



FCC RADIO TEST REPORT

FCC ID : UZ7FXR9001
Equipment : Industrial Fixed RFID Reader
Brand Name : ZEBRA
Model Name : FXR9001
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC Part 15 Subpart E §15.407

The product was received on Aug. 16, 2023 and testing was performed from Sep. 14, 2023 to Nov. 01, 2023. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR381616F	01	Initial issue of report	Nov. 23, 2023

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	6.34 dB under the limit at 30.00 MHz
3.5	15.207	AC Conducted Emission	Pass	28.43 dB under the limit at 0.41 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Rachel Hsieh



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Industrial Fixed RFID Reader
Brand Name	ZEBRA
Model Name	FXR9001
FCC ID	UZ7FXR9001
Sample 1	FXR90011-400000-WR 4+1 Port & Bolt-on: BT, WLAN
Sample 2	FXR90010-800000-WR 8-Port: BT, WLAN
Sample 3	FXR90010-400000-WR 4-Port: BT, WLAN
EUT supports Radios application	RFID WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 WLAN 11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE
HW Version	EV2
SW Version	0.4.11
MFD	01AUG23
EUT Stage	Identical Prototype

Remark: The EUT's information above is declared by manufacturer.

Supported Unit Used in Test Configuration and System				
Cable, 3-way USB Splitter	Brand Name	ZEBRA	Model Name	ADP-USB0010-M12
Cable, USB-C Host, 5ft.	Brand Name	ZEBRA	Model Name	CBL-USBCHST015-M12
Cable, USB-C Host, 15ft.	Brand Name	ZEBRA	Model Name	CBL-USBCHST035-M12
Cable, USB-C Client, 5ft.	Brand Name	ZEBRA	Model Name	CBL-USBCCLT015-M12
Cable, USB-C Client, 15ft.	Brand Name	ZEBRA	Model Name	CBL-USBCCLT035-M12
Cable, USB-A Client, 5ft.	Brand Name	ZEBRA	Model Name	CBL-USBACLT015-M12
Cable, USB-A Client, 15ft.	Brand Name	ZEBRA	Model Name	CBL-USBACLT035-M12
Cable, GPIO	Brand Name	ZEBRA	Model Name	CBL-GP0050-M12M12A
Cable, 12V (Cigarette Lighter) Power Adapter, 3.5 meter	Brand Name	ZEBRA	Model Name	CBL-PWRD035-M12CL
Cable, DC Power Cord (Flying Leads), 3.5m	Brand Name	ZEBRA	Model Name	CBL-PWRD035-M1200
Cable, DC Power Cord (Flying Leads), 10m	Brand Name	ZEBRA	Model Name	CBL-PWRD100-M1200
Cable, Power Supply Output Adapter, 3.5m	Brand Name	ZEBRA	Model Name	CBL-PWRD035-M12M12
Cable, Power Supply Output Adapter, 10m	Brand Name	ZEBRA	Model Name	CBL-PWRD100-M12M12



Supported Unit Used in Test Configuration and System				
Cable, DC-DC Power Supply Input	Brand Name	ZEBRA	Model Name	CBL-PWRD150-M12M00
Cable, AC-DC Power Supply Input (Flying Leads)	Brand Name	ZEBRA	Model Name	CBL-PWRA150-M1200
Cable, AC-DC Power Supply Input (IEC plug)	Brand Name	ZEBRA	Model Name	CBL-PWRA035-M12IEC
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 68", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-3B4000680R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 180", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-3B4001800R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 240", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-3B4002400R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 360", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-3B4003600R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 68", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-1B4000680R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 180", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-1B4001800R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 240", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-1B4002400R
CBL: RF, N STR PLUG TO RP-TNC STR PLUG ON LMR-240, 360", IP67 Sealed	Brand Name	ZEBRA	Model Name	CBLRD-1B4003600R
CHIMERA ETHERNET CABLE 5M	Brand Name	ZEBRA	Model Name	CBL-ENT00500-M1200
CHIMERA ETHERNET CABLE 15M	Brand Name	ZEBRA	Model Name	CBL-ENT01500-M1200
Outdoor AC-DC PSU	Brand Name	ZEBRA	Model Name	PWR-BGA24V90W0WW (Spec PD-007875-01)
Forklift DC-DC PSU	Brand Name	ZEBRA	Model Name	PWR-BGA24V90W1WW (Spec PD-007876-01)
Indoor AC-DC PSU	Brand Name	ZEBRA	Model Name	PWR-BGA24V78W3WW (Spec PD-007877-01)
PoE adaptor	Brand Name	ZEBRA	Model Name	PD-9001GR/AT/AC

Supported Unit Used in Test Configuration and System				
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN480
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN650
External RFID Antenna	Brand Name	ZEBRA	Model Name	SR5502
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN510
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN520
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN610
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN620
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN720
External RFID Antenna	Brand Name	ZEBRA	Model Name	AN440
External RFID Antenna	Brand Name	ZEBRA	Model Name	SP5504
BT/WLAN_ External Antenna	Brand Name	Amphenol	Model Name	ST0228-30-502-A
BT/WLAN_ External Antenna	Brand Name	Amphenol	Model Name	ZB511A-02-001-C
AN650 Antenna cable(5ft/1524mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4000600R
AN650 Antenna cable(20ft/6096mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4002400R
AN650 Antenna cable(15ft/4572mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4001800R
AN650 Antenna cable(30ft/9144mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4003600R
AN650 Antenna cable(10ft/3048mm)	Brand Name	ZEBRA	Model Name	CBLRD-1C4001200R

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	<Internal Antenna (Right)> 802.11a: 14.80 dBm / 0.0302 W <Internal Antenna (Left)> 802.11a: 14.60 dBm / 0.0288 W MIMO <Internal Antenna (Right) + Internal Antenna (Left)> 802.11n HT20: 15.80 dBm / 0.0380 W 802.11n HT40: 15.03 dBm / 0.0318 W 802.11ac VHT20: 15.80 dBm / 0.0380 W 802.11ac VHT40: 15.03 dBm / 0.0318 W 802.11ac VHT80: 11.10 dBm / 0.0129 W 802.11ax HE20: 15.90 dBm / 0.0389 W 802.11ax HE40: 15.13 dBm / 0.0326 W 802.11ax HE80: 11.20 dBm / 0.0132 W

Product Specification is subject to this standard			
99% Occupied Bandwidth	<Internal Antenna (Right)> 802.11a: 16.73 MHz 802.11ax HE20: 18.83 MHz 802.11ax HE40: 37.76 MHz 802.11ax HE80: 77.68 MHz <Internal Antenna (Left)> 802.11a: 16.73 MHz 802.11ax HE20: 18.78 MHz 802.11ax HE40: 37.76 MHz 802.11ax HE80: 77.80 MHz		
Antenna Type / Gain	<Internal Antenna (Left)> : PIFA Antenna with gain 4.94 dBi <Internal Antenna (Right)> : PIFA Antenna with gain 5.95 dBi <External Antenna 1> : Dipole Antenna with gain 4.15 dBi <External Antenna 2> : Dipole Antenna with gain 4.03 dBi		
Type of Modulation	802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) 802.11ax: OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)		
Antenna Function Description		Internal Antenna (Left)	Internal Antenna (Right)
	802.11 a	V	V
	802.11 n/ac/ax MIMO	V	V
		External Antenna 1	External Antenna 2
	802.11 a	V	V
	802.11 n/ac/ax MIMO	V	V

Remark:

1. MIMO Internal Antenna (Right) + Internal Antenna (Left) Directional Gain is a calculated result from MIMO Internal Antenna (Right) + Internal Antenna (Left). The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Internal Antenna (Right) + Internal Antenna (Left) is a calculated result from sum of the power MIMO Internal Antenna (Right) + Internal Antenna (Left).
3. Power of MIMO External Antenna 1 + External Antenna 2 is a calculated result from sum of the power MIMO External Antenna 1 + External Antenna 2.
4. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log[(10^{G_1 / 20} + 10^{G_2 / 20} + \dots + 10^{G_N / 20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

The directional gain "DG" is calculated as following table.

			DG for	DG for	Power Limit	PSD Limit
	Internal Antenna (Right)	Internal Antenna (Left)	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	5.95	4.94	5.95	8.47	0.00	2.47

Calculation example:

If a device has two antenna, $G_{ANT1} = 5.95$ dBi; $G_{ANT2} = 4.94$ dBi

Directional gain of power measurement = $\max(5.95, 4.94) + 0 = 5.95$ dBi

Directional gain of PSD derived from formula which is

$10 \times \log \{ \{ [10^{(5.95 \text{ dBi} / 20)} + 10^{(4.94 \text{ dBi} / 20)}]^2 \} / 2 \}$

= 8.47 dBi

Power and PSD limit reduction = Composite gain – 6dBi, (min = 0)

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY, 03CH07-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY (TAF Code: 3786)
Remark	The Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory.

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) for Internal Antenna, two Antenna Degree, Ant. Horizontal and Ant. Vertical for External Antenna, and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "[#]" are 802.11ac VHT80 and 802.11ax HE80.

2.2 Test Mode

The power for 802.11n and 802.11ac mode is smaller than 802.11ax mode, so all other conducted and radiated test is covered by 802.11ax mode.

The final test modes include the worst data rates for each modulation shown in the table below.

Single Mode

Modulation	Data Rate
802.11a	6 Mbps

MIMO Mode

Modulation	Data Rate
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE80	MCS0

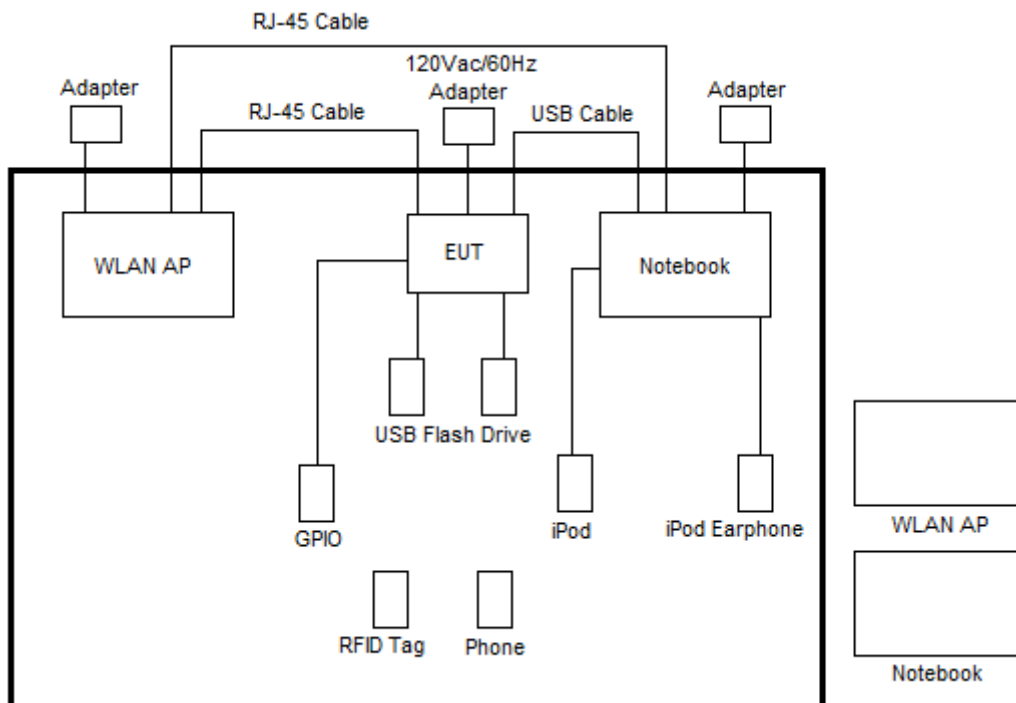
Test Cases	
AC Conducted Emission	Mode 1 : WLAN 5G Link + ADP-USB0010-M12 (3-way USB Splitter) (2) + CBL-GP0050-M12M12A, 5m (GPIO Extension) (7) + PS OUTPUT CABLE + PWR-BGA24V78W3WW (Indoor AC-DC PSU) (30) + BT link + CBL-USBCHST015-M12, 1.5m (3) load with USB dongle + CBL-ENT01500-M1200,15M (27) data link with NB + RFID link + CBL-USBCHST035-M12, 3.5m (23) load with USB dongle + CBL-USBCCLT015-M12, 1.5m (5) load with NB for Sample 1
Remark: - For Radiated Test Cases, the tests were performed with Sample 2. - Data Link with Notebook means data application transferred mode between EUT and Notebook.	

Ch. #		Band IV : 5725-5850 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

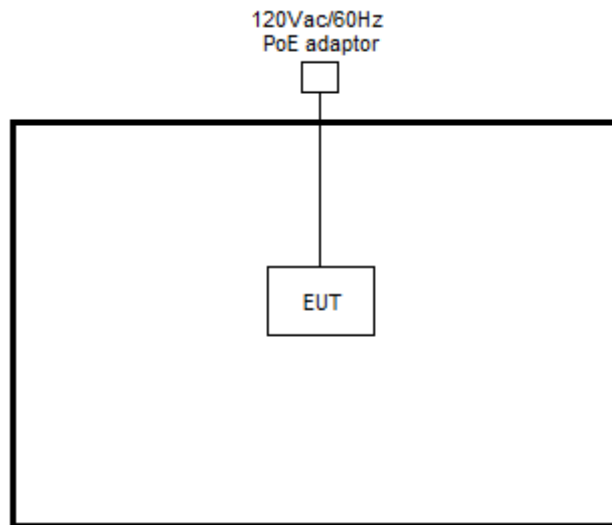
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

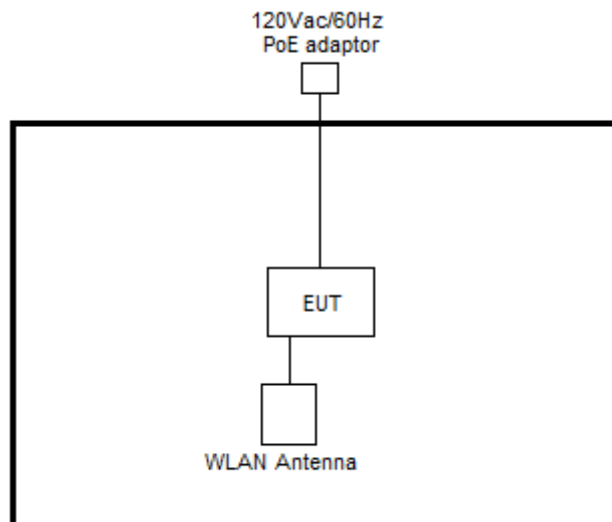
<AC Conducted Emission Mode>



<Radiated Spurious Emission Mode for Internal Antenna>



<Radiated Spurious Emission Mode for External Antenna>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	Dell	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	iPod	Apple	A1285	DoC	Shielded, 1.0m	N/A
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
5.	USB Flash Drive	SanDisk	E8BOC	N/A	N/A	N/A
6.	Phone	ZEBRA	TC26	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “Tera Term Version 4.95” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

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

26dB and 99% Occupied bandwidth are reporting only.

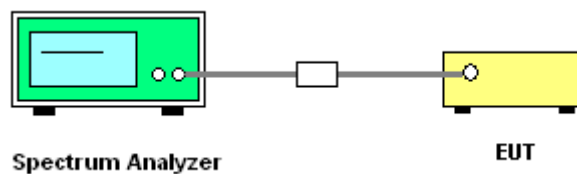
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup



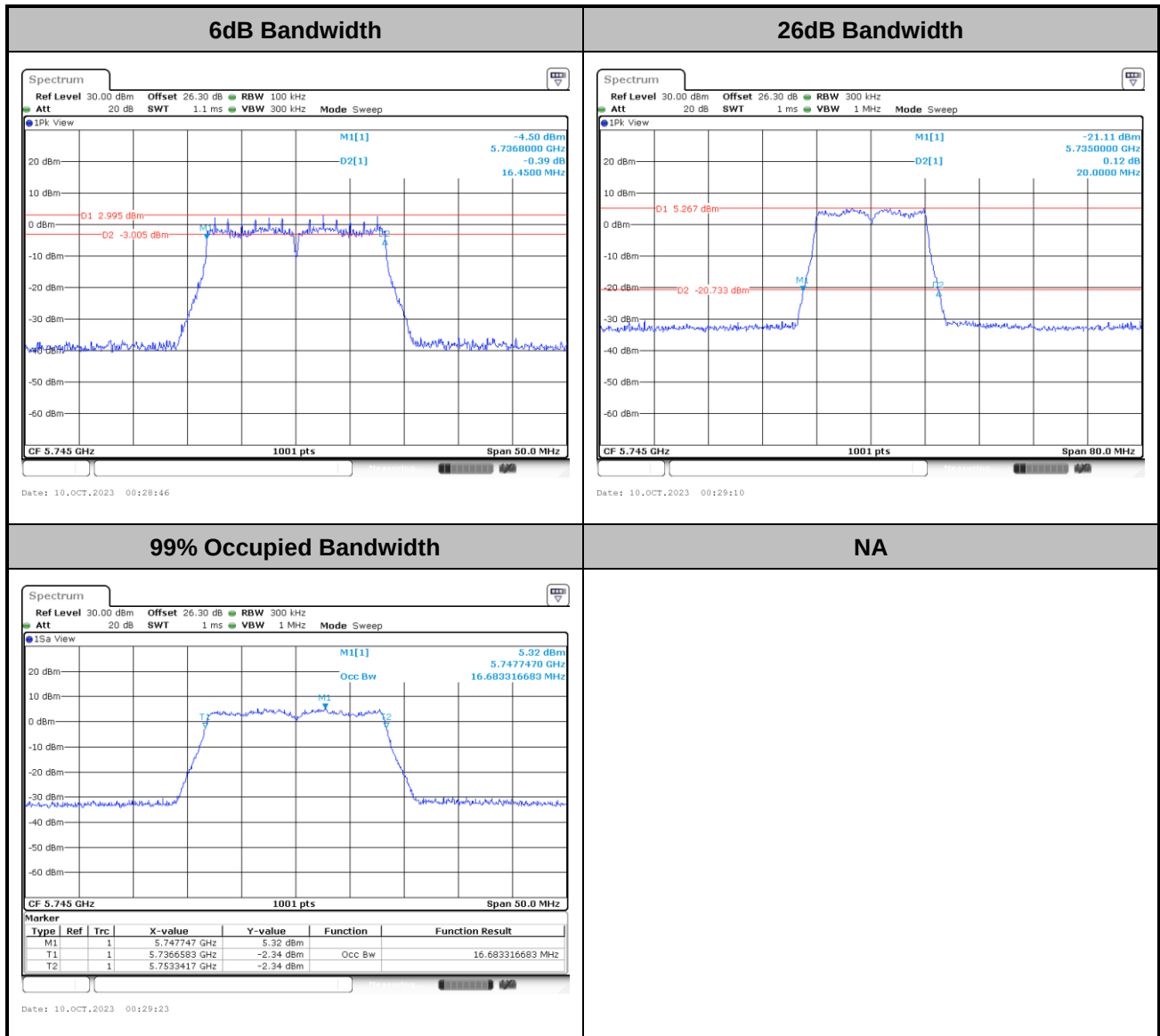
3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.



