



40 MHz Bandwidth - Core 0-1 (CDD)

Mode	Data Rate/MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE40	MCS11x1	SU	-	5965	5925	70.95	56.54
802.11ax HE40	MCS11x1	26	17	5965	5925	65.54	48.39
802.11ax HE40	MCS11x1	SU	-	7085	7125	69.60	55.38
802.11ax HE40	MCS11x1	26	0	7085	7125	75.85	55.77

Table 310 - CDD Authorised Band Edge Results

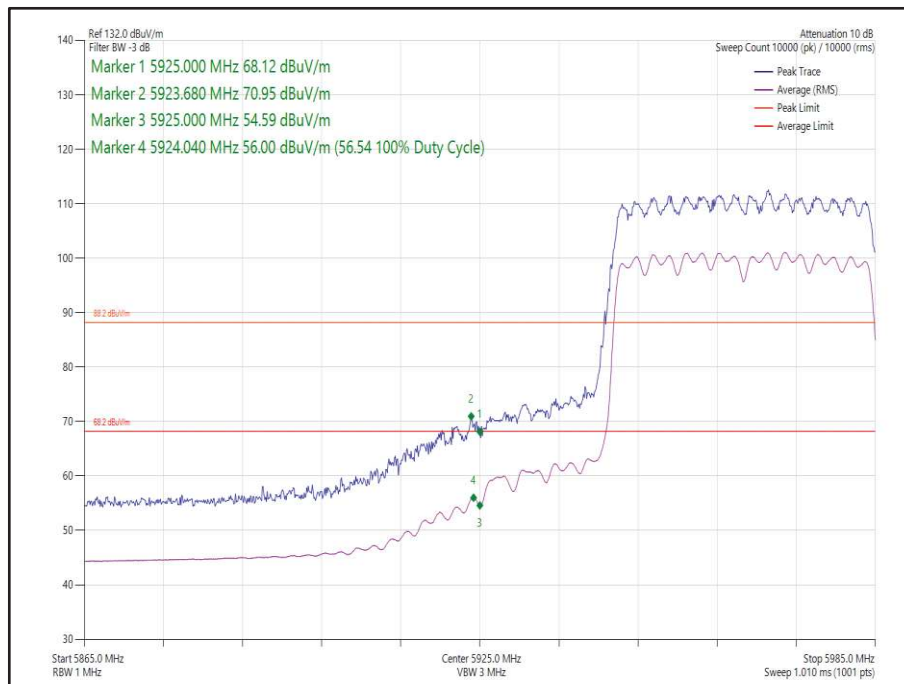
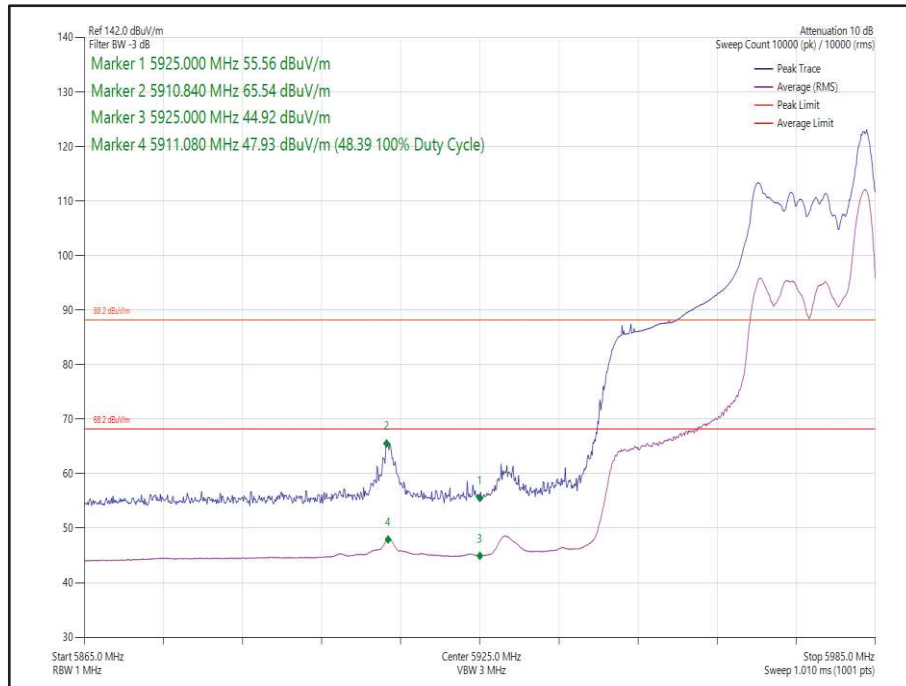
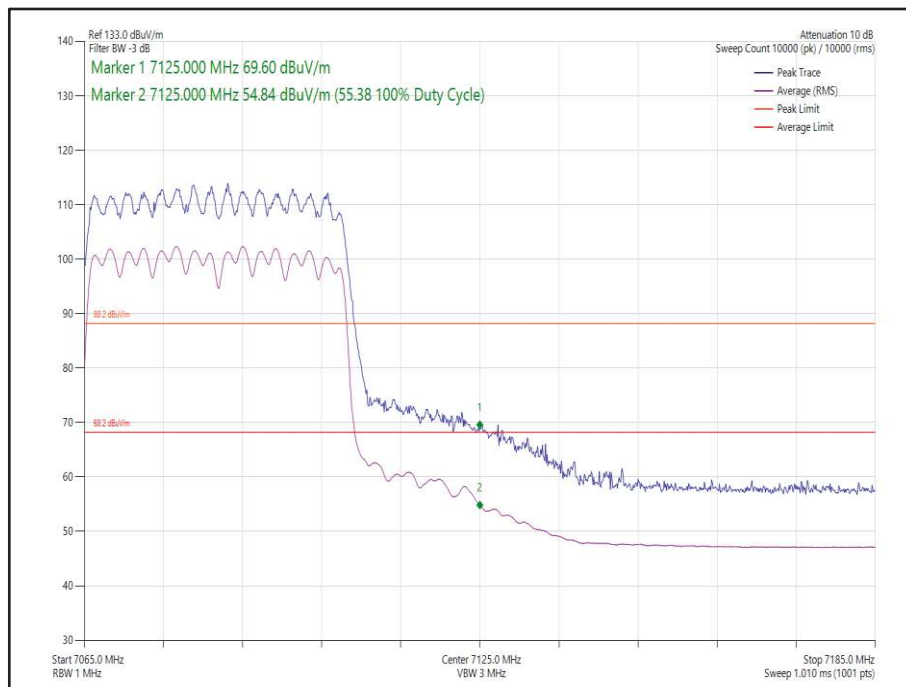


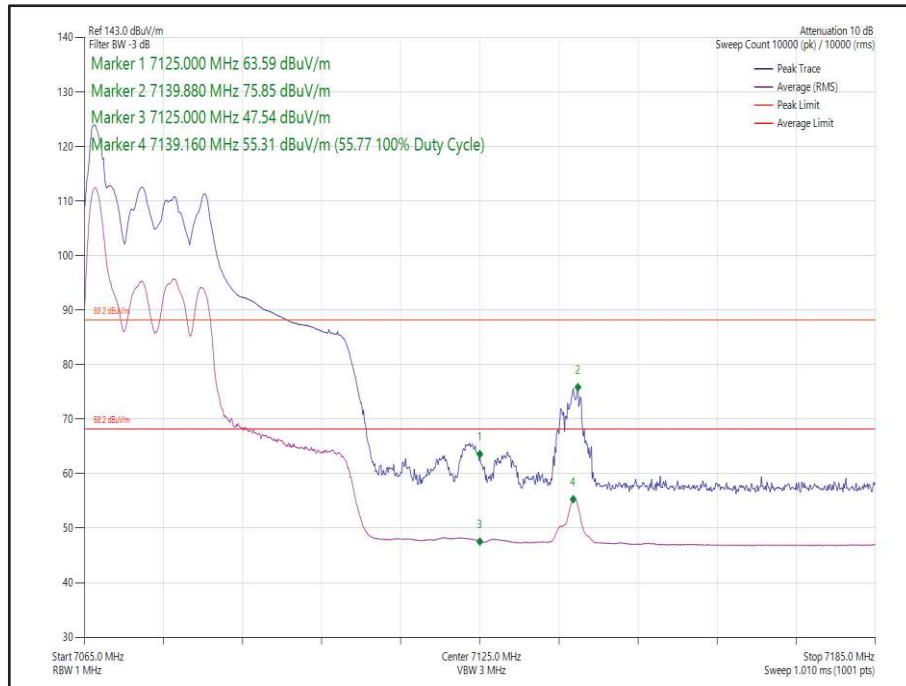
Figure 69 - 802.11ax, HE40, SU, CDD, Core 0-1 - 5965 MHz, Band Edge Frequency 5925 MHz



**Figure 70 - 802.11ax, HE40, RU26-17, CDD, Core 0-1 - 5965 MHz,
Band Edge Frequency 5925 MHz**



**Figure 71 - 802.11ax, HE40, SU, CDD, Core 0-1 - 7085 MHz,
Band Edge Frequency 7125 MHz**



**Figure 72 - 802.11ax, HE40, RU26-0, CDD, Core 0-1 - 7085 MHz,
Band Edge Frequency 7125 MHz**



40 MHz Bandwidth - Core 0-1 (SDM)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE40	MCS11x2	SU	-	5965	5925	69.73	56.44
802.11ax HE40	MCS11x2	26	0	6365	5925	56.27	44.48
802.11ax HE40	MCS11x2	SU	-	7085	7125	69.22	54.44
802.11ax HE40	MCS11x2	26	17	7085	7125	65.11	47.94

Table 311 - SDM Authorised Band Edge Results

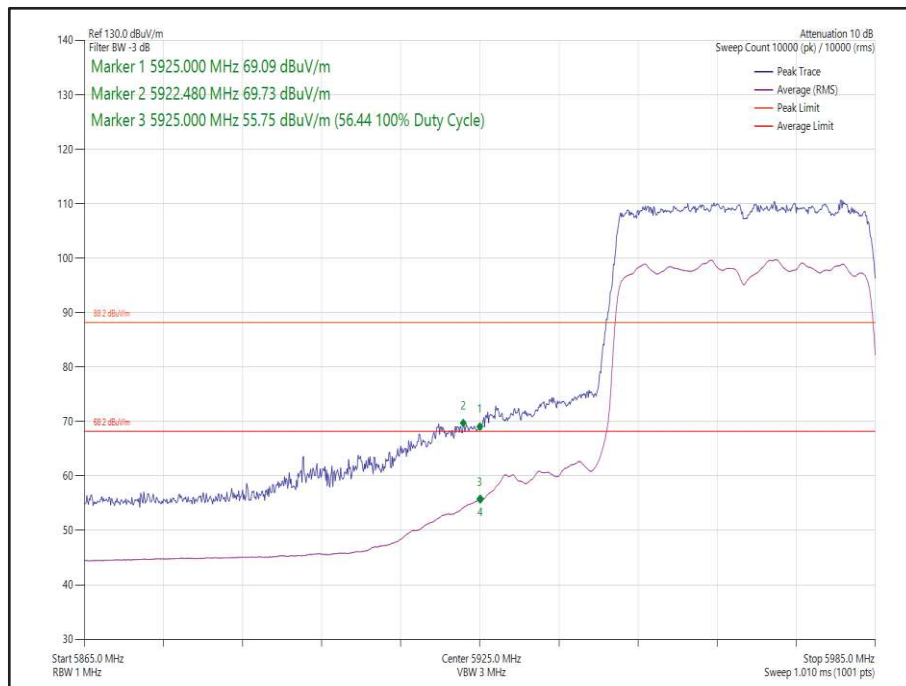


Figure 73 - 802.11ax, HE40, SU, SDM, Core 0-1 - 5965 MHz, Band Edge Frequency 5925 MHz

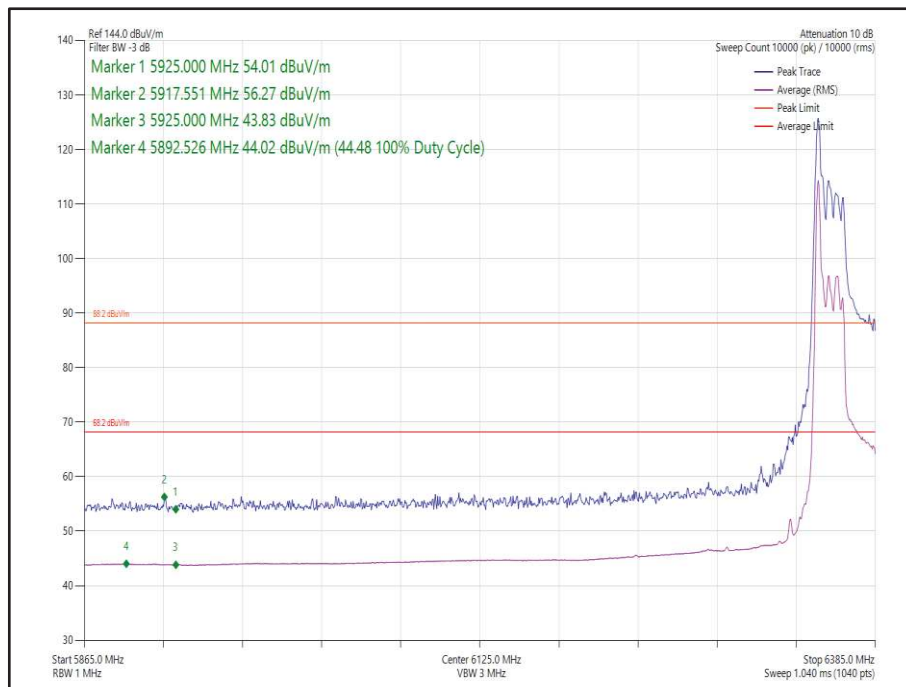


Figure 74 - 802.11ax, HE40, RU26-0, SDM, Core 0-1 - 6365 MHz, Band Edge Frequency 5925 MHz

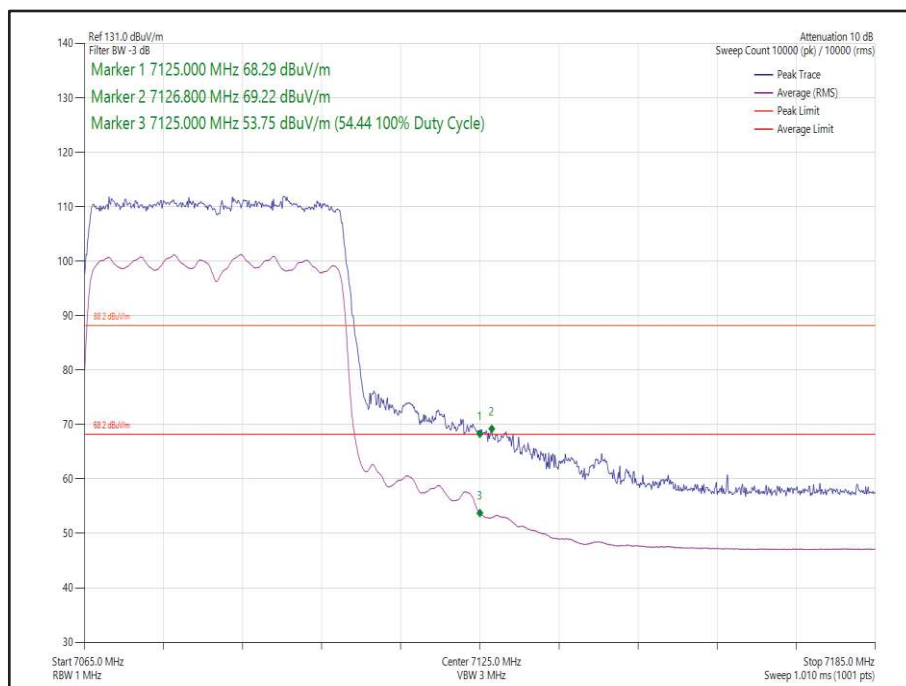
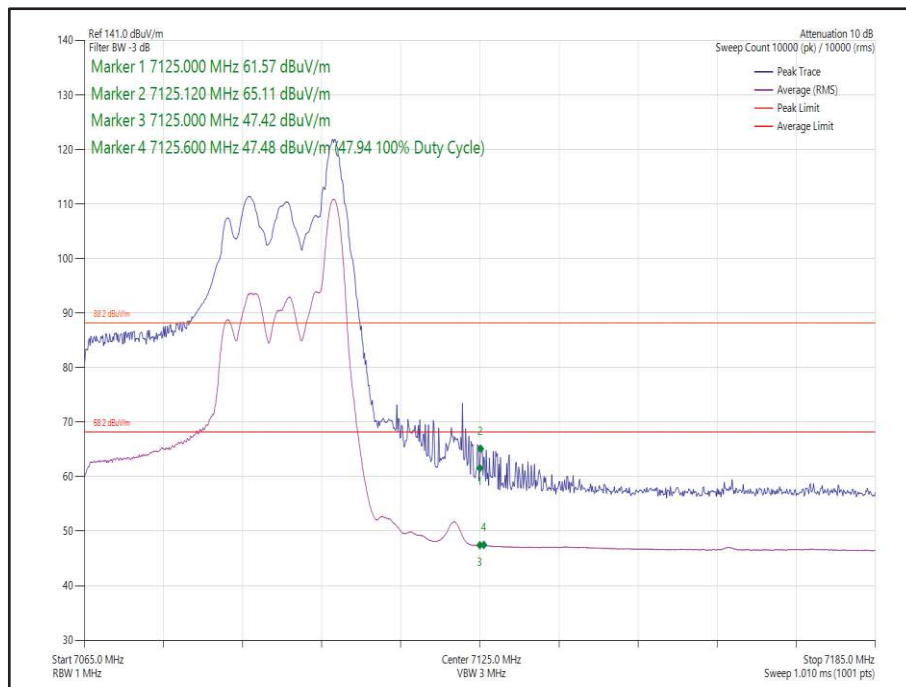


Figure 75 - 802.11ax, HE40, SU, SDM, Core 0-1 - 7085 MHz, Band Edge Frequency 7125 MHz



**Figure 76 - 802.11ax, HE40, RU26-17, SDM Core 0-1 - 7085 MHz,
Band Edge Frequency 7125 MHz**



40 MHz Bandwidth - Core 0-1 (TxBF)

Mode	Data Rate/MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE40	MCS11x1	SU	-	5965	5925	69.72	47.46
802.11ax HE40	MCS11x1	SU	-	7085	7125	73.09	52.03

Table 312 - TxBF Authorised Band Edge Results

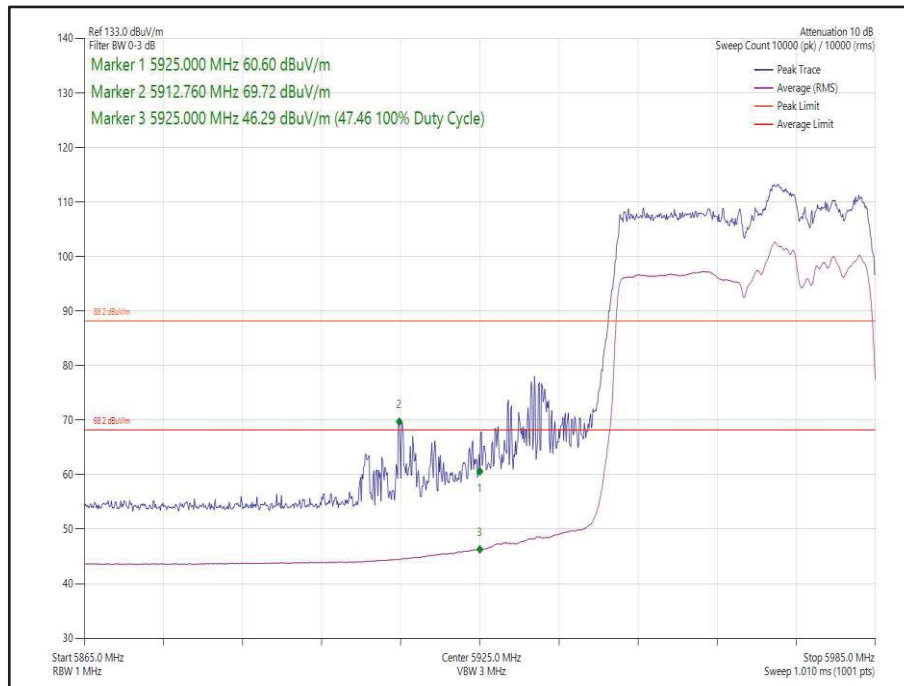
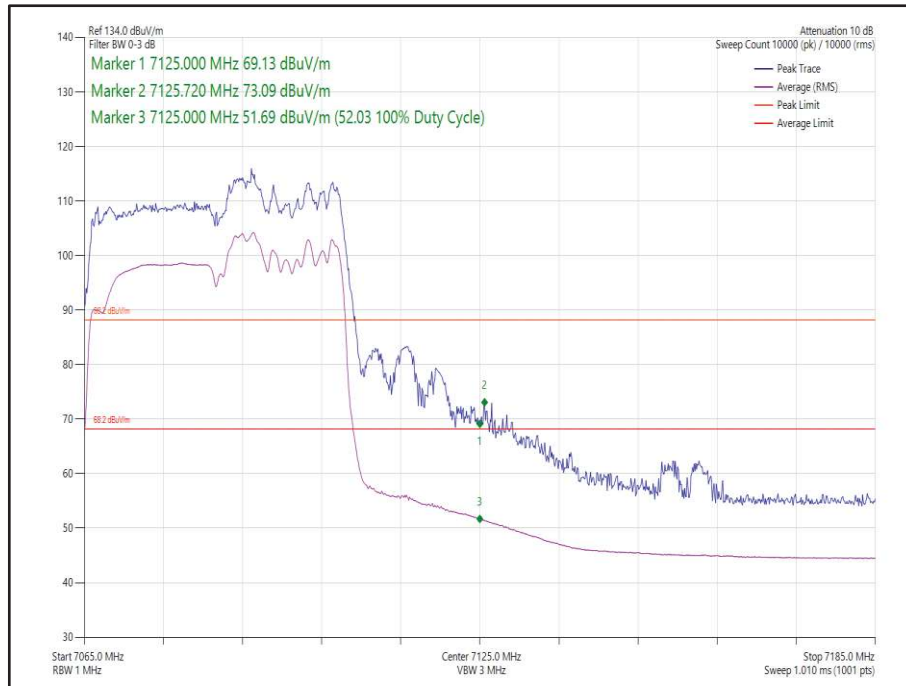


Figure 77 - 802.11ax, HE40, SU, TxBF, Core 0-1 - 5965 MHz, Band Edge Frequency 5925 MHz



**Figure 78 - 802.11ax, HE40, SU, TxBF, Core 0-1 - 7085 MHz,
Band Edge Frequency 7125 MHz**



80 MHz Bandwidth - Core 0 (SISO)

Mode	Data Rate/MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE80	MCS11x1	SU	-	5985	5925	64.60	51.55
802.11ax HE80	MCS11x1	26	36	5985	5925	64.25	46.46
802.11ax HE80	MCS11x1	SU	-	7025	7125	59.76	48.05
802.11ax HE80	MCS11x1	26	0	7025	7125	70.90	48.93

Table 313 - SISO Authorised Band Edge Results

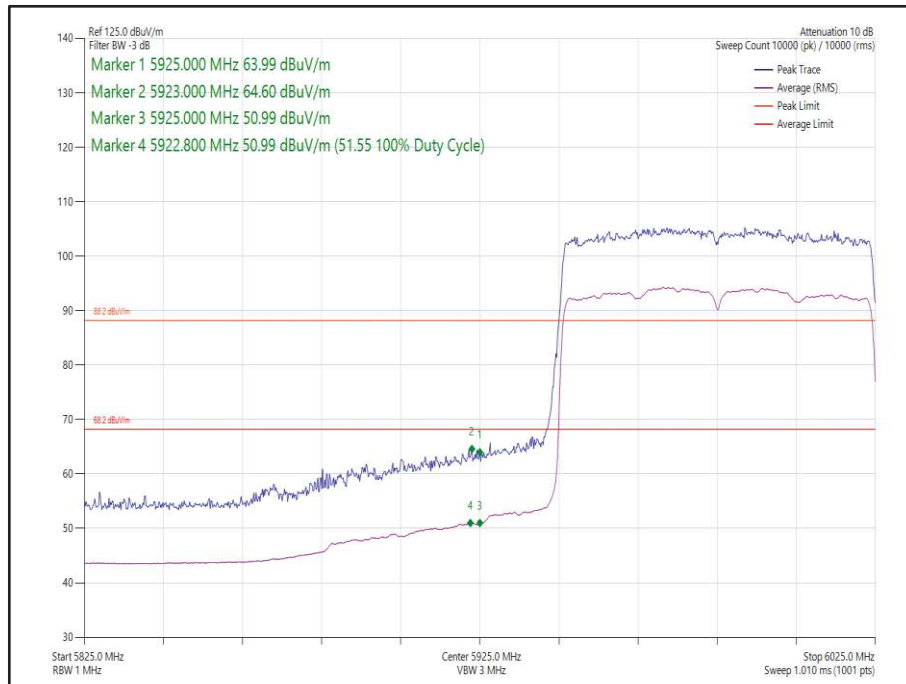


Figure 79 - 802.11ax, HE80, SU, SISO, Core 0 - 5985 MHz, Band Edge Frequency 5925 MHz

