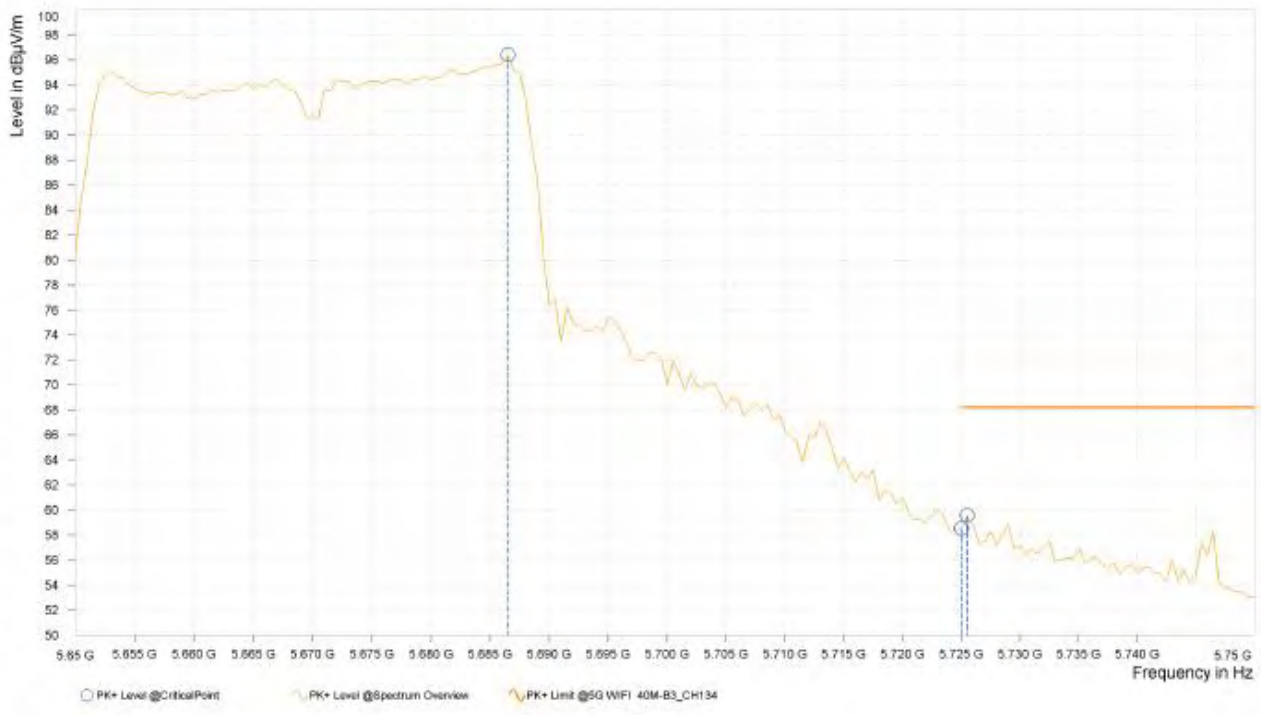


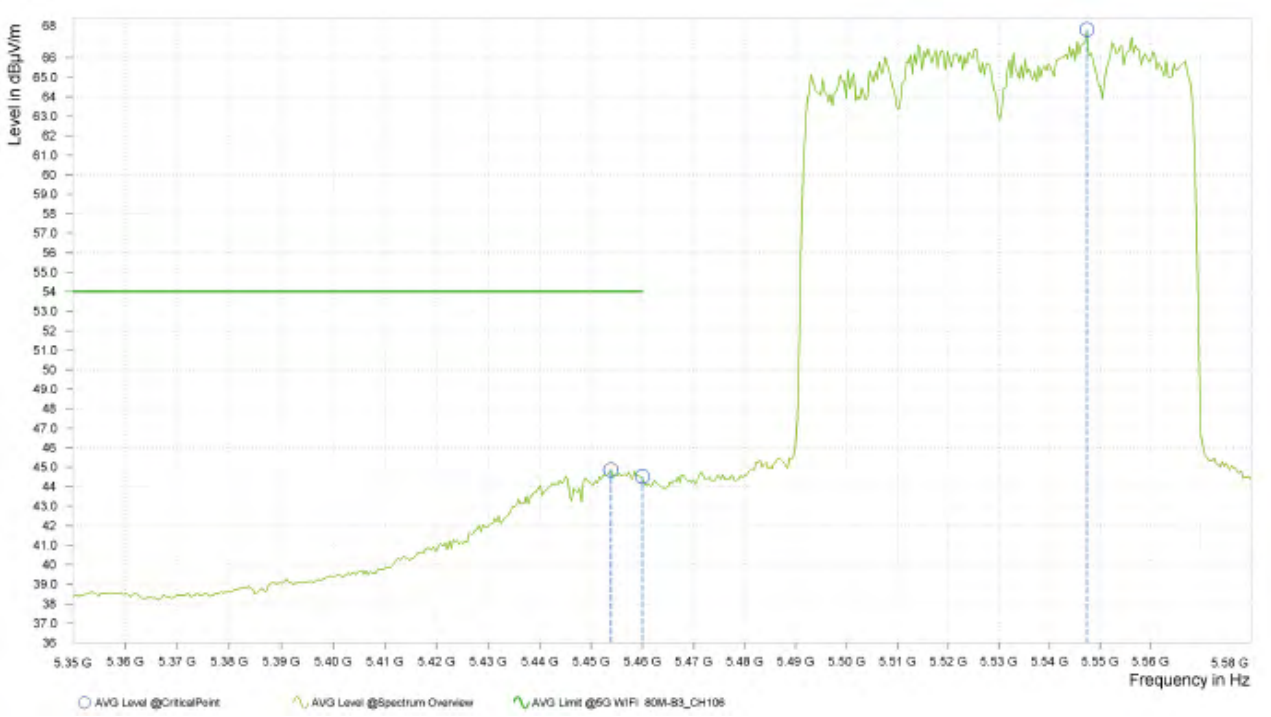
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
7	5,686.500	96.41			4.46	V	308.4	2.00
7	5,725.000	58.54	68.20	9.66	4.49	V	259.4	2.00
7	5,725.500	59.58	68.20	8.62	4.49	V	259.4	2.00

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5670MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ac (80MHz)

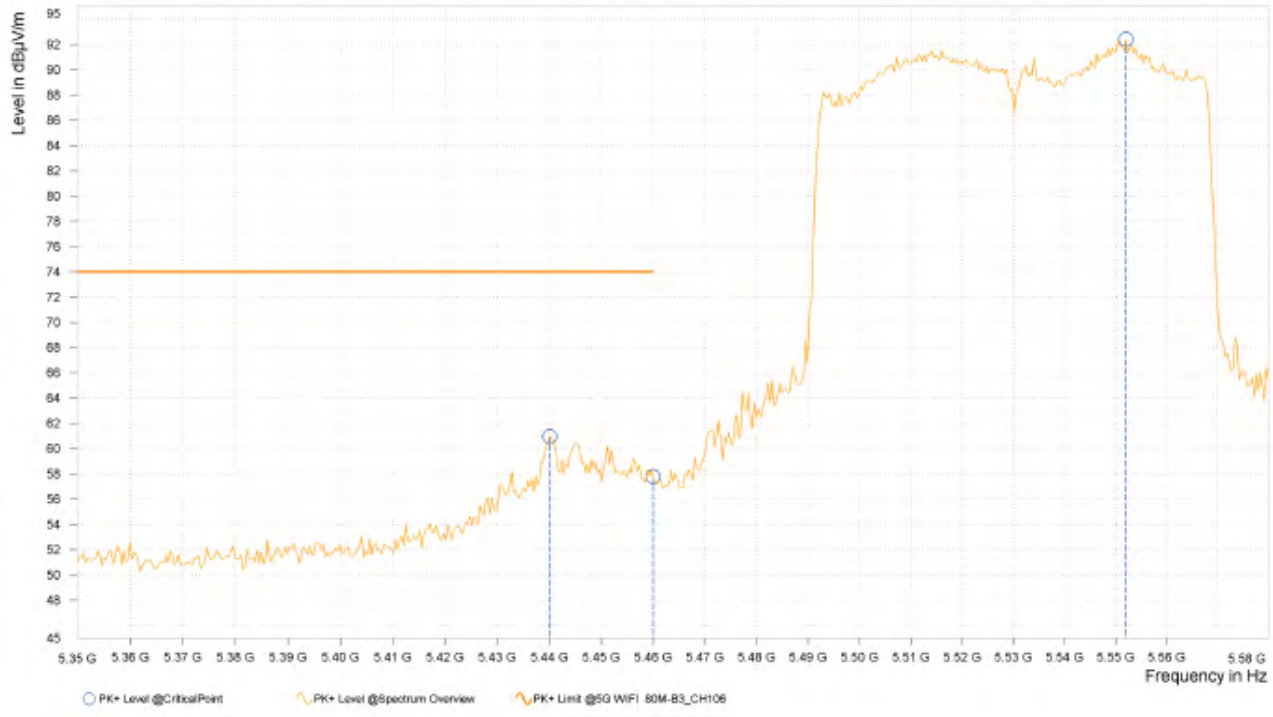
CHANNEL	TX Channel 106	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		



Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	5,453.883	44.86	54.00	9.14	3.75	H	117.8	2.00
2	5,460.000	44.52	54.00	9.48	3.76	H	117.8	2.00
2	5,547.417	67.45			3.98	H	264.8	2.00

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	5,446.983	63.95	74.00	10.05	3.74	H	121.4	2.00
2	5,460.000	61.57	74.00	12.43	3.76	H	121.4	2.00
2	5,547.800	97.17			3.98	H	268.5	2.00

Rg	Frequency [MHz]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	5,444.683	42.24	54.00	11.76	3.73	V	291.1	1.00
2	5,460.000	40.92	54.00	13.08	3.76	V	266.1	2.00
2	5,558.150	63.99			4.03	V	43.7	1.00

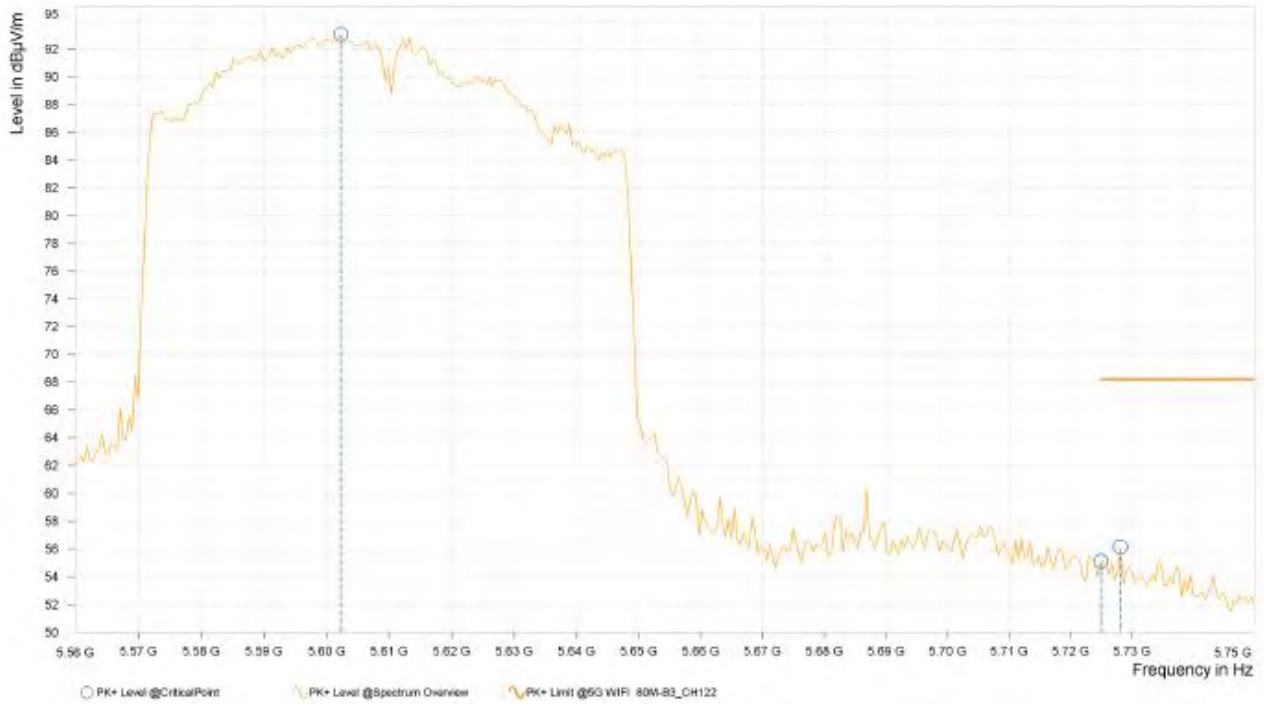


Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	5,440.083	60.96	74.00	13.04	3.72	V	355.6	2.00
2	5,460.000	57.79	74.00	16.21	3.76	V	316.3	1.00
2	5,552.017	92.43			4.00	V	43.7	1.00

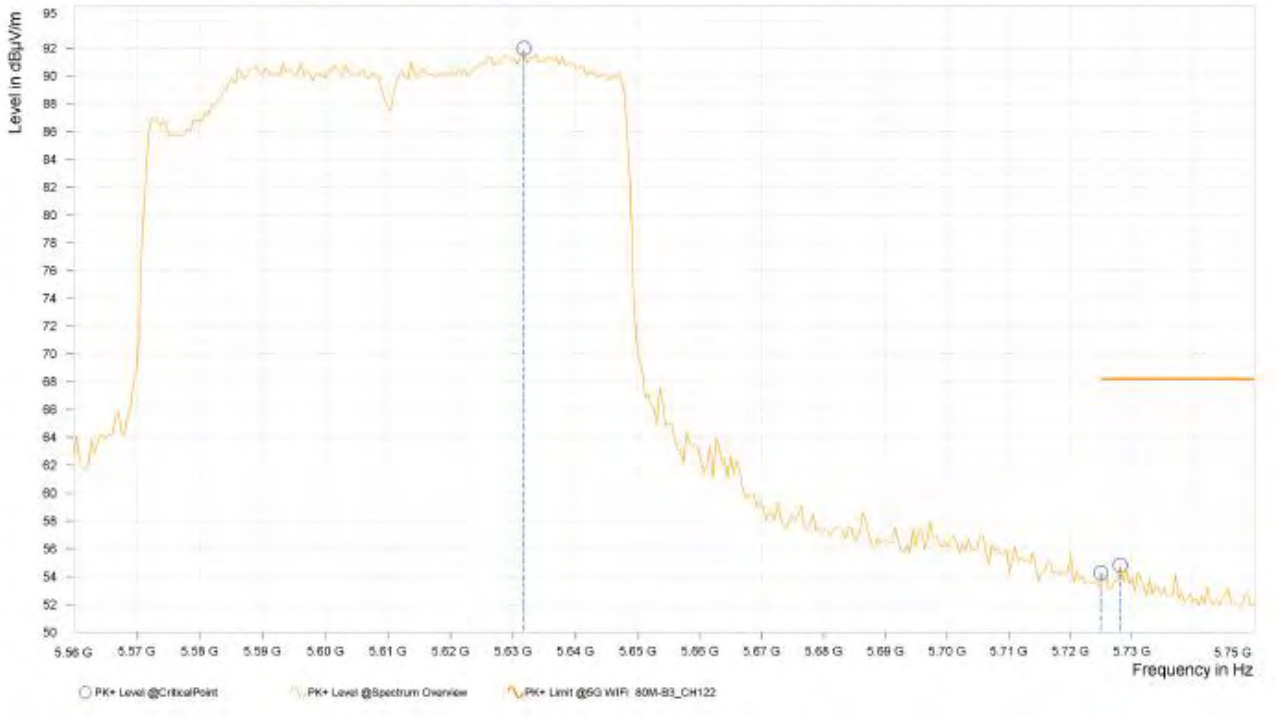
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5530MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	5,602.275	93.05			4.23	H	266.1	2.00
3	5,725.000	55.13	68.20	13.07	4.49	H	266.1	2.00
3	5,728.150	56.15	68.20	12.05	4.49	H	266.1	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	5,631.725	91.98			4.34	V	0.9	2.00
3	5,725.000	54.25	68.20	13.95	4.49	V	45	1.00
3	5,728.150	54.84	68.20	13.36	4.49	V	45	1.00

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5610MHz: Fundamental frequency.
3. #: Out of restricted band.

CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,715.833	94.26			4.49	H	5.1	1.00
4	5,850.000	53.00	68.20	15.20	5.38	H	359.1	1.00
4	5,880.067	54.05	68.20	14.15	5.44	H	2.7	2.00

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,703.700	94.20			4.48	V	4.5	1.00
4	5,850.000	53.73	68.20	14.47	5.38	V	353.8	1.00
4	5,876.600	55.01	68.20	13.19	5.43	V	1.8	2.00

REMARKS:

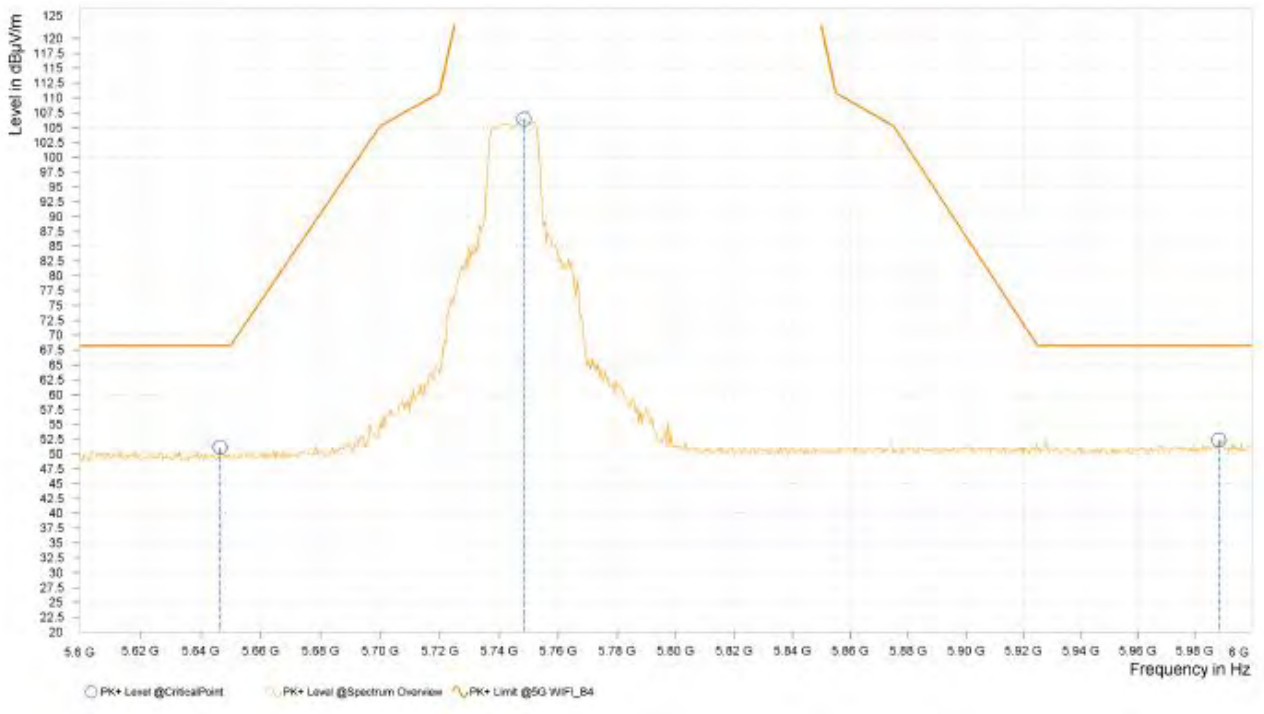
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5690MHz: Fundamental frequency.
3. #: Out of restricted band.

Band 4:

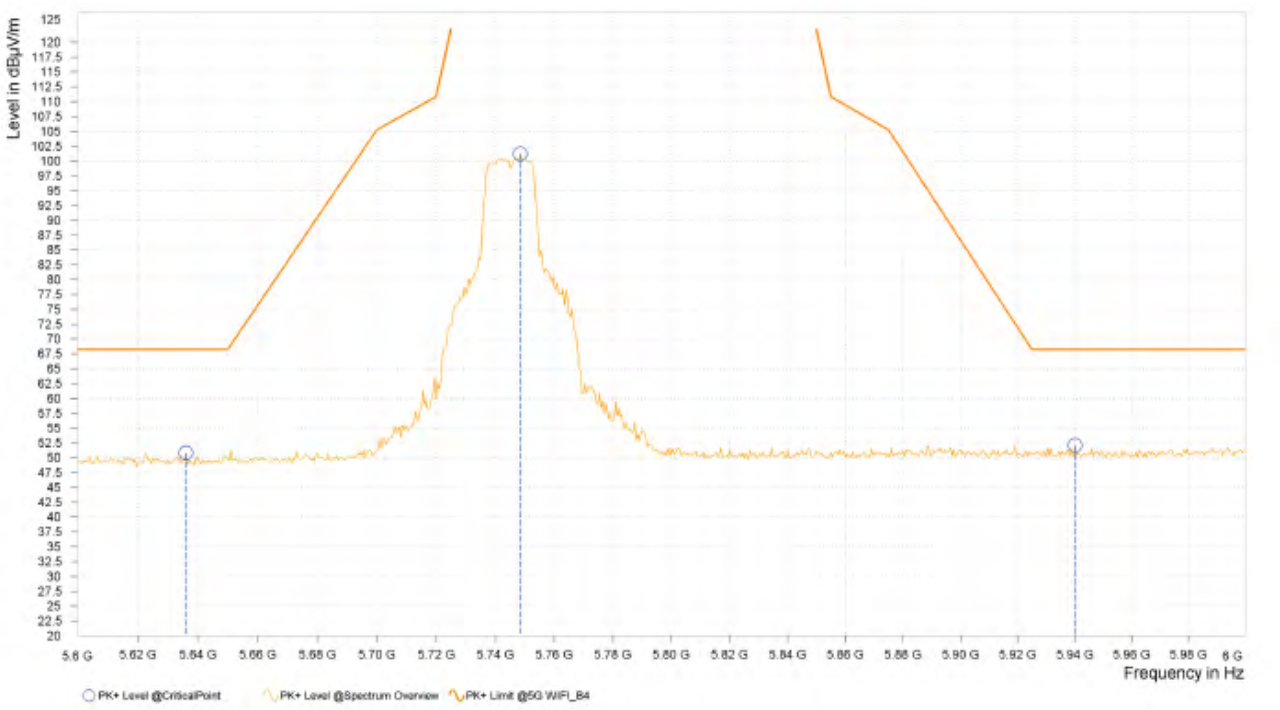
802.11a

CHANNEL	TX Channel 149	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,646.500	51.10	68.20	17.10	11.43	H	54.2	1.00
12	5,748.500	106.47			11.74	H	54.2	1.00
12	5,988.500	52.38	68.20	15.82	12.41	H	359	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,636.000	50.81	68.20	17.39	11.39	V	296.2	2.00
12	5,748.500	101.20			11.74	V	53	1.00
12	5,940.000	52.09	68.20	16.11	12.19	V	4.2	1.00

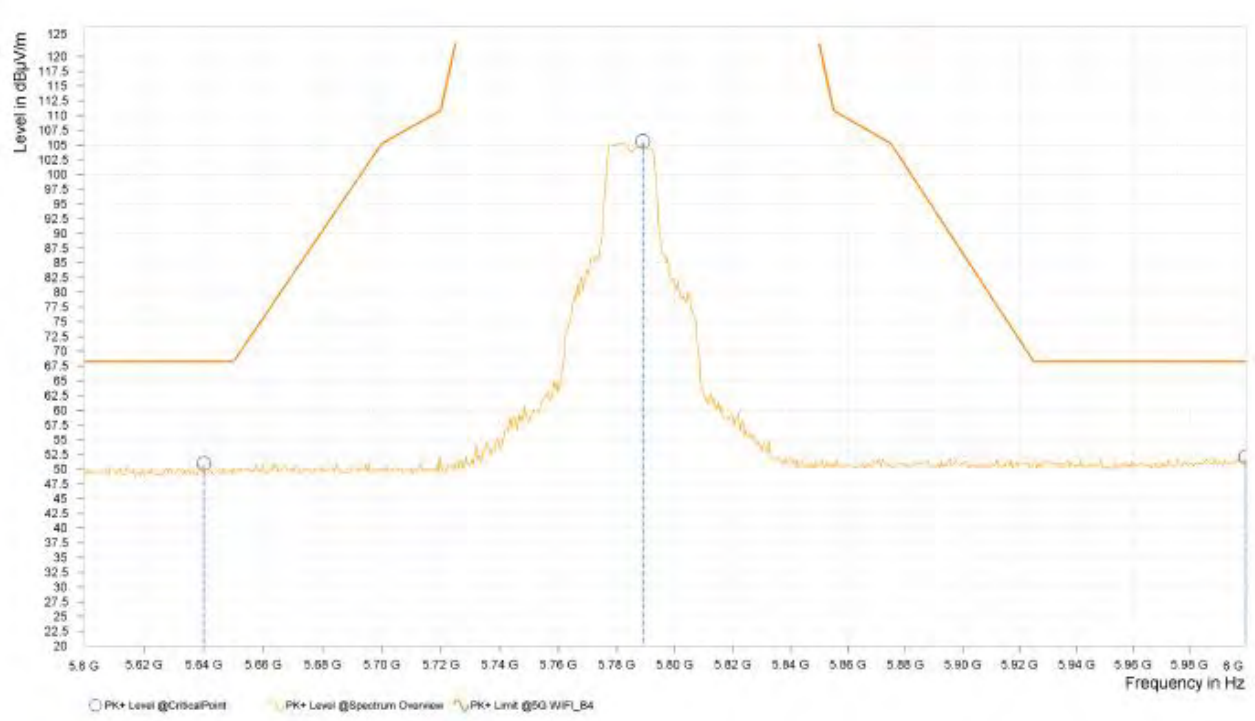


REMARKS:

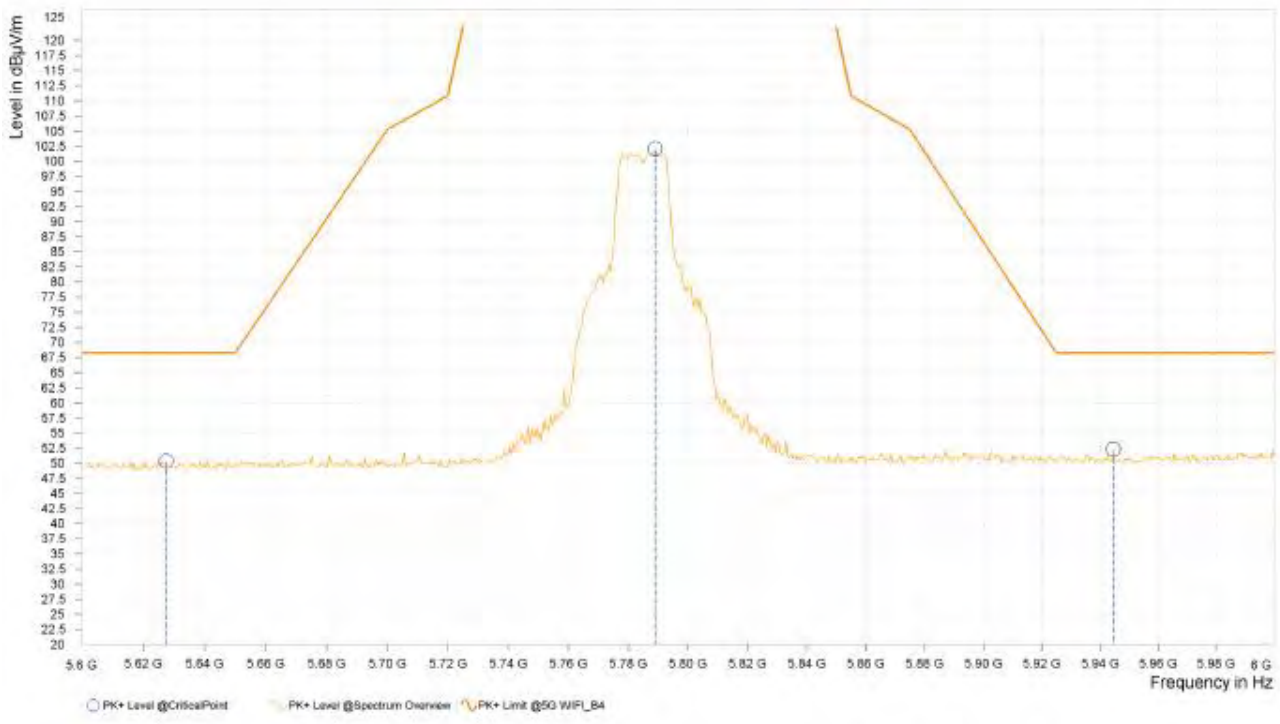
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5745MHz: Fundamental frequency.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,640.000	50.91	68.20	17.29	11.41	H	358.8	1.00
12	5,789.000	105.64			11.88	H	55.4	1.00
12	6,000.000	52.13	68.20	16.07	12.48	H	231.1	1.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,627.500	50.35	68.20	17.85	11.35	V	231.2	1.00
12	5,789.000	102.06			11.88	V	54.3	1.00
12	5,944.500	52.34	68.20	15.86	12.20	V	172.6	1.00

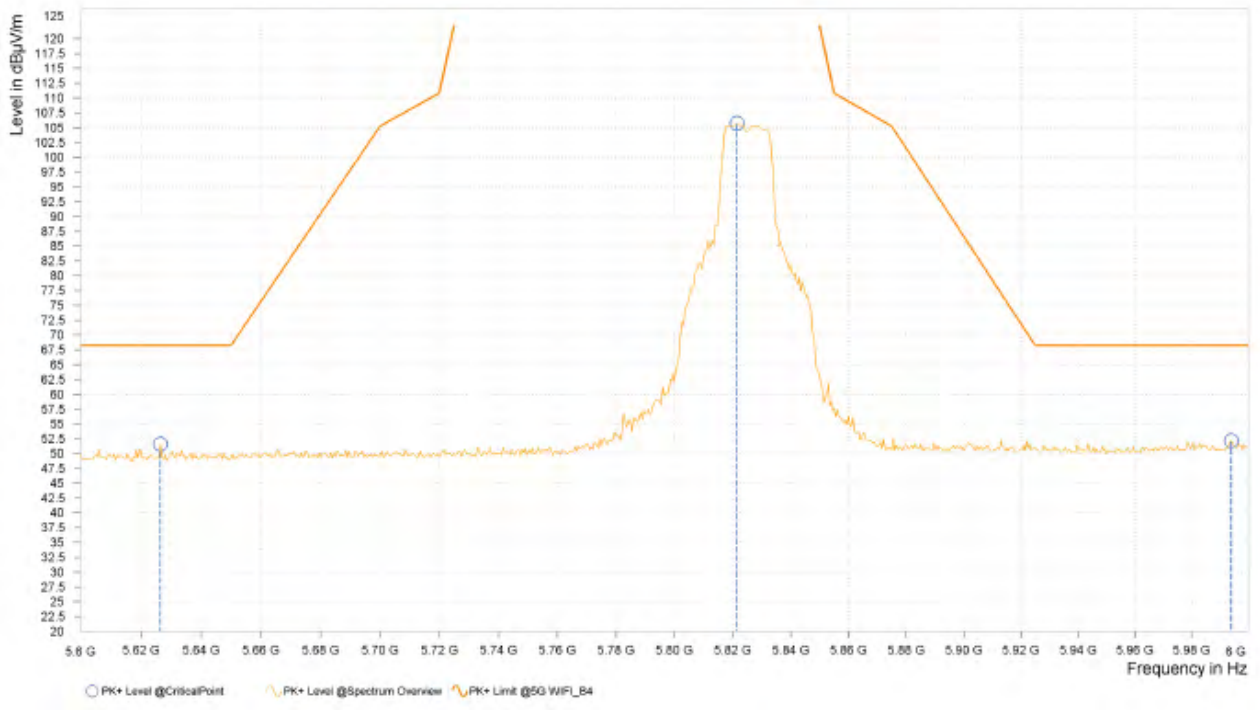


REMARKS:

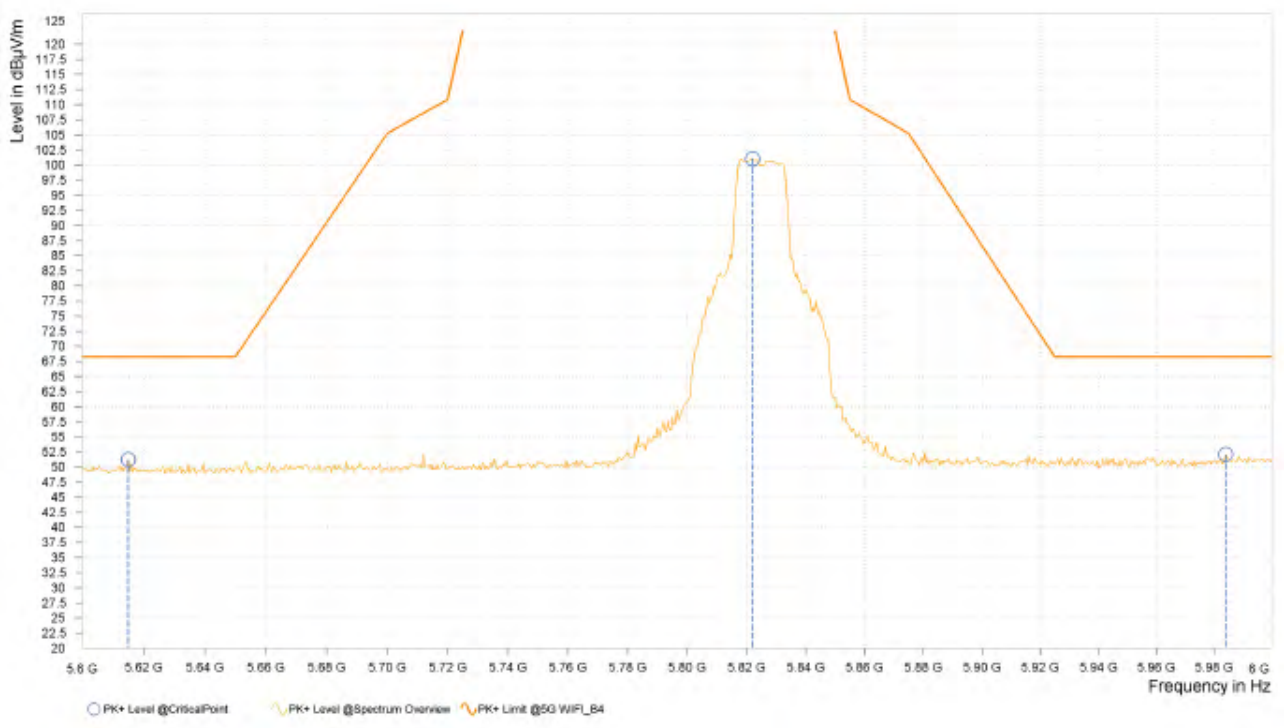
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5785MHz: Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,626.500	51.59	68.20	16.61	11.35	H	359	2.00
12	5,821.500	105.76			11.95	H	173.8	1.00
12	5,994.000	52.17	68.20	16.03	12.45	H	304.5	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,615.000	51.24	68.20	16.96	11.31	V	115.2	1.00
12	5,822.000	101.04			11.95	V	55.4	1.00
12	5,984.000	52.07	68.20	16.13	12.39	V	304.6	2.00



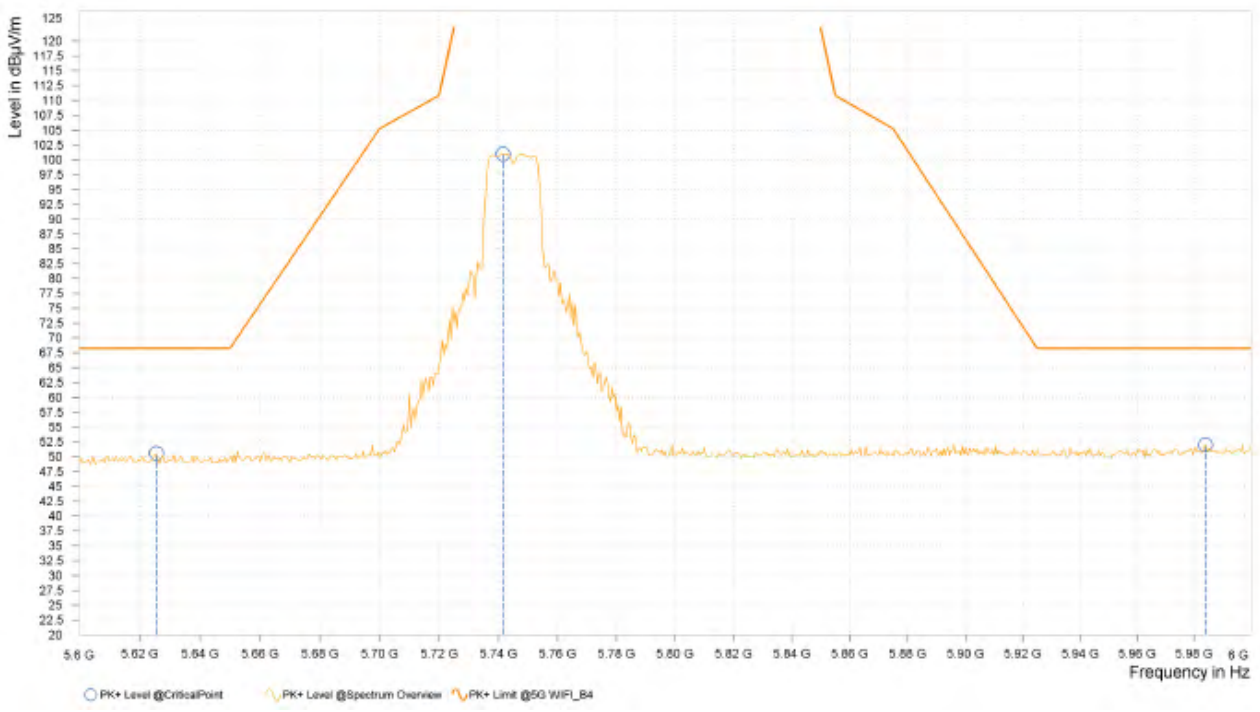
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5825MHz: Fundamental frequency.

