



RF TEST REPORT

Report No.: SET2019-06393

Product Name: Mobile Computer

FCC ID: UTWXT30WA

IC: 6914A-XT30WA

Model No. : XT30

Applicant: Janam Technologies LLC

Address: 100 Crossways Park West Suite 105 Woodbury, NY 11797

Dates of Testing: 05/01/2019 —05/29/2019

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Lab Location: Building 28/29, East of Shigu Xili Industrial Zone, Nanshan District
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Test Report

Product Name : Mobile Computer

Brand Name : Janam

Trade Name : Janam

Applicant : Janam Technologies LLC

Applicant Address : 100 Crossways Park West Suite 105 Woodbury, NY 11797

Manufacturer : Janam Technologies LLC.

Manufacturer Address : 100 Crossways Park West Suite 105 Woodbury, NY 11797

Test Standards : 47 CFR Part 15 Subpart C
KDB558074 D01 DTS Meas Guidance v05r01
IC RSS-Gen(Issue 5, April 2018)
IC RSS-247(Issue 2, Feb. 2017)

Test Result : PASS

Tested by : Robin Luo 2019.06.04
Robin Luo, Test Engineer

Reviewed by : Chris You 2019.06.04
Chris You, Senior Engineer

Approved by : Shuangwen Zhang 2019.06.04
Shuangwen Zhang, Manager



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Change History		
Issue	Date	Reason for change
1.0	2019.06.04	First edition

1. General Information

1.1. EUT Description

EUT Type	Mobile Computer	
Hardware Version	SQ51FW_MB_P0	
Software Version	SQ51FW_EN_XX_WE_DS_R01_D_190527_02	
Power Level	1	
Frequency Range	Bluetooth LE	2402MHz~2480MHz
Channel Number	Bluetooth LE	40
Bit Rate of Transmitter	Bluetooth LE	1Mbps
Modulation Type	Bluetooth LE	GFSK
Antenna Type	Internal	
Antenna Gain	-1dBi	

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C 2017	Radio Frequency Devices
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	RSS-Gen (Issue 5, April 2018)	General Requirements for Compliance of Radio Apparatus
4	RSS-247 (Issue 2, Feb. 2017)	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section in CFR 47	IC Rules	Description	Result
1	15.203	RSS-247, 5.4	Antenna Requirement	PASS
2	15.247(b)	RSS-247, 5.4	Peak Output Power	PASS
3	15.247(a)	RSS-GEN, 6.7 RSS-247, 5.2	Bandwidth	PASS
4	15.247(d)	RSS-247, 5.5	Conducted Band Edges and Spurious Emission	PASS
5	15.247(e)	RSS-247, 5.2	Power spectral density (PSD)	PASS
6	15.207	RSS-GEN, 8.8	Conducted Emission	PASS
7	15.209 15.247(d)	RSS-247, 5.5	Radiated Band Edges and Spurious Emission	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10-2013.

These RF tests were performed according to the method of measurements prescribed in KDB 558074D01 v05r01.

40 channels are provided for Bluetooth LE

Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450

5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

	Test Items	Modulation	Channel
Bluetooth LE	Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Conducted and Spurious Emission Radiated and Spurious Emission	GFSK	0/20/39
	Band Edge	GFSK	0/39

1.3. Table for Supporting Units

No.	Equipment	Brand Name	Model Name	Manufacturer	Serial No.	Note
1	Notebook	DELL	PP11L	DELL	H5914A03	FCC DOC

1.4. Facilities and Accreditations

1.4.1. Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Designation Number: CN5031, valid time is until December 31, 2019.

ISED Registration: 11185A-1

CAB identifier: CN0064

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Dec. 03, 2019.

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0.

1.4.2. Test Environment Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

2. 47 CFR Part 15C Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

And according to FCC 47 CFR Section 15.247(c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

Antenna Category: Internal antenna

An Internal antenna was soldered to the antenna port of EUT via an adaptor cable, can't be removed.

Antenna General Information:

No.	EUT	Ant. Type	Gain(dBi)
1	Mobile Computer	Internal	-1

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

2.2. Peak Output Power

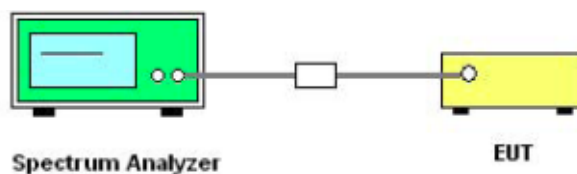
2.2.1. Limit of Peak Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB 558074D01 v05r01.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Use the following spectrum analyzer settings: Span $\geq 3\text{RBW}$;
RBW $\geq \text{DTS bandwidth}$; VBW $\geq 3\text{RBW}$; Sweep = auto; Detector function = peak; Trace = max hold.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Measure the conducted output power and record the results in the test report.

2.2.5. Test Result

Please refer to Appendix A for detail

2.3. 6dB and 99% Occupied Bandwidth

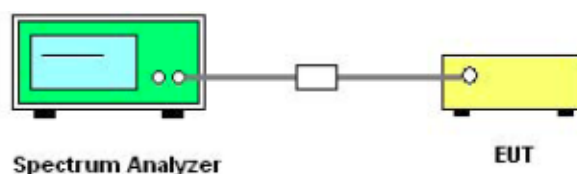
2.3.1. Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows FCC KDB 558074D01 v05r01
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. Measure and record the results in the test report.
6. For %99 Occupy bandwidth measurement, Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 30 kHz. Set the Video bandwidth (VBW) = 100 kHz
7. Measure and record the results in the test report.

2.3.5. Test Results of 6dB and 99% Bandwidth

Please refer to Appendix A for detail

2.4. Conducted Band Edges and Spurious Emissions

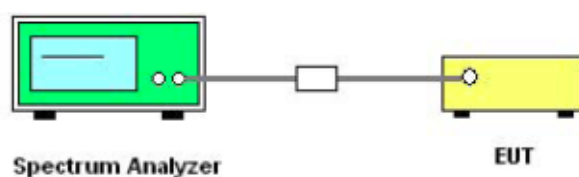
2.4.1. Limit of Conducted Band Edges and Spurious Emissions

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup



2.4.4. Test Procedure

1. The testing follows FCC KDB 558074D01 v05r01.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

2.4.5. Test Results of Conducted Band Edges

Please refer to Appendix A for detail

2.5. Power spectral density (PSD)

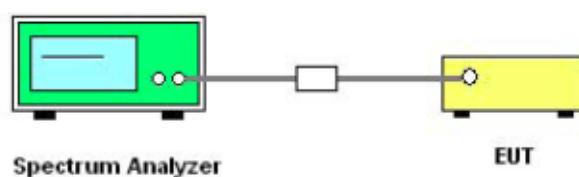
2.5.1. Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedures

1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB 558074D01 v05r01.

2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

3. Set to the maximum power setting and enable the EUT transmit continuously.

4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz.

Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)

5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.

6. Measure and record the results in the test report.

7. The Measured power density (dBm)/ 100kHz is a reference level and used as 20dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

2.5.5. Test Results of Power spectral density

Please refer to Appendix A for detail

2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Note: Wireless charger configuration was evaluated.

