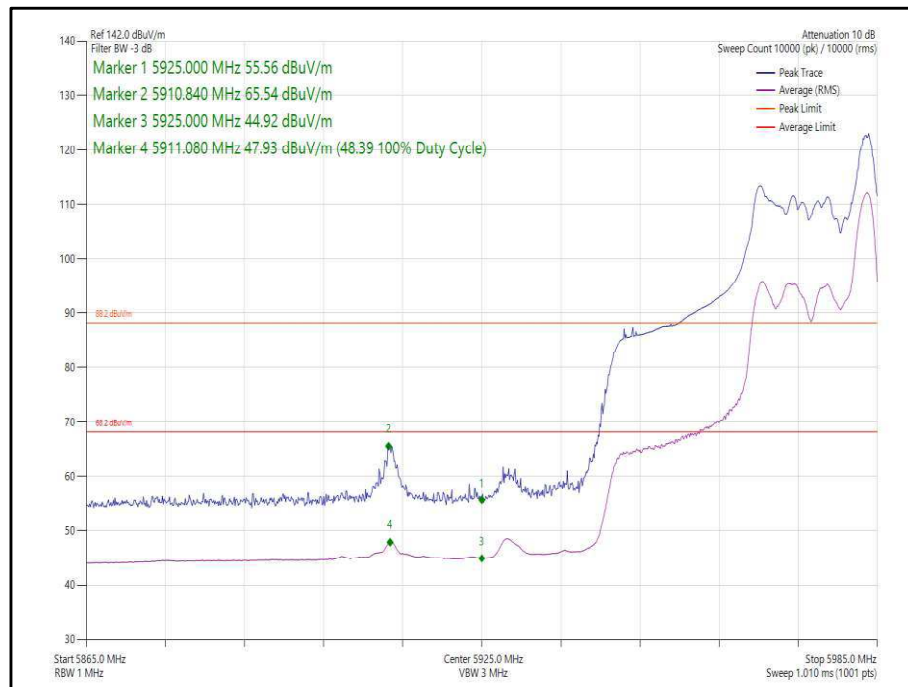
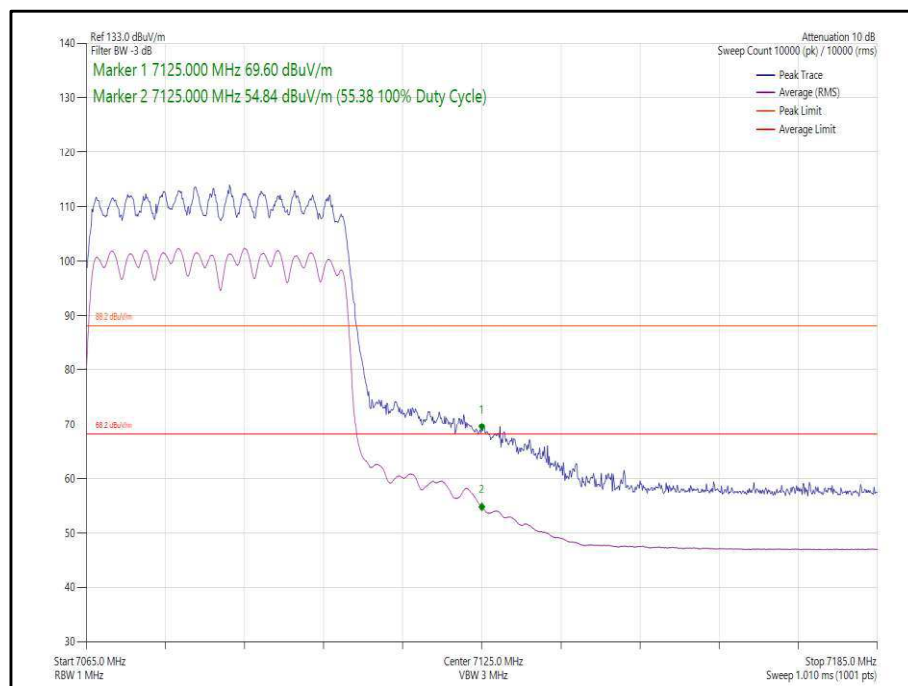




**Figure 66 - 802.11ax, HE40, RU26-17, CDD, Core 0-1 - 5965 MHz,
Band Edge Frequency 5925 MHz**



**Figure 67 - 802.11ax, HE40, SU, CDD, Core 0-1 - 7085 MHz,
Band Edge Frequency 7125 MHz**

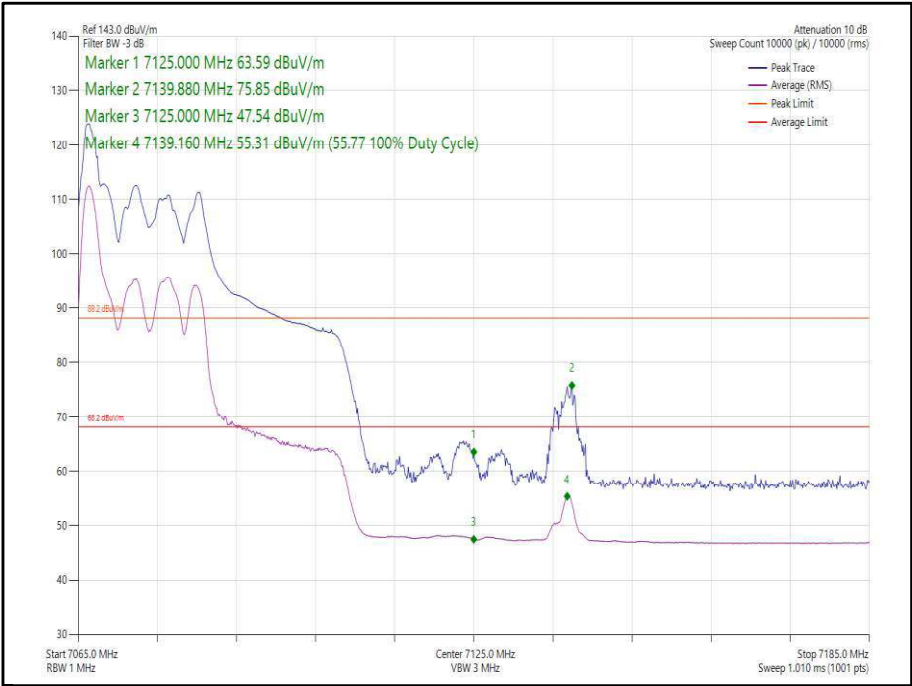


Figure 68 - 802.11ax, HE40, RU26-0, CDD, Core 0-1 - 7085 MHz,
Band Edge Frequency 7125 MHz

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 285 - SDM Authorised Band Edge Results

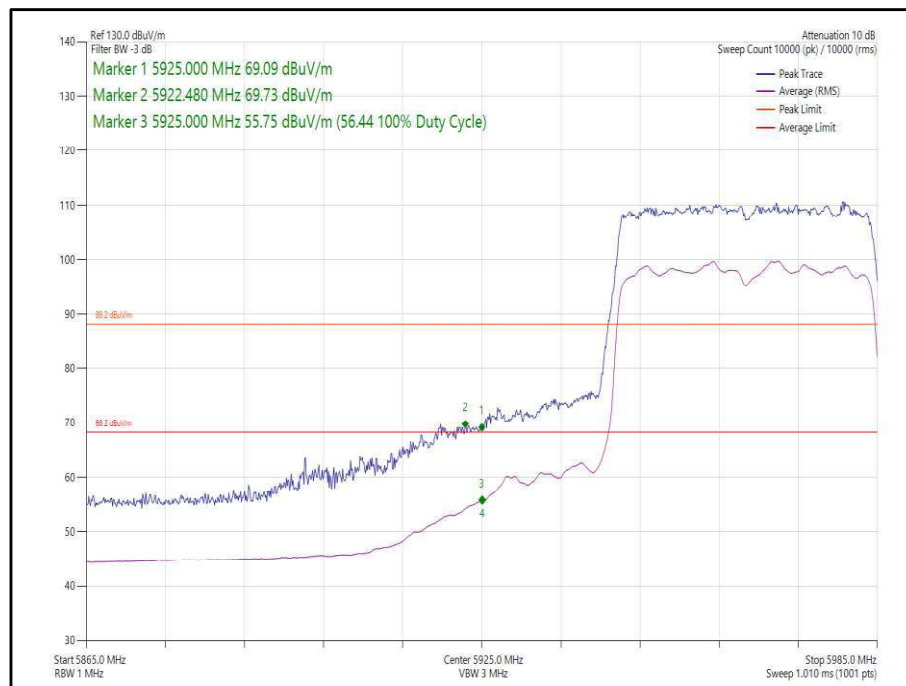
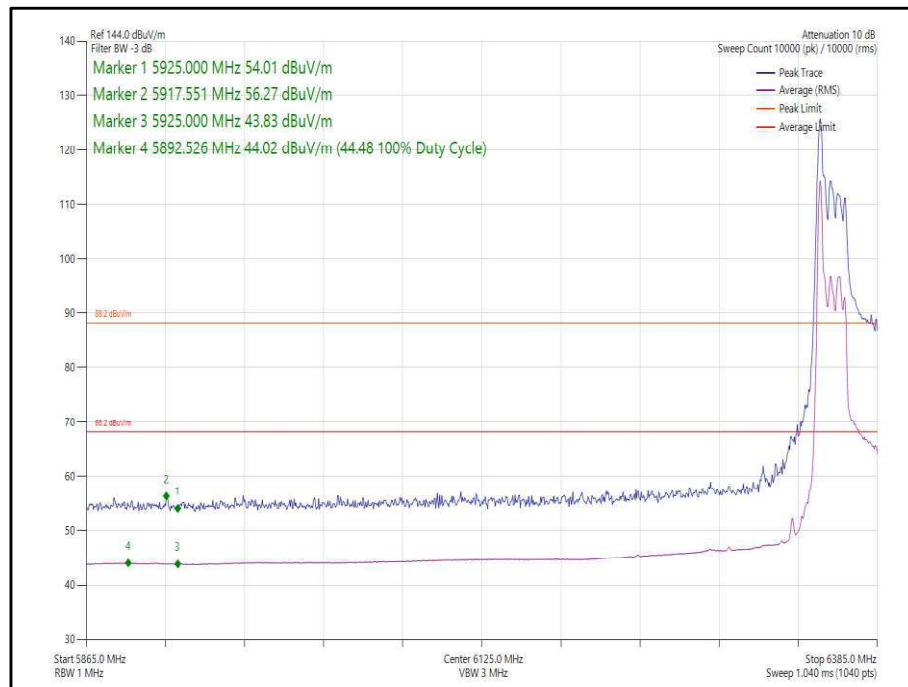
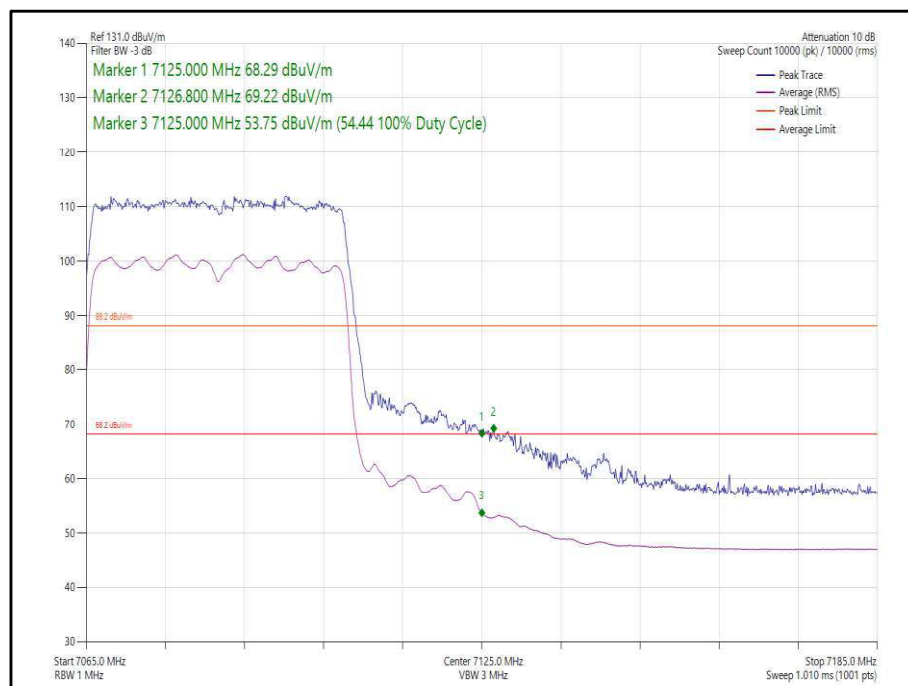


Figure 69 - 802.11ax, HE40, SU, SDM, Core 0-1 - 5965 MHz,
Band Edge Frequency 5925 MHz



**Figure 70 - 802.11ax, HE40, RU26-0, SDM, Core 0-1 - 6365 MHz,
Band Edge Frequency 5925 MHz**



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

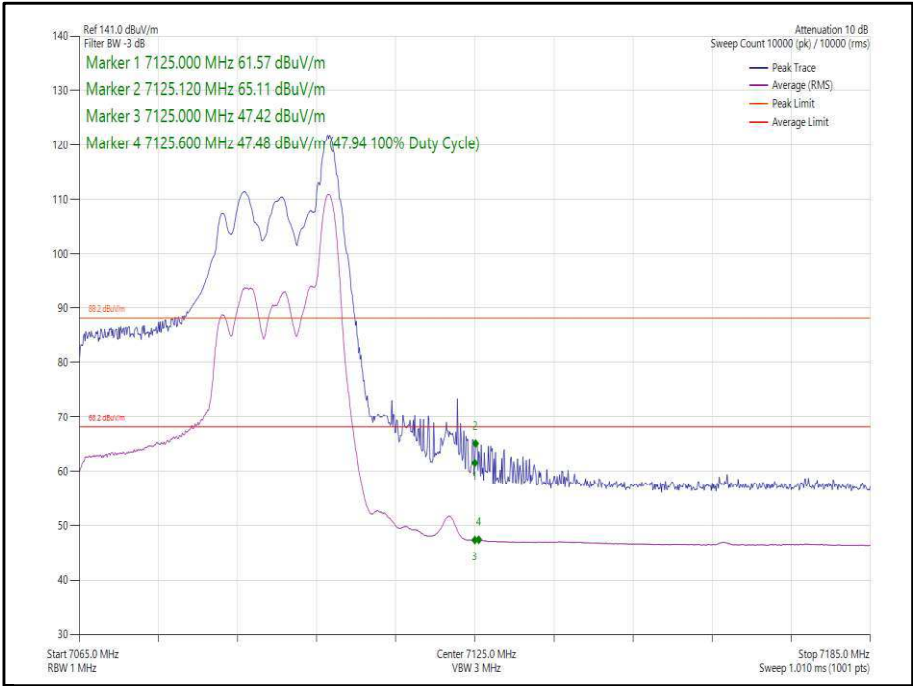


Figure 72 - 802.11ax, HE40, RU26-17, SDM, Core 0-1 - 7085 MHz,
Band Edge Frequency 7125 MHz



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 286 - SISO Authorised Band Edge Results

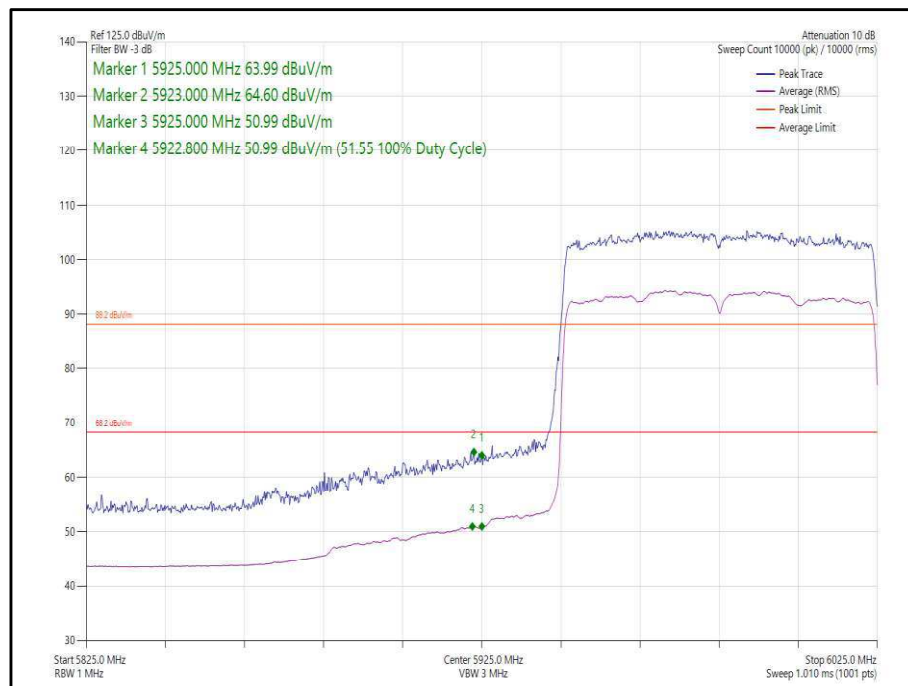
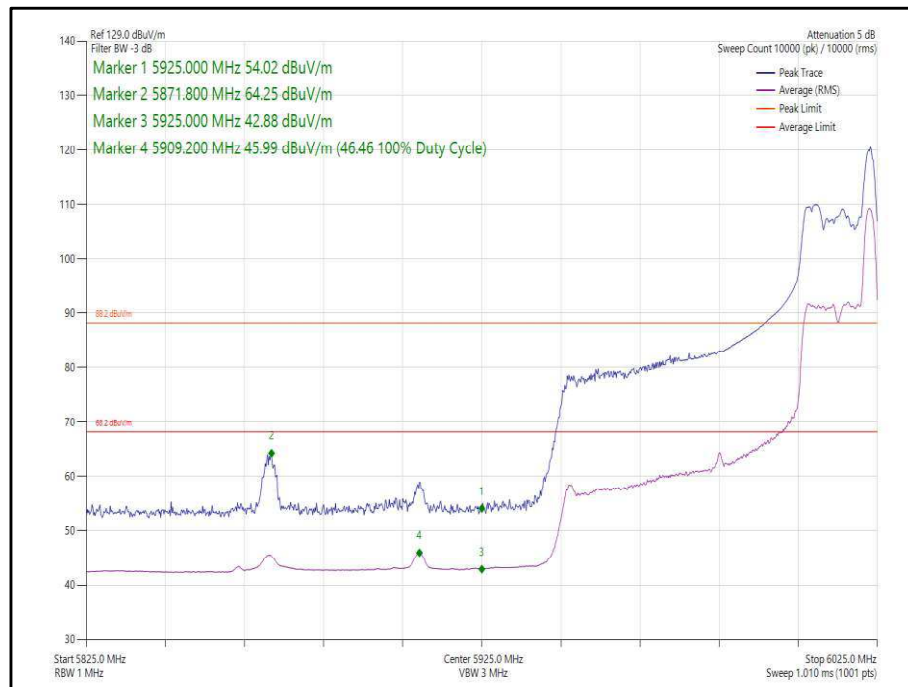
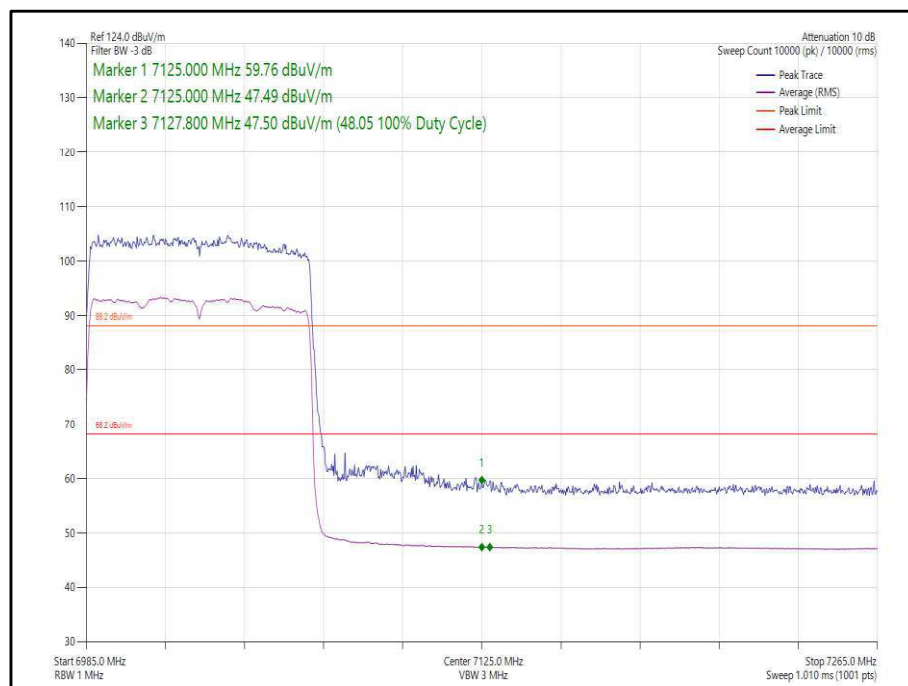


