

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-2C Low Channel 5510MHz									
213.55	38.20	QP	82	1.9	H	-11.62	26.58	43.50	-16.92
213.55	39.52	QP	335	1.4	V	-11.62	27.90	43.50	-15.60
4508.12	42.03	PK	74	1.1	H	-1.89	40.14	74.00	-33.86
4508.12	41.39	Ave	74	1.1	H	-1.89	39.50	54.00	-14.50
5117.07	44.96	PK	173	1.2	H	-1.06	43.90	74.00	-30.10
5117.07	37.84	Ave	173	1.2	H	-1.06	36.78	54.00	-17.22
11020.00	39.24	PK	16	1.6	H	5.26	44.50	74.00	-29.50
11020.00	41.40	Ave	16	1.6	H	5.26	46.66	54.00	-7.34
802.11ac(VHT40) U-NII-2C Middle channel 5550MHz									
213.55	31.71	QP	74	1.4	H	-11.62	20.09	43.50	-23.41
213.55	40.41	QP	303	1.1	V	-11.62	28.79	43.50	-14.71
4538.44	38.95	PK	266	1.3	H	-1.94	37.01	74.00	-36.99
4538.44	41.76	Ave	266	1.3	H	-1.94	39.82	54.00	-14.18
5122.56	49.07	PK	353	1.9	H	-1.06	48.01	74.00	-25.99
5122.56	37.17	Ave	353	1.9	H	-1.06	36.11	54.00	-17.89
11100.00	37.34	PK	133	1.1	H	5.28	42.62	74.00	-31.38
11100.00	41.55	Ave	133	1.1	H	5.28	46.83	54.00	-7.17
802.11ac(VHT40) U-NII-2C High channel 5670MHz									
213.55	32.50	QP	152	1.8	H	-11.62	20.88	43.50	-22.62
213.55	41.16	QP	184	1.6	V	-11.62	29.54	43.50	-13.96
4509.53	38.61	PK	277	1.8	H	-1.94	36.67	74.00	-37.33
4509.53	42.75	Ave	277	1.8	H	-1.94	40.81	54.00	-13.19
5133.81	51.05	PK	89	1.2	H	-1.06	49.99	74.00	-24.01
5133.81	37.87	Ave	89	1.2	H	-1.06	36.81	54.00	-17.19
11340.00	37.77	PK	127	1.7	H	5.28	43.05	74.00	-30.95
11340.00	39.74	Ave	127	1.7	H	5.28	45.02	54.00	-8.98

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-3 Low Channel 5755MHz									
213.55	32.87	QP	286	1.9	H	-11.62	21.25	43.50	-22.25
213.55	47.54	QP	318	1.9	V	-11.62	35.92	43.50	-7.58
4500.20	45.63	PK	275	1.9	H	-1.92	43.71	74.00	-30.29
4500.20	35.81	Ave	275	1.9	H	-1.92	33.89	54.00	-20.11
5367.68	39.31	PK	269	1.4	H	5.88	45.19	74.00	-28.81
5367.68	26.78	Ave	269	1.4	H	5.88	32.66	54.00	-21.34
11510.00	45.38	PK	122	1.7	H	-1.07	44.31	74.00	-29.69
11510.00	37.07	Ave	122	1.7	H	-1.07	36.00	54.00	-18.00
802.11ac(VHT40) U-NII-3 High Channel 5795MHz									
213.55	32.82	QP	65	1.3	H	-11.62	21.20	43.50	-22.30
213.55	47.53	QP	324	1.9	V	-11.62	35.91	43.50	-7.59
4532.72	45.39	PK	6	1.8	H	-1.86	43.53	74.00	-30.47
4532.72	36.74	Ave	6	1.8	H	-1.86	34.88	54.00	-19.12
5360.43	42.50	PK	73	1.6	H	5.63	48.13	74.00	-25.87
5360.43	29.09	Ave	73	1.6	H	5.63	34.72	54.00	-19.28
11590.00	46.62	PK	313	1.8	H	-1.03	45.59	74.00	-28.41
11590.00	37.63	Ave	313	1.8	H	-1.03	36.60	54.00	-17.40

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE20) U-NII-1 Low Channel 5180MHz									
213.55	31.33	QP	125	1.6	H	-11.62	19.71	43.50	-23.79
213.55	39.66	QP	28	1.7	V	-11.62	28.04	43.50	-15.46
4529.21	45.16	PK	80	1.3	H	-1.86	43.30	74.00	-30.70
4529.21	38.15	Ave	80	1.3	H	-1.86	36.29	54.00	-17.71
5116.35	38.98	PK	214	1.6	H	-1.06	37.92	74.00	-36.08
5116.35	38.07	Ave	214	1.6	H	-1.06	37.01	54.00	-16.99
10360.00	45.16	PK	100	1.1	H	5.33	50.49	74.00	-23.51
10360.00	38.75	Ave	100	1.1	H	5.33	44.08	54.00	-9.92
802.11ax (HE20) U-NII-1 Middle channel 5200MHz									
213.55	31.25	QP	32	1.5	H	-11.62	19.63	43.50	-23.87
213.55	38.68	QP	138	1.6	V	-11.62	27.06	43.50	-16.44
4515.91	44.62	PK	75	1.1	H	-1.82	42.80	74.00	-31.20
4515.91	38.11	Ave	75	1.1	H	-1.82	36.29	54.00	-17.71
5110.22	38.34	PK	194	1.6	H	-1.06	37.28	74.00	-36.72
5110.22	39.25	Ave	194	1.6	H	-1.06	38.19	54.00	-15.81
10400.00	41.68	PK	131	1.6	H	5.21	46.89	74.00	-27.11
10400.00	29.07	Ave	131	1.6	H	5.21	34.28	54.00	-19.72

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE20) U-NII-1 High channel 5240MHz									
213.55	31.30	QP	225	2.0	H	-11.62	19.68	43.50	-23.82
213.55	39.12	QP	170	1.8	V	-11.62	27.50	43.50	-16.00
4528.48	45.49	PK	158	1.5	H	-1.81	43.68	74.00	-30.32
4528.48	39.05	Ave	158	1.5	H	-1.81	37.24	54.00	-16.76
5144.43	38.67	PK	139	1.0	H	-1.06	37.61	74.00	-36.39
5144.43	38.86	Ave	139	1.0	H	-1.06	37.80	54.00	-16.20
10480.00	40.76	PK	60	1.9	H	5.14	45.90	74.00	-28.10
10480.00	28.93	Ave	60	1.9	H	5.14	34.07	54.00	-19.93
802.11ax (HE20) U-NII-2A Low Channel 5260MHz									
213.55	39.26	QP	28	1.2	H	-11.62	27.64	43.50	-15.86
213.55	39.02	QP	63	1.3	V	-11.62	27.40	43.50	-16.10
4536.34	41.41	PK	160	1.4	H	-2.03	39.38	74.00	-34.62
4536.34	29.44	Ave	160	1.4	H	-2.03	27.41	54.00	-26.59
5147.26	47.55	PK	228	1.4	H	-1.02	46.53	74.00	-27.47
5147.26	39.11	Ave	228	1.4	H	-1.02	38.09	54.00	-15.91
10520.00	38.11	PK	278	1.3	H	5.33	43.44	74.00	-30.56
10520.00	37.48	Ave	278	1.3	H	5.33	42.81	54.00	-11.19

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE20) U-NII-2A middle channel 5280MHz									
213.55	39.39	QP	246	1.8	H	-11.62	27.77	43.50	-15.73
213.55	38.31	QP	103	1.3	V	-11.62	26.69	43.50	-16.81
4535.93	40.15	PK	353	1.2	H	-1.94	38.21	74.00	-35.79
4535.93	28.14	Ave	353	1.2	H	-1.94	26.20	54.00	-27.80
5126.61	47.21	PK	211	1.5	H	-1.06	46.15	74.00	-27.85
5126.61	40.03	Ave	211	1.5	H	-1.06	38.97	54.00	-15.03
10560.00	36.78	PK	55	1.3	H	5.21	41.99	74.00	-32.01
10560.00	37.99	Ave	55	1.3	H	5.21	43.20	54.00	-10.80
802.11ax (HE20) U-NII-2A High channel 5320MHz									
213.55	38.98	QP	2	1.3	H	-11.62	27.36	43.50	-16.14
213.55	39.80	QP	217	1.9	V	-11.62	28.18	43.50	-15.32
4516.15	39.66	PK	21	1.9	H	-2.24	37.42	74.00	-36.58
4516.15	27.02	Ave	21	1.9	H	-2.24	24.78	54.00	-29.22
5146.43	46.62	PK	333	1.0	H	-1.09	45.53	74.00	-28.47
5146.43	39.95	Ave	333	1.0	H	-1.09	38.86	54.00	-15.14
10640.00	37.14	PK	228	1.1	H	5.14	42.28	74.00	-31.72
10640.00	38.36	Ave	228	1.1	H	5.14	43.50	54.00	-10.50

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE20) U-NII-2C Low Channel 5500MHz									
213.55	37.63	QP	7	2.0	H	-11.62	26.01	43.50	-17.49
213.55	41.29	QP	150	1.6	V	-11.62	29.67	43.50	-13.83
4519.70	36.30	PK	226	1.8	H	-2.03	34.27	74.00	-39.73
4519.70	37.87	Ave	226	1.8	H	-2.03	35.84	54.00	-18.16
5137.22	46.38	PK	113	1.3	H	-1.02	45.36	74.00	-28.64
5137.22	40.34	Ave	113	1.3	H	-1.02	39.32	54.00	-14.68
11000.00	37.73	PK	44	1.7	H	5.33	43.06	74.00	-30.94
11000.00	39.40	Ave	44	1.7	H	5.33	44.73	54.00	-9.27
802.11ax (HE20) U-NII-2C Middle channel 5600MHz									
213.55	39.02	QP	52	1.2	H	-11.62	27.40	43.50	-16.10
213.55	41.18	QP	27	1.7	V	-11.62	29.56	43.50	-13.94
4513.32	36.03	PK	244	1.2	H	-1.94	34.09	74.00	-39.91
4513.32	36.81	Ave	244	1.2	H	-1.94	34.87	54.00	-19.13
5130.19	45.86	PK	304	1.9	H	-1.06	44.80	74.00	-29.20
5130.19	40.60	Ave	304	1.9	H	-1.06	39.54	54.00	-14.46
11200.00	38.06	PK	309	1.7	H	5.21	43.27	74.00	-30.73
11200.00	40.28	Ave	309	1.7	H	5.21	45.49	54.00	-8.51

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE20) U-NII-2C High channel 5700MHz									
213.55	40.48	QP	78	1.9	H	-11.62	28.86	43.50	-14.64
213.55	42.47	QP	55	1.2	V	-11.62	30.85	43.50	-12.65
4506.67	36.32	PK	36	1.5	H	-2.24	34.08	74.00	-39.92
4506.67	37.94	Ave	36	1.5	H	-2.24	35.70	54.00	-18.30
5134.67	45.25	PK	179	1.2	H	-1.09	44.16	74.00	-29.84
5134.67	40.62	Ave	179	1.2	H	-1.09	39.53	54.00	-14.47
11400.00	38.02	PK	1	1.9	H	5.14	43.16	74.00	-30.84
11400.00	40.06	Ave	1	1.9	H	5.14	45.20	54.00	-8.80
802.11ax (HE20) U-NII-3 Low Channel 5745MHz									
213.55	29.85	QP	163	1.4	H	-11.62	18.23	43.50	-25.27
213.55	39.32	QP	126	1.7	V	-11.62	27.70	43.50	-15.80
4510.81	43.74	PK	38	1.6	H	-1.92	41.82	74.00	-32.18
4510.81	36.74	Ave	38	1.6	H	-1.92	34.82	54.00	-19.18
5384.96	40.60	PK	74	1.9	H	5.93	46.53	74.00	-27.47
5384.96	28.09	Ave	74	1.9	H	5.93	34.02	54.00	-19.98
11490.00	45.26	PK	19	1.4	H	-1.03	44.23	74.00	-29.77
11490.00	38.76	Ave	19	1.4	H	-1.03	37.73	54.00	-16.27

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE20) U-NII-3 middle channel 5785MHz									
213.55	29.07	QP	284	1.4	H	-11.62	17.45	43.50	-26.05
213.55	38.33	QP	185	1.7	V	-11.62	26.71	43.50	-16.79
4503.08	43.68	PK	350	1.9	H	-1.97	41.71	74.00	-32.29
4503.08	35.99	Ave	350	1.9	H	-1.97	34.02	54.00	-19.98
5374.09	41.31	PK	315	1.7	H	5.81	47.12	74.00	-26.88
5374.09	29.94	Ave	315	1.7	H	5.81	35.75	54.00	-18.25
11570.00	45.12	PK	140	1.6	H	-1.05	44.07	74.00	-29.93
11570.00	37.51	Ave	140	1.6	H	-1.05	36.46	54.00	-17.54
802.11ax (HE20) U-NII-3 High channel 5825MHz									
213.55	28.30	QP	72	1.9	H	-11.62	16.68	43.50	-26.82
213.55	38.85	QP	35	1.6	V	-11.62	27.23	43.50	-16.27
4514.12	42.73	PK	287	1.8	H	-1.88	40.85	74.00	-33.15
4514.12	36.77	Ave	287	1.8	H	-1.88	34.89	54.00	-19.11
5389.31	42.46	PK	26	1.2	H	5.84	48.30	74.00	-25.70
5389.31	29.90	Ave	26	1.2	H	5.84	35.74	54.00	-18.26
11650.00	45.71	PK	339	1.1	H	-1.06	44.65	74.00	-29.35
11650.00	39.26	Ave	339	1.1	H	-1.06	38.20	54.00	-15.80

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE40) U-NII-1 Low Channel 5190MHz									
213.55	35.84	QP	338	1.0	H	-11.62	24.22	43.50	-19.28
213.55	42.24	QP	315	1.6	V	-11.62	30.62	43.50	-12.88
4537.64	52.80	PK	241	1.3	H	-1.91	50.89	74.00	-23.11
4537.64	31.83	Ave	241	1.3	H	-1.91	29.92	54.00	-24.08
5143.20	46.26	PK	44	1.2	H	-1.06	45.20	74.00	-28.80
5143.20	38.62	Ave	44	1.2	H	-1.06	37.56	54.00	-16.44
10380.00	40.32	PK	299	1.7	H	5.26	45.58	74.00	-28.42
10380.00	28.12	Ave	299	1.7	H	5.26	33.38	54.00	-20.62
802.11ax (HE40) U-NII-1 High channel 5230MHz									
213.55	35.75	QP	272	1.9	H	-11.62	24.13	43.50	-19.37
213.55	42.28	QP	27	1.0	V	-11.62	30.66	43.50	-12.84
4530.73	52.59	PK	264	1.6	H	-1.93	50.66	74.00	-23.34
4530.73	32.81	Ave	264	1.6	H	-1.93	30.88	54.00	-23.12
5143.33	46.37	PK	51	1.5	H	-1.06	45.31	74.00	-28.69
5143.33	38.65	Ave	51	1.5	H	-1.06	37.59	54.00	-16.41
10460.00	41.42	PK	62	1.1	H	5.28	46.70	74.00	-27.30
10460.00	30.19	Ave	62	1.1	H	5.28	35.47	54.00	-18.53

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE40) U-NII-2A Low Channel 5270MHz									
213.55	36.47	QP	138	1.4	H	-11.62	24.85	43.50	-18.65
213.55	37.81	QP	197	1.6	V	-11.62	26.19	43.50	-17.31
4509.97	41.06	PK	322	2.0	H	-1.89	39.17	74.00	-34.83
4509.97	30.46	Ave	322	2.0	H	-1.89	28.57	54.00	-25.43
5113.00	48.01	PK	242	1.6	H	-1.06	46.95	74.00	-27.05
5113.00	41.13	Ave	242	1.6	H	-1.06	40.07	54.00	-13.93
10540.00	41.03	PK	321	1.8	H	5.26	46.29	74.00	-27.71
10540.00	31.45	Ave	321	1.8	H	5.26	36.71	54.00	-17.29
802.11ax (HE40) U-NII-2A High channel 5310MHz									
213.55	35.32	QP	108	1.4	H	-11.62	23.70	43.50	-19.80
213.55	37.90	QP	347	1.3	V	-11.62	26.28	43.50	-17.22
4511.57	40.51	PK	184	1.4	H	-1.94	38.57	74.00	-35.43
4511.57	28.15	Ave	184	1.4	H	-1.94	26.21	54.00	-27.79
5139.44	46.97	PK	192	1.2	H	-1.06	45.91	74.00	-28.09
5139.44	40.01	Ave	192	1.2	H	-1.06	38.95	54.00	-15.05
10620.00	39.86	PK	43	1.3	H	5.28	45.14	74.00	-28.86
10620.00	41.25	Ave	43	1.3	H	5.28	46.53	54.00	-7.47

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE40) U-NII-2C Low Channel 5510MHz									
213.55	36.16	QP	325	1.7	H	-11.62	24.54	43.50	-18.96
213.55	40.43	QP	219	1.9	V	-11.62	28.81	43.50	-14.69
4532.80	40.61	PK	307	1.3	H	-1.89	38.72	74.00	-35.28
4532.80	41.41	Ave	307	1.3	H	-1.89	39.52	54.00	-14.48
5128.13	46.98	PK	84	2.0	H	-1.06	45.92	74.00	-28.08
5128.13	41.73	Ave	84	2.0	H	-1.06	40.67	54.00	-13.33
11020.00	36.86	PK	278	1.1	H	5.26	42.12	74.00	-31.88
11020.00	41.77	Ave	278	1.1	H	5.26	47.03	54.00	-6.97
802.11ax (HE40) U-NII-2C Middle channel 5550MHz									
213.55	36.70	QP	358	1.2	H	-11.62	25.08	43.50	-18.42
213.55	39.64	QP	91	1.1	V	-11.62	28.02	43.50	-15.48
4504.66	41.43	PK	248	1.8	H	-1.94	39.49	74.00	-34.51
4504.66	41.74	Ave	248	1.8	H	-1.94	39.80	54.00	-14.20
5116.85	48.64	PK	138	1.4	H	-1.06	47.58	74.00	-26.42
5116.85	40.87	Ave	138	1.4	H	-1.06	39.81	54.00	-14.19
11100.00	39.57	PK	66	1.5	H	5.28	44.85	74.00	-29.15
11100.00	42.01	Ave	66	1.5	H	5.28	47.29	54.00	-6.71
802.11ax (HE40) U-NII-2C High channel 5670MHz									
213.55	36.66	QP	311	1.9	H	-11.62	25.04	43.50	-18.46
213.55	40.63	QP	190	1.9	V	-11.62	29.01	43.50	-14.49
4520.81	41.29	PK	123	1.2	H	-1.94	39.35	74.00	-34.65
4520.81	40.83	Ave	123	1.2	H	-1.94	38.89	54.00	-15.11
5126.25	48.64	PK	239	1.9	H	-1.06	47.58	74.00	-26.42
5126.25	41.26	Ave	239	1.9	H	-1.06	40.20	54.00	-13.80
11340.00	39.62	PK	195	1.9	H	5.28	44.90	74.00	-29.10
11340.00	38.89	Ave	195	1.9	H	5.28	44.17	54.00	-9.83

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ax (HE40) U-NII-3 Low Channel 5755MHz									
213.55	34.64	QP	259	1.2	H	-11.62	23.02	43.50	-20.48
213.55	44.62	QP	256	1.1	V	-11.62	33.00	43.50	-10.50
4525.95	48.80	PK	152	1.5	H	-1.92	46.88	74.00	-27.12
4525.95	31.64	Ave	152	1.5	H	-1.92	29.72	54.00	-24.28
5371.55	39.22	PK	106	1.9	H	5.88	45.10	74.00	-28.90
5371.55	26.43	Ave	106	1.9	H	5.88	32.31	54.00	-21.69
11510.00	46.73	PK	278	1.4	H	-1.07	45.66	74.00	-28.34
11510.00	39.90	Ave	278	1.4	H	-1.07	38.83	54.00	-15.17
802.11ax (HE40) U-NII-3 High Channel 5795MHz									
213.55	34.72	QP	319	1.7	H	-11.62	23.10	43.50	-20.40
213.55	44.69	QP	105	1.8	V	-11.62	33.07	43.50	-10.43
4501.22	48.45	PK	220	1.1	H	-1.86	46.59	74.00	-27.41
4501.22	32.18	Ave	220	1.1	H	-1.86	30.32	54.00	-23.68
5380.31	40.55	PK	335	1.1	H	5.63	46.18	74.00	-27.82
5380.31	28.69	Ave	335	1.1	H	5.63	34.32	54.00	-19.68
11590.00	46.72	PK	194	1.5	H	-1.03	45.69	74.00	-28.31
11590.00	38.19	Ave	194	1.5	H	-1.03	37.16	54.00	-16.84

Test Frequency: 12GHz~40GHz

The measurements were more than 20 dB below the limit and not reported.

