

FCC Test Report

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Test Model: MT7922A12L

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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P21060023-6	Original release.	Sep. 07, 2021

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7922A12L

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: Jun. 28 ~ Aug. 15, 2021

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Pettie Chen, **Date:** Sep. 07, 2021
Pettie Chen / Senior Specialist

Approved by : Bruce Chen, **Date:** Sep. 07, 2021
Bruce Chen / Senior Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(9)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -12.85dB at 2.62600MHz.
15.407(b)(6)(9)	Radiated Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -0.80dB at 7125.00MHz.
15.407(b)(7)	In-Band Emission (Mask)	Pass	Meet the requirement of limit.
15.407(a)(6)	Max Average Transmit Power	Pass	Meet the requirement of limit.
15.407(a)(10)	Emission Bandwidth Measurement	Pass	Meet the requirement of limit.
15.407(a)(6)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407 (d)(6)	Contention-based Protocol.	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(a)(7)(8)	Dual Client- Proper Power Adjustment	N/A	Device associates with low power indoor AP only.
15.407(d)(5)	Operational restrictions for 6 GHz U-NII devices	Pass	Declaration by applicant
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

Note:

Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7922A12L
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode only
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps
Operating Frequency	5.955 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz
Number of Channel	802.11a/ax (HE20): 59 802.11ax (HE40): 29 802.11ax (HE80): 14 802.11ax (HE160): 7
Output Power	5.955 ~ 6.415GHz: 18.796 mW (EIRP: 17.50 dBm / 56.234 mW) 6.435 ~ 6.525GHz: 17.291 mW (EIRP: 16.67 dBm / 46.452 mW) 6.525 ~ 6.855GHz: 18.317 mW (EIRP: 17.24 dBm / 52.966 mW) 6.875 ~ 7.115GHz: 17.531 mW (EIRP: 16.53 dBm / 44.978 mW)
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. There are Bluetooth and WLAN (2.4GHz & 5GHz & 6GHz) technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5GHz)	Bluetooth
2	WLAN (6GHz)	Bluetooth

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The antennas provided to the EUT, please refer to the following table:

Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	Chain0	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA340718EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200
2	Chain0	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200
	Chain1	PSA	RFMTA311020EMMB301	1.71 4.82 4.76 4.29 4.61 4.09	2.4~2.4835 5.15~5.85 5.925~6.425 6.425~6.525 6.525~6.875 6.875~7.125	PIFA	i-pex(MHF)	200

Note: Max. gain was selected for the final test.

4. The EUT incorporates a MIMO function:

6GHz Band		
Modulation Mode	TX & RX Configuration	
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11ax (RU26/52/106/242/484/996/1992)	2TX	2RX

Note: For Partial RU, after pre-tested, only the worse cases were chosen for final test and presented in the test report. (Final test mode refer section 3.2.1)

5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
6. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Description of Test Modes

FOR 5925 ~ 6425MHz (U-NII-5 band)

24 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5995 MHz	13	6015 MHz
17	6035 MHz	21	6055 MHz	25	6075 MHz	29	6095 MHz
33	6115 MHz	37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz	61	6255 MHz
65	6275 MHz	69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz	93	6415 MHz

12 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

3 channels are provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz

FOR 6425 ~ 6525MHz (U-NII-6 band)

5 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

3 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445 MHz	107	6485 MHz	*115	6525 MHz

2 channel are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
103	6465 MHz	*119	6545 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
*111	6505 MHz

FOR 6525 ~ 6875MHz (U-NII-7 band)

18 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz	*185	6875 MHz				

9 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz
*187	6885 MHz						

4 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
135	6625 MHz	151	6705 MHz	167	6785 MHz	*183	6865 MHz

2 channels are provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency
143	6665 MHz	*175	6825 MHz

FOR 6875 ~ 7125MHz (U-NII-8 band):

12 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
189	6895 MHz	193	6915 MHz	197	6935 MHz	201	6955 MHz
205	6975 MHz	209	6995 MHz	213	7015 MHz	217	7035 MHz
221	7055 MHz	225	7075 MHz	229	7095 MHz	233	7115 MHz

5 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
195	6925 MHz	203	6965 MHz	211	7005 MHz
219	7045 MHz	227	7085 MHz		

2 channel is provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
207	6985 MHz

Note: * mean this's straddle channel.

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To						Description
	RE $\geq$ 1G	RE<1G	IBE	PLC	CBP	APCM	
-	√	√	√	√	√	√	-

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz
RE<1G: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission
APCM: Antenna Port Conducted Measurement
IBE: In-Band Emission (MASK)
CBP:Contention Based Protocol

Note: The EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane

Radiated Emission Measurement (Above 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDM	BPSK	6Mb/s
	6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	6Mb/s
	6525-6855	117 to 185	117, 153, 181, 185	OFDM	BPSK	MCS0
	6875-7115	189 to 233	213, 233	OFDM	BPSK	6Mb/s
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	117, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	189 to 233	213, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6435-6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525-6855	123 to 187	123, 155, 179, 187	OFDMA	BPSK	MCS0
	6875-7115	195 to 227	211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6435-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6525-6855	135 to 183	135, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7115	199 to 215	199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6525-6855	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

Preamble (MHz)	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
							RU26	RU52	RU106
20	5955-6415	1 to 93	1, 93	OFDMA	BPSK	MCS0	26/0 26/8	52/37 52/40	106/53 106/54
	6435-6525	97 to 113	97	OFDMA	BPSK	MCS0	26/0	52/37	106/53
	6525-6855	117 to 181	117 181	OFDMA	BPSK	MCS0	26/0 26/8	52/37 52/40	106/53 106/54
	6875-7115	185 to 233	213 233	OFDMA	BPSK	MCS0	26/8	52/40	106/54

Radiated Emission Measurement (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE80)	5955-6415 6435-6525 6525-6855 6875-7115	7 to 87 103 to 119 119 to 167 183 to 215	167	OFDMA	BPSK	MCS0

In-Band Emission (MASK) Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5955-6415	1 to 93	1, 45, 93	OFDM	BPSK	6Mb/s
	6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	6Mb/s
	6525-6855	117 to 185	117, 153, 181, 185	OFDM	BPSK	MCS0
	6875-7115	189 to 233	213, 233	OFDM	BPSK	6Mb/s
802.11ax (HE20)	5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	117, 149, 153, 181, 185	OFDMA	BPSK	MCS0
	6875-7115	189 to 233	213, 233	OFDMA	BPSK	MCS0
802.11ax (HE40)	5955-6415	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0
	6435-6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0
	6525-6855	123 to 187	123, 155, 179, 187	OFDMA	BPSK	MCS0
	6875-7115	195 to 227	211, 227	OFDMA	BPSK	MCS0
802.11ax (HE80)	5955-6415	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0
	6435-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0
	6525-6855	135 to 183	135, 151, 167, 183	OFDMA	BPSK	MCS0
	6875-7115	199 to 215	199, 215	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15, 47, 79	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6525-6855	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6875-7115	207	207	OFDMA	BPSK	MCS0

Power Line Conducted Emission Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE80)	5955-6415 6435-6525 6525-6855 6875-7115	7 to 87 103 to 119 119 to 183 183 to 215	167	OFDMA	BPSK	MCS0

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, RU configurations and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode		FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter		
802.11a		5955-6415	1 to 93	1, 45, 93	OFDM	BPSK	6Mb/s		
		6435-6525	97 to 113	97, 105, 113	OFDM	BPSK	6Mb/s		
		6525-6855	117 to 185	117, 153, 181, 185	OFDM	BPSK	MCS0		
		6875-7115	189 to 233	213, 233	OFDM	BPSK	6Mb/s		
802.11ax (HE20)		5955-6415	1 to 93	1, 45, 93	OFDMA	BPSK	MCS0		
		6435-6525	97 to 113	97, 105, 113	OFDMA	BPSK	MCS0		
		6525-6855	117 to 185	117, 153, 181	OFDMA	BPSK	MCS0		
		6875-7115	189 to 233	213, 233	OFDMA	BPSK	MCS0		
802.11ax (HE40)		5955-6415	3 to 91	3, 43, 91	OFDMA	BPSK	MCS0		
		6435-6525	99 to 115	99, 107, 115	OFDMA	BPSK	MCS0		
		6525-6855	123 to 187	123, 155, 179, 187	OFDMA	BPSK	MCS0		
		6875-7115	195 to 227	211, 227	OFDMA	BPSK	MCS0		
802.11ax (HE80)		5955-6415	7 to 87	7, 39, 87	OFDMA	BPSK	MCS0		
		6435-6525	103 to 119	103, 119	OFDMA	BPSK	MCS0		
		6525-6855	135 to 183	135, 151, 167, 183	OFDMA	BPSK	MCS0		
		6875-7115	199 to 215	199, 215	OFDMA	BPSK	MCS0		
802.11ax (HE160)		5955-6415	15 to 79	15, 47, 79	OFDMA	BPSK	MCS0		
		6435-6525	111	111	OFDMA	BPSK	MCS0		
		6525-6855	143 to 175	143, 175	OFDMA	BPSK	MCS0		
		6875-7115	207	207	OFDMA	BPSK	MCS0		
Preamble (MHz)	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter	RU Configuration		
20	5955-6415	1 to 93	1 93	OFDMA	BPSK	MCS0	26/0 26/8	52/37 52/40	106/53 106/54
	6435-6525	97 to 113	97	OFDMA	BPSK	MCS0	26/0	52/37	106/53
	6525-6855	117 to 181	117 181	OFDMA	BPSK	MCS0	26/0 26/8	52/37 52/40	106/53 106/54
	6875-7115	185 to 233	213	OFDMA	BPSK	MCS0	26/8	52/40	106/54

Contention Based Protocol Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11ax (HE20)	5955-6415	1 to 93	1	OFDMA	BPSK	MCS0
	6435-6525	97 to 113	97	OFDMA	BPSK	MCS0
	6525-6855	117 to 185	129	OFDMA	BPSK	MCS0
	6875-7115	189 to 233	193	OFDMA	BPSK	MCS0
802.11ax (HE160)	5955-6415	15 to 79	15	OFDMA	BPSK	MCS0
	6435-6525	111	111	OFDMA	BPSK	MCS0
	6525-6855	143 to 175	143, 175	OFDMA	BPSK	MCS0
	6875-7025	207	207	OFDMA	BPSK	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE $\geq$ 1G	24deg. C, 65%RH	120Vac, 60Hz	Titan Hsu, Edison Lee
RE<1G	24deg. C, 65%RH	120Vac, 60Hz	Titan Hsu
PLC	25deg. C, 75%RH	120Vac, 60Hz	Edison Lee
APCM	25deg. C, 60%RH	120Vac, 60Hz	Jisyong Wang

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor is required

802.11a: Duty cycle = 1.388 ms/1.433 ms= 0.969, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.14 \text{ dB}$

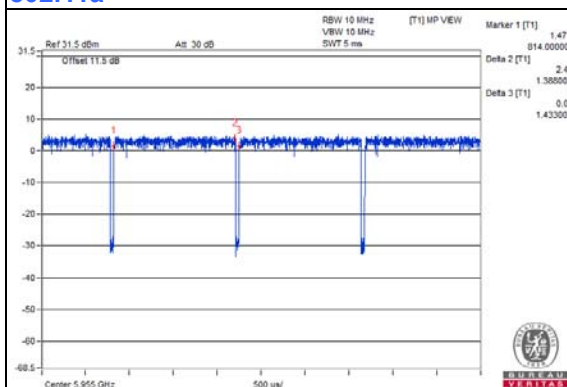
802.11ax (HE20): Duty cycle = 1.988 ms/2.044 ms= 0.973, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.12 \text{ dB}$

802.11ax (HE40): Duty cycle = 1.941 ms/1.994 ms= 0.973, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.12 \text{ dB}$

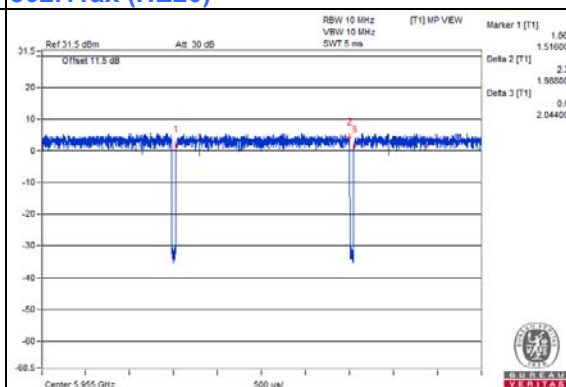
802.11ax (HE80): Duty cycle = 0.967 ms/1.013 ms= 0.955, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.20 \text{ dB}$

802.11ax (HE160): Duty cycle = 0.215 ms/0.260 ms= 0.827, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.83 \text{ dB}$

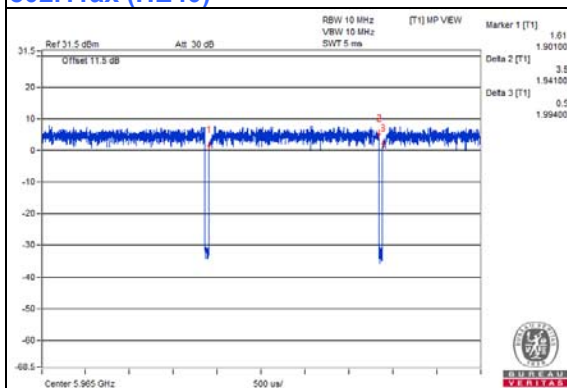
802.11a



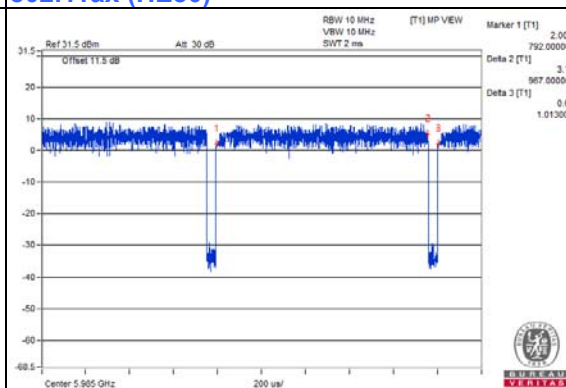
802.11ax (HE20)



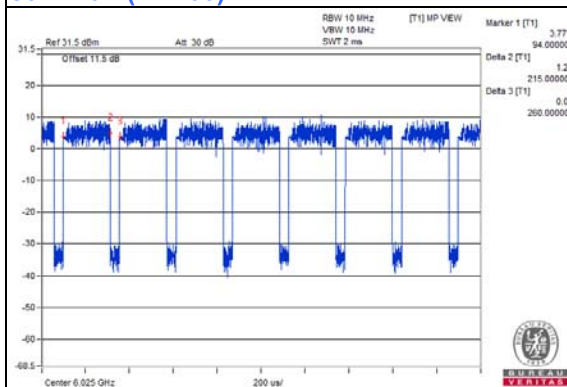
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5520	8Y4DMQ1	FCC DoC Approved	Provided by Lab
B.	Test Tool	MediaTek	MTK1849	NA	NA	Supplied by client
C.	Adapter	DELL	LA65NS2-01	NA	NA	Provided by Lab

Note:

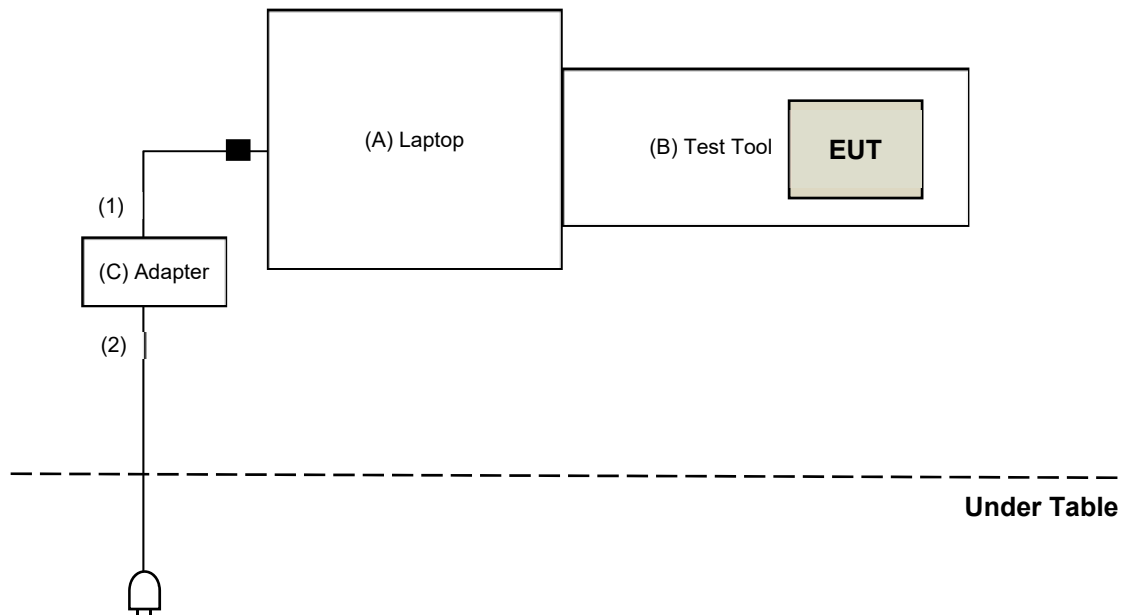
1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.8	No	1	Provided by Lab
2.	AC Cable	1	1.8	No	0	Provided by Lab

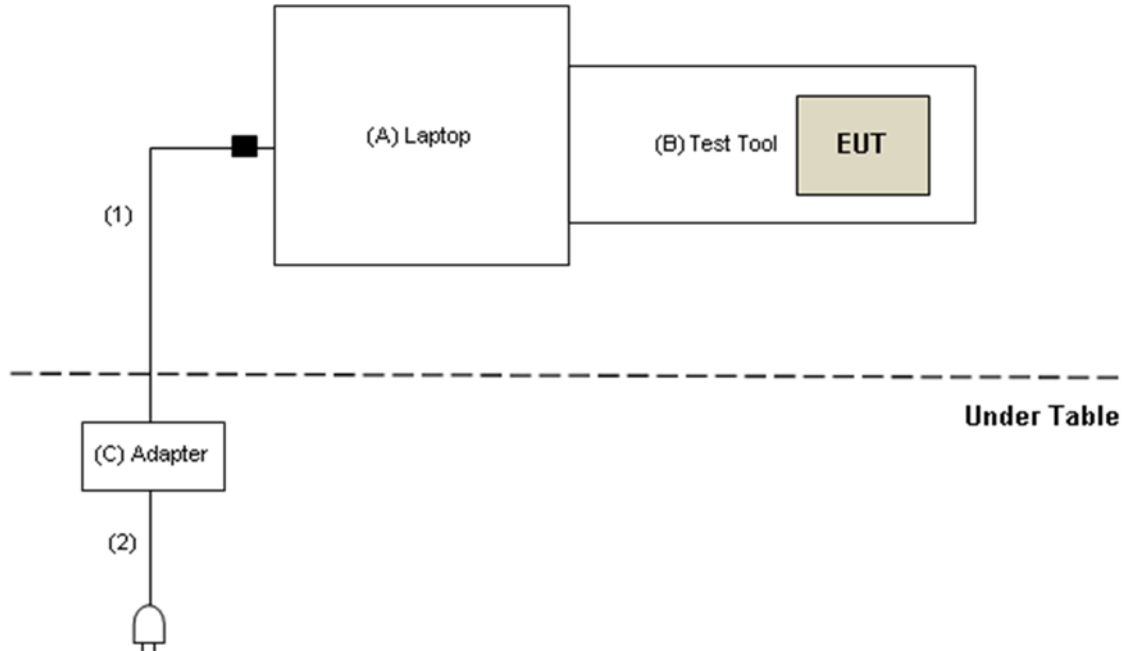
Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test

For AC Power Conducted Emission test:



For Radiated Emissions test:



3.5 General Description of Applied Standard

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test Standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 987594 D02 EMC Measurement v01r01

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (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:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3m
5925MHz > F > 7125MHz	Peak:-7 (dBm/MHz)	88.2(dBμV/m)
	Average: -27 (dBm/MHz)	68.2(dBμV/m)

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102579	Jul. 07, 2020	Jul. 06, 2021
			Jul. 05, 2021	Jul. 04, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 09, 2020	Jun. 08, 2021
			Jun. 07, 2021	Jun. 06, 2022
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 16, 2020	Aug. 15, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 22, 2021	Mar. 21, 2022
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-SM- 8000	Cable-CH3-03 (309224+170907)	Aug. 16, 2020	Aug. 15, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.

4.1.3 Test Procedure

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

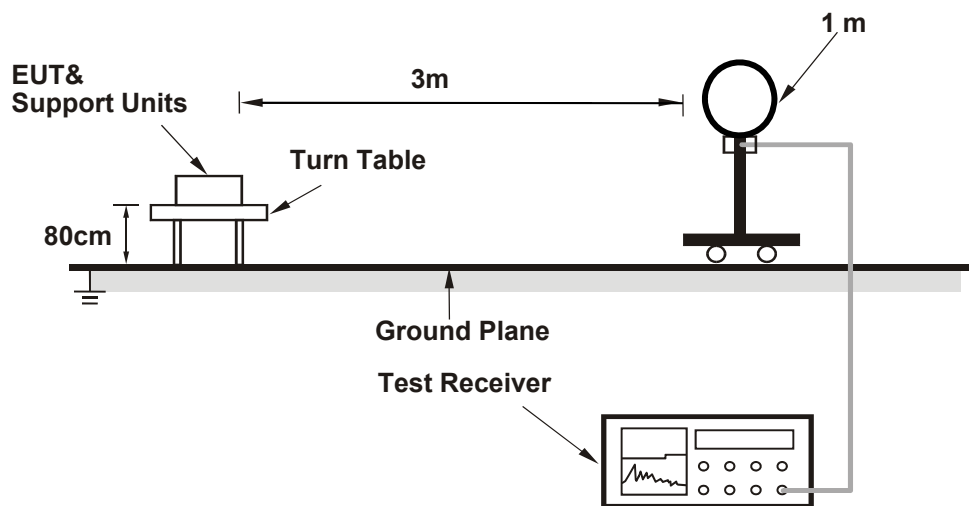
- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the RMS detector is unnecessary.

Note:

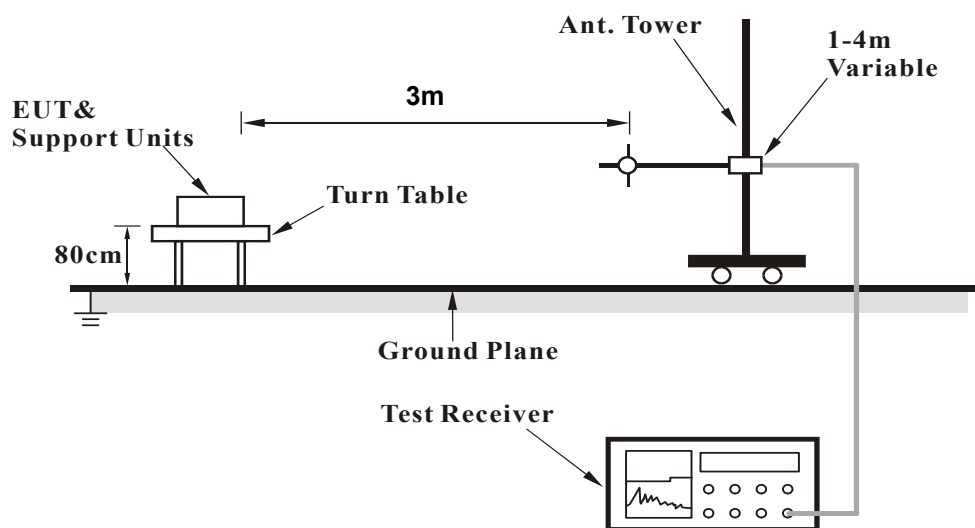
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The detection is peak and the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average measurement (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Test Setup

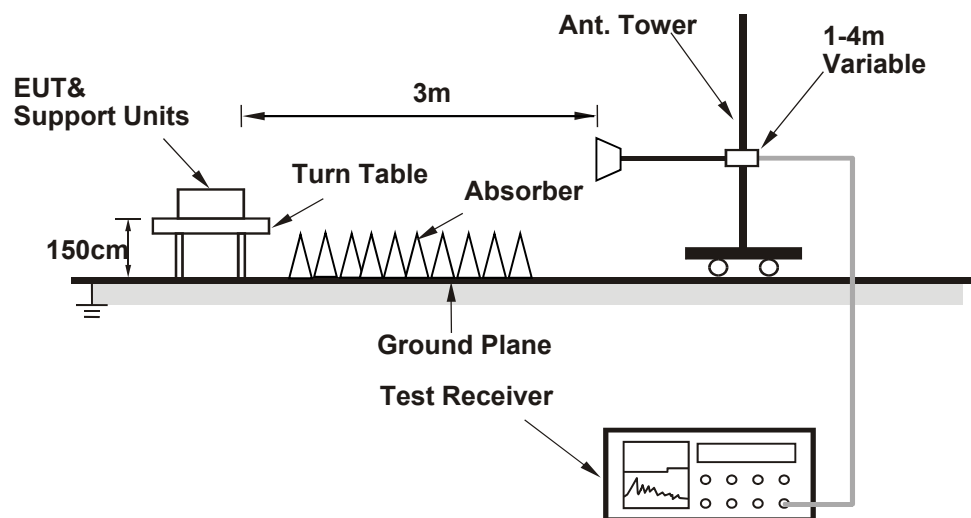
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.5 EUT Operating Condition

- Connected the EUT with the Laptop which is placed on the testing table.
- Controlling software (MT7915 QA 0.0..15) has been activated to set the EUT under transmission condition continuously.

4.1.6 Test Results

Above 1GHz Data:

RF Mode	TX 802.11a 6G	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.7 PK	88.2	-29.5	1.68 H	288	51.4	7.3
2	#5925.00	45.5 AV	68.2	-22.7	1.68 H	288	38.2	7.3
3	*5955.00	98.7 PK			1.68 H	288	55.6	43.1
4	*5955.00	88.4 AV			1.68 H	288	45.3	43.1
5	11910.00	56.6 PK	74.0	-17.4	1.32 H	24	40.8	15.8
6	11910.00	43.8 AV	54.0	-10.2	1.32 H	24	28.0	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.5 PK	88.2	-28.7	1.45 V	325	52.2	7.3
2	#5925.00	45.6 AV	68.2	-22.6	1.45 V	325	38.3	7.3
3	*5955.00	95.3 PK			1.45 V	325	52.2	43.1
4	*5955.00	84.9 AV			1.45 V	325	41.8	43.1
5	11910.00	56.8 PK	74.0	-17.2	1.31 V	22	41.0	15.8
6	11910.00	44.3 AV	54.0	-9.7	1.31 V	22	28.5	15.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 45 : 6175 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.3 PK	88.2	-29.9	2.13 H	294	51.0	7.3
2	#5925.00	45.4 AV	68.2	-22.8	2.13 H	294	38.1	7.3
3	*6175.00	97.3 PK			2.13 H	294	54.0	43.3
4	*6175.00	87.4 AV			2.13 H	294	44.1	43.3
5	12350.00	56.6 PK	74.0	-17.4	1.34 H	25	40.3	16.3
6	12350.00	43.6 AV	54.0	-10.4	1.34 H	25	27.3	16.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.3 PK	88.2	-29.9	1.42 V	303	51.0	7.3
2	#5925.00	45.3 AV	68.2	-22.9	1.42 V	303	38.0	7.3
3	*6175.00	95.2 PK			1.42 V	303	51.9	43.3
4	*6175.00	85.2 AV			1.42 V	303	41.9	43.3
5	12350.00	57.2 PK	74.0	-16.8	1.32 V	25	40.9	16.3
6	12350.00	44.3 AV	54.0	-9.7	1.32 V	25	28.0	16.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.3 PK	88.2	-29.9	2.22 H	302	51.0	7.3
2	#5925.00	45.5 AV	68.2	-22.7	2.22 H	302	38.2	7.3
3	*6415.00	98.2 PK			2.22 H	302	54.3	43.9
4	*6415.00	88.1 AV			2.22 H	302	44.2	43.9
5	#12830.00	57.3 PK	88.2	-30.9	1.38 H	20	39.2	18.1
6	#12830.00	45.4 AV	68.2	-22.8	1.38 H	20	27.3	18.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.2 PK	88.2	-29.0	1.42 V	317	51.9	7.3
2	#5925.00	45.6 AV	68.2	-22.6	1.42 V	317	38.3	7.3
3	*6415.00	99.3 PK			1.42 V	317	55.4	43.9
4	*6415.00	87.1 AV			1.42 V	317	43.2	43.9
5	#12830.00	58.7 PK	88.2	-29.5	1.32 V	20	40.6	18.1
6	#12830.00	46.3 AV	68.2	-21.9	1.32 V	20	28.2	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	99.5 PK			1.95 H	310	55.5	44.0
2	*6435.00	89.7 AV			1.95 H	310	45.7	44.0
3	#12870.00	58.0 PK	88.2	-30.2	1.42 H	35	39.7	18.3
4	#12870.00	45.3 AV	68.2	-22.9	1.42 H	35	27.0	18.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	96.2 PK			1.35 V	336	52.2	44.0
2	*6435.00	86.4 AV			1.35 V	336	42.4	44.0
3	#12870.00	57.6 PK	88.2	-30.6	2.35 V	135	39.3	18.3
4	#12870.00	45.1 AV	68.2	-23.1	2.35 V	135	26.8	18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 105 : 6475 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	98.7 PK			1.89 H	315	54.4	44.3
2	*6475.00	89.3 AV			1.89 H	315	45.0	44.3
3	#12950.00	58.3 PK	88.2	-29.9	1.56 H	38	39.9	18.4
4	#12950.00	45.6 AV	68.2	-22.6	1.56 H	38	27.2	18.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	96.3 PK			1.31 V	337	52.0	44.3
2	*6475.00	86.4 AV			1.31 V	337	42.1	44.3
3	#12950.00	57.4 PK	88.2	-30.8	2.30 V	130	39.0	18.4
4	#12950.00	45.0 AV	68.2	-23.2	2.30 V	130	26.6	18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 113 : 6515 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	98.8 PK			1.89 H	308	54.2	44.6
2	*6515.00	89.7 AV			1.89 H	308	45.1	44.6
3	#13030.00	56.2 PK	88.2	-32.0	1.40 H	37	37.8	18.4
4	#13030.00	45.8 AV	68.2	-22.4	1.40 H	37	27.4	18.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	95.0 PK			1.23 V	335	50.4	44.6
2	*6515.00	81.2 AV			1.23 V	335	36.6	44.6
3	#13030.00	57.5 PK	88.2	-30.7	2.37 V	138	39.1	18.4
4	#13030.00	45.0 AV	68.2	-23.2	2.37 V	138	26.6	18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	104.4 PK			1.91 H	310	59.7	44.7
2	*6535.00	93.7 AV			1.91 H	310	49.0	44.7
3	#13070.00	58.1 PK	88.2	-30.1	1.55 H	41	39.6	18.5
4	#13070.00	44.7 AV	68.2	-23.5	1.55 H	41	26.2	18.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	100.3 PK			1.17 V	338	55.6	44.7
2	*6535.00	90.4 AV			1.17 V	338	45.7	44.7
3	#13070.00	57.7 PK	88.2	-30.5	2.33 V	137	39.2	18.5
4	#13070.00	44.5 AV	68.2	-23.7	2.33 V	137	26.0	18.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 153 : 6715 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6715.00	103.6 PK			1.88 H	296	58.9	44.7
2	*6715.00	93.5 AV			1.88 H	296	48.8	44.7
3	#13430.00	59.6 PK	88.2	-28.6	1.39 H	30	39.8	19.8
4	#13430.00	46.1 AV	68.2	-22.1	1.39 H	30	26.3	19.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6715.00	97.9 PK			1.31 V	339	53.2	44.7
2	*6715.00	88.2 AV			1.31 V	339	43.5	44.7
3	#13430.00	59.3 PK	88.2	-28.9	2.48 V	142	39.5	19.8
4	#13430.00	45.9 AV	68.2	-22.3	2.48 V	142	26.1	19.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	103.3 PK			1.95 H	311	58.5	44.8
2	*6855.00	93.7 AV			1.95 H	311	48.9	44.8
3	#13710.00	60.0 PK	88.2	-28.2	1.44 H	39	40.0	20.0
4	#13710.00	47.2 AV	68.2	-21.0	1.44 H	39	27.2	20.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	97.9 PK			1.26 V	309	53.1	44.8
2	*6855.00	87.3 AV			1.26 V	309	42.5	44.8
3	#13710.00	59.6 PK	88.2	-28.6	2.49 V	133	39.6	20.0
4	#13710.00	46.9 AV	68.2	-21.3	2.49 V	133	26.9	20.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 185 : 6875 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	103.2 PK			2.33 H	309	58.3	44.9
2	*6875.00	93.6 AV			2.33 H	309	48.7	44.9
3	#13750.00	59.7 PK	88.2	-28.5	2.44 H	134	39.7	20.0
4	#13750.00	46.8 AV	68.2	-21.4	2.44 H	134	26.8	20.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	96.3 PK			1.39 V	316	51.4	44.9
2	*6875.00	86.1 AV			1.39 V	316	41.2	44.9
3	#13750.00	59.8 PK	88.2	-28.4	1.55 V	13	39.8	20.0
4	#13750.00	46.6 AV	68.2	-21.6	1.55 V	13	26.6	20.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 213 : 7015 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	105.4 PK			2.16 H	307	59.3	46.1
2	*7015.00	95.5 AV			2.16 H	307	49.4	46.1
3	#14030.00	61.0 PK	88.2	-27.2	2.46 H	138	39.6	21.4
4	#14030.00	48.1 AV	68.2	-20.1	2.46 H	138	26.7	21.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	97.0 PK			1.34 V	317	50.9	46.1
2	*7015.00	86.6 AV			1.34 V	317	40.5	46.1
3	#14030.00	57.1 PK	88.2	-31.1	1.60 V	11	35.7	21.4
4	#14030.00	43.9 AV	68.2	-24.3	1.60 V	11	22.5	21.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a 6G	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	104.5 PK			2.25 H	303	58.1	46.4
2	*7115.00	94.4 AV			2.25 H	303	48.0	46.4
3	#7125.00	79.4 PK	88.2	-8.8	2.25 H	303	69.1	10.3
4	#7125.00	55.3 AV	68.2	-12.9	2.25 H	303	45.0	10.3
5	#14230.00	60.4 PK	88.2	-27.8	2.46 H	132	39.6	20.8
6	#14230.00	47.2 AV	68.2	-21.0	2.46 H	132	26.4	20.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	95.2 PK			1.35 V	303	48.8	46.4
2	*7115.00	86.2 AV			1.35 V	303	39.8	46.4
3	#7125.00	66.4 PK	88.2	-21.8	1.35 V	303	56.1	10.3
4	#7125.00	48.1 AV	68.2	-20.1	1.35 V	303	37.8	10.3
5	#14230.00	56.7 PK	88.2	-31.5	1.54 V	18	35.9	20.8
6	#14230.00	43.5 AV	68.2	-24.7	1.54 V	18	22.7	20.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	60.0 PK	88.2	-28.2	1.40 H	301	52.7	7.3
2	#5925.00	45.5 AV	68.2	-22.7	1.40 H	301	38.2	7.3
3	*5955.00	100.2 PK			1.40 H	301	57.1	43.1
4	*5955.00	87.4 AV			1.40 H	301	44.3	43.1
5	11910.00	56.4 PK	74.0	-17.6	1.42 H	26	40.6	15.8
6	11910.00	43.2 AV	54.0	-10.8	1.42 H	26	27.4	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	60.0 PK	88.2	-28.2	1.40 V	301	52.7	7.3
2	#5925.00	45.5 AV	68.2	-22.7	1.40 V	301	38.2	7.3
3	*5955.00	100.2 PK			1.40 V	301	57.1	43.1
4	*5955.00	87.4 AV			1.40 V	301	44.3	43.1
5	11910.00	56.4 PK	74.0	-17.6	1.42 V	26	40.6	15.8
6	11910.00	43.2 AV	54.0	-10.8	1.42 V	26	27.4	15.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 45 : 6175 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.2 PK	88.2	-29.0	1.42 H	292	51.9	7.3
2	#5925.00	45.5 AV	68.2	-22.7	1.42 H	292	38.2	7.3
3	*6175.00	98.0 PK			1.42 H	292	54.7	43.3
4	*6175.00	84.8 AV			1.42 H	292	41.5	43.3
5	12350.00	55.2 PK	74.0	-18.8	1.00 H	18	38.9	16.3
6	12350.00	42.5 AV	54.0	-11.5	1.00 H	18	26.2	16.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.1 PK	88.2	-29.1	1.59 V	335	51.8	7.3
2	#5925.00	45.5 AV	68.2	-22.7	1.59 V	335	38.2	7.3
3	*6175.00	99.8 PK			1.59 V	335	56.5	43.3
4	*6175.00	87.3 AV			1.59 V	335	44.0	43.3
5	12350.00	57.4 PK	74.0	-16.6	1.37 V	26	41.1	16.3
6	12350.00	44.9 AV	54.0	-9.1	1.37 V	26	28.6	16.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.4 PK	88.2	-28.8	1.44 H	296	52.1	7.3
2	#5925.00	45.5 AV	68.2	-22.7	1.44 H	296	38.2	7.3
3	*6415.00	100.2 PK			1.44 H	296	56.3	43.9
4	*6415.00	87.1 AV			1.44 H	296	43.2	43.9
5	#12830.00	59.0 PK	88.2	-29.2	1.35 H	24	40.9	18.1
6	#12830.00	46.4 AV	68.2	-21.8	1.35 H	24	28.3	18.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.3 PK	88.2	-28.9	1.48 V	315	52.0	7.3
2	#5925.00	45.3 AV	68.2	-22.9	1.48 V	315	38.0	7.3
3	*6415.00	99.4 PK			1.48 V	315	55.5	43.9
4	*6415.00	87.1 AV			1.48 V	315	43.2	43.9
5	#12830.00	58.7 PK	88.2	-29.5	1.29 V	18	40.6	18.1
6	#12830.00	46.3 AV	68.2	-21.9	1.29 V	18	28.2	18.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	104.8 PK			2.01 H	310	60.8	44.0
2	*6435.00	93.2 AV			2.01 H	310	49.2	44.0
3	#12870.00	58.3 PK	88.2	-29.9	1.44 H	36	40.0	18.3
4	#12870.00	45.4 AV	68.2	-22.8	1.44 H	36	27.1	18.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	102.0 PK			1.36 V	341	58.0	44.0
2	*6435.00	89.7 AV			1.36 V	341	45.7	44.0
3	#12870.00	57.5 PK	88.2	-30.7	2.29 V	133	39.2	18.3
4	#12870.00	44.9 AV	68.2	-23.3	2.29 V	133	26.6	18.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 105 : 6475 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	105.4 PK			1.98 H	310	61.1	44.3
2	*6475.00	93.5 AV			1.98 H	310	49.2	44.3
3	#12950.00	58.6 PK	88.2	-29.6	1.57 H	44	40.2	18.4
4	#12950.00	45.5 AV	68.2	-22.7	1.57 H	44	27.1	18.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6475.00	102.0 PK			1.46 V	339	57.7	44.3
2	*6475.00	90.3 AV			1.46 V	339	46.0	44.3
3	#12950.00	58.1 PK	88.2	-30.1	2.40 V	141	39.7	18.4
4	#12950.00	45.2 AV	68.2	-23.0	2.40 V	141	26.8	18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 113 : 6515 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	106.9 PK			2.08 H	314	62.3	44.6
2	*6515.00	93.8 AV			2.08 H	314	49.2	44.6
3	#13030.00	57.0 PK	88.2	-31.2	1.38 H	40	38.6	18.4
4	#13030.00	45.7 AV	68.2	-22.5	1.38 H	40	27.3	18.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6515.00	104.4 PK			1.33 V	337	59.8	44.6
2	*6515.00	92.7 AV			1.33 V	337	48.1	44.6
3	#13030.00	58.4 PK	88.2	-29.8	2.22 V	138	40.0	18.4
4	#13030.00	45.4 AV	68.2	-22.8	2.22 V	138	27.0	18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	104.7 PK			2.02 H	313	60.0	44.7
2	*6535.00	92.9 AV			2.02 H	313	48.2	44.7
3	#13070.00	58.4 PK	88.2	-29.8	1.51 H	41	39.9	18.5
4	#13070.00	45.3 AV	68.2	-22.9	1.51 H	41	26.8	18.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	101.6 PK			1.38 V	336	56.9	44.7
2	*6535.00	89.2 AV			1.38 V	336	44.5	44.7
3	#13070.00	57.6 PK	88.2	-30.6	2.41 V	135	39.1	18.5
4	#13070.00	45.0 AV	68.2	-23.2	2.41 V	135	26.5	18.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 153 : 6715 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6715.00	104.5 PK			1.72 H	311	59.8	44.7
2	*6715.00	92.3 AV			1.72 H	311	47.6	44.7
3	#13430.00	58.7 PK	88.2	-29.5	1.39 H	32	38.9	19.8
4	#13430.00	46.3 AV	68.2	-21.9	1.39 H	32	26.5	19.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6715.00	99.6 PK			1.22 V	340	54.9	44.7
2	*6715.00	87.6 AV			1.22 V	340	42.9	44.7
3	#13430.00	58.5 PK	88.2	-29.7	2.29 V	129	38.7	19.8
4	#13430.00	46.2 AV	68.2	-22.0	2.29 V	129	26.4	19.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	102.9 PK			1.85 H	312	58.1	44.8
2	*6855.00	90.4 AV			1.85 H	312	45.6	44.8
3	#13710.00	59.6 PK	88.2	-28.6	1.51 H	48	39.6	20.0
4	#13710.00	46.9 AV	68.2	-21.3	1.51 H	48	26.9	20.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	99.0 PK			1.22 V	340	54.2	44.8
2	*6855.00	86.2 AV			1.22 V	340	41.4	44.8
3	#13710.00	59.5 PK	88.2	-28.7	2.28 V	123	39.5	20.0
4	#13710.00	46.7 AV	68.2	-21.5	2.28 V	123	26.7	20.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 185 : 6875 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	105.0 PK			2.32 H	308	60.1	44.9
2	*6875.00	92.6 AV			2.32 H	308	47.7	44.9
3	#13750.00	55.1 PK	88.2	-33.1	2.42 H	130	35.1	20.0
4	#13750.00	42.5 AV	68.2	-25.7	2.42 H	130	22.5	20.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6875.00	97.9 PK			1.38 V	318	53.0	44.9
2	*6875.00	86.1 AV			1.38 V	318	41.2	44.9
3	#13750.00	56.5 PK	88.2	-31.7	1.50 V	20	36.5	20.0
4	#13750.00	43.4 AV	68.2	-24.8	1.50 V	20	23.4	20.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 213 : 7015 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	107.9 PK			2.32 H	312	61.8	46.1
2	*7015.00	94.2 AV			2.32 H	312	48.1	46.1
3	#14030.00	57.0 PK	88.2	-31.2	2.38 H	128	35.6	21.4
4	#14030.00	44.1 AV	68.2	-24.1	2.38 H	128	22.7	21.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	98.3 PK			1.34 V	317	52.2	46.1
2	*7015.00	86.7 AV			1.34 V	317	40.6	46.1
3	#14030.00	56.8 PK	88.2	-31.4	1.52 V	14	35.4	21.4
4	#14030.00	43.8 AV	68.2	-24.4	1.52 V	14	22.4	21.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	97.0 PK			2.30 H	310	50.6	46.4
2	*7115.00	85.4 AV			2.30 H	310	39.0	46.4
3	#7125.00	80.3 PK	88.2	-7.9	2.30 H	310	70.0	10.3
4	#7125.00	67.2 AV	68.2	-1.0	2.30 H	310	56.9	10.3
5	#14230.00	57.0 PK	88.2	-31.2	2.47 H	131	36.2	20.8
6	#14230.00	44.0 AV	68.2	-24.2	2.47 H	131	23.2	20.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	92.0 PK			1.34 V	302	45.6	46.4
2	*7115.00	78.8 AV			1.34 V	302	32.4	46.4
3	#7125.00	75.0 PK	88.2	-13.2	1.34 V	302	64.7	10.3
4	#7125.00	62.9 AV	68.2	-5.3	1.34 V	302	52.6	10.3
5	#14230.00	57.0 PK	88.2	-31.2	1.51 V	10	36.2	20.8
6	#14230.00	43.7 AV	68.2	-24.5	1.51 V	10	22.9	20.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 3 : 5965 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.7 PK	88.2	-29.5	1.40 H	286	51.4	7.3
2	#5925.00	45.6 AV	68.2	-22.6	1.40 H	286	38.3	7.3
3	*5965.00	101.3 PK			1.40 H	286	58.2	43.1
4	*5965.00	88.8 AV			1.40 H	286	45.7	43.1
5	11930.00	67.9 PK	74.0	-6.1	1.34 H	16	52.0	15.9
6	11930.00	43.9 AV	54.0	-10.1	1.34 H	16	28.0	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.4 PK	88.2	-28.8	1.50 V	325	52.1	7.3
2	#5925.00	45.5 AV	68.2	-22.7	1.50 V	325	38.2	7.3
3	*5965.00	97.5 PK			1.50 V	325	54.4	43.1
4	*5965.00	85.0 AV			1.50 V	325	41.9	43.1
5	11930.00	56.5 PK	74.0	-17.5	1.37 V	24	40.6	15.9
6	11930.00	44.0 AV	54.0	-10.0	1.37 V	24	28.1	15.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 43 : 6165 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.7 PK	88.2	-29.5	1.43 H	292	51.4	7.3
2	#5925.00	45.4 AV	68.2	-22.8	1.43 H	292	38.1	7.3
3	*6165.00	99.1 PK			1.43 H	292	55.9	43.2
4	*6165.00	86.7 AV			1.43 H	292	43.5	43.2
5	12330.00	68.2 PK	74.0	-5.8	1.30 H	26	51.9	16.3
6	12330.00	44.1 AV	54.0	-9.9	1.30 H	26	27.8	16.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.3 PK	88.2	-28.9	1.49 V	331	52.0	7.3
2	#5925.00	45.6 AV	68.2	-22.6	1.49 V	331	38.3	7.3
3	*6165.00	96.3 PK			1.49 V	331	53.1	43.2
4	*6165.00	83.6 AV			1.49 V	331	40.4	43.2
5	12330.00	57.1 PK	74.0	-16.9	1.28 V	17	40.8	16.3
6	12330.00	44.9 AV	54.0	-9.1	1.28 V	17	28.6	16.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 91 : 6405 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.6 PK	88.2	-28.6	1.45 H	300	52.3	7.3
2	#5925.00	45.7 AV	68.2	-22.5	1.45 H	300	38.4	7.3
3	*6405.00	101.0 PK			1.45 H	300	57.3	43.7
4	*6405.00	88.5 AV			1.45 H	300	44.8	43.7
5	#12810.00	69.7 PK	88.2	-18.5	1.27 H	17	51.7	18.0
6	#12810.00	45.9 AV	68.2	-22.3	1.27 H	17	27.9	18.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.6 PK	88.2	-28.6	1.29 V	312	52.3	7.3
2	#5925.00	45.8 AV	68.2	-22.4	1.29 V	312	38.5	7.3
3	*6405.00	97.8 PK			1.29 V	312	54.1	43.7
4	*6405.00	84.5 AV			1.29 V	312	40.8	43.7
5	#12810.00	58.7 PK	88.2	-29.5	1.35 V	18	40.7	18.0
6	#12810.00	46.2 AV	68.2	-22.0	1.35 V	18	28.2	18.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 99 : 6445 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6445.00	106.5 PK			1.94 H	316	62.4	44.1
2	*6445.00	92.9 AV			1.94 H	316	48.8	44.1
3	#12890.00	58.5 PK	88.2	-29.7	1.51 H	51	40.0	18.5
4	#12890.00	46.5 AV	68.2	-21.7	1.51 H	51	28.0	18.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6445.00	103.3 PK			1.39 V	336	59.0	44.3
2	*6445.00	91.1 AV			1.39 V	336	46.8	44.3
3	#12890.00	58.3 PK	88.2	-29.9	2.28 V	142	39.8	18.5
4	#12890.00	45.4 AV	68.2	-22.8	2.28 V	142	26.9	18.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 107 : 6485 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6485.00	107.0 PK			1.93 H	315	62.7	44.3
2	*6485.00	93.0 AV			1.93 H	315	48.7	44.3
3	#12970.00	58.4 PK	88.2	-29.8	1.44 H	42	40.0	18.4
4	#12970.00	45.6 AV	68.2	-22.6	1.44 H	42	27.2	18.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6485.00	103.2 PK			1.24 V	335	58.9	44.3
2	*6485.00	91.0 AV			1.24 V	335	46.7	44.3
3	#12970.00	57.9 PK	88.2	-30.3	2.31 V	135	39.5	18.4
4	#12970.00	45.2 AV	68.2	-23.0	2.31 V	135	26.8	18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 115 : 6525 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6525.00	106.1 PK			1.83 H	313	61.5	44.6
2	*6525.00	92.6 AV			1.83 H	313	48.0	44.6
3	#13050.00	58.4 PK	88.2	-29.8	1.53 H	46	39.9	18.5
4	#13050.00	45.8 AV	68.2	-22.4	1.53 H	46	27.3	18.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6525.00	101.8 PK			1.29 V	338	57.2	44.6
2	*6525.00	90.2 AV			1.29 V	338	45.6	44.6
3	#13050.00	57.5 PK	88.2	-30.7	2.40 V	130	39.0	18.5
4	#13050.00	45.0 AV	68.2	-23.2	2.40 V	130	26.5	18.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 123 : 6565 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6565.00	105.6 PK			1.71 H	309	60.9	44.7
2	*6565.00	93.7 AV			1.71 H	309	49.0	44.7
3	#13130.00	58.8 PK	88.2	-29.4	1.44 H	30	40.2	18.6
4	#13130.00	45.7 AV	68.2	-22.5	1.44 H	30	27.1	18.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6565.00	102.6 PK			1.34 V	339	57.9	44.7
2	*6565.00	90.3 AV			1.34 V	339	45.6	44.7
3	#13130.00	58.2 PK	88.2	-30.0	2.44 V	149	39.6	18.6
4	#13130.00	45.4 AV	68.2	-22.8	2.44 V	149	26.8	18.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 155 : 6725 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6725.00	103.7 PK			1.69 H	309	59.0	44.7
2	*6725.00	91.9 AV			1.69 H	309	47.2	44.7
3	#13450.00	59.3 PK	88.2	-28.9	1.50 H	48	39.5	19.8
4	#13450.00	46.6 AV	68.2	-21.6	1.50 H	48	26.8	19.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6725.00	100.8 PK			1.41 V	341	56.1	44.7
2	*6725.00	88.1 AV			1.41 V	341	43.4	44.7
3	#13450.00	59.2 PK	88.2	-29.0	2.35 V	140	39.4	19.8
4	#13450.00	46.5 AV	68.2	-21.7	2.35 V	140	26.7	19.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 179 : 6845 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6845.00	105.1 PK			1.97 H	313	60.3	44.8
2	*6845.00	93.0 AV			1.97 H	313	48.2	44.8
3	#13690.00	60.2 PK	88.2	-28.0	1.49 H	44	40.2	20.0
4	#13690.00	46.8 AV	68.2	-21.4	1.49 H	44	26.8	20.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6845.00	100.5 PK			1.20 V	345	55.7	44.8
2	*6845.00	88.1 AV			1.20 V	345	43.3	44.8
3	#13690.00	59.1 PK	88.2	-29.1	2.49 V	149	39.1	20.0
4	#13690.00	46.5 AV	68.2	-21.7	2.49 V	149	26.5	20.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 187 : 6885 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6885.00	107.2 PK			2.35 H	308	62.2	45.0
2	*6885.00	94.3 AV			2.35 H	308	49.3	45.0
3	#13770.00	56.0 PK	88.2	-32.2	2.48 H	137	36.1	19.9
4	#13770.00	43.7 AV	68.2	-24.5	2.48 H	137	23.8	19.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6885.00	101.1 PK			1.33 V	316	56.1	45.0
2	*6885.00	88.5 AV			1.33 V	316	43.5	45.0
3	#13770.00	56.7 PK	88.2	-31.5	1.59 V	19	36.8	19.9
4	#13770.00	43.3 AV	68.2	-24.9	1.59 V	19	23.4	19.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 211 : 7005 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7005.00	107.9 PK			2.30 H	312	61.9	46.0
2	*7005.00	94.5 AV			2.30 H	312	48.5	46.0
3	#14010.00	57.0 PK	88.2	-31.2	2.49 H	136	35.5	21.5
4	#14010.00	44.0 AV	68.2	-24.2	2.49 H	136	22.5	21.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7005.00	99.9 PK			1.34 V	312	53.9	46.0
2	*7005.00	87.2 AV			1.34 V	312	41.2	46.0
3	#14010.00	56.4 PK	88.2	-31.8	1.52 V	17	34.9	21.5
4	#14010.00	43.2 AV	68.2	-25.0	1.52 V	17	21.7	21.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 227 : 7085 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7085.00	107.0 PK			2.28 H	307	60.7	46.3
2	*7085.00	95.2 AV			2.28 H	307	48.9	46.3
3	#7125.00	59.6 PK	88.2	-28.6	2.28 H	307	49.3	10.3
4	#7125.00	46.2 AV	68.2	-22.0	2.28 H	307	35.9	10.3
5	#14170.00	57.3 PK	88.2	-30.9	2.41 H	129	36.6	20.7
6	#14170.00	44.1 AV	68.2	-24.1	2.41 H	129	23.4	20.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7085.00	98.8 PK			1.44 V	313	52.5	46.3
2	*7085.00	86.5 AV			1.44 V	313	40.2	46.3
3	#7125.00	59.1 PK	88.2	-29.1	1.44 V	313	48.8	10.3
4	#7125.00	45.9 AV	68.2	-22.3	1.44 V	313	35.6	10.3
5	#14170.00	56.8 PK	88.2	-31.4	1.56 V	18	36.1	20.7
6	#14170.00	43.7 AV	68.2	-24.5	1.56 V	18	23.0	20.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 7 : 5985 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.5 PK	88.2	-29.7	1.46 H	286	51.2	7.3
2	#5925.00	45.8 AV	68.2	-22.4	1.46 H	286	38.5	7.3
3	*5985.00	98.6 PK			1.46 H	286	55.6	43.0
4	*5985.00	85.3 AV			1.46 H	286	42.3	43.0
5	11970.00	57.1 PK	74.0	-16.9	1.32 H	27	40.8	16.3
6	11970.00	44.6 AV	54.0	-9.4	1.32 H	27	28.3	16.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.8 PK	88.2	-28.4	1.30 V	325	52.5	7.3
2	#5925.00	45.9 AV	68.2	-22.3	1.30 V	325	38.6	7.3
3	*5985.00	95.4 PK			1.30 V	325	52.4	43.0
4	*5985.00	82.6 AV			1.30 V	325	39.6	43.0
5	11970.00	57.1 PK	74.0	-16.9	1.34 V	20	40.8	16.3
6	11970.00	44.7 AV	54.0	-9.3	1.34 V	20	28.4	16.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 39 : 6145 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.8 PK	88.2	-29.4	1.47 H	306	51.5	7.3
2	#5925.00	45.5 AV	68.2	-22.7	1.47 H	306	38.2	7.3
3	*6145.00	94.2 PK			1.47 H	306	51.1	43.1
4	*6145.00	82.3 AV			1.47 H	306	39.2	43.1
5	12290.00	57.3 PK	74.0	-16.7	1.27 H	20	40.7	16.6
6	12290.00	44.7 AV	54.0	-9.3	1.27 H	20	28.1	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.5 PK	88.2	-28.7	1.40 V	331	52.2	7.3
2	#5925.00	45.6 AV	68.2	-22.6	1.40 V	331	38.3	7.3
3	*6145.00	92.1 PK			1.40 V	331	49.0	43.1
4	*6145.00	79.8 AV			1.40 V	331	36.7	43.1
5	12290.00	57.5 PK	74.0	-16.5	1.36 V	27	40.9	16.6
6	12290.00	45.0 AV	54.0	-9.0	1.36 V	27	28.4	16.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 87 : 6385 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.4 PK	88.2	-28.8	1.46 H	295	52.1	7.3
2	#5925.00	45.5 AV	68.2	-22.7	1.46 H	295	38.2	7.3
3	*6385.00	97.8 PK			1.46 H	295	54.1	43.7
4	*6385.00	84.7 AV			1.46 H	295	41.0	43.7
5	#12770.00	58.6 PK	88.2	-29.6	1.28 H	25	40.9	17.7
6	#12770.00	46.1 AV	68.2	-22.1	1.28 H	25	28.4	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.6 PK	88.2	-28.6	1.48 V	316	52.3	7.3
2	#5925.00	45.8 AV	68.2	-22.4	1.48 V	316	38.5	7.3
3	*6385.00	94.5 PK			1.48 V	316	50.8	43.7
4	*6385.00	81.4 AV			1.48 V	316	37.7	43.7
5	#12770.00	58.5 PK	88.2	-29.7	1.35 V	24	40.8	17.7
6	#12770.00	45.7 AV	68.2	-22.5	1.35 V	24	28.0	17.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 103 : 6465 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6465.00	108.1 PK			1.88 H	311	63.9	44.2
2	*6465.00	95.6 AV			1.88 H	311	51.4	44.2
3	#12930.00	58.7 PK	88.2	-29.5	1.44 H	48	40.1	18.6
4	#12930.00	46.3 AV	68.2	-21.9	1.44 H	48	27.7	18.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6465.00	104.7 PK			1.30 V	335	60.0	44.7
2	*6465.00	93.0 AV			1.30 V	335	48.3	44.7
3	#12930.00	58.6 PK	88.2	-29.6	2.22 V	151	40.0	18.6
4	#12930.00	45.7 AV	68.2	-22.5	2.22 V	151	27.1	18.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 119 : 6545 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6545.00	107.7 PK			1.98 H	310	63.0	44.7
2	*6545.00	95.5 AV			1.98 H	310	50.8	44.7
3	#13090.00	58.4 PK	88.2	-29.8	1.50 H	36	39.8	18.6
4	#13090.00	45.8 AV	68.2	-22.4	1.50 H	36	27.2	18.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6545.00	104.6 PK			1.26 V	338	59.9	44.7
2	*6545.00	92.7 AV			1.26 V	338	48.0	44.7
3	#13090.00	58.8 PK	88.2	-29.4	2.34 V	140	40.2	18.6
4	#13090.00	45.6 AV	68.2	-22.6	2.34 V	140	27.0	18.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 135 : 6625 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6625.00	105.5 PK			1.44 H	312	60.8	44.7
2	*6625.00	93.7 AV			1.44 H	312	49.0	44.7
3	13250.00	59.4 PK	74.0	-14.6	1.49 H	36	40.3	19.1
4	13250.00	46.3 AV	54.0	-7.7	1.49 H	36	27.2	19.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6625.00	102.1 PK			1.43 V	341	57.4	44.7
2	*6625.00	89.7 AV			1.43 V	341	45.0	44.7
3	13250.00	58.7 PK	74.0	-15.3	2.42 V	131	39.6	19.1
4	13250.00	45.9 AV	54.0	-8.1	2.42 V	131	26.8	19.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 151 : 6705 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6705.00	105.9 PK			1.44 H	308	61.2	44.7
2	*6705.00	93.9 AV			1.44 H	308	49.2	44.7
3	#13410.00	59.9 PK	88.2	-28.3	1.33 H	29	40.2	19.7
4	#13410.00	46.8 AV	68.2	-21.4	1.33 H	29	27.1	19.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6705.00	102.5 PK			1.35 V	336	57.8	44.7
2	*6705.00	89.2 AV			1.35 V	336	44.5	44.7
3	#13410.00	59.0 PK	88.2	-29.2	2.30 V	129	39.3	19.7
4	#13410.00	46.7 AV	68.2	-21.5	2.30 V	129	27.0	19.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 167 : 6785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6785.00	105.7 PK			1.83 H	308	60.9	44.8
2	*6785.00	94.2 AV			1.83 H	308	49.4	44.8
3	#13570.00	60.3 PK	88.2	-27.9	1.41 H	35	40.0	20.3
4	#13570.00	47.6 AV	68.2	-20.6	1.41 H	35	27.3	20.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6785.00	101.3 PK			1.16 V	313	56.5	44.8
2	*6785.00	90.0 AV			1.16 V	313	45.2	44.8
3	#13570.00	59.8 PK	88.2	-28.4	2.29 V	132	39.5	20.3
4	#13570.00	47.2 AV	68.2	-21.0	2.29 V	132	26.9	20.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 183 : 6865 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6865.00	106.0 PK			1.88 H	310	61.1	44.9
2	*6865.00	93.6 AV			1.88 H	310	48.7	44.9
3	#13730.00	60.4 PK	88.2	-27.8	1.35 H	39	40.4	20.0
4	#13730.00	47.2 AV	68.2	-21.0	1.35 H	39	27.2	20.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6865.00	101.0 PK			1.27 V	315	56.1	44.9
2	*6865.00	89.1 AV			1.27 V	315	44.2	44.9
3	#13730.00	60.0 PK	88.2	-28.2	2.40 V	141	40.0	20.0
4	#13730.00	46.9 AV	68.2	-21.3	2.40 V	141	26.9	20.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 199 : 6945 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6945.00	107.8 PK			2.36 H	310	62.1	45.7
2	*6945.00	95.9 AV			2.36 H	310	50.2	45.7
3	#13890.00	57.1 PK	88.2	-31.1	2.47 H	132	36.5	20.6
4	#13890.00	44.1 AV	68.2	-24.1	2.47 H	132	23.5	20.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6945.00	101.6 PK			1.34 V	312	55.9	45.7
2	*6945.00	89.1 AV			1.34 V	312	43.4	45.7
3	#13890.00	56.5 PK	88.2	-31.7	1.52 V	16	35.9	20.6
4	#13890.00	43.2 AV	68.2	-25.0	1.52 V	16	22.6	20.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 215 : 7025 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7025.00	108.1 PK			2.41 H	306	62.1	46.0
2	*7025.00	95.7 AV			2.41 H	306	49.7	46.0
3	#7125.00	59.2 PK	88.2	-29.0	2.41 H	306	48.9	10.3
4	#7125.00	46.3 AV	68.2	-21.9	2.41 H	306	36.0	10.3
5	#14050.00	57.2 PK	88.2	-31.0	2.48 H	127	35.9	21.3
6	#14050.00	44.2 AV	68.2	-24.0	2.48 H	127	22.9	21.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7025.00	100.8 PK			1.33 V	314	54.8	46.0
2	*7025.00	88.7 AV			1.33 V	314	42.7	46.0
3	#7125.00	58.9 PK	88.2	-29.3	1.33 V	314	48.6	10.3
4	#7125.00	45.7 AV	68.2	-22.5	1.33 V	314	35.4	10.3
5	#14050.00	56.9 PK	88.2	-31.3	1.53 V	12	35.6	21.3
6	#14050.00	43.7 AV	68.2	-24.5	1.53 V	12	22.4	21.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 15 : 6025 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	64.6 PK	88.2	-23.6	1.51 H	287	57.3	7.3
2	#5925.00	48.8 AV	68.2	-19.4	1.51 H	287	41.5	7.3
3	*6025.00	104.0 PK			1.51 H	287	61.1	42.9
4	*6025.00	91.3 AV			1.51 H	287	48.4	42.9
5	12050.00	57.1 PK	74.0	-16.9	1.35 H	28	40.8	16.3
6	12050.00	44.6 AV	54.0	-9.4	1.35 H	28	28.3	16.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.7 PK	88.2	-28.5	1.44 V	326	52.4	7.3
2	#5925.00	45.9 AV	68.2	-22.3	1.44 V	326	38.6	7.3
3	*6025.00	98.3 PK			1.44 V	326	55.4	42.9
4	*6025.00	85.6 AV			1.44 V	326	42.7	42.9
5	12050.00	57.2 PK	74.0	-16.8	1.36 V	20	40.9	16.3
6	12050.00	44.5 AV	54.0	-9.5	1.36 V	20	28.2	16.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 47 : 6185 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.0 PK	88.2	-29.2	1.32 H	291	51.7	7.3
2	#5925.00	45.6 AV	68.2	-22.6	1.32 H	291	38.3	7.3
3	*6185.00	103.8 PK			1.32 H	291	60.4	43.4
4	*6185.00	90.2 AV			1.32 H	291	46.8	43.4
5	12370.00	56.7 PK	74.0	-17.3	1.26 H	23	40.6	16.1
6	12370.00	44.3 AV	54.0	-9.7	1.26 H	23	28.2	16.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.3 PK	88.2	-28.9	1.52 V	334	52.0	7.3
2	#5925.00	45.4 AV	68.2	-22.8	1.52 V	334	38.1	7.3
3	*6185.00	99.7 PK			1.52 V	334	56.3	43.4
4	*6185.00	86.1 AV			1.52 V	334	42.7	43.4
5	12370.00	56.8 PK	74.0	-17.2	1.34 V	26	40.7	16.1
6	12370.00	44.3 AV	54.0	-9.7	1.34 V	26	28.2	16.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 79 : 6345 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.4 PK	88.2	-28.8	1.30 H	294	52.1	7.3
2	#5925.00	45.4 AV	68.2	-22.8	1.30 H	294	38.1	7.3
3	*6345.00	103.8 PK			1.30 H	294	60.2	43.6
4	*6345.00	90.5 AV			1.30 H	294	46.9	43.6
5	12690.00	58.4 PK	74.0	-15.6	1.32 H	22	41.0	17.4
6	12690.00	45.9 AV	54.0	-8.1	1.32 H	22	28.5	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.4 PK	88.2	-28.8	1.49 V	315	52.1	7.3
2	#5925.00	45.6 AV	68.2	-22.6	1.49 V	315	38.3	7.3
3	*6345.00	99.5 PK			1.49 V	315	55.9	43.6
4	*6345.00	87.2 AV			1.49 V	315	43.6	43.6
5	12690.00	57.4 PK	74.0	-16.6	1.31 V	24	40.0	17.4
6	12690.00	44.8 AV	54.0	-9.2	1.31 V	24	27.4	17.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 111 : 6505 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6505.00	108.7 PK			1.96 H	313	64.2	44.5
2	*6505.00	96.8 AV			1.96 H	313	52.3	44.5
3	#13010.00	58.7 PK	88.2	-29.5	1.55 H	41	40.3	18.4
4	#13010.00	46.4 AV	68.2	-21.8	1.55 H	41	28.0	18.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6505.00	105.9 PK			1.25 V	338	61.4	44.5
2	*6505.00	93.2 AV			1.25 V	338	48.7	44.5
3	#13010.00	58.3 PK	88.2	-29.9	2.33 V	138	39.9	18.4
4	#13010.00	45.6 AV	68.2	-22.6	2.33 V	138	27.2	18.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 143 : 6665 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6665.00	106.1 PK			1.91 H	302	61.4	44.7
2	*6665.00	94.1 AV			1.91 H	302	49.4	44.7
3	13330.00	60.0 PK	74.0	-14.0	1.48 H	48	40.3	19.7
4	13330.00	47.1 AV	54.0	-6.9	1.48 H	48	27.4	19.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6665.00	102.1 PK			1.35 V	138	57.4	44.7
2	*6665.00	90.1 AV			1.35 V	138	45.4	44.7
3	13330.00	59.8 PK	74.0	-14.2	2.35 V	135	40.1	19.7
4	13330.00	46.7 AV	54.0	-7.3	2.35 V	135	27.0	19.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 175 : 6825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6825.00	105.9 PK			1.82 H	313	61.0	44.9
2	*6825.00	93.6 AV			1.82 H	313	48.7	44.9
3	#13650.00	60.1 PK	88.2	-28.1	1.39 H	51	39.9	20.2
4	#13650.00	47.4 AV	68.2	-20.8	1.39 H	51	27.2	20.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6825.00	100.5 PK			1.28 V	313	55.6	44.9
2	*6825.00	89.1 AV			1.28 V	313	44.2	44.9
3	#13650.00	59.7 PK	88.2	-28.5	2.50 V	139	39.5	20.2
4	#13650.00	47.2 AV	68.2	-21.0	2.50 V	139	27.0	20.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 207 : 6985 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6985.00	108.1 PK			2.34 H	307	62.2	45.9
2	*6985.00	95.9 AV			2.34 H	307	50.0	45.9
3	#7125.00	66.6 PK	88.2	-21.6	2.34 H	307	56.3	10.3
4	#7125.00	51.0 AV	68.2	-17.2	2.34 H	307	40.7	10.3
5	#13970.00	57.2 PK	88.2	-31.0	2.46 H	127	35.9	21.3
6	#13970.00	43.9 AV	68.2	-24.3	2.46 H	127	22.6	21.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6985.00	101.8 PK			1.29 V	318	55.9	45.9
2	*6985.00	88.7 AV			1.29 V	318	42.8	45.9
3	#7125.00	59.8 PK	88.2	-28.4	1.29 V	318	49.5	10.3
4	#7125.00	46.7 AV	68.2	-21.5	1.29 V	318	36.4	10.3
5	#13970.00	56.6 PK	88.2	-31.6	1.58 V	16	35.3	21.3
6	#13970.00	43.4 AV	68.2	-24.8	1.58 V	16	22.1	21.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RU26

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.20 PK	88.20	-29.00	2.35 H	324	51.89	7.31
2	#5925.00	45.70 AV	68.20	-22.50	2.35 H	324	38.39	7.31
3	*5955.00	106.30 PK			2.35 H	324	63.25	43.05
4	*5955.00	94.90 AV			2.35 H	324	51.85	43.05
5	11910.00	57.00 PK	74.00	-17.00	1.51 H	48	41.18	15.82
6	11910.00	43.20 AV	54.00	-10.80	1.51 H	48	27.38	15.82
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.40 PK	88.20	-29.80	1.25 V	355	51.10	7.30
2	#5925.00	45.30 AV	68.20	-22.90	1.25 V	355	38.00	7.30
3	*5955.00	104.70 PK			1.25 V	355	61.60	43.10
4	*5955.00	93.90 AV			1.25 V	355	50.80	43.10
5	11910.00	56.60 PK	74.00	-17.40	1.29 V	39	40.80	15.80
6	11910.00	42.90 AV	54.00	-11.10	1.29 V	39	27.10	15.80

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.10 PK	88.20	-29.10	2.34 H	321	51.79	7.31
2	#5925.00	45.60 AV	68.20	-22.60	2.34 H	321	38.29	7.31
3	*6415.00	108.30 PK			2.34 H	321	64.46	43.84
4	*6415.00	97.00 AV			2.34 H	321	53.16	43.84
5	#12830.00	58.20 PK	88.20	-30.00	1.51 H	48	40.11	18.09
6	#12830.00	46.00 AV	68.20	-22.20	1.51 H	48	27.91	18.09
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.70 PK	88.20	-29.50	1.21 V	311	51.40	7.30
2	#5925.00	45.50 AV	68.20	-22.70	1.21 V	311	38.20	7.30
3	*6415.00	104.40 PK			1.21 V	311	60.50	43.90
4	*6415.00	92.70 AV			1.21 V	311	48.80	43.90
5	#12830.00	57.60 PK	88.20	-30.60	1.39 V	42	39.50	18.10
6	#12830.00	45.40 AV	68.20	-22.80	1.39 V	42	27.30	18.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	109.10 PK			2.39 H	323	65.10	44.00
2	*6435.00	97.70 AV			2.39 H	323	53.70	44.00
3	#12870.00	58.50 PK	88.20	-29.70	1.48 H	39	40.20	18.30
4	#12870.00	45.90 AV	68.20	-22.30	1.48 H	39	27.60	18.30
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	104.80 PK			1.18 V	313	60.80	44.00
2	*6435.00	93.20 AV			1.18 V	313	49.20	44.00
3	#12870.00	58.10 PK	88.20	-30.10	1.35 V	41	39.80	18.30
4	#12870.00	45.70 AV	68.20	-22.50	1.35 V	41	27.40	18.30

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	108.80 PK			2.36 H	311	64.10	44.70
2	*6535.00	97.90 AV			2.36 H	311	53.20	44.70
3	#13070.00	58.40 PK	88.20	-29.80	1.43 H	50	39.90	18.50
4	#13070.00	46.00 AV	68.20	-22.20	1.43 H	50	27.50	18.50
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	104.00 PK			1.10 V	311	59.30	44.70
2	*6535.00	92.50 AV			1.10 V	311	47.80	44.70
3	#13070.00	58.00 PK	88.20	-30.20	1.12 V	38	39.50	18.50
4	#13070.00	45.60 AV	68.20	-22.60	1.12 V	38	27.10	18.50

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	106.50 PK			2.21 H	298	61.70	44.80
2	*6855.00	96.00 AV			2.21 H	298	51.20	44.80
3	#13710.00	60.20 PK	88.20	-28.00	1.47 H	58	40.20	20.00
4	#13710.00	47.80 AV	68.20	-20.40	1.47 H	58	27.80	20.00
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	99.90 PK			1.15 V	294	55.10	44.80
2	*6855.00	89.50 AV			1.15 V	294	44.70	44.80
3	#13710.00	60.00 PK	88.20	-28.20	1.23 V	37	40.00	20.00
4	#13710.00	47.60 AV	68.20	-20.60	1.23 V	37	27.60	20.00

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 213 : 7015 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	105.00 PK			2.00 H	306	58.90	46.10
2	*7015.00	94.10 AV			2.00 H	306	48.00	46.10
3	#14030.00	60.10 PK	74.00	-13.90	1.61 H	54	38.70	21.40
4	#14030.00	47.80 AV	54.00	-6.20	1.61 H	54	26.40	21.40
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	99.20 PK			1.00 V	306	53.10	46.10
2	*7015.00	88.00 AV			1.00 V	306	41.90	46.10
3	#14030.00	60.10 PK	88.20	-28.10	1.26 V	33	38.70	21.40
4	#14030.00	47.70 AV	68.20	-20.50	1.26 V	33	26.30	21.40

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	105.40 PK			1.98 H	303	59.00	46.40
2	*7115.00	94.00 AV			1.98 H	303	47.60	46.40
3	#7125.00	85.90 PK	88.20	-2.30	1.98 H	303	75.60	10.30
4	#7125.00	66.90 AV	68.20	-1.30	1.98 H	303	56.60	10.30
5	#14230.00	60.30 PK	88.20	-27.90	1.58 H	49	39.50	20.80
6	#14230.00	48.00 AV	68.20	-20.20	1.58 H	49	27.20	20.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	99.40 PK			1.00 V	299	53.00	46.40
2	*7115.00	88.20 AV			1.00 V	299	41.80	46.40
3	#7125.00	78.80 PK	88.20	-9.40	1.00 V	299	68.50	10.30
4	#7125.00	56.20 AV	68.20	-12.00	1.00 V	299	45.90	10.30
5	#14230.00	60.20 PK	88.20	-28.00	1.22 V	31	39.40	20.80
6	#14230.00	47.80 AV	68.20	-20.40	1.22 V	31	27.00	20.80

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RU52

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.60 PK	88.20	-28.60	2.27 H	316	52.30	7.30
2	#5925.00	45.60 AV	68.20	-22.60	2.27 H	316	38.30	7.30
3	*5955.00	106.80 PK			2.27 H	316	63.70	43.10
4	*5955.00	95.10 AV			2.27 H	316	52.00	43.10
5	11910.00	56.80 PK	74.00	-17.20	1.59 H	52	41.00	15.80
6	11910.00	43.20 AV	54.00	-10.80	1.59 H	52	27.40	15.80

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.00 PK	88.20	-29.20	1.10 V	321	51.70	7.30
2	#5925.00	45.40 AV	68.20	-22.80	1.10 V	321	38.10	7.30
3	*5955.00	105.10 PK			1.10 V	321	62.00	43.10
4	*5955.00	92.40 AV			1.10 V	321	49.30	43.10
5	11910.00	56.30 PK	74.00	-17.70	1.36 V	18	40.50	15.80
6	11910.00	42.90 AV	54.00	-11.10	1.36 V	18	27.10	15.80

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.50 PK	88.20	-29.70	2.43 H	316	51.20	7.30
2	#5925.00	45.30 AV	68.20	-22.90	2.43 H	316	38.00	7.30
3	*6415.00	105.30 PK			2.43 H	316	61.40	43.90
4	*6415.00	94.30 AV			2.43 H	316	50.40	43.90
5	#12830.00	58.40 PK	88.20	-29.80	1.57 H	55	40.30	18.10
6	#12830.00	46.00 AV	68.20	-22.20	1.57 H	55	27.90	18.10

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.50 PK	88.20	-29.70	1.06 V	312	51.20	7.30
2	#5925.00	44.90 AV	68.20	-23.30	1.06 V	312	37.60	7.30
3	*6415.00	102.40 PK			1.06 V	312	58.50	43.90
4	*6415.00	90.40 AV			1.06 V	312	46.50	43.90
5	#12830.00	57.90 PK	88.20	-30.30	1.24 V	23	39.80	18.10
6	#12830.00	45.60 AV	68.20	-22.60	1.24 V	23	27.50	18.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	106.80 PK			2.13 H	311	62.80	44.00
2	*6435.00	95.50 AV			2.13 H	311	51.50	44.00
3	#12870.00	58.40 PK	88.20	-29.80	1.52 H	41	40.10	18.30
4	#12870.00	45.70 AV	68.20	-22.50	1.52 H	41	27.40	18.30
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	103.30 PK			1.11 V	307	59.30	44.00
2	*6435.00	89.40 AV			1.11 V	307	45.40	44.00
3	#12870.00	58.10 PK	88.20	-30.10	1.21 V	33	39.80	18.30
4	#12870.00	45.20 AV	68.20	-23.00	1.21 V	33	26.90	18.30

