

CERTIFICATION TEST REPORT

Report Number. : S-4792147635-E10V2

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

Model : SC-57G, SCG41

FCC ID : A3LSMF971JPN

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

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

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Revision History

Rev.	Issue Date	Revisions	Presented By
V1	2026-05-19	Initial issue	Dexter(Hyunsik) Yun
V2	2026-05-29	Updated to address TCB's question	Dexter(Hyunsik) Yun

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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 and UWB

MODEL NUMBER: SC-57G, SCG41

SERIAL NUMBER: R3GL3080E7Z, R3GL3080EJF (RADIATED, Spot-check);

DATE TESTED: 2026-04-01 ~ 2026-05-18

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

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.

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1.1. INTRODUCTION OF TEST DATA REUSE

This report references test data from original model: SM-F971U (FCC 47 CFR Part 15).

This data reuse has been conducted in accordance with KDB 484596 D01 Referencing Test Data v03 criteria, and RF performance equivalence between the two models (SM-F971U/U1 and SC-57G) has been verified through spot-check measurements.

The applicant takes full responsibility that the test data referenced in this report represent compliance for this FCC.

1.2. DIFFERENCE

Key differences between SM-F971U and SC-57G:

1. RF/Cellular Circuit Modifications:

The cellular band functionality has been modified through a combination of firmware changes and component replacement and depopulation. The hardware changes consist solely of component replacement and depopulation on the main board, with no changes to the circuit board layout.

For detailed change information, please refer to the "FCC Data Reuse Inquiry" document.

2. Common Elements:

- The SC-57G WIFI block diagram and antenna structure remain identical to the SM-F971U.
- All other aspects including form factors, materials, functions, PCB layouts, and common components are the same between both models.

1.3. DEVIATION CRITERIA

1. RF spot-check justification based on worst-case configuration per KDB 484596 D01 Referencing Test Data v03 Section 3.2
 - Spot-check measurements shall be made in correspondence to the worst-case scenario reported in the reference device filing, i.e., for those conditions that are the closest to non-compliance.
 - For EMC compliance test data (e.g., spurious emissions limits), the deviation between the variant and the parent model, for both field and power quantities, is expressed as:

$$d_{dB} = |V_{dB} - R_{dB}|$$

where V_{dB} is the variant spot-check level in dB, and R_{dB} is the corresponding reference measurement level in dB for the parent model. The spot-check will be deemed acceptable when:

$$d_{dB} \leq d_{dBmax}$$

where d_{dBmax} is the maximum deviation d_{dB} allowed for the EMC data for the spot-check to be considered acceptable. The definition of d_{dBmax} is based on "how far" the reference data R_{dB} is from the compliance threshold C_{dB} (also expressed in dB), for the test under consideration. More specifically, if M_{dB} is the margin in dB from the compliance limit, expressed as

$$M_{dB} = |C_{dB} - R_{dB}|$$

then d_{dBmax} is defined as a function of M_{dB} , which increases linearly from 3 dB to 6 dB, according to:

$$d_{dBmax}(M_{dB}) = \begin{cases} (3 + M_{dB}/20) \text{ dB}, & \text{for } 0 \leq M_{dB} \leq 60 \text{ dB} \\ 6 \text{ dB}, & \text{for } M_{dB} > 60 \text{ dB} \end{cases}$$

2. The conducted powers of the variant model will be spot checked to be within the tune-up tolerance. Where relevant, the following sample calculation is provided:

$$\text{CRITERIA} = 3 + (\text{Test limit} - \text{Measured original value})/20$$

$$3 + (54 \text{ dBuV/m} - 41.02 \text{ dBuV/m})/20 = 3.65 \text{ dB}$$

1.4. SPOT-CHECK VERIFICATION DATA (Worst case of the radiated fundamental power, band-edge and spurious emissions)

Band	Test Item	Worst Mode	Frequency	Test Limit	Reference model	Variant model	Deviation	Criteria Value	Remark
					SM-F971U Results	SC-57G Results			
DTS	BANDEDGE	802.11g_2462_MIMO	2462 MHz	54.00 dBuV/m	50.92 dBuV/m	50.08 dBuV/m	-0.84 dB	3.15 dB	
	RSE	802.11g_2437_MIMO	4874 MHz	54.00 dBuV/m	34.37 dBuV/m	32.42 dBuV/m	-1.95 dB	3.98 dB	
	BANDEDGE	802.11n_HT20_2412_MIMO	2412 MHz	54.00 dBuV/m	51.79 dBuV/m	51.80 dBuV/m	0.01 dB	3.11 dB	
	RSE	802.11n_2437_MIMO	4874 MHz	54.00 dBuV/m	33.26 dBuV/m	31.95 dBuV/m	-1.31 dB	4.04 dB	
	BANDEDGE	802.11be_EHT20_2462_SU_MIMO	2462 MHz	54.00 dBuV/m	51.53 dBuV/m	51.72 dBuV/m	0.19 dB	3.12 dB	
	RSE	802.11be_EHT20_2437_52T_RU37_MIMO	4874 MHz	54.00 dBuV/m	33.73 dBuV/m	32.23 dBuV/m	-1.50 dB	4.01 dB	
NII (6GHz legacy)	5	BANDEDGE	802.11a_5935_MIMO_SP(integ.)	5935 MHz	68.00 dBuV/m	65.56 dBuV/m	64.33 dBuV/m	-1.23 dB	3.12 dB
		RSE	802.11a_6175_MIMO_SP	12350 MHz	54.00 dBuV/m	43.54 dBuV/m	42.19 dBuV/m	-1.35 dB	3.52 dB
	6	RSE	802.11a_6515_MIMO_LPI	13042 MHz	68.20 dBuV/m	52.11 dBuV/m	52.52 dBuV/m	0.41 dB	3.80 dB
	7	RSE	802.11a_6695_MIMO_SP	13390 MHz	54.00 dBuV/m	44.52 dBuV/m	46.00 dBuV/m	1.48 dB	3.47 dB
	8	BANDEDGE	802.11a_7115_MIMO_LPI(integ.)	7115 MHz	68.00 dBuV/m	65.03 dBuV/m	64.08 dBuV/m	-0.95 dB	3.15 dB
		RSE	802.11a_7115_MIMO_LPI	14230 MHz	68.20 dBuV/m	57.14 dBuV/m	53.87 dBuV/m	-3.27 dB	3.55 dB
NII (6GHz Wi-Fi 7)	5	BANDEDGE	802.11be_EHT20_5935_52T_RU37_MIMO_SP(integ.)	5935 MHz	68.00 dBuV/m	65.54 dBuV/m	64.91 dBuV/m	-0.63 dB	3.12 dB
		RSE	802.11be_EHT20_6175_52T_RU37_MIMO_SP	12335 MHz	54.00 dBuV/m	44.24 dBuV/m	42.68 dBuV/m	-1.56 dB	3.49 dB
	6	RSE	802.11be_EHT20_6515_52T_RU37_MIMO_LPI	13027 MHz	68.20 dBuV/m	52.11 dBuV/m	51.61 dBuV/m	-0.50 dB	3.80 dB
	7	RSE	802.11be_EHT20_6695_52T_RU37_MIMO_SP	13374 MHz	54.00 dBuV/m	45.91 dBuV/m	47.31 dBuV/m	1.40 dB	3.40 dB
	8	BANDEDGE	802.11be_EHT20_7115_SU_MIMO_LPI(integ.)	7115 MHz	68.00 dBuV/m	65.60 dBuV/m	63.54 dBuV/m	-2.06 dB	3.12 dB
		RSE	802.11be_EHT20_7115_52T_RU37_MIMO_LPI	14218 MHz	68.20 dBuV/m	53.32 dBuV/m	52.13 dBuV/m	-1.19 dB	3.74 dB
NFC	NFC Fund	Card Tag	13.56 MHz	84.00 dBuV/m	14.02 dBuV/m	16.25 dBuV/m	2.23 dB	6.00 dB	
	NFC RSE	Without Card Tag	1.241 MHz	25.75 dBuV/m	2.11 dBuV/m	-0.19 dBuV/m	-2.30 dB	4.18 dB	
Wireless Power Transmit	WPT Fund	Phone + Adaptor	0.11 MHz	46.66 dBuV/m	-3.32 dBuV/m	-2.22 dBuV/m	1.10 dB	5.50 dB	
	WPT RSE	Phone + Adaptor	1.688 MHz	23.08 dBuV/m	4.31 dBuV/m	1.62 dBuV/m	-2.69 dB	3.94 dB	
UWB	CH5	UWB Fund PK	SP1_BPRF9_Packet length 4	6500 MHz	0.00 dBm/50MHz	-5.93 dBm	-6.38 dBm	-0.45 dB	3.30 dB
		UWB Fund AV	SP3_BPRF9_Packet length 127	6500 MHz	-41.30 dBm/MHz	-42.89 dBm	-42.89 dBm	0.00 dB	3.08 dB
		UWB RSE	18-40G_ANT1	39856 GHz	-61.30 dBm	-62.42 dBm	-62.34 dBm	0.08 dB	3.06 dB
	CH9	UWB Fund PK	SP0_BPRF9_Packet length 127	8000 MHz	0.00 dBm/50MHz	-5.11 dBm	-4.24 dBm	0.87 dB	3.26 dB
		UWB Fund AV	SP3_HPRF25_Packet length 127	8000 MHz	-41.30 dBm/MHz	-42.95 dBm	-42.91 dBm	0.04 dB	3.08 dB
		UWB RSE	18-40G_ANT1	39976 GHz	-61.30 dBm	-62.32 dBm	-62.34 dBm	-0.02 dB	3.05 dB

1.5. REFERENCE DETAIL

Reference application that contains the reused reference data in the individual test reports:

Reference Model name (Application Type)	Reference Test Report	SC-57G Test Report
SM-F971U (Original Grant)	S-4792147575-E8 FCC Report DTS(b,g,n,be) WLAN S-4792147575-E13 FCC Report UNII 6GHz(a,ax,be) WLAN S-4792147575-E14 FCC Report NFC S-4792147575-E15 FCC Report WPT S-4792147575-E16 FCC Report UWB	Original: S-4792147635-E5_FCC Report DTS(802.11b) WLAN S-4792147635-E6_FCC Report BLE S-4792147635-E7_FCC Report BLE ASK S-4792147635-E8_FCC Report BT S-4792147635-E11_FCC Report DFS, CBP S-4792147635-E12_FCC Report VLP TPC Verification S-4792147635-E13_FCC Report DUAL Client Verification Spot-check: S-4792147635-E10_FCC Report Unlicensed Band Spot-check Partial: S-4792147635-E9_FCC Report UNII 5GHz(a,n,ac,ax,be) WLAN spot-check

1.6. DATA RE-USE TEST MODES

Spot-check test modes	Data Re-used
2.4 GHz WLAN	Partial(802.11b SISO Radiated Full-test)
Bluetooth BDR&EDR	Full-test
Bluetooth LE & ASK	Full-test
5 GHz WLAN	Partial (tune-up change: Full-test / rest spot-check)
6 GHz WLAN	O
NFC	O
WPT	O
UWB	O

2. TEST METHODOLOGY

1. FCC 47 CFR Part 2.
2. FCC 47 CFR Part 15.
3. KDB 558074 D01 DTS Meas Guidance v05r02.
4. KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
5. KDB 987594 D02 U-NII 6 GHz EMC Measurement v03.
6. KDB 662911 D01 Multiple Transmitter Output v02r01.
7. ANSI C63.10-2020.
8. FCC KDB 484596 D01: Referencing Test Data v03.
9. KDB 680106 D01 Wireless Power Transfer v04.
10. KDB 393764 D01 UWB FAQ v02r01.

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. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

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:

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

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
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 RULE

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 and UWB. This test report addresses the unlicensed band operational mode.

Representative model	Comparison Criteria	Derivative model
		SCG41
SC-57G	Hardware	Identical
	Software	The UI changed according to Service Provider.

The SC-57G 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.

