

Produkte
Products

Prüfbericht - Nr.:		ULR-TC568819300000076F		Seite 1 von 46 Page 1 of 46	
<i>Test Report No.:</i>					
Auftraggeber: <i>Client:</i>		Integrated Device Technology, Inc 6024 Silver Creek Valley Road San Jose California US Zip Code: 95138			
Gegenstand der Prüfung: <i>Test item:</i>		BTG25			
Bezeichnung: <i>Identification:</i>		BTG25	Serien-Nr.: <i>Serial No.</i>	Engineering Sample	
Wareneingangs-Nr.: <i>Receipt No.:</i>		166200200	Eingangsdatum: <i>Date of receipt:</i>	18-11-2019	
Prüfört: <i>Testing location:</i>		Refer Page 5 of 46 for Test site details			
Prüfgrundlage: <i>Test specification:</i>		FCC Part 15 Subpart C 15.247 & ANSI C63.10- 2013			
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). The test items passed the test specification(s).			
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland (India) Pvt. Ltd. 27 / B, 2nd Cross, Electronic city Phase I, Bengaluru - 560100, India FCC Test Site Registration no.: 496599			
geprüft / tested by:		kontrolliert / reviewed by:			
21-11-2019	Srinivasa B R Engineer		20-12-2019	Mahammadgouse Kaladagi Assistant Manager	
Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name/Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>
Sonstiges / Other Aspects:		FCC ID:2AU6XBTG25			
Abkürzungen:		Abbreviations:			
P(ass) = entspricht Prüfgrundlage		P(ass) = passed			
F(ail) = entspricht nicht Prüfgrundlage		F(ail) = failed			
N/A = nicht anwendbar		N/A = not applicable			
N/T = nicht getestet		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 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 safety mark on this or similar products.</i>					

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Test Summary

FCC clause	Test item	Result
15.247(a)(2)	6dB Bandwidth and Occupied channel bandwidth	PASS
15.247(b)	Peak conducted power measurement	PASS
15.247(e)	Power spectral density	PASS
15.247(d)	Emission in non Restricted frequency bands	PASS
15.247 (d) / 15.209 & 15.205	Radiated spurious emission & restricted bands of operation	PASS
15.207	Conducted Emission on A.C mains lines	PASS

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1 GENERAL REMARKS

1.1 Complimentary Materials

All attachments are integral part of this test report with the following item:

1. Test setup photos
2. EUT external photos
3. EUT internal photos
4. FCC label and location details
5. Block diagram
6. Specification of EUT
7. Schematics
8. Bill of Materials
9. User Manual
10. Maximum permissible exposure calculation

2 TEST SITES

2.1 Testing Facilities

TÜV Rheinland (India) Pvt.Ltd.,
 27/B, 2nd Cross,
 ElectronicCityPhase1
 Bangalore – 560 100,
 India

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 name	Manufacturer	Model Name	Serial Number	Firmware Versions	Calibration Due Date	Periodicity	Used for Test Items
Spectrum Analyser	Agilent Technologies	E4407B	US41192772	A.14.06	28-03-2020	Yearly	Antenna port measurements
EMI Test Receiver	Rohde & Schwarz	ESW 44	101733	1.50 SP1	19-03-2020	Yearly	Radiated measurements
EMI Test Receiver	Rohde & Schwarz	ESU 40	100288	4.43 SP3	11-10-2020	Yearly	
Active loop antenna	Frankonia	LAX-10	LAX-10-800	-	15-01-2020	Yearly	
Biconical Antenna	Schwarzbeck mess-elektronik	VHBB-9124 / BBA-9106	9124-656	-	16-01-2020	Yearly	
Log-Periodic Antenna	Schwarzbeck	FMZB 1519 B	1519B-00111	-	16-01-2020	Yearly	
Broadband Horn Antenna	Frankonia	BBHA 9120 D	9120D-1944	-	16-01-2020	Yearly	
Semi Anechoic Chamber	Frankonia	-	-	-	-	-	
Fully Anechoic Chamber	Albatross	-	-	-	-	-	AC Power line conducted emission
EMI Receiver	Rohde & Schwarz	ESR7	101133	V7.0-4-62-2	16-01-2020	Yearly	
LISN	Rohde & Schwarz	ENV 216	100022	-	05-09-2020	Yearly	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100811	-	01-08-2020	Yearly	

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Table 2: Instrument application Software versions

SL. No.	Test Type	Application software	Version
1	Radiated spurious emission measurement	EMC 32	10.50.00

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

This product consists of an BLE 5.0 transceiver and sensors connected to this BLE Transceiver. This device has on board Temperature and Humidity sensor, Gyro Sensor, Accelerometer, and PRS Sensor. Main function of the BLE transmitter is to transmit the sensor data to other BLE devices. Other BLE devices are devices running on Android or Apple iOS platform. An application installed on these devices reads the sensor data from this device through BLE Link. This device has an internal EEPROM also. This EEPROM can store up to 10 last readings. This device is powered from 5V input.

End Usage: The main purpose of this device is to demonstrate the on-board sensor's capabilities

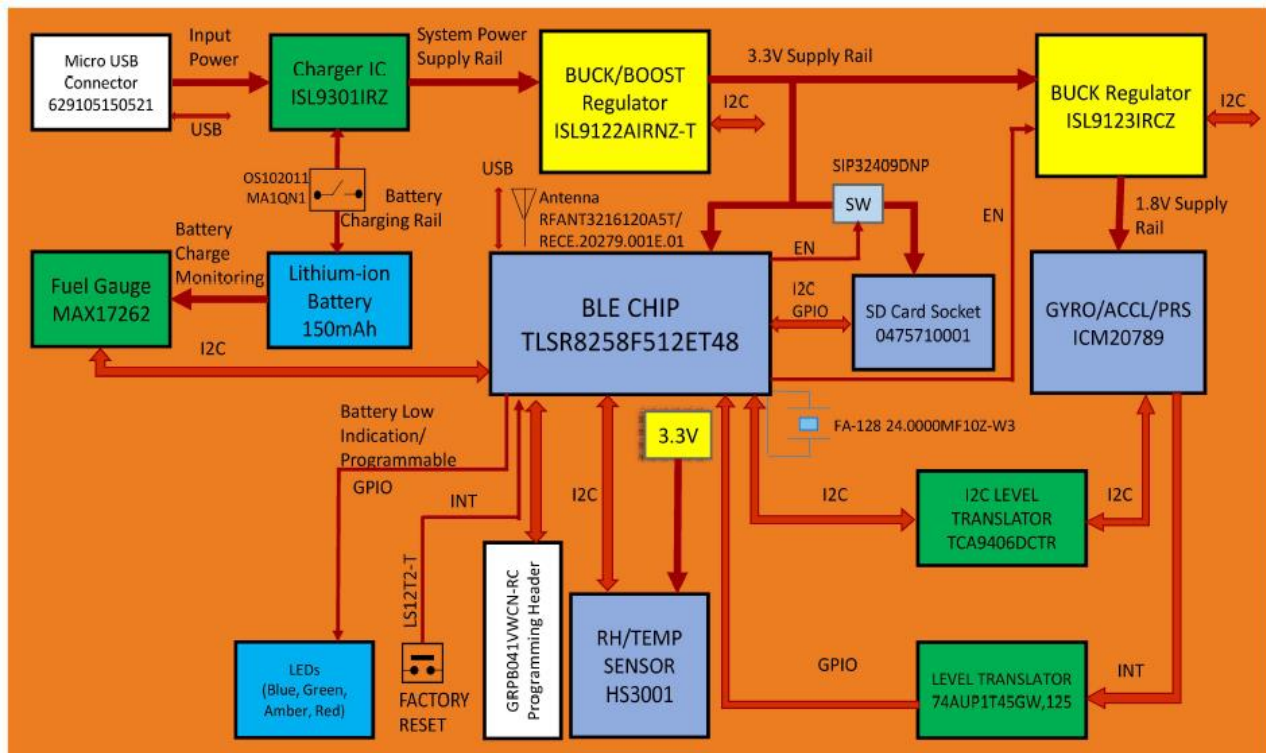
3.2 Ratings and System Details declared by client*

Table 3: Ratings and System Details

Operating Frequency Range	2400 MHz – 2483.5 MHz
Radio Protocol	BLE
Transmitted power (declared)	8.1 dBm
Data rate	1 Mbps
Channel Spacing	2 MHz
Modulation	Gaussian frequency shift keying (GFSK)
Number of antennas supports	Single
Antenna Gain & Type	2dBi and Chip Antenna
Supply Voltage to Product	5V D.C through Micro USB
Dimensions(L X W) mm	41.9 X 41.9
Environmental conditions	Storage and operational conditions: (- 40°C ~ 80°C)

***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.

4 BLOCK DIAGRAM



5 Measurement Uncertainty

Table 4: Measurement Uncertainty

Parameter	Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3 dB
Unwanted Emissions, conducted	±3 dB
SAC, radiated measurement	±6 dB
FAC, radiated measurement	±6 dB
Temperature	±3 °C
Supply Voltages	±3 %
Time	±5 %

Note: The listed uncertainties are the worst case uncertainty for the entire range of measurements and are for the reporting purpose only and are not used in determining the PASS/FAIL of the results.

6 TEST SET-UP AND OPERATION MODE

6.1 Principle of Configuration Selection

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

6.2 Test Operation and Test Software

Test software name and version: EMI_Test_Tool & kite_emi_V1.7

Test Hardware name : BLE SENSOR NODE 0.2

6.3 Special Accessories and Auxiliary Equipment

- TELINK programmer and test laptop used to configure the EUT for different channels during testing

6.4 Test modes – data rates and modulations

For Radiated spurious emissions only the worst case results i.e the emissions with lesser margin are reported in this report.

6.5 Countermeasures to achieve EMC Compliance

- None

Table 5: List of Center Frequencies

Frequency Band	Channel No.	Frequency (MHz)
BLE (2400-2483.5 MHz)	0	2402
	1	2404
	2	2406
	3	2408
	:	:
	:	:
	18	2438
	19	2440
	20	2437
	:	:
	:	:
	36	2474
	37	2476
	38	2478
	39	2480

TUV Sample identification details

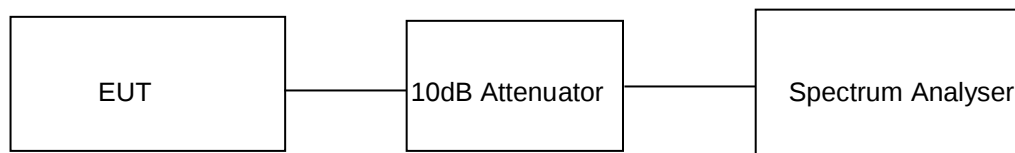
TUV Sample Identification number : A001029163-002 (Conducted measurement)
A001029163-001 (Radiated measurement)

7 ANTENNA PORT TEST CASES

7.1 DTS Bandwidth and OBW

Result
Pass

Test Specification	FCC part 15 Subpart C Section 15.247 (a)
Test Method	Section 8.2 of KDB 558074 D01 DTS Meas Guidance v05r02 & ANSI C 63.10–2013
Detector	Peak
Requirement	DTS Bandwidth shall be at least 500 kHz / 0.5 MHz

Test Setup:

Environmental and Test conditions:

Normal Temperature = +24.3 °C

Voltage (V norm) = 5 VDC through Micro USB

RH = 62.2 %

Test Result:

Attenuator (10 dB) + cable loss (0.5 dB) = 10.5 dB Considered in the test result.

Table 6: DTS Bandwidth and OBW test results

Data Rate (Mbps)	Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% OBW (MHz)
1	2402	723.65	1.06
	2440	645.71	1.06
	2480	733.73	1.06

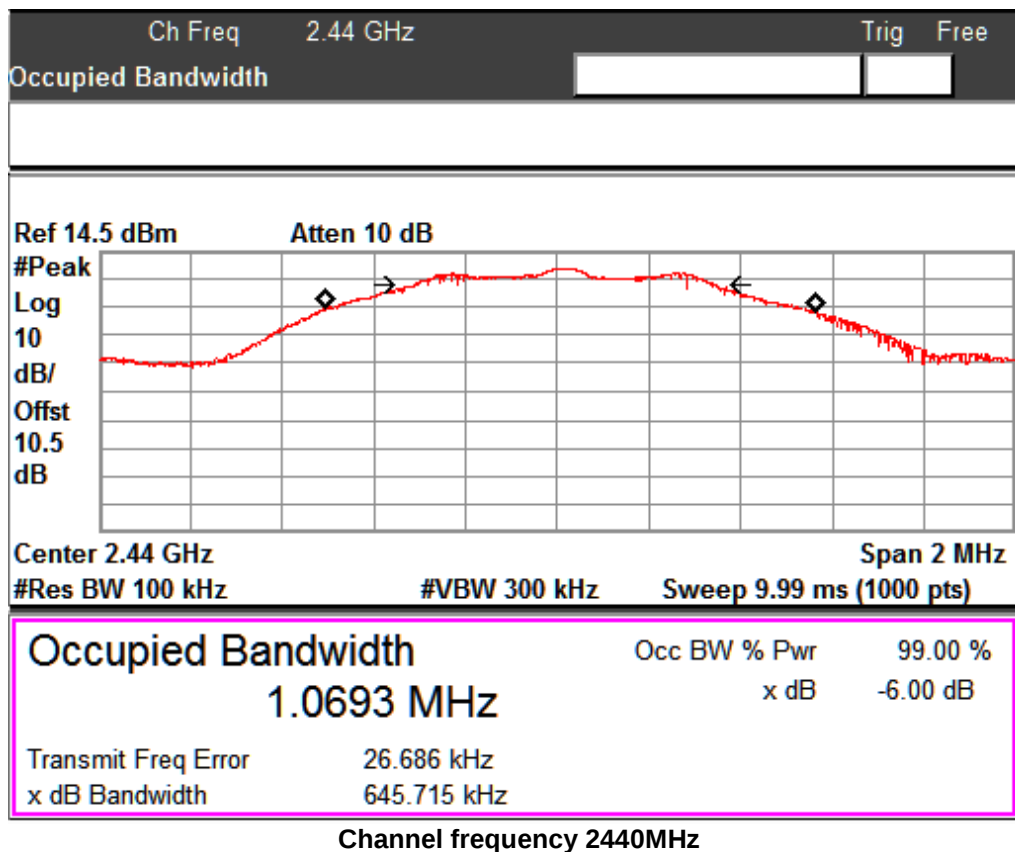
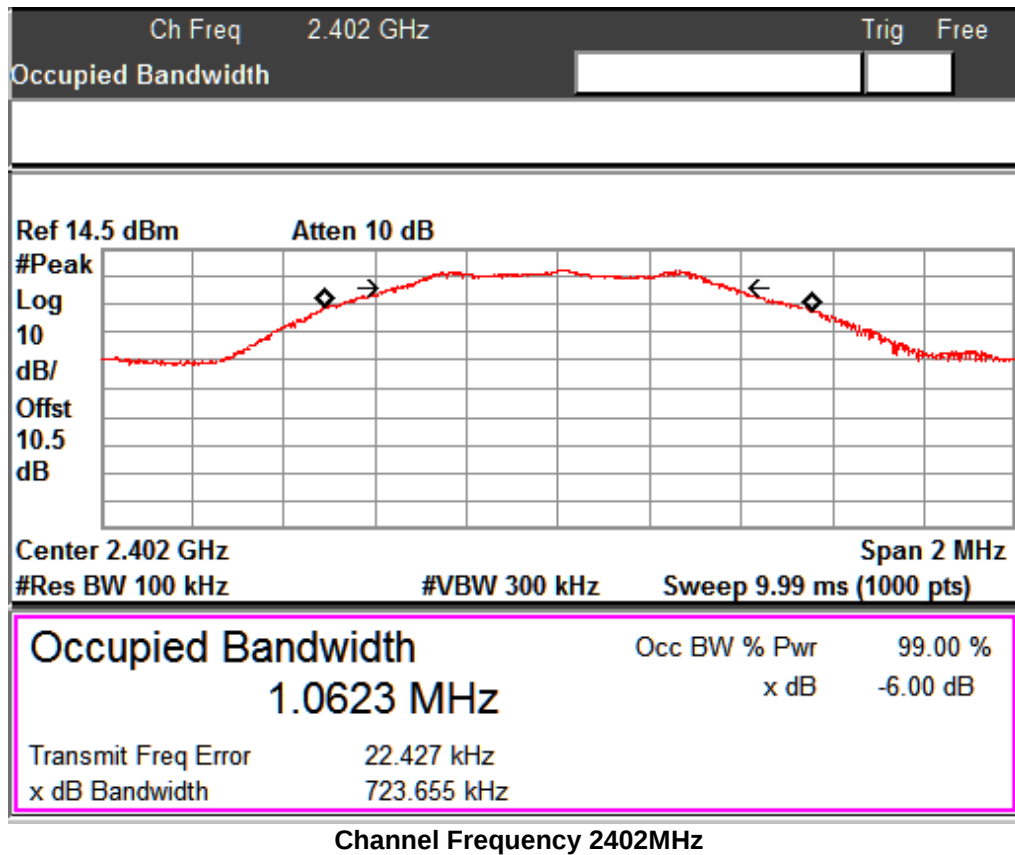
Prüfbericht - Nr.:

