



Regulatory Test Report

Prepared for Harman International Industries, Inc.

This report presents detailed information on

FPDM KM49 LHD

FPDM DT LHD

Prepared by

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Engineer II

Approved by

Jason Kanakry

General Manager

Issue date: 03/19/2024

Report No: J23225_TR1 v3

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1. Test Request Information

Test Request #:	7700236325
Test Requested By:	Pranav Patel Harman International Industries, Inc. 30001 Cabot Drive, Novi, MI 48377
Test item Description:	FPDM
Part Number:	FPDM KM49 LHD FPDM DT LHD
DUT Sample Number:	J23225#1, J23225#2, J23225#3, J23225#4
Hardware Version of DUT:	N/A
Software Version of DUT:	N/A
Component Category of DUT:	N/A
FCC ID:	2AHPN-BE2871
ISED ID:	6434C-BE2871
Type of Test:	FCC/ISED Certification
Test Method:	CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 2, ISED Canada RSS-Gen Issue 5 and ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02
Deviations from standard:	None
Approved Test Plan Number:	N/A
Test Plan Revision:	N/A
Date test Sample Received:	10-04-2023
Date Test Started:	10-23-2023
Date Test Finished:	03-15-2024

2. Test Laboratory Information

Location of Test Lab:	The radiated and conducted emissions test sites are located at Bureau Veritas 815 N. Opdyke Rd #100, Auburn Hills, MI 48326, Phone: +1-248-836-4700
Key Contact:	Jason Kanakry (General Manager) Jason.Kanakry@BureauVeritas.com Phone: +1-248-836-4747
Laboratory Accreditations:	BUREAU VERITAS CONSUMER PRODUCTS SERVICES, INC is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
ISO/IEC 17025:2017:	5678.01
FCC Test Site Number:	US1278 (242530)
IC Test Site Number:	US0229 (26240)

3. Statement of Conformity

RSS-GEN	RSS 247	Part 15	Comments
6.4		15.15(b)	There are no controls accessible to the user that varies the output power to operate in violation of the regulatory requirements.
		15.19	The label shown in the label exhibit.
		15.21	Information to the user shown in the instruction manual exhibit.
		15.27	No special accessories are required for compliance.
3.2		15.31	The EUT tested in accordance with the measurement standards in this section.
6.13.2		15.33	Frequency range investigated according to this section, unless noted in specific rule section under which the equipment operates.
6.13.1		15.35	The EUT emissions measured using the measurement detector and bandwidth specified in this section, unless noted in specific rule section under which the equipment operates.
6.8		15.203	EUT employs integrated PCB antenna FPDM KM49 LHD with -6.5dBi gain FPDM DT LHD with -7.7dBi gain
8.10		15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209 or RSS-Gen as applicable
8.8		15.207	N/A. EUT is vehicle battery powered only.

4. Conducted Testing

4.1 Test Summary

This test report supports an application for certification of a transmitter operating pursuant to:

CFR Title 47 FCC Part 15.247, ISED Canada RSS-247 Issue 2

The products are **FPDM KM49 LHD, FPDM DT LHD** frequency hopping spread spectrum transmitters that operates in the 2402 – 2480 MHz frequency range.

Details	Description
Frequency Range (MHz)	2402 – 2480
Supported Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Tested Modulation	GFSK (DH1) - Highest Emissions 8DPSK (3-DH1)
Number of Channels	79
Tested Channels	0,39,78
DUT Antenna Type	Integrated PCB antenna
Number of transmit chains	1
Equipment type	Frequency Hopping Spread Spectrum
Dwell Time	129ms
DUT Antenna Gain	FPDM KM49 LHD with -6.5dBi gain FPDM DT LHD with -7.7dBi gain <input checked="" type="checkbox"/> Provided by Customer with Gain Report <input type="checkbox"/> Not Provided by Customer
DUT Configuration	<ul style="list-style-type: none"> • TCP/IP SSH connection followed by shell commands are used to configure DUT. • Customer provided the commands to enable Bluetooth test mode, Packet modulation, channels, data rates etc.,

Note: All measurements reported in this test report are tested on worst case variant **FPDM KM49 LHD**

79 channels are provided for BT mode:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

Notes: The channels 0, 39 and 78 selected as representative test channels.

Test Results Summary

FPDM KM49 LHD

Test	Frequency (MHz)	DH1 Result	DH3 Result	DH5 Result	2-DH1 Result	2-DH3 Result	2-DH5 Result	3-DH1 Result	3-DH3 Result	3-DH5 Result
Hopping Frequencies	--- (hopping)	Pass	--	--	--	--	--	Pass	--	--
Band Edge High	--- (hopping)	Pass	--	--	--	--	--	Pass	--	--
Carrier Frequency Separation	2402.000 (hopping)	Pass	--	--	--	--	--	Pass	--	--
Carrier Frequency Separation	2480.000 (hopping)	Pass	--	--	--	--	--	Pass	--	--
Time of Channel Occupancy	2402.000 (hopping)	Pass	--	--	--	--	--	Pass	--	--
Time of Channel Occupancy	2441.000 (hopping)	Pass	--	--	--	--	--	Pass	--	--
Time of Channel Occupancy	2480.000 (hopping)	Pass	--	--	--	--	--	Pass	--	--
Emissions Bandwidth 20dB	2402.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Occupied Channel Bandwidth 99%	2402.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Band Edge Low	2402.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Peak Output Power	2402.000 (single)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Tx Spurious	2402.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Emissions Bandwidth 20dB	2441.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Occupied Channel Bandwidth 99%	2441.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Peak Output Power	2441.000 (single)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Tx Spurious	2441.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Emissions Bandwidth 20dB	2480.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Occupied Channel Bandwidth 99%	2480.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Band Edge High	2480.000 (single)	Pass	--	--	--	--	--	Pass	--	--
Peak Output Power	2480.000 (single)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Tx Spurious	2480.000 (single)	Pass	--	--	--	--	--	Pass	--	--

FPDM KM49 LHD

Test	Frequency (MHz)	DH1 Result	DH3 Result	DH5 Result	2-DH1 Result	2-DH3 Result	2-DH5 Result	3-DH1 Result	3-DH3 Result	3-DH5 Result
Peak Output Power	2402/2441/2480	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

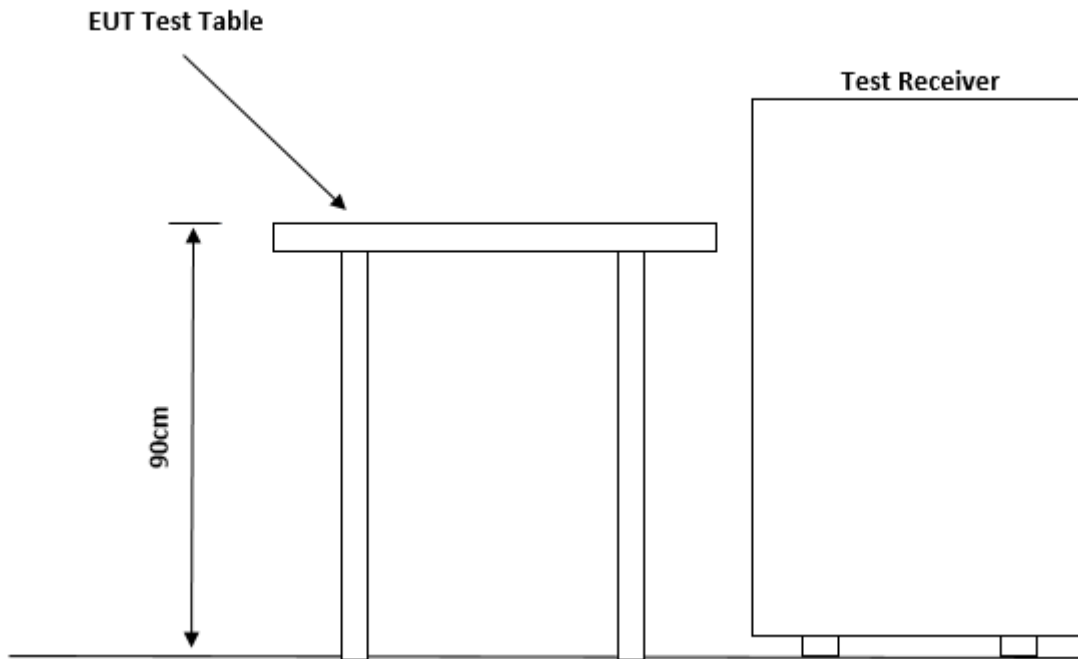
Test Item	Sample #	Result
FCC 15.247 Bluetooth Classic	J23225#1, J23225#2 J23225#3, J23225#4	Meets Requirement

We found that the product met the above requirements without modification and all Test samples received in good condition.

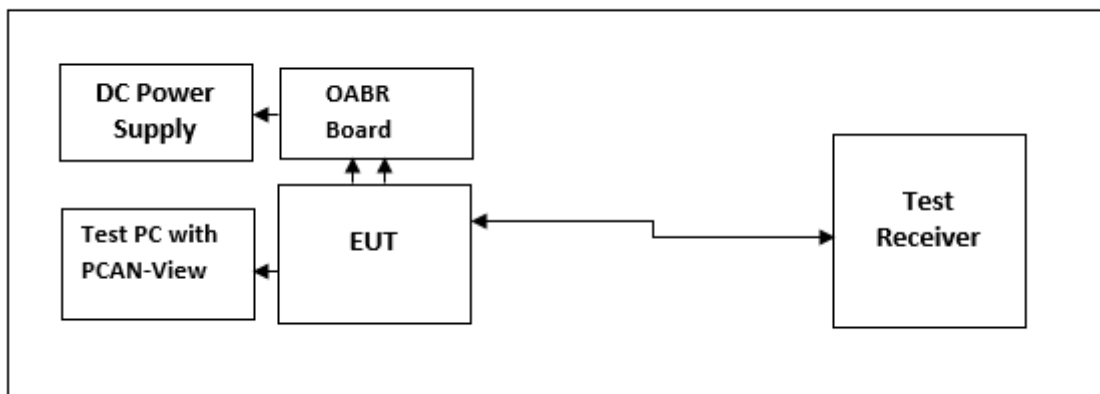
4.2 Test Setup

Conducted Test Site Description

The site is accommodated to test tabletop and floor standing test equipment.



TEST SETUP DIAGRAM



4.3 Test Equipment Used

ID #	Equipment	Manufacturer	Model #	Serial #	Cal Due
BVD0226	Spectrum Analyzer 10Hz-44GHz	Rohde & Schwarz	FSV3044	101018	4/14/2024
BVD0227	8 port switch unit for Wireless Test system	Rohde & Schwarz	OSP150	101100	11/24/2025
BVD0228	8 port switch unit for Wireless Test system	Rohde & Schwarz	OSP220	101632	11/14/2025
BVD0224	Signal Generator 100kHz-40GHz	Rohde & Schwarz	SMB100A	181741	4/15/2024
BVD0225	Signal Generator 100k-6GHz with GPS simulator	Rohde & Schwarz	SMW200A	107664	4/15/2024
BVD0250	Wireless Connectivity Tester 70M-6GHz	Rohde & Schwarz	CMW270	102113	4/15/2024
BVD0302	DC power supply 1-15VDC 60A 110/220 11.5A max input	BK Precision	1693	257F17180	N/A
BVD0321	Test System RF Cable + Fixed Attenuator 2W 20dB -40GHz	Mini-Circuits	BW-K20-2W44+	2103	12/11/2024
BVD0430	Multimeter	Fluke	117	49710262SV	11/17/2024
BVD0547	DC Regulated Power Supply	Tek Power	RP3010D 0-30V 0-10A	615211	N/A
BVD0229	Temp and Humidity Meter	Fluke	971	12001009	5/25/2024

Notes:- DC power supply verified before use with calibrated Multimeter.

Customer Supplied Equipment

ID #	Equipment	Manufacturer	Model	Serial #	Version No.
N/A	Harness	Harman	N/A	N/A	N/A
N/A	Ethernet Board	GM	N/A	N/A	CSMate rev.4

Equipment List (Software)

ID #	Equipment	Manufacturer	Model	Version No	
N/A	Harness	Harman	1.7m	N/A	N/A
N/A	Ethernet Converter	Harman	B365_9900_12 KK	N/A	N/A
N/A	USB/CAN Adapter	Gridconnect	Peak	IPEH-002021-158698	
N/A	Ethernet Adapter	Trendnet	TU2-ET100	RA0JU56004689	6.0R

4.4 Test Data

4.4.1 Number of Hopping Frequencies

Test according to FCC title 47 part 15 §15.247(a),(g), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 7.8.3, RSS-247 Section 5.1(d)

Channels

Channels	Limit Min	Result
79	15	PASS

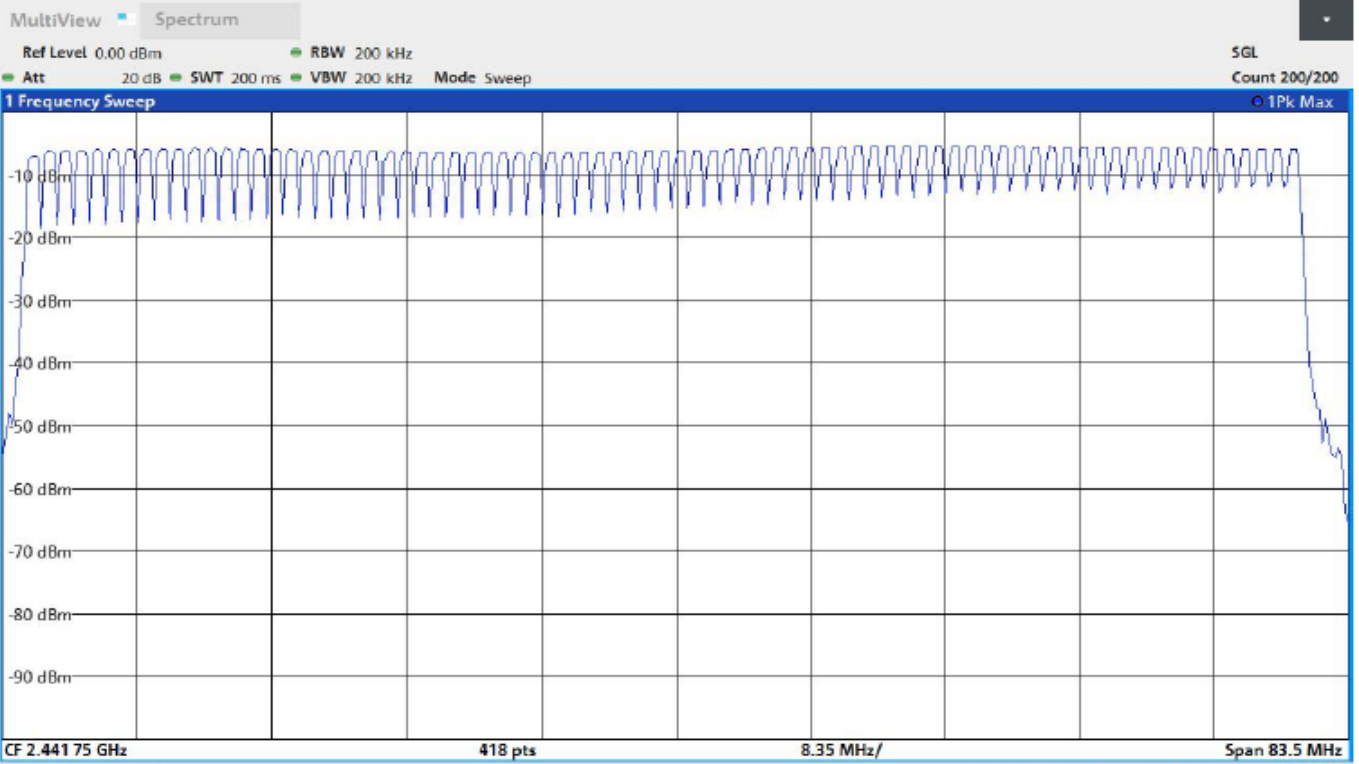
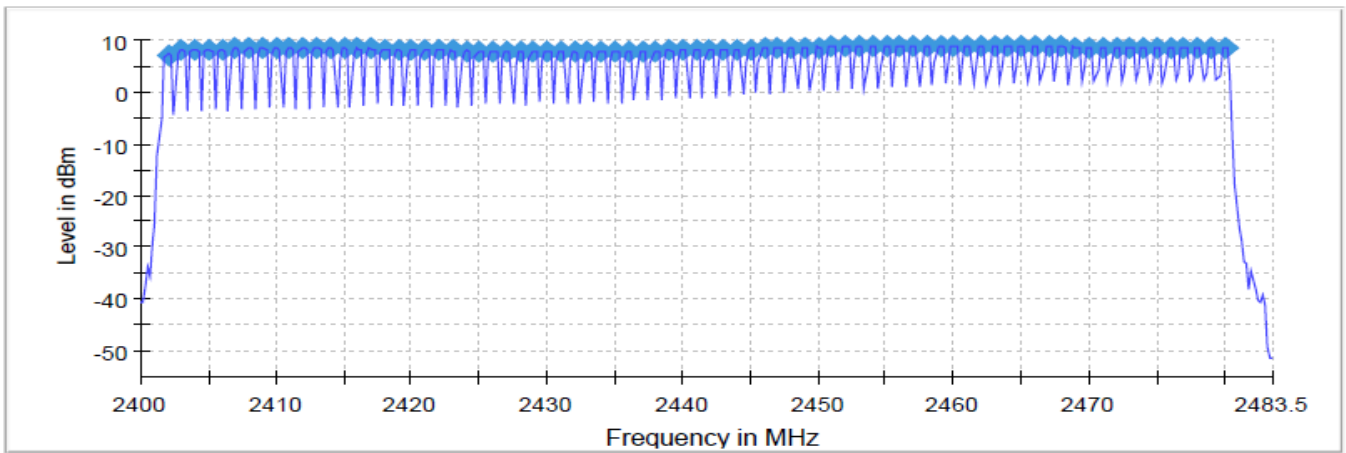
Spectrum Analyzer Settings

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 200.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	200.000 ms	200.000 ms
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 10	max. 10
Stable	1 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Plots for DH1 packet type shown below.

Hopping Frequencies

Sequence



4.4.2 Band Edge (Hopping)

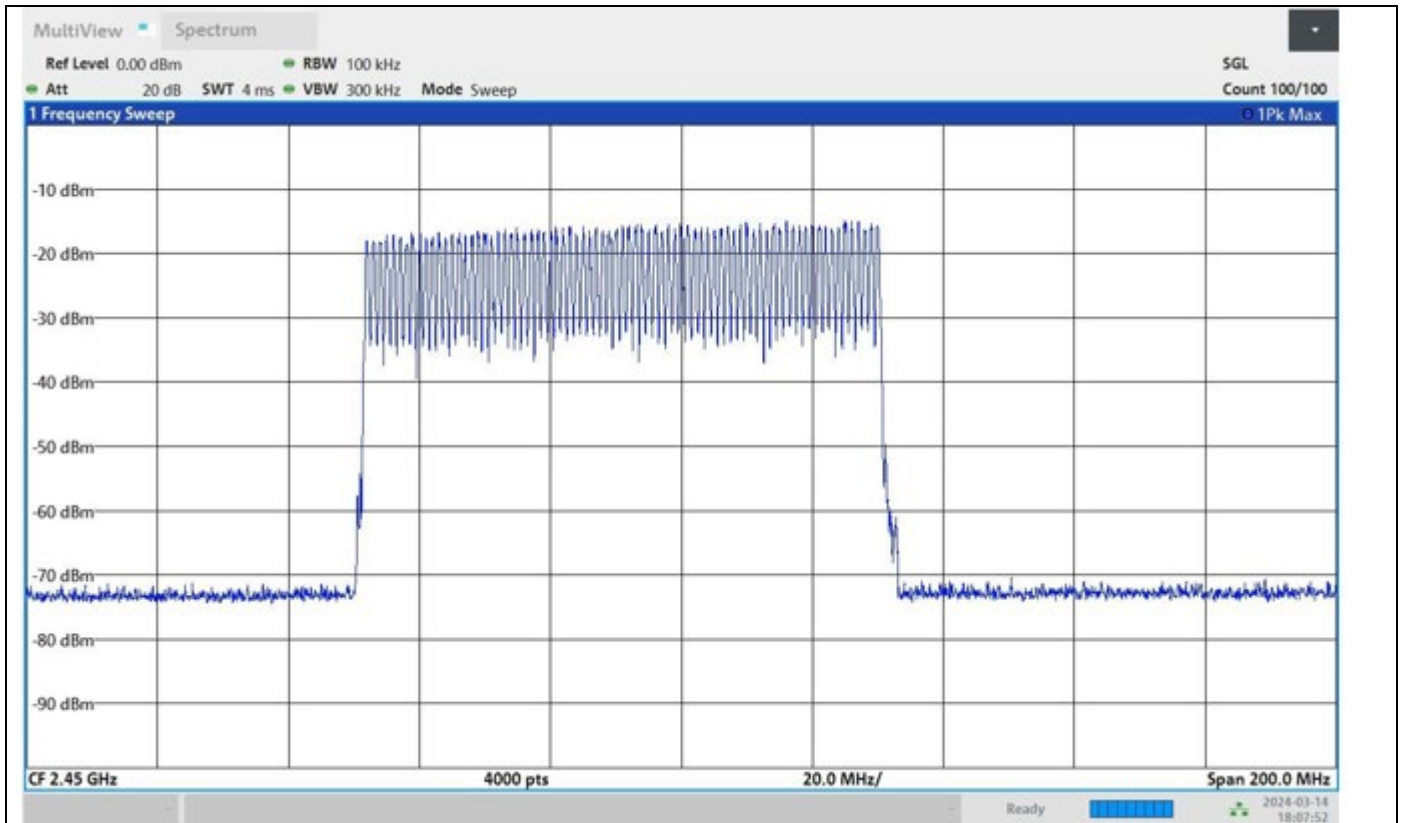
Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 7.8.6, RSS-247 Section 5.5

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 0.8 dB

Data Rate	Frequency (MHz)	Level (dBm)
DH1	2480.025000	6.7
3-DH1	2480.025000	6.0

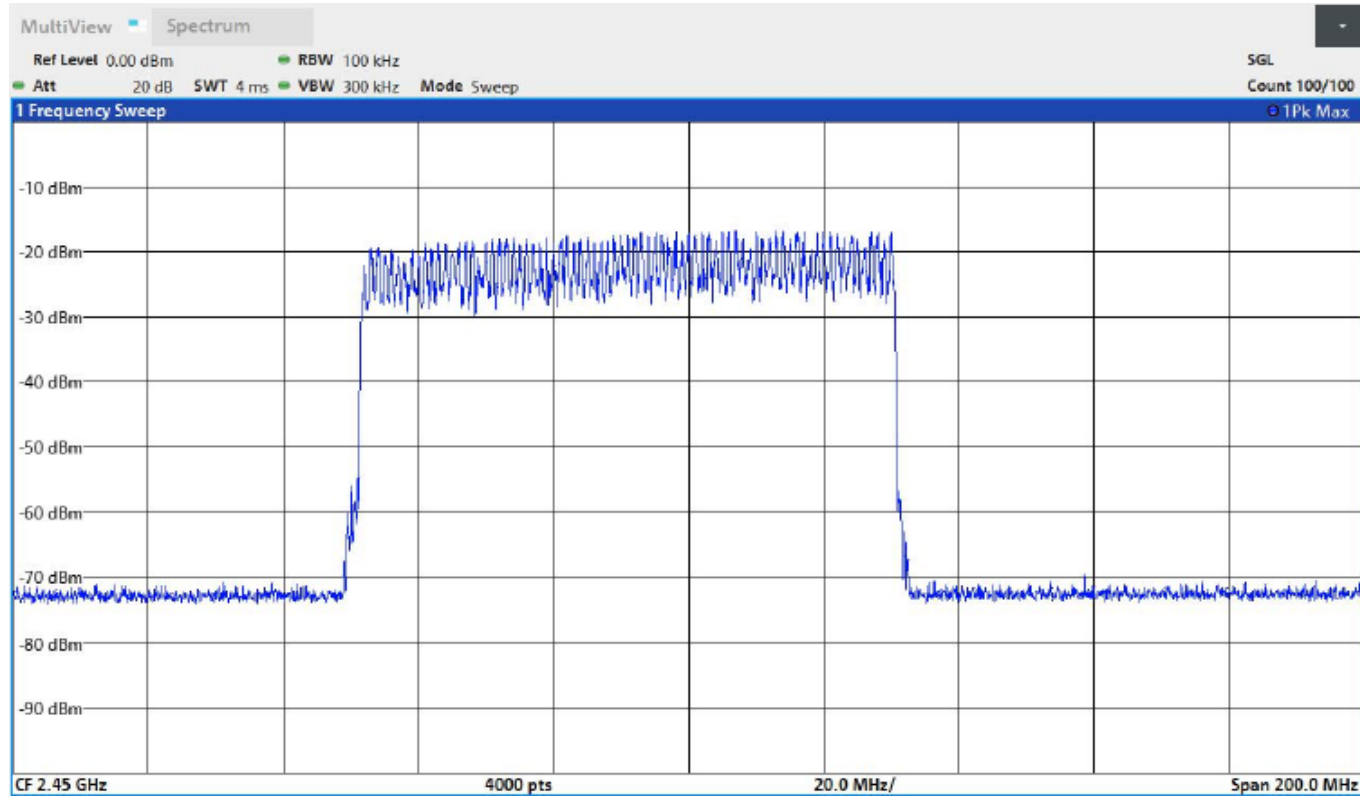
DH1 Measurements			
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2500.325000	-45.4	32.1	-13.3
2500.375000	-45.4	32.1	-13.3
2539.075000	-45.7	32.4	-13.3
2539.025000	-45.9	32.5	-13.3
2548.625000	-46.0	32.7	-13.3
2486.725000	-46.0	32.7	-13.3
2546.025000	-46.0	32.7	-13.3
2546.075000	-46.1	32.7	-13.3
2490.975000	-46.1	32.8	-13.3
2496.875000	-46.1	32.8	-13.3
2511.525000	-46.1	32.8	-13.3
2511.375000	-46.1	32.8	-13.3
2500.275000	-46.1	32.8	-13.3
2514.075000	-46.1	32.8	-13.3
2538.125000	-46.1	32.8	-13.3

Note:- Worst case emission frequencies are recorded in Measurements table above



3-DH1 Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.975000	-31.5	17.5	-14.0
2399.525000	-35.4	21.4	-14.0
2399.475000	-35.5	21.5	-14.0
2399.925000	-36.5	22.5	-14.0
2399.575000	-37.2	23.1	-14.0
2399.625000	-38.2	24.1	-14.0
2399.675000	-38.3	24.2	-14.0
2399.425000	-38.5	24.5	-14.0
2399.725000	-39.0	24.9	-14.0
2399.875000	-40.3	26.2	-14.0
2399.775000	-40.7	26.7	-14.0
2399.825000	-41.1	27.1	-14.0
2398.975000	-42.6	28.5	-14.0
2398.925000	-42.6	28.6	-14.0
2399.025000	-43.0	29.0	-14.0



Note:-Worst case emission frequencies are recorded in Measurements table above

4.4.3 Carrier Frequency Separation

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 7.8.2, RSS-247 Section 5.1(b)

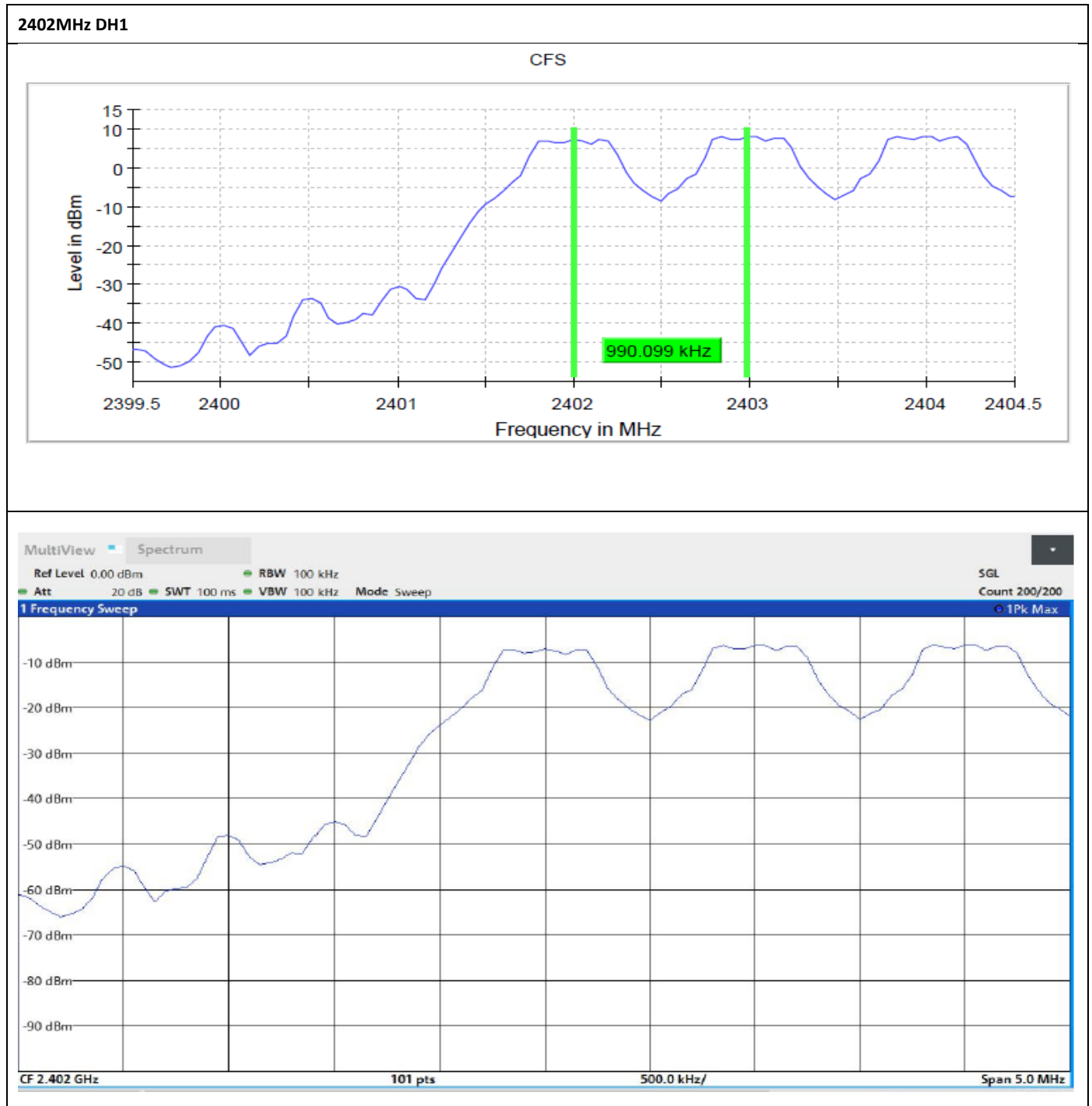
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (k = 2) < 1%

Hopping Mode				
Packet Type	2402MHz		2480MHz	
	Frequency Separation (MHz)	Minimum Limit (MHz)	Frequency Separation (MHz)	Minimum Limit (MHz)
DH1	0.990099	0.666667	0.990099	0.666667
3-DH1	0.990099	0.666667	0.990099	0.666667

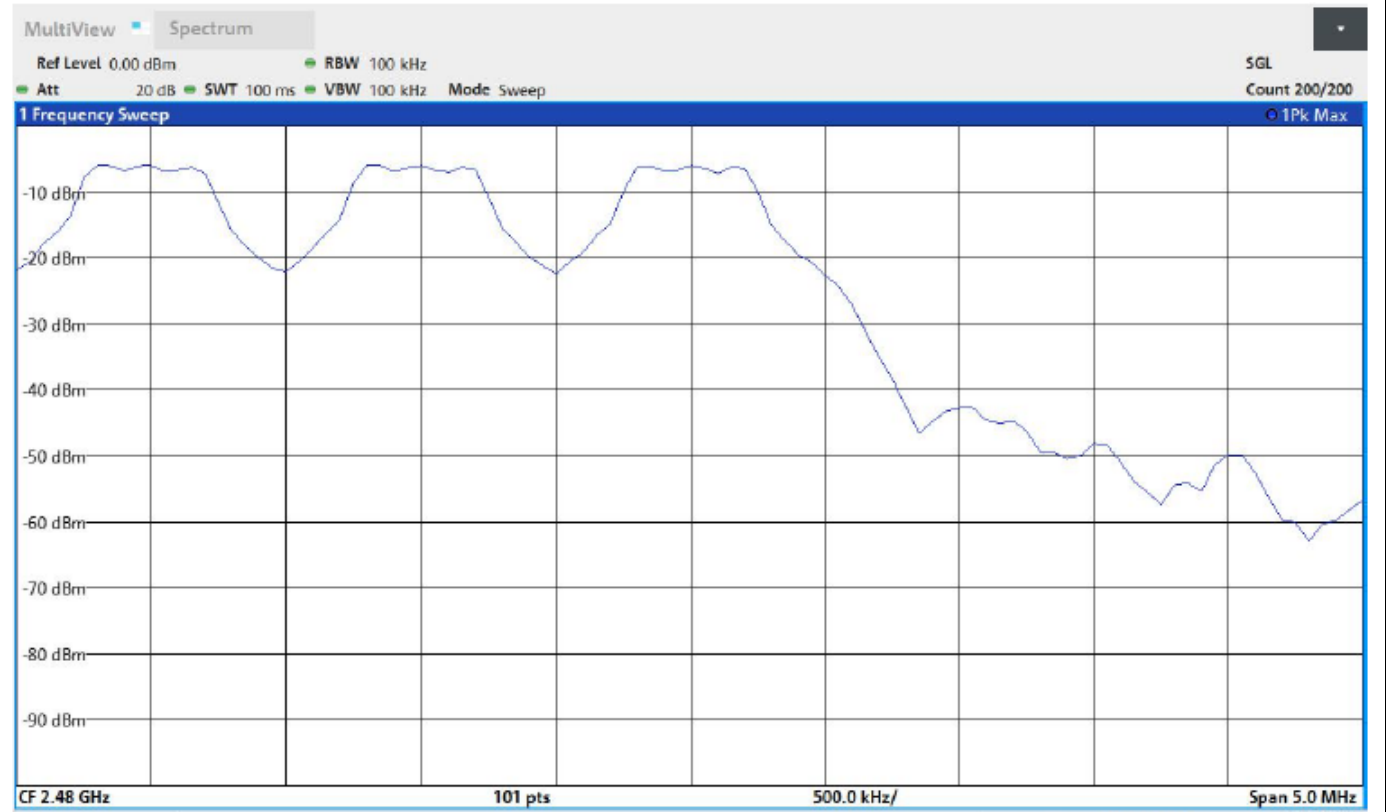
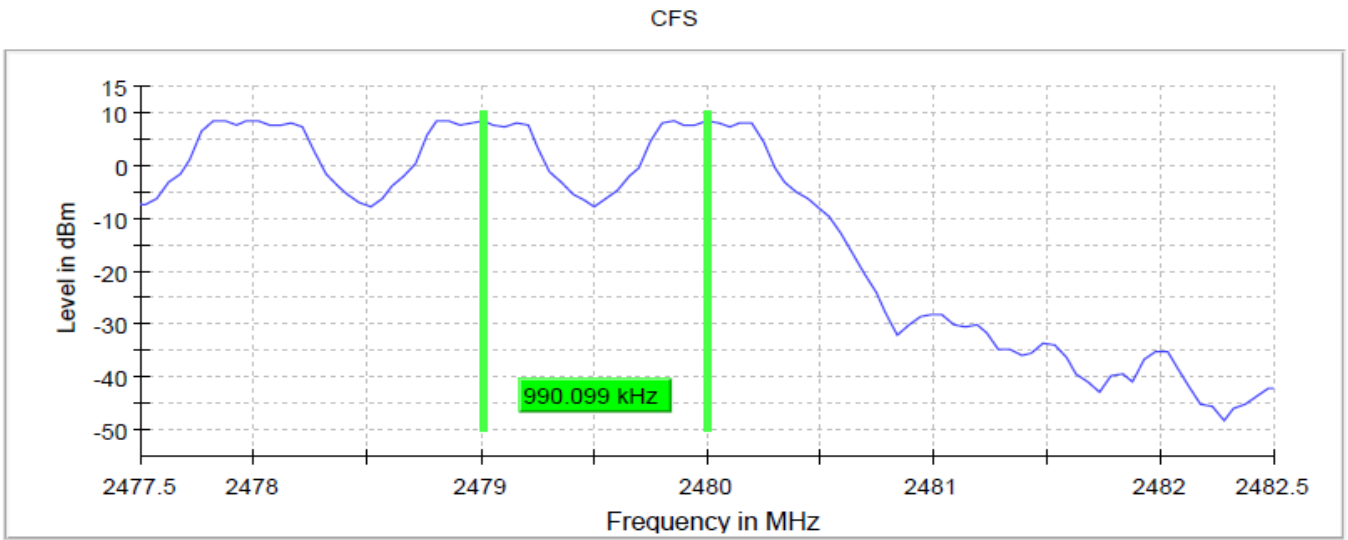
Spectrum Analyzer Settings for DH1 Packet Type

Setting	Instrument Value	Target Value
Start Frequency	2.39950 GHz	2.39950 GHz
Stop Frequency	2.40450 GHz	2.40450 GHz
Span	5.000 MHz	5.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	100.000 kHz	>= 100.000 kHz
SweepPoints	101	~ 50
Sweeptime	100.000 ms	100.000 ms
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	FFT
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	19 / max. 50	max. 50
Stable	10 / 10	10
Max Stable Difference	0.02 dB	0.50 dB

Plots for DH1 packet type shown below



2480MHz DH1



4.4.4 Time of Channel Occupancy

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 7.8.4, RSS-247 Section 5.1(d)

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1%

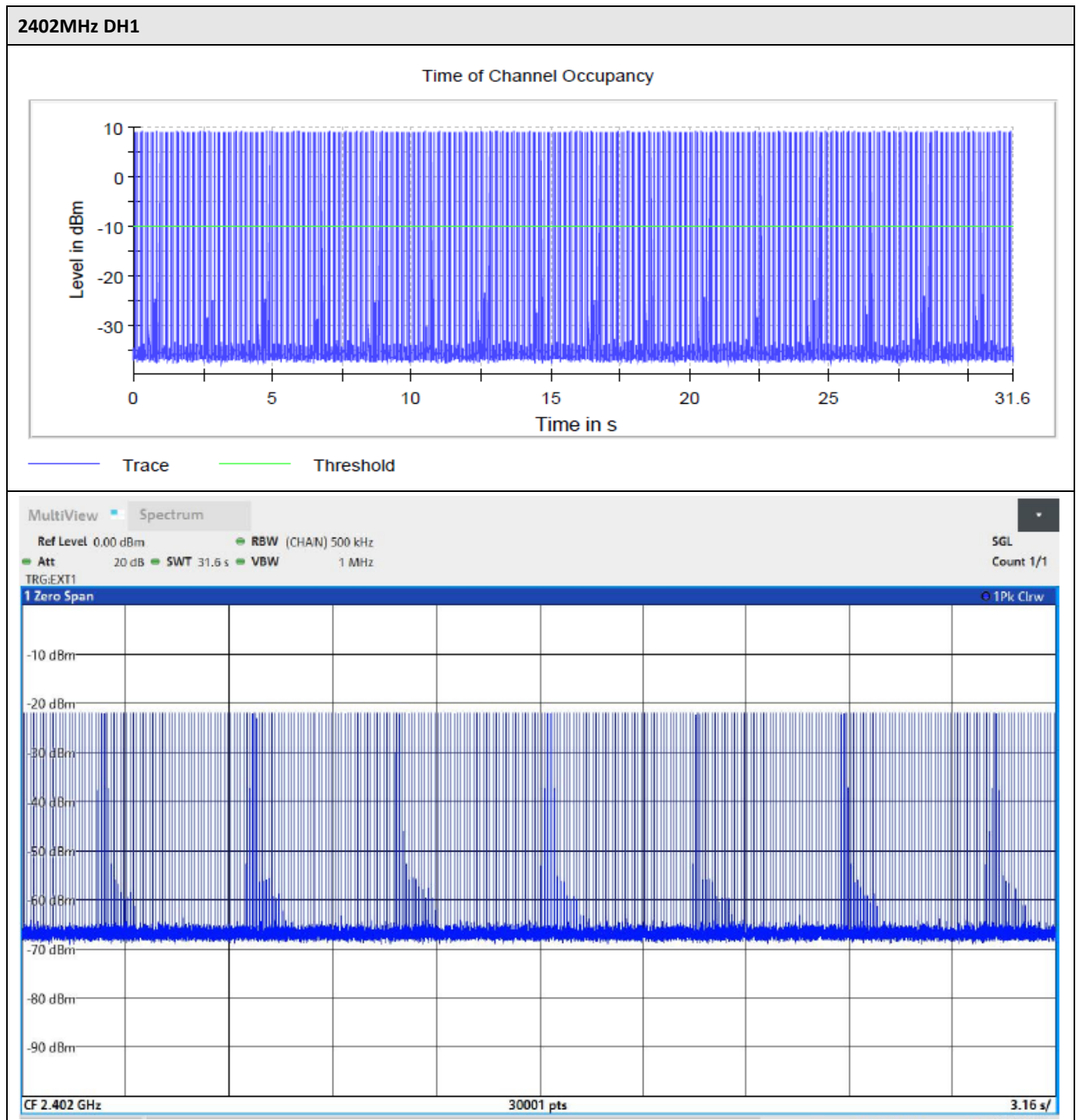
The transmit time per hop was measured by summing the sweep points above a threshold at least 10dB from the maximum level on the spectrum analyzer display.

