



Test Report No.: FS200518N028



TEST REPORT

Applicant	Particle Industries, Inc
Address	126 Post St, 4th floor, San Francisco, CA 94108 USA

Manufacturer or Supplier	Particle Industries, Inc
Address	126 Post St, 4th floor, San Francisco, CA 94108 USA
Product	Tracker SoM LTE M1
Brand Name	Particle
Model	T402M
Additional Model & Model Difference	T404M, See items 2.1 note
Date of tests	May 18, 2020 ~ Jul. 10, 2020

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

- FCC Part 15 Subpart B, Class B (sDoC)
- ICES-003 Issue 6:2019, Class B

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang Senior Project Engineer / EMC Department	Approved by Madison Luo Assistant Manager / EMC Department
	Date: Aug. 14, 2020

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VERITAS**

Test Report No.: FS200518N028

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FS200518N028	Original release	Aug. 14, 2020

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD			
Standard Section	Test Item	Result	Remark
FCC Part 15 Subpart B, Class B (sDoC) ICES-003 Issue 6: 2019, Class B	Radiated Emission Test (9kHz ~ 30MHz)	PASS	Meets limits minimum passing margin is -51.03dB at 2.637MHz
	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets limits minimum passing margin is -18.60dB at 34.486MHz

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Radiated emissions test	9kHz ~ 30MHz	+/- 2.16 dB
	30MHz ~ 1GHz	+/- 3.99 dB



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Tracker SoM LTE M1
MODEL NO.	T402M
ADDITIONAL MODE	T404M
POWER SUPPLY	Li+ PIN: DC +3.3V--4.3V or VBUS PIN: DC +4.35V--5.5V or VIN PIN: DC +3.9V--17V
CABLE SUPPLIED	N/A
THE HIGHEST OPERATING FREQUENCY	108MHz (except wireless function)

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.
3. Please refer to the EUT photo document (Reference No.: 200518N028) for detailed product photo.
4. Additional model T402M is identical with the test model T404M except the model number for marketing purpose.
5. The EUT is wireless module, it no any accessories, the test standard and items were specified by applicant.



2.2 DESCRIPTION OF TEST MODES

The EUT was tested under the following modes. And the worst case was marked in bold and recorded in the report.

FOR ALL TESTS:

Description of Test Mode	Test Voltage
Normal Working	DC3.8V from Som test board V03

Remarks: The Som test board V03 is support units, it power by 3.8V battery.

2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Li-ion Battery	N/A	DC3.8V	N/A	N/A
2	SOM test Board	Particle	V03	38069A-Y411-200421	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1,2	N/A



3 EMISSION TEST

3.1 RADIATED EMISSION MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15 (Section: 15.209)

Radiated Emissions Limits at 3 meters (dBµV/m)	
Frequencies (MHz)	FCC 15
0.009-0.490	128.5-93.8
0.490-1.705	73.8-62.97
1.705-30.0	69.50

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

ICES-003 for below 1GHz (Class A: section 6.2.1 Table 4; Class B: section 6.2.1 Table 5); for above 1GHz (Class A: section 6.2.2 Table 6; Class B: section 6.2.2 Table 7)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 10 meters (dBµV/m)				
Frequencies (MHz)	FCC 15B/ ICES-003, Class A	FCC 15B / ICES-003, Class B	CISPR 22, Class A	CISPR 22, Class B
30-88	39	29.5	40	30
88-216	43.5	33.1		
216-230	46.4	35.6		
230-960			47	37
960-1000	49.5	43.5		

Radiated Emissions Limits at 3 meters (dBµV/m)		
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B
30-88	49.5	40
88-216	54	43.5
216-230	56.9	46
230-960		
960-1000	60	54
1000-3000	Avg: 60	Avg: 54
Above 3000	Peak: 80	Peak: 74



FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

- Note: (1) The lower limit shall apply at the transition frequencies.
(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



3.1.2 TEST INSTRUMENTS

FOR FREQUENCY 9kHz-30MHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Mar. 18,20	Mar. 17,21
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1519B-045	May 28,20	May 27,21
Amplifier	Burgeon	BPA-530	100210	Mar. 15,20	Mar. 14,21
Test Software	ADT	ADT_Radiated V8.7.07	N/A	N/A	N/A

FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU26	100005	May 20,20	May 19, 21
EMI Test Receiver	Rohde&Schwarz	ESR7	101564	Mar. 18,20	Mar. 17,21
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 24, 19	Nov. 23, 20
Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-554	Dec. 01, 19	Nov. 30, 20
Preamplifier	EMCI	EMC1135	980378	Mar. 15,20	Mar. 14,21
Preamplifier	EMCI	EMC1135	980423	Mar. 15,20	Mar. 14,21
10m Semi-anechoic Chamber	CHANGLING	21.4m*12.1m* 8.8m	NSEMC006	Oct. 19,19	Oct. 18,20
Test Software	ADT	ADT_Radiated V8.7.07	N/A	N/A	N/A

- NOTE:** 1. The test was performed in 10m Chamber.
 2. The calibration interval of the above test instruments are 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 749762.

FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	ETS-Lindgren	3117	00085519	Nov. 24, 19	Nov. 23, 20
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170147	Jun. 23,19	Jun. 22,20
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101003	Mar. 18,20	Mar. 17,21
Broadband Preamplifier (1~18GHz)	SCHWARZBECK	BBV9718	266	Apr. 21,20	Apr. 20,21
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Mar. 04,20	Mar. 03,21
Test Software	ADT	ADT_Radiated V8.7.07	N/A	N/A	N/A

- NOTE:** 1. The test was performed in 10m Chamber.
 2. The calibration interval of the above test instruments are 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 749762.

3.1.3 TEST PROCEDURE

< FOR FREQUENCY 9kHz-30MHz >

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was fixed of loop antenna
- c. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 30MHz.

< FOR FREQUENCY 30MHz-1GHz >

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
3. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier).
5. Margin value = Emission level – Limit value.



<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meters Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

NOTE:

1. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz for Average detection (AV) at frequency above 1GHz.
2. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
3. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
4. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) (if the raw value not contains the amplifier);
5. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain(dB) (if the raw value contains the amplifier)
6. Margin value = Emission level – Limit value.

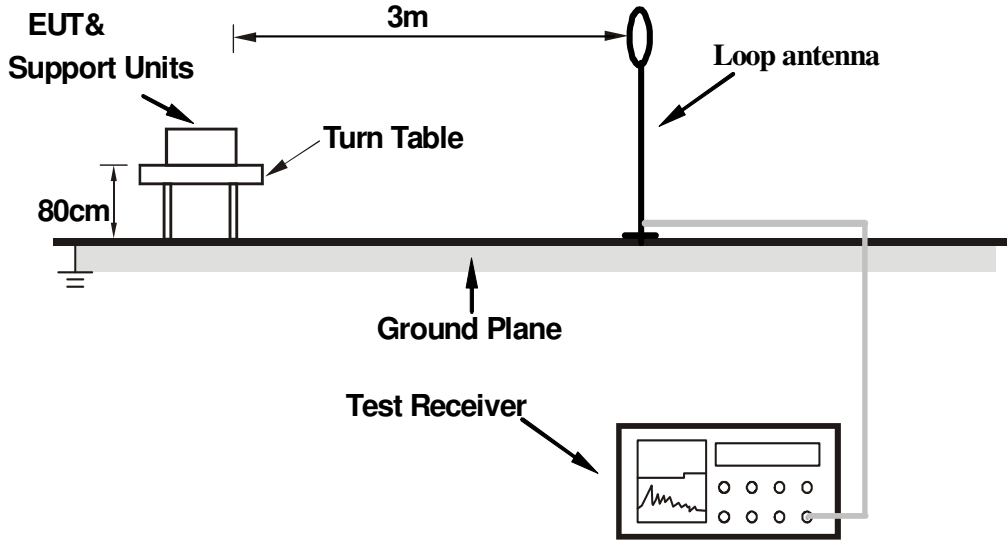
3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