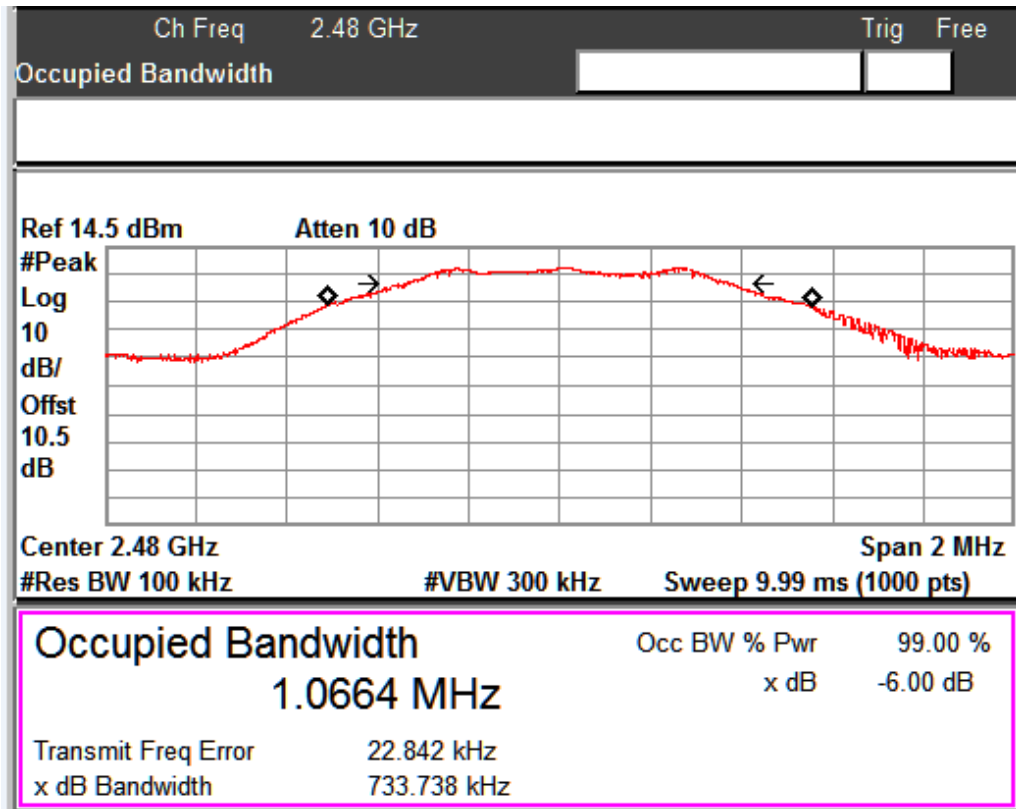
Test Report No.:

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Test plots 1: Occupied channel bandwidth and DTS bandwidth


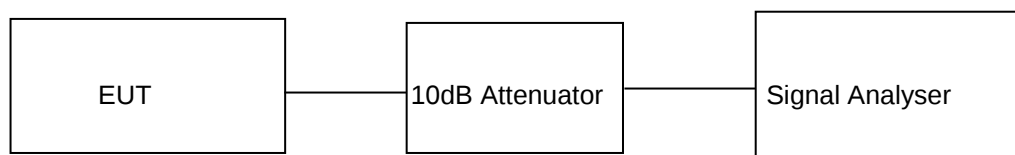


Channel frequency 2480MHz

7.2 Maximum peak conducted output power

Result
Pass

Test Specification	FCC part 15 Subpart C Section 15.247 (b)
Test Method	Section 8.3.1 of KDB 558074 D01 DTS Meas Guidance v05r02 & ANSI C 63.10–2013
Detector	Peak
Requirement	Conducted output power shall be ≤ 1 Watt (30 dBm)

Test Setup:

Test Result:

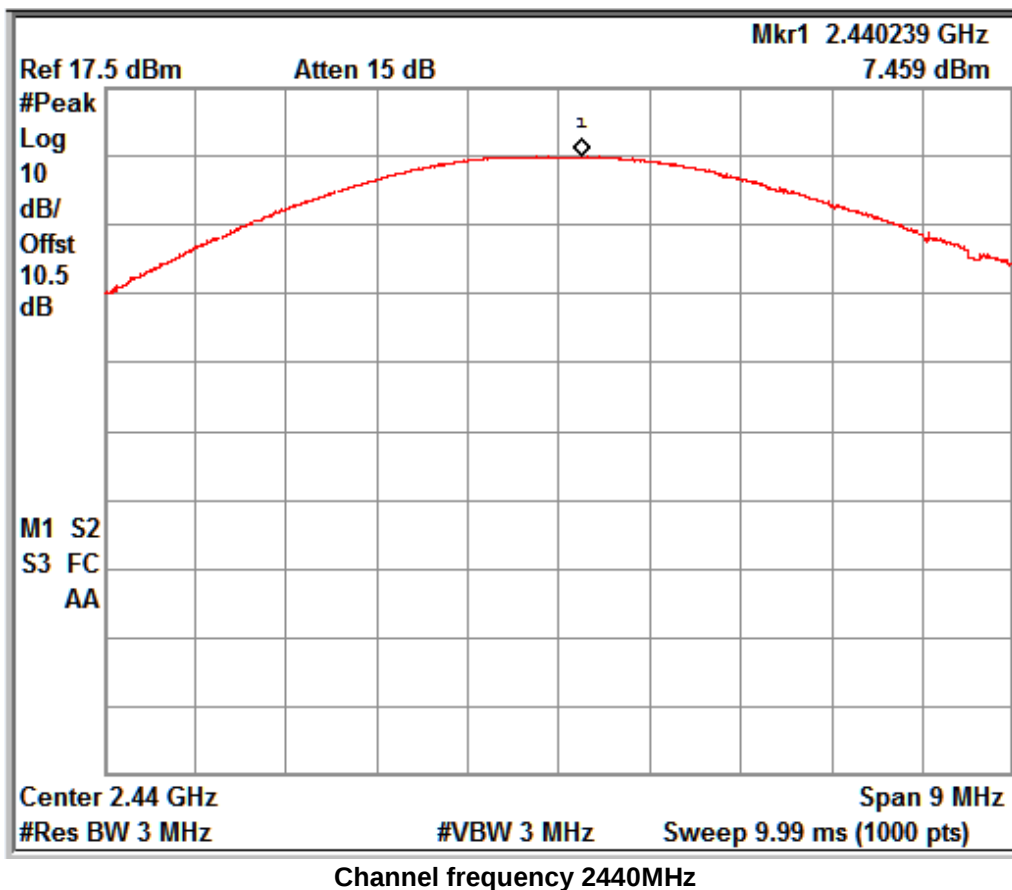
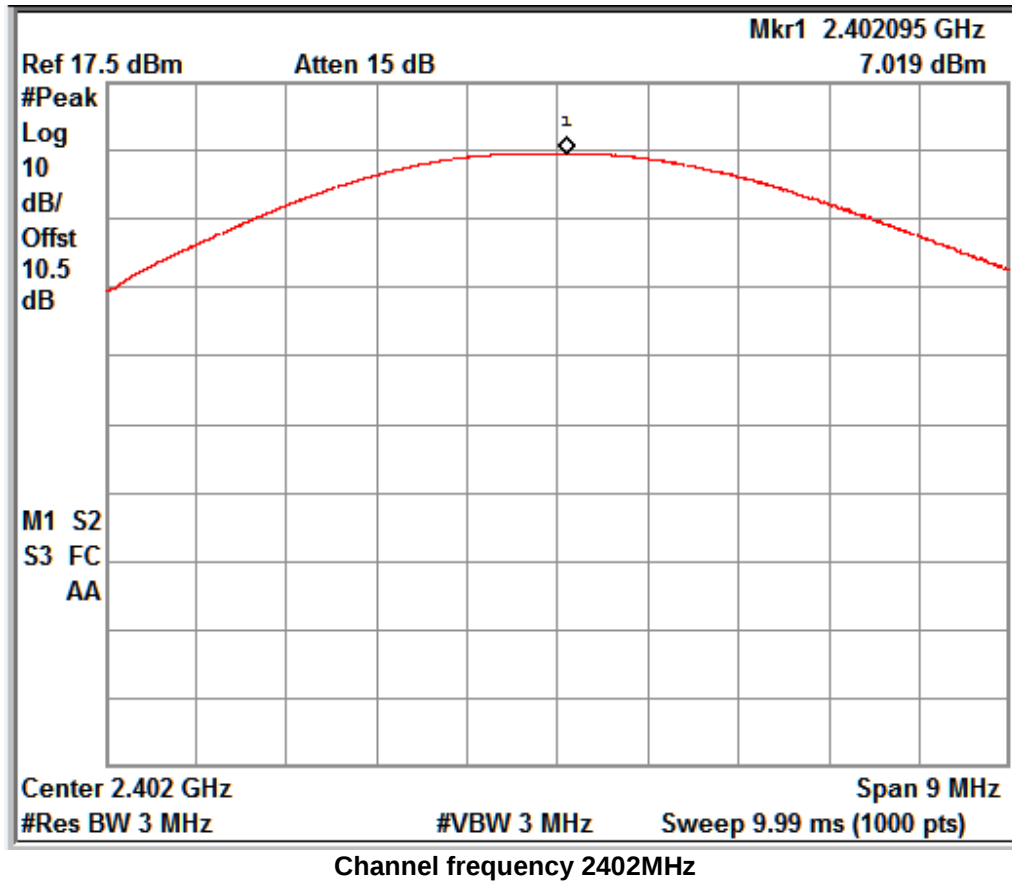
Attenuator (10 dB) + cable loss (0.5 dB) = 10.5 dB Considered in the test result.

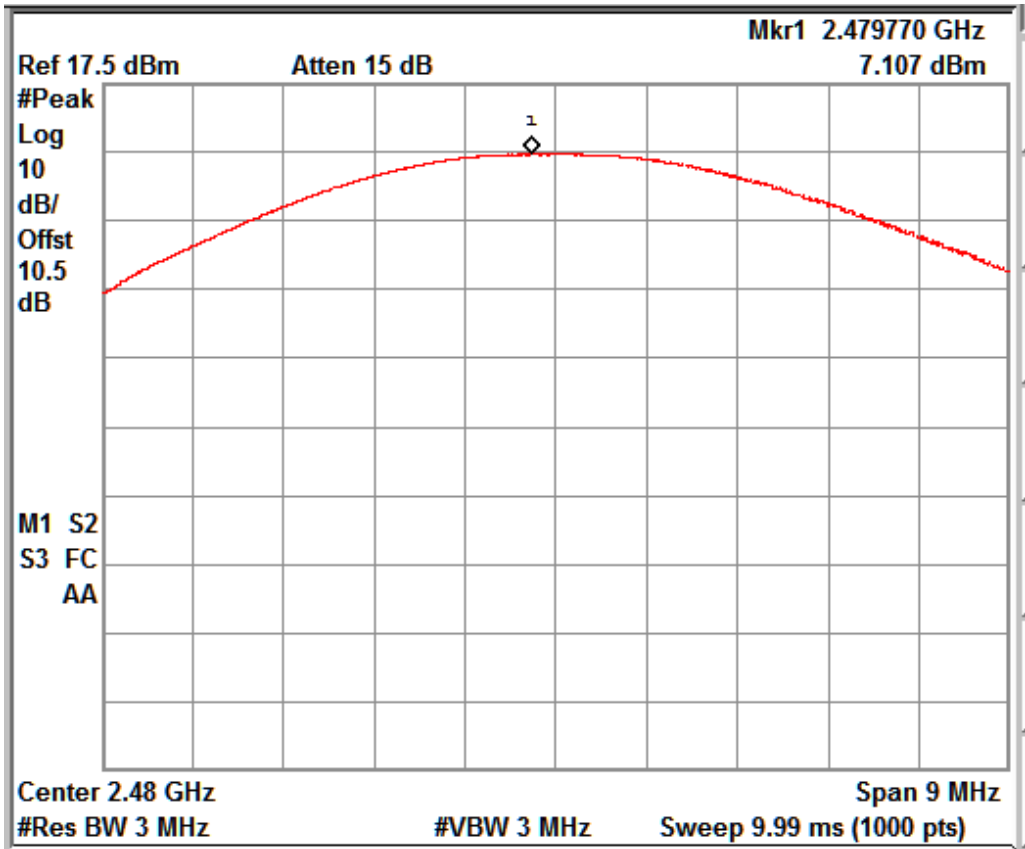
Environmental and Test conditions:

Normal Temperature = +24.3 °C Voltage (V norm) = 5 VDC through Micro USB RH = 62.2 %

Table 7: Maximum peak conducted output power

Channel Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Margin (dB)
2402	7.01	30	-22.99
2440	7.45	30	-22.55
2480	7.10	30	-22.90

Test plots 2: Maximum peak conducted power




Channel frequency 2480MHz

7.3 Maximum power spectral density

Result
Pass

Test Specification

FCC part 15 Subpart C Section 15.247 (e)

Test Method

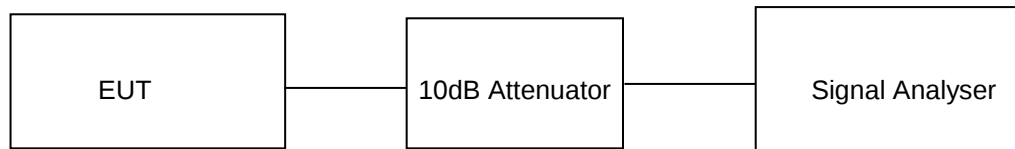
Section 8.4 of KDB 558074 D01 DTS Meas Guidance v05r02 & ANSI C 63.10-2013

Detector

Peak

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 Result:

Attenuator (10 dB) + cable loss (0.5 dB) = 10.5 dB Considered in the test result.

Environmental and Test conditions:

Normal Temperature = +24.3 °C

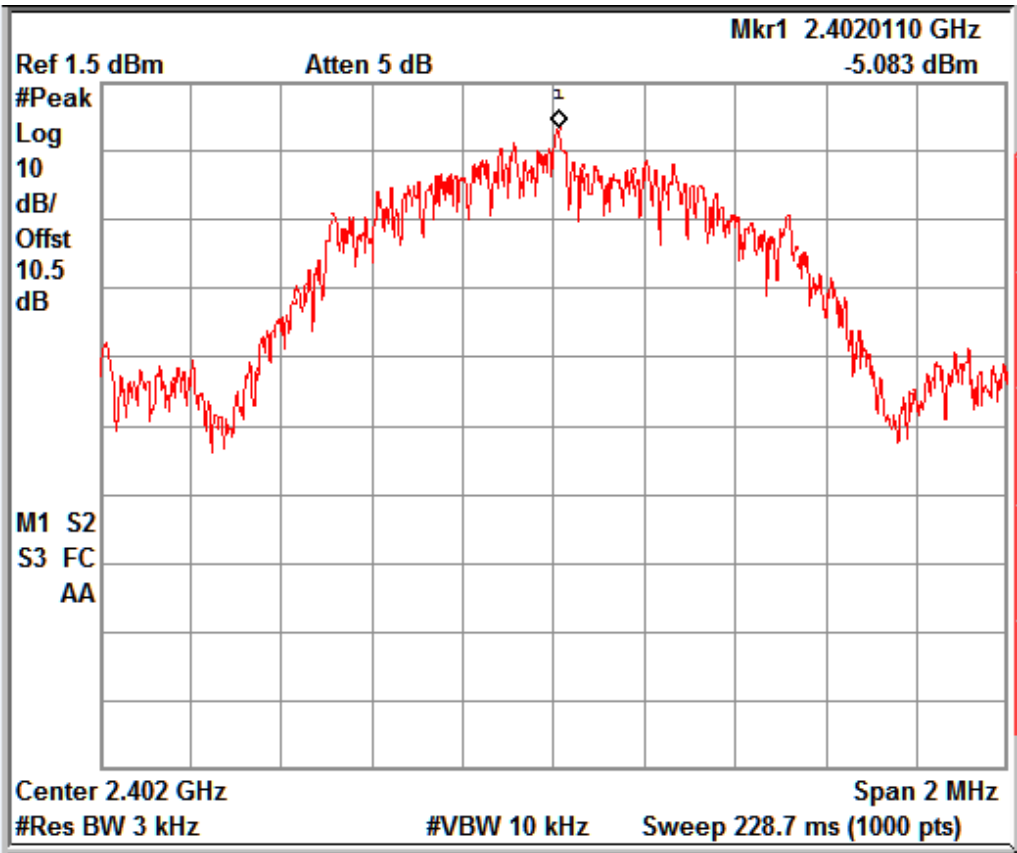
Voltage (V norm) = 5 VDC through Micro USB

RH = 62.2 %

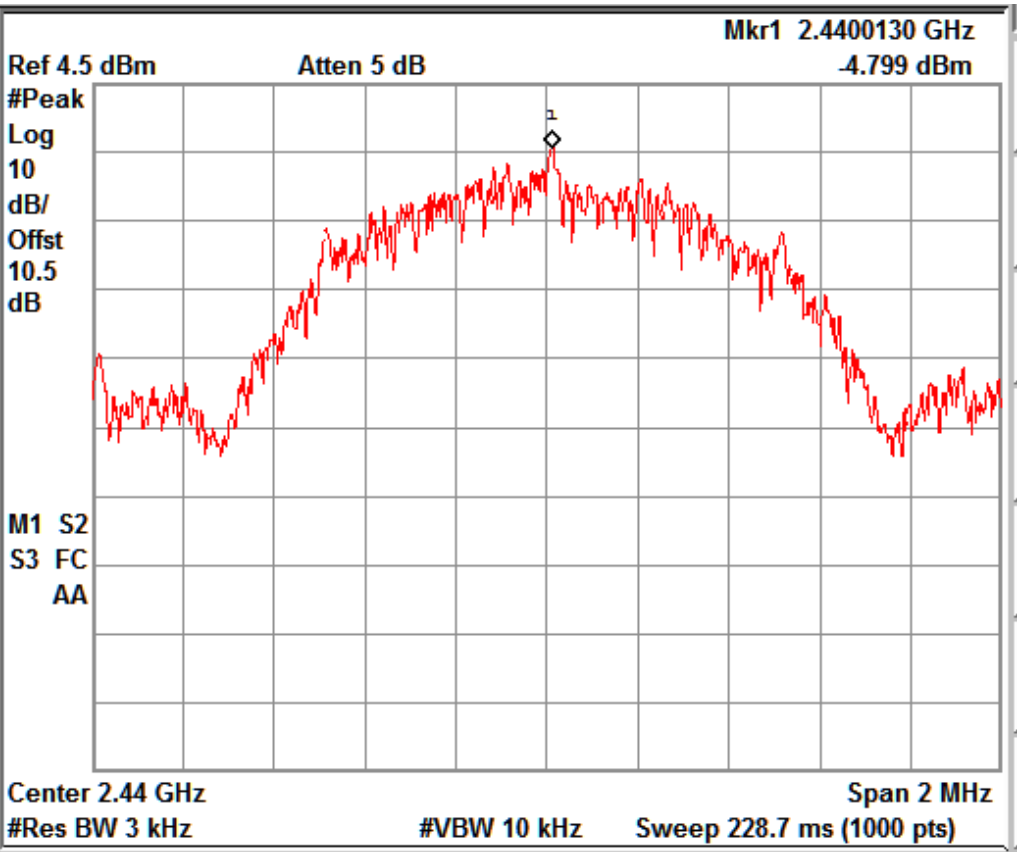
Table 8: Maximum Peak PSD

Channel Frequency (MHz)	Measured Peak PSD (dBm)	Limit (dBm)	Margin (dB)
2402	-5.08	8	-13.08
2440	-4.79	8	-12.79
2480	-4.88	8	-12.88