WiFi operating mode

Frequency rage	Mode	ANT 1	ANT 2
2.4 GHz (2412 MHz–2472 MHz)	802.11g MIMO	TX/RX	
	802.11n(HT20) MIMO	TX/RX	
	802.11be(EHT20) MIMO	TX/RX	

Frequency rage	Mode	ANT1	ANT2
6GHz (5935 MHz–7115 MHz)	802.11a SISO	TX/RX	
	802.11a MIMO	TX/RX	
	802.11ax SISO	TX/RX	
	802.11ax MIMO	TX/RX	
	802.11be SISO	TX/RX	
	802.11be MIMO	TX/RX	

NFC operating mode

- With & without tag

WPT operating mode

- Battery sharing

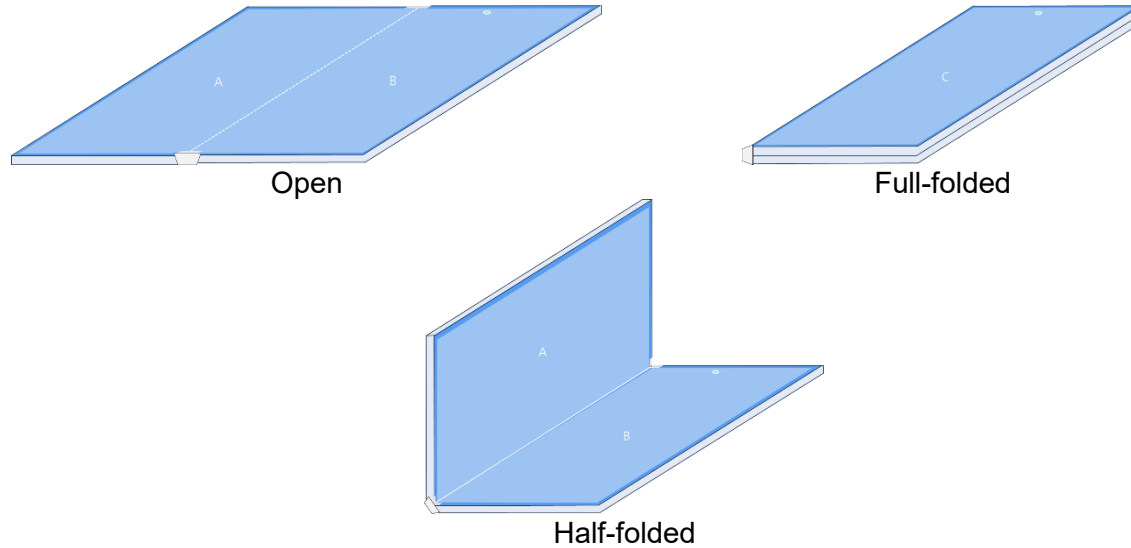
UWB operating mode

- Preamble ID (BPRF: 9 – 24 / HPRF: 25 – 32): BPRF: 9 / HPRF: 25

ANT	Channel	CONFIG	PRF Mode	Packet Length
Ant 1	5	SP0	BPRF 9	4
			HPRF 25	127
		SP1	BPRF 9	4
			HPRF 25	127
		SP3	BPRF 9	4
			HPRF 25	127
	9	SP0	BPRF 9	4
			HPRF 25	127
		SP1	BPRF 9	4
			HPRF 25	127
		SP3	BPRF 9	4
			HPRF 25	127

5.2. WORST-CASE CONFIGURATION AND MODE

The fundamental and radiated spurious emissions were investigated in three orthogonal orientations (X, Y, and Z) and foldable condition. The worst-case spot-check orientation for each band follows the worst-case axis identified from the original model.



5.3. 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

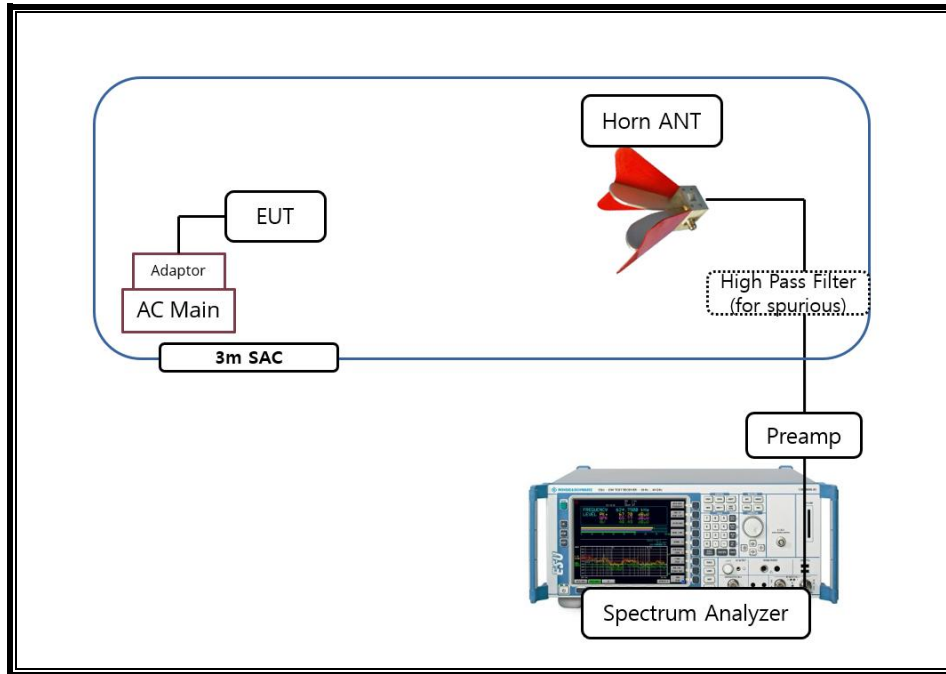
I/O CABLE

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

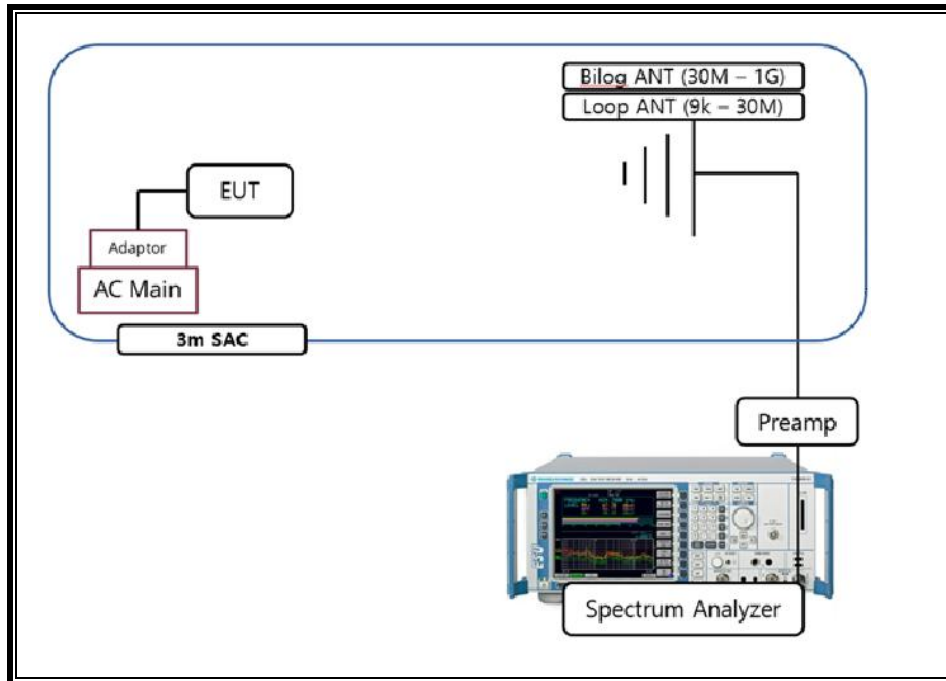
TEST SETUP

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

SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



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



6. MEASUREMENT METHOD

WLAN, WPT

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

UWB

Peak power and maximum average emissions: ANSI C63.10-2020, Section 10.3, 15.519(c)(e)

Radiated measurement procedure: ANSI C63.10-2020, Section 10.2 and Section 10.3

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, Loop, 9kHz-30MHz	R&S	HFH2-Z2E	101308	2027-10-27
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB 9163	749	2026-08-12
Antenna, Horn, 18 GHz	ETS	3117	00168717	2026-07-17
Antenna, Horn, 18 GHz	ETS	3117	00218957	2027-03-24
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	B&Z Technologies, LLC	BZR-01001800-231040-181515	23576	2026-07-22
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	KEYSIGHT	N9040B	MY60080268	2026-12-30
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
Bluetooth Tester	TESCOM	MTP300A	MTP300A010266	2026-07-22
Bluetooth Tester	TESCOM	TC-3000C	3000C000546	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A001	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A008	2026-07-22
Attenuator	PASTERNAK	PE7004-10	2	2026-07-22
Attenuator	PASTERNAK	PE7087-10	A009	2026-07-22
Power Splitter	MINI-CIRCUITS	WA1534	UL003	2026-12-29
Power Splitter	MINI-CIRCUITS	WA1534	UL004	2027-01-06
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2026-07-21
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2026-07-21
Spectrum Analyzer, 50 GHz	R&S	FSW 50	101538	2026-12-29
EMI Test Receive, 3 GHz	R&S	ESR 3	101832	2026-11-11
Notch Filter	Micro-Tronics	BRM50702-02	G037	2026-07-23
Notch Filter	Micro-Tronics	BRM50716-2	006	2026-07-23
Low Pass Filter 5GHz	Micro-Tronics	LPS17541	020	2026-07-21
High Pass Filter 3GHz	Micro-Tronics	HPM17543	20	2026-07-21
High Pass Filter 6GHz	Micro-Tronics	HPS17542	009	2026-07-21
LISN	R&S	ENV216	101836	2026-07-22
Termination	WEINSCHEL	M1406A	T08	2026-07-22
Attenuator	WEINSCHEL	WA76-30-21	A015	2026-07-22
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	

8. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result
15.205, 15.209	Radiated Spurious Emission	Average, < 54dBuV/m Peak, < 74dBuV/m	Radiated	Complies
15.407(b)	Undesirable Emissions	< -27 dBm/MHz e.i.r.p	Radiated	Complies
15.225	field strength	Refer to the test data section	Radiated	Complies
15.519(c)	Radiated Emissions Above 960 MHz	Refer to the table in 15.519(c) for details	Radiated	Complies

9. RADIATED TEST RESULTS

LIMITS

WLAN, WPT

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.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	162.0125 ~	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	167.17	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	167.72 ~ 173.2	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	240 ~ 285	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	322 ~ 335.4	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	399.90 ~ 410	3345.8 ~ 3358		
		608 ~ 614	3600 ~ 4400		
		960 ~ 1240			

FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

NFC

FCC §15.225

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110– 14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the filed strength from uV/m to dBuV/m is:

Limit (dBuV/m) = 20 log limit (uV/m)

UWB

▪ FCC Part 15.519 (c): The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in §15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency range (MHz)	EIRP in dBm
960-1610	-75.3
1610-1990	-63.3
1990-3100	-61.3
3100-10600	-41.3
Above 10600	-61.3

▪ FCC Part 15.519 (d): In addition to the radiated emission limits specified in the table in paragraph (c) of this section, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency range (MHz)	EIRP in dBm
1164-1240	-85.3
1559-1610	-85.3

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz and 150 cm for above 1 GHz. 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.

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.

WLAN

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

NFC

ANSI C63.10-2020

The EUT is an intentional radiator that incorporates a digital device. The highest fundamental frequency generated or used in the device is 13.56 MHz. The frequency range was investigated from 0.15 MHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater (1000MHz)

- a) Set the RBW = 100 Hz for the emissions below 150kHz
 - 9 kHz for the emissions between 150kHz and 30MHz
 - (The minimum RBW setting value for the Spectrum analyzer is 10 kHz)
 - 100 kHz for the emissions between 30MHz and 1GHz
 - (The minimum RBW setting value for the Spectrum analyzer is 120 kHz)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Sweep time = Auto;
- d) Detector = Peak;
- e) Trace mode = Max Hold;

WPT

ANSI C63.10: 2020

The EUT was tested from 9 kHz up to 30MHz.

- f) Set the RBW = 100 Hz for the emissions below 150kHz
9 kHz for the emissions between 150kHz and 30MHz
(The minimum RBW setting value for the Spectrum analyzer is 10 kHz)
- g) Set $VBW \geq 3 \times RBW$;
- h) Sweep time = Auto;
- i) Detector = Peak;
- j) Trace mode = Max Hold;

UWB

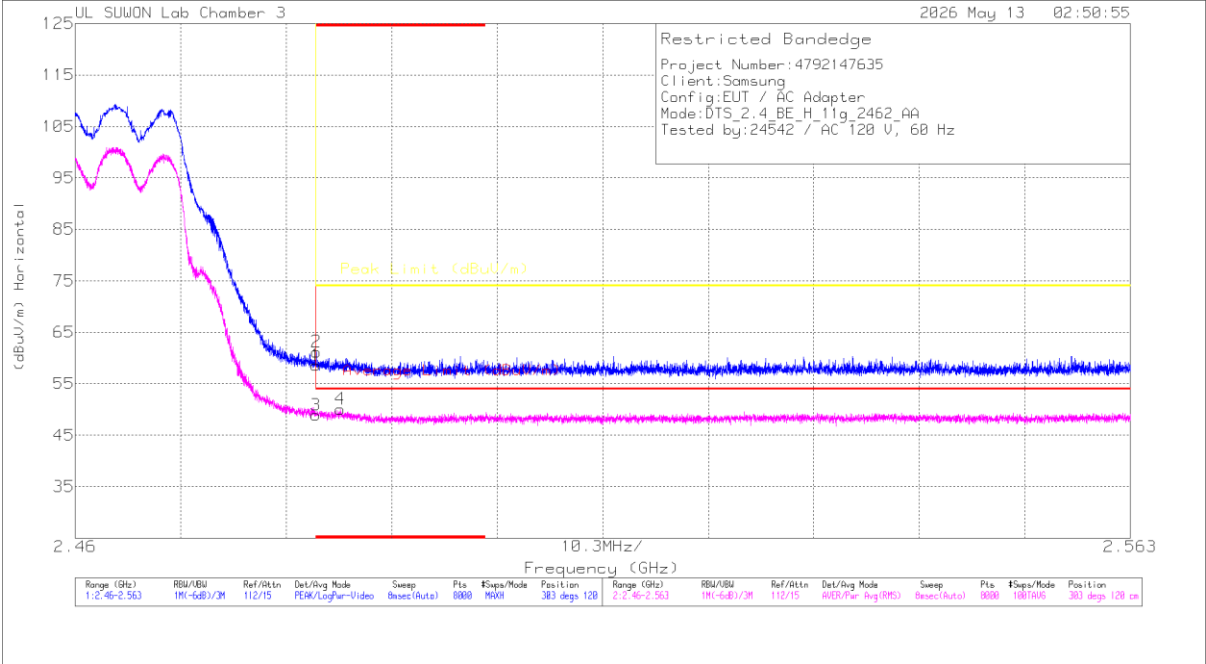
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz (120kHz for emissions in the GPS), then the video bandwidth is set to 3 MHz (500kHz for emissions in the GPS)

