



6.7. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. Maximum Equivalent Isotropically Radiated Power(E.I.R.P.)

7.1. Test Limit

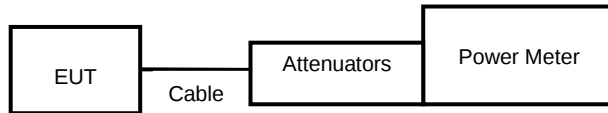
Frequency Band		Limit
☒	5.925~6.425GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	☐ For indoor access point :	e.i.r.p < 30 dBm.
	☐ For subordinate device control of an indoor access point :	e.i.r.p < 30 dBm.
	☐ For client device control of a standard power access point:	e.i.r.p < 30 dBm.
	☒ For client device control of an indoor access point:	e.i.r.p < 24 dBm.
	☐ For very low power devices	e.i.r.p < 14 dBm.
☒	6.425-6.525 GHz	
	Operating Mode	
	☐ For indoor access point	e.i.r.p < 30 dBm.
☒	☒ For client device control of an indoor access point ::	e.i.r.p < 24 dBm.
	6.525~6.875 GHz	
	Operating Mode	
	☐ For standard power access point and fixed client device :	e.i.r.p < 36 dBm , For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees not exceed 125 mW (21 dBm).
	☐ For indoor access point :	e.i.r.p < 30 dBm.
	☐ For subordinate device control of an indoor access point :	e.i.r.p < 30 dBm.
	☐ For client device control of a standard power access point:	e.i.r.p < 30 dBm.
	☒ For client device control of an indoor access point:	e.i.r.p < 24 dBm.
	☐ For very low power devices	e.i.r.p < 14 dBm.
☒	6.875-7.125 GHz	
	Operating Mode	
	☐ For indoor access point	e.i.r.p < 30 dBm.
	☒ For client device control of an indoor access point ::	e.i.r.p < 24 dBm.



7.2. Test Procedure

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

7.3. Test Setup Layout





7.4. Test Result and Data

For 24070407-TRFCC06

ESY2211E -SISO-ANT A- U-NII-5

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A						
11a	6 Mbps	12.5	1	5955	6.59	6.59	4.560	2.36	8.95	7.85	24.00
11a	6 Mbps	9.5	45	6175	6.36	6.36	4.325	2.36	8.72	7.45	24.00
11a	6 Mbps	11.5	93	6415	6.05	6.05	4.027	2.36	8.41	6.93	24.00

For SISO-ANT A - U-NII-6

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A						
11a	6 Mbps	11	97	6435	5.56	5.56	3.597	2.38	7.94	6.22	24.00
11a	6 Mbps	10.5	105	6475	5.04	5.04	3.192	2.38	7.42	5.52	24.00
11a	6 Mbps	11	113	6515	5.57	5.57	3.606	2.38	7.95	6.24	24.00



For ESY2211E -SISO-ANT A - U-NII-7

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A						
11a	6 Mbps	11.5	117	6535	6.12	6.12	4.093	2.38	8.50	7.08	24.00
11a	6 Mbps	10	153	6715	6.34	6.34	4.305	2.38	8.72	7.45	24.00
11a	6 Mbps	8	181	6855	6.30	6.30	4.266	2.38	8.68	7.38	24.00

For SISO-ANT A - U-NII-8

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A						
11a	6 Mbps	8.5	189	6895	6.64	6.64	4.613	2.28	8.92	7.80	24.00
11a	6 Mbps	11	213	7015	7.38	7.38	5.470	2.28	9.66	9.25	24.00
11a	6 Mbps	10.5	229	7095	6.01	6.01	3.990	2.28	8.29	6.75	24.00
11a	6 Mbps	7.5	233	7115	3.13	3.13	2.056	2.28	5.41	3.48	24.00



For ESY2211E -SISO-ANT A

Maximum Conducted Output Power (Within 6525-6875MHz band)										
RF Output Power(dBm)										
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A						
7.5	11a	6 Mbps	6875	2.34	2.34	0.00	2.34	2.38	4.72	24.00

Maximum Conducted Output Power (Extends across 6875MHz band)										
RF Output Power(dBm)										
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A						
7.5	11a	6 Mbps	6875	2.59	2.59	0.00	2.59	2.28	4.87	24.00



For ESY2211E -SISO-ANT B- U-NII-5

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT B						
11a	6 Mbps	12.5	1	5955	5.71	5.71	3.724	2.58	8.29	6.75	24.00
11a	6 Mbps	9.5	45	6175	2.79	2.79	1.901	2.58	5.37	3.44	24.00
11a	6 Mbps	8	93	6415	5.54	5.54	3.581	2.58	8.12	6.49	24.00

For SISO-ANT B - U-NII-6

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT B						
11a	6 Mbps	8	97	6435	5.13	5.13	3.258	2.05	7.18	5.22	24.00
11a	6 Mbps	7.5	105	6475	4.55	4.55	2.851	2.05	6.60	4.57	24.00
11a	6 Mbps	8	113	6515	5.43	5.43	3.491	2.05	7.48	5.60	24.00



For ESY2211E -SISO-ANT B - U-NII-7

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT B						
11a	6 Mbps	9	117	6535	6.01	6.01	3.990	2.47	8.48	7.05	24.00
11a	6 Mbps	9	153	6715	6.25	6.25	4.217	2.47	8.72	7.45	24.00
11a	6 Mbps	7.5	181	6855	5.87	5.87	3.864	2.47	8.34	6.82	24.00

For SISO-ANT B - U-NII-8

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT B						
11a	6 Mbps	8.5	189	6895	6.51	6.51	4.477	2.25	8.76	7.52	24.00
11a	6 Mbps	9	213	7015	7.17	7.17	5.212	2.25	9.42	8.75	24.00
11a	6 Mbps	8.5	229	7095	5.63	5.63	3.656	2.25	7.88	6.14	24.00
11a	6 Mbps	6	233	7115	3.05	3.05	2.018	2.25	5.30	3.39	24.00



For ESY2211E -SISO-ANT B

Maximum Conducted Output Power (Within 6525-6875MHz band)										
RF Output Power(dBm)										
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT B						
11	11a	6 Mbps	6875	2.77	2.77	0.00	2.77	2.47	5.24	24.00

Maximum Conducted Output Power (Extends across 6875MHz band)										
RF Output Power(dBm)										
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT B						
11	11a	6 Mbps	6875	2.99	2.99	0.00	2.99	2.25	5.24	24.00



For ESY2211E -MIMO- U-NII-5

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A	ANT B						
11ax HE20	NSS1-MCS0	6.5	1	5955	0.51	0.11	3.32	2.150	2.58	5.90	3.89	24.00
11ax HE20	NSS1-MCS0	4.5	45	6175	0.49	-1.04	2.80	1.906	2.58	5.38	3.45	24.00
11ax HE20	NSS1-MCS0	3	93	6415	-1.88	1.38	3.06	2.023	2.58	5.64	3.66	24.00
11ax HE40	NSS1-MCS0	9.5	3	5965	3.72	2.67	6.24	4.204	2.58	8.82	7.62	24.00
11ax HE40	NSS1-MCS0	7.5	43	6165	4.17	0.62	5.76	3.766	2.58	8.34	6.82	24.00
11ax HE40	NSS1-MCS0	6	91	6405	0.42	4.10	5.65	3.672	2.58	8.23	6.65	24.00
11ax HE80	NSS1-MCS0	12	7	5985	6.15	4.95	8.60	7.247	2.58	11.18	13.13	24.00
11ax HE80	NSS1-MCS0	11	39	6145	7.01	3.41	8.58	7.216	2.58	11.16	13.07	24.00
11ax HE80	NSS1-MCS0	10	87	6385	4.18	6.17	8.30	6.758	2.58	10.88	12.24	24.00
11ax HE160	NSS1-MCS0	15	15	6025	9.19	7.42	11.40	13.819	2.58	13.98	25.03	24.00
11ax HE160	NSS1-MCS0	13	47	6185	9.30	6.36	11.08	12.837	2.58	13.66	23.25	24.00
11ax HE160	NSS1-MCS0	12.5	79	6345	7.22	8.56	10.95	12.450	2.58	13.53	22.55	24.00

For MIMO- U-NII-6

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A	ANT B						
11ax HE20	NSS1-MCS0	1.5	97	6435	-2.27	1.19	2.81	1.908	2.38	5.19	3.30	24.00
11ax HE20	NSS1-MCS0	3	105	6475	-2.54	0.53	2.27	1.687	2.38	4.65	2.92	24.00
11ax HE20	NSS1-MCS0	4	113	6515	-1.95	0.74	2.61	1.824	2.38	4.99	3.16	24.00
11ax HE40	NSS1-MCS0	5.5	99	6445	0.05	3.66	5.23	3.334	2.38	7.61	5.77	24.00
11ax HE40	NSS1-MCS0	6	107	6485	-0.03	3.51	5.10	3.237	2.38	7.48	5.60	24.00
11ax HE80	NSS1-MCS0	9.5	103	6465	3.68	5.94	7.97	6.260	2.38	10.35	10.83	24.00



