

CERTIFICATION TEST REPORT

Report Number. : S-4792147575-E9V1

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : SM-F971U, SM-F971U1

FCC ID : A3LSMF971U

EUT Description : GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be,
NFC, WPT, UWB and NB-NTN

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C

Date Of Issue:

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Revision History

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, NFC, WPT, UWB and NB-NTN

MODEL NUMBER: SM-F971U, SM-F971U1

SERIAL NUMBER: 9bb3df7d5d4f7ee (CONDUCTED);
R3GL10KMYCZ, R3GL10KMFCP, R3GL10KMPTN (RADIATED);

DATE TESTED: 2026-03-03 ~ 2026-04-24

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
47 CFR Part 15 Subpart C	Complies

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Tested By:



Sungeun Lee
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

1. FCC 47 CFR Part 2.
2. FCC 47 CFR Part 15.
3. KDB 558074 D01 15.247 Meas Guidance v05r02.
4. KDB 662911 D01 v02r01
5. ANSI C63.10-2020.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
☒	Chamber 1(3m semi-anechoic chamber)
☒	Chamber 2(3m semi-anechoic chamber)
☒	Chamber 3(3m semi-anechoic chamber)
☐	Chamber 4(3m Full-anechoic chamber)
☐	Chamber 5(3m Full-anechoic chamber)

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 28.9 \text{ dBuV/m} &= 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} \end{aligned}$$

$$\begin{aligned} \text{AC Corrected Reading (dBuV)} &= \text{Measured Voltage (dBuV)} + \text{Extension Cord} \\ &\text{Loss (dB)} + \text{Cable Loss (dB)} \\ 44.72 \text{ dBuV} &= 34.72 \text{ dBuV} + 9.9 \text{ dB} + 0.1 \text{ dB} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
RF Output Power	0.70 dB
Power Spectral Density	1.99 dB
Occupied Bandwidth	0.04 %
Conducted Spurious Emissions	2.00 dB
Conducted Disturbance, 0.15 to 30 MHz	1.84 dB
Radiated Disturbance, 9 kHz to 30 MHz	2.41 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.78 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.25 dB
Radiated Disturbance, Above 18 GHz	5.07 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULES

Decision rule for statement(s) of conformity is based on Clause 4.4.3 in IEC Guide 115:2023.

5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, NFC, WPT, UWB and NB-NTN. This test report addresses the DTS (BLE) operational mode.

Representative model	Comparison Criteria	Derivative model
		SM-F971U1
SM-F971U	Hardware	Identical
	Software	The UI changed according to Service Provider.

The SM-F971U model was used as the representative model for final testing. All test results in this report apply to both the representative model and its derivative variants.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak and average conducted output power as follows:

Antenna1

Frequency Range[MHz]	Mode	Power Mode	Output Power [dBm]	Output Power [mW]
2 402 ~ 2 480	1 Mbps (37 pkt)	Peak	19.36	86.30
		Average	19.20	83.23
2 404 ~ 2 478	2Mbps (255 pkt)	Peak	19.58	90.78
		Average	19.05	80.39
2 404 ~ 2 478	CS_SYNC_1M	Peak	20.52	112.72
		Average	19.94	98.65

Antenna2

Frequency Range[MHz]	Mode	Power Mode	Output Power [dBm]	Output Power [mW]
2 402 ~ 2 480	1 Mbps (37 pkt)	Peak	18.92	77.98
		Average	18.65	73.23
2 404 ~ 2 478	2Mbps (255 pkt)	Peak	18.97	78.89
		Average	18.48	70.40
2 404 ~ 2 478	CS_SYNC_1M	Peak	20.40	109.65
		Average	19.80	95.41

Antenna Dual mode

Frequency Range[MHz]	Mode	Power Mode	Output Power [dBm]	Output Power [mW]
2 402 ~ 2 480	1 Mbps (37 pkt)	Peak	16.78	47.67
		Average	16.61	45.79
2 404 ~ 2 478	2Mbps (255 pkt)	Peak	16.84	48.28
		Average	16.49	44.57

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

**The internal antenna was Permanently attached.
Therefore this E.U.T Complies with the requirement of §15.203.**

The radio utilizes a internal antenna, with a maximum gain of:

Frequency Band[MHz]	ANT1 Gain [dBi]	ANT2 Gain [dBi]	Correlated Chains Directional Gain[dBi]
DTS 2400 – 2483.5	-6.99	-4.25	-2.50

Directional gain for the MIMO operations is determined using KDB 662911 D01 Multiple Transmitter Output section F (2)(d)(1) for *Unequal antenna gains, with equal transmit powers*. The gain is calculated using the formula for correlated transmissions across the two transmit antennas.

Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ dBi.

Sample calculation for this device with $N_{ANT} = 2$

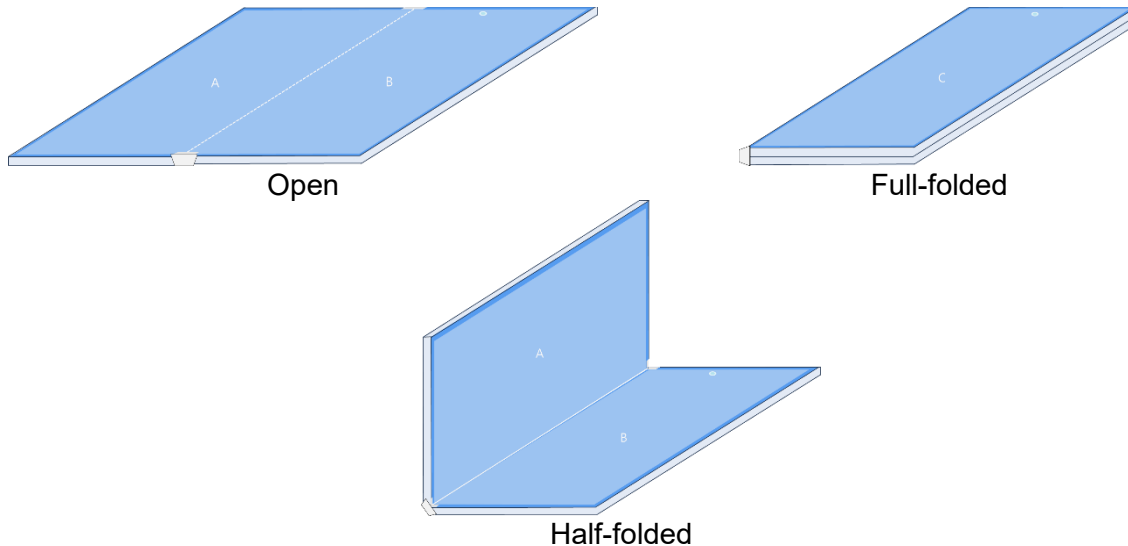
Directional gain = $10 \log[(10^{-6.99/20} + 10^{-4.25/20})^2 / 2] = -2.50$ dBi

“SUB1” and “SUB5” as indicated in antenna specification are written as ANT1 and ANT2 in this report.

5.4. WORST-CASE CONFIGURATION AND MODE

Both Bluetooth LE Diversity mode and DUAL mode have been investigated and confirmed.

The fundamentals of the EUT were investigated in three orthogonal orientations X, Y and Z. It was determined that below table's orientation was the worst-case orientation.



Worst-case		ANT1	ANT2	DUAL
Axis	Band-Edge	X (Half-Folded)	Z (Open)	X (Open)
	Spurious	X (Open)	Y (Open)	X (Half-Folded)

For conducted power test, both Diversity and DUAL mode were tested and reported. For Dual mode, only the worst conducted power for packet size was reported, since no noticeable emissions were detected in the other test items.

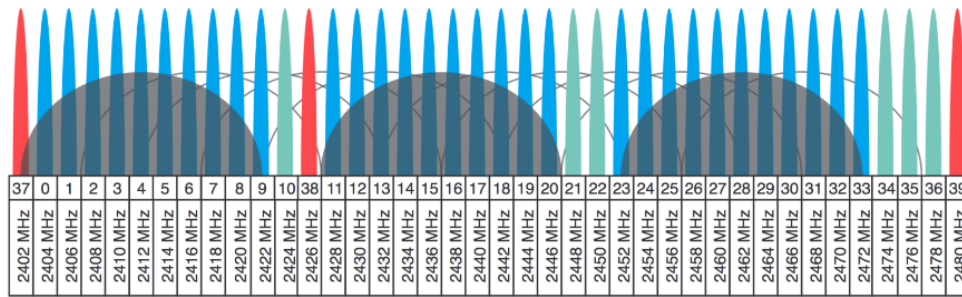
Radiated and power line conducted tests were performed with EUT connected to AC power adapter as the worst-case configuration. Radiated harmonics spurious 1~18 GHz Low/Mid/High channels, 18-26GHz were performed with the EUT set at the Diversity and DUAL mode. Radiated emission below 1GHz and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

For Radiated band-edge and spurious test, tests were performed on Diversity and DUAL mode.

Due to modulation characteristics, BLE coded data was worse than 1Mbps in the RBW 3kHz PSD results. However, based on the RBW (1MHz) when measuring radiated spurious, the PSD of 1Mbps is higher, so 1Mbps was selected as the worst case to suit the radiation test environment.

All radiated and power line conducted tests were performed attached with travel adapter for the worst-case condition mode.

The EUT does not supported Primary PHY channels (2402[37] / 2426[38] / 2480[39] MHz) at the BLE 2Mbps data-rate. BLE Channels that used for testing are follows in below.



Bluetooth LE Channel Sounding supports CS_SYNC_1M and CS_TONE_ASK (DSS). For CS_SYNC_1M, the output power is lower than the existing 1 Mbps, and since the duty cycle in actual use is very short, the measurement data of the existing 1 Mbps was used to represent CS_SYNC_1M.

Power verification

The output power of all data rates was investigated. The 1 Mbps, 2 Mbps, and CS_SYNC_1M modes represent the worst case in terms of symbol rate. All tests were performed in these three modes.

Symbol Rate [Ms/s]	Mode	Freq. [MHz]	Conducted Burst Avg [dBm]	Symbol Rate [Ms/s]	Mode	Freq. [MHz]	Conducted Burst Avg [dBm]
1	1 Mbps 37 pkt ANT1	2 402	19.203	2	2 Mbps 37 pkt ANT1	2 404	18.122
		2 440	18.725			2 440	17.902
		2 480	19.090			2 478	18.170
	1 Mbps 37 pkt ANT2	2 402	18.468		2 Mbps 37 pkt ANT2	2 404	17.592
		2 440	18.647			2 440	17.542
		2 480	18.363			2 478	17.480
	1 Mbps 255 pkt ANT1	2 402	19.081		2 Mbps 255 pkt ANT1	2 404	19.047
		2 440	18.546			2 440	18.430
		2 480	19.036			2 478	19.052
	1 Mbps 255 pkt ANT2	2 402	18.334		2 Mbps 255 pkt ANT2	2 404	18.309
		2 440	18.450			2 440	18.392
		2 480	18.245			2 478	18.476
1 Coded S=8	125 kbps 37 pkt ANT1	2 402	8.137	1 Coded S=2	500 kbps 37 pkt ANT1	2 402	8.153
		2 440	8.572			2 440	8.594
		2 480	6.717			2 480	6.739
	125 kbps 37 pkt ANT2	2 402	9.623		500 kbps 37 pkt ANT2	2 402	9.634
		2 440	9.524			2 440	9.530
		2 480	8.359			2 480	8.414
	125 kbps 255 pkt ANT1	2 402	8.107		500 kbps 255 pkt ANT1	2 402	8.135
		2 440	8.546			2 440	8.563
		2 480	6.685			2 480	6.705
	125 kbps 255 pkt ANT2	2 402	9.611		500 kbps 255 pkt ANT2	2 402	9.620
		2 440	9.514			2 440	9.529
		2 480	8.348			2 480	8.367
1	CS_SYNC_1M ANT1	2 404	19.742				
		2 440	19.344				
		2 478	19.941				
	CS_SYNC_1M ANT2	2 404	18.706				
		2 440	19.050				
		2 478	19.796				

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-T2510	N/A	N/A
Data Cable	SAMSUNG	EP-DN980	N/A	N/A

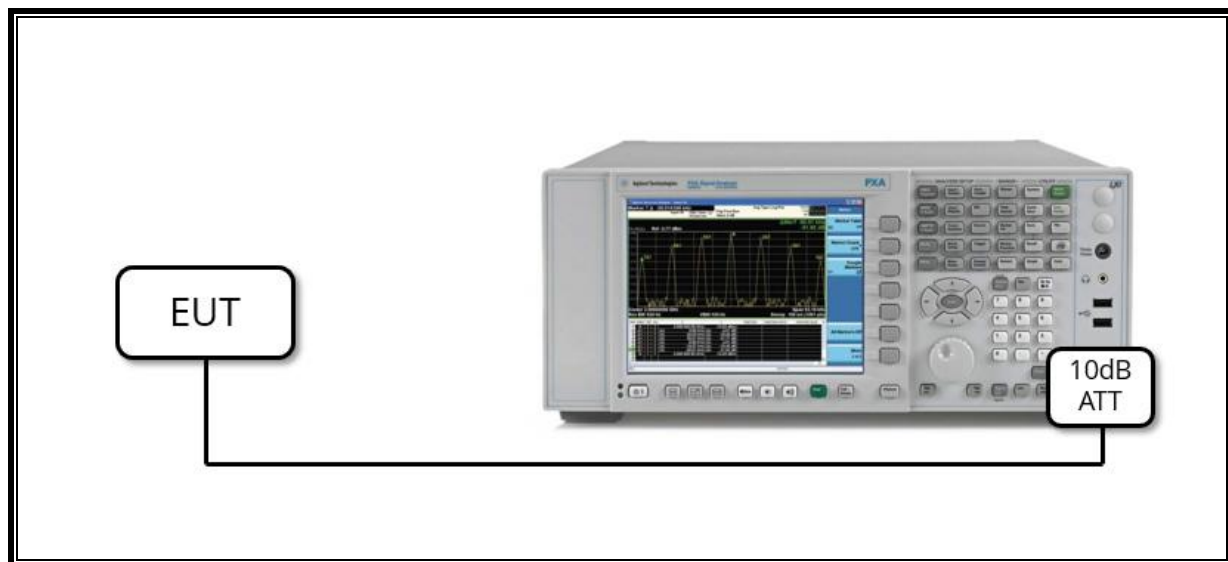
I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

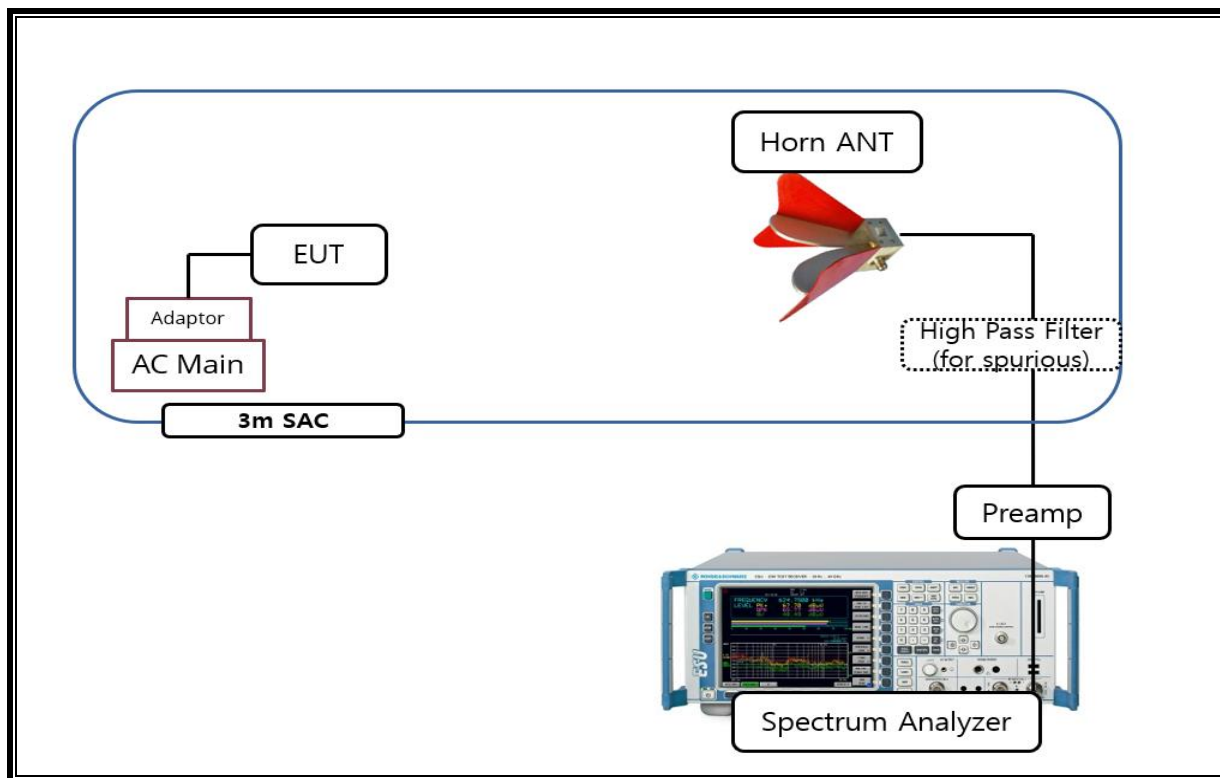
TEST SETUP

The EUT is a stand-alone unit during the tests.
Test software in hidden menu exercised the EUT to enable BLE mode.