<Internal Antenna (Right)>

<802.11a>

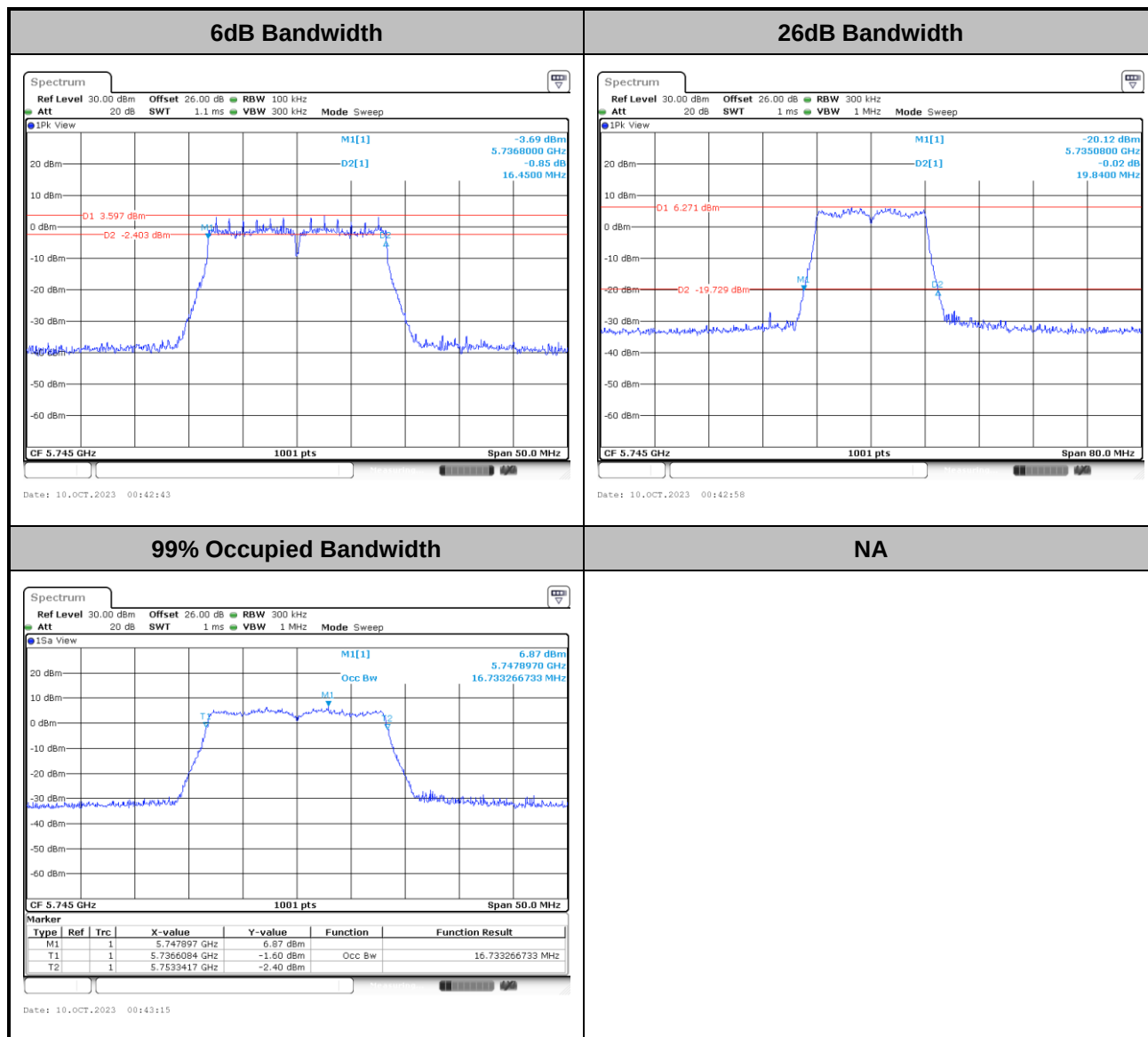


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<Internal Antenna (Left)>

<802.11a>

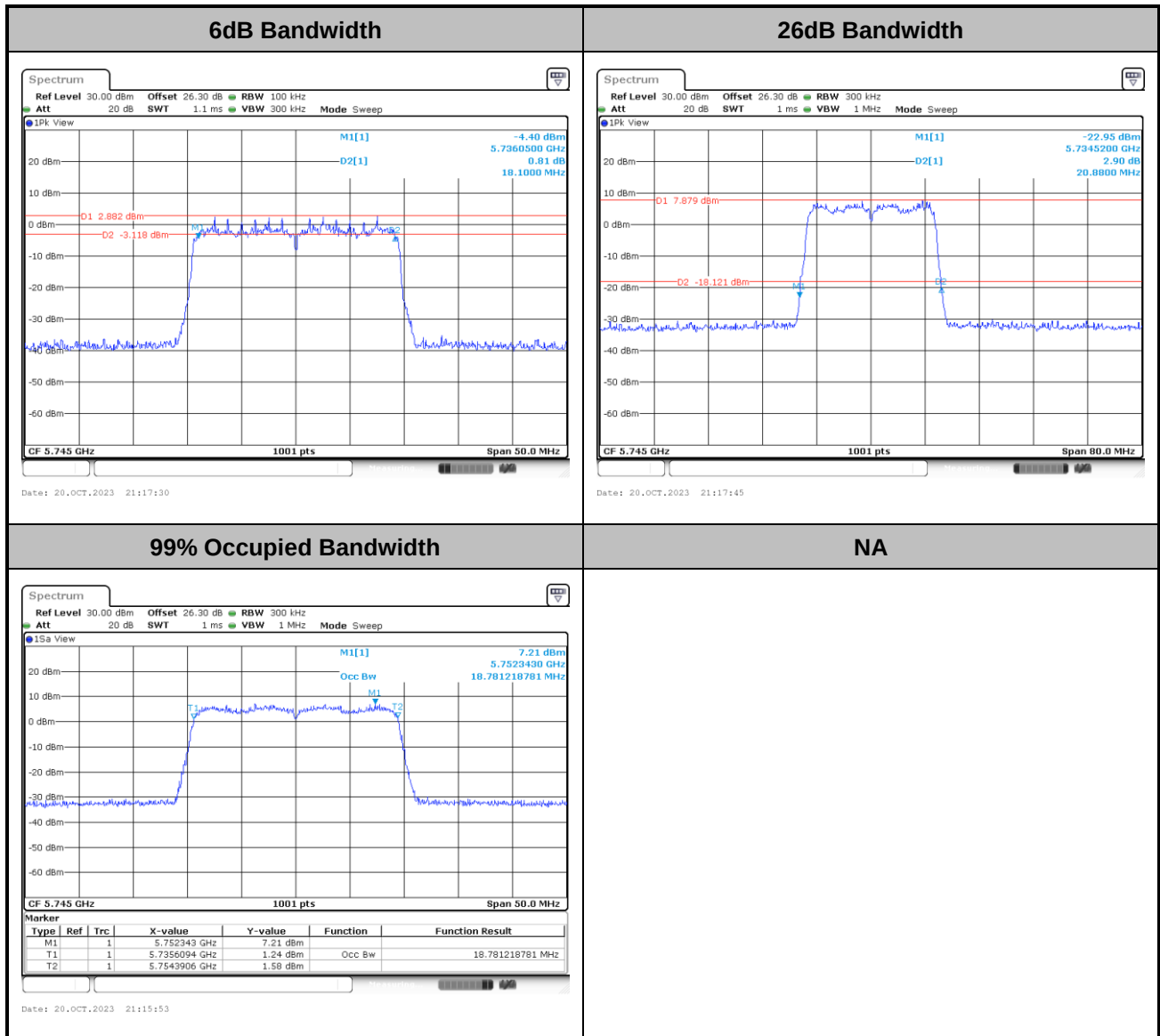


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



MIMO <Internal Antenna (Right) + Internal Antenna (Left)>

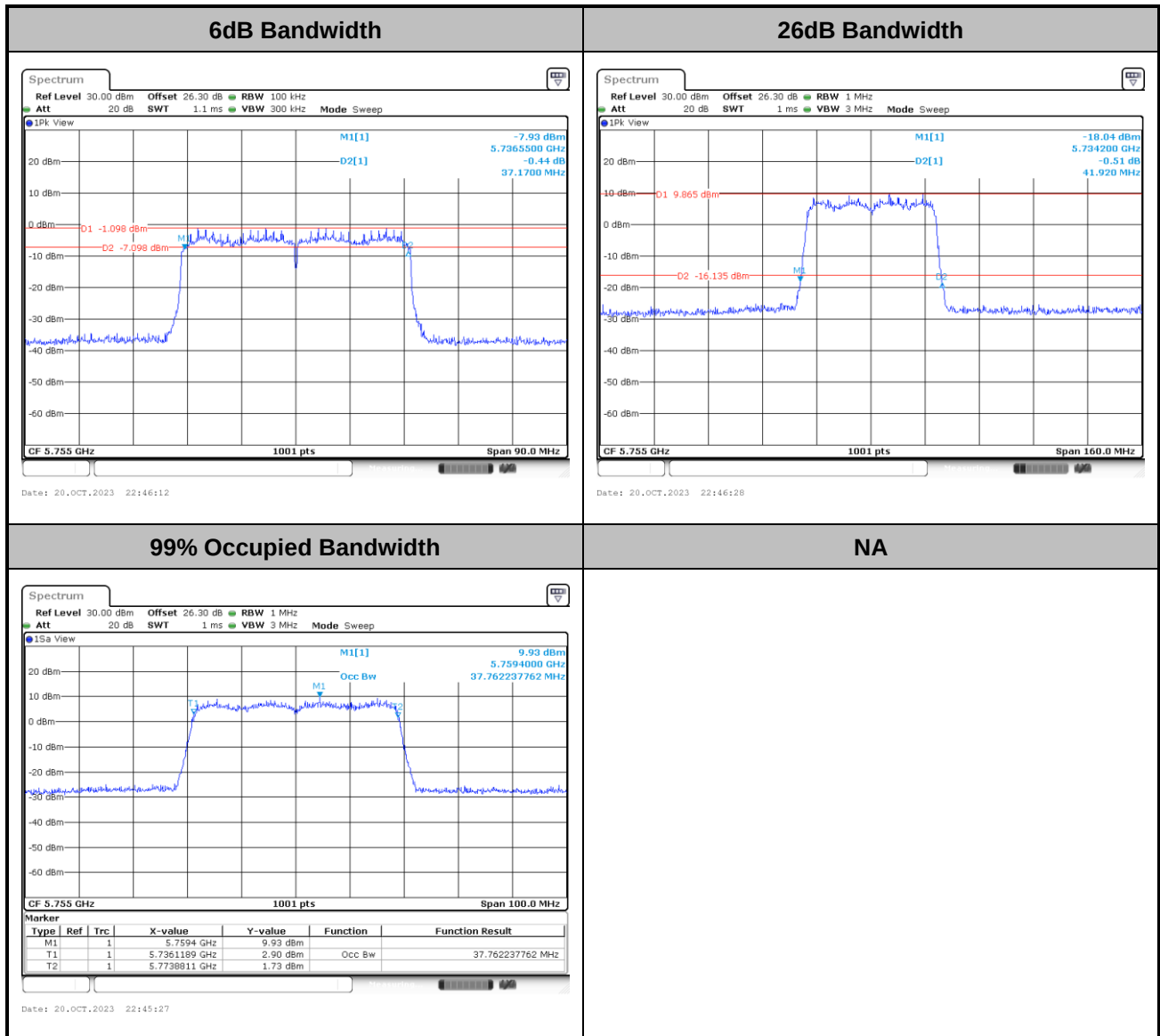
<802.11ax HE20>



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



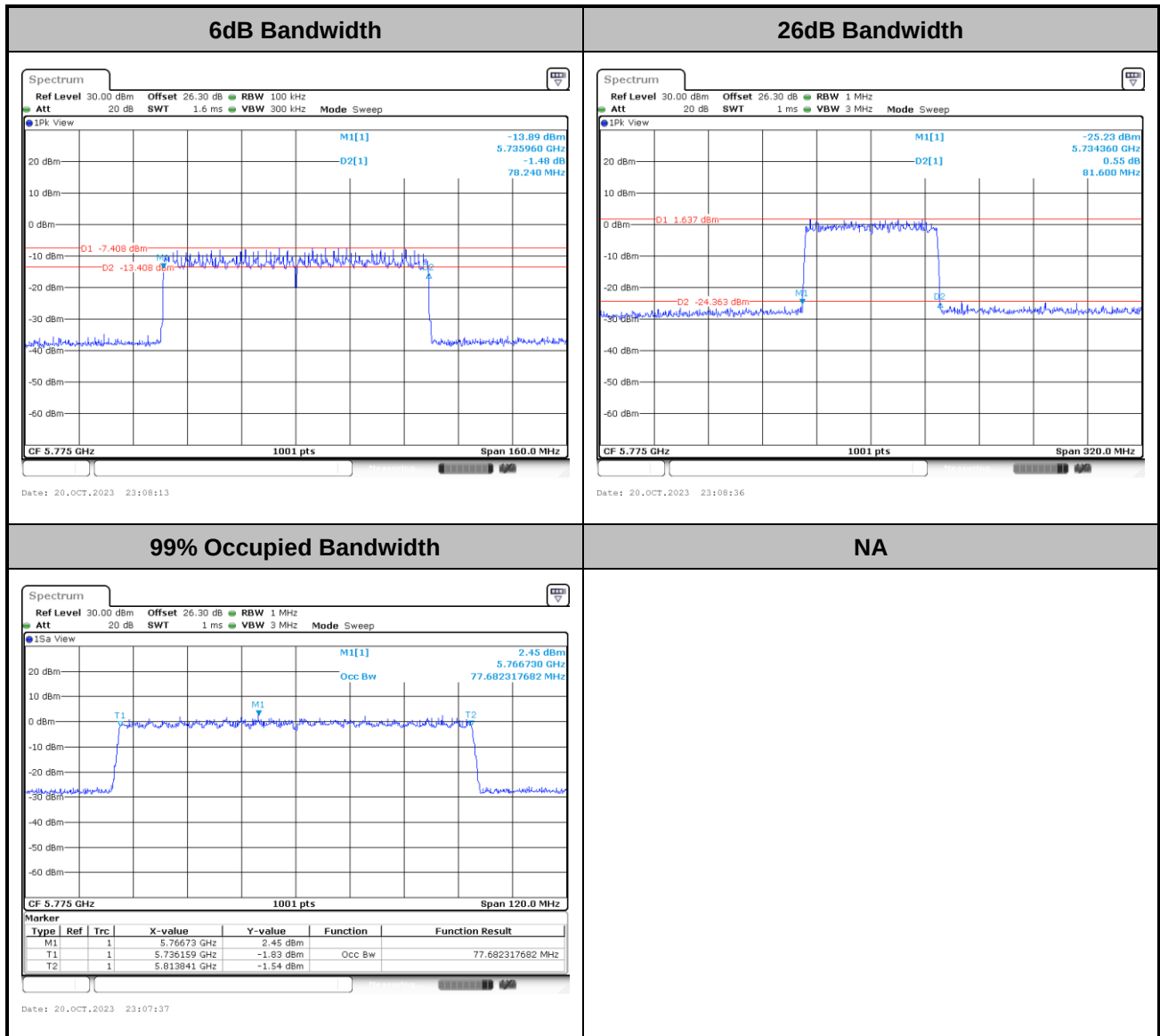
<802.11ax HE40>



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<802.11ax HE80>



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

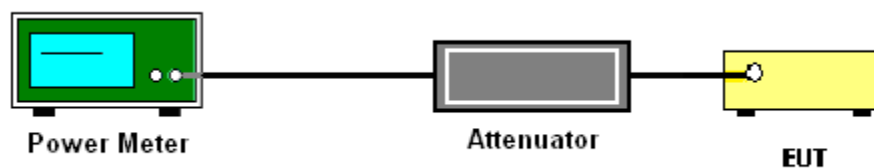
3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

Method SA-2

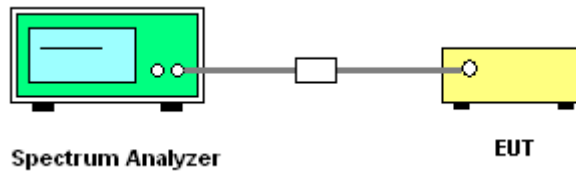
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300kHz.
 - Set VBW $\geq$ 1 MHz.
 - Add $10 \log(500 \text{ kHz}/\text{RBW})$ to the measured result, whereas RBW ($<500 \text{ kHz}$) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
 - Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6 \text{ dB}$ if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

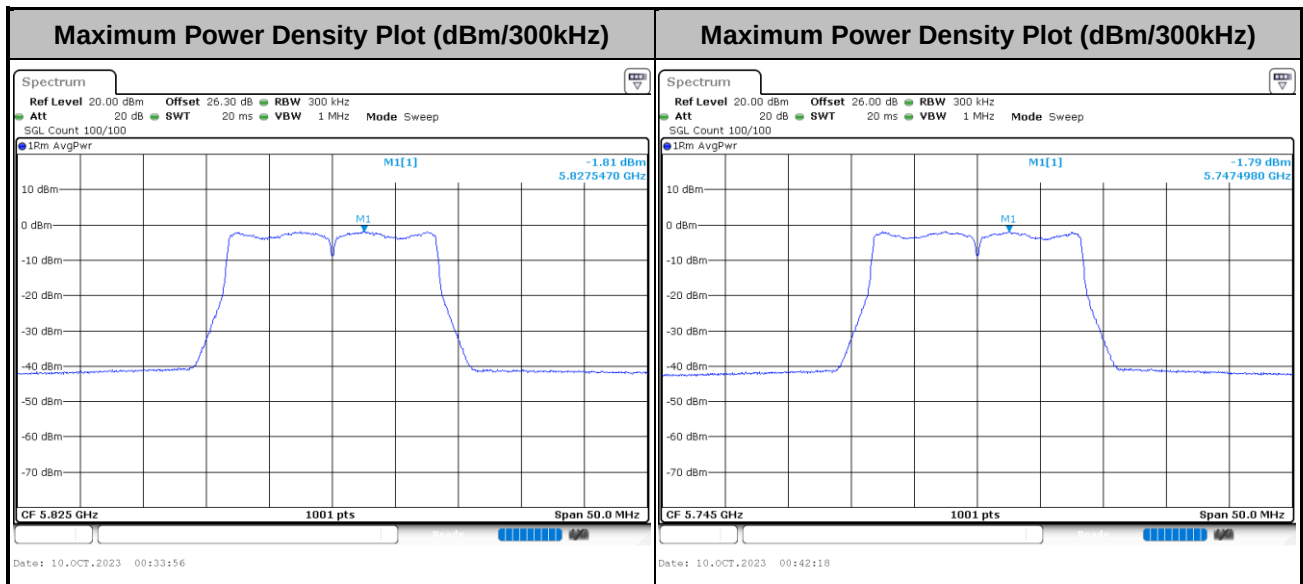
Please refer to Appendix A.

<Internal Antenna (Right)>

<802.11a>

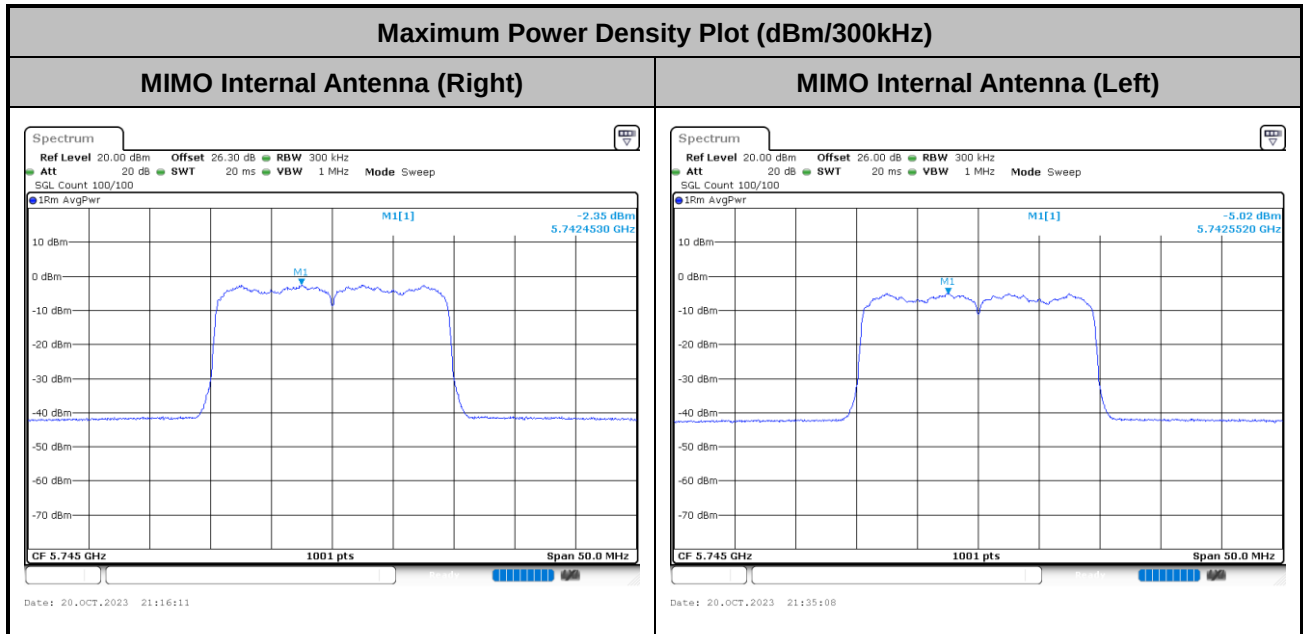
<Internal Antenna (Left)>

<802.11a>

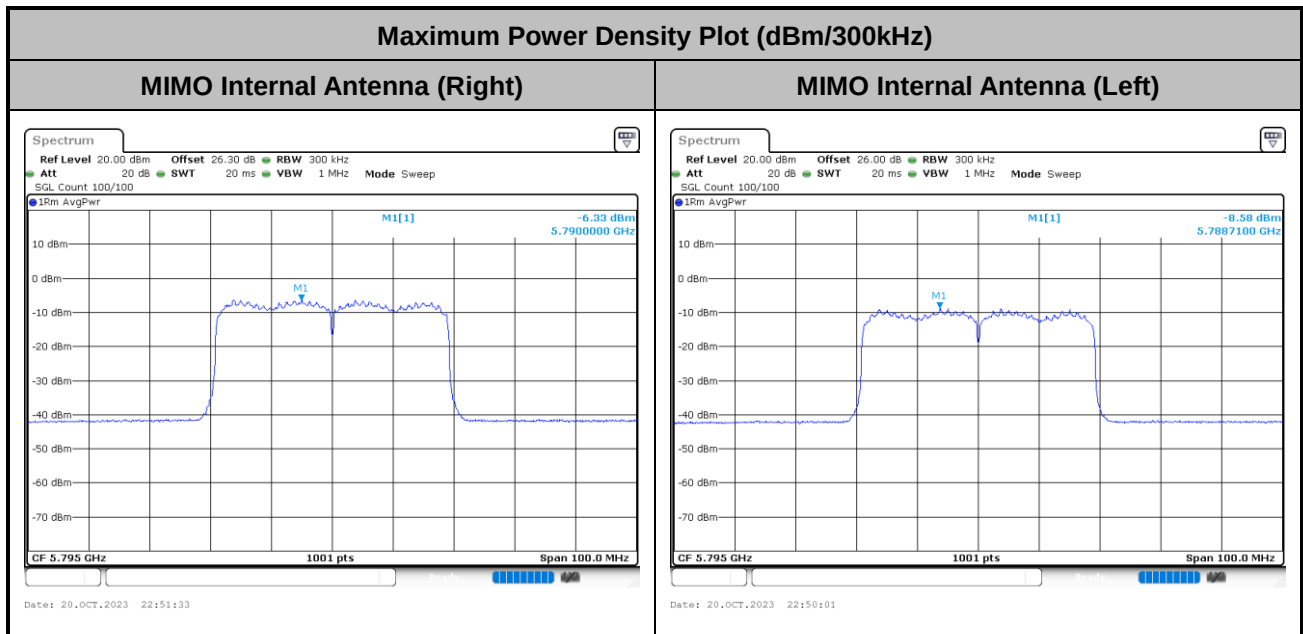




<802.11ax HE20>

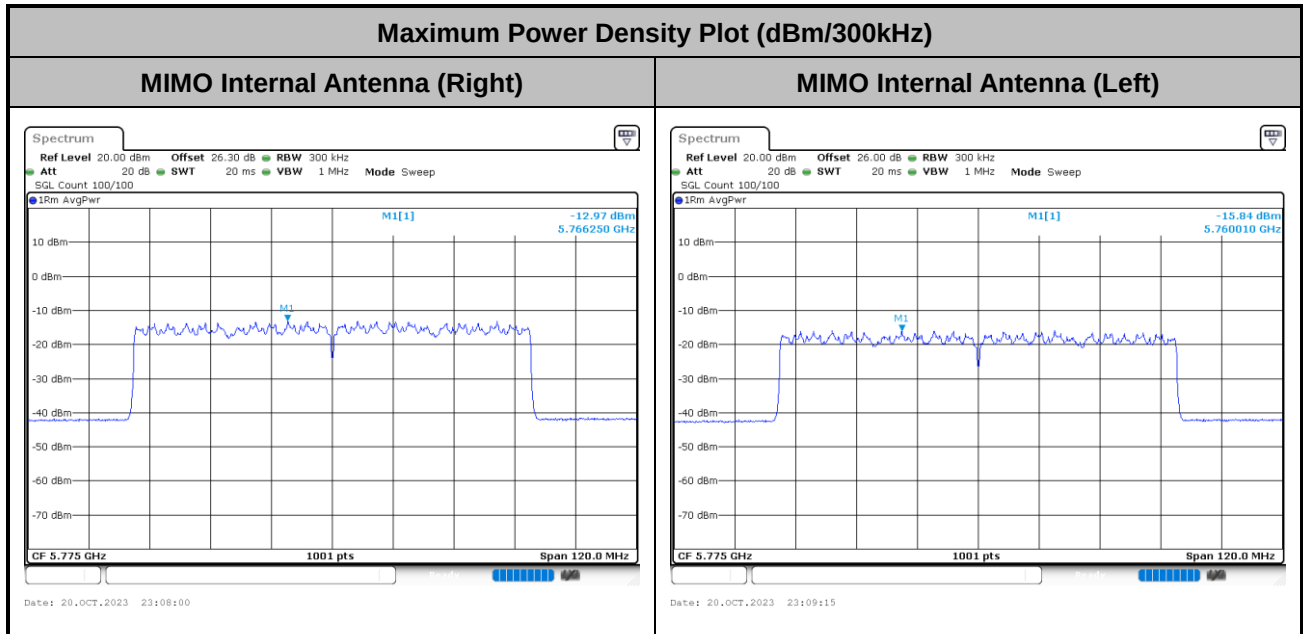


<802.11ax HE40>





<802.11ax HE80>



Note: Average Power Density (dB) = Measured value+ Duty Factor

3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

- (2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

- (3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

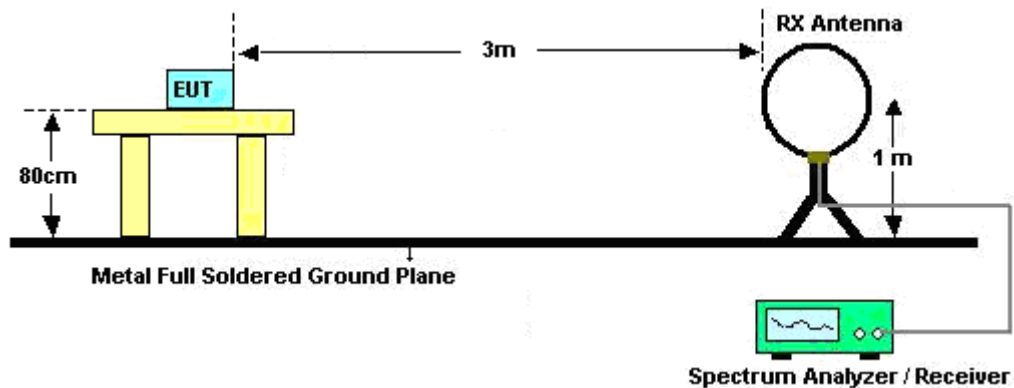
3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.