Frequency	Data Rate	Mean Transmit Time per Hop (ms)	Number of Hops	Time (ms)	Limit Max (ms)	Result
2402.000000	DH1	0.404	319	129.180	400.000	PASS
2441.000000	DH1	0.404	319	129.390	400.000	PASS
2480.000000	DH1	0.404	319	129.420	400.000	PASS
2402.000000	3-DH1	0.415	319	132.700	400.000	PASS
2441.000000	3-DH1	0.416	319	133.030	400.000	PASS
2480.000000	3-DH1	0.416	319	133.110	400.000	PASS

Spectrum Analyzer Settings for 2402MHz

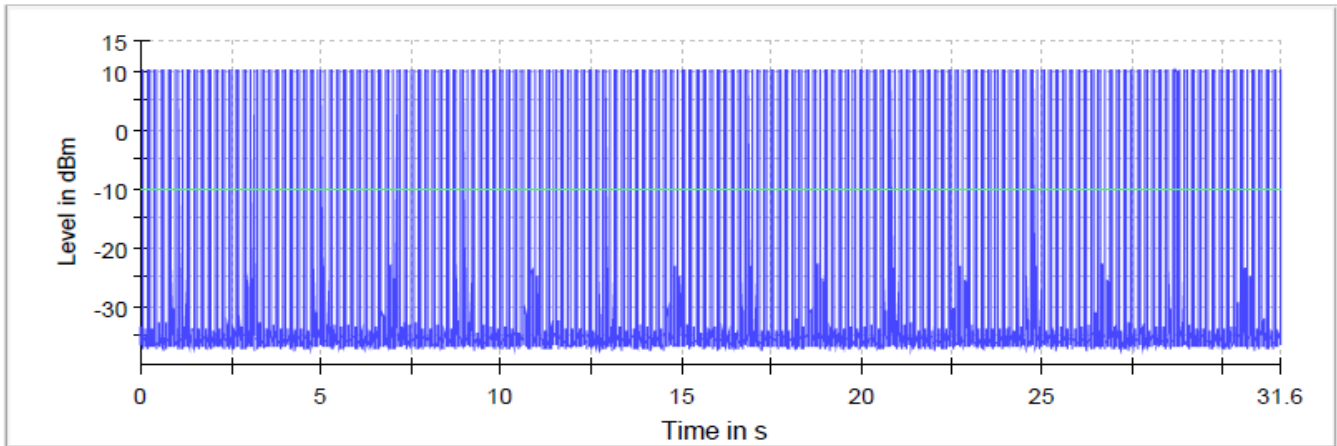
Setting	Instrument Value	Target Value
Center Frequency	2.40200 GHz	2.40200 GHz
Span	ZeroSpan	ZeroSpan
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	~ 1.500 MHz
SweepPoints	30001	~ 30001
Sweeptime	31.600 s	31.600 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
Sweeptype	Sweep	AUTO
Preamp	off	off
Trigger	External	External
Trigger Offset	0.000 s	0.000 s

Plots for DH1 packet type shown below



2441MHz DH1

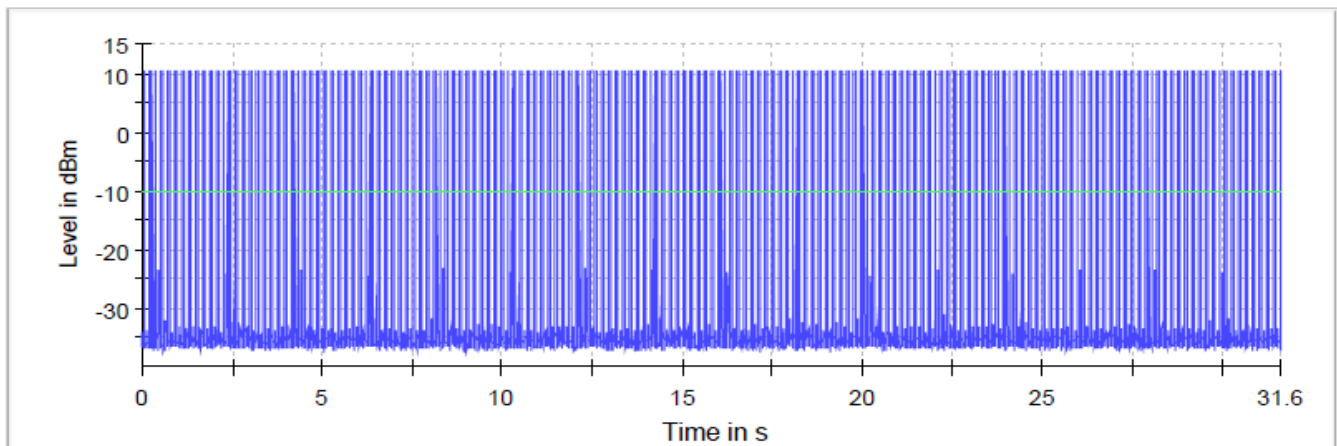
Time of Channel Occupancy



Trace Threshold

2480MHz DH1

Time of Channel Occupancy



Trace Threshold

4.4.5 Peak Output Power

FPDM KM49 LHD

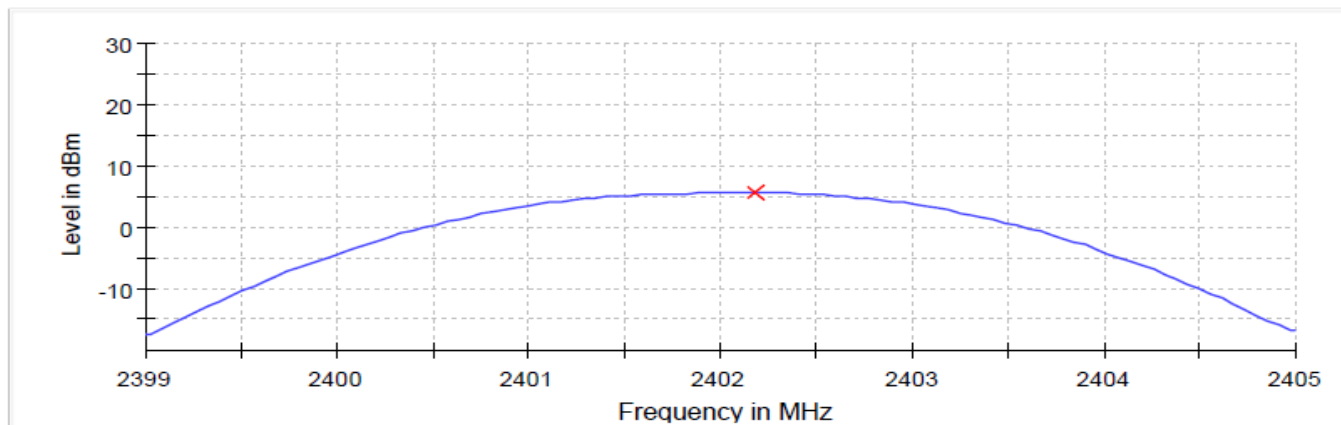
Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 7.8.5, RSS-247 Section 5.4 (b)

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

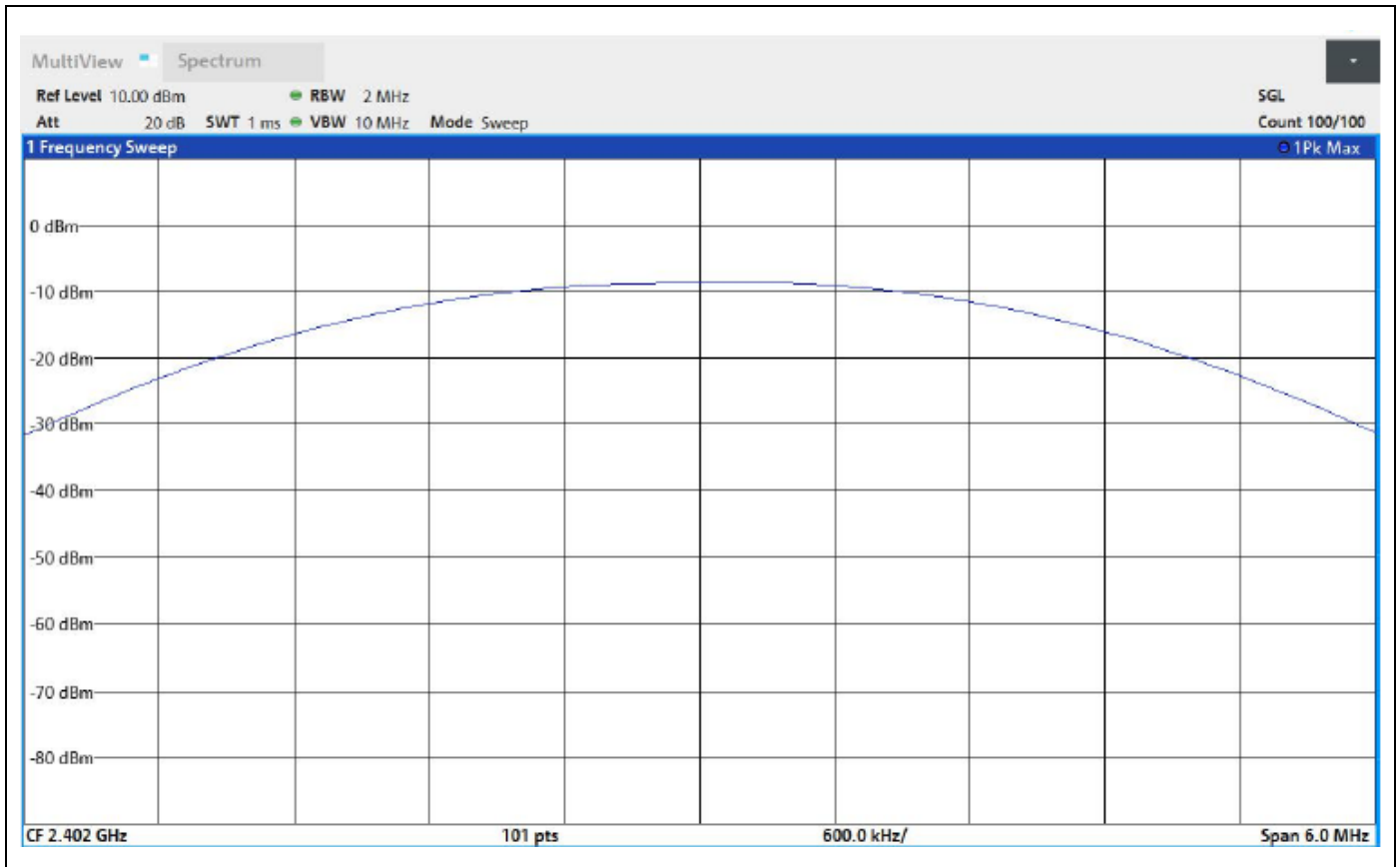
Data Rate	2402 MHz	2441 MHz	2480 MHz	Limit dBm
DH1	5.585	7.847	8.381	21.0
DH3	5.564	7.821	8.341	21.0
DH5	5.570	7.809	8.348	21.0
2-DH1	3.662	6.818	7.144	21.0
2-DH3	3.764	6.894	7.207	21.0
2-DH5	3.845	6.906	7.181	21.0
3-DH1	4.088	7.048	7.400	21.0
3-DH3	4.152	7.063	7.395	21.0
3-DH5	4.116	7.025	7.380	21.0

2480MHz DH1

Peak Power



— Connector 1 × Peak Connector 1



FPDM DT LHD

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 7.8.5, RSS-247 Section 5.4 (b)

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Data Rate	2402 MHz	2441 MHz	2480 MHz	Limit dBm
DH1	3.977	6.599	7.529	21.0
DH3	3.932	6.572	7.487	21.0
DH5	3.959	6.566	7.480	21.0
2-DH1	2.025	5.624	6.450	21.0
2-DH3	2.032	5.654	6.424	21.0
2-DH5	2.102	5.663	6.452	21.0
3-DH1	2.388	5.813	6.634	21.0
3-DH3	2.424	5.870	6.717	21.0
3-DH5	2.671	5.746	6.849	21.0

Note: FPDM KM49 LHD is determined with worst case power, so full testing is performed on FPDM KM49 LHD Model.

4.4.6 Emission Bandwidth 20dB

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 7.8.7, RSS-247 Section 5.1(a)

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

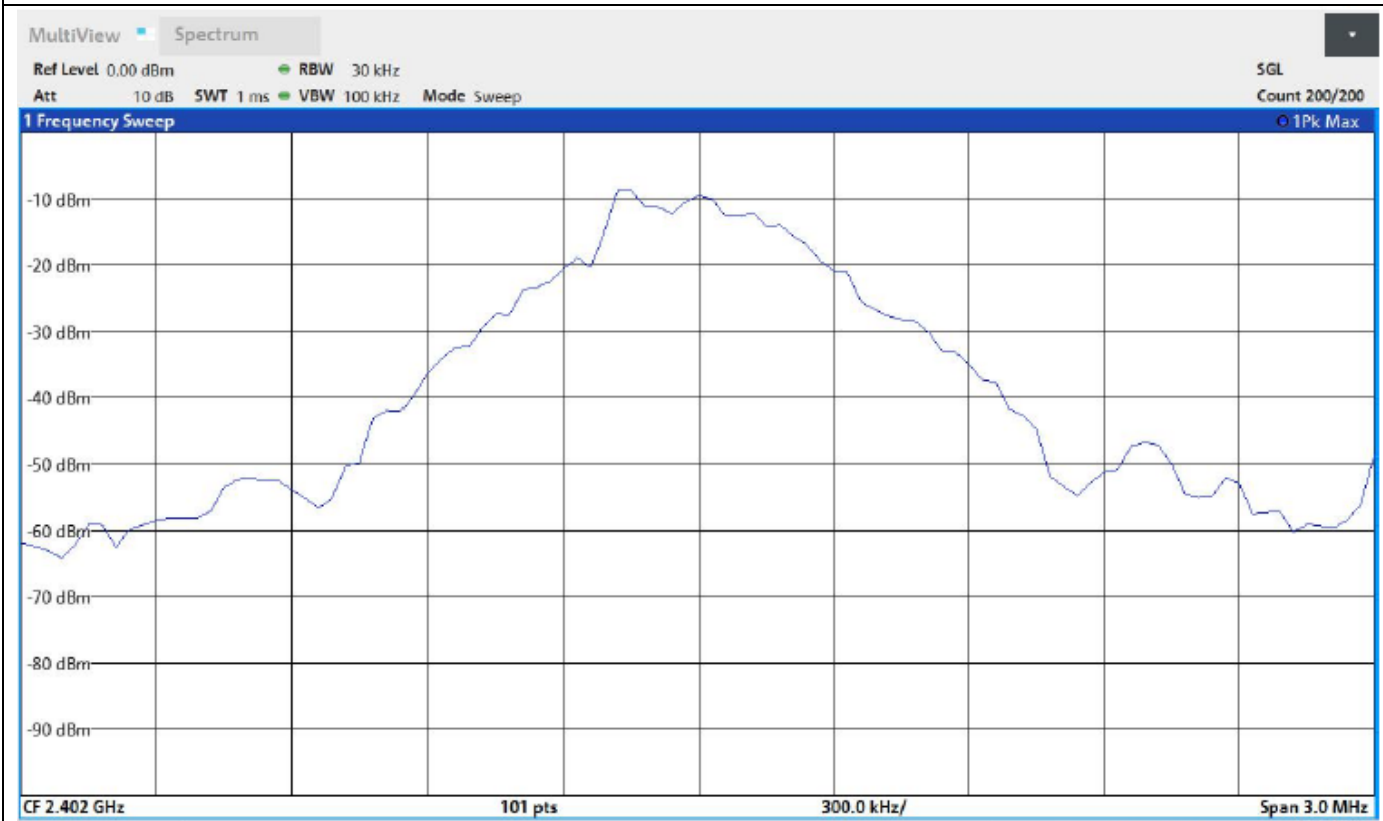
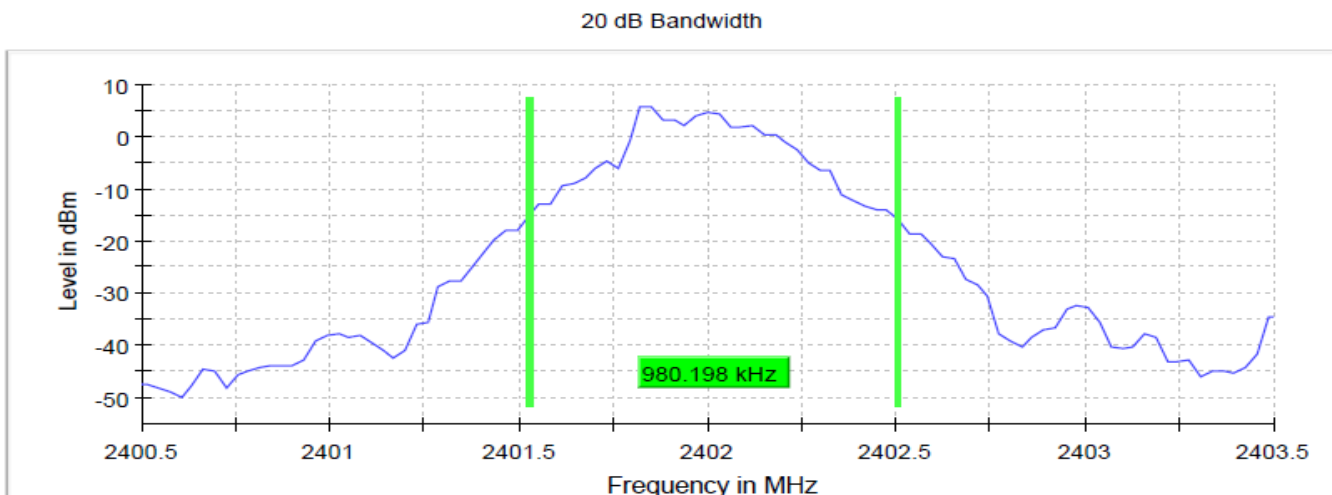
Channel / Frequency (MHz)	Packet Type	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
0 / 2402	DH1	0.980198	2401.524752	2402.504950	PASS
	3-DH1	1.306930	2401.346535	2402.653465	PASS
39 / 2441	DH1	0.950496	2440.524752	2441.475248	PASS
	3-DH1	1.306930	2440.346535	2441.653465	PASS
78 / 2480	DH1	0.920793	2479.524752	2480.445545	PASS
	3-DH1	1.306930	2479.346535	2480.653465	PASS

Spectrum Analyzer Settings for 2402MHz

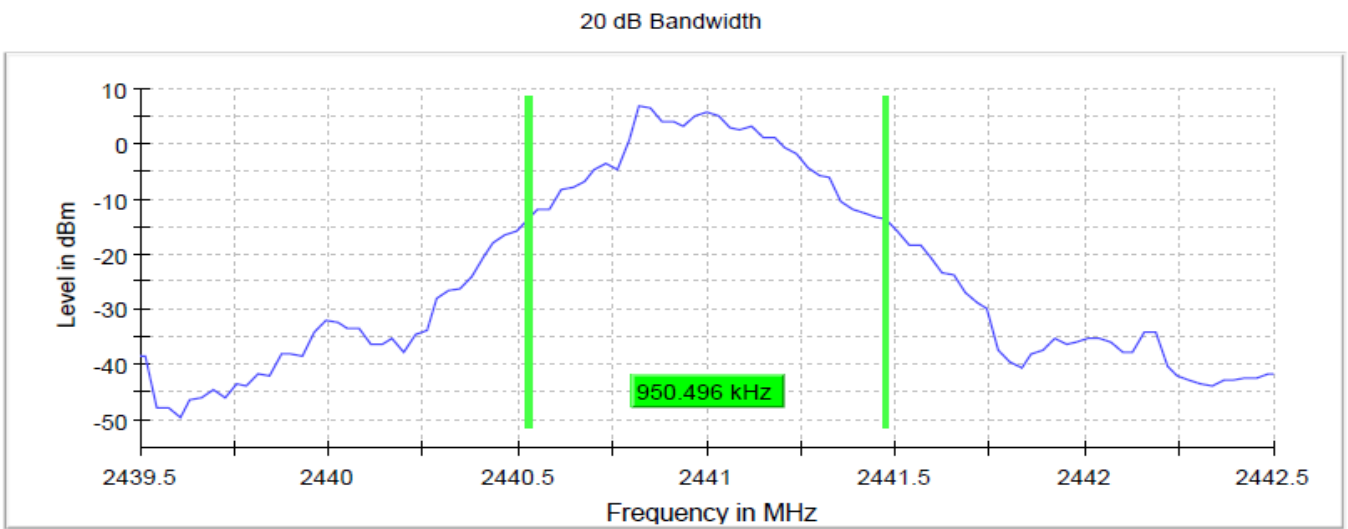
Setting	Instrument Value	Target Value
Start Frequency	2.40050 GHz	2.40050 GHz
Stop Frequency	2.40350 GHz	2.40350 GHz
Span	3.000 MHz	3.000 MHz
RBW	30.000 kHz	>= 30.000 kHz
VBW	100.000 kHz	>= 90.000 kHz
SweepPoints	101	~ 101
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.03 dB	0.50 dB

Plots for DH1 Packet Type shown below

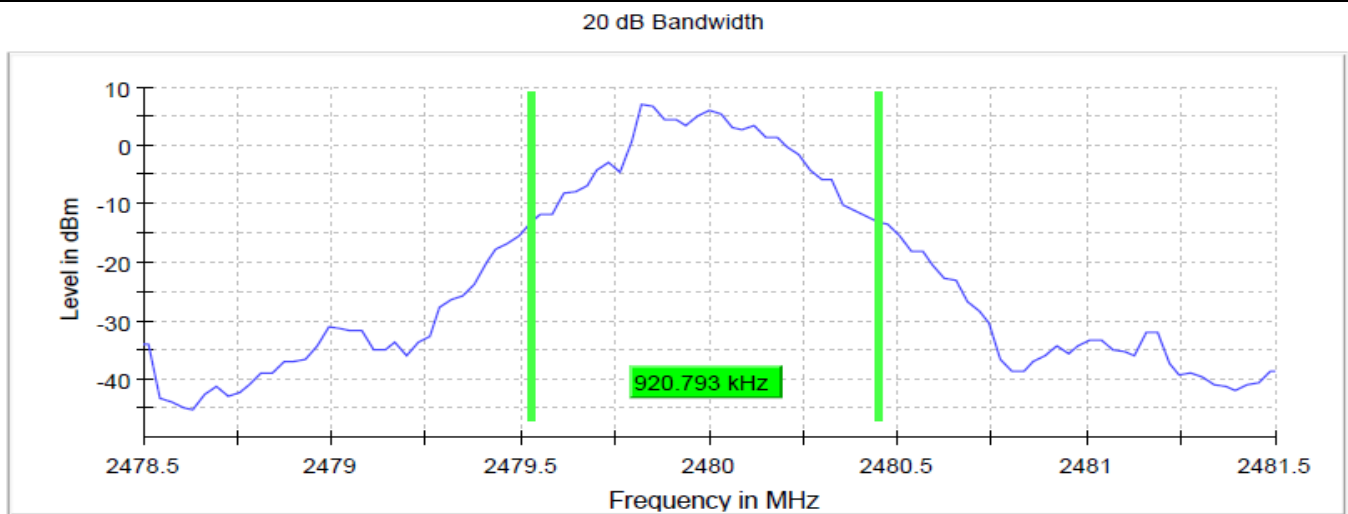
2402MHz DH1



2441MHz DH1



2480MHz DH1



4.4.7 Occupied Channel Bandwidth 99%

Test according to RSS-GEN Section 6.7, KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013

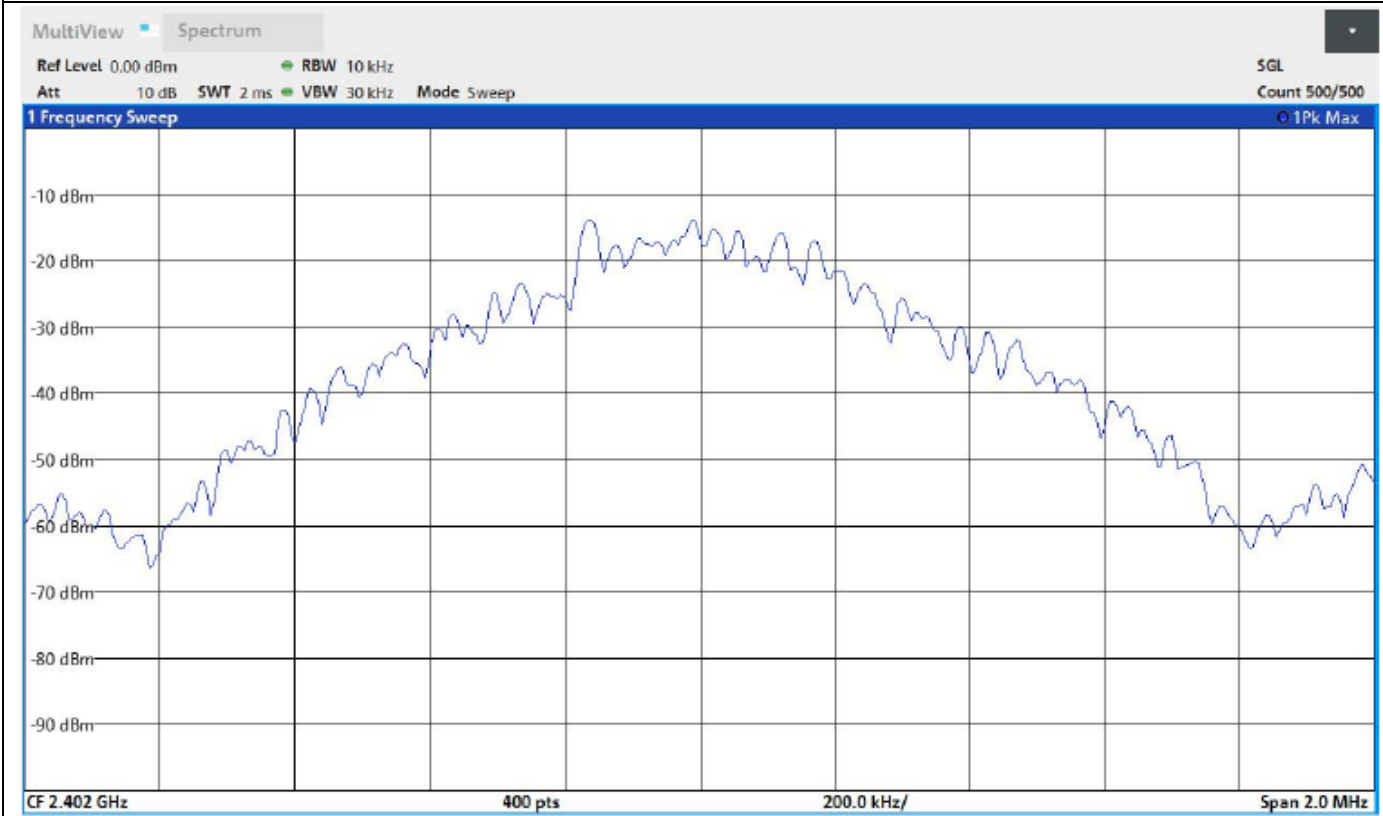
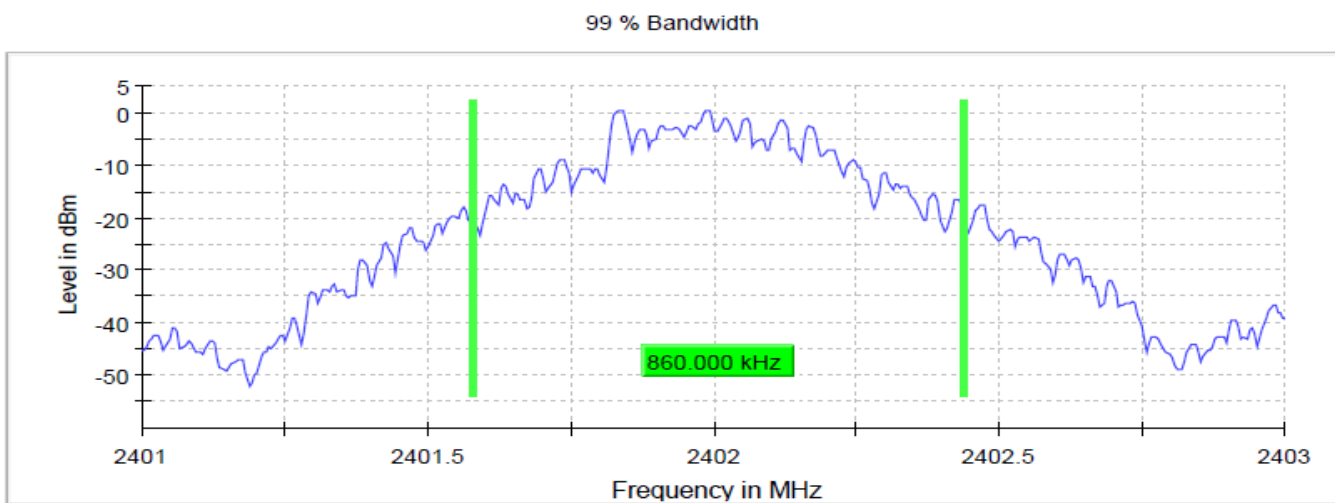
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 2%

Channel / Frequency (MHz)	Packet Type	Bandwidth (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
0 / 2402	DH1	0.860000	2401.577500	2402.437500	PASS
	3-DH1	1.145000	2401.432500	2402.577500	PASS
39 / 2441	DH1	0.860000	2440.567500	2441.427500	PASS
	3-DH1	1.145000	2440.432500	2441.577500	PASS
78 / 2480	DH1	0.860000	2479.567500	2480.427500	PASS
	3-DH1	1.306930	2479.346535	2480.653465	PASS

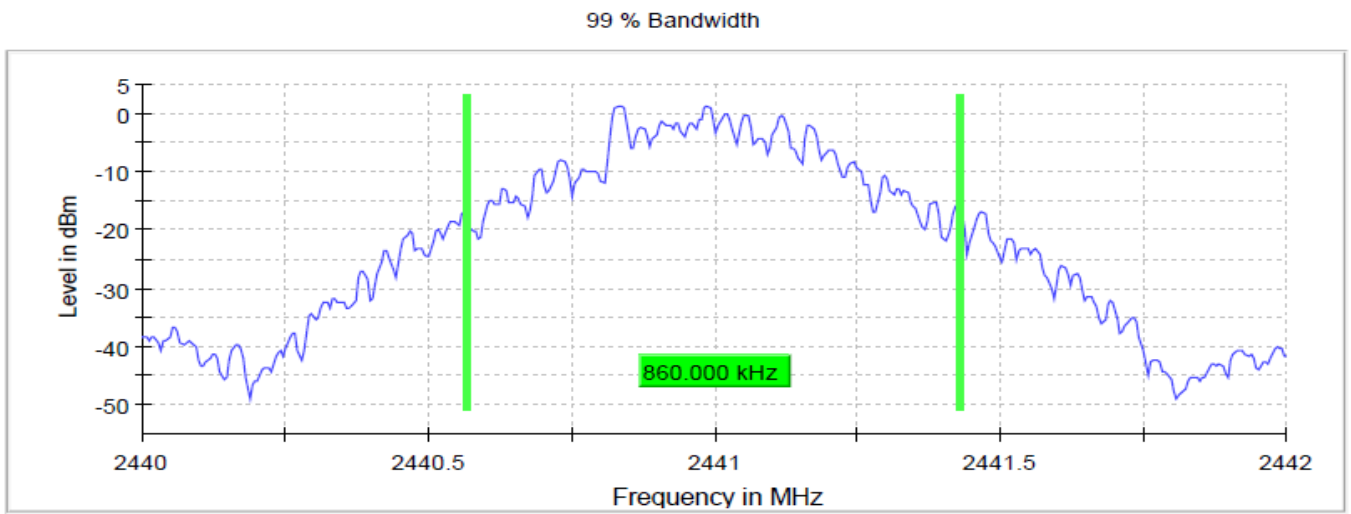
Spectrum Analyzer Settings for 2402MHz DH1

