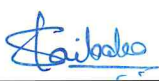


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<i>Test Report No.:</i>		<i>Page 1 of 36</i>			
Auftraggeber: <i>Client:</i>		CYPRESS SEMICONDUCTOR CORPORATION 198 CHAMPION COURT SAN JOSE, CA 95134 U.S.A.			
Gegenstand der Prüfung: <i>Test item:</i>		CY8CKIT-062-BLE PSoc 6 BLE Pioneer Kit			
Bezeichnung: <i>Identification:</i>		CY8CKIT-062-BLE	Serien-Nr.: <i>Serial No.</i>	Engineering Sample	
Wareneingangs-Nr.: <i>Receipt No.:</i>		1803284176	Eingangsdatum: <i>Date of receipt:</i>	20-07-2017	
Prüfart: <i>Testing location:</i>		Refer Page 5 of 36 for Test site details			
Prüfgrundlage: <i>Test specification:</i>		FCC Part 15: Subpart C - 15.247 & RSS 247 Issue 2 ANSI C63.10-2013			
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test items passed the test specification(s).</i>			
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland (India) Pvt. Ltd. 82/A, 3rd Main, West Wing, Electronic City Phase 1 Hosur Road, Bangalore – 560 100. India FCC Test Site Registration no.: 496599 & ISSED Test Site Number.: 3466E-1			
geprüft / tested by:			kontrolliert / reviewed by:		
03.01.2018	Raghavendra Katti Engineer		07.03.2018	Saibaba Siddapur 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:WAP-CY8CKIT-062 & IC:7922A-CY8CKIT062			
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>					

Prüfbericht - Nr.:
Test Report No.:

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TEST SUMMARY

Test Item	Clause		Result	Remarks
	FCC	ISED		
Maximum Peak Conducted Output Power	Section 15.247(b) (3)	RSS 247 Issue 2 Section 5.4 (d)	Pass	-
6 dB Bandwidth/DTS Bandwidth	Section 15.247(a) (2)	RSS 247 Issue 2, Section 5.2 (a)	Pass	-
Maximum Power Spectral Density	Section 15.247(e)	RSS 247 Issue 2, Section 5.2 (b)	Pass	-
Emissions in non-restricted frequency bands	Section 15.247(d)	RSS 247 Issue 2, Section 5.5	Pass	-
Spurious Radiated Emissions and Restricted Bands of Operation	Section 15.209 / 15.205	RSS-Gen Issue 4, Section 8.9/8.10	Pass	-
Conducted Emissions on A.C Power Lines	Section 15.207	RSS-Gen Issue 4 section 8.8	Pass	-

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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:

Appendix 1: Test Setup Photo

Appendix 2: EUT External Photo

Appendix 3: EUT Internal Photo

Appendix 4: FCC Label and Label Location

Appendix 5: Block Diagram

Appendix 6: Specification of EUT

Appendix 7: Schematic Diagrams

Appendix 8: Bill of Material

Appendix 9: User Manual

Appendix 10: Maximum Permissible Exposure Information

2 TEST SITES

2.1 Testing Facilities

TUV Rheinland (India) Private Limited
108 , Beside ISBR Business School,
Electronic city Phase I
Bangalore - 560 100.

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	13.02.2018	Yearly	Antenna - Port Measurements
EMI Test Receiver	Rohde & Schwarz	ESU 40	100288	24-10-2018	Yearly	Radiated Spurious Emission
Active loop antenna	Frankonia	LAX-10	LAX-10-800	13-04-2018	Yearly	
Biconical Antenna	Schwarzbeck mess-elektronik	VHBB-9124 / BBA-9106	9124-656	09-01-2018	Yearly	
Log-Periodic Antenna	Schwarzbeck mess-elektronik	VUSLP-9111B	9111B-111	10-01-2018	Yearly	
Broadband Horn Antenna	Frankonia	HAX-18	HAX18-802	16-03-2018	Yearly	
Semi Anechoic Chamber	Frankonia	-	-	-	-	
EMI Receiver	Rohde & Schwarz	ESR7	101133	16-01-2019	Yearly	AC Power line conducted emission
LISN	Rohde & Schwarz	ENV 216	100022	05-09-2018	Yearly	
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100811	10-08-2018	Yearly	

3 GENERAL PRODUCT INFORMATION

3.1 Product Function and Intended Use

The PSoC 6 BLE Pioneer Kit enables you to evaluate and develop your applications using the PSoC 6 MCU with Bluetooth Low Energy (BLE) Connectivity.

3.2 Ratings and System Details

Table 2: Ratings and System Details

Operating Frequency Range	2402 MHz – 2480 MHz
No. of Channel	40
Radio Protocol	Bluetooth Low Energy
Supporting Data Rate	1 Mbps and 2 Mbps
Transmitted Power	3.6 dBm
Channel Spacing	2 MHz
Modulation	GFSK
Number of antennas	1
Antenna Gain & Type	1.6dBi & PCB Antenna; Meandered Inverted-F Antenna (MIFA)
Supply Voltage to Product	5V USB Powered
Environmental conditions	Operating temperature is -40° C ~ 85 ° C

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 %

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

TX - Continuously transmitting test signal with random data modulation (PN9 data) with maximal power at highest, middle and lowest frequency channel.
Software Simulator used: "PSoC Programmer 3.27.0"

4.3 Special Accessories and Auxiliary Equipment

- Type-C USB cable

4.4 Countermeasures to achieve EMC Compliance

- None

4.5 Test modes – data rates and modulations

For Radiated spurious emissions, the tests were performed for both data rates(1Mbps and 2Mbps) and results are reported in this report.

4.6 List of frequencies

Table 4: List of Center Frequencies

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

Note: Test Performed with default power setting i.e 4dBm
TUV Sample Identification number : 1803284176-5 (Conducted measurement)
1803284176-6 (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 mesurement 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