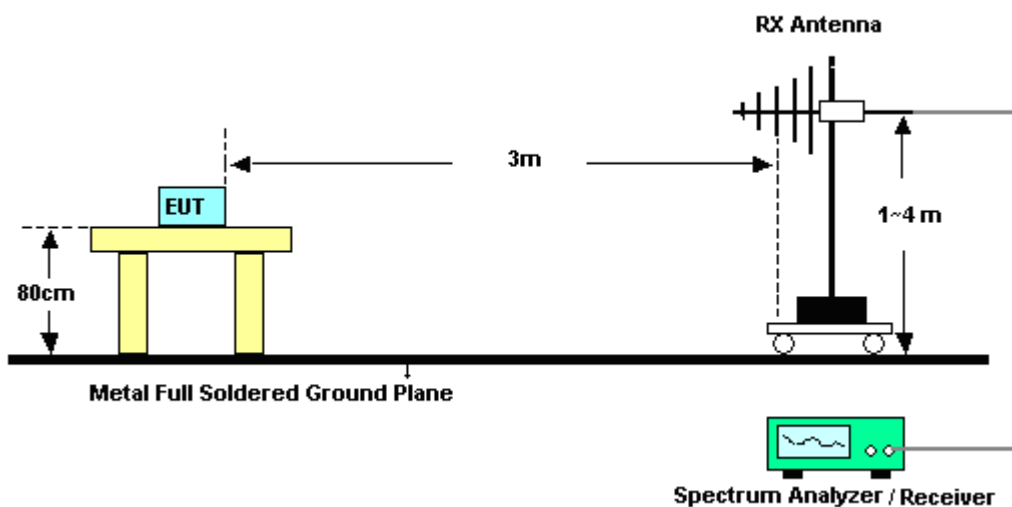
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.4.4 Test Setup

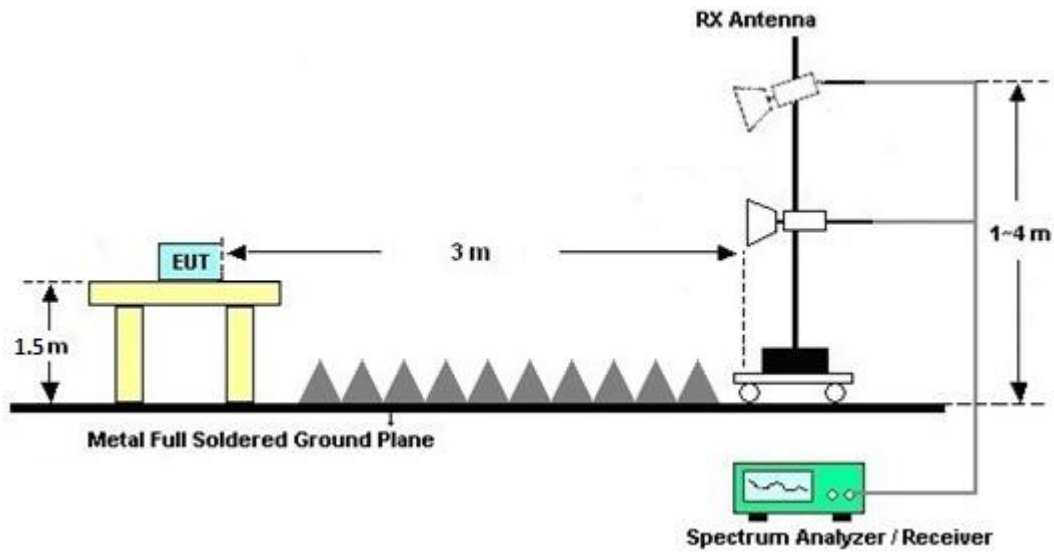
For radiated emissions below 30MHz



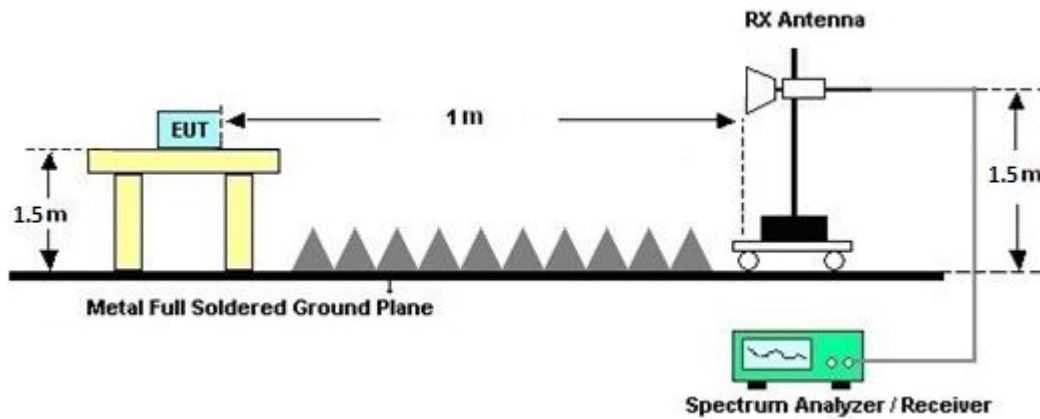
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



**3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)**

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

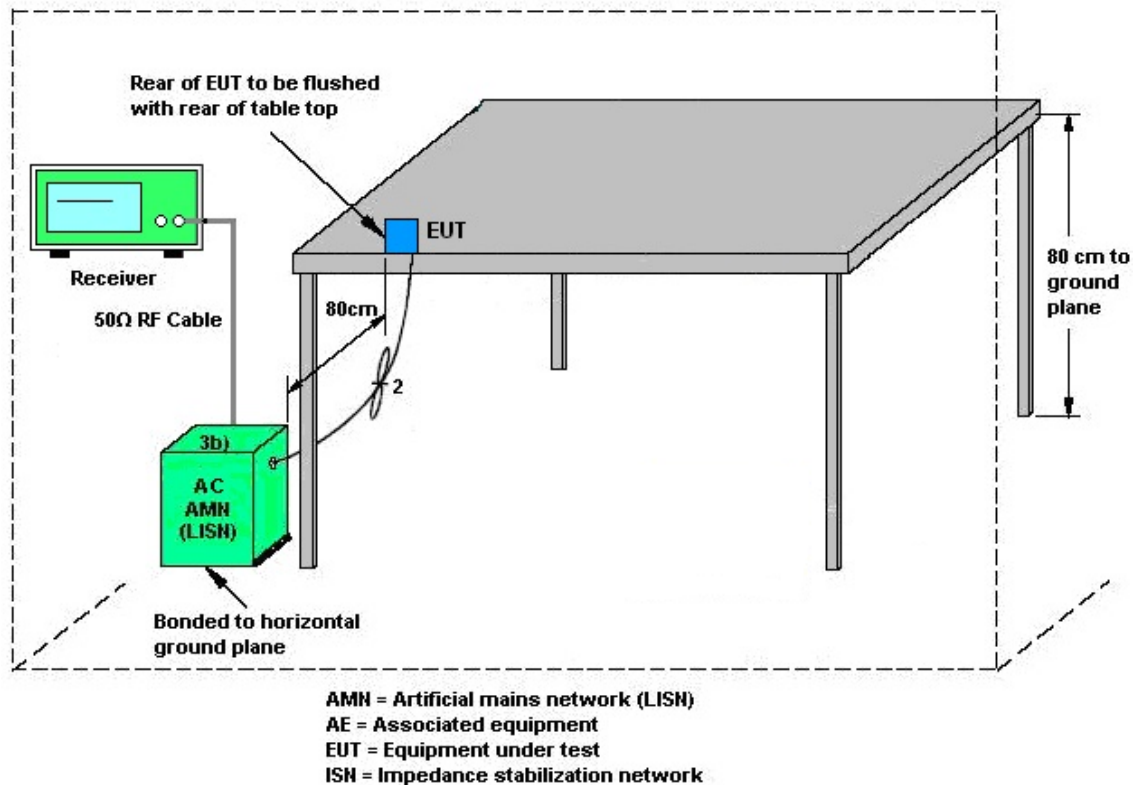
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 23, 2023	Sep. 21, 2023~Nov. 01, 2023	Apr. 22, 2024	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 01, 2022	Sep. 21, 2023~Nov. 01, 2023	Nov. 30, 2023	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 28, 2023	Sep. 21, 2023~Nov. 01, 2023	Feb. 27, 2024	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 20, 2023	Sep. 21, 2023~Nov. 01, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Sep. 21, 2023~Oct. 01, 2023	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 02, 2023	Oct. 02, 2023~Nov. 01, 2023	Oct. 01, 2024	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 24, 2023	Sep. 21, 2023~Nov. 01, 2023	Mar. 23, 2024	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2023	Sep. 21, 2023~Nov. 01, 2023	Mar. 27, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 22, 2023	Sep. 21, 2023~Nov. 01, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 22, 2023	Sep. 21, 2023~Nov. 01, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 22, 2023	Sep. 21, 2023~Nov. 01, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 15, 2023	Sep. 21, 2023~Nov. 01, 2023	Sep. 14, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 22, 2023	Sep. 21, 2023~Nov. 01, 2023	Feb. 21, 2024	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 20, 2023	Sep. 21, 2023~Nov. 01, 2023	Apr. 19, 2024	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Sep. 21, 2023~Nov. 01, 2023	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Sep. 21, 2023~Nov. 01, 2023	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Sep. 21, 2023~Nov. 01, 2023	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Sep. 21, 2023~Nov. 01, 2023	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Sep. 21, 2023~Nov. 01, 2023	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 14, 2023	Sep. 21, 2023~Nov. 01, 2023	Mar. 13, 2024	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Sep. 21, 2023~Nov. 01, 2023	Jun. 26, 2024	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 24, 2022	Sep. 21, 2023~Nov. 01, 2023	Nov. 23, 2023	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 14, 2023	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2022	Sep. 14, 2023	Nov. 30, 2023	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2022	Sep. 14, 2023	Nov. 16, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2022	Sep. 14, 2023	Nov. 30, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 17, 2022	Sep. 14, 2023	Nov. 16, 2023	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Sep. 14, 2023	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-FN	00691	9kHz-200MHz	Jul. 28, 2023	Sep. 14, 2023	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 29, 2022	Sep. 14, 2023	Dec. 28, 2023	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Sep. 21, 2023~ Oct. 23, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 13, 2022	Sep. 21, 2023~ Oct. 23, 2023	Dec. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Dec. 26, 2022	Sep. 21, 2023~ Oct. 23, 2023	Dec. 25, 2023	Conducted (TH05-HY)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.3 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ray Wang	Temperature:	21~25	°C
Test Date:	2023/9/21~2023/10/23	Relative Humidity:	51~54	%

Remark: For Conducted Test Items, Internal Ant. 1 means Internal Antenna (Right) and Internal Ant. 2 means Internal Antenna (Left).

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	16.68	16.73	20.00	19.84	16.45	16.45	0.5	Pass
11a	6Mbps	1	157	5785	16.73	16.68	20.00	19.92	16.45	16.45	0.5	Pass
11a	6Mbps	1	165	5825	16.68	16.73	20.08	19.92	16.45	16.45	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	14.20	14.60		30.00	30.00	5.95	4.94	Pass
11a	6Mbps	1	157	5785	14.70	14.40		30.00	30.00	5.95	4.94	Pass
11a	6Mbps	1	165	5825	14.80	14.40		30.00	30.00	5.95	4.94	Pass

U-NII-3 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	149	5745	13.90	11.30	15.80	30.00		5.95		Pass
HT20	MCS0	2	157	5785	14.00	10.90	15.73	30.00		5.95		Pass
HT20	MCS0	2	165	5825	13.40	10.10	15.07	30.00		5.95		Pass
HT40	MCS0	2	151	5755	13.10	10.50	15.00	30.00		5.95		Pass
HT40	MCS0	2	159	5795	13.30	10.20	15.03	30.00		5.95		Pass
VHT20	MCS0	2	149	5745	13.90	11.30	15.80	30.00		5.95		Pass
VHT20	MCS0	2	157	5785	14.00	10.90	15.73	30.00		5.95		Pass
VHT20	MCS0	2	165	5825	13.40	10.10	15.07	30.00		5.95		Pass
VHT40	MCS0	2	151	5755	13.10	10.50	15.00	30.00		5.95		Pass
VHT40	MCS0	2	159	5795	13.30	10.20	15.03	30.00		5.95		Pass
VHT80	MCS0	2	155	5775	9.30	6.40	11.10	30.00		5.95		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	0.23	0.23	2.22	2.22	0.13	0.66		30.00	30.00	5.95	4.94	Pass
11a	6Mbps	1	157	5785	0.23	0.23	2.22	2.22	0.29	0.42		30.00	30.00	5.95	4.94	Pass
11a	6Mbps	1	165	5825	0.23	0.23	2.22	2.22	0.64	0.57		30.00	30.00	5.95	4.94	Pass

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

U-NII-3 MIMO													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	18.78	18.78	20.88	20.64	18.10	17.95	0.5	Pass
HE20	MCS0	2	157	5785	Full	18.83	18.78	20.72	20.56	17.95	17.90	0.5	Pass
HE20	MCS0	2	165	5825	Full	18.83	18.78	20.88	20.56	18.00	18.05	0.5	Pass
HE40	MCS0	2	151	5755	Full	37.76	37.76	41.92	41.76	37.17	37.35	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.76	37.76	41.76	41.76	37.35	36.72	0.5	Pass
HE80	MCS0	2	155	5775	Full	77.68	77.80	81.60	95.36	78.24	78.24	0.5	Pass

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	14.00	11.40	15.90	30.00		5.95		Pass
HE20	MCS0	2	157	5785	Full	14.10	11.00	15.83	30.00		5.95		Pass
HE20	MCS0	2	165	5825	Full	13.50	10.20	15.17	30.00		5.95		Pass
HE40	MCS0	2	151	5755	Full	13.20	10.60	15.10	30.00		5.95		Pass
HE40	MCS0	2	159	5795	Full	13.40	10.30	15.13	30.00		5.95		Pass
HE80	MCS0	2	155	5775	Full	9.40	6.50	11.20	30.00		5.95		Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-3 MIMO																	
Mod.	Data Rate	NtX	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	0.28	0.28	2.22	0.15	-2.52	3.16	27.53		8.47		Pass	
HE20	MCS0	2	157	5785	Full	0.28	0.28	2.22	-0.75	-3.55	2.26	27.53		8.47		Pass	
HE20	MCS0	2	165	5825	Full	0.28	0.28	2.22	-0.68	-3.24	2.33	27.53		8.47		Pass	
HE40	MCS0	2	151	5755	Full	0.46	0.46	2.22	-3.90	-4.20	-0.89	27.53		8.47		Pass	
HE40	MCS0	2	159	5795	Full	0.46	0.46	2.22	-3.65	-5.90	-0.64	27.53		8.47		Pass	
HE80	MCS0	2	155	5775	Full	0.66	0.67	2.22	-10.09	-12.95	-7.08	27.53		8.47		Pass	

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)



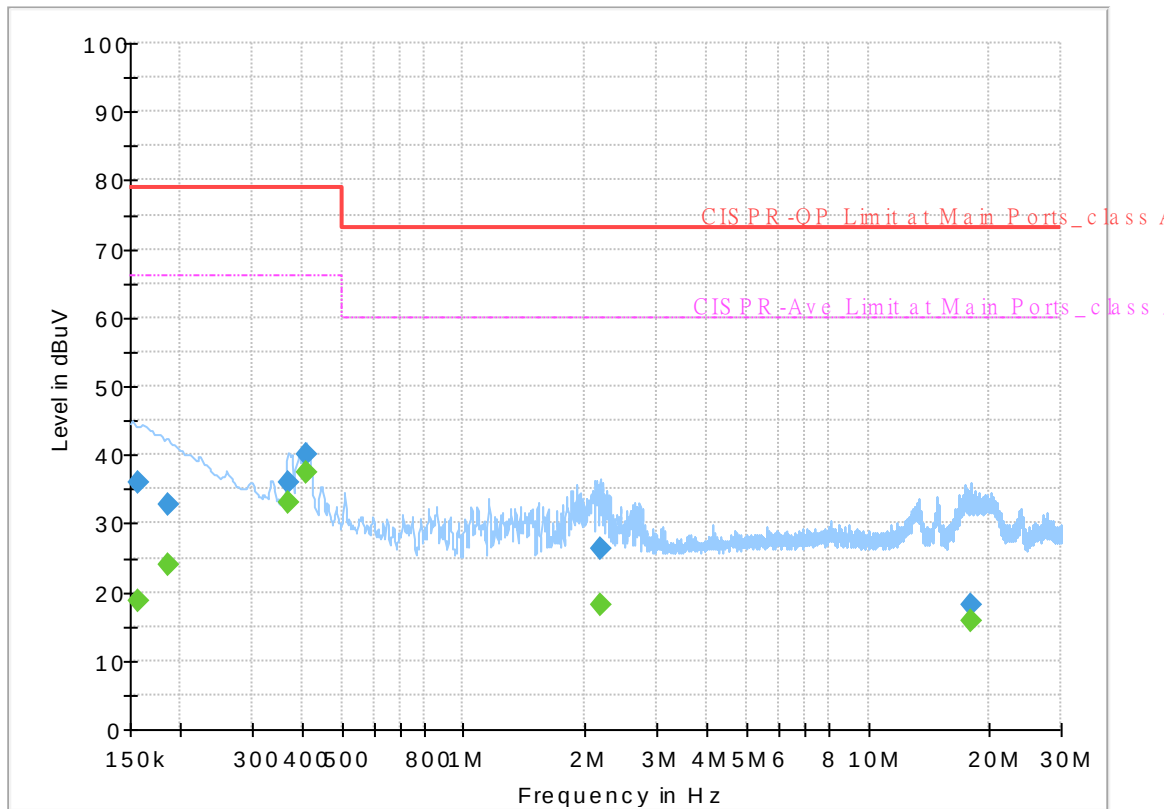
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 381616
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



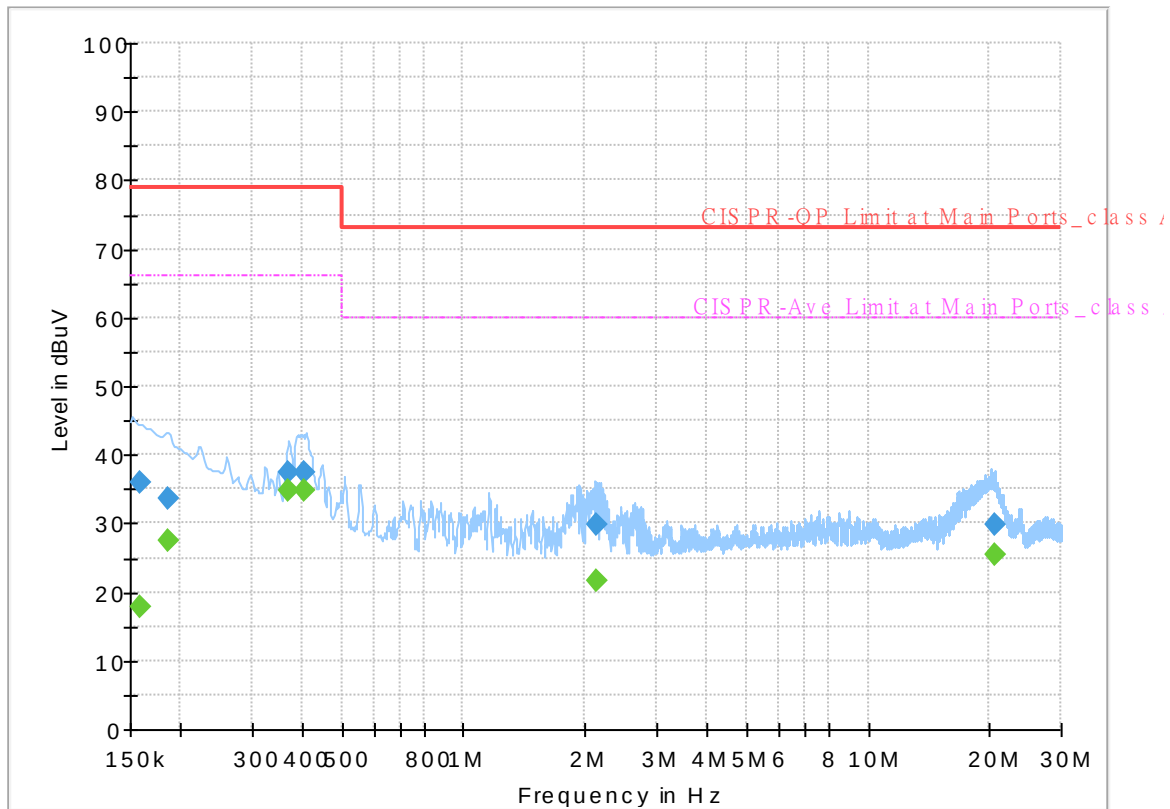
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	18.60	66.00	47.40	L1	OFF	19.8
0.156750	36.08	---	79.00	42.92	L1	OFF	19.8
0.186000	---	23.93	66.00	42.07	L1	OFF	19.8
0.186000	32.86	---	79.00	46.14	L1	OFF	19.8
0.370500	---	33.16	66.00	32.84	L1	OFF	19.8
0.370500	36.08	---	79.00	42.92	L1	OFF	19.8
0.411000	---	37.57	66.00	28.43	L1	OFF	19.8
0.411000	40.04	---	79.00	38.96	L1	OFF	19.8
2.170500	---	18.13	60.00	41.87	L1	OFF	19.9
2.170500	26.24	---	73.00	46.76	L1	OFF	19.9
17.875500	---	15.66	60.00	44.34	L1	OFF	19.9
17.875500	18.26	---	73.00	54.74	L1	OFF	19.9

EUT Information

Report NO : 381616
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	17.84	66.00	48.16	N	OFF	19.8
0.159000	35.90	---	79.00	43.10	N	OFF	19.8
0.186000	---	27.46	66.00	38.54	N	OFF	19.8
0.186000	33.66	---	79.00	45.34	N	OFF	19.8
0.370500	---	34.77	66.00	31.23	N	OFF	19.8
0.370500	37.56	---	79.00	41.44	N	OFF	19.8
0.406500	---	34.81	66.00	31.19	N	OFF	19.8
0.406500	37.52	---	79.00	41.48	N	OFF	19.8
2.123250	---	21.74	60.00	38.26	N	OFF	19.8
2.123250	29.73	---	73.00	43.27	N	OFF	19.8
20.627250	---	25.39	60.00	34.61	N	OFF	20.1
20.627250	29.71	---	73.00	43.29	N	OFF	20.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	23.2~27.6°C
		Relative Humidity :	42.5~74%

Remark: For Radiated Spurious Emission Test Data, Internal Ant. 1 means Internal Antenna (Right) and Internal Ant. 2 means Internal Antenna (Left).