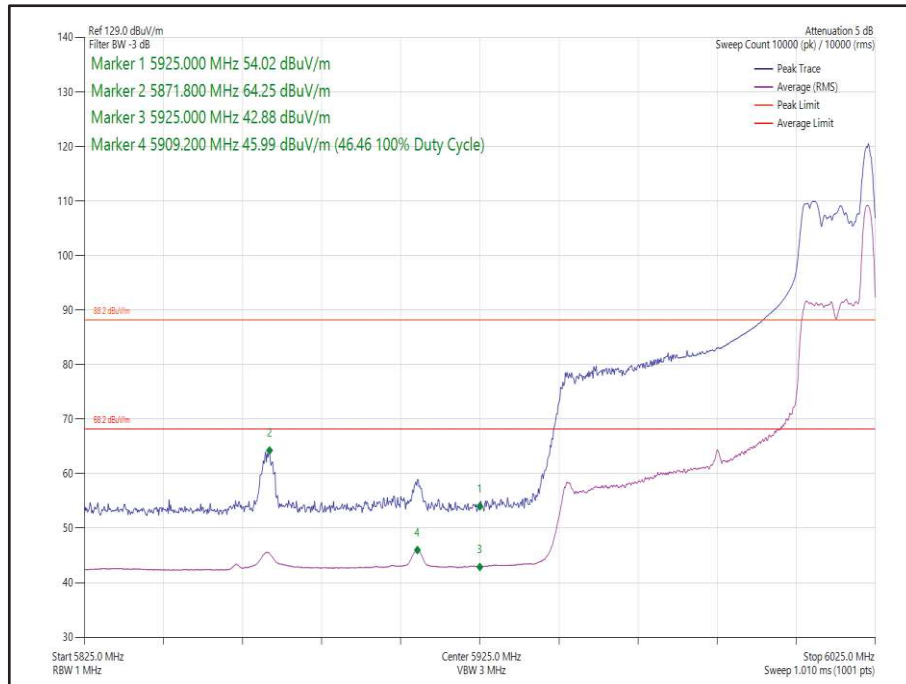


Figure 80 - 802.11ax, HE80, RU26-36, SISO, Core 0 - 5985 MHz,
Band Edge Frequency 5925 MHz

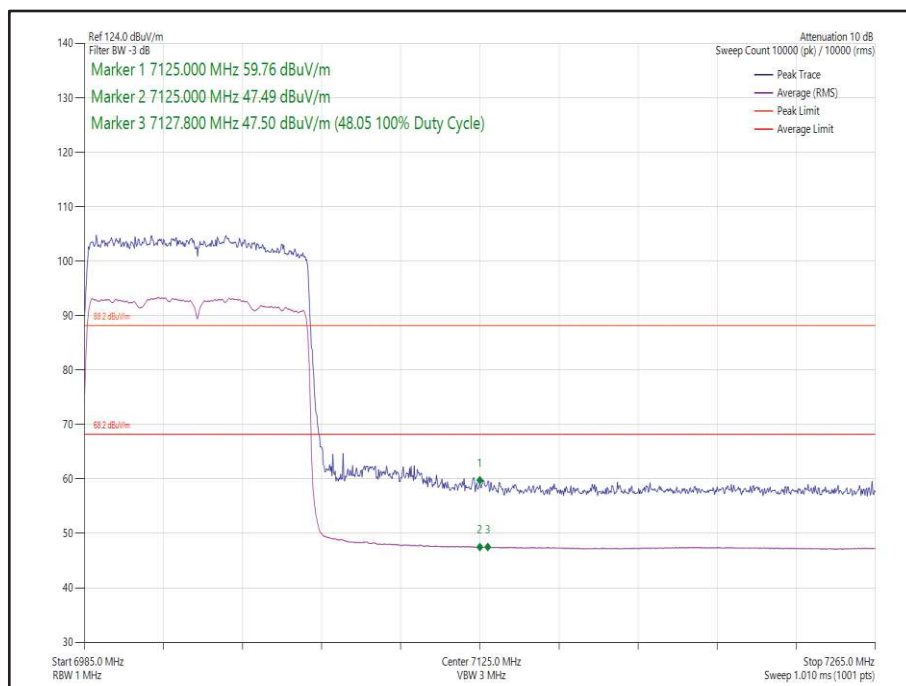
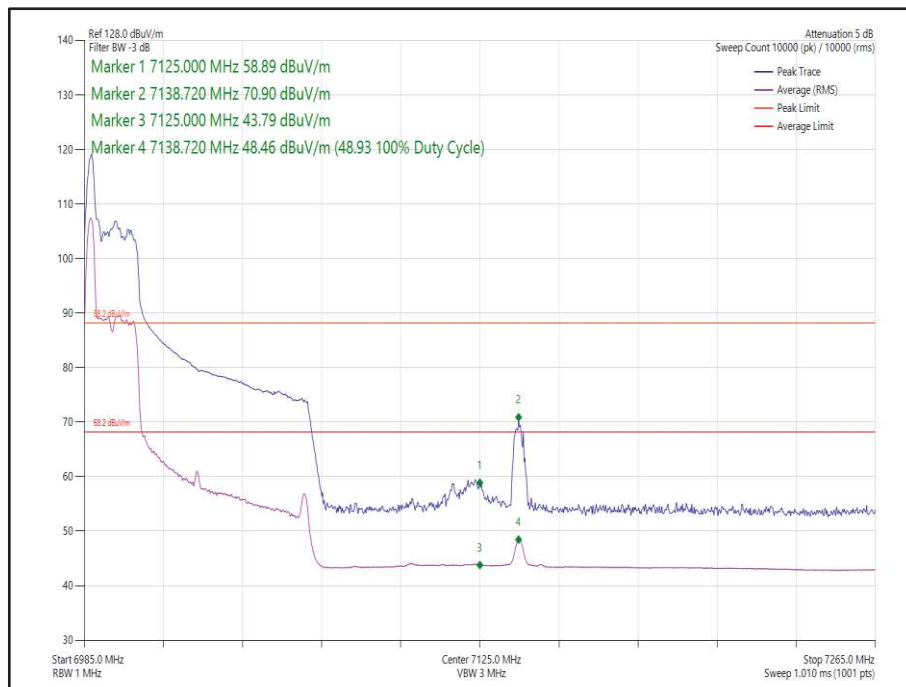


Figure 81 - 802.11ax, HE80, SU, SISO, Core 0 - 7025 MHz,
Band Edge Frequency 7125 MHz



**Figure 82 - 802.11ax, HE80, RU26-0, SISO, Core 0 - 7025 MHz,
Band Edge Frequency 7125 MHz**



80 MHz Bandwidth - Core 1 (SISO)

Mode	Data Rate/MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE80	MCS11x1	SU	-	5985	5925	70.40	55.74
802.11ax HE80	MCS11x1	26	0	5985	5925	62.40	48.65
802.11ax HE80	MCS11x1	SU	-	7025	7125	60.00	48.36
802.11ax HE80	MCS11x1	26	0	7025	7125	69.87	49.30

Table 314 - SISO Authorised Band Edge Results

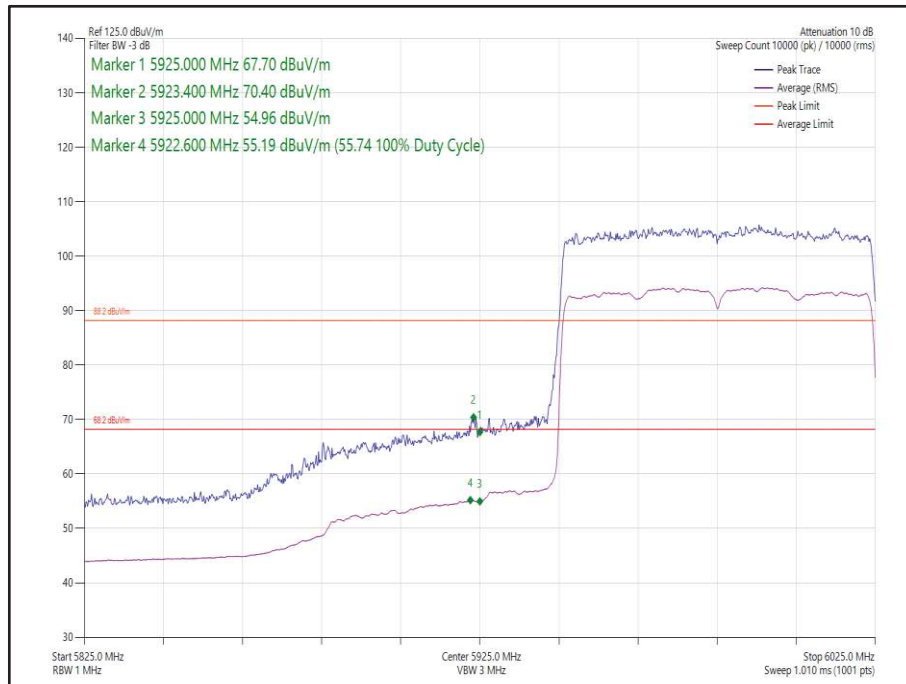
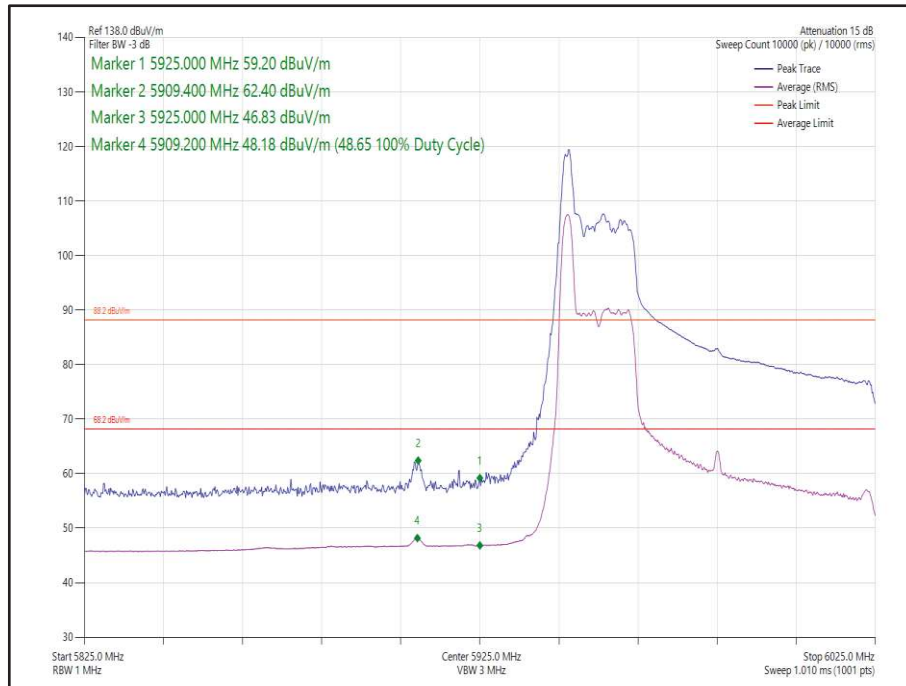
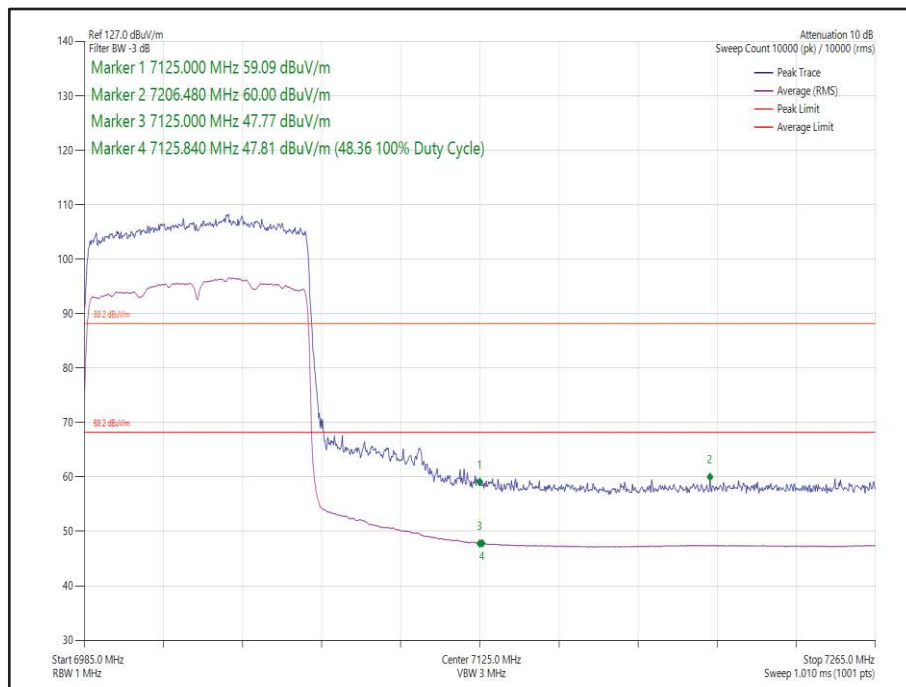


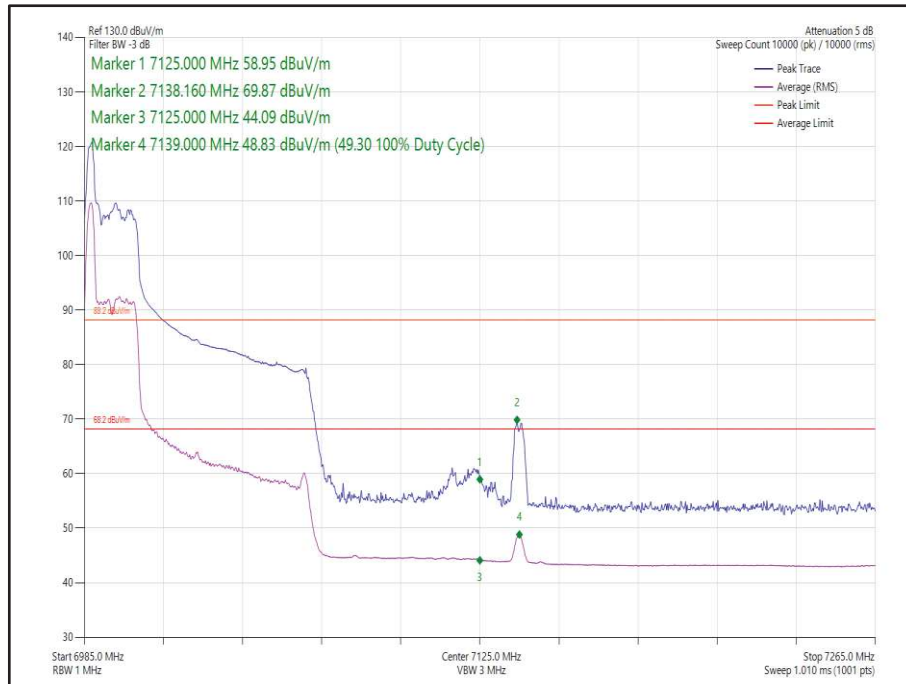
Figure 83 - 802.11ax, HE80, SU, SISO, Core 1 - 5985 MHz, Band Edge Frequency 5925 MHz



**Figure 84 - 802.11ax, HE80, RU26-0, SISO, Core 1 - 5985 MHz,
Band Edge Frequency 5925 MHz**



**Figure 85 - 802.11ax, HE80, SU, SISO, Core 1 - 7025 MHz,
Band Edge Frequency 7125 MHz**



**Figure 86 - 802.11ax, HE80, RU26-0, SISO, Core 1 - 7025 MHz,
Band Edge Frequency 7125 MHz**



80 MHz Bandwidth - Core 0-1 (CDD)

Mode	Data Rate/MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE80	MCS11x1	SU	-	5985	5925	72.54	58.59
802.11ax HE80	MCS11x1	26	0	5985	5925	68.15	49.80
802.11ax HE80	MCS11x1	SU	-	7025	7125	62.38	48.75
802.11ax HE80	MCS11x1	26	0	7025	7125	73.45	57.27

Table 315 - CDD Authorised Band Edge Results

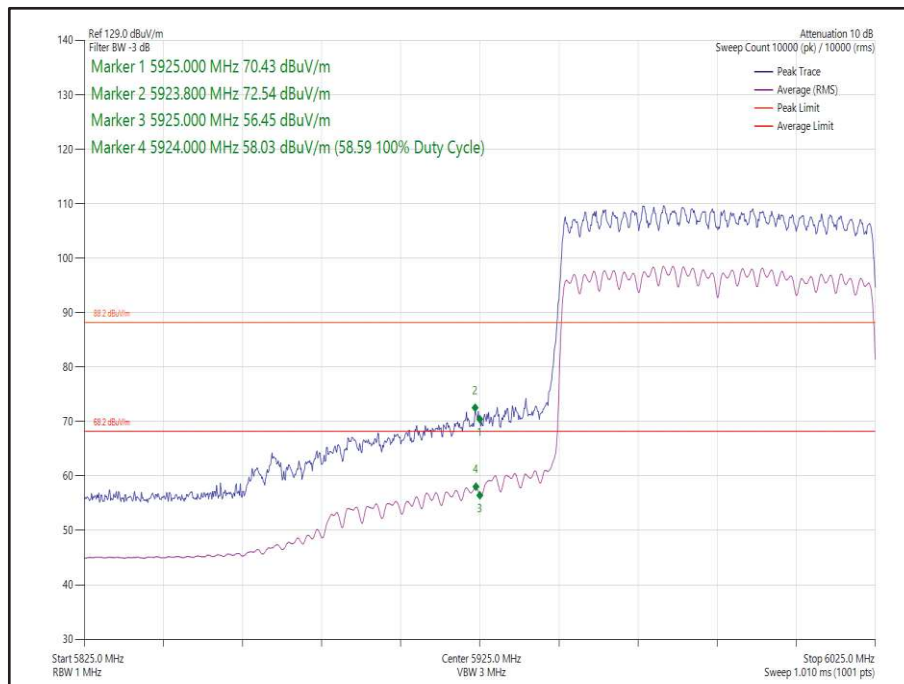


Figure 87 - 802.11ax, HE80, SU, CDD, Core 0-1 - 5985 MHz, Band Edge Frequency 5925 MHz

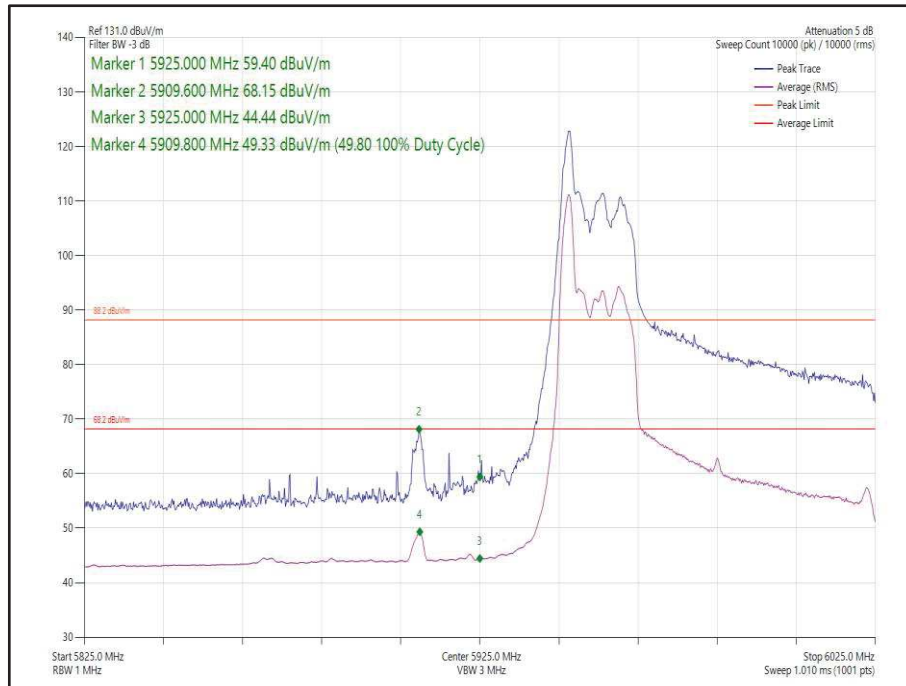


Figure 88 - 802.11ax, HE80, RU26-0, CDD, Core 0-1 - 5985 MHz,
Band Edge Frequency 5925 MHz

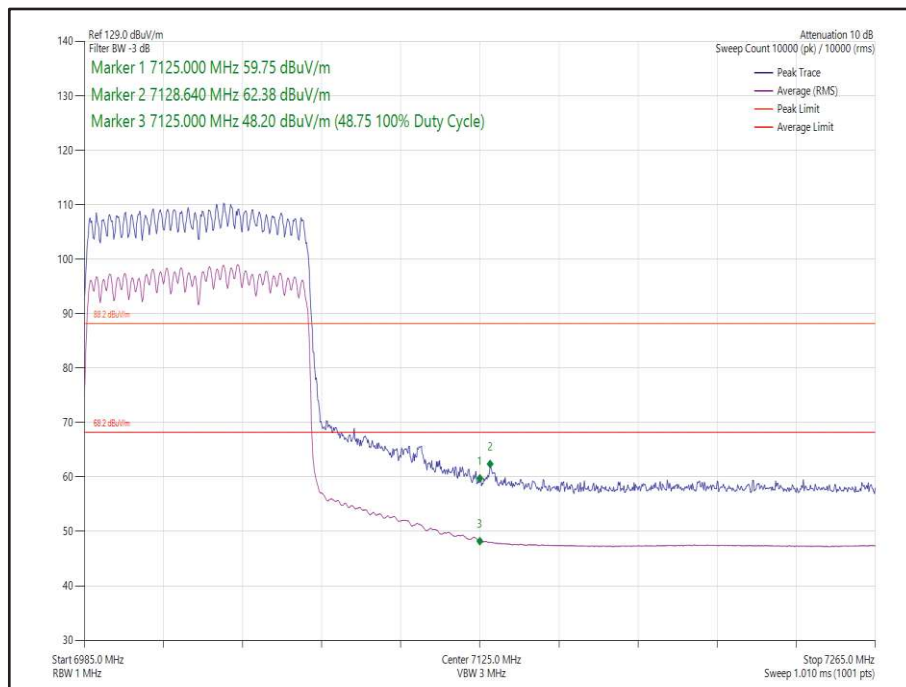


Figure 89 - 802.11ax, HE80, SU, CDD, Core 0-1 - 7025 MHz,
Band Edge Frequency 7125 MHz

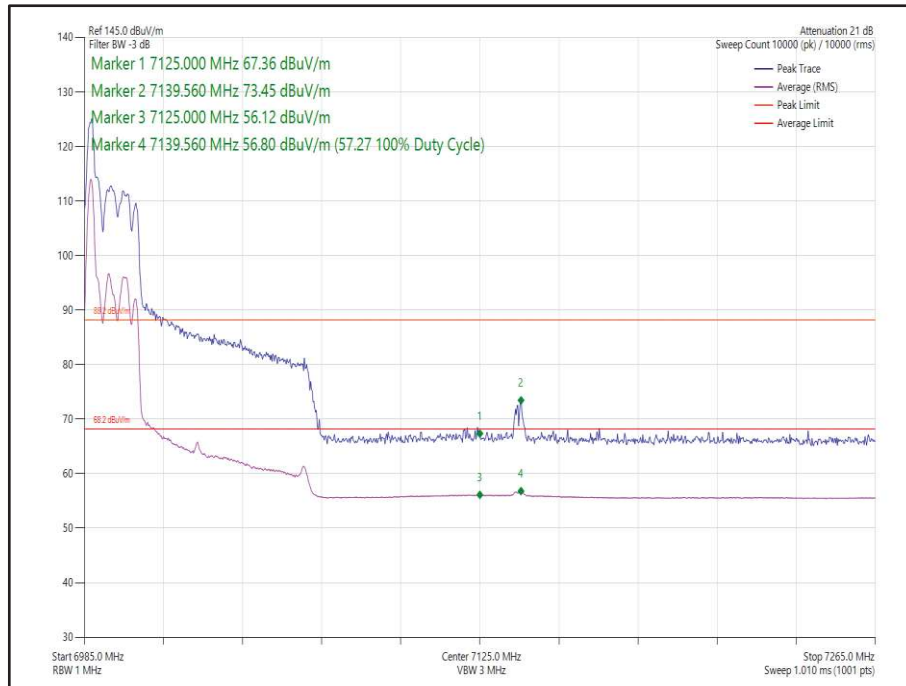


Figure 90 - 802.11ax, HE80, RU26-0, CDD Core 0-1 - 7025 MHz, Band Edge Frequency 7125 MHz



80 MHz Bandwidth - Core 0-1 (SDM)

Mode	Data Rate/MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE80	MCS11x2	SU	-	5985	5925	70.64	57.98
802.11ax HE80	MCS11x2	26	0	5985	5925	69.57	52.07
802.11ax HE80	MCS11x2	SU	-	7025	7125	62.07	49.27
802.11ax HE80	MCS11x2	26	0	7025	7125	72.32	55.75

