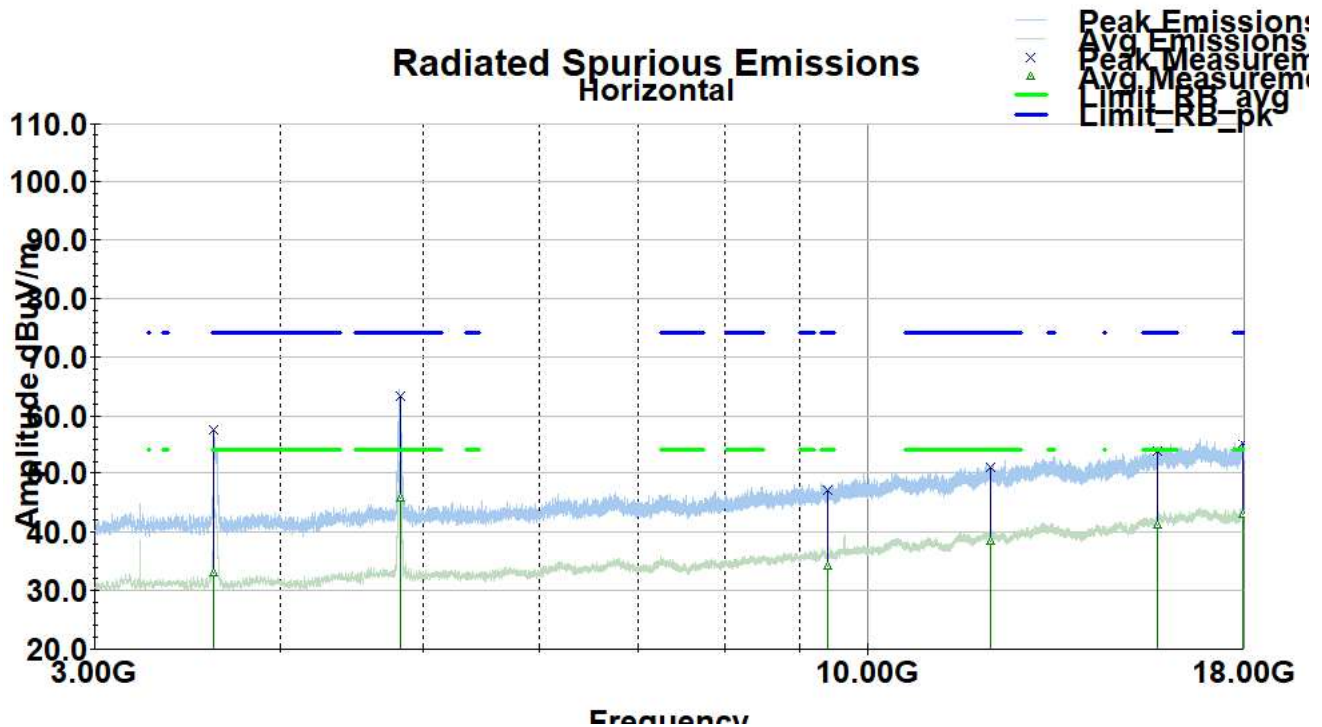


(X-Axis) 3-18GHz Horizontal Plot – Low channel



(X-Axis) 3-18GHz Horizontal Data – Low channel

Peak

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
3607.96	64.1	H	181.0	219.0	33.1	2.5	42.1	57.7	74.0	-16.3
4825.46	68.4	H	82.0	100.0	34.4	2.9	42.3	63.4	74.0	-10.6
9400.28	49.0	H	160.0	196.0	36.5	3.7	42.1	47.1	74.0	-26.9
12111.34	49.3	H	129.0	191.0	39.0	4.4	41.8	51.0	74.0	-23.0
15719.32	49.0	H	154.0	112.0	40.6	4.9	40.8	53.7	74.0	-20.3
17947.8	49.3	H	90.0	248.0	41.3	5.2	40.7	55.1	74.0	-18.9

Final Pk = Raw Pk + AF + Loss - Amp

Margin = Final Pk - Limit

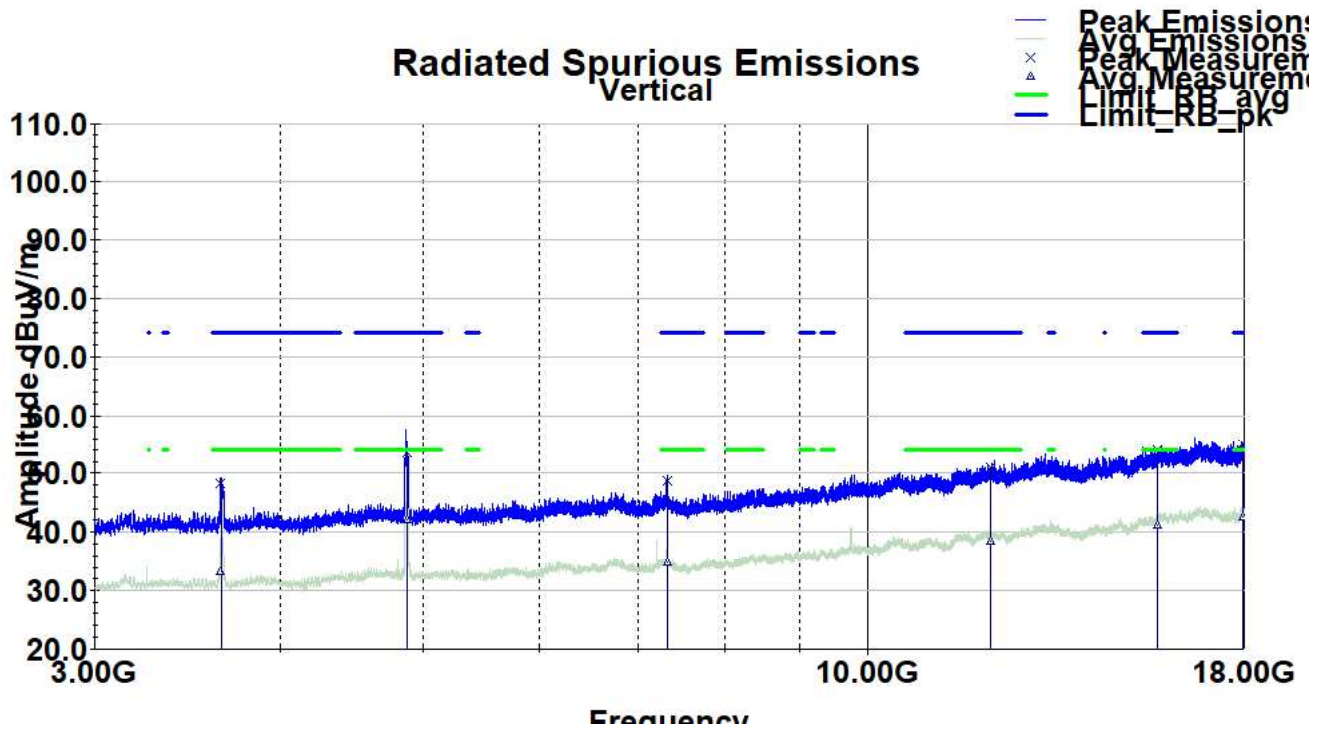
Average

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit dBuV/m	Margin dB
3607.96	39.4	H	181.0	219.0	33.1	2.5	42.1	33.0	54.0	-21.0
4825.46	50.8	H	82.0	100.0	34.4	2.9	42.3	45.8	54.0	-8.2
9400.28	36.1	H	160.0	196.0	36.5	3.7	42.1	34.2	54.0	-19.8
12111.34	36.9	H	129.0	191.0	39.0	4.4	41.8	38.5	54.0	-15.5
15719.32	36.6	H	154.0	112.0	40.6	4.9	40.8	41.3	54.0	-12.7
17947.78	37.1	H	90.0	248.0	41.3	5.2	40.7	42.9	54.0	-11.1