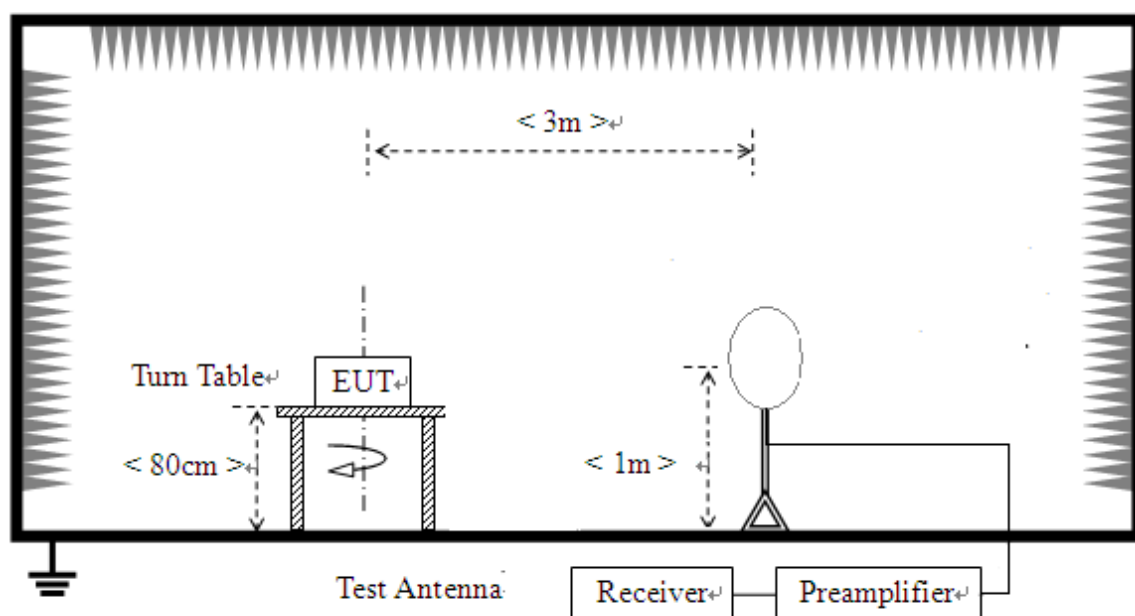
Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

2.6.2. Measuring Instruments

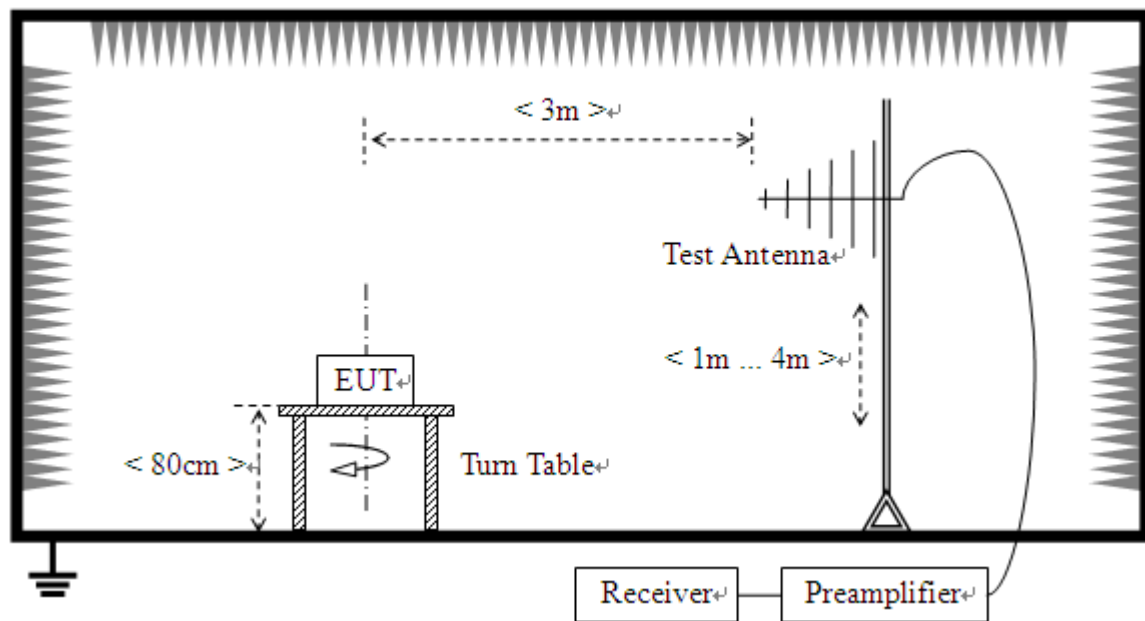
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

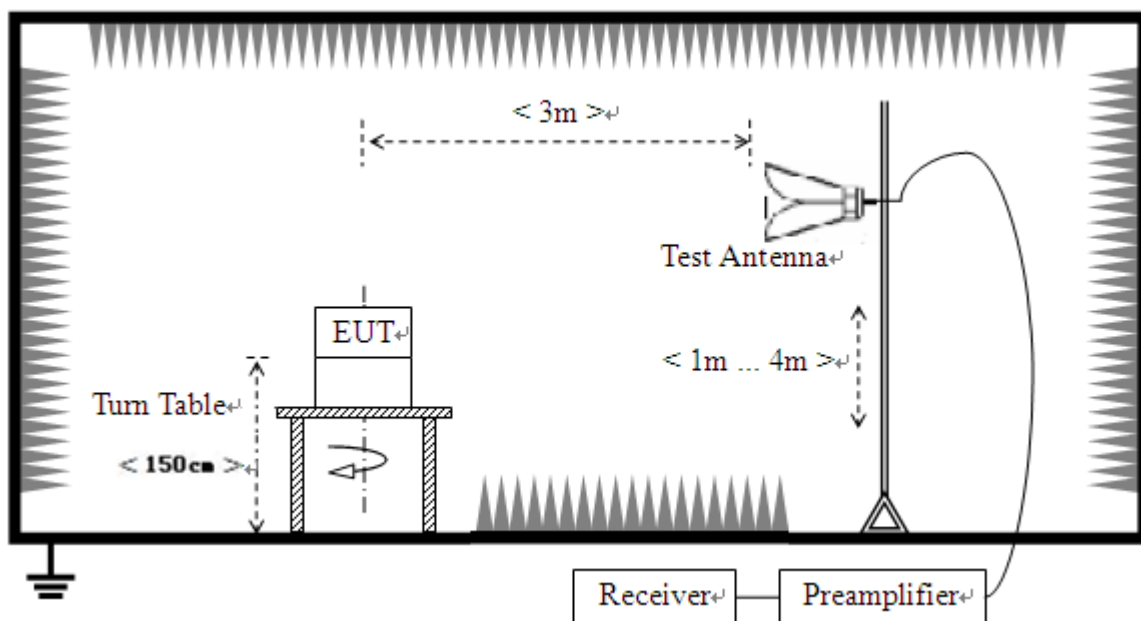
For radiated emissions from 9 KHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on a turntable 0.8m below 1GHz and 1.5m above 1GHz above ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. Height of receiving 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.
4. 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.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported.
Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