10 Band Edge

Test Requirement:	FCC 47CFR Part 15 Section 15.407
Test Method:	ANSI C63.10-2020+A1-2024
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27dBm/MHz. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
Test Result:	PASS

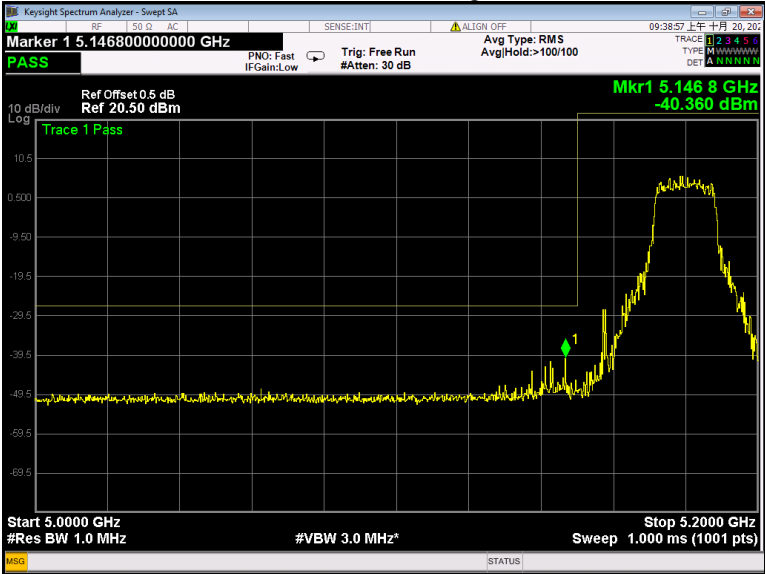
10.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

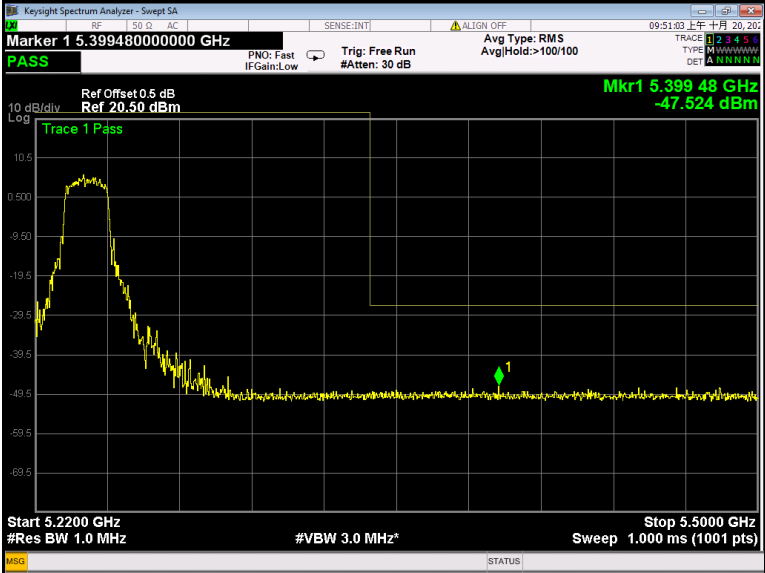
10.2 Test Result

Test result plots shown as follows:

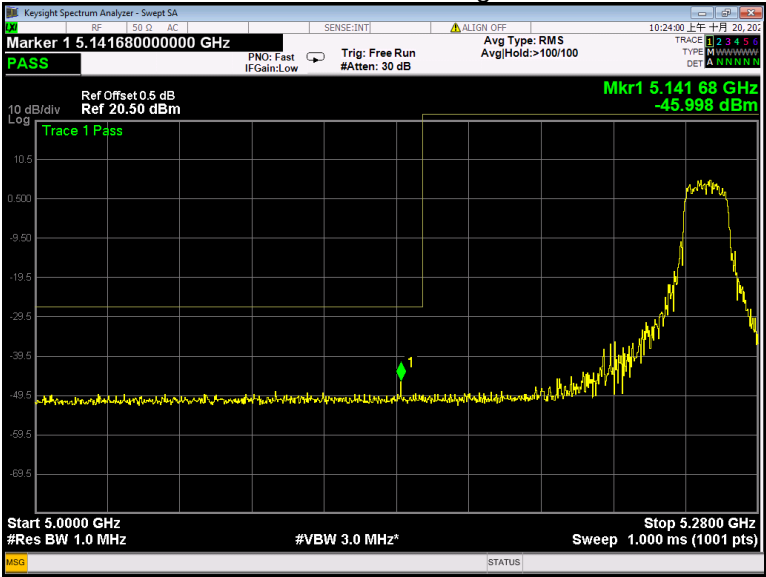
802.11a U-NII-1 Band edge-left side



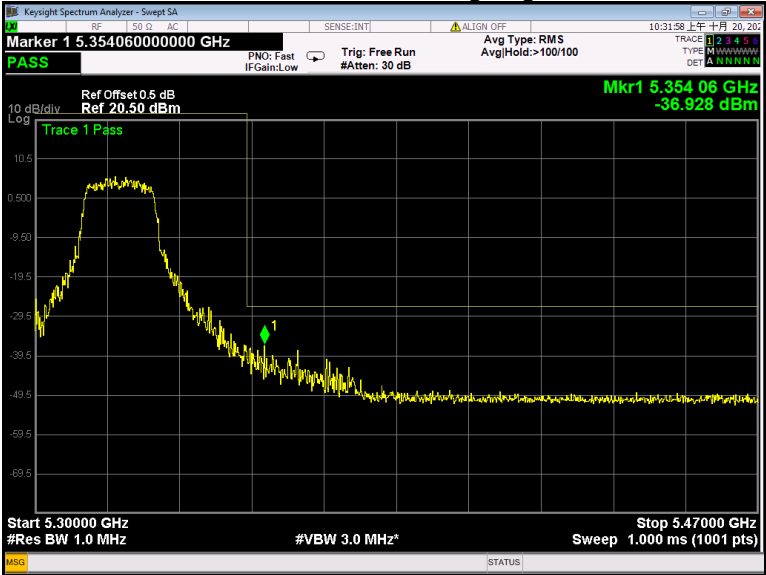
802.11a U-NII-1 Band edge-right side



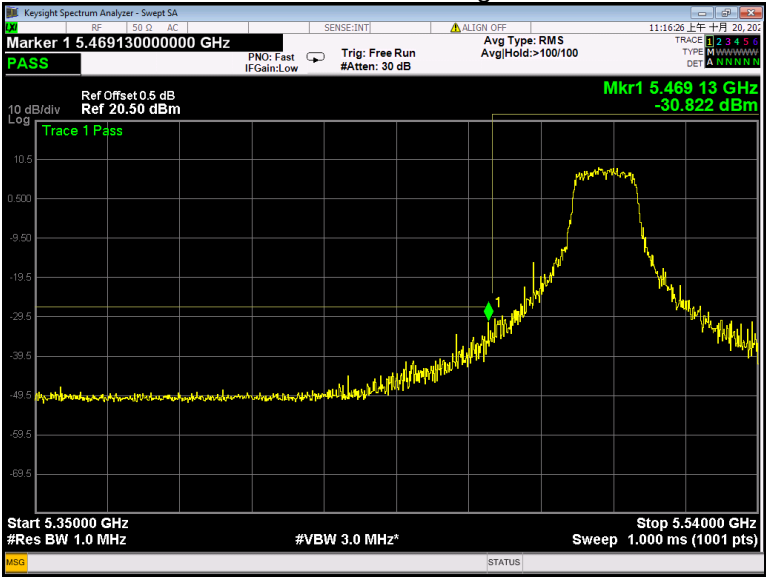
802.11a U-NII-2A Band edge-left side



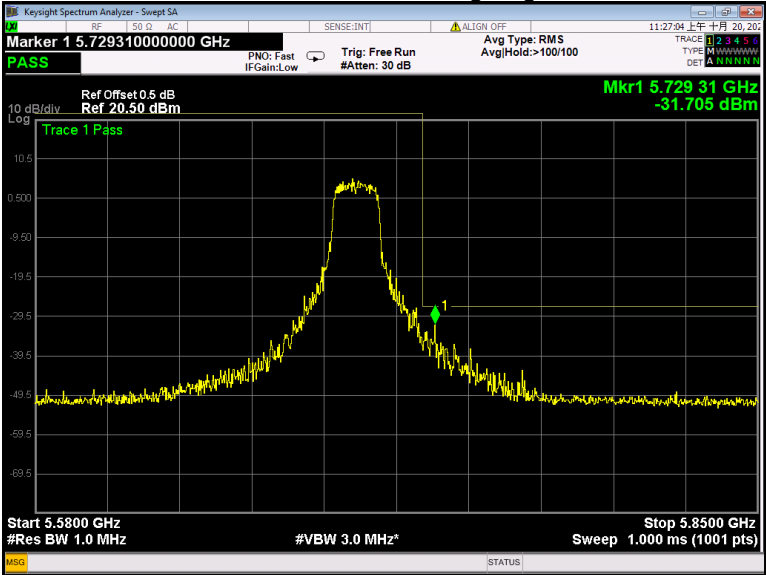
802.11a U-NII-2A Band edge-right side



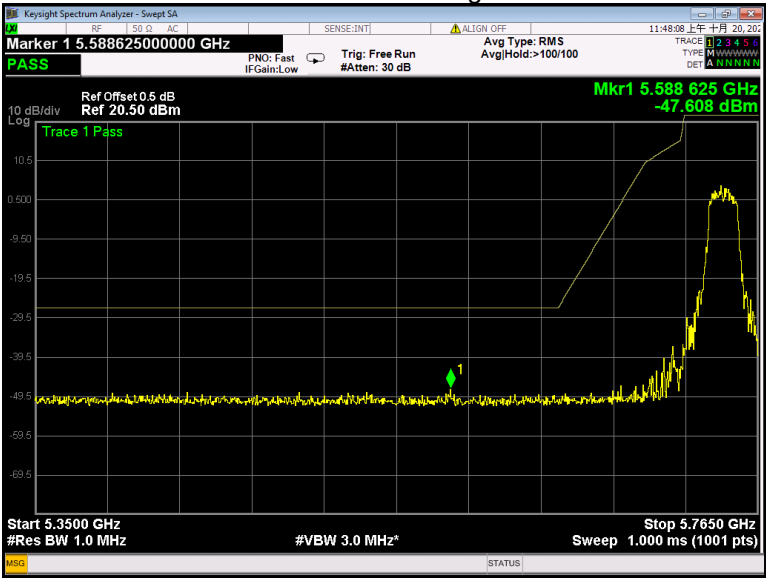
802.11a U-NII-2C Band edge-left side



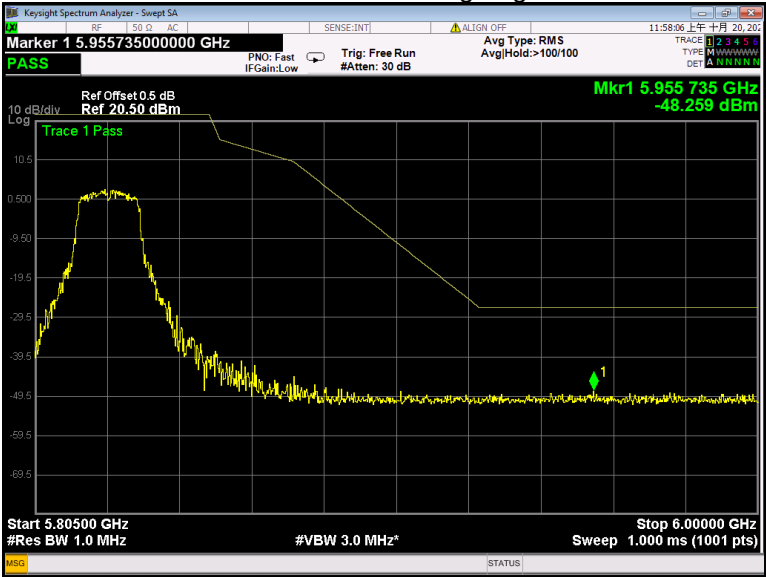
802.11a U-NII-2C Band edge-right side



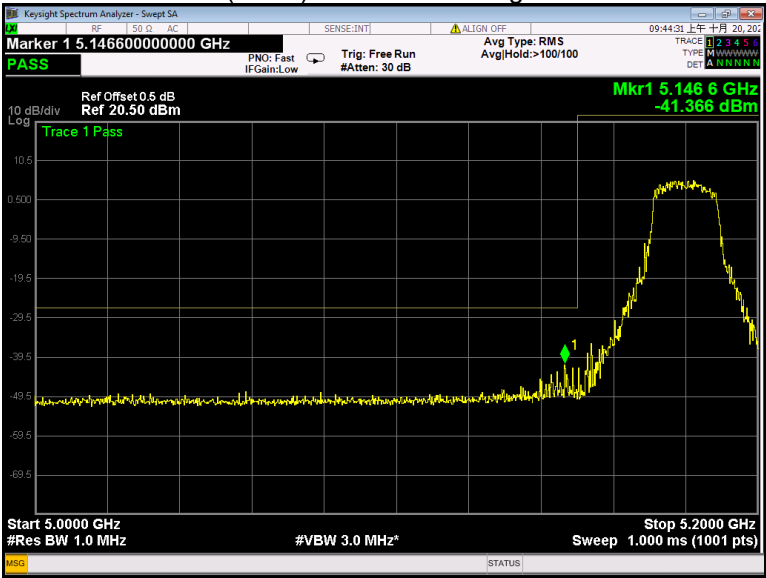
802.11a U-NII-3 Band edge-left side



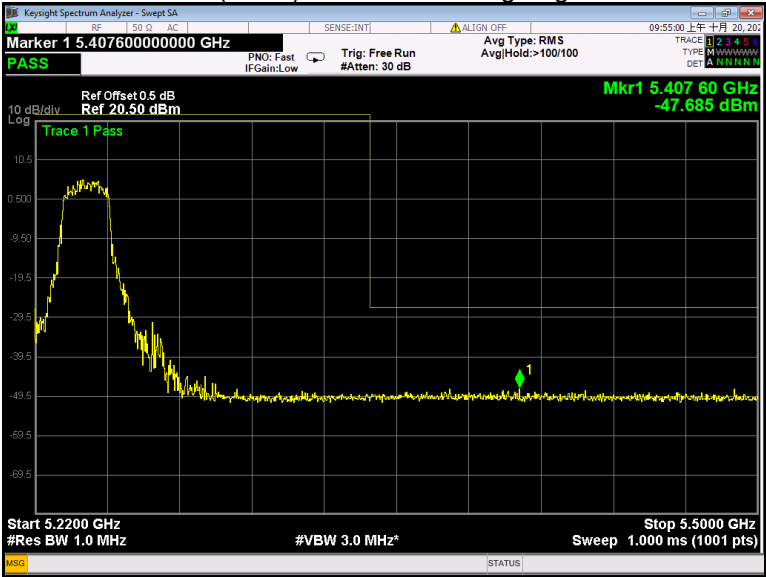
802.11a U-NII-3 Band edge-right side



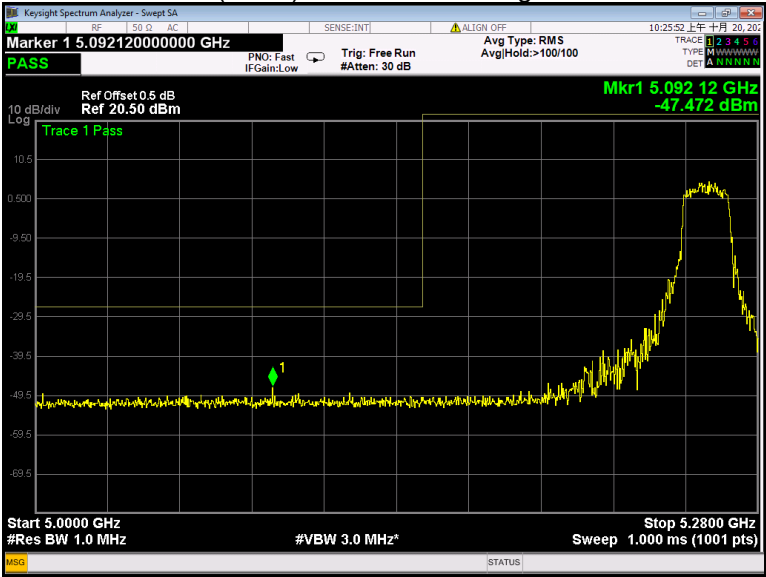
802.11n(HT20) U-NII-1 Band edge-left side



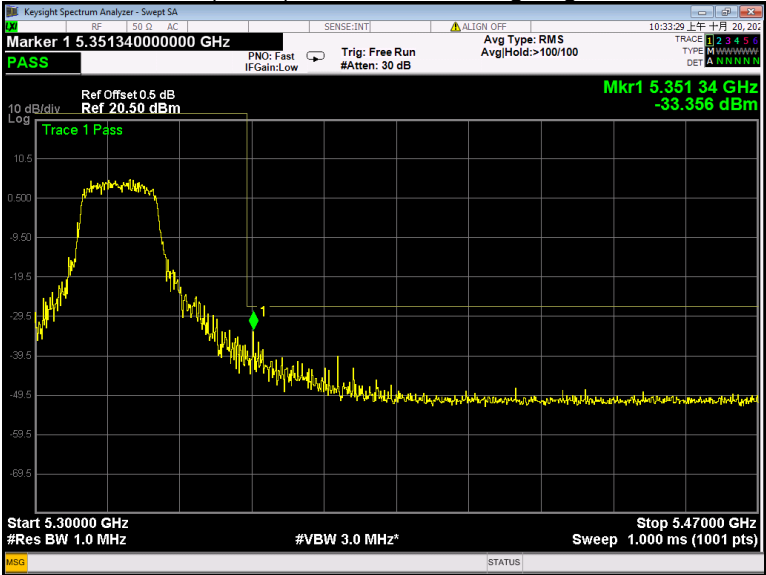
802.11n(HT20) U-NII-1 Band edge-right side