For ESY2211E -MIMO- U-NII-7

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A	ANT B						
11ax HE20	NSS1-MCS0	3	117	6535	-1.76	0.52	2.54	1.794	2.47	5.01	3.17	24.00
11ax HE20	NSS1-MCS0	2.5	153	6715	0.14	0.60	3.39	2.181	2.47	5.86	3.85	24.00
11ax HE20	NSS1-MCS0	1.5	181	6855	-0.38	0.43	3.05	2.020	2.47	5.52	3.57	24.00
11ax HE40	NSS1-MCS0	6.5	123	6565	1.22	3.36	5.43	3.492	2.47	7.90	6.17	24.00
11ax HE40	NSS1-MCS0	6	155	6725	3.41	2.87	6.16	4.129	2.47	8.63	7.29	24.00
11ax HE40	NSS1-MCS0	5	179	6845	3.09	3.41	6.26	4.230	2.47	8.73	7.47	24.00
11ax HE80	NSS1-MCS0	9.5	135	6625	4.29	5.64	8.03	6.350	2.47	10.50	11.21	24.00
11ax HE80	NSS1-MCS0	9.5	151	6705	5.18	5.97	8.60	7.250	2.47	11.07	12.80	24.00
11ax HE80	NSS1-MCS0	8.5	167	6785	5.59	5.35	8.48	7.050	2.47	10.95	12.45	24.00
11ax HE160	NSS1-MCS0	9.5	143	6665	5.25	6.01	8.66	7.340	2.47	11.13	12.96	24.00

For MIMO- U-NII-8

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A	ANT B						
11ax HE20	NSS1-MCS0	2	189	6895	-0.05	1.17	3.61	2.298	2.28	5.89	3.88	24.00
11ax HE20	NSS1-MCS0	1.5	213	7015	-1.88	1.61	3.22	2.097	2.28	5.50	3.55	24.00
11ax HE20	NSS1-MCS0	2.5	229	7095	-2.59	1.45	2.89	1.947	2.28	5.17	3.29	24.00
11ax HE20	NSS1-MCS0	0	233	7115	-4.63	-1.43	0.27	1.064	2.28	2.55	1.80	24.00
11ax HE40	NSS1-MCS0	4.5	195	6925	1.54	3.58	5.69	3.706	2.28	7.97	6.26	24.00
11ax HE40	NSS1-MCS0	5	211	7005	0.83	4.51	6.06	4.035	2.28	8.34	6.82	24.00
11ax HE40	NSS1-MCS0	6.5	227	7085	1.98	4.07	6.16	4.130	2.28	8.44	6.98	24.00
11ax HE80	NSS1-MCS0	7.5	199	6945	4.72	6.10	8.47	7.039	2.28	10.75	11.90	24.00
11ax HE80	NSS1-MCS0	9	215	7025	4.18	6.49	8.50	7.075	2.28	10.78	11.96	24.00
11ax HE160	NSS1-MCS0	11	207	6985	7.16	9.68	11.61	14.490	2.28	13.89	24.49	24.00



For ESY2211E -MIMO

Maximum Conducted Output Power (Within 6425-6525MHz band)											
RF Output Power(dBm)											
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)		W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A	ANT B						
7	11ax HE40	NSS1-MCS0	6525	-1.67	1.19	3.00	0.00	3.00	2.38	5.38	24.00
10	11ax HE80	NSS1-MCS0	6545	-3.10	-1.08	1.04	0.00	1.04	2.38	3.42	24.00
12	11ax HE160	NSS1-MCS0	6505	5.35	7.44	9.53	0.00	9.53	2.38	11.91	24.00

Maximum Conducted Output Power (Extends across 6525MHz band)											
RF Output Power(dBm)											
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)		W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A	ANT B						
7	11ax HE40	NSS1-MCS0	6525	-2.07	0.94	2.70	0.00	2.70	2.47	5.17	24.00
10	11ax HE80	NSS1-MCS0	6545	2.89	5.39	7.33	0.00	7.33	2.47	9.80	24.00
12	11ax HE160	NSS1-MCS0	6505	0.02	3.08	4.82	0.00	4.82	2.47	7.29	24.00



For ESY2211E -MIMO

Maximum Conducted Output Power (Within 6525-6875MHz band) RF Output Power(dBm)											
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)		W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A	ANT B						
2.5	11ax HE20	NSS1-MCS0	6875	-3.35	-2.48	0.12	0.00	0.12	2.47	2.59	24.00
4.5	11ax HE40	NSS1-MCS0	6885	-5.06	-4.35	-1.68	0.00	-1.68	2.47	0.79	24.00
8	11ax HE80	NSS1-MCS0	6865	3.61	3.52	6.58	0.00	6.58	2.47	9.05	24.00
11.5	11ax HE160	NSS1-MCS0	6825	8.00	7.90	10.96	0.00	10.96	2.47	13.43	24.00

Maximum Conducted Output Power (Extends across 6875MHz band) RF Output Power(dBm)											
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)		W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A	ANT B						
2.5	11ax HE20	NSS1-MCS0	6875	-2.93	-2.70	0.20	0.00	0.20	2.28	2.48	24.00
4.5	11ax HE40	NSS1-MCS0	6885	1.62	2.04	4.85	0.00	4.85	2.28	7.13	24.00
8	11ax HE80	NSS1-MCS0	6865	0.02	-0.85	2.62	0.00	2.62	2.28	4.90	24.00
11.5	11ax HE160	NSS1-MCS0	6825	-0.40	-1.65	2.03	0.00	2.03	2.28	4.31	24.00



Verify Data

ESY22I1E -SISO-ANT A- U-NII-5

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A						
11a	6 Mbps	9	1	5955	6.27	6.27	4.236	1.25	7.52	5.65	24.00
11a	6 Mbps	6.5	45	6175	5.99	5.99	3.972	1.25	7.24	5.30	24.00
11a	6 Mbps	6	93	6415	5.74	5.74	3.750	1.25	6.99	5.00	24.00

For SISO-ANT A - U-NII-6

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A						
11a	6 Mbps	6	97	6435	5.18	5.18	3.296	1.41	6.59	4.56	24.00
11a	6 Mbps	6	105	6475	4.63	4.63	2.904	1.41	6.04	4.02	24.00
11a	6 Mbps	7	113	6515	5.21	5.21	3.319	1.41	6.62	4.59	24.00



For ESY2211E -SISO-ANT A - U-NII-7

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A						
11a	6 Mbps	8	117	6535	5.78	5.78	3.784	1.41	7.19	5.24	24.00
11a	6 Mbps	9.5	153	6715	5.89	5.89	3.882	1.41	7.30	5.37	24.00
11a	6 Mbps	7.5	181	6855	5.77	5.77	3.776	1.41	7.18	5.22	24.00

For SISO-ANT A - U-NII-8

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A						
11a	6 Mbps	7.5	189	6895	6.24	6.24	4.207	1.75	7.99	6.30	24.00
11a	6 Mbps	8	213	7015	6.99	6.99	5.000	1.75	8.74	7.48	24.00
11a	6 Mbps	8.5	229	7095	5.68	5.68	3.698	1.75	7.43	5.53	24.00
11a	6 Mbps	5.5	233	7115	2.77	2.77	1.892	1.75	4.52	2.83	24.00



For ESY2211E -SISO-ANT A

Maximum Conducted Output Power (Within 6525-6875MHz band)										
RF Output Power(dBm)										
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A						
7	11a	6 Mbps	6875	-1.68	-1.68	0.00	-1.68	1.41	-0.27	24.00

Maximum Conducted Output Power (Extends across 6875MHz band)										
RF Output Power(dBm)										
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A						
7	11a	6 Mbps	6875	-1.41	-1.41	0.00	-1.41	1.75	0.34	24.00



For ESY2211E -SISO-ANT B- U-NII-5

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT B						
11a	6 Mbps	6	1	5955	5.37	5.37	3.443	1.39	6.76	4.74	24.00
11a	6 Mbps	6	45	6175	2.31	2.31	1.702	1.39	3.70	2.34	24.00
11a	6 Mbps	8.5	93	6415	5.11	5.11	3.243	1.39	6.50	4.47	24.00

For SISO-ANT B - U-NII-6

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT B						
11a	6 Mbps	8	97	6435	4.76	4.76	2.992	0.97	5.73	3.74	24.00
11a	6 Mbps	6.5	105	6475	4.22	4.22	2.642	0.97	5.19	3.30	24.00
11a	6 Mbps	7.5	113	6515	4.98	4.98	3.148	0.97	5.95	3.94	24.00



For ESY2211E -SISO-ANT B - U-NII-7

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT B						
11a	6 Mbps	8	117	6535	5.48	5.48	3.532	1.29	6.77	4.75	24.00
11a	6 Mbps	8.5	153	6715	5.82	5.82	3.819	1.29	7.11	5.14	24.00
11a	6 Mbps	7.5	181	6855	5.50	5.50	3.548	1.29	6.79	4.78	24.00

For SISO-ANT B - U-NII-8

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT B						
11a	6 Mbps	10.5	189	6895	6.11	6.11	4.083	1.77	7.88	6.14	24.00
11a	6 Mbps	11.5	213	7015	6.72	6.72	4.699	1.77	8.49	7.06	24.00
11a	6 Mbps	9.5	229	7095	5.11	5.11	3.243	1.77	6.88	4.88	24.00
11a	6 Mbps	7.5	233	7115	2.73	2.73	1.875	1.77	4.50	2.82	24.00



For ESY2211E -SISO-ANT B

Maximum Conducted Output Power (Within 6525-6875MHz band)										
RF Output Power(dBm)										
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT B						
7.5	11a	6 Mbps	6875	2.69	2.69	0.00	2.69	1.29	3.98	24.00

Maximum Conducted Output Power (Extends across 6875MHz band)										
RF Output Power(dBm)										
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)	W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT B						
7.5	11a	6 Mbps	6875	2.74	2.74	0.00	2.74	1.77	4.51	24.00



