

 MOTOROLA SOLUTIONS	    CERTIFICATE 2518.08 SAMM 825																														
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia Sdn. Bhd. Plot 2A Medan Bayan Lepas, Mukim 12, S.W.D. 11900 Bayan Lepas, Penang, Malaysia.	FCC / ISED TEST REPORT Report Revision : Rev.B																														
<table><tr><td>Date/s Tested</td><td>: 15-Aug-23 - 30-Aug-2023</td></tr><tr><td>Report Issue Date</td><td>: 29-Sept-2023</td></tr><tr><td>Manufacturer/Location</td><td>: Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: SZE KEAT NG</td></tr><tr><td>Product Type</td><td>: Hand-held</td></tr><tr><td>Product Version (PMN)</td><td>: T803</td></tr><tr><td>Model Number (HVIN)</td><td>: T803</td></tr><tr><td>Frequency Band</td><td>: 2.402 - 2.480 GHz</td></tr><tr><td>Max RF Output Power</td><td>: 5 mWatts</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>ISED Registrations</td><td>: MY0001</td></tr><tr><td>Firmware Version (FVIN)</td><td>: NA004</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(2.4GHz BT LE) 47 CFR Part 15C ISED RSS 247 Issue 2</td><td>PASS</td></tr></table>		Date/s Tested	: 15-Aug-23 - 30-Aug-2023	Report Issue Date	: 29-Sept-2023	Manufacturer/Location	: Motorola Solutions Malaysia Sdn Bhd Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	Requestor	: SZE KEAT NG	Product Type	: Hand-held	Product Version (PMN)	: T803	Model Number (HVIN)	: T803	Frequency Band	: 2.402 - 2.480 GHz	Max RF Output Power	: 5 mWatts	Applicant Name	: Motorola Solutions Inc	Applicant Address	: 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322	FCC Registrations	: 461337	ISED Registrations	: MY0001	Firmware Version (FVIN)	: NA004	(2.4GHz BT LE) 47 CFR Part 15C ISED RSS 247 Issue 2	PASS
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Prepared By: <i>hidayati</i> SITI NURHIDAYATI BINTI ABDUL HALIM Test Personnel	Approved Signatory: <i>MAHESHVARAN A/L RAJAGOPAL</i> MAHESHVARAN A/L RAJAGOPAL Responsible Engineer																														

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REVISION HISTORY

Revision History	Description	Date	Originator
Rev. A	Initial Report	15-Sept-2023	Siti Nurhidayati
Rev. B	Update 6.2.1 Conducted RF Output Power Test Setup and FVIN information	29-September-2023	Siti Nurhidayati

1.0 General Information

EUT Description:

Technologies	2.4GHz BT LE
TX Frequency range	2402MHz – 2480MHz
Modulation Type	GFSK
Connector type	PROGRAMMING, TEST & ALIGNMENT CABLE
Antenna type	Bluetooth Inverted-L Antenna 2400-2500 MHz

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
CABLE,USB-C CABLE CHARGING ONLY - (I CABLE)	MOTOROLA	PMKN4296A
800MAH 3XAA NIMH RECHARGEABLE BATTERY PACK	MOTOROLA	PMNN4477A
1300MAH 3XAA NIMH RECHARGEABLE BATTERY PACK	MOTOROLA	1532
Dual charger tray included with USB-C Connector	MOTOROLA	PMLN8588A

Channel number and frequency information:

40 channels are provided to this EUT:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

FCC 47 CFR Part 15 Subpart C
KDB 558074 D01 15.247 Meas Guidance v05
ANSI C63.10-2013

Deviation from standard

Not applicable as no deviation from standard test method

Modifications to EUT

For RF conducted measurements a pigtail was soldered out of the board while for radiated measurements there were no modifications to the device

2.0 Summary of Test Results

FCC Clause	ISED Clause	Test Item	Result	Remark	Serial number tested	Tested by
15.247 (a)(2)	RSS 247 5.2 (a)	DTS & 99% Channel Bandwidth	Pass	Highest 99% OCB: BTLE 1M: 1.151MHz (1M15F1D)	17520ZN0364	Hidayati
15.247 (b)(3)	RSS 247 5.4 (d)	Conducted RF Output Power (Peak)	Pass	Highest output power: 6.819 dBm (4.81 mW)	17520ZN0364	Hidayati
15.247(e)	RSS 247 5.2 (b)	Maximum Peak Power Spectral Density	Pass	Meet the limit requirement.	17520ZN0364	Hidayati
15.247 (d)	RSS-247 5.5	Band-Edge Conducted Spurious Emission	Pass	Worst case emission: -39.48 dBm	17520ZN0364	Hidayati
15.247 (b)	RSS-247 5.5	Conducted Spurious Emission	Pass	Worst case emission: -42.78 dBm	17520ZN0364	Hidayati
15.205, 15.209, 15.247 (d)	RSS247 5.5	Radiated Emission within Restricted Bands	Pass	Worst case emission: RBE: 45.1366 dBuV/m. (Margin = 8.8634dBuV/m) (AVG) RSE: 49.3577 dBuV/m (Margin = 4.6423dBuV/m) (AVG), noise floor	17520ZN0252	Fuad & Aiman
15.207	RSS-Gen 8.8	AC Power Line Conducted Spurious Emission	NA	Meet the limit requirement.	17520ZN0256 & 17520ZN0252	Shidee
15.203	-	Antenna Requirement	NA	Internal antenna is not accessible to the end-user	NA	NA

3.0. Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (±dB)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.48
Radiated Emissions up to 1 GHz	30MHz ~ 1000MHz	5.88
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.84
	18GHz ~ 40GHz	6.02
Conducted Spurious Emissions	9kHz ~ 12.75GHz	2.82

4.0 Equipment List

Bluetooth ATE # 1 (SW Version: Ate Main_3.1.12)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
CHAMBER	SH-641	92003820	18-Jul-23	18-Jul-24
POWER SUPPLY	6652A	3640A02967	19-Oct-22	19-Oct-23
SPECTRUM ANALYZER	E4440A	MY46185415	27-Dec-22	27-Dec-23

Radiated Emission Station (SW Version: EMC FCC RE v1.6.5)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMI TEST RECEIVER	ESIB26	100017	09-Nov-22	08-Nov-23
3m Semi-anechoic Chamber	NA	888032	No Cal. Req'd	No Cal. Req'd
TURNTABLE FLUSH MOUNT 2M	T-200-S	N/A	No Cal. Req'd	No Cal. Req'd
PROGRAMMING CONTROLLER	MF-7802BS	N/A	No Cal. Req'd	No Cal. Req'd
POWER SUPPLY (0-60V/0-50A, 1000W)	6032A	2615A01178	18-Jun-23	18-Jun-24
SIGNAL ANALYZER	FSV40	101432	10-Aug-23	09-Aug-24
DATA LOGGER	SDL500	A.016800	21-Jun-23	21-Jun-24
BILOG ANTENNA	CBL6112D	55546	23-Jun-22	23-Sep-23
BILOG ANTENNA	CBL6112D	30991	5-Jan-23	5-Jan-24
DRG HORN FREQ.	SAS-571	566	22-Nov-22	22-Nov-23
DRG HORN FREQ.	SAS-571	720	18-Apr-23	18-Apr-25
PREAMPLIFIER	PAM-0118	427	18-Oct-21	18-Oct-24
SIGNAL GENERATOR	SMB100A	182511	04-Jun-21	04-Jun-24
LOOP ANTENNA	6502	00208416	12-Oct-22	12-Oct-23
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170255	22-Feb-23	22-Feb-24

AC Powerline Station (SW Version: EMC32 Ver.10.60.10)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
DATA LOGGER	DSB	16344143	21-Jun-2023	23-Jun-2024
V-NETWORK 2-LINE	ENV216	101268	15-Nov-22	15-Nov-23
EMI TEST RECEIVER	ESCI	100225	9-Nov-2022	9-Nov-2023
PROGRAMMABLE AC SOURCE	61604	616040003502	12-Dec-2022	12-Dec-2023

5.0 Test Mode Applicability and Test Channel Detail

Radiated Emission Test (Above 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Environmental Conditions
Test Mode	0 to 39	0,19,39	GFSK	22.8°C, 70.1%RH

Radiated Emission Test (Below 1GHz)

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Environmental Conditions
Test Mode	0 to 39	0,19,39	GFSK	22.8°C, 70.1%RH

Power Line Conducted Emission Test

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Environmental Conditions
Application Mode	0 to 39	AUTO	AUTO	NA

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

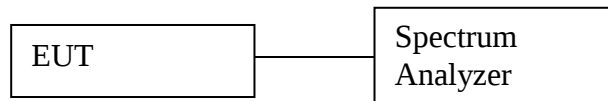
☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Environmental Conditions
Test Mode	0 to 39	0,19,39	GFSK	25°C, 54.8%RH

6.0 Transmitter Test Parameters

6.1 6dB Channel Bandwidth

6.1.1 Test Setup



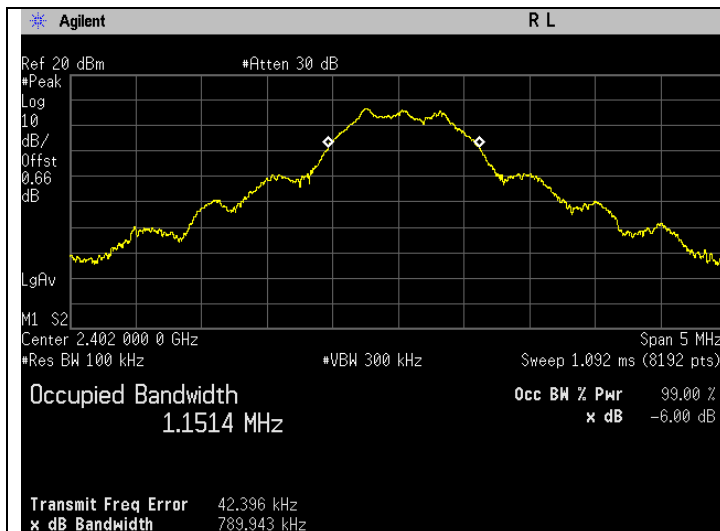
- 1) Check and ensure the spectrum analyzer well calibrate.
- 2) Turn on the DUT and set DUT to transmit maximum power.
- 3) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- 4) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max hold
 - e. Sweep = auto
- 5) Measure the freq different of two frequencies that were attenuated 6dB from peak of the emission & record the frequency difference as the emission bandwidth.

6.1.2 Test Limits:

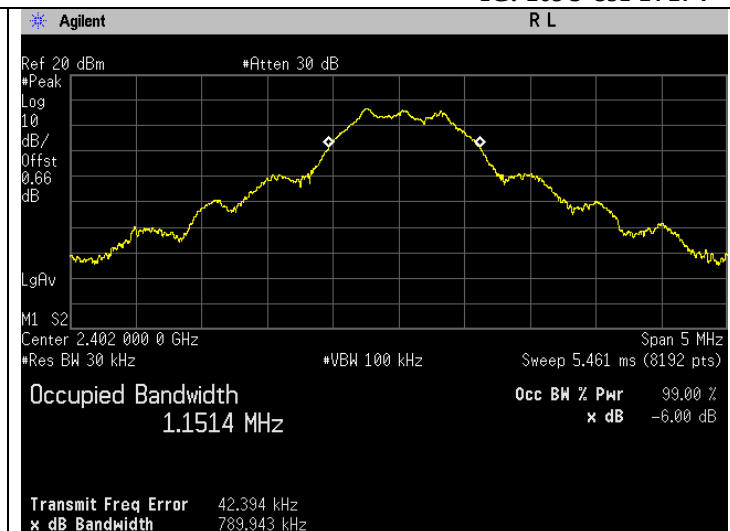
Normal Condition (25 ° C)
≥500 kHz

6.1.3 Test Data:

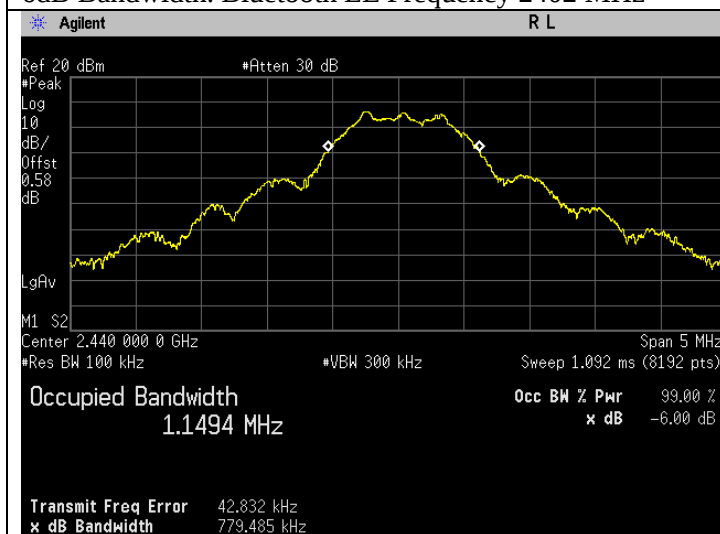
Test Conditions		Test Frequency	Results		
Standard	Modulation Type	Tx (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Status
Bluetooth L.E	GFSK	2402	0.790	1.151	Pass
Bluetooth L.E	GFSK	2440	0.779	1.149	Pass
Bluetooth L.E	GFSK	2480	0.771	1.146	Pass



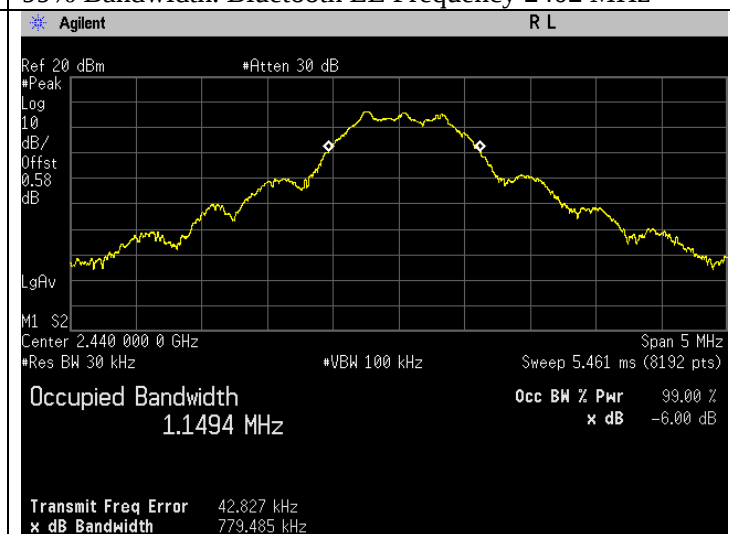
6dB Bandwidth. Bluetooth LE Frequency 2402 MHz



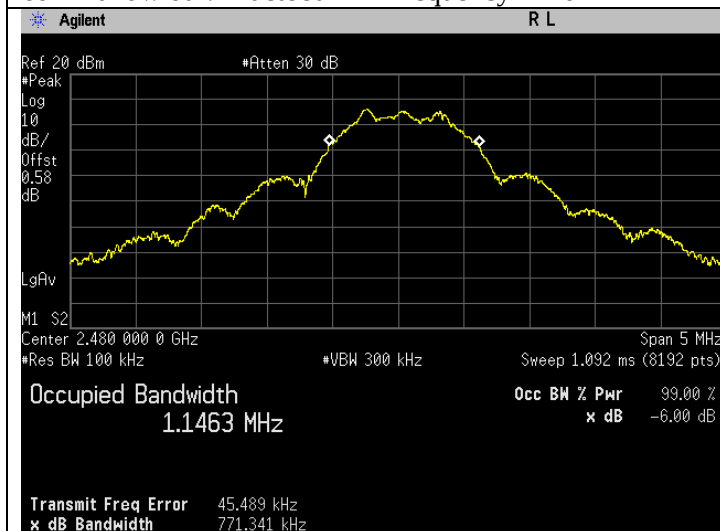
99% Bandwidth. Bluetooth LE Frequency 2402 MHz



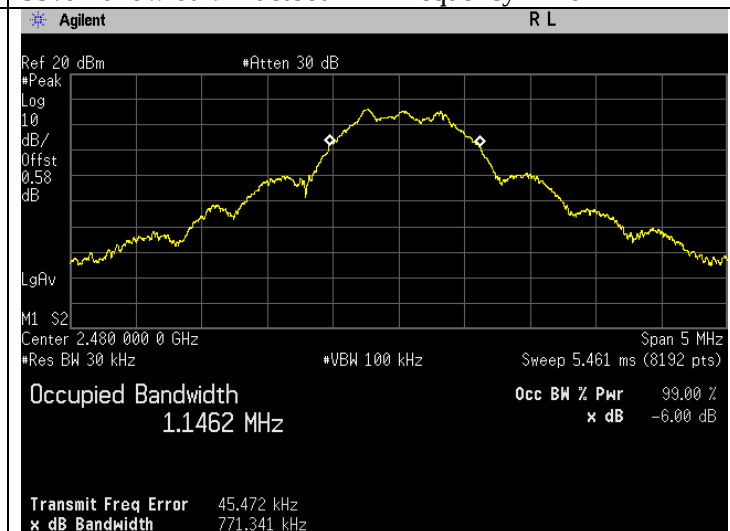
6dB Bandwidth. Bluetooth LE Frequency 2440 MHz



99% Bandwidth. Bluetooth LE Frequency 2440 MHz



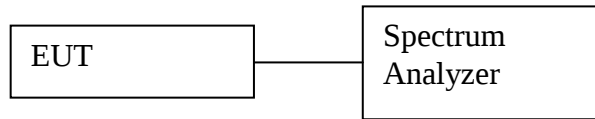
6dB Bandwidth. Bluetooth LE Frequency 2480 MHz



99% Bandwidth. Bluetooth LE Frequency 2480 MHz

6.2 Conducted RF Output Power

6.2.1 Test Setup



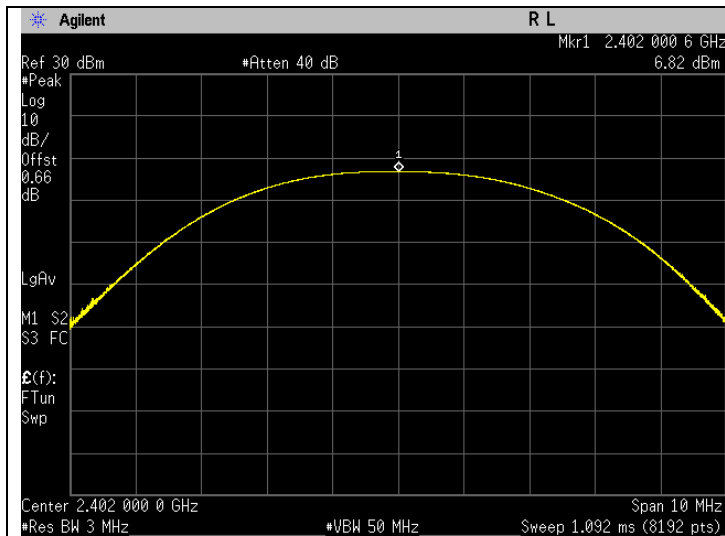
- 1) Check and ensure the spectrum analyzer well calibrate.
- 2) Turn on the DUT and set DUT to transmit maximum power.
- 3) Setting of Spectrum analyzer :
 - a. Set the RBW = 3MHz.
 - b. Set the VBW $\geq [3 \times \text{RBW}]$.
 - c. Set the span $\geq [1.5 \times \text{OBW bandwidth}]$.
 - d. Detector = Peak.
 - e. Sweep time = auto couple.
 - f. Trace mode = free run.
 - g. Allow trace to fully stabilize.