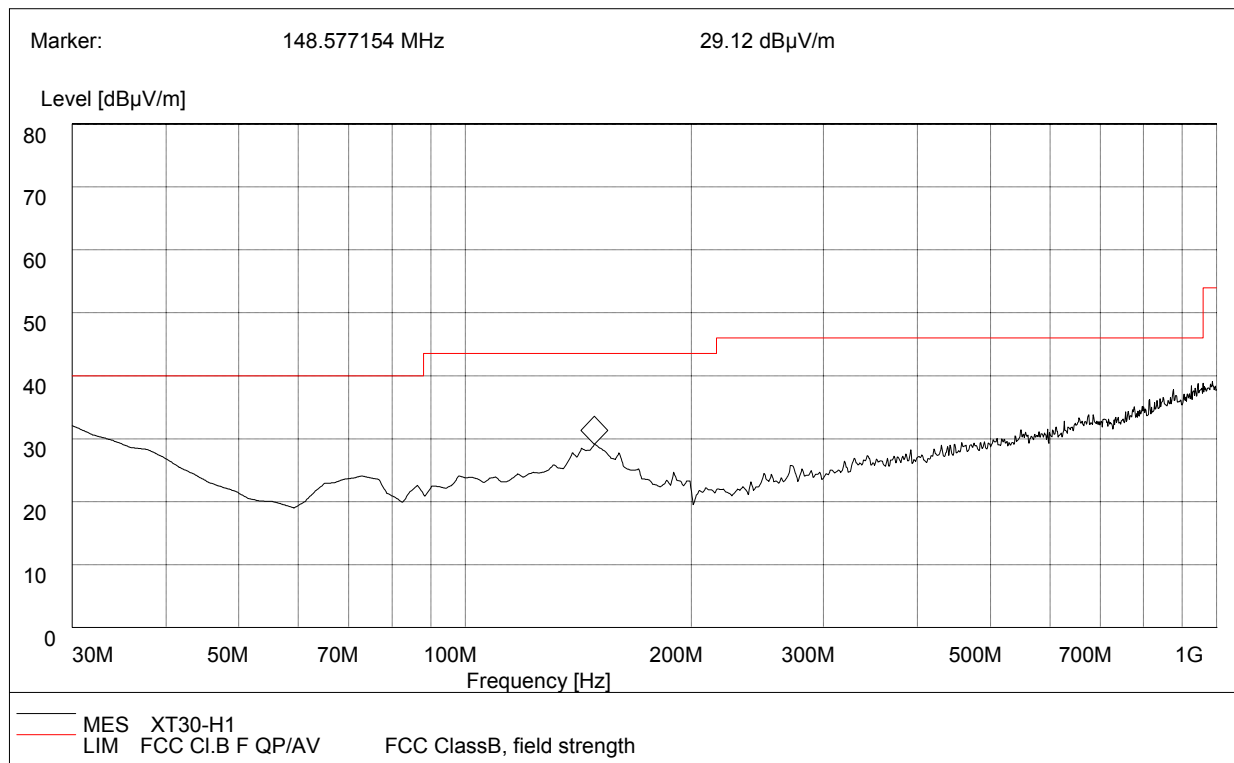
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $> 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

2.6.5. Test Results of Radiated Band Edge and Spurious Emission

For 9KHz to 30MHz

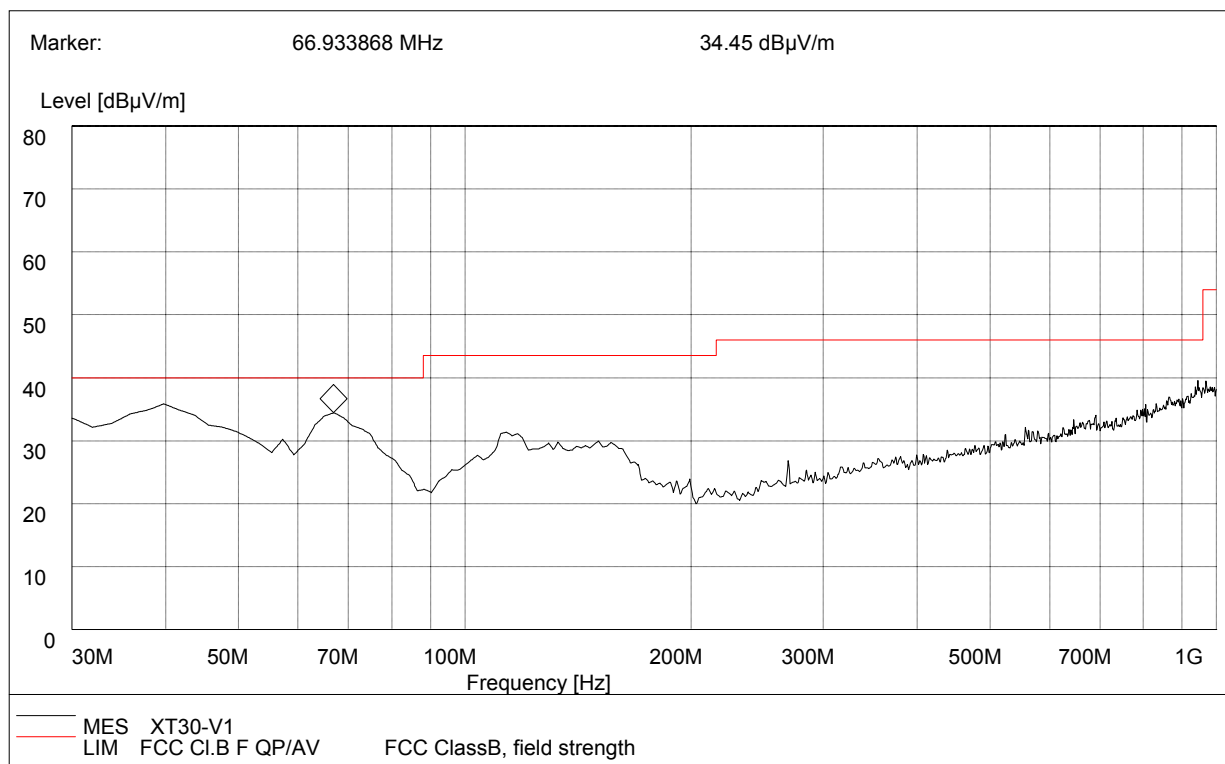
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



Plot A: 30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
148.58	29.12	120.000	100.0	43.5	Horizontal	Pass



Plot B: 30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
69.93	34.45	120.000	100.0	40	Vertical	Pass

For 1GHz to 25GHz
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (0CH_2402MHz)

No.	Fre. (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390	49.98	PK	74.00	-24.02	1.5	180	48.68	5.2	28.60	32.5	1.3
2	2390	39.54	AV	54.00	-14.46	1.5	180	38.24	5.2	28.60	32.5	1.3
3	4804	52.14	PK	74.00	-21.86	1.5	200	45.74	7.4	30.40	31.4	6.4
4	4804	42.08	AV	54.00	-11.92	1.5	200	35.68	7.4	30.40	31.4	6.4
5	7206	54.27	PK	74.00	-19.73	1.5	200	44.97	9.9	31.50	32.1	9.3
6	7206	44.38	AV	54.00	-9.62	1.5	200	35.08	9.9	31.50	32.1	9.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (0CH_2402MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2390	50.67	PK	74.00	-23.33	1.6	320	49.37	5.2	28.60	32.5	1.3
2	2390	40.11	AV	54.00	-13.89	1.6	320	38.81	5.2	28.60	32.5	1.3
3	4804	52.31	PK	74.00	-21.69	1.6	320	45.91	7.4	30.40	31.4	6.4
4	4804	42.14	AV	54.00	-11.86	1.6	320	35.74	7.4	30.40	31.4	6.4
5	7206	53.36	PK	74.00	-20.64	1.6	320	44.06	9.9	31.50	32.1	9.3
6	7206	43.04	AV	54.00	-10.96	1.6	320	33.74	9.9	31.50	32.1	9.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (19CH_2440MHz)

