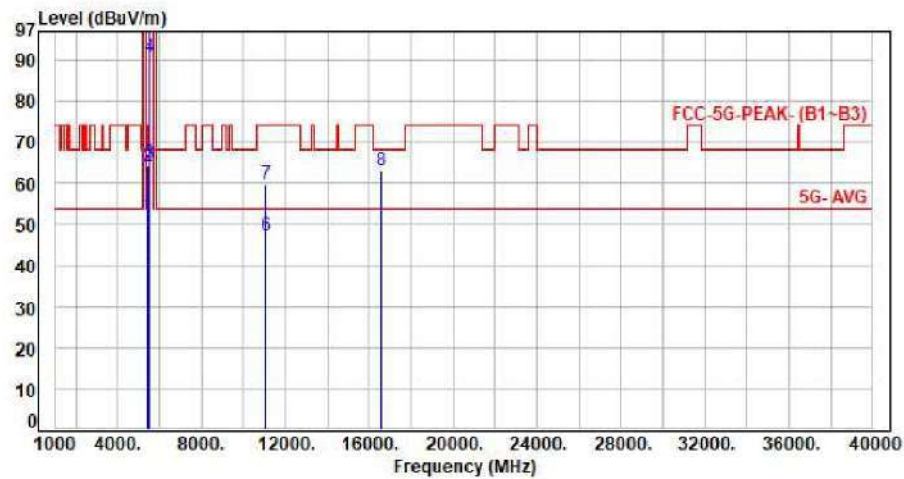




MIMO

Test Mode : 2TX 11ax80 CH106 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	44.45	52.00	54.00	-2.00	Average	137	41	P
2	5460.00	7.55	56.75	64.30	74.00	-9.70	Peak	137	41	P
3	5470.00	7.58	57.28	64.86	68.20	-3.34	Peak	137	41	P
4	5530.00	7.63	83.07	90.70	200.00	-109.30	Average	137	41	P
5	5530.00	7.63	94.21	101.84	200.00	-98.16	Peak	137	41	P
6	11060.00	17.87	29.47	47.34	54.00	-6.66	Average	100	188	P
7	11060.00	17.87	41.92	59.79	74.00	-14.21	Peak	100	188	P
8	16590.00	21.59	41.31	62.90	68.20	-5.30	Peak	100	164	P

Note: Level=Reading+Factor

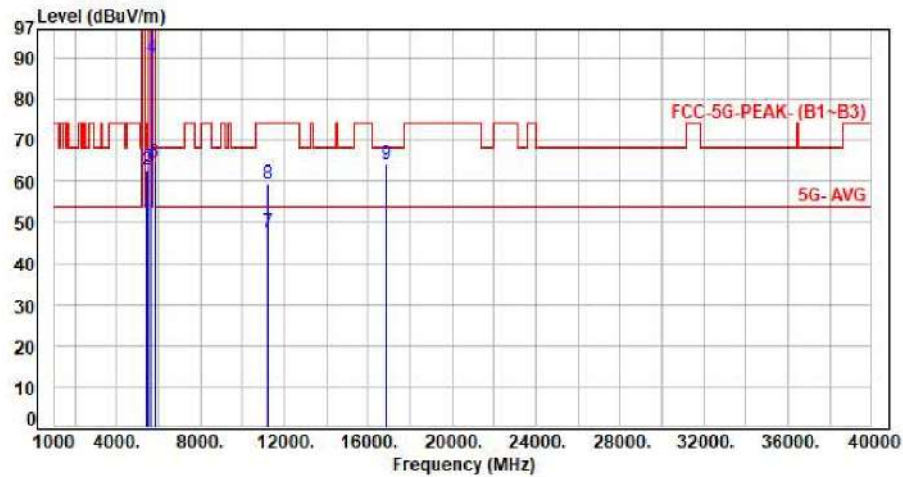
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax80 CH122 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



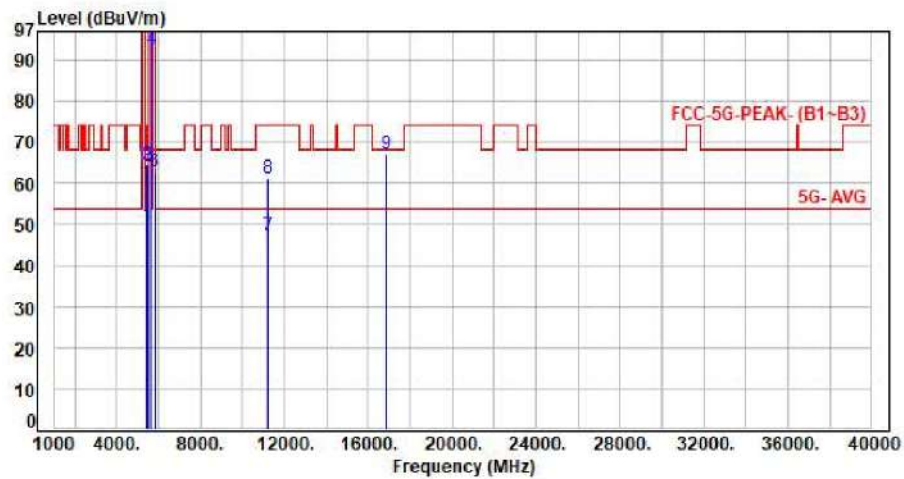
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	42.80	50.35	54.00	-3.65	Average	100	234	P
2	5460.00	7.55	55.32	62.87	74.00	-11.13	Peak	100	234	P
3	5470.00	7.58	56.01	63.59	68.20	-4.61	Peak	100	234	P
4	5610.00	7.51	82.44	89.95	200.00	-110.05	Average	100	234	P
5	5610.00	7.51	94.38	101.89	200.00	-98.11	Peak	100	234	P
6	5825.00	7.46	57.21	64.67	68.20	-3.53	Peak	100	234	P
7	11220.00	17.88	29.61	47.49	54.00	-6.51	Average	100	285	P
8	11220.00	17.88	41.52	59.40	74.00	-14.60	Peak	100	285	P
9	16830.00	22.58	41.49	64.07	68.20	-4.13	Peak	100	163	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax80 CH122 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



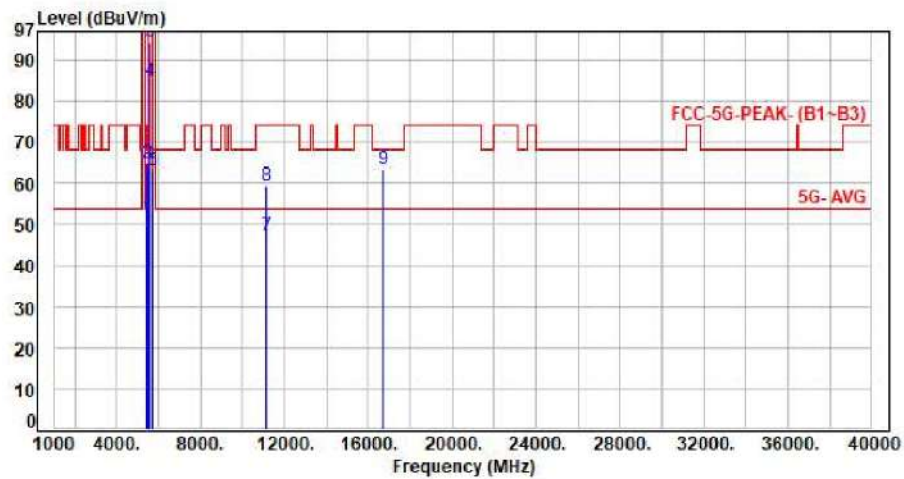
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	42.36	49.91	54.00	-4.09	Average	100	38	P
2	5460.00	7.55	57.15	64.70	74.00	-9.30	Peak	100	38	P
3	5470.00	7.58	56.77	64.35	68.20	-3.85	Peak	100	38	P
4	5610.00	7.51	84.98	92.49	200.00	-107.51	Average	100	38	P
5	5610.00	7.51	96.39	103.90	200.00	-96.10	Peak	100	38	P
6	5825.00	7.46	55.30	62.76	68.20	-5.44	Peak	100	38	P
7	11220.00	17.88	29.41	47.29	54.00	-6.71	Average	100	196	P
8	11220.00	17.88	43.52	61.40	74.00	-12.60	Peak	100	196	P
9	16830.00	22.58	44.41	66.99	68.20	-1.21	Peak	100	152	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax160 CH114 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



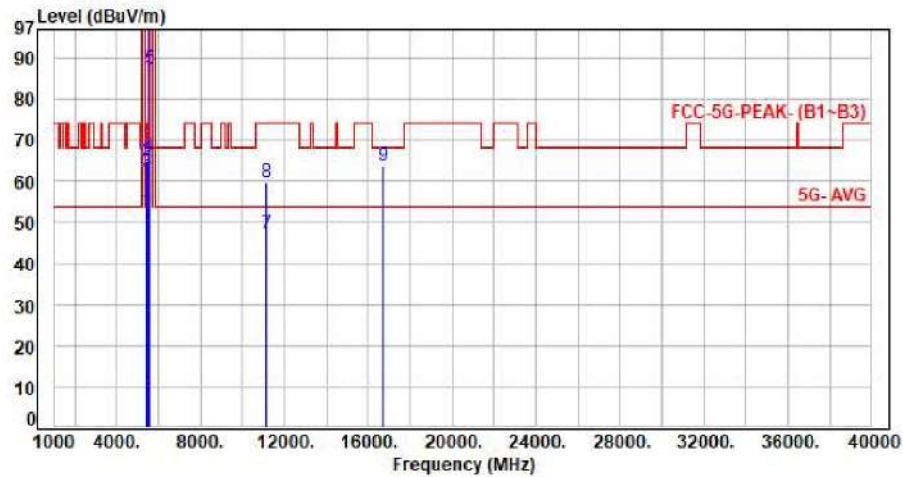
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	44.26	51.81	54.00	-2.19	Average	100	241	P
2	5460.00	7.55	57.39	64.94	74.00	-9.06	Peak	100	241	P
3	5470.00	7.58	57.27	64.85	68.20	-3.35	Peak	100	241	P
4	5570.00	7.56	77.10	84.66	200.00	-115.34	Average	100	241	P
5	5570.00	7.56	87.02	94.58	200.00	-105.42	Peak	100	241	P
6	5725.00	7.43	55.64	63.07	68.20	-5.13	Peak	100	241	P
7	11140.00	17.88	29.41	47.29	54.00	-6.71	Average	100	162	P
8	11140.00	17.88	41.59	59.47	74.00	-14.53	Peak	100	162	P
9	16710.00	22.17	41.36	63.53	68.20	-4.67	Peak	100	188	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax160 CH114 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



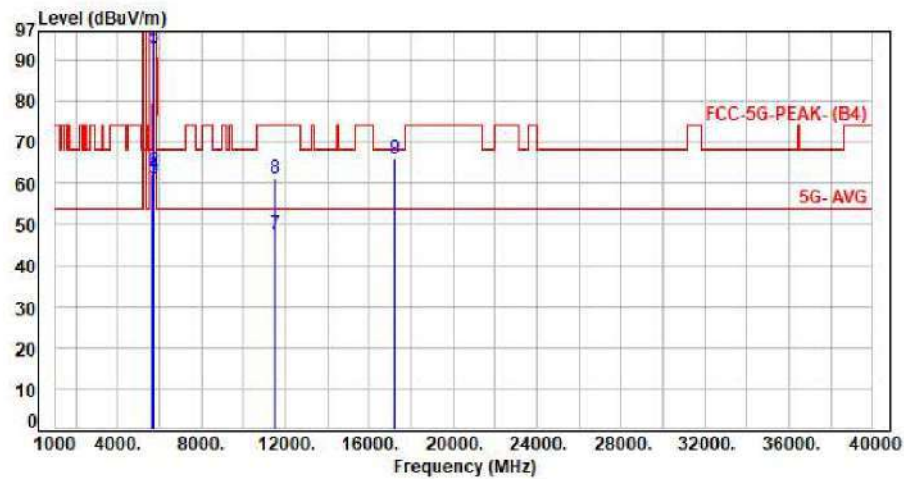
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	45.23	52.78	54.00	-1.22	Average	100	40	P
2	5460.00	7.55	57.28	64.83	74.00	-9.17	Peak	100	40	P
3	5460.00	7.55	54.91	62.46	74.00	-11.54	Peak	100	40	P
4	5470.00	7.58	58.45	66.03	68.20	-2.17	Peak	100	40	P
5	5570.00	7.56	79.74	87.30	200.00	-112.70	Average	100	40	P
6	5570.00	7.56	90.47	98.03	200.00	-101.97	Peak	100	40	P
7	11140.00	17.88	29.16	47.04	54.00	-6.96	Average	100	113	P
8	11140.00	17.88	41.85	59.73	74.00	-14.27	Peak	100	113	P
9	16710.00	22.17	41.62	63.79	68.20	-4.41	Peak	100	113	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax20 CH149 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



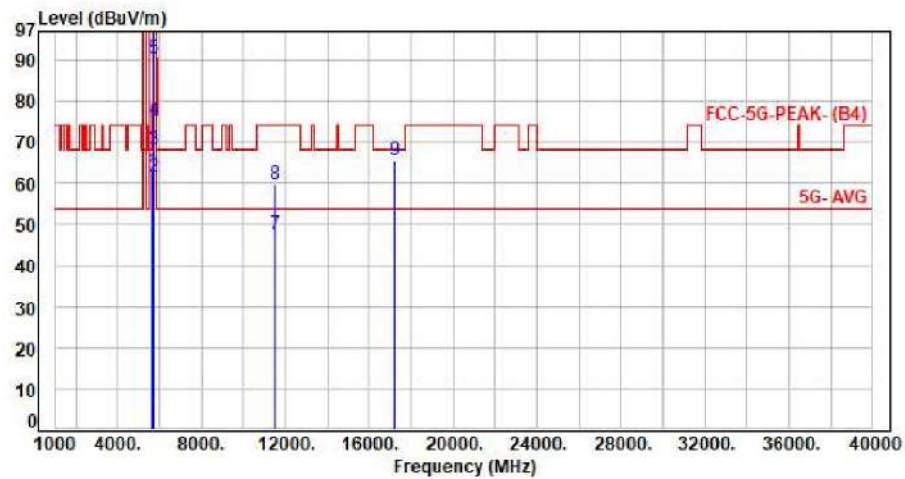
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.51	54.71	62.22	68.20	-5.98	Peak	107	3	P
2	5700.00	7.43	55.46	62.89	105.20	-42.31	Peak	107	3	P
3	5720.00	7.43	53.84	61.27	110.80	-49.53	Peak	107	3	P
4	5725.00	7.43	54.61	62.04	122.20	-60.16	Peak	107	3	P
5	5745.00	7.44	85.33	92.77	200.00	-107.23	Average	107	3	P
6	5745.00	7.44	99.65	107.09	200.00	-92.91	Peak	107	3	P
7	11490.00	18.33	29.42	47.75	54.00	-6.25	Average	100	131	P
8	11490.00	18.33	42.82	61.15	74.00	-12.85	Peak	100	131	P
9	17235.00	24.37	41.62	65.99	68.20	-2.21	Peak	100	277	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax20 CH149 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



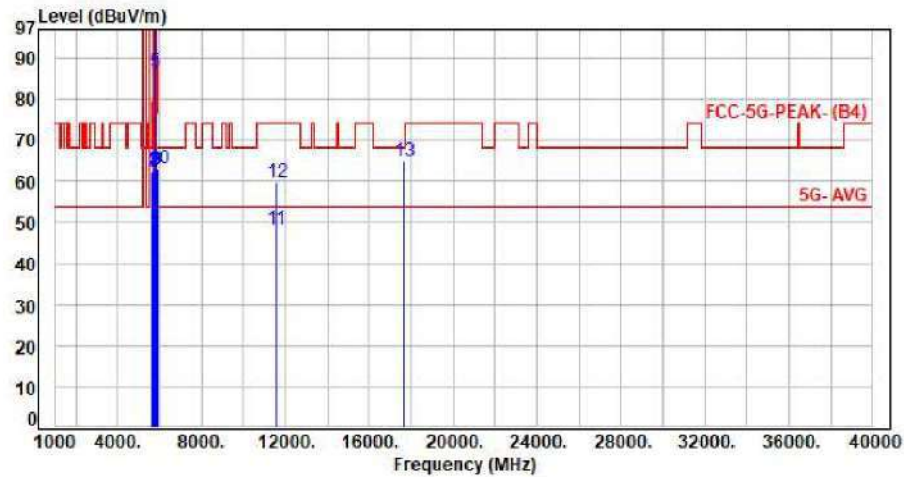
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.51	55.72	63.23	68.20	-4.97	Peak	100	33	P
2	5700.00	7.43	54.31	61.74	105.20	-43.46	Peak	100	33	P
3	5720.00	7.43	60.70	68.13	110.80	-42.67	Peak	100	33	P
4	5725.00	7.43	67.83	75.26	122.20	-46.94	Peak	100	33	P
5	5745.00	7.44	82.99	90.43	200.00	-109.57	Average	100	33	P
6	5745.00	7.44	95.33	102.77	200.00	-97.23	Peak	100	33	P
7	11490.00	18.33	29.43	47.76	54.00	-6.24	Average	100	195	P
8	11490.00	18.33	41.28	59.61	74.00	-14.39	Peak	100	195	P
9	17235.00	24.37	41.28	65.65	68.20	-2.55	Peak	100	194	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax20 CH157 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



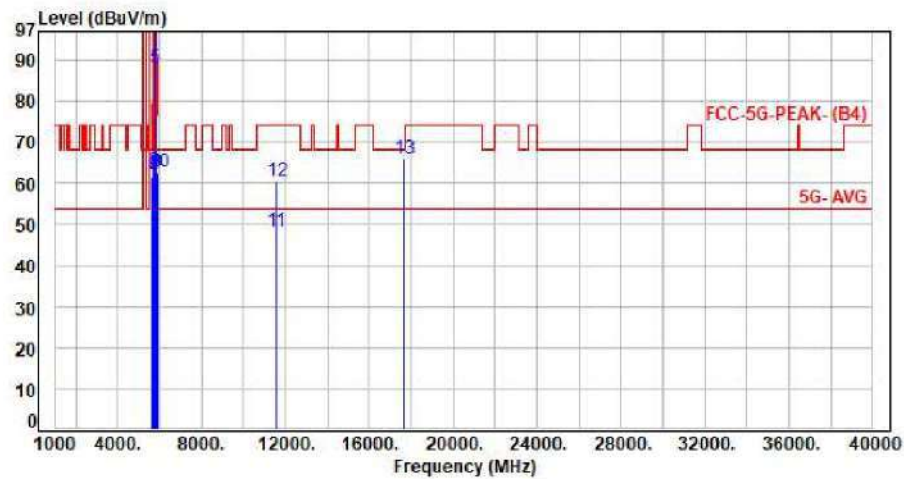
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.51	54.94	62.45	68.20	-5.75	Peak	100	356	P
2	5700.00	7.43	55.32	62.75	105.20	-42.45	Peak	100	356	P
3	5720.00	7.43	55.03	62.46	110.80	-48.34	Peak	100	356	P
4	5725.00	7.43	54.84	62.27	122.20	-59.93	Peak	100	356	P
5	5785.00	7.45	79.17	86.62	200.00	-113.38	Average	100	356	P
6	5785.00	7.45	91.50	98.95	200.00	-101.05	Peak	100	356	P
7	5850.00	7.47	54.96	62.43	122.20	-59.77	Peak	100	356	P
8	5855.00	7.49	55.24	62.73	110.80	-48.07	Peak	100	356	P
9	5875.00	7.57	55.16	62.73	105.20	-42.47	Peak	100	356	P
10	5925.00	7.73	55.29	63.02	68.20	-5.18	Peak	100	356	P
11	11570.00	18.58	29.87	48.45	54.00	-5.55	Average	100	136	P
12	11570.00	18.58	41.25	59.83	74.00	-14.17	Peak	100	136	P
13	17625.00	27.23	37.80	65.03	68.20	-3.17	Peak	100	123	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax20 CH157 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



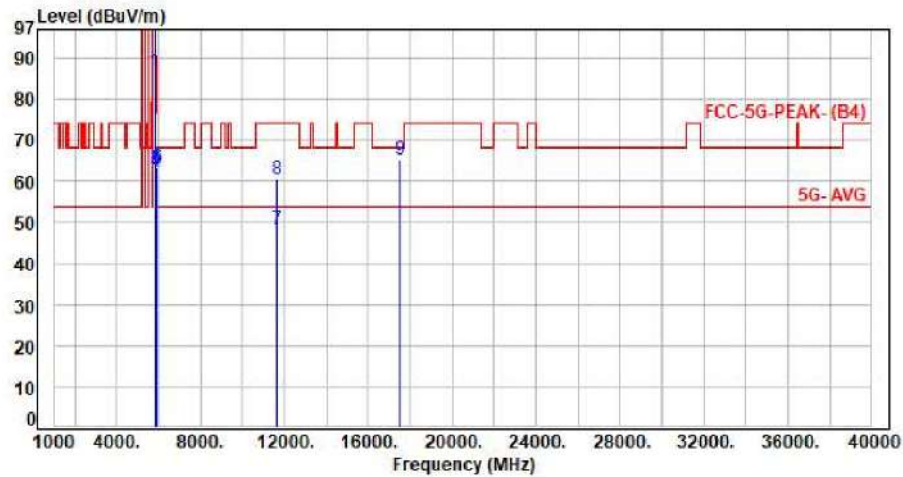
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.51	54.16	61.67	68.20	-6.53	Peak	100	44	P
2	5700.00	7.43	55.01	62.44	105.20	-42.76	Peak	100	44	P
3	5720.00	7.43	55.54	62.97	110.80	-47.83	Peak	100	44	P
4	5725.00	7.43	55.35	62.78	122.20	-59.42	Peak	100	44	P
5	5785.00	7.45	80.55	88.00	200.00	-112.00	Average	100	44	P
6	5785.00	7.45	92.23	99.68	200.00	-100.32	Peak	100	44	P
7	5850.00	7.47	55.00	62.47	122.20	-59.73	Peak	100	44	P
8	5855.00	7.49	55.07	62.56	110.80	-48.24	Peak	100	44	P
9	5875.00	7.57	55.17	62.74	105.20	-42.46	Peak	100	44	P
10	5925.00	7.73	55.02	62.75	68.20	-5.45	Peak	100	44	P
11	11570.00	18.58	29.74	48.32	54.00	-5.68	Average	100	321	P
12	11570.00	18.58	41.82	60.40	74.00	-13.60	Peak	100	321	P
13	17625.00	27.23	38.61	65.84	68.20	-2.36	Peak	100	135	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax20 CH165 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



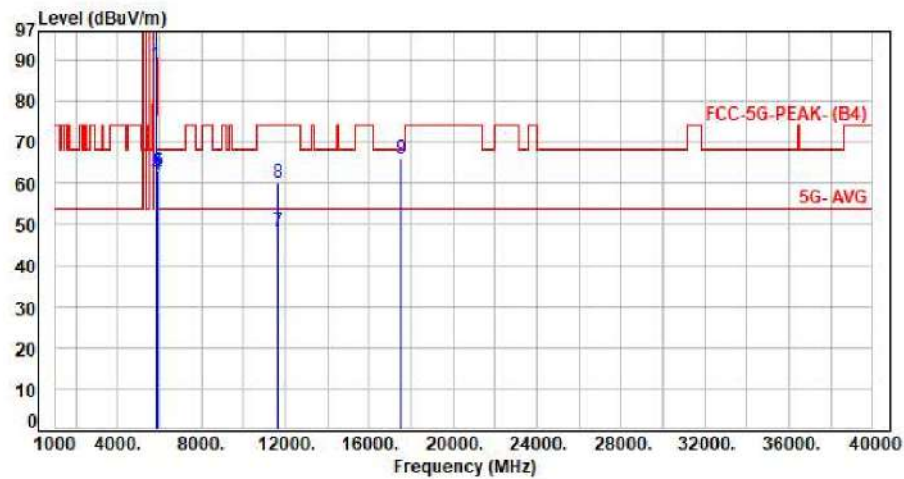
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	7.46	79.18	86.64	200.00	-113.36	Average	100	349	P
2	5825.00	7.46	92.09	99.55	200.00	-100.45	Peak	100	349	P
3	5850.00	7.47	55.66	63.13	122.20	-59.07	Peak	100	349	P
4	5855.00	7.49	54.96	62.45	110.80	-48.35	Peak	100	349	P
5	5875.00	7.57	55.08	62.65	105.20	-42.55	Peak	100	349	P
6	5925.00	7.73	55.62	63.35	68.20	-4.85	Peak	100	349	P
7	11650.00	18.67	29.47	48.14	54.00	-5.86	Average	100	199	P
8	11650.00	18.67	41.82	60.49	74.00	-13.51	Peak	100	199	P
9	17475.00	25.92	39.35	65.27	68.20	-2.93	Peak	100	294	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax20 CH165 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



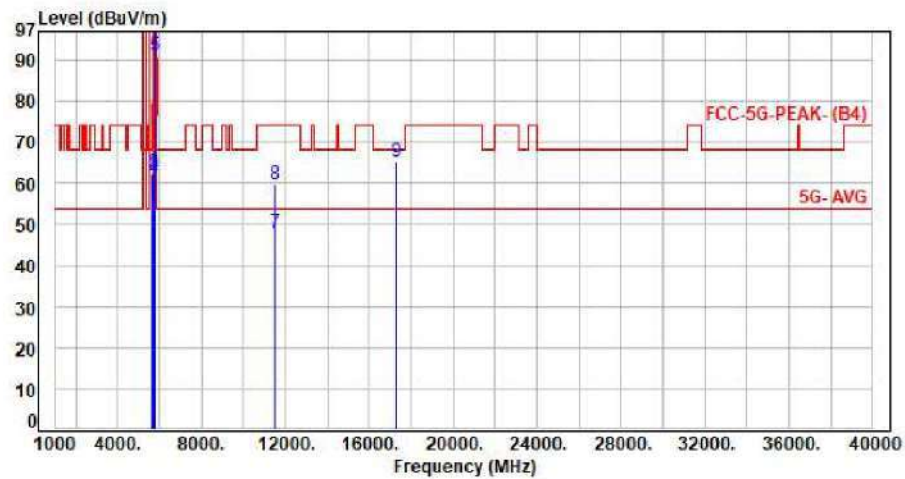
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5825.00	7.46	81.36	88.82	200.00	-111.18	Average	381	42	P
2	5825.00	7.46	94.49	101.95	200.00	-98.05	Peak	381	42	P
3	5850.00	7.47	55.06	62.53	122.20	-59.67	Peak	381	42	P
4	5855.00	7.49	54.66	62.15	110.80	-48.65	Peak	381	42	P
5	5875.00	7.57	54.97	62.54	105.20	-42.66	Peak	381	42	P
6	5925.00	7.73	55.31	63.04	68.20	-5.16	Peak	381	42	P
7	11650.00	18.67	29.64	48.31	54.00	-5.69	Average	100	247	P
8	11650.00	18.67	41.28	59.95	74.00	-14.05	Peak	100	247	P
9	17475.00	25.92	40.21	66.13	68.20	-2.07	Peak	100	255	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax40 CH151 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



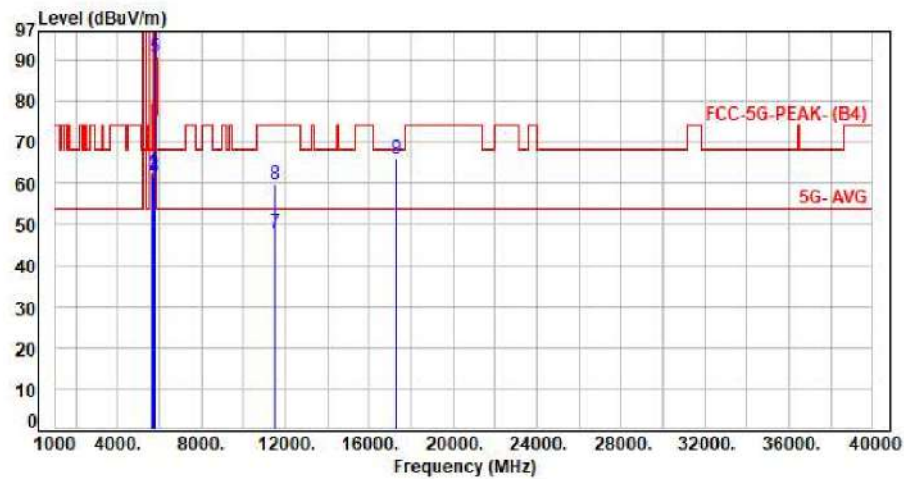
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.51	54.82	62.33	68.20	-5.87	Peak	100	3	P
2	5700.00	7.43	54.59	62.02	105.20	-43.18	Peak	100	3	P
3	5720.00	7.43	55.13	62.56	110.80	-48.24	Peak	100	3	P
4	5725.00	7.43	54.59	62.02	122.20	-60.18	Peak	100	3	P
5	5755.00	7.44	83.61	91.05	200.00	-108.95	Average	100	3	P
6	5755.00	7.44	96.63	104.07	200.00	-95.93	Peak	100	3	P
7	11510.00	18.39	29.65	48.04	54.00	-5.96	Average	100	229	P
8	11510.00	18.39	41.35	59.74	74.00	-14.26	Peak	100	229	P
9	17265.00	24.63	40.60	65.23	68.20	-2.97	Peak	100	123	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax40 CH151 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



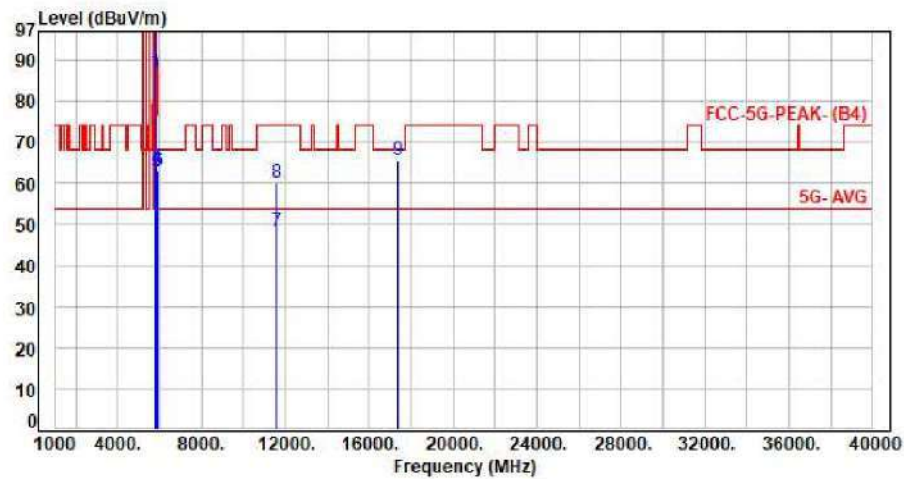
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.51	55.05	62.56	68.20	-5.64	Peak	100	340	P
2	5700.00	7.43	54.65	62.08	105.20	-43.12	Peak	100	340	P
3	5720.00	7.43	54.36	61.79	110.80	-49.01	Peak	100	340	P
4	5725.00	7.43	54.33	61.76	122.20	-60.44	Peak	100	340	P
5	5755.00	7.44	83.39	90.83	200.00	-109.17	Average	100	340	P
6	5755.00	7.44	94.94	102.38	200.00	-97.62	Peak	100	340	P
7	11510.00	18.39	29.42	47.81	54.00	-6.19	Average	100	182	P
8	11510.00	18.39	41.40	59.79	74.00	-14.21	Peak	100	182	P
9	17265.00	24.63	41.39	66.02	68.20	-2.18	Peak	100	195	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax40 CH159 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