6.2.2 Test Limits:

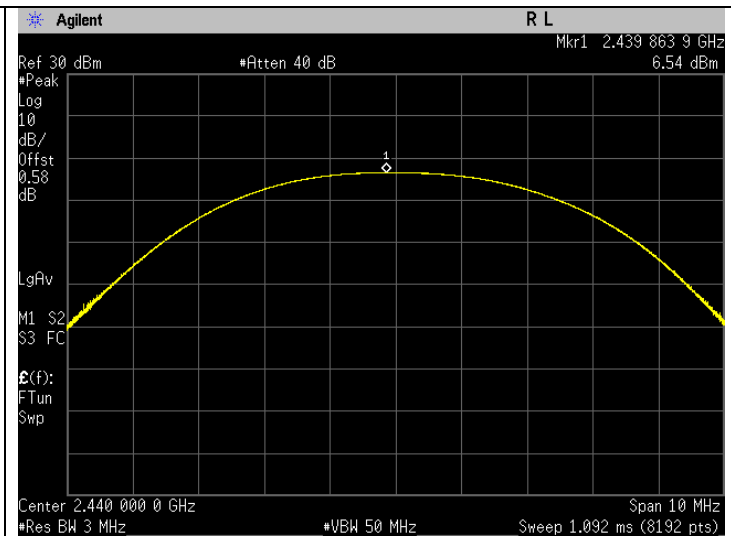
Normal Condition (25 ° C)
≤ 1 Watt(30 dBm)

6.2.3 Test Data:

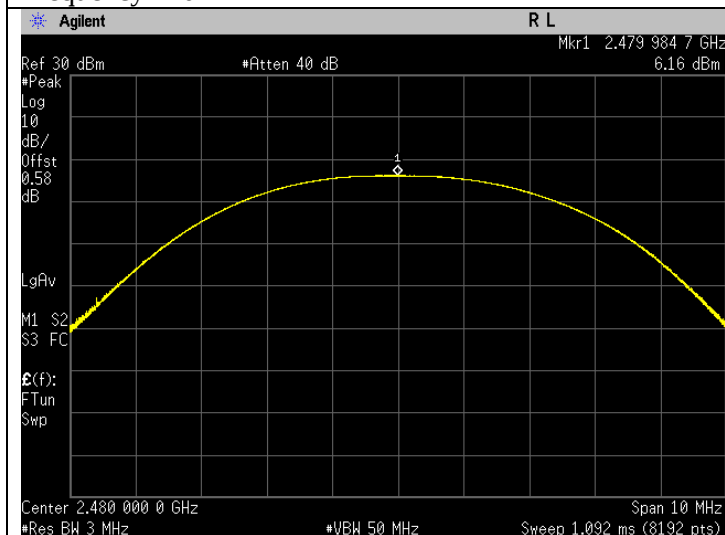
Test Conditions			Test Frequency	Results
Standard	Modulation Type	Tx (MHz)	Output Power (dBm)	Status
Bluetooth L.E	GFSK	2402	6.819	Pass
Bluetooth L.E	GFSK	2440	6.537	Pass
Bluetooth L.E	GFSK	2480	6.162	Pass



Frequency 2402 MHz



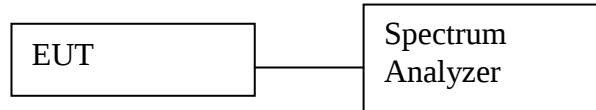
Frequency 2440 MHz



Frequency 2480 MHz

6.3 Maximum Peak Power Spectral Density

6.3.1 Test Setup



Maximum Peak

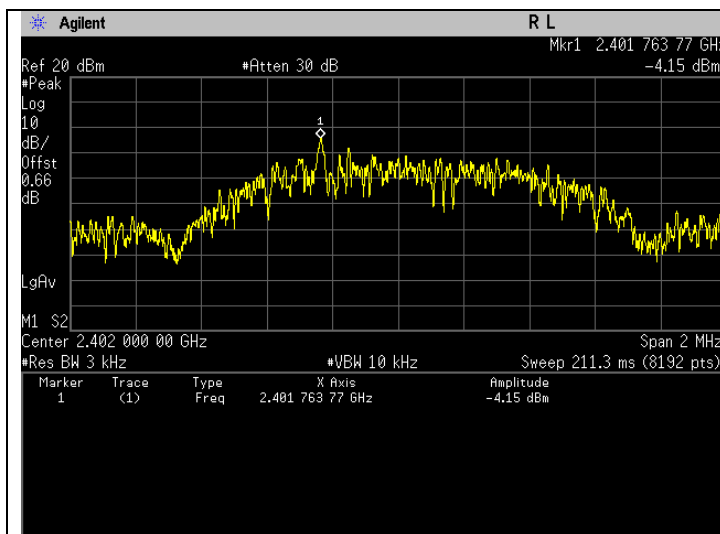
- 1) Check and ensure the spectrum analyzer well calibrate.
- 2) Turn on the DUT and set DUT to transmit maximum power.
- 3) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- 4) Setting of Spectrum analyzer :
 - a. Set analyzer center frequency to DTS channel center frequency.
 - b. Set the span to 1.5 times the DTS bandwidth.
 - c. Set the RBW to 3 kHz.
 - d. Set the VBW $\geq [3 \times \text{RBW}]$.
 - e. Detector = peak.
 - f. Sweep time = auto couple.
 - g. Trace mode = max hold.
 - h. Allow trace to fully stabilize.
 - i. Use the peak marker function to determine the maximum amplitude level within the RBW.
 - j. If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

6.3.2 Test Limits:

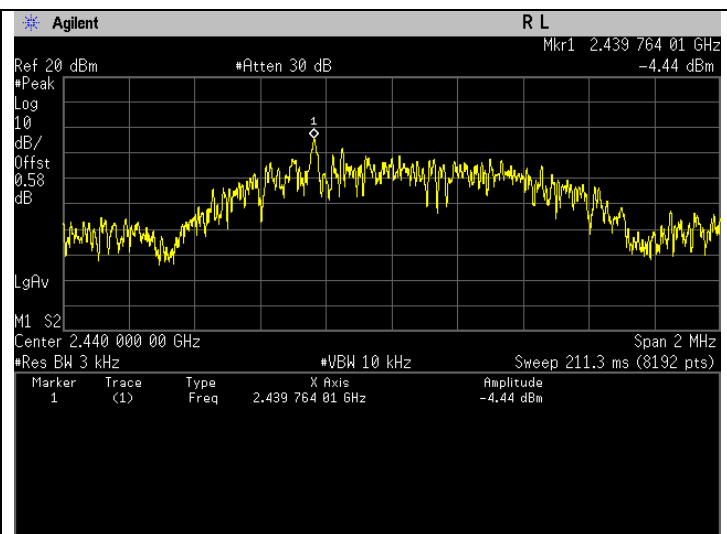
Normal Condition (25 ° C)
$\leq 8 \text{ dBm/3kHz}$

6.3.3 Test Result

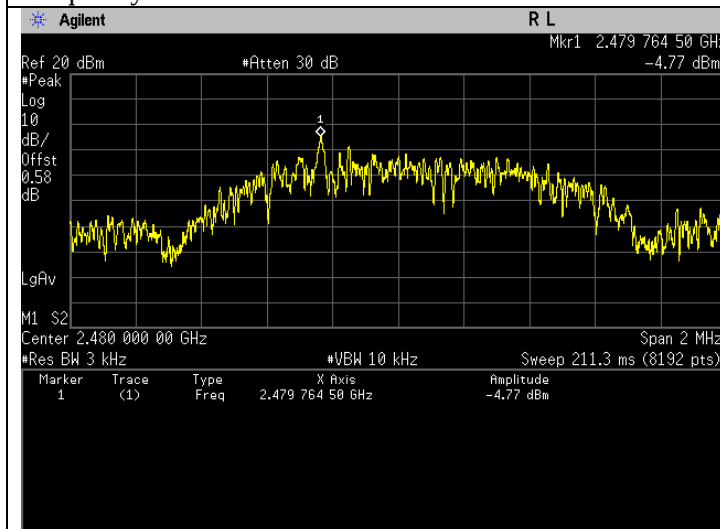
Test Conditions		Test Frequency	Results	
Standard	Modulation Type	Tx (MHz)	Power (dBm/3kHz)	Status
Bluetooth L.E.	GFSK	2402	-4.15	Pass
Bluetooth L.E.	GFSK	2440	-4.44	Pass
Bluetooth L.E.	GFSK	2480	-4.77	Pass



Maximum Power Spectral Density. Bluetooth LE
Frequency 2402 MHz



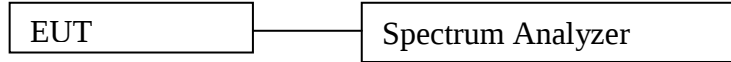
Maximum Power Spectral Density. Bluetooth LE
Frequency 2440 MHz



Maximum Power Spectral Density. Bluetooth LE
Frequency 2480 MHz

6.4 Conducted Spurious Emission

6.4.1 Test Setup



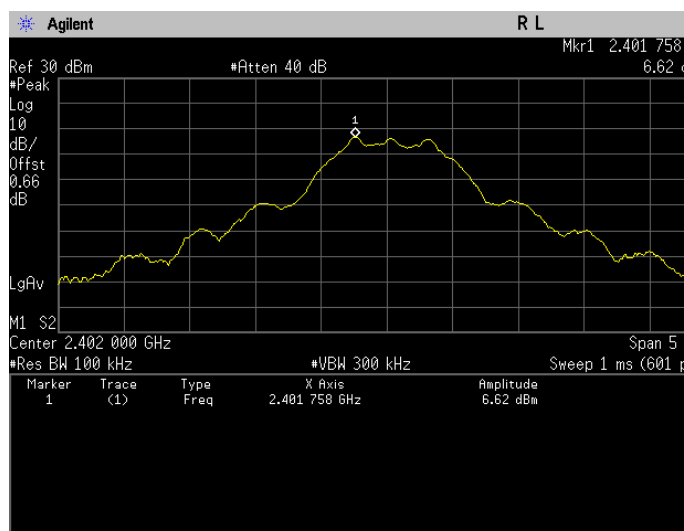
- 1) Check and ensure the spectrum analyzer well calibrate.
- 2) Turn on the DUT and set DUT to transmit maximum power.
- 3) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- 4) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max Hold
 - e. Sweep = auto
- 5) Use the peak marker function to measure highest emission and scan up to 10th harmonic.

6.4.2 Test Limits:

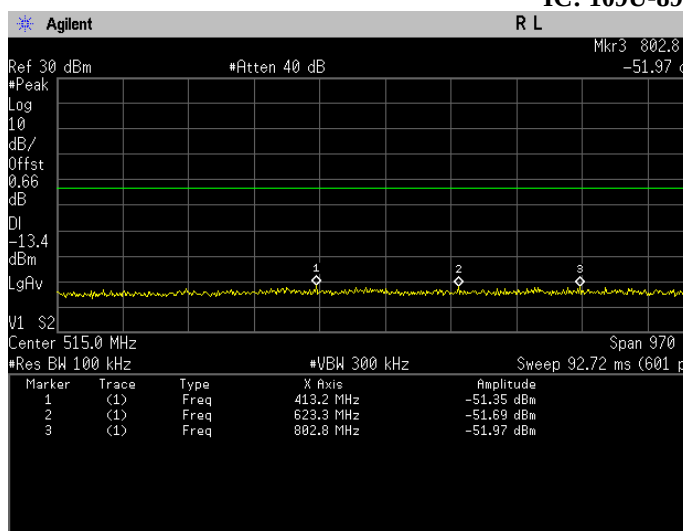
Normal Condition (25 ° C)
Shall be at least 20 dB below max power. (Peak detector)
Shall be at least 30 dB below max power. (Average detector)

6.4.3 Test Result

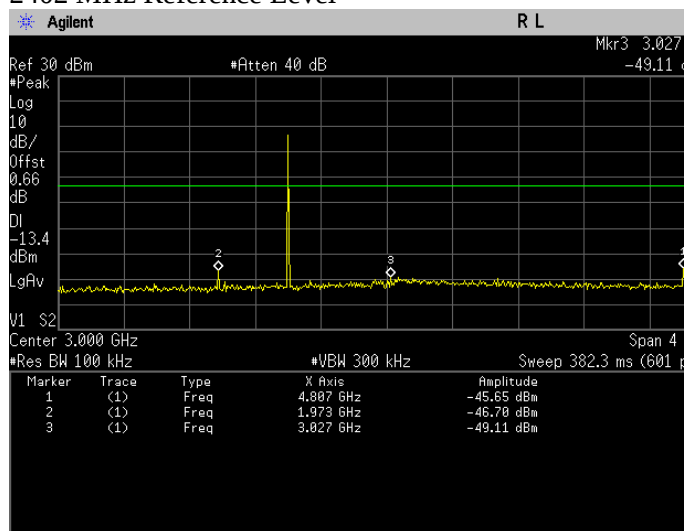
Test Conditions			Test Frequency	Results	
Standard	Modulation Type	Tx (MHz)	Spurs (MHz)	Level (dBm)	Status
Bluetooth L.E.	GFSK	2402	24958.00	-43.09	Pass
			24975.00	-43.76	Pass
			24517.00	-43.77	Pass
Bluetooth L.E.	GFSK	2440	22817.00	-42.78	Pass
			24967.00	-43.57	Pass
			24392.00	-43.84	Pass
Bluetooth L.E.	GFSK	2480	24992.00	-42.99	Pass
			24917.00	-43.62	Pass
			24933.00	-43.93	Pass



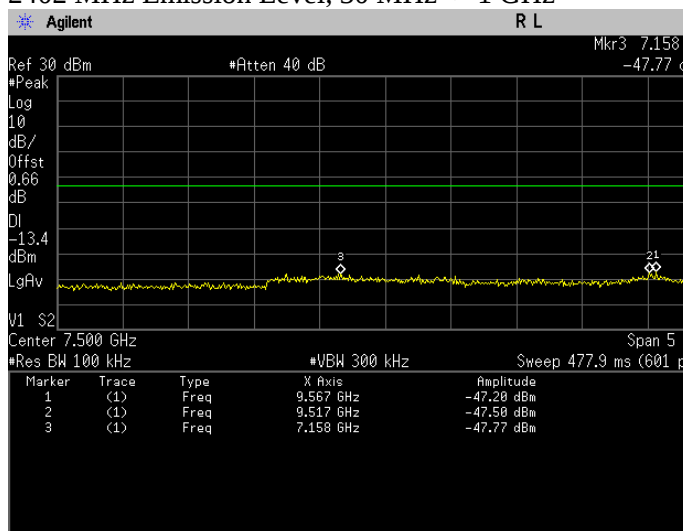
Conducted Emissions (Peak). Bluetooth LE, Frequency 2402 MHz Reference Level



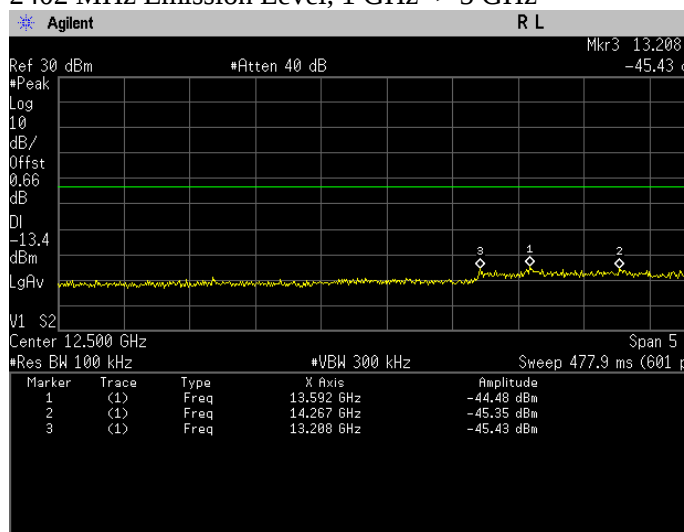
Conducted Emissions (Peak). Bluetooth LE, Frequency 2402 MHz Emission Level, 30 MHz -> 1 GHz



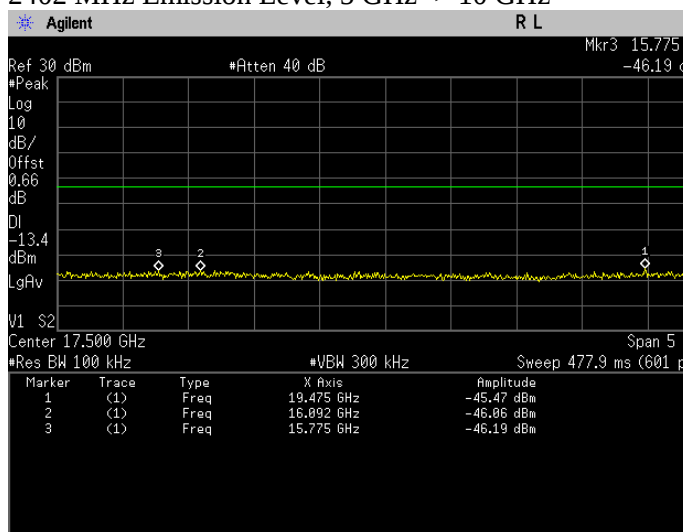
Conducted Emissions (Peak). Bluetooth LE, Frequency 2402 MHz Emission Level, 1 GHz -> 5 GHz