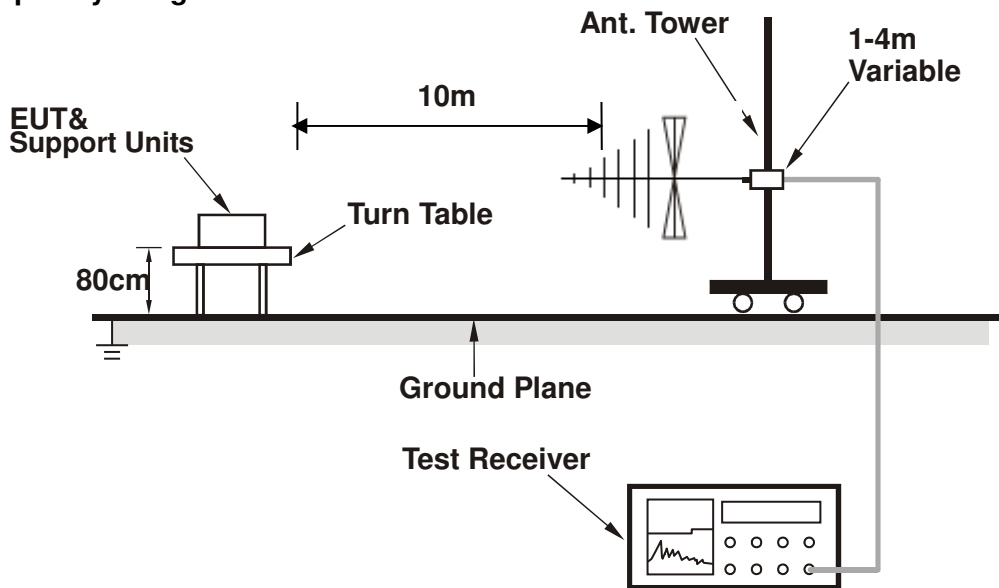


3.1.5 TEST SETUP

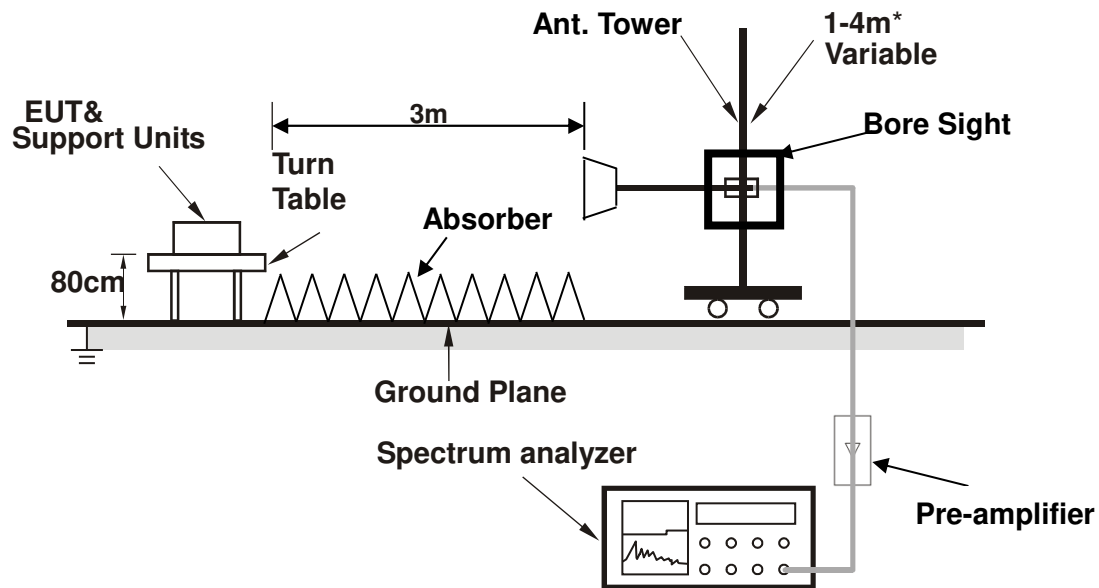
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< Frequency Range 30MHz - 1GHz >



<Frequency Range above 1GHz>



* depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3

3.1.6 EUT OPERATING CONDITIONS

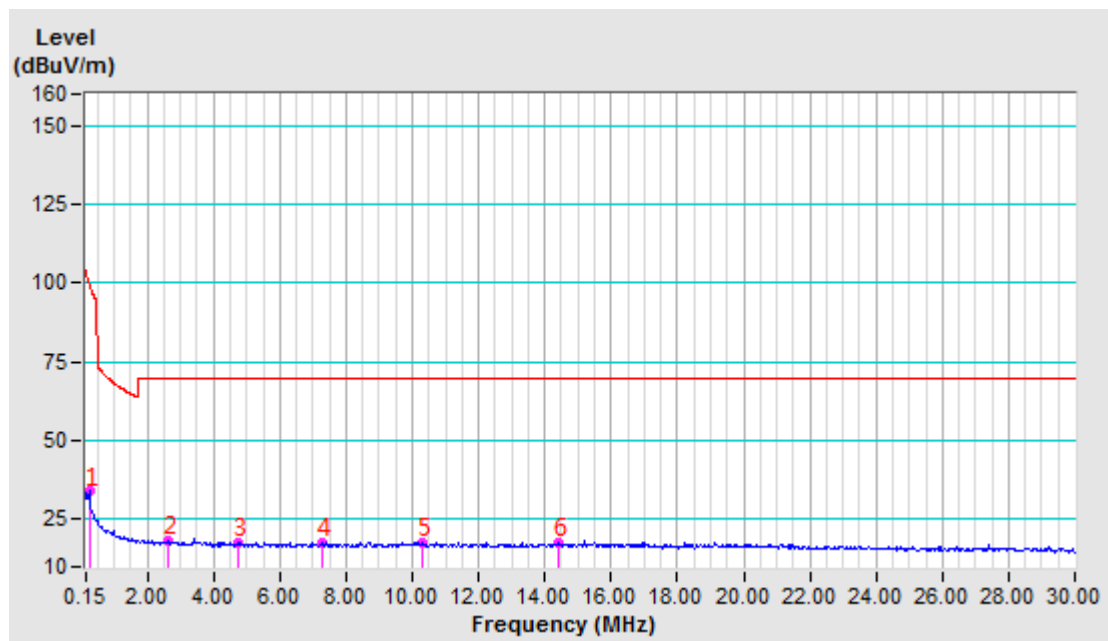
- Turned on the power of all equipment.
- EUT was operated according to the type description in manufacturer's specifications or the User's Manual.

