

Prüfbericht-Nr.: <i>Test report no.:</i>	ULR-TC56882030000062F	Auftrags-Nr.: <i>Order no.:</i>	166481246 0050	Seite 1 von 40 Page 1 of 40
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	NA	Auftragsdatum: <i>Order date:</i>	2020-11-09	
Auftraggeber: <i>Client:</i>	Johari Digital Health care Ltd. G 582-584, EPIP, Boranada, Jodhpur (Raj.) - 342012			
Prüfgegenstand: <i>Test item:</i>	Face and neck muscle stimulator			
Bezeichnung .: <i>Identification .:</i>	Myolift QT			
Auftrags-Inhalt: <i>Order content:</i>	Testing and issue of Test Report and FCC Grant Certificate			
Prüfgrundlage: <i>Test specification:</i>	FCC Part 15 Subpart C 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2020-11-04			
Prüfmuster-Nr & Serien-Nr.: <i>Test sample no & serial n.:</i>	A002942542-001 A002942542-004 & 2060007-Radiated Sample MYOAPP032- Conducted Sample			
Prüfzeitraum: <i>Testing period:</i>	2020-11-05 - 2020-11-09			
Ort der Prüfung: <i>Place of testing:</i>	Wireless laboratory, Bangalore			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (India) Pvt. Ltd. 27/B,2nd cross road, Electronic city Phase1, Bangalore-560100, India FCC Test Site Registration No: 496599			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2020-11-05	Ausstellatum: <i>Issue date:</i> 2020-12-11			
Stellung / Position: Srinivas B R Engineer	Stellung / Position: Mahammadgouse Kaladagi Assitant Manager			
Sonstiges / Other:	FCC ID: 2AXPQ-MQT			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				



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TEST SUMMARY

Test Item	Applicable Standard	Result
	FCC	
Maximum conducted (average) output power	FCC 15.247(b)(3)	Pass
Maximum Power Spectral Density	FCC 15.247(e)	Pass
DTS Bandwidth	FCC 15.247(a)(2)	Pass
Emissions in non-restricted frequency bands	FCC 15.247(d)	Pass
Spurious Radiated Emissions and Restricted Bands of Operation	FCC 15.209 / FCC 15.205	Pass
Conducted Emissions on a.c Power Lines	FCC 15.207	Pass

Product Category: Electronics Testing
Test Discipline: EMC Test Facility

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REVISION HISTORY OF THIS REPORT

Report Number	Version	Description	Issue date
ULR-TC568820300000062F	1.0	Initial issue of report	2020-12-08
ULR-TC568820300000062F	2.0	Updated as per reviewer comments	2020-12-11

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1 GENERAL REMARKS

1.1 Attachments

All attachments are part of this test report and are issued in separate document

- 1: TEST SETUP PHOTOS
- 2: EUT EXTERNAL PHOTOS
- 3: EUT INTERNAL PHOTOS
- 4: FCC LABEL AND LABEL LOCATION
- 5: BLOCK DIAGRAM
- 6: SPECIFICATION OF EUT
- 7: SCHEMATIC DIAGRAM
- 8: BILL OF MATERIAL
- 9: USER MANUAL
- 10: MAXIMUM PERMISSIBLE EXPOSURE INFORMATION

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2 TEST SITES

2.1 Testing Facilities

1. TÜV Rheinland (India) Pvt.Ltd.,
27/B, 2nd Cross,
ElectronicCityPhase1
Bangalore – 560 100,
India
2. TUV Rheinland (India) Private Limited
108 , Beside ISBR Business School,
Electronic city Phase I
Bangalore - 560 100.
India

2.2 List of Test and Measurement Instruments

Table 1: List of test and measurement instruments

Equipment	Manufacturer	Model Name	Serial Number	Firmware Versions	Calibration Due Date	Periodicity	Test Facility
EMI Receiver	Rohde & Schwarz	ESU 40	100288	4.43 SP3	11.10.2021	Yearly	Radiated Spurious Emission
Active loop antenna	Frankonia	LAX-10	LAX-10-800	-	16.07.2021	Yearly	
Baloon and Biconical Antenna	Schwarzbeck mess-elektronik	VHBB-9124 / BBA-9106	01028	-	02.09.2021	Yearly	
Log – Periodic Antenna	Schwarzbeck mess-elektronik	VUSLP-9111B	9111B-111	-	31.08.2021	Yearly	
Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-1944	-	17.07.2021	Yearly	
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-0904	-	29.01.2021	Yearly	
Semi Anechoic Chamber	Frankonia	-	-	-	-	-	
Fully Anechoic Chamber	Albatross	-	-	-	-	-	
Spectrum Analyser	Agilent Technologies	E4407B	US41192 772	A.14.06	10.08.2021	Yearly	Antenna - Port Measurements
EMI Receiver	Rohde & Schwarz	ESW 44	101732	-	10.12.2020	Yearly	AC Power line conducted emission
LISN	Rohde & Schwarz	ENV 216	100022	-	05.09.2020	Yearly	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100811	-	05.08.2021	Yearly	

Table 2: Instrument application Software versions

SL. No.	Test Type	Application software	Version
1	Radiated spurious emission measurement in SAC	EMC 32	10.60.00
2	Radiated spurious emission measurement in FAC	EMC 32	10.60.00

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

The MyoliftQT is a micro current, handheld, and mobile application-based device. The application is used in this device to support both the type of users (iPhone®/Android™).

Myolift QT is indicated to be used for:

- Face and neck muscle stimulation for cosmetic purposes

This device gives the user a unique combination of erases and educates waveforms, due to that the user will get an effective skincare treatment. This skin treatment reprograms the muscle into a relaxing state to lengthen the muscle and minimize the fine lines and wrinkles on the skin and gives the user a glowing face.

3.2 Ratings and System Details of Equipment under Test

Table 3: Ratings and System Details as declared by Client*

Radio Protocol		BLE
Operating Frequency Range		2402MHz to 2480 MHz
No. of Channels		40 (Refer Table 6)
Channel Spacing		2MHz
Maximum transmitted power(dBm)		0 dBm
Data rate supported		2 Mbps *
Maximum measured Conducted Output Power (dBm)		-7.11dBm (2Mbps 2480MHz)
Maximum Measured Power (e.i.r.p)		-6.61 dBm (2Mbps 2480MHz)
Modulation		FSK
Number of antennas		1
Antenna Gain		0.5 dBi
Antenna Type		High Frequency Ceramic 2.4GHz Mini Antenna
Supply Voltage to Product		3.0V DC
Environmental conditions	Storage	-30°C to +60°C Relative Humidity 5% non-condensing at +30°C 86°F)
	Operating	0°C to + 40°C Relative Humidity 5% non-condensing at +30°C (+86°F)
EUT Dimension(L X W X H)		6.70" L x1.85" W x 1.60" H.(Inches)

*Note: The product only supports data rate of 2Mbps, whereas the module feature of 1Mbps data rate is disabled and not used in the product

***Disclaimer:** The information/data is supplied by the client and the same is considered to arrive at the final value. Any changes made apart from the specified specification, can directly impact on the tests results. Refer the products user manual for more details.

3.3 Measurement Uncertainty:

Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of $k = 2$

Table 4: Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 5 \%$
RF output power, conducted	$\pm 1.5 \text{ dB}$
Power Spectral Density, conducted	$\pm 3 \text{ dB}$
Unwanted Emissions, conducted	$\pm 3 \text{ dB}$
All emissions, radiated	$\pm 6 \text{ dB}$
Temperature	$\pm 3 \text{ }^{\circ}\text{C}$
Supply Voltages	$\pm 3 \%$
Time	$\pm 5 \%$

Note: The Listed Measurement Uncertainties are the worst-case uncertainty, for the respective test cases. Above Table is for reporting purpose only and not used in determining Final Pass/Fail verdict.

4 TEST SET-UP AND OPERATION MODE

4.1 Principle of Configuration Selection

Transmission was enabled with highest possible duty cycle transmission on low, mid and high channel.

4.2 Test Operation and Test Software

Hardware Version (HVIN) : Drw#1310, Rev#2.0
Test Firmware name & Version: 4.1.0.0
Software Version : 0.2.0

4.3 Special Accessories and Auxiliary Equipment

- None

4.4 Countermeasures to achieve EMC Compliance

- None

4.5 List of frequencies

Frequency Band (GHz)	Channel No.	Frequency (MHz)
BLE (2.4-2.4835)	0	2402
	1	2404
	2	2406
	3	2408
	:	:
	:	:
	18	2438
	19	2440
	20	2437
	:	:
	:	:
	36	2474
	37	2476
	38	2478
	39	2480

Table 5: List of BLE Center frequencies

Channel used for BLE testing

Channel low : 2402MHz

Channel mid : 2440MHz

Channel High : 2480MHz

Note:

TUV Sample Identification number : A002942542-001 - Radiated test Sample
A002942542-004 - Conducted test Sample

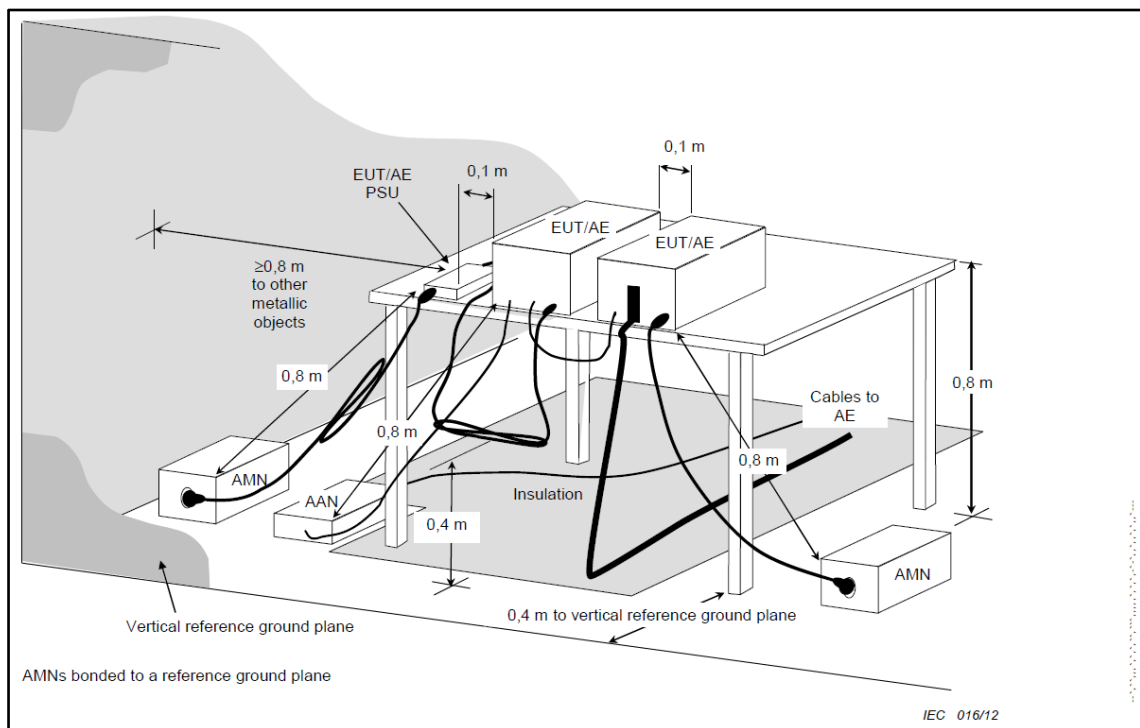
5 TEST METHODOLOGY

5.1 Conducted Spurious Emission Test on AC Power Line

Measured levels of ac power-line conducted emission across the 50Ω LISN port (to which the EUT is connected). All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer.

The device is placed on the test table, raised 80cm above the reference ground plane. The vertical conducting plane is located 40cm to the rear of the device. AC Conducted emission measurement is made over frequency range from 150kHz to 30MHz, this measurement was performed with EUT powered by 2 methods and both methods are tested individually, one with an AC adaptor with 110V AC 60Hz supply and second with Wireless charger with supply 110V AC 60Hz.

