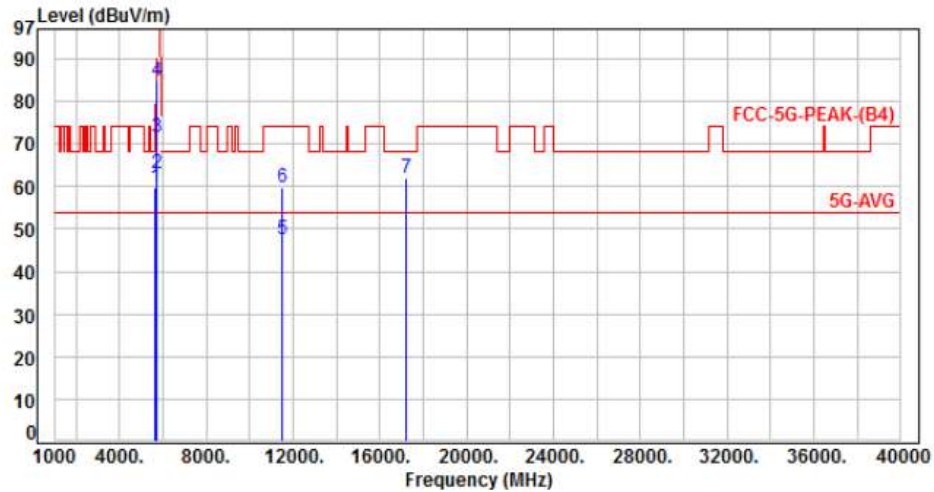




Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 4, CH149		:

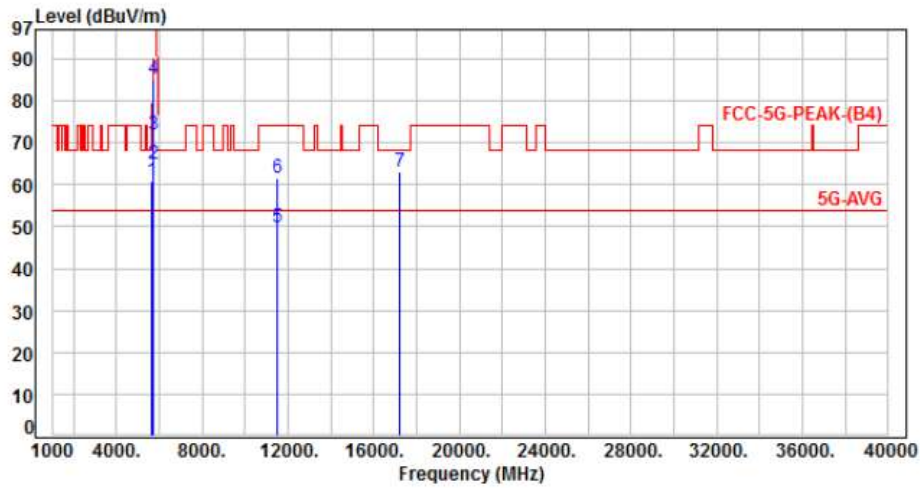


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	65.20	59.84	68.20	-8.36	Peak	100	271	P
2	5700.00	-5.46	68.70	63.24	105.20	-41.96	Peak	100	271	P
3	5720.00	-5.47	76.91	71.44	110.80	-39.36	Peak	100	271	P
4	5725.00	-5.46	90.30	84.84	122.20	-37.36	Peak	100	271	P
5	11490.00	3.91	43.53	47.44	54.00	-6.56	Average	100	159	P
6	11490.00	3.91	55.90	59.81	74.00	-14.19	Peak	100	159	P
7	17235.00	14.91	47.23	62.14	68.20	-6.06	Peak	110	182	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 4, CH149		:

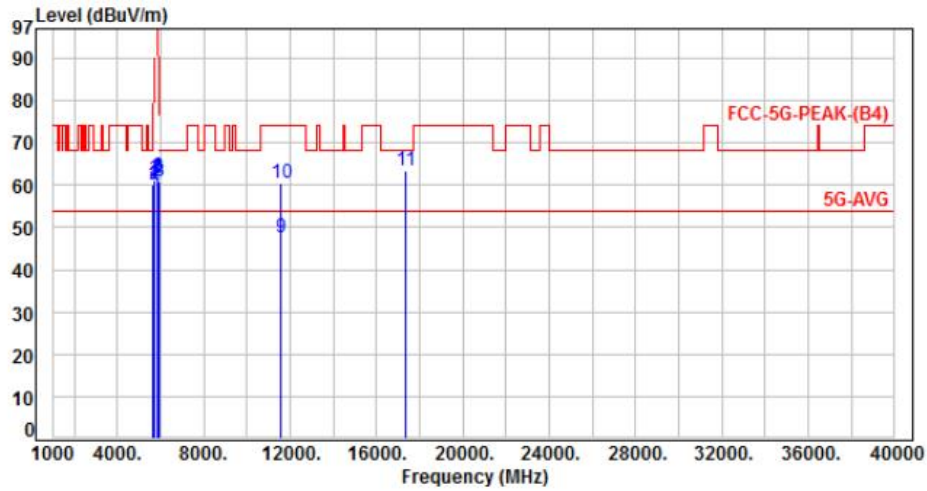


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	66.20	60.84	68.20	-7.36	Peak	190	304	P
2	5700.00	-5.46	70.20	64.74	105.20	-40.46	Peak	190	304	P
3	5720.00	-5.47	77.31	71.84	110.80	-38.96	Peak	190	304	P
4	5725.00	-5.46	90.80	85.34	122.20	-36.86	Peak	190	304	P
5	11490.00	3.91	45.90	49.81	54.00	-4.19	Average	100	344	P
6	11490.00	3.91	57.70	61.61	74.00	-12.39	Peak	100	344	P
7	17235.00	14.91	48.20	63.11	68.20	-5.09	Peak	100	336	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 4, CH157		:

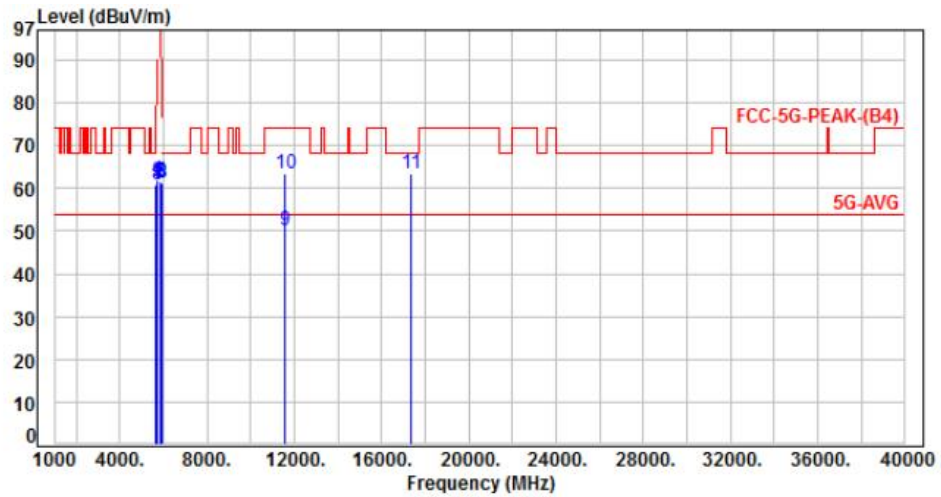


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	65.60	60.24	68.20	-7.96	Peak	100	262	P
2	5700.00	-5.46	65.40	59.94	105.20	-45.26	Peak	100	262	P
3	5720.00	-5.47	66.61	61.14	110.80	-49.66	Peak	100	262	P
4	5725.00	-5.46	65.48	60.02	122.20	-62.18	Peak	100	262	P
5	5850.00	-5.36	66.90	61.54	122.20	-60.66	Peak	100	262	P
6	5855.00	-5.33	67.19	61.86	110.80	-48.94	Peak	100	262	P
7	5875.00	-5.26	66.36	61.10	105.20	-44.10	Peak	100	262	P
8	5925.00	-5.15	66.10	60.95	68.20	-7.25	Peak	100	262	P
9	11570.00	4.26	43.21	47.47	54.00	-6.53	Average	100	167	P
10	11570.00	4.26	56.39	60.65	74.00	-13.35	Peak	100	167	P
11	17355.00	15.64	47.96	63.60	68.20	-4.60	Peak	100	175	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 4, CH157		:

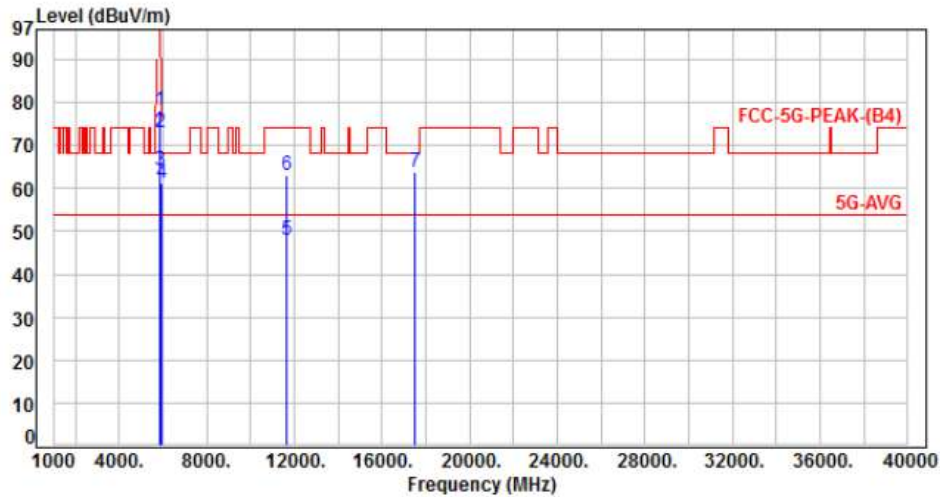


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	66.21	60.85	68.20	-7.35	Peak	100	220	P
2	5700.00	-5.46	66.90	61.44	105.20	-43.76	Peak	100	220	P
3	5720.00	-5.47	66.42	60.95	110.80	-49.85	Peak	100	220	P
4	5725.00	-5.46	67.30	61.84	122.20	-60.36	Peak	100	220	P
5	5850.00	-5.36	66.89	61.53	122.20	-60.67	Peak	100	220	P
6	5855.00	-5.33	66.57	61.24	110.80	-49.56	Peak	100	220	P
7	5875.00	-5.26	66.30	61.04	105.20	-44.16	Peak	100	220	P
8	5925.00	-5.15	66.25	61.10	68.20	-7.10	Peak	100	220	P
9	11570.00	4.26	45.85	50.11	54.00	-3.89	Average	100	301	P
10	11570.00	4.26	59.24	63.50	74.00	-10.50	Peak	100	301	P
11	17355.00	15.64	47.65	63.29	68.20	-4.91	Peak	100	305	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, Band 4, CH165		:

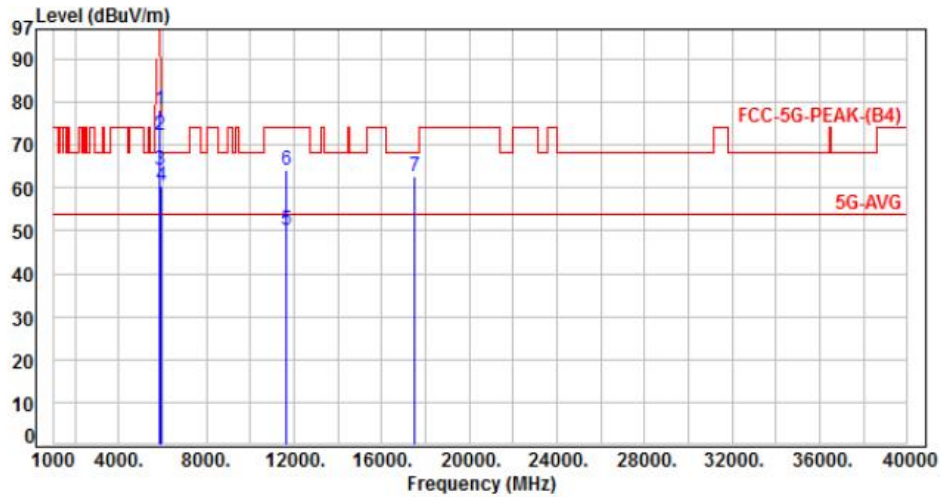


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.36	83.60	78.24	122.20	-43.96	Peak	100	242	P
2	5855.00	-5.33	78.29	72.96	110.80	-37.84	Peak	100	242	P
3	5875.00	-5.26	69.61	64.35	105.20	-40.85	Peak	100	242	P
4	5925.00	-5.15	66.35	61.20	68.20	-7.00	Peak	100	242	P
5	11650.00	4.47	43.57	48.04	54.00	-5.96	Average	116	212	P
6	11650.00	4.47	58.50	62.97	74.00	-11.03	Peak	116	212	P
7	17475.00	16.59	47.19	63.78	68.20	-4.42	Peak	100	168	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, Band 4, CH165		:

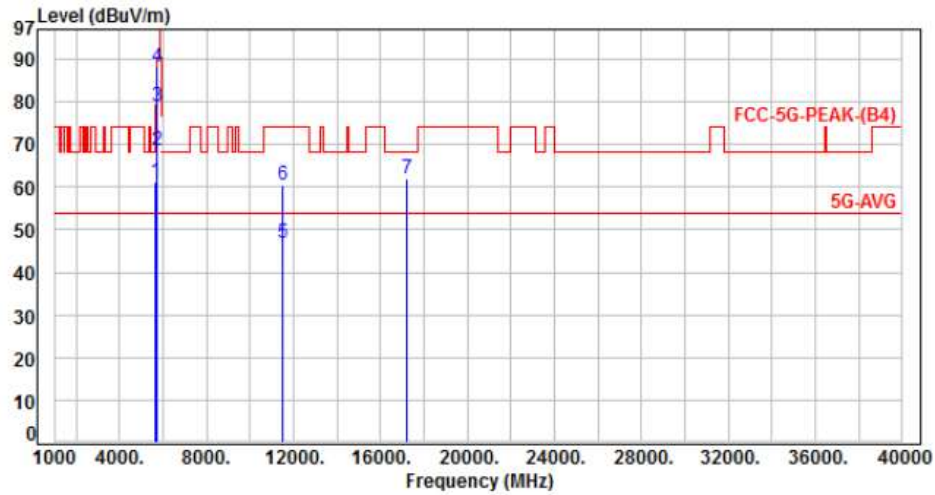


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.36	83.50	78.14	122.20	-44.06	Peak	100	224	P
2	5855.00	-5.33	77.69	72.36	110.80	-38.44	Peak	100	224	P
3	5875.00	-5.26	69.40	64.14	105.20	-41.06	Peak	100	224	P
4	5925.00	-5.15	65.70	60.55	68.20	-7.65	Peak	100	224	P
5	11650.00	4.47	45.60	50.07	54.00	-3.93	Average	100	293	P
6	11650.00	4.47	59.80	64.27	74.00	-9.73	Peak	100	293	P
7	17475.00	16.59	46.19	62.78	68.20	-5.42	Peak	100	334	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 4, CH149		:

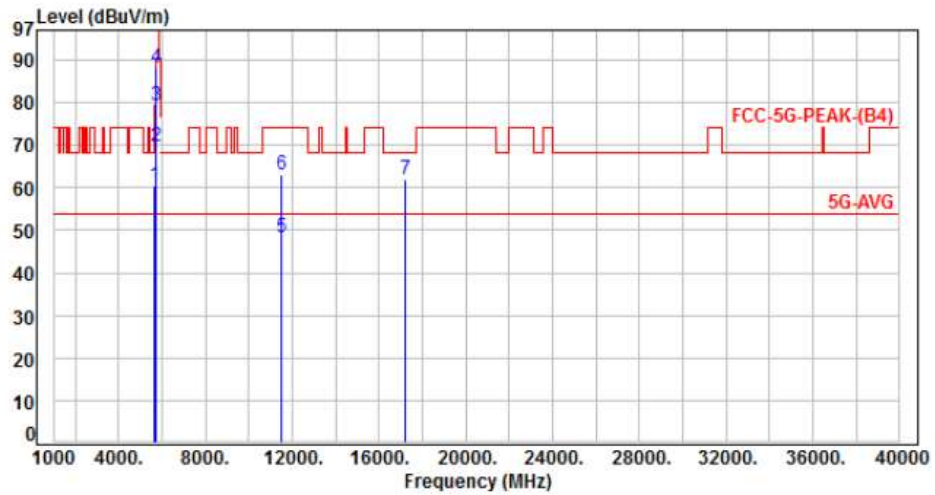


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	66.70	61.34	68.20	-6.86	Peak	100	245	P
2	5700.00	-5.46	74.20	68.74	105.20	-36.46	Peak	100	245	P
3	5720.00	-5.47	84.51	79.04	110.80	-31.76	Peak	100	245	P
4	5725.00	-5.46	93.60	88.14	122.20	-34.06	Peak	100	245	P
5	11490.00	3.91	42.81	46.72	54.00	-7.28	Average	100	158	P
6	11490.00	3.91	56.70	60.61	74.00	-13.39	Peak	100	158	P
7	17235.00	14.91	46.95	61.86	68.20	-6.34	Peak	100	166	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 4, CH149		:

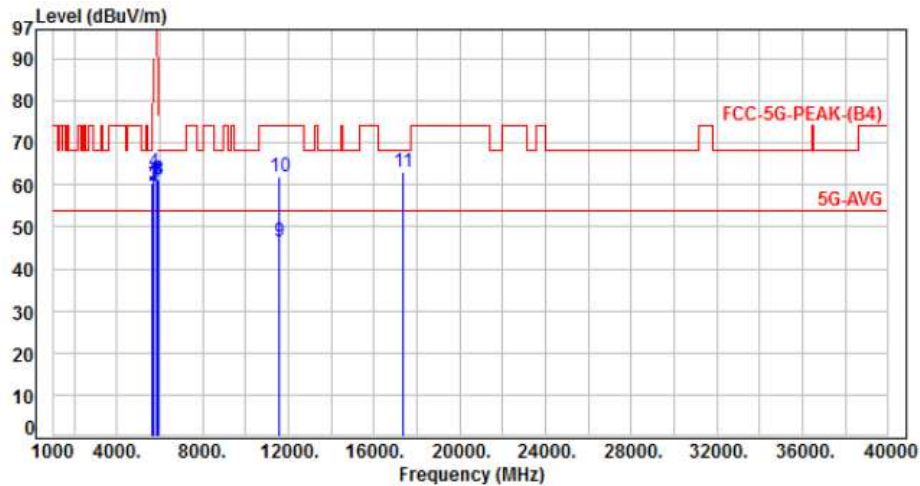


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	65.99	60.63	68.20	-7.57	Peak	100	297	P
2	5700.00	-5.46	75.20	69.74	105.20	-35.46	Peak	100	297	P
3	5720.00	-5.47	84.61	79.14	110.80	-31.66	Peak	100	297	P
4	5725.00	-5.46	93.70	88.24	122.20	-33.96	Peak	100	297	P
5	11490.00	3.91	44.31	48.22	54.00	-5.78	Average	100	295	P
6	11490.00	3.91	59.20	63.11	74.00	-10.89	Peak	100	295	P
7	17235.00	14.91	47.21	62.12	68.20	-6.08	Peak	100	325	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 4, CH157		

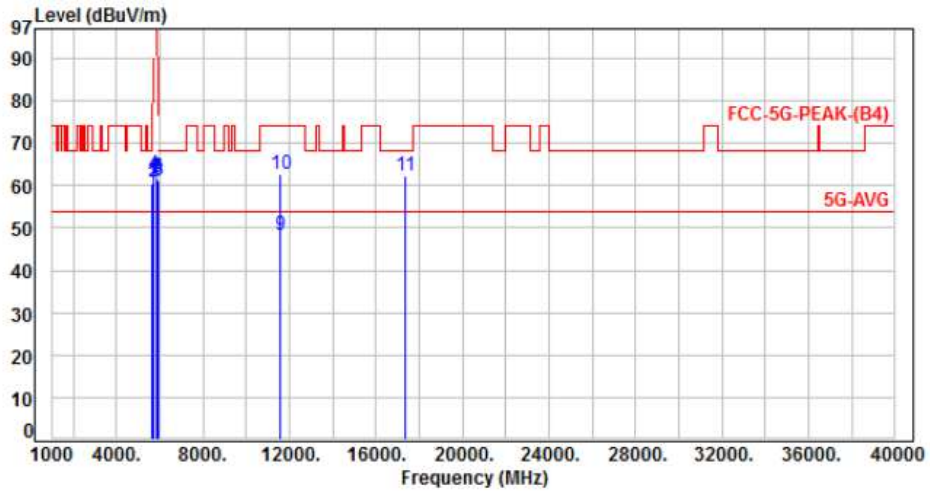


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	65.90	60.54	68.20	-7.66	Peak	100	247	P
2	5700.00	-5.46	65.22	59.76	105.20	-45.44	Peak	100	247	P
3	5720.00	-5.47	65.61	60.14	110.80	-50.66	Peak	100	247	P
4	5725.00	-5.46	68.40	62.94	122.20	-59.26	Peak	100	247	P
5	5850.00	-5.36	66.45	61.09	122.20	-61.11	Peak	100	247	P
6	5855.00	-5.33	66.46	61.13	110.80	-49.67	Peak	100	247	P
7	5875.00	-5.26	65.91	60.65	105.20	-44.55	Peak	100	247	P
8	5925.00	-5.15	66.36	61.21	68.20	-6.99	Peak	100	247	P
9	11570.00	4.26	42.24	46.50	54.00	-7.50	Average	106	211	P
10	11570.00	4.26	57.59	61.85	74.00	-12.15	Peak	106	211	P
11	17355.00	15.64	47.26	62.90	68.20	-5.30	Peak	100	153	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 4, CH157		:

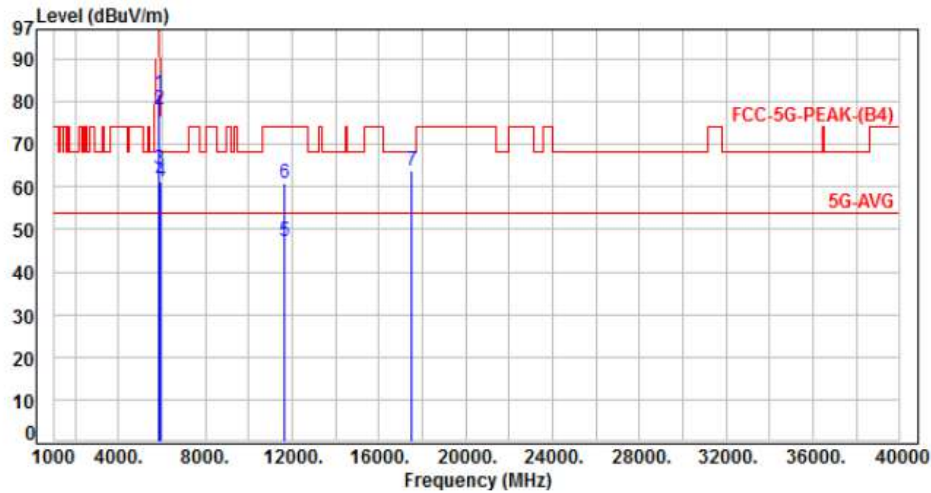


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	65.80	60.44	68.20	-7.76	Peak	100	295	P
2	5700.00	-5.46	66.20	60.74	105.20	-44.46	Peak	100	295	P
3	5720.00	-5.47	66.24	60.77	110.80	-50.03	Peak	100	295	P
4	5725.00	-5.46	68.10	62.64	122.20	-59.56	Peak	100	295	P
5	5850.00	-5.36	67.40	62.04	122.20	-60.16	Peak	100	295	P
6	5855.00	-5.33	67.11	61.78	110.80	-49.02	Peak	100	295	P
7	5875.00	-5.26	66.89	61.63	105.20	-43.57	Peak	100	295	P
8	5925.00	-5.15	66.40	61.25	68.20	-6.95	Peak	100	295	P
9	11570.00	4.26	44.22	48.48	54.00	-5.52	Average	100	294	P
10	11570.00	4.26	58.49	62.75	74.00	-11.25	Peak	100	294	P
11	17355.00	15.64	46.58	62.22	68.20	-5.98	Peak	100	312	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, Band 4, CH165		:

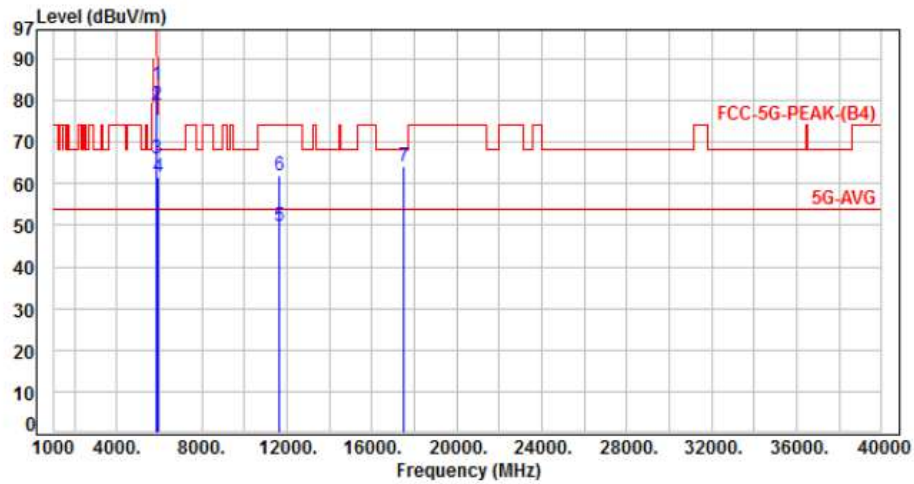


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.36	87.20	81.84	122.20	-40.36	Peak	105	241	P
2	5855.00	-5.33	83.69	78.36	110.80	-32.44	Peak	105	241	P
3	5875.00	-5.26	69.40	64.14	105.20	-41.06	Peak	105	241	P
4	5925.00	-5.15	66.45	61.30	68.20	-6.90	Peak	105	241	P
5	11650.00	4.47	42.88	47.35	54.00	-6.65	Average	100	251	P
6	11650.00	4.47	56.25	60.72	74.00	-13.28	Peak	100	251	P
7	17475.00	16.59	47.22	63.81	68.20	-4.39	Peak	100	158	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, Band 4, CH165		:

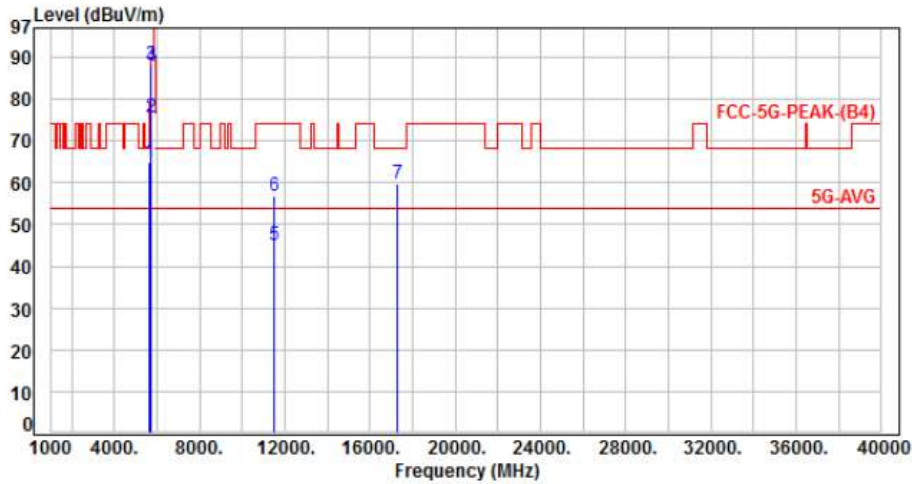


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5850.00	-5.36	89.20	83.84	122.20	-38.36	Peak	100	228	P
2	5855.00	-5.33	84.29	78.96	110.80	-31.84	Peak	100	228	P
3	5875.00	-5.26	71.30	66.04	105.20	-39.16	Peak	100	228	P
4	5925.00	-5.15	66.65	61.50	68.20	-6.70	Peak	100	228	P
5	11650.00	4.47	45.36	49.83	54.00	-4.17	Average	100	298	P
6	11650.00	4.47	57.47	61.94	74.00	-12.06	Peak	100	298	P
7	17475.00	16.59	47.62	64.21	68.20	-3.99	Peak	100	326	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 4, CH151		:

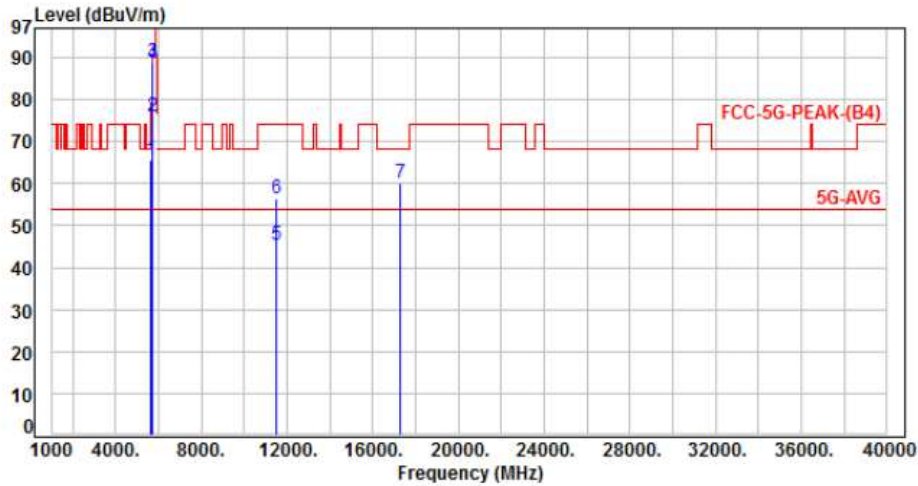


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	70.20	64.84	68.20	-3.36	Peak	102	250	P
2	5700.00	-5.46	81.00	75.54	105.20	-29.66	Peak	102	250	P
3	5720.00	-5.47	93.71	88.24	110.80	-22.56	Peak	102	250	P
4	5725.00	-5.46	93.20	87.74	122.20	-34.46	Peak	102	250	P
5	11510.00	3.98	40.85	44.83	54.00	-9.17	Average	100	160	P
6	11510.00	3.98	52.80	56.78	74.00	-17.22	Peak	100	160	P
7	17265.00	15.07	44.68	59.75	68.20	-8.45	Peak	100	153	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 4, CH151		:

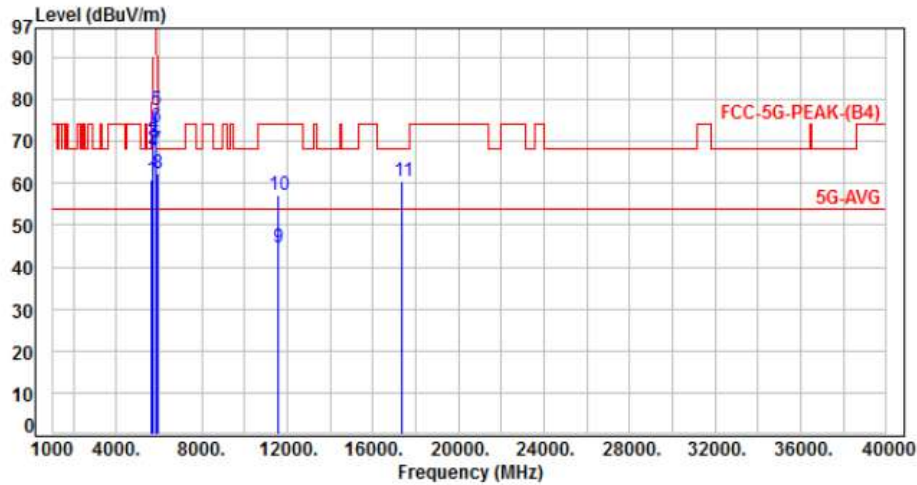


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	70.90	65.54	68.20	-2.66	Peak	100	214	P
2	5700.00	-5.46	81.50	76.04	105.20	-29.16	Peak	100	214	P
3	5720.00	-5.47	94.51	89.04	110.80	-21.76	Peak	100	214	P
4	5725.00	-5.46	94.10	88.64	122.20	-33.56	Peak	100	214	P
5	11510.00	3.98	41.22	45.20	54.00	-8.80	Average	100	300	P
6	11510.00	3.98	52.60	56.58	74.00	-17.42	Peak	100	300	P
7	17265.00	15.07	45.11	60.18	68.20	-8.02	Peak	100	293	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, Band 4, CH159		

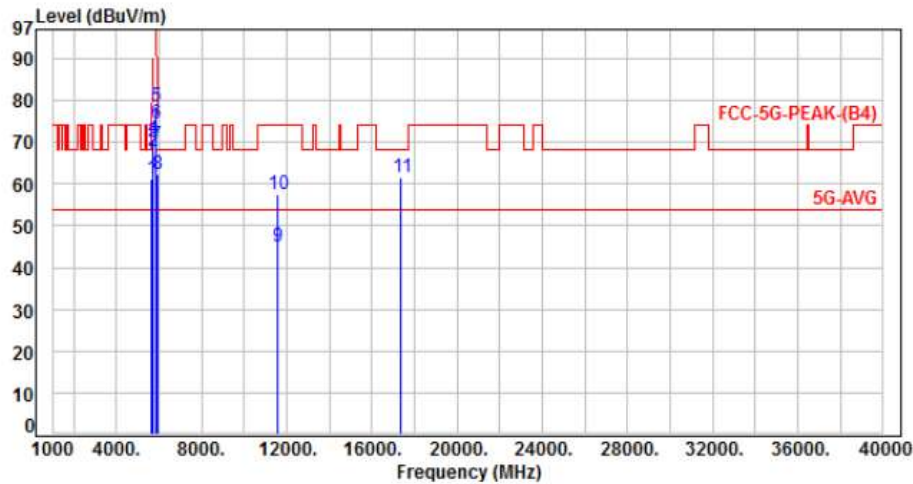


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	66.25	60.89	68.20	-7.31	Peak	100	246	P
2	5700.00	-5.46	73.60	68.14	105.20	-37.06	Peak	100	246	P
3	5720.00	-5.47	75.61	70.14	110.80	-40.66	Peak	100	246	P
4	5725.00	-5.46	76.90	71.44	122.20	-50.76	Peak	100	246	P
5	5850.00	-5.36	82.80	77.44	122.20	-44.76	Peak	100	246	P
6	5855.00	-5.33	78.89	73.56	110.80	-37.24	Peak	100	246	P
7	5875.00	-5.26	73.23	67.97	105.20	-37.23	Peak	100	246	P
8	5925.00	-5.15	67.36	62.21	68.20	-5.99	Peak	100	246	P
9	11590.00	4.34	40.33	44.67	54.00	-9.33	Average	100	185	P
10	11590.00	4.34	52.65	56.99	74.00	-17.01	Peak	100	185	P
11	17385.00	15.86	44.67	60.53	68.20	-7.67	Peak	100	166	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, Band 4, CH159		:

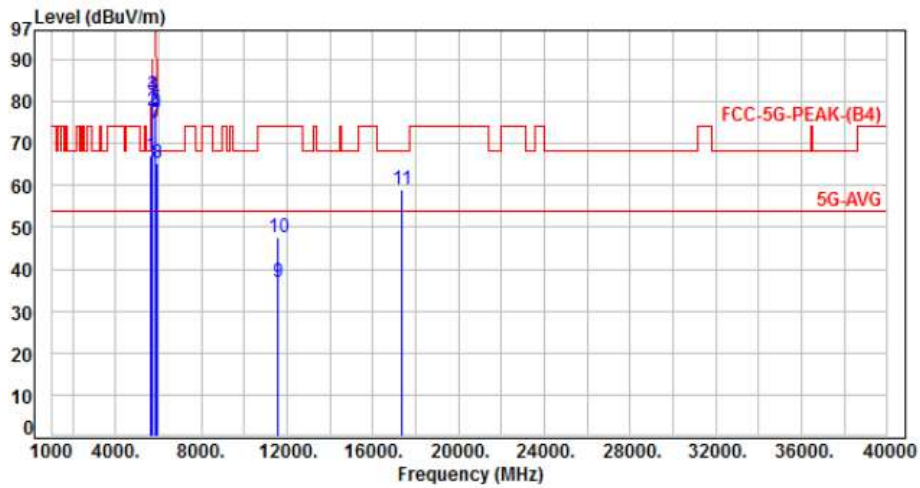


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	66.60	61.24	68.20	-6.96	Peak	100	216	P
2	5700.00	-5.46	73.40	67.94	105.20	-37.26	Peak	100	216	P
3	5720.00	-5.47	75.61	70.14	110.80	-40.66	Peak	100	216	P
4	5725.00	-5.46	76.30	70.84	122.20	-51.36	Peak	100	216	P
5	5850.00	-5.36	83.98	78.62	122.20	-43.58	Peak	100	216	P
6	5855.00	-5.33	79.99	74.66	110.80	-36.14	Peak	100	216	P
7	5875.00	-5.26	74.72	69.46	105.20	-35.74	Peak	100	216	P
8	5925.00	-5.15	67.31	62.16	68.20	-6.04	Peak	100	216	P
9	11590.00	4.34	40.64	44.98	54.00	-9.02	Average	100	283	P
10	11590.00	4.34	53.22	57.56	74.00	-16.44	Peak	100	283	P
11	17385.00	15.86	45.66	61.52	68.20	-6.68	Peak	100	321	P

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



Power	: DC 5V from system	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, Band 4, CH155		:

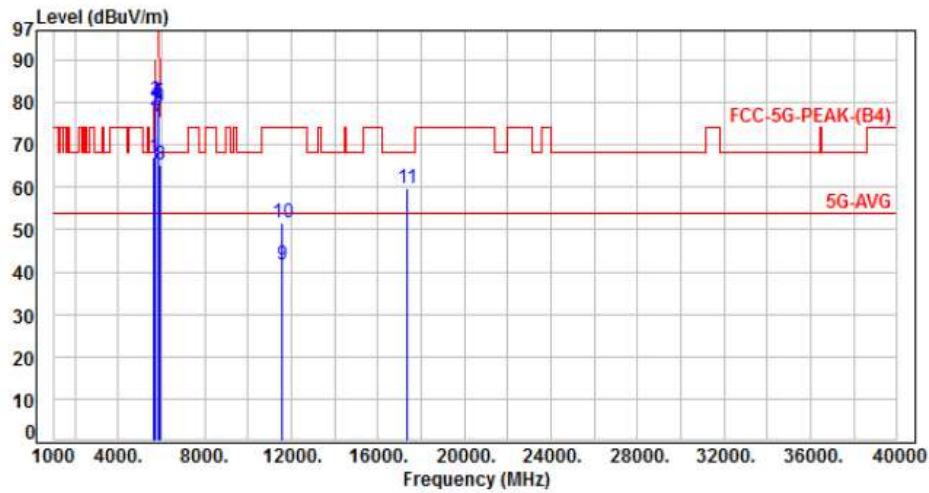


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	5650.00	-5.36	72.43	67.07	68.20	-1.13	Peak	100	252	P
2	5700.00	-5.46	83.20	77.74	105.20	-27.46	Peak	100	252	P
3	5720.00	-5.47	86.81	81.34	110.80	-29.46	Peak	100	252	P
4	5725.00	-5.46	86.90	81.44	122.20	-40.76	Peak	100	252	P
5	5850.00	-5.36	83.56	78.20	122.20	-44.00	Peak	100	252	P
6	5855.00	-5.33	82.89	77.56	110.80	-33.24	Peak	100	252	P
7	5875.00	-5.26	80.12	74.86	105.20	-30.34	Peak	100	252	P
8	5925.00	-5.15	70.30	65.15	68.20	-3.05	Peak	100	252	P
9	11550.00	4.16	32.90	37.06	54.00	-16.94	Average	100	173	P
10	11550.00	4.16	43.54	47.70	74.00	-26.30	Peak	100	173	P
11	17325.00	15.43	43.68	59.11	68.20	-9.09	Peak	100	167	P

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



Power	: DC 5V from system	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, Band 4, CH155		:



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	-5.36	72.50	67.14	68.20	-1.06	Peak	100	211	P
2	5700.00	-5.46	83.80	78.34	105.20	-26.86	Peak	100	211	P
3	5720.00	-5.47	85.91	80.44	110.80	-30.36	Peak	100	211	P
4	5725.00	-5.46	85.52	80.06	122.20	-42.14	Peak	100	211	P
5	5850.00	-5.36	85.40	80.04	122.20	-42.16	Peak	100	211	P
6	5855.00	-5.33	84.29	78.96	110.80	-31.84	Peak	100	211	P
7	5875.00	-5.26	81.83	76.57	105.20	-28.63	Peak	100	211	P
8	5925.00	-5.15	70.60	65.45	68.20	-2.75	Peak	100	211	P
9	11550.00	4.16	37.56	41.72	54.00	-12.28	Average	100	292	P
10	11550.00	4.16	47.60	51.76	74.00	-22.24	Peak	100	292	P
11	17325.00	15.43	44.30	59.73	68.20	-8.47	Peak	100	305	P

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



6.7. Restricted Bands of Operation

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

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

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



7. On Time, Duty Cycle and Measurement methods

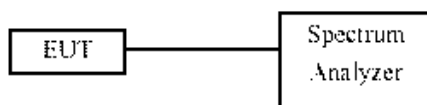
7.1. Test Limit

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

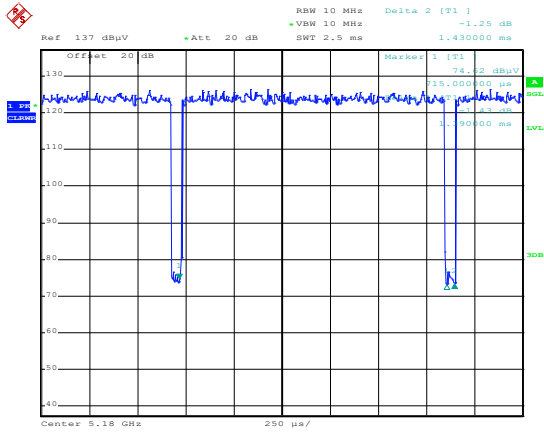
Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)
802.11a	1.39	1.43	97.20%
802.11ac VHT20	1.32	1.36	97.05%
802.11ac VHT40	0.64	0.70	90.86%
802.11ac VHT80	0.34	0.37	89.57%

7.5. Measurement Methods

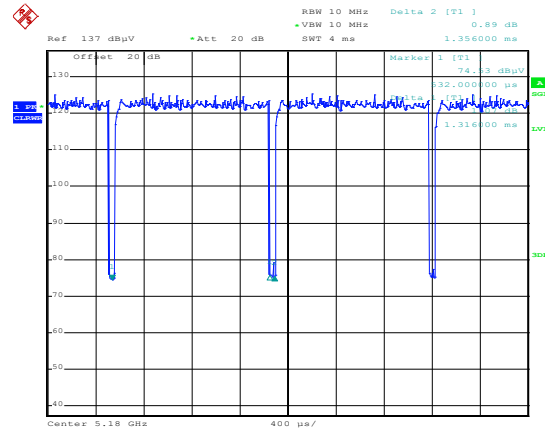
26 dB and 6dB Emission BW	KDB 789033 D02 v01, Section C
99% Occupied BW	KDB 789033 D02 v01, Section D
Conducted Output Power	KDB 789033 D02 v01, Section E.2.d and E.3.b (Method PM-G)
Power Spectral Density	KDB 789033 D02 v01, Section F
Unwanted emissions in restricted bands	KDB 789033 D02 v01, Sections G and H
Unwanted emissions in non-restricted bands	KDB 789033 D02 v01, Sections G and H



Modulation Type: 802.11a (6Mbps)

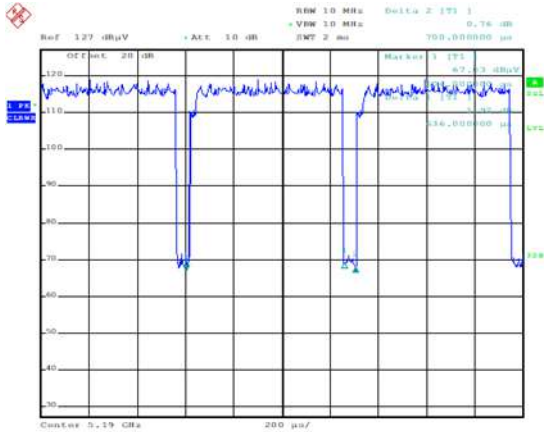


Modulation Type: 802.11ac VHT20 (6.5Mbps)

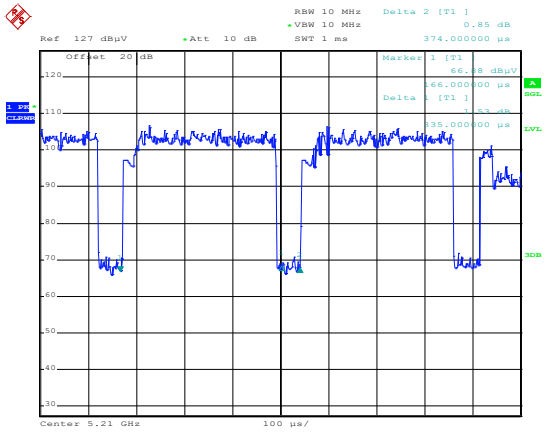


D.

Modulation Type: 802.11ac VHT40 (13.5Mbps)



Modulation Type: 802.11ac VHT80 (29.3Mbps)





8. 6dB Bandwidth & 99% Occupied Bandwidth

8.1. Test Limit

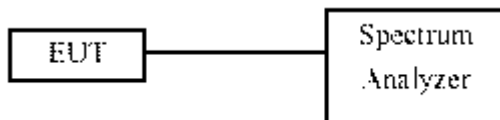
FCC §15.407

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 >= 3 x RBW, peak detector and max hold.

8.3. Test Setup Layout



8.4. Test Result and Data (6dB Bandwidth)

In the 5.8G Band

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)
			ANT A	ANT B	
802.11a	149	5745	16.30	16.00	0.50
	157	5785	16.40	16.30	0.50
	165	5825	16.20	16.30	0.50
802.11ac VHT20	149	5745	16.90	16.50	0.50
	157	5785	16.80	16.60	0.50
	165	5825	16.90	16.50	0.50
802.11ac VHT40	155	5755	35.50	35.90	0.50
	159	5795	35.90	35.70	0.50
802.11ac VHT80	155	5775	75.58	75.58	0.50



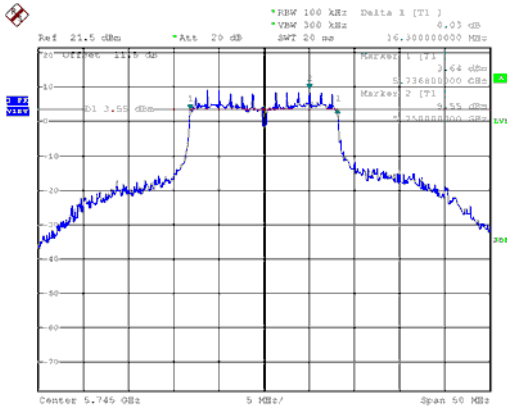
8.5. Test Result and Data (99% Occupied Bandwidth)

In the 5.8G Band

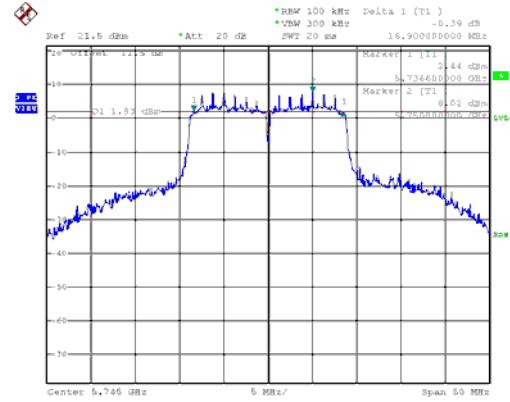
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	149	5745	17.20	17.30
	157	5785	17.40	17.30
	165	5825	17.10	17.50
802.11ac VHT20	149	5745	18.30	18.10
	157	5785	18.40	18.40
	165	5825	18.40	18.50
802.11ac VHT40	155	5755	38.40	37.80
	159	5795	38.40	38.80
802.11ac VHT80	155	5775	76.16	75.84



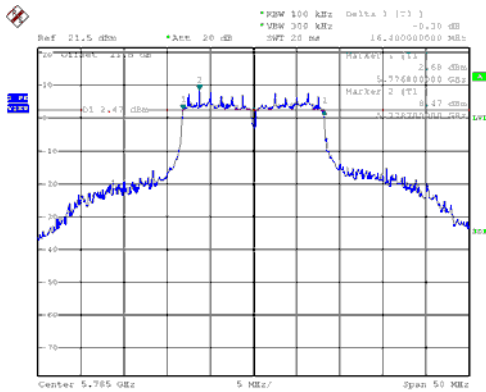
6dB Bandwidth ANT A
Modulation Type: 802.11a (6Mbps)
CH149



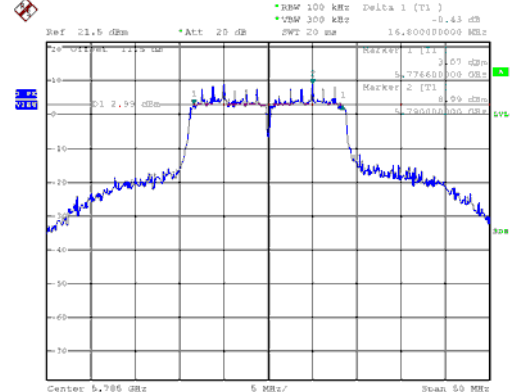
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



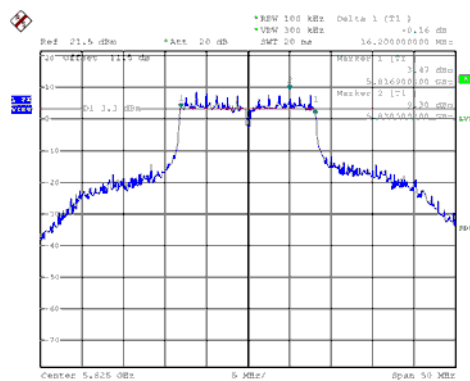
CH157



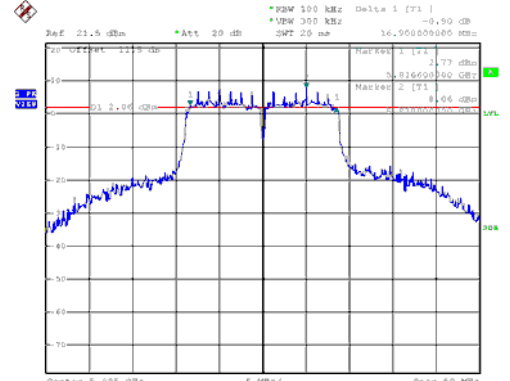
CH157



CH165

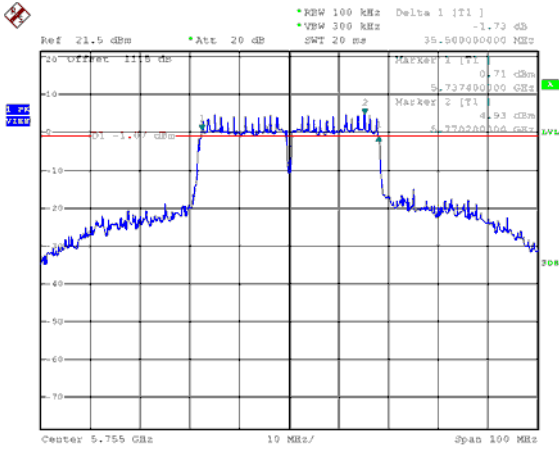


CH165

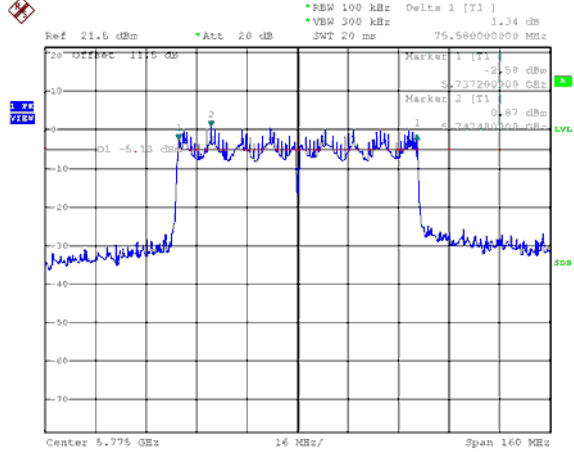




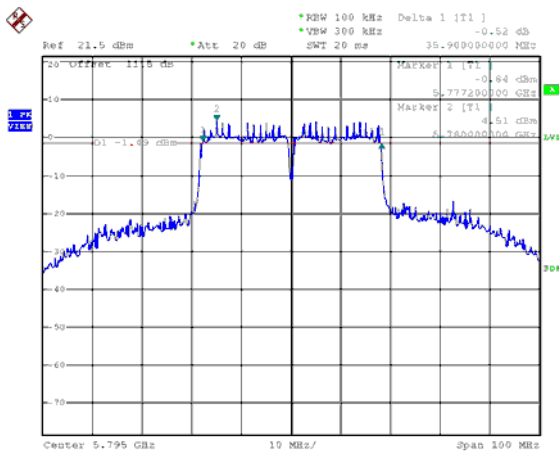
6dB Bandwidth ANT A
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Type: 802.11ac, VHT80 (29.3Mbps)
CH155

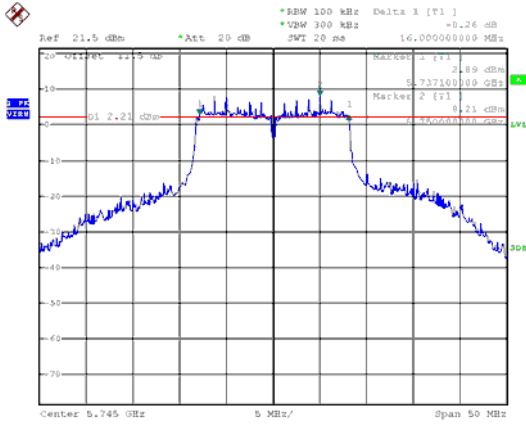


CH159

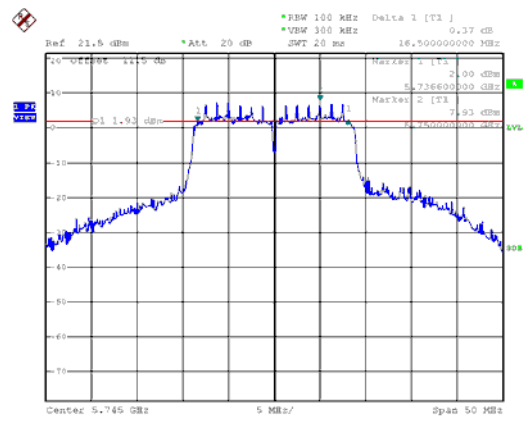




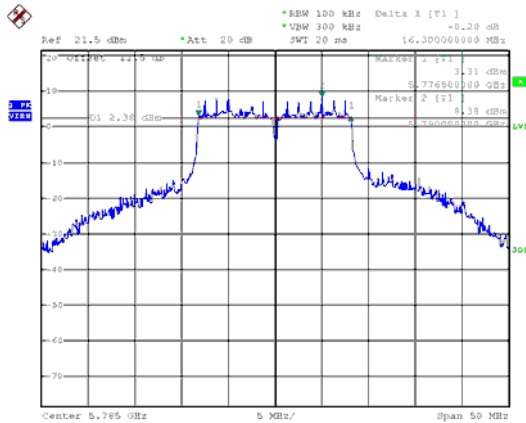
6dB Bandwidth ANT B
Modulation Type: 802.11a (6Mbps)
CH149



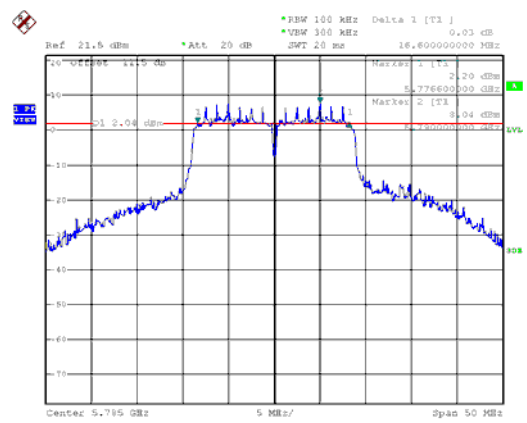
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



