



Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11b	12.900	12.960
802.11g	16.500	16.620
802.11n HT20	17.700	17.700
802.11ax HE20 SU	18.900	18.960

Table 14 - 99% Bandwidth Summary Results - SISO

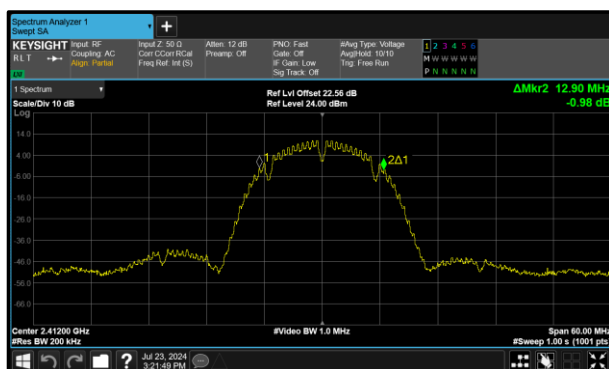


Figure 125 - 802.11b Minimum 99% OBW

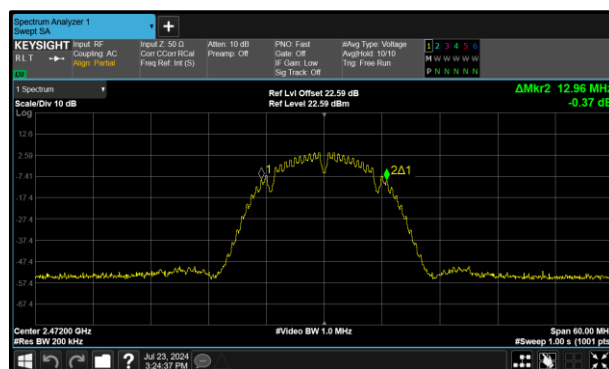


Figure 126 - 802.11b Maximum 99% OBW

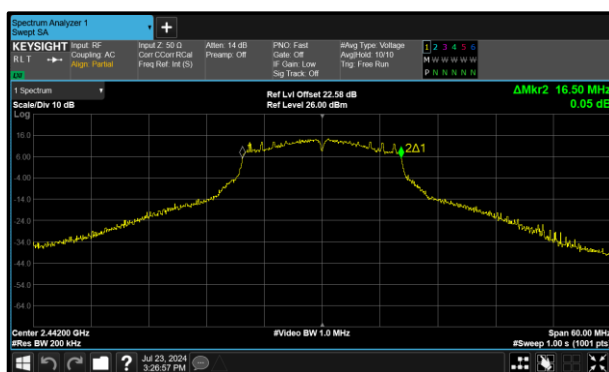


Figure 127 - 802.11g Minimum 99% OBW

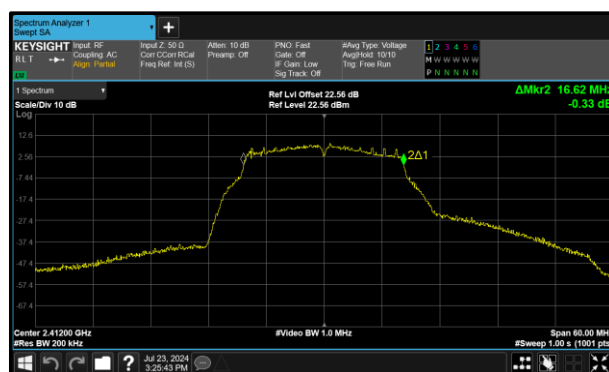


Figure 128 - 802.11g Maximum 99% OBW

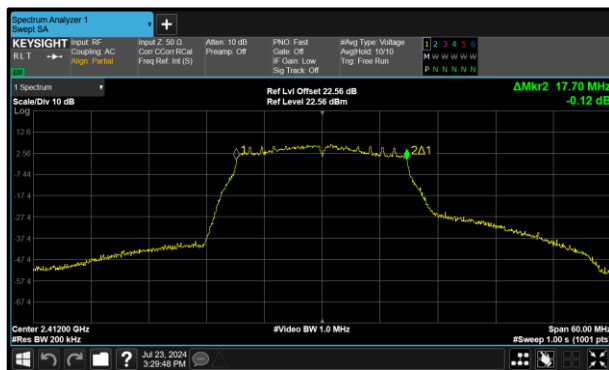


Figure 129 - 802.11n HT20 Minimum 99% OBW

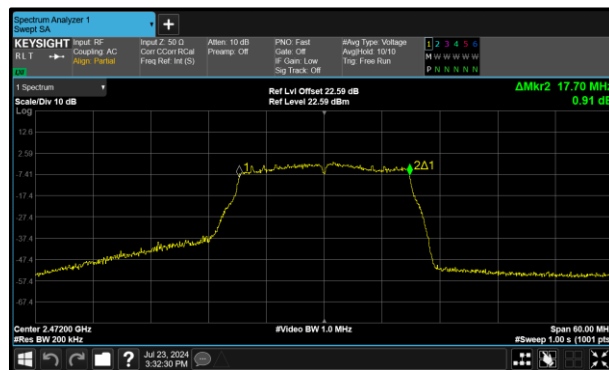


Figure 130 - 802.11n HT20 Maximum 99% OBW

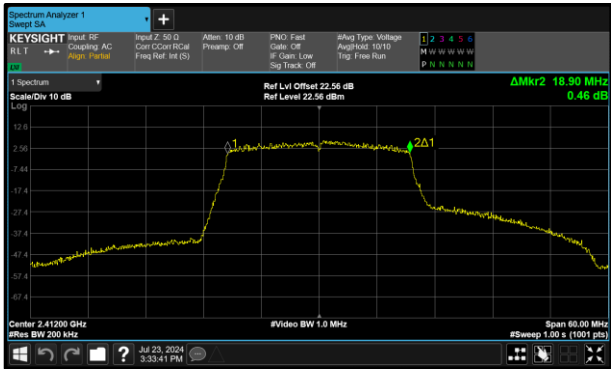


Figure 131 - 802.11ax HE20 SU Minimum 99% OBW

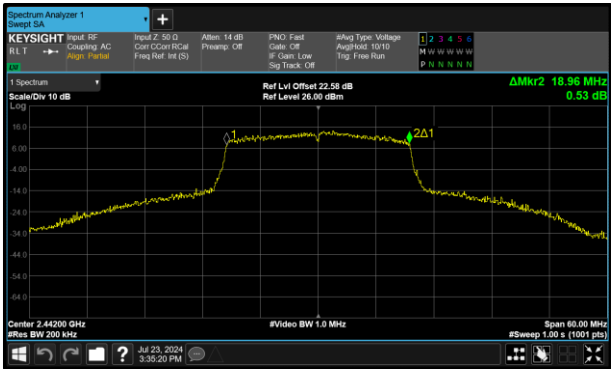


Figure 132 - 802.11ax HE20 SU Maximum 99% OBW



MIMO CDD

Protocol	6 dB Bandwidth (MHz)	
	Minimum	Maximum
802.11n HT20	15.300	17.400
802.11ax HE20 SU	18.480	19.140

Table 15 - 6 dB Bandwidth Summary Results - MIMO CDD

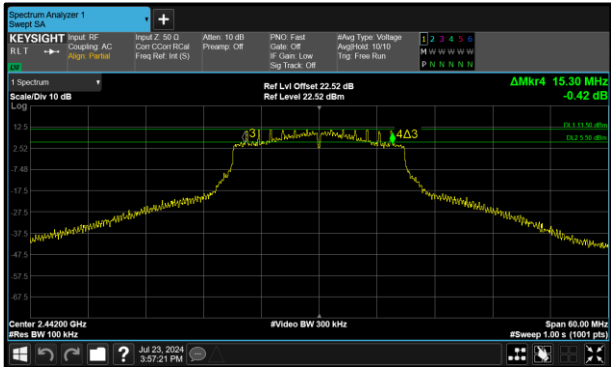


Figure 133 - 802.11n HT20 Minimum 6 dB EBW

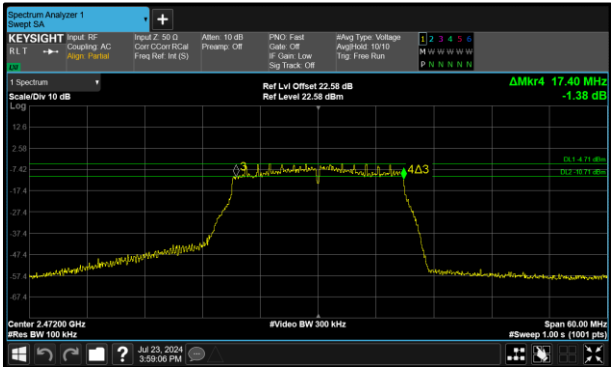


Figure 134 - 802.11n HT20 Maximum 6 dB EBW

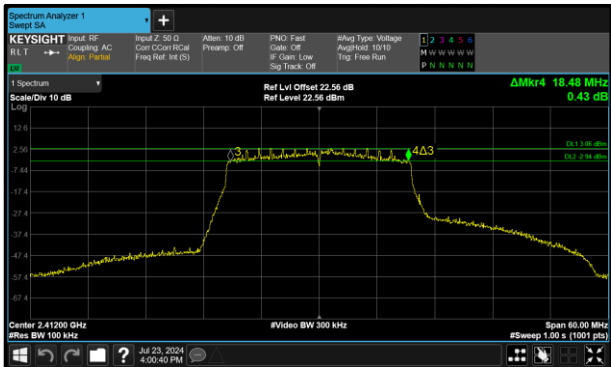


Figure 135 - 802.11ax HE20 SU Minimum 6 dB
EBW

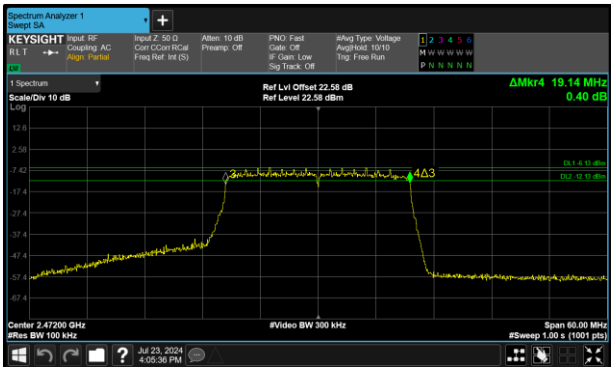


Figure 136 - 802.11ax HE20 SU Maximum 6 dB
EBW



Protocol	99% Bandwidth (MHz)	
	Minimum	Maximum
802.11n HT20	17.580	17.760
802.11ax HE20 SU	18.900	18.960

Table 16 - 99% Bandwidth Summary Results - MIMO CDD

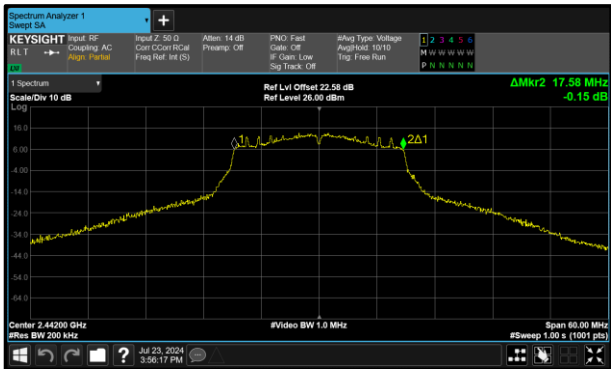


Figure 137 - 802.11n HT20 Minimum 99% OBW

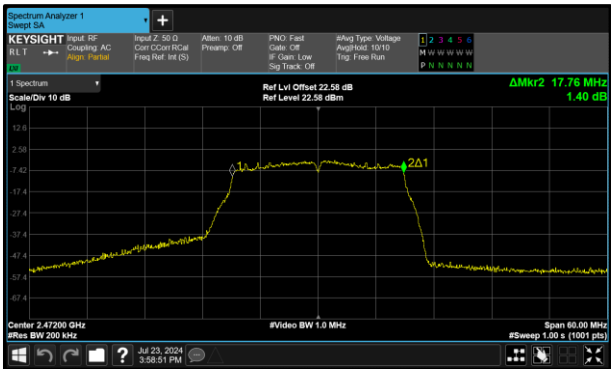


Figure 138 - 802.11n HT20 Maximum 99% OBW

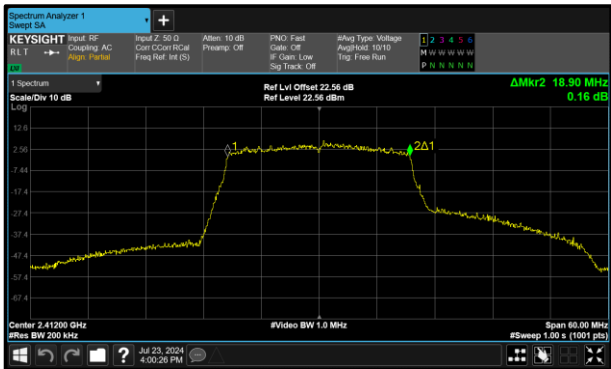


Figure 139 - 802.11ax HE20 SU Minimum 99% OBW

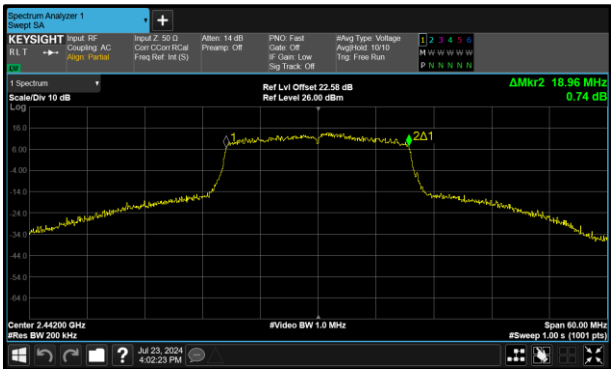


Figure 140 - 802.11ax HE20 SU Maximum 99% OBW



SISO

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

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

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	9.120	-	-	-	≥500.0
2442	8.640	-	-	-	≥500.0
2472	9.120	-	-	-	≥500.0

Table 17 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	12.900	-	-	-	-
2442	12.900	-	-	-	-
2472	12.960	-	-	-	-