5.1.1 Test Setup Configuration



5.2 Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1 GHz & 1.5 m height for above 1 GHz measurement, and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000 MHz was performed by horn antenna, The measurement below 30 MHz was performed by loop antenna, Measurement from 30 MHz to 200 MHz was performed by Baloon and Biconical Antenna, and measurement from 200 MHz to 1 GHz was performed by Log-Periodic Antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded

5.2.1 Test Setup Configuration

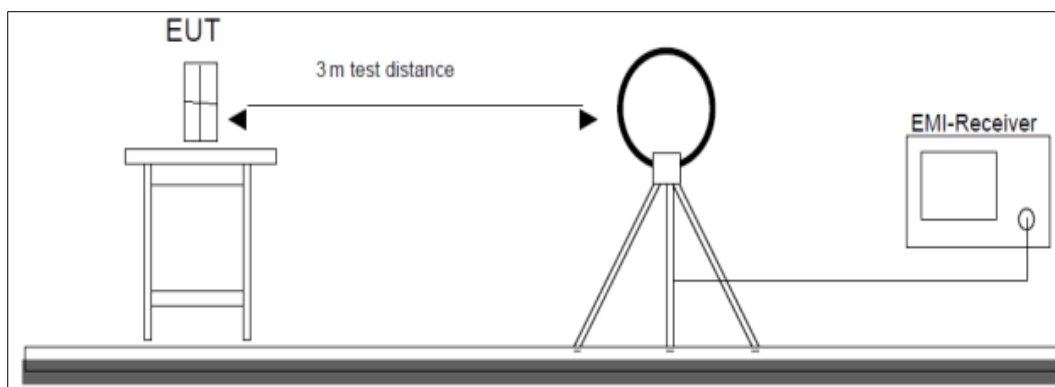


Figure 1: Frequency Range 9 kHz- 30 MHz

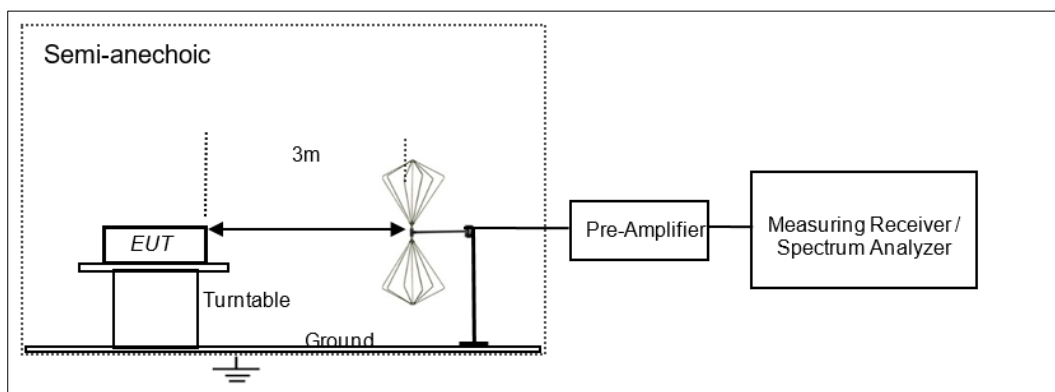


Figure 2: Frequency Range 30 MHz – 200 MHz

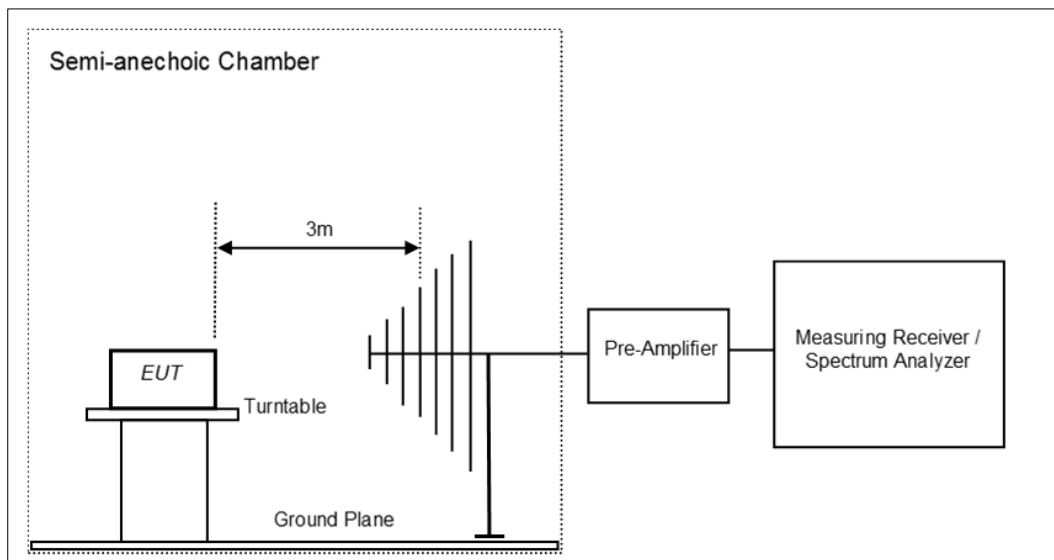


Figure 3: Frequency Range 200 MHz - 1GHz

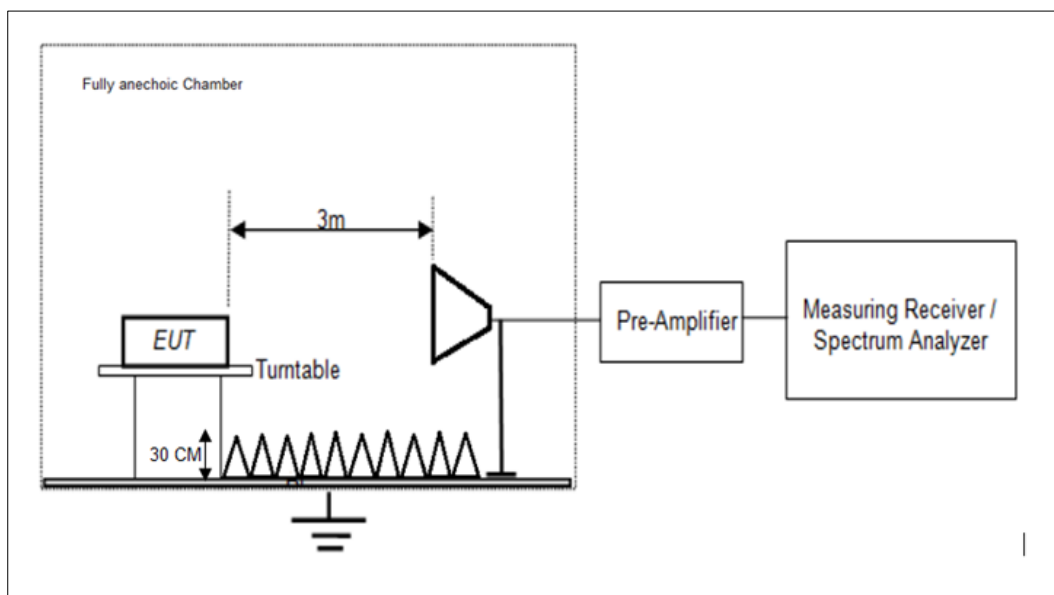


Figure 4: Frequency Range above 1 GHz

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6 TEST RESULTS FOR BLUETOOTH LOW ENERGY

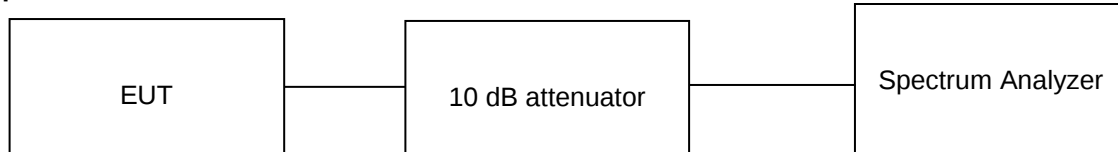
6.1 Maximum Peak Conducted Output Power

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (b)(3)
Test Method	Subclause 11.9.1.1 of ANSI C63.10
Measurement Bandwidth	3 MHz
Detector	Peak
Port of testing	Antenna port
Requirement	Power $\leq$ 1 W (30 dBm)

Test setup:



Test Condition

Normal Test Condition:

Temperature (Norm) = + 23.5 °C Voltage = 3.0V DC (Battery powered) Relative humidity: 68%

KDB Guidelines applied:

Measurements were made as per section 8.3.1 in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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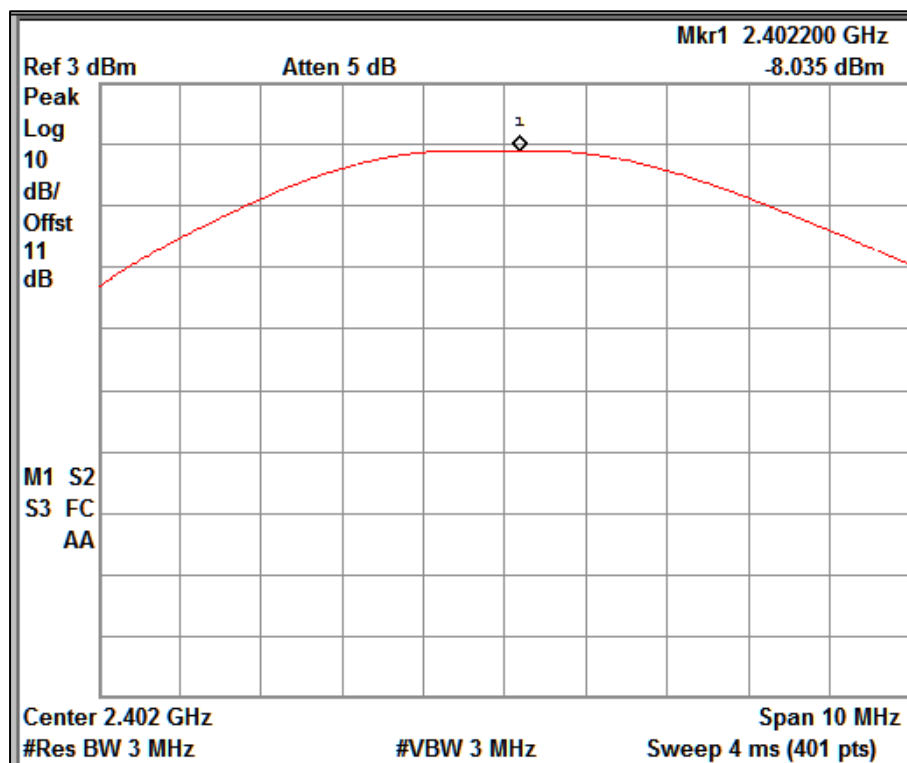
Test results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Total Peak Output power (dBm) = Measured Peak power (dBm) + Attenuator factor (10dB) + Cable loss (1 dB)
3. This product do not support additional beamforming gain, it uses single chip antenna with the directional gain of 0.5 dBi.
4. Maximum (e.i.r.p) = Maximum Peak output power (dBm) + antenna gain (0.5 dBi)

Transmitted power level: + 0dBm

Data Rate (Mbps)	Channel Frequency (MHz)	Maximum measured Peak Conducted Output Power (dBm)	EIRP (dBm)	Limit (dBm)
2	2402	-8.03	-7.53	30
	2440	-8.01	-7.51	30
	2480	-7.11	-6.61	30

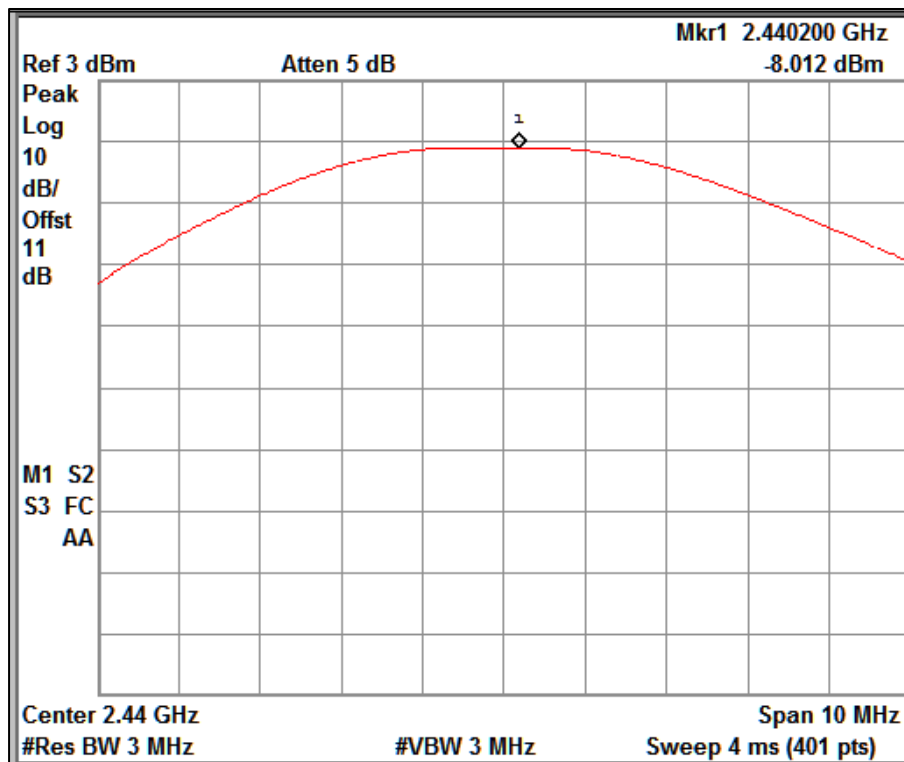


Channel Frequency: 2402MHz

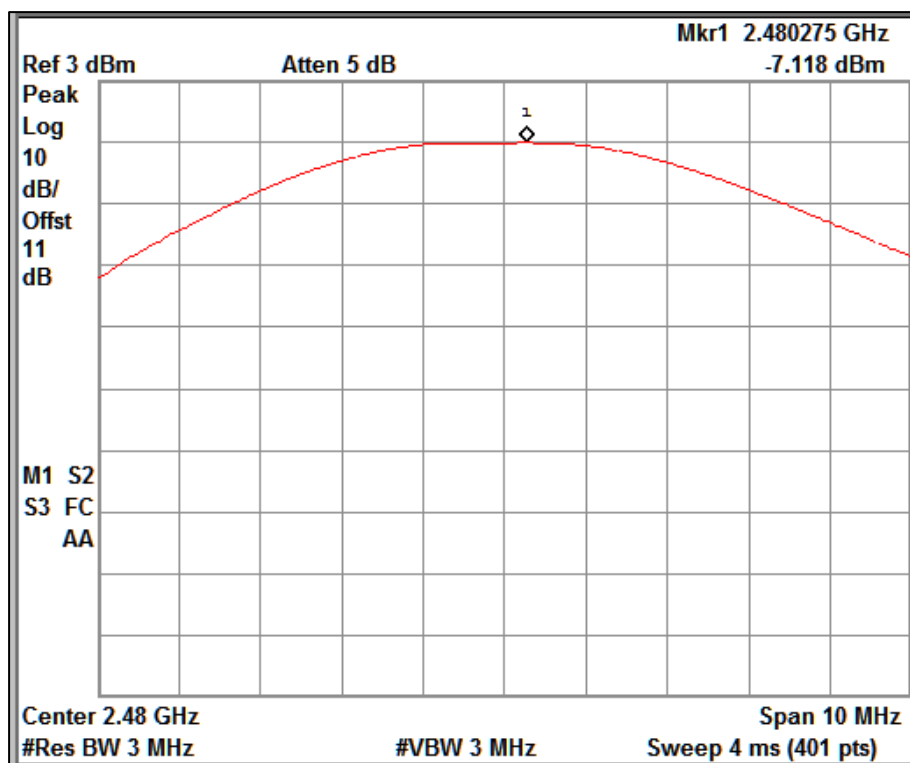
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Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