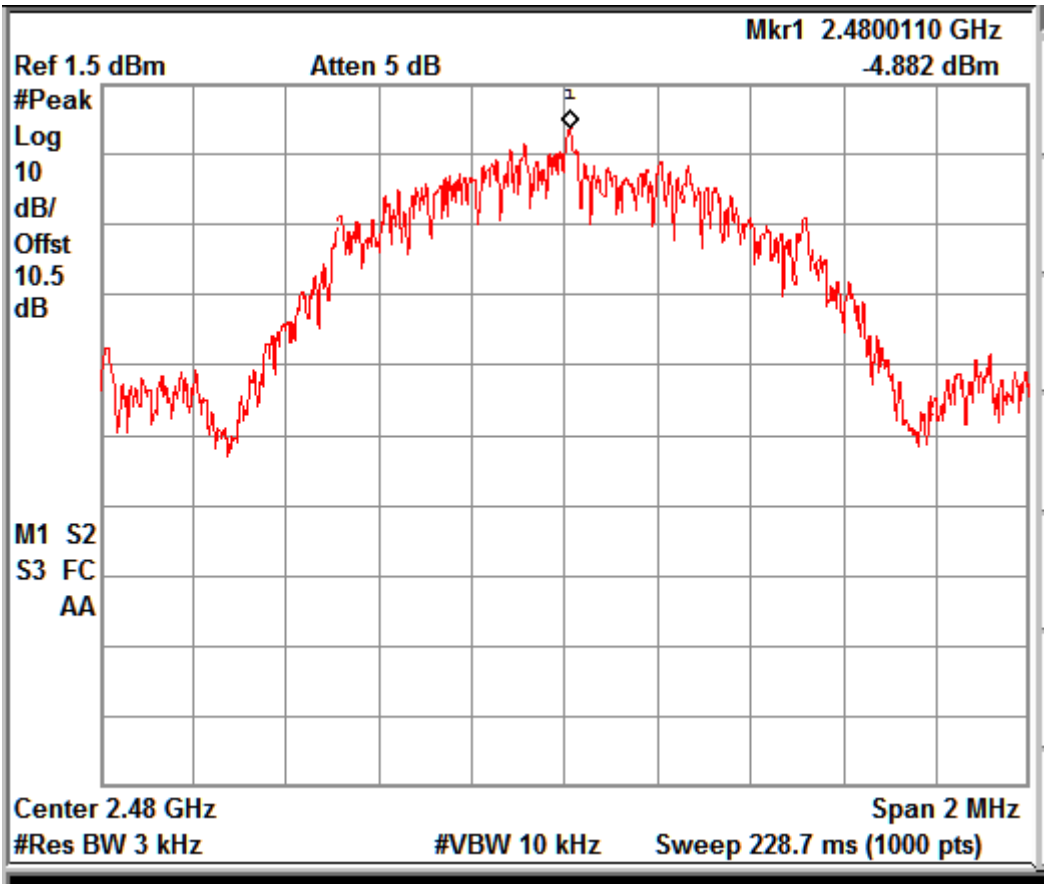
Test plots 3: Maximum peak power spectral density



Channel frequency 2402MHz



Channel frequency 2440MHz



Channel frequency 2480MHz

7.4 Emissions in non- restricted frequency bands and conducted spurious emissions

Result
Pass

Test Specification

FCC part 15 Subpart C Section 15.247 (d)

Test Method

Section 8.5 of KDB 558074 D01 DTS Meas Guidance v05r02 & ANSI C 63.10–2013

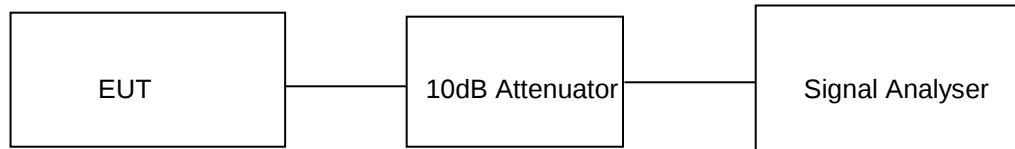
Detector

Peak

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 20dB 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 Result:

Attenuator (10 dB) + cable loss (0.5 dB) = 10.5 dB Considered in the test result.

Environmental and Test conditions:

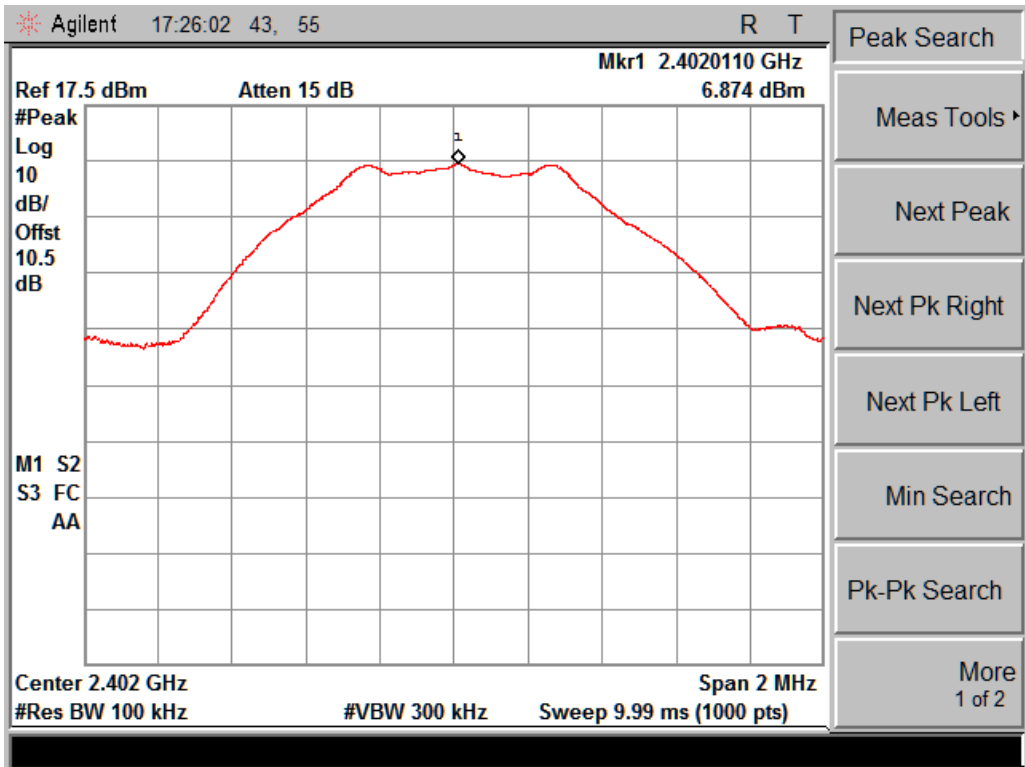
Normal Temperature = +24.3 °C Voltage (V norm) = 5 VDC through Micro USB

RH = 62.2 %

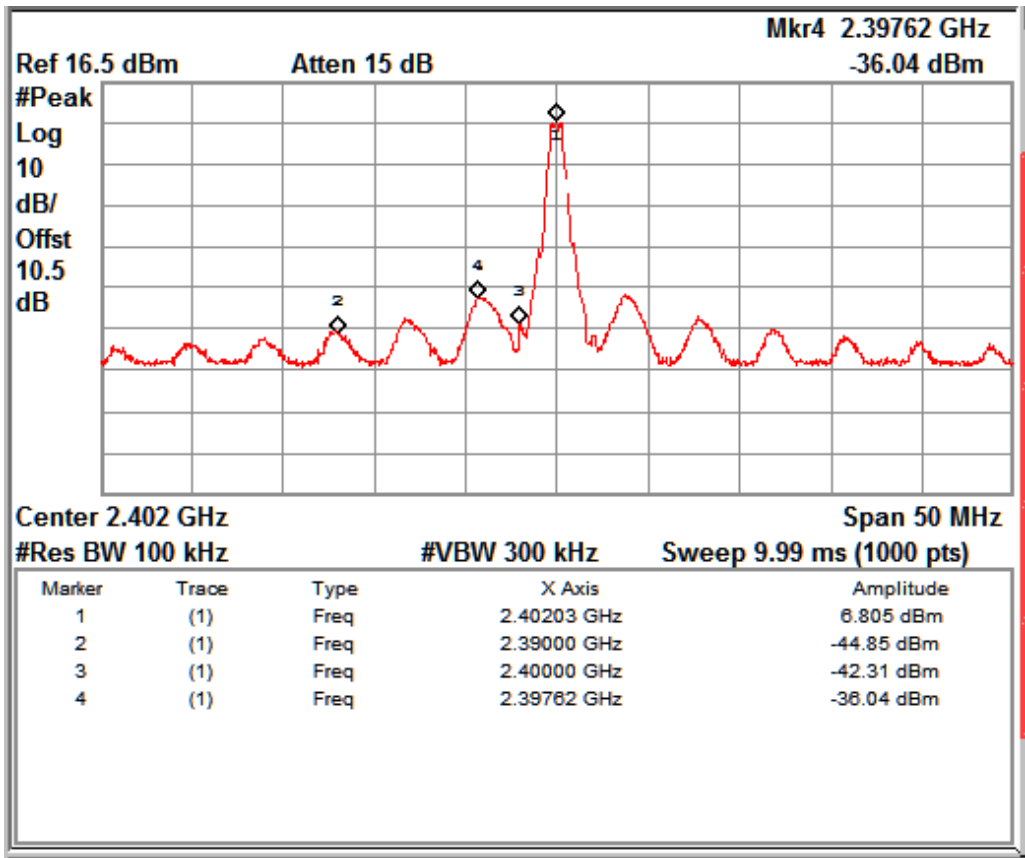
Table 9: Emissions in non- restricted frequency bands / Emission level measurement

Channel Frequency (MHz)	Value at band edge		Reference Value B (dBm)	Band Edge Value A~B (dBc)	Limit (dBc)
	Frequency (MHz)	Value A (dBm)			
2402	2397.62	-36.04	6.87	-42.91	20
2480	2483.50	-35.40	6.39	-41.79	20

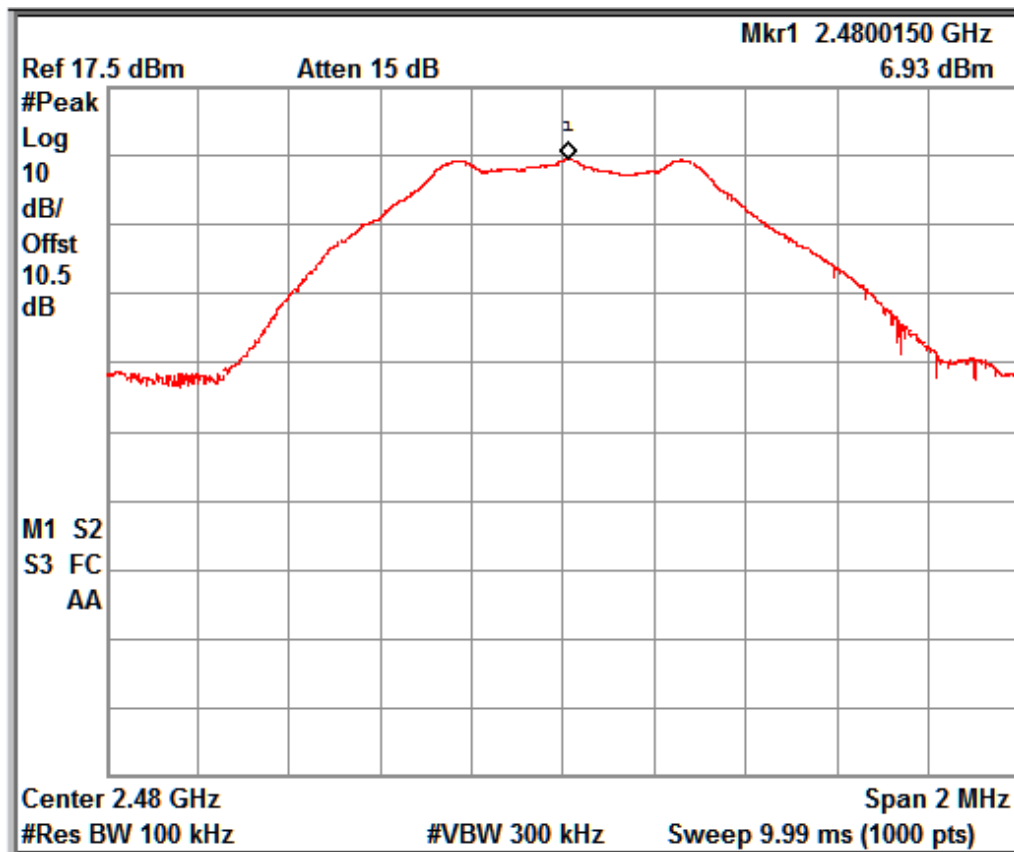
Test plots 4: Emissions in non-restricted frequency bands /reference level plots



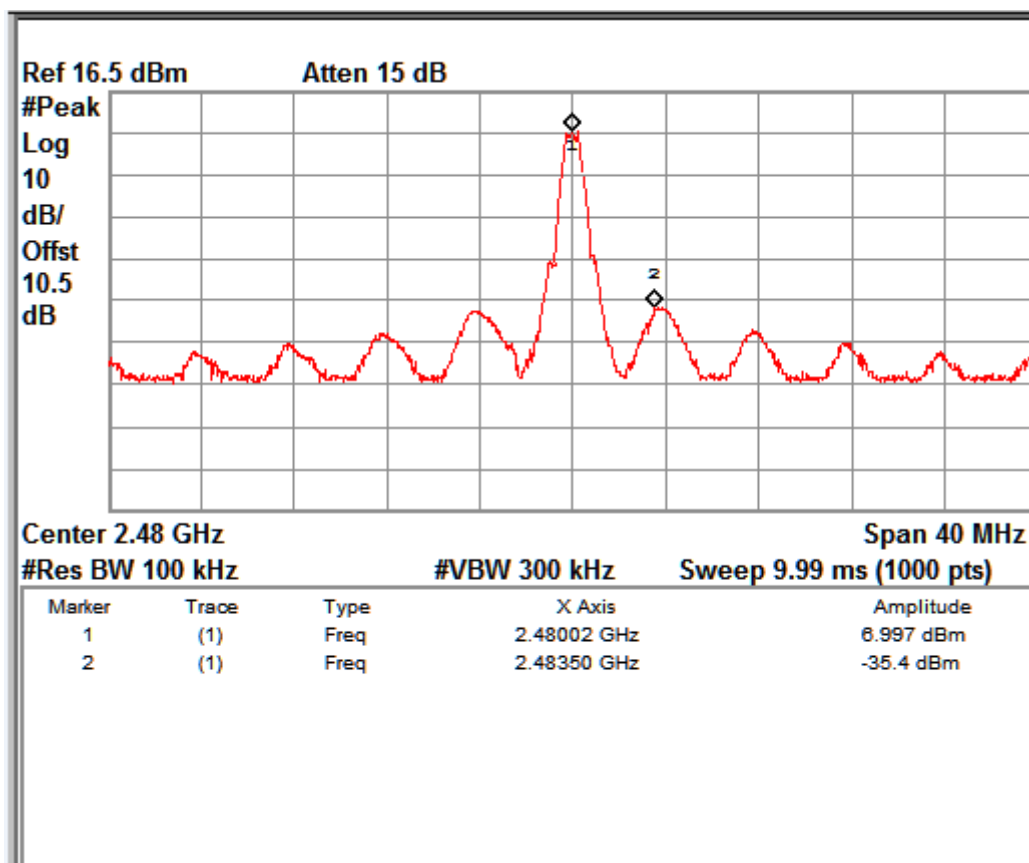
Reference level measurement plot /channel frequency 2402MHz



Emissions in non-restricted bands plot/channel frequency 2402MHz



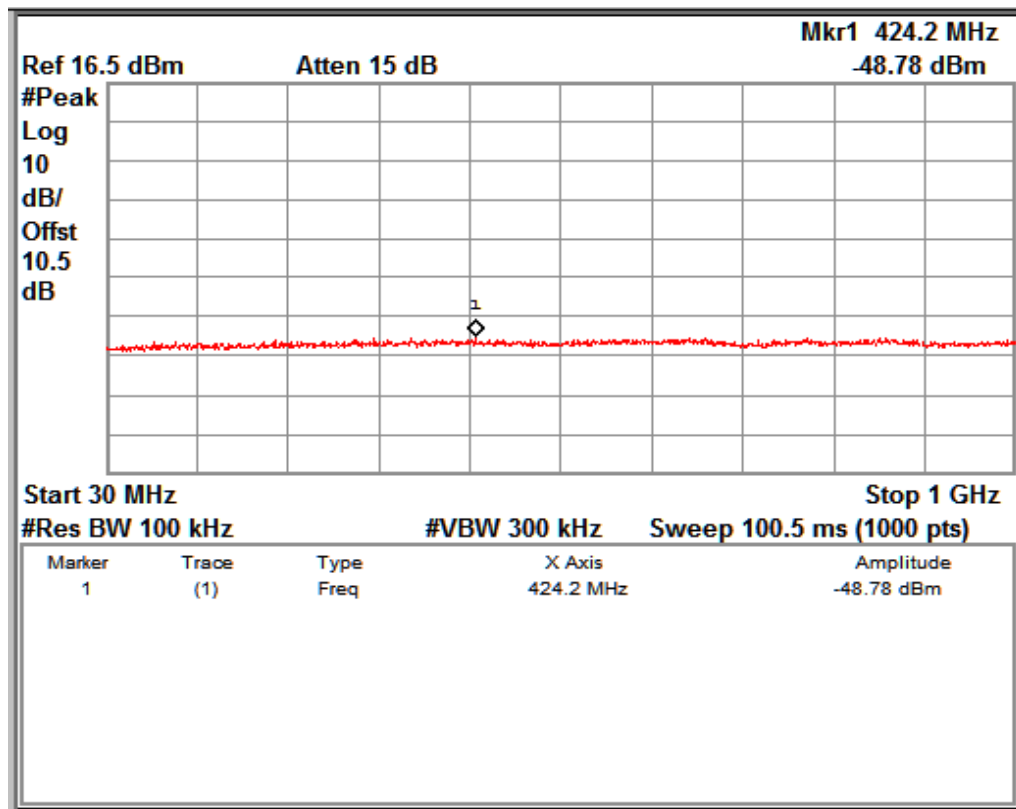
Reference level measurement plot /channel frequency 2480MHz