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
SweepTime	2.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.09 dB	0.30 dB

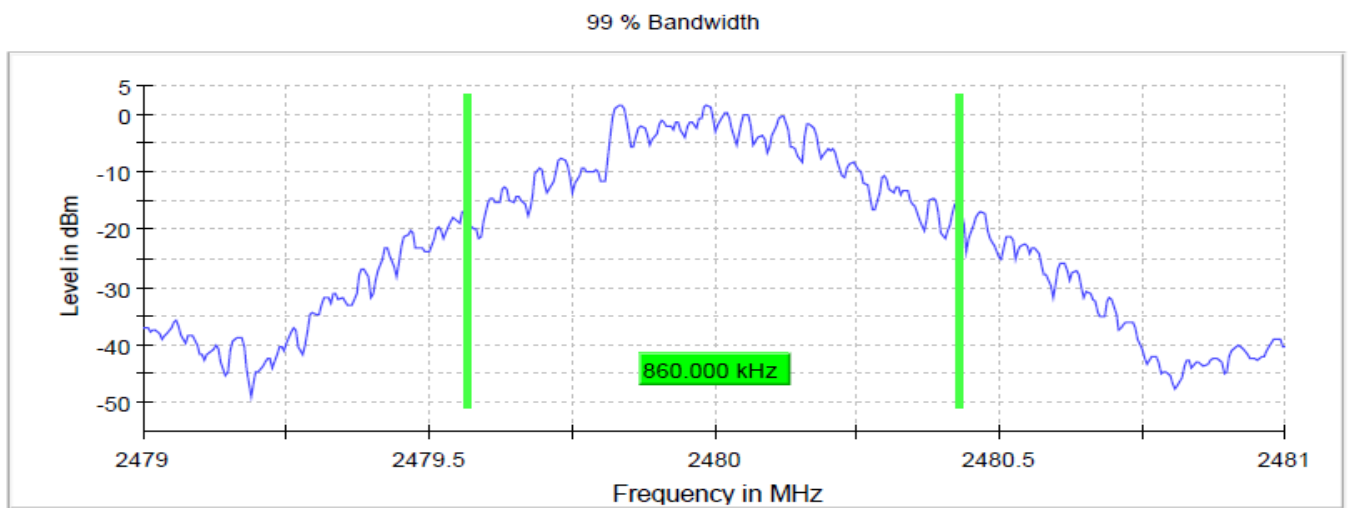
2402MHz DH1



2441MHz DH1



2480MHz DH1



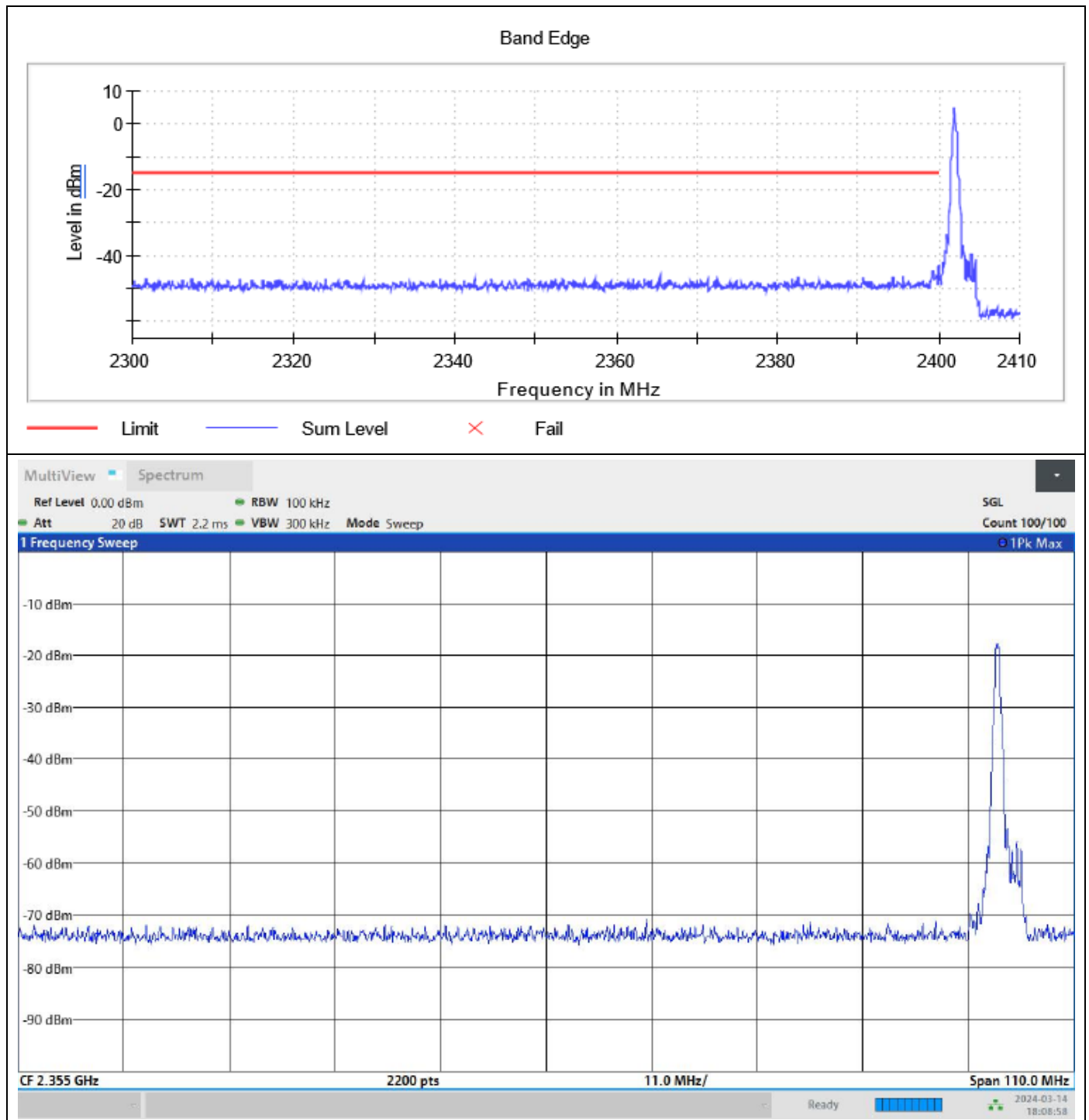
4.4.8 Band Edge Low (2402 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 7.8.6, RSS-247 Section 5.5

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 0.8 dB

Data Rate	Frequency (MHz)	Level(dBm)
DH1	2401.825000	5.0
3-DH1	2401.825000	2.3

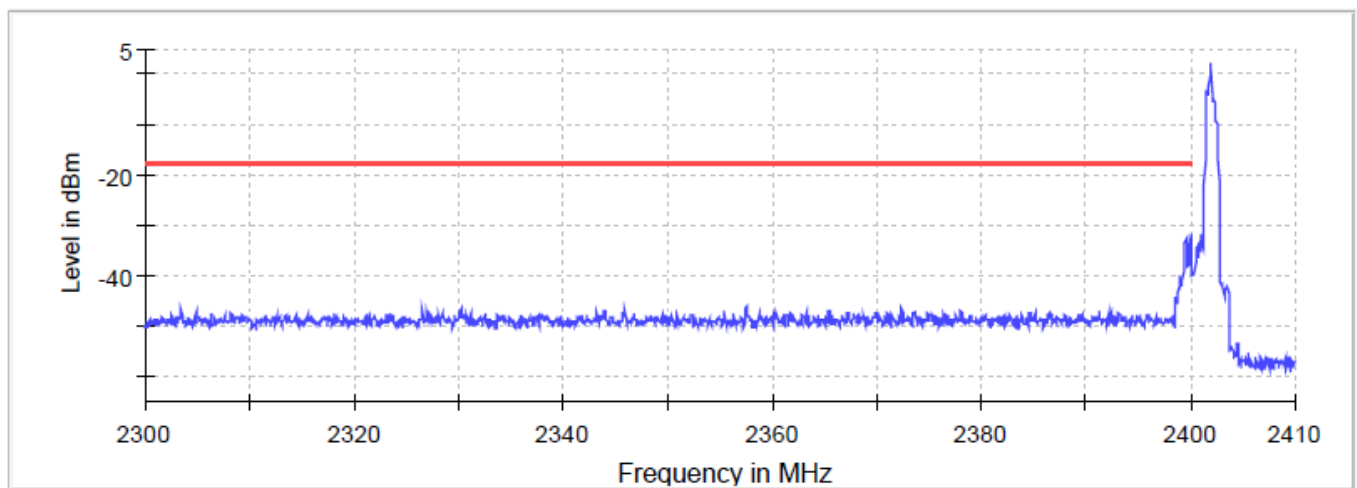
DH1 Measurements 2402MHz			
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.975000	-43.0	28.0	-15.0
2399.925000	-43.6	28.6	-15.0
2399.175000	-45.0	30.0	-15.0
2399.225000	-45.0	30.0	-15.0
2399.275000	-45.1	30.1	-15.0
2399.375000	-45.6	30.6	-15.0
2399.325000	-45.8	30.8	-15.0
2365.425000	-46.0	31.0	-15.0
2365.475000	-46.0	31.0	-15.0
2399.575000	-46.3	31.3	-15.0
2399.625000	-46.3	31.3	-15.0
2399.675000	-46.3	31.3	-15.0
2395.575000	-46.4	31.4	-15.0
2382.525000	-46.6	31.6	-15.0
2382.575000	-46.6	31.6	-15.0



3-DH1 Measurements 2402MHz

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.975000	-31.6	13.8	-17.7
2399.525000	-32.8	15.1	-17.7
2399.475000	-33.3	15.6	-17.7
2399.575000	-33.9	16.1	-17.7
2399.925000	-34.2	16.5	-17.7
2399.425000	-37.0	19.3	-17.7
2399.625000	-37.3	19.6	-17.7
2399.875000	-37.6	19.9	-17.7
2399.725000	-37.7	19.9	-17.7
2399.775000	-37.7	19.9	-17.7
2399.825000	-38.0	20.2	-17.7
2399.675000	-38.2	20.5	-17.7
2399.325000	-38.6	20.8	-17.7
2399.375000	-38.8	21.1	-17.7
2399.275000	-39.0	21.3	-17.7

Band Edge



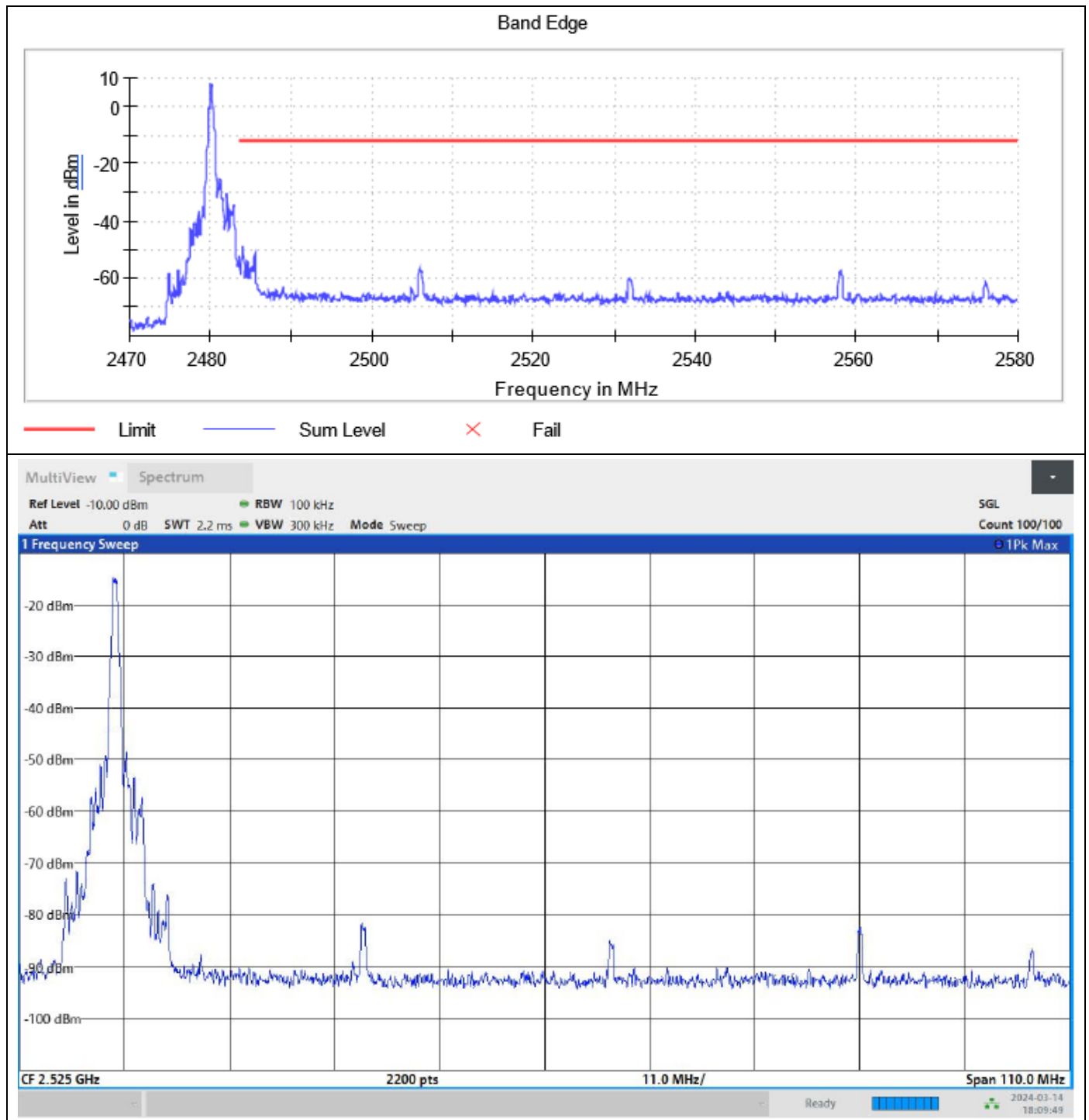
4.4.9 Band Edge High (2480 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 7.8.6, RSS-247 Section 5.5

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 0.8 dB

Data Rate	Frequency (MHz)	Level(dBm)
DH1	2480.025000	8.0
3-DH1	2480.025000	6.0

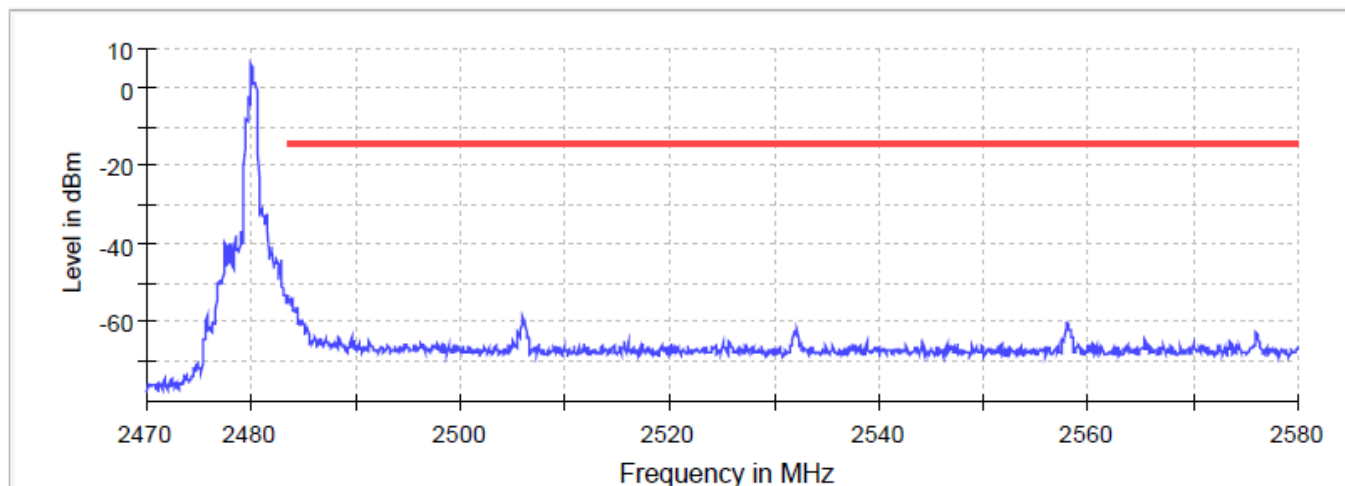
DH1 Measurements 2480MHz			
Measurements			
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2484.025000	-49.2	37.2	-12.0
2483.975000	-49.3	37.2	-12.0
2484.075000	-50.7	38.7	-12.0
2483.925000	-51.2	39.2	-12.0
2485.475000	-51.3	39.3	-12.0
2485.525000	-51.5	39.4	-12.0
2483.525000	-52.3	40.3	-12.0
2485.425000	-52.9	40.8	-12.0
2483.575000	-53.6	41.5	-12.0
2484.525000	-54.3	42.2	-12.0
2485.575000	-54.4	42.4	-12.0
2484.575000	-54.8	42.7	-12.0
2484.475000	-54.8	42.7	-12.0
2483.875000	-55.1	43.0	-12.0
2483.625000	-55.6	43.5	-12.0



3-DH1 Measurements 2480MHz

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2483.525000	-52.8	38.9	-14.0
2483.575000	-53.6	39.7	-14.0
2483.675000	-54.2	40.2	-14.0
2483.725000	-54.2	40.2	-14.0
2483.925000	-54.3	40.3	-14.0
2483.775000	-54.7	40.7	-14.0
2483.625000	-54.7	40.8	-14.0
2483.875000	-54.8	40.8	-14.0
2483.975000	-54.8	40.8	-14.0
2483.825000	-56.0	42.0	-14.0
2484.325000	-56.4	42.4	-14.0
2484.375000	-56.5	42.6	-14.0
2484.125000	-56.9	43.0	-14.0
2484.025000	-57.1	43.1	-14.0
2484.075000	-57.1	43.1	-14.0

Band Edge

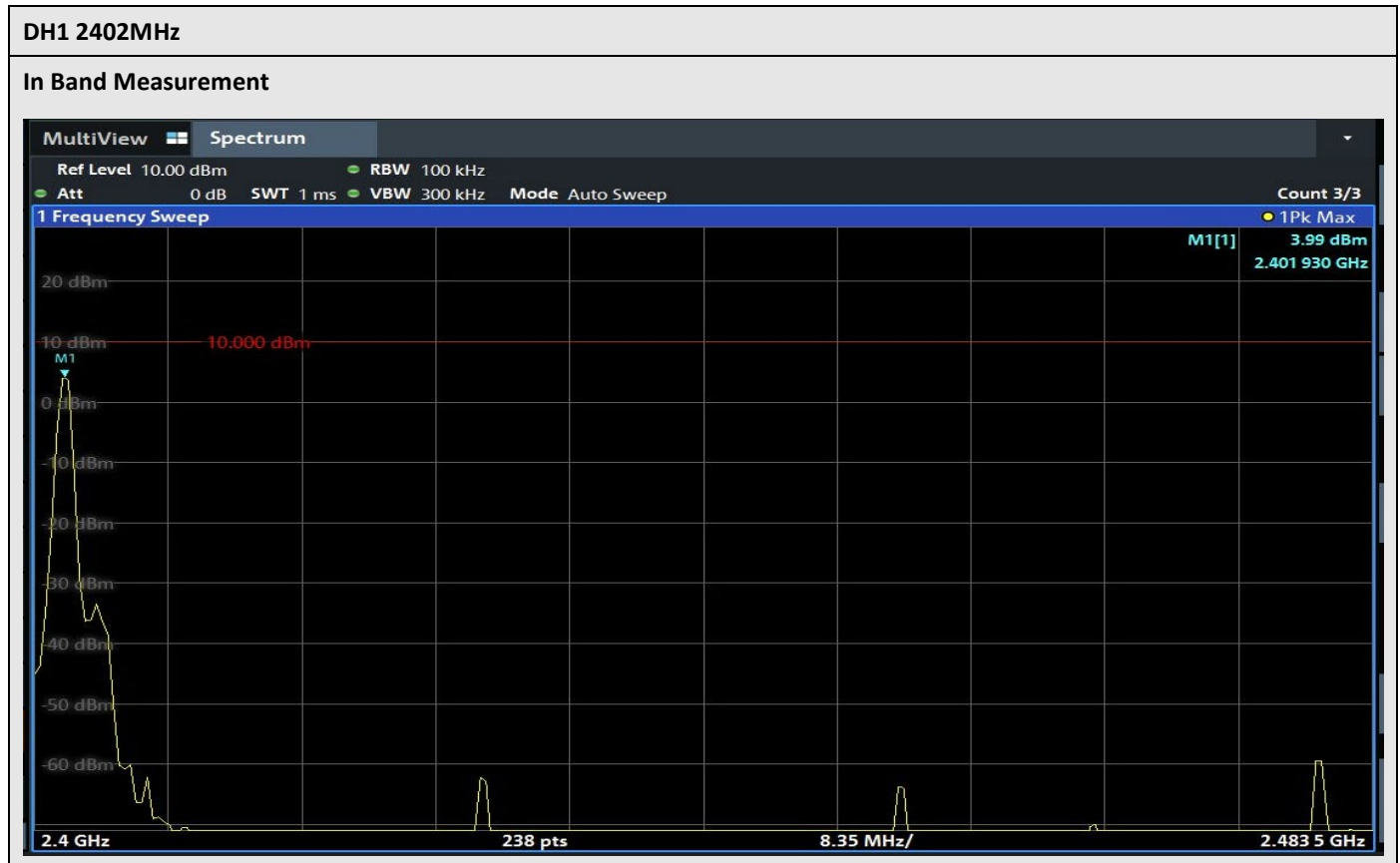


— Limit — Sum Level × Fail

4.4.10 Tx Spurious Emission

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 Section 7.8.8, RSS-247 Section 5.5

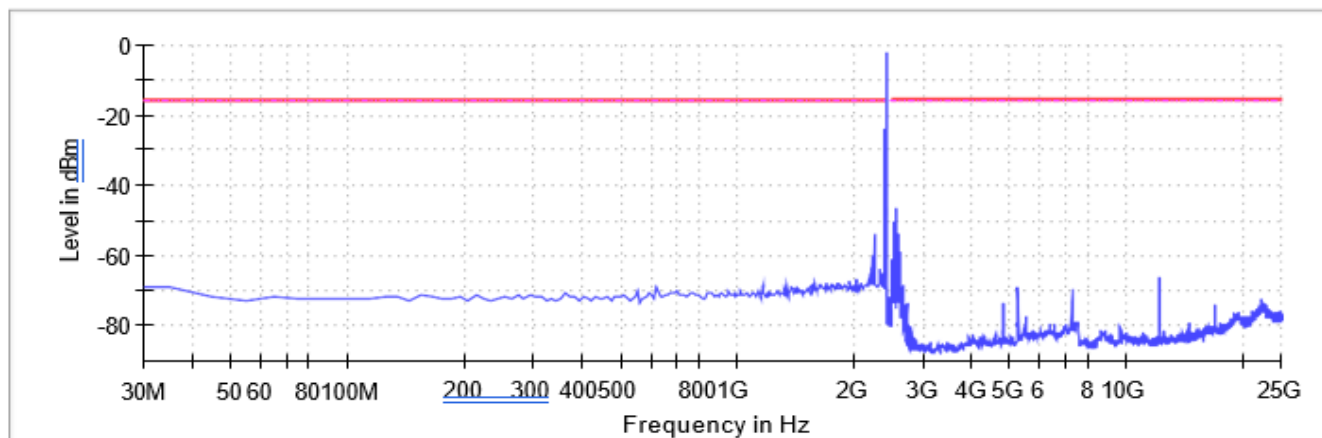
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1. Expanded Uncertainty (K=2) < 1.8 dB



Pre Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2375.105042	-24.0	8.0	-16.0
2558.455060	-46.4	30.4	-16.0
2508.485020	-50.9	34.9	-16.0
2528.473036	-52.5	36.5	-16.0
2588.437084	-54.1	38.1	-16.0
2245.651261	-54.2	38.2	-16.0
2608.425100	-59.2	43.2	-16.0
2215.777311	-60.1	44.1	-16.0
2498.491012	-62.9	46.9	-16.0
2315.357143	-64.4	48.4	-16.0
2365.147059	-64.6	48.6	-16.0
2345.231092	-65.2	49.2	-16.0
2185.903361	-65.5	49.5	-16.0
12012.786618	-66.3	50.3	-16.0
2548.461052	-66.8	50.8	-16.0

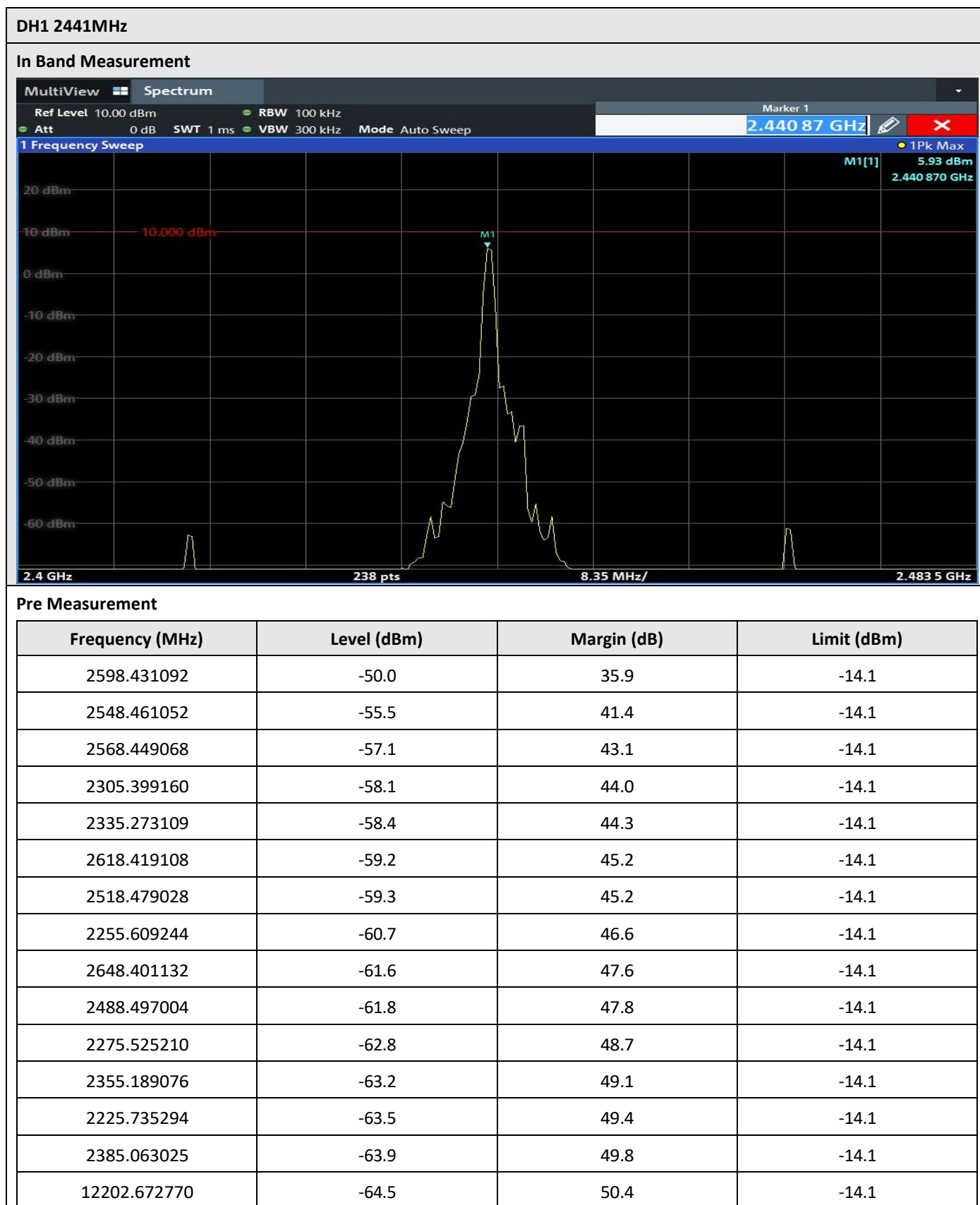
Spurious

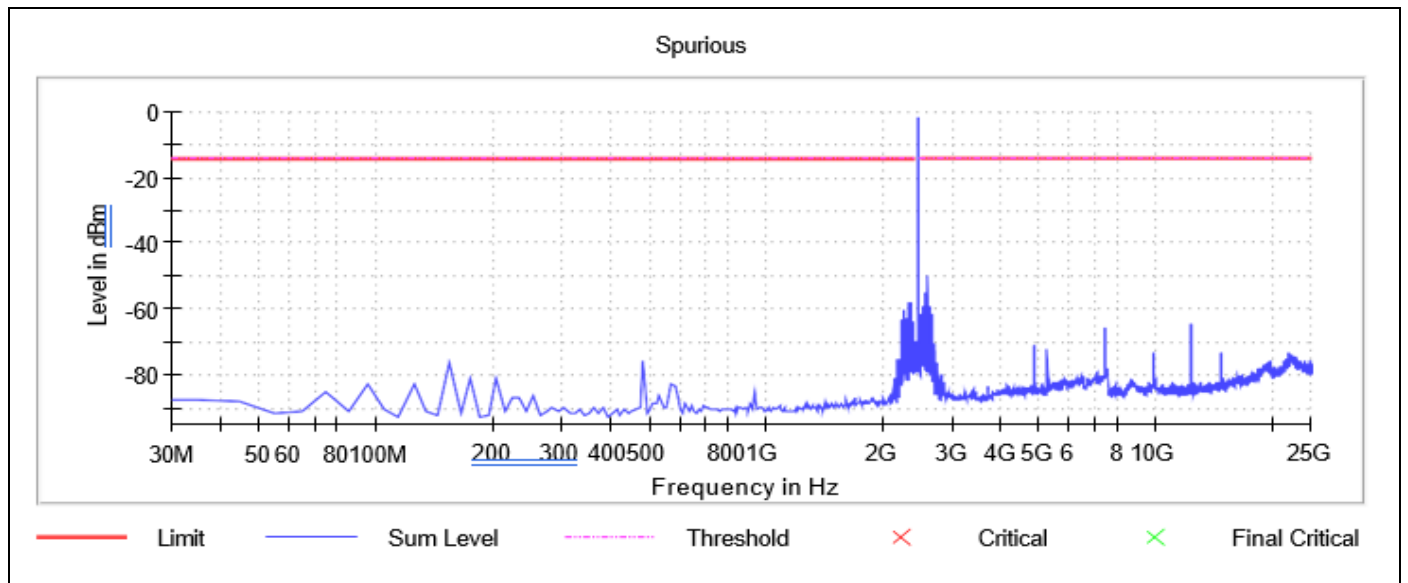


— Limit — Sum Level - - - - - Threshold × Critical × Final Critical

Spectrum Analyzer Pre Measurement Settings

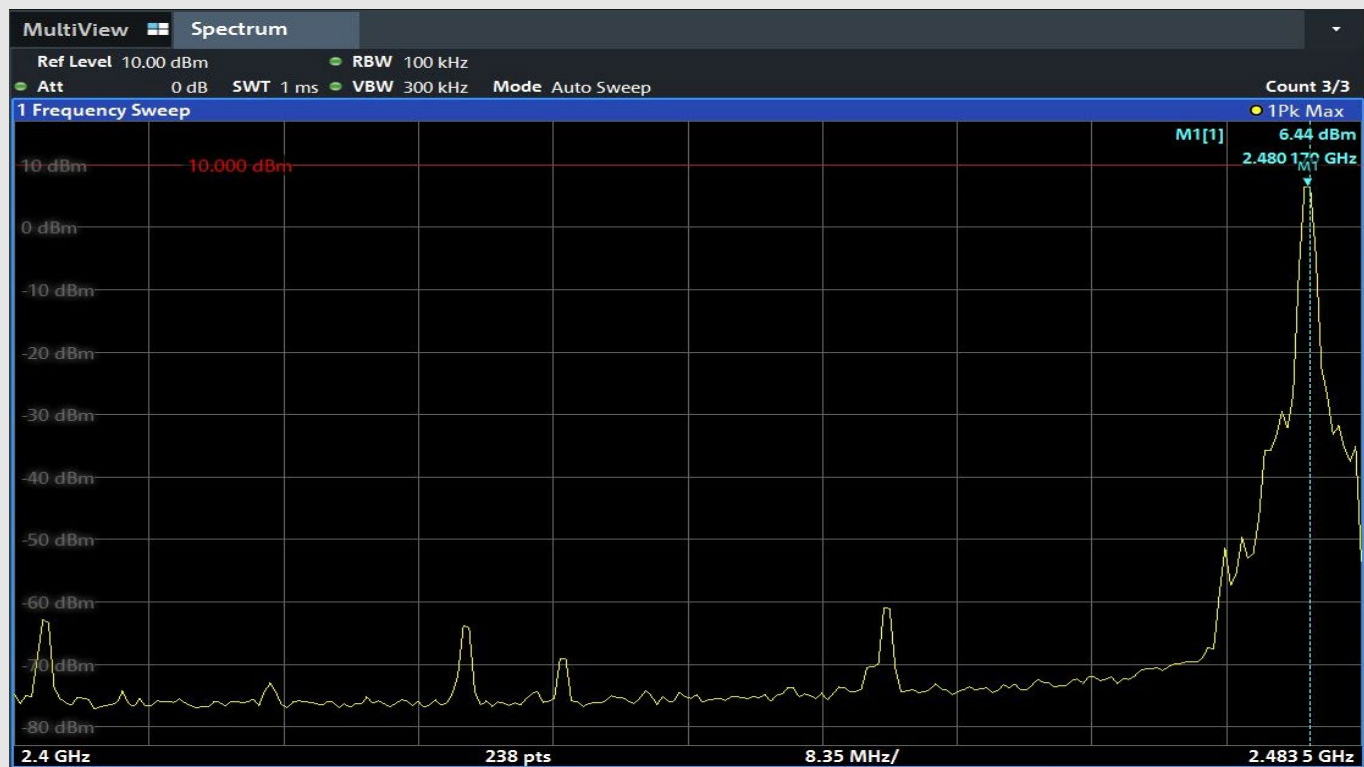
Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	238	~ 238
Sweeptime	23.700 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 40	max. 40
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB





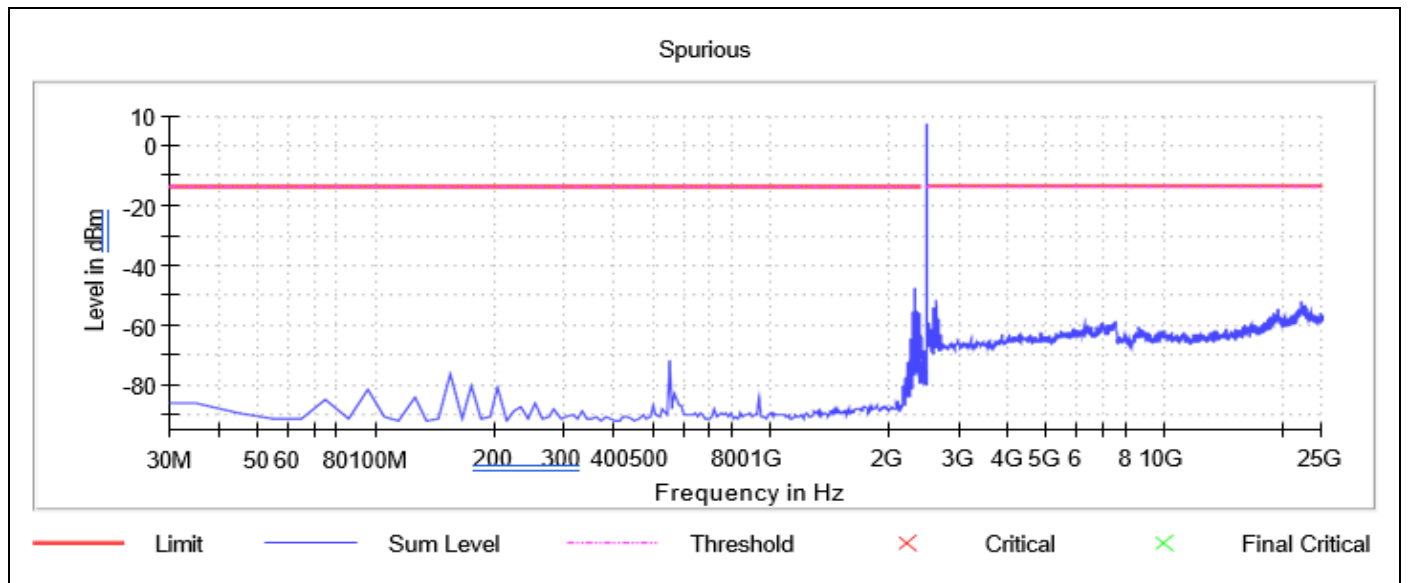
DH1 2480MHz

In Band Measurement



Pre Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2315.357143	-47.9	34.4	-13.5
2638.407124	-51.5	38.0	-13.5
22176.692743	-52.5	39.0	-13.5
22386.566911	-53.6	40.1	-13.5
22086.746671	-54.1	40.6	-13.5
22006.794607	-54.1	40.6	-13.5
2588.437084	-54.1	40.7	-13.5
22446.530959	-54.3	40.8	-13.5
22106.734687	-54.3	40.8	-13.5
22146.710719	-54.5	41.0	-13.5
21956.824567	-54.5	41.0	-13.5
22166.698735	-54.6	41.1	-13.5
22066.758655	-54.6	41.1	-13.5
22056.764647	-54.7	41.2	-13.5
22496.500999	-54.8	41.3	-13.5