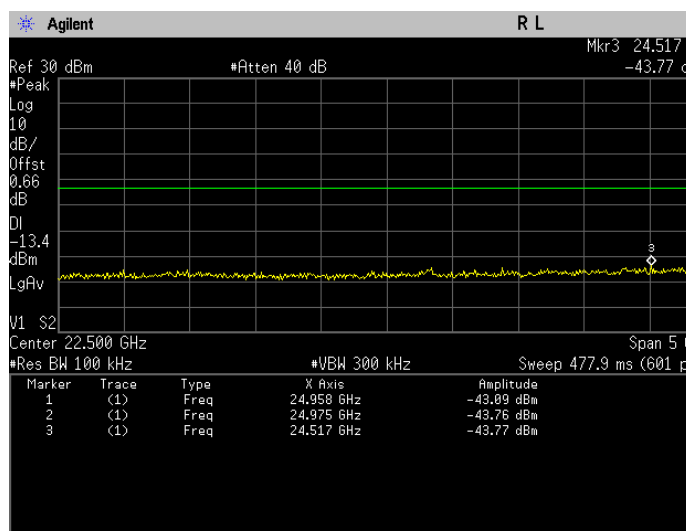
Conducted Emissions (Peak). Bluetooth LE, Frequency 2402 MHz Emission Level, 5 GHz -> 10 GHz



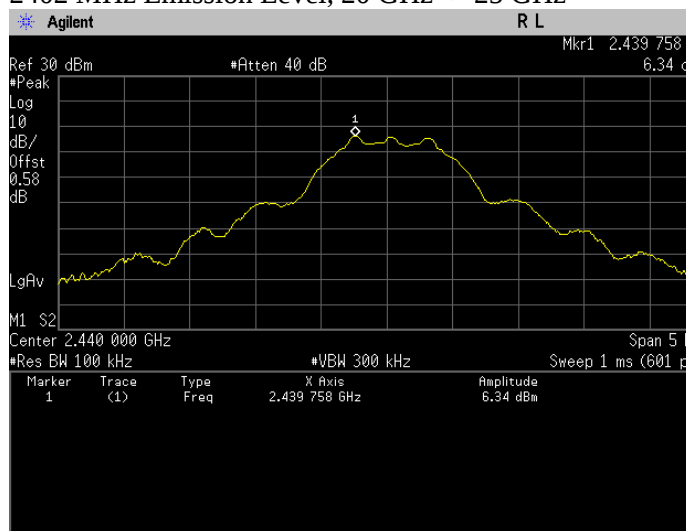
Conducted Emissions (Peak). Bluetooth LE, Frequency 2402 MHz Emission Level, 10 GHz -> 15 GHz



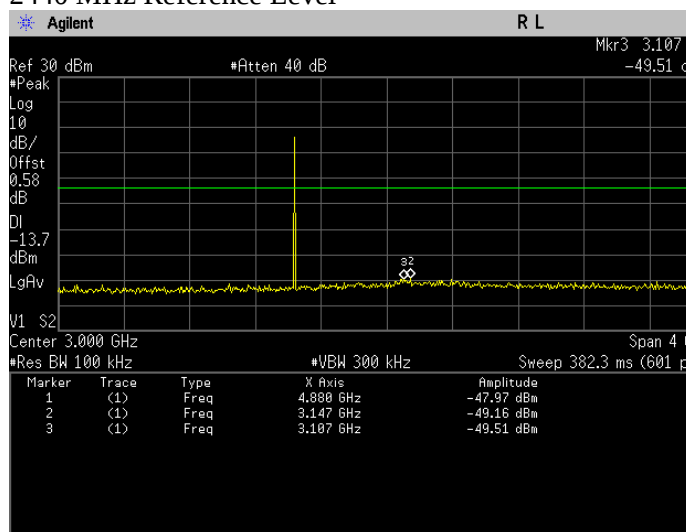
Conducted Emissions (Peak). Bluetooth LE, Frequency 2402 MHz Emission Level, 15 GHz -> 20 GHz



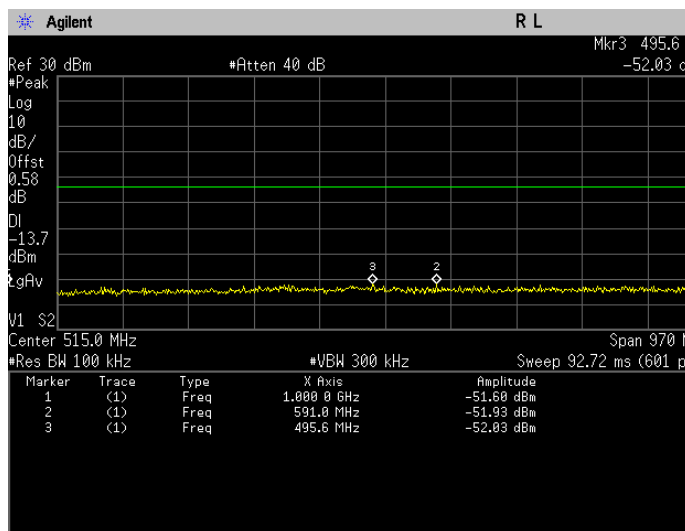
Conducted Emissions (Peak). Bluetooth LE, Frequency 2402 MHz Emission Level, 20 GHz -> 25 GHz



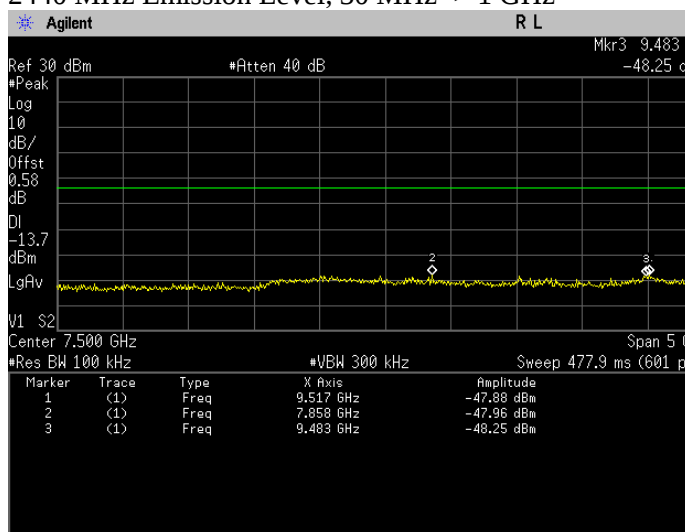
Conducted Emissions (Peak). Bluetooth LE, Frequency 2440 MHz Reference Level



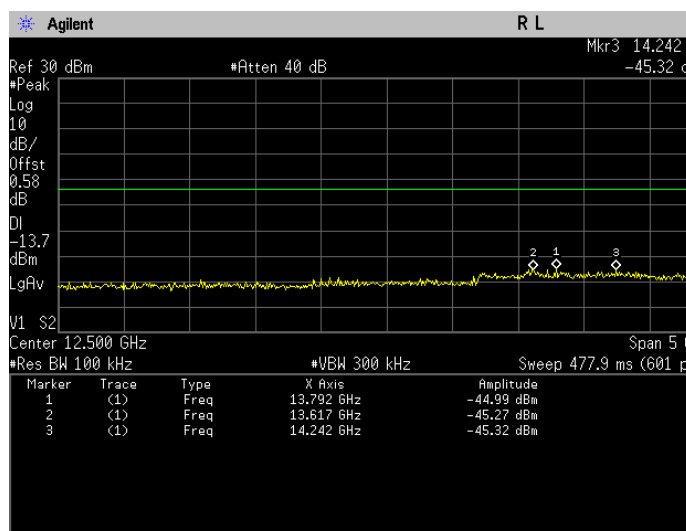
Conducted Emissions (Peak). Bluetooth LE, Frequency 2440 MHz Emission Level, 1 GHz -> 5 GHz



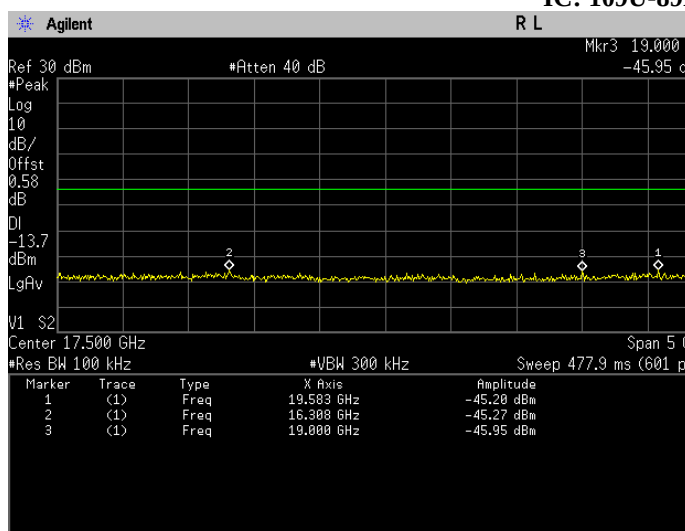
Conducted Emissions (Peak). Bluetooth LE, Frequency 2440 MHz Emission Level, 30 MHz -> 1 GHz



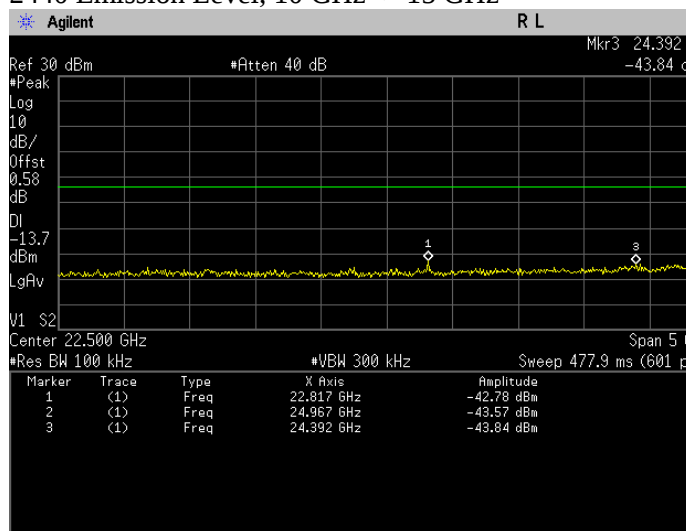
Conducted Emissions (Peak). Bluetooth LE, Frequency 2440 MHz Emission Level, 5 GHz -> 10 GHz



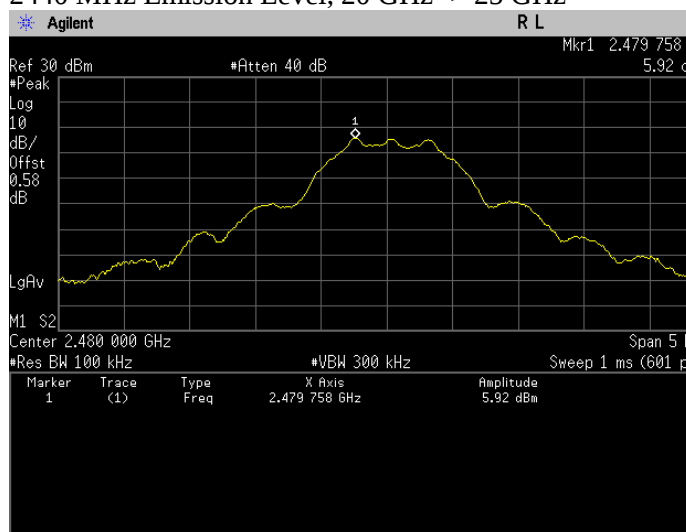
Conducted Emissions (Peak). Bluetooth LE, Frequency 2440 Emission Level, 10 GHz -> 15 GHz



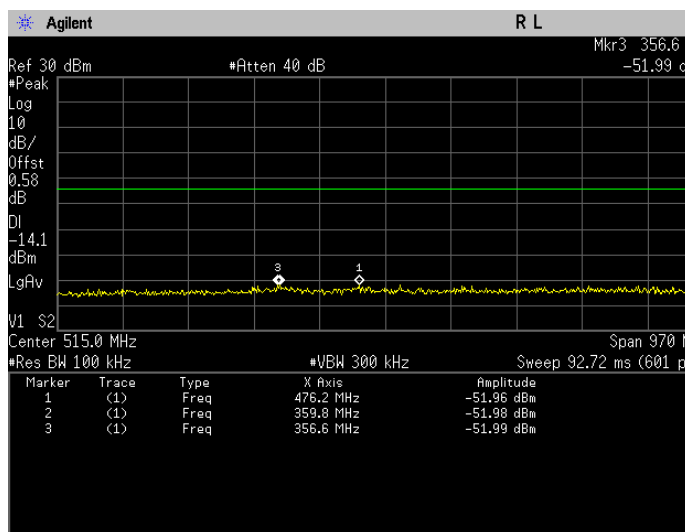
Conducted Emissions (Peak). Bluetooth LE, Frequency 2440 MHz Emission Level, 15 GHz -> 20 GHz



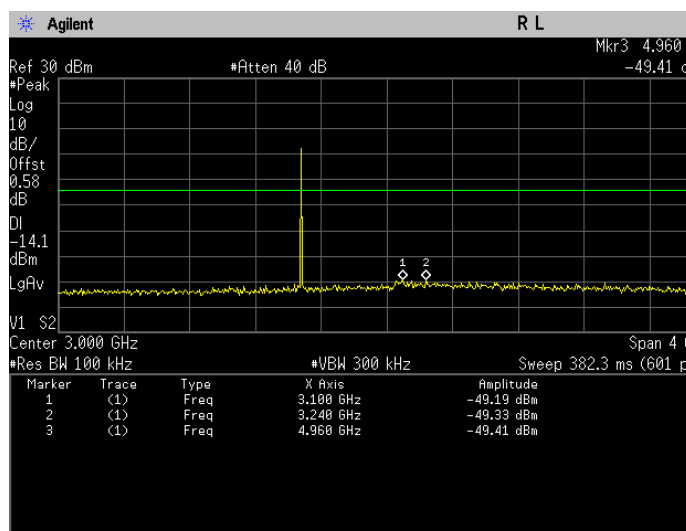
Conducted Emissions (Peak). Bluetooth LE, Frequency 2440 MHz Emission Level, 20 GHz -> 25 GHz



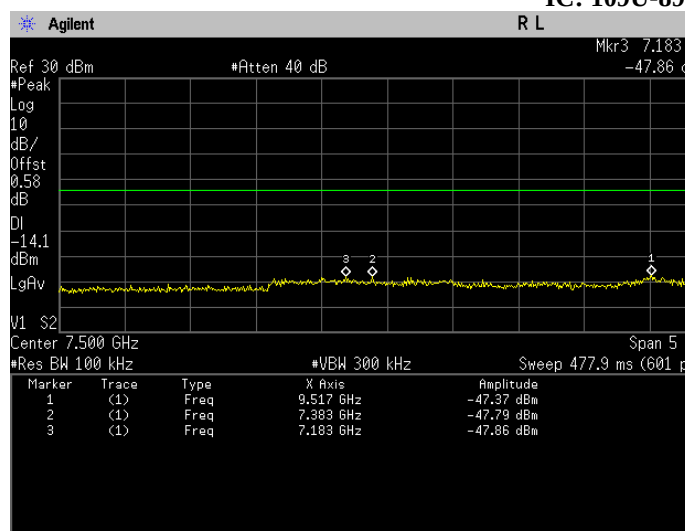
Conducted Emissions (Peak). Bluetooth LE, Frequency 2480 MHz Reference Level



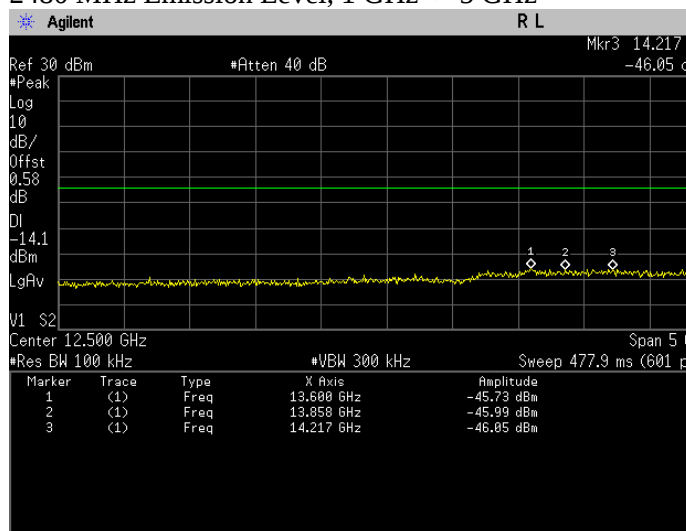
Conducted Emissions (Peak). Bluetooth LE, Frequency 2480 MHz Emission Level, 30 MHz -> 1 GHz



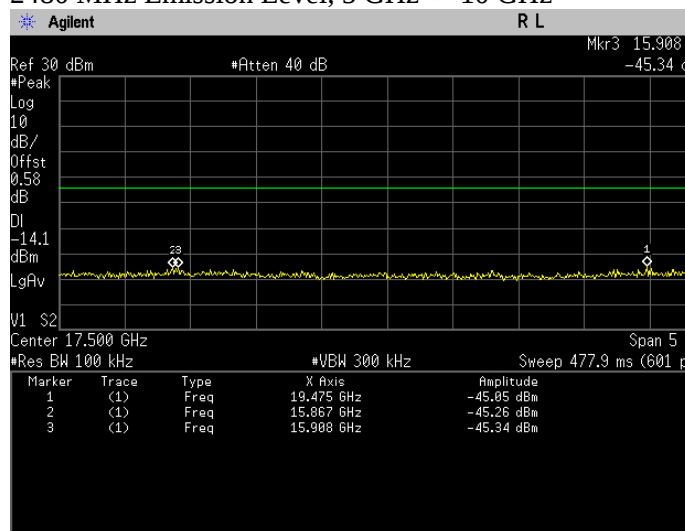
Conducted Emissions (Peak). Bluetooth LE, Frequency 2480 MHz Emission Level, 1 GHz -> 5 GHz



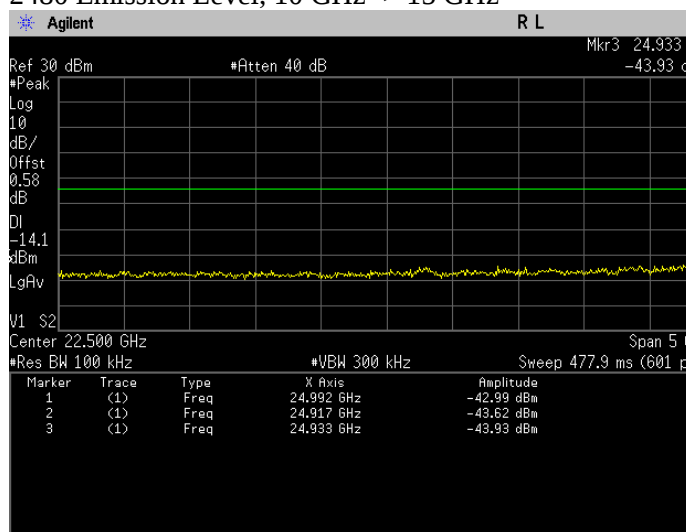
Conducted Emissions (Peak). Bluetooth LE, Frequency 2480 MHz Emission Level, 5 GHz -> 10 GHz



Conducted Emissions (Peak). Bluetooth LE, Frequency 2480 MHz Emission Level, 10 GHz -> 15 GHz



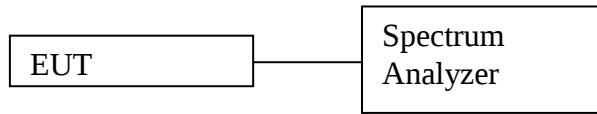
Conducted Emissions (Peak). Bluetooth LE, Frequency 2480 MHz Emission Level, 15 GHz -> 20 GHz



Conducted Emissions (Peak). Bluetooth LE, Frequency 2480 MHz Emission Level, 20 GHz -> 25 GHz

6.5 Band edge Conducted Spurious Emission

6.5.1 Test Setup



- a) Check and ensure the spectrum analyzer well calibrate.
- b) Turn on the DUT and set DUT to transmit maximum power.
- c) Connect DUT's antenna terminal to spectrum analyzer with a low loss cable.
- d) Setting of Spectrum analyzer :
 - a. RBW = 100 kHz
 - b. VBW = 300 kHz
 - c. Detector mode = Peak
 - d. Trace = Max Hold
 - e. Sweep = auto
- e) Use the peak marker function to measure highest emission.