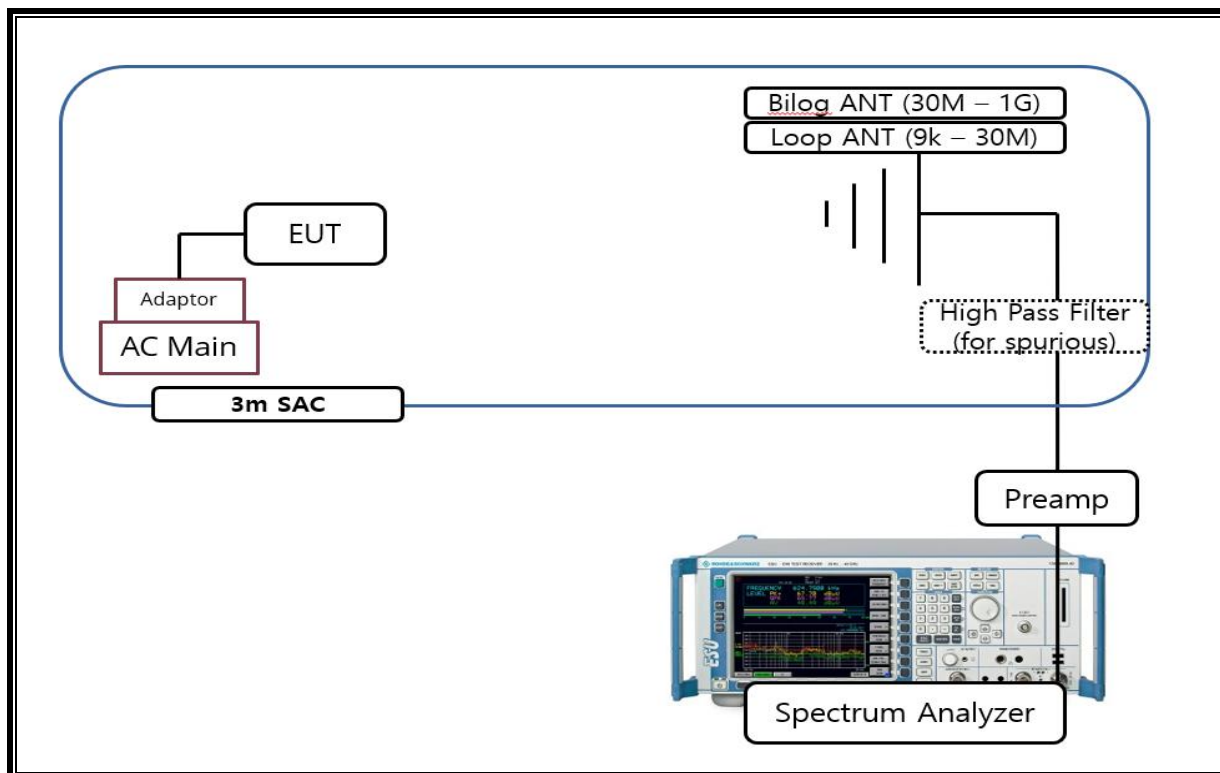
SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP) Below 1GHz



6. MEASUREMENT METHOD

6 dB BW : ANSI C63.10-2020, Section 11.8.2 Option 2

OUTPUT POWER: ANSI C63.10-2020, Section 11.9.1.1 $RBW \geq$ DTS bandwidth

POWER SPECTRAL DENSITY: ANSI C63.10-2020, Section 11.10.2 Method PKPSD (peak PSD)

Out-of-band Emissions (Conducted): ANSI C63.10-2020, Section 11.11 Emissions in nonrestricted frequency bands

Out-of-band Emissions in Non-restricted Bands: ANSI C63.10-2020, Section 11.11 Emissions in nonrestricted frequency bands

Out-of-band Emissions in Restricted Bands: ANSI C63.10-2020, Section 11.12 Emissions in restricted frequency bands

AC Power Line Conducted Emission: ANSI C63.10-2020, Section 6.2

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	750	2026-07-30
Antenna, Horn, 18 GHz	ETS	3117	00168717	2026-07-17
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2026-07-23
Preamplifier	ETS	3116C-PA	00168841	2026-07-28
Preamplifier, 1000 MHz	Sonoma	310N	341282	2026-07-21
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2026-07-21
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2026-07-21
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2026-12-29
RF Switching Unit	TA Engineering	TA-018S-16	SW-1	N/A
Average Power Sensor	Agilent / HP	U2000A	MY54270007	2026-07-22
Average Power Sensor	Agilent / HP	U2000A	MY54260010	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A001	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A008	2026-07-22
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2026-07-21
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2026-07-21
EMI Test Receive	R&S	ESW 8	101227	2026-07-17
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	009	2026-07-21
High Pass Filter 3GHz	Micro-Tronics	HPM17543	010	2026-07-21
High Pass Filter 6GHz	Micro-Tronics	HPS17542	21	2026-07-21
LISN	R&S	ENV216	101837	2026-07-22
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2E	100900	2027-07-24
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted software	UL	UL EMC	Ver 9.5	

8. TEST RESULTS SUMMARY

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result
15.247 (a)(2)	Occupied Bandwidth(6dB)	> 500kHz	Conducted	Complies
2.1051, 15.247(d)	Band Edge / Conducted Spurious Emission	-20 dBc		Complies
15.247 (b)(3)	TX conducted output power	< 30 dBm		Complies
15.247(e)	PSD	< 8 dBm/3kHz		Complies
15.207(a)	AC Power Line conducted emissions	Section 11	Power Line conducted	Complies
15.205, 15.209	Radiated Spurious Emission	< 54dBuV/m(Av)	Radiated	Complies

9. ANTENNA PORT TEST RESULTS

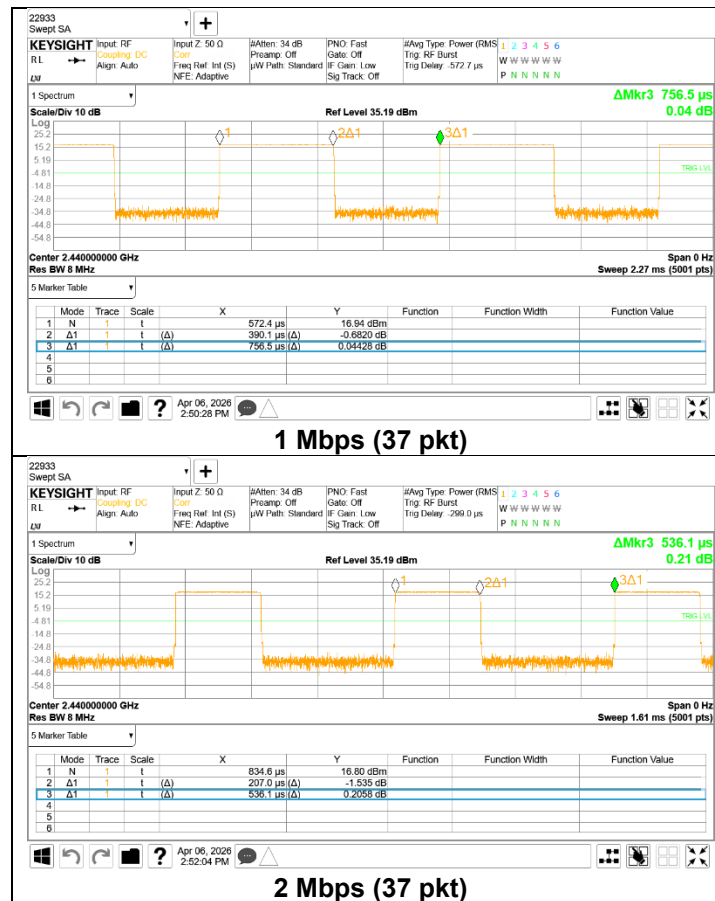
9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

Mode	On time [msec]	Period [msec]	Duty cycle x [Linear]	Duty Cycle [%]	Duty Cycle Correction Factor [dB]	1/T Minimum VBW [kHz]
2 400 ~ 2 483.5 MHz Bands						
1 Mbps [37pkt]	0.390	0.757	0.5152	51.52	2.88	2.56
1 Mbps [255pkt]	2.125	2.499	0.8503	85.03	0.70	0.47
2 Mbps [37pkt]	0.207	0.536	0.3862	38.62	4.13	4.83
2 Mbps [255pkt]	1.076	1.408	0.7642	76.42	1.17	0.93

Note: Due to All diversity and Dual mode have the same duty cycle, the duty cycle of ANT1 is reported as a representative in the table above.



9.2. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

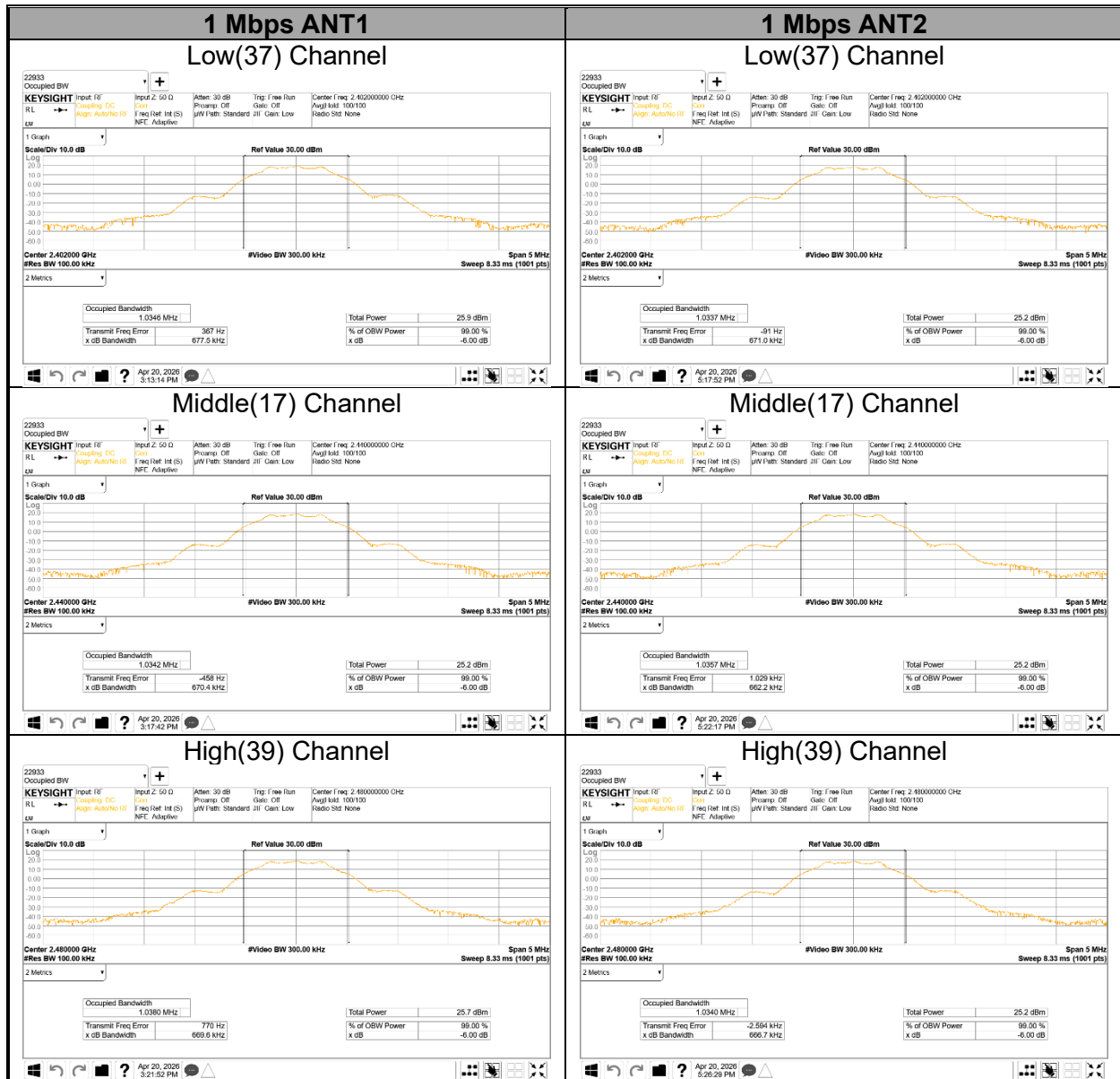
The minimum 6 dB bandwidth shall be at least 500 kHz.

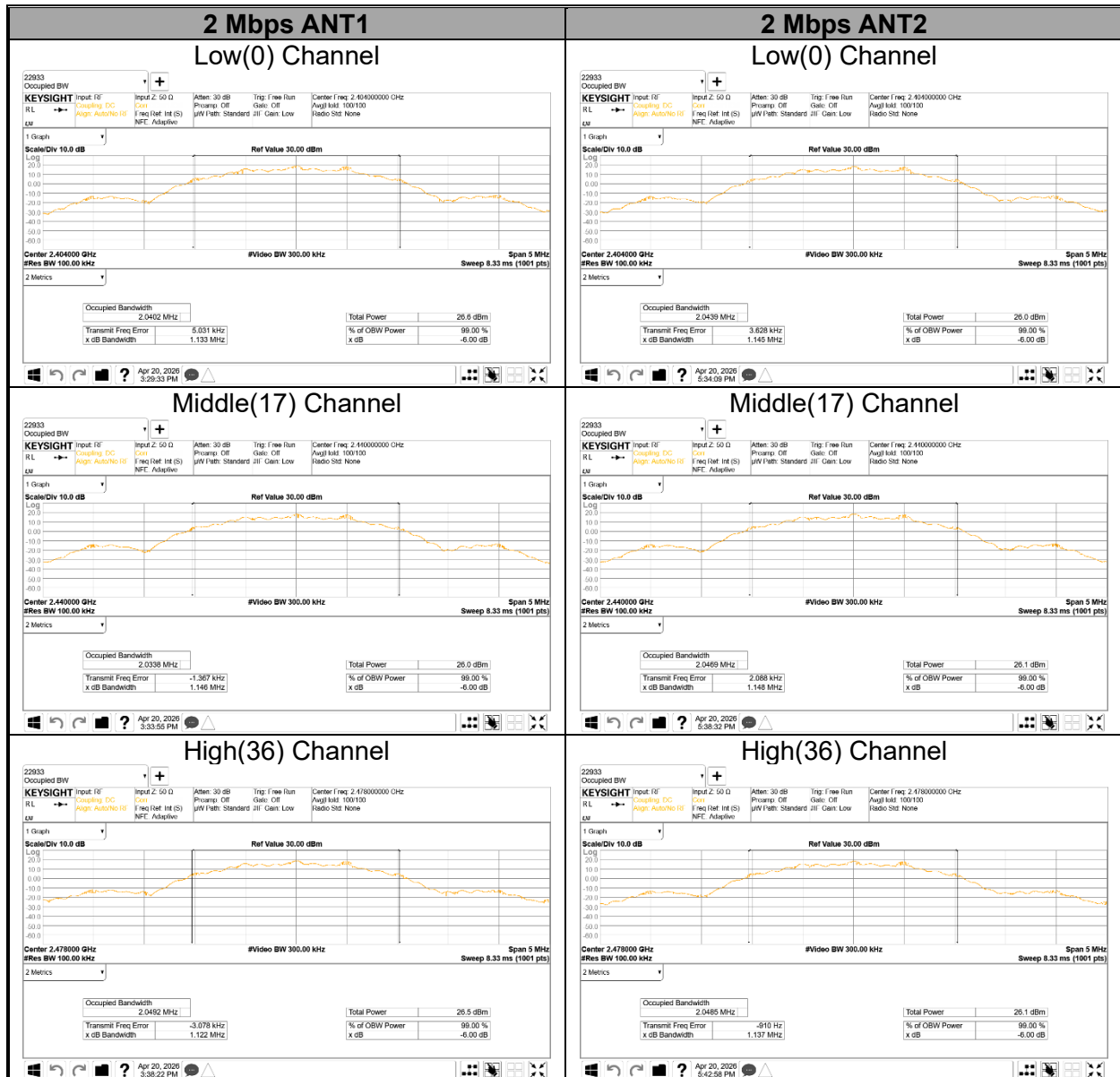
RESULTS

9.2.1. Test data

Mode	Antenna	Channel	Frequency [MHz]	6 dB Bandwidth [kHz]	Minimum Limit [kHz]
1 Mbps (37pkt)	ANT1	37	2 402	677.5	500.0
		17	2 440	670.4	
		39	2 480	669.6	
	ANT2	37	2 402	671.0	
		17	2 440	662.2	
		39	2 480	666.7	
2 Mbps (255pkt)	ANT1	0	2 404	1133.0	
		17	2 440	1146.0	
		36	2 478	1122.0	
	ANT2	0	2 404	1145.0	
		17	2 440	1148.0	
		36	2 478	1137.0	
Worst				662.2	

9.2.2. 6 dB BANDWIDTH PLOTS





9.3. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

TEST PROCEDURE

Peak power is measured using ANSI C63.10(2020) under section 11.9.1.1 utilizing spectrum analyzer(RBW $\geq$ DTS bandwidth).

