

ISED CABid: ES1909

Test Report No:

Lab. Company Number: 4621A

72667RRF.001

Test Report

USA FCC Part 15.247, 15.209

CANADA RSS-247, RSS-Gen

(*) Identification of item tested	SALTO DBolt Touch electronic lock series including all mechanical variants
(*) Trademark	SALTO
(*) Model and /or type reference	DM0M / (Type reference: E2133)
Other identification of the product	FCC ID: UKCDM0M IC: 10088A-DM0M
(*) Features	Features: Bluetooth LE HW version: 1.0 SW version: 0190 (Control FW), 0179 (Motor FW) 0186 (FUS FW), 0187 (BLE FW)
Applicant	SALTO SYSTEMS, S.L. Arkotz 9, Polígono Lanbarren 20180, Oiartzun, Gipuzkoa, SPAIN
Test method requested, standard	USA FCC Part 15.247 (10-1-21 Edition): Operation within the bands 902 - 928 MHz, 2400 -2483.5 MHz, and 5725 - 5850 MHz. USA FCC Part 15.209 (10-1-21 Edition): Radiated emission limits; general requirements. CANADA RSS-247 Issue 2 (February 2017). CANADA RSS-Gen Issue 5 amendment 2 (February 2021). Guidance for Performing Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid Systems Devices Operating Under Section 15.247 of the FCC Rules. 558074 D01 Meas Guidance v05r02 dated April 2, 2019. ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	José Manuel Gómez Galván EMC Consumer & RF Lab. Manager 
Date of issue	2023-05-16
Report template No	FDT08_24 (*) "Data provided by the client"

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Acronyms

Acronym ID	Acronym Description
	E.I.R.P.
# of Tx Chains	Number of Transmission Chains
Avg Power	Maximum Average Conducted Output Power
BW	Bandwidth
Detector	Detector used
Ebw	Emission Bandwidth
Equipment	Equipment Type
Freq	Frequency
Freq Rng	Frequency Range
Inband Peak Lvl	Inband Peak Level
Lvl	Level
MP	Measurement Point
Mod	Modulation
Occ Ch BW	Occupied Channel Bandwidth
PSD	Power Spectrum Density
Pol	Polarization
Port	Active Port
Unwanted Freq	Unwanted Emissions Frequency
Unwanted Lvl	Unwanted Emissions Level

Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

DEKRA Testing and Certification S.A.U. is an FCC-recognized accredited testing laboratory with appropriate scope of accreditation that covers the performed tests in this report.

DEKRA Testing and Certification S.A.U. is an ISED-recognized accredited testing laboratory, CABid: ES1909, Company Number: 4621A, with the appropriate scope of accreditation that covers the performed tests in this report.

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The results presented in this Test Report apply only to the particular item under test established in this document.

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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.A.U. and the Accreditation Bodies.

Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

The total uncertainty of the measurement system for the radiated emissions of EUT from 30 MHz to 1 GHz is:
Measurement uncertainty $\leq \pm 5,35$ dB with factor ($k = 2$).

The total uncertainty of the measurement system for the radiated emissions of EUT from 1 GHz to 17 GHz is:
Measurement uncertainty $\leq \pm 4,32$ dB with factor ($k = 2$).

The total uncertainty of the measurement system for the radiated emissions of EUT from 17 GHz to 26 GHz is:
Measurement uncertainty $\leq \pm 5,51$ dB with factor ($k = 2$).

The total uncertainty of the measurement system for the conducted testing of EUT is:

RF Average Output Power: Measurement uncertainty $\leq \pm 0,99$ dB

Power Spectral Density: Measurement uncertainty $\leq \pm 0,99$ dB

6dB Bandwidth: Measurement uncertainty $\leq \pm 2,84$ %

Occupied Channel Bandwidth: Measurement uncertainty $\leq \pm 1,17$ %

Conducted Band-edge spurious emissions: Measurement uncertainty $\leq \pm 1,76$ dB

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of a SALTO DBolt Touch electronic lock series with RFID Mifare (ISO 14443A & ISO 15693 standard based) and Bluetooth LE technology.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Id	Control Number	Description	Model	Serial N°	Date of Reception	Application
S/01	72667_41.1	SALTO DBolt Touch electronic lock	DM0M	--	2023-02-23	Element Under Test
S/02	72667_36.1	SALTO DBolt Touch electronic lock	DM0M	--	2023-02-23	Element Under Test

Notes referenced to samples during the project:

Id	Type
S/01	Sample used for radiated test
S/02	Sample used for conducted test

Test sample description

Ports..... :	Port name and description		Cable				
			Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾	
	--			[]	[]	[]	
Supplementary information to the ports..... :							
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[]	AC:					
	[X]	DC: 4.5 Vdc (3 x LR6 batteries), 5 Vmax, 3.2/3 Vmin					
Rated Power	--						
Clock frequencies..... :	32 MHz, 32.768 kHz, 27.12 MHz						
Other parameters	N/A						
Software version	0190 (Control FW) + 0179 (Motor FW) + 0186 (FUS FW) + 0187 (BLE FW)						
Hardware version	1.0						
Dimensions in cm (W x H x D)	Reader: 6.8 x 16 x 4.6 cm; Control: 7.2 x 14.8 x 5.27 cm						
Mounting position	[]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[]	Hand-held equipment					
	[X]	Other: door mounting					
Modules/parts..... :	Module/parts of test item			Type	Manufacturer		
	SoC + Antenna			BLE	ST + JOHANSON		
Accessories (not part of the test item)	Description			Type	Manufacturer		
	--						
Documents as provided by the applicant..... :	Description			File name	Issue date		
	--						

⁽³⁾ Only for Medical Equipment

Identification of the client

SALTO SYSTEMS, S.L.
Arkotz 9, Polígono Lanbarren
20180, Oiartzun, Gipuzkoa, SPAIN

Testing period and place

Test Location	DEKRA Testing and Certification S.A.U.
Date (start)	2023-03-06
Date (finish)	2023-04-12

Document history

Report number	Date	Description
72667RRF.001	2023-05-16	First release.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

In the semianechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 20 % Max. = 75 %

Remarks and comments

The tests have been performed by the technical personnel: Miguel Manuel Lopez, Rafael Fernandez and Sergio Carrasco.

Used instrumentation:

Control No.	Equipment	Model	Manufacturer	Next Calibration
6791	SEMIANECHOIC ABSORBER LINED CHAMBER IV	FACT 3 200 STP	ETS LINDGREN	N/A
6792	SHIELDED ROOM	S101	ETS LINDGREN	N/A
4578	HYBRID BILOG ANTENNA 30MHz-6GHz	3142E	ETS LINDGREN	2023-04-30
6142	PRE-AMPLIFIER G>38dB 30MHz-6GHz	BLNA 0360-01N	BONN ELEKTRONIK	2023-06-16
6165	EMI TEST RECEIVER 9kHz-7GHz	ESR7	ROHDE AND SCHWARZ	2023-11-08
6496	HORN ANTENNA 1-18GHz	BBHA 9120 D	SCHWARZBECK	2023-08-24
4657	HORN ANTENNA 18-40GHz	BBHA 9170	SCHWARZBECK	2023-05-05
8856	PRE-AMPLIFIER G>30dB 18-40GHz	BLMA 1840-4A	BONN ELEKTRONIK	2023-11-02
3783	PRE-AMPLIFIER G>30dB 1GHz-18GHz	BLMA 0118-3A	BONN ELEKTRONIK	2023-12-29
4716	SIGNAL AND SPECTRUM ANALYZER 2Hz-50GHz	FSW50	ROHDE AND SCHWARZ	2024-08-12
7817	EMI TEST RECEIVER 2Hz-44GHz	ESW44	ROHDE AND SCHWARZ	2023-12-30
4848	SOFTWARE FOR EMC/RF TESTING	EMC32	ROHDE AND SCHWARZ	N/A
6668	SIGNAL AND SPECTRUM ANALYZER 10Hz-40GHz	FSV40	ROHDE AND SCHWARZ	2024-12-14
8848	OPEN SWITCH UNIT UP TO 7.5 GHz	OSP-B157W8 PLUS	ROHDE & SCHWARZ	2023-08-20
7796	EXTENSION FOR OPEN SWITCH UNIT UP TO 40GHz	OSP-B157Wx	ROHDE AND SCHWARZ	2024-03-16
7798	SOFTWARE FOR EMC/RF TESTING	WMS32	ROHDE AND SCHWARZ	N/A

Testing verdicts

Fail	F
Inconclusive	I
Not applicable	N/A
Not measured	N/M
Pass	P

Summary

Bluetooth Low Energy 4.2 (1M)

FCC PART 15 PARAGRAPH/ RSS-247			
Requirement – Test case		Verdict	Remark
FCC 15.247 (a)(2) / RSS-247 5.2. (a)	6 dB Bandwidth	P	--
FCC 15.247 (b) / RSS-247 5.4. (d)	Maximum Average Conducted output Power	P	--
FCC 15.247 (d) / RSS-247 5.5.	Band-edge emissions compliance (Transmitter)	P	--
FCC 15.247 (e) / RSS-247 5.2. (b)	Power spectral density	P	--
FCC 15.247 (d) / RSS-247 5.5.	Emission limitations radiated (Transmitter)	P	--
<u>Supplementary information and remarks:</u>			
None			

Appendix A: Test results. Bluetooth Low Energy 4.2 (1M)

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TEST CONDITIONS

(*): Data provided by the client.

POWER SUPPLY (*):

Vnominal: 4.5Vdc
Type of Power Supply: 3 x LR6 batteries

ANTENNA (*):

Type of Antenna: Integral (Chip)
Maximum Declared Antenna Gain: +0.5dBi

TEST FREQUENCIES (*):

Modulation	Data rates	Low Channel:	Middle Channel	High Channel
BTLE GFSK	1 Mbit/s	2402 MHz	2440 MHz	2480 MHz

During transmitter test the EUT was controlled by a SW tool provided by the client to operate in a continuous transmit mode on the modulation schemes and test channels as required.

CONDUCTED MEASUREMENTS:

The equipment under test was set up in a shielded room and it is connected to the TS8997 using a low loss RF cable. The reading of the spectrum analyser is corrected taking into account the cable loss.



RADIATED MEASUREMENTS:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Bilog antenna for the range between 30 MHz to 1000 MHz and 1 GHz-17 GHz Double ridge horn antenna) is situated at a distance of 3 m and at a distance of 1.5 m for the frequency range 17 GHz-26 GHz (17 GHz-40 GHz horn antenna).

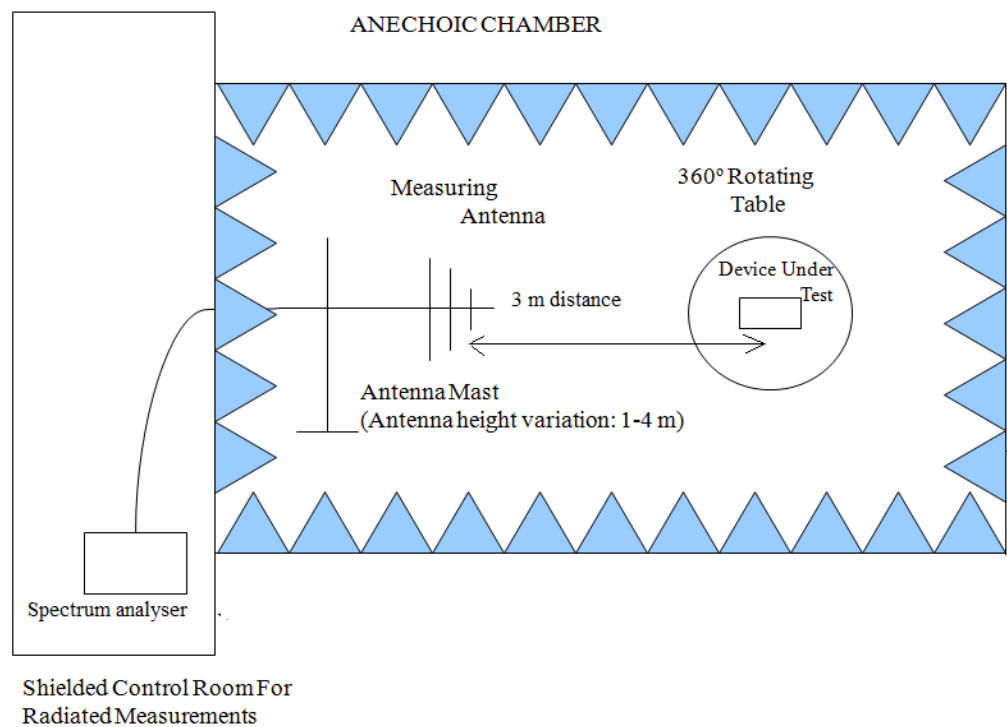
For radiated emissions in the range 17 GHz-26 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height (Bilog antenna and Double ridge horn antenna) was varied from 1 to 4 meters to find the maximum radiated emission.

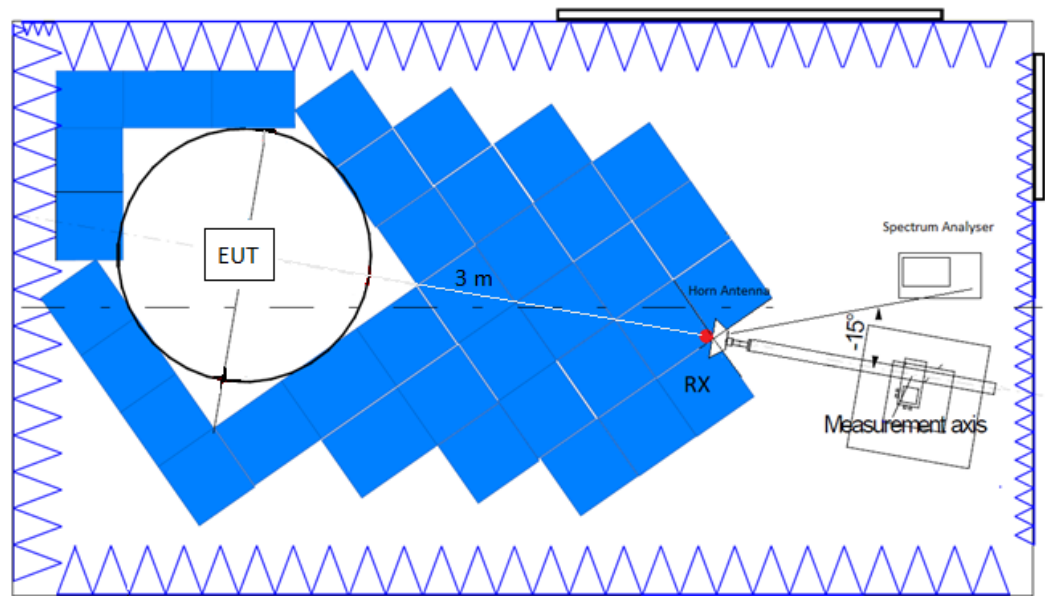
Measurements were made in both horizontal and vertical planes of polarization.

A resolution bandwidth/video bandwidth of 100 kHz / 300 kHz was used for frequencies below 1 GHz and 1 MHz / 3 MHz for frequencies above 1 GHz.