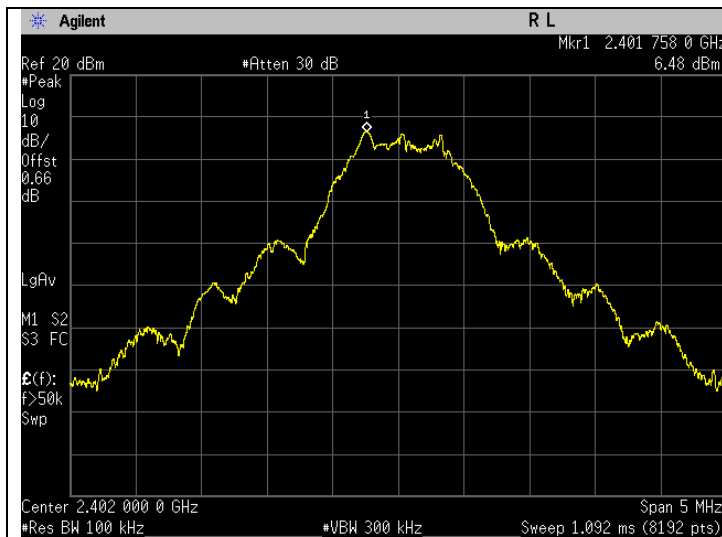
6.5.2 Test Limits:

Normal Condition (25 ° C)
Shall be at least 20 dB below max power. (Peak detector)
Shall be at least 30 dB below max power. (Average detector)

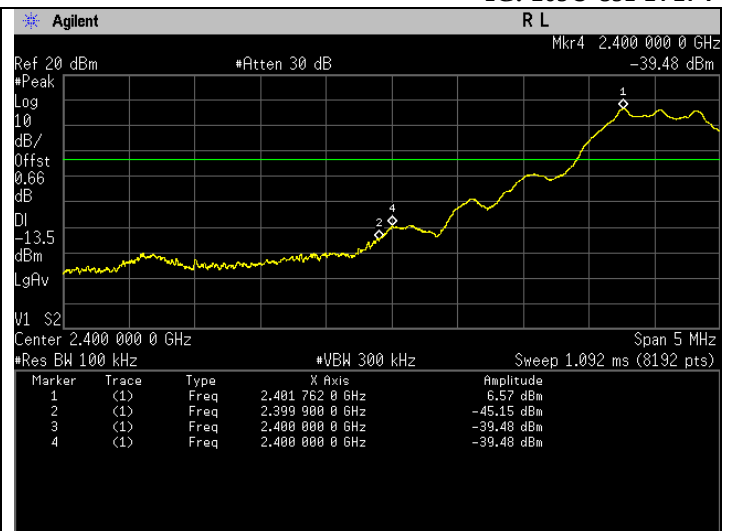
6.5.3 Test

Result

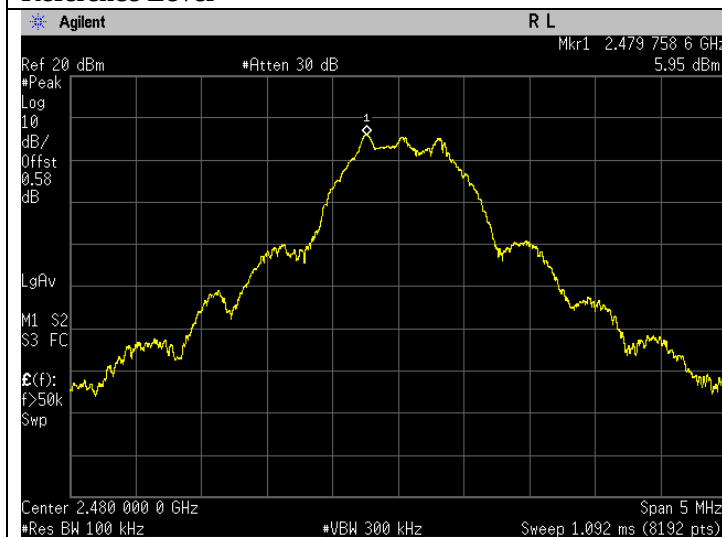
Test Conditions		Test Frequency	Results		
Standard	Modulation Type	Tx (MHz)	Frequencies (MHz)	Power (dBm)	Status
Bluetooth L.E	GFSK	2402	2400.00	-39.48	Pass
Bluetooth L.E	GFSK	2480	2483.52	-52.54	Pass



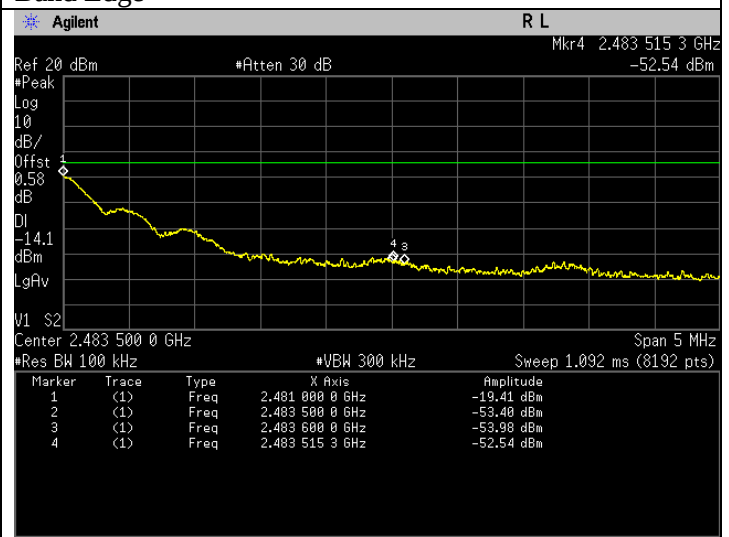
Band Edge (Peak). Bluetooth LE Frequency 2402 MHz
Reference Level



Band Edge (Peak). Bluetooth LE Frequency 2402 MHz
Band Edge



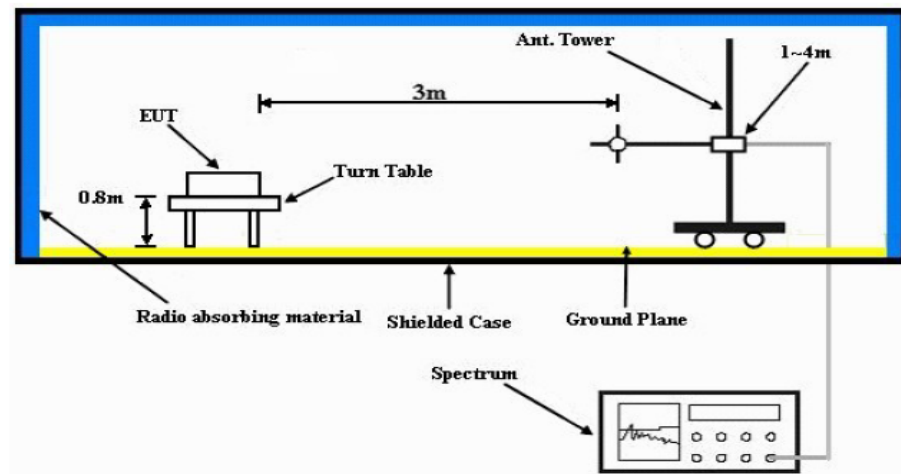
Band Edge (Peak). Bluetooth LE Frequency 2480 MHz
Reference Level



Band Edge (Peak). Bluetooth LE Frequency 2480 MHz
Band Edge

6.6 Radiated Emission within Restricted Bands

6.6.1 Test Setup



- The EUT is placed on the top of a rotating table 0.8m (<1GHz) or 1.5m (>1GHz) above the ground at a 3m semi-anechoic chamber. The table is rotated 360 degrees to determine the position of the highest radiation.
- The EUT is set 3m away from the interference-receiving antenna, which is mounted on the top of a variable-height antenna tower.
- The antenna is Bilog/Horn antenna depend on which frequency range uses, and its height 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.
- For each suspected emission, the EUT is arranged to its worst case and then the antenna is tuned to heights from 1m to 4m and the rotatable table is turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system is set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode is fall within the range of 10dB from the limit specified, 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. Otherwise, the testing could be stopped and the peak values of the EUT would be reported.

NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3 MHz for Peak detection at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

6.6.2 Test Limits:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

NOTE:

- 1) The lower limit shall apply at the transition frequencies.
- 2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3) For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Test: Bluetooth SAC Restricted Band Edge		
Model Number: T803	S/N: 17520ZN0252	EMC SR ID#: 39731-EMC-00008
Battery: 1532	Accessory: NA	
Test Channel: Low	Test Frequency: 2402.0000 MHz	Test Standard: ANSI C63.10-2013
Worst Case Plane: Z-Plane (BTLE)		

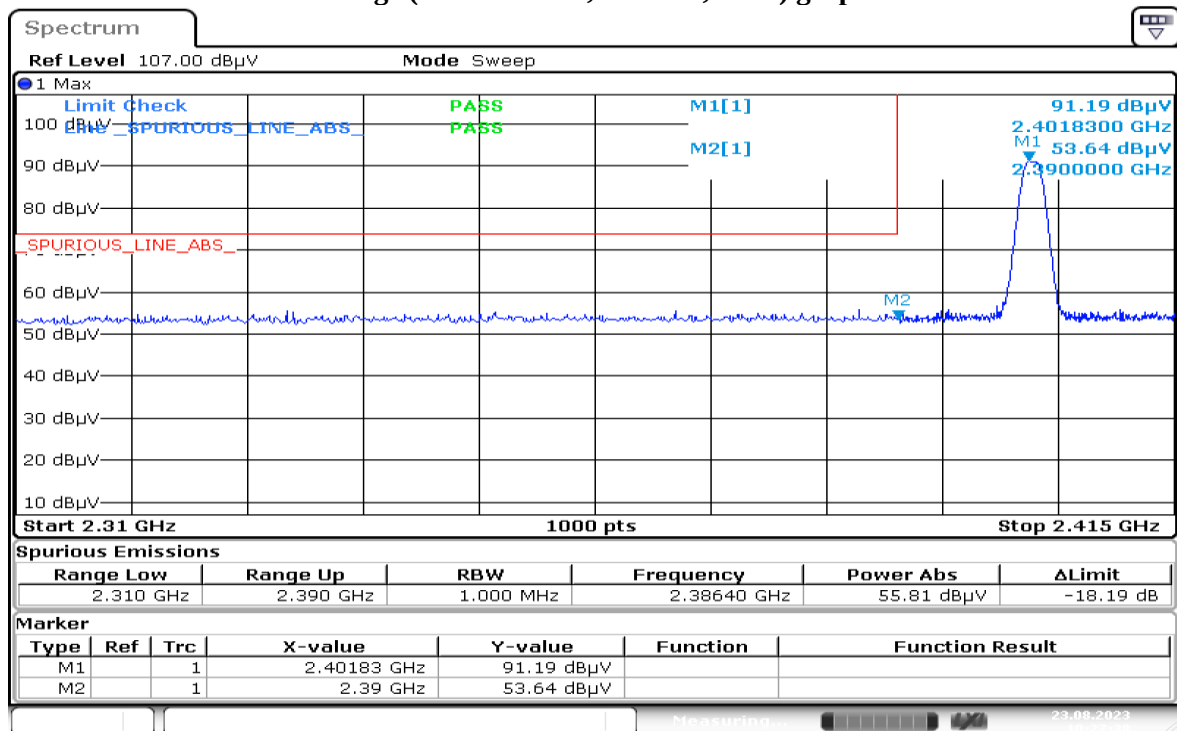
Vertical Radiated Emission Result

Horizontal Radiated Emission Result

Temperature (degC):23.1
Test Performed by: Fuad (Aiman)
System MU: 5.88 dB

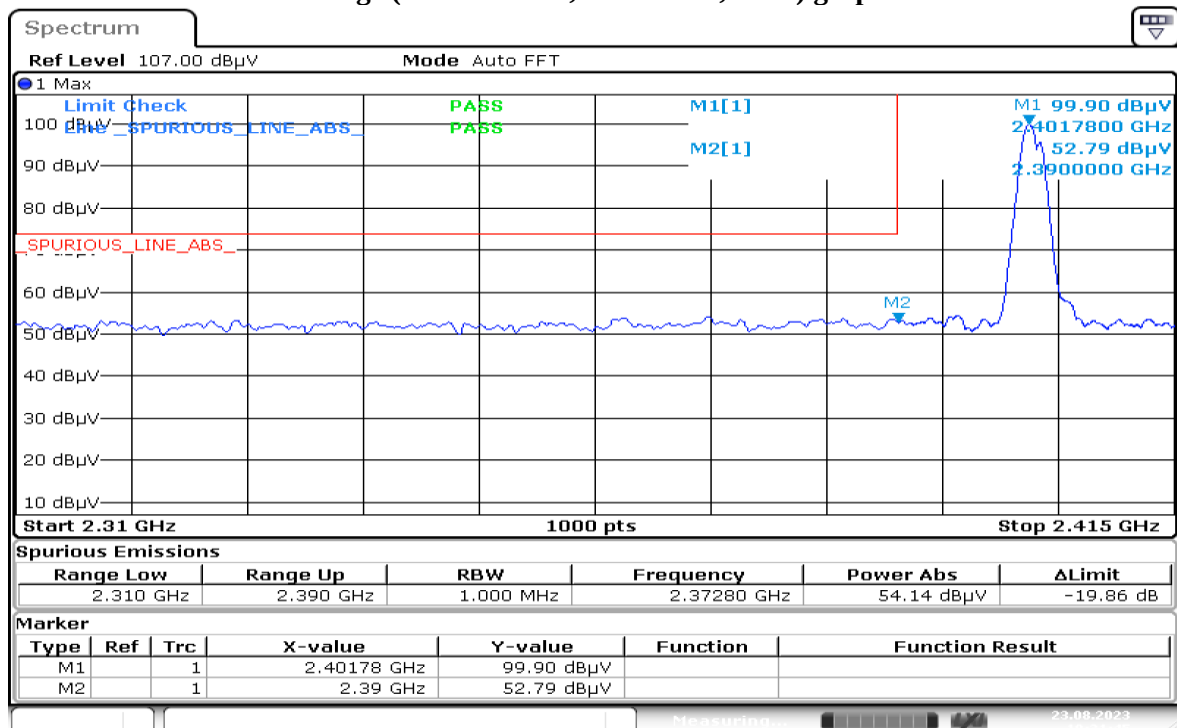
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Restricted Band Edge (Low Channel, Vertical, Peak) graphical screen shot