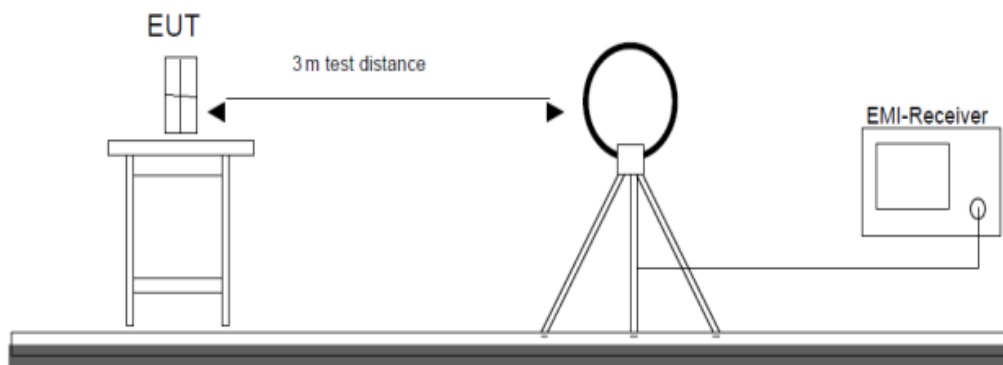


Figure 1: Frequency Range 9 kHz- 30 MHz

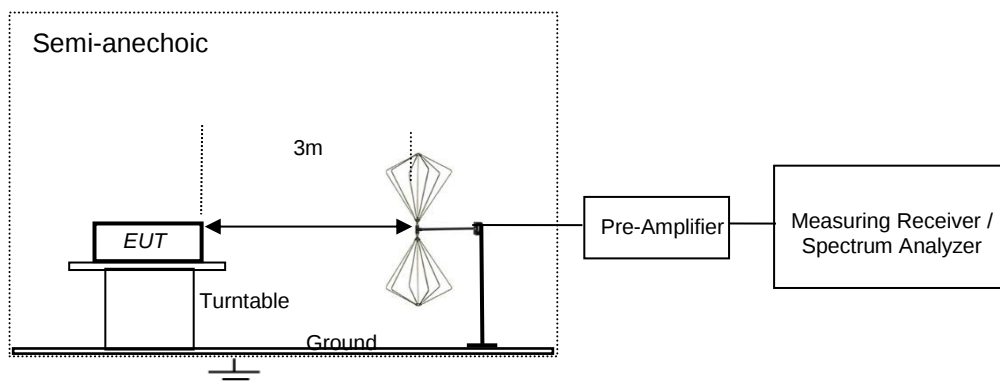


Figure 2: Frequency Range 30 MHz – 200 MHz

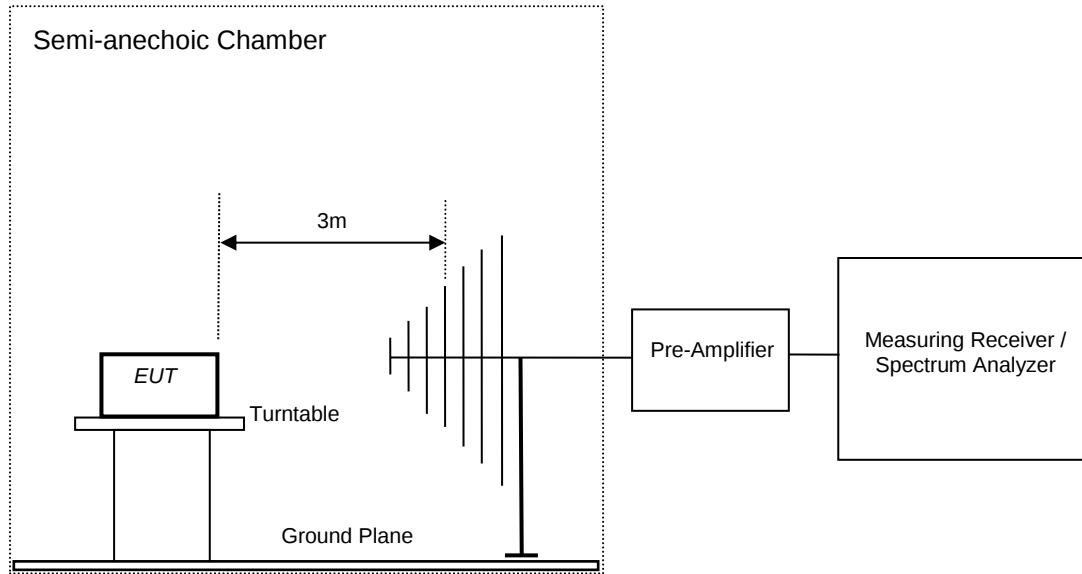


Figure 3: Frequency Range 200 MHz - 1GHz

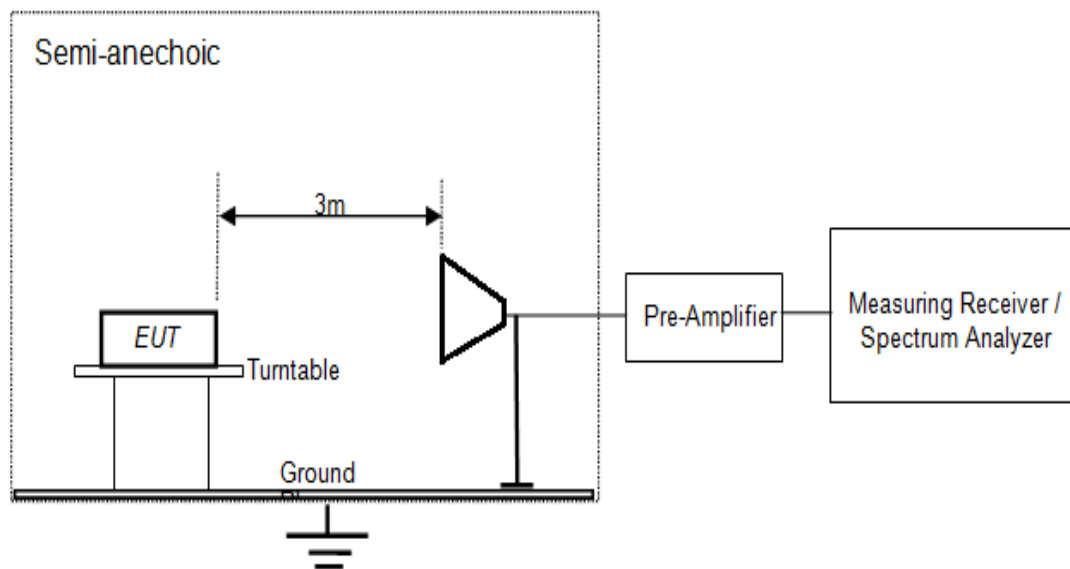


Figure 4: Frequency Range above 1 GHz

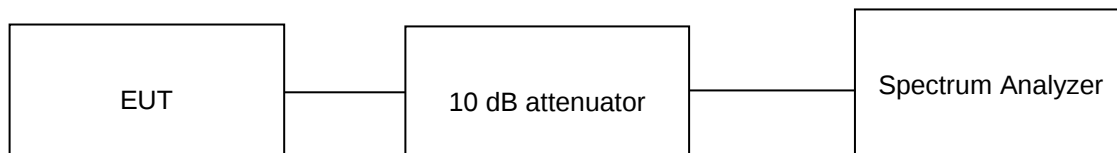
6 TEST RESULTS

6.1 Maximum Peak Conducted Output Power

Result

Pass

Test Specification	FCC part 15 Subpart C 15.247 (b)(3) RSS 247 Issue 2, Section 5.4 (d)
Measurement Bandwidth	1 MHz
Detector	Peak
Requirement	≤ 1 W (30 dBm)



Test results:

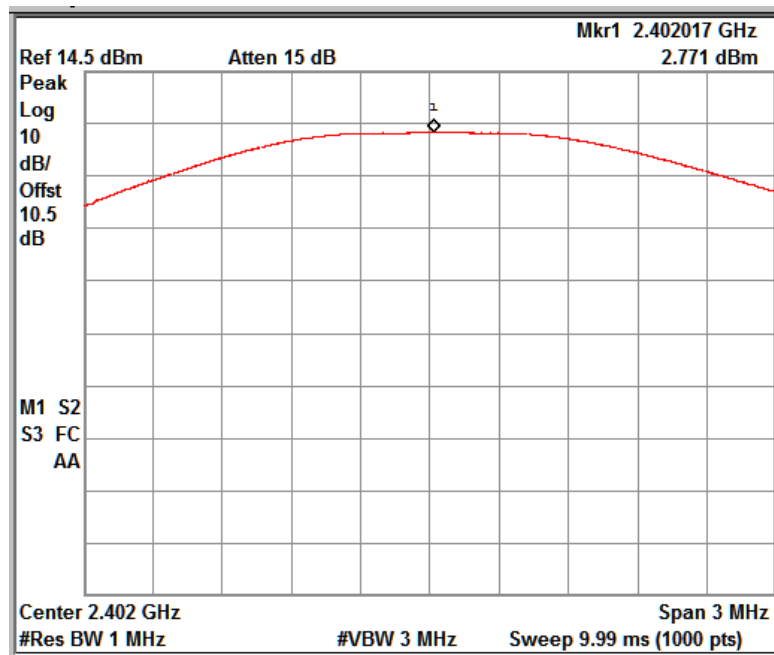
Note:

Measurements were made as per section 9.1.1 in KDB 558074 D01 DTS Measurement Guidance v04.

10 dB attenuator + 0.5 dB Cable loss = 10.5 dB offset is considered in below results

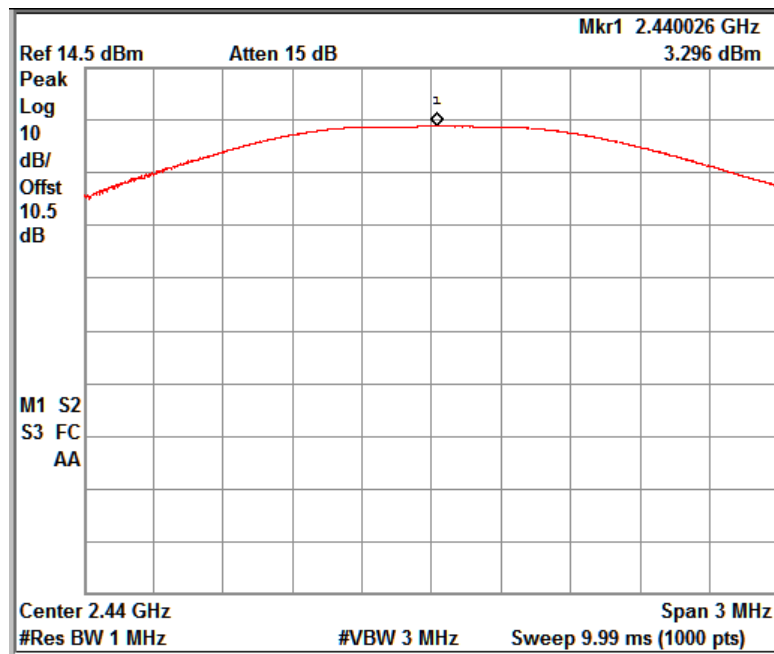
Table 5: Maximum peak conducted output power verified Test Results

Data Rate (Mbps)	Channel Frequency (GHz)	Output Power (dBm)	Limit (dBm)
1	2.402	2.771	30
	2.440	3.296	30
	2.480	3.584	30
2	2.402	2.752	30
	2.440	3.298	30
	2.480	3.603	30