Table 18 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

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

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	15.540	-	-	-	≥500.0
2442	15.240	-	-	-	≥500.0
2472	16.440	-	-	-	≥500.0

Table 19 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	16.620	-	-	-	-
2442	16.500	-	-	-	-
2472	16.560	-	-	-	-

Table 20 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	-
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	16.740	-	-	-	≥500.0
2442	15.300	-	-	-	≥500.0
2472	17.400	-	-	-	≥500.0

Table 21 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	17.700	-	-	-	-
2442	17.700	-	-	-	-
2472	17.700	-	-	-	-

Table 22 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

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)	Active Chain(s):	0

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	18.420	-	-	-	≥500.0
2442	18.840	-	-	-	≥500.0
2472	19.020	-	-	-	≥500.0

Table 23 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	18.900	-	-	-	-
2442	18.960	-	-	-	-
2472	18.960	-	-	-	-

Table 24 - 99% Bandwidth Results



MIMO CDD

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	-
Modulation Coding Scheme:	MCS2	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	-
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	16.140	16.140	-	-	≥500.0
2442	15.840	15.300	-	-	≥500.0
2472	17.340	17.400	-	-	≥500.0

Table 25 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	17.700	17.700	-	-	-
2442	17.580	17.580	-	-	-
2472	17.700	17.760	-	-	-

Table 26 - 99% Bandwidth Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (a)(2) RSS-247 5.2 a)	Test Method(s):	C63.10 6.9.3 C63.10 11.8.1
Additional Reference(s):	-		

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(s):	0+1

Test Frequency (MHz)	6 dB Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	18.480	18.660	-	-	≥500.0
2442	19.020	18.780	-	-	≥500.0
2472	19.080	19.140	-	-	≥500.0

Table 27 - 6 dB Bandwidth Results

Test Frequency (MHz)	99% Bandwidth (MHz)				Limit (kHz)
	A	B	C	D	
2412	18.900	18.900	-	-	-
2442	18.960	18.960	-	-	-
2472	18.960	18.960	-	-	-

Table 28 - 99% Bandwidth Results

FCC 47 CFR Part 15, Limit Clause 15.247(a)(2) and ISSED RSS-247, Clause 5.2(a)

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



2.2.7 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 Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
MXA Signal Analyser	Keysight Technologies	N9020B	6417	24	26-Feb-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6529	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6530	12	16-Feb-2025
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon

Table 29

O/P Mon - Output Monitored using calibrated equipment



2.3 Maximum Conducted Output Power

2.3.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (b)
ISED RSS-247, Clause 5.4
ISED RSS-GEN, Clause 6.12

2.3.2 Equipment Under Test and Modification State

A3238, S/N: X5C43QCG7L - Modification State 0

2.3.3 Date of Test

23-July-2024

2.3.4 Test Method

The test was performed in accordance with ANSI C63.10 clause 11.9.2.3.2 Method AVGPM-G.

MIMO output port summing was performed in accordance with KDB 662911 D01.

For the CDD results, the Directional Gain was calculated in accordance with clause F)2)f)(ii) using the calculations from F)2)f)(i) with worst-case individual gain and an array gain of zero.

2.3.5 Environmental Conditions

Ambient Temperature	21.5 °C
Relative Humidity	60.3 %



2.3.6 Test Results

2.4 GHz WLAN

SISO

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11b	Duty Cycle (%):	99.4
Data Rate:	1 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	18.87	-	-	-	18.87	30.00	-11.13
2442	19.24	-	-	-	19.24	30.00	-10.76
2472	11.78	-	-	-	11.78	30.00	-18.22

Table 30 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	18.87	-	-	-	18.87	30.00	-11.13	20.67	36.00	-15.33
2442	19.24	-	-	-	19.24	30.00	-10.76	21.04	36.00	-14.96
2472	11.78	-	-	-	11.78	30.00	-18.22	13.58	36.00	-22.42

Table 31 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11g	Duty Cycle (%):	97.6
Data Rate:	12 Mbps	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	17.21	-	-	-	17.21	30.00	-12.79
2442	23.00	-	-	-	23.00	30.00	-7.00
2472	7.42	-	-	-	7.42	30.00	-22.58

Table 32 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	17.21	-	-	-	17.21	30.00	-12.79	19.01	36.00	-16.99
2442	23.00	-	-	-	23.00	30.00	-7.00	24.80	36.00	-11.20
2472	7.42	-	-	-	7.42	30.00	-22.58	9.22	36.00	-26.78

Table 33 - ISD Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	96.5
Modulation Coding Scheme:	MCS2	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	15.78	-	-	-	15.78	30.00	-14.22
2442	22.80	-	-	-	22.80	30.00	-7.20
2472	7.45	-	-	-	7.45	30.00	-22.55

Table 34 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	15.78	-	-	-	15.78	30.00	-14.22	17.58	36.00	-18.42
2442	22.80	-	-	-	22.80	30.00	-7.20	24.60	36.00	-11.40
2472	7.45	-	-	-	7.45	30.00	-22.55	9.25	36.00	-26.75

Table 35 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	95.8
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	14.90	-	-	-	14.90	30.00	-15.10
2442	22.87	-	-	-	22.87	30.00	-7.13
2472	6.36	-	-	-	6.36	30.00	-23.64

Table 36 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	14.90	-	-	-	14.90	30.00	-15.10	16.70	36.00	-19.30
2442	22.87	-	-	-	22.87	30.00	-7.13	24.67	36.00	-11.33
2472	6.36	-	-	-	6.36	30.00	-23.64	8.16	36.00	-27.84

Table 37 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 RU26	Duty Cycle (%):	96.5
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	14.38	-	-	-	14.38	30.00	-15.62
2442	14.29	-	-	-	14.29	30.00	-15.71
2472	-2.82	-	-	-	-2.82	30.00	-32.82

Table 38 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	14.38	-	-	-	14.38	30.00	-15.62	16.18	36.00	-19.82
2442	14.29	-	-	-	14.29	30.00	-15.71	16.09	36.00	-19.91
2472	-2.82	-	-	-	-2.82	30.00	-32.82	-1.02	36.00	-37.02

Table 39 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 RU52	Duty Cycle (%):	96.4
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	17.33	-	-	-	17.33	30.00	-12.67
2442	17.31	-	-	-	17.31	30.00	-12.69
2472	-1.80	-	-	-	-1.80	30.00	-31.80

Table 40 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	17.33	-	-	-	17.33	30.00	-12.67	19.13	36.00	-16.87
2442	17.31	-	-	-	17.31	30.00	-12.69	19.11	36.00	-16.89
2472	-1.80	-	-	-	-1.80	30.00	-31.80	0.00	36.00	-36.00

Table 41 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	-		

DUT Configuration			
Mode:	802.11ax HE20 RU106	Duty Cycle (%):	97.8
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	SISO	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A (Core 0)	Active Chain(s):	0

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	15.89	-	-	-	15.89	30.00	-14.11
2442	20.41	-	-	-	20.41	30.00	-9.59
2472	-0.68	-	-	-	-0.68	30.00	-30.68

Table 42 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	15.89	-	-	-	15.89	30.00	-14.11	17.69	36.00	-18.31
2442	20.41	-	-	-	20.41	30.00	-9.59	22.21	36.00	-13.79
2472	-0.68	-	-	-	-0.68	30.00	-30.68	1.12	36.00	-34.88

Table 43 - ISSED Maximum Conducted (average) Output Power Results



MIMO CDD

Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)f(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11n HT20	Duty Cycle (%):	96.5
Modulation Coding Scheme:	MCS2	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	15.55	15.97	-	-	18.77	30.00	-11.23
2442	22.25	22.64	-	-	25.46	30.00	-4.54
2472	6.92	6.92	-	-	9.93	30.00	-20.07

Table 44 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	15.55	15.97	-	-	18.77	30.00	-11.23	20.57	36.00	-15.43
2442	22.25	22.64	-	-	25.46	30.00	-4.54	27.26	36.00	-8.74
2472	6.92	6.92	-	-	9.93	30.00	-20.07	11.73	36.00	-24.27

Table 45 - ISSED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)f)(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ax HE20 SU	Duty Cycle (%):	95.7
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	14.06	14.35	-	-	17.22	30.00	-12.78
2442	22.29	22.82	-	-	25.57	30.00	-4.43
2472	5.42	5.24	-	-	8.34	30.00	-21.66

Table 46 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	14.06	14.35	-	-	17.22	30.00	-12.78	19.02	36.00	-16.98
2442	22.29	22.82	-	-	25.57	30.00	-4.43	27.37	36.00	-8.63
2472	5.42	5.24	-	-	8.34	30.00	-21.66	10.14	36.00	-25.86

Table 47 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)f(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ax HE20 RU26	Duty Cycle (%):	96.5
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	14.11	14.41	-	-	17.27	30.00	-12.73
2442	13.88	14.36	-	-	17.14	30.00	-12.86
2472	-4.16	-4.36	-	-	-1.25	30.00	-31.25

Table 48 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	14.11	14.41	-	-	17.27	30.00	-12.73	19.07	36.00	-16.93
2442	13.88	14.36	-	-	17.14	30.00	-12.86	18.94	36.00	-17.06
2472	-4.16	-4.36	-	-	-1.25	30.00	-31.25	0.55	36.00	-35.45

Table 49 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)f(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ax HE20 RU52	Duty Cycle (%):	96.4
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	16.68	17.00	-	-	19.86	30.00	-10.14
2442	17.31	17.39	-	-	20.36	30.00	-9.64
2472	-3.36	-3.23	-	-	-0.29	30.00	-30.29

Table 50 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	16.68	17.00	-	-	19.86	30.00	-10.14	21.66	36.00	-14.34
2442	17.31	17.39	-	-	20.36	30.00	-9.64	22.16	36.00	-13.84
2472	-3.36	-3.23	-	-	-0.29	30.00	-30.29	1.51	36.00	-34.49

Table 51 - ISED Maximum Conducted (average) Output Power Results



Test Configuration			
Frequency Range:	2400-2483.5 MHz	Band:	2.4 GHz
Limit Clause(s):	15.247 (b)(3) RSS-247 5.4 d)	Test Method(s):	C63.10 11.9.2.3.2
Additional Reference(s):	662911 D01 v02r01 F)2)f(i), 662911 D01 v02r01 E)1)		

DUT Configuration			
Mode:	802.11ax HE20 RU106	Duty Cycle (%):	97.8
Modulation Coding Scheme:	MCS2x1	DCCF (dB):	-
Antenna Configuration:	MIMO CDD	Peak Antenna Gain (dBi):	1.80
Active Port(s):	A+B (Core 0 + Core 1)	Active Chain(s):	0+1

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)
	A	B	C	D	Σ		
2412	14.75	14.77	-	-	17.77	30.00	-12.23
2442	20.12	20.42	-	-	23.28	30.00	-6.72
2472	-2.19	-2.26	-	-	0.79	30.00	-29.21

Table 52 - FCC Maximum Conducted (average) Output Power Results

Test Frequency (MHz)	Maximum Conducted Output Power (dBm)					Limit (dBm)	Margin (dB)	EIRP (dBm)	EIRP Limit (dBm)	EIRP Margin (dB)
	A	B	C	D	Σ					
2412	14.75	14.77	-	-	17.77	30.00	-12.23	19.57	36.00	-16.43
2442	20.12	20.42	-	-	23.28	30.00	-6.72	25.08	36.00	-10.92
2472	-2.19	-2.26	-	-	0.79	30.00	-29.21	2.59	36.00	-33.41

Table 53 - ISED Maximum Conducted (average) Output Power Results

FCC 47 CFR Part 15, Limit Clause 15.247 (b)(3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

ISED RSS-247, Limit Clause 5.4 (d)

For DTSS employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e) of the specification.



2.3.7 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 Expiry Date
Hygrometer	Rotronic	I-1000	3068	12	07-Nov-2024
Digital Multimeter	Fluke	115	6145	12	06-Jun-2025
Signal Conditioning Unit	TUV SUD	SPECTRUM_SCU001	6518	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6529	12	16-Feb-2025
SCU Cable Assembly	TUV SUD	SPECTRUM_SCU_CA	6530	12	16-Feb-2025
USB Wideband Power Sensor	Boonton	RTP5008	6587	12	13-Feb-2025
USB Wideband Power Sensor	Boonton	RTP5008	6588	12	13-Feb-2025
AC Programmable Power Supply	iTech	IT7324	6662	-	O/P Mon

Table 54

O/P Mon - Output Monitored using calibrated equipment



2.4 Authorised Band Edges

2.4.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.247 (d)
ISED RSS-247, Clause, 5.5

2.4.2 Equipment Under Test and Modification State

A3238, S/N: QMQLY9FYFQ - Modification State 0
A3238, S/N: N4N7KFP797 - Modification State 0

2.4.3 Date of Test

26-May-2024 to 27-May-2024

2.4.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.10.4.