For ESY2211E -MIMO- U-NII-5

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A	ANT B						
11ax HE20	NSS1-MCS0	2	1	5955	0.25	-0.12	3.08	2.032	1.39	4.47	2.80	24.00
11ax HE20	NSS1-MCS0	2	45	6175	0.18	-1.35	2.49	1.775	1.39	3.88	2.44	24.00
11ax HE20	NSS1-MCS0	-1	93	6415	-2.21	0.98	2.68	1.854	1.39	4.07	2.55	24.00
11ax HE40	NSS1-MCS0	4.5	3	5965	3.37	2.31	5.88	3.875	1.39	7.27	5.34	24.00
11ax HE40	NSS1-MCS0	4	43	6165	3.91	0.29	5.48	3.529	1.39	6.87	4.86	24.00
11ax HE40	NSS1-MCS0	1	91	6405	0.12	3.73	5.30	3.388	1.39	6.69	4.67	24.00
11ax HE80	NSS1-MCS0	7	7	5985	5.85	4.64	8.30	6.757	1.39	9.69	9.31	24.00
11ax HE80	NSS1-MCS0	7.5	39	6145	6.67	3.07	8.24	6.673	1.39	9.63	9.19	24.00
11ax HE80	NSS1-MCS0	7	87	6385	3.79	5.86	7.96	6.248	1.39	9.35	8.60	24.00
11ax HE160	NSS1-MCS0	10	15	6025	8.90	7.12	11.11	12.915	1.39	12.50	17.79	24.00
11ax HE160	NSS1-MCS0	10	47	6185	9.00	5.97	10.75	11.897	1.39	12.14	16.38	24.00
11ax HE160	NSS1-MCS0	9	79	6345	6.86	8.21	10.60	11.475	1.39	11.99	15.80	24.00

For MIMO- U-NII-6

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A	ANT B						
11ax HE20	NSS1-MCS0	-2	97	6435	-2.67	0.78	2.40	1.737	1.41	3.81	2.40	24.00
11ax HE20	NSS1-MCS0	-2.5	105	6475	-2.87	0.07	1.85	1.533	1.41	3.26	2.12	24.00
11ax HE20	NSS1-MCS0	-2	113	6515	-2.32	0.45	2.29	1.695	1.41	3.70	2.35	24.00
11ax HE40	NSS1-MCS0	0.5	99	6445	-0.29	3.36	4.92	3.103	1.41	6.33	4.29	24.00
11ax HE40	NSS1-MCS0	1	107	6485	-0.37	3.21	4.79	3.012	1.41	6.20	4.17	24.00
11ax HE80	NSS1-MCS0	7	103	6465	3.40	5.54	7.61	5.769	1.41	9.02	7.98	24.00



For ESY2211E -MIMO- U-NII-7

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A	ANT B						
11ax HE20	NSS1-MCS0	-2.5	117	6535	-2.03	0.22	2.25	1.679	1.41	3.66	2.32	24.00
11ax HE20	NSS1-MCS0	0	153	6715	-0.21	0.27	3.05	2.017	1.41	4.46	2.79	24.00
11ax HE20	NSS1-MCS0	0	181	6855	-0.78	0.03	2.65	1.843	1.41	4.06	2.55	24.00
11ax HE40	NSS1-MCS0	1	123	6565	0.98	2.97	5.10	3.235	1.41	6.51	4.48	24.00
11ax HE40	NSS1-MCS0	3.5	155	6725	3.08	2.51	5.81	3.815	1.41	7.22	5.28	24.00
11ax HE40	NSS1-MCS0	3	179	6845	2.75	3.08	5.93	3.916	1.41	7.34	5.42	24.00
11ax HE80	NSS1-MCS0	8	135	6625	3.97	5.37	7.74	5.938	1.41	9.15	8.22	24.00
11ax HE80	NSS1-MCS0	9	151	6705	4.85	5.73	8.32	6.796	1.41	9.73	9.40	24.00
11ax HE80	NSS1-MCS0	9	167	6785	5.24	5.01	8.14	6.512	1.41	9.55	9.01	24.00
11ax HE160	NSS1-MCS0	9	143	6665	4.89	5.71	8.33	6.807	1.41	9.74	9.42	24.00

For MIMO- U-NII-8

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total conducted power (dBm)	Total conducted power (mW)	Antenna Gain (dBi)	Total E.I.R.P (dBm)	Total E.I.R.P (mW)	E.I.R.P Limit (dBm)
					ANT A	ANT B						
11ax HE20	NSS1-MCS0	0	189	6895	-0.43	0.87	3.28	2.128	1.77	5.05	3.20	24.00
11ax HE20	NSS1-MCS0	1	213	7015	-2.24	1.31	2.90	1.949	1.77	4.67	2.93	24.00
11ax HE20	NSS1-MCS0	1.5	229	7095	-2.98	1.17	2.58	1.813	1.77	4.35	2.72	24.00
11ax HE20	NSS1-MCS0	-1	233	7115	-4.98	-1.77	-0.07	0.983	1.77	1.70	1.48	24.00
11ax HE40	NSS1-MCS0	2.5	195	6925	1.27	3.30	5.41	3.478	1.77	7.18	5.23	24.00
11ax HE40	NSS1-MCS0	4	211	7005	0.55	4.18	5.74	3.753	1.77	7.51	5.64	24.00
11ax HE40	NSS1-MCS0	5	227	7085	1.21	3.78	5.69	3.709	1.77	7.46	5.58	24.00
11ax HE80	NSS1-MCS0	7	199	6945	4.35	5.79	8.14	6.516	1.77	9.91	9.79	24.00
11ax HE80	NSS1-MCS0	8	215	7025	3.84	6.11	8.13	6.504	1.77	9.90	9.78	24.00
11ax HE160	NSS1-MCS0	11	207	6985	6.85	9.35	11.29	13.452	1.77	13.06	20.22	24.00



For ESY2211E -MIMO

Maximum Conducted Output Power (Within 6425-6525MHz band)											
RF Output Power(dBm)											
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)		W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A	ANT B						
4.5	11ax HE40	NSS1-MCS0	6525	-0.93	-0.15	2.49	0.00	2.49	1.41	3.90	24.00
8	11ax HE80	NSS1-MCS0	6545	-3.02	-1.47	0.83	0.00	0.83	1.41	2.24	24.00
10	11ax HE160	NSS1-MCS0	6505	6.43	6.49	9.47	0.00	9.47	1.41	10.88	24.00

Maximum Conducted Output Power (Extends across 6525MHz band)											
RF Output Power(dBm)											
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)		W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A	ANT B						
4.5	11ax HE40	NSS1-MCS0	6525	-1.28	-0.43	2.18	0.00	2.18	1.41	3.59	24.00
8	11ax HE80	NSS1-MCS0	6545	3.14	4.80	7.06	0.00	7.06	1.41	8.47	24.00
10	11ax HE160	NSS1-MCS0	6505	0.49	2.36	4.54	0.00	4.54	1.41	5.95	24.00



For ESY2211E -MIMO

Maximum Conducted Output Power (Within 6525-6875MHz band) RF Output Power(dBm)											
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)		W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A	ANT B						
1	11ax HE20	NSS1-MCS0	6875	-2.40	-4.23	-0.21	0.00	-0.21	1.41	1.20	24.00
3.5	11ax HE40	NSS1-MCS0	6885	-3.71	-5.74	-1.60	0.00	-1.60	1.41	-0.19	24.00
8	11ax HE80	NSS1-MCS0	6865	4.76	1.41	6.41	0.00	6.41	1.41	7.82	24.00
11	11ax HE160	NSS1-MCS0	6825	8.62	6.79	10.81	0.00	10.81	1.41	12.22	24.00

Maximum Conducted Output Power (Extends across 6875MHz band) RF Output Power(dBm)											
Setting	Modulation Type	Data Rate	Frequency (MHz)	W/O Duty Factor Measured value of each antenna port (dBm)		W/O duty factor Total power (dBm)	Duty Factor (dB)	With duty factor Total power (dBm)	Antenna Gain (dBi)	With duty factor EIRP (dBm)	EIRP Limit (dBm)
				ANT A	ANT B						
1	11ax HE20	NSS1-MCS0	6875	-2.11	-4.31	-0.06	0.00	-0.06	1.77	1.71	24.00
3.5	11ax HE40	NSS1-MCS0	6885	2.90	0.27	4.79	0.00	4.79	1.77	6.56	24.00
8	11ax HE80	NSS1-MCS0	6865	1.03	-3.00	2.48	0.00	2.48	1.77	4.25	24.00
11	11ax HE160	NSS1-MCS0	6825	0.02	-4.22	1.41	0.00	1.41	1.77	3.18	24.00



For 24070407-TRFCC06

ESY22I1E

Within 6525-6875MHz band

Modulation Type: 802.11a (6Mbps)