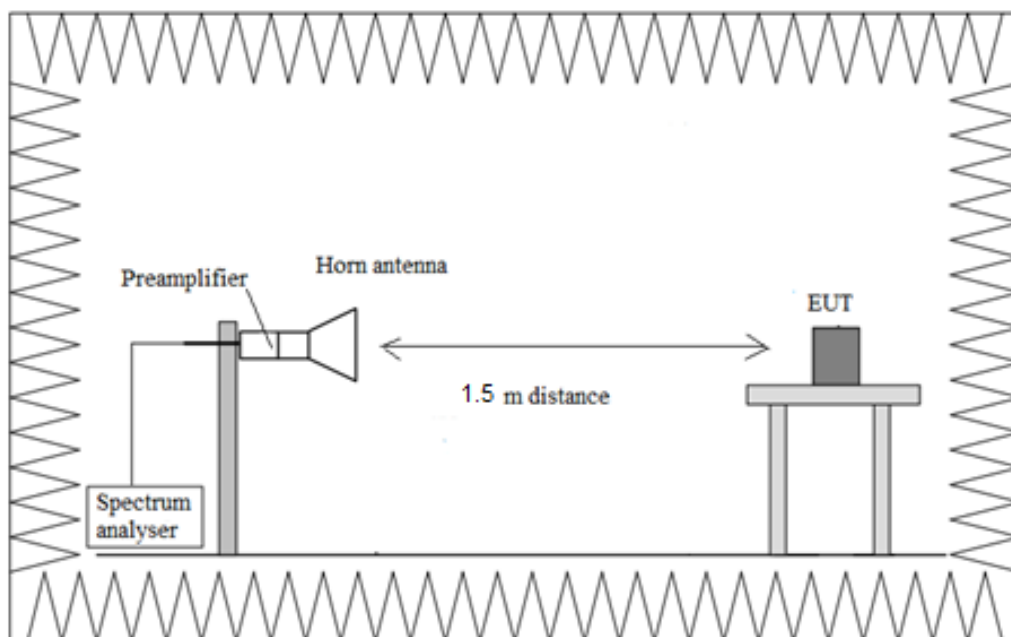
Radiated measurements setup from 30 MHz to 1 GHz:



Radiated measurements setup from 1 GHz to 17 GHz:



Radiated measurements setup $f > 17$ GHz:



TEST CASES DETAILS

Occupied Channel Bandwidth 99%

Results

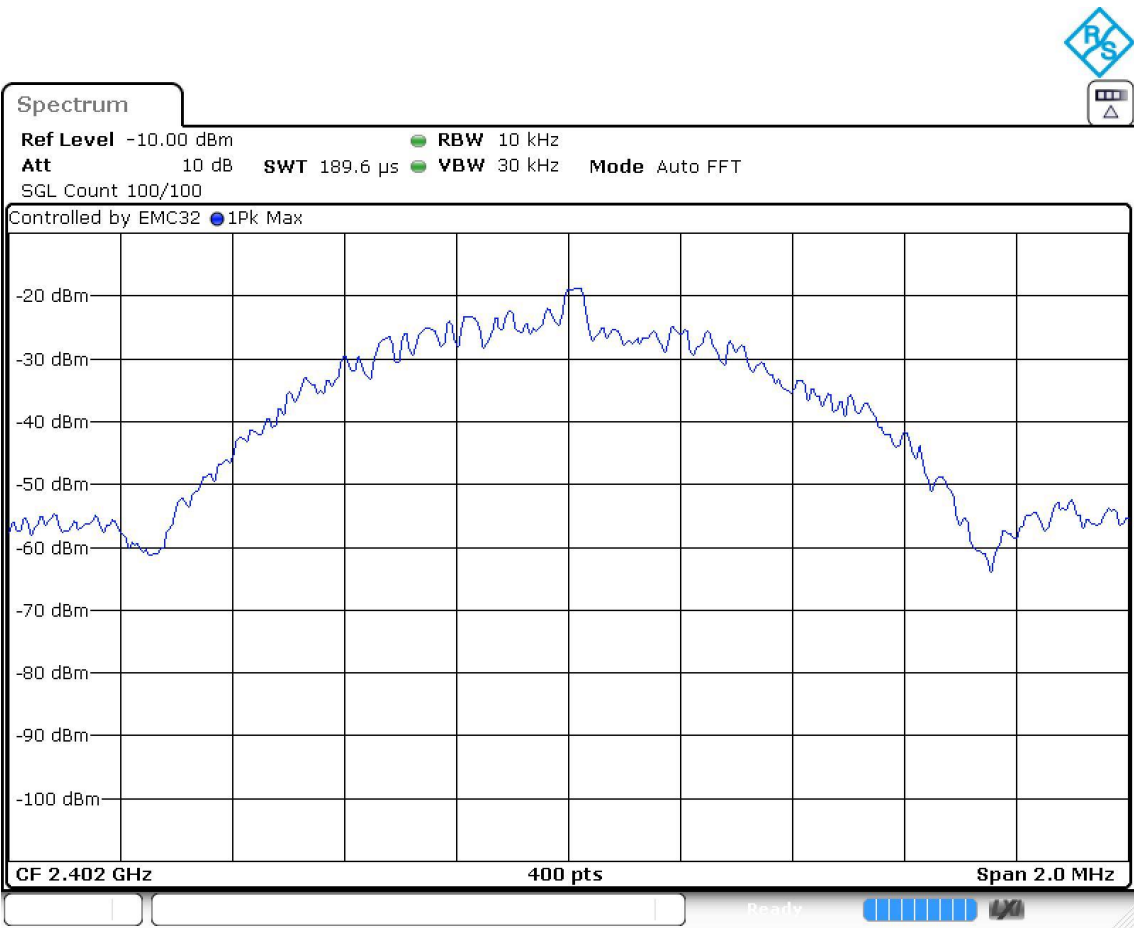
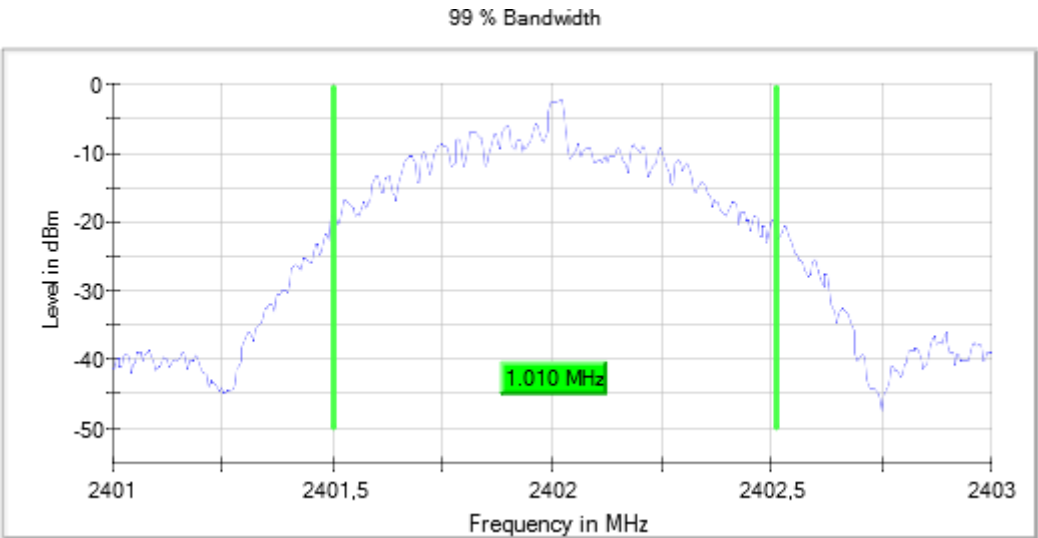
Modulation: BTLE 4.2 (GFSK 1 Mbit/s)

Freq (MHz)	Occ Ch BW (MHz)
2402.00000	1.010
2440.00000	1.010
2480.00000	1.010

Attachments

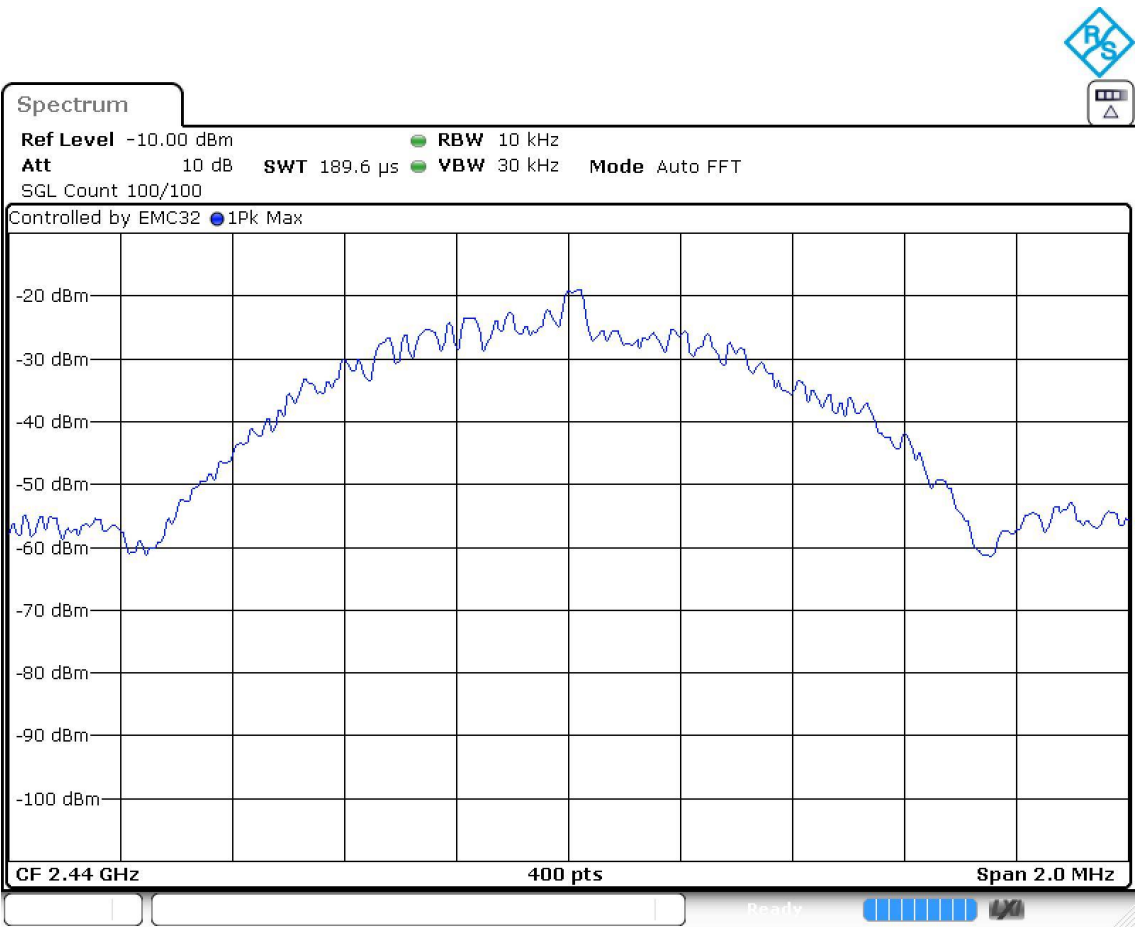
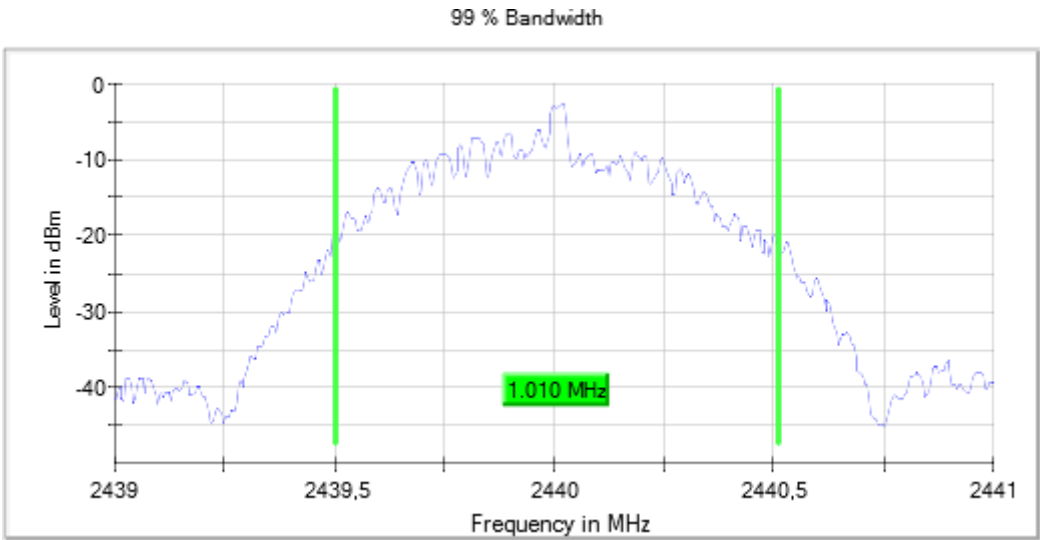
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2402.00000
Number of Transmission Chains = 1 Active Port = 1

Plots:



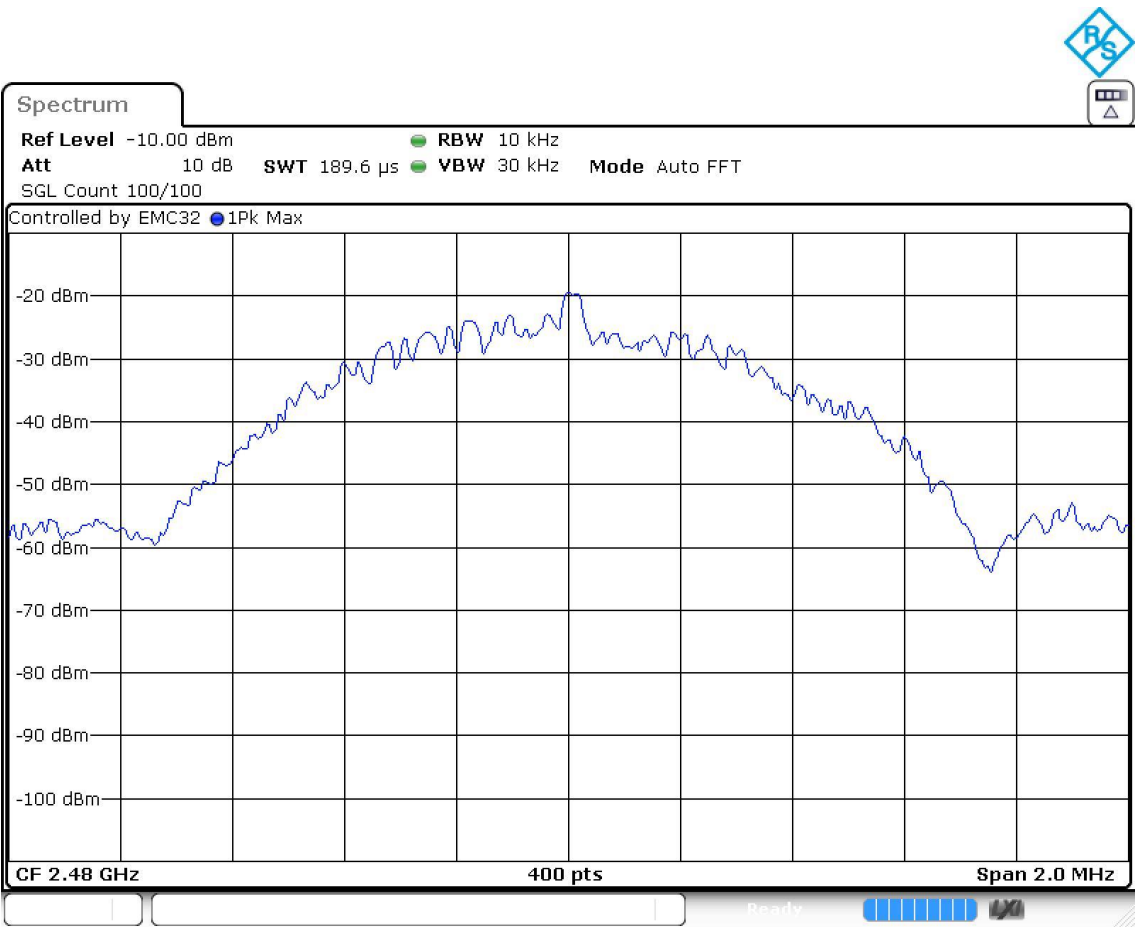
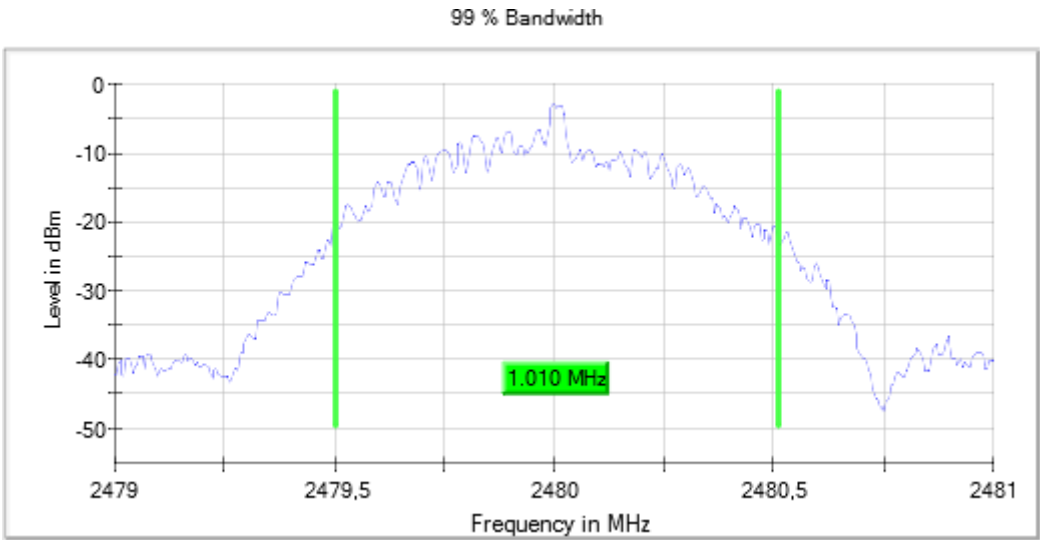
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2440.00000
Number of Transmission Chains = 1 Active Port = 1

Plots:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2480.00000
Number of Transmission Chains = 1 Active Port = 1

Plots:



RSS-247 5.2 (a) / FCC 15.247 (a) (2) 6 dB Bandwidth

Limits

The minimum 6 dB bandwidth shall be at least 500 kHz.

Results

Modulation: BTLE 4.2 (GFSK 1 Mbit/s)

Freq (MHz)	6 dB Bandwidth (MHz)
2402.00000	0.693
2440.00000	0.693
2480.00000	0.693

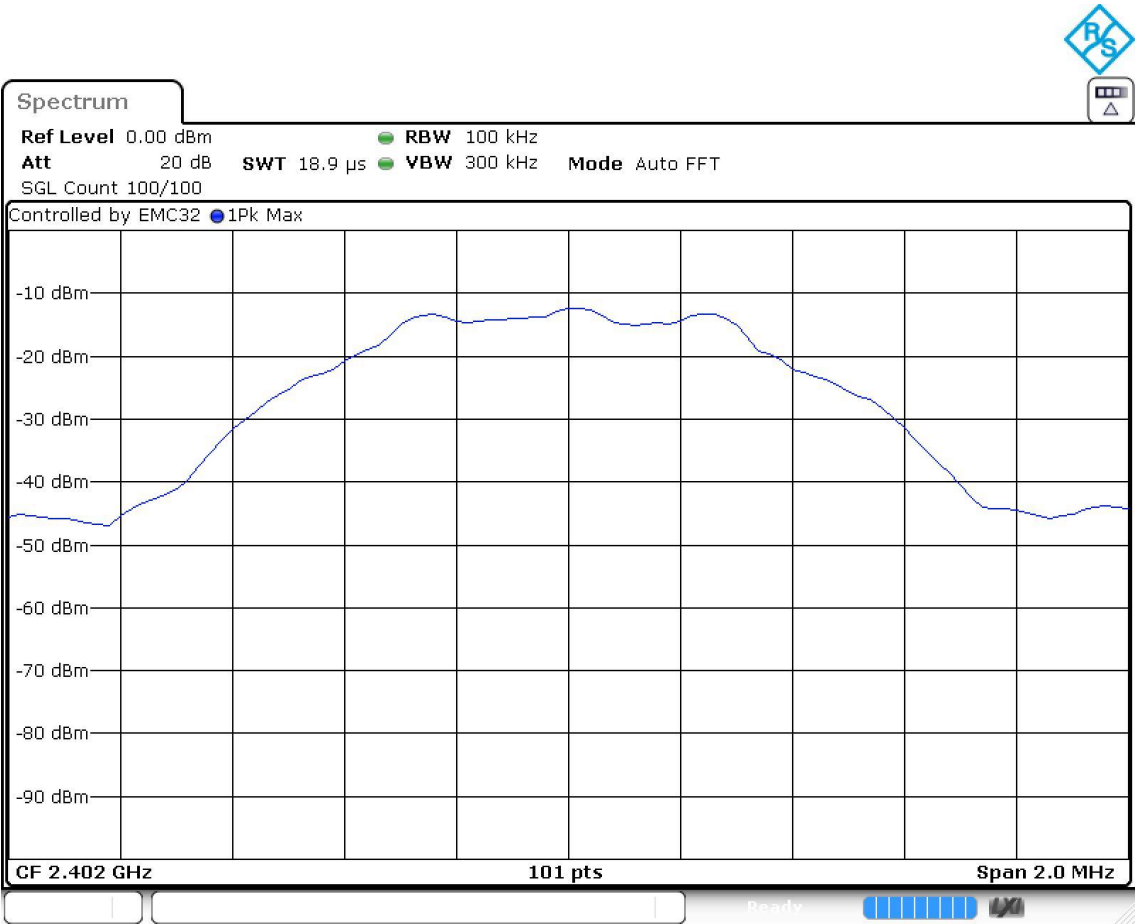
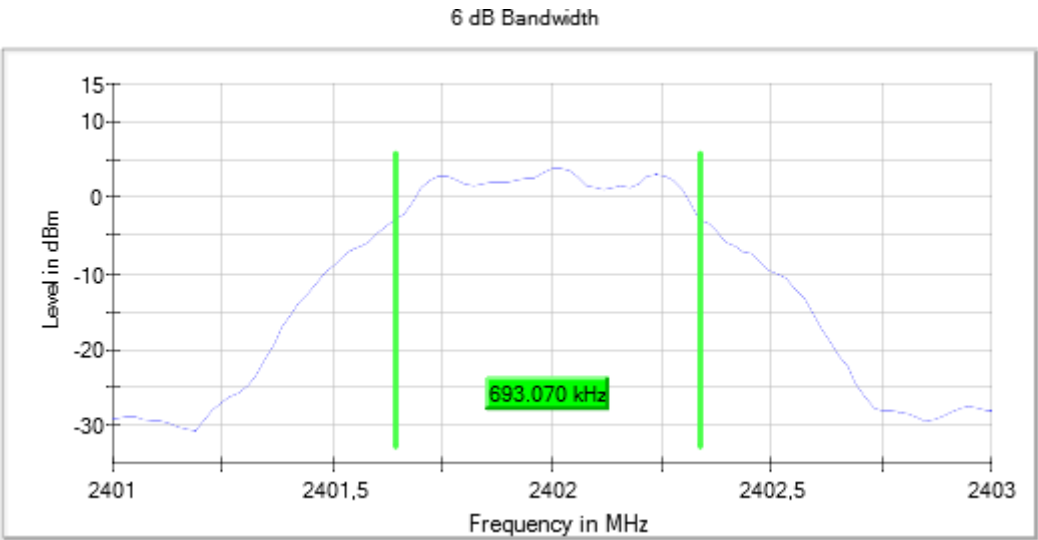
Verdict

Pass

Attachments

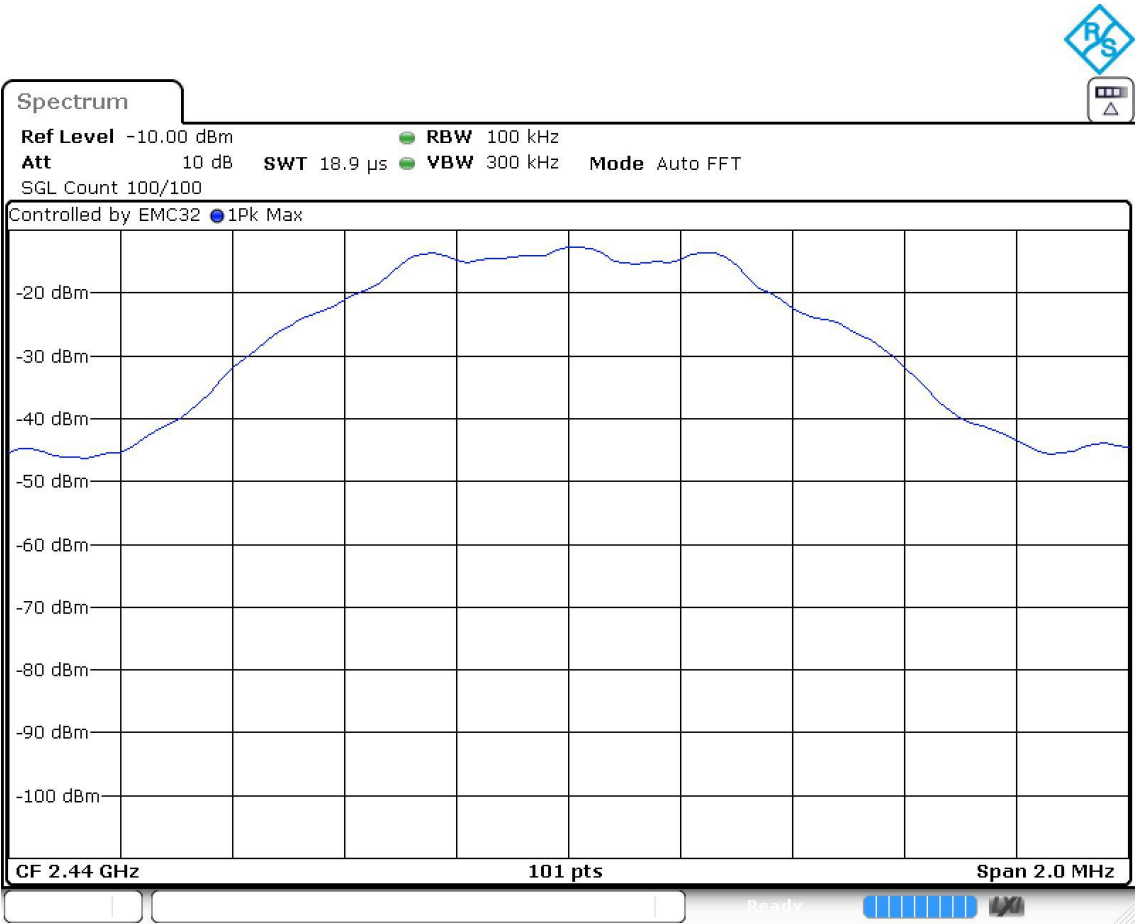
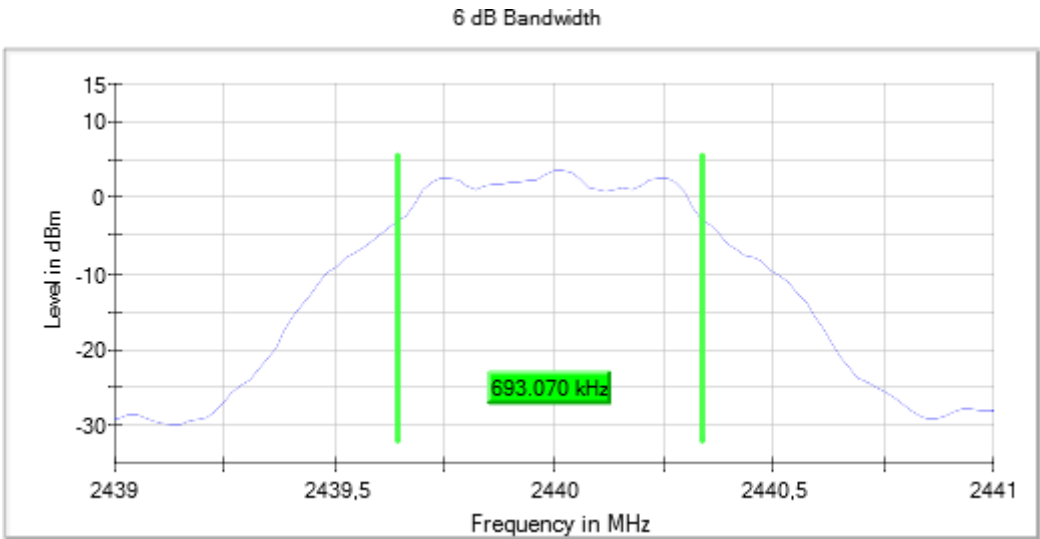
Bandwidth MHz = 1 Modulation = BTLE 4.2 (GFSK 1 Mbit/s)
Frequency MHz = 2402.00000 Number of Transmission Chains = 1
Active Port = 1

Plots:



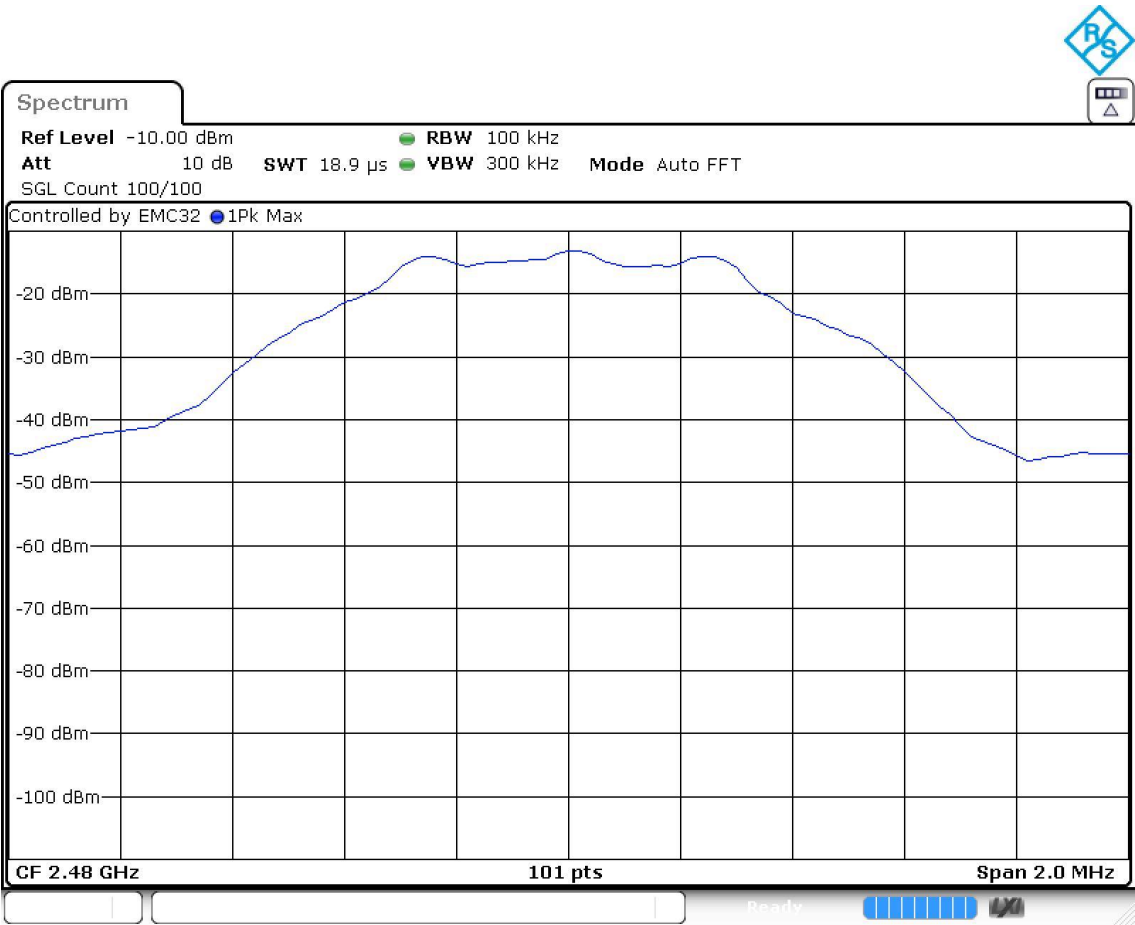
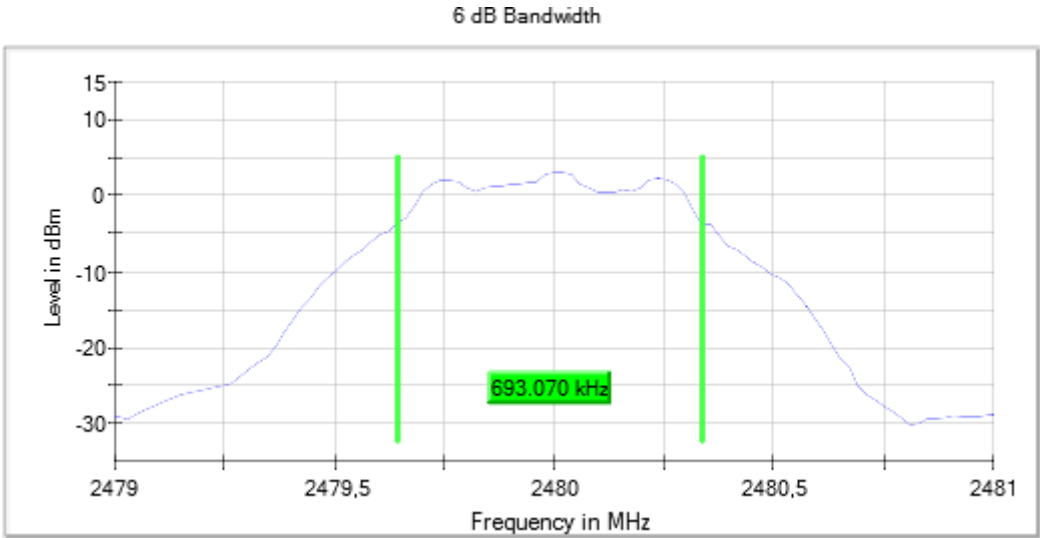
Bandwidth MHz = 1 Modulation = BTLE 4.2 (GFSK 1 Mbit/s)
Frequency MHz = 2440.00000 Number of Transmission Chains = 1
Active Port = 1

Plots:



Bandwidth MHz = 1 Modulation = BTLE 4.2 (GFSK 1 Mbit/s)
Frequency MHz = 2480.00000 Number of Transmission Chains = 1
Active Port = 1

Plots:



RSS-247 5.2 (b) / FCC 15.247 (e) Power spectral density

Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Results

Modulation: BTLE 4.2 (GFSK 1 Mbit/s)

Freq (MHz)	Measured Freq (MHz)	PSD (dBm)
2402.00000	2402.0125	-11.84
2440.00000	2440.0125	-11.60
2480.00000	2479.9975	-11.74

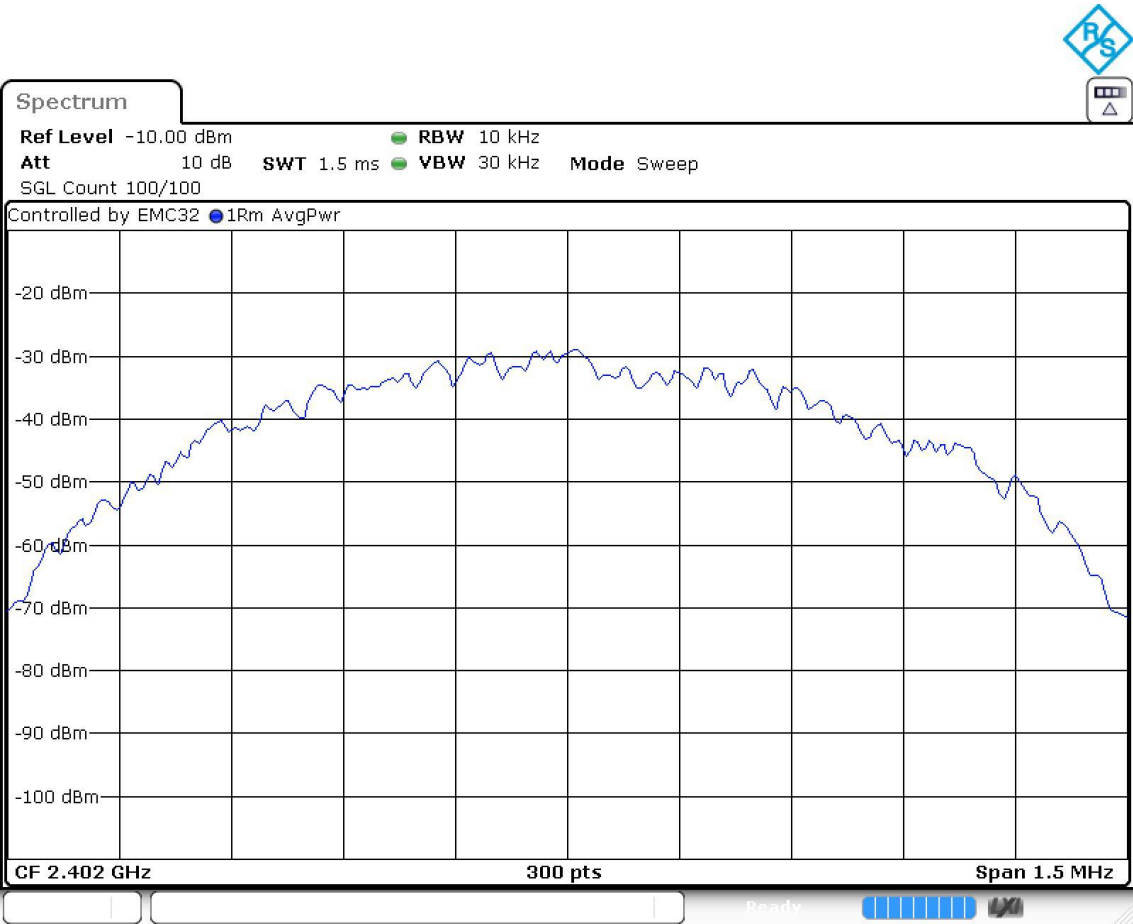
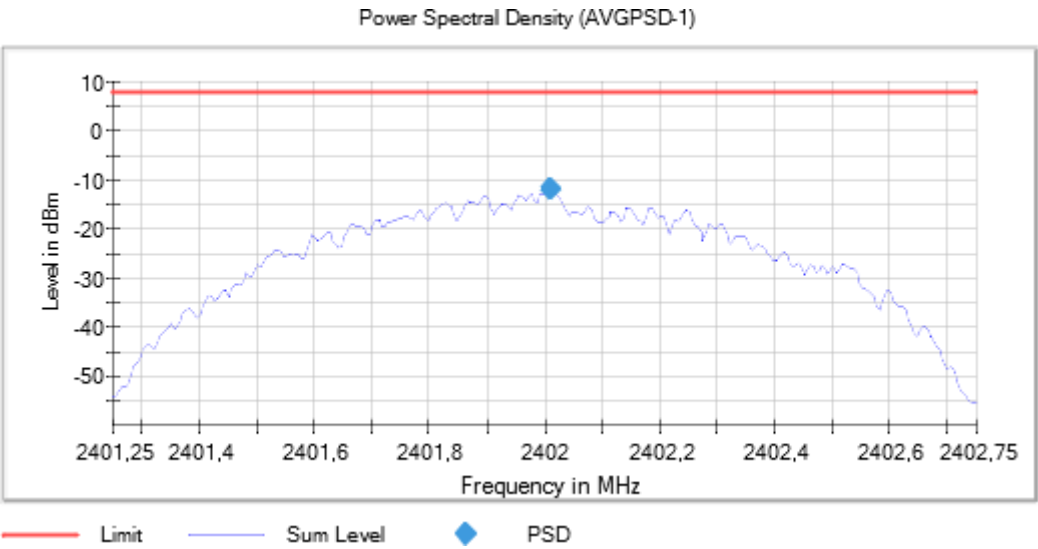
Verdict

Pass

Attachments

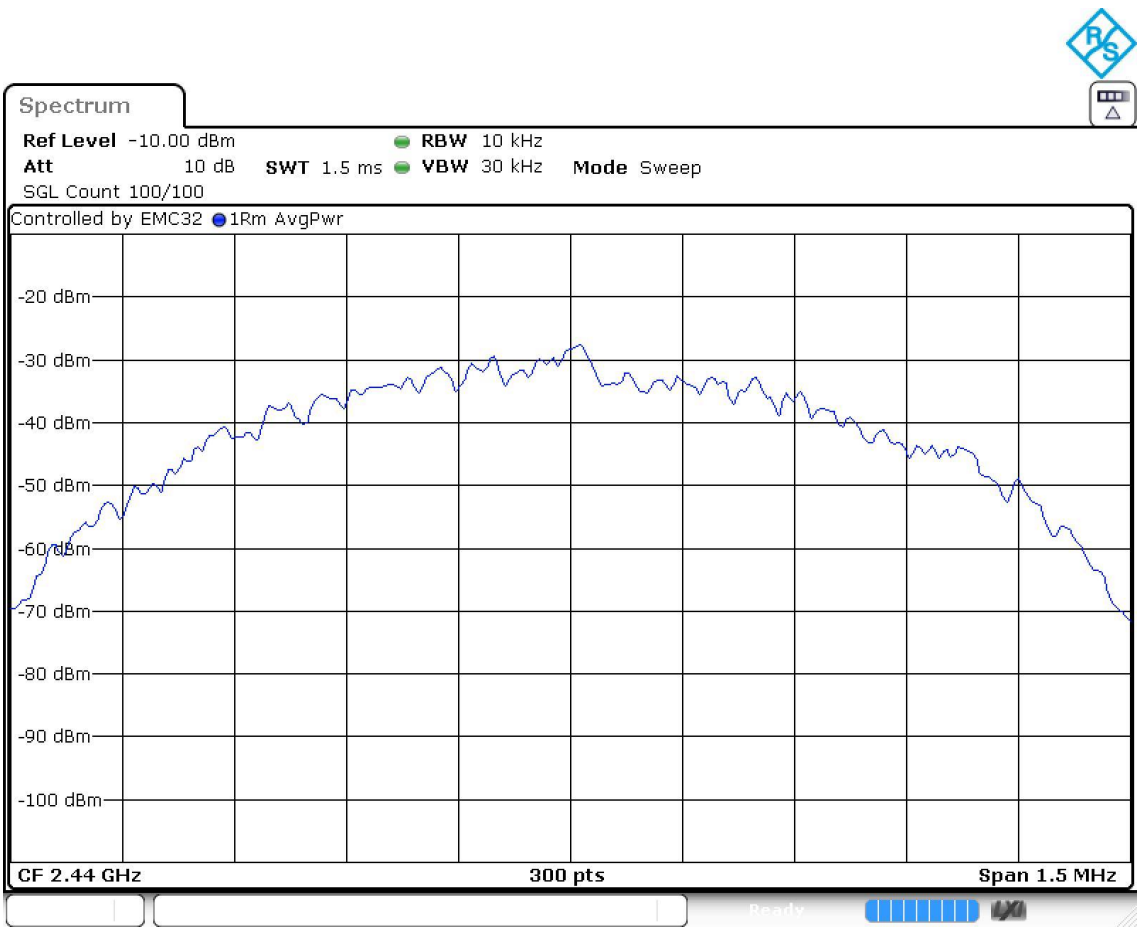
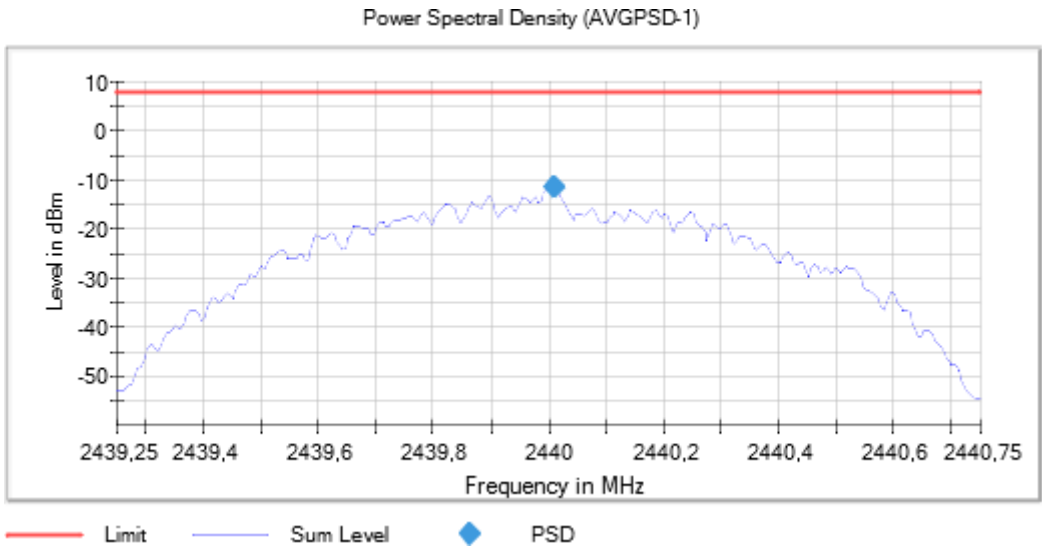
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2402.00000
Number of Transmission Chains = 1 Active Port = 1