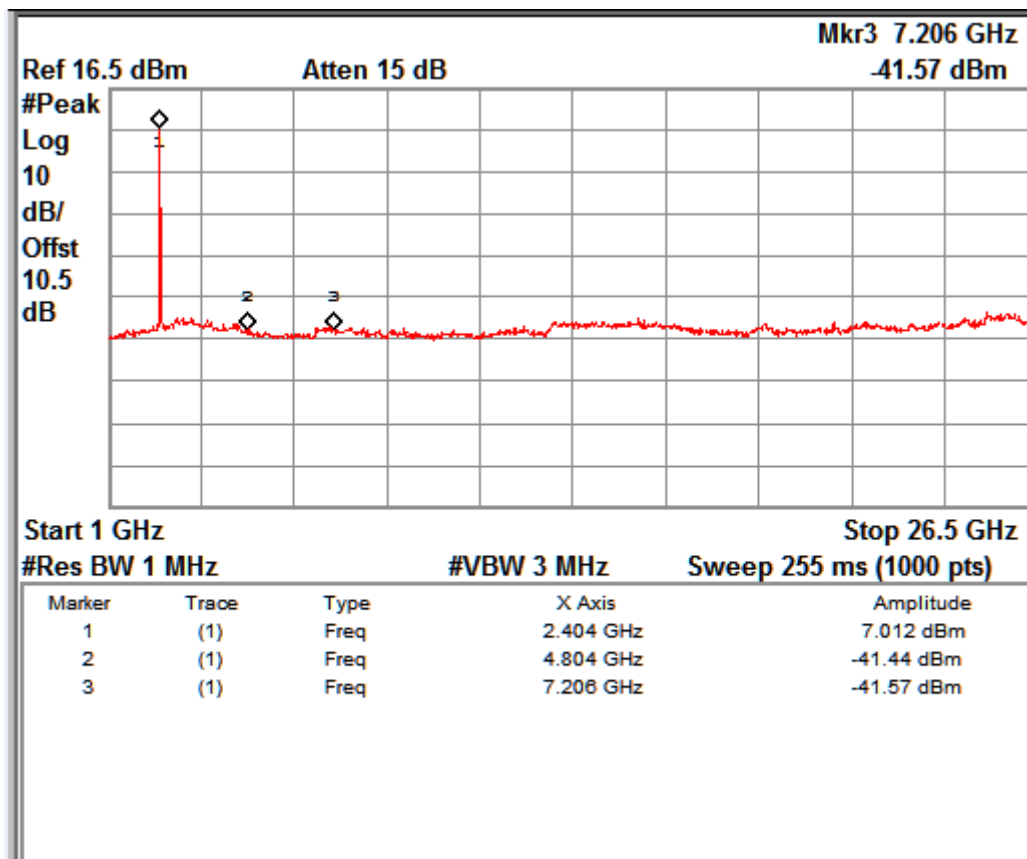
Emissions in non-restricted bands plot/channel frequency 2480MHz

7.4.1 Conducted spurious emission

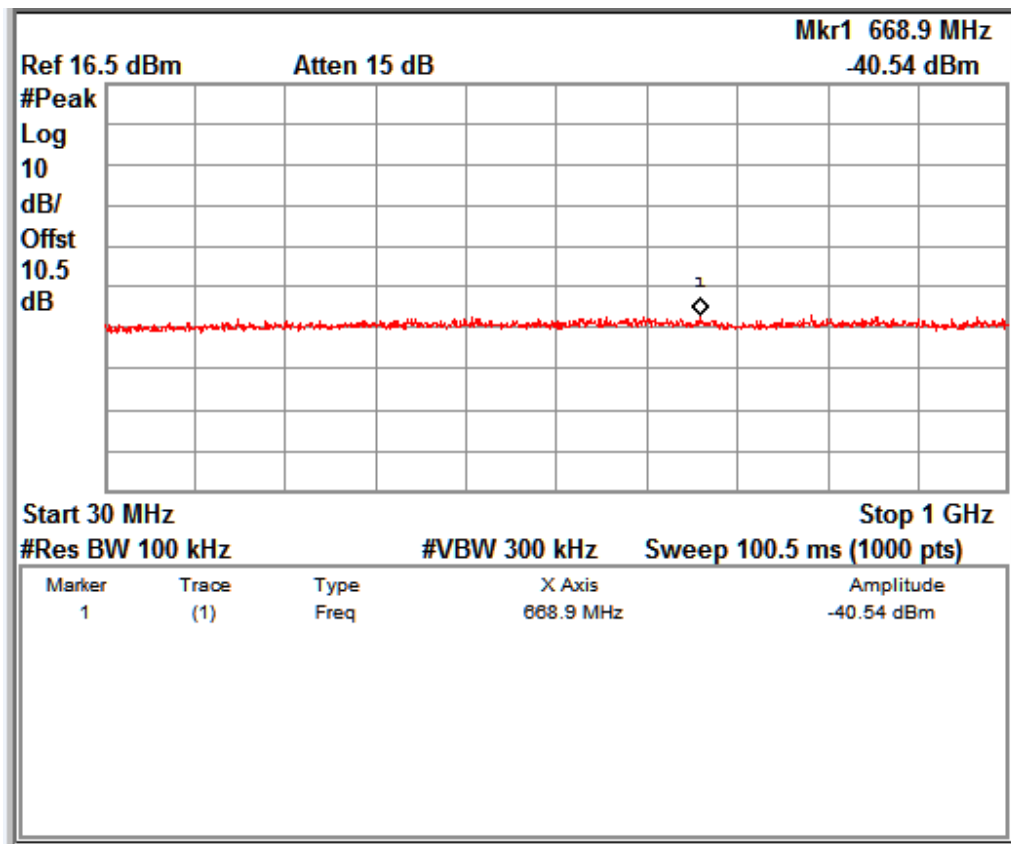
Test plots 5 : Conducted spurious emissions plots



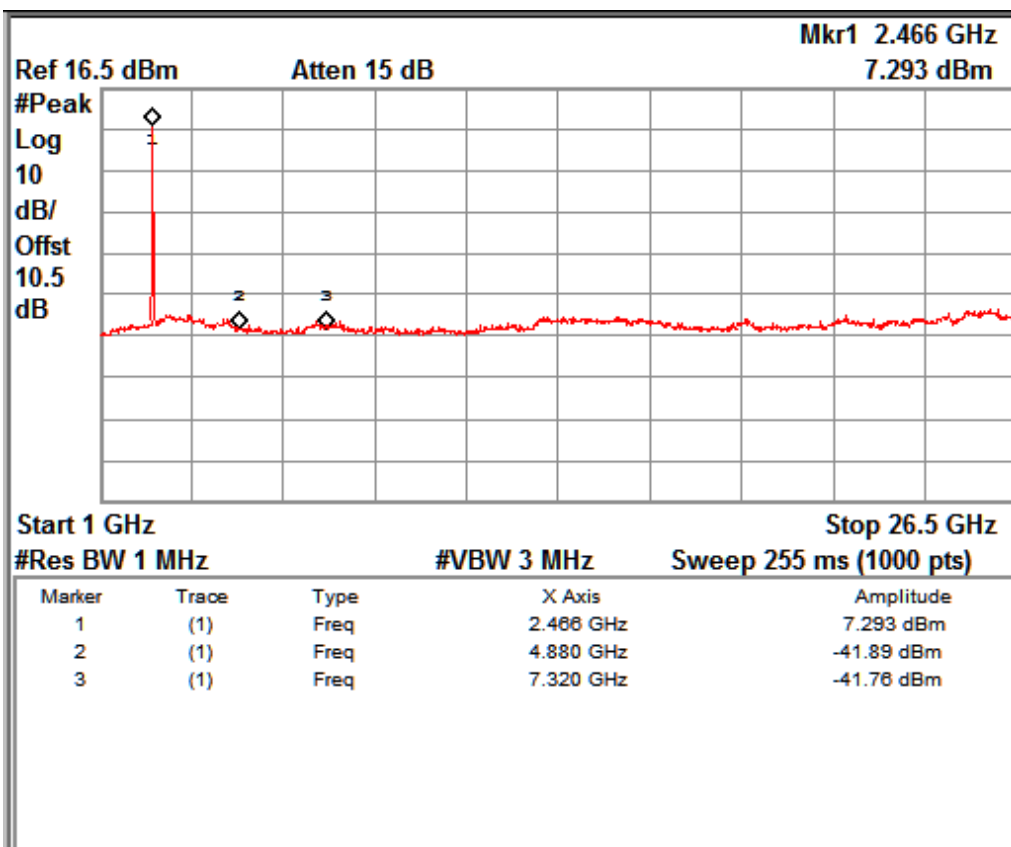
Conducted spurious emissions in 30MHz to 1GHz/Channel frequency 2402MHz



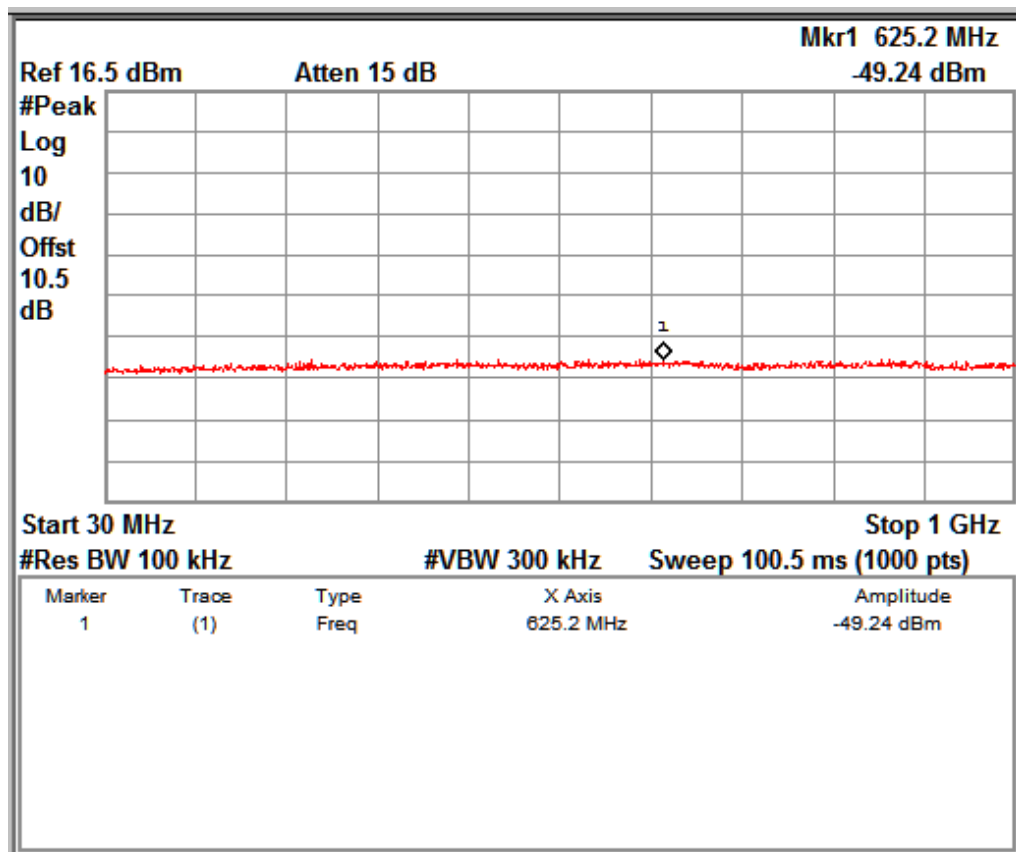
Conducted spurious emissions in 1GHz to 26GHz/Channel frequency 2402MHz



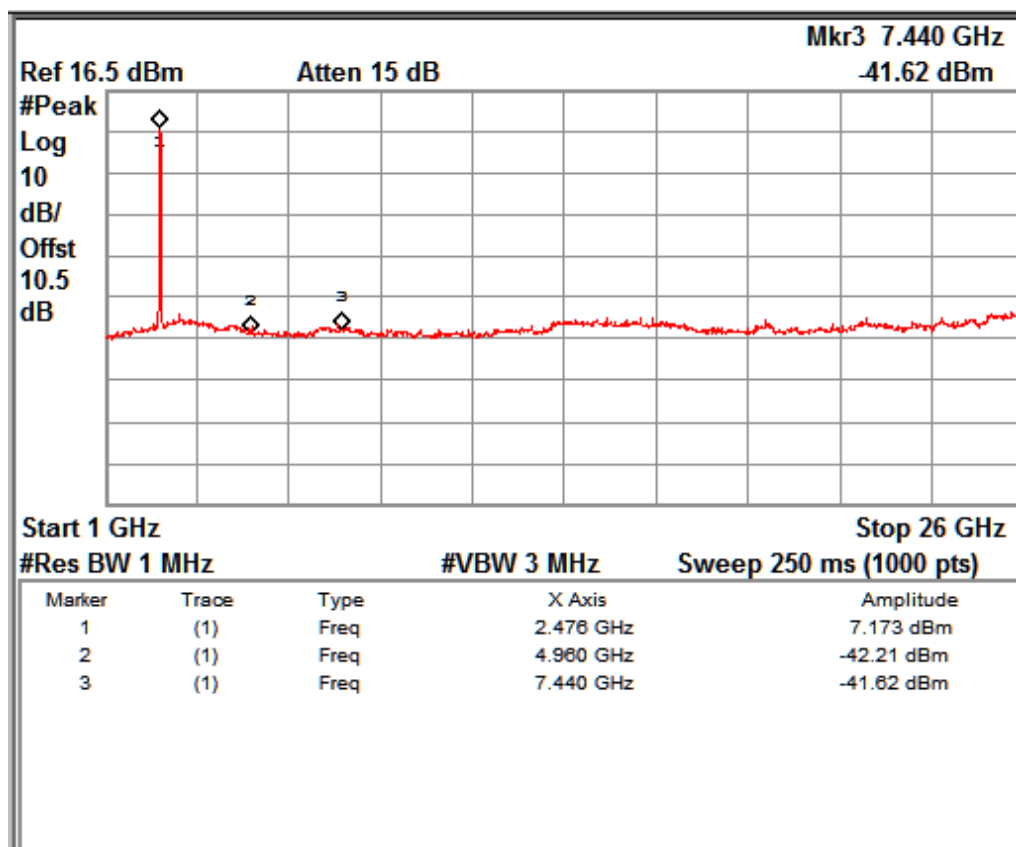
Conducted spurious emissions in 30MHz to 1GHz/Channel frequency 2440MHz



Conducted spurious emissions in 1GHz to 26GHz/Channel frequency 2440MHz



Conducted spurious emissions in 30MHz to 1GHz/Channel frequency 2480MHz



Conducted spurious emissions in 1GHz to 26GHz/Channel frequency 2480MHz

8 TEST METHODOLOGY

8.1 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.