RESULTS

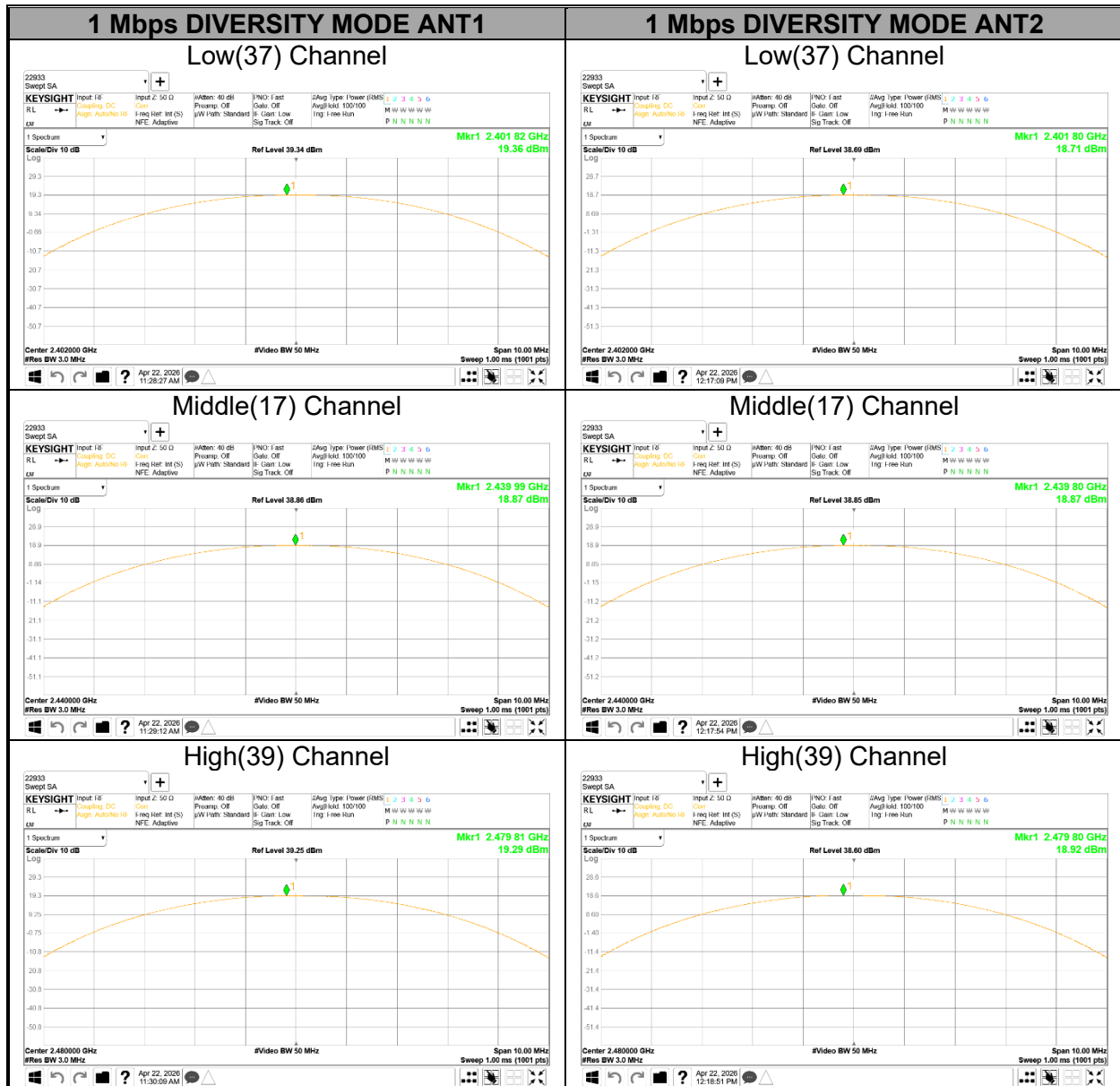
9.3.1. DIVERSITY MODE TEST DATA

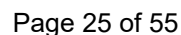
Mode	Antenna	Channel	Frequency [MHz]	Peak Output Power [dBm]	Limit [dBm]	Margin [dB]
1 Mbps (37 pkt)	ANT1	37	2 402	19.36	30.00	-10.64
		17	2 440	18.87		-11.13
		39	2 480	19.29		-10.71
	ANT2	37	2 402	18.71		-11.29
		17	2 440	18.87		-11.13
		39	2 480	18.92		-11.08
2 Mbps (255 pkt)	ANT1	0	2 404	19.35		-10.65
		17	2 440	19.08		-10.92
		36	2 478	19.58		-10.42
	ANT2	0	2 404	18.70		-11.30
		17	2 440	18.78		-11.22
		36	2 478	18.97		-11.03
CS SYNC 1 M	ANT1	0	2 404	20.30		-9.70
		17	2 440	19.89		-10.11
		36	2 478	20.52		-9.48
	ANT2	0	2 404	19.27		-10.73
		17	2 440	19.64		-10.36
		36	2 478	20.40		-9.60
Worst				20.52		-9.48

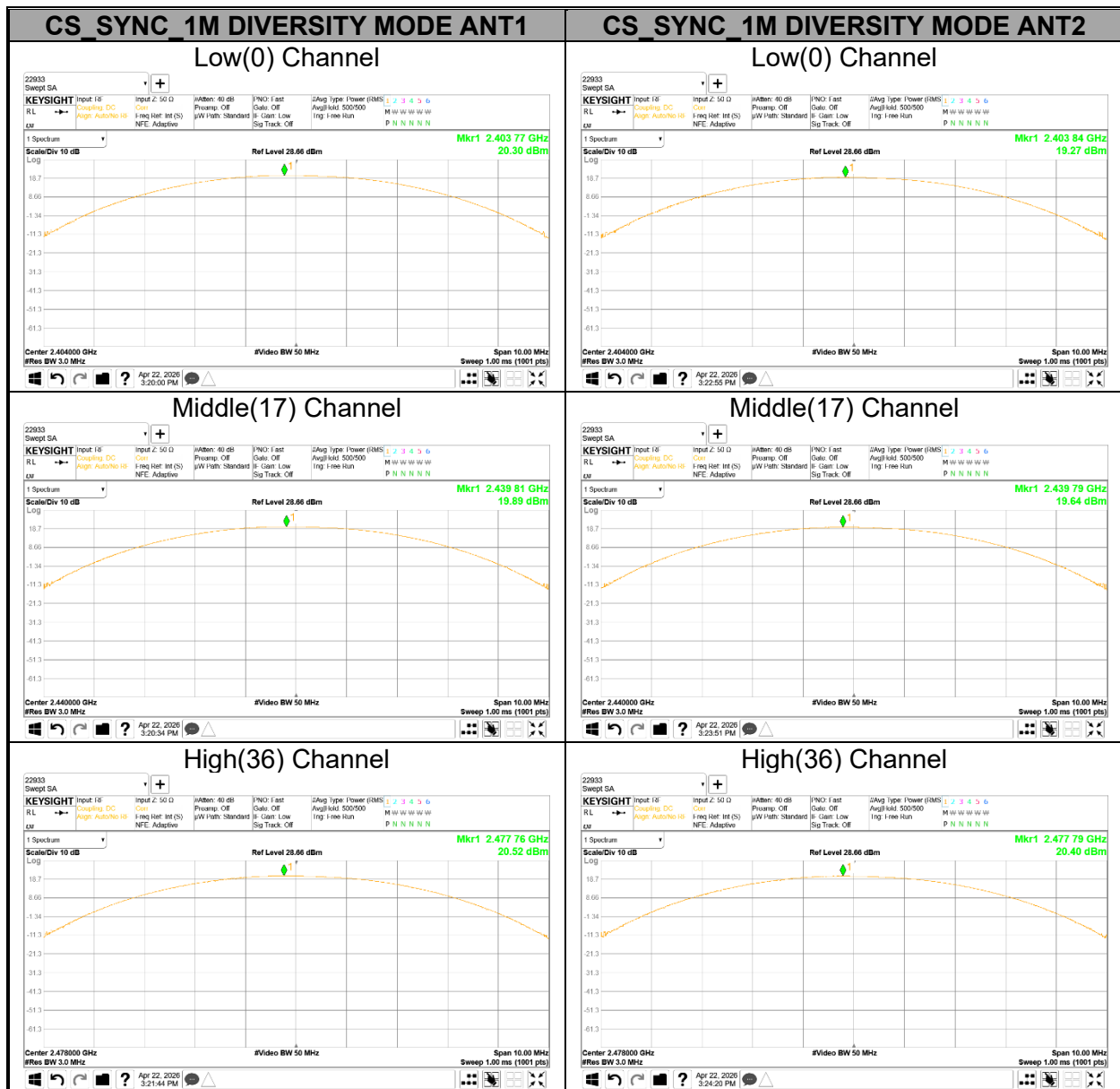
9.3.2. DUAL MODE TEST DATA

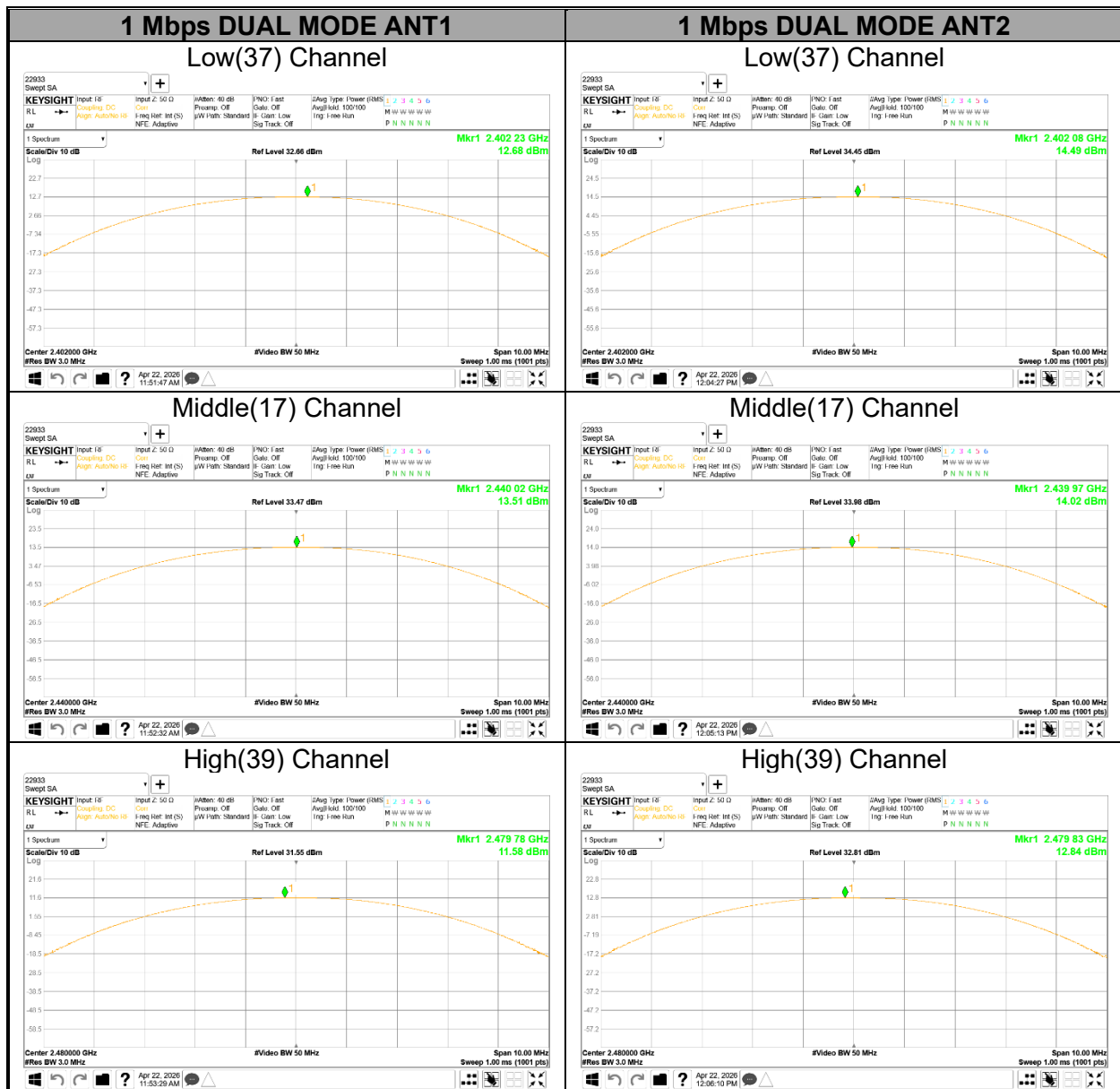
Mode	Antenna	Channel	Frequency [MHz]	Peak Output Power [dBm]	Limit [dBm]	Margin [dB]
1 Mbps (37 pkt)	DUAL ANT1	37	2 402	12.68	30.00	
		17	2 440	13.51		
		39	2 480	11.58		
	DUAL ANT2	37	2 402	14.49		
		17	2 440	14.02		
		39	2 480	12.84		
	DUAL ANT1+2	37	2 402	16.69		-13.31
		17	2 440	16.78		-13.22
		39	2 480	15.27		-14.73
2 Mbps (255 pkt)	DUAL ANT1	0	2 404	12.67	30.00	
		17	2 440	13.44		
		36	2 478	11.68		
	DUAL ANT2	0	2 404	14.74		
		17	2 440	13.98		
		36	2 478	13.32		
	DUAL ANT1+2	0	2 404	16.84		-13.16
		17	2 440	16.73		-13.27
		36	2 478	15.59		-14.41
Worst				16.84		-13.16