Plots:



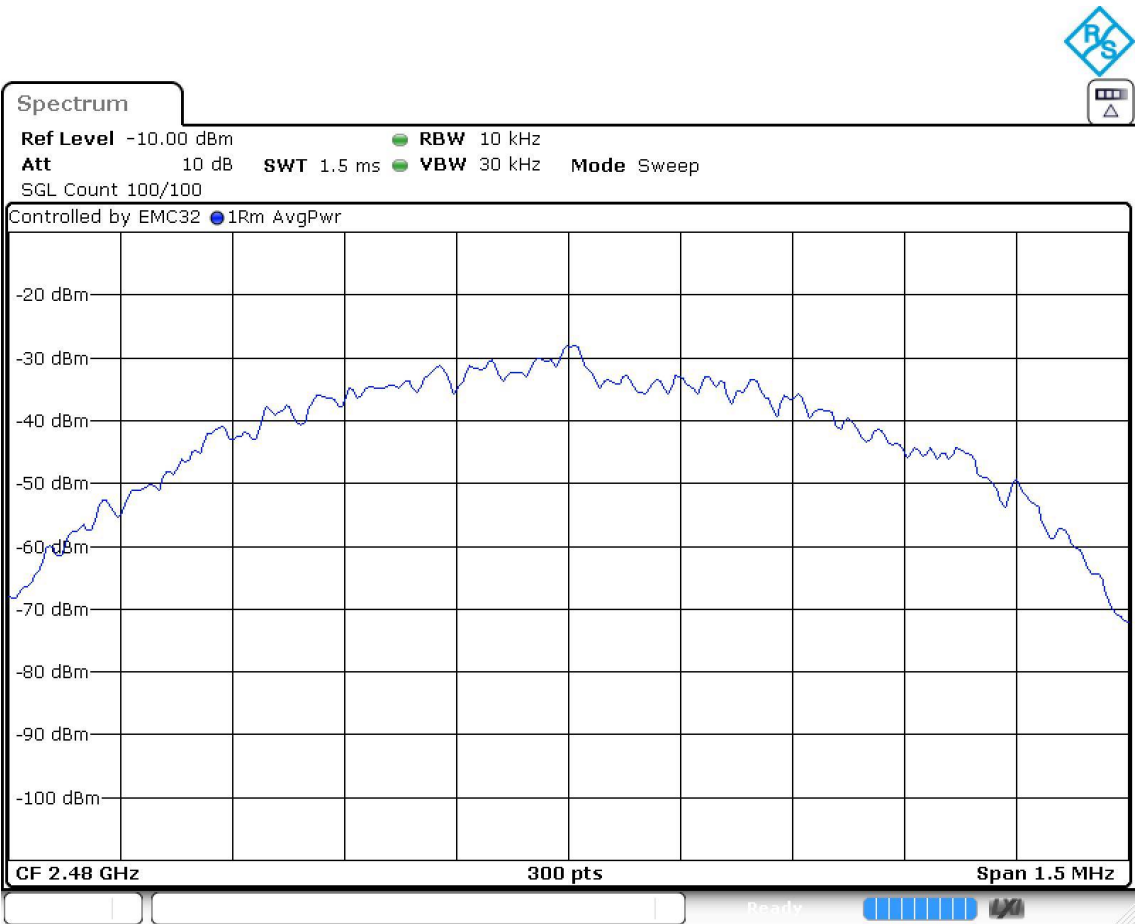
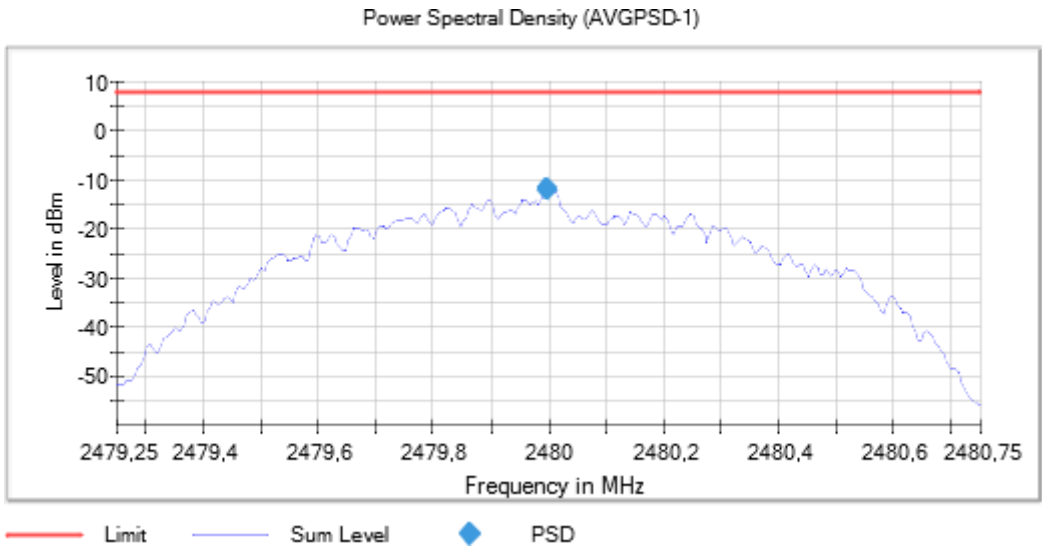
Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2440.00000
Number of Transmission Chains = 1 Active Port = 1

Plots:



Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2480.00000
Number of Transmission Chains = 1 Active Port = 1

Plots:



RSS-247 5.4 (d) / FCC 15.247 (b) (1) Maximum Average Conducted output Power

Limits

For systems using digital modulation in the 2400-2483.5 MHz band: 1 watt (30 dBm).

The e.i.r.p. shall not exceed 4 W (36 dBm) (RSS-247).

Results

The maximum average conducted output power level in the fundamental emission was measured according to clause 11.9.2.3.2 "Method AVGPM-G" of ANSI C.63.10-2013.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power.

Maximum Declared Antenna Gain: +0.5dBi

The maximum directional gain of the antenna is less than 6 dBi and therefore the maximum output power is not required to be reduced from the stated values.

Modulation: BTLE 4.2 (GFSK 1 Mbit/s)

Freq (MHz)	Average Conducted Output Power (dBm)	Maximum EIRP Power (dBm)
2402.00000	3.58	4.08
2440.00000	3.22	3.72
2480.00000	2.73	3.23

Verdict

Pass

RSS-247 5.5 / FCC 15.247 (d) Band-edge emissions compliance (Transmitter)

Limits

In any 100 kHz bandwidths outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Modulation: BTLE 4.2 (GFSK 1 Mbit/s)

Results

Freq (MHz)	Inband Peak Level (dBm)	Measured Freq (MHz)	Level (dBm)	Limit (dBm)
2402.00000	3.473	2399.875000	-50.929	-26.527
		2399.675000	-51.123	
		2399.375000	-51.158	
		2373.625000	-51.171	
		2397.425000	-51.341	
		2373.575000	-51.389	
		2399.975000	-51.399	
		2397.375000	-51.426	
		2399.925000	-51.439	
		2398.325000	-51.526	
		2370.475000	-51.544	
		2399.325000	-51.693	
		2398.125000	-51.693	
		2342.975000	-51.700	
		2399.425000	-51.702	

Freq (MHz)	Inband Peak Level (dBm)	Measured Freq (MHz)	Level (dBm)	Limit (dBm)
2480.00000	2.682	2484.625000	-55.048	-27.318
		2484.575000	-55.059	
		2483.575000	-55.364	
		2483.525000	-55.692	
		2484.675000	-56.159	
		2483.625000	-56.350	
		2484.525000	-56.398	
		2484.475000	-56.447	
		2484.425000	-56.637	
		2484.725000	-56.740	
		2484.025000	-57.135	
		2484.775000	-57.179	
		2484.125000	-57.200	
		2484.375000	-57.277	
		2484.075000	-57.348	

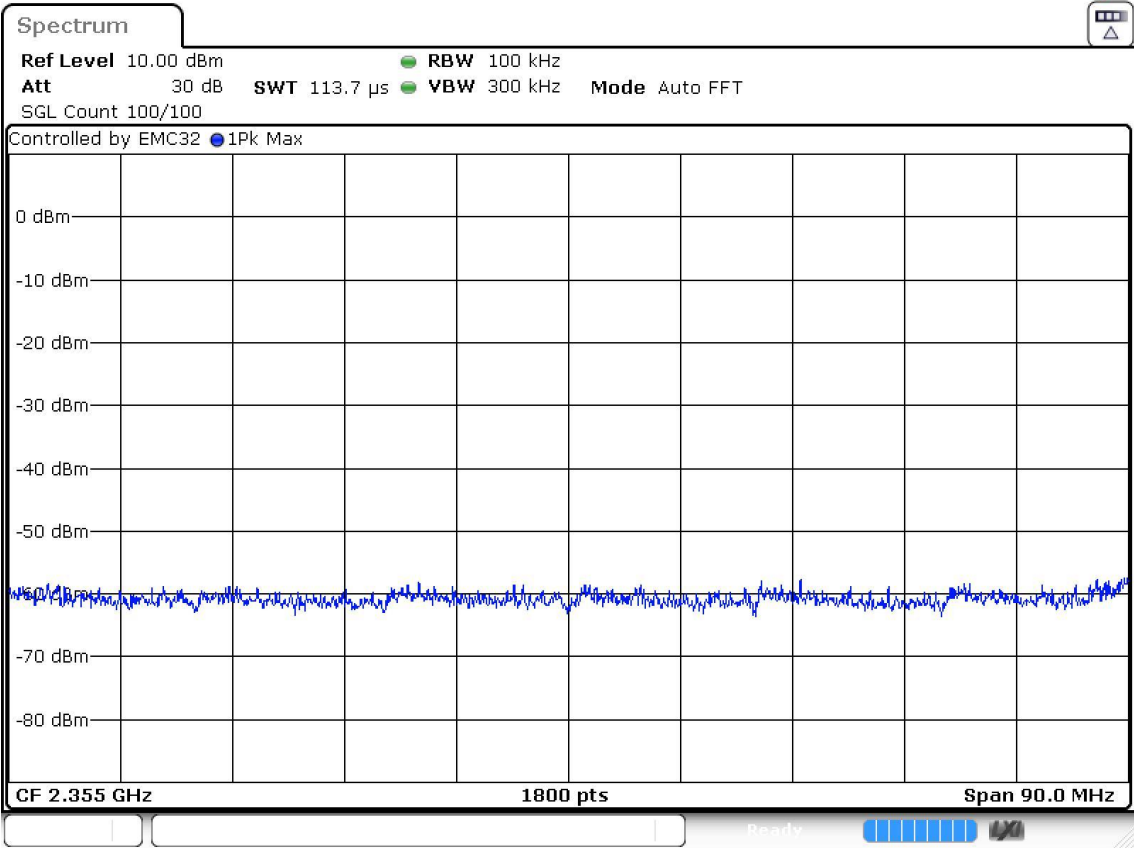
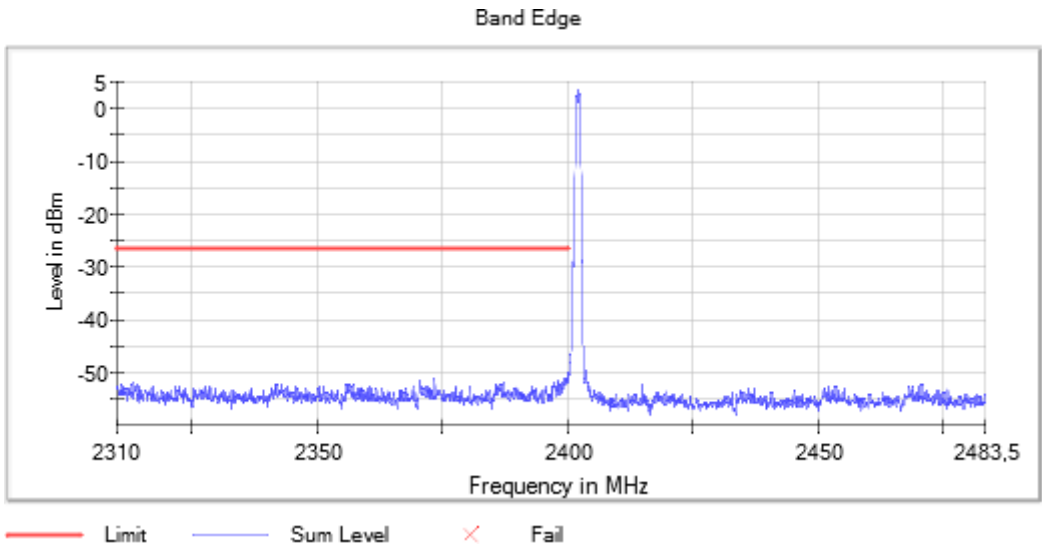
Verdict

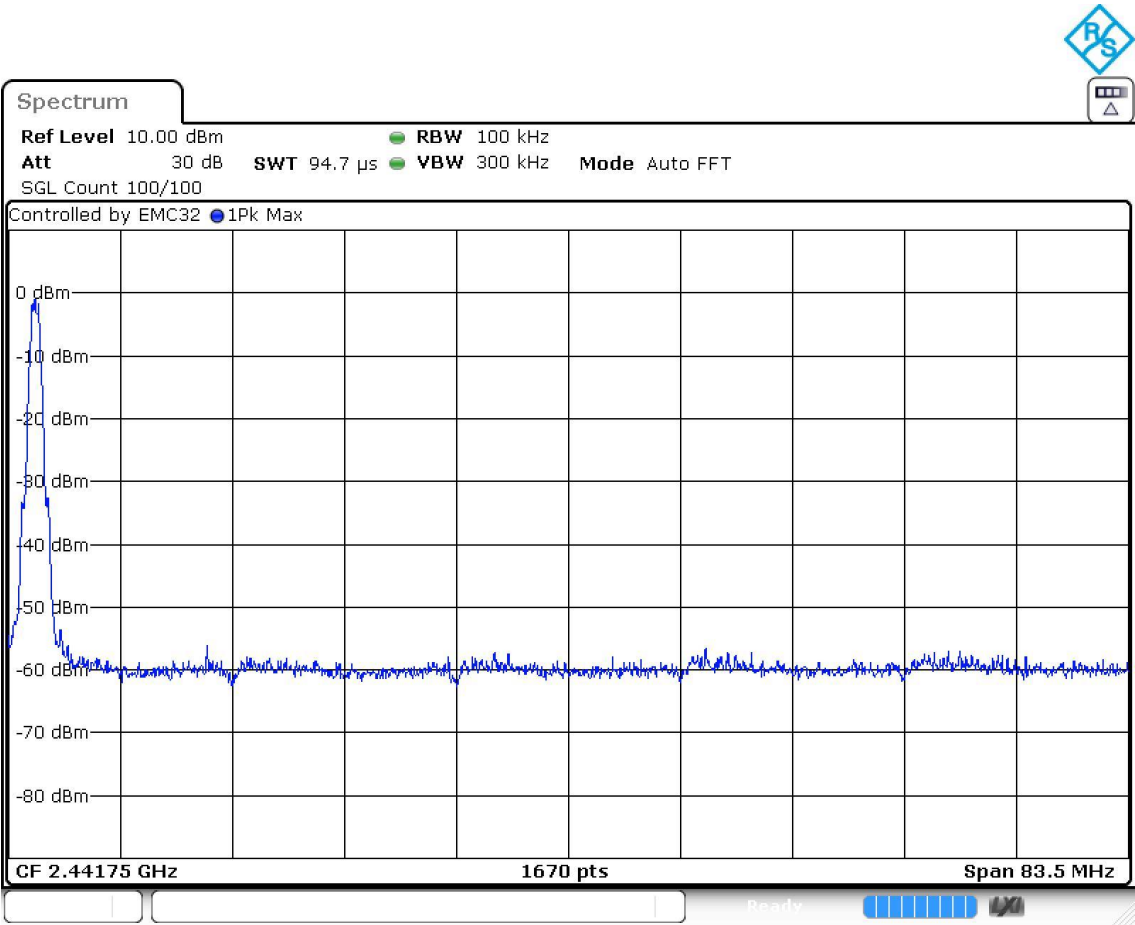
Pass

Attachments

Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2402.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