<Internal Antenna>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11a CH 149 5745MHz		5644.4	50.52	-17.68	68.2	37.05	34.9	12.48	33.91	326	40	P	H
		5656.4	50.51	-22.44	72.95	37.03	34.91	12.48	33.91	326	40	P	H
		5710.8	52.71	-55.52	108.23	39.11	35.02	12.5	33.92	326	40	P	H
		5723	55.63	-62.01	117.64	42.01	35.05	12.5	33.93	326	40	P	H
	*	5745	108.03	-	-	94.36	35.09	12.51	33.93	326	40	P	H
	*	5745	100.52	-	-	86.85	35.09	12.51	33.93	326	40	A	H
													H
													H
		5621.4	50.41	-17.79	68.2	36.94	34.9	12.47	33.9	298	92	P	V
		5656.4	50.94	-22.01	72.95	37.46	34.91	12.48	33.91	298	92	P	V
		5715.6	52.06	-57.51	109.57	38.46	35.03	12.5	33.93	298	92	P	V
		5724.6	52.2	-69.09	121.29	38.58	35.05	12.5	33.93	298	92	P	V
	*	5745	104.68	-	-	91.01	35.09	12.51	33.93	298	92	P	V
	*	5745	97.08	-	-	83.41	35.09	12.51	33.93	298	92	A	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5611	49.89	-18.31	68.2	36.43	34.9	12.46	33.9	338	45	P	H
		5700	50.82	-54.38	105.2	37.25	35	12.49	33.92	338	45	P	H
		5700	50.82	-54.38	105.2	37.25	35	12.49	33.92	338	45	P	H
		5721.8	49.77	-65.13	114.9	36.16	35.04	12.5	33.93	338	45	P	H
	*	5785	108.72	-	-	95.04	35.1	12.52	33.94	338	45	P	H
	*	5785	101.05	-	-	87.37	35.1	12.52	33.94	338	45	A	H
		5850.8	50.65	-69.73	120.38	36.89	35.1	12.62	33.96	338	45	P	H
		5865.2	51.34	-56.6	107.94	37.52	35.13	12.65	33.96	338	45	P	H
		5914.8	52.21	-23.51	75.72	38.25	35.2	12.74	33.98	338	45	P	H
		5937.4	53.31	-14.89	68.2	39.31	35.2	12.78	33.98	338	45	P	H
													H
													H
		5607.6	49.6	-18.6	68.2	36.14	34.9	12.46	33.9	280	96	P	V
		5658.2	50.95	-23.34	74.29	37.46	34.92	12.48	33.91	280	96	P	V
		5710.4	50.11	-58	108.11	36.51	35.02	12.5	33.92	280	96	P	V
		5725	48.8	-73.4	122.2	35.18	35.05	12.5	33.93	280	96	P	V
	*	5785	102.96	-	-	89.28	35.1	12.52	33.94	280	96	P	V
	*	5785	96.74	-	-	83.06	35.1	12.52	33.94	280	96	A	V
		5853.8	50.45	-63.09	113.54	36.67	35.11	12.63	33.96	280	96	P	V
		5858.4	51.22	-58.63	109.85	37.42	35.12	12.64	33.96	280	96	P	V
		5905.8	51.35	-31.02	82.37	37.4	35.2	12.73	33.98	280	96	P	V
		5942.2	52.63	-15.57	68.2	38.62	35.2	12.79	33.98	280	96	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	108.63	-	-	94.9	35.1	12.58	33.95	318	37	P	H
	*	5825	101.12	-	-	87.39	35.1	12.58	33.95	318	37	A	H
		5850.6	56.91	-63.92	120.83	43.15	35.1	12.62	33.96	318	37	P	H
		5855.4	55.18	-55.51	110.69	41.4	35.11	12.63	33.96	318	37	P	H
		5890.2	52.21	-41.71	93.92	38.3	35.18	12.7	33.97	318	37	P	H
		5949.8	51	-17.2	68.2	36.98	35.2	12.81	33.99	318	37	P	H
													H
													H
	*	5825	104.67	-	-	90.94	35.1	12.58	33.95	395	56	P	V
	*	5825	99.1	-	-	85.37	35.1	12.58	33.95	395	56	A	V
		5850.2	55.14	-66.6	121.74	41.38	35.1	12.62	33.96	395	56	P	V
		5861.6	52.07	-56.88	108.95	38.27	35.12	12.64	33.96	395	56	P	V
		5914.8	51.95	-23.77	75.72	37.99	35.2	12.74	33.98	395	56	P	V
		5946.6	50.47	-17.73	68.2	36.46	35.2	12.8	33.99	395	56	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	45.97	-28.03	74	45.18	38.19	19.67	57.07	-	-	P	H
		17235	51.37	-16.83	68.2	41.86	41.4	23.74	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	46.36	-27.64	74	45.57	38.19	19.67	57.07	-	-	P	V
		17235	50.59	-17.61	68.2	41.08	41.4	23.74	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V

[illegible]

[illegible]

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

[illegible]

**Band 4 - 5725~5850MHz****WIFI 802.11a (Band Edge @ 3m)**

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5635.4	50.17	-18.03	68.2	36.71	34.9	12.47	33.91	346	238	P	H
		5687.6	50.91	-45.14	96.05	37.36	34.98	12.49	33.92	346	238	P	H
		5717.2	53.43	-56.59	110.02	39.83	35.03	12.5	33.93	346	238	P	H
		5723	60.1	-57.54	117.64	46.48	35.05	12.5	33.93	346	238	P	H
	*	5745	108.02	-	-	94.35	35.09	12.51	33.93	346	238	P	H
	*	5745	100.25	-	-	86.58	35.09	12.51	33.93	346	238	A	H
													H
													H
		5646.6	50.71	-17.49	68.2	37.24	34.9	12.48	33.91	347	264	P	V
		5691.8	51.28	-47.87	99.15	37.73	34.98	12.49	33.92	347	264	P	V
		5716.4	63.03	-46.76	109.79	49.43	35.03	12.5	33.93	347	264	P	V
		5722.6	56.52	-60.21	116.73	42.9	35.05	12.5	33.93	347	264	P	V
	*	5745	107.27	-	-	93.6	35.09	12.51	33.93	347	264	P	V
	*	5745	99.75	-	-	86.08	35.09	12.51	33.93	347	264	A	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5618.2	50.31	-17.89	68.2	36.84	34.9	12.47	33.9	361	242	P	H
		5652.2	51.18	-18.66	69.84	37.71	34.9	12.48	33.91	361	242	P	H
		5716	51.18	-58.5	109.68	37.58	35.03	12.5	33.93	361	242	P	H
		5724.6	49.1	-72.19	121.29	35.48	35.05	12.5	33.93	361	242	P	H
	*	5785	106.84	-	-	93.16	35.1	12.52	33.94	361	242	P	H
	*	5785	99.91	-	-	86.23	35.1	12.52	33.94	361	242	A	H
		5853.4	49.22	-65.23	114.45	35.44	35.11	12.63	33.96	361	242	P	H
		5867	50.97	-56.47	107.44	37.16	35.13	12.65	33.97	361	242	P	H
		5910.2	52.17	-26.95	79.12	38.22	35.2	12.73	33.98	361	242	P	H
		5937.4	51.61	-16.59	68.2	37.61	35.2	12.78	33.98	361	242	P	H
													H
													H
		5614	51.01	-17.19	68.2	37.55	34.9	12.46	33.9	335	263	P	V
		5663.6	50.13	-28.17	78.3	36.63	34.93	12.48	33.91	335	263	P	V
		5717.8	49.98	-60.2	110.18	36.37	35.04	12.5	33.93	335	263	P	V
		5722.2	49.72	-66.1	115.82	36.11	35.04	12.5	33.93	335	263	P	V
	*	5785	106.07	-	-	92.39	35.1	12.52	33.94	335	263	P	V
	*	5785	98.95	-	-	85.27	35.1	12.52	33.94	335	263	A	V
		5850.4	50.15	-71.14	121.29	36.39	35.1	12.62	33.96	335	263	P	V
		5874	50.84	-54.64	105.48	36.99	35.15	12.67	33.97	335	263	P	V
		5917.8	52.83	-20.68	73.51	38.86	35.2	12.75	33.98	335	263	P	V
		5926	51.3	-16.9	68.2	37.32	35.2	12.76	33.98	335	263	P	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	106.08	-	-	92.35	35.1	12.58	33.95	319	242	P	H
	*	5825	99.68	-	-	85.95	35.1	12.58	33.95	319	242	A	H
		5850.6	52.5	-68.33	120.83	38.74	35.1	12.62	33.96	319	242	P	H
		5858.4	52.97	-56.88	109.85	39.17	35.12	12.64	33.96	319	242	P	H
		5906.8	53.13	-28.5	81.63	39.18	35.2	12.73	33.98	319	242	P	H
		5937.4	51.61	-16.59	68.2	37.61	35.2	12.78	33.98	319	242	P	H
													H
													H
	*	5825	106.47	-	-	92.74	35.1	12.58	33.95	336	264	P	V
	*	5825	98.94	-	-	85.21	35.1	12.58	33.95	336	264	A	V
		5851.4	58.89	-60.12	119.01	45.12	35.1	12.63	33.96	336	264	P	V
		5860	53.59	-55.81	109.4	39.79	35.12	12.64	33.96	336	264	P	V
		5911.2	51.82	-26.56	78.38	37.86	35.2	12.74	33.98	336	264	P	V
		5945.2	51.25	-16.95	68.2	37.24	35.2	12.8	33.99	336	264	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 5725~5850MHz****WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	45.91	-28.09	74	45.12	38.19	19.67	57.07	-	-	P	H
		17235	50.98	-17.22	68.2	41.47	41.4	23.74	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	45.77	-28.23	74	44.98	38.19	19.67	57.07	-	-	P	V
		17235	50.54	-17.66	68.2	41.03	41.4	23.74	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		11570	46.22	-27.78	74	45.19	38.27	19.74	56.98	-	-	P	H
		17355	50.97	-17.23	68.2	41.24	41.51	23.85	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	45.56	-28.44	74	44.53	38.27	19.74	56.98	-	-	P	V
		17355	51.64	-16.56	68.2	41.91	41.51	23.85	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

[illegible]

Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a LF		50.25	23.87	-16.13	40	38.2	14.22	1.37	29.92	-	-	P	H
		194.7	29.33	-14.17	43.5	41.93	14.76	2.47	29.83	-	-	P	H
		258.96	30.23	-15.77	46	37.97	19.4	2.68	29.82	-	-	P	H
		910.4	32.24	-13.76	46	26.84	28.77	5.44	28.81	-	-	P	H
		954.5	33.54	-12.46	46	26.09	30.57	5.52	28.64	-	-	P	H
		991.6	35.49	-18.51	54	27.9	30.26	5.62	28.29	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.51	-6.49	40	37.89	24.51	1.05	29.94	-	-	P	V
		49.98	27.03	-12.97	40	41.21	14.37	1.37	29.92	-	-	P	V
		228.72	31.93	-14.07	46	43.18	16	2.57	29.82	-	-	P	V
		821.5	35.08	-10.92	46	31.61	27.66	5.04	29.23	-	-	P	V
		955.9	35.58	-10.42	46	28.06	30.61	5.53	28.62	-	-	P	V
		983.9	35.87	-18.13	54	28.16	30.47	5.6	28.36	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												

**Band 4 - 5725~5850MHz****WIFI 802.11ax HE20_Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		5646.6	50.59	-17.61	68.2	37.12	34.9	12.48	33.91	297	56	P	H
		5681.2	51.13	-40.2	91.33	37.6	34.96	12.49	33.92	297	56	P	H
		5717.6	54.49	-55.64	110.13	40.88	35.04	12.5	33.93	297	56	P	H
		5724.8	59.47	-62.27	121.74	45.85	35.05	12.5	33.93	297	56	P	H
	*	5745	110.49	-	-	96.82	35.09	12.51	33.93	297	56	P	H
	*	5745	103.32	-	-	89.65	35.09	12.51	33.93	297	56	A	H
													H
													H
		5608.8	50.53	-17.67	68.2	37.07	34.9	12.46	33.9	379	68	P	V
		5692.6	50.75	-48.99	99.74	37.19	34.99	12.49	33.92	379	68	P	V
		5714	54.04	-55.08	109.12	40.44	35.03	12.5	33.93	379	68	P	V
		5723.8	58.51	-60.95	119.46	44.89	35.05	12.5	33.93	379	68	P	V
	*	5745	108.39	-	-	94.72	35.09	12.51	33.93	379	68	P	V
	*	5745	100.75	-	-	87.08	35.09	12.51	33.93	379	68	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		5603	50.62	-17.58	68.2	37.16	34.9	12.46	33.9	317	46	P	H
		5668.8	50.62	-31.53	82.15	37.11	34.94	12.48	33.91	317	46	P	H
		5701.4	50.92	-54.67	105.59	37.34	35	12.5	33.92	317	46	P	H
		5723.6	50.64	-68.37	119.01	37.02	35.05	12.5	33.93	317	46	P	H
	*	5785	109.84	-	-	96.16	35.1	12.52	33.94	317	46	P	H
	*	5785	101.49	-	-	87.81	35.1	12.52	33.94	317	46	A	H
		5851.99	50.5	-67.16	117.66	36.73	35.1	12.63	33.96	317	46	P	H
		5870	51.84	-54.76	106.6	38.01	35.14	12.66	33.97	317	46	P	H
		5907	51.54	-29.94	81.48	37.59	35.2	12.73	33.98	317	46	P	H
		5935.6	51.75	-16.45	68.2	37.75	35.2	12.78	33.98	317	46	P	H
													H
													H
		5633.6	49.99	-18.21	68.2	36.52	34.9	12.47	33.9	305	68	P	V
		5665.2	50.67	-28.81	79.48	37.17	34.93	12.48	33.91	305	68	P	V
		5712.6	49.28	-59.45	108.73	35.68	35.03	12.5	33.93	305	68	P	V
		5724.99	50.62	-71.56	122.18	37	35.05	12.5	33.93	305	68	P	V
	*	5785	108.29	-	-	94.61	35.1	12.52	33.94	305	68	P	V
	*	5785	99.34	-	-	85.66	35.1	12.52	33.94	305	68	A	V
		5853	50.77	-64.59	115.36	36.99	35.11	12.63	33.96	305	68	P	V
		5860.4	51.29	-58	109.29	37.49	35.12	12.64	33.96	305	68	P	V
		5896.4	51.28	-38.05	89.33	37.35	35.19	12.71	33.97	305	68	P	V
		5938.6	51.82	-16.38	68.2	37.81	35.2	12.79	33.98	305	68	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 165 5825MHz	*	5825	108.72	-	-	94.99	35.1	12.58	33.95	296	55	P	H
	*	5825	102	-	-	88.27	35.1	12.58	33.95	296	55	A	H
		5850.8	59.7	-60.68	120.38	45.94	35.1	12.62	33.96	296	55	P	H
		5858.4	53.08	-56.77	109.85	39.28	35.12	12.64	33.96	296	55	P	H
		5881	51.88	-48.86	100.74	38.01	35.16	12.68	33.97	296	55	P	H
		5943.4	52.59	-15.61	68.2	38.58	35.2	12.8	33.99	296	55	P	H
													H
													H
	*	5825	106.24	-	-	92.51	35.1	12.58	33.95	313	61	P	V
	*	5825	99.41	-	-	85.68	35.1	12.58	33.95	313	61	A	V
		5851	58.39	-61.53	119.92	44.63	35.1	12.62	33.96	313	61	P	V
		5859.6	54.06	-55.45	109.51	40.26	35.12	12.64	33.96	313	61	P	V
		5878.6	51.59	-50.94	102.53	37.72	35.16	12.68	33.97	313	61	P	V
		5927	50.55	-17.65	68.2	36.57	35.2	12.76	33.98	313	61	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		11490	46.08	-27.92	74	45.29	38.19	19.67	57.07	-	-	P	H
		17235	51.25	-16.95	68.2	41.74	41.4	23.74	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	45.54	-28.46	74	44.75	38.19	19.67	57.07	-	-	P	V
		17235	51.78	-16.42	68.2	42.27	41.4	23.74	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		11570	46.36	-27.64	74	45.33	38.27	19.74	56.98	-	-	P	H
		17355	51.02	-17.18	68.2	41.29	41.51	23.85	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	46.34	-27.66	74	45.31	38.27	19.74	56.98	-	-	P	V
		17355	50.76	-17.44	68.2	41.03	41.51	23.85	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		5610	51.55	-16.65	68.2	38.09	34.9	12.46	33.9	326	46	P	H
		5693.4	51.61	-48.72	100.33	38.05	34.99	12.49	33.92	326	46	P	H
		5719.2	63.08	-47.5	110.58	49.47	35.04	12.5	33.93	326	46	P	H
		5721.2	59.82	-53.72	113.54	46.21	35.04	12.5	33.93	326	46	P	H
	*	5755	104.52	-	-	90.85	35.1	12.51	33.94	326	46	P	H
	*	5755	98.74	-	-	85.07	35.1	12.51	33.94	326	46	A	H
		5850.8	50.48	-69.9	120.38	36.72	35.1	12.62	33.96	326	46	P	H
		5868.2	51.36	-55.74	107.1	37.53	35.14	12.66	33.97	326	46	P	H
		5898.2	52.29	-35.7	87.99	38.35	35.2	12.71	33.97	326	46	P	H
		5929.2	51.82	-16.38	68.2	37.83	35.2	12.77	33.98	326	46	P	H
													H
													H
		5645	51.51	-16.69	68.2	38.04	34.9	12.48	33.91	322	67	P	V
		5666.6	50.59	-29.93	80.52	37.09	34.93	12.48	33.91	322	67	P	V
		5719.4	58.95	-51.68	110.63	45.34	35.04	12.5	33.93	322	67	P	V
		5722.2	61.73	-54.09	115.82	48.12	35.04	12.5	33.93	322	67	P	V
	*	5755	104.47	-	-	90.8	35.1	12.51	33.94	322	67	P	V
	*	5755	96.64	-	-	82.97	35.1	12.51	33.94	322	67	A	V
		5850.2	51.46	-70.28	121.74	37.7	35.1	12.62	33.96	322	67	P	V
		5856.2	50.27	-60.19	110.46	36.49	35.11	12.63	33.96	322	67	P	V
		5900.2	51.61	-34.9	86.51	37.66	35.2	12.72	33.97	322	67	P	V
		5926.4	51.59	-16.61	68.2	37.61	35.2	12.76	33.98	322	67	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 159 5795MHz		5622.8	49.8	-18.4	68.2	36.33	34.9	12.47	33.9	338	44	P	H
		5672	50.77	-33.75	84.52	37.25	34.94	12.49	33.91	338	44	P	H
		5718.8	50.6	-59.86	110.46	36.99	35.04	12.5	33.93	338	44	P	H
		5724.2	50.7	-69.68	120.38	37.08	35.05	12.5	33.93	338	44	P	H
	*	5795	105.24	-	-	91.56	35.1	12.53	33.95	338	44	P	H
	*	5795	98.29	-	-	84.61	35.1	12.53	33.95	338	44	A	H
		5852.8	54.32	-61.5	115.82	40.54	35.11	12.63	33.96	338	44	P	H
		5856.6	52.04	-58.31	110.35	38.26	35.11	12.63	33.96	338	44	P	H
		5909.6	52.13	-27.43	79.56	38.18	35.2	12.73	33.98	338	44	P	H
		5937.8	52.2	-16	68.2	38.2	35.2	12.78	33.98	338	44	P	H
													H
													H
		5637.4	50.92	-17.28	68.2	37.46	34.9	12.47	33.91	303	68	P	V
		5697.6	50.21	-53.22	103.43	36.64	35	12.49	33.92	303	68	P	V
		5719.2	49.86	-60.72	110.58	36.25	35.04	12.5	33.93	303	68	P	V
		5721.6	49.81	-64.64	114.45	36.2	35.04	12.5	33.93	303	68	P	V
	*	5795	103.45	-	-	89.77	35.1	12.53	33.95	303	68	P	V
	*	5795	96.76	-	-	83.08	35.1	12.53	33.95	303	68	A	V
		5854.4	51.06	-61.11	112.17	37.28	35.11	12.63	33.96	303	68	P	V
		5859.6	51.22	-58.29	109.51	37.42	35.12	12.64	33.96	303	68	P	V
		5915.6	52.19	-22.94	75.13	38.23	35.2	12.74	33.98	303	68	P	V
		5943.6	51.66	-16.54	68.2	37.65	35.2	12.8	33.99	303	68	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		11510	46.58	-27.42	74	45.72	38.21	19.69	57.04	-	-	P	H
		17265	49.97	-18.23	68.2	40.43	41.4	23.77	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11510	46.64	-27.36	74	45.78	38.21	19.69	57.04	-	-	P	V
		17265	50.03	-18.17	68.2	40.49	41.4	23.77	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		5614.2	50.29	-17.91	68.2	36.83	34.9	12.46	33.9	337	46	P	H
		5683.6	53.03	-40.07	93.1	39.49	34.97	12.49	33.92	337	46	P	H
		5703	52.76	-53.28	106.04	39.17	35.01	12.5	33.92	337	46	P	H
		5723.6	54.42	-64.59	119.01	40.8	35.05	12.5	33.93	337	46	P	H
	*	5775	101.65	-	-	87.97	35.1	12.52	33.94	337	46	P	H
	*	5775	91.69	-	-	78.01	35.1	12.52	33.94	337	46	A	H
		5851.8	54.63	-63.47	118.1	40.86	35.1	12.63	33.96	337	46	P	H
		5859.6	55.07	-54.44	109.51	41.27	35.12	12.64	33.96	337	46	P	H
		5875	52.74	-52.46	105.2	38.89	35.15	12.67	33.97	337	46	P	H
		5932.2	50.89	-17.31	68.2	36.9	35.2	12.77	33.98	337	46	P	H
													H
													H
		5645.6	49.82	-18.38	68.2	36.35	34.9	12.48	33.91	400	55	P	V
		5680.4	53.01	-37.72	90.73	39.48	34.96	12.49	33.92	400	55	P	V
		5705.8	53.35	-53.48	106.83	39.76	35.01	12.5	33.92	400	55	P	V
		5721.8	50.68	-64.22	114.9	37.07	35.04	12.5	33.93	400	55	P	V
	*	5775	96.69	-	-	83.01	35.1	12.52	33.94	400	55	P	V
	*	5775	89.81	-	-	76.13	35.1	12.52	33.94	400	55	A	V
		5851.6	51.15	-67.4	118.55	37.38	35.1	12.63	33.96	400	55	P	V
		5869.2	52.5	-54.32	106.82	38.67	35.14	12.66	33.97	400	55	P	V
		5907.4	51.71	-29.48	81.19	37.76	35.2	12.73	33.98	400	55	P	V
		5945.2	51.73	-16.47	68.2	37.72	35.2	12.8	33.99	400	55	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		11550	45.86	-28.14	74	44.89	38.25	19.72	57	-	-	P	H
		17325	50.38	-17.82	68.2	40.74	41.45	23.82	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
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													H
													H
													H
802.11ax HE80 Full CH 155 5775MHz		11550	47.5	-26.5	74	46.53	38.25	19.72	57	-	-	P	V
		17325	51.29	-16.91	68.2	41.65	41.45	23.82	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V
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													V
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													V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
Remark	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Emission below 1GHz

5GHz WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full LF		49.98	27.8	-12.2	40	41.98	14.37	1.37	29.92	-	-	P	H
		193.08	32.66	-10.84	43.5	45.3	14.72	2.47	29.83	-	-	P	H
		217.65	30.28	-15.72	46	43.07	14.5	2.54	29.83	-	-	P	H
		841.8	32.23	-13.77	46	27.87	28.47	5.08	29.19	-	-	P	H
		950.3	33.71	-12.29	46	26.56	30.32	5.51	28.68	-	-	P	H
		965.7	35.04	-18.96	54	27.22	30.79	5.56	28.53	-	-	P	H
													H
													H
													H
													H
													H
		30	33.31	-6.69	40	37.69	24.51	1.05	29.94	-	-	P	V
		49.98	33.32	-6.68	40	47.5	14.37	1.37	29.92	-	-	P	V
		209.55	34.24	-9.26	43.5	46.59	14.96	2.52	29.83	-	-	P	V
		871.9	36.89	-9.11	46	31.94	28.74	5.24	29.03	-	-	P	V
		956.6	37.36	-8.64	46	29.82	30.63	5.53	28.62	-	-	P	V
		997.9	40.34	-13.66	54	32.75	30.18	5.64	28.23	-	-	P	V
													V
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													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



<External Antenna>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5620	51.09	-17.11	68.2	37.62	34.9	12.47	33.9	316	89	P	H
		5666	51.49	-28.59	80.08	37.99	34.93	12.48	33.91	316	89	P	H
		5717.4	50.07	-60	110.07	36.47	35.03	12.5	33.93	316	89	P	H
		5723.4	53.99	-64.56	118.55	40.37	35.05	12.5	33.93	316	89	P	H
	*	5745	106.08	-	-	92.41	35.09	12.51	33.93	316	89	P	H
	*	5745	100.24	-	-	86.57	35.09	12.51	33.93	316	89	A	H
													H
													H
		5615	49.59	-18.61	68.2	36.12	34.9	12.47	33.9	396	299	P	V
		5694	50.09	-50.69	100.78	36.53	34.99	12.49	33.92	396	299	P	V
		5706.4	50.93	-56.06	106.99	37.34	35.01	12.5	33.92	396	299	P	V
		5724	48.85	-71.07	119.92	35.23	35.05	12.5	33.93	396	299	P	V
	*	5745	100.19	-	-	86.52	35.09	12.51	33.93	396	299	P	V
	*	5745	93.73	-	-	80.06	35.09	12.51	33.93	396	299	A	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5648.8	50.87	-17.33	68.2	37.4	34.9	12.48	33.91	400	279	P	H
		5675.2	50.62	-36.27	86.89	37.1	34.95	12.49	33.92	400	279	P	H
		5714.6	49.74	-59.55	109.29	36.14	35.03	12.5	33.93	400	279	P	H
		5724.6	49.08	-72.21	121.29	35.46	35.05	12.5	33.93	400	279	P	H
	*	5785	106.57	-	-	92.89	35.1	12.52	33.94	400	279	P	H
	*	5785	100.02	-	-	86.34	35.1	12.52	33.94	400	279	A	H
		5850.6	50.91	-69.92	120.83	37.15	35.1	12.62	33.96	400	279	P	H
		5874.4	50.91	-54.46	105.37	37.06	35.15	12.67	33.97	400	279	P	H
		5881.6	51.54	-48.76	100.3	37.67	35.16	12.68	33.97	400	279	P	H
		5937.2	51.37	-16.83	68.2	37.37	35.2	12.78	33.98	400	279	P	H
													H
													H
		5609.8	50.34	-17.86	68.2	36.88	34.9	12.46	33.9	400	323	P	V
		5674.2	50.03	-36.12	86.15	36.51	34.95	12.49	33.92	400	323	P	V
		5700.8	50.18	-55.24	105.42	36.6	35	12.5	33.92	400	323	P	V
		5724.4	50.27	-70.56	120.83	36.65	35.05	12.5	33.93	400	323	P	V
	*	5785	98.82	-	-	85.14	35.1	12.52	33.94	400	323	P	V
	*	5785	91.97	-	-	78.29	35.1	12.52	33.94	400	323	A	V
		5852.4	51.37	-65.36	116.73	37.6	35.1	12.63	33.96	400	323	P	V
		5873.2	51.41	-54.29	105.7	37.56	35.15	12.67	33.97	400	323	P	V
		5913.6	52.05	-24.56	76.61	38.09	35.2	12.74	33.98	400	323	P	V
		5928.6	51.12	-17.08	68.2	37.13	35.2	12.77	33.98	400	323	P	V
													V
													V