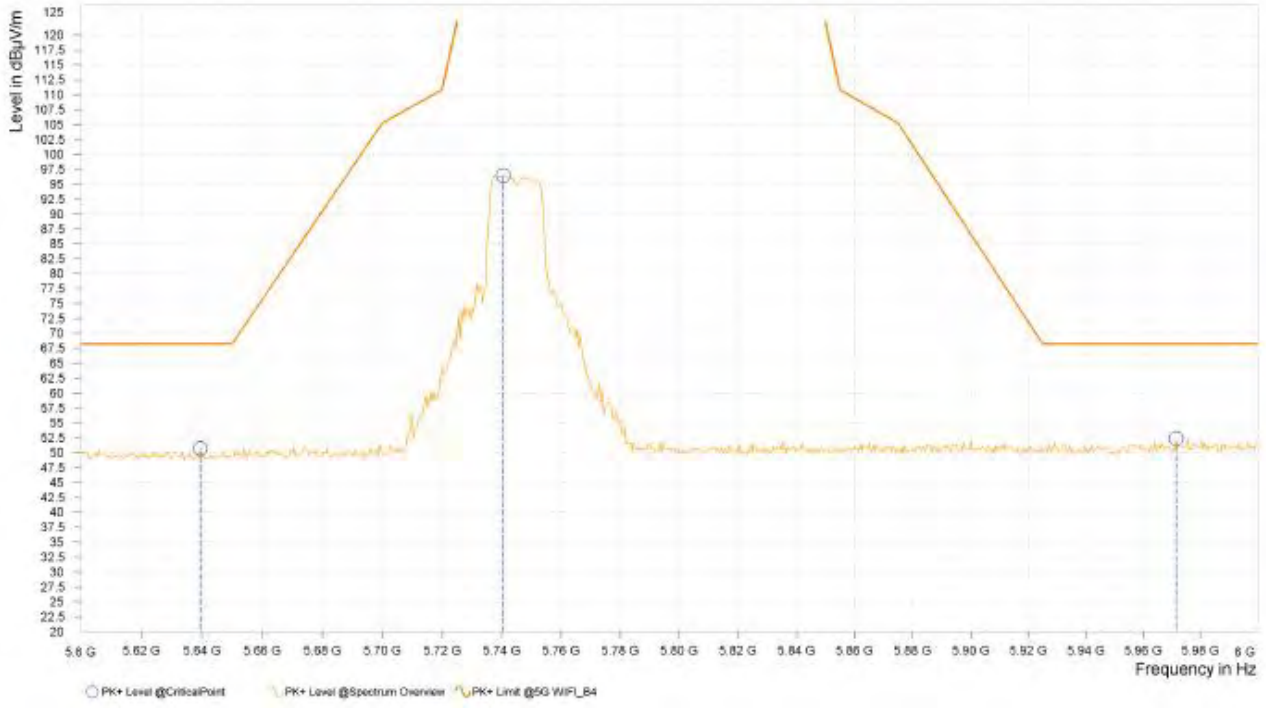
802.11n (20MHz)

CHANNEL	TX Channel 149	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,625.500	50.56	68.20	17.64	11.35	H	60.2	1.00
12	5,741.500	100.97			11.72	H	60.2	1.00
12	5,984.000	51.97	68.20	16.23	12.39	H	300.9	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
12	5,639.500	50.71	68.20	17.49	11.40	V	123.6	1.00
12	5,740.500	96.47			11.72	V	59	1.00
12	5,971.500	52.39	68.20	15.81	12.31	V	1	2.00

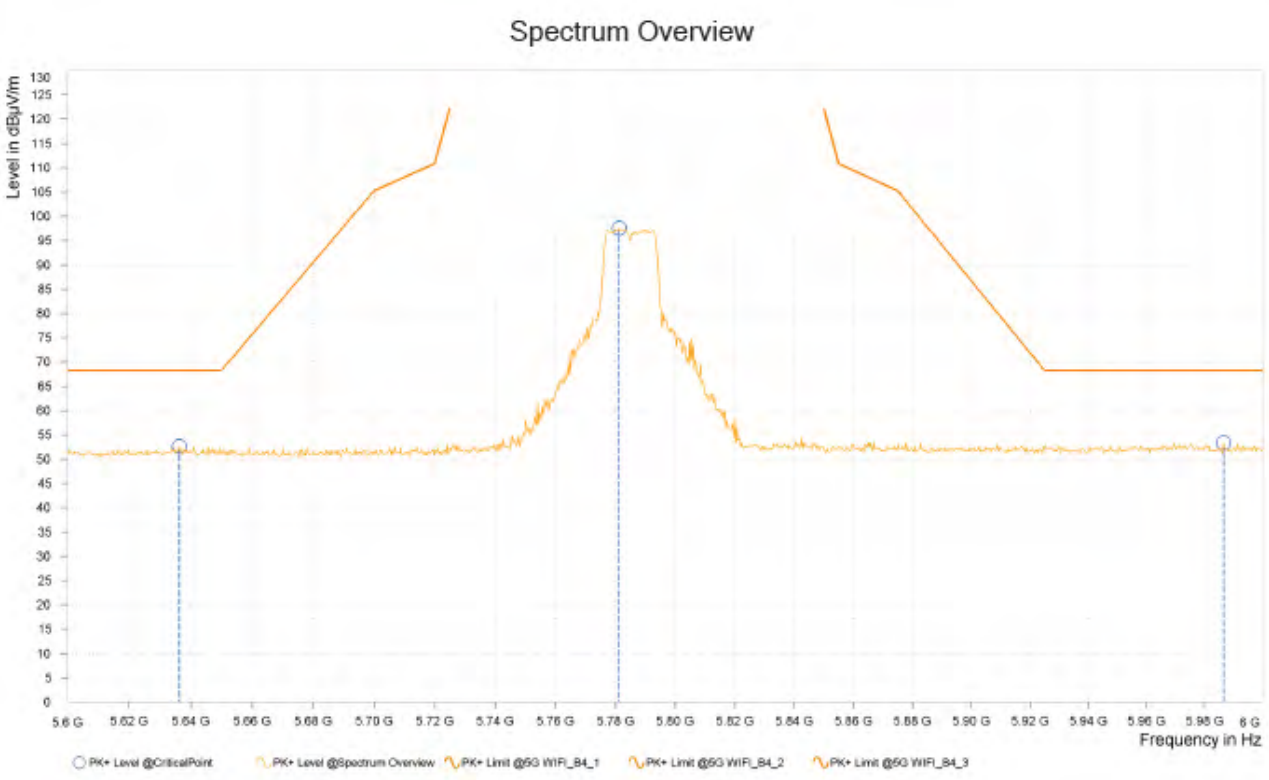


REMARKS:

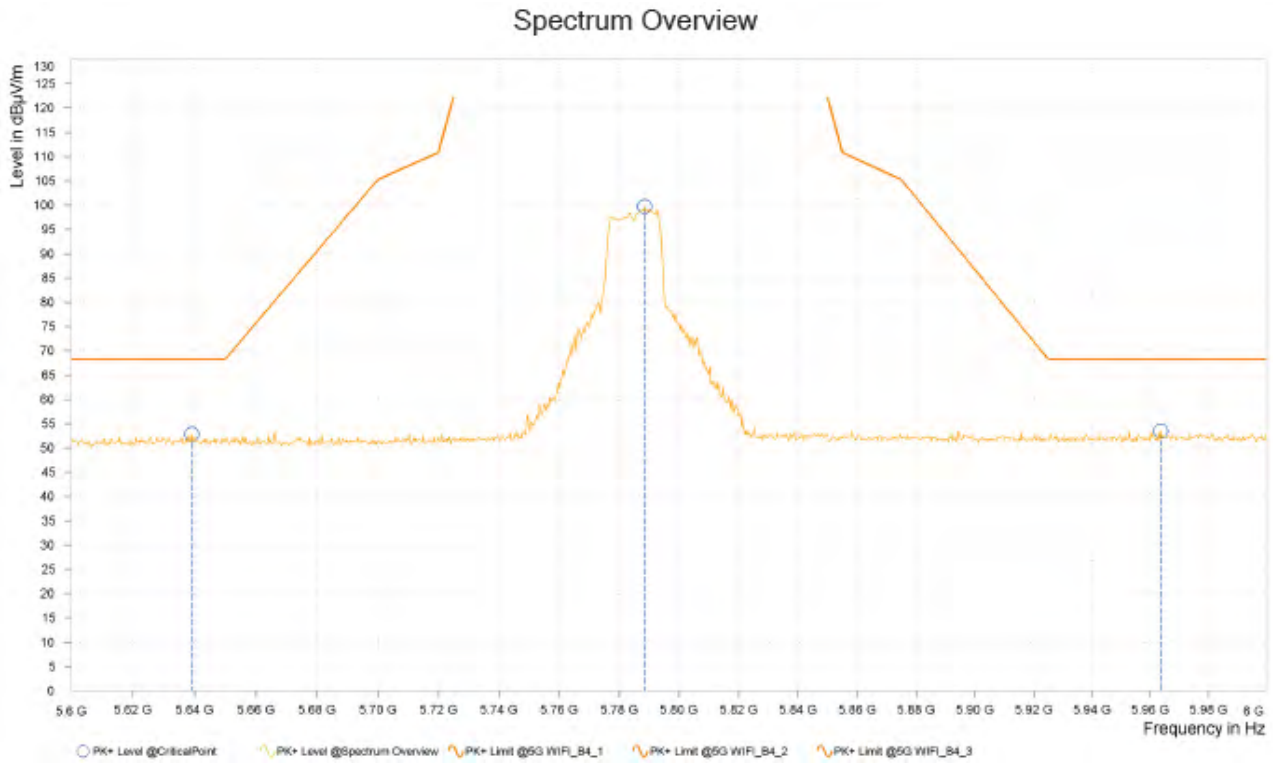
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5745MHz: Fundamental frequency.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,636.250	52.58	68.20	15.62	4.35	H	359	2.00
12	5,781.250	97.54			4.90	H	88	2.00
13	5,986.500	53.32	68.20	14.88	5.73	H	182.5	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,639.063	52.85	68.20	15.35	4.35	V	5.1	1.00
13	5,963.625	53.47	68.20	14.73	5.54	V	359.1	1.00
12	5,788.438	99.75			4.97	V	89.2	1.00

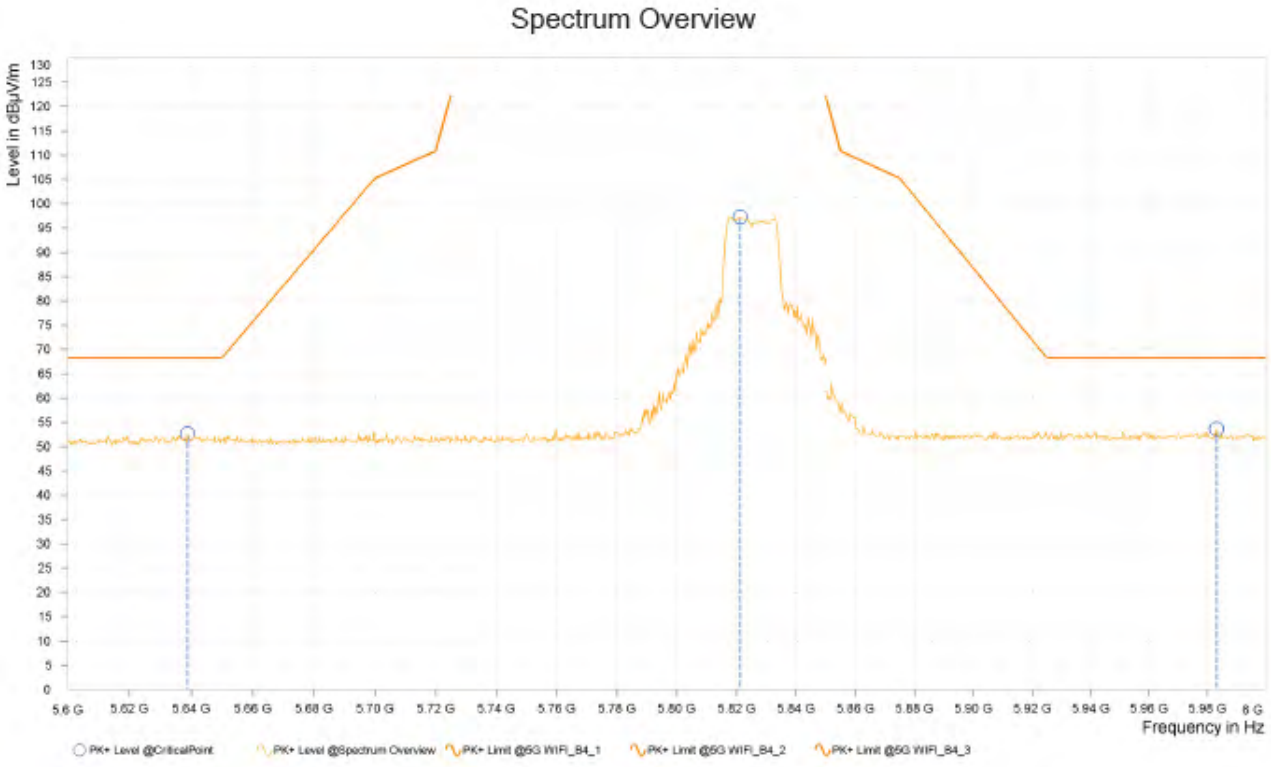


REMARKS:

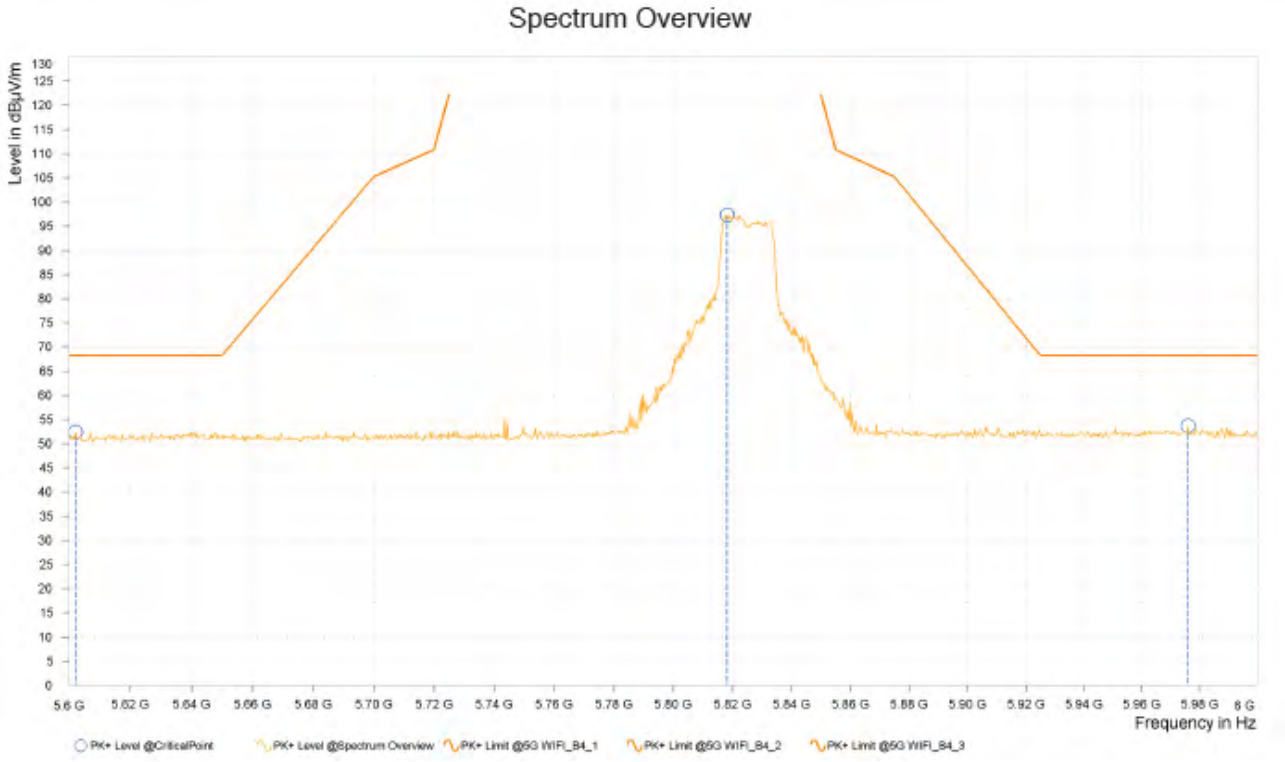
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5785MHz: Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,638.750	52.59	68.20	15.61	4.35	H	5.1	1.00
12	5,821.250	97.29			5.22	H	84.5	2.00
13	5,983.125	53.59	68.20	14.61	5.70	H	33	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,602.188	52.39	68.20	15.81	4.23	V	358.4	1.00
12	5,818.125	97.35			5.20	V	0.9	2.00
13	5,976.000	53.70	68.20	14.50	5.64	V	0.9	2.00



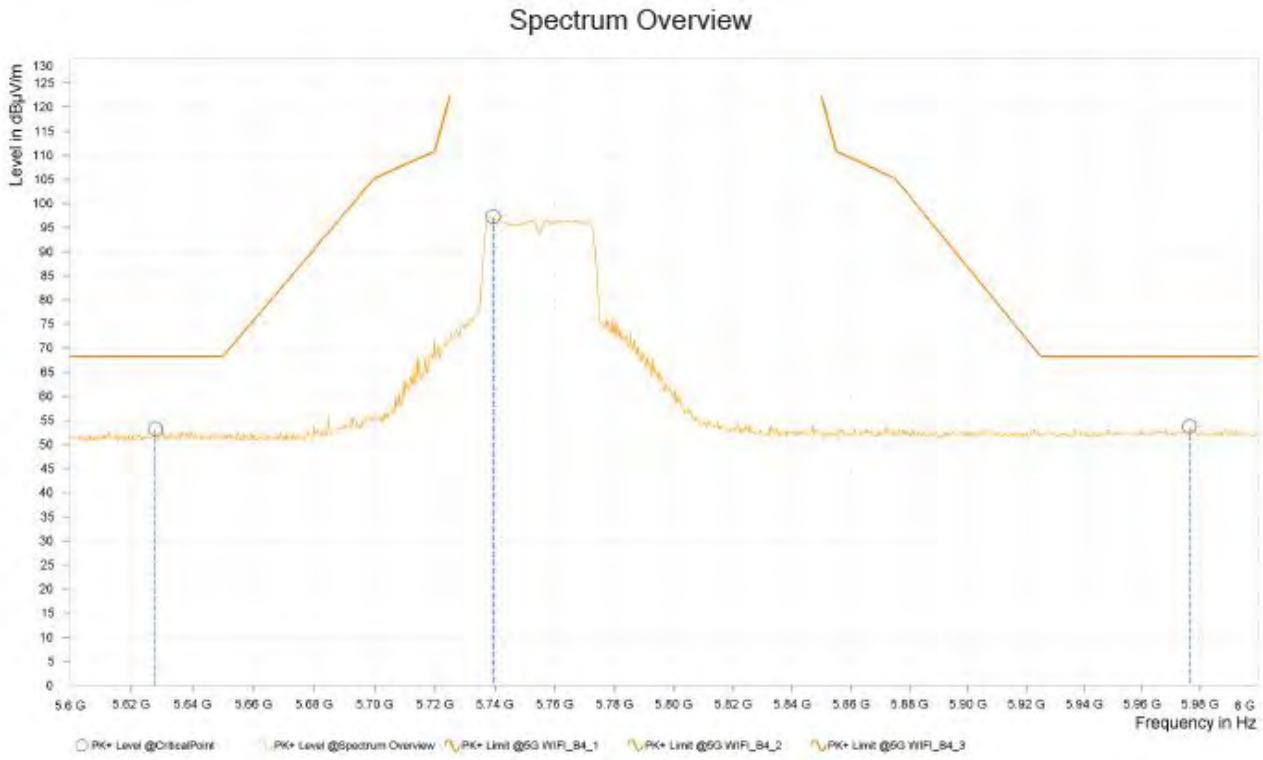
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5825MHz: Fundamental frequency.

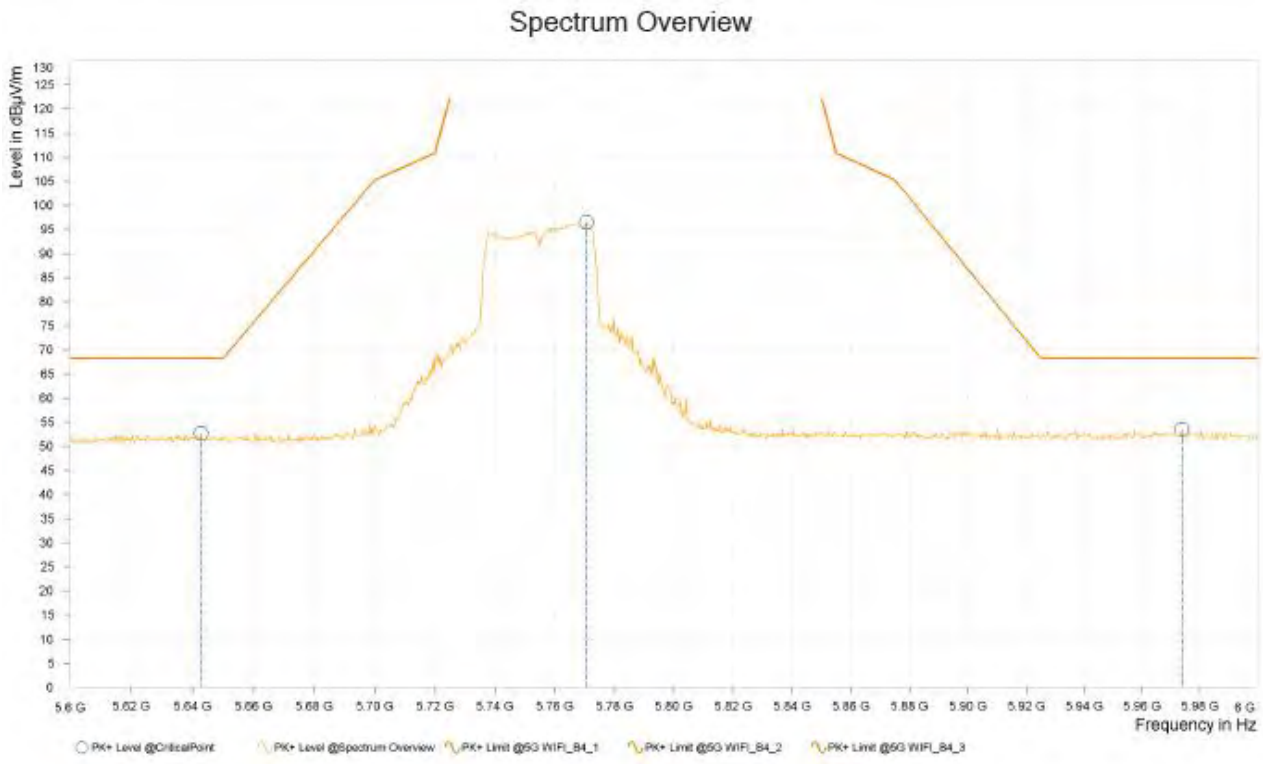
802.11n (40MHz)

CHANNEL	TX Channel 151	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,627.813	53.18	68.20	15.02	4.33	H	91.1	2.00
10	5,739.375	97.25			4.55	H	49.2	1.00
11	5,976.375	53.72	68.20	14.48	5.64	H	194.3	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,642.813	52.69	68.20	15.51	4.36	V	92.3	2.00
10	5,770.625	96.49			4.81	V	358.3	1.00
11	5,973.750	53.48	68.20	14.72	5.62	V	359.1	1.00

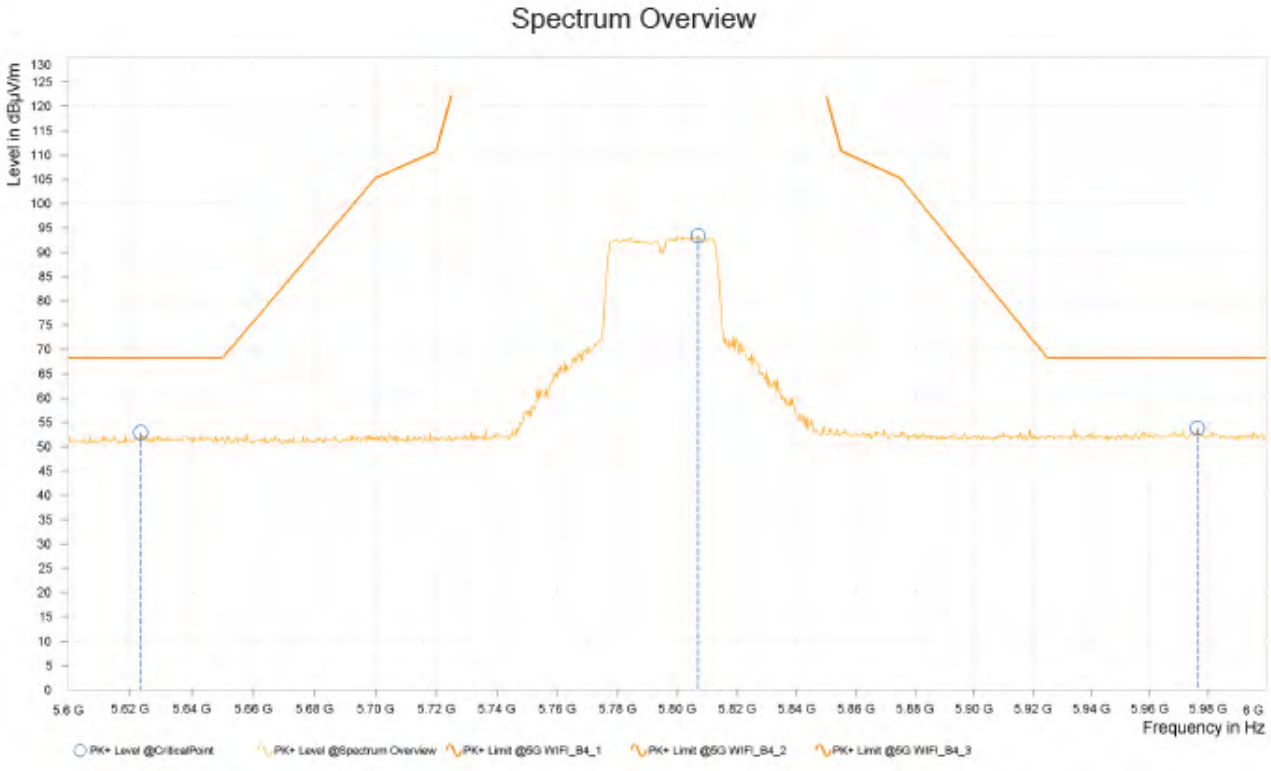


REMARKS:

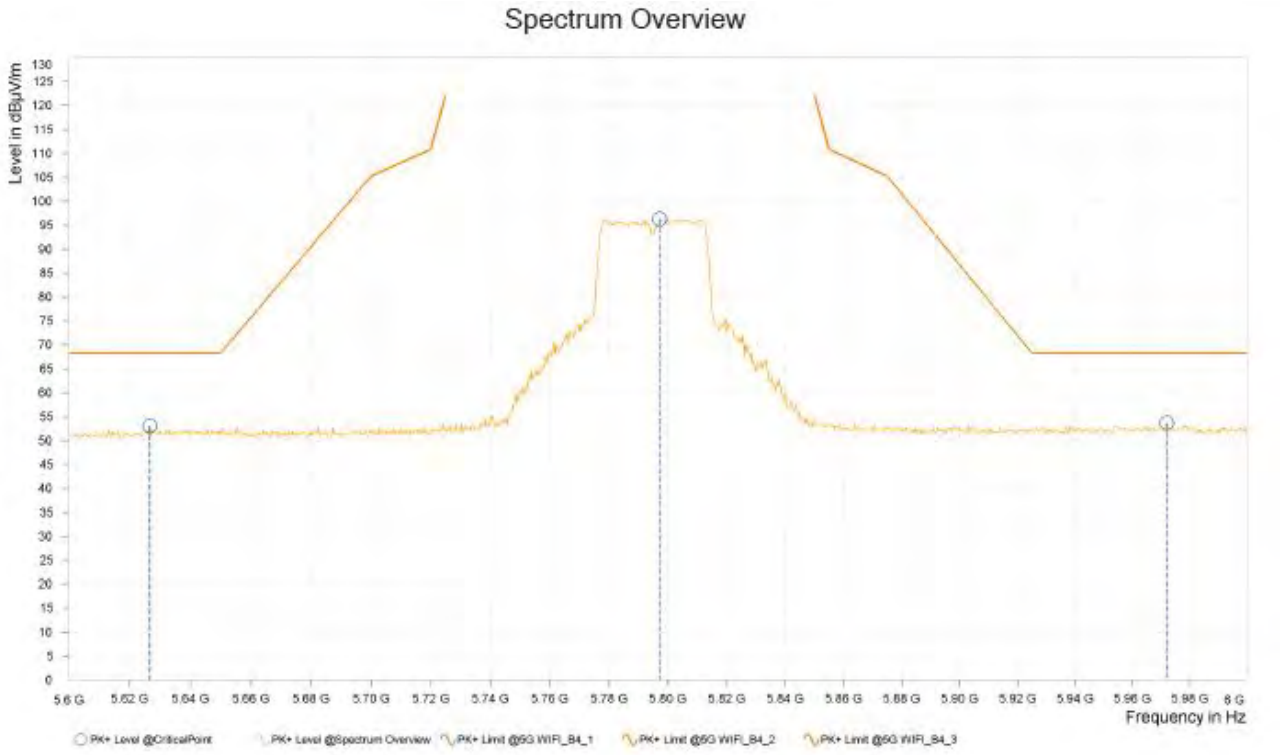
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5755MHz: Fundamental frequency.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,623.438	52.87	68.20	15.33	4.32	H	343.6	1.00
10	5,806.875	93.34			5.12	H	1	2.00
11	5,976.375	53.82	68.20	14.38	5.64	H	43.3	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,626.563	53.07	68.20	15.13	4.33	V	1	1.00
10	5,797.188	96.28			5.05	V	359.1	1.00
11	5,971.875	53.69	68.20	14.51	5.61	V	242.2	1.00



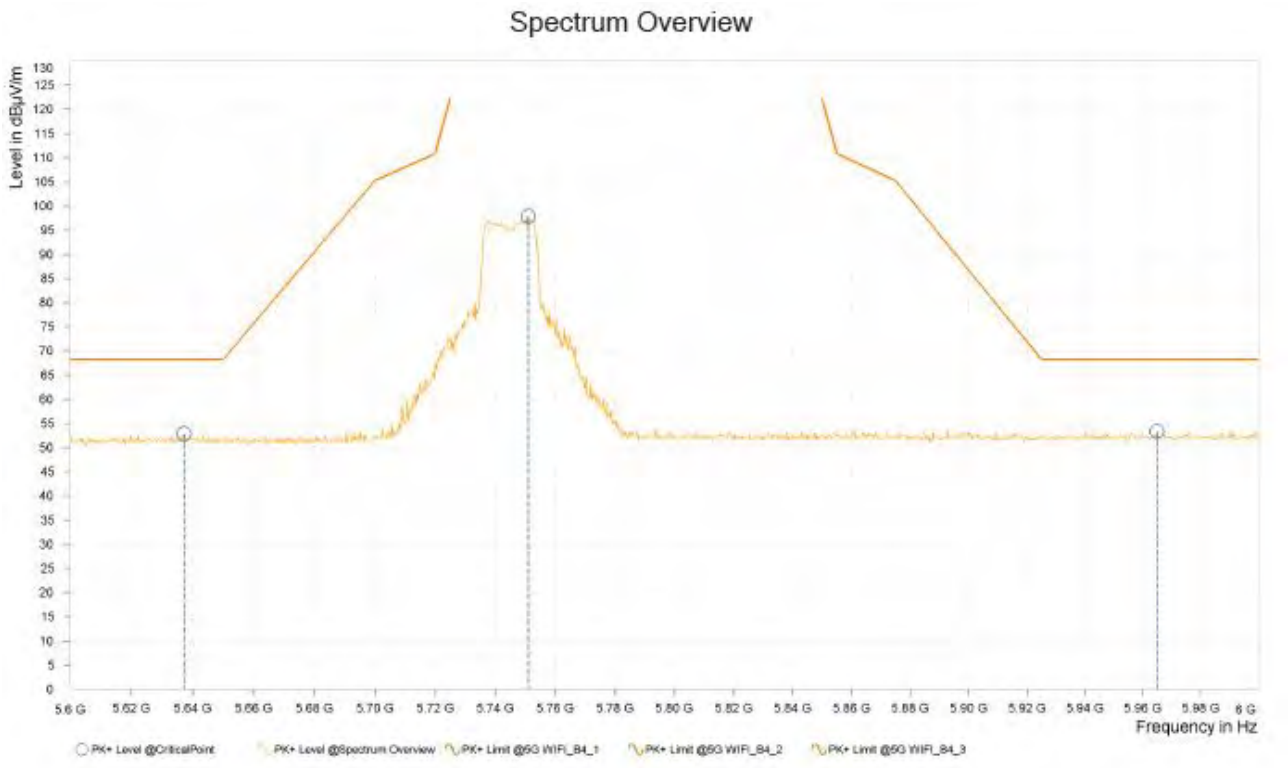
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5795MHz: Fundamental frequency.

