

CERTIFICATION TEST REPORT

Report Number. : S-4791724269-E8V2

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

Model : SM-A566U1

FCC ID : A3LSMA566U

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

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

Date Of Issue:
2025-05-21

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Revision History

Rev.	Issue Date	Revisions	Presented By
V1	2025-05-09	Initial issue	Jaejin Lee
V2	2025-05-21	Updated to address TCB's question	Jaejin Lee

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. DECISION RULES AND MEASUREMENT UNCERTAINTY	7
4.1. METROLOGICAL TRACEABILITY	7
4.2. SAMPLE CALCULATION	7
4.3. MEASUREMENT UNCERTAINTY	7
4.4. DECISION RULES	7
5. EQUIPMENT UNDER TEST	8
5.1. EUT DESCRIPTION	8
5.2. MAXIMUM OUTPUT POWER	8
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	9
5.4. WORST-CASE CONFIGURATION AND MODE	9
5.5. DESCRIPTION OF TEST SETUP	10
6. MEASUREMENT METHOD	13
7. TEST AND MEASUREMENT EQUIPMENT	14
8. TEST RESULTS SUMMARY	15
9. ANTENNA PORT TEST RESULTS	16
9.1. ON TIME AND DUTY CYCLE	16
9.2. 6 dB BANDWIDTH	17
9.2.1. TEST DATA	17
9.2.2. 6 dB BANDWIDTH PLOTS	18
9.3. OUTPUT POWER	19
9.3.1. TEST DATA	19
9.3.2. PEAK POWER PLOTS	20
9.4. AVERAGE POWER	21
9.4.1. SISO MODE TEST DATA	21
9.5. POWER SPECTRAL DENSITY	22
9.5.1. Test data	22
9.5.2. PSD TEST PLOTS	23
9.6. CONDUCTED SPURIOUS EMISSIONS	25
9.6.1. Test plot	26

10.	RADIATED TEST RESULTS	28
10.1.	LIMITS AND PROCEDURE.....	28
10.1.	TRANSMITTER ABOVE 1 GHz.....	30
10.1.1.	TX ABOVE 1 GHz BLUETOOTH LE 1 Mbps_ANT1.....	30
10.1.2.	TX ABOVE 1 GHz BLUETOOTH LE 2 Mbps_ANT1.....	34
10.2.	WORST CASE BELOW 1 GHz	38
11.	AC POWER LINE CONDUCTED EMISSIONS	39
11.1.	AC Power Line	40

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 and NFC

MODEL NUMBER: SM-A566U1

SERIAL NUMBER: R3CY30GAQBL, R3CY30GAREL, R3CY30GAQPP (CONDUCTED); R3CY30GAQQA, R3CY30GAQ4P, R3CY30GAQ8K (RADIATED)

DATE TESTED: 2025-04-07 – 2025-05-09

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.

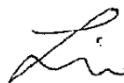
Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration 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:



Jaejin 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. 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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) +
Cable Loss (dB) – Preamp Gain (dB)

28.9 dBuV/m = 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB

AC Corrected Reading (dBuV) = Measured Voltage (dBuV) + Extension Cord
Loss (dB) + Cable Loss (dB)

44.72 dBuV = 34.72 dBuV + 9.9 dB + 0.1 dB

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	0.69 dB
Power Spectral Density	1.4 dB
Occupied Bandwidth	0.04 %
Conducted Spurious Emissions	1.4 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	3.69 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.18 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 and NFC.
This test report addresses the DTS (BLE) operational mode.

5.2. MAXIMUM OUTPUT POWER

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

Frequency Range[MHz]	Mode	Power Mode	Output Power [dBm]	Output Power [mW]
2 402 ~ 2 480	1Mbps (37 pkt)	Peak	17.830	60.674
		Average	17.493	56.144
2 404 ~ 2 478	2Mbps (37 pkt)	Peak	18.180	65.766
		Average	17.748	59.539

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: -4.78 dBi

“SUB4” as indicated in antenna specification are written as ANT1 in this report.

5.4. WORST-CASE CONFIGURATION AND MODE

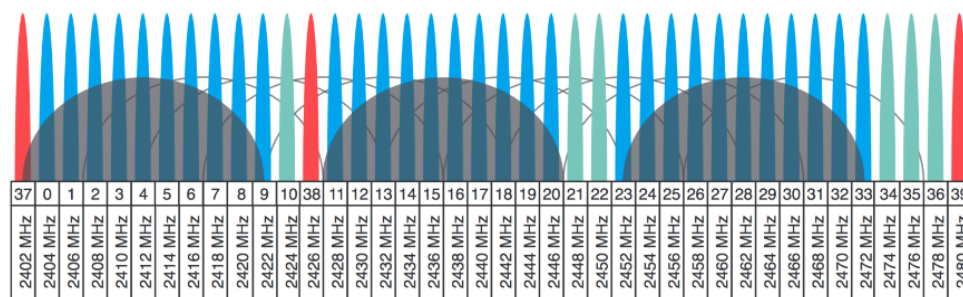
The fundamentals of the EUT were investigated in three orthogonal orientations X, Y and Z. For the radiated band-edge, the X-axis orientation of the antenna was identified as the worst-case configuration, while for spurious emissions testing, the Y-axis orientation demonstrated the most critical emissions profile.

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 SISO 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.

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

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.



Power verification

The Output Power of all data rate are all investigated, the 1 Mbps(37 pkt) and 2 Mbps(37 pkt) power is the worst case for symbol rate. All tests were performed in these two modes.

Symbol Rate [Ms/s]	Mode	Freq. [MHz]	Conducted Burst Average Power [dBm]	Symbol Rate [Ms/s]	Mode	Freq. [MHz]	Conducted Burst Average Power [dBm]
1	1 Mbps 37 pkt ANT1	2 402	17.490	2	2 Mbps 37 pkt ANT1	2 404	17.748
		2 440	17.448			2 440	17.430
		2 480	17.493			2 478	17.183
	1 Mbps 255 pkt ANT1	2 402	17.317		2 Mbps 255 pkt ANT1	2 404	17.637
		2 440	17.146			2 440	17.203
		2 480	17.280			2 478	17.028
1 Coded S=8	125 kbps 37 pkt ANT1	2 402	13.015	1 Coded S=2	500 kbps 37 pkt ANT1	2 402	13.091
		2 440	13.440			2 440	13.566
		2 480	13.235			2 480	13.339
	125 kbps 255 pkt ANT1	2 402	12.922		500 kbps 255 pkt ANT1	2 402	12.865
		2 440	13.327			2 440	13.195
		2 480	13.106			2 480	13.134

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37XBMJF8FBDKA	N/A
Data Cable	SAMSUNG	EP-DN980B	N/A	N/A

