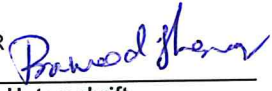


Prüfbericht - Nr.:		ULR-TC568819300000018F 001		Seite 1 von 31 Page 1 of 31	
<i>Test Report No.:</i>					
Auftraggeber: <i>Client:</i>	The Kroger Co. 11450 Grooms Rd. Blue Ash, OH 45242 United States				
Gegenstand der Prüfung: <i>Test item:</i>	CC2530 ZigBee MODULE				
Bezeichnung: <i>Identification:</i>	SRNMRG	Serien-Nr.: <i>Serial No.</i>	Engineering Sample		
Wareneingangs-Nr.: <i>Receipt No.:</i>	166109789	Eingangsdatum: <i>Date of receipt:</i>	20.02.2019		
Prüfort: <i>Testing location:</i>	Refer Page 5 of 31 for Test site details				
Prüfgrundlage: <i>Test specification:</i>	RSS 247 Issue 2 RSS Gen Issue 4 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 Road, Electronic City Phase1, Bangalore – 560 100, India ISED Test Site Registration No.: 3466E				
geprüft / tested by:		kontrolliert / reviewed by:			
15.03.2019	Pramod Sharma R Engineer		17.04.2019	Shrikanth S Naik 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:		On receipt equipment was in good condition. IC: 24718-SZMDLNR1			
Abkürzungen:	P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet	Abbreviations:	P(ass) = passed F(ail) = failed N/A = not applicable 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. 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.					

TEST SUMMARY

Test Item	ISED Clause	Result
Maximum Peak Conducted Output Power	RSS 247 Issue 2 Section 5.4 (d)	Pass
6 dB Bandwidth/DTS Bandwidth	RSS 247 Issue 2, Section 5.2 (a)	Pass
Maximum Power Spectral Density	RSS 247 Issue 2, Section 5.2 (b)	Pass
Emissions in non-restricted frequency bands	RSS 247 Issue 2, Section 5.5	Pass
Spurious Radiated Emissions and Restricted Bands of Operation	RSS-Gen Issue 4, Section 8.9/8.10	Pass
Conducted Emissions on A.C Power Lines	RSS-Gen Issue 4 section 8.8	Pass

Discipline: Electronics Testing
Group: EMC Test Facility

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1 GENERAL REMARKS

1.1 Complimentary Materials

All attachments are integral part of this test report. This applies especially to the following appendix:

- 1: Test Setup Photo
- 2: EUT External Photo
- 3: EUT Internal Photo
- 4: FCC Label and Label Location
- 5: Block Diagram
- 6: Specification of EUT
- 7: Schematic Diagrams
- 8: Bill of Material
- 9: User Manual
- 10: Maximum Permissible Exposure Information

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	Manufacturer	Model Name	Serial Number	Calibration Due Date	Periodicity	Used for Test Items
Spectrum Analyser	Agilent Technologies	E4407B	US41192772	29-03-2019	Yearly	Antenna - Port Measurements
Spectrum Analyser	Rohde & Schwarz	FSV7	101644	29-12-2019	Yearly	
EMI Test Receiver	Rohde & Schwarz	ESW 44	101732	26-05-2019	Yearly	Radiated Spurious Emission
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 mess-elektronik	VUSLP-9111B	9111B-111	17-01-2020	Yearly	
Broadband Horn Antenna	Frankonia	HAX-18	HAX18-802	17-05-2019	Yearly	
Semi Anechoic Chamber	Frankonia	-	-	-	-	AC Power line conducted emission
EMI Receiver	Rohde & Schwarz	ESR7	101133	16-01-2020	Yearly	
LISN	Rohde & Schwarz	ENV 216	100022	18-10-2019	Yearly	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100811	09-08-2019	Yearly	

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

The SRNMRG Module is designed to be use for Zigbee Wireless network applications. The SRNMRG is 2.4GHz ZigBee/802.15.4 Wireless device to be used with Host System to create low power network. The module will be soldered on Host Board and will be powered through Host Board power system. The module will transmit/receive data over the air. Module can communicate with Host CPU using either UART/SPI interface as well through I/O pins.

3.2 Ratings and System Details

Table 2: Ratings and System Details

Operating Frequency Range	2400MHz – 2483.5MHz
No. of Channel	16
Radio Protocol	ZigBee
Supporting Data Rate	250 kbps
Channel Spacing	5 MHz
Modulation	DSSS
Number of antennas	1
Antenna Gain & Type	2 dBi; PCB Inverted F Antenna
Supply Voltage to Product	2.7V – 3.6V
Environmental conditions	Temp: : -30 °C - +75 °C Humidity: 20-80% RHG
Dimensions	Height: 21.72mm Width: 20.96mm

3.3 Measurement Uncertainty:

Table 3: 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
All emissions, radiated	±6 dB
Temperature	±3 °C
Supply Voltages	±3 %
Time	±5 %

Note: The test results reported in this test report are exclusive of maximum uncertainty value, measured test results are in compliant with the test limit even if the maximum uncertainty value is taken into account.

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

Test software was used to configure the EUT.

4.3 Special Accessories and Auxiliary Equipment

- None

4.4 Countermeasures to achieve EMC Compliance

- None

4.5 Test modes – data rates and modulations

For the antenna port measurement and Radiated spurious emissions, the tests were performed for 250kBps data rate and results are reported in this report.

4.6 List of frequencies

Table 4: List of Center Frequencies

Frequency Band	Channel No.	Frequency (MHz)
2400 - 2483.5 MHz	11	2405
	12	2410
	13	2415
	14	2420
	15	2425
	16	2430
	17	2435
	18	2440
	19	2445
	20	2450
	21	2455
	22	2460
	23	2465
	24	2470
	25	2480

Note: Test Performed with default power setting of 4.5dBm
TUV Sample Identification number : A000886308-001 (Conducted measurement)
A000886308-002 (Radiated measurement)

5 TEST METHODOLOGY

5.1 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.