3.1.7 TEST RESULTS

TEST MODE	Normal Working	FREQUENCY RANGE	9 -150kHz
TEST VOLTAGE	DC3.8V from Som test board V03	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 200Hz
ENVIRONMENTAL CONDITIONS	26deg. C, 53% RH	TESTED BY: Kamiko	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.244	-12.20	46.07	33.87	99.85	-65.98	100	311
2	2.637	-12.19	30.70	18.51	69.54	-51.03	100	201
3	4.756	-12.17	29.87	17.70	69.54	-51.84	100	130
4	7.273	-12.13	29.72	17.59	69.54	-51.95	100	82
5	10.301	-11.91	29.62	17.71	69.54	-51.83	100	129
6	14.385	-11.67	29.32	17.65	69.54	-51.89	100	358

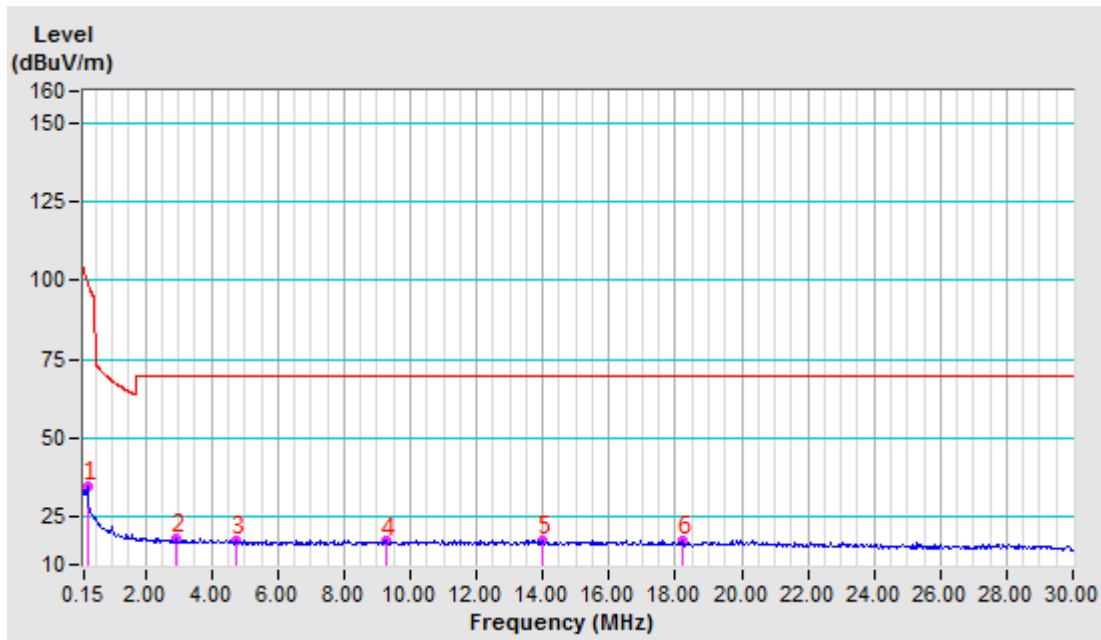
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.009-0.15MHz.
 4. Only emissions significantly above equipment noise floor are reported.