No.	Fre. (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4880	53.24	PK	74.00	-20.76	1.5	120	46.84	6.7	31.20	31.5	6.4
2	4880	43.17	AV	54.00	-10.83	1.5	120	36.77	6.7	31.20	31.5	6.4
3	7320	54.29	PK	74.00	-19.71	1.5	120	47.89	6.7	31.20	31.5	6.4
4	7320	44.32	AV	54.00	-9.68	1.5	120	37.92	6.7	31.20	31.5	6.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (19CH_2440MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	4880	52.24	PK	74.00	-21.76	1.8	240	45.84	6.7	31.20	31.5	6.4
2	4880	42.18	AV	54.00	-11.82	1.8	240	35.78	6.7	31.20	31.5	6.4
3	7320	53.00	PK	74.00	-21	1.8	240	46.6	6.7	31.20	31.5	6.4
4	7320	42.85	AV	54.00	-11.15	1.8	240	36.45	6.7	31.20	31.5	6.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (39CH_2480MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.5	50.32	PK	74.00	-23.68	1.5	230	46.92	5.7	29.50	31.8	3.4
2	2483.5	40.10	AV	54.00	-13.9	1.5	230	36.7	5.7	29.50	31.8	3.4
3	4960	52.47	PK	74.00	-21.53	1.5	260	46.92	7	30.05	31.5	5.55
4	4960	42.29	AV	54.00	-11.71	1.5	260	36.74	7	30.05	31.5	5.55
5	7440	23.39	PK	74.00	-50.61	1.5	260	8.19	16	31.20	32	15.2
6	7440	13.14	AV	54.00	-40.86	1.5	260	-2.06	16	31.20	32	15.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (39CH_2480MHz)

No.	Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Cab. Loss (dB)	Ant. Factor (dB)	Pre. Amp. (dB)	Cor. Factor (dB/m)
1	2483.5	50.77	PK	74.00	-23.23	1.8	220	47.37	5.7	29.50	31.8	3.4
2	2483.5	40.62	AV	54.00	-13.38	1.8	220	37.22	5.7	29.50	31.8	3.4
3	4960	51.18	PK	74.00	-22.82	1.8	220	45.63	7	30.05	31.5	5.55
4	4960	40.98	AV	54.00	-13.02	1.8	220	35.43	7	30.05	31.5	5.55
5	7440	53.19	PK	74.00	-20.81	1.8	220	37.99	16	31.20	32	15.2
6	7440	43.01	AV	54.00	-10.99	1.8	220	27.81	16	31.20	32	15.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
- Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level - Limit value
5. " * ": Fundamental frequency.

2.7. Conducted Emission

2.7.1. Limit of Conducted Emission

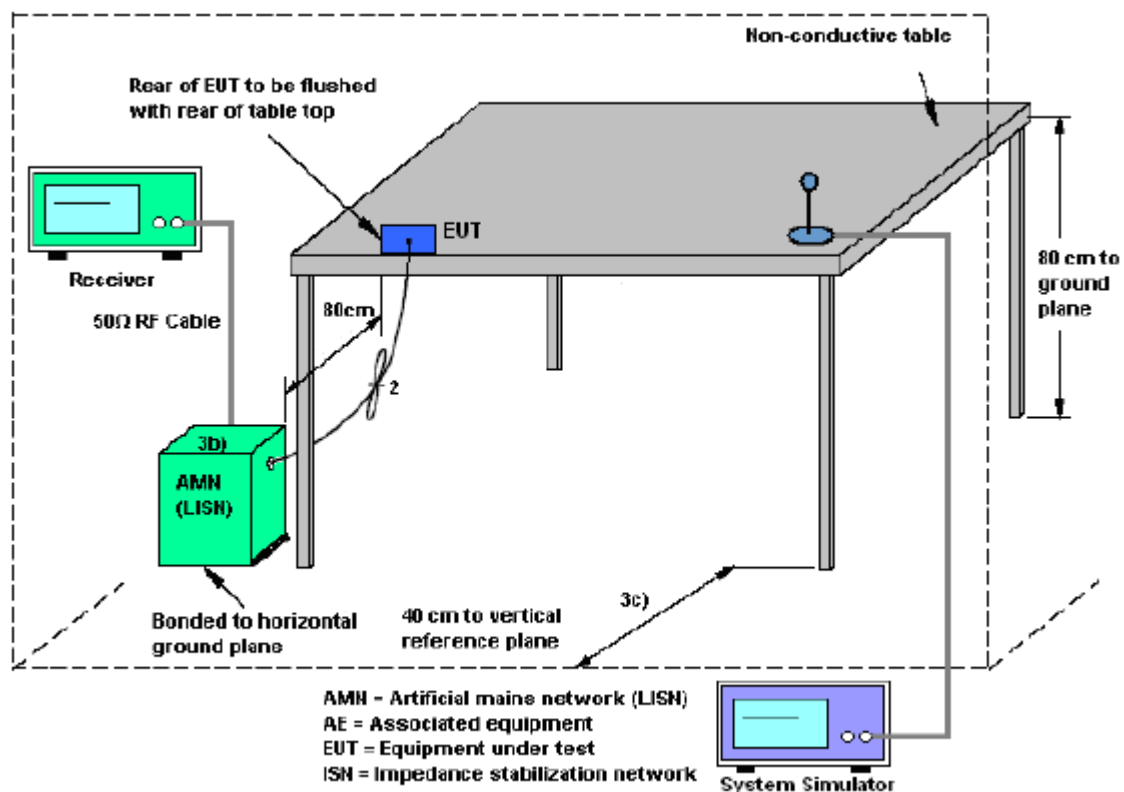
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup



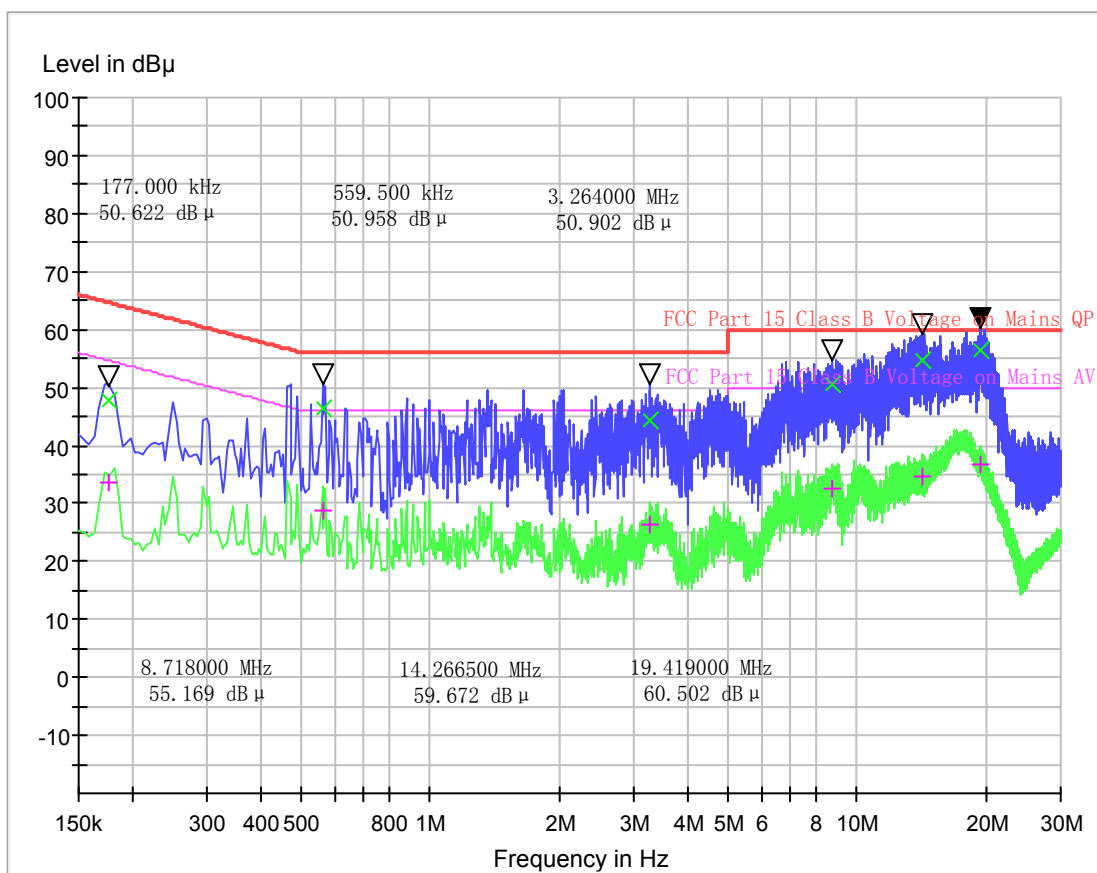
2.7.4. Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