5.1.1 Test Setup Configuration

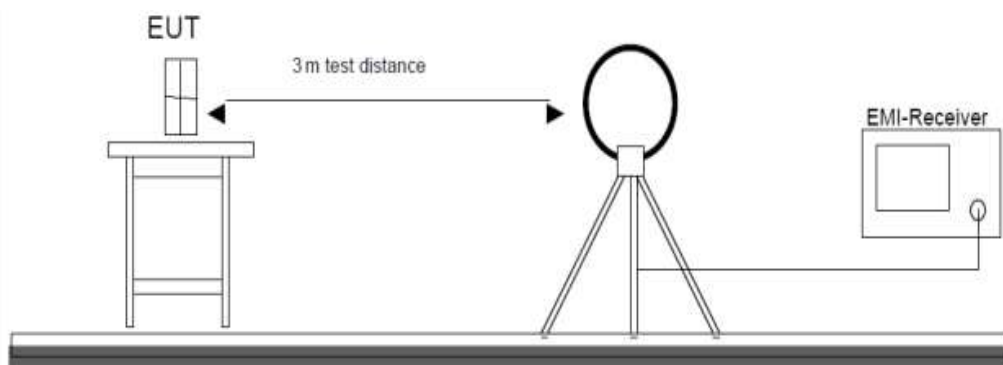


Figure 1: Frequency Range 9 kHz- 30 MHz

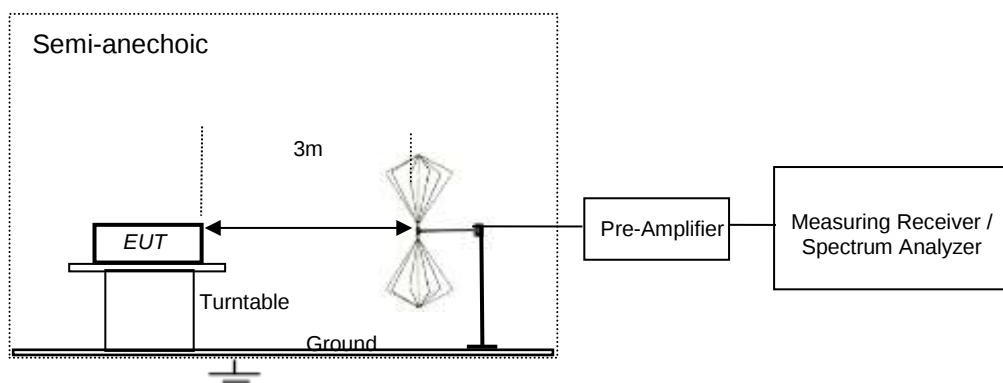


Figure 2: Frequency Range 30 MHz – 200 MHz

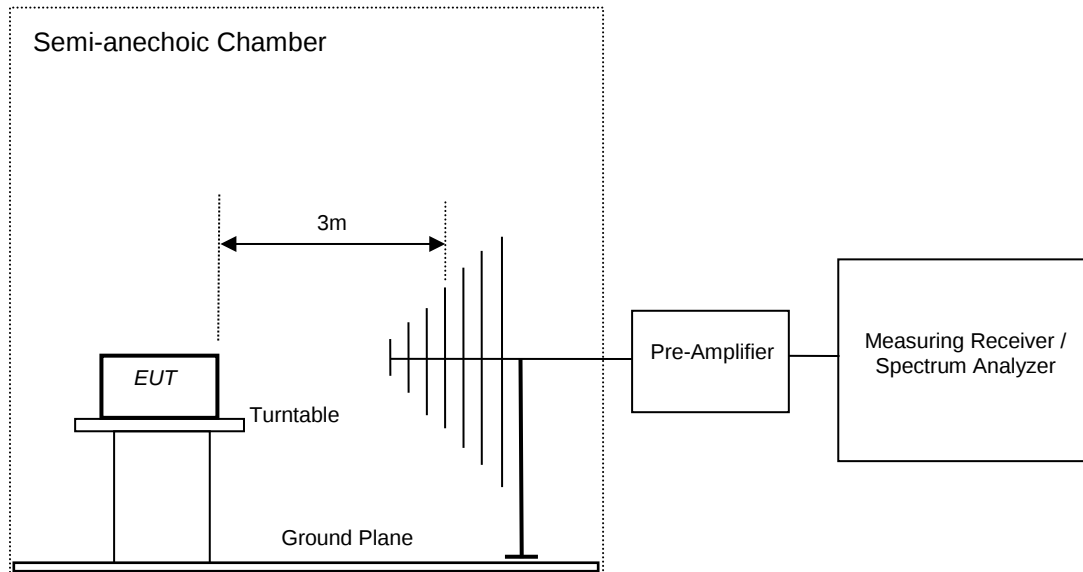


Figure 3: Frequency Range 200 MHz - 1GHz

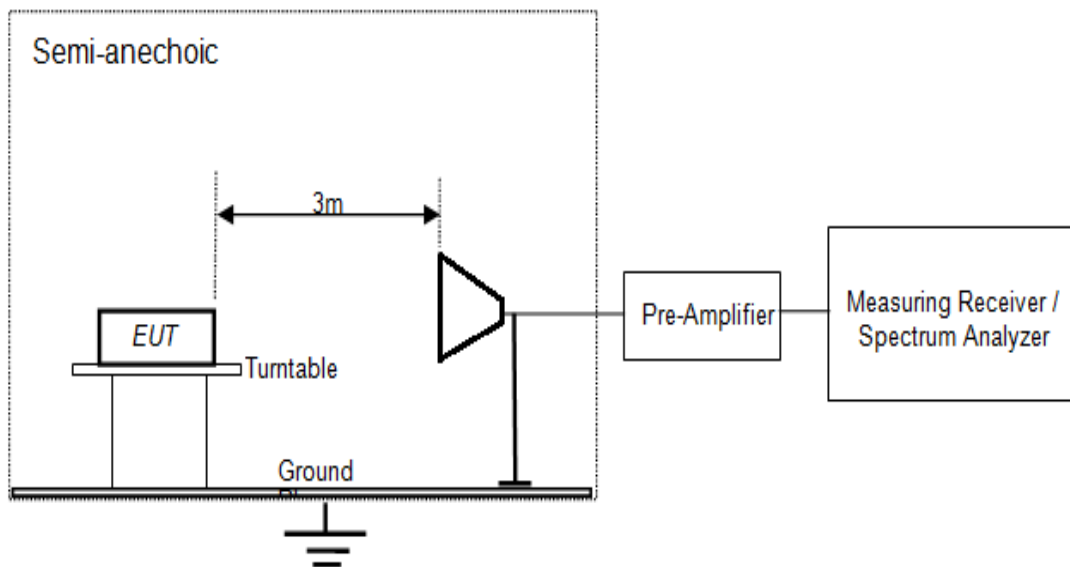


Figure 4: Frequency Range above 1 GHz

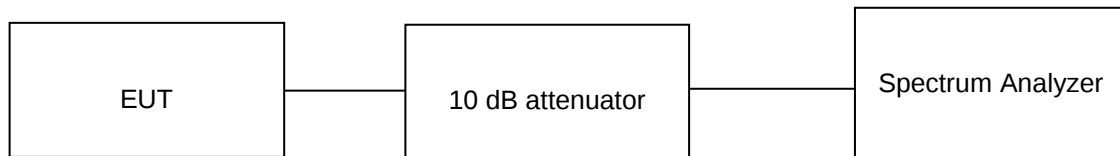
6 TEST RESULTS

6.1 Maximum Peak Conducted Output Power

Result

Pass

Test Specification	RSS 247 Issue 2, Section 5.4 (d)
Measurement Bandwidth	1 MHz
Detector	Peak
Requirement	≤ 1 W (30 dBm)



Test results:

Note:

Measurements were made as per section 8.3 in 558074 D01 15.247 Measurement Guidance v05.

10 dB attenuator + 0.8 dB Cable loss = 10.8 dB offset is considered in below results

Table 5: Maximum peak conducted output power verified Test Results

Channel Frequency (MHz)	Maximum Peak Conducted output Power (dBm)	Limit (dBm)
2405	-0.01	30
2440	-0.31	30
2480	-0.71	30

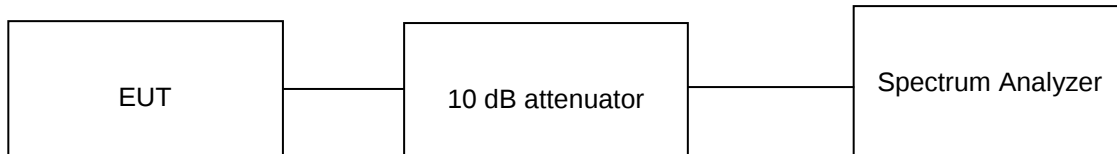
6.2 Maximum Power Spectral Density

Result

Pass

Test Specification	RSS 247 Issue 2, Section 5.2 (b)
Detector Function	Peak
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 Method:



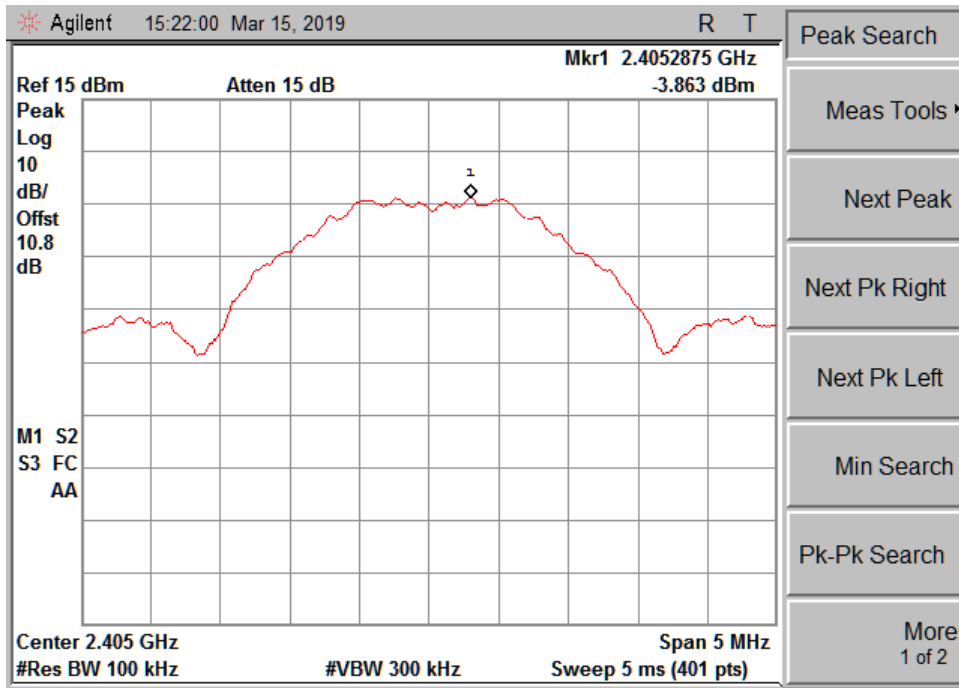
Test results:

Measurements were made as per section 8.4 in 558074 D01 15.247 Measurement Guidance v05.