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	107.90 PK			2.45 H	310	63.20	44.70
2	*6535.00	95.40 AV			2.45 H	310	50.70	44.70
3	#13070.00	58.70 PK	88.20	-29.50	1.44 H	55	40.20	18.50
4	#13070.00	46.10 AV	68.20	-22.10	1.44 H	55	27.60	18.50
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	104.60 PK			1.09 V	322	59.90	44.70
2	*6535.00	89.50 AV			1.09 V	322	44.80	44.70
3	#13070.00	58.60 PK	88.20	-29.60	1.31 V	60	40.10	18.50
4	#13070.00	45.80 AV	68.20	-22.40	1.31 V	60	27.30	18.50

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	106.20 PK			2.42 H	309	61.40	44.80
2	*6855.00	95.00 AV			2.42 H	309	50.20	44.80
3	#13710.00	60.10 PK	88.20	-28.10	1.48 H	59	40.10	20.00
4	#13710.00	47.80 AV	68.20	-20.40	1.48 H	59	27.80	20.00
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	101.10 PK			1.07 V	316	56.30	44.80
2	*6855.00	88.80 AV			1.07 V	316	44.00	44.80
3	#13710.00	60.00 PK	88.20	-28.20	1.28 V	39	40.00	20.00
4	#13710.00	47.40 AV	68.20	-20.80	1.28 V	39	27.40	20.00

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 213 : 7015 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	97.00 PK			2.39 H	313	50.90	46.10
2	*7015.00	85.00 AV			2.39 H	313	38.90	46.10
3	#14030.00	61.10 PK	88.20	-27.10	1.50 H	56	39.70	21.40
4	#14030.00	48.40 AV	68.20	-19.80	1.50 H	56	27.00	21.40
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	90.10 PK			1.12 V	297	44.00	46.10
2	*7015.00	78.00 AV			1.12 V	297	31.90	46.10
3	#14030.00	60.70 PK	88.20	-27.50	1.24 V	46	39.30	21.40
4	#14030.00	47.80 AV	68.20	-20.40	1.24 V	46	26.40	21.40

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	96.90 PK			2.36 H	310	50.50	46.40
2	*7115.00	84.80 AV			2.36 H	310	38.40	46.40
3	#7125.00	80.50 PK	88.20	-7.70	2.36 H	310	70.20	10.30
4	#7125.00	67.40 AV	68.20	-0.80	2.36 H	310	57.10	10.30
5	#14230.00	61.00 PK	88.20	-27.20	1.56 H	50	40.20	20.80
6	#14230.00	48.20 AV	68.20	-20.00	1.56 H	50	27.40	20.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	89.90 PK			1.09 V	299	43.50	46.40
2	*7115.00	77.80 AV			1.09 V	299	31.40	46.40
3	#7125.00	76.40 PK	88.20	-11.80	1.09 V	299	66.10	10.30
4	#7125.00	61.50 AV	68.20	-6.70	1.09 V	299	51.20	10.30
5	#14230.00	60.60 PK	88.20	-27.60	1.23 V	36	39.80	20.80
6	#14230.00	47.90 AV	68.20	-20.30	1.23 V	36	27.10	20.80

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

RU106

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 1 : 5955 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.20 PK	88.20	-30.00	2.00 H	317	50.90	7.30
2	#5925.00	45.30 AV	68.20	-22.90	2.00 H	317	38.00	7.30
3	*5955.00	108.30 PK			2.00 H	317	65.20	43.10
4	*5955.00	96.10 AV			2.00 H	317	53.00	43.10
5	11910.00	56.60 PK	74.00	-17.40	1.57 H	51	40.80	15.80
6	11910.00	43.20 AV	54.00	-10.80	1.57 H	51	27.40	15.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	57.80 PK	88.20	-30.40	1.21 V	333	50.50	7.30
2	#5925.00	45.20 AV	68.20	-23.00	1.21 V	333	37.90	7.30
3	*5955.00	103.00 PK			1.21 V	333	59.90	43.10
4	*5955.00	90.20 AV			1.21 V	333	47.10	43.10
5	11910.00	56.30 PK	74.00	-17.70	1.29 V	35	40.50	15.80
6	11910.00	42.90 AV	54.00	-11.10	1.29 V	35	27.10	15.80

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 93 : 6415 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.10 PK	88.20	-29.10	2.12 H	318	51.80	7.30
2	#5925.00	45.20 AV	68.20	-23.00	2.12 H	318	37.90	7.30
3	*6415.00	104.00 PK			2.12 H	318	60.10	43.90
4	*6415.00	91.90 AV			2.12 H	318	48.00	43.90
5	#12830.00	58.60 PK	88.20	-29.60	1.43 H	47	40.50	18.10
6	#12830.00	45.90 AV	68.20	-22.30	1.43 H	47	27.80	18.10
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	58.50 PK	88.20	-29.70	1.23 V	307	51.20	7.30
2	#5925.00	44.90 AV	68.20	-23.30	1.23 V	307	37.60	7.30
3	*6415.00	100.60 PK			1.23 V	307	56.70	43.90
4	*6415.00	88.50 AV			1.23 V	307	44.60	43.90
5	#12830.00	57.80 PK	88.20	-30.40	1.40 V	32	39.70	18.10
6	#12830.00	45.40 AV	68.20	-22.80	1.40 V	32	27.30	18.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 97 : 6435 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	104.00 PK			2.11 H	306	60.00	44.00
2	*6435.00	91.90 AV			2.11 H	306	47.90	44.00
3	#12870.00	58.80 PK	88.20	-29.40	1.44 H	38	40.50	18.30
4	#12870.00	45.40 AV	68.20	-22.80	1.44 H	38	27.10	18.30
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6435.00	101.10 PK			1.21 V	321	57.10	44.00
2	*6435.00	86.20 AV			1.21 V	321	42.20	44.00
3	#12870.00	58.50 PK	88.20	-29.70	1.19 V	39	40.20	18.30
4	#12870.00	45.10 AV	68.20	-23.10	1.19 V	39	26.80	18.30

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 117 : 6535 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	104.70 PK			2.12 H	314	60.00	44.70
2	*6535.00	92.40 AV			2.12 H	314	47.70	44.70
3	#13070.00	58.80 PK	88.20	-29.40	1.50 H	50	40.30	18.50
4	#13070.00	46.10 AV	68.20	-22.10	1.50 H	50	27.60	18.50
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	102.30 PK			1.15 V	315	57.60	44.70
2	*6535.00	86.70 AV			1.15 V	315	42.00	44.70
3	#13070.00	58.50 PK	88.20	-29.70	1.28 V	32	40.00	18.50
4	#13070.00	45.80 AV	68.20	-22.40	1.28 V	32	27.30	18.50

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 181 : 6855 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	105.10 PK			2.07 H	310	60.30	44.80
2	*6855.00	92.40 AV			2.07 H	310	47.60	44.80
3	#13710.00	60.30 PK	88.20	-27.90	1.44 H	48	40.30	20.00
4	#13710.00	47.90 AV	68.20	-20.30	1.44 H	48	27.90	20.00
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	102.70 PK			1.09 V	317	57.90	44.80
2	*6855.00	87.30 AV			1.09 V	317	42.50	44.80
3	#13710.00	59.90 PK	88.20	-28.30	1.23 V	41	39.90	20.00
4	#13710.00	47.50 AV	68.20	-20.70	1.23 V	41	27.50	20.00

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 213 : 7015 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	96.90 PK			2.07 H	323	50.80	46.10
2	*7015.00	84.40 AV			2.07 H	323	38.30	46.10
3	#14030.00	60.10 PK	88.20	-28.10	1.55 H	49	38.70	21.40
4	#14030.00	47.40 AV	68.20	-20.80	1.55 H	49	26.00	21.40
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7015.00	89.90 PK			1.00 V	294	43.80	46.10
2	*7015.00	77.60 AV			1.00 V	294	31.50	46.10
3	#14030.00	59.90 PK	88.20	-28.30	1.29 V	32	38.50	21.40
4	#14030.00	47.50 AV	68.20	-20.70	1.29 V	32	26.10	21.40

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 233 : 7115 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	96.80 PK			2.05 H	310	50.40	46.40
2	*7115.00	84.60 AV			2.05 H	310	38.20	46.40
3	#7125.00	79.40 PK	88.20	-8.80	2.05 H	310	69.10	10.30
4	#7125.00	67.20 AV	68.20	-1.00	2.05 H	310	56.90	10.30
5	#14230.00	60.30 PK	88.20	-27.90	1.58 H	44	39.50	20.80
6	#14230.00	47.60 AV	68.20	-20.60	1.58 H	44	26.80	20.80
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*7115.00	90.00 PK			1.00 V	300	43.60	46.40
2	*7115.00	77.70 AV			1.00 V	300	31.30	46.40
3	#7125.00	69.30 PK	88.20	-18.90	1.00 V	300	59.00	10.30
4	#7125.00	52.00 AV	68.20	-16.20	1.00 V	300	41.70	10.30
5	#14230.00	60.00 PK	88.20	-28.20	1.31 V	28	39.20	20.80
6	#14230.00	47.30 AV	68.20	-20.90	1.31 V	28	26.50	20.80

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

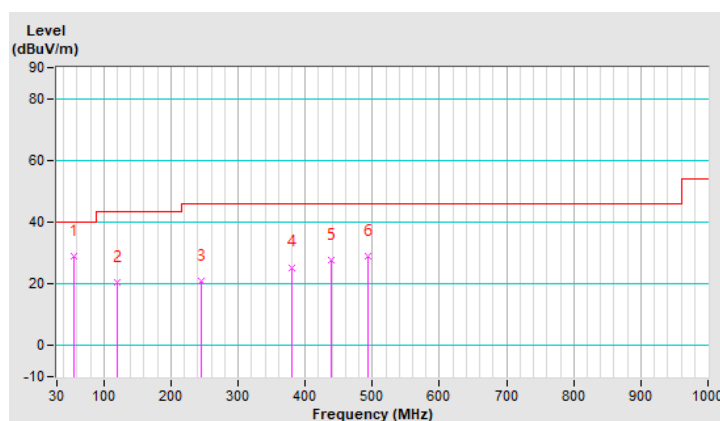
Below 1GHz Data:

RF Mode	TX 802.11ax (HE80)	Channel	CH 167 : 6785 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	55.30	28.8 QP	40.0	-11.2	1.49 H	17	37.9	-9.1
2	119.97	20.7 QP	43.5	-22.8	1.49 H	317	31.6	-10.9
3	245.09	21.1 QP	46.0	-24.9	1.00 H	12	29.9	-8.8
4	380.04	25.4 QP	46.0	-20.6	1.49 H	253	30.4	-5.0
5	439.09	27.7 QP	46.0	-18.3	1.00 H	208	31.2	-3.5
6	493.91	29.0 QP	46.0	-17.0	2.00 H	15	31.5	-2.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

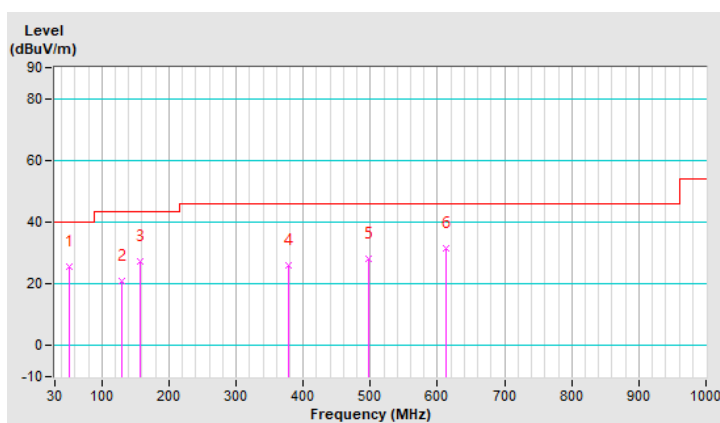


RF Mode	TX 802.11ax (HE80)	Channel	CH 167 : 6785 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.09	25.6 QP	40.0	-14.4	1.01 V	4	34.7	-9.1
2	129.81	20.9 QP	43.5	-22.6	2.00 V	87	30.9	-10.0
3	156.52	27.3 QP	43.5	-16.2	1.51 V	10	35.7	-8.4
4	378.64	25.9 QP	46.0	-20.1	2.00 V	321	30.9	-5.0
5	498.13	28.3 QP	46.0	-17.7	1.01 V	188	30.6	-2.3
6	612.00	31.4 QP	46.0	-14.6	1.01 V	291	30.7	0.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 In-Band Emission (Mask) Measurement

4.2.1 Limits of In-Band Emission (Mask) Measurement

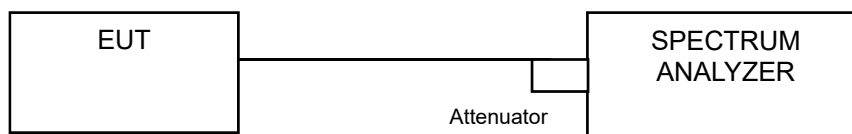
Test Item	Frequencies (MHz)	(X) dBc ^{*1}
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center ^{*2}	28
	At one- and one-half times the channel bandwidth away from channel center ^{*3}	40
	More than one- and one-half times the channel bandwidth	40

^{*1} : The power spectral density must be suppressed by "x" dB

^{*2} : At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

^{*3} : At frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

4.2.2 Test Setup



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

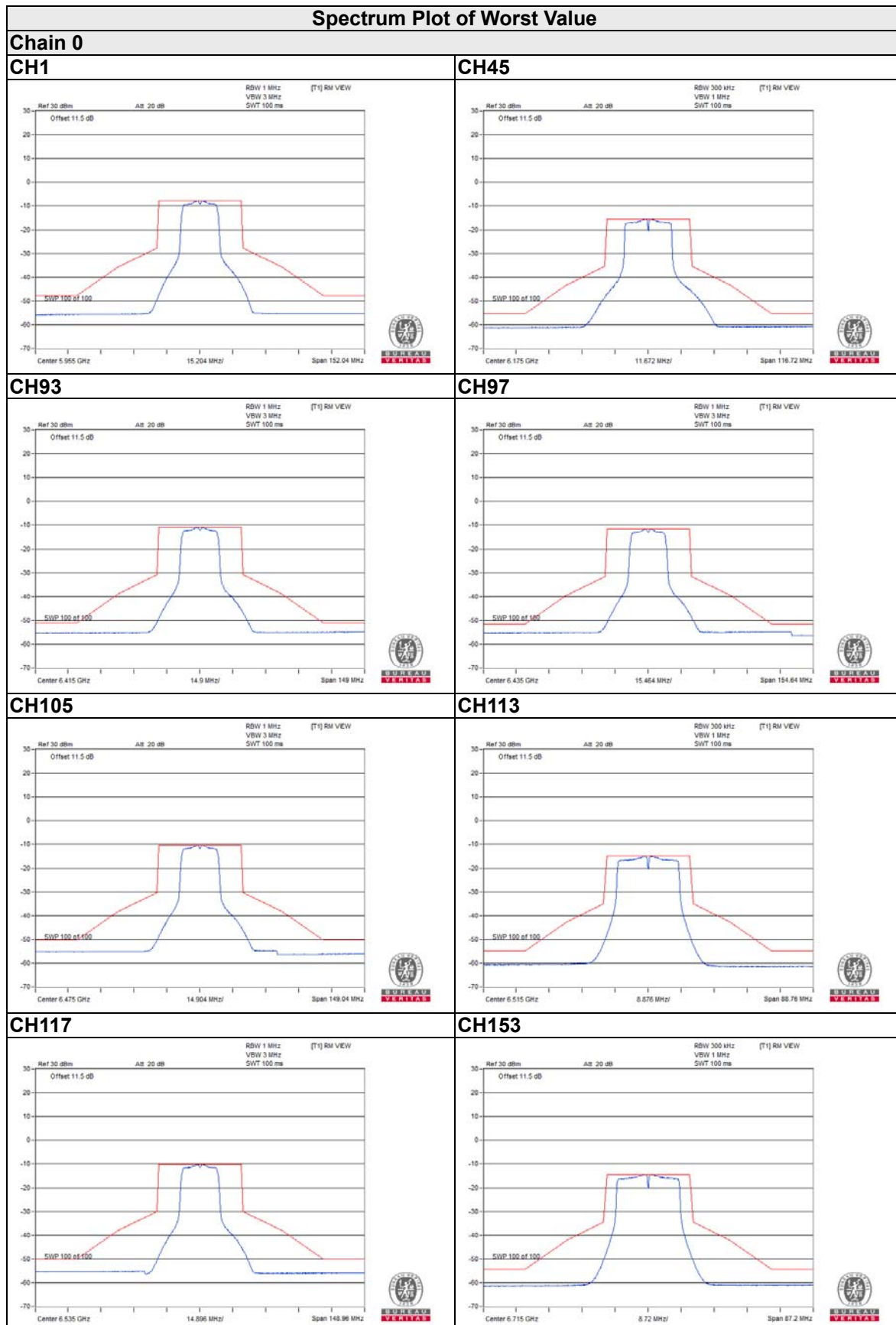
- a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)
- c. Measure the power spectral density (for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
- d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- e. Adjust the span to encompass the entire mask as necessary and clear trace.
- f. Trace average at least 100 traces in power averaging (rms) mode.
- g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

4.2.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.2.6 Test Results

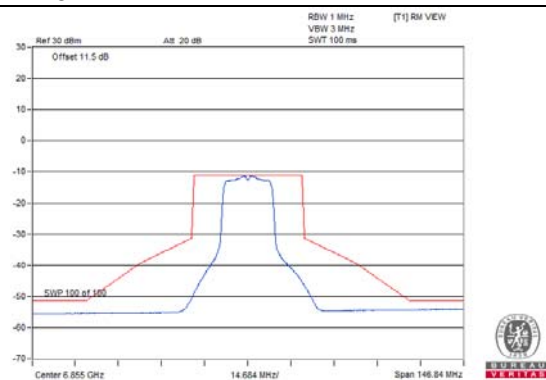
802.11a



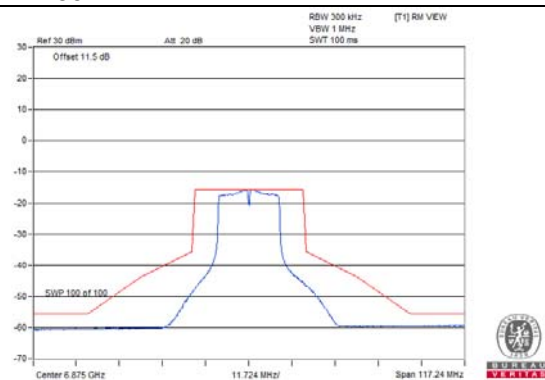
Spectrum Plot of Worst Value

Chain 0

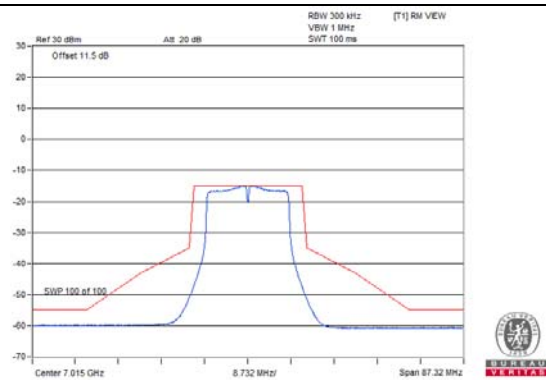
CH181



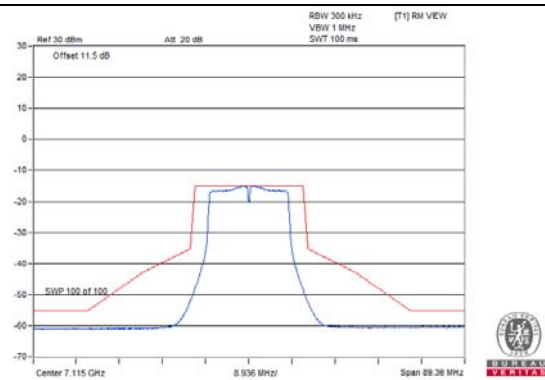
CH185



CH213



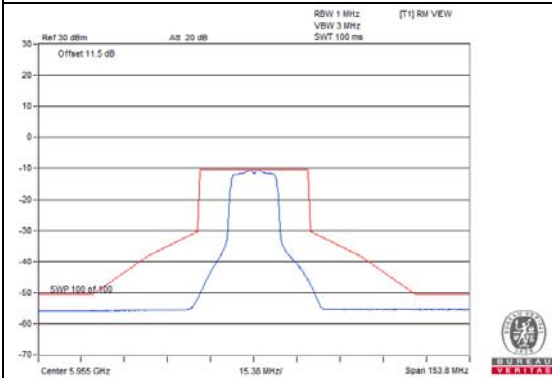
CH233



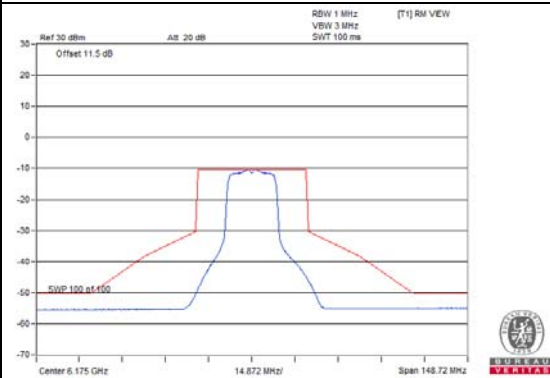
Spectrum Plot of Worst Value

Chain 1

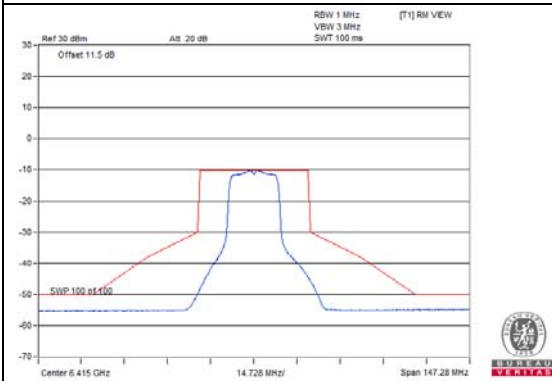
CH1



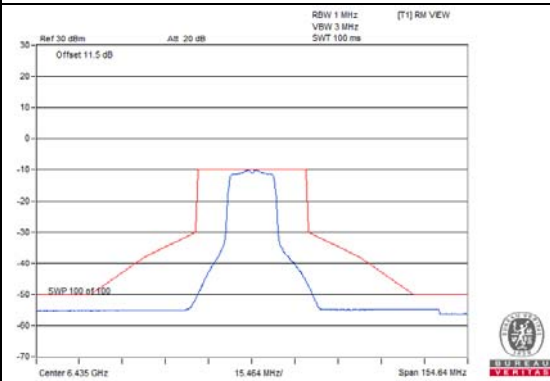
CH45



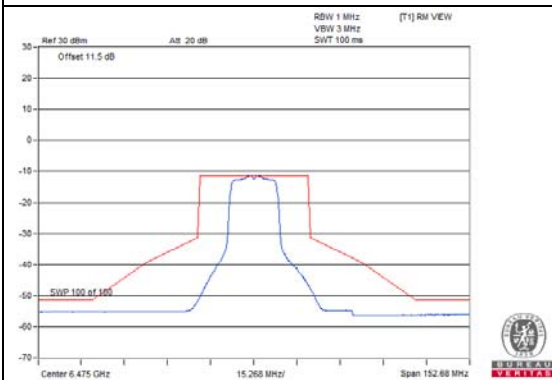
CH93



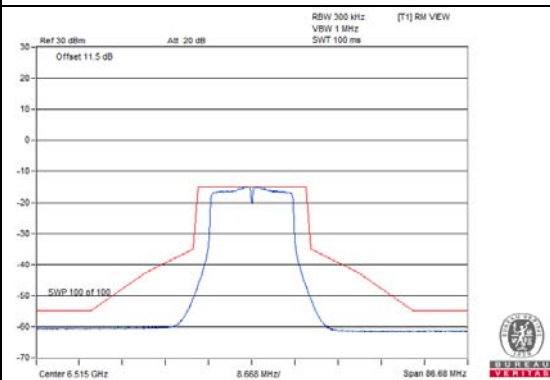
CH97



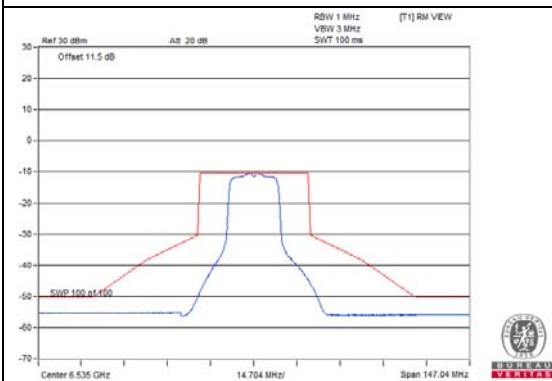
CH105



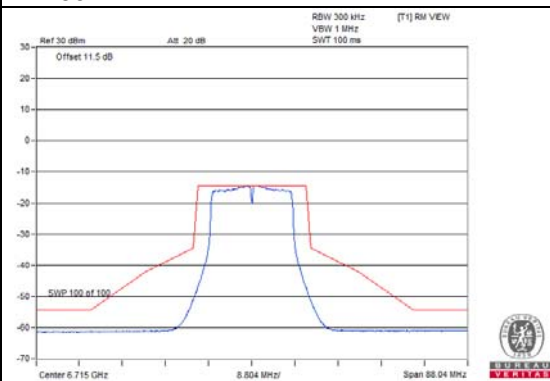
CH113



CH117



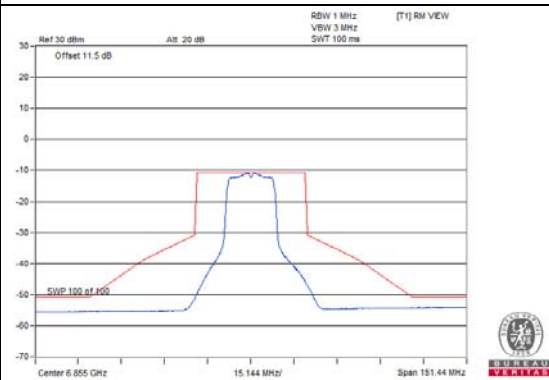
CH153



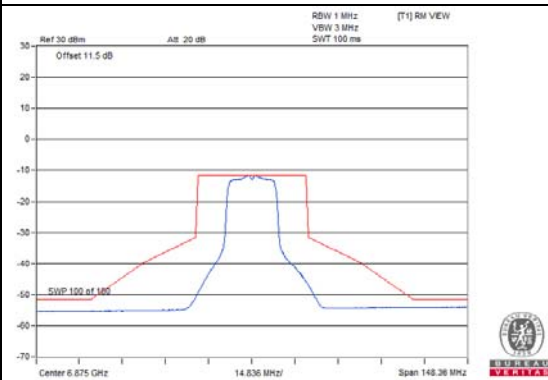
Spectrum Plot of Worst Value

Chain 1

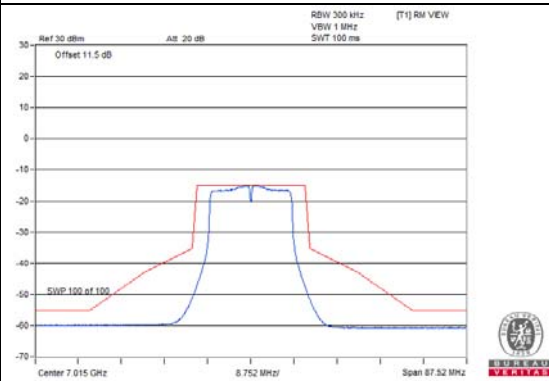
CH181



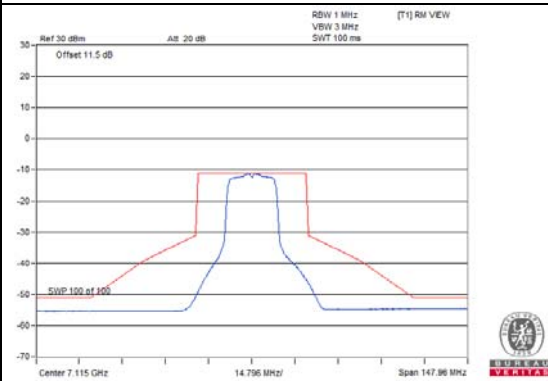
CH185



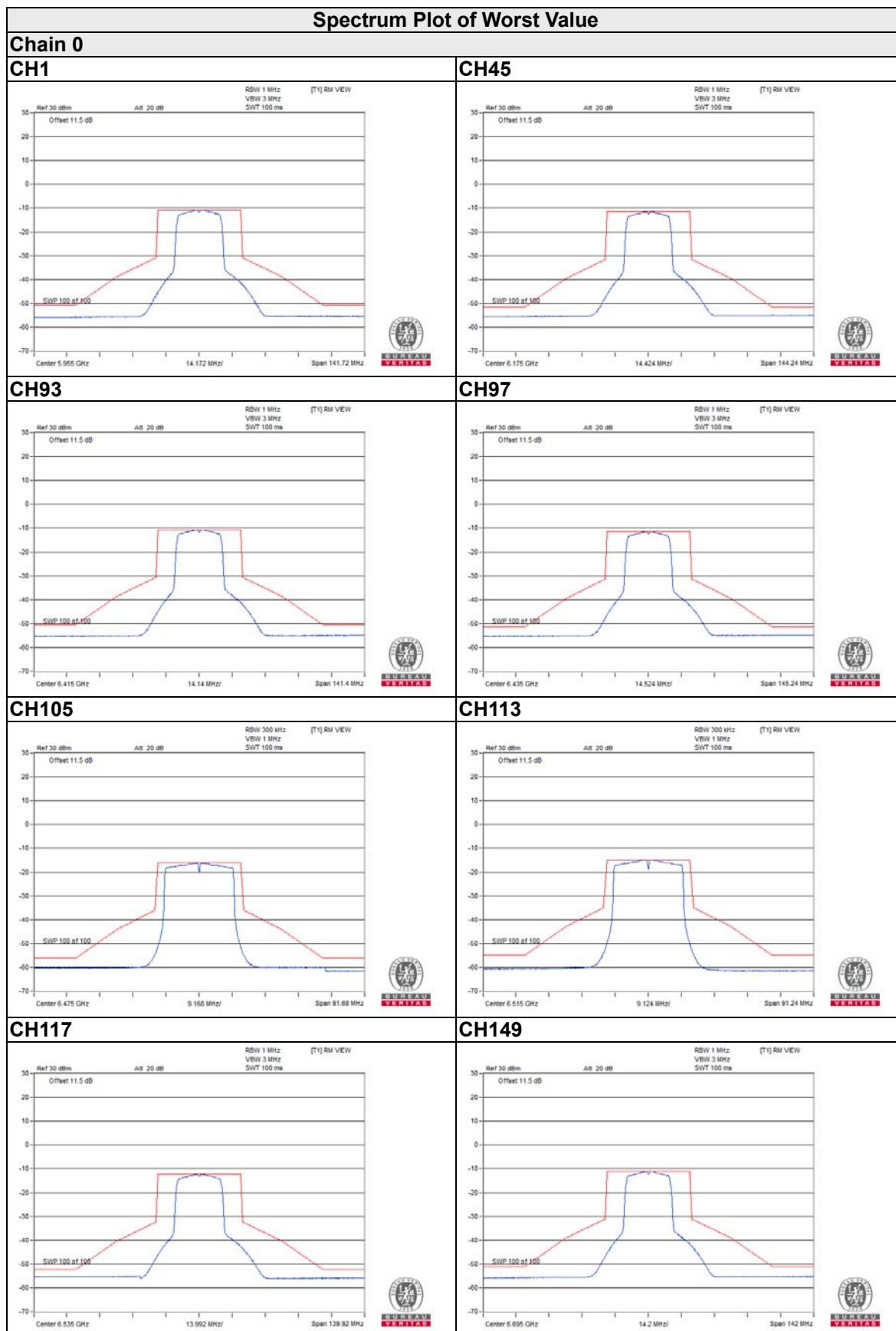
CH213



CH233



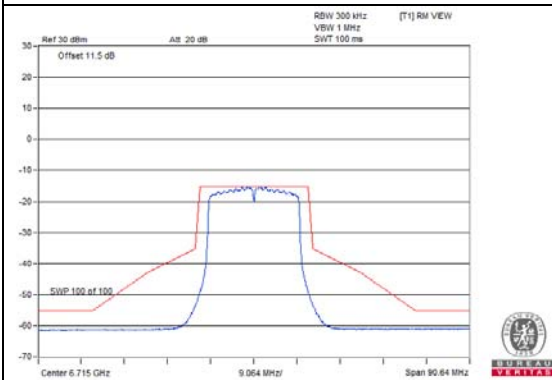
802.11ax (HE20)