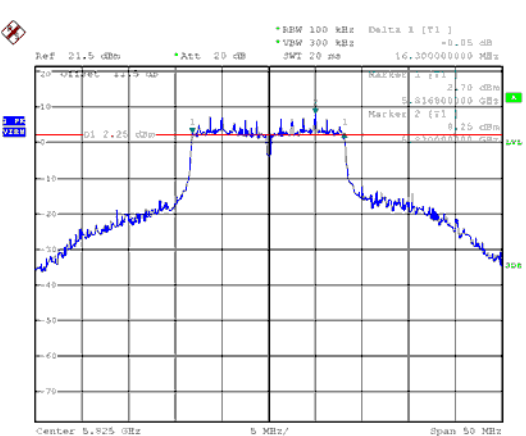
CH157



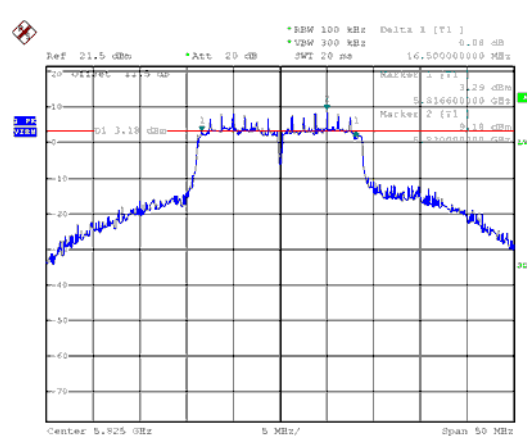
CH157



CH165

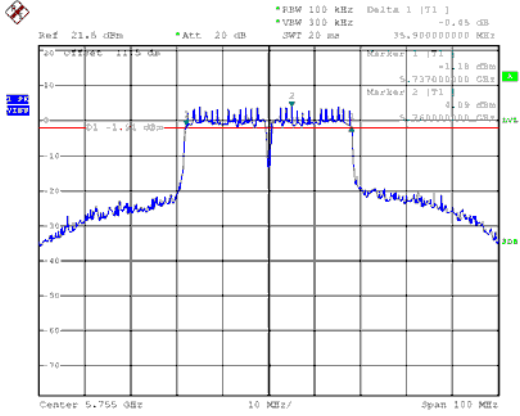


CH165

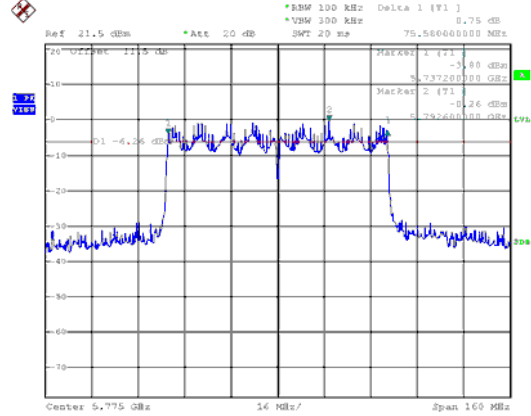




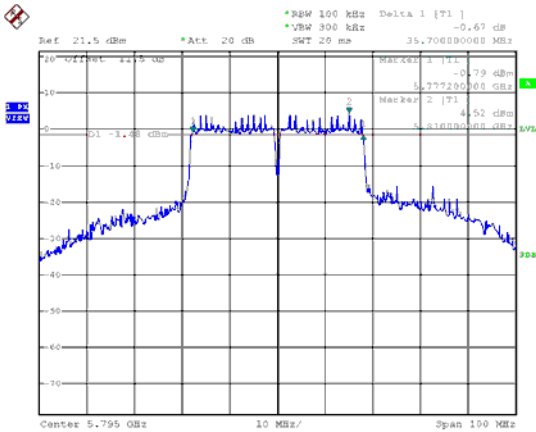
6dB Bandwidth ANT B
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Type: 802.11ac, VHT80 (29.3Mbps)
CH155

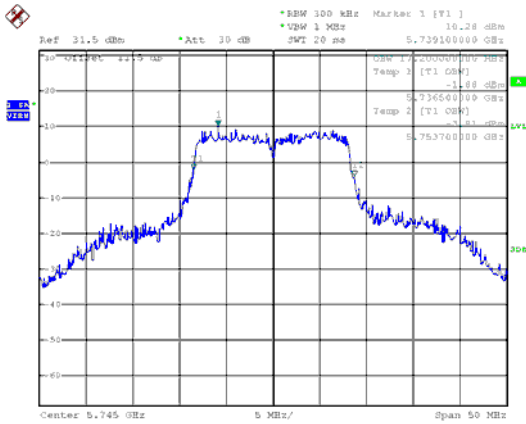


CH159

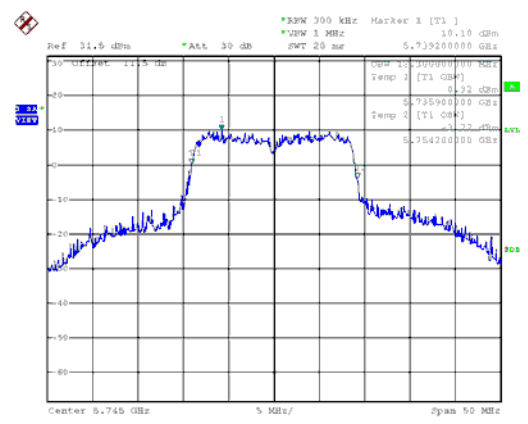




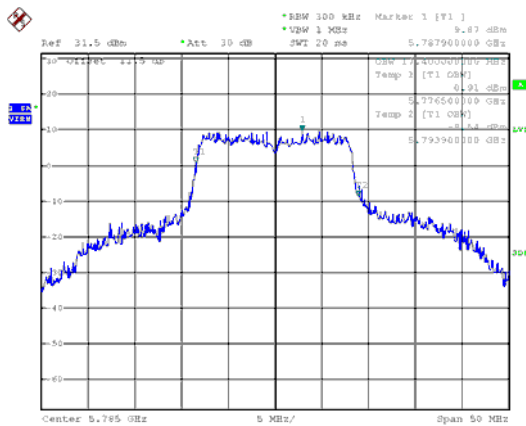
99% Occupied Bandwidth ANT A
Modulation Type: 802.11a (6Mbps)
CH149



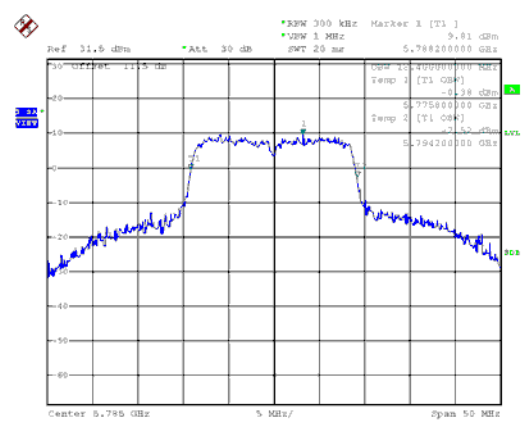
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



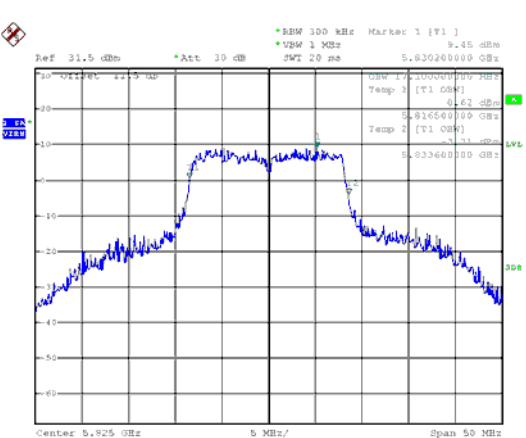
CH157



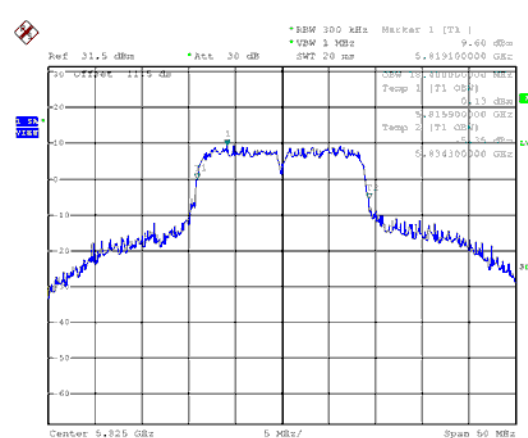
CH157



CH165

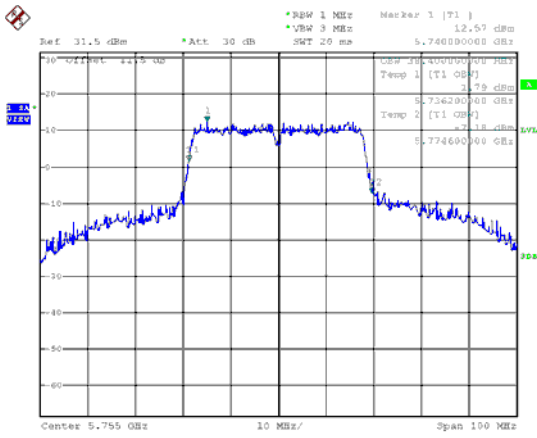


CH165

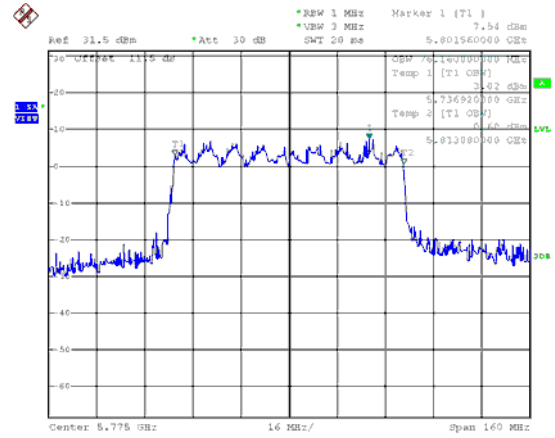




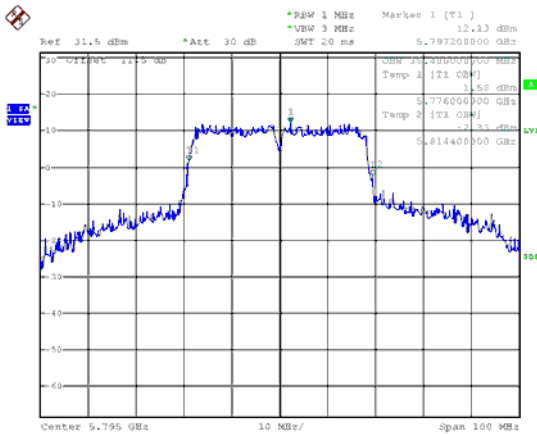
99% Occupied Bandwidth ANT A
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Type: 802.11ac, VHT80 (29.3Mbps)
CH155

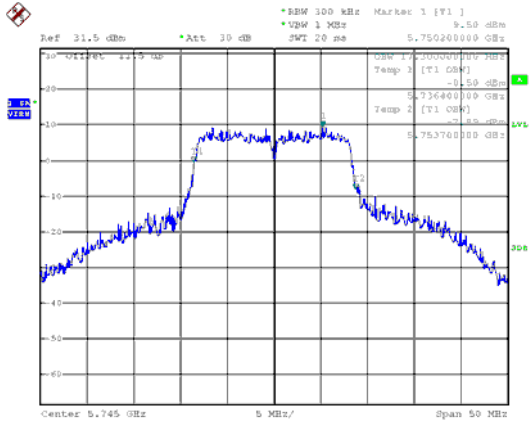


CH159

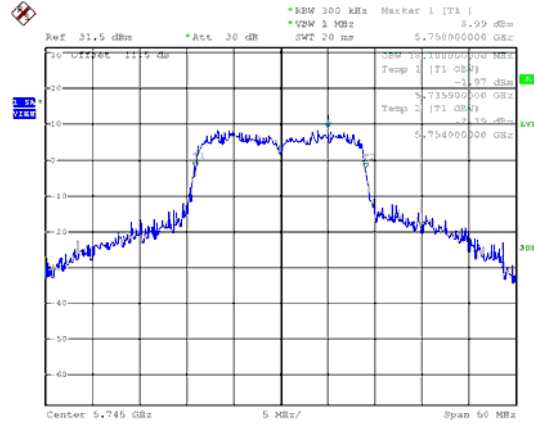




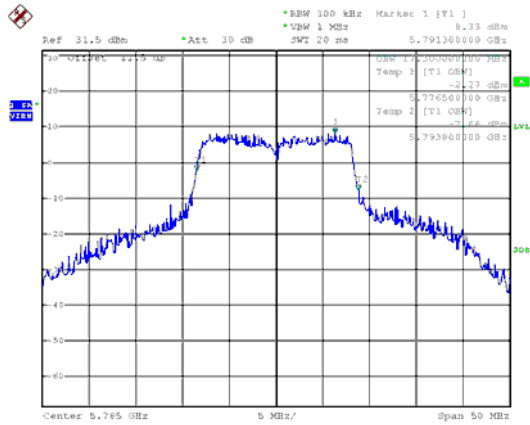
99% Occupied Bandwidth ANT B
Modulation Type: 802.11a (6Mbps)
CH149



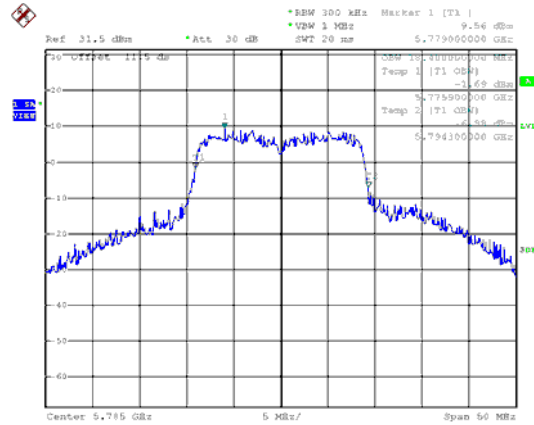
Modulation Type: 802.11ac, VHT20 (6.5Mbps)
CH149



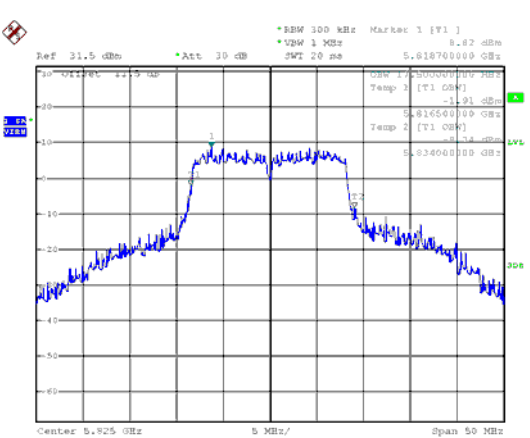
CH157



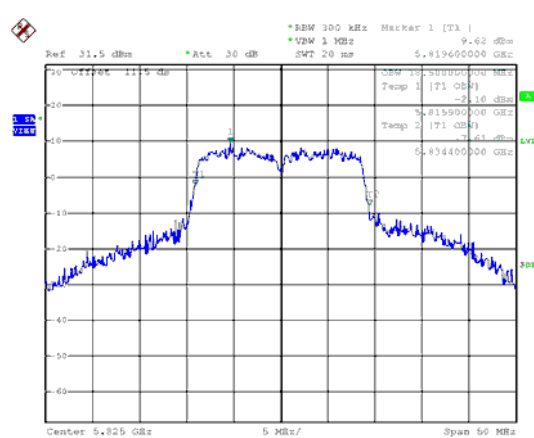
CH157



CH165

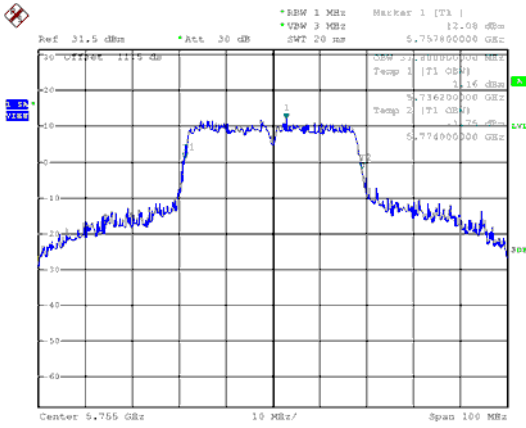


CH165

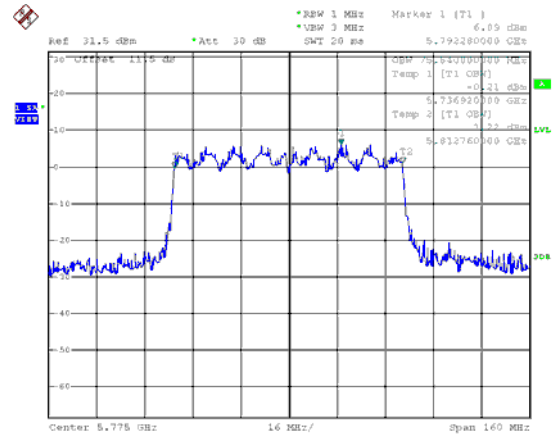




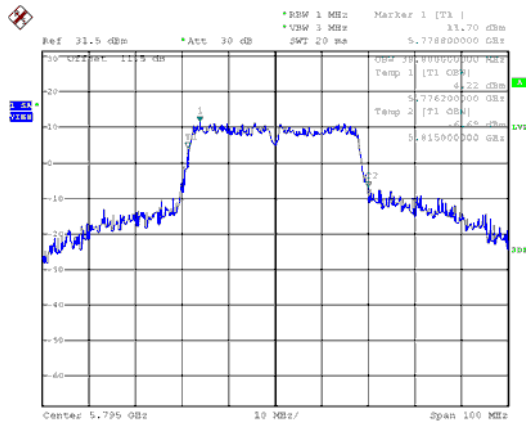
99% Occupied Bandwidth ANT B
Modulation Type: 802.11ac, VHT40 (13.5Mbps)
CH151



Modulation Type: 802.11ac, VHT80 (29.3Mbps)
CH155



CH159





9. 26dB Bandwidth & 99% Occupied Bandwidth

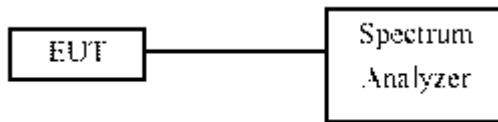
9.1. Test Limit

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 (26dB Bandwidth)

In the 5.2GHz Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	21.15	20.70
	44	5220	20.85	20.80
	48	5240	21.25	20.40
802.11ac VHT20	36	5180	21.65	21.25
	44	5220	21.70	21.40
	48	5240	21.65	21.85
802.11ac VHT40	38	5190	43.80	43.20
	46	5230	69.70	69.80
802.11ac VHT80	42	5210	84.32	83.20

**In the 5.3GHz Band**

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	52	5260	21.60	21.60
	60	5300	22.00	21.50
	64	5320	21.60	21.60
802.11ac VHT20	52	5260	22.30	21.90
	60	5300	22.50	22.40
	64	5320	21.90	21.50
802.11ac VHT40	54	5270	66.90	65.70
	62	5310	44.30	44.00
802.11ac VHT80	58	5290	83.20	83.20

In the 5.5GHz Band

Modulation Type	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	21.50	20.80
	116	5580	22.75	22.50
	140	5700	21.60	21.00
802.11ac VHT20	100	5500	21.55	20.95
	116	5580	25.60	26.85
	140	5700	21.55	21.05
802.11ac VHT40	102	5510	44.30	43.80
	110	5550	58.40	55.20
	134	5670	44.40	44.10
802.11ac VHT80	106	5530	83.20	82.56



9.5. Test Result and Data (99% Occupied Bandwidth)

In the 5.2GHz Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	36	5180	16.70	16.75
	44	5220	16.70	16.65
	48	5240	16.80	16.70
802.11ac VHT20	36	5180	17.80	17.80
	44	5220	17.80	17.80
	48	5240	17.80	17.70
802.11ac VHT40	38	5190	36.60	36.60
	46	5230	37.70	38.00
802.11ac VHT80	42	5210	76.00	75.84

In the 5.3GHz Band

Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	52	5260	16.80	16.70
	60	5300	16.80	16.60
	64	5320	16.70	16.80
802.11ac VHT20	52	5260	17.80	17.90
	60	5300	17.80	17.90
	64	5320	17.75	17.75
802.11ac VHT40	54	5270	37.40	37.40
	62	5310	36.70	36.60
802.11ac VHT80	58	5290	75.84	75.84

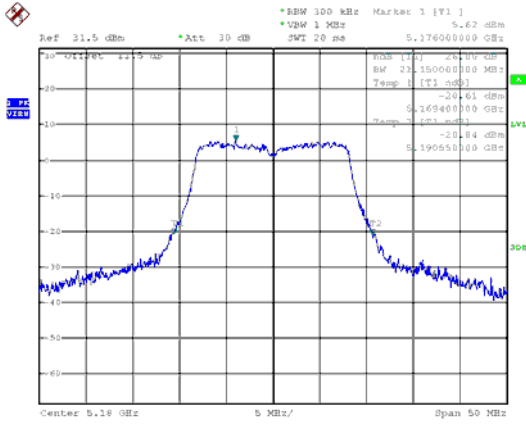


In the 5.5GHz Band

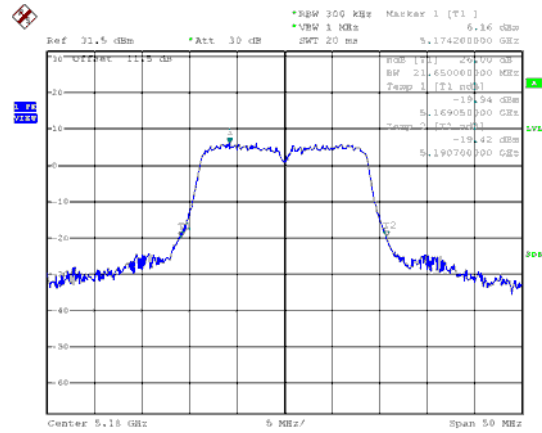
Modulation Type	Channel	Frequency (MHz)	99% Bandwidth (MHz)	
			ANT A	ANT B
802.11a	100	5500	16.80	16.70
	116	5580	16.75	16.75
	140	5700	16.90	16.70
802.11ac VHT20	100	5500	17.80	17.75
	116	5580	17.95	17.95
	140	5700	17.85	17.70
802.11ac VHT40	102	5510	36.60	36.70
	110	5550	37.00	36.80
	134	5670	36.60	36.80
802.11ac VHT80	106	5530	75.84	75.84



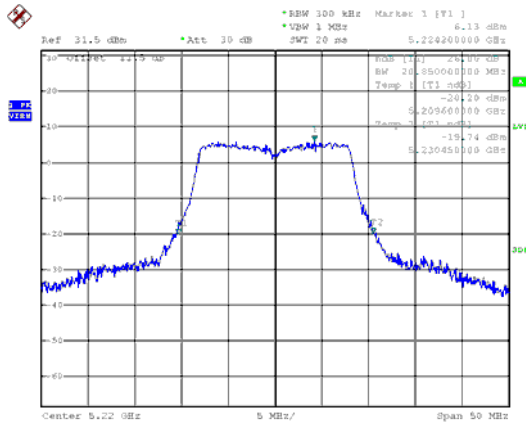
26dB Bandwidth Band 1, ANT A
Modulation Type: 802.11a (6Mbps)
CH36



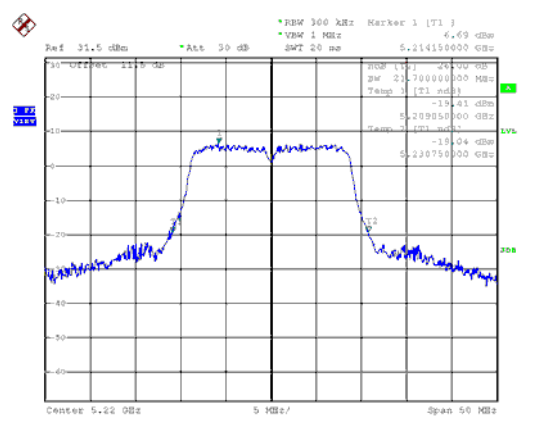
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



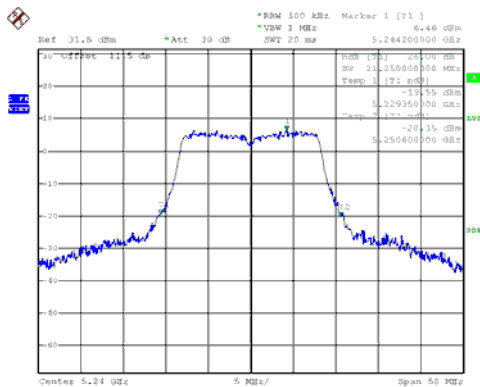
CH44



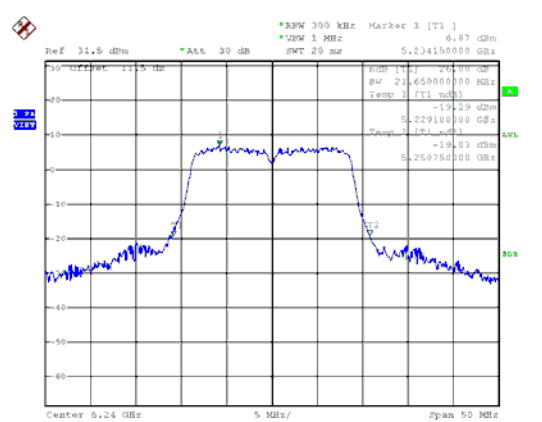
CH44



CH48

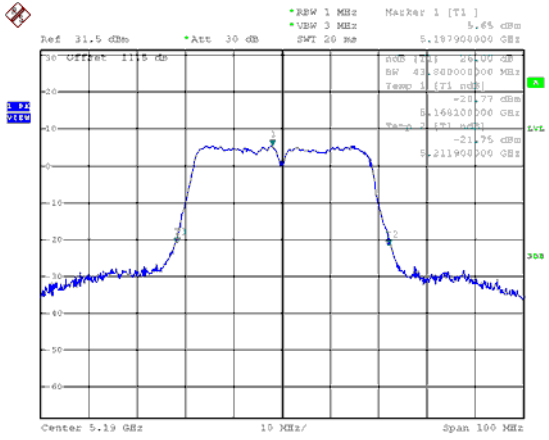


CH48

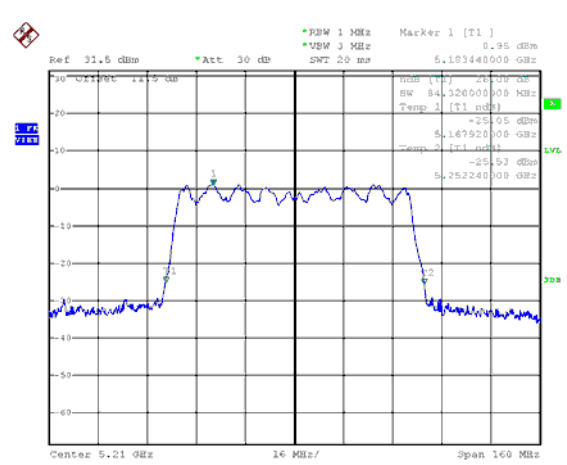




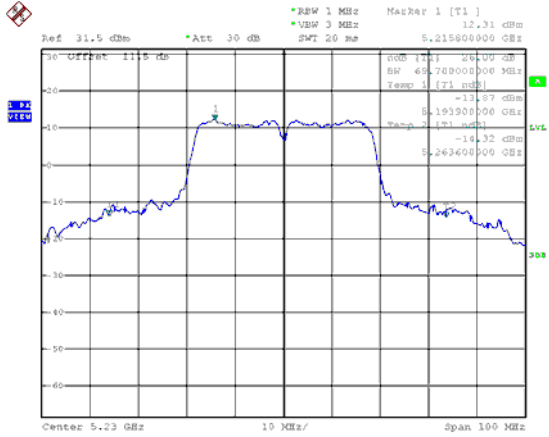
26dB Bandwidth Band 1, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42



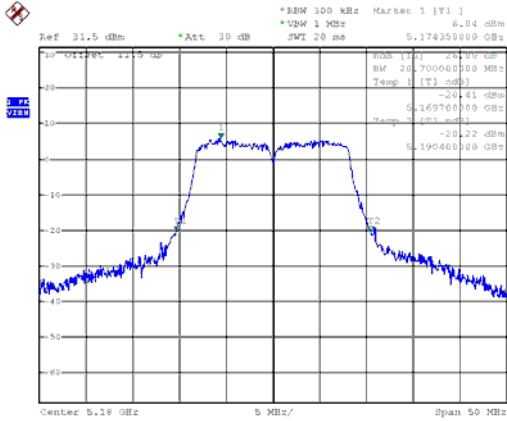
CH46



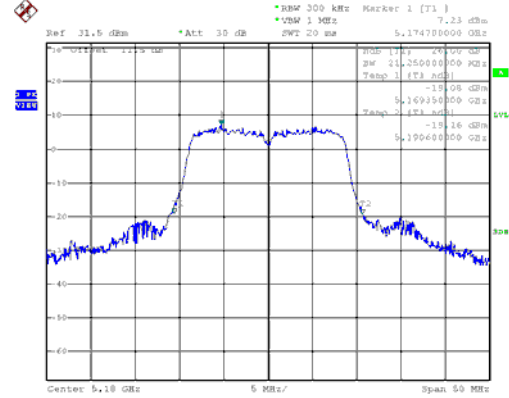


26dB Bandwidth Band 1, ANT B

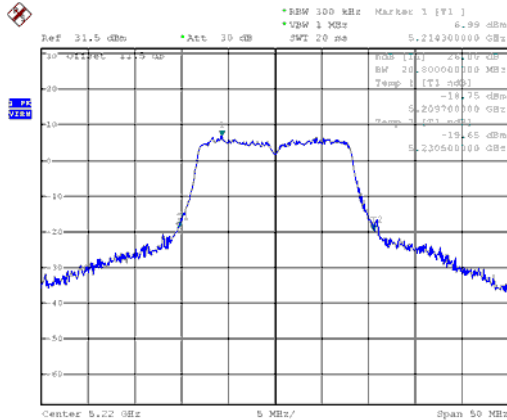
Modulation Type: 802.11a (6Mbps)
CH36



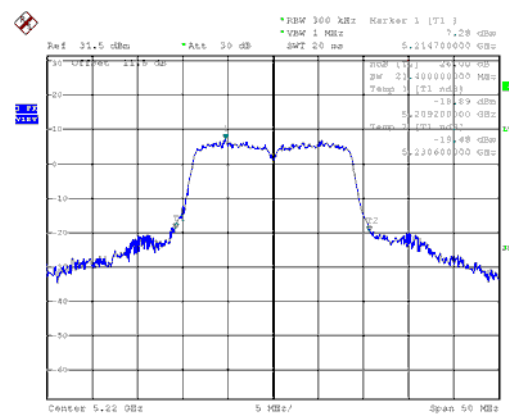
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