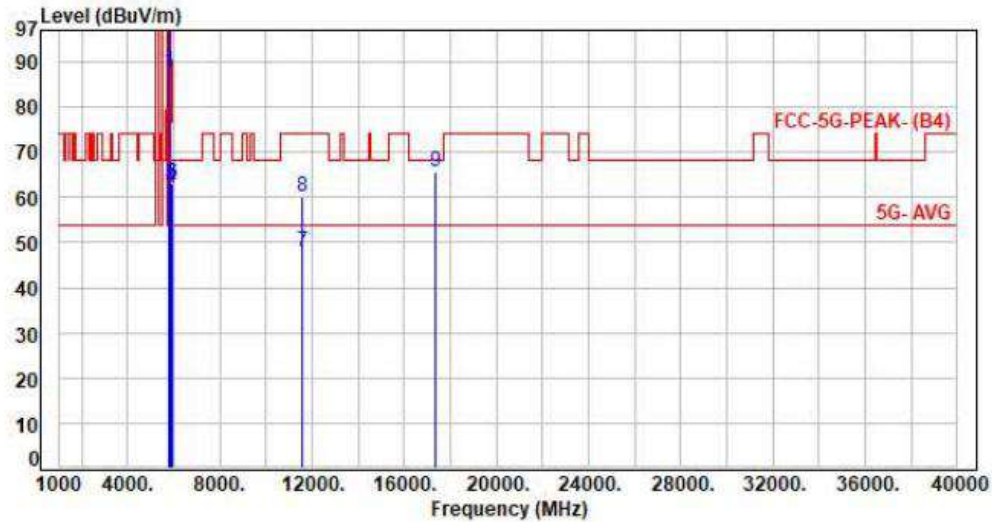
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5795.00	7.45	79.42	86.87	200.00	-113.13	Average	100	184	P
2	5795.00	7.45	90.88	98.33	200.00	-101.67	Peak	100	184	P
3	5850.00	7.47	55.32	62.79	122.20	-59.41	Peak	100	184	P
4	5855.00	7.49	56.38	63.87	110.80	-46.93	Peak	100	184	P
5	5875.00	7.57	55.25	62.82	105.20	-42.38	Peak	100	184	P
6	5925.00	7.73	55.18	62.91	68.20	-5.29	Peak	100	184	P
7	11590.00	18.62	29.64	48.26	54.00	-5.74	Average	100	177	P
8	11590.00	18.62	41.59	60.21	74.00	-13.79	Peak	100	177	P
9	17385.00	25.34	40.31	65.65	68.20	-2.55	Peak	100	158	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax40 CH159 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5795.00	7.45	80.51	87.96	200.00	-112.04	Average	100	306	P
2	5795.00	7.45	92.41	99.86	200.00	-100.14	Peak	100	306	P
3	5850.00	7.47	55.57	63.04	122.20	-59.16	Peak	100	306	P
4	5855.00	7.49	54.63	62.12	110.80	-48.68	Peak	100	306	P
5	5875.00	7.57	55.46	63.03	105.20	-42.17	Peak	100	306	P
6	5925.00	7.73	55.46	63.19	68.20	-5.01	Peak	100	306	P
7	11590.00	18.62	29.47	48.09	54.00	-5.91	Average	100	197	P
8	11590.00	18.62	41.39	60.01	74.00	-13.99	Peak	100	197	P
9	17385.00	25.34	40.22	65.56	68.20	-2.64	Peak	100	166	P

Note: Level=Reading+Factor

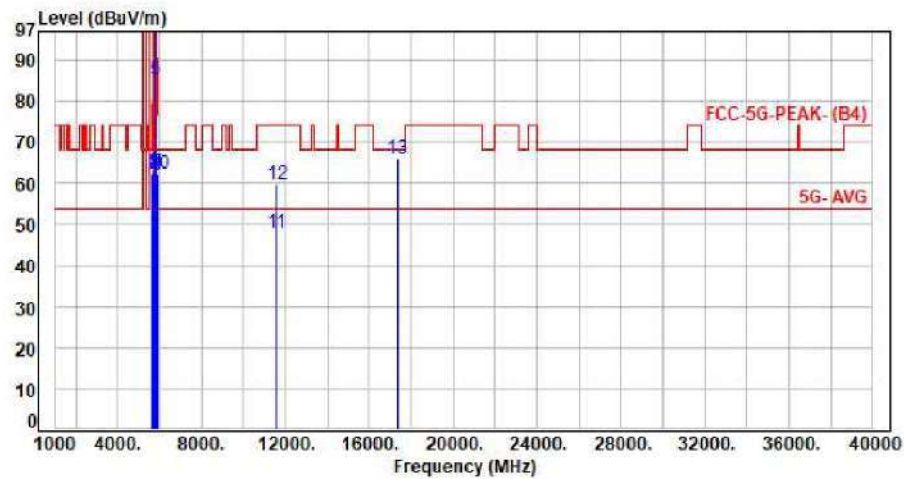
Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax80 CH155 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



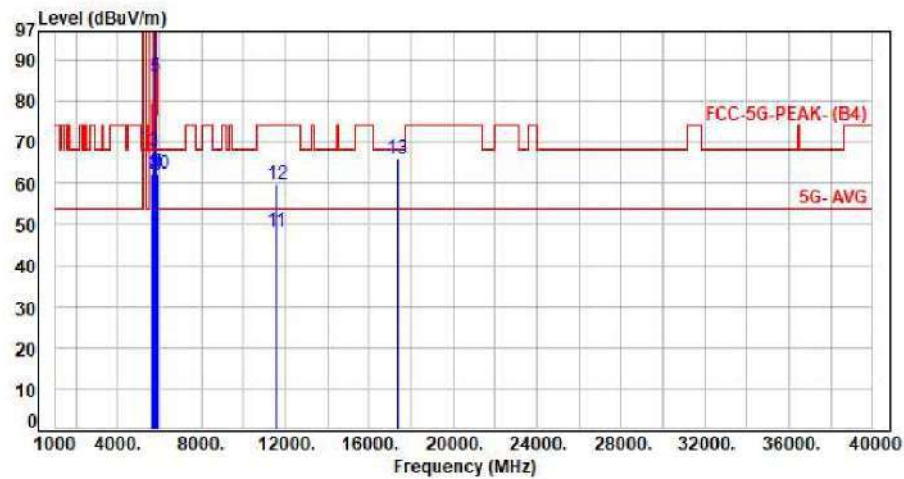
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.51	54.92	62.43	68.20	-5.77	Peak	100	185	P
2	5700.00	7.43	54.74	62.17	105.20	-43.03	Peak	100	185	P
3	5720.00	7.43	55.26	62.69	110.80	-48.11	Peak	100	185	P
4	5725.00	7.43	55.29	62.72	122.20	-59.48	Peak	100	185	P
5	5775.00	7.45	77.70	85.15	200.00	-114.85	Average	100	185	P
6	5775.00	7.45	90.17	97.62	200.00	-102.38	Peak	100	185	P
7	5850.00	7.47	55.36	62.83	122.20	-59.37	Peak	100	185	P
8	5855.00	7.49	54.35	61.84	110.80	-48.96	Peak	100	185	P
9	5875.00	7.57	55.02	62.59	105.20	-42.61	Peak	100	185	P
10	5925.00	7.73	54.69	62.42	68.20	-5.78	Peak	100	185	P
11	11550.00	18.54	29.48	48.02	54.00	-5.98	Average	100	195	P
12	11550.00	18.54	41.05	59.59	74.00	-14.41	Peak	100	195	P
13	17325.00	25.10	40.81	65.91	68.20	-2.29	Peak	100	204	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax80 CH155 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



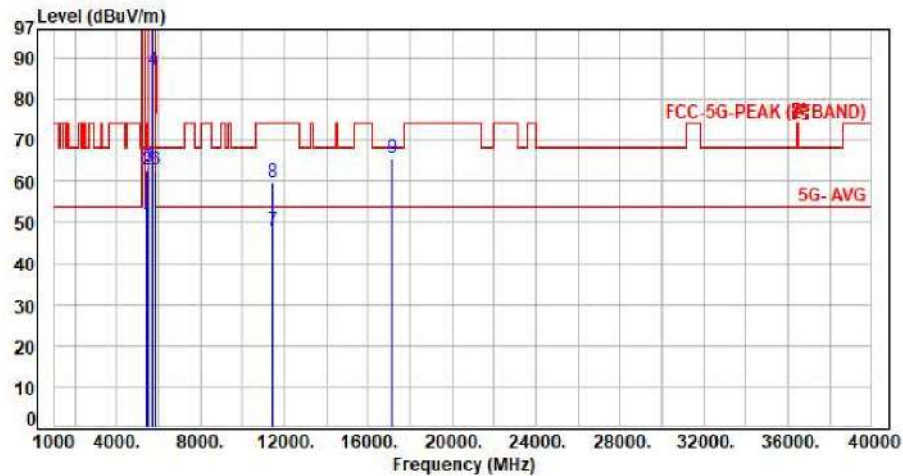
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	7.51	54.69	62.20	68.20	-6.00	Peak	100	300	P
2	5700.00	7.43	54.98	62.41	105.20	-42.79	Peak	100	300	P
3	5720.00	7.43	60.33	67.76	110.80	-43.04	Peak	100	300	P
4	5725.00	7.43	54.99	62.42	122.20	-59.78	Peak	100	300	P
5	5775.00	7.45	78.62	86.07	200.00	-113.93	Average	100	300	P
6	5775.00	7.45	90.38	97.83	200.00	-102.17	Peak	100	300	P
7	5850.00	7.47	55.32	62.79	122.20	-59.41	Peak	100	300	P
8	5855.00	7.49	54.52	62.01	110.80	-48.79	Peak	100	300	P
9	5875.00	7.57	55.23	62.80	105.20	-42.40	Peak	100	300	P
10	5925.00	7.73	54.56	62.29	68.20	-5.91	Peak	100	300	P
11	11550.00	18.54	29.75	48.29	54.00	-5.71	Average	100	213	P
12	11550.00	18.54	41.10	59.64	74.00	-14.36	Peak	100	213	P
13	17325.00	25.10	40.85	65.95	68.20	-2.25	Peak	100	196	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax20 CH144 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



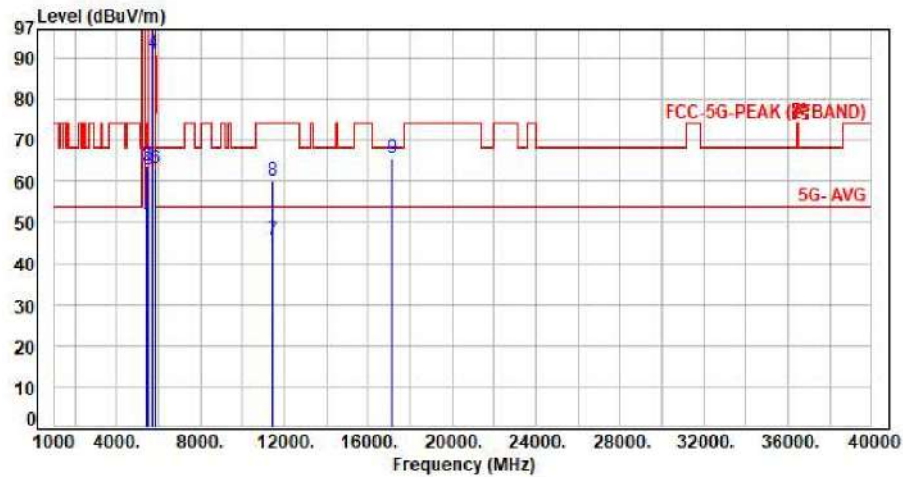
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	42.08	49.63	54.00	-4.37	Average	100	345	P
2	5460.00	7.55	55.16	62.71	74.00	-11.29	Peak	100	345	P
3	5470.00	7.58	55.99	63.57	68.20	-4.63	Peak	100	345	P
4	5720.00	7.43	79.56	86.99	200.00	-113.01	Average	100	345	P
5	5720.00	7.43	92.86	100.29	200.00	-99.71	Peak	100	345	P
6	5850.00	7.47	55.12	62.59	68.20	-5.61	Peak	100	345	P
7	11440.00	18.20	29.70	47.90	54.00	-6.10	Average	100	352	P
8	11440.00	18.20	41.51	59.71	74.00	-14.29	Peak	100	352	P
9	17160.00	24.13	41.67	65.80	68.20	-2.40	Peak	100	110	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax20 CH144 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



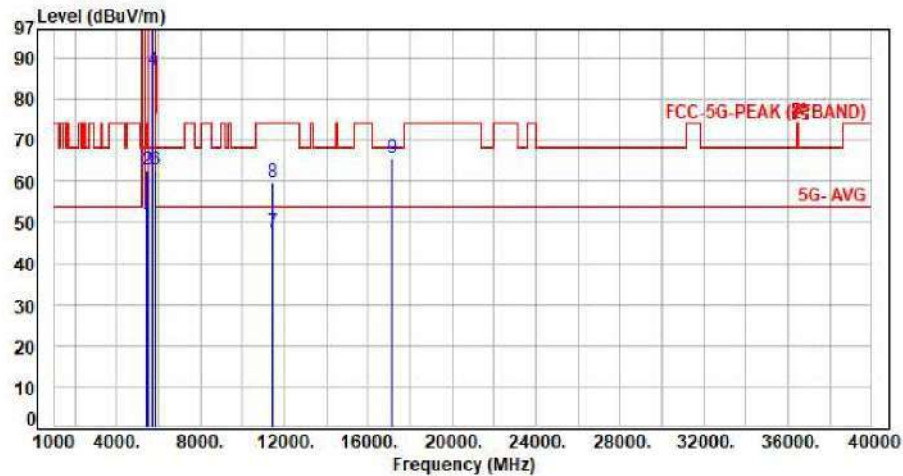
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	42.25	49.80	54.00	-4.20	Average	100	43	P
2	5460.00	7.55	56.16	63.71	74.00	-10.29	Peak	100	43	P
3	5470.00	7.58	55.19	62.77	68.20	-5.43	Peak	100	43	P
4	5720.00	7.43	83.83	91.26	200.00	-108.74	Average	100	43	P
5	5720.00	7.43	95.94	103.37	200.00	-96.63	Peak	100	43	P
6	5850.00	7.47	55.54	63.01	68.20	-5.19	Peak	100	43	P
7	11440.00	18.20	27.63	45.83	54.00	-8.17	Average	100	287	P
8	11440.00	18.20	41.81	60.01	74.00	-13.99	Peak	100	287	P
9	17160.00	24.13	41.40	65.53	68.20	-2.67	Peak	100	352	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax40 CH142 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



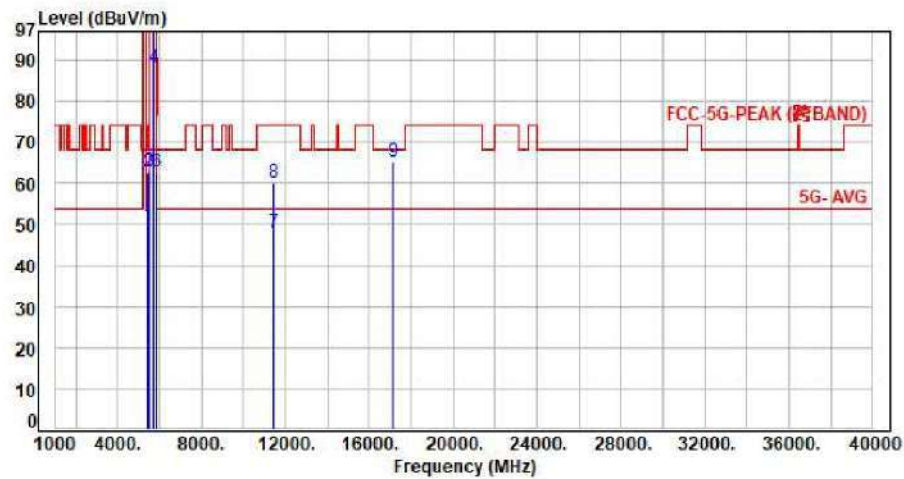
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	42.17	49.72	54.00	-4.28	Average	100	3	P
2	5460.00	7.55	55.25	62.80	74.00	-11.20	Peak	100	3	P
3	5470.00	7.58	55.02	62.60	68.20	-5.60	Peak	100	3	P
4	5710.00	7.43	79.48	86.91	200.00	-113.09	Average	100	3	P
5	5710.00	7.43	91.27	98.70	200.00	-101.30	Peak	100	3	P
6	5850.00	7.47	55.23	62.70	68.20	-5.50	Peak	100	3	P
7	11420.00	18.14	29.47	47.61	54.00	-6.39	Average	100	173	P
8	11420.00	18.14	41.73	59.87	74.00	-14.13	Peak	100	173	P
9	17130.00	24.09	41.38	65.47	68.20	-2.73	Peak	100	188	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax40 CH142 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



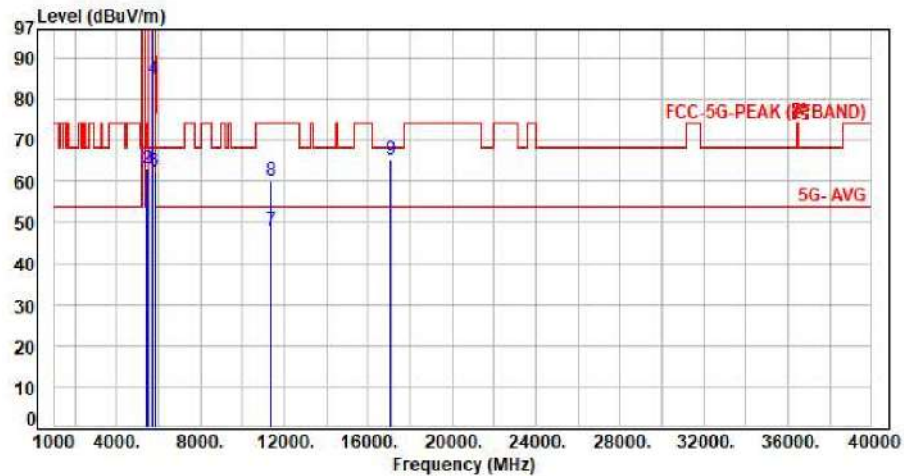
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	42.13	49.68	54.00	-4.32	Average	100	306	P
2	5460.00	7.55	55.30	62.85	74.00	-11.15	Peak	100	306	P
3	5470.00	7.58	55.43	63.01	68.20	-5.19	Peak	100	306	P
4	5710.00	7.43	80.55	87.98	200.00	-112.02	Average	100	306	P
5	5710.00	7.43	91.84	99.27	200.00	-100.73	Peak	100	306	P
6	5850.00	7.47	55.40	62.87	68.20	-5.33	Peak	100	306	P
7	11420.00	18.14	29.76	47.90	54.00	-6.10	Average	100	185	P
8	11420.00	18.14	41.83	59.97	74.00	-14.03	Peak	100	185	P
9	17130.00	24.09	41.37	65.46	68.20	-2.74	Peak	100	229	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax80 CH138 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Vertical



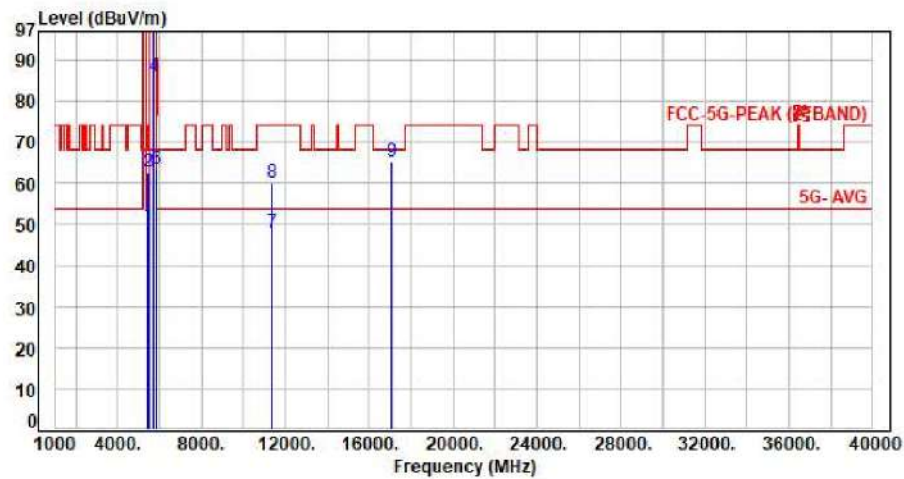
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	43.34	50.89	54.00	-3.11	Average	100	185	P
2	5460.00	7.55	55.38	62.93	74.00	-11.07	Peak	100	185	P
3	5470.00	7.58	55.64	63.22	68.20	-4.98	Peak	100	185	P
4	5690.00	7.44	77.53	84.97	200.00	-115.03	Average	100	185	P
5	5690.00	7.44	89.06	96.50	200.00	-103.50	Peak	100	185	P
6	5825.00	7.46	54.95	62.41	68.20	-5.79	Peak	100	185	P
7	11380.00	18.06	29.72	47.78	54.00	-6.22	Average	100	294	P
8	11380.00	18.06	41.95	60.01	74.00	-13.99	Peak	100	294	P
9	17070.00	23.85	41.33	65.18	68.20	-3.02	Peak	100	347	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



MIMO

Test Mode : 2TX 11ax80 CH138 NSS1 MCS0
Voltage : From Adapter(AC120V/60Hz)
Pol : Horizontal



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5460.00	7.55	42.23	49.78	54.00	-4.22	Average	100	41	P
2	5460.00	7.55	55.19	62.74	74.00	-11.26	Peak	100	41	P
3	5470.00	7.58	55.27	62.85	68.20	-5.35	Peak	100	41	P
4	5690.00	7.44	78.57	86.01	200.00	-113.99	Average	100	41	P
5	5690.00	7.44	90.28	97.72	200.00	-102.28	Peak	100	41	P
6	5850.00	7.47	55.93	63.40	68.20	-4.80	Peak	100	41	P
7	11380.00	18.06	29.73	47.79	54.00	-6.21	Average	100	123	P
8	11380.00	18.06	41.95	60.01	74.00	-13.99	Peak	100	123	P
9	17070.00	23.85	41.33	65.18	68.20	-3.02	Peak	100	225	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



6.11.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. On Time, Duty Cycle and Measurement methods

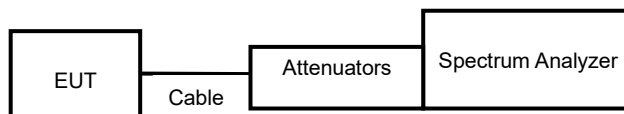
7.1. Test Limit

None; for reporting purposes only.

7.2. Test Procedure

KDB 789033 Zero-Span Spectrum Analyzer Method.

7.3. Test Setup Layout





7.4. Test Result and Data

For 24070407-TRFCC04-SISO

Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
802.11a,6M	2.10	2.11	99.22%

MIMO

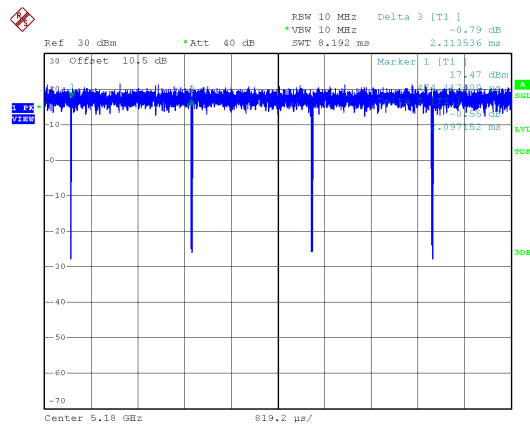
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
802.11ax HE20	5.36	5.38	99.67%
802.11ax HE40	4.82	4.84	99.64%
802.11ax HE80	2.56	2.57	99.40%
802.11ax HE160	2.21	2.23	99.31%

7.5. Measurement Methods

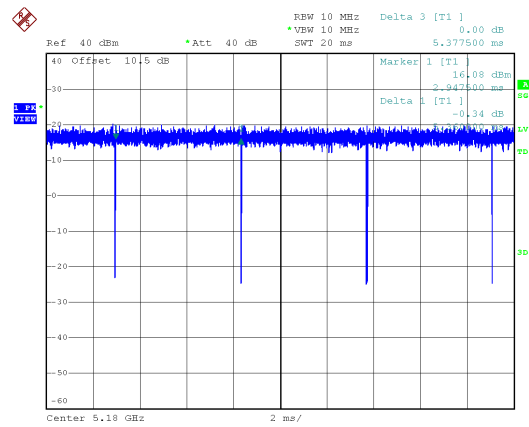
26 dB and 6dB Emission BW	KDB 789033 D02 v02r01, Section C
99% Occupied BW	KDB 789033 D02 v02r01, Section D
Conducted Output Power	KDB 789033 D02 v02r01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v02r01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02 v02r01, Sections G and H
Unwanted emissions in non-restricted bands	KDB 789033 D02 v02r01, Sections G and H



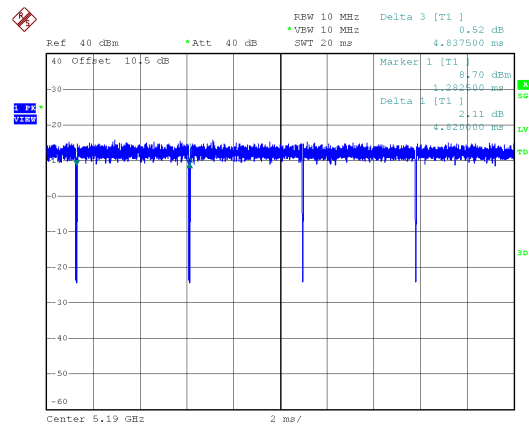
For 24070407-TRFCC04
SISO
Modulation Type: 802.11a



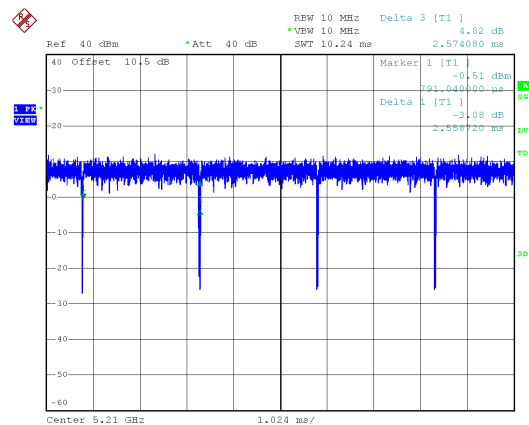
MIMO
Modulation Type: 802.11ax20



Modulation Type: 802.11ax40



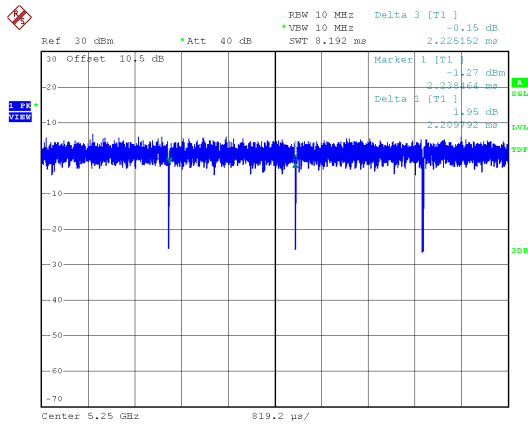
Modulation Type: 802.11ax80





MIMO

Modulation Type: 802.11ax160





8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

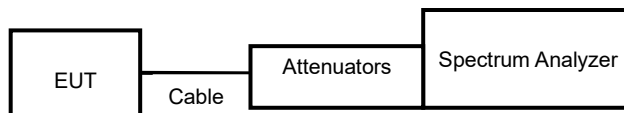
FCC §15.407

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

8.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100KHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

8.3. Test Setup Layout



**8.4. Test Result and Data**

For 24070407-TRFCC04

SISO ANT A

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)
			ANT A	
11a	149	5745	15.12	0.50
11a	157	5785	15.09	0.50
11a	165	5825	15.12	0.50

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)
			ANT A
11a	149	5745	16.47
11a	157	5785	16.41
11a	165	5825	16.47

UNII Emission Bandwidth Result (Extends across 5725MHz band)

Modulation Type	Data Rate / MCS	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
			ANT A	ANT A
11a	6 Mbps	5720	3.13	3.75

**MIMO**

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)
			ANT A	ANT B	
11ax HE20	149	5745	17.04	17.01	0.50
11ax HE20	157	5785	15.69	18.30	0.50
11ax HE20	165	5825	17.37	17.52	0.50
11ax HE40	151	5755	35.28	35.52	0.50
11ax HE40	159	5795	36.00	35.16	0.50
11ax HE80	155	5775	71.40	71.28	0.50

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
11ax HE20	149	5745	18.93	18.93
11ax HE20	157	5785	18.93	18.93
11ax HE20	165	5825	18.96	18.93
11ax HE40	151	5755	37.86	37.86
11ax HE40	159	5795	37.86	37.80
11ax HE80	155	5775	76.92	76.80

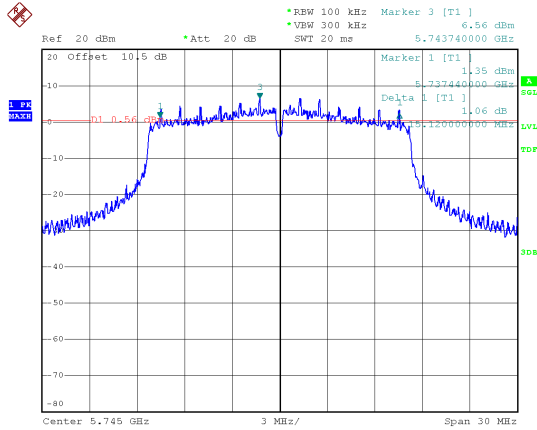
UNII Emission Bandwidth Result (Extends across 5725MHz band)

Modulation Type	Data Rate / MCS	Frequency (MHz)	6dB Bandwidth (MHz)		99% Bandwidth (MHz)	
			ANT A	ANT B	ANT A	ANT B
11ax HE20	NSS1-MCS0	5720	4.38	4.38	4.75	4.75
11ax HE40	NSS1-MCS0	5710	4.00	4.13	4.88	4.75
11ax HE80	NSS1-MCS0	5690	4.13	4.00	5.38	5.50