9.1. SPOT-CHECK TEST RESULTS

9.1.1. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

2TX MIMO(ANT1 + ANT2)

BANDEDGE (WORST CASE: 11 CHANNEL)



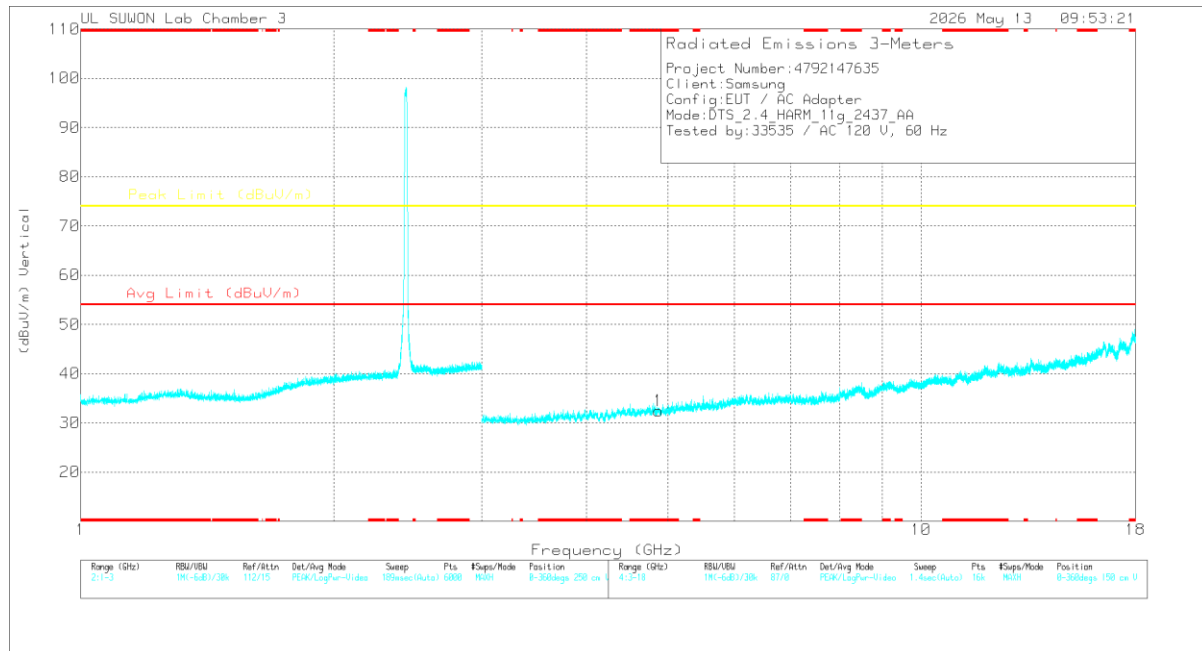
Trace Markers

Marker	Frequency (GHz)	Power Reading (dBm)	Det	Antenna_Factor (dBm)	Path Loss (dB)	DC Corr (dB)	Corrected Reading (dBm)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.4835	41.1	Pk	32.4	-14.9	0	58.6	-	-	74	-15.4	303	120	H
2	* 2.4835	43.69	Pk	32.4	-14.9	0	61.19	-	-	74	-12.81	303	120	H
3	* 2.4835	30.92	RMS	32.4	-14.9	.49	48.91	54	-5.09	-	-	303	120	H
4	* 2.48587	31.99	RMS	32.4	-14.9	.49	50.08	54	-3.92	-	-	303	120	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 6 CHANNEL)

CH 6 RESULTS 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

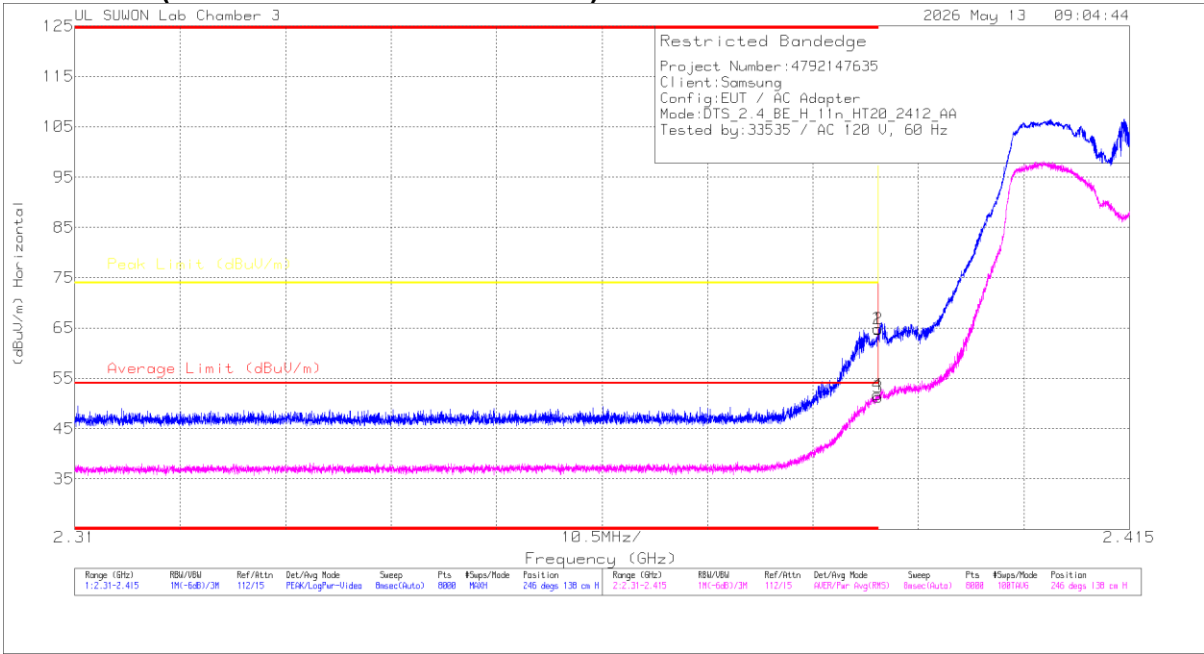
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	3GHz_HP_Pat h Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88407	39.49	PK2	34.2	-30.8	0	42.89	-	-	74	-31.11	311	115	V
* 4.86785	28.33	MAV1	34.2	-30.6	.49	32.42	54	-21.58	-	-	311	115	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAV1 - KDB558074 Option 1 Maximum RMS Average

9.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

2TX MIMO(ANT1 + ANT2)

BANDEDGE (WORST CASE: 1 CHANNEL)

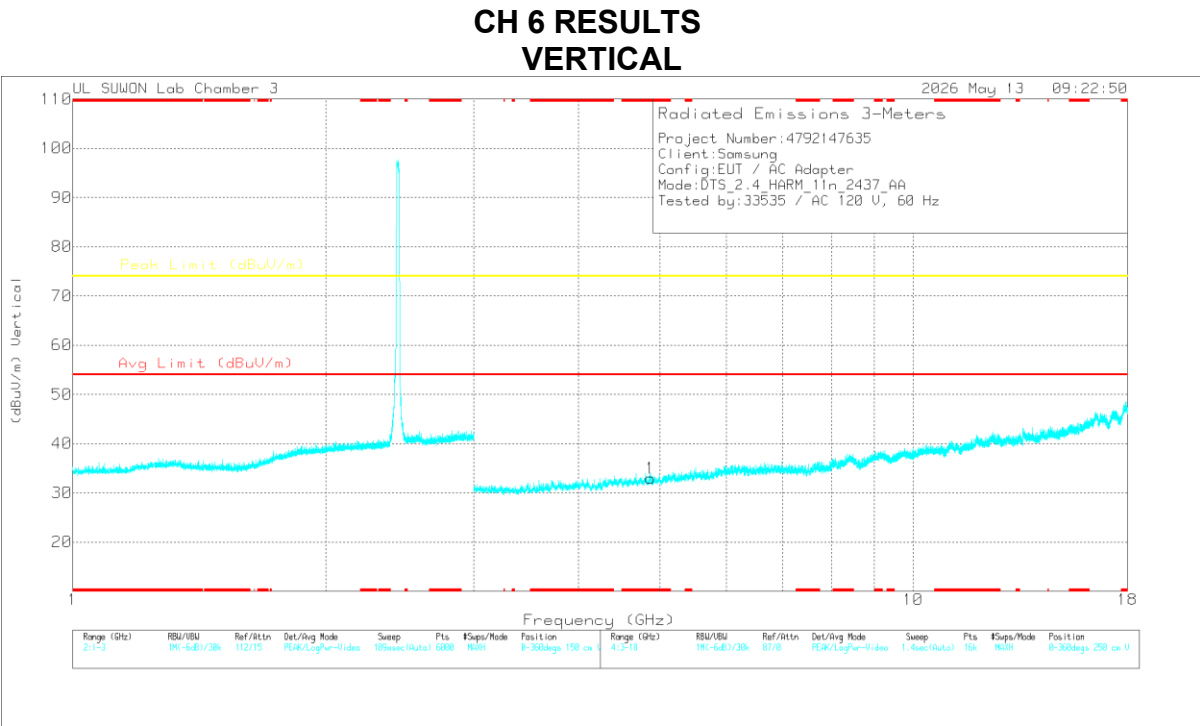


Trace Markers

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)	Acimuth (Degs)	Height (cm)	Polarity
1	* 2.39	57.58	PK	32.1	-24.9	0	64.78	-	-	74	-9.22	246	138	H
2	* 2.38998	57.64	PK	32.1	-24.9	0	64.84	-	-	74	-9.16	246	138	H
3	* 2.39	43.94	RMS	32.1	-24.9	.11	51.25	54	-2.75	-	-	246	138	H
4	* 2.38992	44.49	RMS	32.1	-24.9	.11	51.8	54	-2.2	-	-	246	138	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 6 CHANNEL)



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

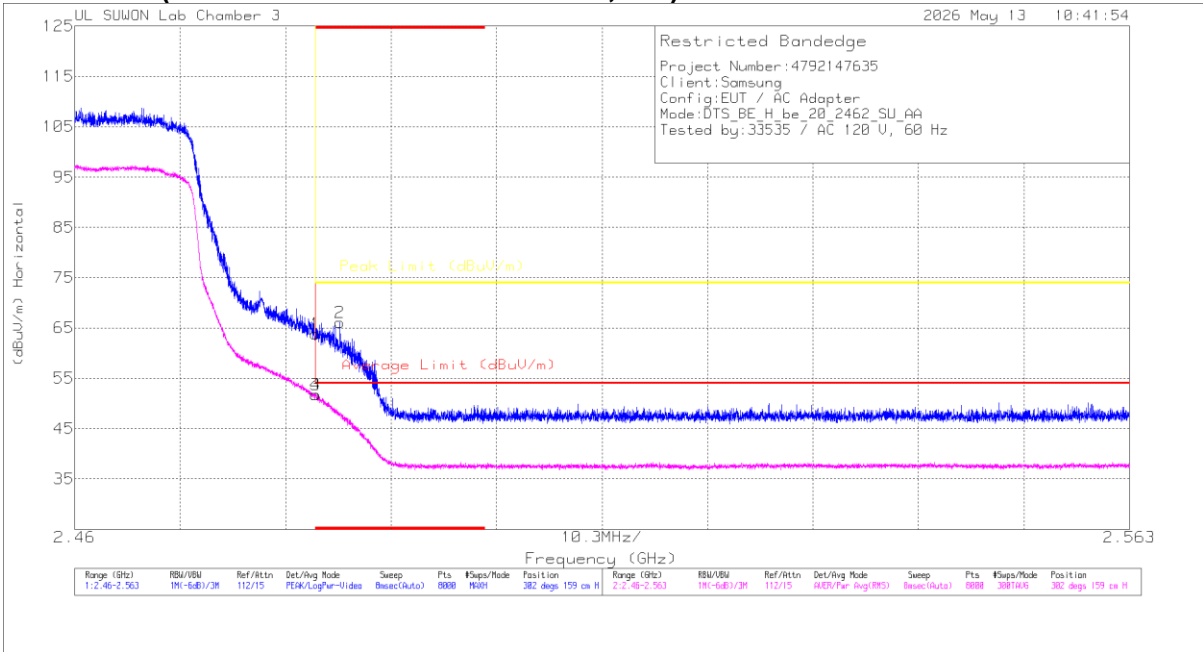
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Factor (dB/m)	3GHz_HP_Pat h Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87403	39.77	PK2	34.2	-30.7	0	43.27	-	-	74	-30.73	311	114	V
* 4.87088	28.34	MAV1	34.2	-30.7	.11	31.95	54	-22.05	-	-	311	114	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAV1 - KDB558074 Option 1 Maximum RMS Average

9.1.3. TX ABOVE 1 GHz 802.11be EHT20 MODE IN THE 2.4 GHz BAND

2TX MIMO(ANT1 + ANT2)

BANDEDGE (WORST CASE: 11 CHANNEL, SU)