TEST MODE	Normal Working	FREQUENCY RANGE	9 -150kHz
TEST VOLTAGE	DC3.8V from Som test board V03	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 200Hz
ENVIRONMENTAL CONDITIONS	26deg. C, 53% RH	TESTED BY: Kamiko	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.244	-12.20	46.80	34.60	99.85	-65.25	100	220
2	2.952	-12.17	30.45	18.28	69.54	-51.26	100	69
3	4.717	-12.16	30.03	17.87	69.54	-51.67	100	74
4	9.283	-11.98	29.36	17.38	69.54	-52.16	100	230
5	14.000	-11.68	29.34	17.66	69.54	-51.88	100	150
6	18.203	-11.61	29.23	17.62	69.54	-51.92	100	218

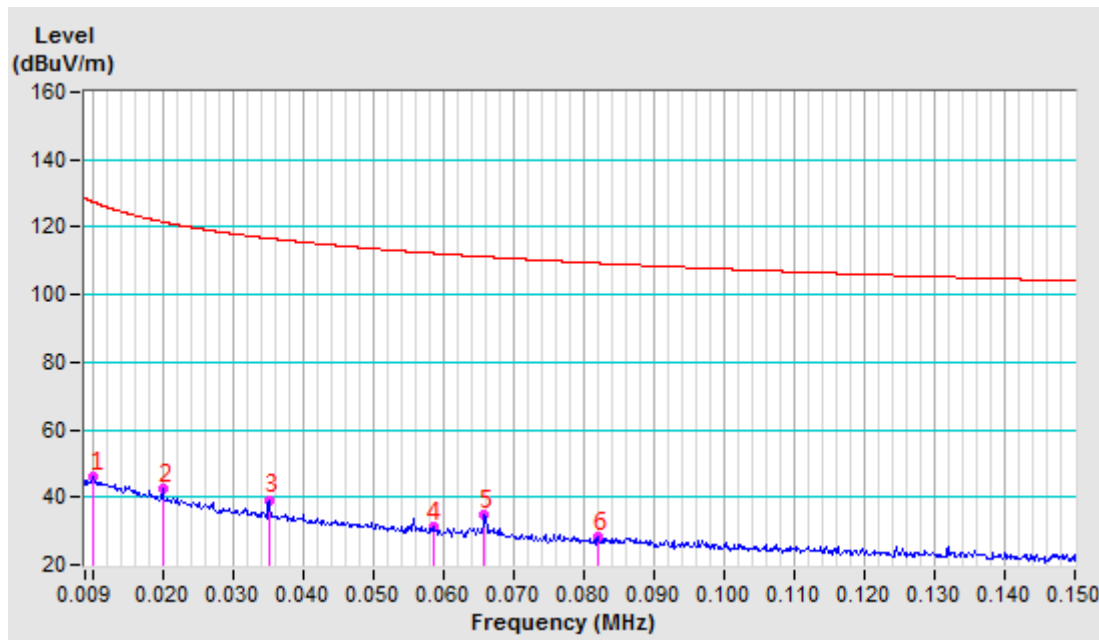
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.009-0.15MHz.
 4. Only emissions significantly above equipment noise floor are reported.



TEST MODE	Normal Working	FREQUENCY RANGE	150kHz-30MHz
TEST VOLTAGE	DC3.8V from Som test board V03	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 200Hz
ENVIRONMENTAL CONDITIONS	26deg. C, 53% RH	TESTED BY: Kamiko	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
No	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.010	-10.19	56.14	45.95	127.39	-81.44	100	109
2	0.020	-10.37	52.72	42.35	121.58	-79.23	100	167
3	0.035	-11.48	50.59	39.11	116.68	-77.57	100	202
4	0.059	-11.73	42.74	31.01	112.25	-81.24	100	152
5	0.066	-11.74	46.32	34.58	111.22	-76.64	100	219
6	0.082	-11.82	39.88	28.06	109.33	-81.27	100	355