8.1.1 Test Setup Configuration

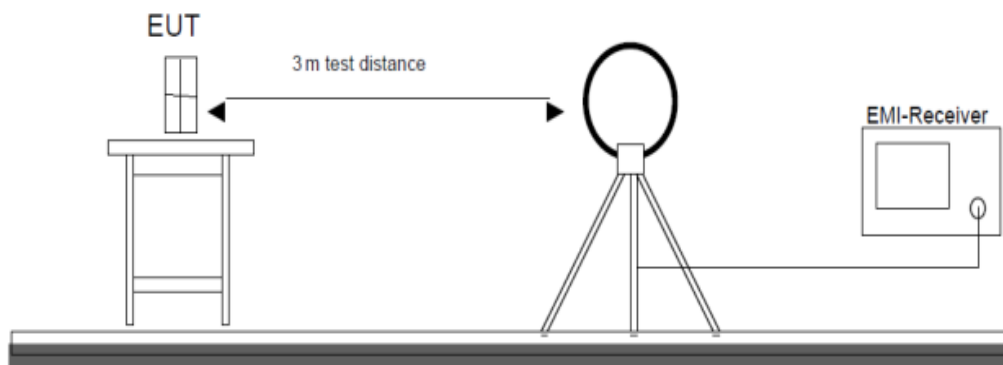


Figure 1: Frequency Range 9 kHz- 30 MHz

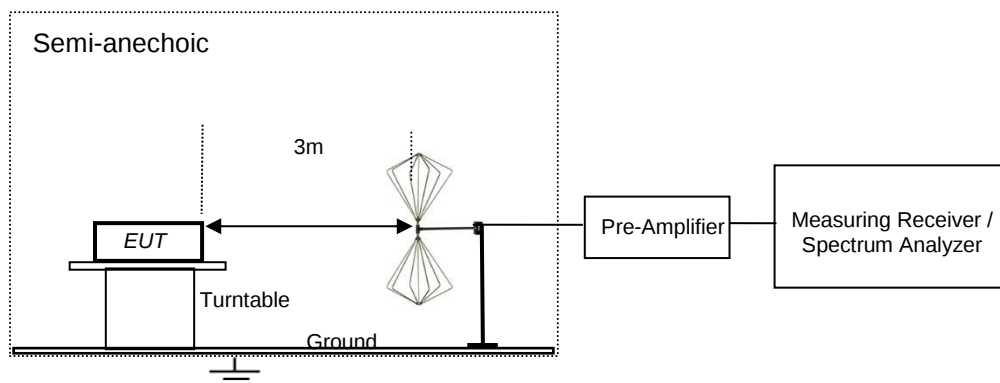


Figure 2: Frequency Range 30 MHz – 200 MHz

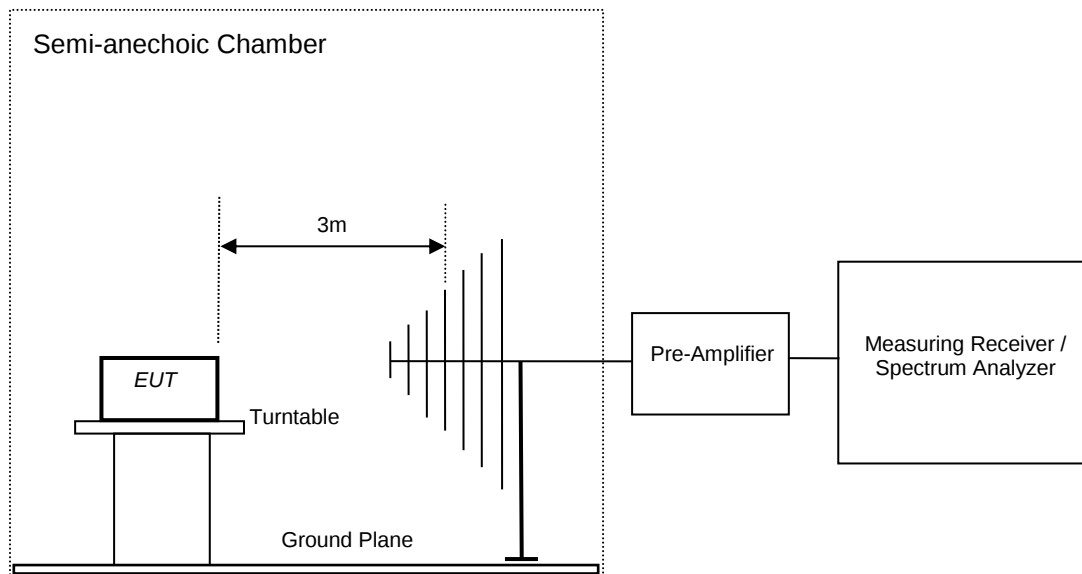


Figure 3: Frequency Range 200 MHz - 1GHz

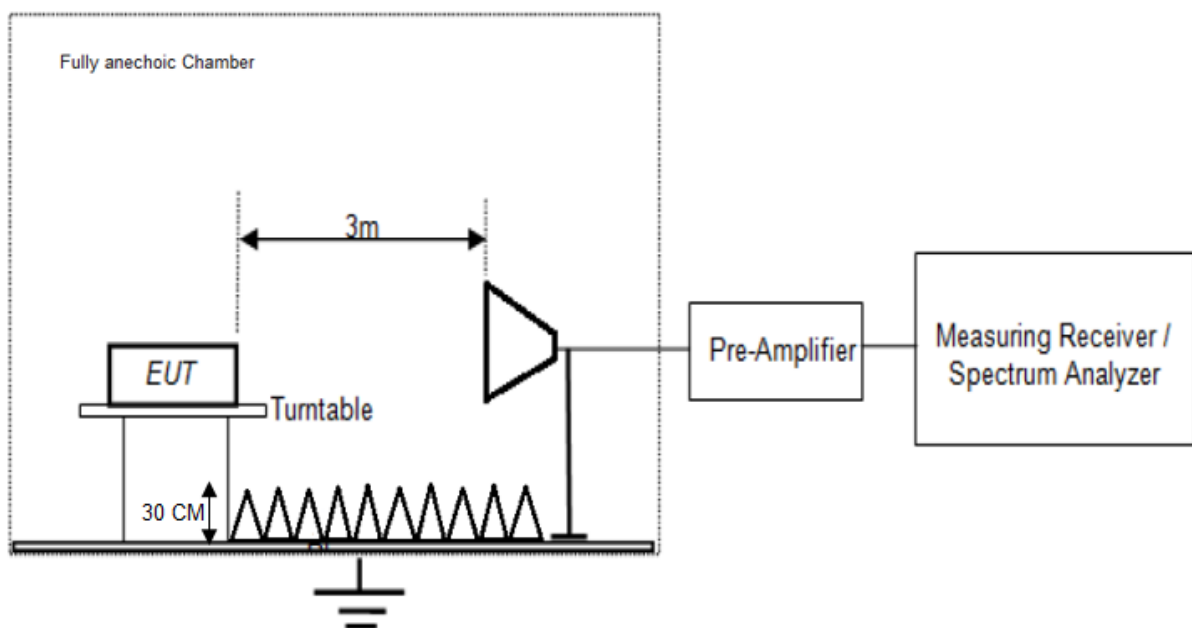


Figure 4: Frequency Range 1GHz – 26GHz

8.2 Spurious Radiated Emissions & Restricted Bands of Operation

Result
Pass

Test Specification	FCC Part 15 Subpart C Section 15.247(d) / (15.209 & 15.205) and
Test Method	ANSI C 63.10 - 2013
Measurement Location	Semi Anechoic Chamber < 1 GHz Fully Anechoic Chamber > 1 GHz
Measuring Distance	3 m
Detector	As mentioned in the Remark
Requirement	As per the limits mentioned in the below table

Table 10: 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:

Supply Voltage: 110VAC and 60Hz to USB adaptor

Environmental conditions:

Temperature: +23.5 °C

RH: 55 %

Test results:
Frequency Range: 9 kHz to 30 MHz

No emissions found in this frequency range.

Table 11: Spurious radiated emissions in frequency range 30MHz to 200MHz

Antenna Polarization	Measured Frequency (MHz)	Measured Field strength of spurious Emission (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Vertical	40.13	14.84	40.00	-25.16
	60.39	27.11	40.00	-12.89
	76.87	24.17	40.00	-15.83
	96.00	12.22	43.50	-31.28
	100.54	19.37	43.50	-24.13
	100.61	20.14	43.50	-23.36
Horizontal	40.60	3.16	40.00	-36.84
	60.39	4.17	40.00	-35.83
	76.62	8.73	40.00	-31.27
	100.58	4.35	43.50	-39.15
	153.01	6.20	43.50	-37.30
	196.18	10.25	43.50	-33.25

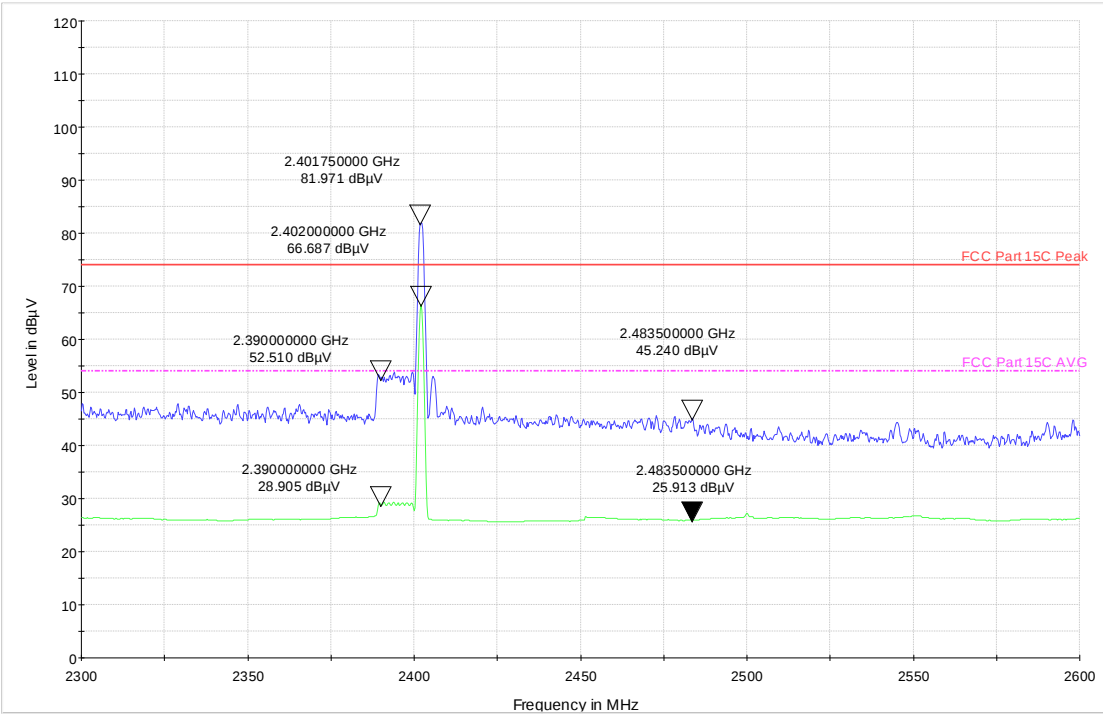
Table 12: Spurious radiated emissions in frequency range 200MHz to 1GHz

Antenna Polarization	Measured Frequency (MHz)	Measured Field strength of spurious Emission (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
Vertical	223.97	13.57	46.00	-32.43
	288.00	15.90	46.00	-30.10
	480.00	23.38	46.00	-22.62
Horizontal	288.03	16.26	46.00	-29.74
	448.03	18.36	46.00	-27.64
	480.03	20.18	46.00	-25.82

Table 13: Field strength of Fundamental Emissions and Restricted bands of operation

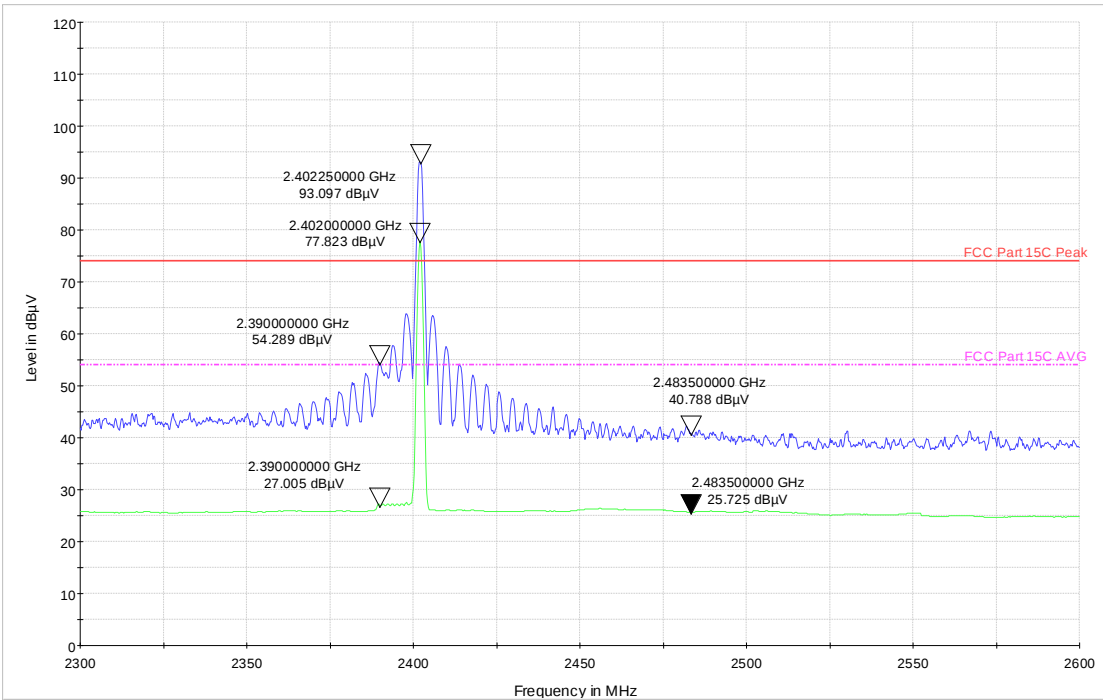
Channel Frequency (MHz)	Antenna Polarization	Measured Frequency (MHz)	Measured Field strength of spurious emissions (dBµV/m)	Limit (dBµV/m)	Margin (dB)
Low	Vertical	2390(Pk)	52.51	74	-21.49
		2390(Av)	28.90	54	-25.21
		2402(Pk)	81.97	*	-
		2402(Av)	66.68	*	-
		4804(Pk)	55.63	74	-18.37
		4804(Av)	39.42	54	-14.58
		7206(Pk)	62.05	74	-11.95
		7206(Av)	43.98	54	-10.02
	Horizontal	2390(Pk)	54.28	74	-19.72
		2390(Av)	27.00	54	-27.00
		2402(Pk)	93.09	*	-
		2402(Av)	77.82	*	-
		4804(Pk)	59.29	74	-14.71
		4804(Av)	42.59	54	-11.41
		7206(Pk)	56.56	74	-17.44
		7206(Av)	40.00	54	-14.00
Mid	Vertical	2440(Pk)	84.02	*	-
		2440(Av)	68.77	*	-
		4880(Pk)	57.04	74	-16.96
		4880(Av)	40.50	54	-13.50
		7320(Pk)	62.76	74	-11.24
		7320(Av)	44.75	54	-9.25
	Horizontal	2440(Pk)	93.39	*	-
		2440(Av)	78.15	*	-
		4880(Pk)	59.60	74	-14.40
		4880(Av)	42.87	54	-11.13
		7320(Pk)	56.63	74	-17.37
		7320(Av)	40.07	54	-13.93
High	Vertical	2480(Pk)	84.42	*	-
		2480(Av)	69.23	*	-
		2483.5(Pk)	54.72	74	-19.28
		2483.5(Av)	26.40	54	-27.60
		4960(PK)	62.34	74	-11.66
		4960(Av)	45.46	54	-8.54
		7440(Pk))	63.03	74	-10.97
		7440(Av))	45.28	54	-8.72
	Horizontal	2480(Pk)	93.97	*	-
		2480(Av)	78.65	*	-
		2483.5(Pk)	64.39	74	-9.61
		2483.5(Av)	25.34	54	-28.66
		4960(PK)	60.76	74	-13.24
		4960(Av)	43.93	54	-10.07
		7440(Pk)	57.51	74	-16.49
		7440(Av)	40.28	54	-13.72

Note: Measured Emissions (dBµV/m) = Received Emissions(dBµV) + Antenna Factor(dB/m)+ Cable Loss(dB) – Pre-amplifier Gain(dBi)