Table 316 - SDM Authorised Band Edge Results

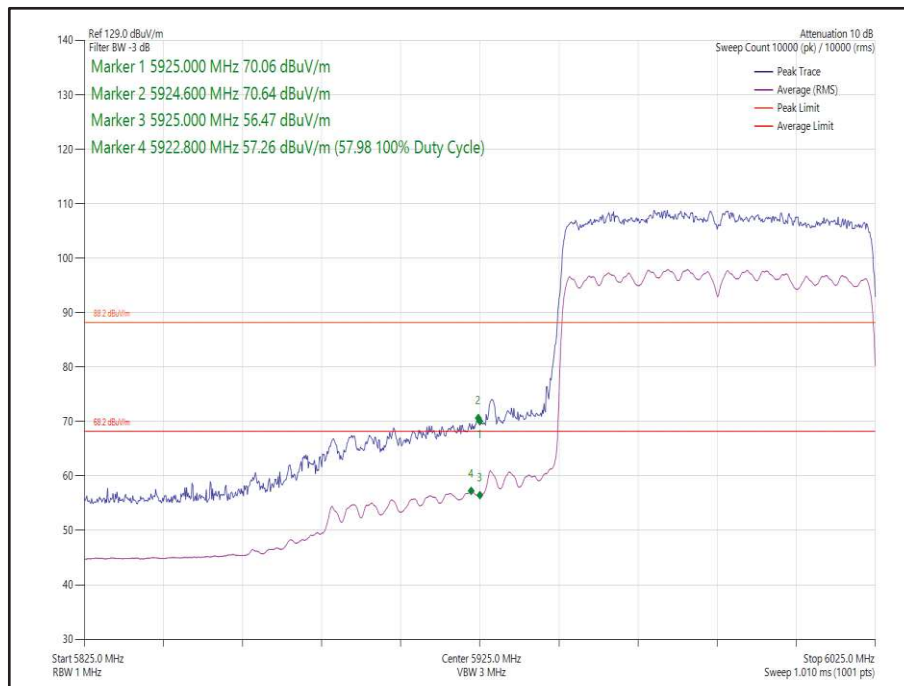
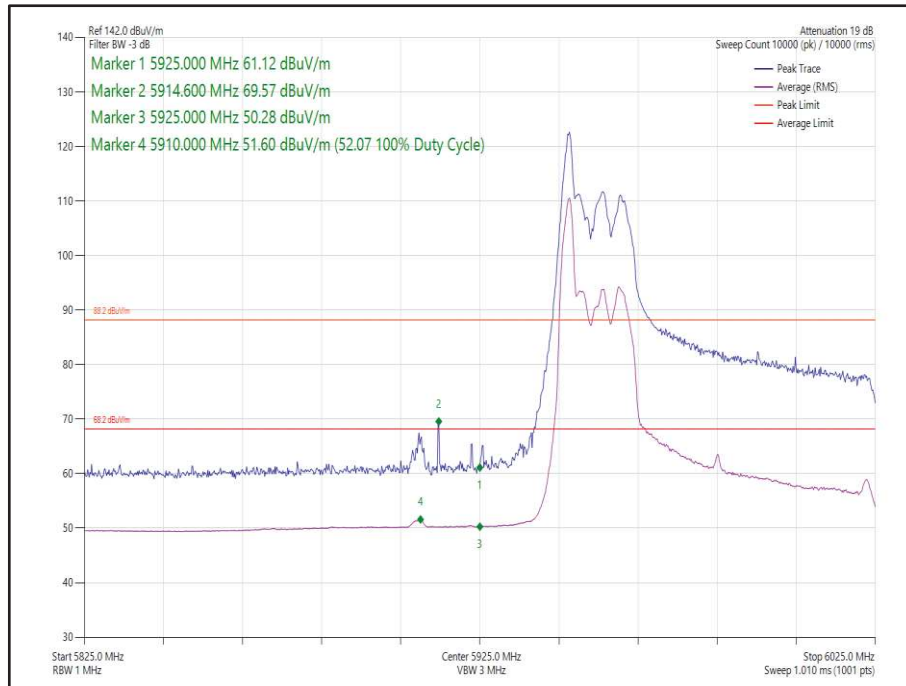
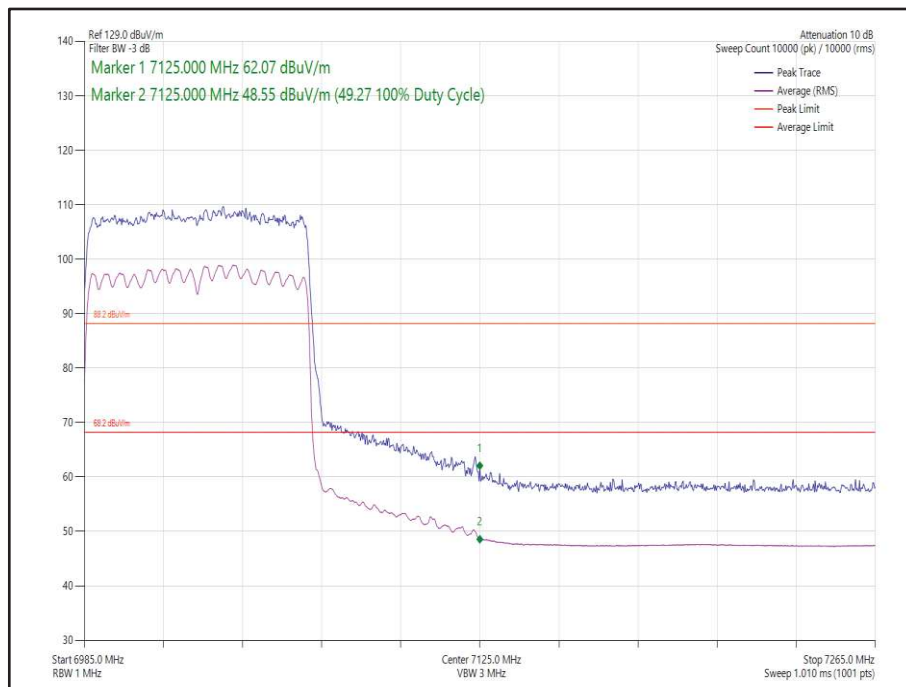


Figure 91 - 802.11ax, HE80, SU, SDM, Core 0-1 - 5985 MHz, Band Edge Frequency 5925 MHz



**Figure 92 - 802.11ax, HE80, RU26-0, SDM, Core 0-1 - 5985 MHz,
Band Edge Frequency 5925 MHz**



**Figure 93 - 802.11ax, HE80, SU, SDM, Core 0-1 - 7025 MHz,
Band Edge Frequency 7125 MHz**

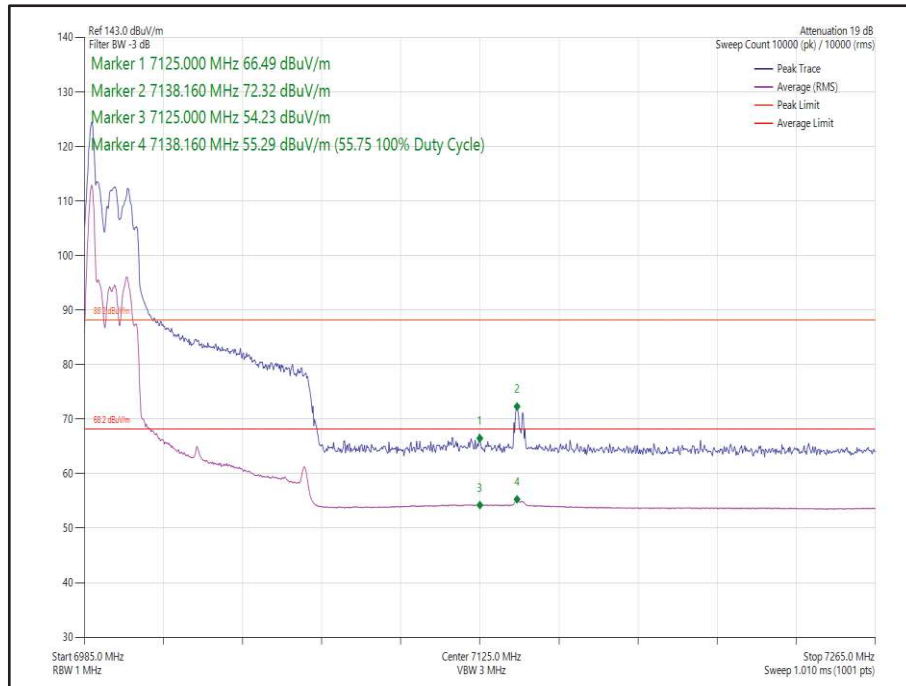


Figure 94 - 802.11ax, HE80, RU26-0, SDM, Core 0-1 - 7025 MHz, Band Edge Frequency 7125 MHz



80 MHz Bandwidth - Core 0-1 (TxBF)

Mode	Data Rate/MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE80	MCS2x1	SU	-	5985	5925	62.72	50.39
802.11ax HE80	MCS11x1	SU	-	7025	7125	58.48	45.76

Table 317 - TxBF Authorised Band Edge Results

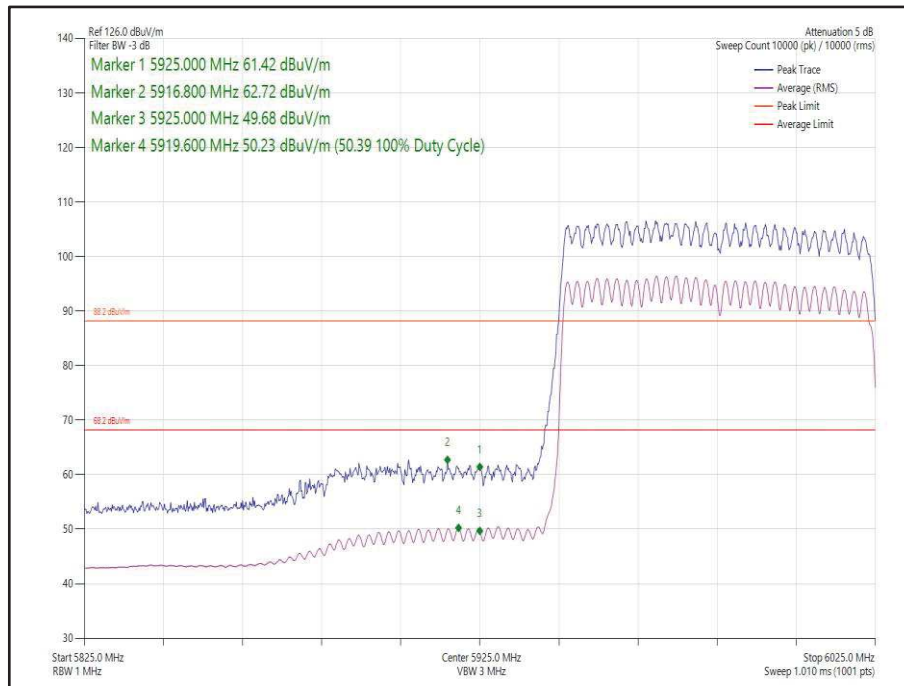
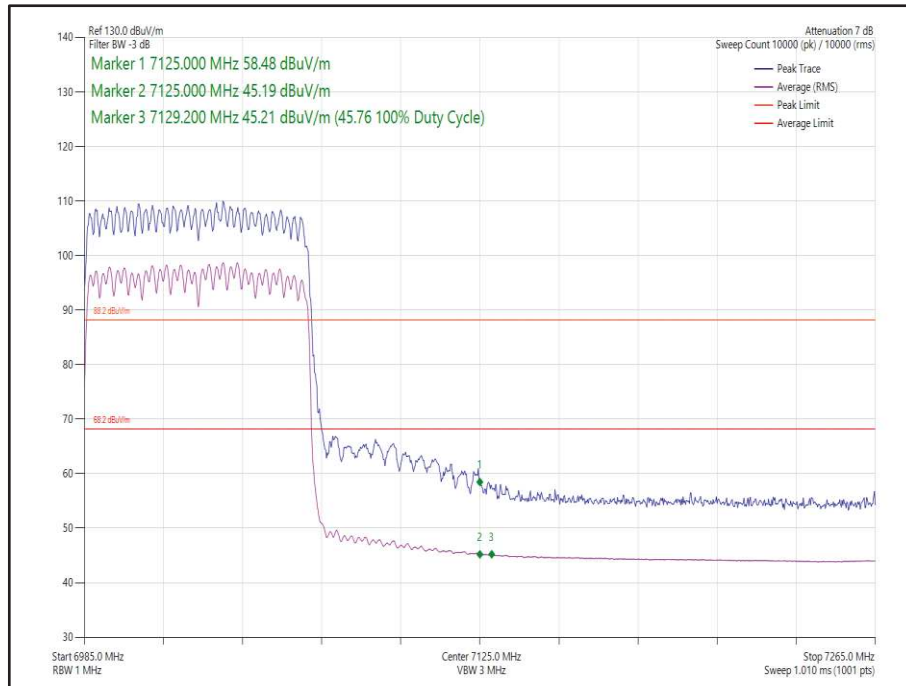


Figure 95 - 802.11ax, HE80, SU, TxBF, Core 0-1 - 5985 MHz, Band Edge Frequency 5925 MHz



**Figure 96 - 802.11ax, HE80, SU, TxBF, Core 0-1 - 7025 MHz,
Band Edge Frequency 7125 MHz**



160 MHz Bandwidth - Core 0 (SISO)

Mode	Data Rate/MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE160	MCS11x1	SU	-	6025	5925	69.46	57.32
802.11ax HE160	MCS11x1	26	0	6025	5925	67.01	50.60
802.11ax HE160	MCS11x1	SU	-	6985	7125	64.28	49.84
802.11ax HE160	MCS11x1	26	36	6985	7125	67.84	52.32

Table 318 - SISO Authorised Band Edge Results

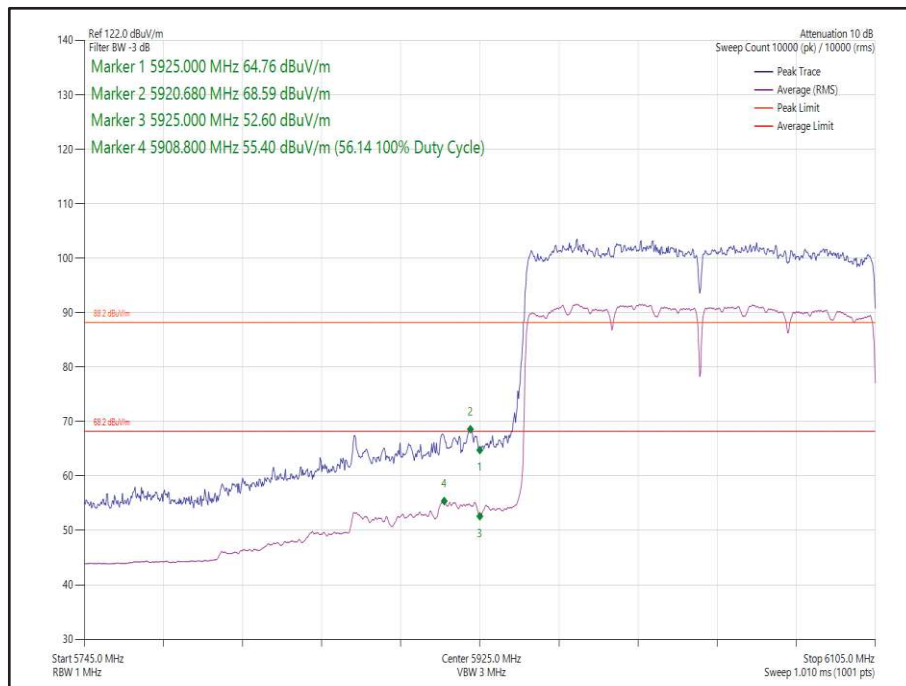


Figure 97 - 802.11ax, HE160, SU, SISO, Core 0 - 6025 MHz, Band Edge Frequency 5925 MHz

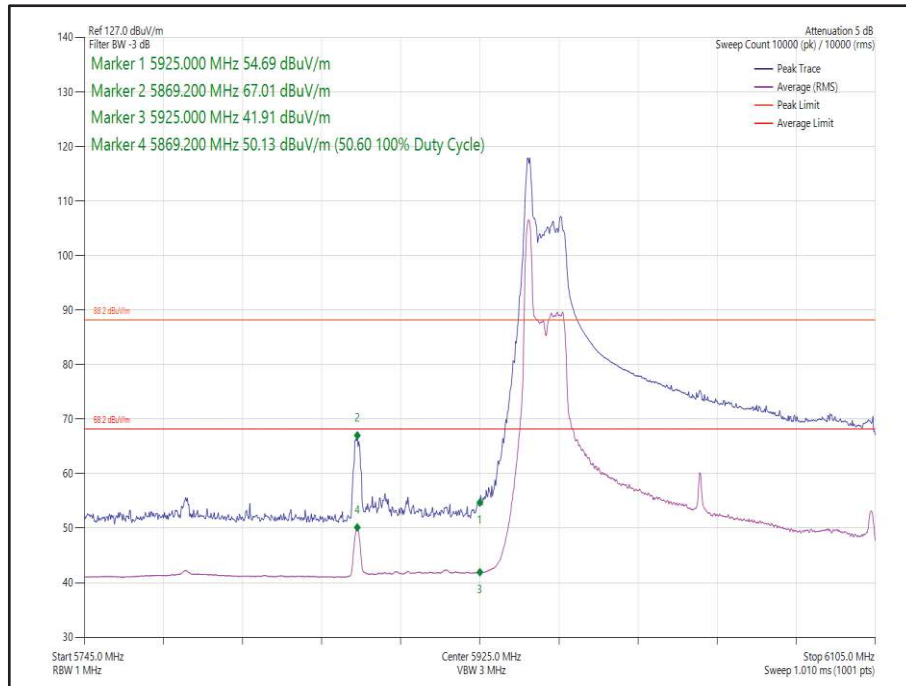


Figure 98 - 802.11ax, HE160, RU26-0, SISO, Core 0 - 6025 MHz,
Band Edge Frequency 5925 MHz

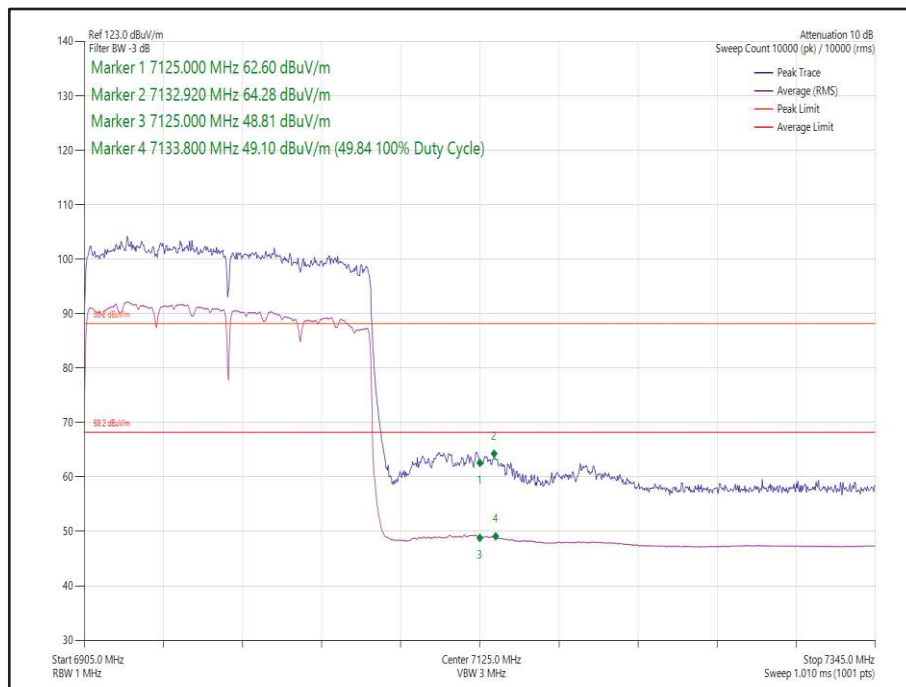
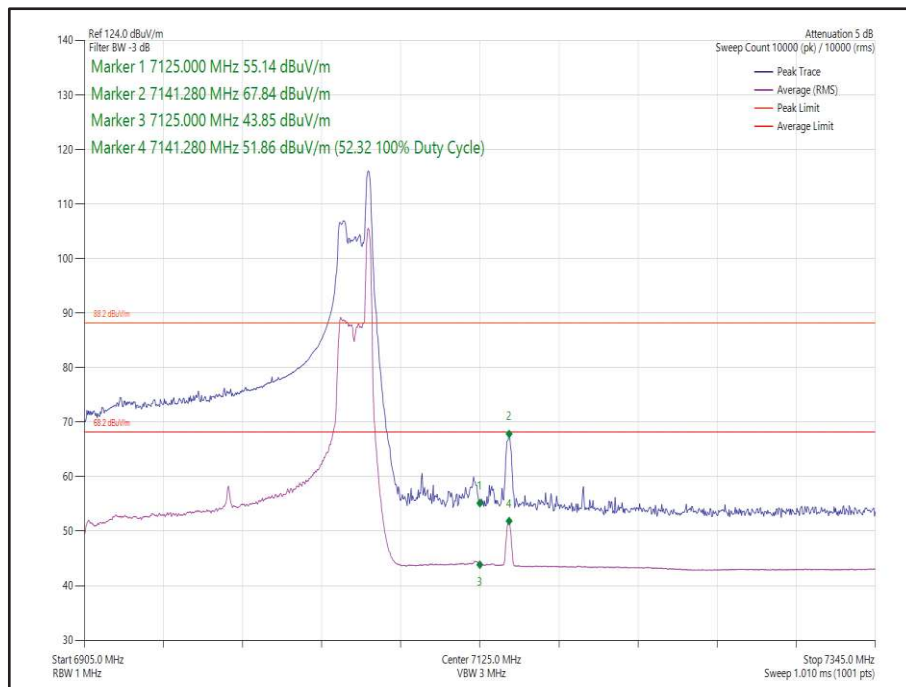


Figure 99 - 802.11ax, HE160, SU, SISO, Core 0 - 6985 MHz,
Band Edge Frequency 7125 MHz



**Figure 100 - 802.11ax, HE160, RU26-36, SISO, Core 0 - 6985 MHz,
Band Edge Frequency 7125 MHz**



160 MHz Bandwidth - Core 1 (SISO)

Mode	Data Rate/MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE160	MCS11x1	SU	-	6025	5925	70.89	57.60
802.11ax HE160	MCS11x1	26	0	6025	5925	68.95	53.54
802.11ax HE160	MCS11x1	SU	-	6985	7125	62.33	49.32
802.11ax HE160	MCS11x1	26	36	6985	7125	62.87	48.50