802.11ac (20MHz)

CHANNEL	TX Channel 149	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,637.188	52.81	68.20	15.39	4.35	H	4.5	1.00
12	5,750.938	97.87			4.63	H	1	1.00
13	5,964.750	53.30	68.20	14.90	5.55	H	10	2.00



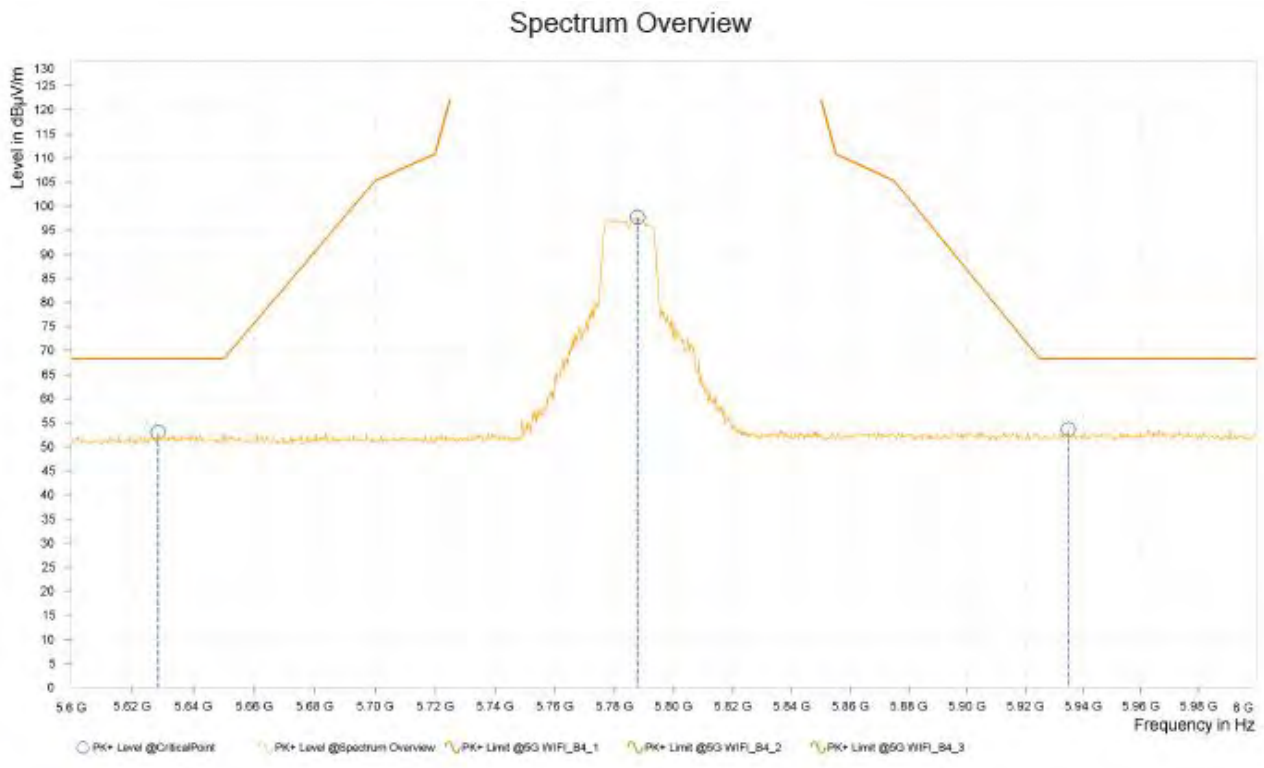
Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,632.188	53.50	68.20	14.70	4.34	V	0.9	2.00
12	5,738.750	97.19			4.54	V	1	1.00
13	5,977.500	53.97	68.20	14.23	5.65	V	359	2.00

REMARKS:

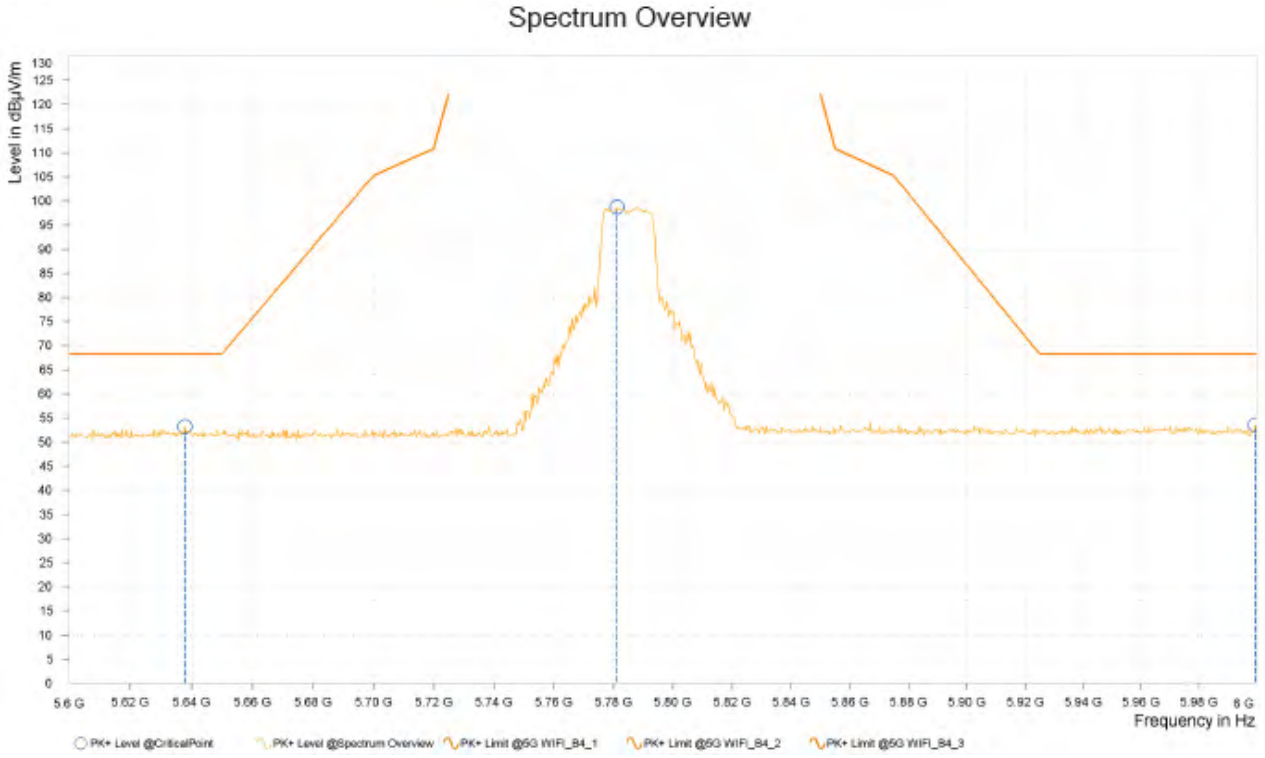
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5745MHz: Fundamental frequency.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,628.438	53.00	68.20	15.20	4.33	H	359	2.00
12	5,787.813	97.70			4.96	H	1	1.00
13	5,934.750	53.59	68.20	14.61	5.49	H	16.3	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,637.813	53.17	68.20	15.03	4.35	V	359	2.00
12	5,781.250	98.69			4.90	V	96.4	1.00
13	5,999.625	53.54	68.20	14.66	5.84	V	169.4	2.00

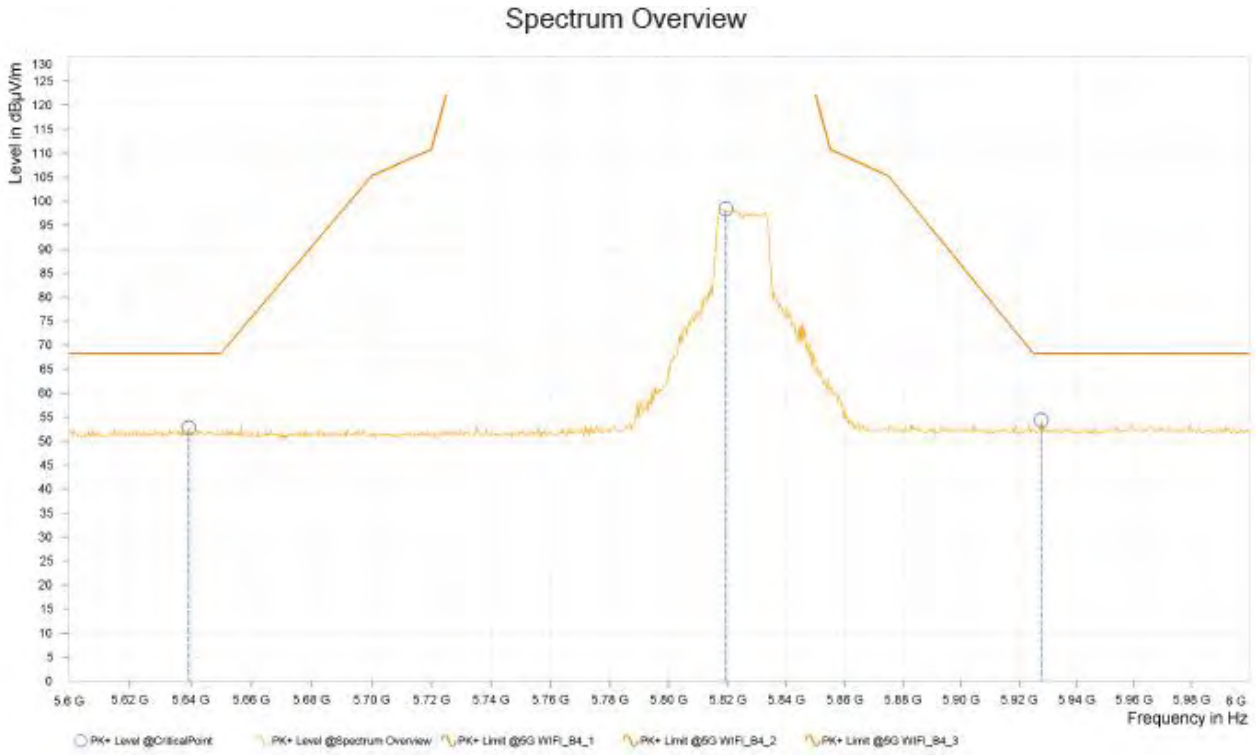


REMARKS:

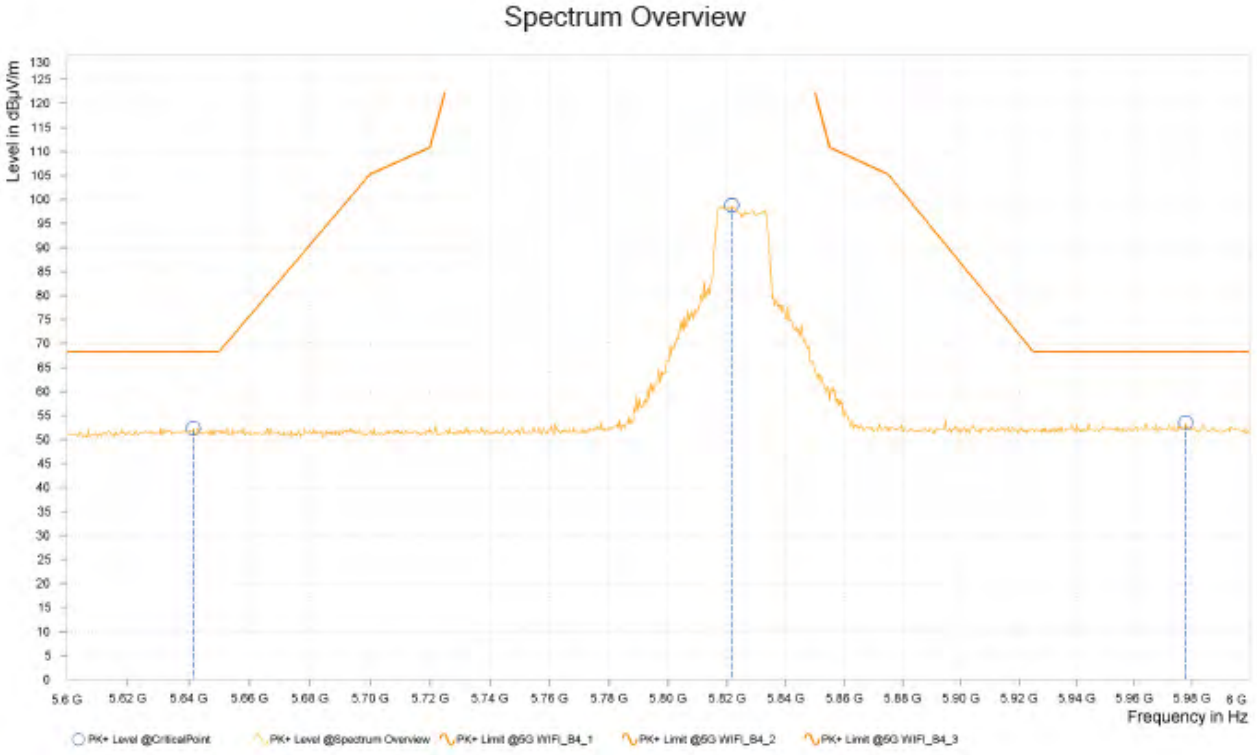
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5785MHz: Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,639.375	52.76	68.20	15.44	4.35	H	6.5	1.00
12	5,819.375	98.37			5.21	H	1	1.00
13	5,927.625	54.31	68.20	13.89	5.49	H	218.2	1.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
11	5,641.563	52.31	68.20	15.89	4.36	V	0.9	2.00
12	5,821.563	98.79			5.22	V	1	1.00
13	5,977.875	53.45	68.20	14.75	5.66	V	164.6	2.00



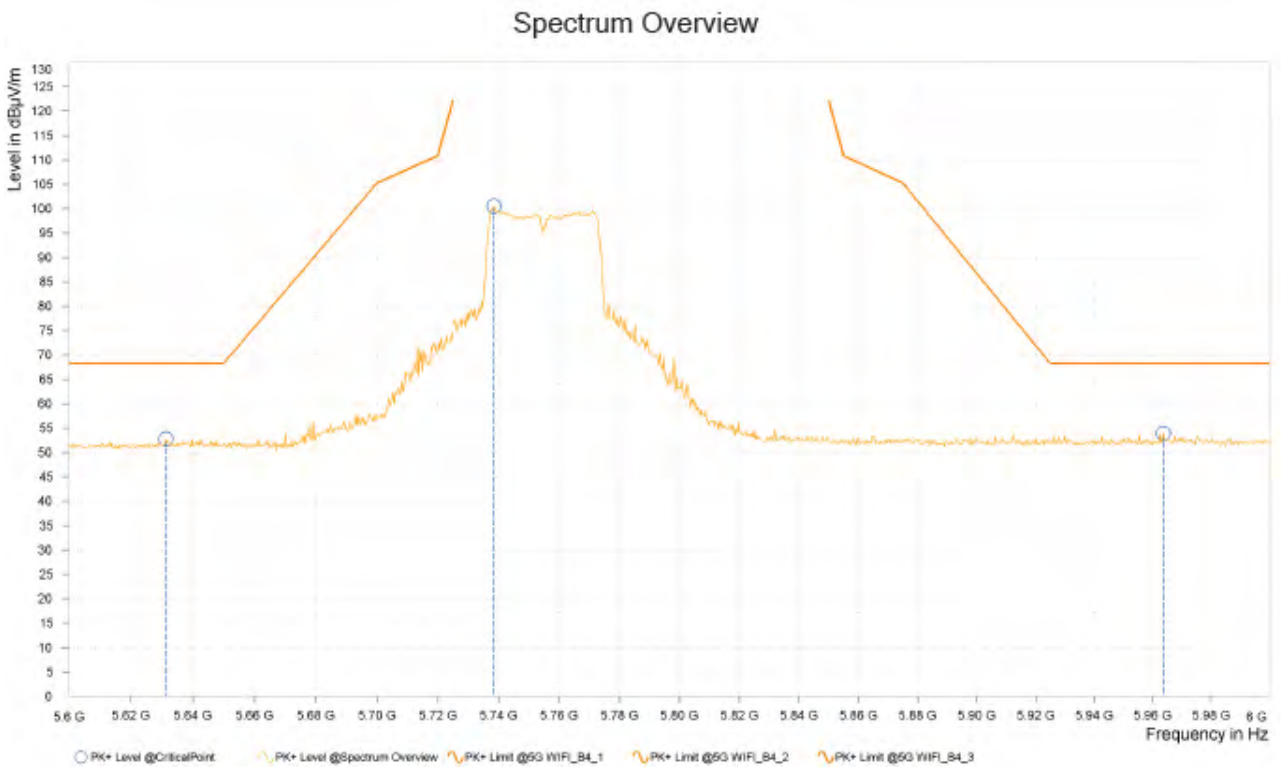
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5825MHz: Fundamental frequency.

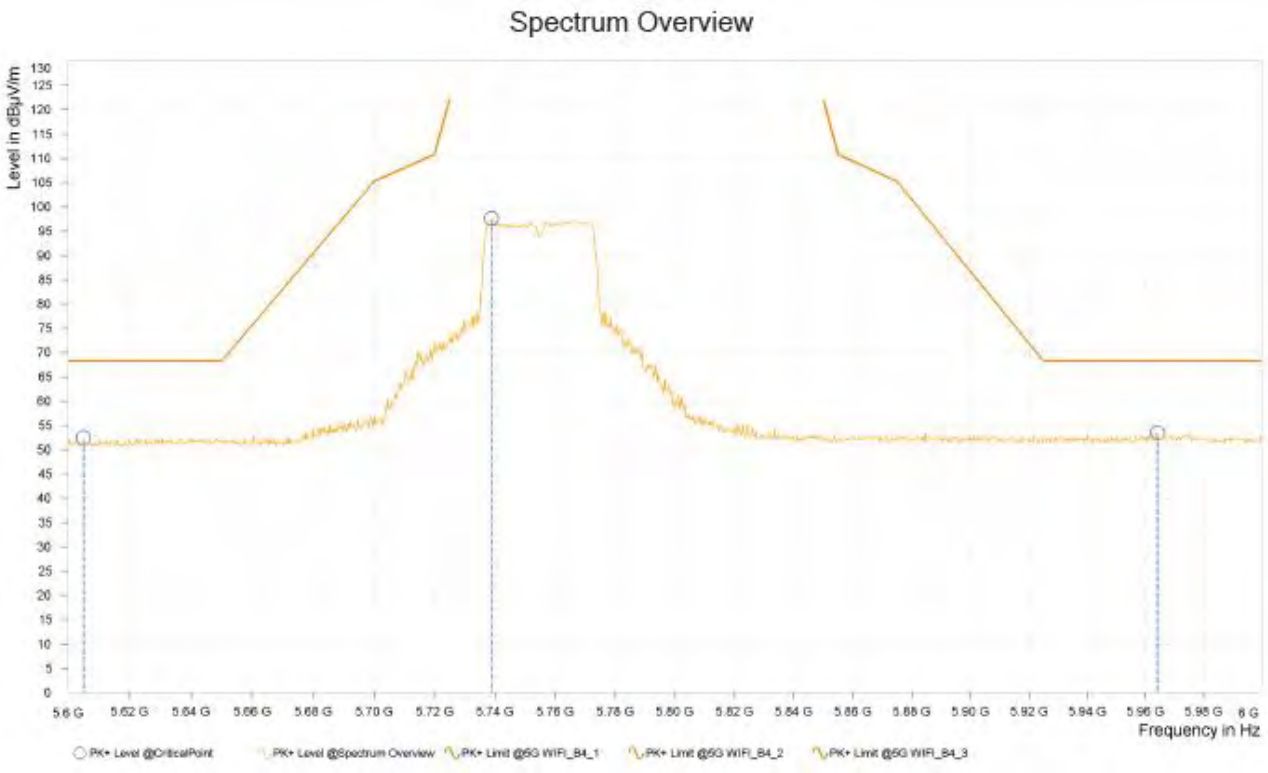
802.11ac (40MHz)

CHANNEL	TX Channel 151	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,631.250	52.74	68.20	15.46	4.34	H	0.9	2.00
10	5,738.440	100.51			4.54	H	218.2	2.00
11	5,963.625	53.91	68.20	14.29	5.54	H	0.9	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,605.000	52.47	68.20	15.73	4.24	V	0.9	2.00
10	5,738.750	97.62			4.54	V	1.8	2.00
11	5,964.000	53.51	68.20	14.69	5.54	V	359.1	1.00

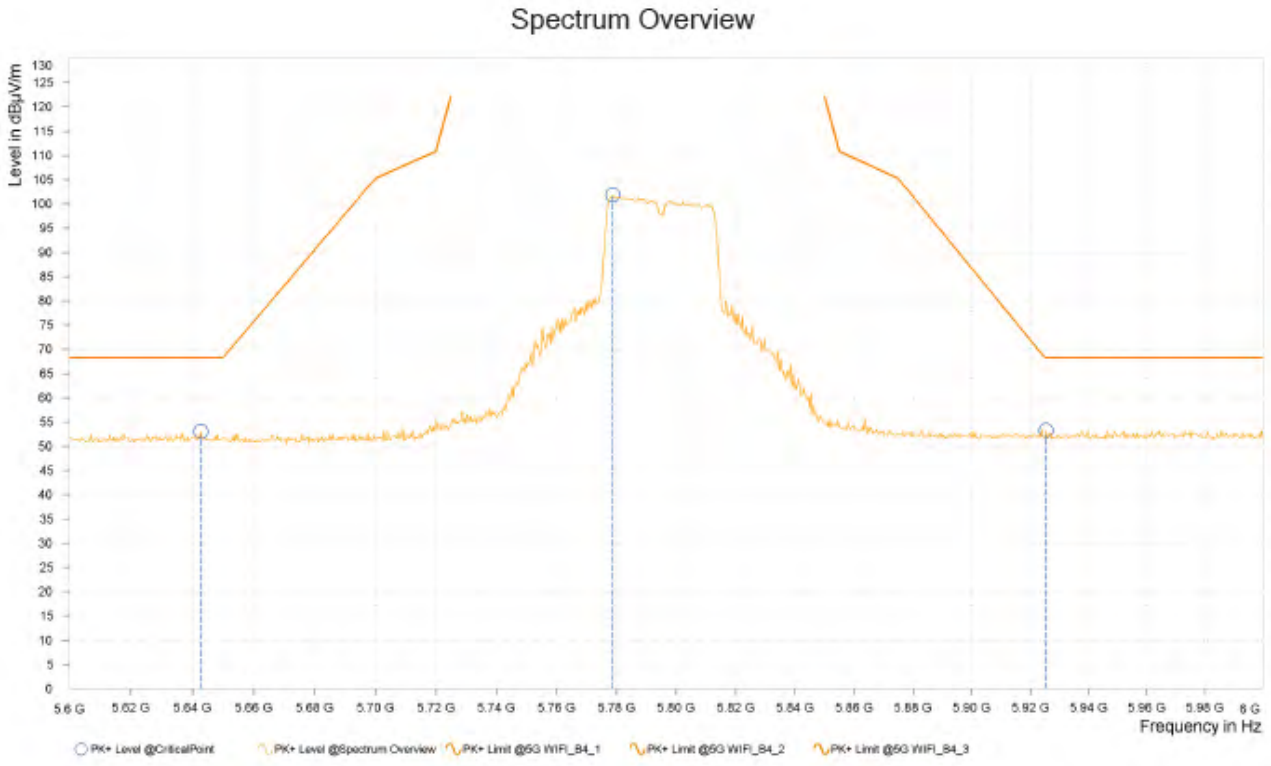


REMARKS:

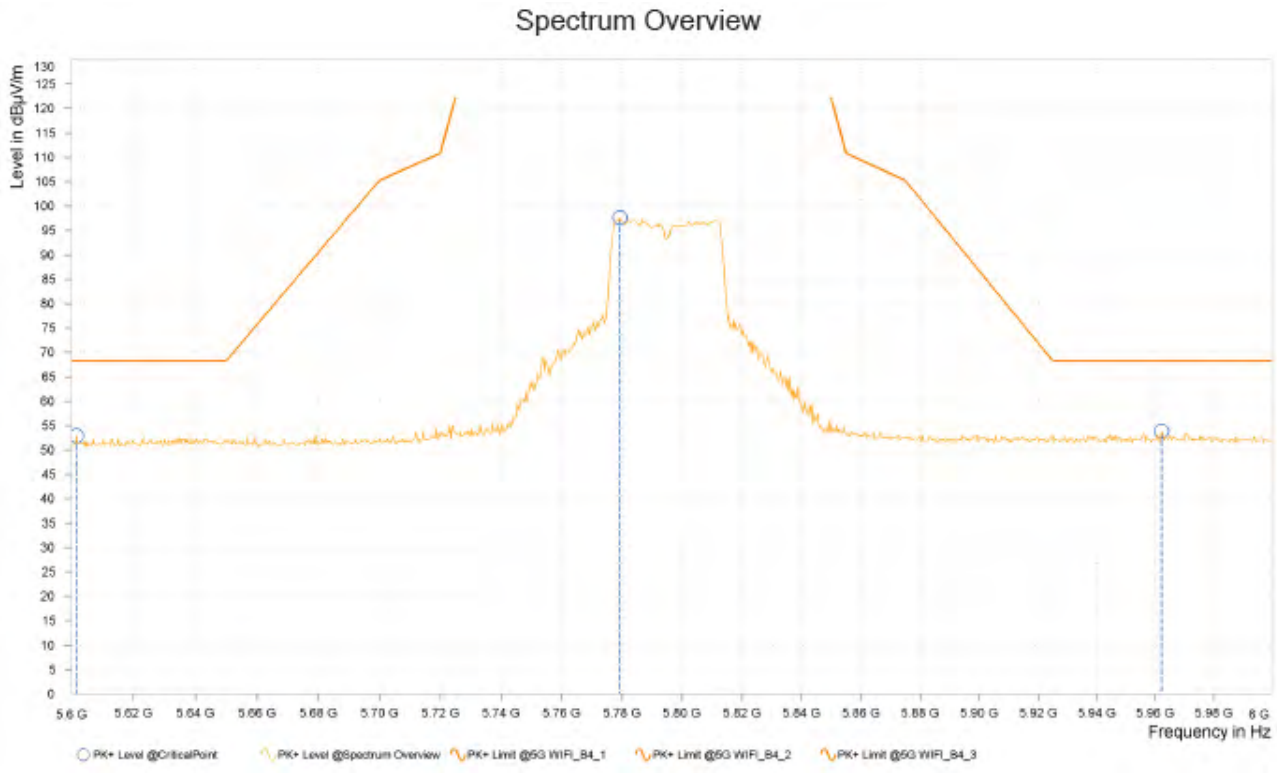
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5755MHz: Fundamental frequency.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,642.813	53.04	68.20	15.16	4.36	H	14.1	2.00
10	5,778.750	101.84			4.88	H	218.2	2.00
11	5,925.375	53.29	68.20	14.91	5.49	H	0.9	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
9	5,601.563	52.93	68.20	15.27	4.23	V	91.6	2.00
10	5,779.375	97.66			4.89	V	1	1.00
11	5,962.125	53.82	68.20	14.38	5.52	V	41.4	2.00



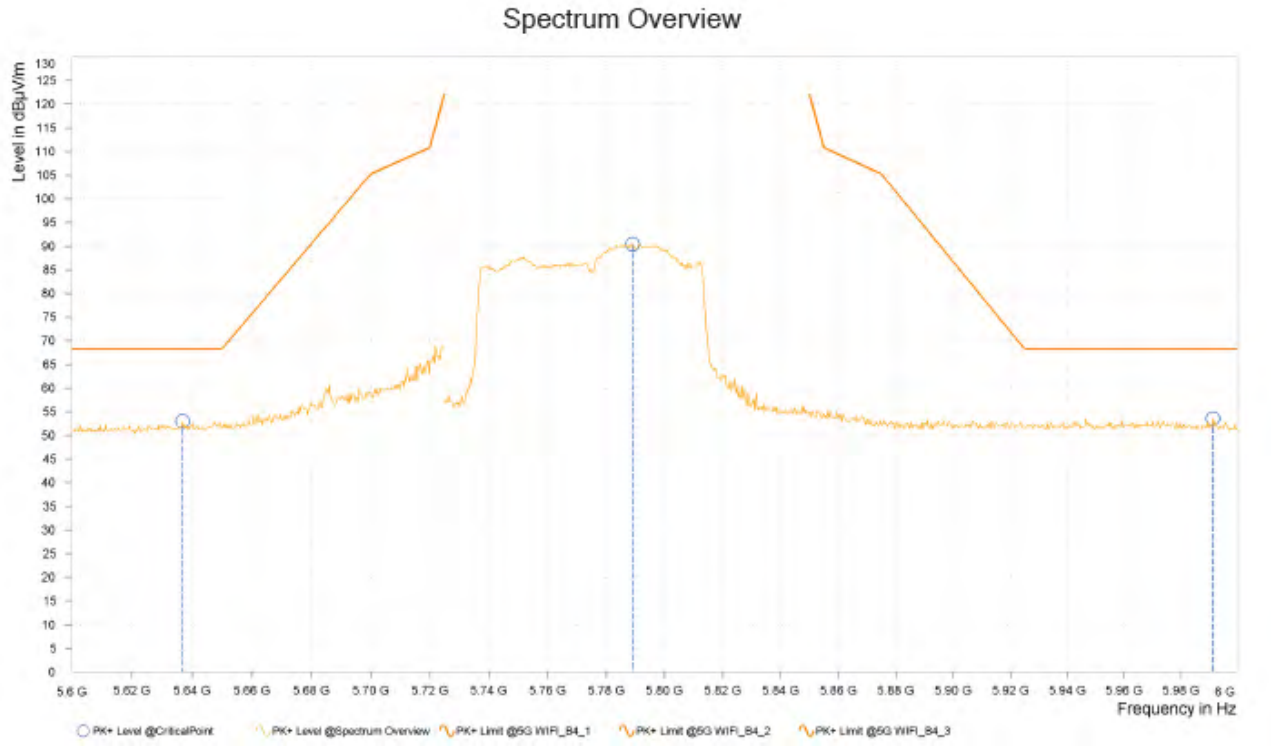
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5795MHz: Fundamental frequency.

802.11ac (80MHz)

CHANNEL	TX Channel 155	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,636.875	52.96	68.20	15.24	4.35	H	139.4	2.00
6	5,789.063	90.44			4.97	H	272.1	2.00
7	5,991.375	53.54	68.20	14.66	5.77	H	359.1	1.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+ Limit [dBµV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	5,640.000	53.16	68.20	15.04	4.36	V	1	1.00
6	5,756.250	93.66			4.68	V	359	2.00
7	5,926.125	53.19	68.20	15.01	5.49	V	1	2.00

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5775MHz: Fundamental frequency.

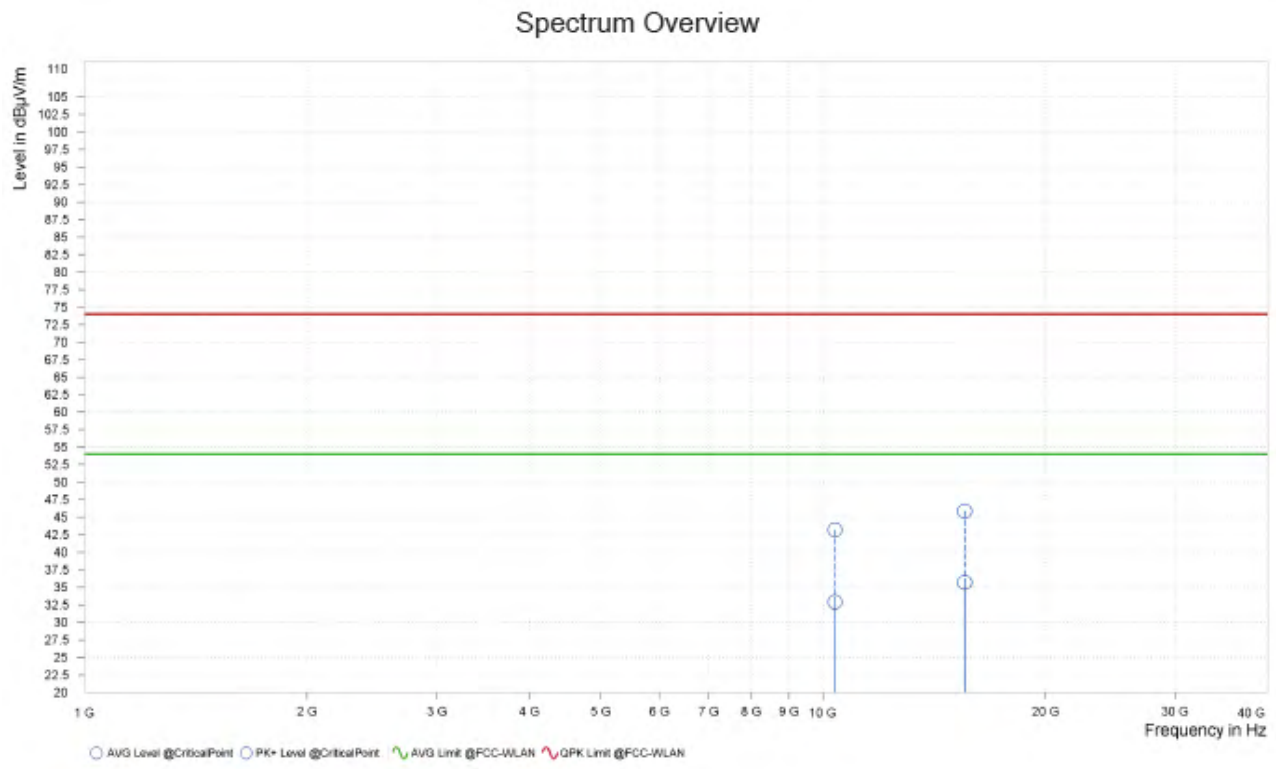
RADIATED EMISSION MEASUREMENT

Band 1

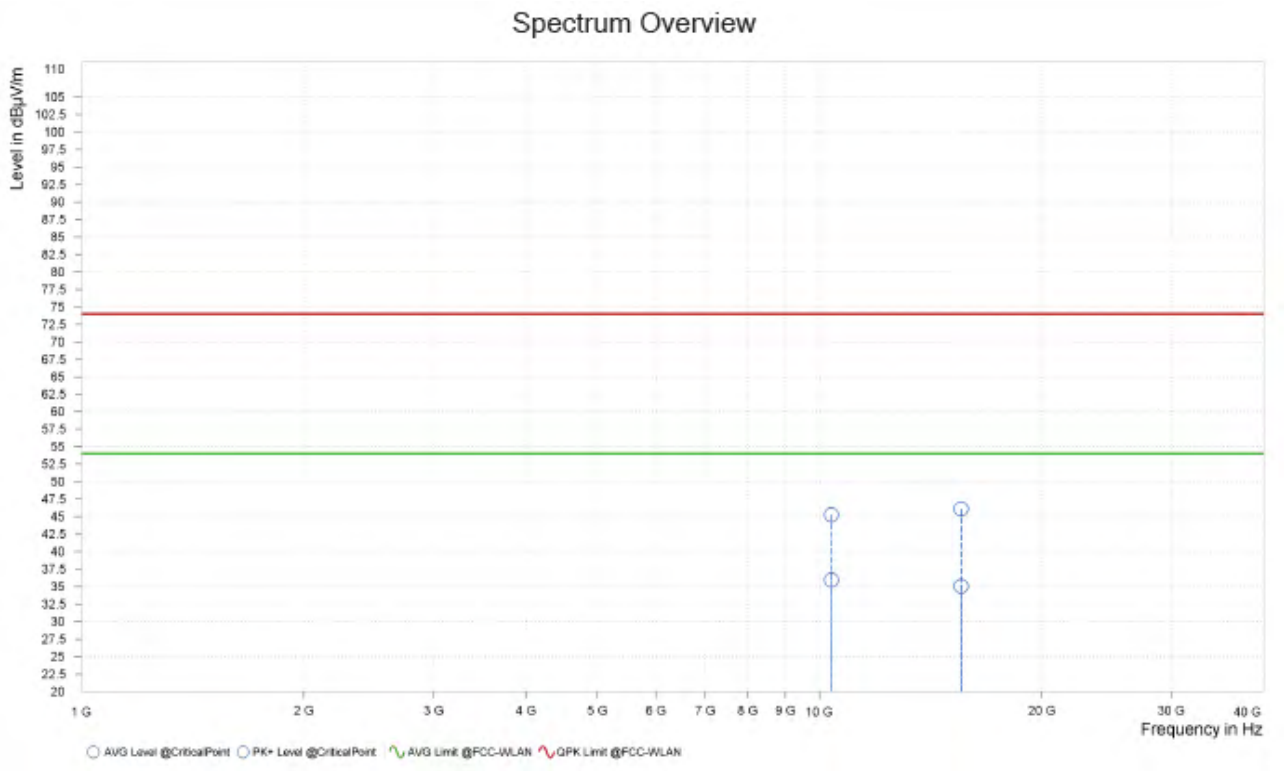
802.11ac (40MHz)

CHANNEL	TX Channel 38	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	10,380.000	43.23	74.00	30.77	32.91	54.00	21.09	11.64	H	0.9	2.00
4	15,570.000	45.88	74.00	28.12	35.69	54.00	18.31	16.46	H	359	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	10,380.000	45.28	74.00	28.72	35.95	54.00	18.05	11.64	V	1	1.00
4	15,570.000	46.09	74.00	27.91	35.07	54.00	18.93	16.46	V	1	2.00



REMARKS:

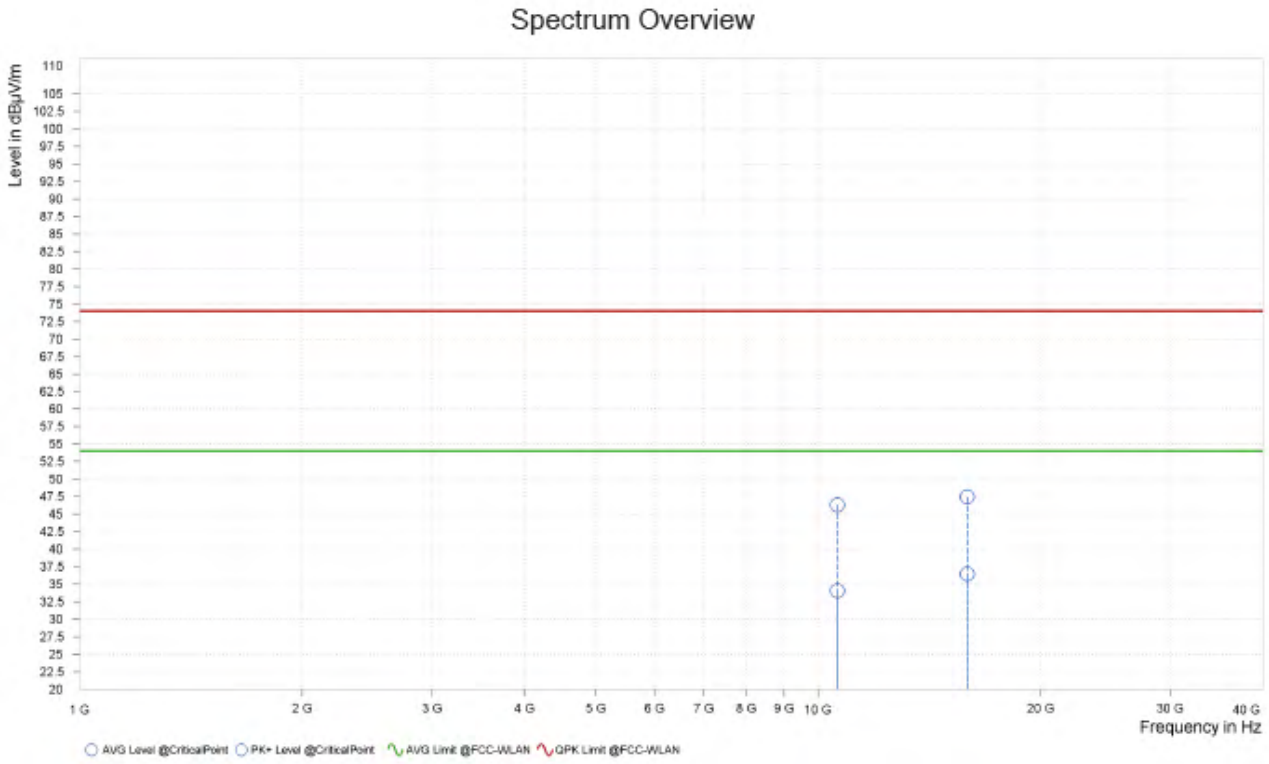
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5180MHz: Fundamental frequency.