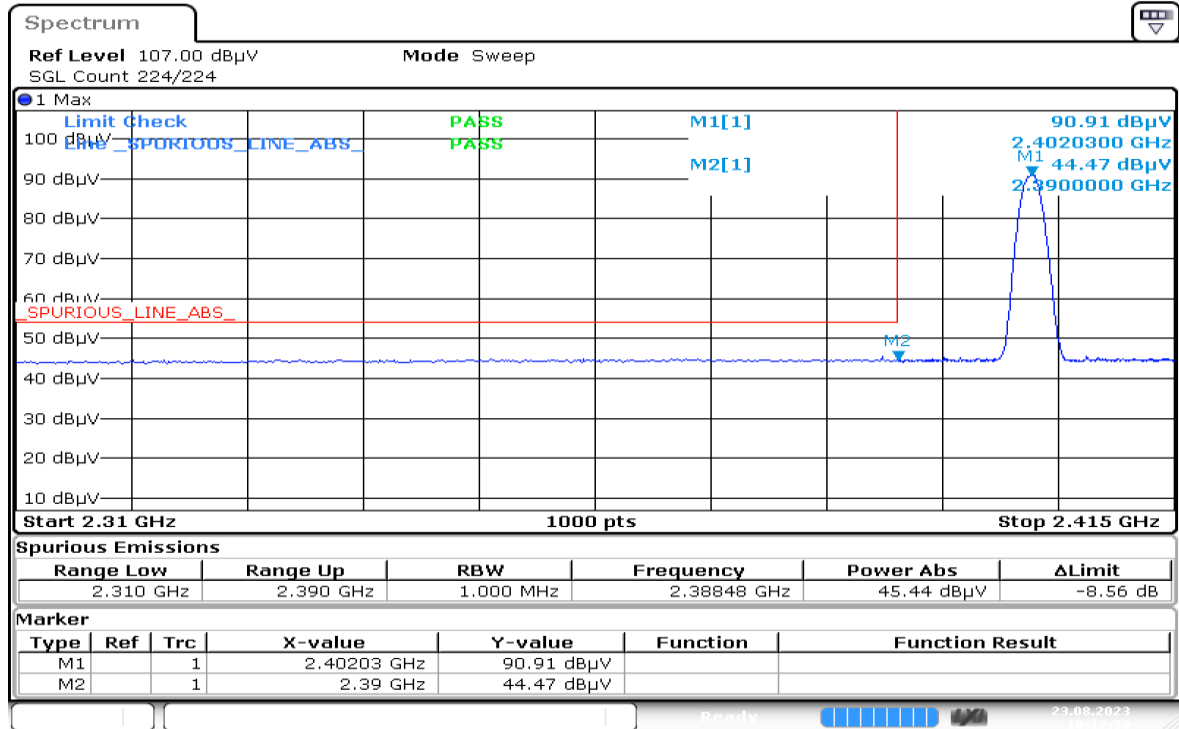
Date: 23.AUG.2023 10:27:39

Restricted Band Edge (Low Channel, Horizontal, Peak) graphical screen shot



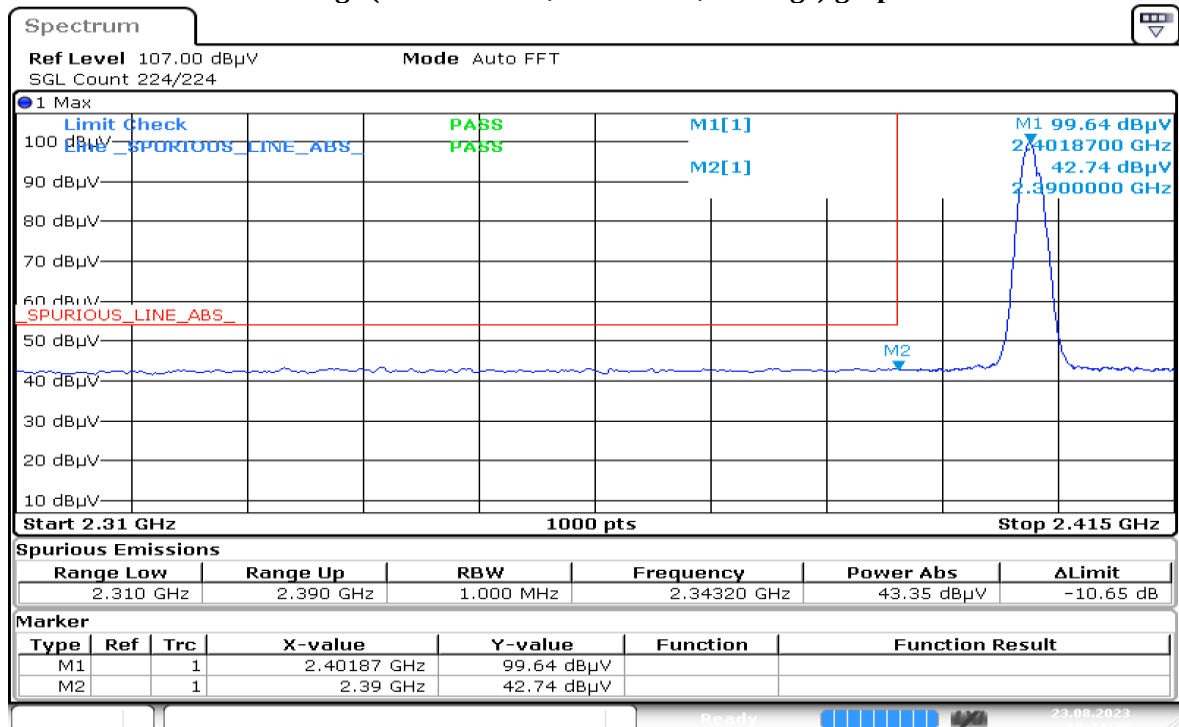
Date: 23.AUG.2023 10:31:45

Restricted Band Edge (Low Channel, Vertical, Average) graphical screen shot



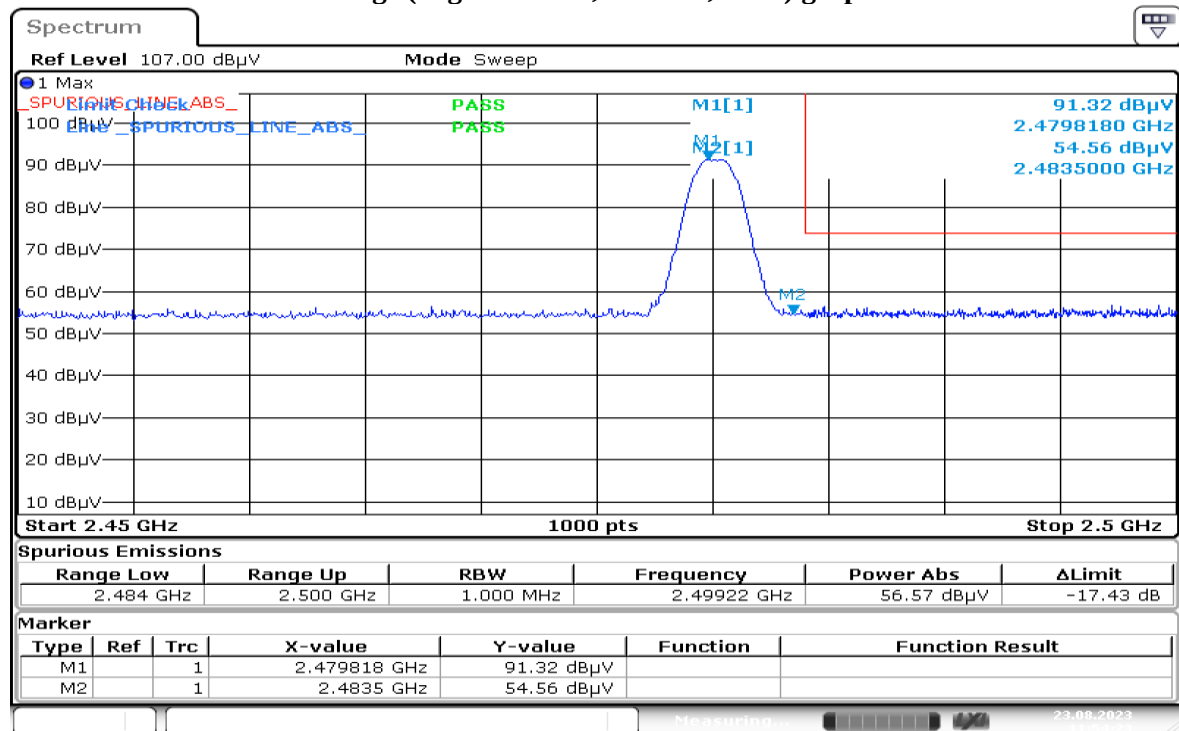
Date: 23.AUG.2023 10:17:39

Restricted Band Edge (Low Channel, Horizontal, Average) graphical screen shot



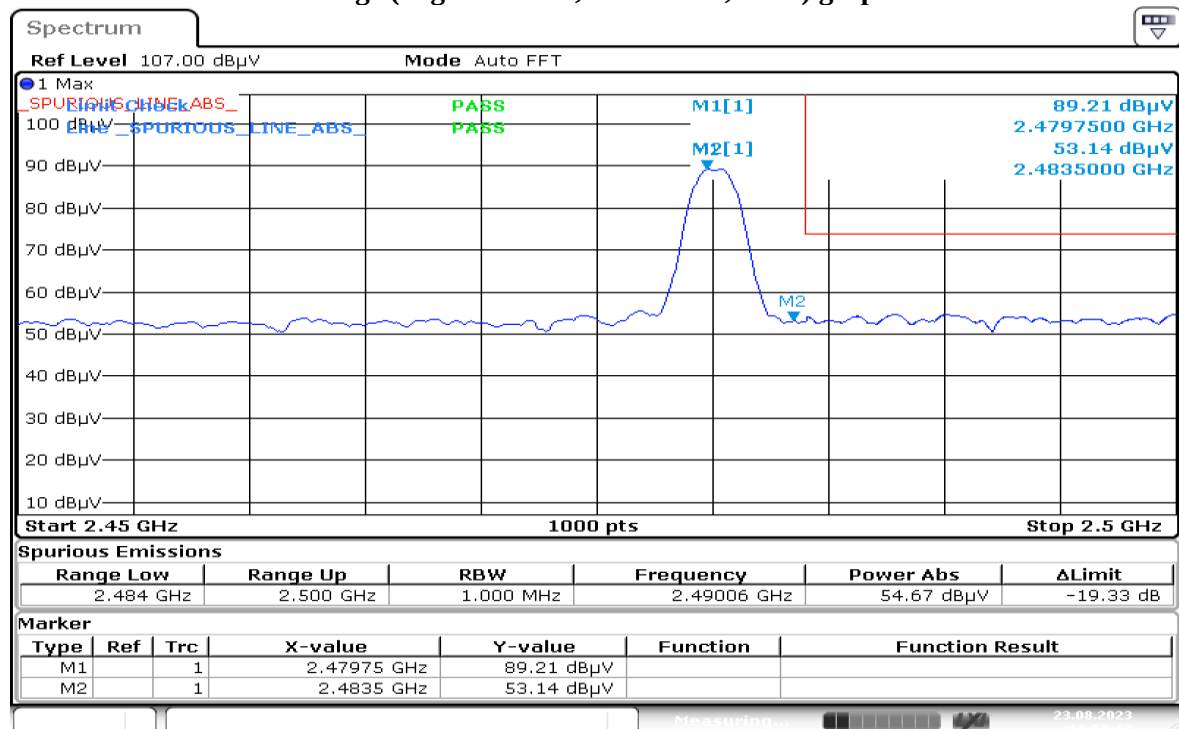
Date: 23.AUG.2023 10:21:36

Restricted Band Edge (High Channel, Vertical, Peak) graphical screen shot



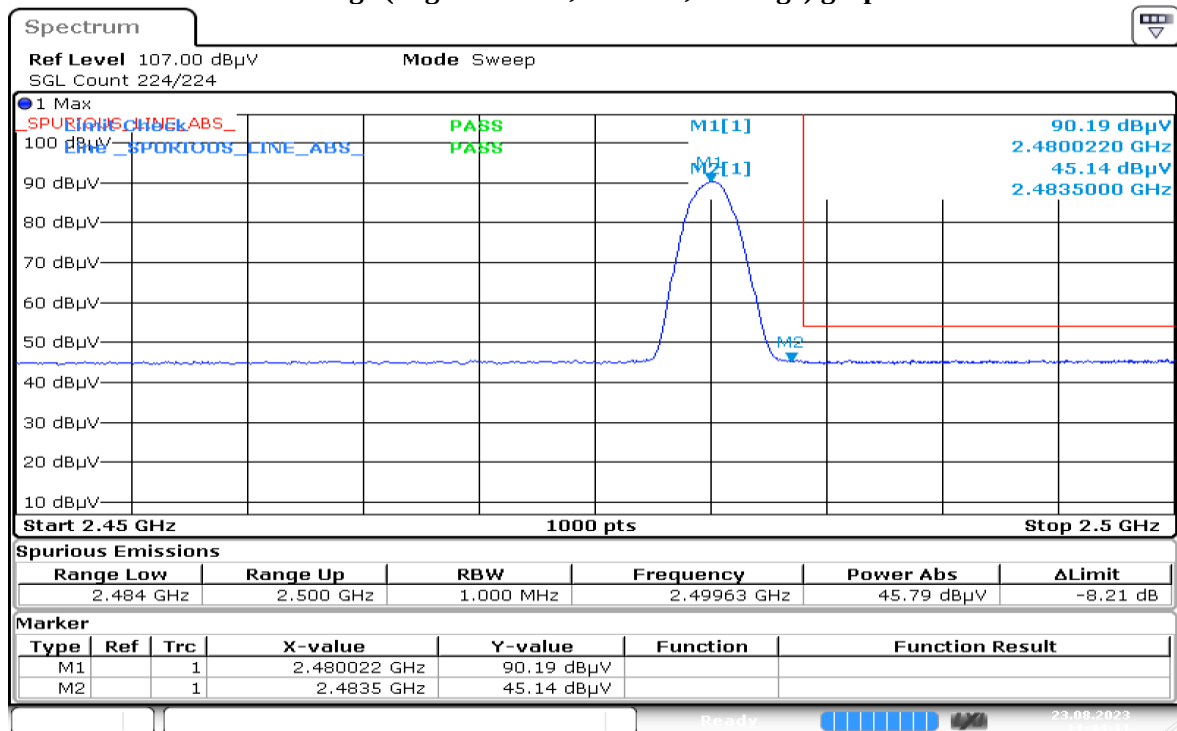
Date: 23.AUG.2023 11:54:23

Restricted Band Edge (High Channel, Horizontal, Peak) graphical screen shot



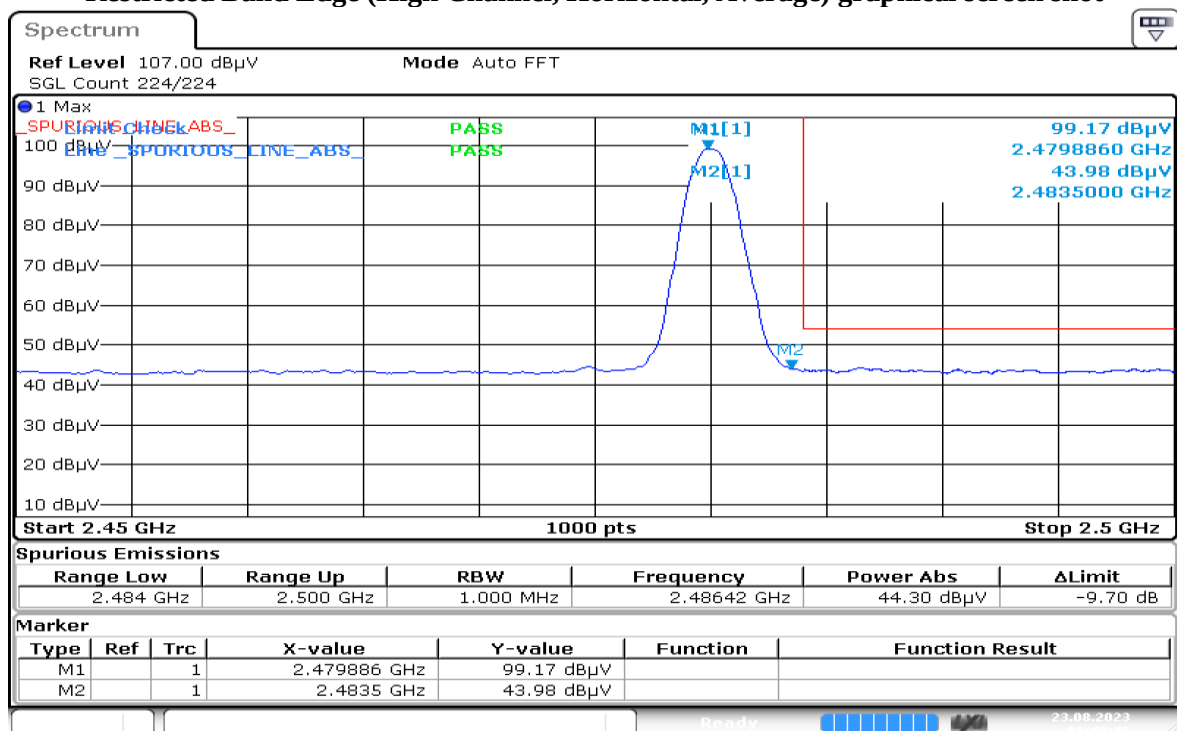
Date: 23.AUG.2023 11:58:12

Restricted Band Edge (High Channel, Vertical, Average) graphical screen shot



Date: 23.AUG.2023 11:44:12

Restricted Band Edge (High Channel, Horizontal, Average) graphical screen shot



Date: 23.AUG.2023 11:48:47

Test: Bluetooth SAC Transmitter Radiated Emission

S/N: 17520ZN0252

EMC SR ID#: 39731-EMC-00008

Accessory: NA

Test Frequency: 2402.0000 MHz

Test Standard: ANSI C63.10-2013

Worst Case Plane: Z-Plane (BTLE)

Vertical Radiated Emission Result

Horizontal Radiated Emission Result

Remarks:
Pass Result

Marginal Result

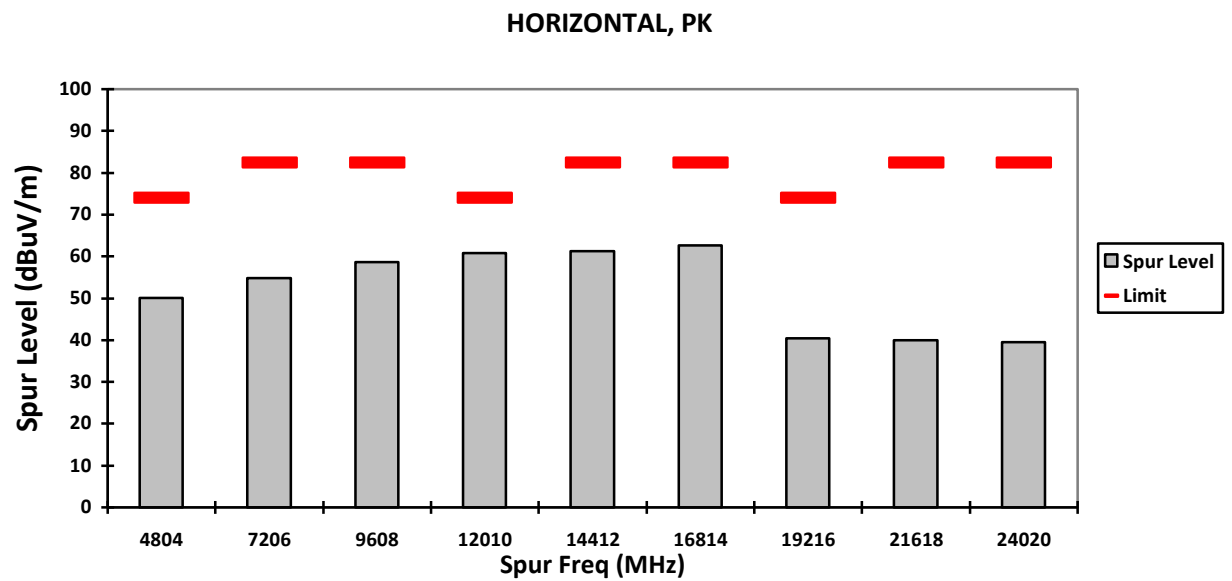
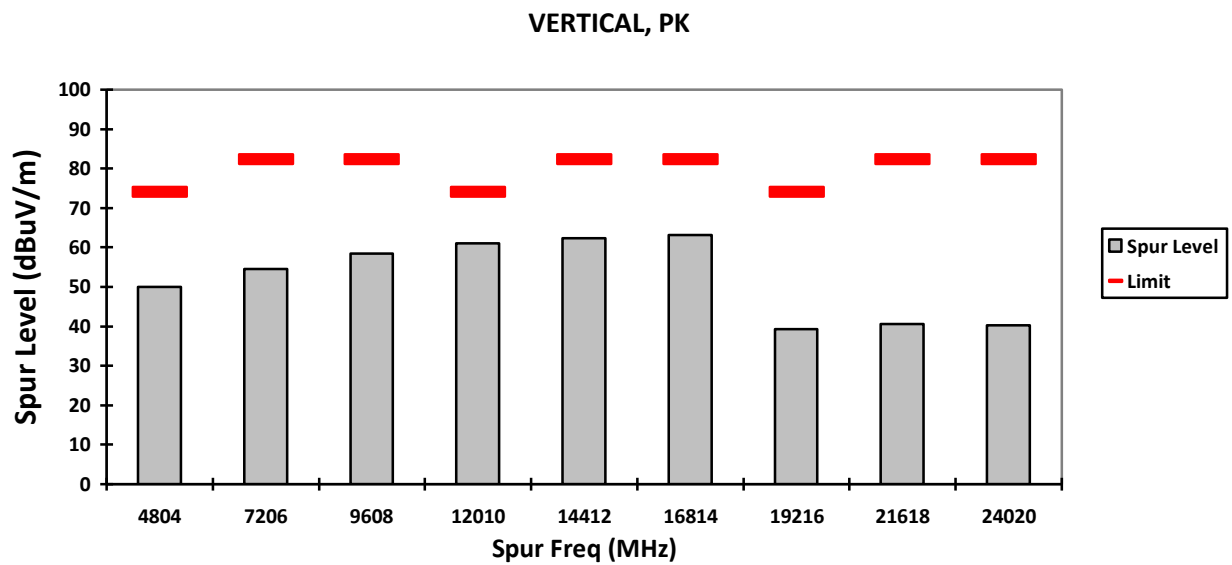
Fail Result