Table 319 - SISO Authorised Band Edge Results

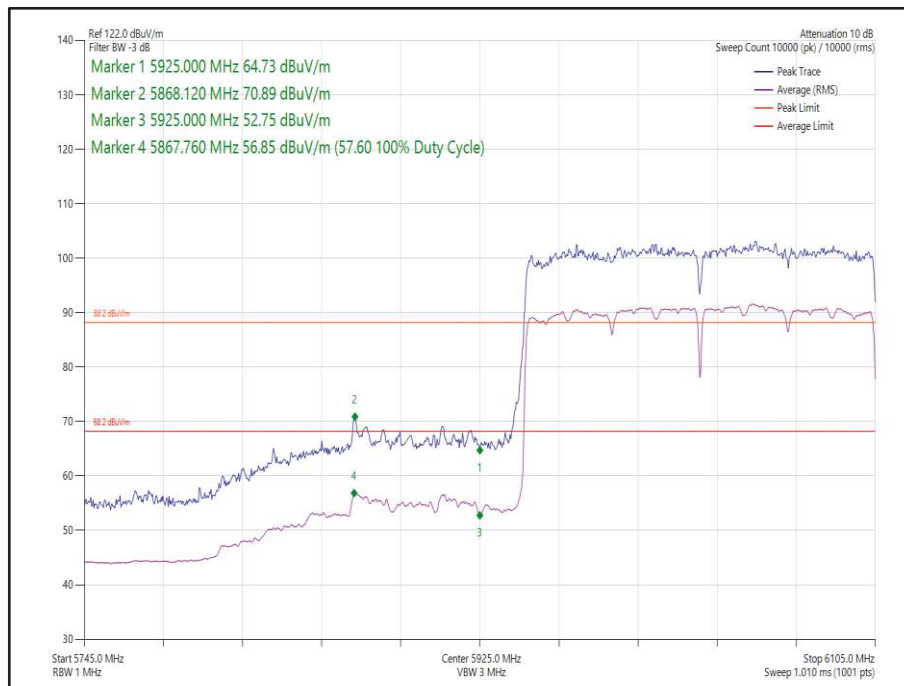
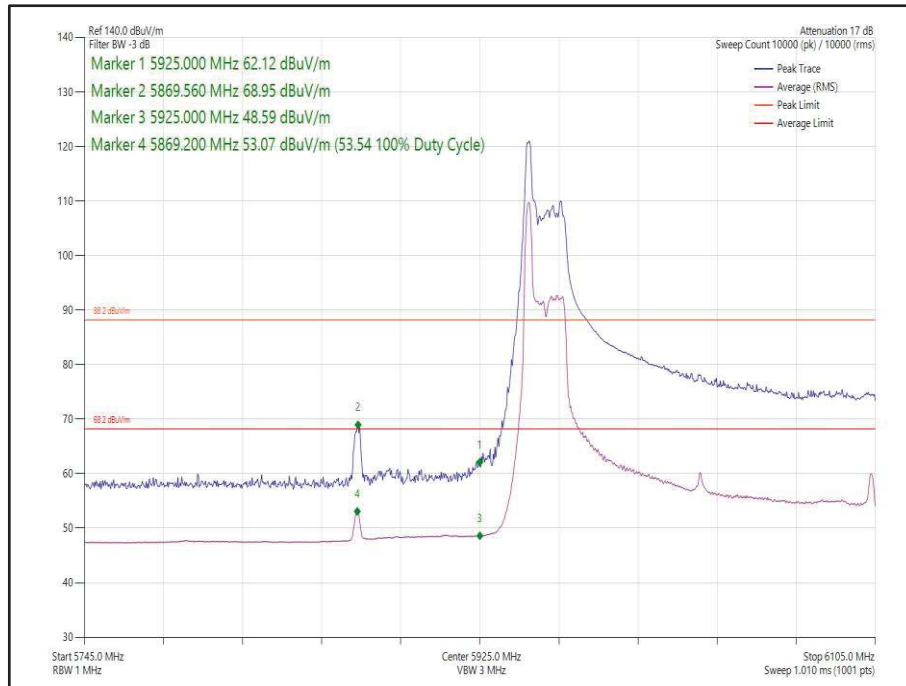
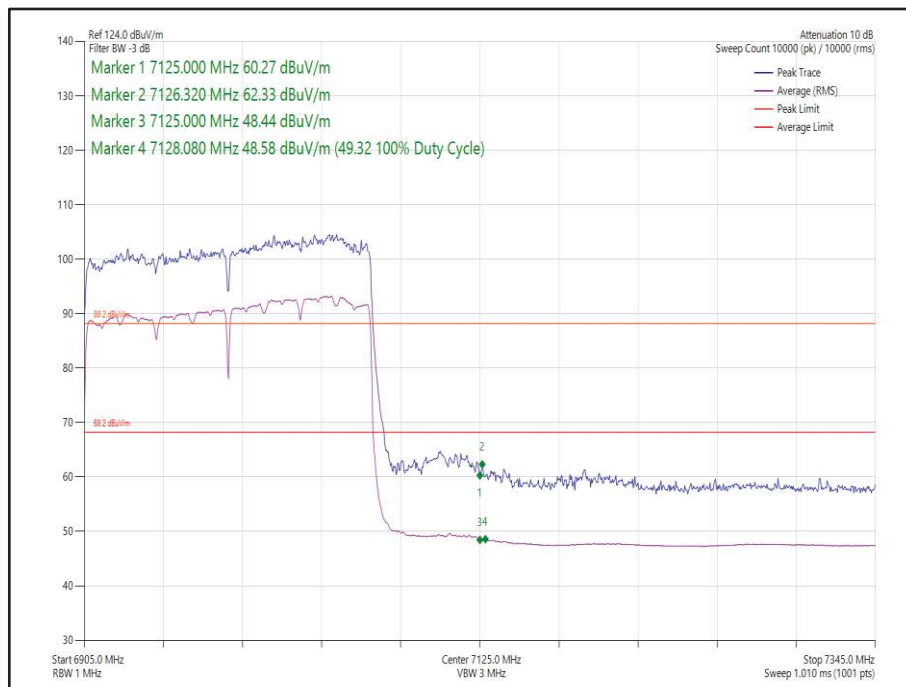


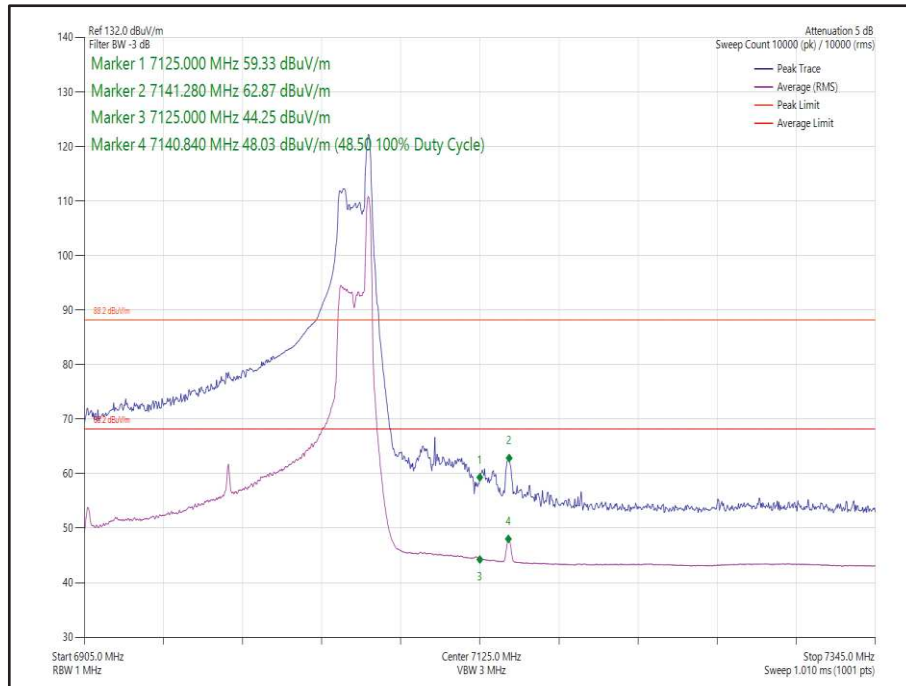
Figure 101 - 802.11ax, HE160, SU, SISO, Core 1 - 6025 MHz, Band Edge Frequency 5925 MHz



**Figure 102 - 802.11ax, HE160, RU26-0, SISO, Core 1 - 6025 MHz,
Band Edge Frequency 5925 MHz**



**Figure 103 - 802.11ax, HE160, SU, SISO, Core 1 - 6985 MHz,
Band Edge Frequency 7125 MHz**



**Figure 104 - 802.11ax, HE160, RU26-36, SISO, Core 1 - 6985 MHz,
Band Edge Frequency 7125 MHz**



160 MHz Bandwidth - Core 0-1 (CDD)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE160	MCS11x1	SU	-	6025	5925	73.06	61.04
802.11ax HE160	MCS11x1	26	0	6025	5925	71.68	54.40
802.11ax HE160	MCS11x1	SU	-	6985	7125	67.59	54.17
802.11ax HE160	MCS11x1	26	0	6985	7125	68.75	57.12

Table 320 - CDD Authorised Band Edge Results

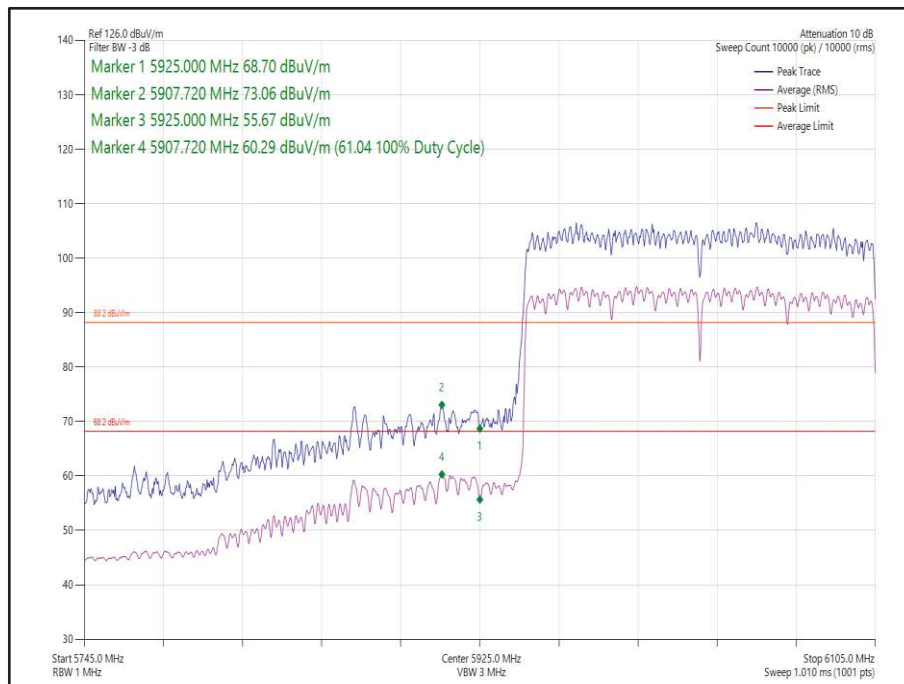
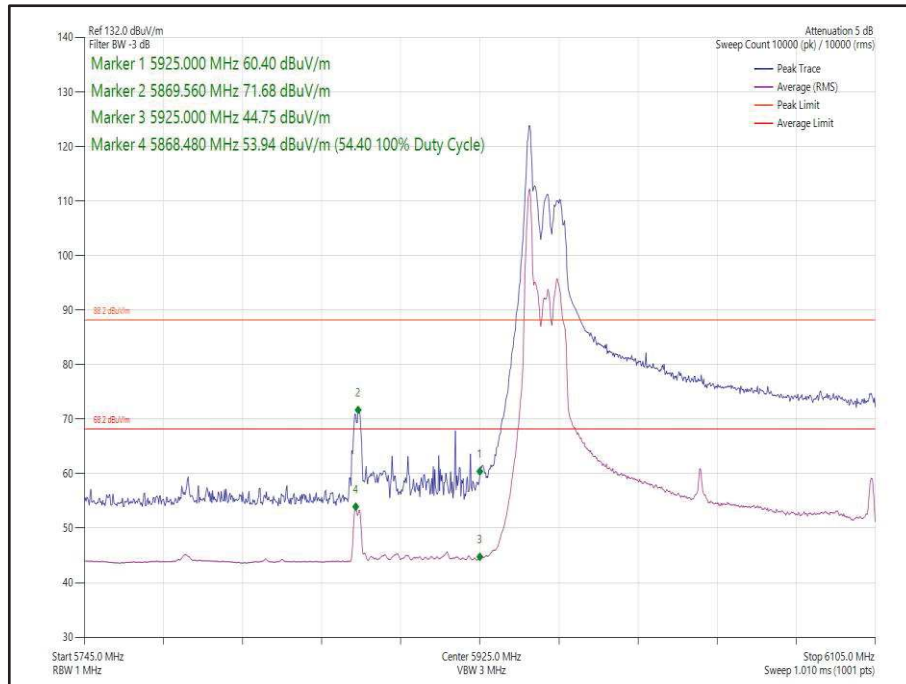
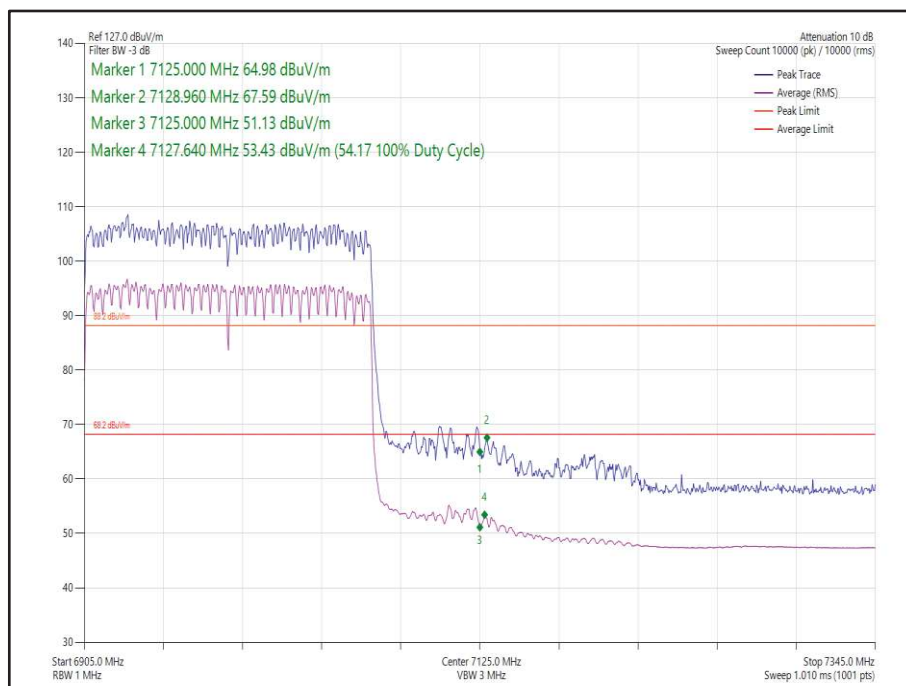


Figure 105 - 802.11ax, HE160, SU, CDD, Core 0-1 - 6025 MHz, Band Edge Frequency 5925 MHz



**Figure 106 - 802.11ax, HE160, RU26-0, CDD, Core 0-1 - 6025 MHz,
Band Edge Frequency 5925 MHz**



**Figure 107 - 802.11ax, HE160, SU, CDD, Core 0-1 - 6985 MHz,
Band Edge Frequency 7125 MHz**

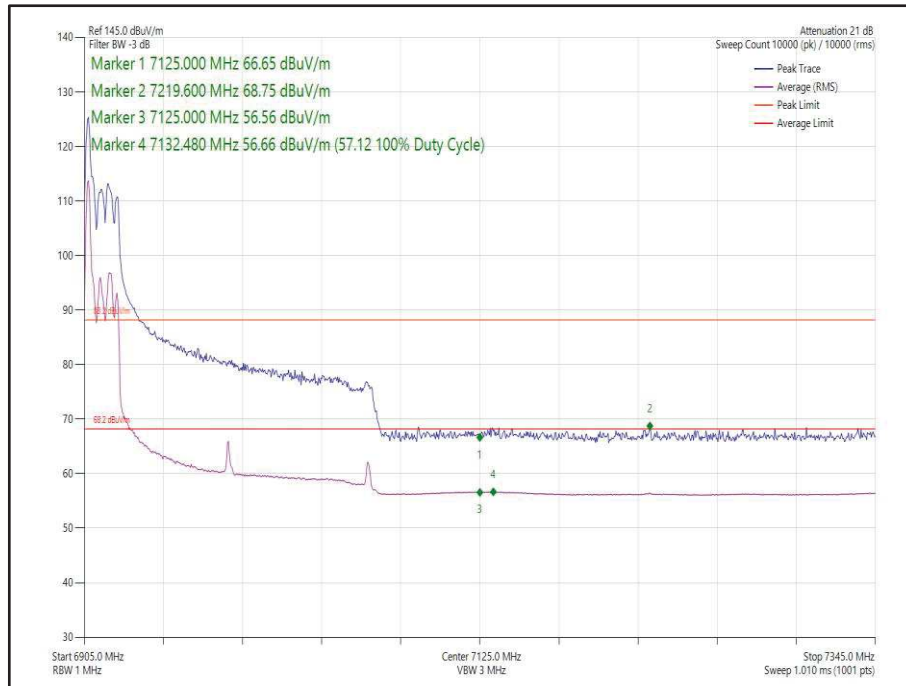


Figure 108 - 802.11ax, HE160, RU26-0, CDD, Core 0-1 - 6985 MHz, Band Edge Frequency 7125 MHz



160 MHz Bandwidth - Core 0-1 (SDM)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Peak Level (dBμV/m)	Average Level (dBμV/m)
802.11ax HE160	MCS11x2	SU	-	6025	5925	72.81	62.50
802.11ax HE160	MCS11x2	26	0	6025	5925	71.71	54.70
802.11ax HE160	MCS11x2	SU	-	6985	7125	66.44	54.37
802.11ax HE160	MCS11x2	26	0	6985	7125	68.48	57.10

Table 321 - SDM Authorised Band Edge Results

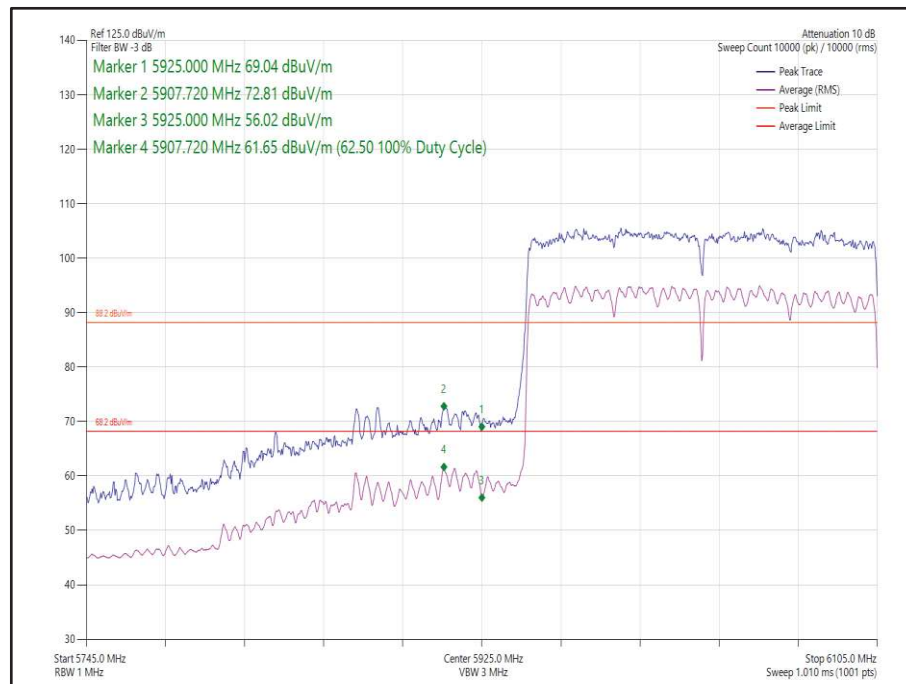


Figure 109 - 802.11ax, HE160, SU, SDM, Core 0-1 - 6025 MHz, Band Edge Frequency 5925 MHz

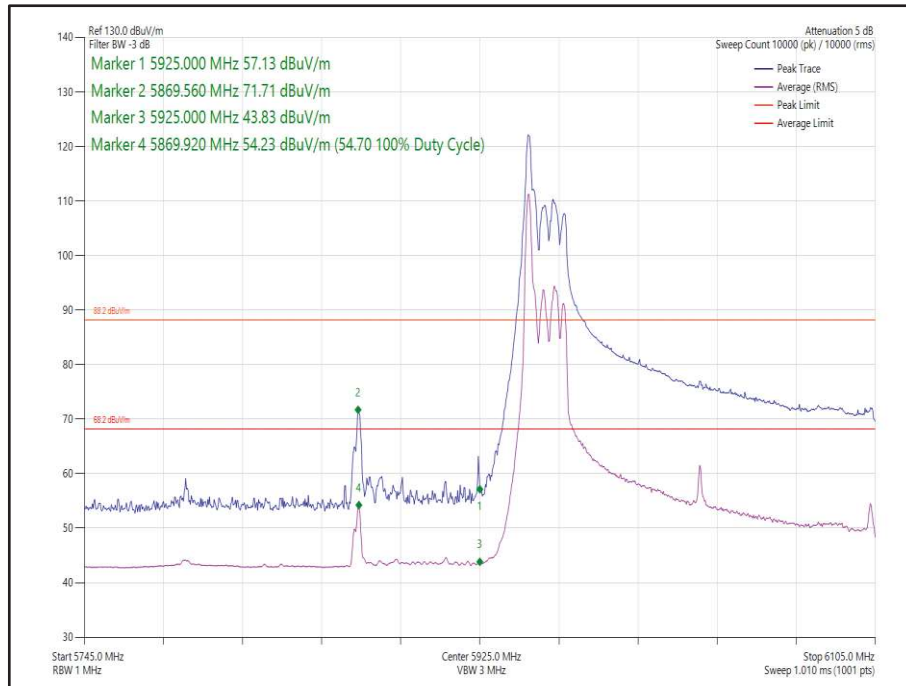


Figure 110 - 802.11ax, HE160, RU26-0, SDM, Core 0-1 - 6025 MHz,
Band Edge Frequency 5925 MHz

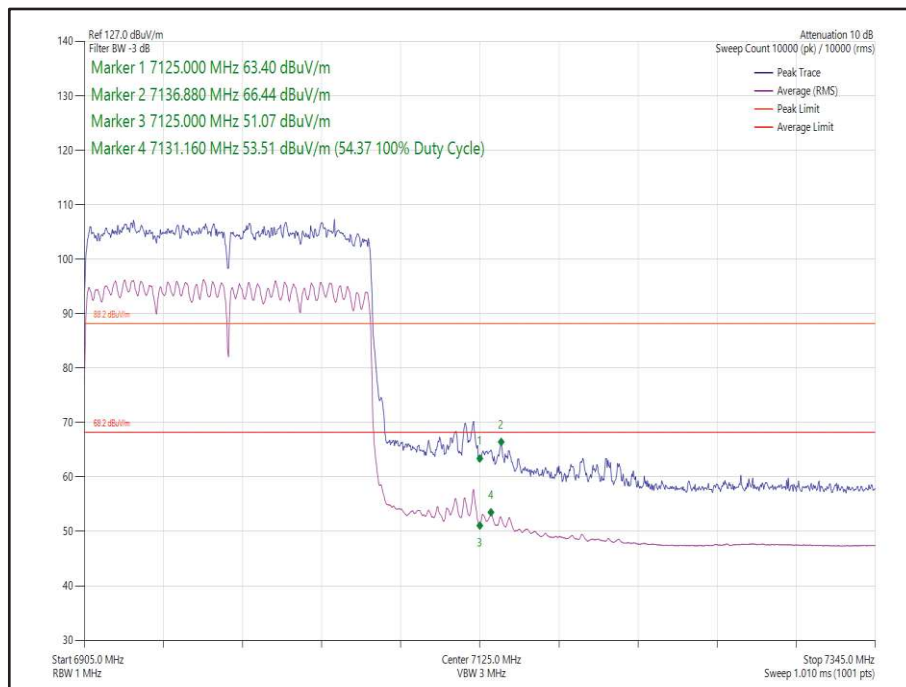
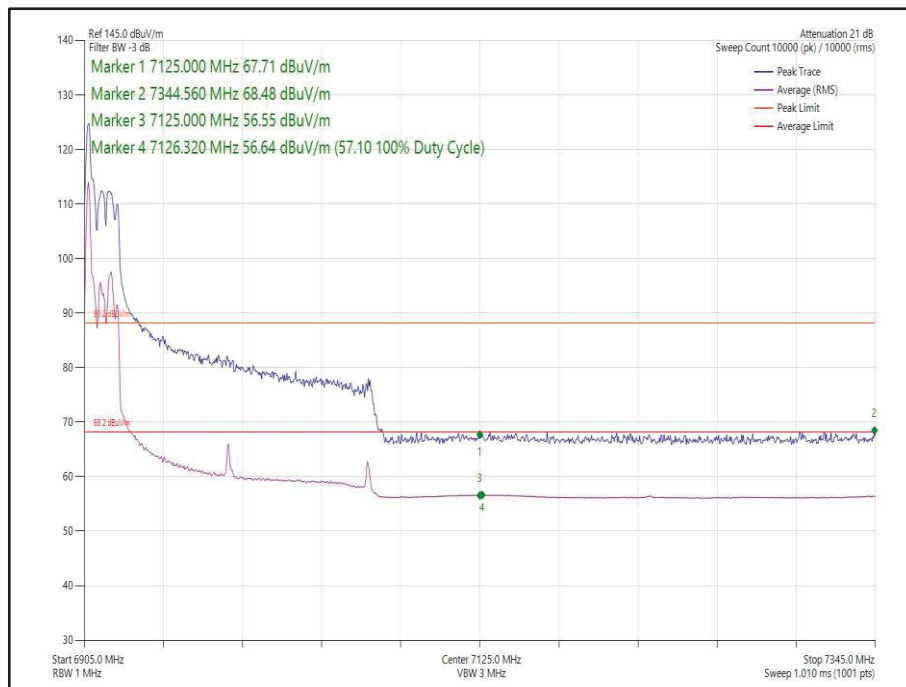


Figure 111 - 802.11ax, HE160, SU, SDM, Core 0-1 - 6985 MHz,
Band Edge Frequency 7125 MHz



**Figure 112 - 802.11ax, HE160, RU26-0, SDM, Core 0-1 - 6985 MHz,
Band Edge Frequency 7125 MHz**

FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

For transmitters operating within the 5.925–7.125 GHz band: Any emissions outside of the 5.925–7.125 GHz band must not exceed an e.i.r.p. of -27 dBm.