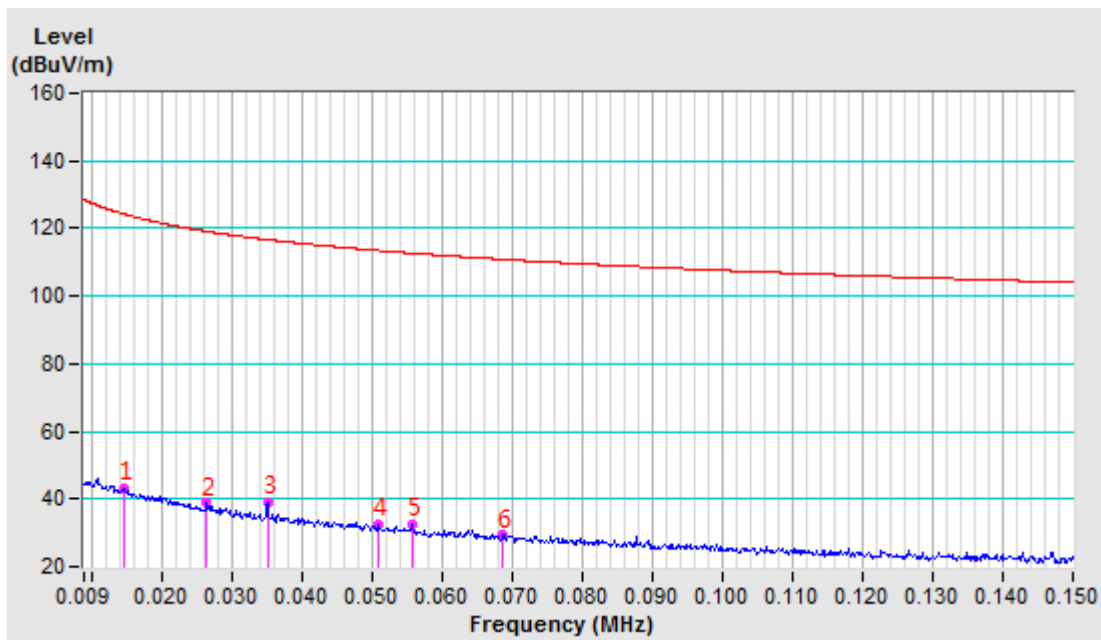
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.15-30MHz.
 4. Only emissions significantly above equipment noise floor are reported.



TEST MODE	Normal Working	FREQUENCY RANGE	150kHz-30MHz
TEST VOLTAGE	DC3.8V from Som test board V03	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 200Hz
ENVIRONMENTAL CONDITIONS	26deg. C, 53% RH	TESTED BY: Kamiko	

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	0.015	-10.27	53.45	43.18	124.21	-81.03	100	11
2	0.026	-11.01	50.00	38.99	119.17	-80.18	100	85
3	0.035	-11.48	50.54	39.06	116.68	-77.62	100	345
4	0.051	-11.70	44.26	32.56	113.44	-80.88	100	36
5	0.056	-11.72	44.24	32.52	112.65	-80.13	100	28
6	0.069	-11.75	41.15	29.40	110.86	-81.46	100	306

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 0.15-30MHz.
 4. Only emissions significantly above equipment noise floor are reported.

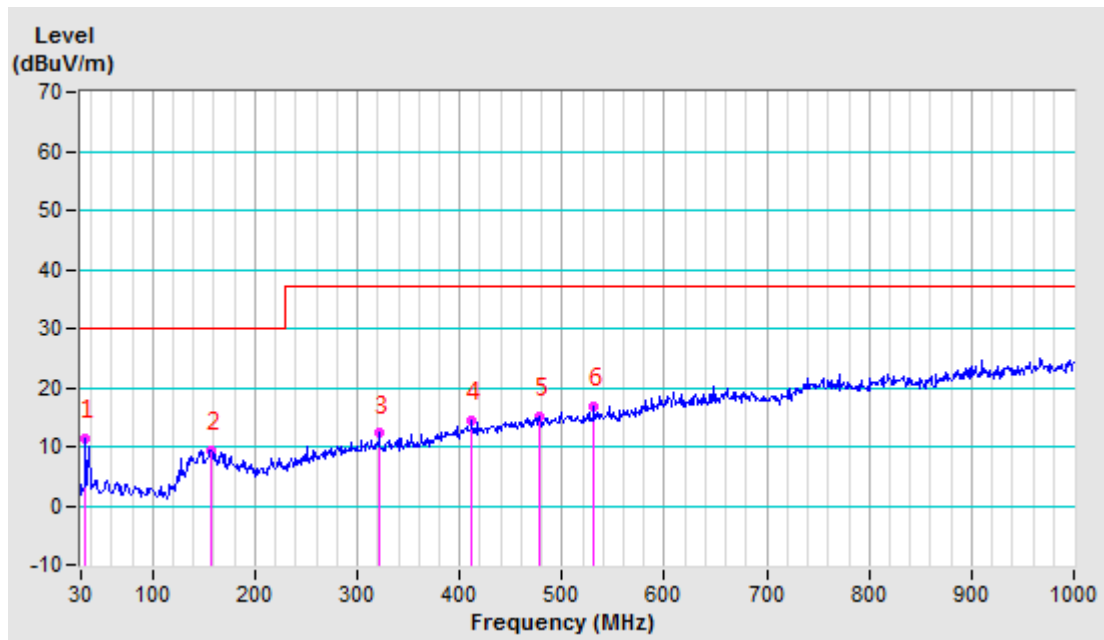




TEST MODE	Normal Working	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC3.8V from Som test board V03	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 53% RH	TESTED BY: Kamiko	