Figure 73 - 802.11ax, HE80, SU, SISO, Core 0 - 5985 MHz,
Band Edge Frequency 5925 MHz



**Figure 74 - 802.11ax, HE80, RU26-36, SISO, Core 0 - 5985 MHz,
Band Edge Frequency 5925 MHz**



**Figure 75 - 802.11ax, HE80, SU, SISO, Core 0 - 7025 MHz,
Band Edge Frequency 7125 MHz**

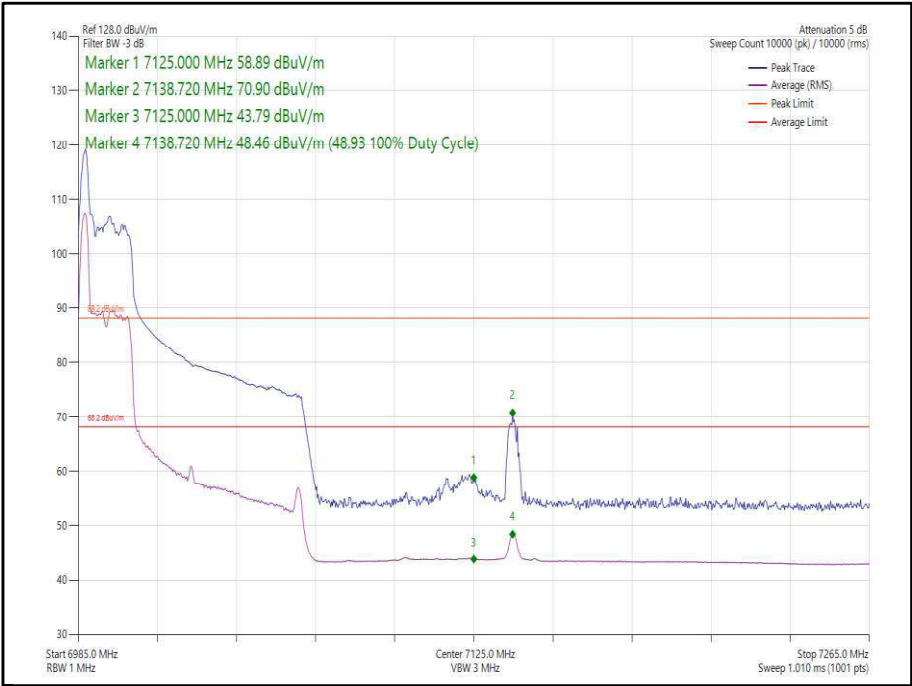


Figure 76 - 802.11ax, HE80, RU26-0, SISO, Core 0 - 7025 MHz,
Band Edge Frequency 7125 MHz



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 287 - SISO Authorised Band Edge Results

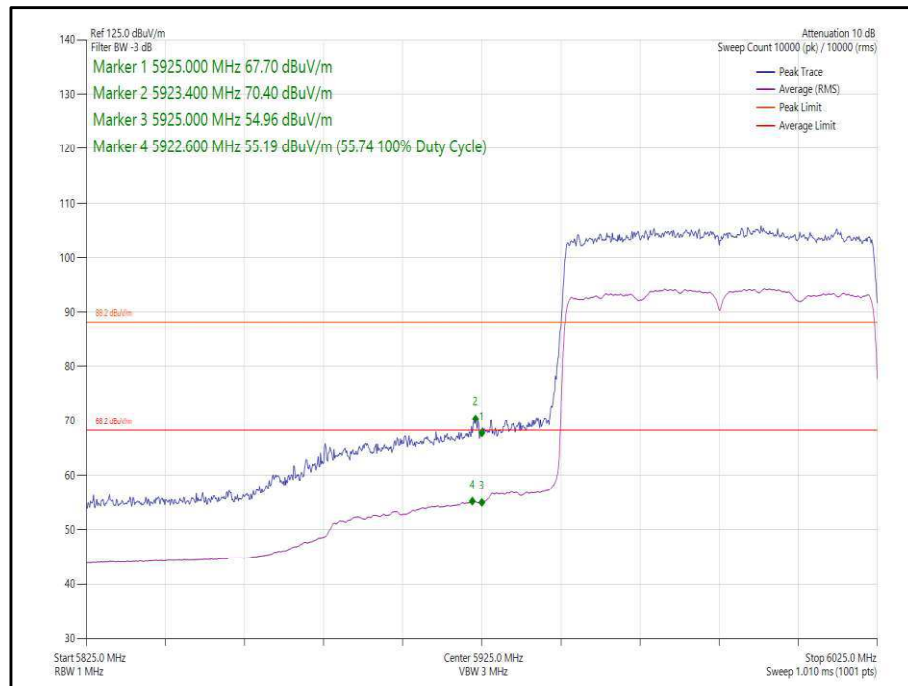
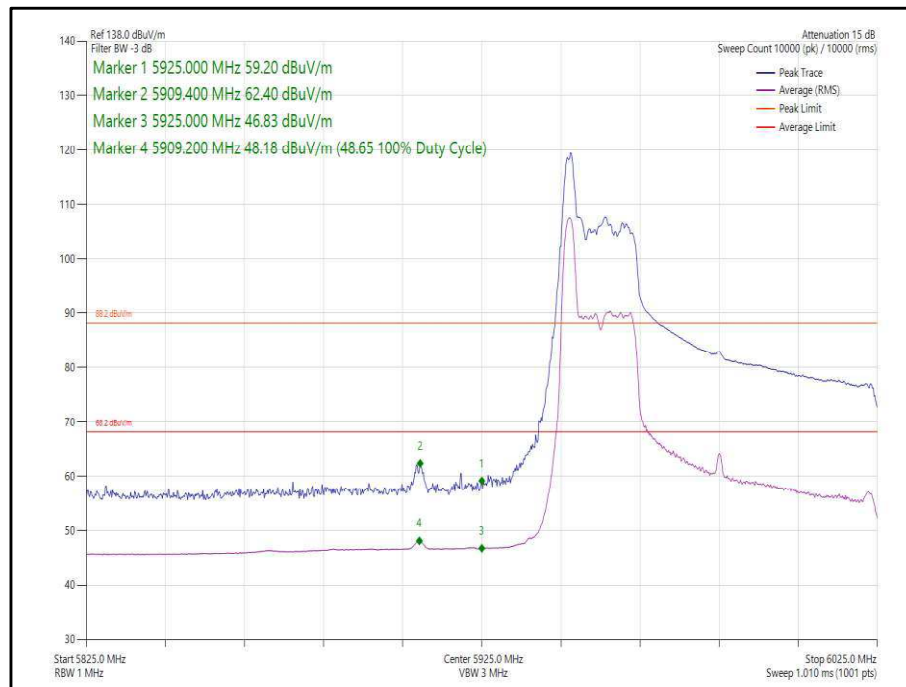
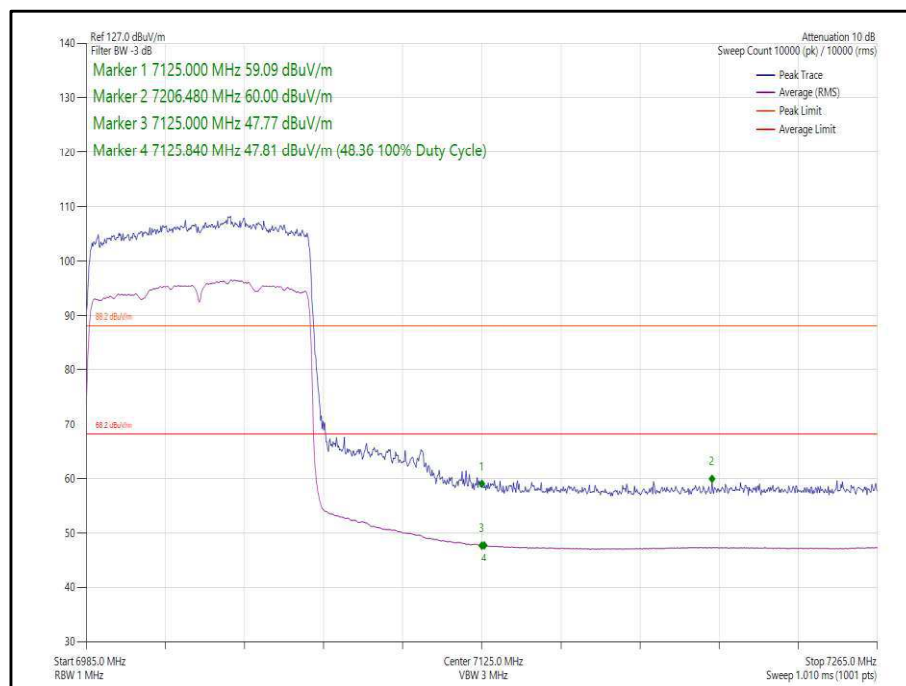


Figure 77 - 802.11ax, HE80, SU, SISO, Core 1 - 5985 MHz,
Band Edge Frequency 5925 MHz



**Figure 78 - 802.11ax, HE80, RU26-0, SISO, Core 1 - 5985 MHz,
Band Edge Frequency 5925 MHz**



**Figure 79 - 802.11ax, HE80, SU, SISO, Core 1 - 7025 MHz,
Band Edge Frequency 7125 MHz**

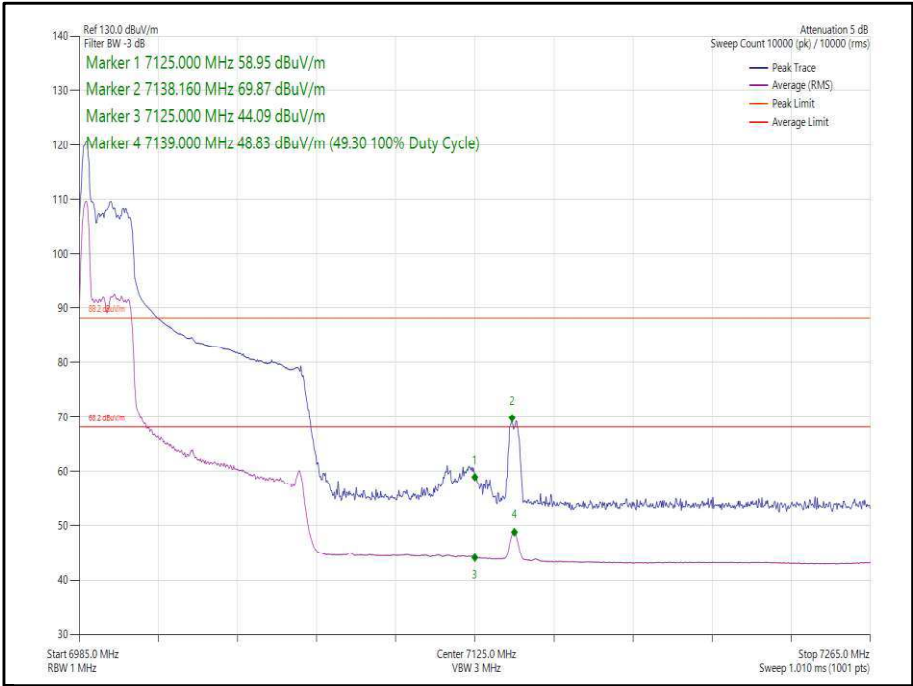


Figure 80 - 802.11ax, HE80, RU26-0, SISO, Core 1 - 7025 MHz,
Band Edge Frequency 7125 MHz

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 288 - CDD Authorised Band Edge Results

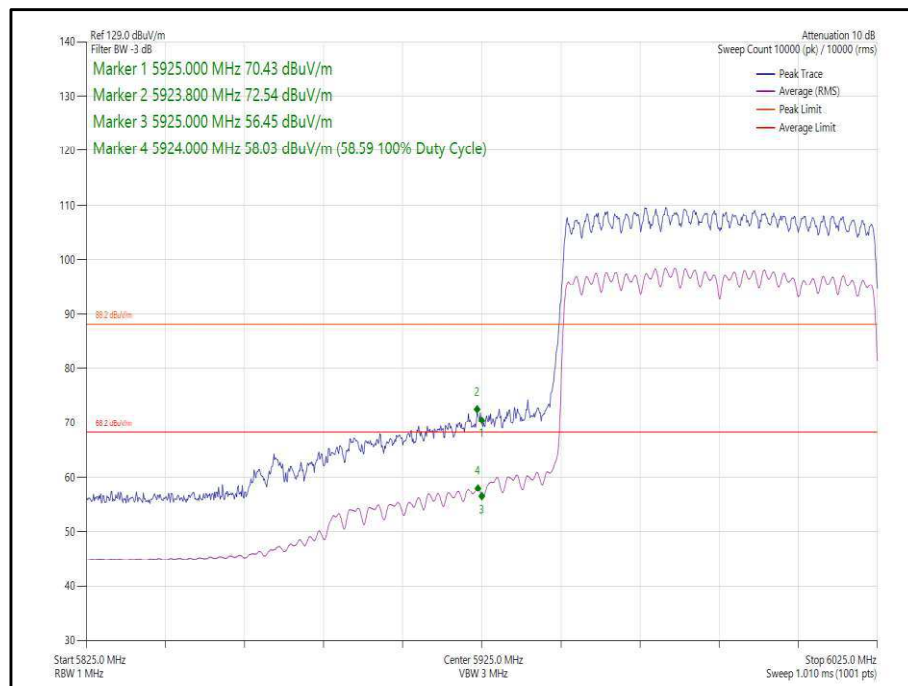
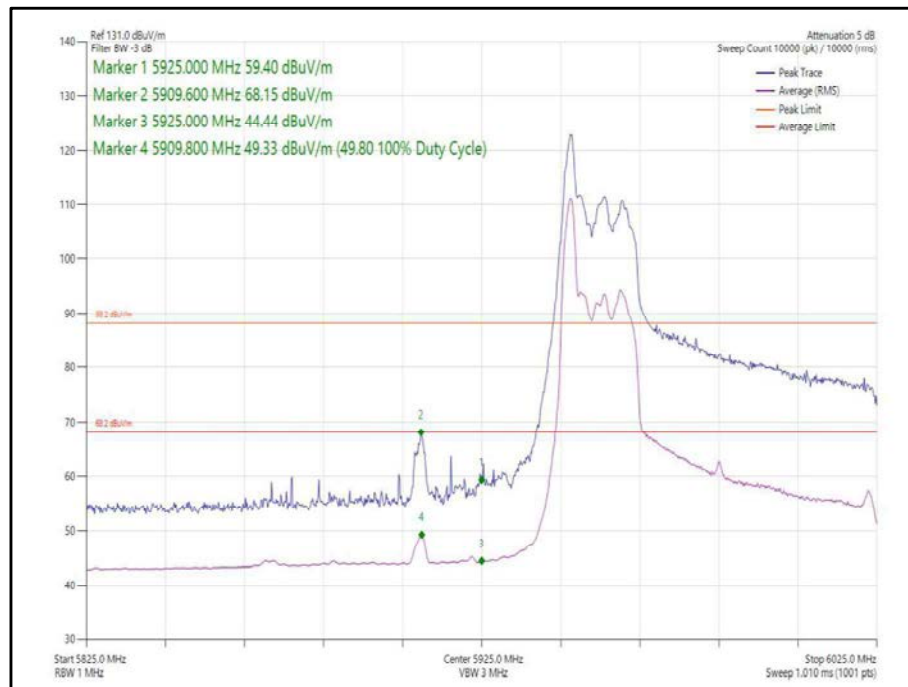
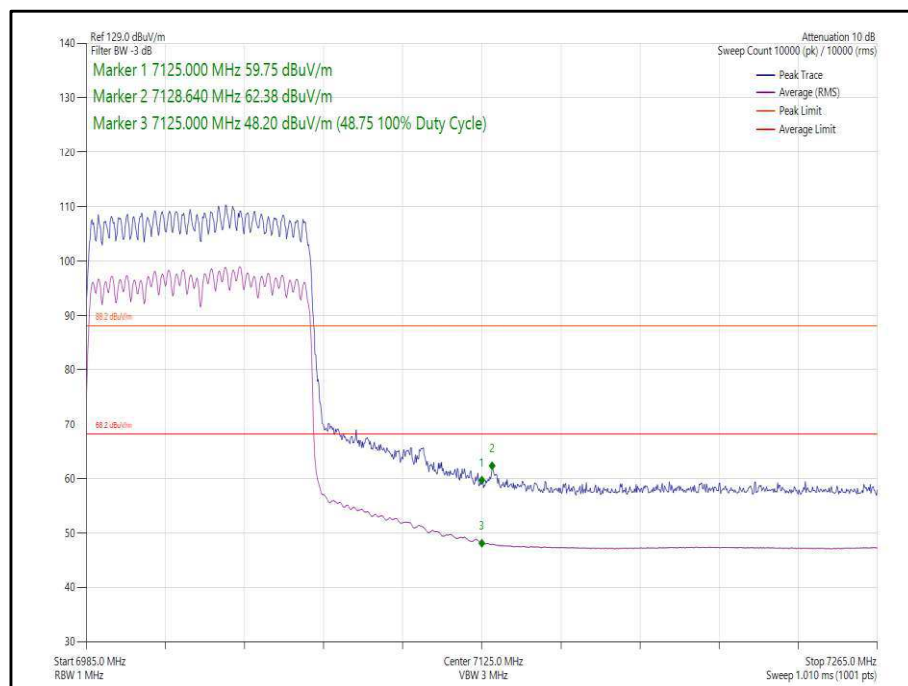


Figure 81 - 802.11ax, HE80, SU, CDD, Core 0-1 - 5985 MHz,
Band Edge Frequency 5925 MHz



**Figure 82 - 802.11ax, HE80, RU26-0, CDD, Core 0-1 - 5985 MHz,
Band Edge Frequency 5925 MHz**



**Figure 83 - 802.11ax, HE80, SU, CDD, Core 0-1 - 7025 MHz,
Band Edge Frequency 7125 MHz**

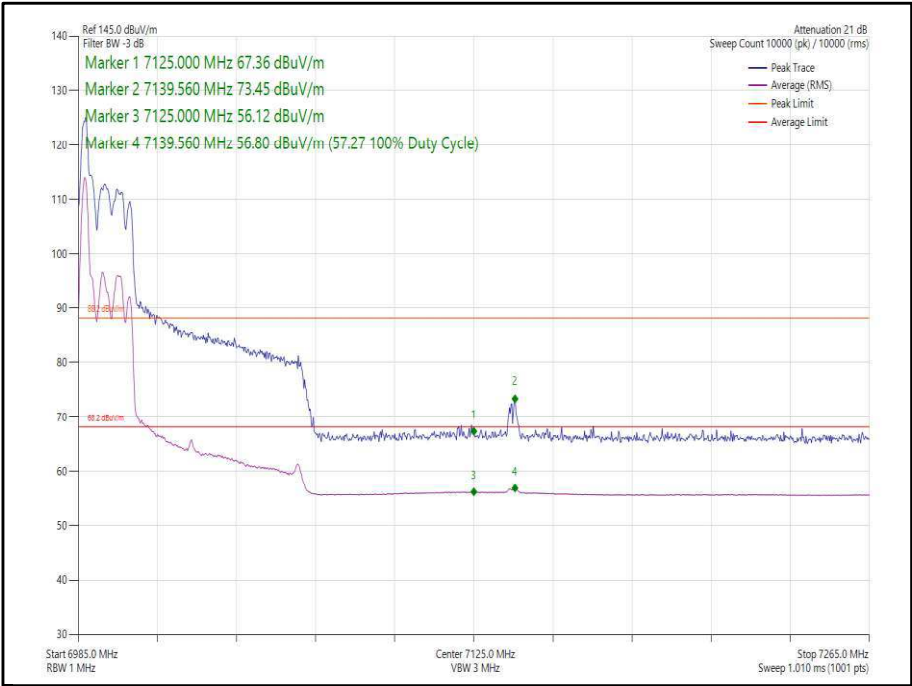


Figure 84 - 802.11ax, HE80, RU26-0, CDD, Core 0-1 - 7025 MHz,
Band Edge Frequency 7125 MHz