2.7.5. Test Result

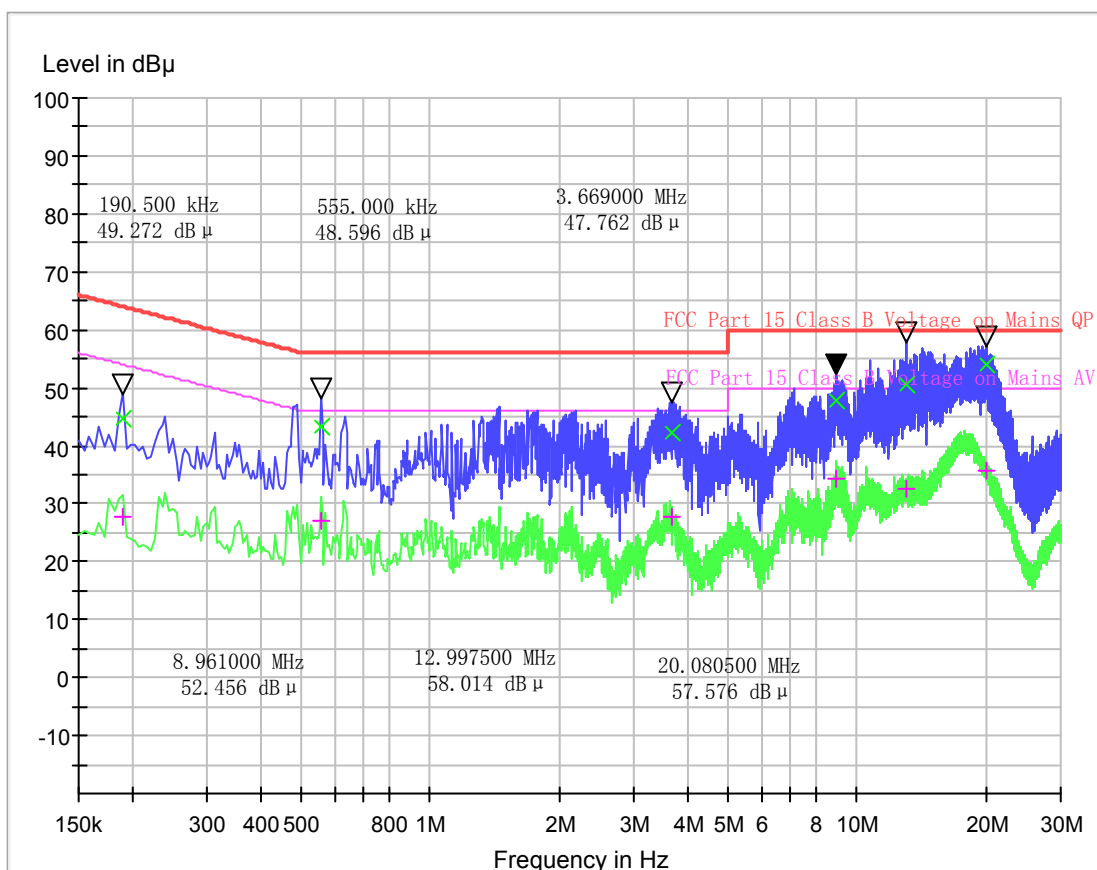
The EUT configuration of the emission tests is Bluetooth Link + USB Cable (Charging from Adapter)

Note: the test plot of below Conducted Emission only show the PK value, the QP, AV value please see the table.



(Plot A: L Phase)

Conducted Disturbance at Mains Terminals							
L Test Data							
QP				AV			
Fre. (MHz)	Limits (dBμV)	Mea. Value (dBμV)	Margin (dB)	Fre. (MHz)	Limits (dBμV)	Mea. Value (dBμV)	Margin (dB)
0.1770	64.6	47.64	16.96	0.1770	54.6	33.46	21.14
0.5595	56.0	46.30	9.7	0.5595	46.0	28.75	17.25
3.2640	56.0	44.41	11.59	3.2640	46.0	26.33	19.67
8.7180	60.0	50.53	9.47	8.7180	50.0	32.73	17.27
14.2665	60.0	54.84	5.16	14.2665	50.0	34.67	15.33
19.4190	60.0	56.43	3.57	19.4190	50.0	36.88	13.12



(Plot B: N Phase)

Conducted Disturbance at Mains Terminals							
N Test Data							
QP				AV			
Fre. (MHz)	Limits (dB μ V)	Mea. Value (dB μ V)	Margin (dB)	Fre. (MHz)	Limits (dB μ V)	Mea. Value (dB μ V)	Margin (dB)
0.1905	64.0	44.51	19.49	0.1905	54.0	27.66	26.34
0.5550	56.0	43.34	12.66	0.5550	46.0	26.92	19.08
3.6690	56.0	42.18	13.82	3.6690	46.0	27.58	18.42
8.9610	60.0	47.87	12.13	8.9610	50.0	34.19	15.81
12.9975	60.0	50.48	9.52	12.9975	50.0	32.52	17.48
20.0805	60.0	54.04	5.96	20.0805	50.0	35.69	14.31

Test Result: PASS

3. List of measuring equipment

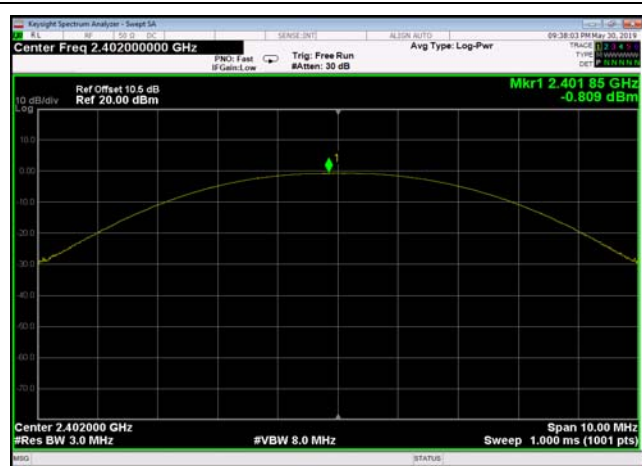
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI TEST RECEIVER	R&S	ESW26	A180502935	2018.11.1	2019.10.31
2	TURNTABLE	ETS	2088	2149	N/A	N/A
3	ANTENNA MAST	ETS	2075	2346	N/A	N/A
4	EMI TEST Software	R&S	ESK1	N/A	N/A	N/A
5	Horn antenna (18GHz~26.5GHz)	AR	AT4002A	305753	2017.11.10	2020.11.09
6	Amplifier	MILMEGA	80RF1000-250	A140901925	2017.10.09	2020.10.08
7	JS amplifier	AR	25S1G4AM1	A0304248	2017.10.09	2020.10.08
8	High pass filter	Compliance Direction systems	BSU-6	34202	2018.11.11	2019.11.10
9	Horn Antenna	ShwarzBeck	9120D	1012	2018.11.11	2019.11.10
10	Horn Antenna	ShwarzBeck	BBHA9170	25841	2018.11.11	2019.11.10
11	ULTRA-BROADB AND ANTENNA	R&S	HL562	A0304224	2017.07.14	2020.07.13
12	Passive Loop Antenna	R&S	HFH2-Z2	100047	2019.04.26	2022.04.25
13	Temperature chamber	Dongguan gaoda instrument CO.LTD	GD-7005-100	130130101	2019.04.22	2020.04.21
14	Spectrum Analyzer	Keysight	N9030A	A160702554	2018.11.15	2019.11.14
15	Power Supply	R&S	NGMO1	101037	2018.08.06	2019.08.05