Band 2：

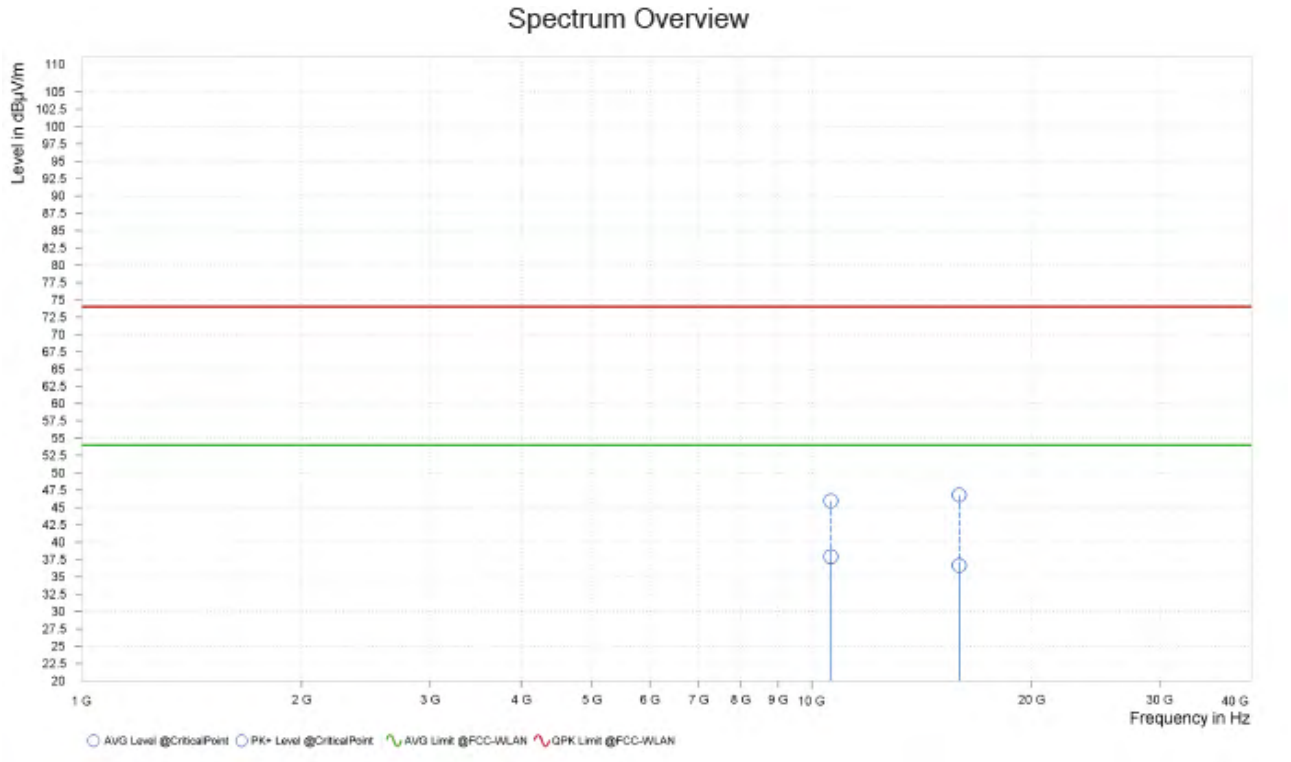
802.11ac (40MHz)

CHANNEL	TX Channel 62	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	10,620.000	46.31	74.00	27.69	34.05	54.00	19.95	12.34	H	1	1.00
4	15,930.000	47.44	74.00	26.56	36.45	54.00	17.55	17.20	H	359	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	10,620.000	45.95	74.00	28.05	37.92	54.00	16.08	12.34	V	359.1	1.00
4	15,930.000	46.80	74.00	27.20	36.68	54.00	17.32	17.20	V	1	2.00



REMARKS:

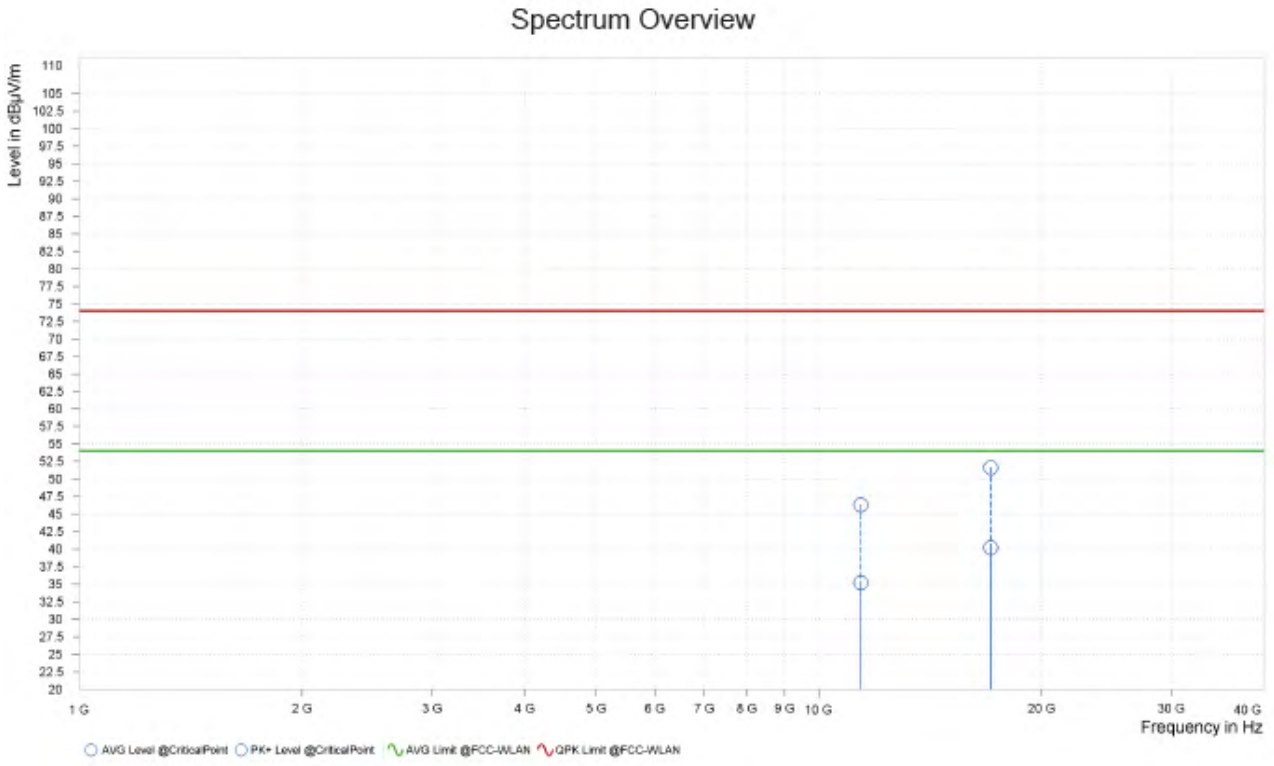
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5260MHz: Fundamental frequency.

Band 3：

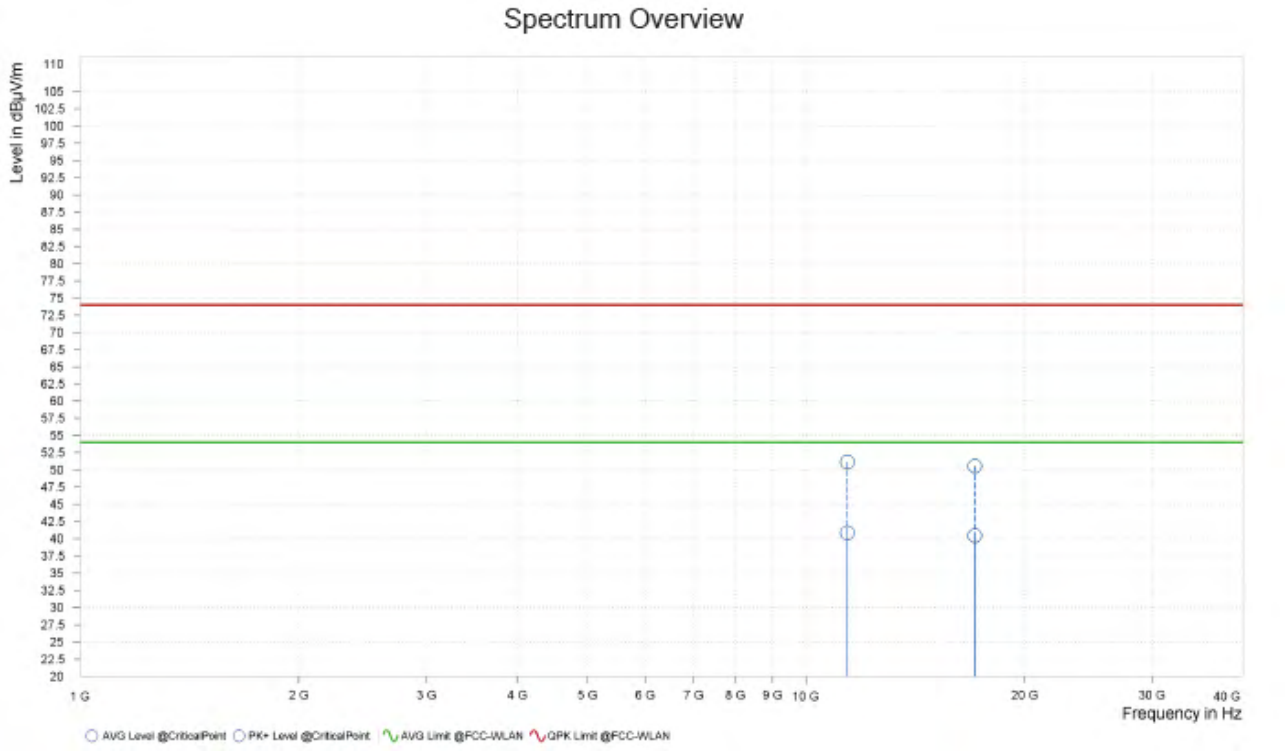
802.11n (20MHz)

CHANNEL	TX Channel 140	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	11.400.000	46.33	74.00	27.67	35.22	54.00	18.78	12.41	H	359.1	1.00
4	17.100.000	51.63	74.00	22.37	40.21	54.00	13.79	22.24	H	1.6	2.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	11.400.000	51.19	74.00	22.81	40.84	54.00	13.16	12.41	V	1	1.00
4	17.100.000	50.57	74.00	23.43	40.47	54.00	13.53	22.24	V	359.1	1.00



REMARKS:

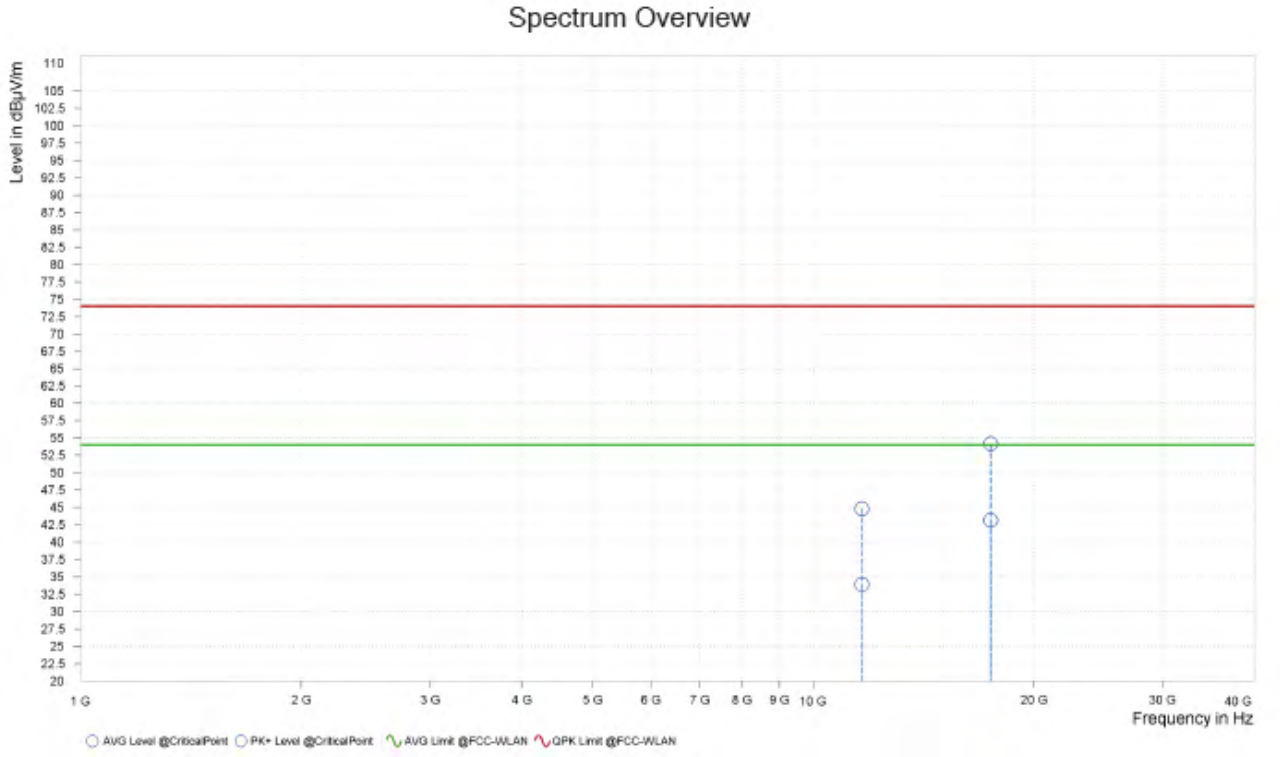
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5700MHz: Fundamental frequency.

Band 4

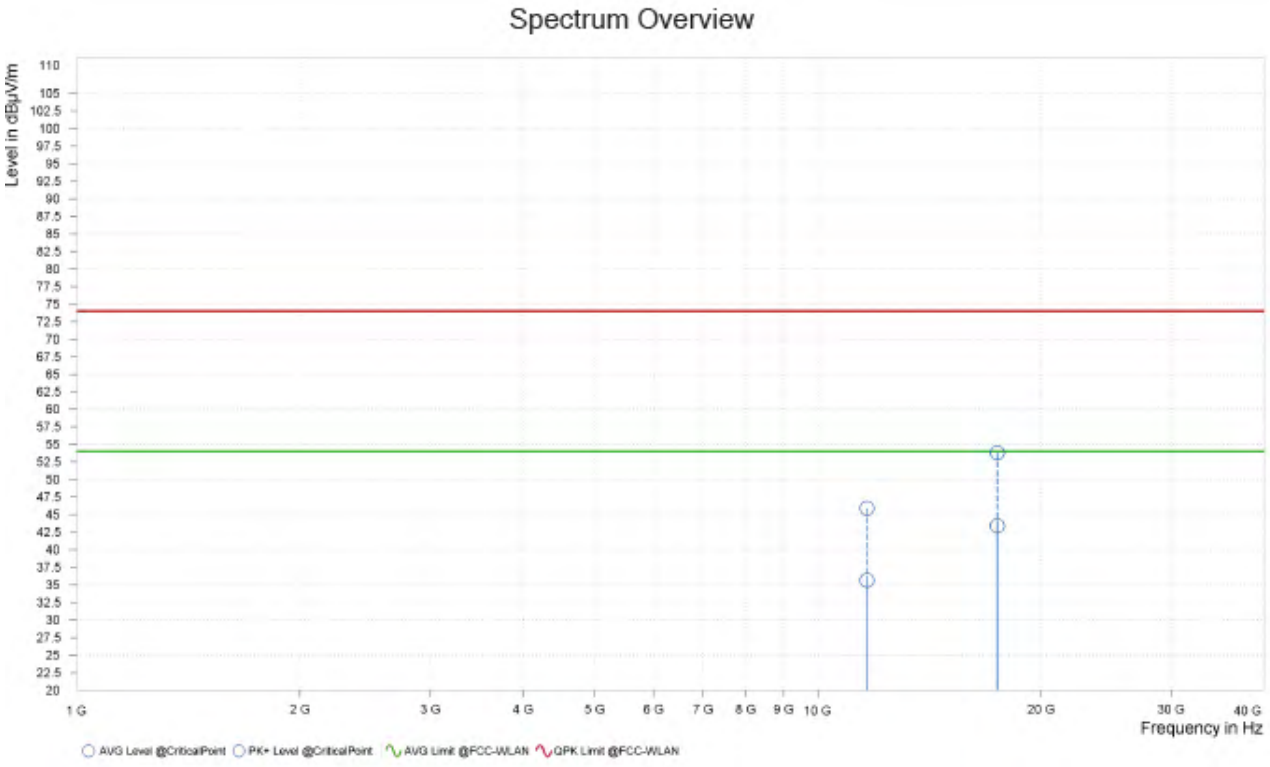
802.11ac (20MHz)

CHANNEL	TX Channel 165	**DETECTOR FUNCTION**	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	11,650.000	44.83	74.00	29.17	33.92	54.00	20.08	12.69	H	0.9	2.00
4	17,475.000	54.17	74.00	19.83	43.16	54.00	10.84	25.22	H	359.1	1.00



Rg	Frequency [MHz]	PK+ Level [dBµV/m]	PK+: QPK Limit [dBµV/m]	PK+ Margin [dB]	AVG Level [dBµV/m]	AVG Limit [dBµV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	11,650.000	45.89	74.00	28.11	35.68	54.00	18.32	12.69	V	359	1.00
4	17,475.000	53.80	74.00	20.20	43.40	54.00	10.60	25.22	V	1	1.00



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Limit value- Emission level.
2. 5825MHz: Fundamental frequency.

3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	102749	Feb.25,24	Feb.24,26
ELEKTRA test software	Rohde&Schwarz	ELEKTRA	NA	N/A	N/A
LISN network	Rohde&Schwarz	ENV216	102640	Feb.17,24	Feb.16,26
CABLE	Rohde&Schwarz	W61.01	N/A	Apr.28,24	Apr.27,25
CABLE	Rohde&Schwarz	W601	N/A	Apr.28,24	Apr.27,25

NOTE:

1. The test was performed in the CE shielded room.
2. The calibration interval of the above test instruments is 12 months or 24 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA, and NIM/CHINA.

3.2.3 TEST PROCEDURES

a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

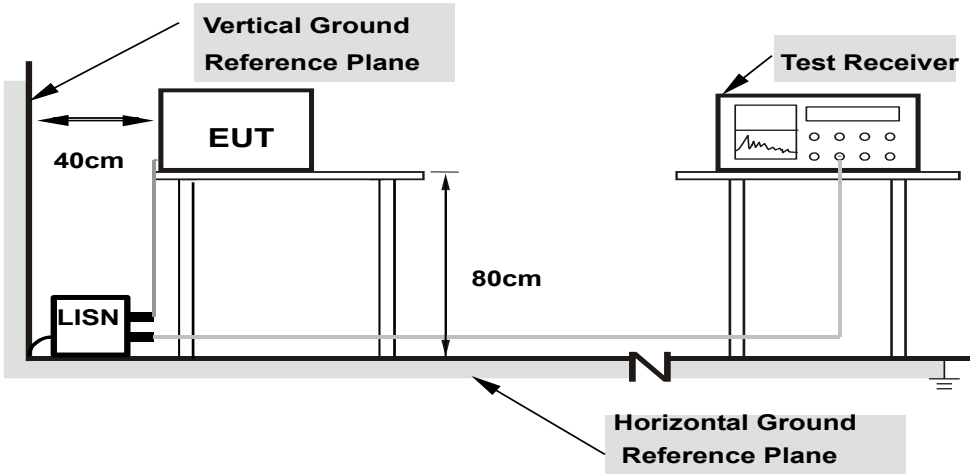
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: All modes of operation were investigated, and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

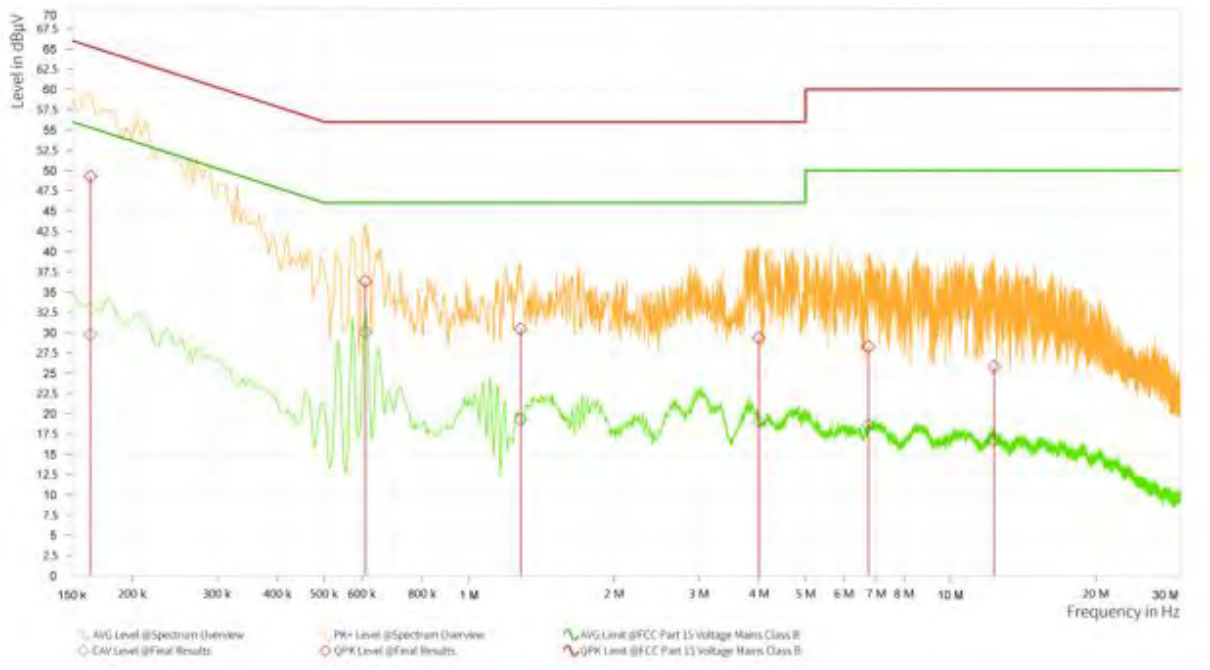
3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	26deg. C, 51%RH
Tested By	Hanwen Xu		

Rg	Frequency [MHz]	QPK Level [dBuV]	QPK Limit [dBuV]	QPK Margin [dB]	CAV Level [dBuV]	CAV: AVG Limit [dBuV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.164	49.27	65.28	16.01	29.74	55.28	25.54	12.41	L1	9.000
1	0.609	36.32	56.00	19.68	30.06	46.00	15.94	11.74	L1	9.000
1	1.280	30.46	56.00	25.54	19.30	46.00	26.70	11.75	L1	9.000
1	3.998	29.35	56.00	26.65	18.97	46.00	27.03	11.78	L1	9.000
1	6.752	28.24	60.00	31.76	18.52	50.00	31.48	11.80	L1	9.000
1	12.305	25.82	60.00	34.18	16.74	50.00	33.26	11.84	L1	9.000

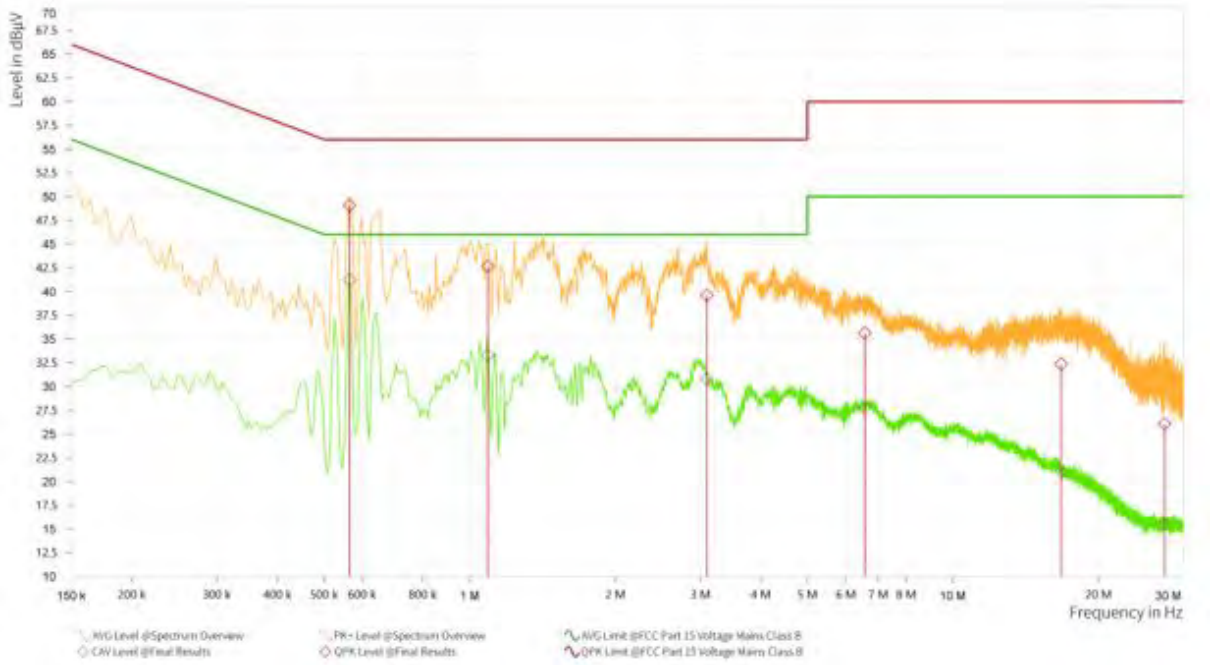
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



Frequency Range	150KHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	26deg. C, 51%RH
Tested By	Hanwen Xu		

Rg	Frequency [MHz]	QPK Level [dBuV]	QPK Limit [dBuV]	QPK Margin [dB]	CAV Level [dBuV]	CAV: AVG Limit [dBuV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.564	49.07	56.00	6.93	41.21	46.00	4.79	12.77	N	9.000
1	1.091	42.66	56.00	13.34	33.30	46.00	12.70	12.73	N	9.000
1	3.098	39.61	56.00	16.39	30.80	46.00	15.20	12.75	N	9.000
1	6.572	35.61	60.00	24.39	27.69	50.00	22.31	12.77	N	9.000
1	16.769	32.36	60.00	27.64	21.05	50.00	28.95	12.83	N	9.000
1	27.447	26.08	60.00	33.92	15.54	50.00	34.46	12.88	N	9.000

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Limit value - Emission level
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

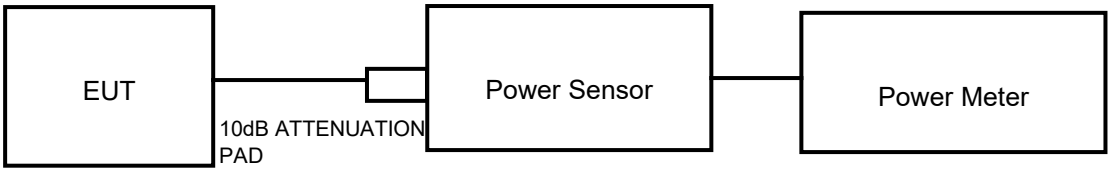
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

NOTE: Where B is the 26dB emission bandwidth in MHz

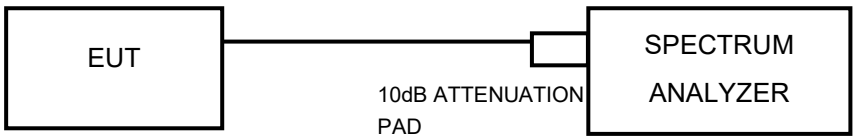
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

802.11a, 802.11n/ac (20MHz), 802.11 n/ac (40MHz), 802.11ac (80MHz) TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	R&S	ESW 44	101973	Feb.25,22	Feb.24,24
Open Switch and Control Unit	R&S	OSP-B157W8	100836	N/A	N/A
Vector Signal Generator	R&S	SMBV100B	102176	Feb.16,22	Feb.15,24
Signal Generator	R&S	SMB100A03	182185	Feb.16,22	Feb.15,24
Wideband Radio Communication	R&S	CMW500	169399	Jun.26,22	Jun.25,24
Hygrothermograph	DELI	20210528	SZ015	Sep.06,22	Sep.05,24
PC	LENOVO	E14	HRSW0024	N/A	N/A
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.28,23	Apr.27,24
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.28,23	Apr.27,24
Test Software	EMC32	EMC32	N/A	N/A	N/A
Temperature Chamber	votsch	VT4002	585660781000050	May.31,22	May.30,24

NOTE:

1. The calibration interval of the above test instruments is 12 months or 24 months, and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in the RF Oven room.

3.3.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11 n/ac (20MHz), 802.11 n/ac (40MHz) , 802.11ac (80MHz)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

FOR 26dB BANDWIDTH

1) Set RBW = approximately 1% of the emission bandwidth.
2) Set the VBW > RBW.
3) Detector = Peak.
4) Trace mode = max hold.
5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by the client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

3.3.7 TEST RESULTS

Please Refer to Appendix Of this test report.

3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Client devices	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.4.2 TEST SETUP

3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information about the above instrument.

3.4.4 TEST PROCEDURES

Using method SA-2(Band1/2/3)
1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
7) Record the max value
Using method SA-2 (Band4)
1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
2) Set RBW = 300 KHz, Set VBW ≥ 1 MHz, Detector = RMS
3) Set Channel power measure = 1MHz
4) Sweep time = auto, trigger set to “free run”.
5) Trace average at least 100 traces in power averaging mode.
6) Add 10 log(500kHz/RBW) to the test result. 10 log(500kHz/300KHZ) = 2.22dBm
7) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
8) Record the max value

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.7.

3.4.7 TEST RESULTS

Please Refer to Appendix Of this test report.

3.5 AUTOMATICALLY DISCONTINUE TRANSMISSION

3.5.1 LIMIT OF AUTOMATICALLY DISCONTINUE TRANSMISSION

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.5.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information about the above instrument.

3.5.3 TEST RESULT

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving。 The EUT can detect the controlling of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.6 ANTENNA REQUIREMENTS

3.6.1 STANDARD APPLICABLE

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmits power, and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 ANTENNA CONNECTED CONSTRUCTION

An embedded-in antenna design is used.

3.6.3 ANTENNA GAIN

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit and PSD limit.