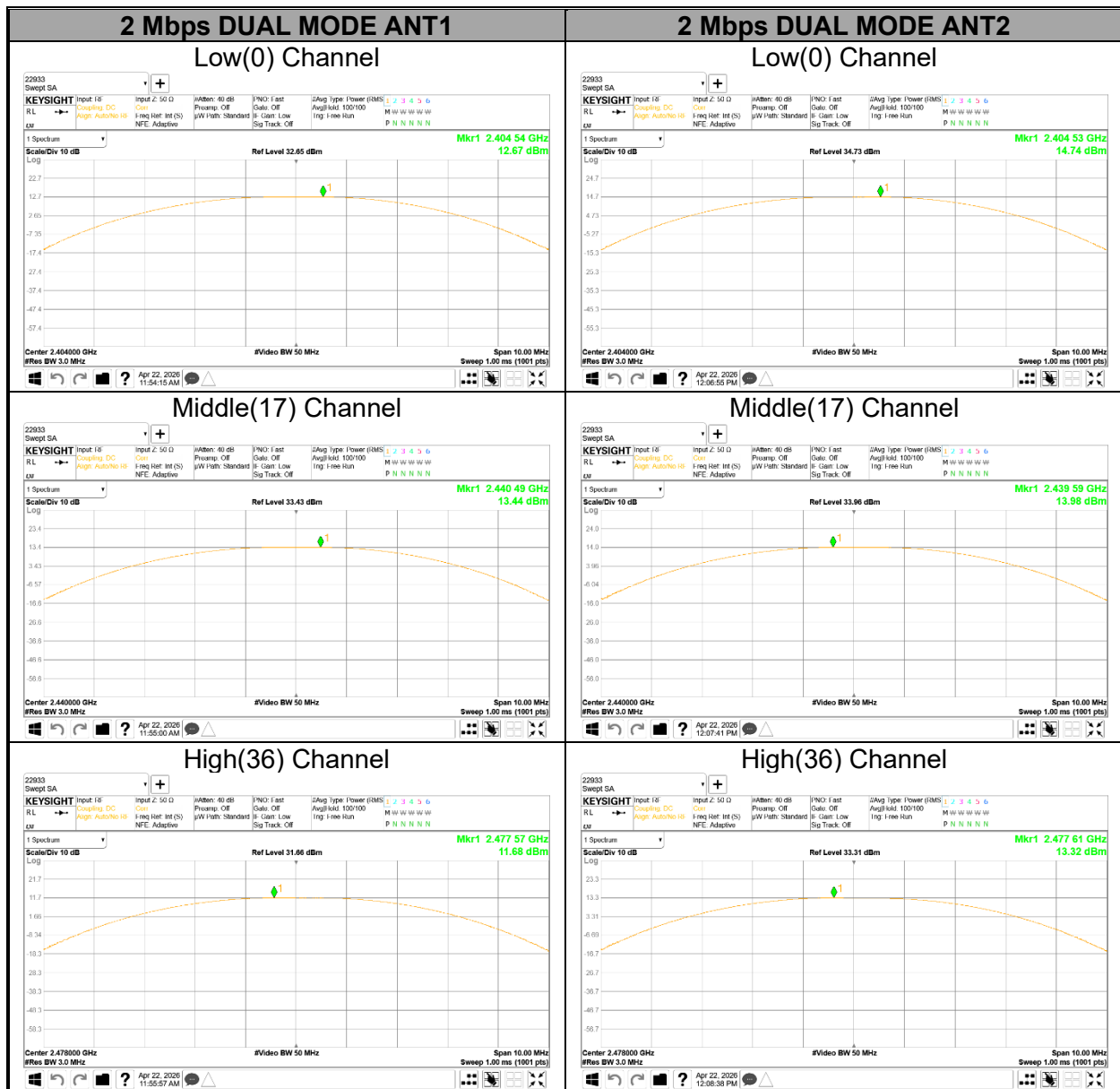
9.3.3. PEAK POWER PLOTS











9.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements perform using a wideband RF frame average power sensor.
The cable assembly insertion loss and duty cycle correction factor were entered as an offset in the power meter to allow for direct reading of power.

RESULTS

9.4.1. DIVERSITY MODE TEST DATA

Mode	Antenna	Channel	Frequency [MHz]	Average Output Power [dBm]	Average Output Power [mW]
1 Mbps (37 pkt)	ANT1	37	2 402	19.203	83.234
		17	2 440	18.725	74.559
		39	2 480	19.090	81.096
	ANT2	37	2 402	18.468	70.275
		17	2 440	18.647	73.232
		39	2 480	18.363	68.596
2 Mbps (255 pkt)	ANT1	0	2 404	19.047	80.297
		17	2 440	18.430	69.663
		36	2 478	19.052	80.390
	ANT2	0	2 404	18.309	67.749
		17	2 440	18.392	69.056
		36	2 478	18.476	70.404
CS SYNC 1M	ANT1	0	2 404	19.742	94.232
		17	2 440	19.344	85.981
		36	2 478	19.941	98.651
	ANT2	0	2 404	18.706	74.234
		17	2 440	19.050	80.353
		36	2 478	19.796	95.411

9.4.2. DUAL MODE TEST DATA

Mode	Antenna	Channel	Frequency [MHz]	Average Output Power [dBm]	Average Output Power [mW]
1 Mbps (37 pkt)	DUAL ANT1	37	2 402	12.506	
		17	2 440	13.334	
		39	2 480	11.379	
	DUAL ANT2	37	2 402	14.300	
		17	2 440	13.846	
		39	2 480	12.619	
	DUAL ANT1+2	37	2 402	16.505	44.723
		17	2 440	16.608	45.791
		39	2 480	15.053	32.014
2 Mbps (255 pkt)	DUAL ANT1	0	2 404	12.341	
		17	2 440	13.133	
		36	2 478	11.317	
	DUAL ANT2	0	2 404	14.381	
		17	2 440	13.659	
		36	2 478	12.902	
	DUAL ANT1+2	0	2 404	16.490	44.566
		17	2 440	16.414	43.795
		36	2 478	15.192	33.050

9.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

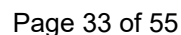
TEST PROCEDURE

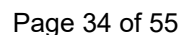
ANSI C63.10-2020, Section 11.10.2 Method PKPSD (peak PSD)

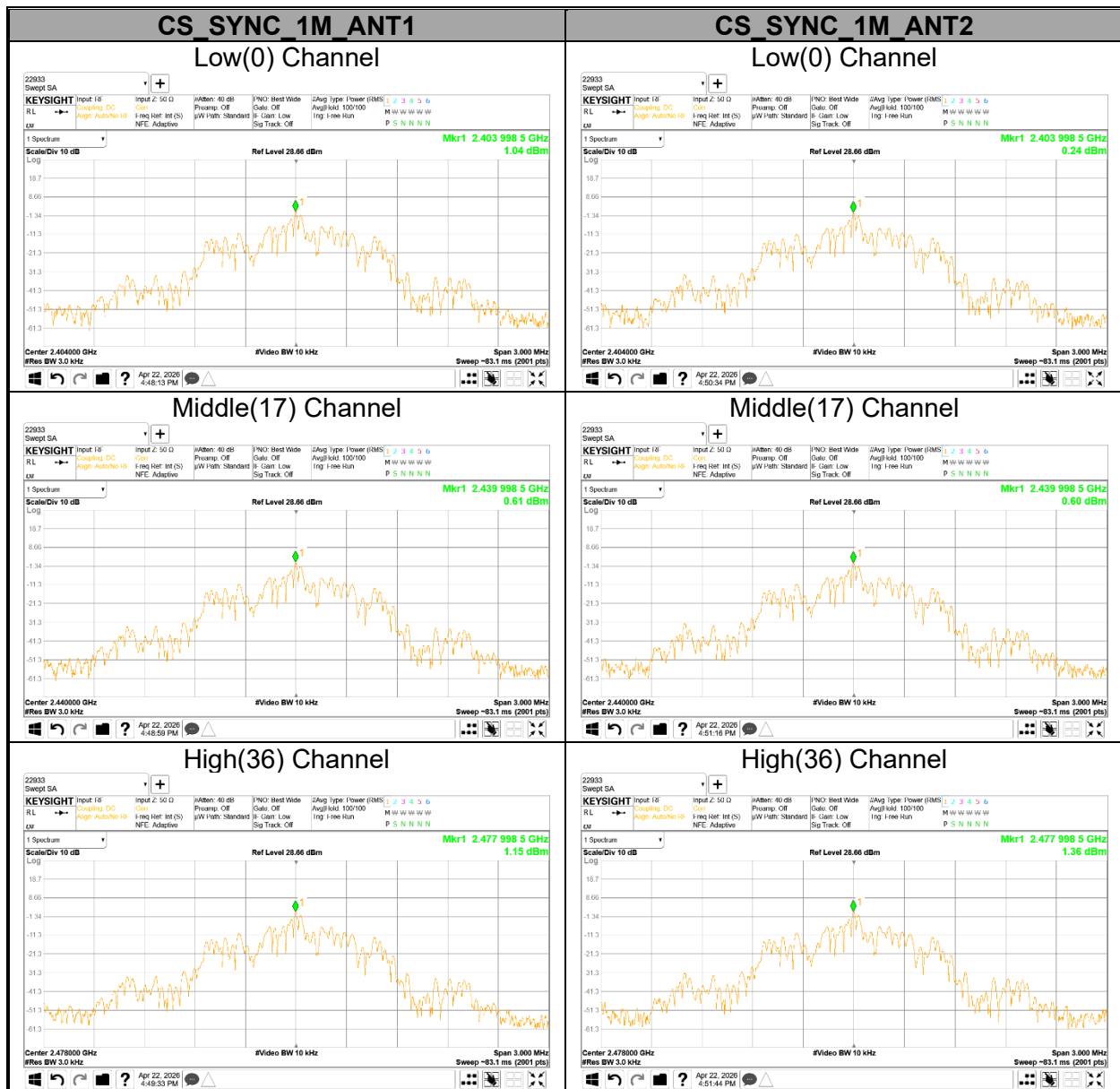
RESULTS

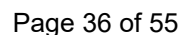
9.5.1. TEST DATA

Mode	Antenna	Channel	Frequency [MHz]	PSD [dBm/3kHz]	Limit [dBm/3kHz]	Margin [dB]
1 Mbps (37pkt)	ANT1	37	2 402	4.31	8.00	v
		17	2 440	3.56		-4.44
		39	2 480	3.93		-4.07
	ANT2	37	2 402	3.37		-4.63
		17	2 440	3.64		-4.36
		39	2 480	3.57		-4.43
125 kbps (37pkt)	ANT1	37	2 402	1.89		-6.11
		17	2 440	2.46		-5.54
		39	2 480	0.53		-7.47
	ANT2	37	2 402	3.61		-4.39
		17	2 440	3.50		-4.50
		39	2 480	2.32		-5.68
500 kbps (37pkt)	ANT1	37	2 402	1.70		-6.30
		17	2 440	2.29		-5.71
		39	2 480	0.31		-7.69
	ANT2	37	2 402	3.39		-4.61
		17	2 440	3.33		-4.67
		39	2 480	2.18		-5.82
CS_SYNC 1M	ANT1	0	2 404	1.04		-6.96
		17	2 440	0.61		-7.39
		36	2 478	1.15		-6.85
	ANT2	0	2 404	0.24		-7.76
		17	2 440	0.60		-7.40
		36	2 478	1.36		-6.64
2 Mbps (255 pkt)	ANT1	0	2 404	0.07		-7.93
		17	2 440	-0.49		-8.49
		36	2 478	-0.13		-8.13
	ANT2	0	2 404	-0.52		-8.52
		17	2 440	-0.47		-8.47
		36	2 478	-0.58		-8.58
Worst				4.31	-3.69	









9.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

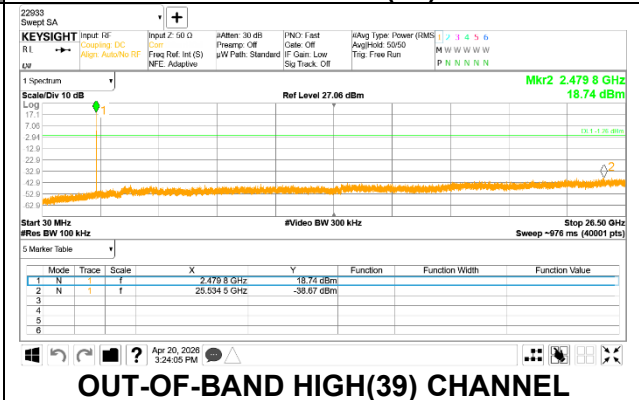
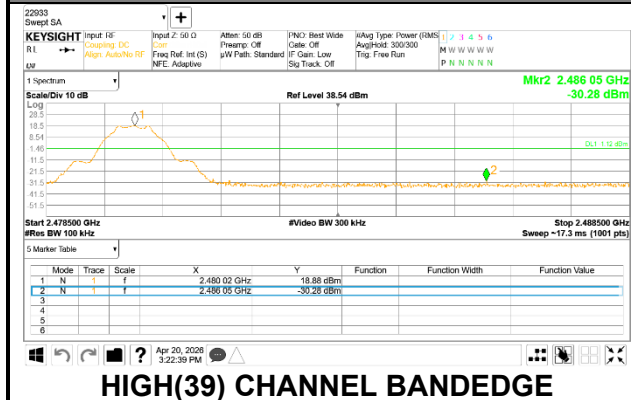
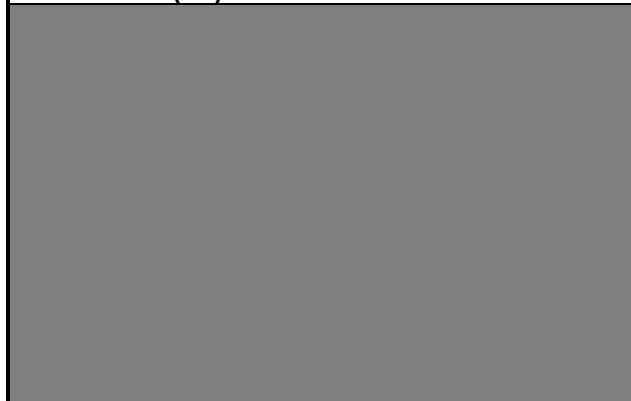
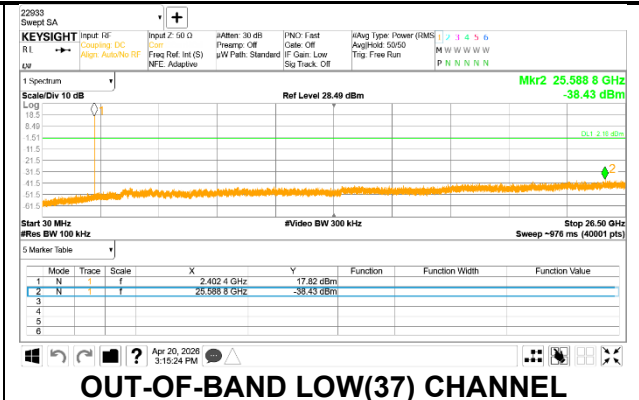
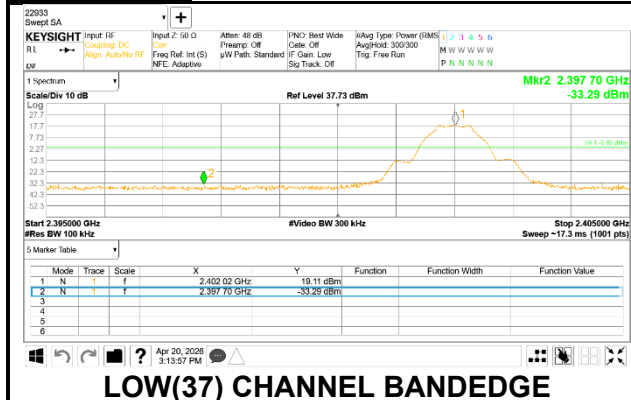
FCC §15.247 (d)

Output power was measured based on the use of a peak measurement.
Therefore, spurious emissions are required to be 20 dBc.