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 289 - SDM Authorised Band Edge Results

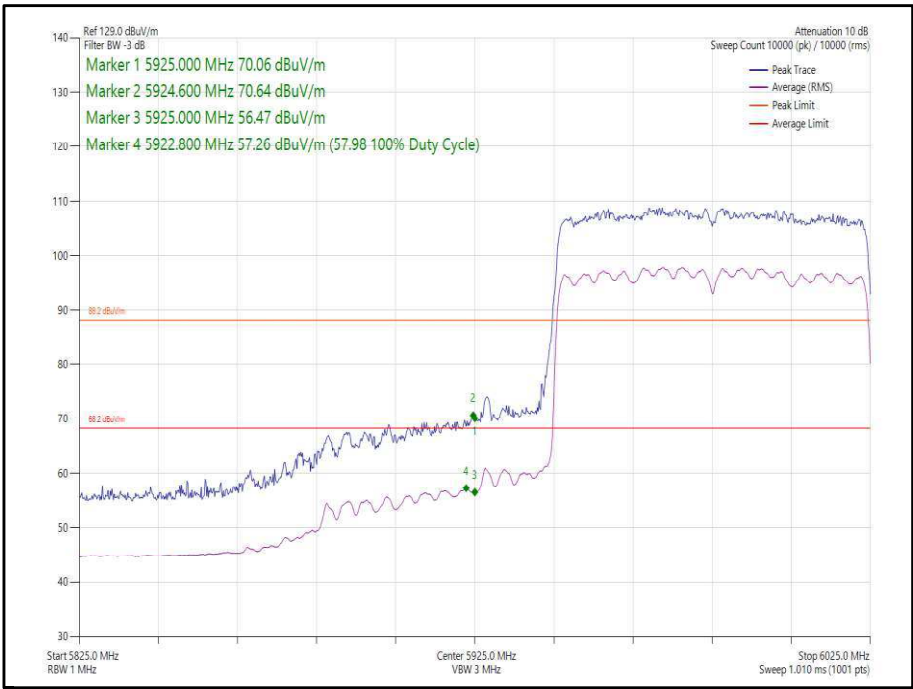


Figure 85 - 802.11ax, HE80, SU, SDM, Core 0-1 - 5985 MHz,
Band Edge Frequency 5925 MHz

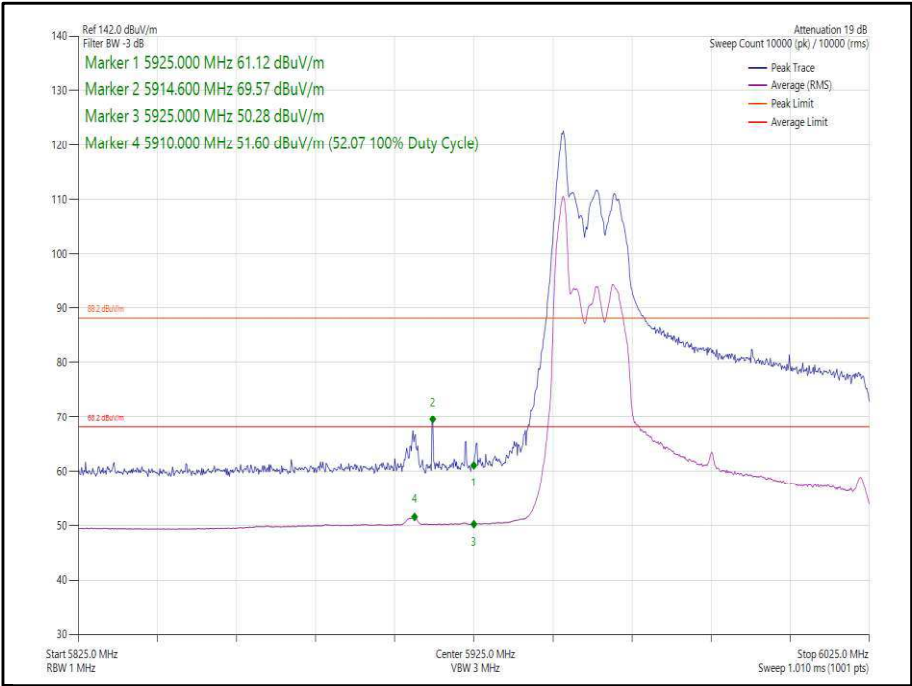


Figure 86 - 802.11ax, HE80, RU26-0, SDM, Core 0-1 - 5985 MHz,
Band Edge Frequency 5925 MHz

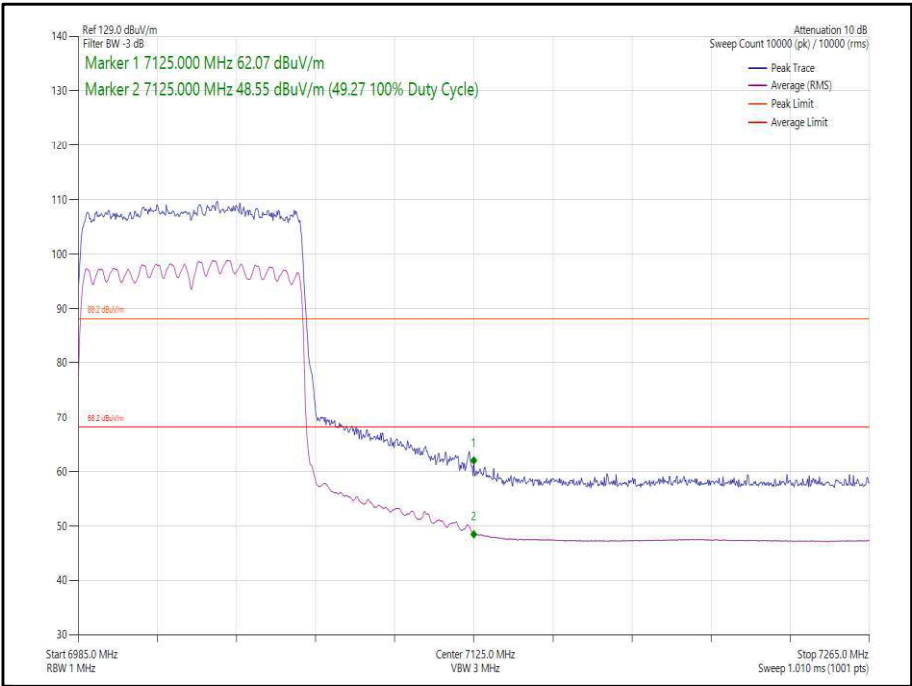


Figure 87 - 802.11ax, HE80, SU2, SDM, Core 0-1 - 7025 MHz,
Band Edge Frequency 7125 MHz

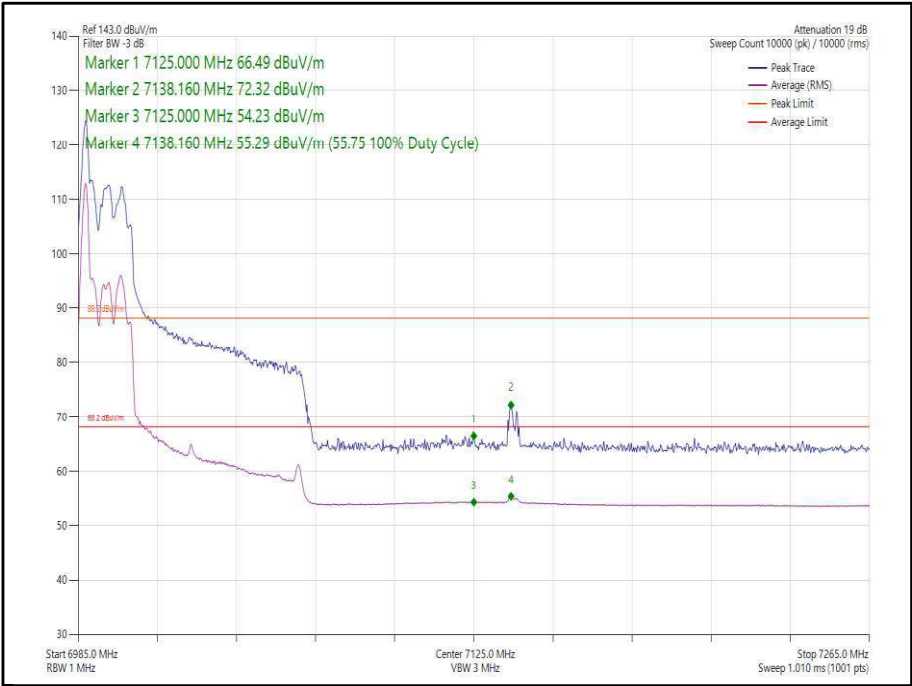


Figure 88 - 802.11ax, HE80, RU26-0, SDM, Core 0-1 - 7025 MHz,
Band Edge Frequency 7125 MHz



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 290 - TxBF Authorised Band Edge Results

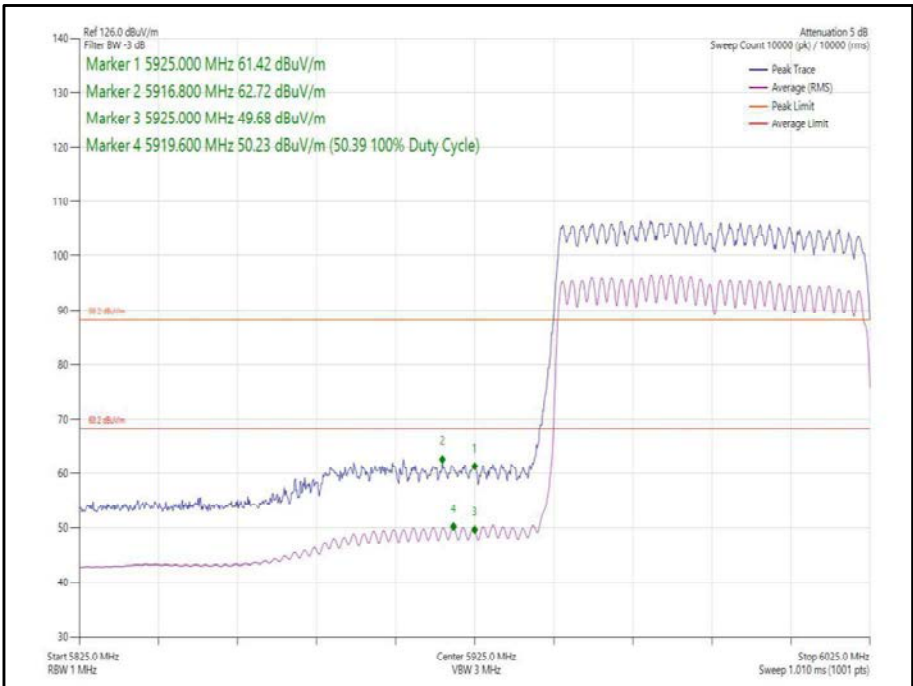
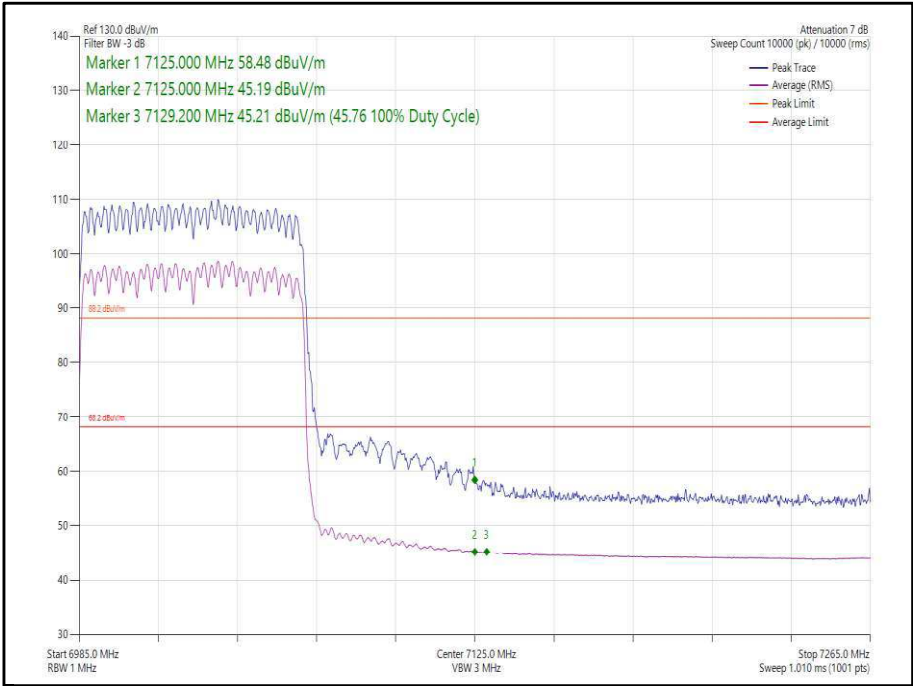


Figure 89 - 802.11ax, HE80, SU, TxBF, Core 0-1 - 5985 MHz,
Band Edge Frequency 5925 MHz



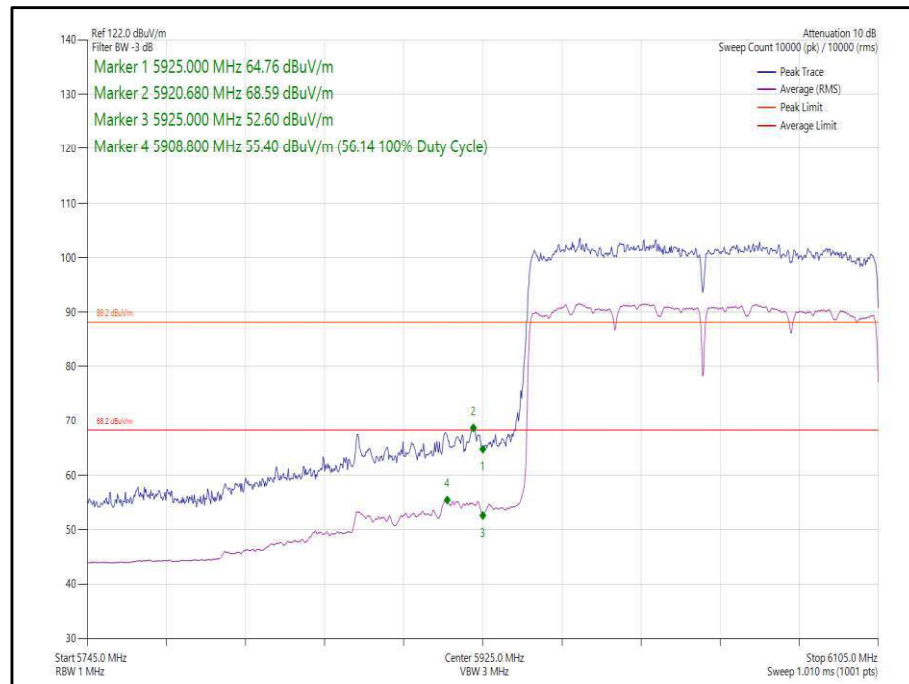
**Figure 90 - 802.11ax, HE80, SU, TxBF, Core 0-1 - 7025 MHz,
Band Edge Frequency 7125 MHz**



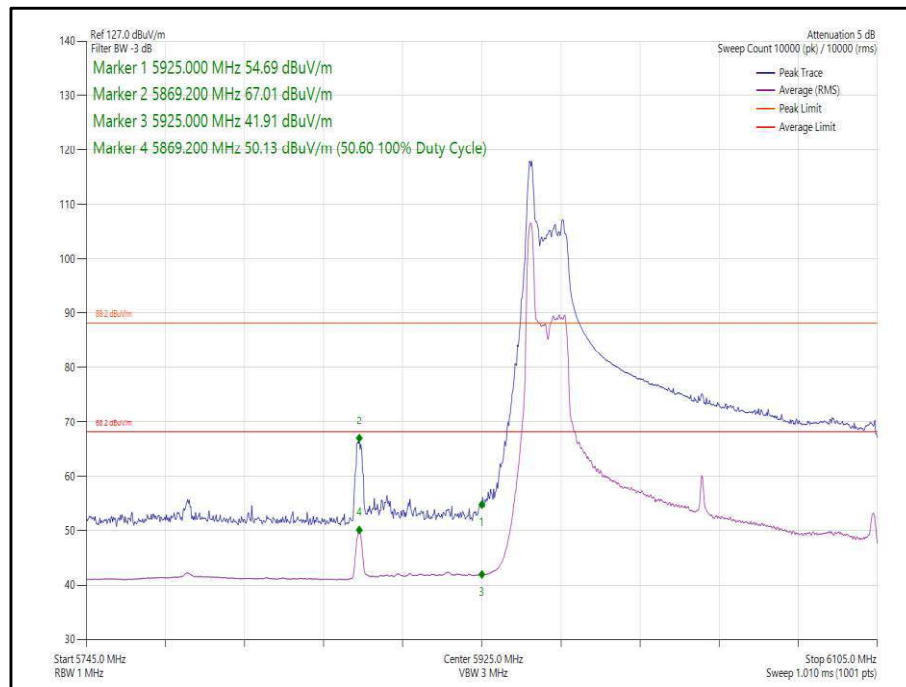
160 MHz Bandwidth - Core 0 (SISO)

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

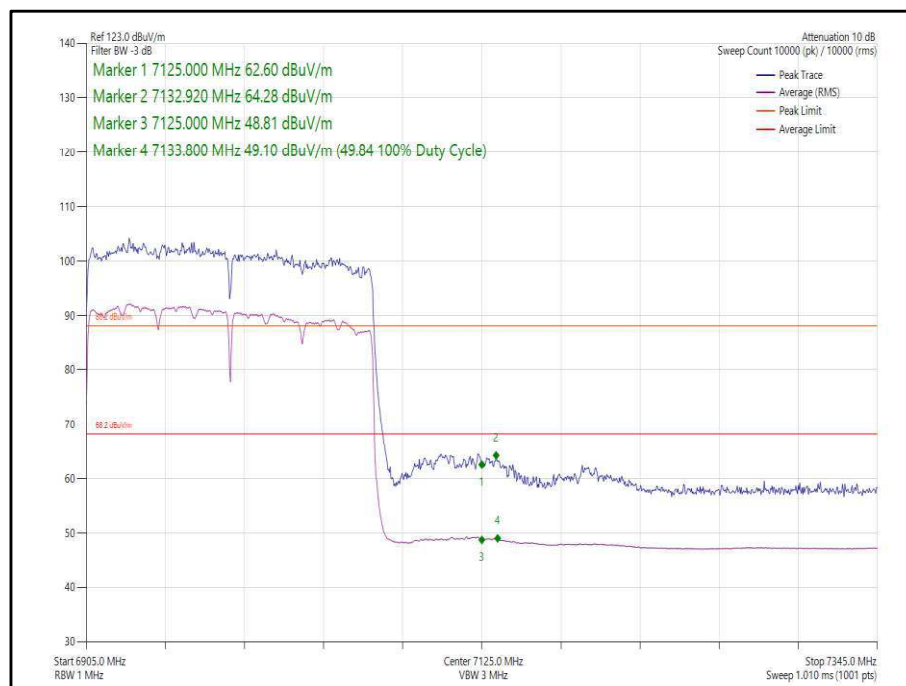
Table 291 - SISO Authorised Band Edge Results