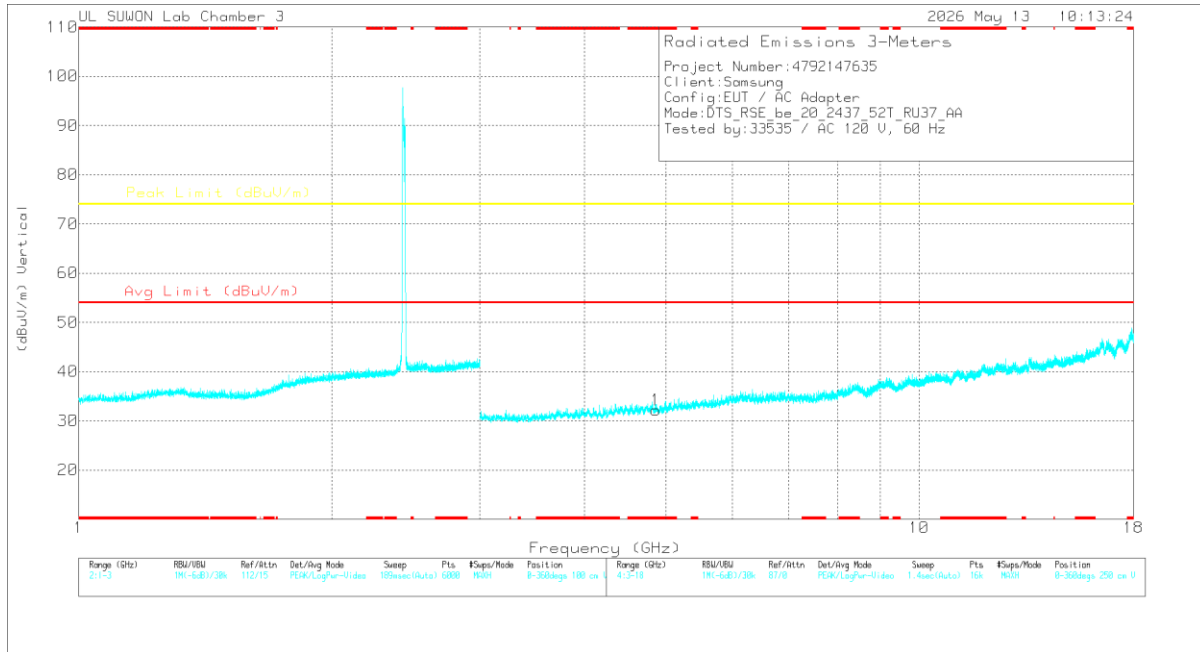
Trace Markers

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)	Acimuth (Degs)	Height (cm)	Polarity
1	* 2.4835	56.39	Pk	32.4	-24.9	0	63.99	-	-	74	-10.11	302	159	H
2	* 2.4859	56.43	Pk	32.4	-24.8	0	66.03	-	-	74	-7.97	302	159	H
3	* 2.4835	44.22	RMS	32.4	-24.9	0	51.72	54	-2.28	-	-	302	159	H
4	* 2.48353	44.2	RMS	32.4	-24.9	0	51.7	54	-2.3	-	-	302	159	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 6 CHANNEL, 37RU)

CH 6 RESULTS VERTICAL



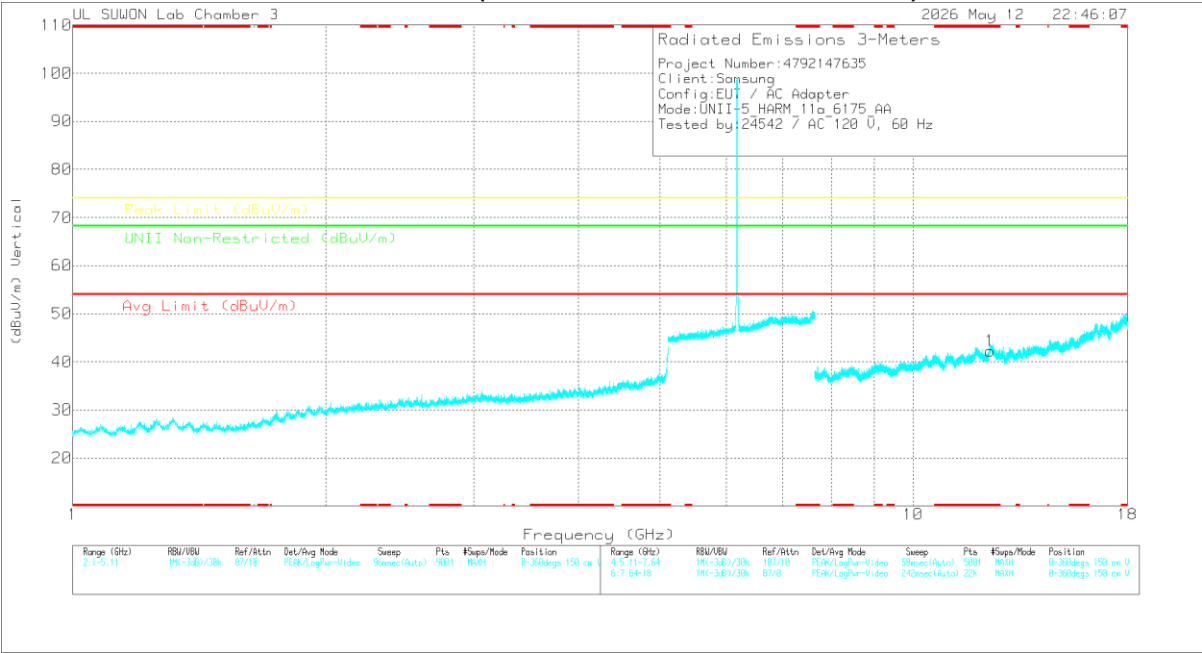
Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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
* 4.85893	39.78	PK2	34.2	-30.6	0	43.38	-	-	74	-30.62	311	108	V
* 4.85827	28.63	MAV1	34.2	-30.6	0	32.23	54	-21.77	-	-	311	108	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
MAV1 - KDB558074 Option 1 Maximum RMS Average

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 802.11a / 6175 MHz)



6175 MHz VERTICAL

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

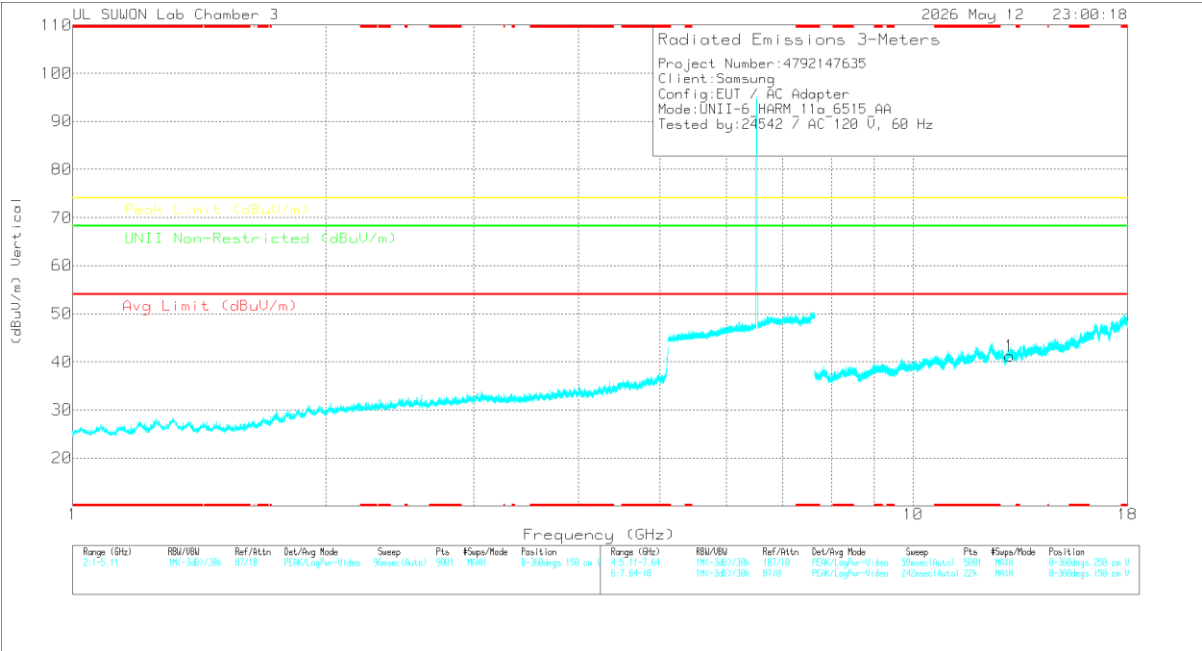
Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	Antenna Factor (dBm)	80Hz_HF_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Acctmth (Days)	Height (cm)	Polarity
* 12.34738	35.37	PK-U	39.2	-21.5	0	53.07	-	-	74	-20.93	-	-	178	101	V
* 12.34724	24.19	ADR	39.2	-21.5	.3	42.19	54	-11.81	-	-	-	-	178	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

9.1.5. TX ABOVE 1 GHz 2Tx LEGACY MODE IN THE 6 GHz(NII-6) BAND

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 802.11a / 6515 MHz)



6515 MHz VERTICAL

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

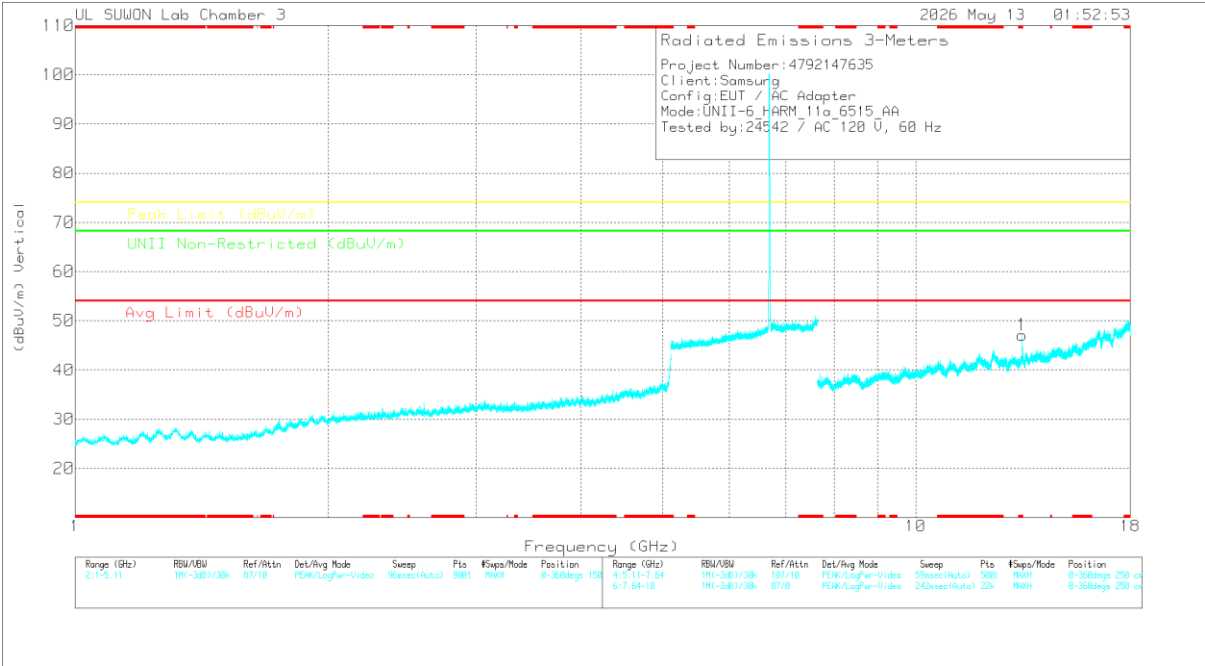
Radiated Emissions

Frequency (GHz)	Marker Reading (dBuV)	Det	Antenna Factor (dBm)	@GHz_HF_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (deg)	Height (cm)	Priority
13.0188	34.72	PK-U	39.2	-21.4	0	52.52	-	-	-	-	68.2	-15.68	125	100	V

PK-U - U-NII: Maximum Peak

9.1.6. TX ABOVE 1 GHz 2Tx LEGACY MODE IN THE 6 GHz(NII-7) BAND

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 802.11a / 6695 MHz)