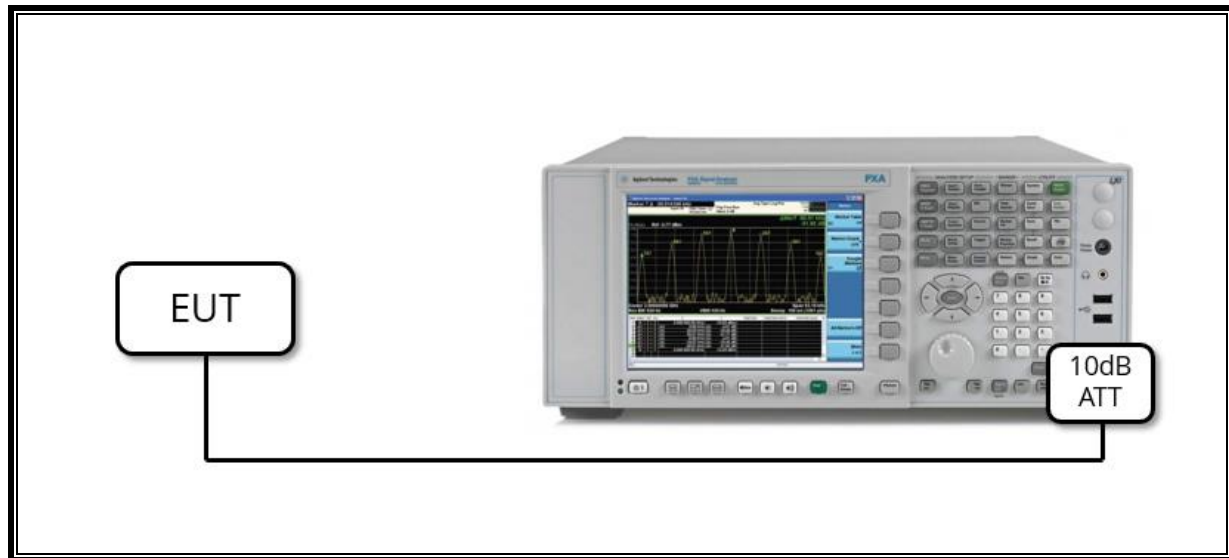
I/O CABLE

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

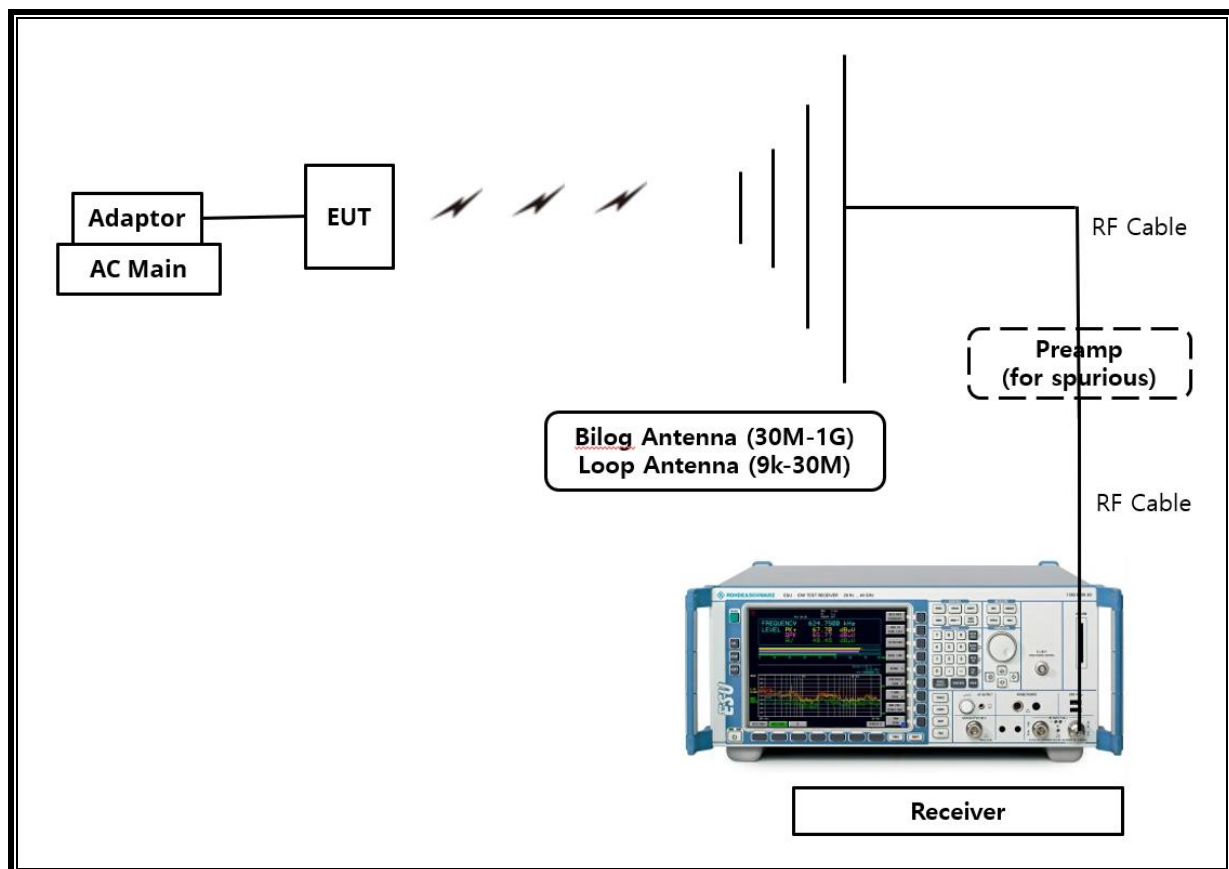
TEST SETUP

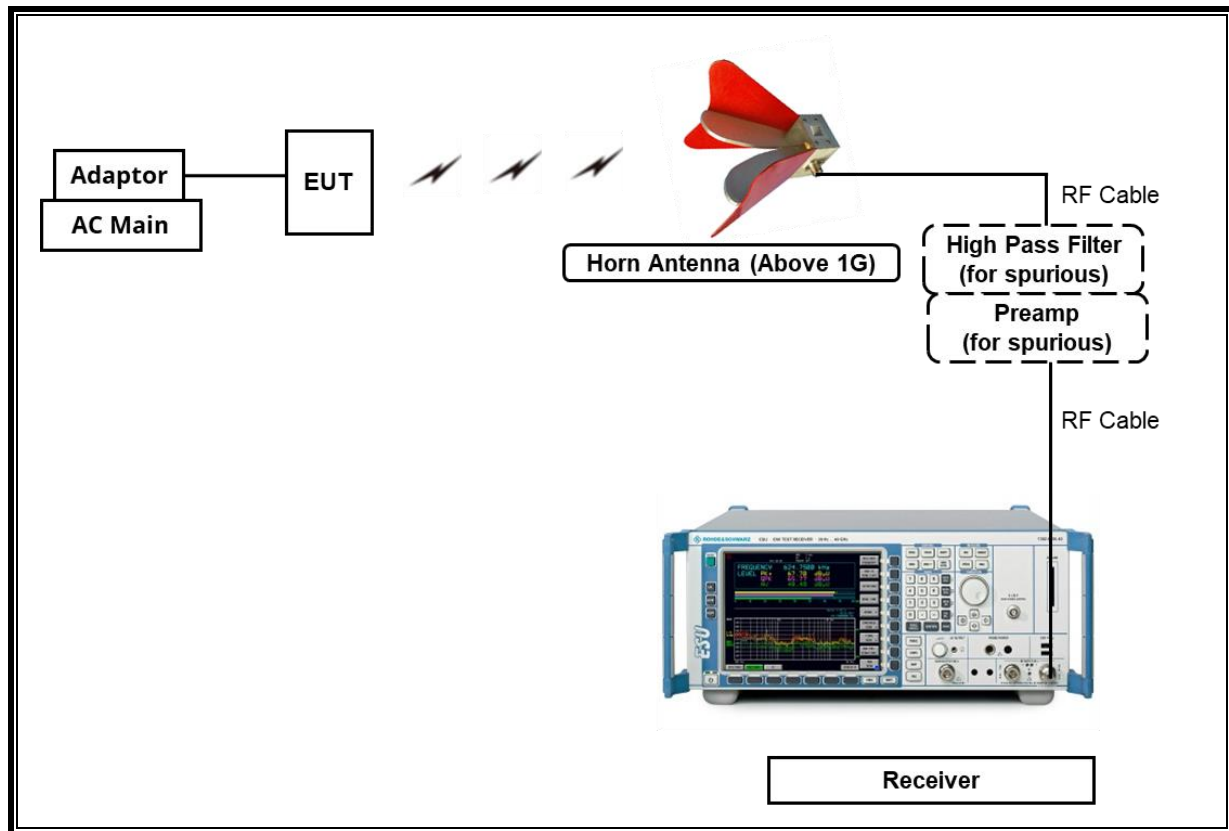
The EUT is a stand-alone unit during the tests.
Test software in hidden menu exercised the EUT to enable BLE mode.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)





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	2025-07-25
Preamplifier, 1000 MHz	Sonoma	310N	341282	2025-07-22
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2025-07-23
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	2025-07-24
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	2026-01-02
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9040B	MY60080268	2025-12-24
RF Switching Unit	TA Engineering	TA-018S-16	SW-1	N/A
Average Power Sensor	Agilent / HP	U2000A	MY54270007	2025-07-23
Average Power Sensor	Agilent / HP	U2000A	MY54260010	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A001	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A008	2025-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2025-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2025-07-22
EMI Test Receive, 3 GHz	R&S	ESR 3	101832	2025-07-22
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	009	2025-07-22
High Pass Filter 3GHz	Micro-Tronics	HPM17543	010	2025-07-22
High Pass Filter 6GHz	Micro-Tronics	HPS17542	21	2025-07-23
LISN	R&S	ENV216	101837	2025-07-22
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2025-09-07
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

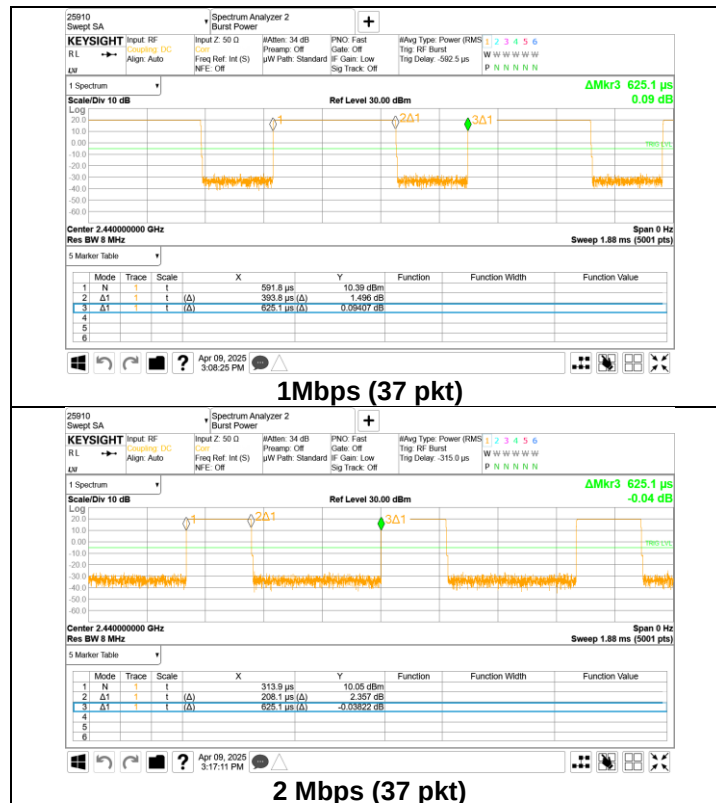
9. ANTENNA PORT TEST RESULTS

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 [37 pkt]	0.394	0.625	0.6300	62.998	2.01	2.539
2 Mbps [37 pkt]	0.208	0.625	0.3329	33.291	4.78	4.805