**Figure 91 - 802.11ax, HE160, SU, SISO, Core 0 - 6025 MHz,
Band Edge Frequency 5925 MHz**



**Figure 92 - 802.11ax, HE160, RU26-0, SISO, Core 0 - 6025 MHz,
Band Edge Frequency 5925 MHz**



**Figure 93 - 802.11ax, HE160, SU, SISO, Core 0 - 6985 MHz,
Band Edge Frequency 7125 MHz**

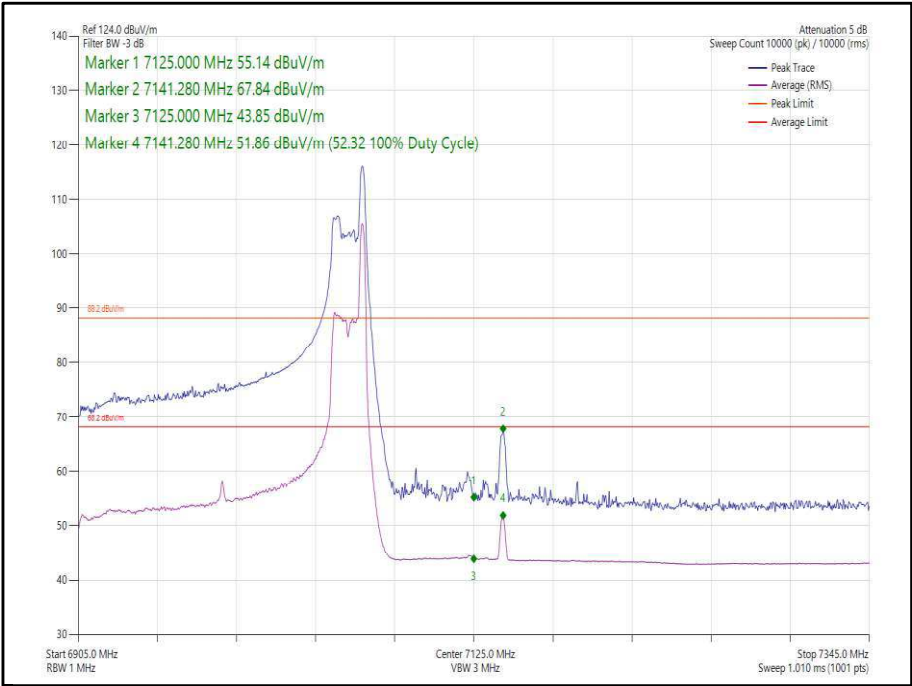


Figure 94 - 802.11ax, HE160, RU26-36, SISO, Core 0 - 6985 MHz,
Band Edge Frequency 7125 MHz

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 292 - SISO Authorised Band Edge Results

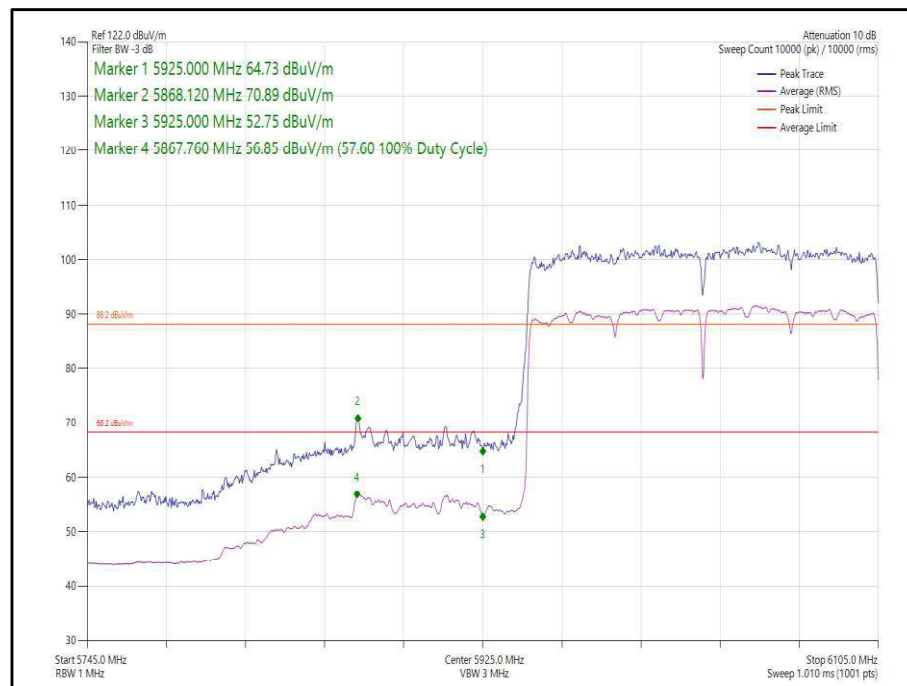
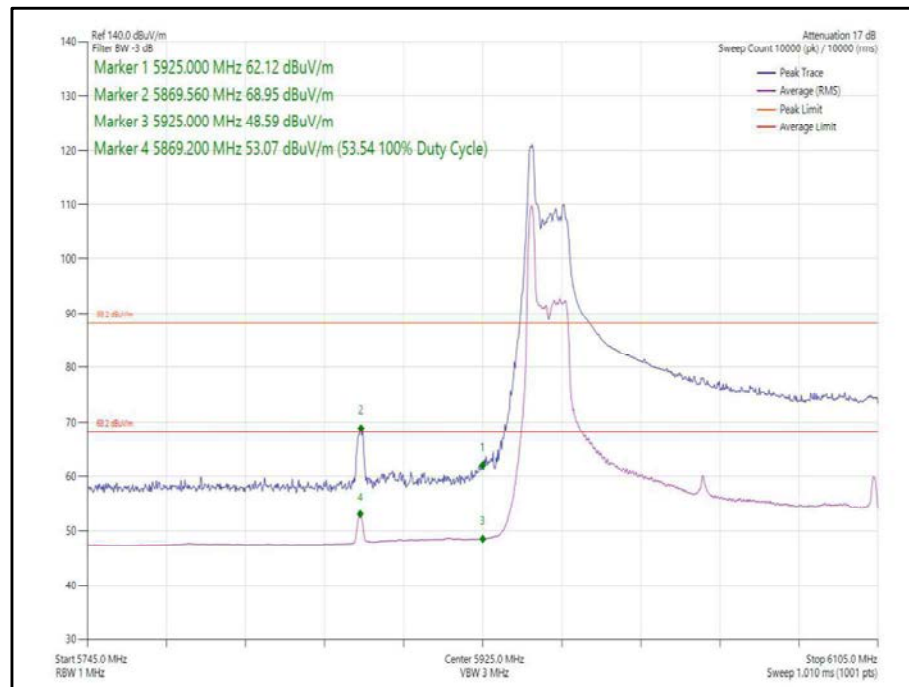
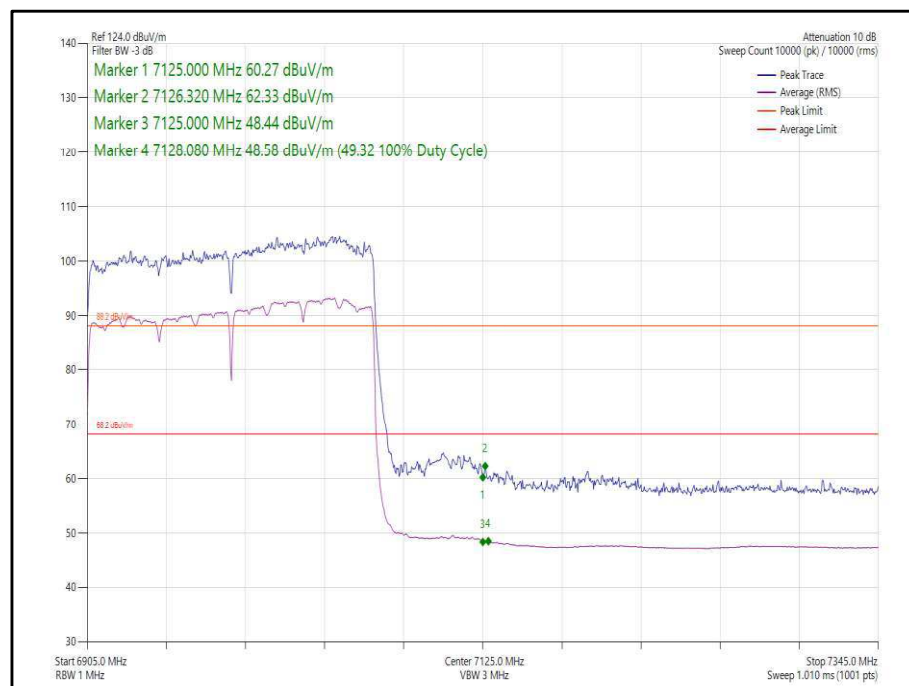


Figure 95 - 802.11ax, HE160, SU, SISO, Core 1 - 6025 MHz,
Band Edge Frequency 5925 MHz



**Figure 96 - 802.11ax, HE160, RU26-0, SISO, Core 1 - 6025 MHz,
Band Edge Frequency 5925 MHz**



**Figure 97 - 802.11ax, HE160, SU, SISO, Core 1 - 6985 MHz,
Band Edge Frequency 7125 MHz**

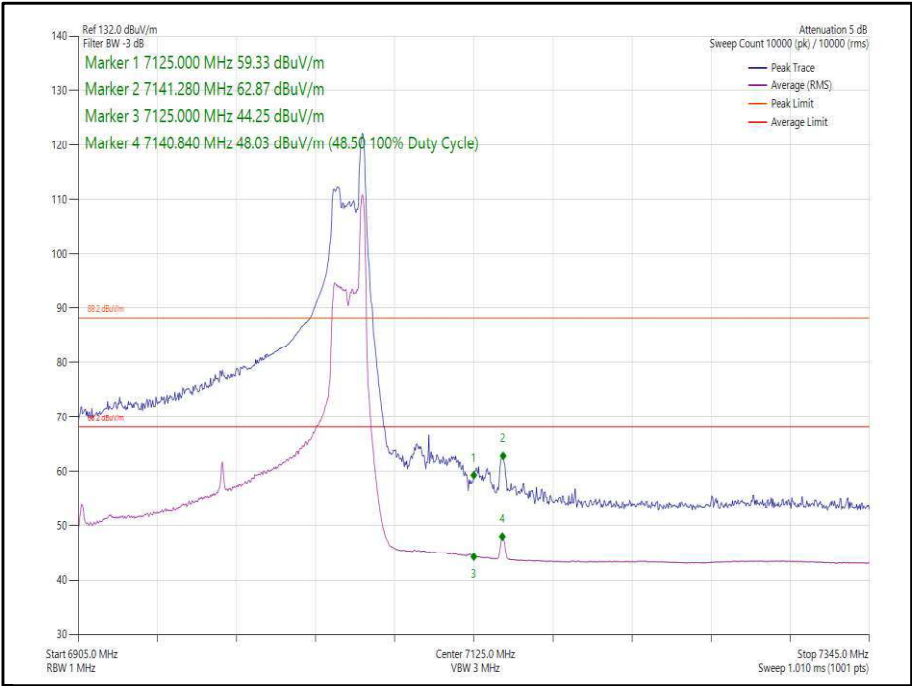
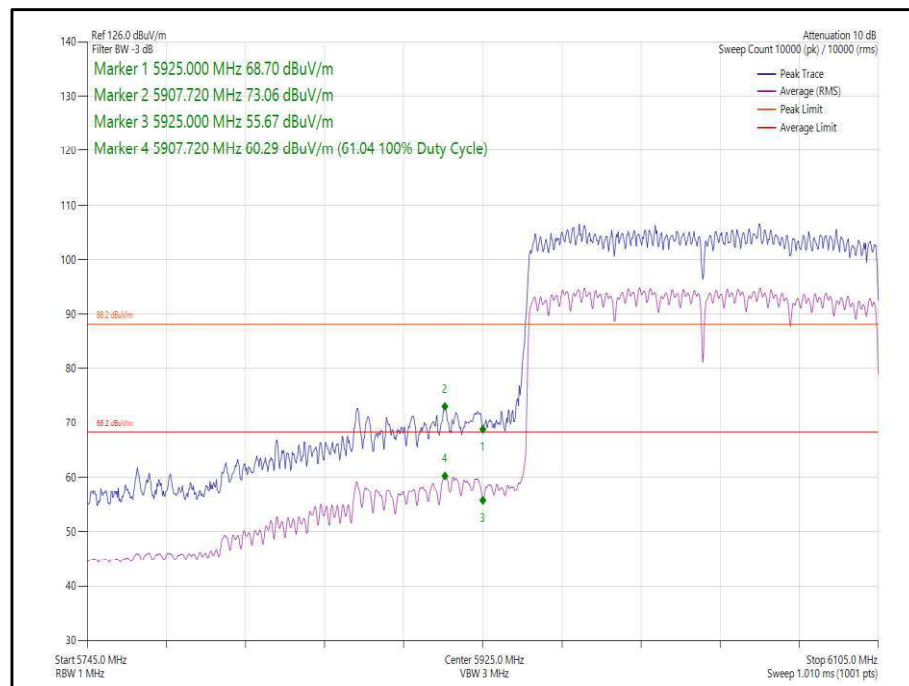


Figure 98 - 802.11ax, HE160, RU26-36, SISO, Core 1 - 6985 MHz,
Band Edge Frequency 7125 MHz

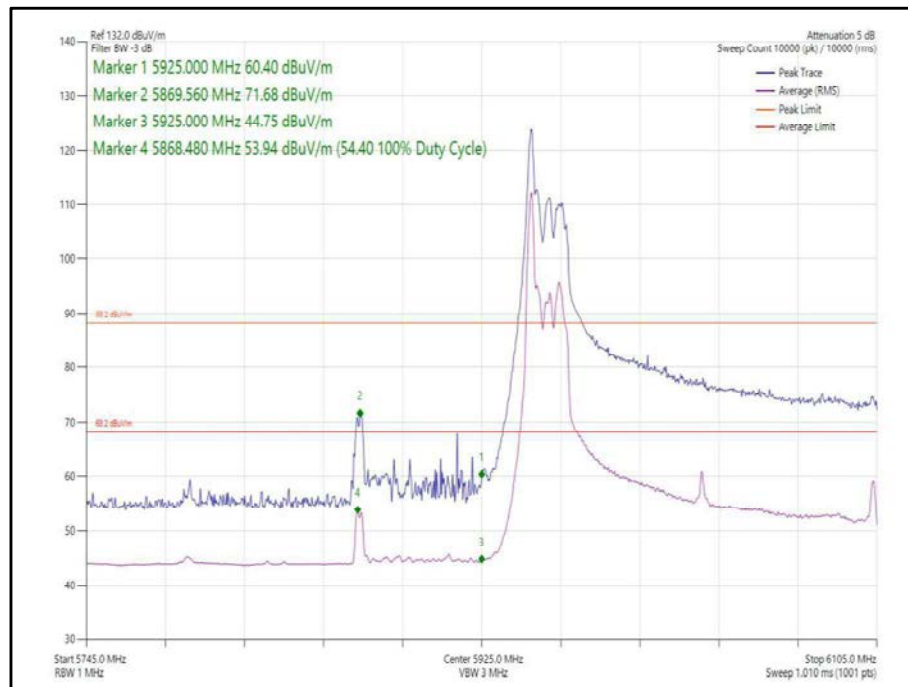
160 MHz Bandwidth - Core 0-1 (CDD)

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

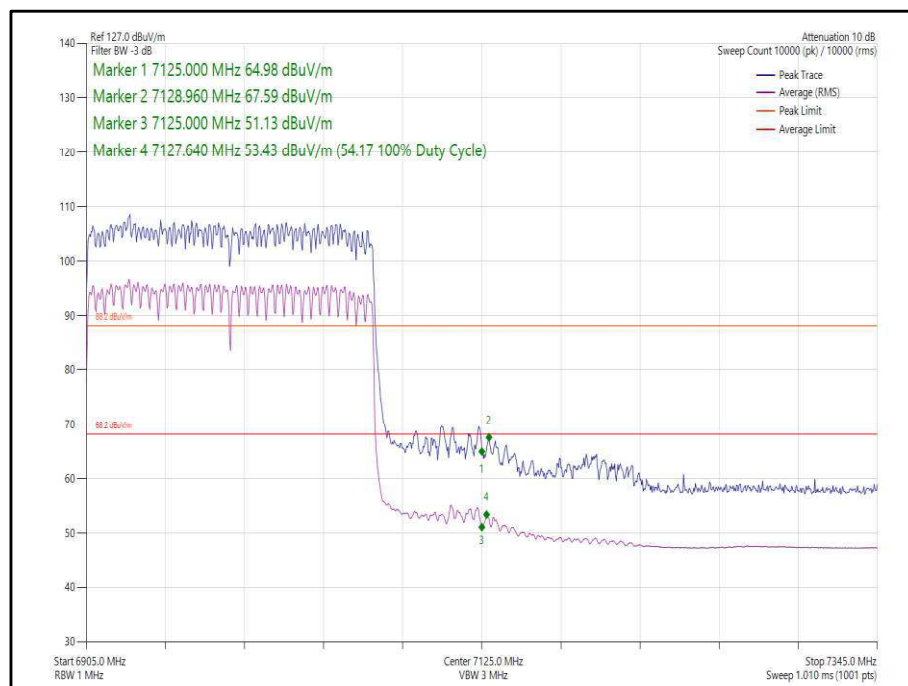
Table 293 - CDD Authorised Band Edge Results



**Figure 99 - 802.11ax, HE160, SU CDD, Core 0-1 - 6025 MHz,
Band Edge Frequency 5925 MHz**



**Figure 100 - 802.11ax, HE160, RU26-0, CDD, Core 0-1 - 6025 MHz,
Band Edge Frequency 5925 MHz**



**Figure 101 - 802.11ax, HE160, SU, CDD, Core 0-1 - 6985 MHz,
Band Edge Frequency 7125 MHz**

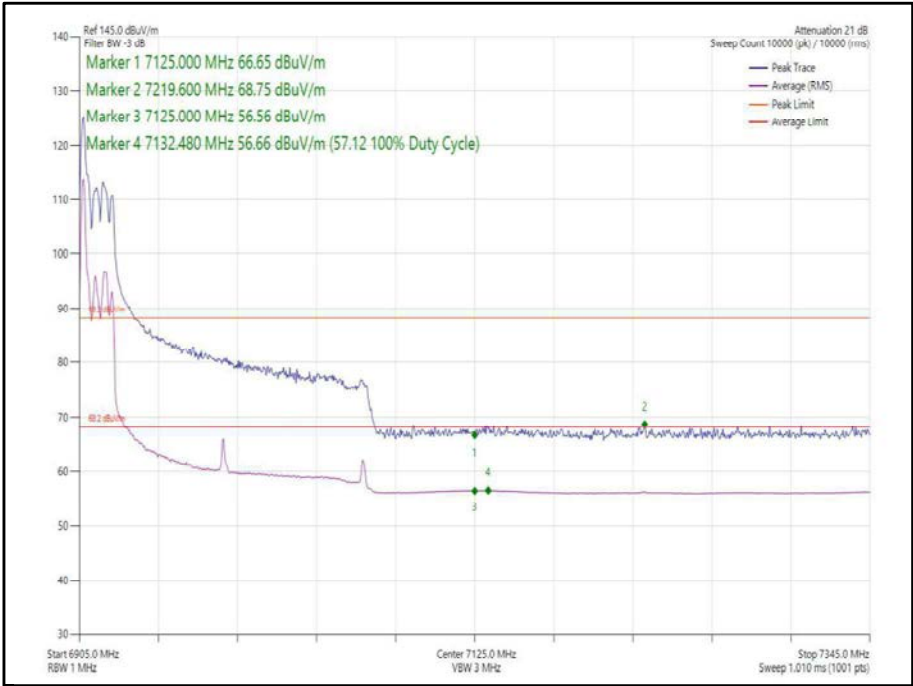


Figure 102 - 802.11ax, HE160, RU26-0, CDD, Core 0-1 - 6985 MHz,
Band Edge Frequency 7125 MHz



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 294 - SDM Authorised Band Edge Results