6695 MHz VERTICAL

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

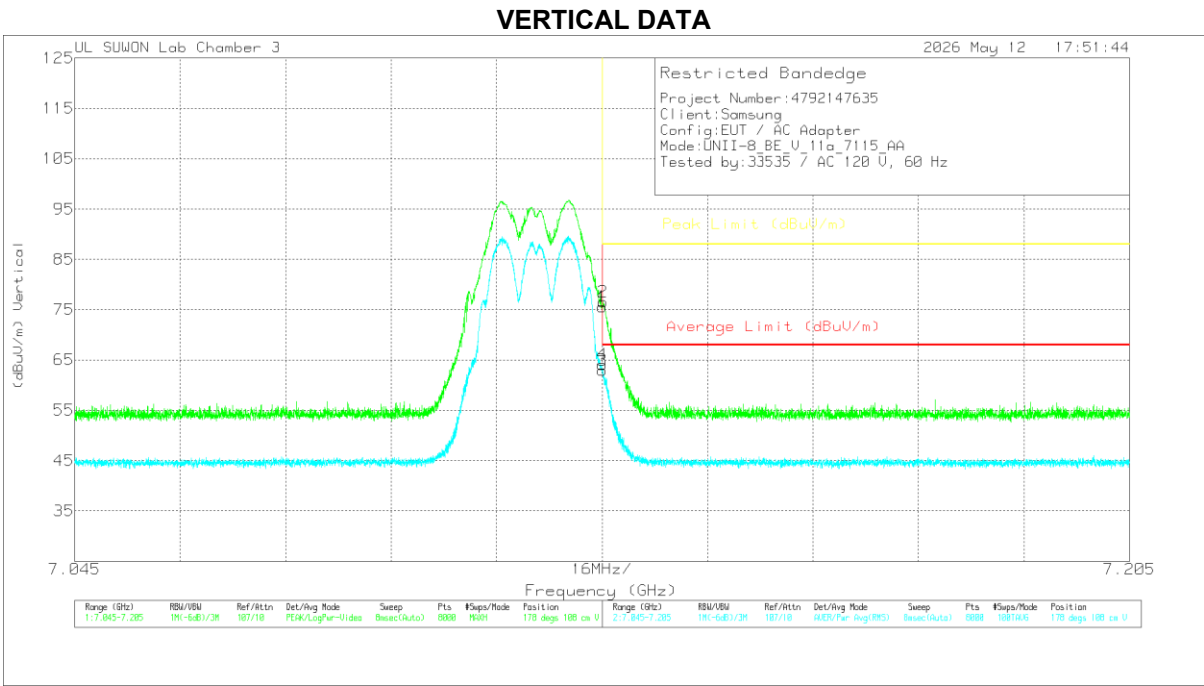
Radiated Emissions

Frequency (GHz)	Marker Reading (dBuV)	Dist	Antenna Factor (dBm)	BQHS_HF_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (m)	Height (m)	Polarity
* 13.39072	39.2	PK-U	39.1	-21.6	0	56.7	-	-	74	-17.3	-	-	342	100	V
* 13.39014	38.2	ADR	39.1	-21.6	-3	46	54	-8	-	-	-	-	342	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

9.1.7. TX ABOVE 1 GHz 2Tx LEGACY MODE IN THE 6 GHz(NII-8) BAND

BANDEDGE (WORST CASE: 802.11a / 7115 MHz)

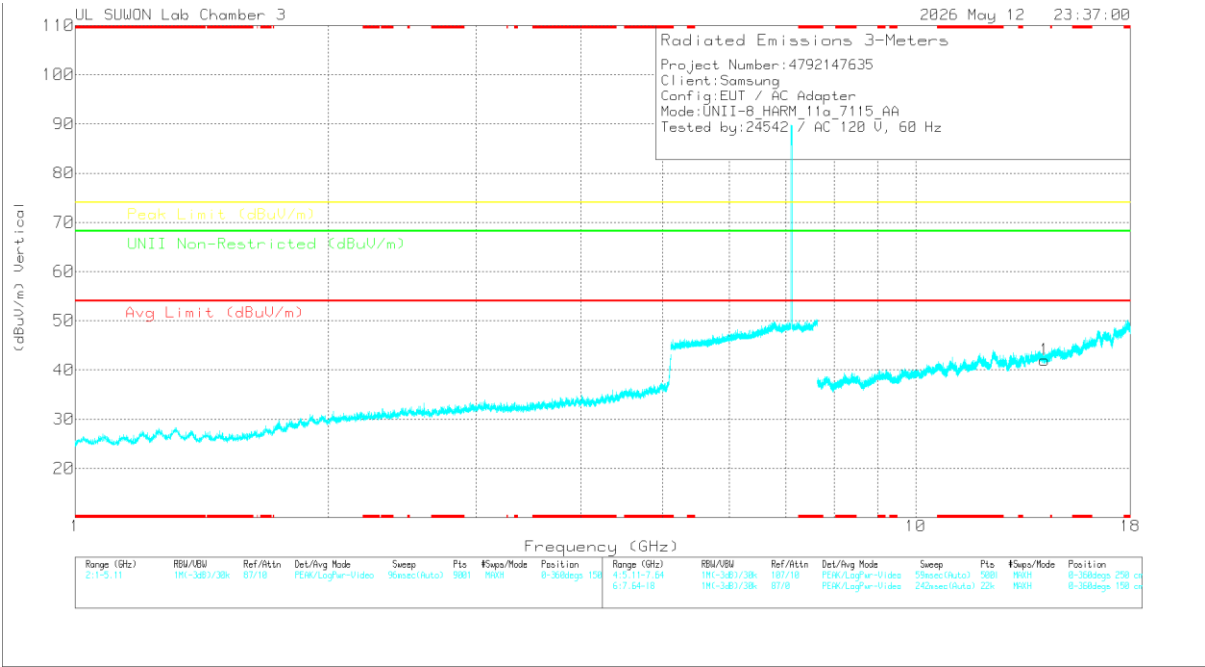


Trace Markers

Marker	Frequency (GHz)	Meas 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)	Aczmuth (Degs)	Height (cm)	Polarity
1	7.12501	56.2	Pk	35.9	-16.6	0	75.5	-	-	88	-12.5	178	108	V
2	7.12513	57.22	Pk	35.9	-16.6	0	76.52	-	-	88	-11.48	178	108	V
3	7.12501	43.33	RMS	35.9	-16.6	.3	62.93	68	-5.07	-	-	178	108	V
4	7.12503	44.48	RMS	35.9	-16.6	.3	64.08	68	-3.92	-	-	178	108	V

Pk - Peak detector
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 802.11a / 7115 MHz)



7115 MHz VERTICAL

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

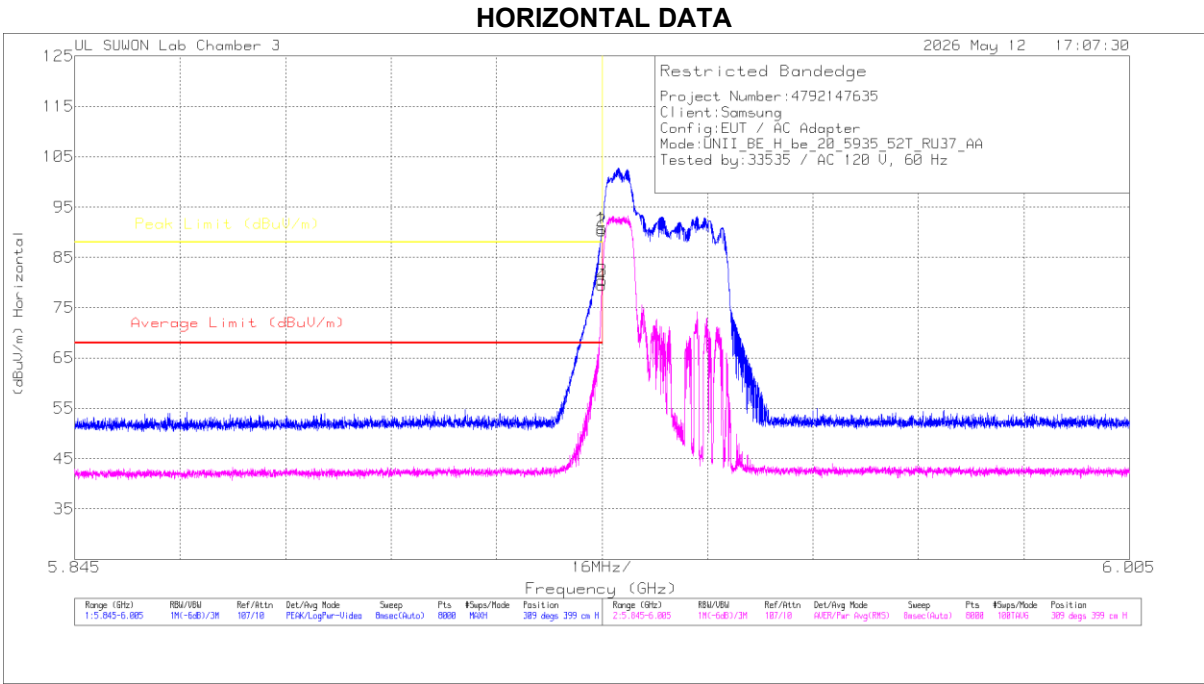
Radiated Emissions

Frequency (GHz)	Meter Reading (dBm)	Det	Antenna Factor (dBm)	RGHz_HF_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (deg)	Height (m)	Polarity
14.2272	37.17	PK-U	39.3	-22.6	0	53.87	-	-	-	-	68.2	-14.33	315	100	V

PK-U - U-NII: Maximum Peak

9.1.8. TX ABOVE 1 GHz 2Tx Wi-Fi 7 MODE IN THE 6 GHz(NII-5) BAND

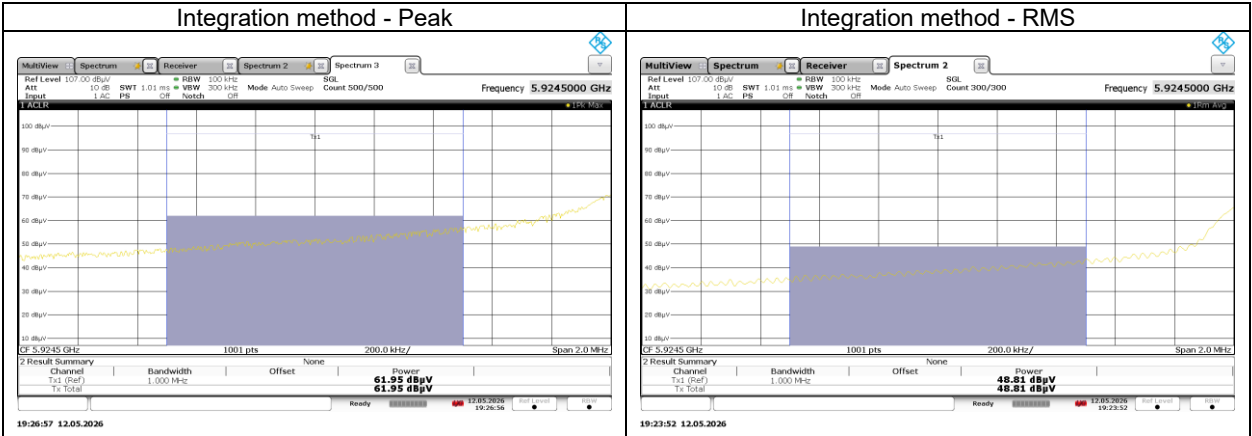
BANDEDGE (WORST CASE: 802.11be EHT20 / 5935 MHz / 37RU)



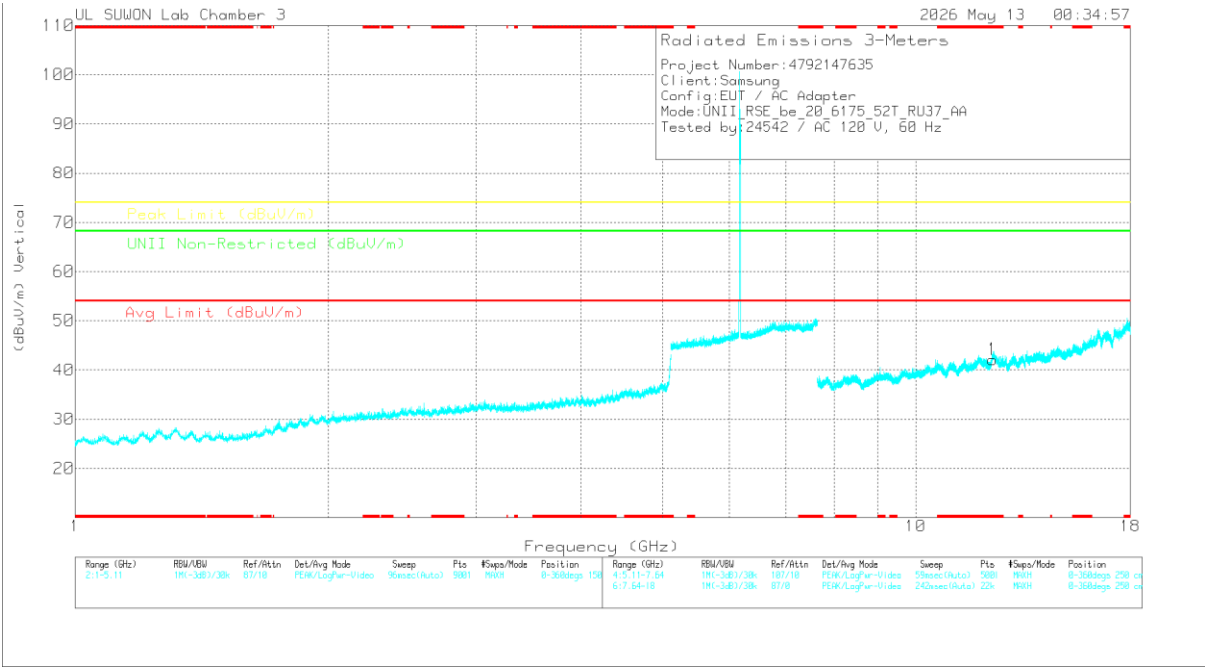
Trace Markers

Marker	Frequency (GHz)	Meas 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 (Degs)	Height (cm)	Polarity
1	5.92499 (Zoom scan)	61.95	Pk	35.5	-19.4	0	78.05	-	-	88	-9.95	309	399	H
3	5.92499 (Zoom scan)	48.81	RMS	35.5	-19.4	0	64.91	68	-3.09	-	-	309	399	H

Pk - Peak detector
RMS - RMS detection



HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 802.11be EHT20 / 6175 MHz / 37RU)