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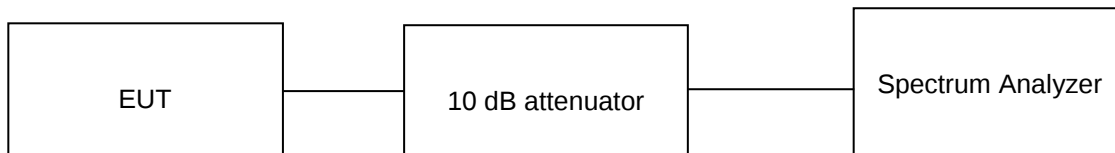
6.2 Maximum Power Spectral Density

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (e)
Test Method	Subclause 11.10.2 of ANSI C63.10
Measurement Bandwidth	3 kHz
Detector	Peak detector
Port of testing	Antenna port
Requirement	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm

Test Setup:



Test Condition

Normal Test Condition:

Temperature (Norm) = + 23.5 °C Voltage = 3.0V DC (Battery powered) Relative humidity: 68%

KDB Guidelines applied:

Measurements were made as per section 8.4 in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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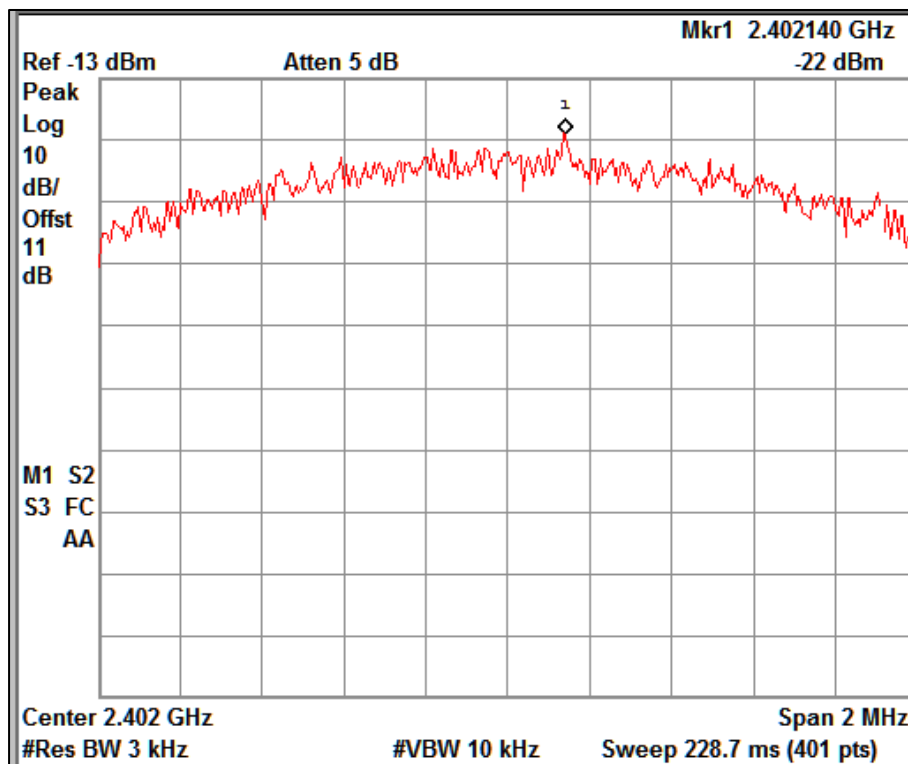
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Test results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Total Peak PSD (dBm) = Measured Peak PSD (dBm) + Attenuator factor (10dB) + Cable loss (1 dB)
3. This product do not support additional beamforming gain, it uses single chip antenna with the directional gain of 0.5 dBi .

Data Rate (Mbps)	Channel Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
2	2402	-22.00	8
	2440	-23.69	8
	2480	-22.13	8

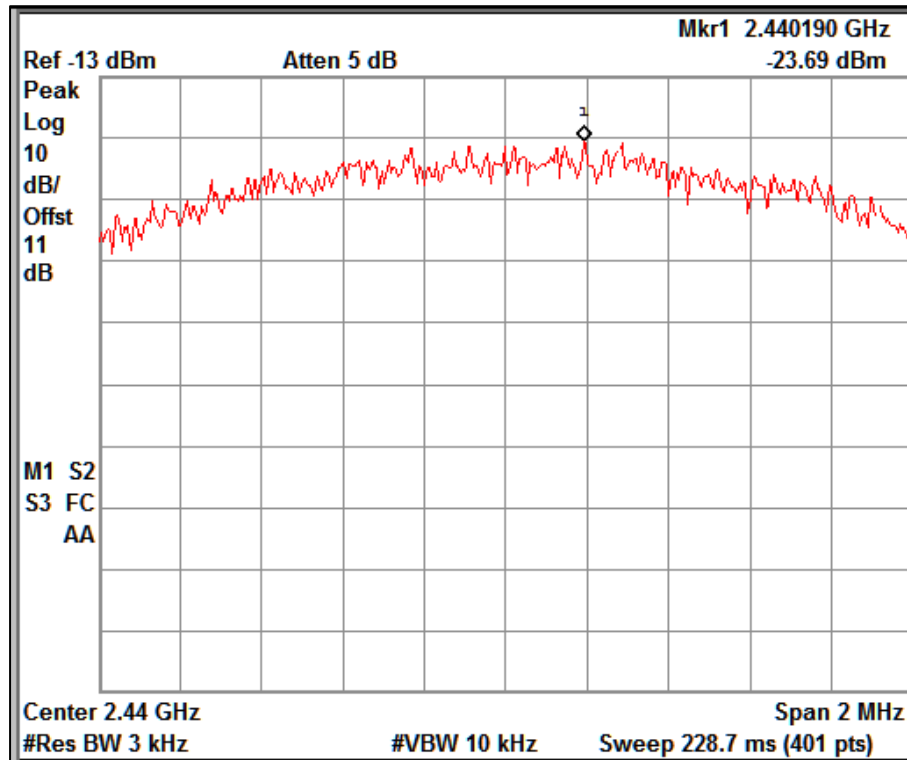


Channel Frequency: 2402MHz

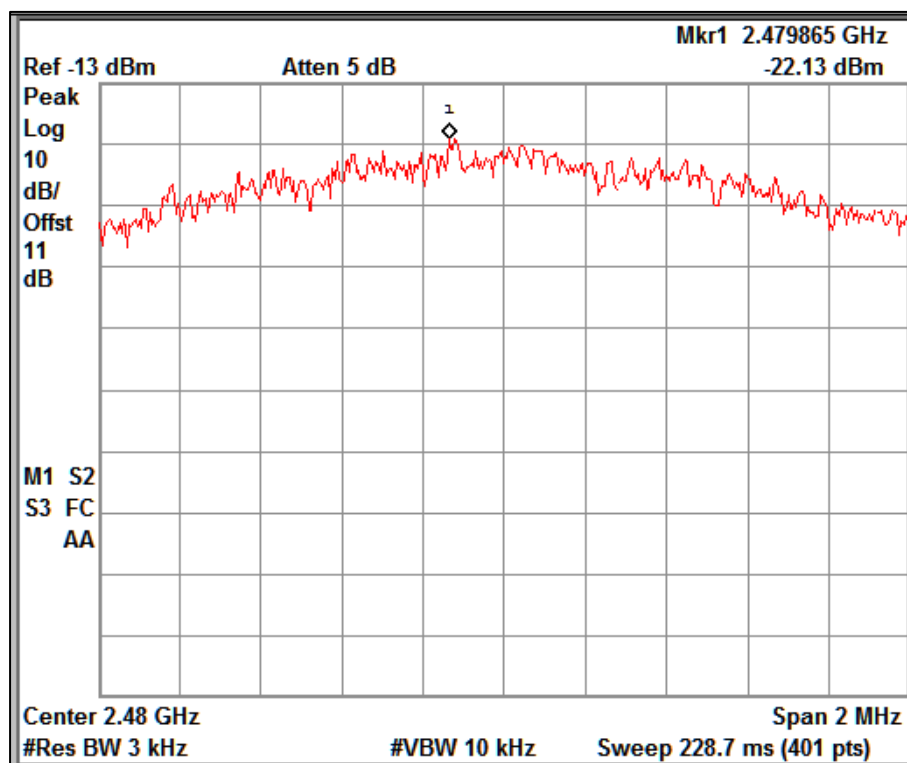
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Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

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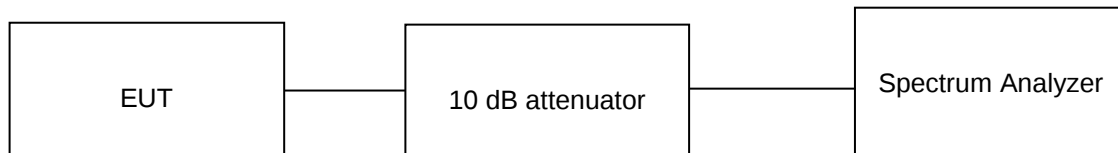
6.3 DTS Bandwidth

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (a) (2)
Test Method	Subclause 11.8 of ANSI C63.10
Measurement Bandwidth	100 kHz
Detector	Peak
Port of testing	Antenna port
Requirement	The minimum 6 dB bandwidth shall be at least 500 kHz

Test Setup:



Test Condition

Normal Test Condition:

Temperature (Norm) = + 23.5 °C Voltage = 3.0V DC (Battery powered) Relative humidity: 68%

KDB Guidelines applied:

Measurements were made as per section 8.2 in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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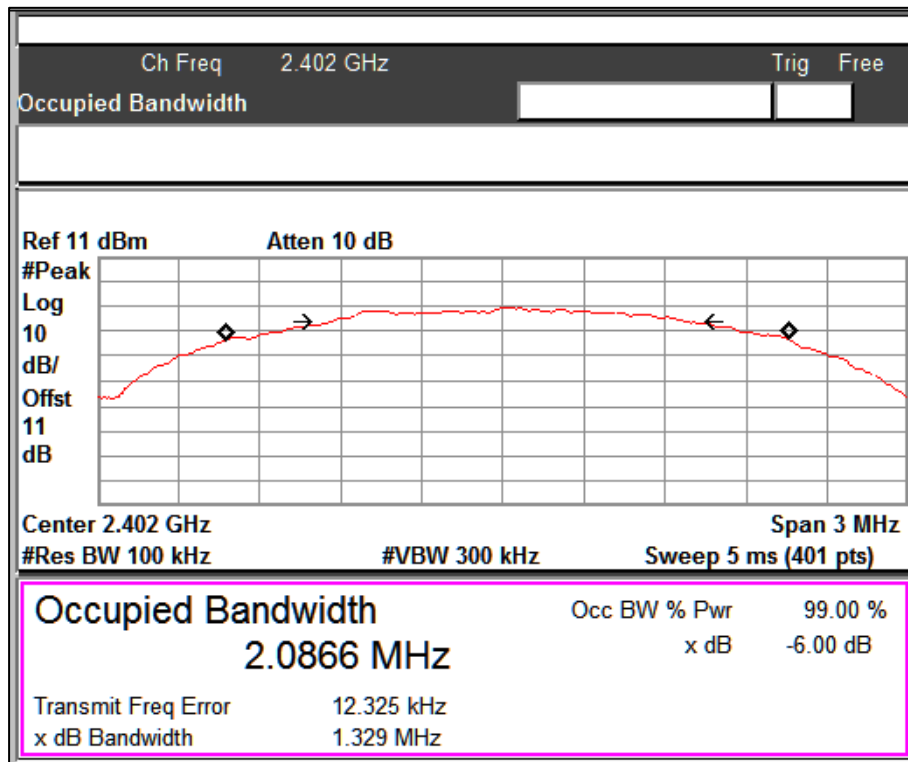
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Test results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.

Data Rate (Mbps)	Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% OBW (MHz)
2	2402	1.32	2.08
	2440	1.37	2.09
	2480	1.28	2.08