10.3 dB attenuator + 0.5 dB Cable loss = 10.8 dB offset is considered in below results

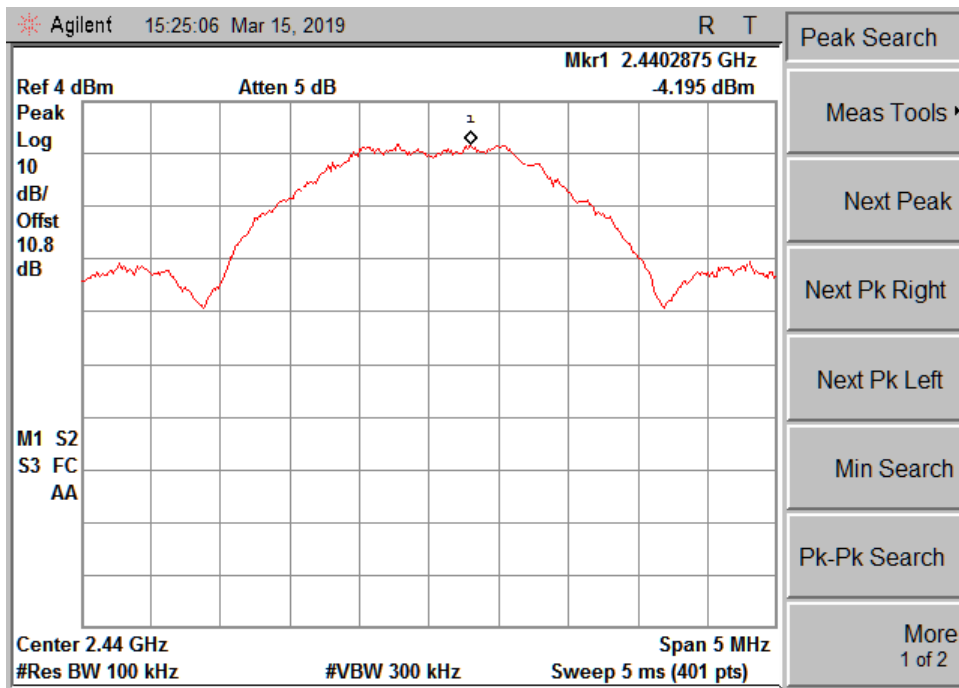
Table 6: Maximum power spectral density verified Test Results

Channel Frequency (MHz)	PSD (dBm/kHz)		Limit (dBm/3kHz)
	For 3kHz	For 100kHz	
2405	-16.2	-3.86	8
2440	-16.49	-4.19	8
2480	-16.88	-4.02	8