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

6 APPENDIX: RLAN

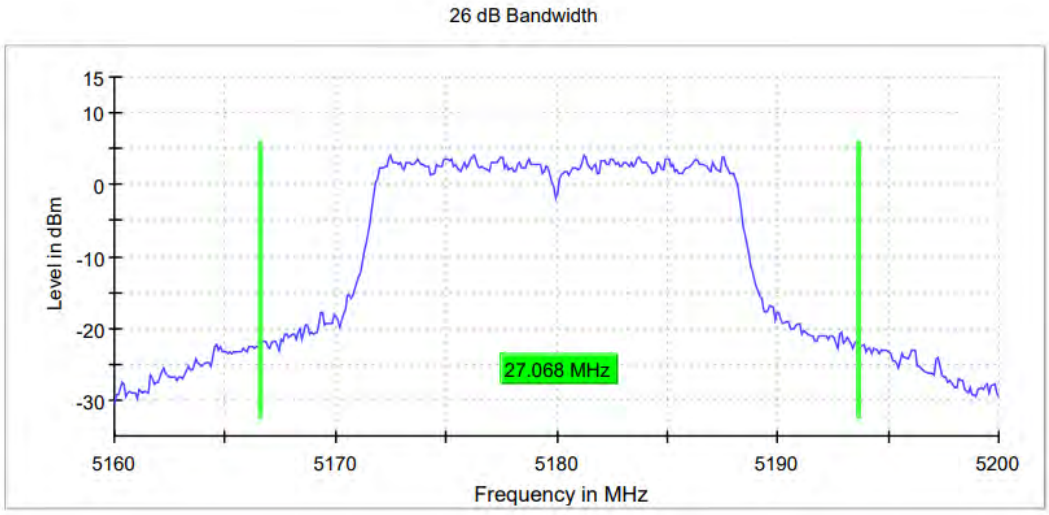
EMISSION BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	27.068	5166.617	5193.685	---	---
	Ant0	5200	26.667	5187.519	5214.186	---	---
	Ant0	5240	30.376	5224.712	5255.088	---	---
	Ant0	5260	33.784	5243.208	5276.992	---	---
	Ant0	5300	32.180	5284.612	5316.792	---	---
	Ant0	5320	32.180	5303.910	5336.090	---	---
	Ant0	5500	33.183	5483.208	5516.391	---	---
	Ant0	5580	31.880	5563.609	5595.489	---	---
	Ant0	5700	31.779	5683.810	5715.589	---	---
	Ant0	5745	29.574	5730.614	5760.188	---	---
	Ant0	5785	29.774	5770.614	5800.388	---	---
	Ant0	5825	28.672	5811.316	5839.988	---	---
11AC20-MIMO	Ant0	5180	32.281	5164.912	5197.193	---	---
	Ant0	5200	30.175	5184.712	5214.887	---	---
	Ant0	5240	27.970	5225.714	5253.684	---	---
	Ant0	5260	29.273	5244.612	5273.885	---	---
	Ant0	5300	31.278	5284.712	5315.990	---	---
	Ant0	5320	30.175	5303.609	5333.784	---	---
	Ant0	5500	30.977	5483.609	5514.586	---	---
	Ant0	5580	28.571	5565.815	5594.386	---	---
	Ant0	5700	31.378	5684.712	5716.090	---	---
	Ant0	5745	29.073	5729.612	5758.685	---	---
	Ant0	5785	33.584	5768.509	5802.093	---	---
	Ant0	5825	32.281	5808.509	5840.790	---	---
11AC40-MIMO	Ant0	5190	48.271	5168.647	5216.918	---	---
	Ant0	5230	49.774	5207.143	5256.917	---	---
	Ant0	5270	48.120	5248.797	5296.917	---	---
	Ant0	5310	49.474	5287.444	5336.918	---	---
	Ant0	5510	48.722	5483.534	5532.256	---	---
	Ant0	5550	51.128	5526.541	5577.669	---	---

	Ant0	5670	47.970	5648.947	5696.917	---	---
	Ant0	5755	50.075	5728.383	5778.458	---	---
	Ant0	5795	53.534	5768.383	5821.917	---	---
11AC80-MIMO	Ant0	5210	85.768	5166.614	5252.382	---	---
	Ant0	5290	85.266	5249.122	5334.388	---	---
	Ant0	5530	102.320	5478.088	5580.408	---	---
	Ant0	5610	90.784	5565.110	5655.894	---	---
	Ant0	5690	88.276	5648.119	5736.395	---	---
	Ant0	5775	88.777	5729.608	5818.385	---	---

TEST GRAPHS

11A_Ant0_5180


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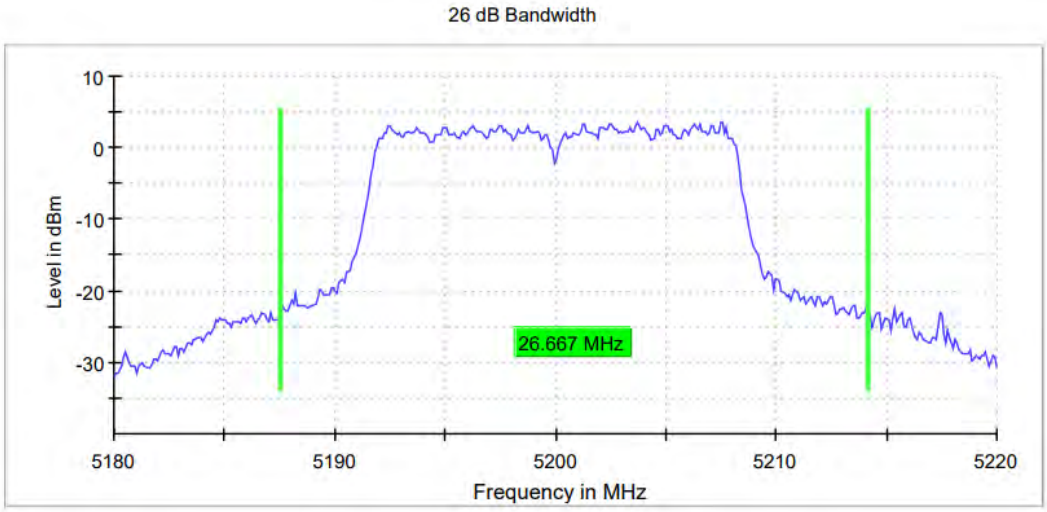
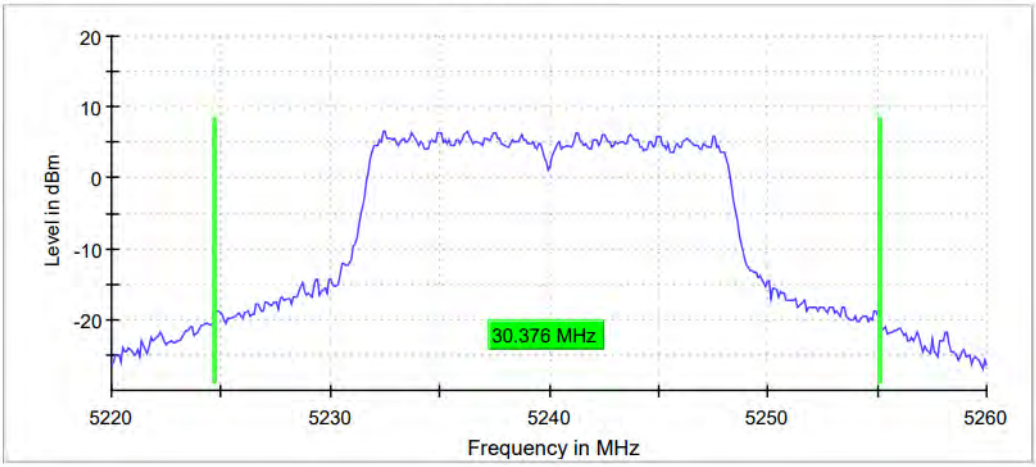


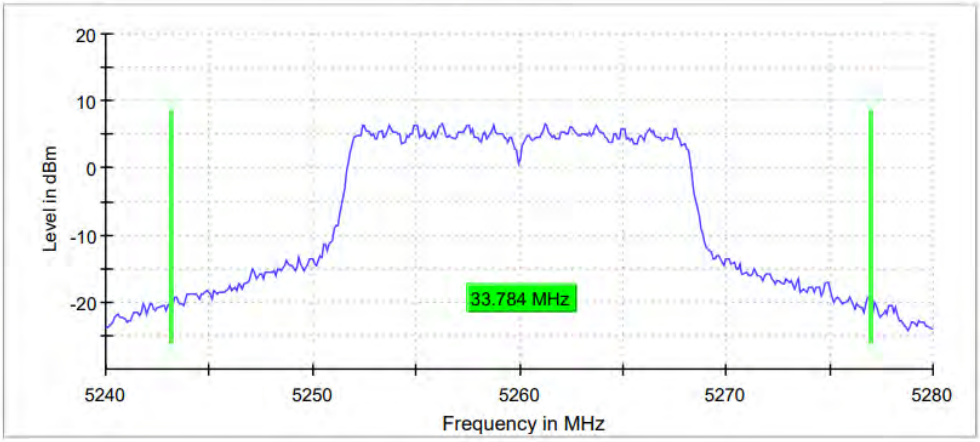
11A _Ant0_5240

26 dB Bandwidth



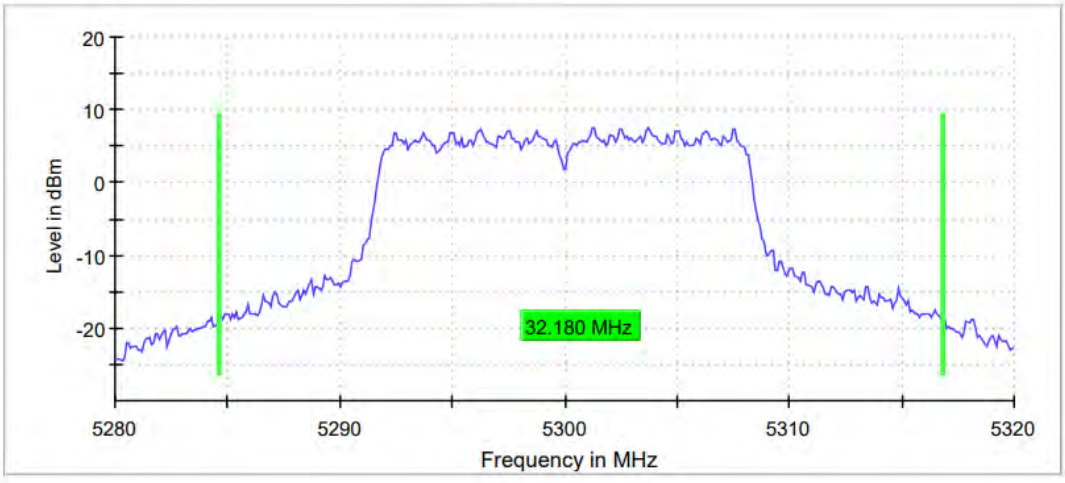
11A _Ant0_5260

26 dB Bandwidth



11A _Ant0_5300

26 dB Bandwidth



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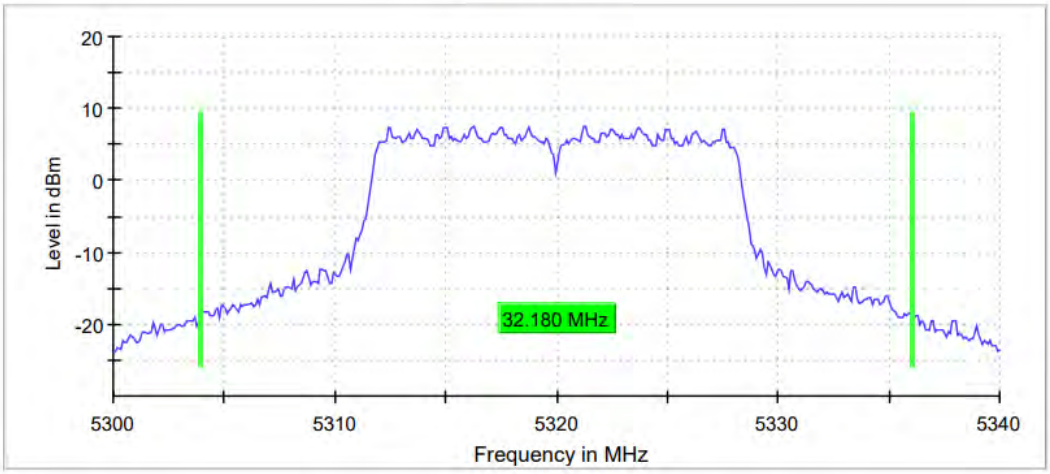
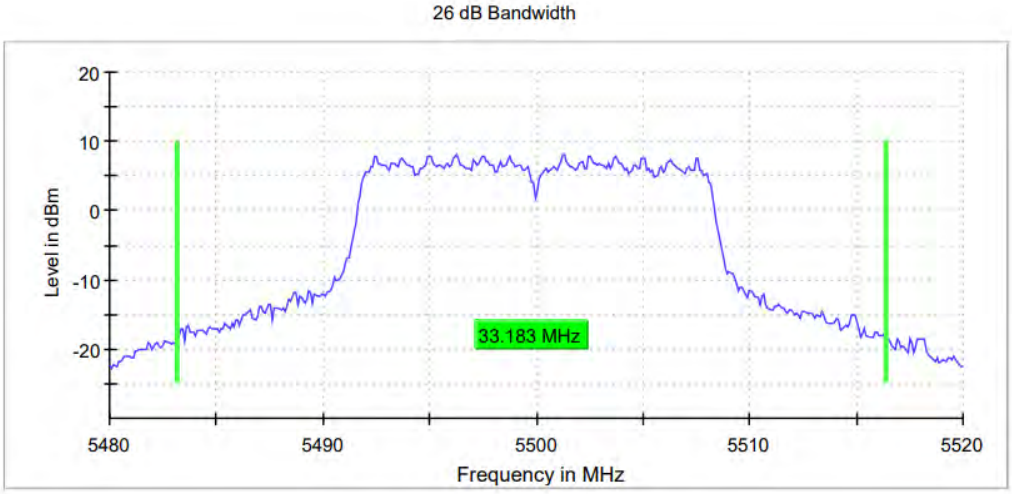


11A _Ant0_5500


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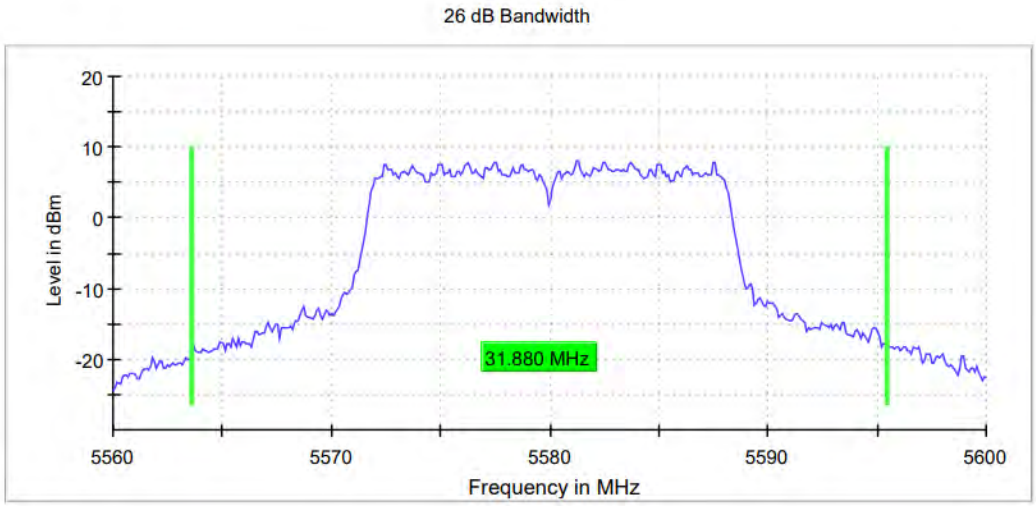
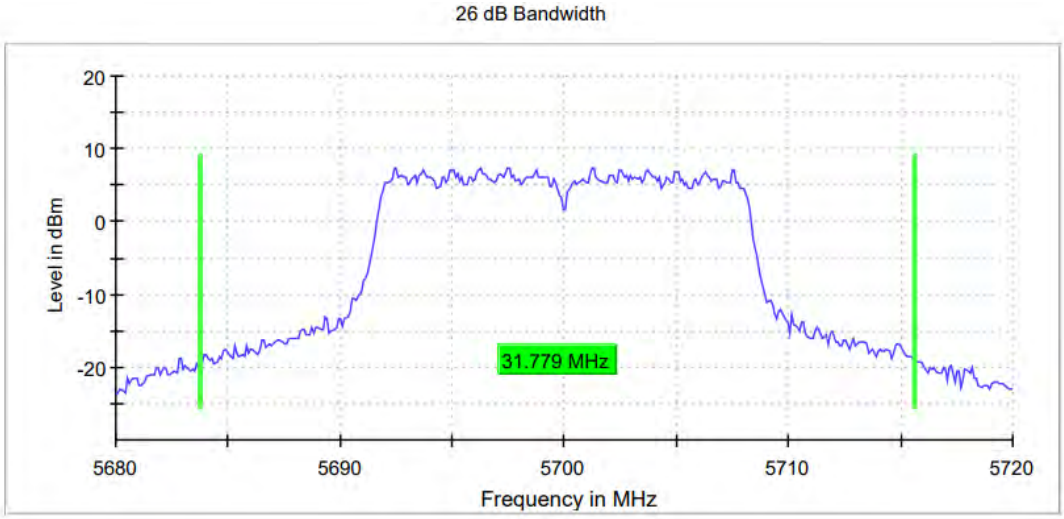


11A _Ant0_5700



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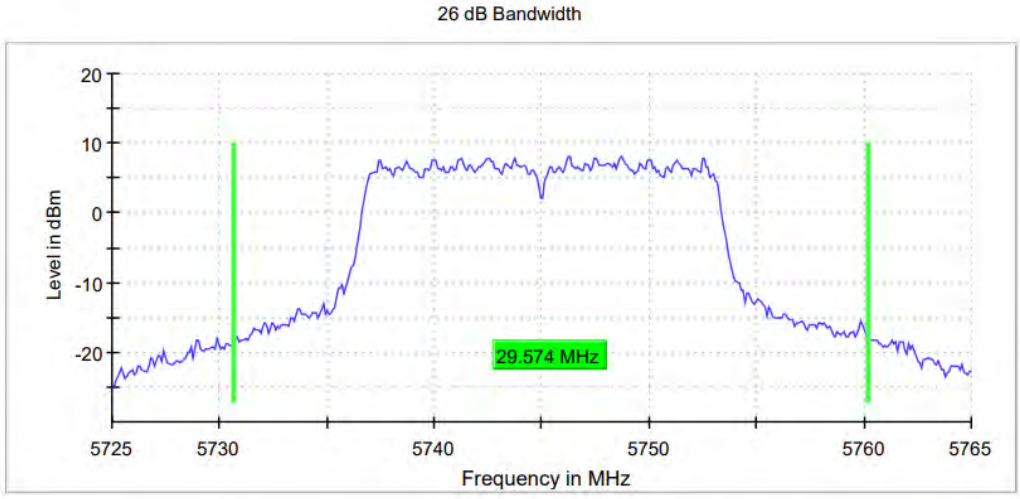

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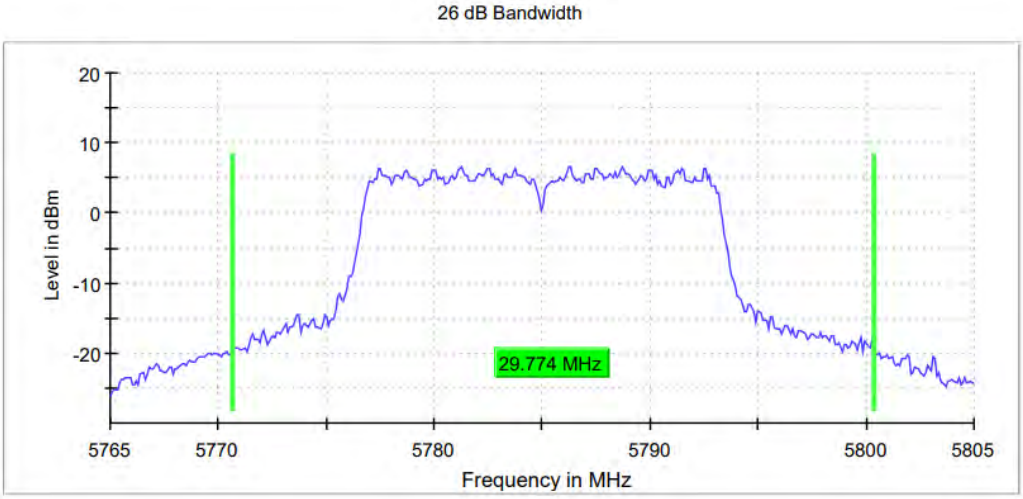

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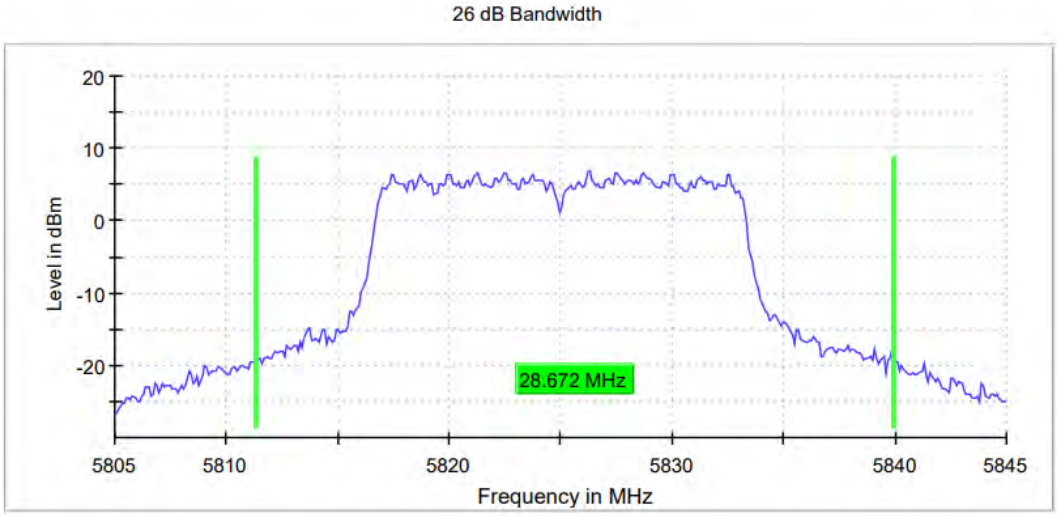
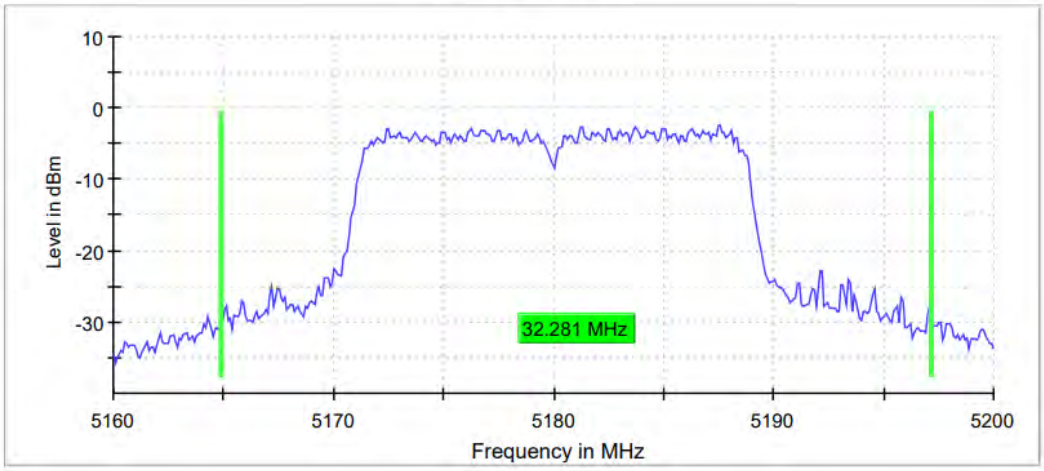


11AC20_Ant0_5180



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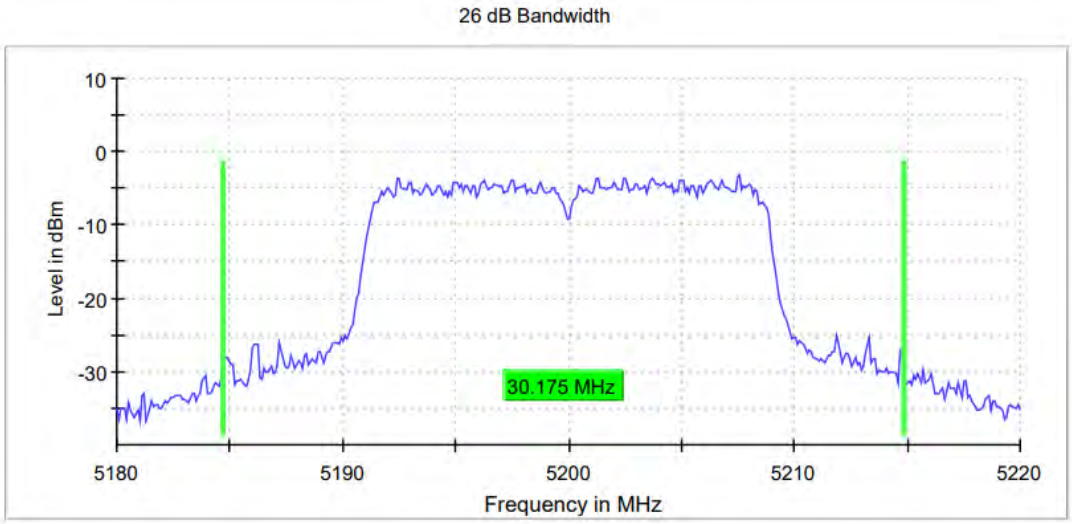
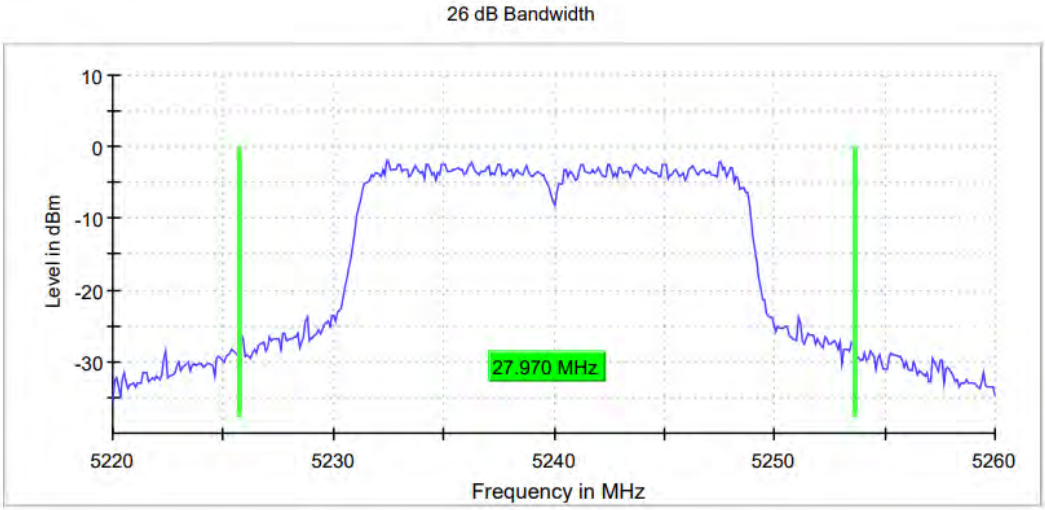
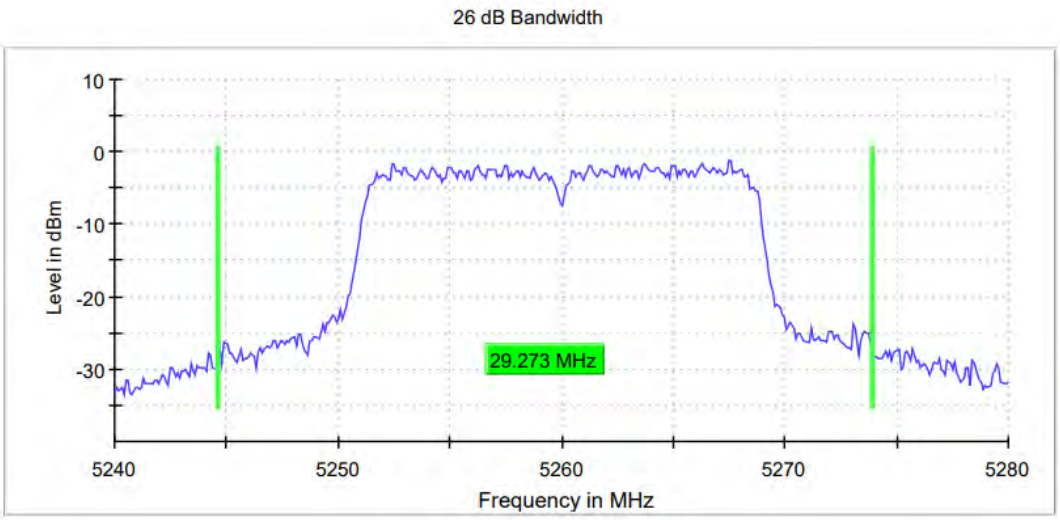


11AC20 _Ant0_5240



11AC20 _Ant0_5260



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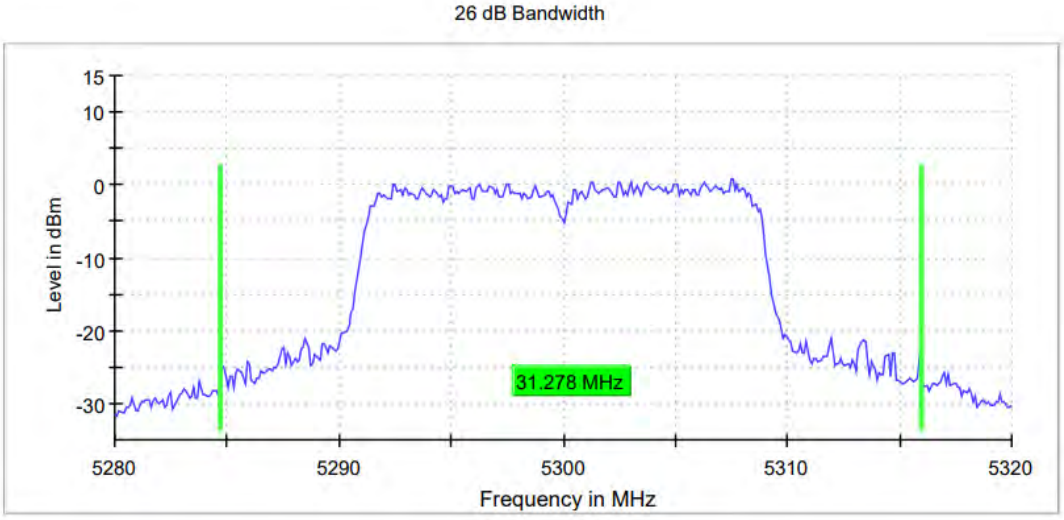

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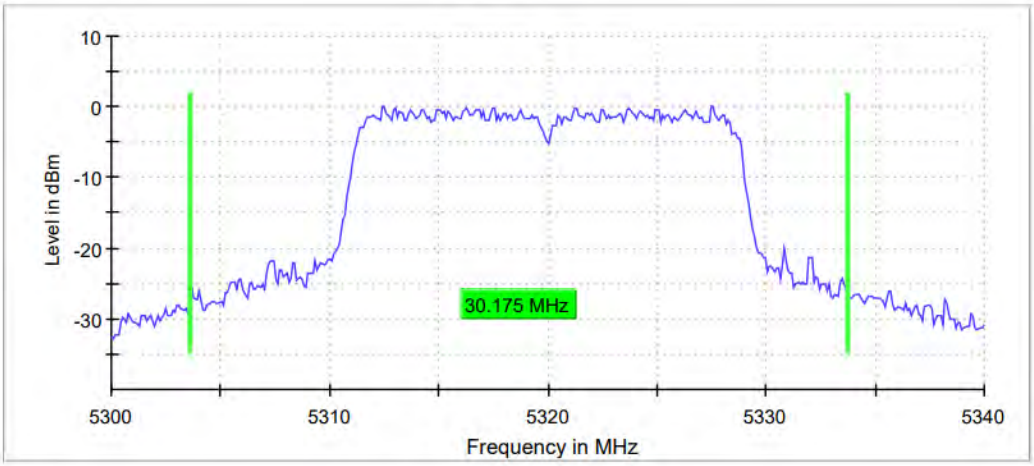
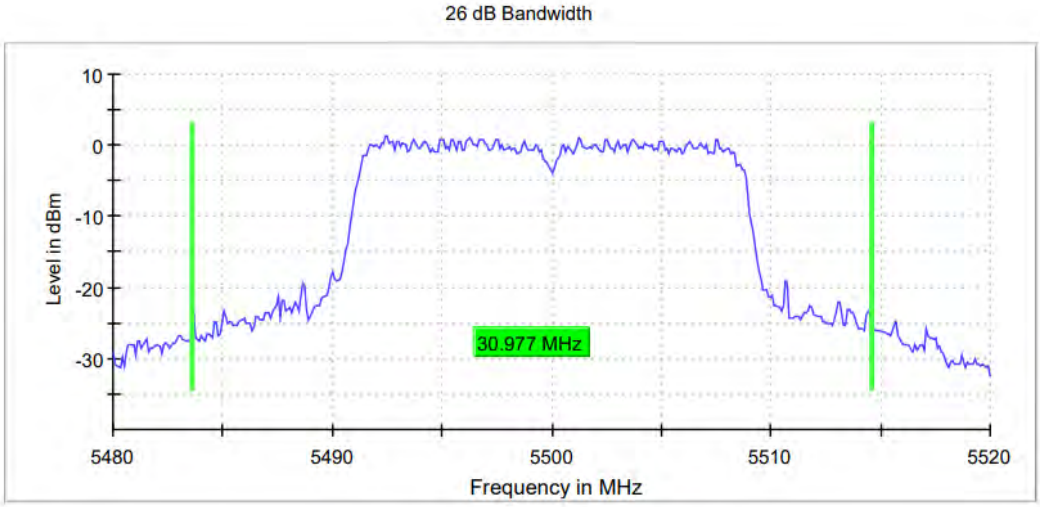
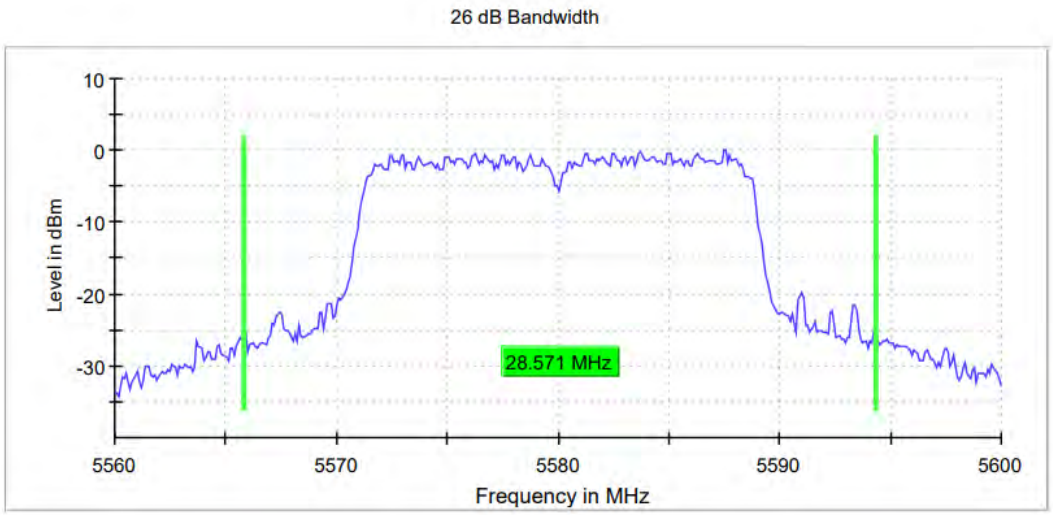


11AC20 _Ant0_5500



11AC20_Ant0_5580



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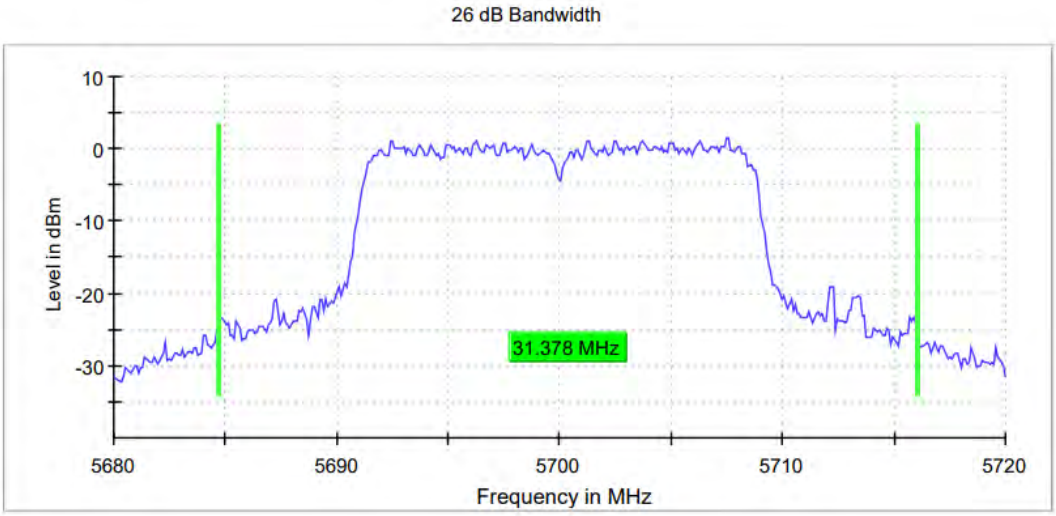