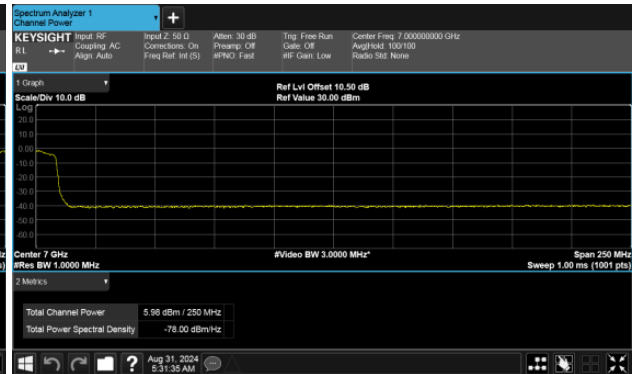
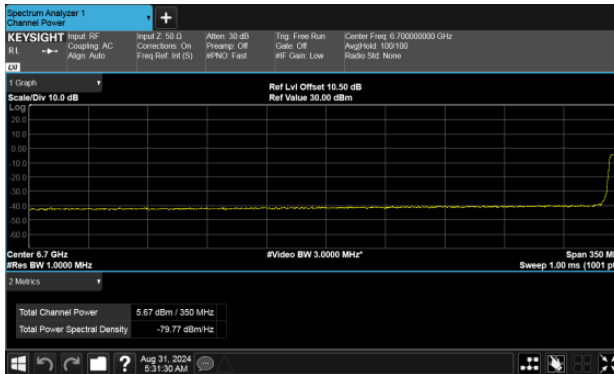
ANT A

CH 185

Extends across 6875MHz band

ANT A

CH 185





For ESY22I1E

Within 6525-6875MHz band

Modulation Type: 802.11a (6Mbps)

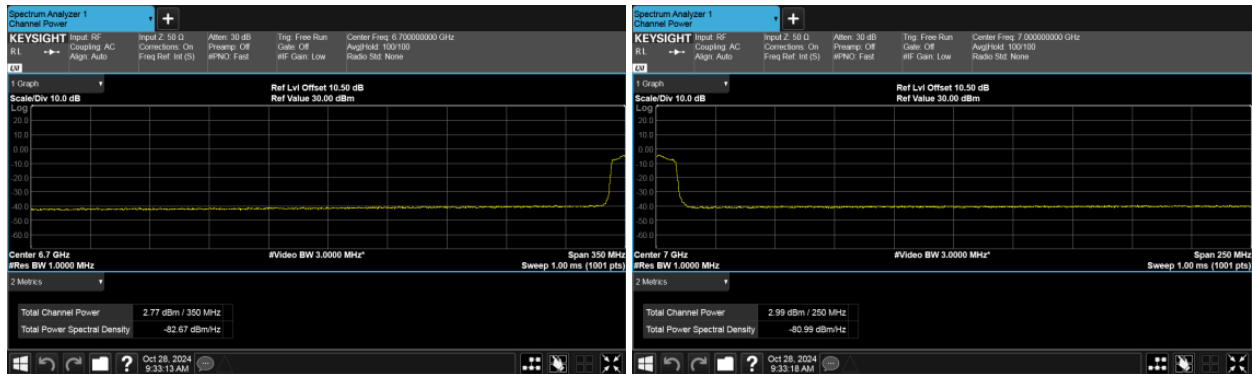
ANT B

CH 185

Extends across 6875MHz band

ANT B

CH 185



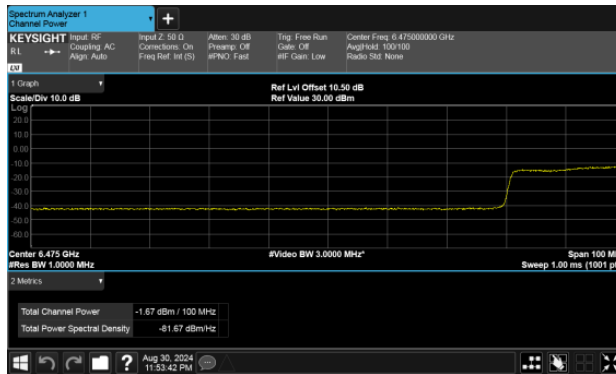


For ESY2211E

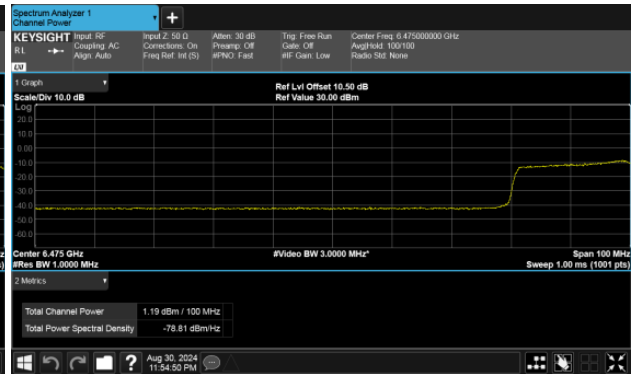
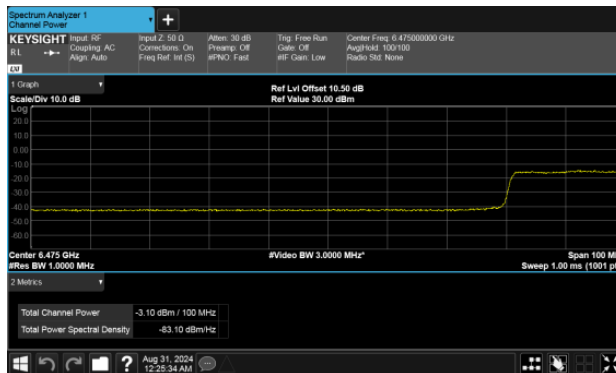
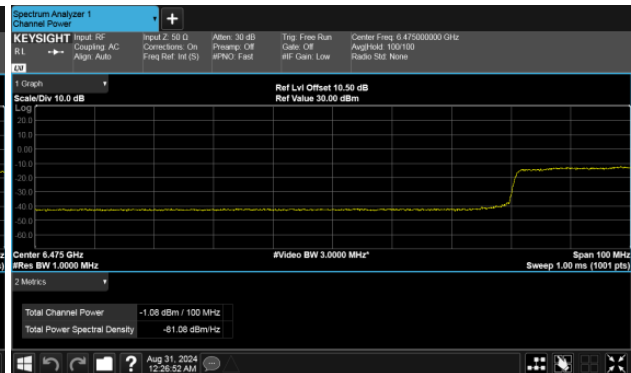
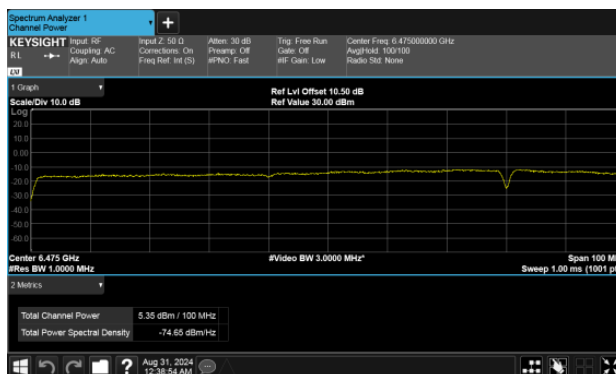
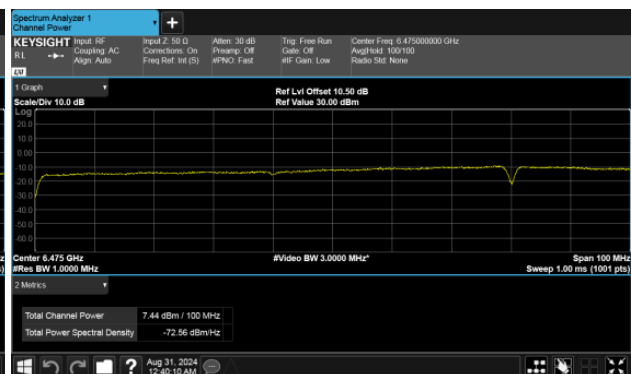
Within 6425-6525MHz band

MIMO

ANT A

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH115

ANT B

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH115Modulation Type: 802.11ax HE80 (30.6Mbps)
CH119Modulation Type: 802.11ax HE80 (30.6Mbps)
CH119Modulation Type: 802.11ax HE160 (61.3Mbps)
CH111Modulation Type: 802.11ax HE160 (61.3Mbps)
CH111



For ESY2211E

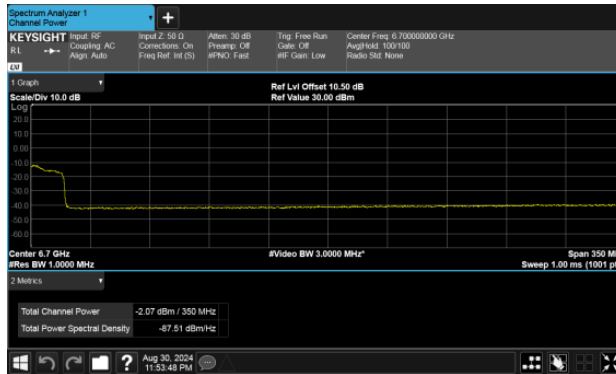
Extends across 6525MHz band

MIMO

ANT A

Modulation Type: 802.11ax HE40 (14.6Mbps)