Final Avg = Raw Avg + AF + Loss - Amp

Margin = Final Avg - Limit

(X-Axis) 3-18GHz Vertical Plot – Mid channel


(X-Axis) 3-18GHz Vertical Data – Mid channel
Peak

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
3648.98	54.6	V	9.0	176.0	33.3	2.5	42.0	48.3	74.0	-25.7
4874.64	58.4	V	211.0	100.0	34.4	2.9	42.3	53.5	74.0	-20.5
7314.76	52.0	V	294.0	153.0	35.7	3.1	42.0	48.8	74.0	-25.2
12108.22	49.4	V	340.0	151.0	39.0	4.4	41.8	51.1	74.0	-22.9
15721.0	49.2	V	41.0	176.0	40.6	4.9	40.8	53.9	74.0	-20.1
17952.0	49.4	V	238.0	182.0	41.3	5.2	40.7	55.2	74.0	-18.8

Final Pk = Raw Pk + AF + Loss - Amp

Margin = Final Pk - Limit

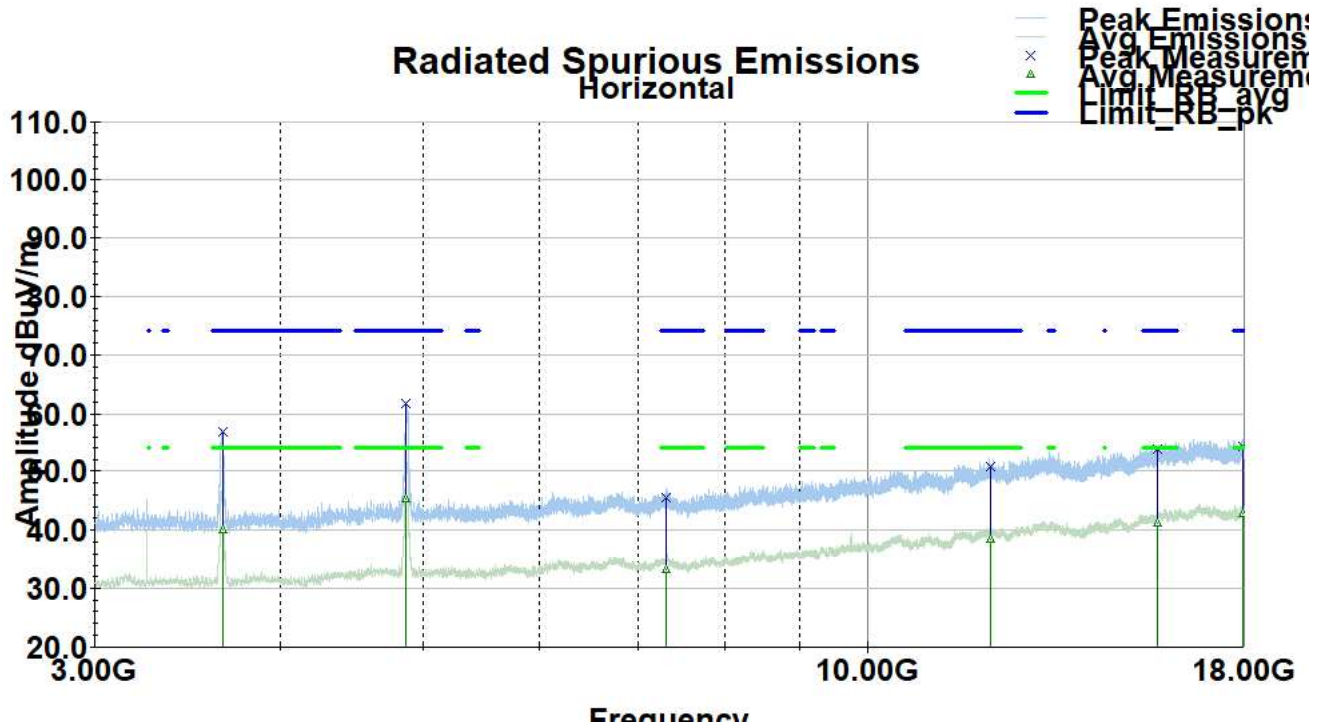
Average

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Avg dBuV/m	Limit dBuV/m	Margin dB
3648.98	39.4	V	9.0	176.0	33.3	2.5	42.0	33.1	54.0	-20.8
4874.64	47.0	V	211.0	100.0	34.4	2.9	42.3	42.0	54.0	-11.9
7314.76	38.0	V	294.0	153.0	35.7	3.1	42.0	34.8	54.0	-19.2
12108.22	36.7	V	340.0	151.0	39.0	4.4	41.8	38.3	54.0	-15.7
15721.0	36.6	V	41.0	176.0	40.6	4.9	40.8	41.3	54.0	-12.7
17952.0	36.7	V	238.0	182.0	41.3	5.2	40.7	42.5	54.0	-11.5

Final Avg = Raw Avg + AF + Loss - Amp

Margin = Final Avg - Limit

(X-Axis) 3-18GHz Horizontal Plot – Mid channel


(X-Axis) 3-18GHz Horizontal Data – Mid channel
Peak

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
3657.14	63.2	H	116.0	102.0	33.3	2.5	42.0	56.9	74.0	-17.1
4869.00	66.8	H	187.0	183.0	34.4	2.9	42.3	61.8	74.0	-12.2
7313.80	48.6	H	79.0	140.0	35.7	3.1	42.0	45.4	74.0	-28.6
12113.02	49.1	H	17.0	170.0	39.0	4.4	41.8	50.7	74.0	-23.3
15725.80	49.1	H	230.0	231.0	40.6	4.9	40.8	53.8	74.0	-20.2
17946.3	48.4	H	148.0	160.0	41.3	5.2	40.7	54.3	74.0	-19.8