ISED RSS-248, Limit Clause 4.7.2(a)

Any emissions outside of the 5925-7125 MHz band shall not exceed -27 dBm/MHz e.i.r.p



2.4.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 15.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Emissions Software	TUV SUD	EmX V3.1.10	5125	-	Software
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	24-Feb-2023
1500W (300V 12A) AC Power Supply	iTech	IT7324	5955	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 15	5963	36	28-Apr-2025
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5996	12	06-Jun-2023
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	06-Jun-2023
Cable (SMA to SMA 6.5m)	Junkosha	MWX221-06500AMSAMS/B	6014	12	07-Jun-2023
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6140	12	21-Jun-2023
Digital Multimeter	Fluke	115	6147	12	16-Jun-2023
Humidity & Temperature meter	R.S Components	1364	6149	12	17-Jun-2023
SAC Switch Unit	TUV SUD	TUV_SSU_001	6191	12	12-Dec-2023

Table 322

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment



2.5 Unwanted Emissions within the 5925-7125 MHz band

2.5.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (b)
ISED RSS-248, Clause 4.7
ISED RSS-GEN, Clause 6.13

2.5.2 Equipment Under Test and Modification State

A2786, S/N: L217XQ106H - Modification State 0
A2786, S/N: QX6LNQJCFQ - Modification State 0

2.5.3 Date of Test

03-February-2023 to 16-March-2023

2.5.4 Test Method

This test was performed in accordance with KDB 987594 D02, clause J.

2.5.5 Environmental Conditions

Ambient Temperature	21.2 – 23.1 °C
Relative Humidity	27.1 - 33.1 %



2.5.6 Test Results

6 GHz WLAN

SISO Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11a	7.53	6660.800
802.11ax HE20 SU	7.36	7084.100
802.11ax HE40 SU	10.10	6945.000
802.11ax HE80 SU	9.43	6416.200
802.11ax HE160 SU	7.64	6906.000
802.11ax HE20 RU106	9.25	6494.300
802.11ax HE20 RU26	8.85	6822.500
802.11ax HE20 RU52	9.06	6829.900

Table 323 - Unwanted Emissions Within the RLAN Band Summary Results - SISO

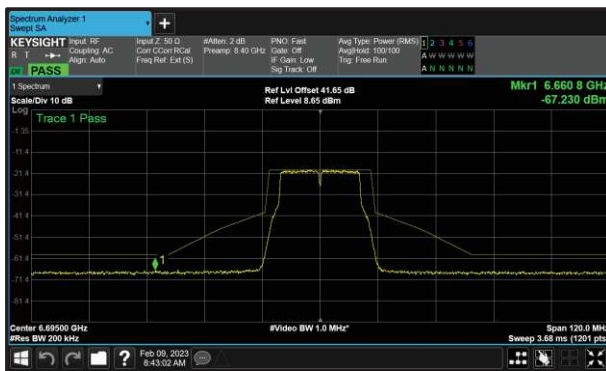


Figure 113 – A (Core 0) 802.11a 6695 MHz (CH149)

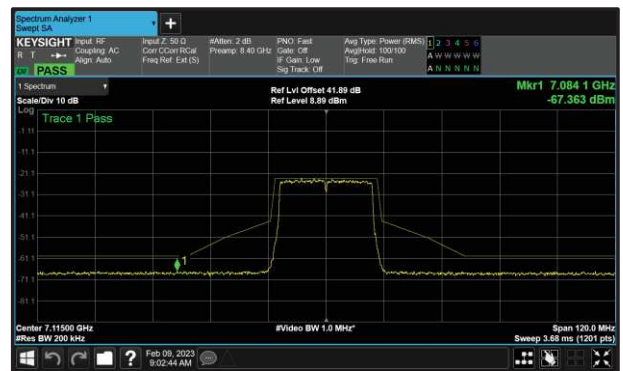


Figure 114 – B (Core 1) 802.11ax HE20 SU 7115 MHz (CH233)



Figure 115 – A (Core 0) 802.11ax HE40 SU 6885 MHz (CH187)



Figure 116 – A (Core 0) 802.11ax HE80 SU 6545 MHz (CH119)

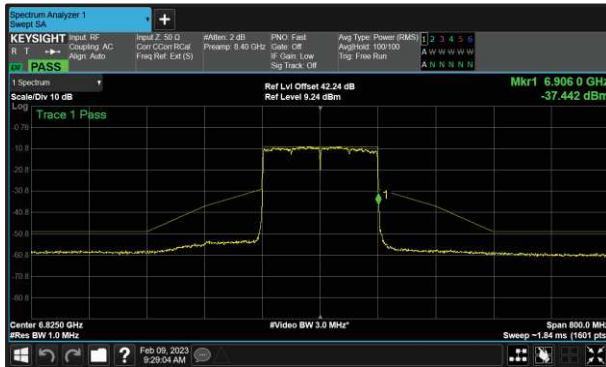


Figure 117 – A (Core 0) 802.11ax HE160
SU 6825 MHz (CH175)



Figure 118 – A (Core 0) 802.11ax HE20
RU106 6435 MHz (CH97)



Figure 119 – A (Core 0) 802.11ax HE20
RU26 6855 MHz (CH181)



Figure 120 – A (Core 0) 802.11ax HE20
RU52 6875 MHz (CH185)



MIMO CDD Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 SU	3.70	7033.900
802.11ax HE40 SU	0.69	6802.800
802.11ax HE80 SU	0.58	6502.600
802.11ax HE160 SU	1.68	6430.000
802.11ax HE20 RU52	3.78	7135.900
802.11ax HE20 RU106	3.97	6944.100

Table 324 - Unwanted Emissions Within the RLAN Band Summary Results – MIMO CDD

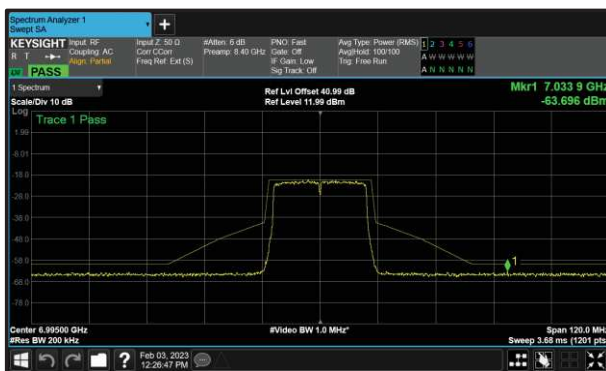


Figure 121 – A (Core 0) 802.11ax HE20 SU 6995 MHz (CH209)

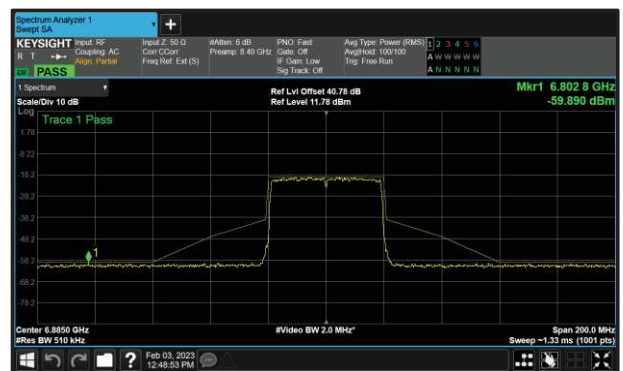


Figure 122 – B (Core 1) 802.11ax HE40 SU 6885 MHz (CH187)



Figure 123 – A (Core 0) 802.11ax HE80 SU 6625 MHz (CH135)



Figure 124 – A (Core 0) 802.11ax HE160 SU 6825 MHz (CH175)

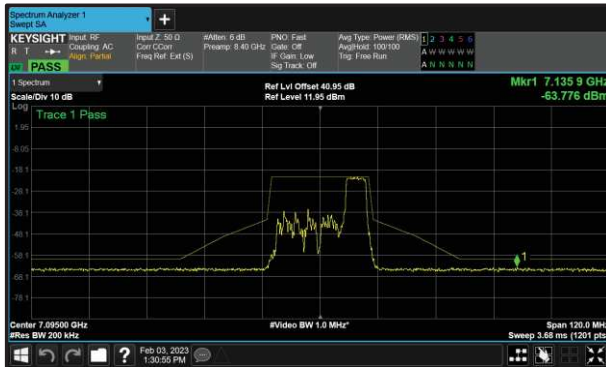


Figure 125 – A (Core 0) 802.11ax HE20
RU52 7095 MHz (CH229)



Figure 126 – A (Core 0) 802.11ax HE20
RU106 6995 MHz (CH209)



SDM Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 SU	3.97	7065.900
802.11ax HE40 SU	2.46	6363.600
802.11ax HE80 SU	4.63	6444.400
802.11ax HE160 SU	3.93	6572.500
802.11ax HE20 RU26	4.70	7143.000
802.11ax HE20 RU52	4.17	6390.100
802.11ax HE20 RU106	4.25	6422.700

Table 325 - Unwanted Emissions Within the RLAN Band Summary Results – MIMO SDM

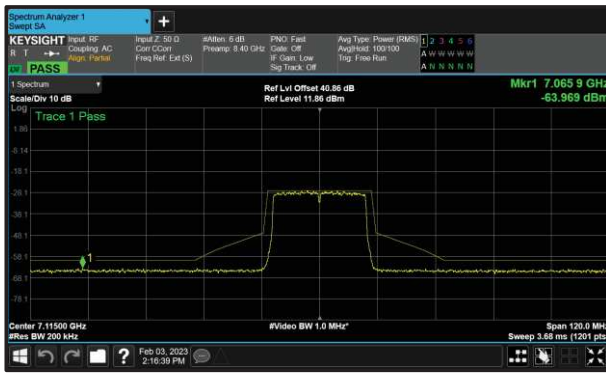


Figure 127 – B (Core 1) 802.11ax HE20 SU 7155 MHz (CH233)

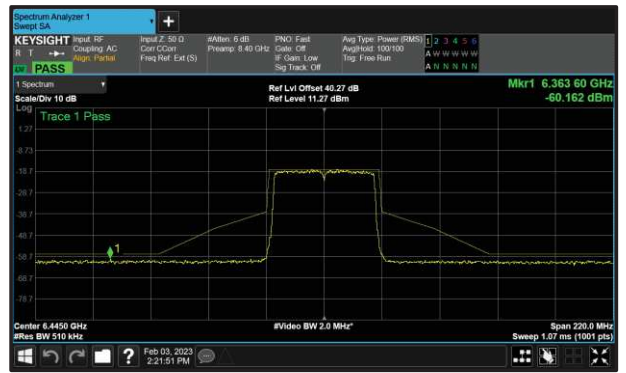


Figure 128 – B (Core 1) 802.11ax HE40 SU 6445 MHz (CH99)



Figure 129 – B (Core 1) 802.11ax HE80 SU 6625 MHz (CH135)



Figure 130 – A (Core 0) 802.11ax HE160 SU 6825 MHz (CH175)

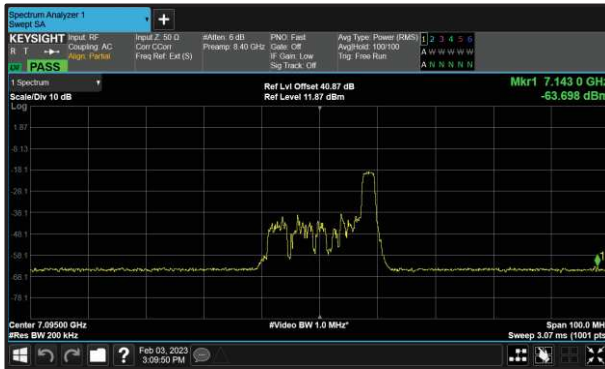


Figure 131 – B (Core 1) 802.11ax HE20
RU26 7095 MHz (CH229)



Figure 132 – A (Core 0) 802.11ax HE20
RU52 6435 MHz (CH97)



Figure 133 – A (Core 0) 802.11ax HE20
RU106 6475 MHz (CH105)



TxBF Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE40 SU	0.69	6936.360
802.11ax HE80 SU	0.52	6506.140

Table 326 - Unwanted Emissions Within the RLAN Band Summary Results – MIMO TxBF



Figure 134 - C (Core 0) 802.11ax HE40 SU 7055 MHz (CH211)



Figure 135 – B (Core 1) 802.11ax HE80 SU 6625 MHz (CH135)



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11a	Duty Cycle (%):	-
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain Id(s):	0 1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955	-	12.45	-	-
6175	-	11.78	-	-
6415	-	12.32	-	-
6435	8.63	-	-	-
6475	8.45	-	-	-
6515	8.62	-	-	-
6535	8.37	-	-	-
6695	7.53	-	-	-
6855	9.04	-	-	-
6875	9.82	9.73	-	-
6895	-	12.35	-	-
6995	-	12.03	-	-
7115	-	12.23	-	-

Table 327 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain Id(s):	0 1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955	-	12.12	-	-
6175	-	10.24	-	-
6415	-	11.68	-	-
6435	8.82	-	-	-
6475	8.53	-	-	-
6515	8.77	-	-	-
6535	8.44	-	-	-
6695	7.82	-	-	-
6855	8.90	-	-	-
6875	9.65	9.36	-	-
6895	-	11.34	-	-
6995	-	11.78	-	-
7115	-	7.36	-	-

Table 328 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain Id(s):	0 1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5965	-	10.58	-	-
6165	-	11.56	-	-
6405	-	11.48	-	-
6445	10.40	-	-	-
6485	10.42	-	-	-
6525	10.60	-	-	-
6565	10.51	-	-	-
6685	10.40	-	-	-
6845	10.61	-	-	-
6885	11.19	11.25	-	-
6925	-	12.13	-	-
7005	-	12.18	-	-
7085	-	11.60	-	-

Table 329 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain Id(s):	0 1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	-	10.35	-	-
6145	-	10.71	-	-
6385	-	11.44	-	-
6465	9.82	-	-	-
6545	9.43	-	-	-
6625	9.89	-	-	-
6705	9.79	-	-	-
6785	9.80	-	-	-
6865	10.92	10.95	-	-
6945	-	11.47	-	-
7025	-	11.45	-	-

Table 330 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE160 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain Id(s):	0 1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6025	-	9.42	-	-
6185	-	9.59	-	-
6345	-	10.06	-	-
6505	7.90	-	-	-
6665	9.46	-	-	-
6825	9.96	8.70	-	-
6985	-	11.17	-	-

Table 331 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU26	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain Id(s):	0 1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU26.0)	-	11.82	-	-
6175 (RU26.0)	-	10.50	-	-
6415 (RU26.8)	-	11.61	-	-
6435 (RU26.0)	9.35	-	-	-
6475 (RU26.0)	9.16	-	-	-
6515 (RU26.8)	9.29	-	-	-
6535 (RU26.0)	9.95	-	-	-
6695 (RU26.0)	9.71	-	-	-
6855 (RU26.8)	8.85	-	-	-
6875 (RU26.3)	9.08	-	-	-
6875 (RU26.5)	-	9.57	-	-
6895 (RU26.0)	-	11.54	-	-
6995 (RU26.0)	-	11.79	-	-
7095 (RU26.8)	-	11.93	-	-

Table 332 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU52	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain Id(s):	0 1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU52.37)	-	12.24	-	-
6175 (RU52.37)	-	10.59	-	-
6415 (RU52.40)	-	11.52	-	-
6435 (RU52.37)	9.45	-	-	-
6475 (RU52.37)	9.16	-	-	-
6515 (RU52.40)	9.47	-	-	-
6535 (RU52.37)	9.83	-	-	-
6695 (RU52.37)	9.99	-	-	-
6855 (RU52.40)	10.02	-	-	-
6875 (RU52.38)	9.06	-	-	-
6875 (RU52.39)	-	9.86	-	-
6895 (RU52.37)	-	12.08	-	-
6995 (RU52.37)	-	11.65	-	-
7095 (RU52.40)	-	12.46	-	-

Table 333 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU106	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0) B (Core 1)	Active Chain Id(s):	0 1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU106.53)	-	11.99	-	-
6175 (RU106.53)	-	11.20	-	-
6415 (RU106.54)	-	11.37	-	-
6435 (RU106.53)	9.25	-	-	-
6475 (RU106.53)	9.53	-	-	-
6515 (RU106.54)	9.49	-	-	-
6535 (RU106.53)	9.99	-	-	-
6695 (RU106.53)	10.03	-	-	-
6855 (RU106.54)	9.55	-	-	-
6875 (RU106.53)	9.27	-	-	-
6875 (RU106.54)	-	9.79	-	-
6895 (RU106.53)	-	11.23	-	-
6995 (RU106.53)	-	11.48	-	-
7095 (RU106.54)	-	11.79	-	-

Table 334 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955	4.71	4.94	-	-
6175	4.96	5.00	-	-
6415	4.21	4.36	-	-
6435	4.30	4.69	-	-
6475	4.64	4.84	-	-
6515	4.64	4.69	-	-
6535	4.82	4.78	-	-
6695	4.58	5.03	-	-
6855	4.40	4.51	-	-
6875	4.42	4.37	-	-
6895	4.14	4.13	-	-
6995	3.70	4.08	-	-
7115	3.82	4.10	-	-

Table 335 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5965	3.65	3.19	-	-
6165	3.80	2.98	-	-
6405	2.79	3.16	-	-
6445	3.06	2.49	-	-
6485	2.32	2.62	-	-
6525	3.06	2.76	-	-
6565	2.30	2.86	-	-
6685	1.75	1.66	-	-
6845	2.05	1.21	-	-
6885	1.70	0.69	-	-
6925	2.52	1.41	-	-
7005	2.59	1.29	-	-
7085	2.80	1.19	-	-

Table 336 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	3.77	3.61	-	-
6145	2.96	3.50	-	-
6385	3.79	4.29	-	-
6465	2.02	2.93	-	-
6545	2.05	3.00	-	-
6625	0.58	1.19	-	-
6705	2.49	3.16	-	-
6785	2.14	2.37	-	-
6865	2.31	1.06	-	-
6945	3.53	3.54	-	-
7025	3.61	3.92	-	-

Table 337 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE160 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6025	3.64	3.66	-	-
6185	2.71	2.67	-	-
6345	3.33	3.63	-	-
6505	2.45	2.51	-	-
6665	1.86	2.14	-	-
6825	1.68	1.95	-	-
6985	3.09	3.57	-	-

Table 338 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU52	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6275 (RU52.37)	4.71	4.88	-	-
6335 (RU52.37)	4.63	4.70	-	-
6415 (RU52.40)	4.26	4.62	-	-
6895 (RU52.37)	4.15	4.07	-	-
6995 (RU52.37)	4.09	4.23	-	-
7095 (RU52.40)	3.78	4.09	-	-

Table 339 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU106	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU106.53)	4.59	4.93	-	-
6175 (RU106.53)	5.04	5.31	-	-
6415 (RU106.54)	4.35	4.71	-	-
6435 (RU106.53)	4.27	4.41	-	-
6475 (RU106.53)	4.39	4.76	-	-
6515 (RU106.54)	4.75	4.77	-	-
6535 (RU106.53)	4.72	4.75	-	-
6695 (RU106.53)	4.53	4.94	-	-
6855 (RU106.54)	4.47	4.37	-	-
6875 (RU106.53)	4.62	4.51	-	-
6875 (RU106.54)	4.50	4.33	-	-
6895 (RU106.53)	4.14	4.51	-	-
6995 (RU106.53)	3.97	4.04	-	-
7095 (RU106.54)	4.11	4.03	-	-

Table 340 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955	5.78	6.25	-	-
6175	6.08	6.74	-	-
6415	5.32	6.83	-	-
6435	4.28	5.17	-	-
6475	4.66	5.14	-	-
6515	4.64	5.16	-	-
6535	4.81	5.07	-	-
6695	4.62	5.53	-	-
6855	5.38	4.91	-	-
6875	5.19	4.94	-	-
6895	5.48	5.63	-	-
6995	6.58	6.16	-	-
7115	4.06	3.97	-	-

Table 341 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5965	7.33	7.29	-	-
6165	6.00	6.56	-	-
6405	6.96	7.27	-	-
6445	2.60	2.46	-	-
6485	2.51	2.63	-	-
6525	5.86	6.40	-	-
6565	6.15	6.01	-	-
6685	5.45	5.63	-	-
6845	5.37	5.58	-	-
6885	5.31	5.56	-	-
6925	6.81	6.60	-	-
7005	7.12	6.97	-	-
7085	7.05	7.09	-	-

Table 342 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	6.27	6.65	-	-
6145	5.56	5.83	-	-
6385	6.58	6.87	-	-
6465	4.99	5.25	-	-
6545	4.87	5.24	-	-
6625	5.14	4.63	-	-
6705	5.10	5.21	-	-
6785	4.95	5.06	-	-
6865	4.67	4.97	-	-
6945	6.25	6.69	-	-
7025	6.25	6.49	-	-

Table 343 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE160 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6025	6.17	6.68	-	-
6185	5.05	5.35	-	-
6345	6.05	6.24	-	-
6505	4.83	4.82	-	-
6665	4.72	5.10	-	-
6825	3.93	4.22	-	-
6985	5.42	6.64	-	-

Table 344 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU26	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6275 (RU26.0)	5.32	6.63	-	-
6335 (RU26.0)	5.03	6.38	-	-
6415 (RU26.8)	4.92	6.25	-	-
6895 (RU26.0)	5.48	6.12	-	-
6995 (RU26.0)	5.45	5.15	-	-
7095 (RU26.8)	5.42	4.70	-	-

Table 345 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU52	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU52.37)	5.58	6.73	-	-
6175 (RU52.37)	5.02	5.65	-	-
6415 (RU52.40)	5.26	6.48	-	-
6435 (RU52.37)	4.17	4.80	-	-
6475 (RU52.37)	4.67	4.80	-	-
6515 (RU52.40)	4.62	5.17	-	-
6535 (RU52.37)	4.73	5.07	-	-
6695 (RU52.37)	4.72	4.63	-	-
6855 (RU52.40)	4.64	4.61	-	-
6875 (RU52.38)	4.30	4.33	-	-
6875 (RU52.39)	4.38	4.81	-	-
6895 (RU52.37)	5.55	5.69	-	-
6995 (RU52.37)	5.90	5.11	-	-
7095 (RU52.40)	5.17	4.99	-	-

Table 346 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE20 RU106	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x2	DCCF (dB):	-
Antenna Configuration:	MIMO SDM	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5955 (RU106.53)	5.44	6.23	-	-
6175 (RU106.53)	5.34	5.85	-	-
6415 (RU106.54)	5.05	6.62	-	-
6435 (RU106.53)	4.36	5.00	-	-
6475 (RU106.53)	4.25	4.94	-	-
6515 (RU106.54)	4.52	4.95	-	-
6535 (RU106.53)	4.85	5.37	-	-
6695 (RU106.53)	4.90	5.22	-	-
6855 (RU106.54)	4.58	4.49	-	-
6875 (RU106.53)	4.35	4.74	-	-
6875 (RU106.54)	4.48	4.69	-	-
6895 (RU106.53)	5.76	5.72	-	-
6995 (RU106.53)	6.44	5.63	-	-
7095 (RU106.54)	5.63	5.49	-	-

Table 347 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE40 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	C+D (Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
6285	-	-	1.06	1.60
6325	-	-	2.00	1.94
6405	-	-	1.87	1.37
6925	-	-	1.30	0.53
7005	-	-	0.69	0.75
7085	-	-	2.12	1.30

Table 348 - Unwanted Emissions Within the Band Results



Test Configuration			
Frequency Range:	5.925-7.125 GHz	Band:	U-NII-5, U-NII-6, U-NII-7, U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 clause j

DUT Configuration			
Mode:	802.11ax HE80 SU	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	TxBF	Peak Antenna Gain (dBi):	-
Active Port(s):	C+D(Core 0 + Core 1)	Active Chain Id(s):	0+1

Test Frequency (MHz)	Unwanted Emissions Within the RLAN Band Margin (dB)			
	A	B	C	D
5985	-	-	1.37	2.44
6145	-	-	1.92	2.34
6385	-	-	1.66	3.06
6465	-	-	1.16	2.15
6545	-	-	1.04	2.57
6625	-	-	0.52	0.57
6705	-	--	0.56	1.32
6785	-	-	2.53	1.87
6865	-	-	3.06	1.65
6945	-	-	5.70	4.18
7025	-	-	3.38	2.39

Table 349 - Unwanted Emissions Within the Band Results



FCC 47 CFR Part 15, Limit Clause 15.407(b)(6)

For transmitters operating within the 5.925–7.125 GHz bands:

Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. 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, and 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. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

ISED RSS-248, Limit Clause 4.7.2(b)

e.i.r.p. spectral density of unwanted emissions falling into the 5925-7125 MHz band shall be attenuated (in dB) below the reference power spectral density by:

- i. 20 dB at 1 MHz away from the channel edge; and
- ii. a linearly interpolated value between 20 dB and 28 dB at frequencies between 1 MHz outside of channel edge and one (1) channel bandwidth from the operating channel centre, respectively; and
- iii. 28 dB at one (1) channel bandwidth away from the operating channel centre; and
- iv. a linearly interpolated value between 28 dB and 40 dB at frequencies between one (1) channel bandwidth from the channel centre and one- and one-half (1.5) times the channel bandwidth away from the operating channel centre, respectively; and
- v. 40 dB at one- and one-half (1.5) times the channel bandwidth away from the channel centre; and
- vi. a minimum of 40 dB at frequencies that are further away than one and one-half (1.5) times the channel bandwidth from the channel centre;



2.5.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 14.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Hygrometer	Rotronic	I-1000	3068	12	21-Sep-2023
Network Analyser	Rohde & Schwarz	ZVA 40	3548	12	24-Feb-2023
1800-6000 MHz Power Splitter	Mini-Circuits	ZN2PD-63-S+	4055	-	O/P Mon
Calibration Unit	Rohde & Schwarz	ZV-Z54	4368	12	24-Feb-2023
Multi-GNSS Simulator (GPS)	Spirent	GSS6700	4596	12	22-Aug-2023
Power splitter - 2 port	Mini-Circuits	ZN2PD-63-S+	4743	12	30-Nov-2023
Cable (18 GHz)	Rosenberger	LU7-071-1000	5096	12	23-Oct-2023
Cable (18 GHz)	Rosenberger	LU7-071-1000	5100	12	23-Oct-2023
AC Programmable Power Supply	iTech	IT7324	5225	-	O/P Mon
Attenuator 5W 30dB DC-18GHz	Aaren	AT40A-4041-D18-30	5504	12	21-Apr-2023
MXA Signal Analyser	Keysight Technologies	N9020B	5529	24	13-Dec-2024
Signal Conditioning Unit	TUV SUD	SPECTRUM SCU001	5546	12	06-Apr-2023
Directional Coupler 2-8GHz	RF-Lambda	RFDC2G8G10	5765	-	O/P Mon
Directional Coupler 2-8GHz	RF-Lambda	RFDC2G8G10	5766	-	O/P Mon
AC Programmable Power Supply	iTech	IT7324	5907	-	O/P Mon
MXA Signal Analyser	Keysight Technologies	N9020B	5919	24	13-Mar-24
Signal Conditioning Unit	TUV SUD	SPECTRUM SCU003	5932	12	10-May-23
Digital Multimeter	Fluke	115	6145	12	17-Jun-2023
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6172	12	17-Jul-2023
Coaxial Fixed Attenuator DC-18GHz 5W 10dB	RF-Lambda	RFS5G18B10SMP	6176	12	17-Jul-2023

Table 350

O/P Mon - Output Monitored using calibrated equipment



2.6 Spurious Radiated Emissions

2.6.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.209 and 15.407 (b)
ISED RSS-248, Clause 4.7
ISED RSS-GEN, Clause 6.13 and 8.9

2.6.2 Equipment Under Test and Modification State

A2786, S/N: C3Q0QNNQ4L - Modification State 0

2.6.3 Date of Test

02-February-2023 to 11-February-2023

2.6.4 Test Method

Testing was performed in accordance with KDB 987594 D02 and ANSI C63.10, clause 6.3, 6.5 and 6.6.