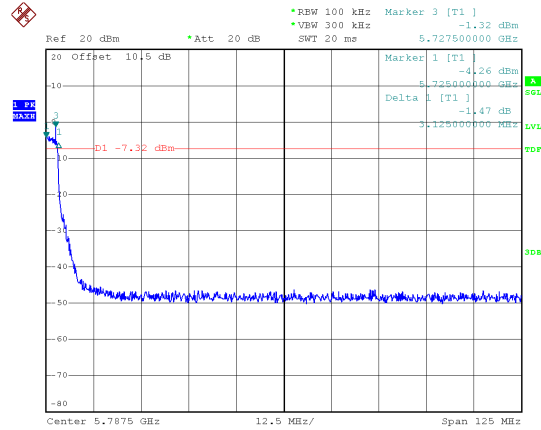


6dB Bandwidth
SISO ANT A
Modulation Type: 802.11a

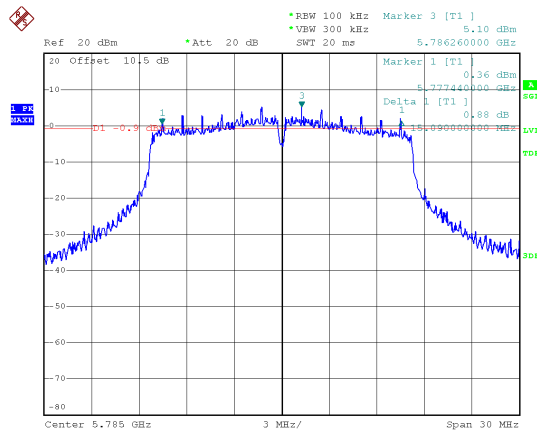
CH149



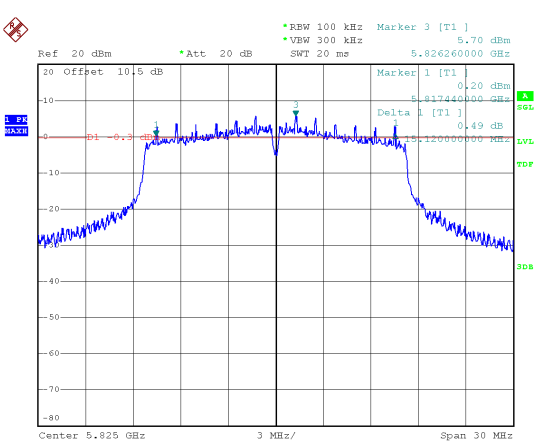
SISO ANT A
Modulation Type: 802.11a
Extends across 5725MHz band
CH144



CH157

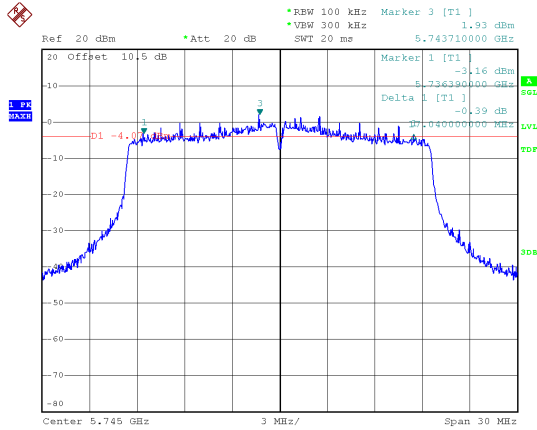


CH165

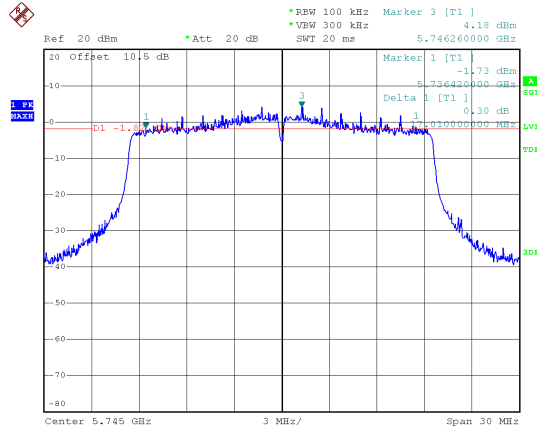




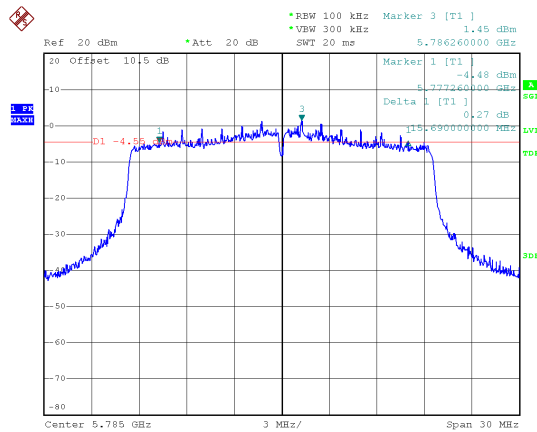
6dB Bandwidth
MIMO
ANT A
Modulation Type: 802.11ax20
CH149



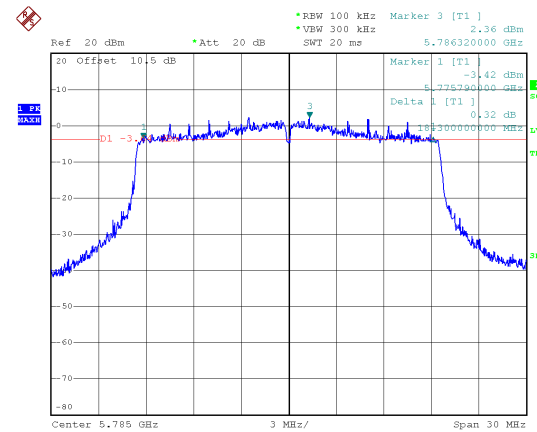
ANT B
Modulation Type: 802.11ax20
CH149



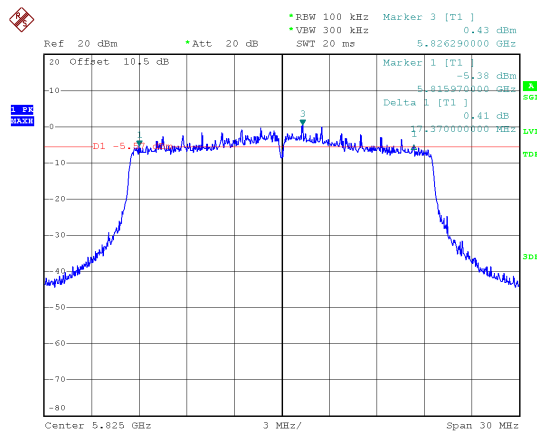
CH157



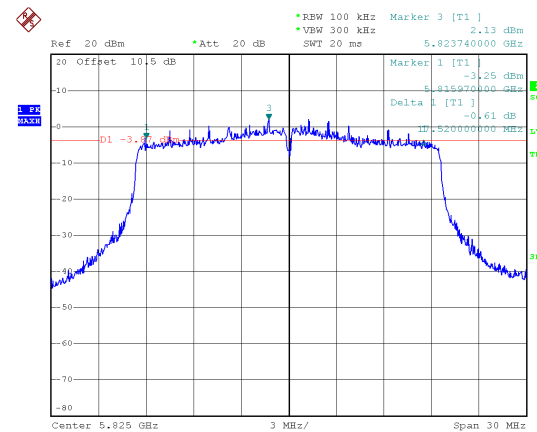
CH157

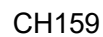
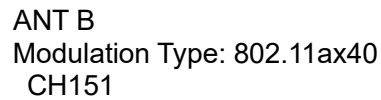


CH165



CH165







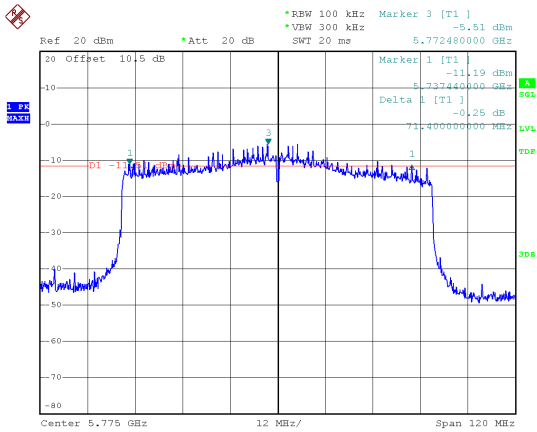
6dB Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax80

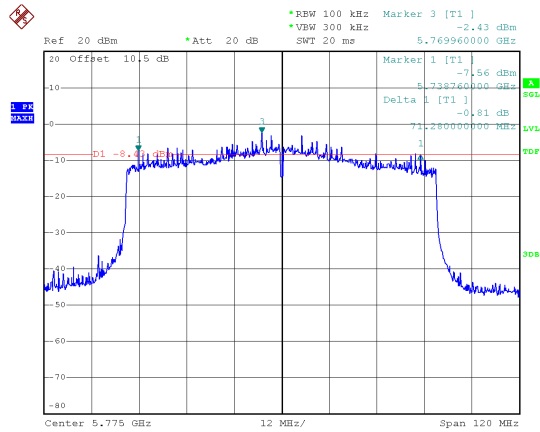
CH155



ANT B

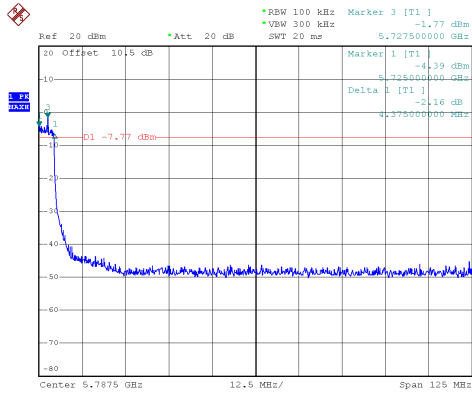
Modulation Type: 802.11ax80

CH155

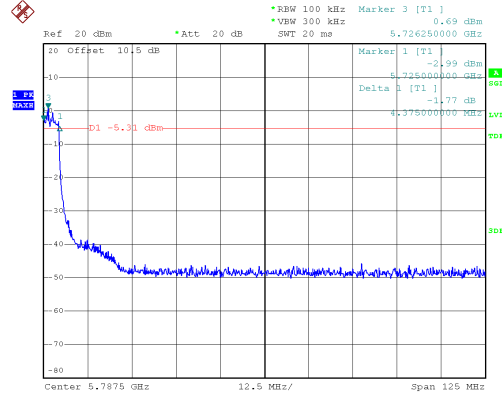




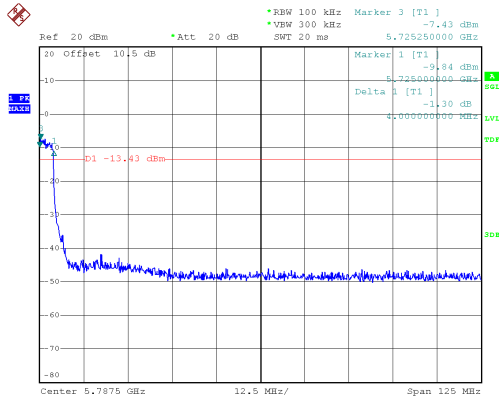
6dB Bandwidth MIMO
Extends across 5725MHz band
Modulation Type:802.11ax20
ANT A
CH144



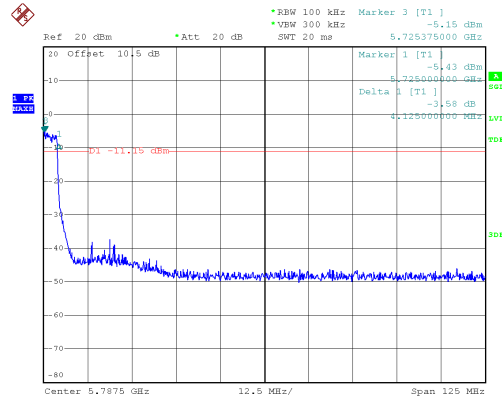
Modulation Type:802.11ax20
ANT B
CH144



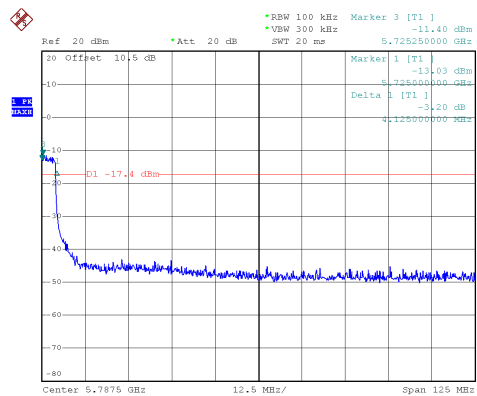
Modulation Type:802.11ax40
ANT A
CH142



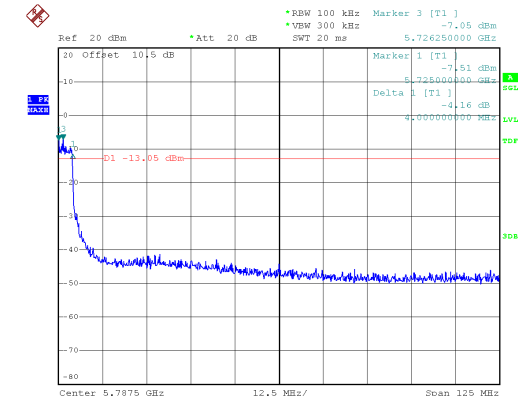
Modulation Type:802.11ax40
ANT B
CH142



ANT A
Modulation Type: 802.11ax80
CH138

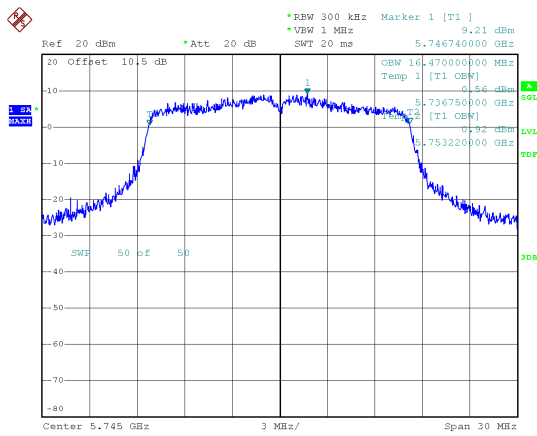


ANT B
Modulation Type: 802.11ax80
CH138

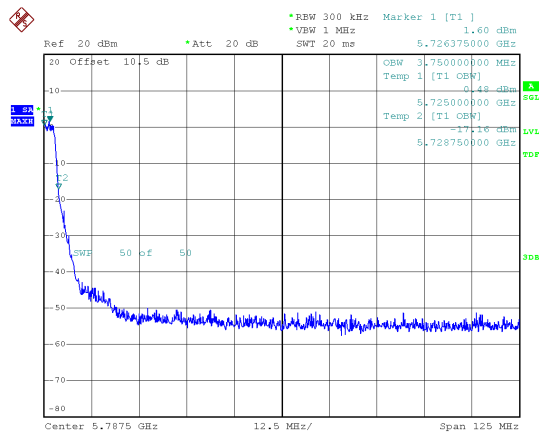




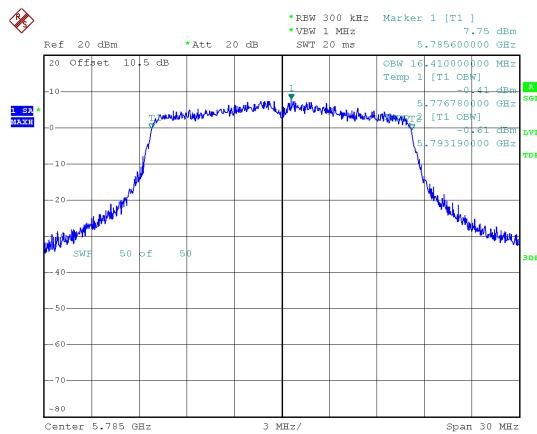
99% Occupied Bandwidth
SISO ANT A
Modulation Type: 802.11a
CH149



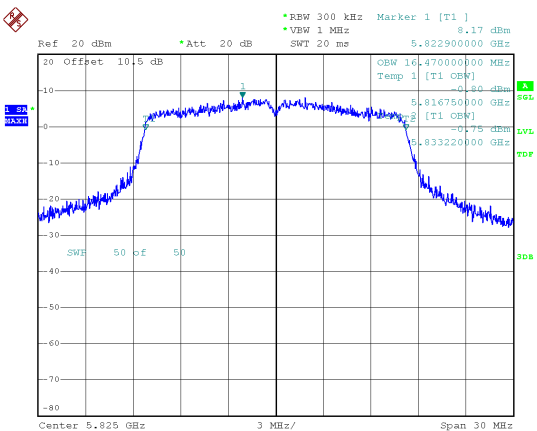
Extends across 5725MHz band
Modulation Type: 802.11a
CH144



CH157



CH165





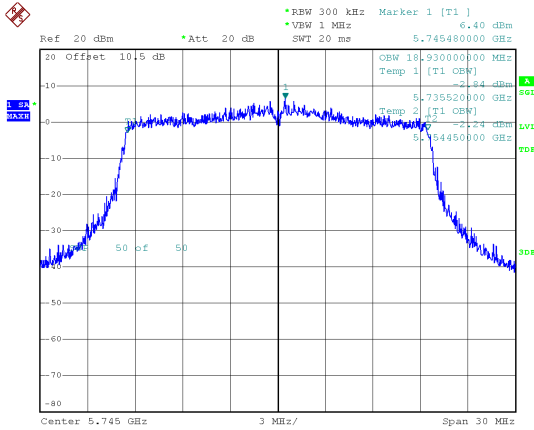
99% Occupied Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax20

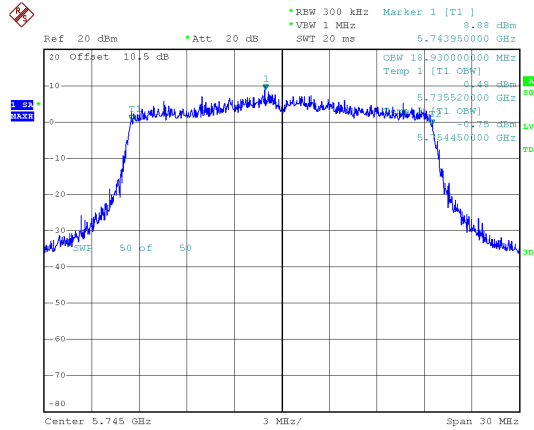
CH149



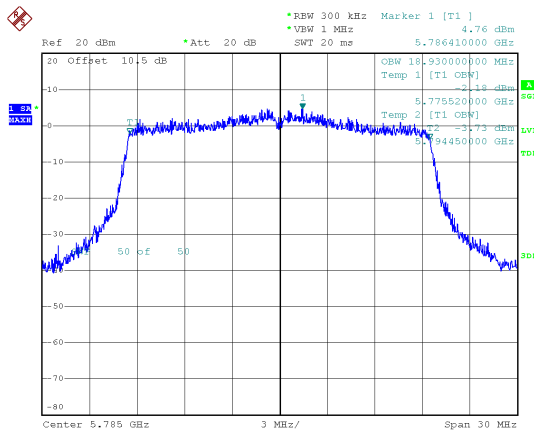
ANT B

Modulation Type: 802.11ax20

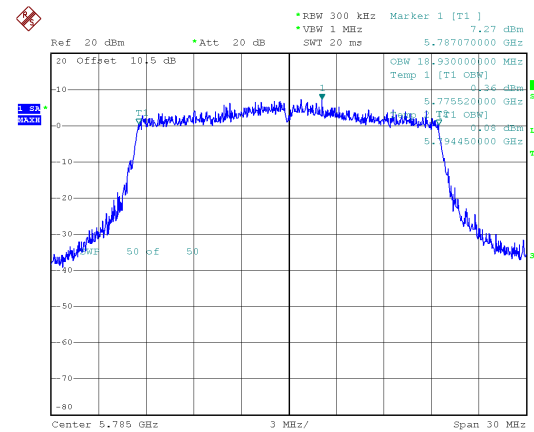
CH149



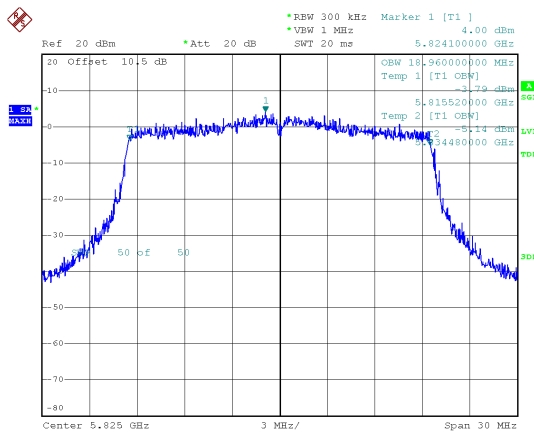
CH157



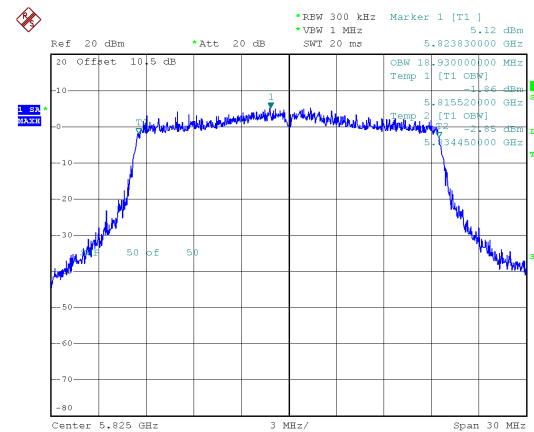
CH157



CH165



CH165





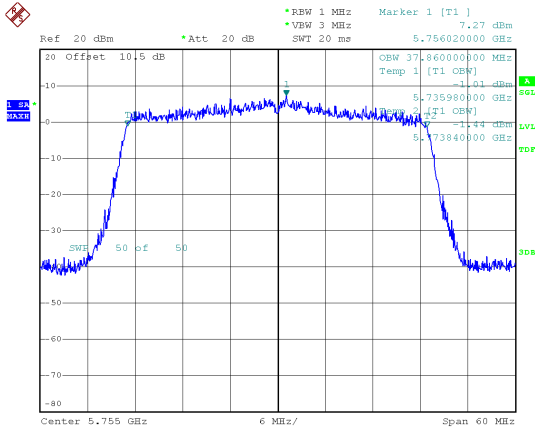
99% Occupied Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax40

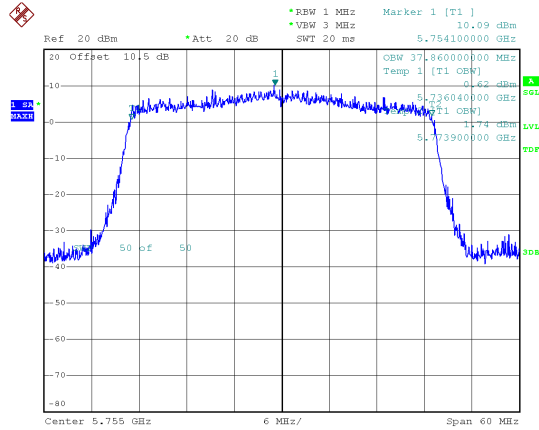
CH151



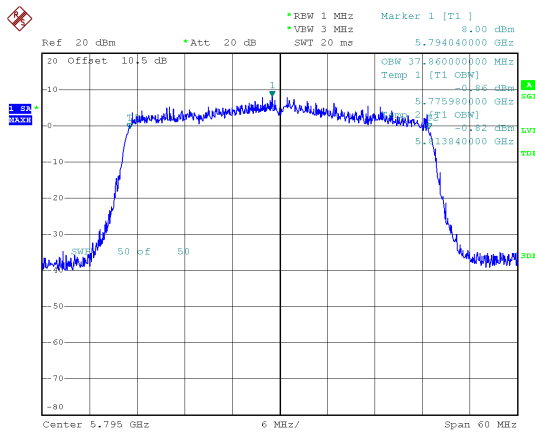
ANT B

Modulation Type: 802.11ax40

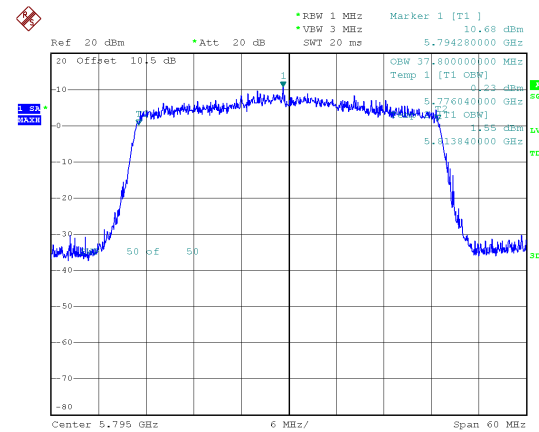
CH151



CH159



CH159





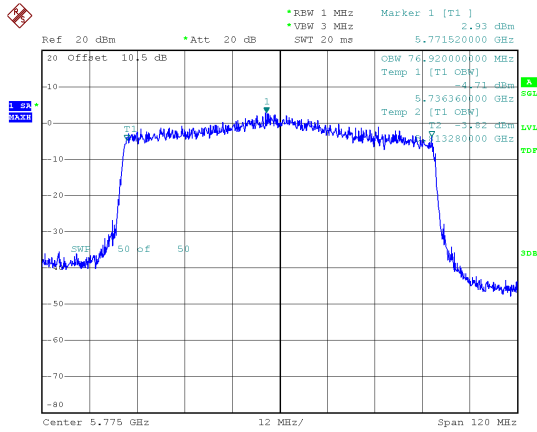
99% Occupied Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax80

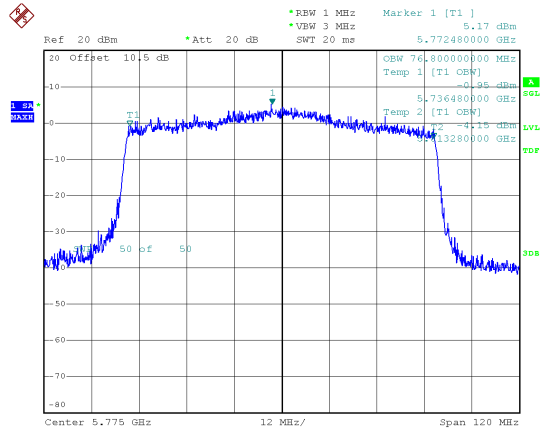
CH155



ANT B

Modulation Type: 802.11ax80

CH155





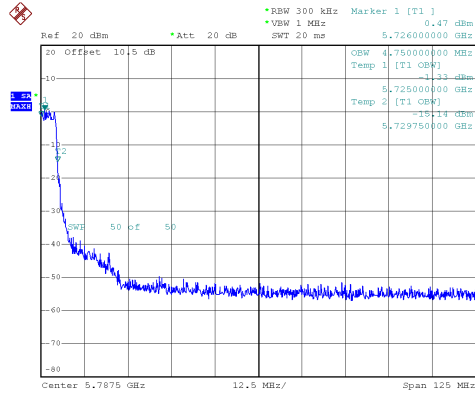
99% Occupied Bandwidth

Extends across 5725MHz Band, Straddle Channel

Modulation Type: 802. 11ax20

ANT A

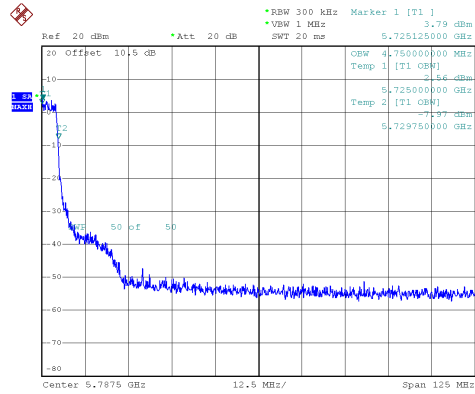
CH144



Modulation Type: 802. 11ax20

ANT B

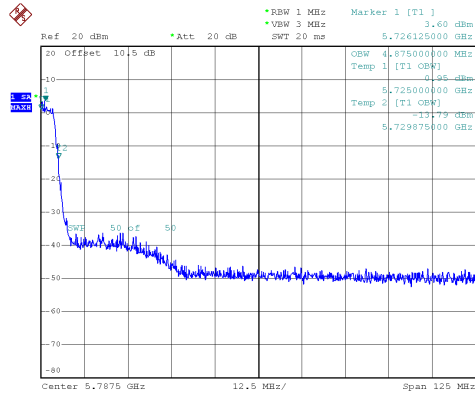
CH144



Modulation Type: 802.11ax40

ANT A

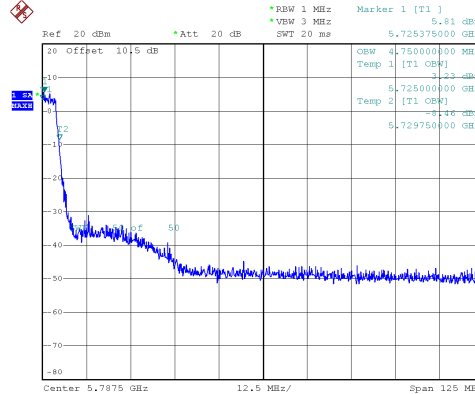
CH142



Modulation Type: 802.11ax40

ANT B

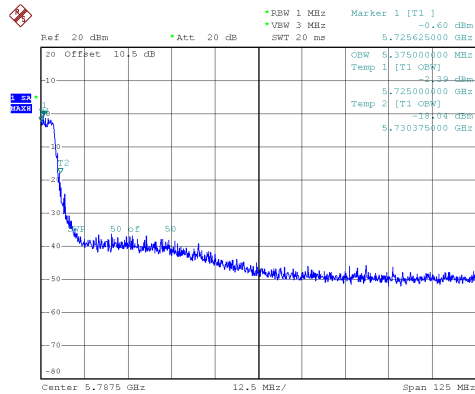
CH142



Modulation Type: 802.11ax80

ANT A

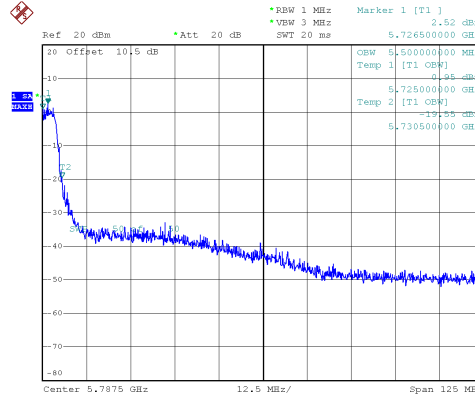
CH138



Modulation Type: 802.11ax80

ANT B

CH138





9. 26dB Bandwidth & 99% Occupied Bandwidth

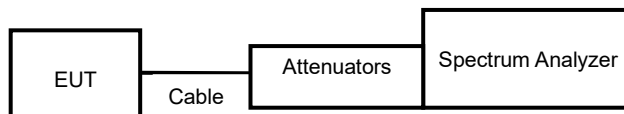
9.1. Test Limit

None; for reporting purposes only.