9.2. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

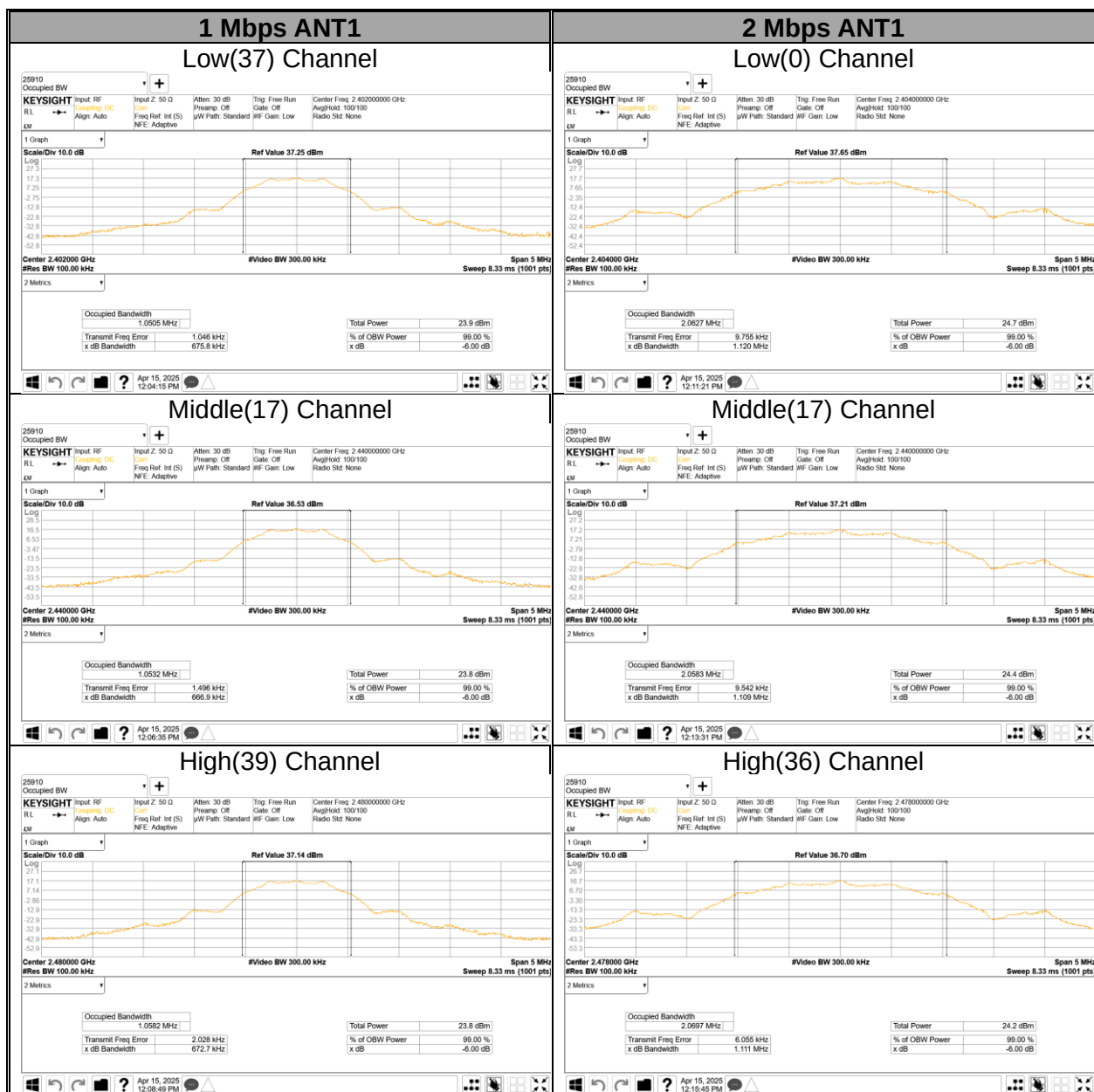
The minimum 6 dB bandwidth shall be at least 500 kHz.

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	675.8	500.0
		17	2 440	666.9	
		39	2 480	672.7	
2 Mbps (37pkt)	ANT1	0	2 404	1120.0	
		17	2 440	1109.0	
		36	2 478	1111.0	
Worst				666.9	500.0

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

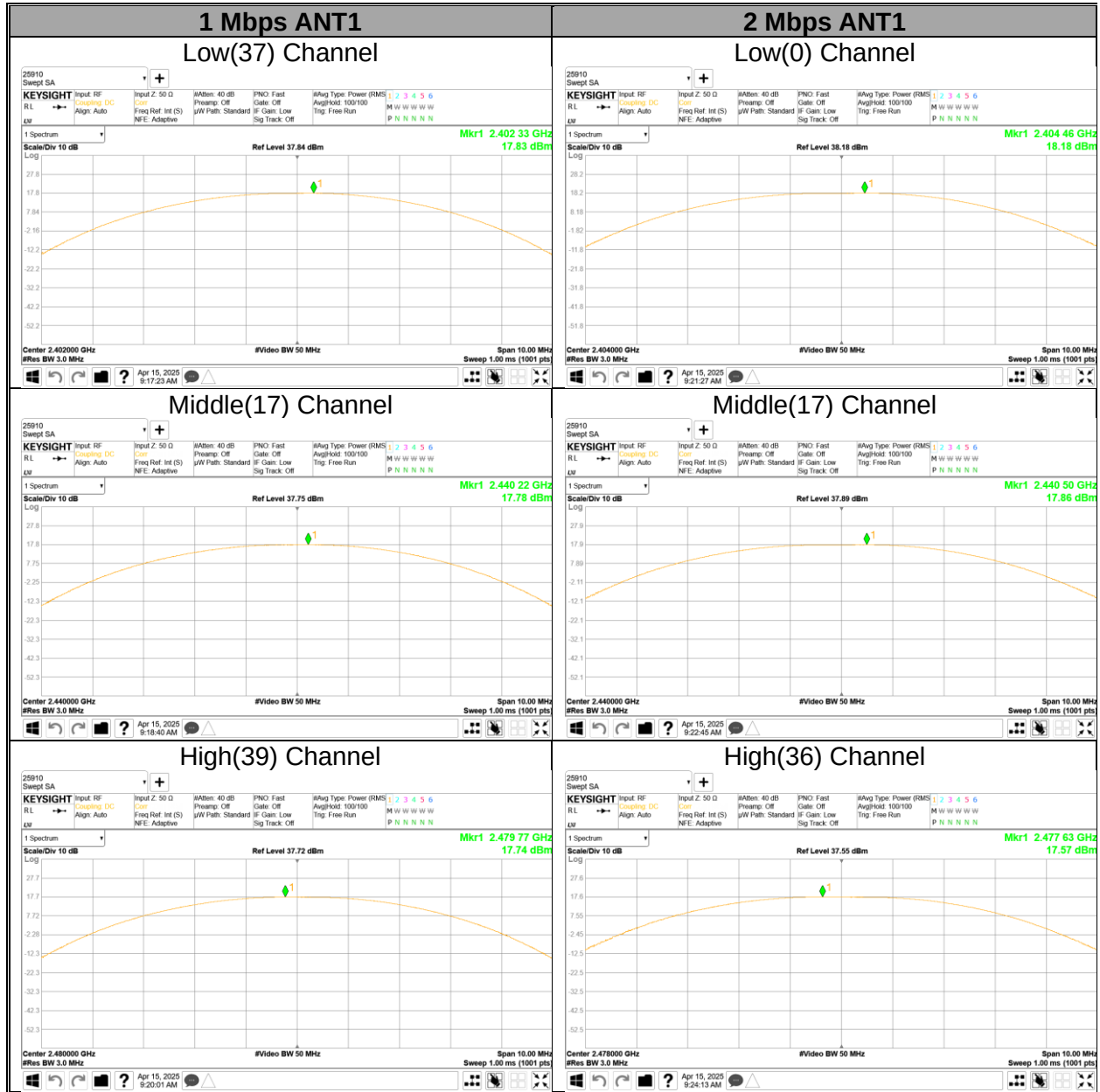
Peak power is measured using ANSI C63.10(2013) under section 11.9.1.1 utilizing spectrum analyzer(RBW $\geq$ DTS bandwidth).

RESULTS

9.3.1. TEST DATA

Mode	Antenna	Channel	Frequency [MHz]	Peak Output Power [dBm]	Limit [dBm]	Margin [dB]
1 Mbps (37 pkt)	ANT1	37	2 402	17.83		-12.17
		17	2 440	17.78		-12.22
		39	2 480	17.74		-12.26
2 Mbps (37 pkt)	ANT1	0	2 404	18.18		-11.82
		17	2 440	17.86		-12.14
		36	2 478	17.57		-12.43
Worst				18.18		-11.82

9.3.2. PEAK POWER PLOTS



9.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Measurements performed 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. SISO MODE TEST DATA

Mode	Antenna	Channel	Frequency [MHz]	Average Output Power [dBm]	Average Output Power [mW]
1 Mbps (37 pkt)	ANT1	37	2 402	17.490	56.105
		17	2 440	17.448	55.565
		39	2 480	17.493	56.144
2 Mbps (37 pkt)	ANT1	0	2 404	17.748	59.539
		17	2 440	17.430	55.335
		36	2 478	17.183	52.276

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

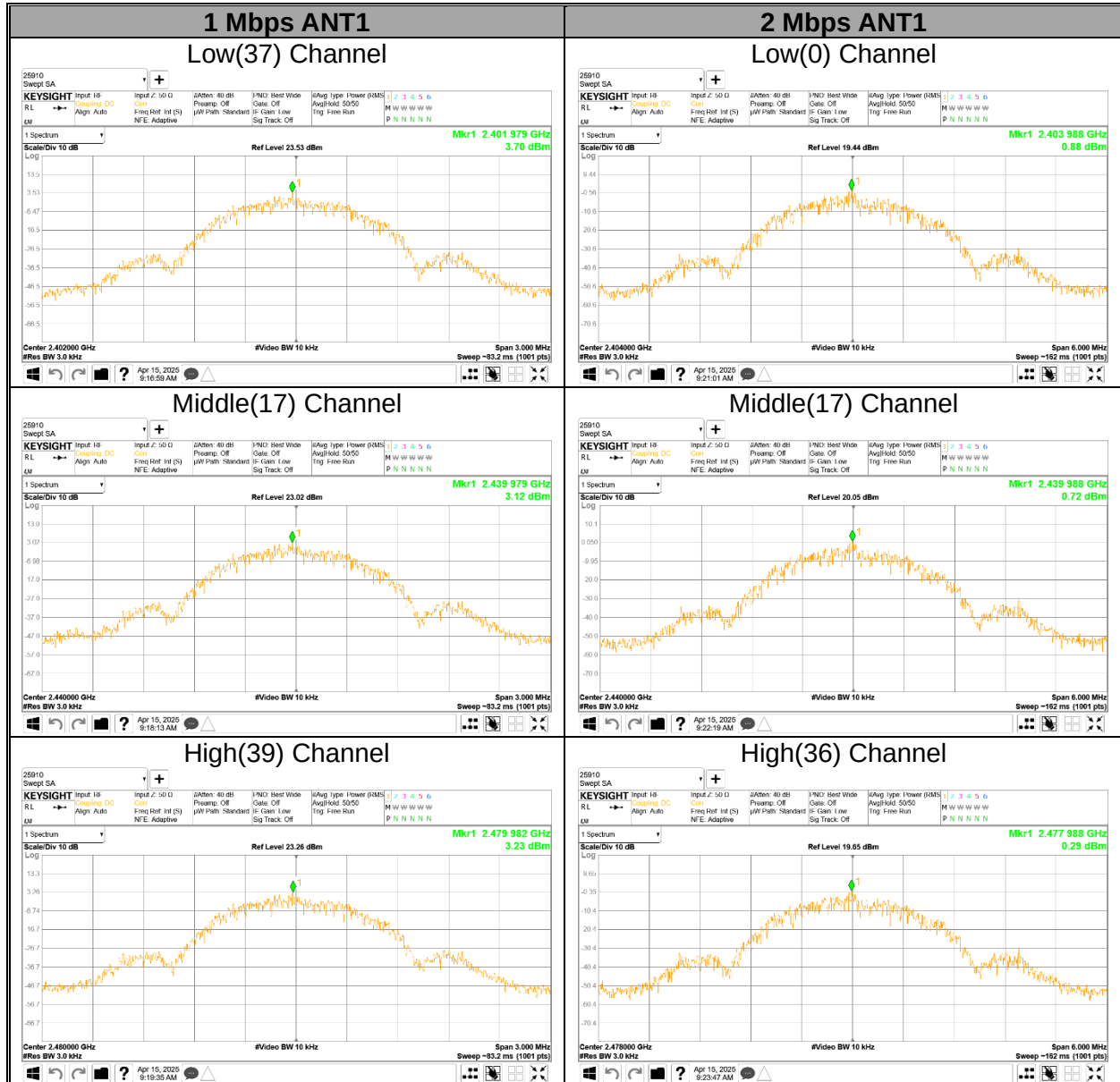
ANSI C63.10-2013, Section 11.10.2 Method PKPSD (peak PSD)