Tests were performed in HE20 CDD in 2TX MIMO mode, with measurements undertaken from 30 MHz to 40 GHz, on channels 45 (6175 MHz), 105 (6475 MHz), 149 (6695 MHz), and channel 209 (6995 MHz).

For the purpose of this testing, spurious emissions were limited to 1 GHz to 40 GHz on all other test channels.

All testing was performed using the lowest data rate/modulation scheme for the applicable mode since this was declared worst case by the customer.

Plots for average measurements were taken in accordance with ANSI C63.10, clause 12.7.7.2 with max-hold trace to characterize the EUT. Where emissions were detected, final average measurements were taken in accordance with ANSI C63.10, clause 4.1.4.2.2.

The plots shown are the characterization of the EUT. The limits on the plots represent the most stringent case for restricted bands, (54/74 dBuV/m @ 3 m and 64/84 dBuV/m @ 1m) when compared to -27 dBm/MHz RMS EIRP and -7 dBm/MHz Peak EIRP outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

The following conversion can be applied to convert from dBuV/m to uV/m:
 $10^{(\text{Field Strength in dBuV/m}/20)}$.

EIRP was converted to field strength at 3m using the following formula:
Field Strength (dBuV/m at 3 m) = EIRP (dBm) + 95.2 dB

2.6.5 Test Setup Diagram

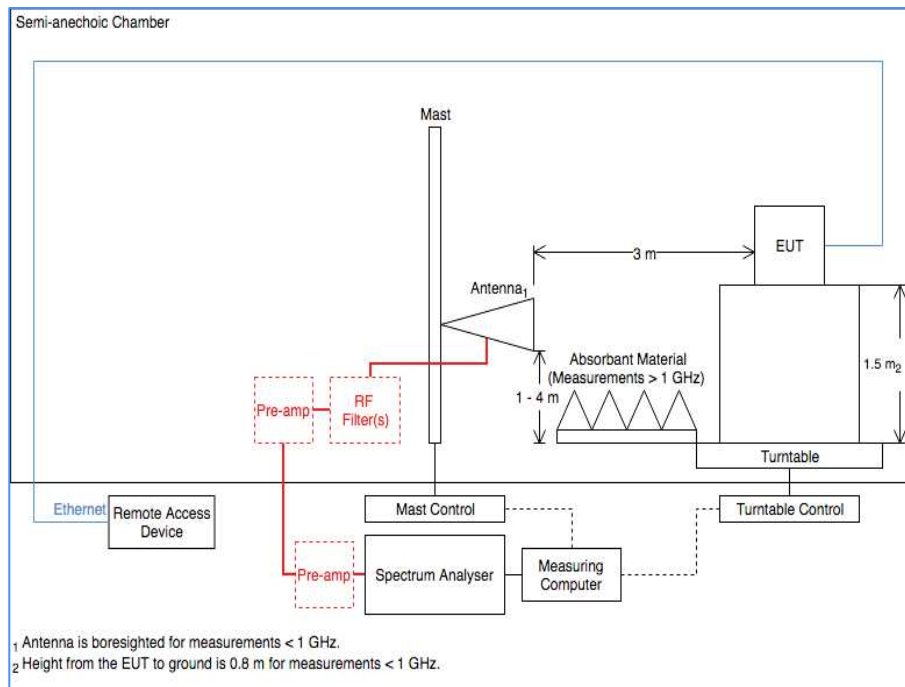


Figure 136

2.6.6 Environmental Conditions

Ambient Temperature	21.1 - 24.3 °C
Relative Humidity	33.6 - 39.9 %



2.6.7 Test Results

6 GHz WLAN

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11999.955	34.19	54.00	-19.81	RMS	247	144	Vertical
15999.955	41.12	54.00	-12.88	RMS	245	142	Horizontal
15999.995	42.07	54.00	-11.93	RMS	237	163	Vertical

Table 351 - U-NII-5 - 5955 MHz (CH1-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

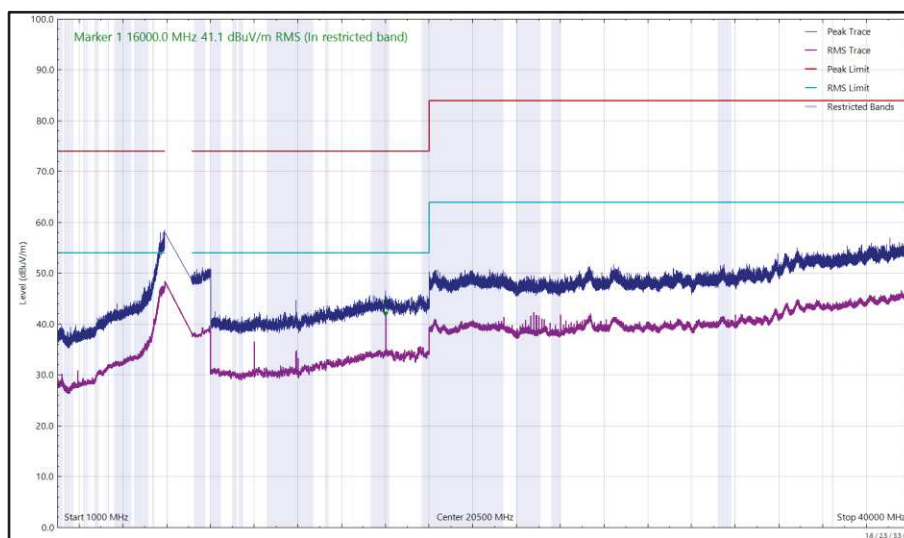


Figure 137 - U-NII-5 - 5955 MHz (CH1-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

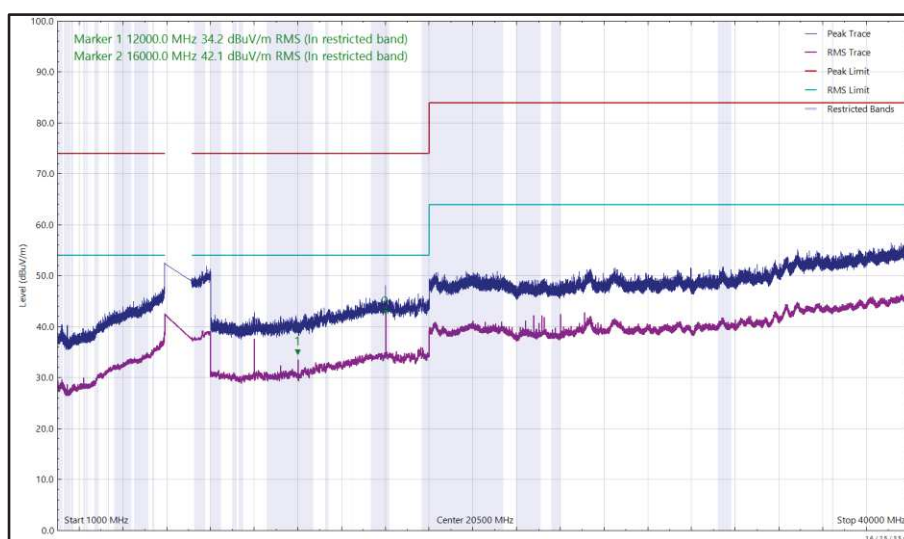


Figure 138 - U-NII-5 - 5955 MHz (CH1-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
49.845	22.09	40.00	-17.91	Q-Peak	209	307	Horizontal
52.981	22.32	40.00	-17.68	Q-Peak	0	100	Vertical
57.340	24.69	40.00	-15.31	Q-Peak	340	100	Vertical
8233.362	41.06	54.00	-12.94	RMS	338	100	Horizontal
11999.905	34.69	54.00	-19.31	RMS	233	157	Horizontal
15999.946	41.45	54.00	-12.55	RMS	245	146	Horizontal
16000.036	41.91	54.00	-12.09	RMS	240	194	Vertical

Table 352 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1,30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

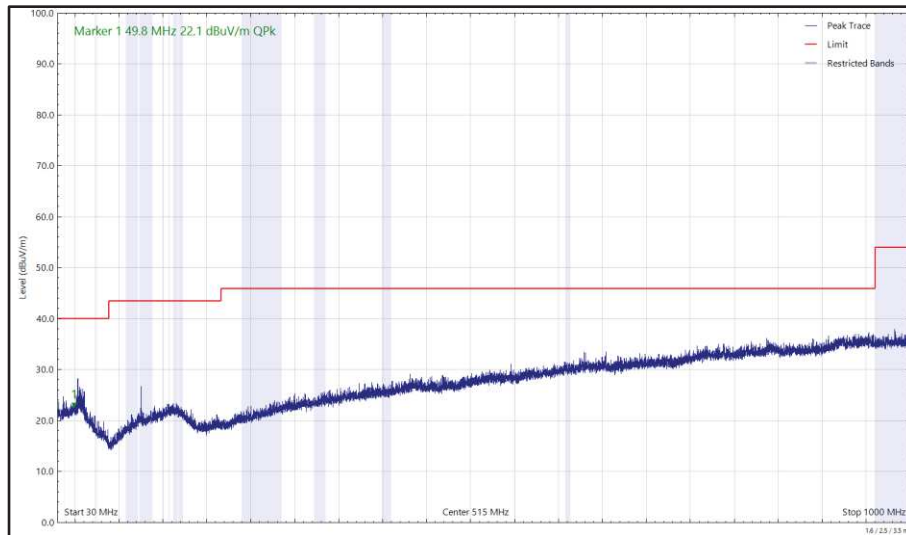


Figure 139 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1,30 MHz to 1 GHz, Horizontal (Peak)

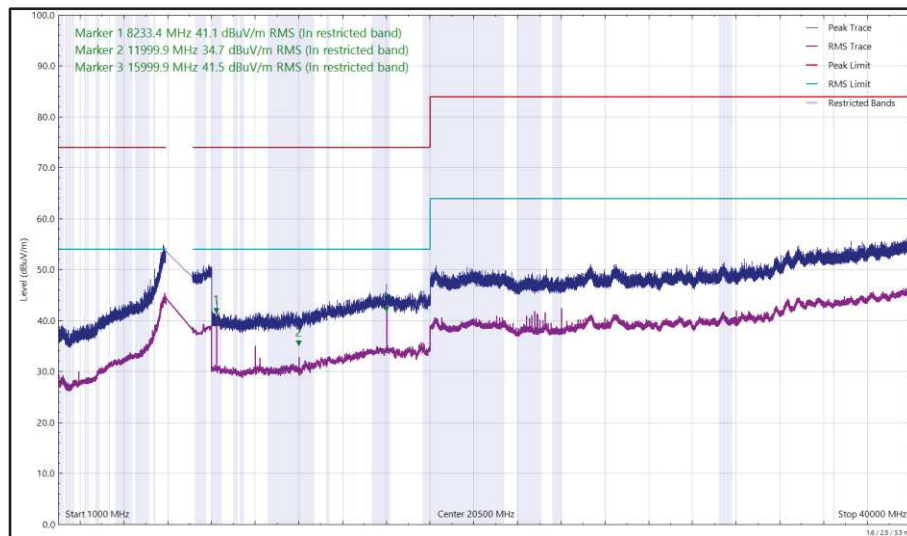


Figure 140 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

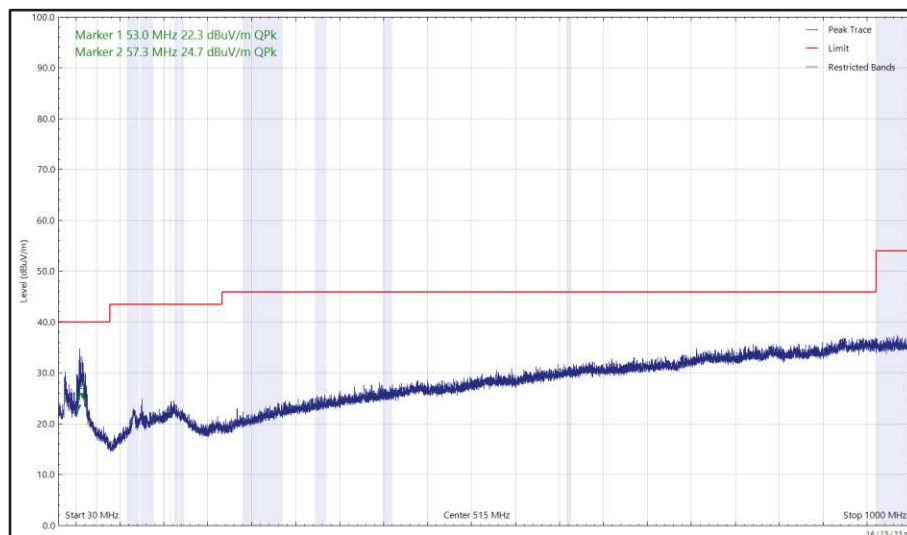


Figure 141 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

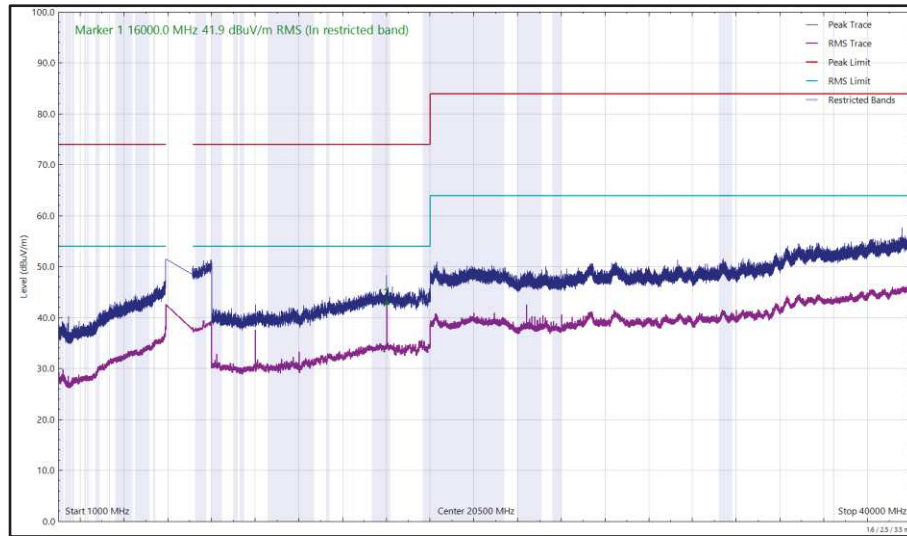


Figure 142 - U-NII-5 - 6175 MHz (CH45-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11999.865	35.09	54.00	-18.91	RMS	234	161	Horizontal
15999.975	41.59	54.00	-12.41	RMS	245	146	Horizontal
16000.030	41.20	54.00	-12.80	RMS	246	126	Vertical

Table 353 - U-NII-5 - 6415 MHz (CH93-6E), HE20, SU, CDD, Core 0 + Core 1,1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

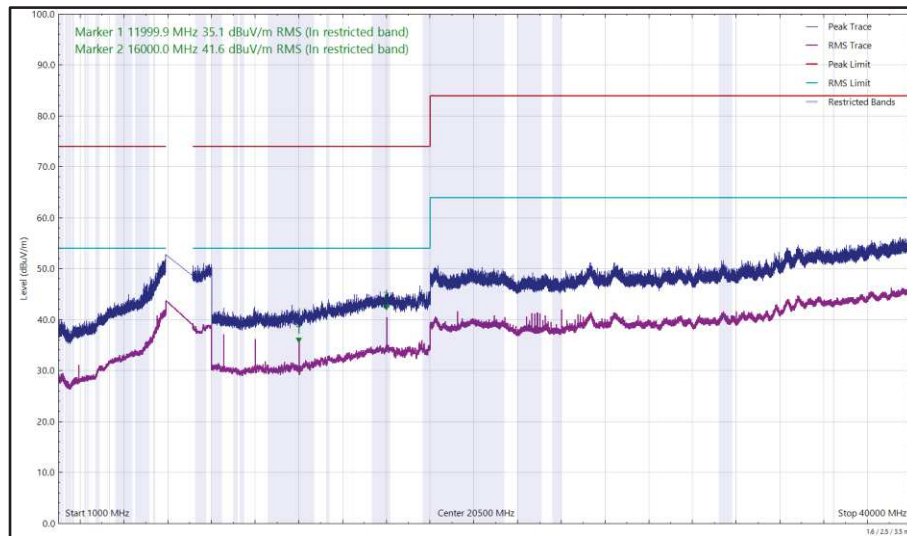


Figure 143 - U-NII-5 - 6415 MHz (CH93-6E), HE20, SU, CDD, Core 0 + Core 1,1 GHz to 40 GHz, Horizontal

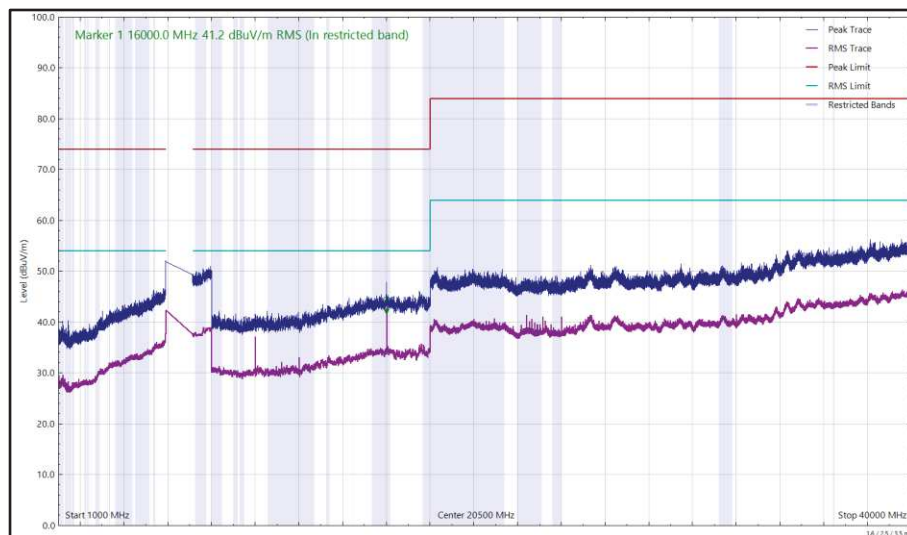


Figure 144 - U-NII-5 - 6415 MHz (CH93-6E), HE20, SU, CDD, Core 0 + Core 1,1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11999.845	34.05	54.00	-19.95	RMS	234	179	Horizontal
15999.990	39.24	54.00	-14.76	RMS	246	172	Horizontal
16000.040	41.59	54.00	-12.41	RMS	237	162	Vertical

Table 354 - U-NII-6 - 6435 MHz (CH97-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

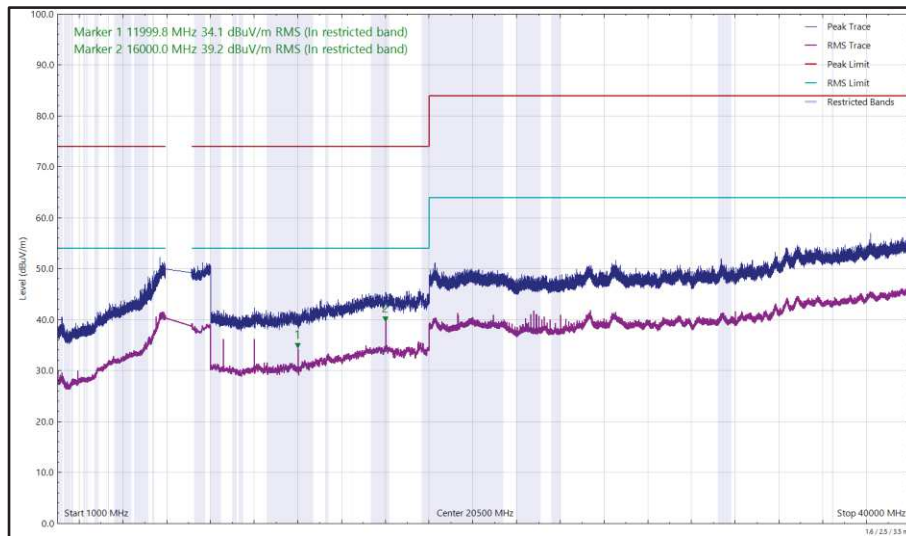


Figure 145 - U-NII-6 - 6435 MHz (CH97-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

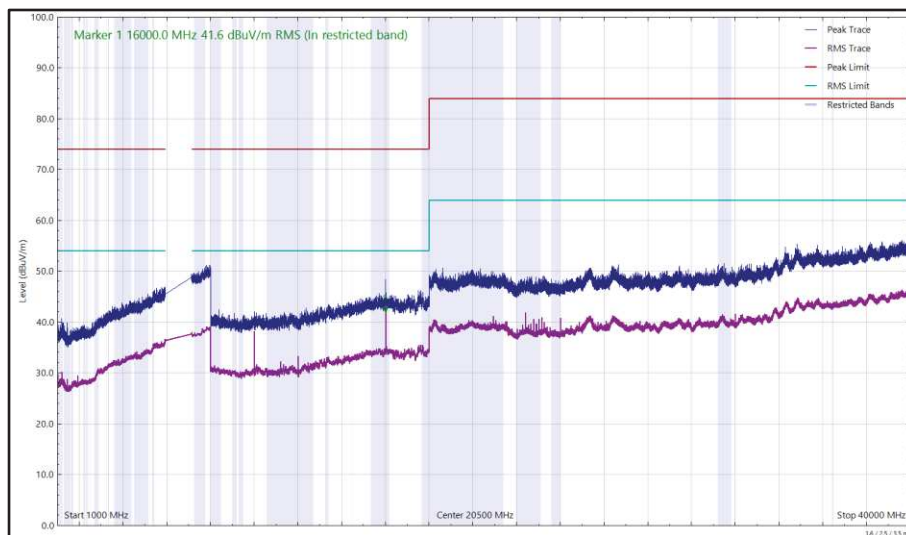


Figure 146 - U-NII-6 - 6435 MHz (CH97-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
45.886	26.38	40.00	-13.62	Q-Peak	108	107	Vertical
52.922	21.82	40.00	-18.18	Q-Peak	53	103	Horizontal
56.085	25.93	40.00	-14.07	Q-Peak	338	102	Vertical
11999.905	35.04	54.00	-18.96	RMS	234	154	Horizontal
16000.055	41.55	54.00	-12.45	RMS	245	159	Horizontal
16000.055	41.22	54.00	-12.78	RMS	245	131	Vertical