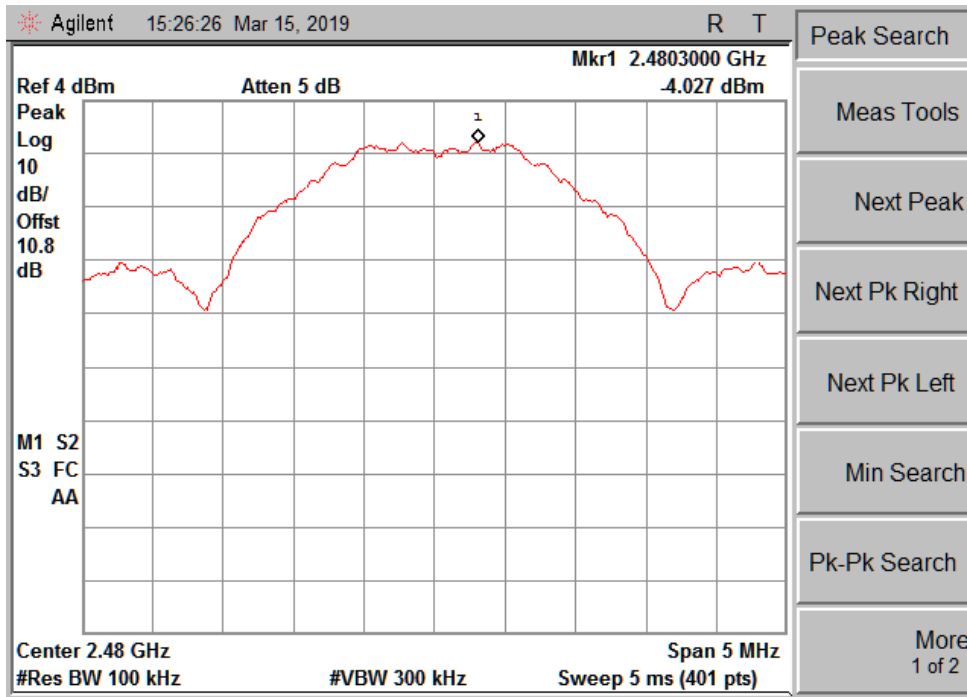
Channel Frequency : 2405MHz

PSD at 100kHz



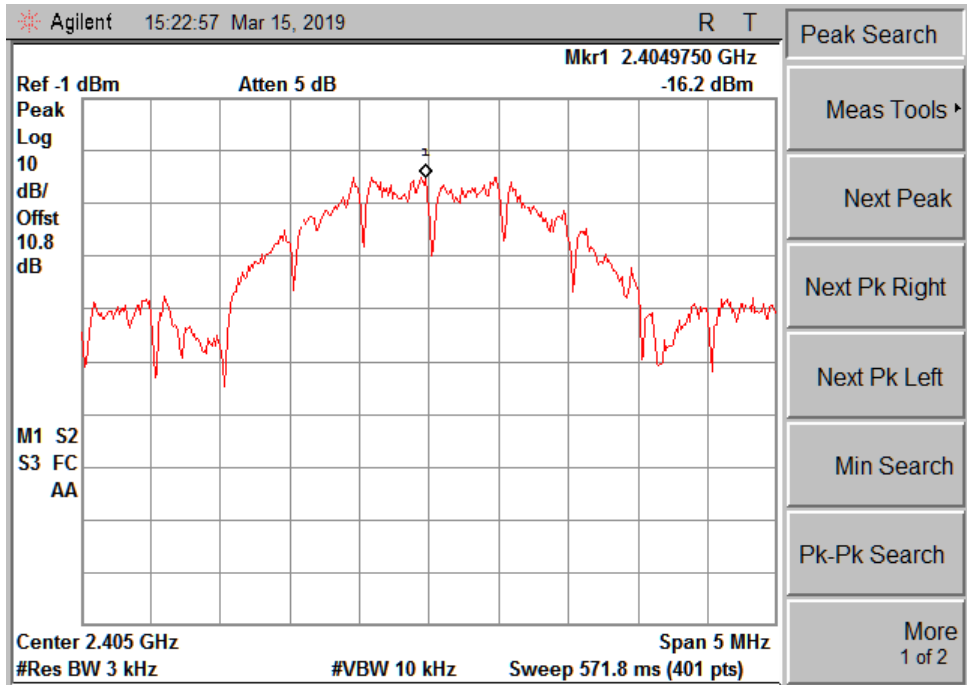
Channel Frequency : 2440MHz

PSD at 100kHz



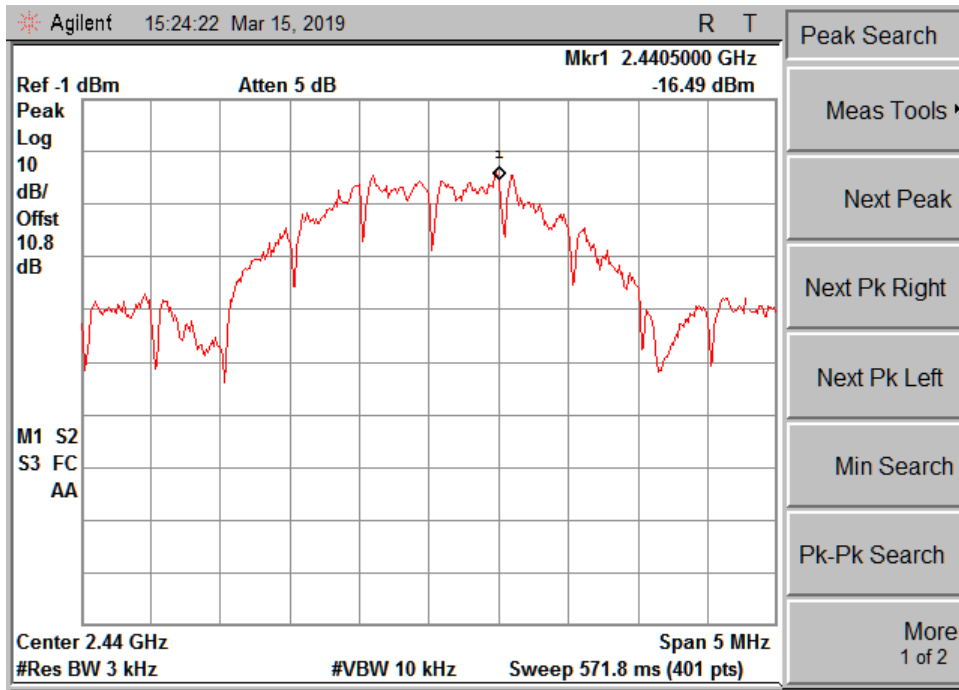
Channel Frequency : 2480MHz

PSD at 100kHz



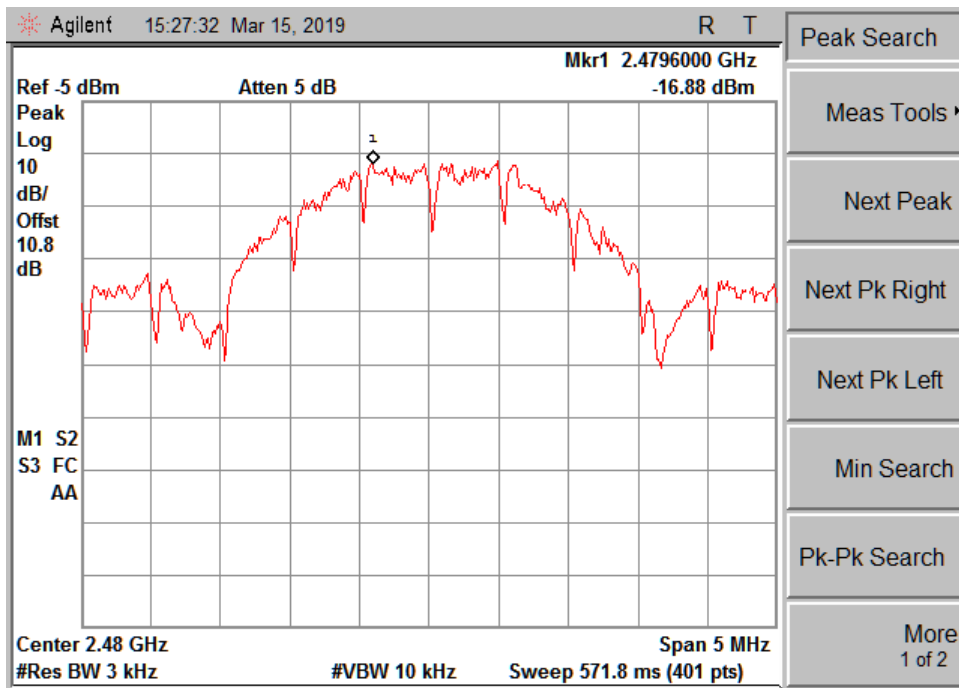
Channel Frequency : 2405MHz

PSD at 3kHz



Channel Frequency : 2440MHz

PSD at 3kHz



Channel Frequency : 2480MHz

PSD at 3kHz

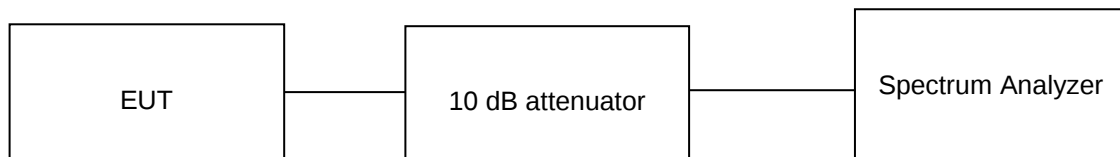
6.3 DTS Bandwidth

Result

Pass

Test Specification	RSS 247 Issue 2, Section 5.2 (a)
Detector	Peak
Port of testing	Antenna Port
Requirement	The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Method:



Test results:

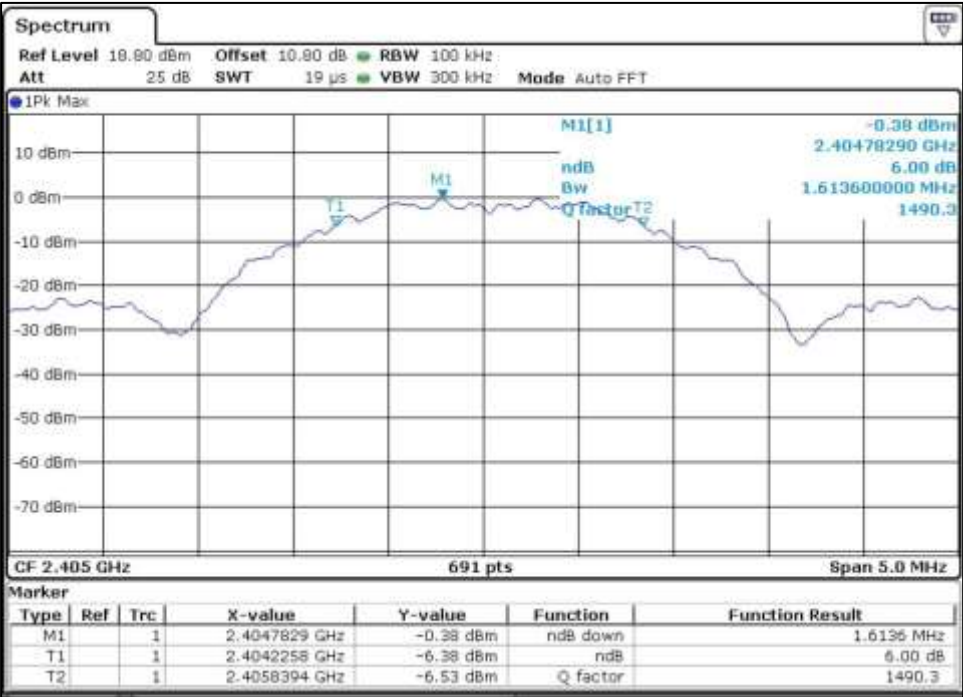
Note:

Measurements were made as per section 8.2 in 558074 D01 15.247 Measurement Guidance v05.

10.3 dB attenuator + 0.5 dB Cable loss = 10.8 dB offset is considered in below result

Table 7: DTS Bandwidth verified Test Results

Channel Frequency (MHz)	6dB Bandwidth (MHz)	99% OBW (MHz)
2405	1.61	2.58
2440	1.60	2.58
2480	1.61	2.57