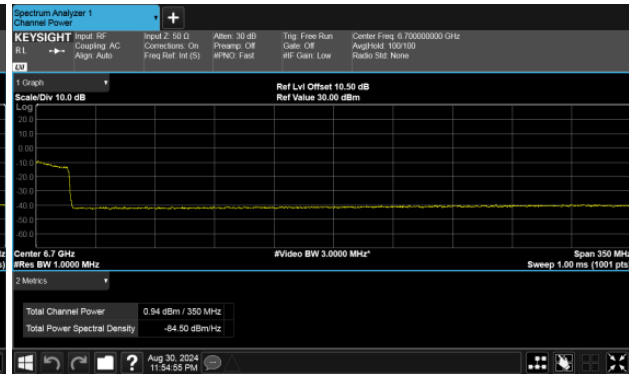
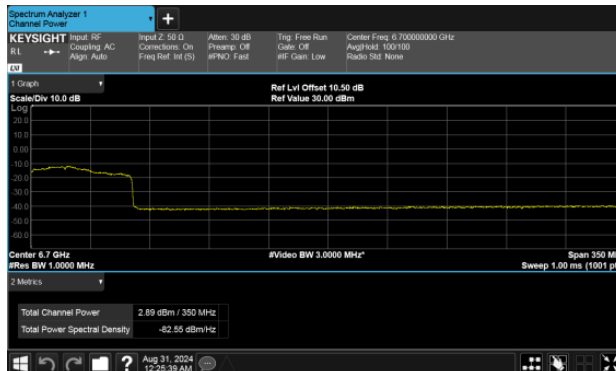
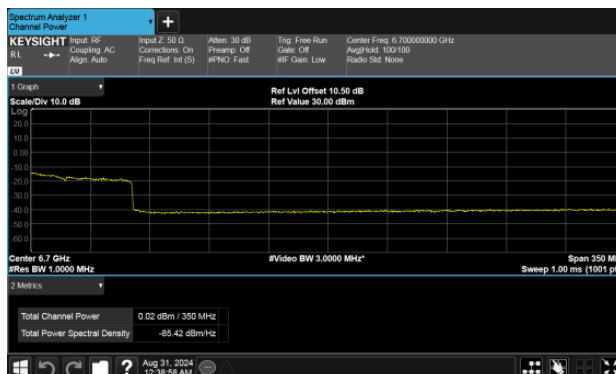
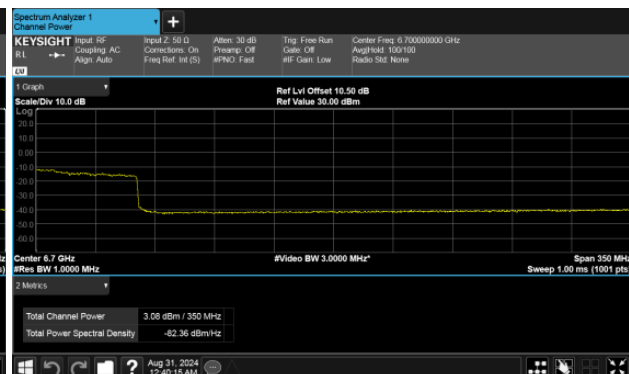
CH115



ANT B

Modulation Type: 802.11ax HE40 (14.6Mbps)

CH115

Modulation Type: 802.11ax HE80 (30.6Mbps)
CH119Modulation Type: 802.11ax HE80 (30.6Mbps)
CH119Modulation Type: 802.11ax HE160 (61.3Mbps)
CH111Modulation Type: 802.11ax HE160 (61.3Mbps)
CH111



For ESY2211E

Within 6525-6875MHz band

MIMO

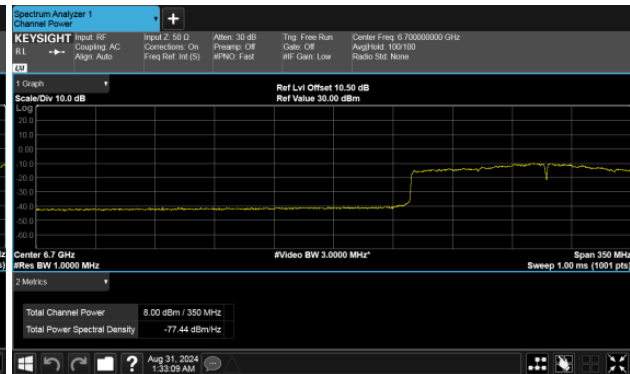
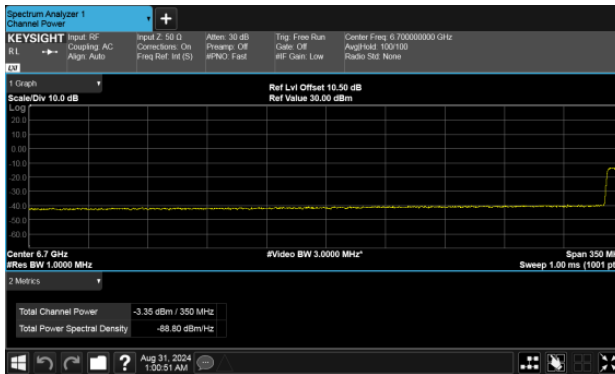
ANT A

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH185

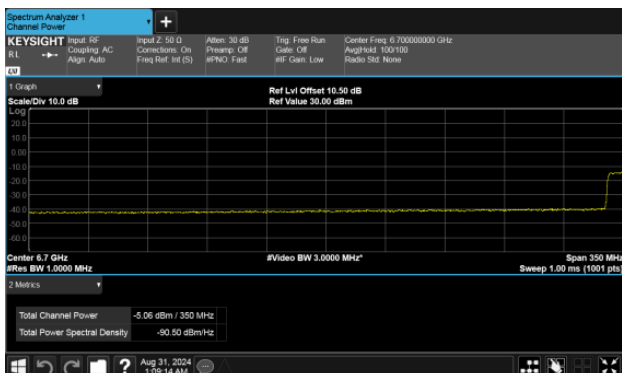
Modulation Type: 802.11ax HE160 (61.3Mbps)

CH175



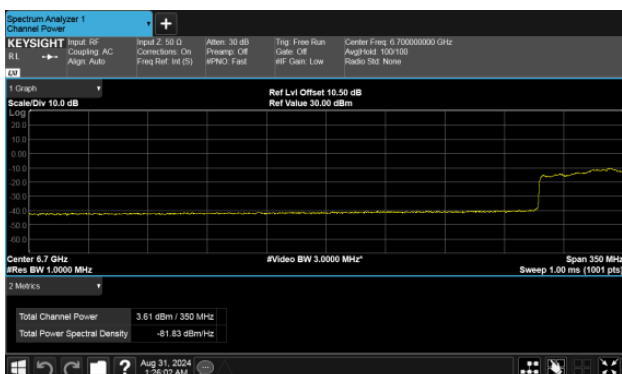
Modulation Type: 802.11ax HE40 (14.6Mbps)

CH187



Modulation Type: 802.11ax HE80 (30.6Mbps)

CH183





For ESY2211E

Within 6525-6875MHz band

MIMO

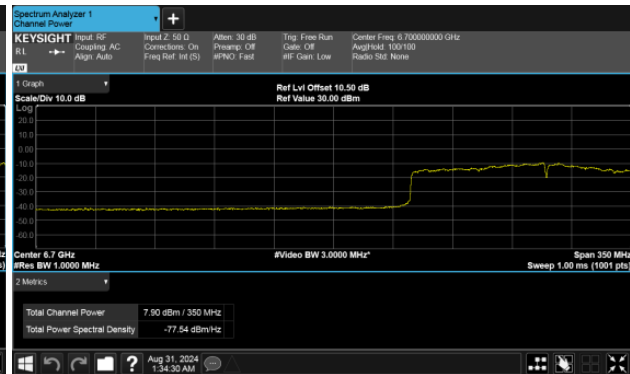
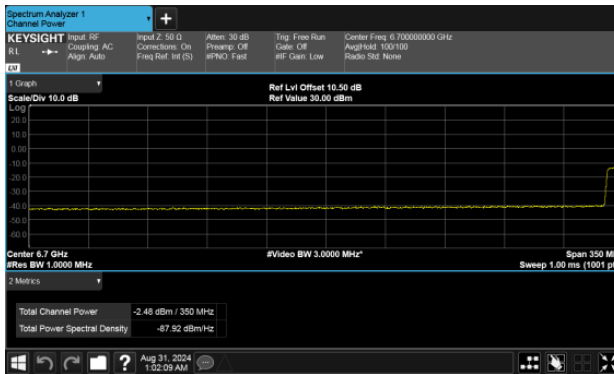
ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH185

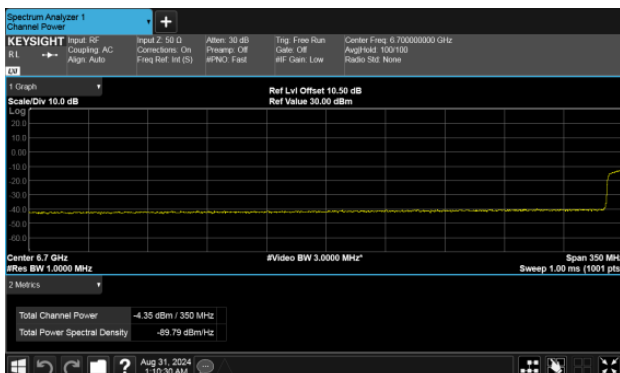
Modulation Type: 802.11ax HE160 (61.3Mbps)

CH175



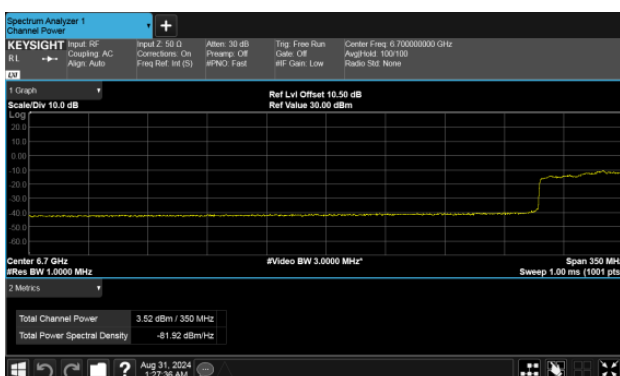
Modulation Type: 802.11ax HE40 (14.6Mbps)