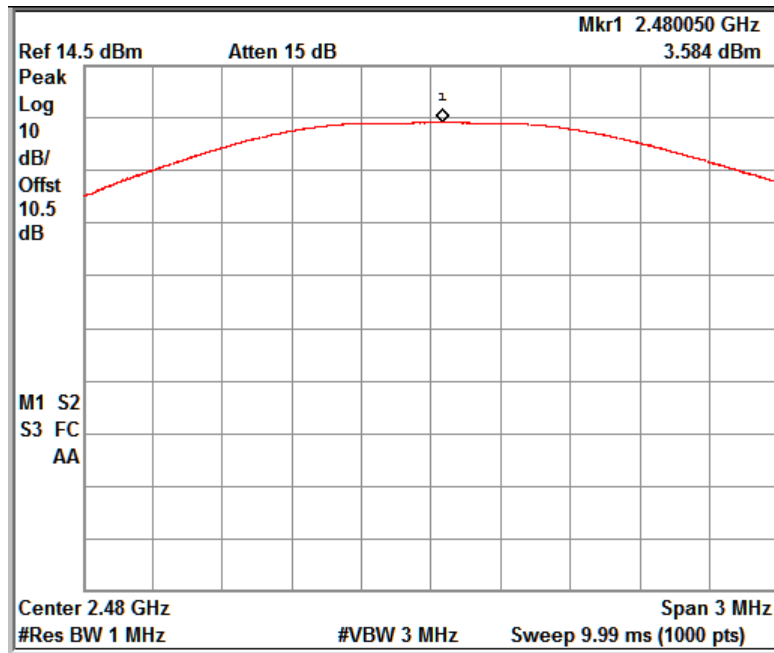
Date rate: 1 Mbps

Channel Low : 2.402 GHz



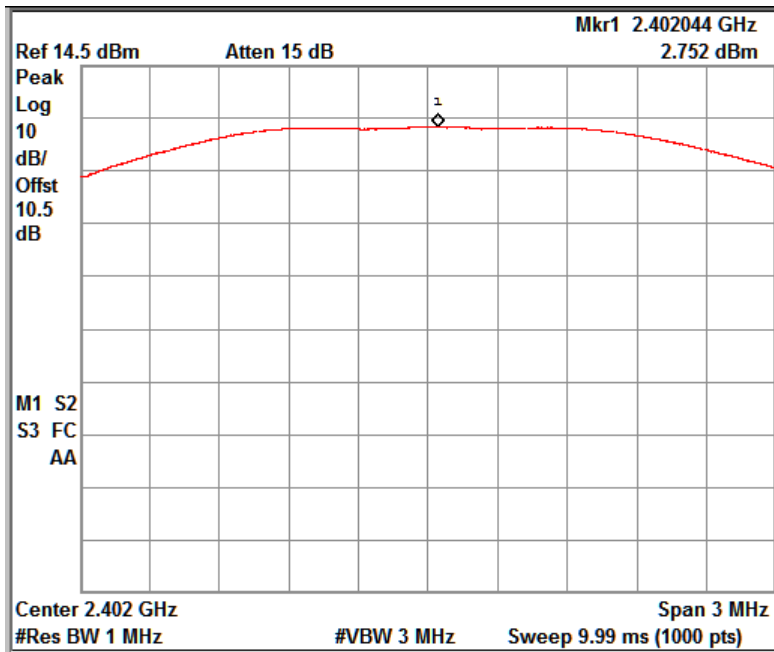
Date rate: 1 Mbps

Channel Mid : 2.440 GHz



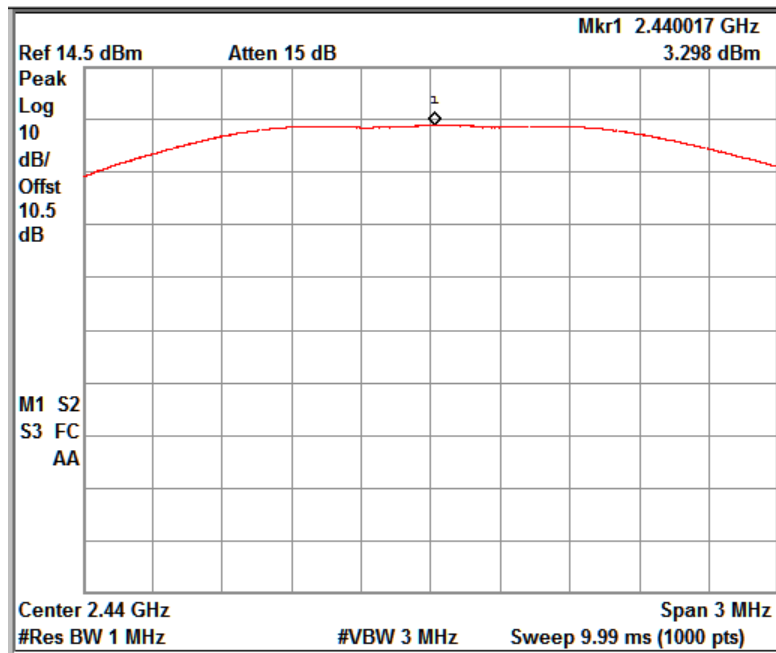
Date rate: 1 Mbps

Channel High : 2.480 GHz



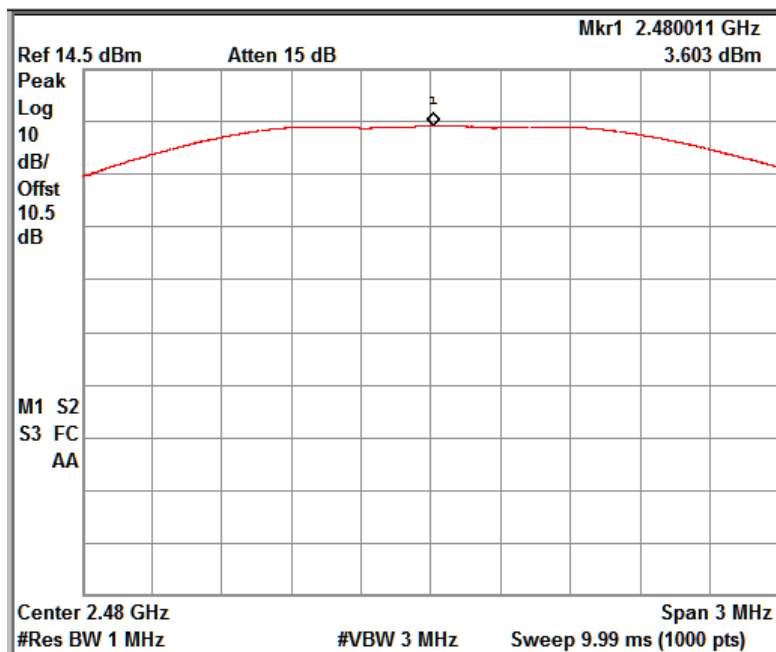
Date rate: 2 Mbps

Channel Low : 2.402 GHz



Date rate: 2 Mbps

Channel Mid : 2.440 GHz



Date rate: 2 Mbps

Channel High : 2.480 GHz

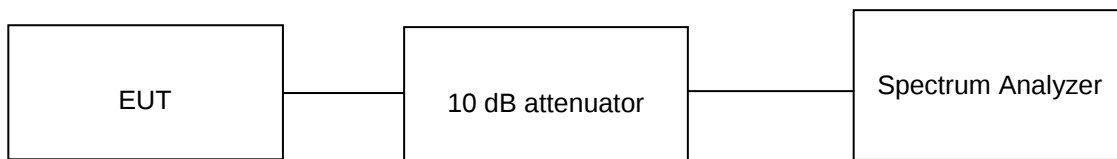
6.2 Maximum Power Spectral Density

Result

Pass

Test Specification	FCC Part 15 Subpart C Section 15.247 (e) 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:



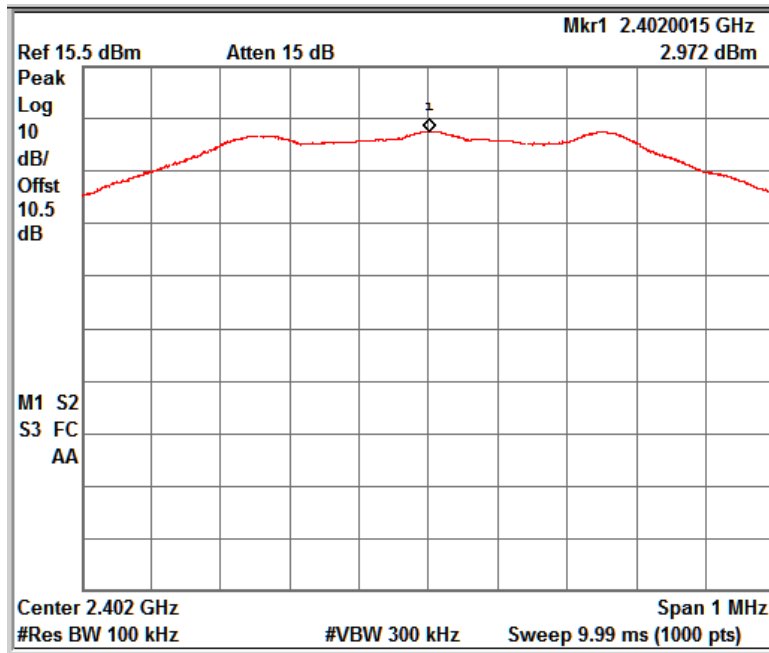
Test results:

Note: Measurements were made as per section 10.2 in KDB 558074 D01 DTS Measurement Guidance v04.

10 dB attenuator + 0.5 dB Cable loss = 10.5 dB offset is considered in below results

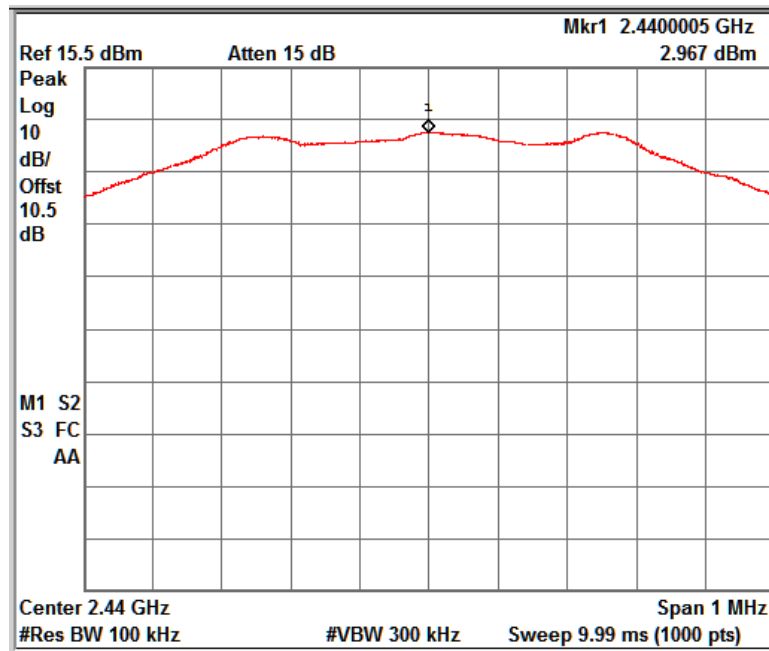
Table 6: Maximum power spectral density verified Test Results

Data Rate (Mbps)	Channel Frequency (GHz)	Total PSD (dBm)	Limit (dBm)
1	2.402	2.972	8
	2.440	2.967	8
	2.480	2.842	8
2	2.402	2.958	8
	2.440	2.961	8
	2.480	2.828	8