Test plots 6: Emissions in Restricted frequency bands


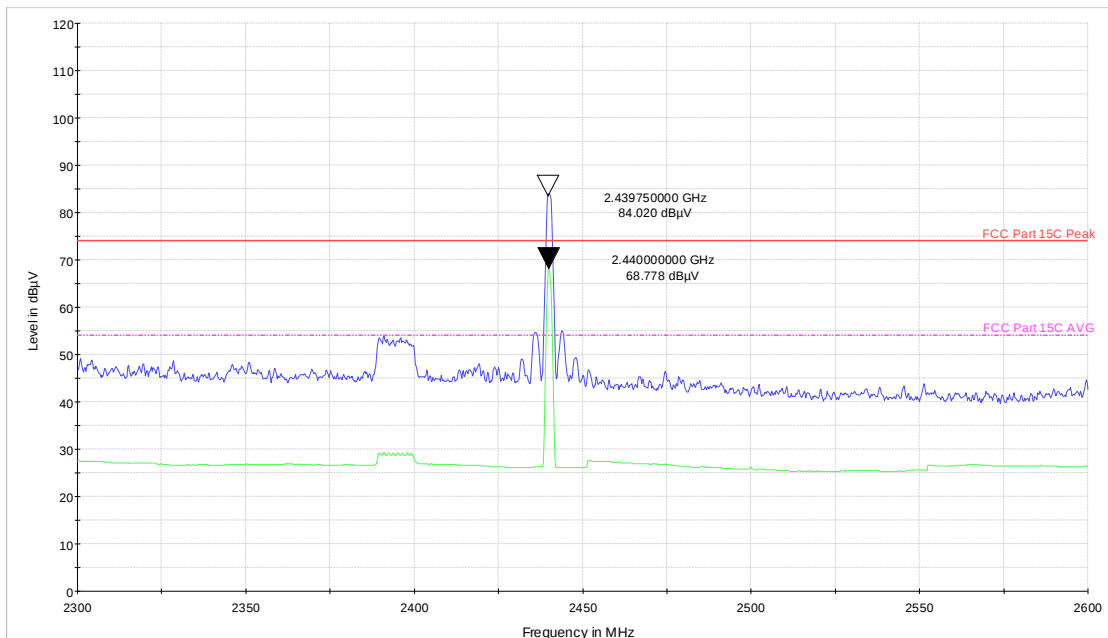
Vertical polarization

Channel frequency 2402MHz



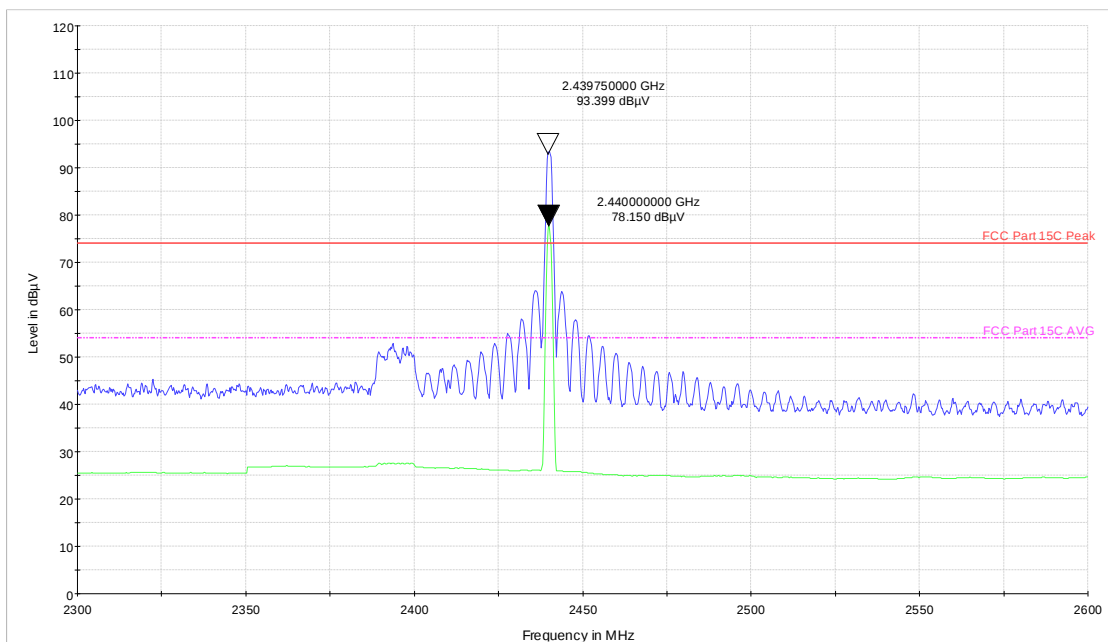
Horizontal polarization

Channel frequency 2402MHz



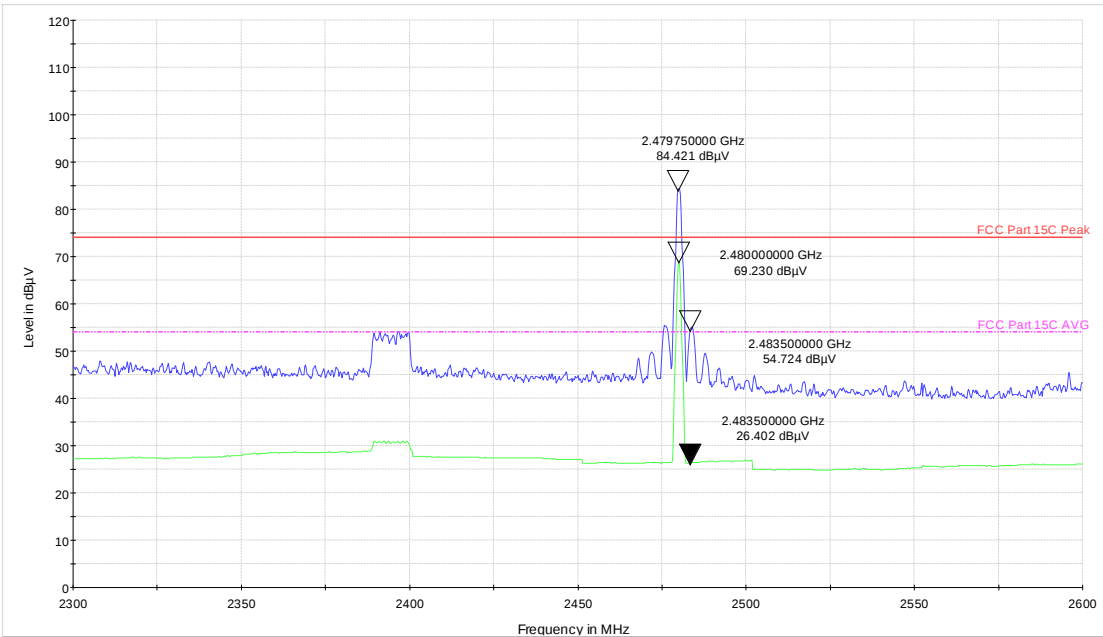
Vertical polarization

Channel frequency 2440MHz



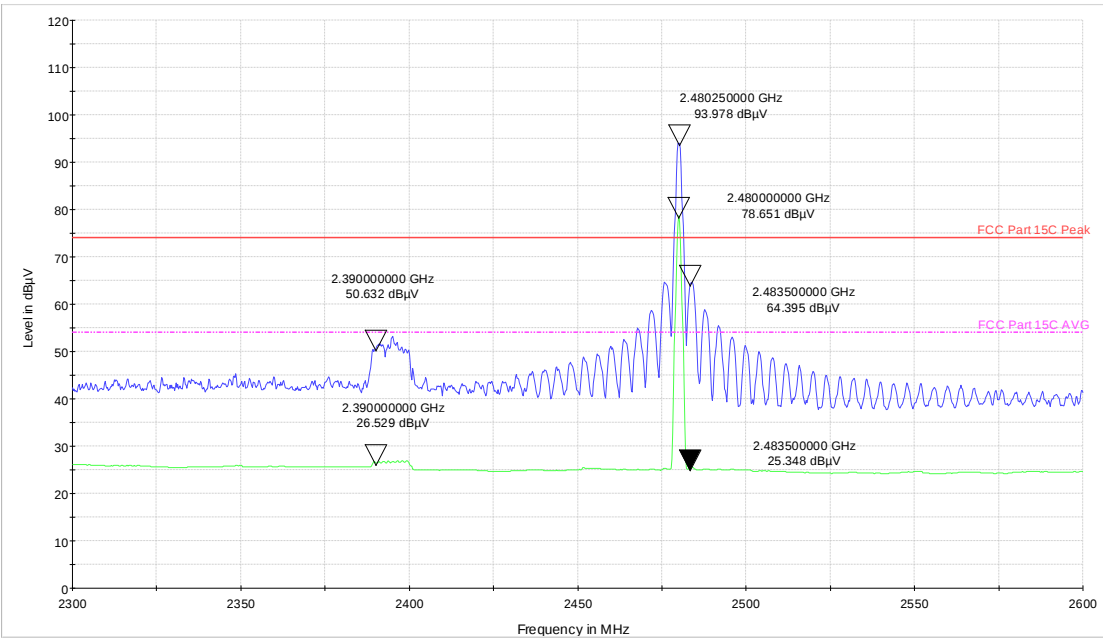
Horizontal polarization

Channel frequency: 2440MHz



Vertical polarization

Channel frequency 2480MHz

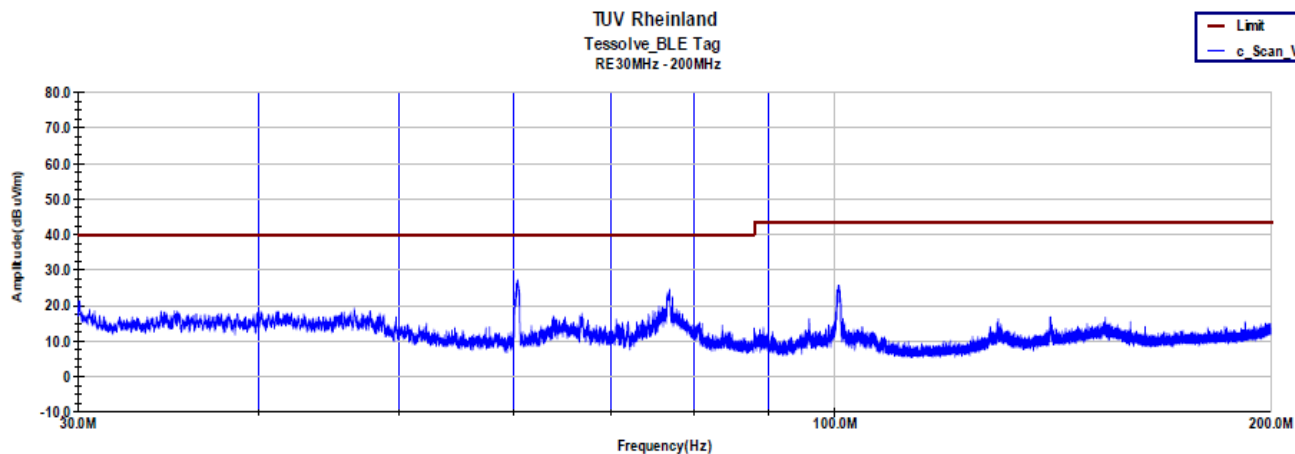


Horizontal polarization

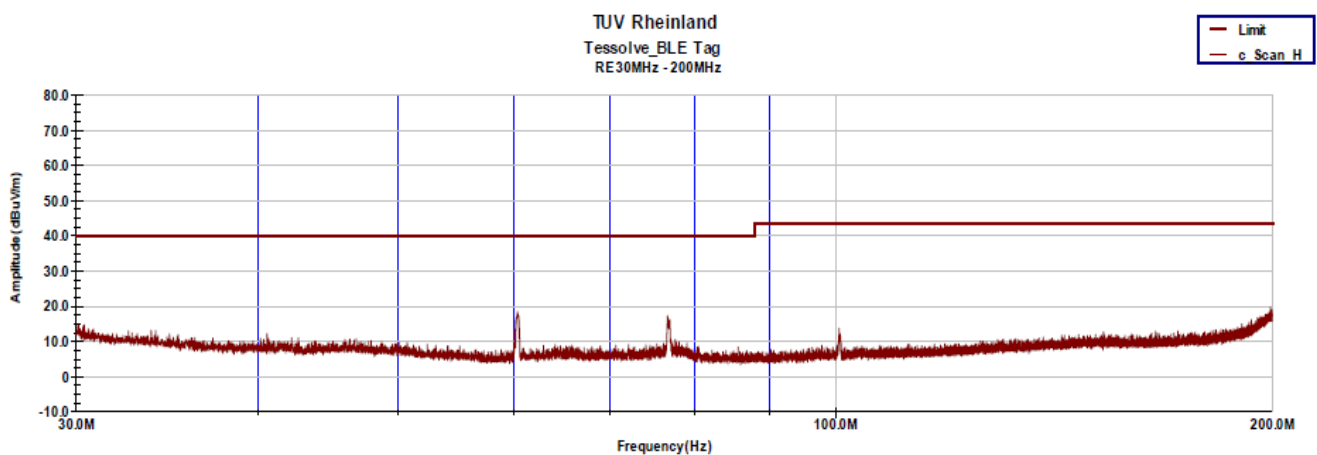
Channel frequency 2480MHz

Test plots 7: Spurious Radiated Emissions below 1GHz

30MHz to 200MHz

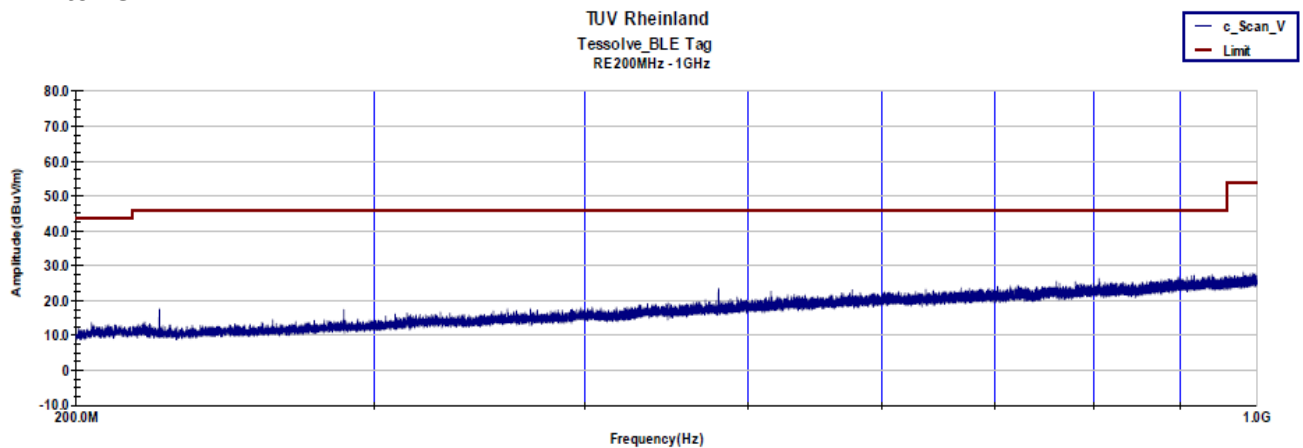


Vertical polarization

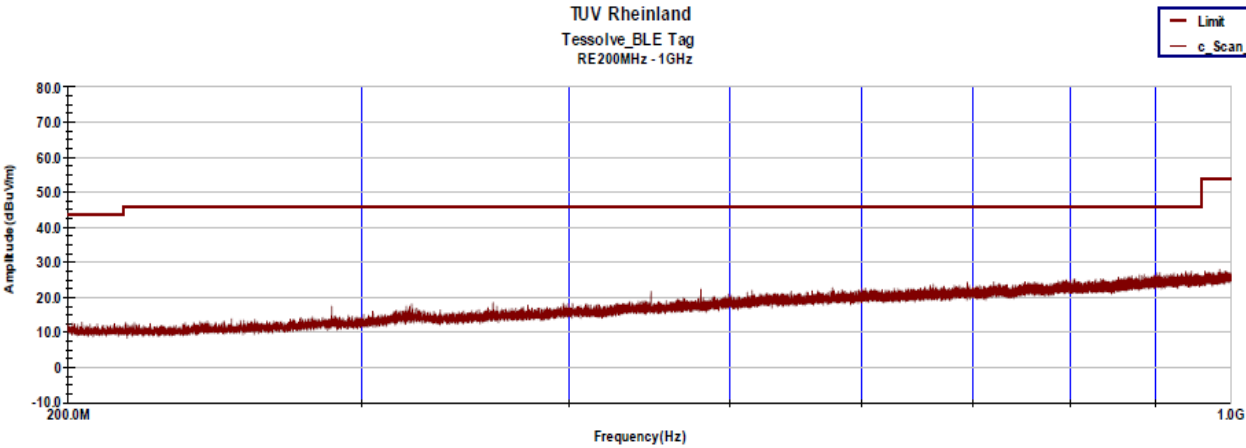


Horizontal polarization

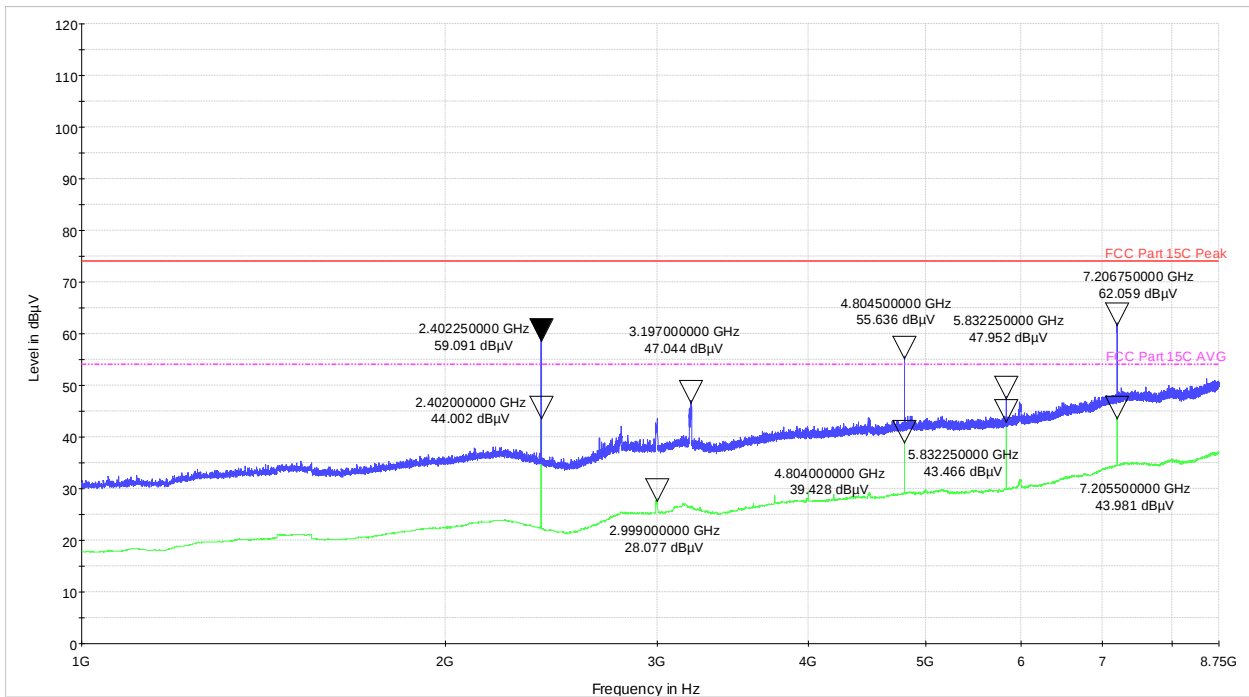
200MHz to 1GHz



Vertical polarization

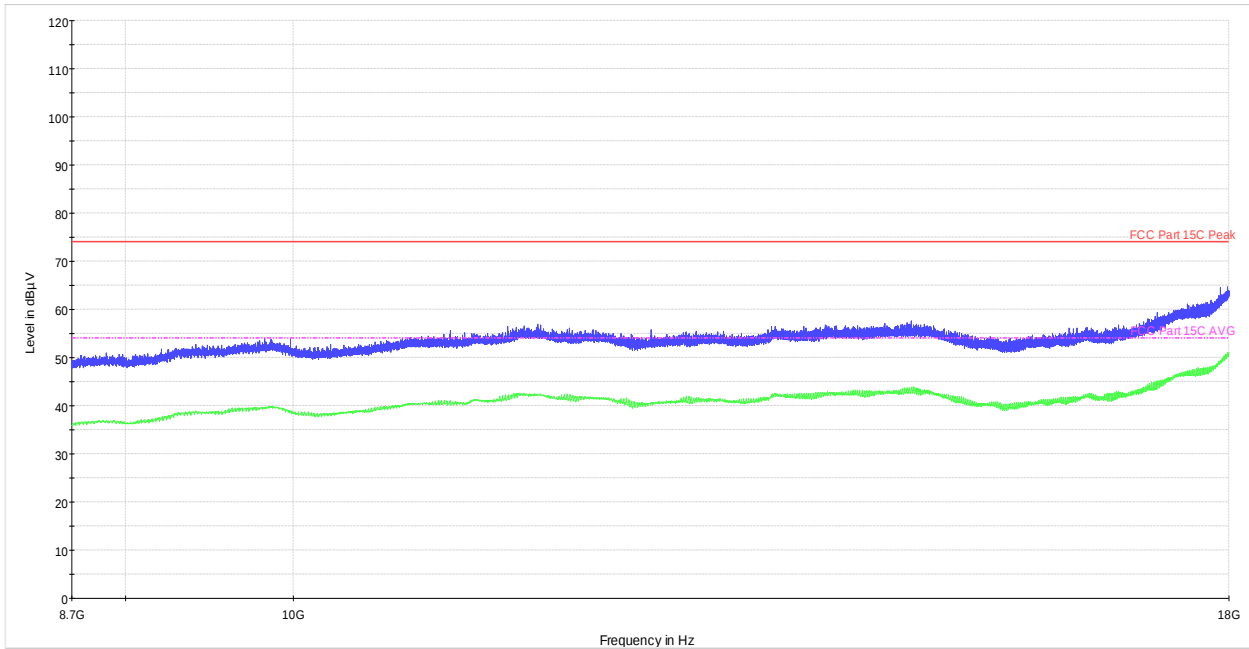


Test plots 8: Spurious Radiated emissions above 1GHz



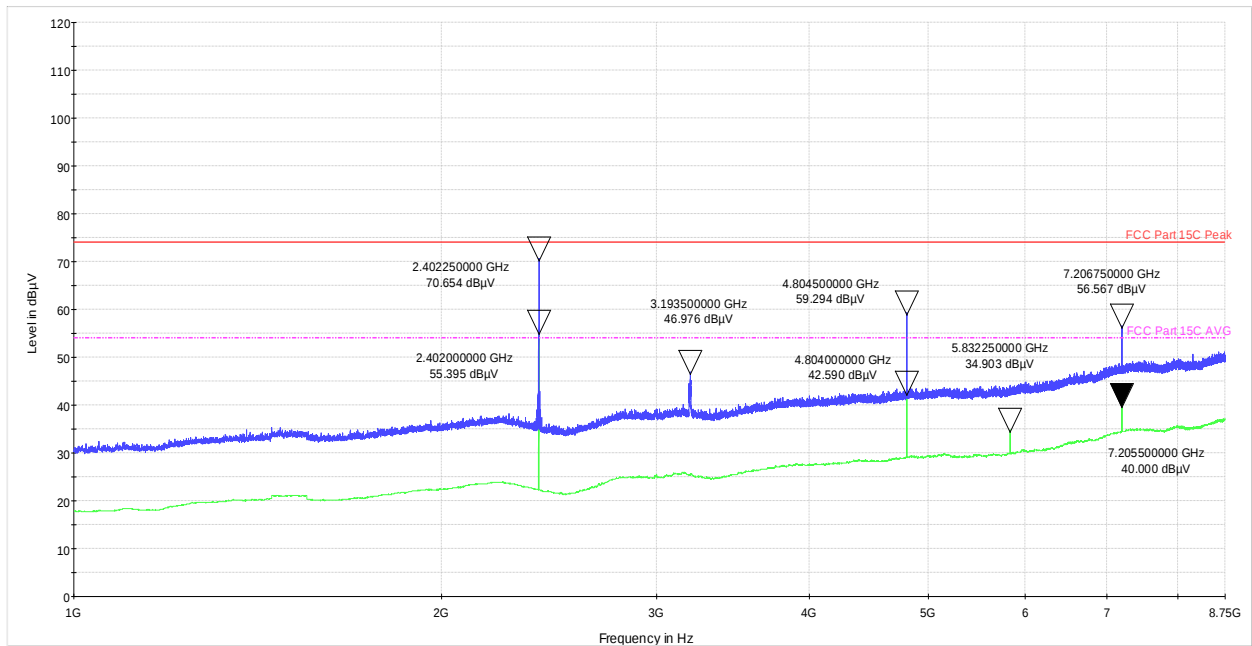
Vertical polarization

Channel frequency 2402MHz



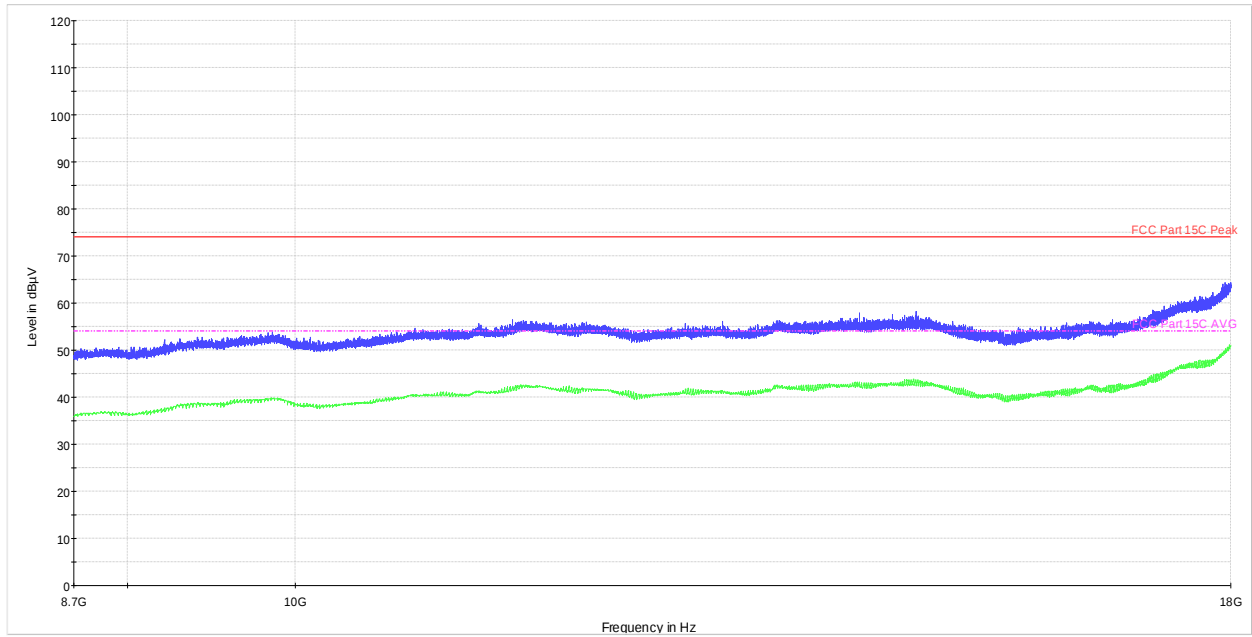
Vertical polarization

Channel frequency 2402MHz



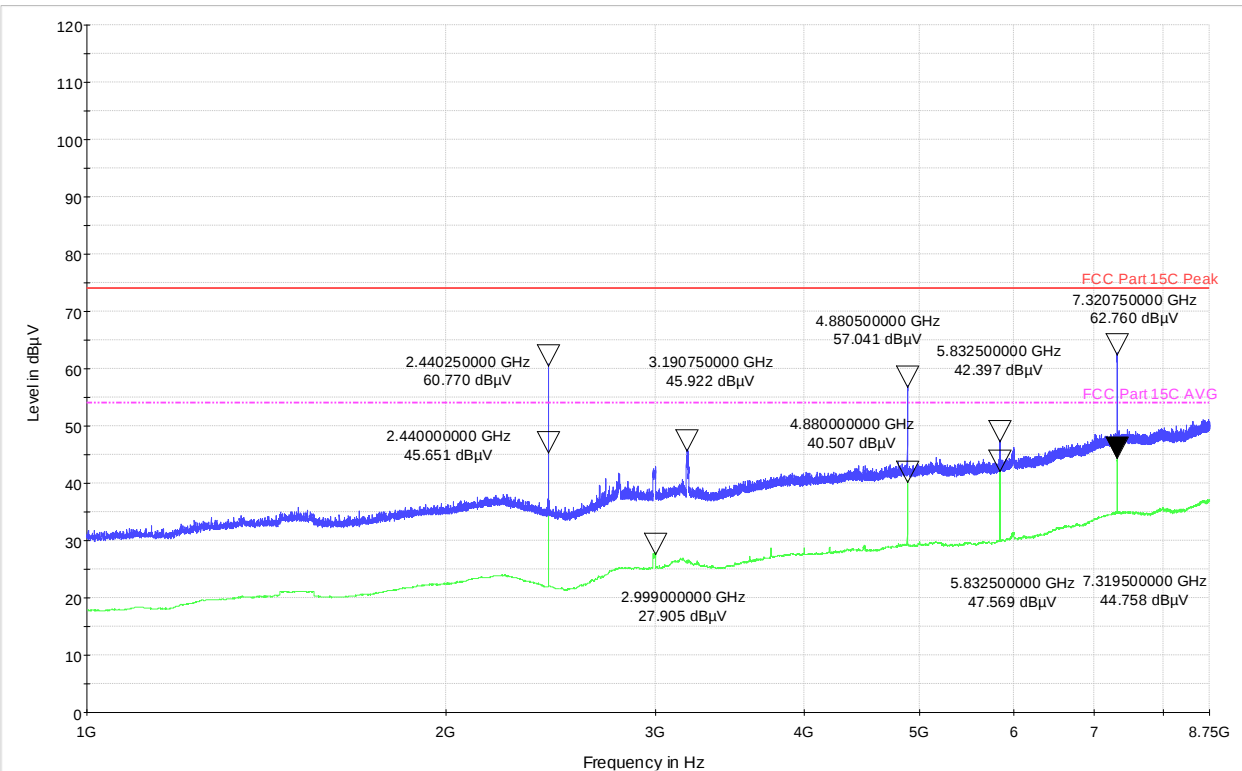
Horizontal polarization

Channel frequency 2402MHz



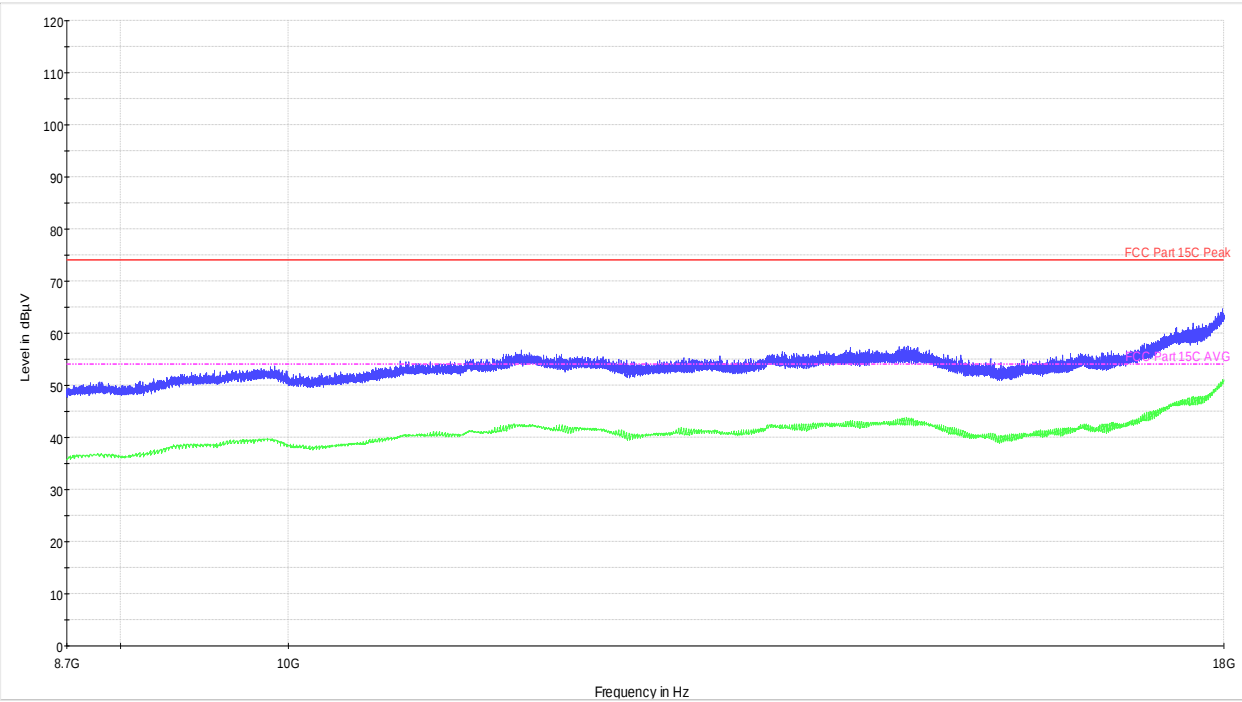
Horizontal polarization

Channel frequency 2402MHz



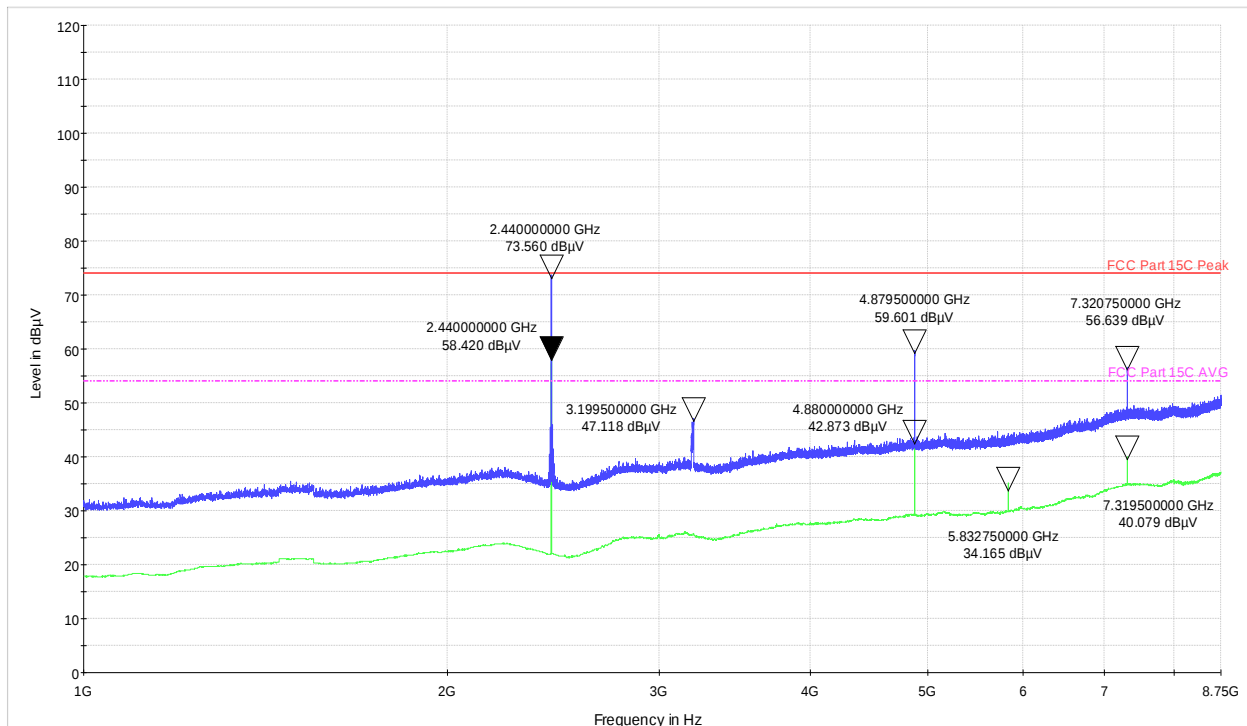