CH187



Modulation Type: 802.11ax HE80 (30.6Mbps)

CH183





For ESY221E

Extends across 6875MHz band

MIMO

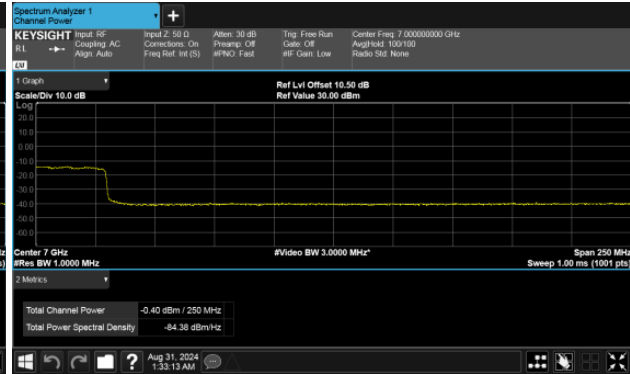
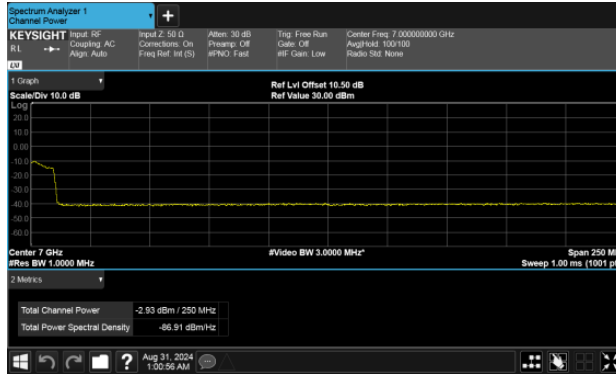
ANT A

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH185

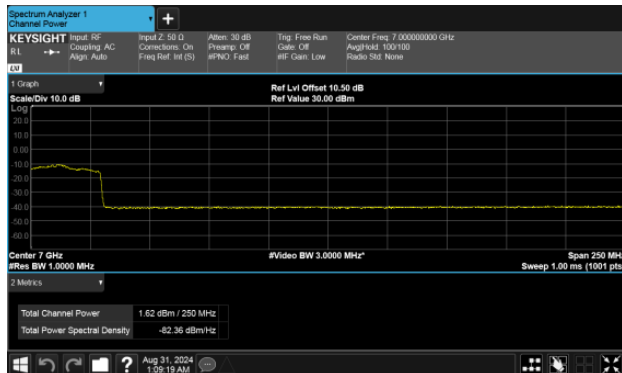
Modulation Type: 802.11ax HE160 (61.3Mbps)

CH175



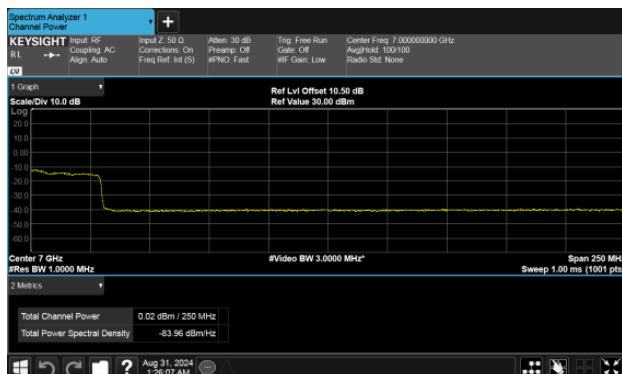
Modulation Type: 802.11ax HE40 (14.6Mbps)

CH187



Modulation Type: 802.11ax HE80 (30.6Mbps)

CH183





For ESY2211E

Extends across 6875MHz band

MIMO

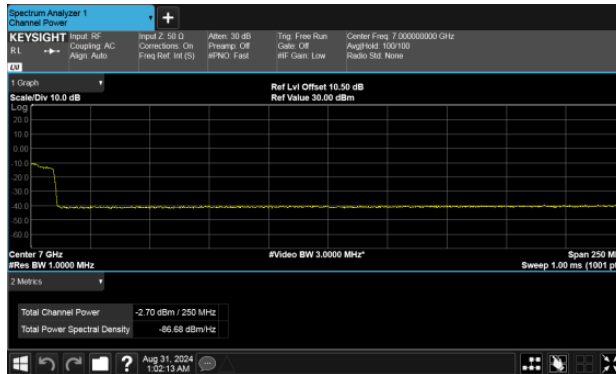
ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH185

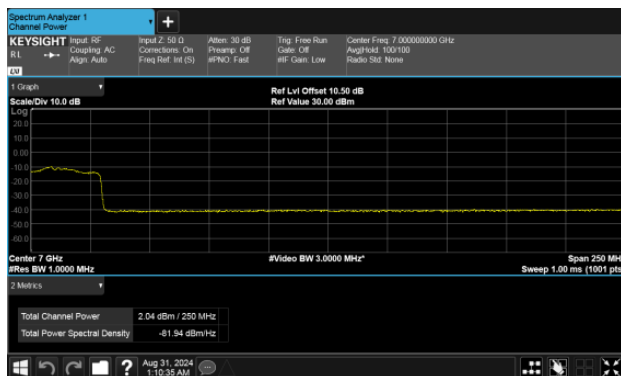
Modulation Type: 802.11ax HE160 (61.3Mbps)

CH175



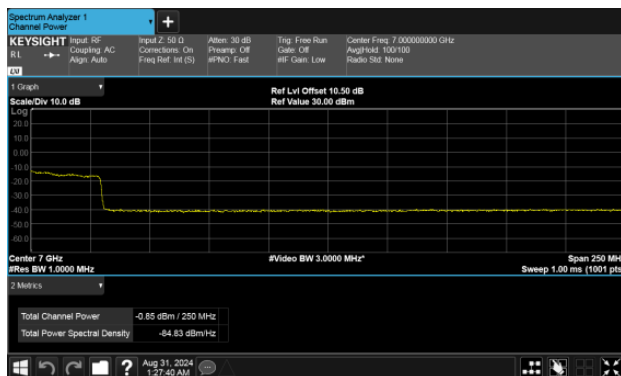
Modulation Type: 802.11ax HE40 (14.6Mbps)

CH187



Modulation Type: 802.11ax HE80 (30.6Mbps)

CH183





Verify Data

ESY2211E

Within 6525-6875MHz band

Modulation Type: 802.11a (6Mbps)

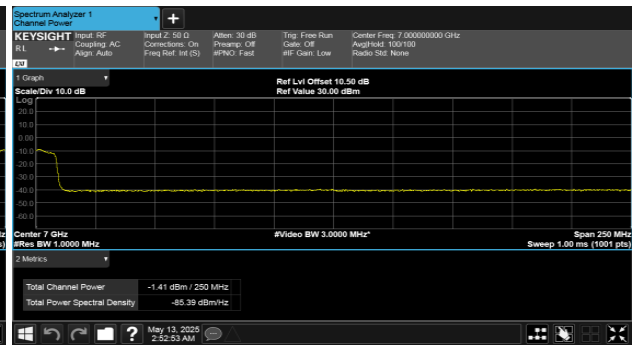
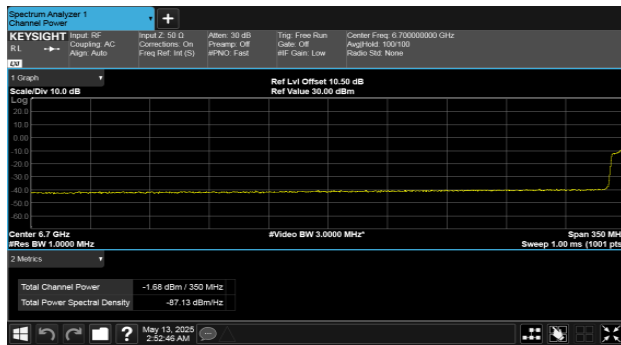
ANT A

CH 185

Extends across 6875MHz band

ANT A

CH 185





For ESY22I1E

Within 6525-6875MHz band

Modulation Type: 802.11a (6Mbps)

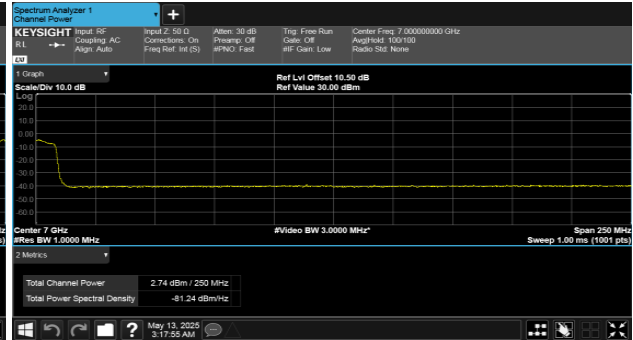
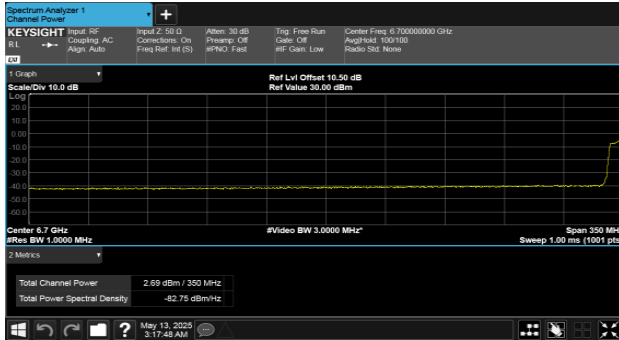
ANT B