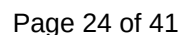
RESULTS

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	3.70	8.00	-4.30
		17	2 440	3.12		-4.88
		39	2 480	3.23		-4.77
2 Mbps (37 pkt)	ANT1	0	2 404	0.88		-7.12
		17	2 440	0.72		-7.28
		36	2 478	0.29		-7.71
125 kbps (37 pkt)	ANT1	37	2 402	7.02		-0.98
		17	2 440	7.41		-0.59
		39	2 480	7.24		-0.76
500 kbps (37 pkt)	ANT1	37	2 402	6.74		-1.26
		17	2 440	7.22		-0.78
		39	2 480	7.13		-0.87
Worst				7.41		-0.59

9.5.2. PSD TEST PLOTS





9.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

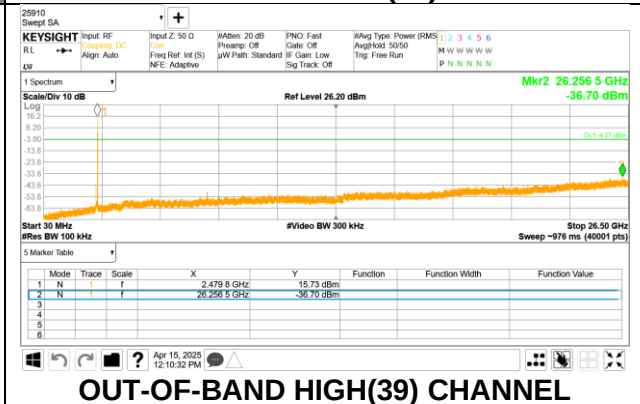
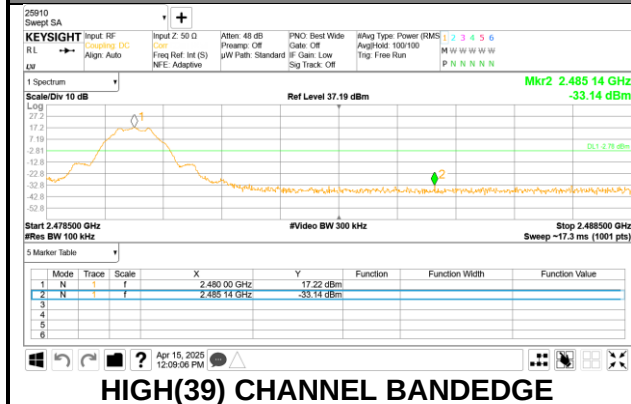
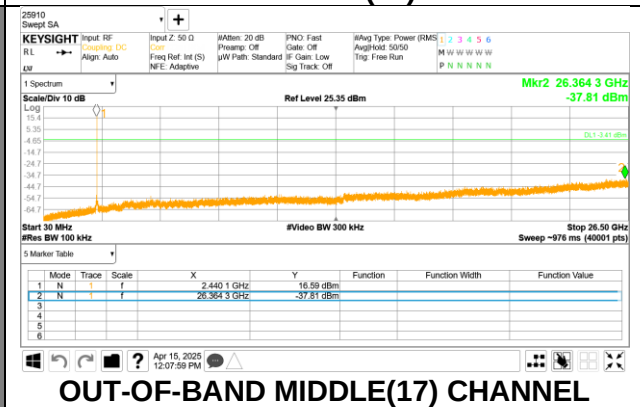
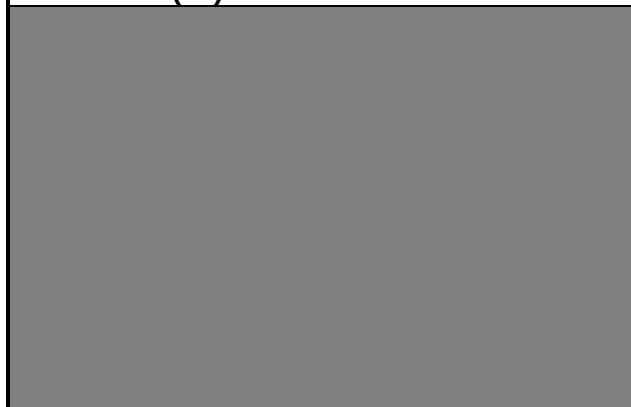
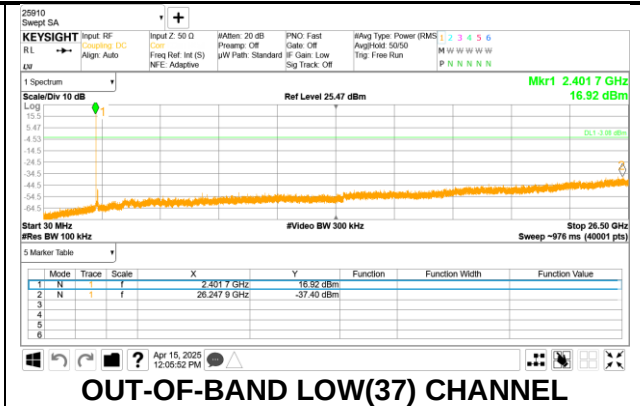
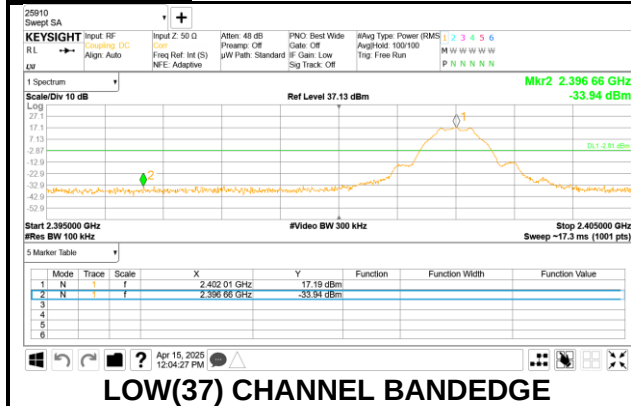
FCC §15.247 (d)

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

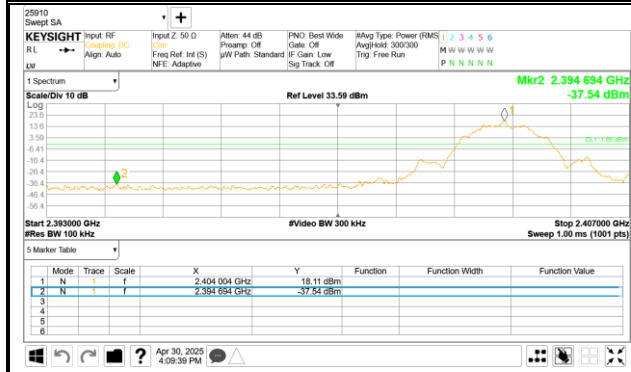
RESULTS

9.6.1. Test plot

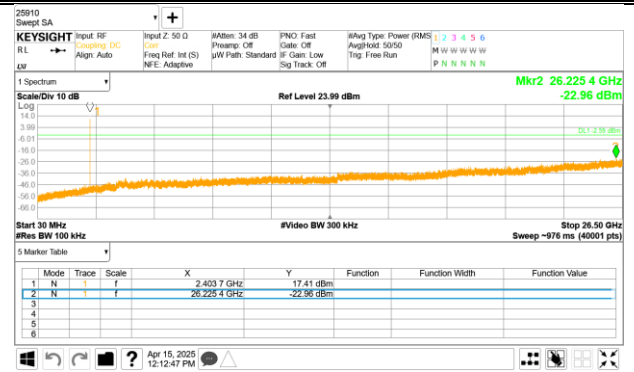
1 Mbps ANT1



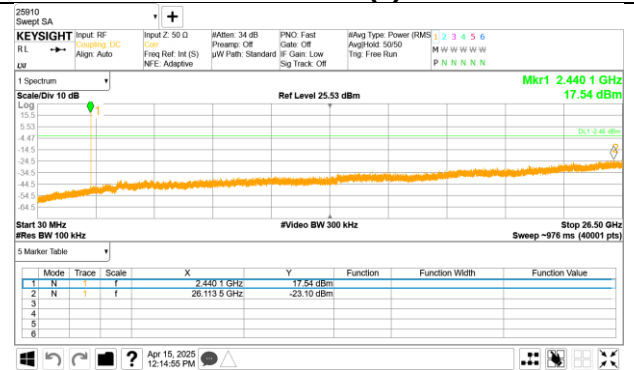
2 Mbps ANT1



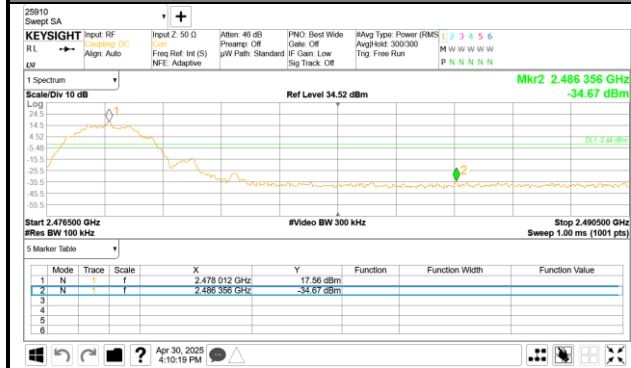
LOW(0) CHANNEL BANDEDGE



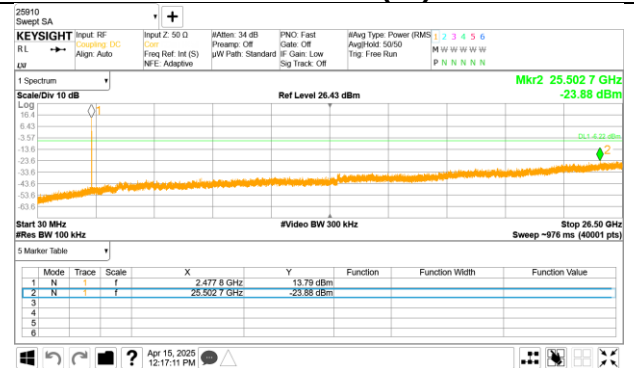
OUT-OF-BAND LOW(0) CHANNEL



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: For 1 Mbps, DCF = $10 \log (1/0.630) = 2.01 \text{ dB}$ (Spectrum Analyzer round it up to 2.01 dB) and for 2 Mbps, DCF = $10 \log (1/0.333) = 4.78 \text{ dB}$ (Spectrum Analyzer round it up to 4.78 dB).