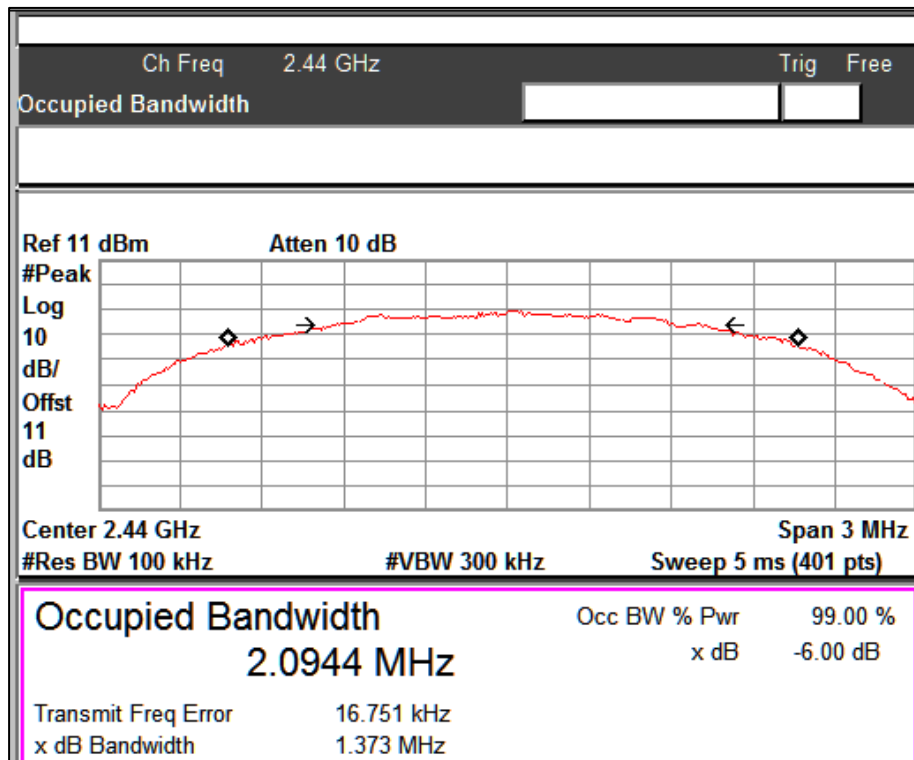


Channel Frequency: 2402MHz

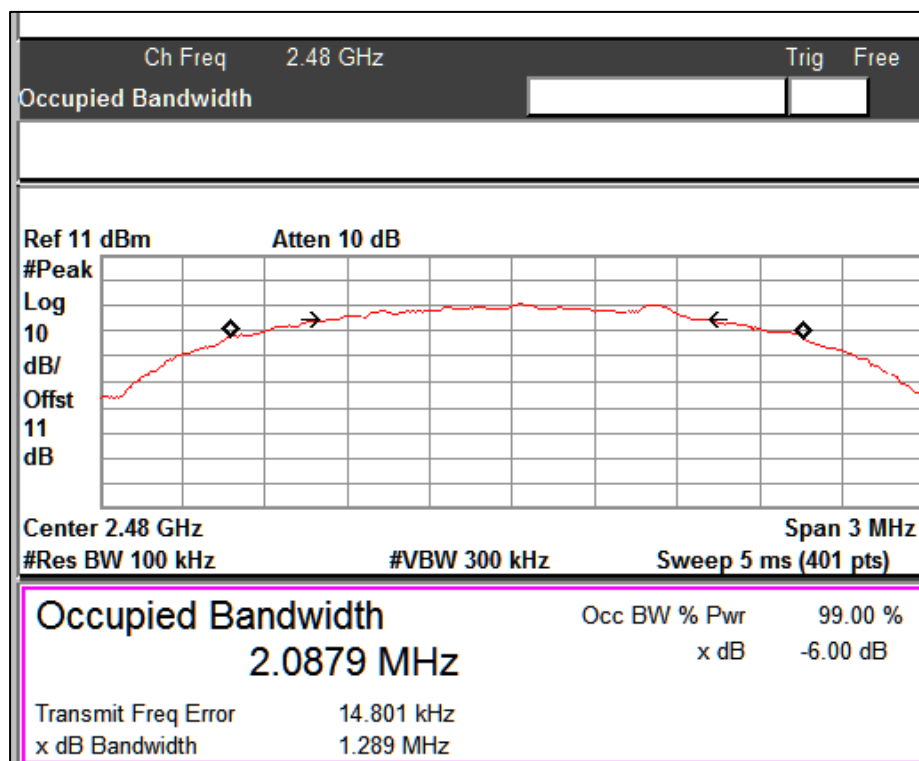
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Channel Frequency: 2440MHz



Channel Frequency: 2480MHz

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6.4 Emissions in non-restricted frequency bands and Conducted Spurious Emission

Result

Pass

Test Specification FCC part 15 Subpart C 15.247 (d)

Test Method Subclause 11.11 of ANSI C63.10

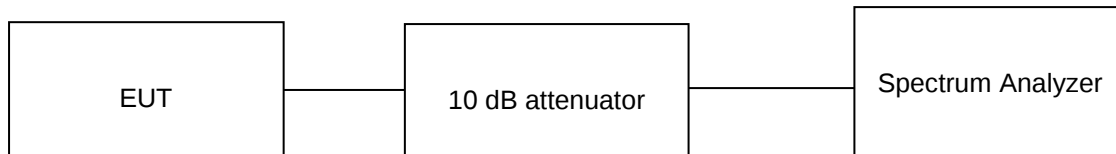
Measurement Bandwidth 100 kHz

Detector Peak

Port of testing Antenna port

Requirement In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits

Test Setup:



Test Condition

Normal Test Condition:

Temperature (Norm) = + 23.5 °C Voltage = 3.0V DC (Battery powered) Relative humidity: 68%

KDB Guidelines applied:

Measurements were made as per section 8.5 in KDB 558074 D01 15.247 Measurement Guidance v05r02.

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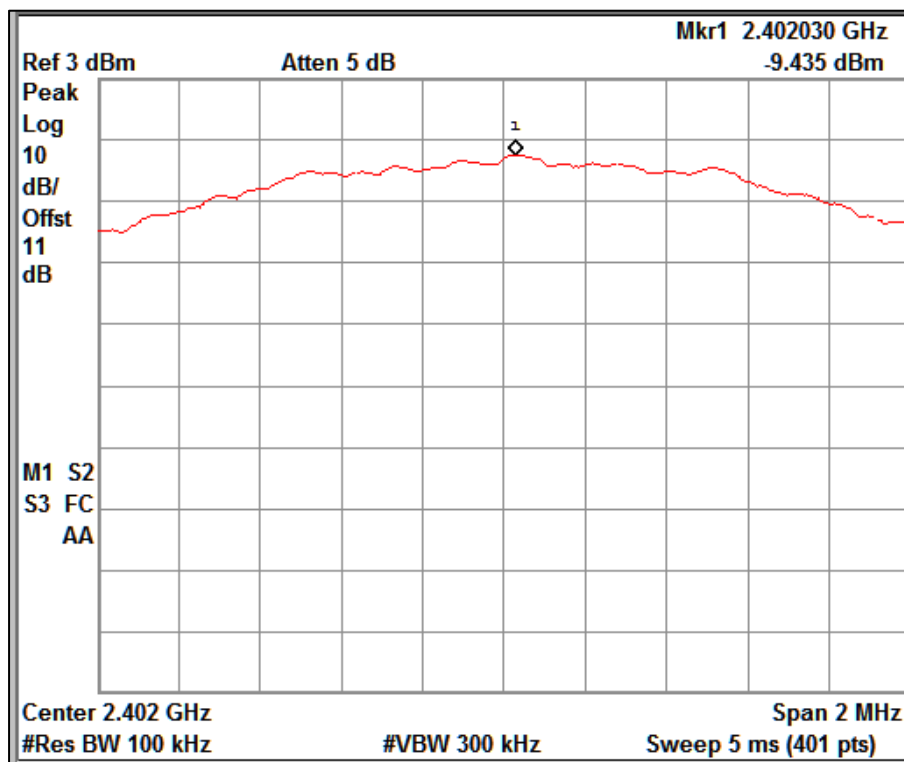
Test results:

Note:

1. All the losses are included during measurement and final values are mentioned in the test report.
2. Final Value (dBm) = Measured Value (dBm) + Attenuator factor (10dB) + Cable loss (1 dB)
3. This product do not support additional beamforming gain, it uses single chip antenna with the directional gain of 0.5 dBi .

6.4.1 Band edge and reference plots

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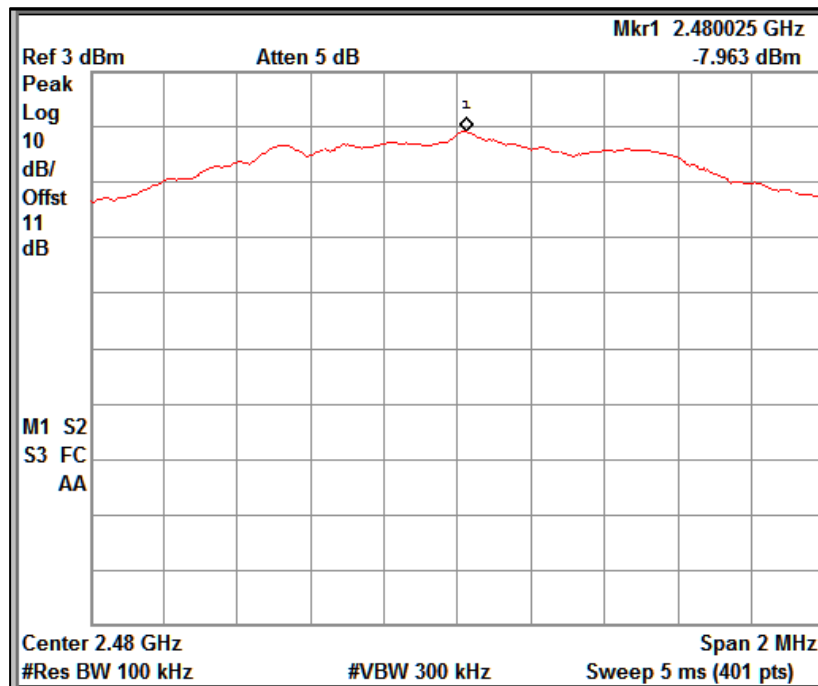


Reference Plot: Channel Frequency 2402MHz

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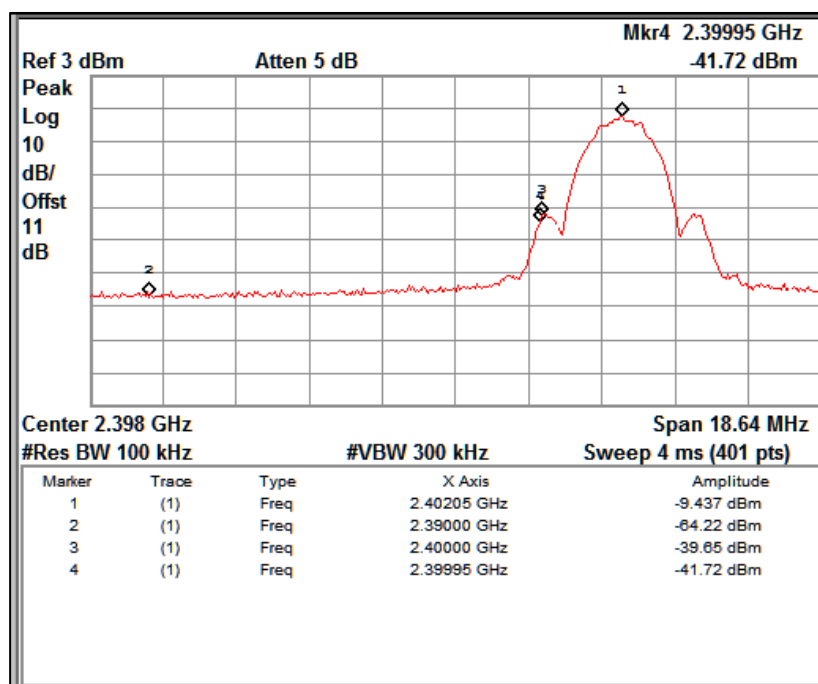
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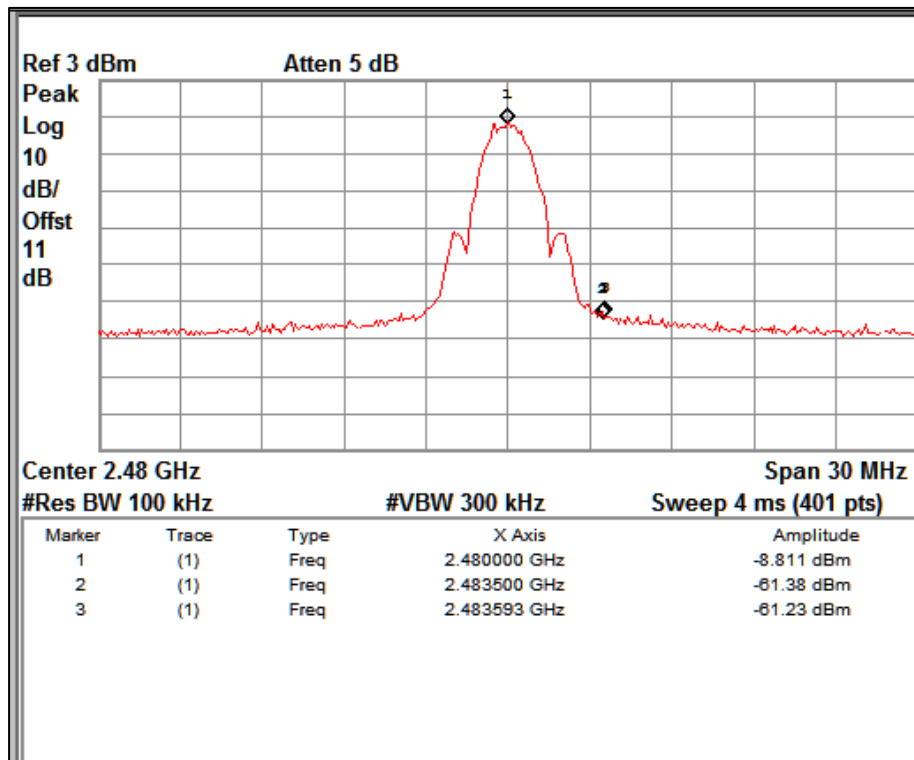


Reference Plot: Channel Frequency 2480MHz

Data Rate (Mbps)	Channel Frequency (MHz)	Value at the Band Edge		Reference Value B (dBm)	Band Edge Value A~B (dBc)	Limit (dBc)
		Frequency (MHz)	Value A (dBm)			
2	2402	2.399	-41.72	-9.43	-32.29	-20
	2480	2483.5	-61.38	-7.96	-53.42	-20