CH 185

Extends across 6875MHz band

ANT B

CH 185





For ESY221E

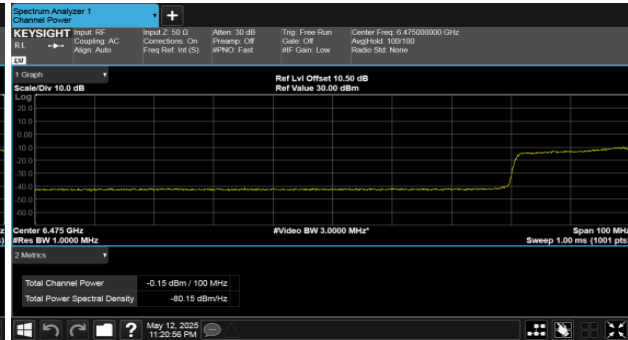
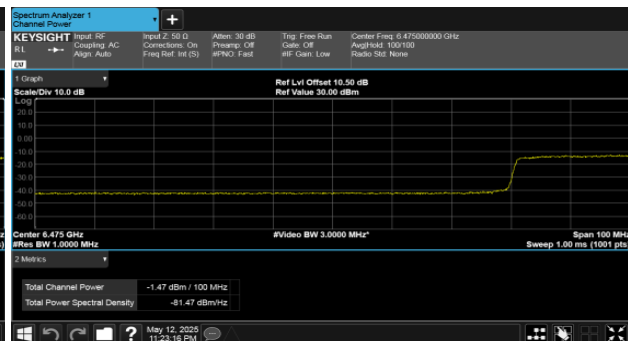
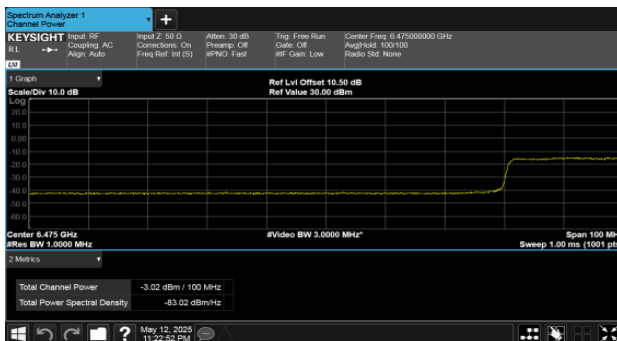
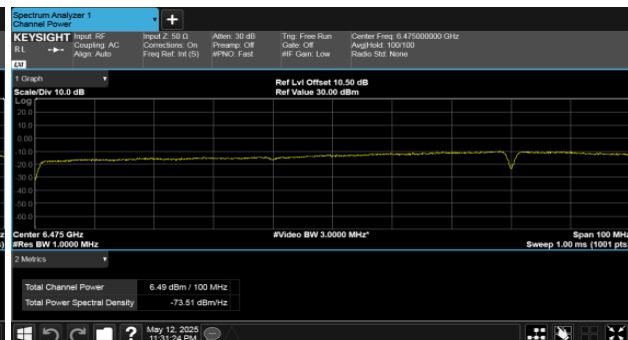
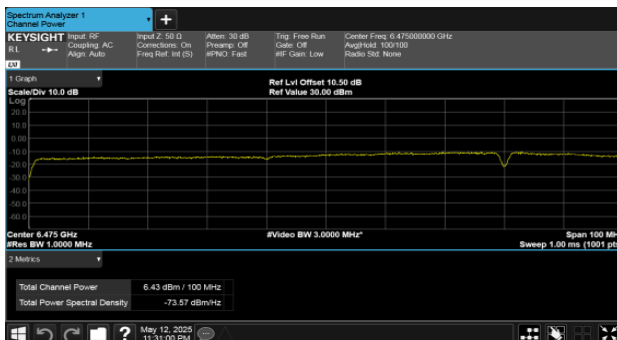
Within 6425-6525MHz band

MIMO

ANT A

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH115

ANT B

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH115Modulation Type: 802.11ax HE80 (30.6Mbps)
CH119Modulation Type: 802.11ax HE80 (30.6Mbps)
CH119Modulation Type: 802.11ax HE160 (61.3Mbps)
CH111Modulation Type: 802.11ax HE160 (61.3Mbps)
CH111



For ESY2211E

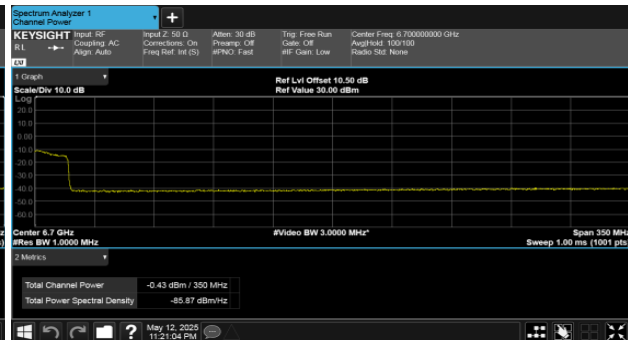
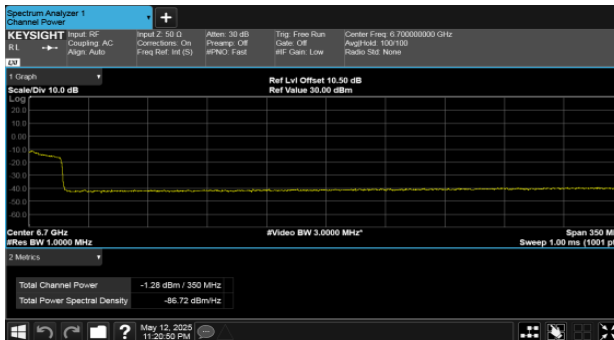
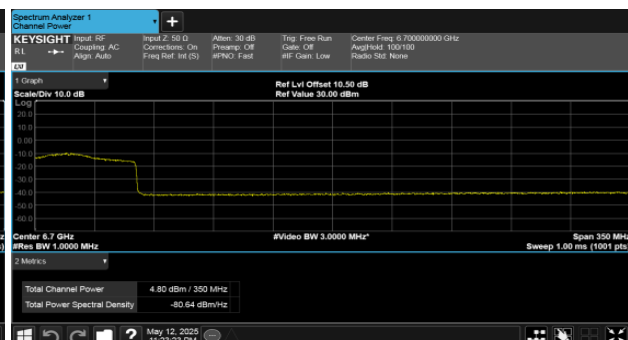
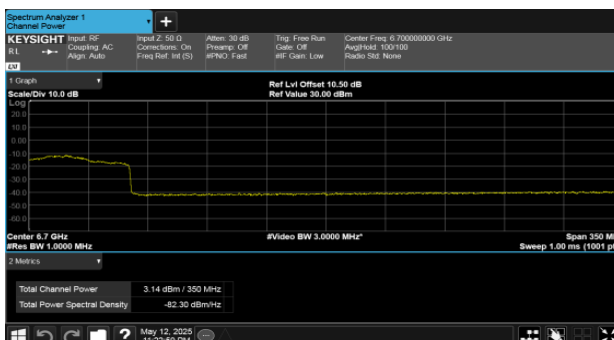
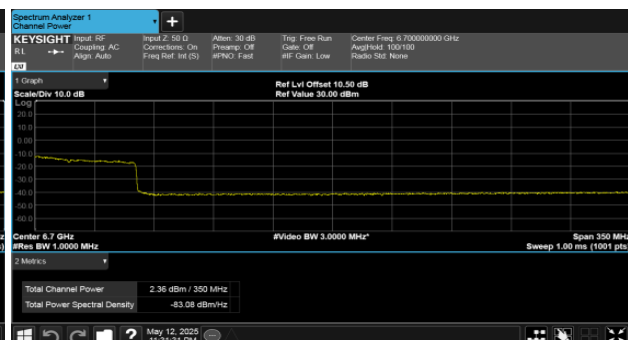
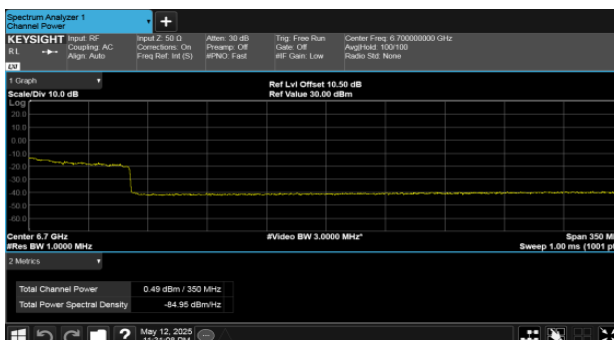
Extends across 6525MHz band

MIMO

ANT A

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH115

ANT B

Modulation Type: 802.11ax HE40 (14.6Mbps)
CH115Modulation Type: 802.11ax HE80 (30.6Mbps)
CH119Modulation Type: 802.11ax HE80 (30.6Mbps)
CH119Modulation Type: 802.11ax HE160 (61.3Mbps)
CH111Modulation Type: 802.11ax HE160 (61.3Mbps)
CH111