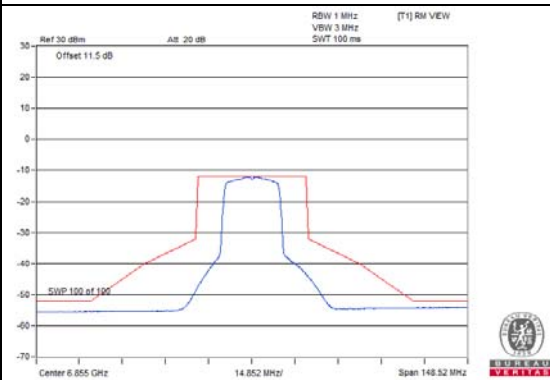
Spectrum Plot of Worst Value

Chain 0

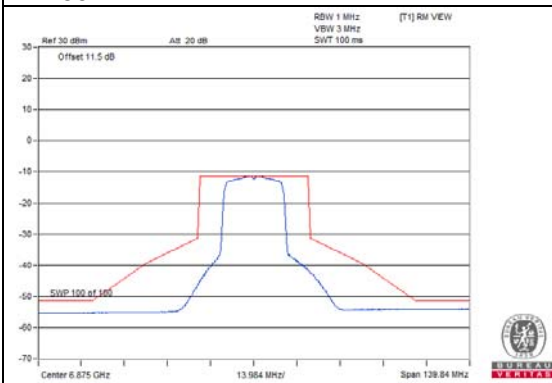
CH153



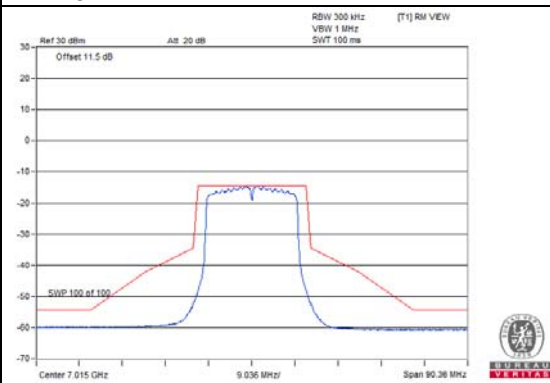
CH181



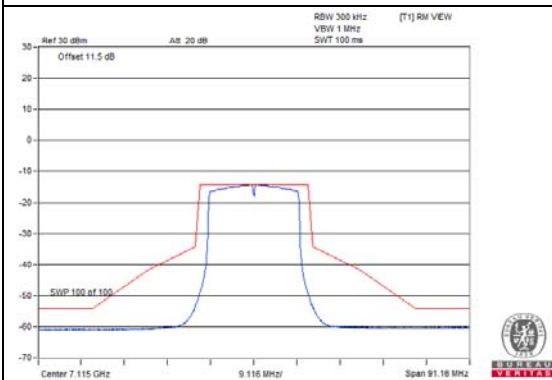
CH185



CH213



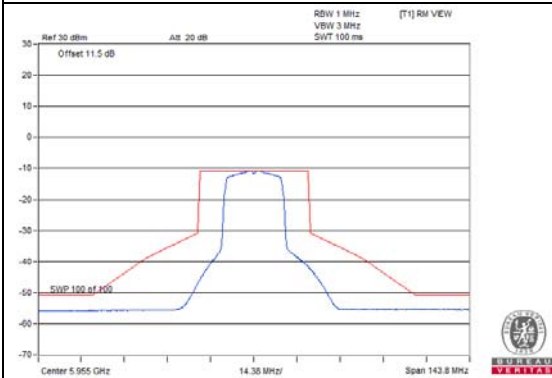
CH233



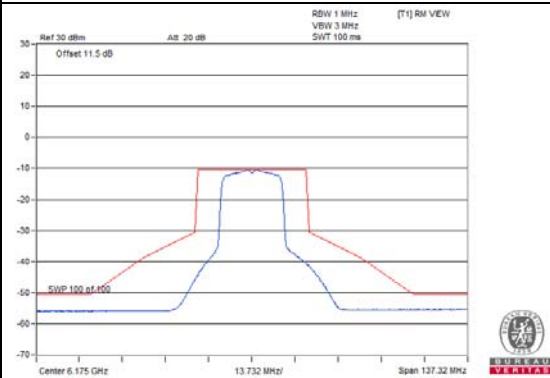
Spectrum Plot of Worst Value

Chain 1

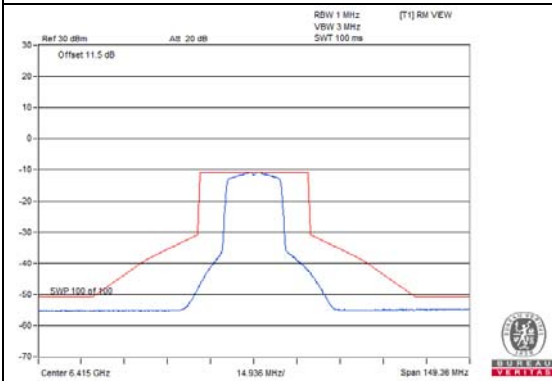
CH1



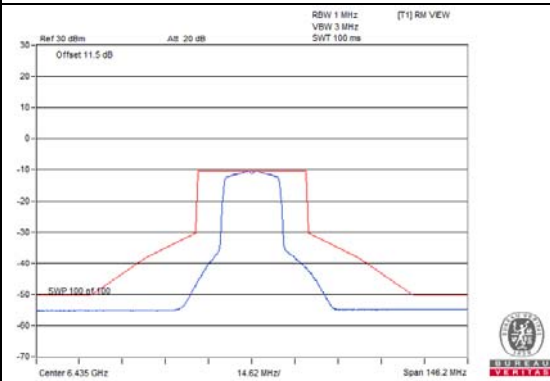
CH45



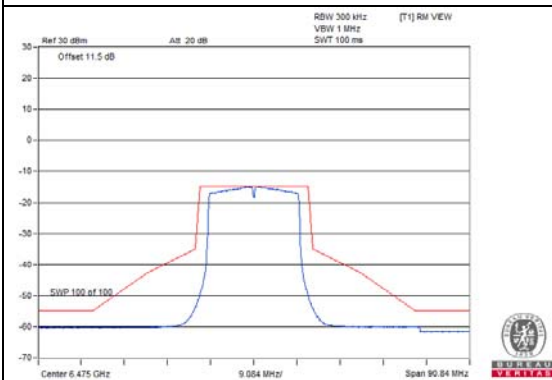
CH93



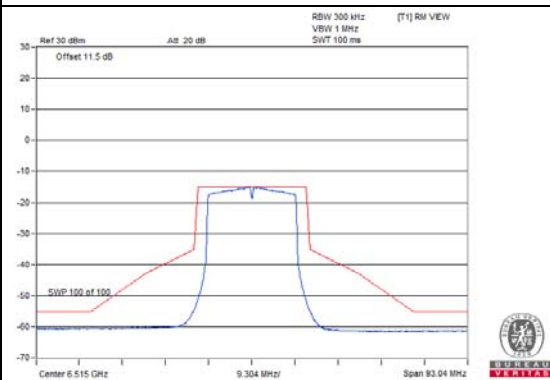
CH97



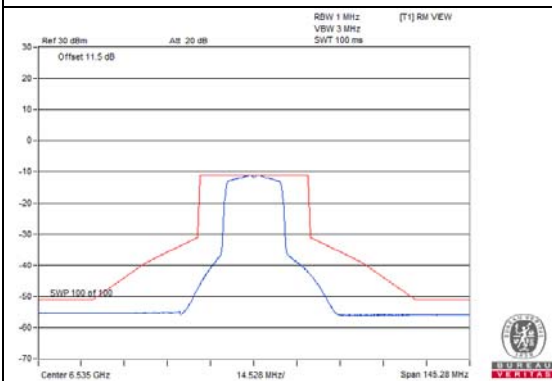
CH105



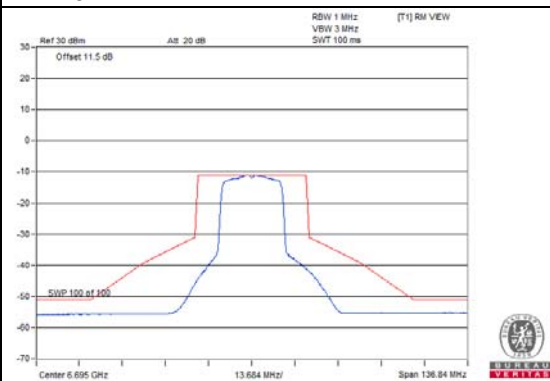
CH113



CH117



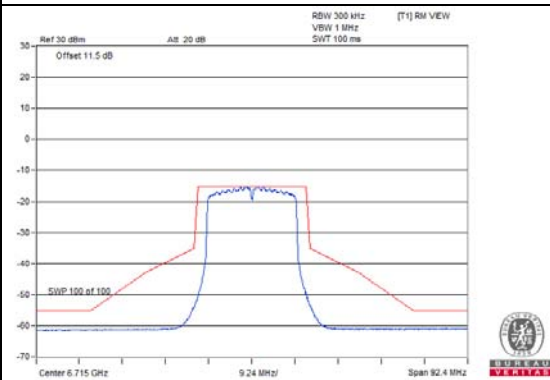
CH149



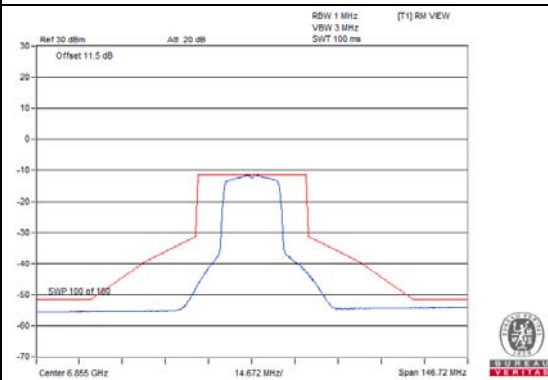
Spectrum Plot of Worst Value

Chain 1

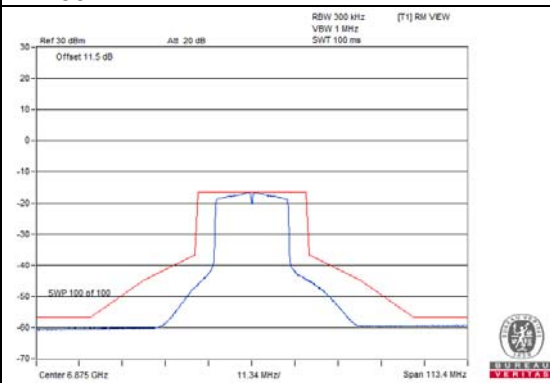
CH153



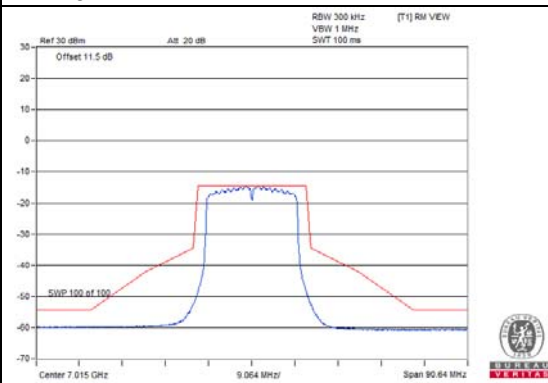
CH181



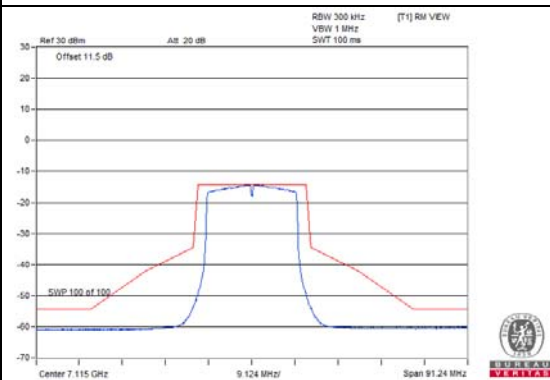
CH185



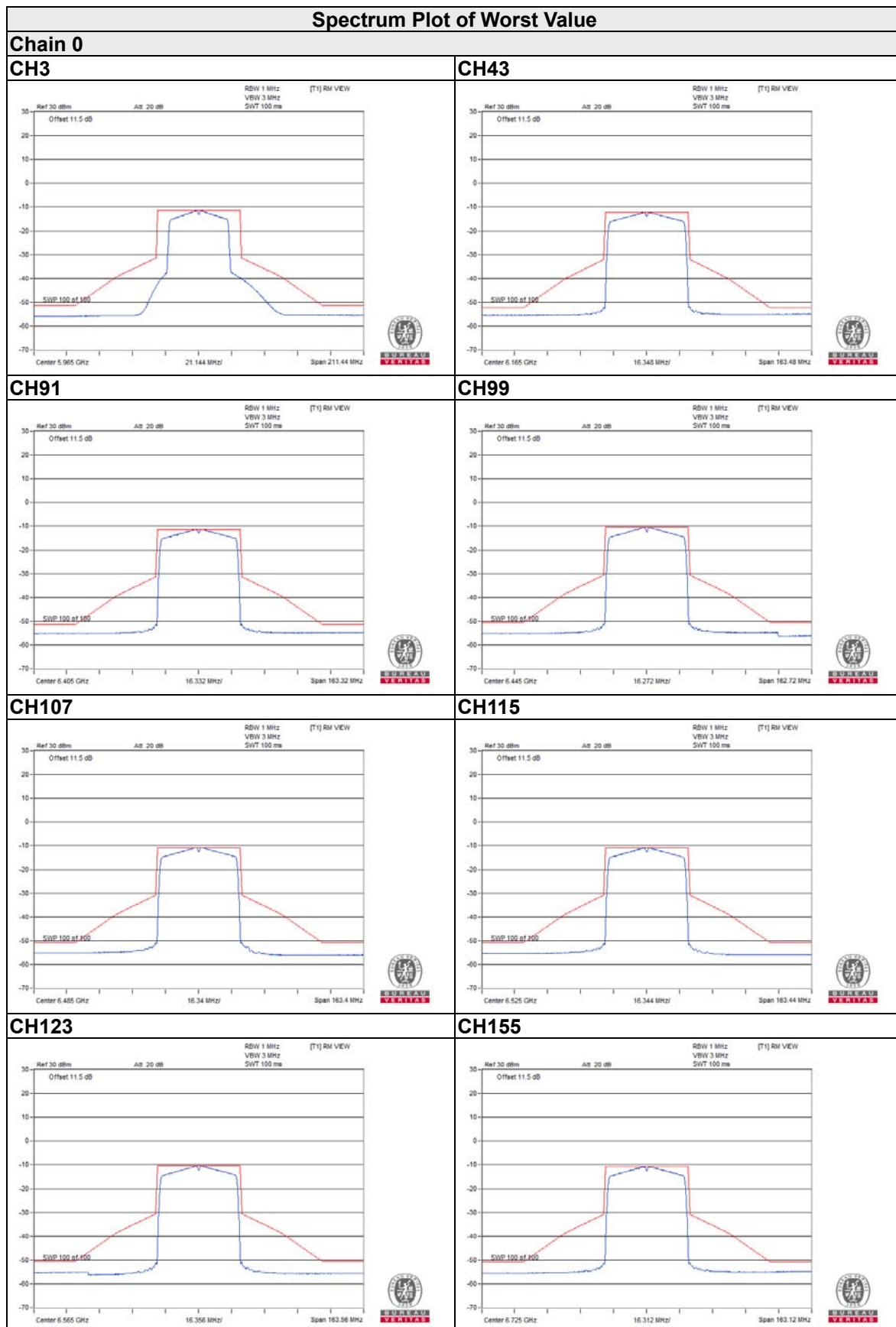
CH213



CH233



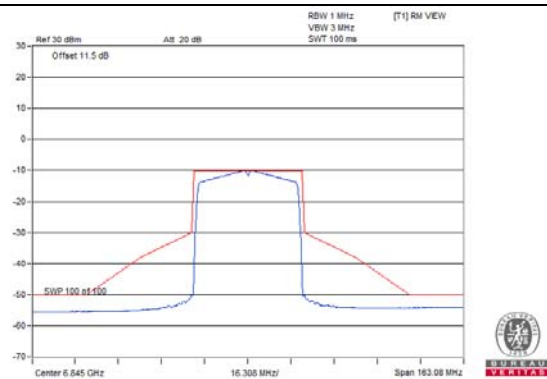
802.11ax (HE40)



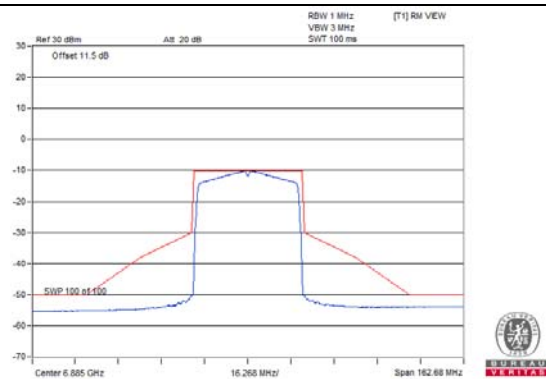
Spectrum Plot of Worst Value

Chain 0

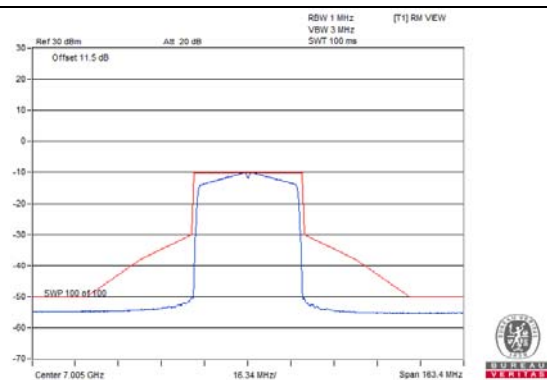
CH179



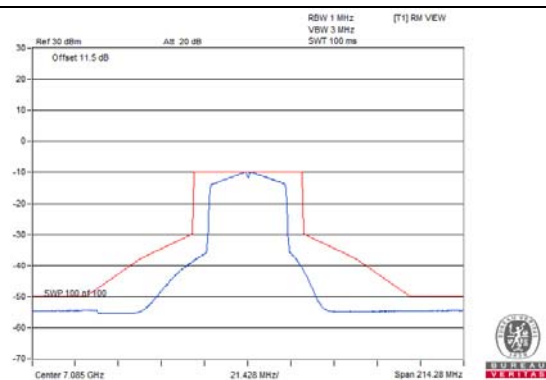
CH187



CH211



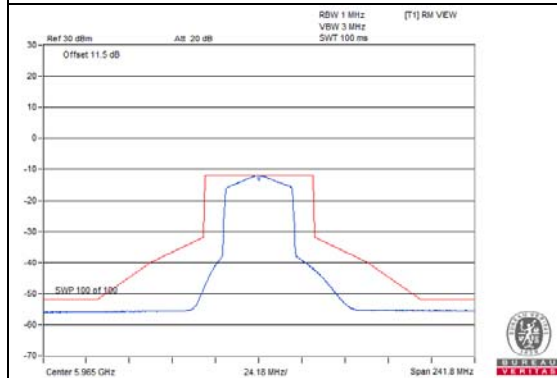
CH227



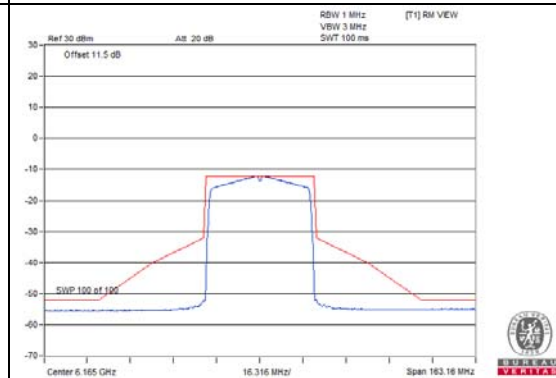
Spectrum Plot of Worst Value

Chain 1

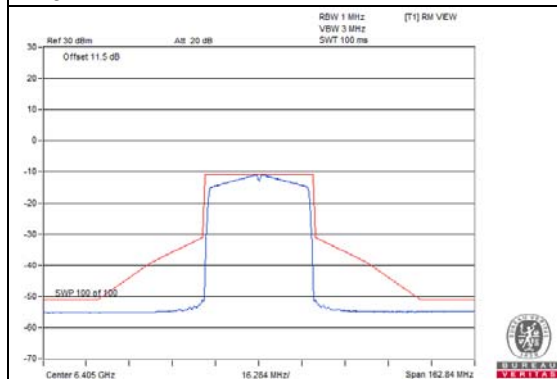
CH3



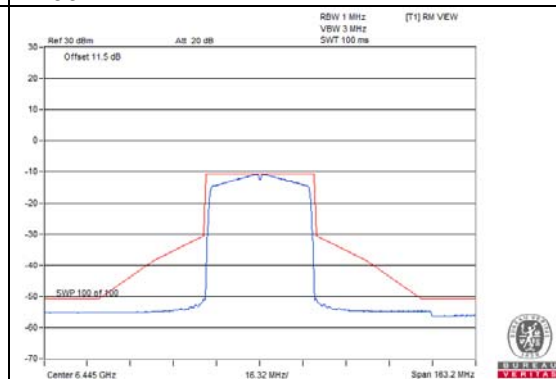
CH43



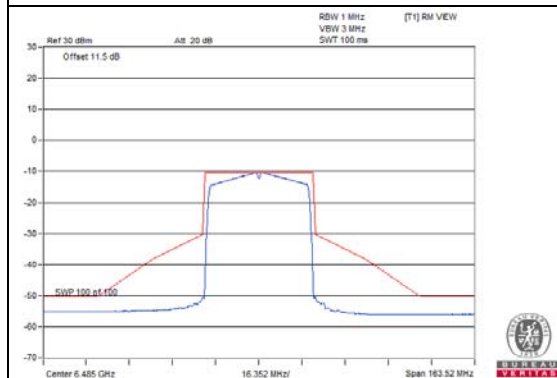
CH91



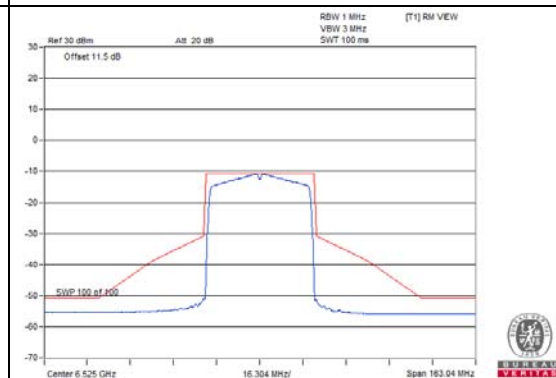
CH99



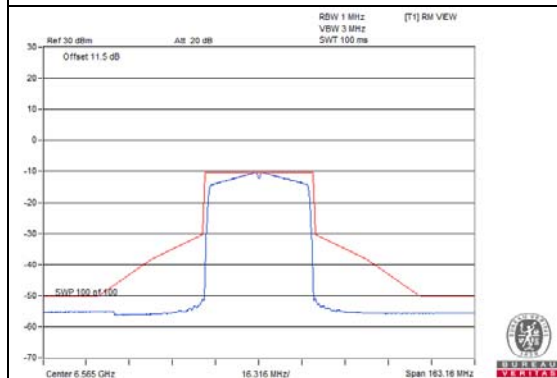
CH107



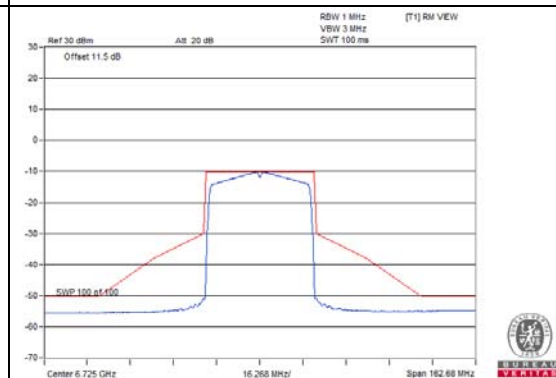
CH115



CH123



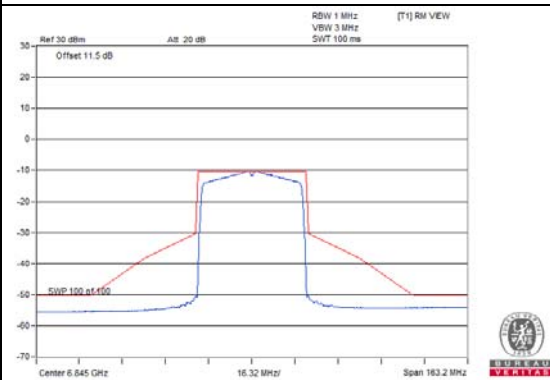
CH155



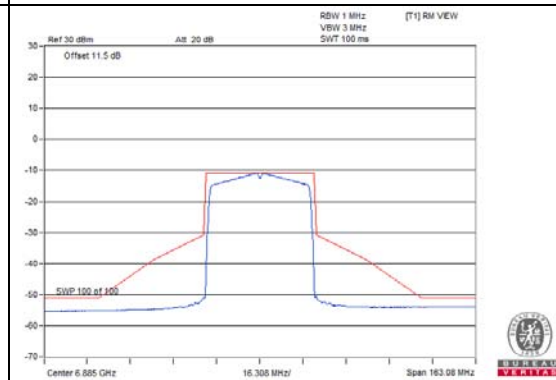
Spectrum Plot of Worst Value

Chain 1

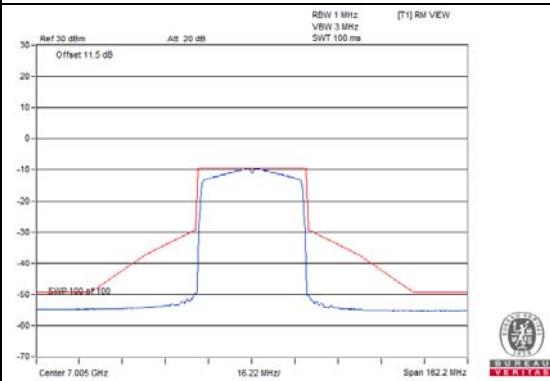
CH179



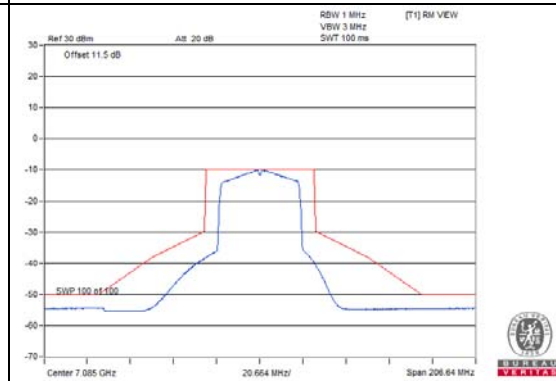
CH187



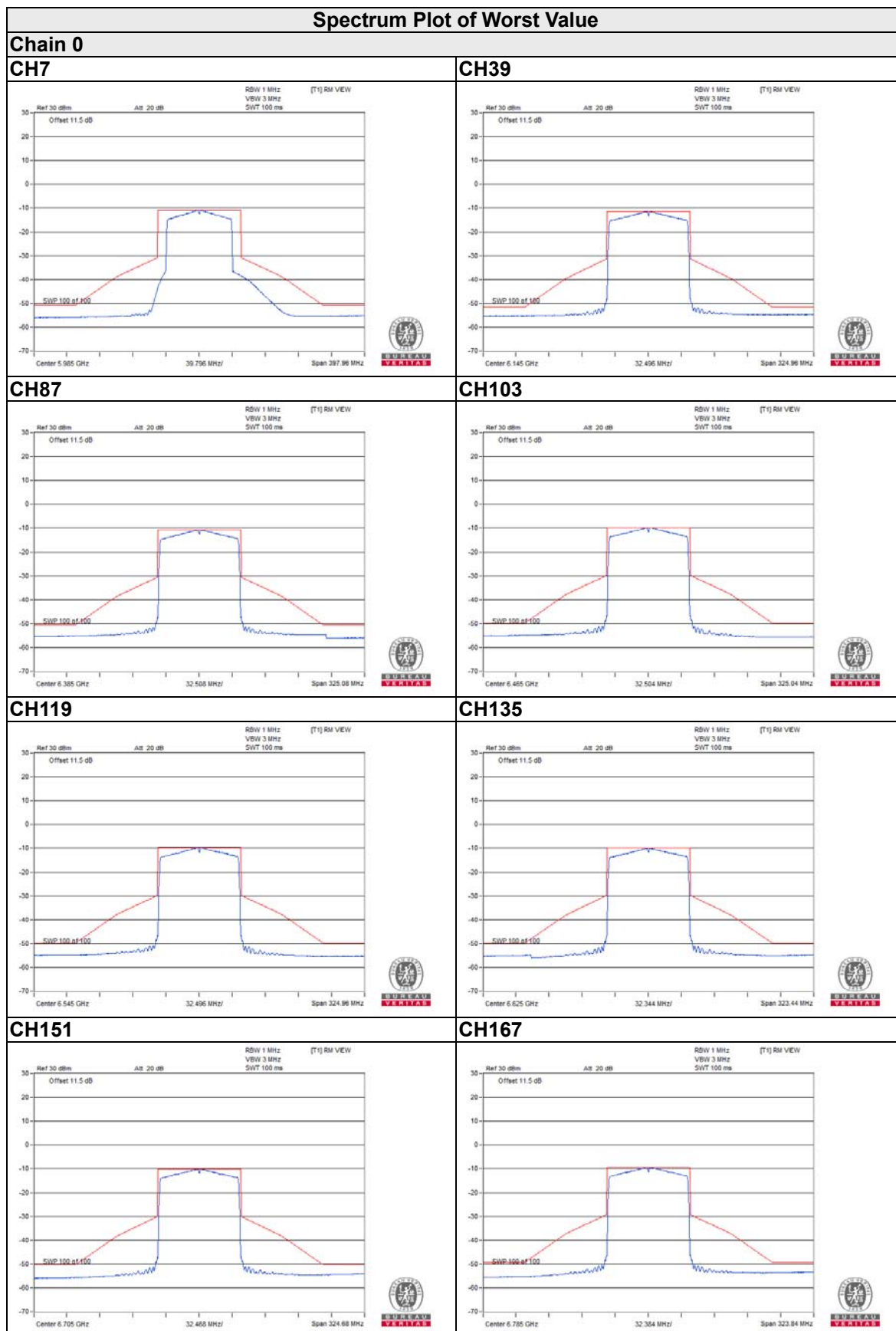
CH211



CH227



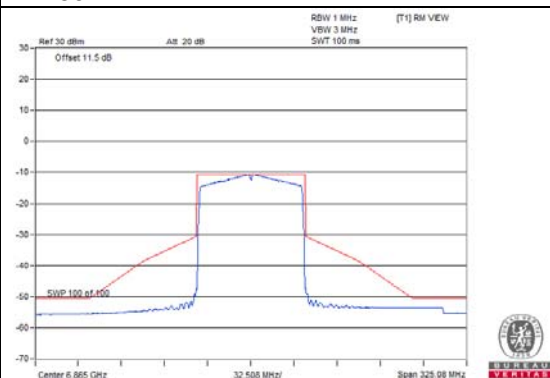
802.11ax (HE80)



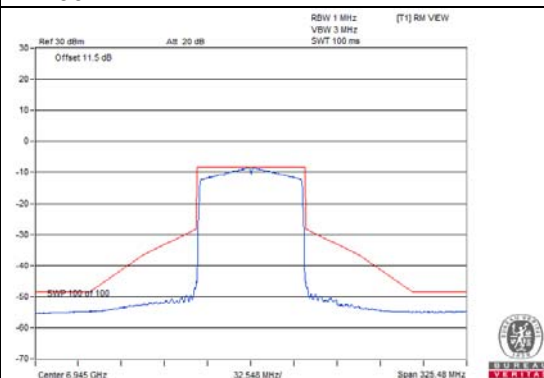
Spectrum Plot of Worst Value

Chain 0

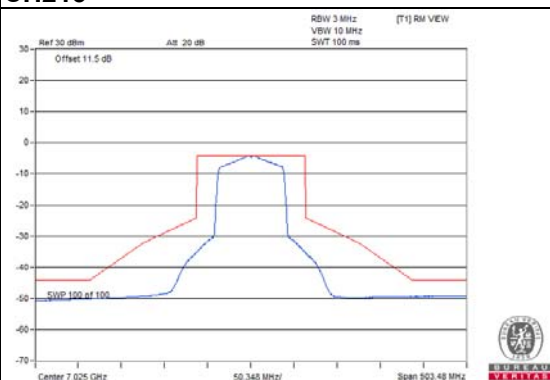
CH183



CH199



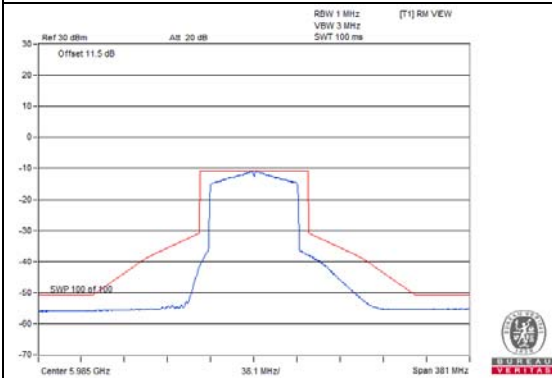
CH215



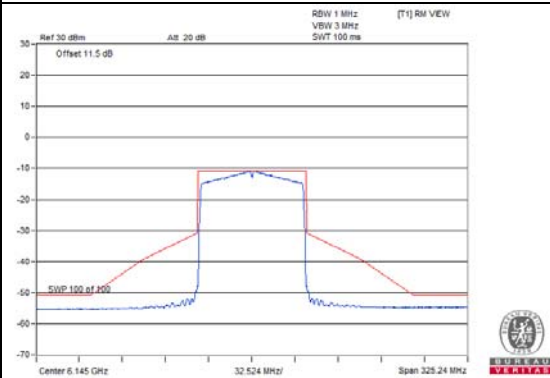
Spectrum Plot of Worst Value

Chain 1

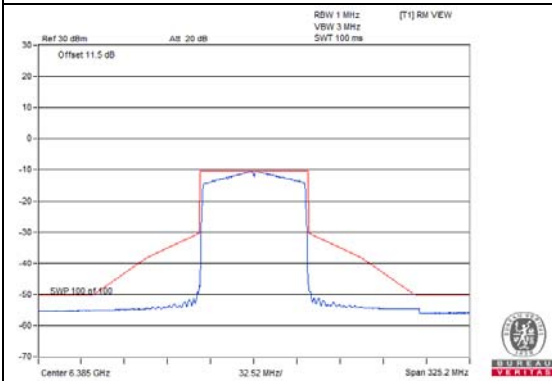
CH7



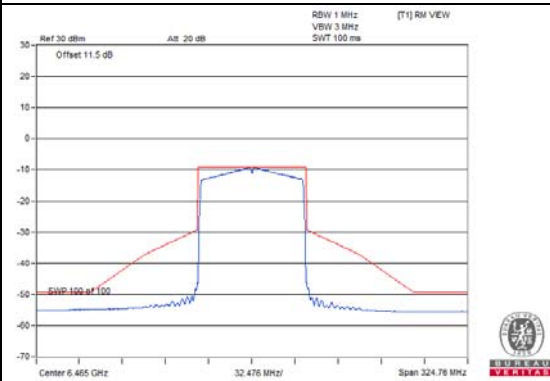
CH39



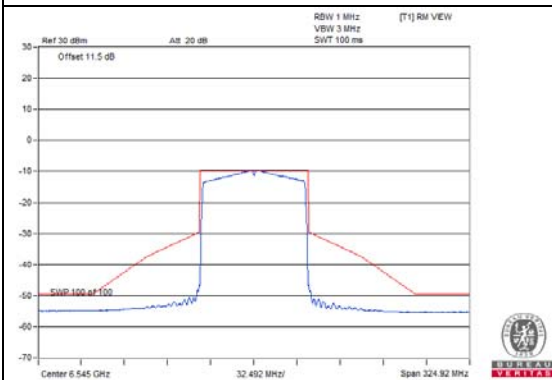
CH87



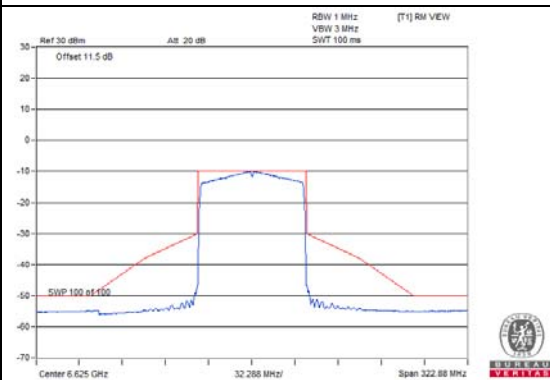
CH103



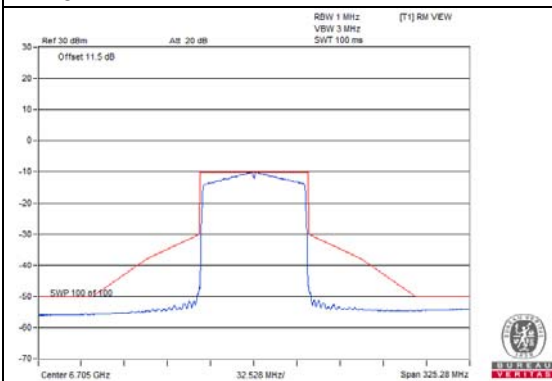
CH119



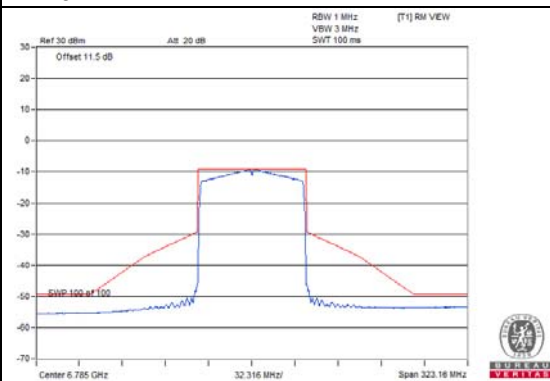
CH135



CH151



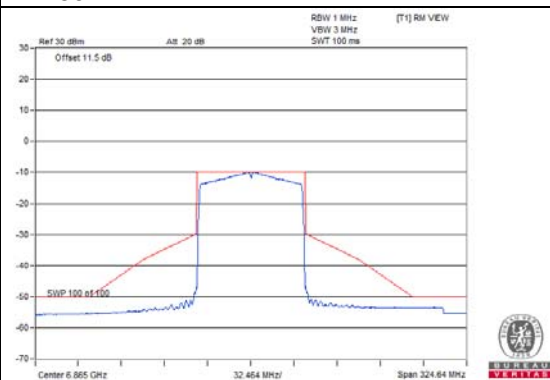
CH167



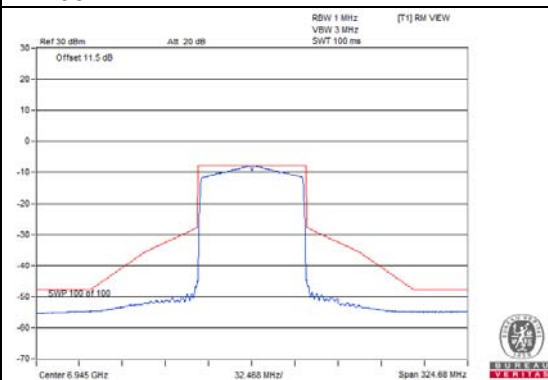
Spectrum Plot of Worst Value

Chain 1

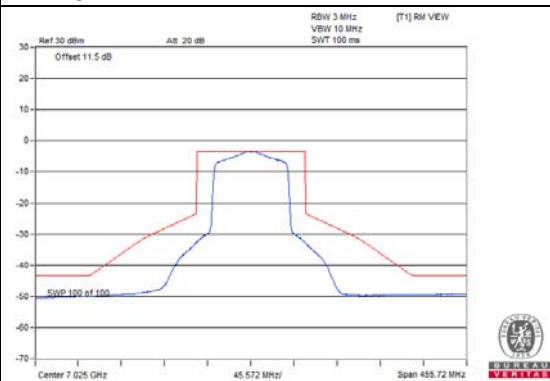
CH183



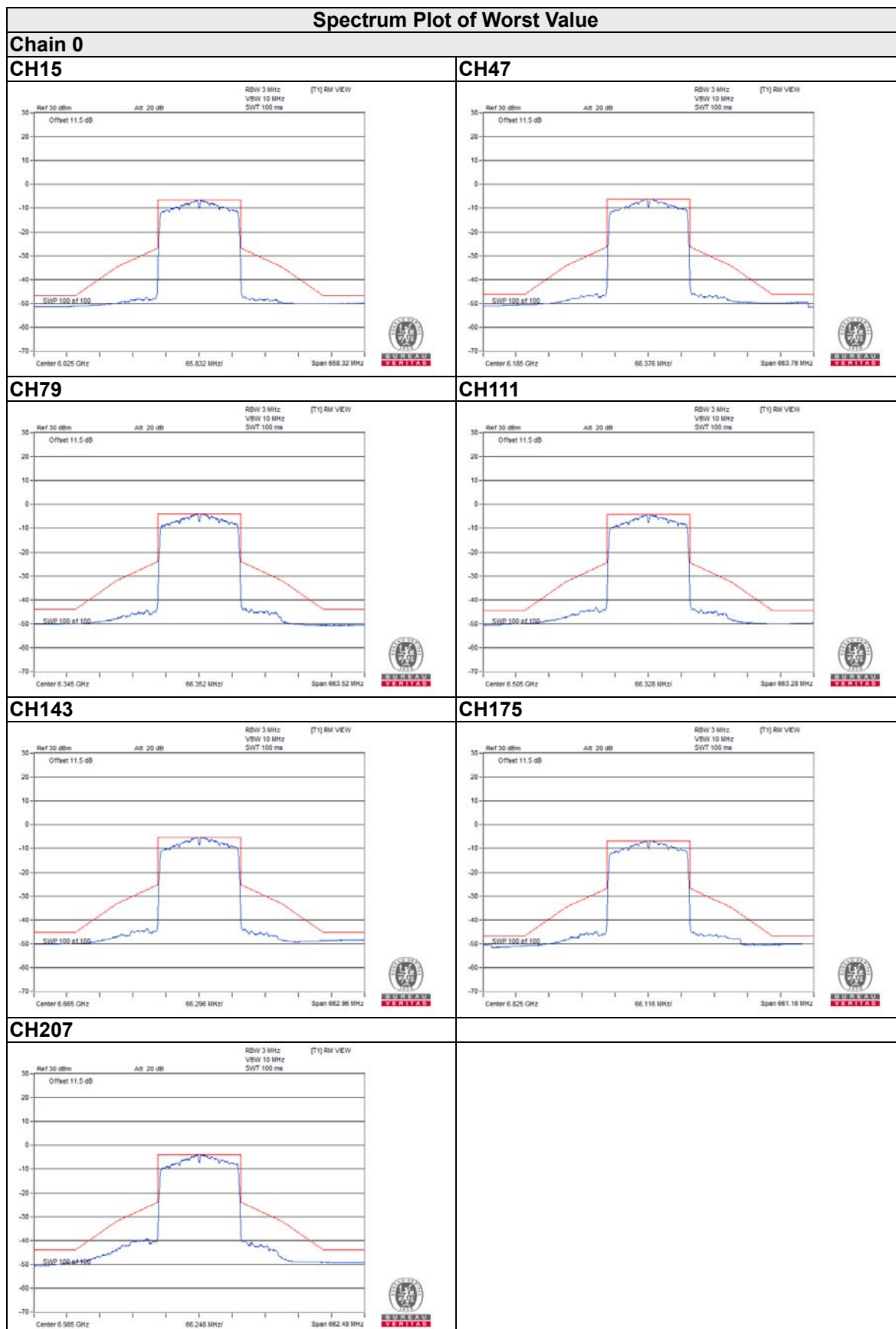
CH199



CH215



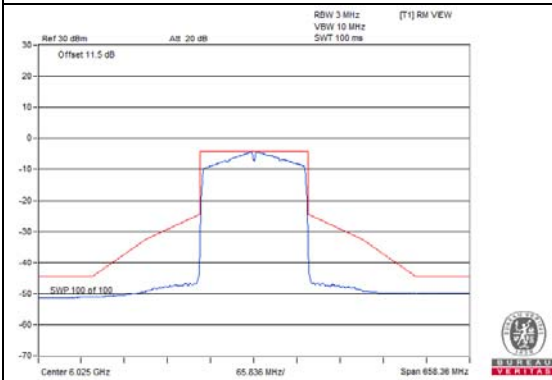
802.11ax (HE160)



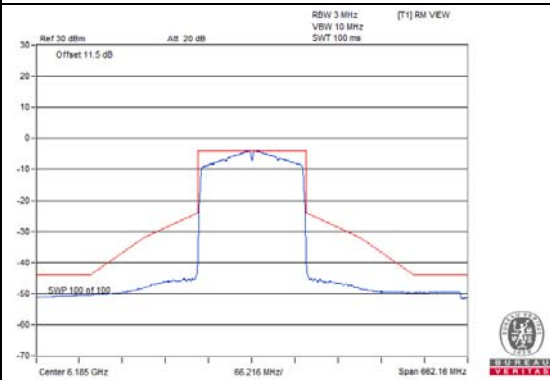
Spectrum Plot of Worst Value

Chain 1

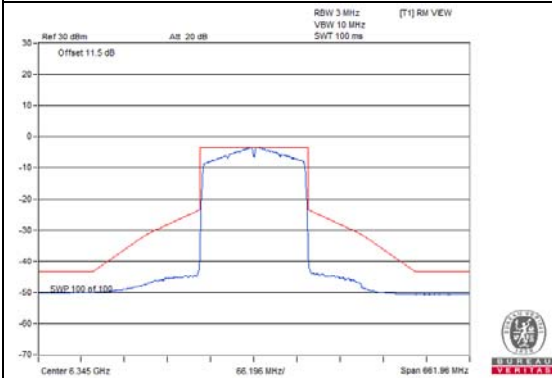
CH15



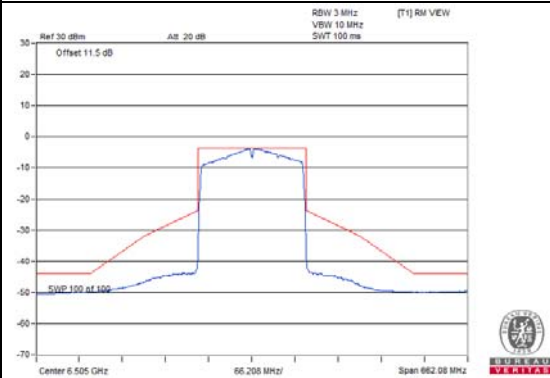
CH47



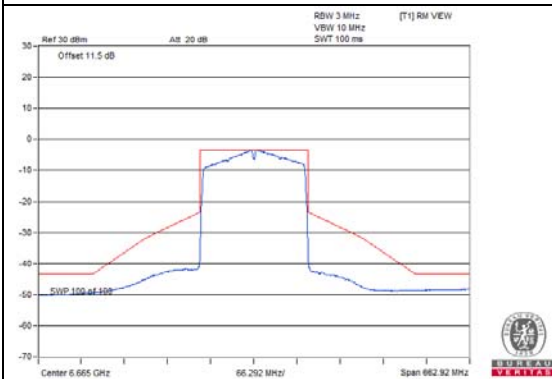
CH79



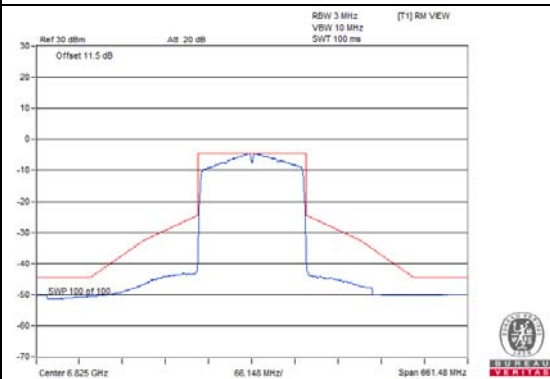
CH111



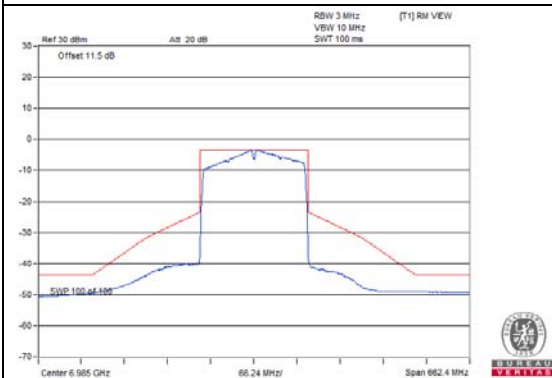
CH143



CH175



CH207



4.3 Conducted Emission Measurement

4.3.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.3.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 04, 2020	Dec. 03, 2021
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 16, 2021	Jan. 15, 2022
LISN/AMN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 25, 2021	Feb. 24, 2022
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 28, 2020	Aug. 27, 2021
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1 (Conduction 1).