Vertical polarization

Channel frequency 2440MHz



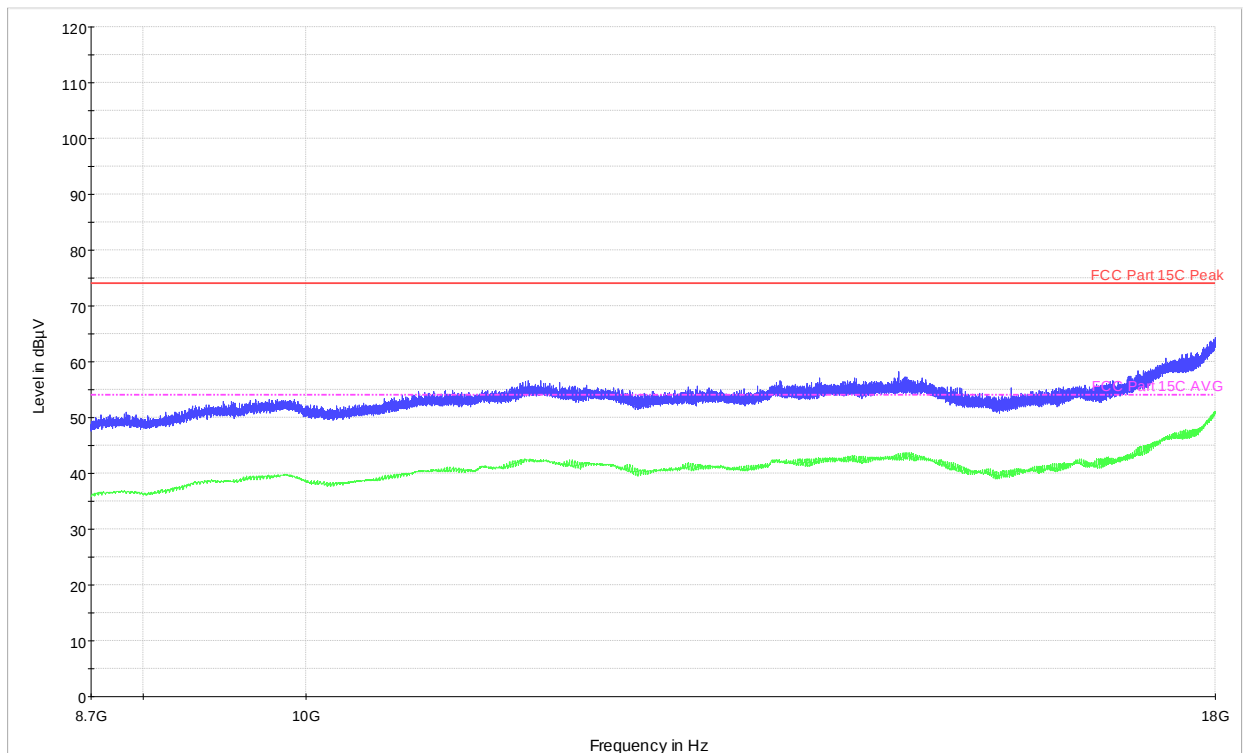
Vertical polarization

Channel frequency 2440MHz



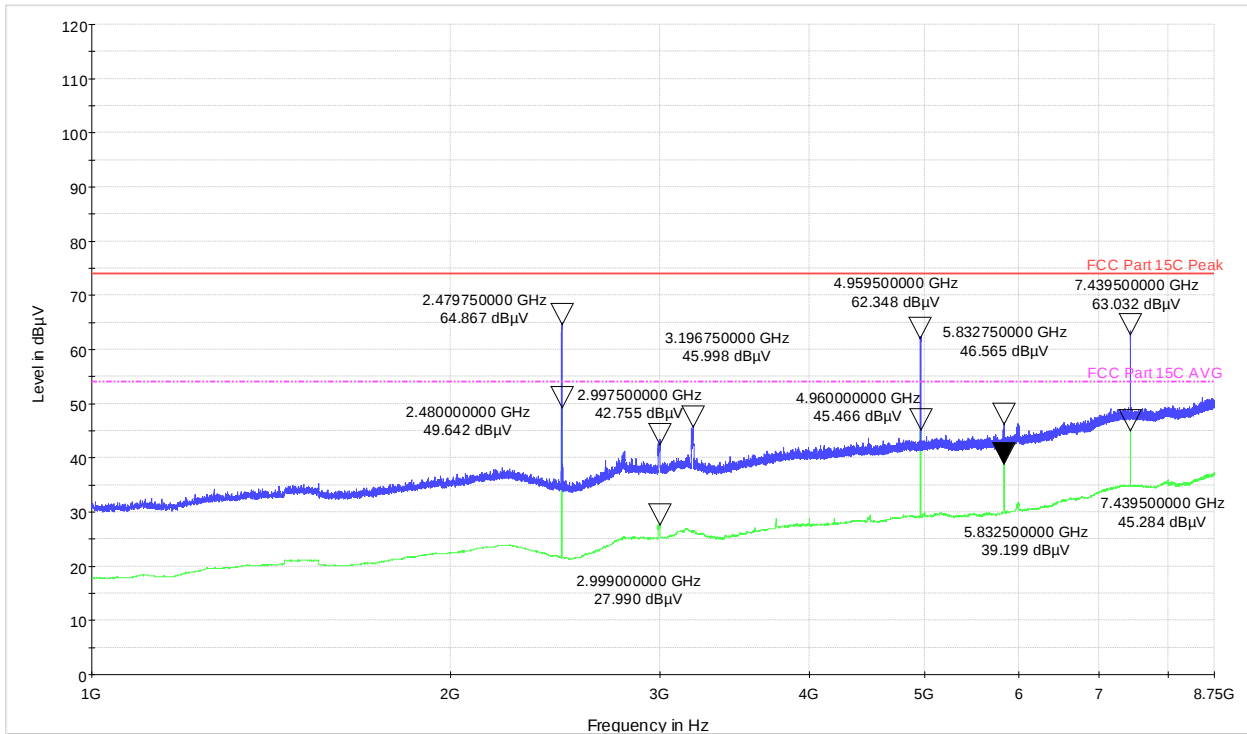
Horizontal polarization

Channel frequency 2440MHz



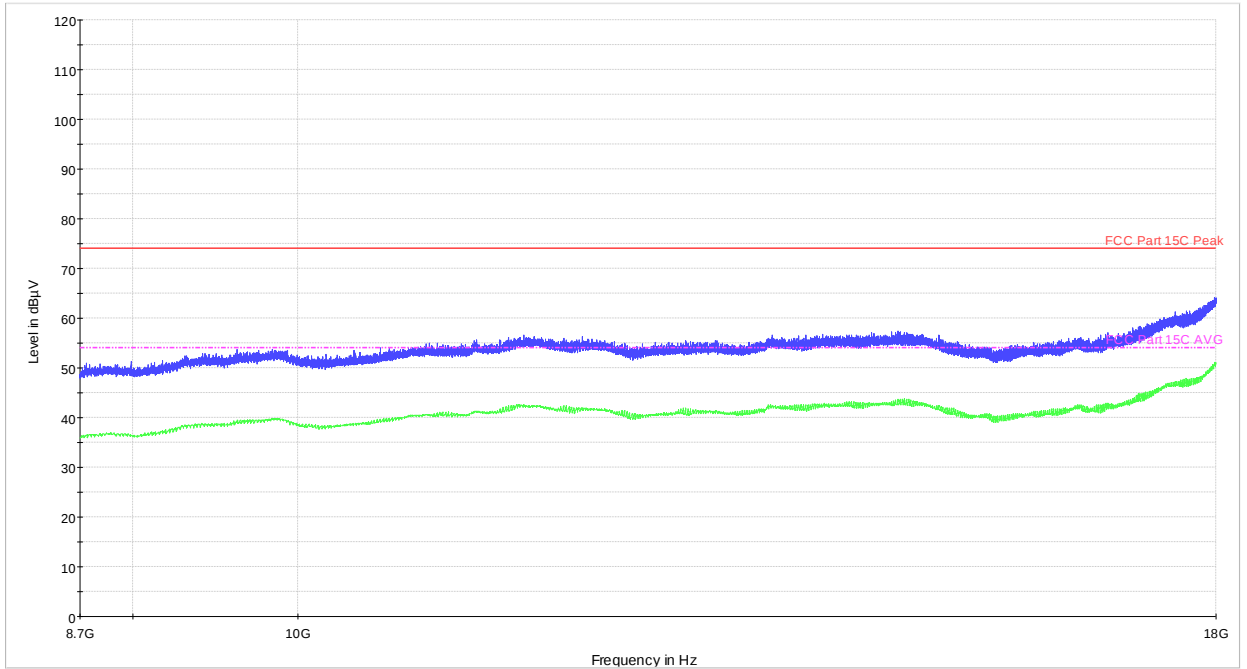
Horizontal polarization

Channel frequency 2440MHz



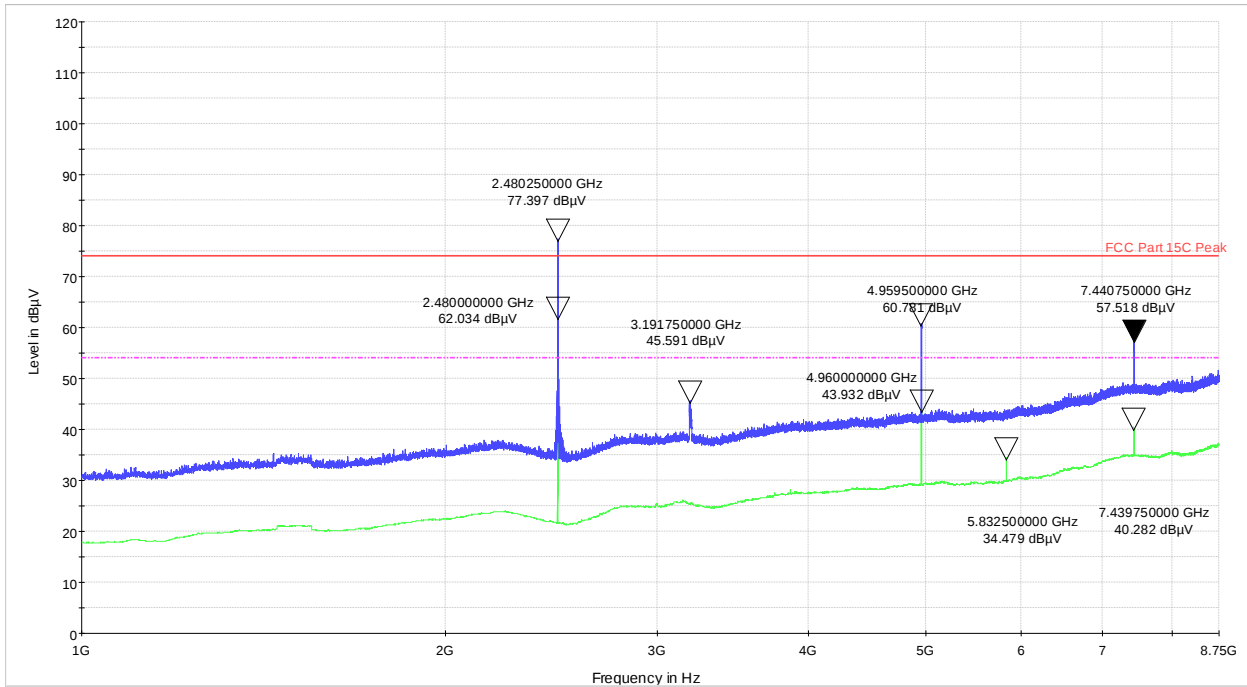
Vertical polarization

Channel frequency 2480MHz



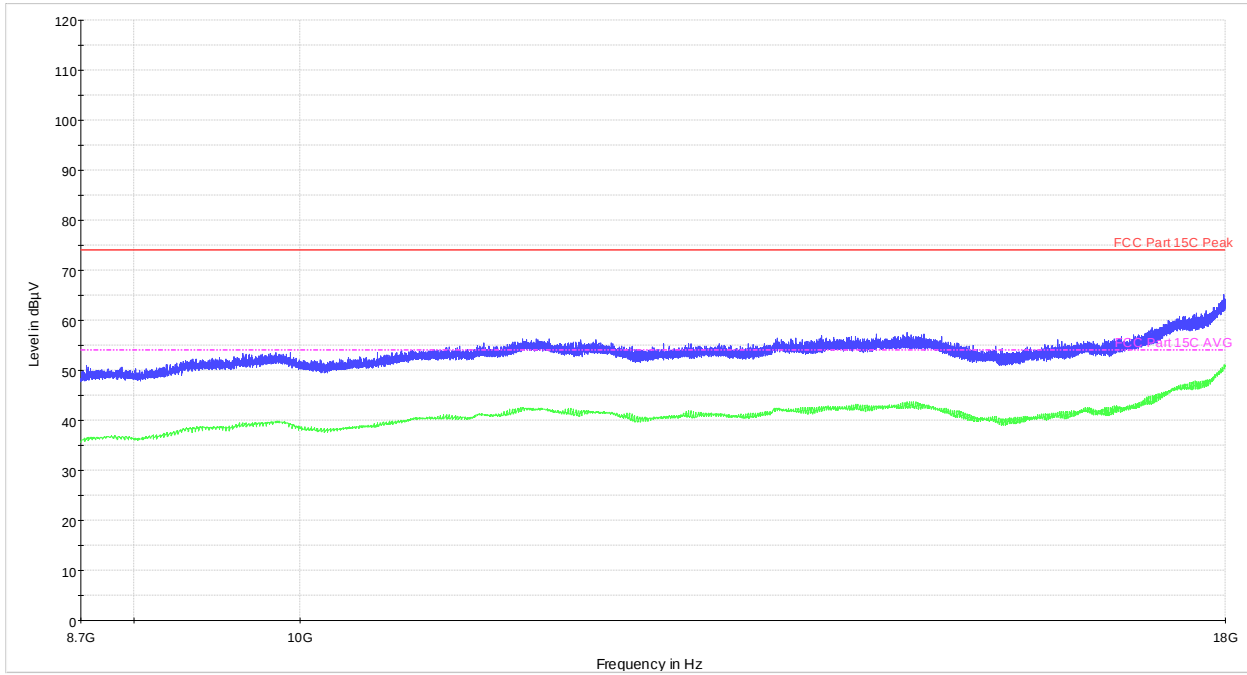
Vertical polarization

Channel frequency 2480MHz



Horizontal polarization

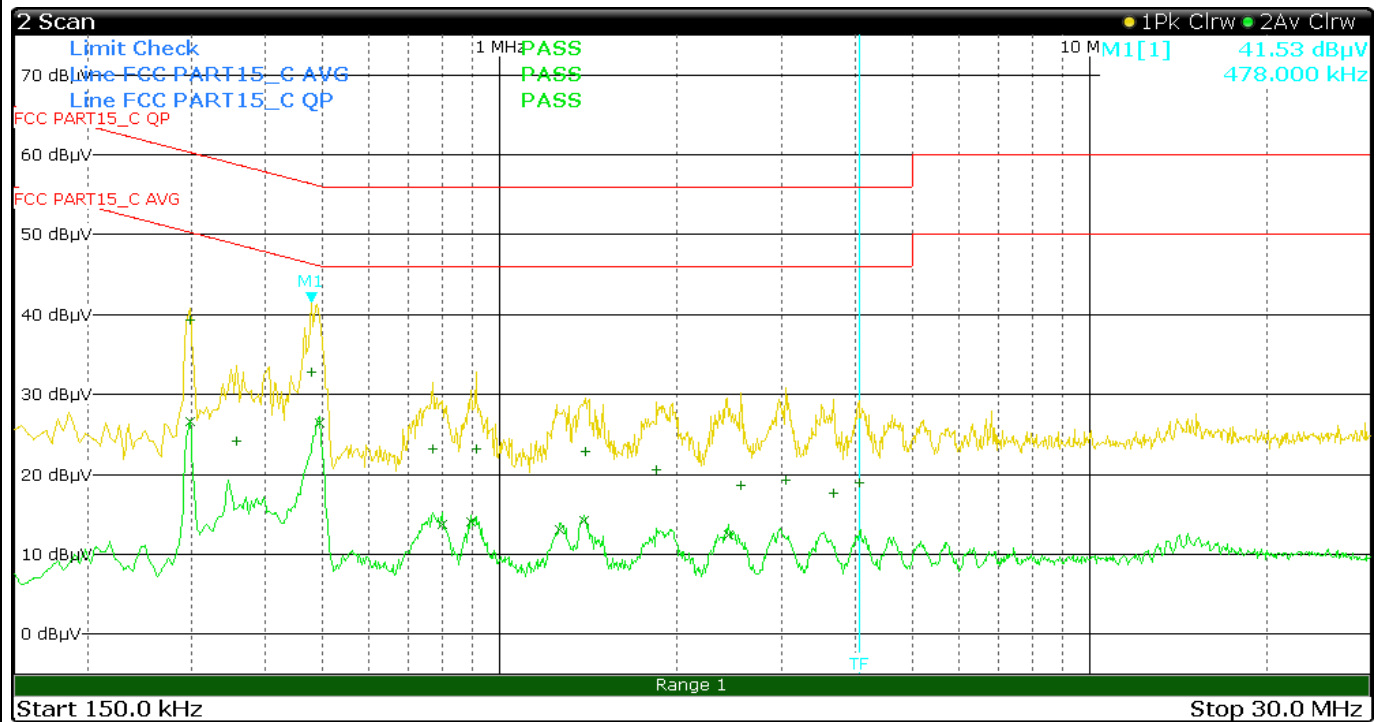
Channel frequency 2480MHz



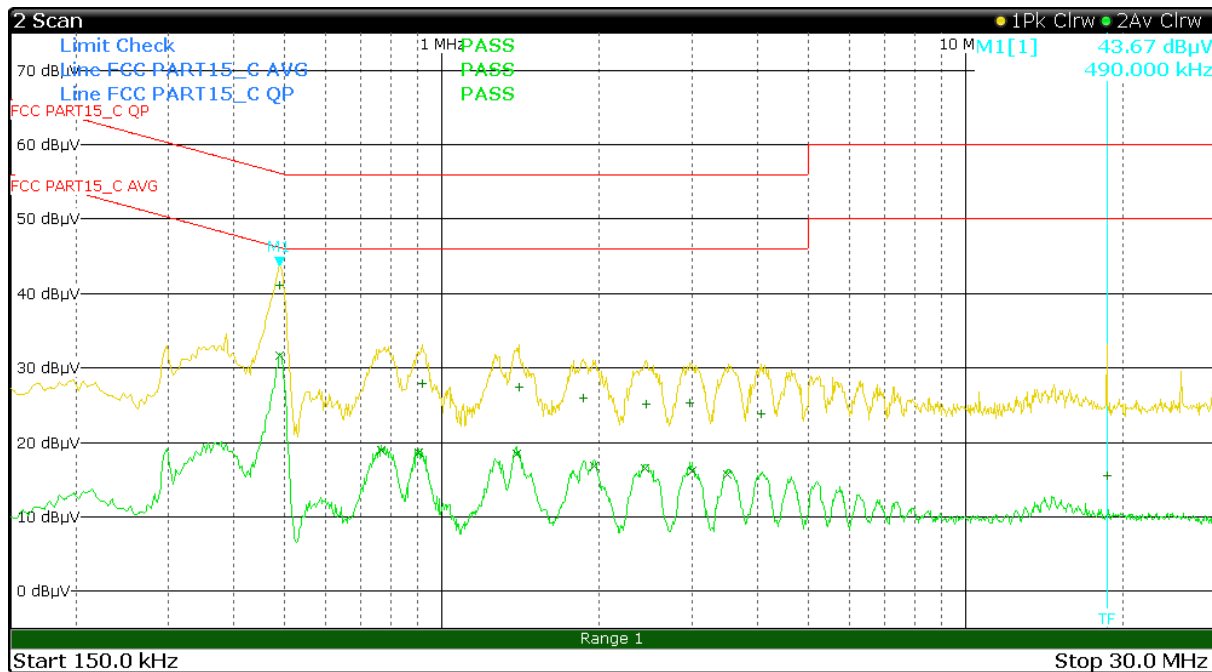
Horizontal polarization

Channel frequency 2480MHz

* Decreases with the logarithm of the frequency

Test plots 9: Conducted spurious emission test on AC power line -Neutral

Table 15: Conducted spurious emission test on AC power line results -Neutral

Trace	Frequency	Level	Delta Limit
2	494000,000000 Hz	26,520000 dBμV	-19,580273 dBμV
1	298000,000000 Hz	39,340000 dBμV	-20,958391 dBμV
1	478000,000000 Hz	32,820000 dBμV	-23,553741 dBμV
2	298000,000000 Hz	26,680000 dBμV	-23,618391 dBμV
2	1390000,000000 Hz	14,250000 dBμV	-31,750000 dBμV
2	894000,000000 Hz	14,050000 dBμV	-31,950000 dBμV
2	798000,000000 Hz	13,800000 dBμV	-32,200000 dBμV
1	910000,000000 Hz	23,180000 dBμV	-32,820000 dBμV
1	770000,000000 Hz	23,180000 dBμV	-32,840000 dBμV
2	1282000,000000 Hz	13,090000 dBμV	-32,910000 dBμV