Final Pk = Raw Pk + AF + Loss - Amp

Margin = Final Pk - Limit

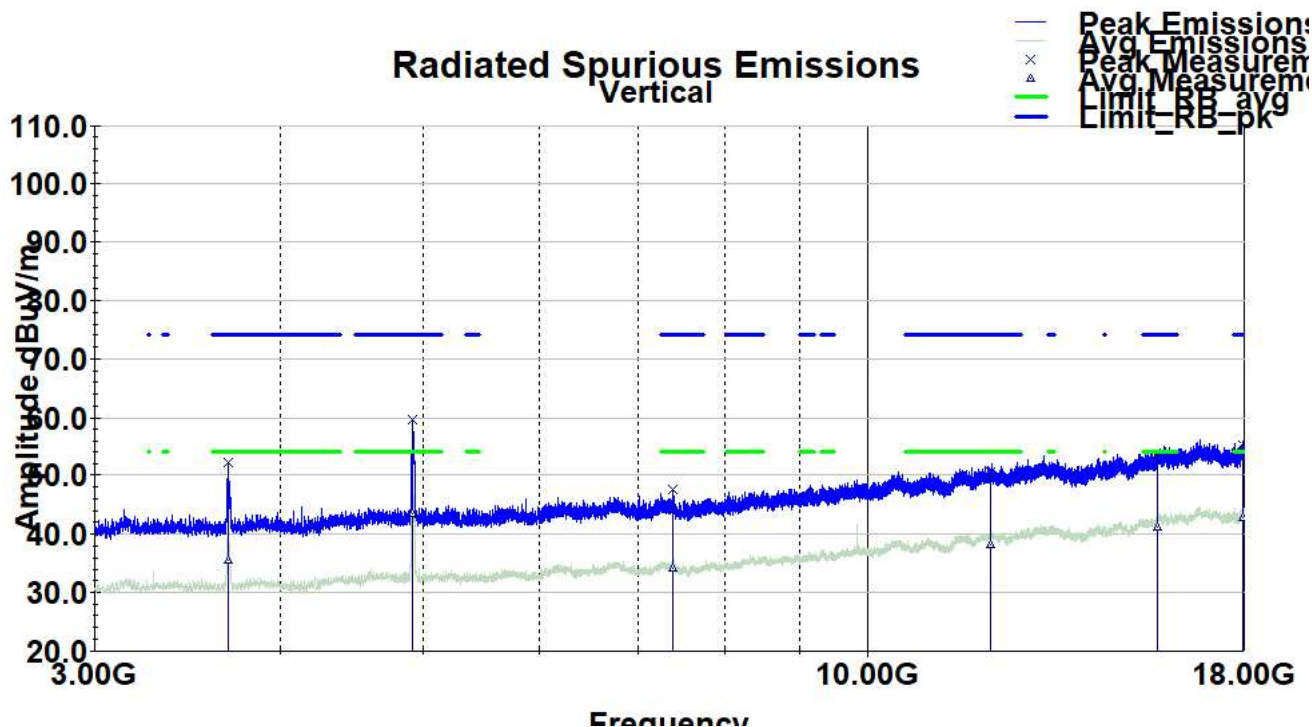
Average

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit dBuV/m	Margin (dB)
3657.14	46.2	H	116.0	102.0	33.3	2.5	42.0	39.9	54.0	-14.1
4869.00	50.2	H	187.0	183.0	34.4	2.9	42.3	45.2	54.0	-8.7
7313.80	36.4	H	79.0	140.0	35.7	3.1	42.0	33.2	54.0	-20.8
12113.02	36.7	H	17.0	170.0	39.0	4.4	41.8	38.3	54.0	-15.7
15725.80	36.5	H	230.0	231.0	40.6	4.9	40.8	41.2	54.0	-12.8
17946.34	36.9	H	148.0	160.0	41.3	5.2	40.7	42.8	54.0	-11.2

Final Avg = Raw Avg + AF + Loss - Amp

Margin = Final Avg - Limit

(X-Axis) 3-18GHz Vertical Plot – High channel


(X-Axis) 3-18GHz Vertical Data – High channel
Peak

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
3691.74	58.4	V	176.0	182.0	33.3	2.5	42.1	52.0	74.0	-22.0
4921.04	64.8	V	16.0	115.0	34.3	2.9	42.2	59.7	74.0	-14.3
7384.36	50.7	V	295.0	209.0	35.7	3.2	42.0	47.7	74.0	-26.3
12115.78	49.0	V	97.0	144.0	39.0	4.4	41.8	50.6	74.0	-23.4
15719.3	48.7	V	257.0	196.0	40.6	4.9	40.8	53.4	74.0	-20.6
17945.4	49.5	V	344.0	243.0	41.3	5.2	40.7	55.3	74.0	-18.7