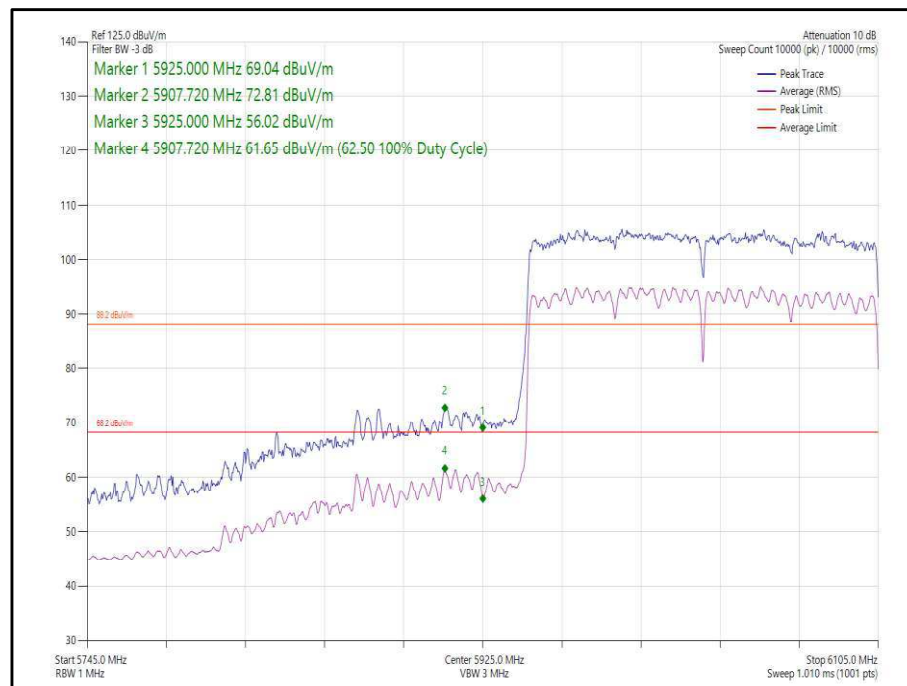
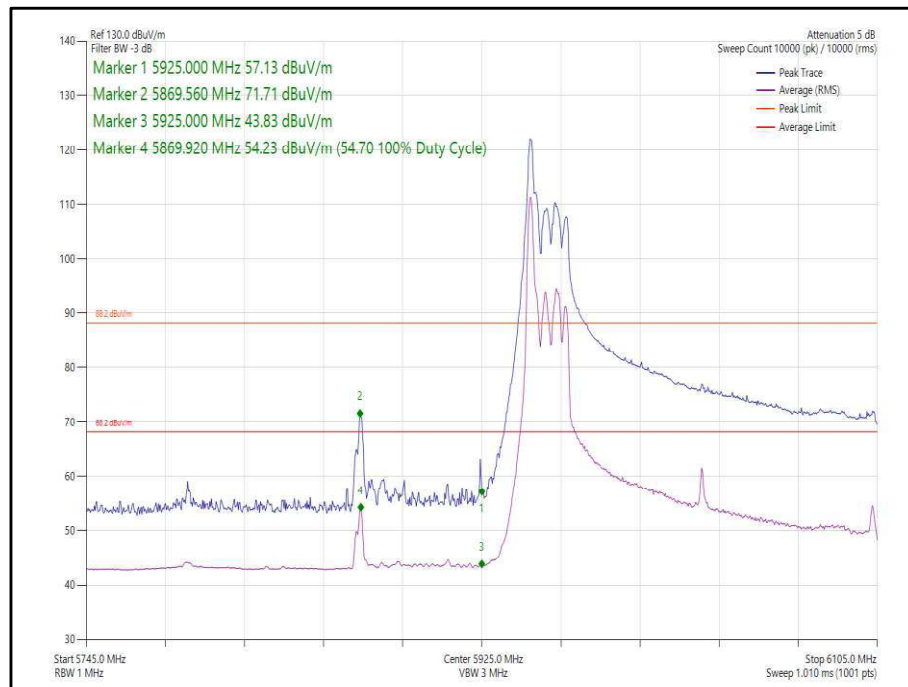
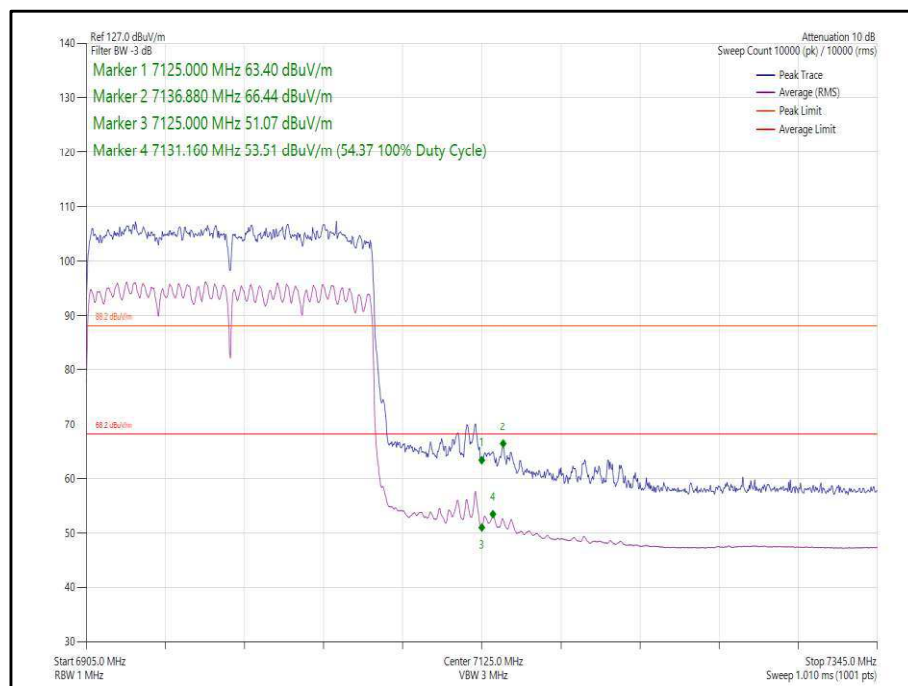


Figure 103 - 802.11ax, HE160, SU, SDM, Core 0-1 - 6025 MHz,
Band Edge Frequency 5925 MHz



**Figure 104 - 802.11ax, HE160, RU26-0, SDM, Core 0-1 - 6025 MHz,
Band Edge Frequency 5925 MHz**



**Figure 105 - 802.11ax, HE160, SU, SDM, Core 0-1 - 6985 MHz,
Band Edge Frequency 7125 MHz**

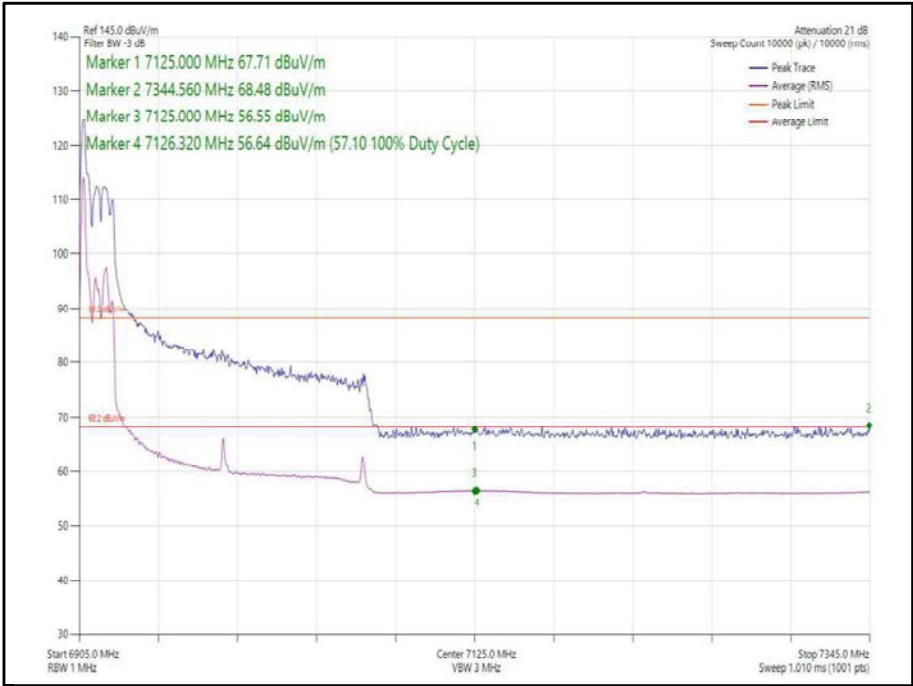


Figure 106 - 802.11ax, HE160, RU26-0, SDM, Core 0-1 - 6985 MHz,
Band Edge Frequency 7125 MHz



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 Expiry Date
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 295

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

A2787, S/N: GC220CG697 - Modification State 0

2.5.3 Date of Test

14-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	21.6 – 23.1 °C
Relative Humidity	27.1 - 33.1 %

2.5.6 Test Results

6 GHz WLAN

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11a	7.83	6418.700
802.11ax HE20 SU	6.86	7057.900
802.11ax HE40 SU	5.61	6595.800
802.11ax HE80 SU	6.78	5837.160
802.11ax HE160 SU	6.92	5773.500
802.11ax HE20 RU106	8.92	6401.900
802.11ax HE20 RU26	8.99	6378.600
802.11ax HE20 RU52	8.98	6000.000

Table 296 - Unwanted Emissions Within the RLAN Band Summary Results - SISO

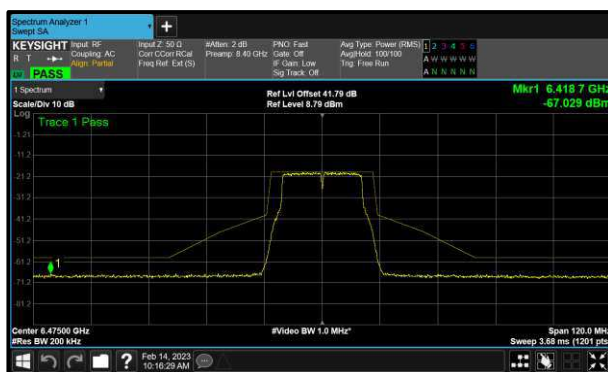


Figure 107 – A (Core 0) 802.11a 6475 MHz (CH105)

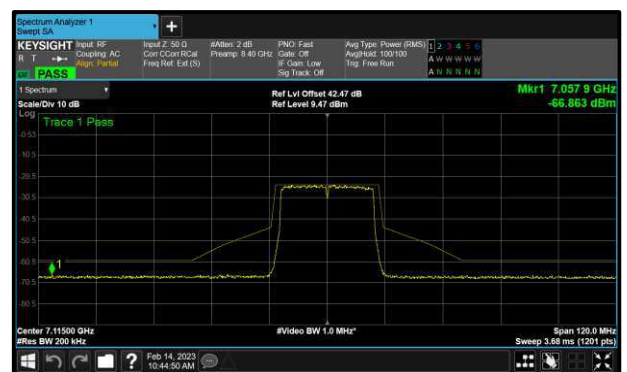


Figure 108 – A (Core 0) 802.11ax HE20 SU 7115 MHz (CH233)

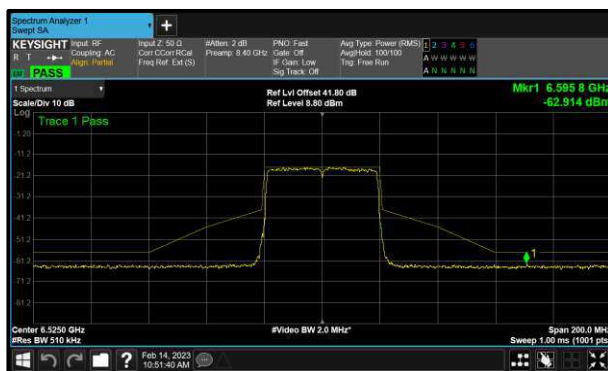


Figure 109 – A (Core 0) 802.11ax HE40 SU 6525 MHz (CH115)



Figure 110 – B (Core 1) 802.11ax HE80 SU 5985 MHz (CH7)



Figure 111 – B (Core 1) 802.11ax HE160
SU 6025 MHz (CH15)



Figure 112 – A (Core 0) 802.11ax HE20
RU106 6435 MHz (CH97)



Figure 113 – A (Core 0) 802.11ax HE20
RU26 6435 MHz (CH97)

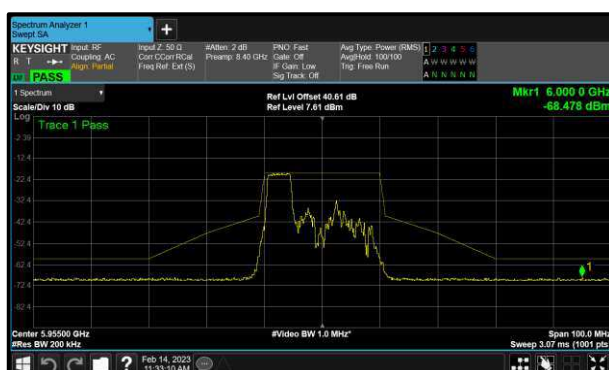


Figure 114 – B (Core 1) 802.11ax HE20
RU52 5955 MHz (CH1)

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 SU	7.15	6383.000
802.11ax HE40 SU	3.32	5875.600
802.11ax HE80 SU	0.39	5808.600
802.11ax HE160 SU	2.20	5727.000
802.11ax HE20 RU106	7.19	6448.600
802.11ax HE20 RU52	13.27	7043.900

Table 297 - Unwanted Emissions Within the RLAN Band Summary Results - MIMO CDD

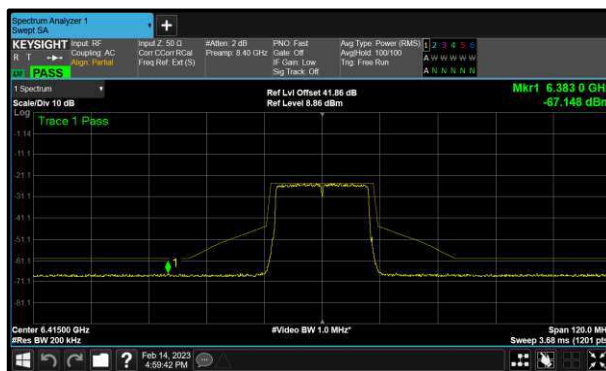


Figure 115 – A (Core 0) 802.11ax HE20 SU 6415 MHz (CH93)

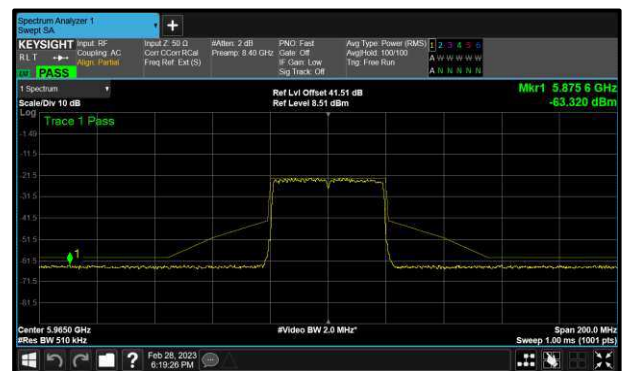


Figure 116 – A (Core 0) 802.11ax HE40 SU 5965 MHz (CH3)



Figure 117 – A (Core 0) 802.11ax HE80
SU 5985 MHz (CH7)



Figure 118 – A (Core 0) 802.11ax HE160
SU 6025 MHz (CH15)

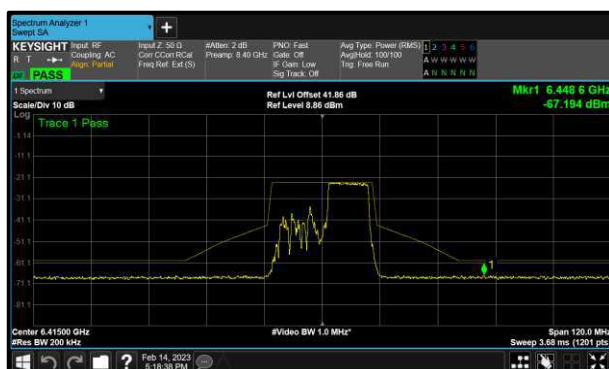


Figure 119 – C (Core 0) 802.11ax HE20
RU106 7095 MHz (CH229)

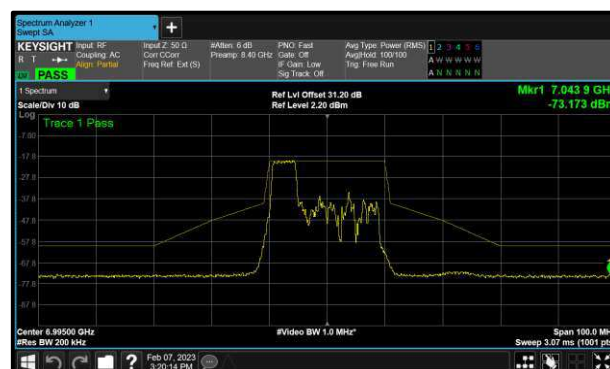


Figure 120 – C (Core 0) 802.11ax HE20
RU52 6995 MHz (CH209)

Protocol	Unwanted Emissions Within the RLAN Band	
	Margin (dB)	Frequency (MHz)
802.11ax HE20 SU	7.06	6471.300
802.11ax HE40 SU	3.32	6036.280
802.11ax HE80 SU	1.48	5844.720
802.11ax HE160 SU	4.09	5656.000
802.11ax HE20 RU106	7.09	6472.700
802.11ax HE20 RU26	15.30	6953.000
802.11ax HE20 RU52	6.67	6467.300

Table 298 - Unwanted Emissions Within the RLAN Band Summary Results – MIMO SDM



Figure 121 – A (Core 0) 802.11ax HE20 SU 6415 MHz (CH93)

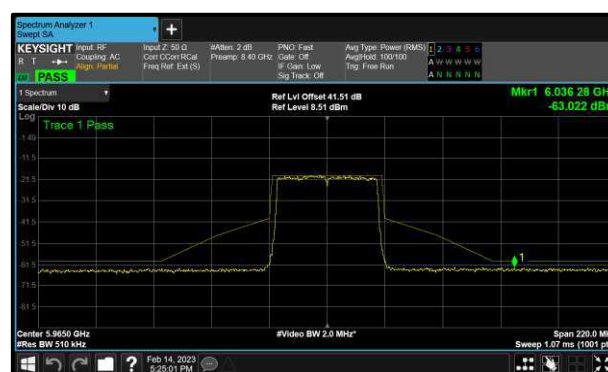


Figure 122 – A (Core 0) 802.11ax HE40 SU 5965 MHz (CH3)



Figure 123 – A (Core 0) 802.11ax HE80 SU 5985 MHz (CH7)

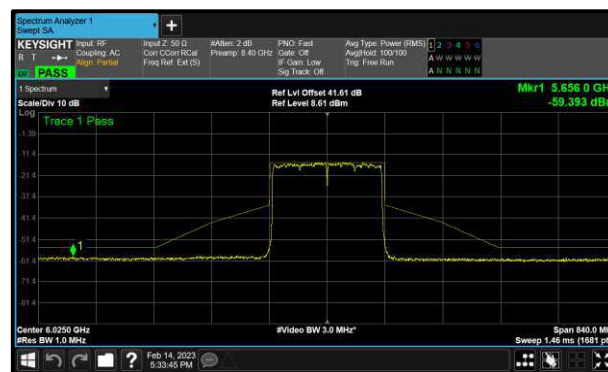


Figure 124 – A (Core 0) 802.11ax HE160 SU 6025 MHz (CH15)



Figure 125 – C (Core 0) 802.11ax HE20
RU106 6515 MHz (CH113)

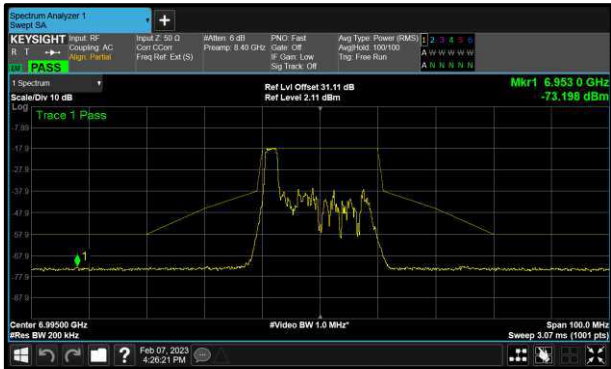


Figure 126 – D (Core 1) 802.11ax HE20
RU26 6995 MHz (CH209)



Figure 127 – D (Core 1) 802.11ax HE20
RU52 6855 MHz (CH181)



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	-	8.27	-	-
6175	9.17	-	-	-
6415	8.91	-	-	-
6435	8.18	-	-	-
6475	7.83	-	-	-
6515	8.18	-	-	-
6535	-	9.60	-	-
6695	-	8.10	-	-
6855	-	8.37	-	-
6875	9.46	9.94	-	-
6895	7.92	-	-	-
6995	8.72	-	-	-
7115	10.52	-	-	-