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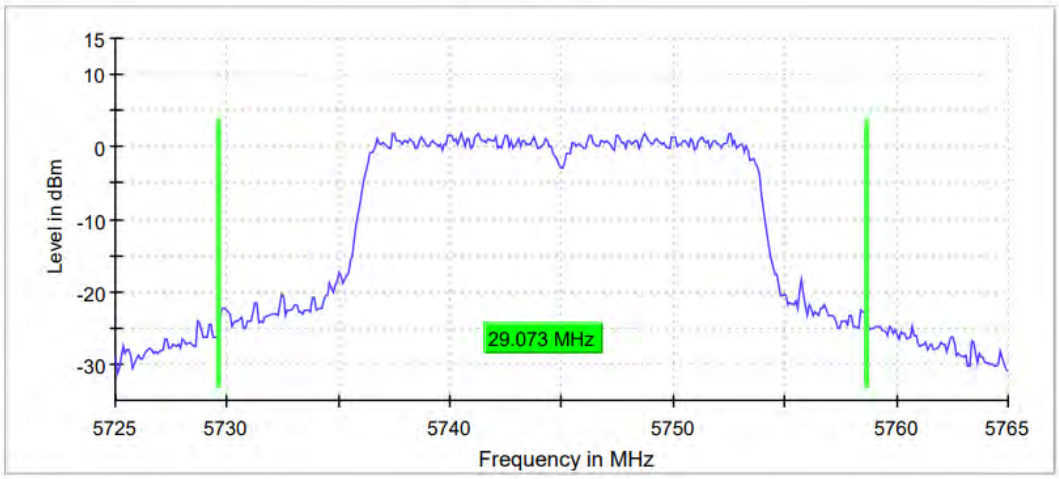
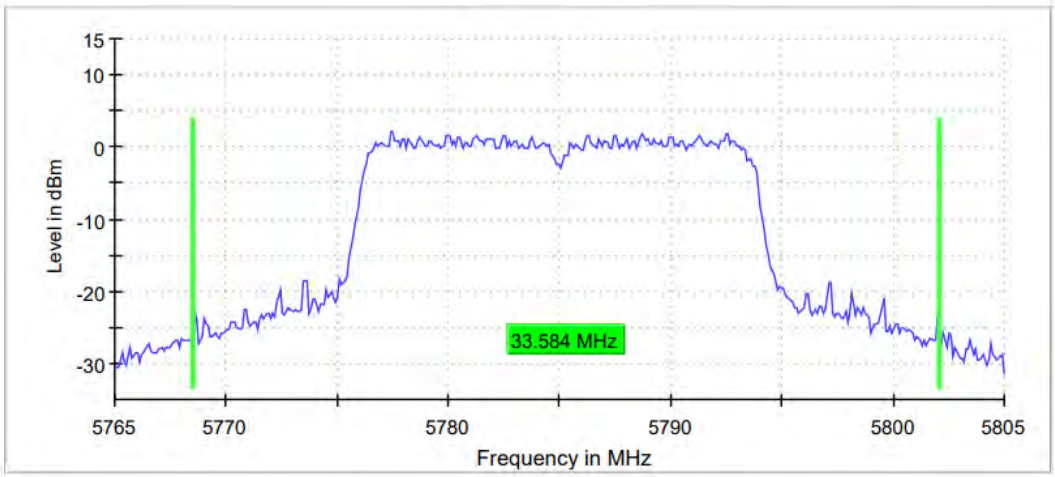


11AC20 _Ant0_5785



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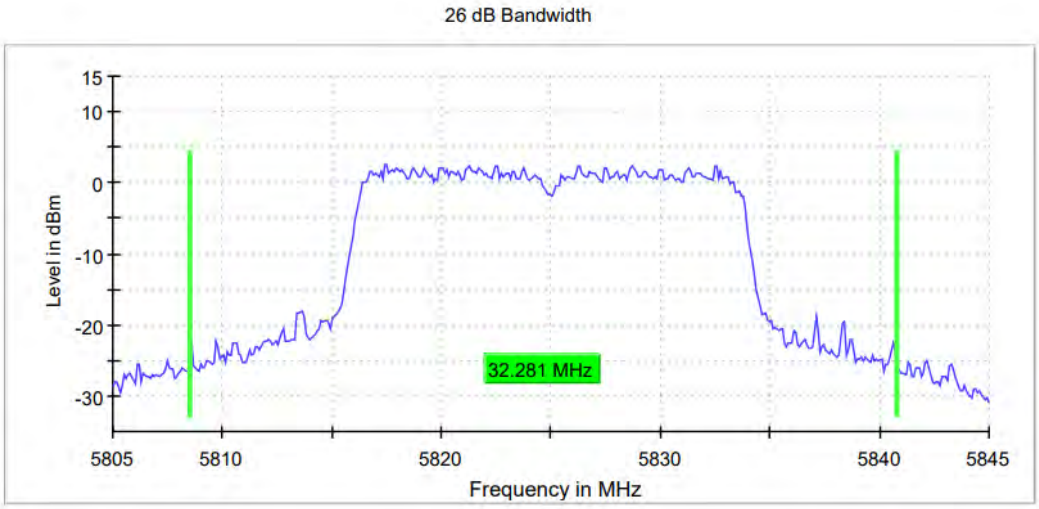
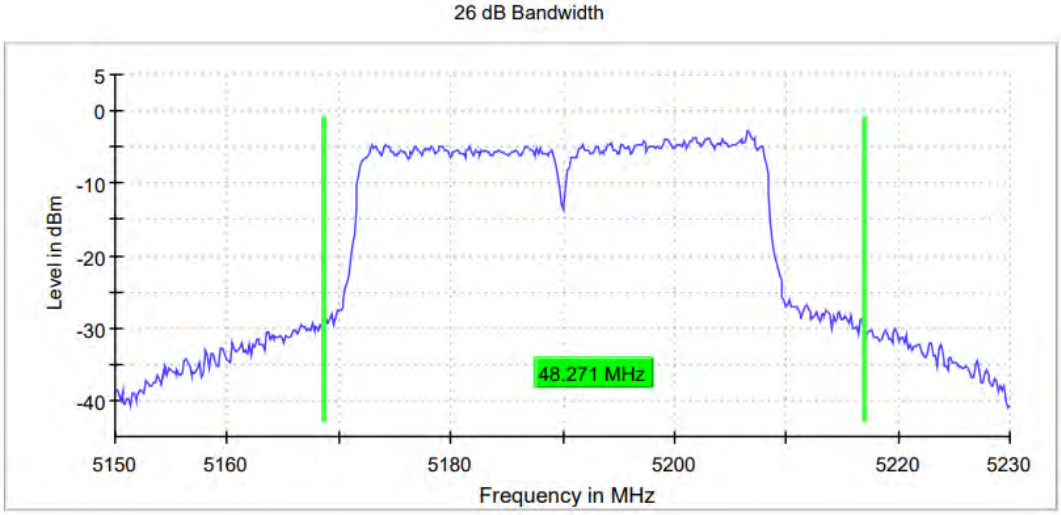
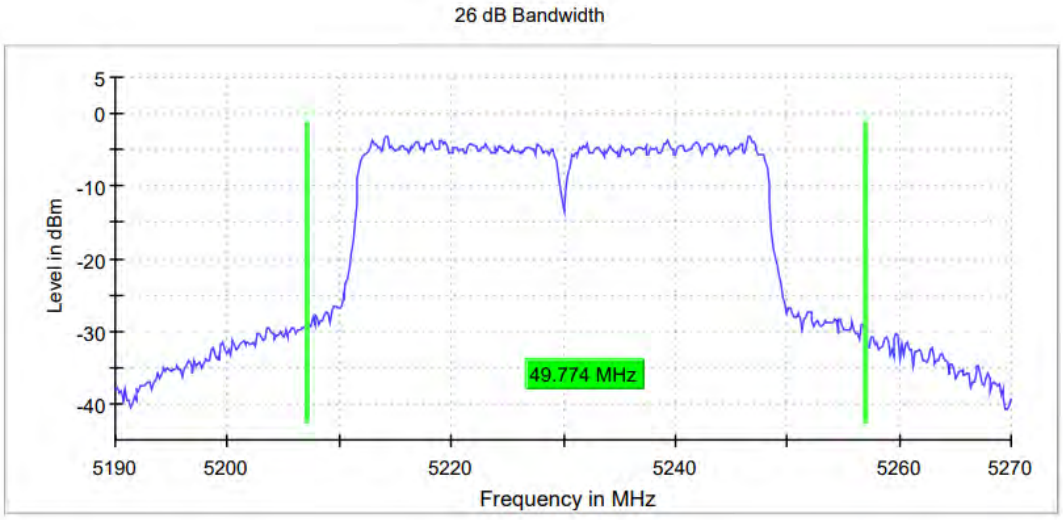


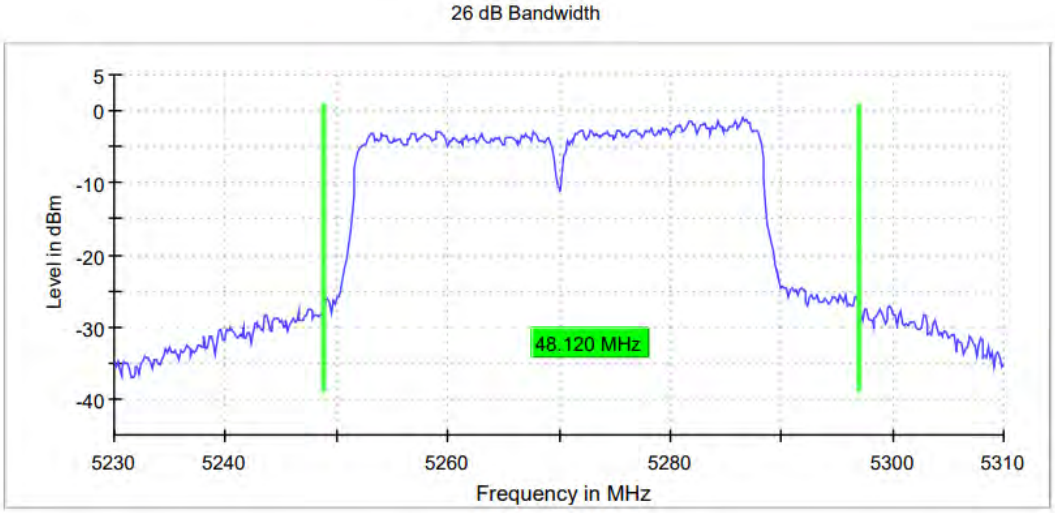
11AC40 _Ant0_5190



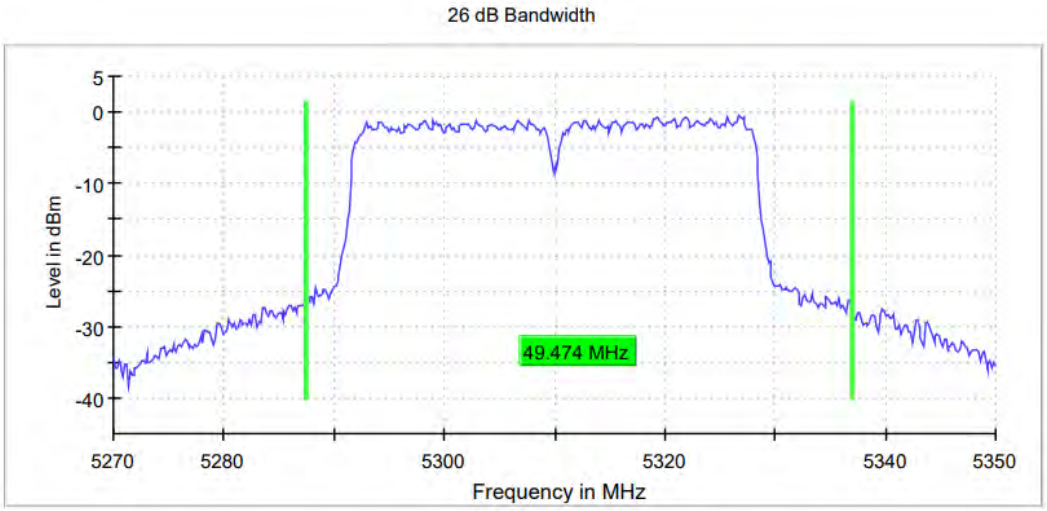
11AC40 _Ant0_5230



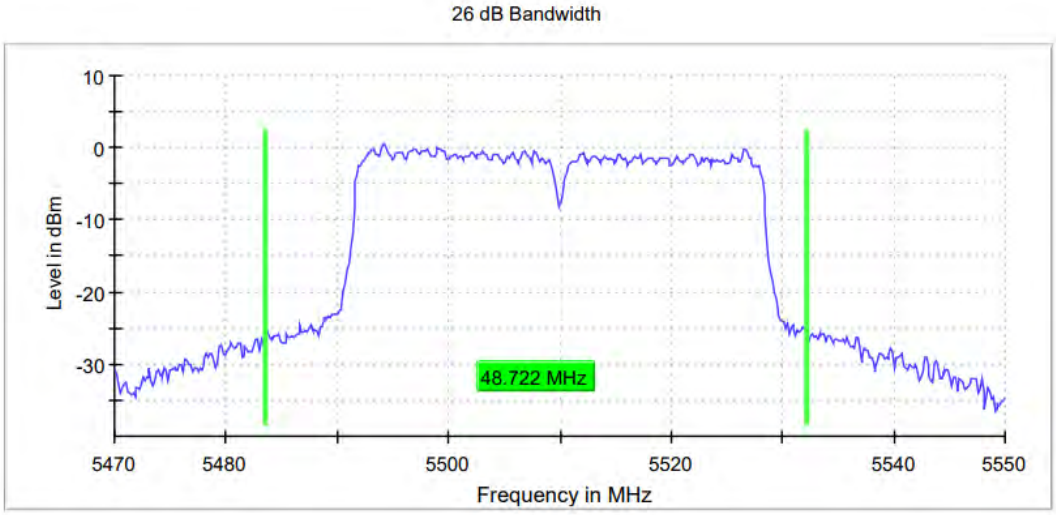
11AC40 _Ant0_5270



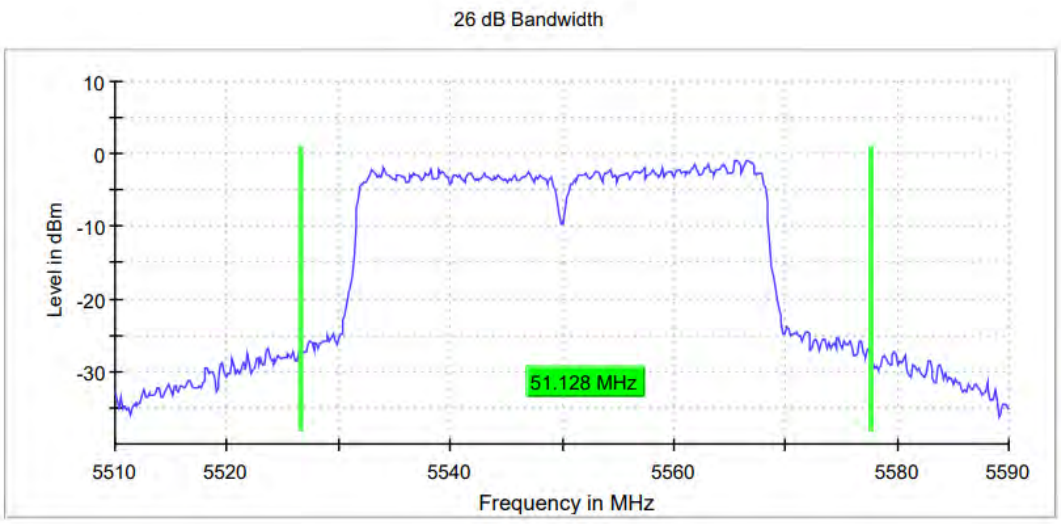
11AC40 _Ant0_5310



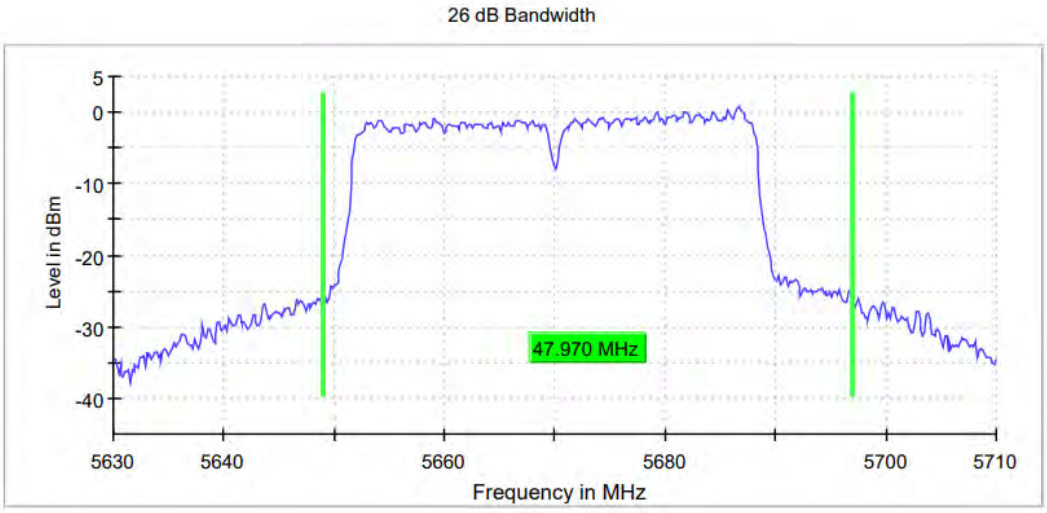
11AC40 _Ant0_5510



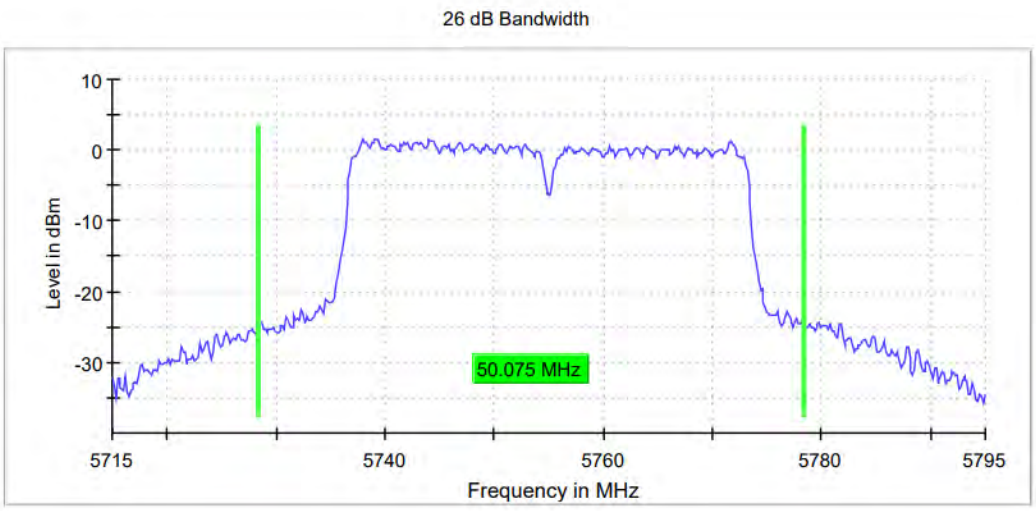
11AC40 _Ant0_5550



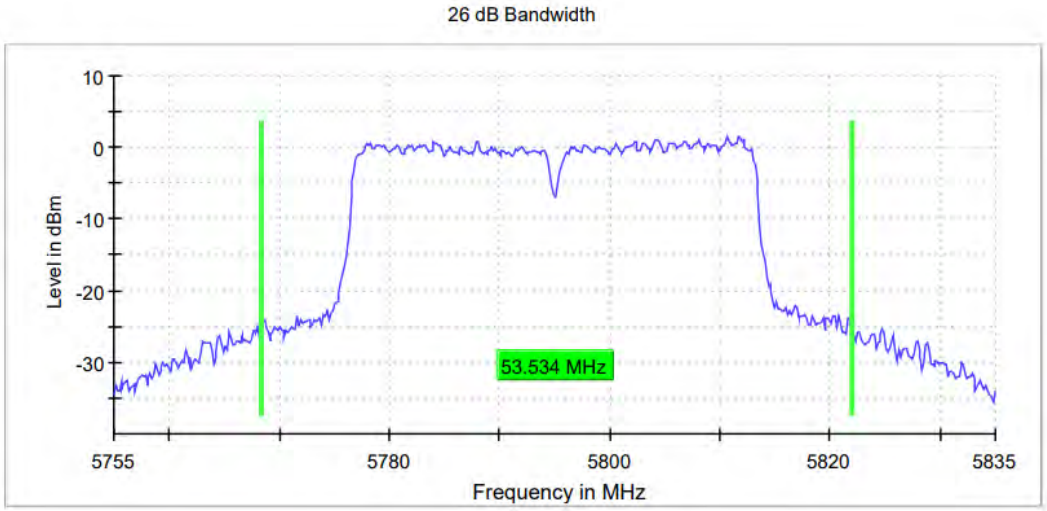
11AC40 _Ant0_5670



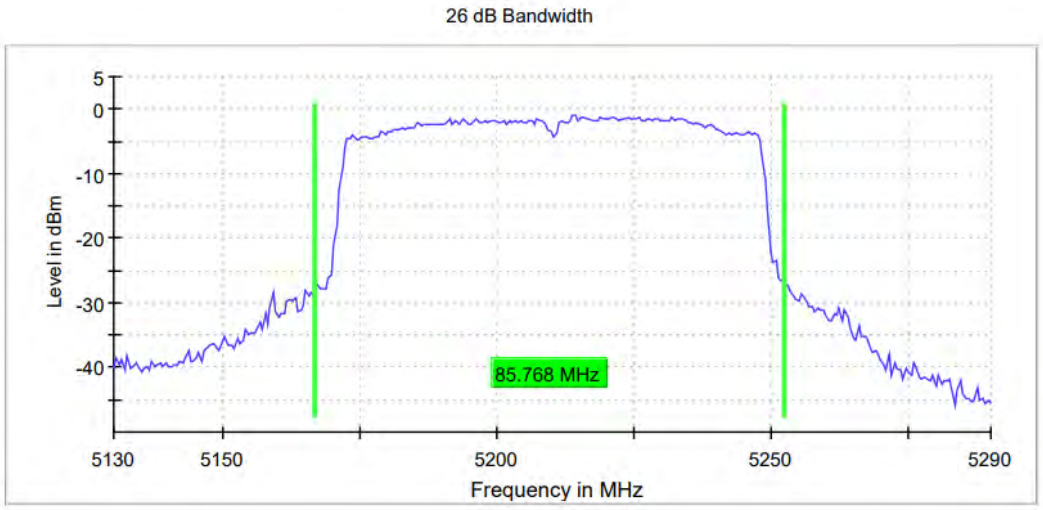
11AC40 _Ant0_5755



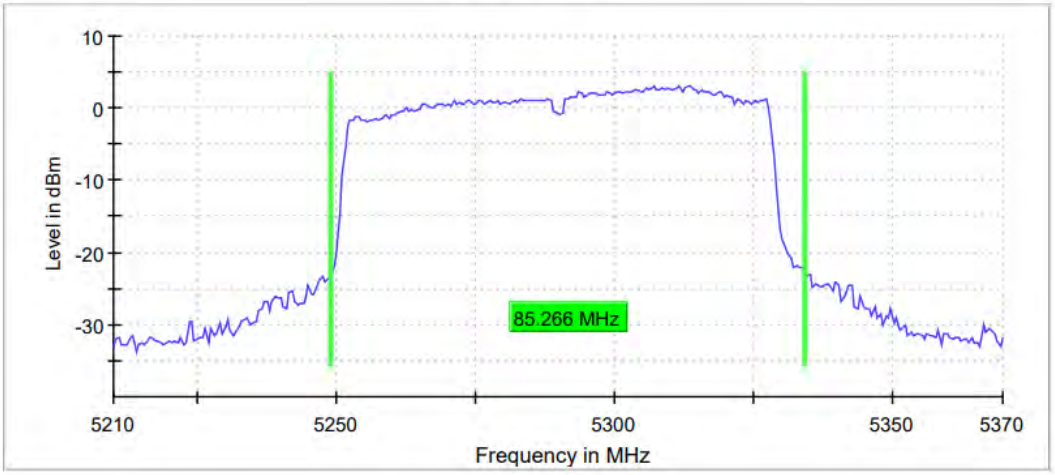
11AC40 _Ant0_5795



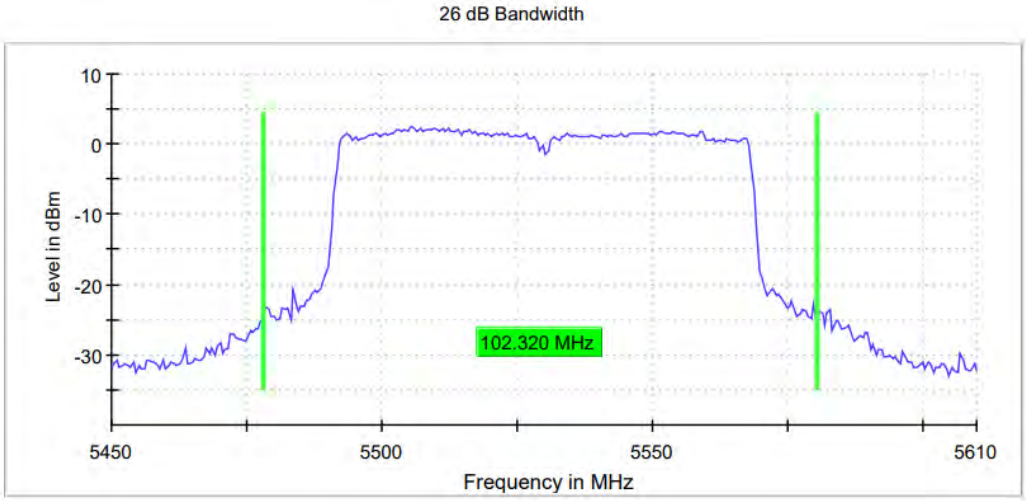
11AC80 _Ant0_5210



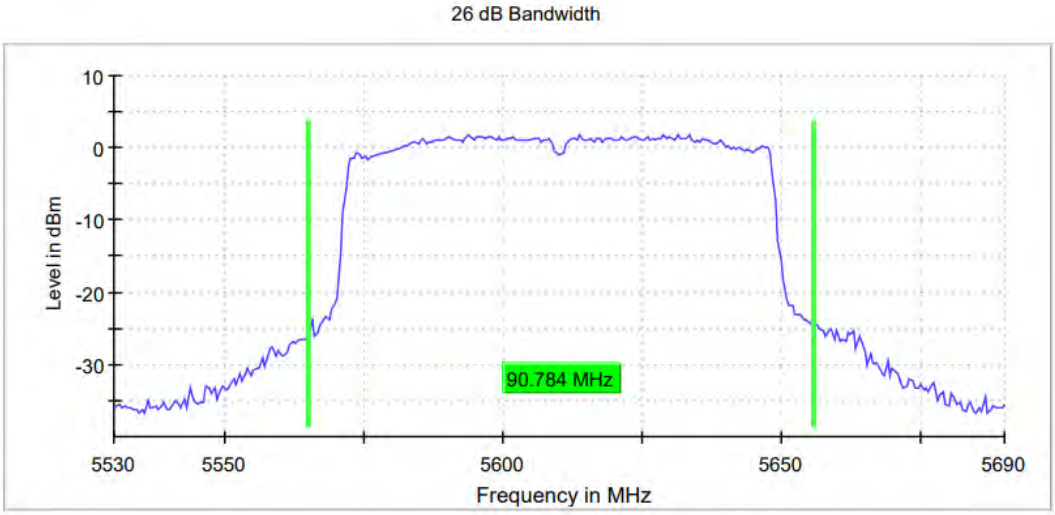
11AC80 _Ant0_5290



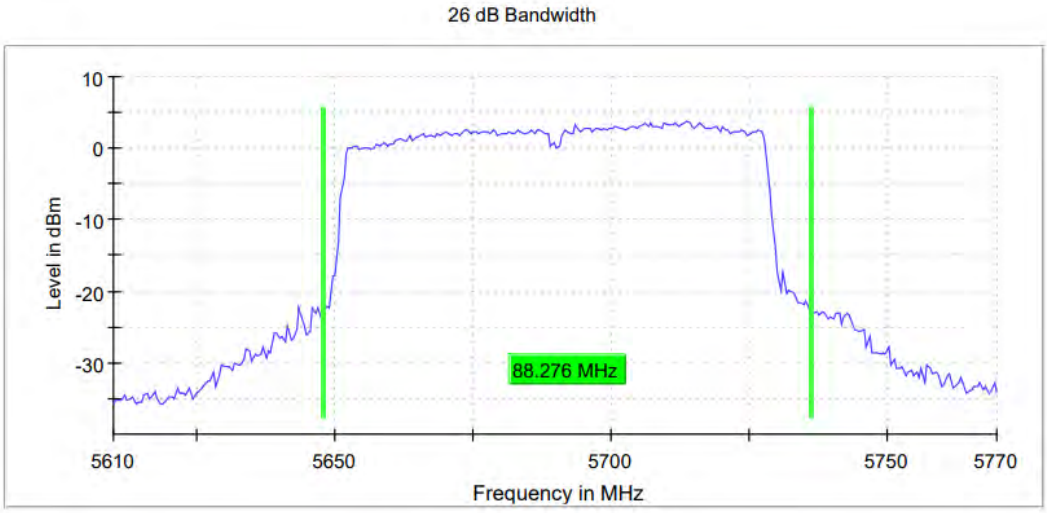
11AC80 _Ant0_5530



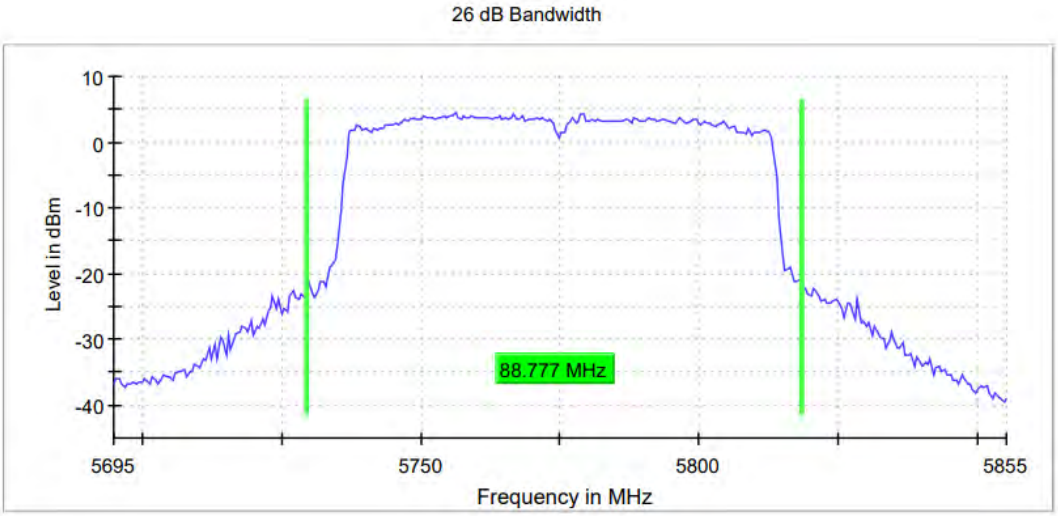
11AC80 _Ant0_5610



11AC80 _Ant0_5690



11AC80 _Ant0_5775



20M

RBW200 KHz

VBW 1 **MHz**

40M

RBW500 KHz

VBW 2 **MHz**

80M

RBW 1.000 **MHz**

VBW 3.000 **MHz**

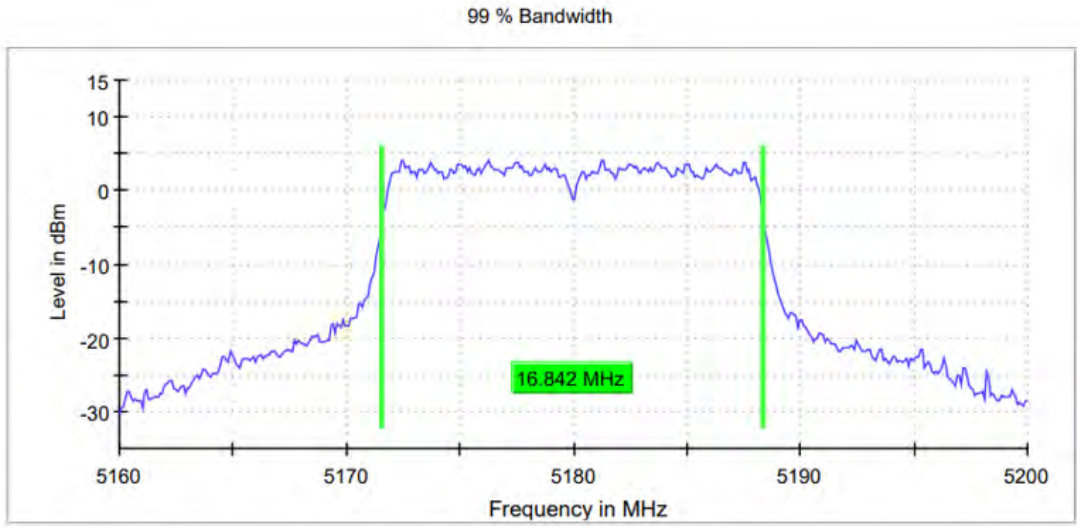
OCCUPIED CHANNEL BANDWIDTH

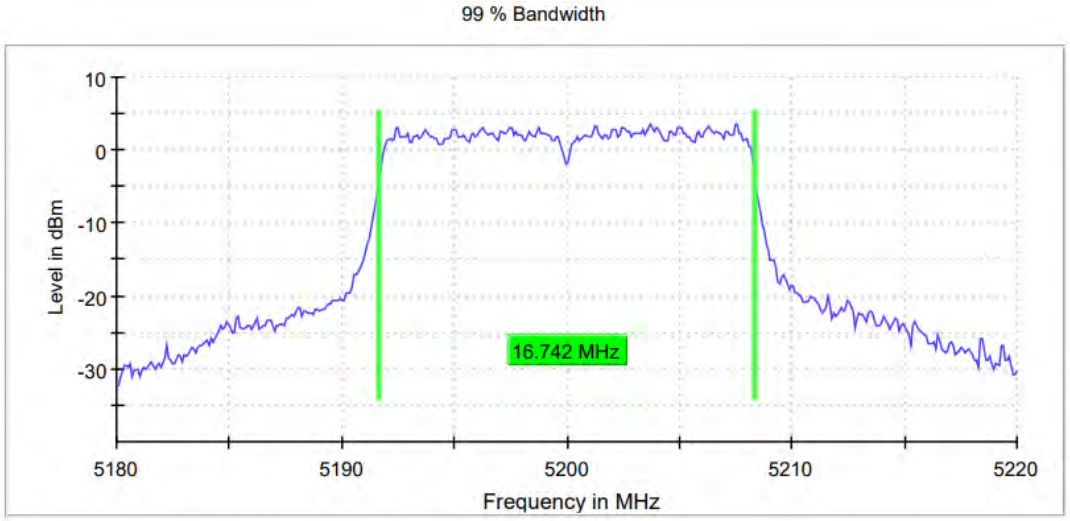
TEST RESULT

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5180	16.842	5171.529	5188.371	---	---
	Ant0	5200	16.742	5191.629	5208.371	---	---
	Ant0	5240	16.942	5231.429	5248.371	---	---
	Ant0	5260	17.343	5251.228	5268.571	---	---
	Ant0	5300	17.444	5291.429	5308.873	---	---
	Ant0	5320	17.243	5311.328	5328.571	---	---
	Ant0	5500	17.544	5491.128	5508.672		
	Ant0	5580	17.243	5571.429	5588.672		
	Ant0	5700	17.143	5691.328	5708.471		
	Ant0	5745	16.942	5736.529	5753.471	---	---
	Ant0	5785	16.942	5776.529	5793.471	---	---
	Ant0	5825	16.942	5816.529	5833.471	---	---
11AC20-MIMO	Ant0	5180	17.845	5171.128	5188.973		
	Ant0	5200	17.845	5191.128	5208.973		
	Ant0	5240	17.845	5231.028	5248.873		
	Ant0	5260	17.945	5251.028	5268.973		
	Ant0	5300	17.845	5291.128	5308.973		
	Ant0	5320	17.845	5311.028	5328.873		
	Ant0	5500	17.845	5491.028	5508.873		
	Ant0	5580	17.845	5571.128	5588.973		
	Ant0	5700	17.845	5691.128	5708.973		
	Ant0	5745	17.845	5736.028	5753.873		
	Ant0	5785	17.945	5776.028	5793.973		
	Ant0	5825	17.845	5816.028	5833.873		
11AC40-MIMO	Ant0	5190	36.865	5171.567	5208.432		
	Ant0	5230	36.865	5211.567	5248.432		
	Ant0	5270	37.116	5251.567	5288.683		
	Ant0	5310	36.865	5291.567	5328.432		
	Ant0	5510	36.865	5491.567	5528.432		
	Ant0	5550	36.865	5531.567	5568.432		
	Ant0	5670	36.614	5651.818	5688.432		
	Ant0	5755	36.865	5736.567	5773.432		