2.4.5 Environmental Conditions

Ambient Temperature	21.4 - 23.9 °C
Relative Humidity	38.0 - 49.5 %

2.4.6 Test Results

2.4 GHz WLAN

20 MHz Bandwidth - Core 0 (SISO)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
802.11b	1 Mbps	-	-	2412	2400	-50.58
802.11b	1 Mbps	-	-	2417	2400	-51.24
802.11g	54 Mbps	-	-	2412	2400	-34.55
802.11g	54 Mbps	-	-	2417	2400	-35.72
802.11g	54 Mbps	-	-	2422	2400	-40.92
802.11g	54 Mbps	-	-	2427	2400	-46.86
802.11n HT20	MCS 4	-	-	2412	2400	-35.03
802.11n HT20	MCS 7	-	-	2417	2400	-34.95
802.11n HT20	MCS 7	-	-	2422	2400	-37.70
802.11n HT20	MCS 7	-	-	2427	2400	-45.08
802.11ax HE20	MCS 9x1	SU	-	2412	2400	-34.72
802.11ax HE20	MCS 9x1	106	53	2412	2400	-38.65
802.11ax HE20	MCS 9x1	SU	-	2417	2400	-34.60
802.11ax HE20	MCS 9x1	106	53	2417	2400	-45.41
802.11ax HE20	MCS 9x1	SU	-	2422	2400	-35.84
802.11ax HE20	MCS 9x1	SU	-	2427	2400	-43.21