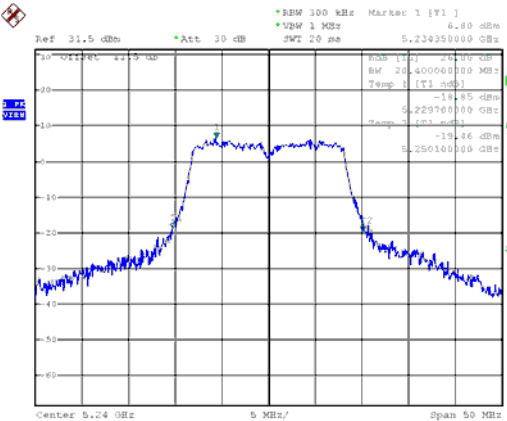
CH44



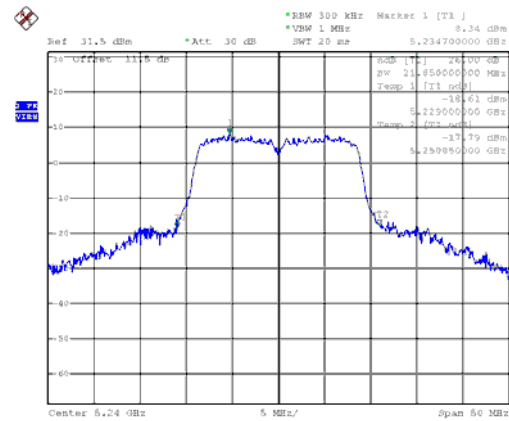
CH44



CH48



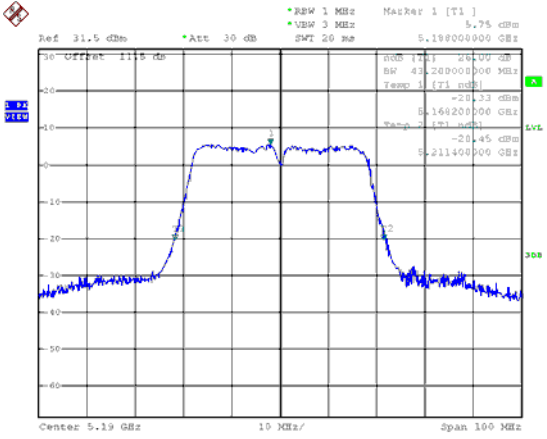
CH48



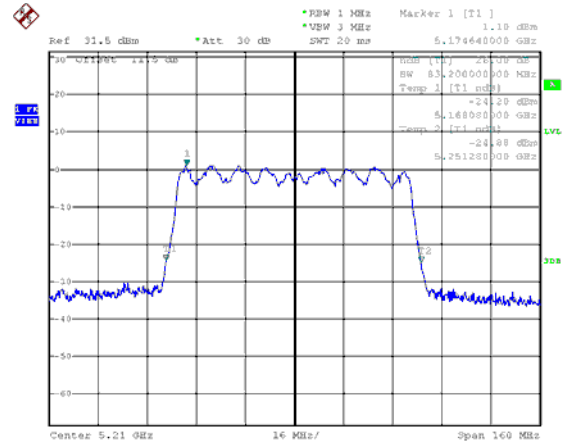


26dB Bandwidth Band 1, ANT B

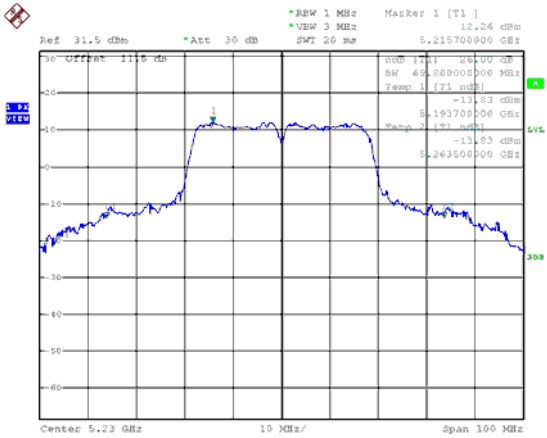
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42

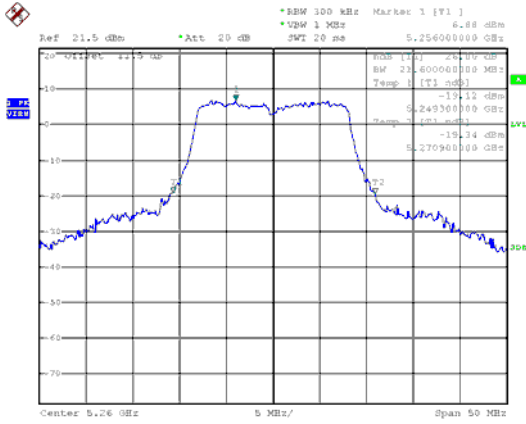


CH46

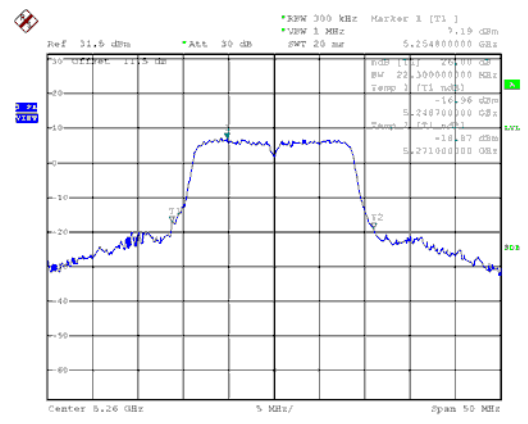




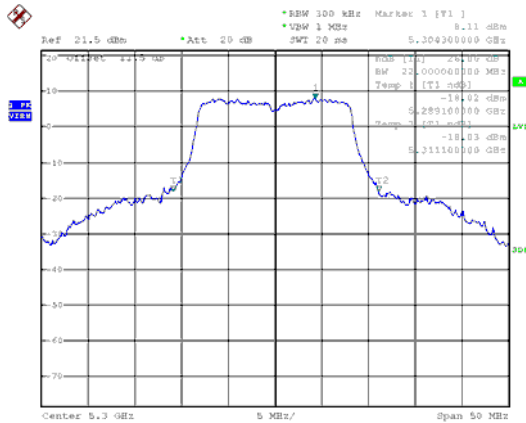
26dB Bandwidth Band 2, ANT A
Modulation Type: 802.11a (6Mbps)
CH52



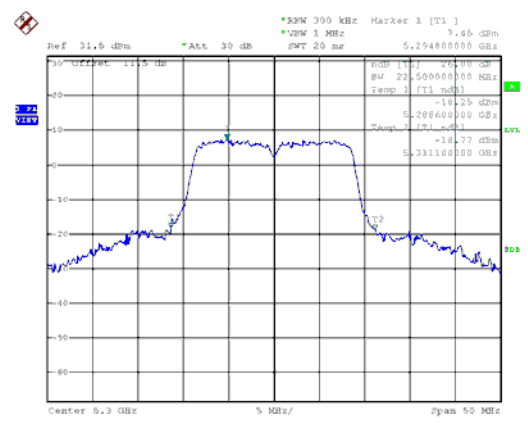
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



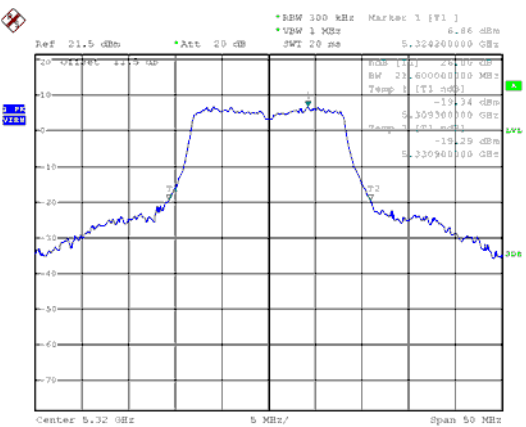
CH60



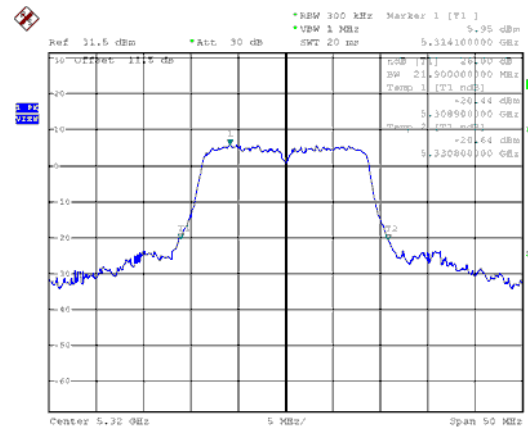
CH60



CH64

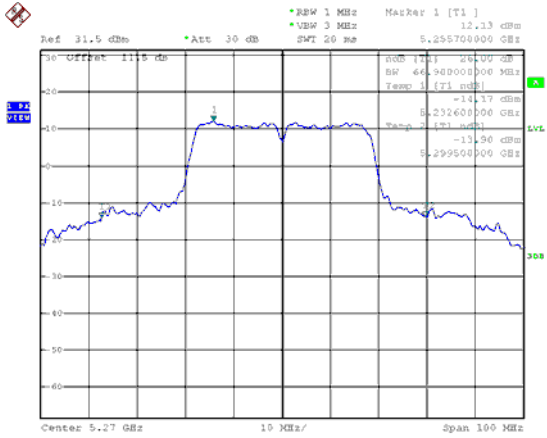


CH64

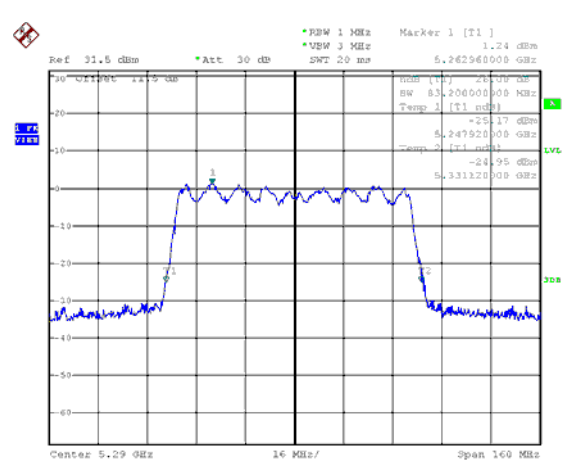




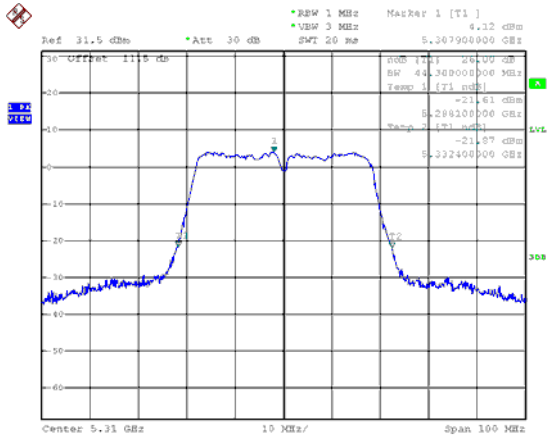
26dB Bandwidth Band 2, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58



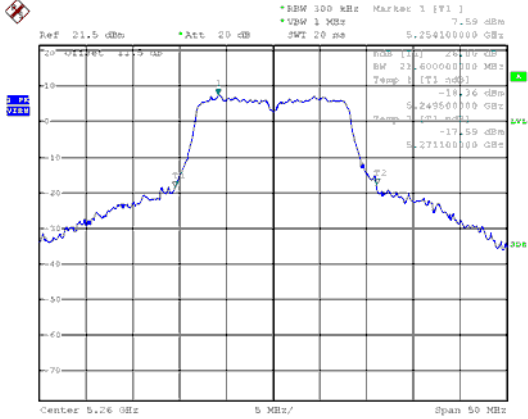
CH62



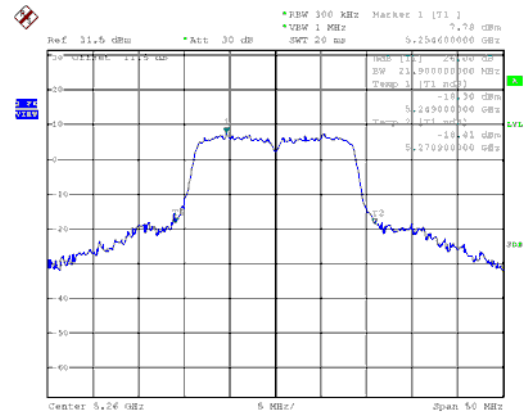


26dB Bandwidth Band 2, ANT B

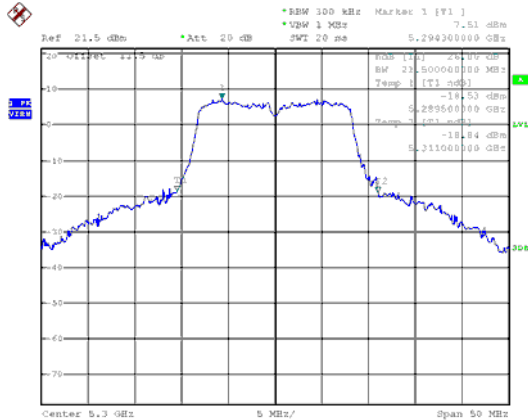
Modulation Type: 802.11a (6Mbps)
CH52



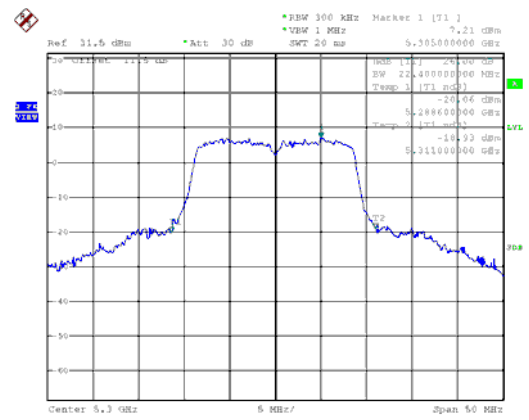
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



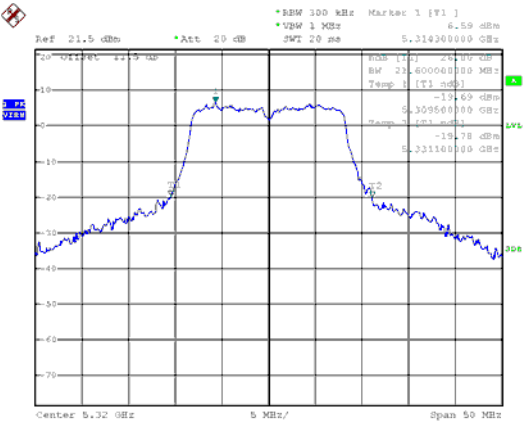
CH60



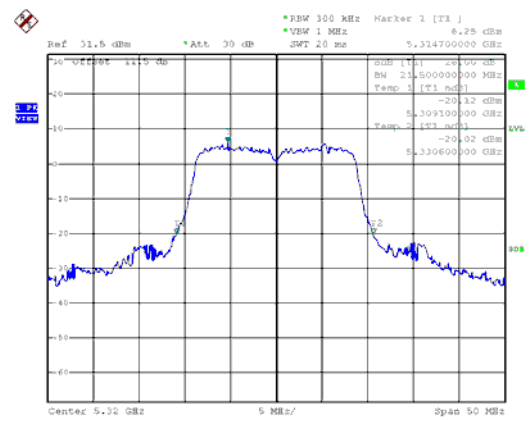
CH60



CH64



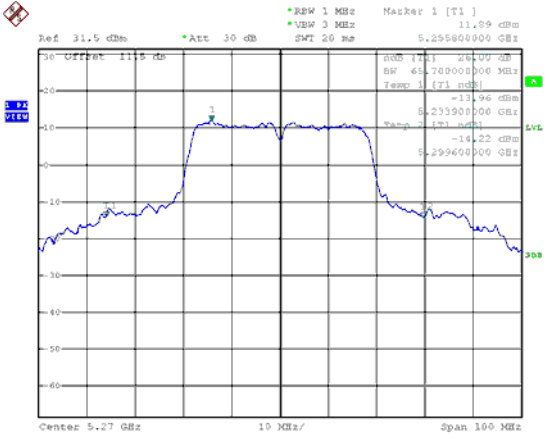
CH64



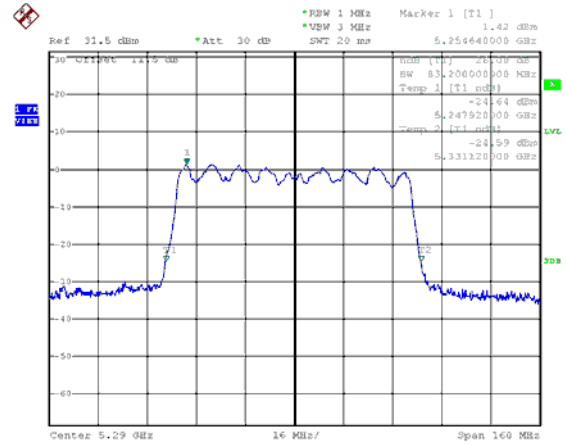


26dB Bandwidth Band 2, ANT B

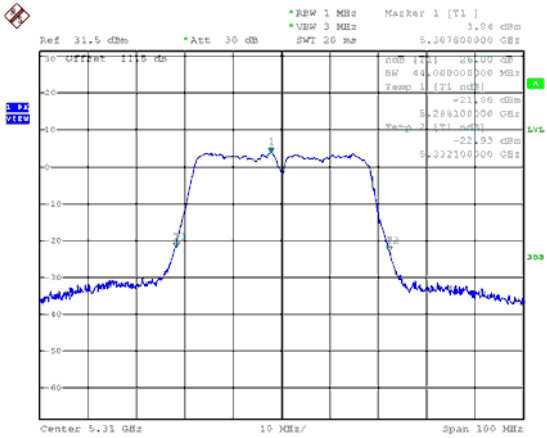
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58

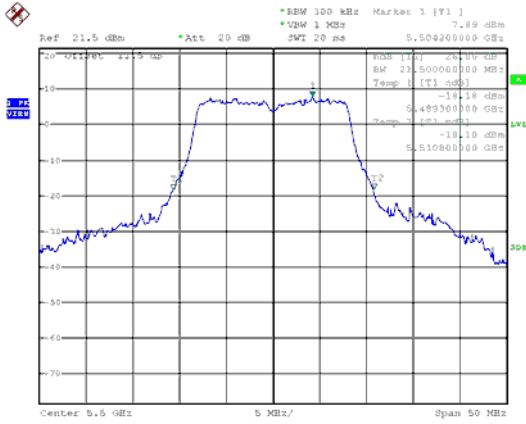


CH62

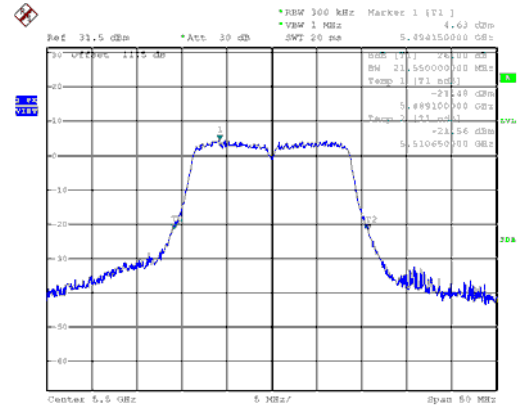




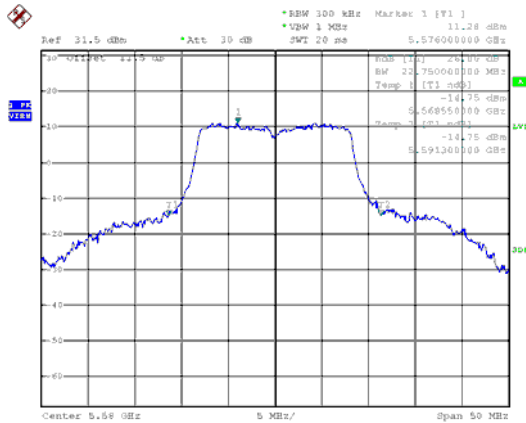
26dB Bandwidth Band 3, ANT A
Modulation Type: 802.11a (6Mbps)
CH100



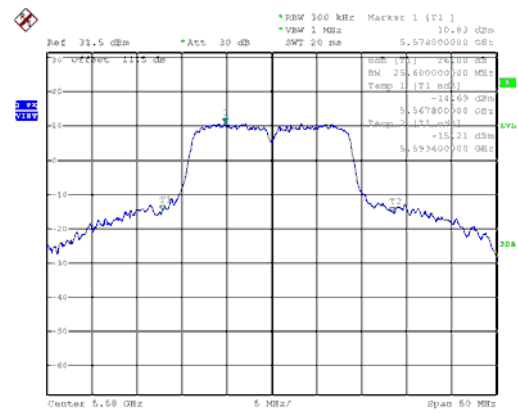
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



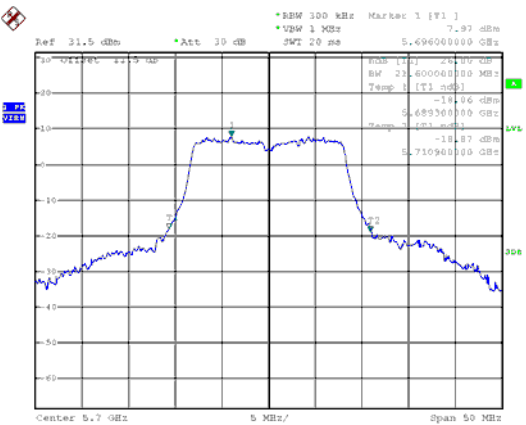
CH116



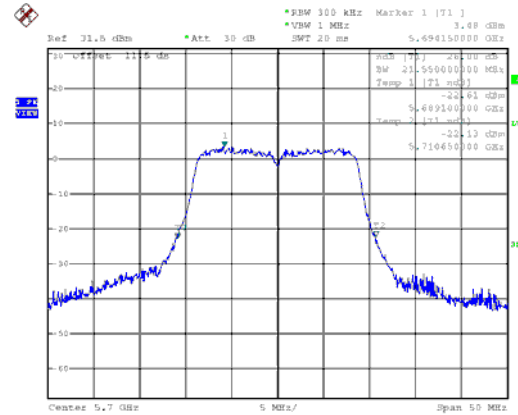
CH116



CH140

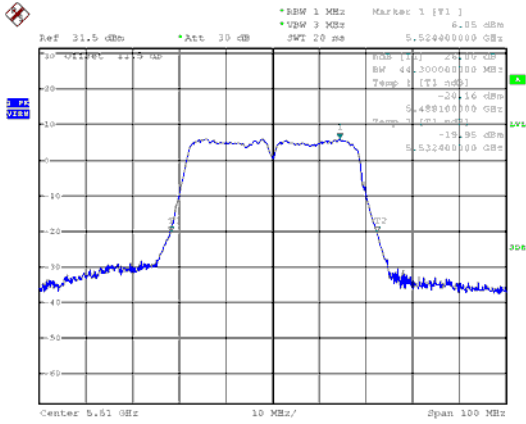


CH140

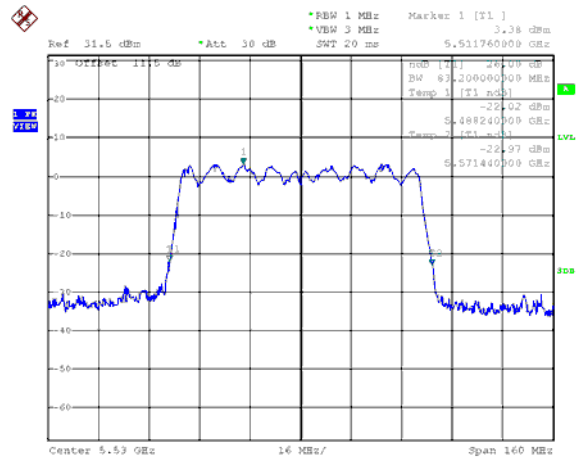




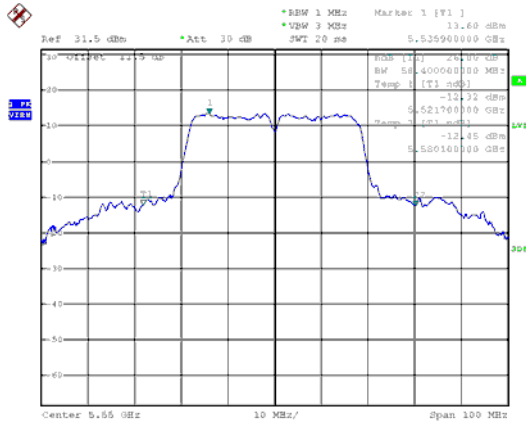
26dB Bandwidth Band 3, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



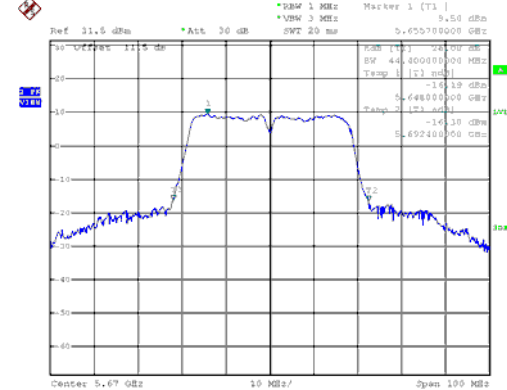
Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH106



CH110

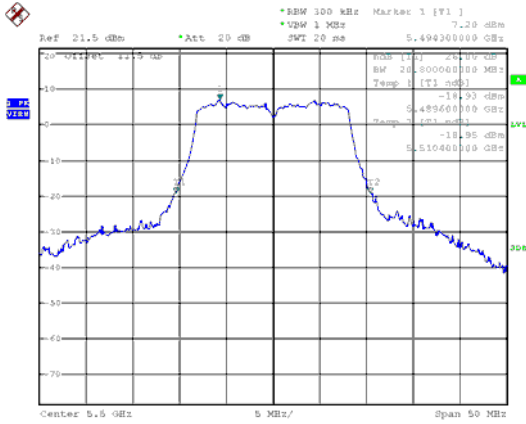


CH134

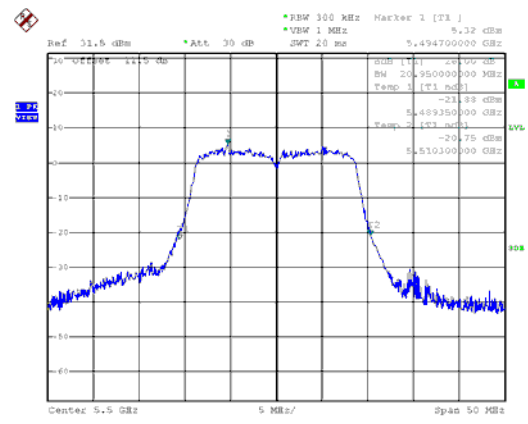




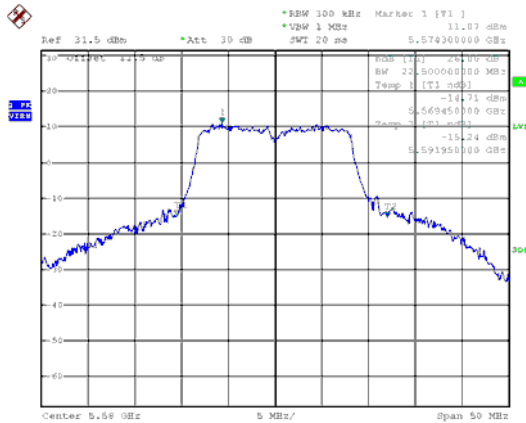
26dB Bandwidth Band 3, ANT B
Modulation Type: 802.11a (6Mbps)
CH100



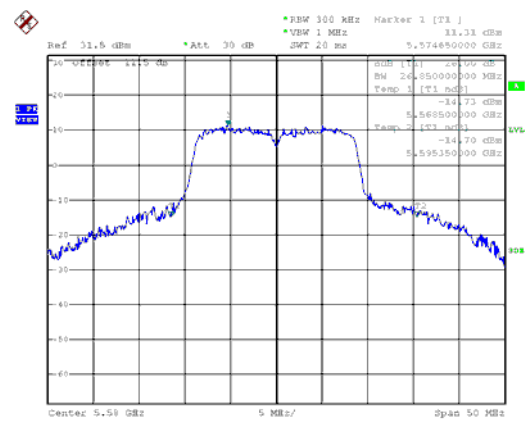
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



