

TEST REPORT

Report Number: R16238088-E29

Applicant : Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

Model : SM-F976B

FCC ID : A3LSMF976B

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

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
FCC 47 CFR PART 15 SUBPART E
FCC 47 CFR PART 2, PART 27, PART 22, PART 24
ISED RSS-247 Issue 4
ISED RSS-GEN Issue 5 +A1+A2
ISED RSS-199 ISSUE 4, RSS-132 ISSUE 4, RSS-130 ISSUE 2

Date Of Issue:

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REVISION HISTORY

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Samsung Electronics Co Ltd
129, Samsung-ro, Yeongtong-gu, Suwon-si,
Gyeonggi-do, 16677, Rep. of Korea

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

SERIAL NUMBER: ZBQ0025M, ZBQ0014M, ZBQ0006M, ZBQ0053M, ZBQ0004M

SAMPLE RECEIPT DATE: 2026-03-10 and 2026-03-17

DATE TESTED: 2026-03-30 to 2026-05-14

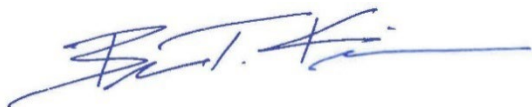
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Refer to Section 2
CFR 47 Part 15 Subpart E	Refer to Section 2
ISED RSS-247 Issue 4	Refer to Section 2
ISED RSS-GEN Issue 5 +A1+A2	Refer to Section 2

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC 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 a2La, NIST, or any agency of the U.S. government.

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2. TEST RESULTS SUMMARY

This report contains data provided by the applicant which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	See Comment	Spot check testing performed, as per the test plan, to justify data referencing. Full testing performed as necessary
-	RSS-GEN 6.7	99% / 26dB OBW		
15.247 (a)(2), 15.407 (e)	RSS-247 (6.3.1) (a) (7.3.4.2) (7.3.5.2)	6dB BW		
See Comment		Average Power		
15.247 (d)	RSS-247 (6.6)	Conducted Spurious Emissions		
15.247 (b) (3) 15.407 (a) (1-3), (h)(1)	RSS-247 (6.3.2) , RSS-247 7.3.1.2, 7.3.2.2, 7.3.3.2, 7.3.4.3	Output Power		
15.247 (e), 15.407 (a)(1-3)	RSS-247 (6.3.1)(b) (7.3.1.2, 7.3.2.2, 7.3.3.2, 7.3.4.3)	PSD		
15.207	RSS-GEN 8.8	AC Mains Conducted Emissions		
15.209, 15.205, 15.407 (b)(1-5)	RSS-GEN 8.9, 8.10, RSS-247 (7.3.1.3, 7.3.2.3, 7.3.3.3, 7.3.4.4)	Radiated Emissions		

Requirement Description	Requirement Clause Number (FCC)	Result	Remarks
Effective Radiated power	22.913 (a)(5)	See Comment	Spot check testing performed, as per the test plan, to justify data referencing. Full testing performed as necessary
Equivalent Isotropic Radiated power	24.232 (c), 27.50 (d) (4)		
Occupied Bandwidth	2.1049		
Band Edge and Emission Mask	2.1051, 22.917 (a), 24.238 (a), 27.53 (h)		
Out of Band Emission	2.1051, 22.917 (a), 24.238 (a), 27.53 (h)		
Frequency Stability	2.1055, 22.355, 24.235, 27.54		
Peak-to-Average Ratio	22.913 (d), 24.232 (d), 27.50 (d) (5)		
Field Strength of Spurious Radiation	2.1053, 22.917 (a), 24.238 (a), 27.53 (h)		

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, RSS-GEN Issue 5 + A1 + A2, and RSS-247 Issue 4, and KDB 484596 D01 Referencing Test Data v03.

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building: 12 Laboratory Dr Durham, NC 27713, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	ULab
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Power Spectral Density	2.47 dB
RF Power Measurement Direct Method Using Power Meter	1.3 dB (PK) / 0.45 dB (AV)
Unwanted Emissions, Conducted	1.94 dB
Worst Case Radiated Disturbance, 9kHz to 40 GHz	6.01 dB
Time Domain Measurements	3.39%
Temperature	0.57°C
Humidity	3.39%
DC Supply Voltages	0.57%

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

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

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)

$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, UWB, WPT and NFC. This report covers the data referencing of the BT/BLE, DTS/UNII, and WWAN radios.

6.2. WORST-CASE CONFIGURATION AND MODE

For BLE, the following testing was performed as per the provided, data referencing test plan:

Chain 1 High Bandedge 1 Mbps
MIMO High Bandedge 1 Mbps
Chain 1 RSE High Channel 125 kbps
Chain 0 Peak Output Power High Channel 2 Mbps
Chain 1 PSD Mid Channel 125kbps
Chain 0 6dB / 99% BW High Channel 1 Mbps
Chain 0 Conducted Bandedge + Conducted Spurious Emissions High Channel 2 Mbps
Additionally, full Chain 0 bandedge and MIMO 1-18 GHz radiated emissions were performed and are included in this report.

For BT, the following testing was performed as per the provided, data referencing test plan:

Chain 0 High Bandedge GFSK
Chain 1 High Bandedge GFSK
MIMO High Bandedge GFSK
Chain 0 RSE High Channel GFSK
MIMO RSE High Channel GFSK
Chain 0 Peak Output Power High Channel GFSK
Chain 0 20dB / 99% BW Low Channel GFSK
Chain 0 Conducted Bandedge + Conducted Spurious Emissions High Channel GFSK

For 2.4 WLAN, the following testing was performed as per the provided, data referencing test plan:

MIMO Low Bandedge 11beEHT20 242T/RU61
MIMO 1-18 GHz RSE Mid Channel 11b
MIMO PSD Low Channel 11beEHT20 26T/RU0
MIMO Peak Output Power Low Channel 11beEHT20 242T
MIMO 6dB / 99% BW Low Channel 11b
MIMO Conducted Bandedge + Conducted Spurious emissions Low Channel 11beEHT20 242T

For 5 WLAN, the following testing was performed as per the provided data referencing test plan:

MIMO Low Bandedge 5250 MHz 11beEHT160 996T+484T+242T/RU1098
MIMO High Bandedge 5320 11beEHT20 242T/RU61
MIMO Low Bandedge 5510 11a
MIMO Low Bandedge 5815 11beEHT160 996T+484T_C_RU1095
MIMO High Bandedge 5885 11beHT20 242T RU61
MIMO Average Output Power 5700MHz 11be EHT20 106T+26T RU 83
MIMO FCC/IC PSD 5180 MHz 11be EHT20 26T RU0
MIMO 26dB / 99% BW 5180 11a
MIMO 6dB 5825 5 WLAN, 11be EHT20 26T RU8

For 6 WLAN, the following testing was performed as per the provided data referencing test plan:

MIMO Low Bandedge 5935 11a
MIMO High Bandedge 7115 11a
MIMO RSE 7115 11a
MIMO Power 6825 MHz 11be EHT160, 484+996T Punctured (N)
MIMO FCC/IC PSD 6695 MHz 11a
MIMO 26dB / 99% BW 6105 MHz 11be EHT320 SU

For WWAN, the following testing was performed as per the provided data referencing test plan:

RSE GSM850 848.8 MHz
RSE n71 Channel 136100
RSE n41 Channel 509202
RSE n77c Channel 650000
RSE n41 (SRS) Channel 509202
RSE n5 Channel 164800
RSE n77c Channel 662000
RSE n41 Channel 518598
RSE n41 (SRS) Channel 528000
RSE GSM1900 1909.8 MHz
EIRP GSM850 836.6 MHz Antenna A+C (C0)
EIRP n71 680.5 MHz Antenna A (C0)
EIRP GSM1900 1909.8 MHz Antenna B (C0)
EIRP LTE66 1745 MHz Antenna G (C1)
EIRP n41 (SRS) 2550 MHz Antenna SRS D
EIRP GSM850 836.6 MHz Antenna E (C1)
EIRP n41 (SRS) 2500 MHz Antenna SRS H

The EUT was investigated in three orthogonal orientations: X, Y, and Z. Additionally, the EUT was investigated fully opened, fully closed, and opened 90 degrees. The following orientations/positions were found to be worst case and were used for testing.

Technology	Orientation	Position
BT, C0/1, BLE C0, BT/BLE/2.4 WLAN/5 WLAN MIMO, WWAN Chains A(C0)/B(C0)/SRS D/E(C1)/F(C0)/SRS H	X	Open
BLE C1	Y	90 Degrees
6 WLAN MIMO, n41 Chain G	Y	Closed
n77c Chain C	Y	Open

Full conducted tabular data is included in section 7.4; however, only representative plots per test are included in section 10

For radiated emissions test data, full tabular data was reported; however, only worst-case representative plots were included.

For BLE, full radiated bandedge was performed on chain 0. Additionally, full MIMO testing was performed for radiated spurious emissions between 1-18 GHz. For reporting purposes only one worst-case representative plot was included.

The Worst-Case scenarios for 1-18GHz radiated spurious emissions are as follows:

Technology	Test	Chain	Frequency (MHz)	Mode	Data Rate
BLE	High Bandedge	1	2480	BLE 1Mbps, C1, 2480 MHz, ePA Max, (ADV)	1Mbps
	High Bandedge	MIMO	2480	BLE 1Mbps, MIMO, 2480 MHz, Dual QC Max, (ADV)	1Mbps
	1-18 RSE	1	2480	BLE 125kbps, C1, ePA Max, (ADV)	125kbps
BT	High Bandedge	0	2480	GFSK, C0, 2480 MHz, ePA Max (V1TV)	DH5
	High Bandedge	1	2480	GFSK, C1, 2480 MHz, ePA Max (V1TV)	DH5
	High Bandedge	MIMO	2480	GFSK, MIMO, 2480 MHz, Dual QC Max (PK)	DH5
	1-18 RSE	0	2480	GFSK, C0, 2480 MHz, ePA Max (V1TV)	DH5
	1-18 RSE	MIMO	2480	GFSK, MIMO, 2480 MHz, Dual QC Max (PK2)	DH5
2.4 WLAN	Low BE	MIMO	2412	11BeEHT20 242T/RU61 (ADV)	MSC0
	1-18 RSE	MIMO	2437	11b 2437 (ADV)	1Mbps
5 WLAN	5.2 Low BE	MIMO	5250	11beEHT160 996T+484T+242T/RU1098 (ADV)	MCS0
	5.3 High BE	MIMO	5320	11beEHT20 242T/RU61 (PK)	MCS0
	5.6	MIMO	5510	11a (PK)	6Mbps
	5.8 Low BE	MIMO	5815	11beEHT160 996T+484T_C_RU1095 (Pk)	MCS0
	5.9 HIGH BE	MIMO	5885	11beHT20 242T RU61 (RMS)	MCS0
	1-18 RSE	MIMO	5500	11nHT20 (ADV)	MCS0
6 WLAN	UNII5 BE	MIMO	5935	11a(RMS) with power integration	6Mbps
	UNII8 BE	MIMO	7115	11a(RMS) with power integration	6Mbps
	1-18 RSE	MIMO	7115	11a	6Mbps
GSM850	1-18 RSE	A+C (C0)	848.8	GSM850, GPRS, CS1, TS1, Channel 251 848.8 MHz, Config 0	GPRS
n71	1-18 RSE	A (C0)	Channel 136100	n71, BPSK, 35MHz, RB1-94, Channel 136100, Config 0	BPSK
n41	1-18 RSE	B (C0)	Channel 509202	n41, BPSK, 100MHz, RB1-1, Channel 509202, Config 0	BPSK
n77c	1-18 RSE	C (C1)	Channel 650000	n77c, BPSK, 100Mhz, RB1-1, Channel 650000, Config 1	BPSK
n41 (SRS)	1-18 RSE	SRS D	Channel 509202	n41 SRS D, BPSK, 100MHz, RB1-1, Channel 509202	BPSK
n5	1-18 RSE	E (C1)	Channel 164800	n5, BPSK, 20MHz, RB1-1, Channel 164800, Config 1	BPSK
n77c	1-18 RSE	F (C0)	Channel 662000	n77c, BPSK, 100MHz, RB1-1, Channel 662000, Config 0	BPSK
n41	1-18 RSE	G (C1)	Channel 518598	n41, 16QAM, 100MHz, RB1-1, Channel 510000, Config 1	16QAM
n41 (SRS)	1-18 RSE	SRS H	Channel 528000	n41 SRS H, BPSK, 100MHz, RB1-1, Channel 528000	BPSK

6.3. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Power Adapter	Sony	XQZ-UC11-010-236-21	NA	NA

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB-C	1	USB-C	Shielded	<3m	EUT to power adapter

TEST SETUP

The EUT is tested as a standalone device connected to an AC adapter.

SETUP DIAGRAM

Refer to R16238088-EP1d for setup diagrams

7. REUSE OF TEST DATA

7.1. INTRODUCTION

According to the manufacturer, Models SM-F976U/SM-F976U1 and Model SM-F976B radios are electrically identical. The SM-F976U/SM-F976U1 test data shall remain representative of SM-F976B so Model SM-F976B leverages test data from Models SM-F976U/SM-F976U1.

The applicant takes full responsibility that the test data as referenced in this section represents compliance for this FCC ID.

7.2. DEVICES DIFFERENCES

Difference between SM-F976U/SM-F976U1 and SM-F976B:

Refer to manufacturer supplied data referencing declaration.

7.3. REFERENCE DETAIL

Equipment Class	Reference FCC ID	Report Title
DTS (BLE/2.4WLAN)	A3LSMF976U	R16238088-E14a FCC BLE-2.4GHz WLAN REPORT
BT Classic	A3LSMF976U	R16238088-E13a FCC BT REPORT
5 GHz WLAN	A3LSMF976U	R16238088-E15a FCC 5GHz WLAN REPORT
6 GHz WLAN	A3LSMF976U	R16238088-E16a FCC 6GHz WLAN REPORT
WWAN	A3LSMF976U	R16238088-E2a FCC 2G_3G_WWAN REPORT R16238088-E3a FCC Part 22H_25_RSS132_B5_26_Report R16238088-E4a FCC_IC Part 24E_25_RSS133_B2_25_Report R16238088-E5a FCC_Part 27_25_RSS130_B12_13_71_Report R16238088-E6a FCC_Part 27_RSS139_B4_66_Report R16238088-E7a FCC Part 27_RSS199_B7_41_38 R16238088-E9a FCC Part 27_96_B77 Report

All test data is being referenced from the above reports, except for the following. In these instances, full testing was performed and documented within this test report.

- BLE Chain 0: Radiated Bandedge
- BLE MIMO: Radiated Spurious Emissions

7.4. SPOT CHECK VERIFICATION RESULTS SUMMARY

Spot check verification has been done on Model SM-F976B for the tests listed above in section 6.2. The data from the application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary. The tests chosen as part of this spot-check test program were deemed to be the critical tests required to support data referencing. The remaining tests required to show compliance with the relevant requirements are considered compliant and the results of these tests can be found in the appropriate test reports filed as part of the parent variant certification.

Technology	Test	Frequency (MHz)/Channel	Remeasure Freq (GHz)	SM-F976U, SM-F976U1 Reading (dBuV/m)*	SM-F976B Reading (dBuV/m)*	Margin <3dB Reading (dB)
BLE 1Mbps, C1, 2480 MHz, ePA Max, (ADV)	High Bandedge	2480	2.4835	37.93	38.82	0.89
BLE 1Mbps, MIMO, 2480 MHz, Dual QC Max, (ADV)	High Bandedge	2480	2.4835	35.24	34.94	-0.3
BLE 125kbps, C1, ePA Max, (ADV)	1-18 RSE	2480	7.44	42.87	40.83	-2.04
BLE C0	6dB BW	2480	NA	645 kHz	645 kHz	NA
BLE C0	99% BW	2480	NA	1.0191 MHz	1.0724 MHz	NA
BLE C0	PK Power	2478	NA	19.35 dBm	17.426 dBm	-1.924
BLE C1	PSD	2440	NA	4.885 dBm/MHz	5.194 dBm/MHz	0.309
BLE C0	CBE	2478	2.4835	-33.346	-32.222	1.124
BLE C0	CSPUR	2478	25.862	-27.681	-26.106	1.575
GFSK, C0, 2480 MHz, ePA Max (V1TV)	High Bandedge	2480	2.4835	33.4	36.96	3.56**
GFSK, C1, 2480 MHz, ePA Max (V1TV)	High Bandedge	2480	2.4835	33.05	34.56	1.51
GFSK, MIMO, 2480 MHz, Dual QC Max (PK)	High Bandedge	2480	2.4835	54.95	53.28	-1.67
GFSK, C0, 2480 MHz, ePA Max (V1TV)	1-18 RSE	2480	4.96	47.36	46.71	-0.65
GFSK, MIMO, 2480 MHz, Dual QC Max (PK2)	1-18 RSE	2480	7.44	60.15	58.88	-1.27
BT	20dB BW	2402	NA	0.856 MHz	0.944 MHz	NA
BT	99% BW	2402	NA	0.878 MHz	0.894 MHz	NA
BT	PK Power	2480	NA	19.96 dBm	19.236 dBm	-0.724
BT	CBE	2480	2.4835	-39.887	-41.142	-1.255
BT	CSPUR	2480	4.96	-39.442	-41.476	-2.034
11BeEHT20 242T/RU61 (ADV)	Low BE	2412	2.39	48.62	49.21	0.59
11b 2437 (ADV)	1-18 RSE	2437	4.87	46.45	46.74	0.29
2.4 WLAN MIMO	6dB BW	2412	NA	6.680 MHz	8.160 MHz	NA
2.4 WLAN MIMO	99% BW	2412	NA	13.026 MHz	13.092 MHz	NA
2.4 WLAN MIMO	PK Power	2412	NA	29.07 dBm (Summed)	28.636 dBm	-0.434
2.4 WLAN MIMO	PSD	2412	NA	-1.23 dBm/MHz (Summed)	-2.292 dBm/MHz	-1.06
2.4 WLAN MIMO	CBE	2412	2.398	-26.493	-27.262	-0.769
2.4 WLAN MIMO	CSPUR	2412	25.9775	-28.021	-26.976	1.045
11beEHT160 996T+484T+242T/RU1098 (ADV)	5.2 Low BE	5250	5.14624	51.49	49.59	-1.9
11beEHT20 242T/RU61 (PK)	5.3 High BE	5320	5.35	55.69	55.23	-0.46
11a (PK)	5.6 Low BE	5510	5.467	65.97	65.88	-0.09

Technology	Test	Frequency (MHz)/Channel	Remeasure Freq (GHz)	SM-F976U, SM-F976U1 Reading (dBuV/m)*	SM-F976B Reading (dBuV/m)*	Margin <3dB Reading (dB)
11beEHT160 996T+484T C RU1095 (Pk)	5.8 Low BE	5815	5.629	-29.87	-29.27	0.6
11beHT20 242T RU61 (RMS)	5.9 HIGH BE	5885	5895	-7.99	-9.18	-1.19
11nHT20 (ADV)	1-18 RSE	5500	11.003	43.04	45.83	2.79
5 WLAN MIMO	6dB BW	5825	NA	2.080 MHz	2.040 MHz	NA
5 WLAN MIMO	99% BW	5180	NA	16.762 MHz	16.779 MHz	NA
5 WLAN MIMO	26dB BW	5180	NA	22.960 MHz	23.080 MHz	NA
5 WLAN MIMO	Power	5700	NA	18.54 dBm (Summed)	17.732 dBm	-0.808
5 WLAN MIMO	PSD	5180	NA	9.99 dBm/MHz (Summed)	9.928 dBm/MHz	-0.062
11a(RMS) with power integration MIMO	UNII5 BE	5935	5925	-29.01	-29.17	-0.16
11a(RMS) with power integration MIMO	UNII8 BE	7115	7125.124	-29.15	-30.74	-1.59
11a MIMO	1-18 RSE	7115	9.311	45.81	45.67	-0.14
6 WLAN MIMO	99% BW	6105	NA	315.050 MHz	313.970 MHz	NA
6 WLAN MIMO	26dB BW	6105	NA	341.120 MHz	343.040 MHz	NA
6 WLAN MIMO	Power	6825	NA	9.45 dBm (Summed)	7.648 dBm	-1.802
6 WLAN MIMO	PSD	6695	NA	-5.53 dBm/MHz (Summed)	-6.49 dBm/MHz	-0.96
GSM850, GPRS, CS1, TS1, Config 0	1-18 RSE	848.8	9.5797	-41.41	-44.29	-2.88
n71, BPSK, 35MHz, RB1-94, Config 0	1-18 RSE	Channel 136100	9.0334	-43.03	-41.8	1.23
n41, BPSK, 100MHz, RB1-1, Config 0	1-18 RSE	Channel 509202	13.642	-34.55	-36.24	-1.69
n77c, BPSK, 100Mhz, RB1-1, Config 1	1-18 RSE	Channel 650000	17.584	-28.04	-29.03	-0.99
n41 SRS D, BPSK, 100MHz, RB1-1	1-18 RSE	Channel 509202	17.715	-37.21	-39.02	-1.81
n5, BPSK, 20MHz, RB1-1, Config 1	1-18 RSE	Channel 164800	9.379	-41.46	-43.06	-1.6
n77c, BPSK, 100MHz, RB1-1, Config 0	1-18 RSE	Channel 662000	17.93098	-27.69	-30.69	-3
n41, 16QAM, 100MHz, RB1-1, Config 1	1-18 RSE	Channel 518598	13.661	-33.9	-36.53	-2.63
n41 SRS H, BPSK, 100MHz, RB1-1	1-18 RSE	Channel 528000	17.551	-36.84	-38.84	-2
GSM1900, GPRS, CS1, TS1, Config 0	1-18 RSE	1909.8	17.944	-29.54	-32.44	-2.9
GSM850 (ANT A+C), Config 0	EIRP	836.6	NA	27.77	26.8	-0.97
n71 (ANT B), Config 0	EIRP	680.5	NA	13.66	14.51	0.85
GSM1900 (ANT B), Config 0	EIRP	1909.8	NA	27.19	28.34	1.15
n41 SRS (ANT D)	EIRP	2550	NA	17.47	18.56	1.09
GSM850 (ANT E), Config 1	EIRP	836.6	NA	26.98	26.91	-0.07
LTE66 (ANT G), Config 1	EIRP	1745	NA	24.42	25	0.58
n41 SRS (ANT H)	EIRP	2550	NA	10.29	8.09	-2.2

Additional conducted licensed testing was performed beyond what is summarized in the above table to further support data referencing. Refer to Section 10.1.6 for details.

*NOTE: All measured data is reported in terms of dBuV/m unless specified otherwise within the table.

**NOTE: Reference data had 20.6 dBm of margin from the compliance limit. Therefore, maximum permissible delta can be calculated as $3 + (20.6/20) = 4.03$. Since the measured delta, 3.56, is less than the maximum permissible amount of 4.03, data referencing is valid.

8. TEST AND MEASUREMENT EQUIPMENT

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Conducted Room 2					
90410	Spectrum Analyzer	Keysight Technologies	N9030A	2025-07-10	2026-07-10
211055	Real-Time Peak Power Sensor 50MHz to 8GHz	Boonton	RTP5000	2025-07-30	2026-07-30
211056	Real-Time Peak Power Sensor 50MHz to 8GHz	Boonton	RTP5000	2025-07-30	2026-07-30
248881	Environmental Meter	Control Company	06-662-4	2024-04-10	2026-04-10
SOFTEMI	Antenna Port Software	UL	Version 2024.2.23		
Power Software	Boonton Power Analyzer	Boonton	Version 3.0.13.0		
Additional Equipment used					
BT0001	CBT Bluetooth Tester	Rohde & Schwarz	1153.9000.35	Cal not required	
259603	Conducted Switch Box	UL	CSB	2025-03-12	2026-03-30
226566	2.92mm Coaxial 10dB Attenuator 40GHz	Fairview Microwave	SA4014-10	2025-08-30	2026-08-30
226567	2.92mm Coaxial 10dB Attenuator 40GHz	Fairview Microwave	SA4014-10	2025-09-02	2026-09-02

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 1)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
1-18 GHz					
88761	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2025-11-19	2027-11-19
Gain-Loss Chains					
91979	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
Receiver & Software					
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-07-29	2026-07-29
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
241205	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 2)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
1-18 GHz					
86408	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2025-07-15	2027-07-15
Gain-Loss Chains					
91977	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-05-12	2026-05-12
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
239540	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 4)

Equip. ID	Description	Manufacturer/Brand	Model Number	Last Cal.	Next Cal.
1-18 GHz					
135143	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2026-03-02	2028-03-02
Gain-Loss Chains					
207640	Gain-loss string: 1-18GHz	Various	Various	2025-06-13	2026-06-13
Receiver & Software					
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-04-21	2026-04-30
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
241204	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05

9. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.
KDB 789033 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

BLE and 2.4 WLAN

Mode	ON Time B (ms)	Period (ms)	Duty Cycle x (linear)	Duty Cycle (%)	Voltage Duty Cycle Correction Factor (dB)	RMS Duty Cycle Correction Factor (dB)
BLE 125kbps	17.050	18.100	0.942	94.20	0.52	0.26
BLE 500kbps	4.560	5.320	0.857	85.70	1.34	0.67
BLE 1Mbps	2.130	2.500	0.852	85.20	1.39	0.70
BLE 2Mbps	1.075	1.405	0.765	76.50	2.33	1.16
802.11b	8.850	9.050	0.978	97.80	0.19	0.10
802.11g	1.460	1.660	0.880	88.00	1.11	0.56
802.11n HT20	0.635	0.755	0.841	84.10	1.50	0.75
802.11be HE20 26T	2.592	2.624	0.988	98.80	0.00	0.00
802.11be HE20 52T	2.592	2.622	0.989	98.90	0.00	0.00
802.11be HE20 52T+26T	1.985	2.024	0.981	98.10	0.00	0.00
802.11be HE20 106T	1.424	1.454	0.979	97.90	0.18	0.09
802.11be HE20 106T+26T	1.179	1.206	0.978	97.80	0.19	0.10
802.11be HE20 242T	0.675	0.697	0.969	96.90	0.27	0.14

5 GHz WLAN

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	RMS Duty Cycle Correction Factor (dB)	Voltage Duty Cycle Correction Factor (dB)
802.11a	1.807	2.014	0.897	89.72	0.47	0.94
802.11n HT20	0.648	0.746	0.868	86.84	0.61	1.23
802.11n HT40	0.331	0.430	0.770	76.98	1.14	2.27
802.11ac VHT80	1.831	1.930	0.949	94.87	0.23	0.46
802.11ac VHT160	1.834	1.934	0.948	94.83	0.23	0.46
802.11ax HE20 26T	2.595	2.613	0.993	99.31	0.00	0.00
802.11ax HE20 52T	2.592	2.611	0.993	99.27	0.00	0.00
802.11ax HE20 106T	1.435	1.454	0.987	98.69	0.00	0.00
802.11ax HE20 242T	0.675	0.694	0.973	97.31	0.12	0.24
802.11ax HE40 484T	0.923	0.942	0.980	97.98	0.09	0.18
802.11ax HE80 484+242T	0.643	0.662	0.972	97.18	0.12	0.25
802.11ax HE80 996T	0.487	0.506	0.962	96.19	0.17	0.34
802.11ax HE160 996+484T	0.487	0.506	0.963	96.34	0.16	0.32
802.11ax HE160 996+484+242T	5.447	5.464	0.997	99.69	0.00	0.00
802.11ax HE160 2X996T	0.383	0.402	0.953	95.25	0.21	0.42

6 GHz WLAN

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Voltage AV Duty Cycle Correction Factor (dB)	RMS AV Duty Cycle Correction Factor (dB)
802.11a CDD	1.462	1.563	0.935	93.54	0.58	0.29
802.11be EHT20 26T	2.595	2.615	0.992	99.24	0.00	0.00
802.11be EHT20 52T	2.583	2.603	0.992	99.23	0.00	0.00
802.11be EHT20 52T+26T	1.998	2.020	0.989	98.91	0.00	0.00
802.11be EHT20 106T	1.433	1.453	0.986	98.62	0.00	0.00
802.11be EHT20 106T+26T	1.178	1.198	0.983	98.33	0.00	0.00
802.11be EHT20 242T	2.387	2.407	0.992	99.17	0.00	0.00
802.11be EHT40 484T	2.383	2.402	0.992	99.21	0.00	0.00
802.11be EHT80 484T+242T	2.379	2.397	0.992	99.25	0.00	0.00
802.11be EHT80 996T	2.419	2.440	0.991	99.14	0.00	0.00
802.11be EHT160 996T+484T	2.407	2.424	0.993	99.30	0.00	0.00
802.11be EHT160 996T+484T+242T	5.443	5.466	0.996	99.58	0.00	0.00
802.11be EHT160 2*996T	2.414	2.433	0.992	99.22	0.00	0.00
802.11be EHT320 2*996T+484T	1.965	1.985	0.990	98.99	0.00	0.00
802.11be EHT320 3*996T	1.639	1.657	0.989	98.91	0.00	0.00
802.11be EHT320 3*996T+484T	1.426	1.446	0.986	98.62	0.00	0.00
802.11be EHT320 SU	5.443	5.465	0.996	99.60	0.00	0.00

NOTE: Duty cycle is being leveraged from the original certification. No new measurements were made for this test. Example duty cycle plots can be found in the corresponding reports listed in section 7.2

10. SPOTCHECK TEST DATA

LIMITS

FCC §15.205, §15.225, §15.209, and §15.407

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

RSS 247 Issue 4 Sections

Frequency Range (kHz)	Field Strength Limit (uA/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	6.37/F(kHz) @ 300 m	-
0.490-1.705	63.7/F(kHz) @ 30 m	-
1.705 - 30	0.08 @ 30m	-
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

WWAN CONDUCTED REFERENCE DATA LIMITS

FCC: §22.917, §24.238, §27.53

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

In addition, the peak to average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement 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 in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz for WLAN/BLE is investigated with the transmitter set to worst case modes.

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.

Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

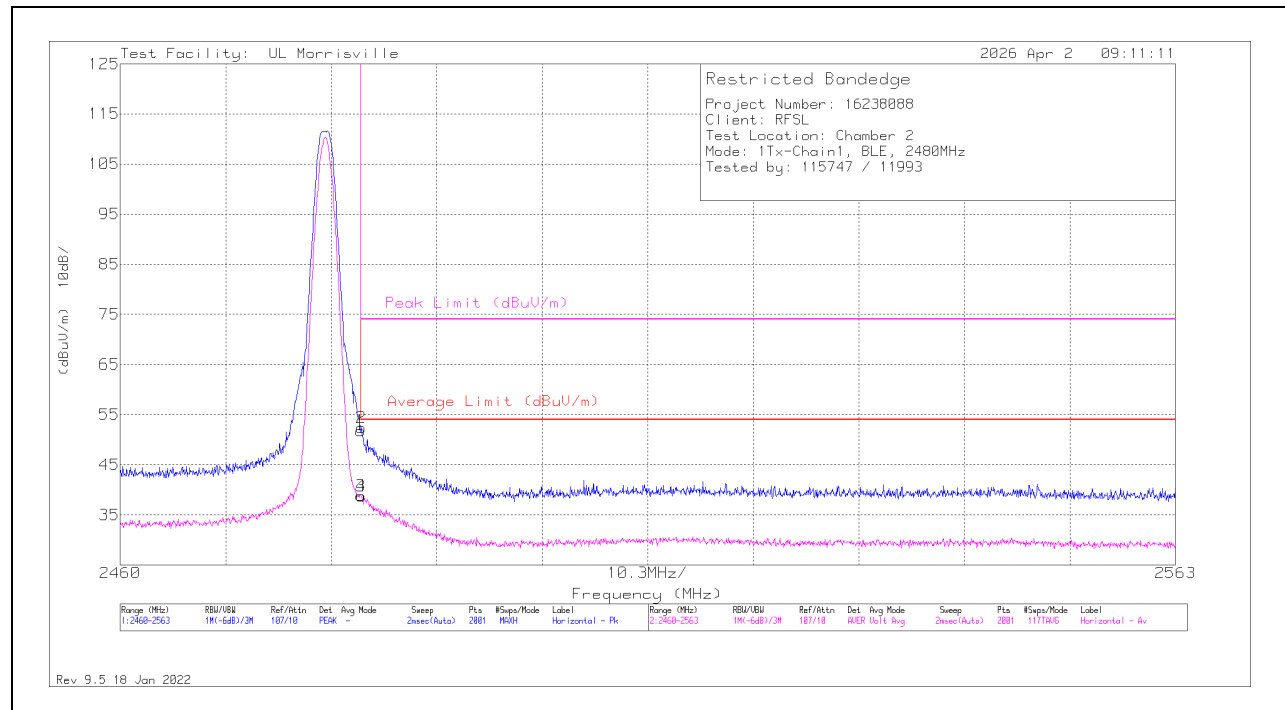
OFS and chamber correlation testing had been performed and the chamber measured test result is the worst-case test result.

10.1. DATA REFERENCING

10.1.1. BLE (DATA REFERENCING) TX ABOVE 1 GHz MODE

REPRESENTATIVE BANDEDGE (2480 MHz)

HORIZONTAL RESULT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/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	* ** 2483.5	44.56	Pk	32.7	-25.5	0	51.76	-	-	74	-22.24	302	126	H
2	* ** 2483.536	45.24	Pk	32.7	-25.5	0	52.44	-	-	74	-21.56	302	126	H
3	* ** 2483.5	30.23	ADV	32.7	-25.5	1.39	38.82	54	-15.18	-	-	302	126	H
4	* ** 2483.536	30.16	ADV	32.7	-25.5	1.39	38.75	54	-15.25	-	-	302	126	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE TEST DATA

Mode	Chain	Fund Freq [MHz]	Meas Freq. (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/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
BLE 1Mbps	1	2480	* ** 2483.5	44.56	Pk	32.7	-25.5	0	51.76	-	-	74	-22.24	302	126	H
			* ** 2483.536	45.24	Pk	32.7	-25.5	0	52.44	-	-	74	-21.56	302	126	H
			* ** 2483.5	30.23	ADV	32.7	-25.5	1.39	38.82	54	-15.18	-	-	302	126	H
			* ** 2483.536	30.16	ADV	32.7	-25.5	1.39	38.75	54	-15.25	-	-	302	126	H
			* ** 2483.5	43.34	Pk	32.7	-25.5	0	50.54	-	-	74	-23.46	95	107	V
			* ** 2483.536	42.96	Pk	32.7	-25.5	0	50.16	-	-	74	-23.84	95	107	V
			* ** 2483.5	28.34	ADV	32.7	-25.5	1.39	36.93	54	-17.07	-	-	95	106	V
			* ** 2483.536	28.75	ADV	32.7	-25.5	1.39	37.34	54	-16.66	-	-	95	106	V
	MIMO		* ** 2.48354	46.84	Pk	32.3	-24.4	0	54.74	-	-	74	-19.26	261	107	H
			* ** 2.48364	45.79	Pk	32.3	-24.4	0	53.69	-	-	74	-20.31	261	107	H
			* ** 2.48354	25.2	ADV	32.3	-24.4	1.39	34.49	54	-19.51	-	-	261	107	H
			* ** 2.48369	25.65	ADV	32.3	-24.4	1.39	34.94	54	-19.06	-	-	261	107	H
			* ** 2.48354	45.68	Pk	32.3	-24.4	0	53.58	-	-	74	-20.42	97	362	V
			* ** 2.48369	45.2	Pk	32.3	-24.4	0	53.1	-	-	74	-20.9	97	362	V
			* ** 2.48354	25.28	ADV	32.3	-24.4	1.39	34.57	54	-19.43	-	-	97	362	V
			* ** 2.48369	25.1	ADV	32.3	-24.4	1.39	34.39	54	-19.61	-	-	97	362	V

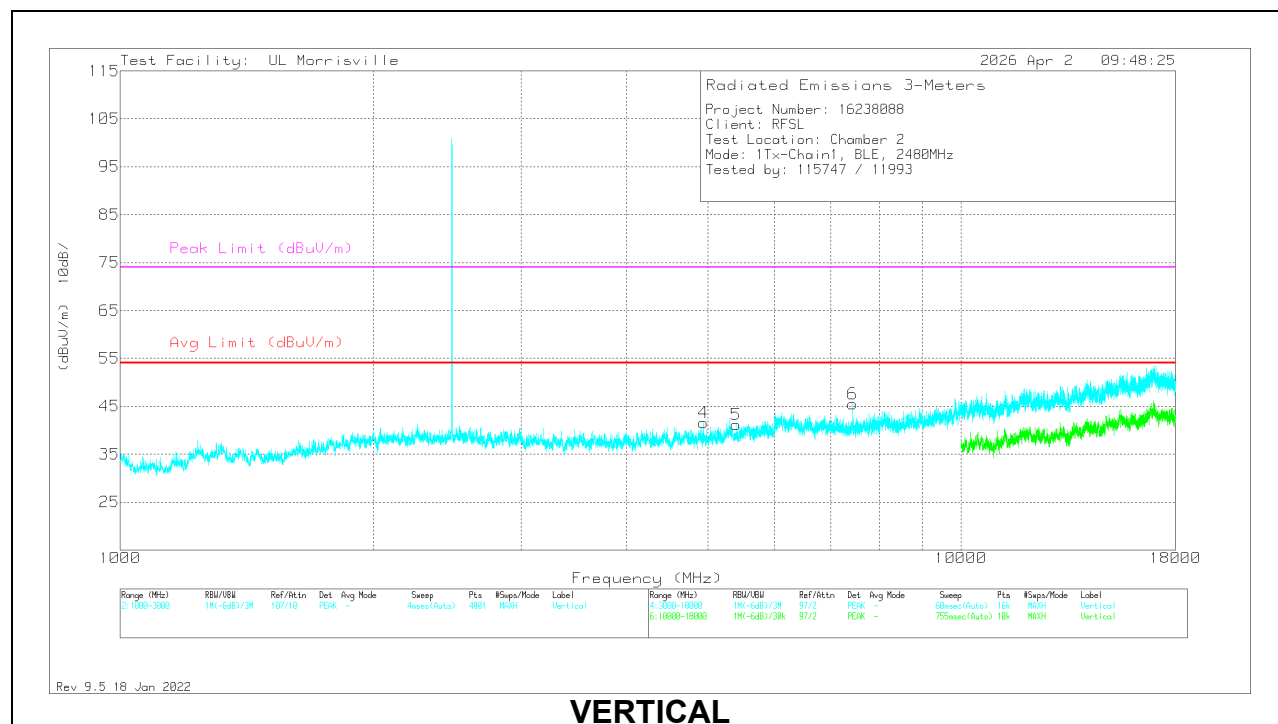
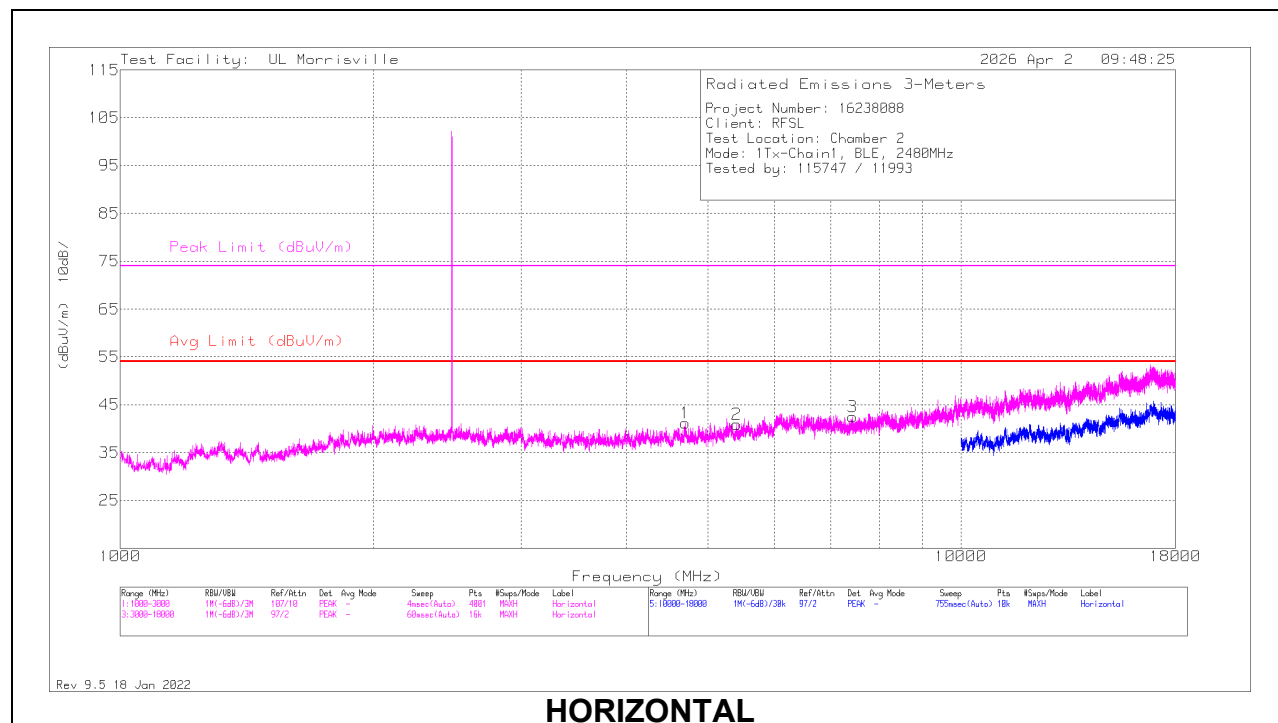
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS (Chain 1, 125kbps, 2480 MHz)



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4702.5	51.7	Pk	34.1	-44.6	0	41.2	54	-12.8	74	-32.8	0-360	101	H
2	* ** 5412.188	50.34	Pk	34.5	-43.9	0	40.94	54	-13.06	74	-33.06	0-360	101	H
3	* ** 7440.834	51.89	PK2	35.5	-42.6	0	44.79	-	-	74	-29.21	168	109	H
	* ** 7440.702	40.83	ADV	35.5	-42.6	.52	34.25	54	-19.75	-	-	168	109	H
4	* ** 4944.375	52.52	Pk	34.1	-45.1	0	41.52	54	-12.48	74	-32.48	0-360	101	V
5	* ** 5406.563	50.7	Pk	34.5	-44	0	41.2	54	-12.8	74	-32.8	0-360	200	V
6	* ** 7439.202	56.23	PK2	35.5	-42.5	0	49.23	-	-	74	-24.77	302	112	V
	* ** 7440.685	47.41	ADV	35.5	-42.6	.52	40.83	54	-13.17	-	-	302	112	V

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

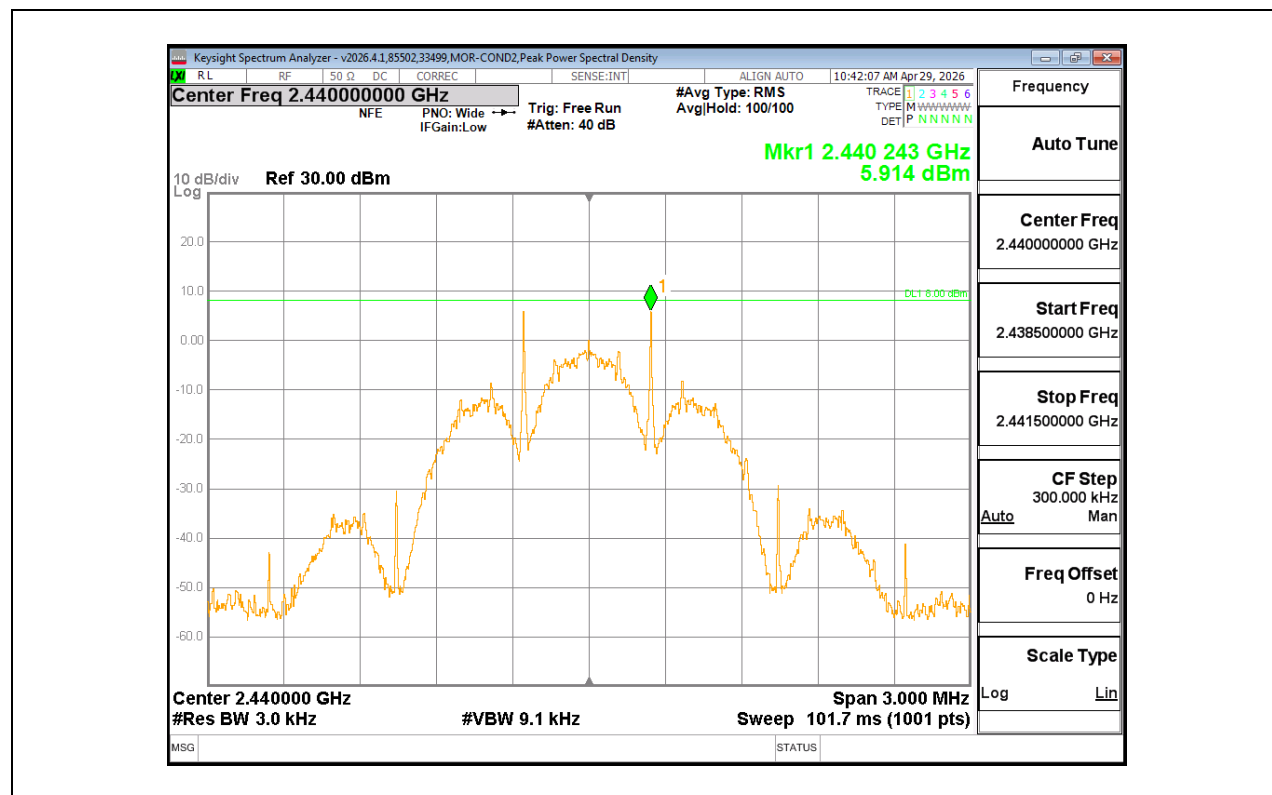
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

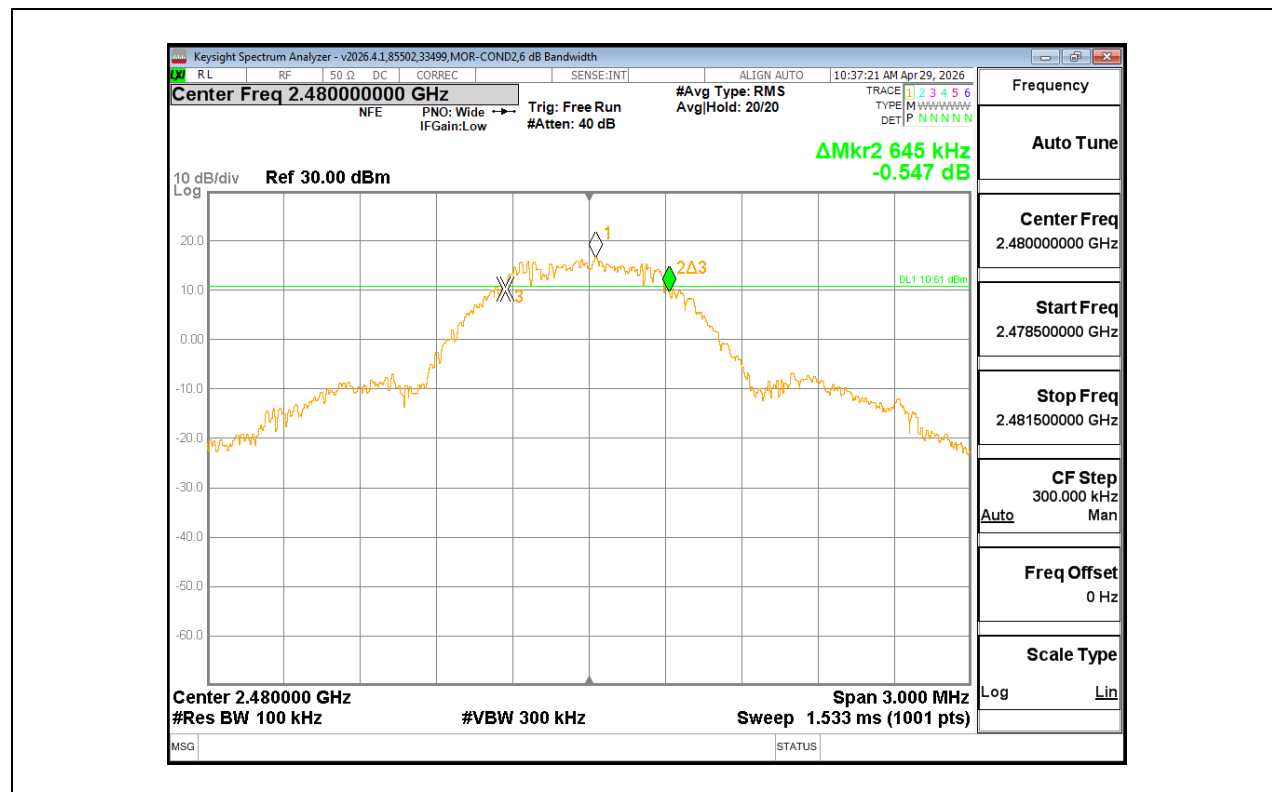
PK2 - Maximum Peak

ADV - Linear Voltage Average

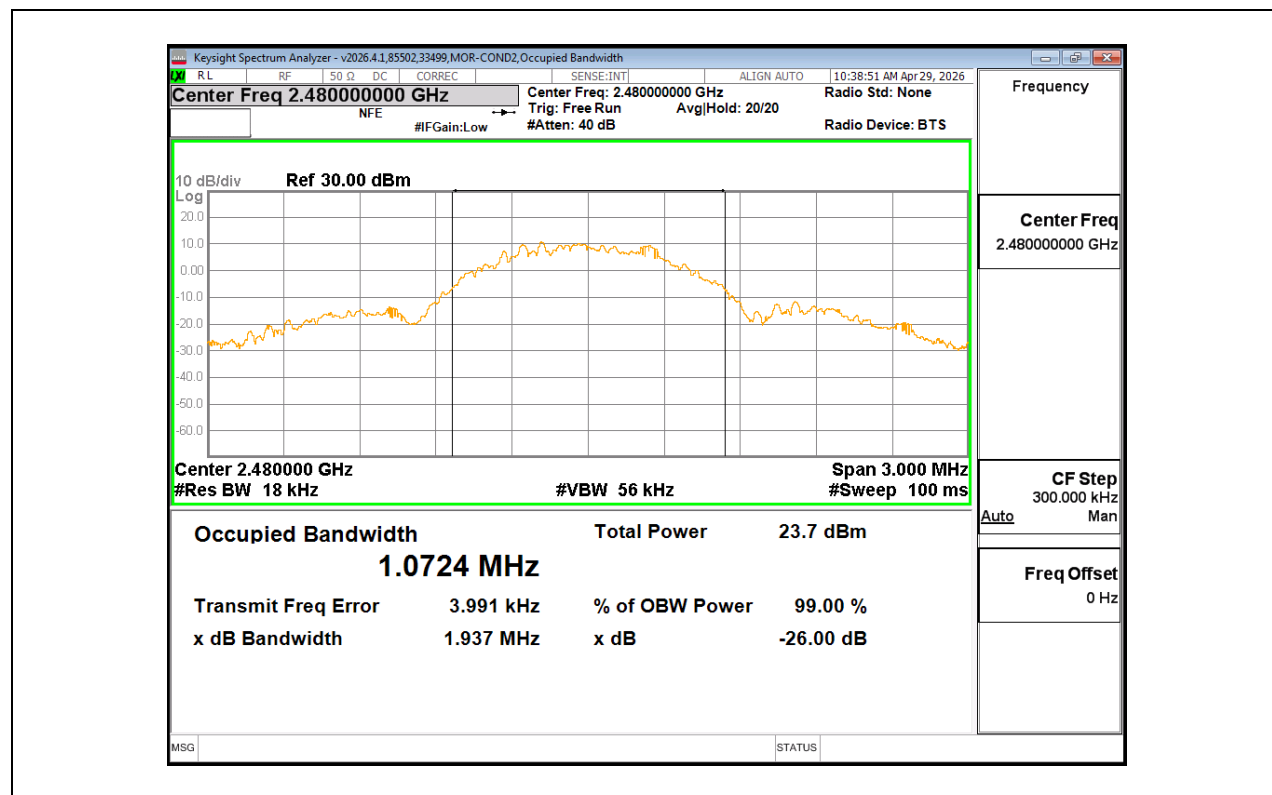
PSD REFERENCE PLOT (Chain 1, 125kbps, 2440 MHz)



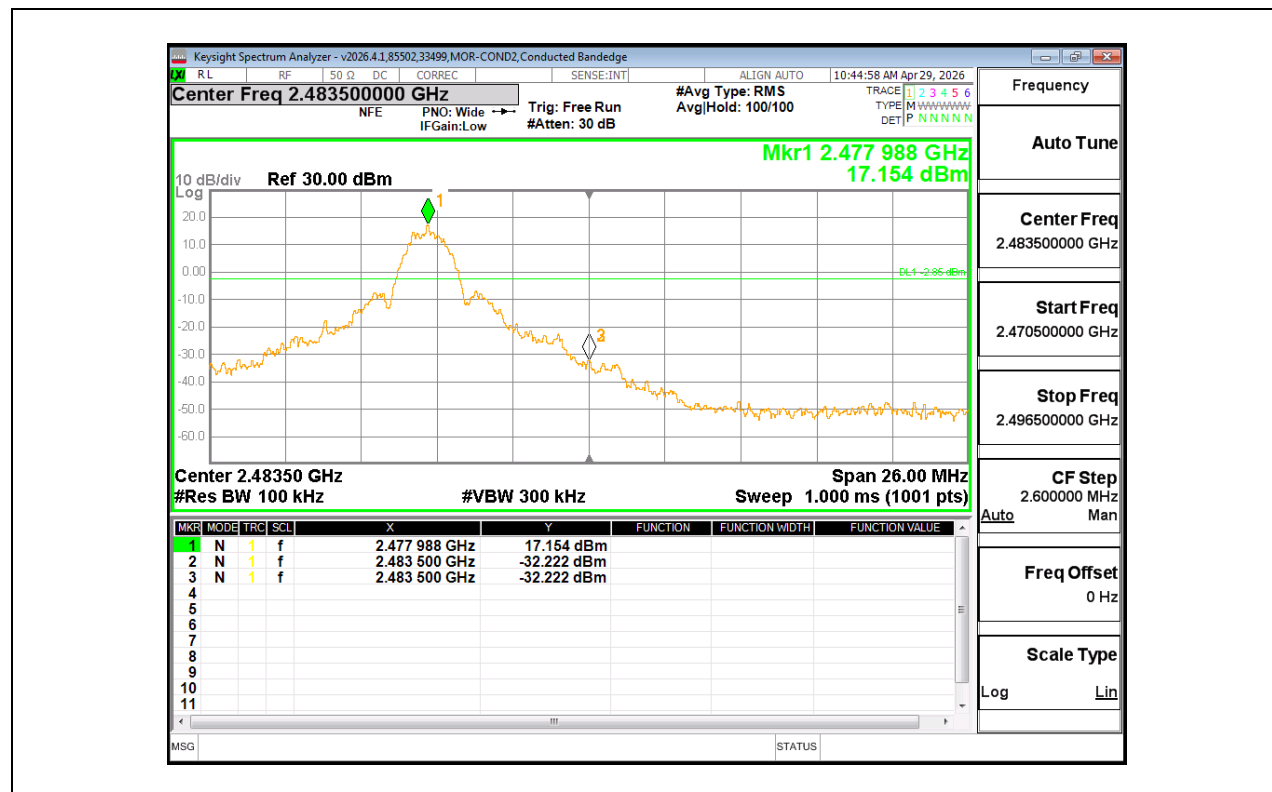
6dB REFERENCE PLOT (Chain 0, 1Mbps, 2480 MHz)



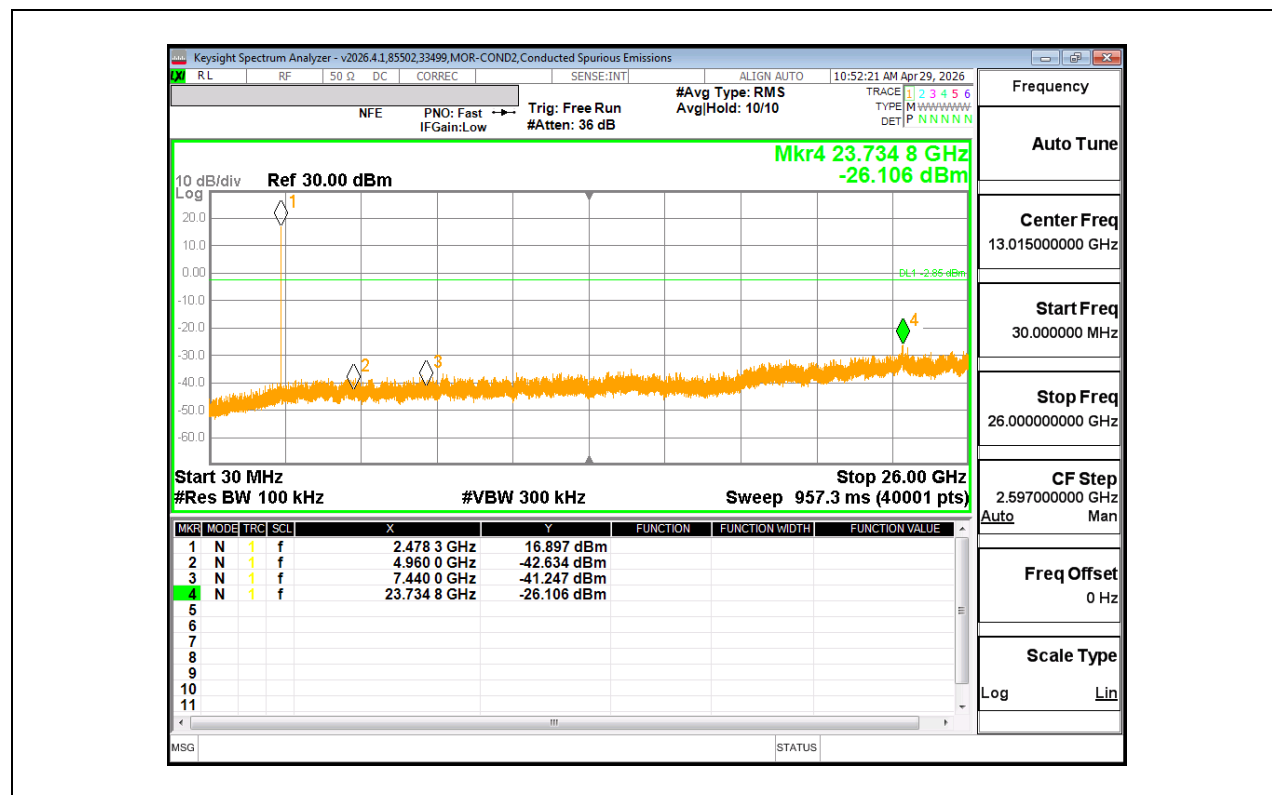
99% BW REFERENCE PLOT (Chain 0, 1Mbps, 2480 MHz)



CBE REFERENCE PLOT (Chain 0, 2Mbps, 2478 MHz)



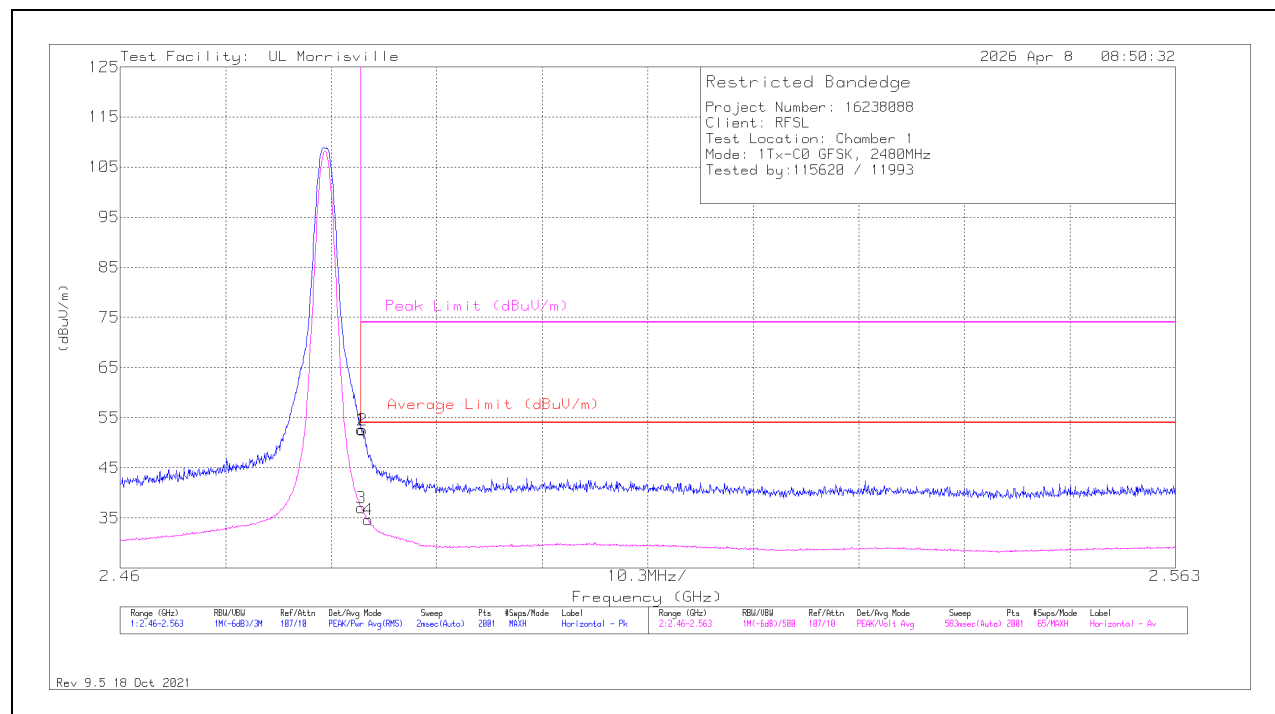
CSPUR REFERENCE PLOT (Chain 0, 2Mbps, 2478 MHz)



10.1.2. BT CLASSIC (DATA REFERENCING) TX ABOVE 1 GHz MODE

REPRESENTATIVE BANDEDGE (2480 MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 ACF (dB)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	44.79	Pk	32.3	-24.4	52.69	-	-	74	-21.31	175	158	H
2	* ** 2.48364	44.67	Pk	32.3	-24.4	52.57	-	-	74	-21.43	175	158	H
3	* ** 2.48354	29.06	V1TV	32.3	-24.4	36.96	54	-17.04	-	-	175	158	H
4	* ** 2.48421	26.74	V1TV	32.3	-24.4	34.64	54	-19.36	-	-	175	158	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

BANDEDGE TEST DATA

Mode	Chain	Fund Freq [MHz]	Meas Freq. (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
BT GFSK	0	2480	*** 2.48354	44.79	Pk	32.3	-24.4	52.69	-	-	74	-21.31	175	158	H
			*** 2.48364	44.67	Pk	32.3	-24.4	52.57	-	-	74	-21.43	175	158	H
			*** 2.48354	29.06	V1TV	32.3	-24.4	36.96	54	-17.04	-	-	175	158	H
			*** 2.48421	26.74	V1TV	32.3	-24.4	34.64	54	-19.36	-	-	175	158	H
			*** 2.48354	39.99	Pk	32.3	-24.4	47.89	-	-	74	-26.11	149	369	V
			*** 2.48364	39.9	Pk	32.3	-24.4	47.8	-	-	74	-26.2	149	369	V
			*** 2.48354	25.27	V1TV	32.3	-24.4	33.17	54	-20.83	-	-	149	369	V
			*** 2.48405	23.88	V1TV	32.3	-24.4	31.78	54	-22.22	-	-	149	369	V
	1		*** 2.48354	42.29	Pk	32.3	-24.4	50.19	-	-	74	-23.81	6	268	H
			*** 2.48431	42.15	Pk	32.3	-24.4	50.05	-	-	74	-23.95	6	268	H
			*** 2.48354	28.13	V1TV	32.3	-24.4	36.03	54	-17.97	-	-	6	268	H
			*** 2.48364	27.92	V1TV	32.3	-24.4	35.82	54	-18.18	-	-	6	268	H
			*** 2.48354	41.37	Pk	32.3	-24.4	49.27	-	-	74	-24.73	253	374	V
			*** 2.48374	39.92	Pk	32.3	-24.4	47.82	-	-	74	-26.18	253	374	V
			*** 2.48354	26.66	V1TV	32.3	-24.4	34.56	54	-19.44	-	-	253	374	V
			*** 2.48364	26.63	V1TV	32.3	-24.4	34.53	54	-19.47	-	-	253	374	V
			*** 2.48354	42.53	Pk	32.3	-24.4	50.43	-	-	74	-23.57	340	372	H
			*** 2.4839	40.47	Pk	32.3	-24.4	48.37	-	-	74	-25.63	340	372	H
			*** 2.48354	23.65	V1TV	32.3	-24.4	31.55	54	-22.45	-	-	340	372	H
			*** 2.48379	23.66	V1TV	32.3	-24.4	31.56	54	-22.44	-	-	340	372	H
			*** 2.48354	45.38	Pk	32.3	-24.4	53.28	-	-	74	-20.72	94	367	V
			*** 2.48364	44.17	Pk	32.3	-24.4	52.07	-	-	74	-21.93	94	367	V
			*** 2.48354	24.79	V1TV	32.3	-24.4	32.69	54	-21.31	-	-	94	367	V
			*** 2.48374	24.46	V1TV	32.3	-24.4	32.36	54	-21.64	-	-	94	367	V

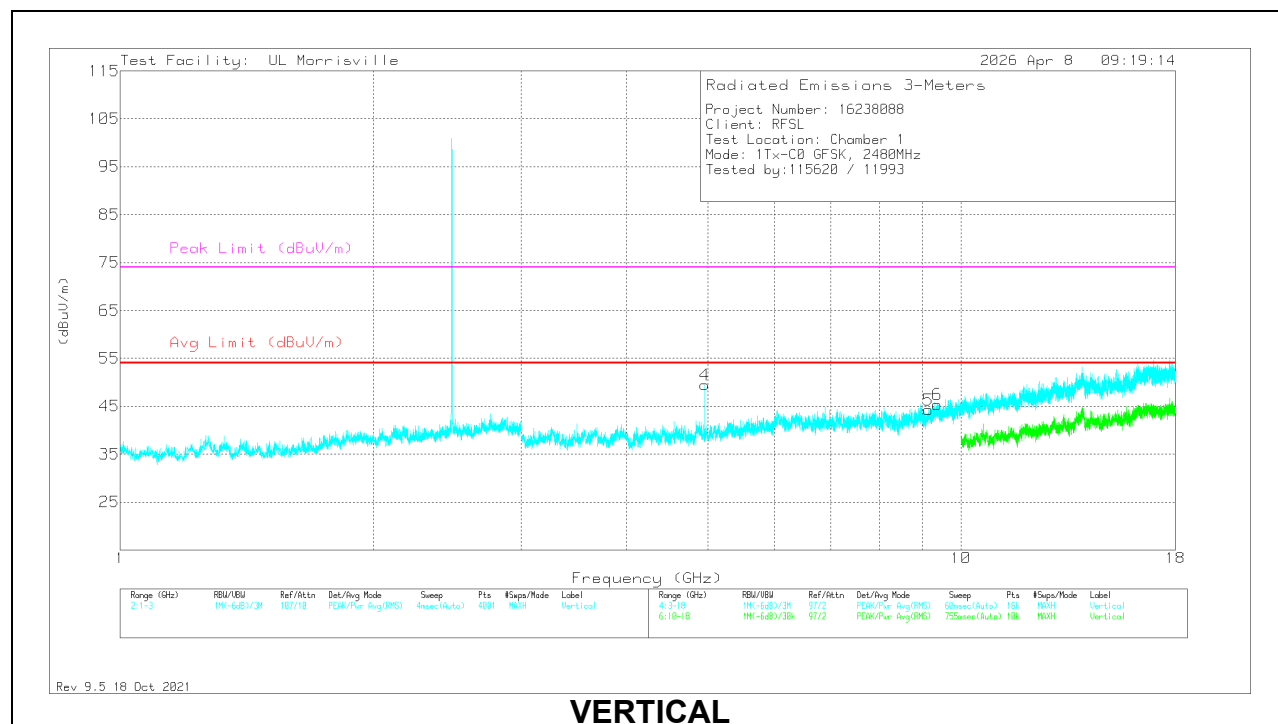
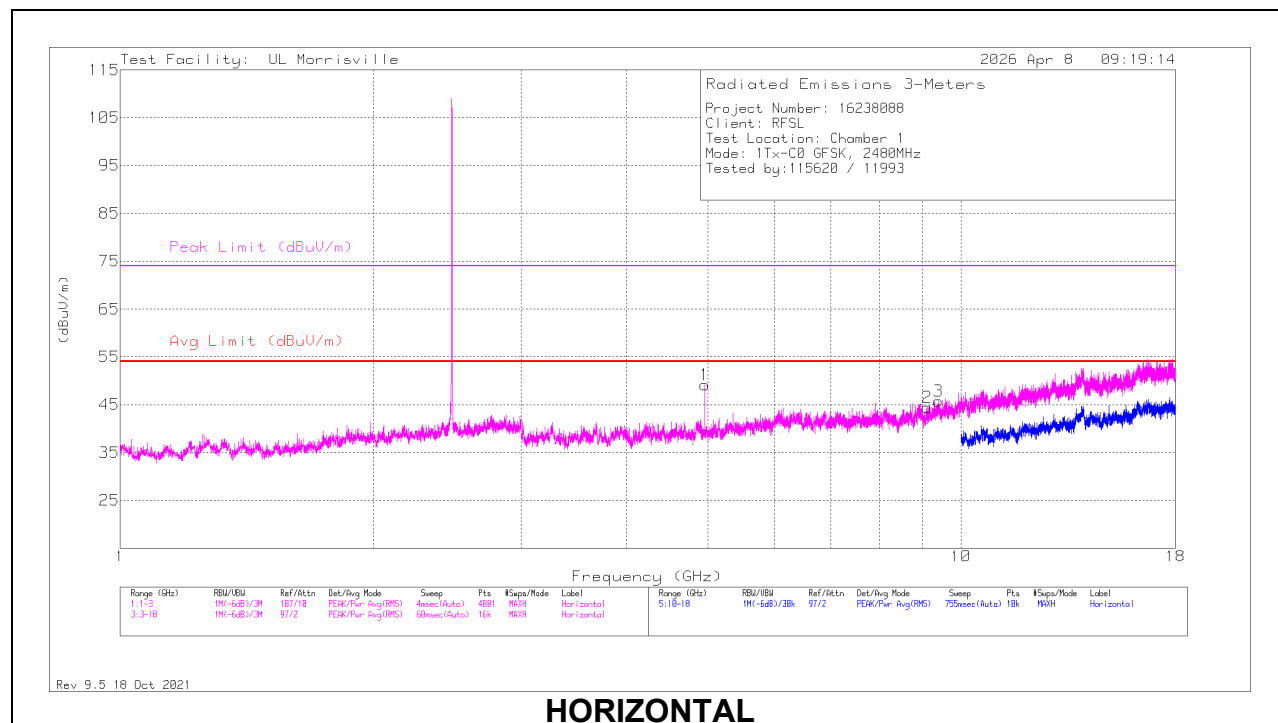
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS (Chain 0, GFSK, 2480 MHz)



RADIATED EMISSIONS

Mode	Chain	Fund Freq [MHz]	Frequency (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
BT GFSK	0	2480	*** 4.95962	62.37	PK2	33.9	-45.7	0	50.57	-	-	74	-23.43	182	108	H
			*** 4.95997	57.41	V1TV	33.9	-45.7	0	45.61	54	-8.39	-	-	182	108	H
			*** 9.11813	49.81	Pk	36.2	-41.6	0	44.41	54	-9.59	74	-29.59	0-360	200	H
			*** 9.40594	49.43	Pk	36.5	-40.2	0	45.73	54	-8.27	74	-28.27	0-360	101	H
			*** 4.95979	63.15	PK2	33.9	-45.7	0	51.35	-	-	74	-22.65	220	109	V
			*** 4.95998	58.51	V1TV	33.9	-45.7	0	46.71	54	-7.29	-	-	220	109	V
			*** 9.14813	48.95	Pk	36.2	-40.9	0	44.25	54	-9.75	74	-29.75	0-360	101	V
			*** 9.37875	49.95	Pk	36.5	-41.1	0	45.35	54	-8.65	74	-28.65	0-360	200	V
	MIMO		*** 7.4395	58.91	PK2	35.6	-42.6	0	51.91	-	-	74	-22.09	159	103	H
			*** 7.4395	58.91	PK2	35.6	-42.6	-24	27.91	54	-26.09	-	-	159	103	H
			*** 9.14625	49.65	Pk	36.2	-41.1	0	44.75	54	-9.25	74	-29.25	0-360	200	H
			*** 9.34406	49.97	Pk	36.4	-40.5	0	45.87	54	-8.13	74	-28.13	0-360	200	H
			*** 7.43962	65.88	PK2	35.6	-42.6	0	58.88	-	-	74	-15.12	324	110	V
			*** 7.43962	65.88	PK2	35.6	-42.6	-24	34.88	54	-19.12	-	-	324	110	V
			*** 9.18	50.02	Pk	36.3	-41.1	0	45.22	54	-8.78	74	-28.78	0-360	200	V
			*** 9.40406	49.73	Pk	36.5	-40.3	0	45.93	54	-8.07	74	-28.07	0-360	101	V

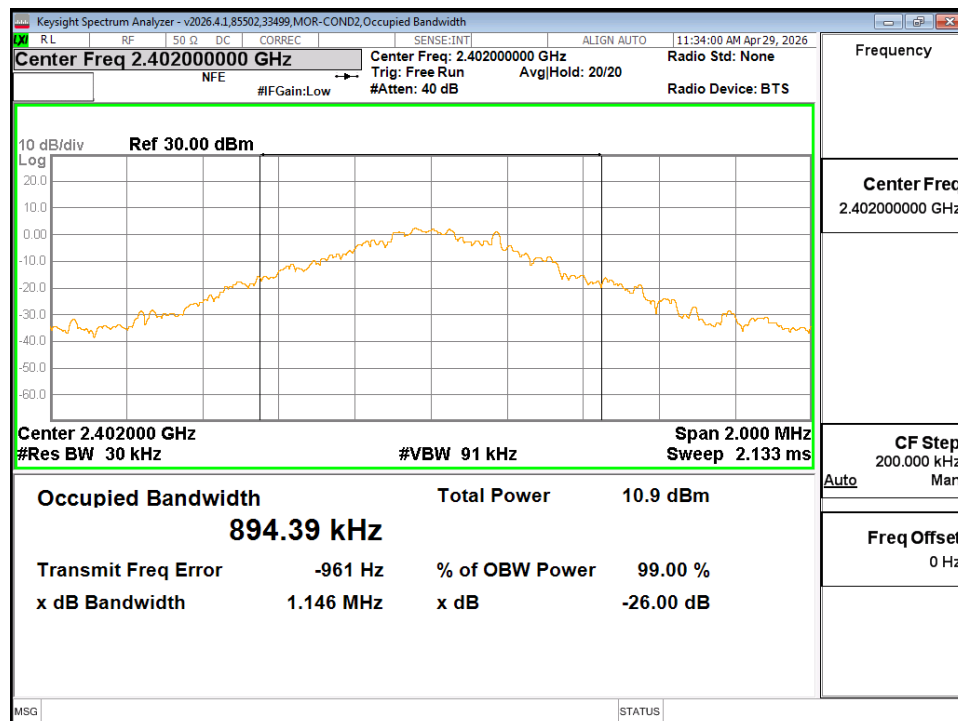
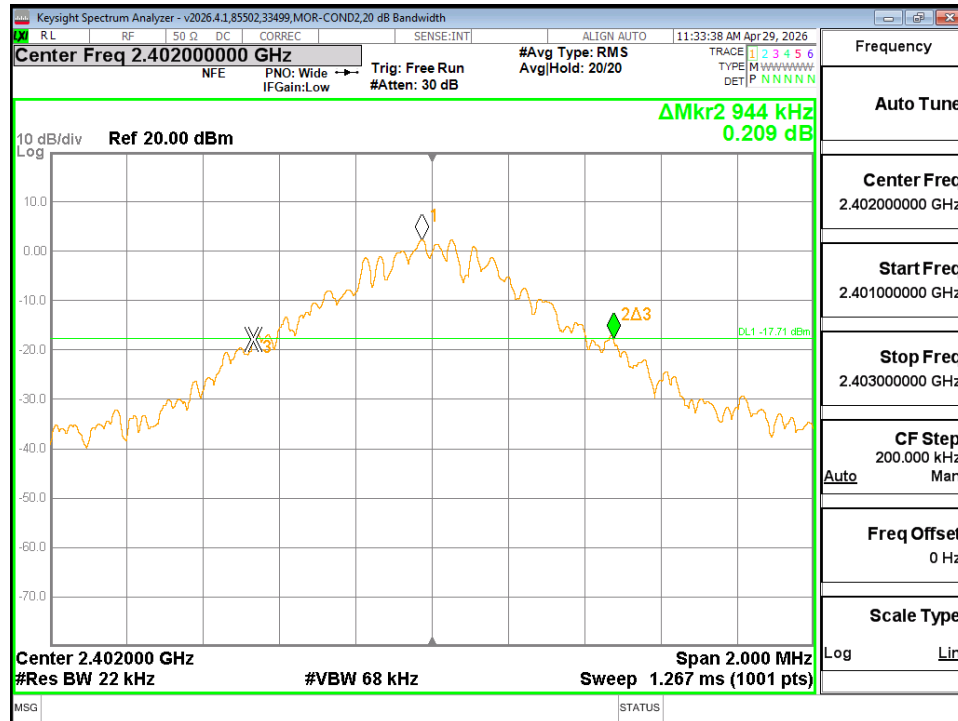
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

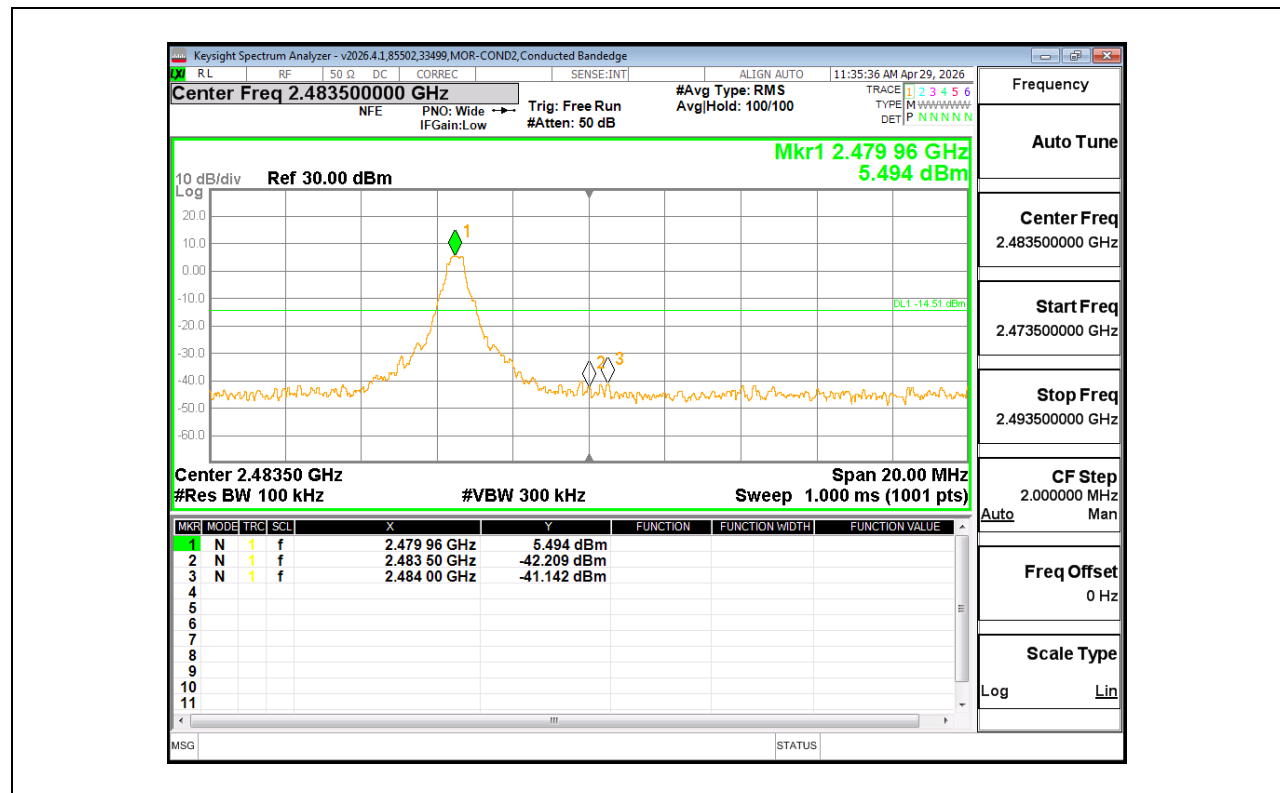
Pk - Peak detector

PK2 - Maximum Peak

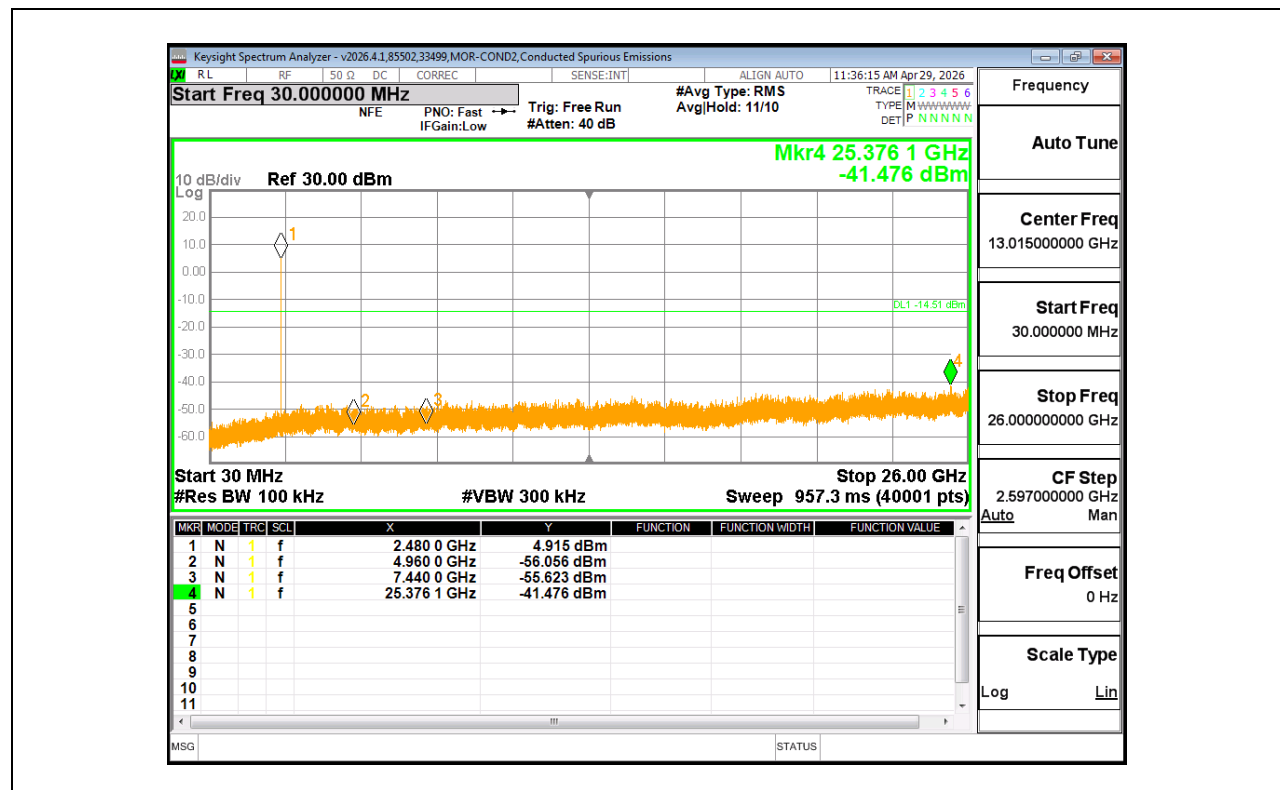
V1TV - $V_B = 1/T_{on}$, Linear Voltage Average where: T_{on} is packet duration



CBE REFERENCE PLOT (Chain 0, GFSK, 2480 MHz)



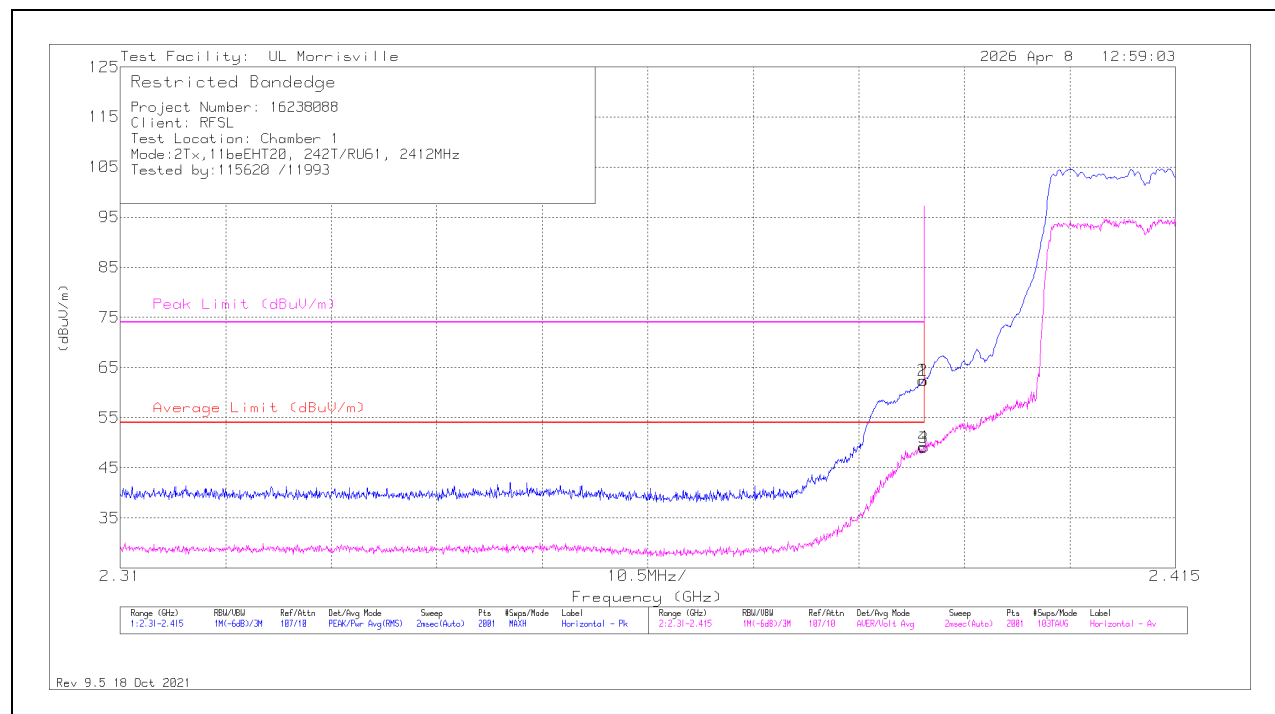
CSPUR REFERENCE PLOT (Chain 0, GFSK, 2480 MHz)



10.1.3. 2.4 WLAN (DATA REFERENCING) TX ABOVE 1 GHz MODE

REPRESENTATIVE BANDEDGE (11beEHT20 242T/RU61 MIMO, 2412 MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 ACF (dB)	Gain/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	*** 2.38996	55.45	Pk	32.1	-25.1	0	62.45	-	-	74	-11.55	269	103	H
2	*** 2.38985	55.45	Pk	32.1	-25.1	0	62.45	-	-	74	-11.55	269	103	H
3	*** 2.38996	41.7	ADV	32.1	-25.1	.27	48.97	54	-5.03	-	-	269	103	H
4	*** 2.38991	41.94	ADV	32.1	-25.1	.27	49.21	54	-4.79	-	-	269	103	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE TEST DATA

Mode	Chain	Fund Freq [MHz]	Meas Freq. (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/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
11beEHT20	MIMO	2412	* ** 2.38996	55.45	Pk	32.1	-25.1	0	62.45	-	-	74	-11.55	269	103	H
			* ** 2.38985	55.45	Pk	32.1	-25.1	0	62.45	-	-	74	-11.55	269	103	H
			* ** 2.38996	41.7	ADV	32.1	-25.1	.27	48.97	54	-5.03	-	-	269	103	H
			* ** 2.38991	41.94	ADV	32.1	-25.1	.27	49.21	54	-4.79	-	-	269	103	H
			* ** 2.38996	51.56	Pk	32.1	-25.1	0	58.56	-	-	74	-15.44	213	400	V
			* ** 2.38991	51.7	Pk	32.1	-25.1	0	58.7	-	-	74	-15.3	213	400	V
			* ** 2.38996	37.99	ADV	32.1	-25.1	.27	45.26	54	-8.74	-	-	213	400	V
			* ** 2.38985	38.04	ADV	32.1	-25.1	.27	45.31	54	-8.69	-	-	213	400	V

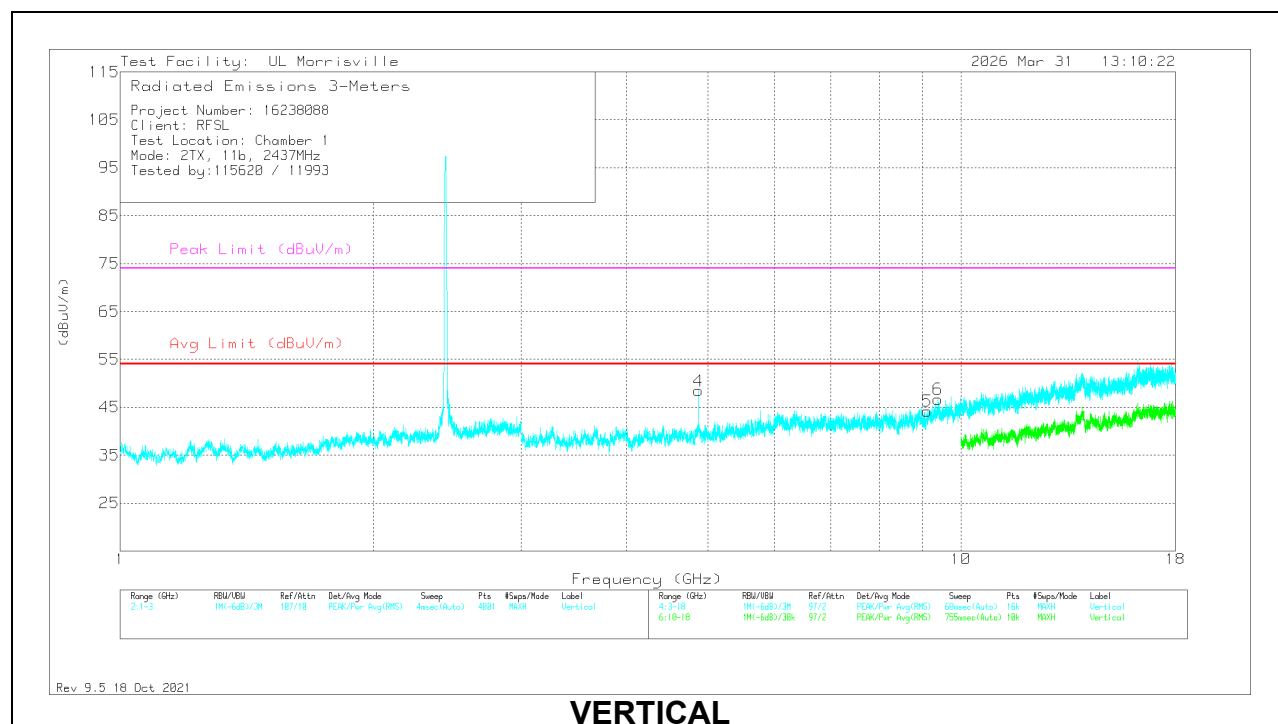
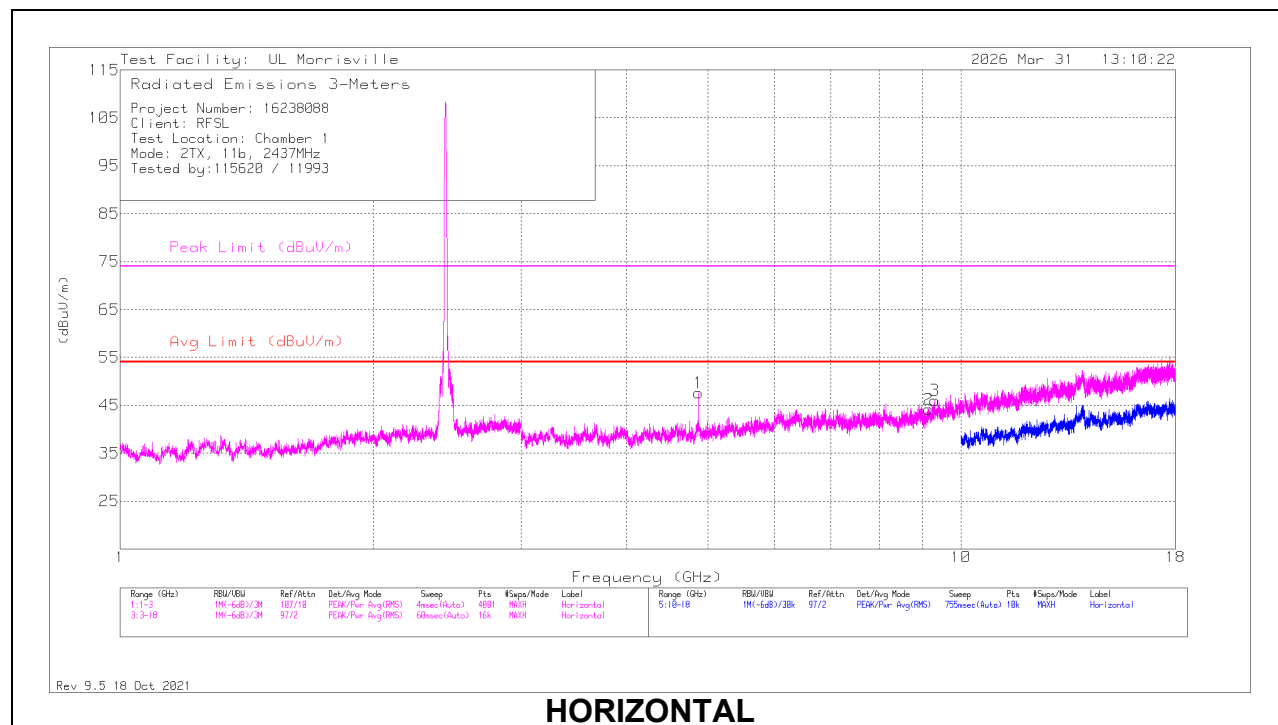
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS (11b, 2437MHz, MIMO)



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 ACF (dB)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.87406	59.02	Pk	34.1	-45.5	0	47.62	54	-6.38	74	-26.38	0-360	101	H
2	* ** 9.14531	49.13	Pk	36.2	-41.2	0	44.13	54	-9.87	74	-29.87	0-360	199	H
3	* ** 9.30375	49.8	Pk	36.3	-40.1	0	46	54	-8	74	-28	0-360	199	H
4	* ** 4.87393	61.96	PK2	34.1	-45.5	0	50.56	-	-	74	-23.44	56	103	V
	* ** 4.87399	57.95	ADV	34.1	-45.5	.19	46.74	54	-7.26	-	-	56	103	V
5	* ** 9.12656	49.73	Pk	36.2	-41.7	0	44.23	54	-9.77	74	-29.77	0-360	200	V
6	* ** 9.3975	50.88	Pk	36.5	-40.7	0	46.68	54	-7.32	74	-27.32	0-360	200	V

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

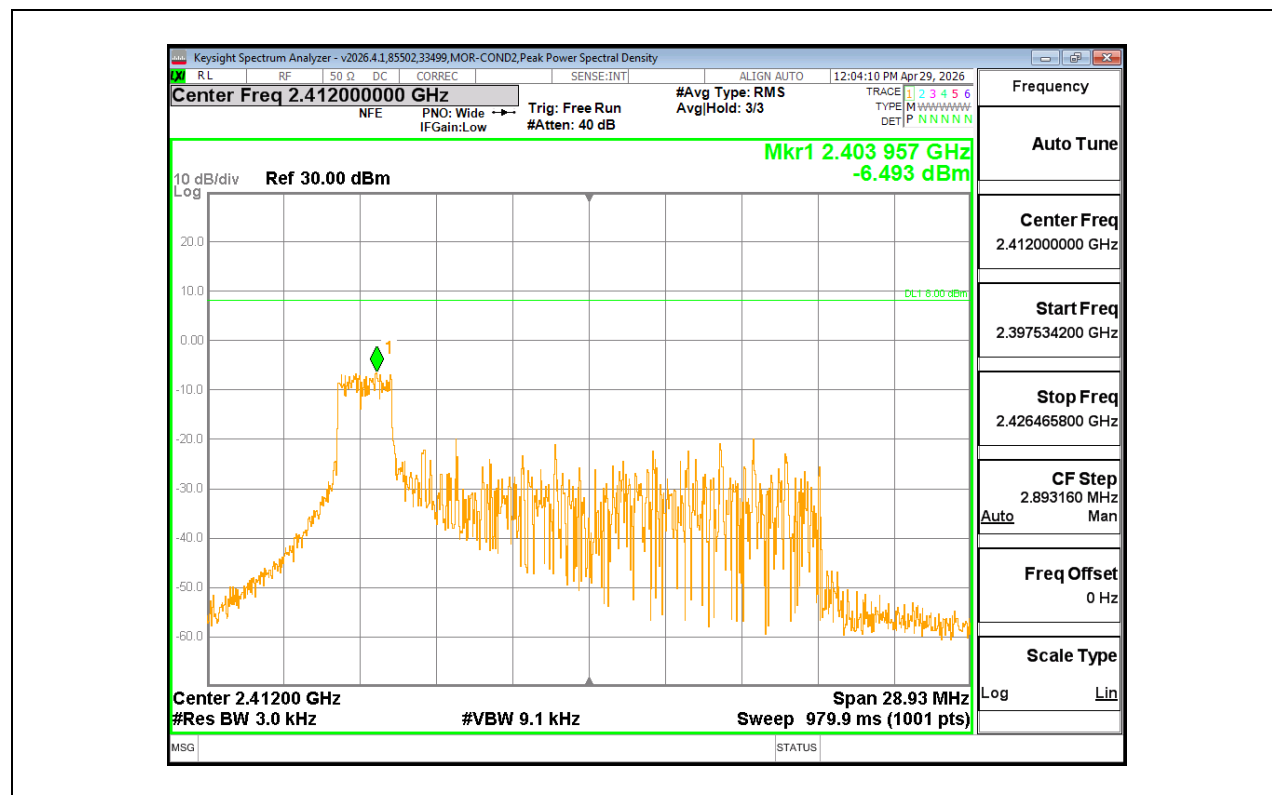
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

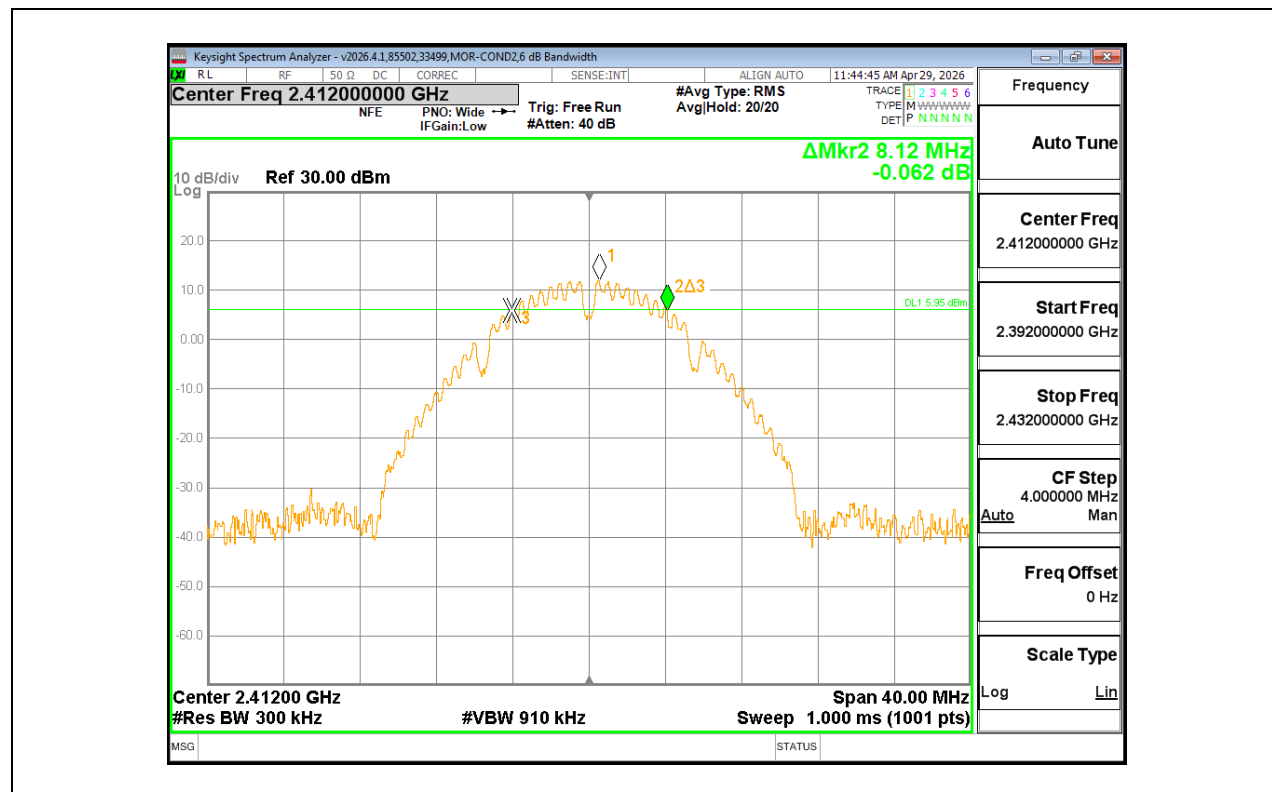
PK2 - Maximum Peak

ADV - Linear Voltage Average

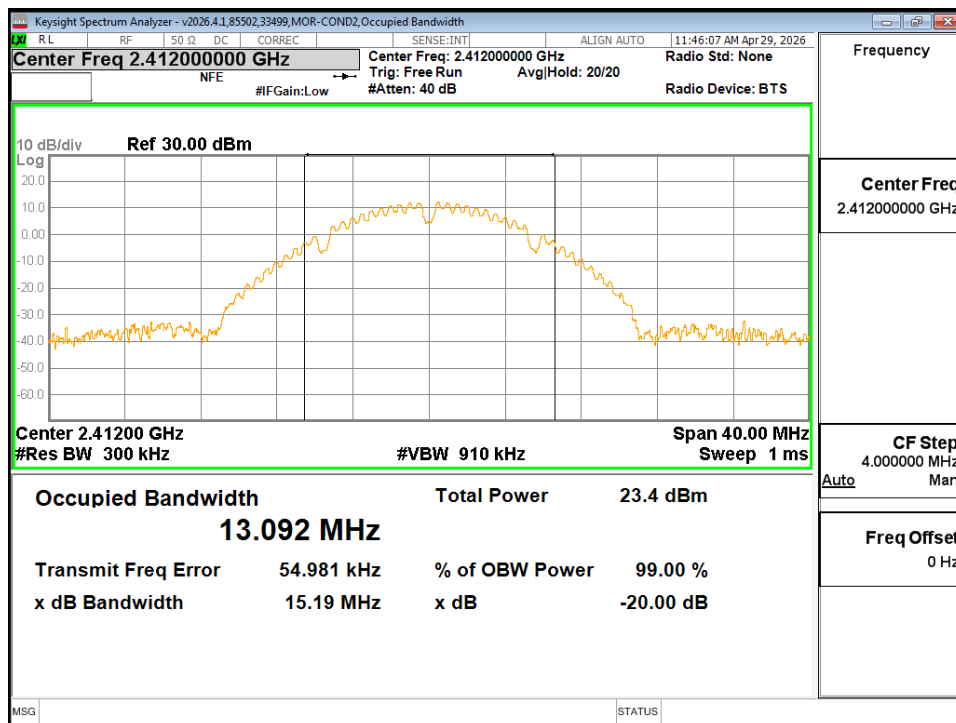
PSD REFERENCE PLOT (MIMO, 11be EHT20 26T RU0, 2412 MHz)



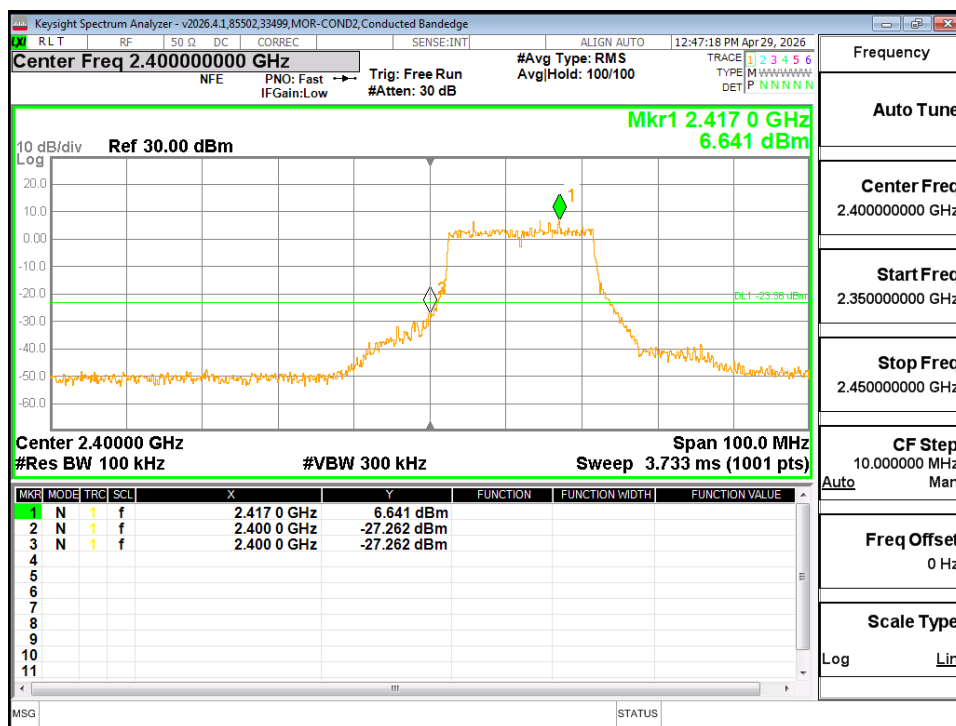
6dB REFERENCE PLOT (MIMO, 11b, 2412 MHz)



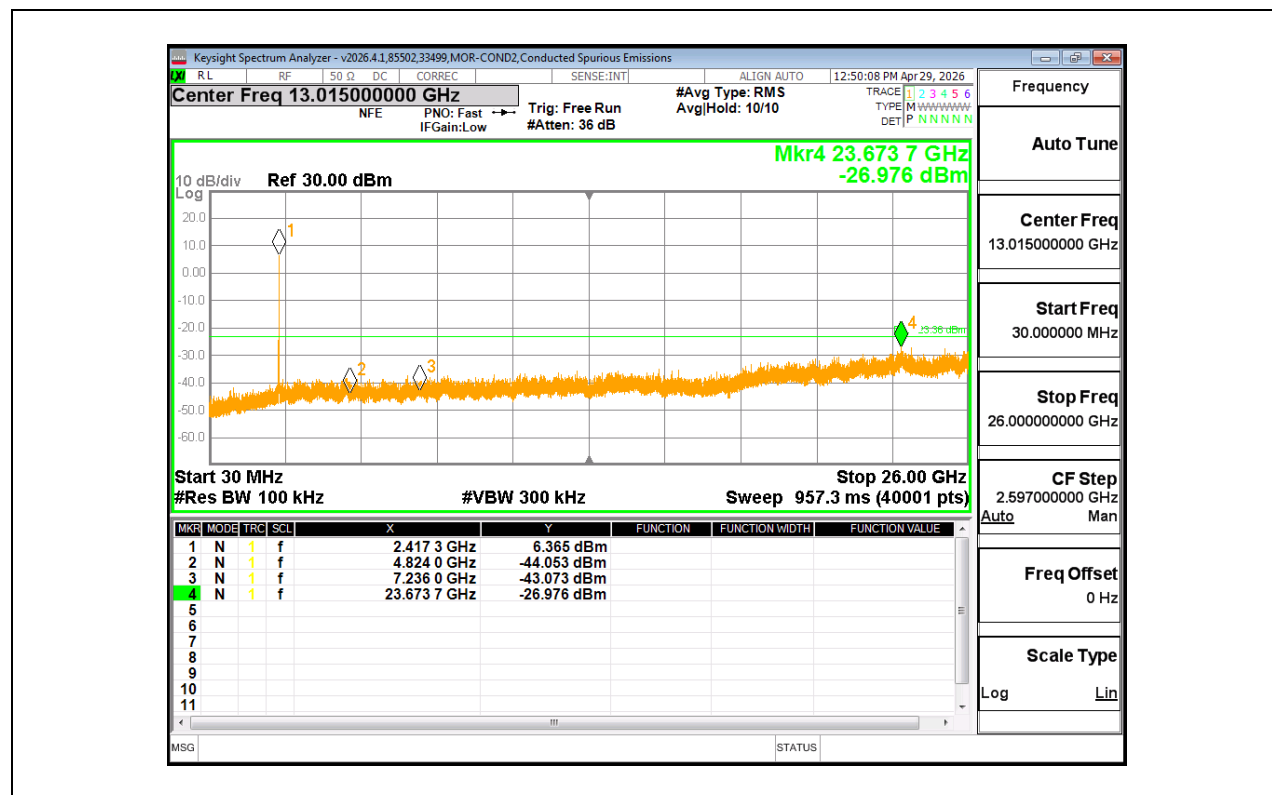
99% BW REFERENCE PLOT (MIMO, 11b, 2412 MHz)



CBE REFERENCE PLOT (MIMO, 11be EHT20 242T, 2412 MHz)



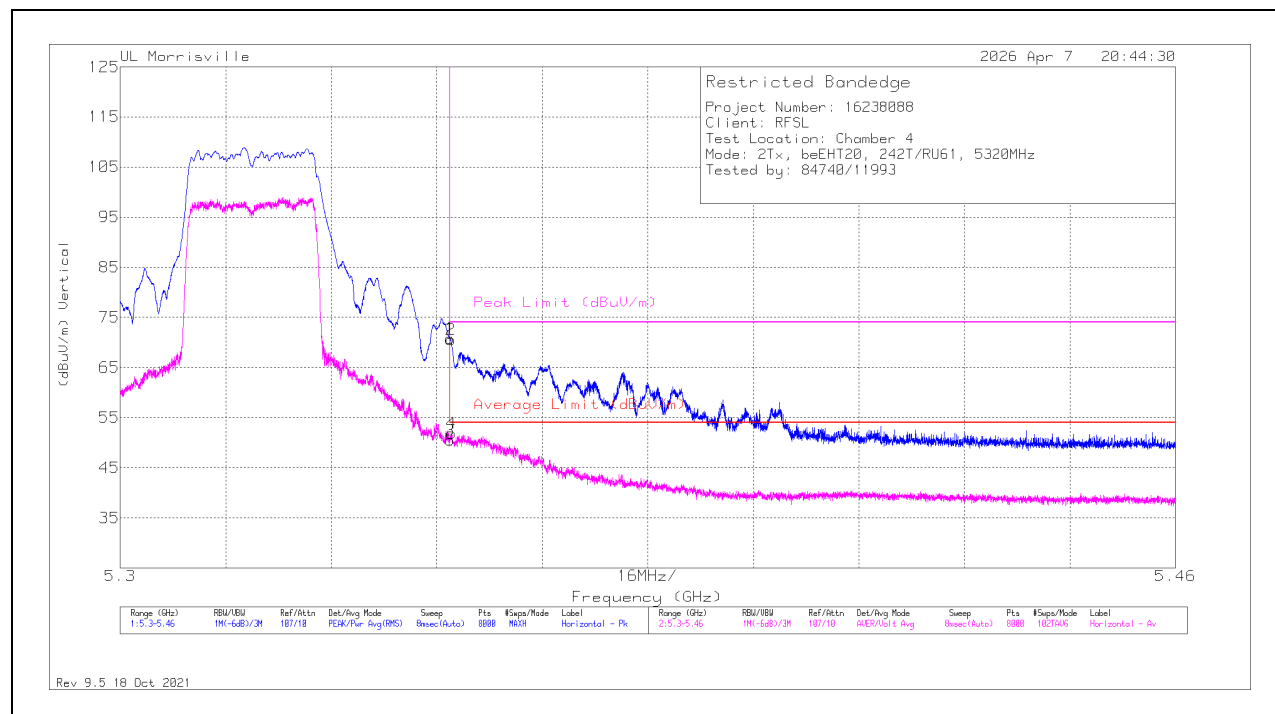
CSPUR REFERENCE PLOT (MIMO, 11be EHT20 242T, 2412 MHz)



10.1.4. 5 WLAN (DATA REFERENCING) TX ABOVE 1 GHz MODE

REPRESENTATIVE BANDEDGE (11beEHT20 242T/RU61 MIMO, 5320 MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/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	*** 5.35001	55.23	Pk	34.4	-18.8	0	70.83	-	-	74	-3.17	92	103	H
2	*** 5.35013	54.94	Pk	34.4	-18.8	0	70.54	-	-	74	-3.46	92	103	H
3	*** 5.35001	34.63	ADV	34.4	-18.8	.24	50.47	54	-3.53	-	-	92	103	H
4	*** 5.35029	35.91	ADV	34.4	-18.7	.24	51.85	54	-2.15	-	-	92	103	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE TEST DATA

Mode	Chain	Fund Freq [MHz]	Meas Freq. (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/ Loss (dB)	Conv Factor (dB)	Pad	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
11beEHT16 0 996T+484T +242T /RU1098	MIMO	5250	*** 5.14999	47.49	Pk	34.3	-22.6	0		0	59.19	-	-	74	-14.81	43	115	H
			*** 5.14259	51.87	Pk	34.3	-22.9	0		0	63.27	-	-	74	-10.73	43	115	H
			*** 5.14999	36.34	ADV	34.3	-22.6	0		0	48.04	54	-5.96	-	-	43	115	H
			*** 5.14954	37.21	ADV	34.3	-22.7	0		0	48.81	54	-5.19	-	-	43	115	H
			*** 5.14999	47.64	Pk	34.3	-22.6	0		0	59.34	-	-	74	-14.66	108	225	V
			*** 5.1461	52.62	Pk	34.3	-22.8	0		0	64.12	-	-	74	-9.88	108	225	V
			*** 5.14999	36.57	ADV	34.3	-22.6	0		0	48.27	54	-5.73	-	-	108	225	V
*** 5.14974		37.99	ADV	34.3	-22.7	0		0	49.59	54	-4.41	-	-	108	225	V		
11beEHT20 242T/RU61		5320	*** 5.35001	55.23	Pk	34.4	-18.8	0		0	70.83	-	-	74	-3.17	92	103	H
			*** 5.35013	54.94	Pk	34.4	-18.8	0		0	70.54	-	-	74	-3.46	92	103	H
			*** 5.35001	34.63	ADV	34.4	-18.8	0		.24	50.47	54	-3.53	-	-	92	103	H
			*** 5.35029	35.91	ADV	34.4	-18.7	0		.24	51.85	54	-2.15	-	-	92	103	H
			*** 5.35001	43.18	Pk	34.4	-18.8	0		0	58.78	-	-	74	-15.22	225	275	V
			*** 5.35245	47	Pk	34.4	-18.7	0		0	62.7	-	-	74	-11.3	225	275	V
			*** 5.35001	29.34	ADV	34.4	-18.8	0		.24	45.18	54	-8.82	-	-	225	275	V
*** 5.35181		31.07	ADV	34.4	-18.7	0		.24	47.01	54	-6.99	-	-	225	275	V		
11a		5510	*** 5460	37.71	Pk	34.6	-24.4	0	10	0	57.91	-	-	68.2	-10.29	89	120	H
			*** 5459.281	40.87	Pk	34.6	-24.4	0	10	0	61.07	-	-	74	-12.93	89	120	H
			*** 5460	25.96	ADV	34.6	-24.4	0	10	0	46.16	54	-7.84	-	-	89	120	H
			*** 5459.893	26.75	ADV	34.6	-24.4	0	10	0	46.95	54	-7.05	-	-	89	120	H
			*** 5459.893	26.75	ADV	34.6	-24.4	0	10	0	46.95	54	-7.05	-	-	89	120	H
			5466.107	45.48	Pk	34.6	-24.2	0	10	0	65.88	-	-	68.2	-2.32	89	120	H
			5470	42.71	Pk	34.6	-24	0	10	0	63.31	-	-	68.2	-4.89	89	120	H
			5470	30.06	ADV	34.6	-24	0	10	0	50.66	-	-	-	-	89	120	H
			*** 5460	33.49	Pk	34.6	-24.4	0	10	0	53.69	-	-	68.2	-14.51	148	316	V
			*** 5458.865	36.28	Pk	34.6	-24.5	0	10	0	56.38	-	-	74	-17.62	148	316	V
			*** 5460	23.1	ADV	34.6	-24.4	0	10	.94	44.24	54	-9.76	-	-	148	316	V
			*** 5442.544	22.63	ADV	34.6	-23.2	0	10	.94	44.97	54	-9.03	-	-	148	316	V
			*** 5442.544	22.63	ADV	34.6	-23.2	0	10	.94	44.97	54	-9.03	-	-	148	316	V
			5466.675	40.61	Pk	34.6	-24.2	0	10	0	61.01	-	-	68.2	-7.19	148	316	V
			5470	37.33	Pk	34.6	-24	0	10	0	57.93	-	-	68.2	-10.27	148	316	V
			5470	25	ADV	34.6	-24	0	10	.94	46.54	-	-	-	-	148	316	V
			11beEHT16 0 996T+484T _C_RU1095	5815	5632.192	-52.07	Pk	34.7	-23.7	11.8	0	0	-29.27	NA	NA	-27	-2.27	348
5725		-45.35			Pk	34.8	-23.5	11.8	0	0	-22.25	NA	NA	27	-49.25	348	126	H
5646.063		-55.62			Pk	34.7	-23.8	11.8	0	0	-32.92	NA	NA	-27	-5.92	179	265	V
5725		-53.49			Pk	34.8	-23.5	11.8	0	0	-30.39	NA	NA	27	-57.39	179	265	V
11beHT20 242T RU61		5885	5895	-16.67	Pk	35.1	-24.1	11.8	0	0	6.13	15	-8.87	-	-	103	120	H
			5895	-32.1	RMS	35.1	-24.1	11.8	0	.12	-9.18	-	-	-5	-4.18	103	120	H
			5895.036	-16.6	Pk	35.1	-24.1	11.8	0	0	6.2	14.97	-8.77	-	-	103	120	H
			5895.111	-32.59	RMS	35.1	-24.1	11.8	0	.12	-9.67	-	-	-5.08	-4.59	103	120	H
			5895	-29.26	Pk	35.1	-24.1	11.8	0	0	-6.46	15	-21.46	-	-	9	104	V
			5895	-39.85	RMS	35.1	-24.1	11.8	0	.12	-16.93	-	-	-5	-11.93	9	104	V
			5895.011	-40.01	RMS	35.1	-24.1	11.8	0	.12	-17.09	-	-	-5.01	-12.08	9	104	V
			5895.036	-29.29	Pk	35.1	-24.1	11.8	0	0	-6.49	14.97	-21.46	-	-	9	104	V

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

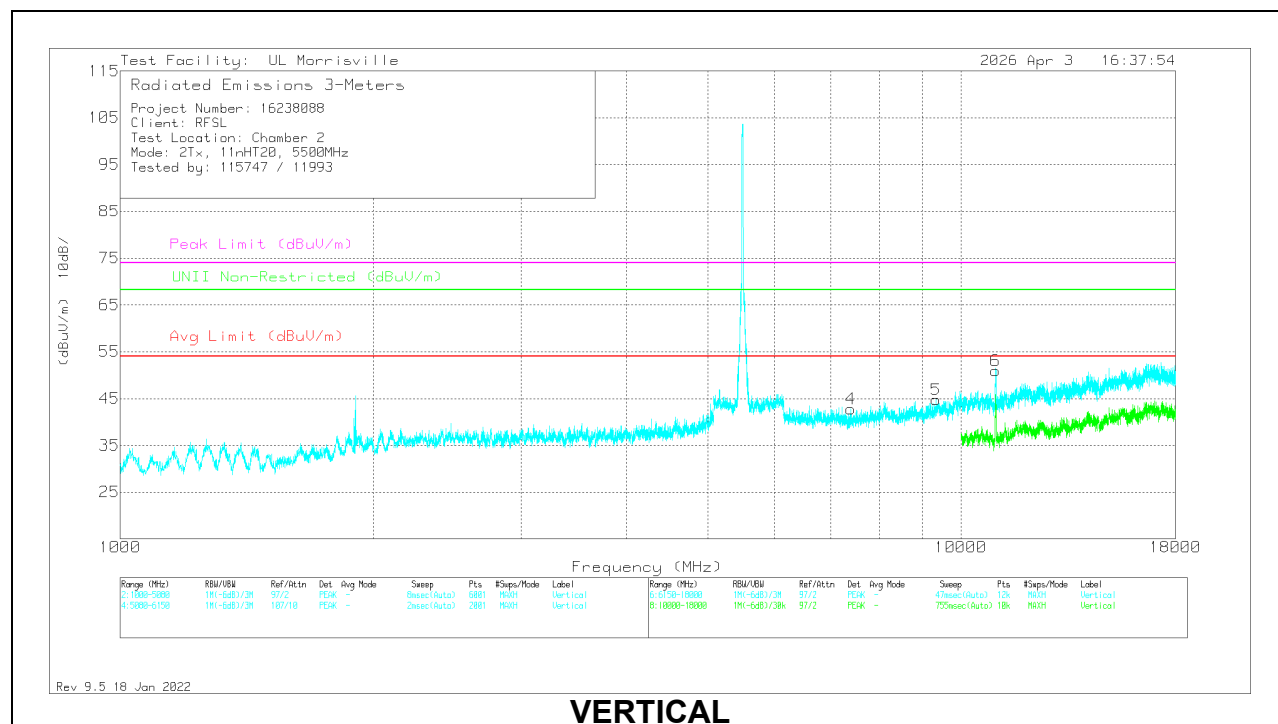
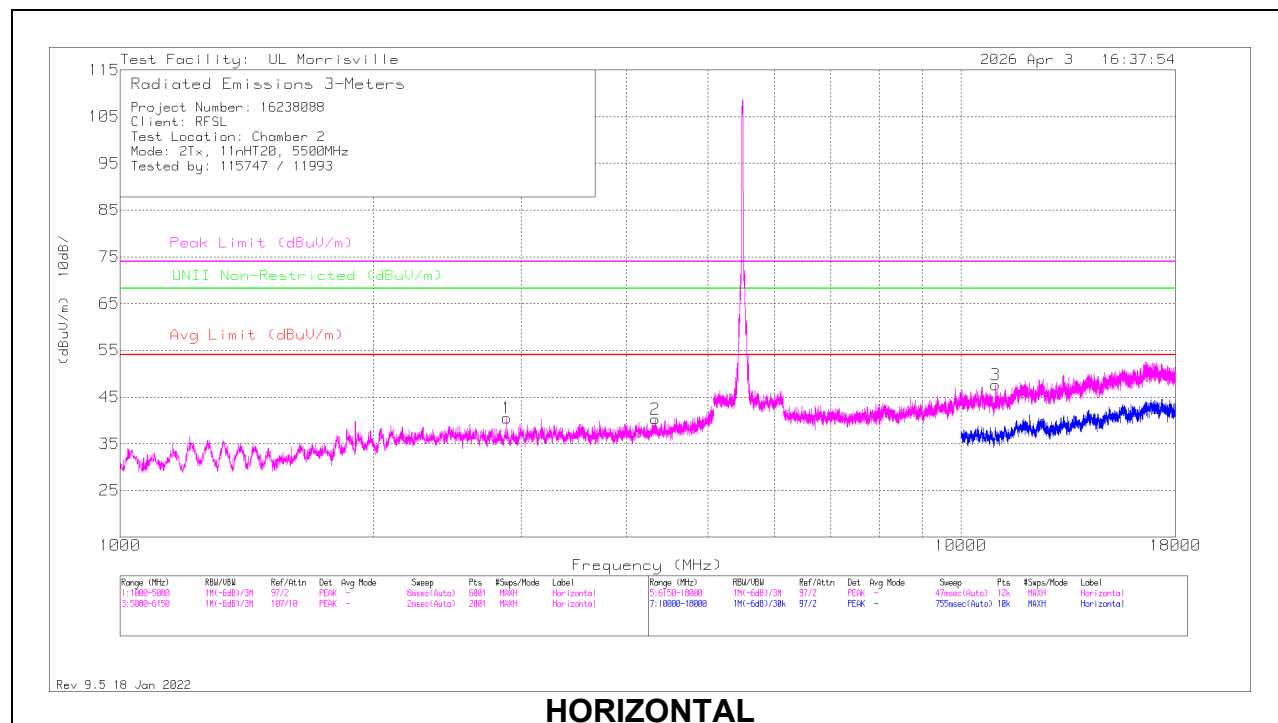
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

RMS - RMS detection

HARMONICS (11n HT20, 5500MHz, MIMO)



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2884.96	53.99	Pk	32.6	-46.1	0	40.49	54	-13.51	74	-33.51	-	-	0-360	199	H
2	* ** 4332.68	52.31	Pk	33.7	-45.7	0	40.31	54	-13.69	74	-33.69	-	-	0-360	199	H
3	* ** 11006.168	54.24	PK-U	37.4	-41	0	50.64	-	-	74	-23.36	-	-	33	108	H
	* ** 11004.378	40.83	ADV	37.4	-41.1	1.23	38.36	54	-15.64	-	-	-	-	33	108	H
4	* ** 7402.15	50.05	Pk	35.5	-42.7	0	42.85	54	-11.15	74	-31.15	-	-	0-360	101	V
5	* ** 9342.588	49.35	Pk	36.3	-40.9	0	44.75	54	-9.25	74	-29.25	-	-	0-360	101	V
6	* ** 11000.981	62.83	PK-U	37.4	-41.2	0	59.03	-	-	74	-14.97	-	-	286	116	V
	* ** 11000.929	48.4	ADV	37.4	-41.2	1.23	45.83	54	-8.17	-	-	-	-	286	116	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

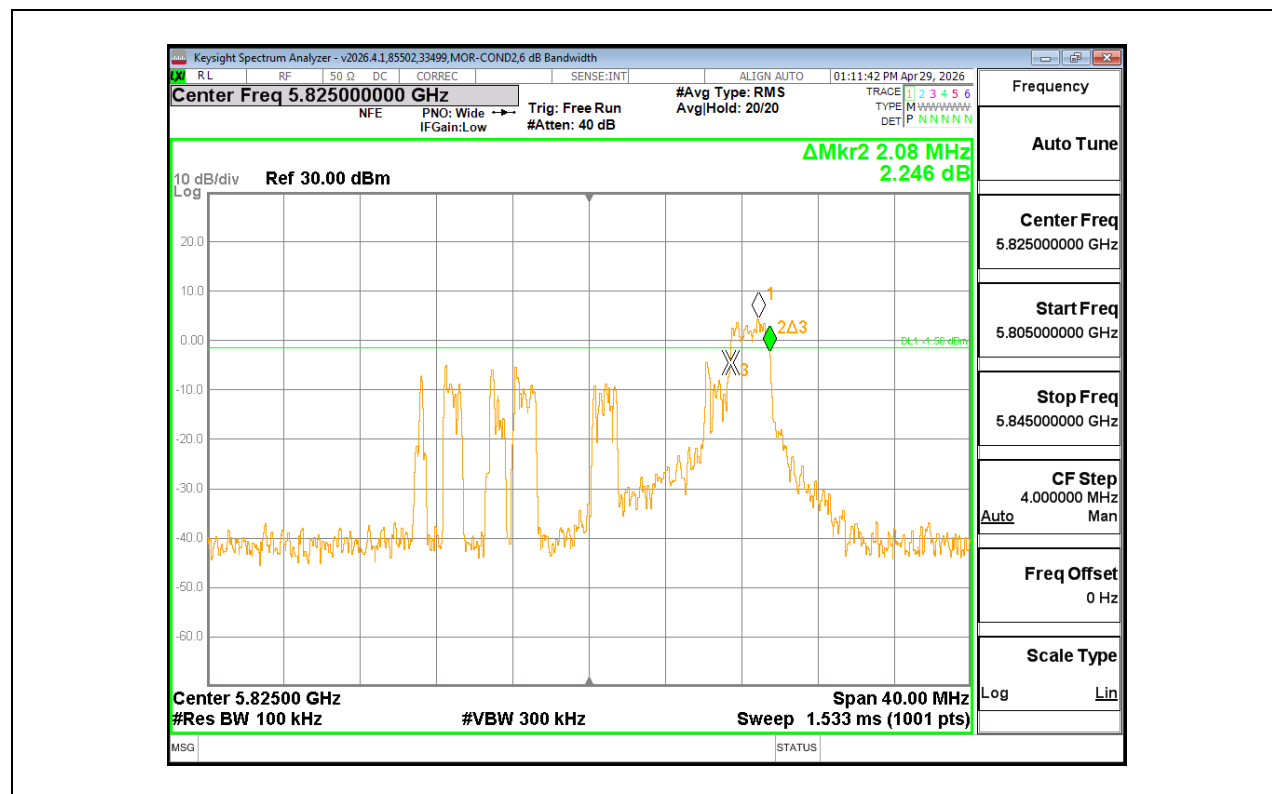
PK-U - Maximum Peak

ADV - Linear Voltage Average

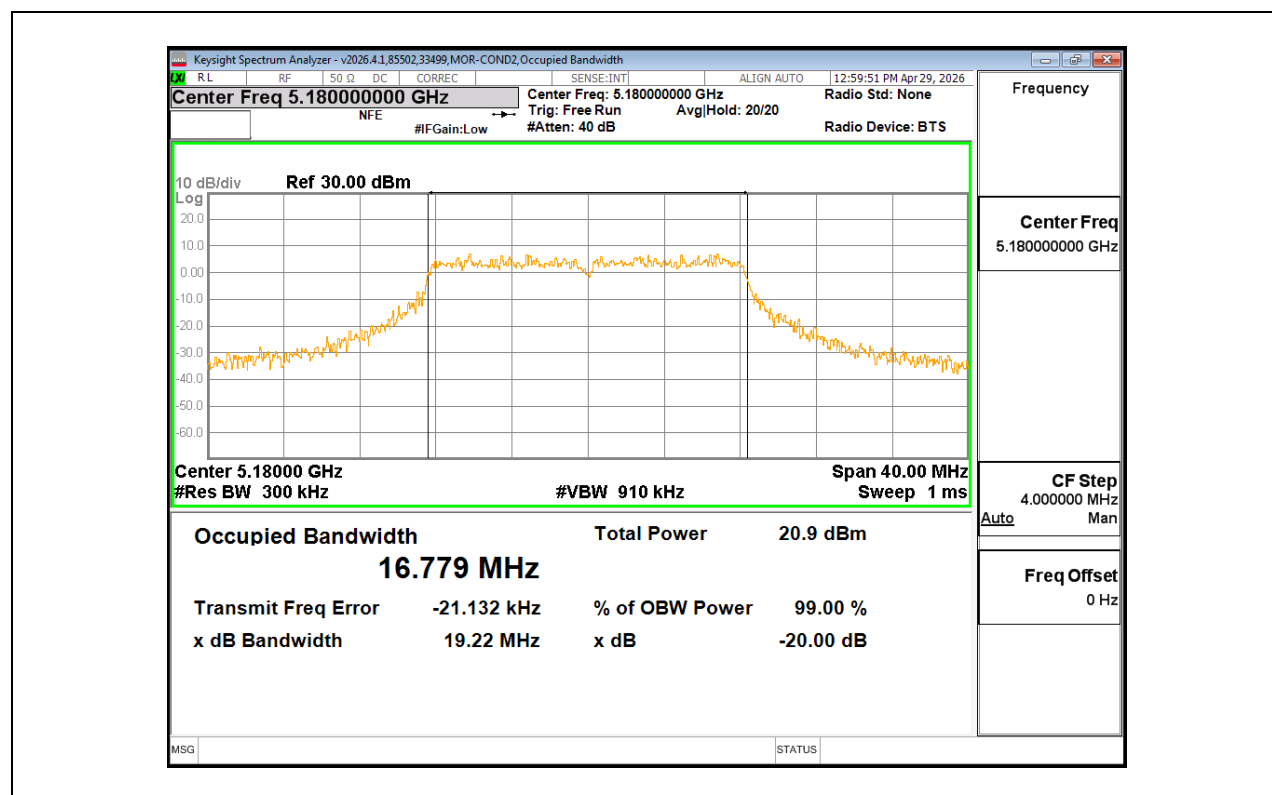
PSD REFERENCE PLOT (MIMO, 11be EHT20 26T RU0, 5180MHz)



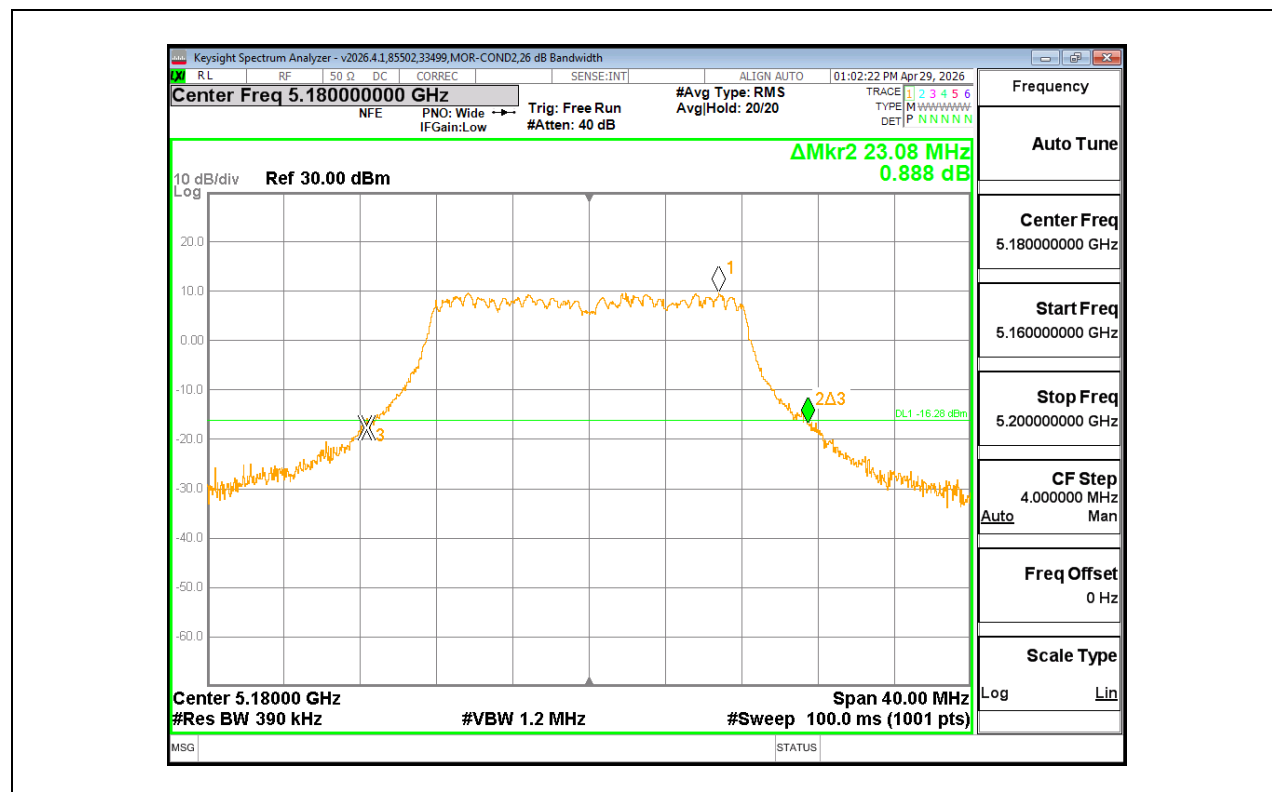
6 dB BW REFERENCE PLOT (MIMO, 11be EHT20 26T RU8, 5825 MHz)



99% BW REFERENCE PLOT (MIMO, 11a, 5180 MHz)



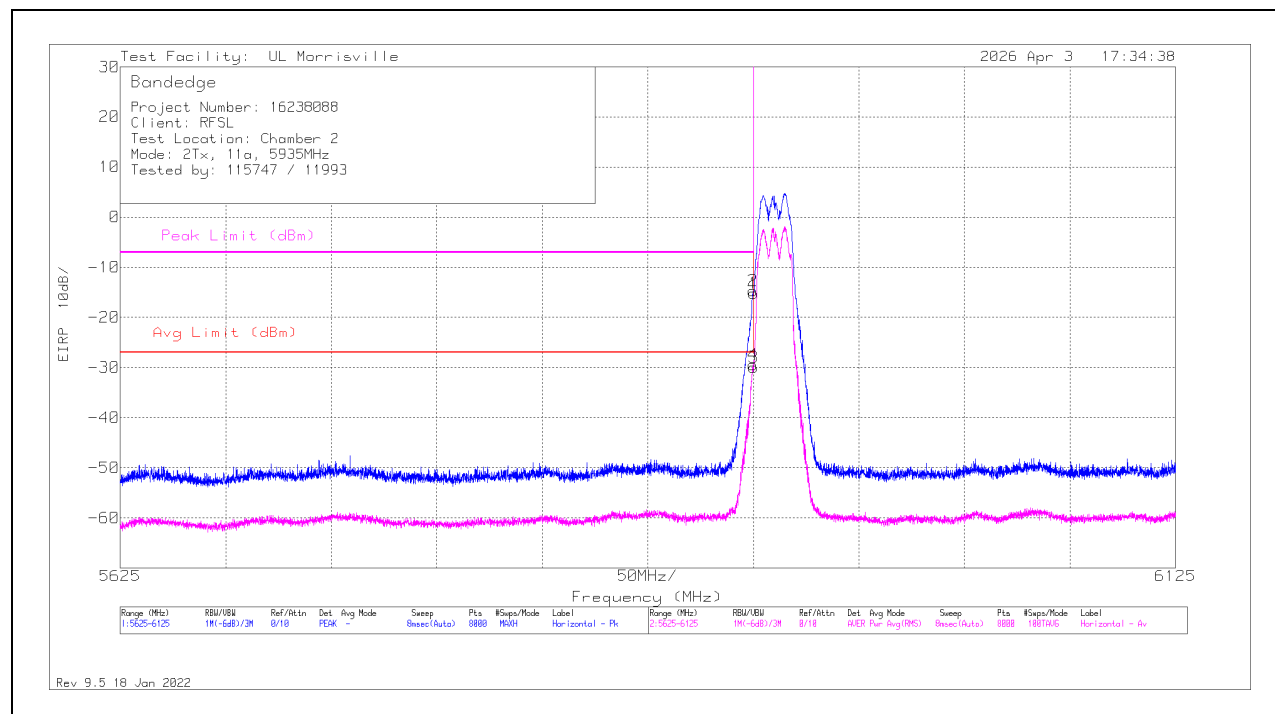
26 dB REFERENCE PLOT (MIMO, 11a, 5180 MHz)



10.1.5. 6 WLAN (DATA REFERENCING) TX ABOVE 1 GHz MODE

REPRESENTATIVE BANDEDGE (11a MIMO, 5935 MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 ACF (dB)	Gain/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	*** 2.38996	55.45	Pk	32.1	-25.1	0	62.45	-	-	74	-11.55	269	103	H
2	*** 2.38985	55.45	Pk	32.1	-25.1	0	62.45	-	-	74	-11.55	269	103	H
3	*** 2.38996	41.7	ADV	32.1	-25.1	.27	48.97	54	-5.03	-	-	269	103	H
4	*** 2.38991	41.94	ADV	32.1	-25.1	.27	49.21	54	-4.79	-	-	269	103	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE TEST DATA

Mode	Chain	Fund Freq [MHz]	Frequency (MHz)	Meter Reading (dBm)	Det	88761 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Avg Limit (dBm)	Margin (dB)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
11a	MIMO	5935	5924.726	-52.91	RMS	35.1	-24.2	11.8	.94	-29.27	-27	-2.27	-	-	97	115	H
			5924.976	-37.35	Pk	35.1	-24.2	11.8	0	-14.65	-	-	-7	-7.65	97	116	H
			5925	-37.93	Pk	35.2	-24.2	11.8	0	-15.13	-	-	-7	-8.13	97	116	H
			5925	-52.91	RMS	35.2	-24.2	11.8	.94	-29.17	-27	-2.17	-	-	97	115	H
			5924.851	-46.77	Pk	35.1	-24.2	11.8	0	-24.07	-	-	-7	-17.07	16	101	V
			5924.913	-62.2	RMS	35.1	-24.2	11.8	.47	-39.03	-27	-12.03	-	-	16	101	V
			5925	-46.96	Pk	35.2	-24.2	11.8	0	-24.16	-	-	-7	-17.16	16	101	V
			5925	-63.02	RMS	35.2	-24.2	11.8	.47	-39.75	-27	-12.75	-	-	16	101	V
		7115	7125	-43.43	Pk	35.5	-18.6	11.8	0	-14.73	-	-	-7	-7.73	335	120	H
			7125	-59.91	RMS	35.5	-18.6	11.8	.47	-30.74	-27	-3.74	-	-	335	120	H
			7125.049	-44.45	Pk	35.5	-18.6	11.8	0	-15.75	-	-	-7	-8.75	335	120	H
			7125.199	-59.91	RMS	35.5	-18.6	11.8	.47	-30.74	-27	-3.74	-	-	335	120	H
			7125	-46.36	Pk	35.5	-18.6	11.8	0	-17.66	-	-	-7	-10.66	352	116	V
			7125	-62.32	RMS	35.5	-18.6	11.8	.47	-33.15	-27	-6.15	-	-	352	116	V
			7125.049	-46.62	Pk	35.5	-18.6	11.8	0	-17.92	-	-	-7	-10.92	352	116	V
			7125.199	-61.76	RMS	35.5	-18.6	11.8	.47	-32.59	-27	-5.59	-	-	352	116	V

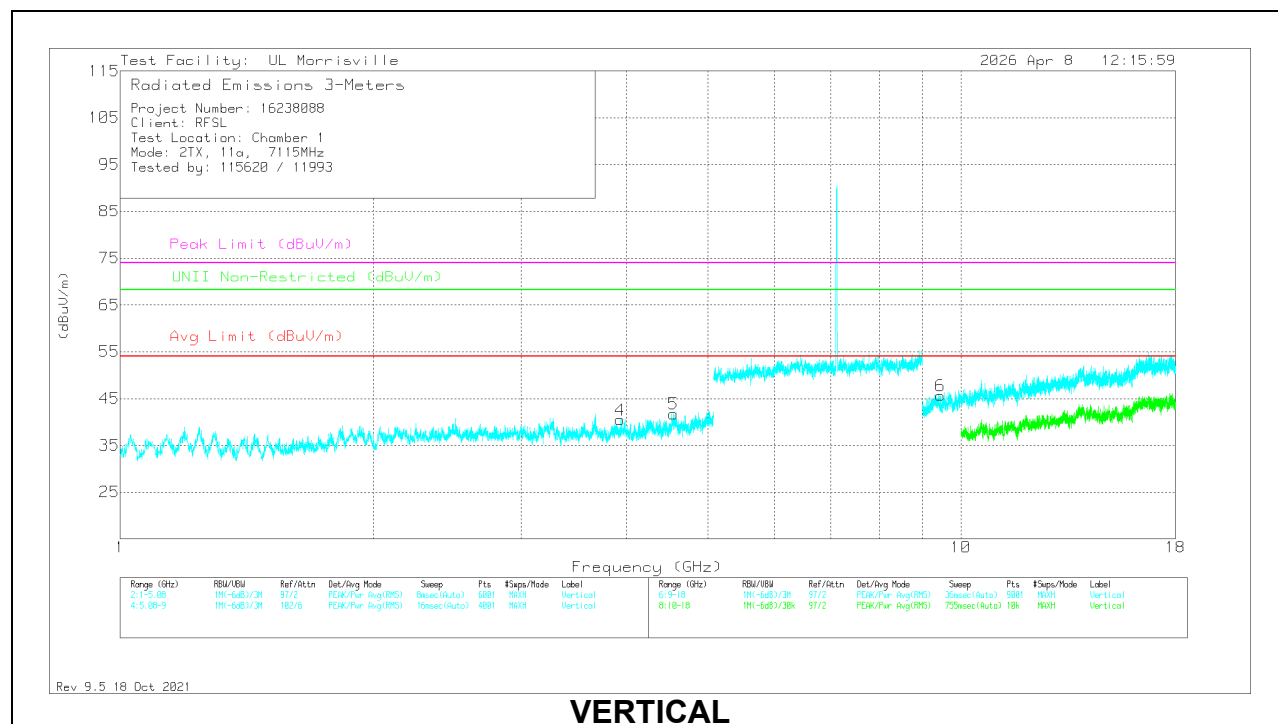
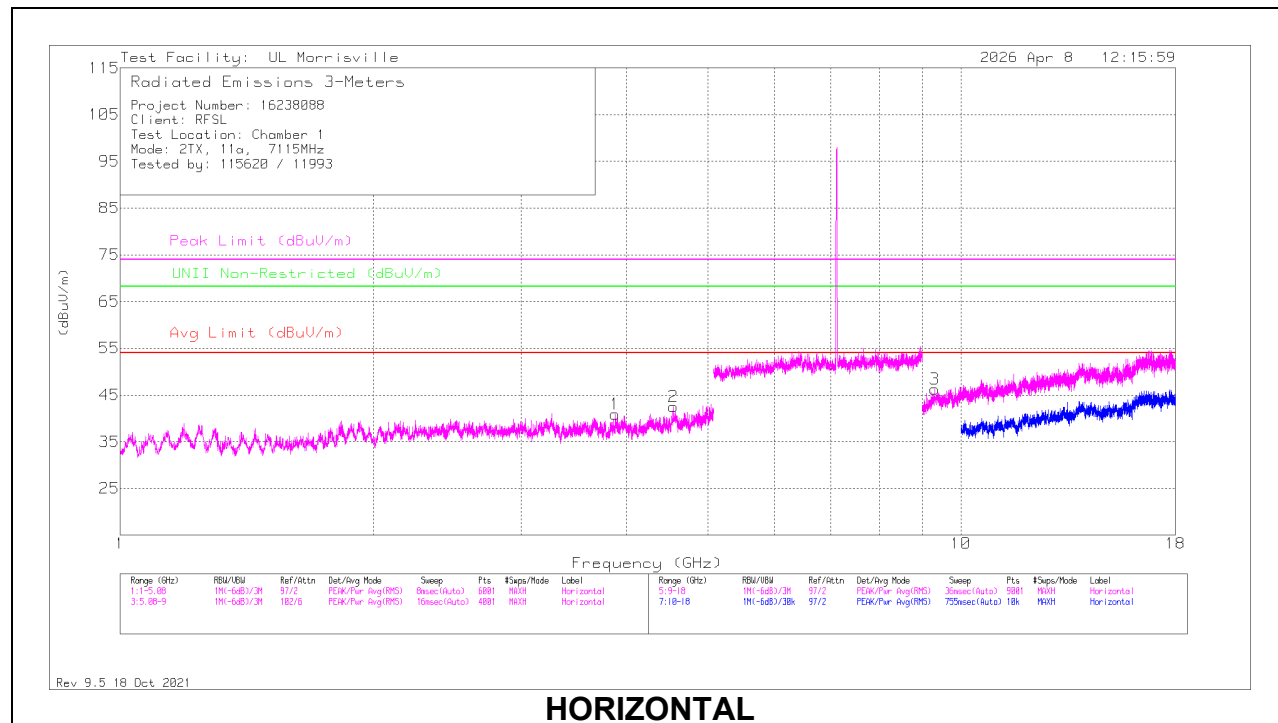
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS (11a, 7115MHz, MIMO)



RADIATED EMISSIONS

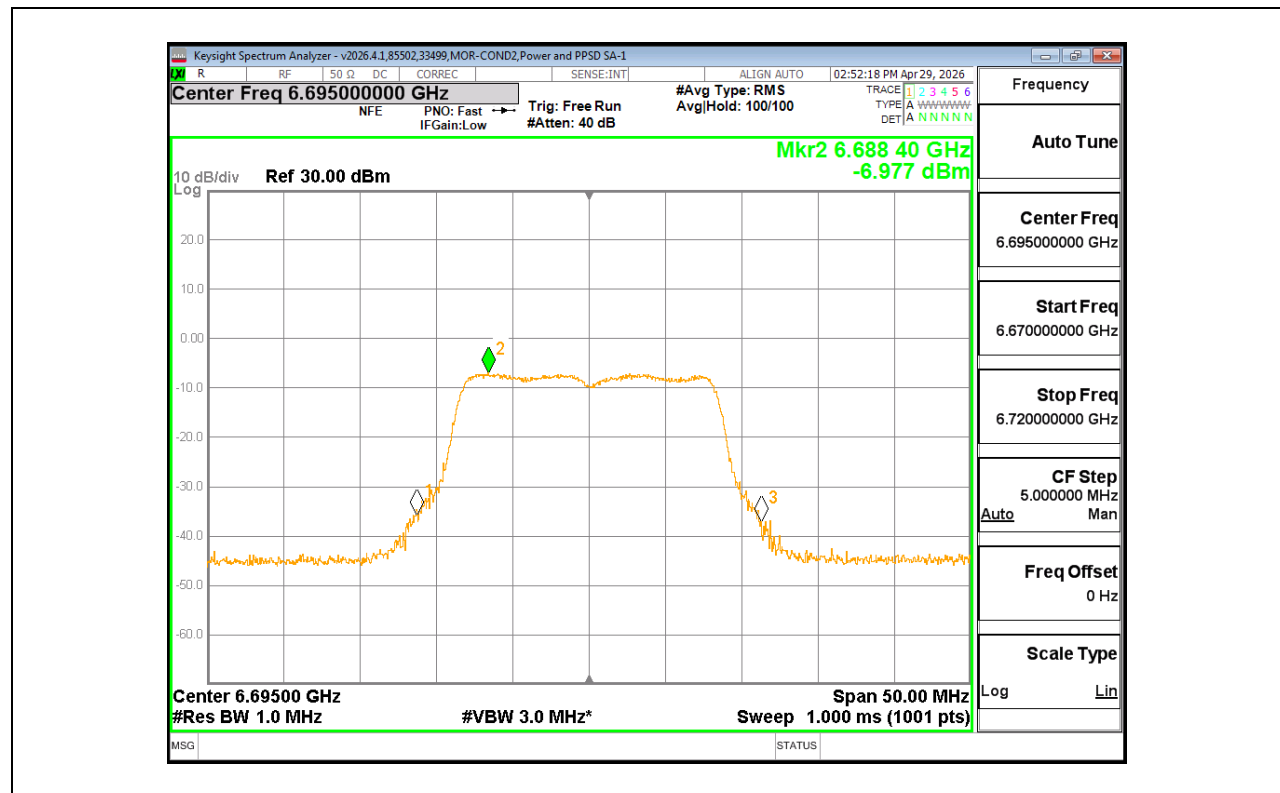
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 ACF (dB)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 3.88116	52.65	Pk	33.1	-44.8	0	40.95	54	-13.05	74	-33.05	-	-	0-360	101	H
2	** 4.553	54.62	Pk	33.8	-45.9	0	42.52	54	-11.48	74	-31.48	-	-	0-360	101	H
4	*** 3.93216	52.45	Pk	33.2	-45.2	0	40.45	54	-13.55	74	-33.55	-	-	0-360	200	V
5	*** 4.55436	53.72	Pk	33.8	-45.8	0	41.72	54	-12.28	74	-32.28	-	-	0-360	200	V
3	*** 9.315	50.33	Pk	36.3	-40.8	.5	46.33	54	-7.67	74	-27.67	-	-	0-360	199	H
6	*** 9.46	51.27	Pk	36.6	-42.6	.4	45.67	54	-8.33	74	-28.33	-	-	0-360	200	V

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

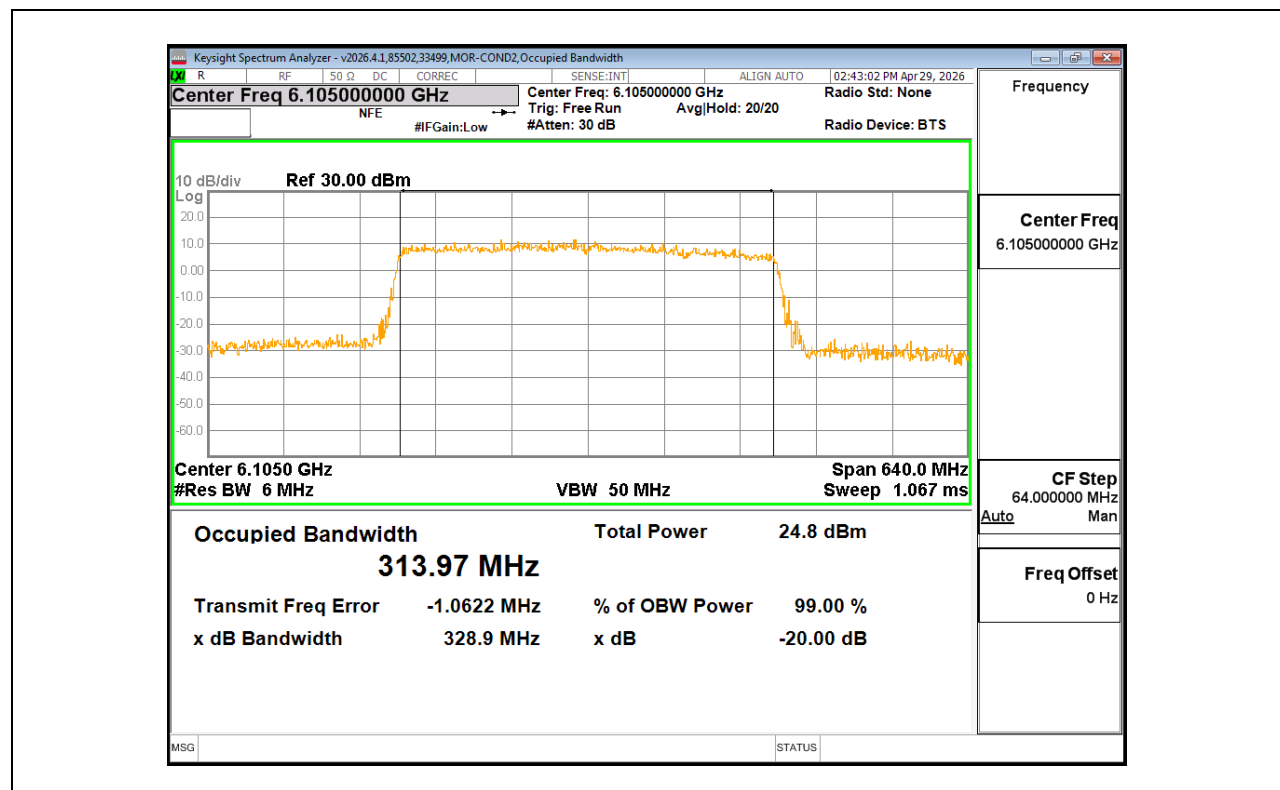
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

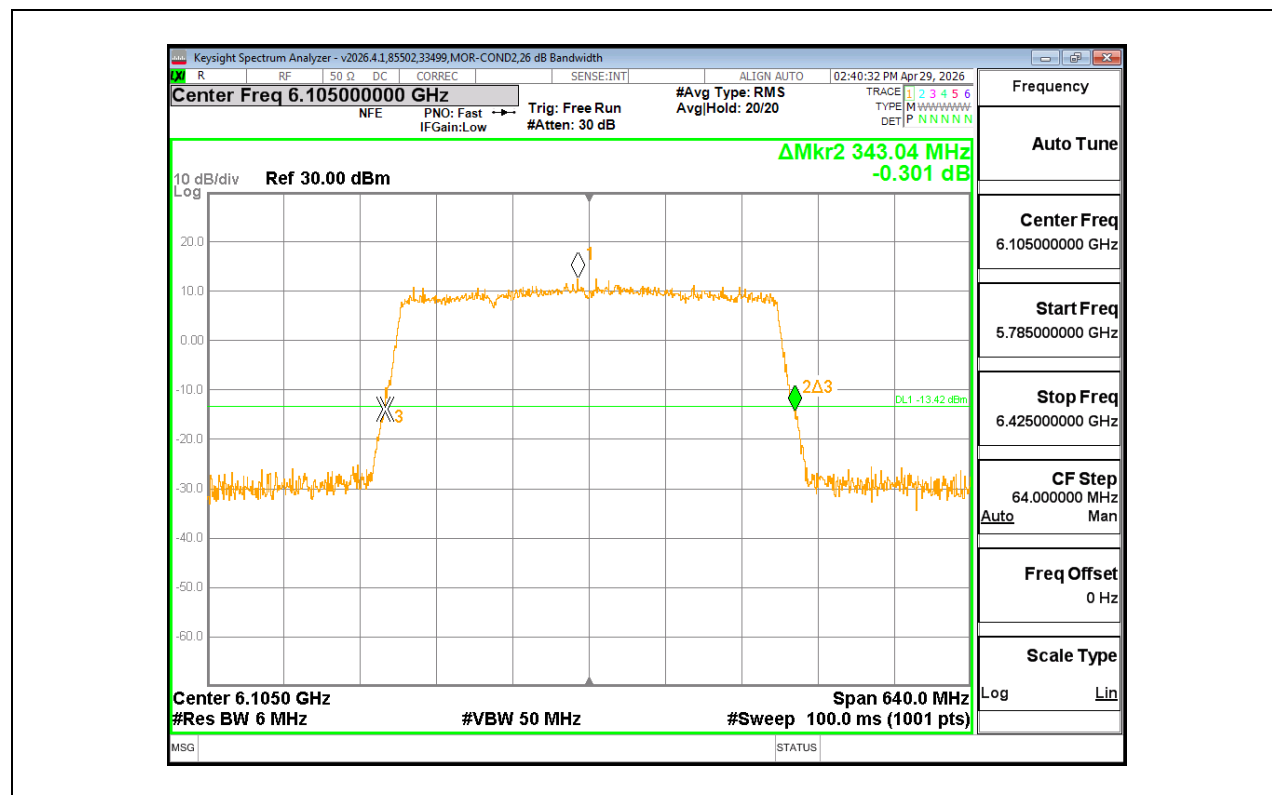
PSD REFERENCE PLOT (MIMO, 11a, 6695 MHz)



99% BW REFERENCE PLOT (MIMO, 11be EHT320 SU, 6105 MHz)

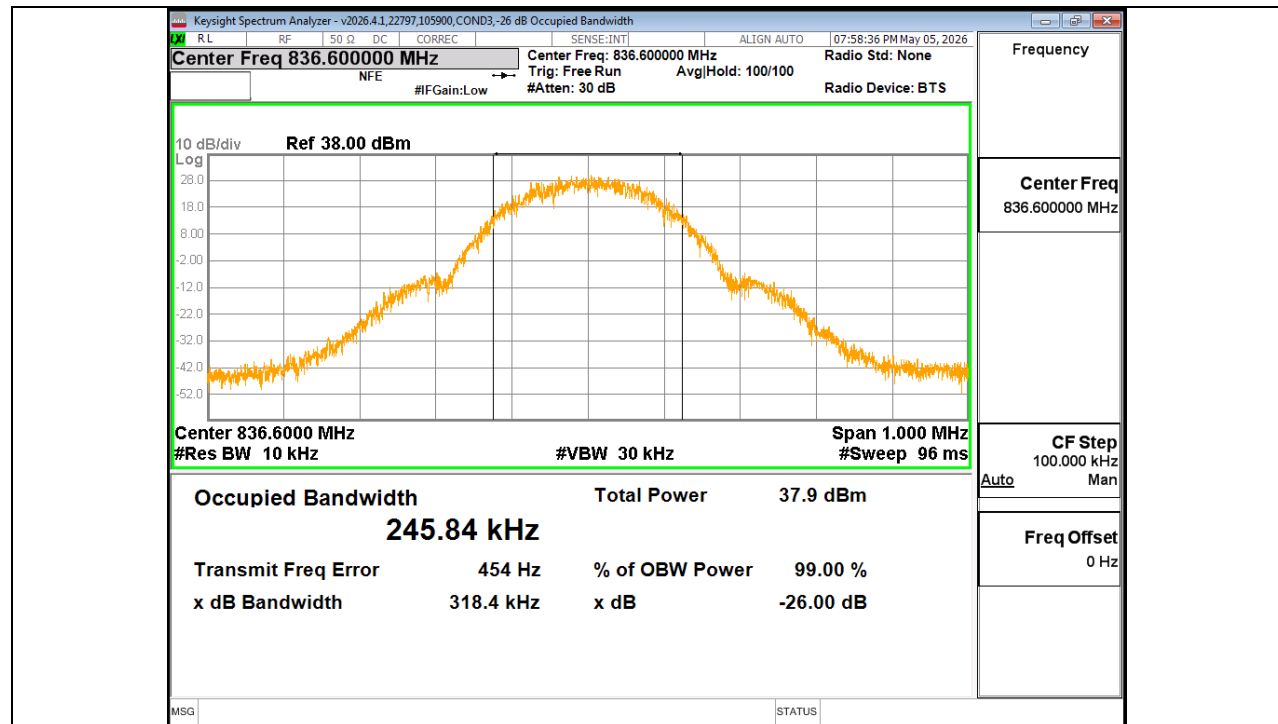


26 dB REFERENCE PLOT (MIMO, 11be EHT320 SU, 6105 MHz)

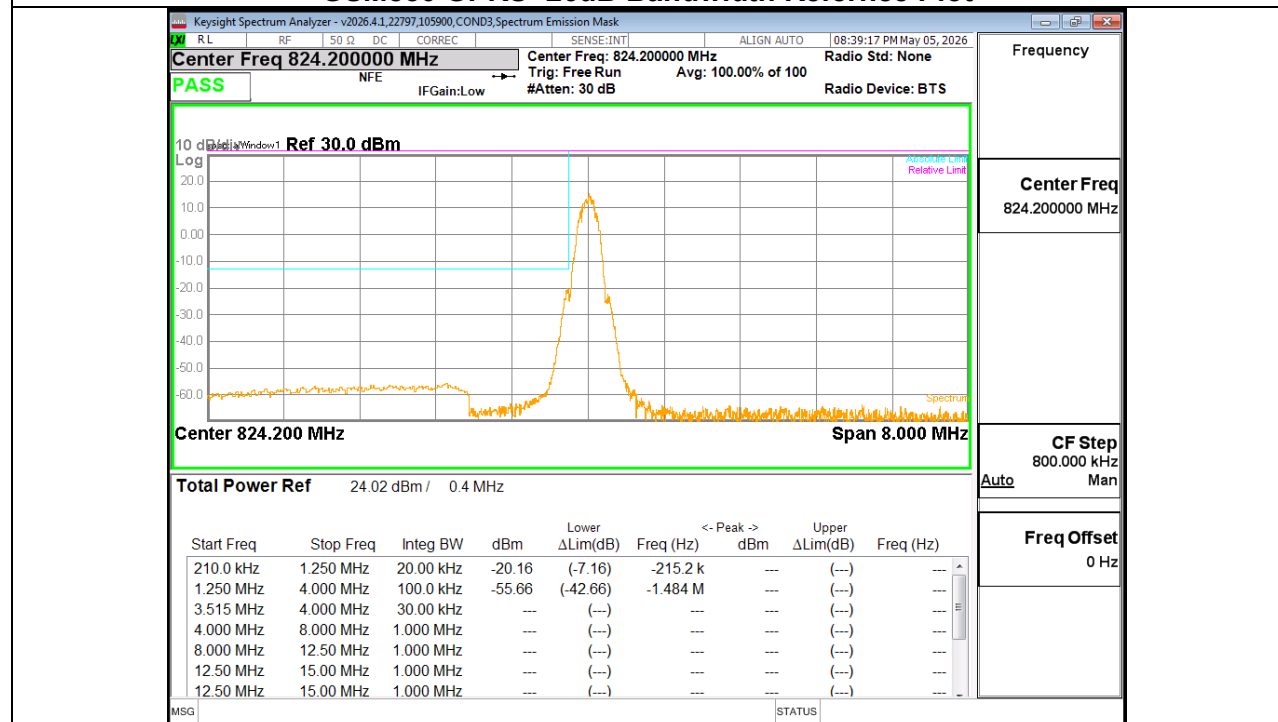


10.1.6. WWAN (DATA REFERENCING)

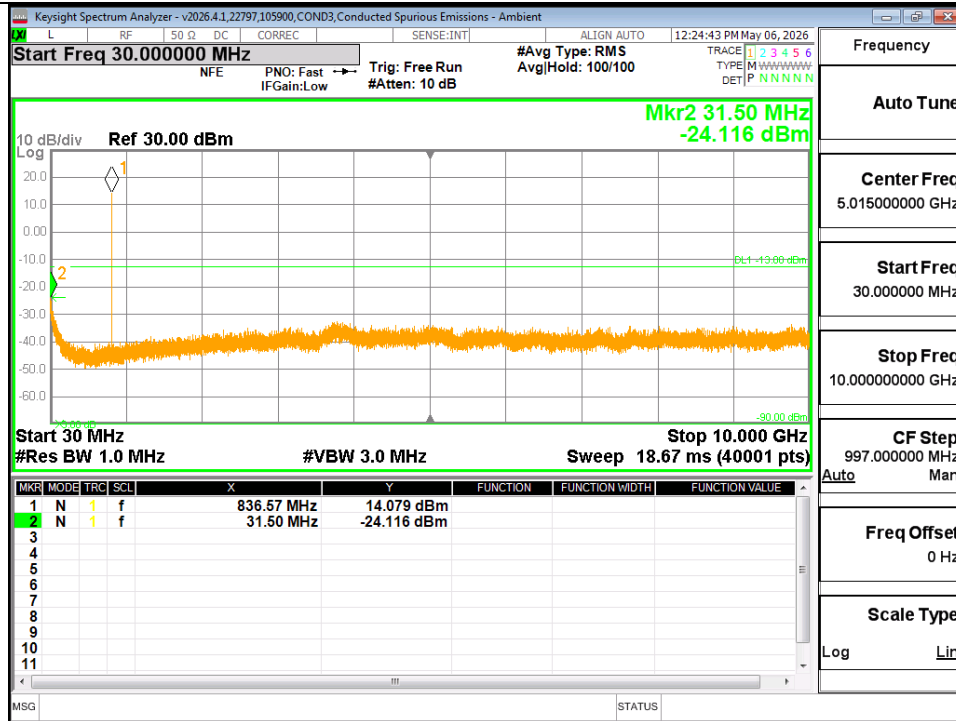
CONDUCTED RESULTS



GSM850 GPRS -26dB Bandwidth Reference Plot



GSM850 GPRS Low CH Channel Emission Mask Reference Plot



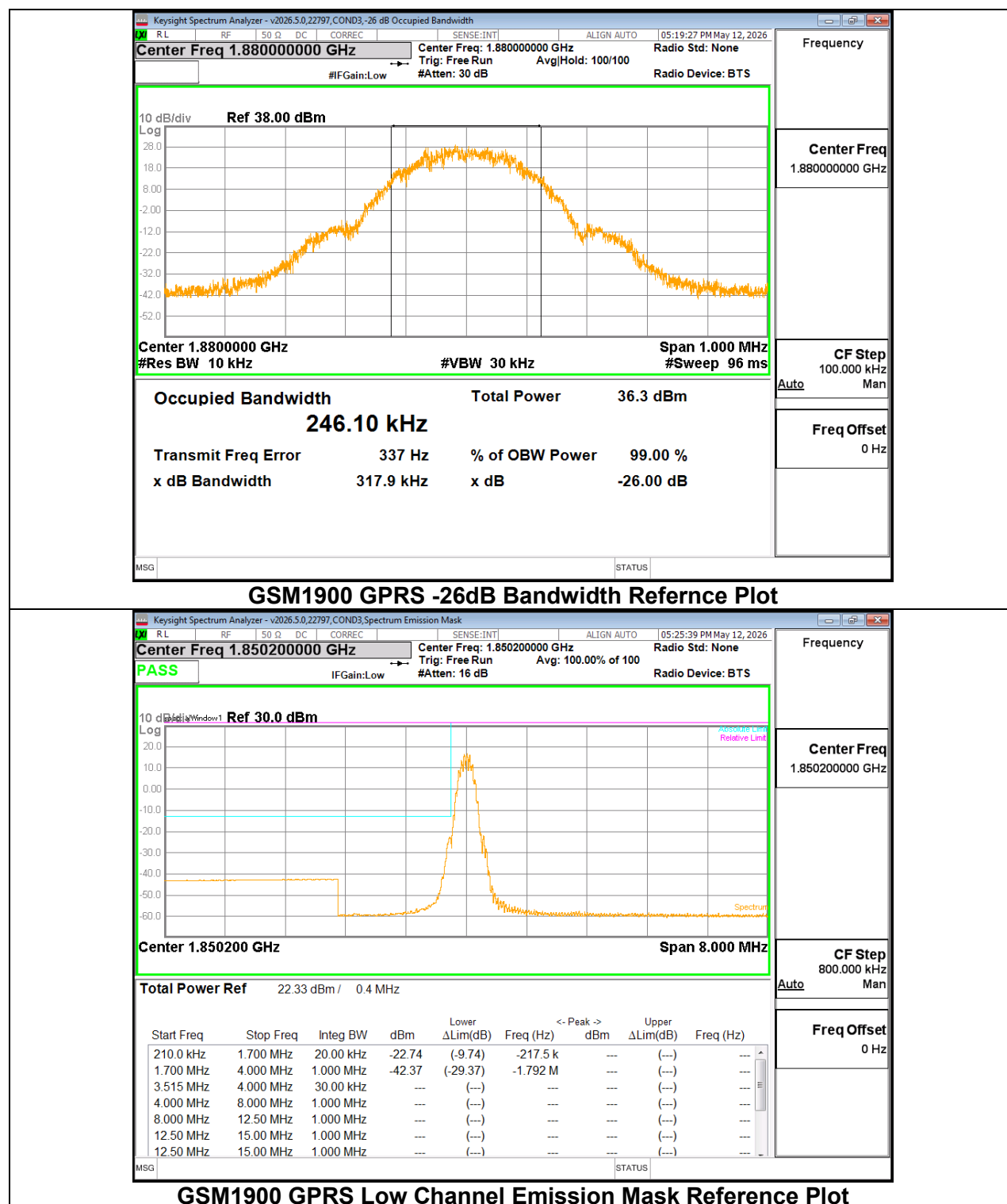
GSM850 EGPRS Mid Channel Conducted Spurious Emissions Reference Plot

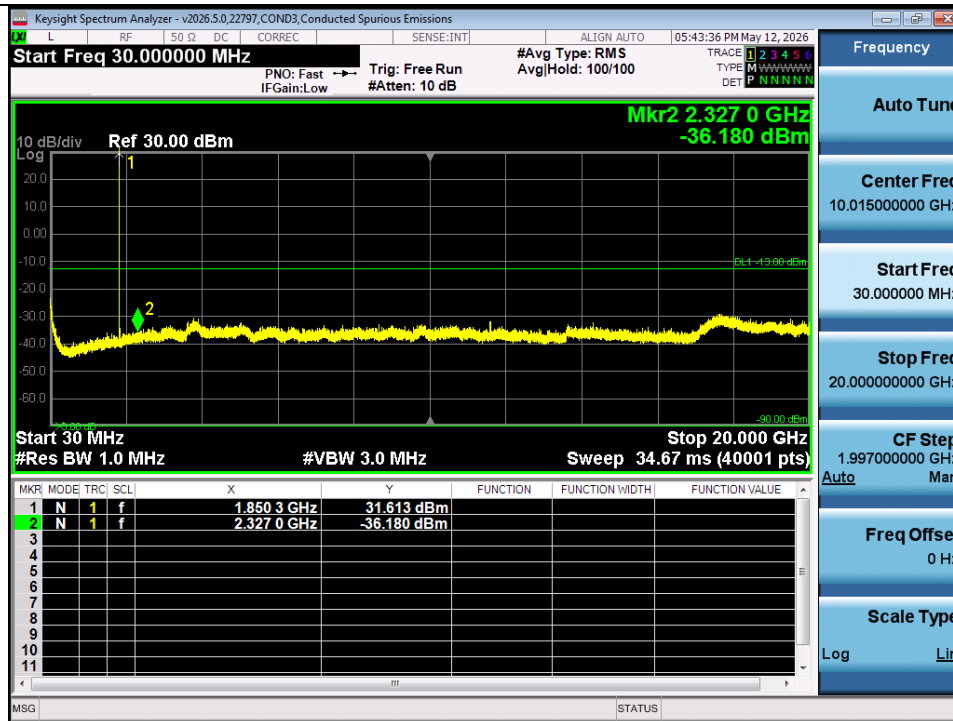
Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
GSM850	N/A	836.6	N/A	N/A	GPRS	32.17	32.10	0.07
					EGPRS	31.85	26.70	5.15

GSM850 Peak to Average Ratio

Band	5	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		824	849		2.5	
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	824.0357	848.9605			
Extreme (50°C)		824.0357	848.9605	10.75	0.013	Yes
Extreme (40°C)		824.0357	848.9605	18.01	0.022	Yes
Extreme (30°C)		824.0357	848.9605	4.41	0.005	Yes
Extreme (10°C)		824.0357	848.9605	15.56	0.019	Yes
Extreme (0°C)		824.0357	848.9605	21.68	0.026	Yes
Extreme (-10°C)		824.0357	848.9605	24.74	0.030	Yes
Extreme (-20°C)		824.0357	848.9605	17.06	0.020	Yes
Extreme (-30°C)		824.0357	848.9605	2.07	0.002	Yes
20°C	End Point Voltage	824.0357	848.9605	17.25	0.021	Yes

GSM850 GPRS Frequency Stability





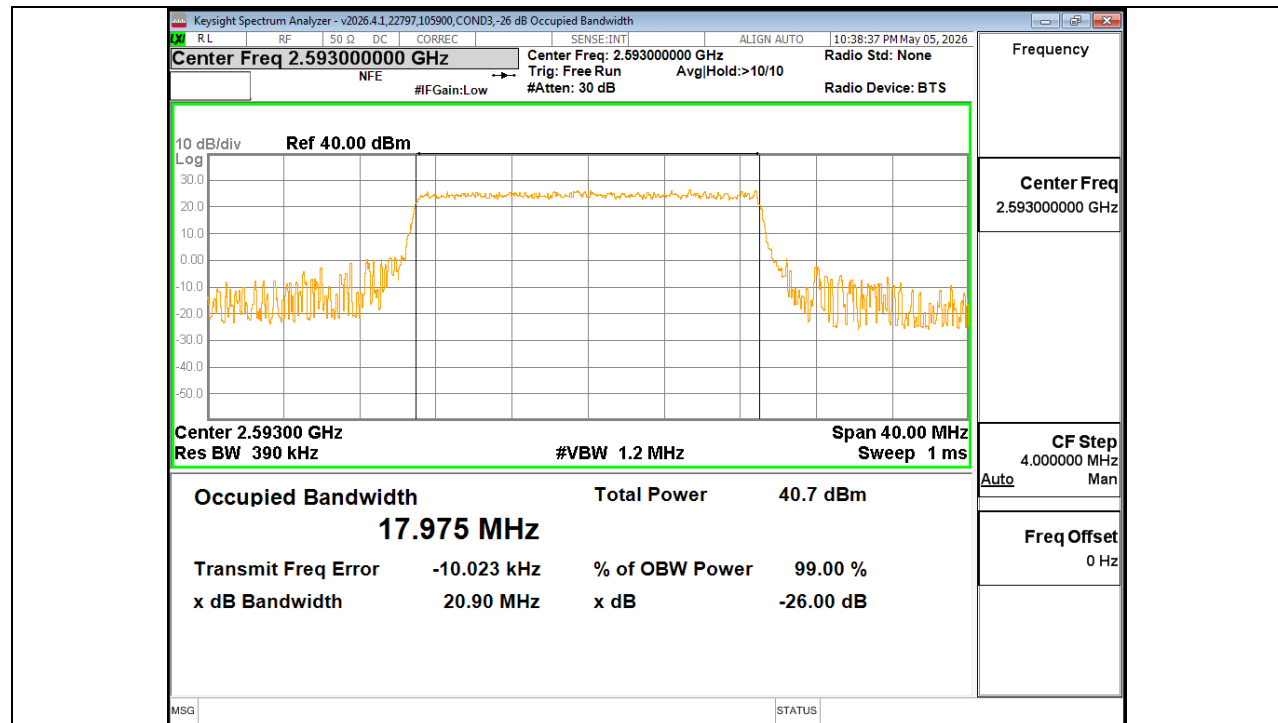
GSM1900 GPRS Low Channel Conducted Spurious Emissions Reference Plot

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
GSM1900	N/A	1880.0	N/A	N/A	GPRS	29.62	29.59	0.03
					EGPRS	29.73	24.54	5.19
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

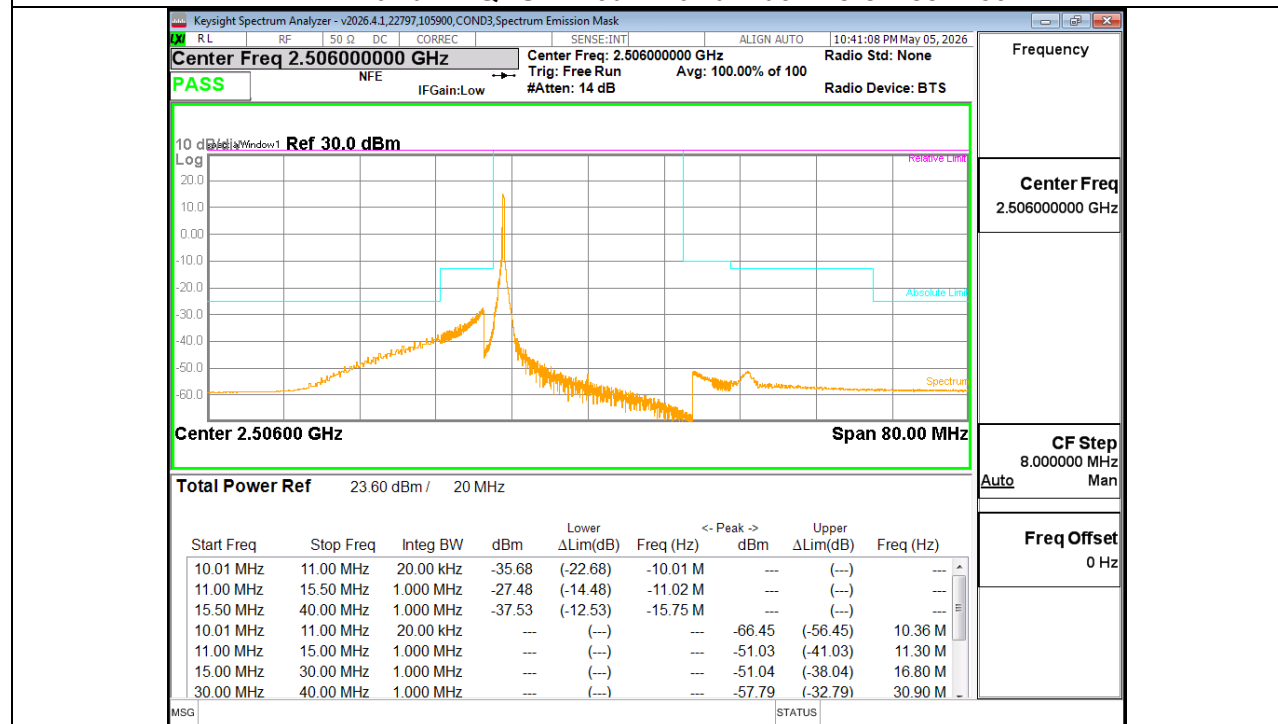
GSM1900 Peak to Average Ratio

Band		Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1850	1910		2.5	
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Normal (20°C)	Normal	1849.9987	1909.9947			
Extreme (50°C)		1849.9987	1909.9947	23.46	0.012	Yes
Extreme (40°C)		1849.9987	1909.9948	29.52	0.016	Yes
Extreme (30°C)		1849.9987	1909.9947	24.82	0.013	Yes
Extreme (10°C)		1849.9987	1909.9947	21.87	0.012	Yes
Extreme (0°C)		1849.9987	1909.9947	12.99	0.007	Yes
Extreme (-10°C)		1849.9987	1909.9947	15.34	0.008	Yes
Extreme (-20°C)		1849.9987	1909.9947	-13.22	-0.007	Yes
Extreme (-30°C)		1849.9987	1909.9947	1.08	0.001	Yes
20°C	End Point Voltage	1849.9987	1909.9947	-6.91	-0.004	Yes

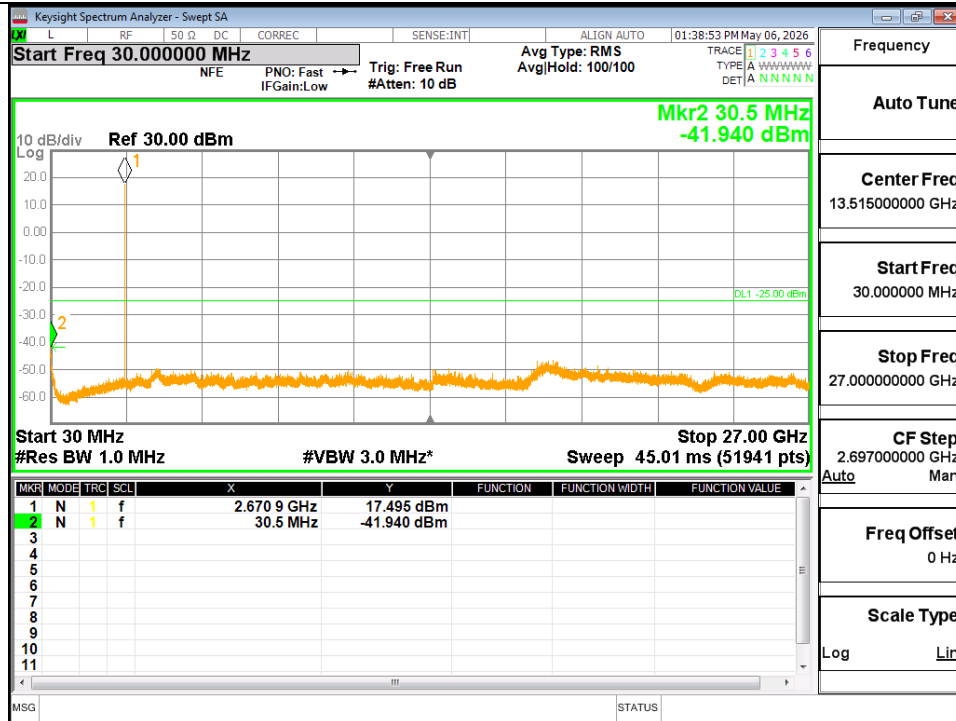
GSM1900 GPRS Frequency Stability



LTE Band 41 QPSK -26dB Bandwidth Reference Plot



LTE Band 41 QPSK Low Channel 20MHz RB 1-0 Emission Mask Reference Plot



LTE Band 41 QPSK High Channel 20MHz RB 1-0 Conducted Spurious Emissions Reference Plot

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
LTE Band 41	20MHz	2593.0	100	0	QPSK	27.23	22.85	4.38
					16QAM	27.16	23.05	4.11
Duty Cycle Correction Factor (dB) =								
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

LTE Band 41 Peak to Average Ratio

Band	41	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		2496	2690			
		Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage					
Normal (20°C)	Normal	2495.9381	2689.8755			
Extreme (50°C)		2495.9381	2689.8755	-4.28	-0.002	Yes
Extreme (40°C)		2495.9381	2689.8755	-13.47	-0.005	Yes
Extreme (30°C)		2495.9381	2689.8755	-1.08	0.000	Yes
Extreme (10°C)		2495.9381	2689.8755	-6.2	-0.002	Yes
Extreme (0°C)		2495.9381	2689.8755	5.62	0.002	Yes
Extreme (-10°C)		2495.9381	2689.8755	1.92	0.001	Yes
Extreme (-20°C)		2495.9381	2689.8755	-0.48	0.000	Yes
Extreme (-30°C)		2495.9381	2689.8755	8.82	0.003	Yes
20°C	End Point Voltage	2495.9381	2689.8755	5.45	0.002	Yes

LTE Band 41 QPSK Frequency Stability

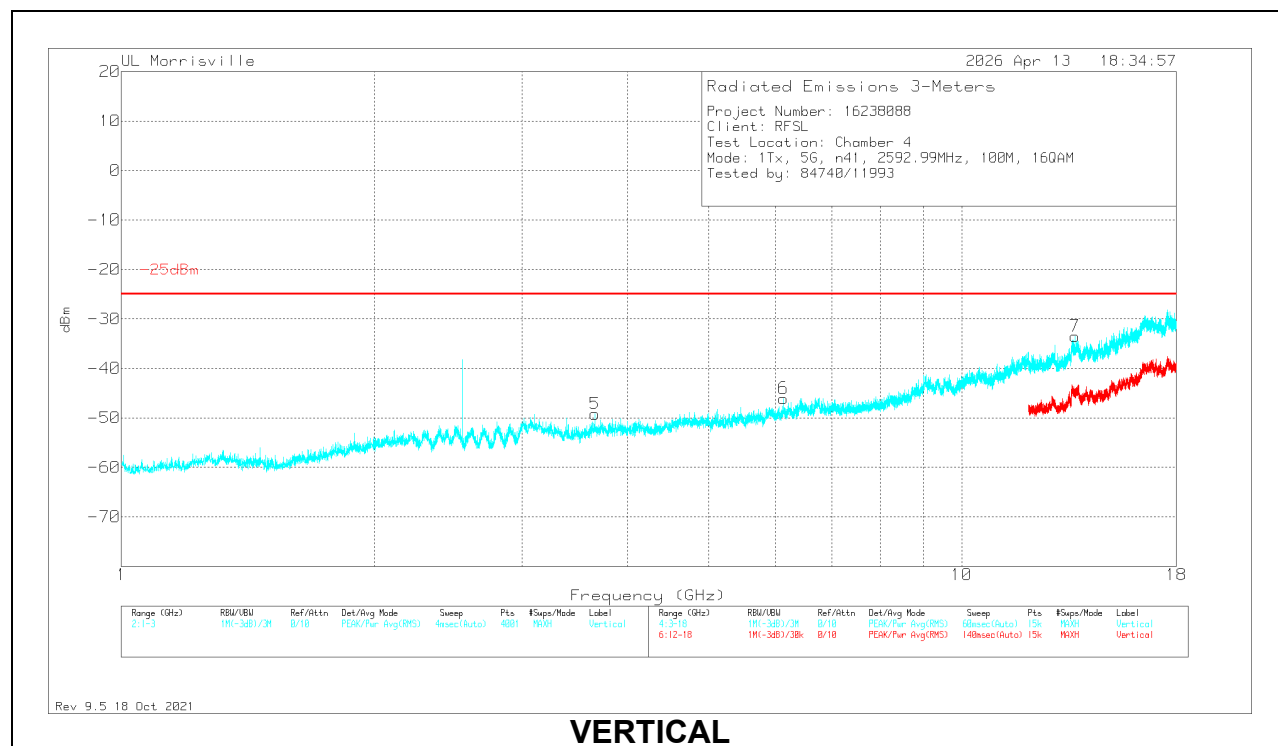
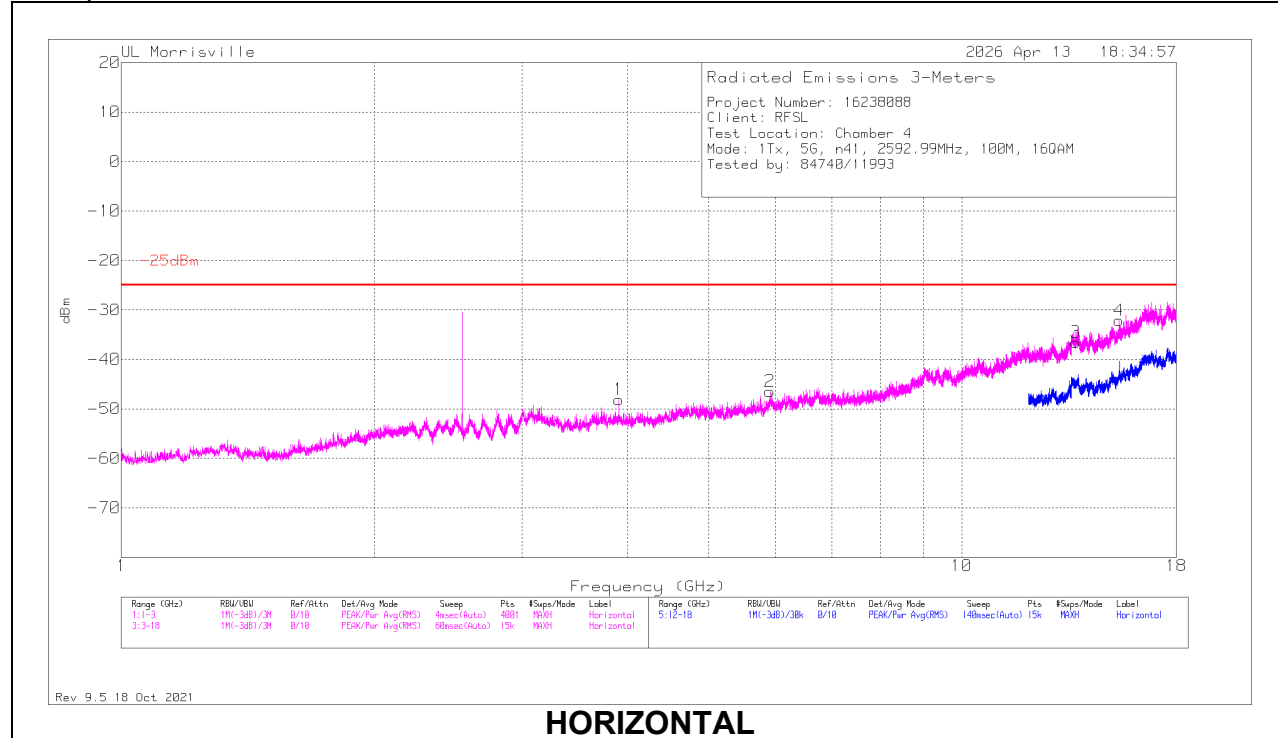
LTE BAND 41 PC2 EIRP RESULTS

Freq (MHz)	Band/Bandwidth	RB Size-Offset	Modulation (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2498.500	LTE B41/38 5 MHz FCC (ANT B)	RB1-0	QPSK	0.080	19.03	33.01	-13.98
2593.000		RB1-12	QPSK	0.069	18.38	33.01	-14.63
2687.500		RB1-24	QPSK	0.067	18.23	33.01	-14.78
2498.500		RB1-0	16QAM	0.069	18.36	33.01	-14.65
2593.000		RB1-12	16QAM	0.058	17.61	33.01	-15.40
2687.500		RB1-24	16QAM	0.058	17.61	33.01	-15.40
2501.000	LTE B41/38 10 MHz FCC (ANT B)	RB1-0	QPSK	0.094	19.71	33.01	-13.30
2593.000		RB1-25	QPSK	0.078	18.93	33.01	-14.08
2685.000		RB1-49	QPSK	0.077	18.88	33.01	-14.13
2501.000		RB1-0	16QAM	0.078	18.91	33.01	-14.10
2593.000		RB1-25	16QAM	0.062	17.95	33.01	-15.06
2685.000		RB1-49	16QAM	0.063	17.98	33.01	-15.03
2503.500	LTE B41/38 15 MHz FCC (ANT B)	RB1-0	QPSK	0.083	19.21	33.01	-13.80
2593.000		RB1-37	QPSK	0.073	18.62	33.01	-14.39
2682.500		RB1-74	QPSK	0.076	18.78	33.01	-14.23
2503.500		RB1-0	16QAM	0.072	18.55	33.01	-14.46
2593.000		RB1-37	16QAM	0.060	17.77	33.01	-15.24
2682.500		RB1-74	16QAM	0.061	17.87	33.01	-15.14
2506.000	LTE41(38)/20MHz FCC (ANT B)	RB1-0	QPSK	0.084	19.22	33.01	-13.79
2593.000		RB1-49	QPSK	0.075	18.76	33.01	-14.25
2680.000		RB1-99	QPSK	0.085	19.27	33.01	-13.74
2506.000		RB1-0	16QAM	0.075	18.75	33.01	-14.26
2593.000		RB1-49	16QAM	0.067	18.25	33.01	-14.76
2680.000		RB1-99	16QAM	0.068	18.32	33.01	-14.69

Freq (MHz)	Band/Bandwidth	RB Size- Offset	Modulation n (Of EUT)	EIRP (W)	EIRP _{DUT} (dBm)	Limit (dBm)	Margin (dB)
2498.500	LTE B41/38 5 MHz FCC (ANT G)	RB1-0	QPSK	0.075	18.75	33.01	-14.26
2593.000		RB1-12	QPSK	0.071	18.50	33.01	-14.51
2687.500		RB1-24	QPSK	0.070	18.45	33.01	-14.56
2498.500		RB1-0	16QAM	0.060	17.78	33.01	-15.23
2593.000		RB1-12	16QAM	0.058	17.65	33.01	-15.36
2687.500		RB1-24	16QAM	0.055	17.40	33.01	-15.61
2501.000	LTE B41/38 10 MHz FCC (ANT G)	RB1-0	QPSK	0.066	18.18	33.01	-14.83
2593.000		RB1-25	QPSK	0.068	18.30	33.01	-14.71
2685.000		RB1-49	QPSK	0.067	18.25	33.01	-14.76
2501.000		RB1-0	16QAM	0.053	17.24	33.01	-15.77
2593.000		RB1-25	16QAM	0.057	17.53	33.01	-15.48
2685.000		RB1-49	16QAM	0.056	17.52	33.01	-15.49
2503.500	LTE B41/38 15 MHz FCC (ANT G)	RB1-0	QPSK	0.070	18.43	33.01	-14.58
2593.000		RB1-37	QPSK	0.071	18.50	33.01	-14.51
2682.500		RB1-74	QPSK	0.072	18.55	33.01	-14.46
2503.500		RB1-0	16QAM	0.058	17.64	33.01	-15.37
2593.000		RB1-37	16QAM	0.056	17.50	33.01	-15.51
2682.500		RB1-74	16QAM	0.056	17.48	33.01	-15.53
2506.000	LTE41(38)/20MHz FCC (ANT G)	RB1-0	QPSK	0.180	22.56	33.01	-10.45
2593.000		RB1-49	QPSK	0.122	20.85	33.01	-12.16
2680.000		RB1-99	QPSK	0.215	23.33	33.01	-9.68
2506.000		RB1-0	16QAM	0.155	21.90	33.01	-11.11
2593.000		RB1-49	16QAM	0.124	20.94	33.01	-12.07
2680.000		RB1-99	16QAM	0.183	22.63	33.01	-10.38

RADIATED SPURIOUS EMISSIONS

Example Plot:



RADIATED EMISSIONS TEST DATA

Mode	Chain	Fund Freq [MHz]	Frequency (GHz)	Meter Reading (dBm)	Det	135143 ACF (dB)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
n71, BPSK, 35MHz, RB1-94	A (C0)	680.5	2.0575	-62.35	Pk	31.8	-35.7	.4	11.8	-54.05	-13	-41.05	0-360	300	V
			2.0881	-61.95	Pk	31.6	-35.7	.5	11.8	-53.75	-13	-40.75	0-360	100	H
			4.3309	-64.75	Pk	33.7	-32	.3	11.8	-50.95	-13	-37.95	0-360	300	V
			4.4956	-64.72	Pk	33.7	-31.3	.3	11.8	-50.22	-13	-37.22	0-360	100	H
			9.0325	-65.38	Pk	36.2	-24.5	.6	11.8	-41.28	-13	-28.28	0-360	300	V
			9.5527	-66.99	Pk	36.6	-24.8	.4	11.8	-42.99	-13	-29.99	0-360	200	H
n5, BPSK, 20MHz, RB1-1	E (C1)	824	1.9441	-60.76	Pk	30.8	-35.6	.3	11.8	-53.46	-13	-40.46	0-360	100	H
			2.053	-62.13	Pk	31.7	-35.6	.4	11.8	-53.83	-13	-40.83	0-360	300	V
			4.627	-64.19	Pk	34.2	-31.5	.2	11.8	-49.49	-13	-36.49	0-360	100	H
			4.6846	-64.1	Pk	34.1	-31.2	.4	11.8	-49	-13	-36	0-360	200	V
			9.3538	-66.96	Pk	36.4	-24.5	.2	11.8	-43.06	-13	-30.06	0-360	100	H
			9.6328	-66.66	Pk	36.6	-25.3	.4	11.8	-43.16	-13	-30.16	0-360	300	V
GSM850, GPRS, CS1, TS1	A+C (C0)	848.8	1.8505	-61.34	Pk	30.4	-35.7	.4	11.8	-54.44	-13	-41.44	0-360	100	H
			1.9396	-61.06	Pk	30.8	-35.6	.4	11.8	-53.66	-13	-40.66	0-360	300	V
			2.5462	-60.44	Pk	32.4	-35.7	.3	11.8	-51.64	-13	-38.64	0-360	100	H
			3.0358	-61.72	Pk	32.9	-34.8	.4	11.8	-51.42	-13	-38.42	0-360	300	V
			9.5482	-67.2	Pk	36.7	-24.7	.5	11.8	-42.9	-13	-29.9	0-360	200	V
			9.5797	-68.39	Pk	36.6	-24.7	.4	11.8	-44.29	-13	-31.29	0-360	100	H
n41, BPSK, 100MHz, RB1-1	B (C0)	2546.01	3.832	-63.37	Pk	33.4	-32.4	.5	11.8	-50.07	-25	-25.07	0-360	300	H
			4.921	-64.02	Pk	33.8	-30.3	.7	11.8	-48.02	-25	-23.02	0-360	200	V
			9.034	-66.13	Pk	36	-23.3	.9	11.8	-40.73	-25	-15.73	0-360	300	H
			9.126	-65.45	Pk	36.1	-24.5	.9	11.8	-41.15	-25	-16.15	0-360	200	V
			13.642	-66.44	Pk	38.5	-20.8	.7	11.8	-36.24	-25	-11.24	0-360	300	H
			13.753	-66.52	Pk	38.4	-19.2	.7	11.8	-34.82	-25	-9.82	0-360	200	V
n41 SRS D, BPSK, 100MHz, RB1-1	SRS D	2546.01	6.105	-54.32	Pk	35.3	-42.2	.4	11.8	-49.02	-25	-24.02	0-360	299	V
			6.316	-54.37	Pk	35.7	-42.2	.5	11.8	-48.57	-25	-23.57	0-360	300	H
			13.916	-54.64	Pk	38.6	-35.8	.6	11.8	-39.44	-25	-14.44	0-360	299	V
			13.929	-56.52	Pk	38.6	-34.8	.6	11.8	-40.32	-25	-15.32	0-360	200	H
			17.712	-56.41	Pk	41	-34.8	1.4	11.8	-37.01	-25	-12.01	0-360	101	V
			17.715	-58.22	Pk	41	-35	1.4	11.8	-39.02	-25	-14.02	0-360	200	H
n41, 16QAM, 100MHz, RB1-1	G (C1)	2592.99	3.662	-62.3	Pk	33.2	-32.7	.8	11.8	-49.2	-25	-24.2	0-360	200	V
			3.909	-61.81	Pk	33.4	-31.9	.4	11.8	-48.11	-25	-23.11	0-360	100	H
			5.913	-66.17	Pk	35	-27.6	.5	11.8	-46.47	-25	-21.47	0-360	100	H
			6.138	-65.67	Pk	35.3	-27.9	.4	11.8	-46.07	-25	-21.07	0-360	100	V
			13.64	-63.71	Pk	38.5	-20.7	.6	11.8	-33.51	-25	-8.51	0-360	100	V
			13.661	-66.63	Pk	38.5	-21	.8	11.8	-36.53	-25	-11.53	0-360	100	H
n41 SRS H, BPSK, 100MHz, RB1-1	SRS H	2640	15.394	-67.13	Pk	39.9	-17.5	.8	11.8	-32.13	-25	-7.13	0-360	100	H
			4.849	-51.59	Pk	34.1	-45.7	.8	11.8	-50.59	-25	-25.59	0-360	300	V
			4.853	-51.98	Pk	34.1	-45.7	.8	11.8	-50.98	-25	-25.98	0-360	300	H
			10.384	-56.06	Pk	37.5	-39.1	1.4	11.8	-44.46	-25	-19.46	0-360	101	V
			10.584	-55.25	Pk	37.7	-39.5	1.2	11.8	-44.05	-25	-19.05	0-360	300	H
			17.551	-58.44	Pk	41	-34.6	1.4	11.8	-38.84	-25	-13.84	0-360	200	H
n77c, BPSK, 100MHz, RB1-1	C (C1)	3750	17.707	-56.12	Pk	41	-35.3	1.4	11.8	-37.22	-25	-12.22	0-360	200	V
			2.68	-71.24	Pk	32.1	-21.7	.8	11.8	-48.24	-13	-35.24	0-360	100	H
			2.8725	-71.96	Pk	32.3	-21.5	.6	11.8	-48.76	-13	-35.76	0-360	300	V
			9.055	-66.67	Pk	36	-23.2	1.1	11.8	-40.97	-13	-27.97	0-360	300	V
			9.071	-66.25	Pk	36	-23.5	1.1	11.8	-40.85	-13	-27.85	0-360	100	H
			16.42	-65.4	Pk	41.1	-17.6	1.6	11.8	-28.5	-13	-15.5	0-360	300	V
n77c, BPSK, 100MHz, RB1-1	F (C0)	3930	17.584	-68.03	Pk	41.2	-15.4	1.4	11.8	-29.03	-13	-16.03	0-360	100	H
			5.92915	-64.81	Pk	35	-29.6	.6	11.8	-47.01	-13	-34.01	0-360	100	H
			6.0541	-65.27	Pk	35.2	-29	.6	11.8	-46.67	-13	-33.67	0-360	300	V
			13.55019	-63.57	Pk	38.6	-21.4	.9	11.8	-33.67	-13	-20.67	0-360	200	H
			13.63904	-64.96	Pk	38.5	-20.8	.8	11.8	-34.66	-13	-21.66	0-360	200	V
			17.643	-66.6	Pk	41.2	-16.5	1	11.8	-29.1	-13	-16.1	0-360	300	V
			17.93098	-68.89	Pk	41.1	-15.6	.9	11.8	-30.69	-13	-17.69	0-360	100	H

Pk - Peak detector

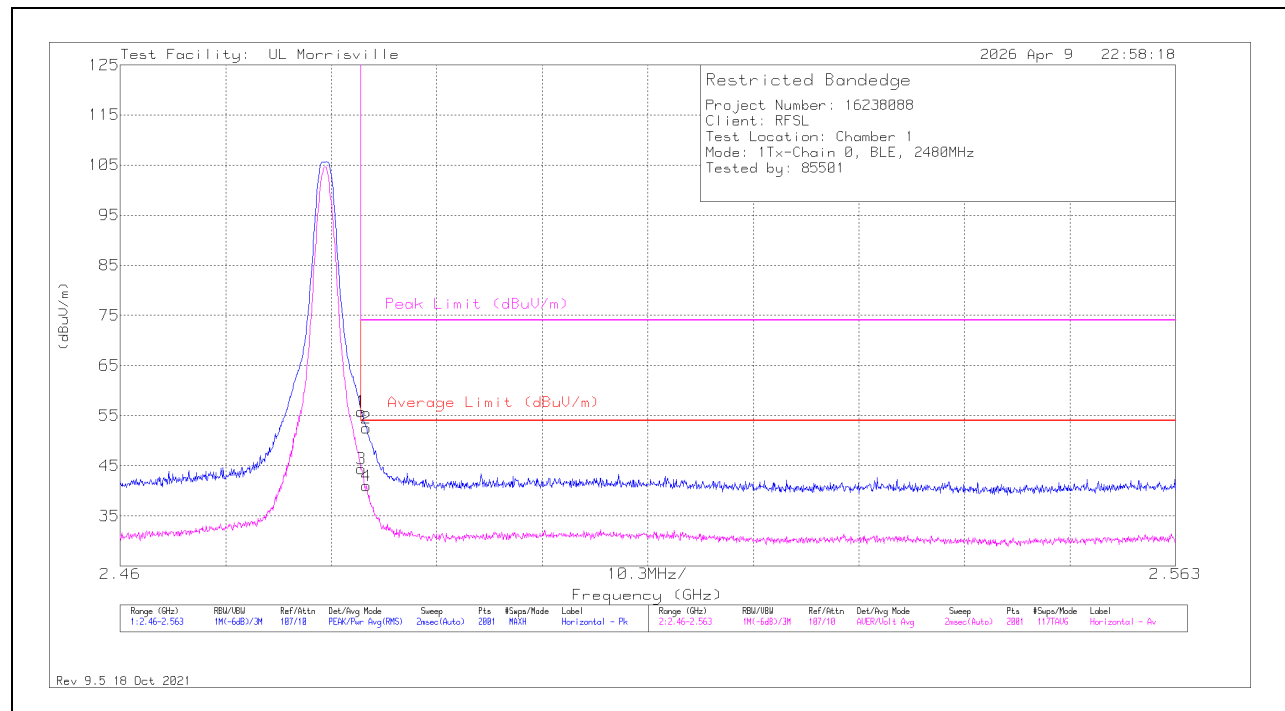
10.2. FULL TESTING

10.2.1. BLE (FULL TESTING) TX ABOVE 1 GHz MODE

Note: The data below supersedes the corresponding data found in UL report R16238088-E14d.

REPRESENTATIVE BANDEDGE (1Mbps, 2480 MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 ACF (dB)	Gain/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	* ** 2.48354	47.92	Pk	32.3	-24.4	0	55.82	-	-	74	-18.18	197	254	H
2	* ** 2.48405	44.65	Pk	32.3	-24.4	0	52.55	-	-	74	-21.45	197	254	H
3	* ** 2.48354	35.08	ADV	32.3	-24.4	1.39	44.37	54	-9.63	-	-	197	254	H
4	* ** 2.48405	31.67	ADV	32.3	-24.4	1.39	40.96	54	-13.04	-	-	197	254	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE TEST DATA

Mode	Chain	Fund Freq [MHz]	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 ACF (dB)	Gain/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
BLE 1 Mbps	0	2402	*** 2.38996	32.64	Pk	32.1	-25.1	0	39.64	-	-	74	-34.36	94	339	H
			*** 2.34376	35.47	Pk	31.9	-24.9	0	42.47	-	-	74	-31.53	94	339	H
			*** 2.38996	21.56	ADV	32.1	-25.1	1.39	29.95	54	-24.05	-	-	94	339	H
			*** 2.35121	22.34	ADV	32	-24.7	1.39	31.03	54	-22.97	-	-	94	339	H
			*** 2.38996	33.13	Pk	32.1	-25.1	0	40.13	-	-	74	-33.87	164	383	V
			*** 2.38922	35.08	Pk	32.1	-25.1	0	42.08	-	-	74	-31.92	164	383	V
			*** 2.38996	21.15	ADV	32.1	-25.1	1.39	29.54	54	-24.46	-	-	164	383	V
			*** 2.35463	22.39	ADV	32	-24.8	1.39	30.98	54	-23.02	-	-	164	383	V
		2480	*** 2.48354	47.92	Pk	32.3	-24.4	0	55.82	-	-	74	-18.18	197	254	H
			*** 2.48405	44.65	Pk	32.3	-24.4	0	52.55	-	-	74	-21.45	197	254	H
			*** 2.48354	35.08	ADV	32.3	-24.4	1.39	44.37	54	-9.63	-	-	197	254	H
			*** 2.48405	31.67	ADV	32.3	-24.4	1.39	40.96	54	-13.04	-	-	197	254	H
			*** 2.48354	42.44	Pk	32.3	-24.4	0	50.34	-	-	74	-23.66	26	383	V
			*** 2.48364	42.26	Pk	32.3	-24.4	0	50.16	-	-	74	-23.84	26	383	V
			*** 2.48354	30.74	ADV	32.3	-24.4	1.39	40.03	54	-13.97	-	-	26	383	V
			*** 2.48364	29.52	ADV	32.3	-24.4	1.39	38.81	54	-15.19	-	-	26	383	V
BLE 2 Mbps	0	2404	*** 2.38996	35.45	Pk	32.1	-25.1	0	42.45	-	-	74	-31.55	344	277	H
			*** 2.35095	35.46	Pk	32	-24.7	0	42.76	-	-	74	-31.24	344	277	H
			*** 2.38996	22.73	ADV	32.1	-25.1	2.32	32.05	54	-21.95	-	-	344	277	H
			*** 2.38928	22.66	ADV	32.1	-25.1	2.32	31.98	54	-22.02	-	-	344	277	H
			*** 2.38996	33.91	Pk	32.1	-25.1	0	40.91	-	-	74	-33.09	196	297	V
			*** 2.38907	35.29	Pk	32.1	-25.1	0	42.29	-	-	74	-31.71	196	297	V
			*** 2.38996	22.38	ADV	32.1	-25.1	2.32	31.7	54	-22.3	-	-	196	297	V
			*** 2.34565	22.58	ADV	32	-24.8	2.32	32.1	54	-21.9	-	-	196	297	V
		2478	*** 2483.5	38.38	Pk	32.7	-25.5	0	45.58	-	-	74	-28.42	324	103	H
			*** 2483.587	38.9	Pk	32.7	-25.5	0	46.1	-	-	74	-27.9	324	103	H
			*** 2483.5	25.1	ADV	32.7	-25.5	2.32	34.62	54	-19.38	-	-	324	103	H
			*** 2483.639	25.42	ADV	32.7	-25.5	2.32	34.94	54	-19.06	-	-	324	103	H
			*** 2483.5	33.45	Pk	32.7	-25.5	0	40.65	-	-	74	-33.35	240	101	V
			*** 2483.587	34.75	Pk	32.7	-25.5	0	41.95	-	-	74	-32.05	240	101	V
			*** 2483.5	21.96	ADV	32.7	-25.5	2.32	31.48	54	-22.52	-	-	240	101	V
			*** 2483.793	22.5	ADV	32.7	-25.5	2.32	32.02	54	-21.98	-	-	240	101	V

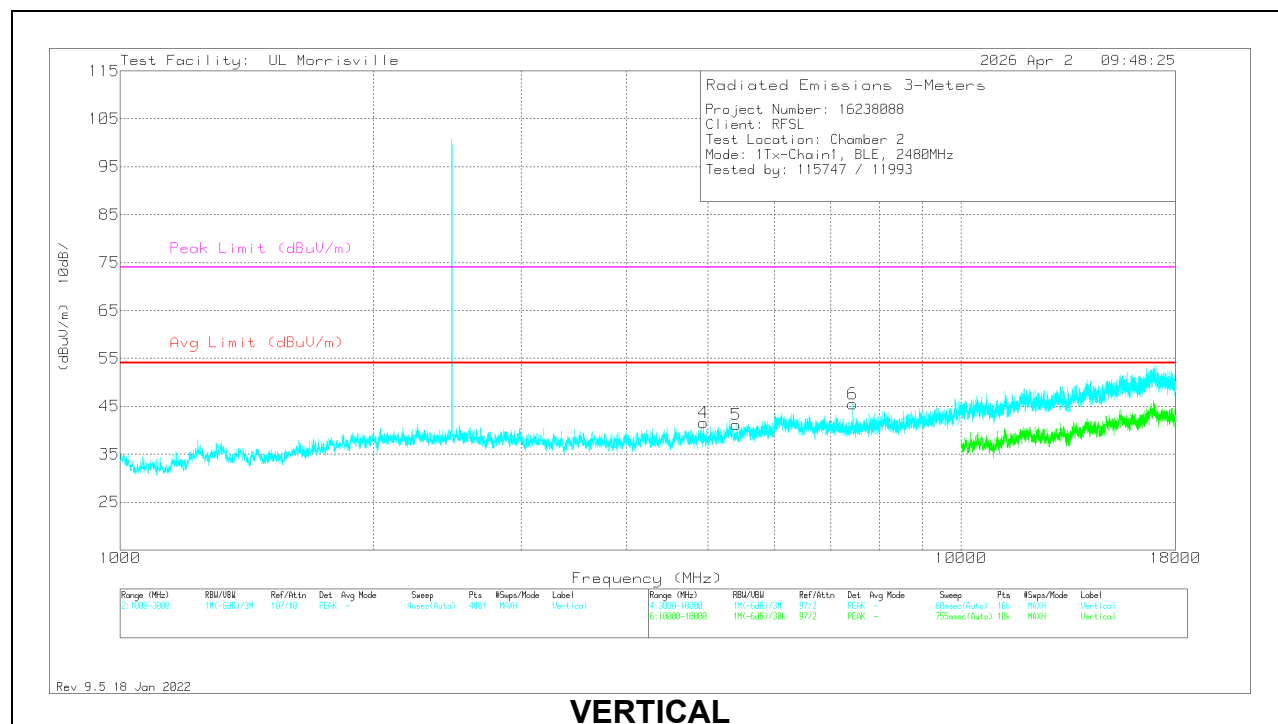
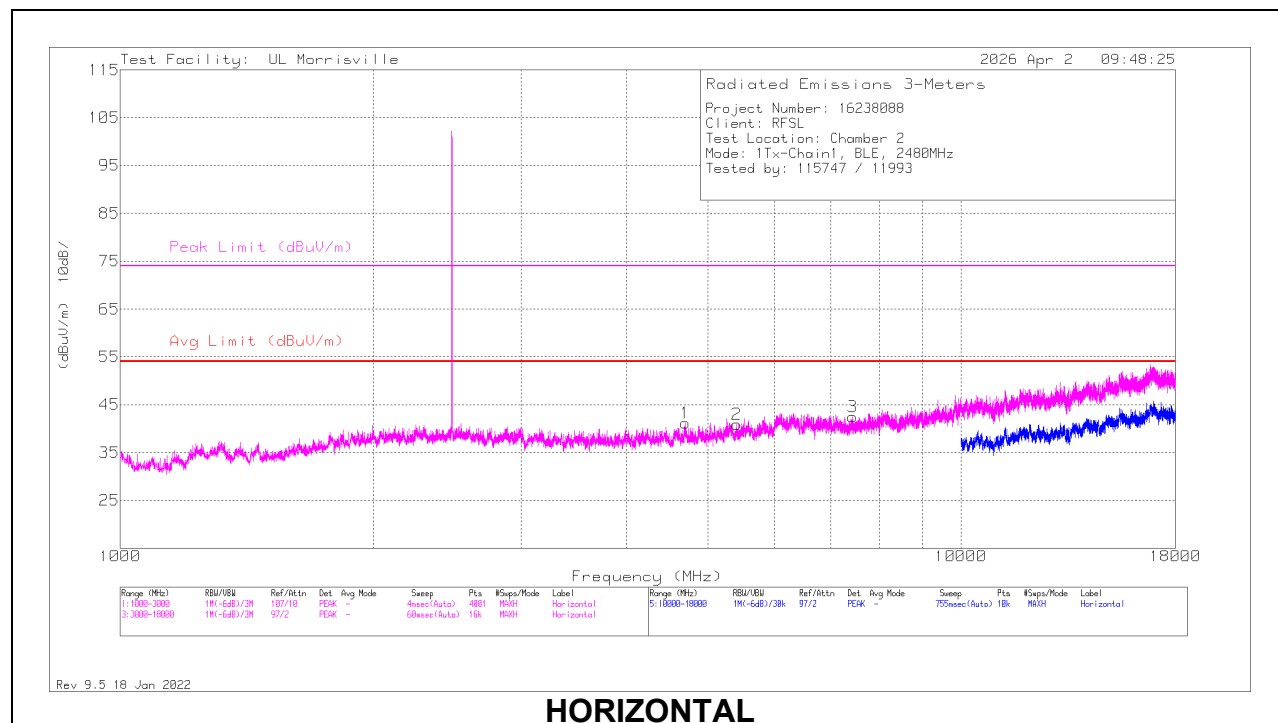
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS (Chain 1, 125kbps, 2480 MHz)



RADIATED EMISSIONS TEST DATA

Mode	Chain	Fund Freq [MHz]	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 ACF (dB)	Gain/Loss (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
BLE 1 Mbps	MIMO	2402	*** 4.85719	54.09	Pk	34.1	-45.9	0	42.29	54	-11.71	74	-31.71	0-360	101	H
			*** 8.14781	50.2	Pk	35.8	-41.2	0	44.8	54	-9.2	74	-29.2	0-360	101	H
			*** 9.45938	50.52	Pk	36.6	-41.8	0	45.32	54	-8.68	74	-28.68	0-360	199	H
			*** 4.21031	54.42	Pk	33.5	-46.2	0	41.72	54	-12.28	74	-32.28	0-360	200	V
			*** 8.45438	51.22	Pk	35.8	-41.7	0	45.32	54	-8.68	74	-28.68	0-360	200	V
			*** 9.40219	49.82	Pk	36.5	-40.4	0	45.92	54	-8.08	74	-28.08	0-360	101	V
			7.20469	53.72	Pk	35.6	-42.4	0	46.92	-	-	-	-	0-360	199	H
			7.20656	59.11	Pk	35.6	-42.4	0	52.31	-	-	-	-	0-360	101	V
			*** 4.69313	53.73	Pk	33.8	-45.4	0	42.13	54	-11.87	74	-31.87	0-360	199	H
			*** 7.32	54.73	Pk	35.5	-43.2	0	47.03	54	-6.97	74	-26.97	0-360	101	H
			*** 9.37031	50.88	Pk	36.4	-41.1	0	46.18	54	-7.82	74	-27.82	0-360	101	H
			*** 4.82813	54.37	Pk	34	-46.6	0	41.77	54	-12.23	74	-32.23	0-360	200	V
		2440	*** 7.31929	62.44	PK2	35.5	-43.2	0	54.74	-	-	74	-19.26	330	104	V
			*** 7.3194	54.88	ADV	35.5	-43.2	1.39	48.57	54	-5.43	-	-	330	104	V
			*** 9.40594	48.96	Pk	36.5	-40.2	0	45.26	54	-8.74	74	-28.74	0-360	101	V
			*** 4.874.063	51.81	Pk	34.2	-44.5	0	41.51	54	-12.49	74	-32.49	0-360	200	H
			*** 7.349.063	47.1	Pk	35.4	-42.7	0	39.8	54	-14.2	74	-34.2	0-360	101	H
			*** 8.351.25	49.18	Pk	35.9	-41.6	0	43.48	54	-10.52	74	-30.52	0-360	101	H
		2480	*** 3.541.875	53.5	Pk	32.9	-44.8	0	41.6	54	-12.4	74	-32.4	0-360	200	V
			*** 7.349.063	48.24	Pk	35.4	-42.7	0	40.94	54	-13.06	74	-33.06	0-360	200	V
			*** 8.146.875	49.85	Pk	36	-41.8	0	44.05	54	-9.95	74	-29.95	0-360	101	V
			*** 4.88063	53.3	Pk	34.1	-45.4	0	42	54	-12	74	-32	0-360	101	H
BLE 2 Mbps	MIMO	2404	*** 7.4325	52.51	Pk	35.6	-42.5	0	45.61	54	-8.39	74	-28.39	0-360	101	H
			*** 9.30094	49.98	Pk	36.3	-40.1	0	46.18	54	-7.82	74	-27.82	0-360	200	H
			*** 4.55906	54.02	Pk	33.8	-46.3	0	41.52	54	-12.48	74	-32.48	0-360	200	V
			*** 7.43551	59.61	PK2	35.6	-42.6	0	52.61	-	-	74	-21.39	328	108	V
			*** 7.4354	49.8	ADV	35.6	-42.5	2.32	45.22	54	-8.78	-	-	328	108	V
			*** 9.405	49.33	Pk	36.5	-40.3	0	45.53	54	-8.47	74	-28.47	0-360	101	V
		2440	*** 4.83469	53.77	Pk	34	-46.4	0	41.37	54	-12.63	74	-32.63	0-360	200	H
			*** 7.31813	55.57	Pk	35.5	-43.1	0	47.97	54	-6.03	74	-26.03	0-360	101	H
			*** 9.40313	50.09	Pk	36.5	-40.4	0	46.19	54	-7.81	74	-27.81	0-360	200	H
			*** 4.8525	54.16	Pk	34.1	-45.7	0	42.56	54	-11.44	74	-31.44	0-360	101	V
			*** 7.31995	61.91	PK2	35.5	-43.2	0	54.21	-	-	74	-19.79	333	112	V
			*** 7.31867	52.38	ADV	35.5	-43.1	2.32	47.1	54	-6.9	-	-	333	112	V
		2478	*** 9.40688	49.86	Pk	36.5	-40.2	0	46.16	54	-7.84	74	-27.84	0-360	200	V
			*** 4.87688	53.51	Pk	34.1	-45.3	0	42.31	54	-11.69	74	-31.69	0-360	199	H
			*** 7.43531	52.98	Pk	35.6	-42.5	0	46.08	54	-7.92	74	-27.92	0-360	199	H
			*** 9.30938	50.01	Pk	36.3	-40.1	0	46.21	54	-7.79	74	-27.79	0-360	101	H
			*** 3.94406	53.9	Pk	33.3	-44.7	0	42.5	54	-11.5	74	-31.5	0-360	101	V
			*** 7.43547	60.13	PK2	35.6	-42.6	0	53.13	-	-	74	-20.87	333	110	V
			*** 7.43521	50.11	ADV	35.6	-42.5	2.32	45.53	54	-8.47	-	-	333	110	V
			*** 9.39844	50.76	Pk	36.5	-40.6	0	46.66	54	-7.34	74	-27.34	0-360	101	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

ADV - Linear Voltage Average

11. SETUP PHOTOS

Please refer to R16238088-EP1d for setup photos

END OF REPORT