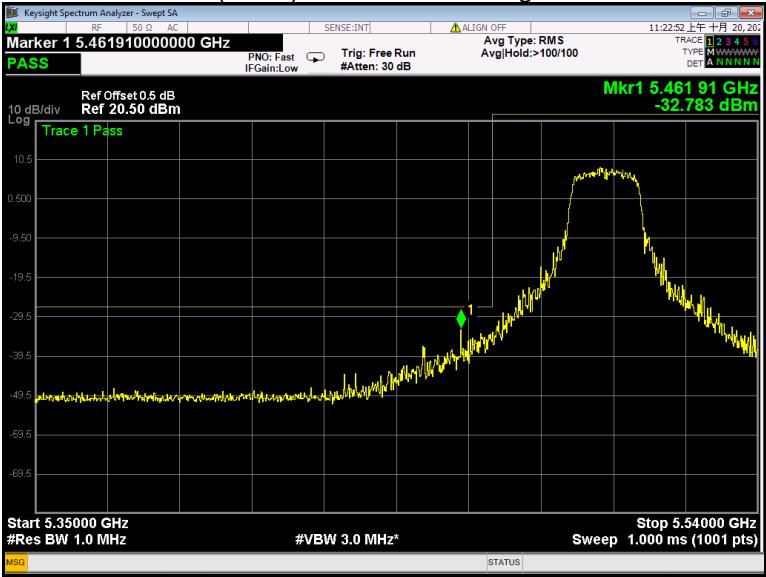
802.11n(HT20) U-NII-2A Band edge-left side



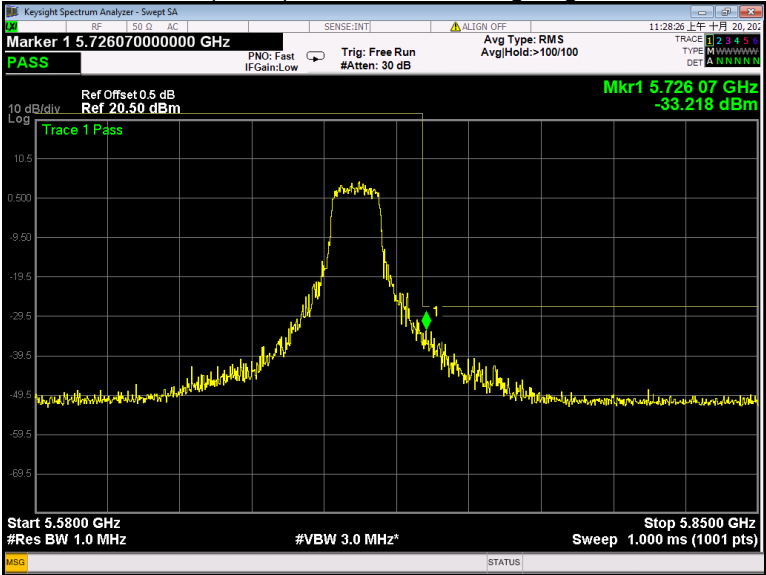
802.11n(HT20) U-NII-2A Band edge-right side



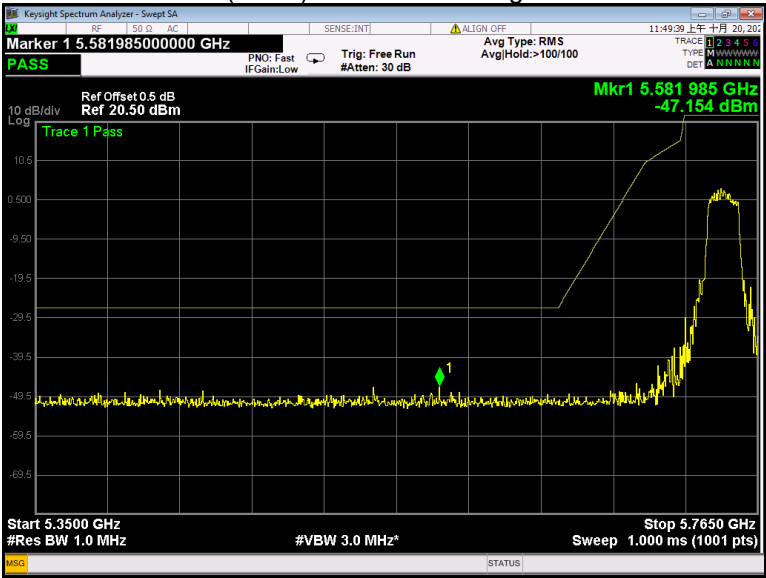
802.11n(HT20) U-NII-2C Band edge-left side



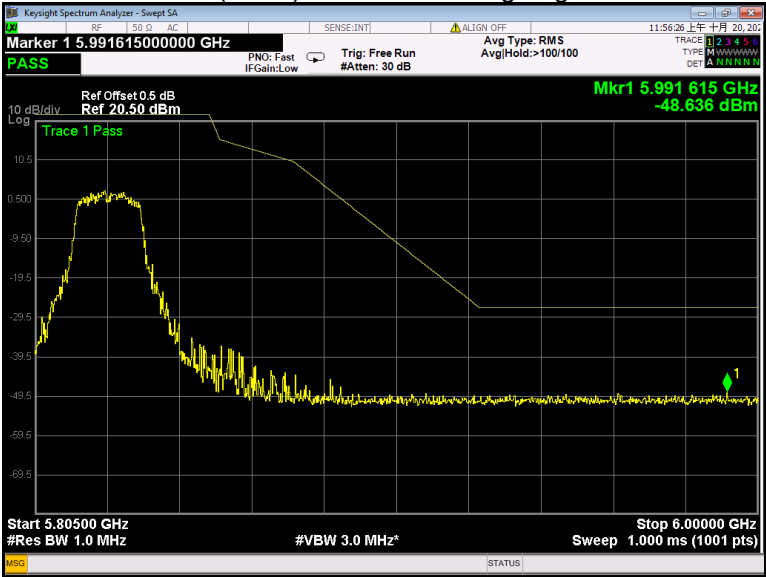
802.11n(HT20) U-NII-2C Band edge-right side



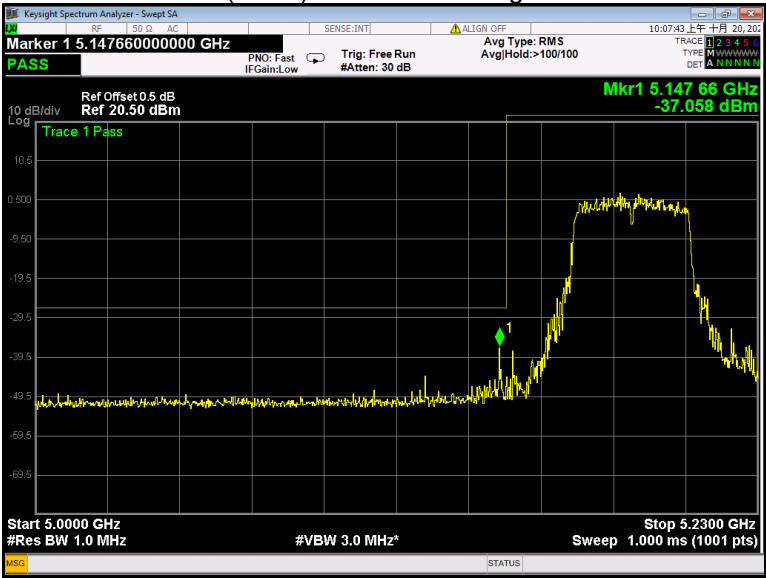
802.11n(HT20) U-NII-3 Band edge-left side



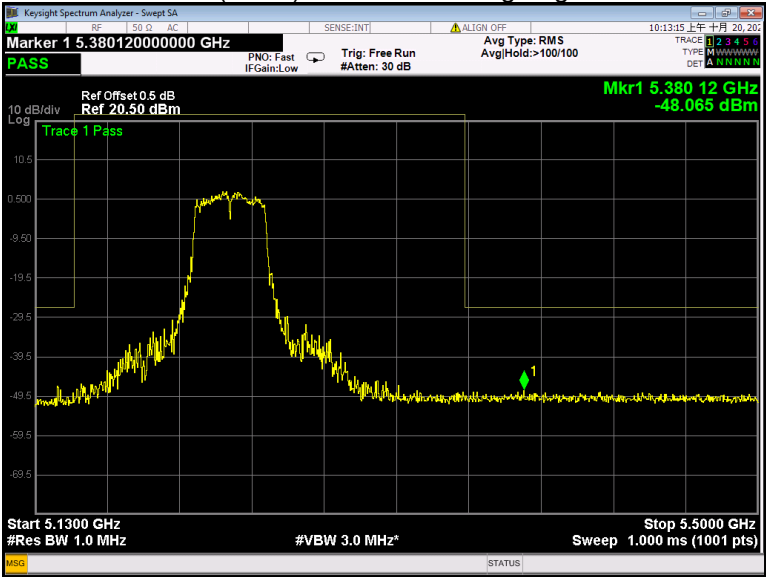
802.11n(HT20) U-NII-3 Band edge-right side



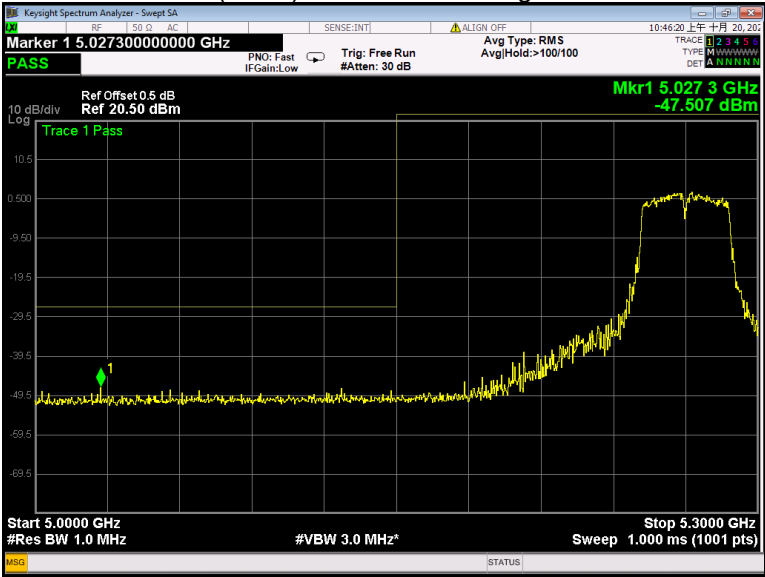
802.11n(HT40) U-NII-1 Band edge-left side



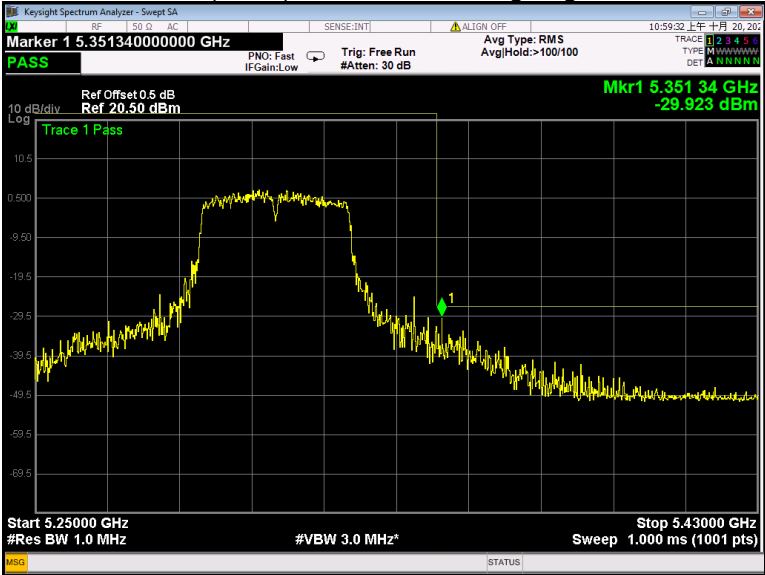
802.11n(HT40) U-NII-1 Band edge-right side



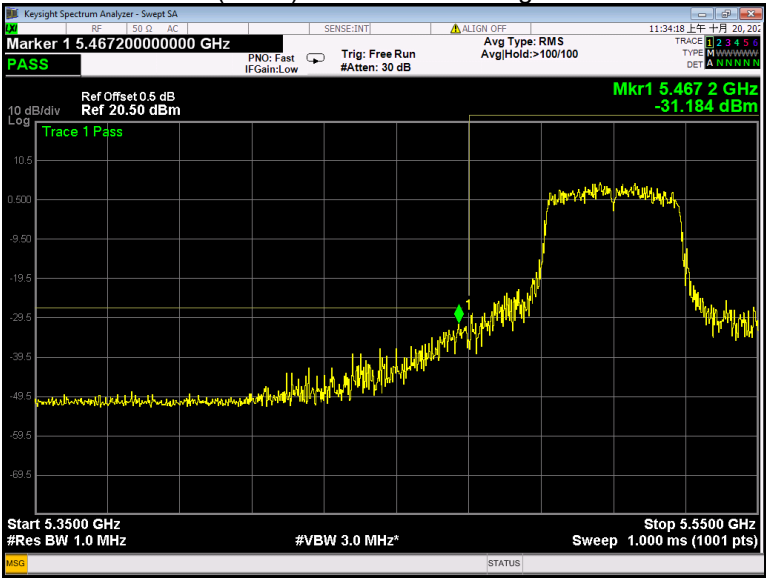
802.11n(HT40) U-NII-2A Band edge-left side



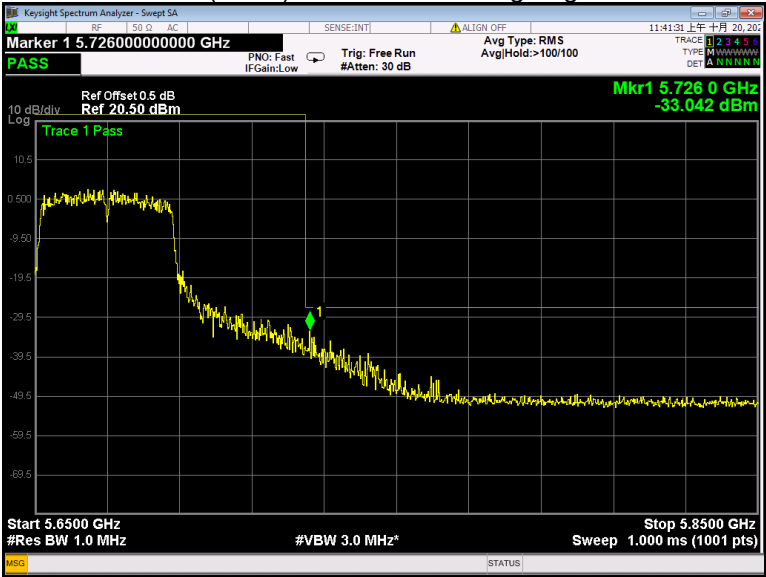
802.11n(HT40) U-NII-2A Band edge-right side



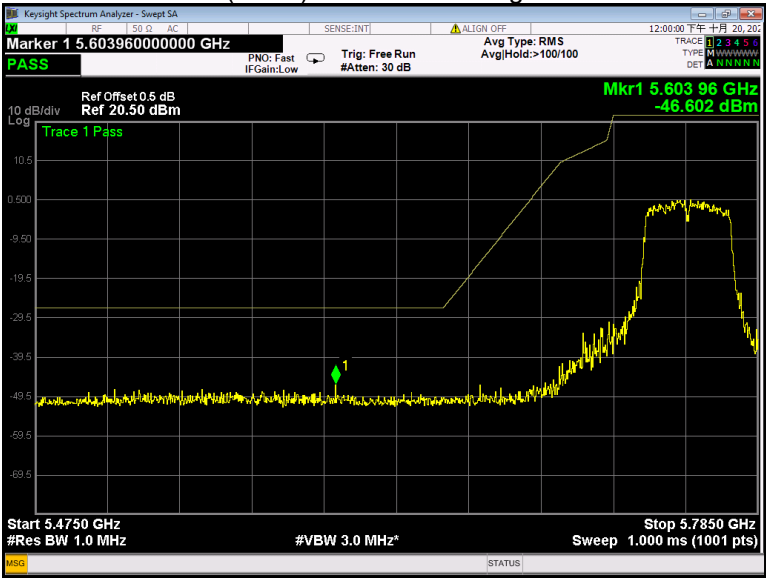
802.11n(HT40) U-NII-2C Band edge-left side



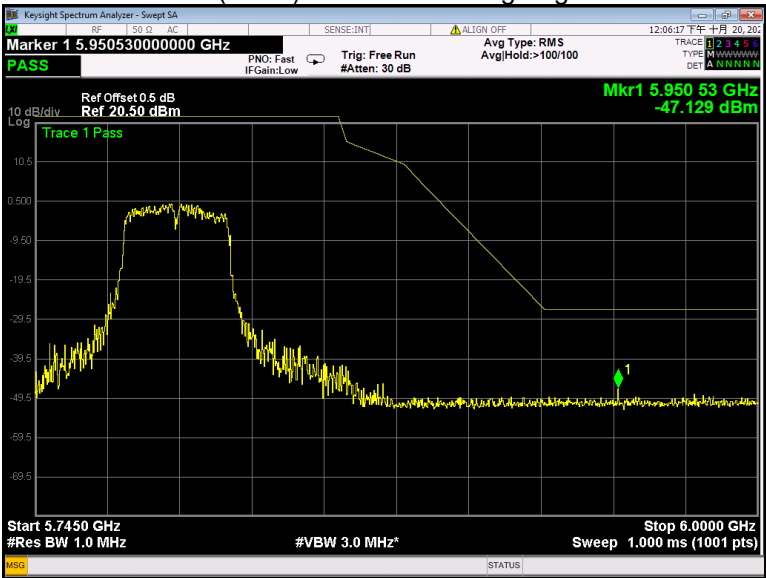
802.11n(HT40) U-NII-2C Band edge-right side



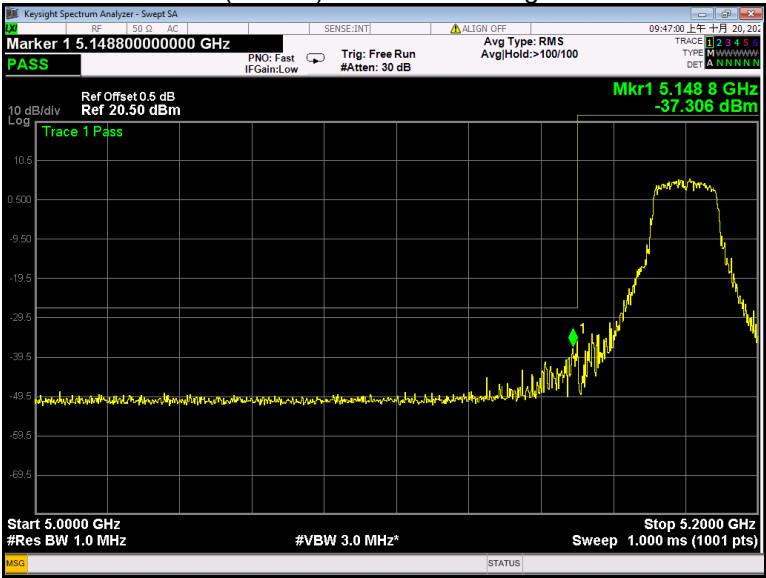
802.11n(HT40) U-NII-3 Band edge-left side