Final Pk = Raw Pk + AF + Loss - Amp

Margin = Final Pk - Limit

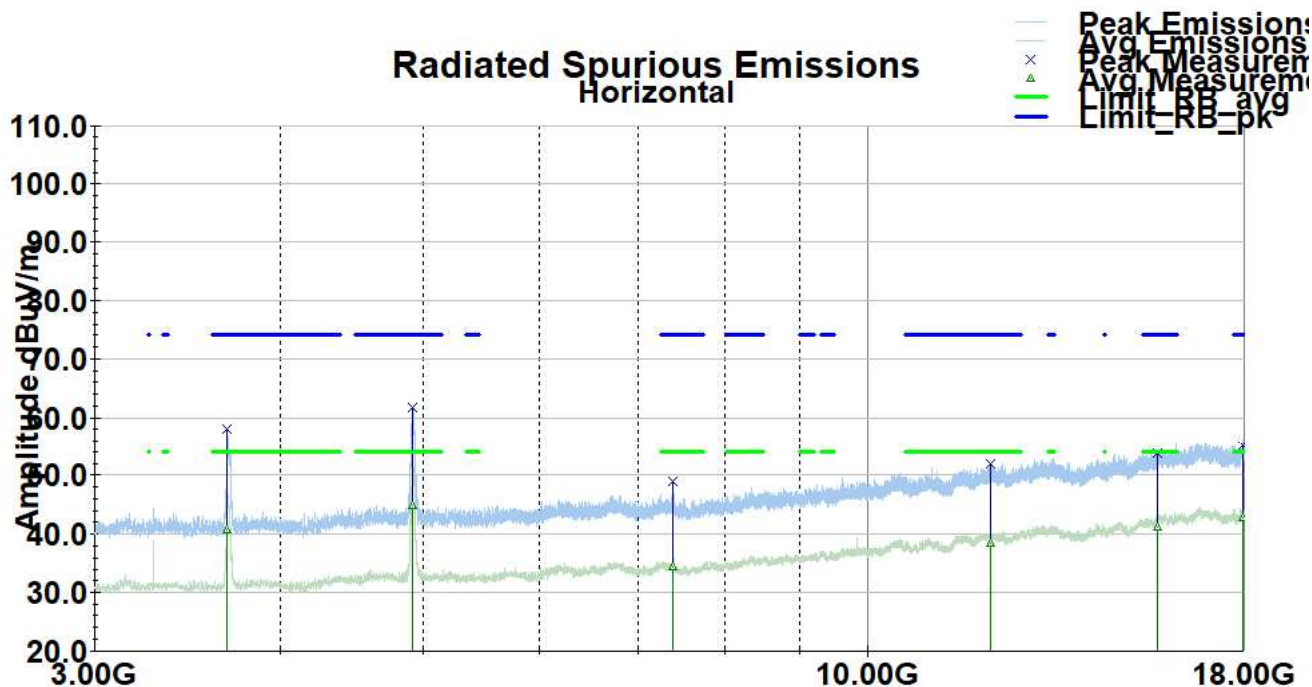
Average

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Avg dBuV/m	Limit dBuV/m	Margin dB
3691.74	41.8	V	176.0	182.0	33.3	2.5	42.1	35.4	54.0	-18.6
4921.04	48.5	V	16.0	115.0	34.3	2.9	42.2	43.5	54.0	-10.5
7384.36	37.0	V	295.0	209.0	35.7	3.2	42.0	34.0	54.0	-20.0
12115.78	36.6	V	97.0	144.0	39.0	4.4	41.8	38.2	54.0	-15.7
15719.3	36.5	V	257.0	196.0	40.6	4.9	40.8	41.2	54.0	-12.8
17945.4	37.0	V	344.0	243.0	41.3	5.2	40.7	42.9	54.0	-11.1

Final Avg = Raw Avg + AF + Loss - Amp

Margin = Final Avg - Limit

(X-Axis) 3-18GHz Horizontal Plot – High channel



(X-Axis) 3-18GHz Horizontal Data – High channel

Peak

Frequency MHz	Raw Pk dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Final Pk dBuV/m	Limit dBuV/m	Margin dB
3686.58	64.5	H	176.0	244.0	33.3	2.5	42.1	58.1	74.0	-15.9
4919.72	66.8	H	191.0	190.0	34.3	2.9	42.2	61.8	74.0	-12.2
7385.08	51.9	H	2.0	100.0	35.7	3.2	42.0	49.0	74.0	-25.0
12108.22	50.3	H	66.0	225.0	39.0	4.4	41.8	51.9	74.0	-22.1
15724.72	48.9	H	11.0	149.0	40.6	4.9	40.8	53.6	74.0	-20.4
17947.2	49.3	H	245.0	183.0	41.3	5.2	40.7	55.1	74.0	-18.9

Final Pk = Raw Pk + AF + Loss - Amp

Margin = Final Pk - Limit

Average

Frequency MHz	Raw Avg dBuV	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	Avg Value dBuV/m	Limit dBuV/m	Margin (dB)
3686.58	47.0	H	176.0	244.0	33.3	2.5	42.1	40.7	54.0	-13.3
4919.72	49.9	H	191.0	190.0	34.3	2.9	42.2	44.9	54.0	-9.1
7385.08	37.3	H	2.0	100.0	35.7	3.2	42.0	34.3	54.0	-19.6
12108.22	36.8	H	66.0	225.0	39.0	4.4	41.8	38.5	54.0	-15.5
15724.72	36.5	H	11.0	149.0	40.6	4.9	40.8	41.2	54.0	-12.8
17947.18	37.1	H	245.0	183.0	41.3	5.2	40.7	42.9	54.0	-11.1

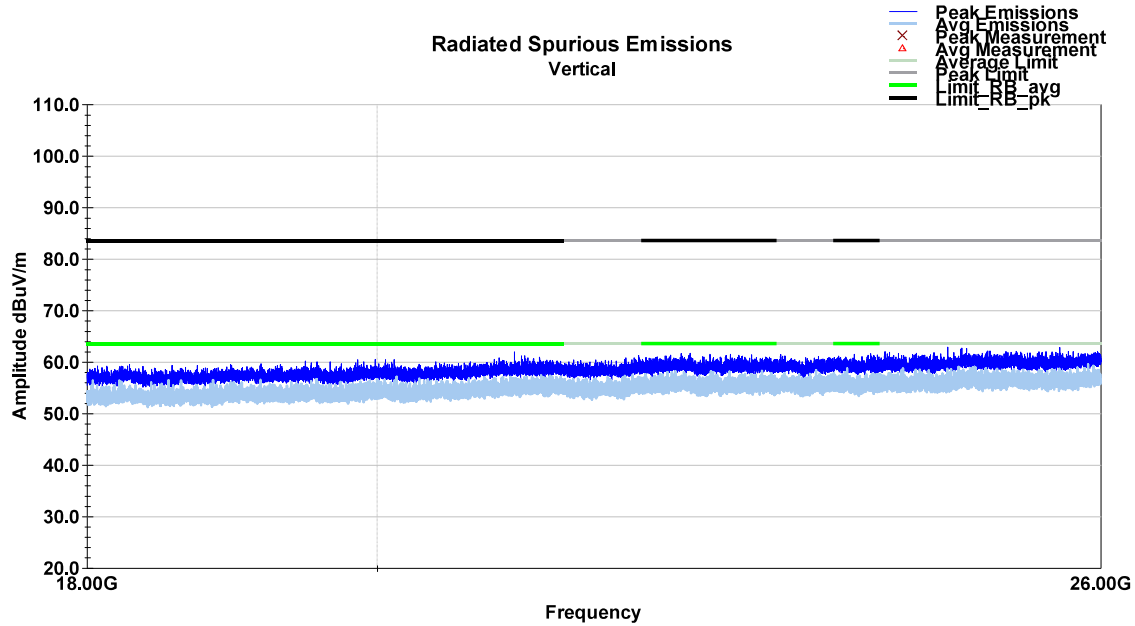
Final Avg = Raw Avg + AF + Loss - Amp

Margin = Final Avg - Limit

7.7.5 18-26 GHz

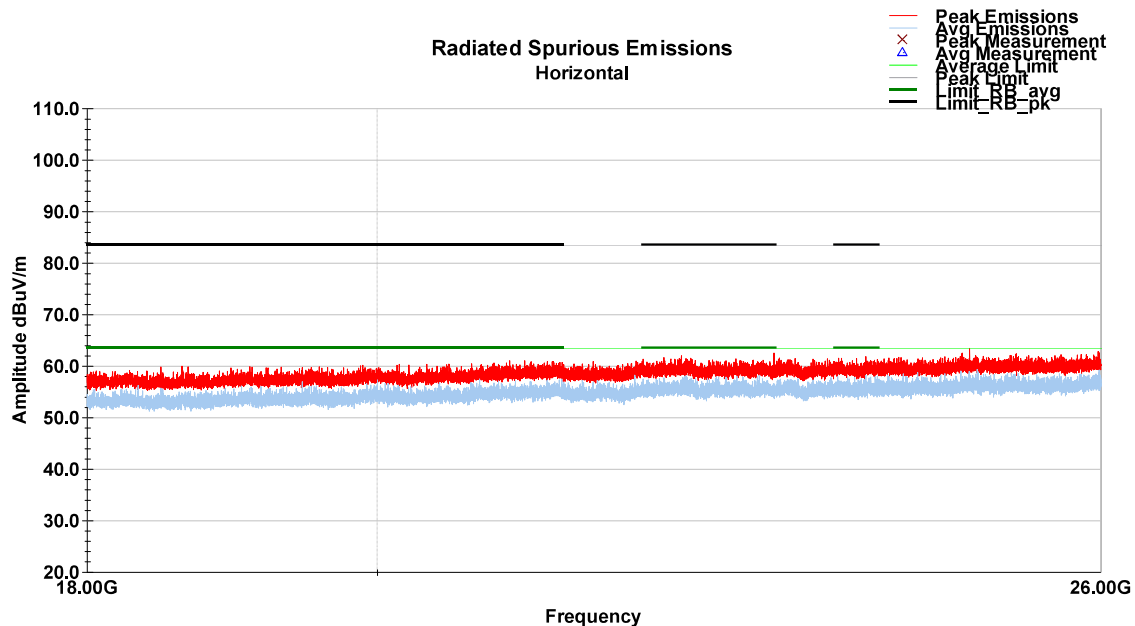
No discernable difference between EUT azimuth angles or channels. Worst Case provided.