Table 299 - 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	-	8.53	-	-
6175	8.89	-	-	-
6415	8.91	-	-	-
6435	7.70	-	-	-
6475	7.83	-	-	-
6515	8.12	-	-	-
6535	-	8.64	-	-
6695	-	7.99	-	-
6855	-	8.27	-	-
6875	9.26	9.40	-	-
6895	8.20	-	-	-
6995	8.79	-	-	-
7115	6.86	-	-	-

Table 300 - 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	-	5.89	-	-
6165	8.03	-	-	-
6405	8.70	-	-	-
6445	5.98	-	-	-
6485	5.81	-	-	-
6525	7.18	6.83	-	-
6565	-	8.28	-	-
6685	-	8.57	-	-
6845	-	8.38	-	-
6885	9.44	10.10	-	-
6925	9.98	-	-	-
7005	9.55	-	-	-
7085	10.05	-	-	-

Table 301 - 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	-	6.78	-	-
6145	7.71	-	-	-
6385	8.50	-	-	-
6465	7.62	-	-	-
6545	8.50	8.72	-	-
6625	-	8.45	-	-
6705	-	8.93	-	-
6785	-	8.77	-	-
6865	9.53	9.03	-	-
6945	9.44	-	-	-
7025	9.83	-	-	-

Table 302 - 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	-	6.92	-	-
6185	8.29	-	-	-
6345	8.89	-	-	-
6505	9.23	10.04	-	-
6665	-	9.46	-	-
6825	9.95	7.78	-	-
6985	10.57	-	-	-

Table 303 - 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
6115 (RU26.0)	9.32	-	-	-
6255 (RU26.0)	9.84	-	-	-
6415 (RU26.8)	10.09	-	-	-
6435 (RU26.0)	8.99	-	-	-
6475 (RU26.0)	9.27	-	-	-
6515 (RU26.8)	9.20	-	-	-
6535 (RU26.0)	-	10.45	-	-
6695 (RU26.0)	-	9.95	-	-
6855 (RU26.8)	-	9.63	-	-
6875 (RU26.3)	-	9.68	-	-
6875 (RU26.5)	9.24	-	-	-
6895 (RU26.0)	10.70	-	-	-
6995 (RU26.0)	10.86	-	-	-
7095 (RU26.8)	10.99	-	-	-

Table 304 - 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)	-	8.98	-	-
6175 (RU52.37)	9.60	-	-	-
6415 (RU52.40)	9.82	-	-	-
6435 (RU52.37)	9.07	-	-	-
6475 (RU52.37)	8.98	-	-	-
6515 (RU52.40)	9.02	-	-	-
6535 (RU52.37)	-	10.55	-	-
6695 (RU52.37)	-	10.55	-	-
6855 (RU52.40)	-	10.05	-	-
6875 (RU52.38)	-	9.61	-	-
6875 (RU52.39)	8.86	-	-	-
6895 (RU52.37)	11.36	-	-	-
6995 (RU52.37)	11.42	-	-	-
7095 (RU52.40)	11.35	-	-	-

Table 305 - 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)	-	9.35	-	-
6175 (RU106.53)	9.61	-	-	-
6415 (RU106.54)	9.99	-	-	-
6435 (RU106.53)	8.92	-	-	-
6475 (RU106.53)	9.27	-	-	-
6515 (RU106.54)	8.95	-	-	-
6535 (RU106.53)	-	10.48	-	-
6695 (RU106.53)	-	9.98	-	-
6855 (RU106.54)	-	9.88	-	-
6875 (RU106.53)	-	9.78	-	-
6875 (RU106.54)	9.39	-	-	-
6895 (RU106.53)	11.16	-	-	-
6995 (RU106.53)	11.25	-	-	-
7095 (RU106.54)	11.37	-	-	-

Table 306 - 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) 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
5955	7.50	8.40	-	-
6175	7.75	8.23	-	-
6415	7.15	7.49	-	-
6435	-	-	13.46	13.10
6475	-	-	13.35	13.69
6515	-	-	13.80	13.57
6535	-	-	13.81	13.40
6695	-	-	13.46	13.30
6855	-	-	13.15	13.25
6875	-	-	13.35	13.48
6895	-	-	12.93	12.98
6995	-	-	12.58	12.97
7115	-	-	12.66	12.96

Table 307 - 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) 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
5965	3.32	4.28	-	-
6165	2.99	3.55	-	-
6405	3.15	3.36	-	-
6445	-	-	9.25	9.28
6485	-	-	10.09	9.43
6525	-	-	9.59	9.32
6565	-	-	10.17	9.23
6685	-	-	10.42	9.24
6845	-	-	9.32	9.03
6885	-	-	9.60	9.48
6925	-	-	11.74	10.71
7005	-	-	11.42	10.06
7085	-	-	11.35	9.65

Table 308 - 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) 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	0.39	1.19	-	-
6145	2.24	2.82	-	-
6385	2.73	2.71	-	-
6465	-	-	8.32	8.43
6545	-	-	8.38	8.28
6625	-	-	7.50	7.36
6705	-	-	7.22	7.34
6785	-	-	7.07	7.15
6865	-	-	7.87	8.23
6945	-	-	11.11	11.52
7025	-	-	10.76	10.95

Table 309 - 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) 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
6025	2.20	3.30	-	-
6185	3.35	3.79	-	-
6345	4.25	4.57	-	-
6505	-	-	8.62	9.67
6665	-	-	6.00	8.62
6825	-	-	7.90	8.26
6985	-	-	8.54	9.75

Table 310 - 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):	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
6895 (RU52.37)	-	-	13.67	13.54
6995 (RU52.37)	-	-	13.27	13.32
7095 (RU52.37)	-	-	13.42	13.57

Table 311 - 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) 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
6115 (RU106.53)	7.52	8.28	-	-
6275 (RU106.53)	7.28	7.96	-	-
6415 (RU106.54)	7.19	7.51	-	-
6435 (RU106.53)	-	-	13.44	13.32
6475 (RU106.53)	-	-	13.91	13.83
6515 (RU106.53)	-	-	13.94	13.64
6535 (RU106.53)	-	-	13.93	13.62
6695 (RU106.53)	-	-	13.60	13.69
6855 (RU106.53)	-	-	13.42	13.44
6875 (RU106.53)	-	-	13.29	13.41
6895 (RU106.53)	-	-	13.46	13.66
6995 (RU106.53)	-	-	13.11	13.15
7095 (RU106.53)	-	-	12.97	13.28

Table 312 - 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) 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
5955	7.66	8.42	-	-
6175	7.60	8.38	-	-
6415	7.06	7.50	-	-
6435	-	-	13.27	13.11
6475	-	-	13.66	13.44
6515	-	-	13.65	13.06
6535	-	-	13.32	13.98
6695	-	-	13.71	13.01
6855	-	-	12.90	13.28
6875	-	-	13.02	13.38
6895	-	-	14.32	14.03
6995	-	-	14.57	13.69
7115	-	-	12.79	13.14

Table 313 - 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) 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
5965	3.32	3.94	-	-
6165	5.39	4.97	-	-
6405	5.81	5.38	-	-
6445	-	-	12.13	11.70
6485	-	-	12.13	11.52
6525	-	-	11.80	10.92
6565	-	-	11.81	11.10
6685	-	-	11.15	10.17
6845	-	-	10.86	11.08
6885	-	-	11.52	11.36
6925	-	-	11.41	11.32
7005	-	-	11.00	11.51
7085	-	-	11.15	10.90

Table 314 - 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) 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	1.48	2.67	-	-
6145	4.93	5.80	-	-
6385	6.46	6.63	-	-
6465	-	-	10.99	11.65
6545	-	-	11.34	11.20
6625	-	-	11.10	11.17
6705	-	-	9.22	11.45
6785	-	-	11.37	11.38
6865	-	-	11.65	12.20
6945	-	-	10.83	11.35
7025	-	-	10.23	10.19

Table 315 - 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) 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
6025	4.09	4.40	-	-
6185	6.05	6.44	-	-
6345	6.79	7.02	-	-
6505	-	-	8.97	6.95
6665	-	-	7.14	7.23
6825	-	-	8.45	7.29
6985	-	-	8.14	8.09

Table 316 - 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):	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
6895 (RU26.0)	-	-	15.75	16.59
6995 (RU26.0)	-	-	16.22	15.30
7095 (RU26.0)	-	-	15.93	16.18

Table 317 - 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) 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
6115 (RU52.37)	7.34	8.00	-	-
6275 (RU52.37)	6.94	7.74	-	-
6415 (RU52.40)	6.67	7.75	-	-
6435 (RU52.37)	-	-	13.56	14.18
6475 (RU52.37)	-	-	13.67	14.65
6515 (RU52.37)	-	-	14.07	14.41
6535 (RU52.37)	-	-	13.99	14.72
6695 (RU52.37)	-	-	14.68	14.32
6855 (RU52.37)	-	-	13.94	13.53
6875 (RU52.37)	-	-	13.76	13.82
6895 (RU52.37)	-	-	16.34	16.25
6995 (RU52.37)	-	-	16.12	16.04
7095 (RU52.37)	-	-	15.81	15.92

Table 318 - 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) 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
5955 (RU106.53)	7.46	8.60	-	-
6175 (RU106.53)	7.44	8.01	-	-
6415 (RU106.54)	7.09	7.79	-	-
6435 (RU106.53)	-	-	13.45	14.23
6475 (RU106.53)	-	-	13.73	13.66
6515 (RU106.53)	-	-	13.27	14.02
6535 (RU106.53)	-	-	14.57	14.86
6695 (RU106.53)	-	-	14.36	14.63
6855 (RU106.53)	-	-	13.76	13.61
6875 (RU106.53)	-	-	13.59	14.07
6895 (RU106.53)	-	-	16.17	16.06
6995 (RU106.53)	-	-	15.77	15.05
7095 (RU106.53)	-	-	15.95	16.09

Table 319 - Unwanted Emissions Within the Band Results

Test Configuration			
Frequency Range:	6.875 – 7.125 GHz	Band:	U-NII-8
Limit Clause(s):	15.407(b)	Test Method(s):	KDB 987594 D02 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):	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
6945	-	-	2.16	1.73
7025	-	-	1.76	1.64

Table 320 - Unwanted Emissions Within the Band Results



Figure 128 - C (Core 0) 802.11ax HE80 SU 6945 MHz (CH199)



Figure 129 - D (Core 1) 802.11ax HE80 SU 6945 MHz (CH199)



Figure 130 - C (Core 0) 802.11ax HE80 SU 7025 MHz (CH215)



Figure 131 - D (Core 1) 802.11ax HE80 SU 7025 MHz (CH215)



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
1500VA AC Power Supply	iTech	IT7324	5907	-	O/P Mon
Signal Analyser	Keysight Technologies	N9020B	5919	24	13-Mar-2024
Signal Conditioning Unit	TUV SUD	SPECTRUM SCU003	5932	12	10-May-2023
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 321

O/P Mon – Output Monitored using calibrated equipment



2.6 Spurious Radiated Emissions

2.6.1 Specification Reference

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

2.6.2 Equipment Under Test and Modification State

A2787, S/N: C2VL734Q54 - Modification State 0

2.6.3 Date of Test

07-February-2023 to 10-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 channel 45 (6175 MHz), 105 (6475 MHz), 149 (6695 MHz) and 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 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

2.6.7 Test Results

6 GHz WLAN

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
15999.995	37.21	54.00	-16.79	RMS	328	192	Horizontal

Table 322 - U-NII-5 - 5955 MHz (CH1), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

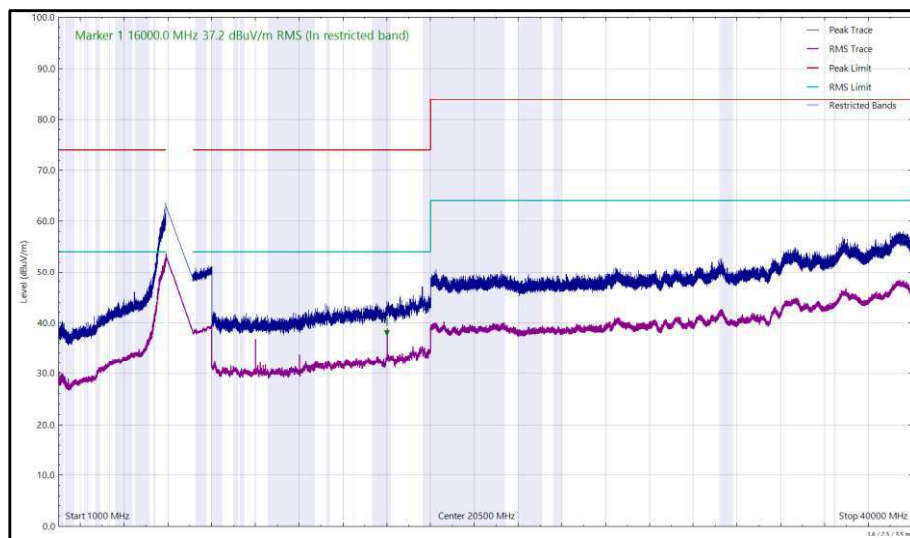


Figure 133 - U-NII-5 - 5955 MHz (CH1), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

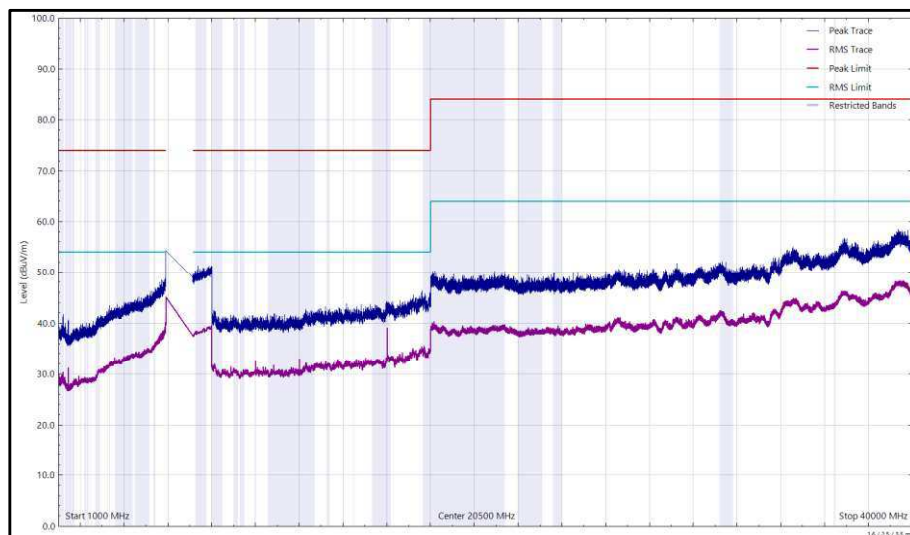


Figure 134 - U-NII-5 - 5955 MHz (CH1), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
8233.263	39.00	54.00	-15.00	RMS	281	170	Horizontal
15999.975	39.66	54.00	-14.34	RMS	326	185	Horizontal
16000.040	37.15	54.00	-16.85	RMS	324	145	Vertical

Table 323 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

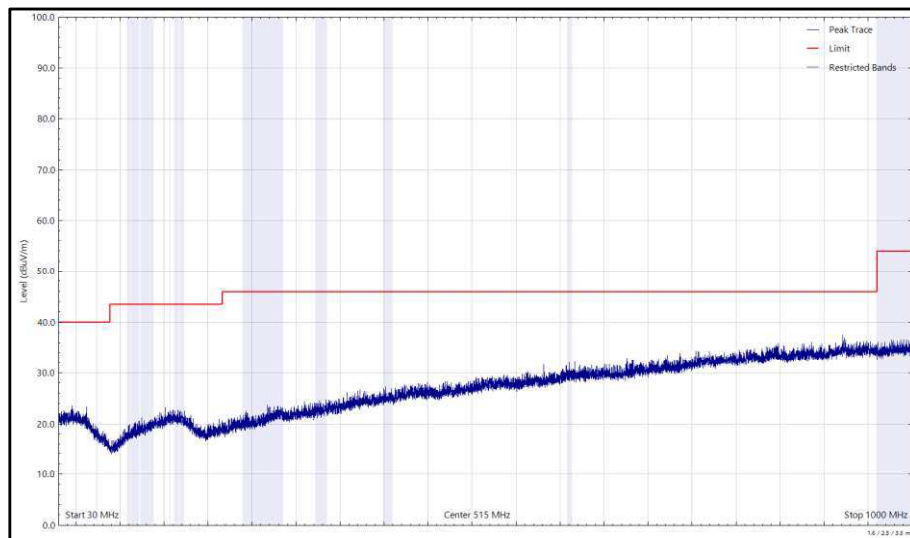


Figure 135 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

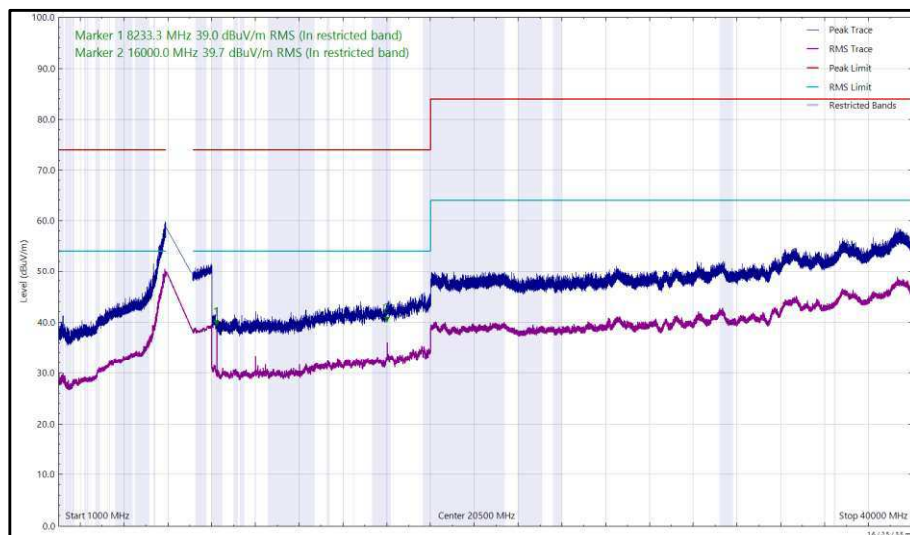


Figure 136 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

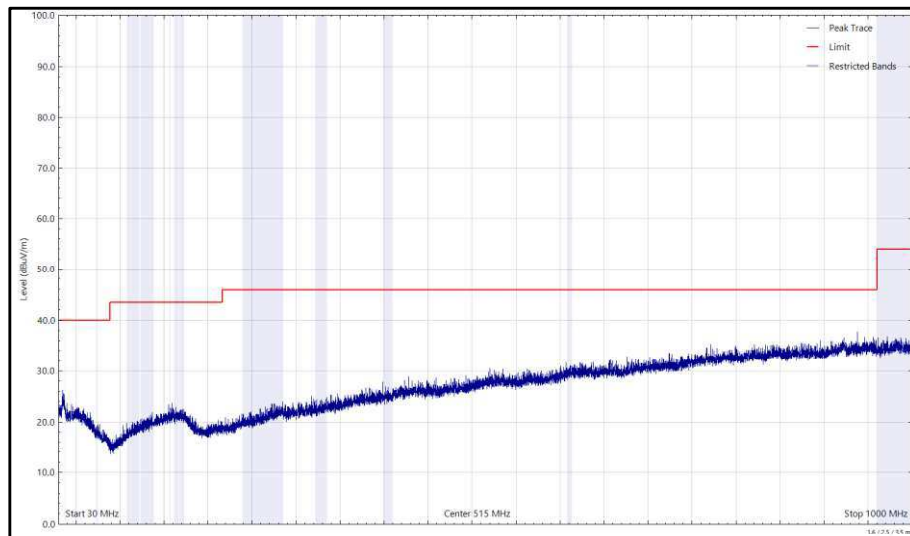


Figure 137 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

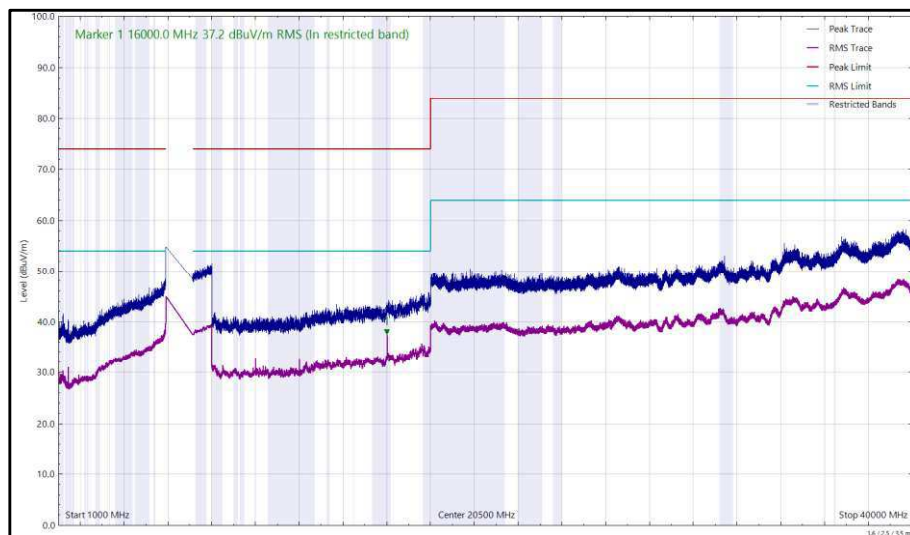


Figure 138 - U-NII-5 - 6175 MHz (CH45), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
16000.060	38.09	54.00	-15.91	RMS	325	176	Vertical
16000.065	37.61	54.00	-16.39	RMS	328	179	Horizontal