Table 55 - SISO Authorised Band Edge Results

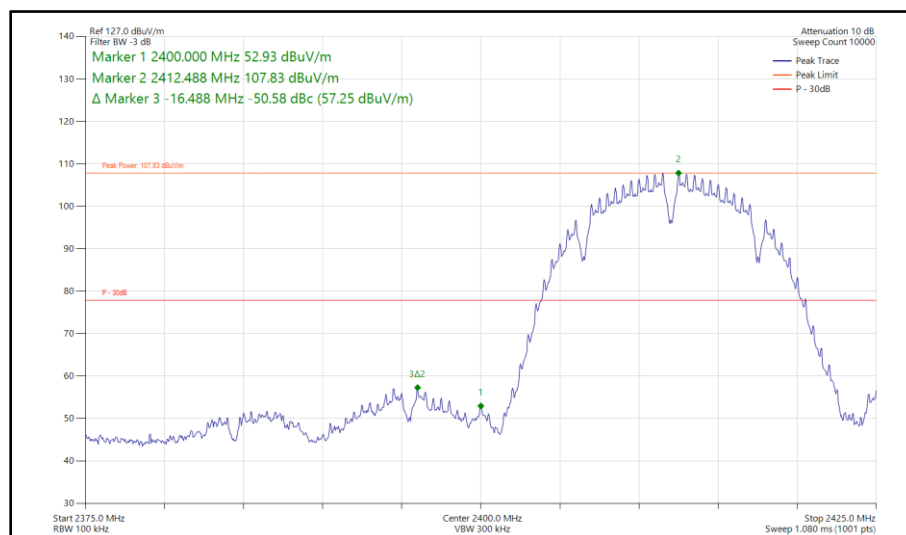


Figure 141 - 802.11b, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz

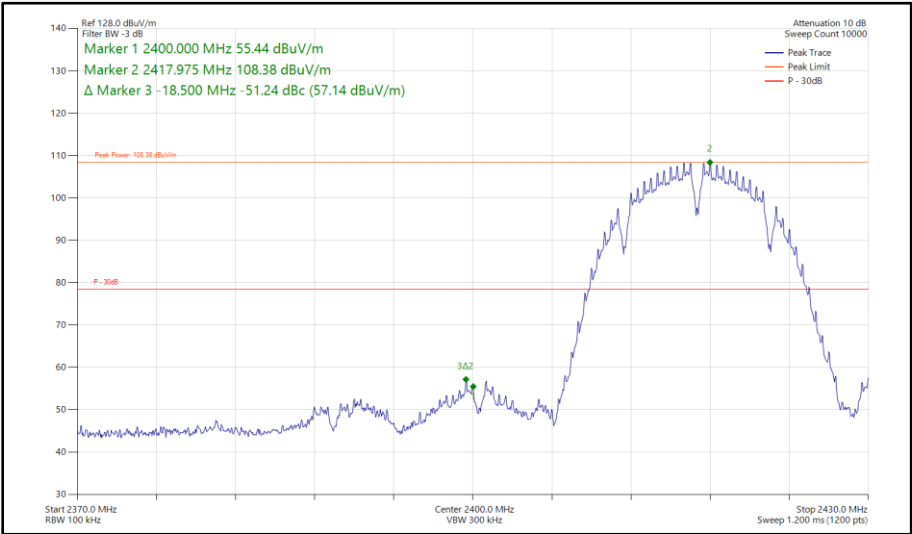


Figure 142 - 802.11b, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz

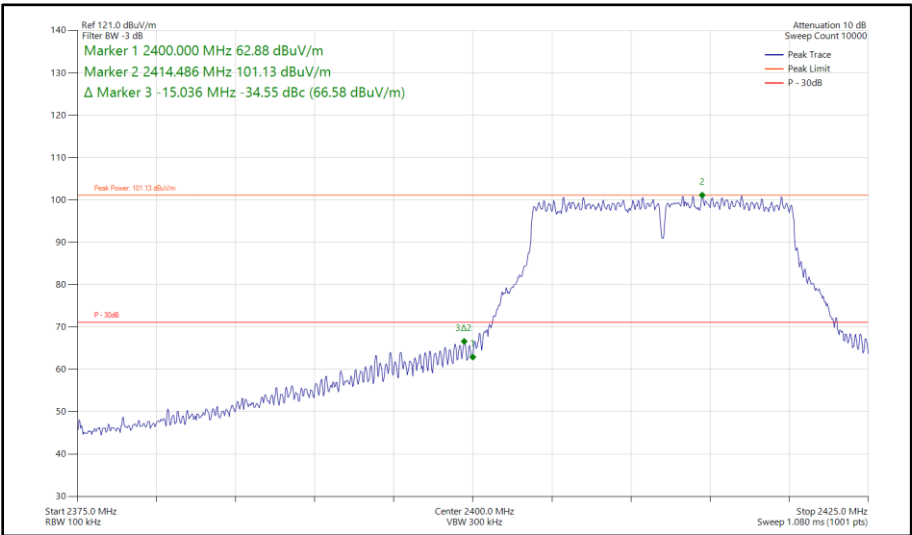


Figure 143 - 802.11g, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz

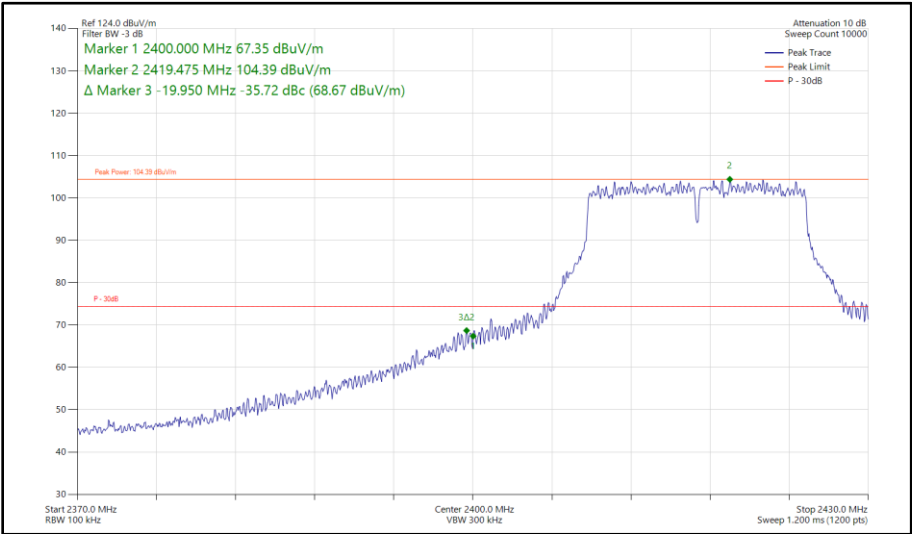


Figure 144 - 802.11g, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz

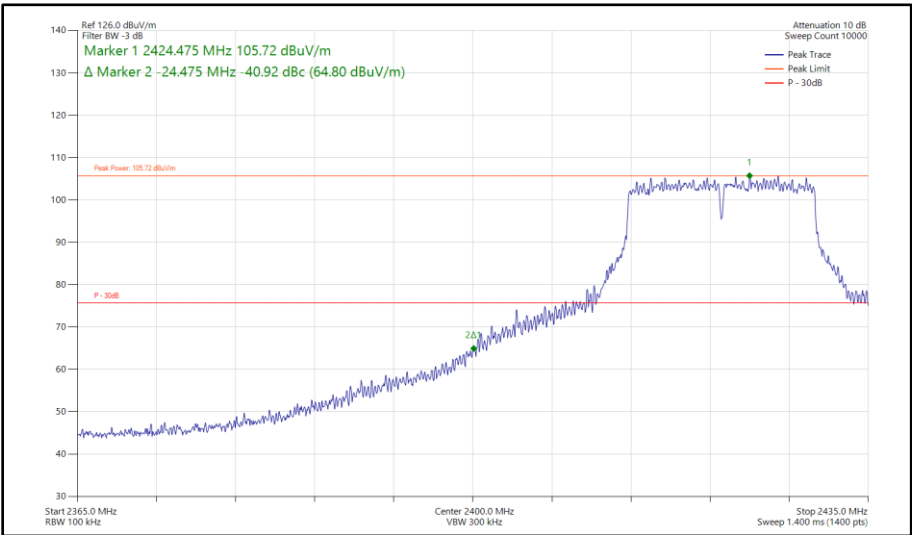


Figure 145 - 802.11g, SISO, Core 0 - 2422 MHz
Band Edge Frequency 2400 MHz

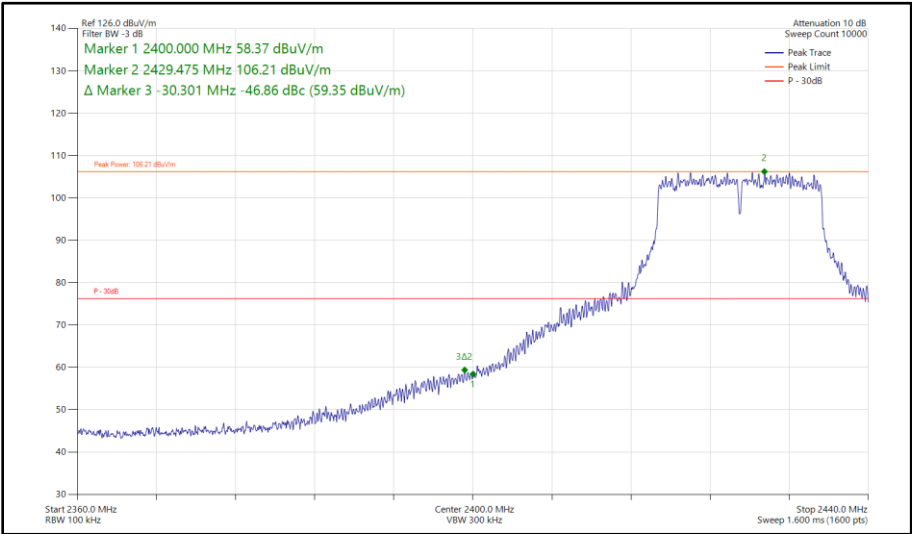


Figure 146 - 802.11g, SISO, Core 0 - 2427 MHz
Band Edge Frequency 2400 MHz

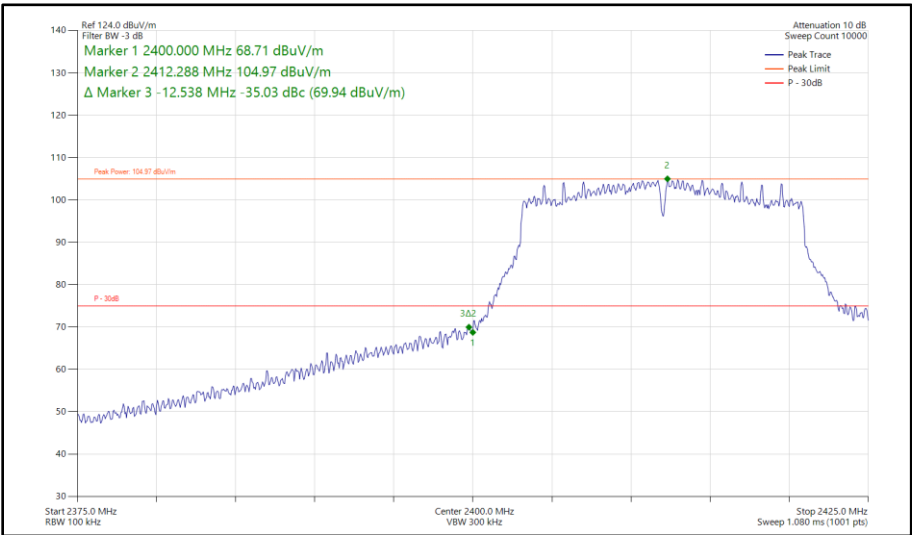


Figure 147 - 802.11n HT20, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz

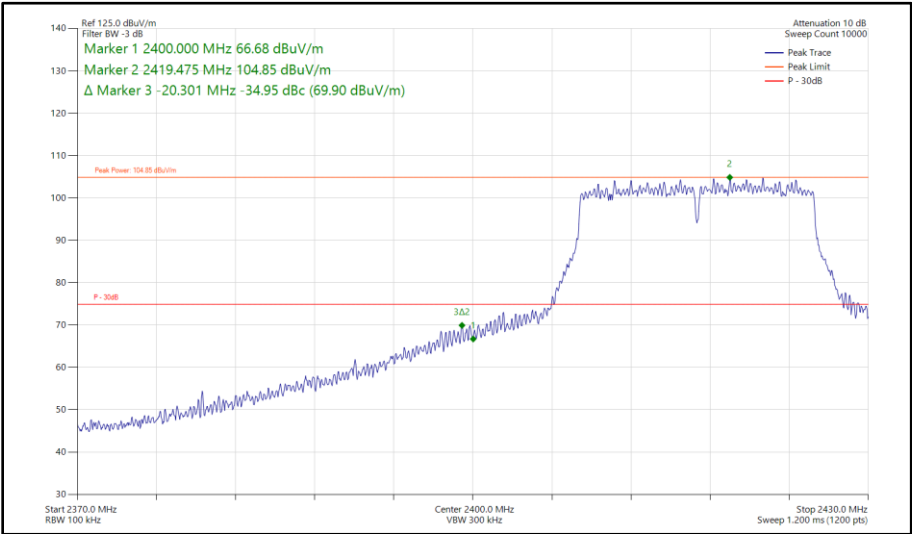


Figure 148 - 802.11n HT20, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz

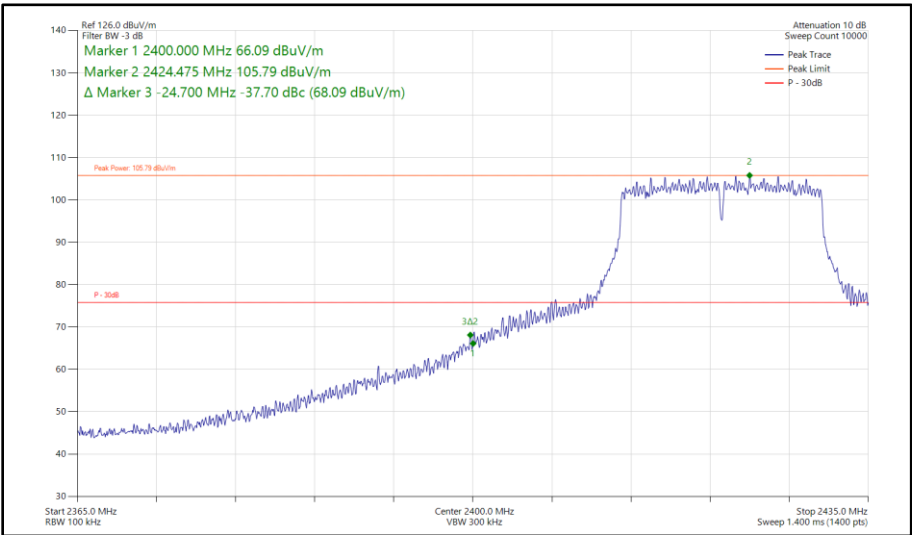
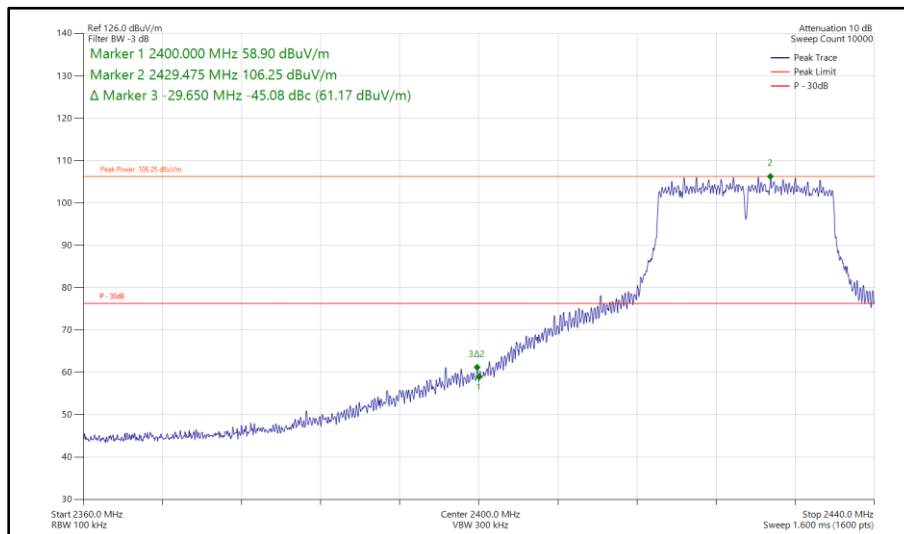
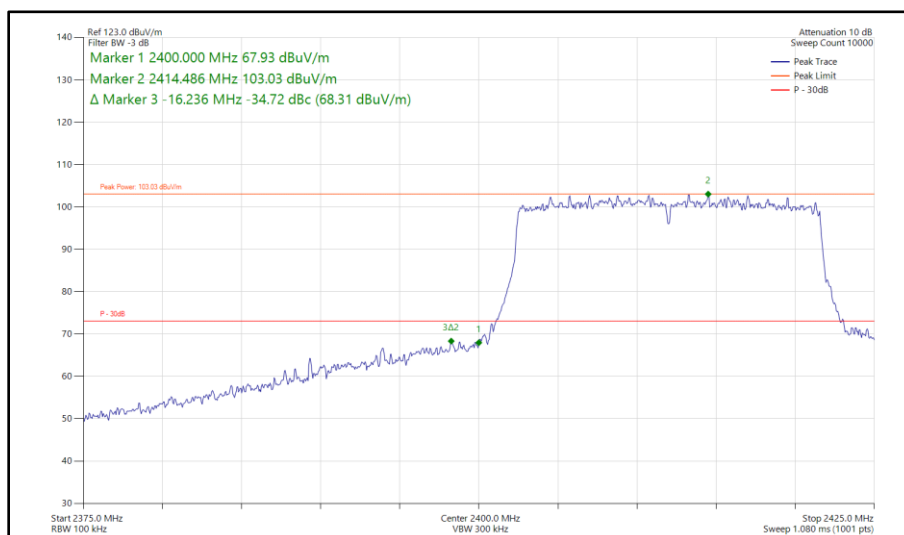


Figure 149 - 802.11n HT20, SISO, Core 0 - 2422 MHz
Band Edge Frequency 2400 MHz



**Figure 150 - 802.11n HT20, SISO, Core 0 - 2427 MHz
Band Edge Frequency 2400 MHz**



**Figure 151 - 802.11ax HE20, SU, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz**

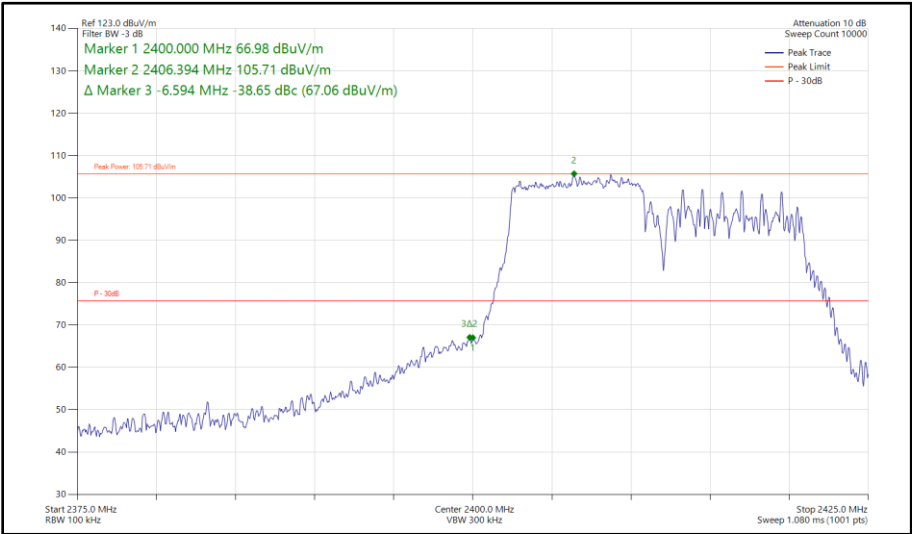


Figure 152 - 802.11ax HE20, RU 106-53, SISO, Core 0 - 2412 MHz
Band Edge Frequency 2400 MHz

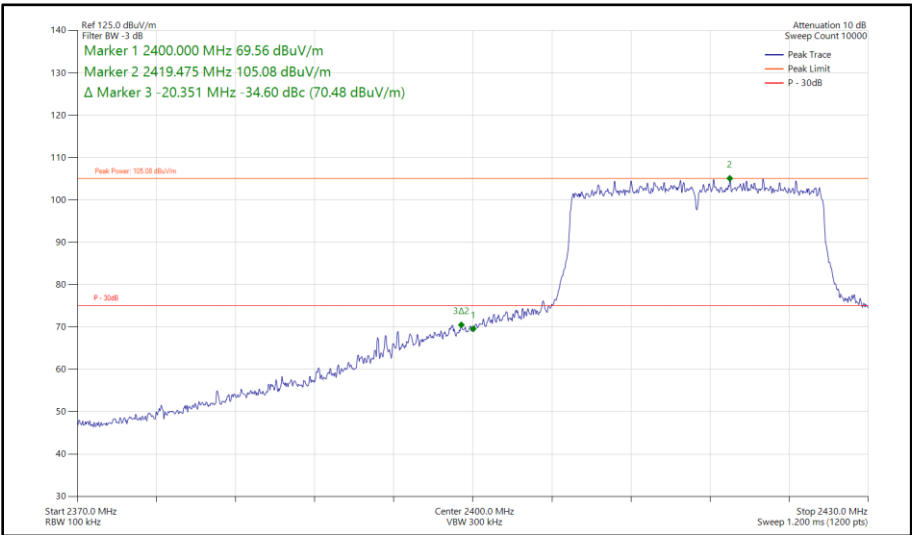
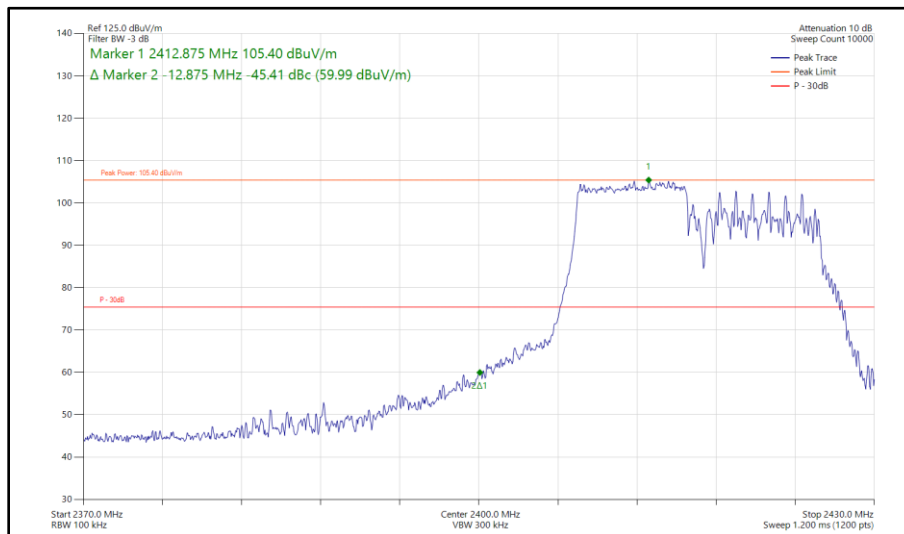
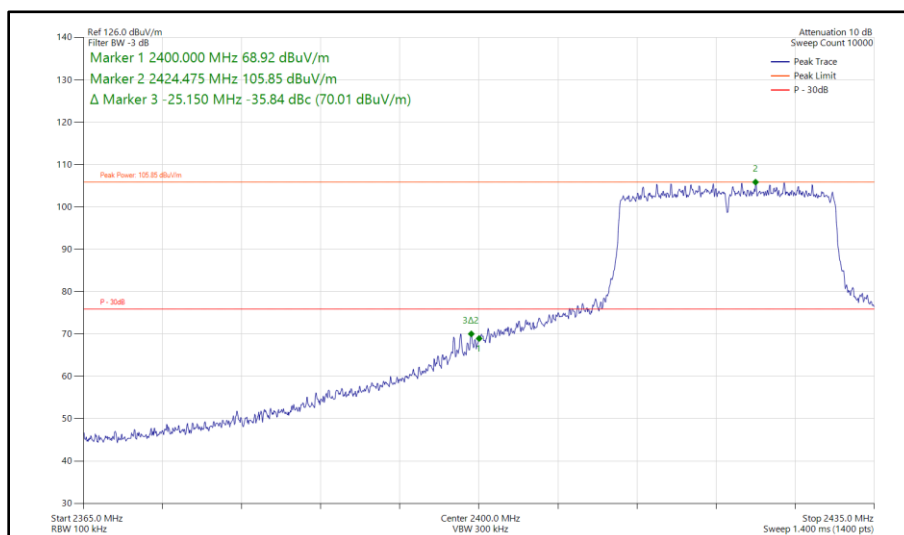


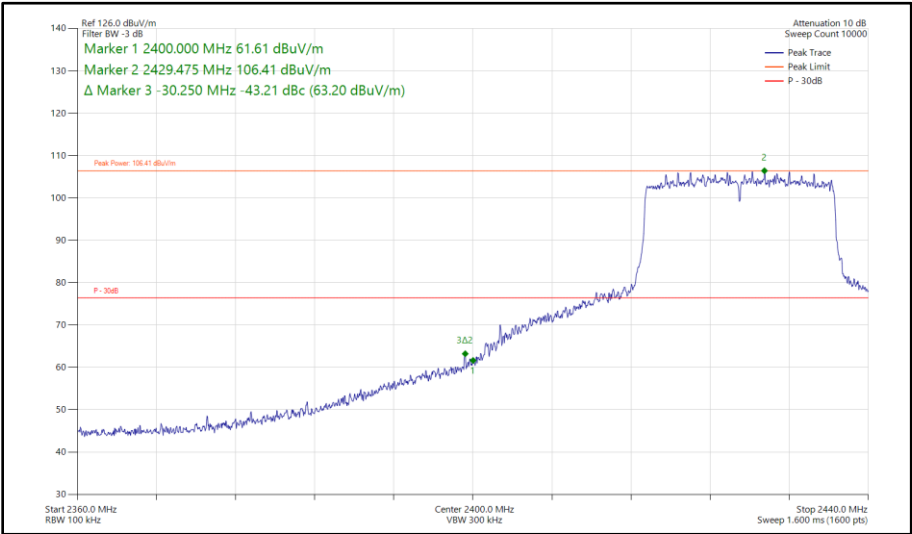
Figure 153 - 802.11ax HE20, SU, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz



**Figure 154 - 802.11ax HE20, RU 106-53, SISO, Core 0 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 155 - 802.11ax HE20, SU, SISO, Core 0 - 2422 MHz
Band Edge Frequency 2400 MHz**