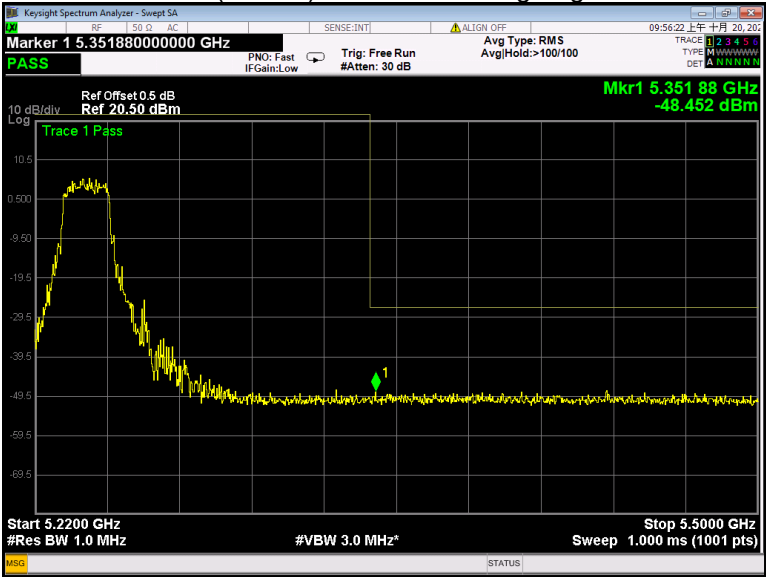
802.11n(HT40) U-NII-3 Band edge-right side



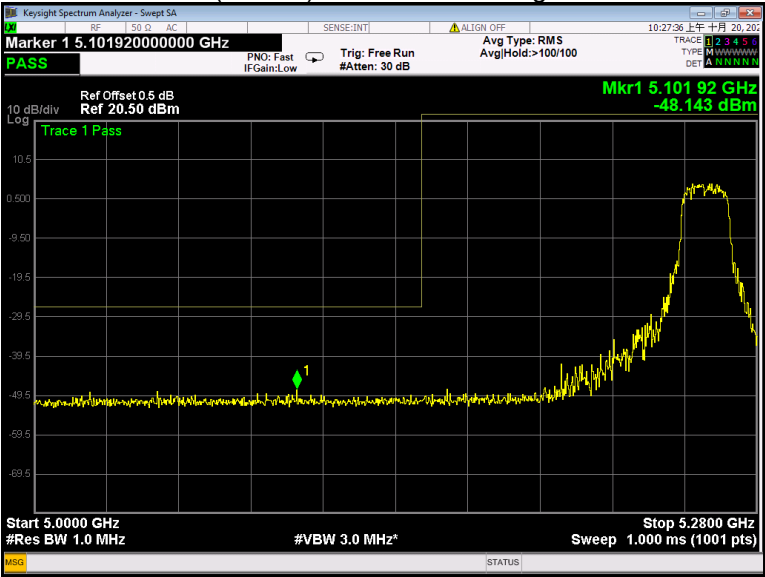
802.11ac(VHT20) U-NII-1 Band edge-left side



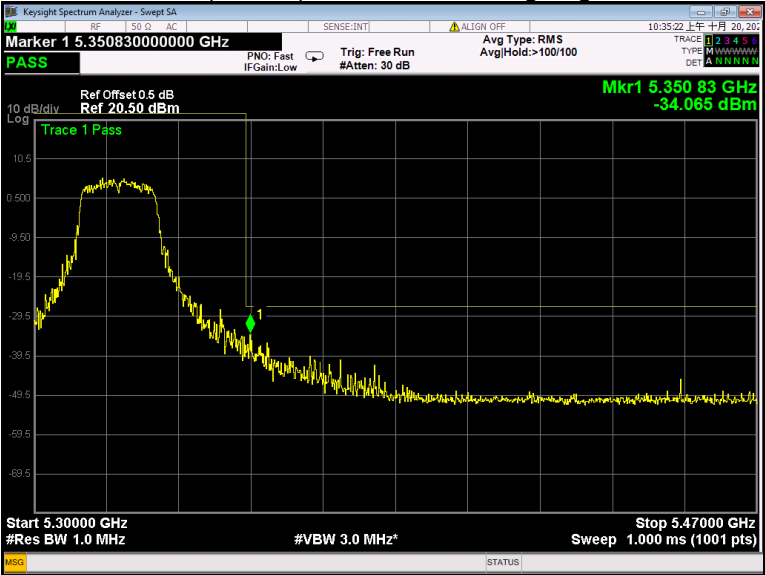
802.11ac(VHT20) U-NII-1 Band edge-right side



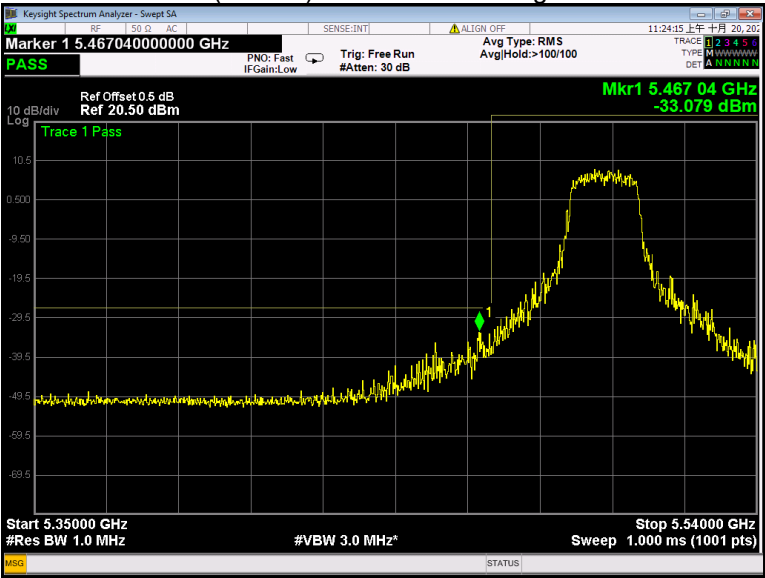
802.11ac(VHT20) U-NII-2A Band edge-left side



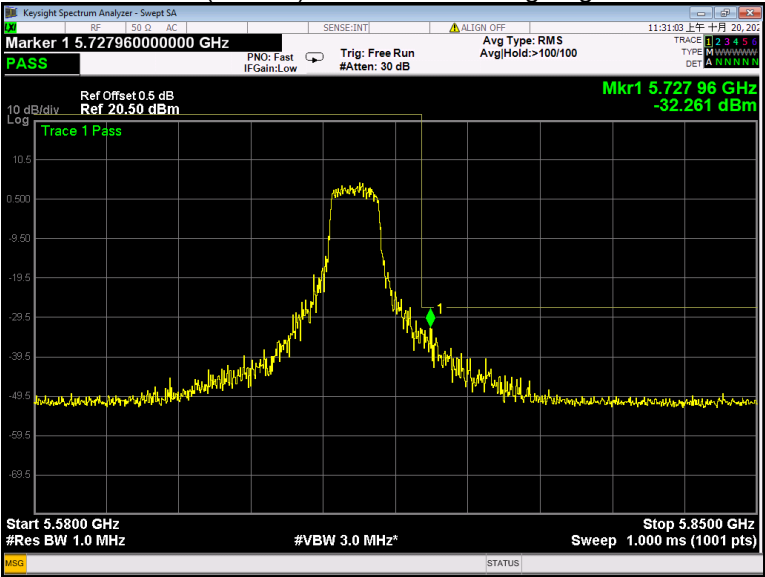
802.11ac(VHT20) U-NII-2A Band edge-right side



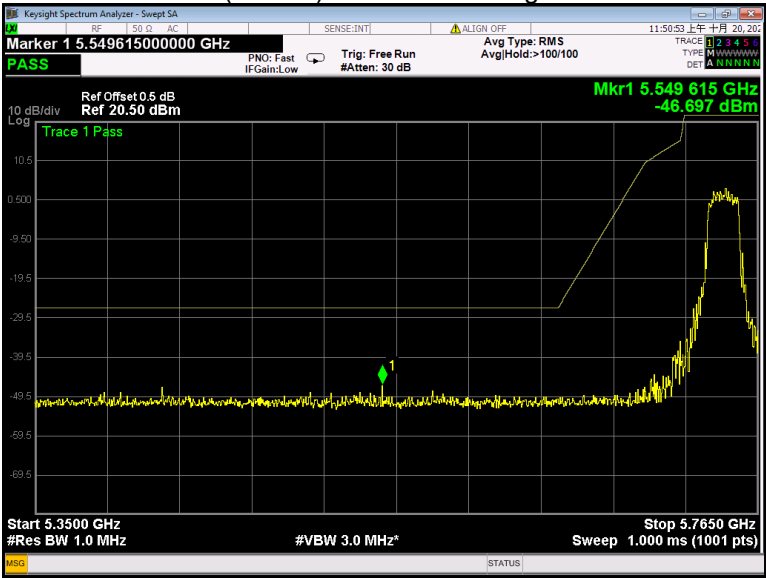
802.11ac(VHT20) U-NII-2C Band edge-left side



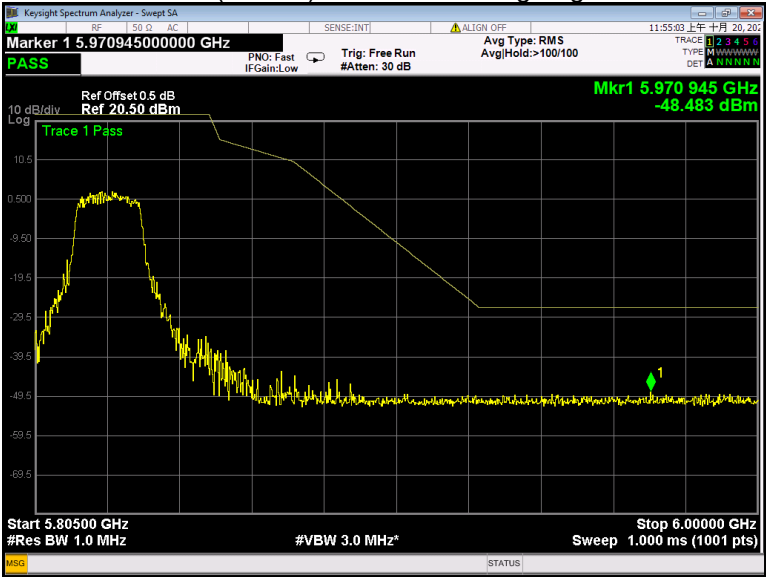
802.11ac(VHT20) U-NII-2C Band edge-right side



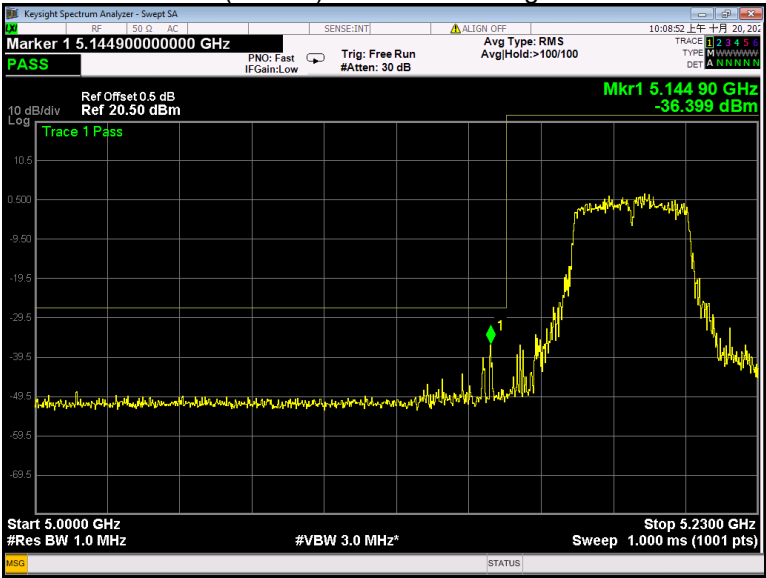
802.11ac(VHT20) U-NII-3 Band edge-left side



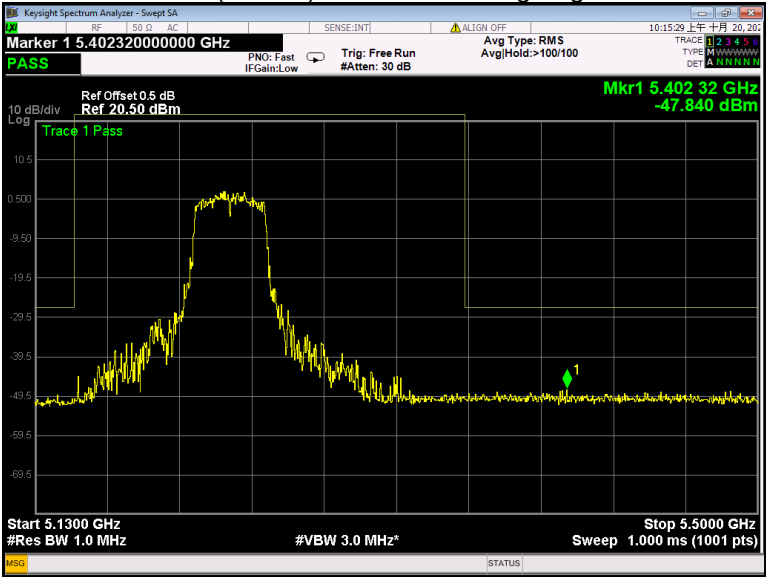
802.11ac(VHT20) U-NII-3 Band edge-right side



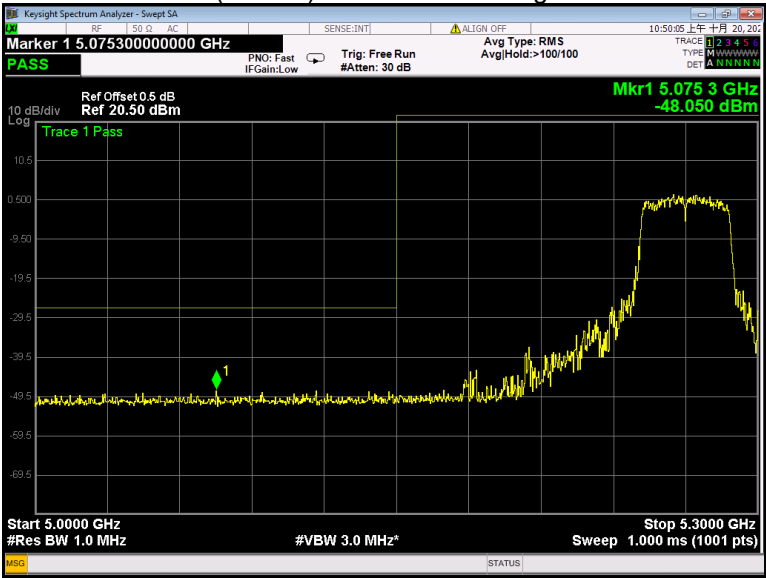
802.11ac(VHT40) U-NII-1 Band edge-left side



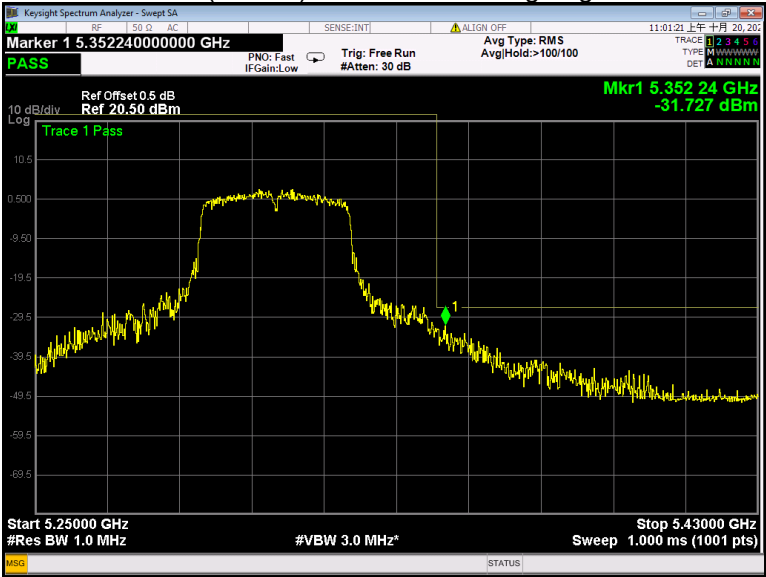
802.11ac(VHT40) U-NII-1 Band edge-right side



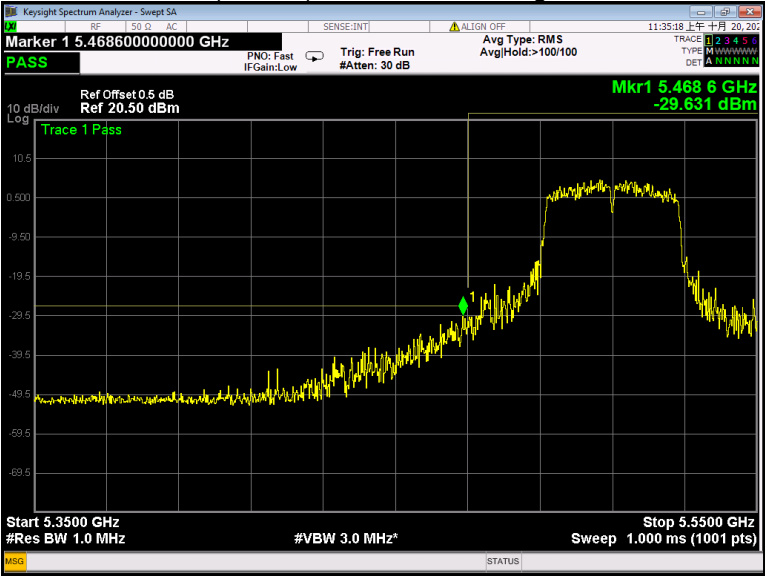
802.11ac(VHT40) U-NII-2A Band edge-left side



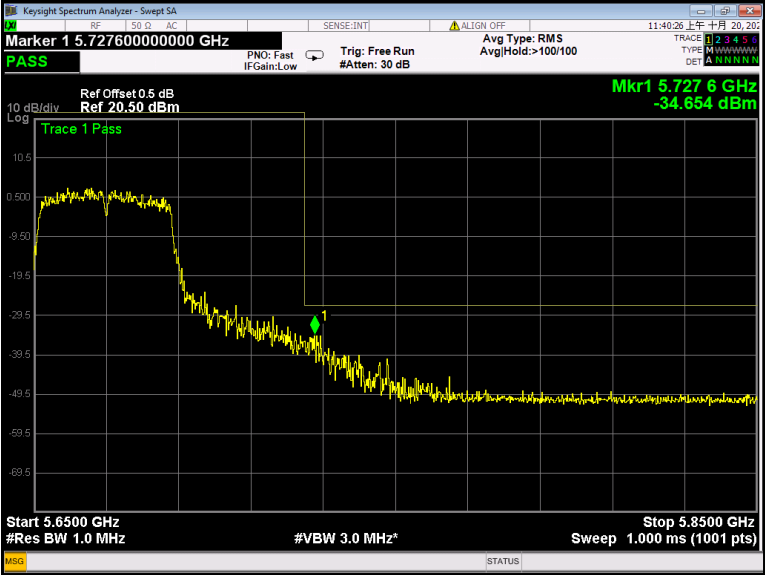
802.11ac(VHT40) U-NII-2A Band edge-right side