6175 MHz VERTICAL

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

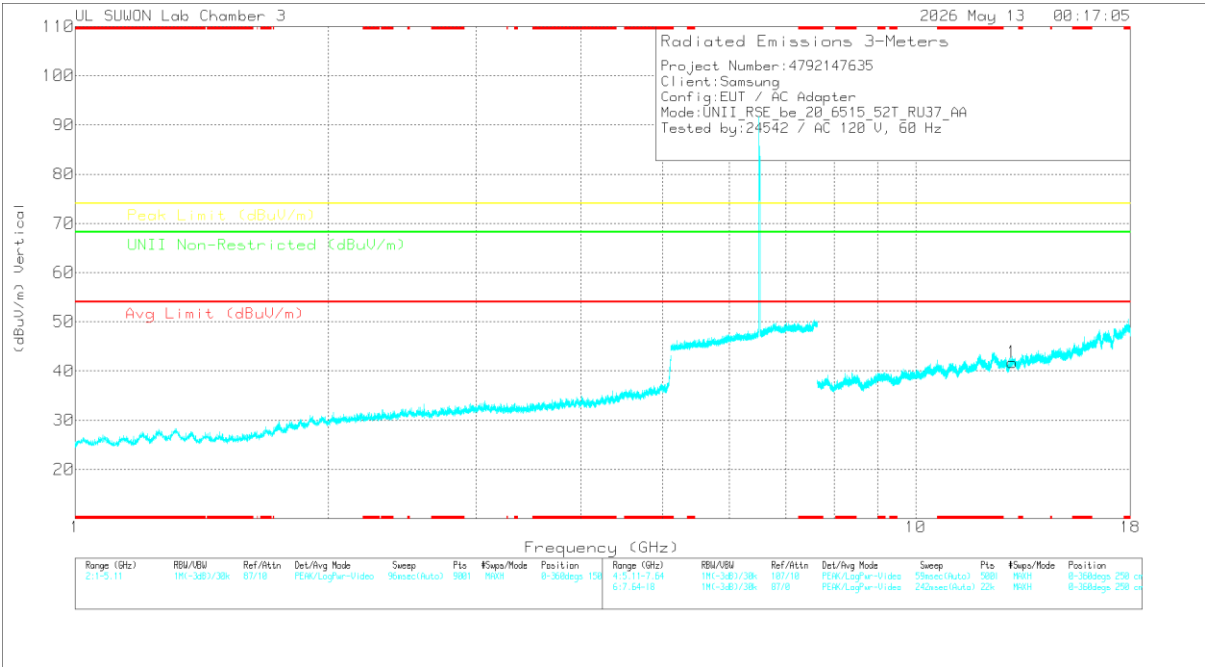
Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	Antenna Factor (dB/m)	802.11 RF Path Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (m)	Polarity
* 12.33529	36.29	PK-U	39.2	-21.4	0	54.09	-	-	74	-19.91	-	-	220	103	V
* 12.33529	24.88	ADR	39.2	-21.4	0	42.68	54	-11.32	-	-	-	-	220	103	V

* - Indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

9.1.9. TX ABOVE 1 GHz 2Tx Wi-Fi 7 MODE IN THE 6 GHz(NII-6) BAND

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 802.11be EHT20 / 6515 MHz / 37RU)



6515 MHz VERTICAL

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

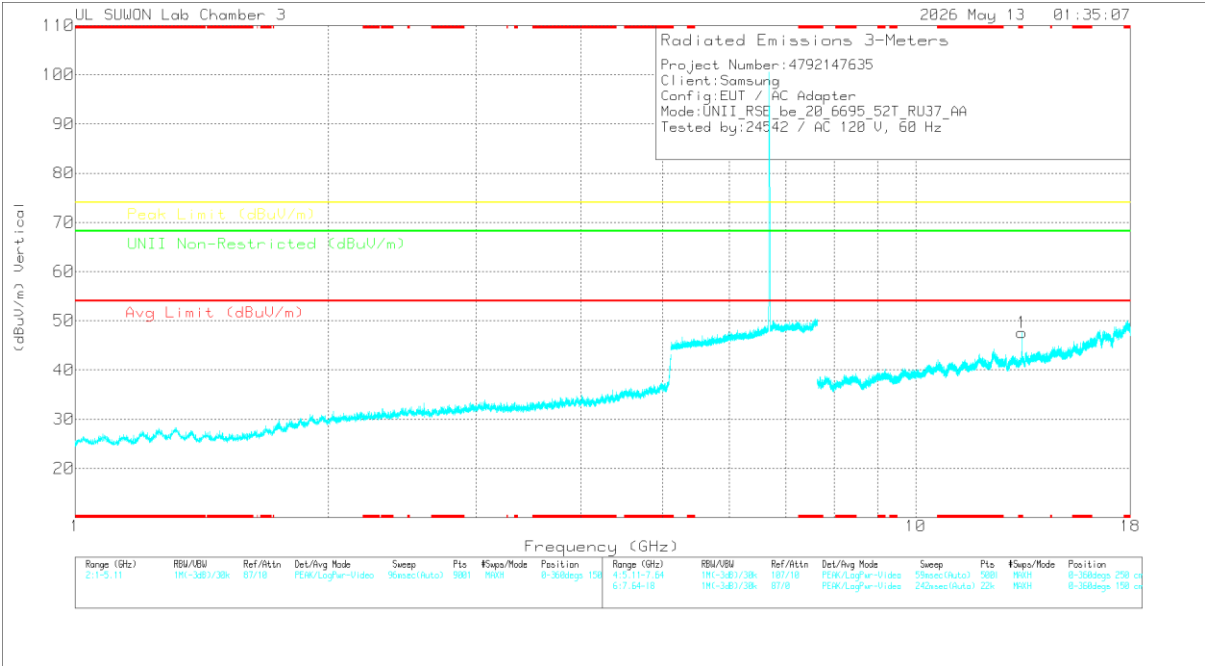
Radiated Emissions

Frequency (GHz)	Marker Reading (dBuV)	Det	Antenna Factor (dB/m)	8GHz_HF_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (m)	Height (m)	Polarity
13.03643	34.01	PK-U	30.2	-21.6	0	51.61	-	-	-	-	68.2	-16.59	83	107	V

PK-U - U-NII: Maximum Peak

9.1.10. TX ABOVE 1 GHz 2Tx Wi-Fi 7 MODE IN THE 6 GHz(NII-7) BAND

HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 802.11be / 6695 MHz / 37RU)



6695 MHz VERTICAL

Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

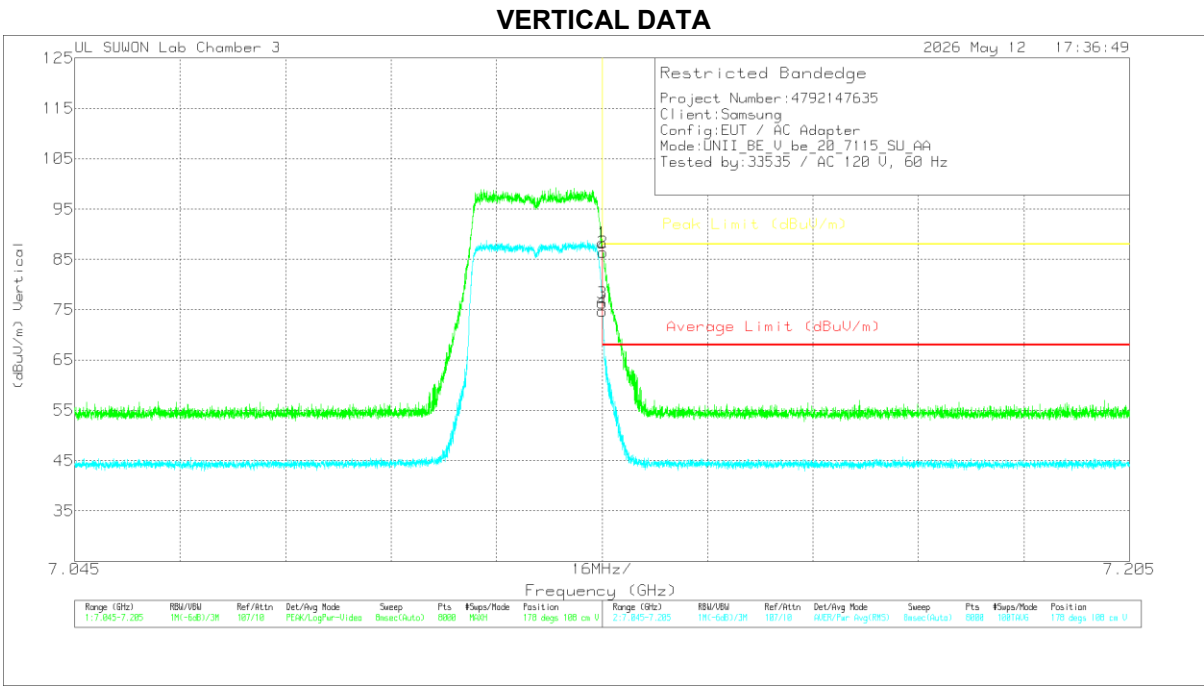
Radiated Emissions

Frequency (GHz)	Meas Reading (dBuV)	Det	Antenna Factor (dBm)	ISQZ_HF_Path Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Altitude (m)	Height (m)	Polarity
* 13.37379	41.2	PK-U	39.1	-21.6	0	58.7	-	-	74	-15.3	-	-	334	101	V
* 13.37255	29.71	ADR	39.1	-21.5	0	47.31	54	-6.69	-	-	-	-	334	101	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

9.1.11. TX ABOVE 1 GHz 2Tx WI-Fi 7 MODE IN THE 6 GHz(NII-8) BAND

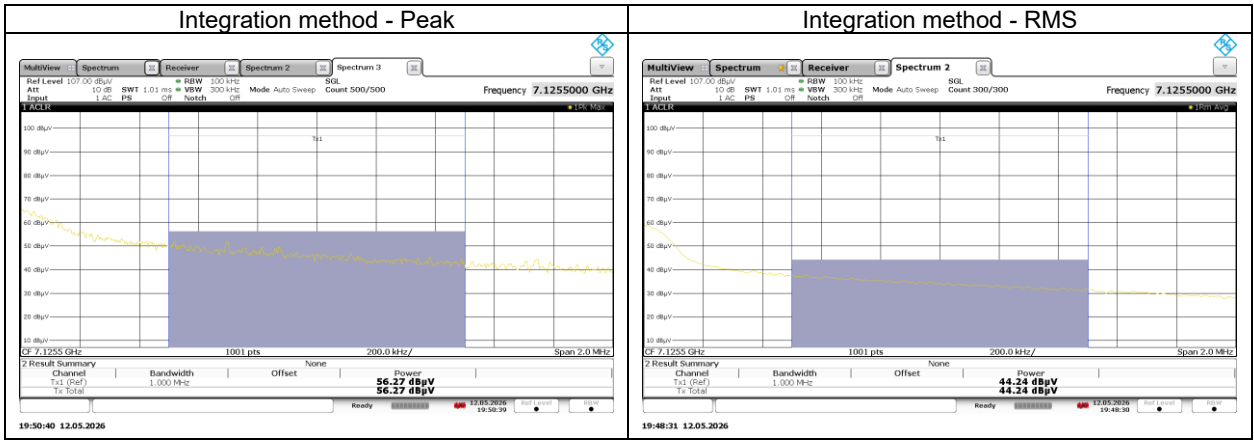
BANDEDGE (WORST CASE: 802.11be EHT20 / 7115 MHz / SU)



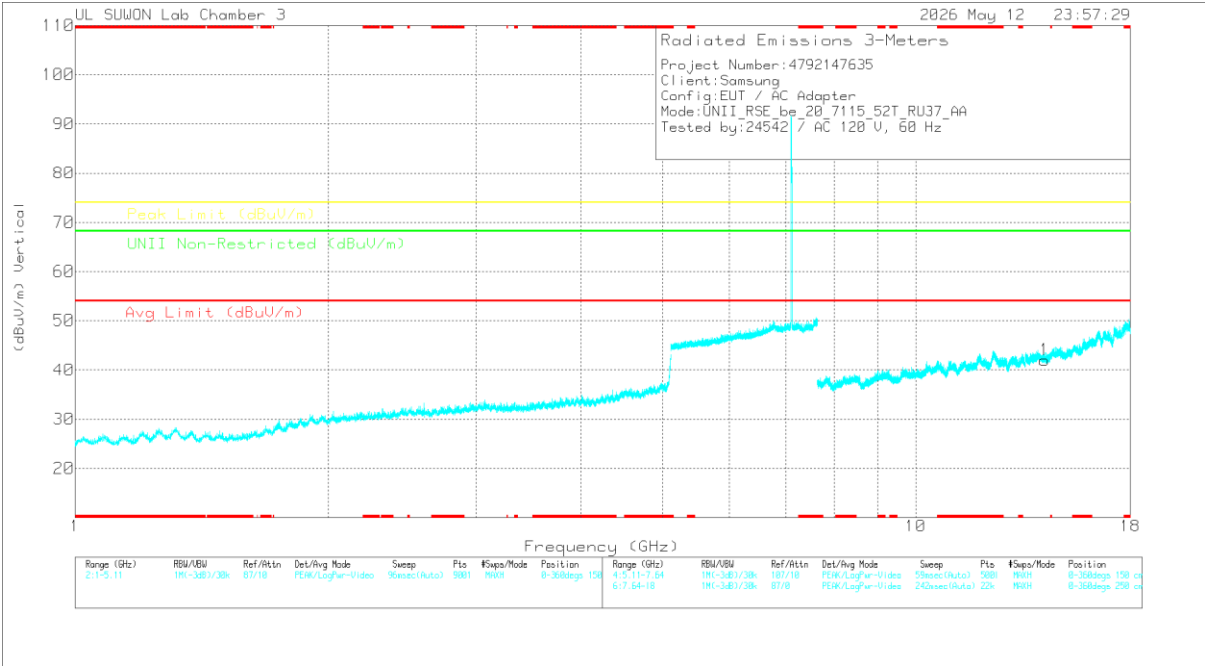
Trace Markers

Marker	Frequency (GHz)	Meas 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	7.12501 (Zoom scan)	56.27	Pk	35.9	-16.6	0	75.57	-	-	88	-12.43	178	108	V
3	7.12501 (Zoom scan)	44.24	RMS	35.9	-16.6	0	63.54	68	-4.46	-	-	178	108	V

Pk - Peak detector
RMS - RMS detection



HARMONICS AND SPURIOUS EMISSIONS (WORST CASE: 802.11be EHT20 / 7115 MHz / 37RU)



7115 MHz VERTICAL

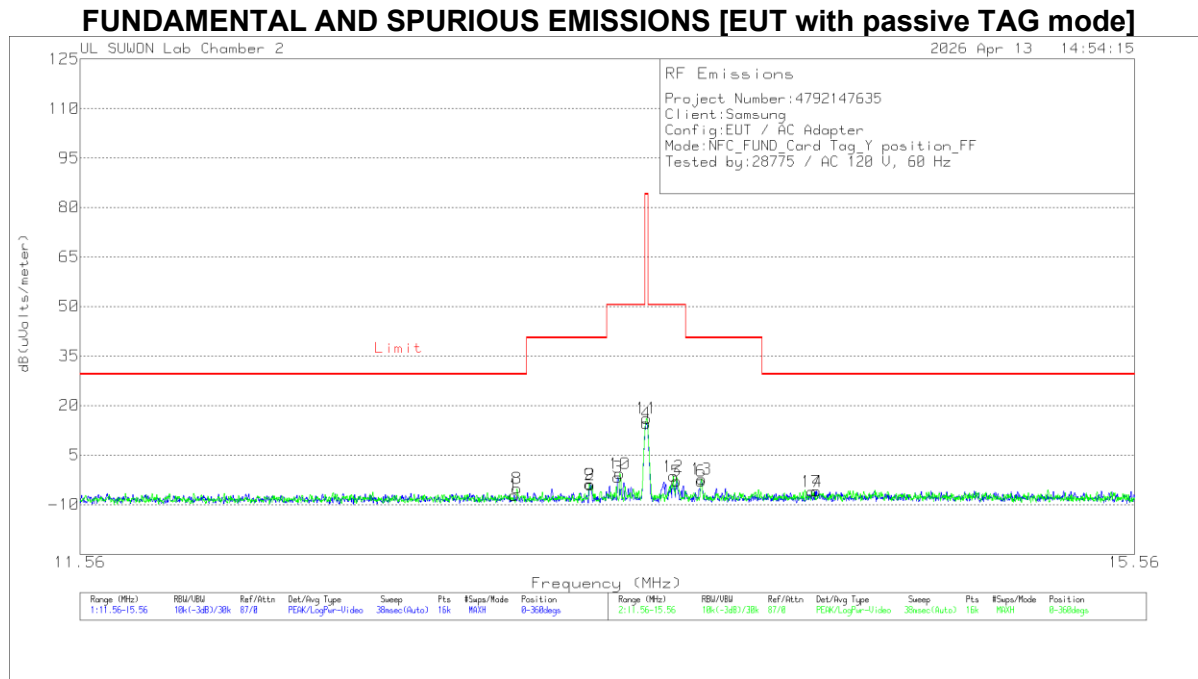
Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

Radiated Emissions

Frequency (GHz)	Max Reading (dBuV)	Det	Antenna Factor (dBm)	50Hz HP_Fwh Loss(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Acimuth (Deg)	Height (cm)	Polarity
14.22835	55.43	PK-U	39.3	-22.6	0	52.13	-	-	-	-	68.2	-16.07	158	199	V

PK-U - U-NII: Maximum Peak

9.1.12. NFC



Trace Markers

Face on

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	Antenna Factor [dB/m]	Dist Corr 30m [dB]	Cable Loss [dB]	Corrected Reading [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Azimuth (Degs)
**4	13.56	32.93	Pk	21.1	-40	.7	14.73	84	-69.27	0-360

Face off

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	Antenna Factor [dB/m]	Dist Corr 30m [dB]	Cable Loss [dB]	Corrected Reading [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Azimuth (Degs)
**11	13.56038	34.45	Pk	21.1	-40	.7	16.25	84	-67.75	0-360

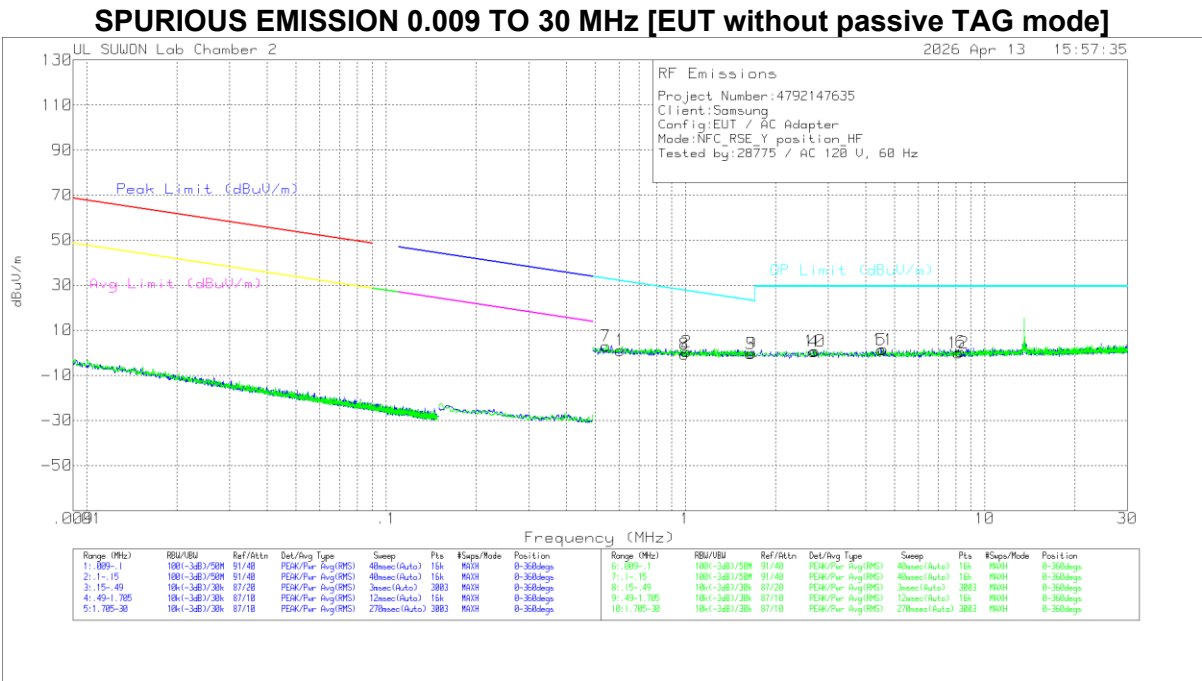
Pk - Peak detector

**Fundamental

Note 1 : Although these tests were performed other than open filed 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 ones of tests made in an open field based on KDB 414788.

Note 2: Radiated test were investigated with three receiving antenna axes: Face-on, Face-off and horizontal (parallel to the ground plane) and the worse orientations of Face-on and Face-off were set for final test.



Trace Markers
Face on

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	Antenna Factor [dB/m]	Cable Loss [dB]	Dist Corr 30m	Corrected Reading [dBuV/m]	QP Limit [dBuV/m]	Margin [dB]	Azimuth (Degs)
3	1.64896	18.7	Pk	20.5	.4	-40	-4	23.29	-23.69	0-360

Face off

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	Antenna Factor [dB/m]	Cable Loss [dB]	Dist Corr 30m	Corrected Reading [dBuV/m]	QP Limit [dBuV/m]	Margin [dB]	Azimuth (Degs)
9	1.66477	18.91	Pk	20.5	.4	-40	-19	23.21	-23.4	0-360

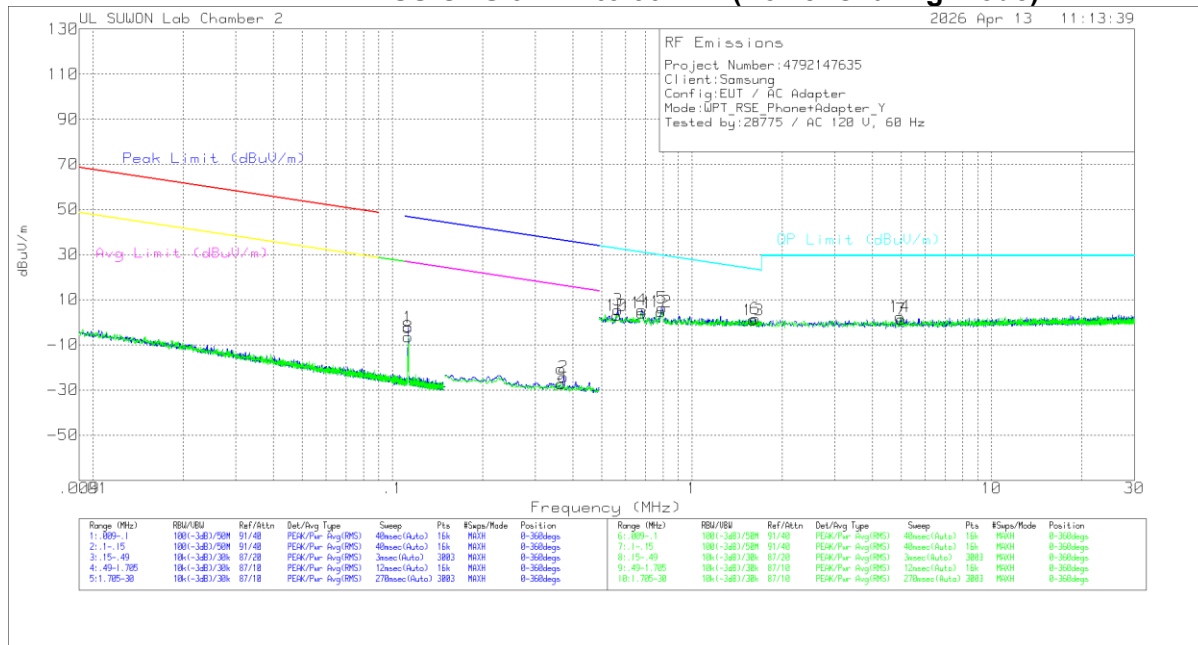
Pk - Peak detector

Note 1: Radiated test were investigated with three receiving antenna axes: Face-on, Face-off and horizontal (parallel to the ground plane) and the worse orientations of Face-on and Face-off were set for final test.

Note 2: For the 13.56 MHz fundamental frequency, refer to the fundamental measurement section.

9.1.13. WPT

RADIATED EMISSIONS 9 kHz to 30 MHz(Power sharing mode)



TEST DATA

Trace Markers

Face on

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	Antenna Factor[dB/m]	Cable Loss [dB]	Dist Corr 300m[dB]	Corrected Reading [dBuV/m]	Peak Limit [dBuV/m]	Margin [dB]	Avg Limit [dBuV/m]	Margin [dB]	Azimuth (Degs)
**1	.11259	56.98	Pk	20.5	.3	-80	-2.22	46.6	-48.82	26.6	-28.82	0-360

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	Antenna Factor[dB/m]	Cable Loss [dB]	Dist Corr 300m[dB]	Corrected Reading [dBuV/m]	QP Limit [dBuV/m]	Margin [dB]	Azimuth (Degs)
6	1.62365	20.72	Pk	20.5	.4	-40	1.62	23.42	-21.8	0-360

Face off

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	Antenna Factor[dB/m]	Cable Loss [dB]	Dist Corr 300m[dB]	Corrected Reading [dBuV/m]	Peak Limit [dBuV/m]	Margin [dB]	Avg Limit [dBuV/m]	Margin [dB]	Azimuth (Degs)
**8	.11261	52.69	Pk	20.5	.3	-80	-6.51	46.6	-53.11	26.6	-33.11	0-360

Marker	Frequency [MHz]	Meter Reading [dBuV]	Det	Antenna Factor[dB/m]	Cable Loss [dB]	Dist Corr 300m[dB]	Corrected Reading [dBuV/m]	QP Limit [dBuV/m]	Margin [dB]	Azimuth (Degs)
13	1.60123	20.05	Pk	20.5	.4	-40	.95	23.54	-22.59	0-360

Pk - Peak detector

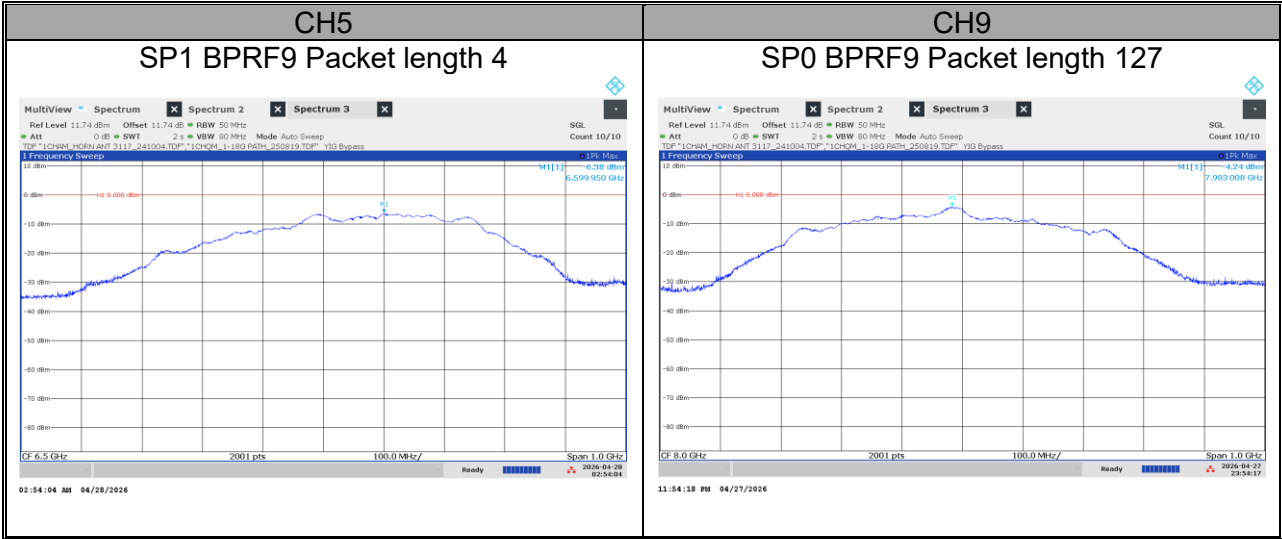
**Fundamental

Note: Radiated test were investigated with three receiving antenna axes: Face-on, Face-off and horizontal (parallel to the ground plane) and the worse orientations of Face-on and Face-off were set for final test.