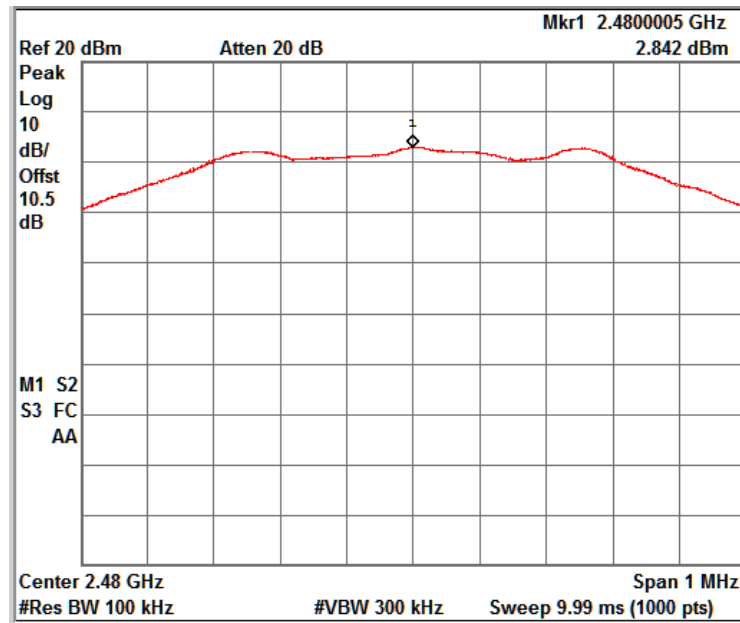
Date rate: 1 Mbps

Channel Low : 2.402 GHz



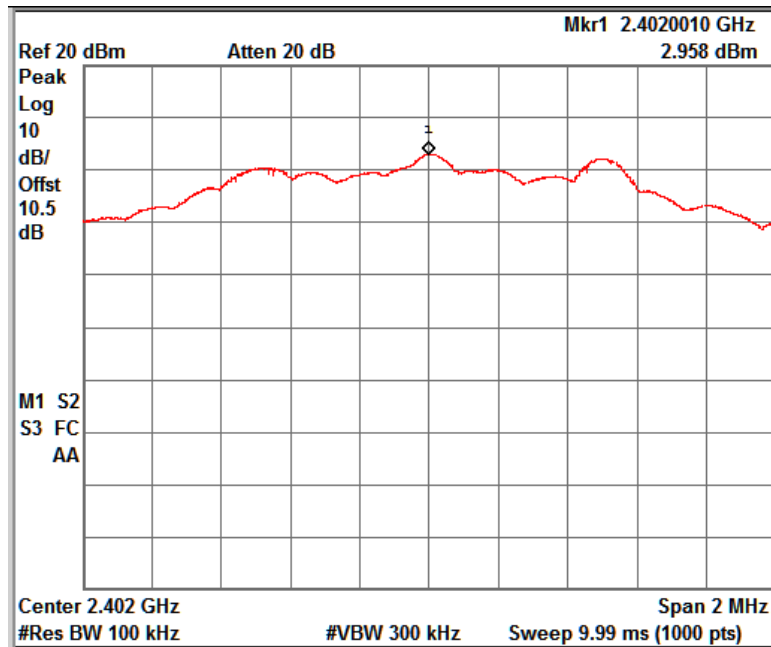
Date rate: 1 Mbps

Channel Mid : 2.440 GHz



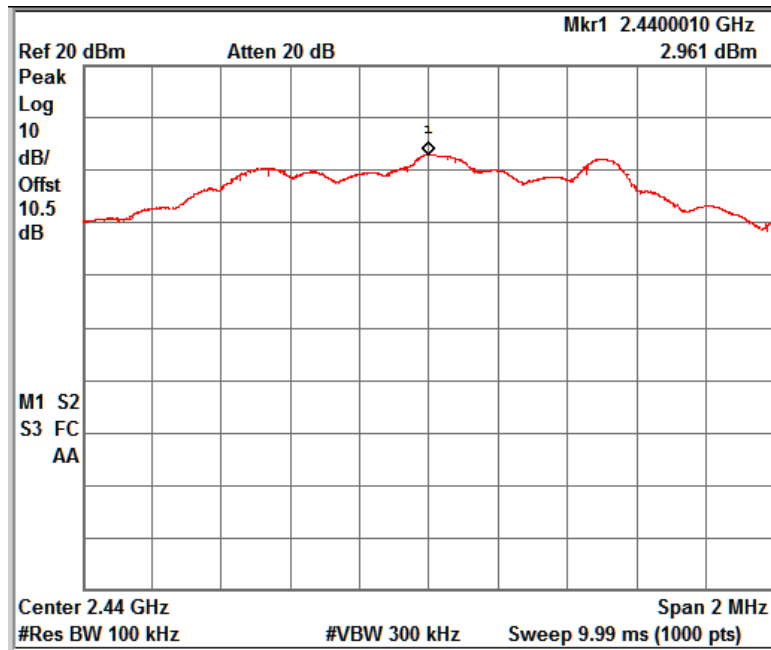
Date rate: 1 Mbps

Channel High : 2.480 GHz



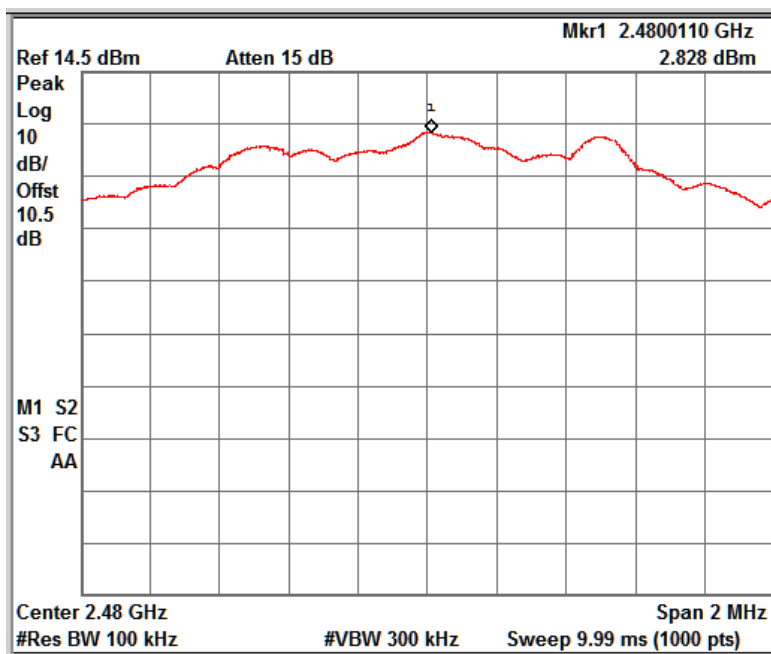
Date rate: 2 Mbps

Channel Low : 2.402 GHz



Date rate: 2 Mbps

Channel Mid : 2.440 GHz



Date rate: 2 Mbps

Channel High : 2.480 GHz

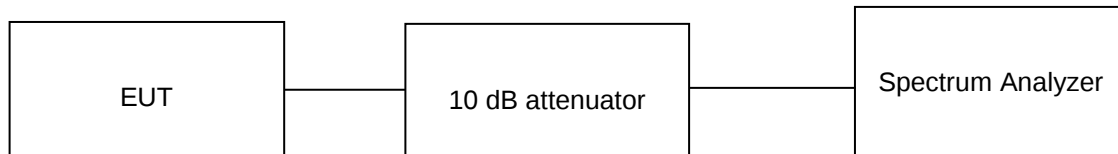
6.3 DTS Bandwidth

Result

Pass

Test Specification	FCC part 15 Subpart C Section 15.247 (a)(2) 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:

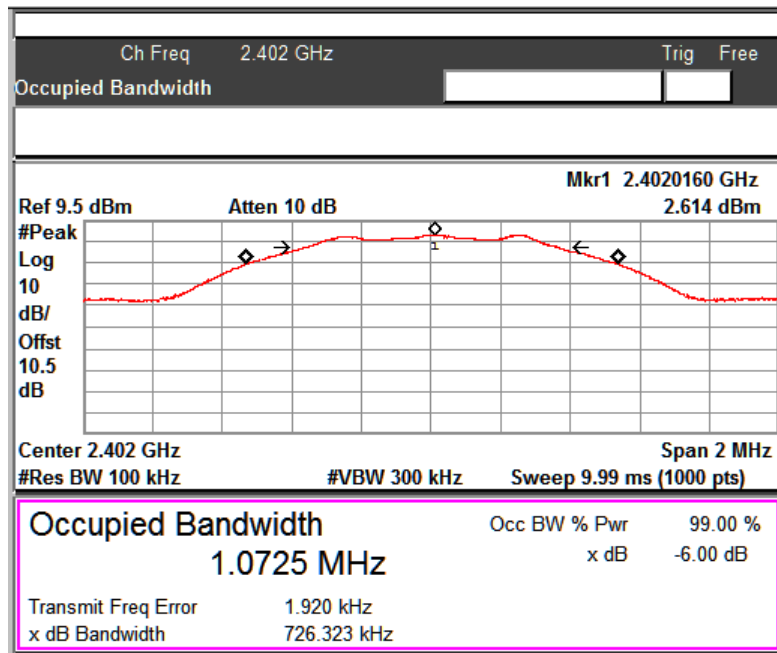
Note:

Measurements were made as per section 8.1, 8.2 in KDB 558074 D01 DTS Measurement Guidance v04.