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.

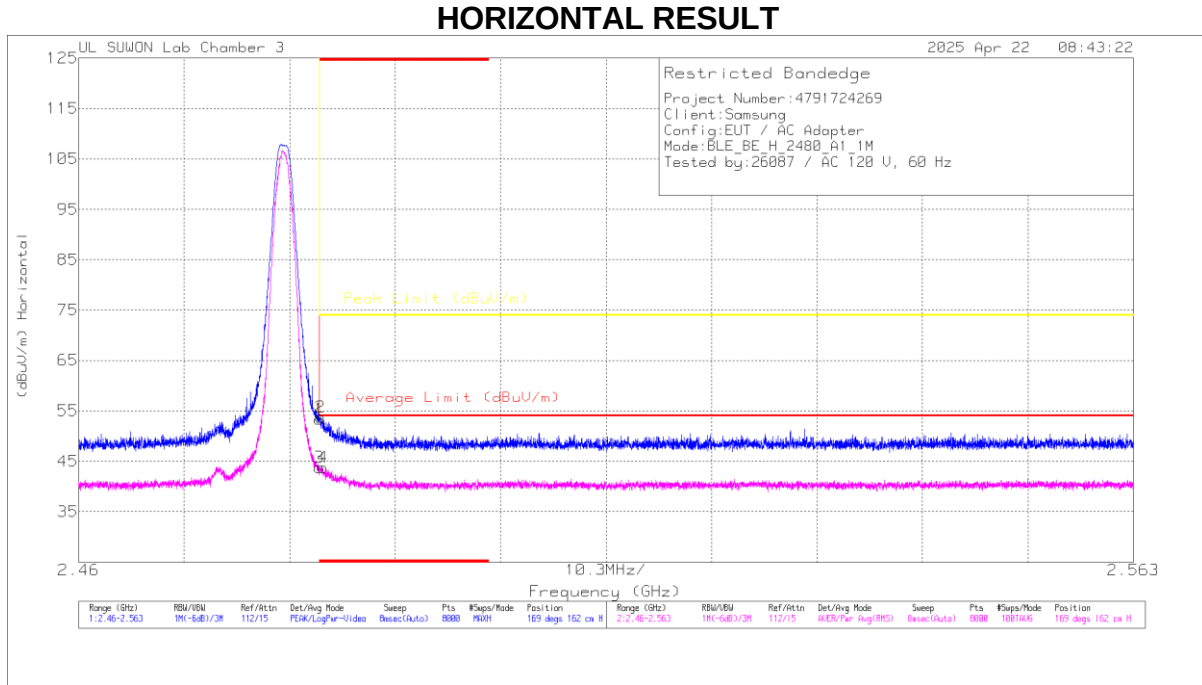
Note: Emission was pre-scanned from 9kHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor). Per FCC part 15.31(o), test results were not reported.

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.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz BLUETOOTH LE 1 Mbps_ANT1

BANDEDGE (WORST CASE: 2480 MHz, ANT1)



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)	Altitude (m)	Height (cm)	Polarity
1	* 2.4835	45.85	Pk	32.4	-24.9	0	53.35	-	-	74	-20.65	169	162	H
2	* 2.48359	46.19	Pk	32.4	-24.9	0	53.69	-	-	74	-20.31	169	162	H
3	* 2.4835	34.24	RMS	32.4	-24.9	2.01	43.75	54	-10.25	-	-	169	162	H
4	* 2.48384	34.29	RMS	32.4	-24.9	2.01	43.8	54	-10.2	-	-	169	162	H

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

Pk - Peak detector

RMS - RMS detection

BANDEDGE TEST DATA

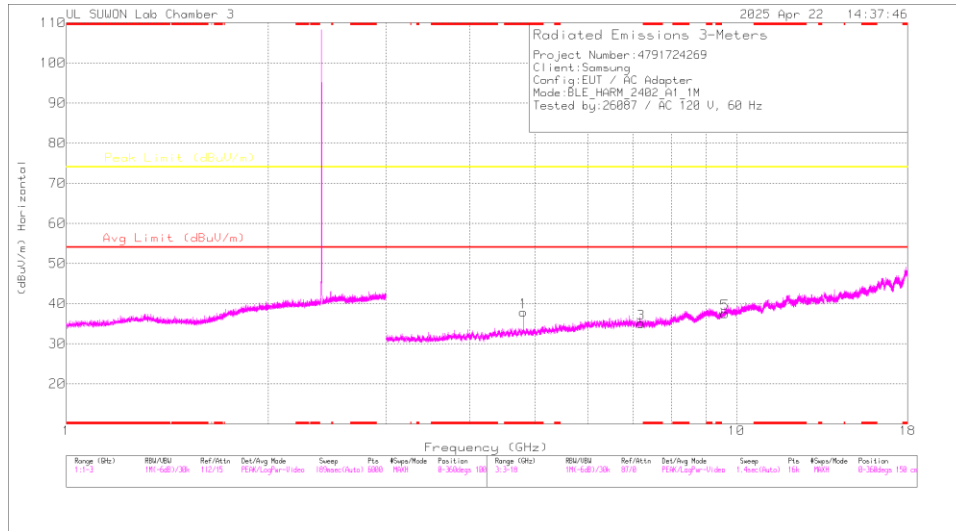
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2402	ANT1	* 2.39	41.07	Pk	32.10	-24.90	0.00	48.27	-	-	74.00	-25.73	130	168	H
		* 2.37633	43.86	Pk	32.10	-25.00	0.00	50.96	-	-	74.00	-23.04	130	168	H
		* 2.39	31.13	RMS	32.10	-24.90	2.01	40.34	54.00	-13.66	-	-	130	168	H
		* 2.3853	31.84	RMS	32.10	-25.00	2.01	40.95	54.00	-13.05	-	-	130	168	H
		* 2.39	40.57	Pk	32.10	-24.90	0.00	47.77	-	-	74.00	-26.23	196	389	V
		* 2.36361	43.28	Pk	32.00	-25.10	0.00	50.18	-	-	74.00	-23.82	196	389	V
		* 2.39	30.92	RMS	32.10	-24.90	2.01	40.13	54.00	-13.87	-	-	196	389	V
		* 2.36252	32.04	RMS	32.00	-25.10	2.01	40.95	54.00	-13.05	-	-	196	389	V
		* 2.4835	45.85	Pk	32.40	-24.90	0.00	53.35	-	-	74.00	-20.65	169	162	H
		* 2.48359	46.19	Pk	32.40	-24.90	0.00	53.69	-	-	74.00	-20.31	169	162	H
2480	ANT1	* 2.4835	34.24	RMS	32.40	-24.90	2.01	43.75	54.00	-10.25	-	-	169	162	H
		* 2.48384	34.29	RMS	32.40	-24.90	2.01	43.80	54.00	-10.20	-	-	169	162	H
		* 2.4835	43.76	Pk	32.40	-24.90	0.00	51.26	-	-	74.00	-22.74	204	400	V
		* 2.4838	45.14	Pk	32.40	-24.90	0.00	52.64	-	-	74.00	-21.36	204	400	V
		* 2.4835	33.06	RMS	32.40	-24.90	2.01	42.57	54.00	-11.43	-	-	204	400	V
		* 2.48369	33.91	RMS	32.40	-24.90	2.01	43.42	54.00	-10.58	-	-	204	400	V

Note1. Pk - Peak detector, RMS - RMS detector

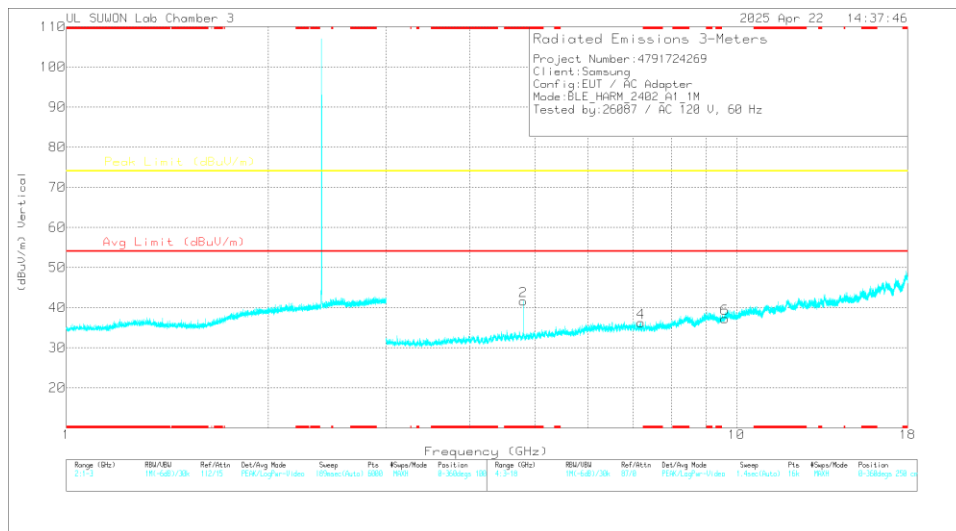
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 2402 MHz, ANT1)