Appendix A

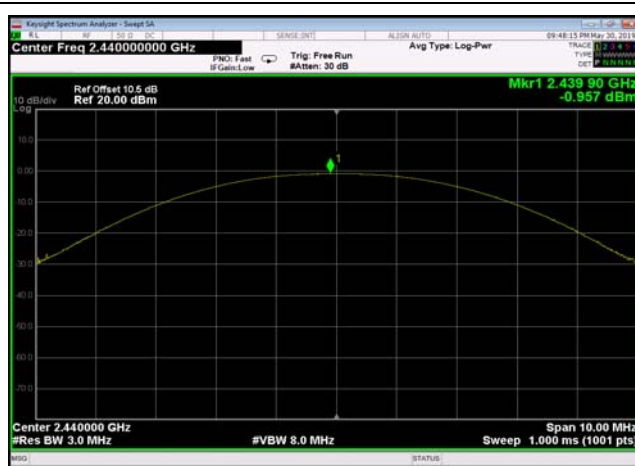
Peak Output Power Test Result and Data

Test Frequency	Power(dBm)	Limit(dBm)	Result
2402	-0.809	30	Pass
2440	-0.957		Pass
2480	-2.092		Pass

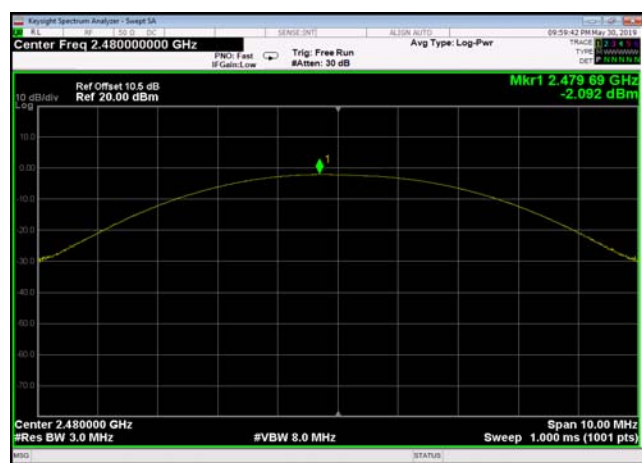
Output Power: 2402MHz



Output Power: 2440MHz



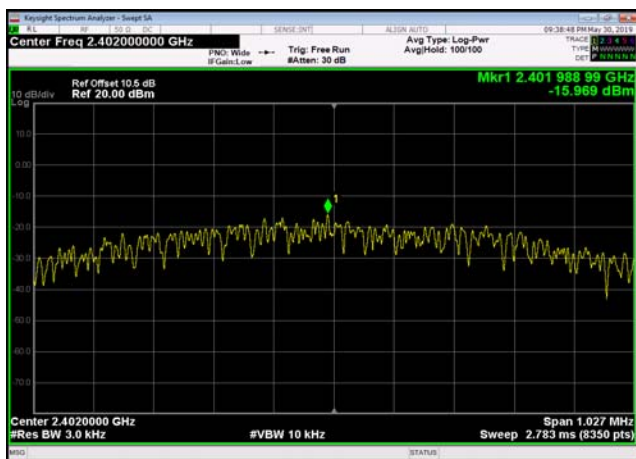
Output Power: 2480MHz



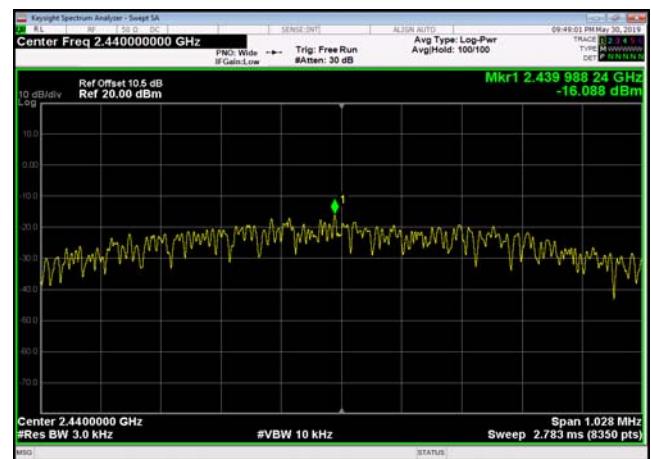
Power Spectral Density Test Result and Data

Test Frequency	PSD(dBm/3KHz)	Limit(dBm/3KHz)	Result
2402	-15.969	8	Pass
2440	-16.088		Pass
2480	-17.433		Pass

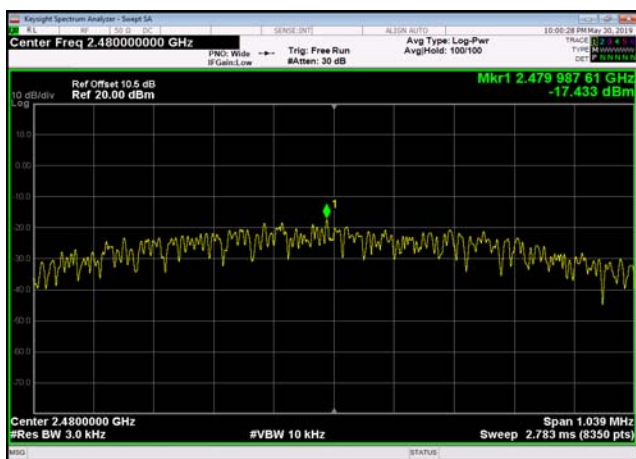
Power spectral density: 2402MHz



Power spectral density: 2440MHz



Power spectral density: 2480MHz



6dB and 99% Occupied BandWidth Test Result and Data

Test Frequency	6dB Occupy Bandwidth(KHz)	Min Limit(kHz)	Result
2402	684.88	500	Pass
2440	685.417		Pass
2480	692.832		Pass

Test Frequency	99% Occupy Bandwidth(KHz)	Result
2402	1.058	Report only
2440	1.058	
2480	1.061	