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	107.51	-	-	93.78	35.1	12.58	33.95	399	273	P	H
	*	5825	100.73	-	-	87	35.1	12.58	33.95	399	273	A	H
		5850.8	51.55	-68.83	120.38	37.79	35.1	12.62	33.96	399	273	P	H
		5860.4	51.67	-57.62	109.29	37.87	35.12	12.64	33.96	399	273	P	H
		5897.6	51.78	-36.66	88.44	37.84	35.2	12.71	33.97	399	273	P	H
		5931.6	53.44	-14.76	68.2	39.45	35.2	12.77	33.98	399	273	P	H
													H
													H
	*	5825	101.08	-	-	87.35	35.1	12.58	33.95	384	300	P	V
	*	5825	93.9	-	-	80.17	35.1	12.58	33.95	384	300	A	V
		5850.6	49.86	-70.97	120.83	36.1	35.1	12.62	33.96	384	300	P	V
		5860.2	51.21	-58.13	109.34	37.41	35.12	12.64	33.96	384	300	P	V
		5919	53.1	-19.52	72.62	39.13	35.2	12.75	33.98	384	300	P	V
		5943.6	50.72	-17.48	68.2	36.71	35.2	12.8	33.99	384	300	P	V
													V
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Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	45.23	-28.77	74	44.44	38.19	19.67	57.07	-	-	P	H
		17235	50.7	-17.5	68.2	41.19	41.4	23.74	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	45.77	-28.23	74	44.98	38.19	19.67	57.07	-	-	P	V
		17235	50.3	-17.9	68.2	40.79	41.4	23.74	55.63	-	-	P	V
													V
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WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		11570	45.42	-28.58	74	44.39	38.27	19.74	56.98	-	-	P	H
		17355	50.47	-17.73	68.2	40.74	41.51	23.85	55.63	-	-	P	H
													H
													H
													H
													H
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													H
													H
													H
													H
		11570	45.74	-28.26	74	44.71	38.27	19.74	56.98	-	-	P	V
		17355	50.45	-17.75	68.2	40.72	41.51	23.85	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz		11650	46.57	-27.43	74	45.26	38.4	19.82	56.91	-	-	P	H
		17475	51.24	-16.96	68.2	41.49	41.45	23.93	55.63	-	-	P	H
													H
													H
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													H
													H
													H
													H
		11650	46	-28	74	44.69	38.4	19.82	56.91	-	-	P	V
		17475	51.08	-17.12	68.2	41.33	41.45	23.93	55.63	-	-	P	V
													V
													V
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Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

[illegible]



Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5645	50.64	-17.56	68.2	37.17	34.9	12.48	33.91	384	272	P	H
		5699.4	51.37	-53.39	104.76	37.8	35	12.49	33.92	384	272	P	H
		5718	61.46	-48.78	110.24	47.85	35.04	12.5	33.93	384	272	P	H
		5725	70.3	-51.9	122.2	56.68	35.05	12.5	33.93	384	272	P	H
	*	5745	109.36	-	-	95.69	35.09	12.51	33.93	384	272	P	H
	*	5745	102.67	-	-	89	35.09	12.51	33.93	384	272	A	H
													H
													H
		5622.8	52.2	-16	68.2	38.73	34.9	12.47	33.9	386	325	P	V
		5658.8	50.07	-24.67	74.74	36.58	34.92	12.48	33.91	386	325	P	V
		5720	51.68	-59.12	110.8	38.07	35.04	12.5	33.93	386	325	P	V
		5723.8	61.32	-58.14	119.46	47.7	35.05	12.5	33.93	386	325	P	V
	*	5745	100.02	-	-	86.35	35.09	12.51	33.93	386	325	P	V
	*	5745	94.01	-	-	80.34	35.09	12.51	33.93	386	325	A	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5616.8	50.67	-17.53	68.2	37.2	34.9	12.47	33.9	381	266	P	H
		5671.4	50.16	-33.92	84.08	36.65	34.94	12.48	33.91	381	266	P	H
		5708	50.35	-57.09	107.44	36.75	35.02	12.5	33.92	381	266	P	H
		5722	48.01	-67.35	115.36	34.4	35.04	12.5	33.93	381	266	P	H
	*	5785	107.03	-	-	93.35	35.1	12.52	33.94	381	266	P	H
	*	5785	100.21	-	-	86.53	35.1	12.52	33.94	381	266	A	H
		5851.4	50.34	-68.67	119.01	36.57	35.1	12.63	33.96	381	266	P	H
		5867.4	50.75	-56.58	107.33	36.94	35.13	12.65	33.97	381	266	P	H
		5912.8	51.13	-26.07	77.2	37.17	35.2	12.74	33.98	381	266	P	H
		5932.6	51.15	-17.05	68.2	37.15	35.2	12.78	33.98	381	266	P	H
													H
													H
		5608.4	50.2	-18	68.2	36.74	34.9	12.46	33.9	400	35	P	V
		5695	49.6	-51.91	101.51	36.04	34.99	12.49	33.92	400	35	P	V
		5714.8	50.59	-58.76	109.35	36.99	35.03	12.5	33.93	400	35	P	V
		5722.6	48.25	-68.48	116.73	34.63	35.05	12.5	33.93	400	35	P	V
	*	5785	100.35	-	-	86.67	35.1	12.52	33.94	400	35	P	V
	*	5785	93.57	-	-	79.89	35.1	12.52	33.94	400	35	A	V
		5852.4	52.28	-64.45	116.73	38.51	35.1	12.63	33.96	400	35	P	V
		5861.2	50.57	-58.49	109.06	36.77	35.12	12.64	33.96	400	35	P	V
		5909.6	51.65	-27.91	79.56	37.7	35.2	12.73	33.98	400	35	P	V
		5949.2	51.7	-16.5	68.2	37.68	35.2	12.81	33.99	400	35	P	V
													V
													V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz	*	5825	105.63	-	-	91.9	35.1	12.58	33.95	400	295	P	H
	*	5825	98.93	-	-	85.2	35.1	12.58	33.95	400	295	A	H
		5850	57.43	-64.77	122.2	43.67	35.1	12.62	33.96	400	295	P	H
		5855.8	52.83	-57.75	110.58	39.05	35.11	12.63	33.96	400	295	P	H
		5899.4	51.47	-35.63	87.1	37.53	35.2	12.71	33.97	400	295	P	H
		5928.6	50.92	-17.28	68.2	36.93	35.2	12.77	33.98	400	295	P	H
													H
													H
	*	5825	99.59	-	-	85.86	35.1	12.58	33.95	400	42	P	V
	*	5825	93.02	-	-	79.29	35.1	12.58	33.95	400	42	A	V
		5850.4	53.28	-68.01	121.29	39.52	35.1	12.62	33.96	400	42	P	V
		5858.8	51.45	-58.28	109.73	37.65	35.12	12.64	33.96	400	42	P	V
		5917.6	51.34	-22.32	73.66	37.37	35.2	12.75	33.98	400	42	P	V
		5931.4	50.84	-17.36	68.2	36.85	35.2	12.77	33.98	400	42	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	Level	Factor	Loss	Factor	Pos	Pos	Avg.	(H/V)
2						(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	
802.11a CH 149 5745MHz		11490	45.97	-28.03	74	45.18	38.19	19.67	57.07	-	-	P	H
		17235	50.97	-17.23	68.2	41.46	41.4	23.74	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11490	46.5	-27.5	74	45.71	38.19	19.67	57.07	-	-	P	V
		17235	50.83	-17.37	68.2	41.32	41.4	23.74	55.63	-	-	P	V
													V
													V
													V
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													V
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WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		11570	45.59	-28.41	74	44.56	38.27	19.74	56.98	-	-	P	H
		17355	50.66	-17.54	68.2	40.93	41.51	23.85	55.63	-	-	P	H
													H
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													H
													H
													H
		11570	45.78	-28.22	74	44.75	38.27	19.74	56.98	-	-	P	V
		17355	51.01	-17.19	68.2	41.28	41.51	23.85	55.63	-	-	P	V
													V
													V
													V
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													V
													V

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz		11650	46.4	-27.6	74	45.09	38.4	19.82	56.91	-	-	P	H
		17475	50.25	-17.95	68.2	40.5	41.45	23.93	55.63	-	-	P	H
													H
													H
													H
													H
													H
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													H
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													H
													H
													H
													H
		11650	46.83	-27.17	74	45.52	38.4	19.82	56.91	-	-	P	V
		17475	50.3	-17.9	68.2	40.55	41.45	23.93	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Emission below 1GHz

5GHz WIFI 802.11a (LF @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a LF		46.74	29.66	-10.34	40	42.31	15.95	1.33	29.93	-	-	P	H
		193.35	32.95	-10.55	43.5	45.34	14.97	2.47	29.83	-	-	P	H
		214.68	31.5	-12	43.5	43.76	15.04	2.53	29.83	-	-	P	H
		751.5	29.45	-16.55	46	26.28	27.85	4.79	29.47	-	-	P	H
		855.1	32.2	-13.8	46	27.27	28.94	5.13	29.14	-	-	P	H
		956.6	33.05	-12.95	46	25.68	30.46	5.53	28.62	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.34	-6.66	40	38.12	24.11	1.05	29.94	-	-	P	V
		49.71	33.6	-6.4	40	47.69	14.46	1.37	29.92	-	-	P	V
		63.21	25.64	-14.36	40	42.34	11.65	1.55	29.9	-	-	P	V
		750.8	30.32	-15.68	46	27.2	27.82	4.78	29.48	-	-	P	V
		849.5	32.59	-13.41	46	27.81	28.85	5.1	29.17	-	-	P	V
		957.3	33.45	-12.55	46	26.01	30.52	5.53	28.61	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												

**Band 4 - 5725~5850MHz****WIFI 802.11ax HE20_Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 149 5745MHz		5631.4	49.73	-18.47	68.2	36.26	34.9	12.47	33.9	100	336	P	H
		5698.4	49.7	-54.32	104.02	36.13	35	12.49	33.92	100	336	P	H
		5718.4	52.45	-57.9	110.35	38.84	35.04	12.5	33.93	100	336	P	H
		5722.8	56.89	-60.29	117.18	43.27	35.05	12.5	33.93	100	336	P	H
	*	5745	103.44	-	-	89.77	35.09	12.51	33.93	100	336	P	H
	*	5745	94.99	-	-	81.32	35.09	12.51	33.93	100	336	A	H
													H
													H
		5603.8	50.89	-17.31	68.2	37.43	34.9	12.46	33.9	214	181	P	V
		5691.8	51.58	-47.57	99.15	38.03	34.98	12.49	33.92	214	181	P	V
		5719.8	56.28	-54.46	110.74	42.67	35.04	12.5	33.93	214	181	P	V
		5724.4	63.51	-57.32	120.83	49.89	35.05	12.5	33.93	214	181	P	V
	*	5745	111.43	-	-	97.76	35.09	12.51	33.93	214	181	P	V
	*	5745	102.96	-	-	89.29	35.09	12.51	33.93	214	181	A	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		5617.2	50.95	-17.25	68.2	37.48	34.9	12.47	33.9	100	337	P	H
		5677.8	49.97	-38.84	88.81	36.44	34.96	12.49	33.92	100	337	P	H
		5702	48.99	-56.77	105.76	35.41	35	12.5	33.92	100	337	P	H
		5720	48.63	-62.17	110.8	35.02	35.04	12.5	33.93	100	337	P	H
	*	5785	102.18	-	-	88.5	35.1	12.52	33.94	100	337	P	H
	*	5785	94.73	-	-	81.05	35.1	12.52	33.94	100	337	A	H
		5853.2	49.33	-65.57	114.9	35.55	35.11	12.63	33.96	100	337	P	H
		5874.2	51.59	-53.83	105.42	37.74	35.15	12.67	33.97	100	337	P	H
		5878	51.85	-51.12	102.97	37.99	35.16	12.67	33.97	100	337	P	H
		5938.6	51.57	-16.63	68.2	37.56	35.2	12.79	33.98	100	337	P	H
													H
													H
		5647.6	50.46	-17.74	68.2	36.99	34.9	12.48	33.91	199	189	P	V
		5698.8	50.1	-54.22	104.32	36.53	35	12.49	33.92	199	189	P	V
		5708.6	49.49	-58.12	107.61	35.89	35.02	12.5	33.92	199	189	P	V
		5721.6	48.32	-66.13	114.45	34.71	35.04	12.5	33.93	199	189	P	V
	*	5785	110.72	-	-	97.04	35.1	12.52	33.94	199	189	P	V
	*	5785	101.92	-	-	88.24	35.1	12.52	33.94	199	189	A	V
		5854.6	51.09	-60.62	111.71	37.31	35.11	12.63	33.96	199	189	P	V
		5870.8	51.58	-54.79	106.37	37.75	35.14	12.66	33.97	199	189	P	V
		5890.2	51.72	-42.2	93.92	37.81	35.18	12.7	33.97	199	189	P	V
		5936.4	51.78	-16.42	68.2	37.78	35.2	12.78	33.98	199	189	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 165 5825MHz	*	5825	102.22	-	-	88.49	35.1	12.58	33.95	100	335	P	H
	*	5825	94.01	-	-	80.28	35.1	12.58	33.95	100	335	A	H
		5850.6	52.35	-68.48	120.83	38.59	35.1	12.62	33.96	100	335	P	H
		5862.4	52.02	-56.71	108.73	38.21	35.12	12.65	33.96	100	335	P	H
		5919.8	51.96	-20.07	72.03	37.99	35.2	12.75	33.98	100	335	P	H
		5945.8	51.44	-16.76	68.2	37.43	35.2	12.8	33.99	100	335	P	H
													H
													H
	*	5825	109.16	-	-	95.43	35.1	12.58	33.95	300	311	P	V
	*	5825	102.16	-	-	88.43	35.1	12.58	33.95	300	311	A	V
		5851.8	55.23	-62.87	118.1	41.46	35.1	12.63	33.96	300	311	P	V
		5860	52.74	-56.66	109.4	38.94	35.12	12.64	33.96	300	311	P	V
		5877.6	52.34	-50.93	103.27	38.48	35.16	12.67	33.97	300	311	P	V
		5945.4	51.41	-16.79	68.2	37.4	35.2	12.8	33.99	300	311	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

[illegible]



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		11570	46.17	-27.83	74	45.14	38.27	19.74	56.98	-	-	P	H
		17355	51.09	-17.11	68.2	41.36	41.51	23.85	55.63	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11570	45.88	-28.12	74	44.85	38.27	19.74	56.98	-	-	P	V
		17355	51.24	-16.96	68.2	41.51	41.51	23.85	55.63	-	-	P	V
													V
													V
													V
													V
													V
													V
													V

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		5601.2	50.06	-18.14	68.2	36.6	34.9	12.46	33.9	345	82	P	H
		5681.6	50.12	-41.5	91.62	36.59	34.96	12.49	33.92	345	82	P	H
		5714	51.04	-58.08	109.12	37.44	35.03	12.5	33.93	345	82	P	H
		5721.4	51.89	-62.1	113.99	38.28	35.04	12.5	33.93	345	82	P	H
	*	5755	97.38	-	-	83.71	35.1	12.51	33.94	345	82	P	H
	*	5755	89.86	-	-	76.19	35.1	12.51	33.94	345	82	A	H
		5851.6	50.65	-67.9	118.55	36.88	35.1	12.63	33.96	345	82	P	H
		5869.4	51.07	-55.7	106.77	37.24	35.14	12.66	33.97	345	82	P	H
		5913.2	51.9	-25	76.9	37.94	35.2	12.74	33.98	345	82	P	H
		5930.4	51.69	-16.51	68.2	37.7	35.2	12.77	33.98	345	82	P	H
													H
													H
		5628.6	51.85	-16.35	68.2	38.38	34.9	12.47	33.9	289	73	P	V
		5666.6	51.07	-29.45	80.52	37.57	34.93	12.48	33.91	289	73	P	V
		5718.8	59.1	-51.36	110.46	45.49	35.04	12.5	33.93	289	73	P	V
		5720.4	60.74	-50.97	111.71	47.13	35.04	12.5	33.93	289	73	P	V
	*	5755	103.75	-	-	90.08	35.1	12.51	33.94	289	73	P	V
	*	5755	95.48	-	-	81.81	35.1	12.51	33.94	289	73	A	V
		5852.6	50.37	-65.9	116.27	36.59	35.11	12.63	33.96	289	73	P	V
		5856.4	52.31	-58.1	110.41	38.53	35.11	12.63	33.96	289	73	P	V
		5888.2	52.08	-43.32	95.4	38.18	35.18	12.69	33.97	289	73	P	V
		5933.8	52.31	-15.89	68.2	38.31	35.2	12.78	33.98	289	73	P	V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 159 5795MHz		5641.2	50.2	-18	68.2	36.74	34.9	12.47	33.91	356	81	P	H
		5653.6	50.32	-20.55	70.87	36.84	34.91	12.48	33.91	356	81	P	H
		5700.6	49.55	-55.82	105.37	35.97	35	12.5	33.92	356	81	P	H
		5723.2	49.01	-69.09	118.1	35.39	35.05	12.5	33.93	356	81	P	H
	*	5795	97.04	-	-	83.36	35.1	12.53	33.95	356	81	P	H
	*	5795	89.58	-	-	75.9	35.1	12.53	33.95	356	81	A	H
		5850.6	50.57	-70.26	120.83	36.81	35.1	12.62	33.96	356	81	P	H
		5868.4	51.25	-55.8	107.05	37.42	35.14	12.66	33.97	356	81	P	H
		5898.8	51.29	-36.26	87.55	37.35	35.2	12.71	33.97	356	81	P	H
		5943.6	52.52	-15.68	68.2	38.51	35.2	12.8	33.99	356	81	P	H
													H
													H
		5602.2	51.04	-17.16	68.2	37.58	34.9	12.46	33.9	400	202	P	V
		5675.8	50.32	-37.01	87.33	36.8	34.95	12.49	33.92	400	202	P	V
		5714.2	50.27	-58.91	109.18	36.67	35.03	12.5	33.93	400	202	P	V
		5721.4	48.97	-65.02	113.99	35.36	35.04	12.5	33.93	400	202	P	V
	*	5795	103.12	-	-	89.44	35.1	12.53	33.95	400	202	P	V
	*	5795	95.33	-	-	81.65	35.1	12.53	33.95	400	202	A	V
		5850.4	50.4	-70.89	121.29	36.64	35.1	12.62	33.96	400	202	P	V
		5861.6	52.06	-56.89	108.95	38.26	35.12	12.64	33.96	400	202	P	V
		5917	51.86	-22.24	74.1	37.89	35.2	12.75	33.98	400	202	P	V
		5941.6	51.28	-16.92	68.2	37.27	35.2	12.79	33.98	400	202	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

[illegible]

[illegible]



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		5633	50.31	-17.89	68.2	36.84	34.9	12.47	33.9	100	337	P	H
		5660.4	50.11	-25.81	75.92	36.62	34.92	12.48	33.91	100	337	P	H
		5711.8	51.08	-57.43	108.51	37.49	35.02	12.5	33.93	100	337	P	H
		5721.8	49.4	-65.5	114.9	35.79	35.04	12.5	33.93	100	337	P	H
	*	5775	90.17	-	-	76.49	35.1	12.52	33.94	100	337	P	H
	*	5775	84.96	-	-	71.28	35.1	12.52	33.94	100	337	A	H
		5854.4	51.06	-61.11	112.17	37.28	35.11	12.63	33.96	100	337	P	H
		5871.4	51.14	-55.07	106.21	37.31	35.14	12.66	33.97	100	337	P	H
		5924.2	51.3	-17.49	68.79	37.32	35.2	12.76	33.98	100	337	P	H
		5949.4	51.52	-16.68	68.2	37.5	35.2	12.81	33.99	100	337	P	H
													H
													H
		5610	50.53	-17.67	68.2	37.07	34.9	12.46	33.9	276	313	P	V
		5691.4	52.33	-46.53	98.86	38.78	34.98	12.49	33.92	276	313	P	V
		5712.6	53.24	-55.49	108.73	39.64	35.03	12.5	33.93	276	313	P	V
		5723.4	55.4	-63.15	118.55	41.78	35.05	12.5	33.93	276	313	P	V
	*	5775	99.09	-	-	85.41	35.1	12.52	33.94	276	313	P	V
	*	5775	92.93	-	-	79.25	35.1	12.52	33.94	276	313	A	V
		5851.4	54.62	-64.39	119.01	40.85	35.1	12.63	33.96	276	313	P	V
		5856.8	53.91	-56.39	110.3	40.12	35.11	12.64	33.96	276	313	P	V
		5923.8	52.46	-16.62	69.08	38.48	35.2	12.76	33.98	276	313	P	V
		5942	51.81	-16.39	68.2	37.8	35.2	12.79	33.98	276	313	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

[illegible]

Emission below 1GHz

5GHz WIFI 802.11ax HE40 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11ax HE40 Full LF		49.71	29.44	-10.56	40	43.53	14.46	1.37	29.92	-	-	P	H
		193.35	32.6	-10.9	43.5	44.99	14.97	2.47	29.83	-	-	P	H
		214.68	31.14	-12.36	43.5	43.4	15.04	2.53	29.83	-	-	P	H
		756.4	30.25	-15.75	46	27.11	27.78	4.81	29.45	-	-	P	H
		850.9	31.54	-14.46	46	26.75	28.85	5.1	29.16	-	-	P	H
		958.7	33.94	-12.06	46	26.37	30.63	5.54	28.6	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	33.66	-6.34	40	38.44	24.11	1.05	29.94	-	-	P	V
		49.44	33.31	-6.69	40	47.3	14.56	1.37	29.92	-	-	P	V
		63.21	25.8	-14.2	40	42.5	11.65	1.55	29.9	-	-	P	V
		793.5	30.13	-15.87	46	26.58	27.88	4.98	29.31	-	-	P	V
		878.9	32.7	-13.3	46	27.51	28.88	5.29	28.98	-	-	P	V
		957.3	33.35	-12.65	46	25.91	30.52	5.53	28.61	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		5650	55.45	-12.75	68.2	54.51	32.22	4.58	35.86	103	308	P	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5650MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Margin(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 68.2(dBμV/m)
 = -12.75 (dB)

Peak measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	23.2~27.6°C
		Relative Humidity :	42.5~74%

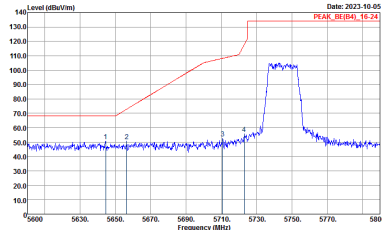
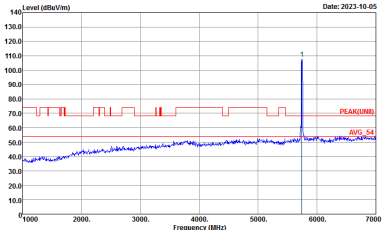
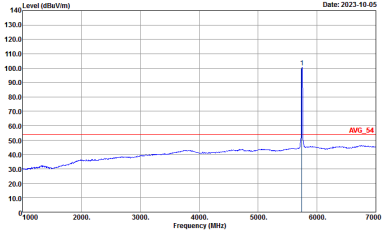
Remark: For Radiated Spurious Emission Test Data, Internal Ant. 1 means Internal Antenna (Right) and Internal Ant. 2 means Internal Antenna (Left).