3-DH1 2402MHz

In Band Measurement

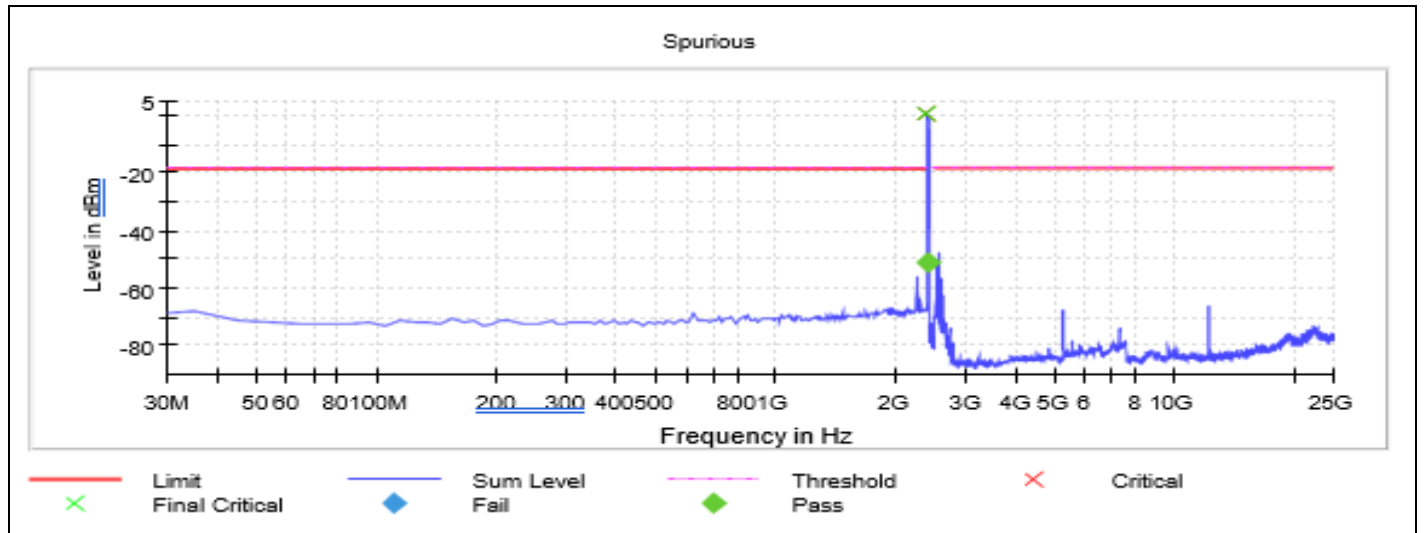


Final Measurement

Frequency (MHz)	Level Pre Measurement (dBm)	Level (dBm)	Margin (dB)	Limit (dBm)
2399.509786	-1.6	-51.3	32.5	-18.8

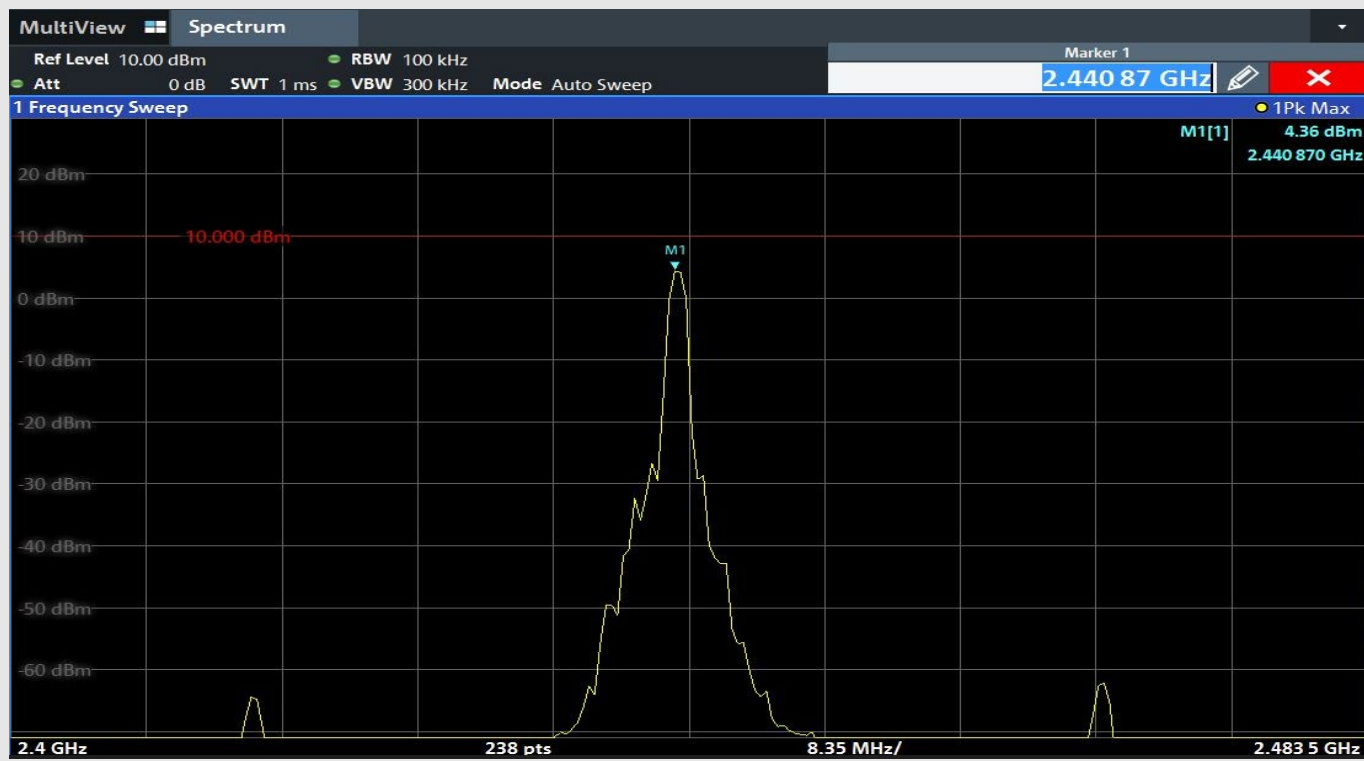
Pre Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2395.021008	0.2	-19.0	-18.8
2558.455060	-47.8	29.1	-18.8
2508.485020	-51.9	33.2	-18.8
2528.473036	-54.9	36.2	-18.8
2245.651261	-55.9	37.2	-18.8
2588.437084	-57.0	38.2	-18.8
2265.567227	-61.8	43.0	-18.8
2608.425100	-62.8	44.1	-18.8
2498.491012	-63.1	44.3	-18.8
2295.441176	-63.7	44.9	-18.8
2375.105042	-66.0	47.3	-18.8
12012.786618	-66.6	47.8	-18.8
1936.953782	-67.2	48.4	-18.8
2315.357143	-67.6	48.8	-18.8
1877.205882	-67.6	48.9	-18.8



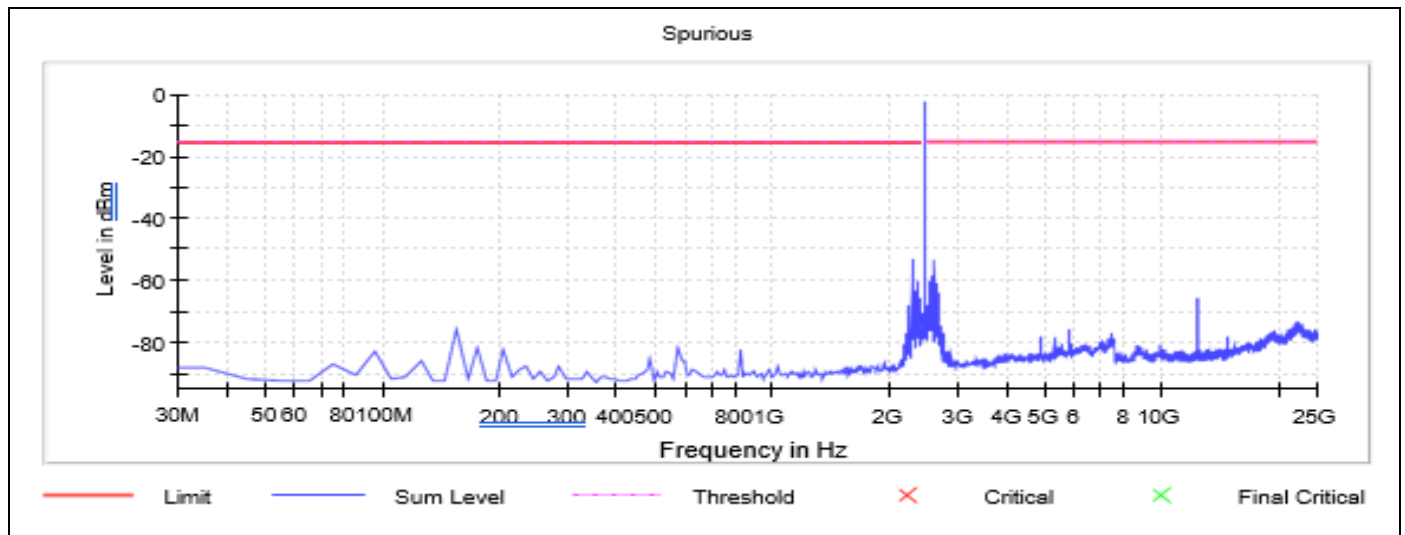
3-DH1 2441MHz

In Band Measurement



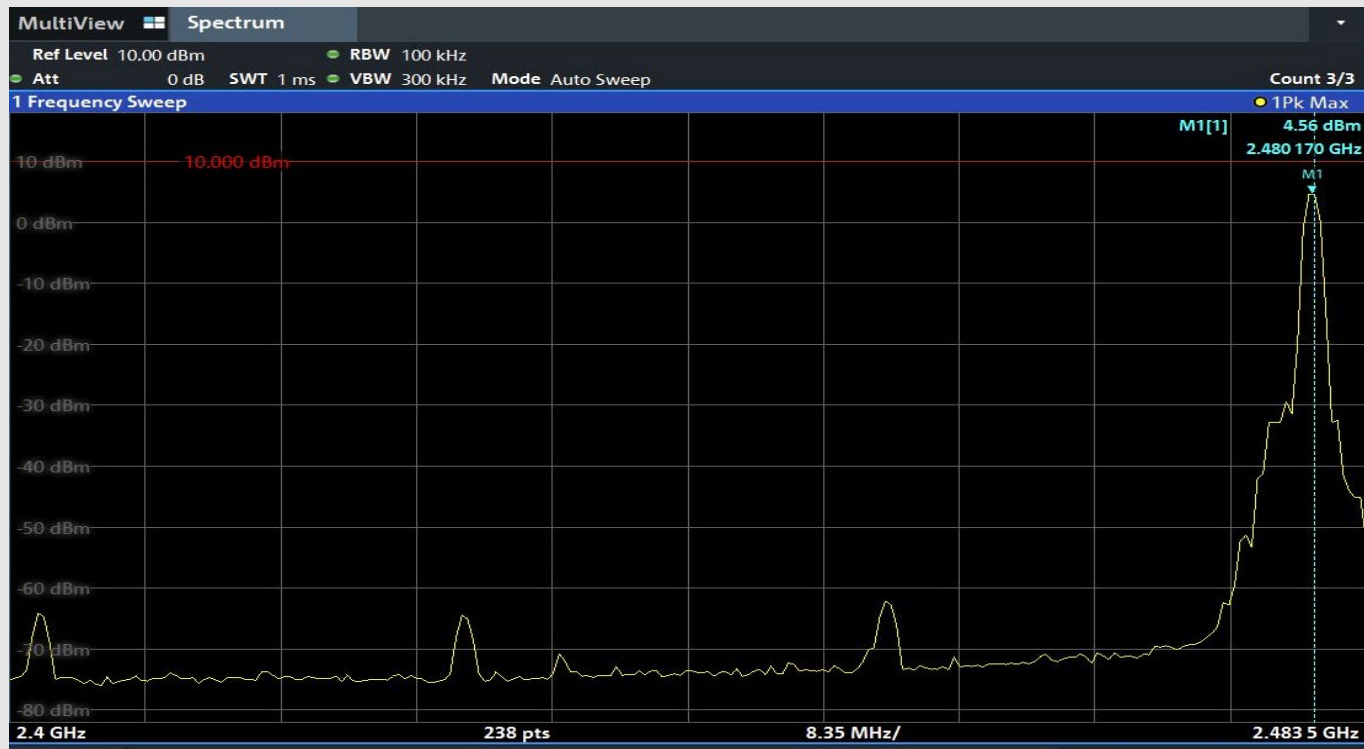
Pre Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2275.525210	-53.2	37.6	-15.6
2598.431092	-53.5	37.9	-15.6
2548.461052	-58.5	42.9	-15.6
2335.273109	-60.6	44.9	-15.6
2518.479028	-60.6	45.0	-15.6
2618.419108	-61.4	45.8	-15.6
2568.449068	-63.0	47.3	-15.6
2538.467044	-63.5	47.9	-15.6
2305.399160	-63.8	48.1	-15.6
2285.483193	-64.2	48.6	-15.6
2648.401132	-64.3	48.6	-15.6
12202.672770	-66.0	50.3	-15.6
2385.063025	-66.0	50.4	-15.6
2225.735294	-68.1	52.5	-15.6
2628.413116	-68.6	53.0	-15.6



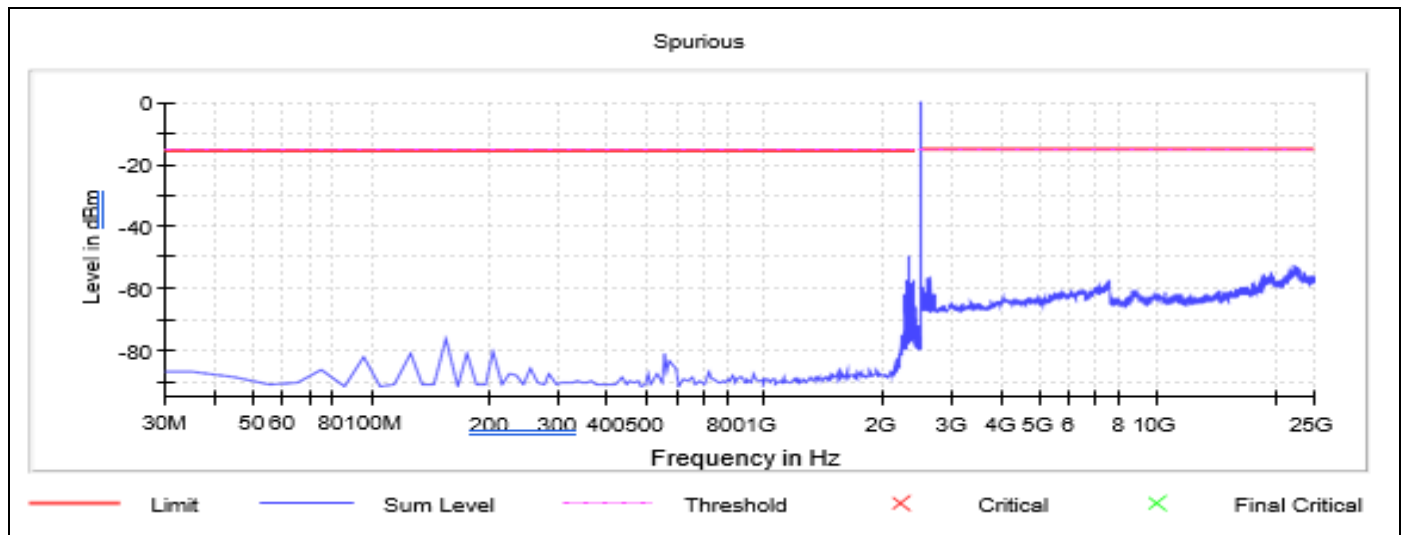
3-DH1 2480MHz

In Band Measurement



Pre Measurement

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
2315.357143	-50.0	34.5	-15.5
22086.746671	-53.0	37.6	-15.5
22056.764647	-53.5	38.1	-15.5
22076.752663	-53.6	38.2	-15.5
22336.596871	-53.7	38.3	-15.5
22146.710719	-53.8	38.4	-15.5
22266.638815	-53.9	38.4	-15.5
22096.740679	-53.9	38.5	-15.5
22046.770639	-54.0	38.5	-15.5
22136.716711	-54.0	38.5	-15.5
22206.674767	-54.1	38.6	-15.5
22396.560919	-54.1	38.6	-15.5
22676.393142	-54.2	38.7	-15.5
22186.686751	-54.2	38.7	-15.5
22066.758655	-54.2	38.8	-15.5



5. Radiated Testing

5.1 Test Summary

Start: 10/31/2023	End: 12/21/2023	Temperature: 22.3°C	Initials: AP/AB
		Humidity: 24.6%RH	

DUT S/N	J23225#2 J23225#3	DUT Operating Mode		BT Classic	
Comment	DH1, 3-DH1				
Antenna	Frequency Range	Polarization	Result Over/Under Limit		Notes
Loop	9kHz-30MHz	Parallel	<input type="checkbox"/> Over	<input checked="" type="checkbox"/> Under	√
		Perpendicular	<input type="checkbox"/> Over	<input checked="" type="checkbox"/> Under	√
		Ground-Parallel	<input type="checkbox"/> Over	<input checked="" type="checkbox"/> Under	√
Log Periodic	30MHz-1GHz	Horizontal	<input type="checkbox"/> Over	<input checked="" type="checkbox"/> Under	√
		Vertical	<input type="checkbox"/> Over	<input checked="" type="checkbox"/> Under	√
Horn	1GHz-18GHz	Horizontal	<input type="checkbox"/> Over	<input checked="" type="checkbox"/> Under	√
		Vertical	<input type="checkbox"/> Over	<input checked="" type="checkbox"/> Under	√
Horn	18GHz-27.5GHz	Horizontal	<input type="checkbox"/> Over	<input checked="" type="checkbox"/> Under	√
		Vertical	<input type="checkbox"/> Over	<input checked="" type="checkbox"/> Under	√

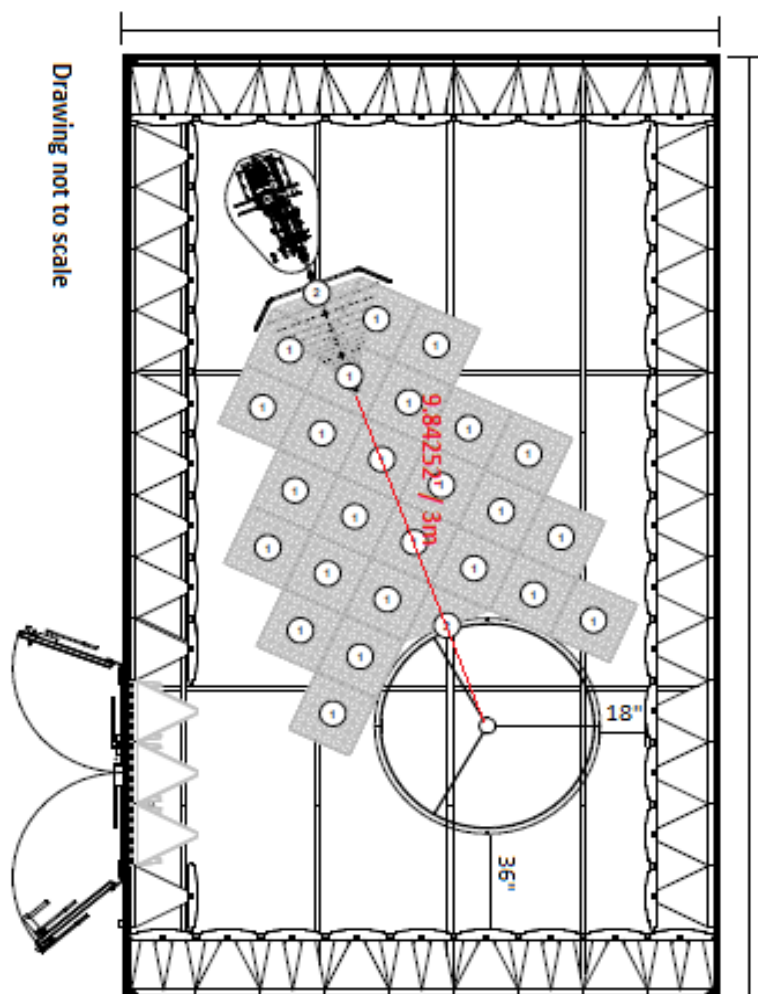
Notes: √ meets the requirements of the acceptance criteria.

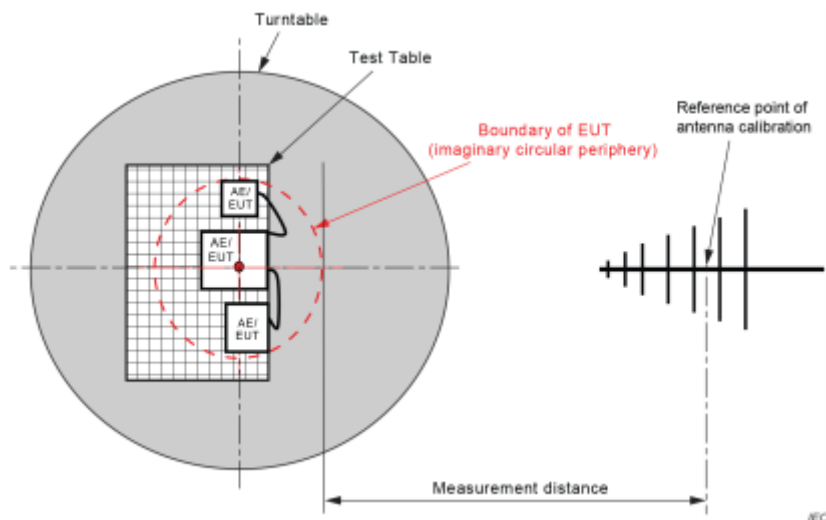
5.2 Test Setup

Semi-Anechoic Chamber Test Site-3 meter

Chamber Location	815 N Opdyke Rd Auburn Hills, Michigan 48326
Chamber Manufacturer:	ETS-Lindgren
Chamber Type	Semi-Anechoic
Model	FACT™ 3-2.0 Plus
Chamber Dimensions (L x W x H)	18'x18'x30'
Quiet Zone Diameter	2.0 meters
Quiet Zone Test Heights	1 & 2 meters (front only)
Test Distance	3.0 meters
Test Frequency Range	1-40 GHz
Measured Performance	4.87 dB Site sVSWR

Chamber Dimensions





5.3 Test Equipment Used

ID #	Equipment	Manufacturer	Model #	Serial #	Cal Due
BVD0217	Receiver 2Hz-44GHz	Rohde & Schwarz	ESW44	101871	6/15/2024
BVD0118	Antenna Mast Position Controller	ETS	7006-001	00214778/00214648	N/A
BVD0111	3 Meter Anechoic Chamber	ETS	N/A	N/A	N/A
BVD0247	Turn Table	ETS	920250	N/A	N/A
BVD0323	Foam Test Table For 3 Meter Chamber	ETS-Lindgren	LDT-1.5	N/A	N/A
BVD0069	Bore Sight Tower	ETS	2171B	226732	N/A
BVD0259	Optima 12V Blue top Marine battery	Optima	D34M	N/A	N/A
BVD0184	Preamplifier 29dB 1-18GHz	Rohde & Schwarz	TS-PR18	101646	6/22/2024
BVD0185	Preamplifier 45dB 18-40GHz	Rohde & Schwarz	TS-PR1840	100064	12/12/2024
BVD0187	Preamplifier 25dB cal to 100kHz-1GHz	Rohde & Schwarz	TS-PR1	102080	1/23/2025
BVD0267	Double Ridge Waveguide 800MHz-18GHz	Rohde & Schwarz	HF907	102832	6/22/2024
BVD0021	UltraLog Antenna 30-6000MHz	Rohde & Schwarz	HL562E	101113	6/26/2025
BVD0320	18-40GHz Horn Antenna	L3 Narda ATM	PNR 180-442-KF	136164-01	4/29/2024
BVD0012	Loop Antenna 9kHz-30MHz	Rohde & Schwarz	FMZB1519B	146	7/13/2024
BVD0480	Band Reject Filter 50dB from 2400 to 2500MHz	Micro-Tronics	BRM50702	G482	6/15/2024
BVD0394	Double Shielded N-Type Cable 6.9 Meter	Rohde & Schwarz	N-Type	N/A	4/3/2024
BVD0398	Double Shielded N-Type Cable 2 Meter	Rohde & Schwarz	N-Type	N/A	12/29/2024
BVD0563	RF Cable Assembly	Huber+Suhner, inc	SUCOFLEX 102A	502215/2A	9/12/2024
BVD0407	Double Shielded N-Type Cable 410mm (For PreAmp)	Rohde & Schwarz	N-Type	N/A	10/12/2024
BVD0495	SMA Shielded Cable approx 100mm (for Pre-Amp)	Rohde & Schwarz	SMA-Type	N/A	4/29/2024
BVD0552	Double Shielded N-Type Cable 440mm (For PreAmp)	Electronic Assemblies	N-Type	N/A	4/19/2024
BVD0229	Temp and Humidity Meter	Fluke	971	12001009	5/25/2024
BVD0278	High Speed CAN Optical Transceiver	SonTec	OPTOCAN 2000	CAN20/102HS	N/A
BVD0280	High Speed CAN Optical Transceiver	SonTec	OPTOCAN 2000	CAN20/104HS	N/A

Equipment List (Software)

ID #	Equipment	Manufacturer	Model	Version No.	
N/A	EMC Test Software	Rodhe & Schwarz	EMC32	11.20.00	N/A

Customer Supplied Equipment

ID #	Equipment	Manufacturer	Model	Serial #	Version No.
N/A	Harness	Harman	1.7m	N/A	N/A
N/A	Ethernet Converter	Harman	B365_9900_12KK	N/A	N/A
N/A	USB/CAN Adapter	Gridconnect	Peak	IPEH-002021- 158698	N/A
N/A	Ethernet Adapter	Trendnet	TU2-ET100	RA0JU56004689	6.0R

5.4 Test Limits and Procedures

Radiated emissions that 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). Other emissions shall be at least 20dB below the highest level of the desired power.

Frequencies (MHz)	Field strength ($\mu\text{V}/\text{m}$)	Field strength ($\text{dB}\mu\text{V}/\text{m}$)	Measurement distance (meters)
0.009 ~ 0.490	$2400/F(\text{kHz})$	48.5 - 13.8	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	33.8 - 23	30
1.705 ~ 30.0	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

Note:

- The lower limit shall apply at the transition frequencies.
- As per 15.35(b), for frequencies above 1000MHz, the field strength limits based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- For performing measurements at a specified distance of 3m, the values are extrapolated using extrapolation factor.
Frequencies below 30MHz are extrapolated using 40dB/decade.
Frequencies above 30MHz are extrapolated using 20dB/decade.

Frequencies (MHz)	Formula for Limits derivation for below 30MHz	Limits for frequencies below 30MHz ($\text{dB}\mu\text{V}/\text{m}$)
0.009 ~ 0.490	$2400/F(\text{kHz}) + 40 \text{ Log } (300\text{m}/3\text{m})$	128.5 ~ 93.8
0.490 ~ 1.705	$24000/F(\text{kHz}) + 40 \text{ Log } (30\text{m}/3\text{m})$	73.8 ~ 62.96
1.705 ~ 30.0	$29.54 + 40 \text{ Log } (30\text{m}/3\text{m})$	69.54

The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω .

The measurement procedures are as per ANSI C63.10-2013 Sections 6.3, Section 6.4, Section 6.5, and Section 6.6

1. The table height for emissions measurements
 - i) Below 1 GHz, the table height is 80 cm above the reference ground plane.
 - ii) Above 1 GHz, the table height is 1.5 m
2. Radiated emission tests are performed in the frequency range
 - i) 9 kHz to 30 MHz, using a calibrated loop antenna
 - ii) 30 MHz to 1GHz, using a calibrated log antenna
 - iii) Above 1 GHz using a calibrated horn antenna
3. Measurements performed with the EUT rotated from 0° to 360°, the antenna height scanned between 1m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:- For the measurements below 1GHz, any measurements found close or above the limits with peak detectors are re-measured and recorded with Q-Peak detectors.

5.5 Test Plots

Uncertainty

Radiated Emissions (30MHz to 40GHz)

Test Engineer Initials: AP/AB

The test is to measure the radiated emissions of the EUT. Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- NSA Calibration
- Etc., details see the below table

30MHz to 1GHZ

Source of Uncertainty	Value (dB)	ProbabilityDistribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Filter Insertion Loss	0.25	Normal	2	1	0.125
Antenna Factor	0.65	Normal	2	1	0.325
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.86605081
PRF Response	1.5	Rectangular	1.732	1	0.86605081
Mismatch Filter – Receiver	0.25	U-Shape	2.449	1	0.1768033
NSA Calibration	4.0	Triangular	1.414	1	1.633332
ETS Foam Table (LDT-1.5)	1.8	Rectangular	1.732	1	1.039261
Combined Standard Uncertainty (square root of the sum of the squares)					2.113781
Expanded Uncertainty (K=2)					4.227562

The total derived measurement uncertainty is +/- 4.228 dB

1GHz to 40GHz

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105000
Filter Insertion Loss	0.25	Normal	2	1	0.125000
Antenna Factor	0.65	Normal	2	1	0.325000
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.866051
PRF Response	1.5	Rectangular	1.732	1	0.866051
Mismatch Filter – Receiver	0.25	U-Shape	1.414	1	0.176803
VSWR Calibration	2.0	Triangular	2.449	1	0.816659
ETS Foam Table (LDT-1.5)	1.8	Rectangular	1.732	1	1.039261
Combined Standard Uncertainty (square root of the sum of the squares)					1.869213
Expanded Uncertainty (K=2)					3.738426

The total derived measurement uncertainty is +/- 3.738 dB.

Remarks:

1. Level Q-Peak Reading (dBμV/m) = Raw Q-Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Q-Peak Reading – Limit

Remarks:

1. Level Peak Reading (dBμV/m) = Raw Peak Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Peak Reading – Limit

Remarks:

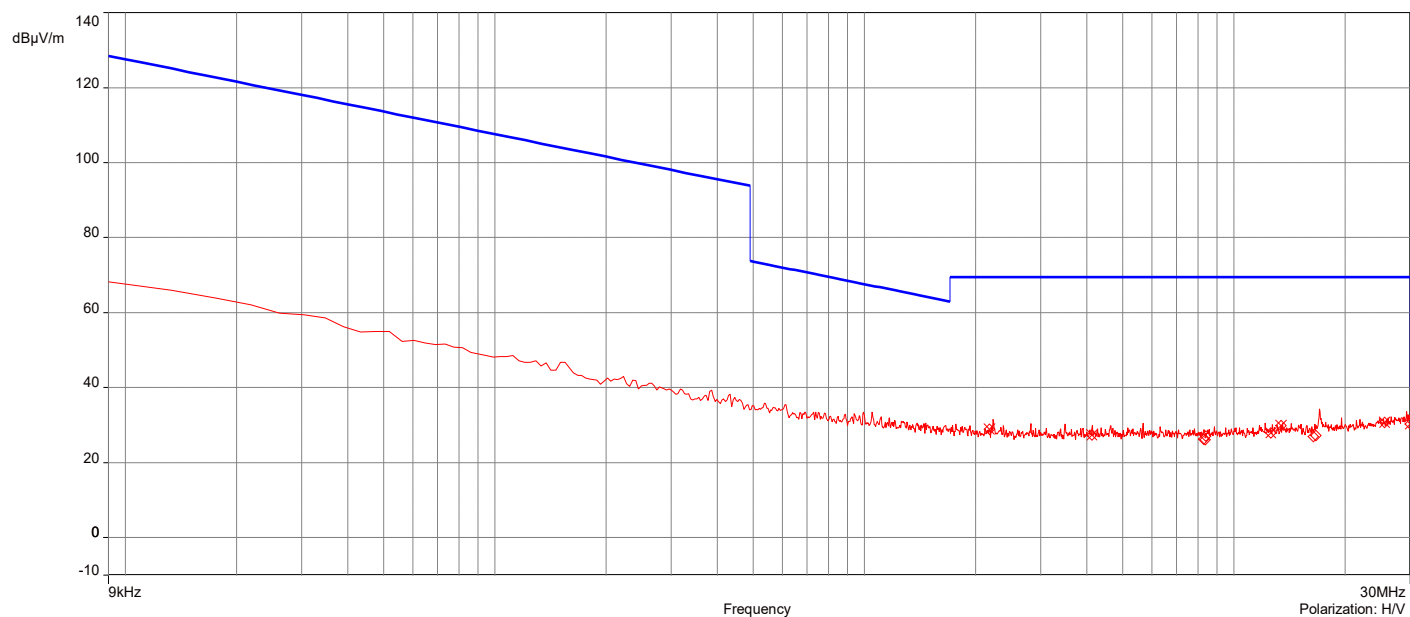
1. Level Average Reading (dBμV/m) = Raw Average Level + Correction Factor
2. Correction Factor (dB) = Antenna Factor + Cable Loss – Preamplifier Gain
3. Margin = Level Average Reading – Limit

J23225_BT_DH1_Ch 39_9kHz-30MHz_Ground-Parallel

10/31/2023 5:36:46 PM

No	Frequency (MHz)	Level Q- Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.177231MHz	28.97	19.20	69.54	-40.57	3.05	358.00	H/V	Passed
2.	4.126924MHz	27.36	19.41	69.54	-42.18	3.05	45.70	H/V	Passed
3.	12.577024MHz	27.97	19.77	69.54	-41.57	3.05	168.00	H/V	Passed
4.	13.399752MHz	29.88	19.83	69.54	-39.66	3.05	296.30	H/V	Passed
5.	25.560698MHz	30.69	21.17	69.54	-38.85	3.05	262.20	H/V	Passed
6.	30MHz	30.35	22.00	40.00	-9.65	3.05	67.90	H/V	Passed

Overall Graphs:

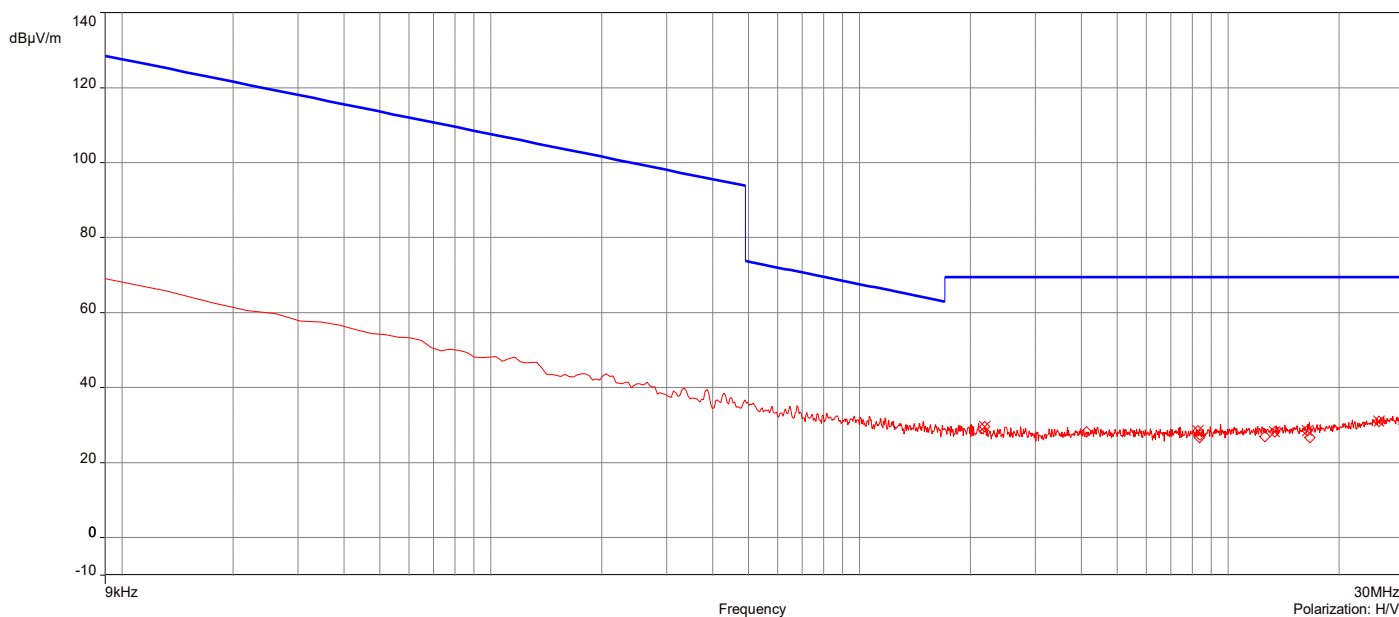


J23225_BT_DH1_Ch 39_9kHz-30MHz_Parallel

10/31/2023 5:31:45 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.185801MHz	29.59	19.20	69.54	-39.95	3.05	251.80	H/V	Passed
2.	8.291984MHz	28.47	19.32	69.54	-41.07	3.05	304.40	H/V	Passed
3.	13.378327MHz	28.23	19.83	69.54	-41.31	3.05	300.30	H/V	Passed
4.	16.420706MHz	28.53	19.97	69.54	-41.01	3.05	194.10	H/V	Passed
5.	25.624973MHz	30.94	21.17	69.54	-38.60	3.05	291.30	H/V	Passed
6.	30MHz	30.36	22.00	40.00	-9.64	3.05	355.60	H/V	Passed

Overall Graphs:

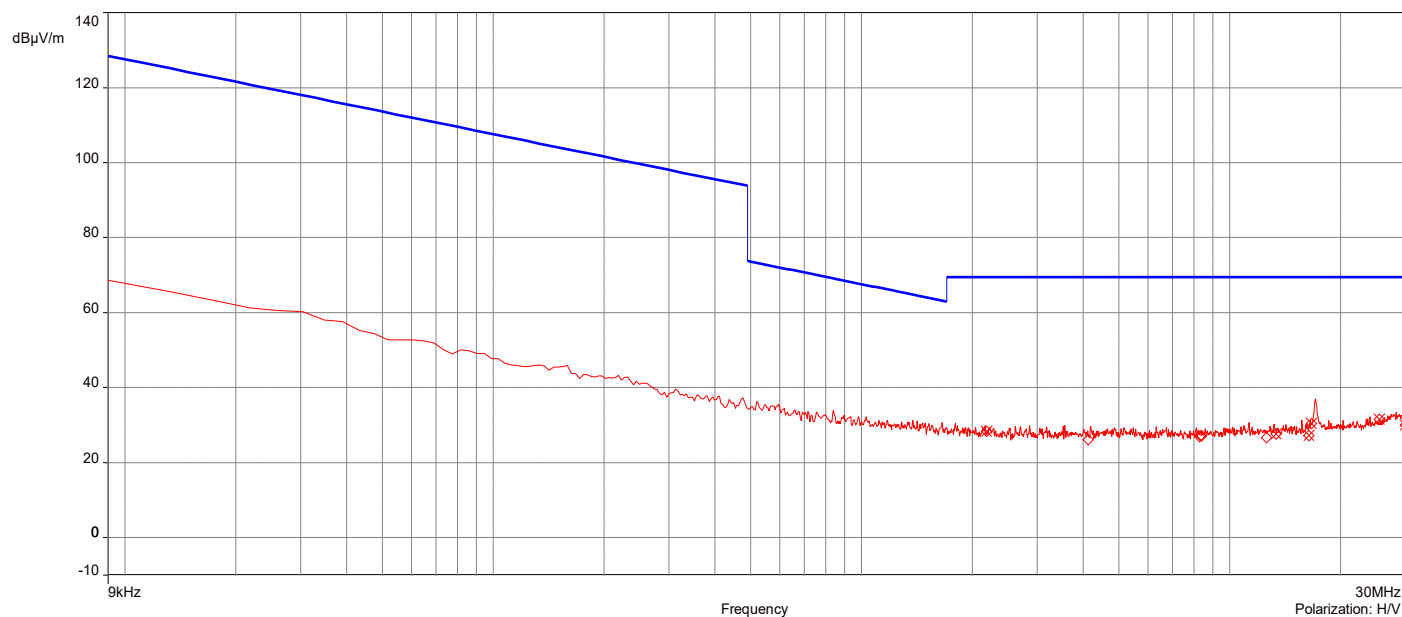


J23225_BT_DH1_Ch 39_9kHz-30MHz_Perpendicular

10/31/2023 5:34:29 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.185801MHz	28.29	19.20	69.54	-41.25	3.05	353.60	H/V	Passed
2.	13.386897MHz	27.72	19.83	69.54	-41.82	3.05	44.40	H/V	Passed
3.	16.420706MHz	27.23	19.97	69.54	-42.31	3.05	153.30	H/V	Passed
4.	16.694949MHz	30.43	20.01	69.54	-39.11	3.05	264.70	H/V	Passed
5.	25.522132MHz	31.60	21.17	69.54	-37.94	3.05	175.20	H/V	Passed
6.	30MHz	29.96	22.00	40.00	-10.04	3.05	155.30	H/V	Passed

Overall Graphs:

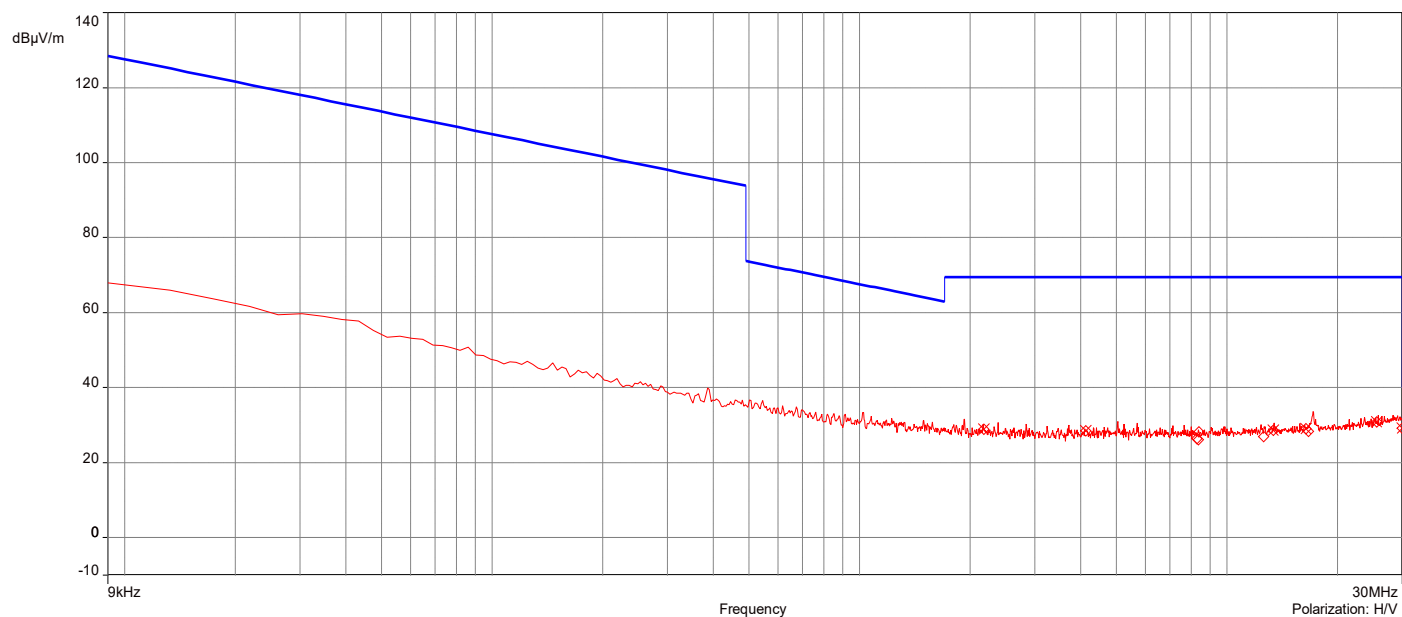


J23225_BT_3-DH1_Ch 39_9kHz-30MHz_Ground-Parallel

10/31/2023 5:40:58 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.181516MHz	28.85	19.20	69.54	-40.69	3.05	307.50	H/V	Passed
2.	4.126924MHz	28.49	19.41	69.54	-41.05	3.05	356.50	H/V	Passed
3.	13.369757MHz	28.66	19.83	69.54	-40.88	3.05	355.60	H/V	Passed
4.	16.420706MHz	29.11	19.97	69.54	-40.43	3.05	89.70	H/V	Passed
5.	25.586408MHz	30.85	21.17	69.54	-38.69	3.05	38.30	H/V	Passed
6.	30MHz	29.16	22.00	40.00	-10.84	3.05	279.90	H/V	Passed

Overall Graphs:

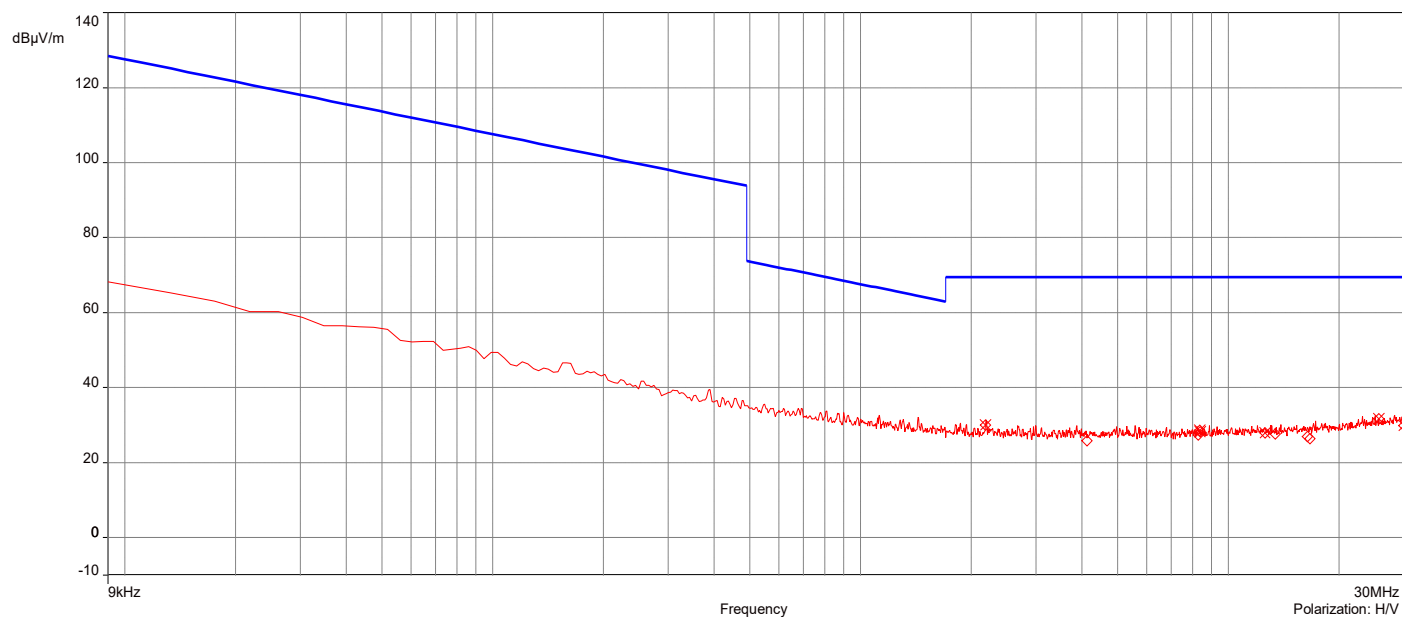


J23225_BT_3-DH1_Ch 39_9kHz-30MHz_Parallel

10/31/2023 5:43:36 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.190086MHz	30.06	19.21	69.54	-39.48	3.05	71.10	H/V	Passed
2.	8.364829MHz	28.60	19.32	69.54	-40.94	3.05	173.30	H/V	Passed
3.	8.377685MHz	28.15	19.32	69.54	-41.39	3.05	320.10	H/V	Passed
4.	12.577024MHz	27.98	19.77	69.54	-41.56	3.05	225.90	H/V	Passed
5.	25.663539MHz	31.67	21.18	69.54	-37.87	3.05	201.40	H/V	Passed
6.	30MHz	29.88	22.00	40.00	-10.12	3.05	357.30	H/V	Passed

Overall Graphs:

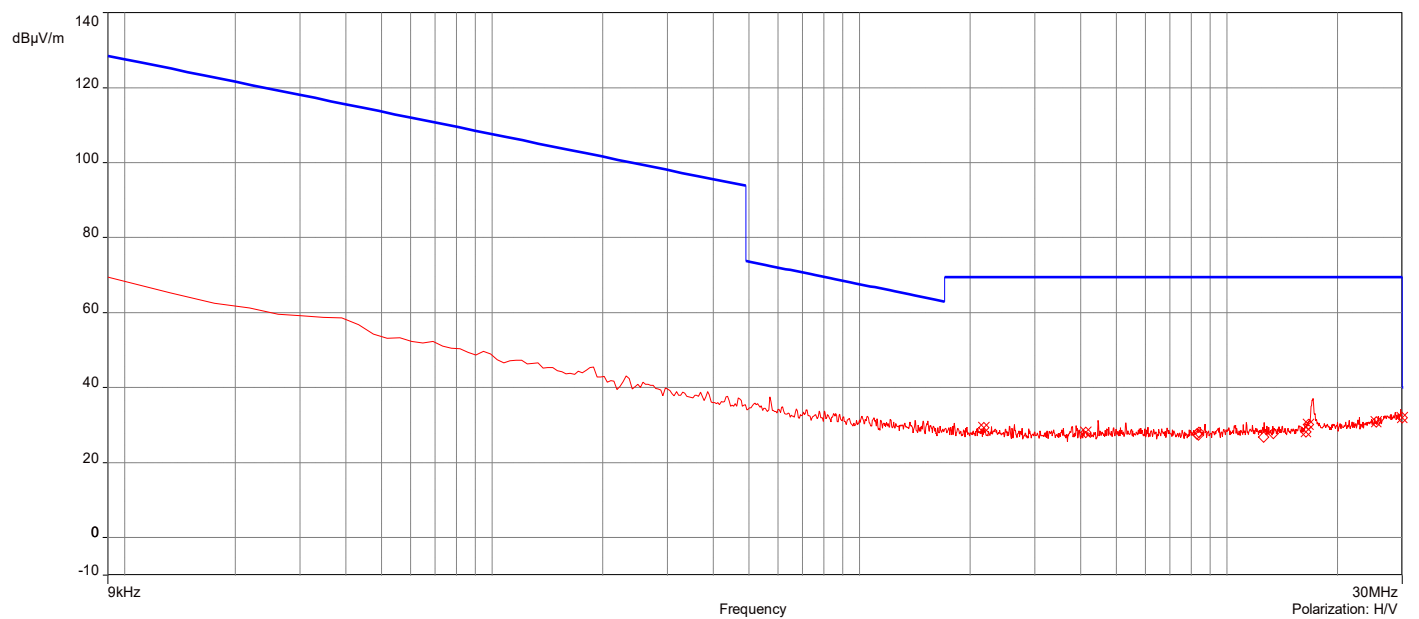


J23225_BT_3-DH1_Ch 39_9kHz-30MHz_Perpendicular

10/31/2023 5:46:49 PM

No	Frequency (MHz)	Level Q- Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.181516MHz	29.29	19.20	69.54	-40.25	3.05	358.90	H/V	Passed
2.	4.126924MHz	28.07	19.41	69.54	-41.47	3.05	314.50	H/V	Passed
3.	16.420706MHz	28.18	19.97	69.54	-41.36	3.05	110.80	H/V	Passed
4.	16.694949MHz	30.13	20.01	69.54	-39.41	3.05	142.70	H/V	Passed
5.	25.526417MHz	30.82	21.17	69.54	-38.72	3.05	185.80	H/V	Passed
6.	30MHz	32.00	22.00	40.00	-8.00	3.05	73.50	H/V	Passed

Overall Graphs:

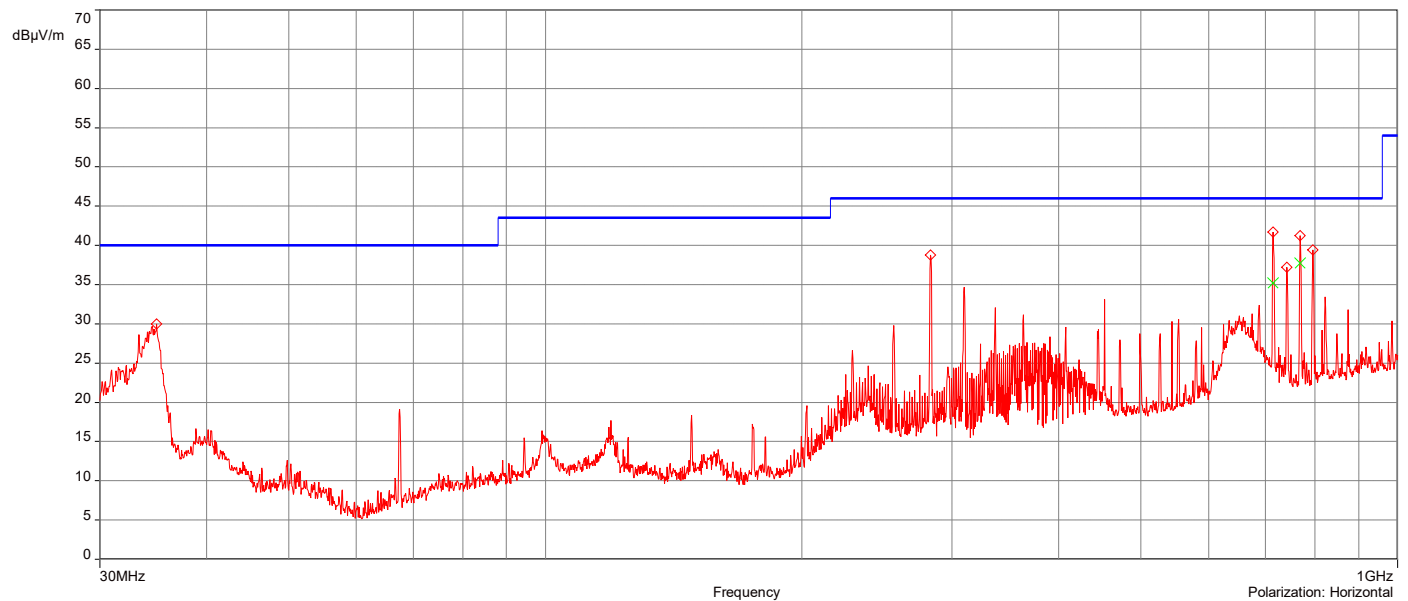


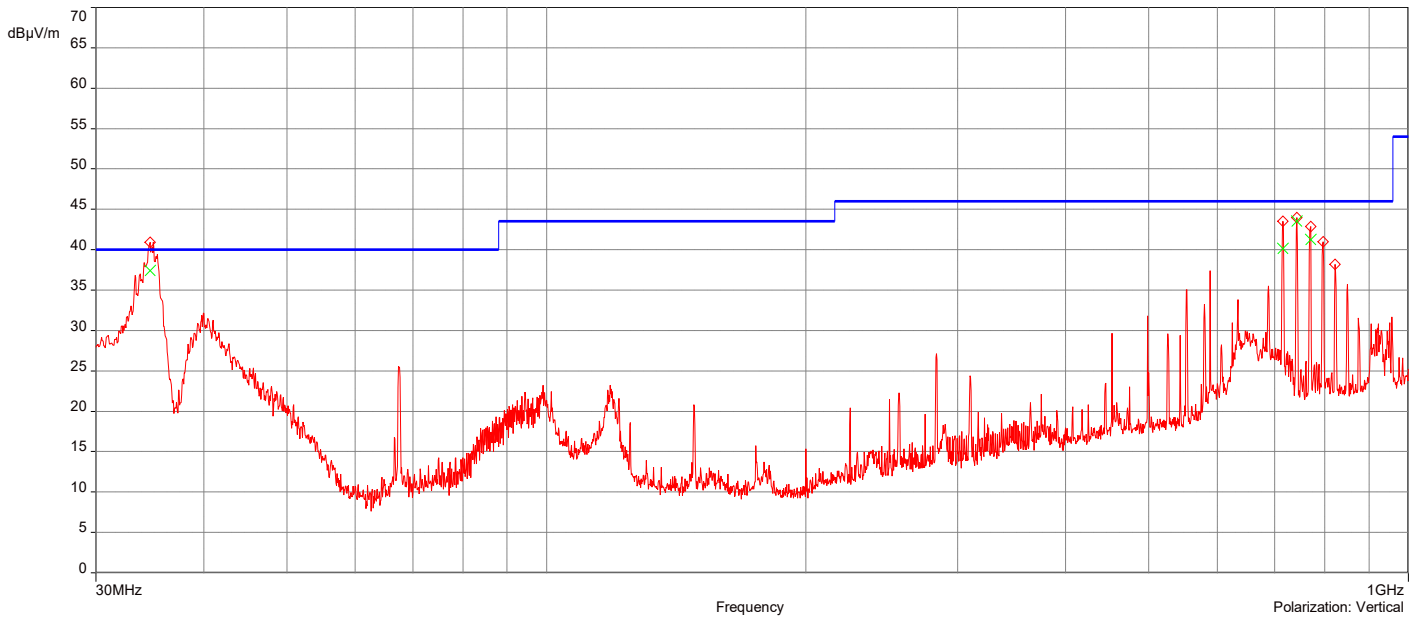
J23225_BT_DH1_Ch 39_30MHz-1GHz

11/21/2023 3:53:31 PM

No	Frequency (MHz)	Level Q- Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.679099MHz	37.43	-9.49	40.00	-2.57	1.00	137.90	Vertical	Passed
2.	714.80322MHz	40.15	-3.70	46.00	-5.85	1.50	1.10	Vertical	Passed
3.	742.64957MHz	43.55	-3.40	46.00	-2.45	1.50	352.90	Vertical	Passed
4.	770.09648MHz	41.24	-3.11	46.00	-4.76	1.25	0.60	Vertical	Passed
5.	714.28966MHz	35.22	-2.69	46.00	-10.78	1.25	44.90	Horizontal	Passed
6.	768.78405MHz	37.73	-1.84	46.00	-8.27	1.00	307.90	Horizontal	Passed

Overall Graphs:



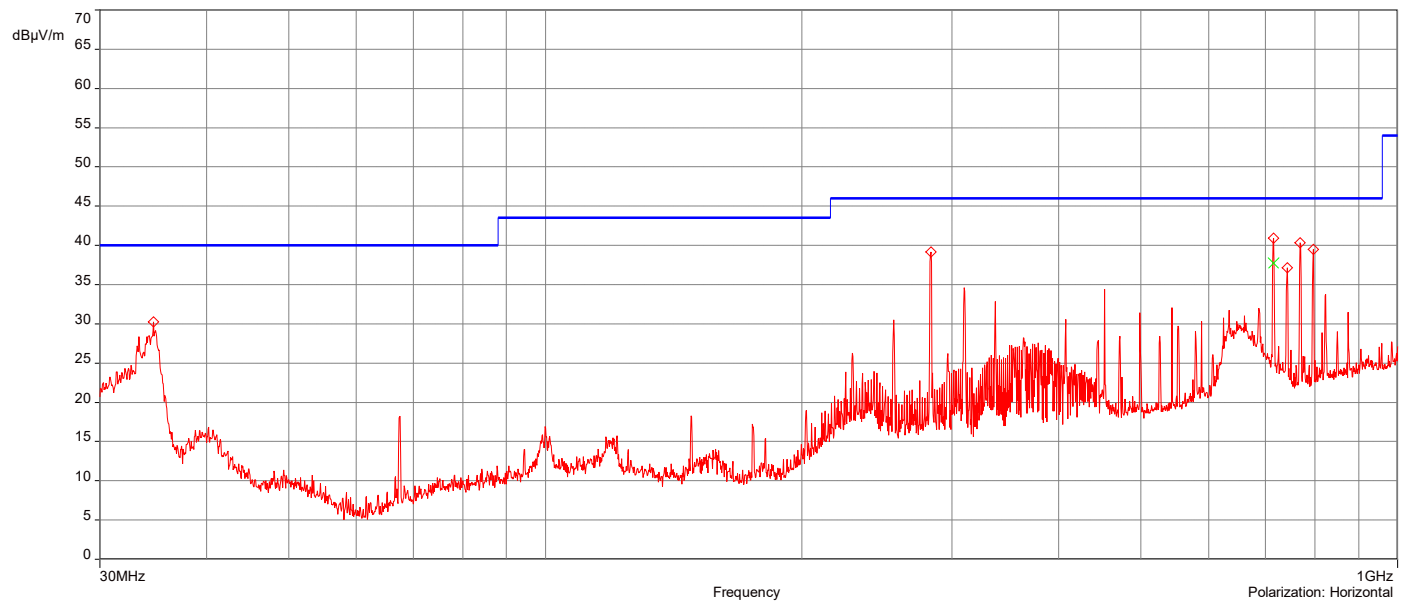


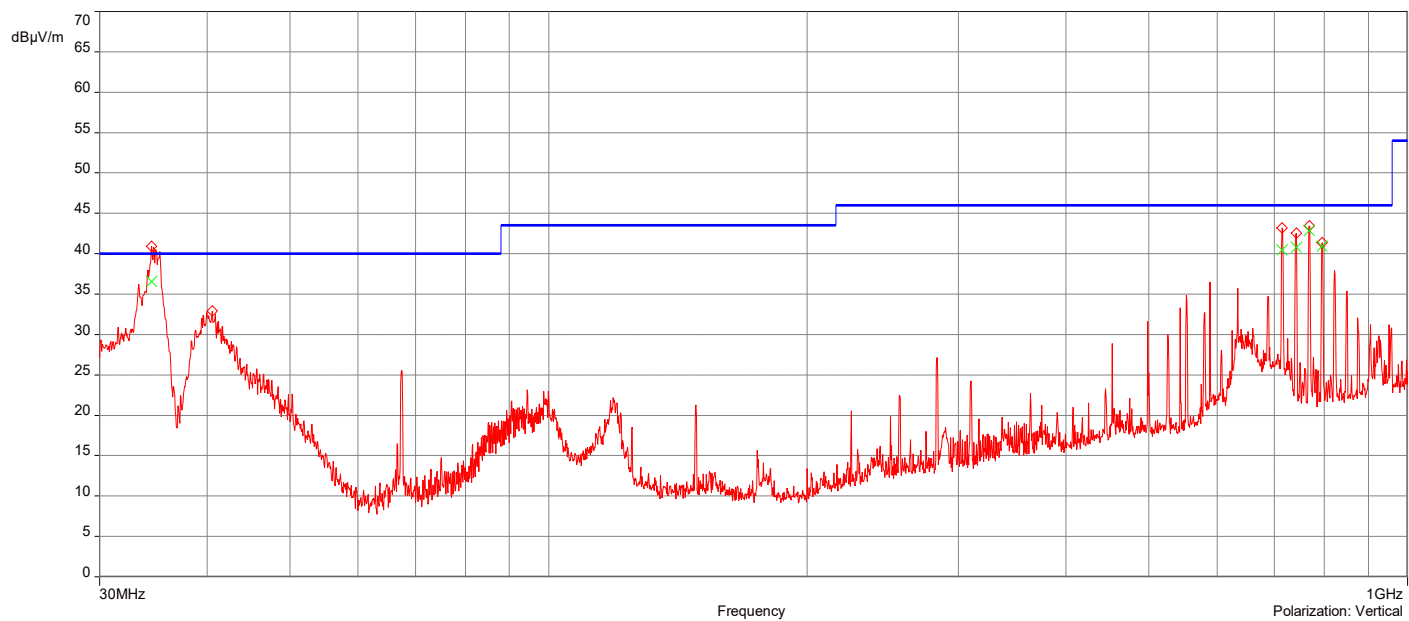
J23225_BT_DH1_Ch 78_30MHz-1GHz

11/21/2023 4:50:12 PM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	34.507912MHz	36.57	-9.40	40.00	-3.43	1.00	108.10	Vertical	Passed
2.	714.57497MHz	40.49	-3.73	46.00	-5.51	1.50	356.90	Vertical	Passed
3.	742.07895MHz	40.82	-3.47	46.00	-5.18	1.50	355.10	Vertical	Passed
4.	768.61286MHz	42.86	-3.12	46.00	-3.14	1.50	356.90	Vertical	Passed
5.	795.37502MHz	40.94	-2.63	46.00	-5.06	1.25	0.10	Vertical	Passed
6.	714.91735MHz	37.73	-2.68	46.00	-8.27	1.25	318.90	Horizontal	Passed

Overall Graphs:



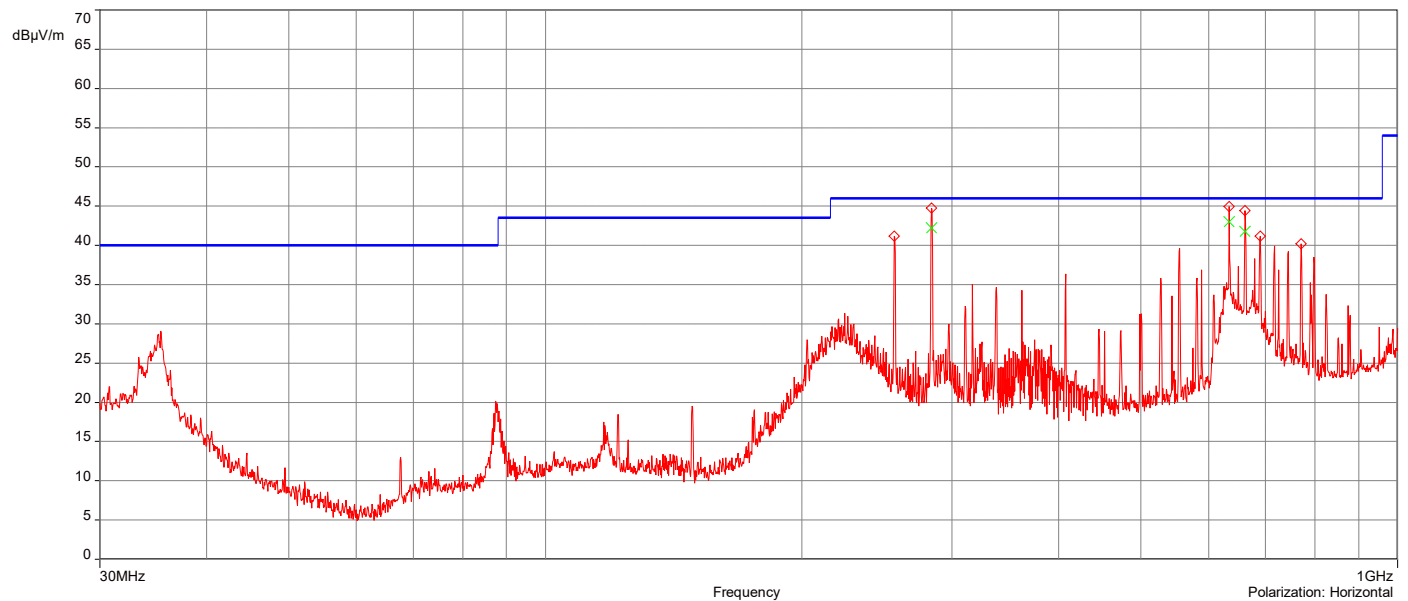


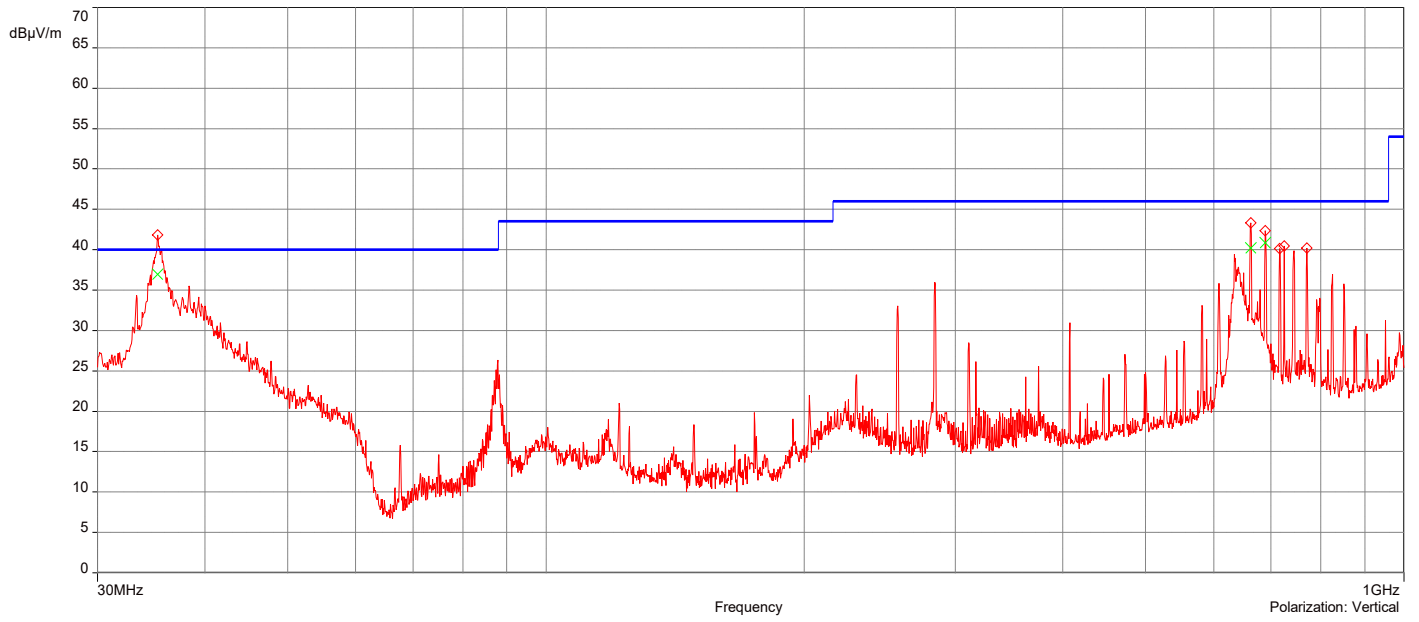
J23225_BT_3-DH1_Ch 39_30MHz-1GHz

11/22/2023 11:12:45 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	35.249721MHz	36.96	-9.80	40.00	-3.04	1.00	159.10	Vertical	Passed
2.	663.10489MHz	40.24	-4.50	46.00	-5.76	1.50	8.10	Vertical	Passed
3.	689.52468MHz	40.83	-4.10	46.00	-5.17	1.50	0.10	Vertical	Passed
4.	283.86964MHz	42.22	-11.70	46.00	-3.78	1.00	349.90	Horizontal	Passed
5.	634.23142MHz	43.01	-3.80	46.00	-2.99	1.25	339.90	Horizontal	Passed
6.	662.36308MHz	41.74	-3.30	46.00	-4.26	1.25	30.10	Horizontal	Passed

Overall Graphs:



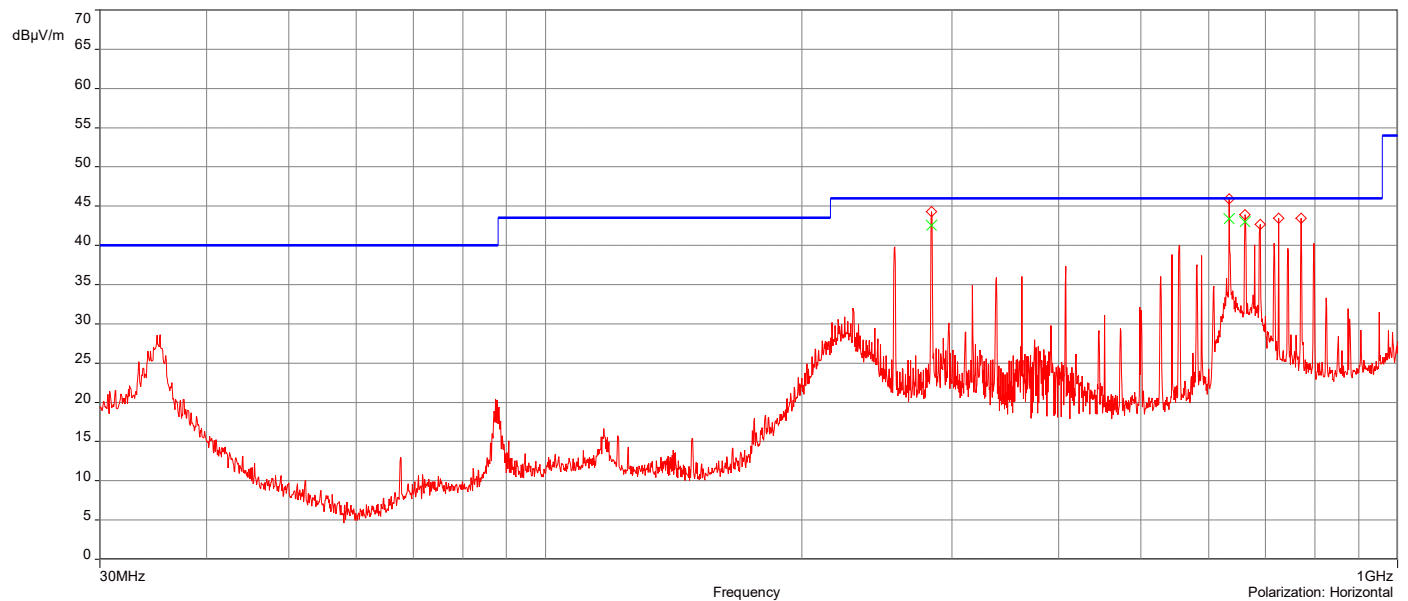


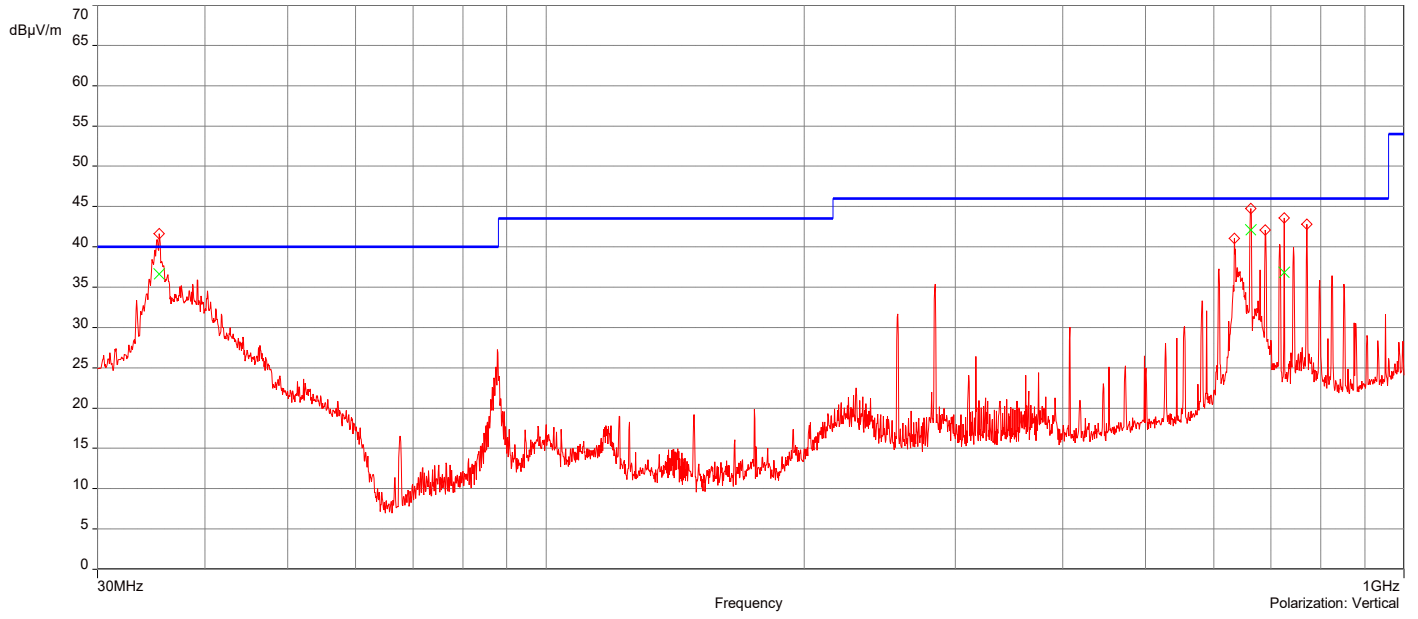
J23225_BT_3-DH1_Ch 78_30MHz-1GHz

11/22/2023 11:51:15 AM

No	Frequency (MHz)	Level Q-Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	35.420907MHz	36.62	-9.90	40.00	-3.38	1.00	321.90	Vertical	Passed
2.	662.53427MHz	42.07	-4.50	46.00	-3.93	1.00	358.90	Vertical	Passed
3.	724.84617MHz	36.83	-3.66	46.00	-9.17	1.50	358.90	Vertical	Passed
4.	283.9267MHz	42.58	-11.70	46.00	-3.42	1.00	3.10	Horizontal	Passed
5.	634.23142MHz	43.43	-3.80	46.00	-2.57	1.25	352.90	Horizontal	Passed
6.	662.13483MHz	42.99	-3.30	46.00	-3.01	1.25	43.90	Horizontal	Passed

Overall Graphs:





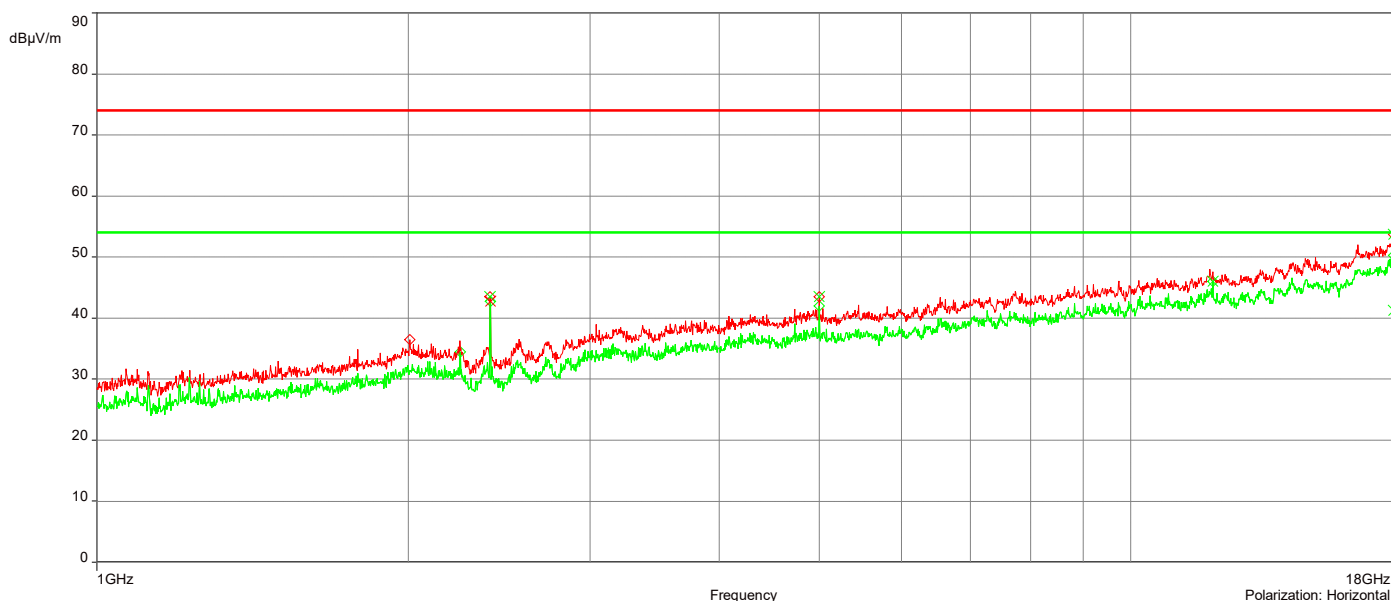
J23225_BT_DH1_Ch 0_1-18GHz

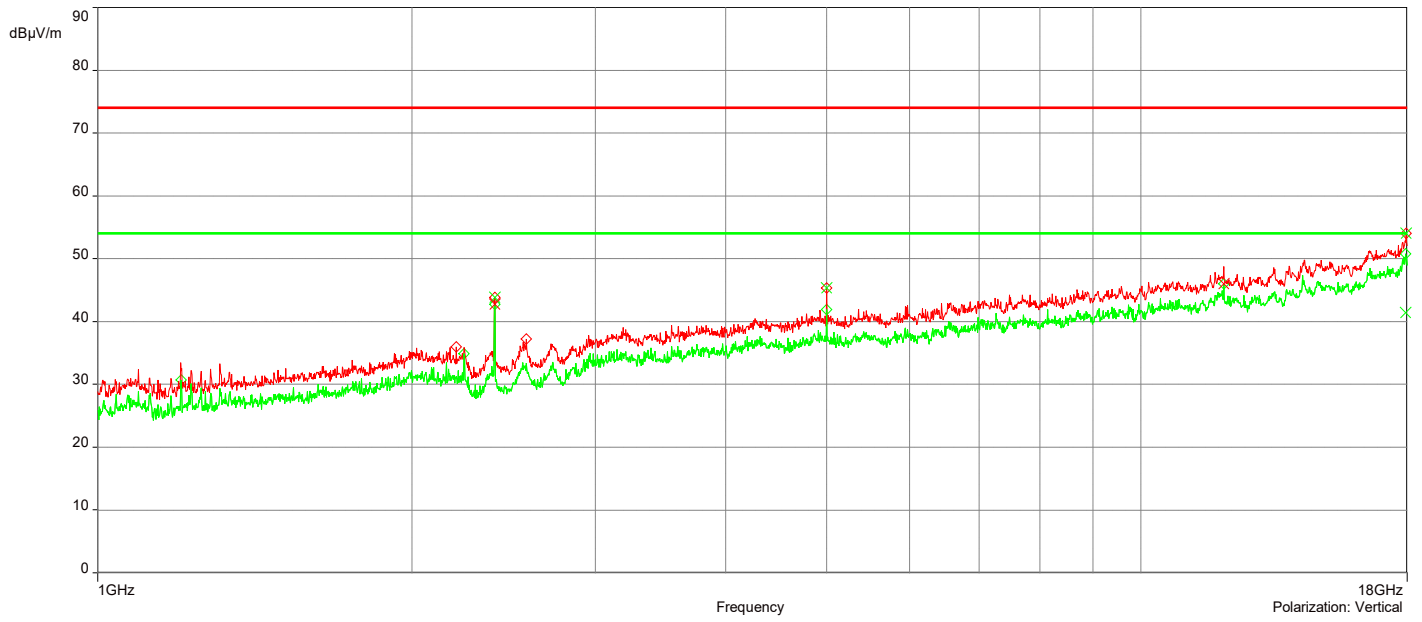
11/1/2023 6:59:30 PM

No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.4020412GHz	43.87	-1.67	74.00	-30.13	3.00	129.70	Vertical	Passed
2.	5.0001177GHz	45.32	4.87	74.00	-28.68	1.50	354.40	Vertical	Passed
3.	17.9609999GHz	54.01	19.34	74.00	-19.99	4.00	111.20	Vertical	Passed
4.	2.4015412GHz	43.54	-1.69	74.00	-30.46	1.50	194.00	Horizontal	Passed
5.	5.0001177GHz	43.51	4.91	74.00	-30.49	3.00	285.30	Horizontal	Passed
6.	17.9549999GHz	53.70	19.18	74.00	-20.30	2.50	31.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.4020412GHz	42.77	-1.67	54.00	-11.23	3.00	129.70	Vertical	Passed
2.	12.010824GHz	46.04	12.16	54.00	-7.96	2.00	158.20	Vertical	Passed
3.	17.936498GHz	41.45	19.03	54.00	-12.55	1.00	352.10	Vertical	Passed
4.	2.4020412GHz	42.75	-1.69	54.00	-11.25	3.00	0.10	Horizontal	Passed
5.	12.010824GHz	45.99	12.11	54.00	-8.01	2.00	0	Horizontal	Passed
6.	17.9524999GHz	41.22	19.15	54.00	-12.78	2.00	248.10	Horizontal	Passed

Overall Graphs:





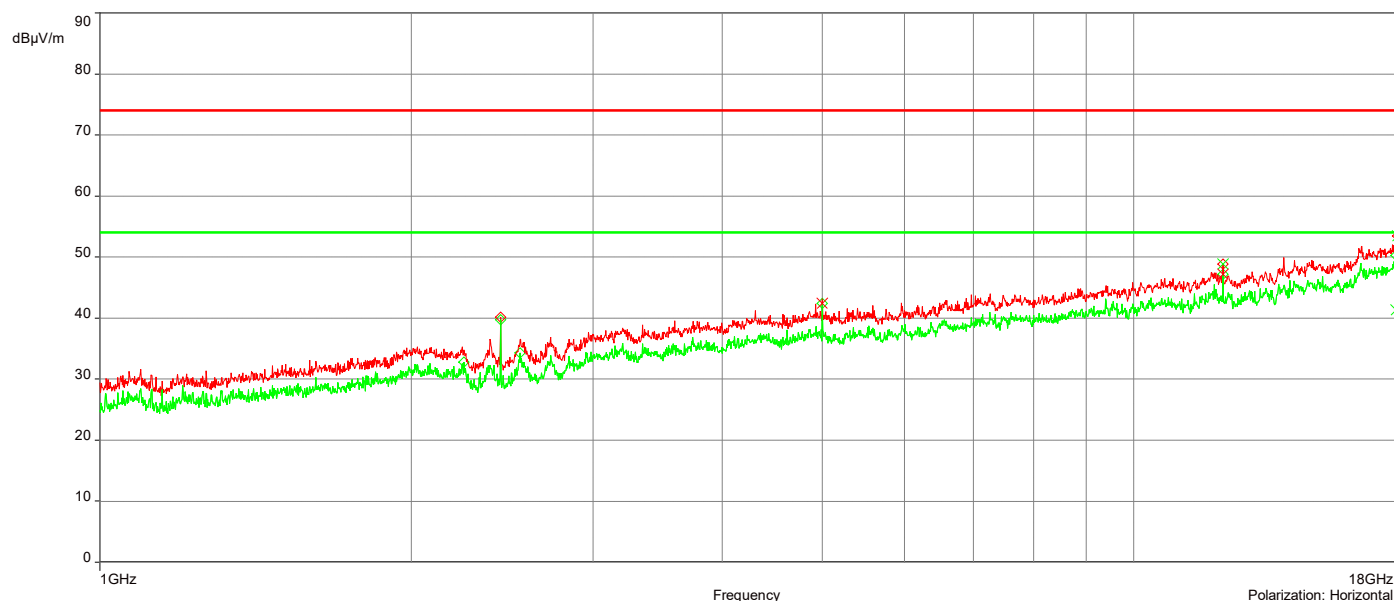
J23225_BT_DH1_Ch 39_1-18GHz

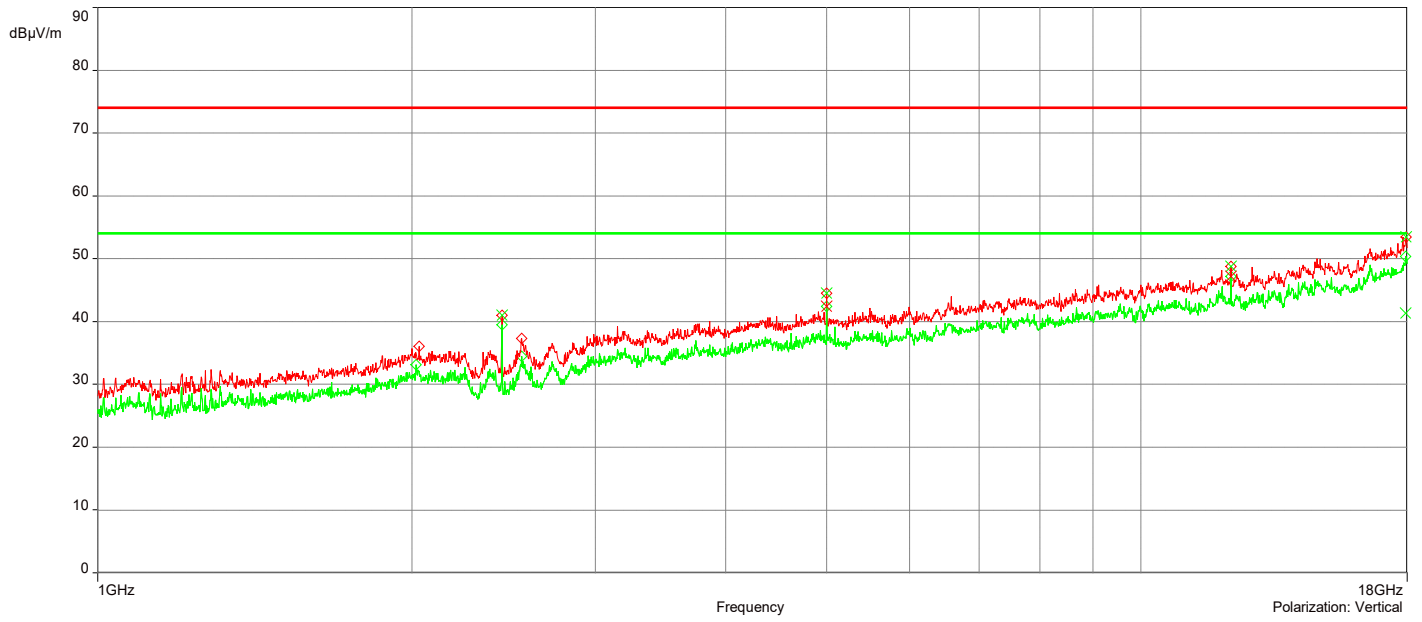
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.4410424GHz	40.96	-1.59	74.00	-33.04	4.00	146.60	Vertical	Passed
2.	5.0001177GHz	44.54	4.87	74.00	-29.46	2.00	5.70	Vertical	Passed
3.	12.20583GHz	48.73	11.88	74.00	-25.27	2.00	150.70	Vertical	Passed
4.	17.959999GHz	53.47	19.32	74.00	-20.53	1.50	70.60	Vertical	Passed
5.	12.20583GHz	48.81	11.87	74.00	-25.19	3.50	359.90	Horizontal	Passed
6.	17.9945GHz	53.49	19.90	74.00	-20.51	3.00	167.30	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	5.0001177GHz	42.41	4.87	54.00	-11.59	2.00	5.70	Vertical	Passed
2.	12.20583GHz	47.19	11.88	54.00	-6.81	2.00	150.70	Vertical	Passed
3.	17.944998GHz	41.31	19.14	54.00	-12.69	3.50	359.90	Vertical	Passed
4.	5.0001177GHz	42.45	4.91	54.00	-11.55	2.00	359.90	Horizontal	Passed
5.	12.20583GHz	47.17	11.87	54.00	-6.83	3.50	359.90	Horizontal	Passed
6.	17.944998GHz	41.30	19.06	54.00	-12.70	3.50	200.10	Horizontal	Passed

Overall Graphs:





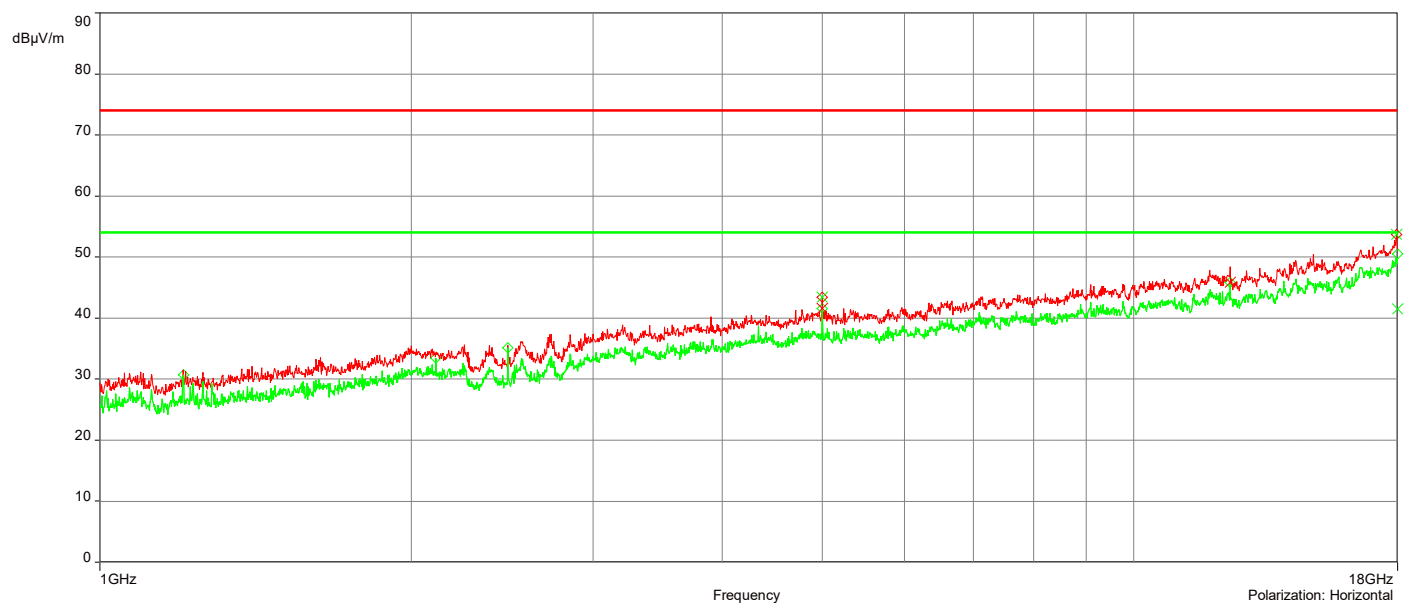
J23225_BT_DH1_Ch 78_1-18GHz

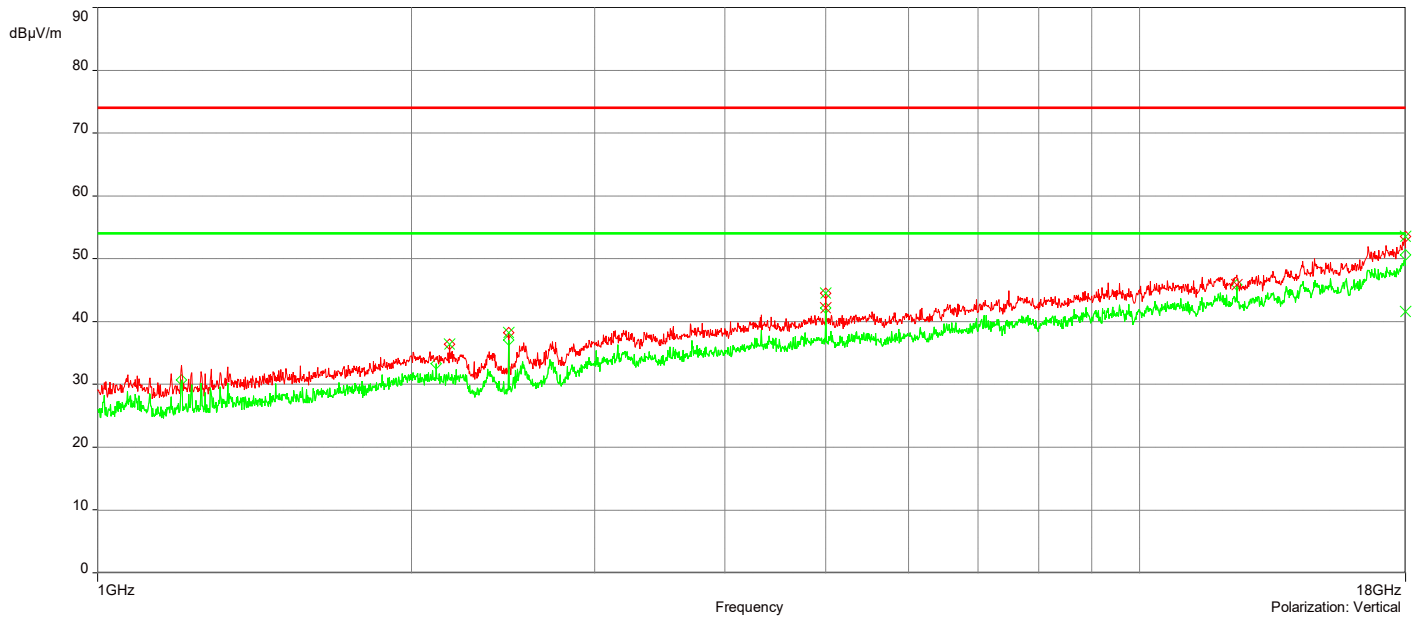
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.1765346GHz	36.43	-2.48	74.00	-37.57	1.50	0.10	Vertical	Passed
2.	2.4800435GHz	38.24	-1.32	74.00	-35.76	1.50	139.30	Vertical	Passed
3.	5.0001177GHz	44.47	4.87	74.00	-29.53	3.50	353.60	Vertical	Passed
4.	17.992GHz	53.56	19.89	74.00	-20.44	1.00	59.80	Vertical	Passed
5.	5.0001177GHz	43.39	4.91	74.00	-30.61	3.00	284.80	Horizontal	Passed
6.	17.951999GHz	53.73	19.15	74.00	-20.27	2.50	250.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	5.0001177GHz	42.13	4.87	54.00	-11.87	3.50	353.60	Vertical	Passed
2.	12.399335GHz	45.88	12.59	54.00	-8.12	3.50	0.20	Vertical	Passed
3.	17.9925GHz	41.55	19.90	54.00	-12.45	4.00	2.10	Vertical	Passed
4.	5.0001177GHz	41.58	4.91	54.00	-12.42	3.00	284.80	Horizontal	Passed
5.	12.399335GHz	45.85	12.56	54.00	-8.15	3.50	193.00	Horizontal	Passed
6.	17.9925GHz	41.46	19.85	54.00	-12.54	4.00	58.90	Horizontal	Passed

Overall Graphs:





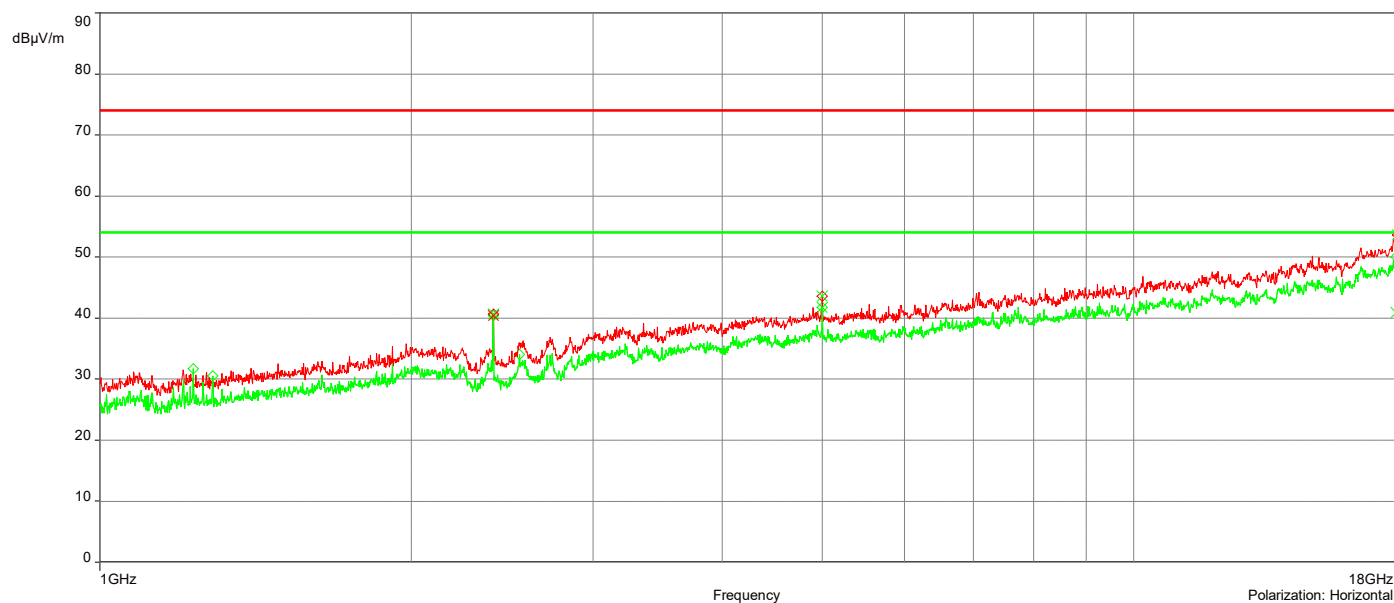
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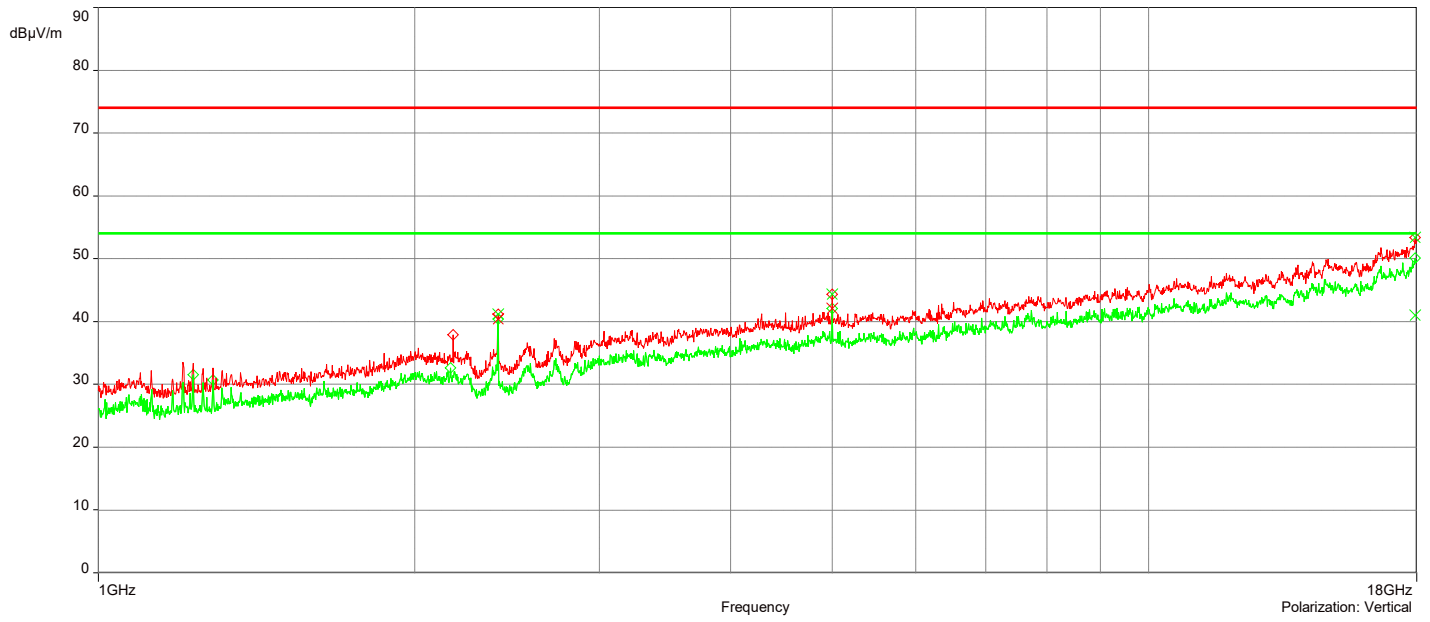
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.4020412GHz	41.18	-1.67	74.00	-32.82	3.00	155.10	Vertical	Passed
2.	5.0001177GHz	44.37	4.87	74.00	-29.63	4.00	348.20	Vertical	Passed
3.	17.945498GHz	53.34	19.15	74.00	-20.66	1.50	311.50	Vertical	Passed
4.	2.4020412GHz	40.67	-1.69	74.00	-33.33	3.00	359.90	Horizontal	Passed
5.	5.0001177GHz	43.62	4.91	74.00	-30.38	4.00	75.30	Horizontal	Passed
6.	17.996GHz	53.60	19.95	74.00	-20.40	1.00	184.90	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.4020412GHz	40.40	-1.67	54.00	-13.60	3.00	155.10	Vertical	Passed
2.	5.0001177GHz	42.07	4.87	54.00	-11.93	4.00	348.20	Vertical	Passed
3.	17.934498GHz	41.01	19.00	54.00	-12.99	4.00	356.90	Vertical	Passed
4.	2.4020412GHz	40.38	-1.69	54.00	-13.62	3.00	359.90	Horizontal	Passed
5.	5.0001177GHz	41.73	4.91	54.00	-12.27	4.00	75.30	Horizontal	Passed
6.	17.934498GHz	40.95	18.92	54.00	-13.05	4.00	359.90	Horizontal	Passed

Overall Graphs:





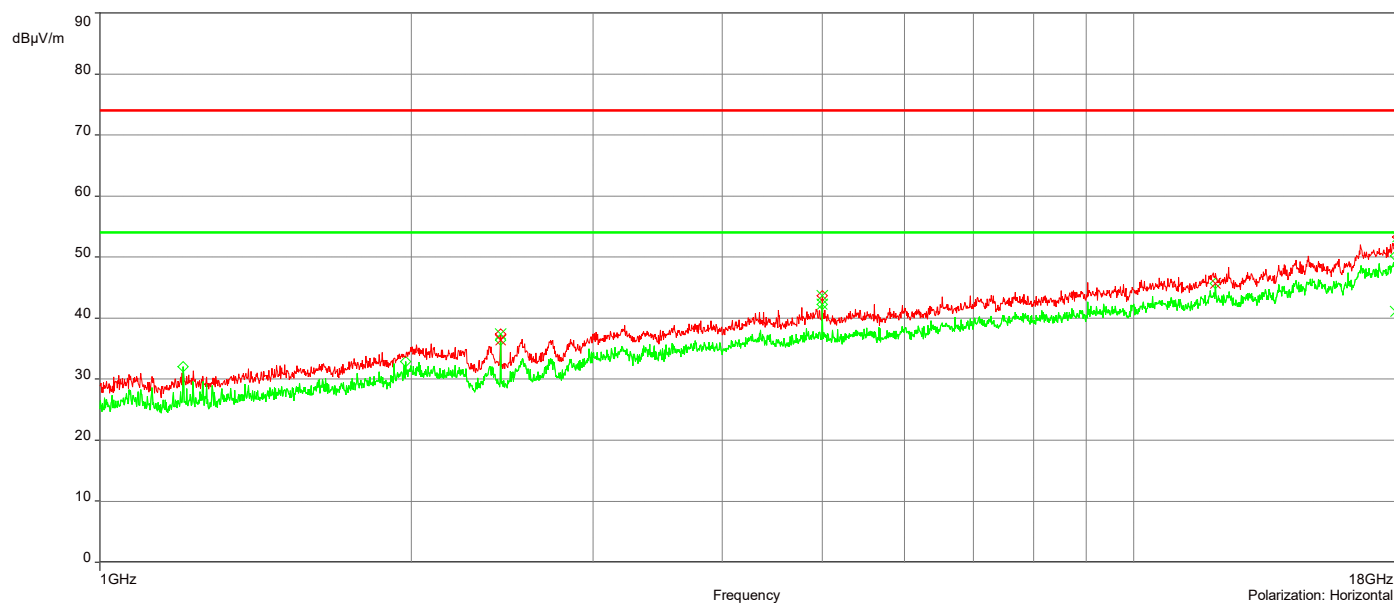
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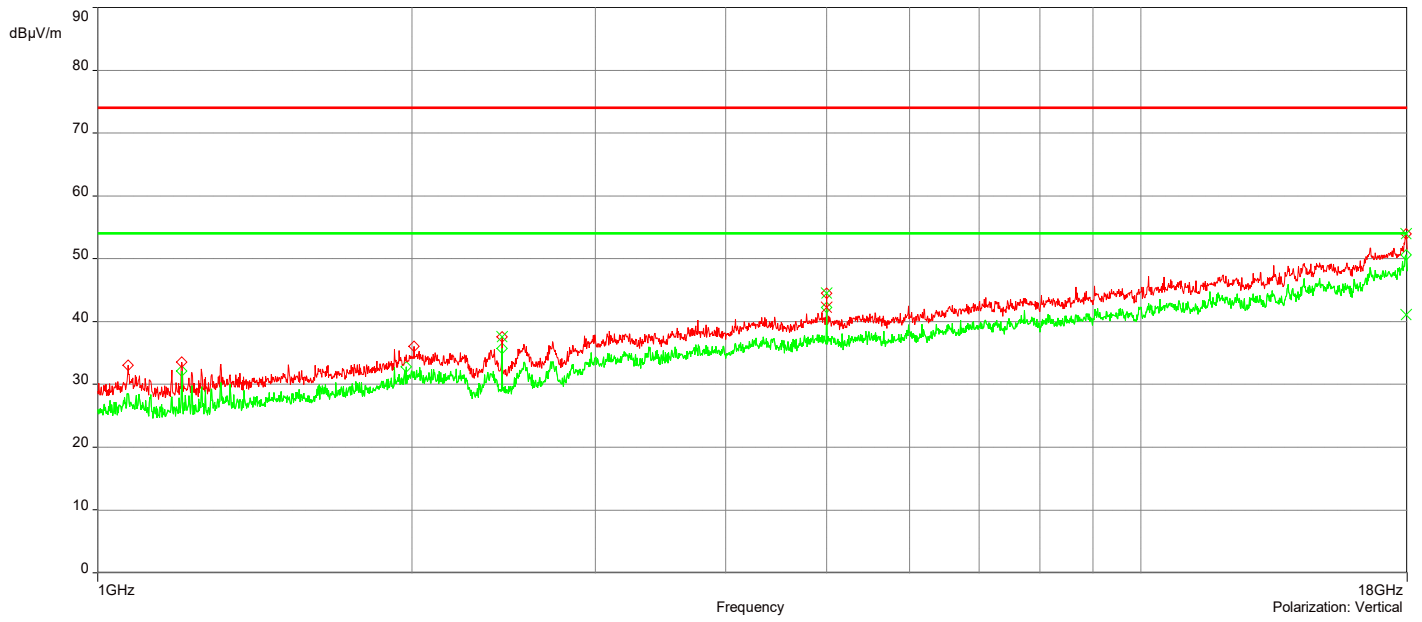
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.4410424GHz	37.57	-1.59	74.00	-36.43	4.00	129.50	Vertical	Passed
2.	5.0001177GHz	44.47	4.87	74.00	-29.53	1.50	359.90	Vertical	Passed
3.	17.951999GHz	53.92	19.23	74.00	-20.08	3.50	322.40	Vertical	Passed
4.	2.4410424GHz	37.35	-1.36	74.00	-36.65	1.00	199.50	Horizontal	Passed
5.	4.9996176GHz	43.66	4.91	74.00	-30.34	4.00	74.90	Horizontal	Passed
6.	17.994GHz	53.25	19.89	74.00	-20.75	2.50	95.10	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	5.0001177GHz	42.26	4.87	54.00	-11.74	1.50	359.90	Vertical	Passed
2.	17.951999GHz	41.08	19.23	54.00	-12.92	3.50	322.40	Vertical	Passed
3.	2.4410424GHz	36.43	-1.36	54.00	-17.57	1.00	199.50	Horizontal	Passed
4.	5.0001177GHz	42.22	4.91	54.00	-11.78	3.00		Horizontal	Passed
5.	12.000324GHz	45.66	12.15	54.00	-8.34	1.00	35.00	Horizontal	Passed
6.	17.923998GHz	41.05	18.78	54.00	-12.95	4.00	0.00	Horizontal	Passed