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 10 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	34.486	-25.99	37.39	11.40	30.00	-18.60	400	43
2	157.070	-20.98	30.35	9.37	30.00	-20.63	400	43
3	321.243	-18.94	31.21	12.27	37.00	-24.73	200	14
4	412.059	-16.40	30.89	14.49	37.00	-22.51	400	223
5	477.776	-14.70	29.73	15.03	37.00	-21.97	200	2
6	531.126	-13.89	30.67	16.78	37.00	-20.22	400	91

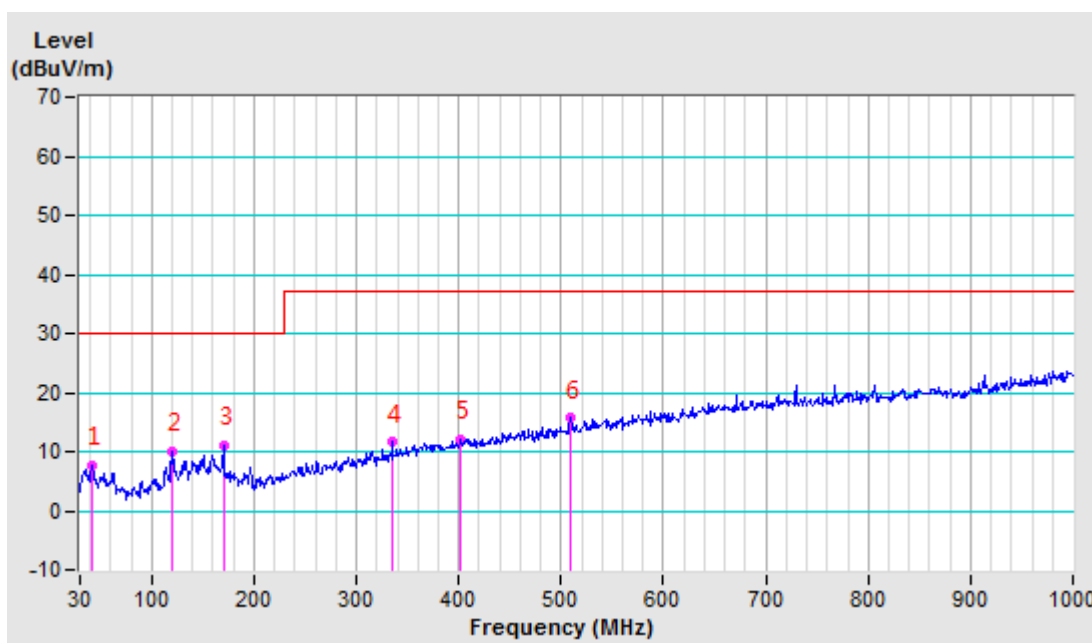
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.



TEST MODE	Normal Working	FREQUENCY RANGE	30-1000MHz
TEST VOLTAGE	DC3.8V from Som test board V03	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	26deg. C, 53% RH	TESTED BY: Kamiko	