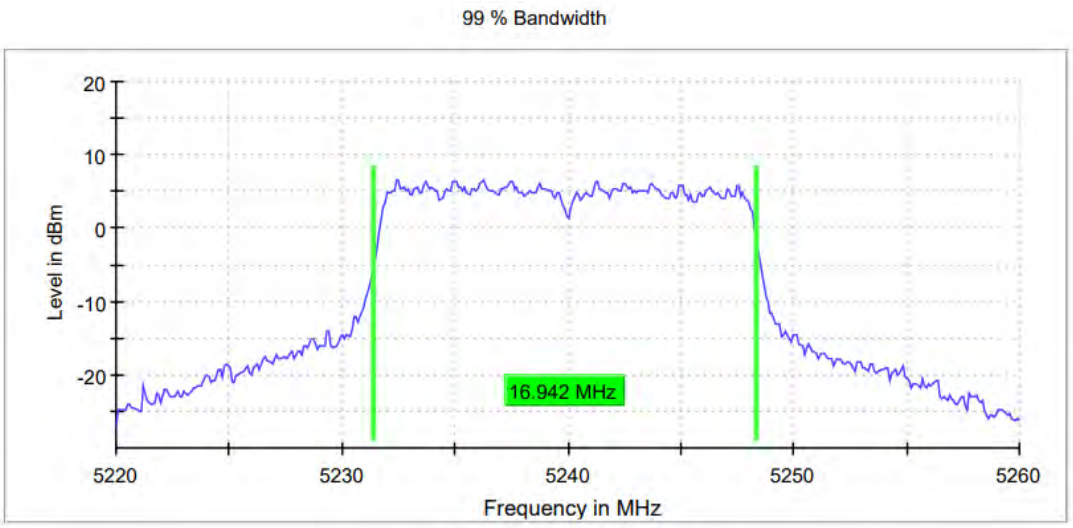
	Ant0	5795	36.865	5776.567	5813.432		
11AC80-MIMO	Ant0	5210	75.737	5172.132	5247.869		
	Ant0	5290	76.238	5252.132	5328.370		
	Ant0	5530	76.238	5492.132	5568.370		
	Ant0	5610	75.737	5572.132	5647.869		
	Ant0	5690	76.238	5652.132	5728.370		
	Ant0	5775	75.737	5737.132	5812.869		

TEST GRAPHS

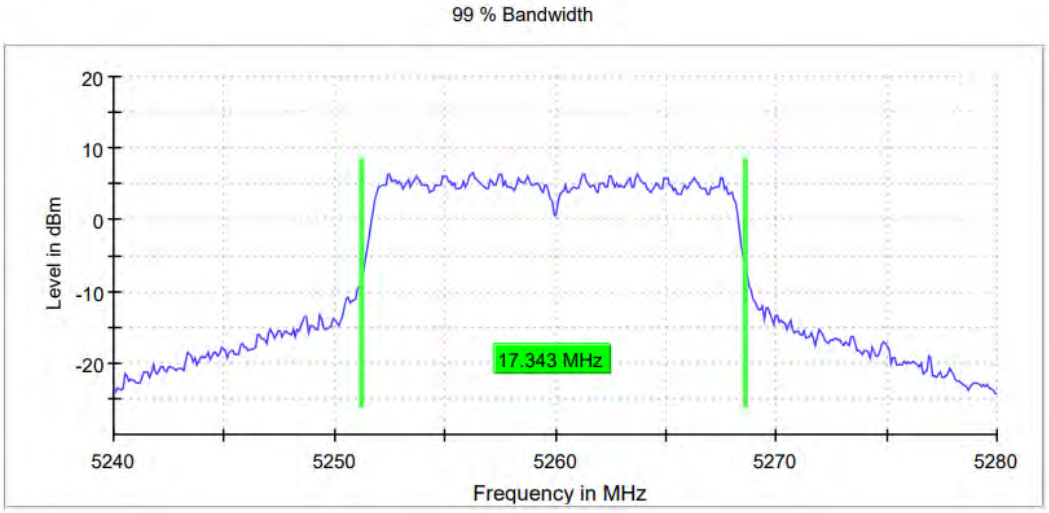
11A_Ant0_5180


11A _Ant0_5200


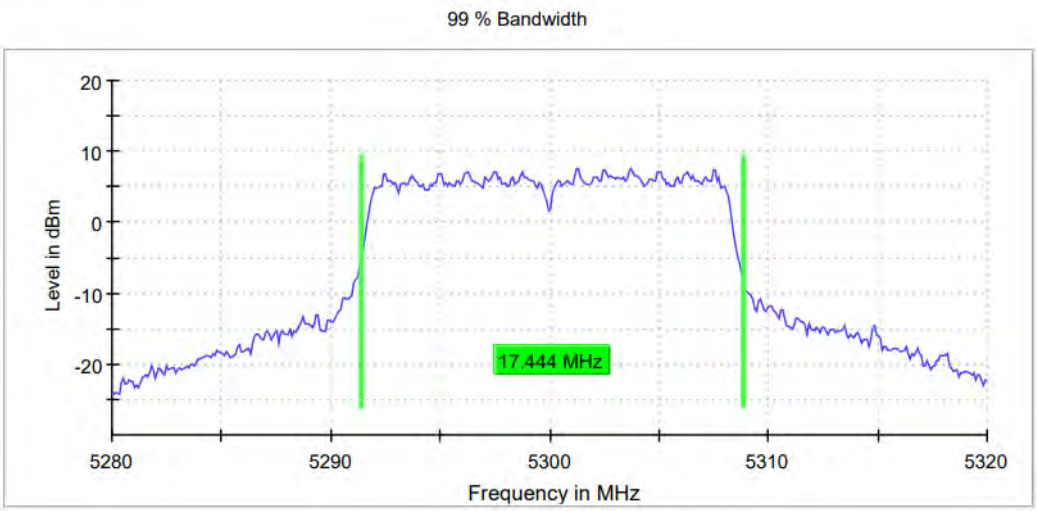
11A _Ant0_5240



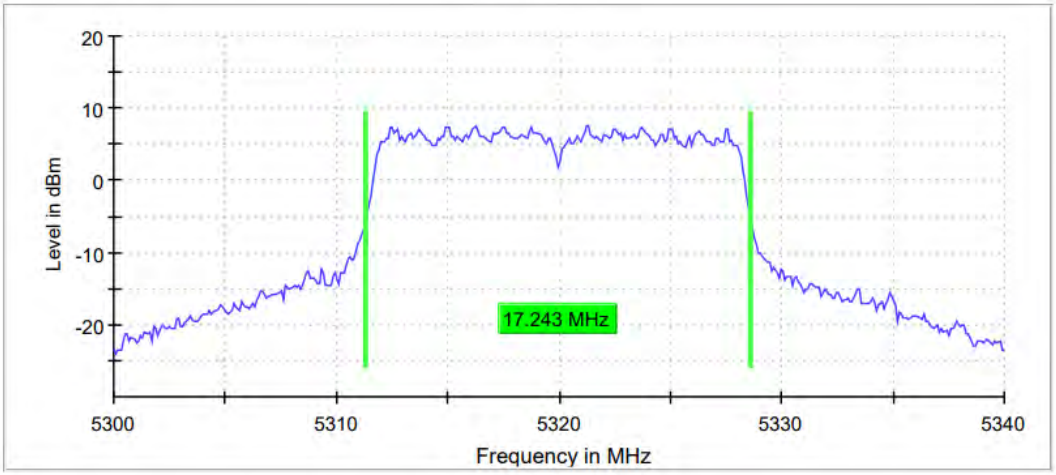
11A _Ant0_5260



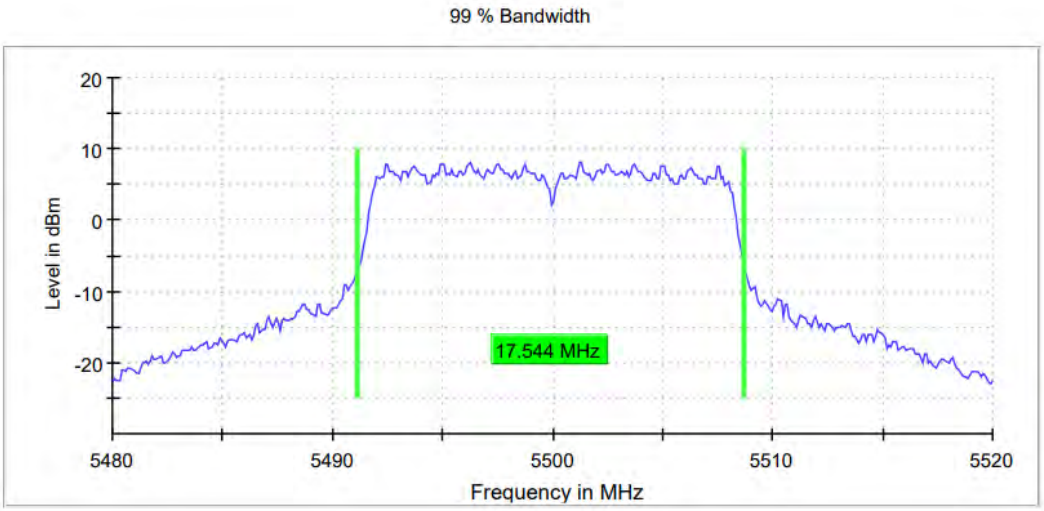
11A _Ant0_5300



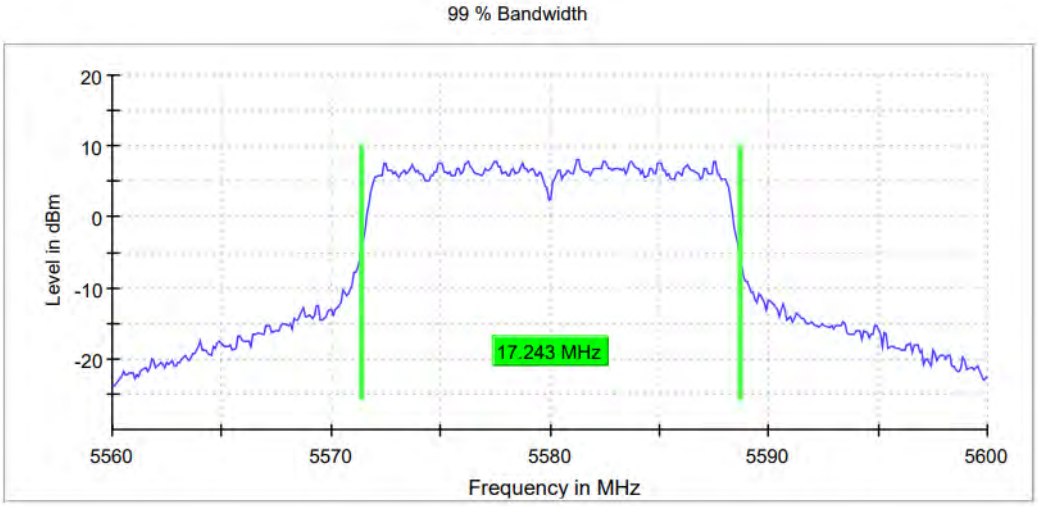
11A _Ant0_5320



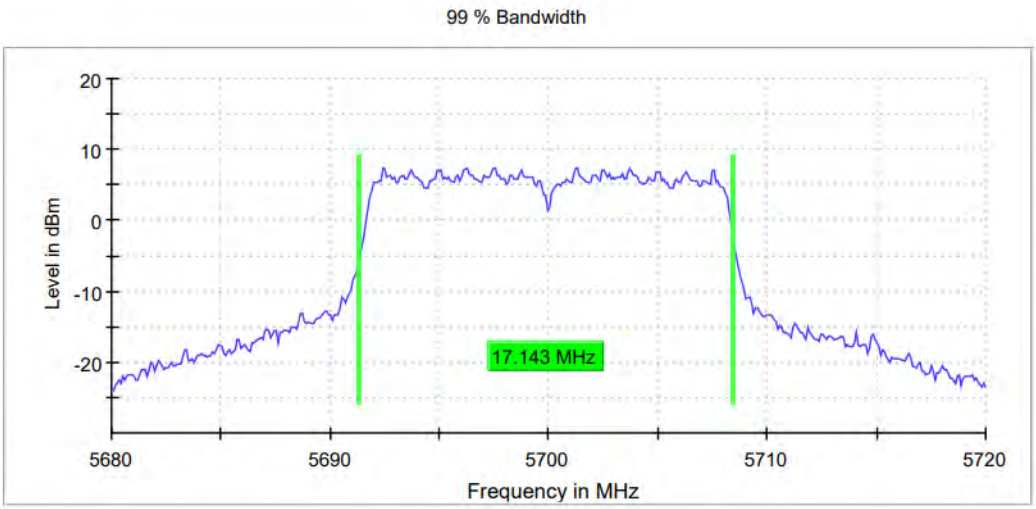
11A _Ant0_5500



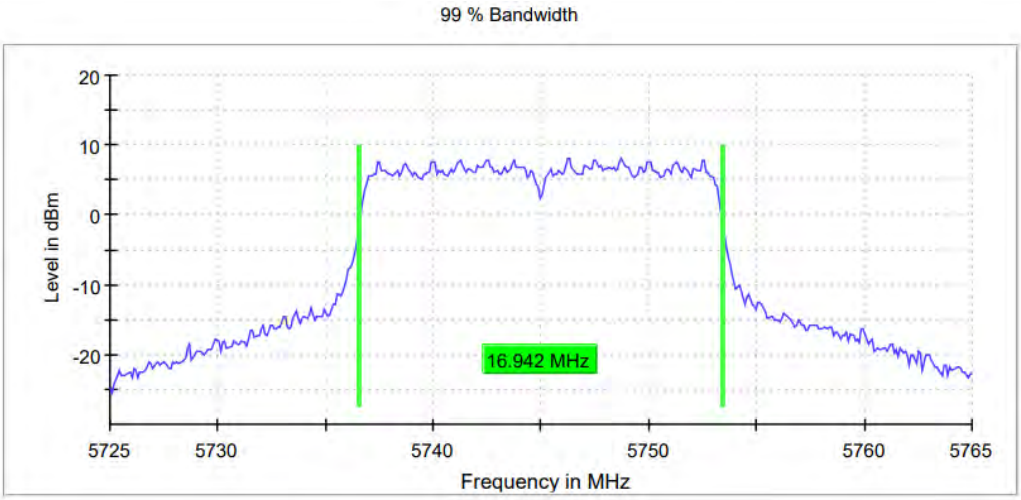
11A _Ant0_5580



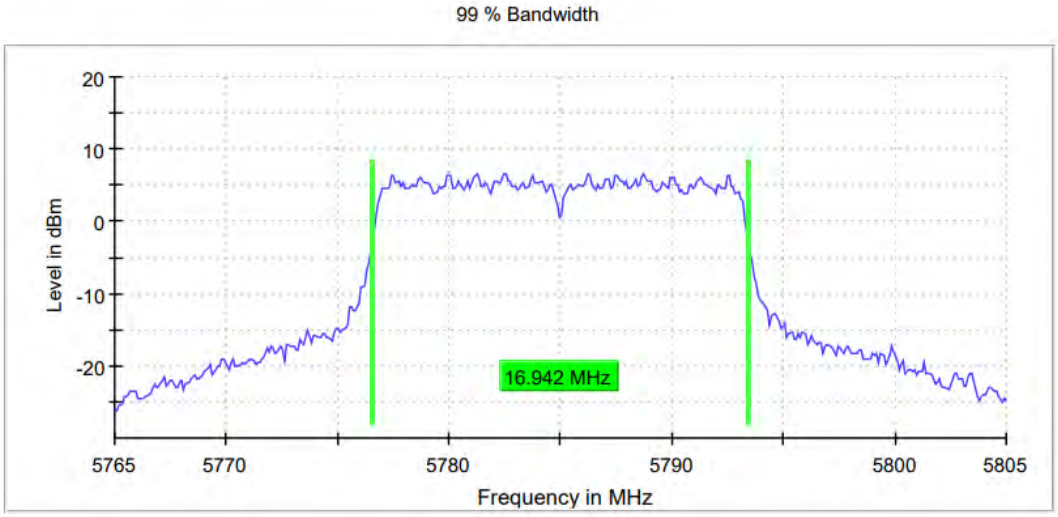
11A _Ant0_5700



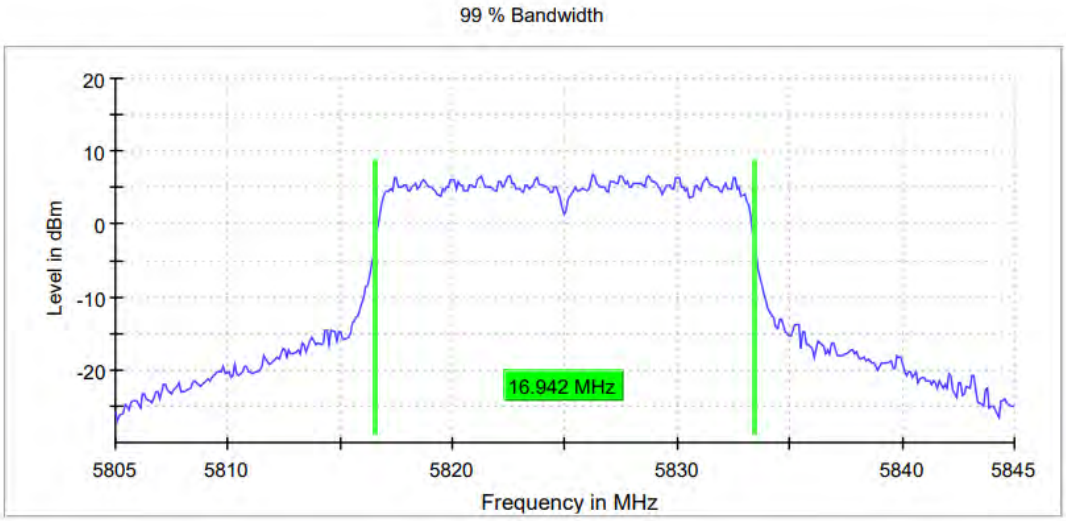
11A _Ant0_5745



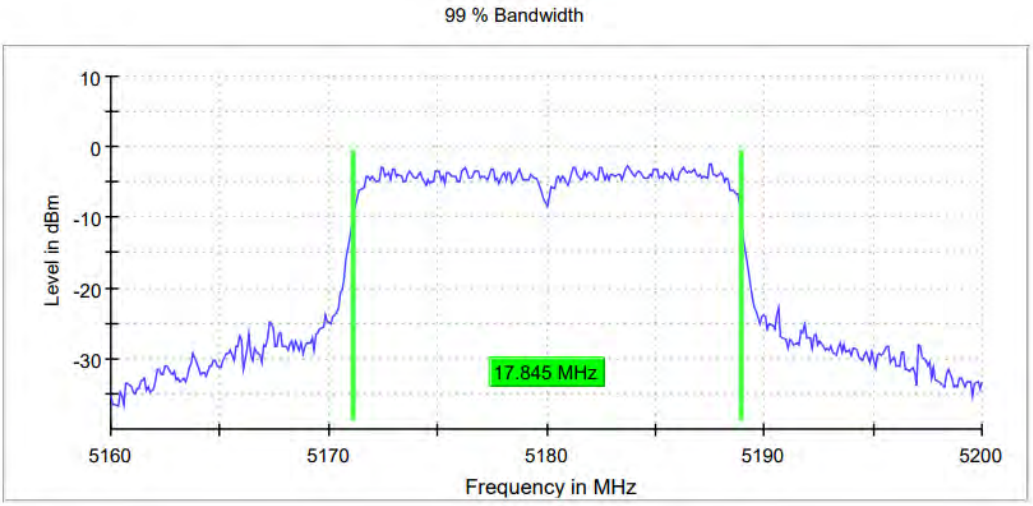
11A _Ant0_5785



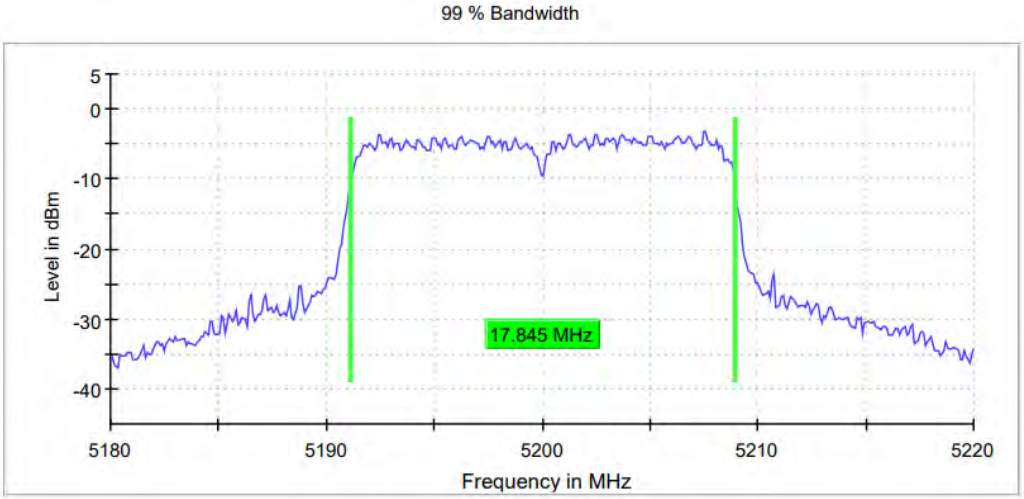
11A_Ant0_5825



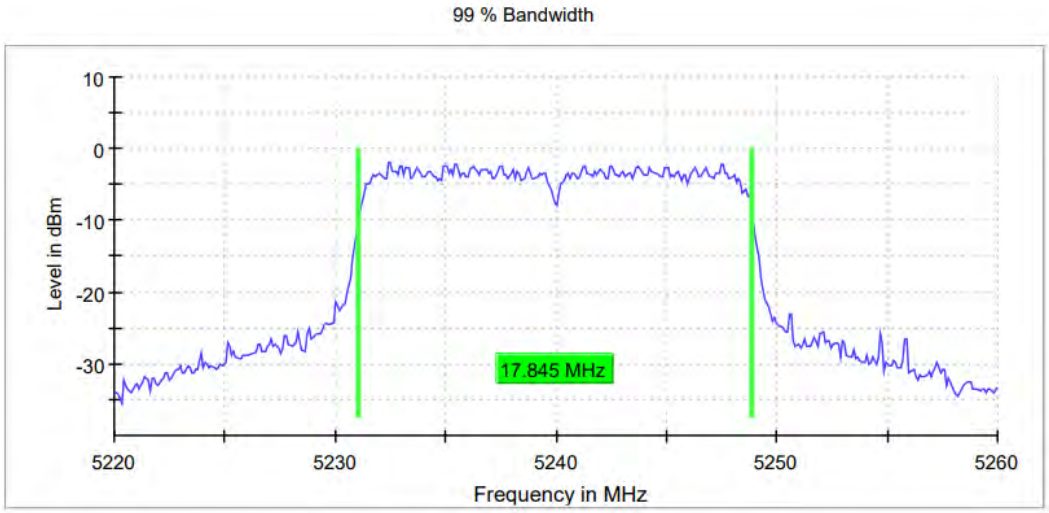
11AC20_Ant0_5180



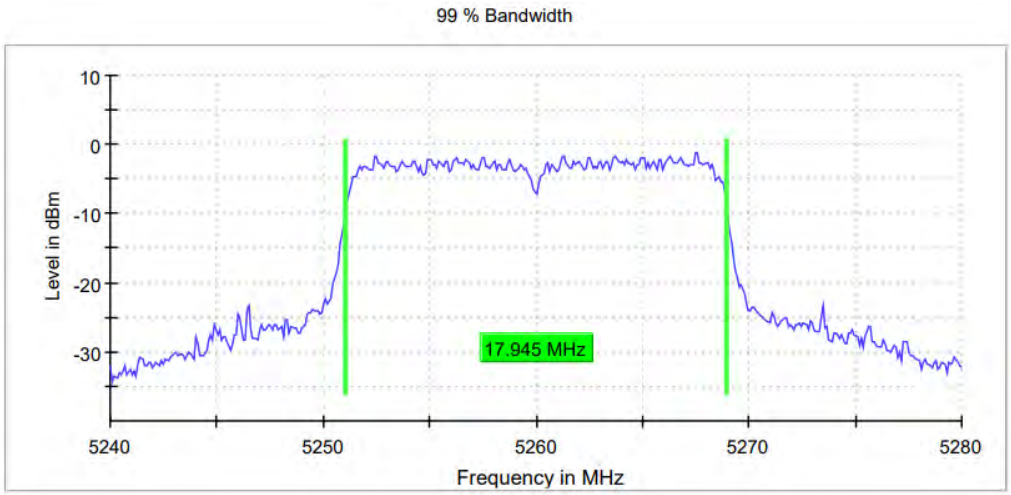
11AC20 _Ant0_5200



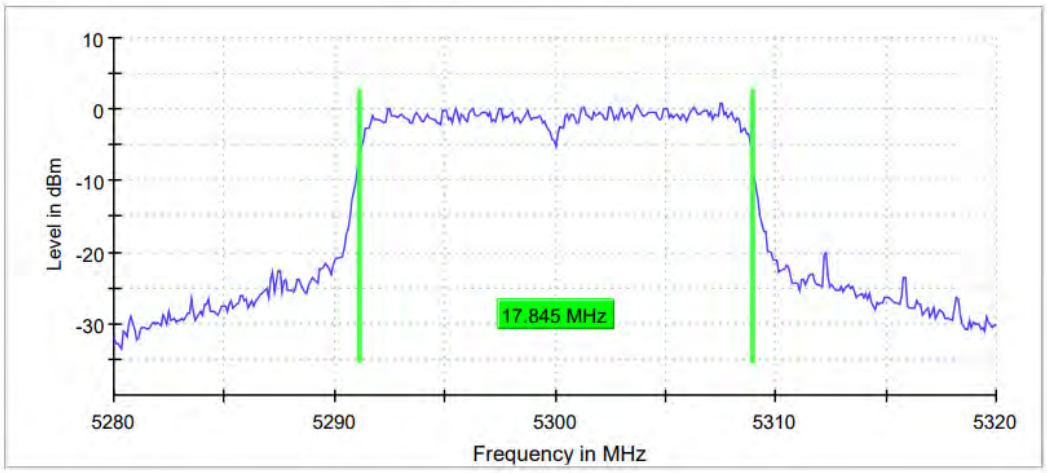
11AC20 _Ant0_5240

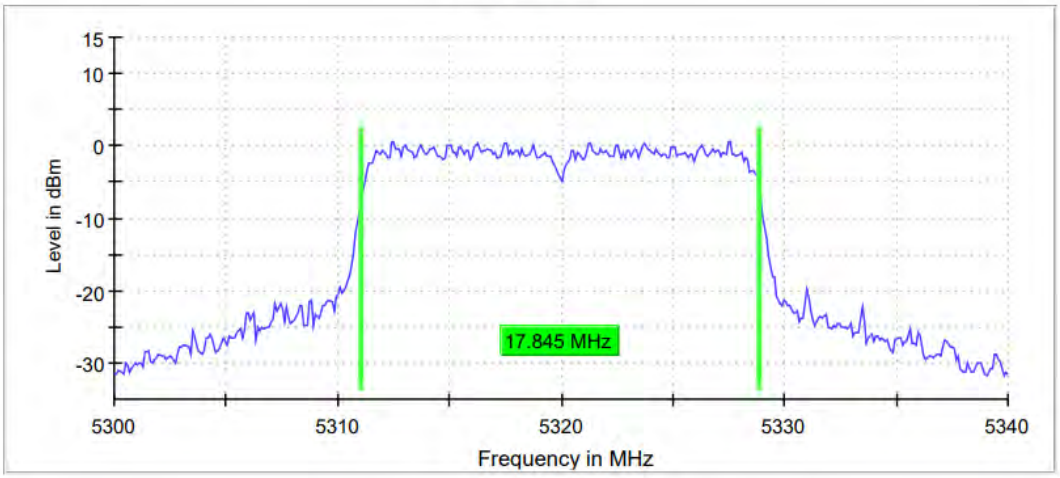
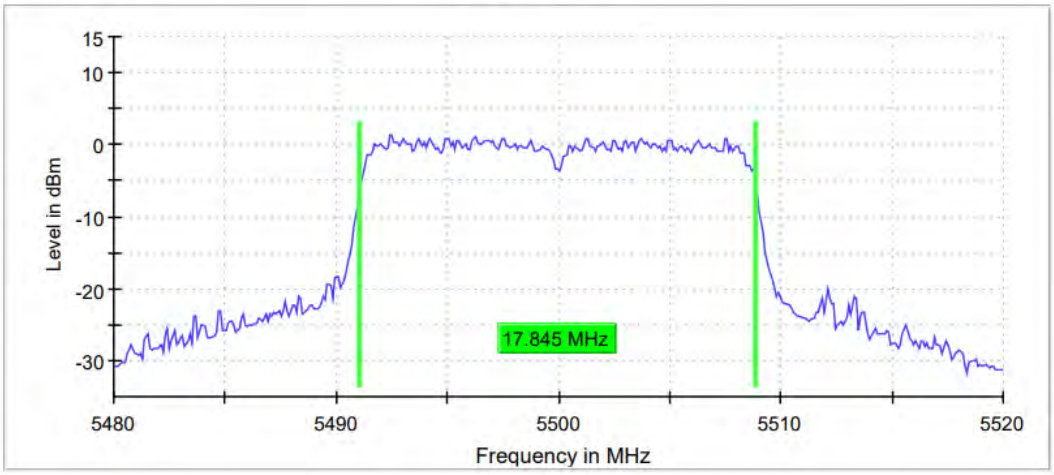


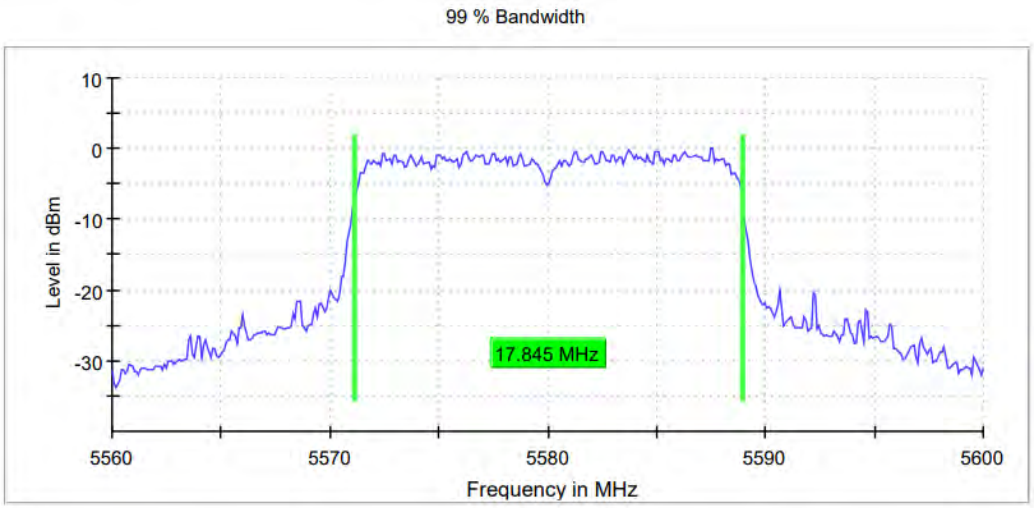
11AC20 _Ant0_5260



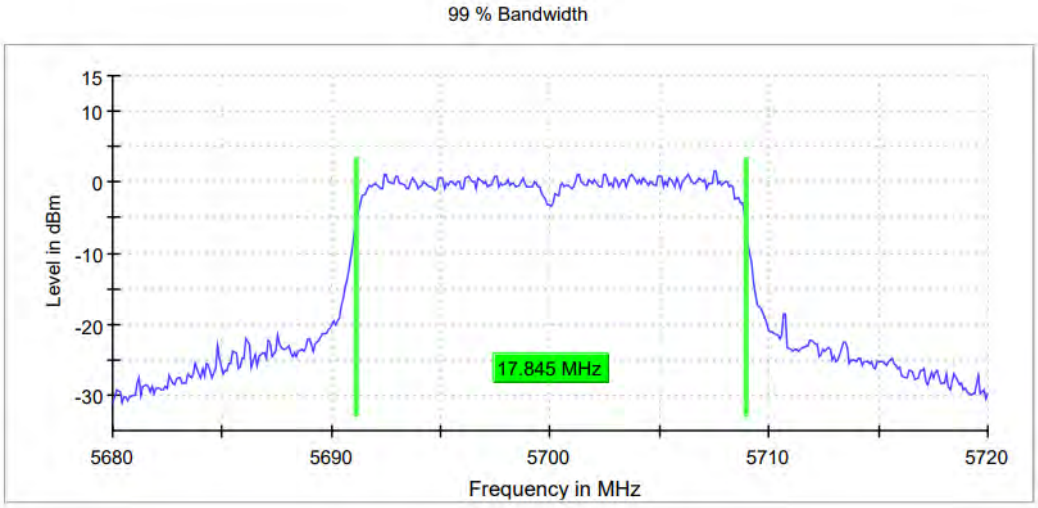
11AC20_Ant0_5300



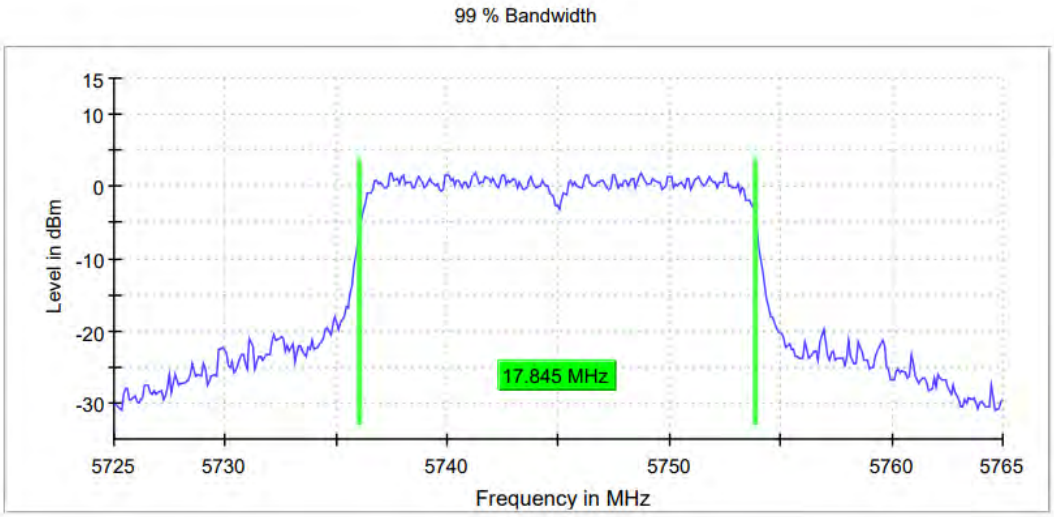
11AC20 _Ant0_5320
99 % Bandwidth 
11AC20 _Ant0_5500
99 % Bandwidth 
11AC20_Ant0_5580