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

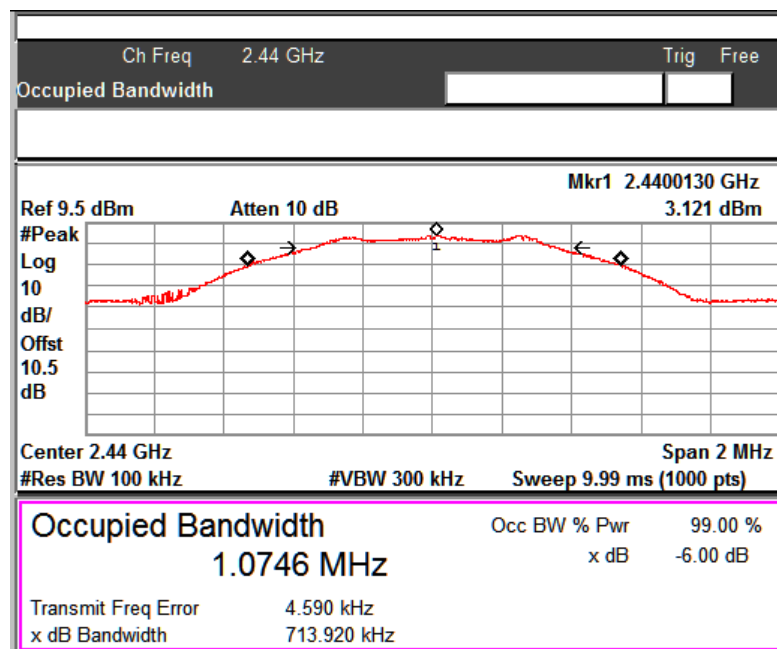
Table 7: DTS Bandwidth verified Test Results

Data Rate (Mbps)	Channel Frequency (GHz)	6dB Bandwidth (MHz)	99% OBW (MHz)
1	2.402	0.726	1.072
	2.440	0.713	1.074
	2.480	0.718	1.077
2	2.402	1.181	2.056
	2.440	1.185	2.059
	2.480	1.161	2.054



Date rate: 1 Mbps

Channel Low : 2.402 GHz



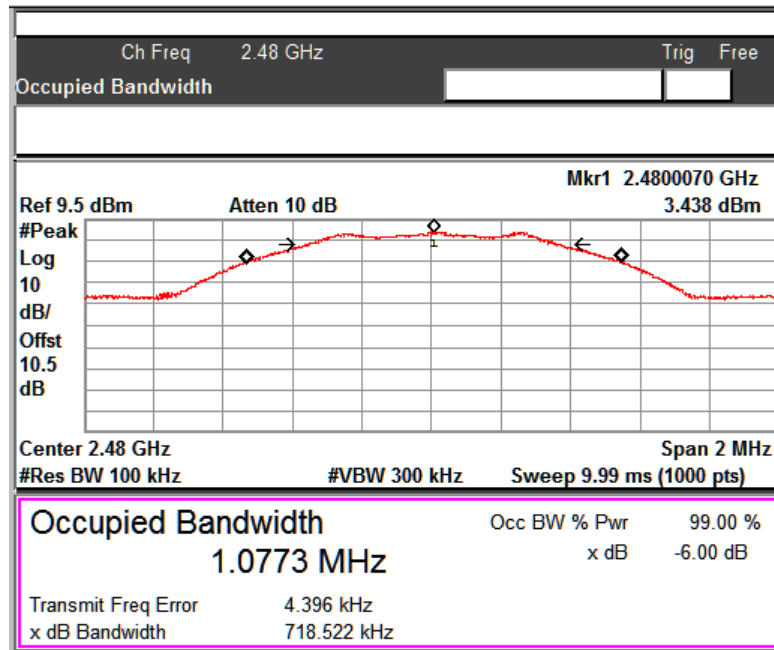
Date rate: 1 Mbps

Channel Mid : 2.440 GHz

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Test Report No.:

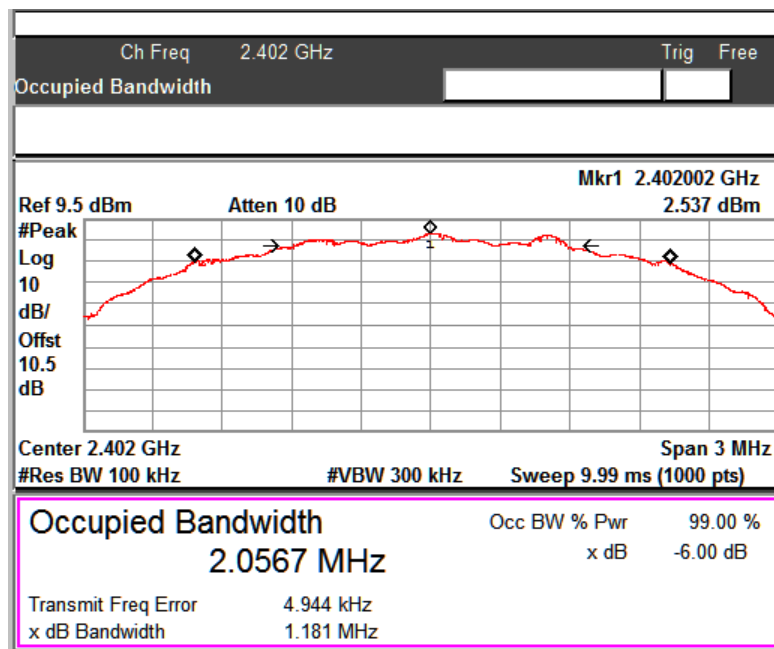
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Date rate: 1 Mbps

Channel High : 2.480 GHz



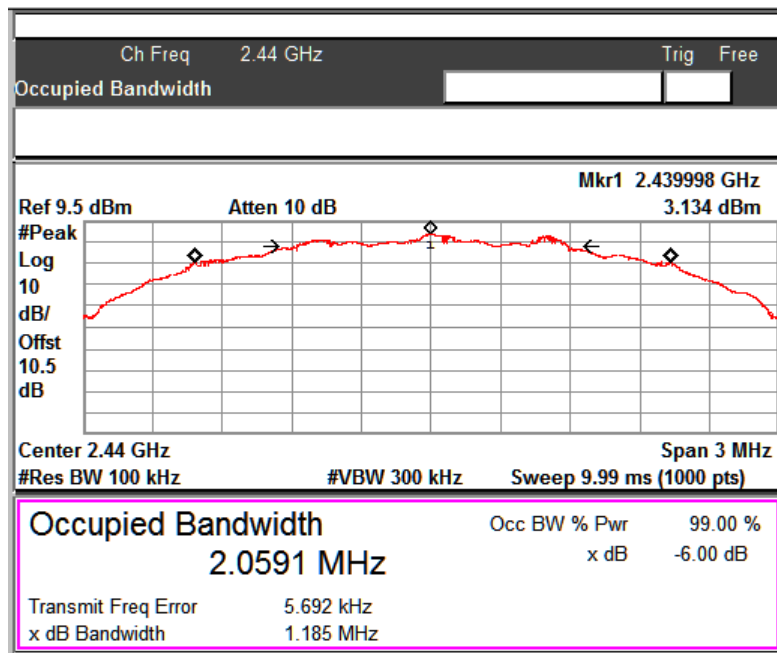
Date rate: 2 Mbps

Channel low : 2.402 GHz

Prüfbericht - Nr.:
Test Report No.:

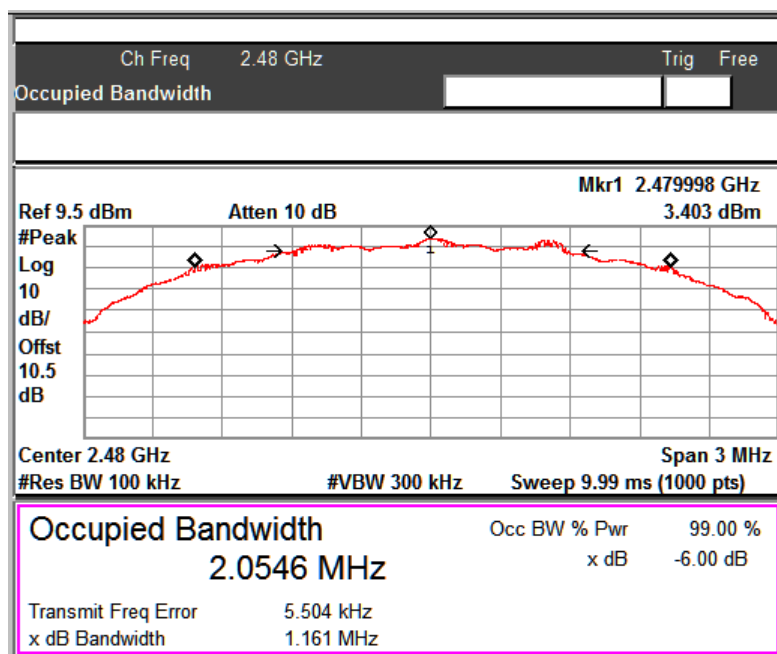
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Date rate: 2 Mbps

Channel mid : 2.440 GHz



Date rate: 2 Mbps

Channel high : 2.480 GHz

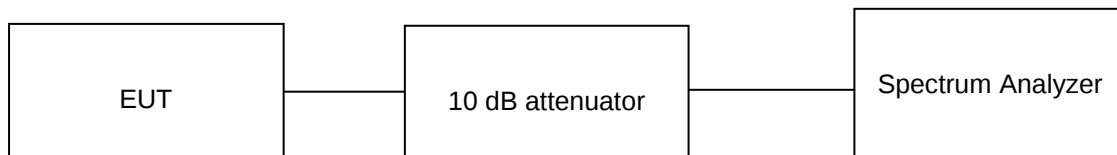
6.4 Emissions in non-restricted frequency bands and Conducted spurious Emission

Result

Pass

Test Specification	FCC Part 15 Subpart C Section 15.247 (d) 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:

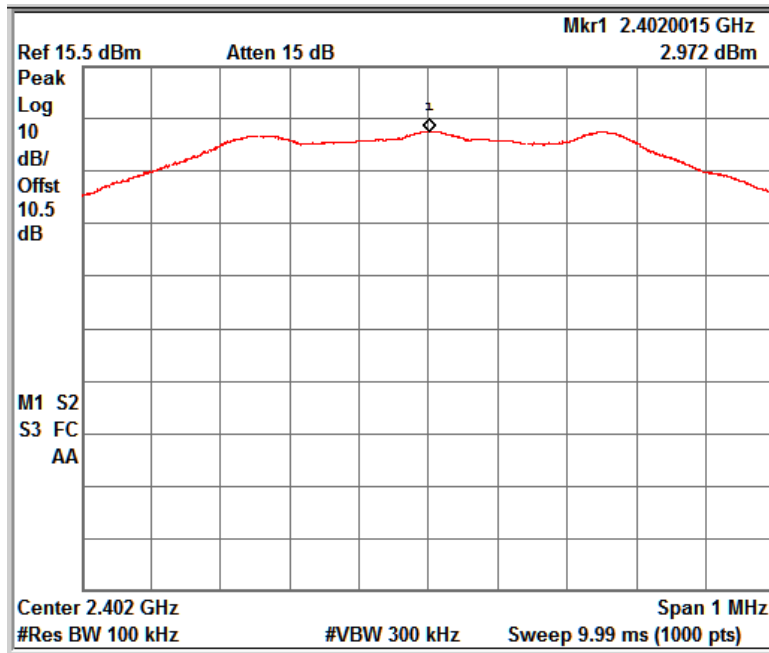
Note:

Measurements were made as per section 11.2, 11.3 in KDB 558074 D01 DTS Measurement Guidance v04.

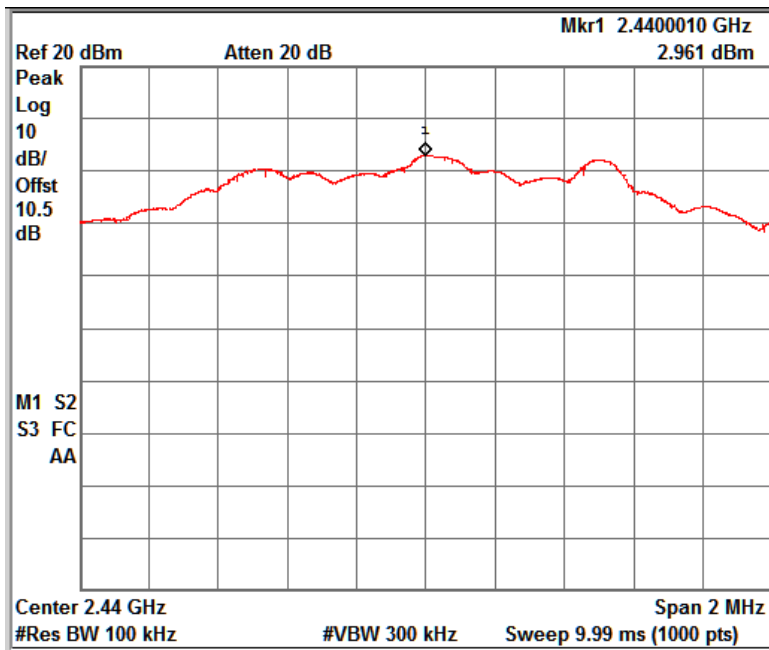
10 dB attenuator + 0.5 dB Cable loss = 10.5 dB offset is considered in below result

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

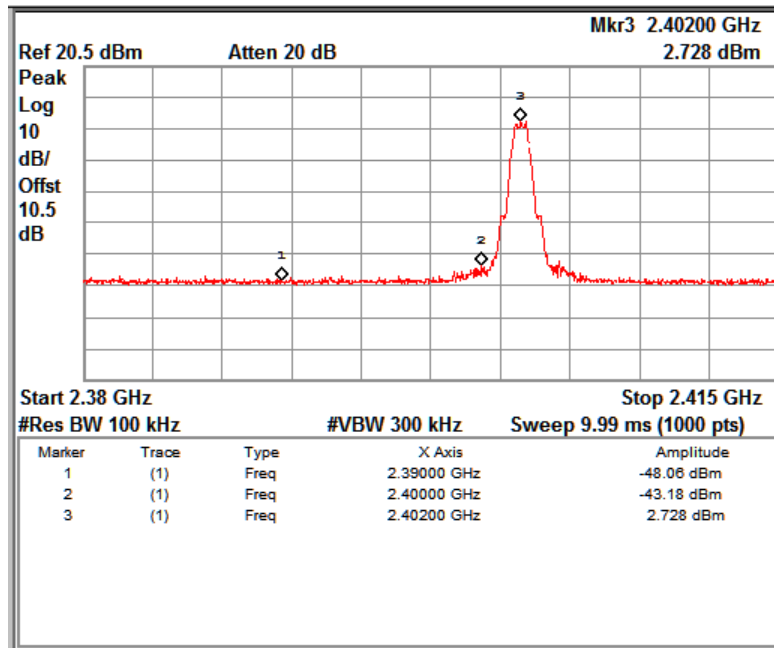
Data Rate (Mbps)	Channel Frequency (MHz)	Value at Band Edge		Reference Value B (dBm)	Band Edge Value A-B (dBc)	Limit (dBc)
		Frequency (MHz)	Value A (dBm)			
1	2402	2400	-43.18	2.97	46.15	20
	2480	2483.50	-47.35	2.97	50.32	20
2	2402	2400	-29.84	2.96	32.80	20
	2480	2483.50	-46.60	2.96	49.56	20