Table 355 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

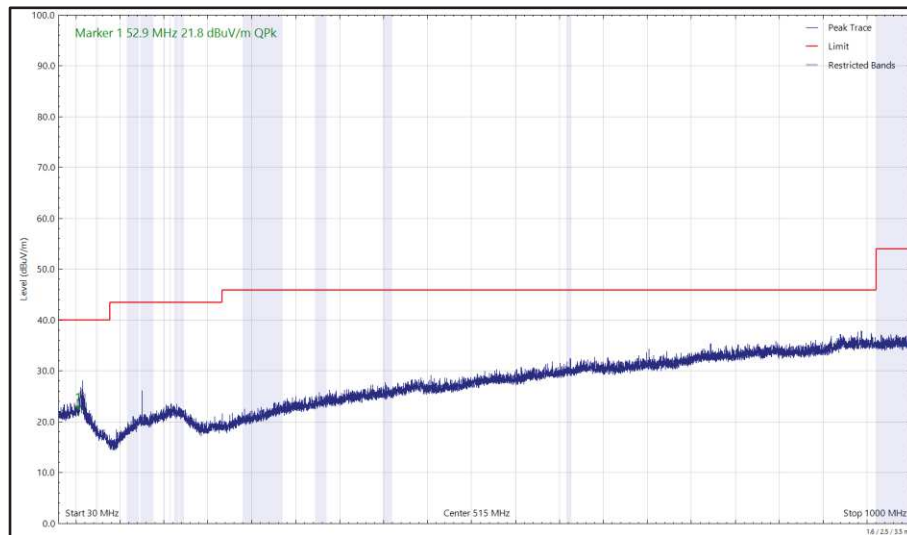


Figure 147 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

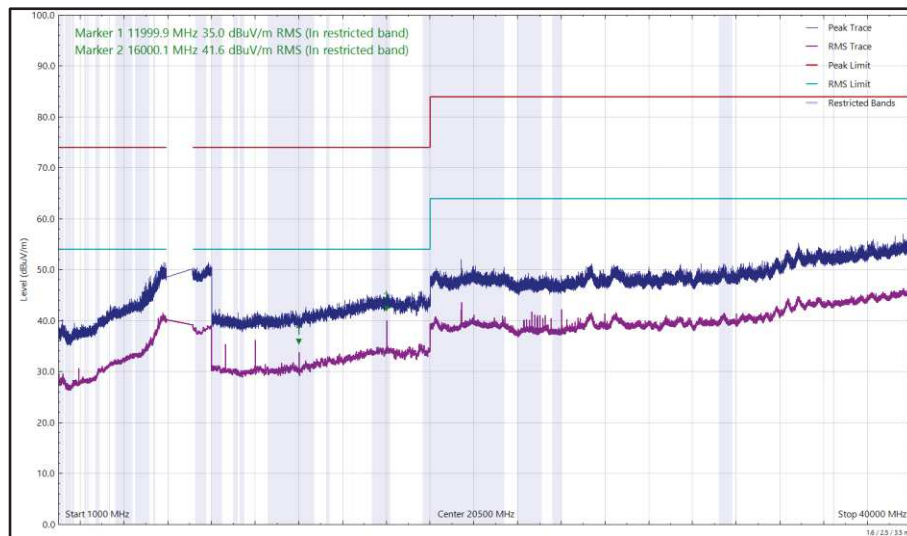


Figure 148 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

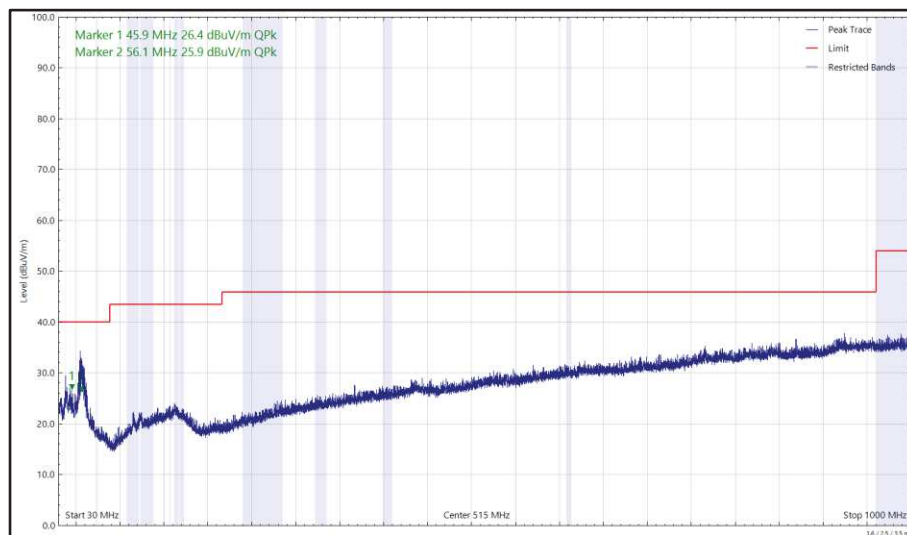


Figure 149 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

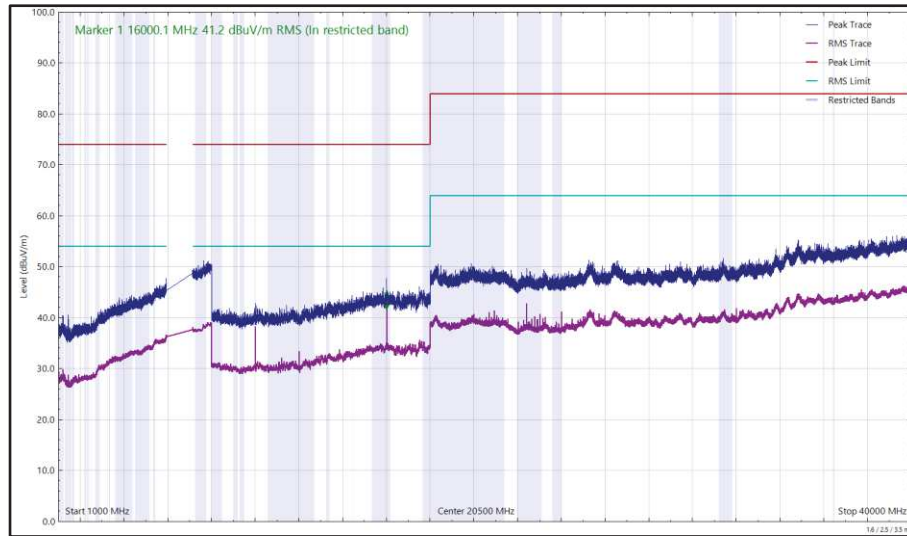


Figure 150 - U-NII-6 - 6475 MHz (CH105-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11999.930	34.97	54.00	-19.03	RMS	234	154	Horizontal
15999.975	41.97	54.00	-12.03	RMS	237	157	Vertical
16000.050	41.84	54.00	-12.16	RMS	244	153	Horizontal

Table 356 - U-NII-6 - 6515 MHz (CH113-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

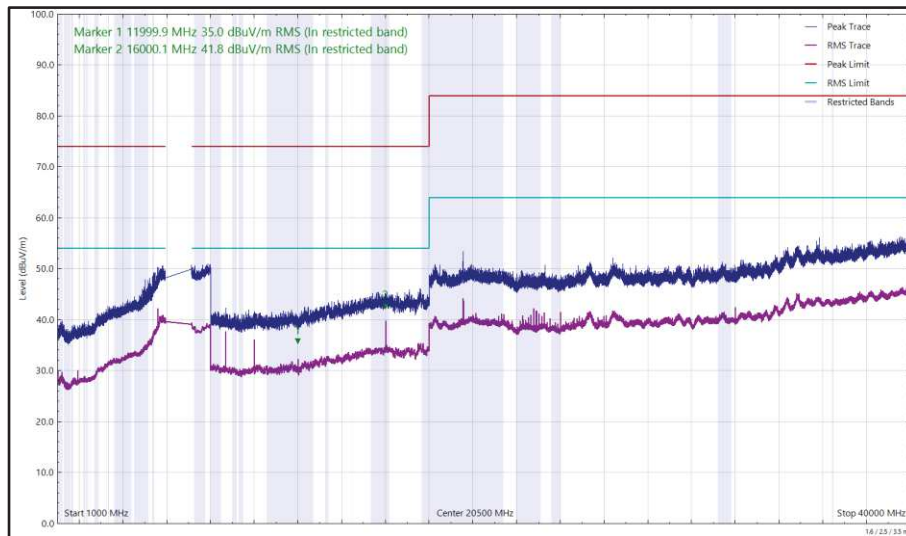


Figure 151 - U-NII-6 - 6515 MHz (CH113-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

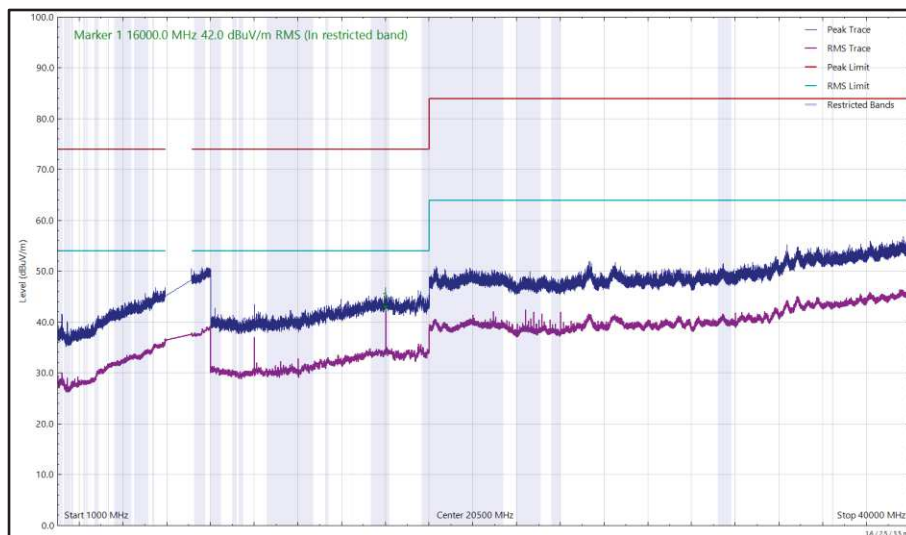


Figure 152 - U-NII-6 - 6515 MHz (CH113-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11999.860	34.31	54.00	-19.69	RMS	234	137	Horizontal
15999.990	41.96	54.00	-12.04	RMS	239	154	Vertical
16000.050	41.70	54.00	-12.30	RMS	245	152	Horizontal

Table 357 - U-NII-7 - 6535 MHz (CH117-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

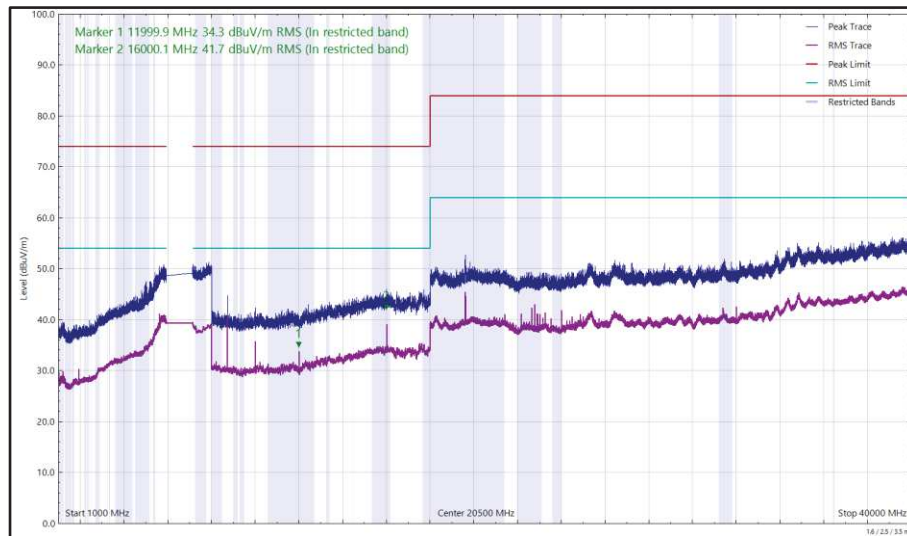


Figure 153 - U-NII-7 - 6535 MHz (CH117-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

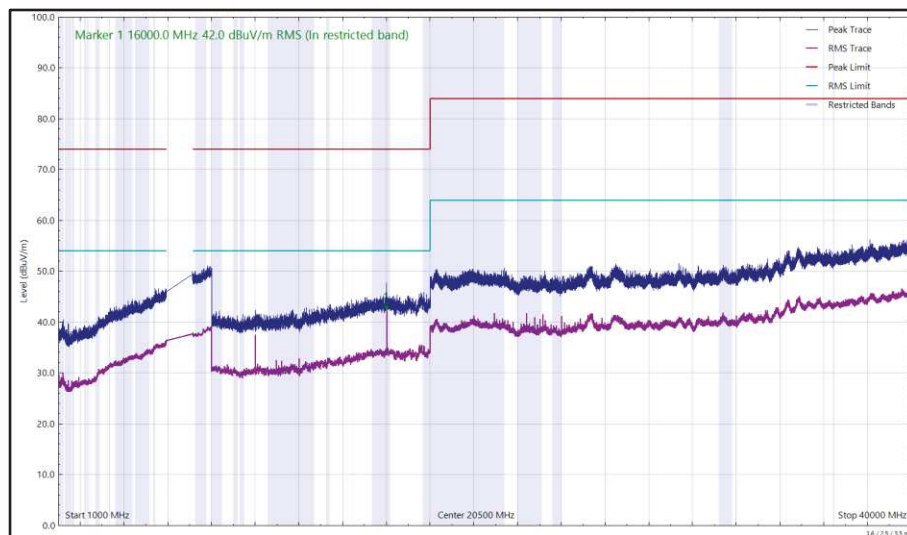


Figure 154 - U-NII-7 - 6535 MHz (CH117-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
53.125	21.80	40.00	-18.20	Q-Peak	273	157	Horizontal
56.644	24.63	40.00	-15.37	Q-Peak	354	109	Vertical
11999.865	34.10	54.00	-19.90	RMS	247	143	Vertical
15999.995	41.94	54.00	-12.06	RMS	239	156	Vertical
16000.015	41.69	54.00	-12.31	RMS	244	154	Horizontal

Table 358 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

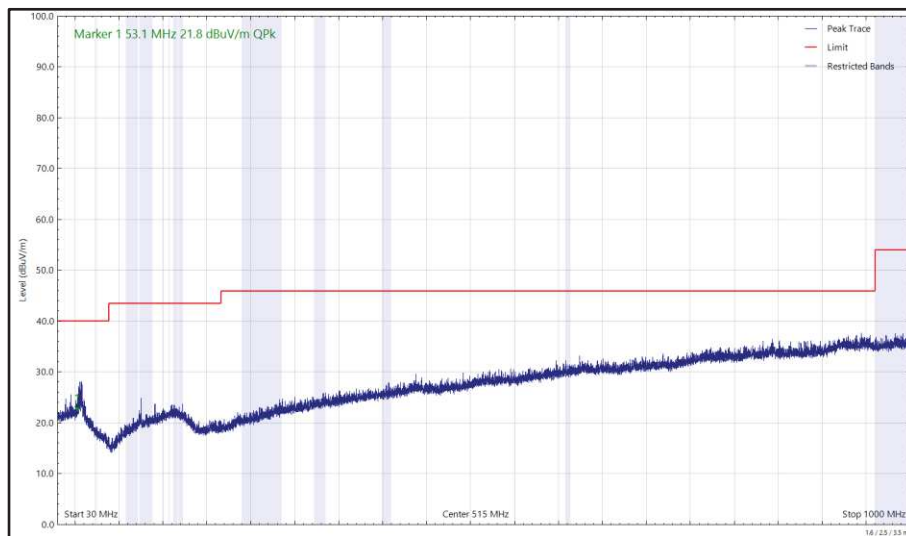


Figure 155 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

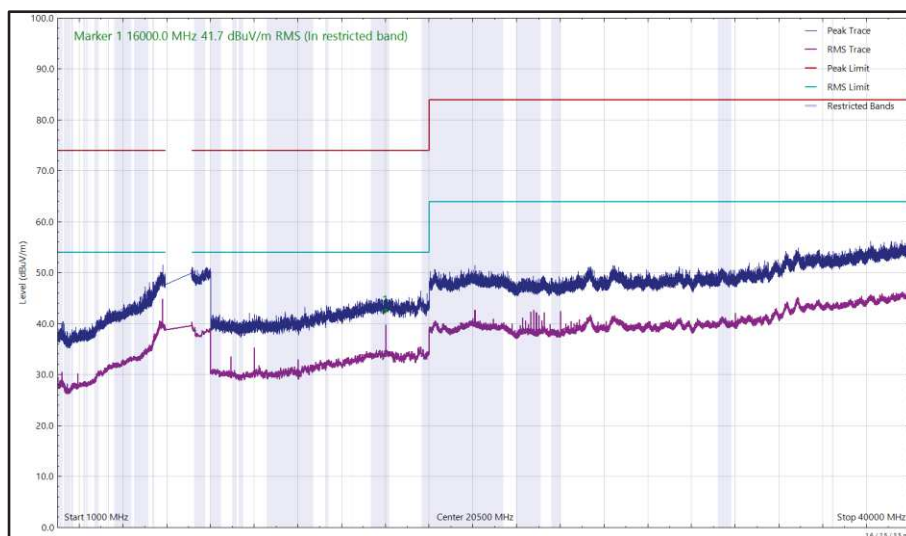


Figure 156 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

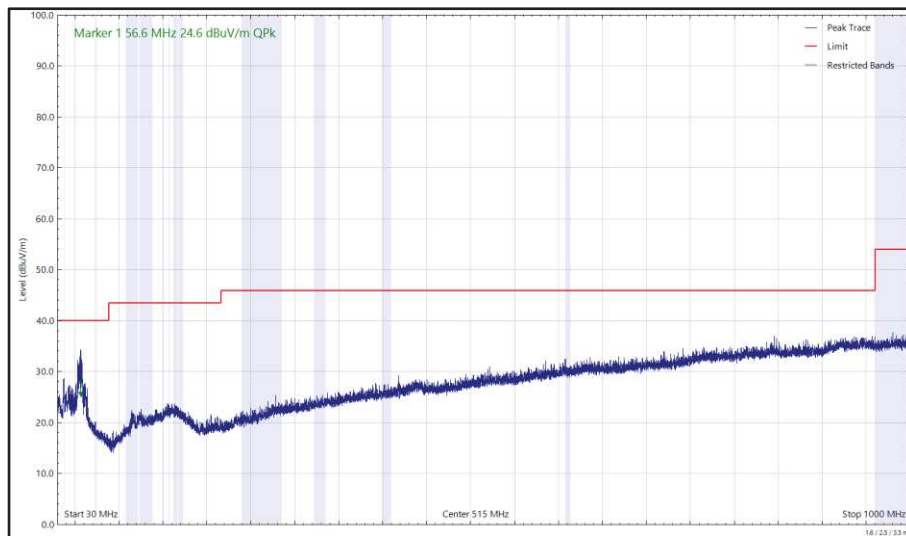


Figure 157 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

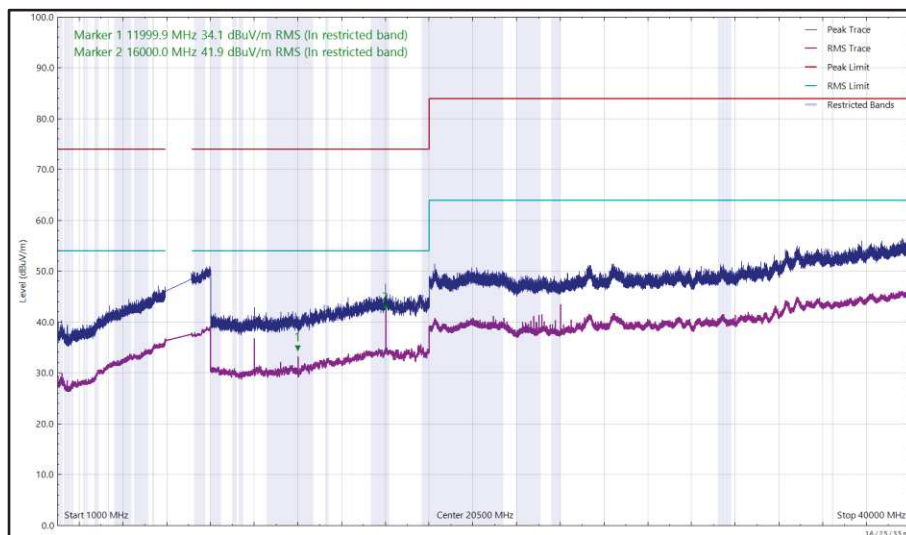


Figure 158 - U-NII-7 - 6695 MHz (CH149-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11999.895	34.98	54.00	-19.02	RMS	234	168	Horizontal
15999.995	41.78	54.00	-12.22	RMS	239	142	Vertical
16000.035	41.63	54.00	-12.37	RMS	245	153	Horizontal

Table 359 - U-NII-7 - 6855 MHz (CH181-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

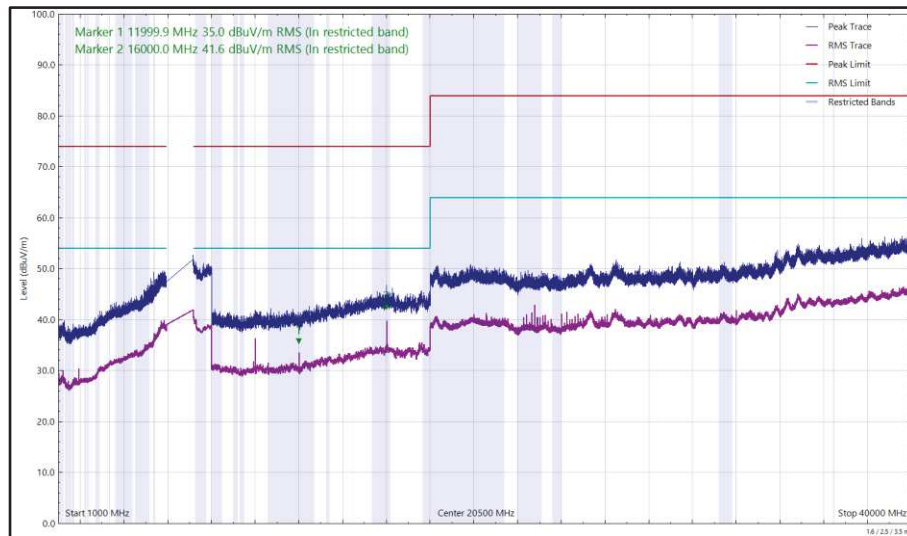


Figure 159 - U-NII-7 - 6855 MHz (CH181-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

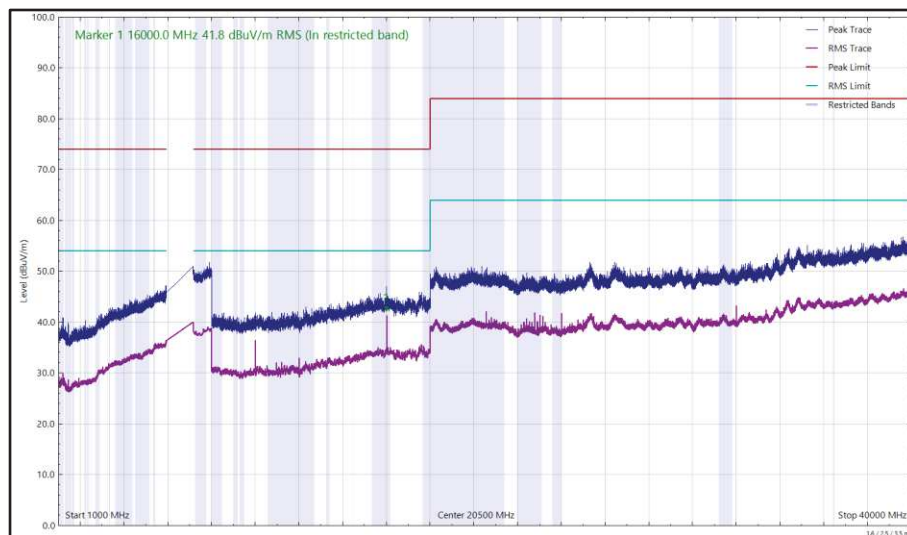


Figure 160 - U-NII-7 - 6855 MHz (CH181-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11999.850	34.94	54.00	-19.06	RMS	234	148	Horizontal
11999.890	34.00	54.00	-20.00	RMS	247	141	Vertical
15999.995	42.51	54.00	-11.49	RMS	240	176	Vertical
16000.035	41.55	54.00	-12.45	RMS	245	154	Horizontal

Table 360 - U-NII-8 - 6895 MHz (CH189-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

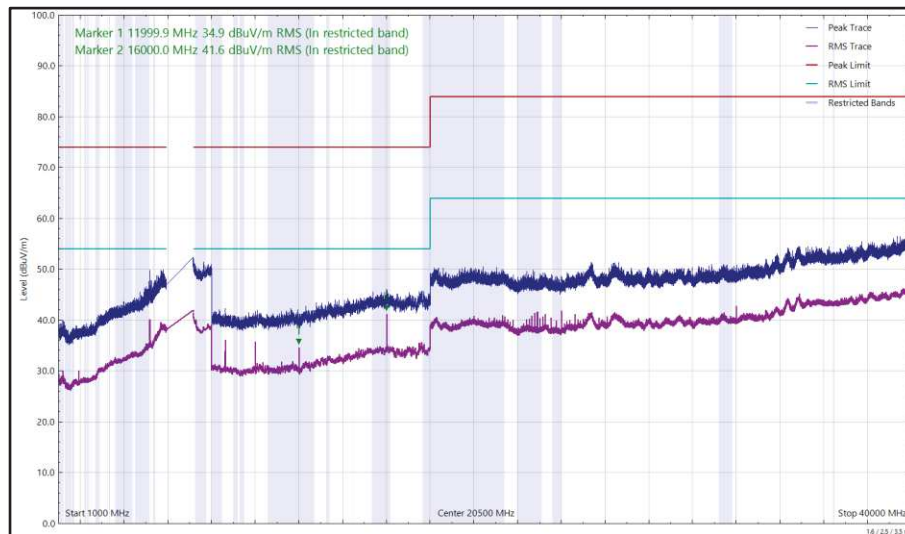


Figure 161 - U-NII-8 - 6895 MHz (CH189-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