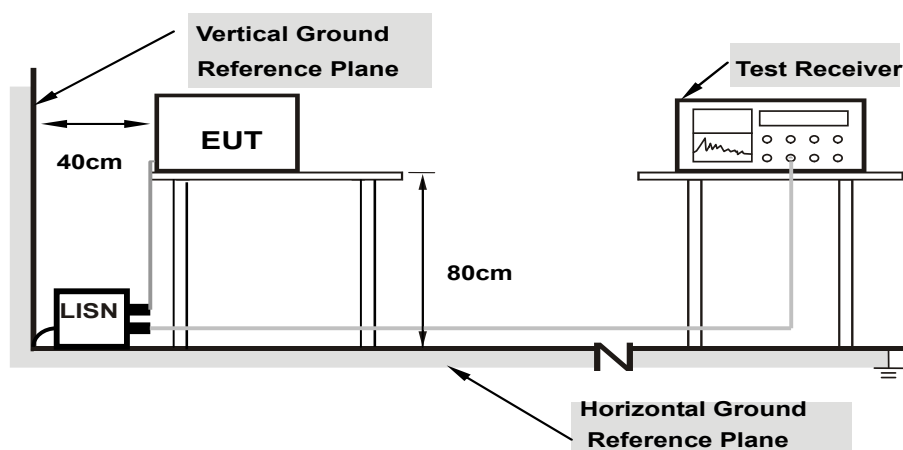
3. The VCCI Site Registration No. is C-12040.

4.3.3 Test Procedure

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.3.4 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.3.5 EUT Operating Condition

Same as 4.1.6.

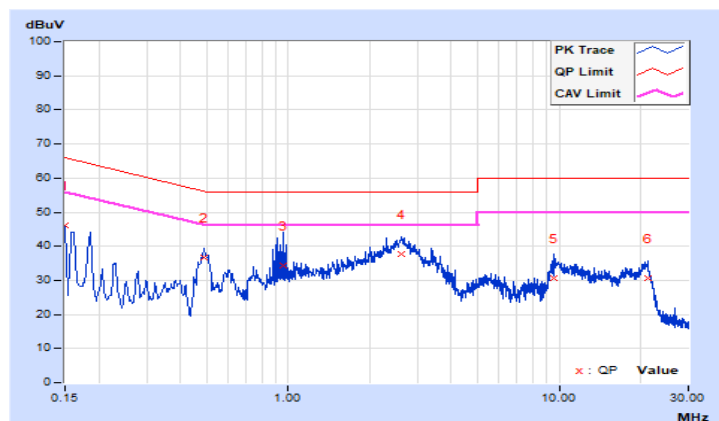
4.3.6 Test Results

RF Mode	TX 802.11ax (HE80)	Channel	CH 167 : 6785 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.71	36.34	20.60	46.05	30.31	66.00	56.00	-19.95	-25.69
2	0.49000	9.73	26.94	21.45	36.67	31.18	56.17	46.17	-19.50	-14.99
3	0.95400	9.76	24.60	15.38	34.36	25.14	56.00	46.00	-21.64	-20.86
4	2.62600	9.78	28.09	23.37	37.87	33.15	56.00	46.00	-18.13	-12.85
5	9.55800	9.85	20.92	15.70	30.77	25.55	60.00	50.00	-29.23	-24.45
6	21.20600	9.82	20.90	15.87	30.72	25.69	60.00	50.00	-29.28	-24.31

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

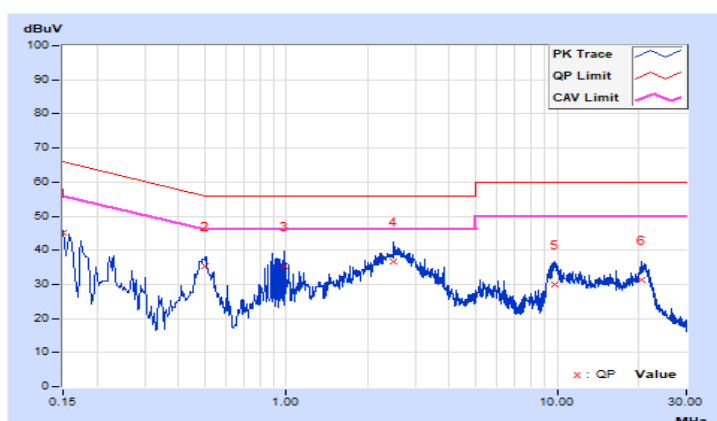


RF Mode	TX 802.11ax (HE80)	Channel	CH 167 : 6785 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.76	35.35	19.71	45.11	29.47	66.00	56.00	-20.89	-26.53
2	0.50200	9.80	25.68	21.11	35.48	30.91	56.00	46.00	-20.52	-15.09
3	0.97800	9.82	25.70	11.39	35.52	21.21	56.00	46.00	-20.48	-24.79
4	2.48200	9.83	26.92	22.24	36.75	32.07	56.00	46.00	-19.25	-13.93
5	9.86600	9.93	19.94	14.57	29.87	24.50	60.00	50.00	-30.13	-25.50
6	20.61800	9.99	21.47	16.43	31.46	26.42	60.00	50.00	-28.54	-23.58

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



4.4 Transmit Power Measurement

4.4.1 Limits of Transmit Power Measurement

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	EIRP 24 dBm

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

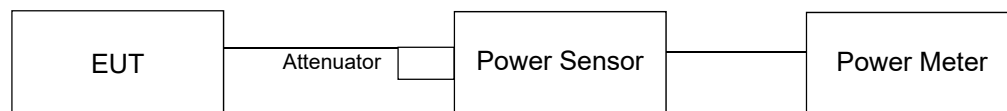
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.4.2 Test Setup

FOR POWER OUTPUT MEASUREMENT



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.4.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.6 Test Result

Power Output:

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
1	5955	1.01	0.75	2.450	3.89	4.76	7.328	8.65	24	Pass
45	6175	1.08	0.71	2.460	3.91	4.76	7.362	8.67	24	Pass
93	6415	1.25	1.08	2.616	4.18	4.76	7.834	8.94	24	Pass
97	6435	1.33	1.23	2.686	4.29	4.29	7.211	8.58	24	Pass
105	6475	1.48	1.21	2.727	4.36	4.29	7.328	8.65	24	Pass
113	6515	1.63	0.89	2.683	4.29	4.29	7.211	8.58	24	Pass
117	6535	1.35	1.11	2.656	4.24	4.61	7.674	8.85	24	Pass
153	6715	1.37	1.02	2.636	4.21	4.61	7.621	8.82	24	Pass
181	6855	1.43	1.17	2.699	4.31	4.61	7.798	8.92	24	Pass
185	6875	1.51	1.30	2.765	4.42	4.09	7.096	8.51	24	Pass
213	7015	1.21	1.13	2.618	4.18	4.09	6.714	8.27	24	Pass
233	7115	1.05	1.02	2.538	4.04	4.09	6.501	8.13	24	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
1	5955	1.25	0.75	2.522	4.02	4.76	7.551	8.78	24	Pass
45	6175	1.36	0.82	2.576	4.11	4.76	7.709	8.87	24	Pass
93	6415	1.39	0.79	2.577	4.11	4.76	7.709	8.87	24	Pass
97	6435	1.77	1.52	2.922	4.66	4.29	7.852	8.95	24	Pass
105	6475	2.01	1.41	2.972	4.73	4.29	7.980	9.02	24	Pass
113	6515	1.48	2.04	3.006	4.78	4.29	8.072	9.07	24	Pass
117	6535	1.60	1.30	2.794	4.46	4.61	8.072	9.07	24	Pass
153	6715	1.85	1.67	3.000	4.77	4.61	8.670	9.38	24	Pass
181	6855	1.52	0.62	2.573	4.10	4.61	7.430	8.71	24	Pass
185	6875	1.71	1.92	3.038	4.83	4.09	7.798	8.92	24	Pass
213	7015	0.57	2.51	2.923	4.66	4.09	7.499	8.75	24	Pass
233	7115	1.41	2.25	3.062	4.86	4.09	7.852	8.95	24	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
3	5965	4.80	4.61	5.911	7.72	4.76	17.701	12.48	24	Pass
43	6165	4.92	4.33	5.815	7.65	4.76	17.418	12.41	24	Pass
91	6405	4.90	4.30	5.782	7.62	4.76	17.298	12.38	24	Pass
99	6445	4.82	4.23	5.682	7.55	4.29	15.276	11.84	24	Pass
107	6485	4.67	4.14	5.525	7.42	4.29	14.825	11.71	24	Pass
115	6525	4.25	3.99	5.167	7.13	4.61	14.928	11.74	24	Pass
123	6565	4.13	3.94	5.066	7.05	4.61	14.655	11.66	24	Pass
155	6725	4.25	4.01	5.178	7.14	4.61	14.962	11.75	24	Pass
179	6845	4.29	4.05	5.226	7.18	4.61	15.101	11.79	24	Pass
187	6885	4.31	4.01	5.215	7.17	4.09	13.366	11.26	24	Pass
211	7005	4.75	4.21	5.622	7.50	4.09	14.421	11.59	24	Pass
227	7085	4.95	4.72	6.091	7.85	4.09	15.631	11.94	24	Pass

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
7	5985	7.16	6.89	10.086	10.04	4.76	30.200	14.80	24	Pass
39	6145	7.15	6.85	10.030	10.01	4.76	29.992	14.77	24	Pass
87	6385	7.35	6.91	10.342	10.15	4.76	30.974	14.91	24	Pass
103	6465	7.43	6.99	10.534	10.23	4.29	28.314	14.52	24	Pass
119	6545	7.58	6.95	10.682	10.29	4.61	30.903	14.90	24	Pass
135	6625	7.82	7.01	11.077	10.44	4.61	31.989	15.05	24	Pass
151	6705	7.89	7.13	11.316	10.54	4.61	32.734	15.15	24	Pass
167	6785	7.85	7.29	11.453	10.59	4.61	33.113	15.20	24	Pass
183	6865	7.85	7.23	11.380	10.56	4.61	32.885	15.17	24	Pass
199	6945	7.89	7.21	11.412	10.57	4.09	29.242	14.66	24	Pass
215	7025	7.91	7.29	11.538	10.62	4.09	29.580	14.71	24	Pass

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
15	6025	9.79	9.67	18.796	12.74	4.76	56.234	17.50	24	Pass
47	6185	9.43	9.13	16.955	12.29	4.76	50.699	17.05	24	Pass
79	6345	9.78	9.52	18.460	12.66	4.76	55.208	17.42	24	Pass
111	6505	9.69	9.02	17.291	12.38	4.29	46.452	16.67	24	Pass
143	6665	9.58	9.25	17.492	12.43	4.61	50.582	17.04	24	Pass
175	6825	9.78	9.45	18.317	12.63	4.61	52.966	17.24	24	Pass
207	6985	9.68	9.16	17.531	12.44	4.09	44.978	16.53	24	Pass

20MHz Preamble

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
26/0	1	5955	-6.98	-7.08	0.396	-4.02	4.76	1.186	0.74	24	Pass
26/8	93	6415	-6.85	-7.09	0.402	-3.96	4.76	1.202	0.80	24	Pass
26/0	97	6435	-6.87	-7.03	0.404	-3.94	4.29	1.084	0.35	24	Pass
26/0	117	6535	-6.92	-7.05	0.401	-3.97	4.61	1.159	0.64	24	Pass
26/8	181	6855	-6.81	-7.13	0.402	-3.96	4.61	1.161	0.65	24	Pass
26/8	213	7015	-7.02	-7.68	0.369	-4.33	4.09	0.946	-0.24	24	Pass

802.11ax (RU52)

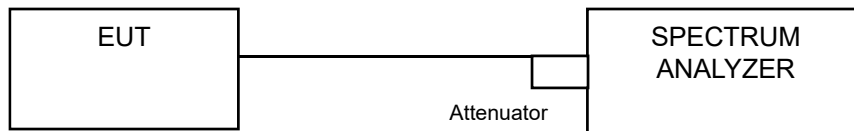
RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
52/37	1	5955	-3.86	-4.48	0.768	-1.15	4.76	2.296	3.61	24	Pass
52/40	93	6415	-3.83	-4.28	0.787	-1.04	4.76	2.355	3.72	24	Pass
52/37	97	6435	-3.81	-4.35	0.783	-1.06	4.29	2.104	3.23	24	Pass
52/37	117	6535	-3.79	-4.45	0.777	-1.10	4.61	2.244	3.51	24	Pass
52/40	181	6855	-3.75	-4.68	0.762	-1.18	4.61	2.203	3.43	24	Pass
52/40	213	7015	-3.89	-4.75	0.743	-1.29	4.09	1.905	2.80	24	Pass

802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Max. Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Pass / Fail
			Chain 0	Chain 1							
106/53	1	5955	-1.42	-1.68	1.400	1.46	4.76	4.188	6.22	24	Pass
106/54	93	6415	-1.35	-1.46	1.447	1.61	4.76	4.335	6.37	24	Pass
106/53	97	6435	-0.99	-1.38	1.524	1.83	4.29	4.093	6.12	24	Pass
106/53	117	6535	-0.99	-1.59	1.490	1.73	4.61	4.305	6.34	24	Pass
106/54	181	6855	-1.21	-1.68	1.436	1.57	4.61	4.150	6.18	24	Pass
106/54	213	7015	-1.25	-1.78	1.414	1.50	4.09	3.622	5.59	24	Pass

4.5 Emission Bandwidth Measurement

4.5.1 Test Setup



4.5.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.3 Test Procedure

FOR 99% OCCUPIED BANDWIDTH

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

FOR 26dB BANDWIDTH

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.5.4 Test Results

99% Occupied Bandwidth:

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
1	5955	17.16	17.10	320
45	6175	17.16	17.16	320
93	6415	17.28	17.16	320
97	6435	17.16	17.04	320
105	6475	17.16	17.16	320
113	6515	16.68	16.68	320
117	6535	17.16	17.04	320
153	6715	16.68	16.80	320
181	6855	17.16	17.16	320
185	6875	17.16	17.28	320
213	7015	16.68	16.68	320
233	7115	16.80	17.28	320

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
1	5955	19.20	19.20	320
45	6175	19.32	19.20	320
93	6415	19.20	19.32	320
97	6435	19.20	19.32	320
105	6475	19.08	19.08	320
113	6515	19.08	19.08	320
117	6535	19.32	19.20	320
153	6715	19.02	19.02	320
181	6855	19.20	19.20	320
185	6875	19.32	19.20	320
213	7015	19.02	19.02	320
233	7115	19.08	19.08	320

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
3	5965	38.04	38.16	320
43	6165	37.68	37.68	320
91	6405	37.68	37.68	320
99	6445	37.68	37.68	320
107	6485	37.68	37.68	320
115	6525	37.68	37.92	320
123	6565	37.68	37.68	320
155	6725	37.92	37.68	320
179	6845	37.68	37.68	320
187	6885	37.68	37.68	320
211	7005	37.68	37.80	320
227	7085	38.16	38.16	320

802.11ax (HE80)

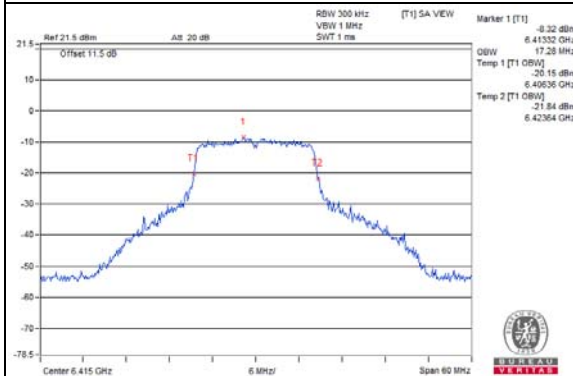
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
7	5985	77.28	77.28	320
39	6145	77.28	77.28	320
87	6385	76.80	77.28	320
103	6465	77.28	77.28	320
119	6545	76.80	77.28	320
135	6625	77.04	76.80	320
151	6705	77.28	77.32	320
167	6785	76.80	77.04	320
183	6865	77.28	76.32	320
199	6945	77.28	77.28	320
215	7025	77.28	77.28	320

802.11ax (HE160)

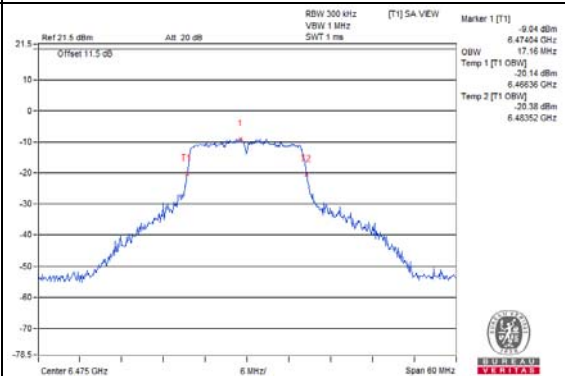
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Limit (MHz)
15	6025	156.00	155.52	320
47	6185	155.52	155.52	320
79	6345	156.48	154.56	320
111	6505	155.52	155.52	320
143	6665	156.48	156.48	320
175	6825	155.52	155.52	320
207	6985	155.52	155.52	320

Spectrum Plot of Max. Value

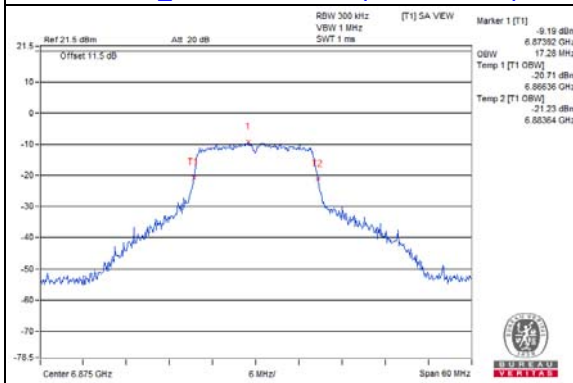
802.11a_Chain 0 / CH93 (U-NII-5 Band)



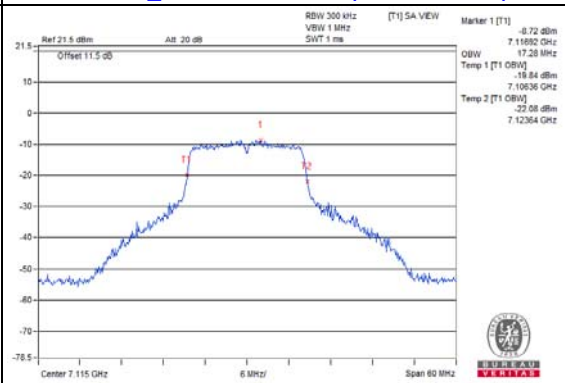
802.11a_Chain 1 / CH105 (U-NII-6 Band)



802.11a_Chain 1 / CH185 (U-NII-7 Band)

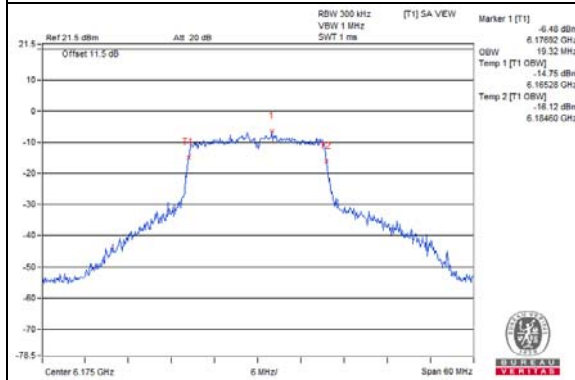


802.11a_Chain 1 / CH233 (U-NII-8 Band)

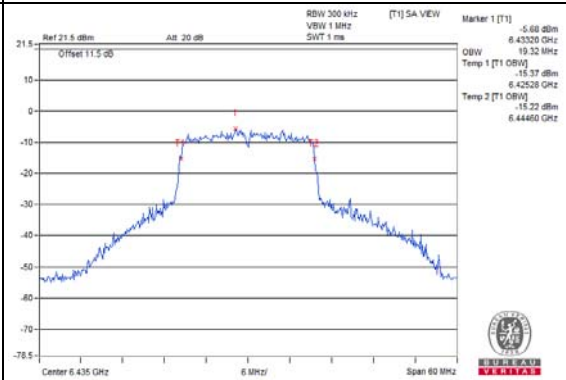


Spectrum Plot of Max. Value

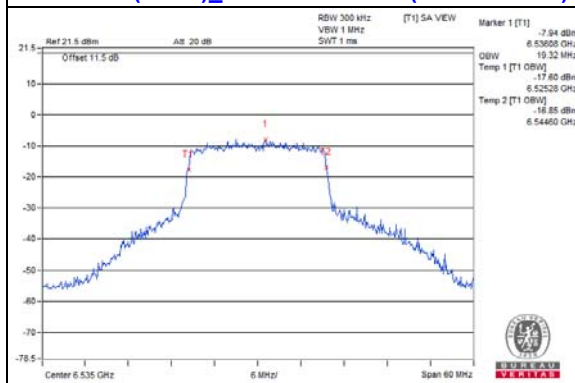
802.11ax (HE20)_Chain 0 / CH45 (U-NII-5 Band)



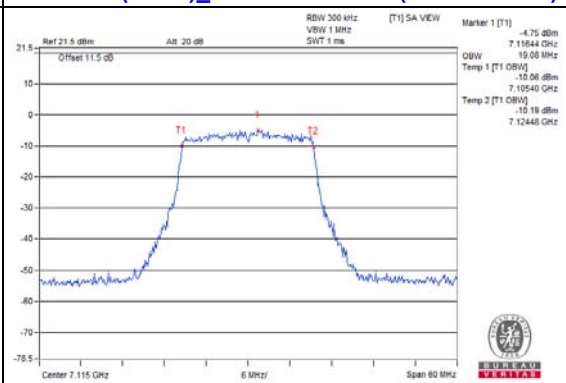
802.11ax (HE20)_Chain 1 / CH97 (U-NII-6 Band)



802.11ax (HE20)_Chain 0 / CH117 (U-NII-7 Band)

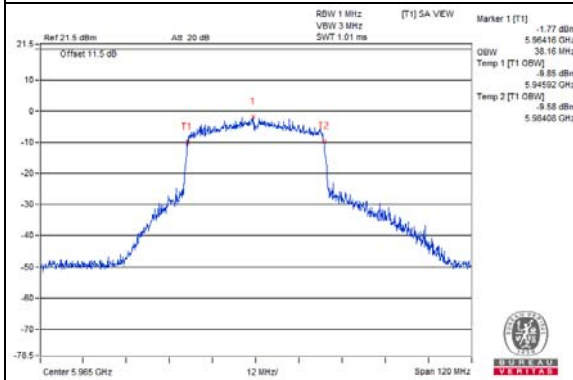


802.11ax (HE20)_Chain 0 / CH233 (U-NII-8 Band)

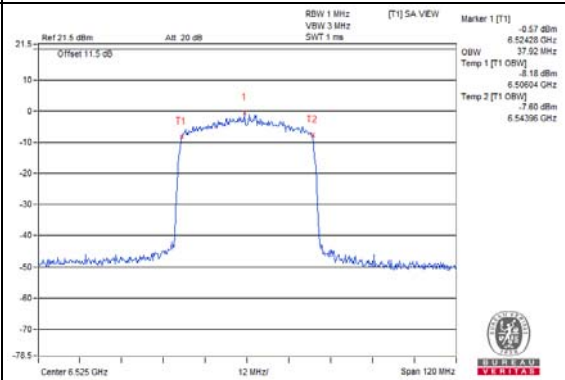


Spectrum Plot of Max. Value

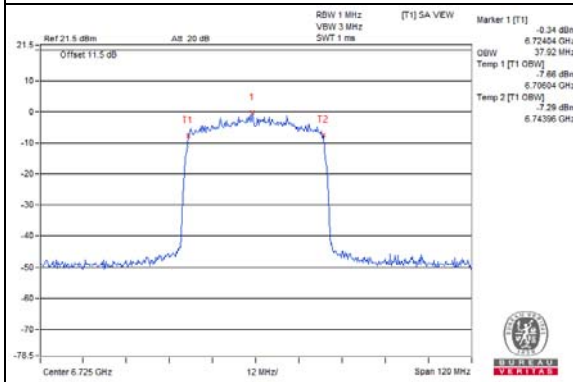
802.11ax (HE40)_Chain 1 / CH3 (U-NII-5 Band)



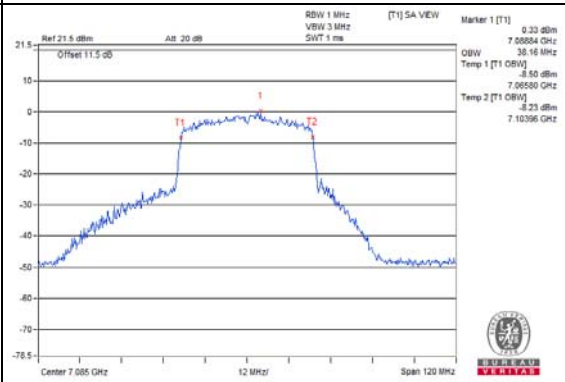
802.11ax (HE40)_Chain 1 / CH115 (U-NII-6 Band)

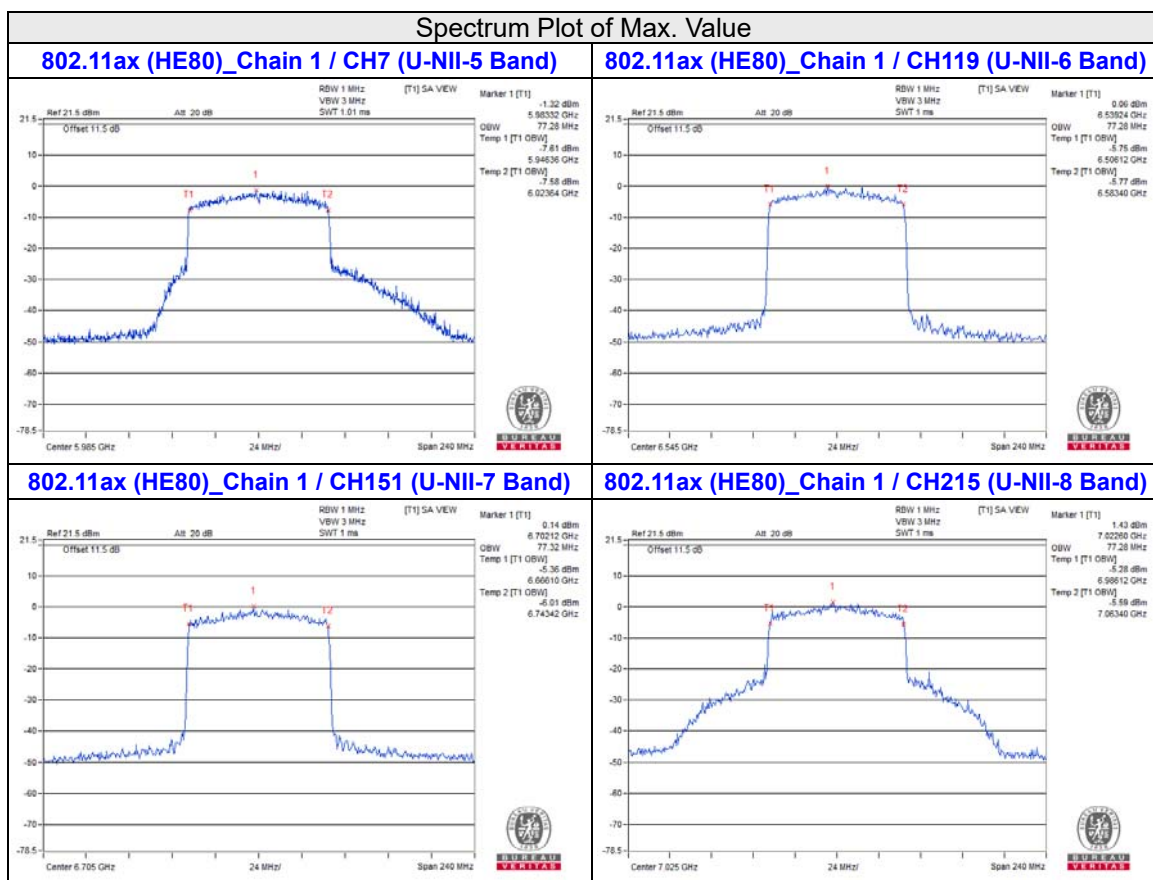


802.11ax (HE40)_Chain 0 / CH155 (U-NII-7 Band)



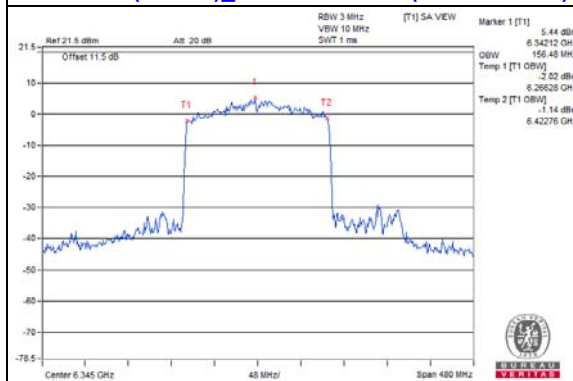
802.11ax (HE40)_Chain 0 / CH227 (U-NII-8 Band)



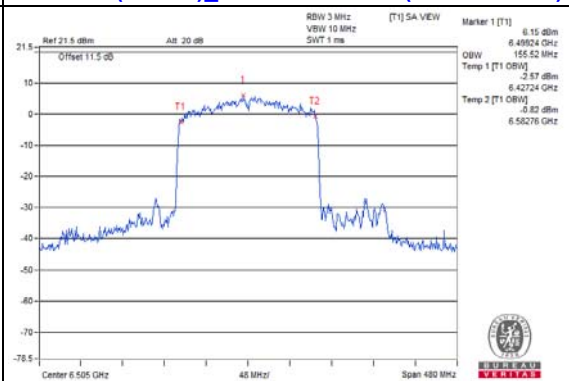


Spectrum Plot of Max. Value

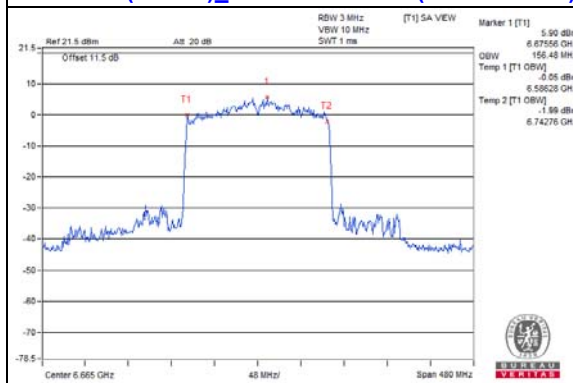
802.11ax (HE160)_Chain 0 / CH79 (U-NII-5 Band)



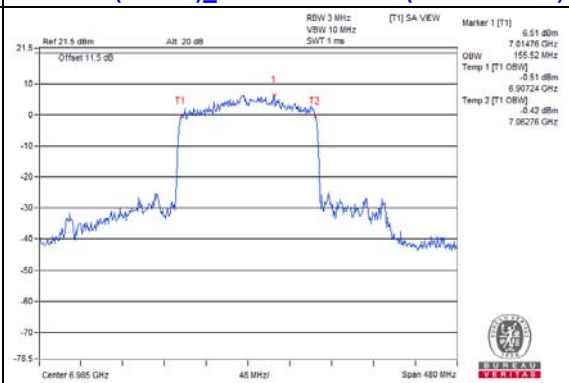
802.11ax (HE160)_Chain 0 / CH111 (U-NII-6 Band)



802.11ax (HE160)_Chain 0 / CH143 (U-NII-7 Band)



802.11ax (HE160)_Chain 0 / CH207 (U-NII-8 Band)



26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		Chain0	Chain1	Limit (MHz)
1	5955	38.01	38.45	320
45	6175	29.18	37.18	320
93	6415	37.25	36.82	320
97	6435	38.66	38.66	320
105	6475	37.26	38.17	320
113	6515	22.19	21.67	320
117	6535	37.24	36.76	320
153	6715	21.80	22.01	320
181	6855	36.71	37.86	320
185	6875	29.31	37.09	320
213	7015	21.83	21.88	320
233	7115	22.34	36.99	320

802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		Chain0	Chain1	Limit (MHz)
1	5955	35.43	35.95	320
45	6175	36.06	34.33	320
93	6415	35.35	37.34	320
97	6435	36.31	36.55	320
105	6475	22.92	22.71	320
113	6515	22.81	23.26	320
117	6535	34.98	36.32	320
153	6715	22.66	23.10	320
181	6855	37.13	36.68	320
185	6875	34.96	28.35	320
213	7015	22.59	22.66	320
233	7115	22.79	22.81	320

802.11ax (HE40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		Chain0	Chain1	Limit (MHz)
3	5965	52.86	60.45	320
43	6165	40.87	40.79	320
91	6405	40.83	40.71	320
99	6445	40.68	40.80	320
107	6485	40.85	40.88	320
115	6525	40.86	40.76	320
123	6565	40.89	40.79	320
155	6725	40.78	40.67	320
179	6845	40.77	40.80	320
187	6885	40.67	40.77	320
211	7005	40.85	40.55	320
227	7085	53.57	51.66	320