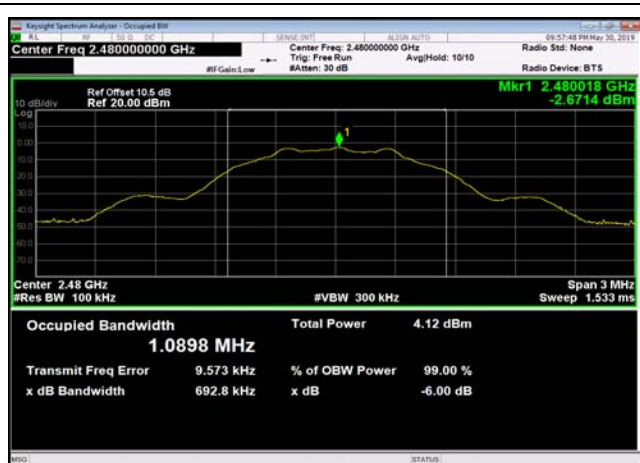
6dB Bandwidth: 2402MHz



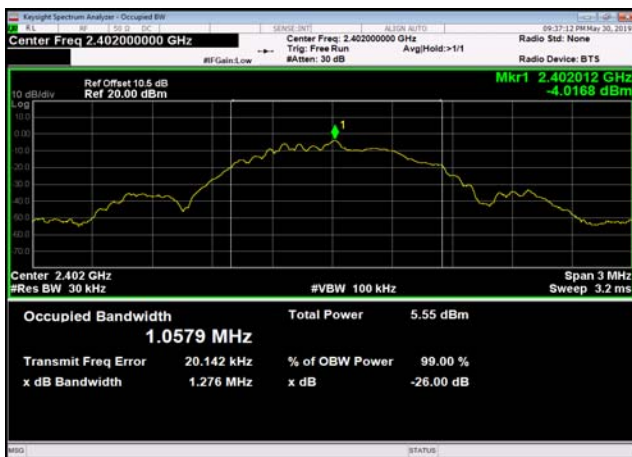
6dB Bandwidth: 2440MHz



6dB Bandwidth: 2480MHz



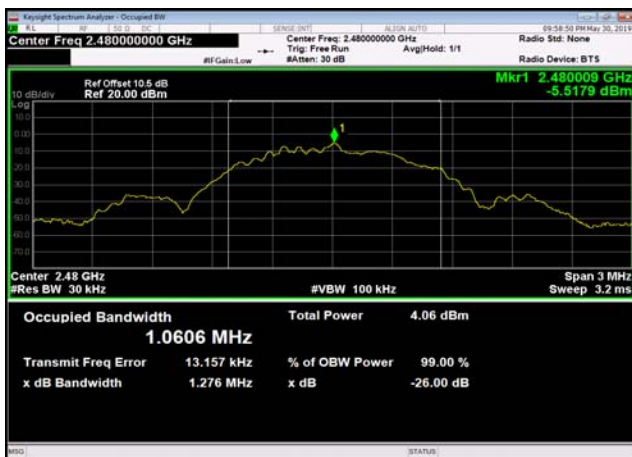
99% Bandwidth: 2402MHz



99% Bandwidth: 2440MHz



99% Bandwidth: 2480MHz



Conducted Band Edges and Spurious Emissions Test Result and Data

,Plot ,1Transmitter Spurious Emission
: 2402,Reference Level



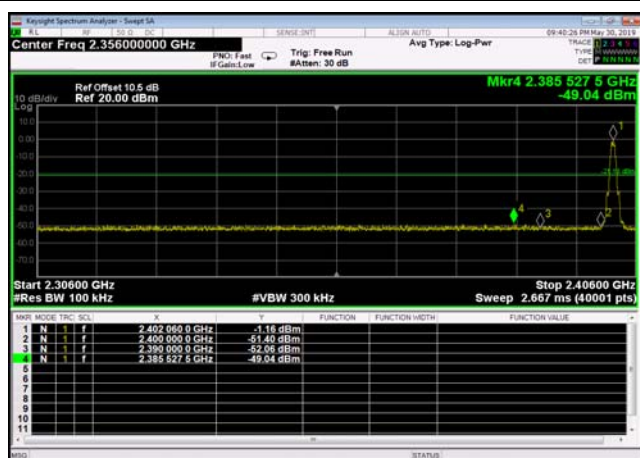
,Plot ,1Transmitter Spurious Emission
: 2440,Reference Level



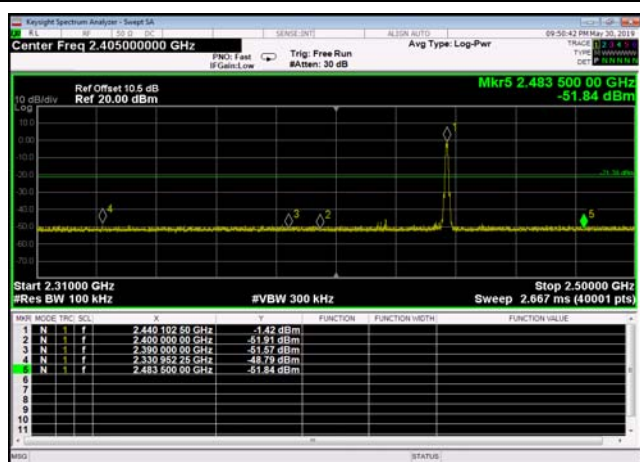
,Plot ,1Transmitter Spurious Emission
: 2480,Reference Level



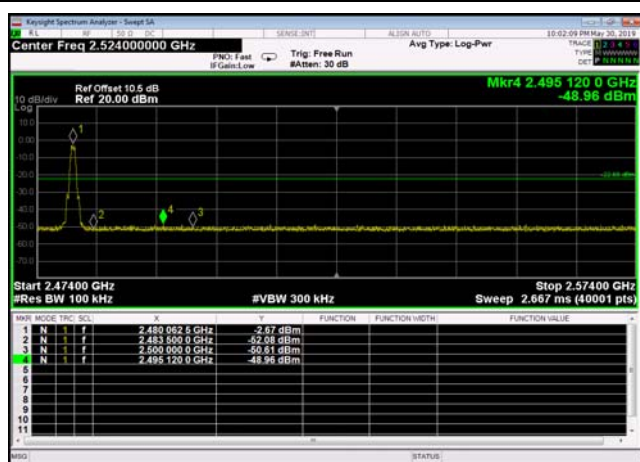
,Plot ,2Conducted Emission: 2402
,Band Edge



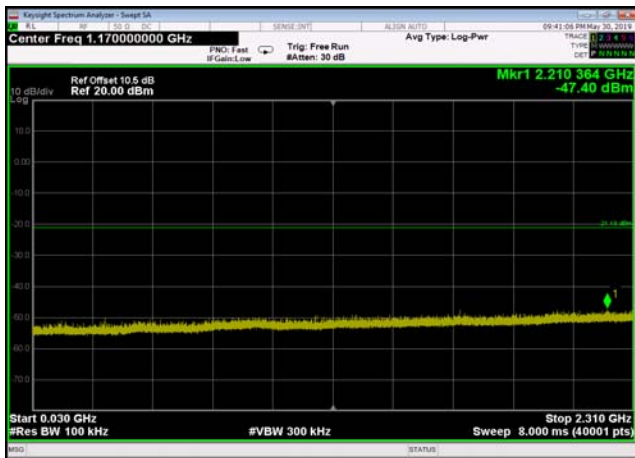
,Plot ,2Conducted Emission: 2440
,Band Edge



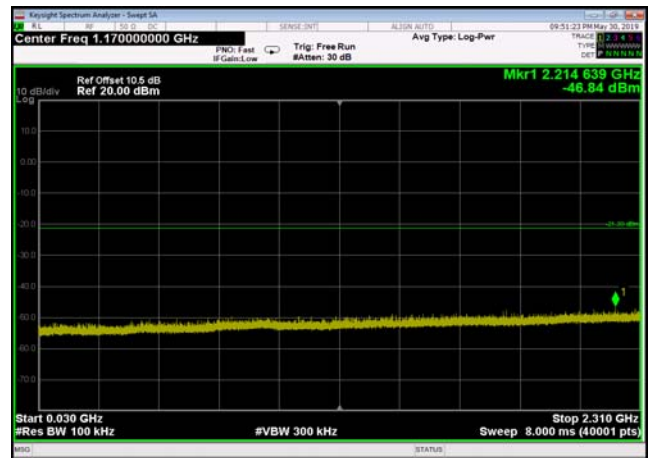
,Plot ,2Conducted Emission: 2480
,Band Edge