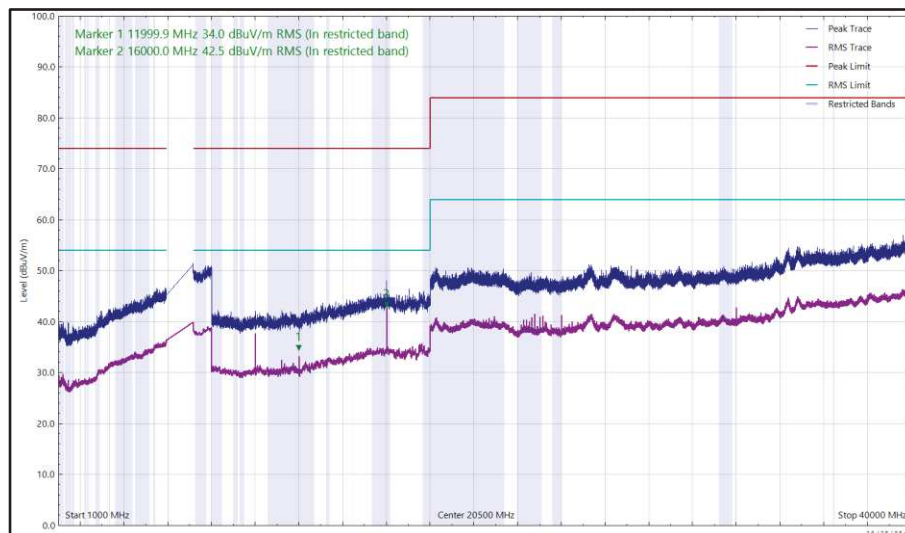


Figure 162 - U-NII-8 - 6895 MHz (CH189-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
45.892	26.47	40.00	-13.53	Q-Peak	244	102	Vertical
49.072	22.14	40.00	-17.86	Q-Peak	8	398	Horizontal
56.000	25.82	40.00	-14.18	Q-Peak	208	110	Vertical
11999.975	35.08	54.00	-18.92	RMS	234	166	Horizontal
16000.040	42.47	54.00	-11.53	RMS	239	177	Vertical
16000.050	41.56	54.00	-12.44	RMS	245	154	Horizontal

Table 361 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

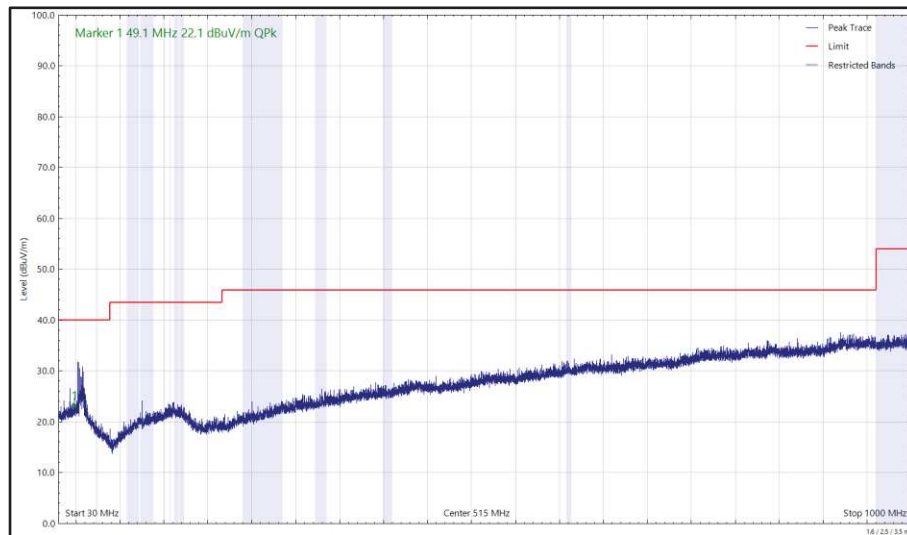


Figure 163 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

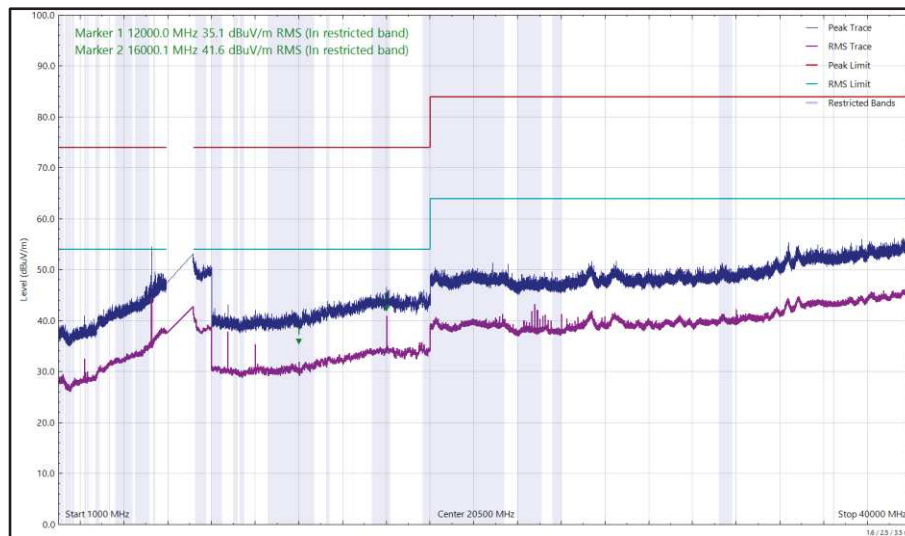


Figure 164 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

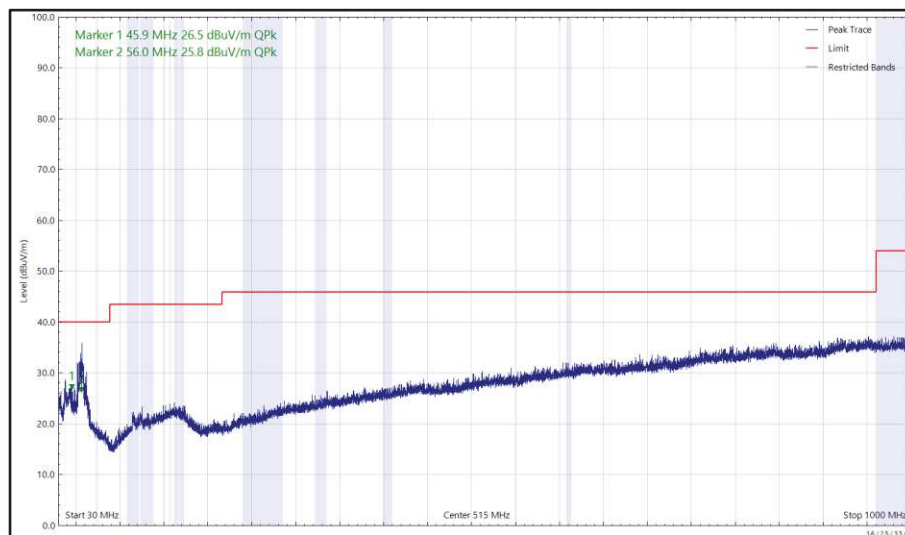


Figure 165 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

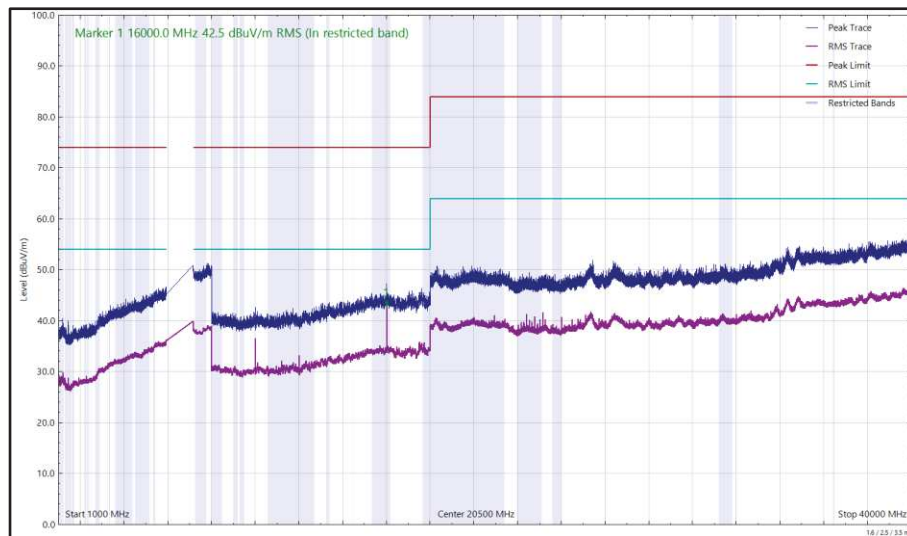


Figure 166 - U-NII-8 - 6995 MHz (CH209-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
11999.855	35.06	54.00	-18.94	RMS	234	163	Horizontal
15999.985	41.81	54.00	-12.19	RMS	244	150	Horizontal
15999.990	41.14	54.00	-12.86	RMS	245	118	Vertical

Table 362 - U-NII-8 - 7115 MHz (CH233-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

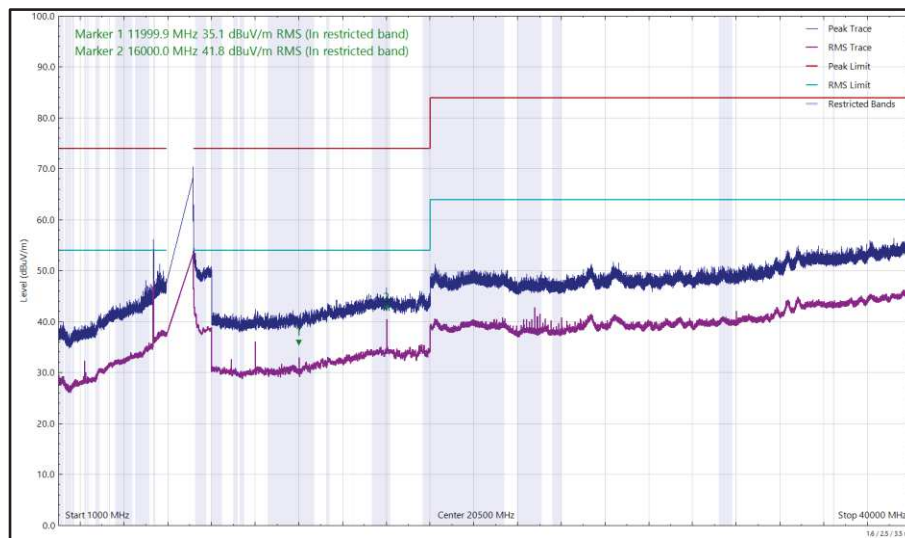


Figure 167 - U-NII-8 - 7115 MHz (CH233-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

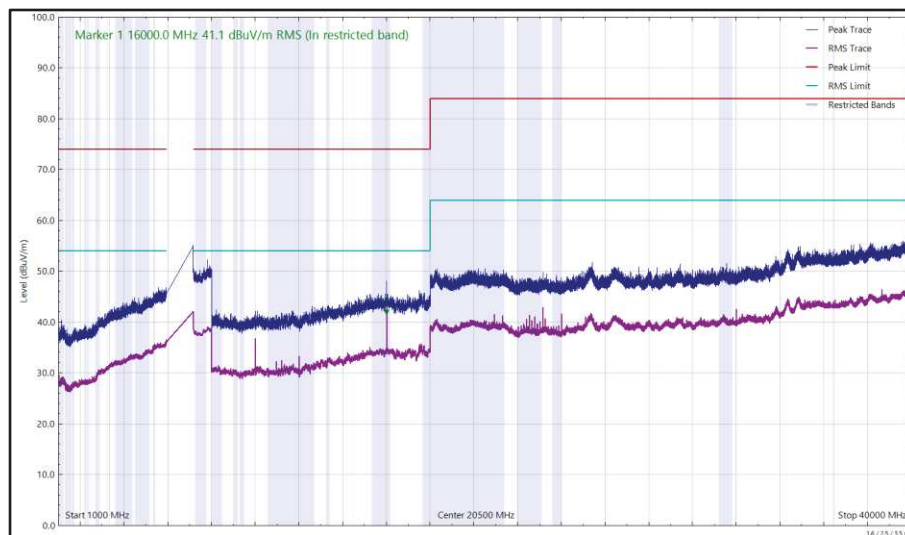


Figure 168 - U-NII-8 - 7115 MHz (CH233-6E), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical



FCC 47 CFR Part 15, Limit Clause 15.407(b)(5) and 15.209

Emissions not falling within the restricted bands listed in 15.205:

For transmitters operating within the 5.925–7.125 GHz band: Any emissions outside of the 5.925–7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in 15.209.

Emissions within the restricted bands listed in FCC 47 CFR Part 15.205:

Frequency (MHz)	Field Strength Limit at 3m (µV/m)	Field Strength Limit at 3m (dBµV/m)
30 to 88	100	40.00
88 to 216	150	43.52
216 to 960	200	46.02
Above 960	500	53.98

Table 363 - Radiated Emissions Limit Table (FCC)

ISED RSS-248, Limit Clause 4.7.2(a) and ISED RSS-GEN, Limit Clause 8.9

Emissions not falling within the restricted bands listed in ISED RSS-GEN, Clause 8.10:

Any emissions outside of the 5925-7125 MHz band shall not exceed -27 dBm/MHz e.i.r.p.

Any emissions below 1000 MHz shall meet the general field strength limits specified in RSS-Gen

Emissions falling within the restricted bands listed in ISED RSS-GEN, Clause 8.10:

Frequency (MHz)	Field Strength Limit at 3m (µV/m)	Field Strength Limit at 3m (dBµV/m)
30 to 88	100	40.00
88 to 216	150	43.52
216 to 960	200	46.02
Above 960	500	53.98

Table 364 - Radiated Emissions Limit Table (ISED)

2.6.8 Test Location and Test Equipment Used

This test was carried out in RF Chamber 15.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Emissions Software	TUV SUD	EmX V3.1.10	5125	-	Software
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	24-Feb-2023
Cable (K Type 2m)	Junkosha	MWX241-02000KMSKMS/B	5935	12	14-May-2023
DRG Horn Antenna (7.5-18GHz)	Schwarzbeck	HWRD750	5939	12	29-May-2023



Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
TRILOG Super Broadband Test Antenna	Schwarzbeck	VULB 9168	5944	24	03-Feb-2024
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 15	5963	36	28-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5964	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5966	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5967	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5968	-	TU
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5996	12	06-Jun-2023
Cable (N to N 1m)	Junkosha	MWX221-01000NMSNMS/B	5999	12	05-Jun-2023
Cable (N to N 7m)	Junkosha	MWX221-07000NMSNMS/B	6005	12	05-Jun-2023
Cable (N to N 8m)	Junkosha	MWX221-08000NMSNMS/A	6006	12	05-Jun-2023
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	6007	12	06-Jun-2023
Cable (SMA to SMA 6.5m)	Junkosha	MWX221-06500AMSAMS/B	6014	12	07-Jun-2023
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6140	12	21-Jun-2023
Digital Multimeter	Fluke	115	6147	12	16-Jun-2023
Humidity & Temperature meter	R.S Components	1364	6150	12	17-Jun-2023
Double Ridge Active Horn Antenna (18-40 GHz)	Com-Power	AHA-840	6187	24	02-Jun-2024
SAC Switch Unit	TUV SUD	TUV_SSU_001	6191	12	12-Dec-2023
8GHz Highpass Filter	Wainwright	WHKX 7150 8000 18000 50SS	6195	12	15-Jul-2023
Pre Amp 8 - 18 GHz	Wright Technologies	APS06 0061	6198	12	19-Jul-2023
Attenuator 4dB	Pasternack	PE7074-4	6203	24	16-Jul-2024
Cable (SMA to SMA 20cm)	TUV SUD	MH-FH 8-18	6214	12	25-Jul-2023

Table 365

TU - Traceability Unscheduled
 O/P Mon - Output Monitored using calibrated equipment



2.7 Contention Based Protocol

2.7.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.407 (d)(6)
ISED RSS-248, Clause 4.8

2.7.2 Equipment Under Test and Modification State

A2786, S/N: L650Q14X71 - Modification State 0

2.7.3 Date of Test

28-February-2023

2.7.4 Test Method

This test was performed in accordance with KDB 987594 D02, clause I.

2.7.5 Environmental Conditions

Ambient Temperature	24.0 °C
Relative Humidity	33.2 %

2.7.6 Test Results

6 GHz WLAN

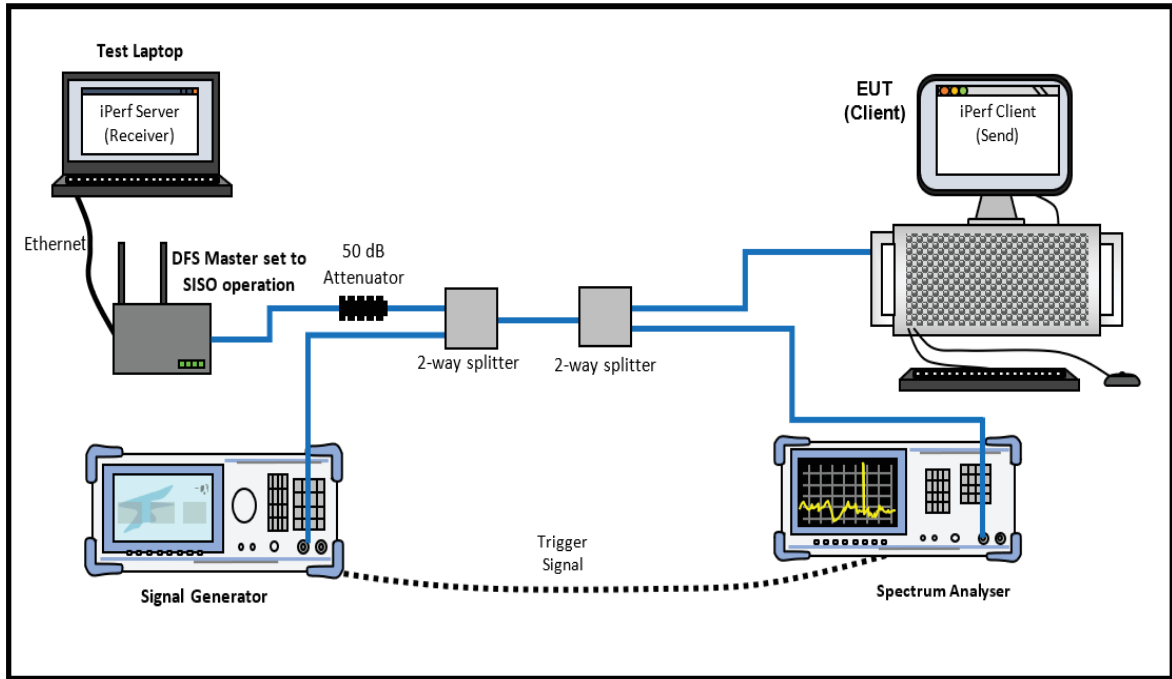


Figure 169 - Test Equipment Setup Diagram

Frequency Band	Test Frequency (MHz)	Operating Mode	Placement of the Incumbent Transmission	AWGN Signal Power at which the EUT ceased transmission (dBm)
U-NII-5 (5925-6425 MHz)	6135	HE20 MCS0	Incumbent transmission within OBW of EUT.	-73.57
U-NII-6 (6425-6525 MHz)	6455	HE20 MCS0	Incumbent transmission within OBW of EUT.	-71.67
U-NII-7 (6525-6875 MHz)	6615	HE20 MCS0	Incumbent transmission within OBW of EUT.	-70.54
U-NII-8 (6875-7125 MHz)	6935	HE20 MCS0	Incumbent transmission within OBW of EUT.	-71.25

Table 366 - Verification of the EUT to the incumbent signal – Narrowest Bandwidth



Frequency Band	Test Frequency (MHz)	Operating Mode	Placement of the Incumbent Transmission	AWGN Signal Power at which the EUT ceased transmission (dBm)
U-NII-5 (5925-6425 MHz)	6110	HE160 MCS0	Incumbent transmission at lower edge of EUT OBW.	-74.49
U-NII-5 (5925-6425 MHz)	6185	HE160 MCS0	Incumbent transmission at centre frequency of EUT.	-73.26
U-NII-5 (5925-6425 MHz)	6260	HE160 MCS0	Incumbent transmission at upper edge of EUT OBW.	-69.21
U-NII-6 (6425-6525 MHz)	6430	HE160 MCS0	Incumbent transmission at lower edge of EUT OBW.	-69.05
U-NII-6 (6425-6525 MHz)	6505	HE160 MCS0	Incumbent transmission at centre frequency of EUT.	-66.54
U-NII-6 (6425-6525 MHz)	6580	HE160 MCS0	Incumbent transmission at upper edge of EUT OBW.	-69.35
U-NII-7 (6525-6875 MHz)	6590	HE160 MCS0	Incumbent transmission at lower edge of EUT OBW.	-72.94
U-NII-7 (6525-6875 MHz)	6665	HE160 MCS0	Incumbent transmission at centre frequency of EUT.	-71.17
U-NII-7 (6525-6875 MHz)	6740	HE160 MCS0	Incumbent transmission at upper edge of EUT OBW.	-67.93
U-NII-8 (6875-7125 MHz)	6910	HE160 MCS0	Incumbent transmission at lower edge of EUT OBW.	-69.65
U-NII-8 (6875-7125 MHz)	6985	HE160 MCS0	Incumbent transmission at centre frequency of EUT.	-62.18
U-NII-8 (6875-7125 MHz)	7060	HE160 MCS0	Incumbent transmission at upper edge of EUT OBW.	-67.80

Table 367 - Verification of the EUT to the incumbent signal – Widest Bandwidth



FCC 47 CFR Part 15.407 (d)(6)

Indoor access points, subordinate devices and client devices operating in the 5.925–7.125 GHz band must employ a contention-based protocol.

KDB 987594, Limit Clause I

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

ISED RSS-248, Limit Clause 4.8.2

The RLAN devices shall utilize a contention-based protocol to detect the presence of any emissions on the channel that the RLAN device intends to occupy. The RLAN device must detect within its entire occupied bandwidth a radio frequency power of -62 dBm or lower. The minimum detection threshold power is the received power averaged over a 1microsecond reference to a 0 dBi antenna.

If an emission is detected, the RLAN device shall vacate the occupied channel and shall not transmit on this channel until the detected radio frequency power is equal to or greater than the -62 dBm threshold.



2.7.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 16

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Expires
Attenuator (20dB, 1W)	Seaelectro	60-674-1020-89	1520	-	O/P Mon
Cable 2.92mm 1m	Junkosha	MWX241-01000KMS	5414	12	24-Jul-2023
2.92mm 1m cable	Junkosha	MWX211/B	5415	12	24-Jul-2023
3.5 mm 1m Cable	Junkosha	MWX221-01000DMS	5419	12	24-Jul-2023
Signal Analyzer	Keysight Technologies	PXA N9030B	5432	12	28-Mar-2023
Attenuator 5W 20dB DC-18GHz	Aaren	AT40A-4041-D18-20	5498	12	16-May-2023
2-Way Power Divider (2 to 8 GHz)	Aaren	AT30A-TE0208-2-AF	5684	12	21-Dec-2023
2-Way Power Divider (2-8 GHz)	Aaren	AT30A-TE0208-2-AF	5685	12	21-Dec-2023
WiFi 6E Tri-Band Gaming Router	Asus	GT-AXE110000	5926	-	TU
Humidity & Temperature meter	R.S Components	1364	6148	12	17-Jun-2023
Cable (sma to sma 2m)	Radiall	testpro 4,2	6210	12	24-Jul-2023
Vector Signal Generator	Rohde & Schwarz	SMM100A	S/N: 1440.8002K02- 101931-CR	-	O/P Mon

Table 368

TU - Traceability Unscheduled
 O/P Mon - Output Monitored using calibrated equipment



3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Emission Bandwidth	± 3.914 MHz
Maximum Conducted Output Power	± 1.38 dB
Maximum Conducted Power Spectral Density	± 1.49 dB
Authorised Band Edges	± 6.3 dB
Unwanted Emissions within the 5925-7125 MHz band	± 3.45 dB
Spurious Radiated Emissions	30 MHz to 1 GHz ± 5.2 dB 1 GHz to 40 GHz ± 6.3 dB
Contention Based Protocol	Time: 0.30% Interferer BW: 267.98 kHz Interferer Level: 0.80 dB

Table 369

Measurement Uncertainty Decision Rule – Accuracy Method

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.