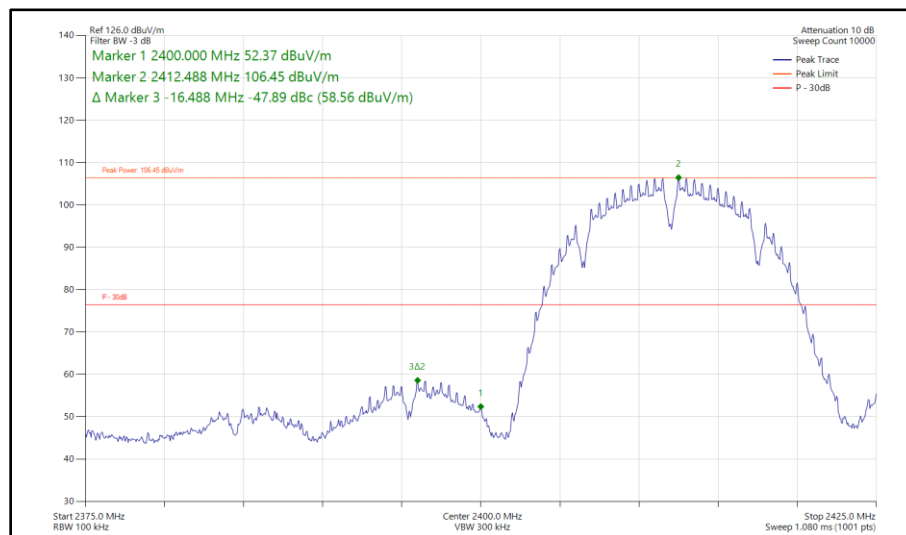


**Figure 156 - 802.11ax HE20, SU, SISO, Core 0 - 2427 MHz
Band Edge Frequency 2400 MHz**

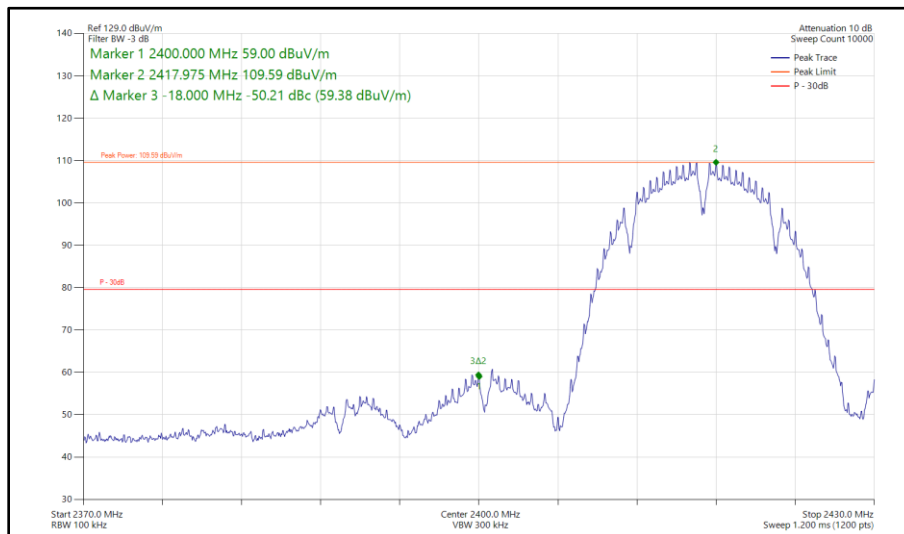
20 MHz Bandwidth - Core 1 (SISO)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
802.11b	1 Mbps	-	-	2412	2400	-47.89
802.11b	1 Mbps	-	-	2417	2400	-50.21
802.11g	24 Mbps	-	-	2412	2400	-34.52
802.11g	54 Mbps	-	-	2417	2400	-35.17
802.11g	54 Mbps	-	-	2422	2400	-40.46
802.11g	54 Mbps	-	-	2427	2400	-47.05
802.11n HT20	MCS 4	-	-	2412	2400	-35.67
802.11n HT20	MCS 7	-	-	2417	2400	-35.75
802.11n HT20	MCS 7	-	-	2422	2400	-36.40
802.11n HT20	MCS 7	-	-	2427	2400	-44.70
802.11ax HE20	MCS 9x1	SU	-	2412	2400	-34.82
802.11ax HE20	MCS 9x1	106	53	2412	2400	-39.96
802.11ax HE20	MCS 9x1	SU	-	2417	2400	-34.71
802.11ax HE20	MCS 9x1	106	53	2417	2400	-45.99
802.11ax HE20	MCS 9x1	SU	-	2422	2400	-35.17
802.11ax HE20	MCS 9x1	SU	-	2427	2400	-42.78

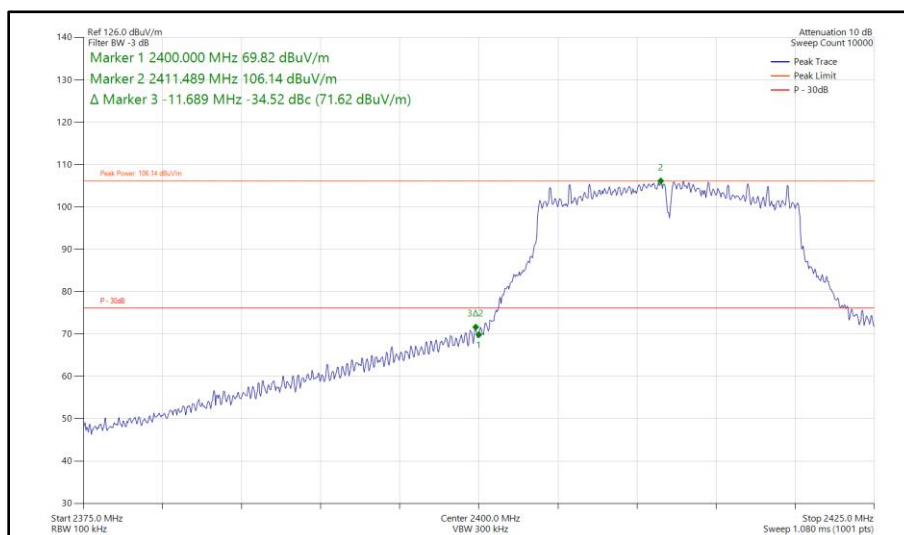
Table 56 - SISO Authorised Band Edge Results



**Figure 157 - 802.11b, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz**



**Figure 158 - 802.11b, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 159 - 802.11g, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz**

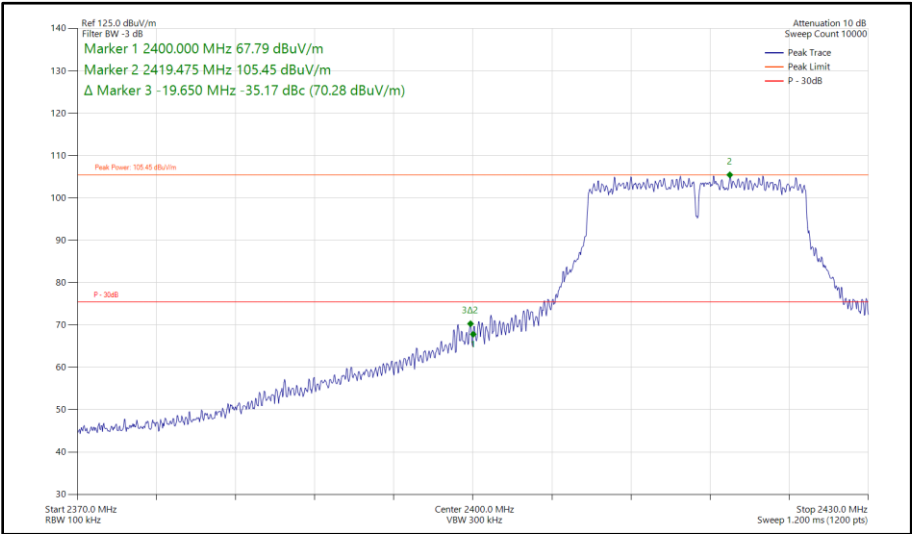


Figure 160 - 802.11g, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz

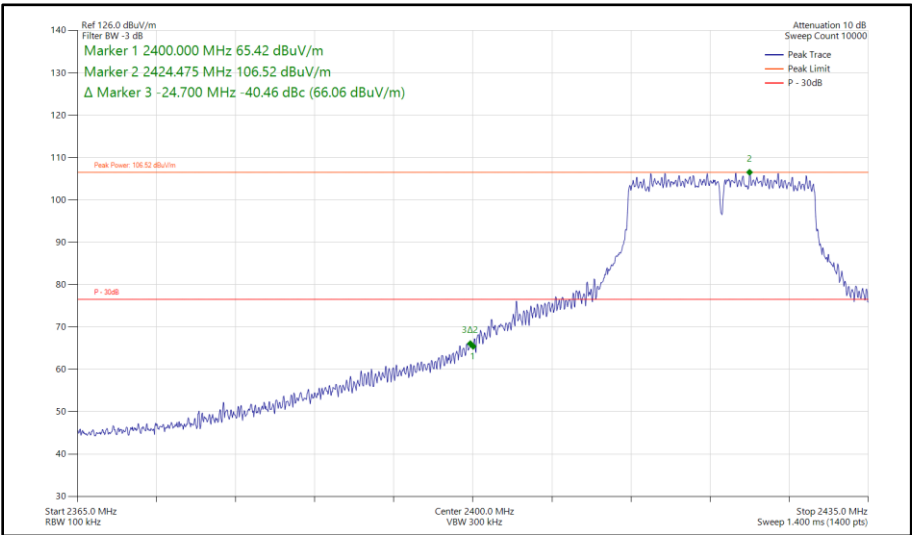


Figure 161 - 802.11g, SISO, Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz

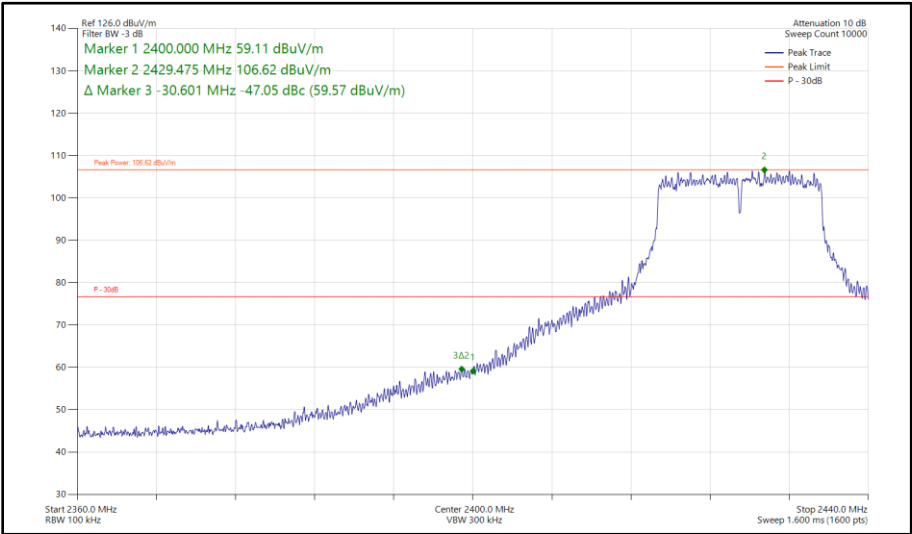


Figure 162 - 802.11g, SISO, Core 1 - 2427 MHz
Band Edge Frequency 2400 MHz

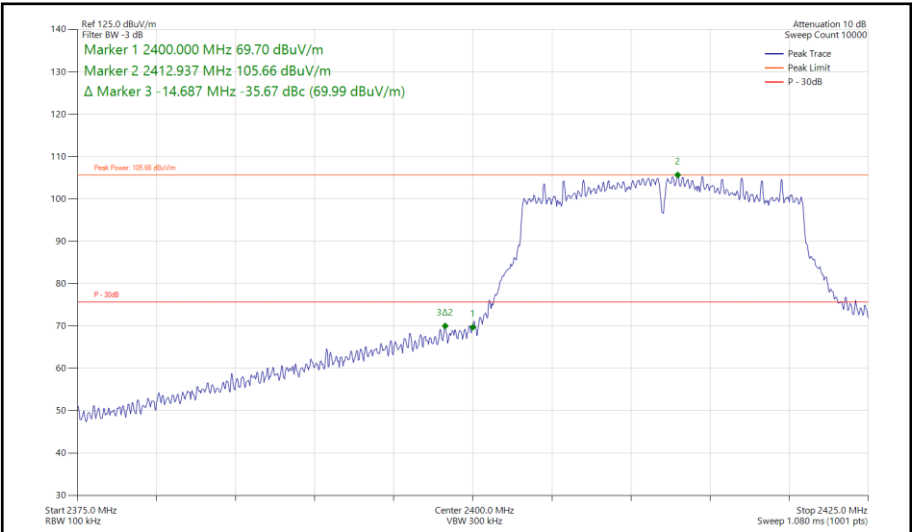


Figure 163 - 802.11n HT20, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz

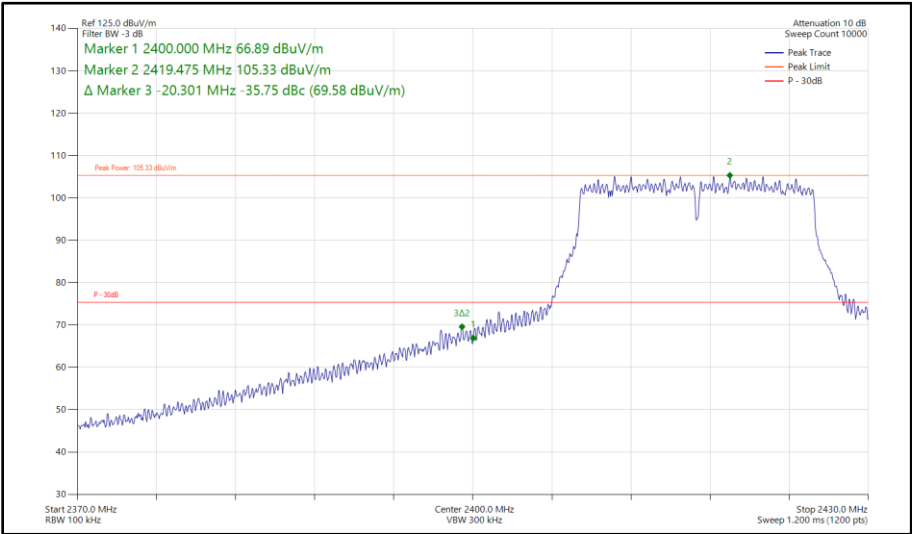


Figure 164 - 802.11n HT20, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz

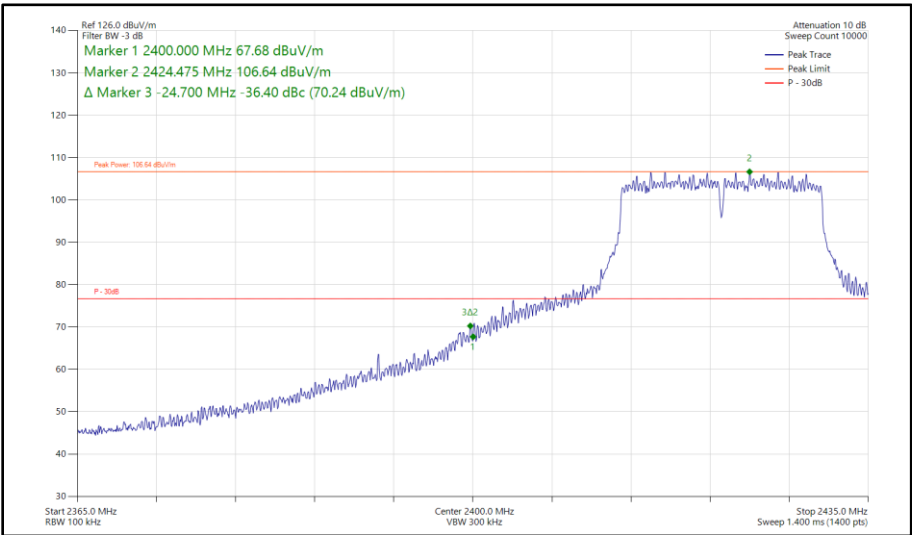
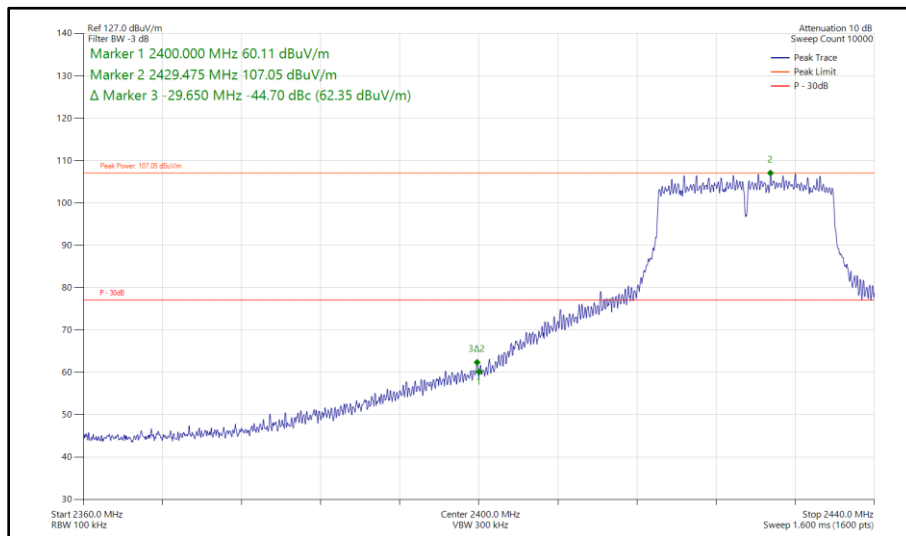
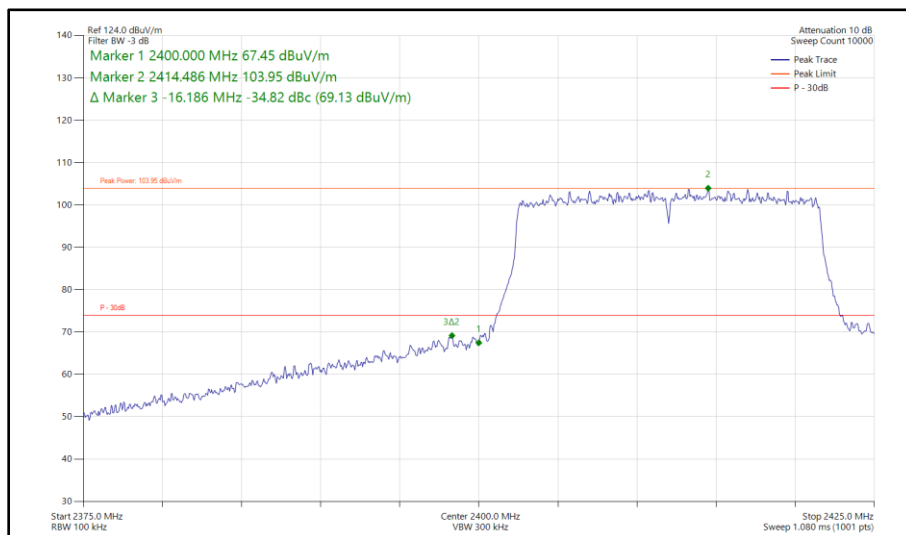


Figure 165 - 802.11n HT20, SISO, Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz



**Figure 166 - 802.11n HT20, SISO, Core 1 - 2427 MHz
Band Edge Frequency 2400 MHz**



**Figure 167 - 802.11ax HE20, SU, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz**

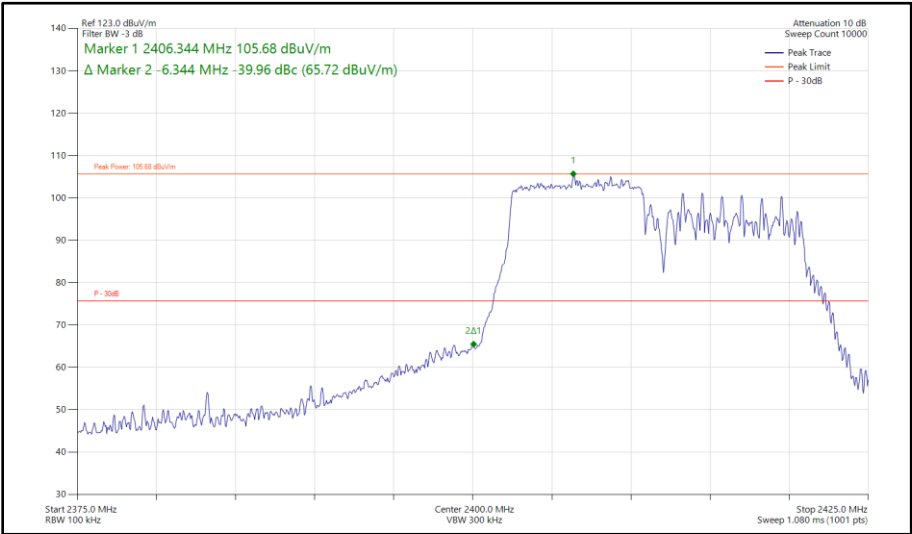


Figure 168 - 802.11ax HE20, RU 106-53, SISO, Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz

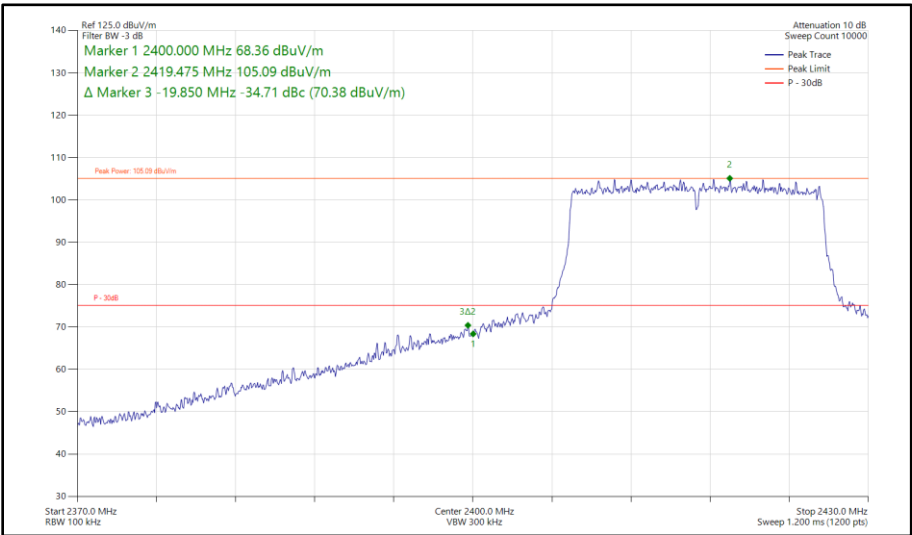
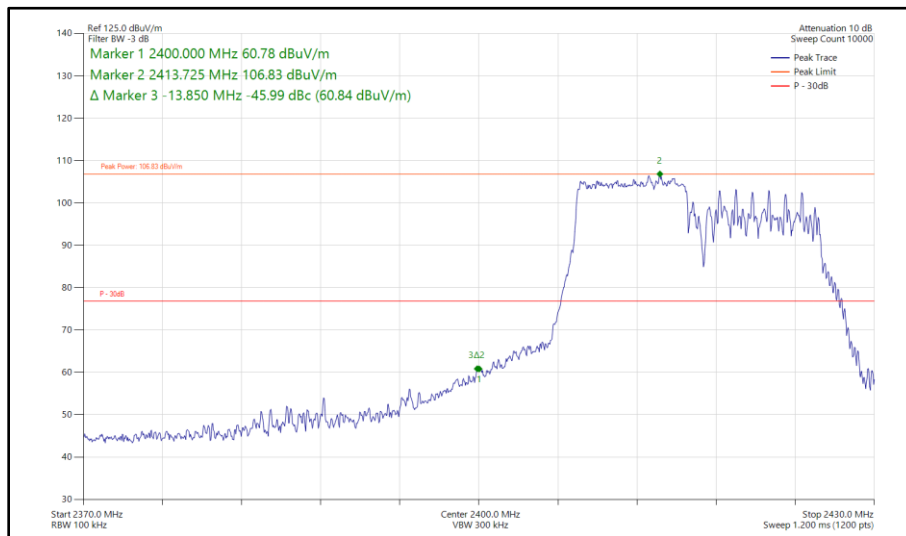
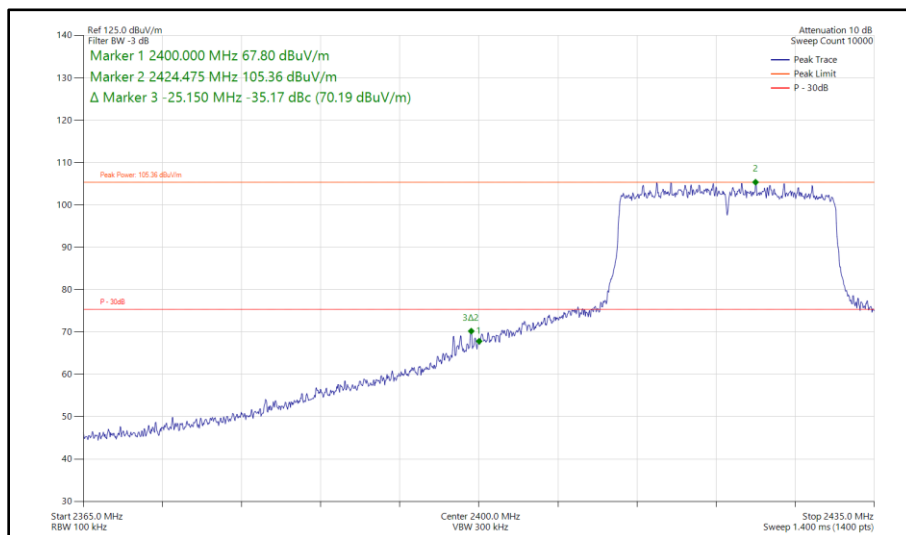


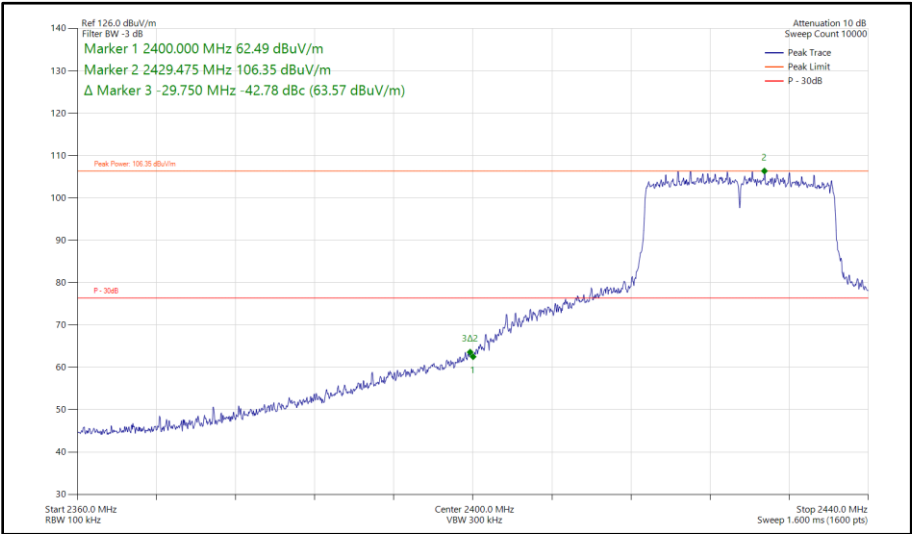
Figure 169 - 802.11ax HE20, SU, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz



**Figure 170 - 802.11ax HE20, RU 106-53, SISO, Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 171 - 802.11ax HE20, SU, SISO, Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz**

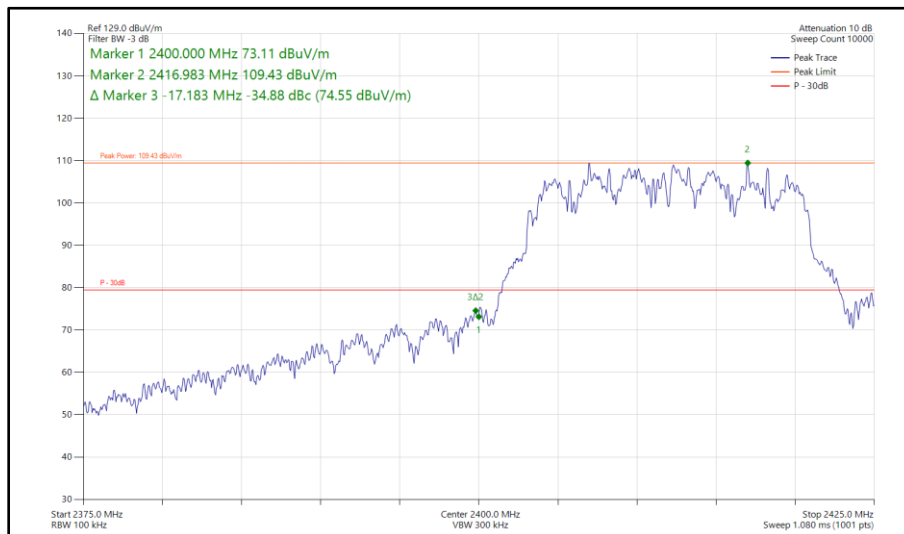


**Figure 172 - 802.11ax HE20, SU, SISO, Core 1 - 2427 MHz
Band Edge Frequency 2400 MHz**

20 MHz Bandwidth - Core 0 - Core 1 (CDD)

Mode	Data Rate/ MCS	Resource Size	Resource Index	TX Frequency (MHz)	Band Edge Frequency (MHz)	Level (dBc)
802.11n HT20	MCS 4	-	-	2412	2400	-34.88
802.11n HT20	MCS 7	-	-	2417	2400	-35.53
802.11n HT20	MCS 7	-	-	2422	2400	-38.89
802.11n HT20	MCS 7	-	-	2427	2400	-44.80
802.11n HT20	MCS 7	-	-	2432	2400	-49.52
802.11ax HE20	MCS 9x1	SU	-	2412	2400	-34.75
802.11ax HE20	MCS 9x1	106	53	2412	2400	-37.53
802.11ax HE20	MCS 9x1	SU	-	2417	2400	-34.97
802.11ax HE20	MCS 9x1	106	53	2417	2400	-48.65
802.11ax HE20	MCS 9x1	SU	-	2422	2400	-35.68
802.11ax HE20	MCS 9x1	106	53	2422	2400	-53.41
802.11ax HE20	MCS 9x1	SU	-	2427	2400	-44.00
802.11ax HE20	MCS 9x1	SU	-	2432	2400	-47.45