Reference Level Plot : 1 Mbps

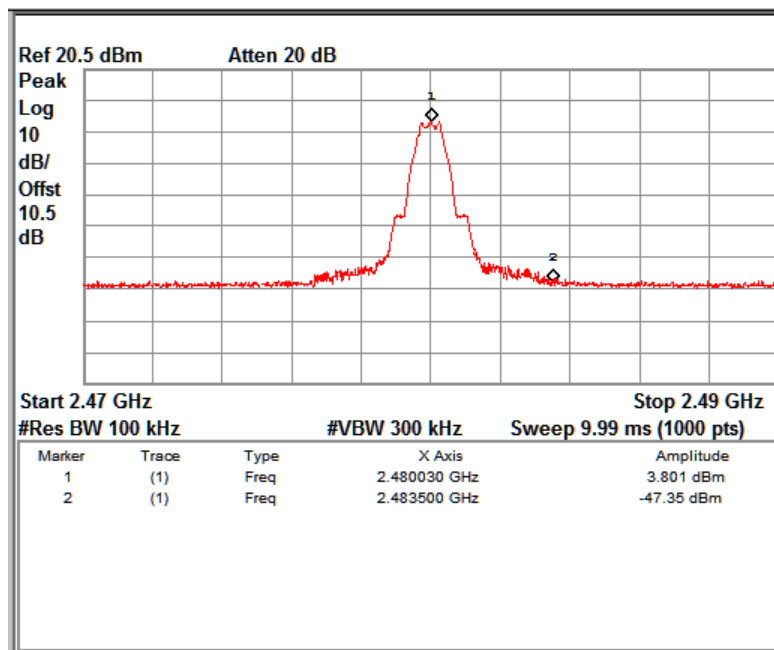


Reference Level Plot : 2 Mbps



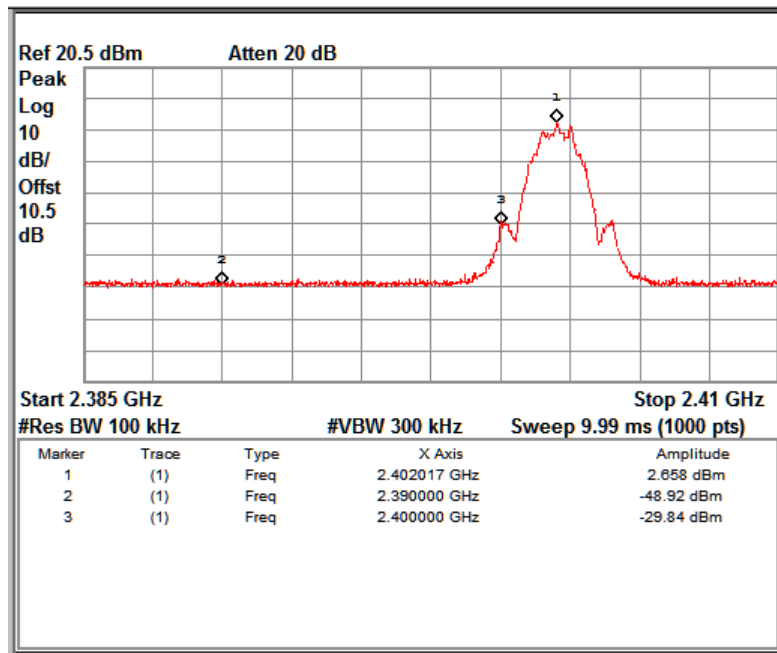
Date rate: 1 Mbps

Channel mid : 2402 MHz



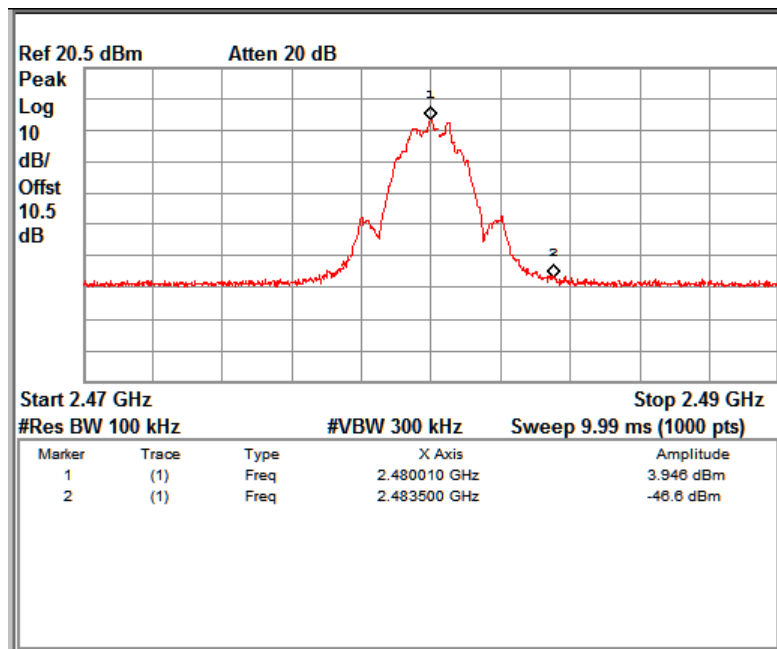
Date rate: 1 Mbps

Channel high : 2480 MHz



Date rate: 2 Mbps

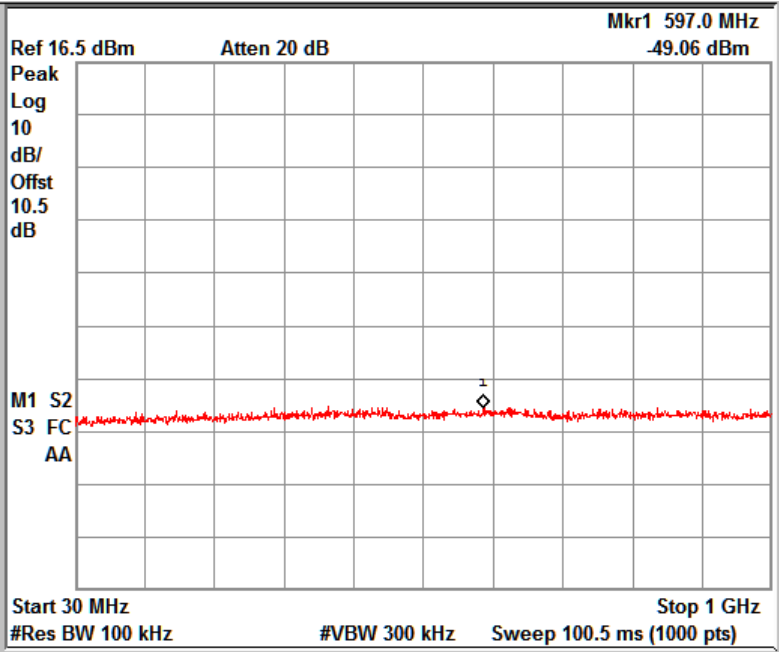
Channel low : 2402 MHz



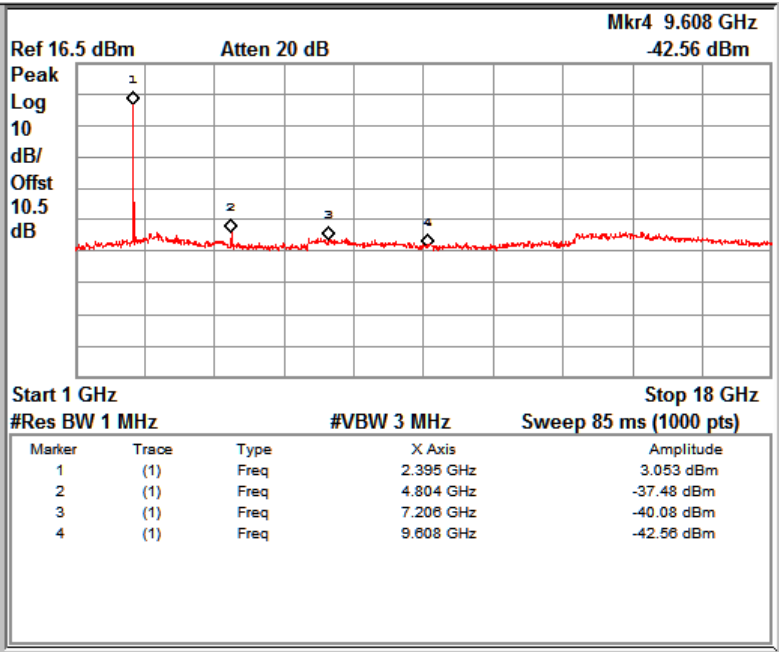
Date rate: 2 Mbps

Channel low – 2480 MHz

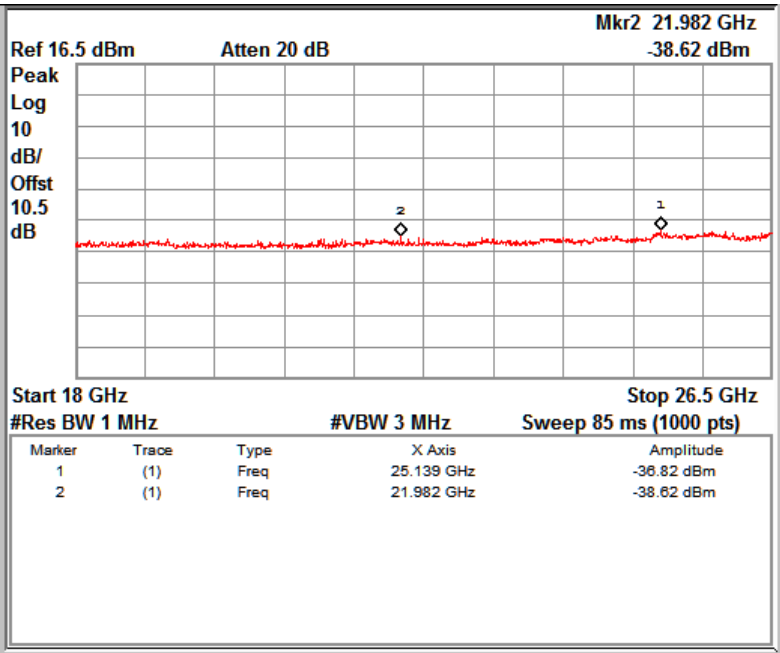
Test results: Conducted spurious emission test performed on 1 Mbps low channel



30MHz to 1GHz Spurious Emissions



Frequency range: 1GHz to 18GHz



Frequency range:18GHz to 26.5GHz

6.5 Spurious Radiated Emissions & Restricted Bands of Operation

Result

Pass

Test Specification	FCC part 15 Subpart C Section 15.247 (d)/(15.209 & 15.205) 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 (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: 5V DC (USB Powered)

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 Operationn Test Results

Data Rate (Mbps)	Channel Frequency (MHz)	Polarization	Frequency (MHz)	Measured Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	2402	Vertical	2390(Pk)	42.48	74	-31.52
			2390(Av)	27.54	54	-26.46
			2402(Pk)	92.43	*	*
			2402(Av)	91.63	*	*
			4804(Pk)	46.04	74	-27.96
			4804(Av)	32.58	54	-21.42
			7206(Pk)	48.93	74	-25.07
			7206(Av)	35.64	54	-18.36
		Horizontal	2390(Pk)	46.19	74	-27.81
			2390(Av)	28.29	54	-25.71
			2402(Pk)	97.94	*	*
			2402(Av)	96.00	*	*
			4804(Pk)	45.92	74	-28.08
			4804(Av)	32.54	54	-21.46
			7206(Pk)	49.48	74	-24.52
			7206(Av)	35.64	54	-18.36
	2440	Vertical	2440(Pk)	92.68	*	*
			2440(Av)	89.76	*	*
			4880(Pk)	46.91	74	-27.09
			4880(Av)	34.05	54	-19.95
			7320(Pk)	49.34	74	-24.66
			7320(Av)	36.10	54	-17.90
		Horizontal	2440(Pk)	99.99	*	*
			2440(Av)	96.72	*	*
			4880(Pk)	47.86	74	-26.14
			4880(Av)	37.03	54	-16.97
			7320(Pk)	49.72	74	-24.28
			7320(Av)	36.17	54	-17.83

Note:

Pk: Peak Detector
Av: Average Detector

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Data Rate (Mbps)	Channel Frequency (MHz)	Polarization	Frequency (MHz)	Measured Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)
1	2480	Vertical	2483.5(Pk)	54.92	74	-19.08
			2483.5(Av)	32.64	54	-21.36
			2480(Pk)	94.36	*	*
			2480(Av)	93.65	*	*
			4960(Pk)	46.78	74	-27.22
			4960(Av)	34.51	54	-19.49
			7440(Pk)	50.59	74	-23.41
			7440(Av)	36.73	54	-17.27
		Horizontal	2483.5(Pk)	63.28	74	-10.72
			2483.5(Av)	39.82	54	-14.18
			2480(Pk)	102.13	*	*
			2480(Av)	101.03	*	*
			4960(Pk)	48.62	74	-25.38
			4960(Av)	39.30	54	-14.70
			7440(Pk)	49.44	74	-24.56
			7440(Av)	36.74	54	-17.26
2	2402	Vertical	2390(Pk)	41.54	74	-32.46
			2390(Av)	25.82	54	-28.18
			2402(Pk)	92.60	*	*
			2402(Av)	89.17	*	*
			4804(Pk)	46.82	74	-27.18
			4804(Av)	33.91	54	-20.09
			7206(Pk)	50.11	74	-23.89
			7206(Av)	35.64	54	-18.36
		Horizontal	2390(Pk)	46.41	74	-27.59
			2390(Av)	32.78	54	-21.22
			2402(Pk)	97.91	*	*
			2402(Av)	95.01	*	*
			4804(Pk)	47.28	74	-26.72
			4804(Av)	34.74	54	-19.26
			7206(Pk)	48.23	74	-25.77
			7206(Av)	36.07	54	-17.93
	2440	Vertical	2440(Pk)	93.22	*	*
			2440(Av)	90.48	*	*
			4880(Pk)	46.79	74	-27.21
			4880(Av)	34.06	54	-19.94
			7320(Pk)	51.62	74	-22.38
			7320(Av)	38.74	54	-15.26
		Horizontal	2440(Pk)	99.82	*	*
			2440(Av)	98.96	*	*
			4880(Pk)	48.27	74	-25.73
			4880(Av)	35.73	54	-18.27
			7320(Pk)	50.74	74	-23.26
			7320(Av)	37.74	54	-16.26