(X-Axis) 18-26GHz Vertical Plot – Mid channel



No Emissions within 6db of the limit.

(X-Axis) 18-26GHz Horizontal Plot – Mid channel



No Emissions within 6db of the limit.

8 Emissions in Restricted Frequency Bands

8.1 Test Result

Test Description	Test Specification		Test Result
Restricted Band Emissions	15.205 / 15.209	RSS-GEN S8.9 / 8.10	Compliant

8.2 Test Method

Field strength measurements were performed at the restricted band edges of 2390MHz and 2483.5MHz for each modulation. Measurements were made using the conducted methods defined in ANSI C63.10:2020, Section 11.12.2 and KDB 558074 D01 15.247 Meas Guidance v05r02.

8.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.69°C

Relative Humidity: 34.9 %

Atmospheric Pressure: 98.01 kPa

8.4 Test Equipment

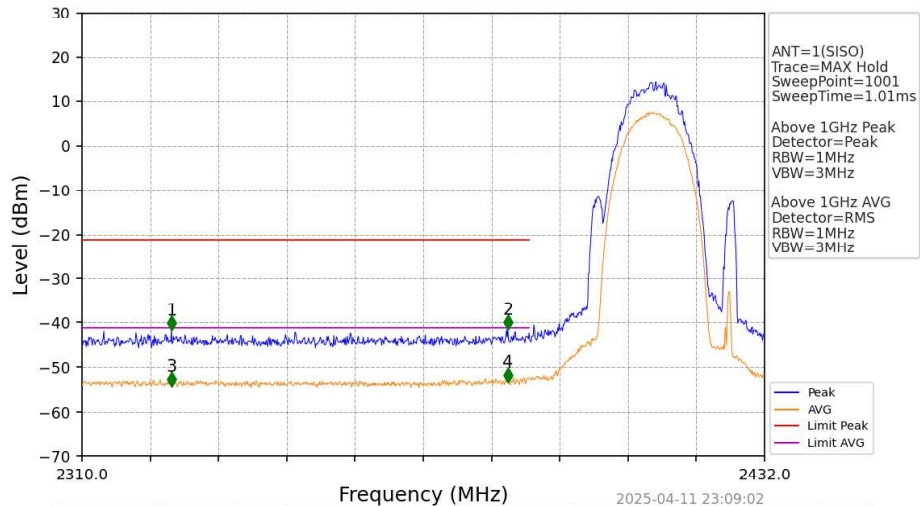
Test End Date: 11-Apr-2025

Tester: SGM

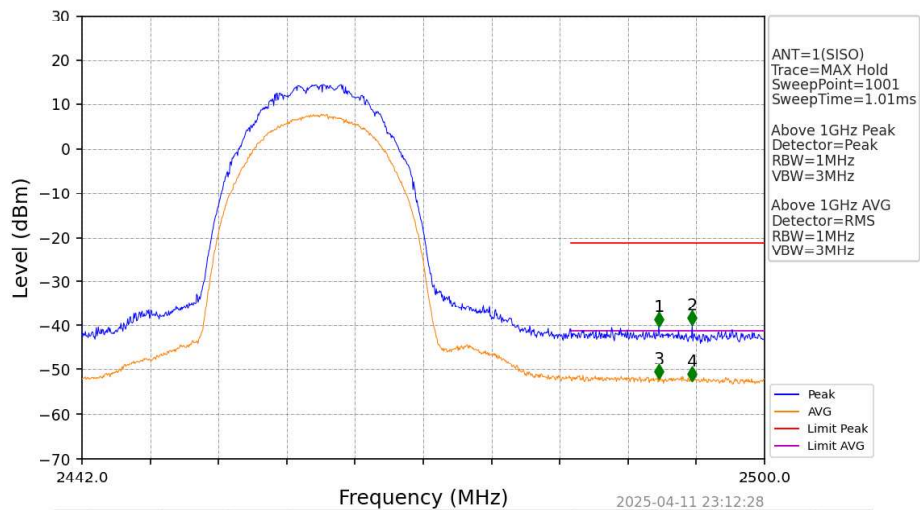
Equipment	Manufacturer	Model	Asset Number	Cal Date	Cal Due Date
RF CABLE SMA TO SMA, 0.01-40GHZ	TELEDYNE STORM MICROWAVE	084-0505-059	20108	3-Apr-2025	3-Apr-2026
TSTPASS SWITCHBOX	TSTPASS	SB2	23009	4-Apr-2025	4-Apr-2026
SIGNAL ANALYZER (TS8997)	ROHDE & SCHWARZ	FSV30	B085749	4-Mar-2025	4-Mar-2026

8.5 Test Data – Band Edge

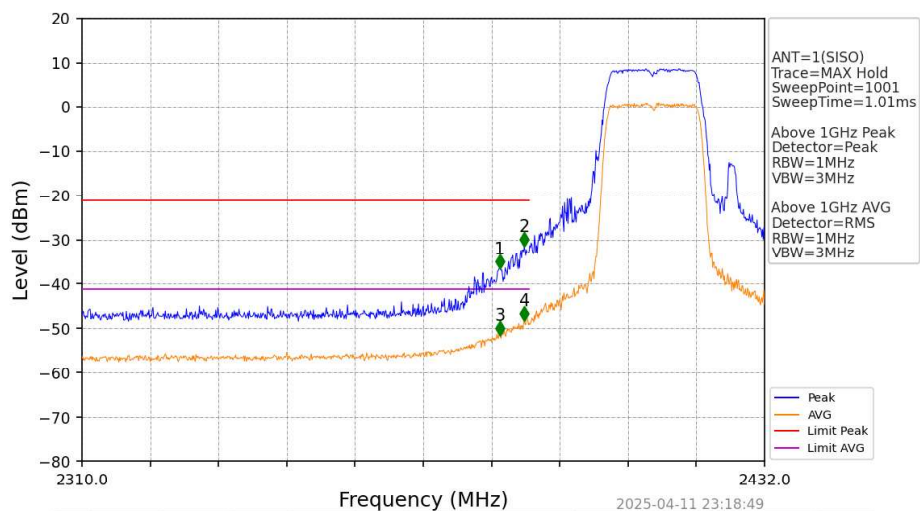
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV

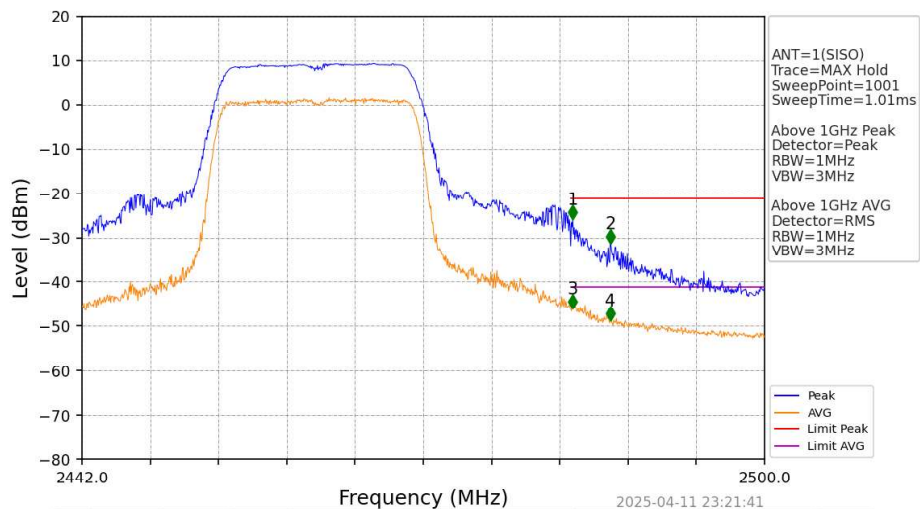


802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



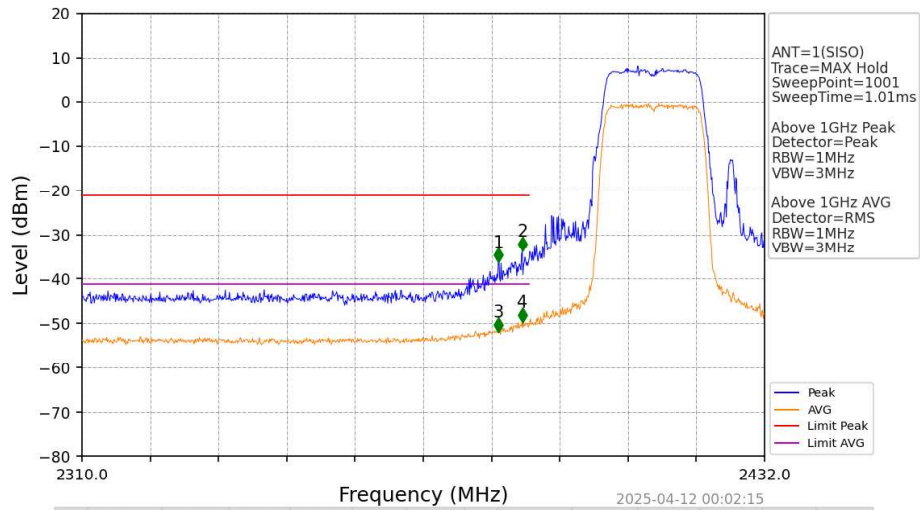
No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2384.664	-36.56	-21.20	15.36	Pass	Peak	3	2384.664	-53.10	-41.20	10.40	Pass	AVG
2	2389.056	-31.56	-21.20	10.36	Pass	Peak	4	2389.056	-49.75	-41.20	7.05	Pass	AVG

802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

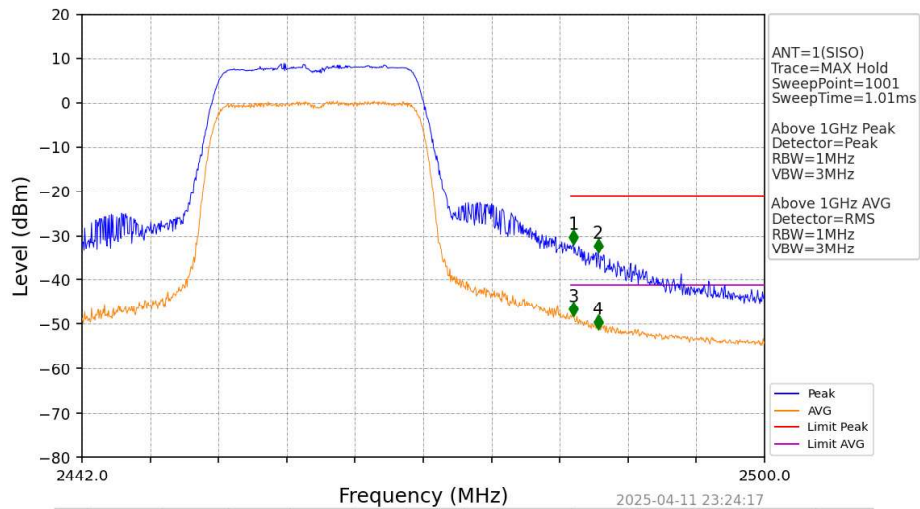


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2483.702	-25.92	-21.20	4.72	Pass	Peak	3	2483.702	-47.52	-41.20	4.82	Pass	AVG
2	2486.892	-31.32	-21.20	10.12	Pass	Peak	4	2486.892	-50.28	-41.20	7.58	Pass	AVG

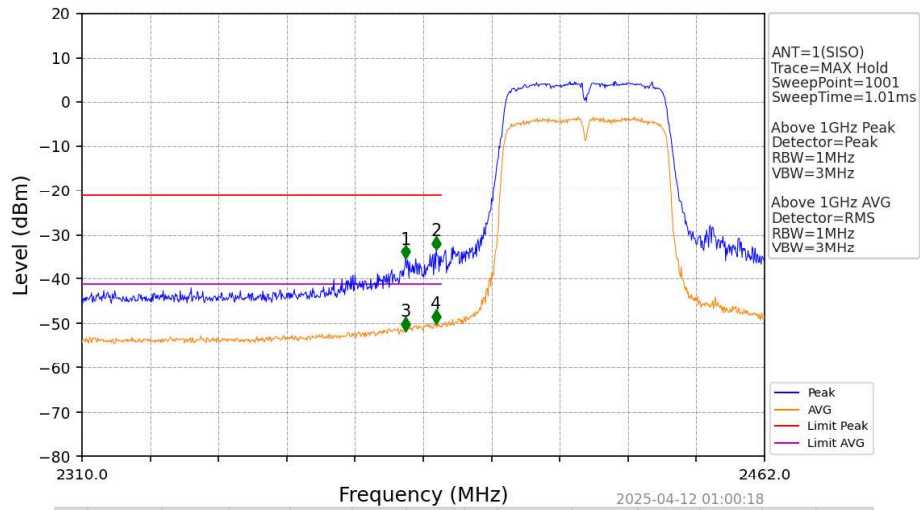
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