Overall Graphs:





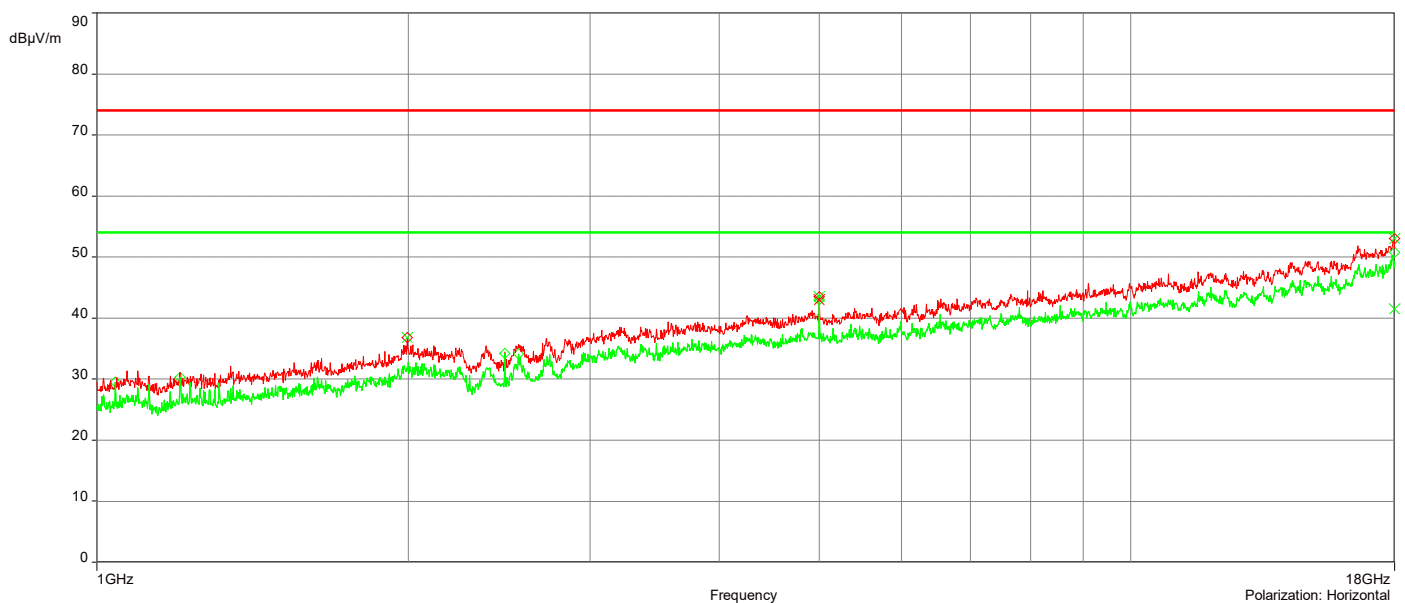
J23225_BT_3-DH1_Ch 78_1-18GHz

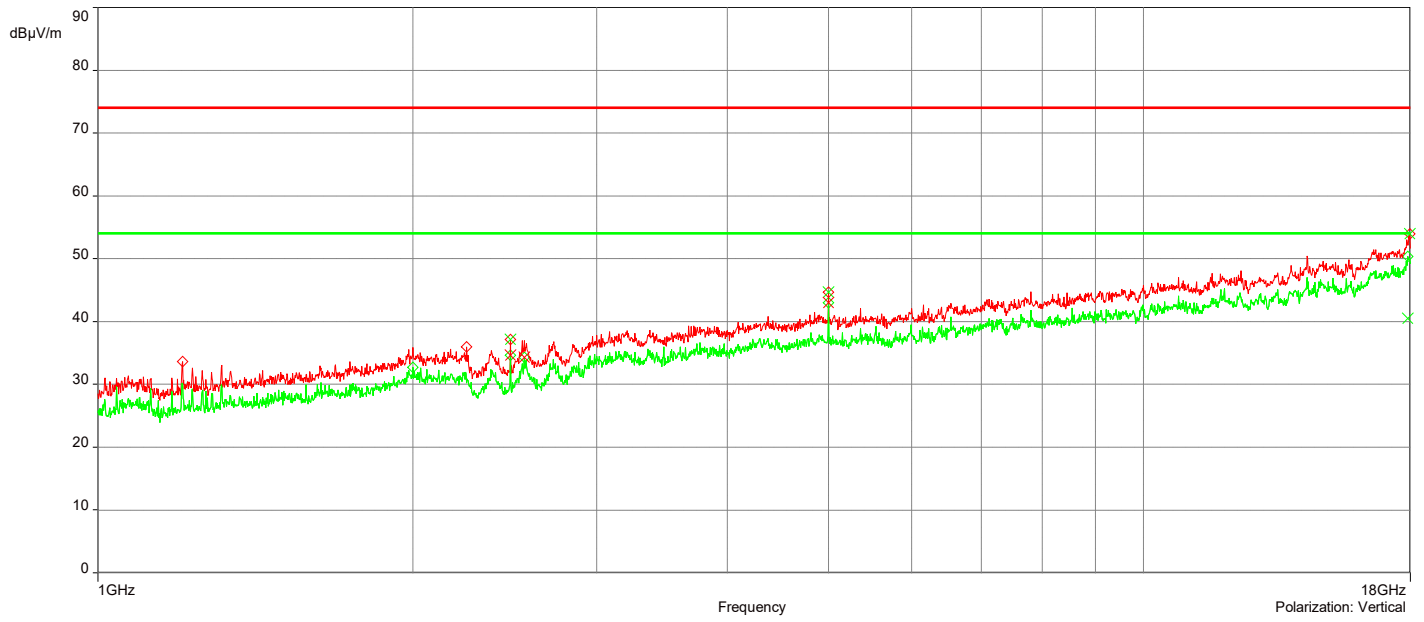
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.4800435GHz	37.18	-1.32	74.00	-36.82	1.50	140.40	Vertical	Passed
2.	5.0001177GHz	44.66	4.87	74.00	-29.34	3.00	335.90	Vertical	Passed
3.	17.981999GHz	53.94	19.61	74.00	-20.06	4.00	1.60	Vertical	Passed
4.	1.9970293GHz	36.78	-2.36	74.00	-37.22	1.50	37.70	Horizontal	Passed
5.	5.0001177GHz	43.50	4.91	74.00	-30.50	3.50	359.90	Horizontal	Passed
6.	17.9985GHz	53.04	20.02	74.00	-20.96	4.00	115.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.4795435GHz	34.61	-1.33	54.00	-19.39	1.50	140.40	Vertical	Passed
2.	2.5565458GHz	34.34	-0.68	54.00	-19.66	3.00	272.90	Vertical	Passed
3.	5.0001177GHz	43.00	4.87	54.00	-11.00	3.00	335.90	Vertical	Passed
4.	17.894997GHz	40.53	18.57	54.00	-13.47	3.00	244.90	Vertical	Passed
5.	5.0001177GHz	43.03	4.91	54.00	-10.97	3.50	359.90	Horizontal	Passed
6.	17.995GHz	41.45	19.92	54.00	-12.55	3.00	140.10	Horizontal	Passed

Overall Graphs:





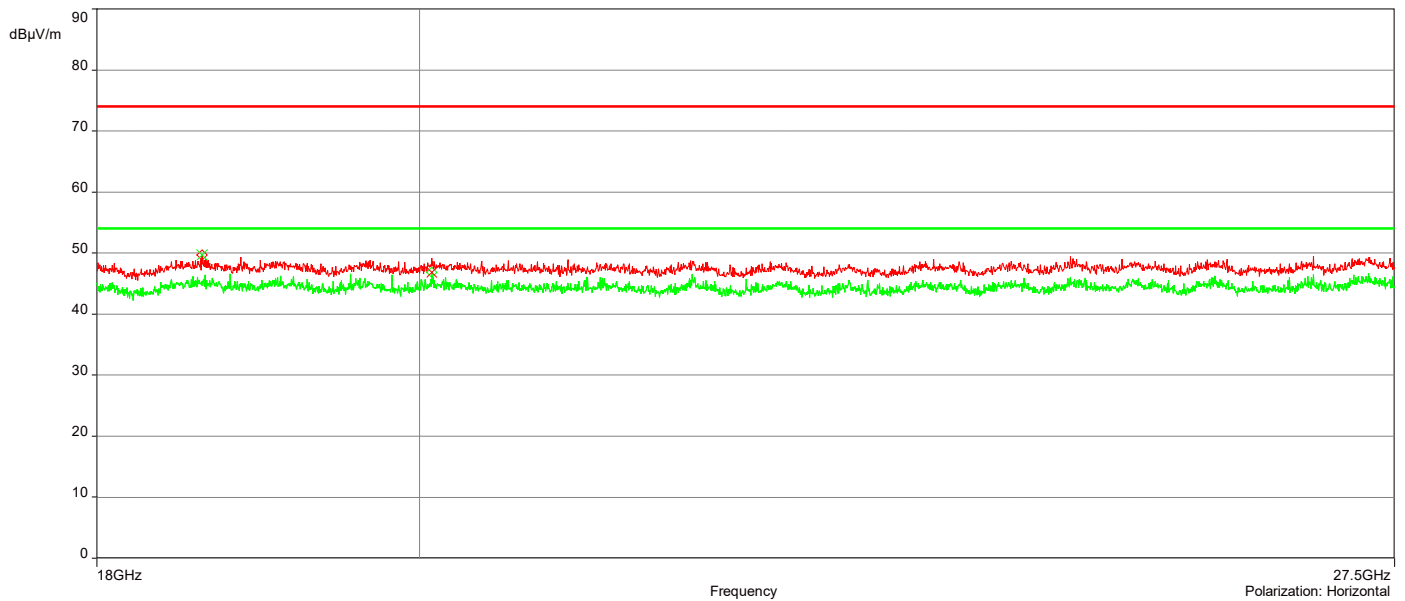
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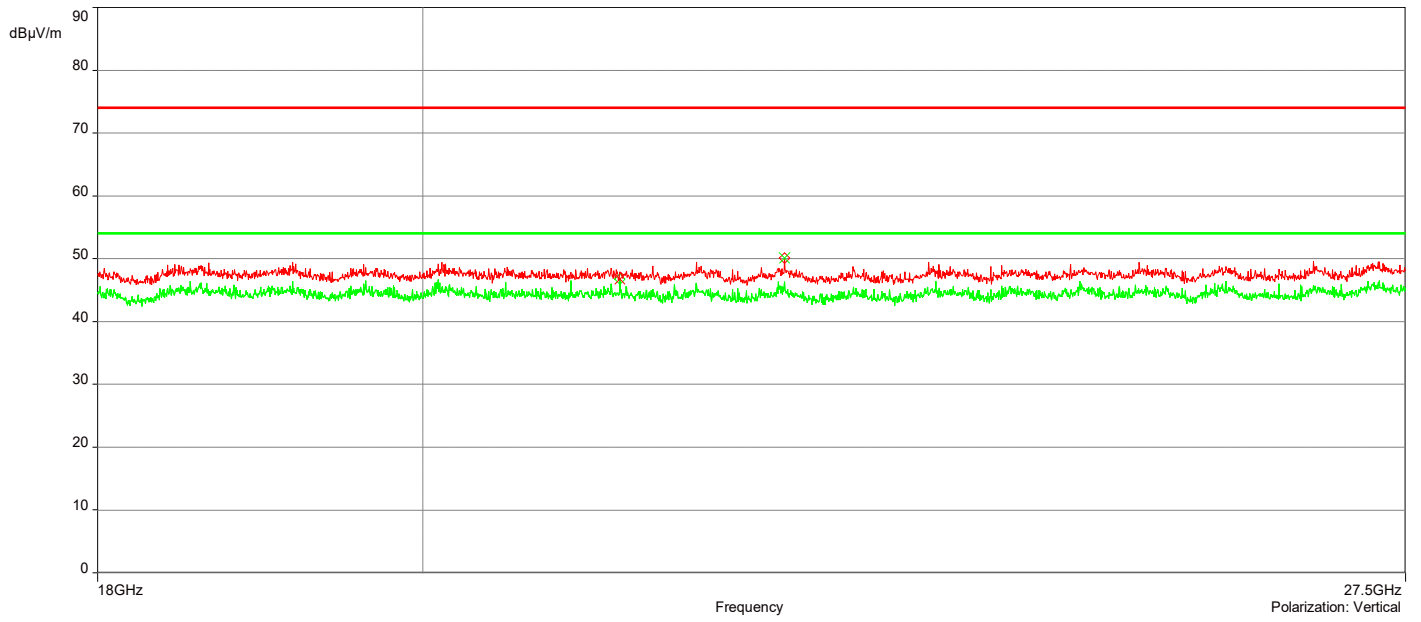
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No	Frequency (MHz)	Level Peak Reading (dBµV/m)	Correction Factor (dB)	Limit dBµV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	22.487549GHz	50.09	1.51	74.00	-23.91	2.32	0.20	Vertical	Passed
2.	18.629881GHz	49.72	0.04	74.00	-24.28	2.73	202.70	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBµV/m)	Correction Factor (dB)	Limit dBµV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	21.317566GHz	46.73	0.99	54.00	-7.27	2.73	225.10	Vertical	Passed
2.	20.081554GHz	46.88	0.31	54.00	-7.12	1.94	90.00	Horizontal	Passed

Overall Graphs:





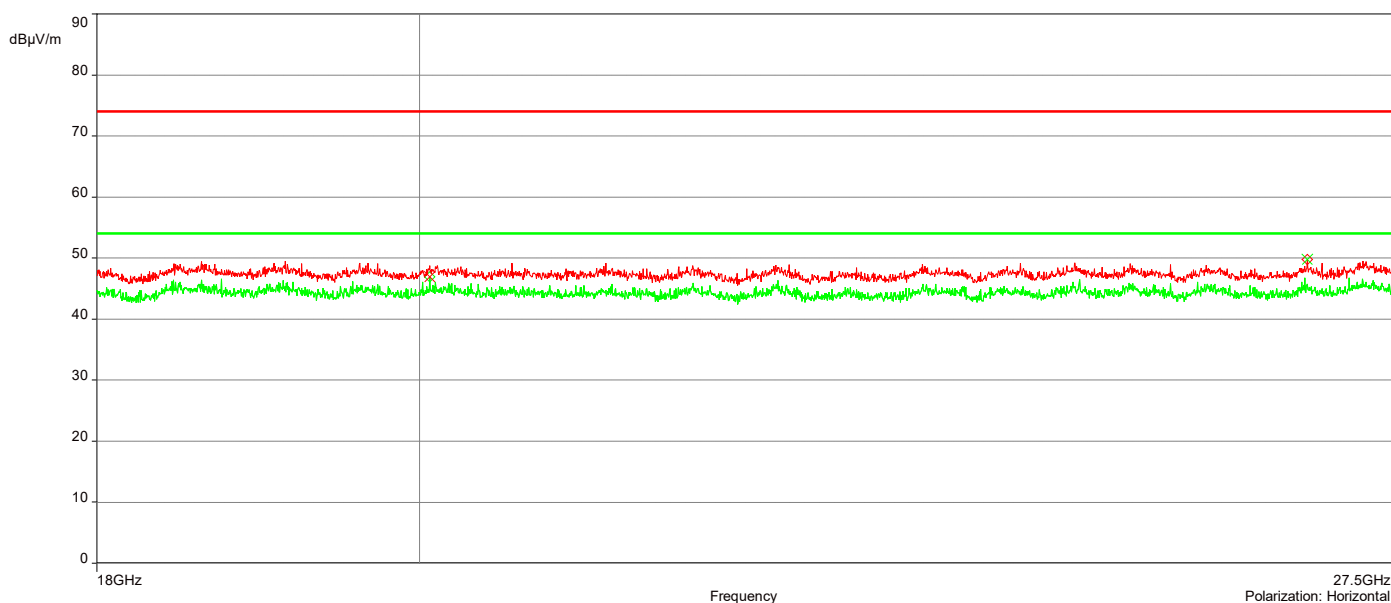
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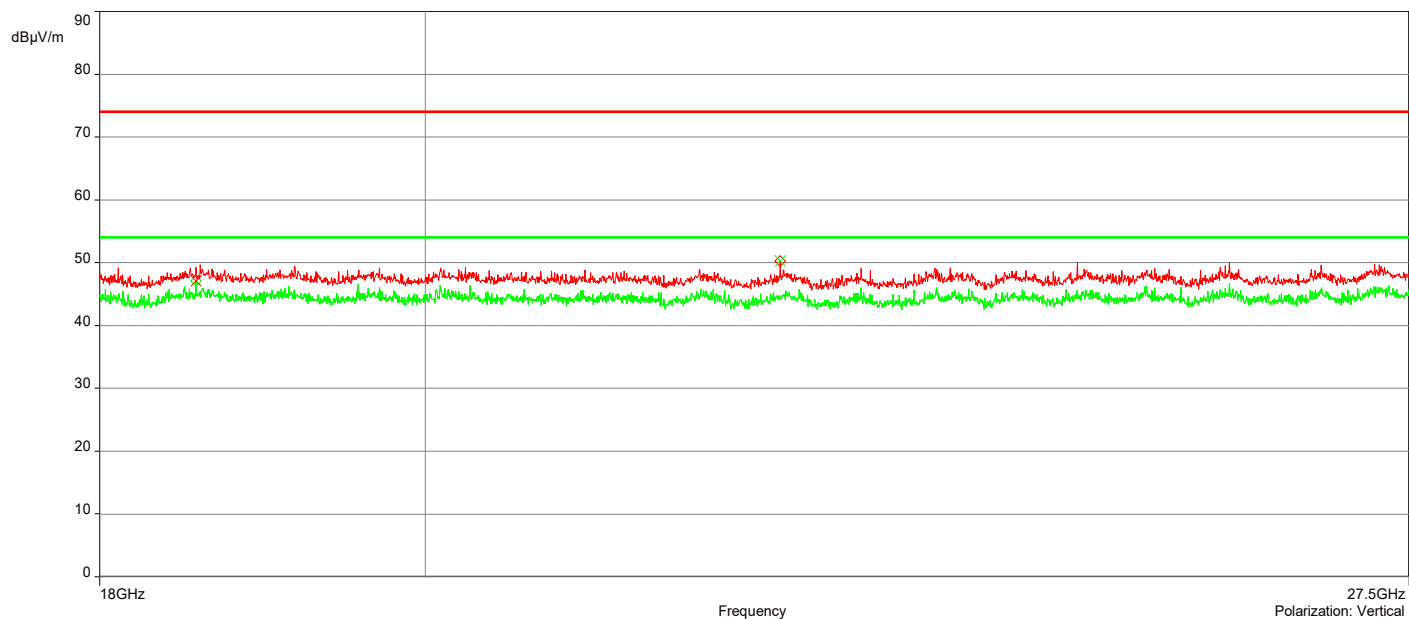
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No	Frequency (MHz)	Level Peak Reading (dBµV/m)	Correction Factor (dB)	Limit dBµV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	22.433872GHz	50.24	1.45	74.00	-23.76	3.29	269.90	Vertical	Passed
2.	26.725711GHz	49.81	4.86	74.00	-24.19	3.58	67.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBµV/m)	Correction Factor (dB)	Limit dBµV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	18.570504GHz	47.12	-0.02	54.00	-6.88	2.47	44.90	Vertical	Passed
2.	20.068253GHz	46.93	0.26	54.00	-7.07	1.69	89.90	Horizontal	Passed

Overall Graphs:





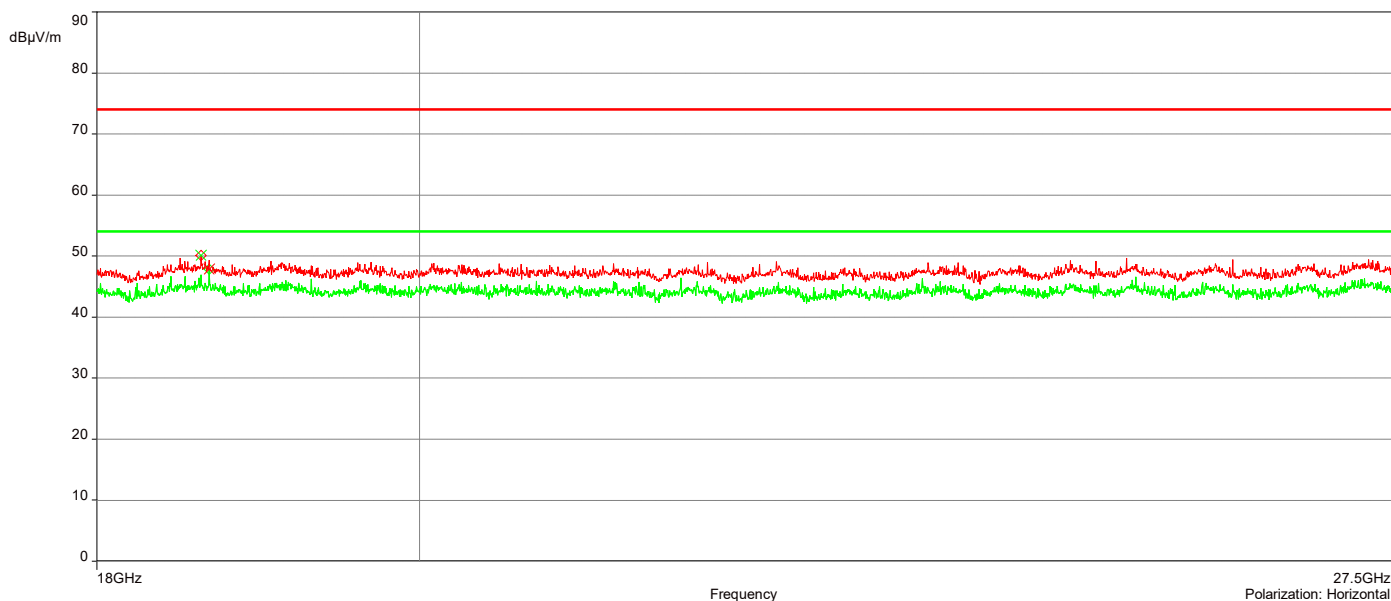
J23225_BT_DH1_Ch 78_18-27.5GHz

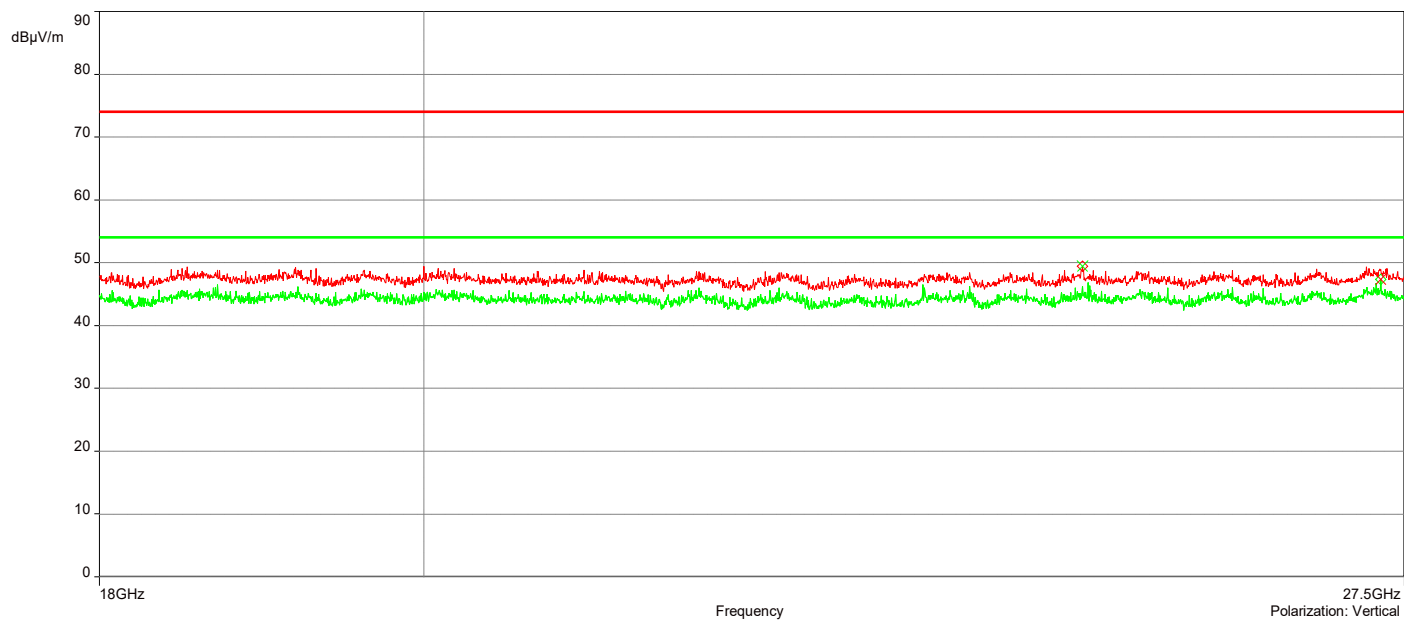
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	24.770514GHz	49.45	2.79	74.00	-24.55	1.00	0	Vertical	Passed
2.	18.622281GHz	50.13	0.05	74.00	-23.87	3.30	247.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	27.29004GHz	47.38	5.92	54.00	-6.62	1.95	67.50	Vertical	Passed
2.	18.672634GHz	47.85	-0.07	54.00	-6.15	3.97	247.50	Horizontal	Passed

Overall Graphs:





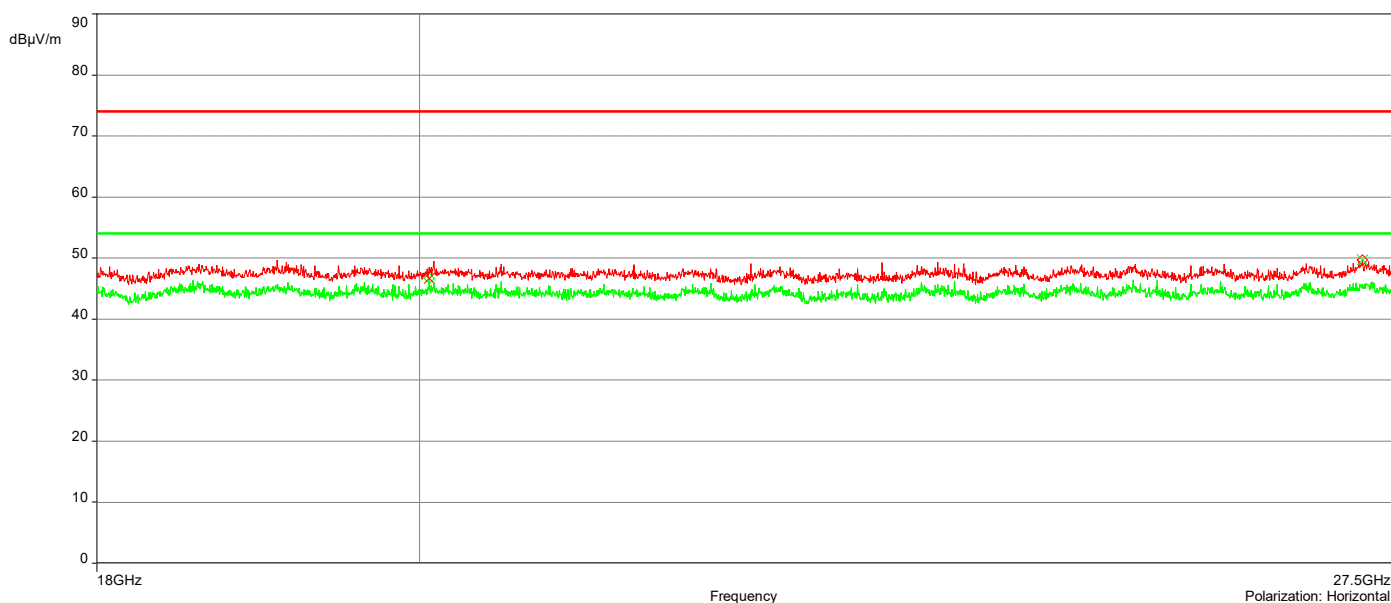
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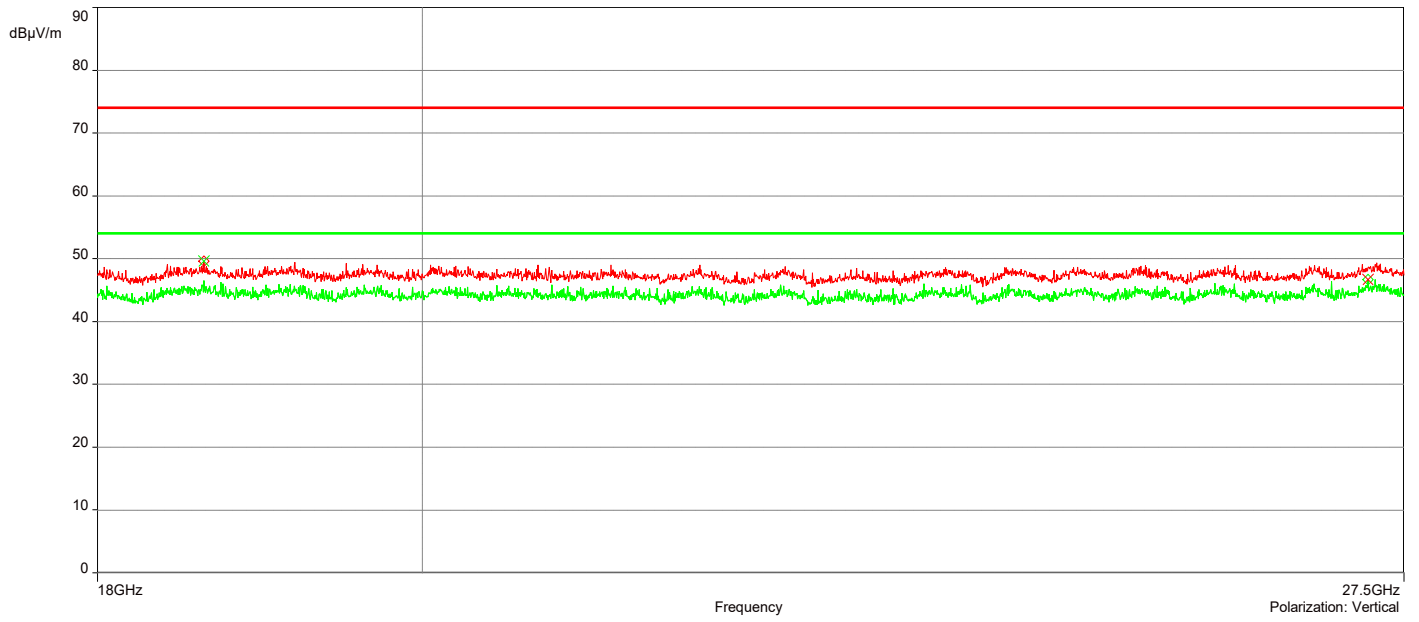
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	18.632732GHz	49.64	0.02	74.00	-24.36	1.56	9	Vertical	Passed
2.	27.213561GHz	49.70	5.72	74.00	-24.30	4.00	247.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	27.182684GHz	46.66	5.70	54.00	-7.34	3.42	44.90	Vertical	Passed
2.	20.063978GHz	46.70	0.23	54.00	-7.30	1.93	292.40	Horizontal	Passed

Overall Graphs:





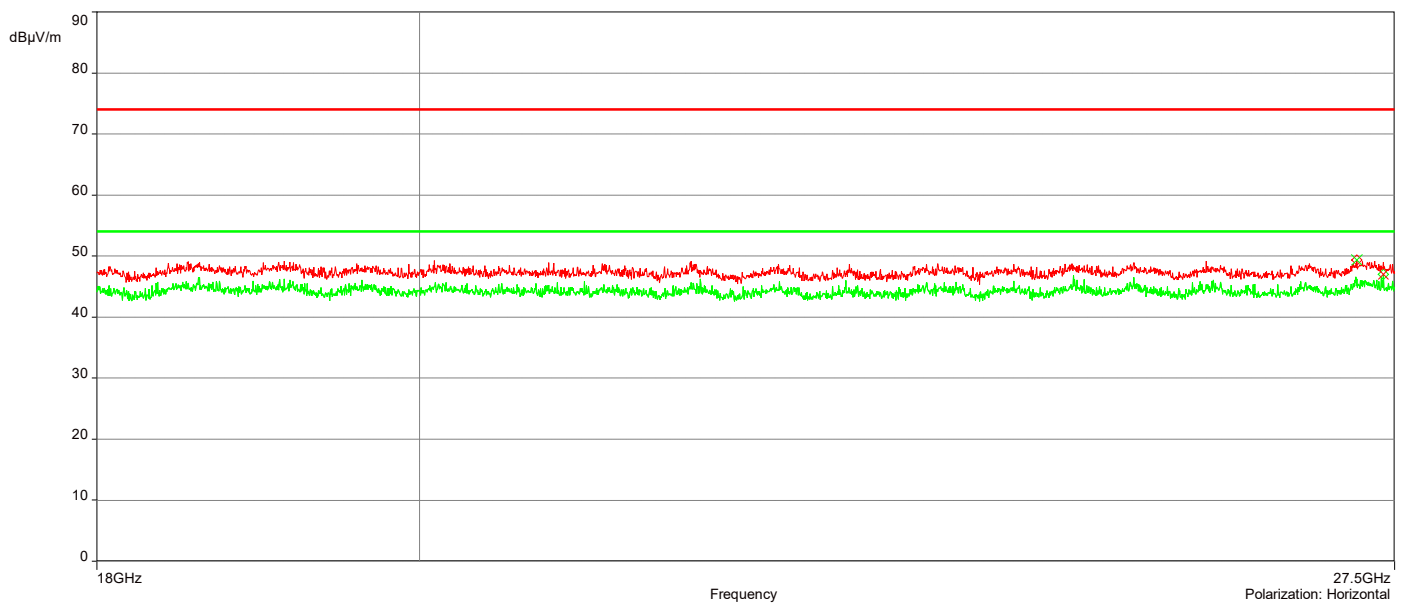
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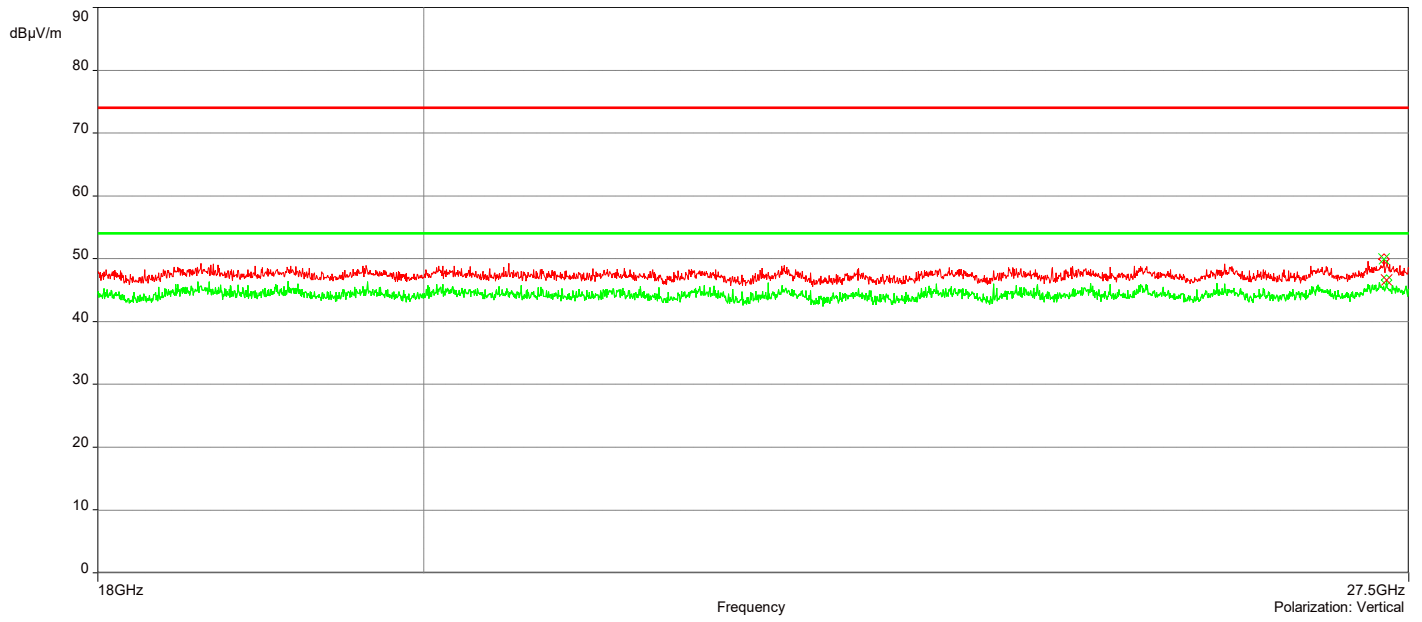
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	27.280064GHz	49.91	5.90	74.00	-24.09	3.67	247.60	Vertical	Passed
2.	27.161783GHz	49.34	5.72	74.00	-24.66	2.60	67.50	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	27.304765GHz	46.57	5.96	54.00	-7.43	3.87	22.60	Vertical	Passed
2.	27.398345GHz	47.04	5.76	54.00	-6.96	3.02	135.00	Horizontal	Passed

Overall Graphs:





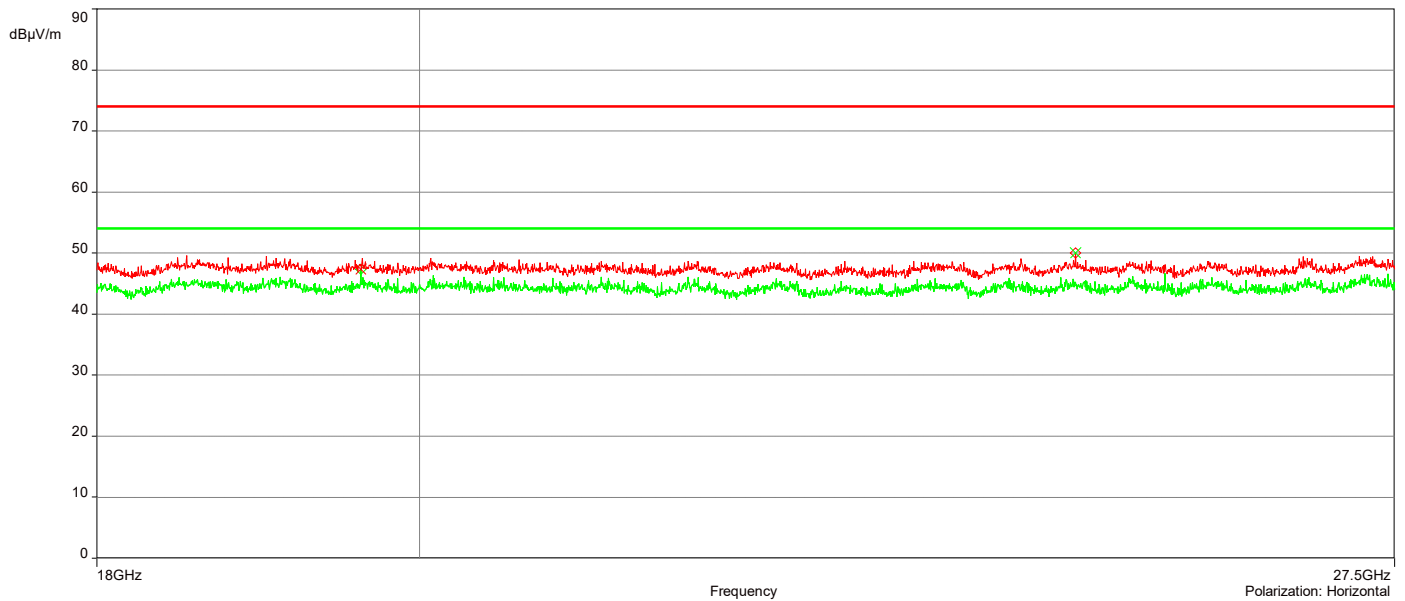
J23225_BT_3-DH1_Ch 78_18-27.5GHz

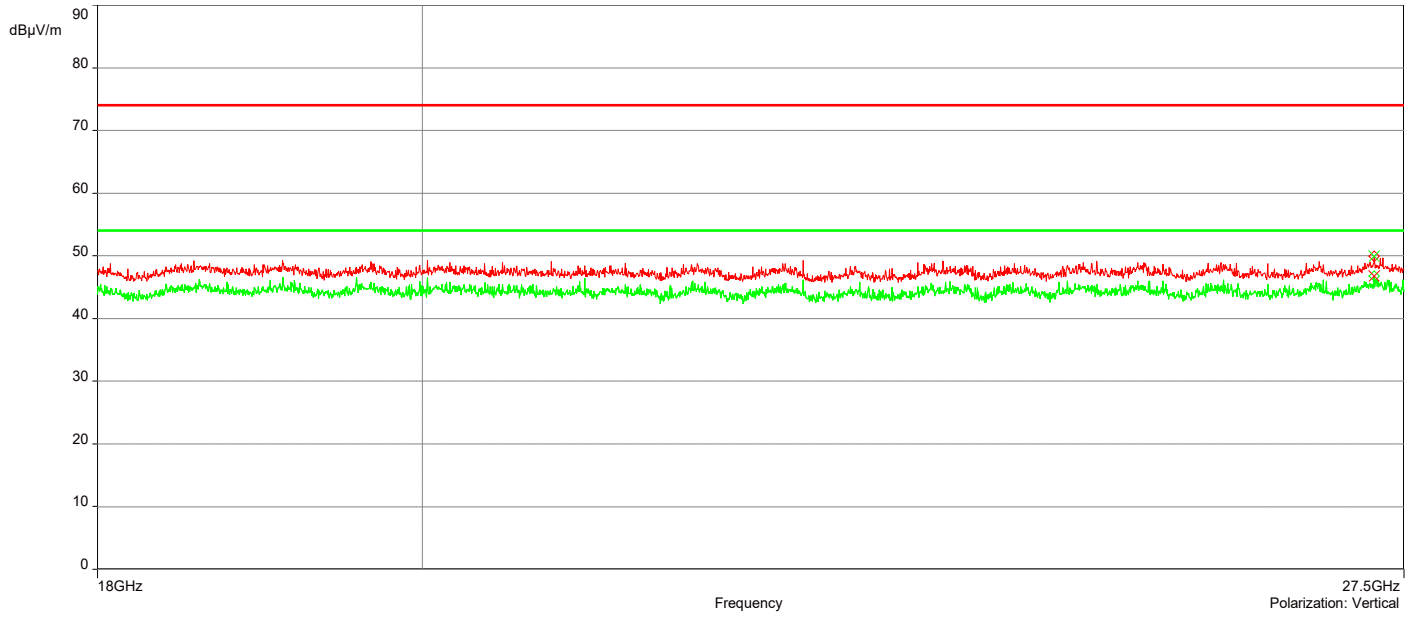
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	27.237312GHz	49.96	5.78	74.00	-24.04	2.08	89.90	Vertical	Passed
2.	24.778114GHz	49.99	2.83	74.00	-24.01	2.21	22.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	27.237312GHz	46.74	5.78	54.00	-7.26	2.08	89.90	Vertical	Passed
2.	19.619356GHz	47.33	0.23	54.00	-6.67	3.29	247.40	Horizontal	Passed

Overall Graphs:





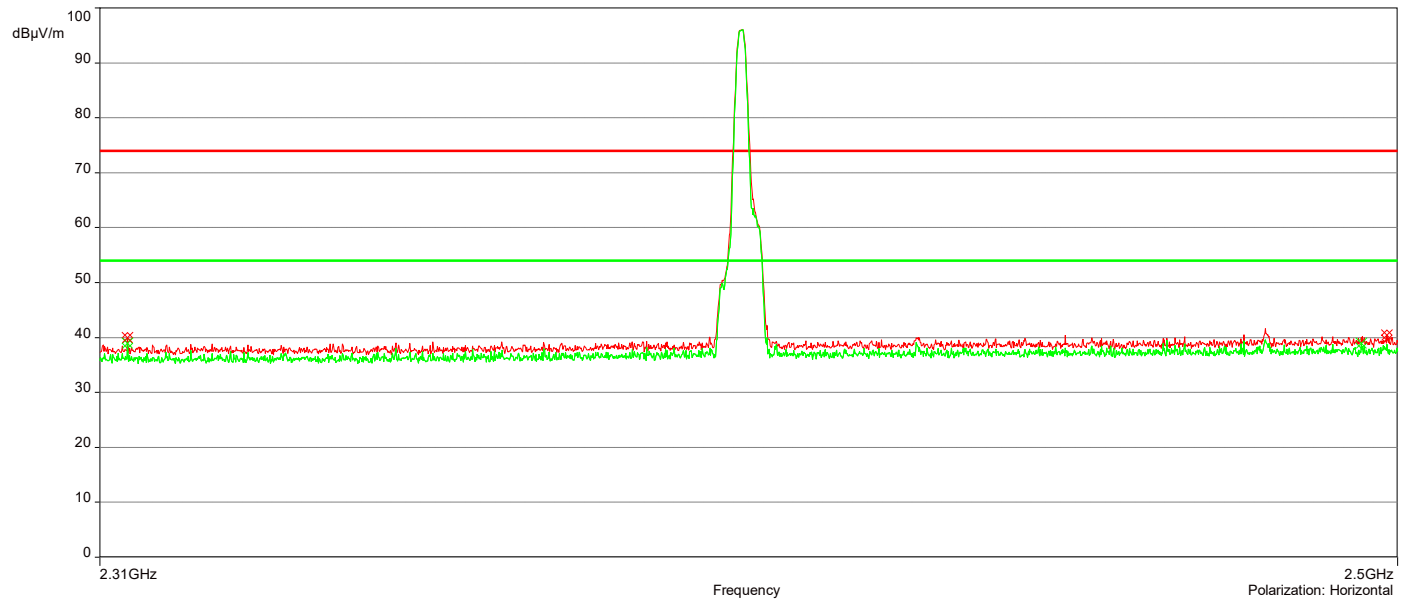
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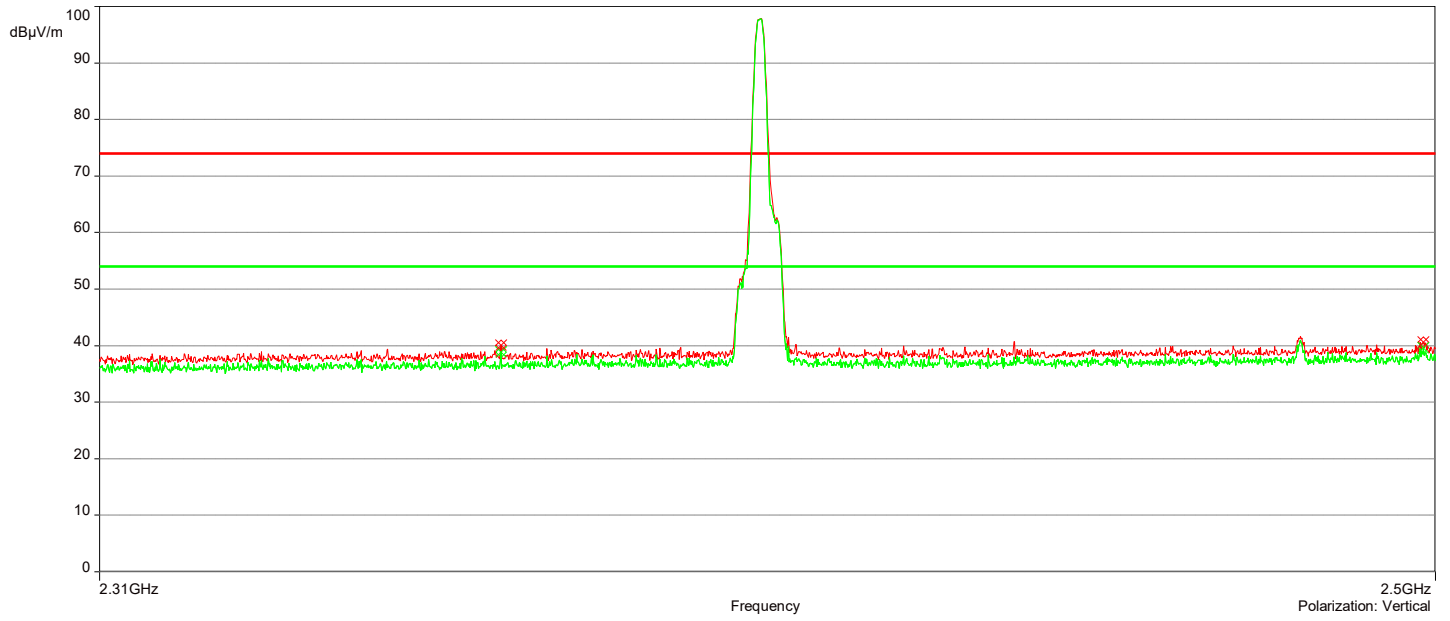
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No	Frequency (MHz)	Level Peak Reading (dBµV/m)	Correction Factor (dB)	Limit dBµV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3655078GHz	40.06	-2.93	74.00	-33.94	3.40	22.40	Vertical	Passed
2.	2.4981941GHz	40.59	-2.19	74.00	-33.41	3.07	134.90	Vertical	Passed
3.	2.3138969GHz	40.00	-3.15	74.00	-34.00	3.24	337.40	Horizontal	Passed
4.	2.4983842GHz	40.42	-2.16	74.00	-33.58	2.27	224.90	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBµV/m)	Correction Factor (dB)	Limit dBµV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3655078GHz	38.88	-2.93	54.00	-15.12	3.40	22.40	Vertical	Passed
2.	2.4981941GHz	39.64	-2.19	54.00	-14.36	3.07	134.90	Vertical	Passed
3.	2.3138969GHz	38.99	-3.15	54.00	-15.01	3.24	337.40	Horizontal	Passed
4.	2.4944872GHz	38.92	-2.17	54.00	-15.08	3.17	292.40	Horizontal	Passed

Overall Graphs:





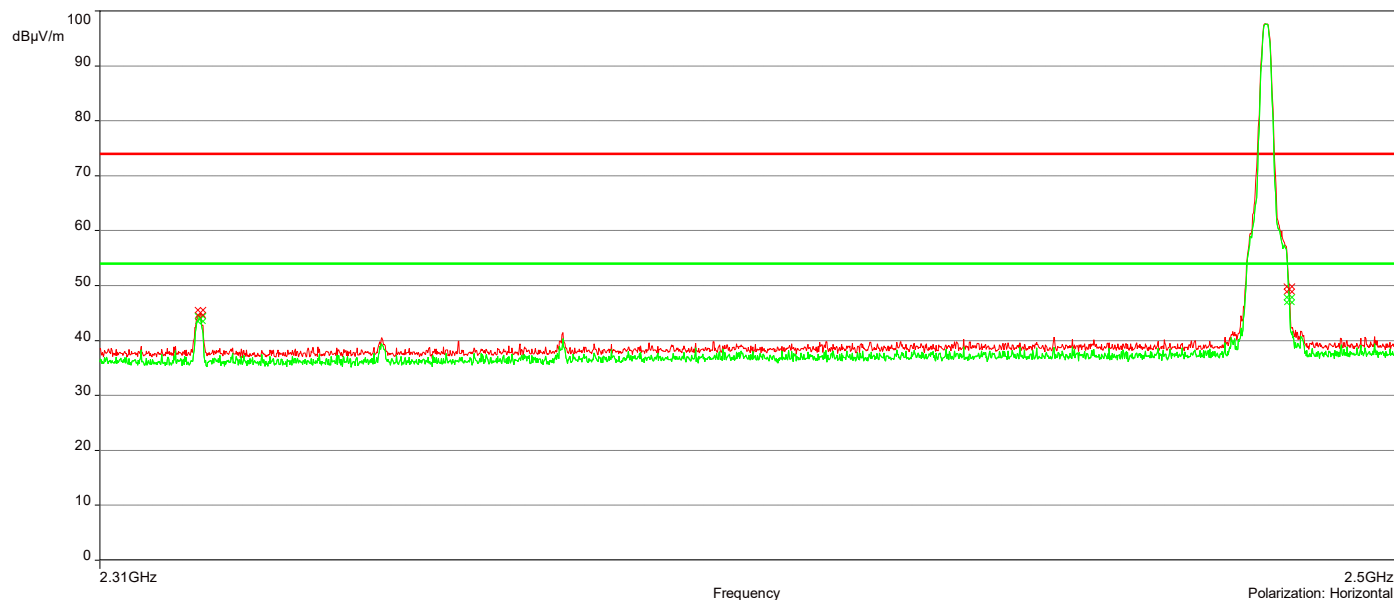
J23225_Restricted Bandedge_BT Classic_DH1_Ch 78

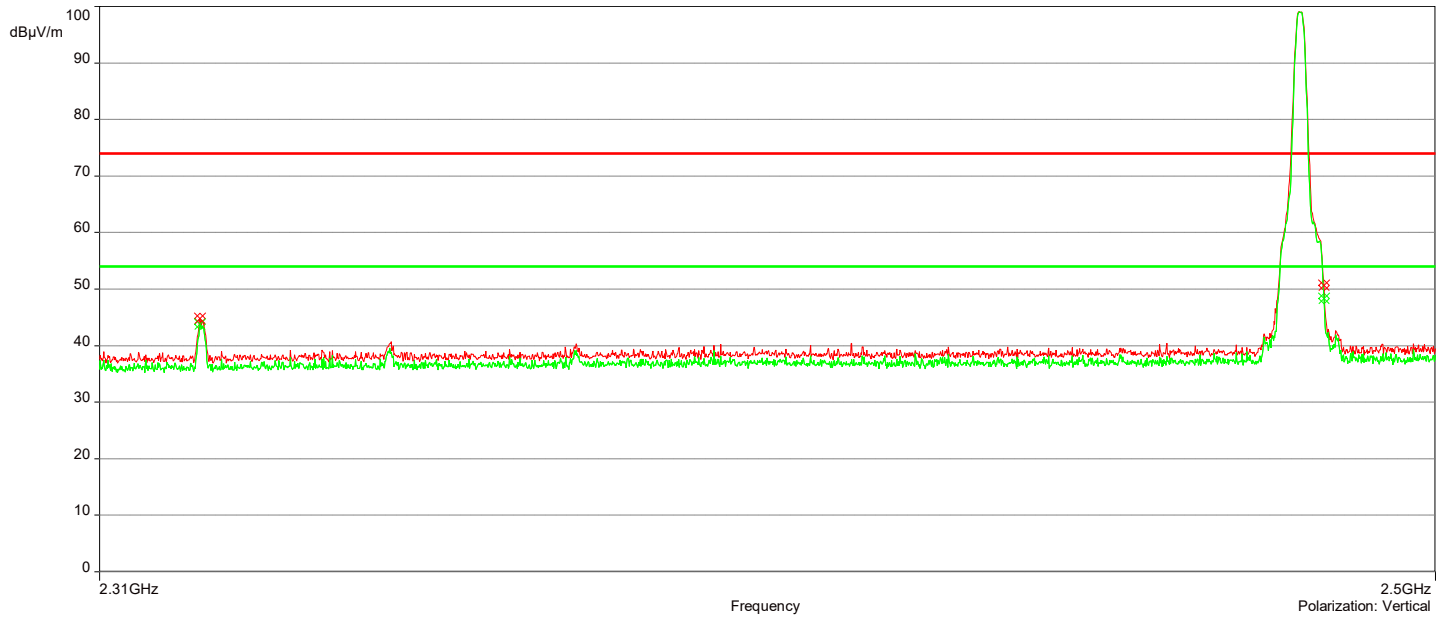
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3237819GHz	44.84	-3.17	74.00	-29.16	1.60	201.60	Vertical	Passed
2.	2.4835568GHz	50.67	-2.26	74.00	-23.33	3.17	134.10	Vertical	Passed
3.	2.3241621GHz	45.07	-3.19	74.00	-28.93	1.05	201.60	Horizontal	Passed
4.	2.4835568GHz	49.36	-2.18	74.00	-24.64	1.42	201.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3237819GHz	43.74	-3.17	54.0074.00	-10.26	1.60	201.60	Vertical	Passed
2.	2.4835568GHz	48.36	-2.26	54.0074.00	-5.64	3.17	134.10	Vertical	Passed
3.	2.3241621GHz	44.00	-3.19	54.0074.00	-10.00	1.05	201.60	Horizontal	Passed
4.	2.4835568GHz	47.45	-2.18	54.0074.00	-6.55	1.42	201.60	Horizontal	Passed

Overall Graphs:





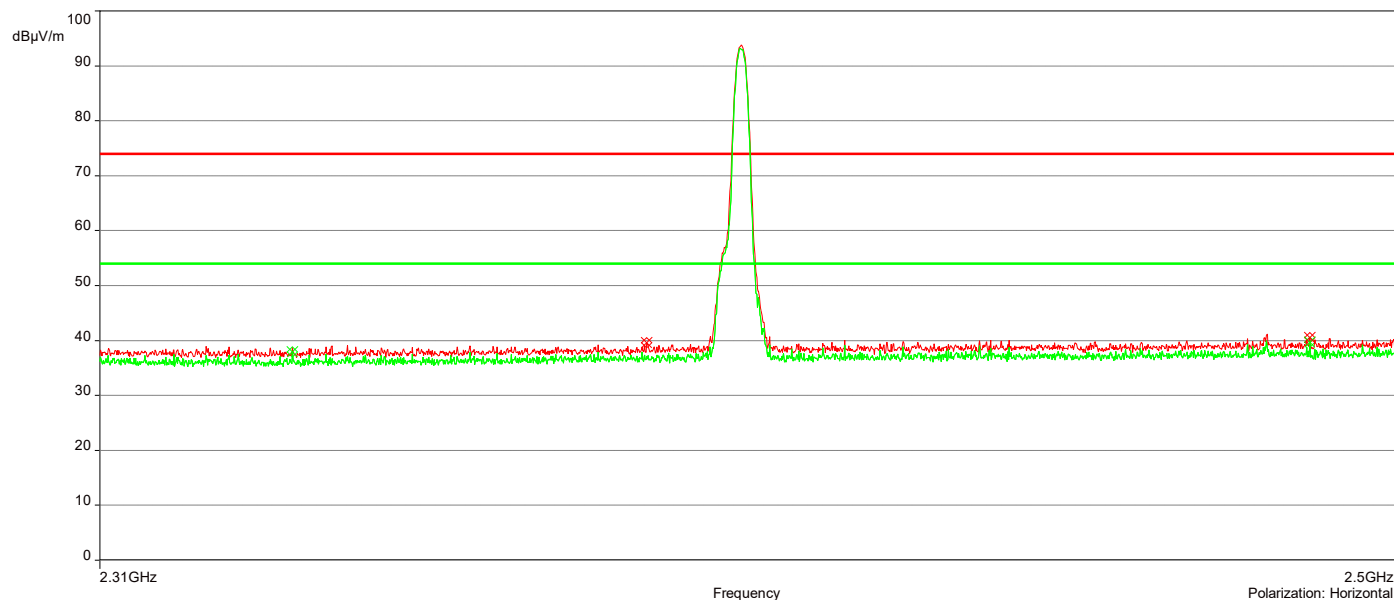
J23225_Restricted Bandedge_BT Classic_3-DH1_Ch 0

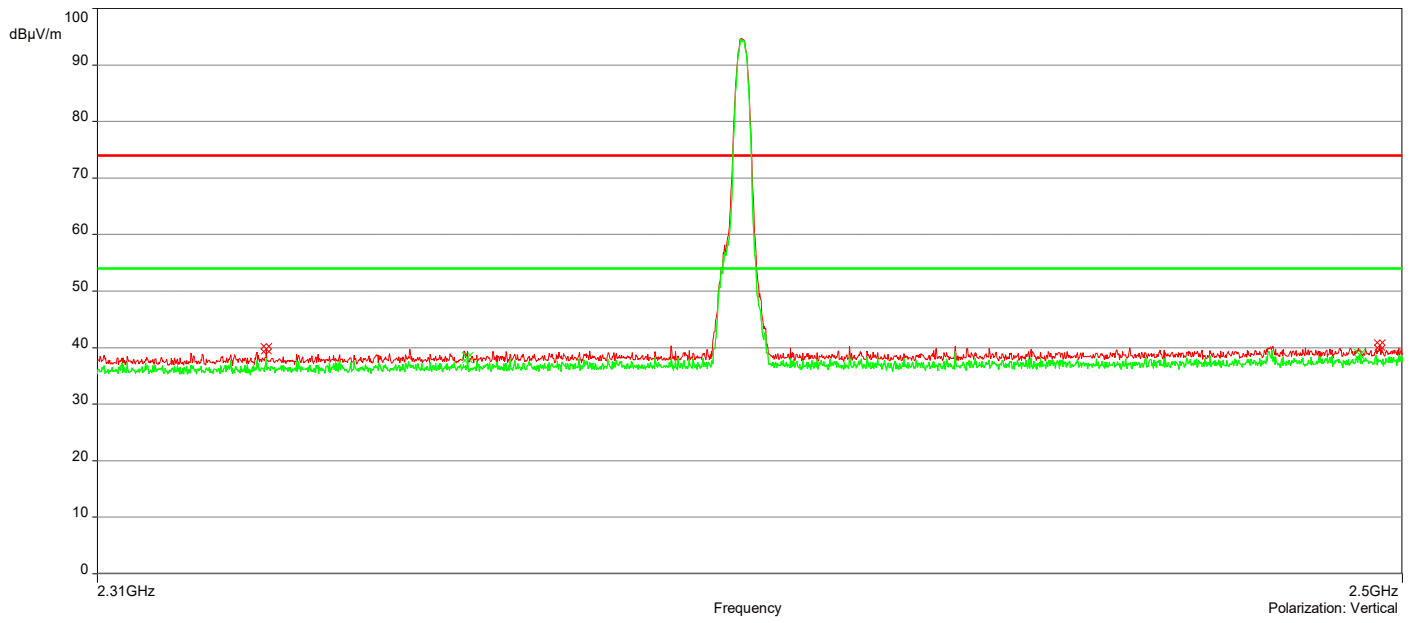
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.3337619GHz	39.82	-3.09	74.00	-34.18	4.00	314.90	Vertical	Passed
2.	2.4965783GHz	40.41	-2.19	74.00	-33.59	2.17	67.40	Vertical	Passed
3.	2.3882241GHz	39.56	-2.83	74.00	-34.44	2.15	67.40	Horizontal	Passed
4.	2.4866933GHz	40.49	-2.17	74.00	-33.51	3.82	112.40	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.3623712GHz	38.22	-2.96	54.00	-15.78	3.82	44.90	Vertical	Passed
2.	2.4935368GHz	38.80	-2.19	54.00	-15.20	3.91	44.90	Vertical	Passed
3.	2.3372786GHz	37.97	-3.23	54.00	-16.03	3.12	314.90	Horizontal	Passed
4.	2.4866933GHz	39.70	-2.17	54.0074.00	-14.30	3.82	112.40	Horizontal	Passed

Overall Graphs:





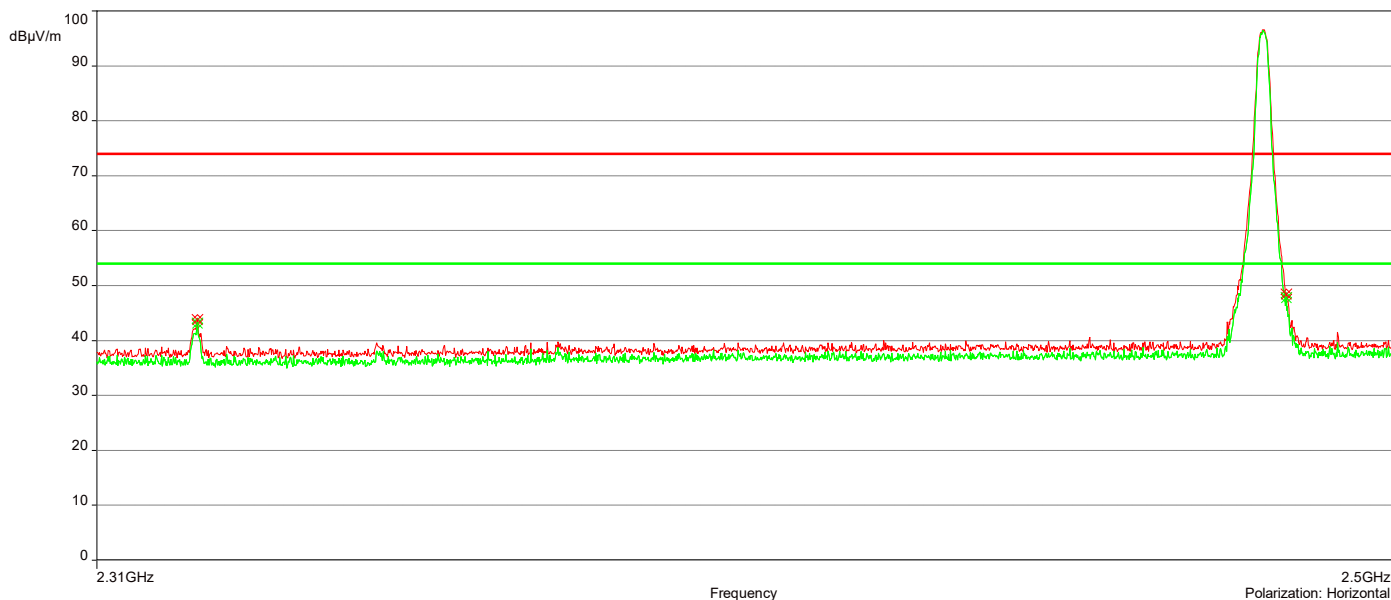
J23225_Restricted Bandedge_BT Classic_3-DH1_Ch 78

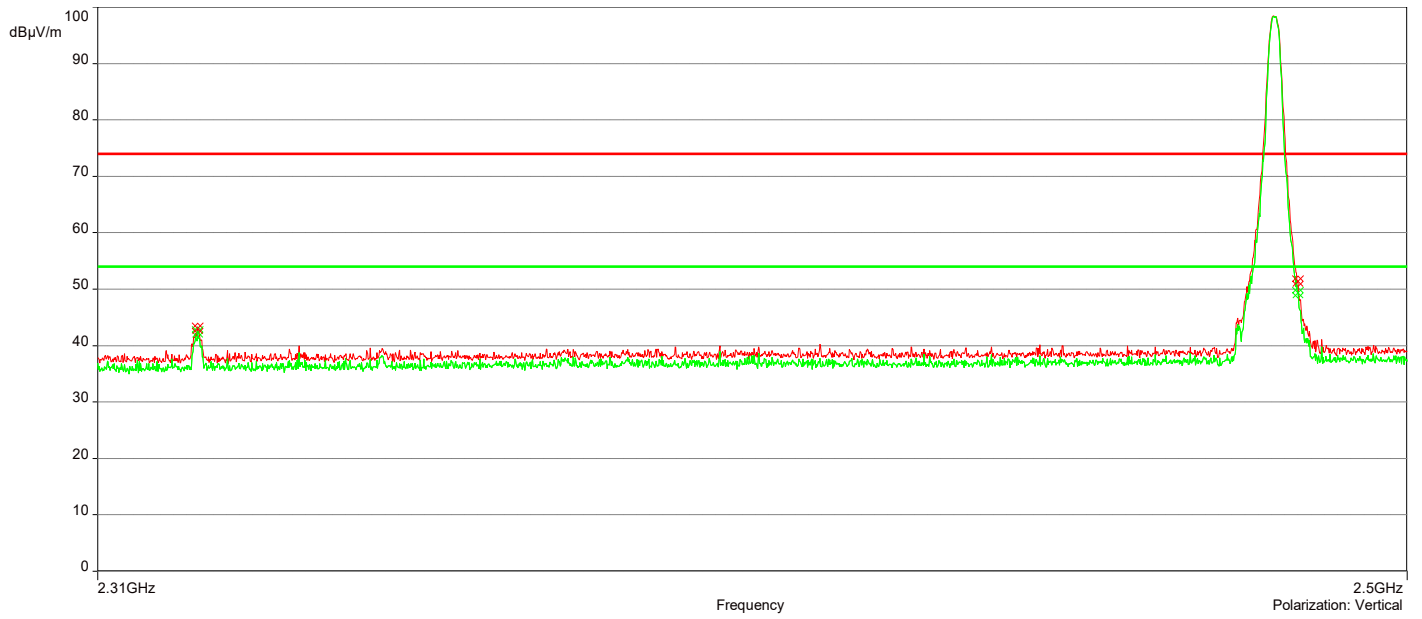
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No	Frequency (MHz)	Level Peak Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgement
1.	2.323972GHz	43.05	-3.17	74.00	-30.95	1.68	201.50	Vertical	Passed
2.	2.4835568GHz	51.37	-2.26	74.00	-22.63	2.78	134.10	Vertical	Passed
3.	2.3241621GHz	43.76	-3.19	74.00	-30.24	1.00	179.10	Horizontal	Passed
4.	2.4835568GHz	48.43	-2.18	74.00	-25.57	3.55	246.60	Horizontal	Passed

No	Frequency (MHz)	Level Average Reading (dBμV/m)	Correction Factor (dB)	Limit dBμV/m	Margin (dB)	Height (m)	Angle (°)	Polarization	Judgment
1.	2.323972GHz	42.37	-3.17	54.0074.00	-11.63	1.68	201.50	Vertical	Passed
2.	2.4835568GHz	49.32	-2.26	54.0074.00	-4.68	2.78	134.10	Vertical	Passed
3.	2.3241621GHz	43.14	-3.19	54.0074.00	-10.86	1.00	179.10	Horizontal	Passed
4.	2.4835568GHz	47.74	-2.18	54.0074.00	-6.26	3.55	246.60	Horizontal	Passed

Overall Graphs:





Document Revisions

Version	Date	Modifier	Changes
1.0	01/15/2024	Aravind Buddana	<ul style="list-style-type: none">• Initial Release
2.0	03/15/2024	Aravind Buddana	<ul style="list-style-type: none">• Updated Section 4.1 Test Summary with a note on model representing the current measurements.• Updated Section 4.4.2 Band Edge Hopping Test data• Updated Section 4.4.5 Peak Output Power Test data• Updated Section 4.4.8 Band Edge Low Test data• Updated Section 4.4.9 Band High Hopping Test data• Updated Section 4.4.10 Tx Spurious Emissions Test data• Updated the Equipment list to remove unused band reject filter
3.0	03/19/2024	Aravind Buddana	<ul style="list-style-type: none">• Updated Section 4.1 Test Summary with DUT Configuration procedure used for testing.• Added additional notes in Section 4.4.2 to justify the recorded tabular measurements data.• Added additional notes in Section 5.5 to justify radiated emissions graph vs tabular data recorded with Q-peak detectors.• Updated Section 5.3 Equipment Used list with below 1GHz pre-amplifier.

End of Report