Humidity (%): 56.3

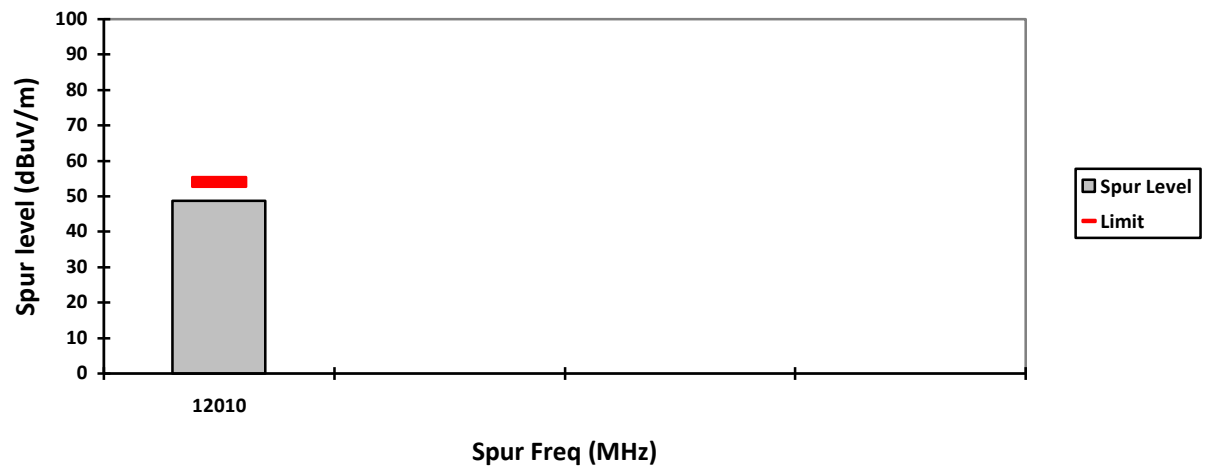
Test Date: Wed, 23 Aug, 2023

System MU: 5.88 dB (30-1000MHz), 5.84 dB (1000-18000MHz), 6.02 dB (18000MHz-40000MHz)

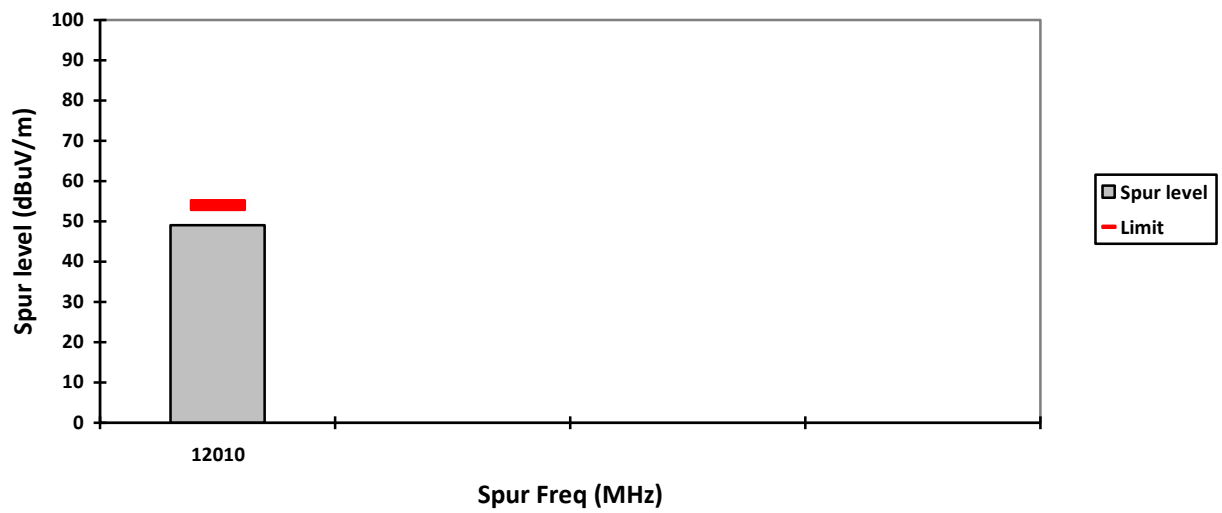
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported.



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission

S/N: 17520ZN0252

EMC SR ID#: 39731-EMC-00008

Accessory: NA

Test Frequency: 2440.0000 MHz

Test Standard: ANSI C63.10-2013

Worst Case Plane: Z-Plane (BTLE)

Vertical Radiated Emission Result

Horizontal Radiated Emission Result

Remarks:
Pass Result

Marginal Result

Fail Result

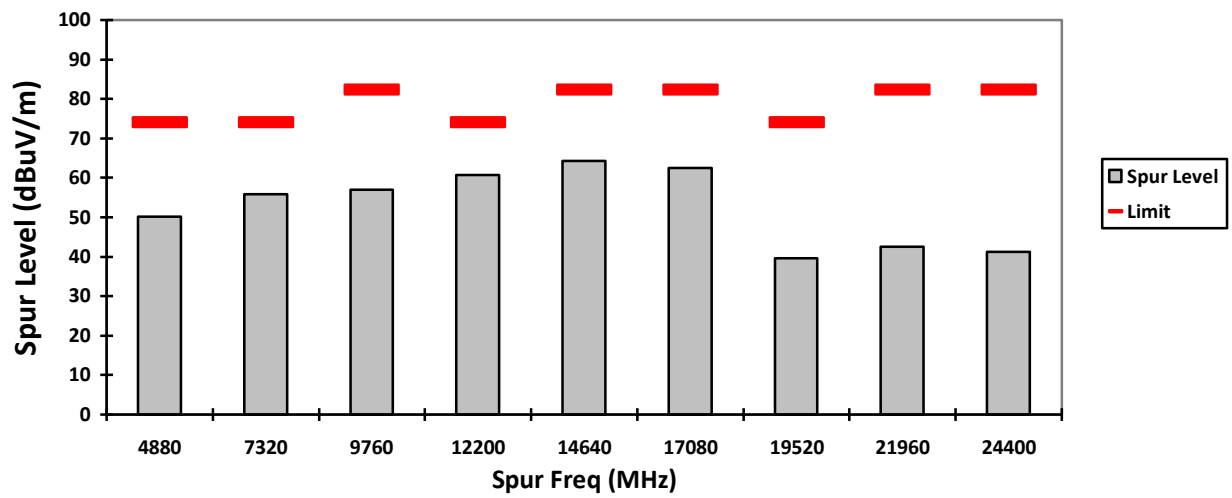
Humidity (%): 56.3

Test Date: Wed, 23 Aug, 2023

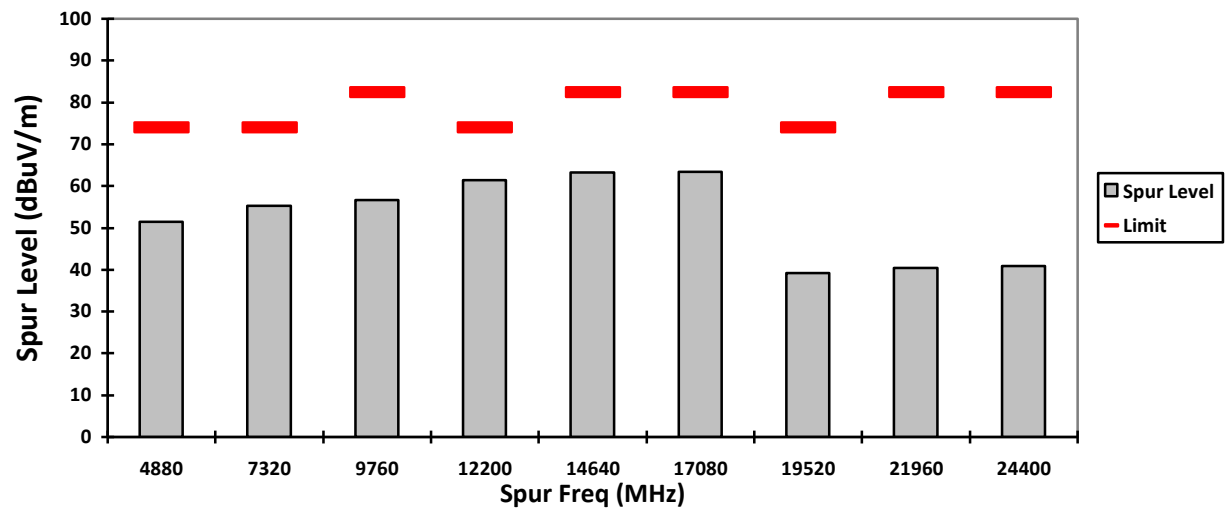
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

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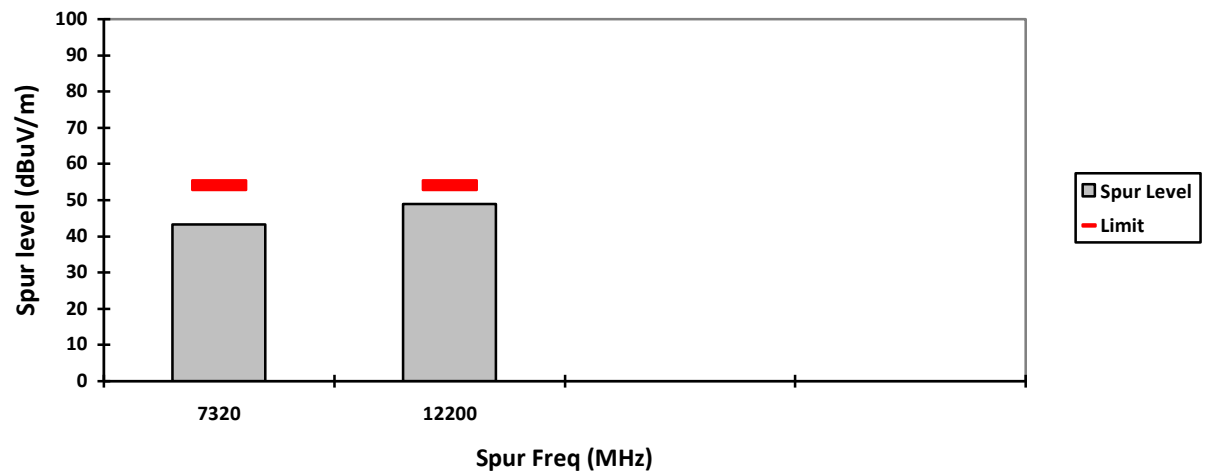
VERTICAL, PK



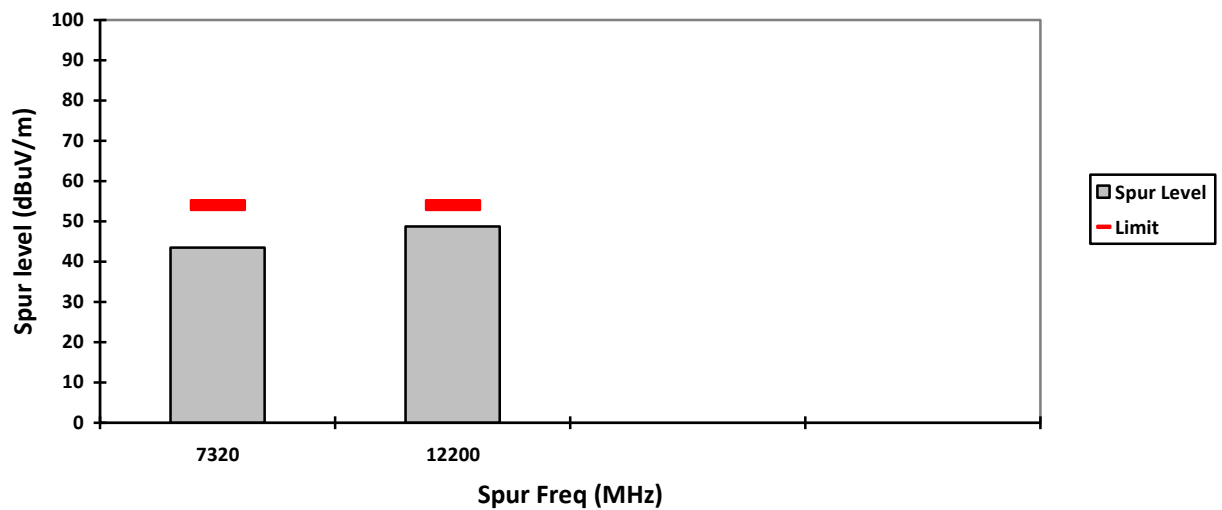
HORIZONTAL, PK



VERTICAL, AV



HORIZONTAL, AV



Test: Bluetooth SAC Transmitter Radiated Emission

S/N: 17520ZN0252

EMC SR ID#: 39731-EMC-00008

Accessory: NA

Test Frequency: 2480.0000 MHz

Test Standard: ANSI C63.10-2013

Worst Case Plane: Z-Plane (BTLE)

Vertical Radiated Emission Result

Horizontal Radiated Emission Result

Remarks:
Pass Result

Marginal Result

Fail Result

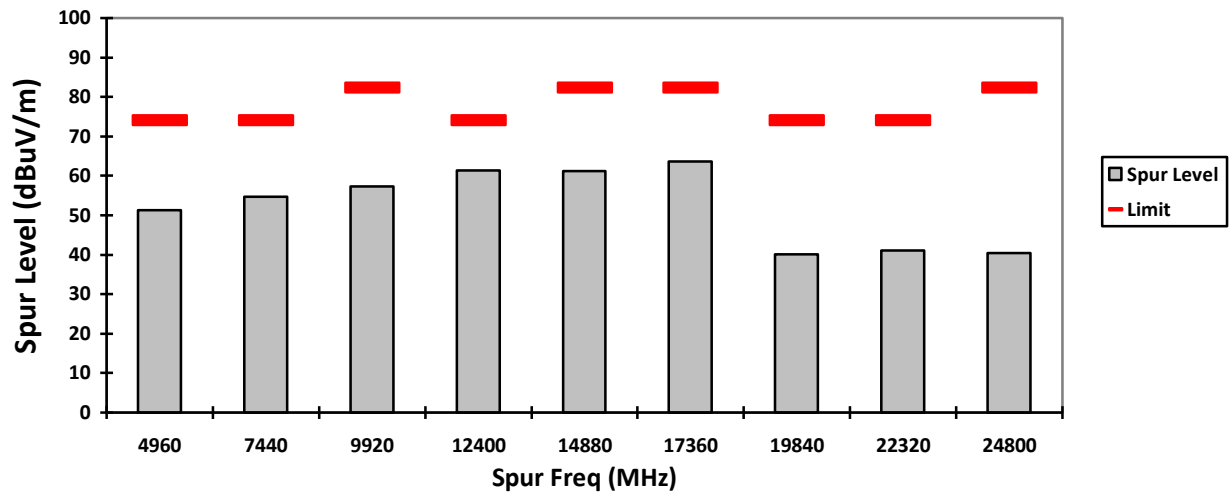
Humidity (%): 56.3

Test Date: Wed, 23 Aug, 2023

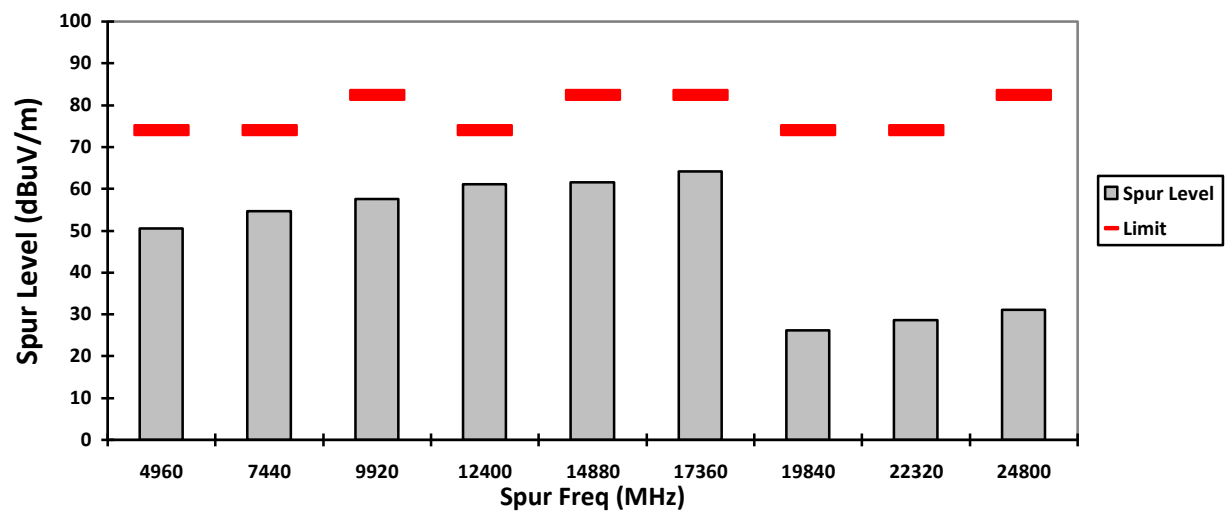
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