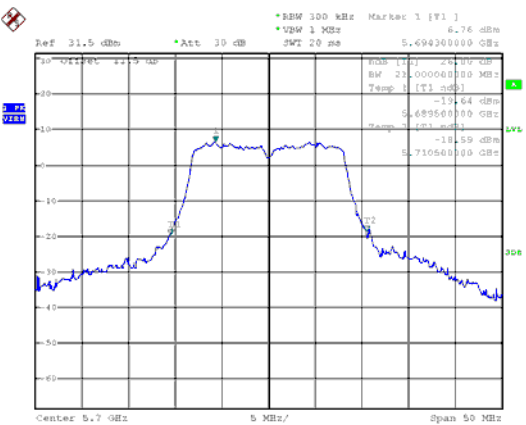
CH116



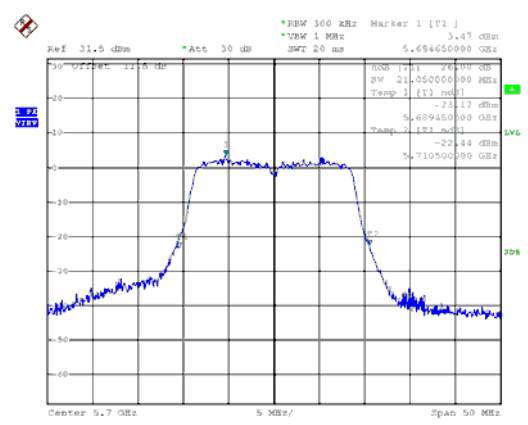
CH116



CH140

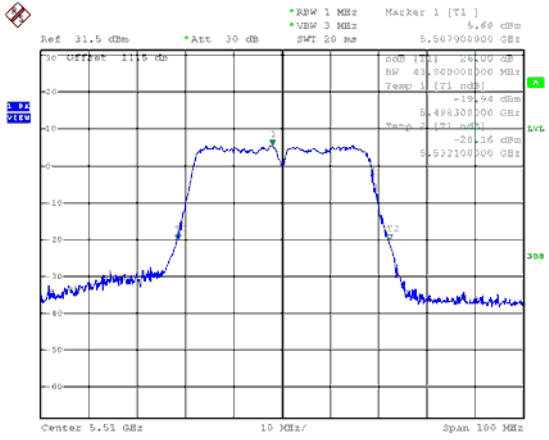


CH140

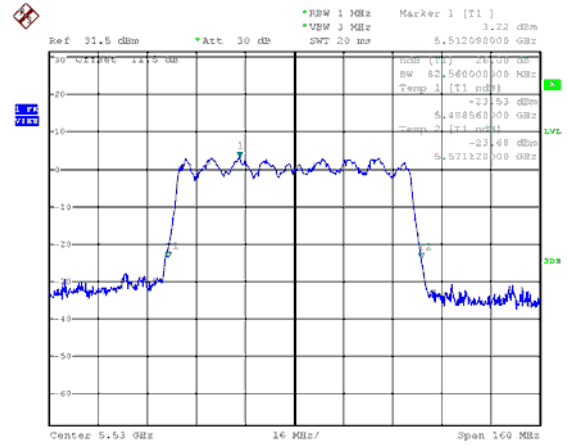




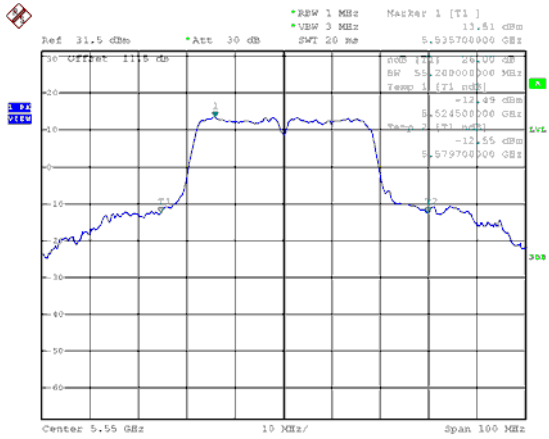
26dB Bandwidth Band 3, ANT B
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



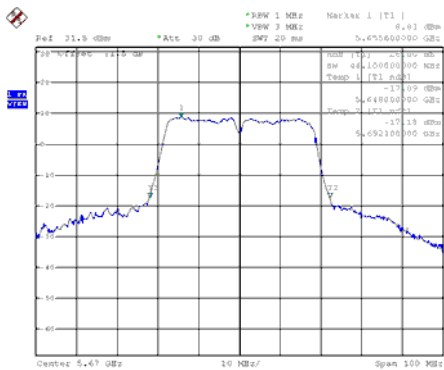
Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH106



CH110

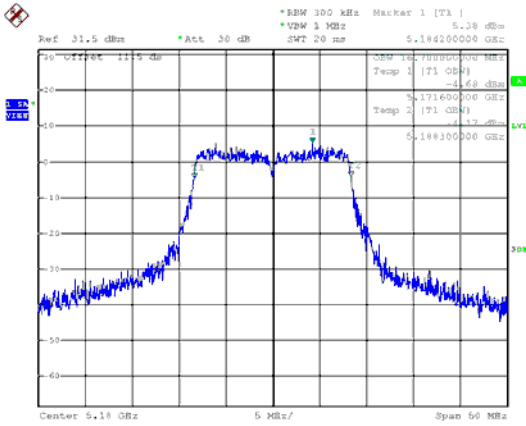


CH134

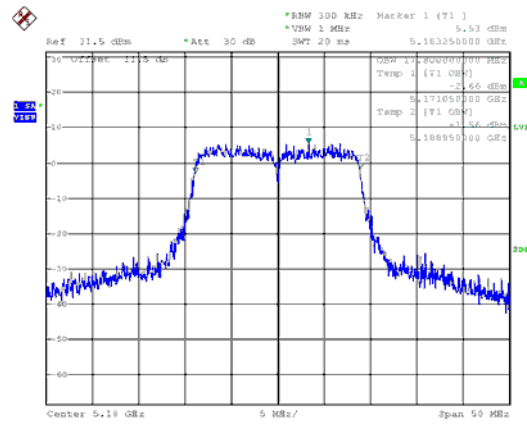




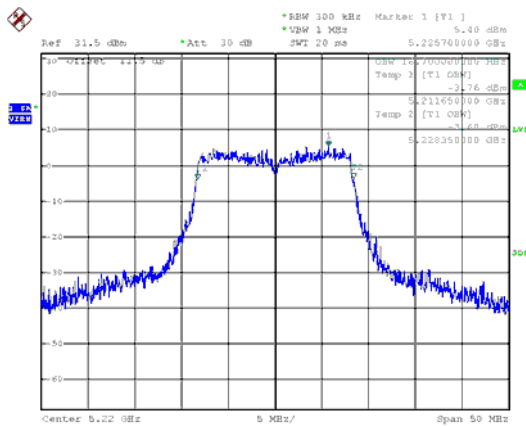
99% Bandwidth Band 1, ANT A
Modulation Type: 802.11a (6Mbps)
CH36



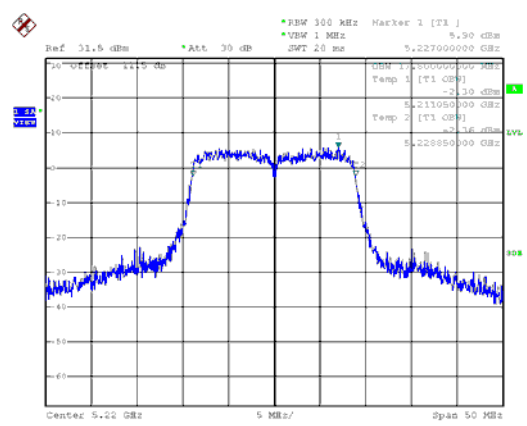
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



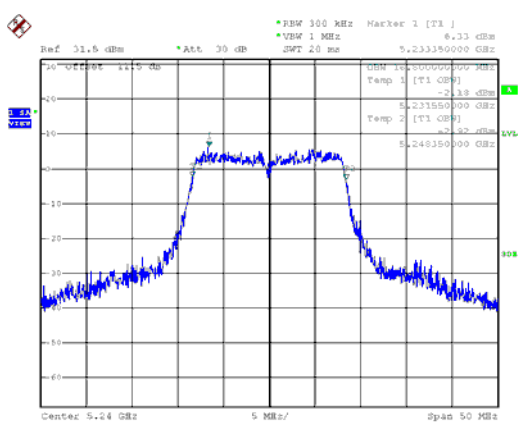
CH44



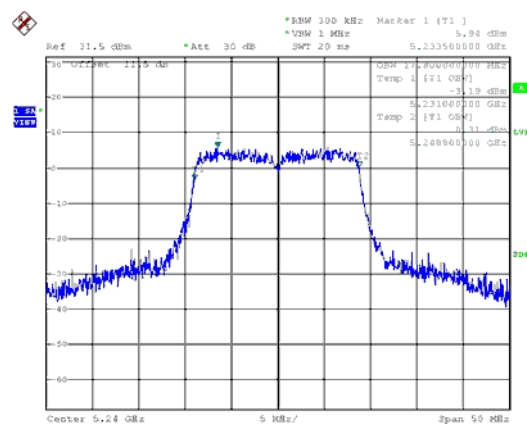
CH44



CH48

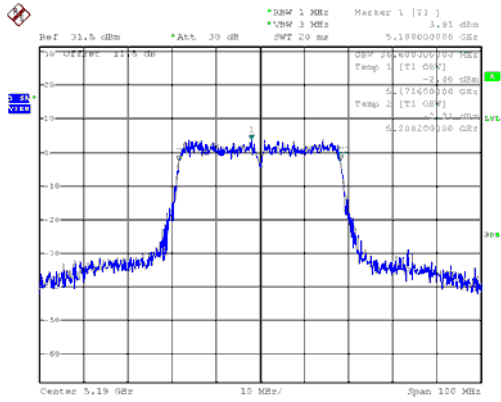


CH48

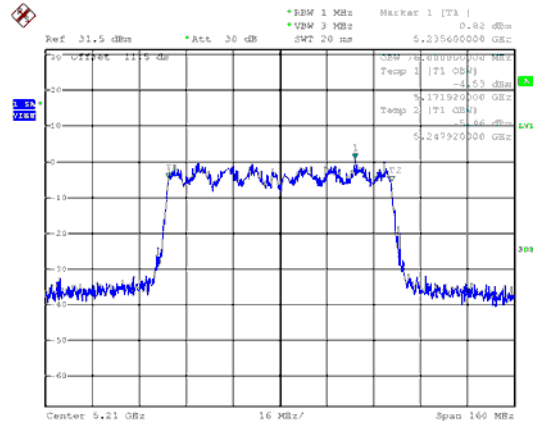




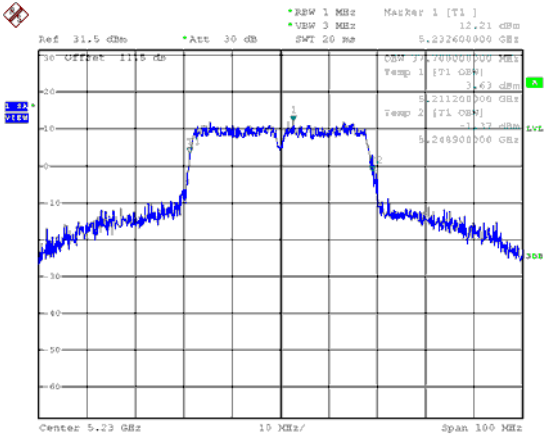
99% Bandwidth Band 1, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42



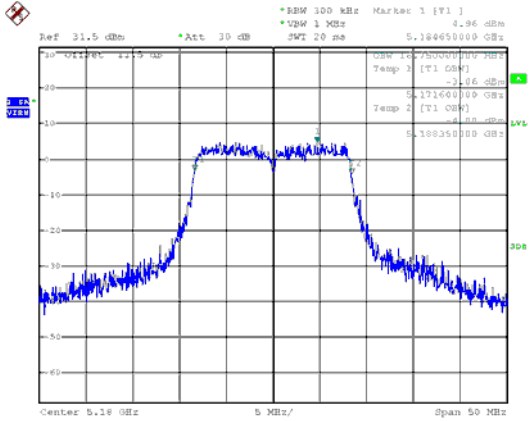
CH46



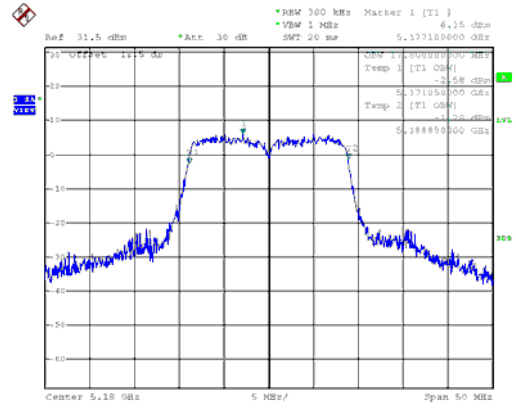


99% Bandwidth Band 1, ANT B

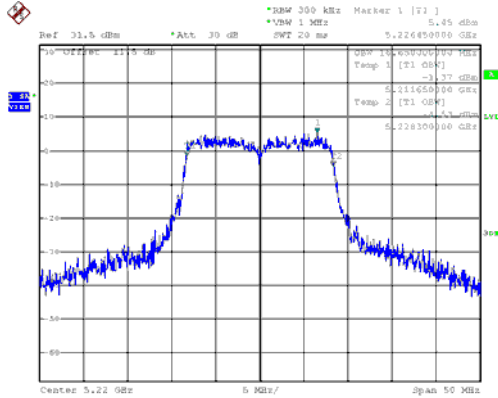
Modulation Type: 802.11a (6Mbps)
CH36



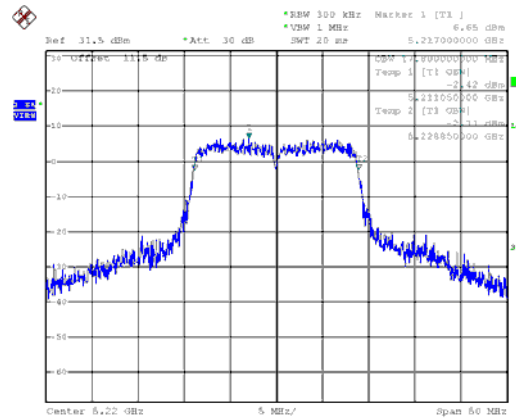
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



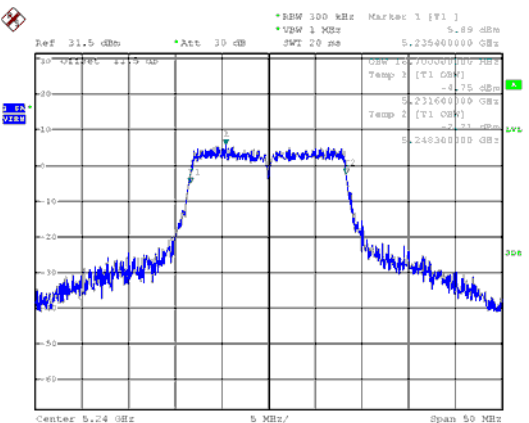
CH44



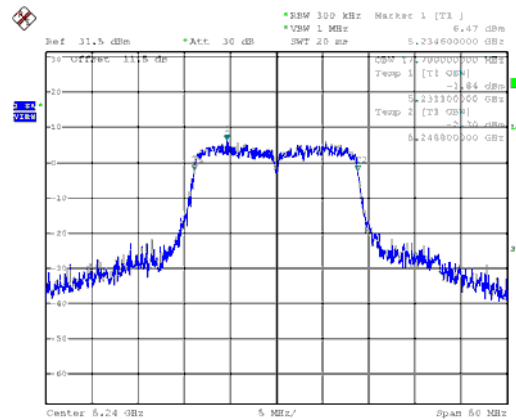
CH44



CH48



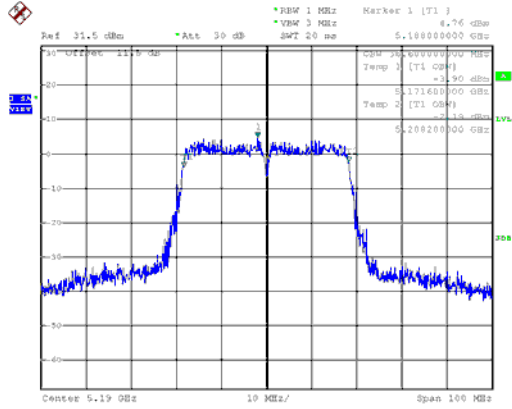
CH48



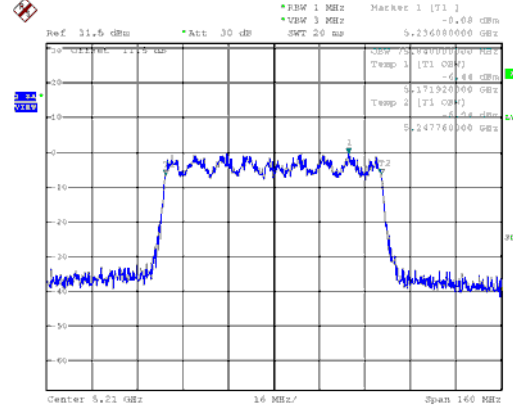


99% Bandwidth Band 1, ANT B

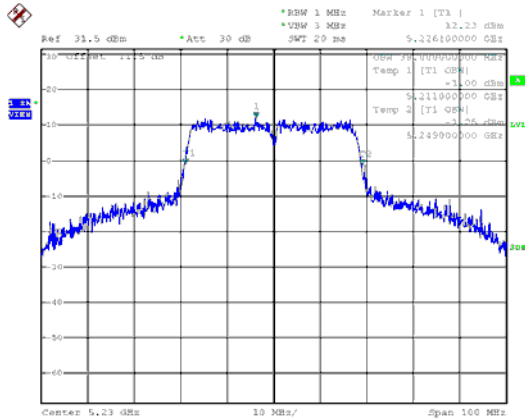
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42

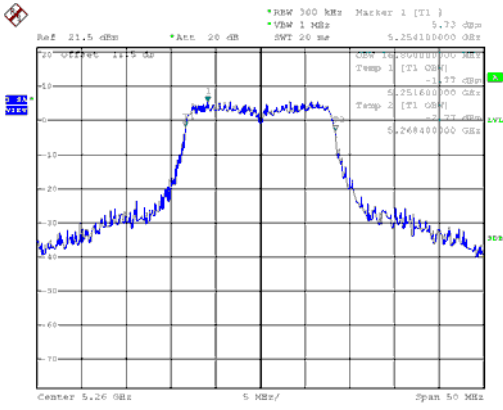


CH46

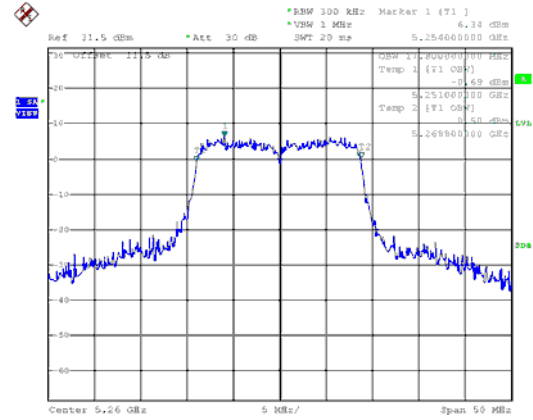




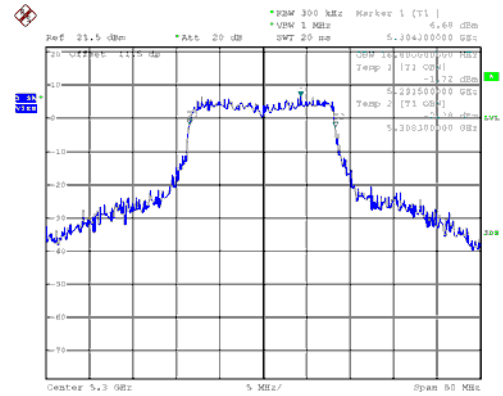
99% Bandwidth Band 2, ANT A
Modulation Type: 802.11a (6Mbps)
CH52



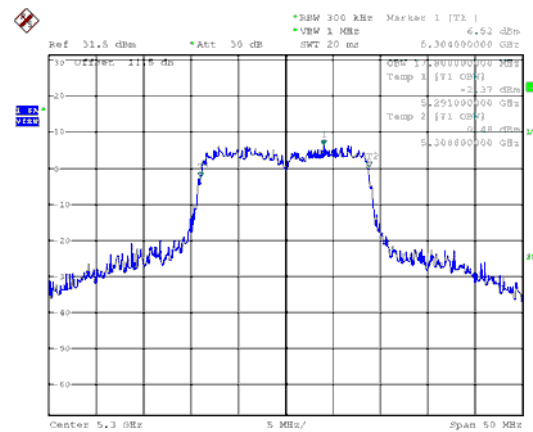
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



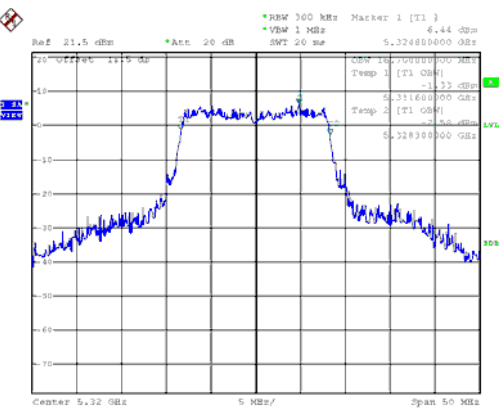
CH60



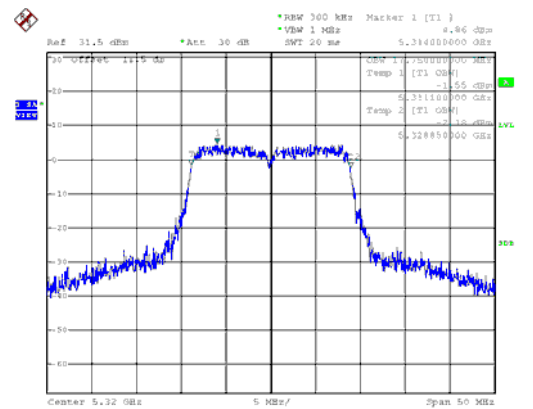
CH60



CH64



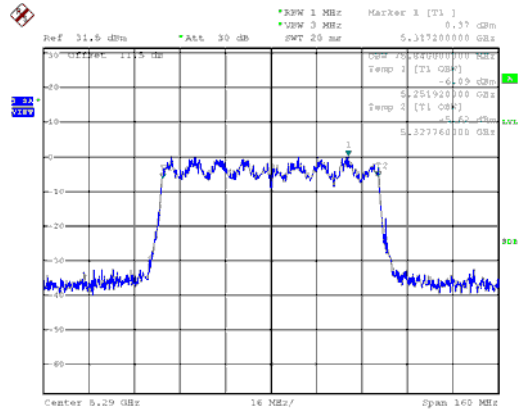
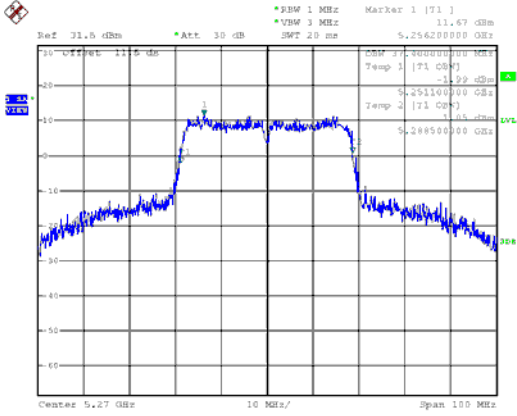
CH64



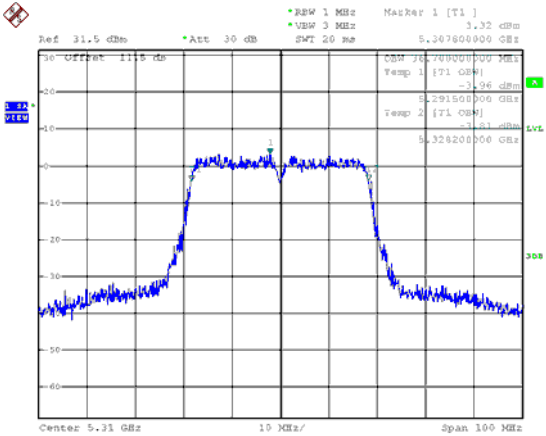


99% Bandwidth Band 2, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54

Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58



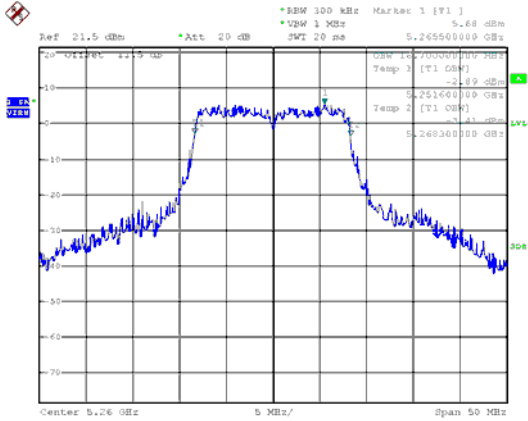
CH62



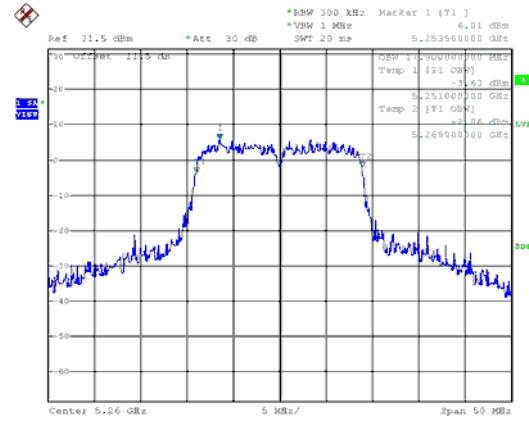


99% Bandwidth Band 2, ANT B

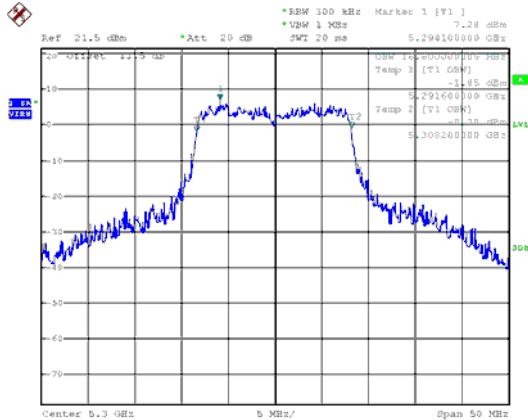
Modulation Type: 802.11a (6Mbps)
CH52



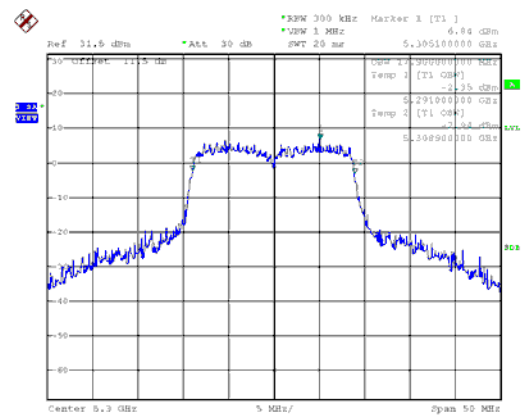
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



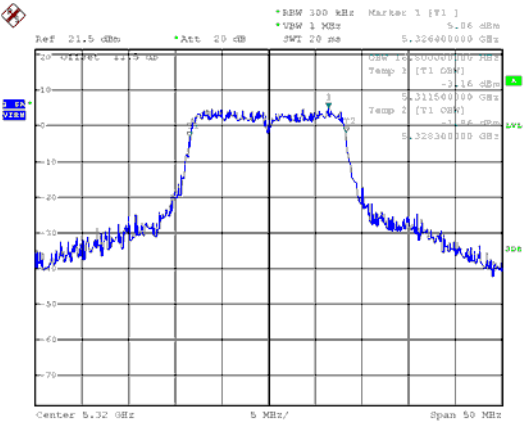
CH60



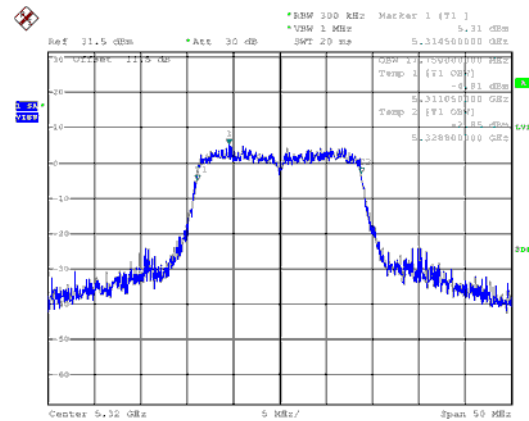
CH60



CH64



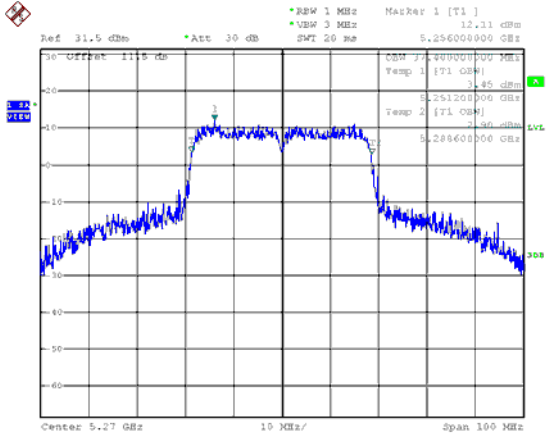
CH64



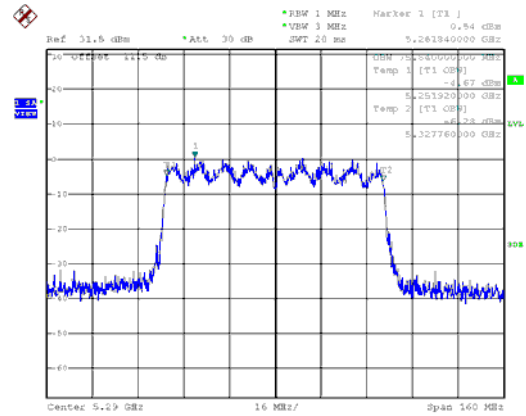


99% Bandwidth Band 2, ANT B

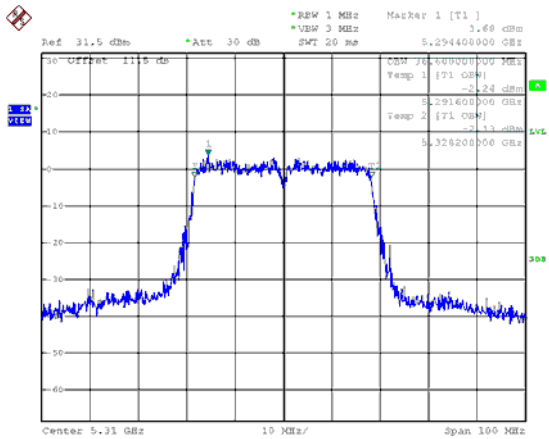
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58