9.2. Test Procedure

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW = approximately 1% of the emission bandwidth, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

9.3. Test Setup Layout



**9.4. Test Result and Data**

For 24070407-TRFCC04

SISO ANT A

In the 5.2G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	36	5180	19.55
11a	40	5200	19.45
11a	48	5240	21.2

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	36	5180	16.38
11a	40	5200	16.41
11a	48	5240	16.53

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	52	5260	19.5
11a	60	5300	19.25
11a	64	5320	19.6

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	52	5260	16.38
11a	60	5300	16.41
11a	64	5320	16.41



In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)
			ANT A
11a	100	5500	19.5
11a	120	5600	19.6
11a	140	5700	19.5

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)
			ANT A
11a	100	5500	16.38
11a	120	5600	16.41
11a	140	5700	16.38

UNII Emission Bandwidth Result (Within 5470-5725MHz band)

Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
			ANT A	ANT A
11a	6 Mbps	5720	14.54	13.26

**MIMO****In the 5.2G Band**

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11ax HE20	36	5180	21.05	20.95
11ax HE20	40	5200	21.05	20.95
11ax HE20	48	5240	20.85	21.15
11ax HE40	38	5190	41.6	41.7
11ax HE40	46	5230	41.8	41.8
11ax HE80	42	5210	82.4	82.08

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11ax HE20	36	5180	18.96	18.93
11ax HE20	40	5200	18.93	18.93
11ax HE20	48	5240	18.96	18.93
11ax HE40	38	5190	37.86	37.74
11ax HE40	46	5230	37.80	37.74
11ax HE80	42	5210	76.68	76.80

In the 5.3G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11ax HE20	52	5260	20.9	21.05
11ax HE20	60	5300	21.1	21
11ax HE20	64	5320	20.95	20.9
11ax HE40	54	5270	41.9	41.8
11ax HE40	62	5310	41.8	41.8
11ax HE80	58	5290	82.08	82.08

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth(MHz)	
			ANT A	ANT B
11ax HE20	52	5260	18.93	18.93
11ax HE20	60	5300	18.96	18.90
11ax HE20	64	5320	18.93	18.93
11ax HE40	54	5270	37.74	37.80
11ax HE40	62	5310	37.86	37.86
11ax HE80	58	5290	76.68	76.80



In the 5.5G Band

Mode	Channel	Frequency (MHz)	26dB Bandwidth(MHz)	
			ANT A	ANT B
11ax HE20	100	5500	20.9	21.05
11ax HE20	120	5600	21.1	21.05
11ax HE20	140	5700	21	20.75
11ax HE40	102	5510	41.6	41.8
11ax HE40	118	5590	42	41.9
11ax HE40	134	5670	41.8	42
11ax HE80	106	5530	82.08	82.4
11ax HE80	122	5610	82.08	82.24
11ax HE160	114	5570	167.04	166.32

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
11ax HE20	100	5500	18.93	18.93
11ax HE20	120	5600	18.93	18.96
11ax HE20	140	5700	18.93	18.93
11ax HE40	102	5510	37.80	37.86
11ax HE40	118	5590	37.92	37.80
11ax HE40	134	5670	37.86	37.86
11ax HE80	106	5530	76.80	76.68
11ax HE80	122	5610	76.92	76.68
11ax HE160	114	5570	155.52	155.76

**UNII Emission Bandwidth Result (Within 5470-5725MHz band)**

Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth (MHz)		99% Bandwidth (MHz)	
			ANT A	ANT B	ANT A	ANT B
11ax HE20	NSS1-MCS0	5720	15.30	15.30	14.54	14.54
11ax HE40	NSS1-MCS0	5710	35.70	35.70	33.92	33.66
11ax HE80	NSS1-MCS0	5690	75.99	75.99	72.93	73.19

UNII Emission Bandwidth Result (Within 5150-5250MHz band)

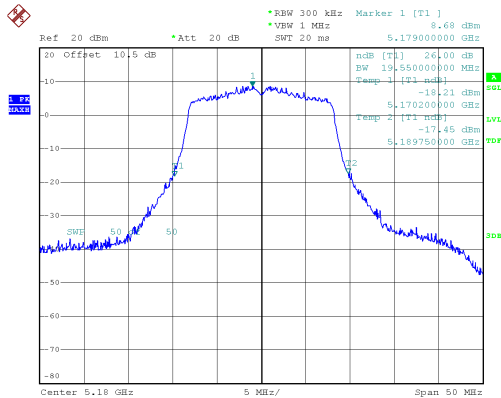
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth (MHz)		99% Bandwidth (MHz)	
			ANT A	ANT B	ANT A	ANT B
11ax HE160	NSS1-MCS0	5250	84.00	83.80	78.40	78.50

UNII Emission Bandwidth Result (Extends across 5250MHz band)

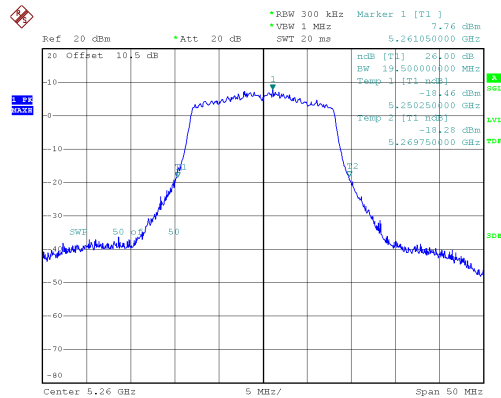
Modulation Type	Data Rate / MCS	Frequency (MHz)	26dB Bandwidth (MHz)		99% Bandwidth (MHz)	
			ANT A	ANT B	ANT A	ANT B
11ax HE160	NSS1-MCS0	5250	83.00	83.20	78.50	78.50



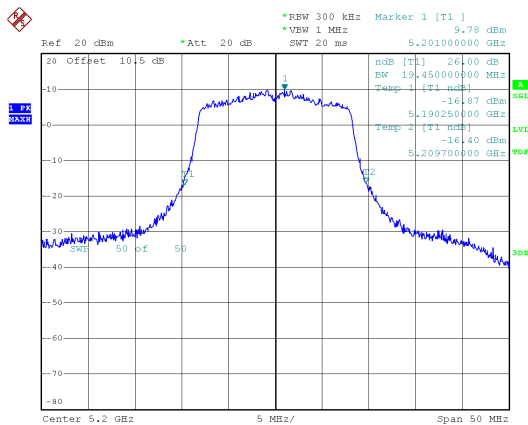
26dB Bandwidth
SISO ANT A
Modulation Type: 802.11a
CH36



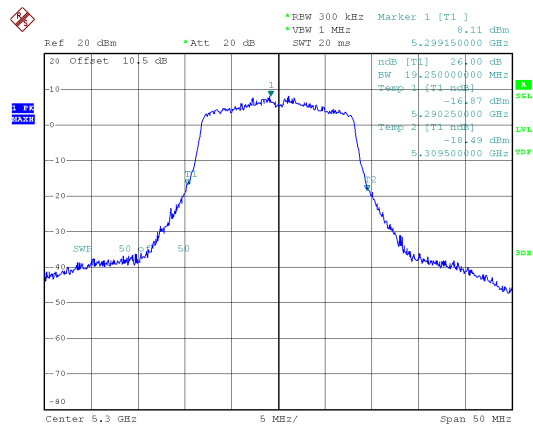
CH52



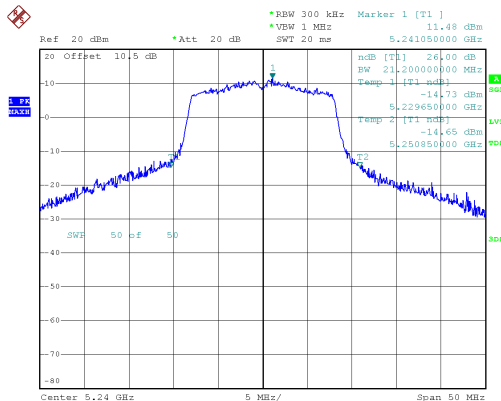
CH40



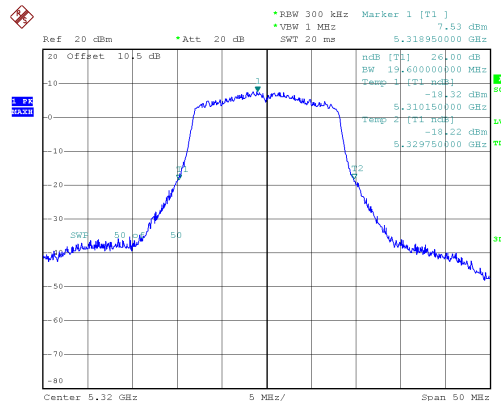
CH60



CH48

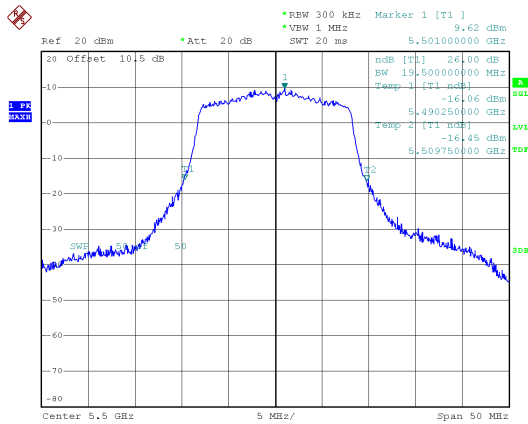


CH64

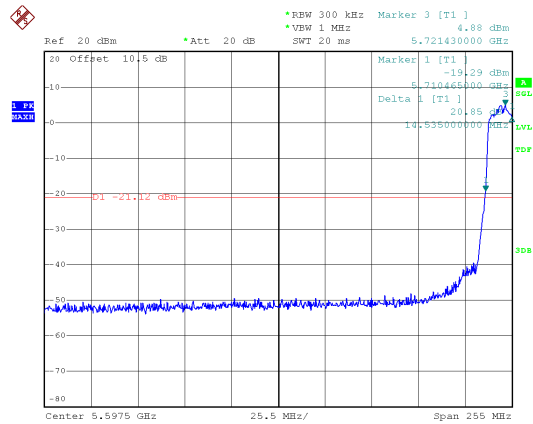




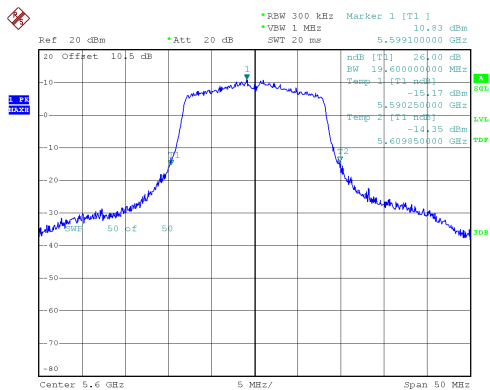
26dB Bandwidth
SISO ANT A
Modulation Type: 802.11a
CH100



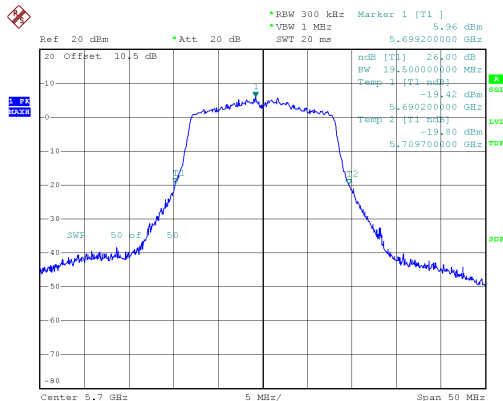
Within 5470-5725MHz band
Modulation Type: 802.11a
CH144



CH120



CH140





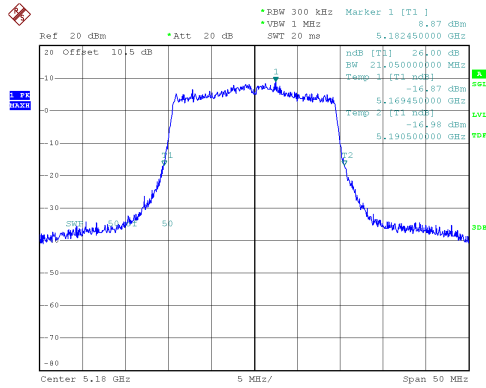
26dB Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax20

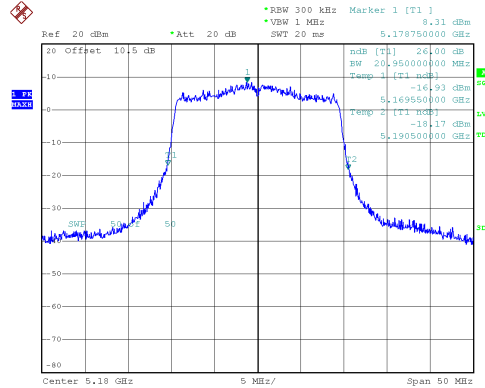
CH36



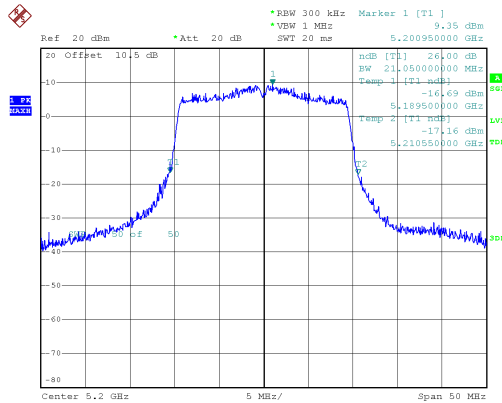
ANT B

Modulation Type: 802.11ax20

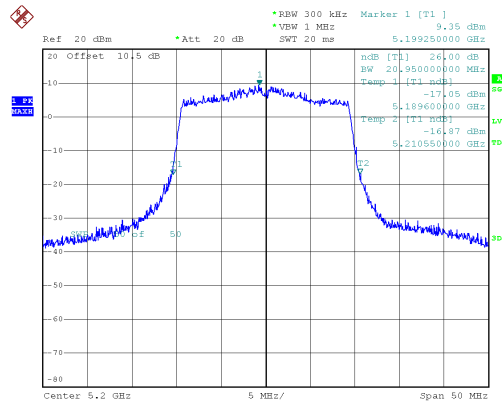
CH36



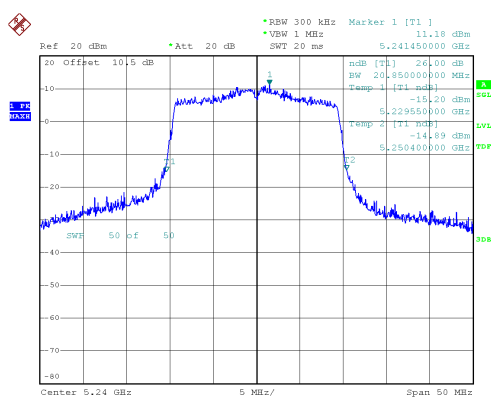
CH40



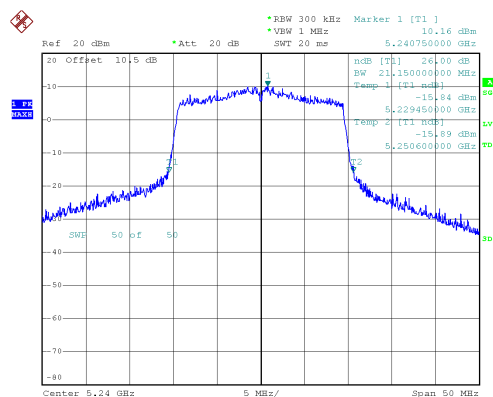
CH40



CH48

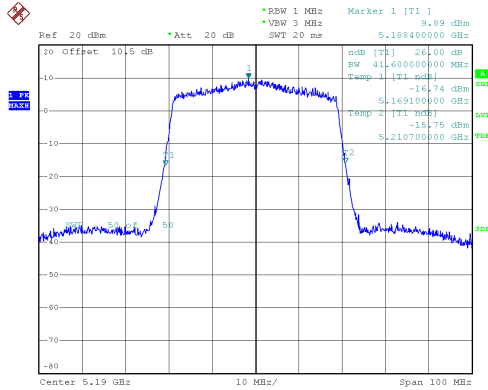


CH48

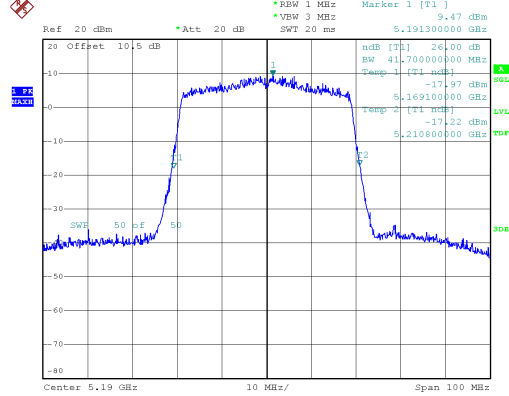




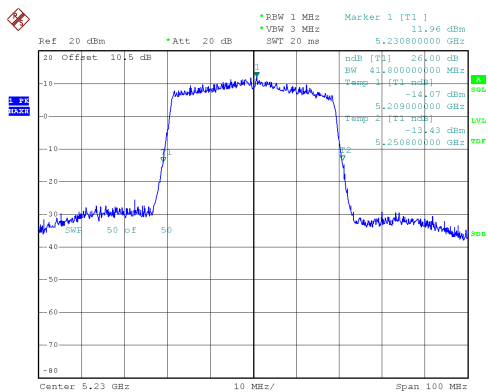
26dB Bandwidth
MIMO
ANT A
Modulation Type: 802.11ax40
CH38



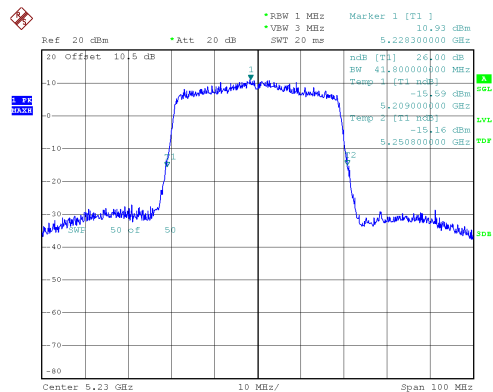
ANT B
Modulation Type: 802.11ax40
CH38



CH46

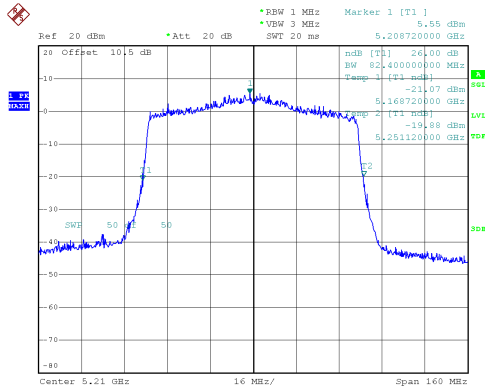


CH46

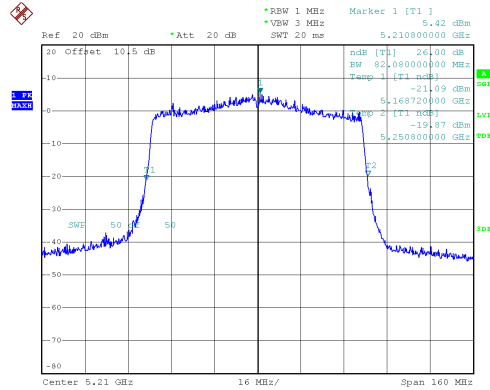




26dB Bandwidth
MIMO
ANT A
Modulation Type: 802.11ax80
CH42



ANT B
Modulation Type: 802.11ax80
CH42





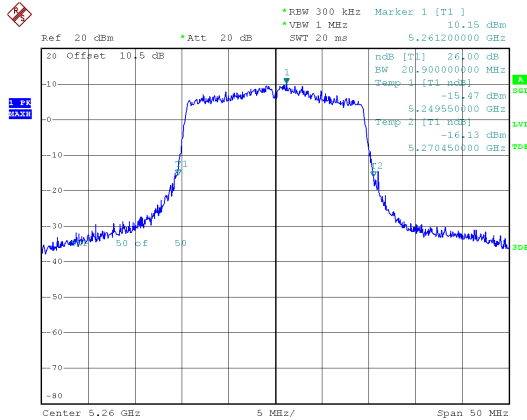
26dB Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax20

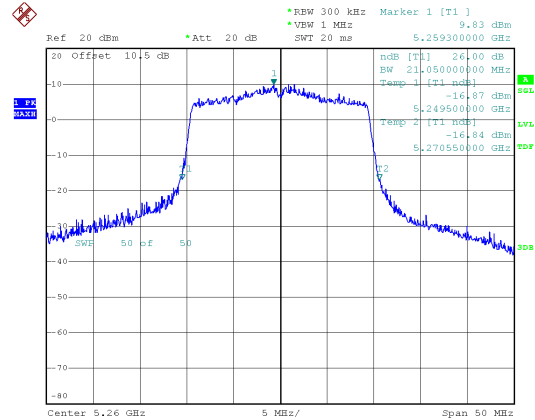
CH52



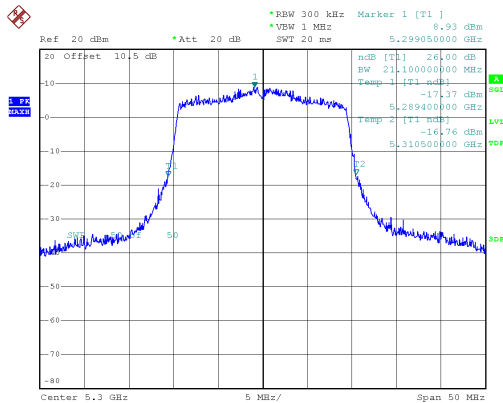
ANT B

Modulation Type: 802.11ax20

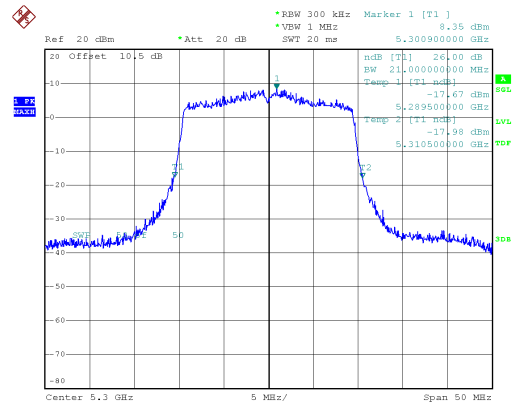
CH52



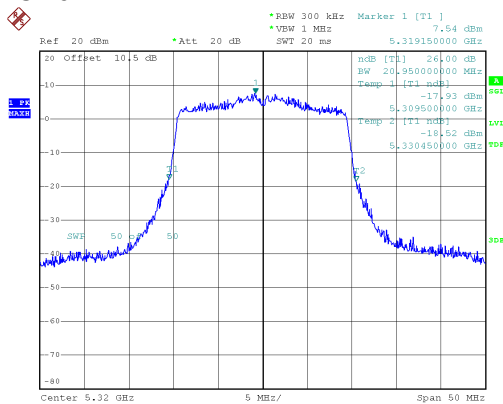
CH60



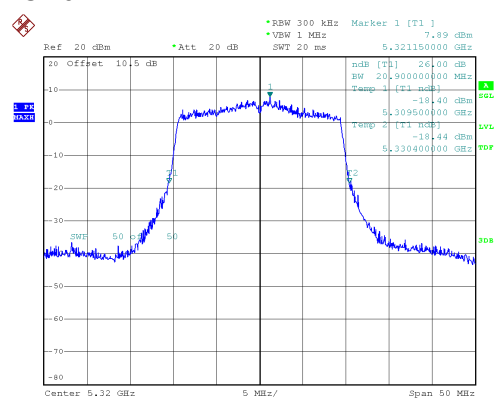
CH60



CH64



CH64





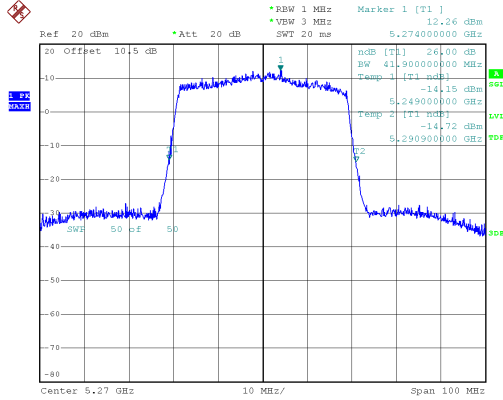
26dB Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax40

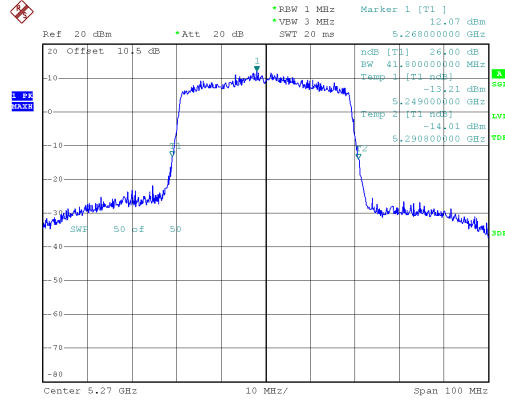
CH54



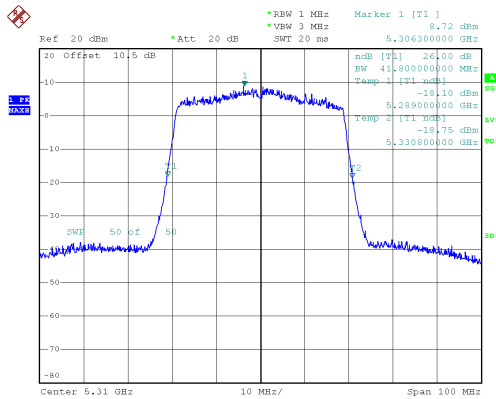
ANT B

Modulation Type: 802.11ax40

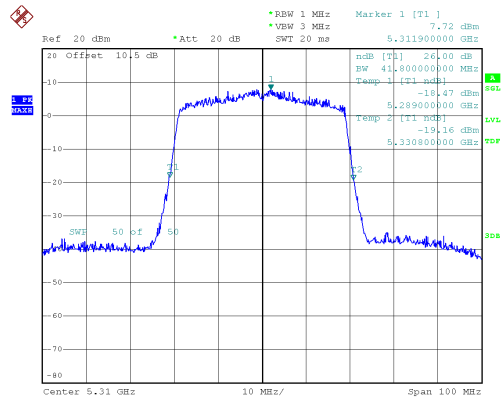
CH54



CH62

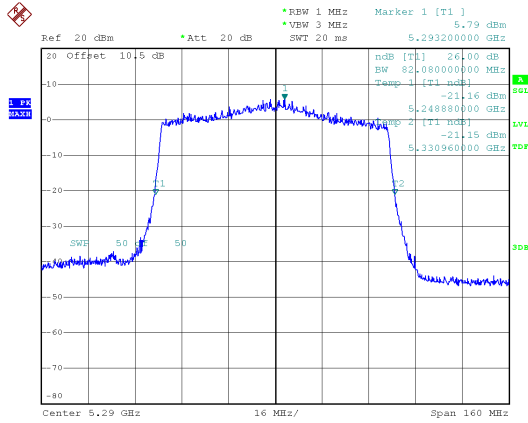


CH62

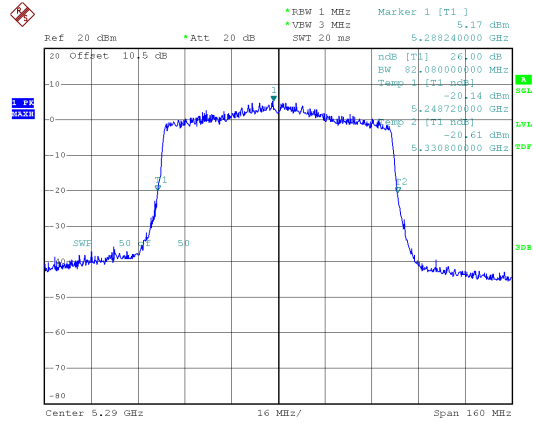




26dB Bandwidth
MIMO
ANT A
Modulation Type: 802.11ax80
CH58

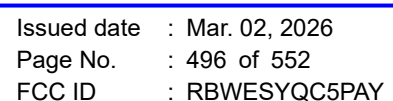
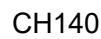
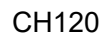
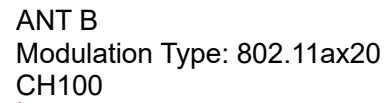


ANT B
Modulation Type: 802.11ax80
CH58





26dB Bandwidth
MIMO
ANT A
Modulation Type: 802.11ax20
CH100





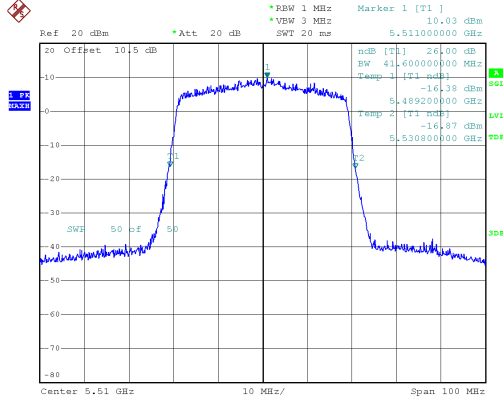
26dB Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax40