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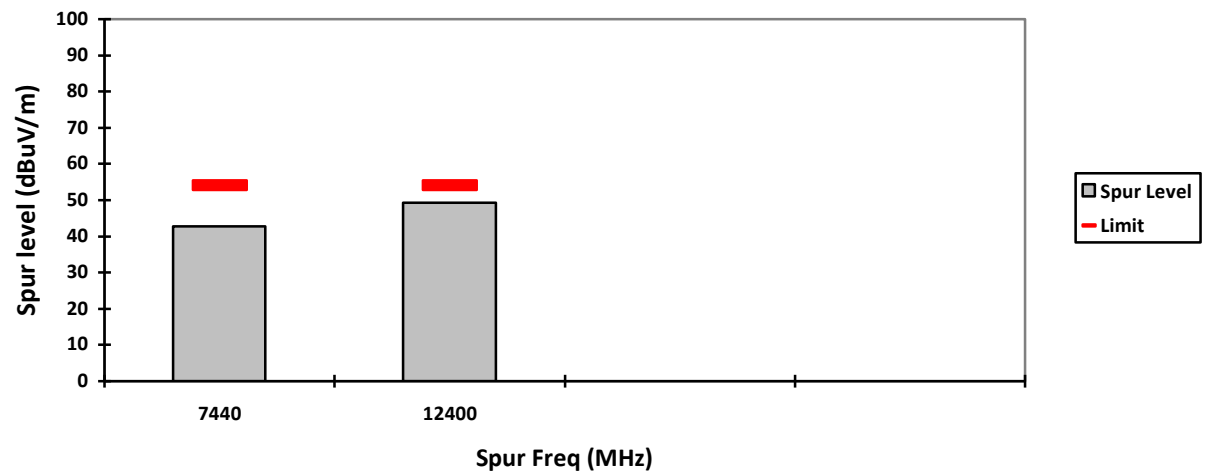
VERTICAL, PK



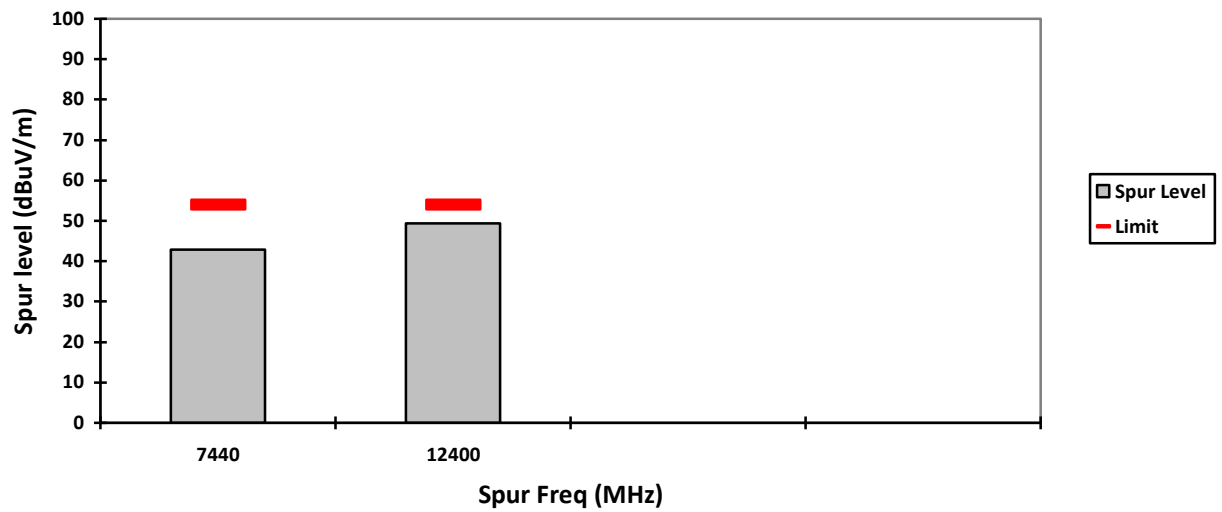
HORIZONTAL, PK



VERTICAL, AV

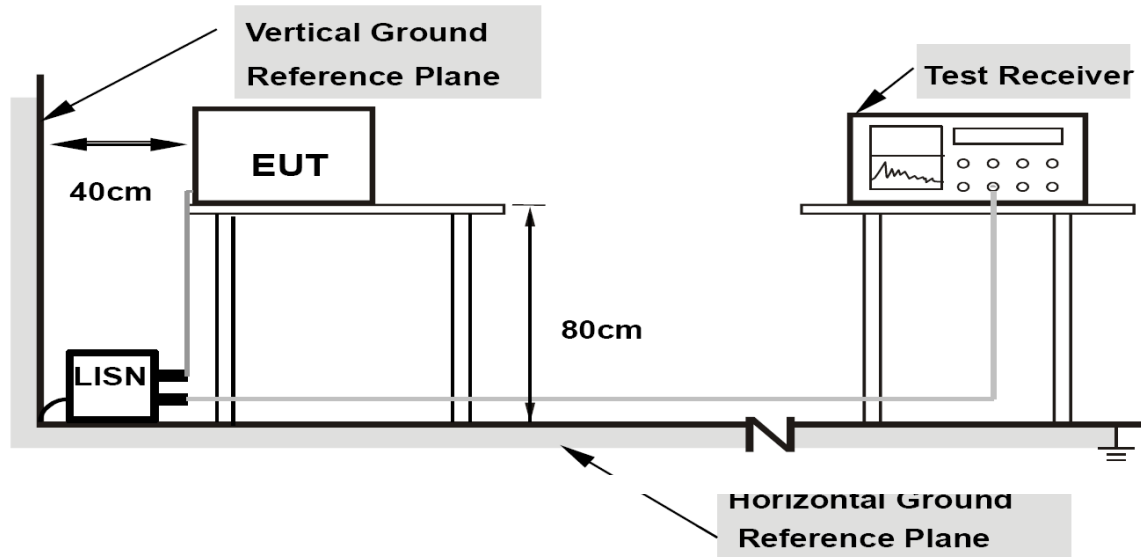


HORIZONTAL, AV



6.7 AC Powerline Conducted Emission

6.7.1 Test Setup



- 1) Tests were conducted for both Receive and Transmit Mode of the EUT.
- 2) The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50uH of coupling impedance for the measuring instrument.
- 3) Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 4) The frequency range from 150 kHz to 30MHz was measured.

6.7.2 Test Limits:

For AC Power Line Conducted Test Limit can be Class A or B depends on product classification.

Limits for conducted disturbance at the mains ports
of class A ITE

Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	79	66
0,50 to 30	73	60

NOTE The lower limit shall apply at the transition frequency.

Table 1: Limits for Conducted Disturbance at the Mains Ports of Class A ITE.

**Limits for conducted disturbance at the mains ports
of class B ITE**

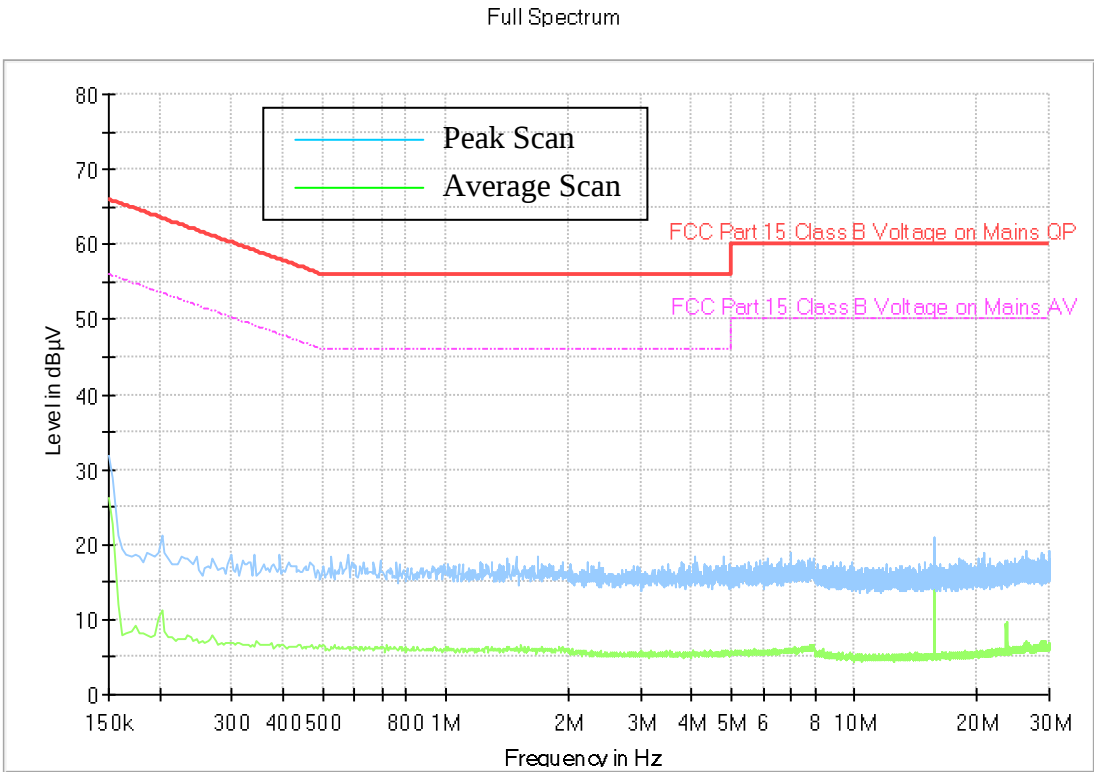
Frequency range MHz	Limits dB(μ V)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50
NOTE 1 The lower limit shall apply at the transition frequencies.		
NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.		

Table 2: Limits for Conducted Disturbance at the Mains Ports of Class B ITE

6.7.3 Test Result

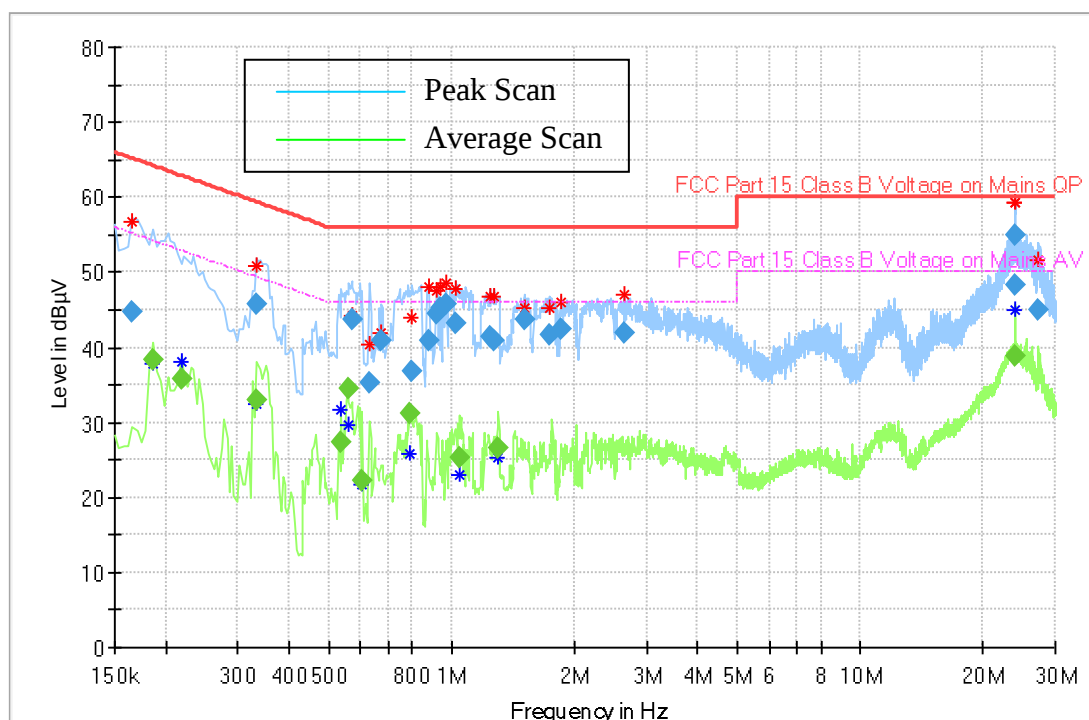
Report ID.:	: 39731-EMC-00018
Ambient Temperature:	: 20.4 °C
Humidity:	: 59.8 %RH
Tester:	: Shidee
Date of test:	: 28 August 2023

1) Ambient



2) Ambient + Charger Laptop

Full Spectrum



Quasipeak and Average Measurement

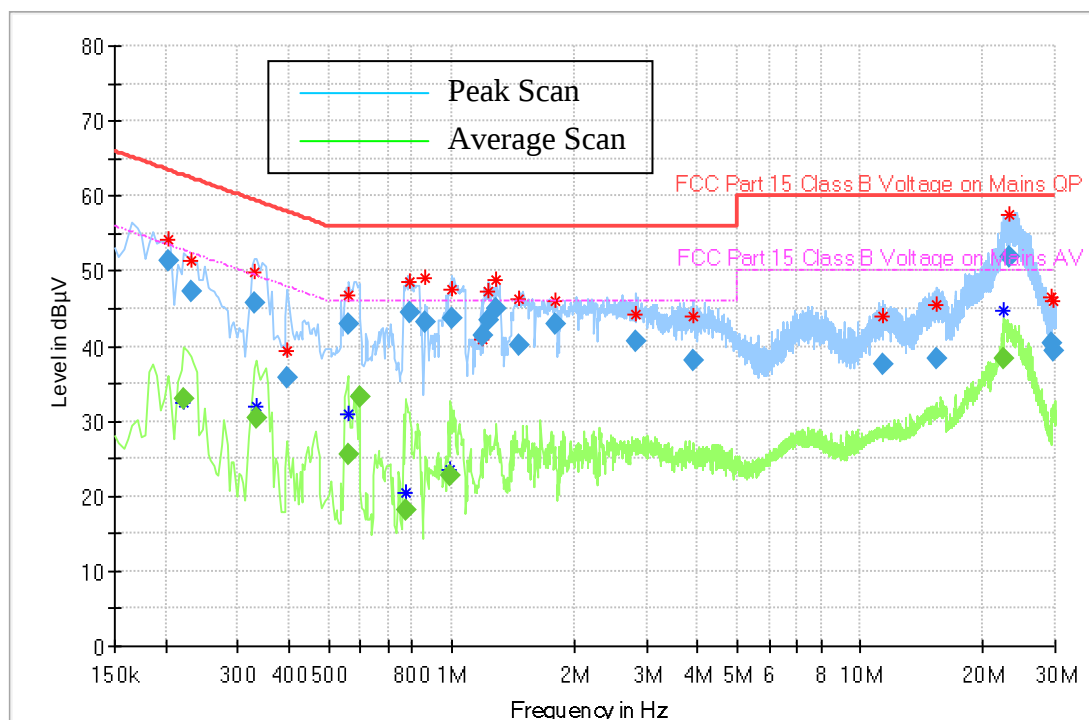
Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.166000	44.65	---	65.16	20.51	1000.0	9.000	N	ON	10.6	Pass
0.186000	---	38.27	54.21	15.94	1000.0	9.000	L1	ON	10.5	Pass
0.218000	---	35.77	52.90	17.13	1000.0	9.000	N	ON	10.3	Pass
0.334000	---	33.03	49.35	16.32	1000.0	9.000	L1	ON	10.3	Pass
0.334000	45.76	---	59.35	13.59	1000.0	9.000	L1	ON	10.3	Pass
0.538000	---	27.41	46.00	18.59	1000.0	9.000	N	ON	10.3	Pass
0.558000	---	34.56	46.00	11.44	1000.0	9.000	N	ON	10.3	Pass
0.570000	43.60	---	56.00	12.40	1000.0	9.000	N	ON	10.3	Pass
0.606000	---	22.20	46.00	23.80	1000.0	9.000	N	ON	10.3	Pass
0.630000	35.15	---	56.00	20.85	1000.0	9.000	N	ON	10.3	Pass
0.674000	40.84	---	56.00	15.16	1000.0	9.000	N	ON	10.3	Pass
0.794000	---	31.26	46.00	14.74	1000.0	9.000	N	ON	10.3	Pass
0.802000	36.68	---	56.00	19.32	1000.0	9.000	L1	ON	10.3	Pass
0.878000	40.94	---	56.00	15.06	1000.0	9.000	N	ON	10.3	Pass
0.922000	44.55	---	56.00	11.45	1000.0	9.000	N	ON	10.3	Pass
0.942000	45.22	---	56.00	10.78	1000.0	9.000	N	ON	10.3	Pass
0.966000	45.63	---	56.00	10.37	1000.0	9.000	N	ON	10.3	Pass
1.026000	43.14	---	56.00	12.86	1000.0	9.000	N	ON	10.2	Pass
1.046000	---	25.26	46.00	20.74	1000.0	9.000	L1	ON	10.2	Pass
1.246000	41.36	---	56.00	14.64	1000.0	9.000	N	ON	10.2	Pass
1.274000	40.96	---	56.00	15.04	1000.0	9.000	N	ON	10.2	Pass
1.302000	---	26.59	46.00	19.41	1000.0	9.000	L1	ON	10.2	Pass
1.510000	43.70	---	56.00	12.30	1000.0	9.000	N	ON	10.2	Pass
1.738000	41.70	---	56.00	14.30	1000.0	9.000	L1	ON	10.2	Pass
1.854000	42.49	---	56.00	13.51	1000.0	9.000	L1	ON	10.2	Pass
2.654000	42.01	---	56.00	13.99	1000.0	9.000	L1	ON	10.3	Pass
23.846000	54.89	---	60.00	5.11	1000.0	9.000	L1	ON	10.4	Pass
23.946000	---	38.77	50.00	11.23	1000.0	9.000	L1	ON	10.4	Pass
23.954000	48.39	---	60.00	11.61	1000.0	9.000	L1	ON	10.4	Pass
27.166000	45.03	---	60.00	14.97	1000.0	9.000	L1	ON	10.4	Pass