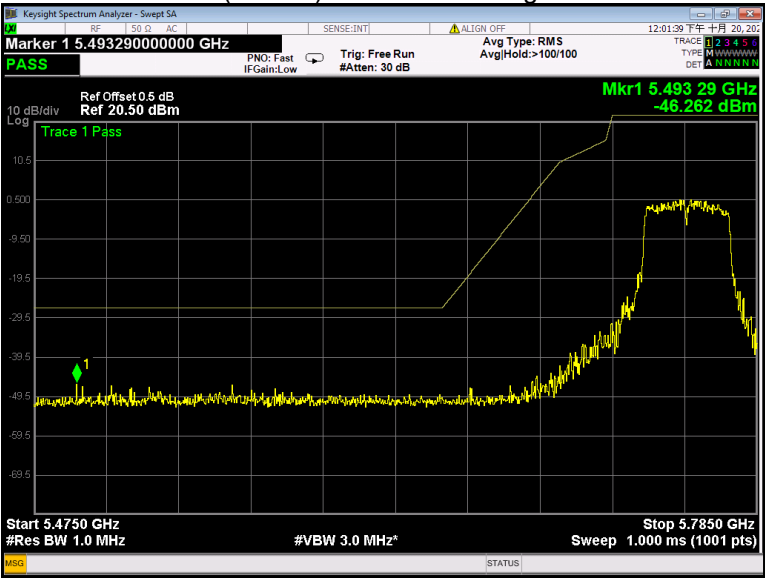
802.11ac(VHT40) U-NII-2C Band edge-left side



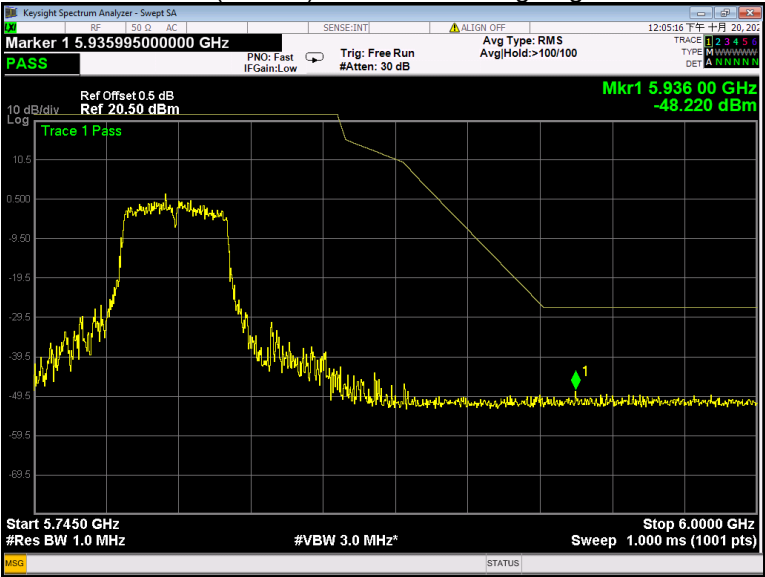
802.11ac(VHT40) U-NII-2C Band edge-right side



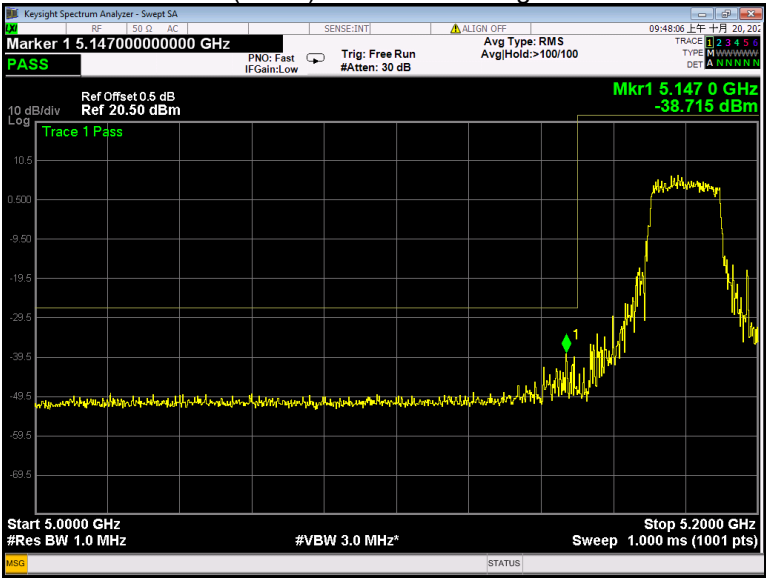
802.11ac(VHT40) U-NII-3 Band edge-left side



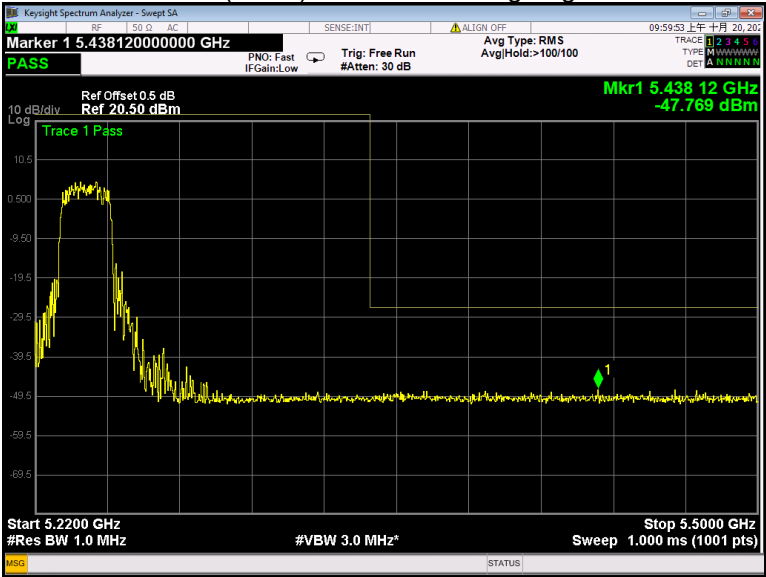
802.11ac(VHT40) U-NII-3 Band edge-right side



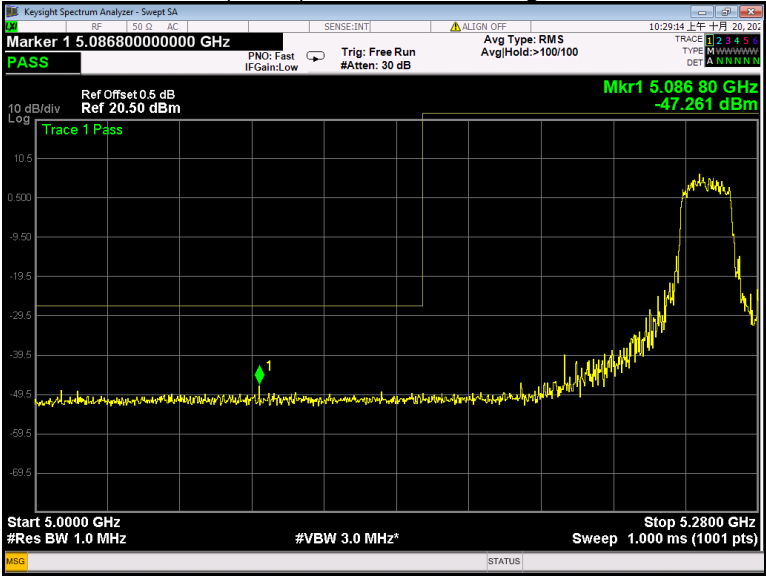
802.11ax(HE20) U-NII-1 Band edge-left side



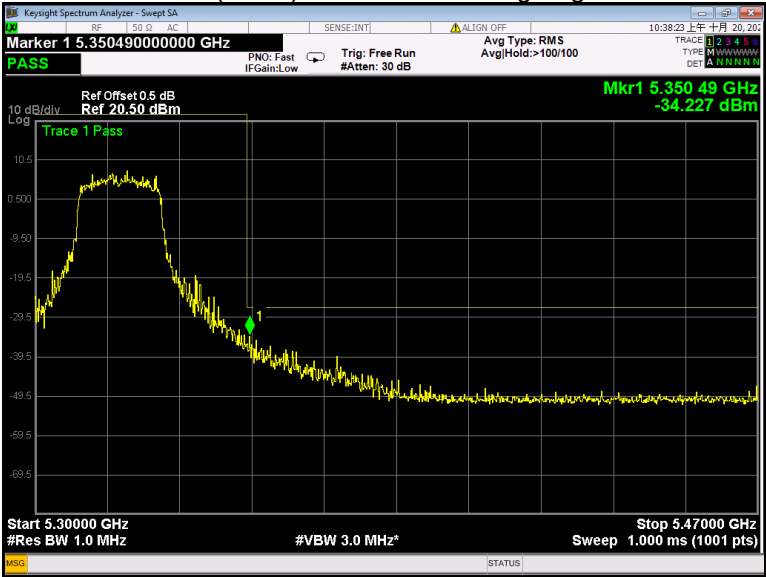
802.11ax(HE20) U-NII-1 Band edge-right side



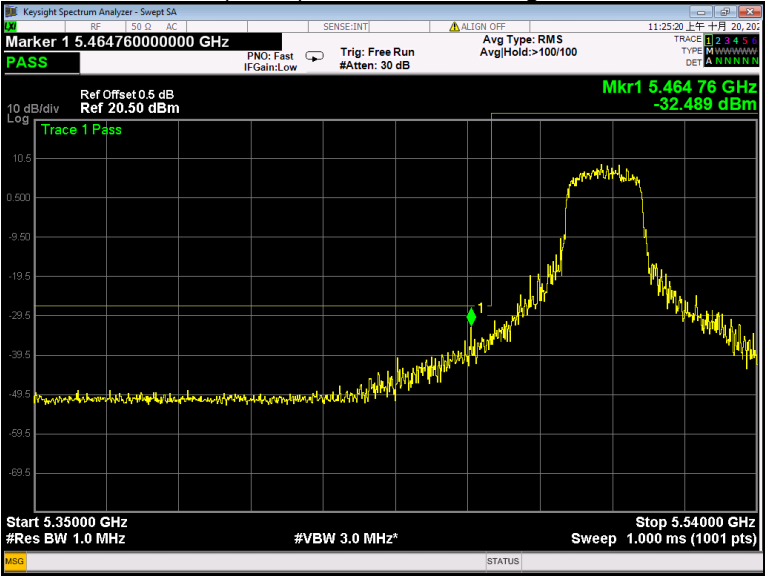
802.11ax(HE20) U-NII-2A Band edge-left side



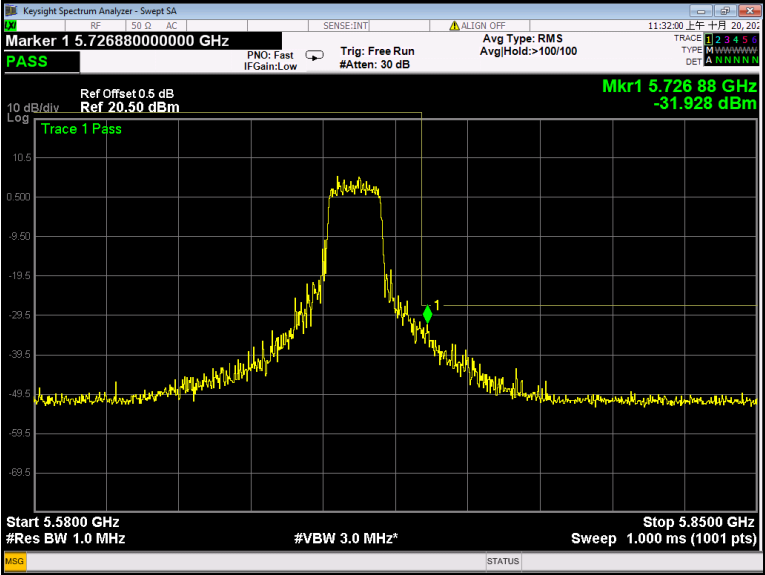
802.11ax(HE20) U-NII-2A Band edge-right side



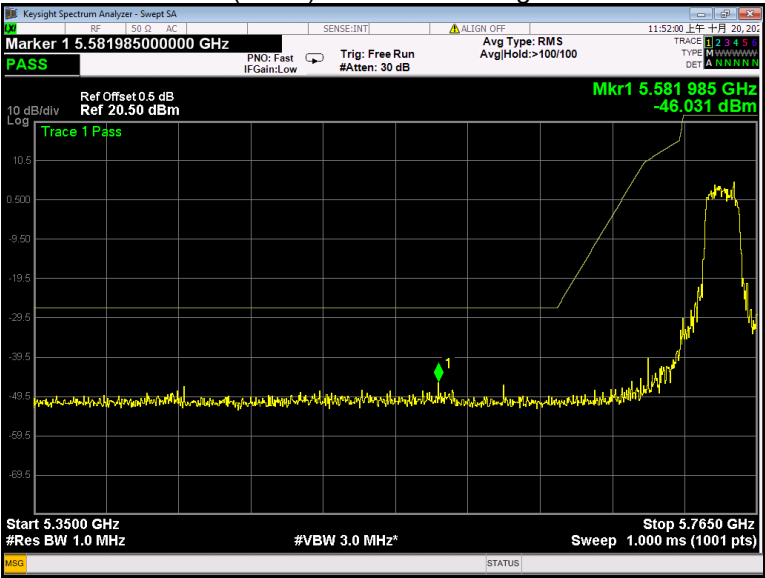
802.11ax(HE20) U-NII-2C Band edge-left side



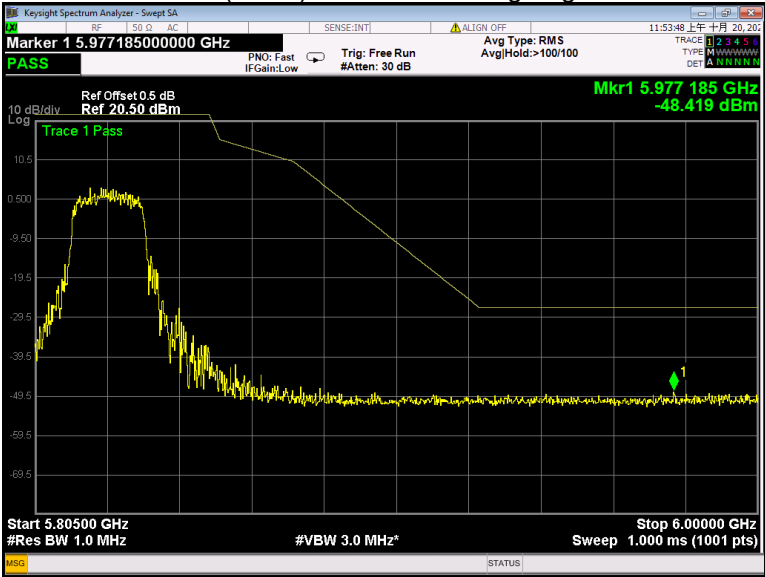
802.11ax(HE20) U-NII-2C Band edge-right side



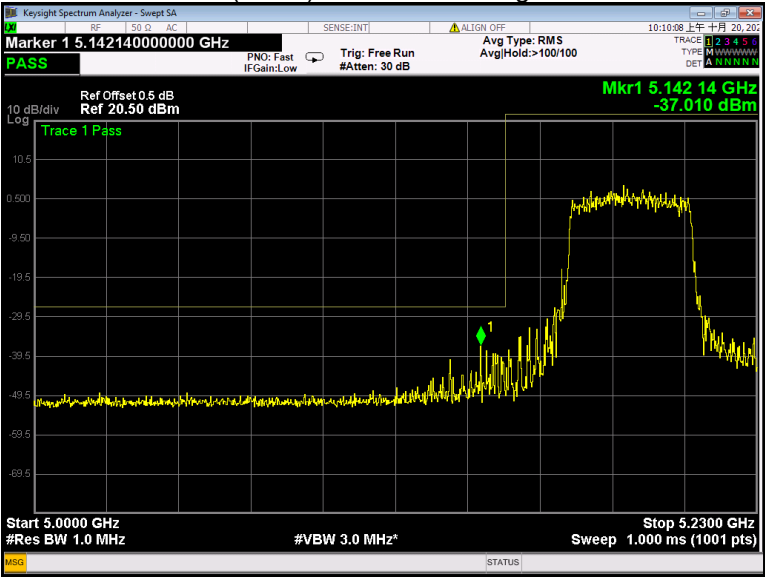
802.11ax(HE20) U-NII-3 Band edge-left side



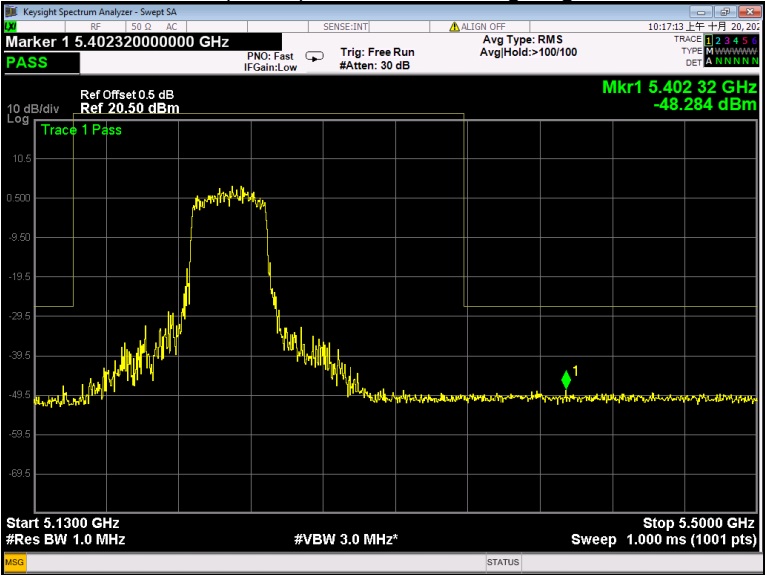
802.11ax(HE20) U-NII-3 Band edge-right side