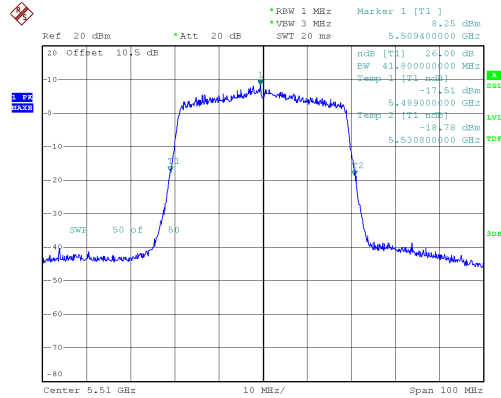
CH102



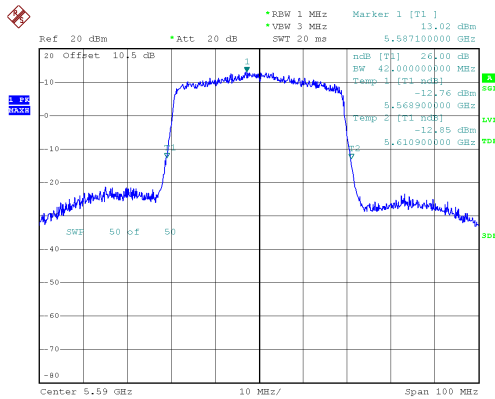
ANT B

Modulation Type: 802.11ax40

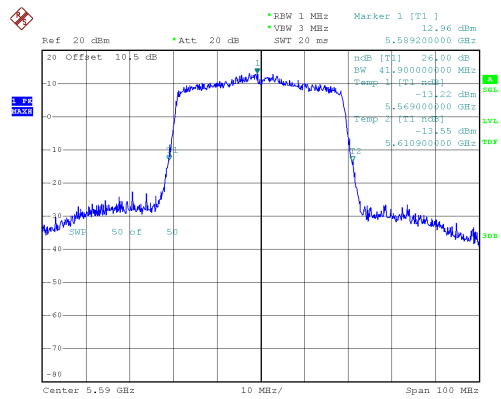
CH102



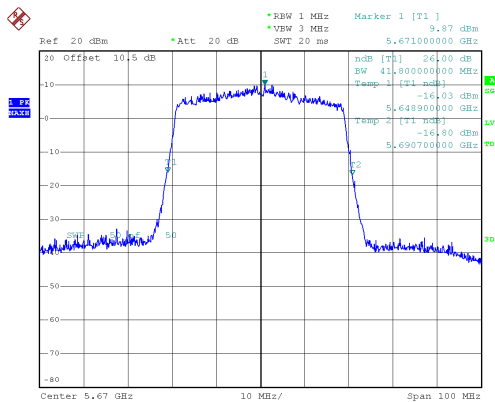
CH118



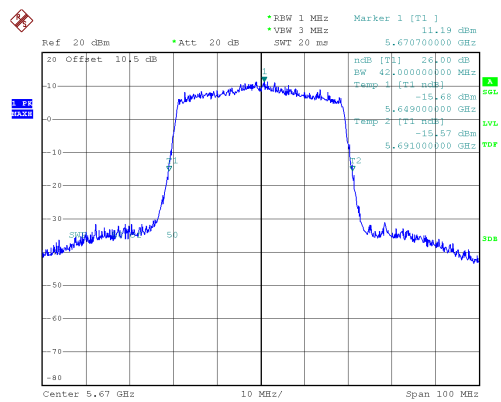
CH118



CH134

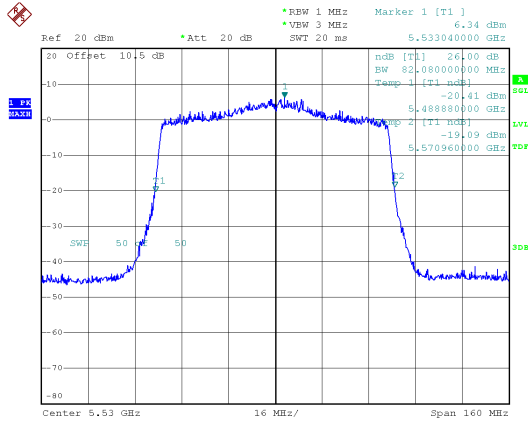


CH134

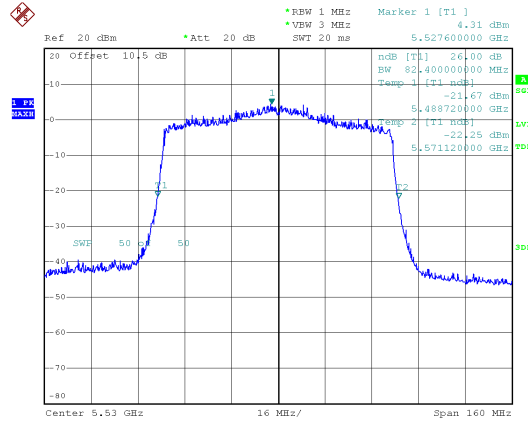




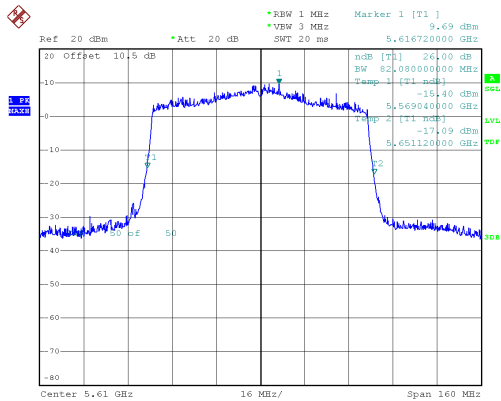
26dB Bandwidth
MIMO
ANT A
Modulation Type: 802.11ax80
CH106



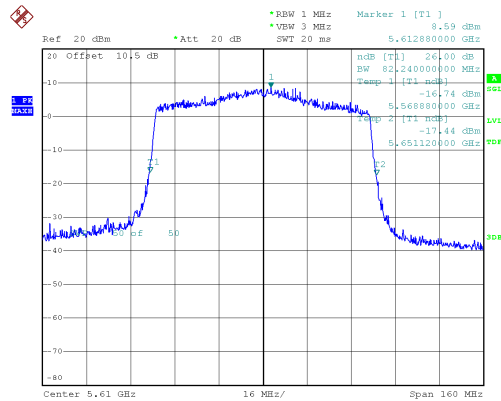
ANT B
Modulation Type: 802.11ax80
CH106



CH122



CH122





26dB Bandwidth

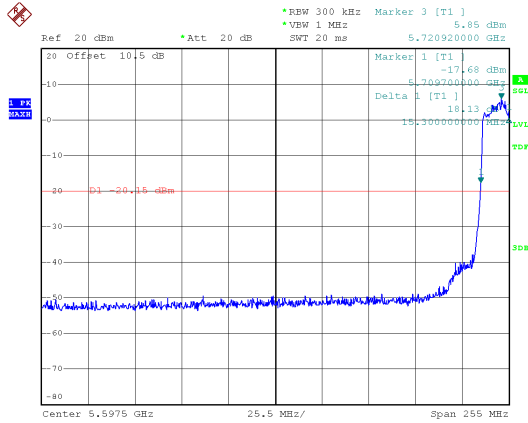
Within 5470-5725MHz Band, Straddle Channel

MIMO

ANT A

Modulation Type: 802. 11ax20

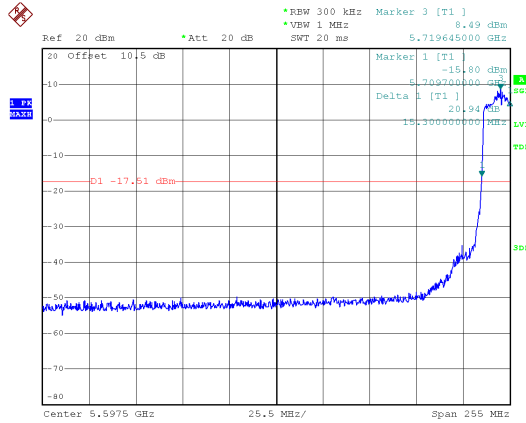
CH144



ANT B

Modulation Type: 802. 11ax20

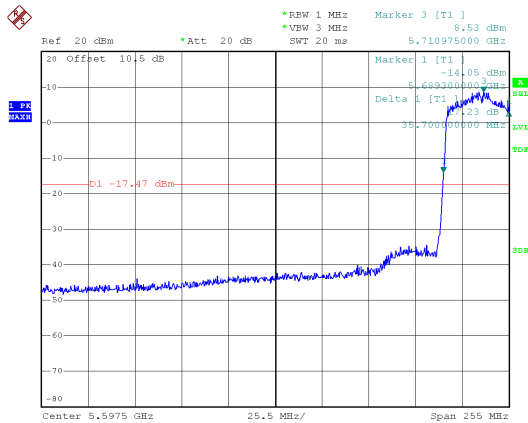
CH144



ANT A

Modulation Type: 802. 11ax40

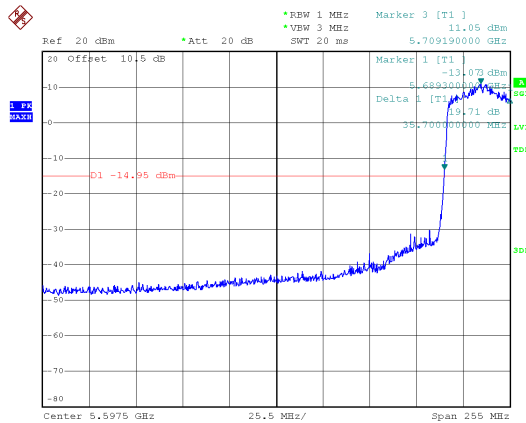
CH142



ANT B

Modulation Type: 802.11ax40

CH142





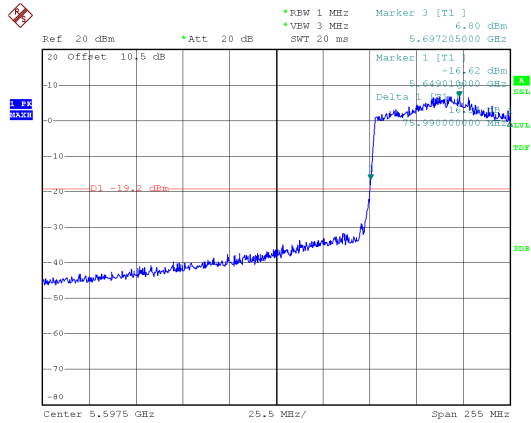
26dB Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax80

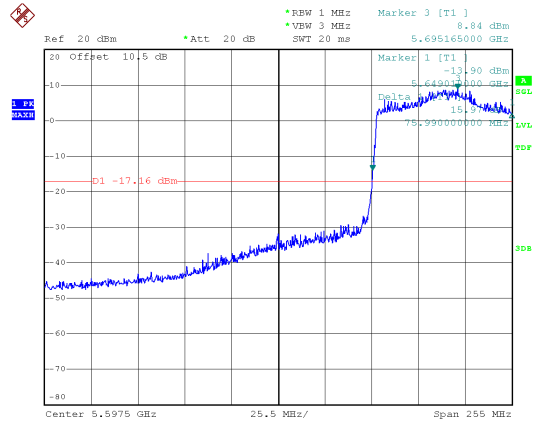
CH138



ANT B

Modulation Type: 802.11ax80

CH138





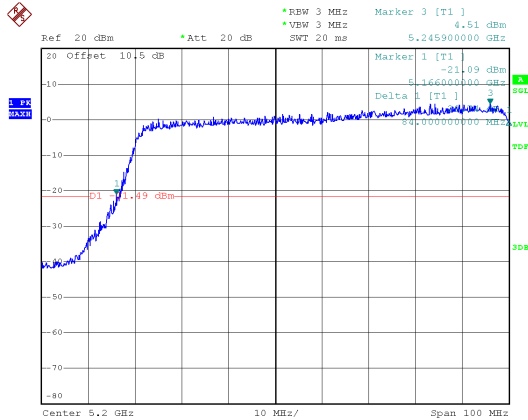
26dB Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax160

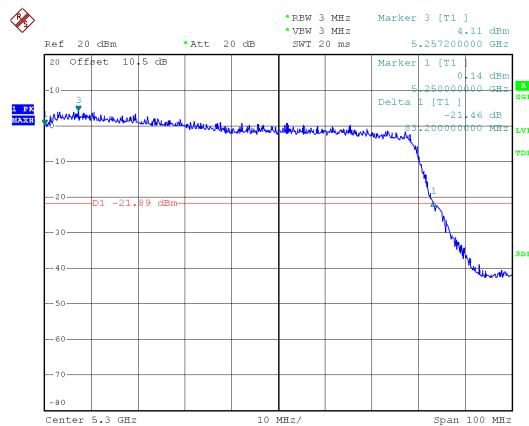
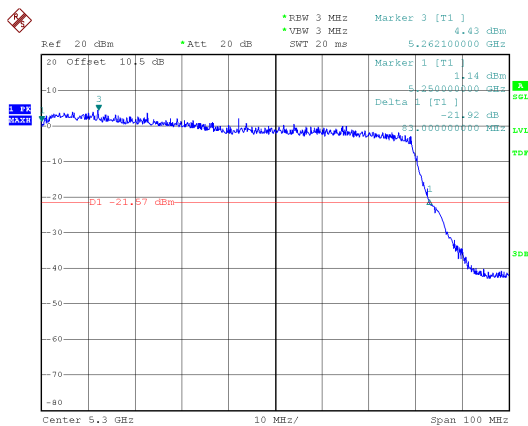
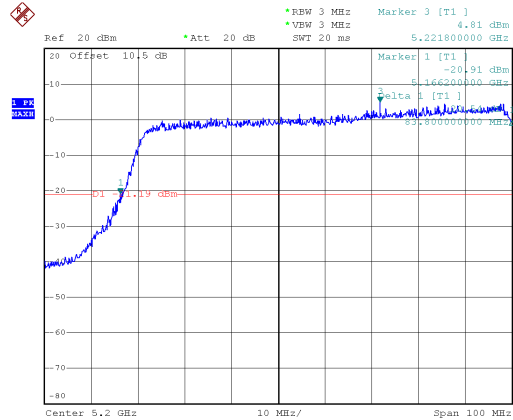
CH50



ANT B

Modulation Type: 802.11ax160

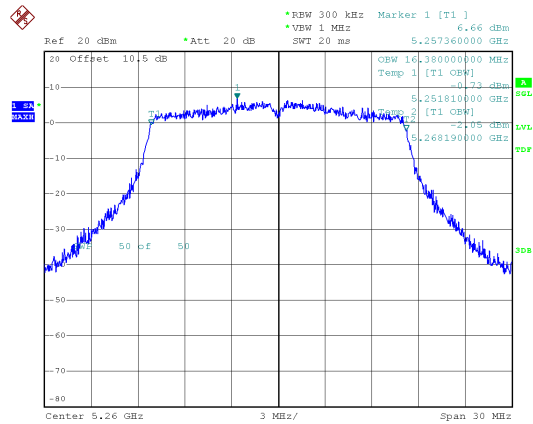
CH50







99% Bandwidth
SISO ANT A
Modulation Type: 802.11a
CH36



Ref 20 dBm *Att 20 dB •RBW 300 kHz Marker 1 [T1] 9.10 dBm
 •VBW 1 MHz SWT 20 ms 5.198350000 GHz

20 Offset 10.5 dB CW 16.410000000 MHz A set
 Temp 1 [T1 CW] 0.94 dBm Lvl
 0.06 GHz 5.208220000 GHz Tol
 5.191810000 GHz

SWT 50 50 Sd

Center 5.2 GHz 3 MHz/ Span 30 MHz

Ref 20 dBm *Att 20 dB Marker 1 [T1] 6.65 dBm
 5.300450000 GHz
 RBW 300 kHz VBW 1 MHz SWT 20 ms
 dBW 16.410000000 MHz
 Temp 1 [T1 dBW] -1.41 dBm
 5.291780000 GHz
 5.291780000 GHz -1.56 dBm
 5.308190000 GHz
 Center 5.3 GHz 3 MHz/ Span 30 MHz

• RBW 300 kHz Marker 1 [71]
 • VBW 1 MHz 10.69 dBm
 Ref 20 dBm *Att 20 dB SWT 20 ms 5.239280000 GHz

20 Offset 10.5 dB
 -10
 -20
 -30
 -40
 -50
 -60
 -70
 -80

5.23720000 GHz
 5.24120000 GHz
 5.231720000 GHz
 5.248250000 GHz

Center 5.24 GHz 3 MHz/ Span 30 MHz

Ref 20 dBm *Att 20 dB

SWT 20 ms

5.321050000 GHz

20 Offset 1015 dB

dBm

50 50

Center 5.32 GHz 3 MHz/

Span 30 MHz

RBW 300 kHz Marker 1 [T1]

VBW 1 MHz 6.95 dBm

GBW 16.610000000 MHz

Temp 1 [T1 BW]

-1.81 dBm

5.311780000 GHz

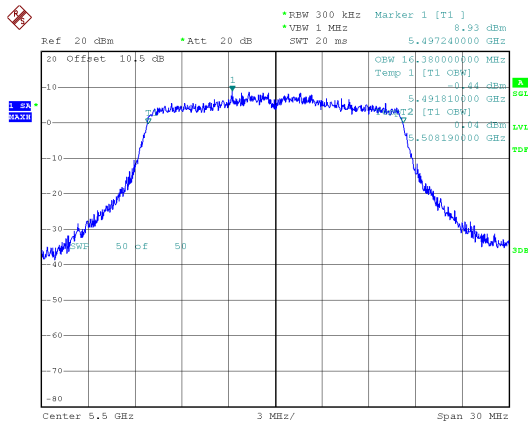
5.328190000 GHz

-0.74 dBm

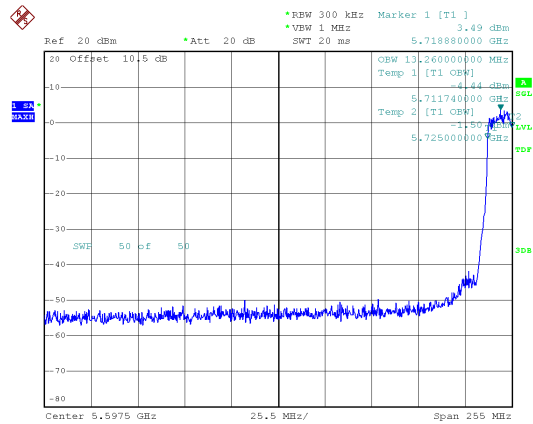
3dB



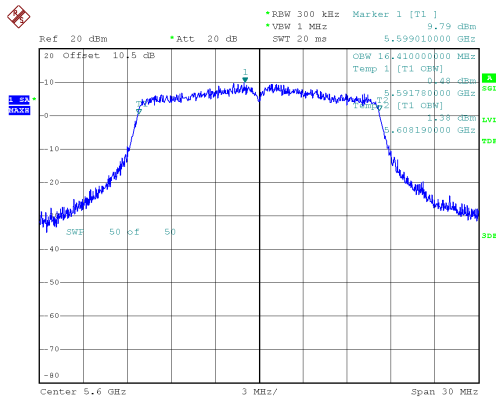
99% Bandwidth
SISO ANT A
Modulation Type: 802.11a
CH100



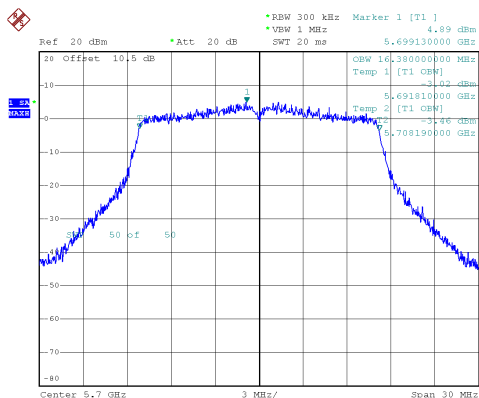
Within 5470-5725MHz band
Modulation Type: 802.11a
CH144



CH120



CH140

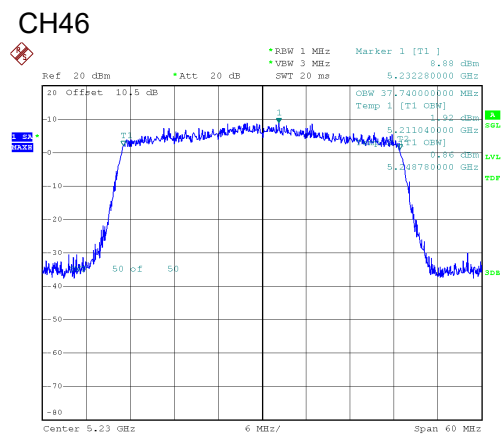
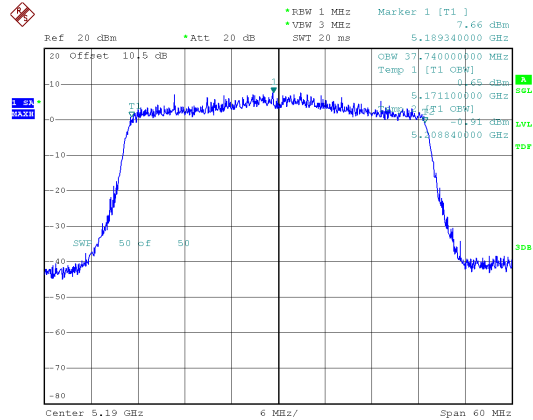






99% Bandwidth
MIMO
ANT A
Modulation Type: 802.11ax40
CH38

ANT B
Modulation Type: 802.11ax40
CH38







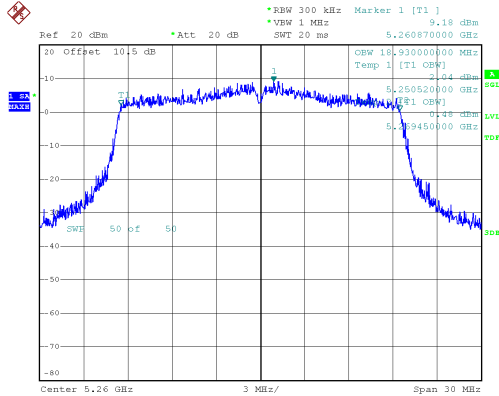
99% Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax20

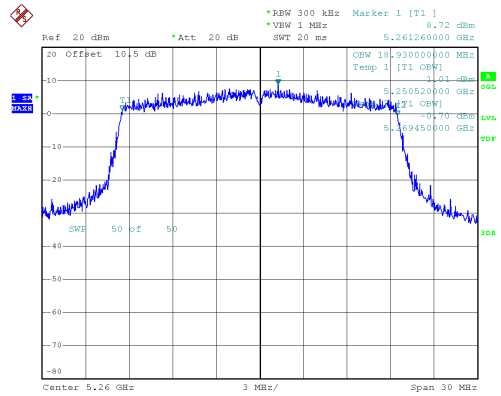
CH52



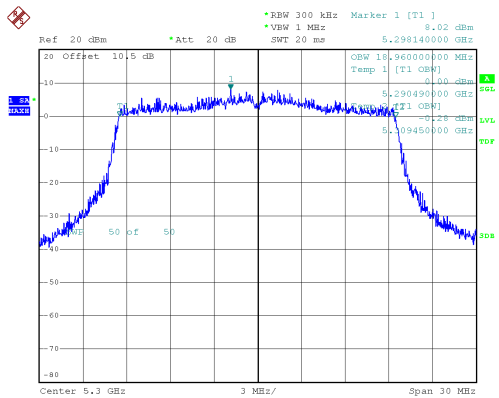
ANT B

Modulation Type: 802.11ax20

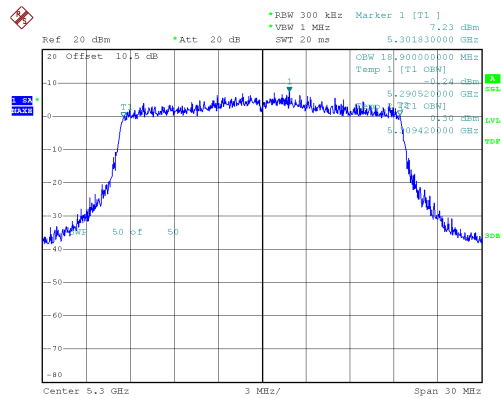
CH52



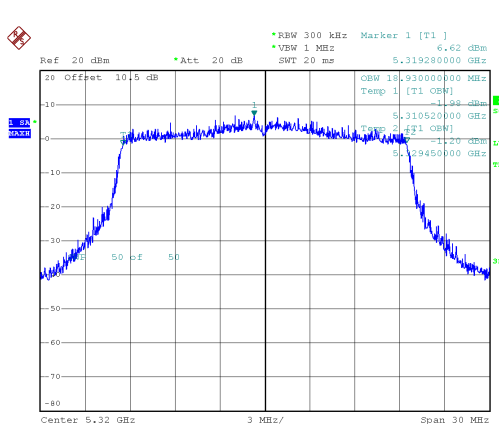
CH60



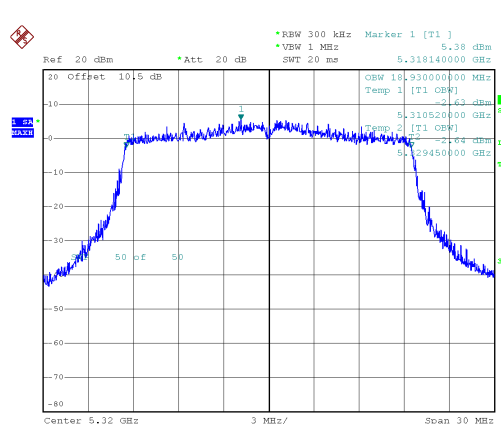
CH60



CH64



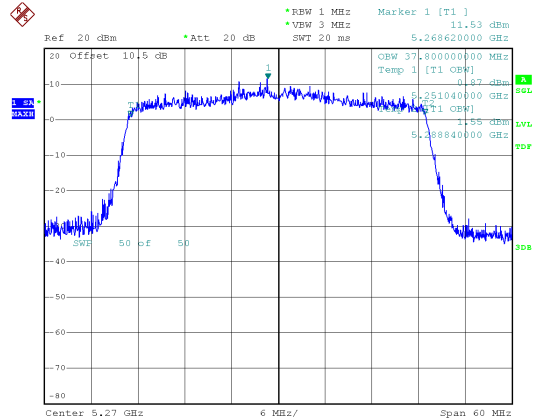
CH64



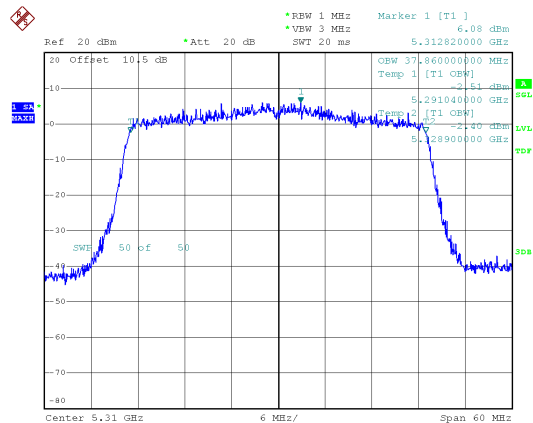


99% Bandwidth
MIMO
ANT A
Modulation Type: 802.11ax40
CH54

ANT B
Modulation Type: 802.11ax40
CH54



CH62





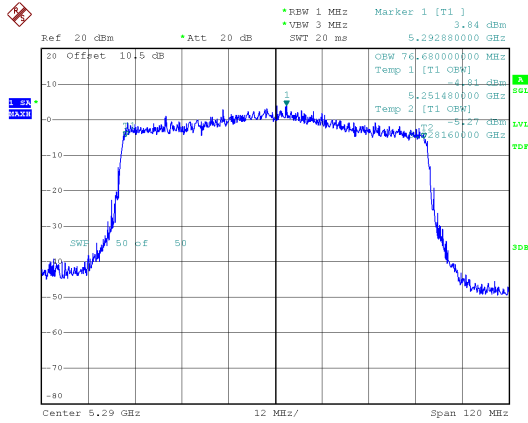
99% Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax80

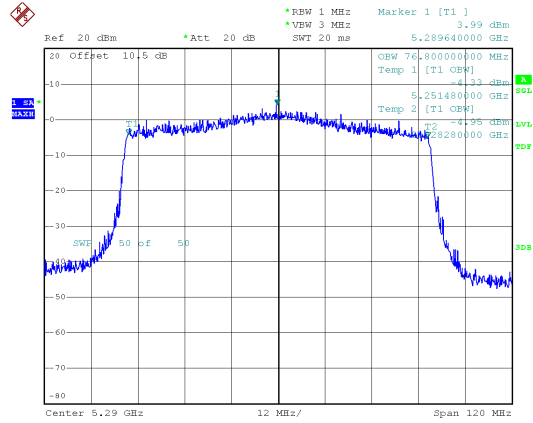
CH58



ANT B

Modulation Type: 802.11ax80

CH58





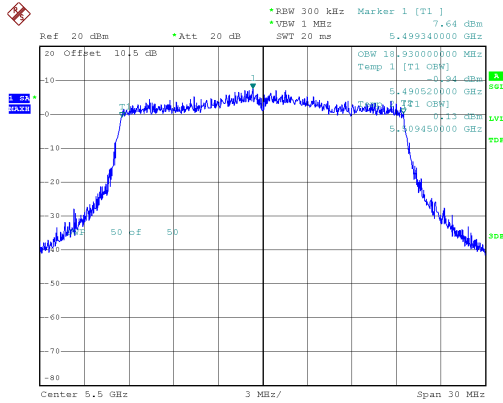
99% Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax20

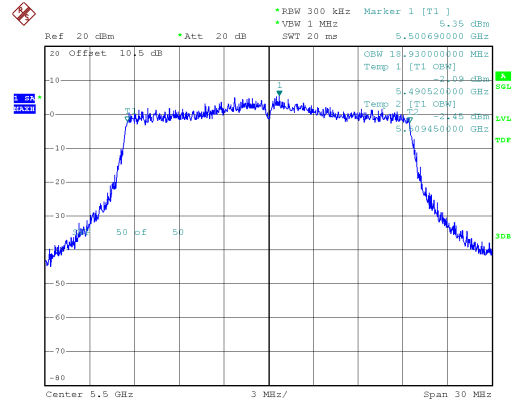
CH100



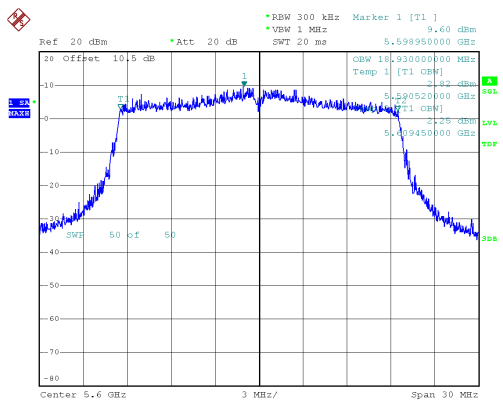
ANT B

Modulation Type: 802.11ax20

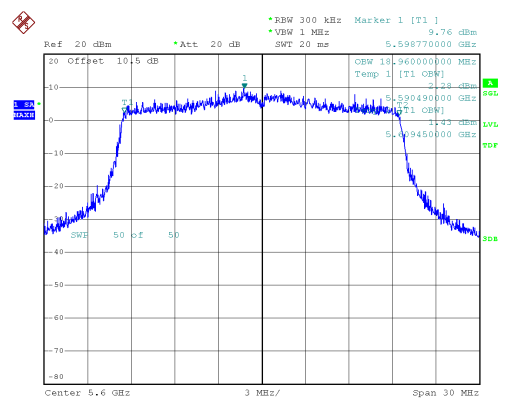
CH100



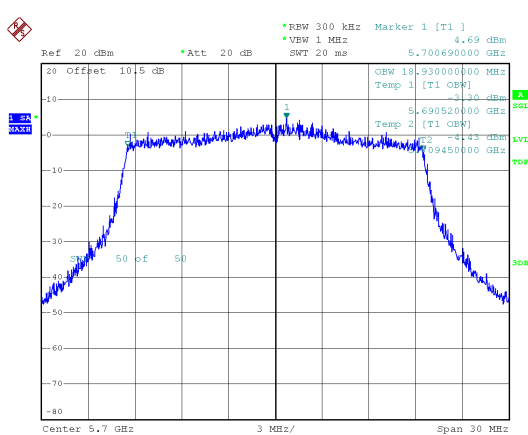
CH120



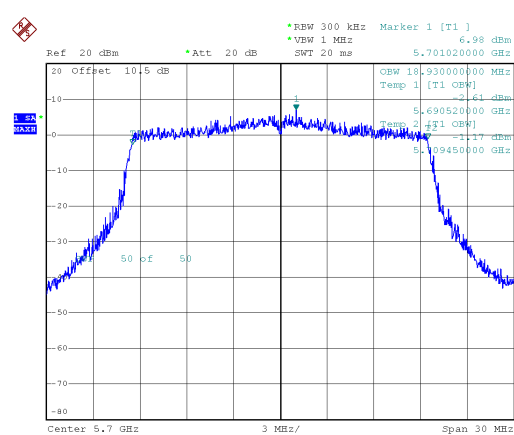
CH120



CH140



CH140





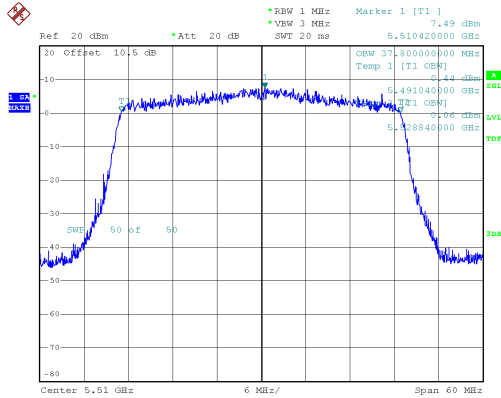
99% Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax40