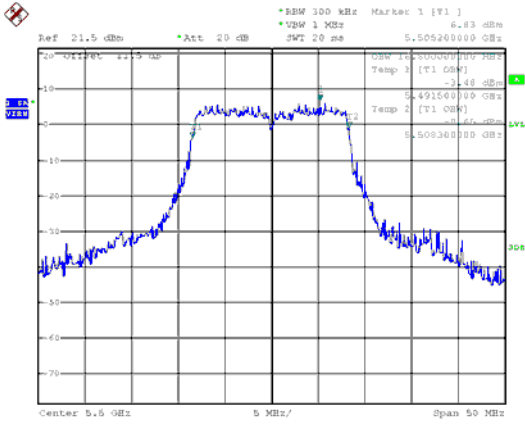


CH62

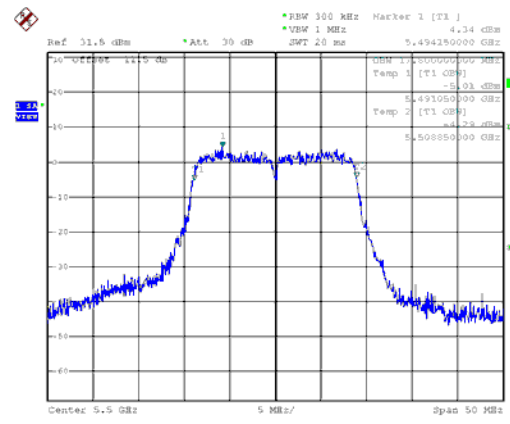




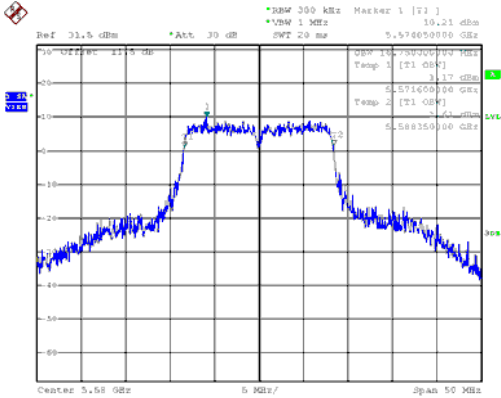
99% Bandwidth Band 3, ANT A
Modulation Type: 802.11a (6Mbps)
CH100



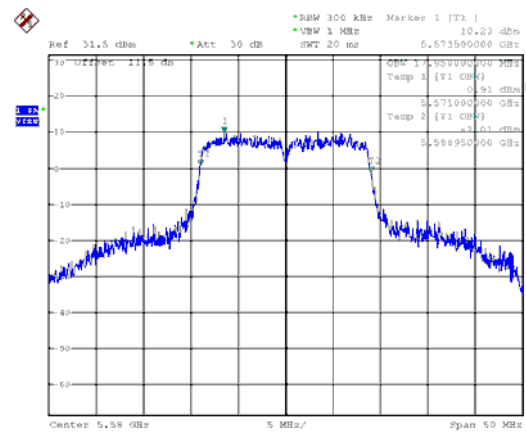
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



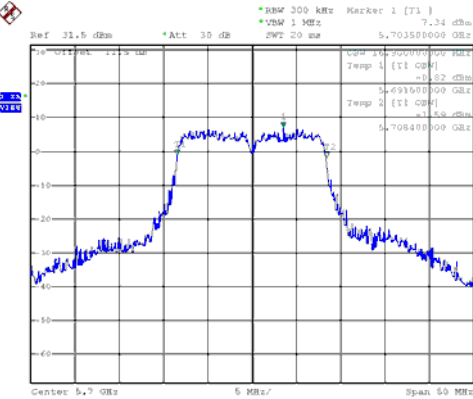
CH116



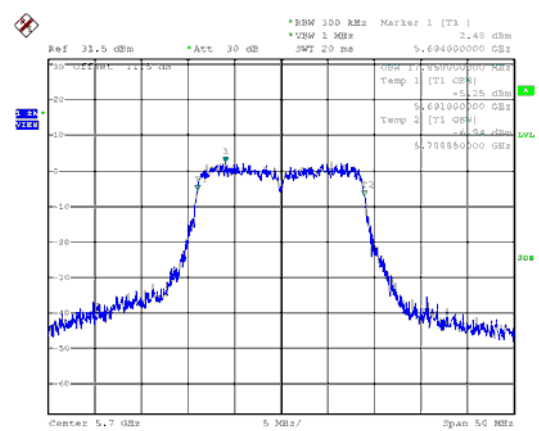
CH116



CH140

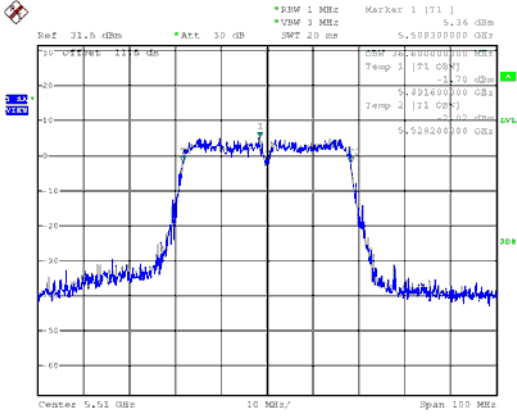


CH140

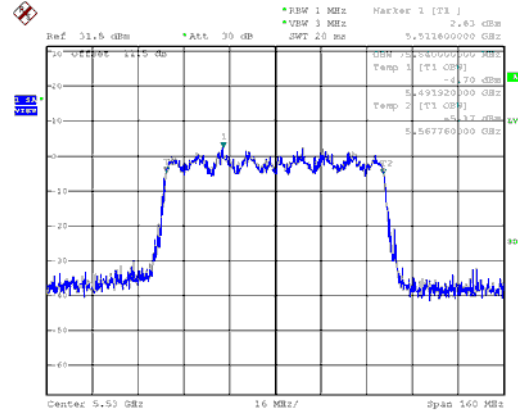




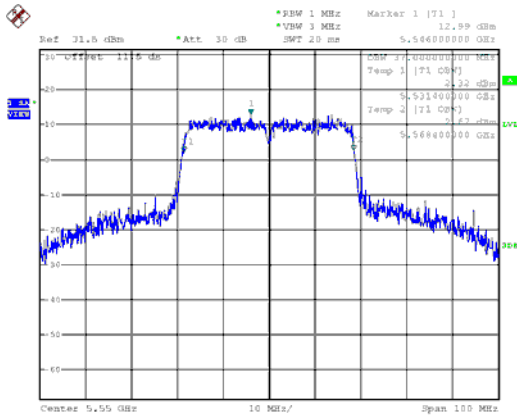
99% Bandwidth Band 3, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



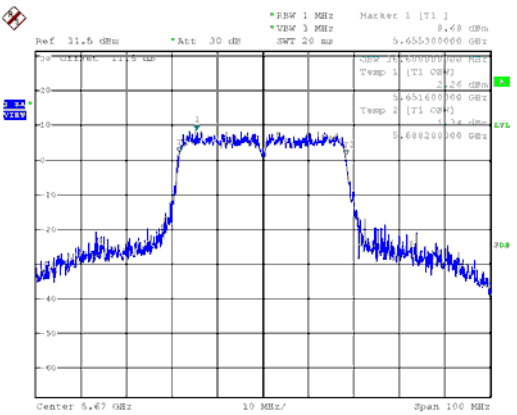
Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH106



CH110

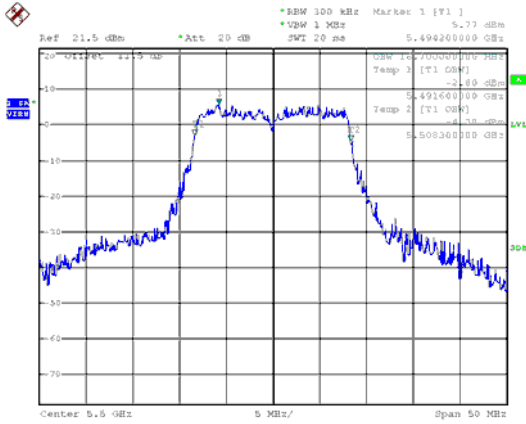


CH134

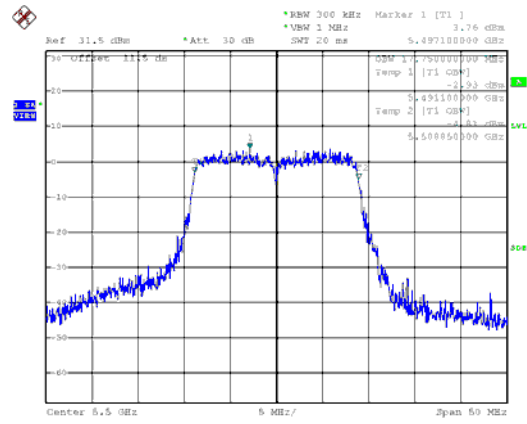




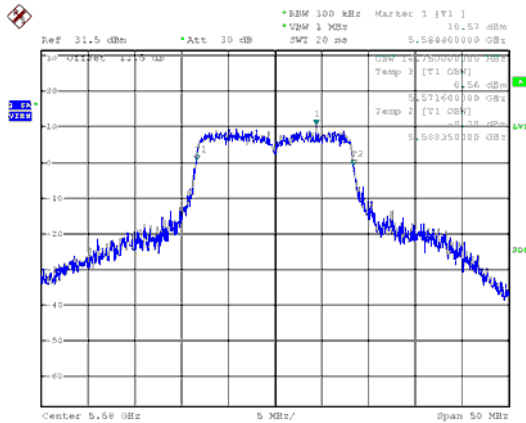
99% Bandwidth Band 3, ANT B
Modulation Type: 802.11a (6Mbps)
CH100



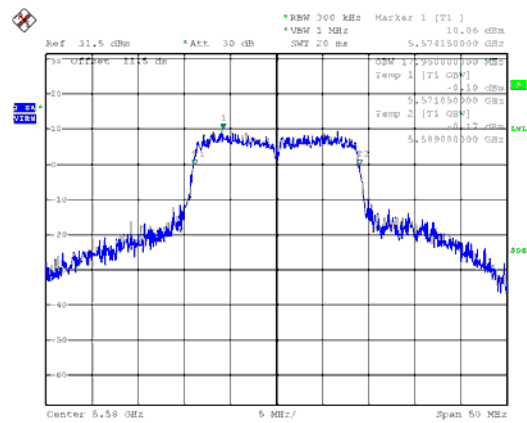
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



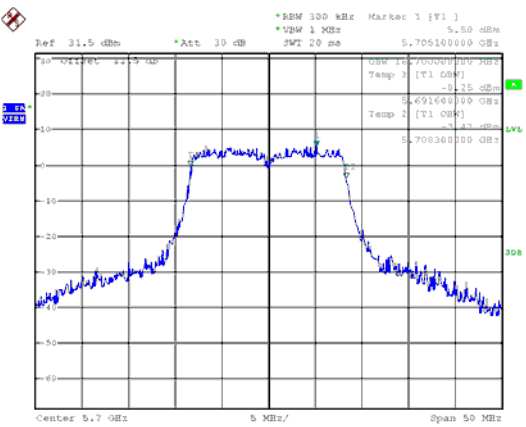
CH116



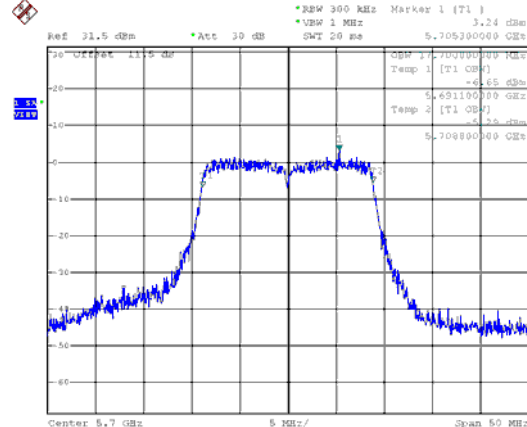
CH116



CH140

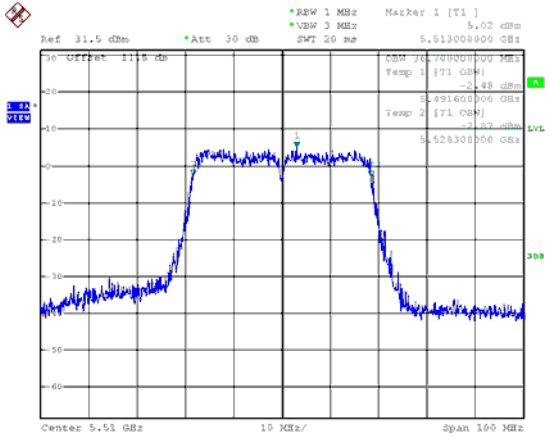


CH140

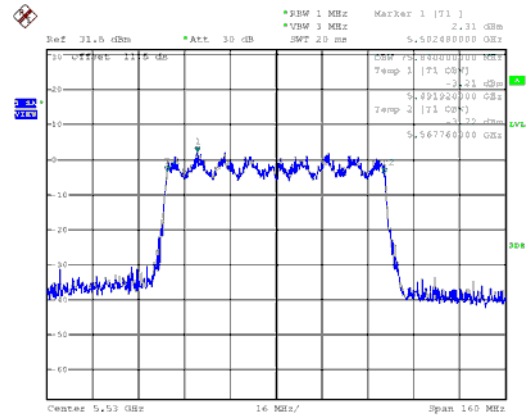




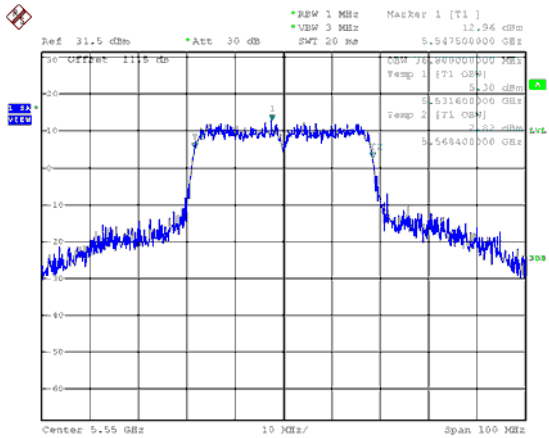
99% Bandwidth Band 3, ANT B
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



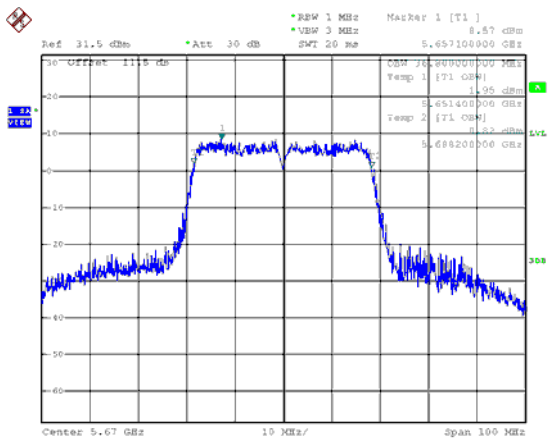
Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH106



CH110



CH134





10. Average Power

10.1. Test Limit

Output Power:

Frequency Band		Limit
<input checked="" type="checkbox"/>	5.15~5.25GHz	
Operating Mode		
<input type="checkbox"/>	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).
<input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.



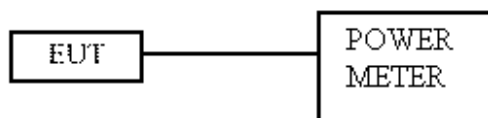
Frequency Band		Limit
<input checked="" type="checkbox"/>	5.25-5.35 GHz	The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional 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.
<input checked="" type="checkbox"/>	5.470-5.725 GHz	
<input checked="" type="checkbox"/>	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

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 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****In the 5.2GHz Band**

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	50/50	36	5180	15.02	15.20	18.12	64.882	24.00
11a	6 Mbps	52/52	44	5220	15.54	15.63	18.60	72.369	24.00
11a	6 Mbps	53/53	48	5240	15.68	15.79	18.75	74.914	24.00
11n HT20	MCS 0	52/52	36	5180	15.47	15.52	18.51	70.882	24.00
11n HT20	MCS 0	54/54	44	5220	15.93	16.22	19.09	81.054	24.00
11n HT20	MCS 0	55/55	48	5240	16.30	16.24	19.28	84.731	24.00
11n HT40	MCS 0	42/42	38	5190	11.20	11.32	14.27	26.734	24.00
11n HT40	MCS 0	62/62	46	5230	17.49	17.57	20.54	113.253	24.00
11ac VHT20	MCS0-NSS1	52/52	36	5180	15.49	15.53	18.52	71.127	24.00
11ac VHT20	MCS0-NSS1	54/54	44	5220	15.95	16.23	19.10	81.331	24.00
11ac VHT20	MCS0-NSS1	55/55	48	5240	16.31	16.25	19.29	84.926	24.00
11ac VHT40	MCS0-NSS1	42/42	38	5190	11.21	11.33	14.28	26.796	24.00
11ac VHT40	MCS0-NSS1	62/62	46	5230	17.51	17.58	20.56	113.643	24.00
11ac VHT80	MCS0-NSS1	38/38	42	5210	8.75	8.62	11.70	14.777	24.00

In the 5.3GHz Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	55/55	52	5260	15.94	15.89	18.93	78.080	24.00
11a	6 Mbps	58/58	60	5300	16.65	16.35	19.51	89.390	24.00
11a	6 Mbps	56/56	64	5320	15.91	15.54	18.74	74.804	24.00
11n HT20	MCS 0	57/57	52	5260	16.78	16.99	19.90	97.647	24.00
11n HT20	MCS 0	59/59	60	5300	17.13	16.75	19.95	98.957	24.00
11n HT20	MCS 0	55/55	64	5320	15.43	15.07	18.26	67.051	24.00
11n HT40	MCS 0	62/62	54	5270	17.18	17.10	20.15	103.526	24.00
11n HT40	MCS 0	42/43	62	5310	10.70	10.96	13.84	24.223	24.00
11ac VHT20	MCS0-NSS1	57/57	52	5260	16.80	17.00	19.91	97.982	24.00
11ac VHT20	MCS0-NSS1	59/59	60	5300	17.15	16.76	19.97	99.304	24.00
11ac VHT20	MCS0-NSS1	55/55	64	5320	15.45	15.08	18.28	67.286	24.00
11ac VHT40	MCS0-NSS1	62/62	54	5270	17.20	17.11	20.17	103.885	24.00
11ac VHT40	MCS0-NSS1	42/43	62	5310	10.71	10.97	13.85	24.279	24.00
11ac VHT80	MCS0-NSS1	39/40	58	5290	8.89	9.48	12.21	16.616	24.00

**In the 5.5GHz Band**

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	49/50	100	5500	15.00	14.65	17.84	60.797	24.00
11a	6 Mbps	57/58	116	5580	17.52	17.11	20.33	107.898	24.00
11a	6 Mbps	56/56	140	5700	16.33	15.07	18.76	75.090	24.00
11n HT20	MCS 0	44/45	100	5500	12.65	11.98	15.34	34.184	24.00
11n HT20	MCS 0	60/61	116	5580	18.37	17.84	21.12	129.520	24.00
11n HT20	MCS 0	46/47	140	5700	12.66	11.83	15.28	33.691	24.00
11n HT40	MCS 0	39/40	102	5510	10.44	10.45	13.46	22.158	24.00
11n HT40	MCS 0	58/59	110	5550	18.49	18.41	21.46	139.974	24.00
11n HT40	MCS 0	51/52	134	5670	15.53	14.90	18.24	66.630	24.00
11ac VHT20	MCS0-NSS1	44/45	100	5500	12.67	12.00	15.36	34.342	24.00
11ac VHT20	MCS0-NSS1	60/61	116	5580	18.39	17.85	21.14	129.978	24.00
11ac VHT20	MCS0-NSS1	46/47	140	5700	12.68	11.85	15.30	33.846	24.00
11ac VHT40	MCS0-NSS1	39/40	102	5510	10.45	10.46	13.47	22.209	24.00
11ac VHT40	MCS0-NSS1	58/59	110	5550	18.50	18.43	21.48	140.457	24.00
11ac VHT40	MCS0-NSS1	51/52	134	5670	15.54	14.92	18.25	66.855	24.00
11ac VHT80	MCS0-NSS1	37/38	106	5530	9.31	8.77	12.06	16.065	24.00

In the 5.8GHz Band

Modulation Type	Data Rate	Setting	Channel	Frequency (MHz)	Measured value of each antenna port (dBm)		Total power (dBm)	Total power (mW)	FCC Limit (dBm)
					ANT A	ANT B			
11a	6 Mbps	61/63	149	5745	17.56	17.41	20.50	112.097	30.00
11a	6 Mbps	61/63	157	5785	17.78	17.39	20.60	114.807	30.00
11a	6 Mbps	61/63	165	5825	17.67	17.56	20.63	115.495	30.00
11n HT20	MCS 0	61/63	149	5745	17.74	17.50	20.63	115.663	30.00
11n HT20	MCS 0	61/63	157	5785	17.65	17.32	20.50	112.161	30.00
11n HT20	MCS 0	61/63	165	5825	17.77	17.43	20.61	115.176	30.00
11n HT40	MCS 0	61/63	151	5755	17.85	17.37	20.63	115.529	30.00
11n HT40	MCS 0	61/63	159	5795	17.70	17.72	20.72	118.041	30.00
11ac VHT20	MCS0-NSS1	61/63	149	5745	17.76	17.51	20.65	116.067	30.00
11ac VHT20	MCS0-NSS1	61/63	157	5785	17.66	17.34	20.51	112.545	30.00
11ac VHT20	MCS0-NSS1	61/63	165	5825	17.78	17.45	20.63	115.570	30.00
11ac VHT40	MCS0-NSS1	61/63	151	5755	17.86	17.38	20.64	115.796	30.00
11ac VHT40	MCS0-NSS1	61/63	159	5795	17.71	17.73	20.73	118.313	30.00
11ac VHT80	MCS0-NSS1	53/55	155	5775	15.79	15.07	18.46	70.068	30.00



11. Maximum Power Spectral Density

11.1. Test Limit

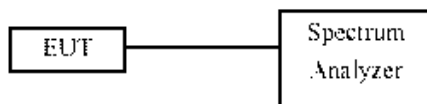
PSD:

Frequency Band	Limit
<input checked="" type="checkbox"/> 5.15~5.25GHz	
Operating Mode	
<input type="checkbox"/> Outdoor access point	17 dBm/MHz
<input type="checkbox"/> Indoor access point	17 dBm/MHz
<input type="checkbox"/> Fixed point-to-point access points	17 dBm/MHz
<input checked="" type="checkbox"/> client devices	11 dBm/MHz
<input checked="" type="checkbox"/> 5.250~5.350 GHz	11 dBm/MHz
<input checked="" type="checkbox"/> 5.470~5.725 GHz	11 dBm/MHz
<input checked="" type="checkbox"/> 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

In the 5.2GHz Band

Modulation Type	CH	Freq. (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				
802.11a	36	5180	3.48	3.22	6.36	0.12	6.48	11.00
	44	5220	2.99	3.11	6.06	0.12	6.18	11.00
	48	5240	3.33	3.04	6.20	0.12	6.32	11.00
802.11ac VHT20	36	5180	2.77	2.96	5.88	0.13	6.01	11.00
	44	5220	3.24	3.30	6.28	0.13	6.41	11.00
	48	5240	3.66	3.71	6.70	0.13	6.83	11.00
802.11ac VHT40	38	5190	-4.02	-3.96	-0.98	0.42	-0.56	11.00
	46	5230	3.01	2.70	5.87	0.42	6.29	11.00
802.11ac VHT80	42	5210	-9.14	-9.31	-6.21	0.48	-5.73	11.00

In the 5.3GHz Band

Modulation Type	CH	Freq. (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				
802.11a	52	5260	4.90	4.72	7.82	0.12	7.94	11.00
	60	5300	5.62	5.93	8.79	0.12	8.91	11.00
	64	5320	4.00	3.53	6.78	0.12	6.90	11.00
802.11ac VHT20	52	5260	4.48	4.23	7.37	0.13	7.50	11.00
	60	5300	5.19	4.58	7.91	0.13	8.04	11.00
	64	5320	3.57	3.22	6.41	0.13	6.54	11.00
802.11ac VHT40	54	5270	3.22	2.89	6.07	0.42	6.49	11.00
	62	5310	-4.81	-4.82	-1.80	0.42	-1.38	11.00
802.11ac VHT80	58	5290	-8.64	-8.07	-5.34	0.48	-4.86	11.00

**In the 5.5GHz Band**

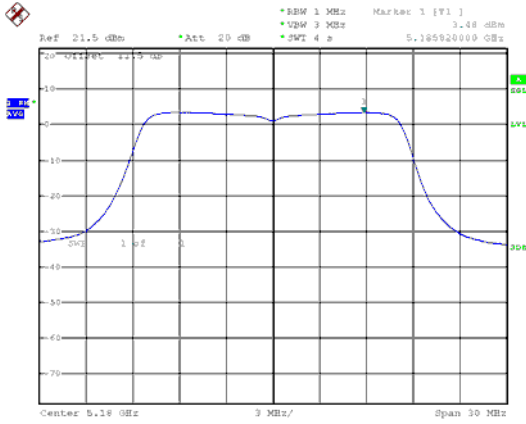
Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	Total Corr'd PSD (dBm/MHz)	PSD Limit (dBm/MHz)
			ANT A	ANT B				
11a	100	5500	4.24	3.78	7.03	0.12	7.15	11.00
11a	116	5580	7.90	7.57	10.75	0.12	10.87	11.00
11a	140	5700	5.34	4.33	7.87	0.12	7.99	11.00
11ac VHT20	100	5500	1.75	1.13	4.46	0.13	4.59	11.00
11ac VHT20	116	5580	7.44	7.04	10.25	0.13	10.38	11.00
11ac VHT20	140	5700	0.94	0.02	3.51	0.13	3.64	11.00
11ac VHT40	102	5510	-3.87	-3.68	-0.76	0.42	-0.34	11.00
11ac VHT40	110	5550	3.44	2.89	6.18	0.42	6.60	11.00
11ac VHT40	134	5670	0.70	-0.02	3.37	0.42	3.79	11.00
11ac VHT80	106	5530	-7.20	-7.76	-4.46	0.48	-3.98	11.00

In the 5.8GHz Band

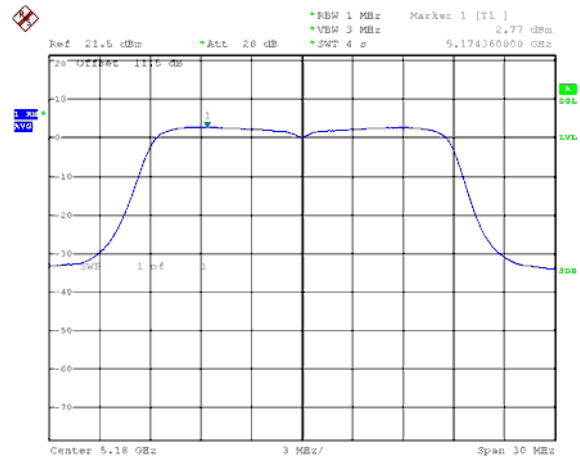
Modulation Type	Channel (MHz)	Frequency (MHz)	Meas PSD (dBm/MHz)		Sum chain (dBm)	Duty Cycle CF(dB)	10log (500KHz/RBW) CF (dB)	Total Corr'd PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)
			ANT A	ANT B					
11a	149	5745	7.75	7.33	10.56	0.12	-3.01	7.67	30.00
11a	157	5785	7.04	6.47	9.77	0.12	-3.01	6.88	30.00
11a	165	5825	6.80	6.38	9.61	0.12	-3.01	6.72	30.00
11ac VHT20	149	5745	6.56	5.95	9.28	0.13	-3.01	6.40	30.00
11ac VHT20	157	5785	6.37	5.95	9.18	0.13	-3.01	6.30	30.00
11ac VHT20	165	5825	6.36	5.81	9.10	0.13	-3.01	6.22	30.00
11ac VHT40	151	5755	3.62	3.06	6.36	0.42	-3.01	3.77	30.00
11ac VHT40	159	5795	3.46	2.79	6.15	0.42	-3.01	3.56	30.00
11ac VHT80	155	5775	0.98	0.50	3.76	0.48	-3.01	1.23	30.00