Table 57 - CDD Authorised Band Edge Results



**Figure 173 - 802.11n HT20, CDD, Core 0 - Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz**

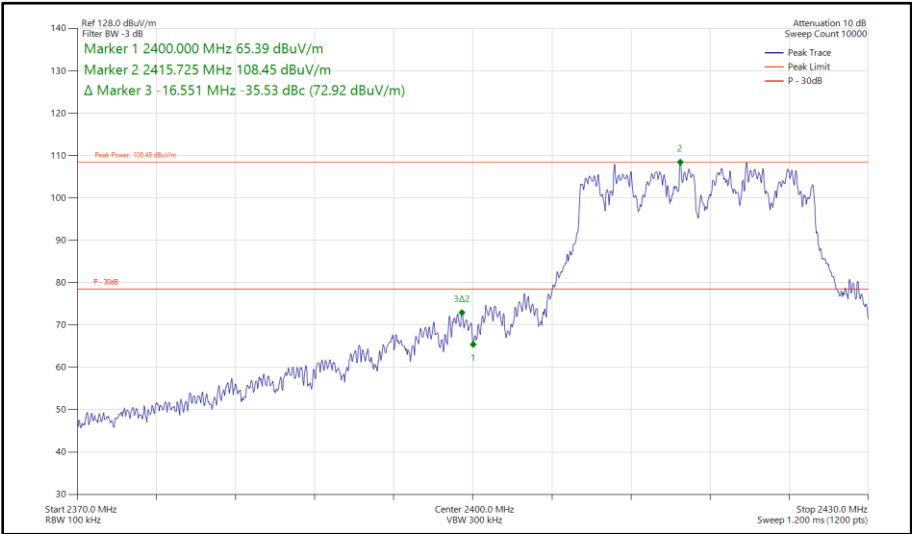


Figure 174 - 802.11n HT20, CDD, Core 0 - Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz

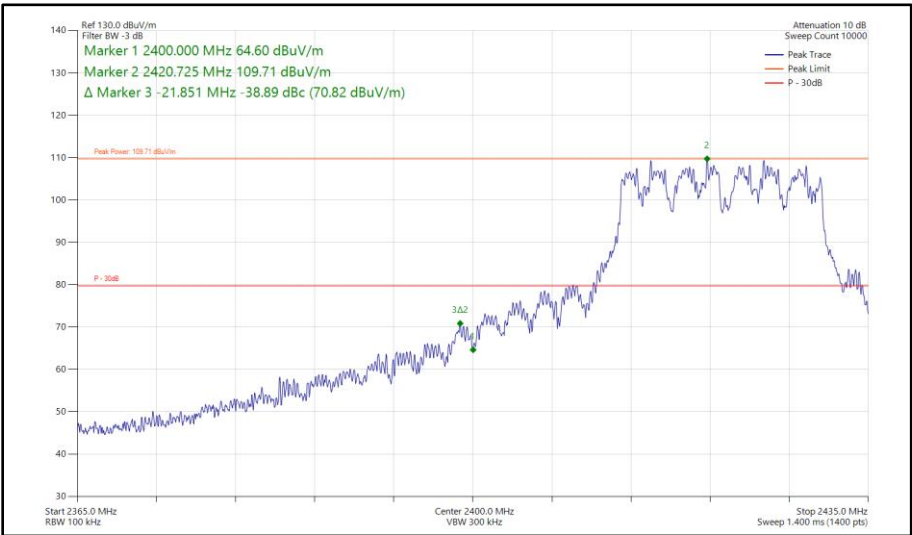


Figure 175 - 802.11n HT20, CDD, Core 0 - Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz

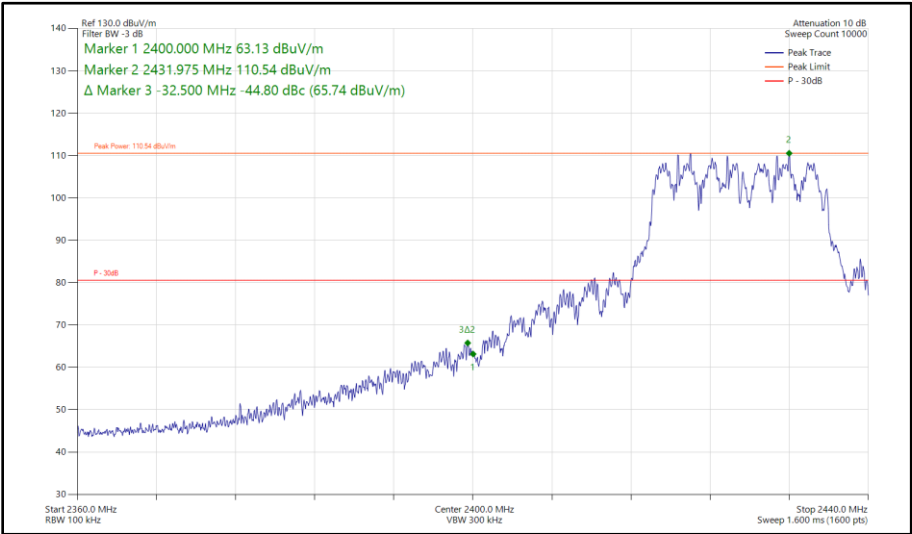


Figure 176 - 802.11n HT20, CDD, Core 0 - Core 1 - 2427 MHz
Band Edge Frequency 2400 MHz

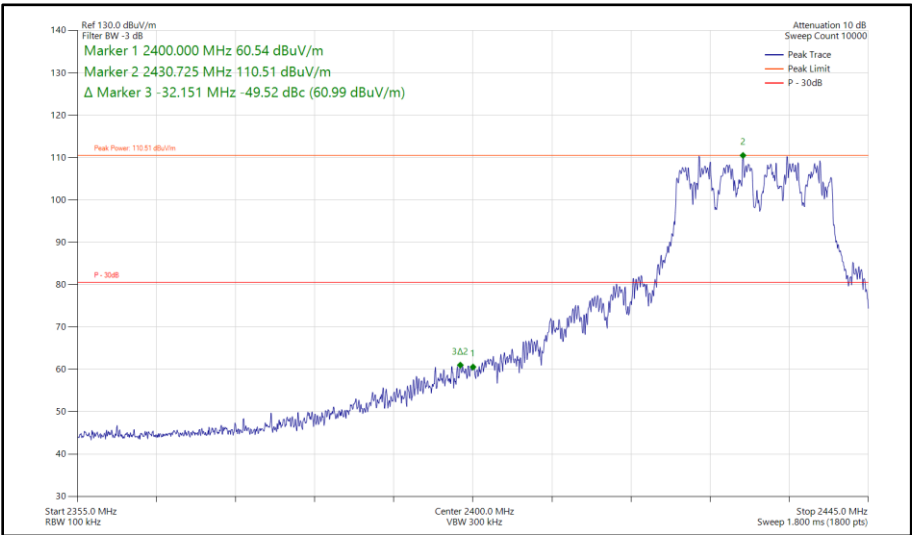


Figure 177 - 802.11n HT20, CDD, Core 0 - Core 1 - 2432 MHz
Band Edge Frequency 2400 MHz

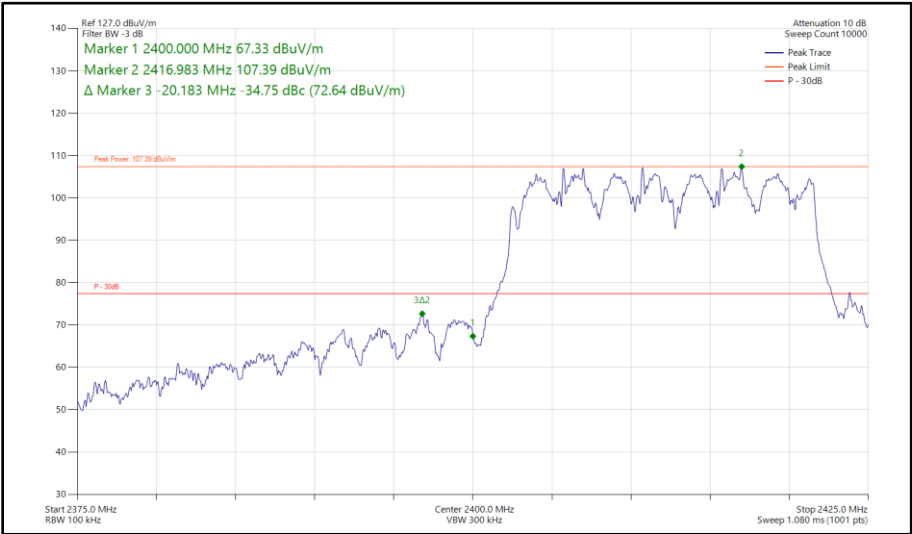


Figure 178 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz

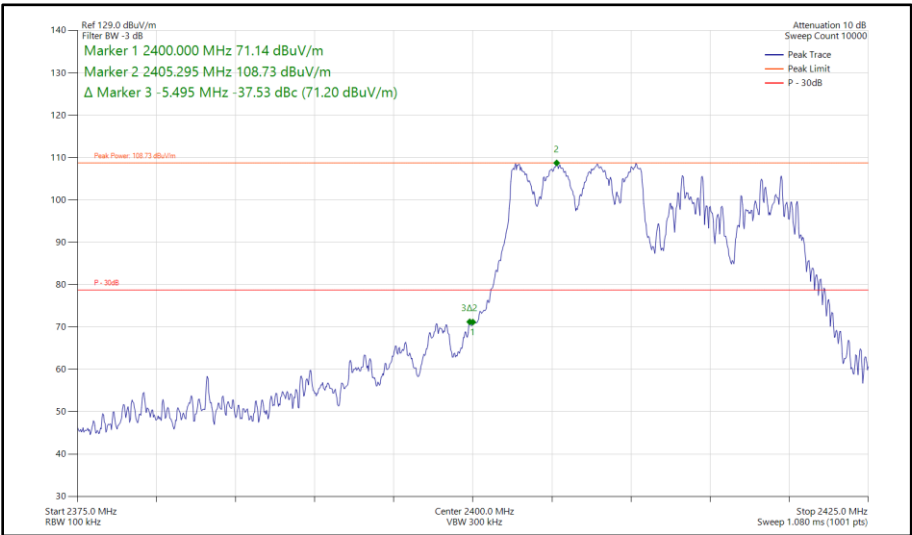
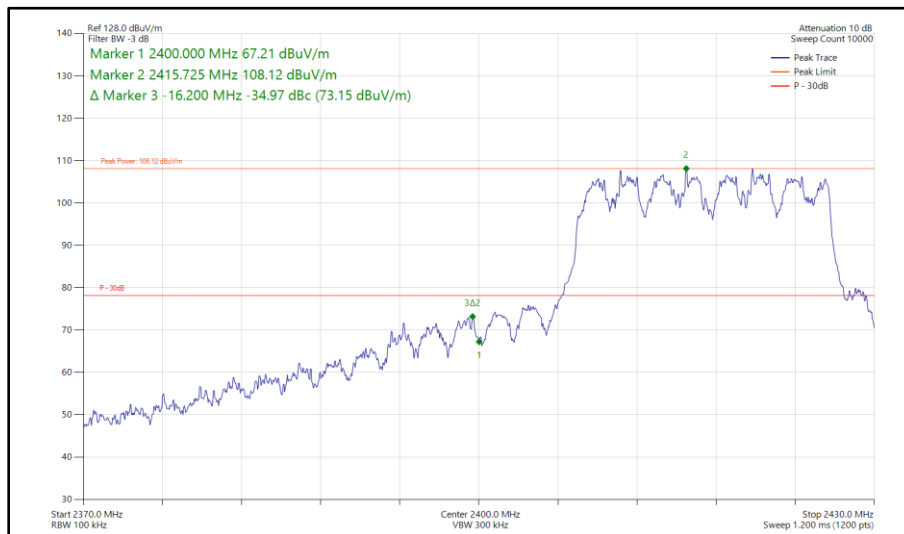
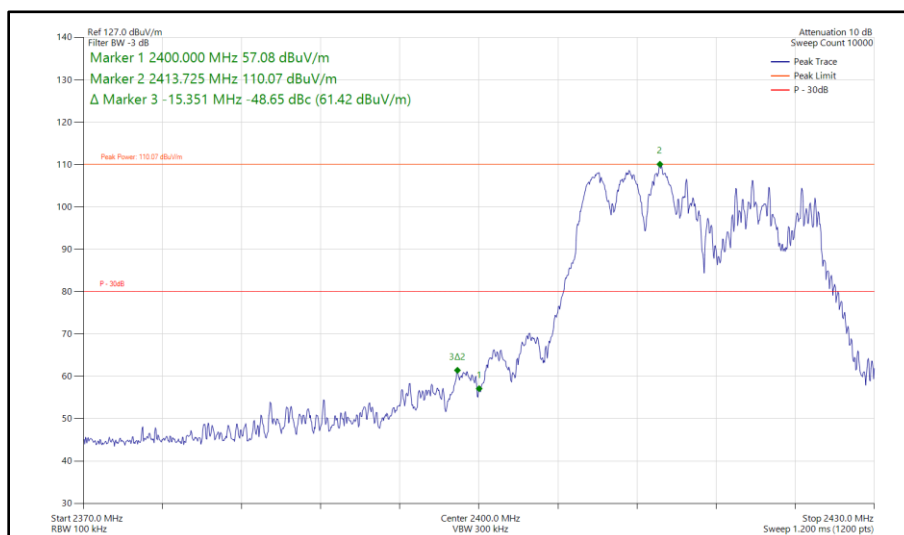