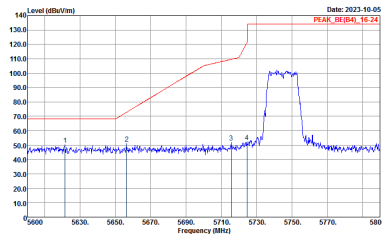
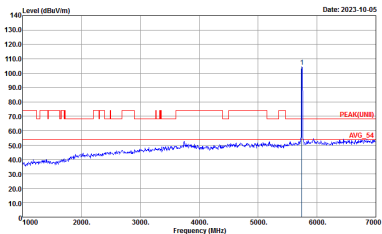
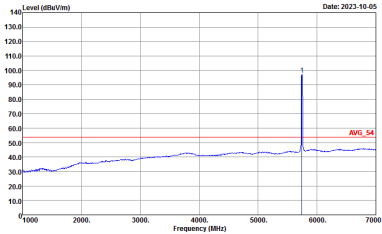
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Band 4 - 5725~5850MHz

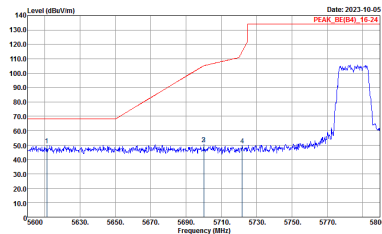
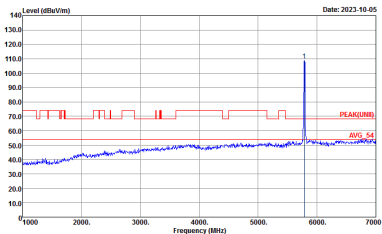
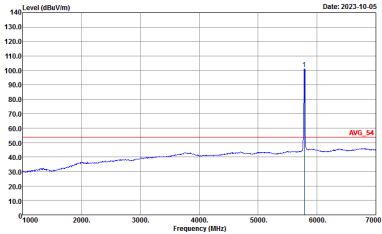
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH02-HY Condition : PEAK_802.11a_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH02-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

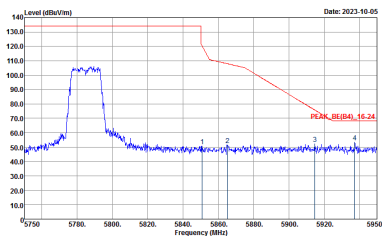


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

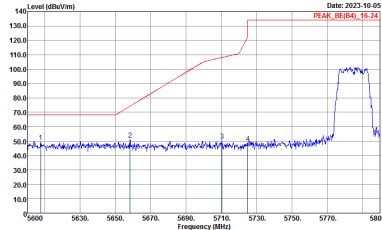
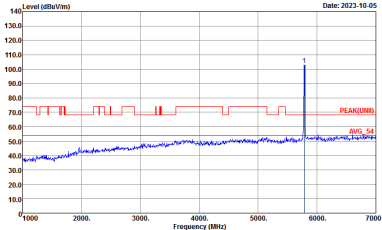
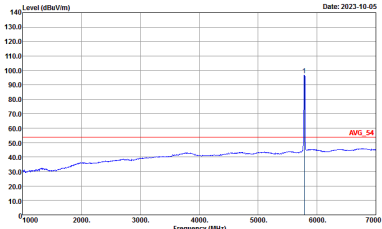


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UN) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

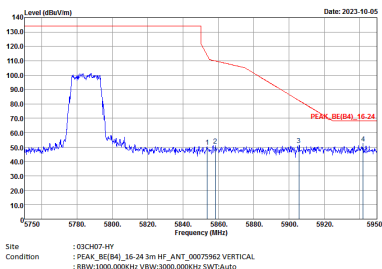


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : : PEAK_B1(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

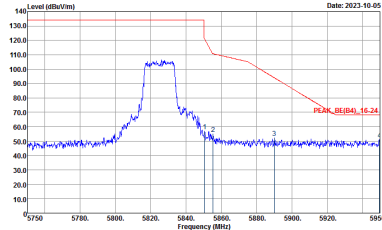
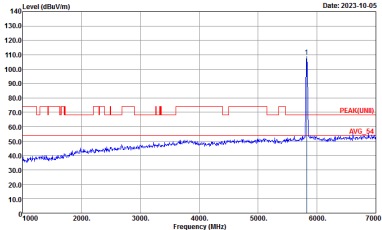
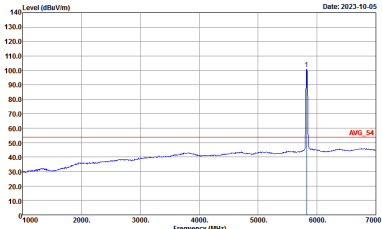


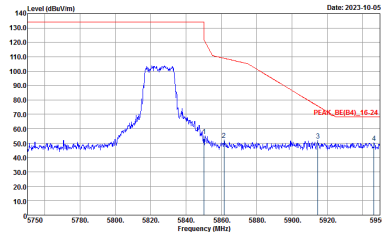
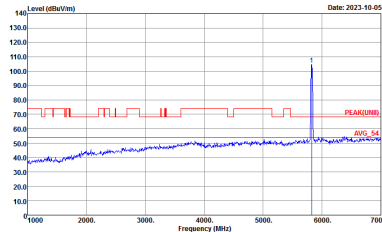
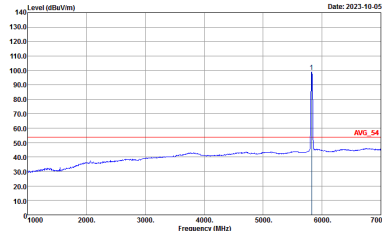
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : : PEAK_B1(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



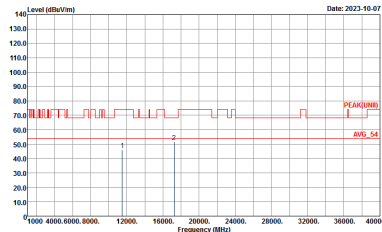
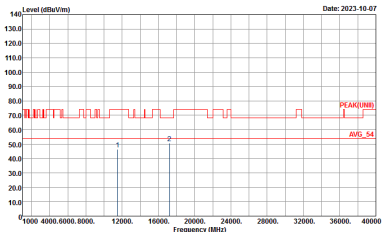
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_B4_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_UWB 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11a_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_FUND 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

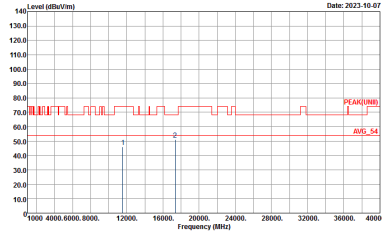
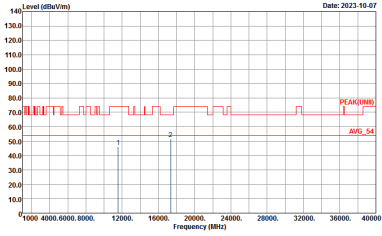


Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 1.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 1.

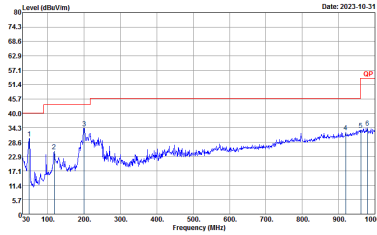
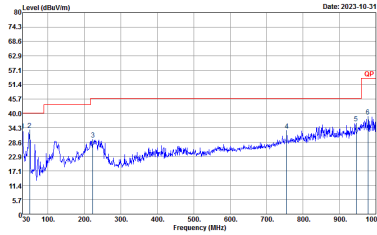


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL :	 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-10-07 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL :	Level (dBuV/m) Date: 2023-10-07 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL :

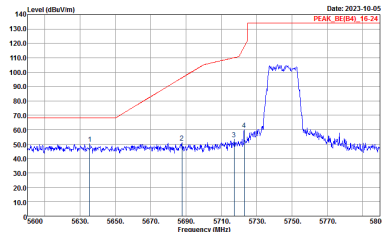
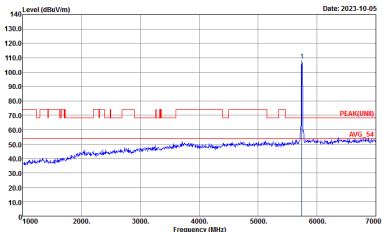
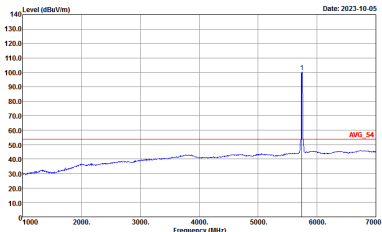
Emission below 1GHz
5GHz WIFI 802.11a (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL 1.	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL 1.

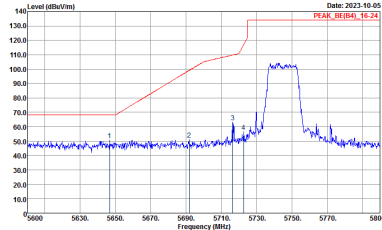
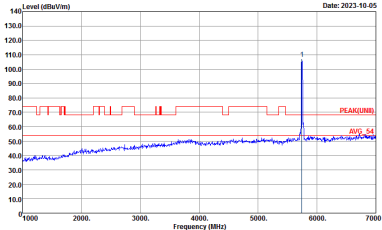
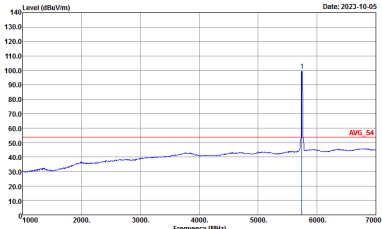


Band 4 - 5725~5850MHz

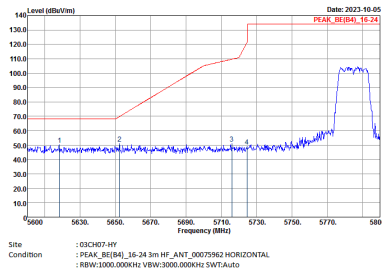
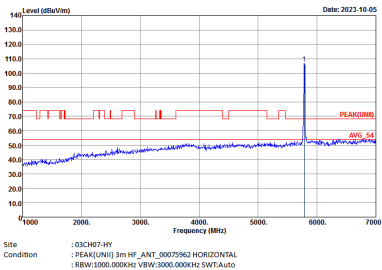
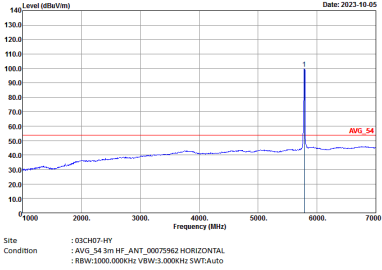
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_14 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

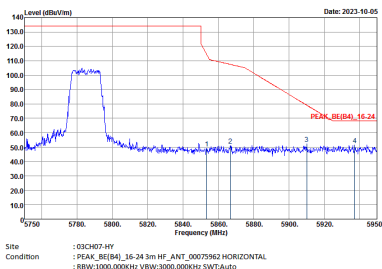


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

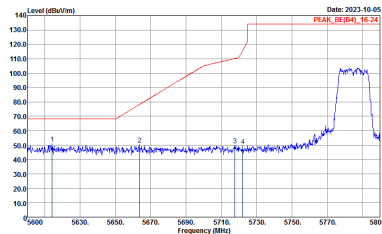
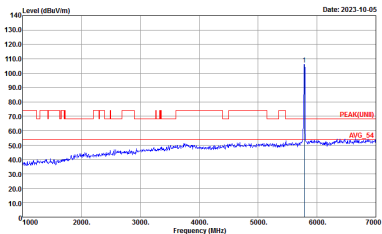
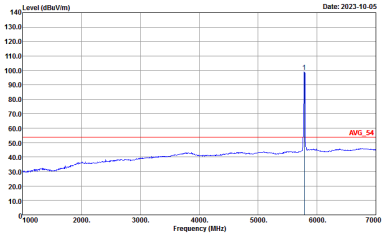


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11a_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_802.11a_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_802.11a_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

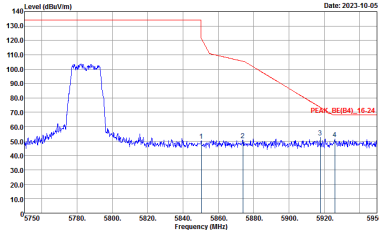


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : PSK_B1(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

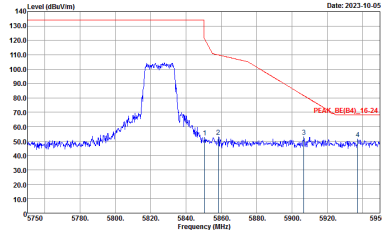
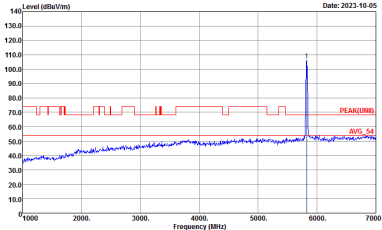
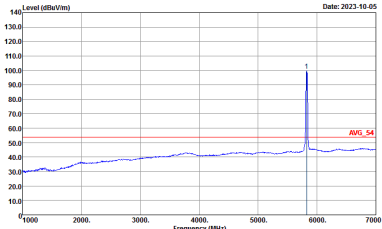


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16-24) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(16-24) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

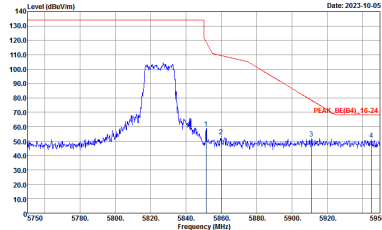
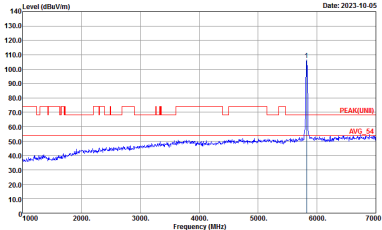
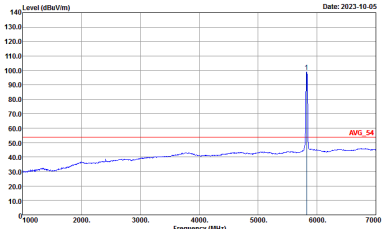


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : : PEAK_802.11a_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_80211a_16-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_80211a_16-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_80211a_16-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

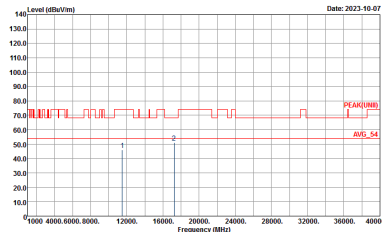
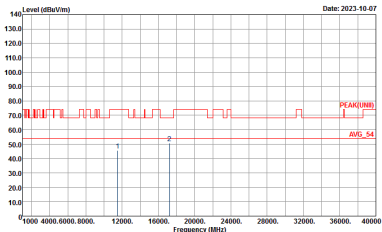


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11a_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto



Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 1.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 1.



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-10-07 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL :	Level (dBuV/m) Date: 2023-10-07 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-10-07 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL :	Level (dBuV/m) Date: 2023-10-07 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL :



Emission below 1GHz

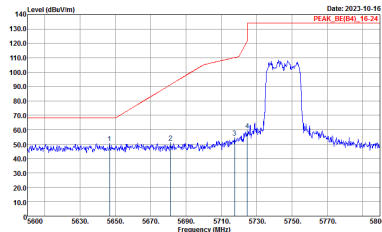
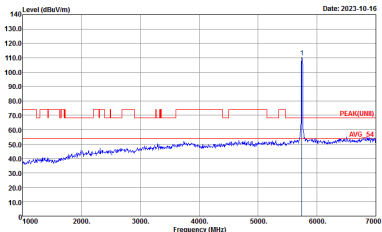
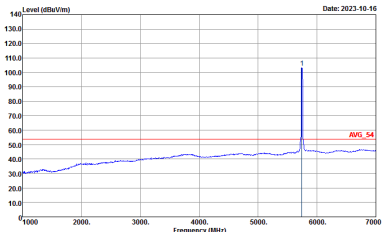
5GHz WIFI 802.11a (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11a LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH02-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL :-	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL :-

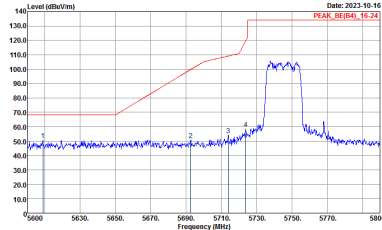
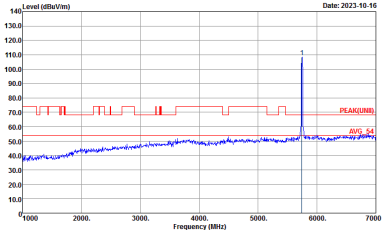
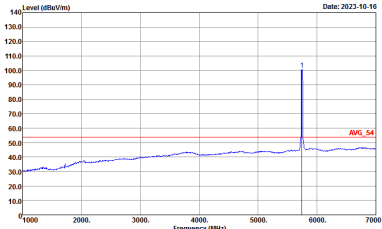


Band 4 - 5725~5850MHz

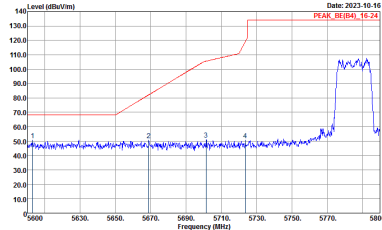
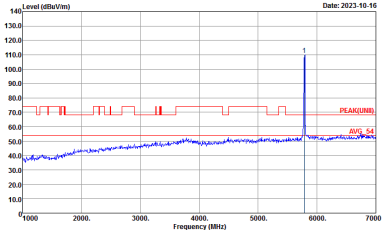
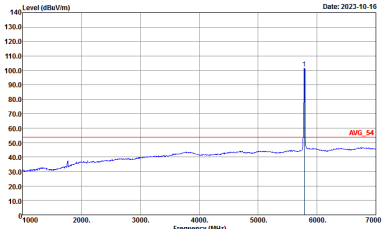
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.600kHz SWT:Auto

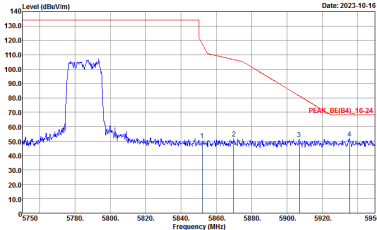


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

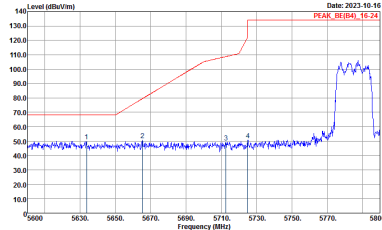
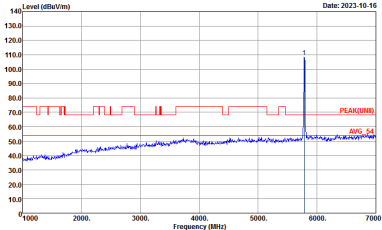
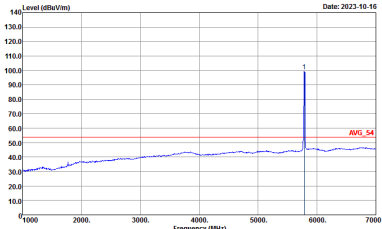


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_REF(16_16_24) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : : PEAK(UNB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

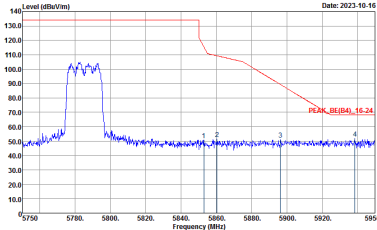


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : PSKAI_812M_15-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

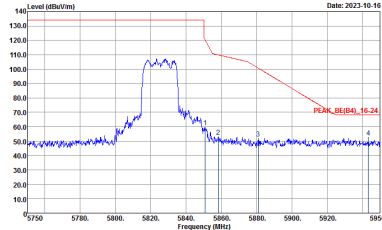
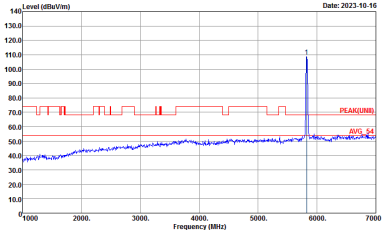
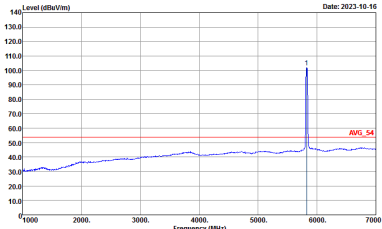


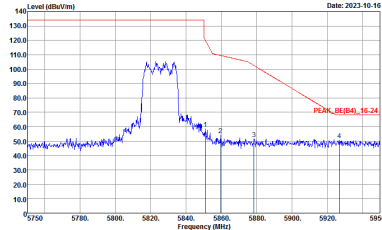
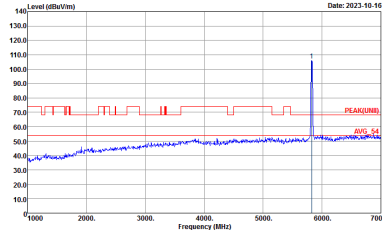
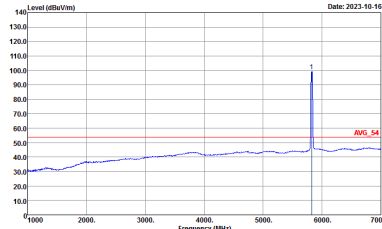
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : : PEAK(UN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : : PEAK_B1(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



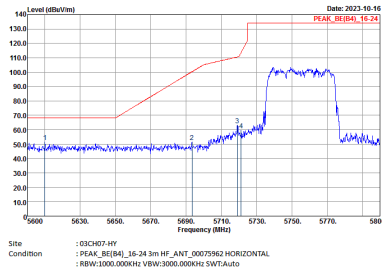
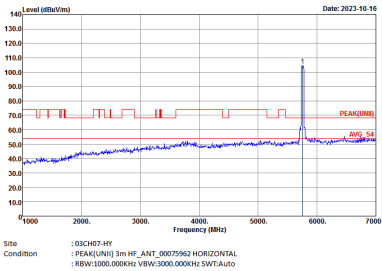
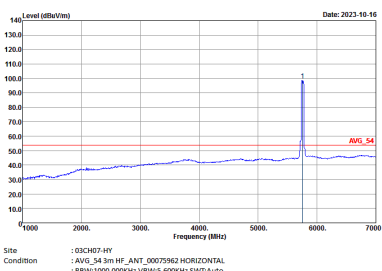
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_RL(04)_15-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_80211ax_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

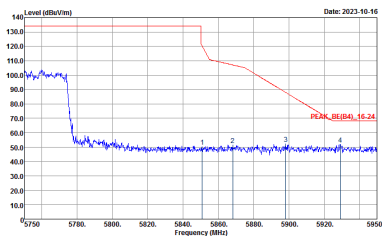


Band 4 5725~5850MHz

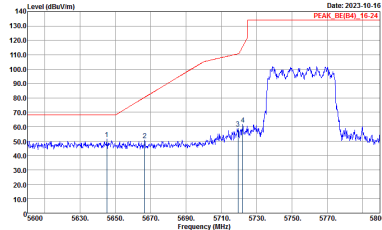
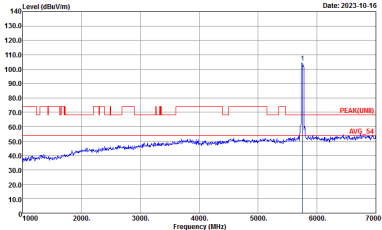
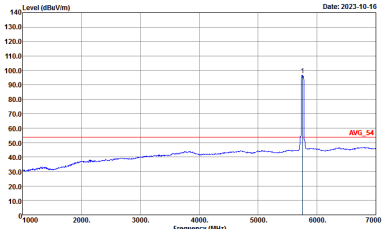
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto

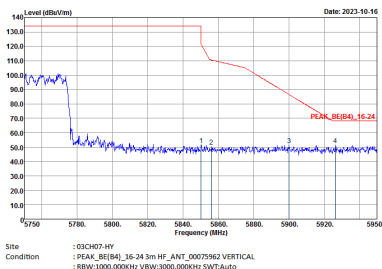


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : PEAK_B1(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

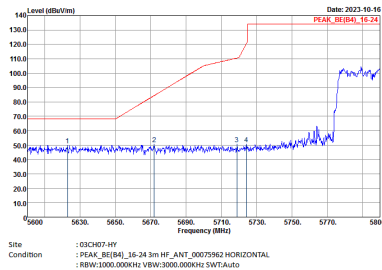
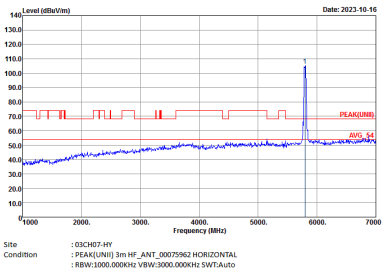
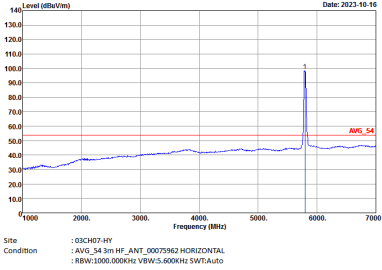


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

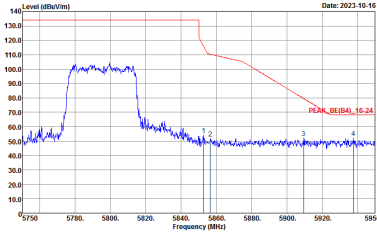


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		Left blank

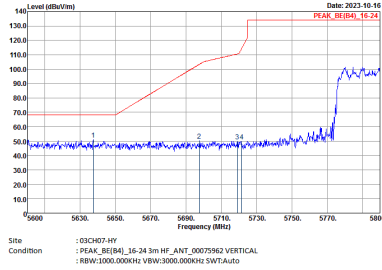
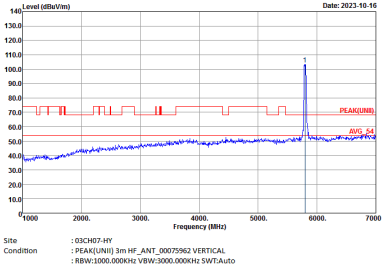
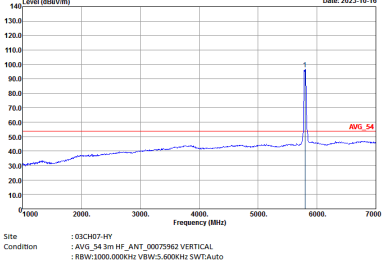


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16)_16-24 : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.000kHz SWT:Auto

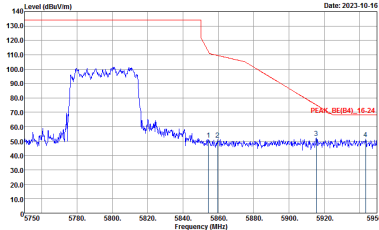


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : PEAK_B1(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH07-HY : PSK(16QAM)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site Condition : 03CH07-HY : PSK(16QAM)_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site Condition : 03CH07-HY : AVG_16 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

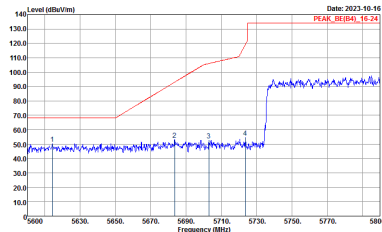
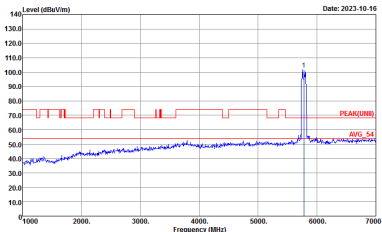
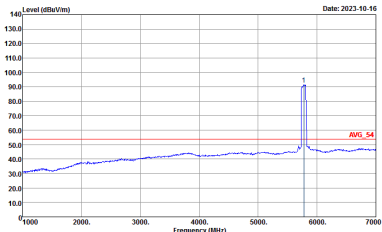


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : : PSKAI_812M_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

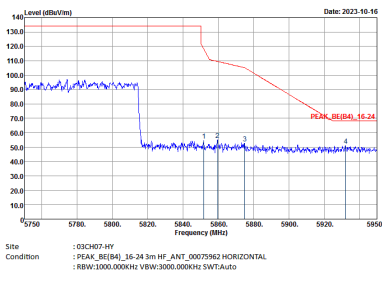


Band 4 5725~5850MHz

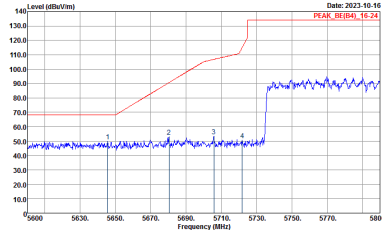
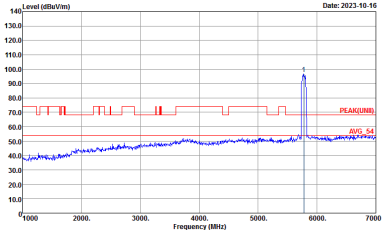
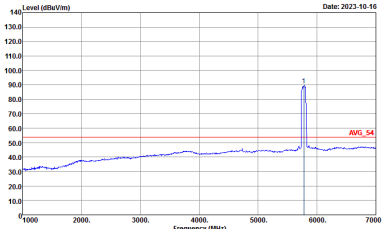
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(155, 15.2) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto

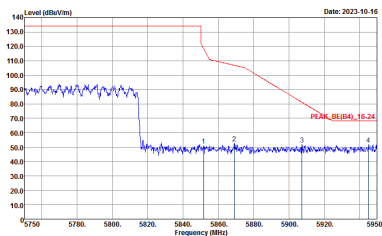


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : PEAK_B1(B4)_15-24 3m HF_ANT_00075963 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16-24) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(16-24) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3.100kHz SWT:Auto

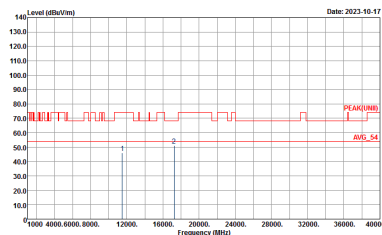
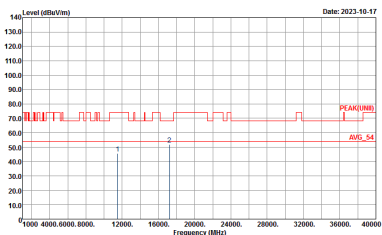


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : : PSKAI_812M_15-24 3m HF_ANT_00075963 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



Band 4 - 5725~5850MHz

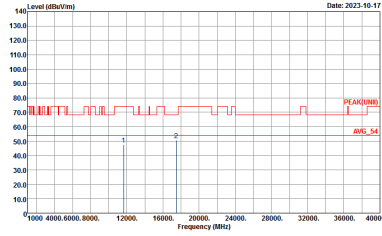
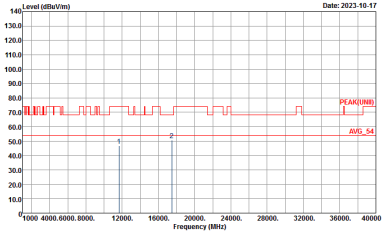
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 1.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 1.



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-10-17 Frequency (MHz) Site : 03CH07-HY Condition : PEAK (UNII) 3m HF_ANT_00075962 HORIZONTAL :	Level (dBuV/m) Date: 2023-10-17 Frequency (MHz) Site : 03CH07-HY Condition : PEAK (UNII) 3m HF_ANT_00075962 VERTICAL :



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL :	 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL :

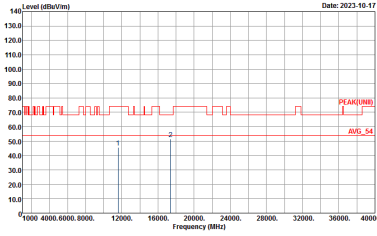
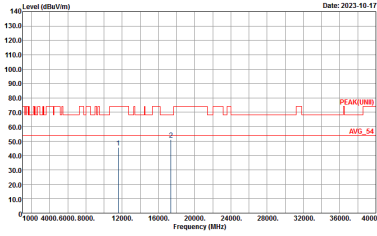


Band 4 5725~5850MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH02-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 1.	Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 1.

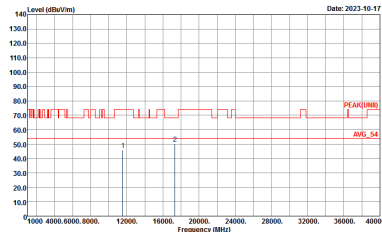
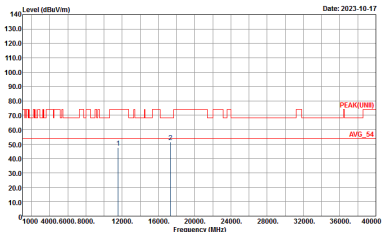


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK (UNITS) 3m HF_ANT_00075962 HORIZONTAL :	 Site : 03CH07-HY Condition : PEAK (UNITS) 3m HF_ANT_00075962 VERTICAL :



Band 4 5725~5850MHz

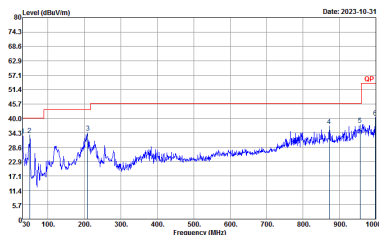
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 1.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 1.



Emission below 1GHz

5GHz WIFI 802.11ax HE20 Full (LF @ 3m)

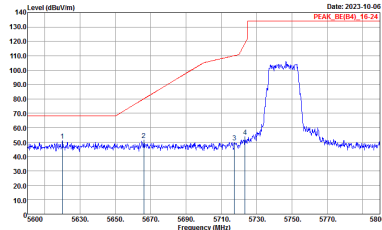
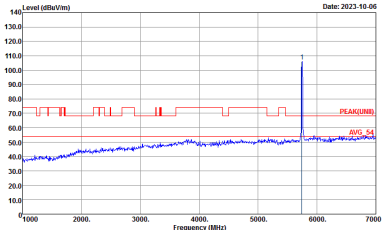
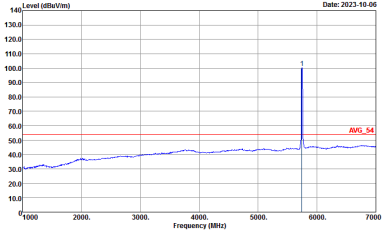
WIFI	5GHz WIFI	
ANT	802.11ax HE20 Full LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m (F-ANT-35419)(6) HORIZONTAL :-	 Site : 03CH07-HY Condition : QP 3m (F-ANT-35419)(6) VERTICAL :-



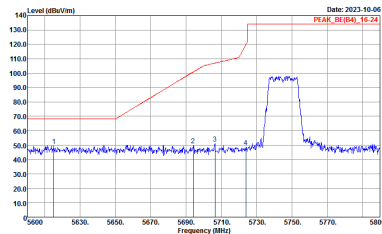
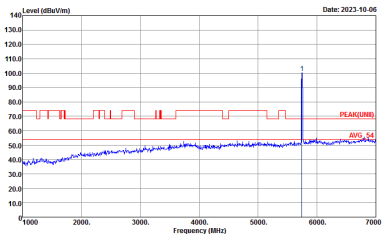
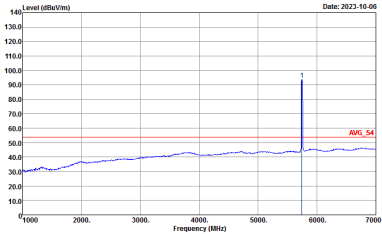
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Band 4 - 5725~5850MHz

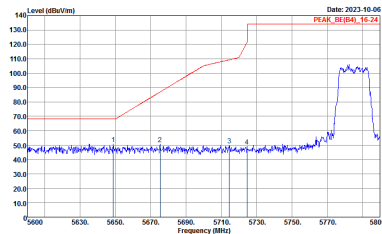
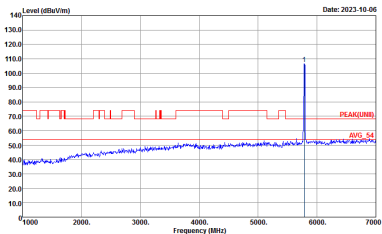
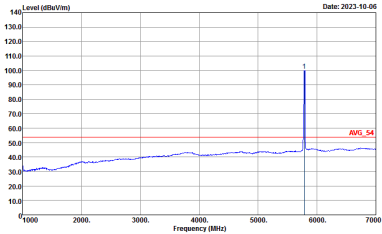
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH02-HY Condition : PEAK_REF(4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH02-HY Condition : PEAK(149) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH02-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

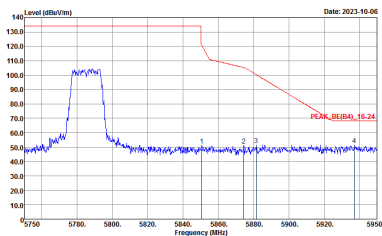


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_80211a_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

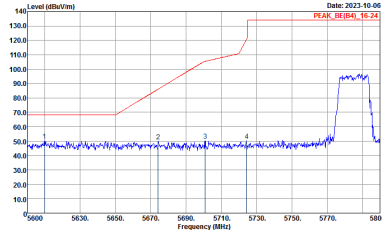
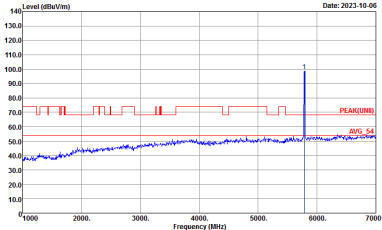
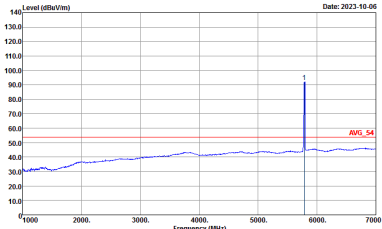


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_REF(16_16_24) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : : PEAK(UN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

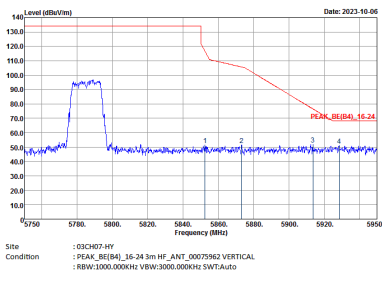


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : : PSKAI_80211a_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

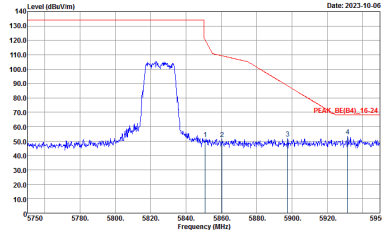
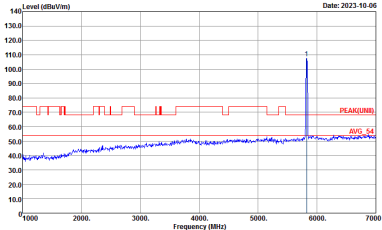
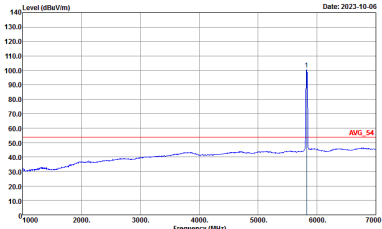


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_16 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

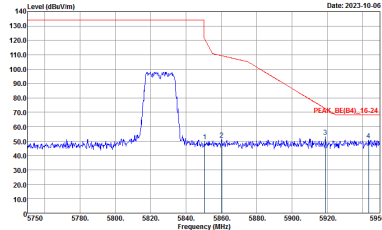
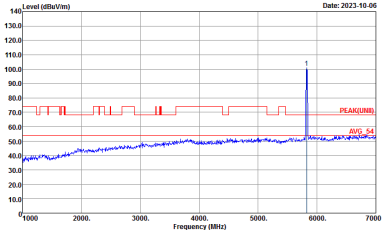
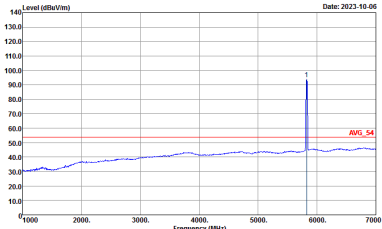


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak		Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_B4_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_UWB 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

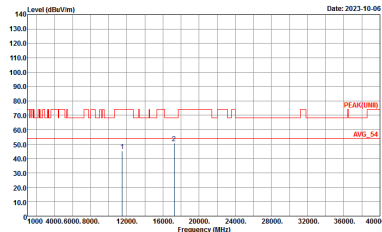
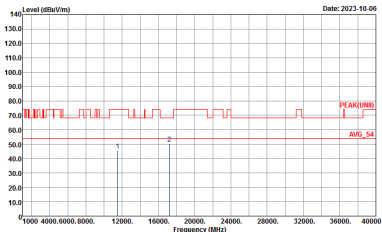


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11a_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_802.11a_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto



Band 4 - 5725~5850MHz

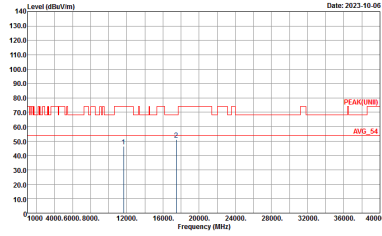
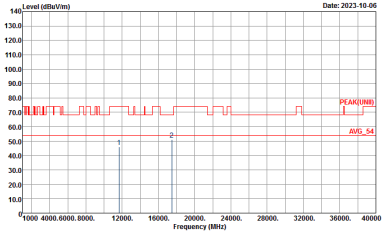
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 1.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 1.



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-10-06 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL :	Level (dBuV/m) Date: 2023-10-06 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL :

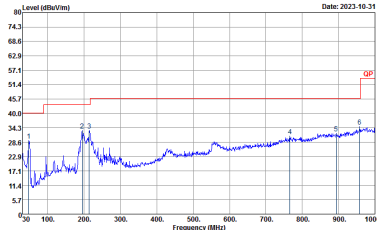
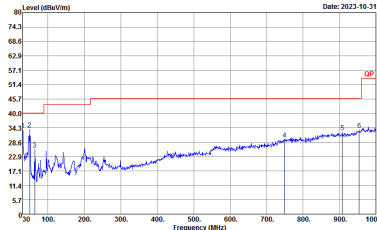


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL :	 Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL :



Emission below 1GHz

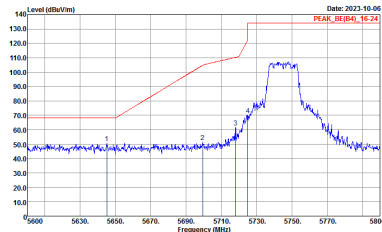
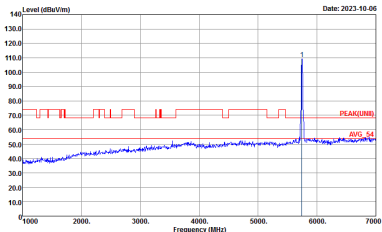
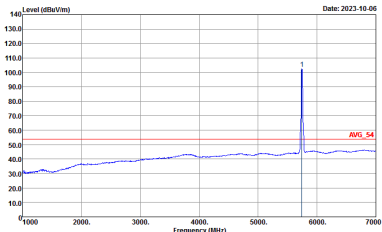
5GHz WIFI 802.11a (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11a LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35415(6)_H HORIZONTAL :-	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35415(6)_H VERTICAL :-

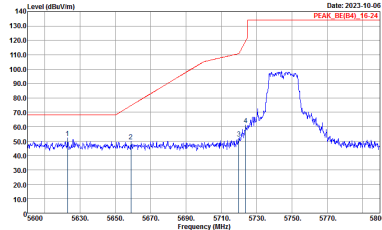
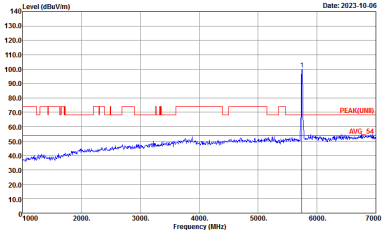
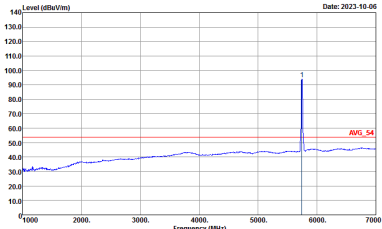


Band 4 - 5725~5850MHz

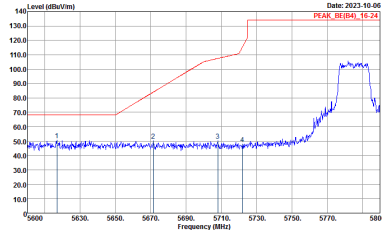
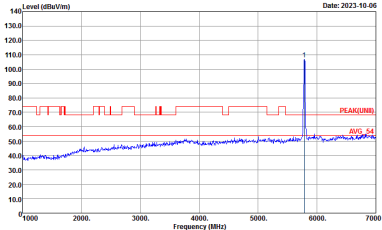
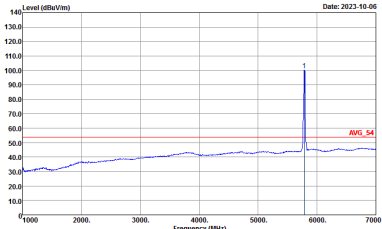
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_14 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

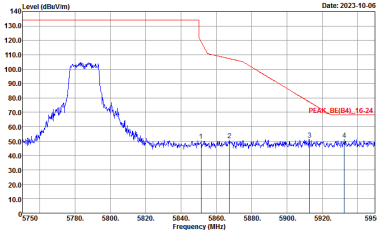


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11a_149_3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUND) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

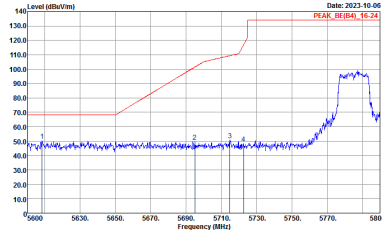
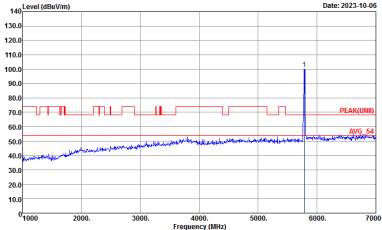
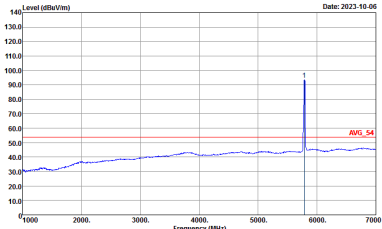


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

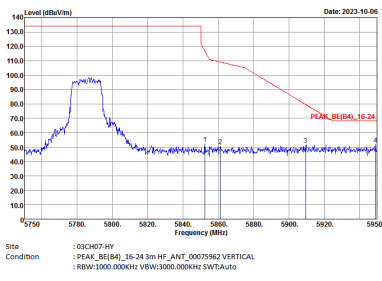


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : : PEAK_BURST_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

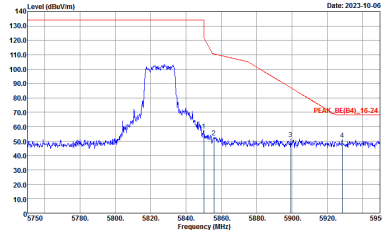
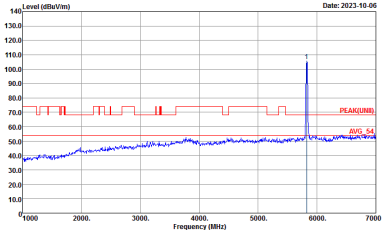
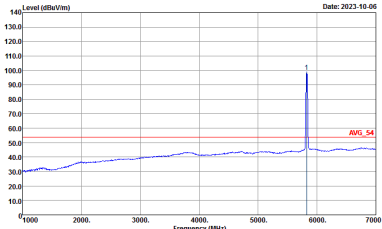


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(16)_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_16 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

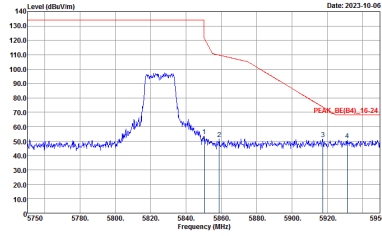
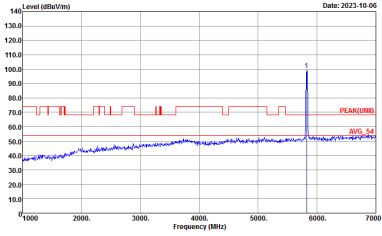
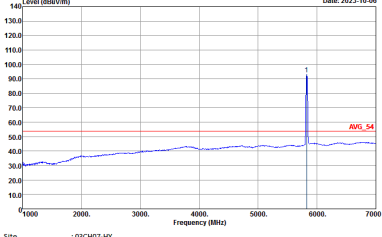


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
2	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : PSKAI_802.11a_15-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_B1(04)_15-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_U(01) 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

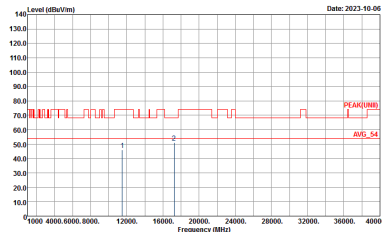
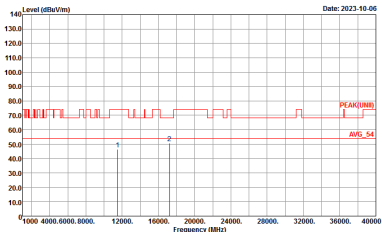


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_80211a_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_80211a_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_80211a_16-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto



Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 1. 2.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 1. 2.