802.11ax (HE80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		Chain0	Chain1	Limit (MHz)
7	5985	99.49	95.25	320
39	6145	81.24	81.31	320
87	6385	81.27	81.30	320
103	6465	81.26	81.19	320
119	6545	81.24	81.23	320
135	6625	80.86	80.72	320
151	6705	81.17	81.32	320
167	6785	80.96	80.79	320
183	6865	81.27	81.16	320
199	6945	81.37	81.17	320
215	7025	125.87	113.93	320

802.11ax (HE160)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
		Chain0	Chain1	Limit (MHz)
15	6025	164.58	164.59	320
47	6185	165.94	165.54	320
79	6345	165.88	165.49	320
111	6505	165.82	165.52	320
143	6665	165.74	165.73	320
175	6825	165.29	165.37	320
207	6985	165.62	165.60	320

20MHz Preamble

802.11ax (RU26)

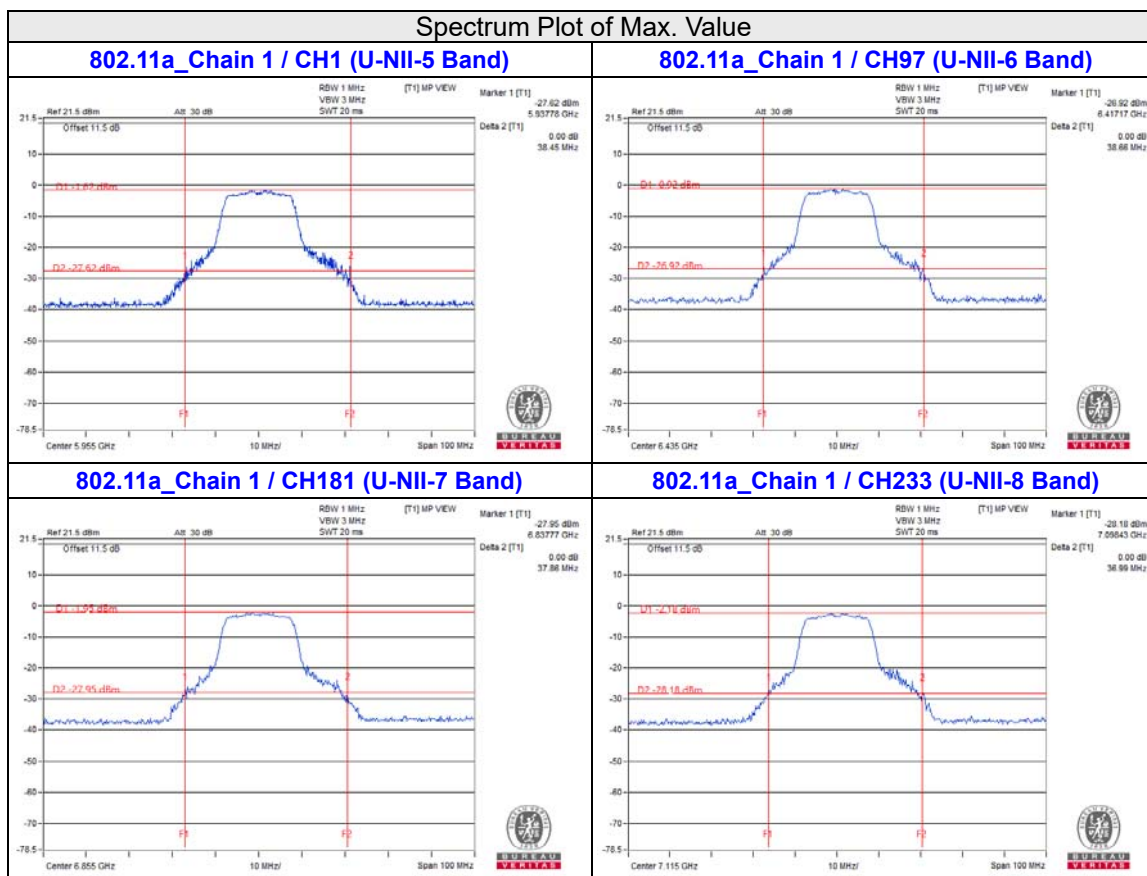
RU Configuration	Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
26/0	1	5955	20.46	20.48	320
26/8	93	6415	20.88	20.78	320
26/0	97	6435	20.52	20.61	320
26/0	117	6535	20.61	20.49	320
26/8	181	6855	20.86	20.88	320
26/8	213	7015	21.22	20.98	320

802.11ax (RU52)

RU Configuration	Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
52/37	1	5955	21.24	21.31	320
52/40	93	6415	21.60	21.42	320
52/37	97	6435	20.95	21.29	320
52/37	117	6535	21.22	21.21	320
52/40	181	6855	21.16	21.24	320
52/40	213	7015	21.41	21.10	320

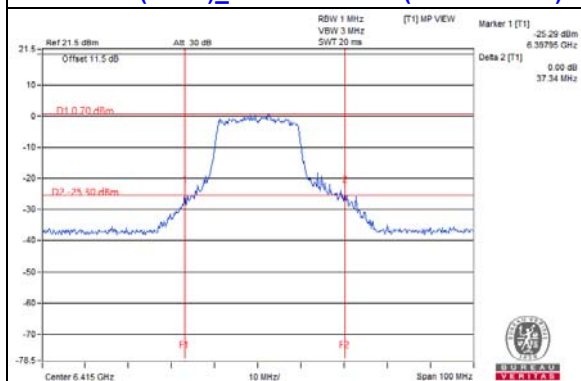
802.11ax (RU106)

RU Configuration	Channel	Frequency (MHz)	26dB Bandwidth (MHz)		
			Chain 0	Chain 1	Limit (MHz)
106/53	1	5955	20.77	21.10	320
106/54	93	6415	21.67	21.95	320
106/53	97	6435	21.00	21.31	320
106/53	117	6535	20.91	20.88	320
106/54	181	6855	21.80	21.78	320
106/54	213	7015	21.85	21.97	320

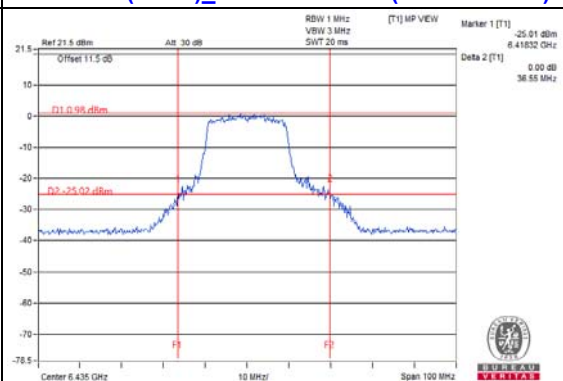


Spectrum Plot of Max. Value

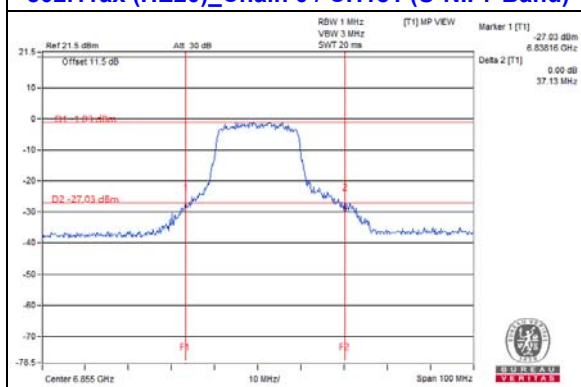
802.11ax (HE20)_Chain 1 / CH93 (U-NII-5 Band)



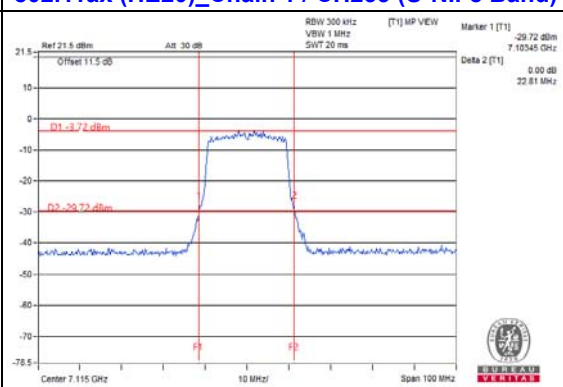
802.11ax (HE20)_Chain 1 / CH97 (U-NII-6 Band)

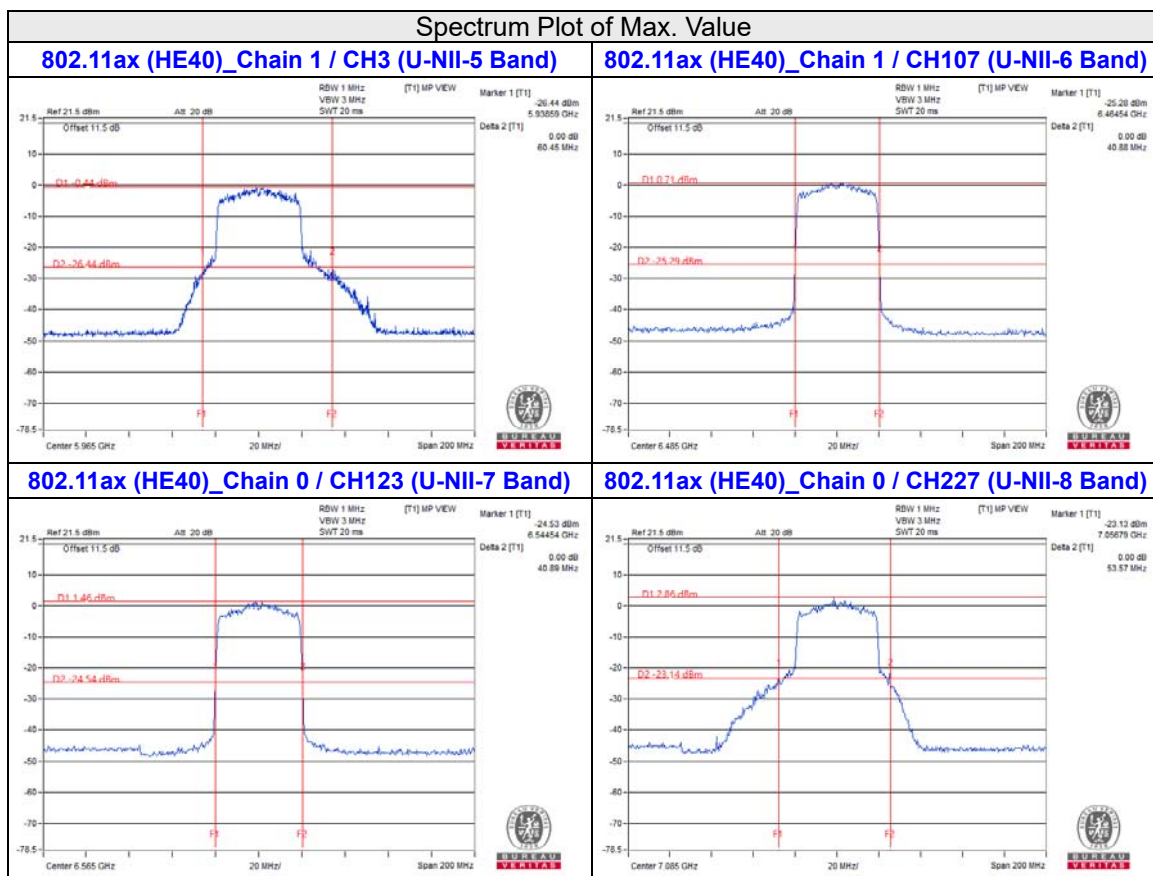


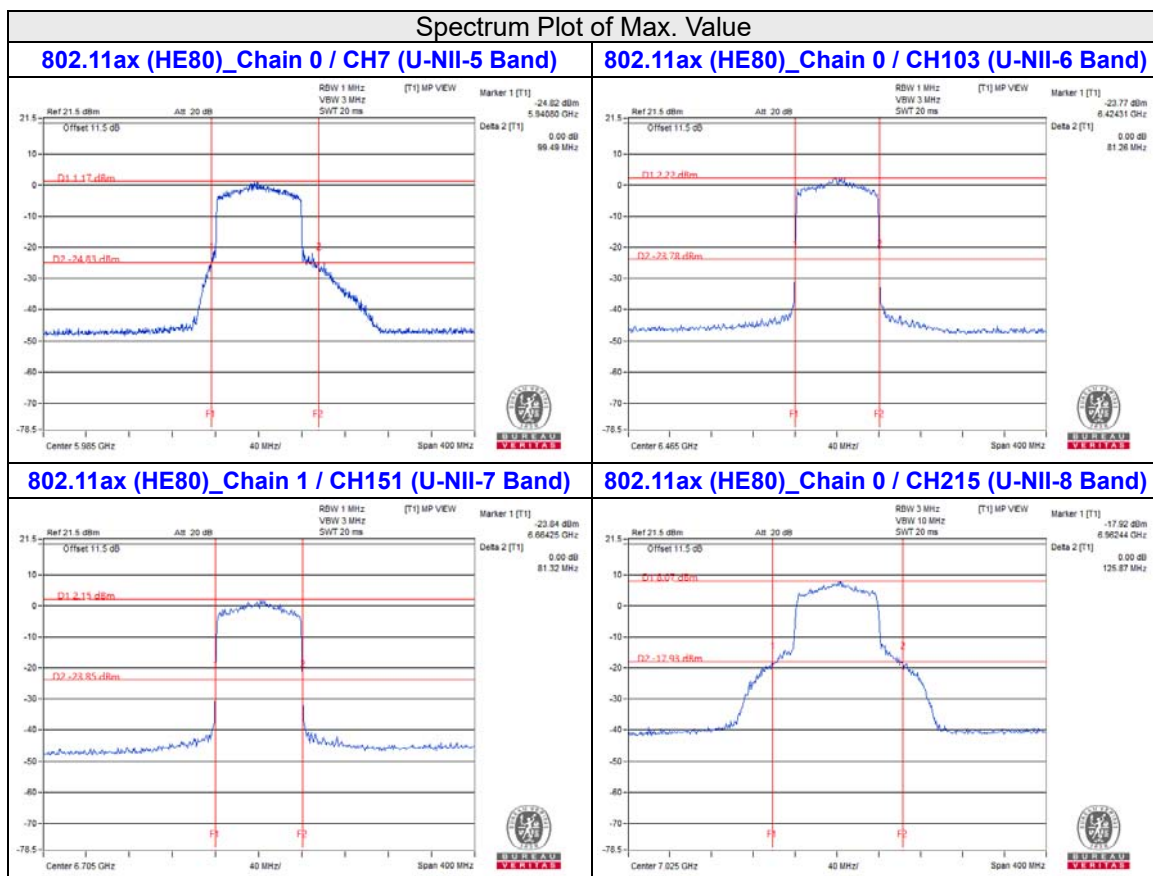
802.11ax (HE20)_Chain 0 / CH181 (U-NII-7 Band)

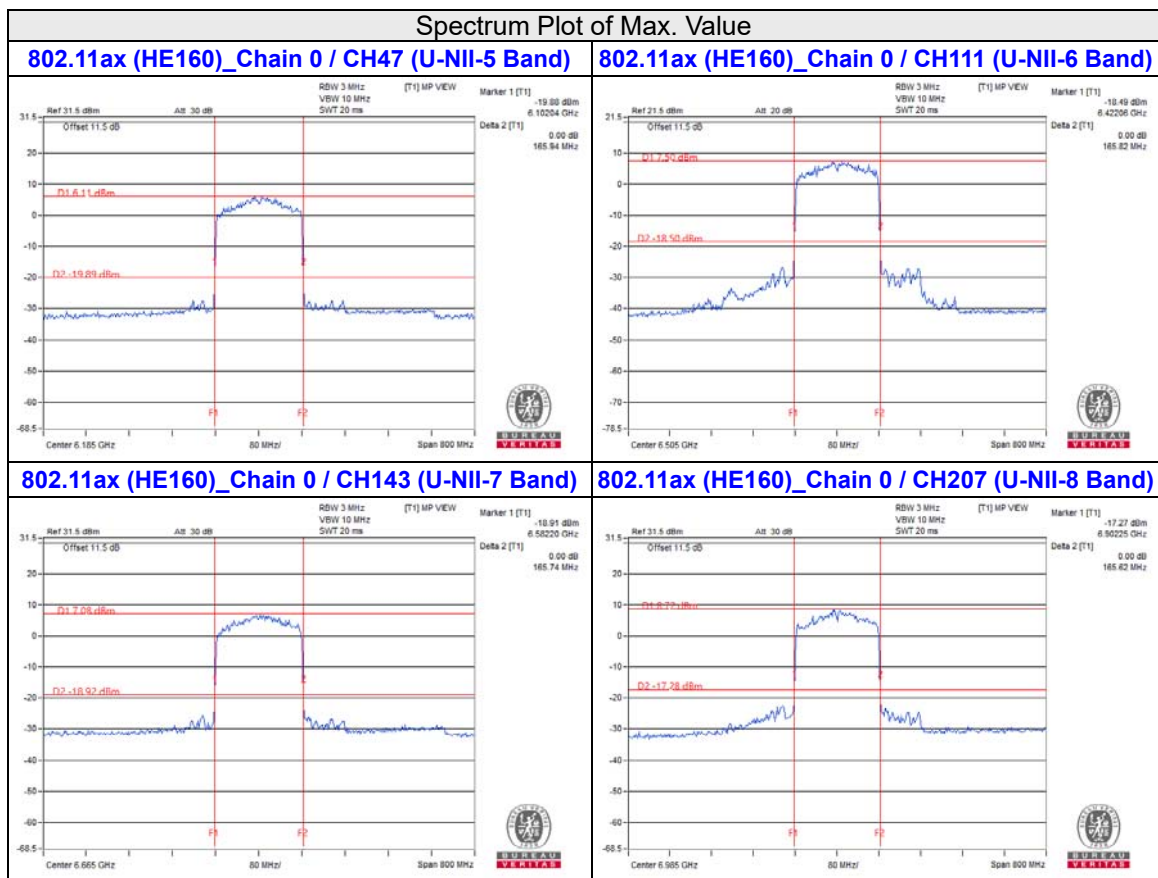


802.11ax (HE20)_Chain 1 / CH233 (U-NII-8 Band)



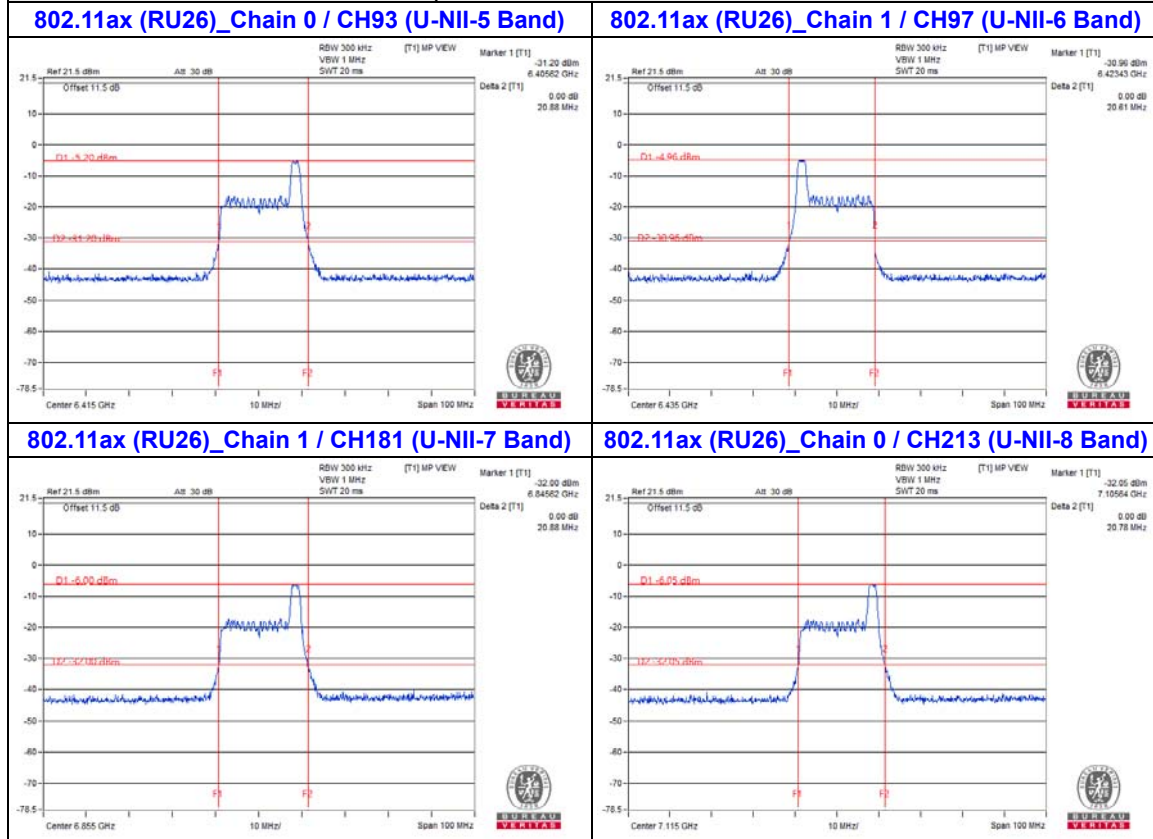






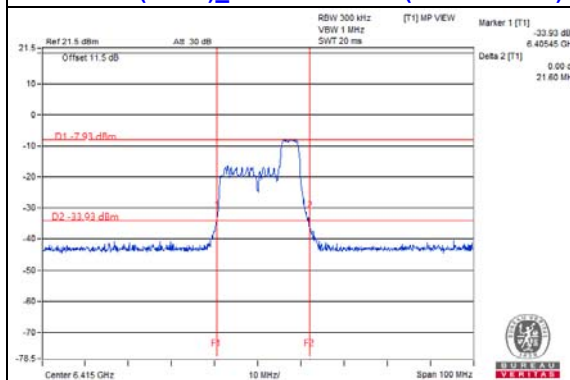
20MHz Preamble

Spectrum Plot of Max. Value

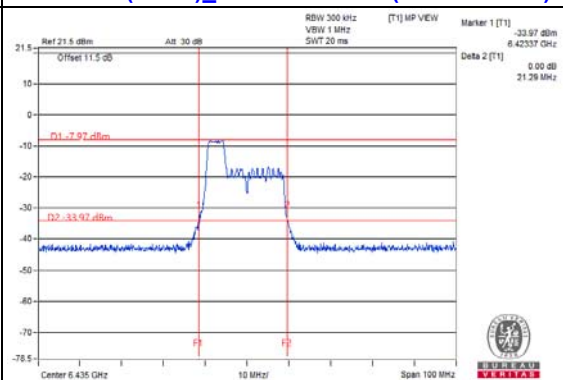


Spectrum Plot of Max. Value

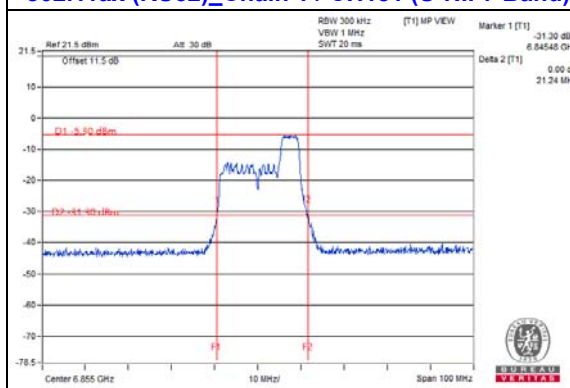
802.11ax (RU52)_Chain 0 / CH93 (U-NII-5 Band)



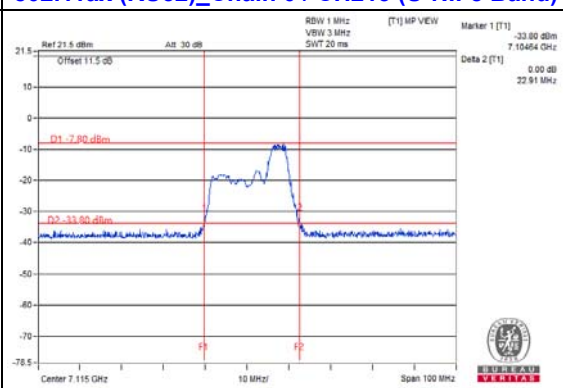
802.11ax (RU52)_Chain 1 / CH97 (U-NII-6 Band)



802.11ax (RU52)_Chain 1 / CH181 (U-NII-7 Band)

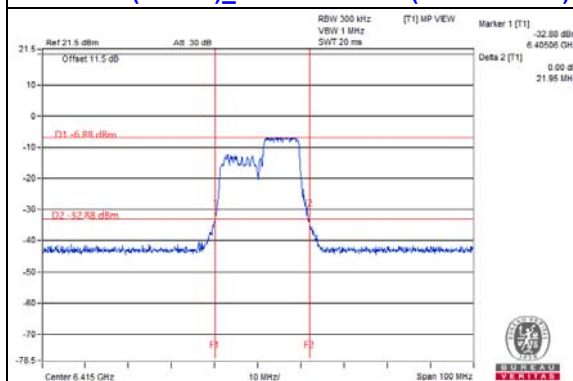


802.11ax (RU52)_Chain 0 / CH213 (U-NII-8 Band)

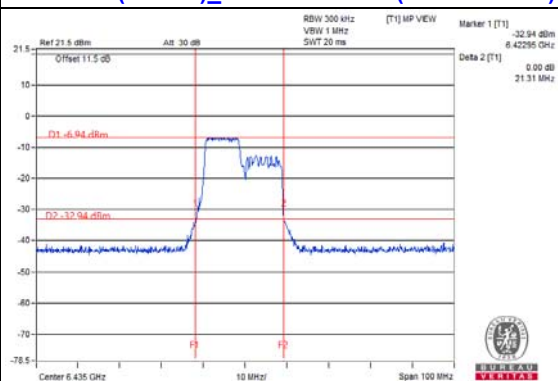


Spectrum Plot of Max. Value

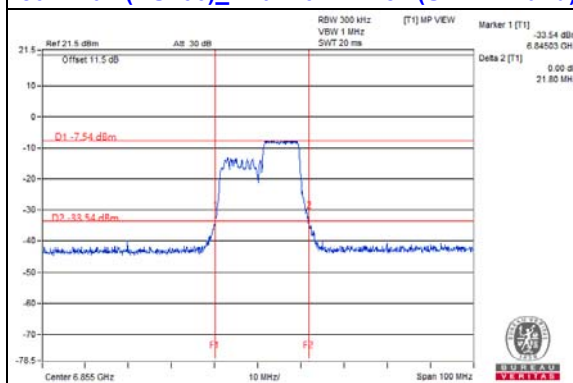
802.11ax (RU106)_Chain 1 / CH93 (U-NII-5 Band)



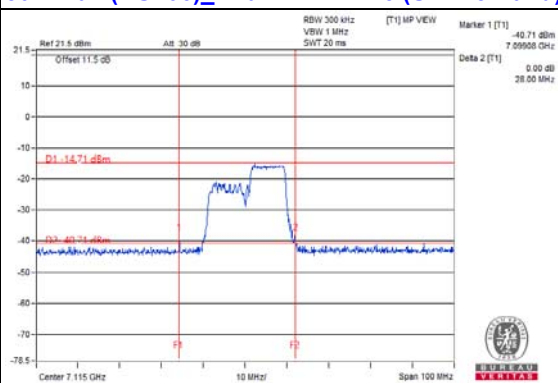
802.11ax (RU106)_Chain 1 / CH97 (U-NII-6 Band)



802.11ax (RU106)_Chain 0 / CH181 (U-NII-7 Band)



802.11ax (RU106)_Chain 1 / CH213 (U-NII-8 Band)

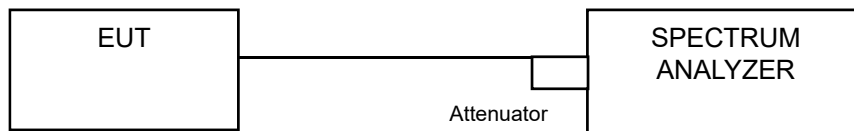


4.6 Peak Power Spectral Density Measurement

4.6.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category	Limit
		Peak Power Density (EIRP)
U-NII-5 U-NII-6 U-NII-7 U-NII-8	Client Devices (controlled of an indoor AP)	-1 dBm/MHz

4.6.2 Test Setup For Conducted Method



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz
- Sweep time = auto, trigger set to "free run".
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

4.6.5 EUT Operating Condition

Same as Item 4.3.6.

4.6.6 Test Results

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1						
1	5955	-12.14	-12.08	0.14	-8.96	7.77	-1.19	-1.00	Pass
45	6175	-12.14	-12.06	0.14	-8.95	7.77	-1.18	-1.00	Pass
93	6415	-12.07	-12.15	0.14	-8.96	7.77	-1.19	-1.00	Pass
97	6435	-11.82	-11.68	0.14	-8.60	7.30	-1.30	-1.00	Pass
105	6475	-11.86	-11.69	0.14	-8.63	7.30	-1.33	-1.00	Pass
113	6515	-11.79	-11.78	0.14	-8.64	7.30	-1.34	-1.00	Pass
117	6535	-11.96	-11.97	0.14	-8.82	7.62	-1.20	-1.00	Pass
153	6715	-12.04	-12.11	0.14	-8.93	7.62	-1.31	-1.00	Pass
181	6855	-11.97	-11.96	0.14	-8.82	7.62	-1.20	-1.00	Pass
185	6875	-11.43	-11.46	0.14	-8.30	7.10	-1.20	-1.00	Pass
213	7015	-11.54	-11.52	0.14	-8.38	7.10	-1.28	-1.00	Pass
233	7115	-11.45	-11.58	0.14	-8.37	7.10	-1.27	-1.00	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. U-NII-5: Directional gain = $4.76\text{dBi} + 10\log(2) = 7.77\text{dBi}$

3. U-NII-6: Directional gain = $4.29\text{dBi} + 10\log(2) = 7.30\text{dBi}$

4. U-NII-7: Directional gain = $4.61\text{dBi} + 10\log(2) = 7.62\text{dBi}$

5. U-NII-8: Directional gain = $4.09\text{dBi} + 10\log(2) = 7.10\text{dBi}$

6. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1						
1	5955	-12.09	-12.05	0.12	-8.94	7.77	-1.17	-1.00	Pass
45	6175	-12.13	-12.04	0.12	-8.95	7.77	-1.18	-1.00	Pass
93	6415	-12.02	-11.98	0.12	-8.87	7.77	-1.10	-1.00	Pass
97	6435	-11.53	-11.56	0.12	-8.41	7.30	-1.11	-1.00	Pass
105	6475	-11.56	-11.56	0.12	-8.43	7.30	-1.13	-1.00	Pass
113	6515	-11.51	-11.57	0.12	-8.41	7.30	-1.11	-1.00	Pass
117	6535	-11.82	-11.97	0.12	-8.76	7.62	-1.14	-1.00	Pass
153	6715	-11.79	-11.89	0.12	-8.71	7.62	-1.09	-1.00	Pass
181	6855	-11.93	-11.82	0.12	-8.74	7.62	-1.12	-1.00	Pass
185	6875	-11.52	-11.75	0.12	-8.50	7.10	-1.40	-1.00	Pass
213	7015	-11.30	-11.32	0.12	-8.18	7.10	-1.08	-1.00	Pass
233	7115	-11.44	-11.45	0.12	-8.31	7.10	-1.21	-1.00	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. U-NII-5: Directional gain = $4.76\text{dBi} + 10\log(2) = 7.77\text{dBi}$
3. U-NII-6: Directional gain = $4.29\text{dBi} + 10\log(2) = 7.30\text{dBi}$
4. U-NII-7: Directional gain = $4.61\text{dBi} + 10\log(2) = 7.62\text{dBi}$
5. U-NII-8: Directional gain = $4.09\text{dBi} + 10\log(2) = 7.10\text{dBi}$
6. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1						
3	5965	-12.11	-11.98	0.12	-8.92	7.77	-1.15	-1.00	Pass
43	6165	-12.19	-12.02	0.12	-8.98	7.77	-1.21	-1.00	Pass
91	6405	-12.14	-12.08	0.12	-8.98	7.77	-1.21	-1.00	Pass
99	6445	-11.42	-11.78	0.12	-8.47	7.30	-1.17	-1.00	Pass
107	6485	-11.71	-11.61	0.12	-8.53	7.30	-1.23	-1.00	Pass
115	6525	-11.93	-11.82	0.12	-8.75	7.62	-1.13	-1.00	Pass
123	6565	-11.84	-11.97	0.12	-8.78	7.62	-1.16	-1.00	Pass
155	6725	-11.89	-11.81	0.12	-8.72	7.62	-1.10	-1.00	Pass
179	6845	-11.76	-11.91	0.12	-8.71	7.62	-1.09	-1.00	Pass
187	6885	-11.46	-11.27	0.12	-8.24	7.10	-1.14	-1.00	Pass
211	7005	-11.24	-11.60	0.12	-8.29	7.10	-1.19	-1.00	Pass
227	7085	-11.27	-11.33	0.12	-8.17	7.10	-1.07	-1.00	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. U-NII-5: Directional gain = $4.76\text{dBi} + 10\log(2) = 7.77\text{dBi}$

3. U-NII-6: Directional gain = $4.29\text{dBi} + 10\log(2) = 7.30\text{dBi}$

4. U-NII-7: Directional gain = $4.61\text{dBi} + 10\log(2) = 7.62\text{dBi}$

5. U-NII-8: Directional gain = $4.09\text{dBi} + 10\log(2) = 7.10\text{dBi}$

6. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1						
7	5985	-12.33	-12.18	0.20	-9.04	7.77	-1.27	-1.00	Pass
39	6145	-12.10	-12.23	0.20	-8.95	7.77	-1.18	-1.00	Pass
87	6385	-12.30	-12.19	0.20	-9.03	7.77	-1.26	-1.00	Pass
103	6465	-12.13	-11.65	0.20	-8.67	7.30	-1.37	-1.00	Pass
119	6545	-12.07	-11.81	0.20	-8.73	7.62	-1.11	-1.00	Pass
135	6625	-12.05	-12.16	0.20	-8.89	7.62	-1.27	-1.00	Pass
151	6705	-12.15	-11.96	0.20	-8.84	7.62	-1.22	-1.00	Pass
167	6785	-11.98	-12.34	0.20	-8.94	7.62	-1.32	-1.00	Pass
183	6865	-12.13	-11.94	0.20	-8.82	7.62	-1.20	-1.00	Pass
199	6945	-11.54	-11.58	0.20	-8.35	7.10	-1.25	-1.00	Pass
215	7025	-11.59	-11.51	0.20	-8.34	7.10	-1.24	-1.00	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. U-NII-5: Directional gain = 4.76dBi + 10log(2) = 7.77dBi
3. U-NII-6: Directional gain = 4.29dBi + 10log(2) = 7.30dBi
4. U-NII-7: Directional gain = 4.61dBi + 10log(2) = 7.62dBi
5. U-NII-8: Directional gain = 4.09dBi + 10log(2) = 7.10dBi
6. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1						
15	6025	-12.89	-13.38	0.83	-9.29	7.77	-1.52	-1.00	Pass
47	6185	-12.72	-12.87	0.83	-8.96	7.77	-1.19	-1.00	Pass
79	6345	-13.50	-13.07	0.83	-9.44	7.77	-1.67	-1.00	Pass
111	6505	-12.49	-12.55	0.83	-8.68	7.30	-1.38	-1.00	Pass
143	6665	-12.55	-12.65	0.83	-8.76	7.62	-1.14	-1.00	Pass
175	6825	-12.80	-12.77	0.83	-8.95	7.62	-1.33	-1.00	Pass
207	6985	-12.65	-12.34	0.83	-8.66	7.10	-1.56	-1.00	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. U-NII-5: Directional gain = 4.76dBi + 10log(2) = 7.77dBi
3. U-NII-6: Directional gain = 4.29dBi + 10log(2) = 7.30dBi
4. U-NII-7: Directional gain = 4.61dBi + 10log(2) = 7.62dBi
5. U-NII-8: Directional gain = 4.09dBi + 10log(2) = 7.10dBi
6. Refer to section 3.3 for duty cycle spectrum plot.