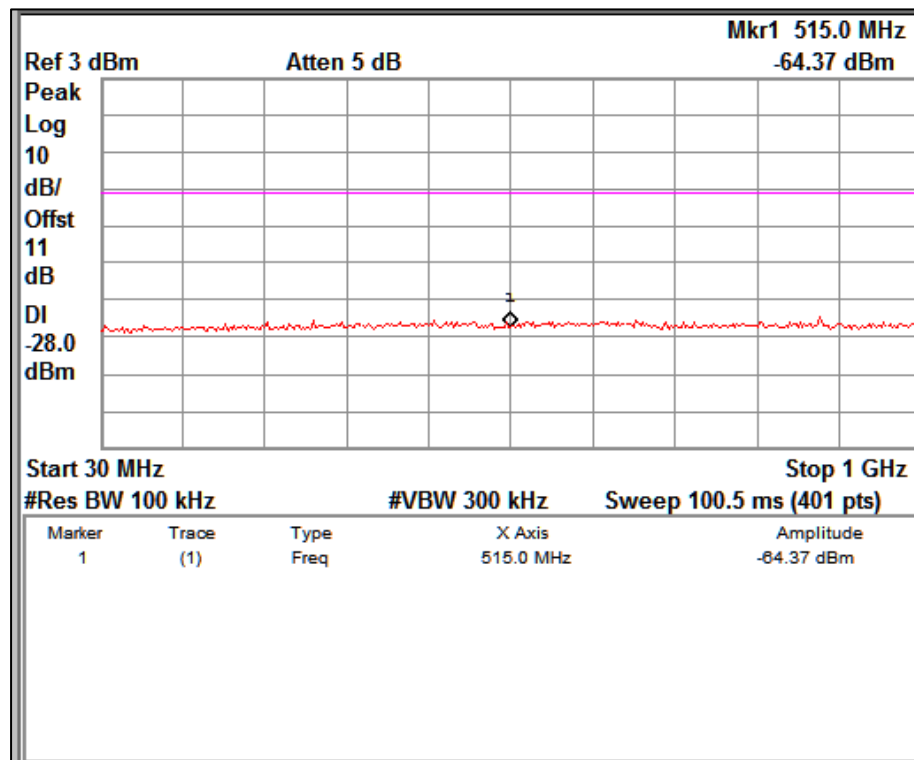


Channel Frequency: 2402MHz



Channel Frequency: 2480MHz

6.4.2 Out-Of-Band Emissions



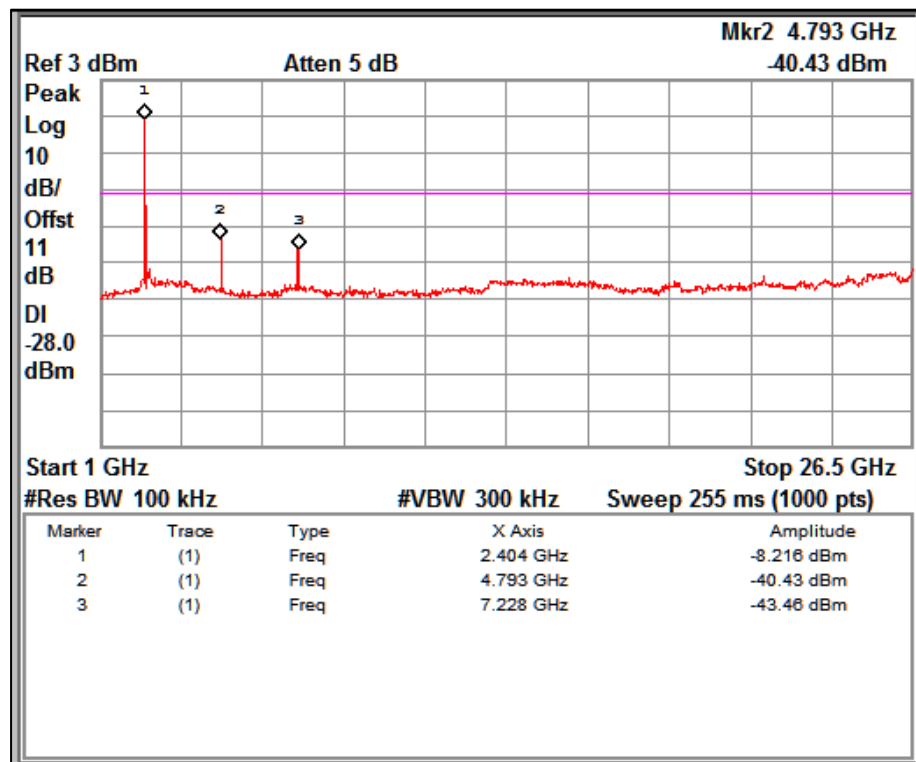
Frequency Range 30MHz – 1GHz

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Data Rate (Mbps)	Channel Frequency (MHz)	Value at the Band Edge		Reference Value B (dBm)	Band Edge Value A-B (dBc)	Limit (dBc)
		Frequency (GHz)	Value A (dBm)			
2	2402	4.79	-40.43	-9.43	-31.00	-20
		7.22	-43.46	-9.43	-34.03	-20
	2480	4.94	-42.41	-7.96	-34.45	-20
		7.45	-38.73	-7.96	-30.77	-20



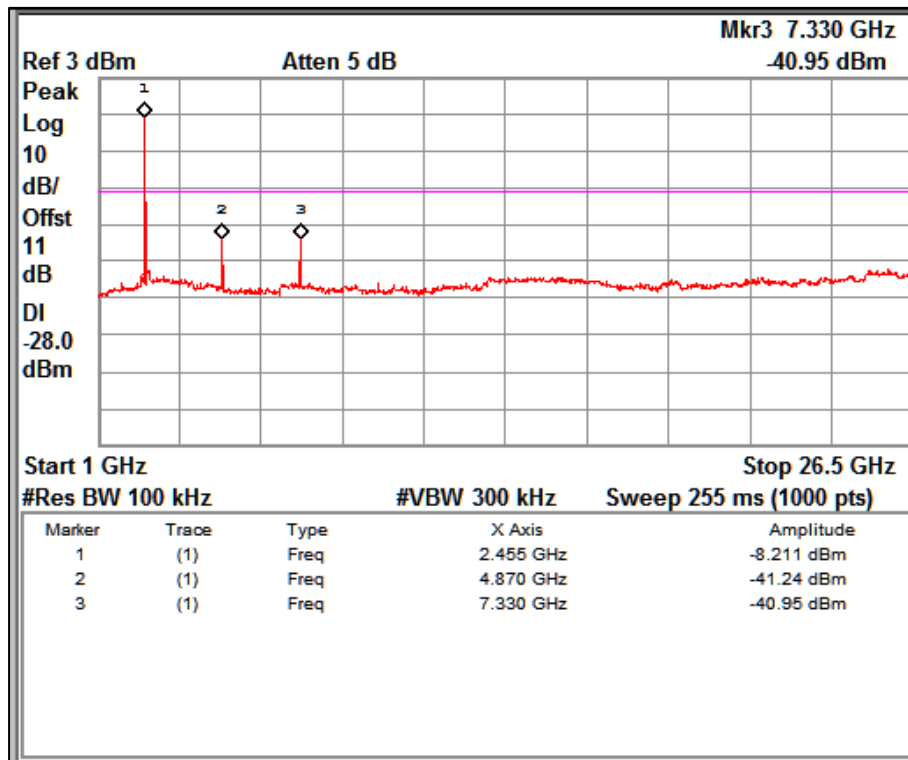
Channel Frequency: 2402MHz

Frequency Range 1GHz – 26.5GHz

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Test Report No.:

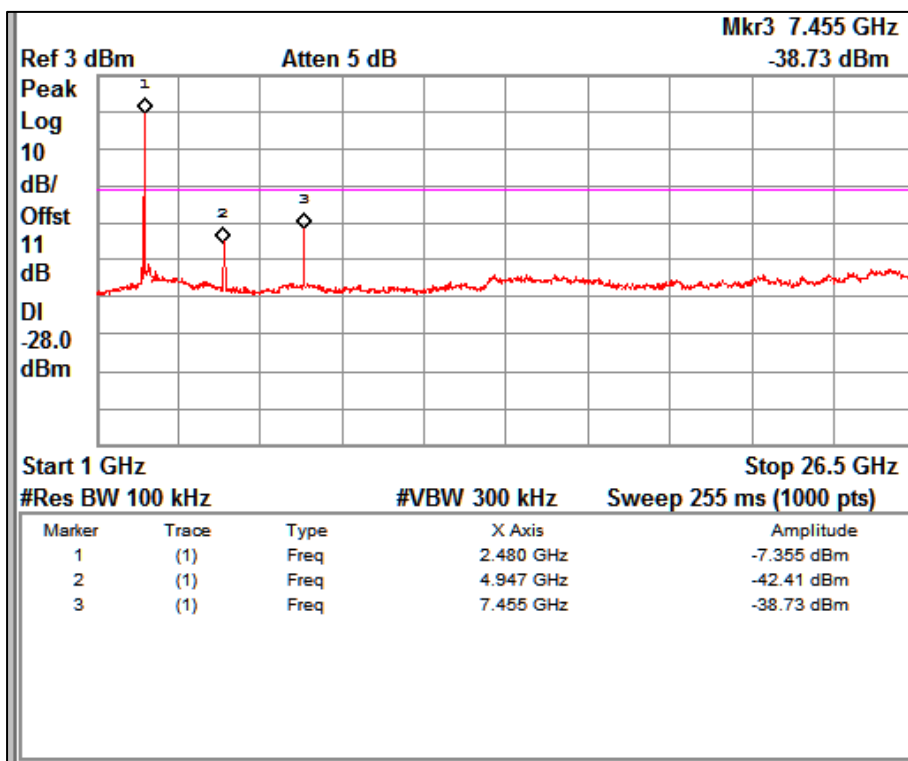
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Channel Frequency: 2440MHz

Frequency Range 1GHz – 26.5GHz



Channel Frequency: 2480MHz

Frequency Range: 1GHz – 26.5GHz

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6.5 Spurious Radiated Emissions & Restricted Bands of Operation

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (d) / (15.209 & 15.205)
Test Method	ANSI C63.10
Measurement Location	Semi Anechoic Chamber 30MHz - 1 GHz Fully Anechoic Chamber 1 GHz - 40GHz
Measurement Bandwidth	100 kHz for frequency range < 1GHz 1 MHz for Frequency range >1GHz
Detector	Refer remarks below
Measuring Distance	3 m
Requirement	As per the limits mentioned in the below table
Test setup	Refer TEST METHODOLOGY

Table 6: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 – 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 – 1.705	24000/F(kHz)	33.80 – 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009 – 0.490, 0.490 – 1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 128.51 – 93.80, 73.80 – 62.96 and 69.54 dBμV/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

Test Conditions:

Temperature (Norm) = + 22.3 °C Voltage = 3.0V DC (Battery powered) Relative humidity: 66%

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Test results:

Note: All the losses are included during measurement and final values are mentioned in the test report. Refer TEST METHODOLOGY for more details

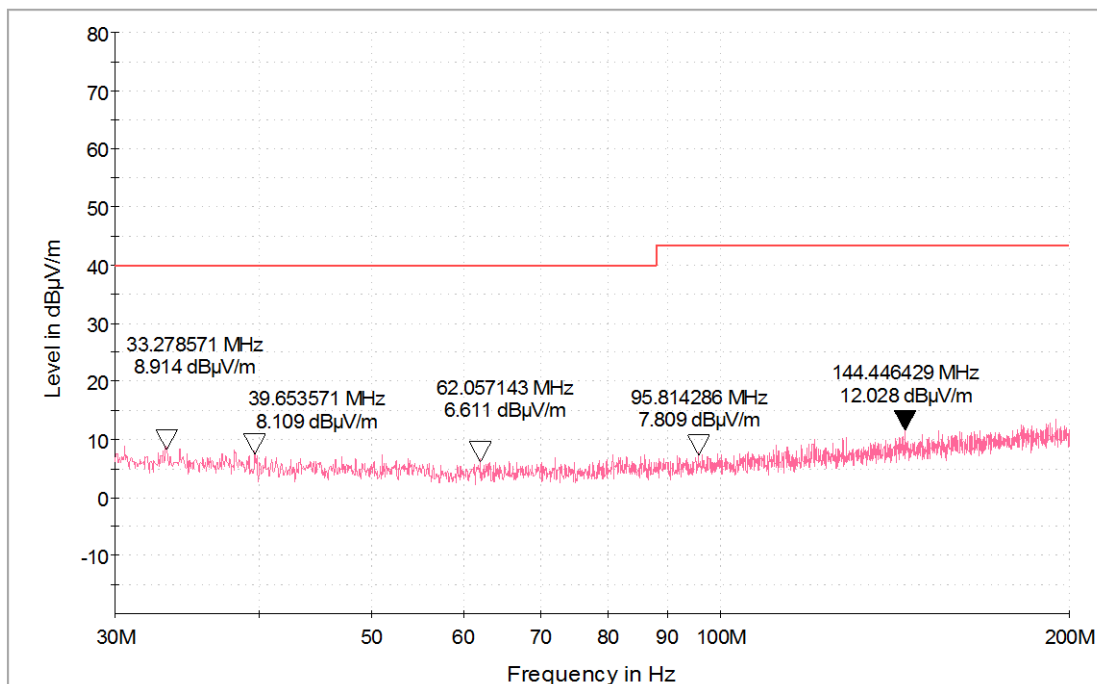
Test results for frequency range 9kHz – 30MHz

No emissions found in frequency range 9 kHz to 30 MHz, and measured levels are below 20dB from the limit line, hence not reported