* Expanded Uncertainty (U) = +/- 3.48dB

120 Vac, 60Hz

1) Laptop + Charger Alone

Full Spectrum



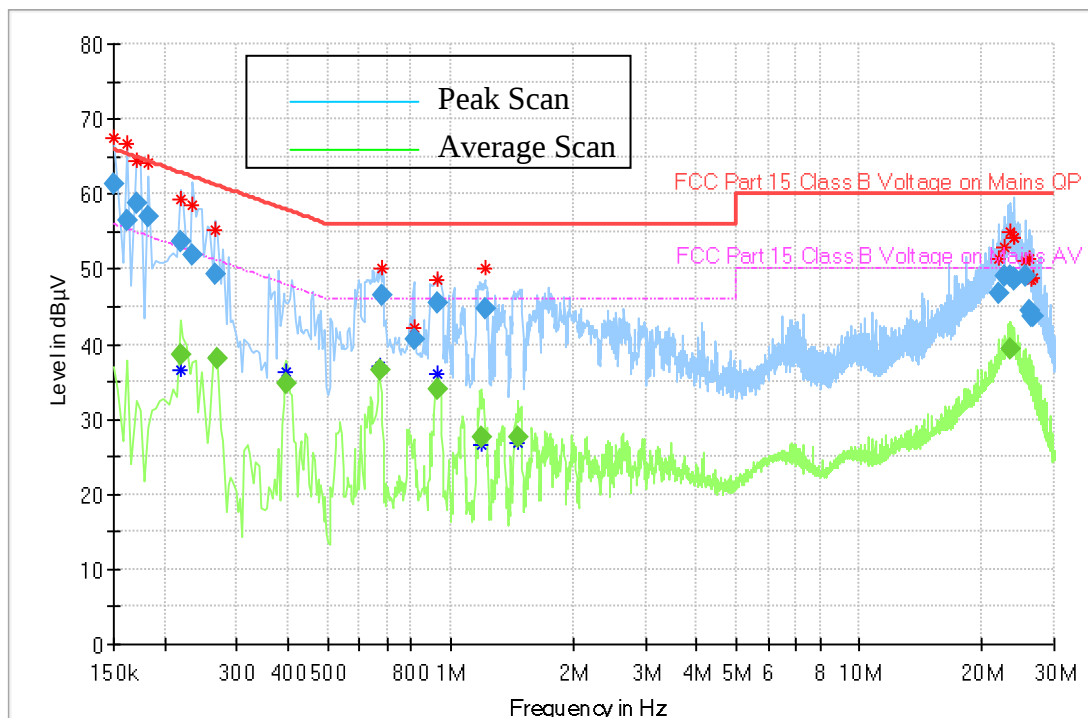
Quasipeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.202000	51.41	---	63.53	12.12	1000.0	9.000	L1	ON	10.4	Pass
0.222000	---	32.86	52.74	19.88	1000.0	9.000	L1	ON	10.3	Pass
0.230000	47.37	---	62.45	15.08	1000.0	9.000	N	ON	10.2	Pass
0.330000	45.78	---	59.45	13.67	1000.0	9.000	L1	ON	10.3	Pass
0.334000	---	30.49	49.35	18.86	1000.0	9.000	L1	ON	10.3	Pass
0.398000	35.89	---	57.90	22.01	1000.0	9.000	L1	ON	10.3	Pass
0.558000	---	25.62	46.00	20.38	1000.0	9.000	N	ON	10.3	Pass
0.562000	42.83	---	56.00	13.17	1000.0	9.000	N	ON	10.3	Pass
0.594000	---	33.23	46.00	12.77	1000.0	9.000	N	ON	10.3	Pass
0.770000	---	18.22	46.00	27.78	1000.0	9.000	L1	ON	10.3	Pass
0.790000	44.48	---	56.00	11.52	1000.0	9.000	N	ON	10.3	Pass
0.862000	43.11	---	56.00	12.89	1000.0	9.000	N	ON	10.3	Pass
0.994000	---	22.68	46.00	23.32	1000.0	9.000	N	ON	10.2	Pass
1.002000	43.78	---	56.00	12.22	1000.0	9.000	N	ON	10.2	Pass
1.186000	41.34	---	56.00	14.66	1000.0	9.000	N	ON	10.2	Pass
1.234000	43.55	---	56.00	12.45	1000.0	9.000	N	ON	10.2	Pass
1.290000	45.02	---	56.00	10.98	1000.0	9.000	N	ON	10.2	Pass
1.466000	40.16	---	56.00	15.84	1000.0	9.000	N	ON	10.2	Pass
1.786000	43.03	---	56.00	12.97	1000.0	9.000	N	ON	10.2	Pass
2.830000	40.63	---	56.00	15.37	1000.0	9.000	L1	ON	10.3	Pass
3.914000	37.99	---	56.00	18.01	1000.0	9.000	N	ON	10.3	Pass
11.358000	37.59	---	60.00	22.41	1000.0	9.000	N	ON	10.3	Pass
15.378000	38.42	---	60.00	21.58	1000.0	9.000	L1	ON	10.3	Pass
22.462000	---	38.38	50.00	11.62	1000.0	9.000	L1	ON	10.4	Pass
23.034000	51.84	---	60.00	8.16	1000.0	9.000	L1	ON	10.4	Pass
29.206000	40.46	---	60.00	19.54	1000.0	9.000	L1	ON	10.4	Pass
29.690000	39.24	---	60.00	20.76	1000.0	9.000	L1	ON	10.4	Pass

* Expanded Uncertainty (U) = +/- 3.48dB

2) Laptop + Charger with Radio Off

Full Spectrum



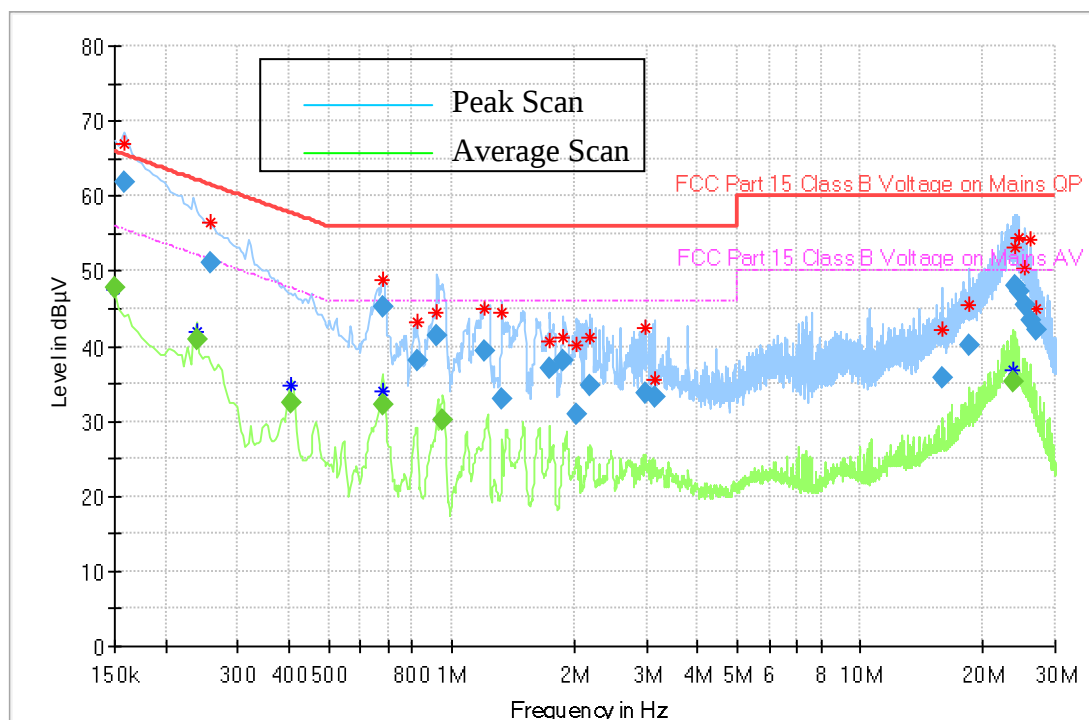
Quasipeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.150000	61.27	---	66.00	4.73	1000.0	9.000	L1	ON	10.3	Pass
0.162000	56.48	---	65.36	8.88	1000.0	9.000	N	ON	10.5	Pass
0.170000	58.88	---	64.96	6.08	1000.0	9.000	N	ON	10.6	Pass
0.182000	57.10	---	64.39	7.30	1000.0	9.000	L1	ON	10.6	Pass
0.218000	53.72	---	62.90	9.17	1000.0	9.000	N	ON	10.3	Pass
0.218000	---	38.56	52.90	14.33	1000.0	9.000	L1	ON	10.3	Pass
0.234000	51.92	---	62.31	10.39	1000.0	9.000	L1	ON	10.2	Pass
0.266000	49.44	---	61.24	11.80	1000.0	9.000	N	ON	10.2	Pass
0.270000	---	38.18	51.12	12.94	1000.0	9.000	L1	ON	10.2	Pass
0.398000	---	34.73	47.90	13.16	1000.0	9.000	N	ON	10.3	Pass
0.670000	---	36.54	46.00	9.46	1000.0	9.000	N	ON	10.3	Pass
0.682000	46.47	---	56.00	9.53	1000.0	9.000	N	ON	10.3	Pass
0.814000	40.55	---	56.00	15.45	1000.0	9.000	N	ON	10.3	Pass
0.934000	---	33.97	46.00	12.03	1000.0	9.000	N	ON	10.3	Pass
0.934000	45.61	---	56.00	10.39	1000.0	9.000	N	ON	10.3	Pass
1.186000	---	27.67	46.00	18.33	1000.0	9.000	N	ON	10.2	Pass
1.214000	44.80	---	56.00	11.20	1000.0	9.000	N	ON	10.2	Pass
1.462000	---	27.49	46.00	18.51	1000.0	9.000	N	ON	10.2	Pass
21.970000	46.65	---	60.00	13.35	1000.0	9.000	L1	ON	10.4	Pass
22.630000	49.10	---	60.00	10.90	1000.0	9.000	L1	ON	10.4	Pass
23.462000	49.10	---	60.00	10.90	1000.0	9.000	L1	ON	10.4	Pass
23.482000	---	39.42	50.00	10.58	1000.0	9.000	L1	ON	10.4	Pass
23.818000	48.92	---	60.00	11.08	1000.0	9.000	L1	ON	10.4	Pass
24.034000	48.46	---	60.00	11.54	1000.0	9.000	L1	ON	10.4	Pass
25.610000	49.01	---	60.00	10.99	1000.0	9.000	L1	ON	10.4	Pass
26.014000	44.44	---	60.00	15.56	1000.0	9.000	L1	ON	10.4	Pass
26.326000	43.71	---	60.00	16.29	1000.0	9.000	L1	ON	10.4	Pass
26.774000	43.75	---	60.00	16.25	1000.0	9.000	L1	ON	10.4	Pass

* Expanded Uncertainty (U) = +/- 3.48dB

3) Laptop + Charger with Radio Standby

Full Spectrum



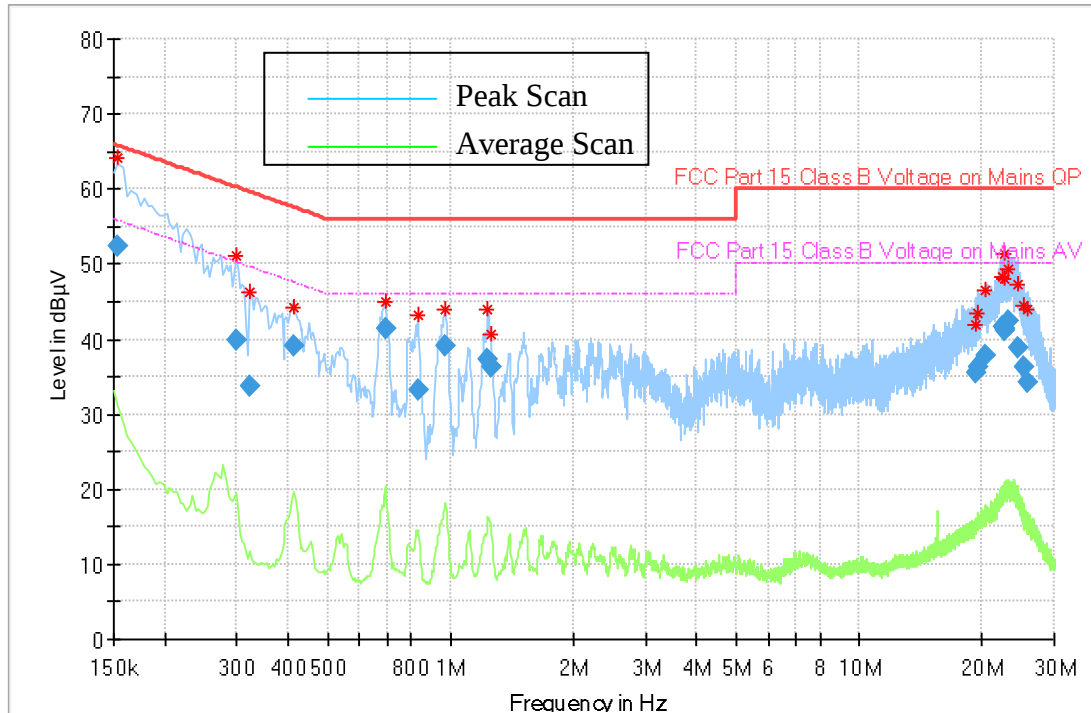
Quasipeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.150000	---	47.74	56.00	8.26	1000.0	9.000	L1	ON	10.3	Pass
0.158000	61.77	---	65.57	3.80	1000.0	9.000	L1	ON	10.5	Pass
0.238000	---	41.01	52.17	11.15	1000.0	9.000	L1	ON	10.2	Pass
0.258000	51.11	---	61.50	10.39	1000.0	9.000	L1	ON	10.2	Pass
0.406000	---	32.57	47.73	15.16	1000.0	9.000	N	ON	10.3	Pass
0.678000	45.19	---	56.00	10.81	1000.0	9.000	N	ON	10.3	Pass
0.678000	---	32.28	46.00	13.72	1000.0	9.000	N	ON	10.3	Pass
0.822000	38.17	---	56.00	17.83	1000.0	9.000	N	ON	10.3	Pass
0.922000	41.38	---	56.00	14.62	1000.0	9.000	N	ON	10.3	Pass
0.954000	---	30.24	46.00	15.76	1000.0	9.000	N	ON	10.3	Pass
1.198000	39.45	---	56.00	16.55	1000.0	9.000	N	ON	10.2	Pass
1.330000	32.92	---	56.00	23.08	1000.0	9.000	N	ON	10.2	Pass
1.734000	37.00	---	56.00	19.00	1000.0	9.000	N	ON	10.2	Pass
1.878000	38.09	---	56.00	17.91	1000.0	9.000	N	ON	10.2	Pass
2.026000	30.93	---	56.00	25.07	1000.0	9.000	L1	ON	10.2	Pass
2.174000	34.65	---	56.00	21.35	1000.0	9.000	L1	ON	10.2	Pass
2.986000	33.66	---	56.00	22.34	1000.0	9.000	L1	ON	10.3	Pass
3.150000	33.33	---	56.00	22.67	1000.0	9.000	L1	ON	10.3	Pass
15.950000	35.84	---	60.00	24.16	1000.0	9.000	L1	ON	10.3	Pass
18.442000	40.01	---	60.00	19.99	1000.0	9.000	L1	ON	10.4	Pass
23.618000	---	35.36	50.00	14.64	1000.0	9.000	L1	ON	10.4	Pass
24.034000	48.02	---	60.00	11.98	1000.0	9.000	L1	ON	10.4	Pass
24.538000	47.40	---	60.00	12.60	1000.0	9.000	L1	ON	10.4	Pass
25.350000	45.44	---	60.00	14.56	1000.0	9.000	L1	ON	10.4	Pass
26.166000	43.47	---	60.00	16.53	1000.0	9.000	L1	ON	10.4	Pass
26.978000	42.18	---	60.00	17.82	1000.0	9.000	L1	ON	10.4	Pass

* Expanded Uncertainty (U) = +/- 3.48dB

4) Laptop + Charger with Radio Tx BT L.E.

Full Spectrum



Quasipeak and Average Measurement

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)	Comment
0.154000	52.47	---	65.78	13.32	1000.0	9.000	N	ON	10.4	Pass
0.298000	39.88	---	60.30	20.42	1000.0	9.000	L1	ON	10.2	Pass
0.322000	33.71	---	59.66	25.95	1000.0	9.000	N	ON	10.3	Pass
0.414000	39.07	---	57.57	18.50	1000.0	9.000	L1	ON	10.3	Pass
0.694000	41.51	---	56.00	14.49	1000.0	9.000	N	ON	10.3	Pass
0.830000	33.24	---	56.00	22.76	1000.0	9.000	N	ON	10.3	Pass
0.970000	39.18	---	56.00	16.82	1000.0	9.000	N	ON	10.3	Pass
1.234000	37.30	---	56.00	18.70	1000.0	9.000	N	ON	10.2	Pass
1.254000	36.27	---	56.00	19.73	1000.0	9.000	N	ON	10.2	Pass
19.178000	35.56	---	60.00	24.44	1000.0	9.000	L1	ON	10.4	Pass
19.386000	36.27	---	60.00	23.73	1000.0	9.000	L1	ON	10.4	Pass
20.406000	37.90	---	60.00	22.10	1000.0	9.000	L1	ON	10.4	Pass
22.438000	41.55	---	60.00	18.45	1000.0	9.000	L1	ON	10.4	Pass
22.638000	41.23	---	60.00	18.77	1000.0	9.000	L1	ON	10.4	Pass
22.766000	41.49	---	60.00	18.51	1000.0	9.000	L1	ON	10.4	Pass
23.250000	42.36	---	60.00	17.64	1000.0	9.000	L1	ON	10.4	Pass
24.470000	38.88	---	60.00	21.12	1000.0	9.000	L1	ON	10.4	Pass
25.234000	36.29	---	60.00	23.71	1000.0	9.000	L1	ON	10.4	Pass
25.894000	34.31	---	60.00	25.69	1000.0	9.000	L1	ON	10.4	Pass

* Expanded Uncertainty (U) = +/- 3.48dB

END OF TEST REPORT