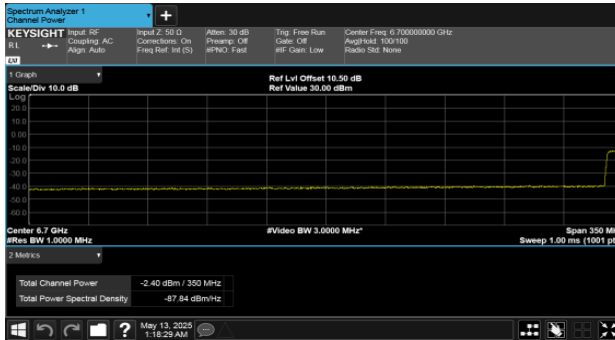
For ESY221E
Within 6525-6875MHz band

MIMO

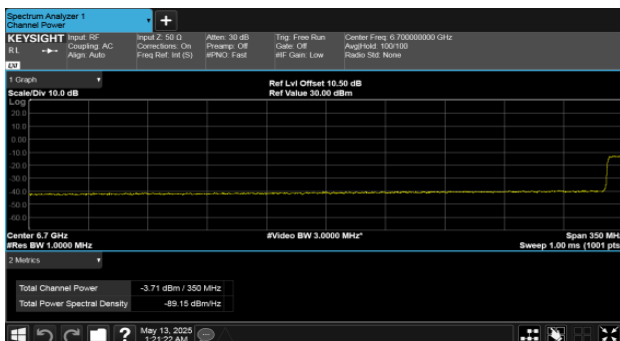
ANT A

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH185

Modulation Type: 802.11ax HE160 (61.3Mbps)
CH175



Modulation Type: 802.11ax HE40 (14.6Mbps)
CH187



Modulation Type: 802.11ax HE80 (30.6Mbps)
CH183





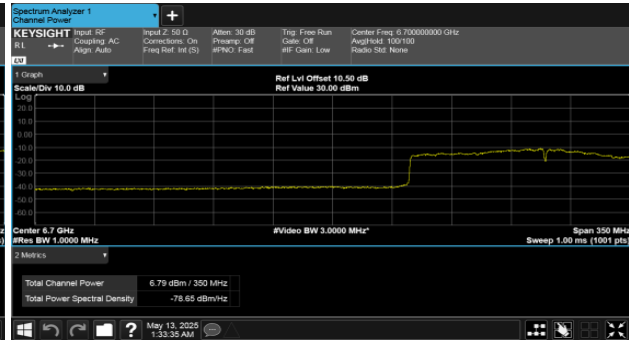
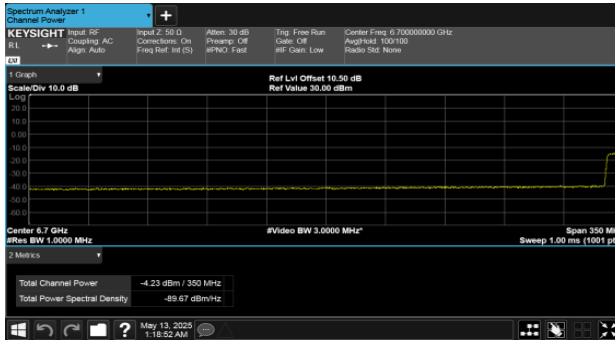
For ESY2211E
Within 6525-6875MHz band

MIMO

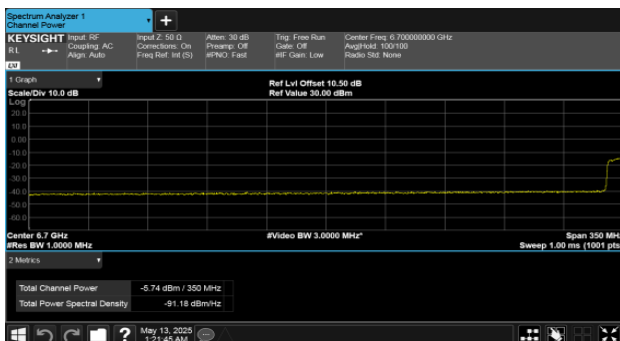
ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH185

Modulation Type: 802.11ax HE160 (61.3Mbps)
CH175



Modulation Type: 802.11ax HE40 (14.6Mbps)
CH187



Modulation Type: 802.11ax HE80 (30.6Mbps)
CH183





For ESY221E

Extends across 6875MHz band

MIMO

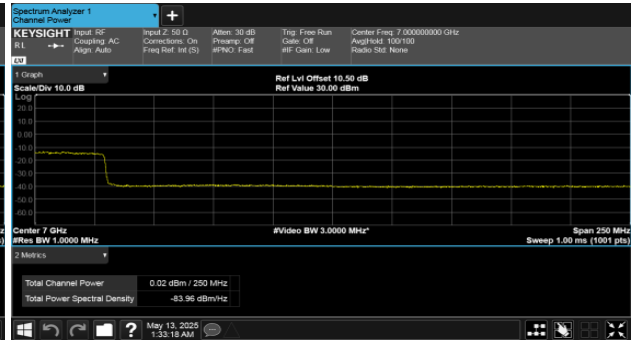
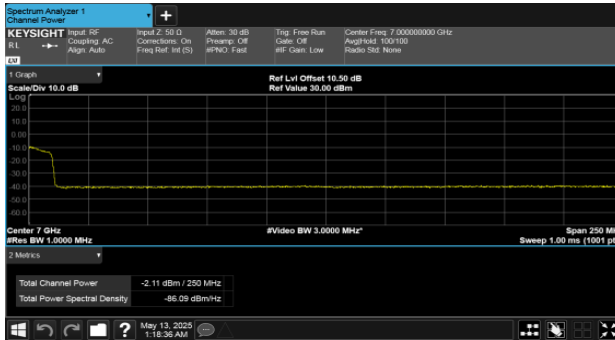
ANT A

Modulation Type: 802.11ax HE20 (7.3Mbps)

CH185

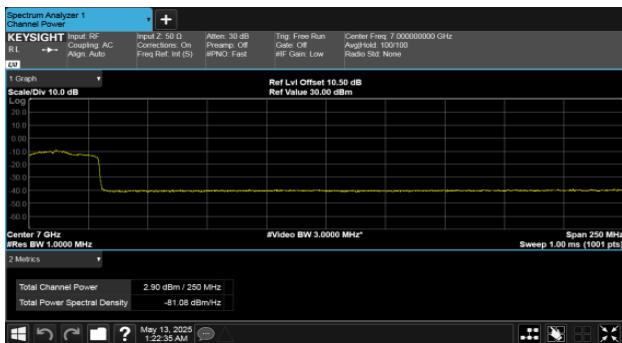
Modulation Type: 802.11ax HE160 (61.3Mbps)

CH175



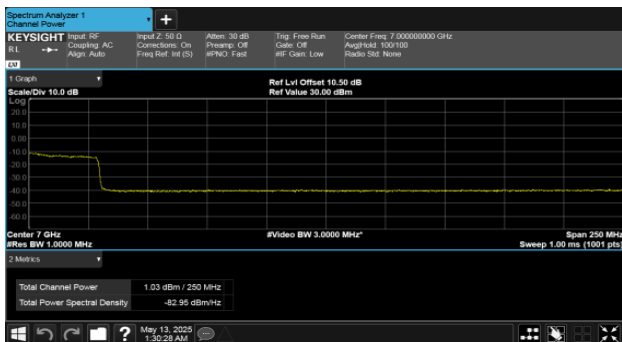
Modulation Type: 802.11ax HE40 (14.6Mbps)

CH187



Modulation Type: 802.11ax HE80 (30.6Mbps)

CH183





For ESY2211E

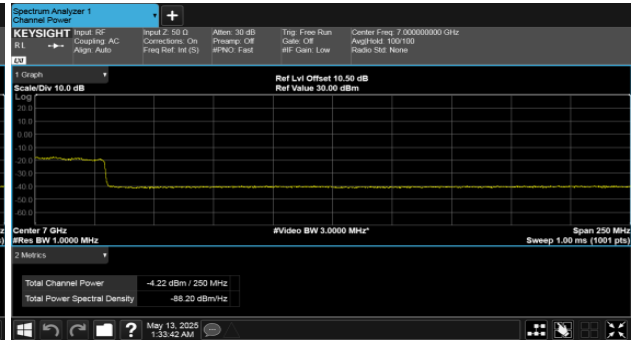
Extends across 6875MHz band

MIMO

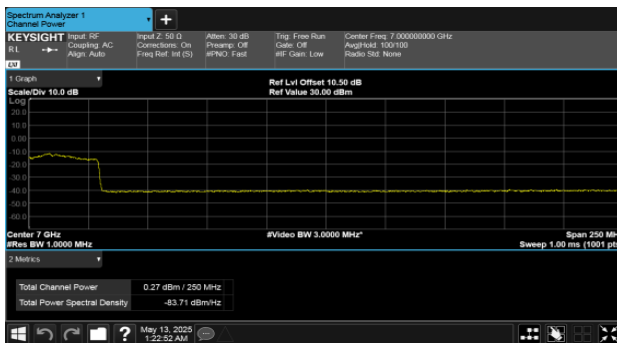
ANT B

Modulation Type: 802.11ax HE20 (7.3Mbps)
CH185

Modulation Type: 802.11ax HE160 (61.3Mbps)
CH175



Modulation Type: 802.11ax HE40 (14.6Mbps)
CH187



Modulation Type: 802.11ax HE80 (30.6Mbps)
CH183