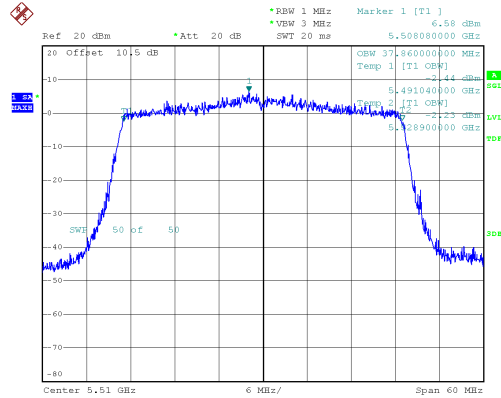
CH102



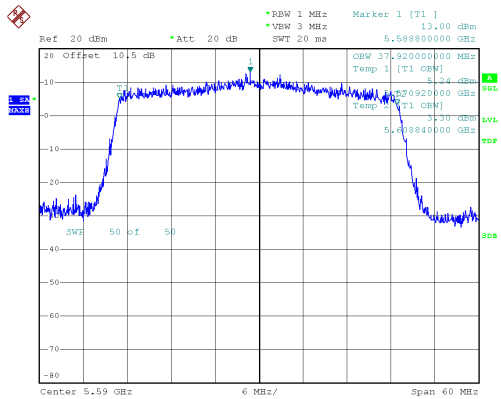
ANT B

Modulation Type: 802.11ax40

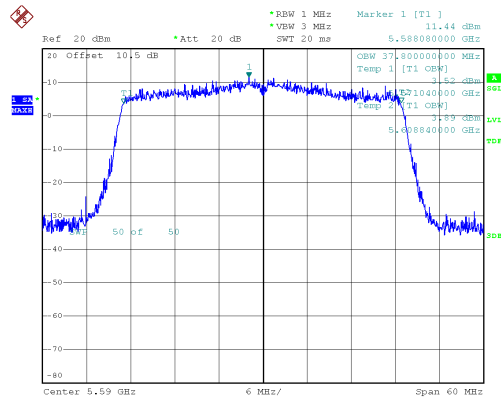
CH102



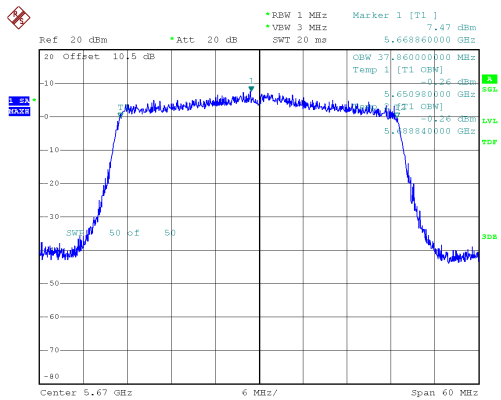
CH118



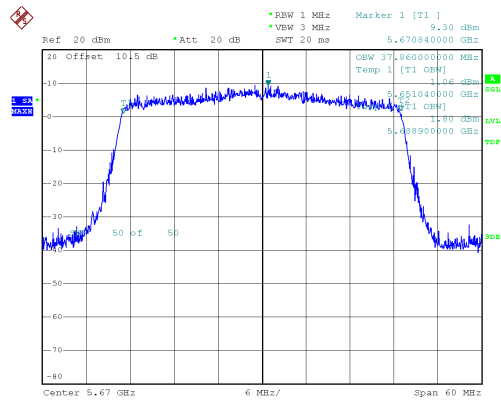
CH118



CH134



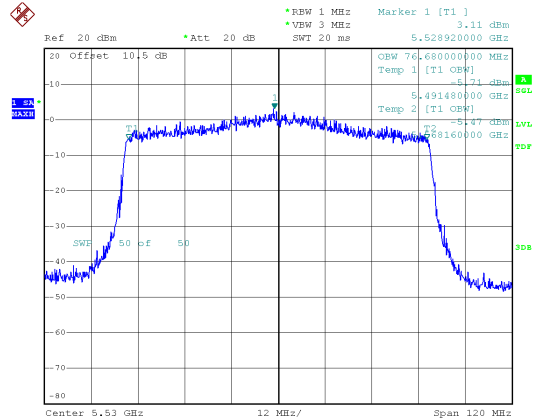
CH134



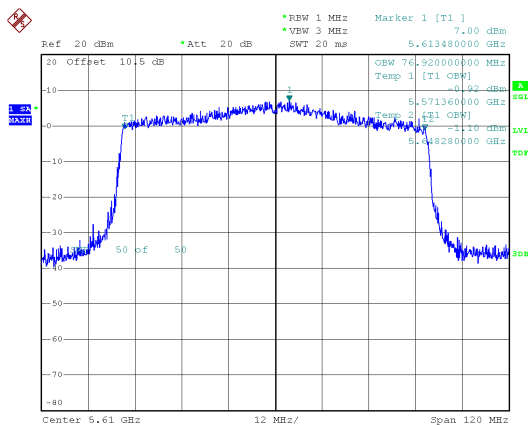


99% Bandwidth
MIMO
ANT A
Modulation Type: 802.11ax80
CH106

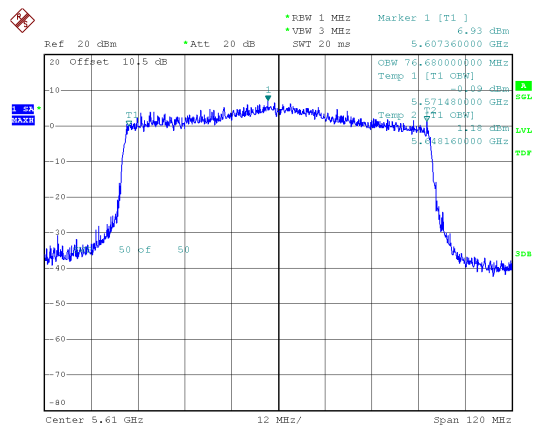
ANT B
Modulation Type: 802.11ax80
CH106



CH122



CH122





99% Bandwidth

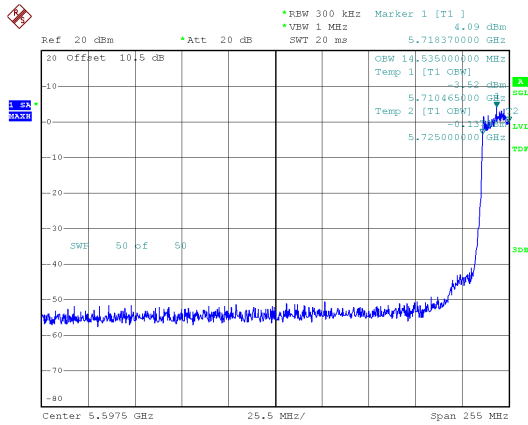
Within 5470-5725MHz Band, Straddle Channel

MIMO

ANT A

Modulation Type: 802. 11ax20

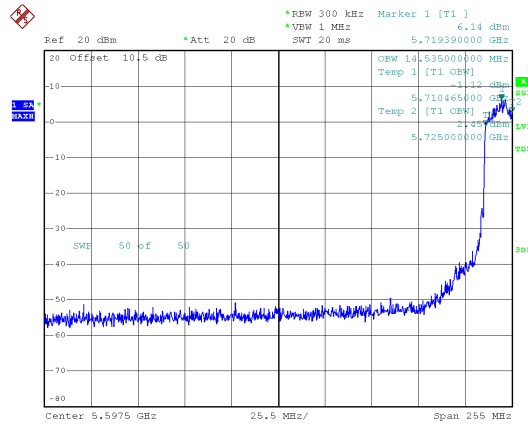
CH144



ANT B

Modulation Type: 802. 11ax20

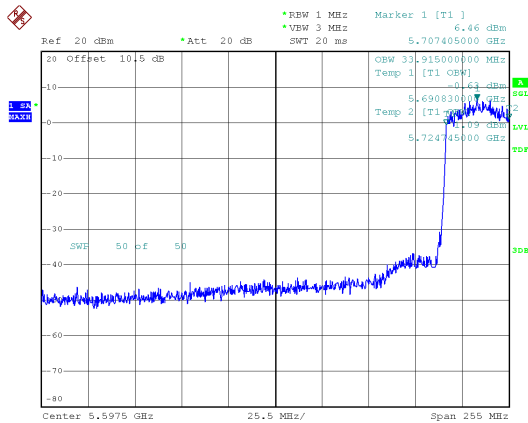
CH144



ANT A

Modulation Type: 802. 11ax40

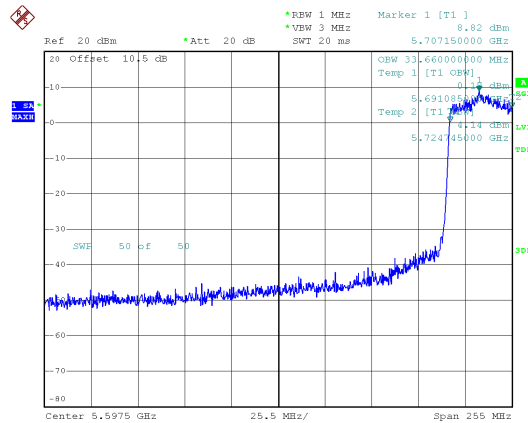
CH142



ANT B

Modulation Type: 802.11ax40

CH142





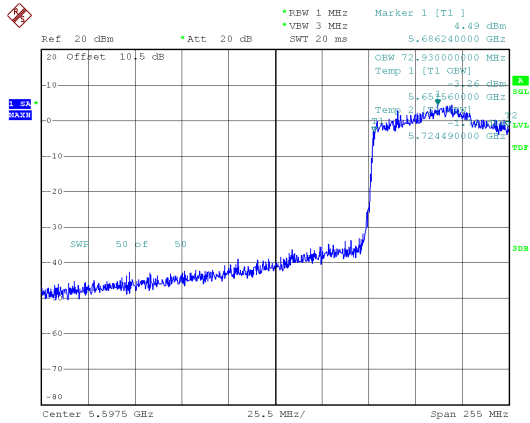
99% Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax80

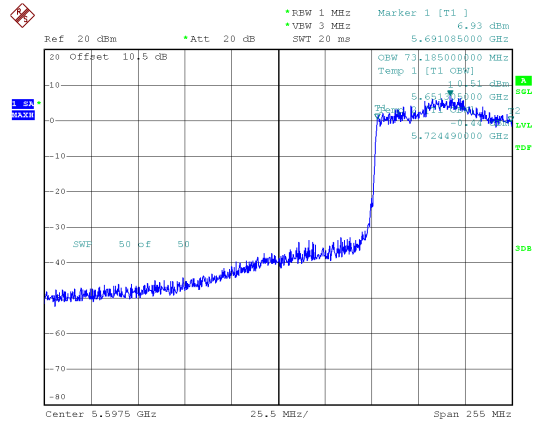
CH138



ANT B

Modulation Type: 802.11ax80

CH138





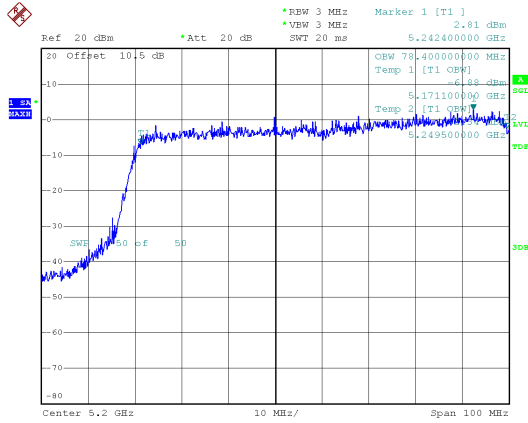
99% Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax160

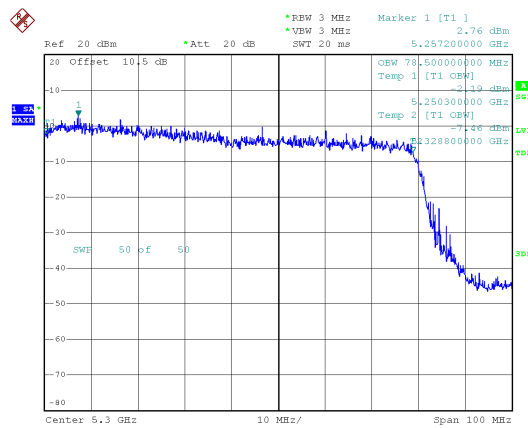
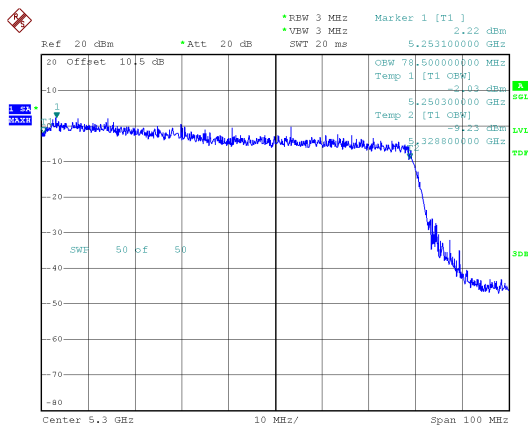
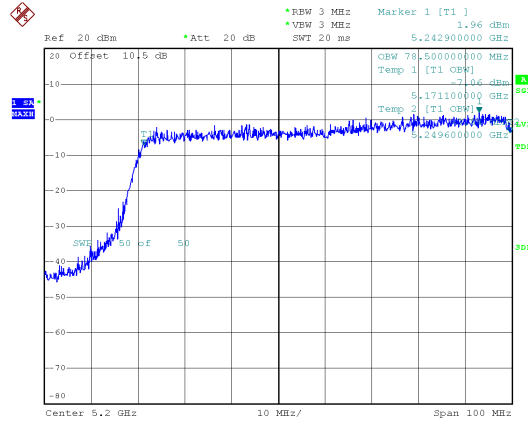
CH50



ANT B

Modulation Type: 802.11ax160

CH50





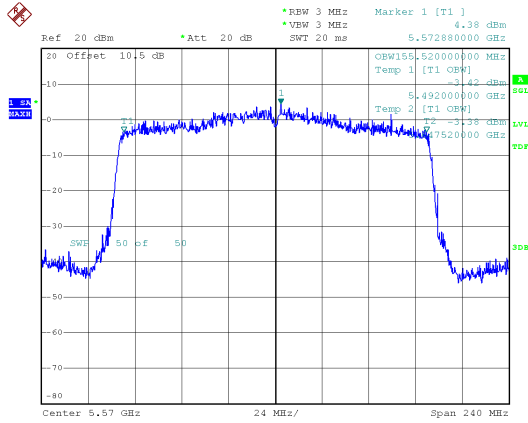
99% Bandwidth

MIMO

ANT A

Modulation Type: 802.11ax160

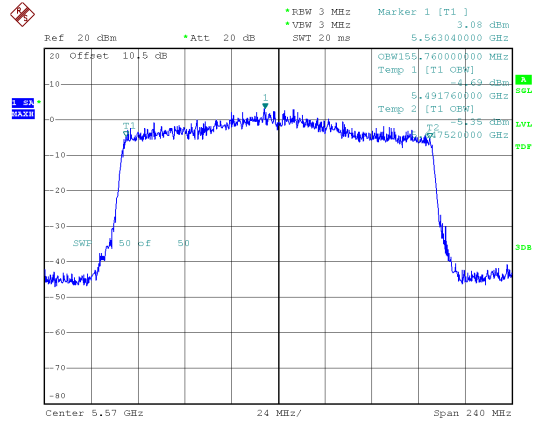
CH114



ANT B

Modulation Type: 802.11ax160

CH114





10. Average Power

10.1. Test Limit

Output Power:

Frequency Band		Limit
☒	5.15~5.25GHz	
	Operating Mode	
☐	Outdoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30degrees as measured from the horizon must not exceed 125 mW (21 dBm).
☐	Indoor access point	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☐	Fixed point-to-point access points	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
☒	client devices	The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



Frequency Band		Limit
☒	5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
☒	5.470-5.725 GHz	
☒	5.725~5.85 GHz	The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.

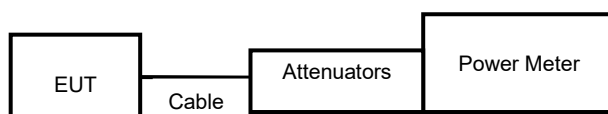
10.2. Test Procedure

According to the methods defined in ANSI C63.10-2020+Cor.1-2023 and ANSI C63.10a-2024 Section 12.4

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11.5 dB (including 10 dB pad and 1.5 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

10.3. Test Setup Layout



**10.4. Test Result and Data**

For 24070407-TRFCC04

ANT A

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A			
11a	6 Mbps	17.5	36	5180	15.61	15.61	36.392	24.00
11a	6 Mbps	17.5	40	5200	15.73	15.73	37.411	24.00
11a	6 Mbps	21	48	5240	18.20	18.20	66.069	24.00
11a	6 Mbps	17.5	52	5260	15.27	15.27	33.651	23.91
11a	6 Mbps	17.5	60	5300	14.48	14.48	28.054	23.91
11a	6 Mbps	18	64	5320	14.73	14.73	29.717	23.86
11a	6 Mbps	17	100	5500	15.26	15.26	33.574	23.92
11a	6 Mbps	19	120	5600	16.01	16.01	39.902	23.96
11a	6 Mbps	16	140	5700	11.58	11.58	14.388	23.89
11a	6 Mbps	19.5	149	5745	13.97	13.97	24.946	30.00
11a	6 Mbps	21	157	5785	15.40	15.40	34.674	30.00
11a	6 Mbps	19.5	165	5825	13.35	13.35	21.627	30.00

ANT B

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)	Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT B			
11a	6 Mbps	21	36	5180	19.09	19.09	81.096	24.00
11a	6 Mbps	21	40	5200	18.92	18.92	77.983	24.00
11a	6 Mbps	21	48	5240	18.26	18.26	66.988	24.00
11a	6 Mbps	21	52	5260	18.06	18.06	63.973	23.91
11a	6 Mbps	21	60	5300	17.85	17.85	60.954	23.91
11a	6 Mbps	21	64	5320	17.64	17.64	58.076	23.86
11a	6 Mbps	21	100	5500	17.20	17.20	52.481	23.92
11a	6 Mbps	20	120	5600	17.53	17.53	56.624	23.96
11a	6 Mbps	19	140	5700	17.41	17.41	55.081	23.89
11a	6 Mbps	20	149	5745	17.40	17.40	54.954	30.00
11a	6 Mbps	21	157	5785	17.57	17.57	57.148	30.00
11a	6 Mbps	21	165	5825	17.25	17.25	53.088	30.00

ESY1511E
ANT A, B

Modulation Type	Data Rate	Conducted Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11ax HE20	NSS1-MCS0	16	36	5180	14.26	13.93	17.11	51.386	24.00
11ax HE20	NSS1-MCS0	17	40	5200	15.20	14.95	18.09	64.374	24.00
11ax HE20	NSS1-MCS0	17.5	48	5240	14.85	15.11	17.99	62.983	24.00
11ax HE40	NSS1-MCS0	14.5	38	5190	12.55	12.11	15.35	34.244	24.00
11ax HE40	NSS1-MCS0	17	46	5230	14.64	14.22	17.45	55.531	24.00
11ax HE80	NSS1-MCS0	13.5	42	5210	10.78	10.47	13.64	23.110	24.00
11ax HE20	NSS1-MCS0	19	52	5260	15.69	16.78	19.28	84.711	24.00
11ax HE20	NSS1-MCS0	17	60	5300	14.03	13.56	16.81	47.992	24.00
11ax HE20	NSS1-MCS0	15	64	5320	11.78	11.21	14.51	28.279	24.00
11ax HE40	NSS1-MCS0	18	54	5270	14.80	14.56	17.69	58.775	24.00
11ax HE40	NSS1-MCS0	15	62	5310	11.36	11.01	14.20	26.296	24.00
11ax HE80	NSS1-MCS0	14.5	58	5290	10.76	10.69	13.74	23.634	24.00
11ax HE20	NSS1-MCS0	15	100	5500	13.21	10.83	15.19	33.047	24.00
11ax HE20	NSS1-MCS0	17.5	120	5600	14.43	14.77	17.61	57.725	24.00
11ax HE20	NSS1-MCS0	14	140	5700	9.43	12.09	13.97	24.951	24.00
11ax HE40	NSS1-MCS0	14	102	5510	11.78	9.38	13.75	23.736	24.00
11ax HE40	NSS1-MCS0	18	118	5590	15.09	14.70	17.91	61.797	24.00
11ax HE40	NSS1-MCS0	15.5	134	5670	11.47	13.24	15.45	35.114	24.00
11ax HE80	NSS1-MCS0	13	106	5530	10.01	8.36	12.27	16.878	24.00
11ax HE80	NSS1-MCS0	16.5	122	5610	13.11	13.05	16.09	40.648	24.00
11ax HE160	NSS1-MCS0	11.5	114	5570	8.88	7.76	11.37	13.697	24.00
11ax HE20	NSS1-MCS0	17	149	5745	11.56	14.55	16.32	42.832	30.00
11ax HE20	NSS1-MCS0	17	157	5785	11.10	13.76	15.64	36.651	30.00
11ax HE20	NSS1-MCS0	16.5	165	5825	10.47	12.39	14.55	28.481	30.00
11ax HE40	NSS1-MCS0	16.5	151	5755	10.67	13.49	15.32	34.004	30.00
11ax HE40	NSS1-MCS0	17.5	159	5795	11.60	13.93	15.93	39.172	30.00
11ax HE80	NSS1-MCS0	15.5	155	5775	9.08	11.88	13.71	23.508	30.00

ESY15I1E
ANT A, B

FCC Maximum Conducted Output Power (Within 5150-5250MHz band) RF Output Power(dBm)											
Channel	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 (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
					ANT A	ANT B					
50	11	11ax HE160	NSS1-MCS0	5250	3.84	3.36	6.62	0.00	4.589	6.62	24.00

FCC Maximum Conducted Output Power (Extends across 5250MHz band) RF Output Power(dBm)											
Channel	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 (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
					ANT A	ANT B					
50	11	11ax HE160	NSS1-MCS0	5250	3.17	3.20	6.20	0.00	4.164	6.20	24.00

Channel	Setting	Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power
					ANT A	ANT B	(dBm)
Meter power (for full power)							
50	11	11ax HE160	NSS1-MCS0	5250	8.42	8.34	11.39

Note: Power Meter Average power is for reference only.



ESY15I1E

ANT A

FCC Maximum Conducted Output Power (Within 5470-5725MHz band) RF Output Power(dBm)										
Channel	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 (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
					ANT A					
144	16.5	11a	6M	5720	9.95	9.95	0.00	9.886	9.95	22.62

FCC Maximum Conducted Output Power (Extends across 5725MHz band) RF Output Power(dBm)										
Channel	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 (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
					ANT A					
144	16.5	11a	6M	5720	2.19	2.19	0.00	1.656	2.19	30.00

Channel	Setting	Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)	Total Power
					ANT A	(dBm)
Meter power (for full power)						
Ch144	16.5	11a	6 Mbps	5720MHz	11.48	11.48

Note: Power Meter Average power is for reference only.



ESY15I1E

ANT B

FCC Maximum Conducted Output Power (Within 5470-5725MHz band) RF Output Power(dBm)										
Channel	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 (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
					ANT B					
144	21	11a	6M	5720	15.99	15.99	0.00	39.719	15.99	22.62

FCC Maximum Conducted Output Power (Extends across 5725MHz band) RF Output Power(dBm)										
Channel	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 (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
					ANT B					
144	21	11a	6M	5720	8.27	8.27	0.00	6.714	8.27	30.00

Channel	Setting	Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)	Total Power
					ANT B	(dBm)
Meter power (for full power)						
Ch144	21	11a	6 Mbps	5720MHz	18.41	18.41

Note: Power Meter Average power is for reference only.



ESY15I1E

ANT A, B

FCC Maximum Conducted Output Power (Within 5470-5725MHz band) RF Output Power(dBm)											
Channel	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 (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
					ANT A	ANT B					
144	16	11ax HE20	NSS1-MCS0	5720	9.19	11.88	13.75	0.00	23.716	13.75	22.85
142	16	11ax HE40	NSS1-MCS0	5710	9.86	12.13	14.15	0.00	26.013	14.15	24.00
138	16.5	11ax HE80	NSS1-MCS0	5690	10.60	12.67	14.77	0.00	29.974	14.77	24.00

FCC Maximum Conducted Output Power (Extends across 5725MHz band) RF Output Power(dBm)											
Channel	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 (mW)	With duty factor Total power (dBm)	FCC Limit (dBm)
					ANT A	ANT B					
144	16	11ax HE20	NSS1-MCS0	5720	2.25	5.23	7.00	0.00	5.013	7.00	30.00
142	16	11ax HE40	NSS1-MCS0	5710	-1.53	0.93	2.88	0.00	1.942	2.88	30.00
138	16.5	11ax HE80	NSS1-MCS0	5690	-5.13	-2.88	-0.85	0.00	0.822	-0.85	30.00

Channel	Setting	Modulation Type	Data Rate	Frequency (MHz)	Avg Power Output (dBm)		Total Power
					ANT A	ANT B	(dBm)
Meter power (for full power)							
Ch144	16	11ax HE20	NSS1-MCS0	5720MHz	10.89	13.89	15.65
Ch142	16	11ax HE40	NSS1-MCS0	5710MHz	11.15	13.58	15.54
Ch138	16.5	11ax HE80	NSS1-MCS0	5690MHz	11.57	13.89	15.89

Note: Power Meter Average power is for reference only.



For 24070407-TRFCC04

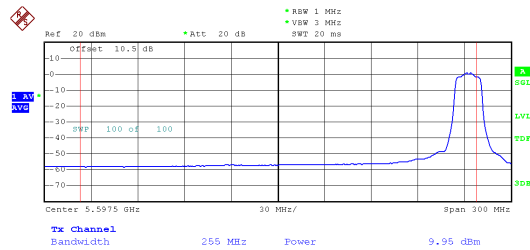
SISO

Within 5470-5725MHz Band, Straddle Channel

ANT A

Modulation Type: 802.11a

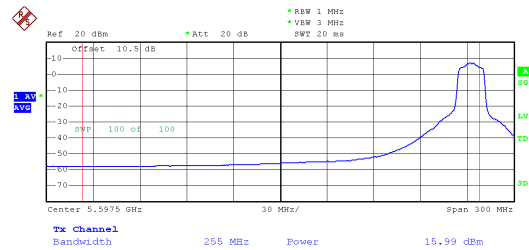
CH144



ANT B

Modulation Type: 802.11ax20

CH144



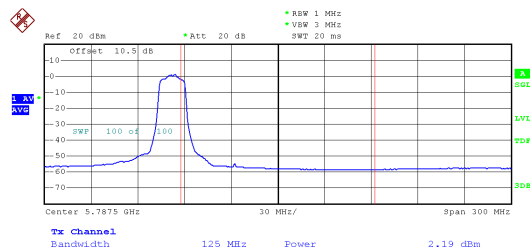
SISO

Extends across 5725MHz band, Straddle Channel

ANT A

Modulation Type: 802.11a

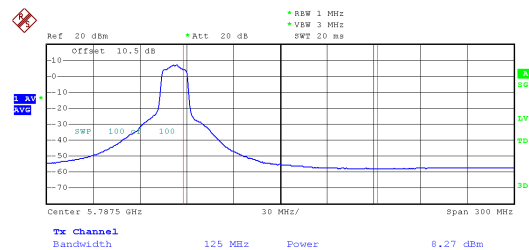
CH144



ANT B

Modulation Type: 802.11ax20

CH144







ESY15I1E

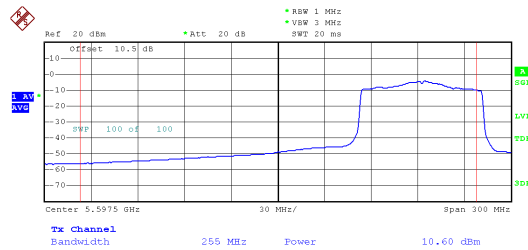
MIMO

Within 5470-5725MHz Band, Straddle Channel

ANT A

Modulation Type: 802.11ax80

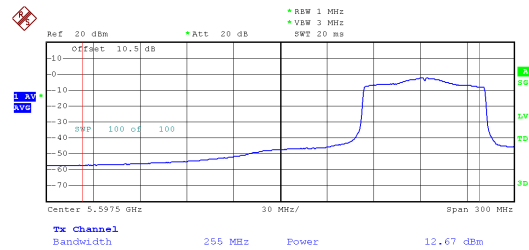
CH138



ANT B

Modulation Type: 802.11ax80

CH138





ESY15I1E

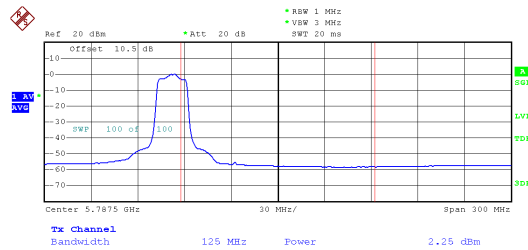
MIMO

Extends across 5725MHz band, Straddle Channel

ANT A

Modulation Type: 802.11ax20

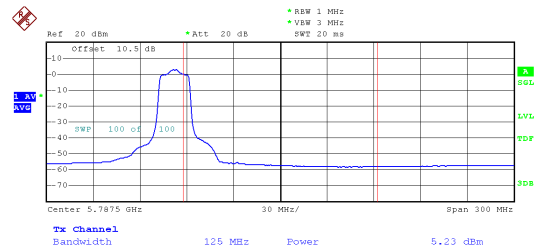
CH144



ANT B

Modulation Type: 802.11ax20

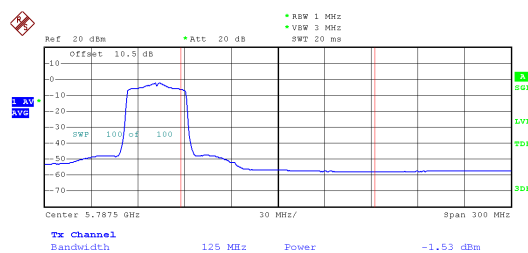
CH144



ANT A

Modulation Type: 802.11ax40

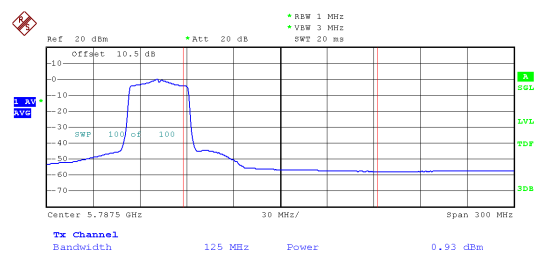
CH142



ANT B

Modulation Type: 802.11ax40

CH142





ESY15I1E

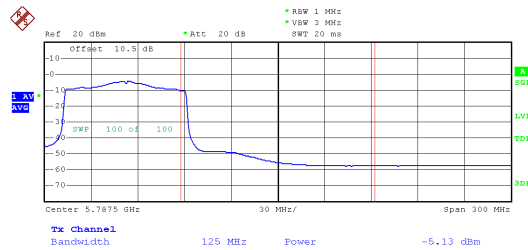
MIMO

Extends across 5725MHz band, Straddle Channel

ANT A

Modulation Type: 802.11ax80

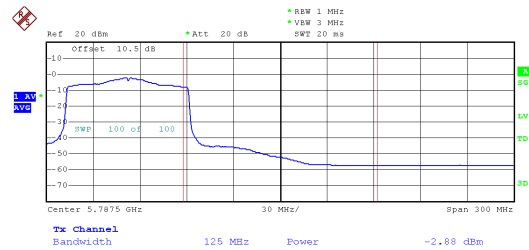
CH138



ANT B

Modulation Type: 802.11ax80

CH138





ESY1511E

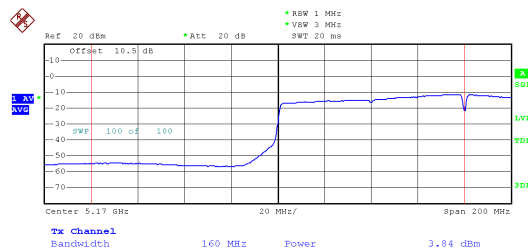
MIMO

Within 5150-5250MHz band

ANT A

Modulation Type: 802.11ax160

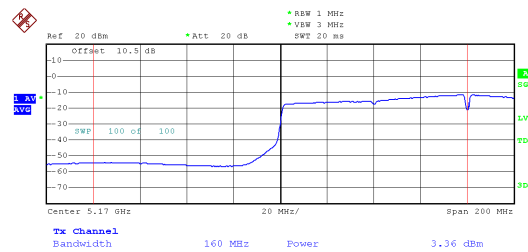
CH50



ANT B

Modulation Type: 802.11ax160

CH50



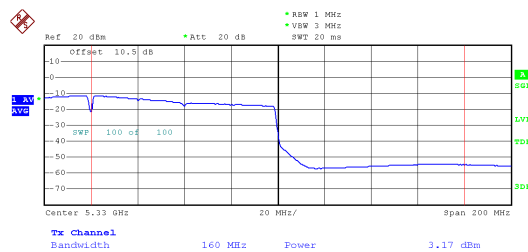
MIMO

Extends across 5250MHz band

ANT A

Modulation Type: 802.11ax160

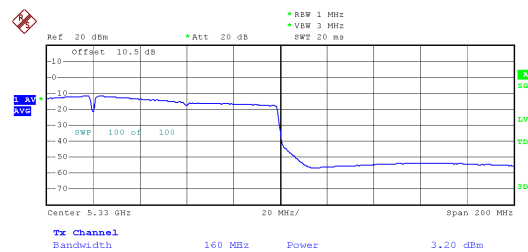
CH50



ANT B

Modulation Type: 802.11ax160

CH50





11. Power Spectral Density

11.1. Test Limit

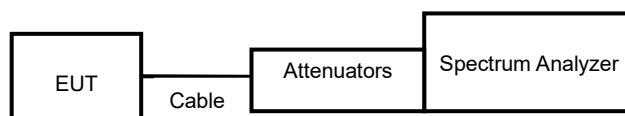
PSD:

Frequency Band		Limit
☒	5.15~5.25GHz	
	Operating Mode	
☐	Outdoor access point	17 dBm/MHz
☐	Indoor access point	17 dBm/MHz
☐	Fixed point-to-point access points	17 dBm/MHz
☒	Mobile and portable client devices	11 dBm/MHz
☒	5.725~5.85 GHz	11 dBm/MHz
☒	5.470-5.725 GHz	11 dBm/MHz
☒	5.725~5.85 GHz	30 dBm/500kHz

11.2. Test Procedure

Reference to KDB789033 D02 General UNII Test Procedures New Rules v02r01

11.3. Test Setup Layout





11.4. Test Result and Data

For 24070407-TRFCC04

SISO ANT A

In the 5.2G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A				
11a	36	5180	5.12	5.12	0.00	5.12	11.00
11a	40	5200	5.23	5.23	0.00	5.23	11.00
11a	48	5240	7.33	7.33	0.00	7.33	11.00

In the 5.3G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A				
11a	52	5260	3.80	3.80	0.00	3.80	11.00
11a	60	5300	4.13	4.13	0.00	4.13	11.00
11a	64	5320	4.16	4.16	0.00	4.16	11.00

In the 5.5G Band

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A				
11a	100	5500	5.69	5.69	0.00	5.69	11.00
11a	120	5600	6.86	6.86	0.00	6.86	11.00
11a	140	5700	2.02	2.02	0.00	2.02	11.00
11a	144	5720	1.95	1.95	0.00	1.95	11.00

In the 5.8G Band

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)	Sum chain (dBm)	Duty Cycle CF(dB)	10log(500KHz /RBW) CF (dB)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
			ANT A					
11a	149	5745	4.48	4.48	0.00	-3.01	1.47	30.00
11a	157	5785	4.95	4.95	0.00	-3.01	1.94	30.00
11a	165	5825	3.36	3.36	0.00	-3.01	0.35	30.00

**MIMO****In the 5.2G Band**

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
11ax HE20	36	5180	3.10	2.80	5.96	0.00	5.96	11.00
11ax HE20	40	5200	3.92	3.67	6.81	0.00	6.81	11.00
11ax HE20	48	5240	4.27	3.49	6.91	0.00	6.91	11.00
11ax HE40	38	5190	-1.19	-1.68	1.58	0.00	1.58	11.00
11ax HE40	46	5230	0.81	0.22	3.54	0.00	3.54	11.00
11ax HE80	42	5210	-5.44	-5.82	-2.62	0.00	-2.62	11.00

In the 5.3G Band

Modulation Type	Channel	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
11ax HE20	52	5260	4.45	4.14	7.31	0.00	7.31	11.00
11ax HE20	60	5300	3.00	2.30	5.67	0.00	5.67	11.00
11ax HE20	64	5320	0.67	-0.14	3.29	0.00	3.29	11.00
11ax HE40	54	5270	1.05	0.49	3.79	0.00	3.79	11.00
11ax HE40	62	5310	-2.59	-3.03	0.21	0.00	0.21	11.00
11ax HE80	58	5290	-5.48	-5.76	-2.61	0.00	-2.61	11.00

In the 5.5G Band

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
11ax HE20	100	5500	2.79	0.68	4.87	0.00	4.87	11.00
11ax HE20	120	5600	4.87	4.87	7.88	0.00	7.88	11.00
11ax HE20	140	5700	-0.70	1.73	3.69	0.00	3.69	11.00
11ax HE20	144	5720	0.73	3.42	5.29	0.00	5.29	11.00
11ax HE40	102	5510	-0.99	-3.22	1.05	0.00	1.05	11.00
11ax HE40	118	5590	2.76	2.14	5.47	0.00	5.47	11.00
11ax HE40	134	5670	-1.45	0.25	2.49	0.00	2.49	11.00
11ax HE40	142	5710	-1.66	0.57	2.61	0.00	2.61	11.00
11ax HE80	106	5530	-5.05	-6.50	-2.70	0.00	-2.70	11.00
11ax HE80	122	5610	-1.52	-1.91	1.30	0.00	1.30	11.00
11ax HE80	138	5690	-3.63	-1.61	0.51	0.00	0.51	11.00
11ac HE160	114	5570	-8.73	-10.03	-6.32	0.00	-6.32	11.00



In the 5.8G Band

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
			ANT A	ANT B					
11ax HE20	149	5745	1.30	3.90	5.80	0.00	-3.01	2.79	30.00
11ax HE20	157	5785	0.48	2.87	4.85	0.00	-3.01	1.84	30.00
11ax HE20	165	5825	-0.37	1.49	3.67	0.00	-3.01	0.66	30.00
11ax HE40	151	5755	-2.28	0.26	2.18	0.00	-3.01	-0.83	30.00
11ax HE40	159	5795	-1.83	0.51	2.51	0.00	-3.01	-0.50	30.00
11ax HE80	155	5775	-6.53	-3.89	-2.00	0.00	-3.01	-5.01	30.00

802.11ax(160)

Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
11ac HE160	50	5210	-10.94	-10.99	-7.95	0.00	-7.95	11.00
11ac HE160		5290	-10.77	-11.29	-8.01	0.00	-8.01	11.00



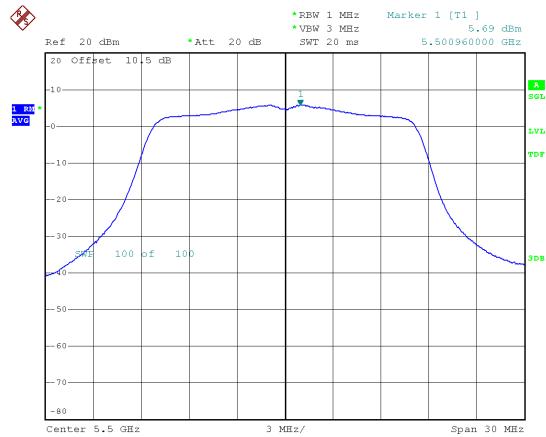
SISO ANT A

CH36

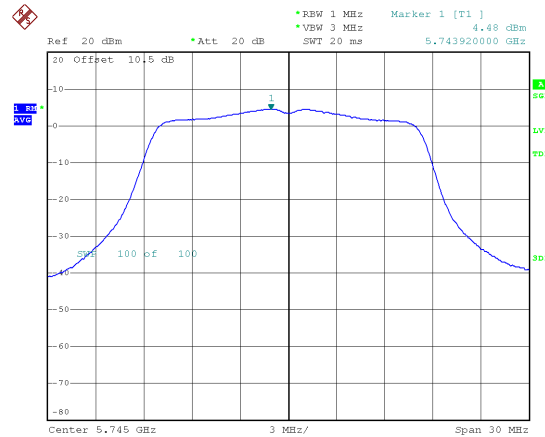




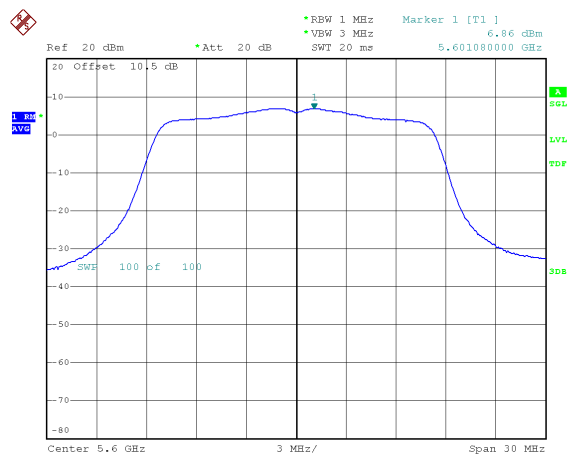
SISO ANT A
CH100



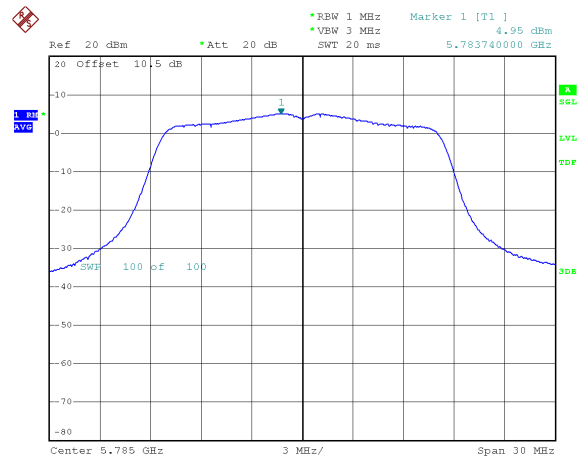
CH149



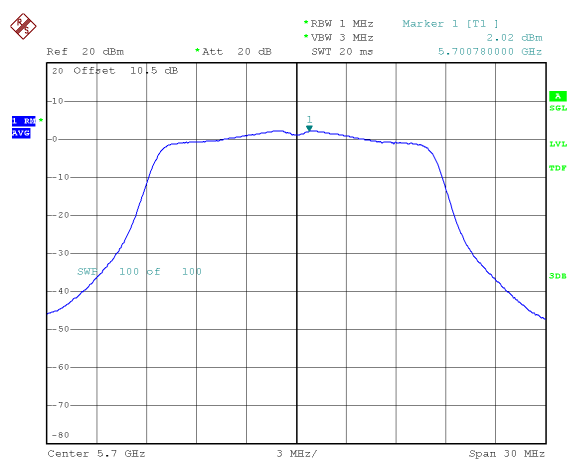
CH120



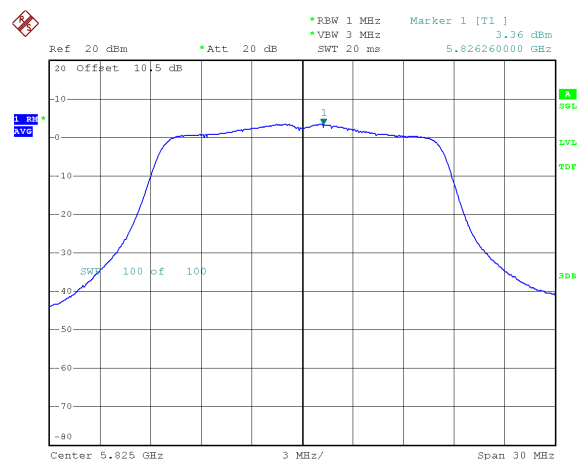
CH157

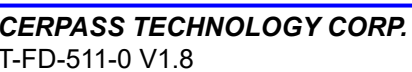


CH140



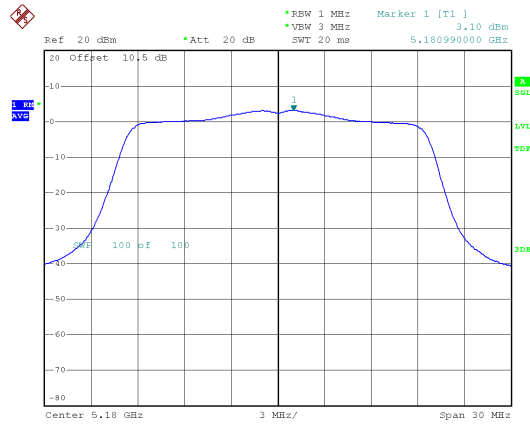
CH165



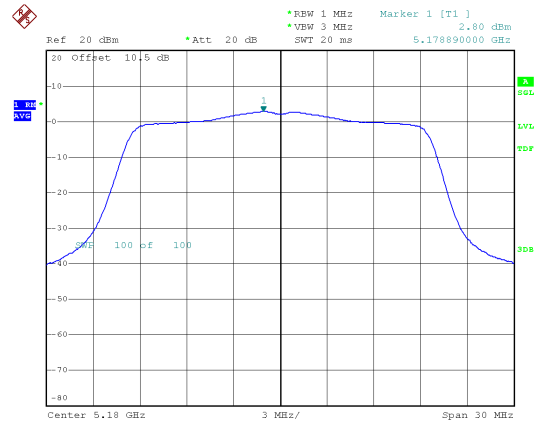




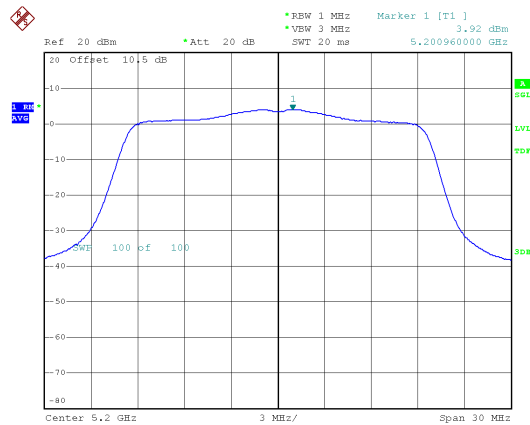
MIMO
ANT A
Modulation Type: 802.11ax20
CH36



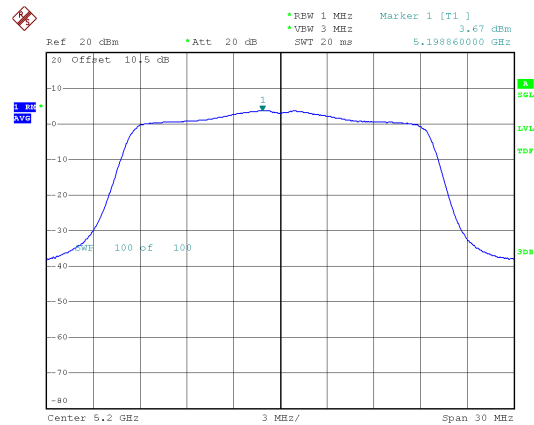
ANT B
Modulation Type: 802.11ax20
CH36



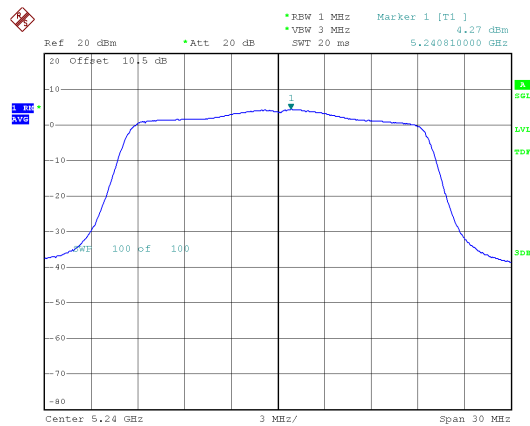
CH40



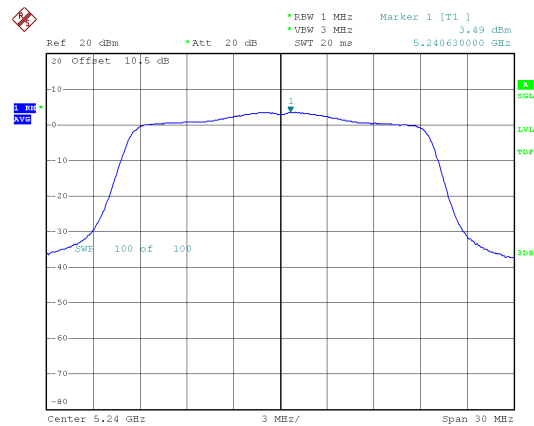
CH40



CH48

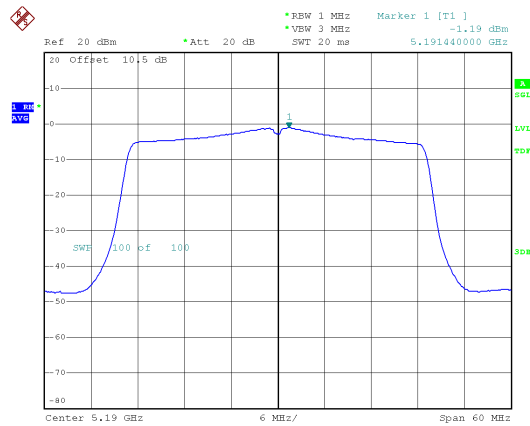


CH48

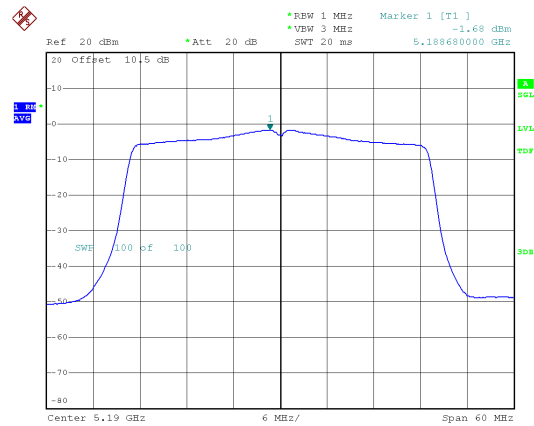




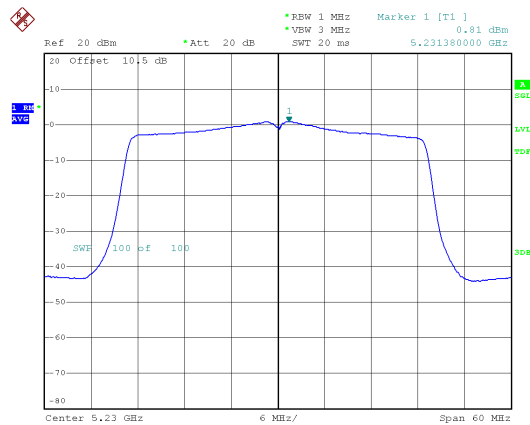
MIMO
ANT A
Modulation Type: 802.11ax40
CH38



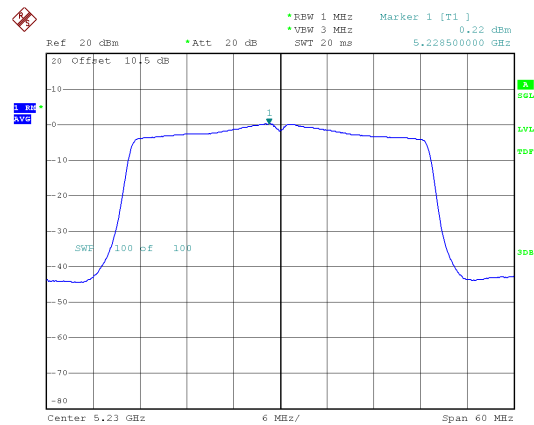
ANT B
Modulation Type: 802.11ax40
CH38



CH46

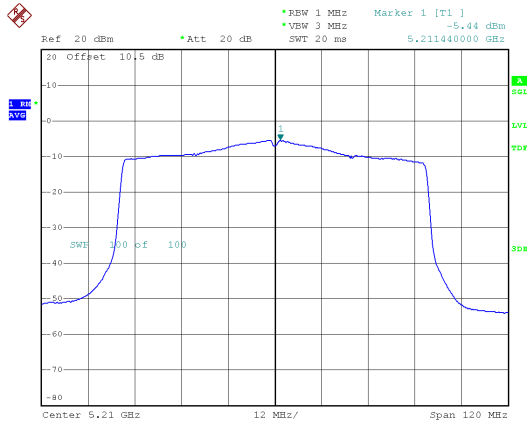


CH46

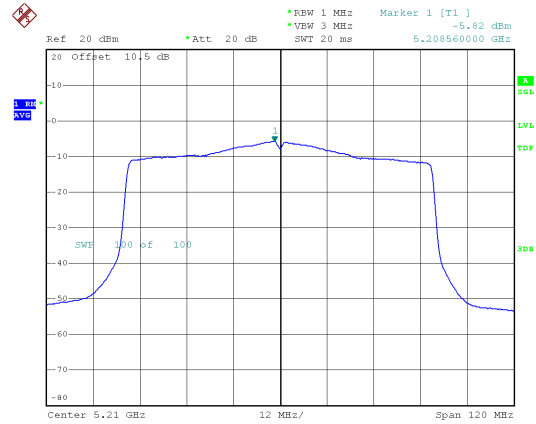




MIMO
ANT A
Modulation Type: 802.11ax80
CH42

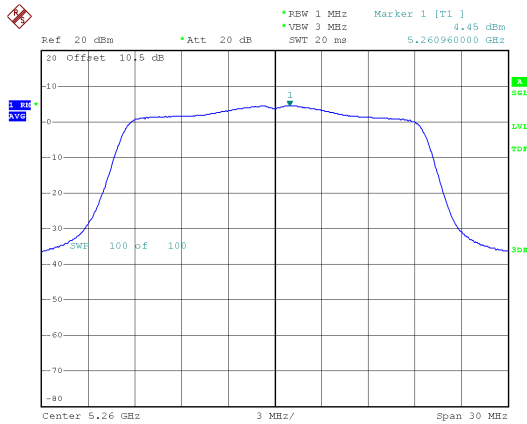


ANT B
Modulation Type: 802.11ax80
CH42

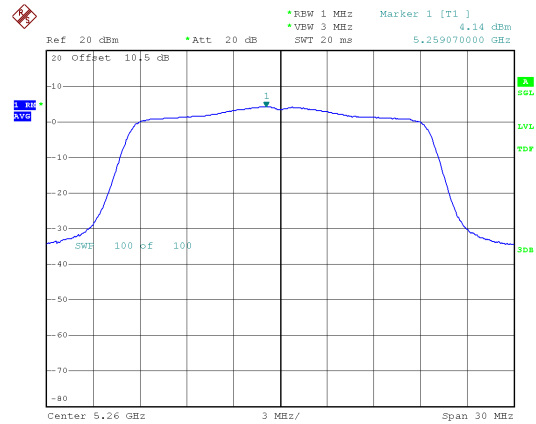




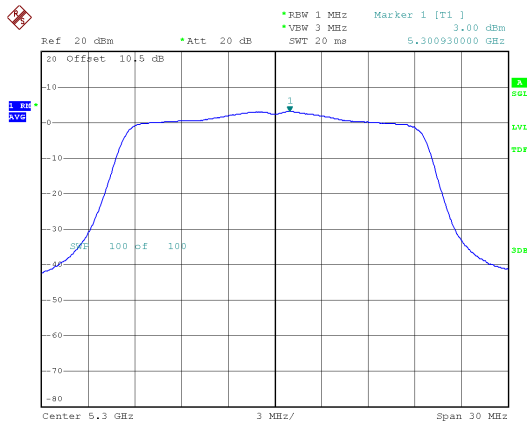
MIMO
ANT A
Modulation Type: 802.11ax20
CH52



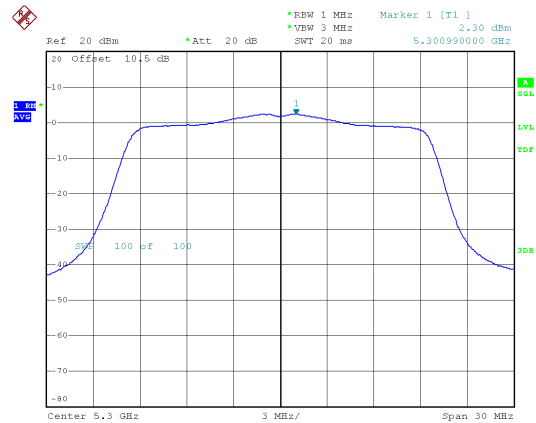
ANT B
Modulation Type: 802.11ax20
CH52



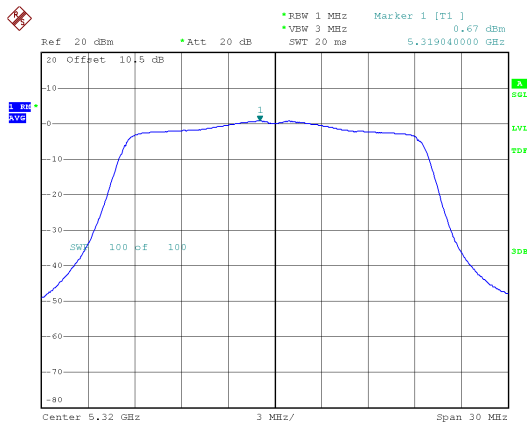
CH60



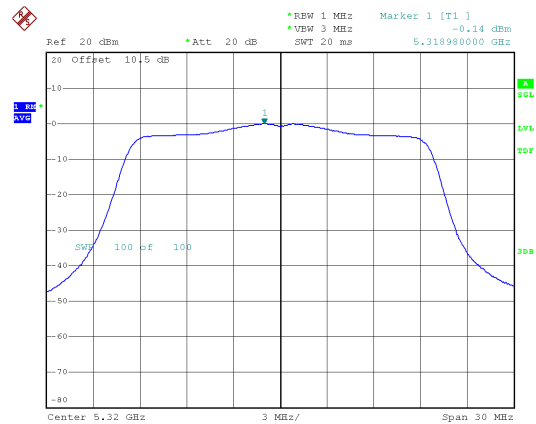
CH60



CH64

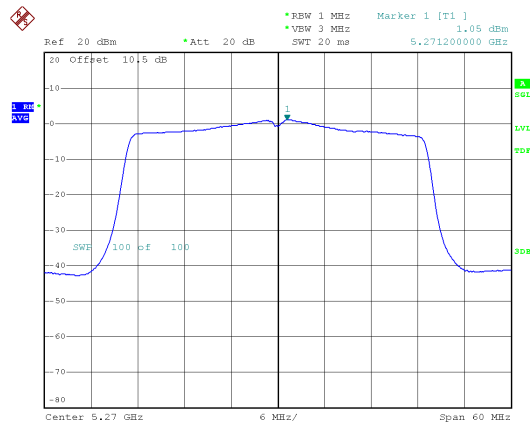


CH64

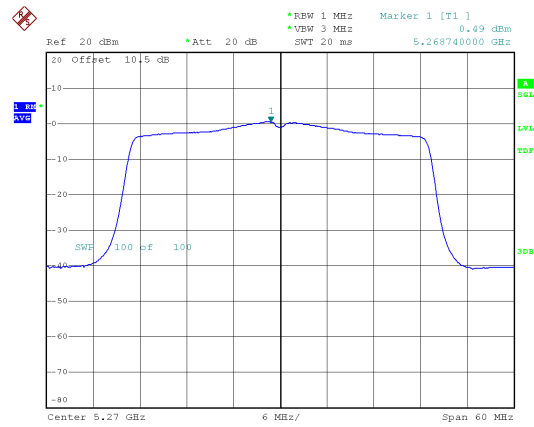




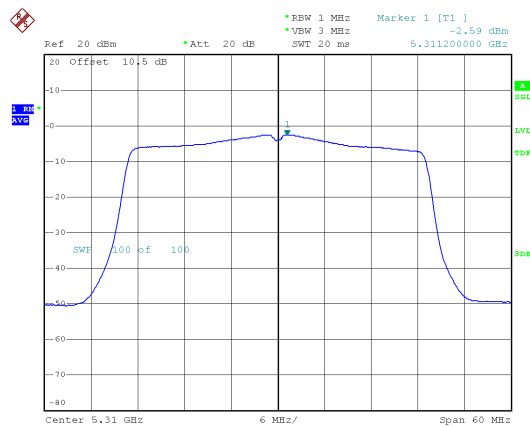
MIMO
ANT A
Modulation Type: 802.11ax40
CH54