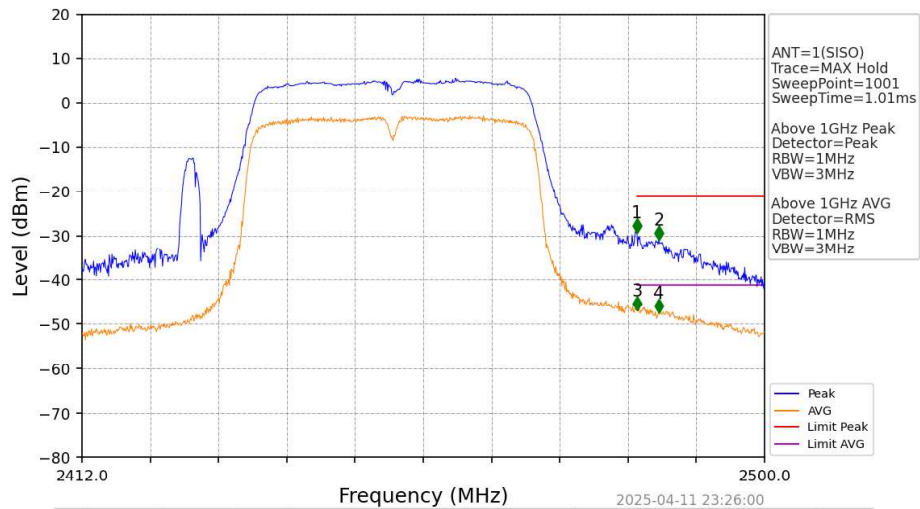
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



9 Antenna Requirement

9.1 Result

Test Description	Test Specification		Test Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-GEN S8.3	Compliant

9.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

9.3 Conclusion

The Device utilizes an internal PCB antenna that is not accessible and cannot be disconnected. This meets the requirements of the standard.

10 AC Powerline Conducted Emissions

10.1 Test Result

Test Description	Test Specification		Test Result
AC Powerline Conducted Emissions	15.207	RSS-GEN S8.8	Compliant

10.2 Test Method

With the receiver's resolution bandwidth was set to 9 kHz, exploratory scans were performed over the measuring frequency range (0.15 MHz to 30 MHz) using a max hold mode incorporating a Peak detector and Average detector and using the TILE! software. The final test data was measured using a Quasi-Peak detector and Average detector and compared against the limits indicated in the table below.

Frequency Range	Limits (dBuV)
0.15 to 0.5 MHz	Avg 56 to 46 QP 66 to 56
0.5 to 5 MHz	Avg 46 Pk 56
5 to 30 MHz	Avg 50 Pk 60

10.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions:

Temperature: 23.97°C

Relative Humidity: 34.6%

Atmospheric Pressure 98.3kPa

10.4 Test Equipment

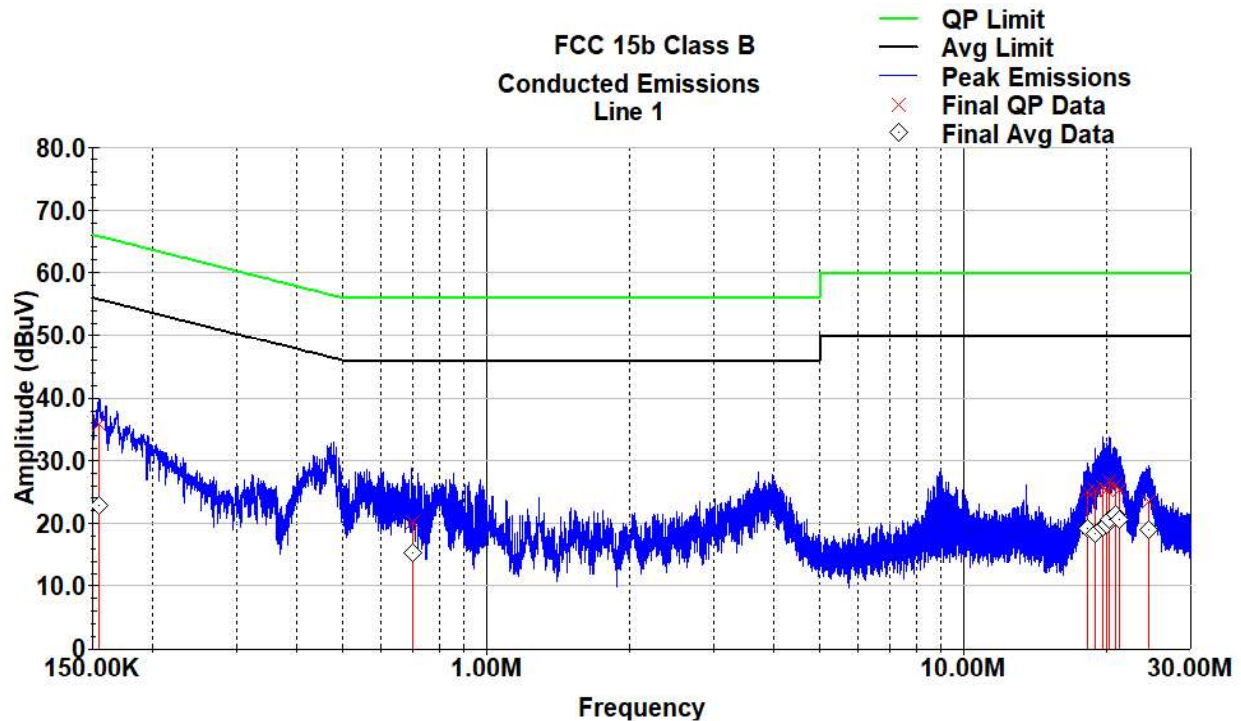
Test End Date: 14-Apr-2025

Tester: PL

Equipment	Model	Manufacturer	Asset Number	Cal Date	Cal Due Date
LINE IMPEDANCE STABILIZATION NETWORK	NNB 51	TESEQ	B087573	4-Feb-2025	4-Feb-2026
RF CABLE	UC-N-MM-78	MAURY MICROWAVE	17017	7-Aug-2024	7-Aug-2025
EMI TEST RECEIVER	ESW44	ROHDE & SCHWARZ	22027	14-Nov-2024	14-Nov-2025