Test results for frequency range 30MHz – 1GHz

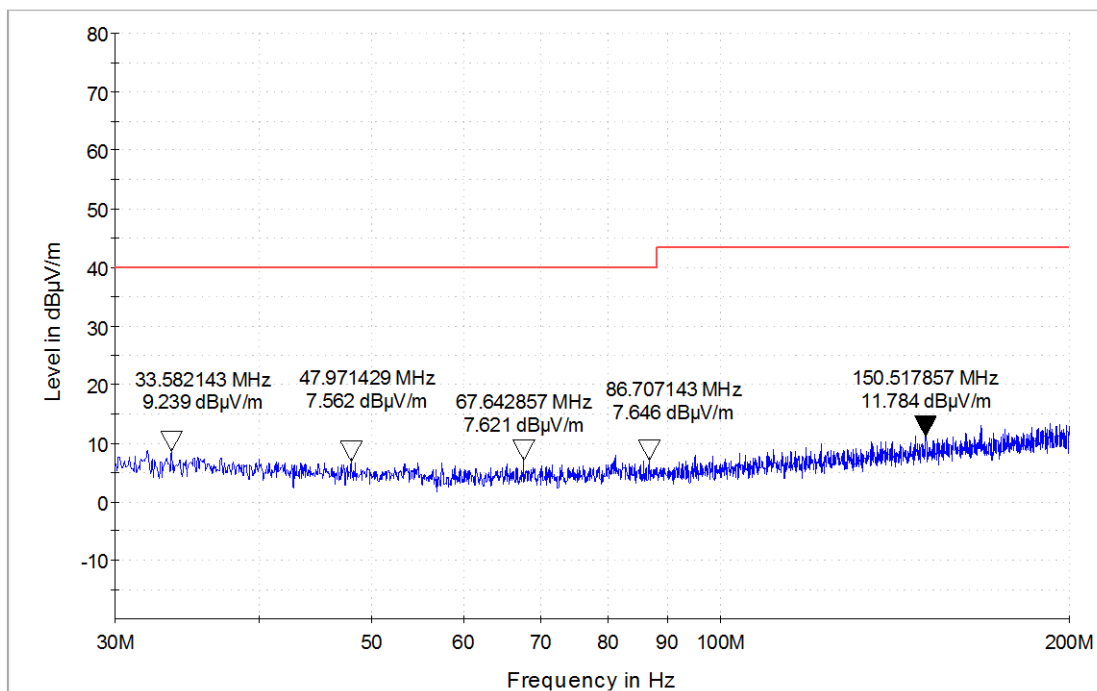
Polarization	Frequency (MHz)	Measured Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Vertical	62.05	6.11 (Pk)	40	-33.89
	95.81	7.80(Pk)	43.5	-35.70
	546.32	20.63(Pk)	46	-25.37
	770.71	24.84(Pk)	46	-21.16
Horizontal	67.64	7.62(Pk)	40	-32.38
	86.70	7.64(Pk)	40	-32.36
	567.96	22.28(Pk)	46	-23.72
	795.65	24.87(Pk)	46	-21.13

Pk: Peak Detector



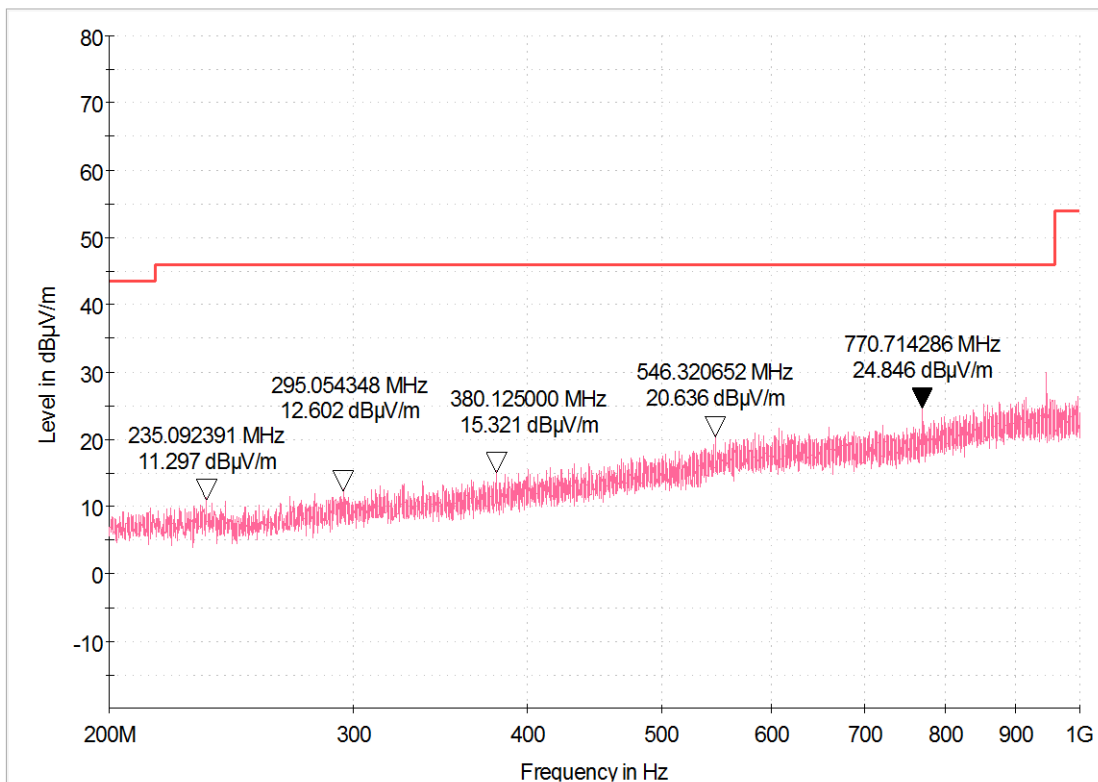
Channel Frequency 30MHz – 200MHz

Polarization Vertical



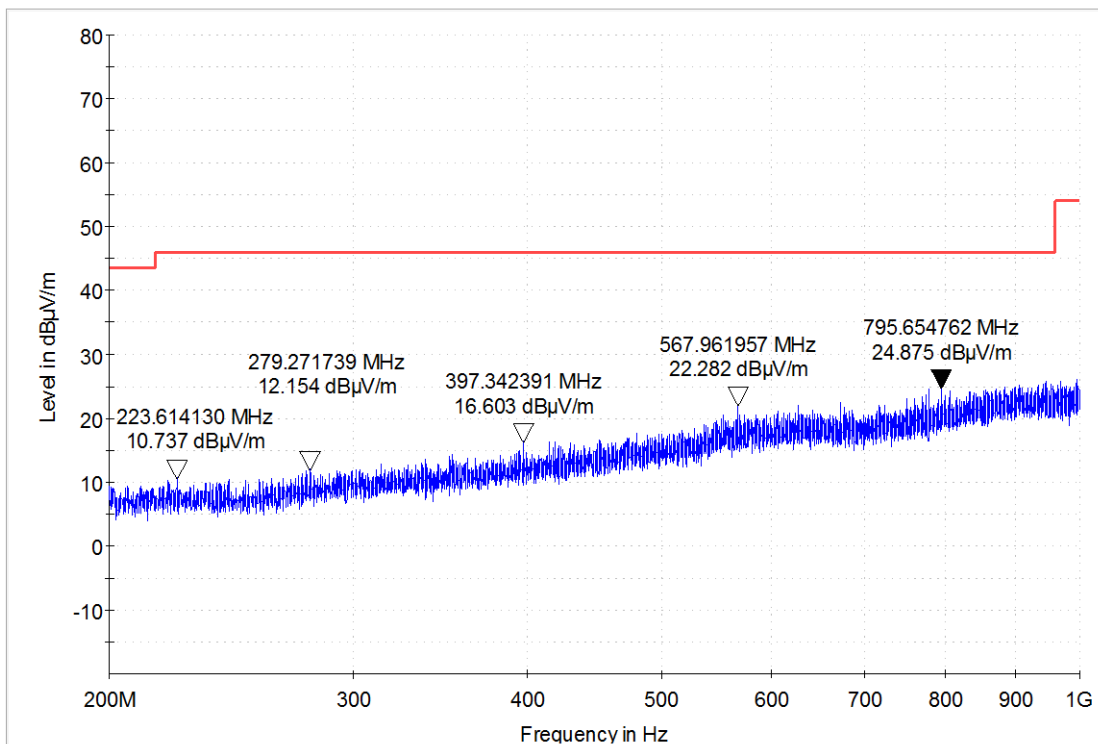
Channel Frequency 30MHz – 200MHz

Polarization Horizontal



Channel Frequency 200MHz – 1GHz

Polarization Vertical



Channel Frequency 200MHz – 1GHz

Polarization Horizontal

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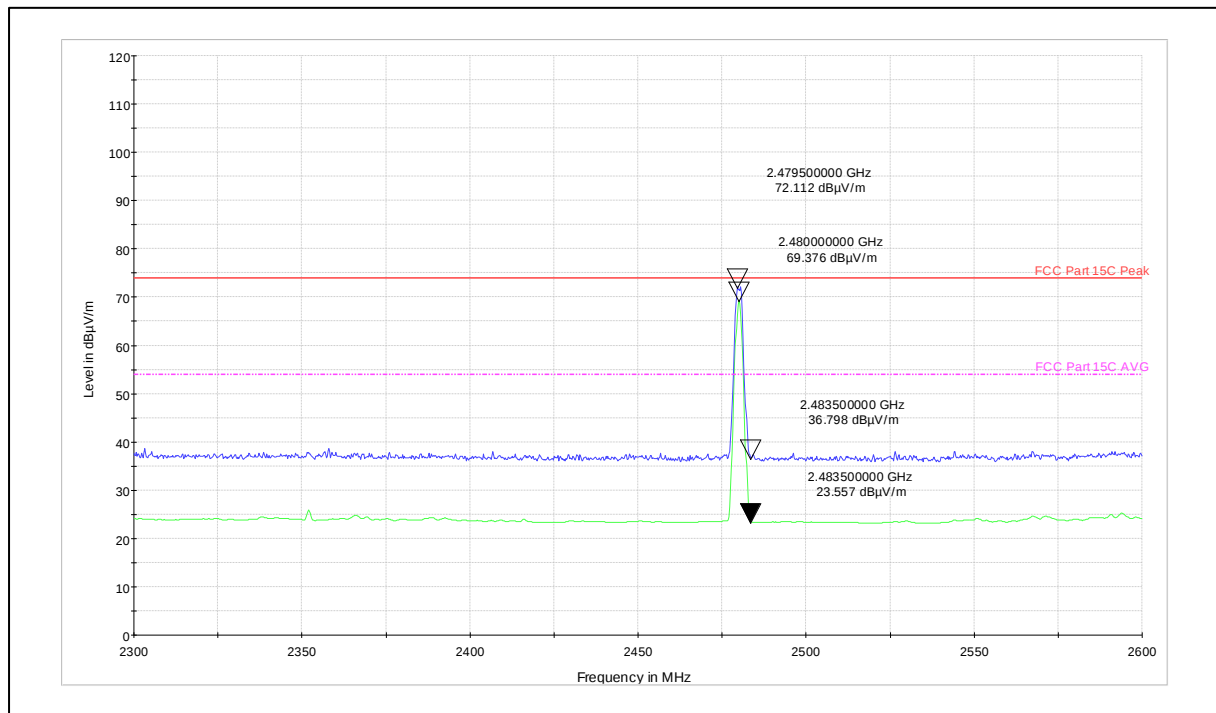
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Test results for the frequencies above 1GHz

Channel	Polarization	Frequency (MHz)	Emission level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2402	Vertical	2390(Pk)	36.58	74*	-37.42
		2390(Av)	23.10	54*	-30.90
		2402(Pk)	73.96	-	-
		2402(Av)	71.43	-	-
		4804(Pk)	56.22	74	-20.46
		4804(Av)	49.19	54	-5.96
		7206(Pk)	54.41	74	-19.59
		7206(Av)	44.71	54	-9.29
	Horizontal	2390(Pk)	36.26	74*	-37.74
		2390(Av)	23.65	54*	-30.35
		2402(Pk)	76.63	-	-
		2402(Av)	74.07	-	-
		4804(Pk)	53.54	74	-20.46
		4804(Av)	48.04	54	-5.96
		7206(Pk)	48.92	74	-25.08
		7206(Av)	36.81	54	-17.19
2440	Vertical	2440(Pk)	73.18	-	-
		2440(Av)	70.53	-	-
		4880(Pk)	57.27	74	-16.73
		4880(Av)	50.23	54	-3.77
		7320(Pk)	53.91	74	-20.09
		7320(Av)	44.47	54	-9.53
	Horizontal	2440(Pk)	77.98	-	-
		2440(Av)	75.38	-	-
		4880(Pk)	53.18	74	-20.82
		4880(Av)	45.24	54	-8.76
2480	Vertical	2480(Pk)	72.11	-	-
		2480(Av)	69.37	-	-
		2483.5(Pk)	36.79	74*	-37.21
		2483.5(Av)	23.55	54*	-30.45
		4960(Pk)	53.31	74	-20.69
		4960(Av)	45.68	54	-8.32
		7440(Pk)	55.24	74	-18.76
		7440(Av)	45.51	54	-8.49
	Horizontal	2480(Pk)	78.79	-	-
		2480(Av)	76.10	-	-
		2483.5(Pk)	37.32	74*	-36.68
		2483.5(Av)	25.08	54*	-28.92
		4960(Pk)	50.29	74	-23.71
		4960(Av)	42.59	54	-11.41
		7440(Pk)	49.75	74	-24.25
		7440(Av)	37.26	54	-16.74