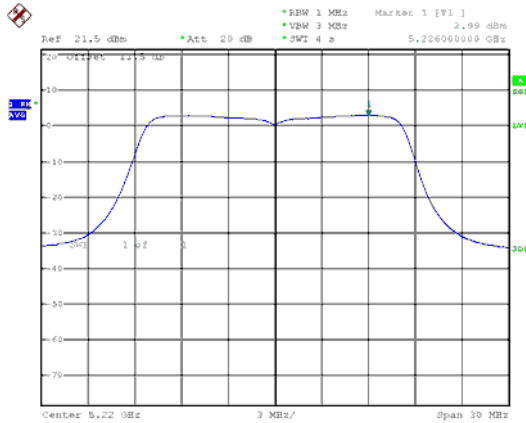
Band 1, ANT A
Modulation Type: 802.11a (6Mbps)
CH36



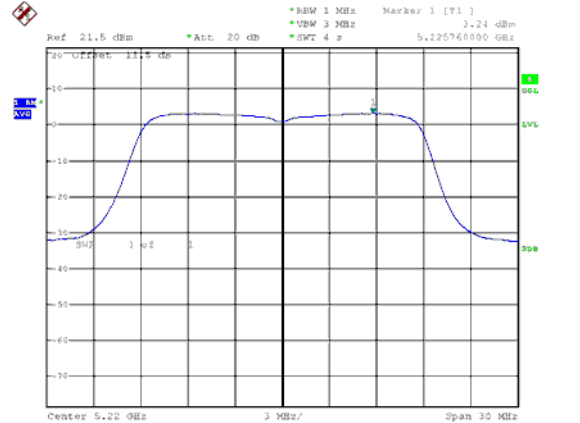
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



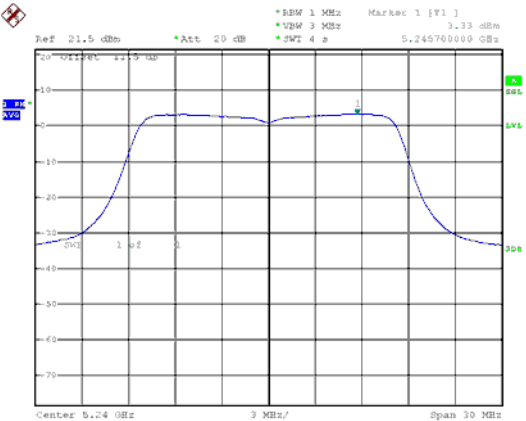
CH44



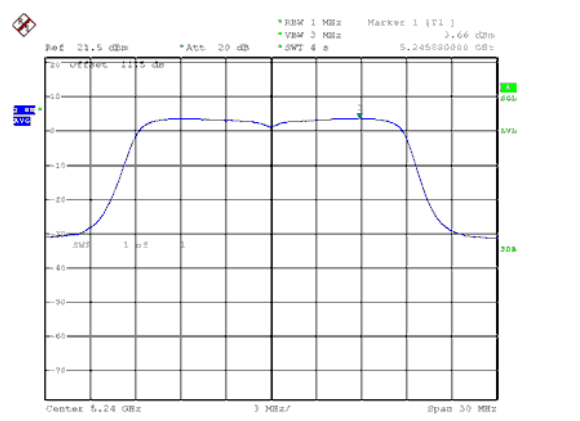
CH44



CH48

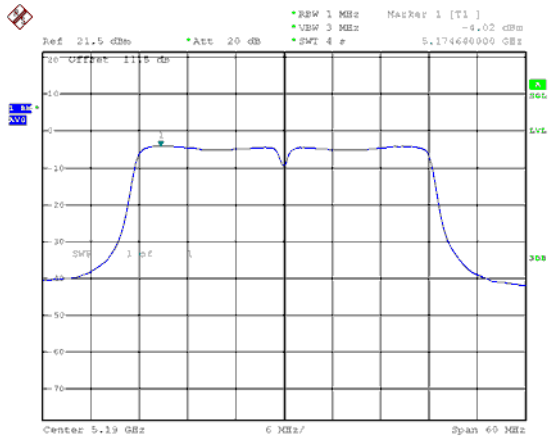


CH48

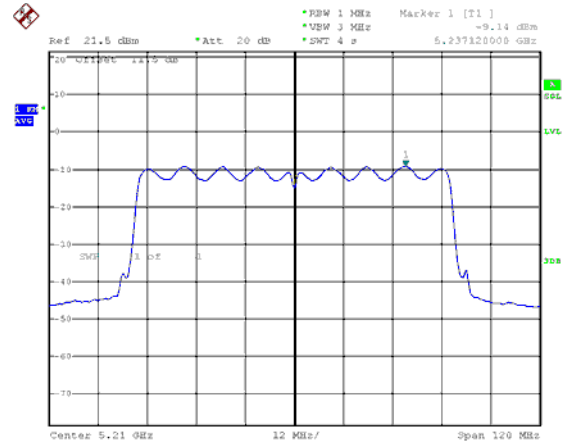




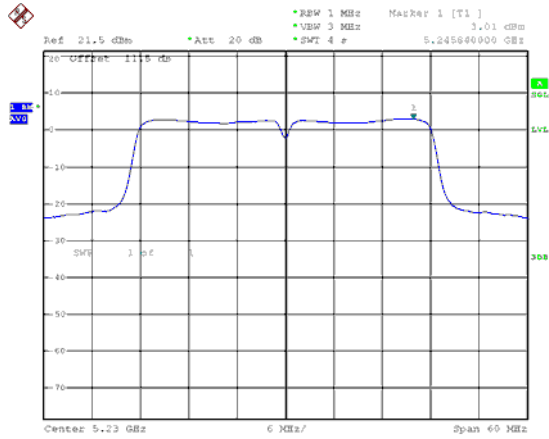
Band 1, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42



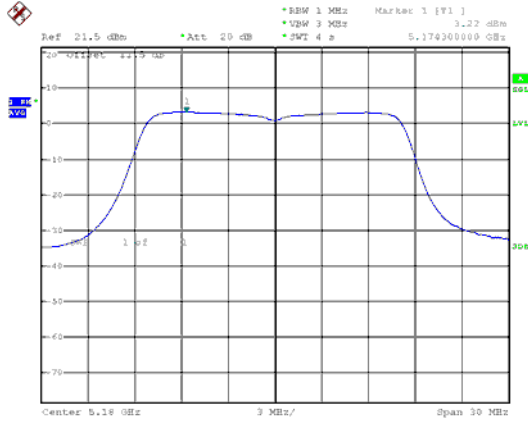
CH46



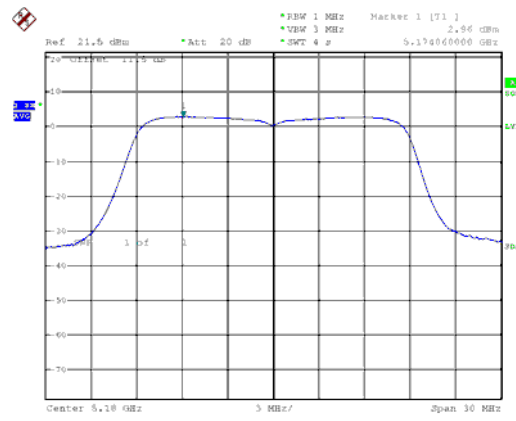


Band 1, ANT B

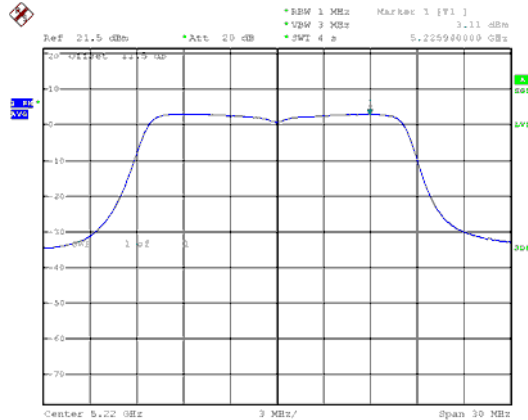
Modulation Type: 802.11a (6Mbps)
CH36



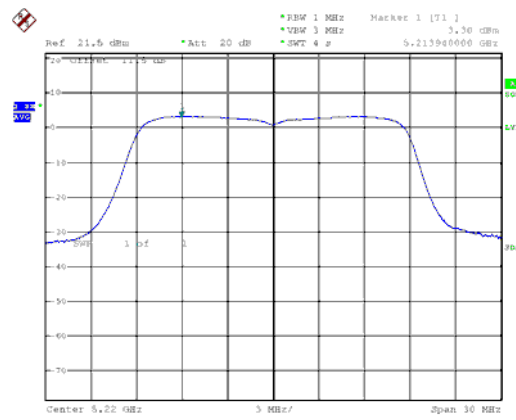
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH36



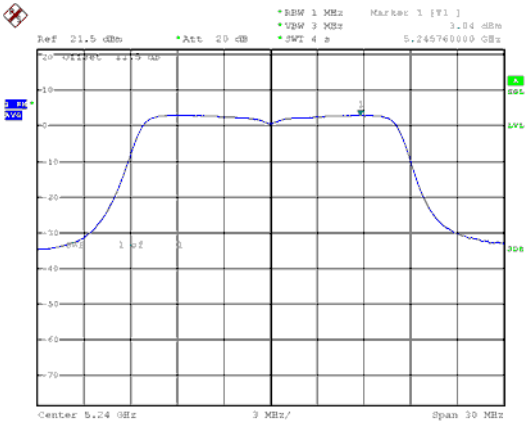
CH44



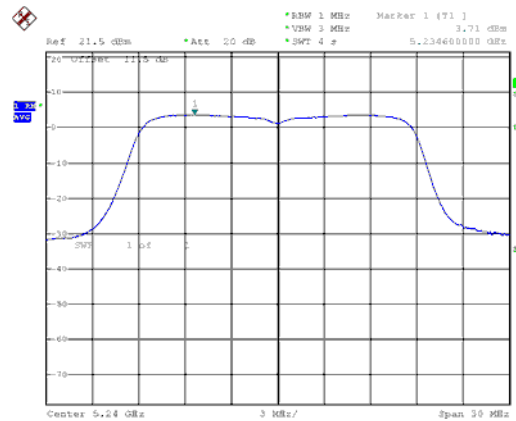
CH44



CH48



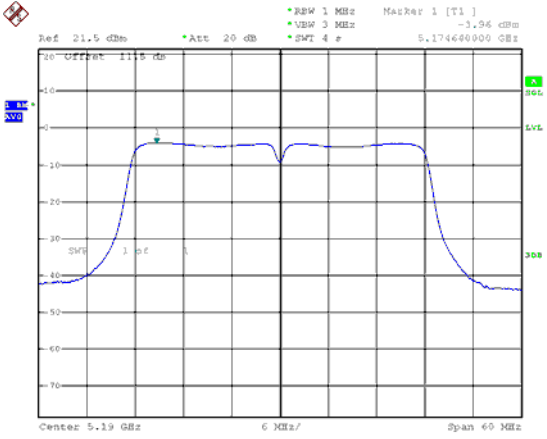
CH48



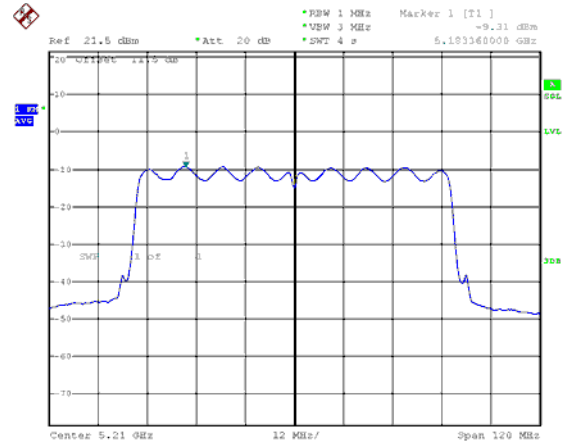


Band 1, ANT B

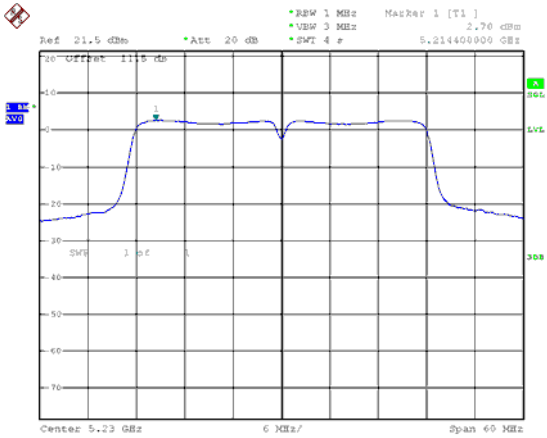
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH38



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH42

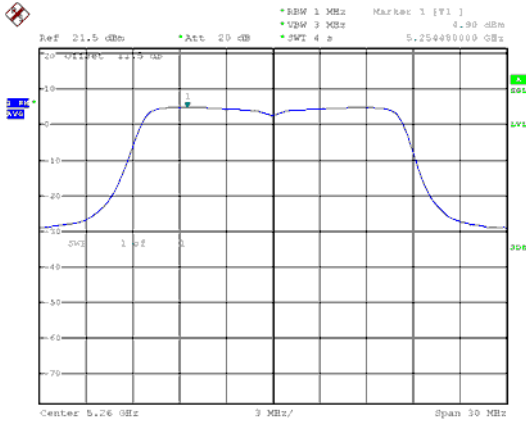


CH46

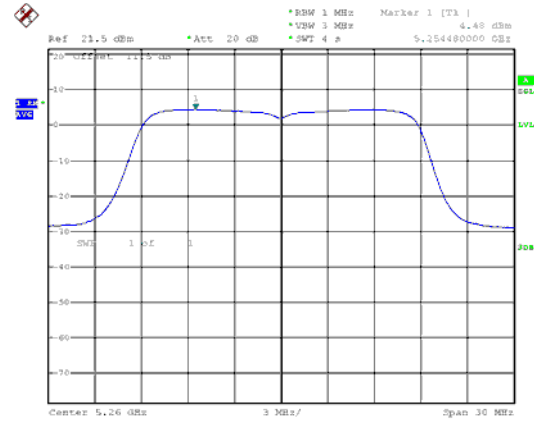




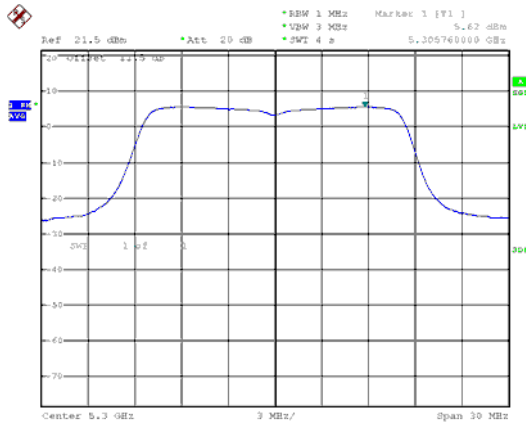
Band 2, ANT A
Modulation Type: 802.11a (6Mbps)
CH52



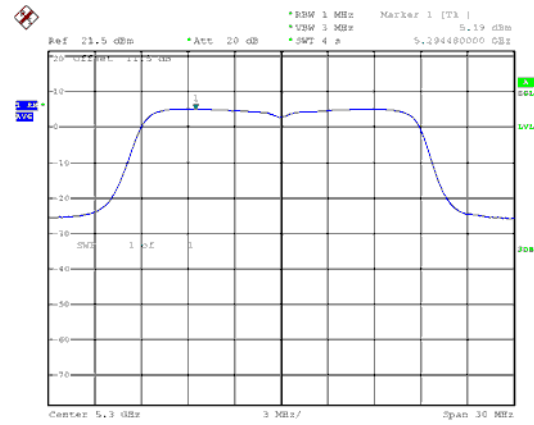
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



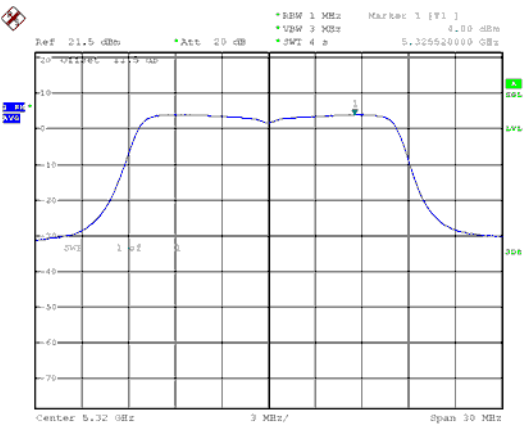
CH60



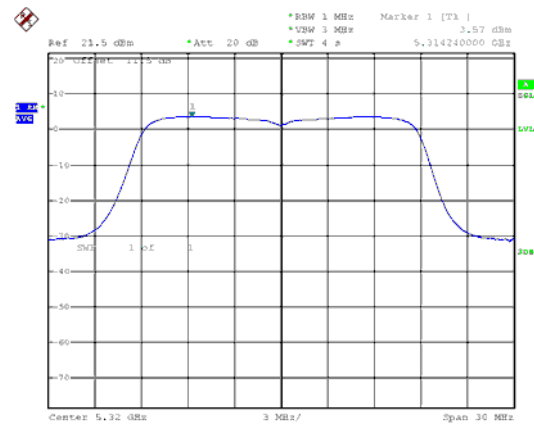
CH60



CH64

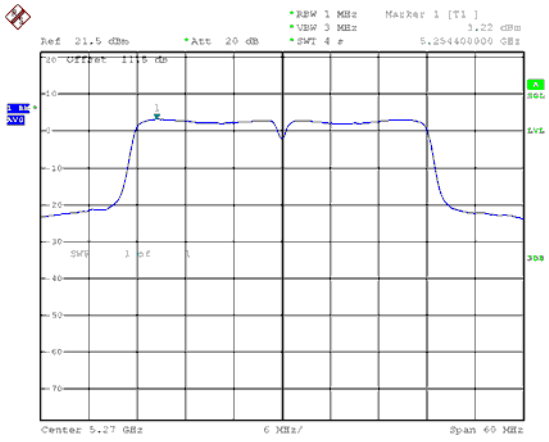


CH64

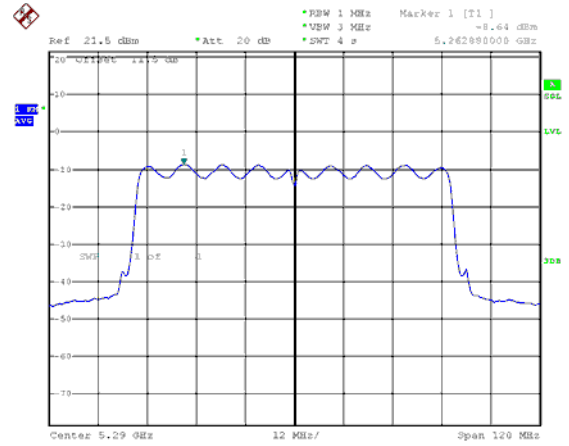




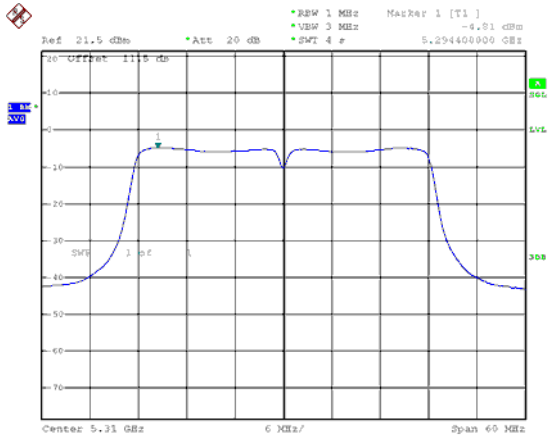
Band 2, ANT A
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58



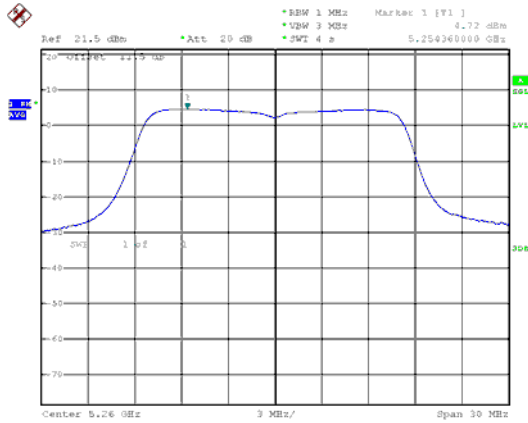
CH62



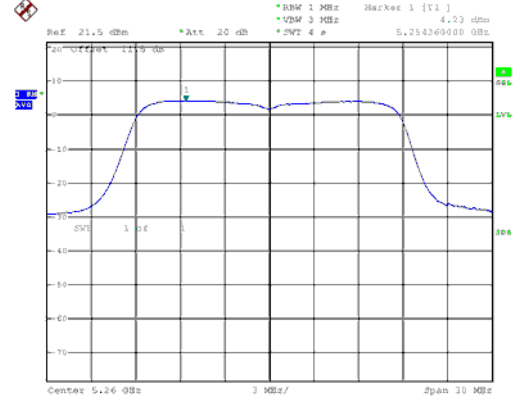


Band 2, ANT B

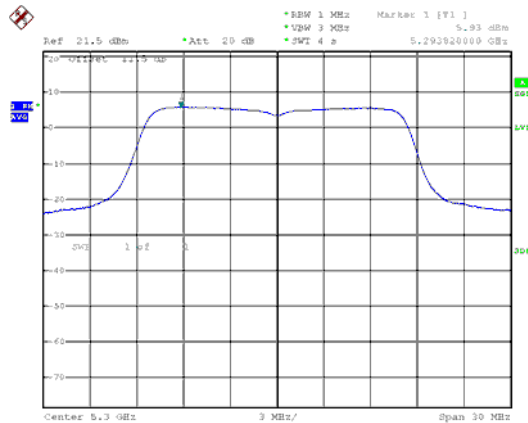
Modulation Type: 802.11a (6Mbps)
CH52



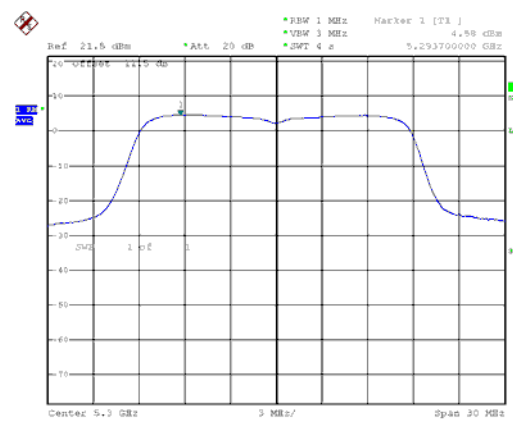
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH52



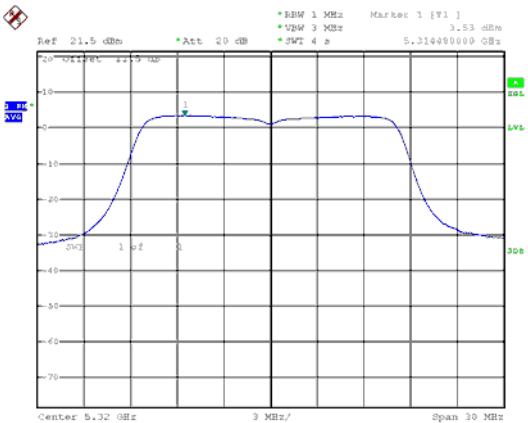
CH60



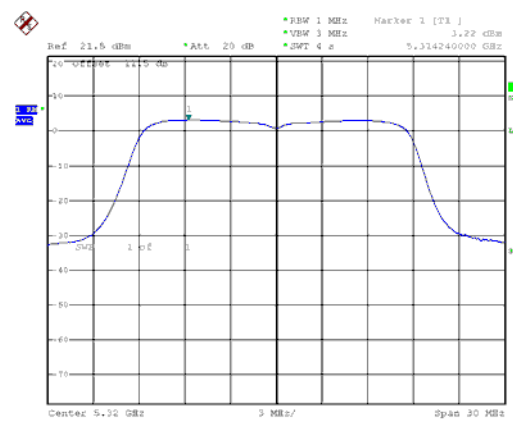
CH60



CH64



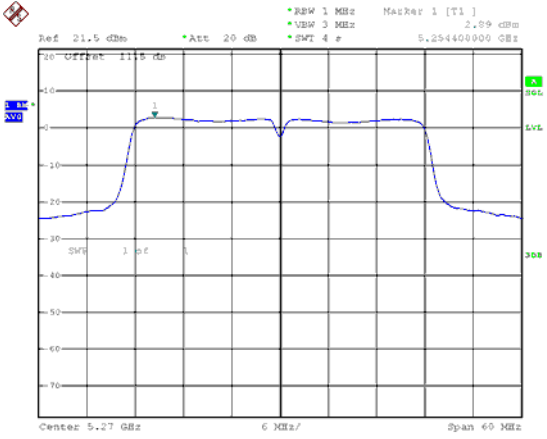
CH64



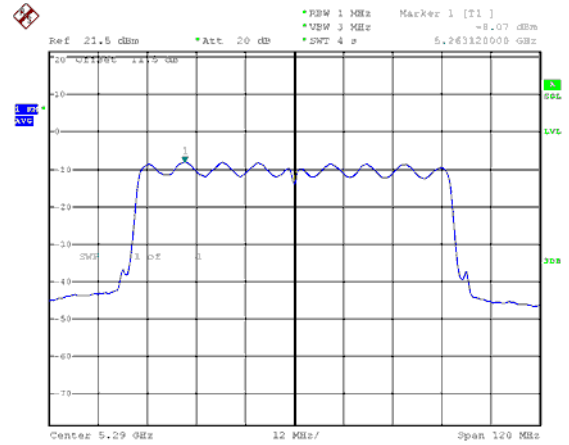


Band 2, ANT B

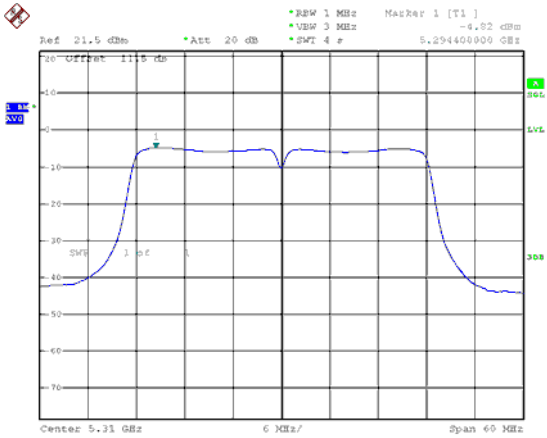
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH54



Modulation Type: 802.11ac VHT80 (13.5Mbps)
CH58

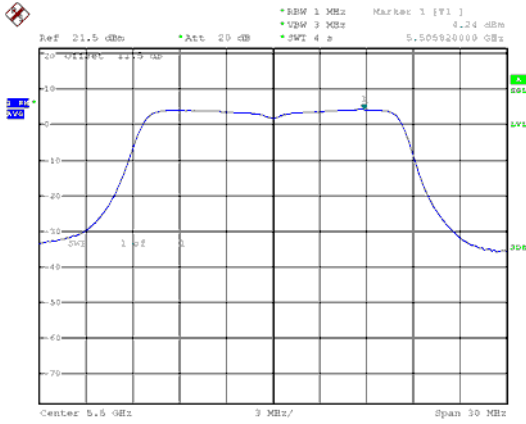


CH62

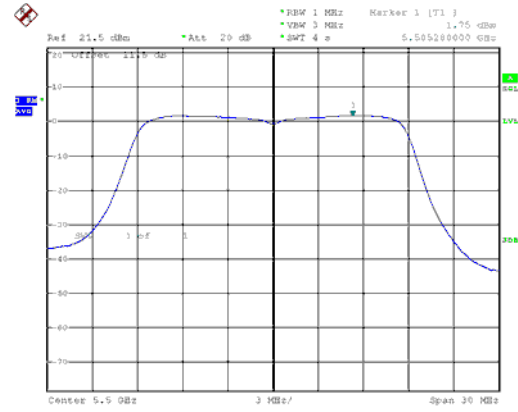




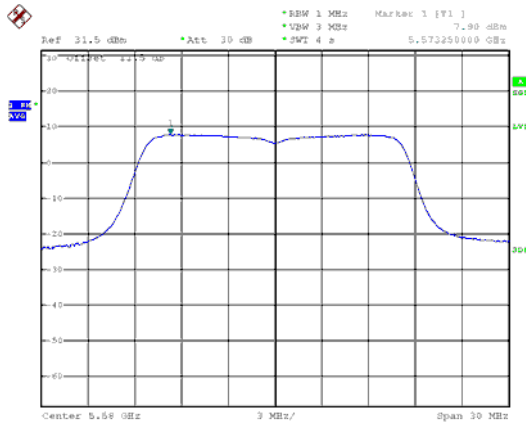
Band 3, ANT A
Modulation Type: 802.11a (6Mbps)
CH100