Table 324 - U-NII-5 - 6415 MHz (CH93), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

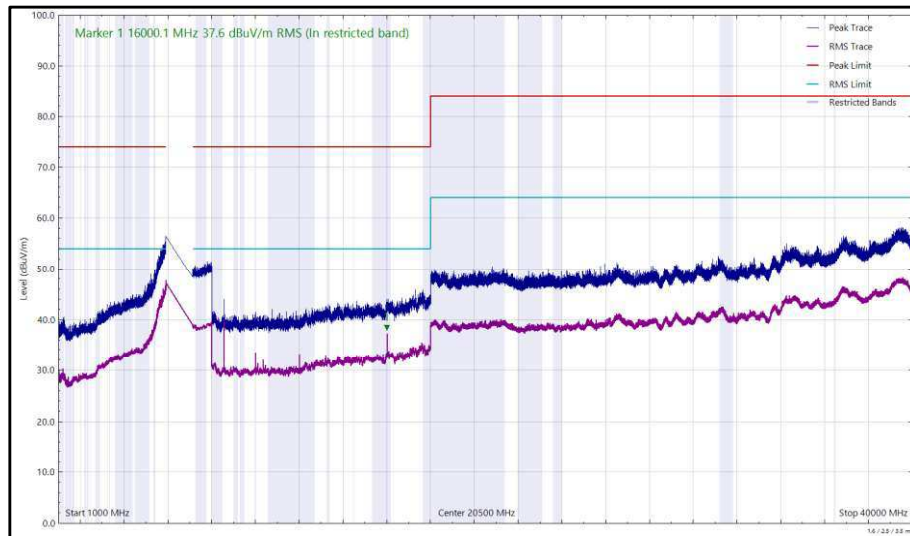


Figure 139 - U-NII-5 - 6415 MHz (CH93), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

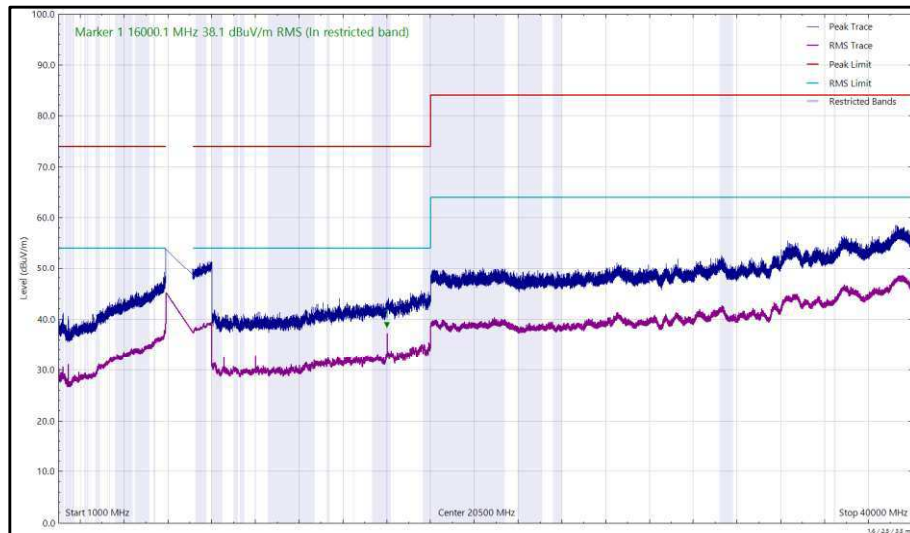


Figure 140 - U-NII-5 - 6415 MHz (CH93), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
16000.005	38.51	54.00	-15.49	RMS	325	196	Vertical
16000.075	36.70	54.00	-17.30	RMS	328	235	Horizontal

Table 325 - U-NII-6 - 6435 MHz (CH97), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

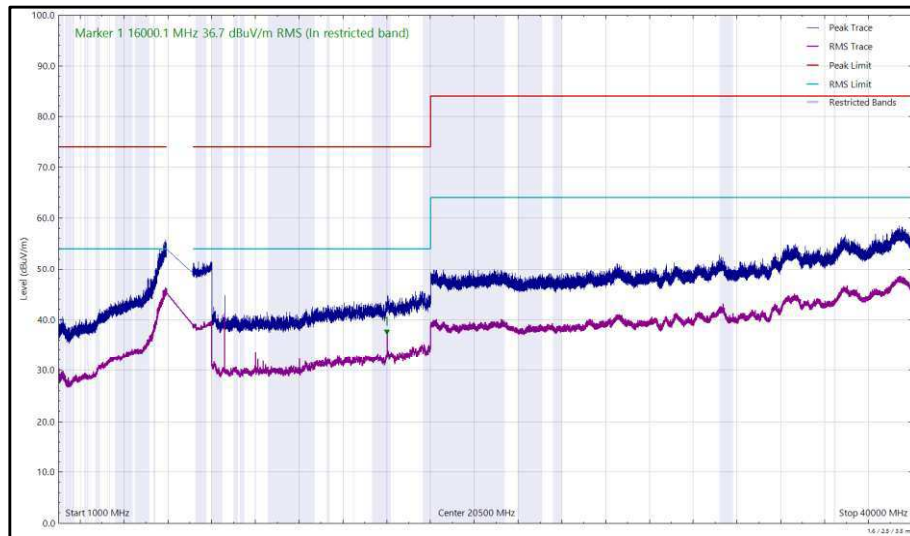


Figure 141 - U-NII-6 - 6435 MHz (CH97), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

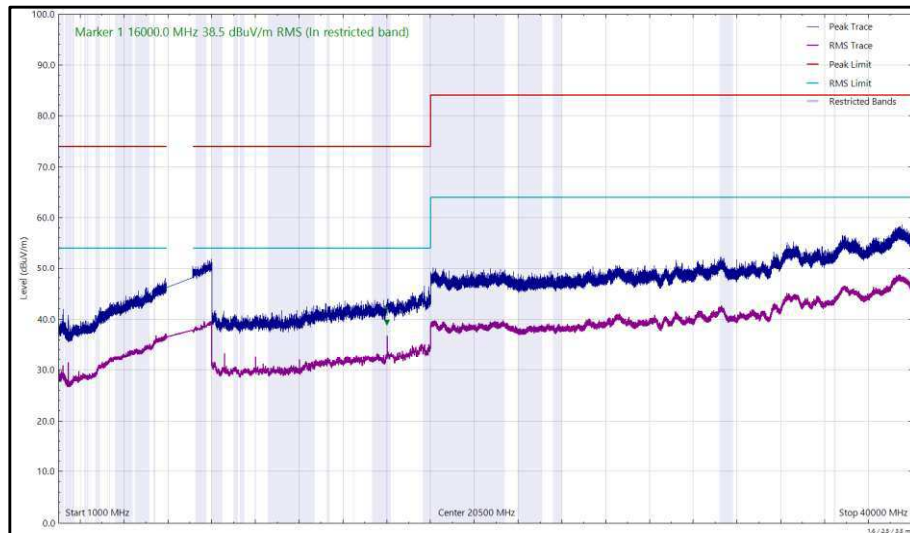


Figure 142 - U-NII-6 - 6435 MHz (CH97), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
15999.985	36.86	54.00	-17.14	RMS	324	101	Vertical
16000.035	38.96	54.00	-15.04	RMS	327	182	Horizontal

Table 326 - U-NII-6 - 6475 MHz (CH105), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

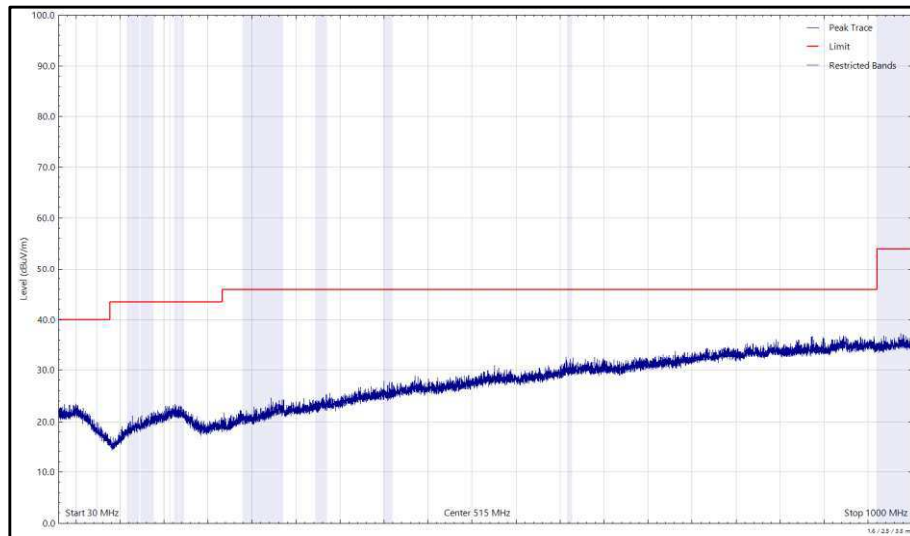


Figure 143 - U-NII-6 - 6475 MHz (CH105), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

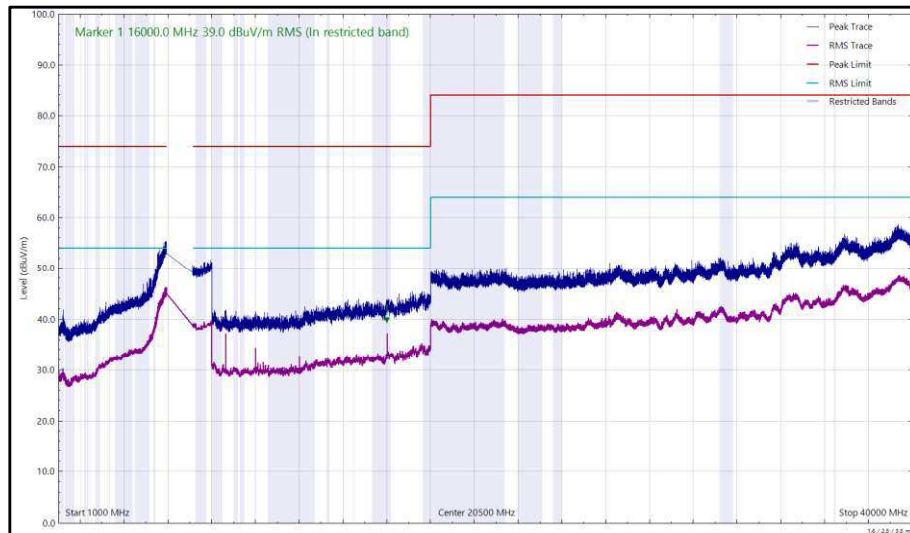


Figure 144 - U-NII-6 - 6475 MHz (CH105), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

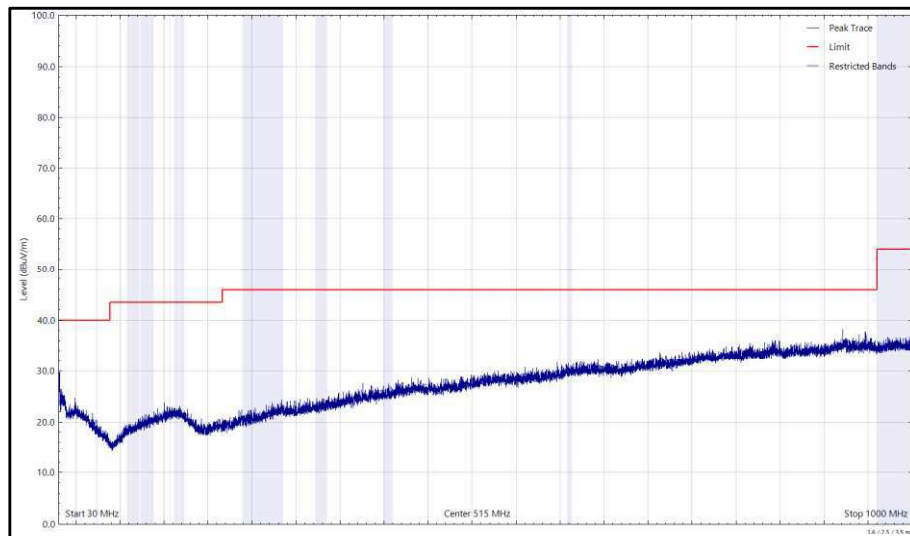


Figure 145 - U-NII-6 - 6475 MHz (CH105), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

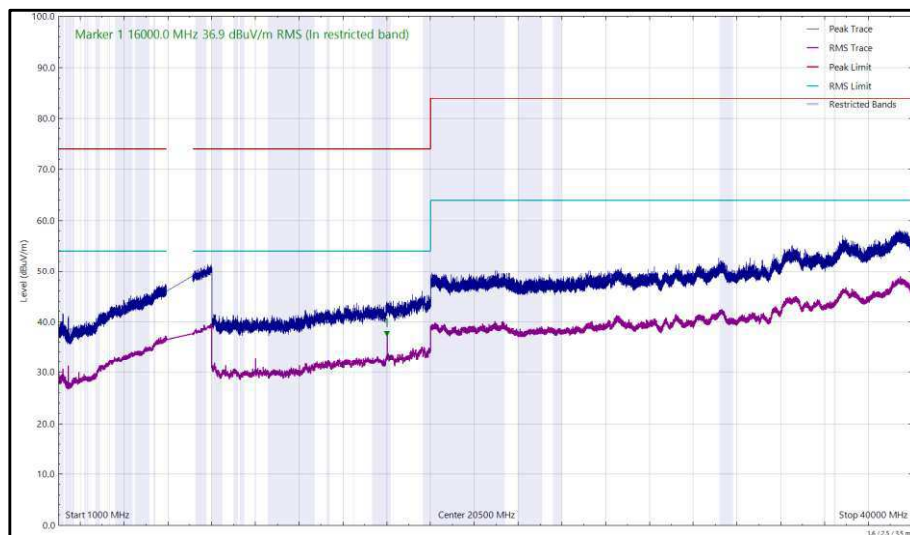


Figure 146 - U-NII-6 - 6475 MHz (CH105), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
16000.055	35.67	54.00	-18.33	RMS	315	297	Vertical
16000.110	37.19	54.00	-16.81	RMS	328	185	Horizontal

Table 327 - U-NII-6 - 6515 MHz (CH113), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

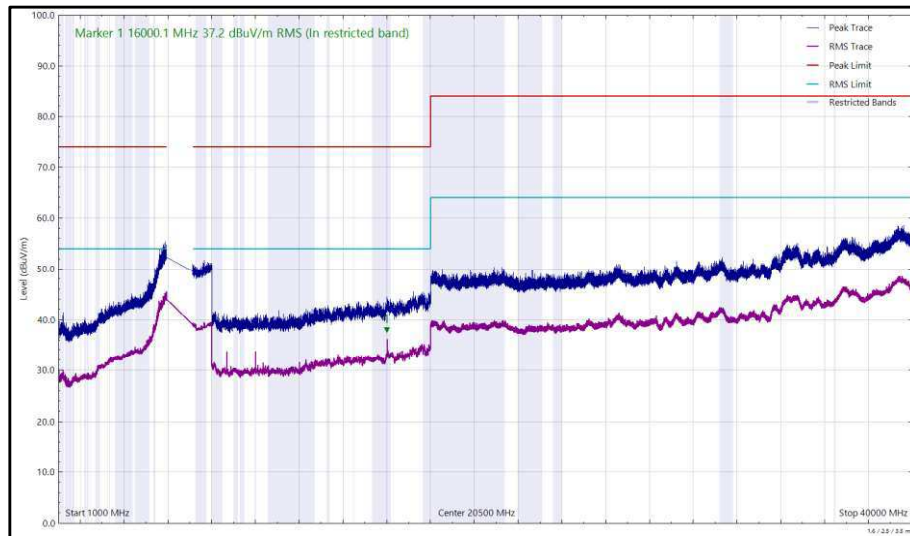


Figure 147 - U-NII-6 - 6515 MHz (CH113), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

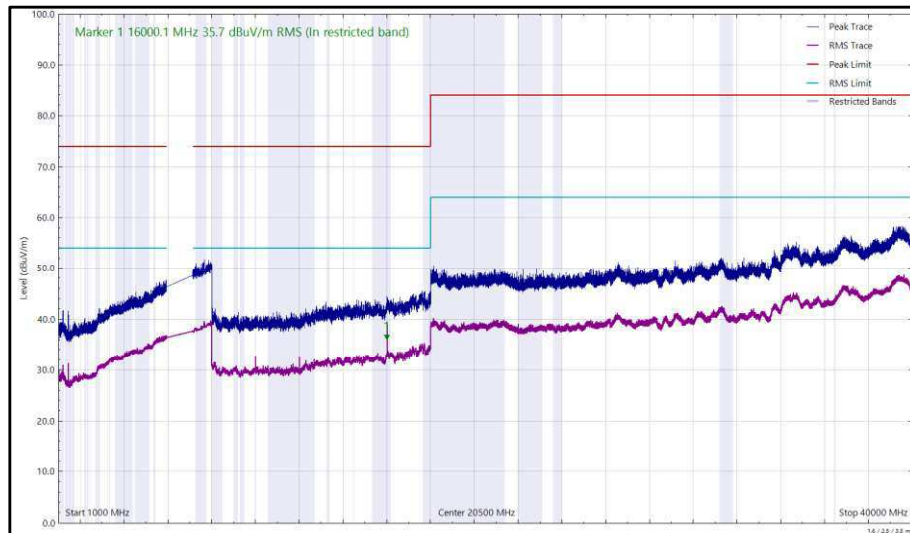


Figure 148 - U-NII-6 - 6515 MHz (CH113), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
16000.035	35.55	54.00	-18.45	RMS	319	172	Horizontal
16000.095	37.51	54.00	-16.49	RMS	323	138	Vertical

Table 328 - U-NII-7 - 6535 MHz (CH117), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

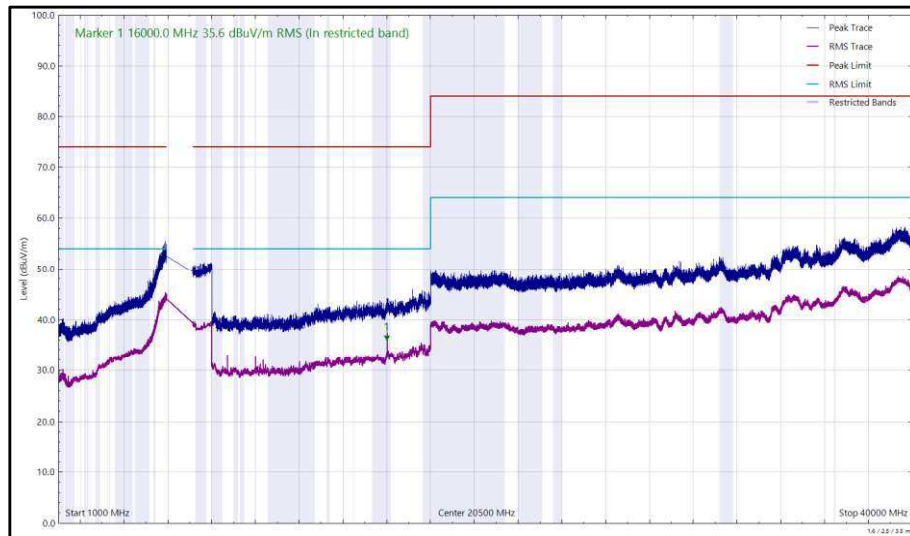


Figure 149 - U-NII-7 - 6535 MHz (CH117), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