2402 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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna_Factor (dBm)	3GHz_HP_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Acimuth (Degs)	Height (cm)	Polarity
1	* 4.80386	33.4	PK	34.3	-29.8	0	37.9	-	-	74	-36.1	0-360	150	H
3	7.20589	24.95	PK	35.8	-25.7	0	35.05	-	-	74	-38.95	0-360	150	H
5	9.60885	22.53	PK	36.7	-21.7	0	37.53	-	-	74	-36.47	0-360	150	H
2	* 4.80293	37.17	PK	34.3	-29.8	0	41.67	-	-	74	-32.33	0-360	250	V
4	7.20495	26.17	PK	35.8	-25.7	0	36.27	-	-	74	-37.73	0-360	150	V
6	9.60885	22.29	PK	36.7	-21.7	0	37.29	-	-	74	-36.71	0-360	250	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

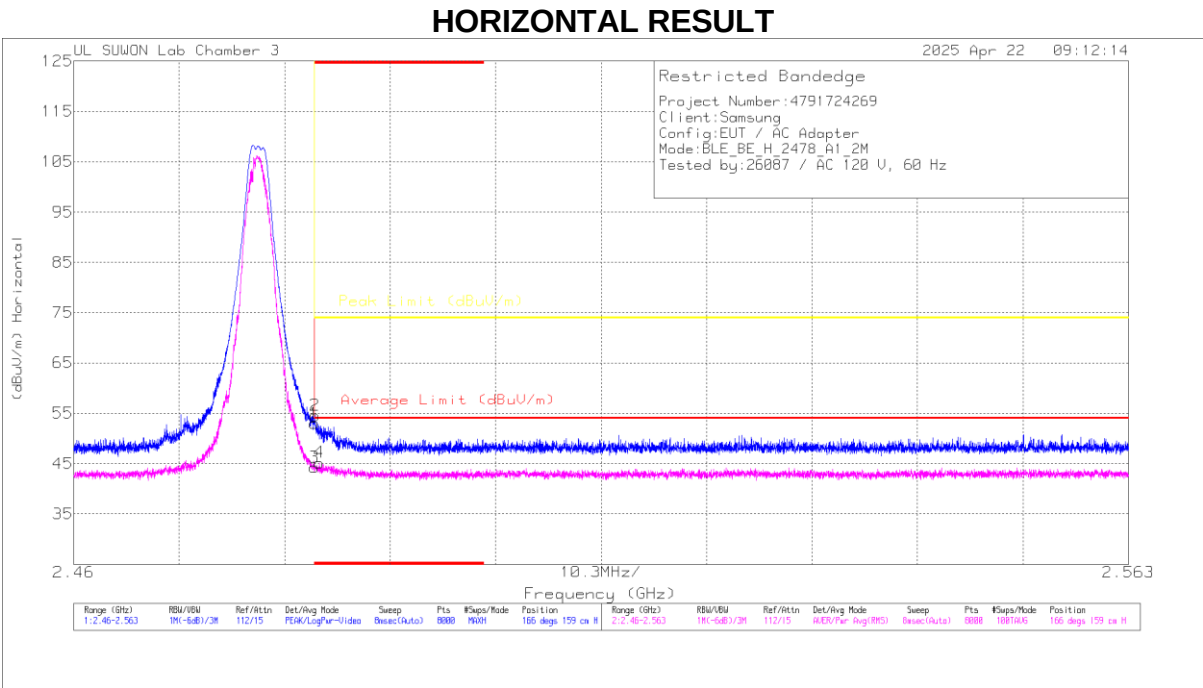
Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
ANT1	* 4.80415	41.81	PK2	34.30	-29.80	0.00	46.31	-	-	74.00	-27.69	123	387	H
	* 4.80373	31.34	MAV1	34.30	-29.80	2.01	37.85	54.00	-16.15	-	-	123	387	H
	* 4.80385	43.43	PK2	34.30	-29.80	0.00	47.93	-	-	74.00	-26.07	2	148	V
	* 4.80363	34.48	MAV1	34.30	-29.80	2.01	40.99	54.00	-13.01	-	-	2	148	V
	7.202	35.03	PK2	35.80	-25.70	0.00	45.13	-	-	74.00	-28.87	128	323	H
	7.205	37.10	PK2	35.80	-25.70	0.00	47.20	-	-	74.00	-26.80	166	104	V
	9.607	32.53	PK2	36.70	-21.60	0.00	47.63	-	-	74.00	-26.37	0	100	H
	9.608	33.04	PK2	36.70	-21.70	0.00	48.04	-	-	74.00	-25.96	224	101	V
ANT1	* 4.88072	42.53	PK2	34.20	-30.60	0.00	46.13	-	-	74.00	-27.87	116	275	H
	* 4.87973	32.14	MAV1	34.20	-30.50	2.01	37.85	54.00	-16.15	-	-	116	275	H
	* 4.88039	43.08	PK2	34.20	-30.60	0.00	46.68	-	-	74.00	-27.32	11	146	V
	* 4.87978	33.84	MAV1	34.20	-30.50	2.01	39.55	54.00	-14.45	-	-	11	146	V
	* 7.31971	34.82	PK2	35.80	-25.20	0.00	45.42	-	-	74.00	-28.58	122	386	H
	* 7.31949	23.42	MAV1	35.80	-25.20	2.01	36.03	54.00	-17.97	-	-	122	386	H
	* 7.3192	35.67	PK2	35.80	-25.20	0.00	46.27	-	-	74.00	-27.73	160	118	V
	* 7.3194	24.12	MAV1	35.80	-25.20	2.01	36.73	54.00	-17.27	-	-	160	118	V
	9.759	32.36	PK2	36.90	-21.30	0.00	47.96	-	-	74.00	-26.04	0	100	H
	9.764	32.83	PK2	36.90	-21.20	0.00	48.53	-	-	74.00	-25.47	209	104	V
ANT1	* 4.95993	39.92	PK2	34.30	-30.40	0.00	43.82	-	-	74.00	-30.18	121	400	H
	* 4.95945	29.68	MAV1	34.30	-30.40	2.01	35.59	54.00	-18.41	-	-	121	400	H
	* 4.95988	42.04	PK2	34.30	-30.40	0.00	45.94	-	-	74.00	-28.06	168	377	V
	* 4.95972	32.22	MAV1	34.30	-30.40	2.01	38.13	54.00	-15.87	-	-	168	377	V
	* 7.44047	35.55	PK2	35.70	-25.00	0.00	46.25	-	-	74.00	-27.75	120	386	H
	* 7.43936	23.85	MAV1	35.70	-25.00	2.01	36.56	54.00	-17.44	-	-	120	386	H
	* 7.43924	35.59	PK2	35.70	-25.00	0.00	46.29	-	-	74.00	-27.71	153	106	V
	* 7.43933	24.92	MAV1	35.70	-25.00	2.01	37.63	54.00	-16.37	-	-	153	106	V
	9.918	33.88	PK2	37.10	-21.30	0.00	49.68	-	-	74.00	-24.32	0	100	H
	9.916	32.12	PK2	37.10	-21.20	0.00	48.02	-	-	74.00	-25.98	209	278	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

10.1.2. TX ABOVE 1 GHz BLUETOOTH LE 2 Mbps_ANT1

BANDEDGE (WORST CASE: 2478 MHz, ANT1)



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	* 2.4835	45.48	Pk	32.4	-24.9	0	52.98	-	-	74	-21.02	166	159	H
2	* 2.48354	47.06	Pk	32.4	-24.9	0	54.56	-	-	74	-19.44	166	159	H
3	* 2.4835	32.01	RMS	32.4	-24.9	4.78	44.29	54	-9.71	-	-	166	159	H
4	* 2.48399	32.93	RMS	32.4	-24.9	4.78	45.21	54	-8.79	-	-	166	159	H

* - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

BANDEDGE TEST DATA

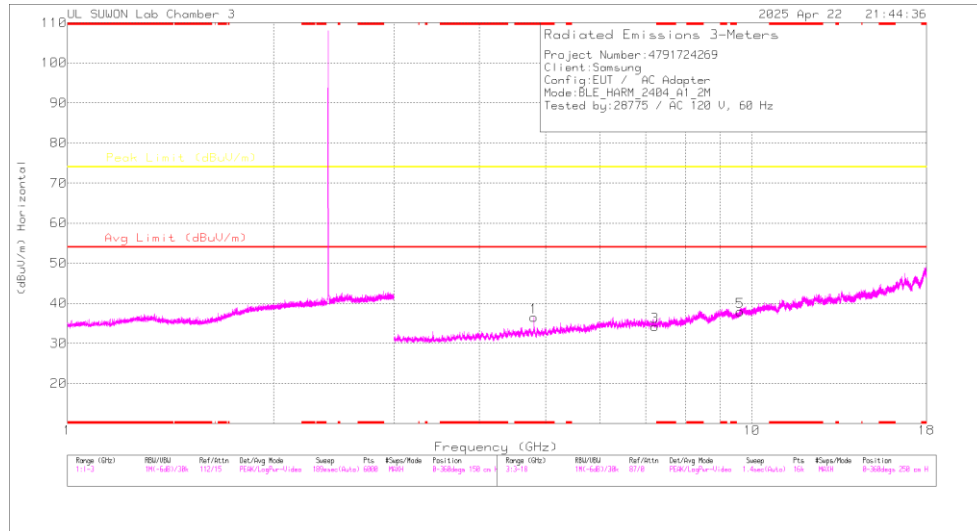
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2404	ANT1	* 2.39	39.65	Pk	32.10	-24.90	0.00	46.85	-	-	74.00	-27.15	128	168	H
		* 2.38858	43.31	Pk	32.10	-25.00	0.00	50.41	-	-	74.00	-23.59	128	168	H
		* 2.39	29.62	RMS	32.10	-24.90	4.78	41.60	54.00	-12.40	-	-	128	168	H
		* 2.38489	31.72	RMS	32.10	-25.00	4.78	43.60	54.00	-10.40	-	-	128	168	H
		* 2.39	40.62	Pk	32.10	-24.90	0.00	47.82	-	-	74.00	-26.18	197	390	V
		* 2.37294	43.94	Pk	32.00	-25.00	0.00	50.94	-	-	74.00	-23.06	197	390	V
		* 2.39	30.25	RMS	32.10	-24.90	4.78	42.23	54.00	-11.77	-	-	197	390	V
		* 2.36971	31.89	RMS	32.00	-25.00	4.78	43.67	54.00	-10.33	-	-	197	390	V
2478	ANT1	* 2.4835	45.48	Pk	32.40	-24.90	0.00	52.98	-	-	74.00	-21.02	166	159	H
		* 2.48354	47.06	Pk	32.40	-24.90	0.00	54.56	-	-	74.00	-19.44	166	159	H
		* 2.4835	32.01	RMS	32.40	-24.90	4.78	44.29	54.00	-9.71	-	-	166	159	H
		* 2.48399	32.93	RMS	32.40	-24.90	4.78	45.21	54.00	-8.79	-	-	166	159	H
		* 2.4835	43.30	Pk	32.40	-24.90	0.00	50.80	-	-	74.00	-23.20	196	360	V
		* 2.48395	45.68	Pk	32.40	-24.90	0.00	53.18	-	-	74.00	-20.82	196	360	V
		* 2.4835	31.37	RMS	32.40	-24.90	4.78	43.65	54.00	-10.35	-	-	196	360	V
		* 2.48499	32.63	RMS	32.40	-24.90	4.78	44.91	54.00	-9.09	-	-	196	360	V

Note1. Pk - Peak detector, RMS - RMS detector

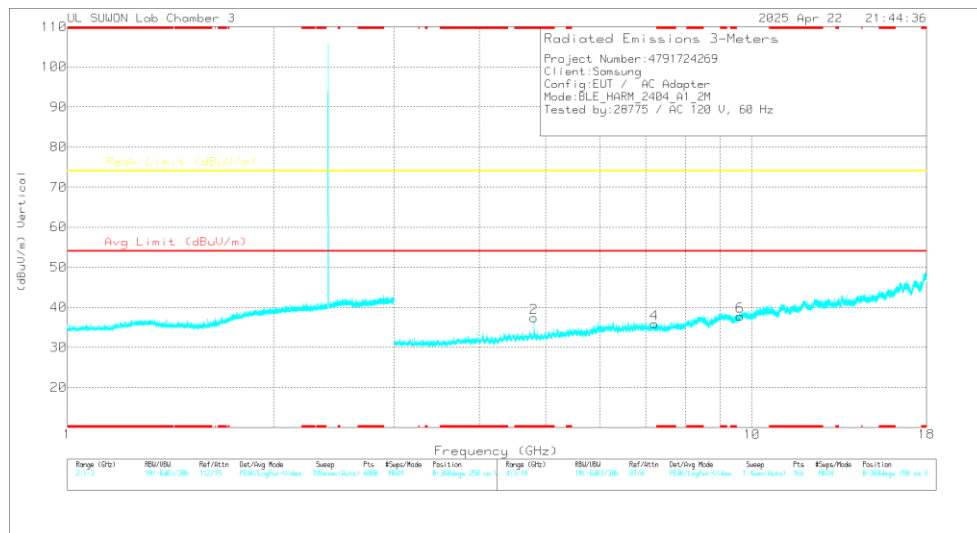
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

HARMONICS AND SPURIOUS EMISSIONS(WORST CASE: 2404 MHz, ANT1)

2404 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_HF_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
* 4.80703	40.18	PK2	34.3	-29.8	0	44.68	-	-	74	-29.32	123	386	H
* 4.80699	28.46	MAV1	34.3	-29.8	4.78	37.74	54	-16.26	-	-	123	386	H
* 4.80766	42.16	PK2	34.3	-29.8	0	46.66	-	-	74	-27.34	2	135	V
* 4.8071	30.25	MAV1	34.3	-29.8	4.78	39.53	54	-14.47	-	-	2	135	V
7.2107	35.45	PK2	35.8	-25.8	0	45.45	-	-	74	-28.55	120	383	H
7.21366	37.11	PK2	35.8	-25.7	0	47.21	-	-	74	-26.79	165	114	V
9.62032	32.64	PK2	36.7	-21.6	0	47.74	-	-	74	-26.26	0	100	H
9.61764	32.96	PK2	36.7	-21.6	0	48.06	-	-	74	-25.94	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

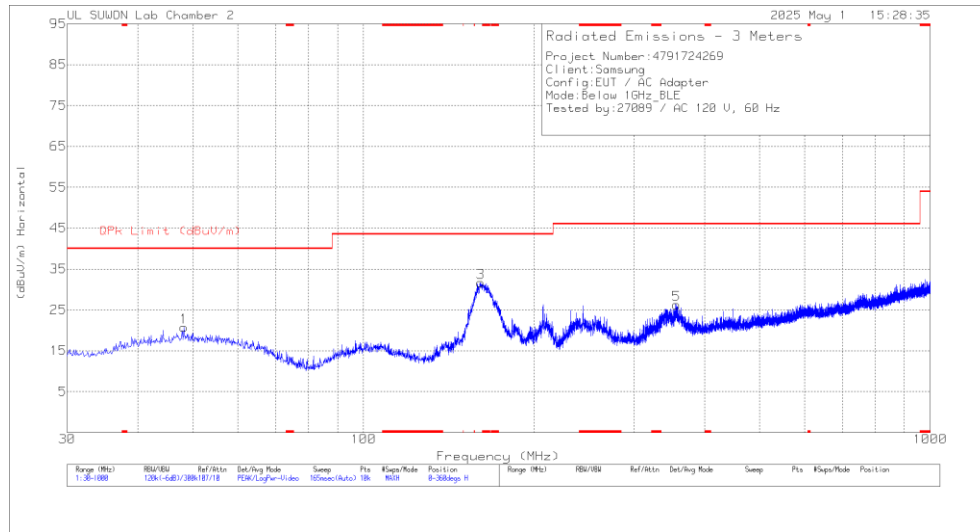
Freq. [MHz]	Antenna	Frequency [GHz]	Reading [dBuV]	Detector Mode	ANT Factor [dB/m]	Loss [dB]	DC Corr [dB]	Result [dBuV/m]	AV Limit [dBuV/m]	AV Margin [dB]	PK Limit [dBuV/m]	PK Margin [dB]	Azimuth [Degs]	Height [cm]	Polarity
2404	ANT1	* 4.80703	40.18	PK2	34.30	-29.80	0.00	44.68	-	-	74.00	-29.32	123	386	H
		* 4.80699	28.46	MAv1	34.30	-29.80	4.78	37.74	54.00	-16.26	-	-	123	386	H
		* 4.80766	42.16	PK2	34.30	-29.80	0.00	46.66	-	-	74.00	-27.34	2	135	V
		* 4.8071	30.25	MAv1	34.30	-29.80	4.78	39.53	54.00	-14.47	-	-	2	135	V
		7.211	35.45	PK2	35.80	-25.80	0.00	45.45	-	-	74.00	-28.55	120	383	H
		7.214	37.11	PK2	35.80	-25.70	0.00	47.21	-	-	74.00	-26.79	165	114	V
		9.620	32.64	PK2	36.70	-21.60	0.00	47.74	-	-	74.00	-26.26	0	100	H
		9.618	32.96	PK2	36.70	-21.60	0.00	48.06	-	-	74.00	-25.94	0	100	V
		* 4.87886	41.56	PK2	34.20	-30.60	0.00	45.16	-	-	74.00	-28.84	118	382	H
		* 4.87904	28.91	MAv1	34.20	-30.60	4.78	37.29	54.00	-16.71	-	-	118	382	H
2440	ANT1	* 4.88103	42.80	PK2	34.20	-30.60	0.00	46.40	-	-	74.00	-27.60	11	138	V
		* 4.87927	31.02	MAv1	34.20	-30.60	4.78	39.40	54.00	-14.60	-	-	11	138	V
		* 7.32135	34.81	PK2	35.80	-25.10	0.00	45.51	-	-	74.00	-28.49	117	354	H
		* 7.31429	23.13	MAv1	35.80	-25.20	4.78	38.51	54.00	-15.49	-	-	117	354	H
		* 7.31904	35.04	PK2	35.80	-25.20	0.00	45.64	-	-	74.00	-28.36	186	277	V
		* 7.31876	23.48	MAv1	35.80	-25.20	4.78	38.86	54.00	-15.14	-	-	186	277	V
		9.757	31.92	PK2	36.90	-21.30	0.00	47.52	-	-	74.00	-26.48	0	100	H
		9.758	32.41	PK2	36.90	-21.30	0.00	48.01	-	-	74.00	-25.99	0	100	V
		* 4.95668	40.12	PK2	34.30	-30.30	0.00	44.12	-	-	74.00	-29.88	126	379	H
		* 4.95599	28.23	MAv1	34.30	-30.40	4.78	36.91	54.00	-17.09	-	-	126	379	H
2478	ANT1	* 4.95717	41.36	PK2	34.30	-30.30	0.00	45.36	-	-	74.00	-28.64	185	169	V
		* 4.95508	29.59	MAv1	34.30	-30.40	4.78	38.27	54.00	-15.73	-	-	185	169	V
		* 7.43513	35.36	PK2	35.70	-25.00	0.00	46.06	-	-	74.00	-27.94	121	371	H
		* 7.43244	23.31	MAv1	35.70	-24.90	4.78	38.89	54.00	-15.11	-	-	121	371	H
		* 7.43258	35.29	PK2	35.70	-24.90	0.00	46.09	-	-	74.00	-27.91	158	108	V
		* 7.43285	23.67	MAv1	35.70	-25.00	4.78	39.15	54.00	-14.85	-	-	158	108	V
		9.909	32.60	PK2	37.10	-21.30	0.00	48.40	-	-	74.00	-25.60	0	100	H
		9.915	32.30	PK2	37.10	-21.40	0.00	48.00	-	-	74.00	-26.00	0	100	V