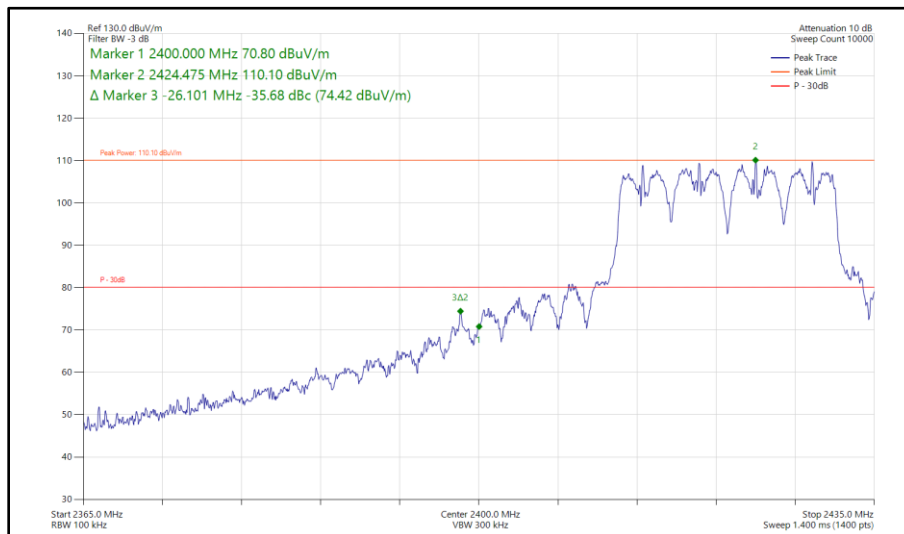
Figure 179 - 802.11ax HE20, RU 106-53, CDD, Core 0 - Core 1 - 2412 MHz
Band Edge Frequency 2400 MHz



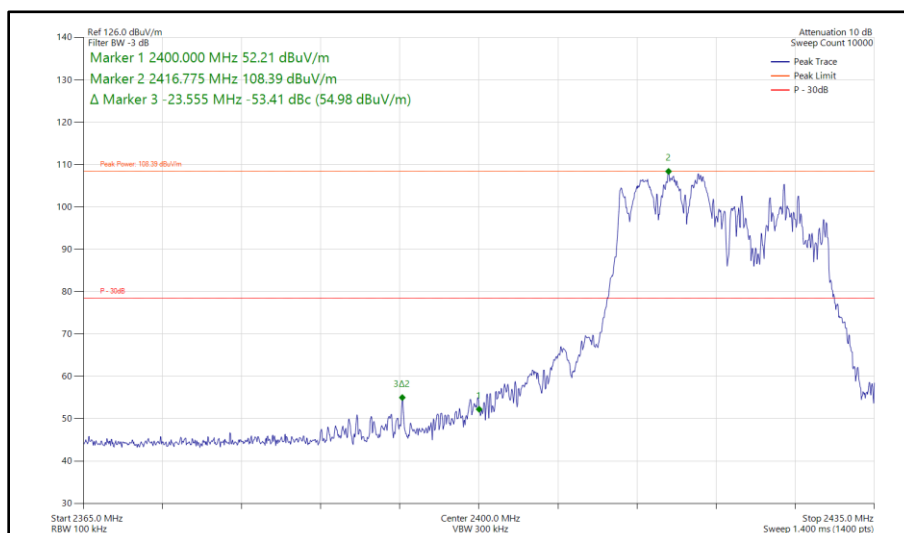
**Figure 180 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 181 - 802.11ax HE20, RU 106-53, CDD, Core 0 - Core 1 - 2417 MHz
Band Edge Frequency 2400 MHz**



**Figure 182 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz**



**Figure 183 - 802.11ax HE20, RU 106-53, CDD, Core 0 - Core 1 - 2422 MHz
Band Edge Frequency 2400 MHz**

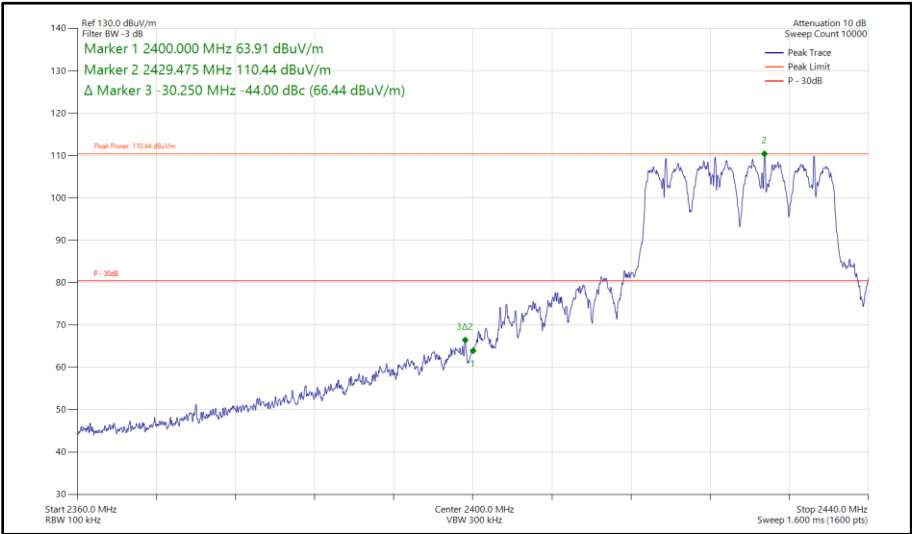


Figure 184 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2427 MHz
Band Edge Frequency 2400 MHz

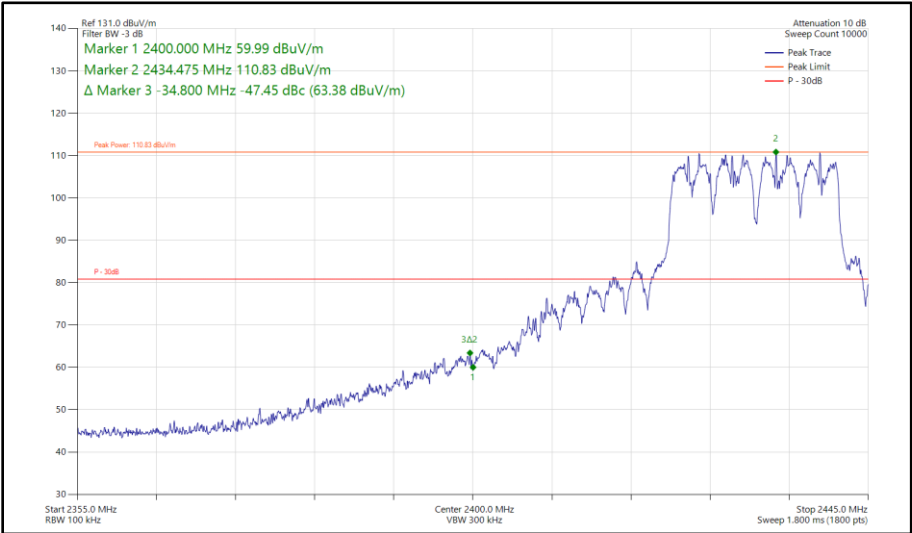


Figure 185 - 802.11ax HE20, SU, CDD, Core 0 - Core 1 - 2432 MHz
Band Edge Frequency 2400 MHz



FCC 47 CFR Part 15, Limit Clause 15.247 (d)

20 dB below the fundamental measured in a 100 kHz bandwidth using a peak detector. If the transmitter complies with the conducted power limits, based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB below the fundamental instead of 20 dB.

ISED RSS-247, Limit Clause 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.



2.4.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 14 and RF Chamber 15.

Instrument	Manufacturer	Type No.	TE No.	Calibration Period (months)	Calibration Expiry Date
Emissions Software	TUV SUD	EmX V3.2.0	5125	-	Software
EMI Test Receiver	Rohde & Schwarz	ESW44	5911	12	11-Sep-2024
EMI Test Receiver	Rohde & Schwarz	ESW44	5912	12	05-Jul-2024
Test Receiver	Rohde & Schwarz	ESW44	5914	12	24-May-2025
1500W (300V 12A) AC Power Supply	iTech	IT7324	5955	-	O/P Mon
1500W (300V 12A) AC Power Supply	iTech	IT7324	5956	-	O/P Mon
5m Semi-Anechoic Chamber (Dual-Axis)	Albatross Projects	RF Chamber 14	5958	36	26-Apr-2025
Compact Antenna Mast	Maturo Gmbh	CAM4.0-P	5959	-	TU
Mast & Turntable Controller	Maturo Gmbh	FCU3.0	5960	-	TU
Tilt Antenna Mast	Maturo Gmbh	BAM4.5-P	5961	-	TU
Turntable	Maturo Gmbh	TT1.5SI	5962	-	TU
5m Semi-Anechoic Chamber (Dual-Axis), Chamber 15	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	20-May-2025
Cable (SMA to SMA 1m)	Junkosha	MWX221-01000AMSAMS/A	5997	12	14-Sep-2024
Cable (SMA to SMA 4.5m)	Junkosha	MWX221-04500AMSAMS/A	6002	12	14-Sep-2024
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/A	6021	12	14-Sep-2024
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6140	12	05-May-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6141	12	05-May-2025
Horn Antenna (1-10 GHz)	Schwarzbeck	BBHA9120B	6142	12	05-May-2025
Digital Multimeter	Fluke	115	6145	12	15-Jun-2024
Digital Multimeter	Fluke	115	6147	12	16-Jun-2024
Humidity & Temperature meter	R.S Components	1364	6148	12	21-Jul-2024
Humidity & Temperature meter	R.S Components	1364	6149	12	07-Jul-2024
SAC Switch Unit	TUV SUD	TUV_SSU_001	6190	12	22-Dec-2024
Cable (SMA to SMA 3m)	Junkosha	MWX221-03000AMSAMS/A	6316	12	04-Feb-2025
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6740	12	01-Feb-2025
1m Cable	Junkosha	MWX241-01000AMSAMS/B	6741	12	01-Feb-2025
6.5m Cable	Junkosha	MWX221-06500AMSAMS/B	6744	12	01-Feb-2025

Table 58

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment



2.5 Spurious Radiated Emissions

2.5.1 Specification Reference

FCC 47 CFR Part 15C, Clause 15.209 and 15.247 (d)
ISED RSS-247, Clause 3.3 and 5.5
ISED RSS-GEN, Clause 6.13 and 8.9

2.5.2 Equipment Under Test and Modification State

A3238, S/N: NQMK2V7Q9C - Modification State 0
A3238, S/N: V4KFHR9J44 - Modification State 0

2.5.3 Date of Test

11-June-2024 to 27-June-2024

2.5.4 Test Method

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

Ports on the EUT were terminated with loads as described in ANSI C63.10 clause 6.2.3.

The EUT was placed on the non-conducting platform in a manner typical of a normal installation.

In the 30 MHz to 1 GHz range pre-scans were only performed on the mid channel (2442 MHz) only.

For frequencies > 1 GHz, plots for average measurements were taken in accordance with ANSI C63.10, clause 11.12.2.5.2.

The plots shown are the characterisation of the EUT. The limits on the plots represent the most stringent case for restricted bands, (74/54 dBuV/m) when compared to 30 dBc outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 10 dB 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:
 $10^{(\text{Field Strength in dBuV/m}/20)}$.

Above 18 GHz, the measurement distance was reduced to 1 m. The limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54$ dB.

Where formal measurements have been necessary, the results have been presented in the emissions table.

2.5.5 Example Test Setup Diagram

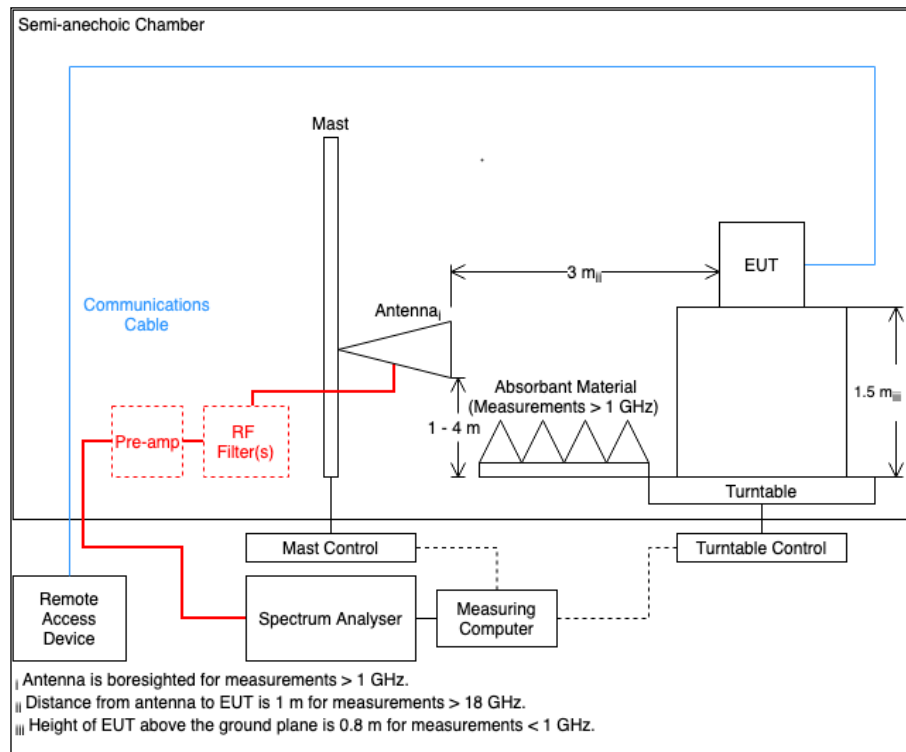


Figure 186

2.5.6 Environmental Conditions

Ambient Temperature	20.5 - 24.3 °C
Relative Humidity	37.2 - 49.0 %