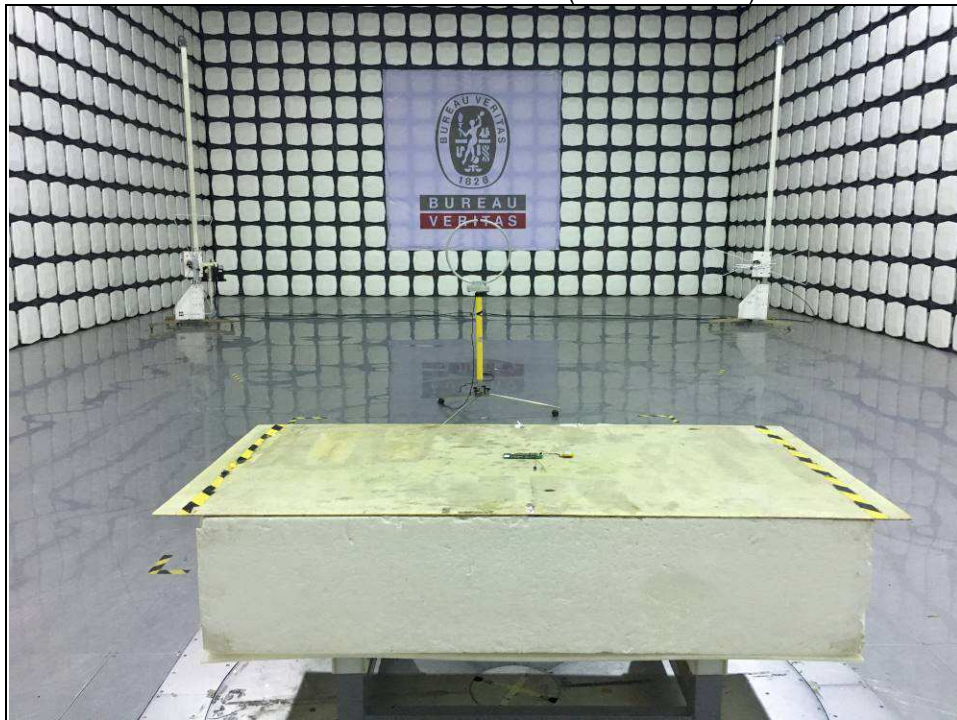
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 10 M								
No.	Freq. (MHz)	Correction Factor (dB/m)	Raw Value (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)
1	41.641	-22.24	29.81	7.57	30.00	-22.43	100	227
2	120.651	-23.42	33.57	10.15	30.00	-19.85	300	358
3	170.221	-21.33	32.39	11.06	30.00	-18.94	100	167
4	335.274	-18.67	30.22	11.55	37.00	-25.45	300	349
5	401.626	-16.85	29.03	12.18	37.00	-24.82	300	124
6	509.156	-14.20	29.86	15.66	37.00	-21.34	300	50

- REMARKS:**
1. Peak detector quick scan is shown on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.

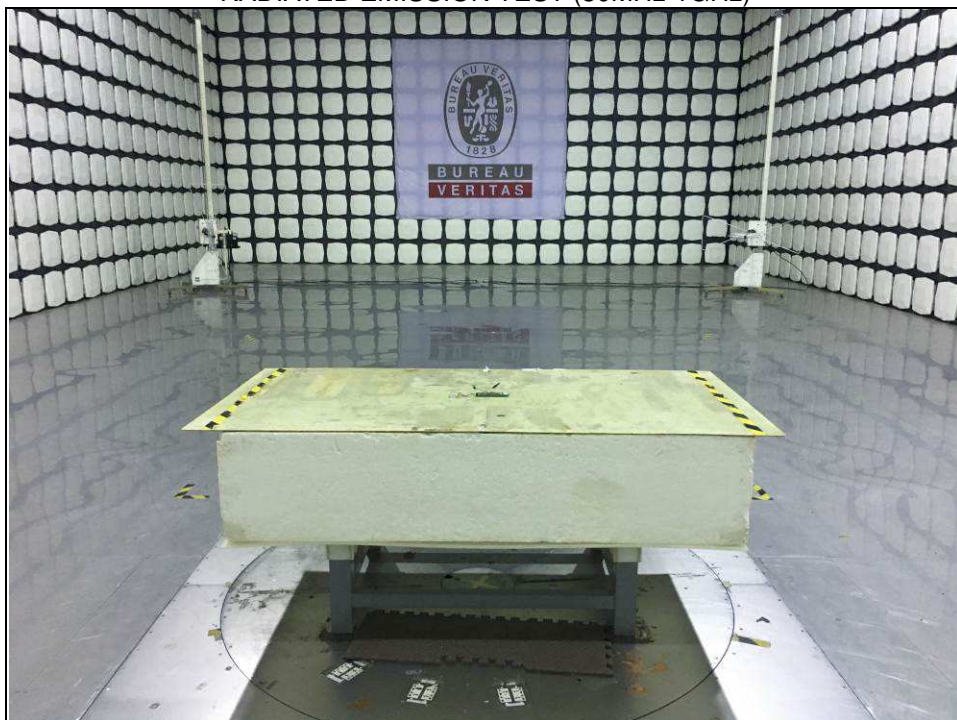


4 PHOTOGRAPHS OF THE TEST CONFIGURATION

RADIATED EMISSION TEST (9KHz - 30MHz)



RADIATED EMISSION TEST (30MHz-1GHz)





**BUREAU
VERITAS**

Test Report No.: FS200518N028

5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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