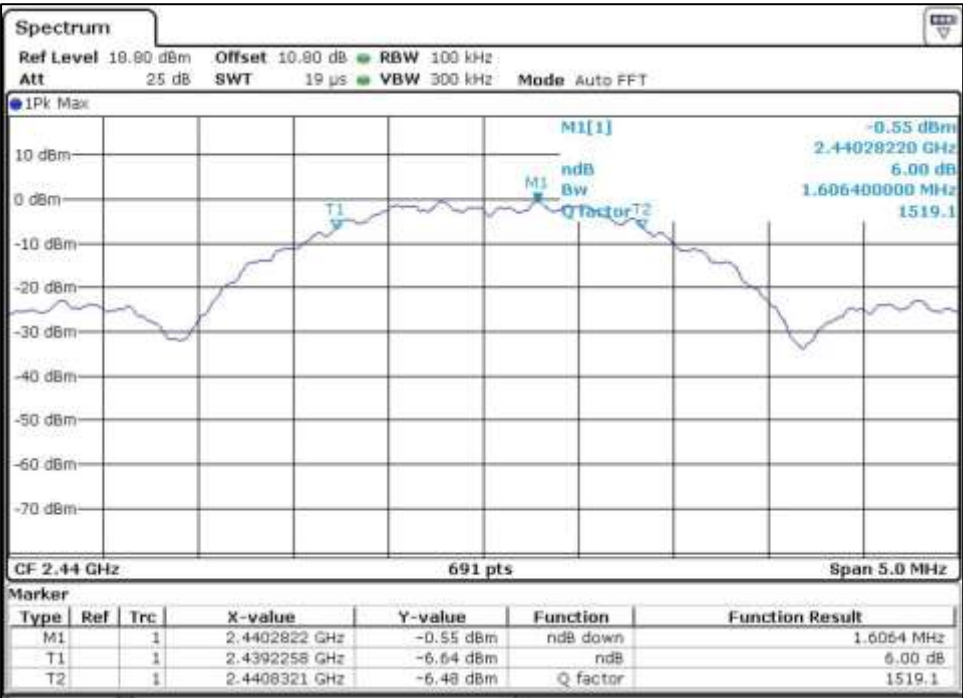
Channel Frequency: 2405MHz

6dB Bandwidth



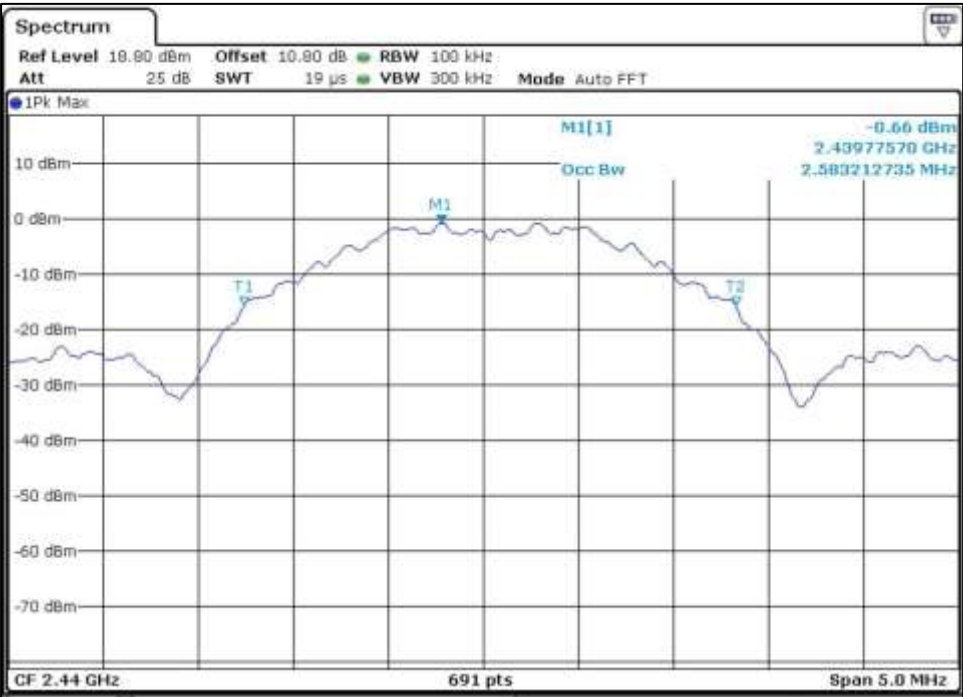
Channel Frequency: 2405MHz

99% OBW



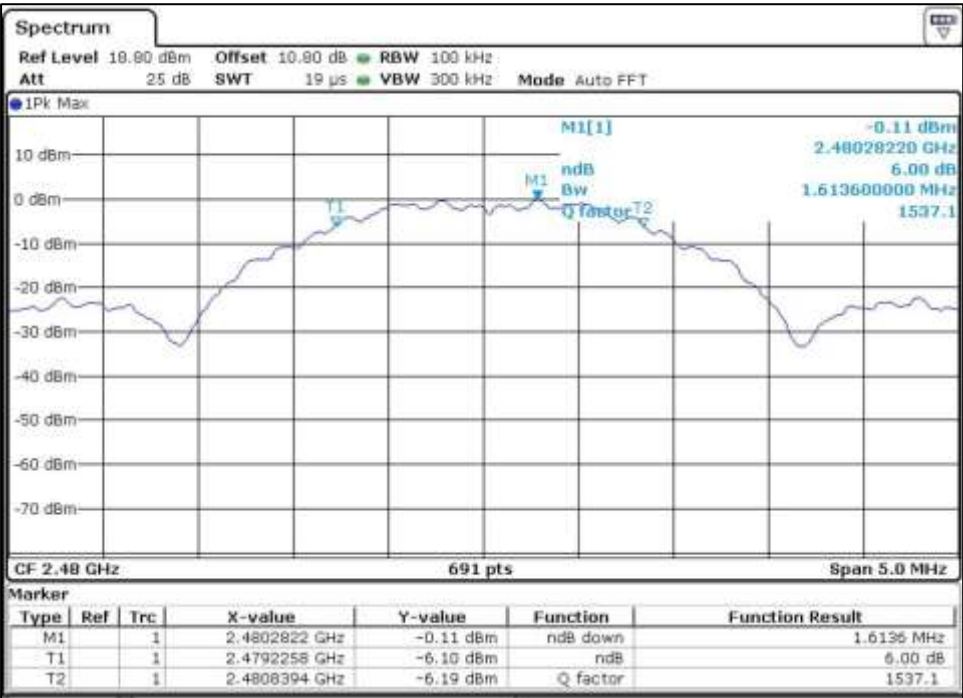
Channel Frequency: 2440MHz

6dB Bandwidth



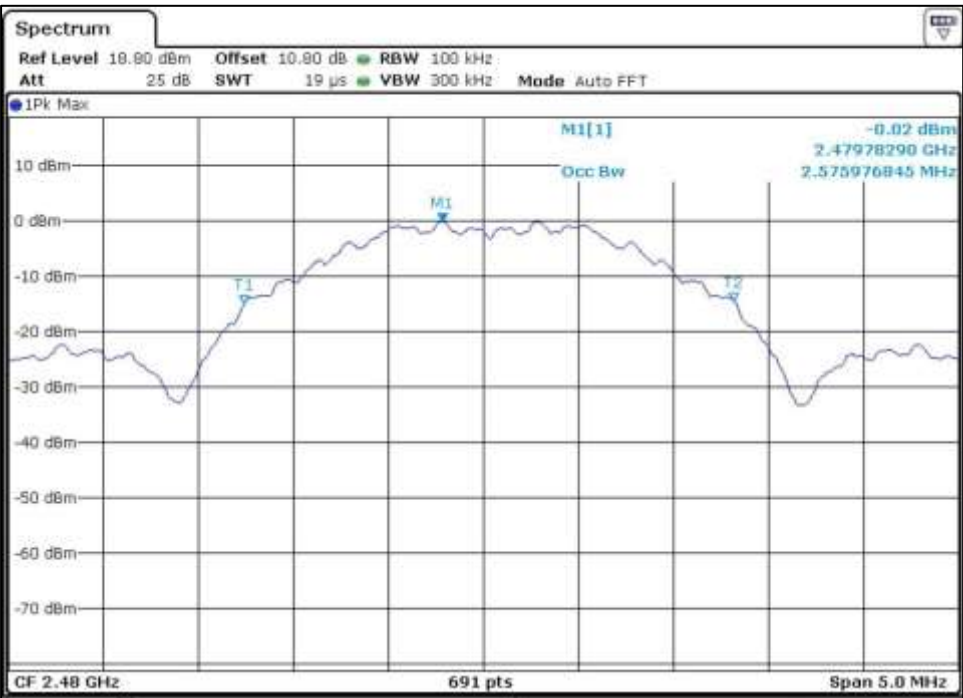
Channel Frequency: 2440MHz

99% OBW



Channel Frequency: 2480MHz

6dB Bandwidth



Channel Frequency: 2480MHz

99% OBW

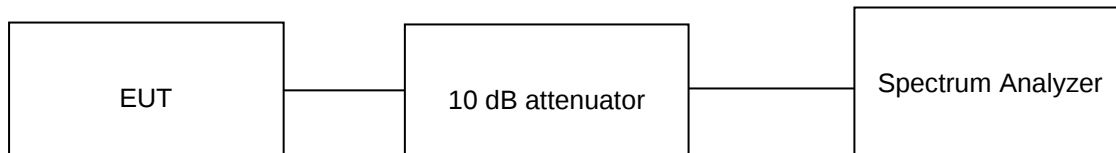
6.4 Emissions in non-restricted frequency bands and Conducted spurious Emission

Result

Pass

Test Specification	RSS 247 Issue 2, Section 5.5
Detector Function	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 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 Method:



Test results:

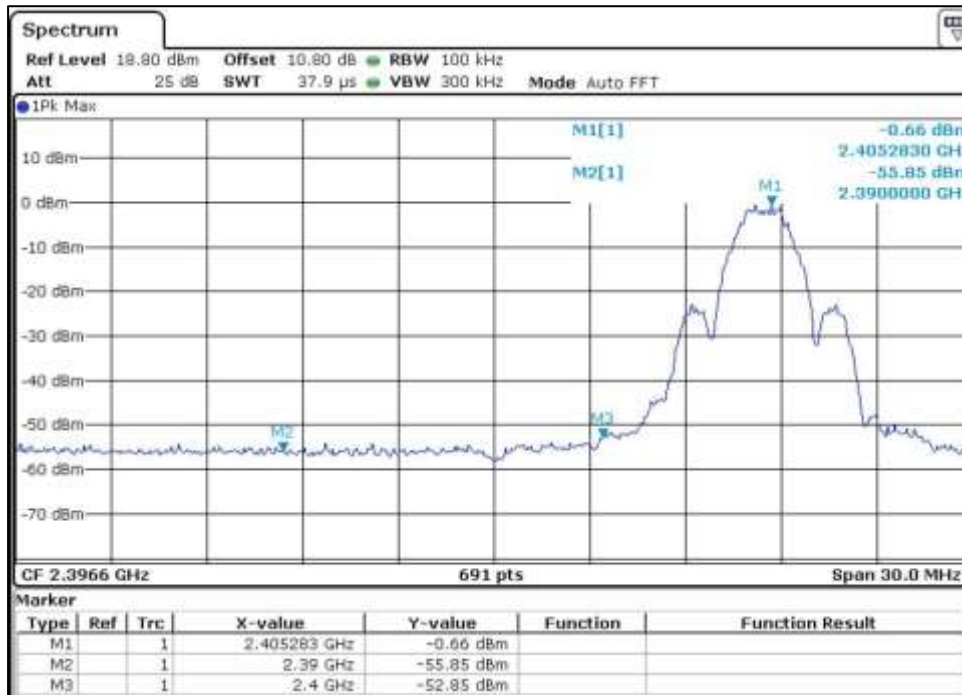
Note:

Measurements were made as per section 8.5 in 558074 D01 15.247 Measurement Guidance v05.