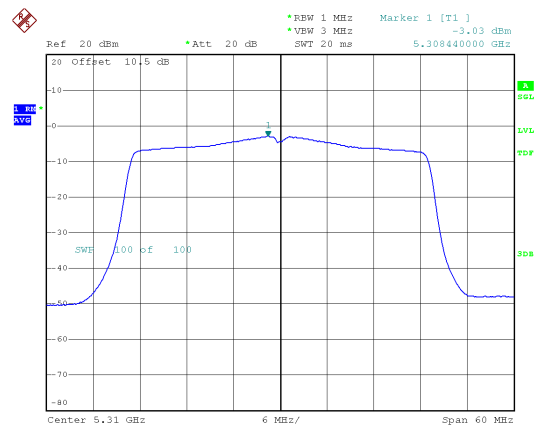
ANT B
Modulation Type: 802.11ax40
CH54



CH62

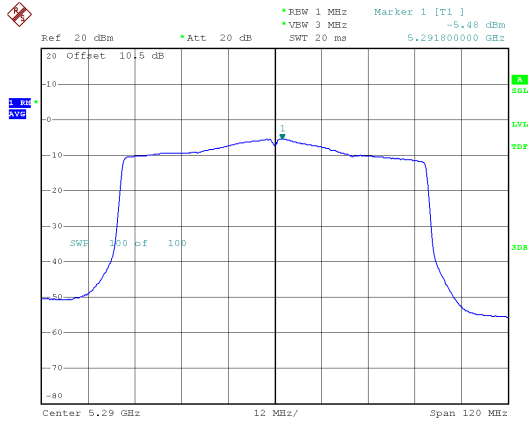


CH62

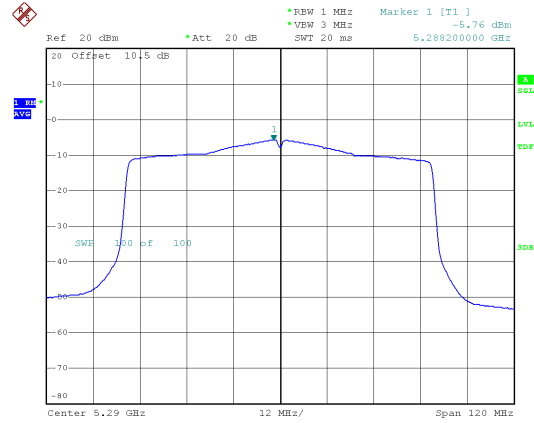




MIMO
ANT A
Modulation Type: 802.11ax80
CH58

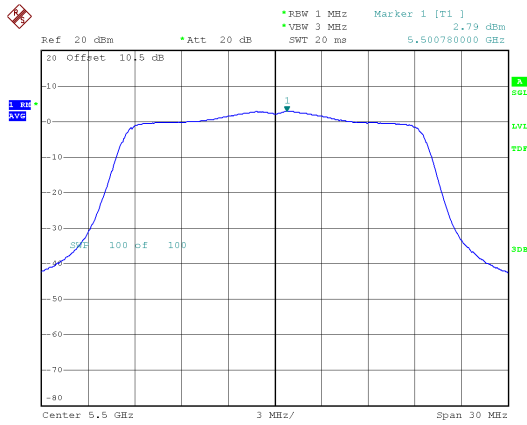


ANT B
Modulation Type: 802.11ax80
CH58

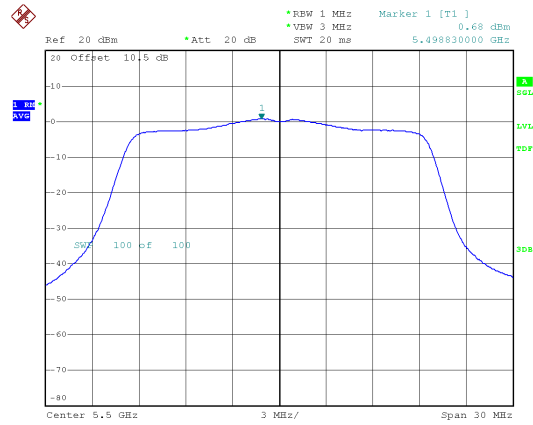




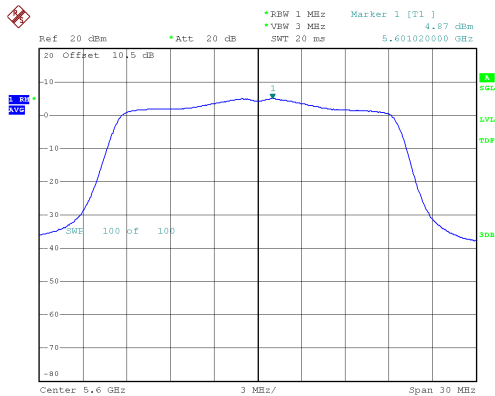
MIMO
ANT A
Modulation Type: 802.11ax20
CH100



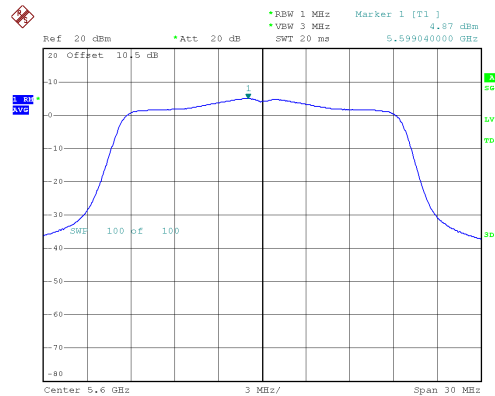
ANT A
Modulation Type: 802.11ax20
CH100



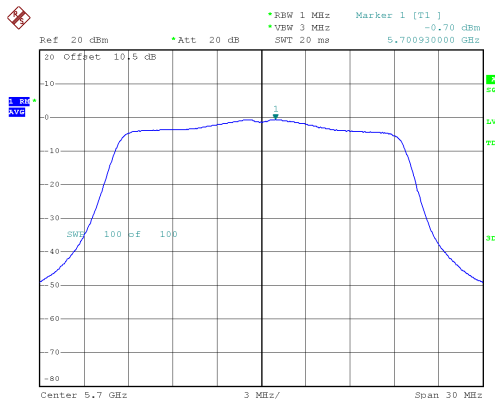
CH120



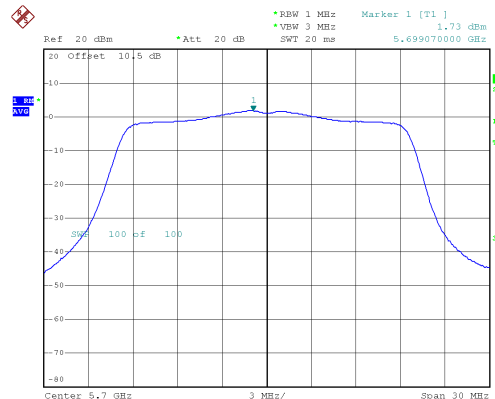
CH120



CH140

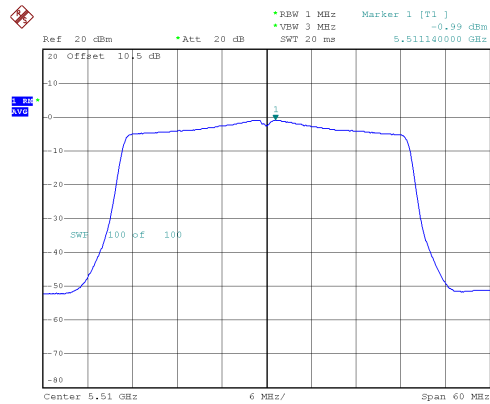


CH140

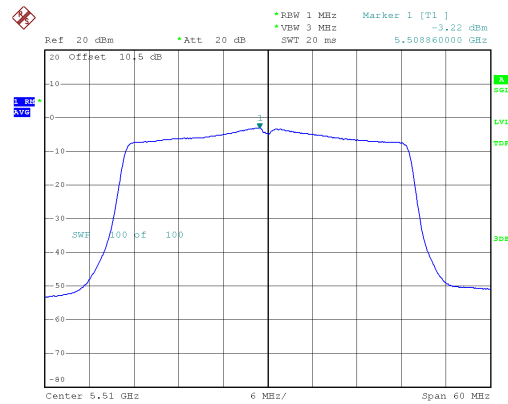




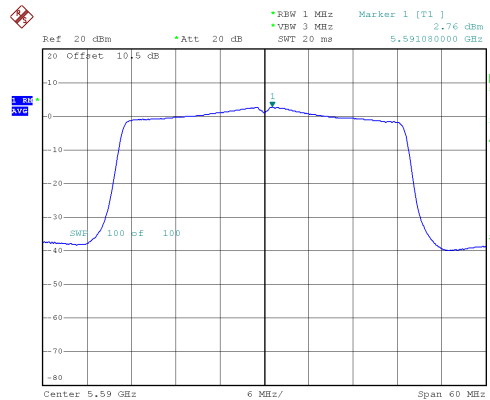
MIMO
ANT A
Modulation Type: 802.11ax40
CH102



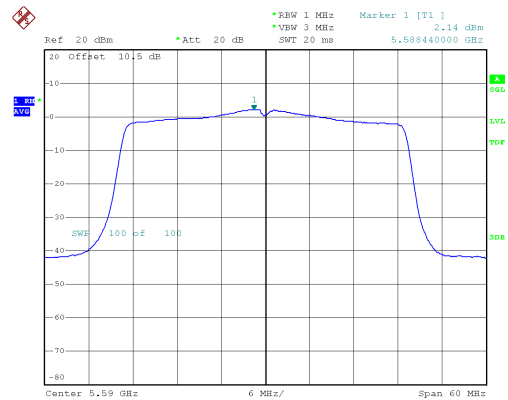
ANT B
Modulation Type: 802.11ax40
CH102



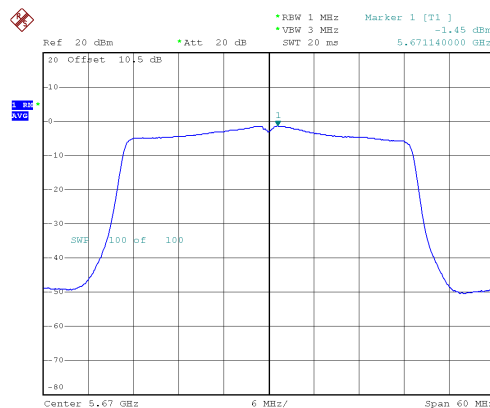
CH118



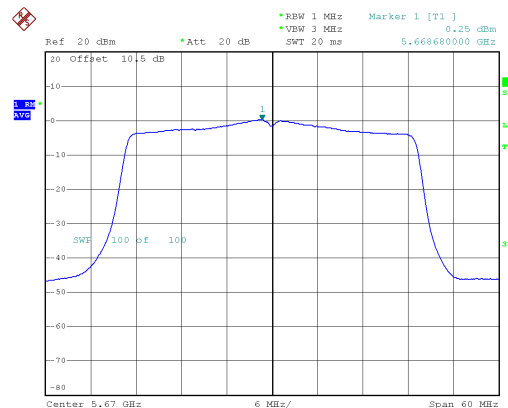
CH118



CH134

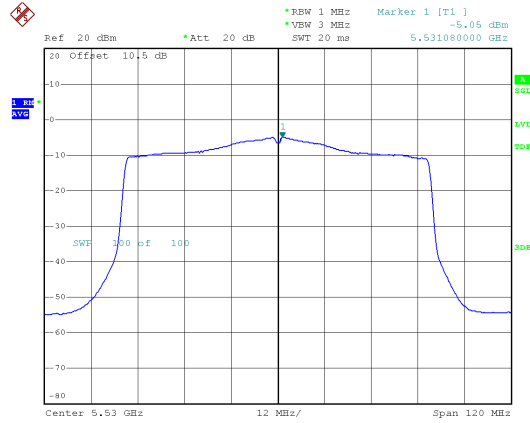


CH134

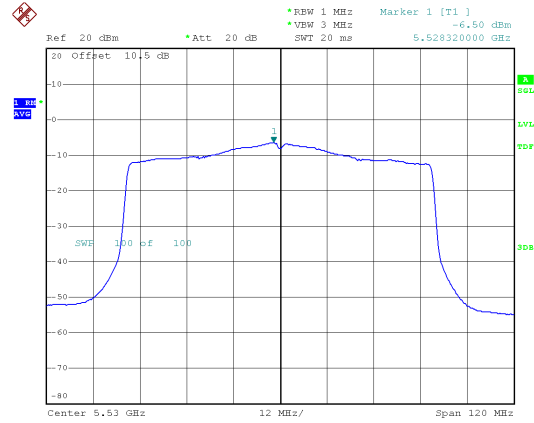




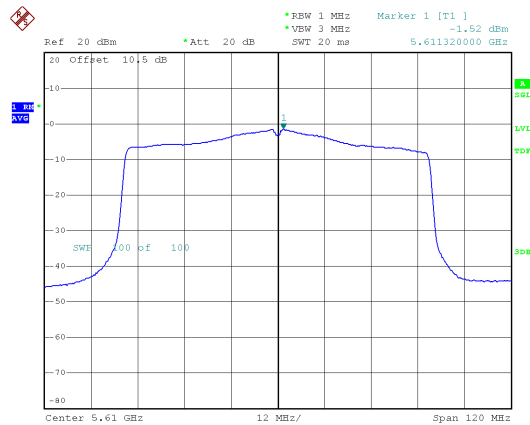
MIMO
ANT A
Modulation Type: 802.11ax80
CH106



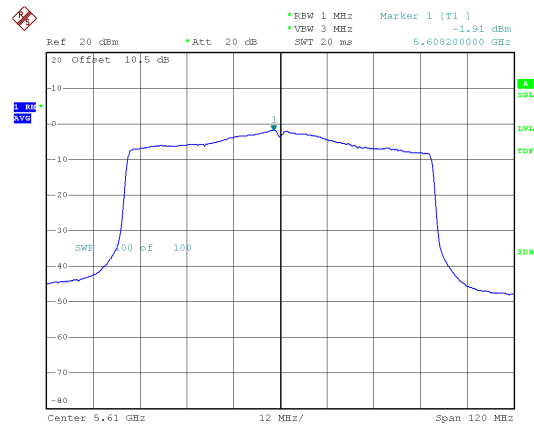
ANT B
Modulation Type: 802.11ax80
CH106



CH122

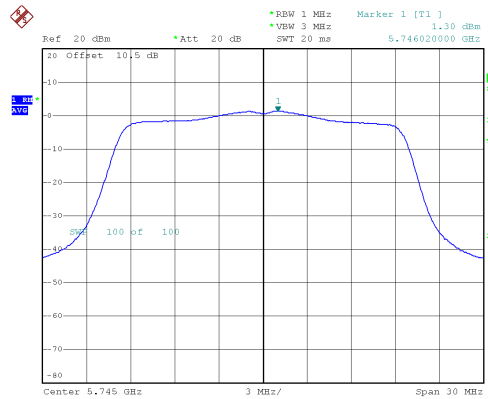


CH122

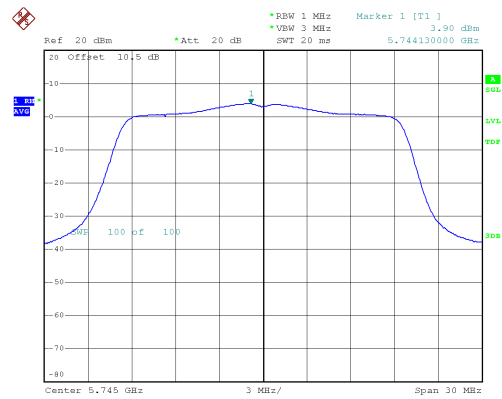




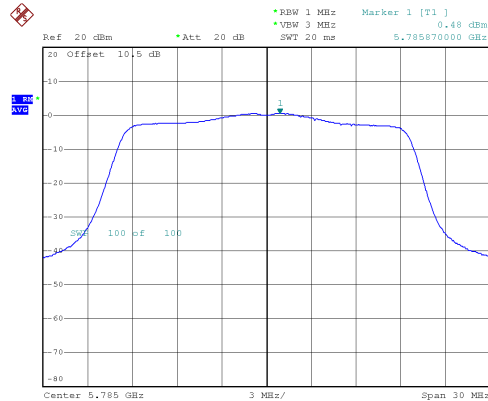
MIMO
ANT A
Modulation Type: 802.11ax20
CH149



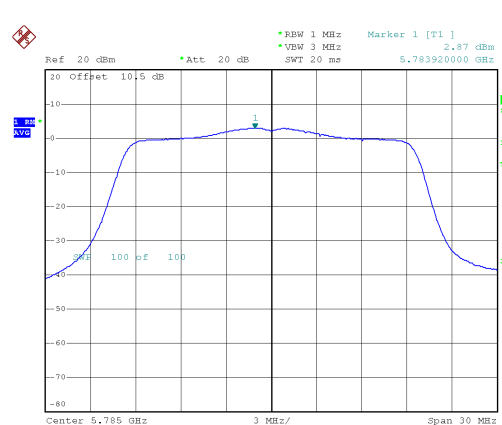
ANT B
Modulation Type: 802.11ax20
CH149



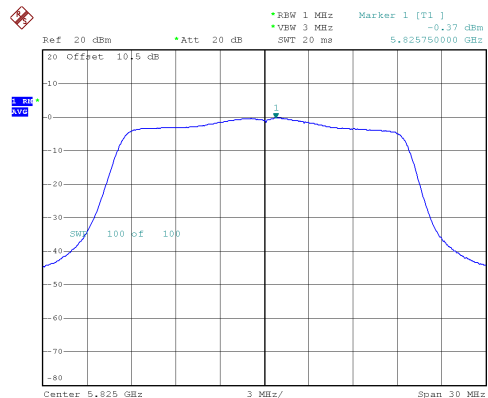
CH157



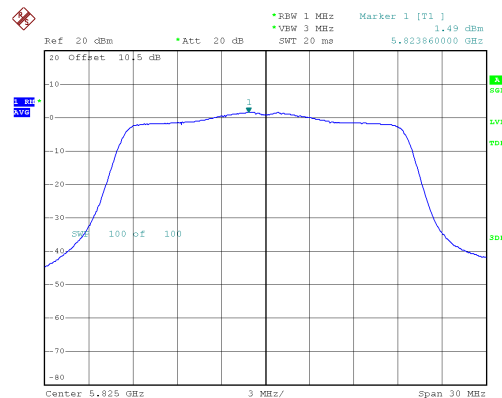
CH157



CH165

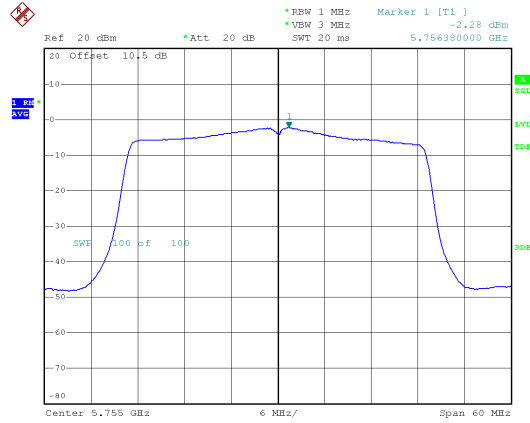


CH165

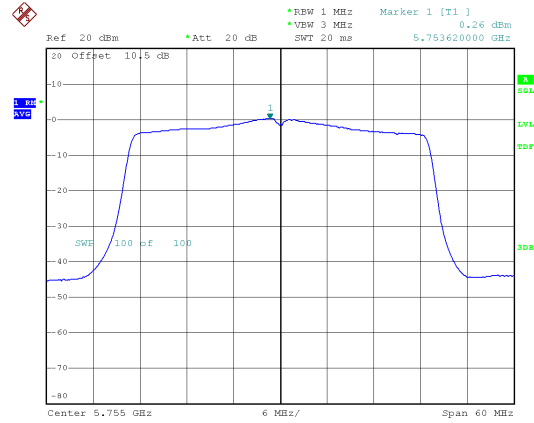




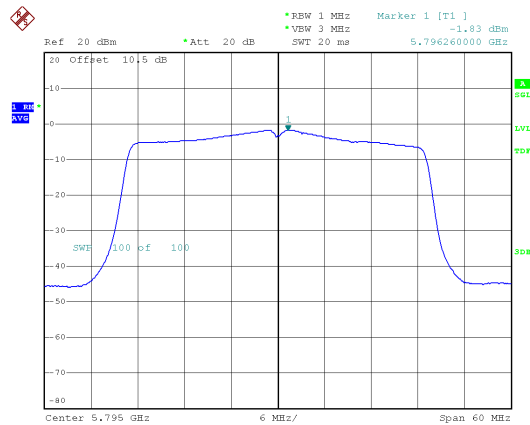
MIMO
ANT A
Modulation Type: 802.11ax40
CH151



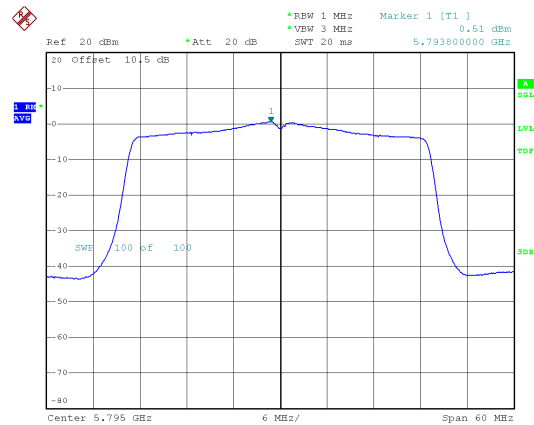
ANT B
Modulation Type: 802.11ax40
CH151



CH159

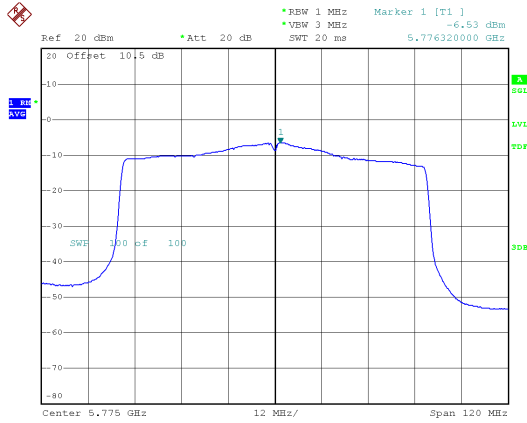


CH159

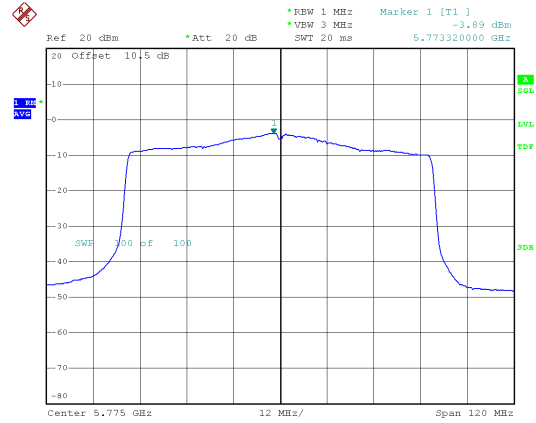




MIMO
ANT A
Modulation Type: 802.11ax80
CH155



ANT B
Modulation Type: 802.11ax80
CH155



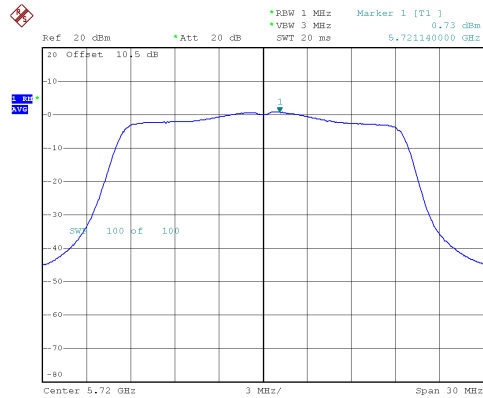


Straddle Channel

MIMO

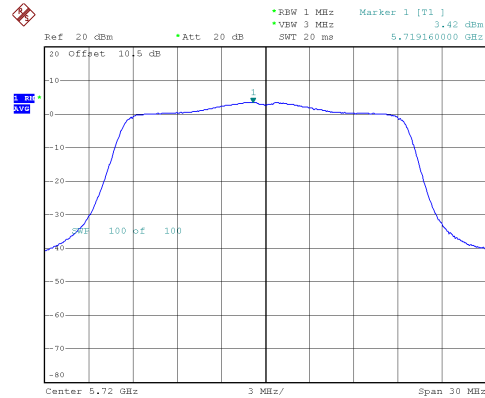
ANT A

Modulation Type: 802.11ax20
CH144

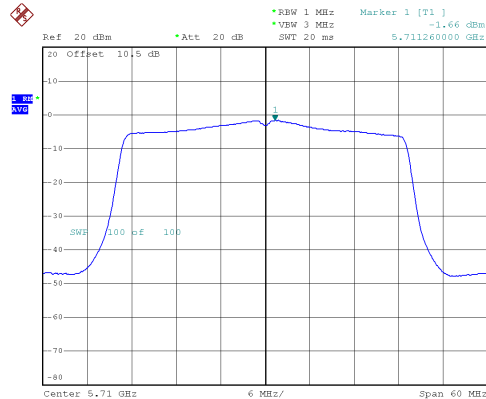


ANT B

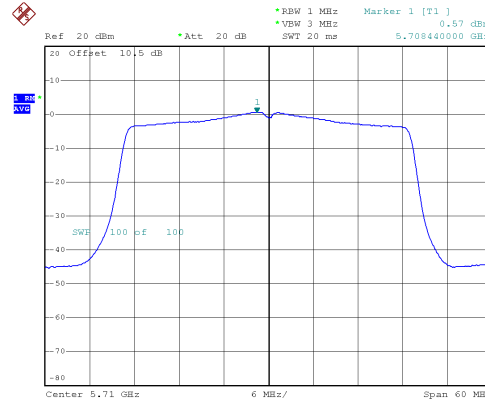
Modulation Type: 802.11ax20
CH144



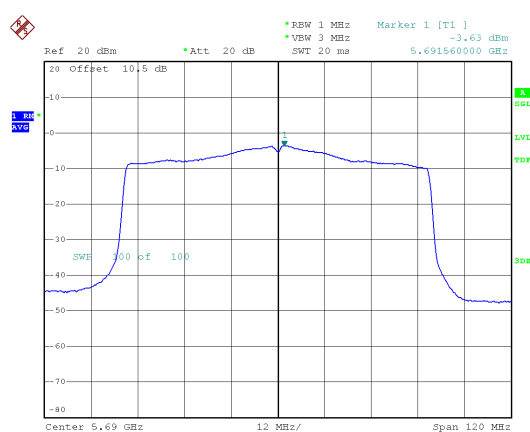
Modulation Type: 802.11ax40
CH142



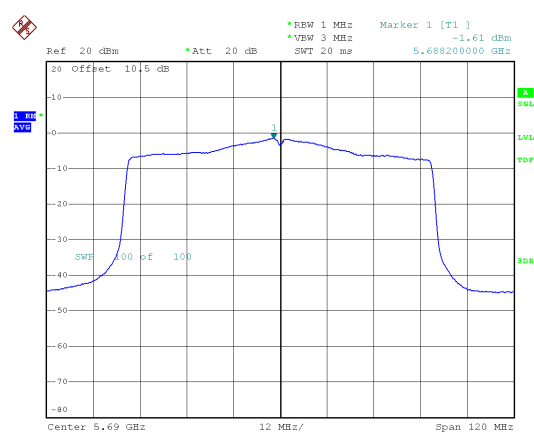
Modulation Type: 802.11ax40
CH142



Modulation Type: 802.11ax80
CH138

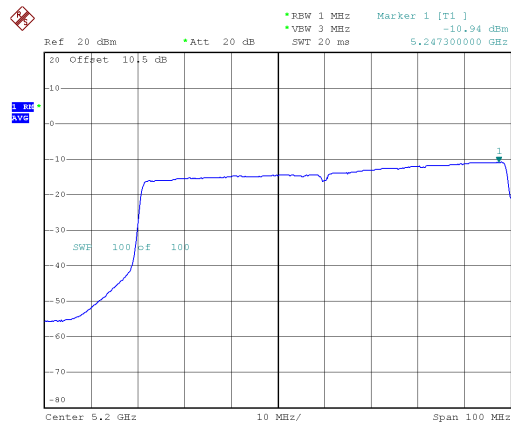


Modulation Type: 802.11ax80
CH138

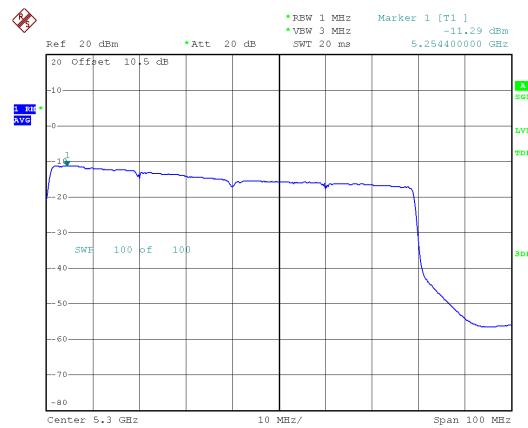
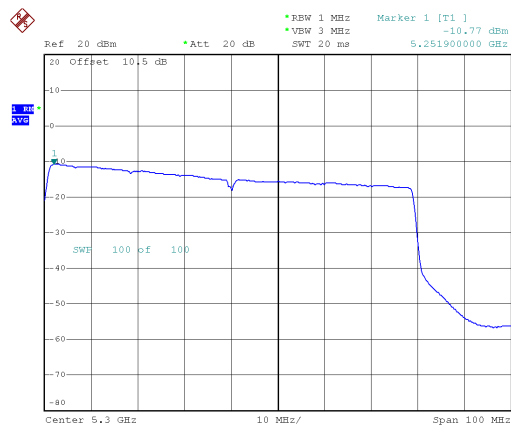
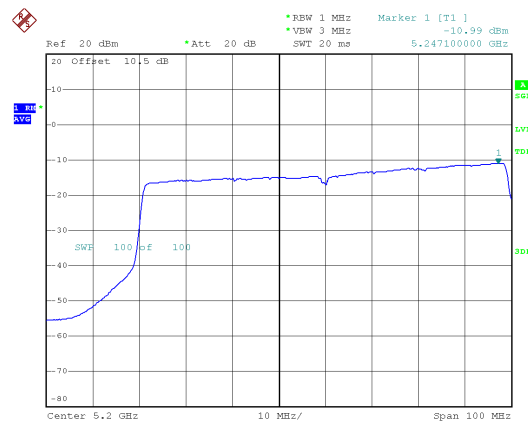




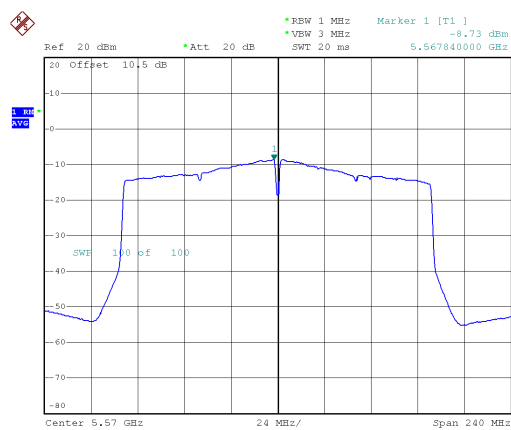
MIMO
ANT A
Modulation Type: 802.11ax160
CH50



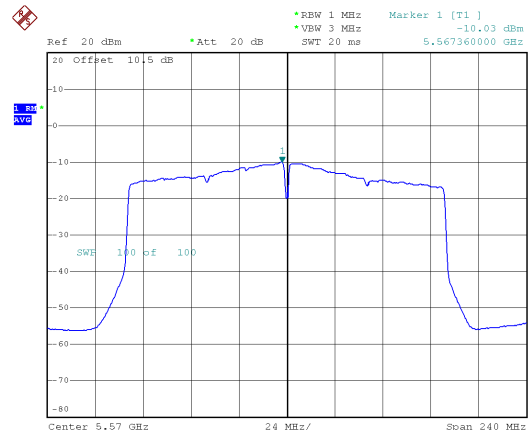
ANT B
Modulation Type: 802.11ax160
CH50



CH114



CH114



-----THE END OF REPORT-----