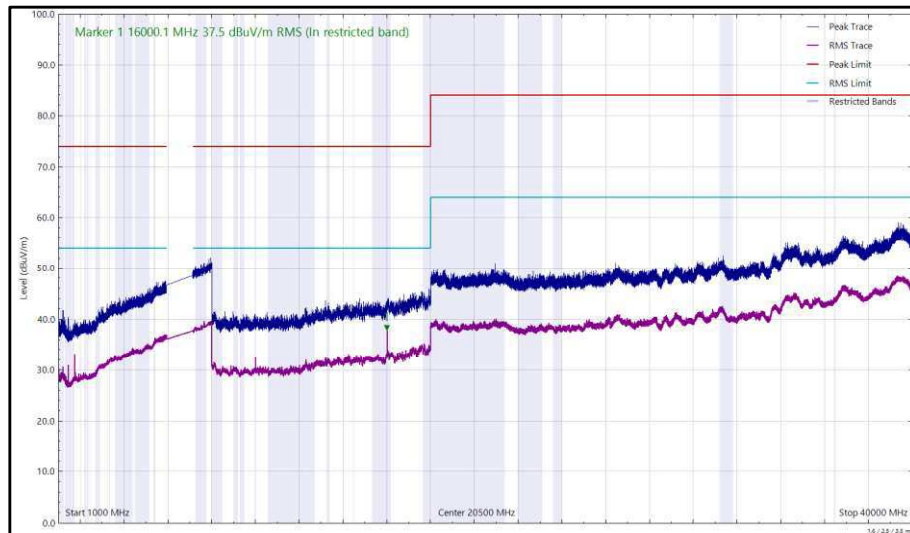


Figure 150 - U-NII-7 - 6535 MHz (CH117), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
16000.015	36.11	54.00	-17.89	RMS	318	163	Horizontal
16000.050	38.57	54.00	-15.43	RMS	325	196	Vertical

Table 329 - U-NII-7 - 6695 MHz (CH149), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

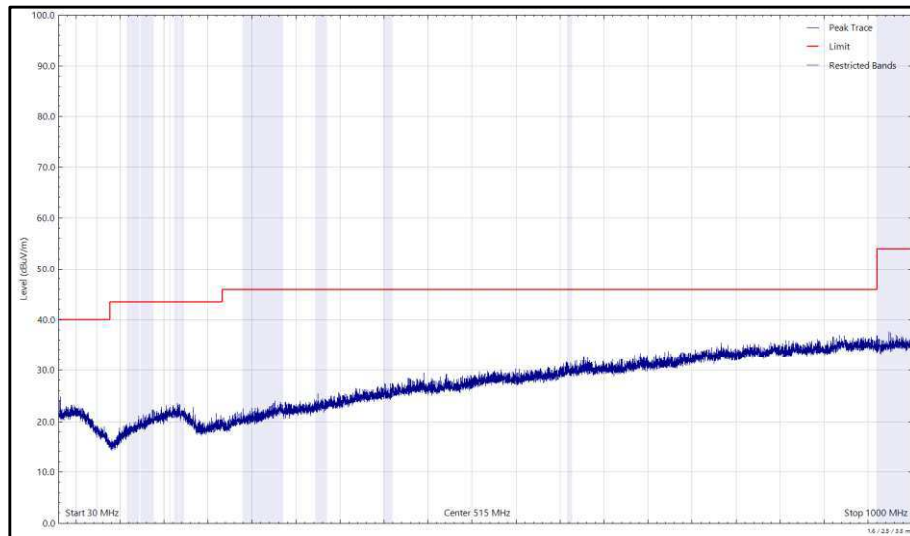


Figure 151 - U-NII-7 - 6695 MHz (CH149), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

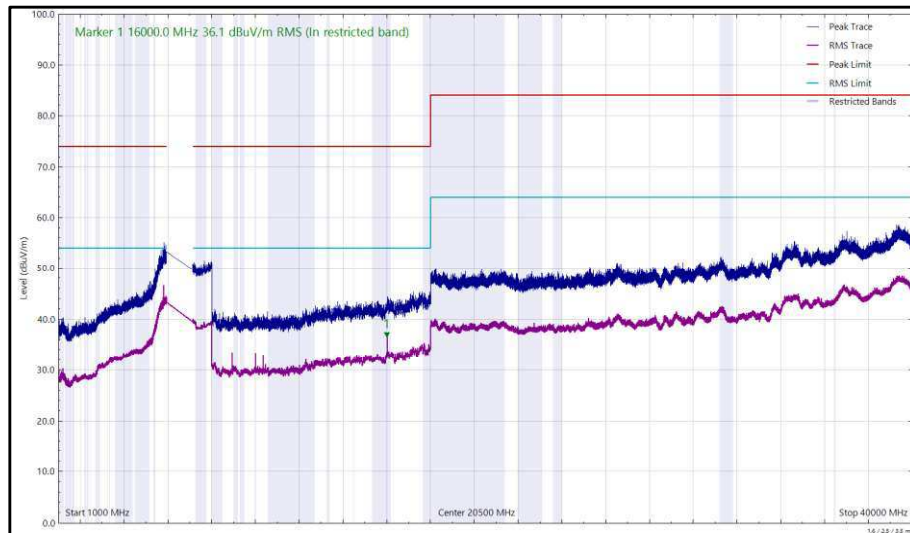


Figure 152 - U-NII-7 - 6695 MHz (CH149), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

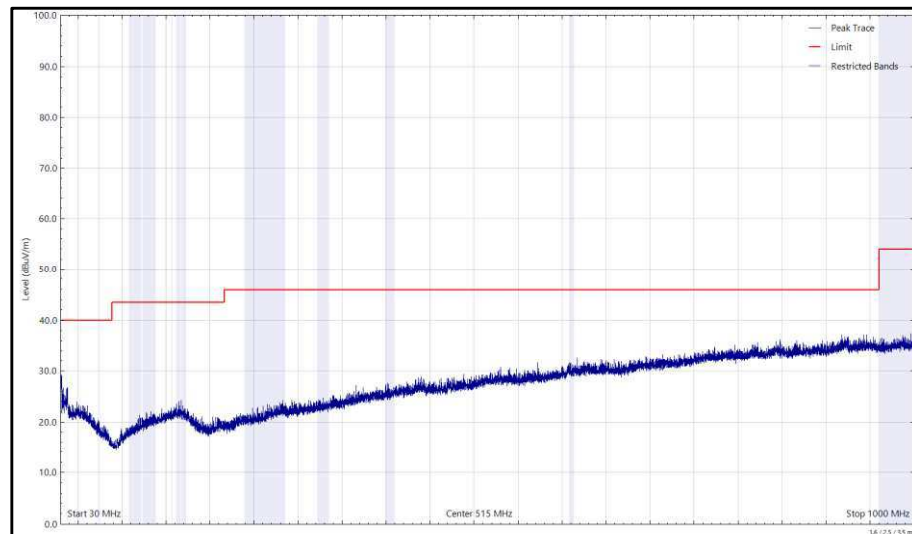


Figure 153 - U-NII-7 - 6695 MHz (CH149), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

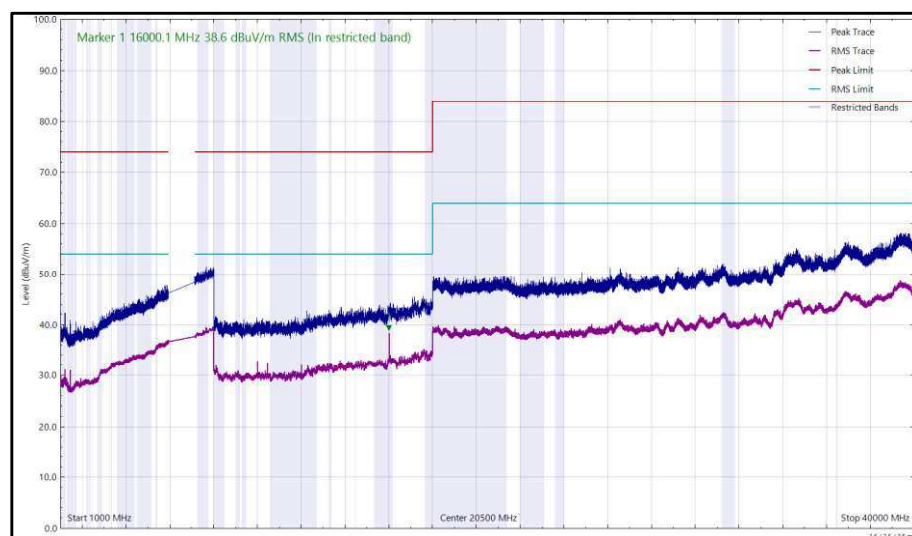


Figure 154 - U-NII-7 - 6695 MHz (CH149), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
16000.075	37.29	54.00	-16.71	RMS	323	156	Vertical

Table 330 - U-NII-7 - 6855 MHz (CH181), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

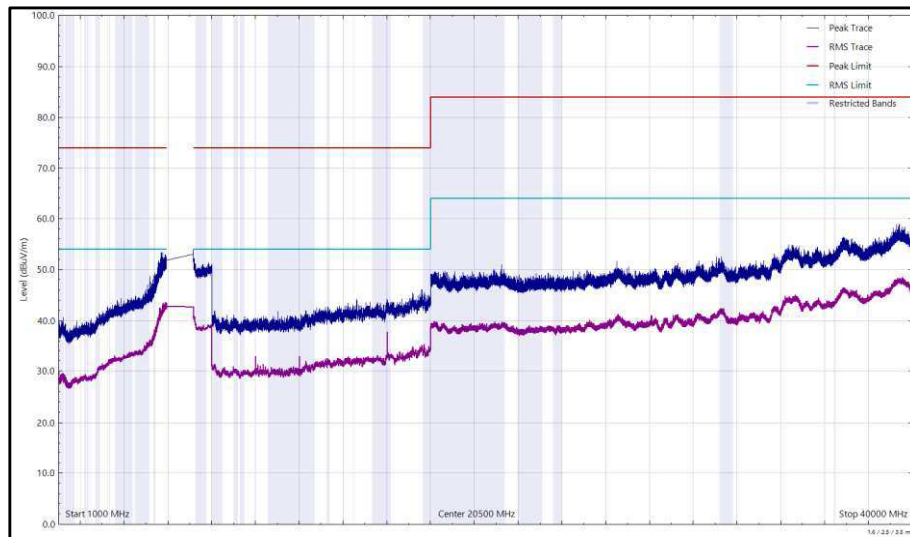


Figure 155 - U-NII-7 - 6855 MHz (CH181), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

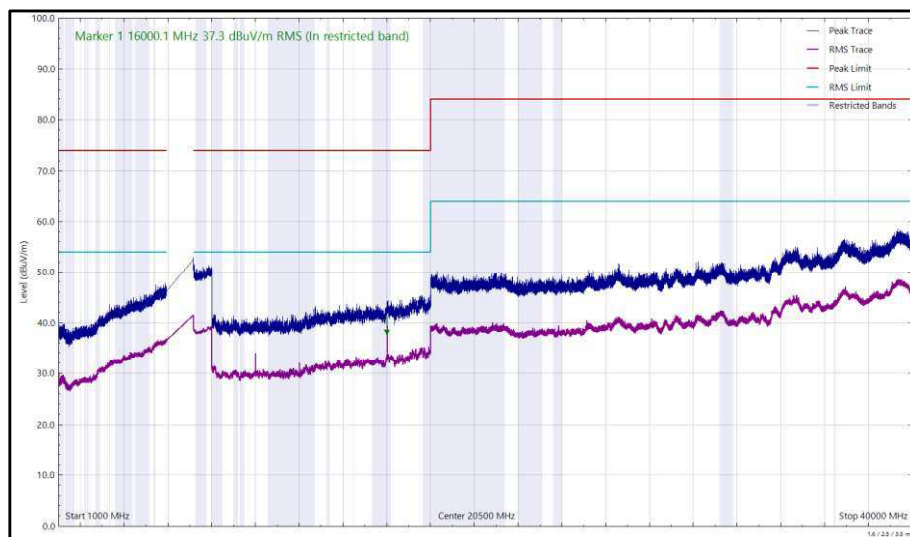


Figure 156 - U-NII-7 - 6855 MHz (CH181), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
16000.030	40.00	54.00	-14.00	RMS	328	192	Vertical
16000.074	37.96	54.00	-16.04	RMS	328	176	Horizontal

Table 331 - U-NII-8 - 6895 MHz (CH189), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz

No other emissions found within 10 dB of the limit.

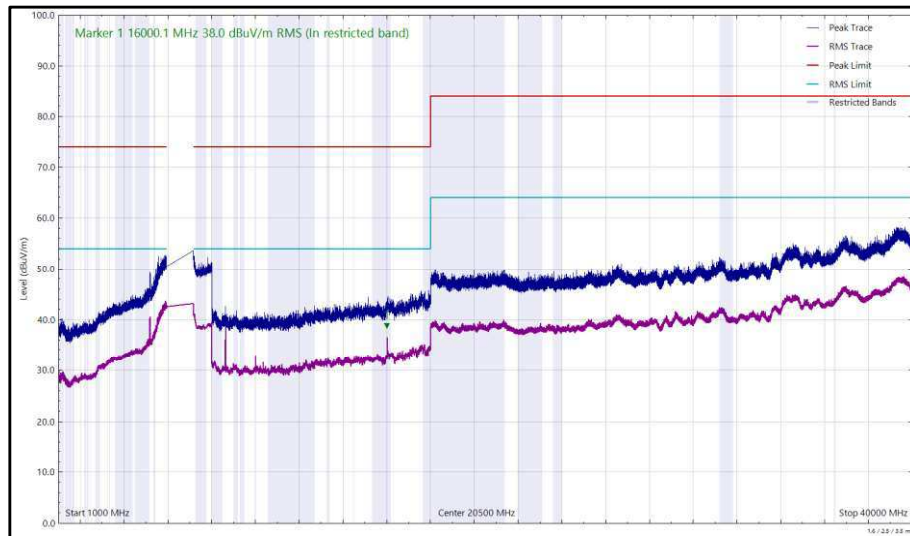


Figure 157 - U-NII-8 - 6895 MHz (CH189), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal

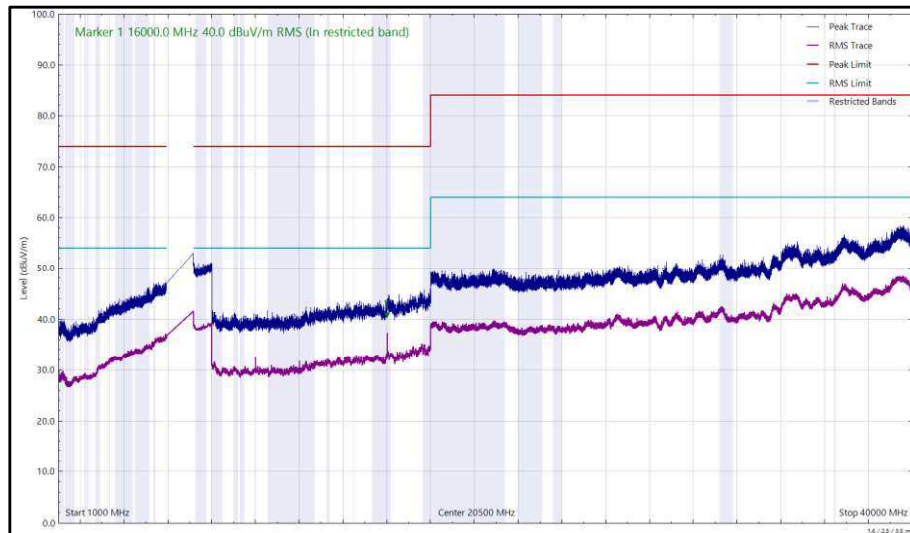


Figure 158 - U-NII-8 - 6895 MHz (CH189), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Vertical

Frequency (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Angle (°)	Height (cm)	Polarisation
16000.050	36.82	54.00	-17.18	RMS	324	101	Vertical
16000.065	39.12	54.00	-14.88	RMS	327	178	Horizontal

Table 332 - U-NII-8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 40 GHz

No other emissions found within 10 dB of the limit.

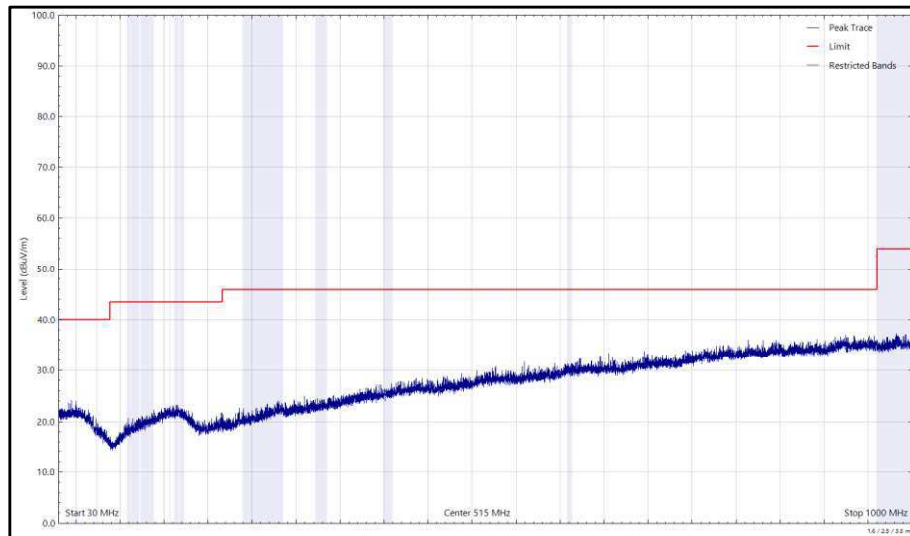


Figure 159 - U-NII-8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)

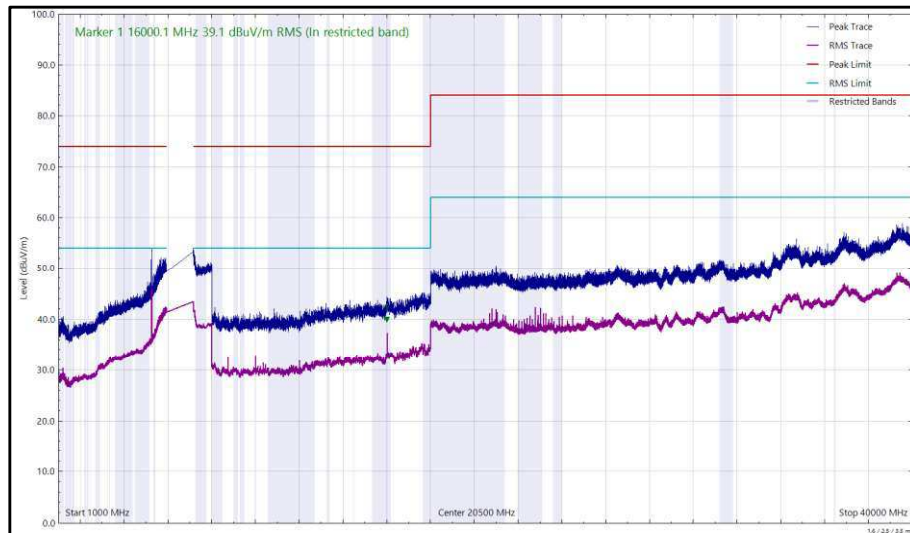


Figure 160 - U-NII-8 - 6995 MHz (CH209), HE20, SU, CDD, Core 0 + Core 1, 1 GHz to 40 GHz, Horizontal