1	1394000,000000 Hz	22,890000 dBμV	-33,110000 dBμV
2	2442000,000000 Hz	12,440000 dBμV	-33,580000 dBμV
1	358000,000000 Hz	24,160000 dBμV	-34,614773 dBμV
1	1848000,000000 Hz	20,520000 dBμV	-35,480000 dBμV
1	3050000,000000 Hz	19,260000 dBμV	-36,740000 dBμV
1	4068000,000000 Hz	19,000000 dBμV	-37,000000 dBμV
1	2562000,000000 Hz	18,670000 dBμV	-37,330000 dBμV
1	3682000,000000 Hz	17,650000 dBμV	-38,350000 dBμV

Test Graph 1: Line

Table 16: Conducted spurious emission test on AC power line results -Line

Trace	Frequency	Level	Delta Limit
2	490000,000000 Hz	31,690000 dBμV	-14,477800 dBμV
1	490000,000000 Hz	41,080000 dBμV	-15,087800 dBμV
2	768000,000000 Hz	18,900000 dBμV	-27,100000 dBμV
2	902000,000000 Hz	18,560000 dBμV	-27,440000 dBμV
2	1388000,000000 Hz	18,530000 dBμV	-27,470000 dBμV
1	918000,000000 Hz	27,890000 dBμV	-28,110000 dBμV
1	1402000,000000 Hz	27,500000 dBμV	-28,500000 dBμV
2	1958000,000000 Hz	16,820000 dBμV	-29,180000 dBμV
2	2438000,000000 Hz	16,550000 dBμV	-29,450000 dBμV
2	3008000,000000 Hz	16,170000 dBμV	-29,830000 dBμV
1	1868000,000000 Hz	25,980000 dBμV	-30,020000 dBμV
2	3502000,000000 Hz	15,670000 dBμV	-30,330000 dBμV
1	2978000,000000 Hz	25,260000 dBμV	-30,740000 dBμV
1	2454000,000000 Hz	25,180000 dBμV	-30,820000 dBμV
1	4082000,000000 Hz	23,900000 dBμV	-32,100000 dBμV
1	18650000,000000 Hz	15,510000 dBμV	-44,490000 dBμV

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END OF TEST REPORT