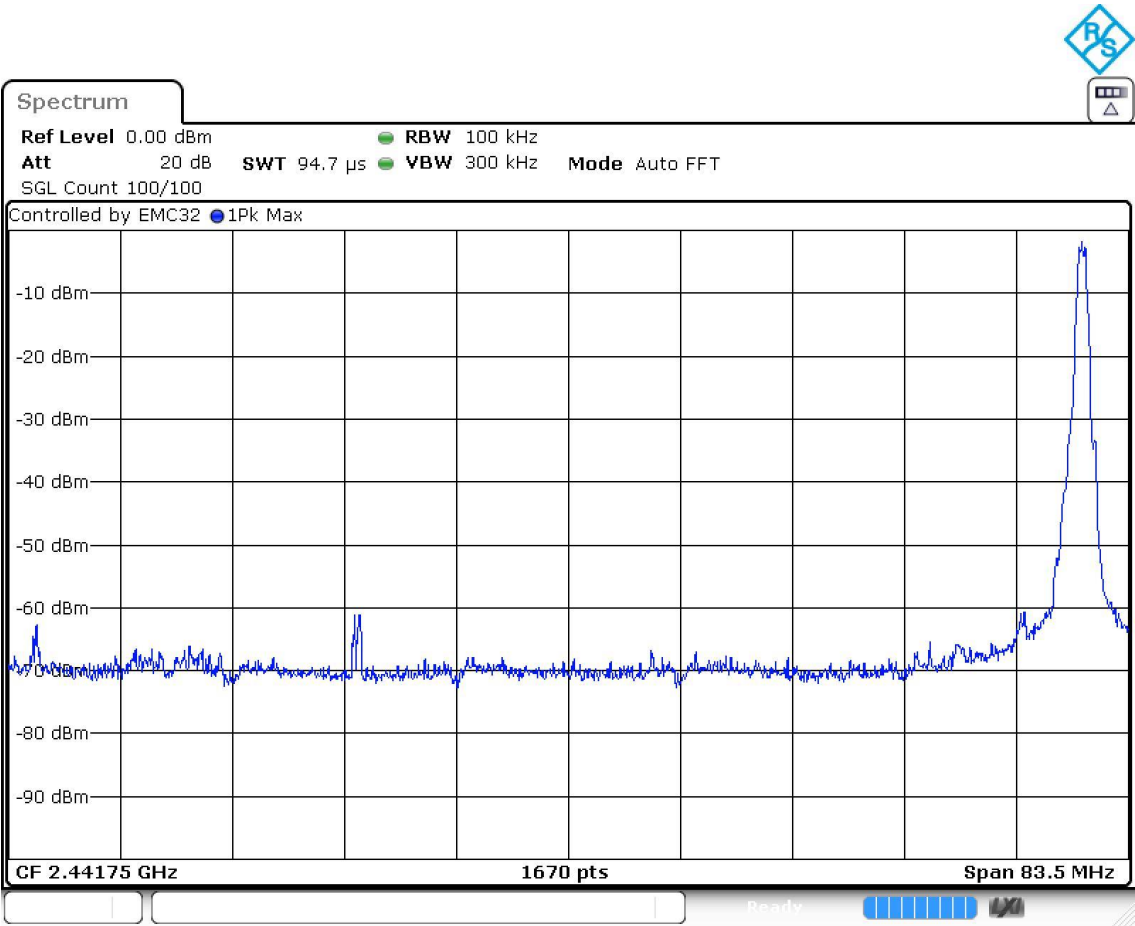
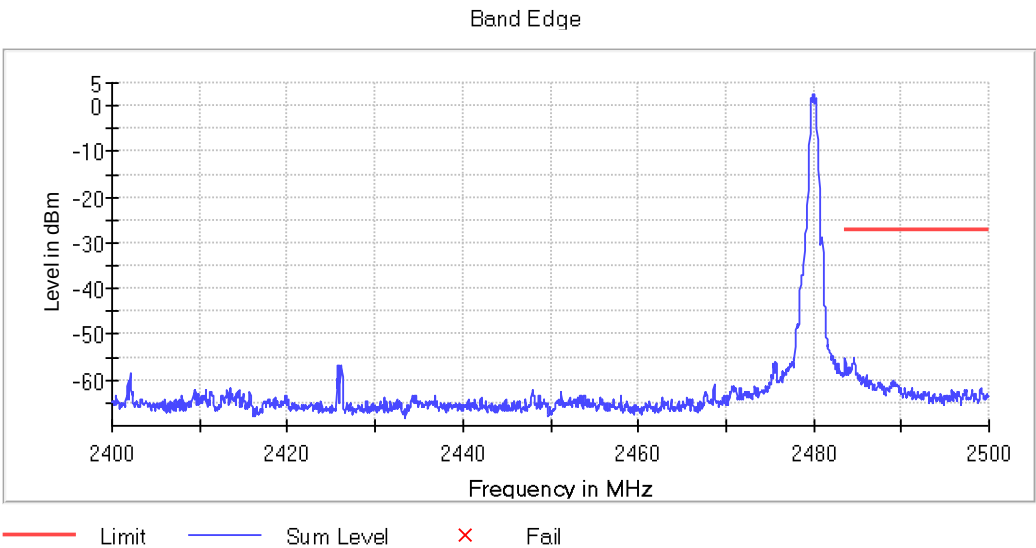
Plots:

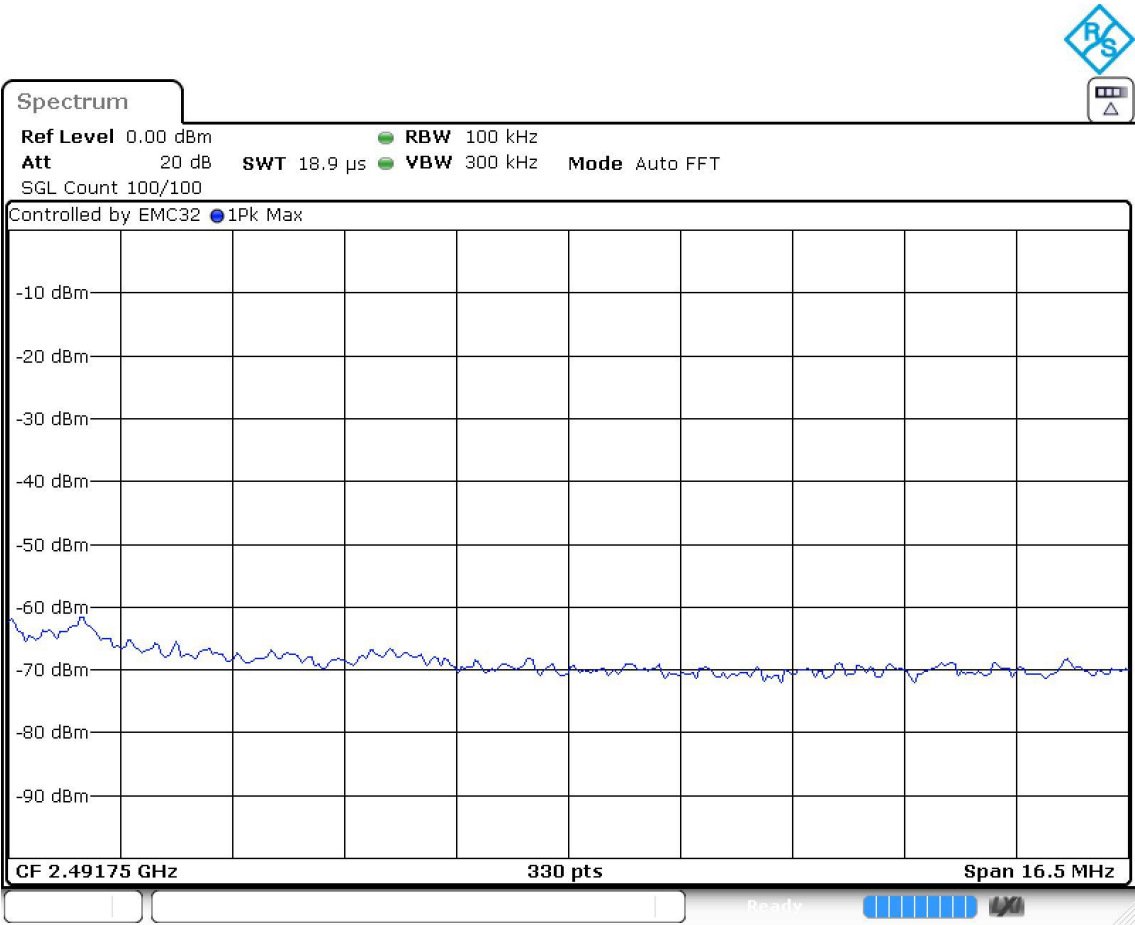




Equipment Type = Digital Transmission System (DTS) Bandwidth MHz = 1
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2480.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:





RSS-247 5.5 / FCC 15.247 (d) Emission limitations radiated (Transmitter)

Limits

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)/RSS-Gen):

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Field strength ($\text{dB}\mu\text{V/m}$)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

The emission limits shown in the above table are based on measurements employing 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.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

RSS-247: Attenuation below the general field strength limits specified in RSS-Gen is not required.

Results

Modulation: BTLE 4.2 (GFSK 1 Mbit/s)

Frequency range 30 MHz – 1 GHz:

The spurious signals detected do not depend on the operating channel.

No spurious frequencies detected at less than 20 dB below the limit.

Frequency range 1 GHz – 26 GHz:

The results below show the maximum measured levels in the 1 – 26 GHz range including the restricted bands 2.31 – 2.39 GHz and 2.4835 – 2.5 GHz.

Spurious frequencies with peak levels above the average limit (54 dBµV/m at 3 m) are measured with average detector for compliance checking with the average limit.

Freq Rng (GHz)	Freq (MHz)	Unwanted Freq (MHz)	Unwanted Lvl (dBµV/m)	Pol	Detector
[3, 17]	2402.00000	4803.48	61.33	H	PK
			45.55		AVG
		7206.30	55.04	H	PK
			56.07		AVG
	2440.00000	4880.34	64.54	H	PK
			48.58		AVG
		7319.14	57.07	H	PK
			35.46		AVG
		12201.36	58.69	H	PK
			31.47		AVG
	2480.00000	4959.44	67.50	H	PK
			44.20		AVG
		7439.26	59.58	H	PK
			39.01		AVG
		12401.28	57.59	H	PK
			27.17		AVG

Verdict

Pass

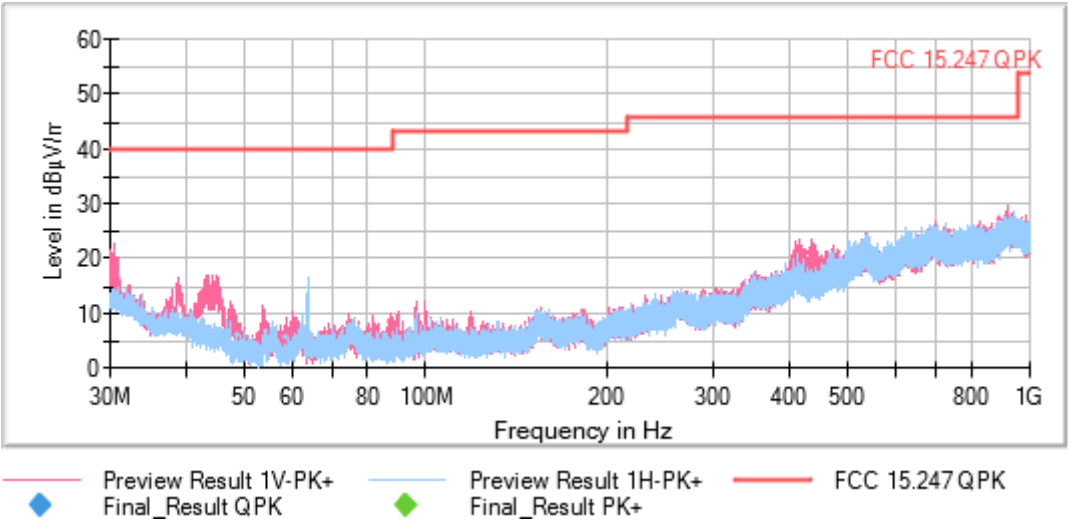
Attachments

Spectrum Analyzer Parameters:

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
Receiver: [ESR 7] 30 MHz - 1 GHz	9,7 kHz	PK+	100 kHz	1 s	0 dB
Receiver: [ESW 44] 1 GHz - 3 GHz	30,769 kHz	PK+ ; AVG	1 MHz	1 s	0 dB
Receiver: [FSW 50] 3 GHz - 17 GHz	140 kHz	PK+ ; AVG	1 MHz	1 s	0 dB
Receiver: [FSW 50] 17 GHz - 26 GHz	90 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

Frequency Range GHz = [0.03, 1] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = Not depend on the operating channel.
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

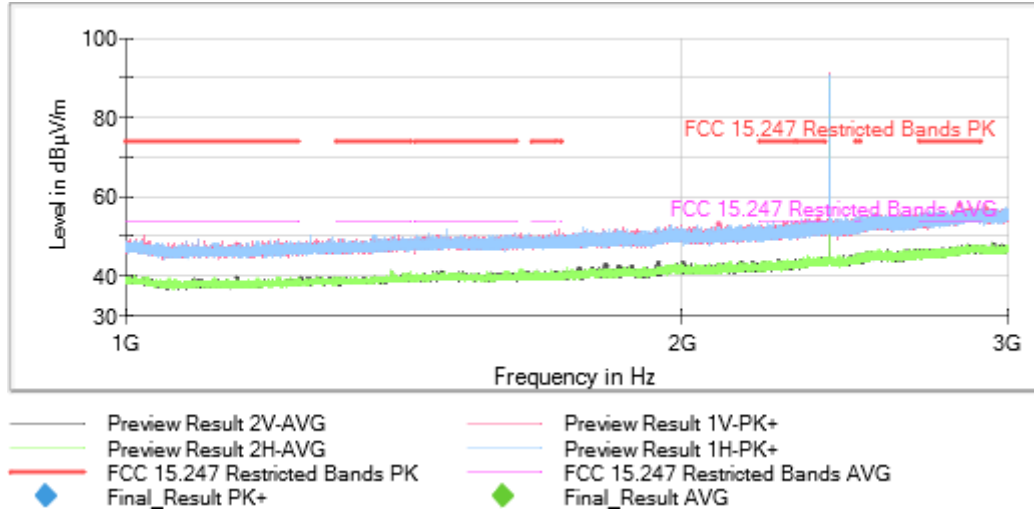
Plots:



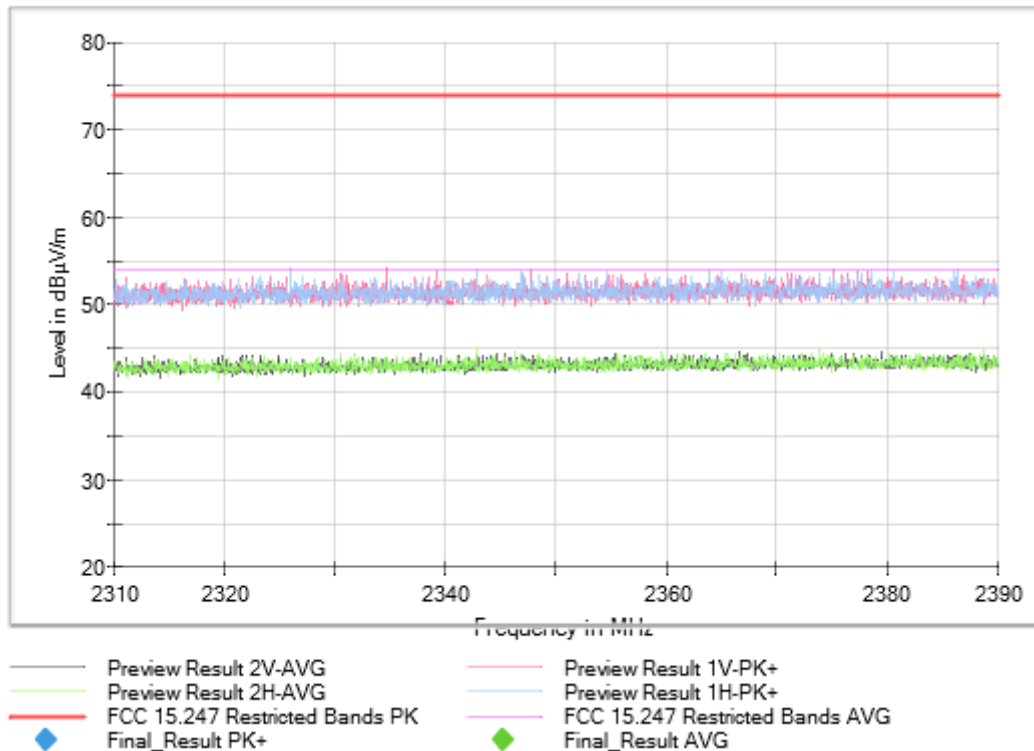
This plot is valid for all channels

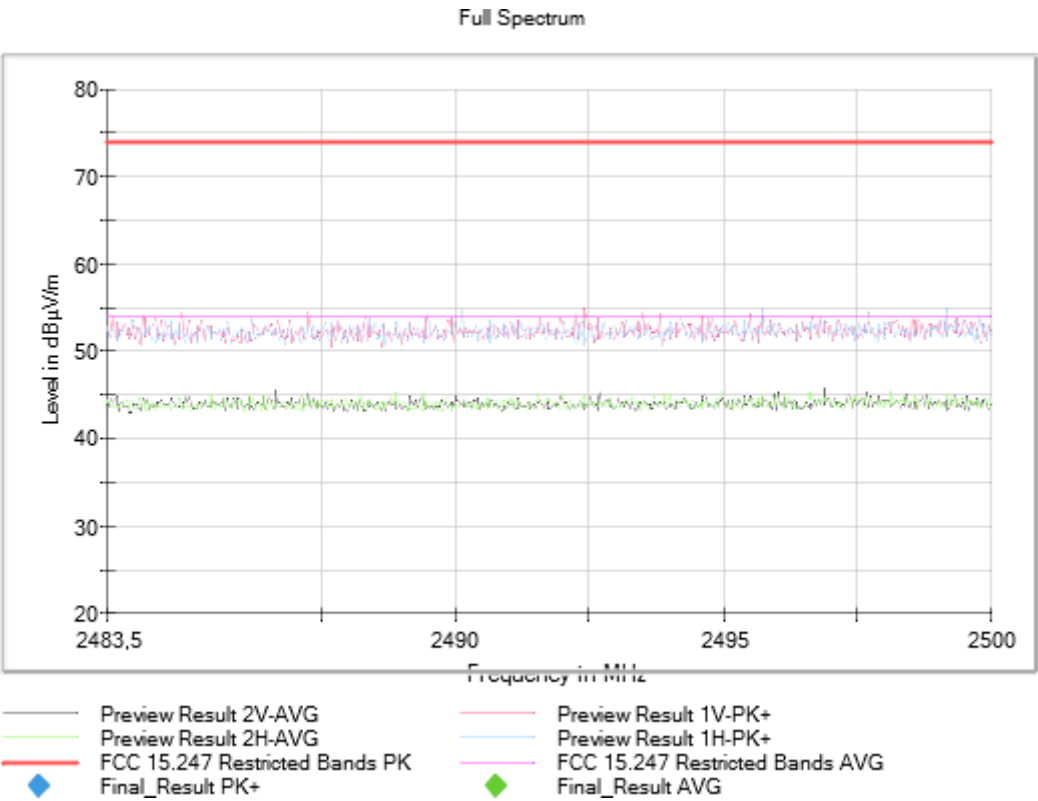
Frequency Range GHz = [1, 3] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2402.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:



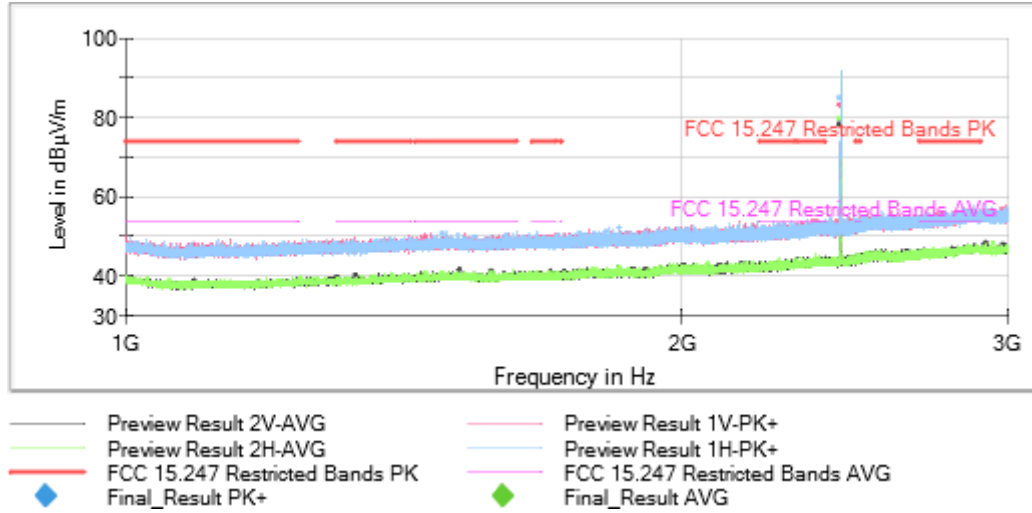
Full Spectrum



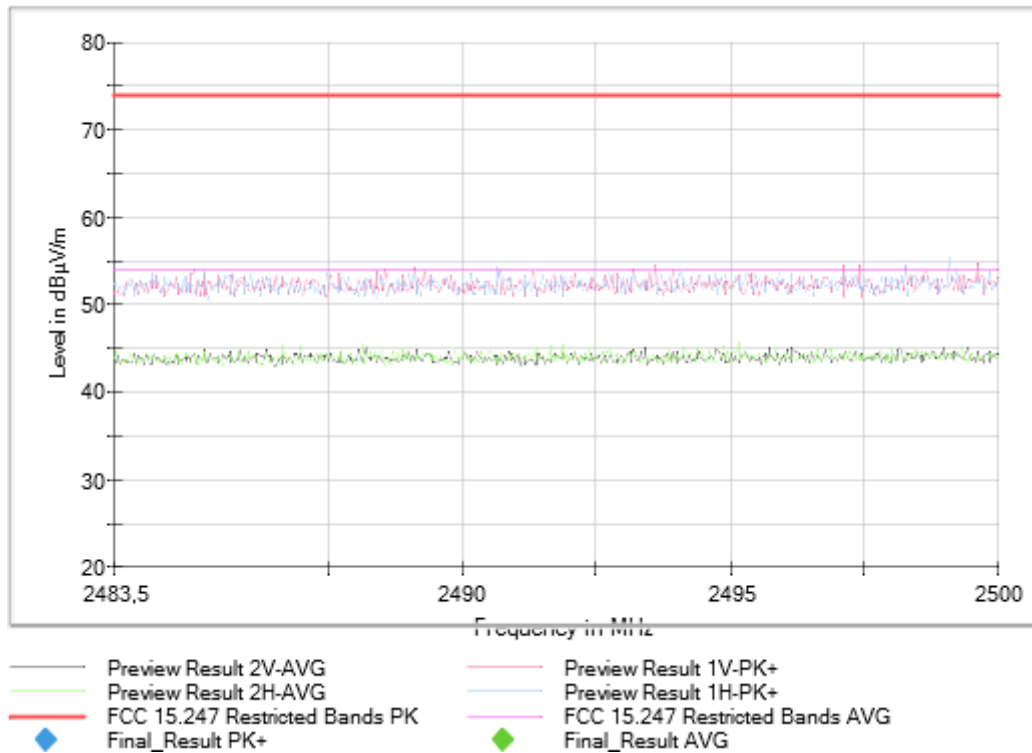


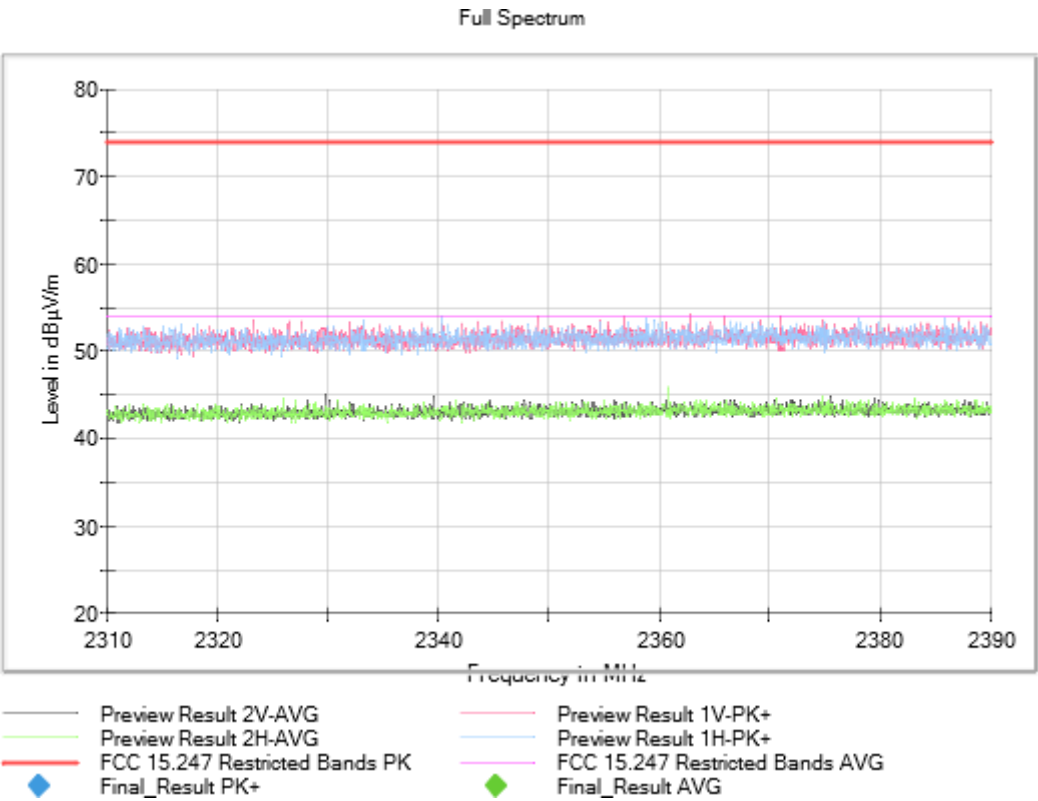
Frequency Range GHz = [1, 3] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2440.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:



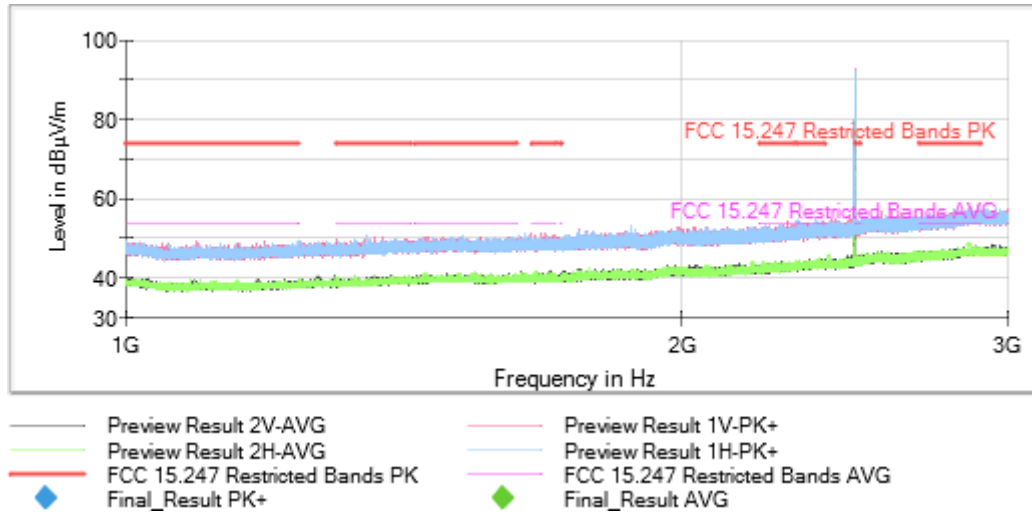
Full Spectrum



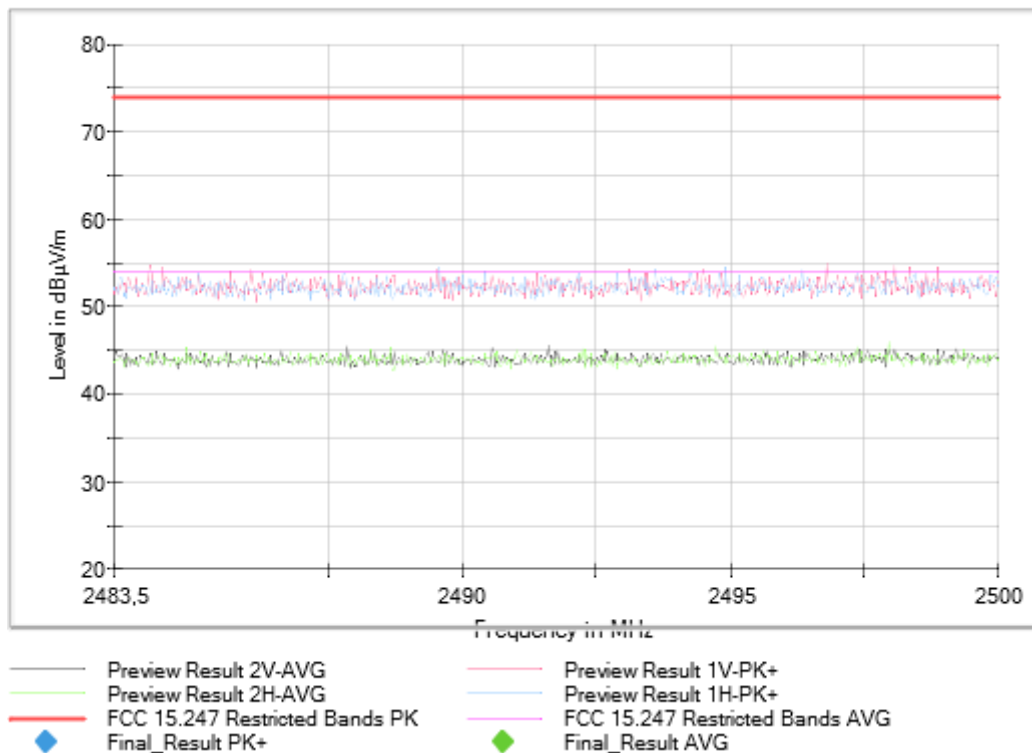


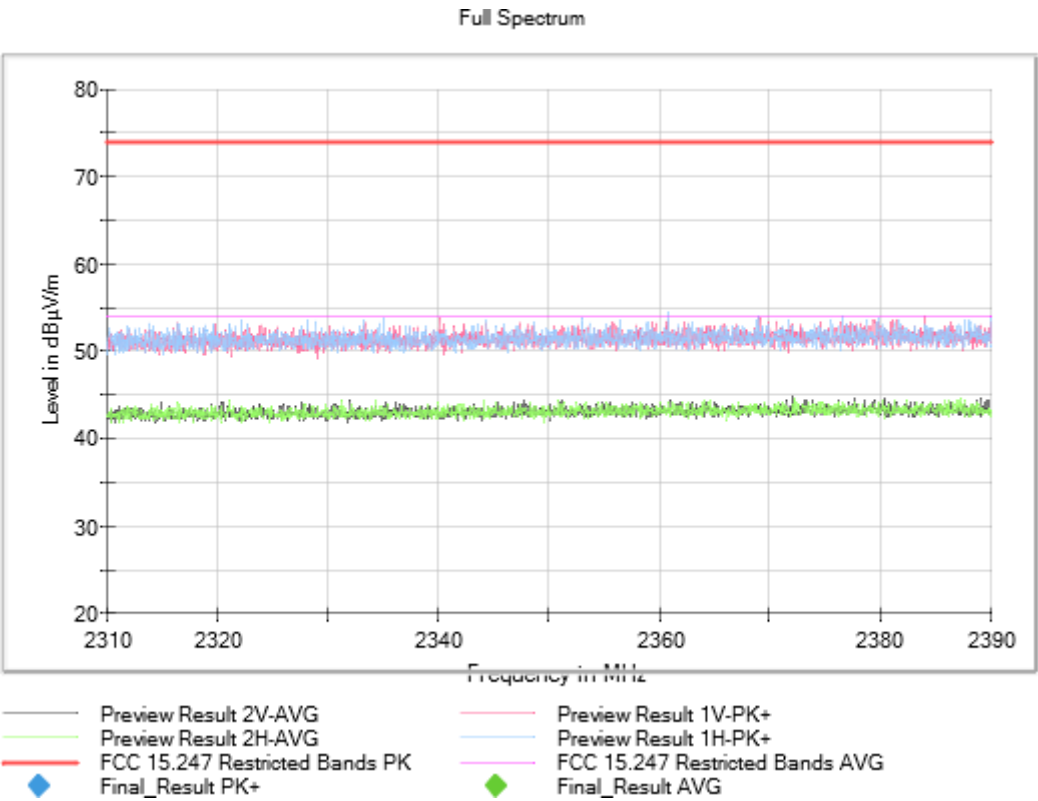
Frequency Range GHz = [1, 3] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2480.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:



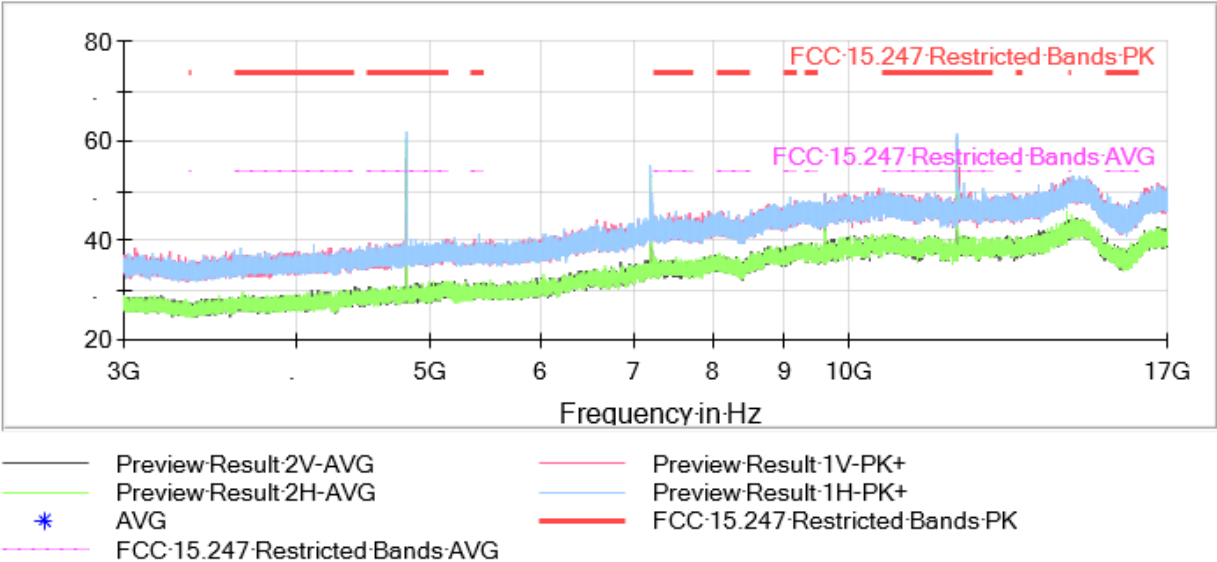
Full Spectrum





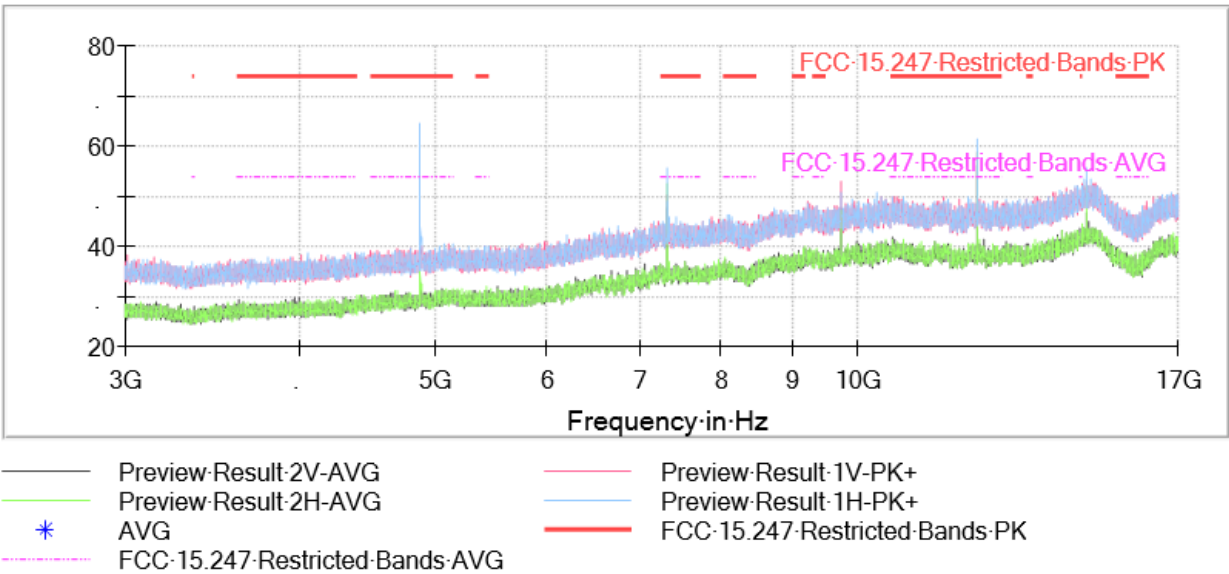
Frequency Range GHz = [3, 17] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2402.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:



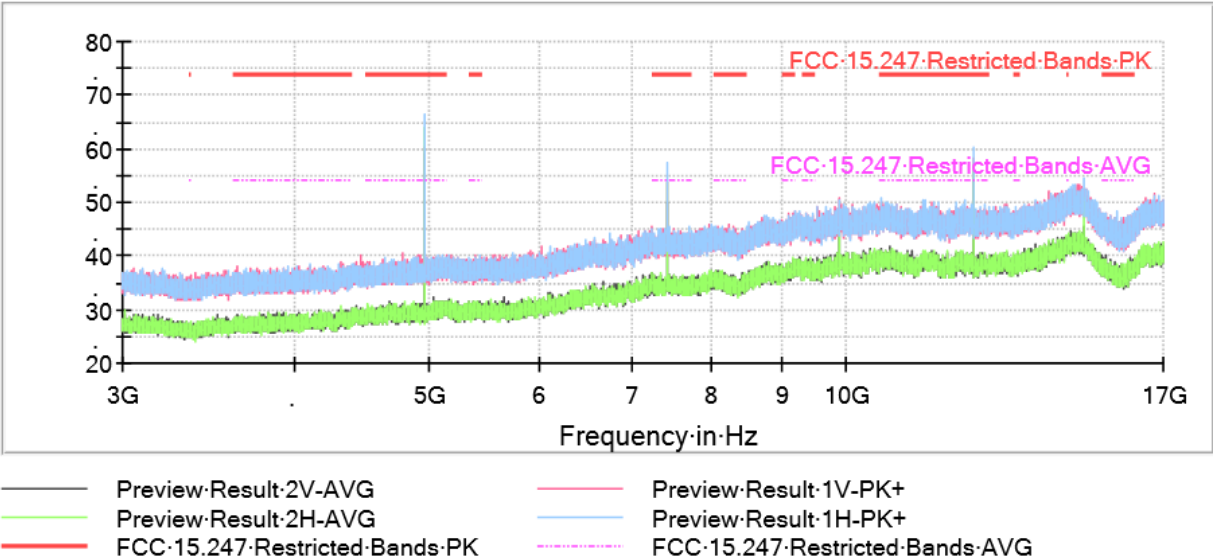
Frequency Range GHz = [3, 17] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2440.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:



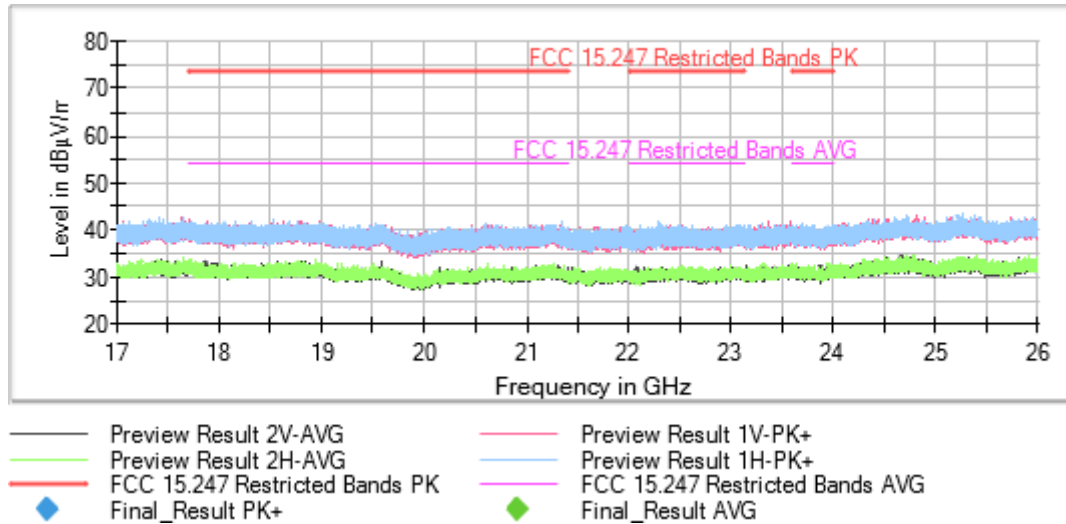
Frequency Range GHz = [3, 17] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2480.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:



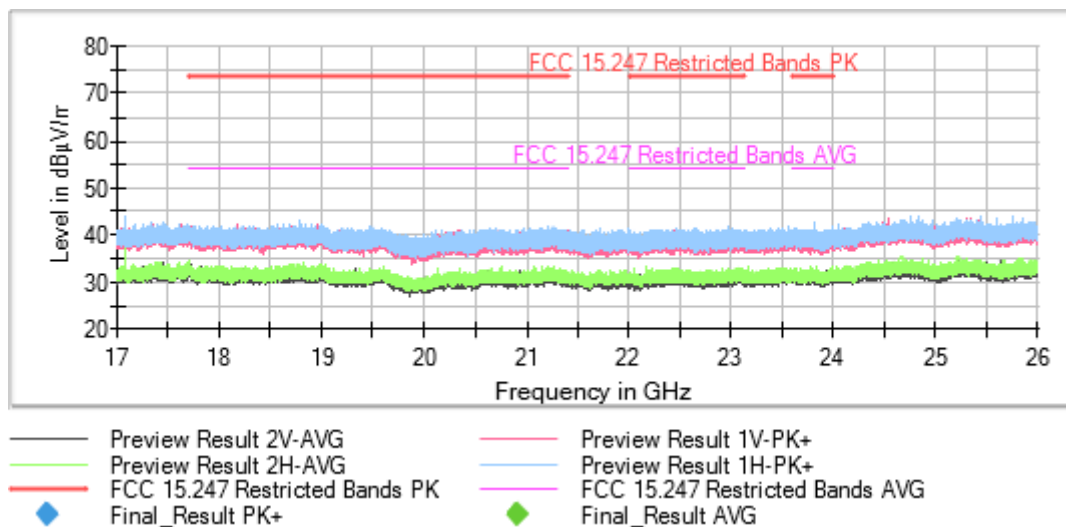
Frequency Range GHz = [17, 26] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2402.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:



Frequency Range GHz = [17, 26] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2440.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:



Frequency Range GHz = [17, 26] Equipment Type = Digital Transmission System (DTS)
Modulation = BTLE 4.2 (GFSK 1 Mbit/s) Frequency MHz = 2480.00000
Number of Transmission Chains = 1 Measurement Point = 1
Active Port = 1

Plots:

