



TEST REPORT

Report Number: R14311589-E2

Applicant : Sony Corporation
1-7-1 Konan Minato-ku
Tokyo, 108-0075, Japan

FCC ID : PY7-17565F

EUT Description : GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS,
WPT & NFC

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

Date Of Issue:

2022-08-22

Prepared by:

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REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2022-08-02	Initial Issue	Charles Moody
V2	2022-08-10	Updated sections 7.3, 7.4 and added units to Corrected EIRP column	Charles Moody
V3	2022-08-12	Updated with DFS spot check data	Charles Moody
V4	2022-08-15	Updated support and measurement equipment used for DFS testing	Charles Moody
V5	2022-08-22	Updated section 7.2 to reflect device differences	Charles Moody

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Sony Corporation
1-7-1 Konan Minato-ku
Tokyo, 108-0075, Japan

EUT DESCRIPTION: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC

SERIAL NUMBER: QV770029D8, QV770085D8

SAMPLE RECEIPT DATE: 2022-06-27

DATE TESTED: 2022-07-25 to 2022-07-29

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C and E	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	Requirement	Result	Comment
See Comment	Duty Cycle	Not performed	Radiated spot checks performed to justify data reuse.
See Comment	20/26dB BW		
15.247 (a) (2) 15.407 (e)	6dB BW		
15.247 (a)(1)	Hopping Frequency Separation		
15.247 (a)(1)(iii)	Number of Hopping Channels		
15.247 (a)(1)(iii)	Average Time of Occupancy		
See Comment	Average Power		
15.247 (d)	Conducted Spurious Emissions		
15.247 (b) (1,3) 15.407(a)(1-3)(h)(1)	Output Power		
15.247 (e) 15.407 (a) (1-3)	PSD		
15.207	AC Mains Conducted Emissions		
15.209, 15.205, 15.225 (d), 15.407(b)	Radiated Emissions	See Comment	Radiated spot checks performed on worst-case channels only to justify data reuse.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013 and KDB 484596 D01 Referencing Test Data v01.

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
<input type="checkbox"/>	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	825374
<input checked="" type="checkbox"/>	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	U _{Lab}
All emissions, radiated	6.01 dB

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

6. EQUIPMENT UNDER TEST

6.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE PHONE with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT & NFC.

6.2. WORST-CASE CONFIGURATION AND MODE

Band edge and radiated emissions between 1GHz and 18 GHz were performed with the EUT set to transmit at the worst-case channels and data rates based on the reports of an electrically identical model (see section 7 for data reuse information).

The antenna of the EUT was investigated in three orthogonal orientations X/Y/Z. See the table below for WC Orientations.

Technology	Orientation
2.4 WLAN	Y
5.0 WLAN	X
BLE Chain 0	Y
BLE Chain 1	Z
BT	Y
WPT	X

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

Technology	Test Type	Frequency (MHz)	Mode	Data Rate	Chain
2.4 WLAN (DTS)	Band Edge	2462	HE20 242T/RU61	MCS0	MIMO
	RSE	2437	HE20 242T/RU61	MCS0	MIMO
5 WLAN (UNII)	5.2 Band Edge	5210	11ac80	MCS0	MIMO
	5.3 Band Edge	5290	11ac80	MCS0	MIMO
	5.6 Band Edge	5530	11ac80	MCS0	MIMO
	5.8 Band Edge	5775	11ac80	MCS0	MIMO
	RSE	5260	11a	6 Mbps	MIMO
BLE	Band Edge	2480	BLE (GFSK)	2 Mbps	0
	RSE	2440	BLE (GFSK)	2 Mbps	1
BT	Band Edge	2480	GFSK/DH-5	1 Mbps	0
	RSE	2441	GFSK/DH-5	1 Mbps	0

The worst-case scenario for WPT is as follows:

The EUT emissions should be measured from 9kHz to 30MHz in its X orientation. The two devices shall be oriented perpendicularly, with coils aligned, and no separation distance between the two devices. Additionally, the device serving as the supply, shall have a battery greater than 70%. The device that is being charged should also have a battery of 50%.

6.3. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Sony	XQZ-UC11-010-236-21	1821W34209742	NA
Laptop	HP	14-dk1003dx	5CG016B3DL	N/A
Access Point	ASUS	GT-AXE11000	M9IG0X400839JKM	N/A
AP Power Supply	AcBel	ADD011	17AG213403440A	N/A
Controller Laptop	Lenovo	T450s	RTP0416PCOBHFNX	N/A
Laptop Power Supply	Lenovo	ADLX90NLC2A	11S45N0247Z1ZS9B51A0Z7	N/A

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	USB-C	Non-Shielded	<3m	Connected to Power Supply
2	3.5mm	1	3.5mm Audio	Non-Shielded	<1m	Connected to headphones

7. REUSE OF TEST DATA

7.1. INTRODUCTION

According to the manufacturer, FCC ID: PY7-58692W and FCC ID: PY7-17565F unlicensed radios (WLAN/BT/BLE/WPT) are electrically identical. The FCC ID: PY7-58692W test data shall remain representative of FCC ID: PY7-17565F so, FCC ID: PY7-17565F leverages test data from FCC ID: PY7-58692W.

Manufacturer has also declared that DFS mechanism and software is identical to the lead device (PY7-58692W) and is to be reused.

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 PY7-58692W and PY7-17565F:

Sony Corporation hereby declares that the hardware of WLAN 2.4GHz , WLAN 5GHz, Bluetooth, GPS and WPT is identical among PY7-58692W and PY7-17565F. The change is related to the cellular and NFC radio. Therefore the following report/data of PY7-58692W may represent for PY7-17565F.

7.3. REFERENCE DETAIL

Equipment Class	Reference FCC ID	Report Title/Section
DSS (BT)	PY7-58692W	1M2207200079-05.PY7 PY7-58692W RF Bluetooth Test Report / All sections
DTS (BLE)	PY7-58692W	1M2207200079-06.PY7 PY7-58692W RF BT LE Test Report / All sections
DTS (WLAN)	PY7-58692W	1M2207200079-08.PY7 PY7-58692W RF WLAN Test Report / All sections 1M2207200079-09.PY7 PY7-58692W RF WLAN (OFDMA) Test Report / All sections
NII (WLAN)	PY7-58692W	1M2207200079-10.PY7 PY7-58692W RF UNII Test Report / All sections 1M2207200079-11.PY7 PY7-58692W RF UNII (OFDMA) Test Report / All sections
NII (DFS)	PY7-58692W	1M2207200079-12.PY7 PY7-58692W RF DFS Test Report / All sections
DCD (WPT)	PY7-58692W	1M2207200079-15.PY7 PY7-58692W RF 15C Wireless Charging Test Report / All sections

7.4. SPOT CHECK VERIFICATION RESULTS SUMMARY

Spot check verification has been done on device PY7-17565F for radiated spurious emissions. The data from the application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the summary.

PY7-17565F SPOT CHECK RESULTS									
Technology	Test Item	Channel	Measured Frequency (MHz)	PY7-58692W		PY7-17565F		Delta (dB) <+3dB	
				PK Reading (dBuV/m)	AV Reading (dBuV/m)	PK Reading (dBuV/m)	AV Reading (dBuV/m)	PK	AV
BT (GFSK)	RBE	78	2483	61.04	35.16	48.87	31.92	-12.17	-3.24
	RSE	39	12205	54.12	42.30	50.82	36.91	-3.30	-5.39
BLE (GFSK)	RBE	39	2483	63.42	46.41	48.42	36.48	-15.00	-9.93
	RSE	19	12200	51.86	39.91	50.46	42.55	-1.4	2.64
2.4GHz WLAN (HE20)	RBE	11	2483	62.76	47.27	55.56	40.62	-7.20	-6.67
	RSE	6	12185	56.49	46.09	50.71	38.57	-5.78	-7.52
5GHz WLAN (11ac80)	RBE	42	5149	59.15	46.58	53.42	41.17	-5.73	-5.41
	RBE	58	5350	58.73	46.17	54.78	41.57	-3.95	-4.60
	RBE	106	5460	61.78	47.02	47.95	36.04	-13.83	-
	RBE	155	5944	58.58	-	49.28	-	-9.3	-
	RSE	52	15780	59.99	48.50	53.66	41.06	-6.33	-7.44
Note: No AV limit for above scan, therefore no AV measurements just PK.									
WPT	RSE	148 kHz	0.592	11.08	-	5.51	-	-5.57	-
Technology / Mode	Test Item			PY7-58692W		PY7-17565F		PY7-58692W representative of PY7-17565F	
				Move time	Close time	Move time	Close time		
DFS	Channel move time and channel closing transmissions time			0.87s	5ms	0.8412s	8.8ms	Yes	

8. TEST AND MEASUREMENT EQUIPMENT

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

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	0.009-30MHz				
AT0079	Active Loop Antenna	ETS-Lindgren	6502	2021-08-19	2022-08-19
	1-18 GHz				
206211	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2022-03-21	2023-03-21
	Gain-Loss Chains				
C2-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2022-05-10	2023-05-10
C2-SAC03	Gain-loss string: 1-18GHz	Various	Various	2022-05-10	2023-05-10
	Receiver & Software				
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2022-03-08	2023-03-08
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
200540	Environmental Meter	Fisher Scientific	15-077-963	2021-09-27	2022-09-27

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

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
AT0072	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2022-05-11	2023-05-11
	Gain-Loss Chains				
C1-SAC03	Gain-loss string: 1-18GHz	Various	Various	2022-05-05	2023-05-05
	Receiver & Software				
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2022-04-14	2023-04-14
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
	Additional Equipment used				
s/n 181474341	Environmental Meter	Fisher Scientific	15-077-963	2021-09-27	2022-09-27

Test Equipment Used – DFS Equipment (Chamber 5)

Description	Manufacturer	Model Number	Equipment ID	Next Cal.	Last Cal.
DFS Chamber					
Spectrum Analyzer, PXA, 3Hz to 8.4GHz	Keysight	N9030A	SA0021	2023-07-14	2022-07-14
Signal Generator, MXG, 9kHz to 6GHz	Agilent	N5182B	SIG003	2023-05-19	2022-05-19
Additional Equipment used					
Environmental meter	Fisher Scientific	14-650-118-15557603	HI0096	2022-09-21	2021-09-21

9. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

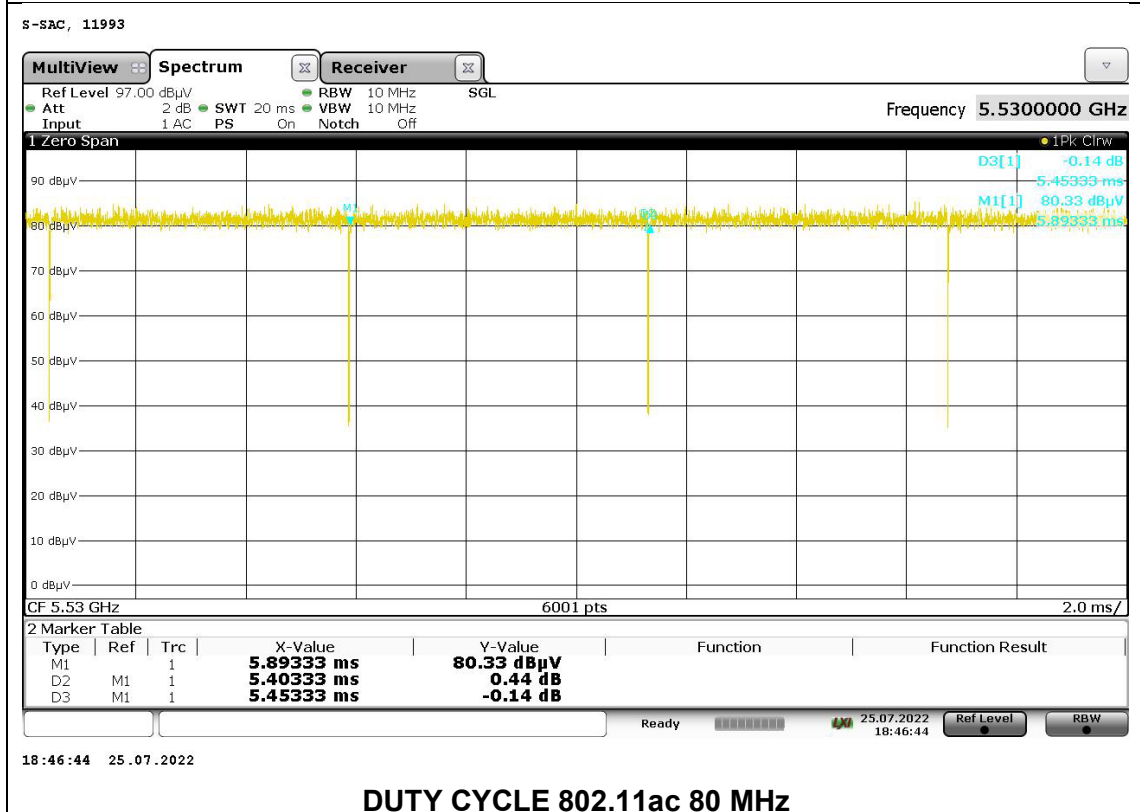
ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4 WLAN DTS						
802.11ax HE20	2.3756	2.4096	0.986	98.59%	0.00	0.010
5 WLAN UNII						
802.11ac 80MHz	5.4033	5.4533	0.991	99.08%	0.00	0.010
802.11a 6Mbps	2.0925	2.116	0.989	98.90%	0.00	0.010
BLE						
GFSK 2Mbps	1.068	1.88400	0.567	56.69%	4.94	0.936
BT						
GFSK (DH-5) 1Mbps	2.870	3.750	0.765	76.53%	2.32	0.348

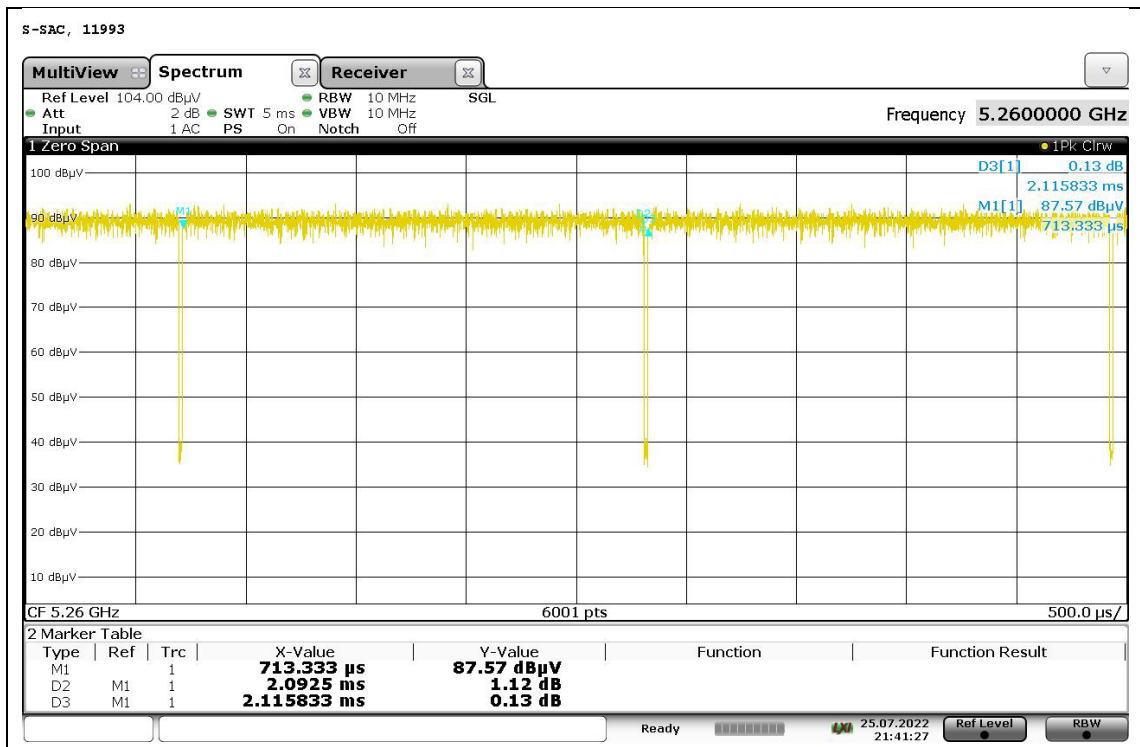
DUTY CYCLE PLOTS



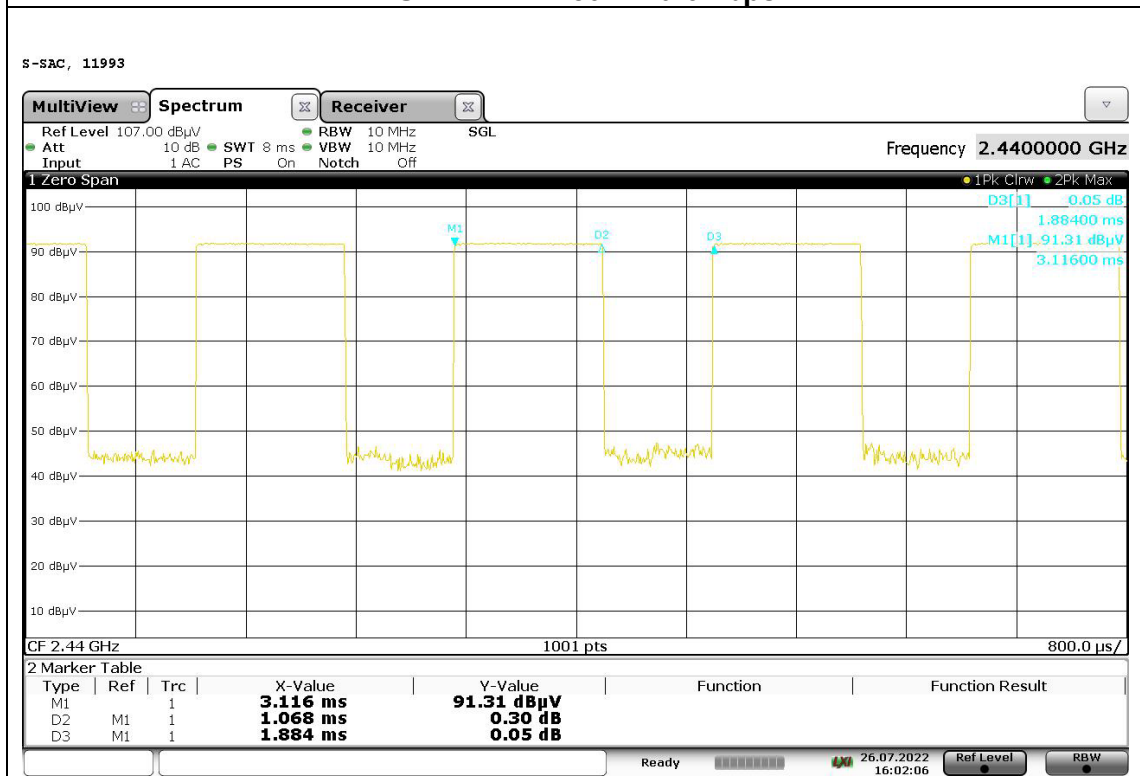
DUTY CYCLE 802.11ax HE20



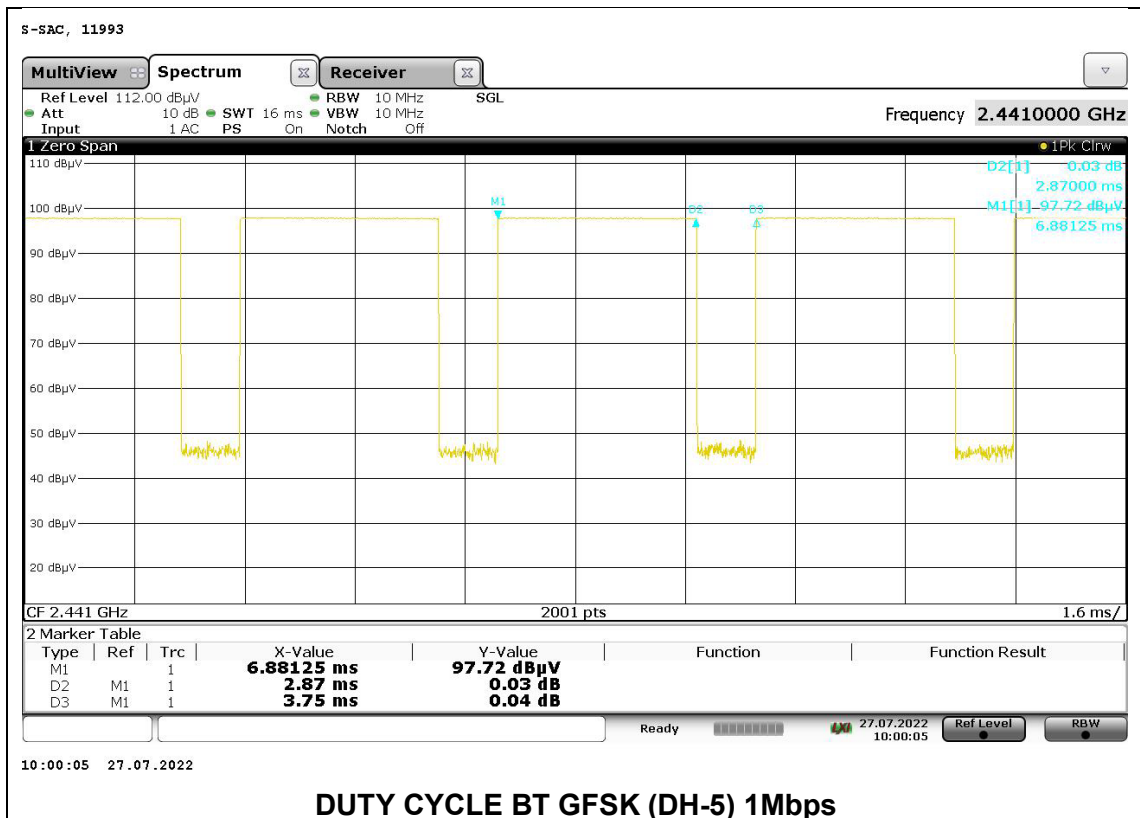
DUTY CYCLE 802.11ac 80 MHz



DUTY CYCLE 802.11a 6Mbps



DUTY CYCLE BLE GFSK 2Mbps



10. SPOT CHECK DATA

LIMITS

FCC §15.205 and §15.209

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 1.5 m above the ground plane for measurement above 1GHz and at 80 cm above the ground plane for measurements below 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.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with a minimum of 1/T video bandwidth with peak detector for BT average measurements, linear voltage averaging for BLE measurements, and linear voltage detection for WLAN measurements.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

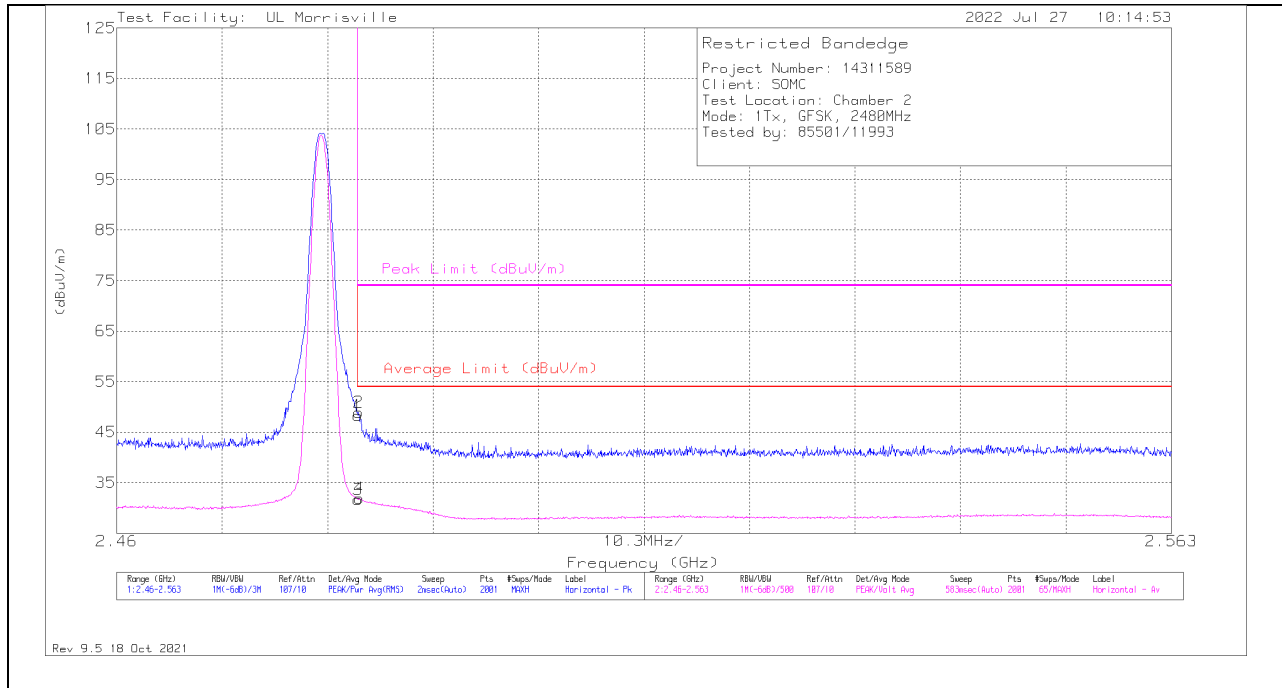
The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to worst case mode.

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.

10.1. BLUETOOTH

BANDEDGE (HIGH CHANNEL - CHAIN 0, GFSK)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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
1	*** 2.48354	40.26	Pk	32.3	-24.3	48.26	-	-	74	-25.74	20	222	H
2	*** 2.48364	40.87	Pk	32.3	-24.3	48.87	-	-	74	-25.13	20	222	H
3	*** 2.48354	23.71	V1TV	32.3	-24.3	31.71	54	-22.29	-	-	20	222	H
4	*** 2.48369	23.92	V1TV	32.3	-24.3	31.92	54	-22.08	-	-	20	222	H

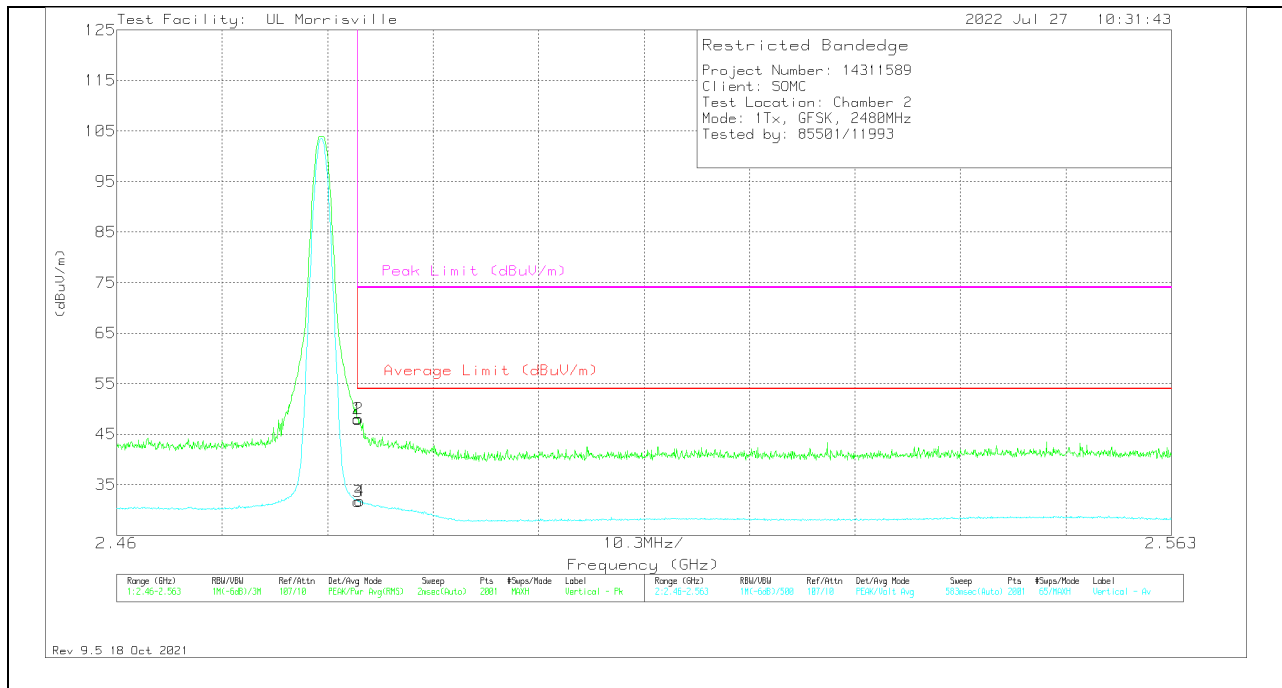
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

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

VERTICAL RESULT

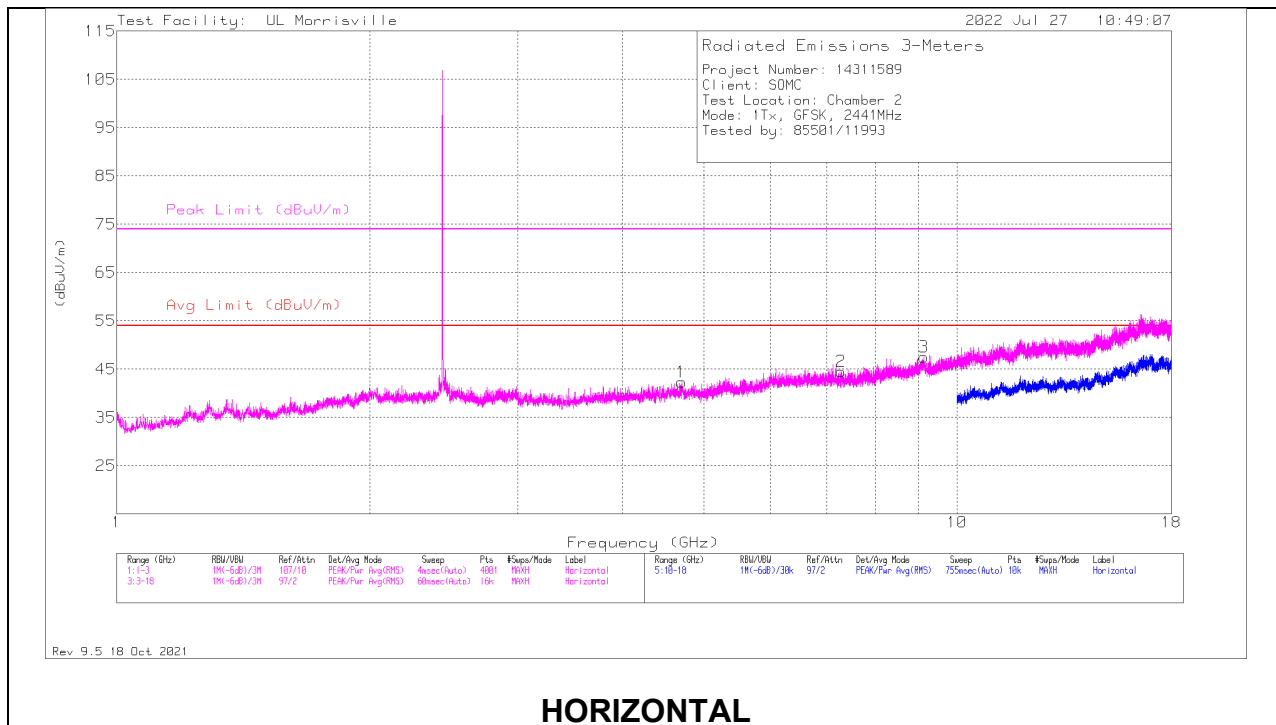


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48354	39.92	Pk	32.3	-24.3	47.92	-	-	74	-26.08	196	145	V
2	* ** 2.48359	40.03	Pk	32.3	-24.3	48.03	-	-	74	-25.97	196	145	V
3	* ** 2.48354	23.7	V1TV	32.3	-24.3	31.7	54	-22.3	-	-	196	145	V
4	* ** 2.48374	23.81	V1TV	32.3	-24.3	31.81	54	-22.19	-	-	196	145	V

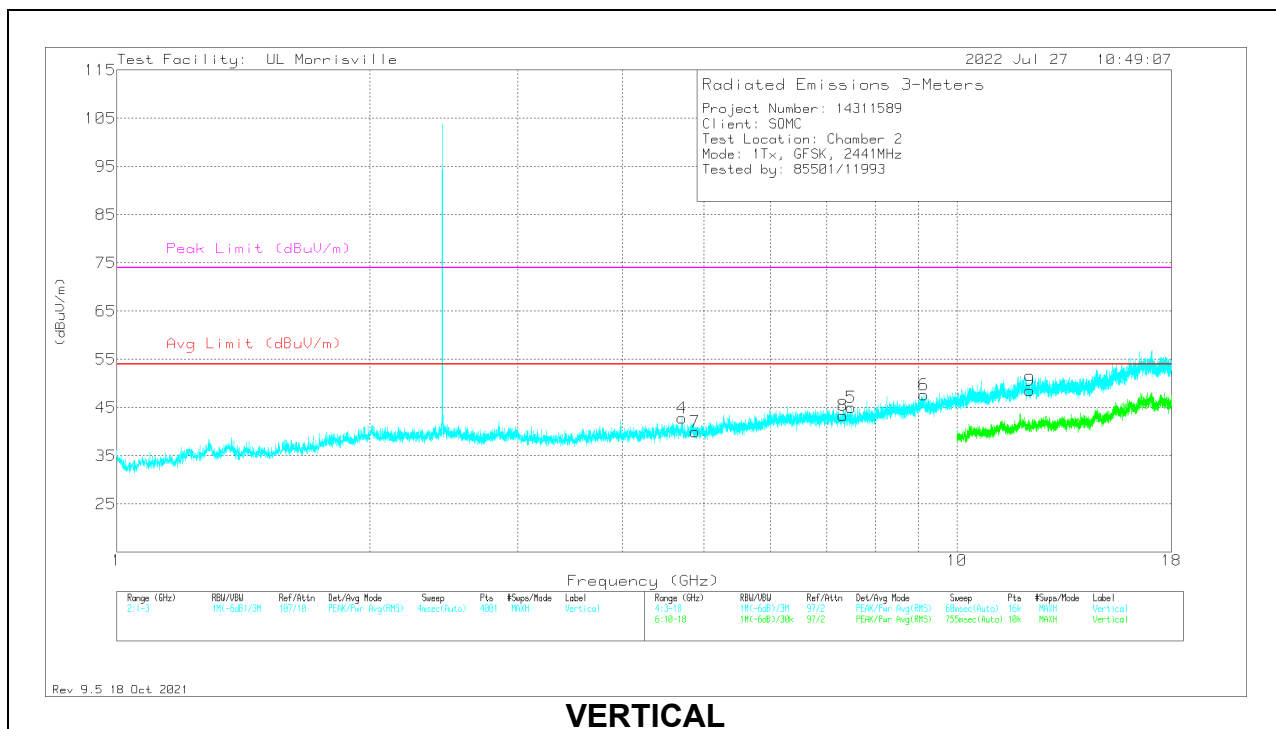
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL – CHAIN 0, GFSK



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.7025	39.15	Pk	34.1	-30.9	42.35	54	-11.65	74	-31.65	0-360	101	H
2	*** 7.28063	36.72	Pk	35.6	-27.8	44.52	54	-9.48	74	-29.48	0-360	199	H
3	*** 9.13688	36.31	Pk	36.2	-25	47.51	54	-6.49	74	-26.49	0-360	101	H
4	*** 4.71	39.61	Pk	34.1	-30.9	42.81	54	-11.19	74	-31.19	0-360	101	V
5	*** 7.48594	37.33	Pk	35.7	-28	45.03	54	-8.97	74	-28.97	0-360	199	V
6	*** 9.135	36.43	Pk	36.2	-25	47.63	54	-6.37	74	-26.37	0-360	199	V
7	*** 4.88156	39.79	PK2	33.9	-30.7	42.99	-	-	74	-31.01	239	217	V
	*** 4.88259	25.45	V1TV	33.9	-30.7	28.65	54	-25.35	-	-	239	217	V
8	*** 7.32473	37.78	PK2	35.6	-27	46.38	-	-	74	-27.62	91	248	V
	*** 7.32317	23.14	V1TV	35.6	-26.9	31.84	54	-22.16	-	-	91	248	V
9	*** 12.20561	36.02	PK2	38.8	-24	50.82	-	-	74	-23.18	165	324	V
	*** 12.20671	22.11	V1TV	38.8	-24	36.91	54	-17.09	-	-	165	324	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

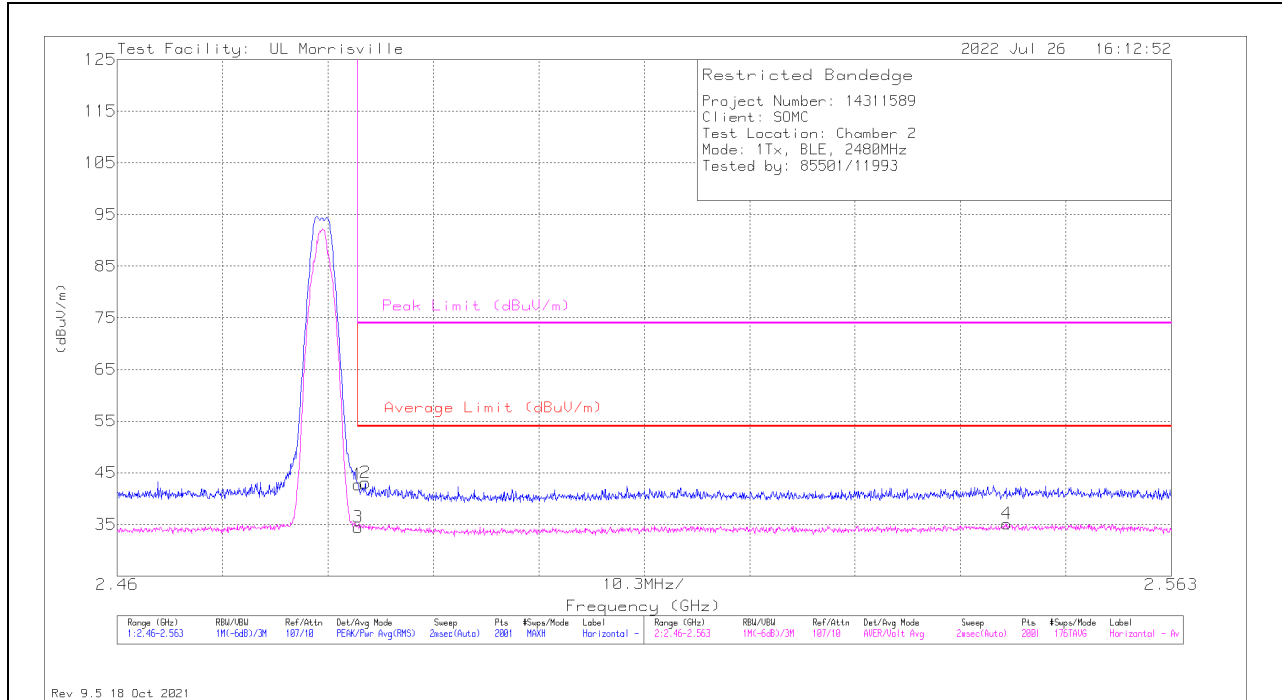
PK2 - Maximum Peak

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

10.2. BLE

BANDEDGE (HIGH CHANNEL – CHAIN 0, 2Mbps)

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	* ** 2.48354	34.72	Pk	32.3	-24.3	0	42.72	-	-	74	-31.28	310	360	H
2	* ** 2.48426	35.18	Pk	32.3	-24.4	0	43.08	-	-	74	-30.92	310	360	H
3	* ** 2.48354	21.5	ADV	32.3	-24.3	4.94	34.44	54	-19.56	-	-	310	360	H
4	** 2.54693	22.29	ADV	32.5	-24.6	4.94	35.13	54	-18.87	-	-	310	360	H

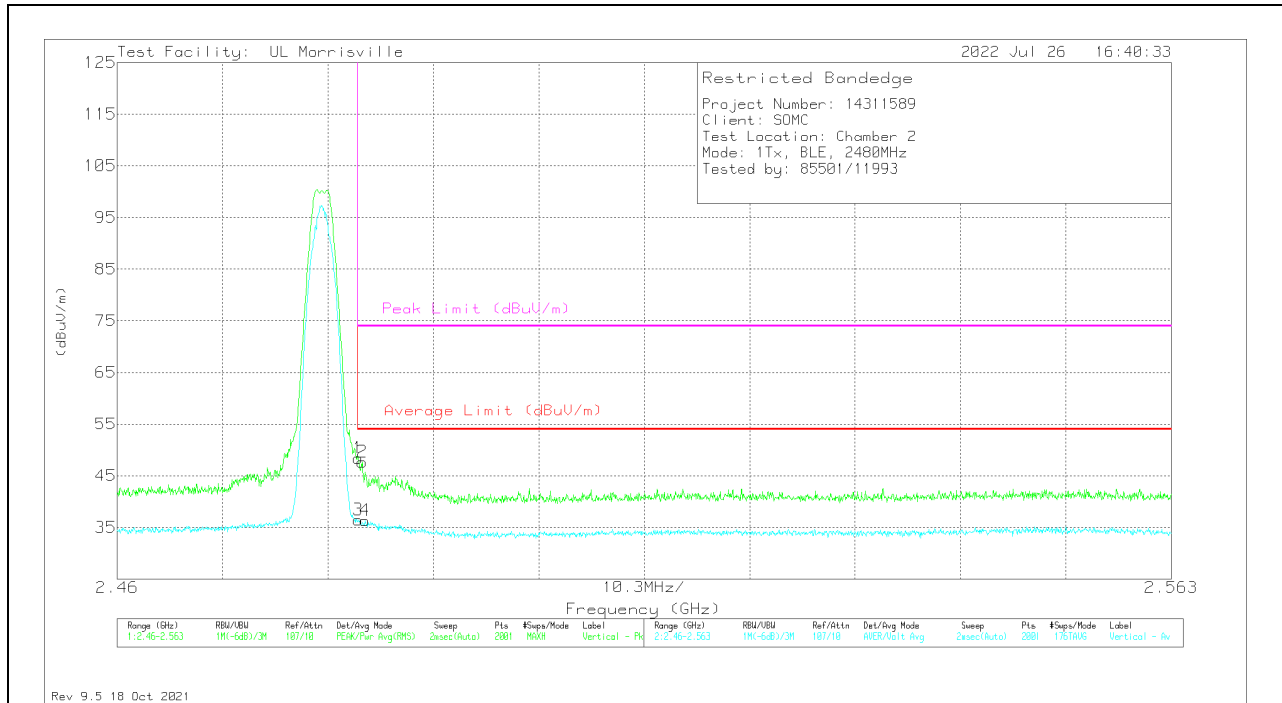
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL 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	* ** 2.48354	40.42	Pk	32.3	-24.3	0	48.42	-	-	74	-25.58	244	324	V
2	* ** 2.48395	39.78	Pk	32.3	-24.4	0	47.68	-	-	74	-26.32	244	324	V
3	* ** 2.48354	23.54	ADV	32.3	-24.3	4.94	36.48	54	-17.52	-	-	244	324	V
4	* ** 2.48421	23.51	ADV	32.3	-24.4	4.94	36.35	54	-17.65	-	-	244	324	V

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

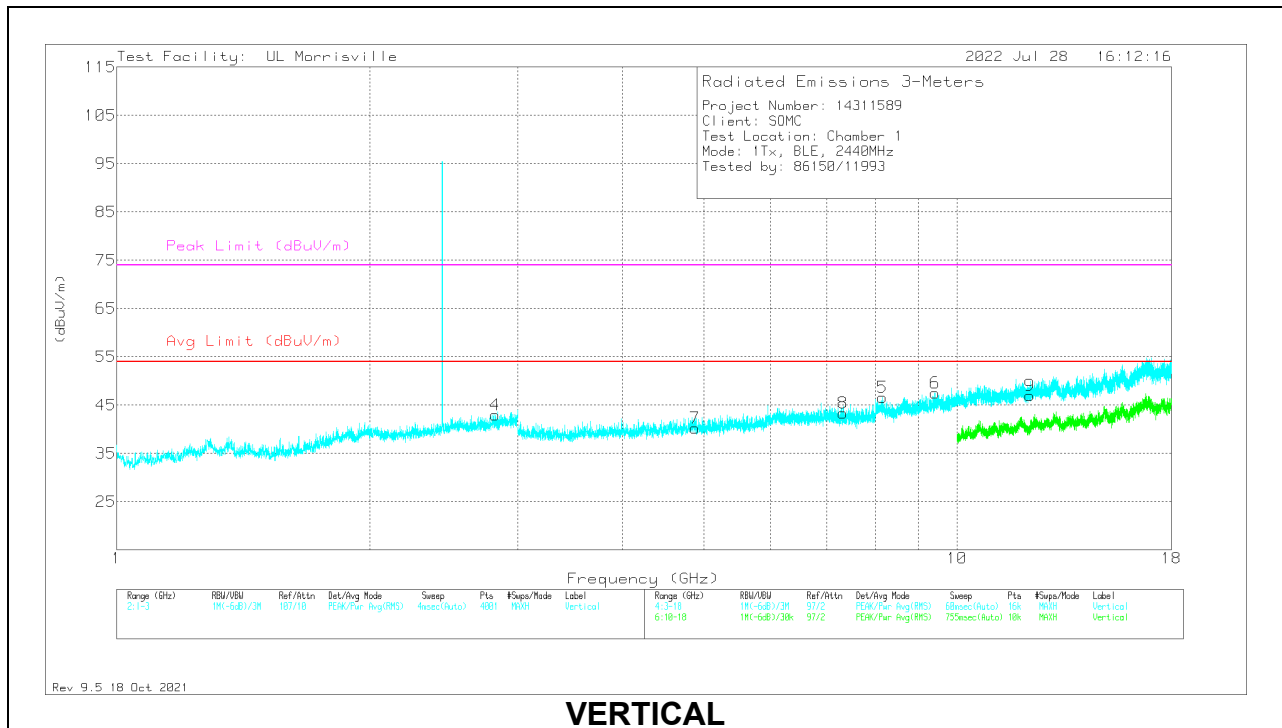
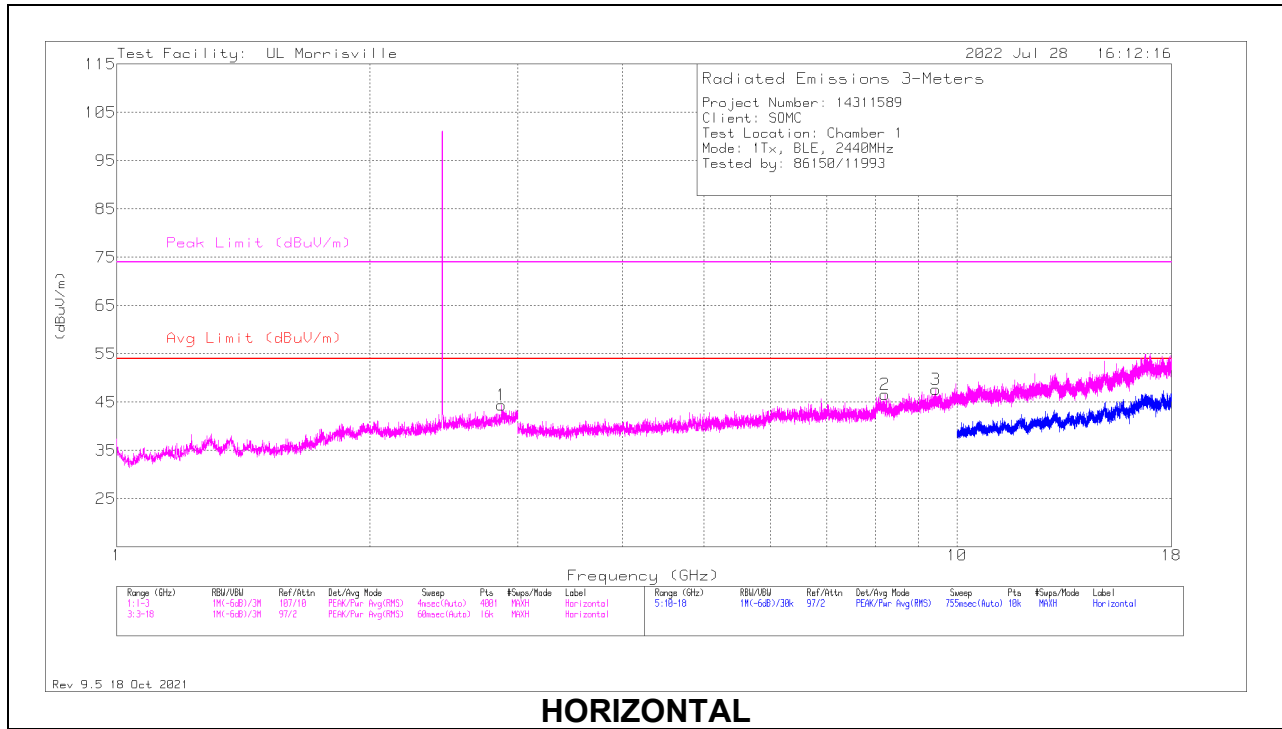
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL – CHAIN 1, 2Mbps



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	*** 2.87	35.38	Pk	32.7	-23.7	0	44.38	54	-9.62	74	-29.62	0-360	199	H
4	*** 2.8215	34.39	Pk	32.6	-24	0	42.99	54	-11.01	74	-31.01	0-360	200	V
2	*** 8.2125	40.27	Pk	35.8	-29.5	0	46.57	54	-7.43	74	-27.43	0-360	199	H
3	*** 9.43219	38.92	Pk	36.6	-27.9	0	47.62	54	-6.38	74	-26.38	0-360	199	H
5	*** 8.15344	39.86	Pk	35.8	-29.1	0	46.56	54	-7.44	74	-27.44	0-360	200	V
6	*** 9.41625	39.06	Pk	36.6	-28.1	0	47.56	54	-6.44	74	-26.44	0-360	200	V
7	*** 4.87993	41.73	PK2	34	-31.4	0	44.33	-	-	74	-29.67	169	127	V
	*** 4.87907	28.74	ADV	34	-31.3	4.94	36.38	54	-17.63	-	-	169	127	V
8	*** 7.32192	39.16	PK2	35.6	-29.4	0	45.36	-	-	74	-28.64	229	343	V
	*** 7.31893	26.46	ADV	35.6	-29.5	4.94	37.50	54	-16.51	-	-	229	343	V
9	*** 12.20172	38.16	PK2	38.9	-26.6	0	50.46	-	-	74	-23.54	274	105	V
	*** 12.20038	25.22	ADV	38.9	-26.5	4.94	42.56	54	-11.45	-	-	274	105	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

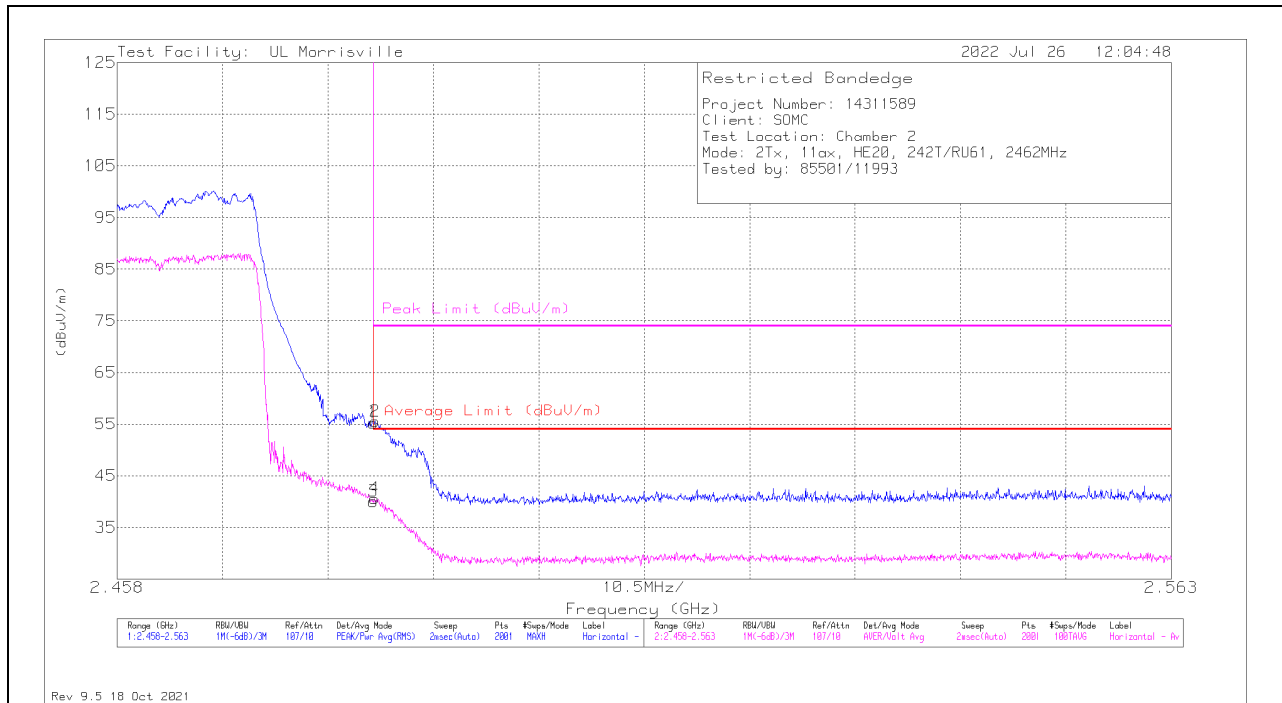
PK2 - Maximum Peak

ADV - Linear Voltage Average

10.3. 2.4GHz WLAN

BANDEDGE (HIGH CHANNEL – 2TX, 802.11ax HE20 242T/RU61)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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
1	*** 2.48352	47.22	Pk	32.3	-24.3	55.22	-	-	74	-18.78	87	169	H
2	*** 2.48367	47.56	Pk	32.3	-24.3	55.56	-	-	74	-18.44	87	169	H
3	*** 2.48352	32.05	ADV	32.3	-24.3	40.05	54	-13.95	-	-	87	169	H
4	*** 2.48362	32.62	ADV	32.3	-24.3	40.62	54	-13.38	-	-	87	169	H

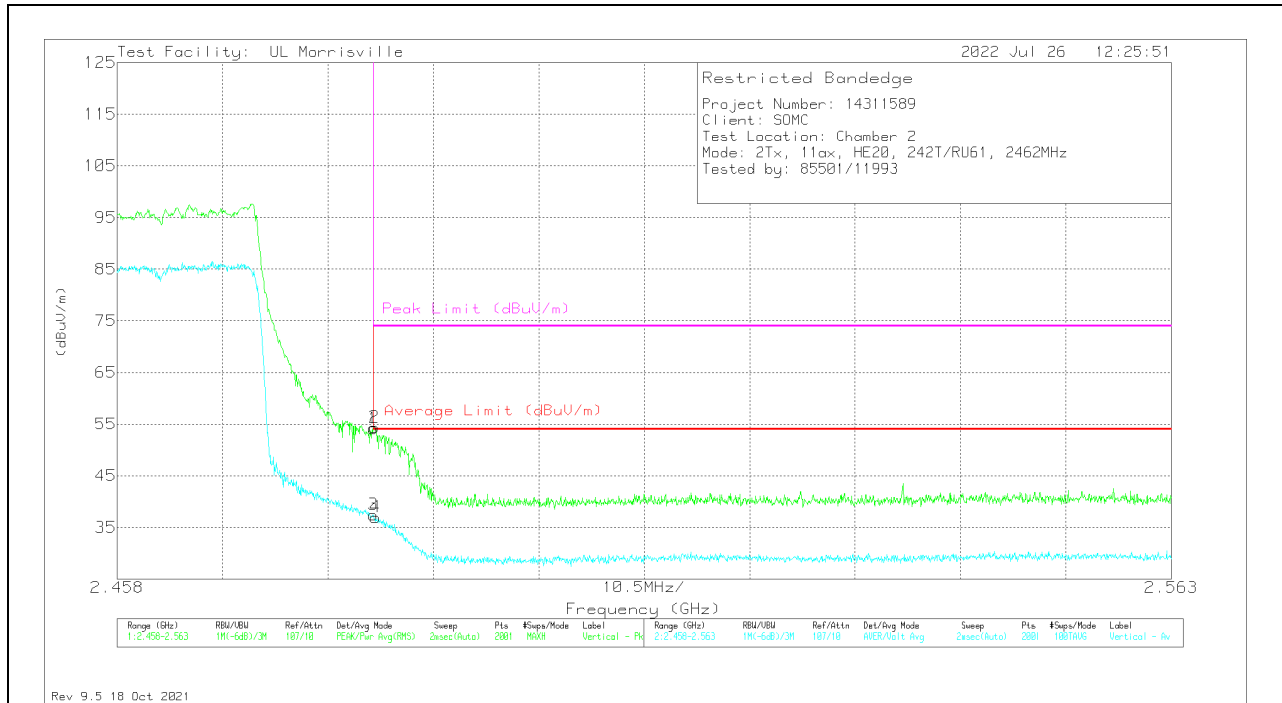
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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
1	*** 2.48352	46.18	Pk	32.3	-24.3	54.18	-	-	74	-19.82	282	104	V
2	*** 2.48362	46.38	Pk	32.3	-24.3	54.38	-	-	74	-19.62	282	104	V
3	*** 2.48352	29.47	ADV	32.3	-24.3	37.47	54	-16.53	-	-	282	104	V
4	*** 2.48373	28.97	ADV	32.3	-24.3	36.97	54	-17.03	-	-	282	104	V

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

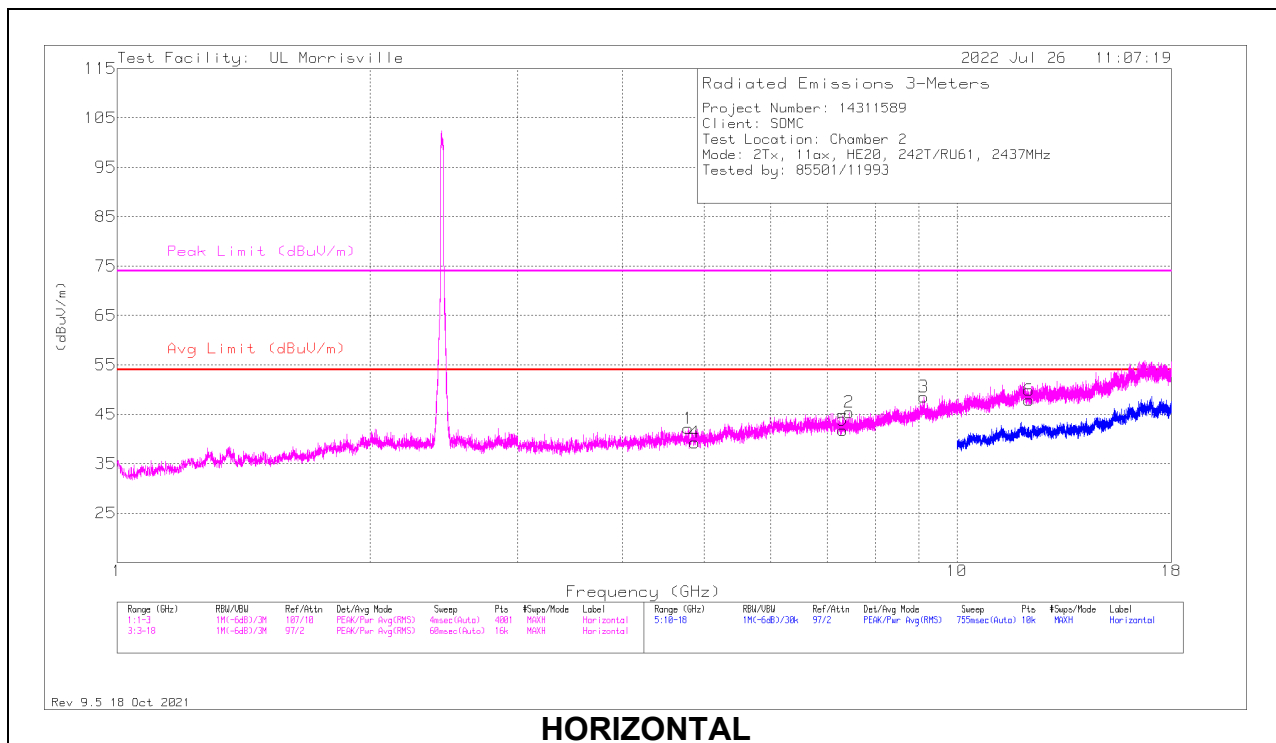
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

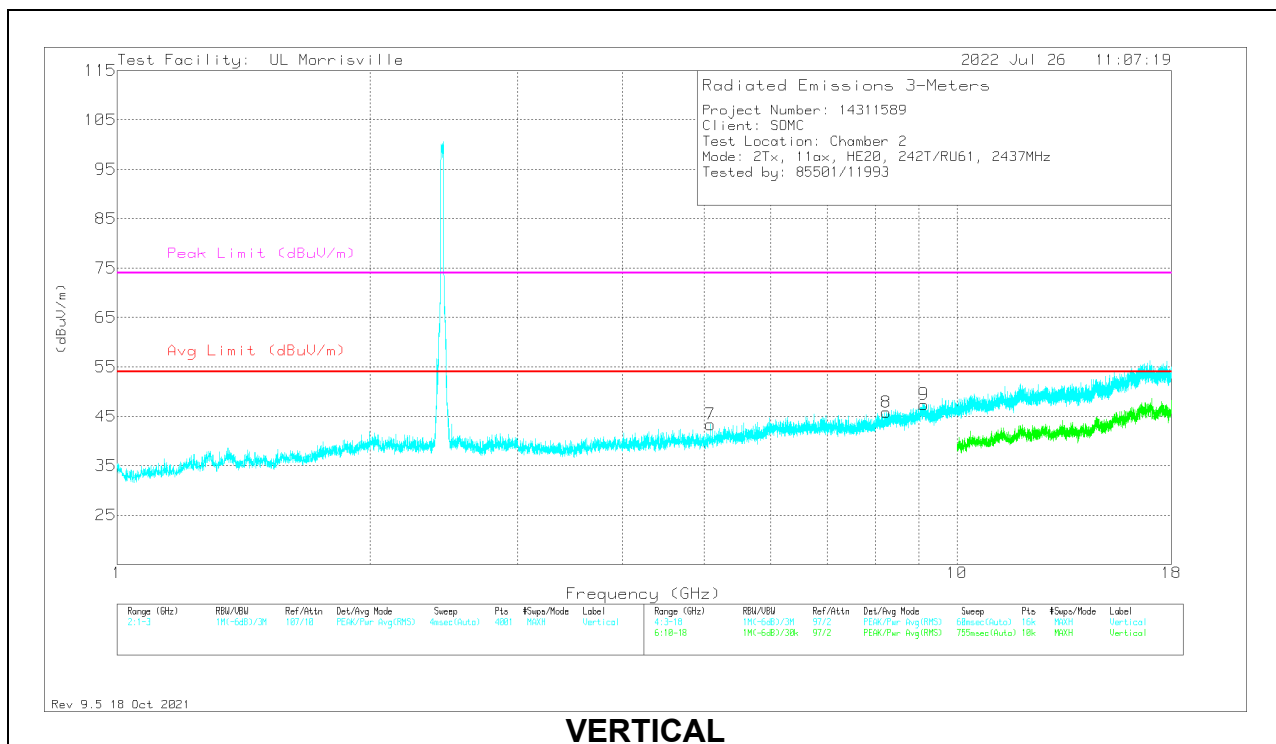
ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

HIGH CHANNEL 2TX, 802.11ax HE20 242T/RU61



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.78594	38.92	Pk	34	-30.8	42.12	54	-11.88	74	-31.88	0-360	101	H
2	* ** 7.44	37.28	Pk	35.6	-27.5	45.38	54	-8.62	74	-28.62	0-360	200	H
3	* ** 9.12879	38.7	PK2	36.2	-25.1	49.8	-	-	74	-24.2	195	181	H
	* ** 9.12997	25.86	ADV	36.2	-25.1	36.96	54	-17.04	-	-	195	181	H
4	* ** 4.87593	39.4	PK2	33.9	-30.8	42.5	-	-	74	-31.5	282	279	H
	* ** 4.87503	27.11	ADV	33.9	-30.8	30.21	54	-23.79	-	-	282	279	H
5	* ** 7.31272	42.38	PK2	35.6	-27	50.98	-	-	74	-23.02	282	279	H
	* ** 7.31188	25.12	ADV	35.6	-27	33.72	54	-20.28	-	-	282	279	H
6	* ** 12.18574	36.01	PK2	38.8	-24.1	50.71	-	-	74	-23.29	83	345	H
	* ** 12.18618	23.87	ADV	38.8	-24.1	38.57	54	-15.43	-	-	83	345	H
7	* ** 5.08688	40.06	Pk	34.1	-30.8	43.36	54	-10.64	74	-30.64	0-360	101	V
8	* ** 8.23875	37.09	Pk	35.8	-27.1	45.79	54	-8.21	74	-28.21	0-360	200	V
9	* ** 9.13781	36.07	Pk	36.2	-24.9	47.37	54	-6.63	74	-26.63	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

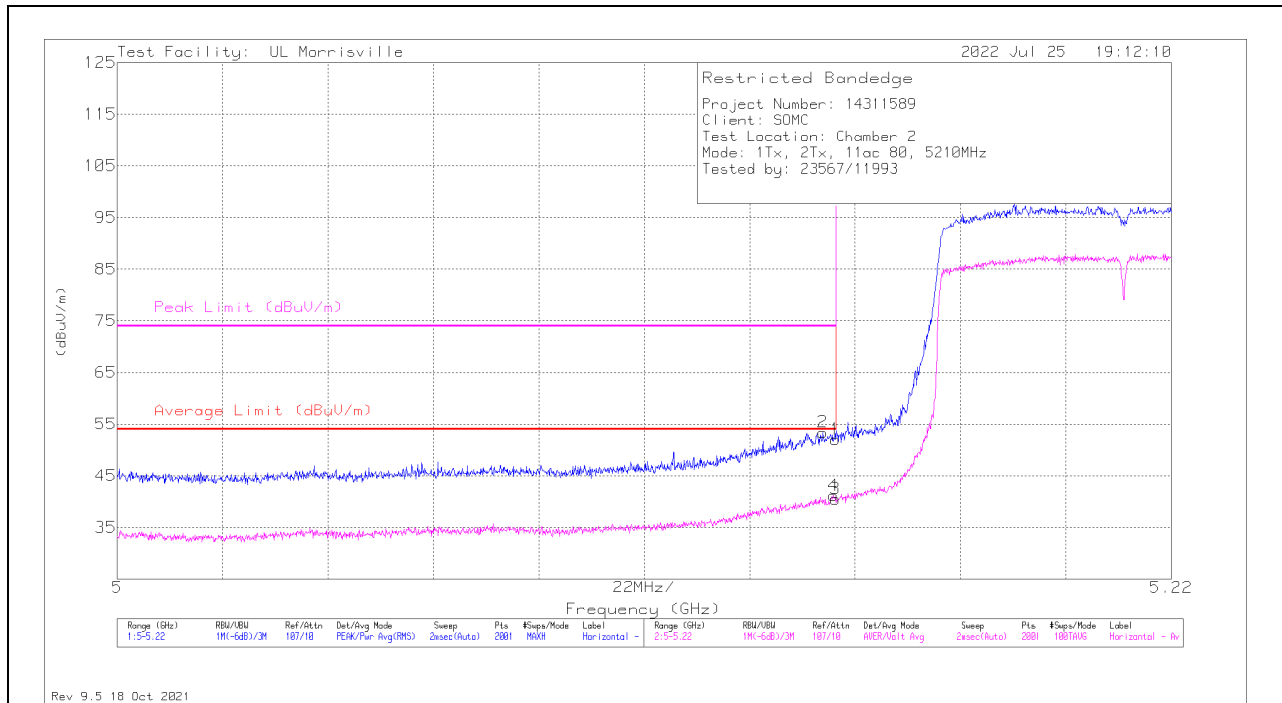
PK2 - Maximum Peak

ADV - Linear Voltage Average

10.4. 5GHz WLAN

BANDEDGE (5.2 BAND LOW CHANNEL – 2TX, 802.11ac 80MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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
1	*** 5.14993	40.43	Pk	34.2	-22.6	52.03	-	-	74	-21.97	213	144	H
2	*** 5.14729	41.82	Pk	34.2	-22.6	53.42	-	-	74	-20.58	213	144	H
3	** 5.14993	28.93	ADV	34.2	-22.6	40.53	54	-13.47	-	-	213	144	H
4	*** 5.14949	29.57	ADV	34.2	-22.6	41.17	54	-12.83	-	-	213	144	H

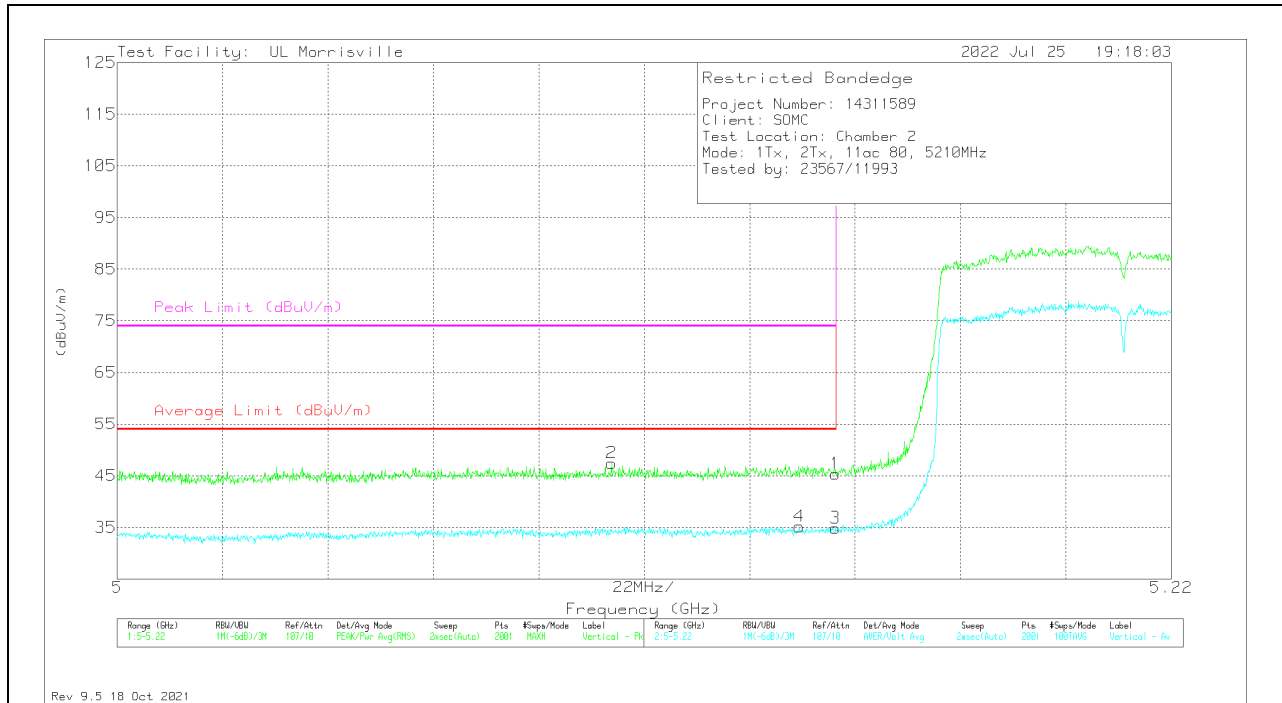
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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
1	* ** 5.14993	33.78	Pk	34.2	-22.6	45.38	-	-	74	-28.62	93	177	V
2	* ** 5.10318	35.56	Pk	34.2	-22.3	47.46	-	-	74	-26.54	93	177	V
3	* ** 5.14993	23.26	ADV	34.2	-22.6	34.86	54	-19.14	-	-	93	177	V
4	* ** 5.14234	23.46	ADV	34.2	-22.5	35.16	54	-18.84	-	-	93	177	V

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

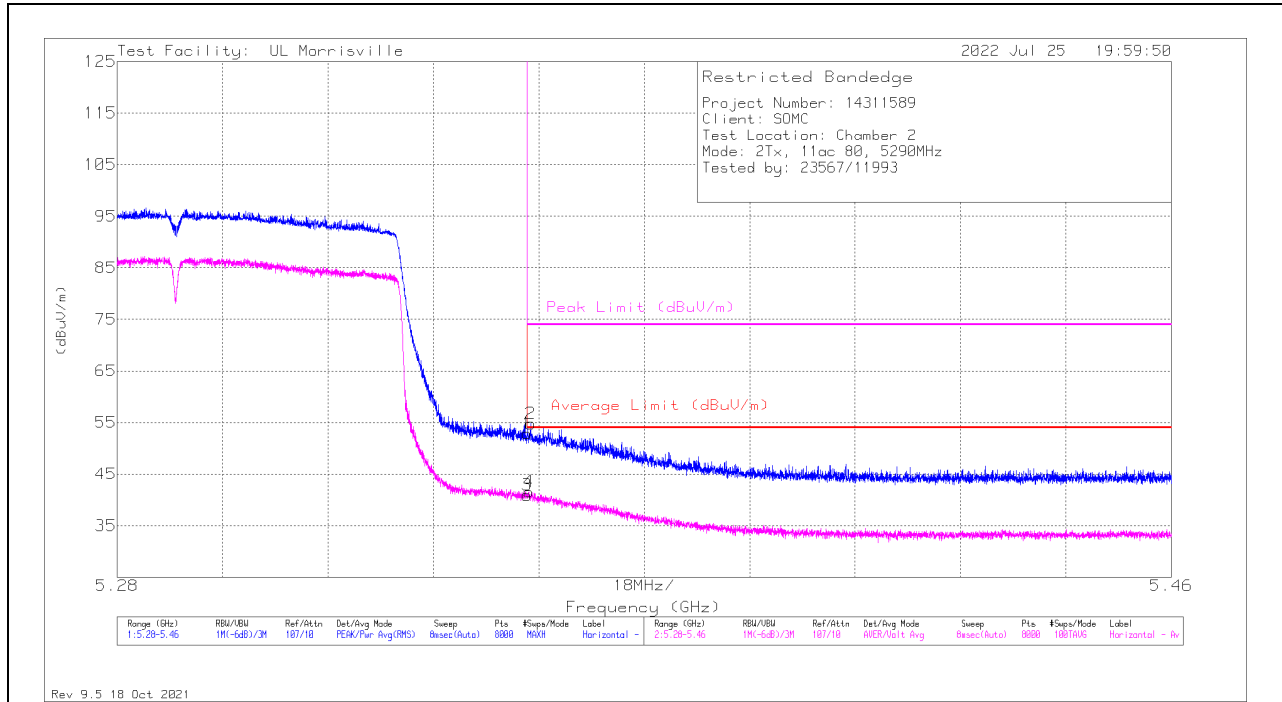
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (5.3 BAND HIGH CHANNEL – 2TX, 802.11ac 80MHz)

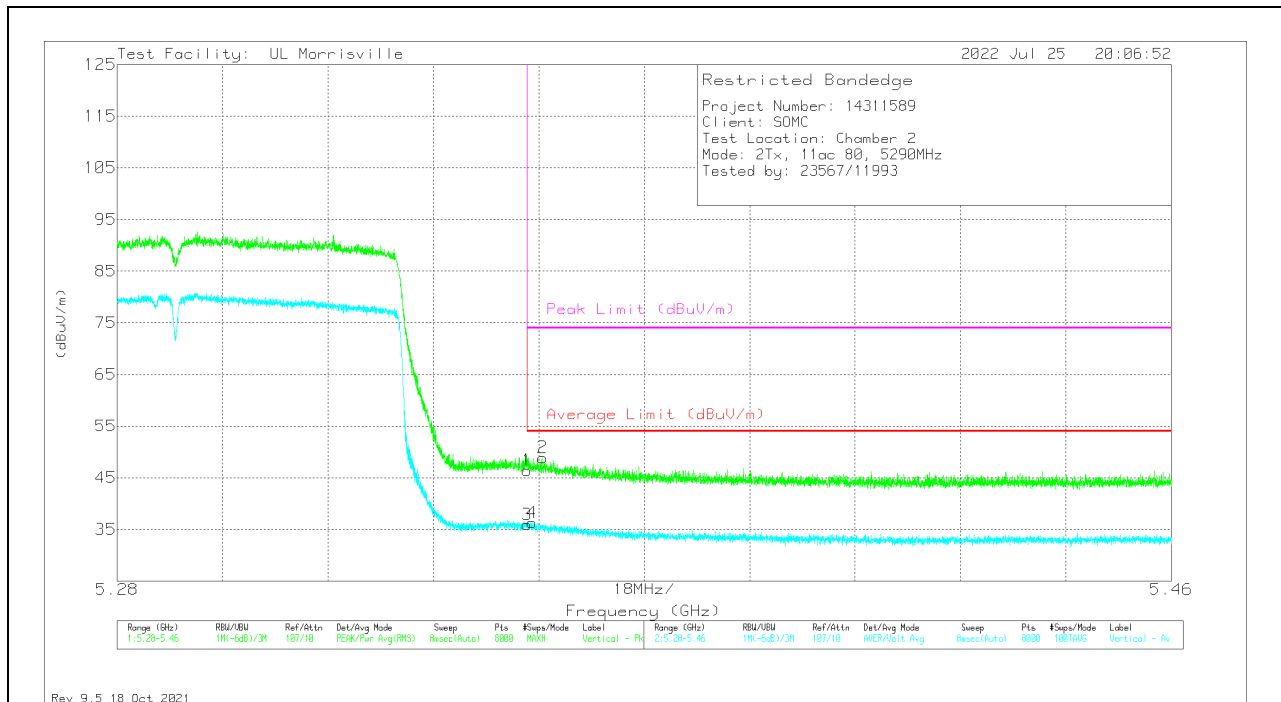
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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
1	*** 5.35001	41.04	Pk	34.6	-22.7	52.94	-	-	74	-21.06	211	141	H
2	** 5.35059	42.88	Pk	34.6	-22.7	54.78	-	-	74	-19.22	211	141	H
3	*** 5.35001	29	ADV	34.6	-22.7	40.9	54	-13.1	-	-	211	141	H
4	** 5.35034	29.67	ADV	34.6	-22.7	41.57	54	-12.43	-	-	211	141	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

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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
1	* ** 5.35001	34.58	Pk	34.6	-22.7	46.48	-	-	74	-27.52	69	132	V
2	* ** 5.35266	37	Pk	34.6	-22.7	48.9	-	-	74	-25.1	69	132	V
3	* ** 5.35001	24.02	ADV	34.6	-22.7	35.92	54	-18.08	-	-	69	132	V
4	* ** 5.35084	24.41	ADV	34.6	-22.7	36.31	54	-17.69	-	-	69	132	V

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

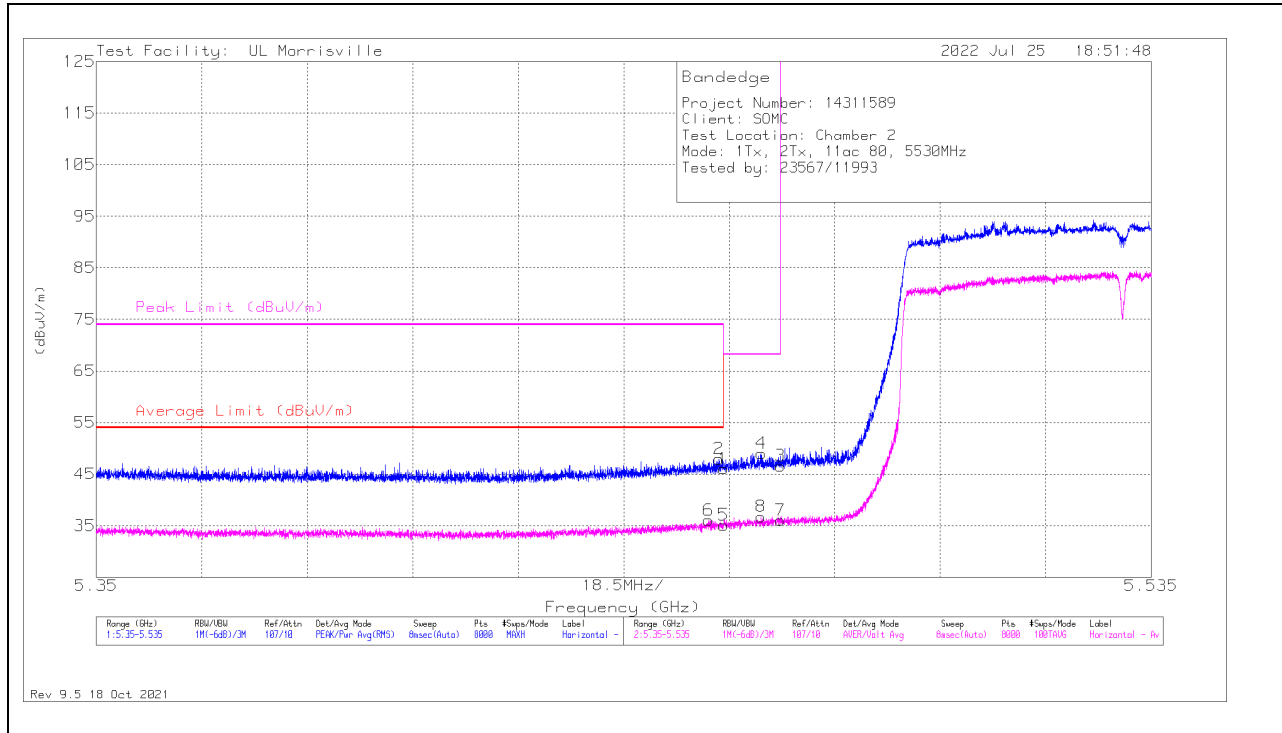
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (5.6 BAND LOW CHANNEL – 2TX, 802.11ac 80MHz)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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
1	* ** 5.46	34.95	Pk	34.4	-23.3	46.05	-	-	74	-27.95	80	102	H
2	* ** 5.45921	36.85	Pk	34.4	-23.3	47.95	-	-	74	-26.05	80	102	H
5	* ** 5.46	24.02	ADV	34.4	-23.3	35.12	54	-18.88	-	-	80	102	H
6	* ** 5.45736	24.94	ADV	34.4	-23.3	36.04	54	-17.96	-	-	80	102	H
8	5.46657	25.84	ADV	34.4	-23.5	36.74	-	-	-	-	80	102	H
4	5.46661	38.12	Pk	34.4	-23.5	49.02	-	-	68.2	-19.18	80	102	H
3	5.46999	35.79	Pk	34.4	-23.6	46.59	-	-	68.2	-21.61	80	102	H
7	5.46999	25.26	ADV	34.4	-23.6	36.06	-	-	-	-	80	102	H

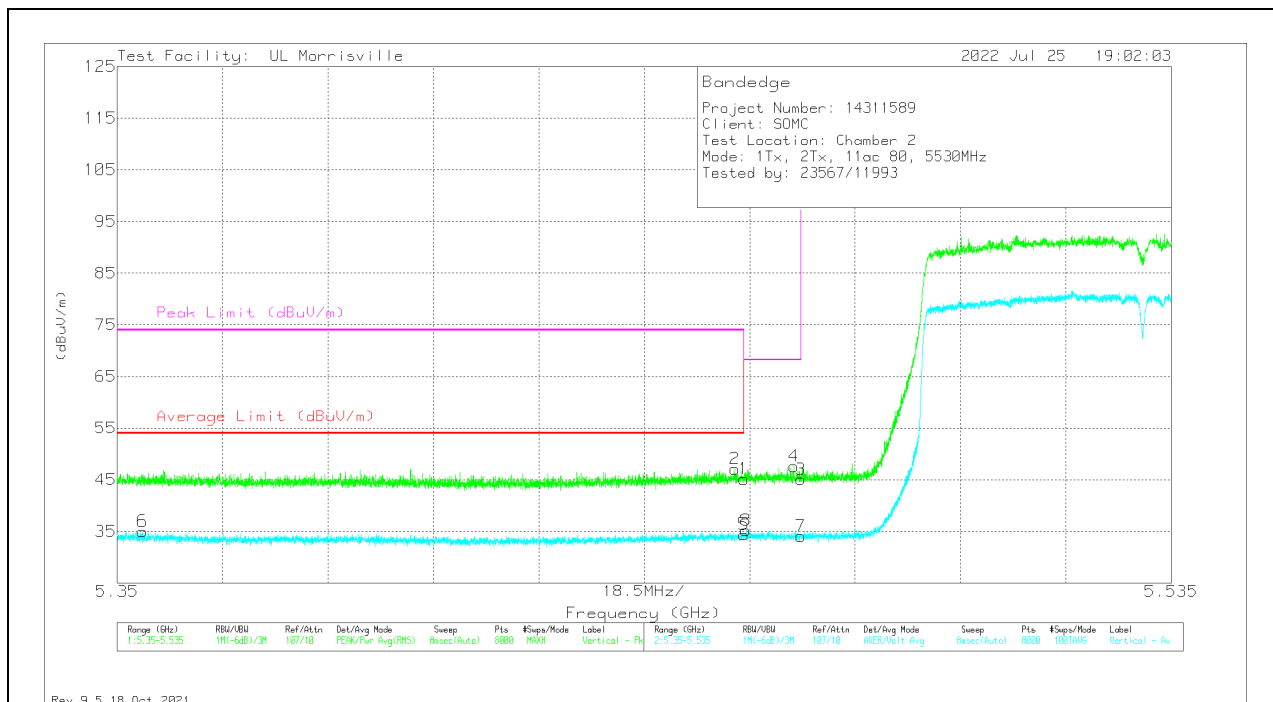
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (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
1	* ** 5.46	34.07	Pk	34.4	-23.3	45.17	-	-	74	-28.83	47	107	V
2	* ** 5.4584	36.01	Pk	34.4	-23.3	47.11	-	-	74	-26.89	47	107	V
5	* ** 5.46	23.3	ADV	34.4	-23.3	34.4	54	-19.6	-	-	47	107	V
6	* ** 5.35444	23.2	ADV	34.6	-22.8	35	54	-19	-	-	47	107	V
8	5.46034	24.21	ADV	34.4	-23.4	35.21	-	-	-	-	47	107	V
4	5.46879	36.79	Pk	34.4	-23.6	47.59	-	-	68.2	-20.61	47	107	V
3	5.46999	34.25	Pk	34.4	-23.6	45.05	-	-	68.2	-23.15	47	107	V
7	5.46999	23.28	ADV	34.4	-23.6	34.08	-	-	-	-	47	107	V

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

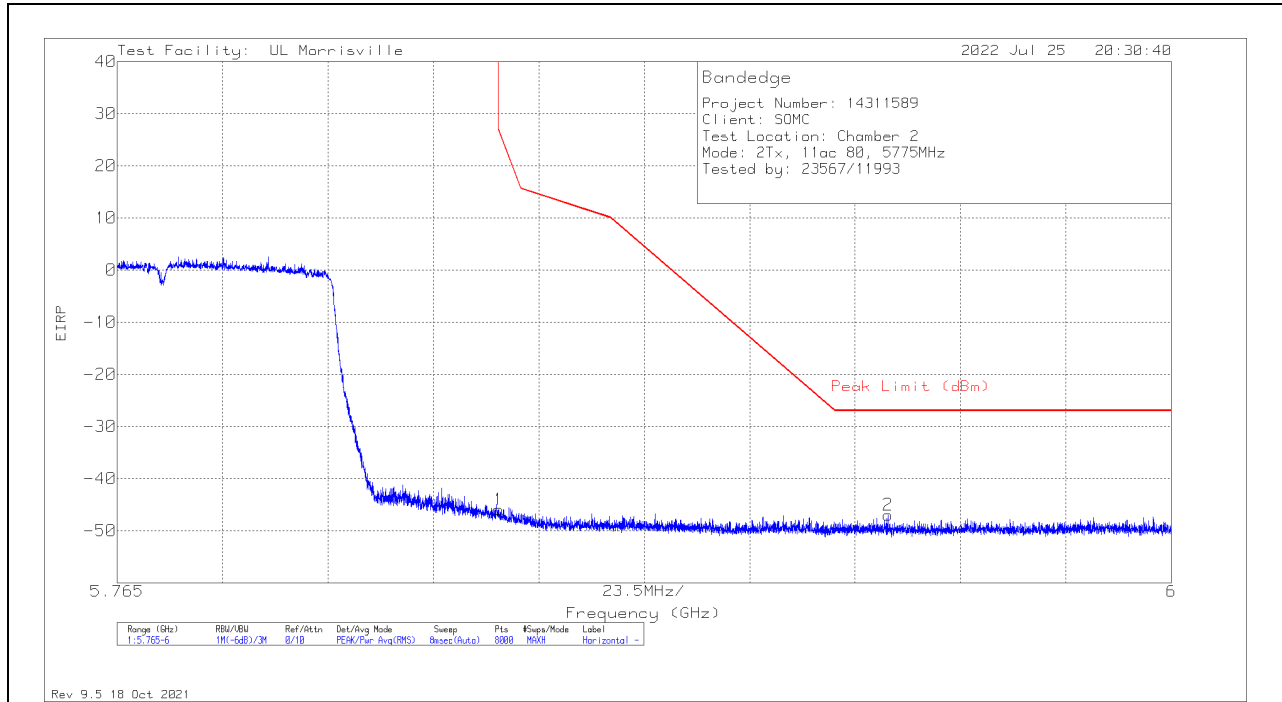
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (5.8 BAND HIGH CHANNEL – 2TX, 802.11ac 80 MHz)

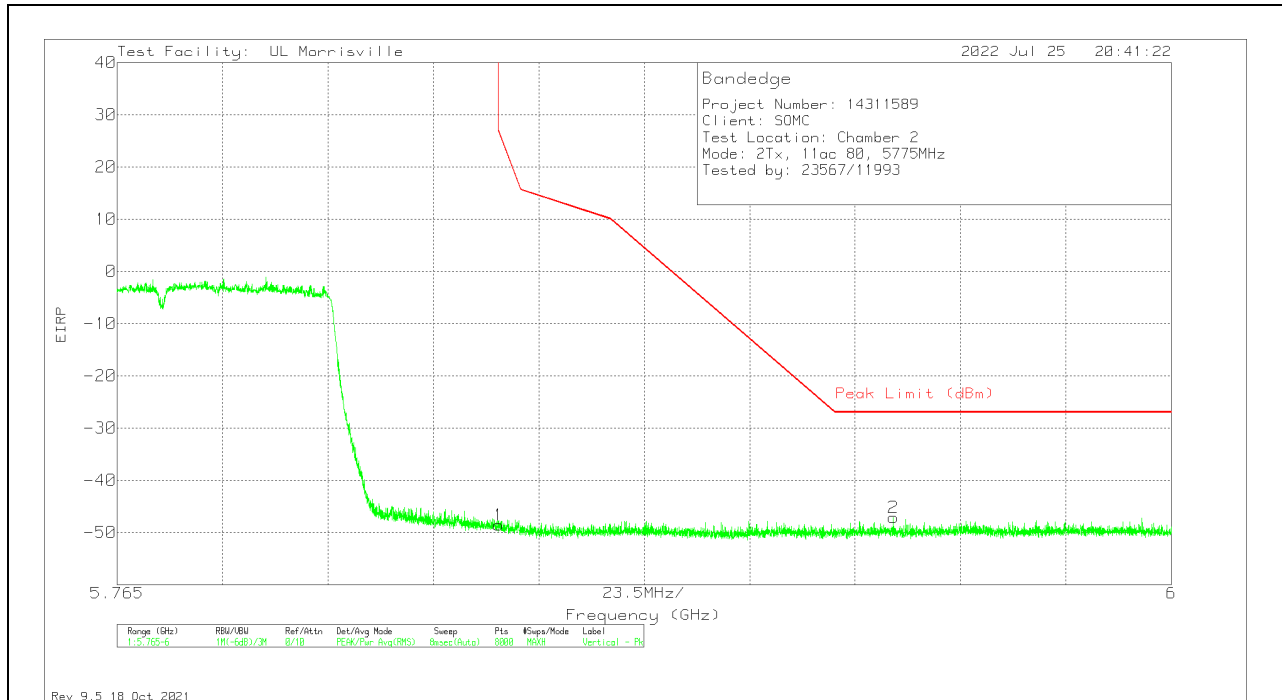
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-69.72	Pk	34.9	-22.9	11.8	-45.92	26.95	-72.87	73	110	H
2	5.93687	-71.08	Pk	35.1	-22.8	11.8	-46.98	-27	-19.98	73	110	H

Pk - Peak detector

VERTICAL RESULT

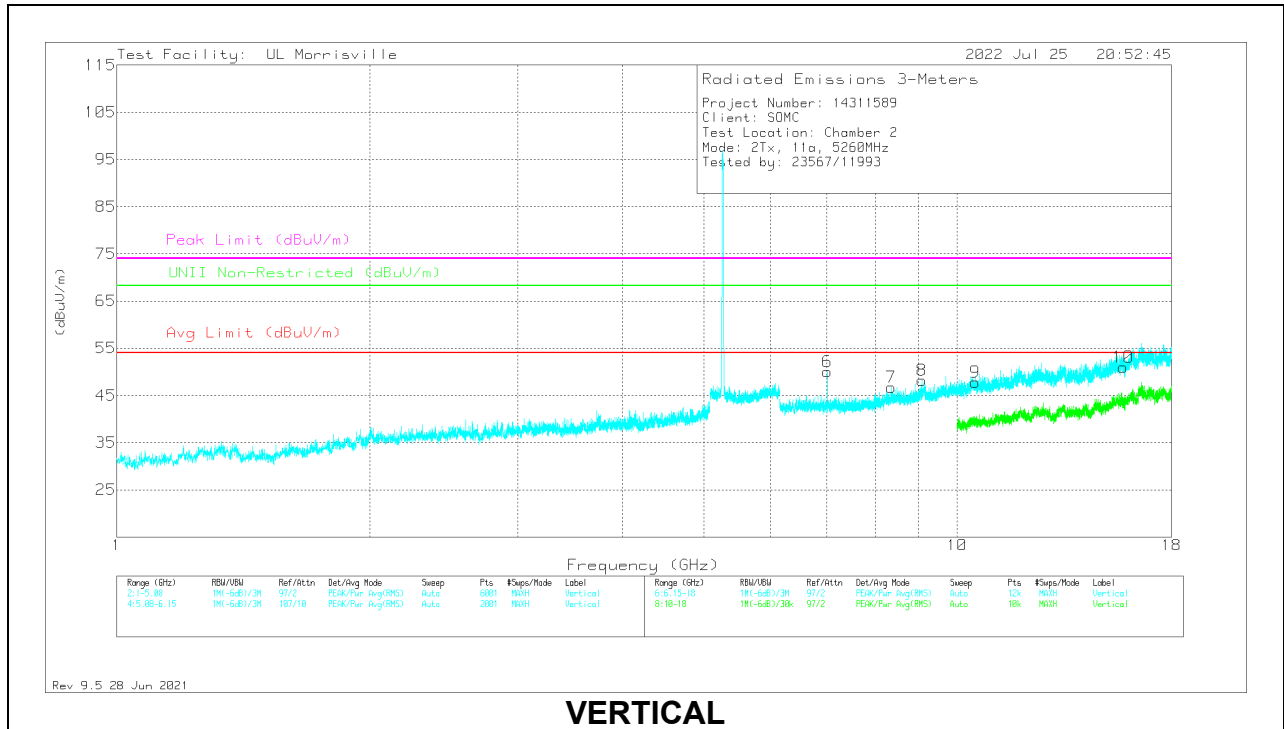
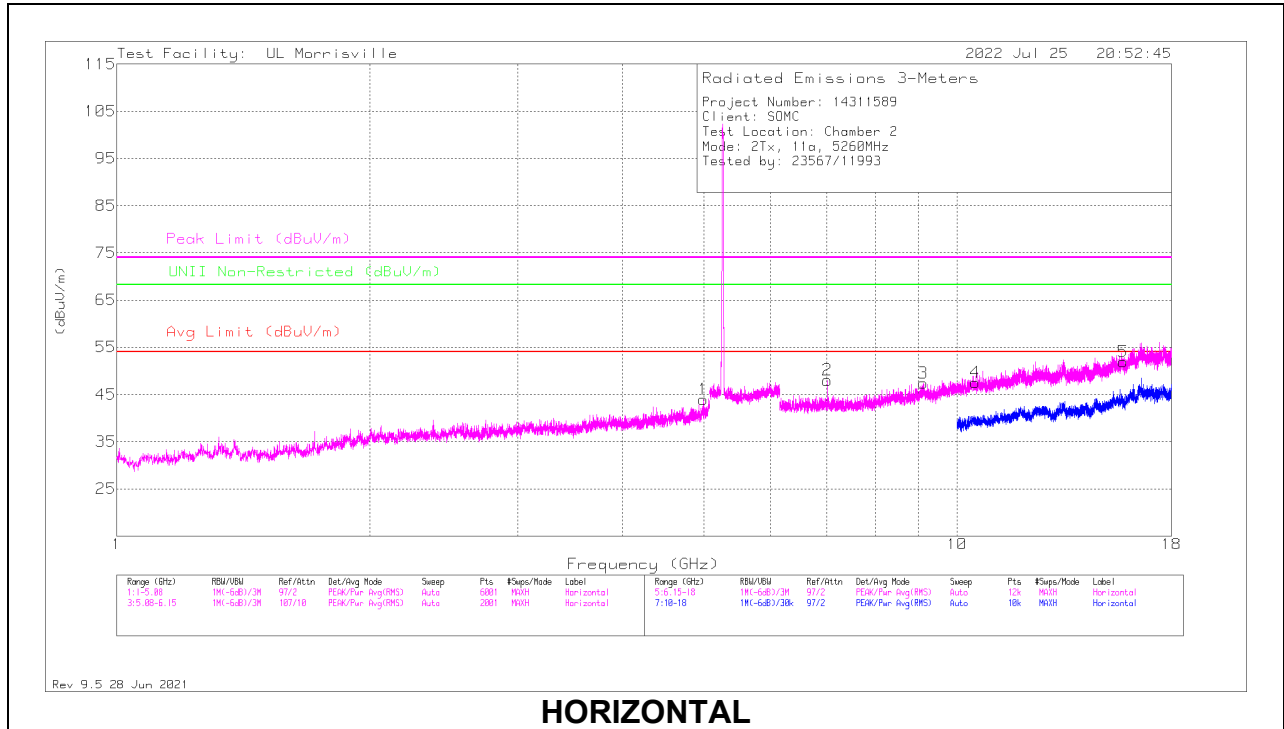


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading EIRP (dBm)	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-72.39	Pk	34.9	-22.9	11.8	-48.59	26.95	-75.54	252	318	V
2	5.93804	-71.24	Pk	35.1	-22.8	11.8	-47.14	-27	-20.14	252	318	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

5.3 BAND LOW CHANNEL 2TX, 802.11a 6Mbps



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.99364	39.33	Pk	34	-29.4	43.93	54	-10.07	74	-30.07	-	-	0-360	199	H
3	*** 9.12139	37.15	Pk	36.2	-26	47.35	54	-6.65	74	-26.65	-	-	0-360	101	H
5	*** 15.7792	36.16	PK-U	40.5	-23	53.66	-	-	74	-20.34	-	-	8	297	H
	*** 15.78158	23.46	ADV	40.5	-22.9	41.06	54	-12.94	-	-	-	-	8	297	H
7	*** 8.35015	37.67	Pk	35.8	-26.7	46.77	54	-7.23	74	-27.23	-	-	0-360	200	V
8	*** 9.08686	38.44	PK-U	36.1	-26	48.54	-	-	74	-25.46	-	-	57	124	V
	*** 9.08872	25.72	ADV	36.1	-26	35.82	54	-18.18	-	-	-	-	57	124	V
10	*** 15.77797	36.05	PK-U	40.5	-23	53.55	-	-	74	-20.45	-	-	184	202	V
	*** 15.7793	23.53	ADV	40.5	-23	41.03	54	-12.97	-	-	-	-	184	202	V
2	7.01324	43.15	PK-U	35.6	-27.9	50.85	-	-	-	-	68.2	-17.35	99	107	H
6	7.01338	44.8	PK-U	35.6	-27.9	52.5	-	-	-	-	68.2	-15.7	333	102	V
4	10.52019	36.65	PK-U	37.5	-24.8	49.35	-	-	-	-	68.2	-18.85	66	231	H
	10.5192	24.37	ADV	37.5	-24.9	36.97	-	-	-	-	-	-	66	231	H
9	10.52038	38.29	PK-U	37.5	-24.8	50.99	-	-	-	-	68.2	-17.21	86	109	V
	10.52057	25.46	ADV	37.5	-24.8	38.16	-	-	-	-	-	-	86	109	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

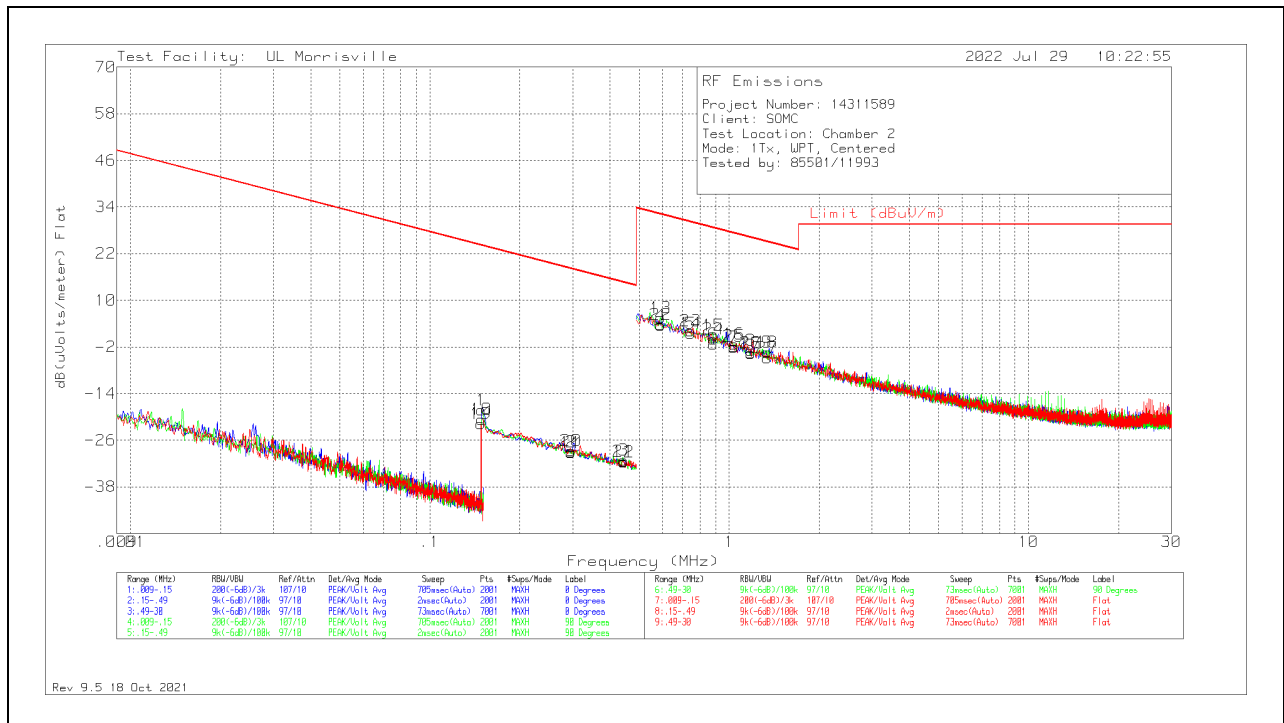
ADV - Linear Voltage Average

10.5. WPT

Note: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \text{Log}(\text{test distance} / \text{specification distance})$.

HARMONICS AND SPURIOUS EMISSIONS – CONFIG 1

0.009 to 30MHz



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dbuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
19	.14795	47.95	Av	11.2	.1	-80	-20.75	24.2	44.2	-44.95	236	Flat
1	.14782	48.81	Av	11.2	.1	-80	-19.89	24.21	44.21	-44.1	52	0 degs
10	.14784	48.14	Av	11.2	.1	-80	-20.56	24.21	44.21	-44.77	314	90 degs
20	.2962	40.04	Pk	11.2	.1	-80	-28.66	18.17	38.17	-46.83	0-360	Flat
2	.29637	39.69	Pk	11.2	.1	-80	-29.01	18.17	38.17	-47.18	0-360	0 degs
11	.29637	39.48	Pk	11.2	.1	-80	-29.22	18.17	28.17	-47.39	0-360	90 degs
3	.4441	37.65	Pk	11.2	.1	-80	-31.05	14.65	34.65	-45.7	0-360	0 degs
12	.4441	37.04	Pk	11.2	.1	-80	-31.66	14.65	34.65	-46.31	0-360	90 degs
21	.4441	37.2	Pk	11.2	.1	-80	-31.5	14.65	34.65	-46.15	0-360	Flat
4	.59118	32.22	Pk	11.2	.2	-40	3.62	32.17	-	-28.55	0-360	0 degs
13	.59118	34.11	Pk	11.2	.2	-40	5.51	32.17	-	-26.66	0-360	90 degs
22	.59118	32.33	Pk	11.2	.2	-40	3.73	32.17	-	-28.44	0-360	Flat
5	.74296	29.92	Pk	11.3	.2	-40	1.42	30.18	-	-28.76	0-360	0 degs
14	.74296	29.97	Pk	11.3	.2	-40	1.47	30.18	-	-28.71	0-360	90 degs
23	.74296	30.64	Pk	11.3	.2	-40	2.14	30.18	-	-28.04	0-360	Flat
6	.8863	27.23	Pk	11.3	.2	-40	-1.27	28.65	-	-29.92	0-360	0 degs
15	.8863	29.41	Pk	11.3	.2	-40	.91	28.65	-	-27.74	0-360	90 degs
24	.8863	28.57	Pk	11.3	.2	-40	.07	28.65	-	-28.58	0-360	Flat
7	1.03808	26.37	Pk	11.3	.2	-40	-2.13	27.28	-	-29.41	0-360	0 degs
16	1.03808	27.28	Pk	11.3	.2	-40	-1.22	27.28	-	-28.5	0-360	90 degs
25	1.03808	26.66	Pk	11.3	.2	-40	-1.84	27.28	-	-29.12	0-360	Flat
8	1.18142	25.59	Pk	11.3	.2	-40	-2.91	26.16	-	-29.07	0-360	0 degs
17	1.18142	24.8	Pk	11.3	.2	-40	-3.7	26.16	-	-29.86	0-360	90 degs
26	1.18142	24.99	Pk	11.3	.2	-40	-3.51	26.16	-	-29.67	0-360	Flat
9	1.33742	25.13	Pk	11.3	.2	-40	-3.37	25.08	-	-28.45	0-360	0 degs
18	1.33742	25.18	Pk	11.3	.2	-40	-3.32	25.08	-	-28.4	0-360	90 degs
27	1.33742	23.63	Pk	11.3	.2	-40	-4.87	25.08	-	-29.95	0-360	Flat

Pk - Peak detector
 Av - Average detection

11. SETUP PHOTOS

Refer to R14311589-EP2 for setup photos.

END OF REPORT