20MHz Preamble

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
			Chain 0	Chain 1						
26/0	1	5955	-12.74	-11.94	0.12	-9.19	7.77	-1.42	-1.00	Pass
26/8	93	6415	-12.23	-12.69	0.12	-9.32	7.77	-1.55	-1.00	Pass
26/0	97	6435	-11.49	-11.96	0.12	-8.59	7.30	-1.29	-1.00	Pass
26/0	117	6535	-11.88	-12.18	0.12	-8.90	7.62	-1.28	-1.00	Pass
26/8	181	6855	-12.12	-12.30	0.12	-9.08	7.62	-1.46	-1.00	Pass
26/8	213	7015	-12.12	-12.36	0.12	-9.11	7.10	-2.01	-1.00	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. U-NII-5: Directional gain = $4.76\text{dBi} + 10\log(2) = 7.77\text{dBi}$

3. U-NII-6: Directional gain = $4.29\text{dBi} + 10\log(2) = 7.30\text{dBi}$

4. U-NII-7: Directional gain = $4.61\text{dBi} + 10\log(2) = 7.62\text{dBi}$

5. U-NII-8: Directional gain = $4.09\text{dBi} + 10\log(2) = 7.10\text{dBi}$

6. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
			Chain 0	Chain 1						
52/37	1	5955	-12.06	-12.53	0.12	-9.16	7.77	-1.39	-1.00	Pass
52/40	93	6415	-12.28	-12.53	0.12	-9.27	7.77	-1.50	-1.00	Pass
52/37	97	6435	-11.61	-12.05	0.12	-8.69	7.30	-1.39	-1.00	Pass
52/37	117	6535	-12.10	-12.48	0.12	-9.15	7.62	-1.53	-1.00	Pass
52/40	181	6855	-12.10	-12.17	0.12	-9.00	7.62	-1.38	-1.00	Pass
52/40	213	7015	-11.30	-13.45	0.12	-9.11	7.10	-2.01	-1.00	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. U-NII-5: Directional gain = $4.76\text{dBi} + 10\log(2) = 7.77\text{dBi}$

3. U-NII-6: Directional gain = $4.29\text{dBi} + 10\log(2) = 7.30\text{dBi}$

4. U-NII-7: Directional gain = $4.61\text{dBi} + 10\log(2) = 7.62\text{dBi}$

5. U-NII-8: Directional gain = $4.09\text{dBi} + 10\log(2) = 7.10\text{dBi}$

6. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass / Fail
			Chain 0	Chain 1						
106/53	1	5955	-12.14	-12.22	0.12	-9.05	7.77	-1.28	-1.00	Pass
106/54	93	6415	-12.42	-11.99	0.12	-9.07	7.77	-1.30	-1.00	Pass
106/53	97	6435	-11.67	-11.62	0.12	-8.51	7.30	-1.21	-1.00	Pass
106/53	117	6535	-11.54	-12.69	0.12	-8.95	7.62	-1.33	-1.00	Pass
106/54	181	6855	-11.99	-12.13	0.12	-8.93	7.62	-1.31	-1.00	Pass
106/54	213	7015	-12.57	-12.70	0.12	-9.50	7.10	-2.40	-1.00	Pass

Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. U-NII-5: Directional gain = $4.76\text{dBi} + 10\log(2) = 7.77\text{dBi}$

3. U-NII-6: Directional gain = $4.29\text{dBi} + 10\log(2) = 7.30\text{dBi}$

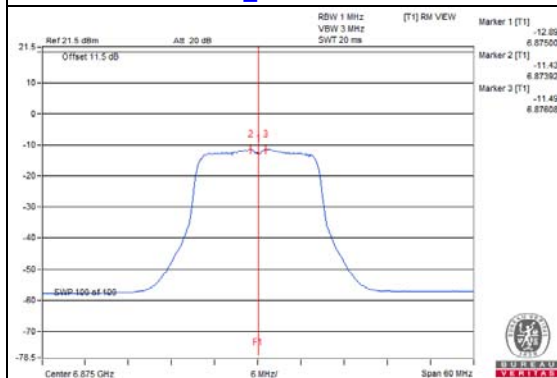
4. U-NII-7: Directional gain = $4.61\text{dBi} + 10\log(2) = 7.62\text{dBi}$

5. U-NII-8: Directional gain = $4.09\text{dBi} + 10\log(2) = 7.10\text{dBi}$

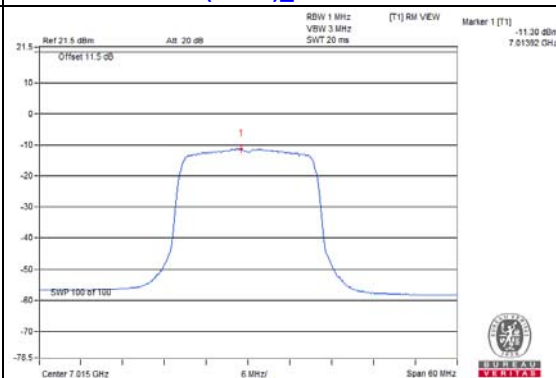
6. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

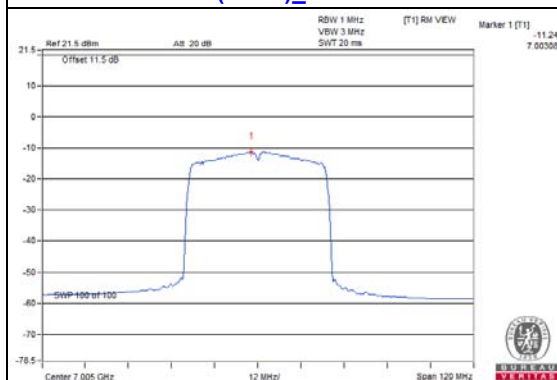
802.11a_Chain 0 / CH185



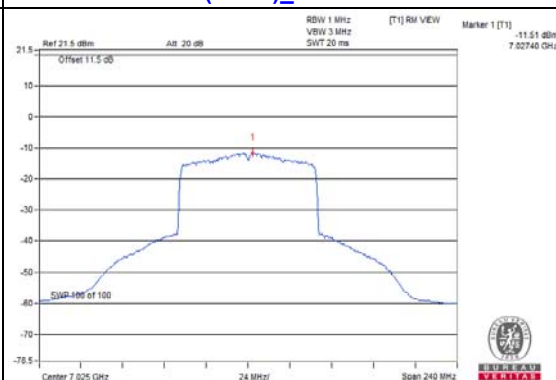
802.11ax (HE20)_Chain 0 / CH213



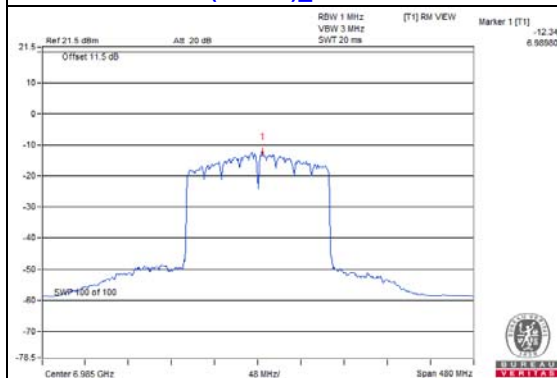
802.11ax (HE40)_Chain 0 / CH211



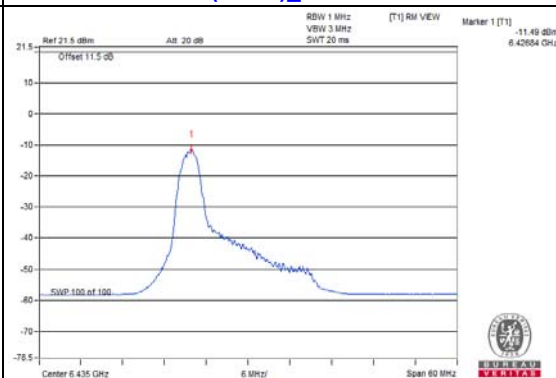
802.11ax (HE80)_Chain 1 / CH215



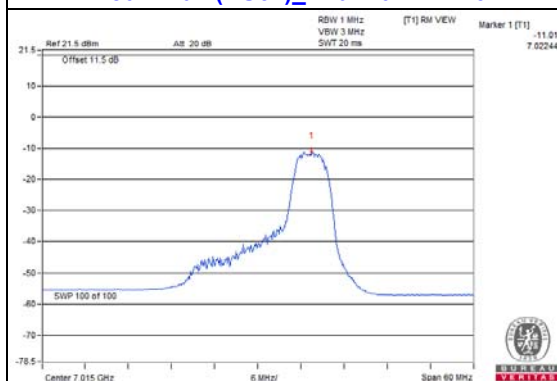
802.11ax (HE160)_Chain 1 / CH207



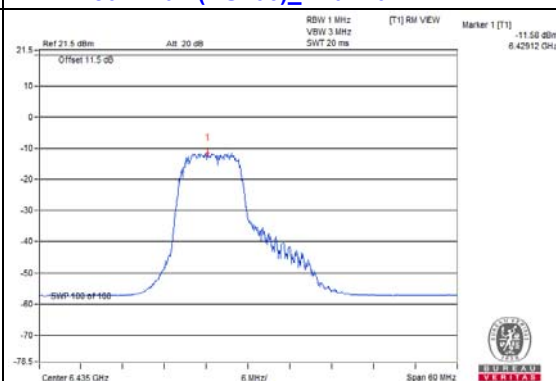
802.11ax (RU26)_Chain 0 / CH97



802.11ax (RU52)_Chain 0 / CH213



802.11ax (RU106)_Chain 0 / CH117

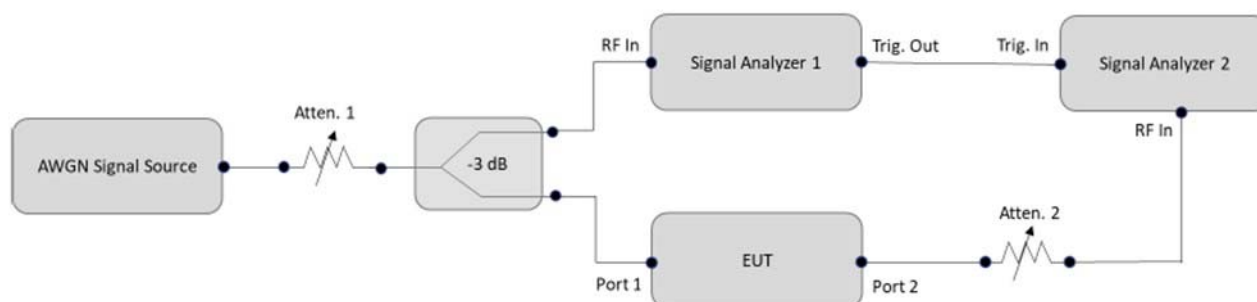


4.7 Contention Based Protocol Measurement

4.7.1 Limits of Contention Based Protocol Measurement

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

4.7.2 Test Setup



4.7.3 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSW8	101497	Nov. 10, 2020	Nov. 09, 2021
Spectrum Analyzer R&S	FSV40	101516	Mar. 08, 2021	Mar. 07, 2022
MXG X-Series RF Vector Signal Generator Agilent	N5182B	MY59100182	Apr. 22, 2021	Apr. 21, 2022
N5182BU KEYSIGHT	N5182BX07	MY59360203	Dec. 10, 2020	Dec. 09, 2021
Power Splitter/combiner Mini-Circuits	ZFRSC-123-S+	F698501347_01	Jan. 27, 2021	Jan. 26, 2022

NOTE: 1. The test was performed in Femtocell room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.7.4 Test Procedure

- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- Determine number of times detection threshold test as following table,

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Same as EUT transmission
$BW_{Inc} < BW_{EUT} \leq 2x BW_{Inc}$	Once	Contained within BW_{EUT}
$2x BW_{Inc} < BW_{EUT} \leq 4x BW_{Inc}$	Twice. (Incumbent transmission is contained within BW_{EUT})	Closely to the lower edge and upper edge of the EUT Channel
$BW_{EUT} > 4x BW_{Inc}$	Three times	Closely to the lower edge ,in the middle and upper edge of the EUT Channel

- Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

4.7.5 EUT Operating Condition

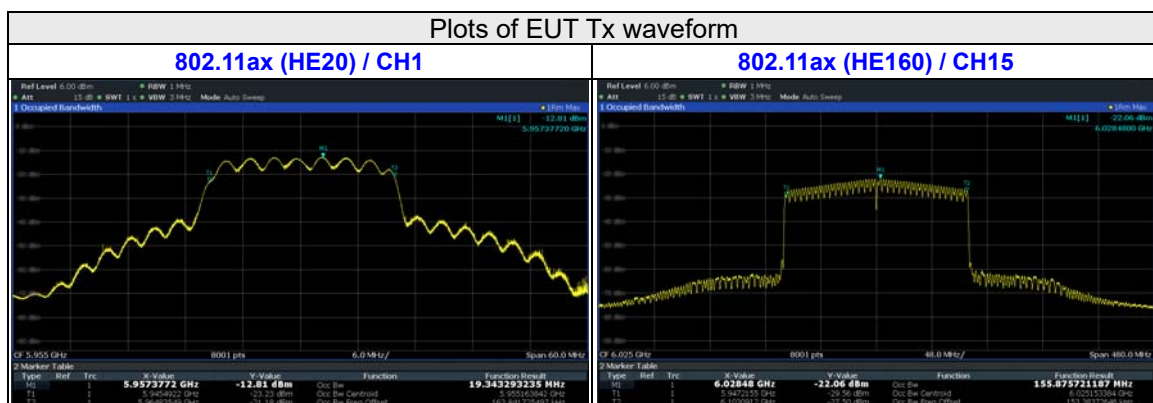
Set the EUT to transmit with a constant duty cycle and relative operating parameters which including power level, operating frequency, modulation and bandwidth.

4.7.6 Test Results

For U-NII-5 band

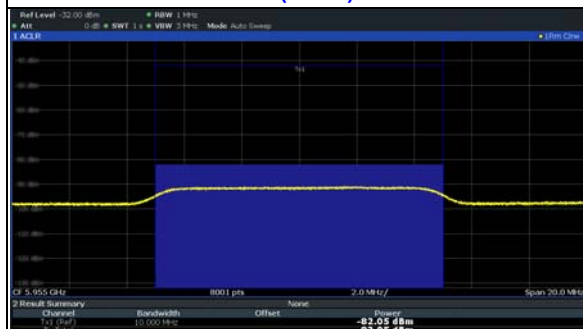
Contention Based Protocol Measurement									
Measurement Mode :		Conducted measurement		The Incumbent Signal(AWGN) Level(dBm) :			-82	at the antenna connector	
Device Type :		Indoor Client		Antenna Gain(dBi) :			0		
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Minimum Limit	Pass/Fail
802.11ax	20	1	5955	5955	10	10	100%	90%	Pass
	160	15	6025	5950	10	10	100%	90%	Pass
				6025	10	10	100%	90%	Pass
				6100	10	10	100%	90%	Pass
Result	Complied								

Lowest Interference (AWGN) Level Check							
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Threshold Level (dBm)	EUT Status
U-NII 5	802.11ax	20	1	5955	5955	-83	Start transmitting
		160	15	6025	5950	-83	Start transmitting
					6025	-83	Start transmitting
					6100	-83	Start transmitting

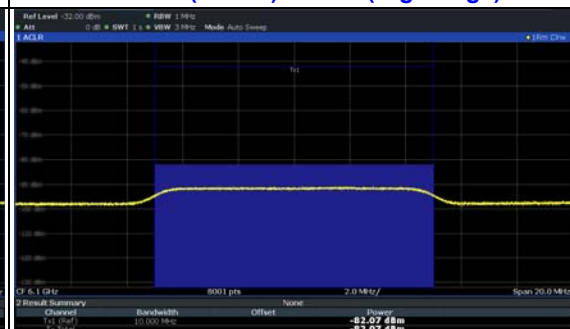


Plots of Incumbent signal(AWGN) Level

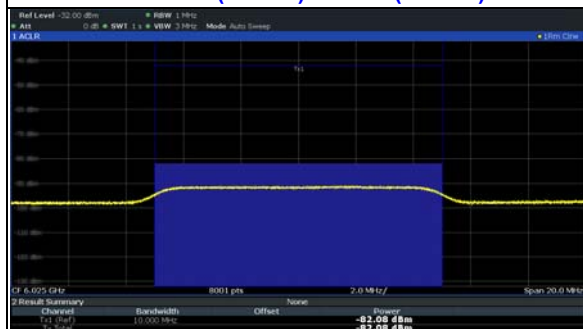
802.11ax (HE20) / CH1



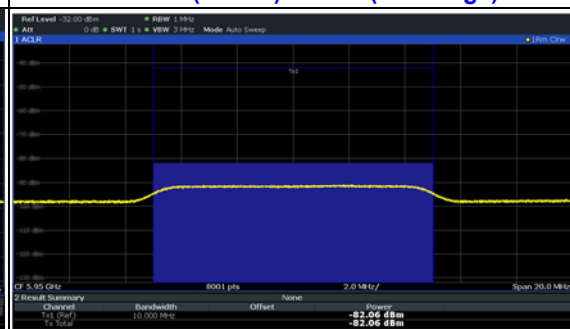
802.11ax (HE160) / CH15 (High Edge)

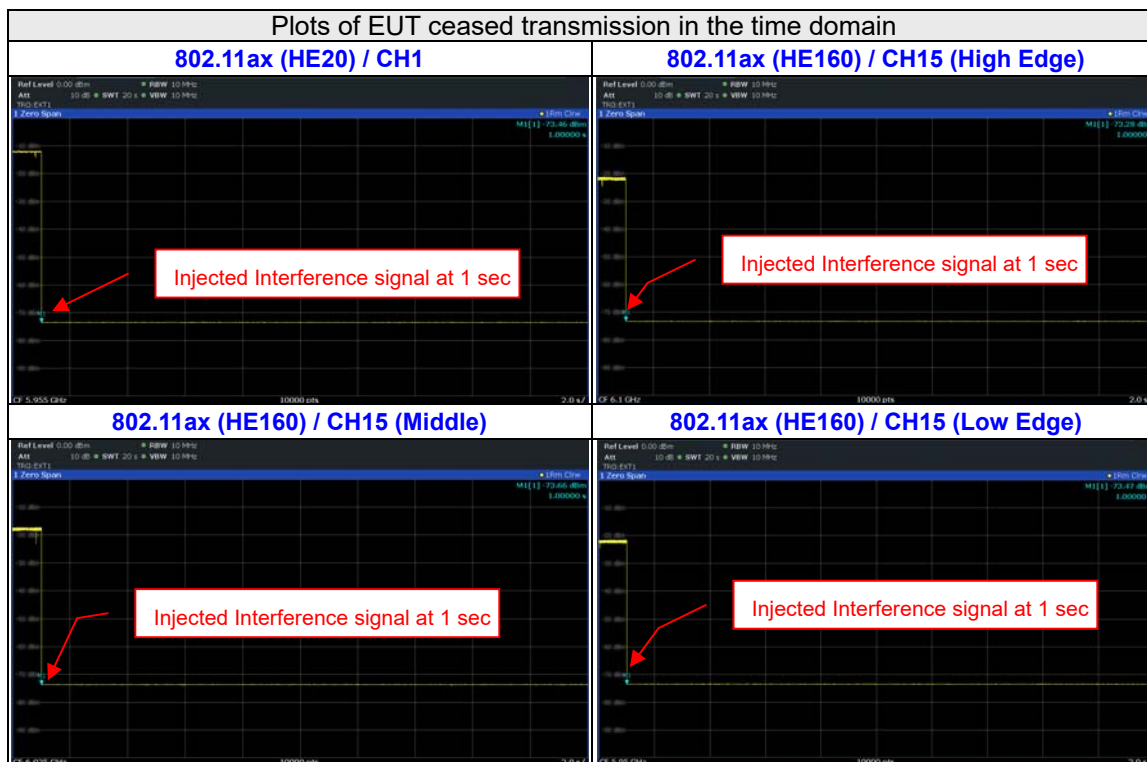


802.11ax (HE160) / CH15 (Middle)



802.11ax (HE160) / CH15 (Low Edge)

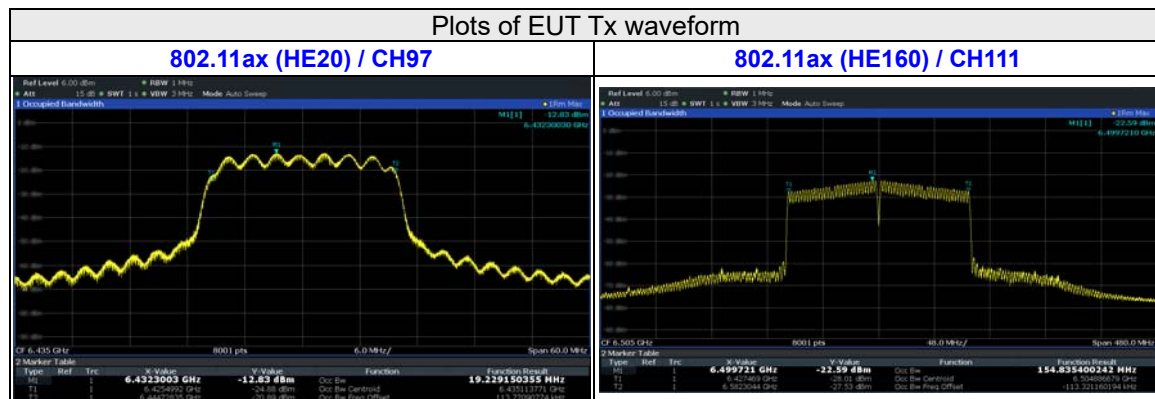




For U-NII-6 band

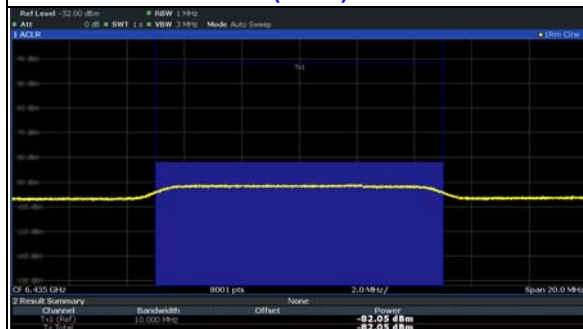
Contention Based Protocol Measurement									
Measurement Mode :		Conducted measurement		The Incumbent Signal(AWGN) Level(dBm) :			-82	at the antenna connector	
Device Type :		Indoor Client		Antenna Gain(dBi) :			0		
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Minimum Limit	Pass/Fail
802.11ax	20	97	6435	6435	10	10	100%	90%	Pass
	160	111	6505	6430	10	10	100%	90%	Pass
				6505	10	10	100%	90%	Pass
				6580	10	10	100%	90%	Pass
Result	Complied								

Lowest Interference (AWGN) Level Check							
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Threshold Level (dBm)	EUT Status
U-NII 6	802.11ax	20	97	6435	6435	-83	Start transmitting
		160	111	6505	6430	-83	Start transmitting
					6505	-83	Start transmitting
					6580	-83	Start transmitting

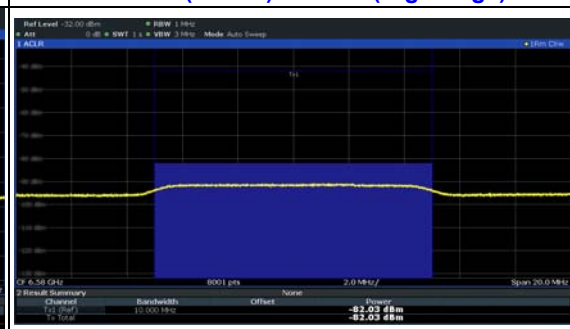


Plots of Incumbent signal(AWGN) Level

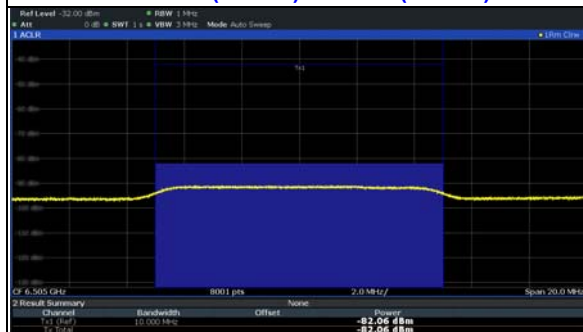
802.11ax (HE20) / CH97



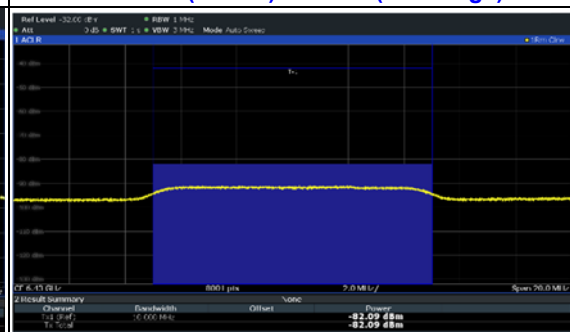
802.11ax (HE160) / CH111 (High Edge)



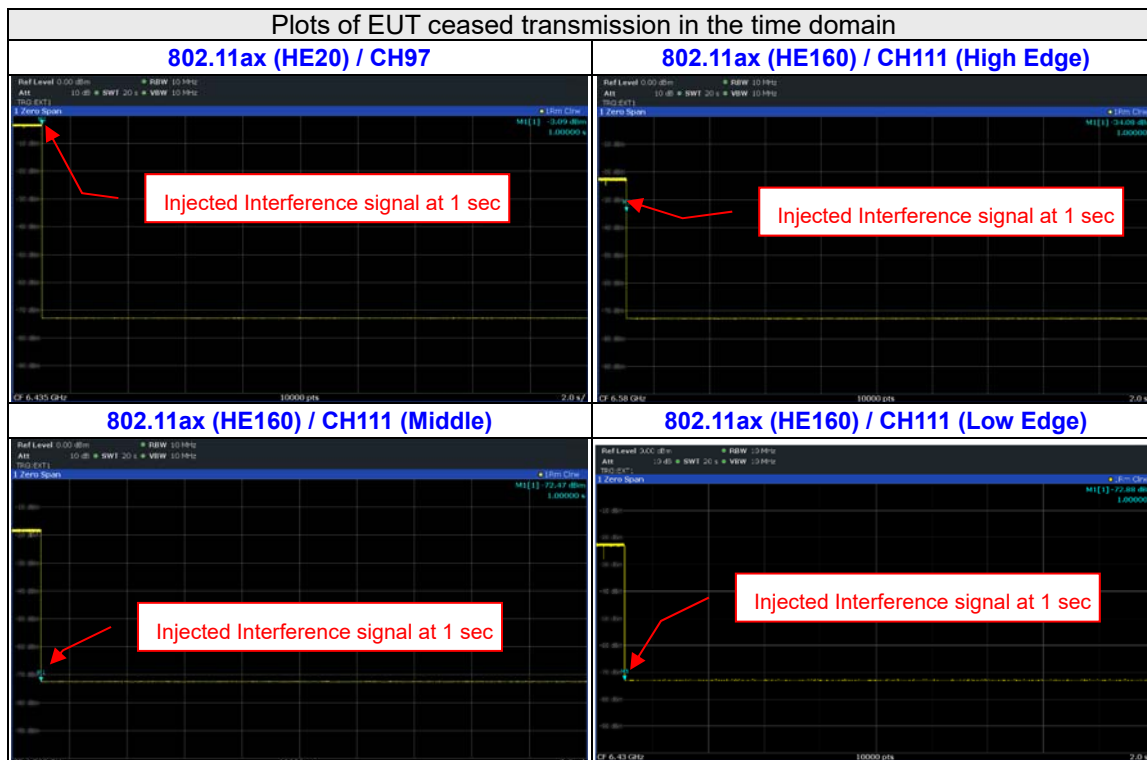
802.11ax (HE160) / CH111 (Middle)



802.11ax (HE160) / CH111 (Low Edge)



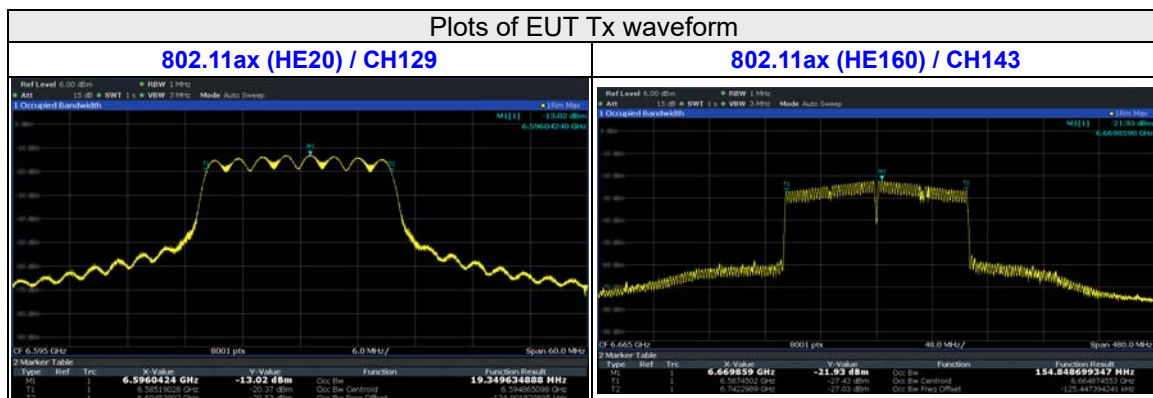
Plots of EUT ceased transmission in the time domain



For U-NII-7 band

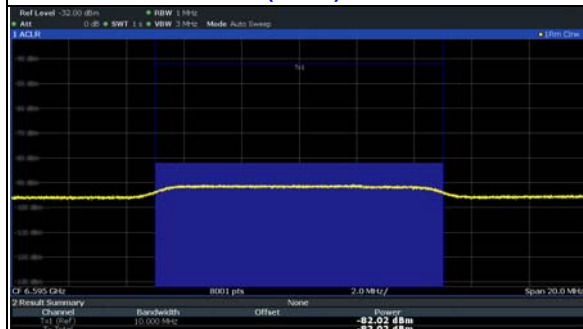
Contention Based Protocol Measurement									
Measurement Mode :		Conducted measurement		The Incumbent Signal(AWGN) Level(dBm) :			-82	at the antenna connector	
Device Type :		Indoor Client		Antenna Gain(dBi) :			0		
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Minimum Limit	Pass/Fail
802.11ax	20	129	6595	6595	10	10	100%	90%	Pass
	160	143	6665	6590	10	10	100%	90%	Pass
				6665	10	10	100%	90%	Pass
				6740	10	10	100%	90%	Pass
Result	Complied								

Lowest Interference (AWGN) Level Check							
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Threshold Level (dBm)	EUT Status
U-NII 7	802.11ax	20	129	6595	6595	-83	Start transmitting
		160	143	6665	6590	-83	Start transmitting
					6665	-83	Start transmitting
					6740	-83	Start transmitting

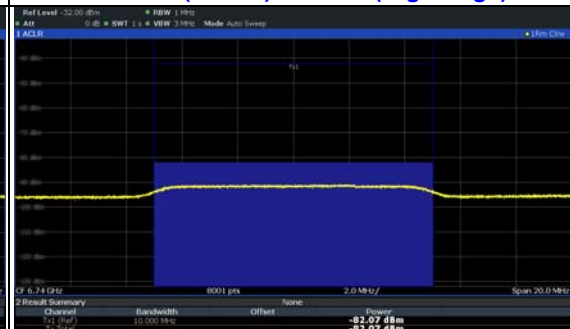


Plots of Incumbent signal(AWGN) Level

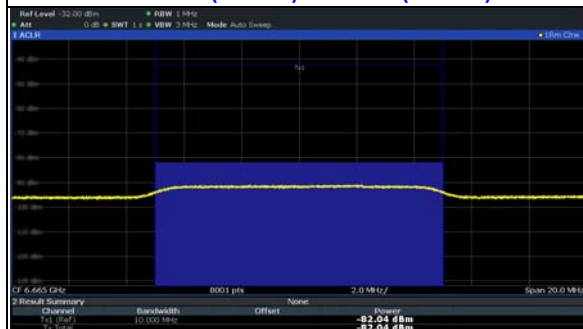
802.11ax (HE20) / CH129



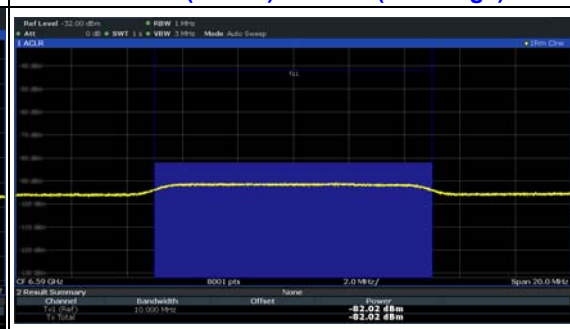
802.11ax (HE160) / CH143 (High Edge)

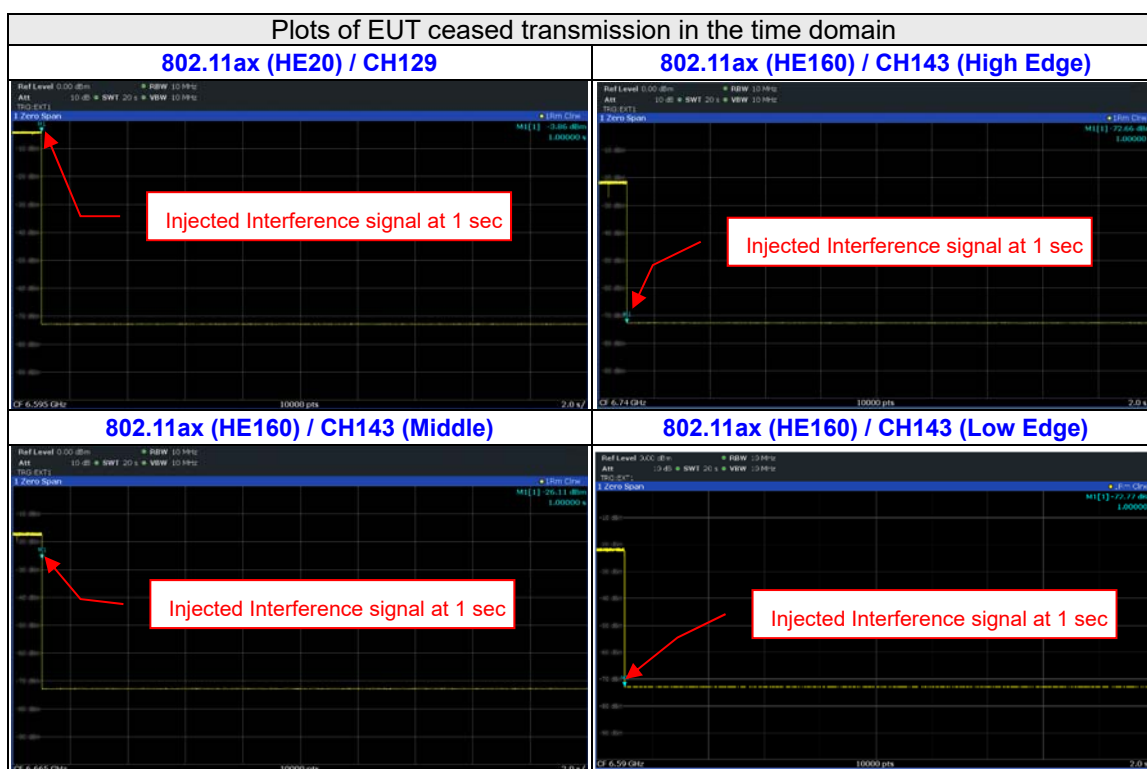


802.11ax (HE160) / CH151 (Middle)



802.11ax (HE160) / CH143 (Low Edge)

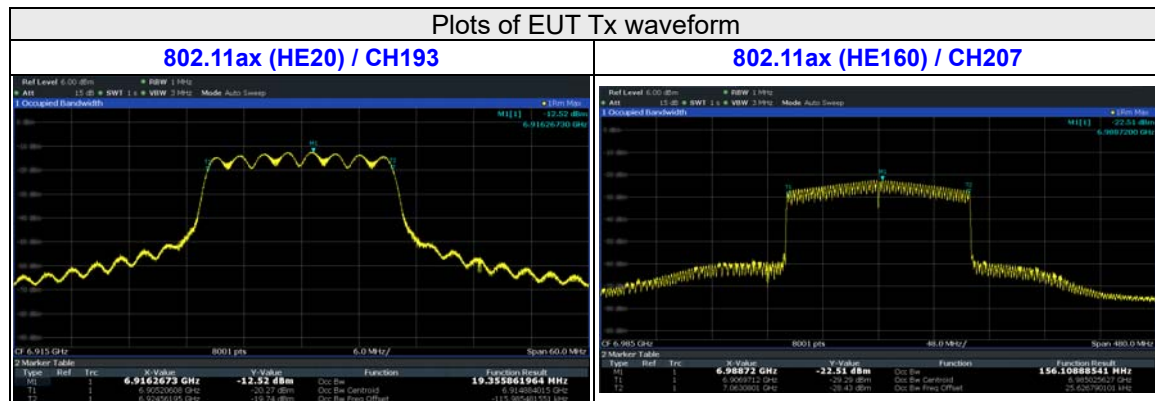




For U-NII-8 band

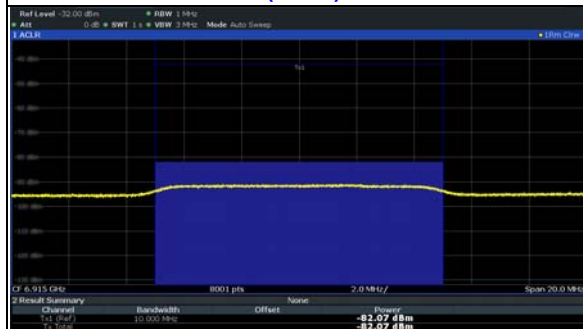
Contention Based Protocol Measurement									
Measurement Mode :		Conducted measurement		The Incumbent Signal(AWGN) Level(dBm) :			-82	at the antenna connector	
Device Type :		Indoor Client		Antenna Gain(dBi) :			0		
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Number of Times	Number of Detected	Detection Rate	Minimum Limit	Pass/Fail
802.11ax	20	193	6915	6915	10	10	100%	90%	Pass
	160	207	6985	6910	10	10	100%	90%	Pass
				6985	10	10	100%	90%	Pass
				7060	10	10	100%	90%	Pass
Result	Complied								

Lowest Interference (AWGN) Level Check							
Operation Band	Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Frequency (MHz)	AWGN Signal Frequency (MHz)	Threshold Level (dBm)	EUT Status
U-NII 8	802.11ax	20	193	6915	6915	-83	Start transmitting
		160	207	6985	6910	-83	Start transmitting
					6985	-83	Start transmitting
					7060	-83	Start transmitting

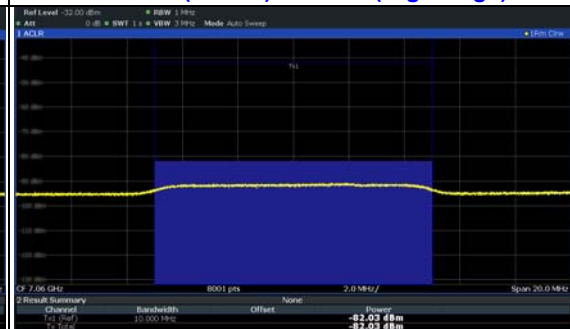


Plots of Incumbent signal(AWGN) Level

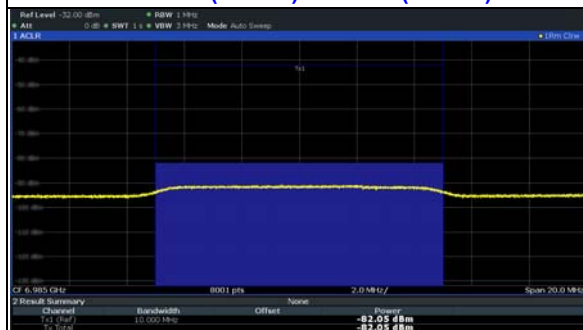
802.11ax (HE20) / CH193



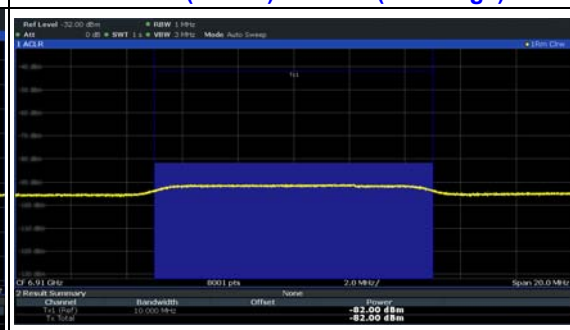
802.11ax (HE160) / CH207 (High Edge)