RESULTS

9.6.1. Test plot

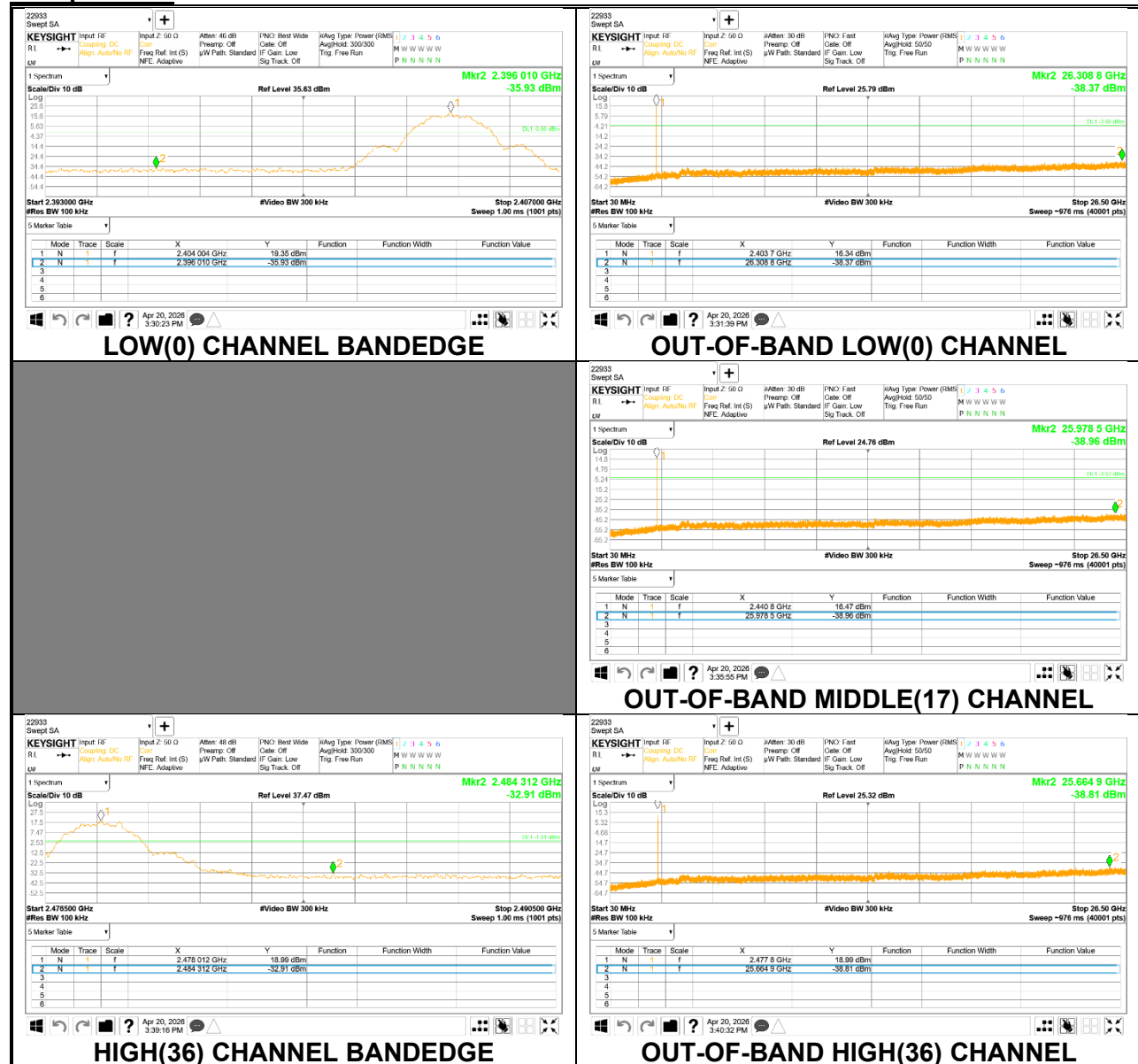
1 Mbps ANT1



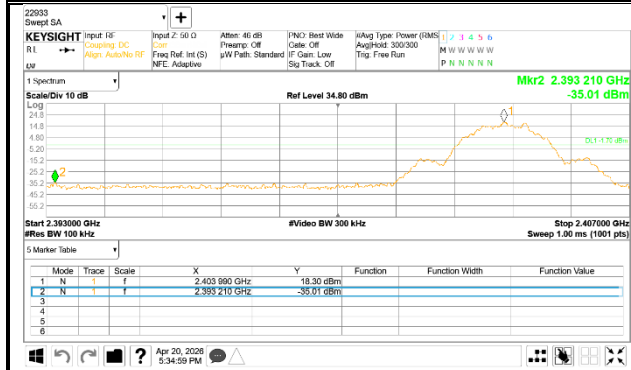
1 Mbps ANT2



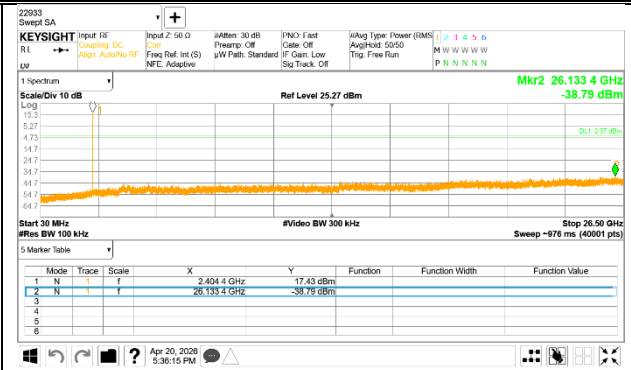
2 Mbps ANT1



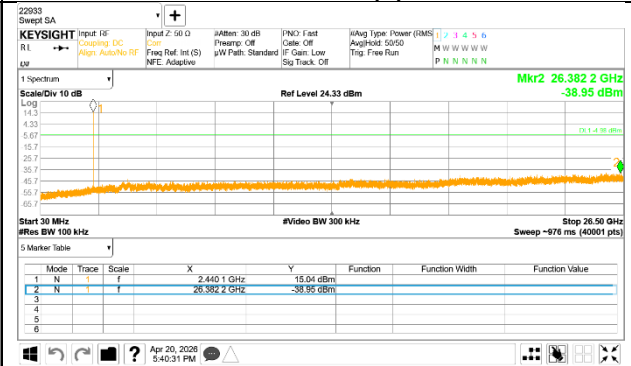
2 Mbps ANT2



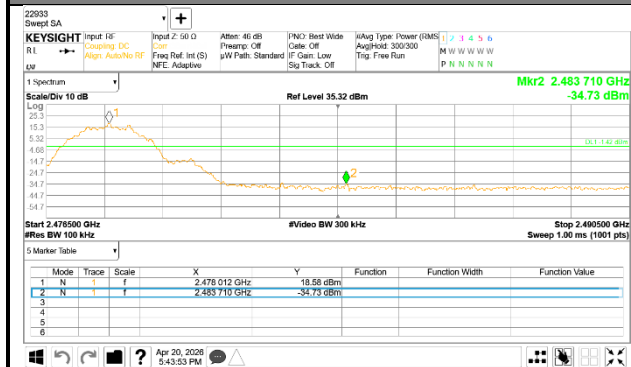
LOW(0) CHANNEL BANDEDGE



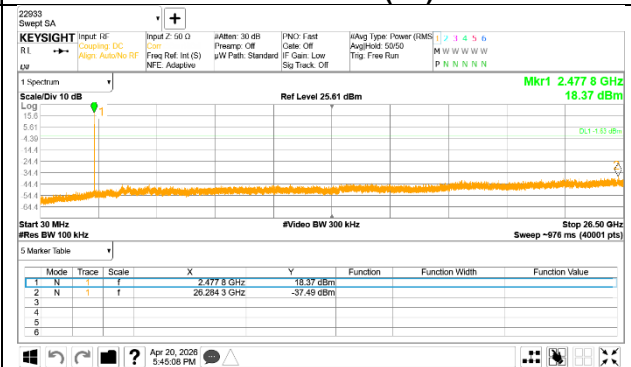
OUT-OF-BAND LOW(0) CHANNEL



OUT-OF-BAND MIDDLE(17) CHANNEL



HIGH(36) CHANNEL BANDEDGE



OUT-OF-BAND HIGH(36) CHANNEL

10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (μV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. (Restricted band-edge, Final detection of spurious harmonic emissions)

Duty cycle factor = $10 \log (1/x)$. For this sample:

Mode	Duty cycle x [Linear]	Duty Cycle Correction Factor [dB]	Antenna
1 Mbps [37pkt]	0.5152	2.88	Antenna 1, 2 and Dual mode
2 Mbps [255pkt]	0.7642	1.17	Antenna 1, 2 and Dual mode

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

The spectrum from 1 GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Note : Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).

Per FCC part 15.31(o), test results were not reported.

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open are test site.

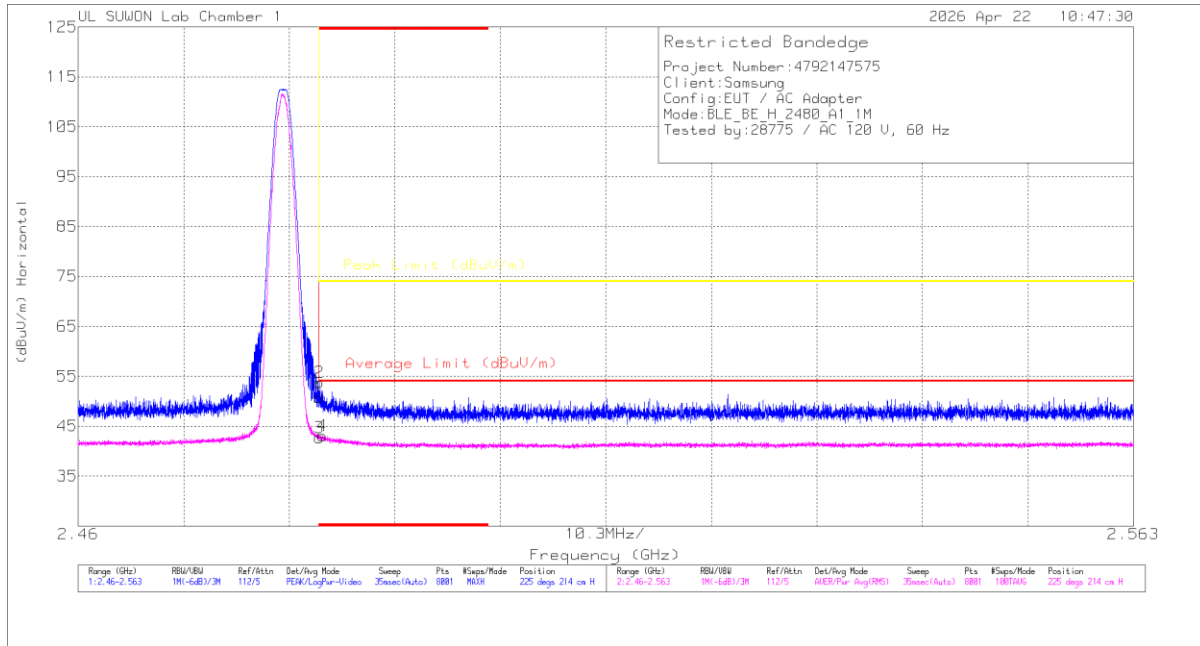
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. TX ABOVE 1 GHz BLUETOOTH LE 1 Mbps

BANDEDGE (WORST CASE: 2480 MHz, ANT2)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	10dB_Path Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (m)	Height (cm)	Polarity
1	* 2.48351	44.91	Pk	32	-26.2	0	50.71	-	-	74	-23.29	225	214	H
2	* 2.48352	47.93	Pk	32	-26.2	0	53.73	-	-	74	-20.27	225	214	H
3	* 2.48351	34.05	RMS	32	-26.2	2.88	42.73	54	-11.27	-	-	225	214	H
4	* 2.48386	34.42	RMS	32	-26.2	2.88	43.1	54	-10.9	-	-	225	214	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE TEST DATA

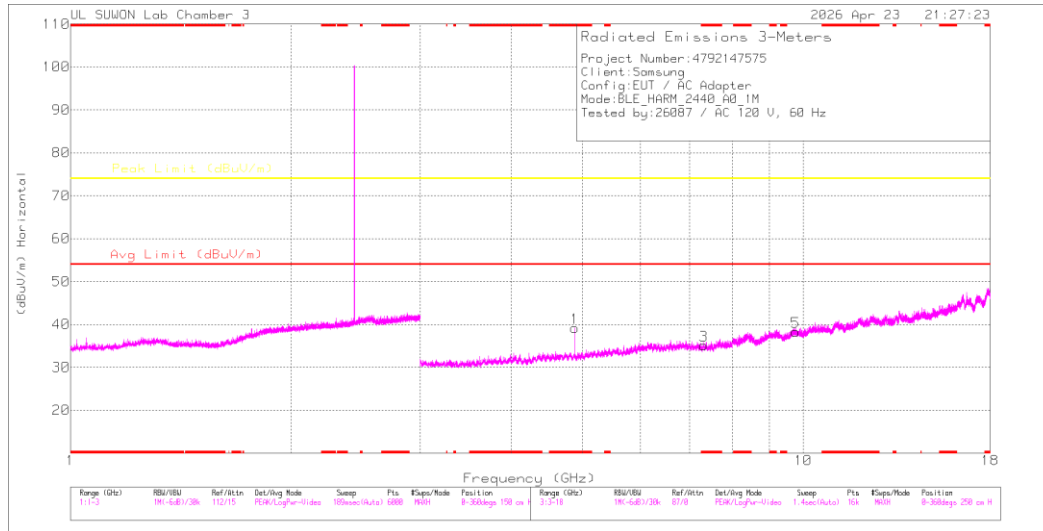
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT1	* 2.39	43.23	Pk	31.70	-26.20	0.00	48.73	-	-	74.00	-25.27	313	212	H
		* 2.38305	45.18	Pk	31.70	-26.20	0.00	50.68	-	-	74.00	-23.32	313	212	H
		* 2.39	32.33	RMS	31.70	-26.20	2.88	40.71	54.00	-13.29	-	-	313	212	H
		* 2.38115	33.19	RMS	31.70	-26.20	2.88	41.57	54.00	-12.43	-	-	313	212	H
		* 2.39	42.87	Pk	31.70	-26.20	0.00	48.37	-	-	74.00	-25.63	217	250	V
		* 2.36128	45.30	Pk	31.70	-26.20	0.00	50.80	-	-	74.00	-23.20	217	250	V
		* 2.39	32.83	RMS	31.70	-26.20	2.88	41.21	54.00	-12.79	-	-	217	250	V
		* 2.37191	33.19	RMS	31.70	-26.10	2.88	41.67	54.00	-12.33	-	-	217	250	V
2480	ANT1	* 2.48351	44.02	Pk	32.00	-26.20	0.00	49.82	-	-	74.00	-24.18	244	256	H
		* 2.48502	46.76	Pk	32.00	-26.10	0.00	52.66	-	-	74.00	-21.34	244	256	H
		* 2.48351	33.69	RMS	32.00	-26.20	2.88	42.37	54.00	-11.63	-	-	244	256	H
		* 2.48354	34.22	RMS	32.00	-26.20	2.88	42.90	54.00	-11.10	-	-	244	256	H
		* 2.48351	47.22	Pk	32.00	-26.20	0.00	53.02	-	-	74.00	-20.98	231	262	V
		* 2.4836	47.28	Pk	32.00	-26.20	0.00	53.08	-	-	74.00	-20.92	231	262	V
		* 2.48351	33.44	RMS	32.00	-26.20	2.88	42.12	54.00	-11.88	-	-	231	262	V
		* 2.48374	33.84	RMS	32.00	-26.20	2.88	42.52	54.00	-11.48	-	-	231	262	V
2402	ANT2	* 2.39	42.69	Pk	31.70	-26.20	0.00	48.19	-	-	74.00	-25.81	320	219	H
		* 2.36112	45.31	Pk	31.70	-26.20	0.00	50.81	-	-	74.00	-23.19	320	219	H
		* 2.39	32.83	RMS	31.70	-26.20	2.88	41.21	54.00	-12.79	-	-	320	219	H
		* 2.38636	33.29	RMS	31.70	-26.10	2.88	41.77	54.00	-12.23	-	-	320	219	H
		* 2.39	41.25	Pk	31.70	-26.20	0.00	46.75	-	-	74.00	-27.25	241	397	V
		* 2.34701	45.24	Pk	31.60	-26.20	0.00	50.64	-	-	74.00	-23.36	241	397	V
		* 2.39	32.85	RMS	31.70	-26.20	2.88	41.23	54.00	-12.77	-	-	241	397	V
		* 2.38729	33.21	RMS	31.70	-26.20	2.88	41.59	54.00	-12.41	-	-	241	397	V
2480	ANT2	* 2.48351	44.91	Pk	32.00	-26.20	0.00	50.71	-	-	74.00	-23.29	225	214	H
		* 2.48352	47.93	Pk	32.00	-26.20	0.00	53.73	-	-	74.00	-20.27	225	214	H
		* 2.48351	34.05	RMS	32.00	-26.20	2.88	42.73	54.00	-11.27	-	-	225	214	H
		* 2.48386	34.42	RMS	32.00	-26.20	2.88	43.10	54.00	-10.90	-	-	225	214	H
		* 2.48351	44.48	Pk	32.00	-26.20	0.00	50.28	-	-	74.00	-23.72	248	371	V
		* 2.48387	45.46	Pk	32.00	-26.20	0.00	51.26	-	-	74.00	-22.74	248	371	V
		* 2.48351	34.12	RMS	32.00	-26.20	2.88	42.80	54.00	-11.20	-	-	248	371	V
		* 2.48356	34.27	RMS	32.00	-26.20	2.88	42.95	54.00	-11.05	-	-	248	371	V
2402	DUAL	* 2.39	41.28	Pk	31.70	-26.20	0.00	46.78	-	-	74.00	-27.22	323	241	H
		* 2.37366	45.52	Pk	31.70	-26.20	0.00	51.02	-	-	74.00	-22.98	323	241	H
		* 2.39	32.58	RMS	31.70	-26.20	2.88	40.96	54.00	-13.04	-	-	323	241	H
		* 2.38085	33.17	RMS	31.70	-26.20	2.88	41.55	54.00	-12.45	-	-	323	241	H
		* 2.39	42.65	Pk	31.70	-26.20	0.00	48.15	-	-	74.00	-25.85	264	315	V
		* 2.35806	45.70	Pk	31.70	-26.30	0.00	51.10	-	-	74.00	-22.90	264	315	V
		* 2.39	32.57	RMS	31.70	-26.20	2.88	40.95	54.00	-13.05	-	-	264	315	V
		* 2.34725	33.40	RMS	31.60	-26.20	2.88	41.68	54.00	-12.32	-	-	264	315	V
2480	DUAL	* 2.48351	42.85	Pk	32.00	-26.20	0.00	48.65	-	-	74.00	-25.35	321	285	H
		* 2.48354	48.09	Pk	32.00	-26.20	0.00	53.89	-	-	74.00	-20.11	321	285	H
		* 2.48351	33.65	RMS	32.00	-26.20	2.88	42.33	54.00	-11.67	-	-	321	285	H
		2.560	33.21	RMS	32.10	-25.90	2.88	42.29	54.00	-11.71	-	-	321	285	H
		* 2.48351	42.06	Pk	32.00	-26.20	0.00	47.86	-	-	74.00	-26.14	252	326	V
		* 2.48359	47.03	Pk	32.00	-26.20	0.00	52.83	-	-	74.00	-21.17	252	326	V
		* 2.48351	33.40	RMS	32.00	-26.20	2.88	42.08	54.00	-11.92	-	-	252	326	V
		2.562	33.08	RMS	32.10	-25.90	2.88	42.16	54.00	-11.84	-	-	252	326	V