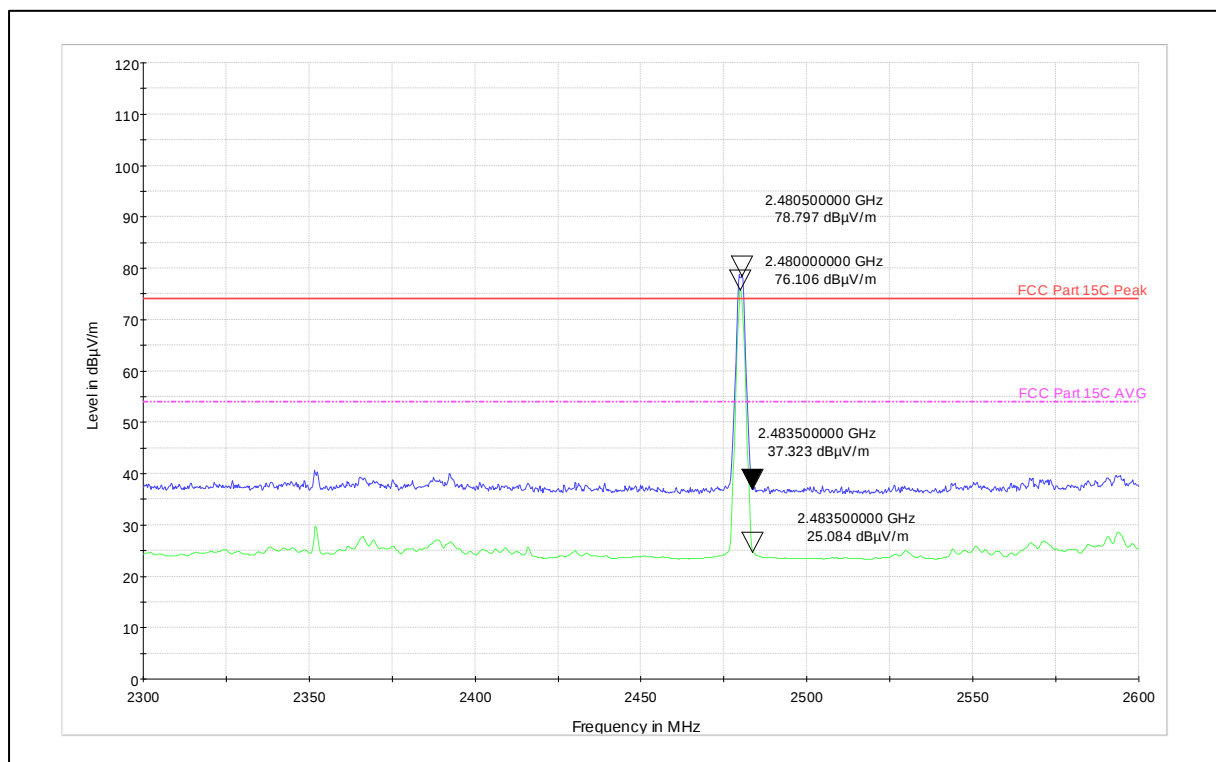
*- : Indicate restricted band of operation §15.205
Pk: Peak Detector; Av: Average Detector

Worst case Plots



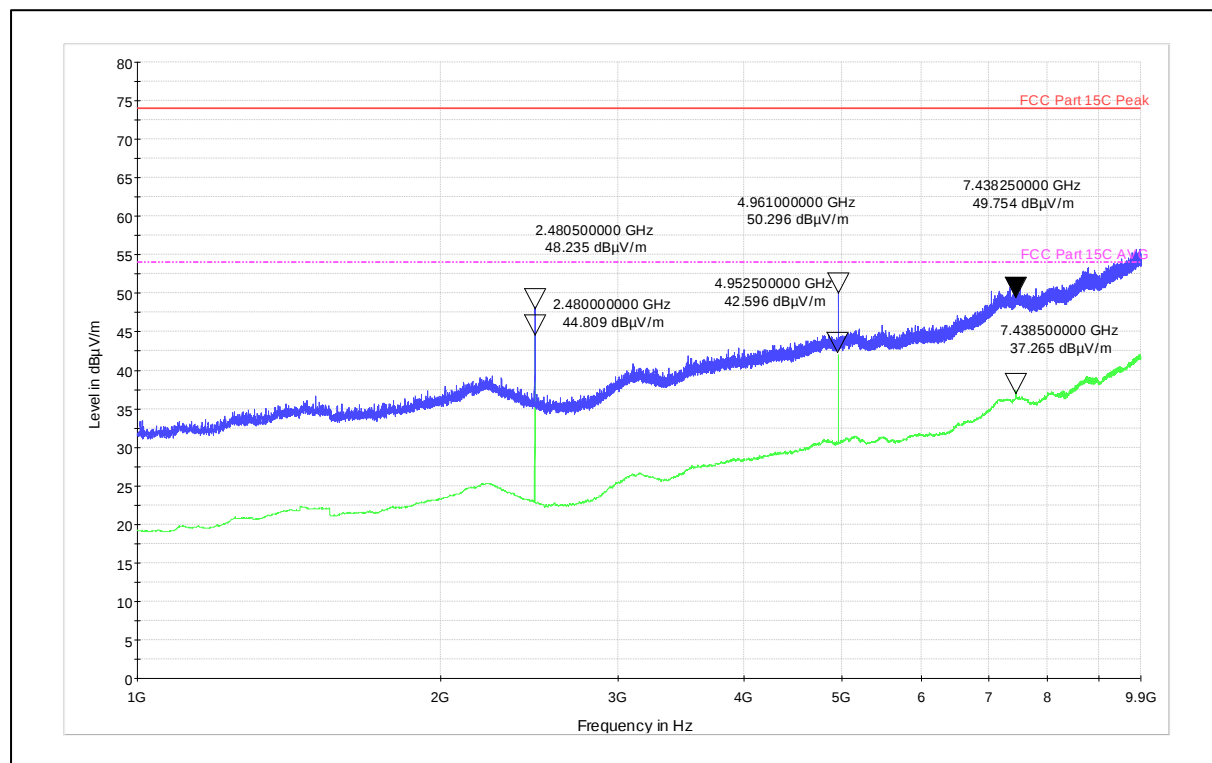
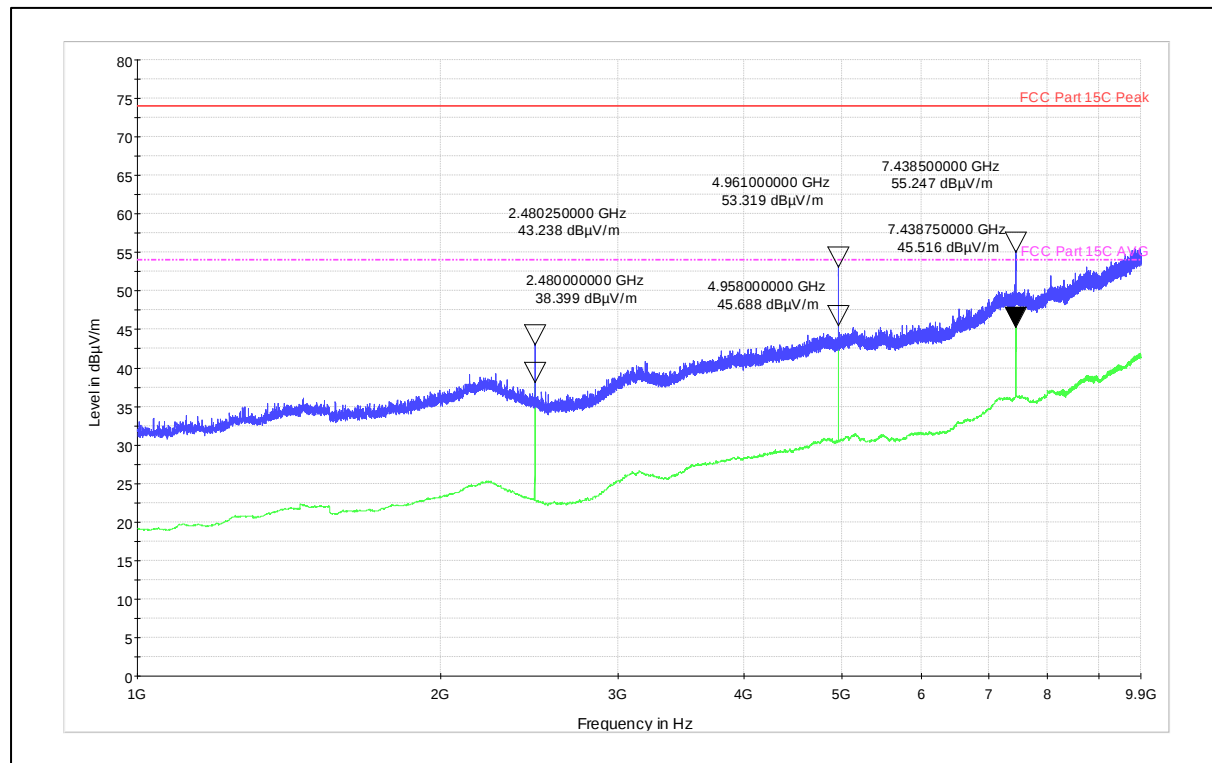
Channel Frequency: 2480MHz

Polarization: Vertical



Channel Frequency: 2480MHz

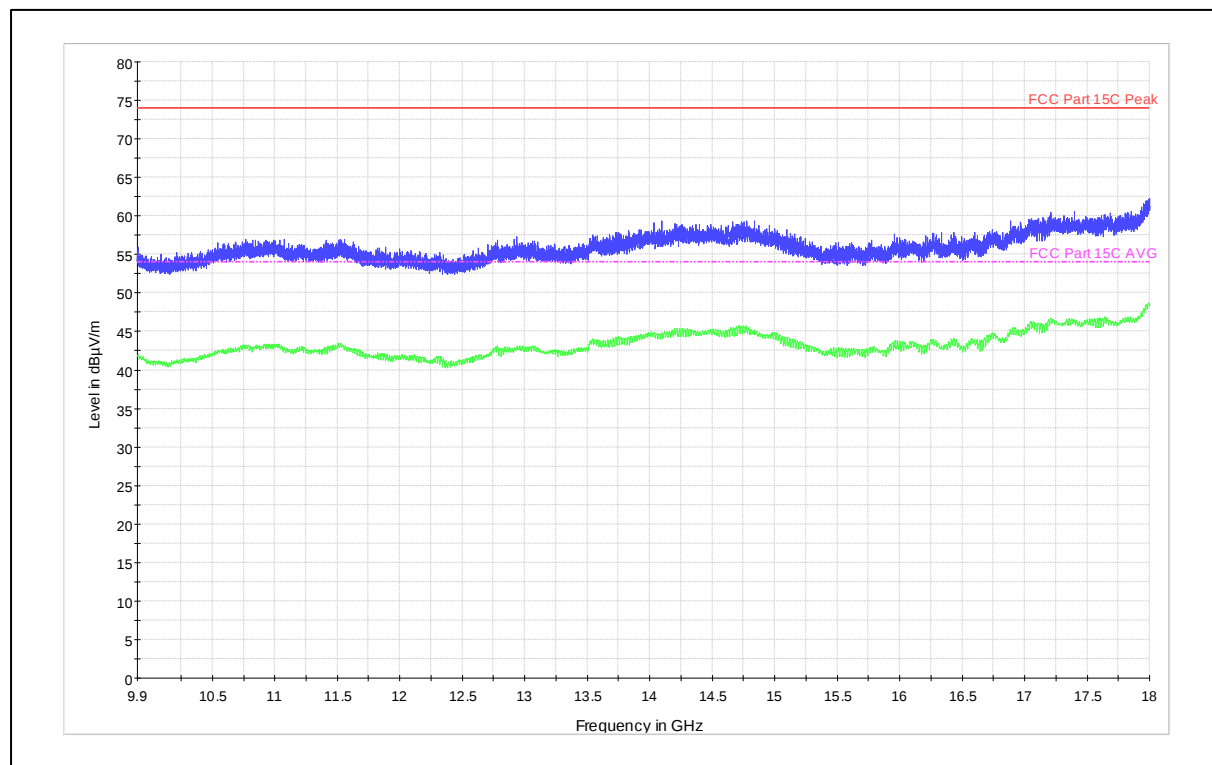
Polarization: Horizontal



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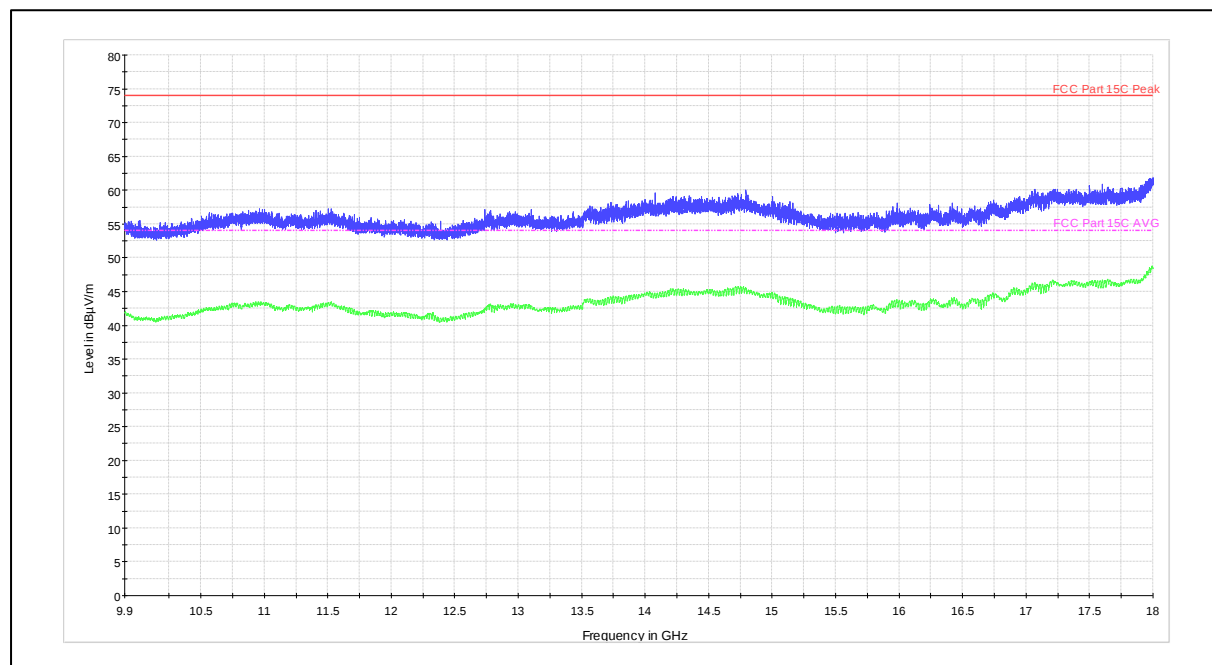
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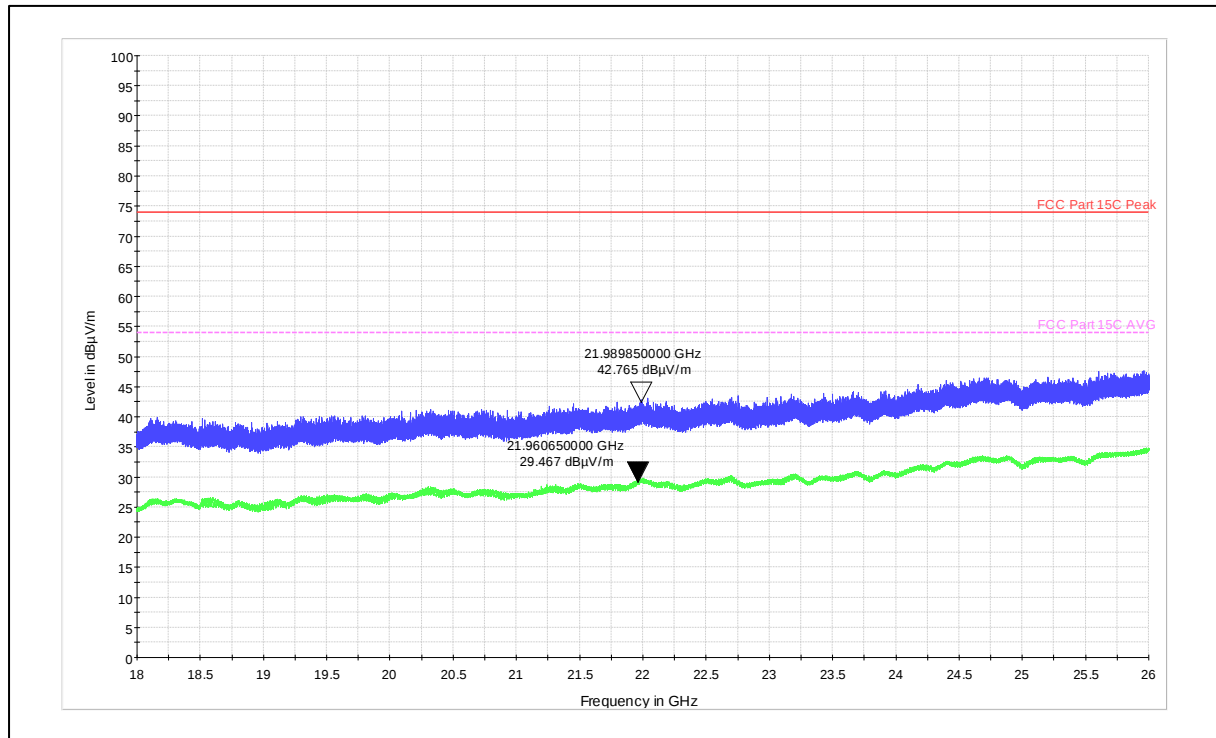
Frequency Range:1-9.9GHz