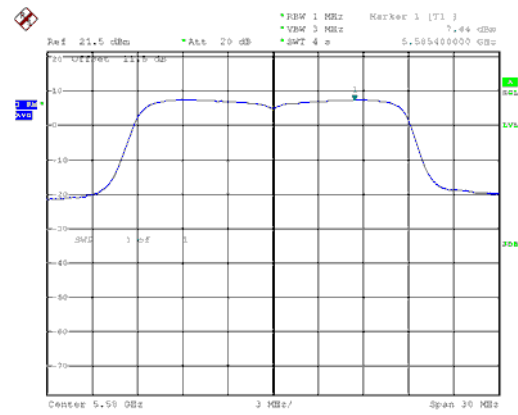
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



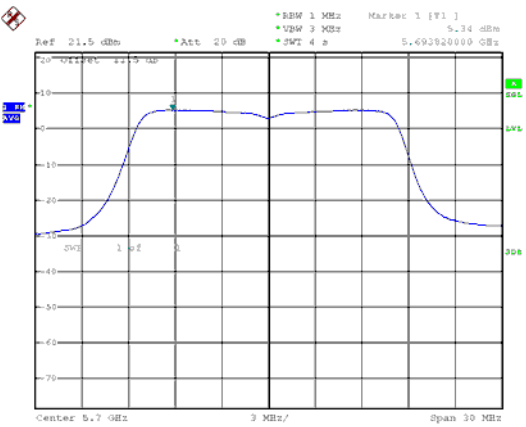
CH116



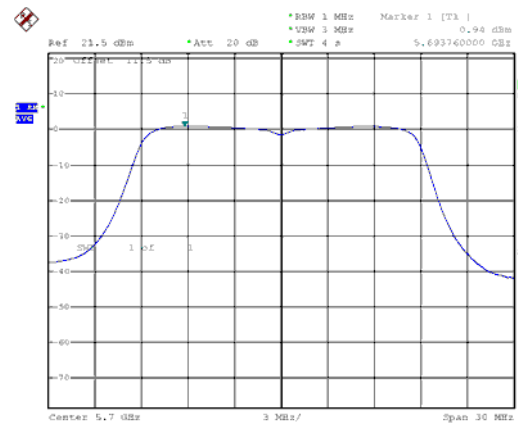
CH116



CH140

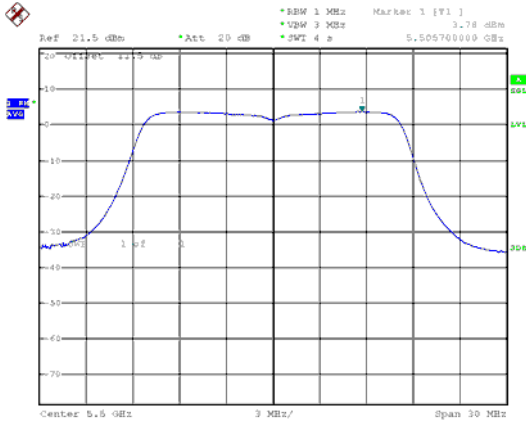


CH140

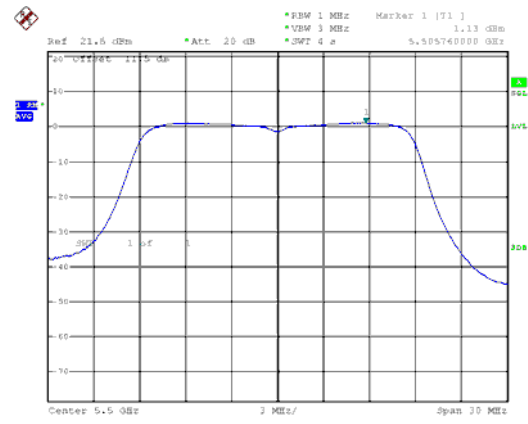




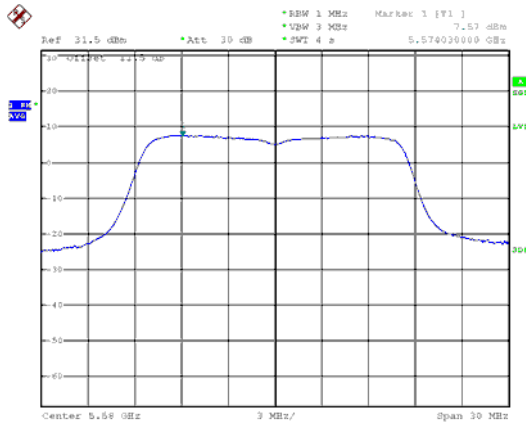
Band 3, ANT B
Modulation Type: 802.11a (6Mbps)
CH100



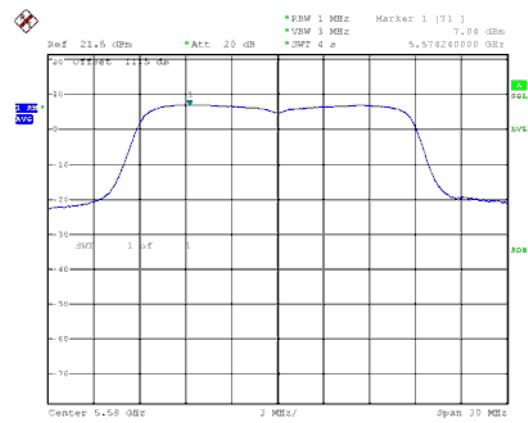
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH100



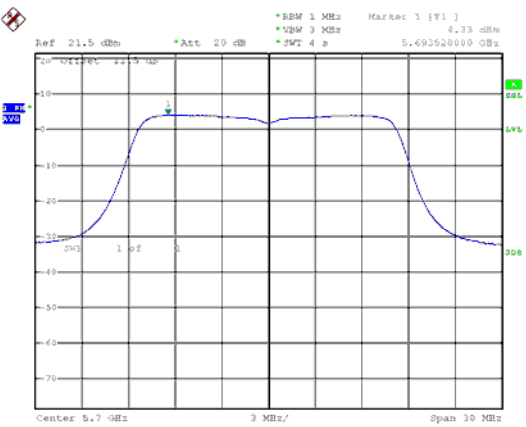
CH116



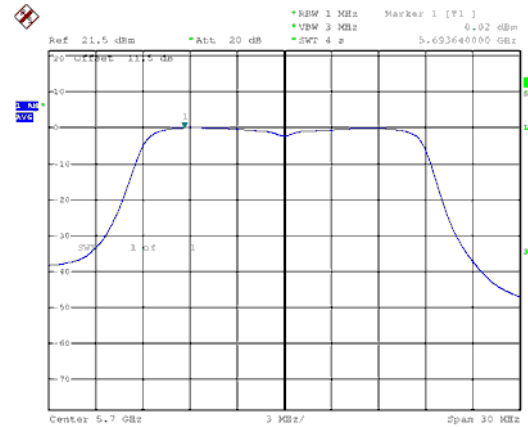
CH116



CH140

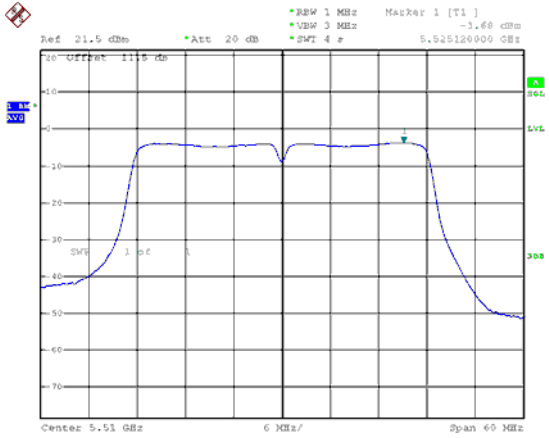


CH140

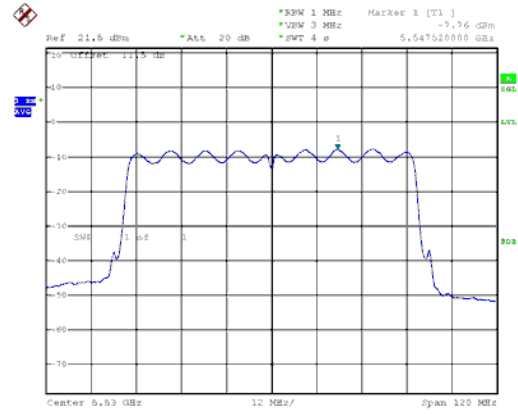




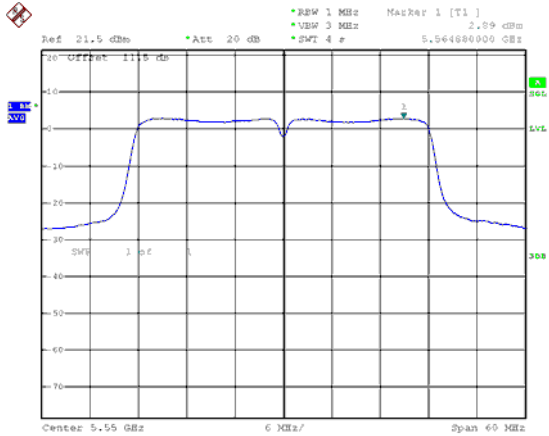
Band 3, ANT B
Modulation Type: 802.11ac VHT40 (6.5Mbps)
CH102



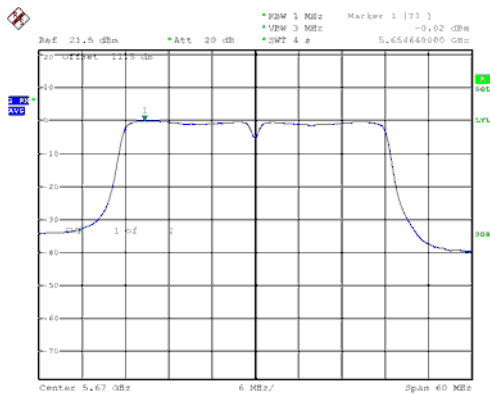
Modulation Type: 802.11ac VHT80 (6.5Mbps)
CH106



CH110

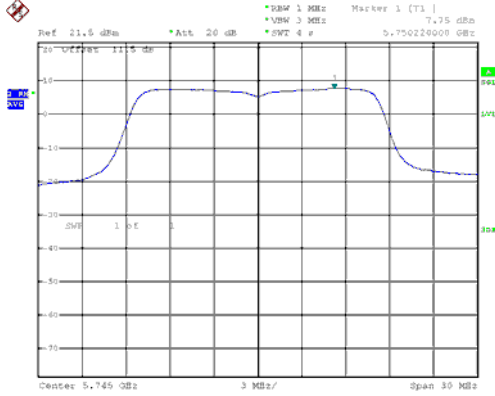


CH134

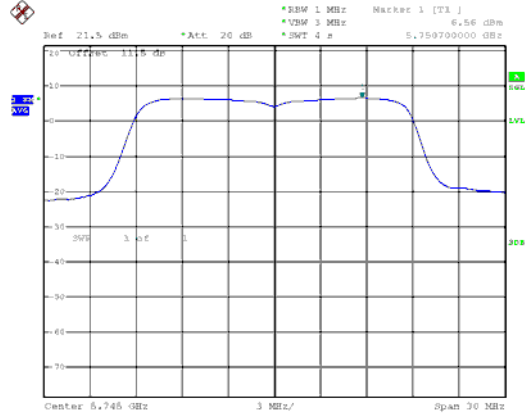




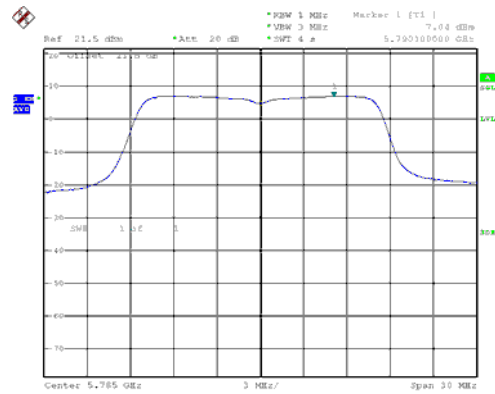
Band 4, ANT A
Modulation Type: 802.11a (6Mbps)
CH149



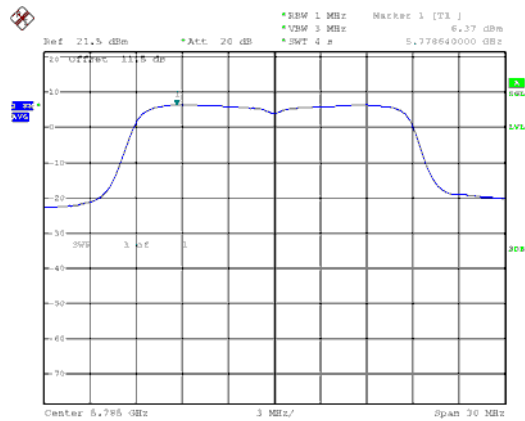
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149



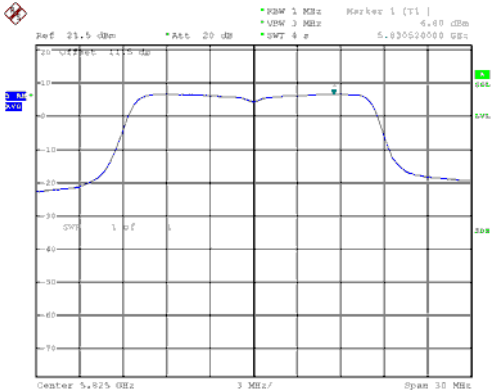
CH157



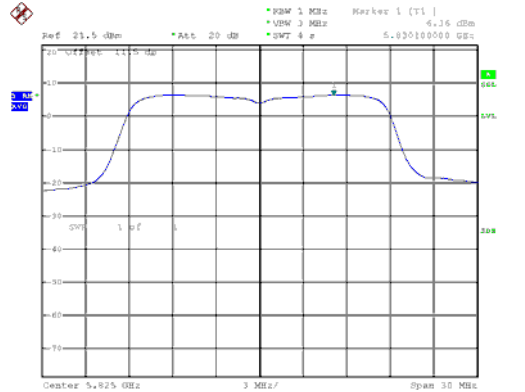
CH157



CH165

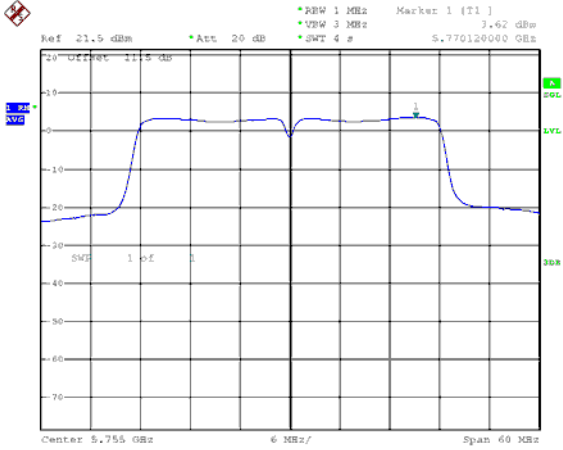


CH165

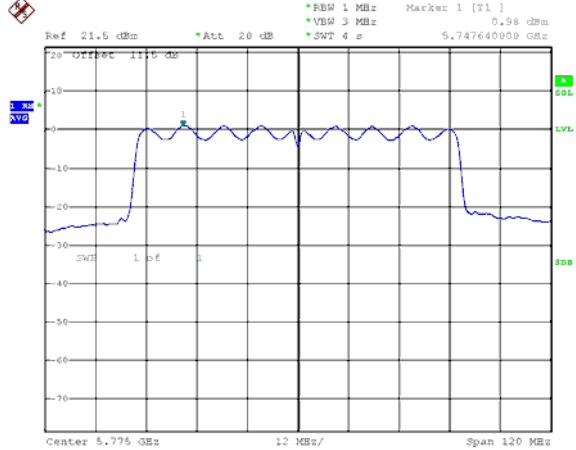




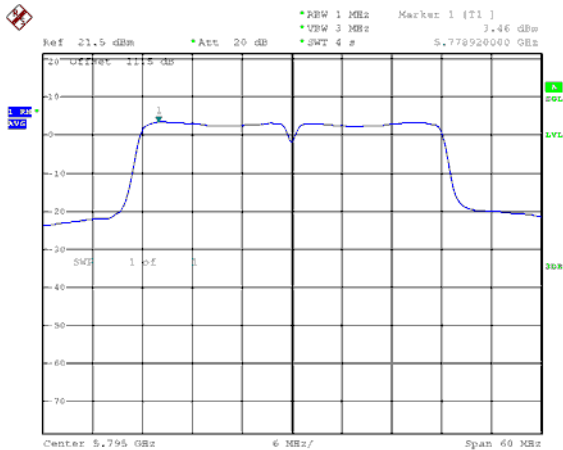
Band 4, ANT A
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155

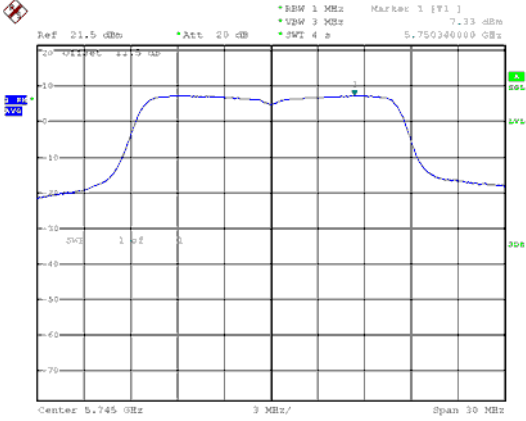


CH159

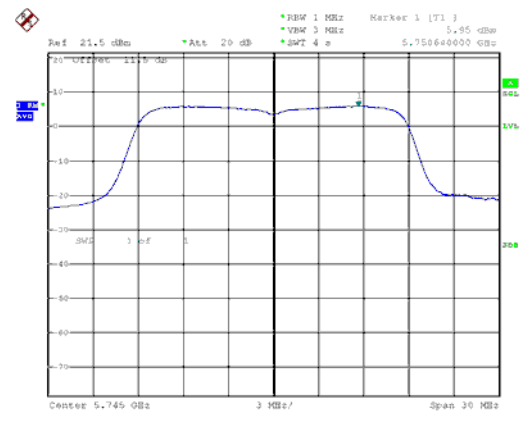




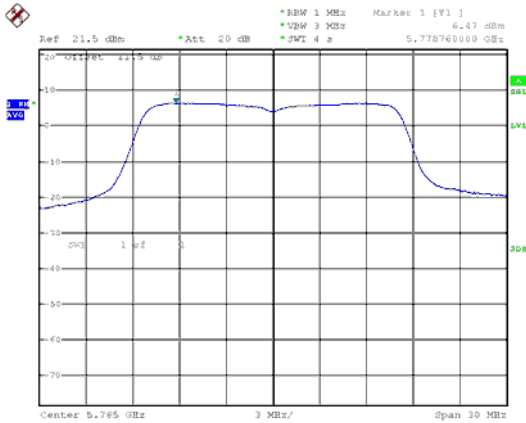
Band 4, ANT B
Modulation Type: 802.11a (6Mbps)
CH149



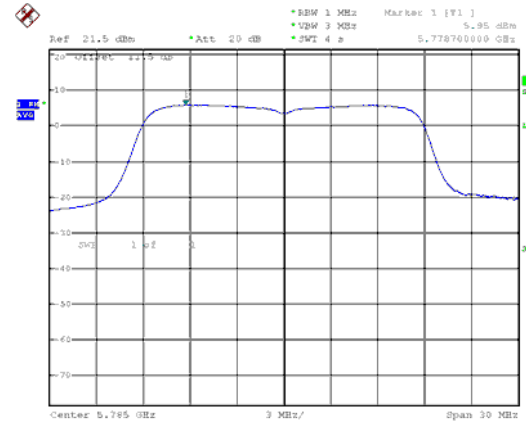
Modulation Type: 802.11ac VHT20 (6.5Mbps)
CH149



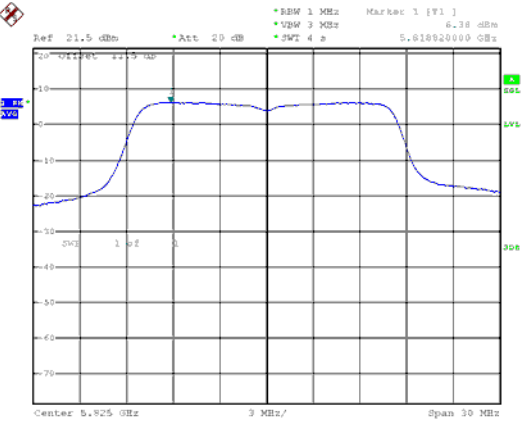
CH157



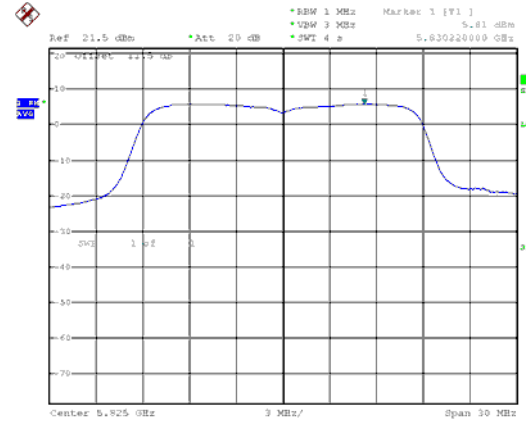
CH157



CH165

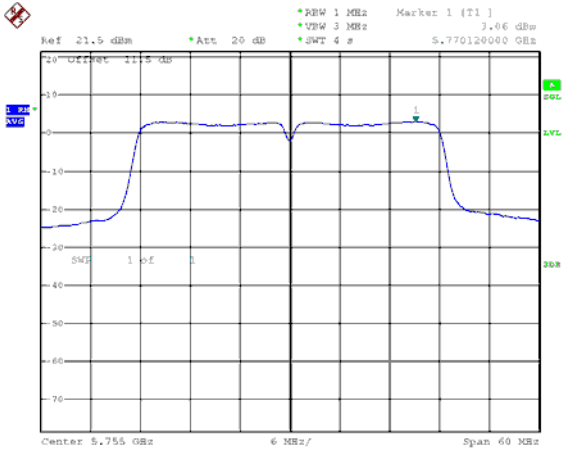


CH165

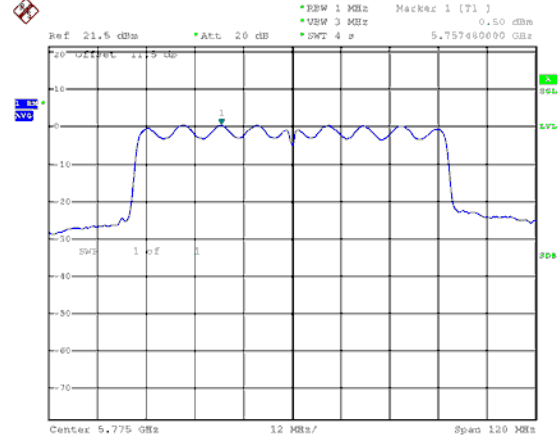




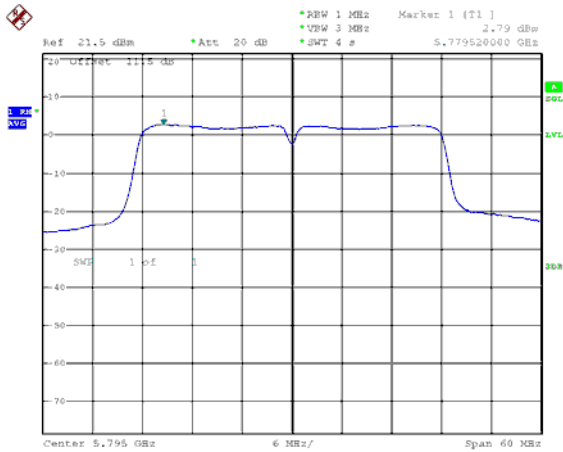
Band 4, ANT A
Modulation Type: 802.11ac VHT40 (13.5Mbps)
CH151



Modulation Type: 802.11ac VHT80 (29.3Mbps)
CH155



CH159



Da

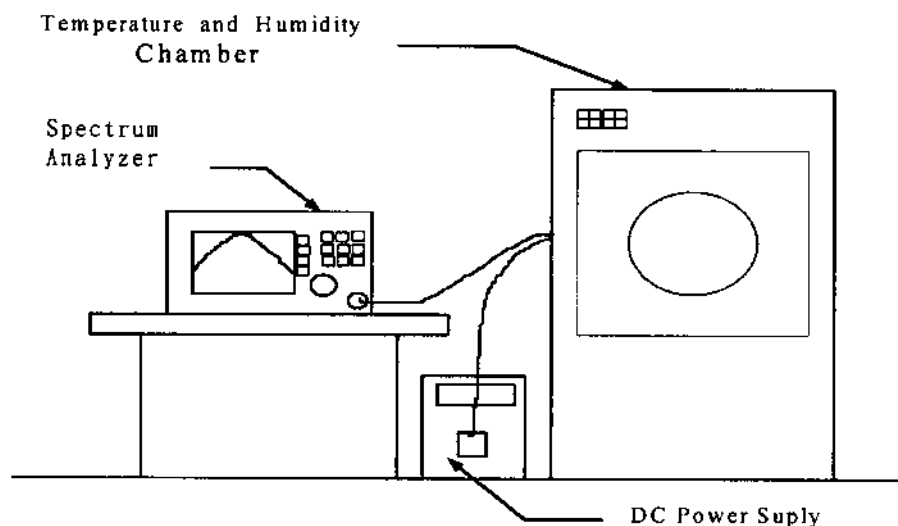


12. Frequency Stability

12.1. Test Procedure

1. The EUT was placed inside the Temperature and Humidity chamber.
2. The transmitter output was connected to spectrum analyzer.
3. Turn the EUT on and couple its output to a spectrum analyzer.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
6. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
7. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

12.2. Test Setup Layout



**12.3. Test Result and Data**

Operating frequency: 5745 MHz							
Temp	Power supply	2 minute		5 minute		10 minute	
(°C)	(V)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	102	5745.0678	0.000718	5745.0489	-0.001565	5745.0694	0.001723
	120	5744.9197	-0.000028	5744.9127	0.000709	5745.0024	-0.001598
	138	5744.9006	-0.001546	5745.0076	0.000155	5745.0840	-0.000146
40	102	5744.9695	0.000896	5744.9088	-0.001554	5745.0271	0.000888
	120	5744.9018	0.001466	5744.9030	-0.000589	5745.0823	0.000430
	138	5745.0088	0.001655	5745.0688	0.001374	5744.9211	0.001478
30	102	5745.0012	0.000811	5745.0279	-0.001113	5745.0865	-0.001875
	120	5744.9497	0.000359	5745.0415	-0.001137	5745.0735	0.000496
	138	5744.9026	0.001490	5745.0760	-0.000033	5744.9408	0.001596
20	102	5744.9897	-0.000791	5744.9033	-0.000003	5745.0477	0.001405
	120	5745.0986	0.000817	5745.0517	0.001190	5745.0917	0.000215
	138	5745.0524	0.000068	5744.9289	-0.000594	5744.9538	-0.000723
10	102	5745.0275	0.000282	5744.9362	0.001756	5744.9617	0.001574
	120	5745.0902	-0.000005	5744.9714	0.001390	5744.9679	0.001198
	138	5744.9907	0.000908	5745.0266	-0.000398	5744.9984	-0.001559
0	102	5744.9571	-0.001293	5744.9581	-0.001718	5745.0033	0.001926
	120	5744.9252	0.001814	5745.0516	0.000699	5744.9994	0.000372
	138	5745.0146	-0.000369	5745.0119	0.001821	5745.0256	-0.001754
-10	102	5745.0747	-0.000094	5744.9884	-0.000288	5744.9731	-0.001682
	120	5745.0723	0.000243	5744.9836	-0.000961	5744.9653	-0.000208
	138	5744.9137	0.001384	5745.0251	-0.000597	5745.0174	-0.000035
-20	102	5745.0449	0.001624	5745.0437	-0.001356	5745.0322	-0.000359
	120	5745.0931	0.000470	5745.0875	0.001890	5744.9750	0.000352
	138	5744.9108	-0.000009	5744.9521	-0.000322	5745.0797	-0.000861
-30	102	5744.9101	0.000717	5745.0058	-0.000533	5744.9468	0.000202
	120	5745.0784	0.000696	5744.9257	-0.000802	5744.9023	0.000641
	138	5745.0501	0.001518	5744.9625	0.000775	5745.0987	-0.000563

Limit:

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.