Note:

Pk: Peak Detector

Av: Average Detector

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Data Rate (Mbps)	Channel Frequency (MHz)	Polarization	Frequency (MHz)	Measured Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2	2480	Vertical	2483.5(Pk)	54.62	74	-19.38
			2483.5(Av)	34.69	54	-19.31
			2480(Pk)	94.66	*	*
			2480(Av)	91.14	*	*
			4960(Pk)	46.59	74	-27.41
			4960(Av)	33.41	54	-20.59
			7440(Pk)	50.99	74	-23.01
			7440(Av)	38.66	54	-15.34
		Horizontal	2483.5(Pk)	63.21	74	-10.79
			2483.5(Av)	41.21	54	-12.79
			2480(Pk)	102.2	*	*
			2480(Av)	99.30	*	*
			4960(Pk)	46.48	74	-27.52
			4960(Av)	34.47	54	-19.53
			7440(Pk)	50.79	74	-23.21
			7440(Av)	38.32	54	-15.68

Note:

Pk: Peak Detector
Av: Average Detector

6.6 Conducted Spurious Emission Test on AC Power Line

Result

Pass

Test Specification : FCC Part 15 Section 15.207
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: FCC Part 15 section 15.207 and 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

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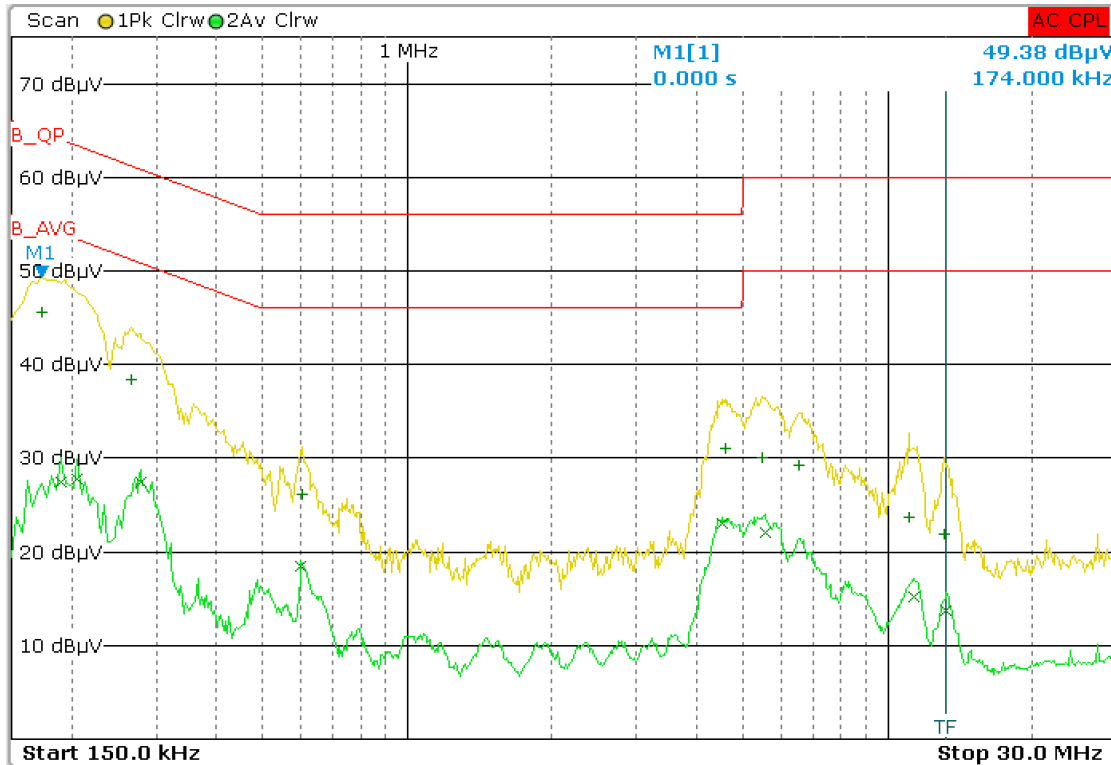
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Test Result



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	174.00000000 kHz	45.59		Quasi Peak	-19.18
1	266.00000000 kHz	38.39		Quasi Peak	-22.85
2	4.538000000 MHz	22.98		Average	-23.02
2	278.00000000 kHz	27.43		Average	-23.45
1	4.582000000 MHz	31.10		Quasi Peak	-24.90
2	206.00000000 kHz	27.71		Average	-25.66
2	190.00000000 kHz	27.44		Average	-26.60
2	602.00000000 kHz	18.42		Average	-27.58
2	5.546000000 MHz	22.03		Average	-27.97
1	606.00000000 kHz	26.10		Quasi Peak	-29.90
1	5.474000000 MHz	30.07		Quasi Peak	-29.93
1	6.542000000 MHz	29.17		Quasi Peak	-30.83
2	11.306000000 MHz	15.23		Average	-34.77
1	11.090000000 MHz	23.71		Quasi Peak	-36.29
2	13.250000000 MHz	13.68		Average	-36.32
1	13.114000000 MHz	21.97		Quasi Peak	-38.03

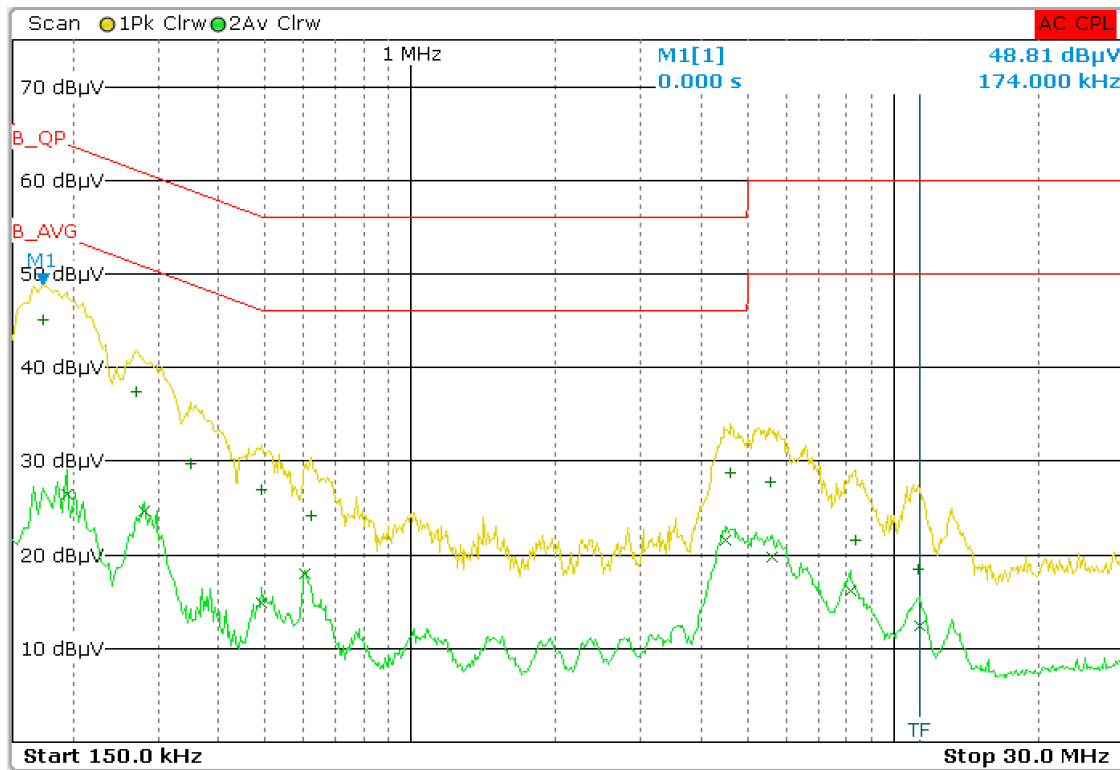
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Neutral: Graph

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
1	174.00000000 kHz	45.15		Quasi Peak	-19.62
1	270.00000000 kHz	37.45		Quasi Peak	-23.67
2	4.506000000 MHz	21.62		Average	-24.38
2	282.00000000 kHz	24.73		Average	-26.03
1	4.602000000 MHz	28.82		Quasi Peak	-27.18
2	194.00000000 kHz	26.41		Average	-27.45
2	606.00000000 kHz	17.92		Average	-28.08
1	490.00000000 kHz	26.95		Quasi Peak	-29.22
1	350.00000000 kHz	29.67		Quasi Peak	-29.29
2	5.594000000 MHz	19.77		Average	-30.23
2	490.00000000 kHz	14.82		Average	-31.35
1	622.00000000 kHz	24.18		Quasi Peak	-31.82
1	5.570000000 MHz	27.77		Quasi Peak	-32.23
2	8.146000000 MHz	16.12		Average	-33.88
2	11.330000000 MHz	12.38		Average	-37.62
1	8.350000000 MHz	21.60		Quasi Peak	-38.40
1	11.238000000 MHz	18.43		Quasi Peak	-41.57

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