Polarization: Vertical



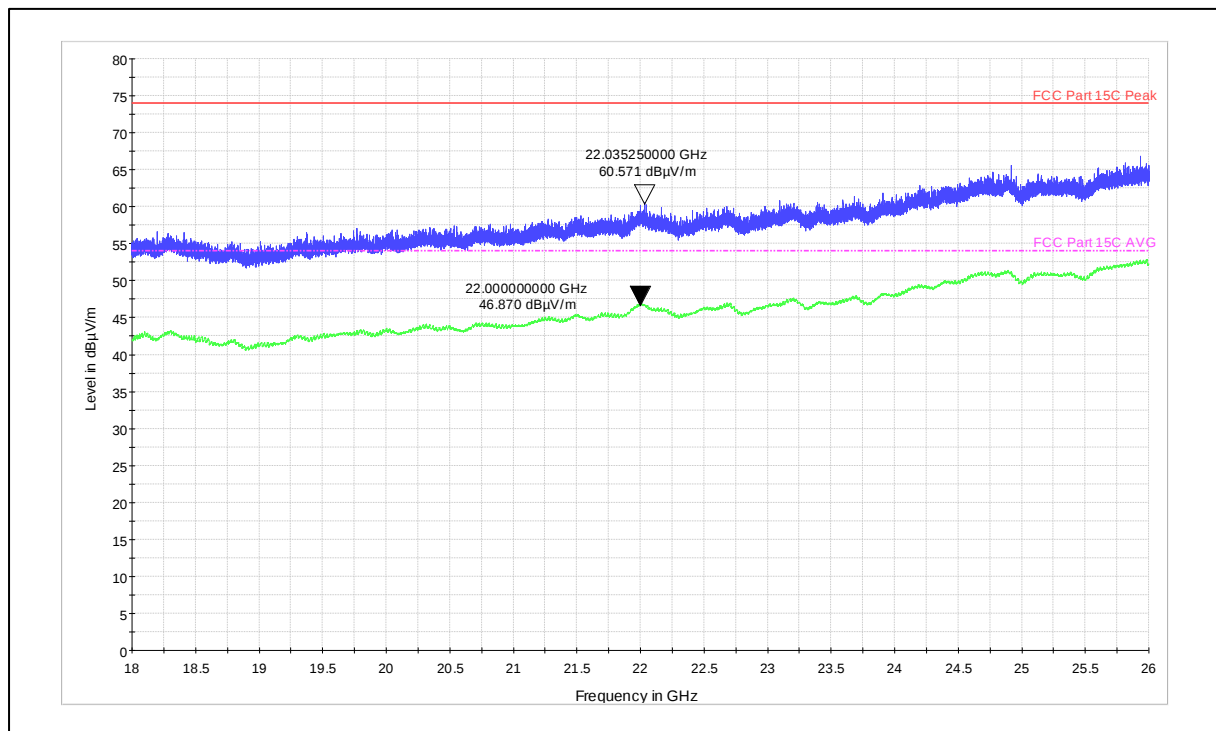
Frequency Range:1-9.9GHz

Polarization: Horizontal



Frequency Range: 18GHz-26GHz

Polarization: Vertical



Frequency Range: 18GHz-26GHz

Polarization: Horizontal

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7 Conducted Spurious Emission Test on AC Power Line

Result

Pass

Test Specification : FCC Part 15 Section 15.207
Test Method : ANSI C 63.10-2013
Testing Location : Screened room
Measurement Bandwidth : 9kHz
Frequency Range : 150kHz – 30MHz
Supply Voltage : 110VAC,60Hz
Test Method : Refer TEST METHODOLOGY

***Note: The product has tested with 110VAC,60Hz power supply**

Limits of section 15.207

Frequency of emission (MHz)	QP Limit (dBμV)	AV Limit (dBμV/m)
0.15 – 0.5	66 – 56*	56 – 46*
0.5 – 5	56	46
5 – 30	60	50

* Decreases with the logarithm of the frequency

Test Conditions:

Normal Temperature = +24°C

Voltage (V norm) = 110V AC, 60Hz supply

RH = 64 %

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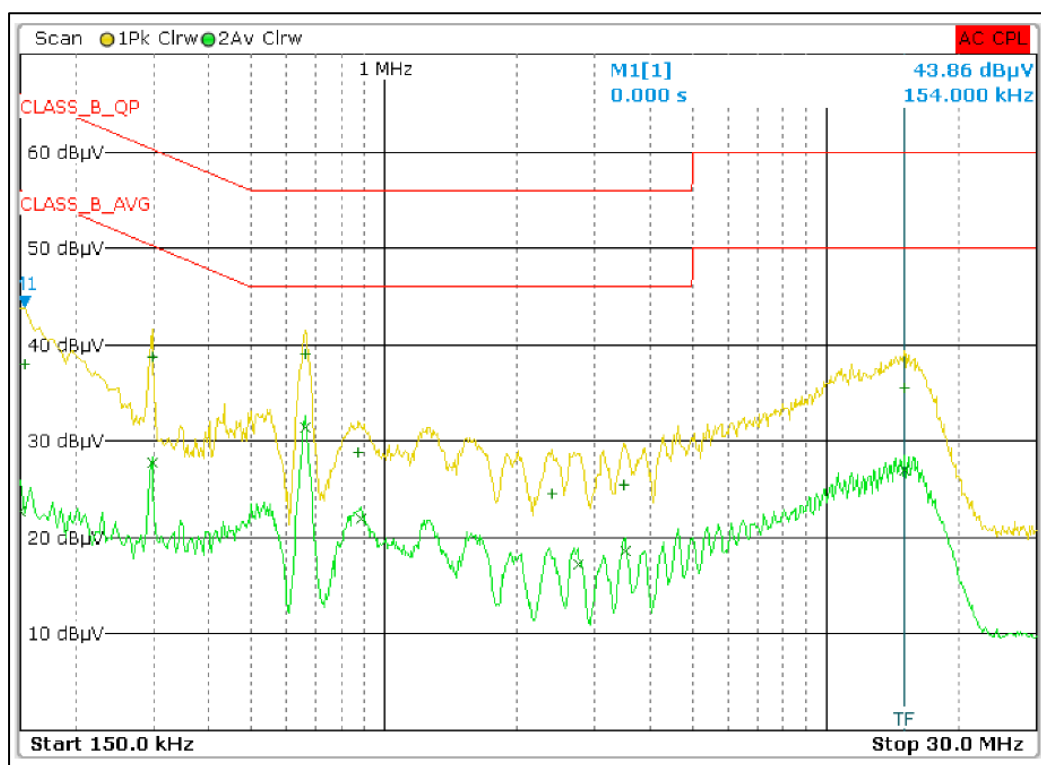
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Test result:

Power: 110VAC_ 60HZ_LINE

Trace	Frequency	Level (dBµV)	Phase	Detector	Delta Limit/dB
2	662.000000000 kHz	31.45		Average	-14.55
1	662.000000000 kHz	39.03		Quasi Peak	-16.97
1	298.000000000 kHz	38.76		Quasi Peak	-21.54
2	298.000000000 kHz	27.72		Average	-22.58
2	15.114000000 MHz	27.00		Average	-23.00
2	886.000000000 kHz	22.02		Average	-23.98
1	15.034000000 MHz	35.53		Quasi Peak	-24.47
1	874.000000000 kHz	28.85		Quasi Peak	-27.15
2	3.518000000 MHz	18.60		Average	-27.40
1	154.000000000 kHz	37.94		Quasi Peak	-27.84
2	2.742000000 MHz	17.21		Average	-28.79
1	3.482000000 MHz	25.46		Quasi Peak	-30.54
1	2.402000000 MHz	24.56		Quasi Peak	-31.44
2	150.000000000 kHz	22.72		Average	-33.28

Table: Line



Graph: Line

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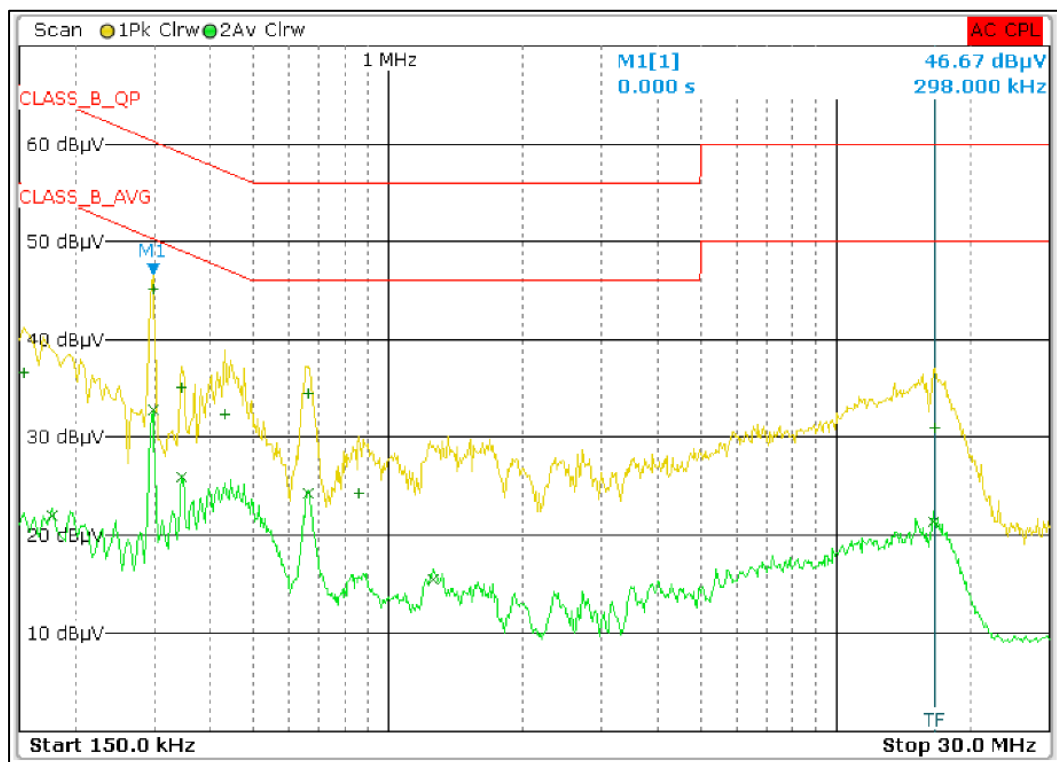
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Power: 110VAC_60HZ_NEUTRAL

Trace	Frequency	Level (dBµV)	Phase	Detector	Delta Limit/dB
1	298.00000000 kHz	45.11		Quasi Peak	-15.19
2	298.00000000 kHz	32.74		Average	-17.56
1	662.00000000 kHz	34.49		Quasi Peak	-21.51
2	662.00000000 kHz	24.26		Average	-21.74
2	346.00000000 kHz	26.00		Average	-23.06
1	346.00000000 kHz	35.14		Quasi Peak	-23.92
1	430.00000000 kHz	32.36		Quasi Peak	-24.89
2	16.466000000 MHz	21.30		Average	-28.70
1	16.610000000 MHz	31.02		Quasi Peak	-28.98
1	154.00000000 kHz	36.57		Quasi Peak	-29.21
2	1.258000000 MHz	15.55		Average	-30.45
1	862.00000000 kHz	24.28		Quasi Peak	-31.72
2	178.00000000 kHz	21.92		Average	-32.66

Table: Neutral



Graph: Neutral

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*****END OF TEST REPORT*****