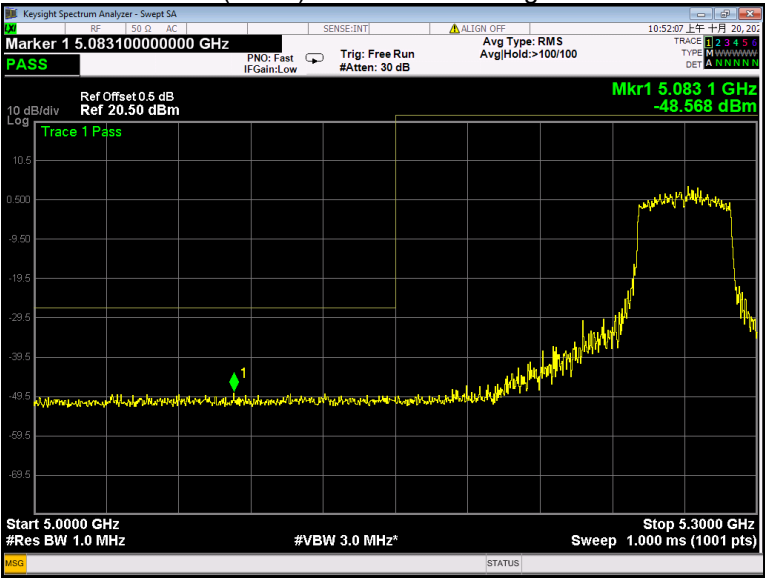
802.11ax(HE40) U-NII-1 Band edge-left side



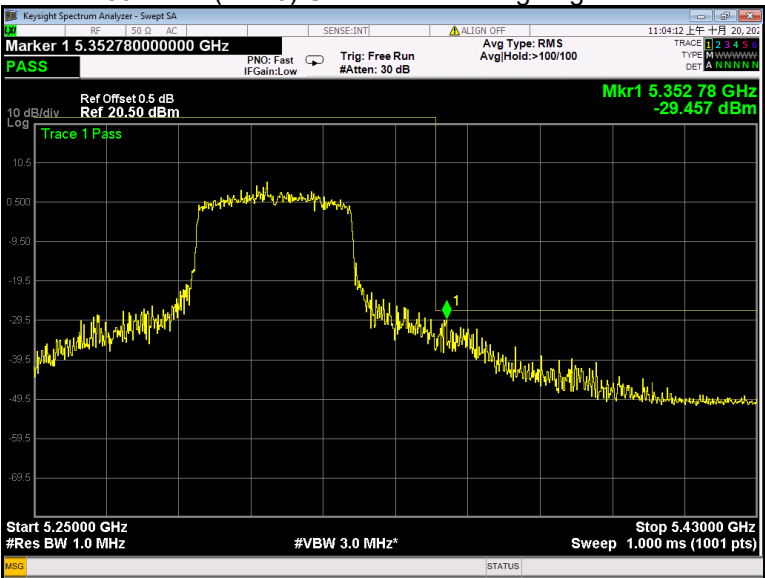
802.11ax(HE40) U-NII-1 Band edge-right side



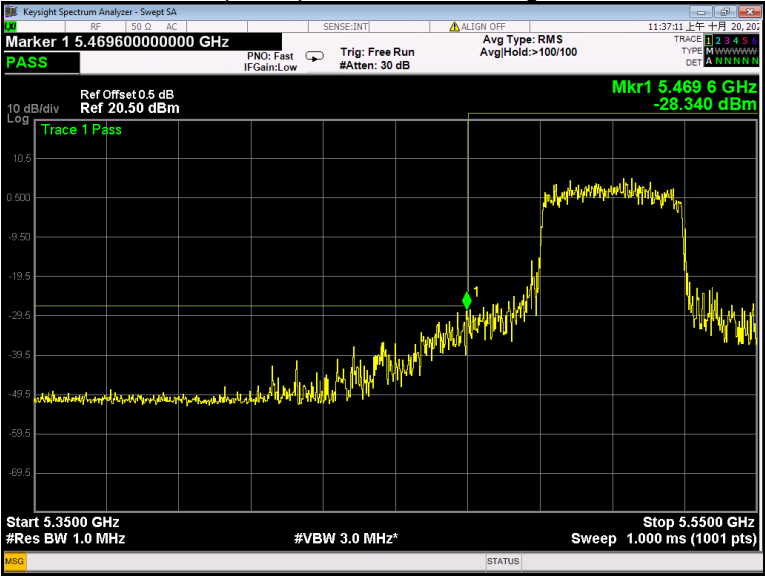
802.11ax(HE40) U-NII-2A Band edge-left side



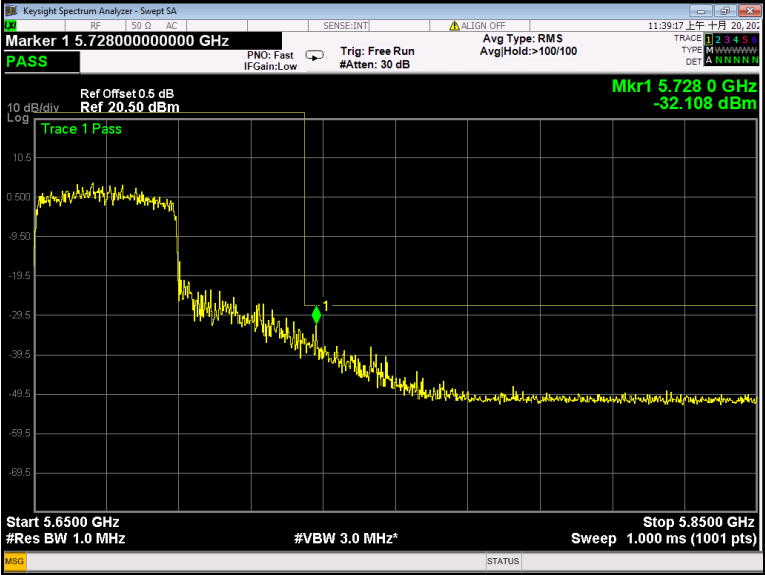
802.11ax(HE40) U-NII-2A Band edge-right side



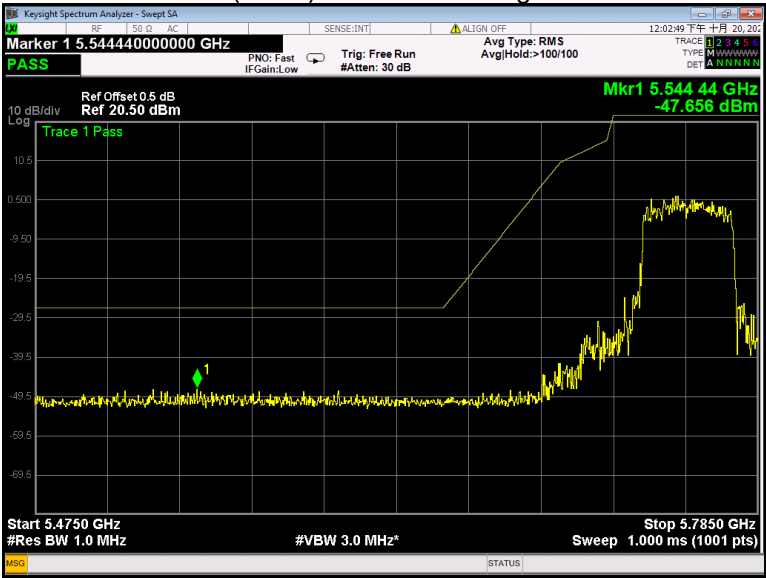
802.11ax(HE40) U-NII-2C Band edge-left side



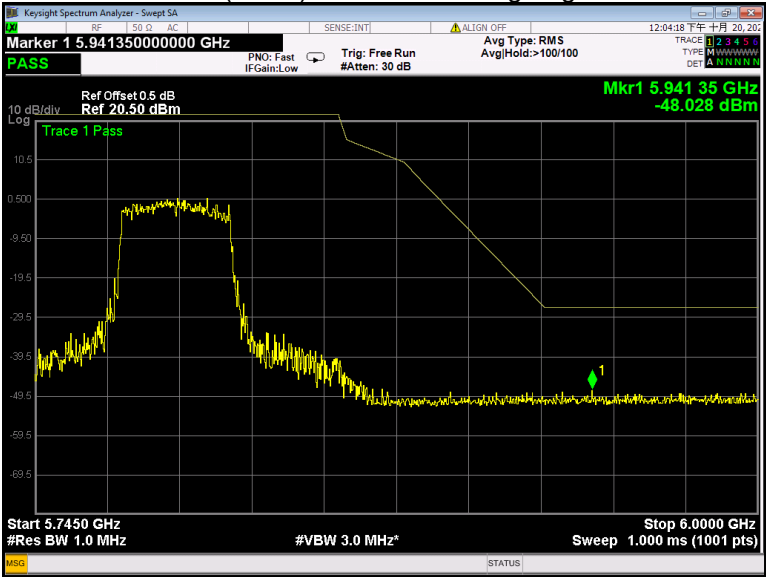
802.11ax(HE40) U-NII-2C Band edge-right side



802.11ax(HE40) U-NII-3 Band edge-left side



802.11ax(HE40) U-NII-3 Band edge-right side



11 6 dB Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407(e) KDB789033 D02 General U-NII Test Procedures New Rules v02r01
Test Method:	Section C ANSI C63.10-2020+A1-2024
Test Limit:	≥ 500 kHz
Test Result:	PASS

11.1 Test Procedure

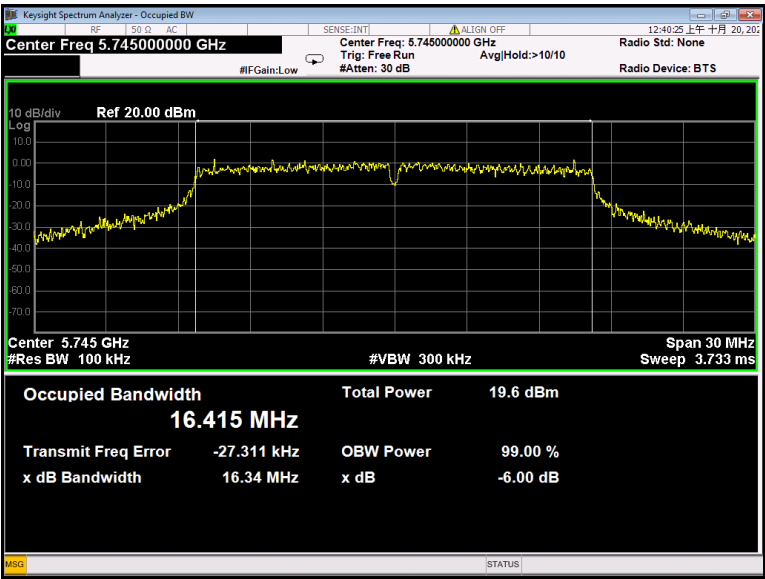
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

11.2 Test Result

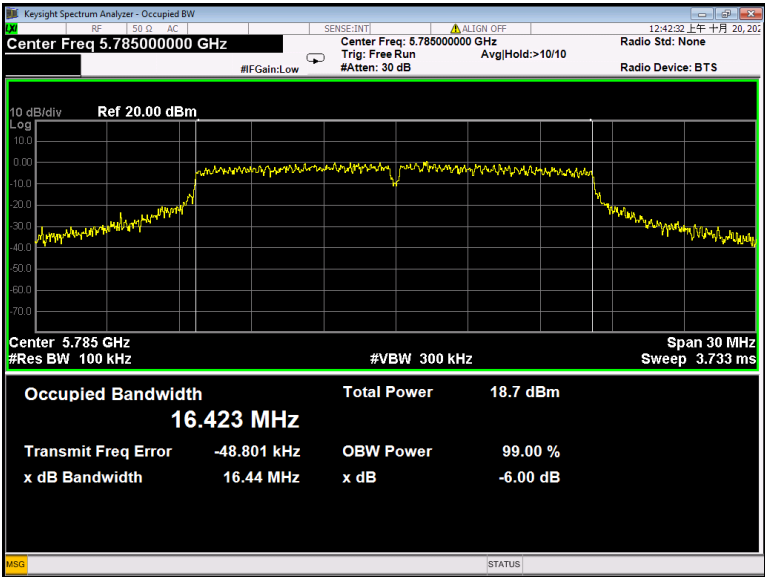
Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.415	16.423	16.478
	802.11n(HT20)	17.652	17.648	17.668
	802.11n(HT40)	36.117	/	36.132
	802.11ac(VHT20)	17.587	17.632	17.641
	802.11ac(VHT40)	36.101	/	36.146
	802.11ax(HE20)	18.885	18.901	18.924
	802.11ax(HE40)	37.736	/	37.701

Test result plots shown as follows:

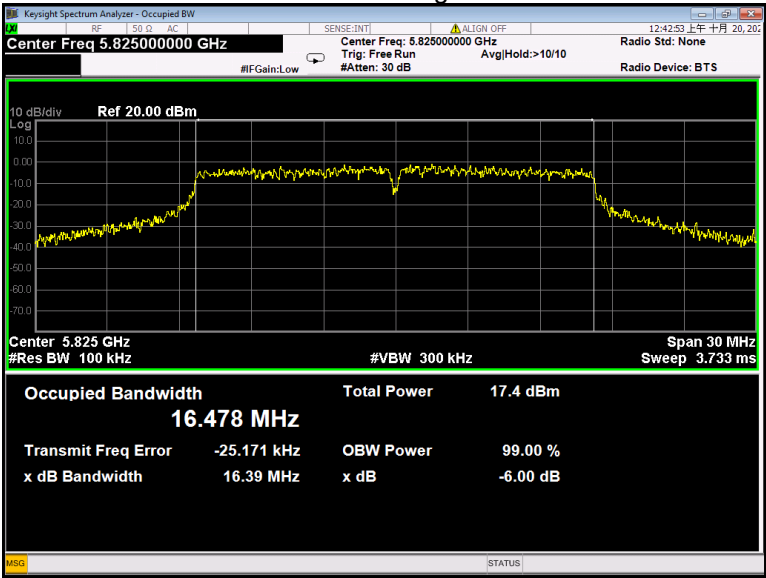
802.11a U-NII-3 Low channel



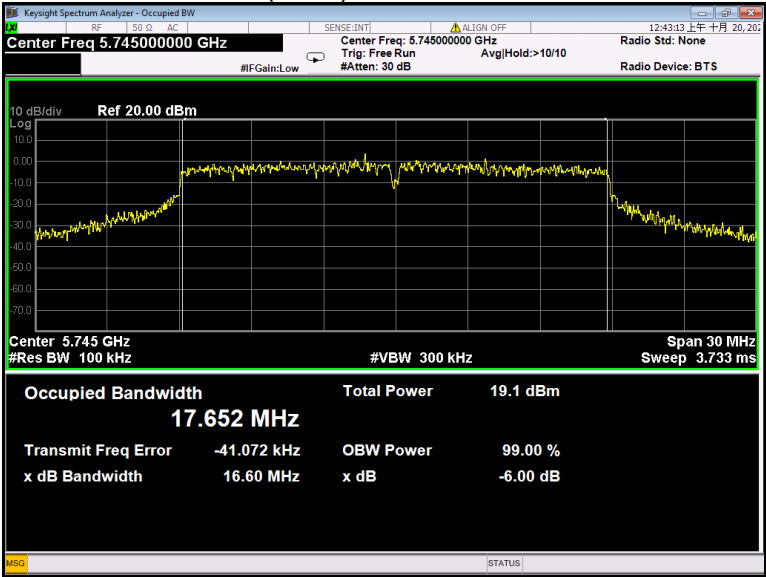
802.11a U-NII-3 Middle channel



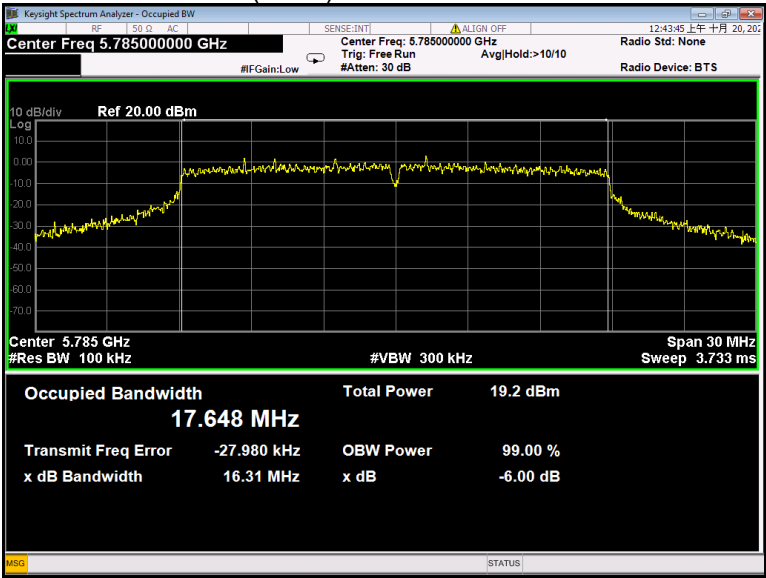
802.11a U-NII-3 High channel



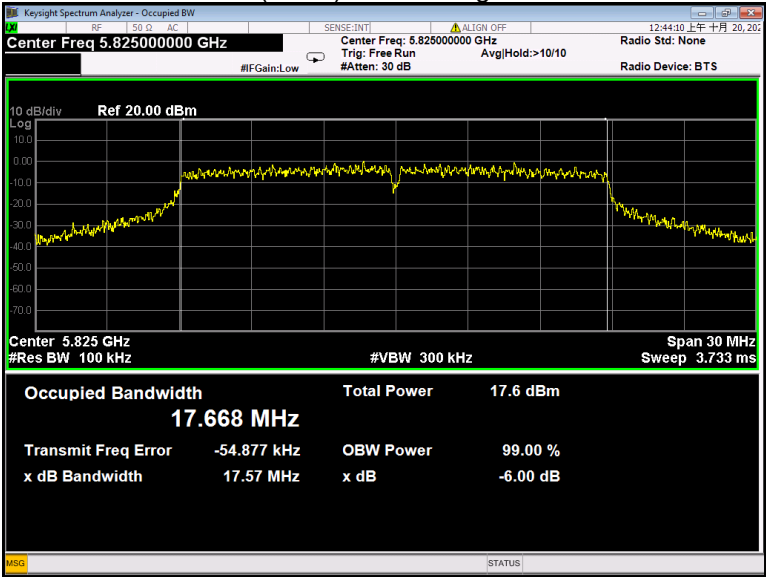
802.11n(HT20) U-NII-3 Low channel



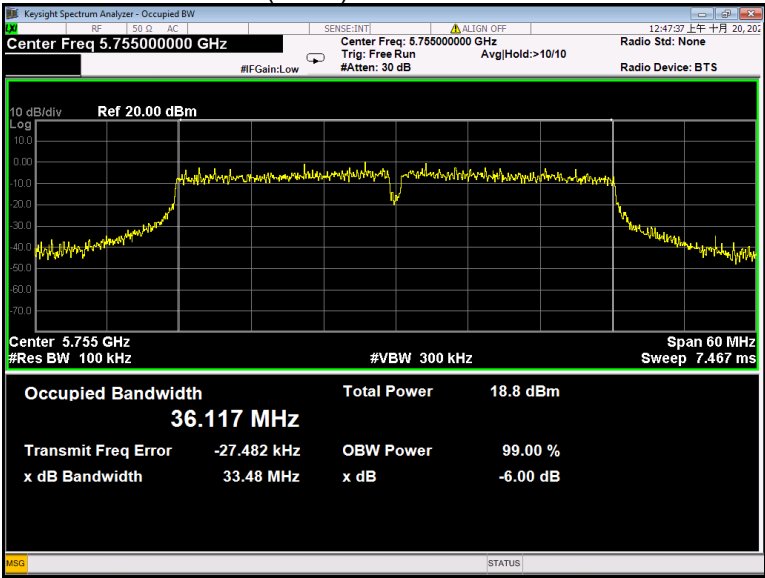
802.11n(HT20) U-NII-3 Middle channel



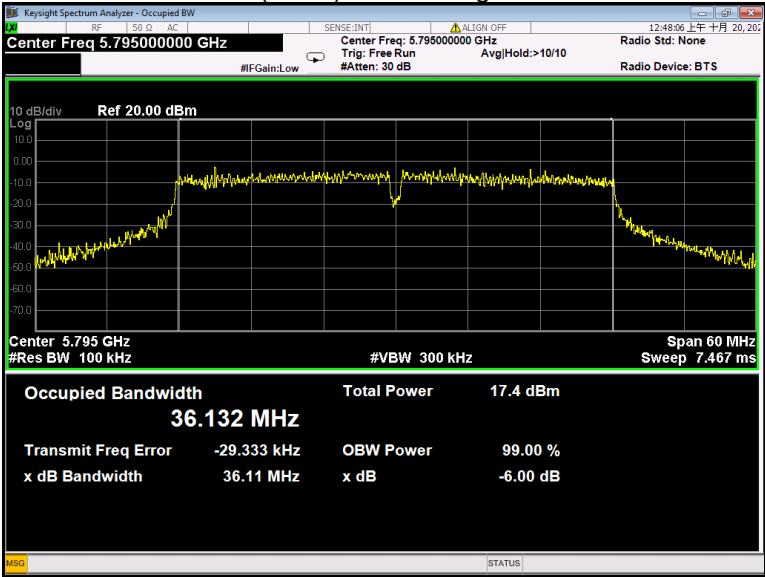
802.11n(HT20) U-NII-3 High channel

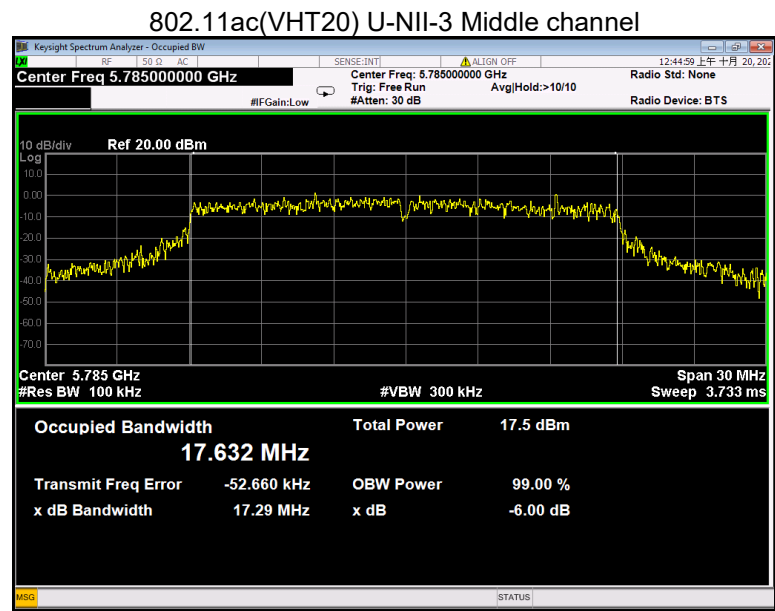
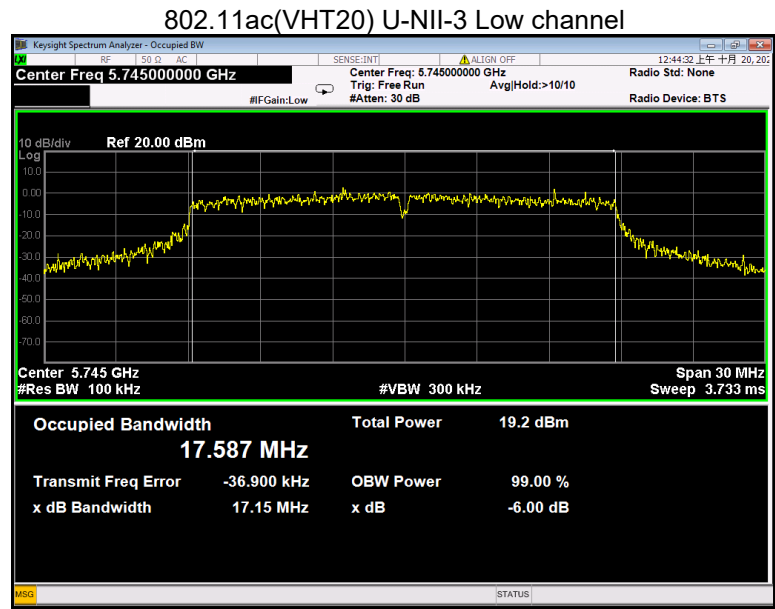


802.11n(HT40) U-NII-3 Low channel

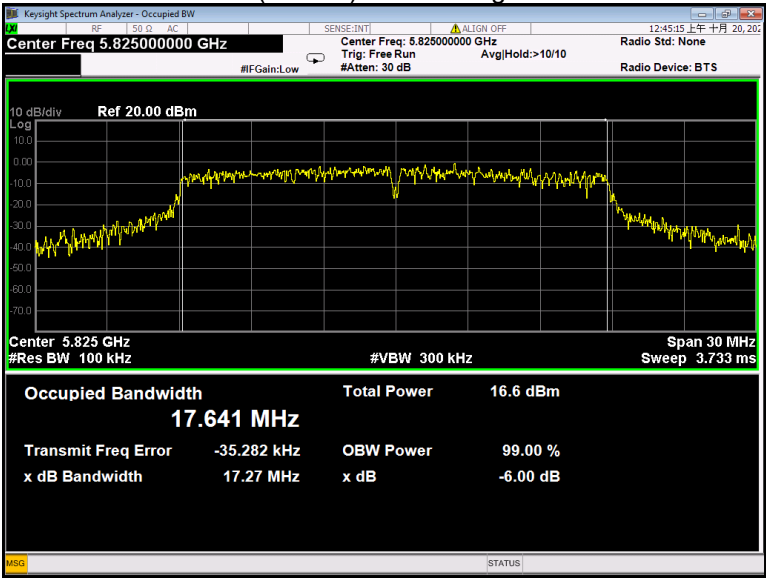


802.11n(HT40) U-NII-3 High channel

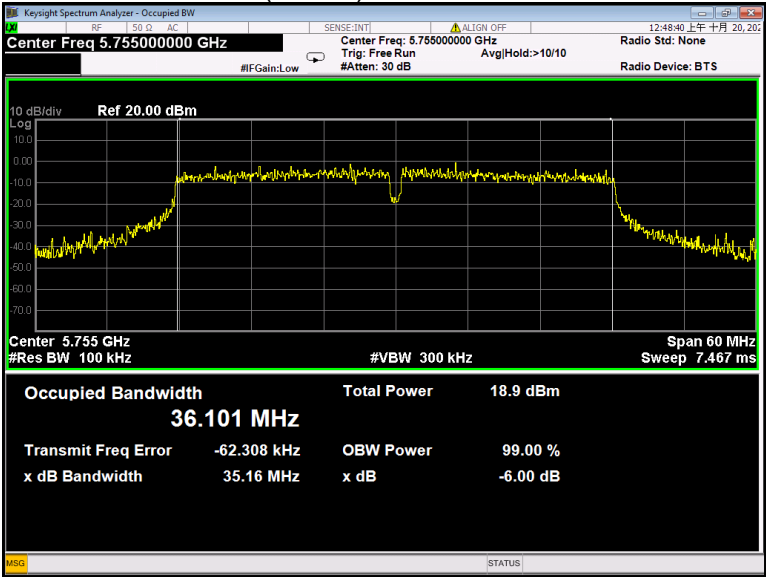




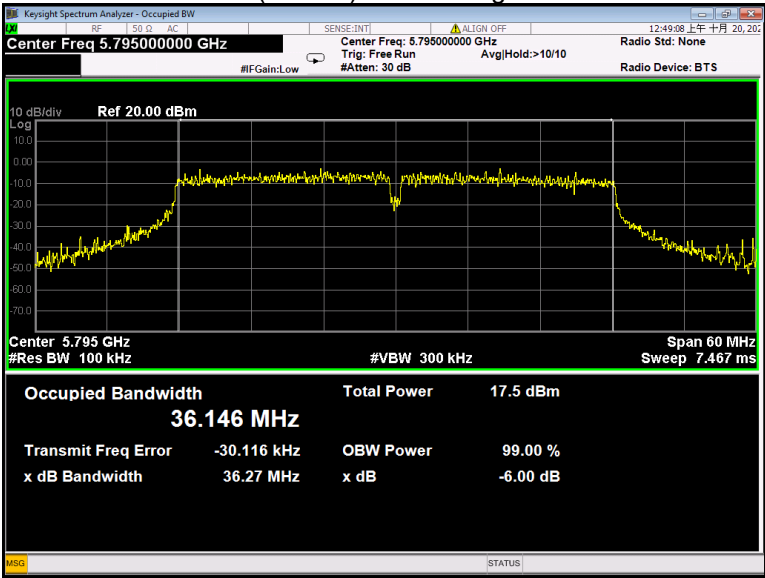
802.11ac(VHT20) U-NII-3 High channel



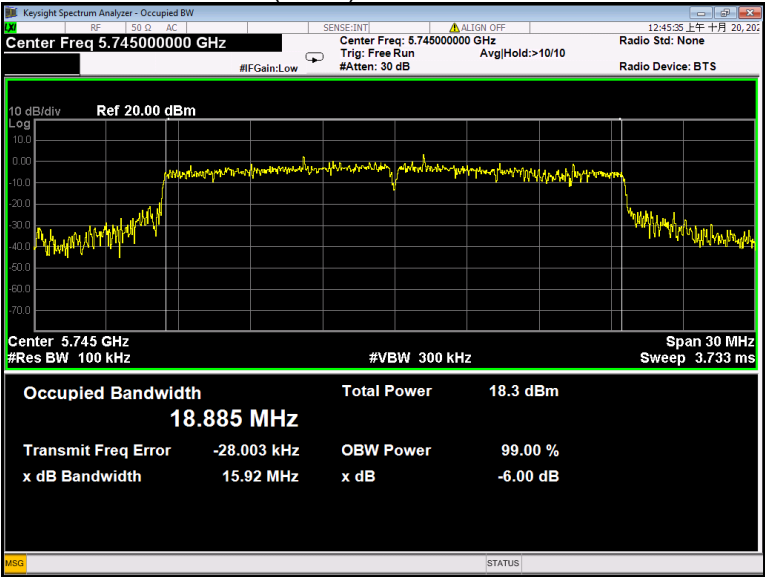
802.11ac(VHT40) U-NII-3 Low channel



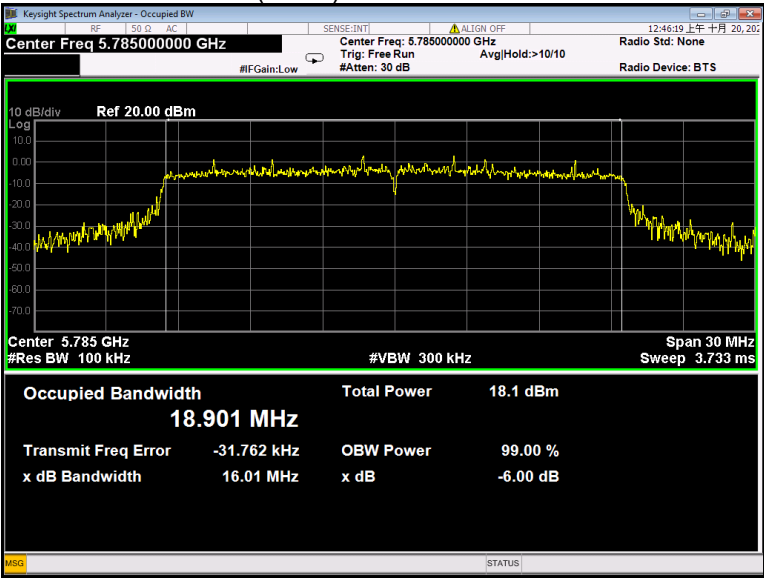
802.11ac(VHT40) U-NII-3 High channel



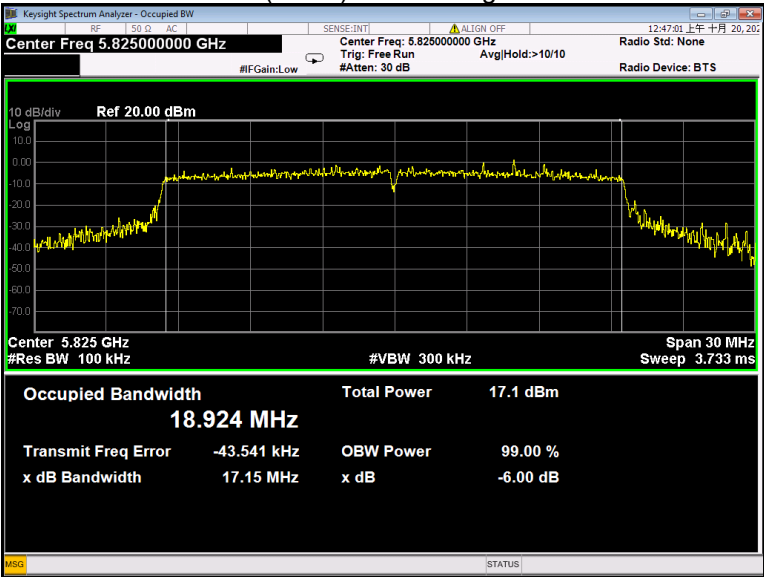
802.11ax(HE20) U-NII-3 Low channel



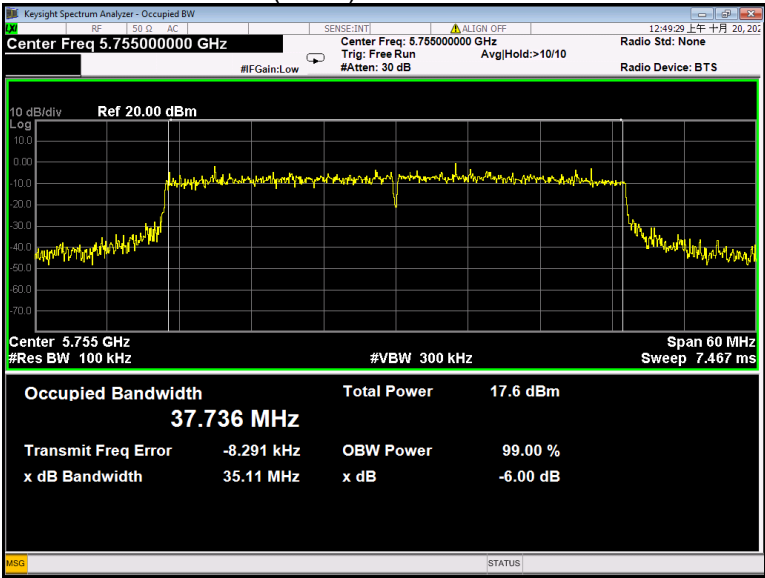
802.11ax(HE20) U-NII-3 Middle channel



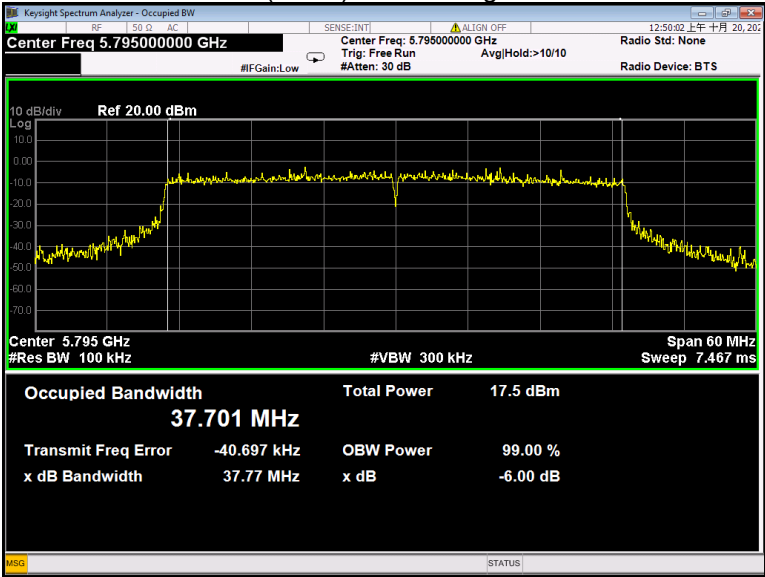
802.11ax(HE20) U-NII-3 High channel



802.11ax(HE40) U-NII-3 Low channel



802.11ax(HE40) U-NII-3 High channel



12 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407 (a) KDB789033 D02 General U-NII Test Procedures New Rules v02r01
Test Method:	Section D ANSI C63.10-2020+A1-2024
Test Limit:	No restriction limits
Test Result:	PASS

12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1% to 5% of the OBW, VBW = 3x RBW

12.2 Test Result

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	23.46	24.64	23.23	16.645	16.594	16.678
	802.11n(HT20)	23.66	25.34	23.47	17.766	17.789	17.779
	802.11n(HT40)	42.56	/	43.36	36.254	/	36.139
	802.11ac(VHT20)	23.68	23.21	23.27	17.759	17.740	17.791
	802.11ac(VHT40)	43.96	/	36.150	36.277	/	36.150
	802.11ax(HE20)	22.92	23.96	22.96	18.989	18.985	18.990
	802.11ax(HE40)	42.37	/	42.14	37.712	/	37.772

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2A	802.11a	22.79	21.96	23.11	16.601	16.621	16.653
	802.11n(HT20)	24.00	25.54	23.96	17.778	17.679	17.693
	802.11n(HT40)	43.47	/	44.72	36.246	/	36.256
	802.11ac(VHT20)	23.77	23.70	24.43	17.670	17.714	17.780
	802.11ac(VHT40)	43.28	/	41.97	36.164	/	36.234
	802.11ax(HE20)	25.08	24.00	25.28	19.003	18.914	18.961
	802.11ax(HE40)	41.41	/	45.61	37.705	/	37.782

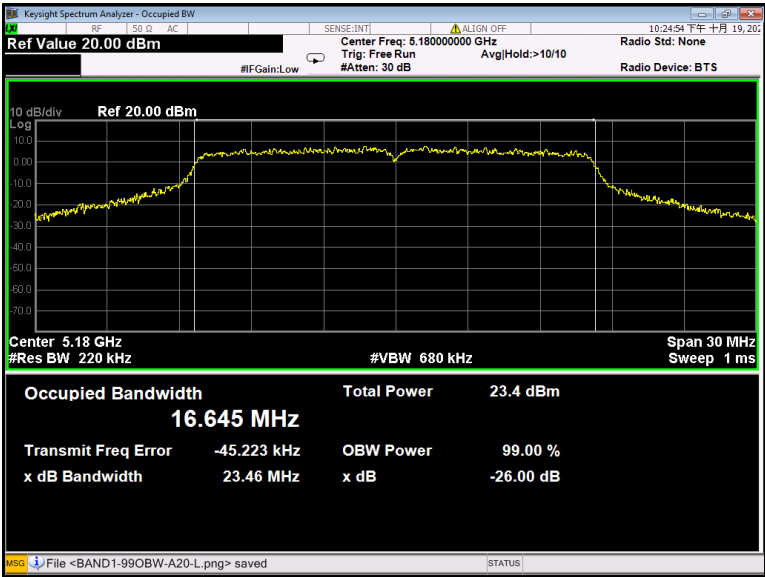
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-2C	802.11a	25.20	22.52	26.04	16.647	16.608	16.585
	802.11n(HT20)	28.26	22.42	25.08	17.661	17.670	17.741
	802.11n(HT40)	43.60	40.85	52.00	36.169	36.186	36.277
	802.11ac(VHT20)	25.04	23.28	25.45	17.799	17.675	17.695
	802.11ac(VHT40)	50.39	44.90	50.84	36.206	36.208	36.318
	802.11ax(HE20)	24.19	24.12	25.09	18.991	18.977	18.943
	802.11ax(HE40)	47.80	47.31	45.97	37.771	37.724	37.927