Note1. Pk - Peak detector, RMS - RMS detector

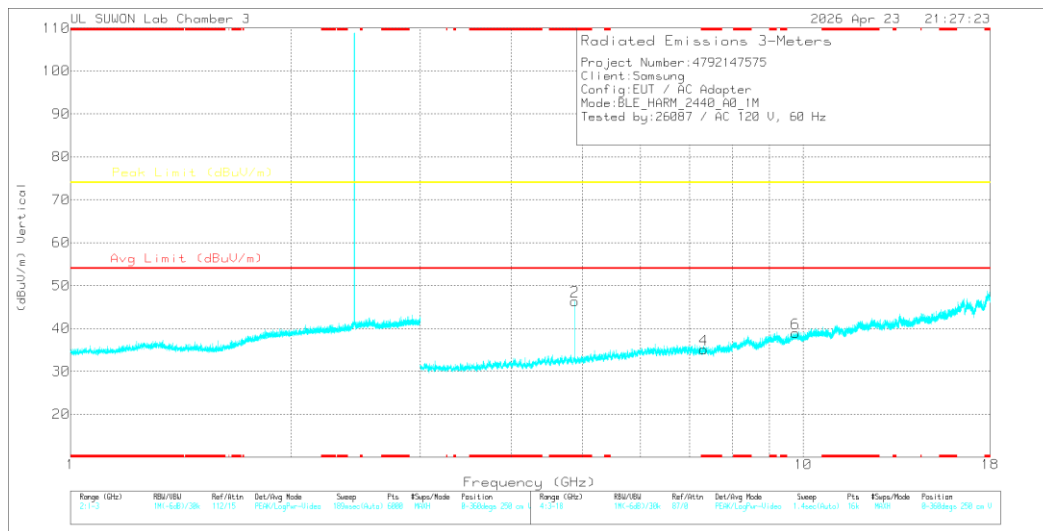
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 2440 MHz, ANT1)

2440 MHz RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	3GHz_HP_Pat h Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87971	43.31	PK2	34.2	-30.8	0	46.71	-	-	74	-27.29	0	150	H
* 4.87973	33.71	MAV1	34.2	-30.8	2.88	39.99	54	-14.01	-	-	0	150	H
* 4.88032	47.58	PK2	34.2	-30.8	0	50.98	-	-	74	-23.02	163	108	V
* 4.87988	39.66	MAV1	34.2	-30.8	2.88	45.94	54	-8.06	-	-	163	108	V
* 7.32279	34.37	PK2	35.8	-25.2	0	44.97	-	-	74	-29.03	0	100	H
* 7.31604	34.58	PK2	35.8	-25.3	0	45.08	-	-	74	-28.92	0	100	V
9.7569	32.18	PK2	36.9	-21.3	0	47.78	-	-	74	-26.22	0	100	H
9.76382	32.16	PK2	36.9	-21.3	0	47.76	-	-	74	-26.24	0	100	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT 1	* 4.80368	42.50	PK2	34.30	-30.10	0.00	46.70	-	-	74.00	-27.30	303	282	H
		* 4.80402	32.32	MAV1	34.30	-30.10	2.88	39.40	54.00	-14.60	-	-	303	282	H
		* 4.80338	45.84	PK2	34.30	-30.10	0.00	50.04	-	-	74.00	-23.96	157	100	V
		* 4.80425	37.46	MAV1	34.30	-30.10	2.88	44.54	54.00	-9.46	-	-	157	100	V
		7.207	34.66	PK2	35.80	-25.70	0.00	44.76	-	-	74.00	-29.24	0	100	H
		7.204	34.80	PK2	35.80	-25.80	0.00	44.80	-	-	74.00	-29.20	0	100	V
		9.607	32.27	PK2	36.70	-21.70	0.00	47.27	-	-	74.00	-26.73	0	100	H
		9.607	32.61	PK2	36.70	-21.70	0.00	47.61	-	-	74.00	-26.39	0	100	V
		* 4.87971	43.31	PK2	34.20	-30.80	0.00	46.71	-	-	74.00	-27.29	0	150	H
		* 4.87973	33.71	MAV1	34.20	-30.80	2.88	39.99	54.00	-14.01	-	-	0	150	H
2440	ANT 1	* 4.88032	47.58	PK2	34.20	-30.80	0.00	50.98	-	-	74.00	-23.02	163	108	V
		* 4.87988	39.66	MAV1	34.20	-30.80	2.88	45.94	54.00	-8.06	-	-	163	108	V
		* 7.32279	34.37	PK2	35.80	-25.20	0.00	44.97	-	-	74.00	-29.03	0	100	H
		* 7.31604	34.58	PK2	35.80	-25.30	0.00	45.08	-	-	74.00	-28.92	0	100	V
		9.757	32.18	PK2	36.90	-21.30	0.00	47.78	-	-	74.00	-26.22	0	100	H
		9.764	32.16	PK2	36.90	-21.30	0.00	47.76	-	-	74.00	-26.24	0	100	V
		* 4.95962	43.85	PK2	34.30	-30.40	0.00	47.75	-	-	74.00	-26.25	337	118	H
		* 4.95963	34.24	MAV1	34.30	-30.40	2.88	41.02	54.00	-12.98	-	-	337	118	H
		* 4.95957	46.40	PK2	34.30	-30.40	0.00	50.30	-	-	74.00	-23.70	178	125	V
		* 4.9596	38.68	MAV1	34.30	-30.40	2.88	45.46	54.00	-8.54	-	-	178	125	V
2480	ANT 1	* 7.31542	34.76	PK2	35.80	-25.30	0.00	45.26	-	-	74.00	-28.74	0	100	H
		* 7.32254	34.78	PK2	35.80	-25.20	0.00	45.38	-	-	74.00	-28.62	0	100	V
		9.759	32.10	PK2	36.90	-21.30	0.00	47.70	-	-	74.00	-26.30	0	100	H
		9.755	32.19	PK2	36.90	-21.30	0.00	47.79	-	-	74.00	-26.21	0	100	V
		* 4.80393	39.33	PK2	34.30	-30.10	0.00	43.53	-	-	74.00	-30.47	119	109	H
		* 4.80402	27.47	MAV1	34.30	-30.10	2.88	34.55	54.00	-19.45	-	-	119	109	H
		* 4.80449	38.59	PK2	34.30	-30.10	0.00	42.79	-	-	74.00	-31.21	156	255	V
		* 4.80417	27.80	MAV1	34.30	-30.10	2.88	34.88	54.00	-19.12	-	-	156	255	V
		7.206	34.61	PK2	35.80	-25.80	0.00	44.61	-	-	74.00	-29.39	0	100	H
		7.203	35.81	PK2	35.80	-25.80	0.00	45.81	-	-	74.00	-28.19	0	100	V
2402	ANT 2	9.610	32.43	PK2	36.70	-21.70	0.00	47.43	-	-	74.00	-26.57	0	100	H
		9.606	32.41	PK2	36.70	-21.70	0.00	47.41	-	-	74.00	-26.59	0	100	V
		* 4.8804	39.12	PK2	34.20	-30.80	0.00	42.52	-	-	74.00	-31.48	136	128	H
		* 4.87956	27.81	MAV1	34.20	-30.80	2.88	34.09	54.00	-19.91	-	-	136	128	H
		* 4.88003	39.38	PK2	34.20	-30.80	0.00	42.78	-	-	74.00	-31.22	181	263	V
		* 4.88066	28.15	MAV1	34.20	-30.80	2.88	34.43	54.00	-19.57	-	-	181	263	V
		* 7.32484	35.10	PK2	35.80	-25.30	0.00	45.60	-	-	74.00	-28.40	0	100	H
		* 7.31748	34.46	PK2	35.80	-25.30	0.00	44.96	-	-	74.00	-29.04	0	100	V
		9.758	32.08	PK2	36.90	-21.30	0.00	47.68	-	-	74.00	-26.32	0	100	H
		9.756	32.23	PK2	36.90	-21.30	0.00	47.83	-	-	74.00	-26.17	0	100	V
2480	ANT 2	* 4.9602	39.06	PK2	34.30	-30.30	0.00	43.06	-	-	74.00	-30.94	127	196	H
		* 4.96081	27.69	MAV1	34.30	-30.30	2.88	34.57	54.00	-19.43	-	-	127	196	H
		* 4.95971	38.64	PK2	34.30	-30.40	0.00	42.54	-	-	74.00	-31.46	176	121	V
		* 4.95957	27.37	MAV1	34.30	-30.40	2.88	34.15	54.00	-19.65	-	-	176	121	V
		* 7.44169	34.08	PK2	35.70	-25.00	0.00	44.78	-	-	74.00	-29.22	0	100	H
		* 7.43869	35.40	PK2	35.70	-24.90	0.00	46.20	-	-	74.00	-27.80	0	100	V
		9.919	32.41	PK2	37.10	-21.50	0.00	48.01	-	-	74.00	-25.99	0	100	H
		9.921	31.92	PK2	37.10	-21.40	0.00	47.62	-	-	74.00	-26.38	0	100	V
		* 4.80216	38.86	PK2	34.30	-30.20	0.00	42.96	-	-	74.00	-31.04	28	128	H
		* 4.80398	27.81	MAV1	34.30	-30.10	2.88	34.89	54.00	-19.11	-	-	28	128	H
2402	DUAL	* 4.80763	38.62	PK2	34.30	-30.10	0.00	42.82	-	-	74.00	-31.18	0	100	V
		7.206	39.11	PK2	35.80	-25.80	0.00	49.11	-	-	74.00	-24.89	326	103	H
		7.207	39.64	PK2	35.80	-25.70	0.00	49.74	-	-	74.00	-24.26	179	100	V
		9.611	32.33	PK2	36.70	-21.70	0.00	47.33	-	-	74.00	-26.67	0	100	H
		9.608	32.27	PK2	36.70	-21.70	0.00	47.27	-	-	74.00	-26.73	0	100	V
		* 4.88075	26.91	PK2	34.20	-30.80	0.00	30.31	-	-	74.00	-43.69	25	135	H
		* 4.88017	28.14	MAV1	34.20	-30.80	2.88	34.42	54.00	-19.58	-	-	25	135	H
		* 4.8801	39.41	PK2	34.20	-30.80	0.00	42.81	-	-	74.00	-31.19	0	100	V
		* 7.31995	37.92	PK2	35.80	-25.30	0.00	48.42	-	-	74.00	-25.58	324	100	H
		* 7.31934	27.68	MAV1	35.80	-25.30	2.88	41.06	54.00	-12.94	-	-	324	100	H
2440	DUAL	* 7.31937	39.71	PK2	35.80	-25.30	0.00	50.21	-	-	74.00	-23.79	179	100	V
		* 7.31931	29.86	MAV1	35.80	-25.30	2.88	43.24	54.00	-10.76	-	-	179	100	V
		9.758	32.11	PK2	36.90	-21.30	0.00	47.71	-	-	74.00	-26.28	0	100	H
		9.761	31.69	PK2	36.90	-21.30	0.00	47.29	-	-	74.00	-26.71	0	100	V
		* 4.96001	39.44	PK2	34.30	-30.30	0.00	43.44	-	-	74.00	-30.56	18	116	H
		* 4.9598	28.32	MAV1	34.30	-30.40	2.88	35.10	54.00	-18.90	-	-	18	116	H
		* 4.96044	39.60	PK2	34.30	-30.30	0.00	43.60	-	-	74.00	-30.40	240	381	V
		* 4.95969	27.95	MAV1	34.30	-30.40	2.88	34.73	54.00	-19.27	-	-	240	381	V
		* 7.44075	36.98	PK2	35.70	-25.00	0.00	47.68	-	-	74.00	-26.32	321	103	H
		* 7.43925	25.65	MAV1	35.70	-25.00	2.88	39.23	54.00	-14.77	-	-	321	103	H
2480	DUAL	* 7.44053	38.91	PK2	35.70	-25.00	0.00	49.61	-	-	74.00	-24.39	179	101	V
		* 7.43921	29.96	MAV1	35.70	-25.00	2.88	43.54	54.00	-10.46	-	-	179	101	V
		9.922	31.87	PK2	37.10	-21.40	0.00	47.57	-	-	74.00	-26.43	0	100	H
		9.917	32.38	PK2	37.10	-21.40	0.00	48.08	-	-	74.00	-25.92	0	100	V

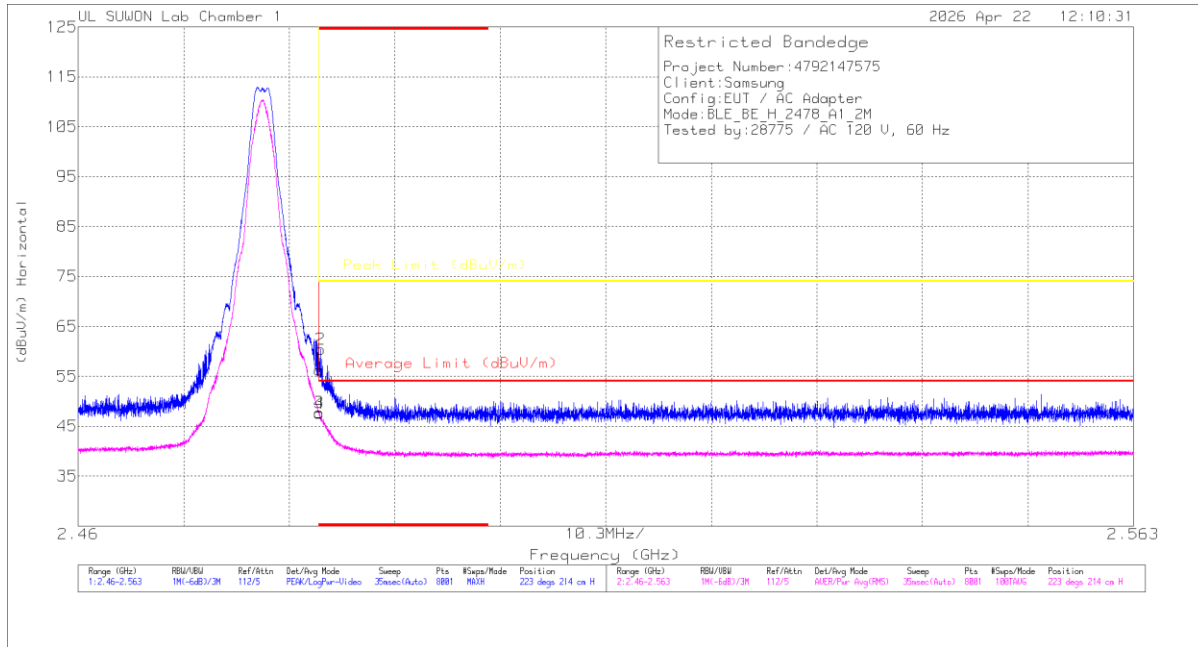
Note1. PK2 - KDB558074 Method: Maximum Peak / MAV1 - KDB558074 Option 1 Maximum RMS Average

Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

10.2.2. TX ABOVE 1 GHz BLUETOOTH LE 2 Mbps

BANDEDGE (WORST CASE: 2478 MHz, ANT2)

HORIZONTAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dBm)	10dB_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	50.46	Pk	32	-26.2	0	56.26	-	-	74	-17.74	223	214	H
2	* 2.48366	54.59	Pk	32	-26.2	0	60.39	-	-	74	-13.61	223	214	H
3	* 2.48351	40.75	RMS	32	-26.2	1.17	47.72	54	-6.28	-	-	223	214	H
4	* 2.48354	40.58	RMS	32	-26.2	1.17	47.55	54	-6.45	-	-	223	214	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE TEST DATA

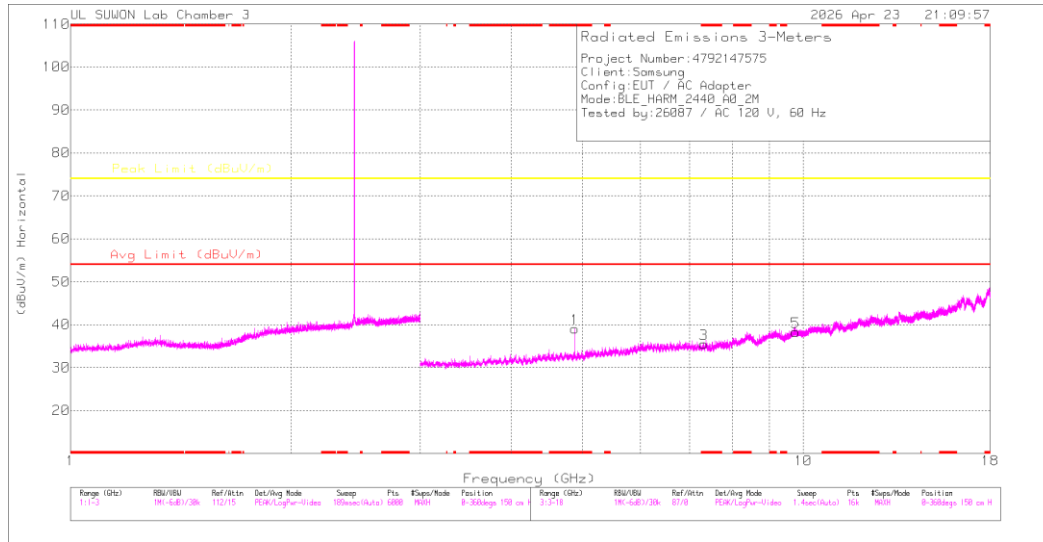
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2404	ANT 1	* 2.39	42.72	Pk	31.70	-26.20	0.00	48.22	-	-	74.00	-25.78	311	209	H
		* 2.36729	45.50	Pk	31.70	-26.20	0.00	51.00	-	-	74.00	-23.00	311	209	H
		* 2.39	32.89	RMS	31.70	-26.20	1.17	39.56	54.00	-14.44	-	-	311	209	H
		* 2.38958	33.34	RMS	31.70	-26.20	1.17	40.01	54.00	-13.99	-	-	311	209	H
		* 2.39	44.18	Pk	31.70	-26.20	0.00	49.68	-	-	74.00	-24.32	216	251	V
		* 2.36318	45.32	Pk	31.70	-26.20	0.00	50.82	-	-	74.00	-23.18	216	251	V
		* 2.39	32.61	RMS	31.70	-26.20	1.17	39.28	54.00	-14.72	-	-	216	251	V
		* 2.38614	33.20	RMS	31.70	-26.10	1.17	39.97	54.00	-14.03	-	-	216	251	V
2478	ANT 1	* 2.48351	45.18	Pk	32.00	-26.20	0.00	50.98	-	-	74.00	-23.02	235	359	H
		* 2.48448	46.14	Pk	32.00	-26.20	0.00	51.94	-	-	74.00	-22.06	235	359	H
		* 2.48351	33.95	RMS	32.00	-26.20	1.17	40.92	54.00	-13.08	-	-	235	359	H
		* 2.48368	34.19	RMS	32.00	-26.20	1.17	41.16	54.00	-12.84	-	-	235	359	H
		* 2.48351	43.54	Pk	32.00	-26.20	0.00	49.34	-	-	74.00	-24.66	231	263	V
		* 2.562	45.28	Pk	32.10	-25.90	0.00	51.48	-	-	74.00	-22.52	231	263	V
		* 2.48351	33.50	RMS	32.00	-26.20	1.17	40.47	54.00	-13.53	-	-	231	263	V
		* 2.48355	33.88	RMS	32.00	-26.20	1.17	40.85	54.00	-13.15	-	-	231	263	V
2404	ANT 2	* 2.39	42.60	Pk	31.70	-26.20	0.00	48.10	-	-	74.00	-25.90	311	150	H
		* 2.36752	46.32	Pk	31.60	-26.20	0.00	51.72	-	-	74.00	-22.28	311	150	H
		* 2.39	32.60	RMS	31.70	-26.20	1.17	39.27	54.00	-14.73	-	-	311	150	H
		* 2.37423	33.14	RMS	31.70	-26.20	1.17	39.81	54.00	-14.19	-	-	311	150	H
		* 2.39	40.25	Pk	31.70	-26.20	0.00	45.75	-	-	74.00	-28.25	226	389	V
		* 2.3828	44.75	Pk	31.70	-26.20	0.00	50.25	-	-	74.00	-23.75	226	389	V
		* 2.39	32.60	RMS	31.70	-26.20	1.17	39.27	54.00	-14.73	-	-	226	389	V
		* 2.38924	33.14	RMS	31.70	-26.20	1.17	39.81	54.00	-14.19	-	-	226	389	V
2478	ANT 2	* 2.48351	50.46	Pk	32.00	-26.20	0.00	56.26	-	-	74.00	-17.74	223	214	H
		* 2.48355	54.59	Pk	32.00	-26.20	0.00	60.39	-	-	74.00	-13.61	223	214	H
		* 2.48351	40.75	RMS	32.00	-26.20	1.17	47.72	54.00	-6.28	-	-	223	214	H
		* 2.48354	40.58	RMS	32.00	-26.20	1.17	47.55	54.00	-6.45	-	-	223	214	H
		* 2.48351	46.72	Pk	32.00	-26.20	0.00	52.52	-	-	74.00	-21.48	245	330	V
		* 2.484	46.65	Pk	32.00	-26.20	0.00	52.45	-	-	74.00	-21.55	245	330	V
		* 2.48351	35.74	RMS	32.00	-26.20	1.17	42.71	54.00	-11.29	-	-	245	330	V
		* 2.48356	35.71	RMS	32.00	-26.20	1.17	42.68	54.00	-11.32	-	-	245	330	V
2404	DUAL	* 2.39	42.06	Pk	31.70	-26.20	0.00	47.56	-	-	74.00	-26.44	328	149	H
		* 2.31841	45.62	Pk	31.60	-26.40	0.00	50.82	-	-	74.00	-23.18	328	149	H
		* 2.39	32.49	RMS	31.70	-26.20	1.17	39.16	54.00	-14.84	-	-	328	149	H
		* 2.36255	33.06	RMS	31.70	-26.20	1.17	39.73	54.00	-14.27	-	-	328	149	H
		* 2.39	42.10	Pk	31.70	-26.20	0.00	47.60	-	-	74.00	-26.40	277	307	V
		* 2.38657	45.28	Pk	31.70	-26.10	0.00	50.88	-	-	74.00	-23.12	277	307	V
		* 2.39	32.35	RMS	31.70	-26.20	1.17	39.02	54.00	-14.98	-	-	277	307	V
		* 2.37211	33.16	RMS	31.70	-26.10	1.17	39.93	54.00	-14.07	-	-	277	307	V
2478	DUAL	* 2.48351	42.23	Pk	32.00	-26.20	0.00	48.03	-	-	74.00	-25.97	323	286	H
		* 2.48373	45.29	Pk	32.00	-26.20	0.00	51.09	-	-	74.00	-22.91	323	286	H
		* 2.48351	33.01	RMS	32.00	-26.20	1.17	39.98	54.00	-14.02	-	-	323	286	H
		* 2.559	33.07	RMS	32.10	-26.00	1.17	40.34	54.00	-13.66	-	-	323	286	H
		* 2.48351	42.07	Pk	32.00	-26.20	0.00	47.87	-	-	74.00	-26.13	188	245	V
		* 2.515	45.33	Pk	32.00	-26.10	0.00	51.23	-	-	74.00	-22.77	188	245	V
		* 2.48351	32.91	RMS	32.00	-26.20	1.17	39.88	54.00	-14.12	-	-	188	245	V
		* 2.562	33.03	RMS	32.10	-25.90	1.17	40.40	54.00	-13.60	-	-	188	245	V

Note1. Pk - Peak detector, RMS - RMS detector

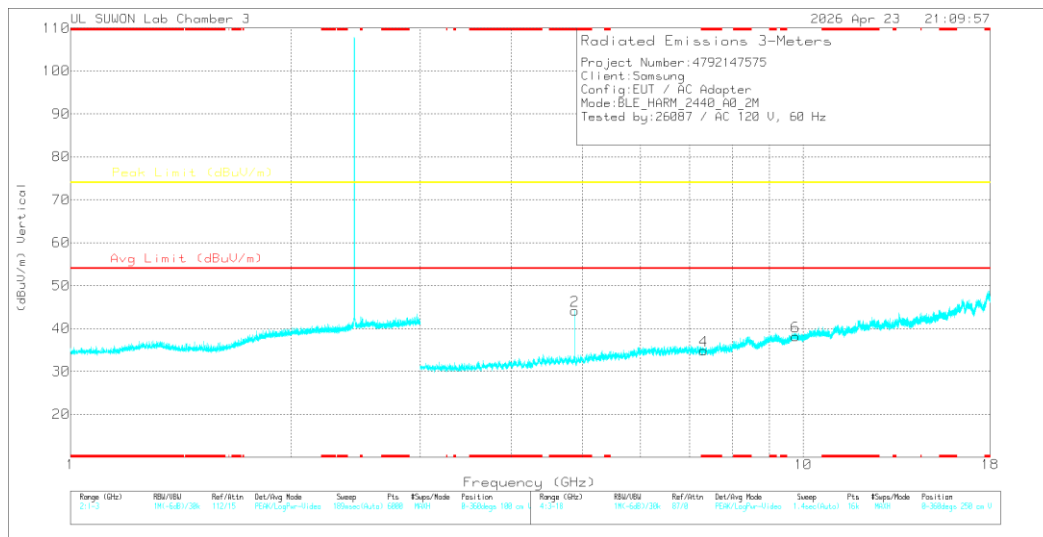
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 2440 MHz, ANT1)

2440 MHz RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	3GHz_HP_Pat h Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87998	43.62	PK2	34.2	-30.8	0	47.02	-	-	74	-26.98	0	150	H
* 4.87928	33.26	MAV1	34.2	-30.8	1.17	37.83	54	-16.17	-	-	0	150	H
* 4.88105	47.21	PK2	34.2	-30.8	0	50.61	-	-	74	-23.39	163	108	V
* 4.87909	39.78	MAV1	34.2	-30.8	1.17	44.35	54	-9.65	-	-	163	108	V
* 7.31631	34.62	PK2	35.8	-25.3	0	45.12	-	-	74	-28.88	0	100	H
* 7.31807	34.45	PK2	35.8	-25.3	0	44.95	-	-	74	-29.05	0	100	V
9.75595	32.24	PK2	36.9	-21.3	0	47.84	-	-	74	-26.16	0	100	H
9.75632	32.58	PK2	36.9	-21.3	0	48.18	-	-	74	-25.82	0	100	V