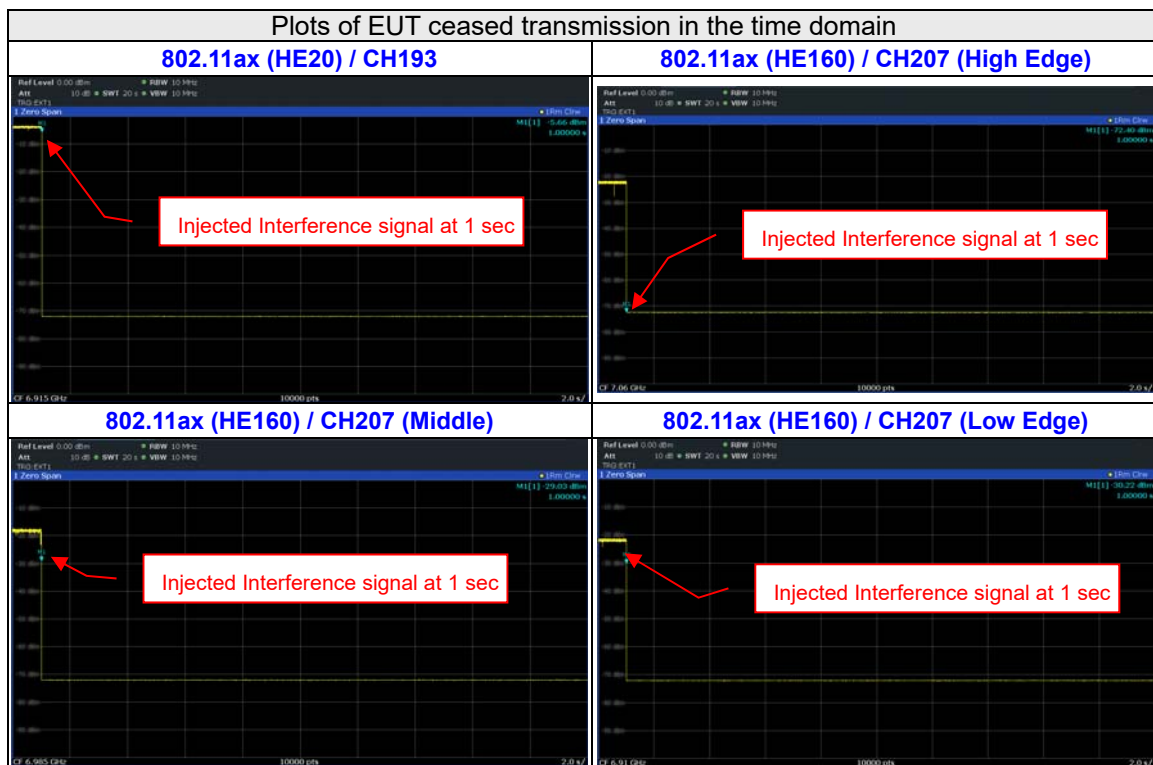


802.11ax (HE160) / CH207 (Middle)



802.11ax (HE160) / CH207 (Low Edge)



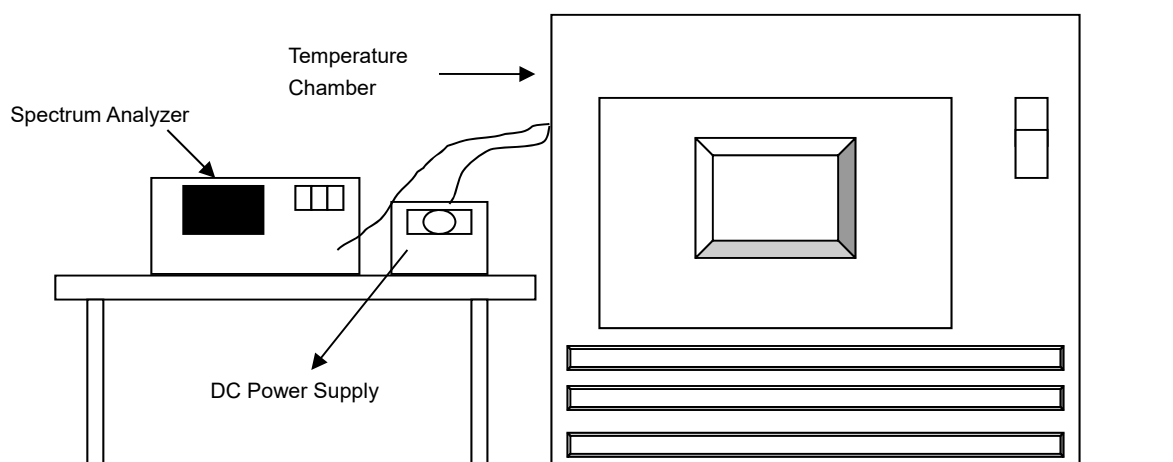


4.8 Frequency Stability Measurement

4.8.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

4.8.2 Test Setup



4.8.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.8.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed..
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.8.5 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.8.6 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5955MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
70	3.3	5954.9845	Pass	5954.9843	Pass	5954.9853	Pass	5954.9857	Pass
60	3.3	5955.0044	Pass	5955.0086	Pass	5955.0063	Pass	5955.0058	Pass
50	3.3	5955.0106	Pass	5955.0094	Pass	5955.0070	Pass	5955.0100	Pass
40	3.3	5955.0087	Pass	5955.0049	Pass	5955.0068	Pass	5955.0086	Pass
30	3.3	5955.0068	Pass	5955.0092	Pass	5955.0114	Pass	5955.0105	Pass
20	3.3	5954.9908	Pass	5954.9909	Pass	5954.9913	Pass	5954.9932	Pass
10	3.3	5954.9936	Pass	5954.9921	Pass	5954.9929	Pass	5954.9908	Pass
0	3.3	5954.9935	Pass	5954.9939	Pass	5954.9930	Pass	5954.9972	Pass
-10	3.3	5955.0046	Pass	5955.0050	Pass	5955.0013	Pass	5955.0066	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5955MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	3.795	5954.9901	Pass	5954.9906	Pass	5954.9906	Pass	5954.9926	Pass
	3.3	5954.9908	Pass	5954.9909	Pass	5954.9913	Pass	5954.9932	Pass
	2.805	5954.9897	Pass	5954.9907	Pass	5954.9906	Pass	5954.9938	Pass

4.9 Operational Restrictions for 6 GHz U-NII Devices

4.9.1 Limits of Operational Restrictions for 6 GHz U-NII Devices

In the 5.925-7.125 GHz band, client devices, except fixed client devices, must operate under the control of a standard power access point, indoor access point or subordinate devices; Subordinate devices must operate under the control of an indoor access point.

4.9.2 Test Setup

N/A

4.9.3 Test Instruments

N/A

4.9.4 Test Procedure

N/A.

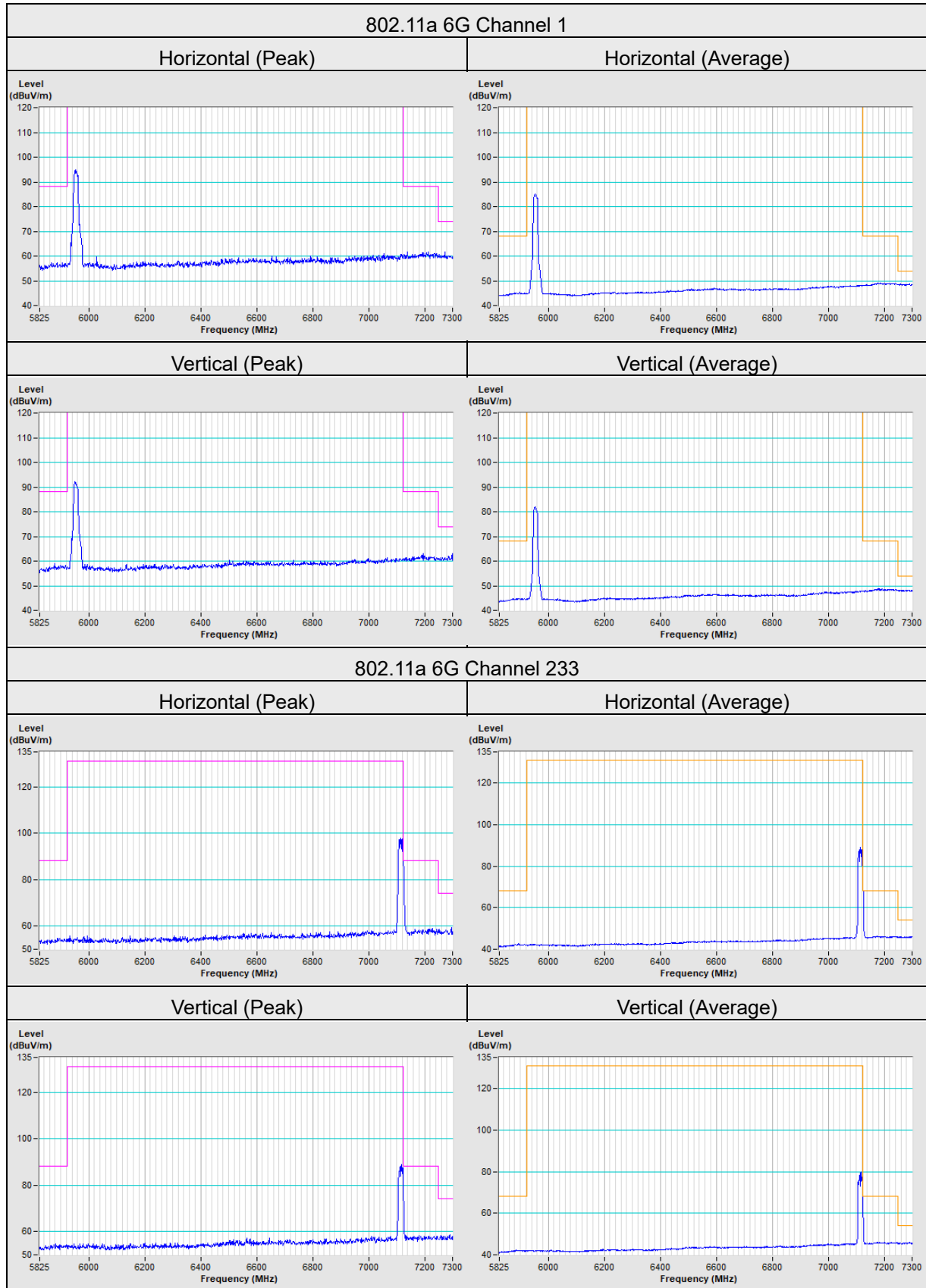
4.9.5 Test Results

Device is an indoor client device under the control of a low power indoor access point. Please refer to the declaration letter exhibit supplied within this application.

5 Pictures of Test Arrangements

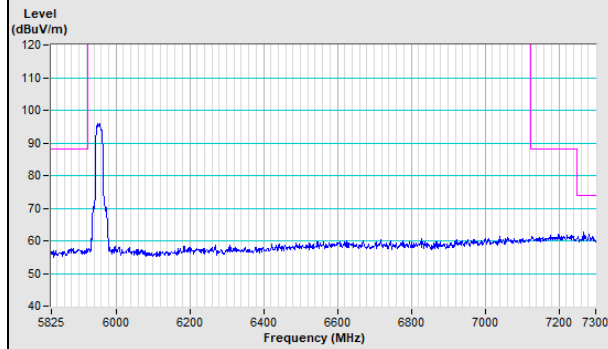
Please refer to the attached file (Test Setup Photo).

Annex A - Band-Edge Measurement

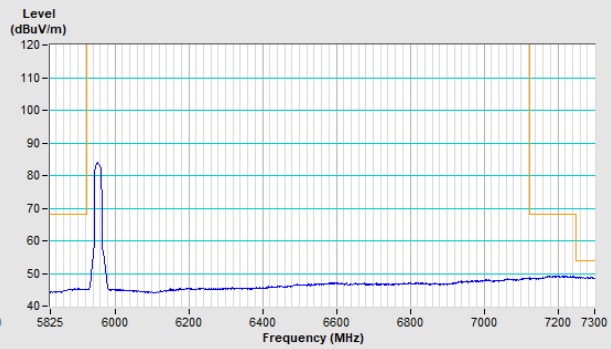


802.11ax (HE20) Channel 1

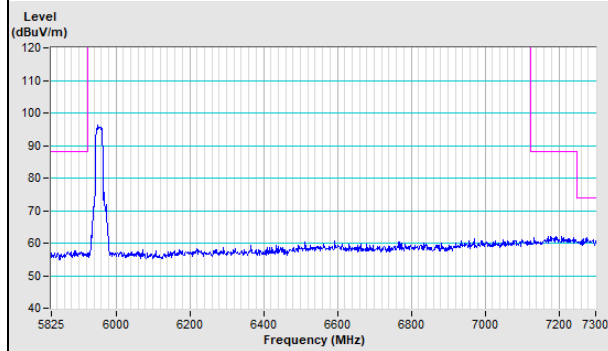
Horizontal (Peak)



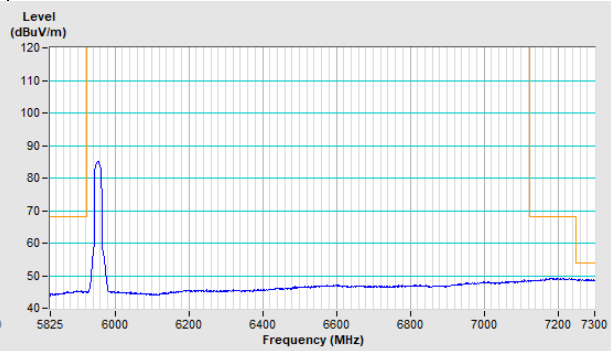
Horizontal (Average)



Vertical (Peak)

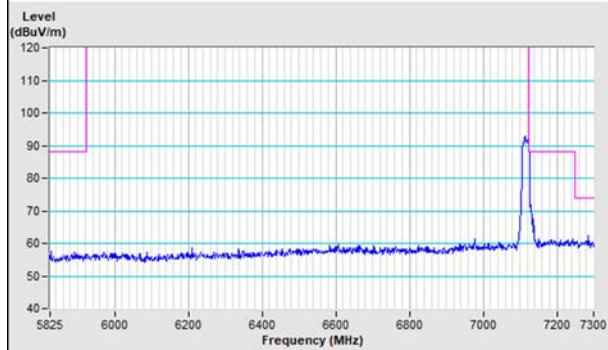


Vertical (Average)

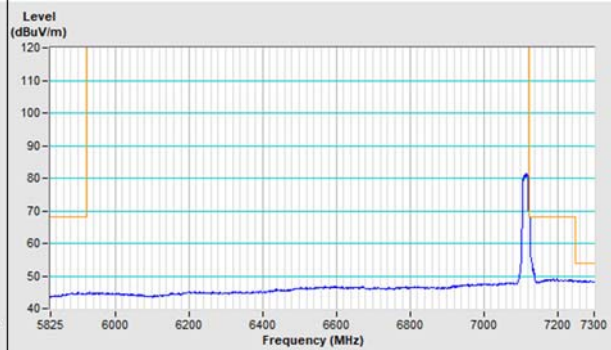


802.11ax (HE20) Channel 233

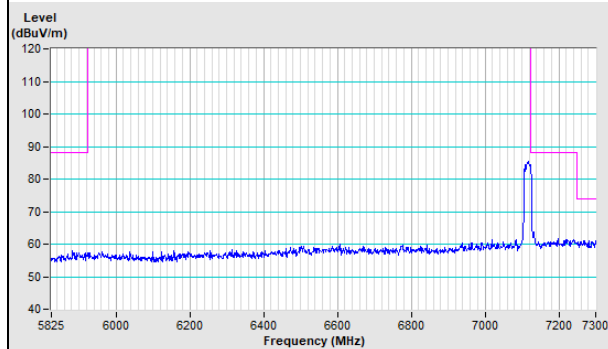
Horizontal (Peak)



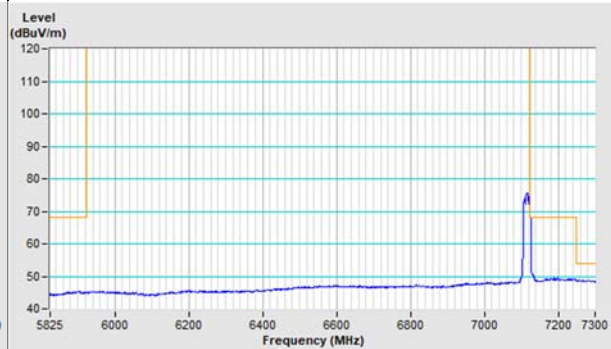
Horizontal (Average)

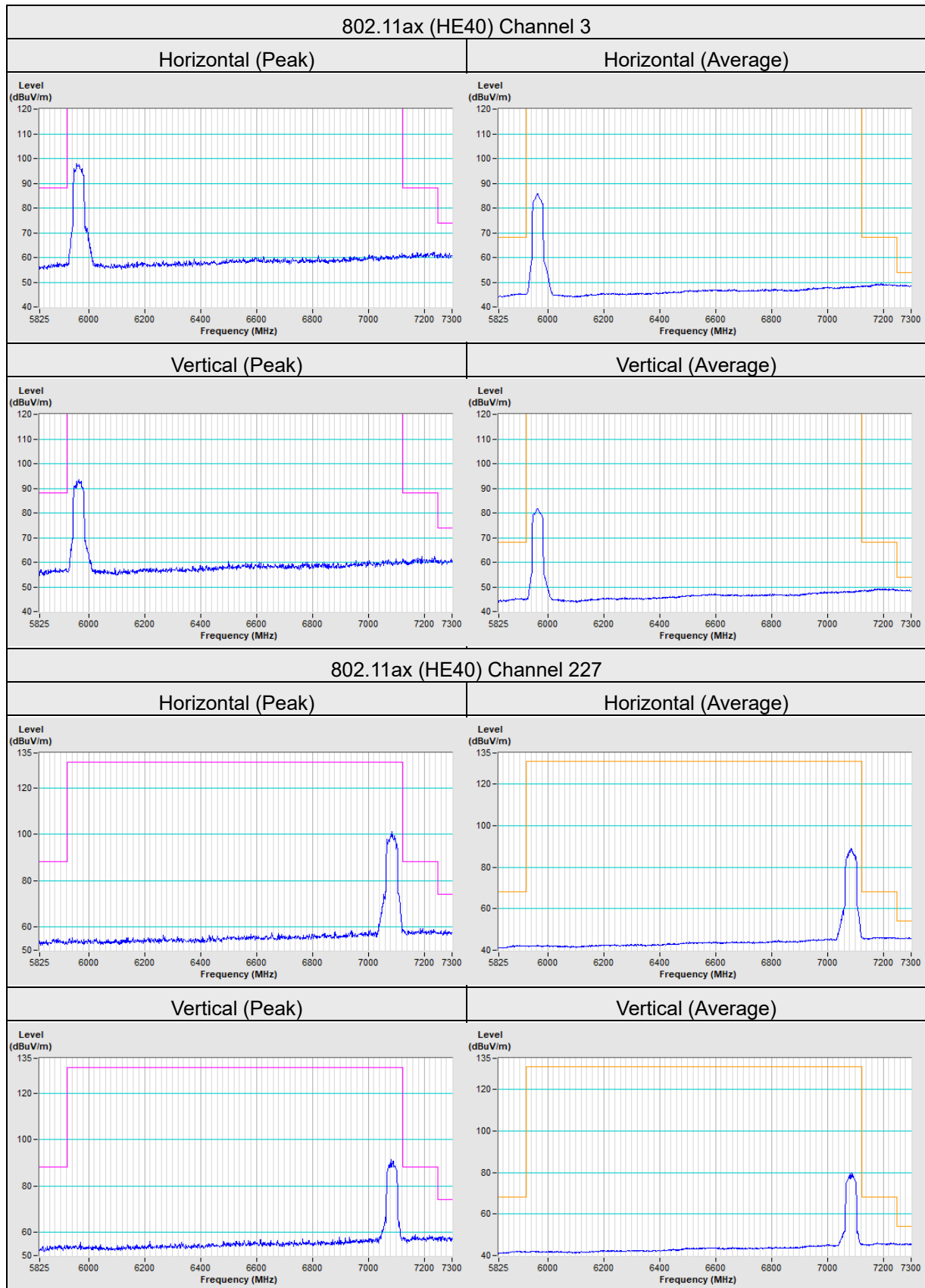


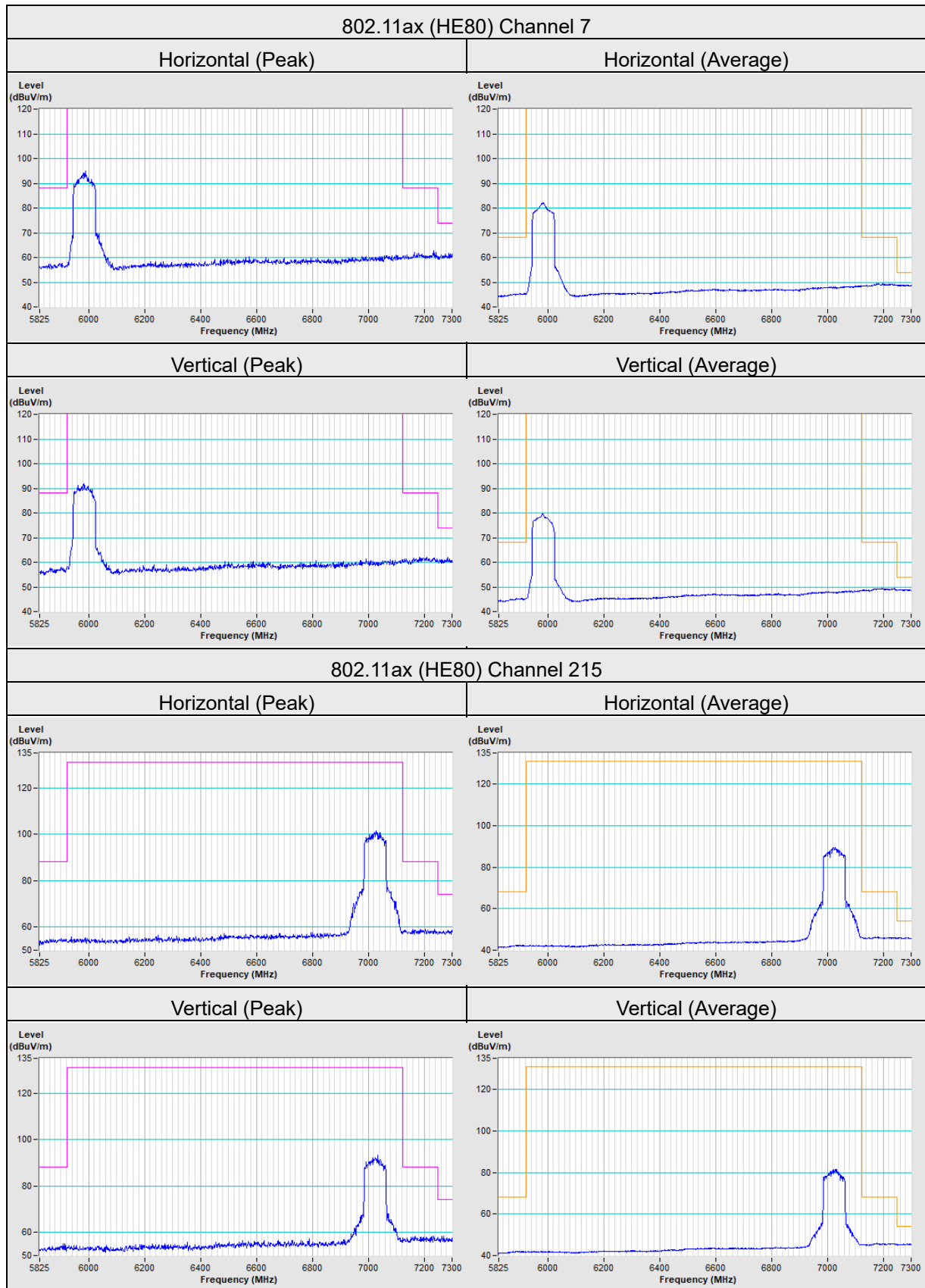
Vertical (Peak)

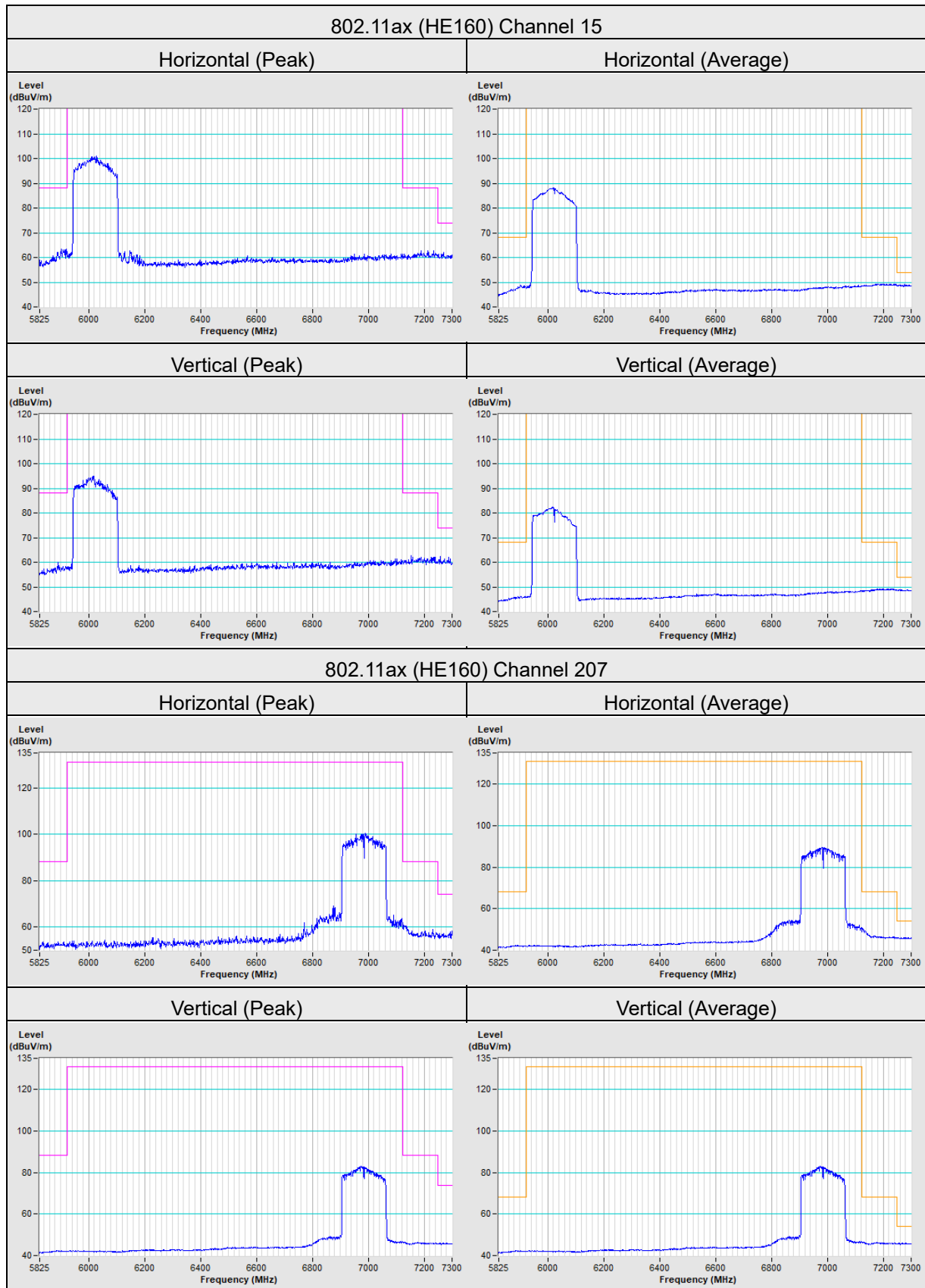


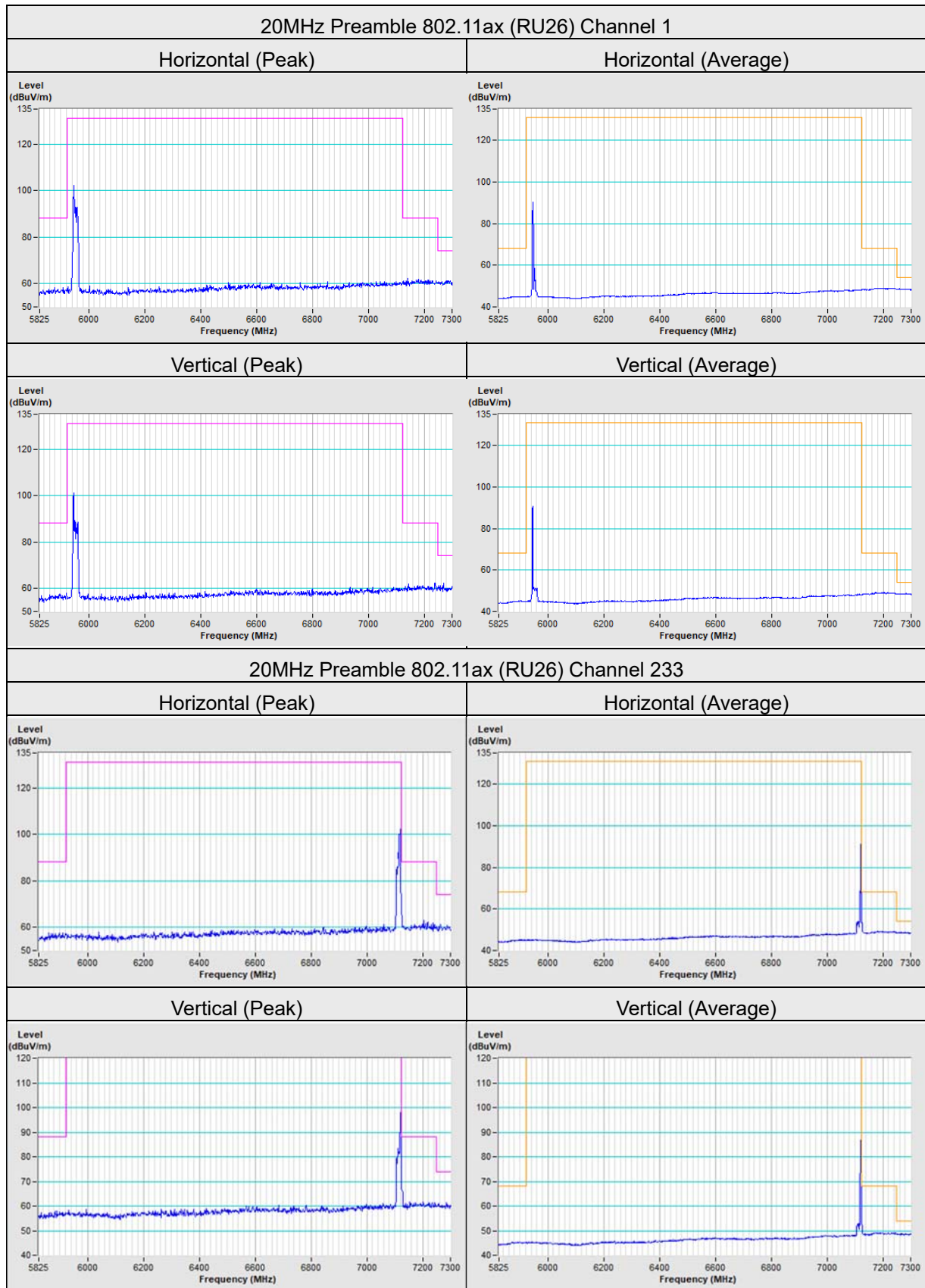
Vertical (Average)

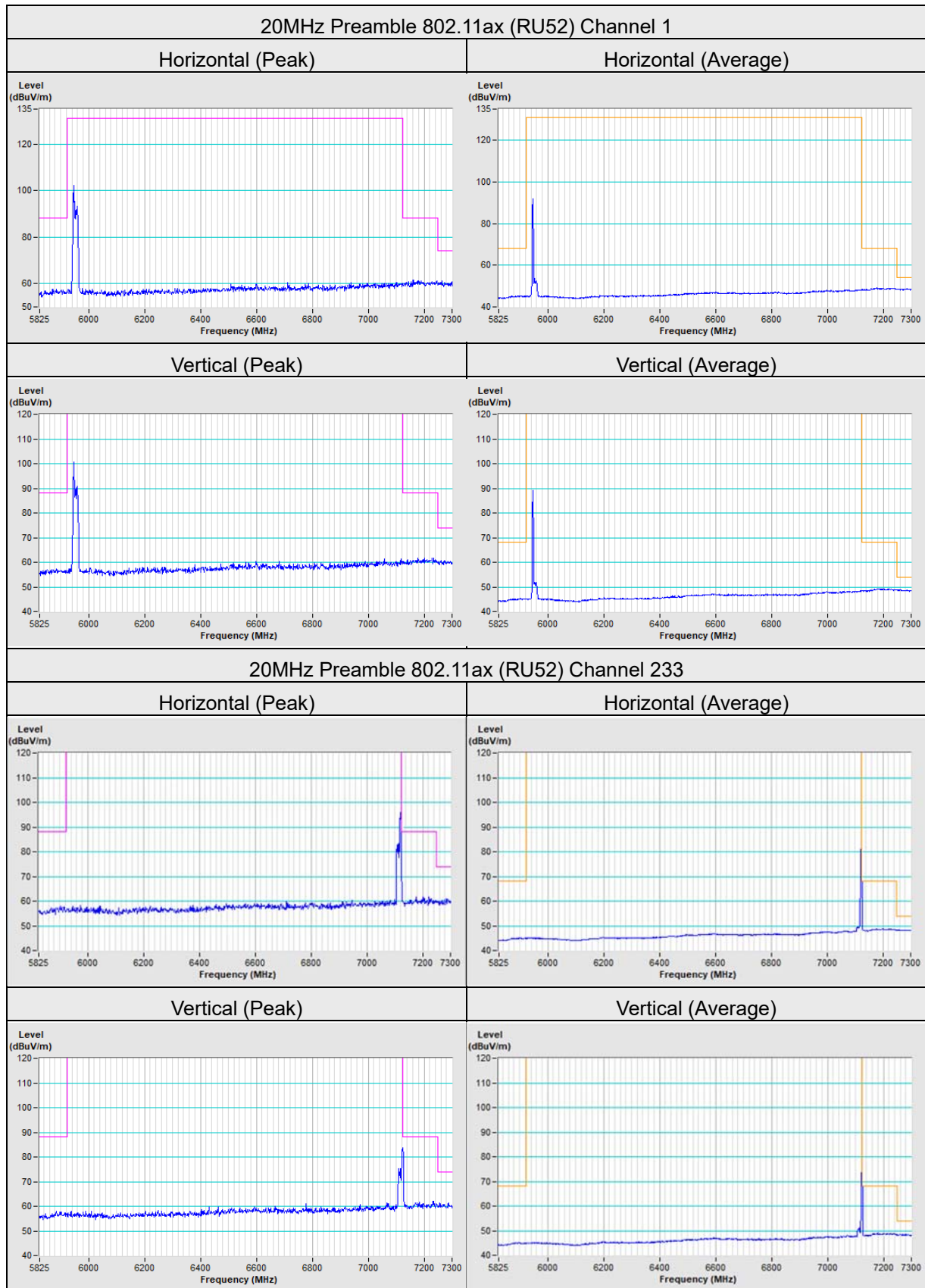


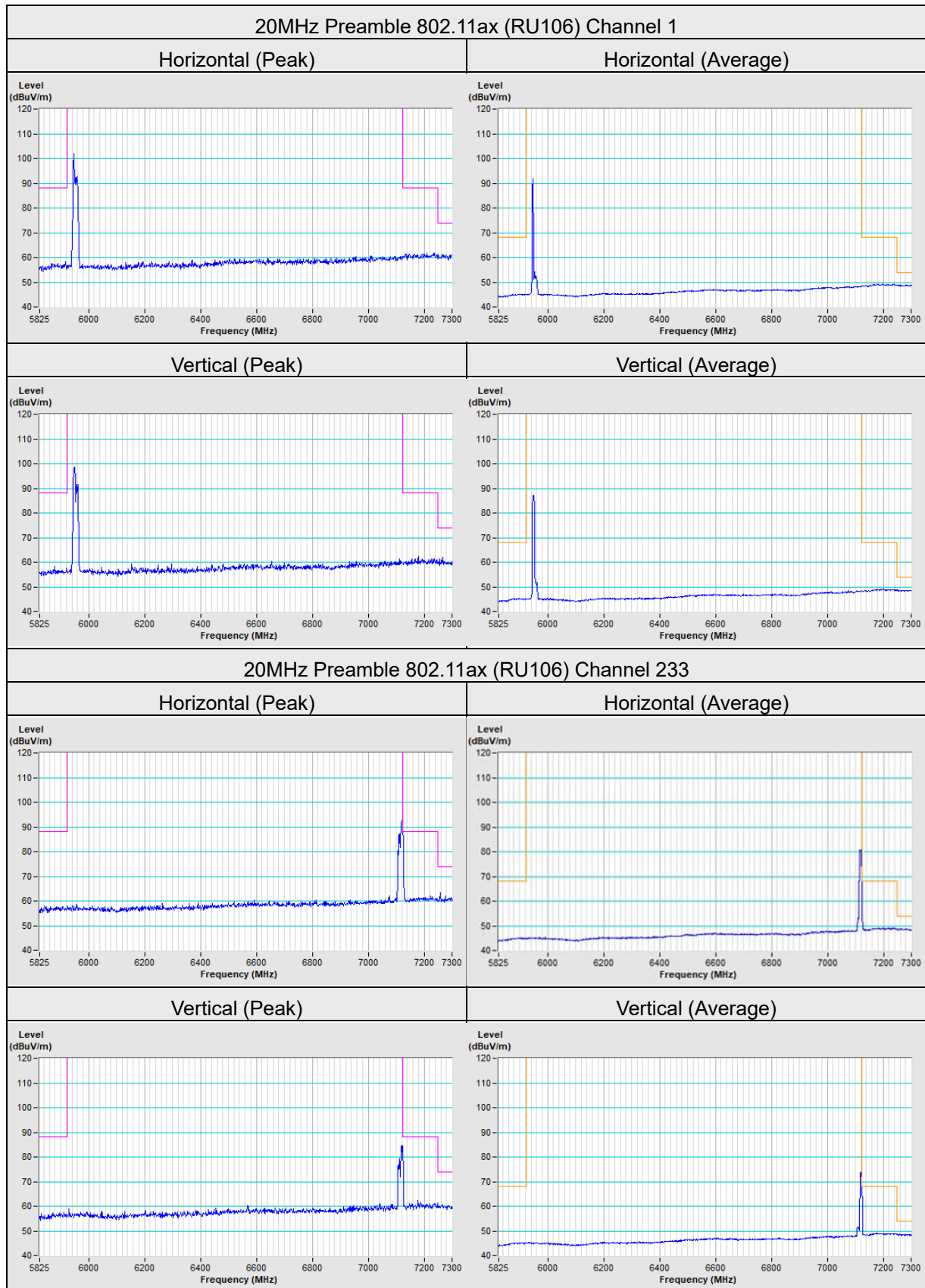












Appendix A– Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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