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-3	802.11a	22.77	23.74	22.08	16.589	16.569	16.602
	802.11n(HT20)	25.32	22.84	23.95	17.721	17.693	17.767
	802.11n(HT40)	42.76	/	43.75	36.143	/	36.180
	802.11ac(VHT20)	22.61	22.73	23.41	17.743	17.710	17.771
	802.11ac(VHT40)	42.86	/	43.28	36.144	/	36.250
	802.11ax(HE20)	23.98	23.65	23.76	19.000	18.966	18.945
	802.11ax(HE40)	42.47	/	42.21	37.707	/	37.684

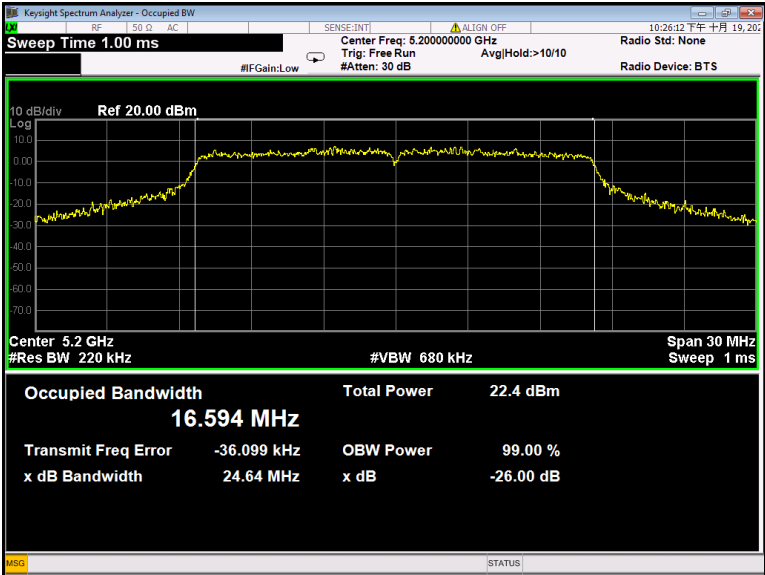
Test result plots shown as follows:

Bandwidth

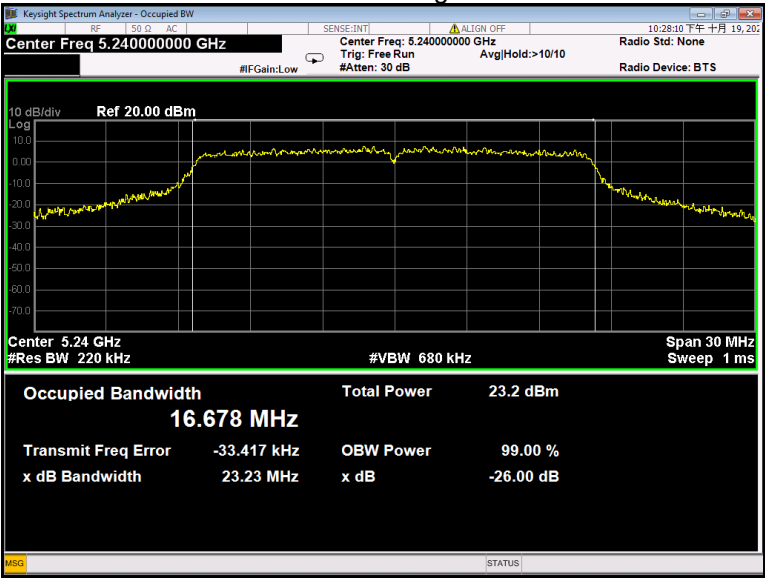
802.11a U-NII-1 Low channel



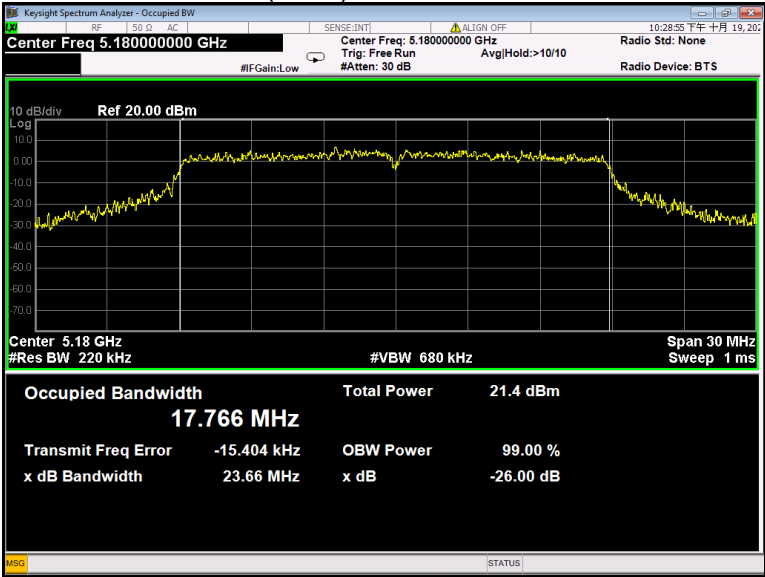
802.11a U-NII-1 Middle channel



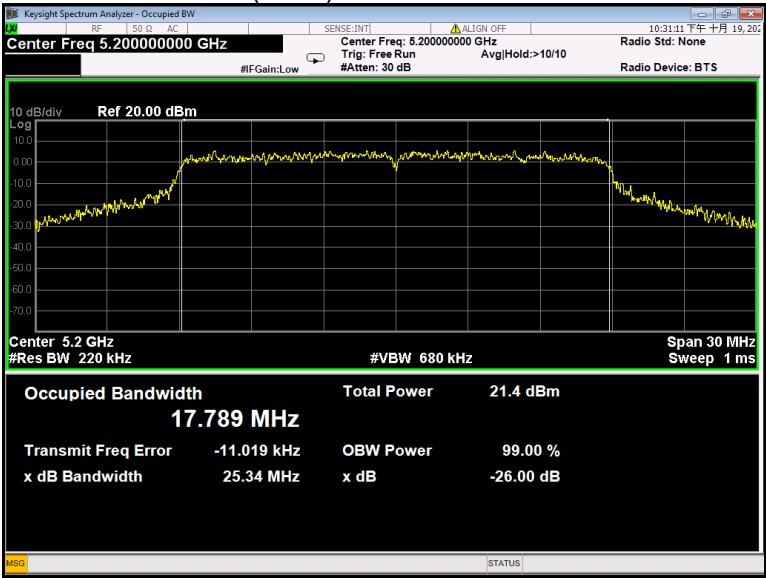
802.11a U-NII-1 High channel



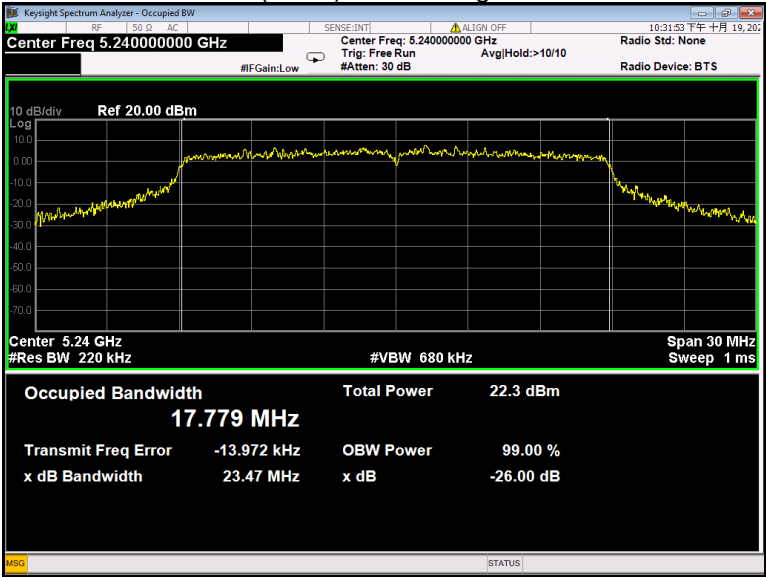
802.11n(HT20) U-NII-1 Low channel



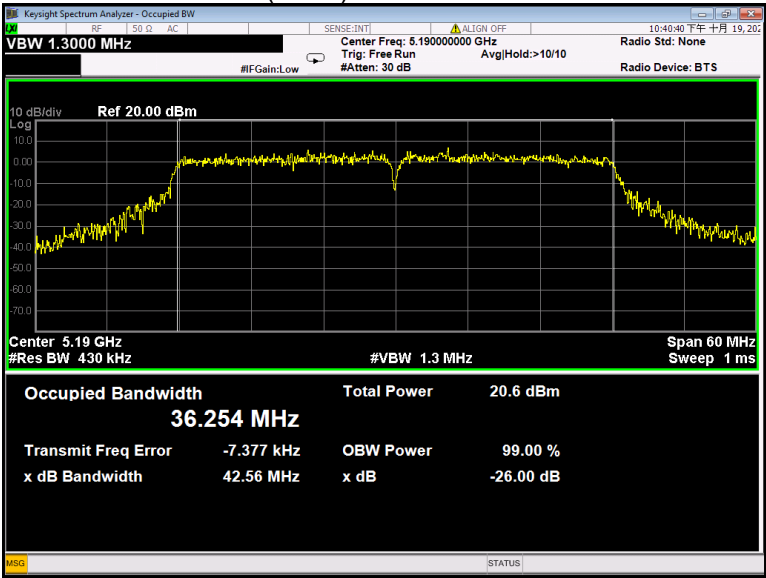
802.11n(HT20) U-NII-1 Middle channel



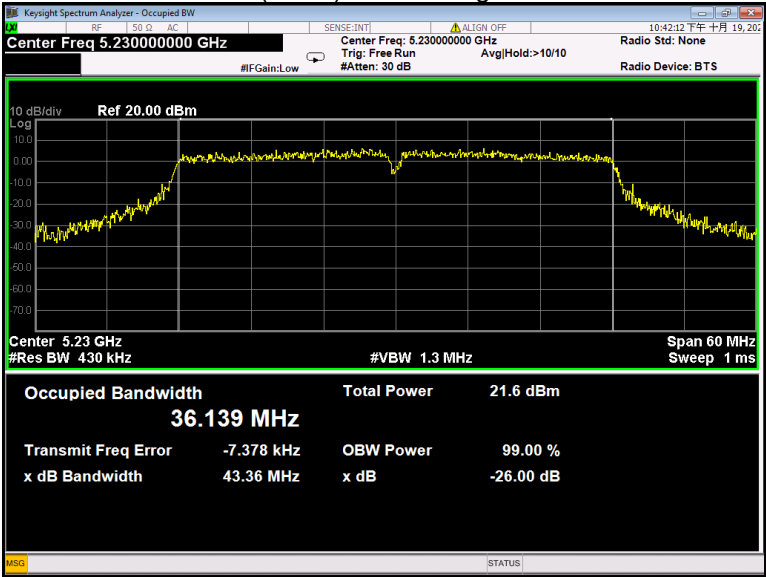
802.11n(HT20) U-NII-1 High channel

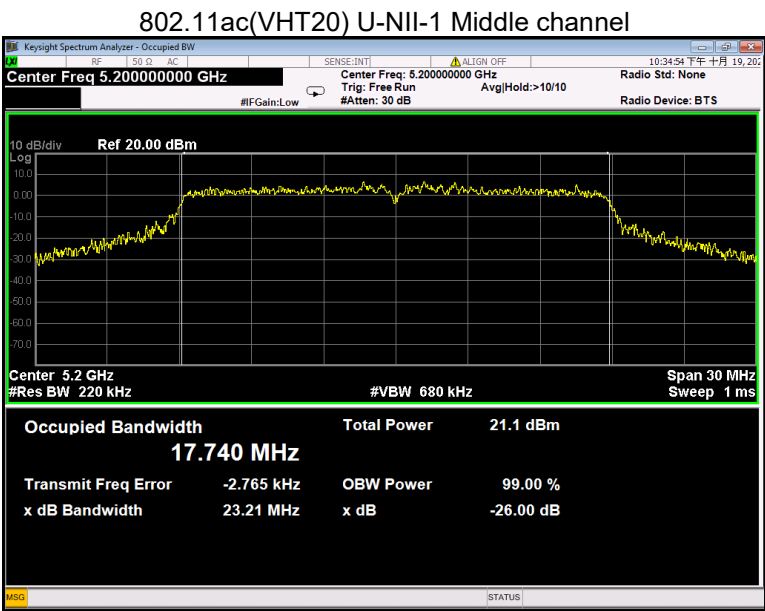
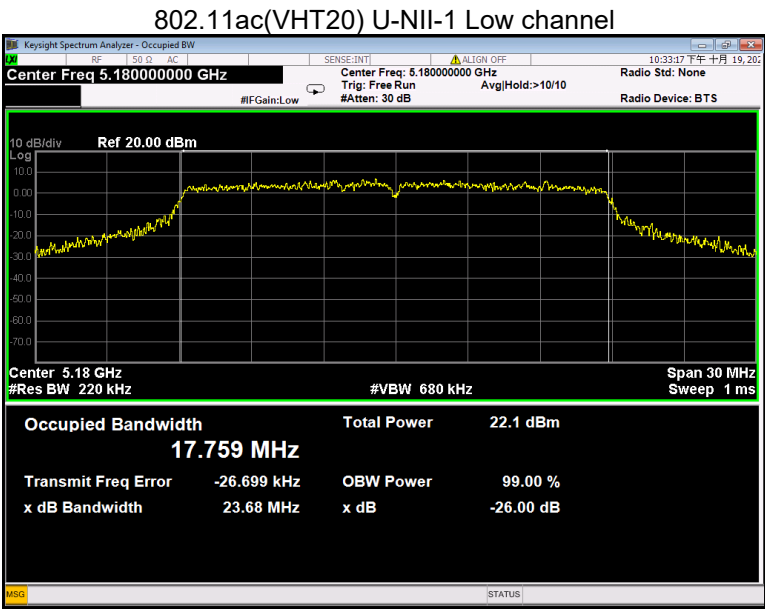


802.11n(HT40) U-NII-1 Low channel

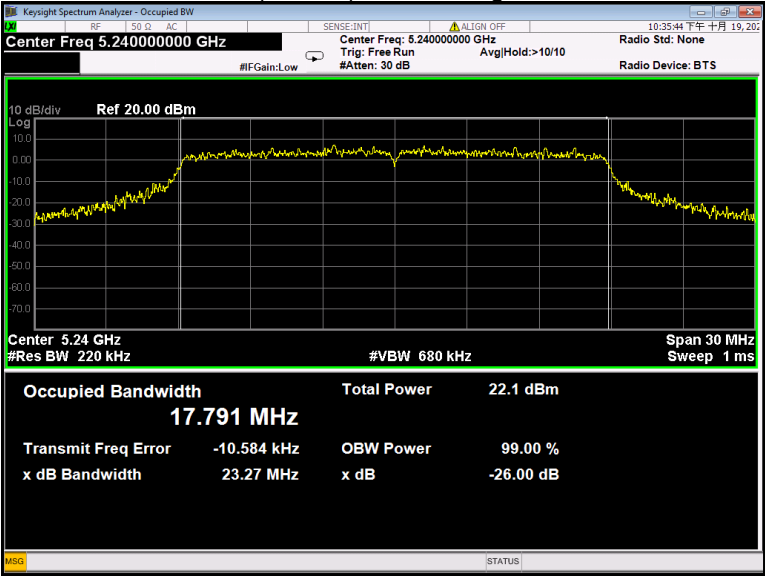


802.11n(HT40) U-NII-1 High channel

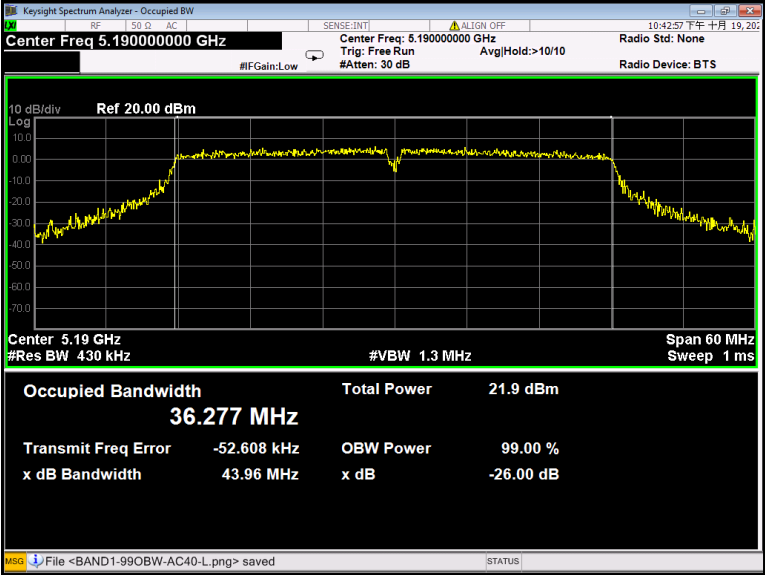




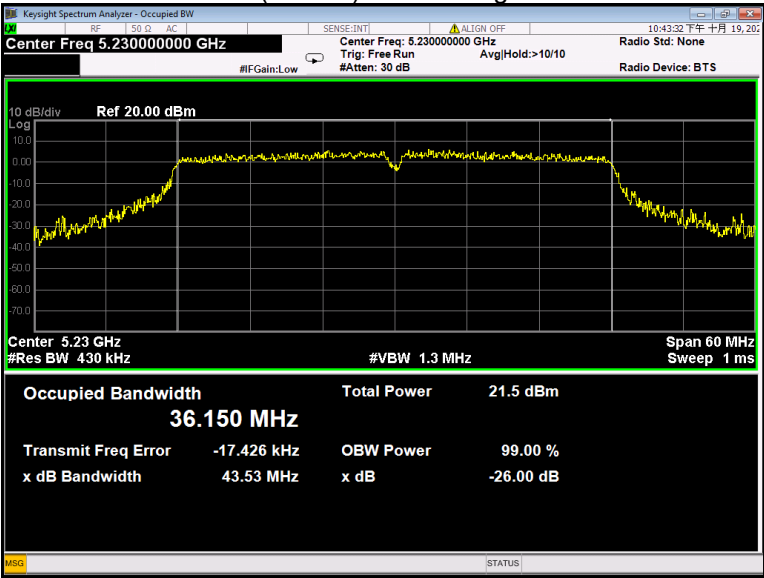
802.11ac(VHT20) U-NII-1 High channel



802.11ac(VHT40) U-NII-1 Low channel



802.11ac(VHT40) U-NII-1 High channel



802.11ax(HE20)U-NII-1 Low channel