10.5 Test Data

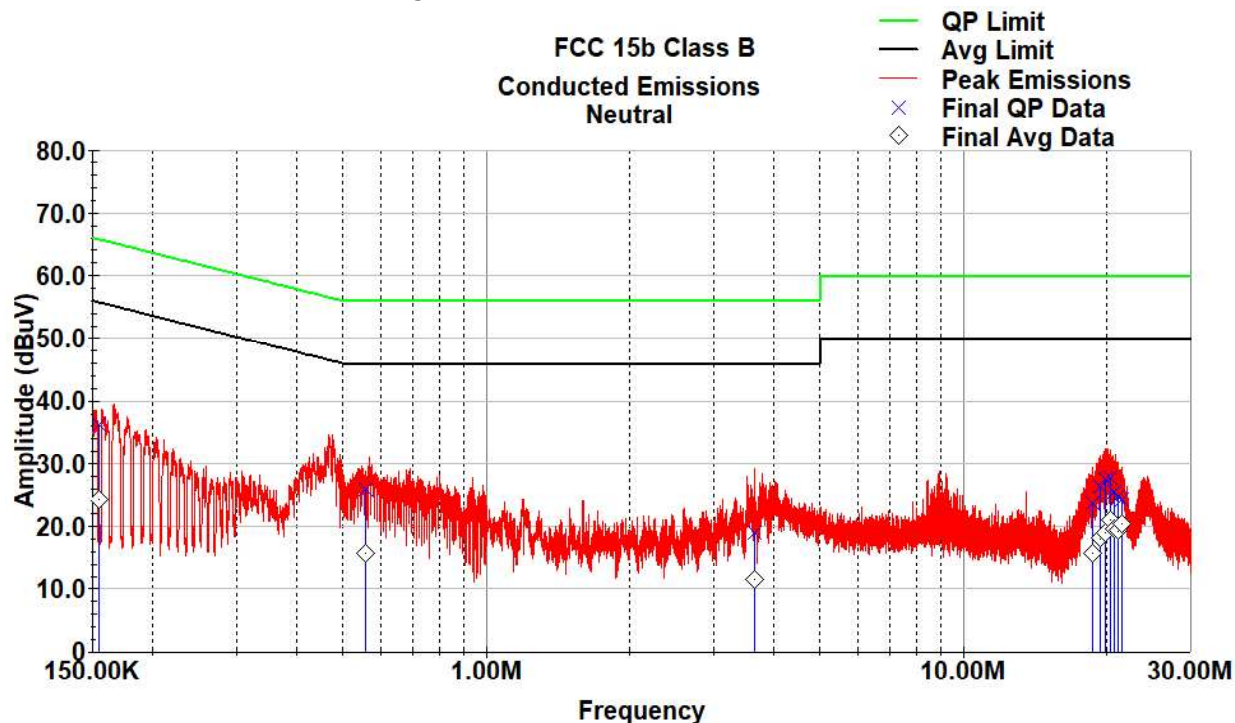
Conducted Emissions Line 1 Plot



Conducted Emissions Line 1 Tabular Data

Frequency MHz	LISN dB	CF dB	TL dB	Raw Avg dBuV	Final Avg dBuV	Avg Limit dBuV	Avg Margin dB	Raw QP dBuV	Final QP dBuV	QP Limit dBuV	QP Margin dB
0.154	9.8	0.00	0.0	13.0	22.8	55.7	-32.9	26.1	36.0	65.7	-29.8
0.701	9.8	0.00	0.0	5.6	15.4	46	-30.6	10.4	20.2	56.0	-35.8
18.244	9.9	0.10	0.0	9.2	19.2	50	-30.8	15.1	25.2	60.0	-34.8
18.918	9.9	0.10	0.0	8.4	18.4	50	-31.6	15.3	25.3	60.0	-34.7
19.558	9.9	0.10	0.0	9.4	19.4	50.0	-30.6	15.7	25.8	60.0	-34.2
19.997	9.9	0.10	0.0	9.9	19.9	50.0	-30.1	15.4	25.4	60.0	-34.6
20.261	9.9	0.10	0.0	10.7	20.7	50.0	-29.3	16.7	26.7	60.0	-33.3
20.804	9.9	0.10	0.0	11.4	21.5	50.0	-28.5	16.2	26.2	60.0	-33.8
21.201	9.9	0.10	0.0	10.6	20.6	50.0	-29.4	15.3	25.3	60.0	-34.7
24.408	10.0	0.10	0.0	9.0	19.1	50.0	-30.9	13.4	23.5	60.0	-36.5
Final QP = Raw QP + LISN + CF + TL											
QP Margin = Final QP - QP Limit											
Final Avg = Raw Avg + LISN + CF + TL											
Avg Margin = Final Avg - Avg Limit											

Conducted Emissions Neutral Plot



Conducted Emissions Neutral Tabular Data

Frequency MHz	LISN dB	CF dB	TL dB	Raw Avg dBuV	Final Avg dBuV	Avg Limit dBuV	Avg Margin dB	Raw QP dBuV	Final QP dBuV	QP Limit dBuV	QP Margin dB
0.154	9.8	0.00	0.0	14.5	24.3	55.7	-31.4	26.5	36.3	65.7	-29.5
0.559	9.8	0.00	0.0	6.0	15.9	46	-30.1	16.2	26	56.0	-30.0
3.653	9.9	0.00	0.0	1.7	11.6	46	-34.4	9.1	19	56.0	-37.0
18.624	9.9	0.10	0.0	5.8	15.8	50	-34.2	13.7	23.7	60.0	-36.3
19.340	9.9	0.10	0.0	8.1	18.1	50.0	-31.9	16.4	26.4	60.0	-33.6
19.900	9.9	0.10	0.0	9.0	19.0	50.0	-31.0	17.6	27.6	60.0	-32.4
20.320	9.9	0.10	0.0	11.0	21.0	50.0	-29.0	17.7	27.6	60.0	-32.4
20.766	9.9	0.10	0.0	9.6	19.6	50.0	-30.4	15.5	25.5	60.0	-34.5
21.148	9.9	0.10	0.0	9.4	19.3	50.0	-30.7	14.8	24.8	60.0	-35.2
21.486	9.9	0.10	0.0	10.4	20.4	50.0	-29.6	14.4	24.3	60.0	-35.7
Final QP = Raw QP + LISN + CF + TL											
QP Margin = Final QP - QP Limit											
Final Avg = Raw Avg + LISN + CF + TL											
Avg Margin = Final Avg - Avg Limit											

11 Measurement Uncertainty

The measurement uncertainty figures are be calculated in accordance with TR 100 028-1 [2] and correspond to an expansion factor (coverage factor) $k = 2$ (which provide confidence levels of 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

Measurement uncertainty is not used to adjust the measurements to determine compliance.

Parameter	Expanded Uncertainty for Normal k factor equal to 2	
	Required	Laboratory Actual
Radio Frequency	$\pm 1 \times 10^{-5}$	$\pm 9.8 \times 10^{-8}$
total RF power, conducted	± 1.5 dB	± 1.2 dB
RF power density, conducted	± 3 dB	± 0.7 dB
spurious emissions, conducted	± 3 dB	± 2.1 dB
all emissions, radiated	± 6 dB	± 4.8 dB
temperature	$\pm 1^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$
humidity	± 5 %	$\pm 3.5\%$
DC and low frequency voltages	± 3 %	$\pm 0.4\%$

12 Revision History

Revision Level	Description of changes	Revision Date
DRAFT	Draft Release	09 May 2025
0	Initial Release	11 June 2025
1	Corrected ISED IC number. Updated Rev of standard. Updated Equipment under test to base station.	09 September 2025
2	Correct revision of KDB 558074 standard. Added additional test points to RSE test data.	16 September 2025