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

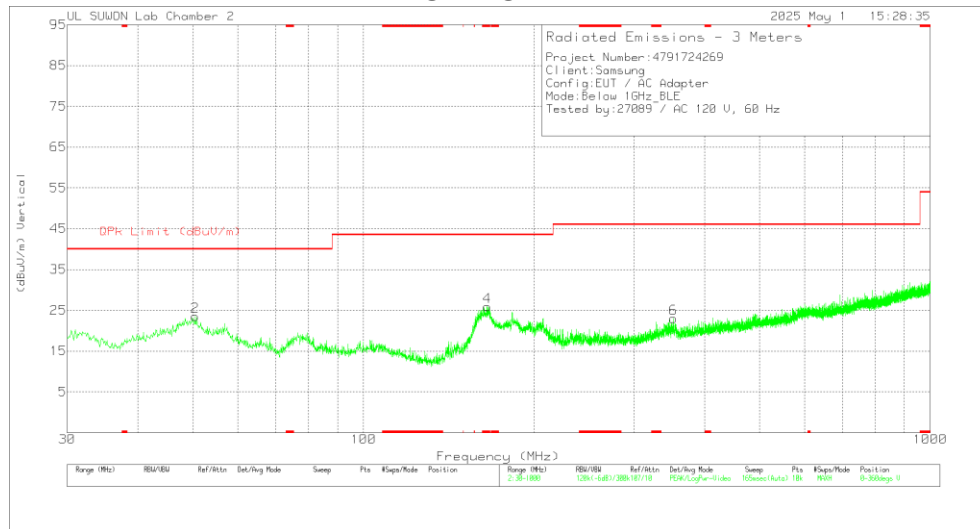
Note2. * - indicates frequency in 47 CFR Pt 15 / IC RSS-Restricted Band

10.2. 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)	DC Corr (dB)	Corrected Reading (dBuV/m)	OPK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	48.236	32.56	Pk	19.8	-31.6	0	20.76	40	-19.24	0-360	300	H
3	160.853	48.29	Pk	14.3	-30.9	0	31.69	43.52	-11.83	0-360	100	H
5	356.987	35.94	Pk	20.4	-30.1	0	26.24	46.02	-19.78	0-360	100	H
2	50.467	35.36	Pk	19.8	-31.7	0	23.46	40	-16.54	0-360	100	V
4	* 165.412	42.4	Pk	14.4	-30.9	0	25.9	43.52	-17.62	0-360	100	V
6	352.331	32.3	Pk	20.8	-30.1	0	23	46.02	-23.02	0-360	100	V

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

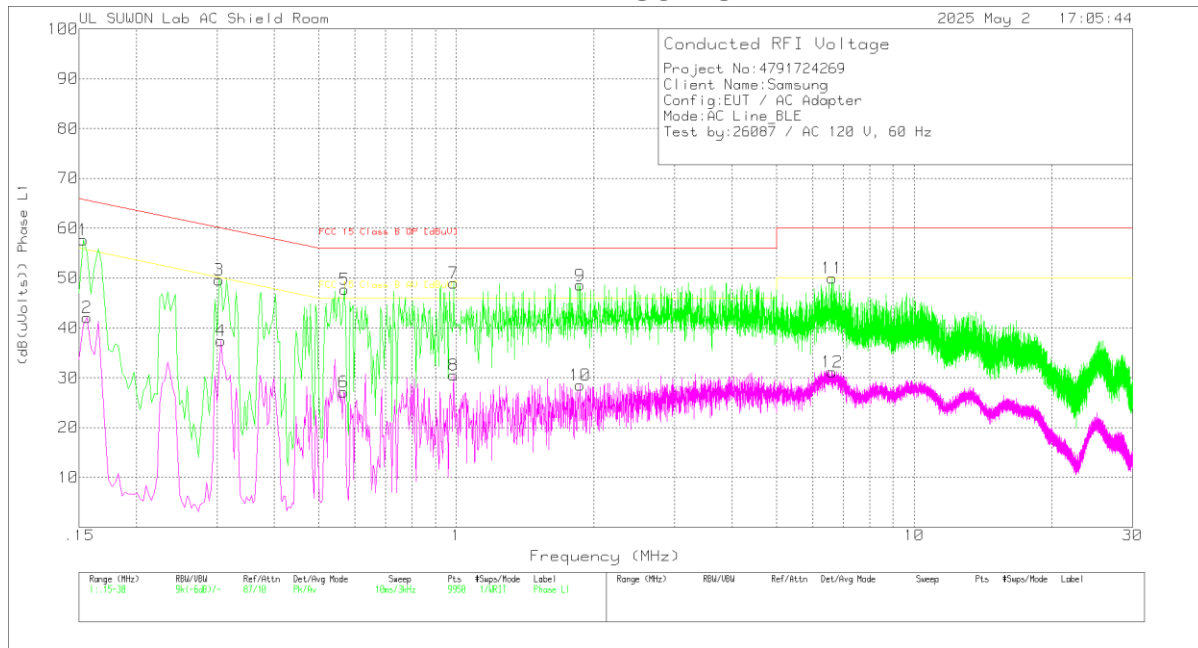
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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_With 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	.153	47.81	Pk	9.8	.1	57.71	65.84	-8.13	-	-
2	.156	32.22	Av	9.8	.1	42.12	-	-	55.67	-13.55
3	.303	39.85	Pk	9.7	.1	49.65	60.16	-10.51	-	-
4	.306	27.67	Av	9.7	.1	37.47	-	-	50.08	-12.61
5	.57	37.81	Pk	9.8	.1	47.71	56	-8.29	-	-
6	.567	17.27	Av	9.8	.1	27.17	-	-	46	-18.83
7	.987	39.08	Pk	9.8	.1	48.98	56	-7.02	-	-
8	.987	20.58	Av	9.8	.1	30.48	-	-	46	-15.52
9	1.866	38.75	Pk	9.7	.1	48.55	56	-7.45	-	-
10	1.863	18.72	Av	9.7	.1	28.52	-	-	46	-17.48
11	6.621	39.97	Pk	9.8	.2	49.97	60	-10.03	-	-
12	6.627	21.11	Av	9.8	.2	31.11	-	-	50	-18.89

Pk - Peak detector

Av - Average detection

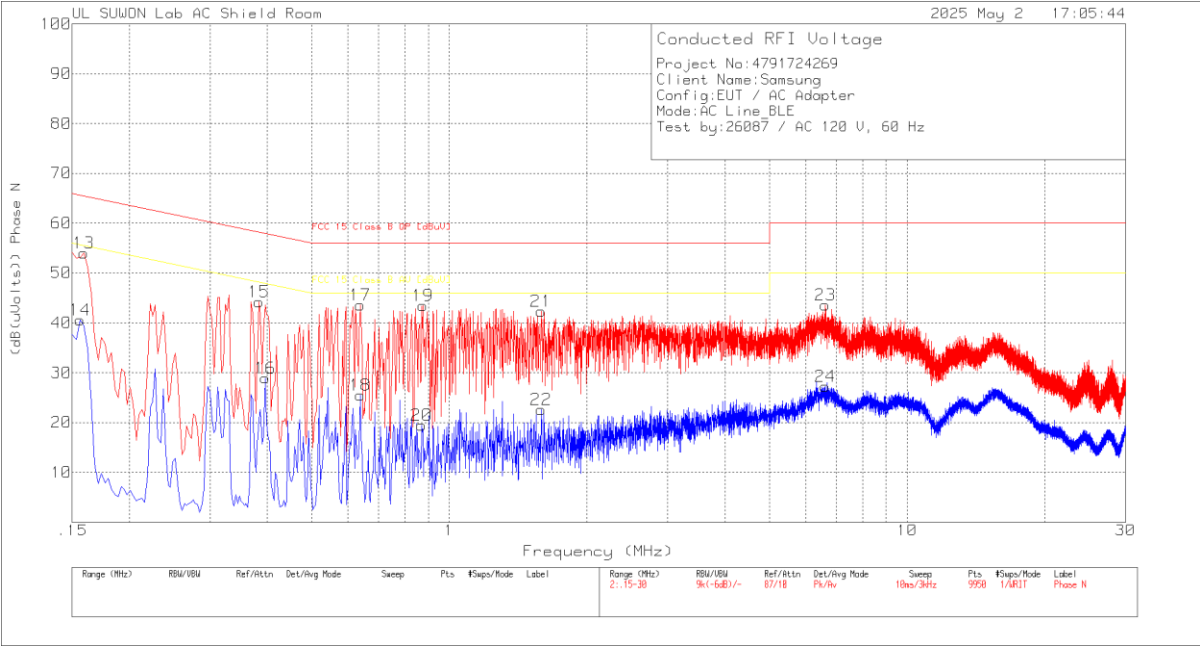
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With 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)
.15315	38.29	Qp	9.8	.1	48.19	65.83	-17.64	-	-
.57075	32.87	Qp	9.8	.1	42.77	56	-13.23	-	-
.98775	31.4	Qp	9.8	.1	41.3	56	-14.7	-	-
1.86675	31.28	Qp	9.7	.1	41.08	56	-14.92	-	-

Qp - Quasi-Peak detector

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N [dB]	Cable Loss [dB]	Corrected Reading [dBuV]	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
13	.159	44.07	Pk	9.8	.1	53.97	65.52	-11.55	-	-
14	.156	30.7	Av	9.8	.1	40.6	-	-	55.67	-15.07
15	.384	34.35	Pk	9.8	.1	44.25	58.19	-13.94	-	-
16	.396	19.04	Av	9.8	.1	28.94	-	-	47.94	-19
17	.639	33.65	Pk	9.8	.1	43.55	56	-12.45	-	-
18	.639	15.58	Av	9.8	.1	25.48	-	-	46	-20.52
19	.876	33.52	Pk	9.8	.1	43.42	56	-12.58	-	-
20	.87	9.54	Av	9.8	.1	19.44	-	-	46	-26.56
21	1.587	32.58	Pk	9.7	.1	42.38	56	-13.62	-	-
22	1.587	12.83	Av	9.7	.1	22.63	-	-	46	-23.37
23	6.633	33.6	Pk	9.8	.2	43.6	60	-16.4	-	-
24	6.633	17.3	Av	9.8	.2	27.3	-	-	50	-22.7

Pk - Peak detector
Av - Average detection

END OF TEST REPORT