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-10-06 Frequency (MHz) Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 HORIZONTAL :	Level (dBuV/m) Date: 2023-10-06 Frequency (MHz) Site : 03CH07-HY Condition : PEAK(AVG) 3m HF_ANT_00075962 VERTICAL :

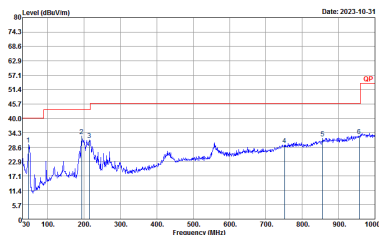
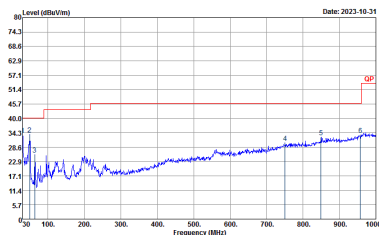


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2023-10-06 Site : 03CH07-HY Condition : : PEAK(U/NII) 3m HF_ANT_00075962 HORIZONTAL : :	Level (dBuV/m) Date: 2023-10-06 Site : 03CH07-HY Condition : : PEAK(U/NII) 3m HF_ANT_00075962 VERTICAL : :



Emission below 1GHz

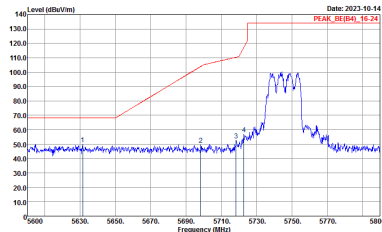
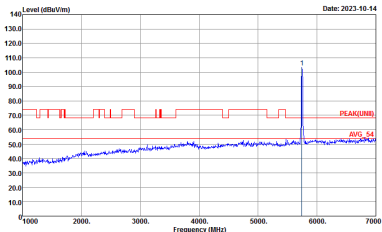
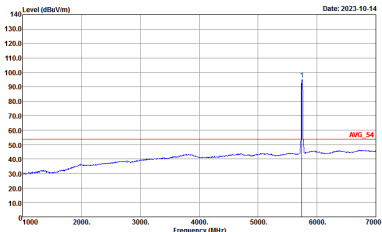
5GHz WIFI 802.11a (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11a LF	
2	Horizontal	Vertical
QP / Peak	 Site : 03CH02-HY Condition : QP 3m LF-ANT-35415(6)_H HORIZONTAL :-	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35415(6)_H VERTICAL :-

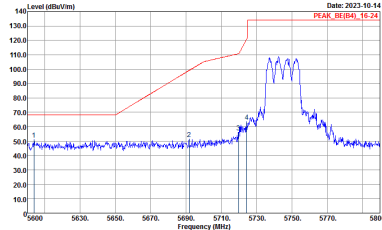
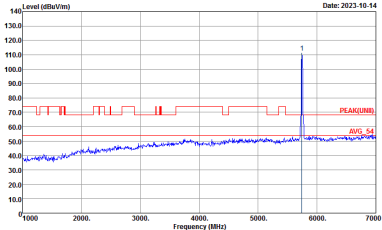
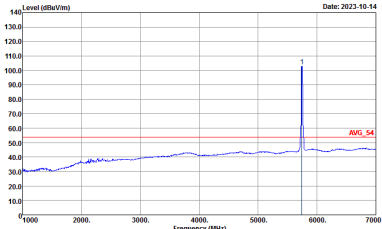


Band 4 - 5725~5850MHz

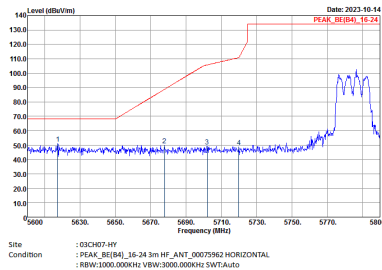
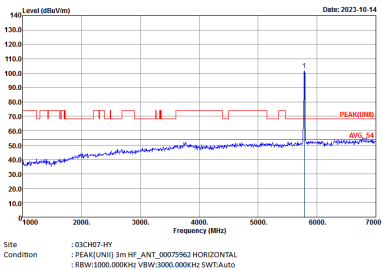
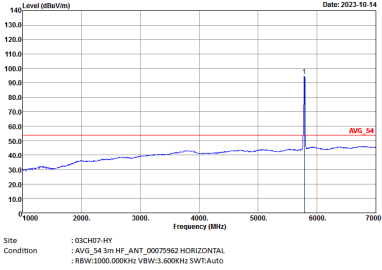
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_16 (149, 15.2) : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_16 (149, 15.2) : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto

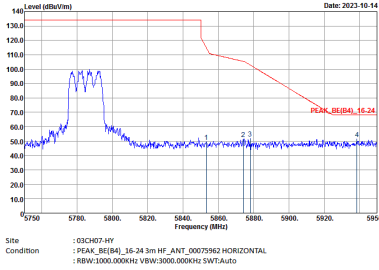


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11ax HE20 Full CH149 5745MHz VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_802.11ax HE20 Full CH149 5745MHz FUNDAMENTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_802.11ax HE20 Full CH149 5745MHz FUNDAMENTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

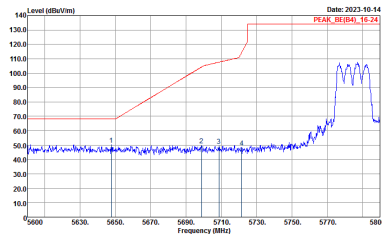
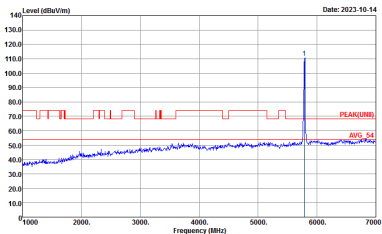
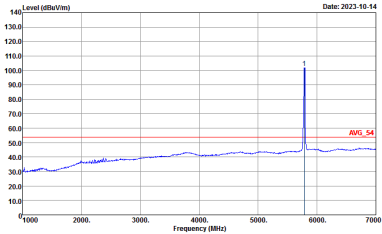


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11ax_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_802.11ax_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_802.11ax_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto

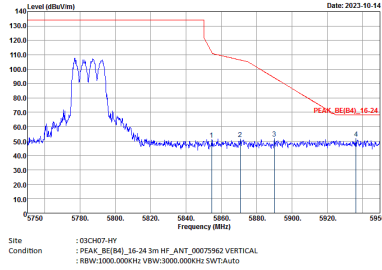


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : : PSKAI_80211ax_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

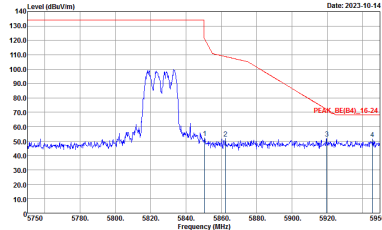
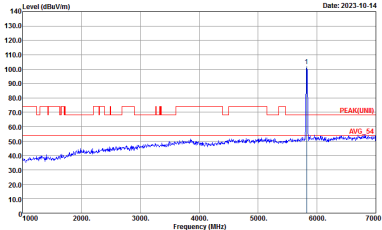
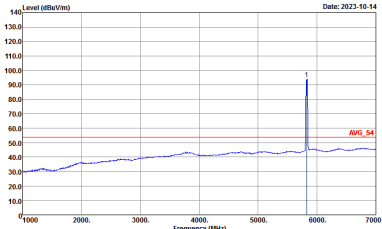


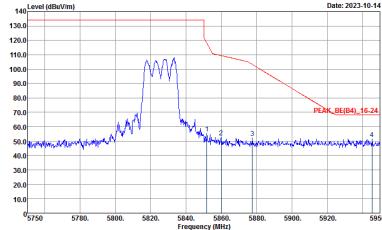
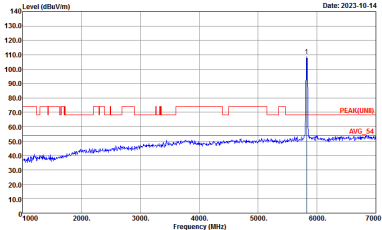
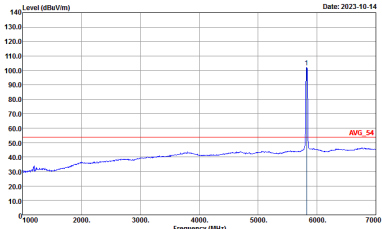
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UN) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : : PSKAI_8ICBAI_16-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



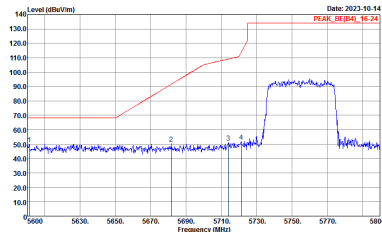
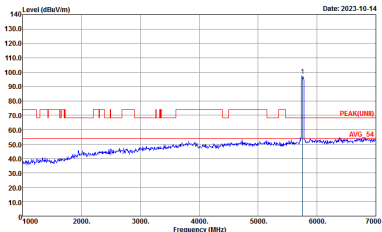
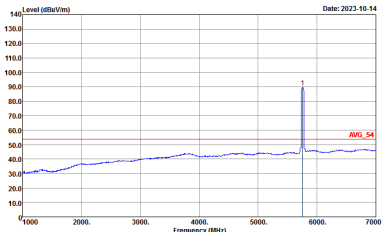
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_802.11ax HE20 Full CH165 5825MHz HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK_FUND 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_RL(04)_15-24 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(URB) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

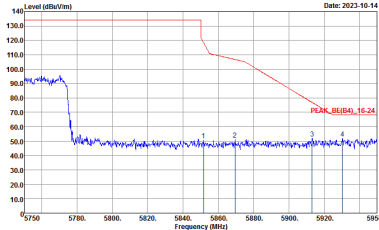


Band 4 5725~5850MHz

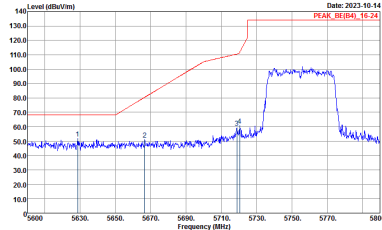
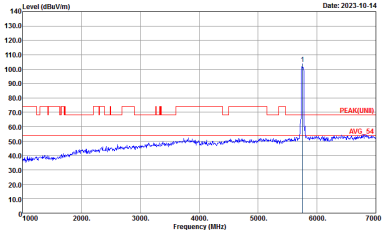
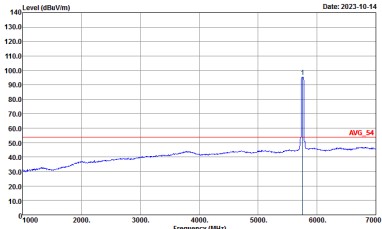
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(FUN1) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_14 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.600kHz SWT:Auto

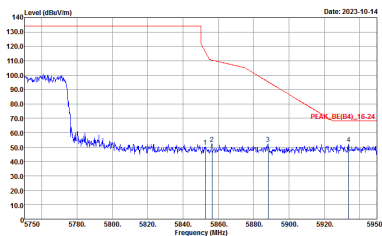


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : PSKAI_812M_15-24 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

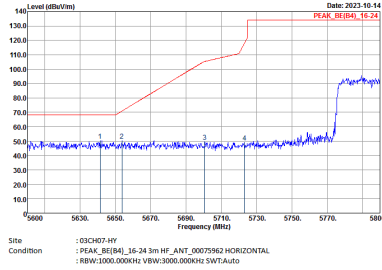
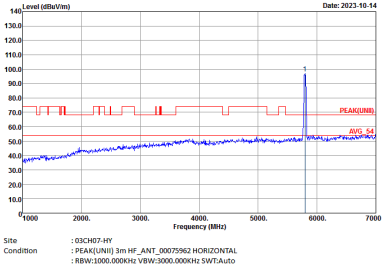
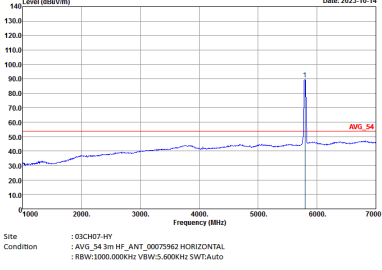


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto

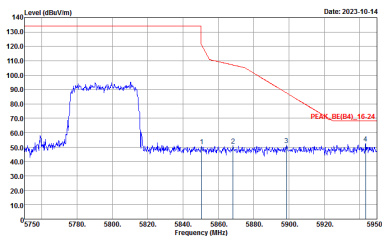


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : : PSKAI_80211ax_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

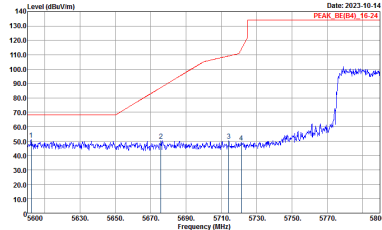
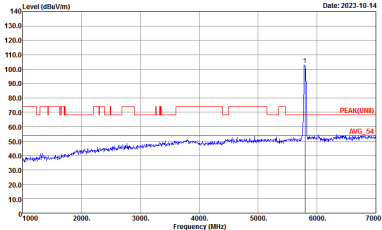
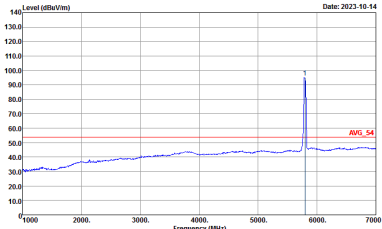


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_REF(16-24) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : : AVG_S4 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.000kHz SWT:Auto

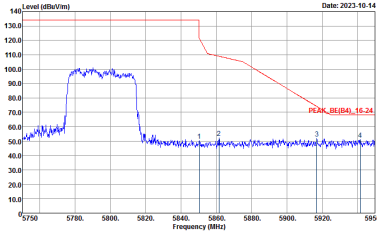


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : : PSKAI_80211ax_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:5.000kHz SWT:Auto

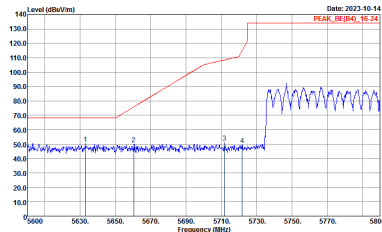
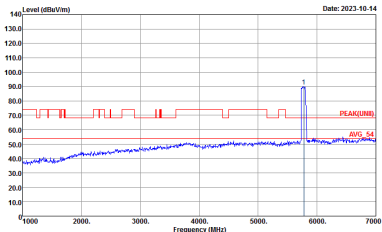
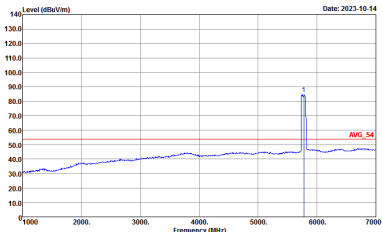


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : : PSKAI_812M_15-24 3m HF_ANT_00075952 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

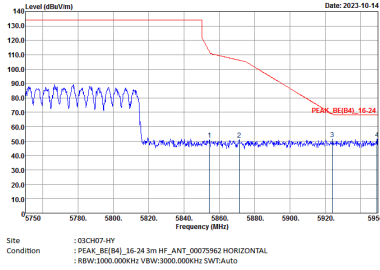


Band 4 5725~5850MHz

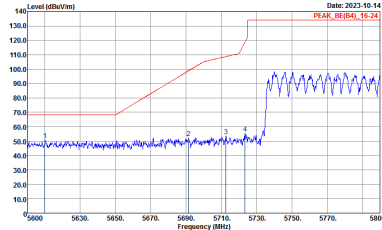
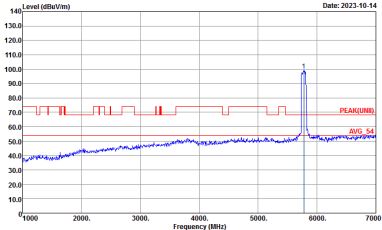
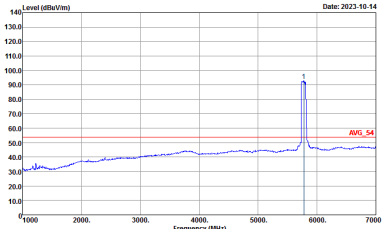
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_14 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:5.100kHz SWT:Auto

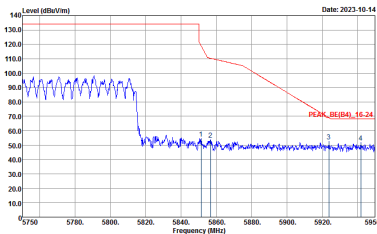


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH07-HY Condition : : PEAK_B1(B4)_15-24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_REF(16_16_24) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	Left blank	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3.100kHz SWT:Auto

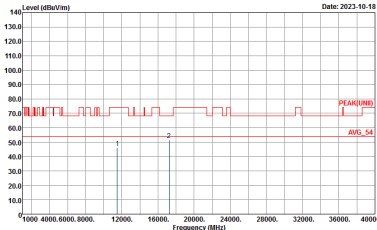
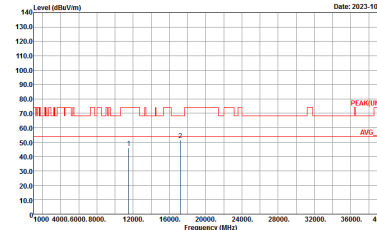


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 Site : 09CH07-HY Condition : : PEAK_B1(B4)_15-24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank

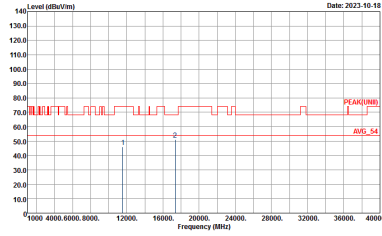
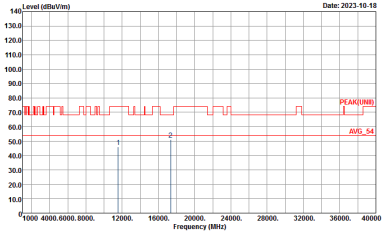


Band 4 - 5725~5850MHz

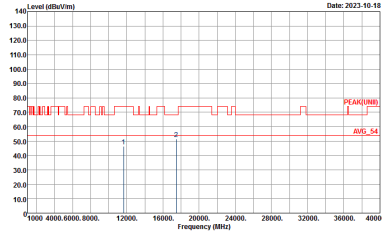
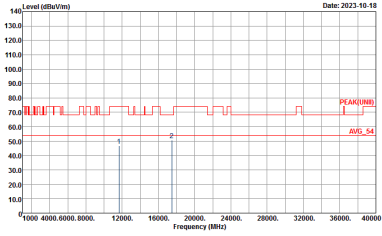
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 HORIZONTAL 1.	 Site : 03CH07-HY Condition : PEAK(UNB) 3m HF_ANT_00075962 VERTICAL 1.

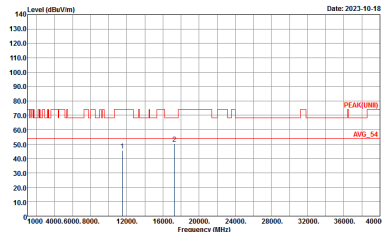
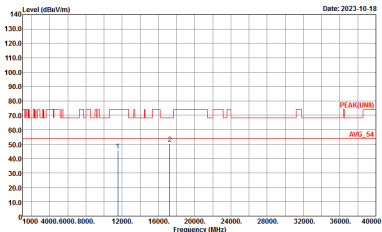


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : :PEAK(U/NII) 3m HF_ANT_00075962 HORIZONTAL : :	 Site : 03CH07-HY Condition : :PEAK(U/NII) 3m HF_ANT_00075962 VERTICAL : :

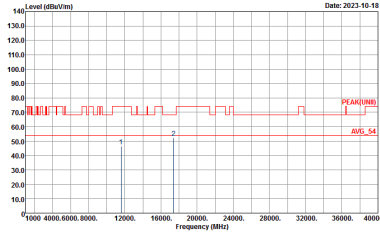
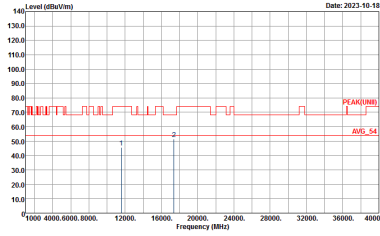


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : :PEAK(U/NII) 3m HF_ANT_00075962 HORIZONTAL : :	 Site : 03CH07-HY Condition : :PEAK(U/NII) 3m HF_ANT_00075962 VERTICAL : :

Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 1.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 1.

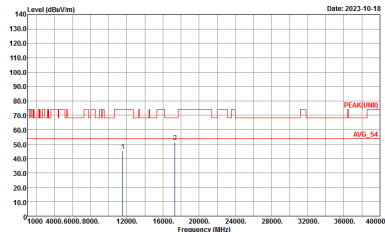
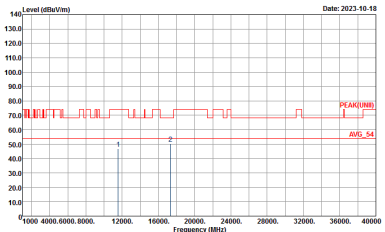


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : :PEAK(U/NII) 3m HF_ANT_00075962 HORIZONTAL :.	 Site : 03CH07-HY Condition : :PEAK(U/NII) 3m HF_ANT_00075962 VERTICAL :.

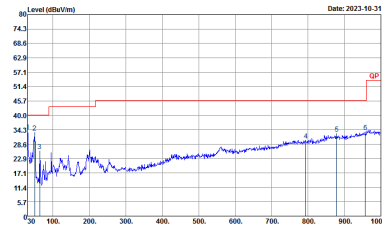


Band 4 5725~5850MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL 1.	 Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL 1.

Emission below 1GHz
5GHz WIFI 802.11ax HE40 Full (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11ax HE40 Full LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH02-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL :-	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H VERTICAL :-