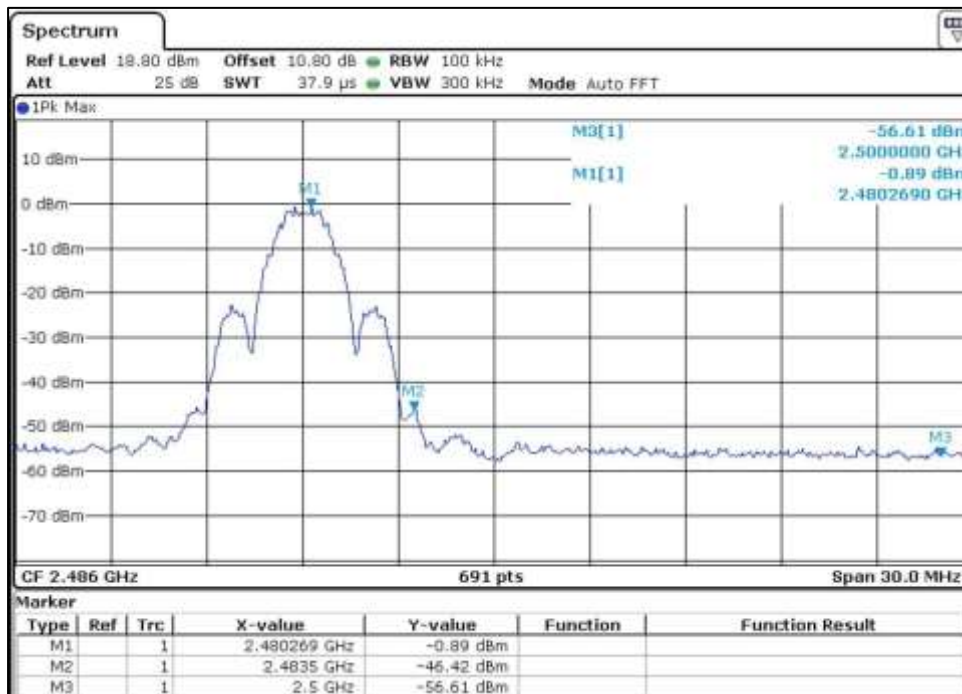
10.3 dB attenuator + 0.5 dB Cable loss = 10.5 dB offset is considered in below result

Table 8: Verified Test Results of Emissions in non-restricted frequency bands

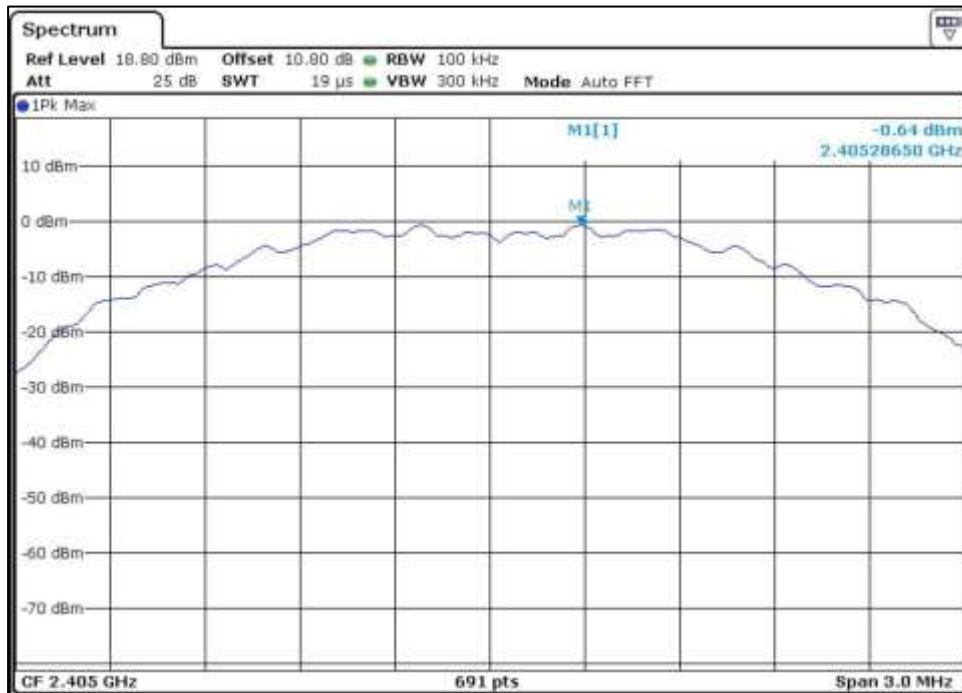
Channel Frequency (MHz)	Value at Band Edge		Reference Value B (dBm)	Band Edge Value A-B (dBc)	Limit (dBc)
	Frequency (MHz)	Value A (dBm)			
2405	2400	-52.85	-0.64	-52.21	20
2480	2483.5	-46.42	-0.62	-45.80	20