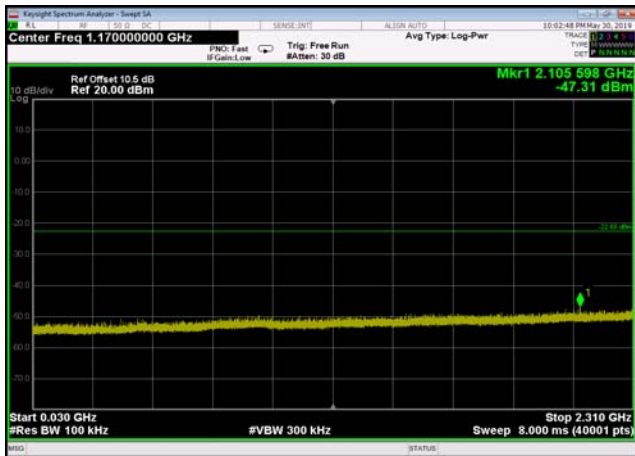
,Plot ,3Transmitter Spurious Emission
: 2402,30MHz~2310MHz



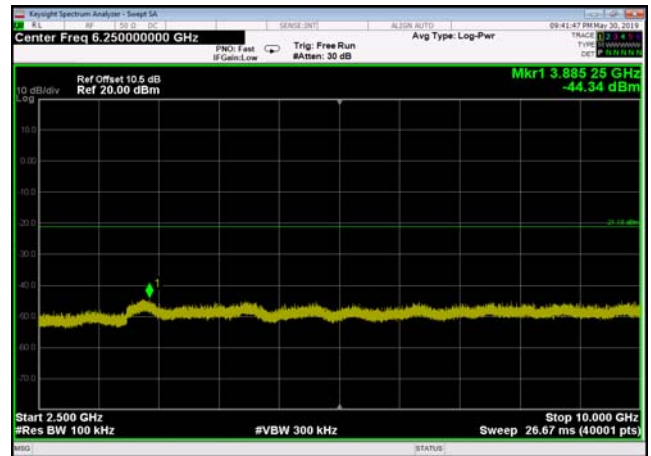
,Plot ,3Transmitter Spurious Emission
: 2440,30MHz~2310MHz



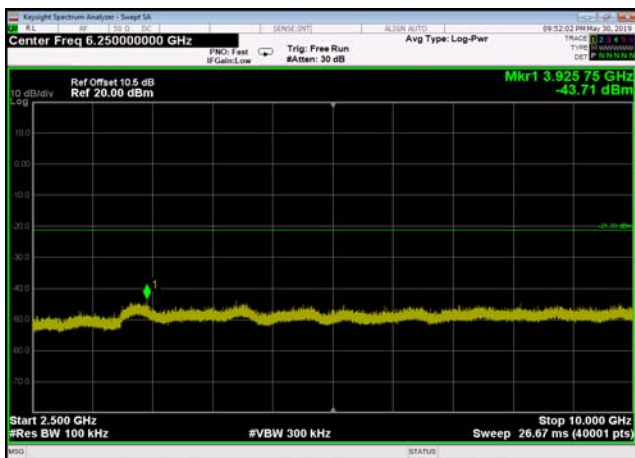
,Plot ,3Transmitter Spurious Emission
: 2480,30MHz~2310MHz



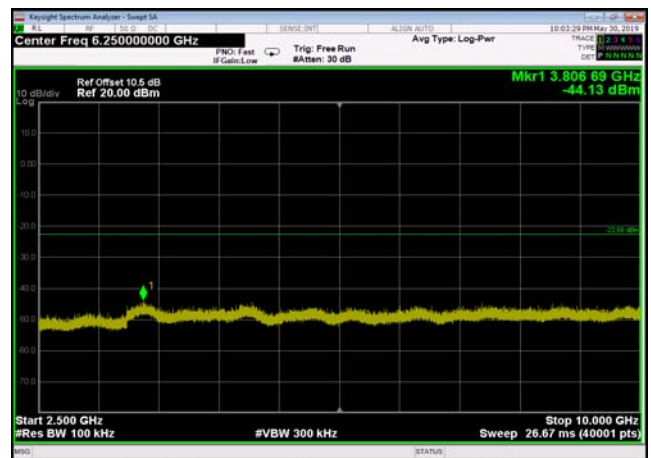
,Plot ,4Transmitter Spurious Emission
: 2402,2500MHz~10000MHz



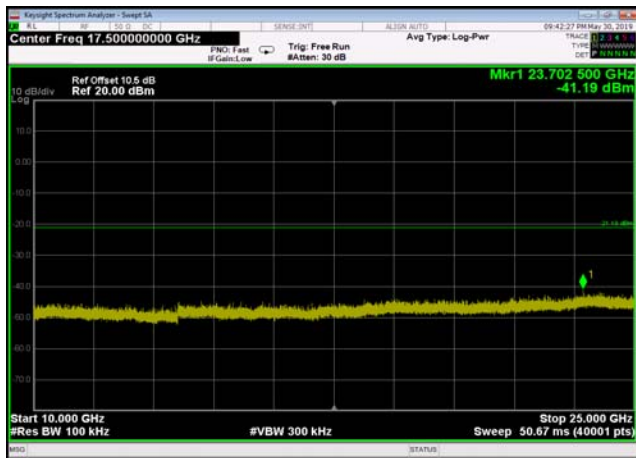
,Plot ,4Transmitter Spurious Emission
: 2440,2500MHz~10000MHz



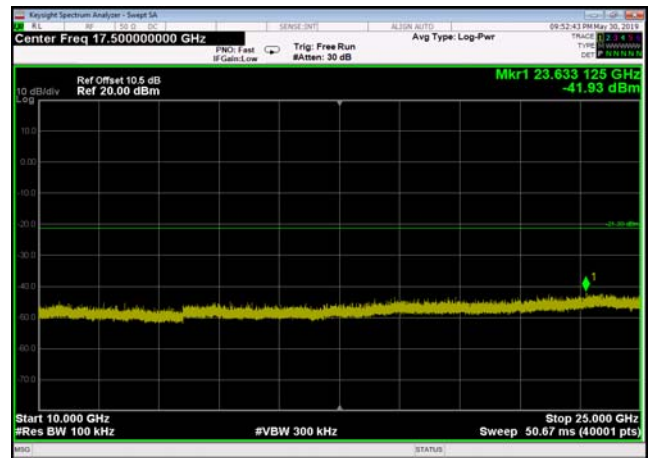
,Plot ,4Transmitter Spurious Emission
: 2480,2500MHz~10000MHz



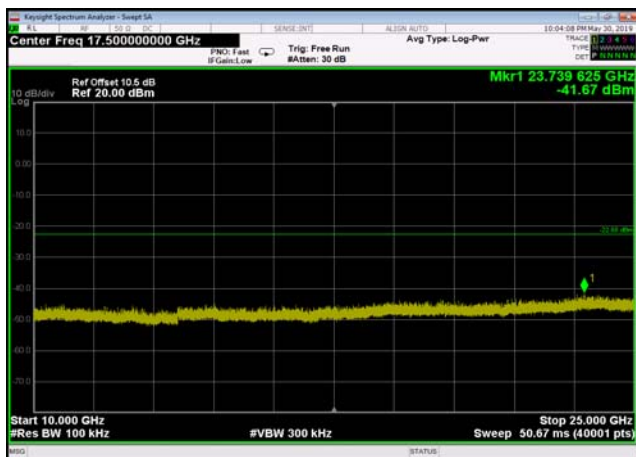
,Plot ,5Transmitter Spurious Emission
: 2402,10000MHz~25000MHz



,Plot ,5Transmitter Spurious Emission
: 2440,10000MHz~25000MHz



,Plot ,5Transmitter Spurious Emission
: 2480,10000MHz~25000MHz



** END OF REPORT **