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS TEST DATA

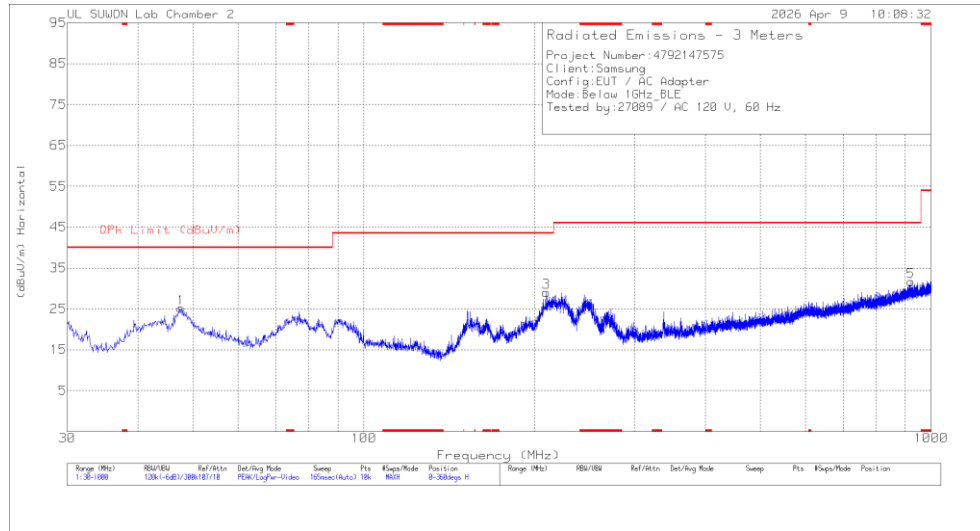
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2404	ANT 1	* 4.8078	42.80	PK2	34.30	-30.10	0.00	47.00	-	-	74.00	-27.00	303	282	H
		* 4.8089	31.78	MAv1	34.30	-30.10	1.17	37.15	54.00	-16.85	-	-	303	282	H
		* 4.80702	45.54	PK2	34.30	-30.10	0.00	49.74	-	-	74.00	-24.26	157	100	V
		* 4.80689	36.73	MAv1	34.30	-30.10	1.17	42.10	54.00	-11.90	-	-	157	100	V
		7.209	35.09	PK2	35.80	-25.80	0.00	45.09	-	-	74.00	-28.91	0	100	H
		7.214	34.90	PK2	35.80	-25.70	0.00	45.00	-	-	74.00	-29.00	0	100	V
		9.618	32.68	PK2	36.70	-21.70	0.00	47.68	-	-	74.00	-26.32	0	100	H
		9.617	33.23	PK2	36.70	-21.70	0.00	48.23	-	-	74.00	-25.77	0	100	V
		* 4.87998	43.62	PK2	34.20	-30.80	0.00	47.02	-	-	74.00	-26.98	0	150	H
		* 4.87928	33.26	MAv1	34.20	-30.80	1.17	37.83	54.00	-16.17	-	-	0	150	H
2440	ANT 1	* 4.88105	47.21	PK2	34.20	-30.80	0.00	50.61	-	-	74.00	-23.39	163	108	V
		* 4.87909	39.78	MAv1	34.20	-30.80	1.17	44.35	54.00	-9.65	-	-	163	108	V
		* 7.31631	34.62	PK2	35.80	-25.30	0.00	45.12	-	-	74.00	-28.88	0	100	H
		* 7.31807	34.45	PK2	35.80	-25.30	0.00	44.95	-	-	74.00	-29.05	0	100	V
		9.756	32.24	PK2	36.90	-21.30	0.00	47.84	-	-	74.00	-26.16	0	100	H
		9.756	32.58	PK2	36.90	-21.30	0.00	48.18	-	-	74.00	-25.82	0	100	V
		* 4.95503	44.06	PK2	34.30	-30.50	0.00	47.86	-	-	74.00	-26.14	337	118	H
		* 4.95504	35.20	MAv1	34.30	-30.50	1.17	40.17	54.00	-13.83	-	-	337	118	H
		* 4.95494	46.90	PK2	34.30	-30.50	0.00	50.70	-	-	74.00	-23.30	178	125	V
		* 4.95503	38.94	MAv1	34.30	-30.50	1.17	43.91	54.00	-10.09	-	-	178	125	V
2478	ANT 1	* 7.43252	34.16	PK2	35.70	-24.90	0.00	44.96	-	-	74.00	-29.04	0	100	H
		* 7.43633	34.27	PK2	35.70	-24.90	0.00	45.07	-	-	74.00	-28.93	0	100	V
		9.912	33.33	PK2	37.10	-21.40	0.00	49.03	-	-	74.00	-24.97	0	100	H
		9.912	32.50	PK2	37.10	-21.40	0.00	48.20	-	-	74.00	-25.80	0	100	V
		* 4.81124	39.03	PK2	34.30	-30.10	0.00	43.23	-	-	74.00	-30.77	119	109	H
		* 4.80757	27.54	MAv1	34.30	-30.10	1.17	32.91	54.00	-21.09	-	-	119	109	H
		* 4.80695	38.94	PK2	34.30	-30.10	0.00	43.14	-	-	74.00	-30.86	156	255	V
		* 4.80761	27.69	MAv1	34.30	-30.10	1.17	33.06	54.00	-20.94	-	-	156	255	V
		7.207	34.90	PK2	35.80	-25.70	0.00	45.00	-	-	74.00	-29.00	0	100	H
		7.215	34.53	PK2	35.80	-25.70	0.00	44.63	-	-	74.00	-29.37	0	100	V
2404	ANT 2	9.615	32.50	PK2	36.70	-21.70	0.00	47.50	-	-	74.00	-26.50	0	100	H
		9.616	32.58	PK2	36.70	-21.70	0.00	47.58	-	-	74.00	-26.42	0	100	V
		* 4.88449	39.92	PK2	34.20	-30.80	0.00	43.32	-	-	74.00	-30.68	136	128	H
		* 4.88077	28.20	MAv1	34.20	-30.80	1.17	32.77	54.00	-21.23	-	-	136	128	H
		* 4.88019	39.47	PK2	34.20	-30.80	0.00	42.87	-	-	74.00	-31.13	181	263	V
		* 4.87886	28.16	MAv1	34.20	-30.80	1.17	32.73	54.00	-21.27	-	-	181	263	V
		* 7.32393	34.48	PK2	35.80	-25.30	0.00	44.98	-	-	74.00	-29.02	0	100	H
		* 7.3199	34.36	PK2	35.80	-25.30	0.00	44.86	-	-	74.00	-29.14	0	100	V
		9.759	32.32	PK2	36.90	-21.30	0.00	47.92	-	-	74.00	-26.08	0	100	H
		9.758	31.88	PK2	36.90	-21.30	0.00	47.48	-	-	74.00	-26.52	0	100	V
2478	ANT 2	* 4.95516	39.11	PK2	34.30	-30.50	0.00	42.91	-	-	74.00	-31.09	127	196	H
		* 4.95513	27.94	MAv1	34.30	-30.50	1.17	32.91	54.00	-21.09	-	-	127	196	H
		* 4.95695	38.60	PK2	34.30	-30.40	0.00	42.50	-	-	74.00	-31.50	176	121	V
		* 4.95503	27.91	MAv1	34.30	-30.50	1.17	32.88	54.00	-21.12	-	-	176	121	V
		* 7.43622	34.40	PK2	35.70	-24.90	0.00	45.20	-	-	74.00	-28.80	0	100	H
		* 7.43388	34.11	PK2	35.70	-25.00	0.00	44.81	-	-	74.00	-29.19	0	100	V
		9.910	32.91	PK2	37.10	-21.40	0.00	48.61	-	-	74.00	-25.39	0	100	H
		9.912	32.54	PK2	37.10	-21.40	0.00	48.24	-	-	74.00	-25.76	0	100	V
		* 4.80742	38.96	PK2	34.30	-30.10	0.00	43.16	-	-	74.00	-30.84	26	117	H
		* 4.80829	27.69	MAv1	34.30	-30.10	1.17	33.06	54.00	-20.94	-	-	26	117	H
2404	DUAL	* 4.81027	39.38	PK2	34.30	-30.20	0.00	43.48	-	-	74.00	-30.52	0	100	V
		7.211	38.85	PK2	35.80	-25.80	0.00	48.85	-	-	74.00	-25.15	329	110	H
		7.210	39.69	PK2	35.80	-25.80	0.00	49.69	-	-	74.00	-24.31	182	103	V
		9.621	32.66	PK2	36.70	-21.60	0.00	47.76	-	-	74.00	-26.24	0	100	H
		9.612	32.17	PK2	36.70	-21.70	0.00	47.17	-	-	74.00	-26.83	0	100	V
		* 4.88074	39.94	PK2	34.20	-30.80	0.00	43.34	-	-	74.00	-30.66	21	108	H
		* 4.87965	28.15	MAv1	34.20	-30.80	1.17	32.72	54.00	-21.28	-	-	21	108	H
		* 4.88	39.12	PK2	34.20	-30.80	0.00	42.52	-	-	74.00	-31.48	0	100	V
		* 7.32162	38.43	PK2	35.80	-25.20	0.00	49.03	-	-	74.00	-24.97	325	100	H
		* 7.3188	27.69	MAv1	35.80	-25.30	1.17	39.36	54.00	-14.64	-	-	325	100	H
2440	DUAL	* 7.32145	39.16	PK2	35.80	-25.20	0.00	49.76	-	-	74.00	-24.24	176	103	V
		* 7.31878	29.63	MAv1	35.80	-25.30	1.17	41.30	54.00	-12.70	-	-	176	103	V
		9.760	32.00	PK2	36.90	-21.30	0.00	47.60	-	-	74.00	-26.40	0	100	H
		9.760	31.93	PK2	36.90	-21.30	0.00	47.53	-	-	74.00	-26.47	0	100	V
		* 4.95473	39.29	PK2	34.30	-30.50	0.00	43.09	-	-	74.00	-30.91	21	114	H
		* 4.95509	28.40	MAv1	34.30	-30.50	1.17	33.37	54.00	-20.63	-	-	21	114	H
		* 4.9552	39.62	PK2	34.30	-30.50	0.00	43.42	-	-	74.00	-30.58	268	106	V
		* 4.95486	27.56	MAv1	34.30	-30.50	1.17	32.53	54.00	-21.47	-	-	268	106	V
		* 7.43536	36.26	PK2	35.70	-24.90	0.00	47.06	-	-	74.00	-26.94	326	108	H
		* 7.43282	25.51	MAv1	35.70	-24.90	1.17	37.48	54.00	-16.52	-	-	326	108	H
2478	DUAL	* 7.4355	38.38	PK2	35.70	-24.90	0.00	49.18	-	-	74.00	-24.82	179	100	V
		* 7.43517	28.60	MAv1	35.70	-24.90	1.17	40.57	54.00	-13.43	-	-	179	100	V
		9.909	32.17	PK2	37.10	-21.40	0.00	47.87	-	-	74.00	-26.13	0	100	H
		9.915	32.33	PK2	37.10	-21.40	0.00	48.03	-	-	74.00	-25.97	0	100	V

Note1. PK2 - KDB558074 Method: Maximum Peak / MAv1 - KDB558074 Option 1 Maximum RMS Average

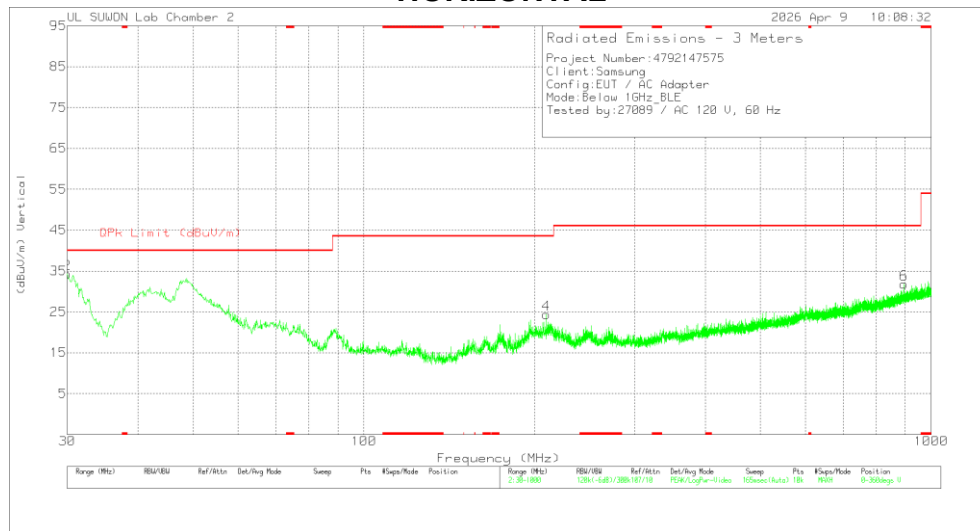
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

10.3. WORST CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



HORIZONTAL



VERTICAL

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	Below_1G_Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	47.654	37.19	Pk	19.7	-31.8	25.09	40	-14.91	0-360	200	H
3	209.838	43.12	Pk	16.6	-30.7	29.02	43.52	-14.5	0-360	100	H
5	920.945	31.42	Pk	28.1	-27.9	31.62	46.02	-14.4	0-360	100	H
2	30	50.2	Pk	16	-31.9	34.3	40	-5.7	0-360	100	V
4	209.644	38.51	Pk	16.6	-30.7	24.41	43.52	-19.11	0-360	100	V
6	895.434	32.12	Pk	27.8	-28.1	31.82	46.02	-14.2	0-360	300	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dB/m)	Below_1G_Pat h Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
30	43.3	Qp	16	-31.9	27.4	40	-12.6	345	100	V

Qp - Quasi-Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

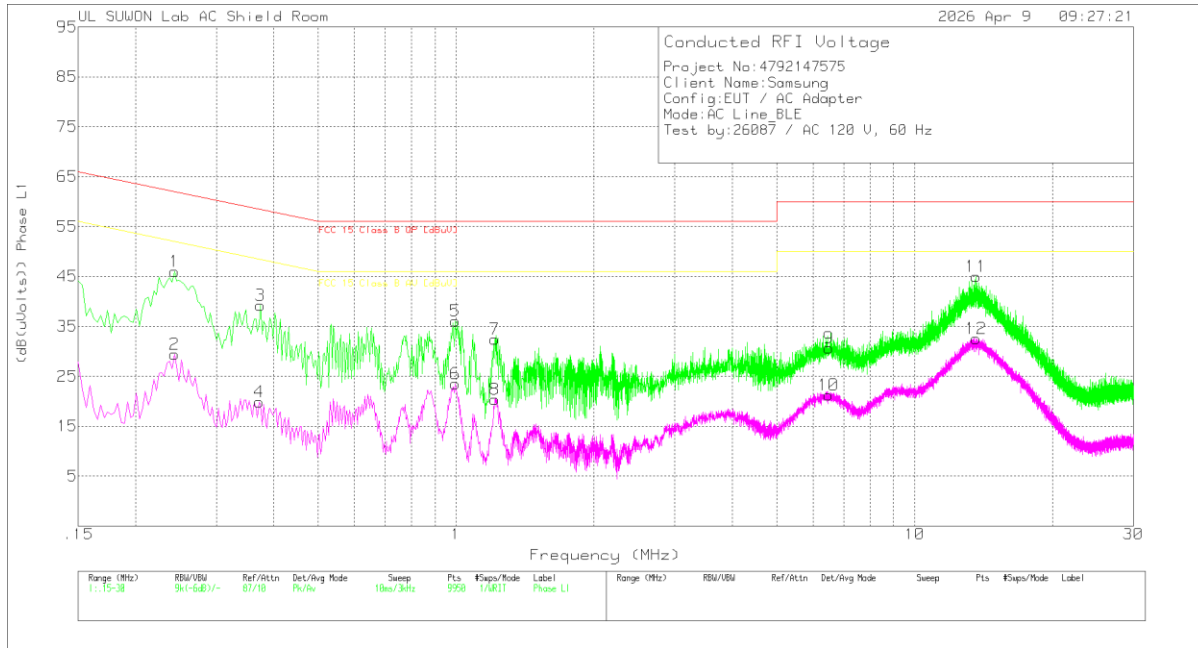
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

11.1. AC Power Line

LINE 1 RESULTS



Trace Markers

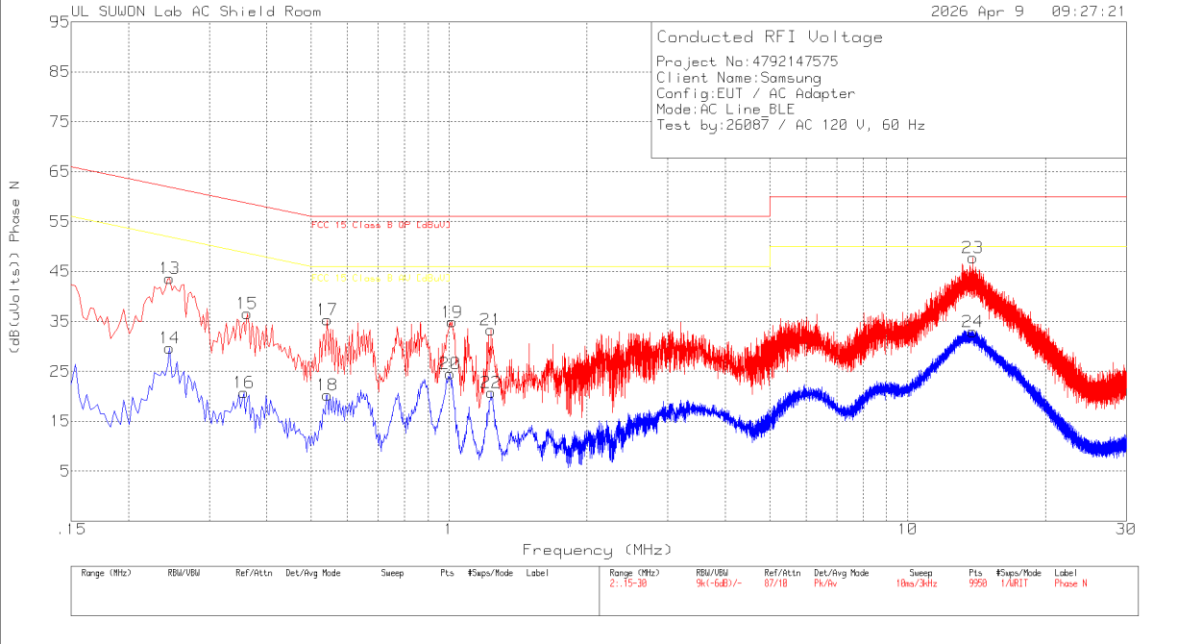
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	101836_Wit h EX_L1 [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin [dB]	FCC 15 Class B AV [dBuV]	Margin [dB]
1	.243	36.2	Pk	9.7	.1	46	61.99	-15.99	-	-
2	.243	19.57	Av	9.7	.1	29.37	-	-	51.99	-22.62
3	.375	29.28	Pk	9.8	.1	39.18	58.39	-19.21	-	-
4	.372	9.97	Av	9.8	.1	19.87	-	-	48.46	-28.59
5	.996	26.15	Pk	9.8	.1	36.05	56	-19.95	-	-
6	.996	13.59	Av	9.8	.1	23.49	-	-	46	-22.51
7	1.215	22.65	Pk	9.7	.1	32.45	56	-23.55	-	-
8	1.215	10.61	Av	9.7	.1	20.41	-	-	46	-25.59
9	6.492	20.68	Pk	9.8	.2	30.68	60	-29.32	-	-
10	6.489	11.28	Av	9.8	.2	21.28	-	-	50	-28.72
11	13.623	34.74	Pk	10	.3	45.04	60	-14.96	-	-
12	13.62	22.22	Av	10	.3	32.52	-	-	50	-17.48

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	101836_Wit h EX_L1 [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin [dB]	FCC 15 Class B AV [dBuV]	Margin [dB]
13	.246	33.9	Pk	9.6	.1	43.6	61.89	-18.29	-	-
14	.246	19.98	Av	9.6	.1	29.68	-	-	51.89	-22.21
15	.363	26.64	Pk	9.8	.1	36.54	58.66	-22.12	-	-
16	.357	10.87	Av	9.8	.1	20.77	-	-	48.8	-28.03
17	.543	25.3	Pk	9.9	.1	35.3	56	-20.7	-	-
18	.543	10.22	Av	9.9	.1	20.22	-	-	46	-25.78
19	1.014	25.08	Pk	9.7	.1	34.88	56	-21.12	-	-
20	1.005	14.68	Av	9.7	.1	24.48	-	-	46	-21.52
21	1.233	23.5	Pk	9.7	.1	33.3	56	-22.7	-	-
22	1.236	10.94	Av	9.7	.1	20.74	-	-	46	-25.26
23	13.881	37.45	Pk	10	.3	47.75	60	-12.25	-	-
24	13.878	22.65	Av	10	.3	32.95	-	-	50	-17.05

Pk - Peak detector

Av - Average detection

END OF TEST REPORT