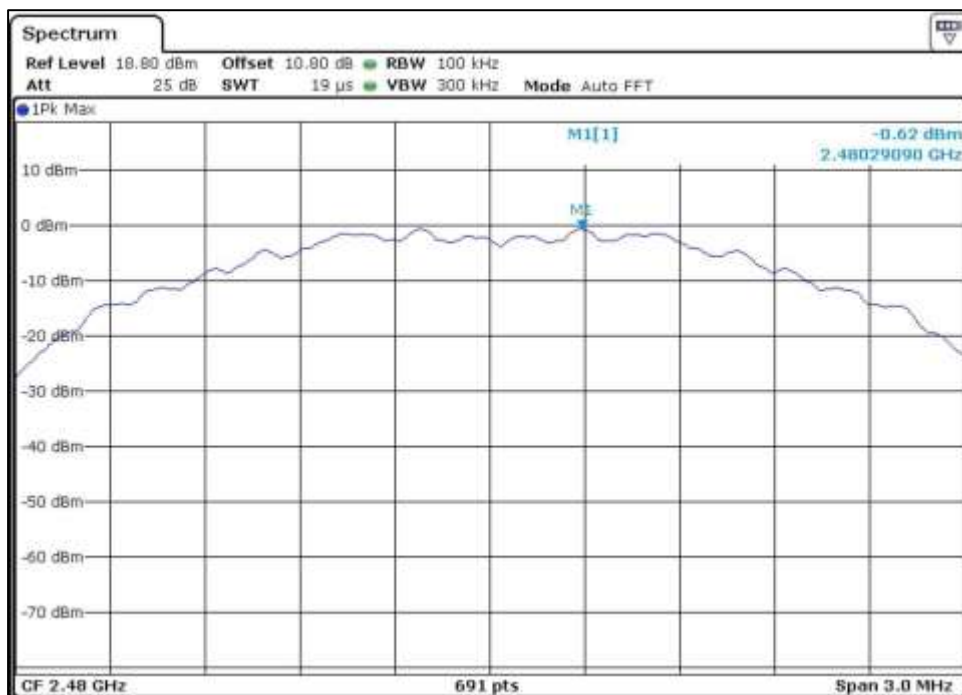
Channel Frequency: 2405MHz



Channel Frequency: 2480MHz

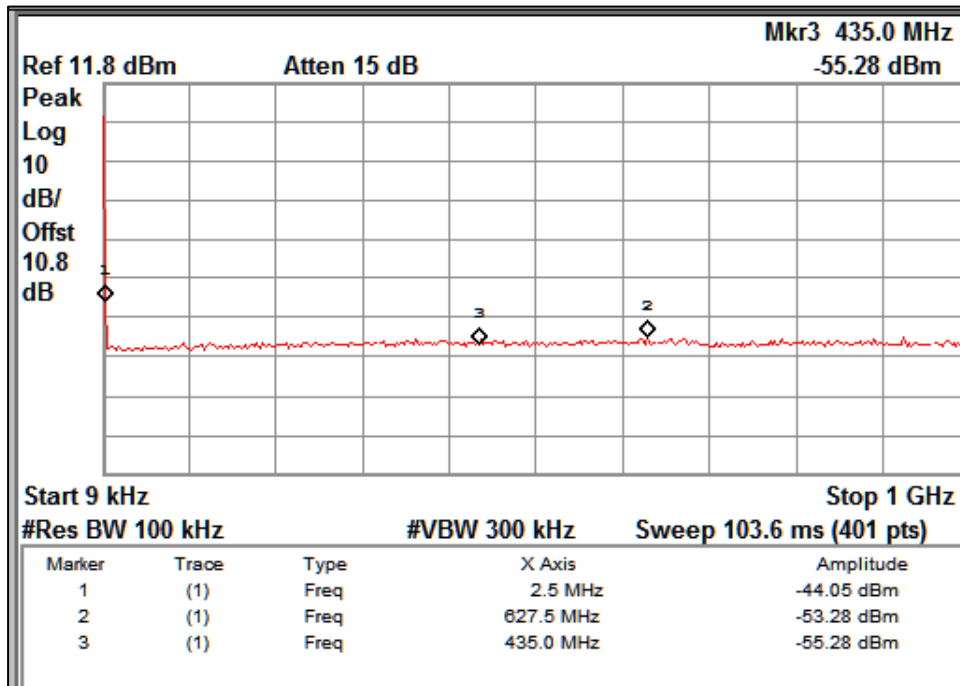


Reference Level Plot 1

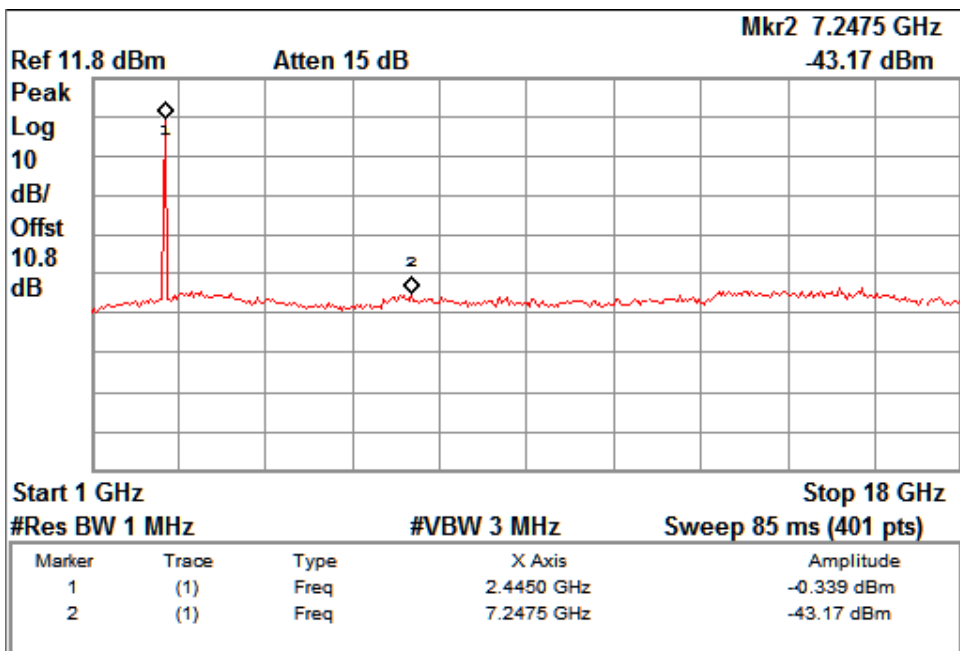


Reference Level Plot 2

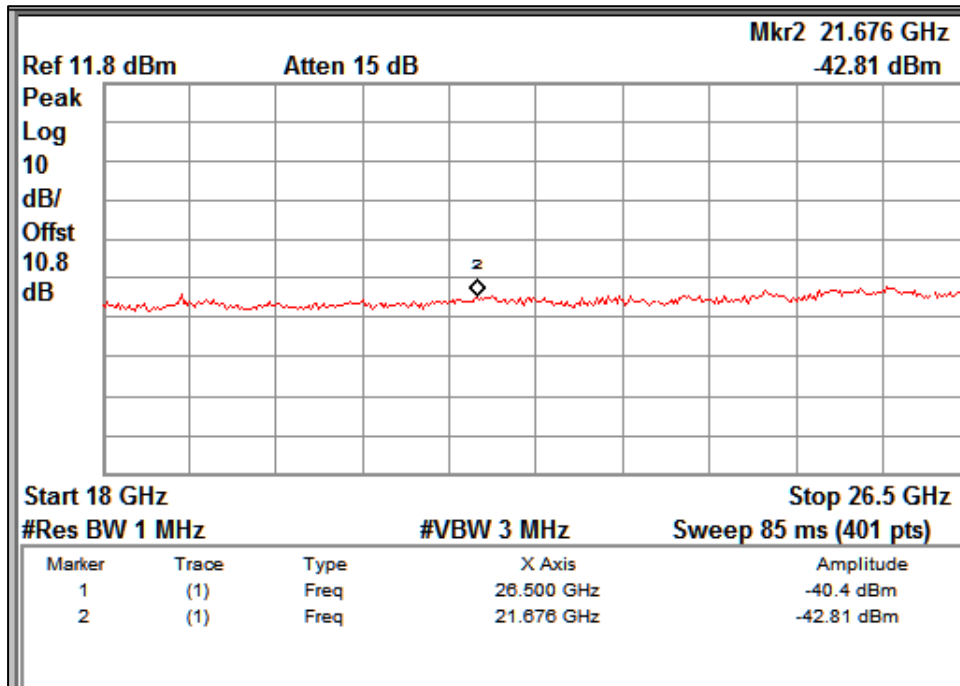
Test results: Conducted spurious emission test



Frequency range: 9kHz – 1GHz



Frequency range: 1GHz – 18GHz



Frequency range: 18GHz - 26.5GHz

6.5 Spurious Radiated Emissions & Restricted Bands of Operation

Result

Pass

Test Specification	RSS-Gen Issue 4, Section 8.9/8.10
Test Method	ANSI C 63.10 - 2013
Measurement Location	Semi Anechoic Chamber
Measuring Distance	3 m
Detector	QP for frequency below 1 GHz, average for frequency above 1 GHz
Requirement	As per the limits mentioned in the below table

Table 9: Transmitter limits for Radiated emission

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	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 $\text{dB}\mu\text{V/m}$ 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: 2.7V – 3.6V

Environmental conditions:

Temperature: +23.5 °C RH: 54 %

Test results:

No emissions found in frequency range 9 kHz to 1 GHz.

Test results for frequencies in the range 1 GHz - 26.5 GHz

Table 10: Spurious Radiated Emissions & Restricted Bands of Operation Test Results

Channel Frequency (MHz)	Frequency (MHz)	Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2405	2405(Pk)	Vertical	70.52	*	-
	2405(Av)		66.76	*	-
	2390(Pk)		28.18	74	-45.82
	2390(Av)		14.83	54	-39.17
	4810(Pk)		38.39	74	-35.61
	4810(Av)		26.20	54	-27.80
	9620(Pk)		46.70	74	-27.30
	9620(Av)		34.19	54	-19.81
	2405(Pk)	Horizontal	85.37	*	-
	2405(Av)		81.61	*	-
	2390(Pk)		29.55	74	-44.45
	2390(Av)		17.13	54	-36.87
	4810(Pk)		39.57	74	-34.43
	4810(Av)		31.73	54	-22.27
	9620(Pk)		47.05	74	-26.95
	9620(Av)		35.66	54	-18.34
2440	2440(Pk)	Vertical	68.96	*	-
	2440(Av)		65.49	*	-
	4880(Pk)		38.38	74	-35.62
	4880(Av)		26.55	54	-27.45
	7320(Pk)		43.54	74	-30.46
	7320(Av)		32.29	54	-21.71
	9760(Pk)		47.59	74	-26.41
	9760(Av)		34.26	54	-19.74
	2440(Pk)	Horizontal	86.78	*	-
	2440(Av)		83.26	*	-
	4880(Pk)		40.10	74	-33.90
	4880(Av)		31.91	54	-22.09
	7320(Pk)		48.01	74	-25.99
	7320(Av)		39.00	54	-15.00
	9760(Pk)		46.59	74	-27.41
	9760(Av)		33.31	54	-20.69

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Channel Frequency (MHz)	Frequency (MHz)	Polarization	Emission (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2480	2483.5(Pk)	Vertical	31.35	74	-42.65
	2483.5(Av)		20.19	54	-33.81
	2480(Pk)		70.62	*	-
	2480(Av)		67.02	*	-
	4960(Pk)		39.43	74	-34.57
	4960(Av)		26.75	54	-27.25
	7440(Pk)		45.09	74	-28.91
	7440(Av)		33.01	54	-20.99
	9920(Pk)		46.3	74	-27.70
	9920(Av)		33.3	54	-20.70
	2483.5(Pk)	Horizontal	44.06	74	-29.94
	2483.5(Av)		34.00	54	-20.00
	2480(Pk)		85.87	*	-
	2480(Av)		82.42	*	-
	4960(Pk)		39.62	74	-34.38
	4960(Av)		32.01	54	-21.99
	7440(Pk)		48.94	74	-25.06
	7440(Av)		39.18	54	-14.82
	9920(Pk)		46.82	74	-27.18
	9920(Av)		33.88	54	-20.12