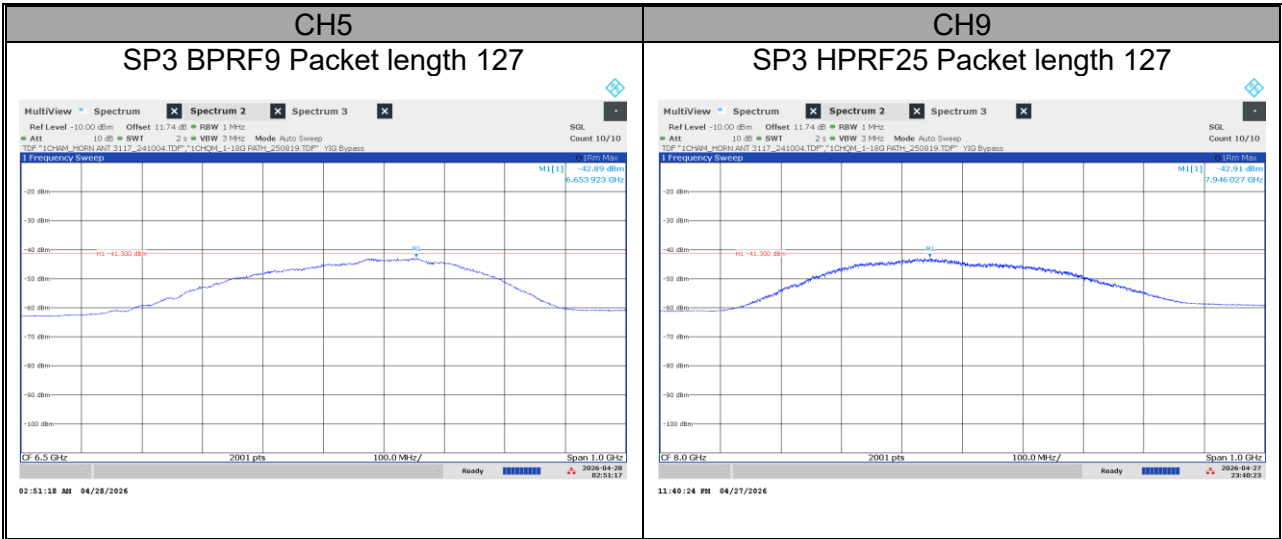
9.1.14. UWB

MAXIMUM PEAK AND AVERAGE POWER PLOTS

- PEAK POWER



- AVERAGE POWER

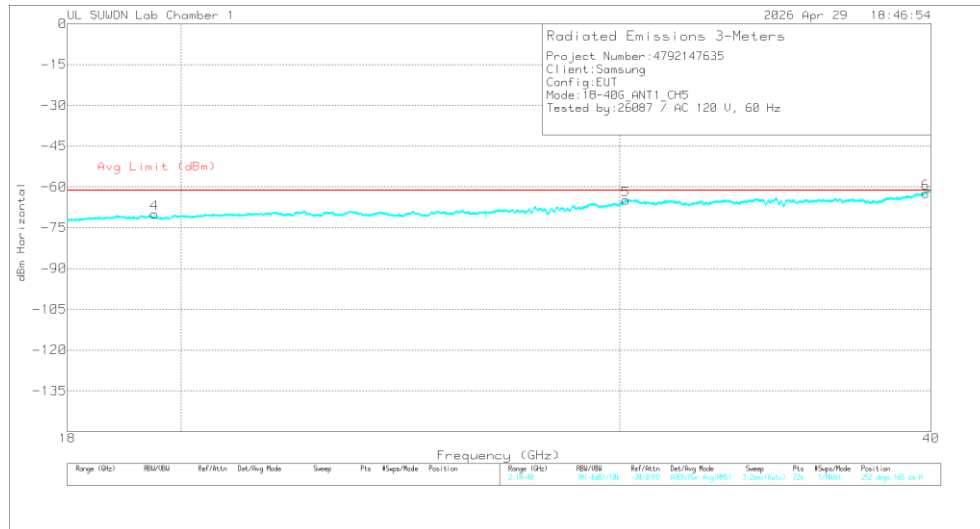


SPURIOUS EMISSION 18 GHz – 40 GHz

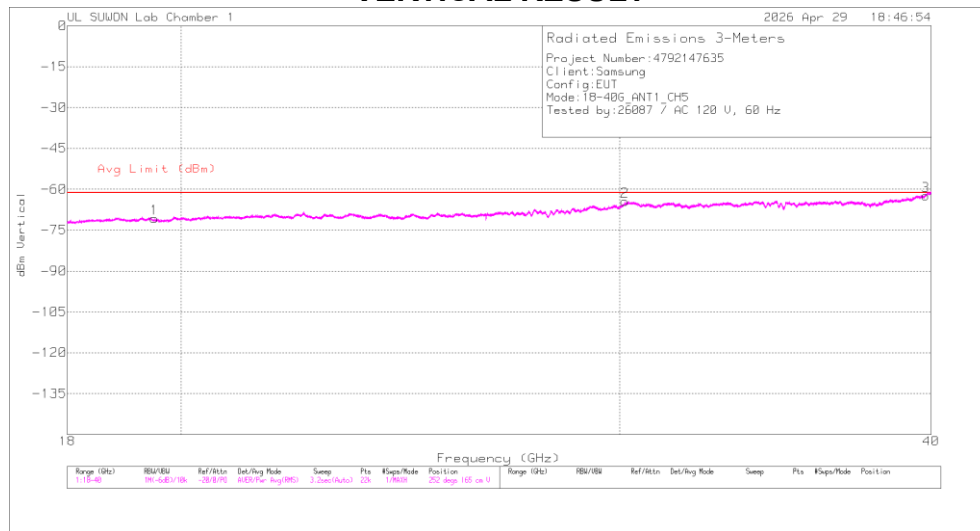
TX Antenna 1

CH 5

HORIZONTAL RESULT



VERTICAL RESULT

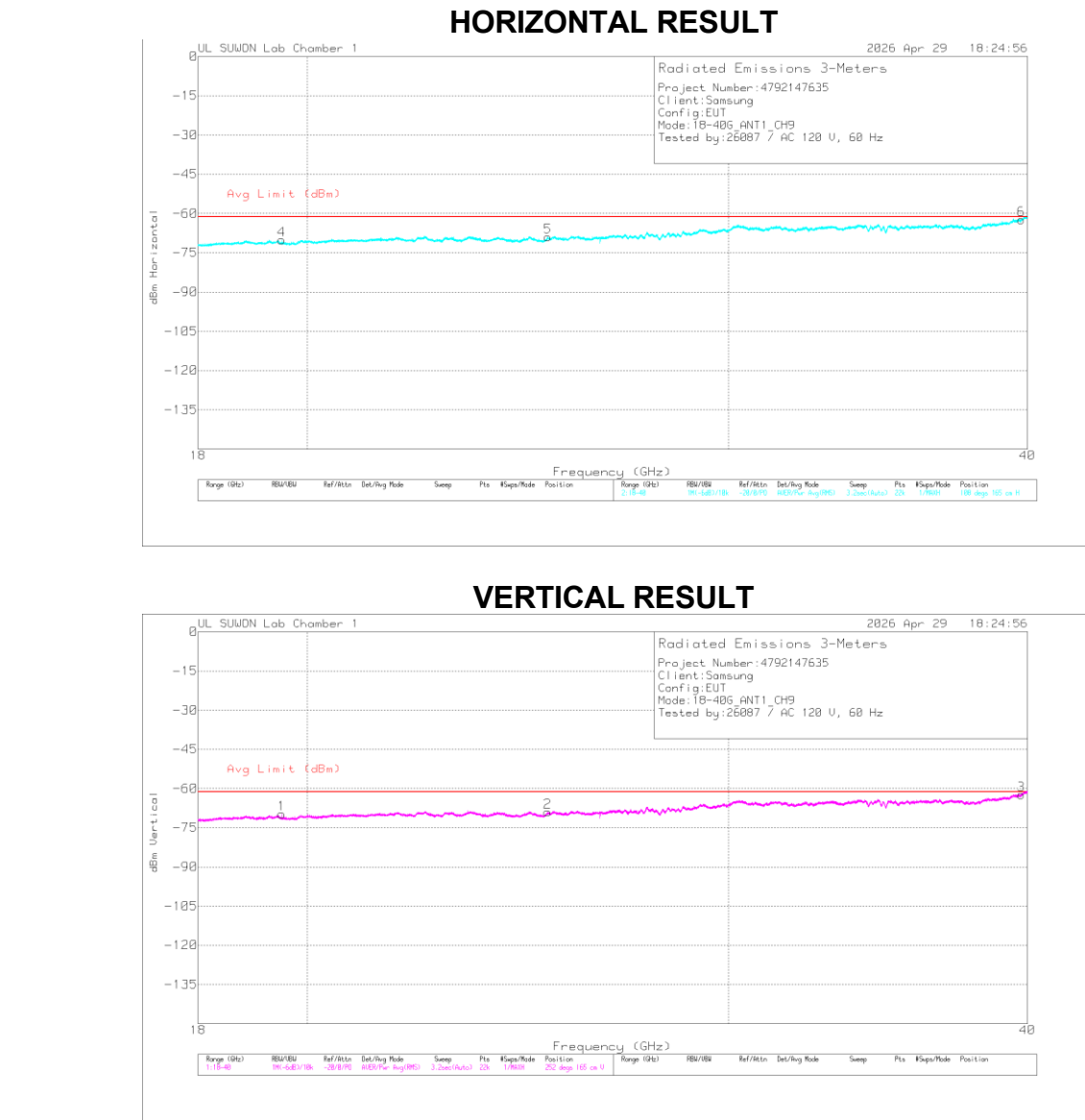


Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	Antenna_Factor (dB/m)	Above_18G_Path Loss(dB)	Conv. Fact. (dB)	Dist. Corr. (dB)	Corrected Reading dBm	Avg Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.50993	-87.84	RMS	5.1	15.9	11.8	-15.6	-70.64	-61.3	-9.34	0	165	V
2	30.13445	-94.4	RMS	13.5	20.2	11.8	-15.6	-64.5	-61.3	-3.2	252	165	V
3	39.80002	-93.29	RMS	11.2	23.5	11.8	-15.6	-62.39	-61.3	-1.09	0	165	V
4	19.51093	-87.09	RMS	5.1	15.9	11.8	-15.6	-69.89	-61.3	-8.59	144	165	H
5	30.17045	-94.81	RMS	13.5	20.2	11.8	-15.6	-64.91	-61.3	-3.61	180	165	H
6	39.80002	-93.24	RMS	11.2	23.5	11.8	-15.6	-62.34	-61.3	-1.04	360	165	H

RMS - RMS detection

CH 9



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	Antenna Factor (dB/m)	Above 18G Pa th Loss(dB)	Conv. Fact. (dB)	Dist. Corr. (dB)	Corrected Reading dBm	Avg Limit (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.50993	-86.91	RMS	5.1	15.9	11.8	-15.6	-69.71	-61.3	-8.41	0	165	V
2	25.20268	-91.26	RMS	7.6	18.5	11.8	-15.6	-68.96	-61.3	-7.66	216	165	V
3	39.76202	-93.31	RMS	11.2	23.5	11.8	-15.6	-62.41	-61.3	-1.11	0	165	V
4	19.50993	-87.29	RMS	5.1	15.9	11.8	-15.6	-70.09	-61.3	-8.79	216	165	H
5	25.20868	-91.24	RMS	7.6	18.5	11.8	-15.6	-68.94	-61.3	-7.64	72	165	H
6	39.76202	-93.24	RMS	11.2	23.5	11.8	-15.6	-62.34	-61.3	-1.04	144	165	H

RMS - RMS detection

END OF TEST REPORT