6.6 Conducted Spurious Emission Test on AC Power Line

Result

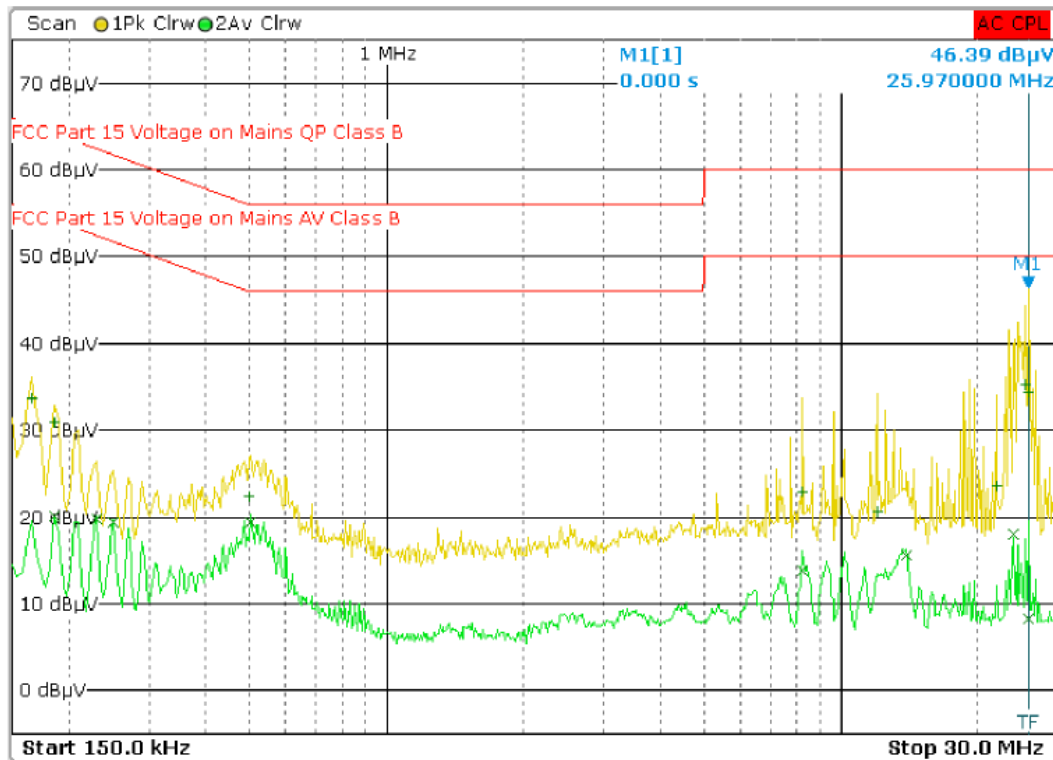
Pass

Test Specification : RSS-Gen Issue 4 section 8.8
Test Method : ANSI C63.10-2013
Testing Location : Screened room
Measurement Bandwidth : 9kHz
Frequency Range : 150kHz – 30MHz
Supply Voltage : 110VAC,60Hz

Limits: RSS-Gen Issue 4 section 8.8

Frequency of emission (MHz)	QP Limit (dB μ V)	AV Limit (dB μ V/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



Line: Graph

Scan Table

Scan Start 150.00000000 kHz
Scan Stop 30.00000000 MHz
Scan Type LIN
Transducer ENV216-Line
Detector Trace 1: Max Peak Trace 2: Average

Start Frequency	Stop Frequency	Step Size	RBW	Meas Time	RF Atten	Preampl	Input
150.000 kHz	30.000 MHz	4.000 kHz	9.0 kHz	20.0 ms	10.0 dB	30.0 dB	INPUT1

Final Results

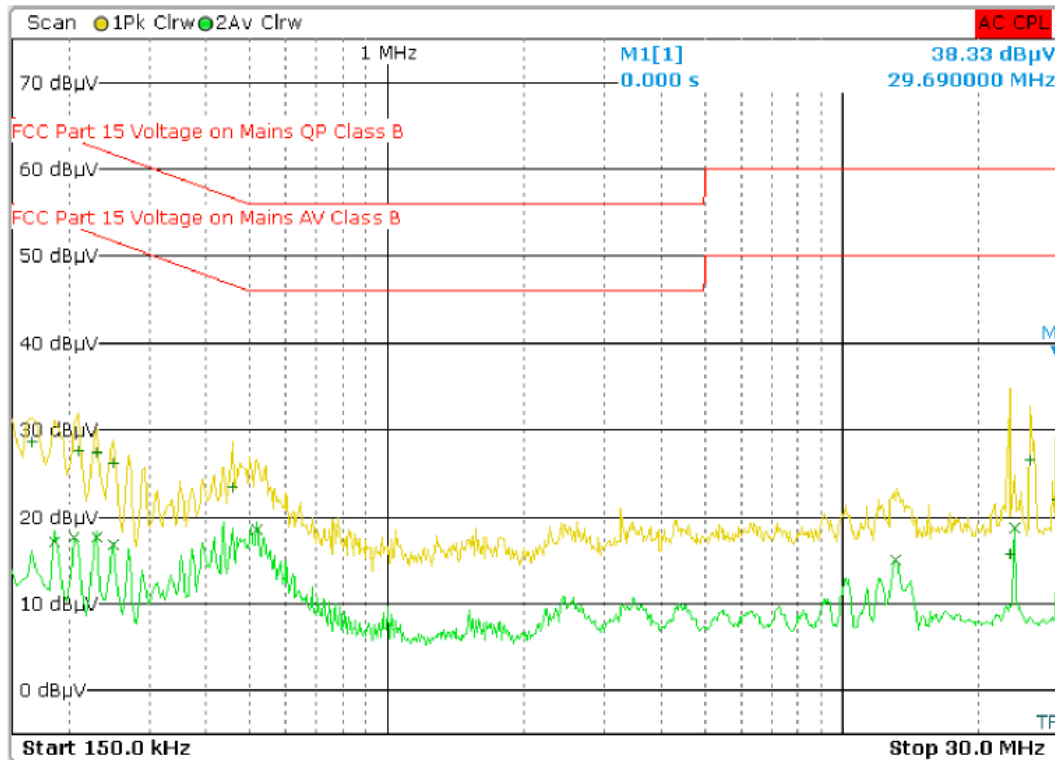
Meas Time 1.0 s
Margin 6.0 dB
Peaks 25

Trace	Frequency	Level (dBμV)	Phase	Detector	Delta Limit/dB
1	25.462000000 MHz	35.26		Quasi Peak	-24.74
1	25.970000000 MHz	34.44		Quasi Peak	-25.56
2	502.000000000 kHz	19.35		Average	-26.65
1	166.000000000 kHz	33.65		Quasi Peak	-31.51
2	24.026000000 MHz	17.96		Average	-32.04
2	250.000000000 kHz	19.43		Average	-32.33
2	230.000000000 kHz	19.77		Average	-32.68
1	186.000000000 kHz	30.84		Quasi Peak	-33.37
1	498.000000000 kHz	22.42		Quasi Peak	-33.61
2	186.000000000 kHz	20.06		Average	-34.15
2	13.910000000 MHz	15.59		Average	-34.41
2	8.254000000 MHz	13.77		Average	-36.23
1	22.038000000 MHz	23.55		Quasi Peak	-36.45
1	8.254000000 MHz	22.80		Quasi Peak	-37.20
1	12.074000000 MHz	20.70		Quasi Peak	-39.30
2	25.970000000 MHz	8.28		Average	-41.72

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Neutral: Graph

Scan Table

Scan Start 150.00000000 kHz
Scan Stop 30.00000000 MHz
Scan Type LIN
Transducer ENV216-Neutral
Detector Trace 1: Max Peak Trace 2: Average

Start Frequency	Stop Frequency	Step Size	RBW	Meas Time	RF Atten	Preamp	Input
150.000 kHz	30.000 MHz	4.000 kHz	9.0 kHz	20.0 ms	10.0 dB	30.0 dB	INPUT1

Final Results

Meas Time 1.0 s
Margin 6.0 dB
Peaks 25

Trace	Frequency	Level (dBμV)	Phase	Detector	Delta Limit/dB
2	518.000000000 kHz	18.52		Average	-27.48
2	24.026000000 MHz	18.68		Average	-31.32
1	458.000000000 kHz	23.49		Quasi Peak	-33.24
1	25.858000000 MHz	26.50		Quasi Peak	-33.50
2	230.000000000 kHz	17.64		Average	-34.81
2	250.000000000 kHz	16.82		Average	-34.94
1	230.000000000 kHz	27.46		Quasi Peak	-34.99
2	13.142000000 MHz	15.01		Average	-34.99
1	210.000000000 kHz	27.60		Quasi Peak	-35.61
1	250.000000000 kHz	26.12		Quasi Peak	-35.64
2	206.000000000 kHz	17.70		Average	-35.67
1	166.000000000 kHz	28.64		Quasi Peak	-36.52
2	186.000000000 kHz	17.18		Average	-37.03
1	29.690000000 MHz	22.06		Quasi Peak	-37.94
1	23.518000000 MHz	15.81		Quasi Peak	-44.19

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