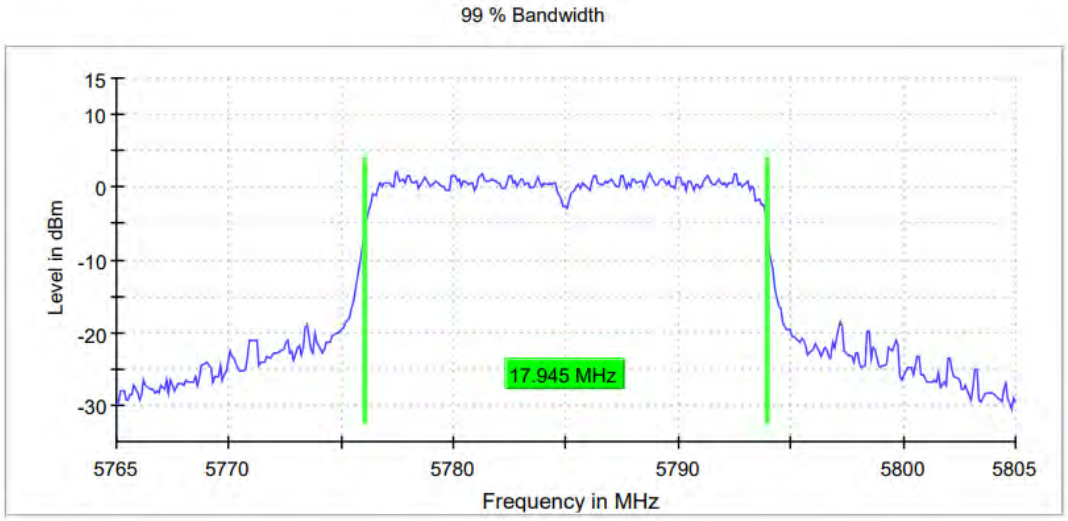
11AC20_Ant0_5700



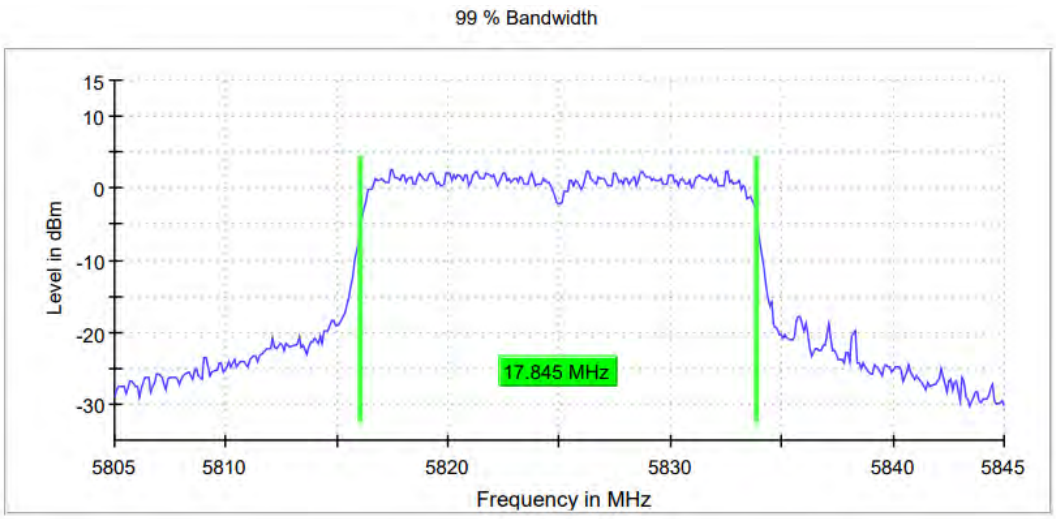
11AC20 _Ant0_5745



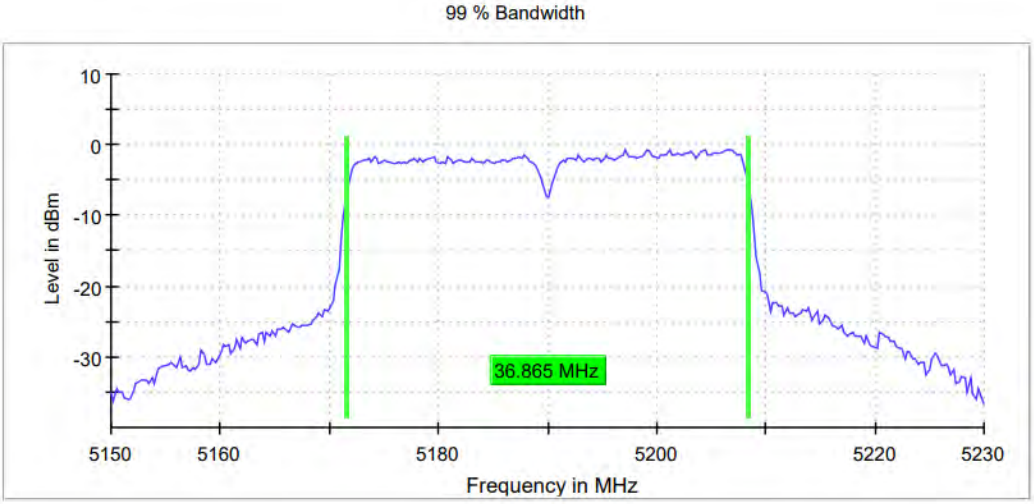
11AC20 _Ant0_5785



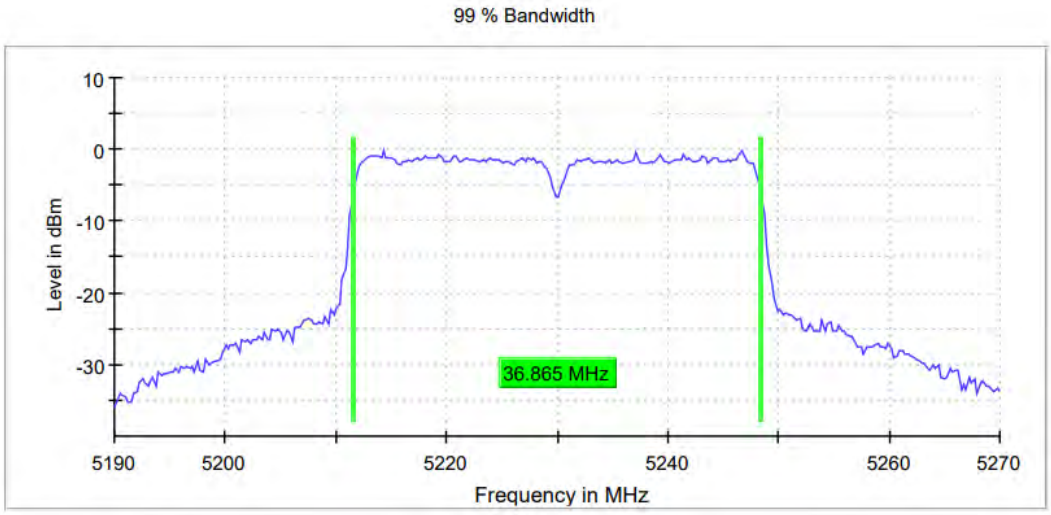
11AC20 _Ant0_5825



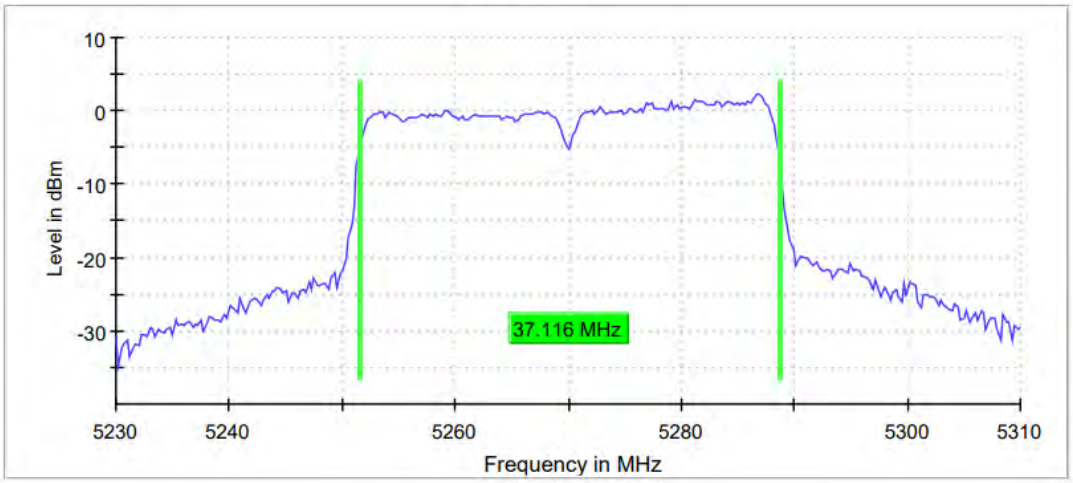
11AC40 _Ant0_5190



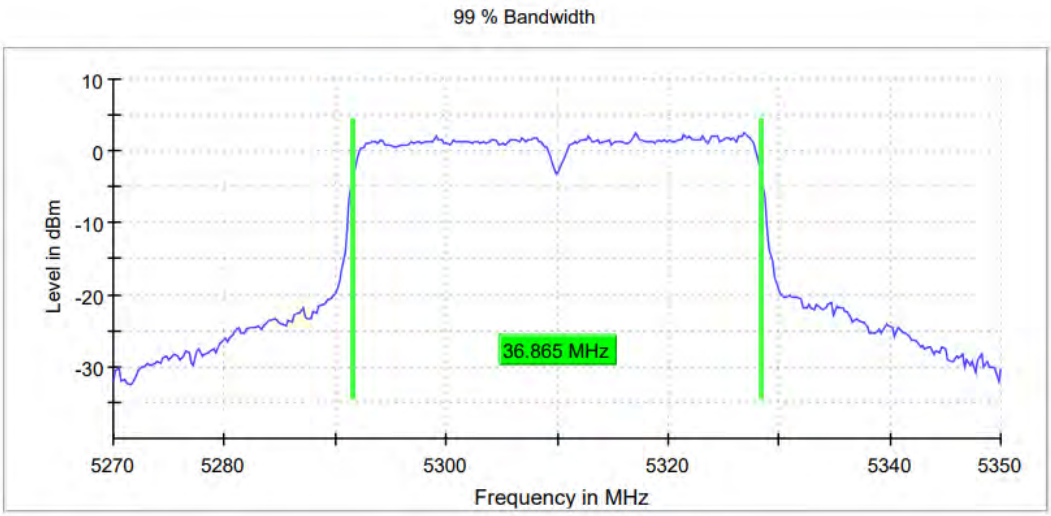
11AC40 _Ant0_5230



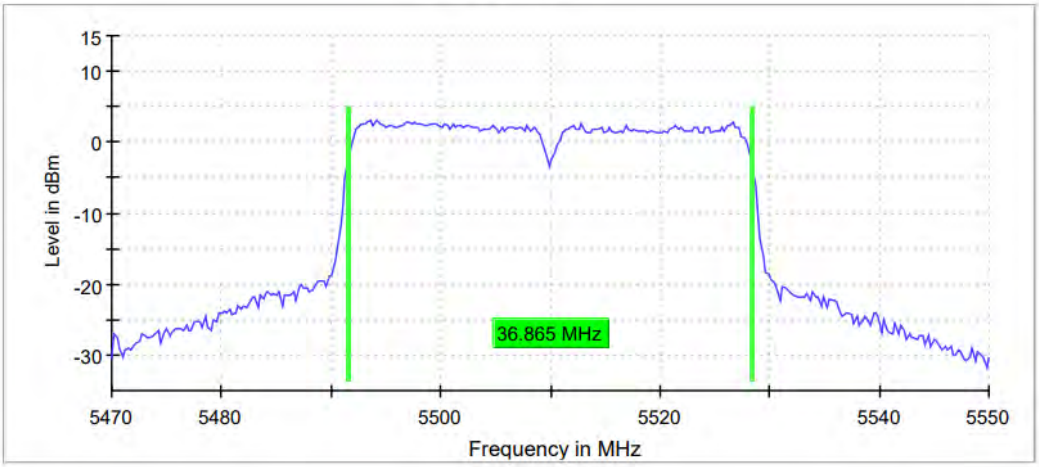
11AC40 _Ant0_5270



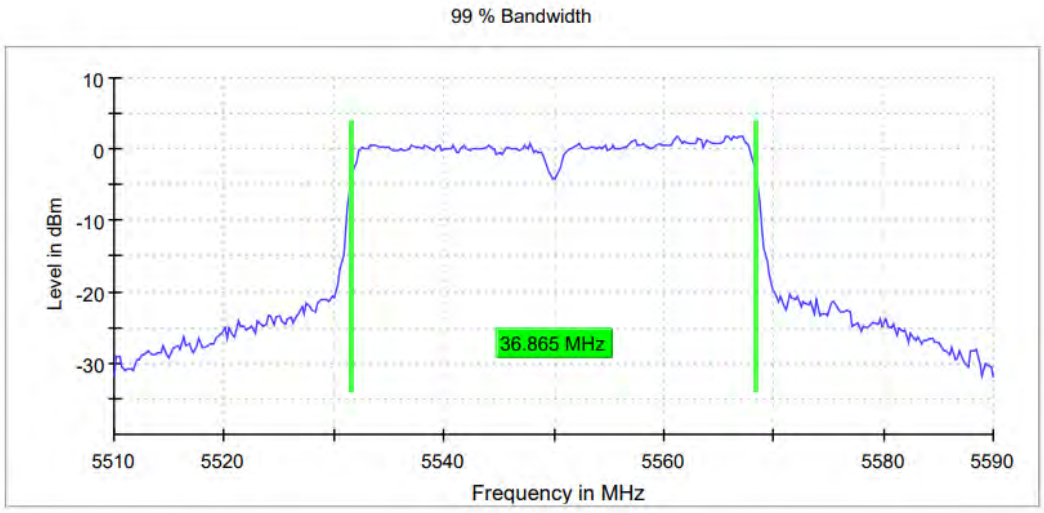
11AC40 _Ant0_5310



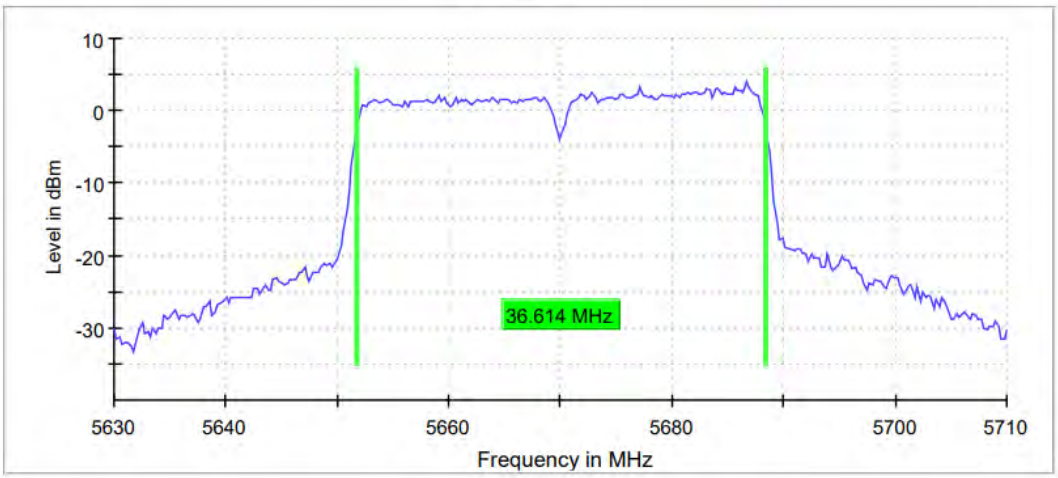
11AC40 _Ant0_5510



11AC40 _Ant0_5550



11AC40 _Ant0_5670



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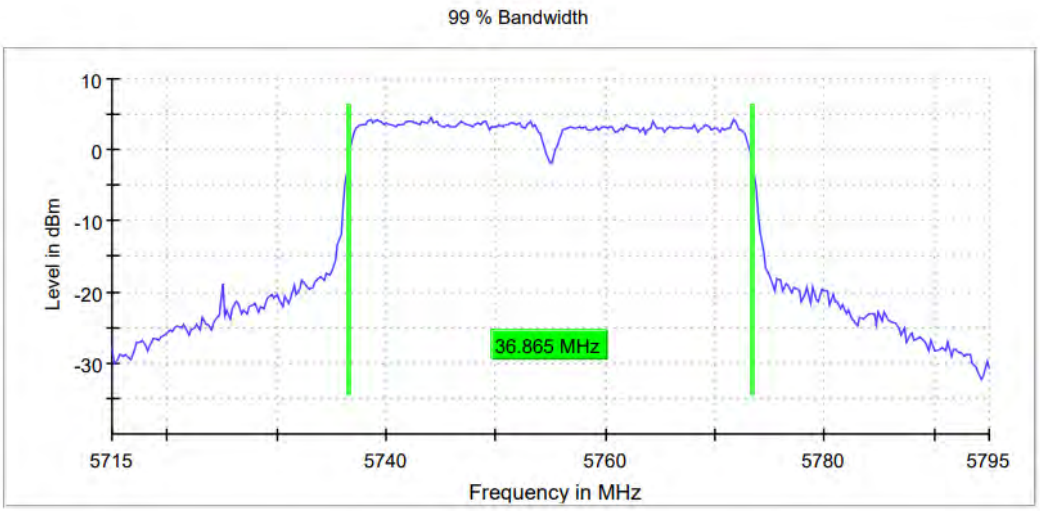
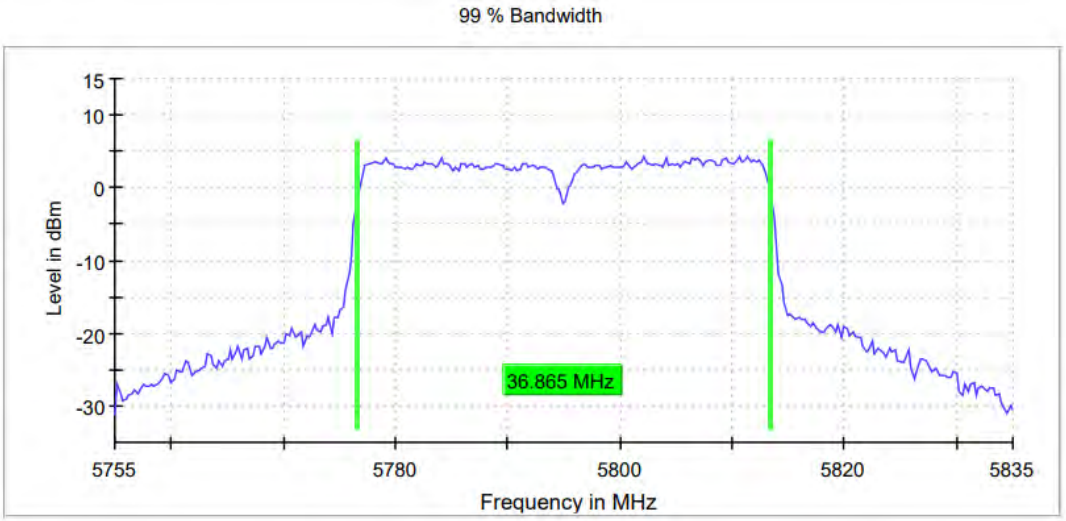
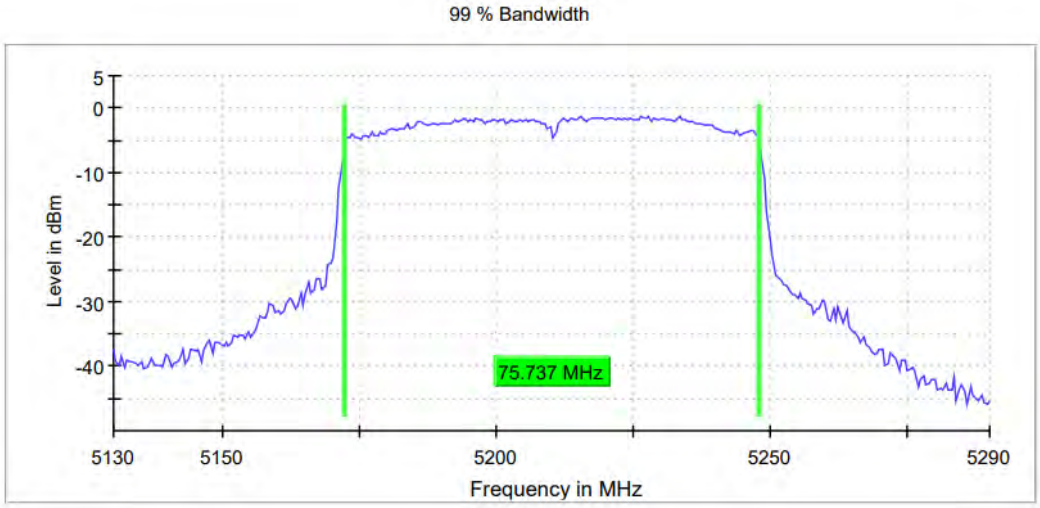


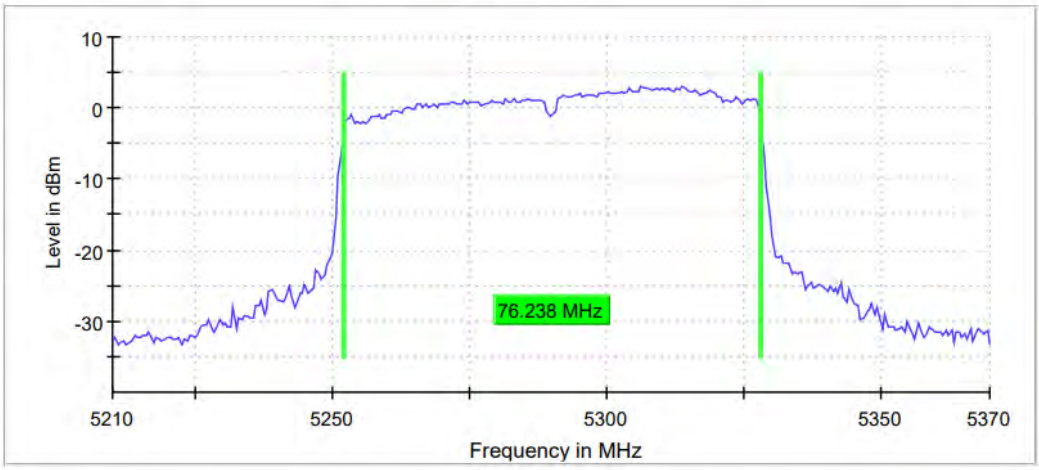
11AC40 _Ant0_5795



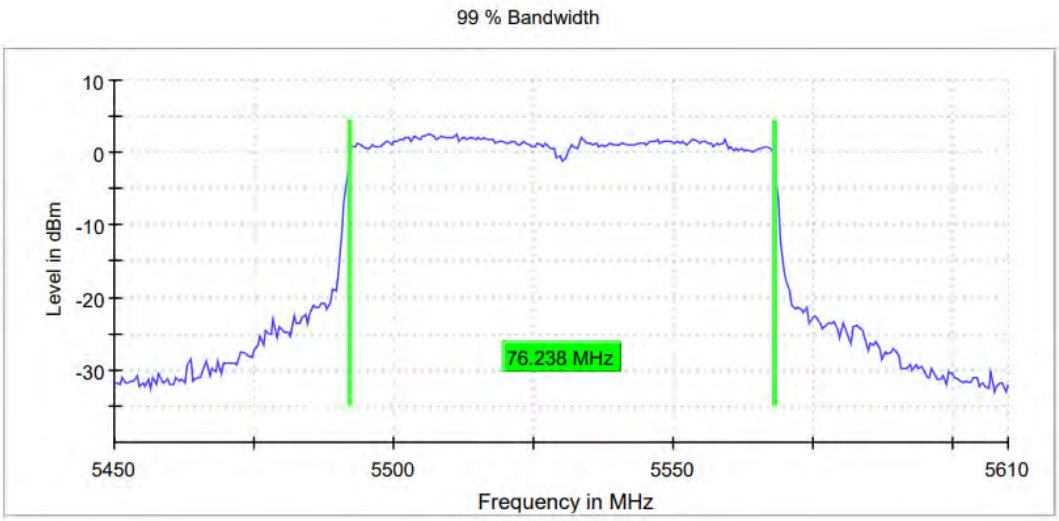
11AC80 _Ant0_5210



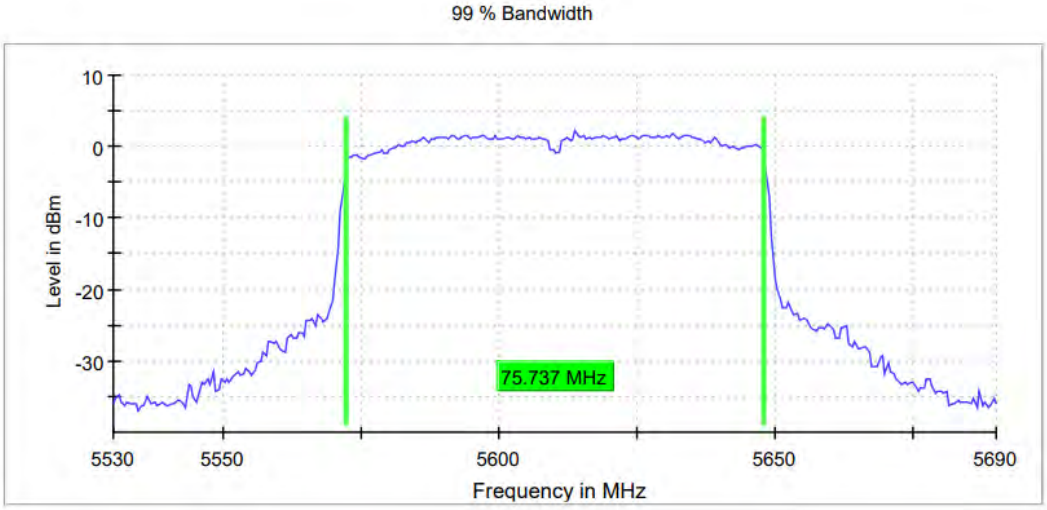
11AC80 _Ant0_5290



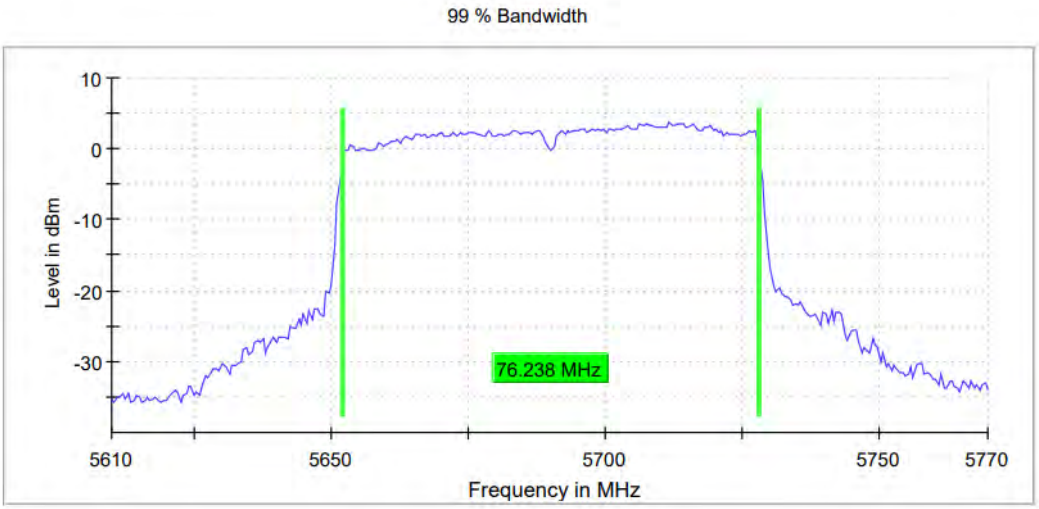
11AC80 _Ant0_5530



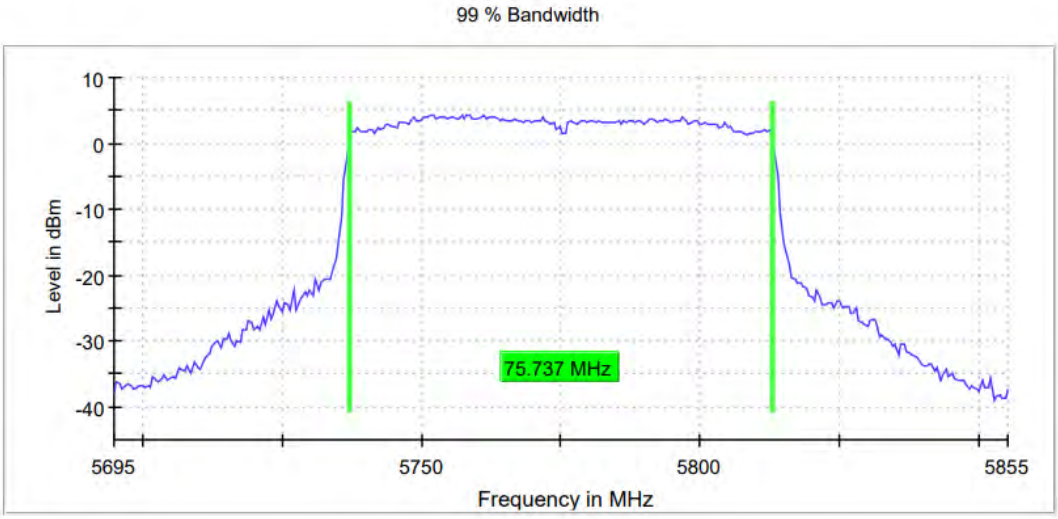
11AC80 _Ant0_5610



11AC80 _Ant0_5690



11AC80 _Ant0_5775



20M

RBW 200.000 kHz

VBW 1.000 MHz

40M

RBW 500.000 kHz

VBW 2.000 MHz

80M

RBW 1.000 MHz

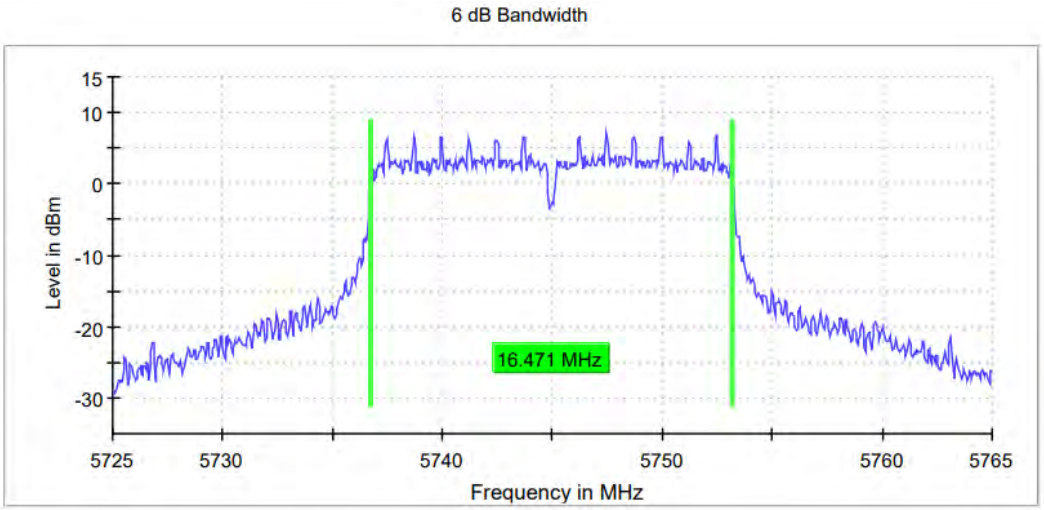
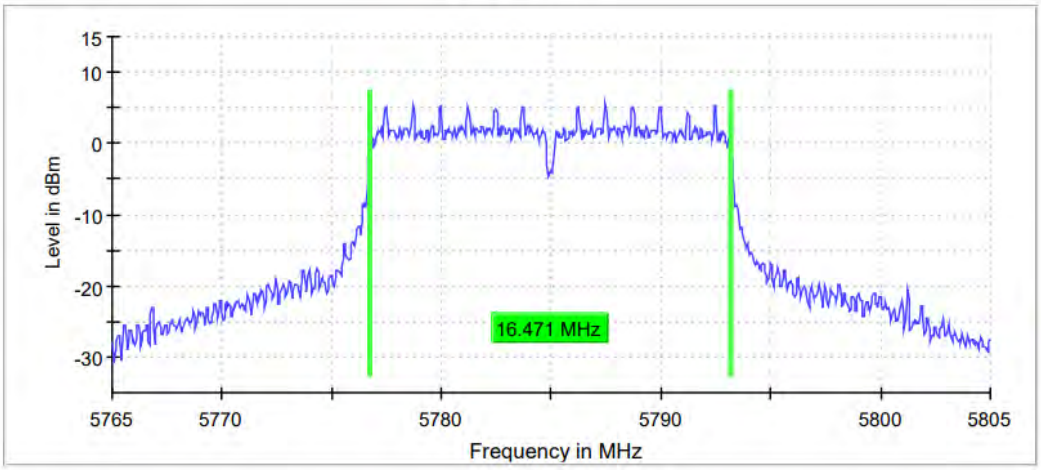
VBW 3.000 MHz

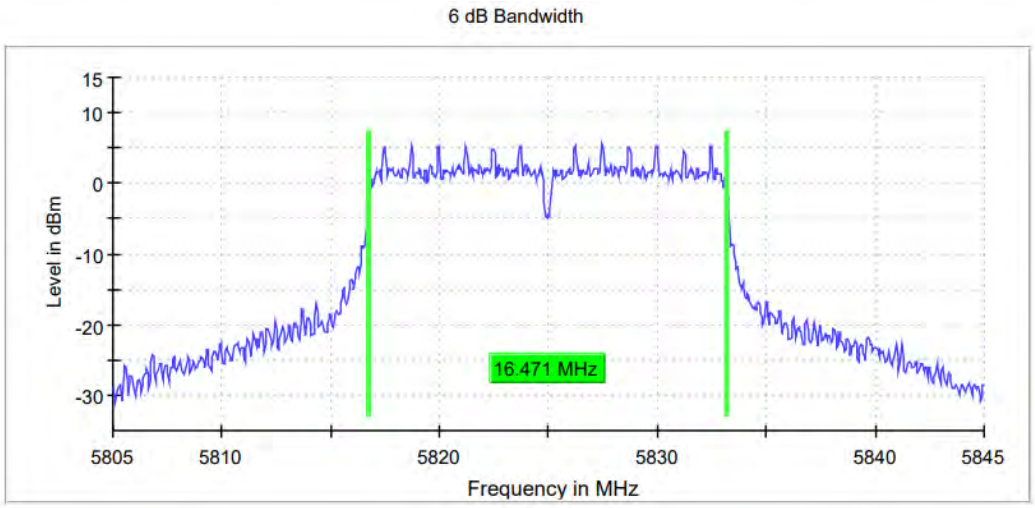
MIN EMISSION BANDWIDTH

TEST RESULT B4

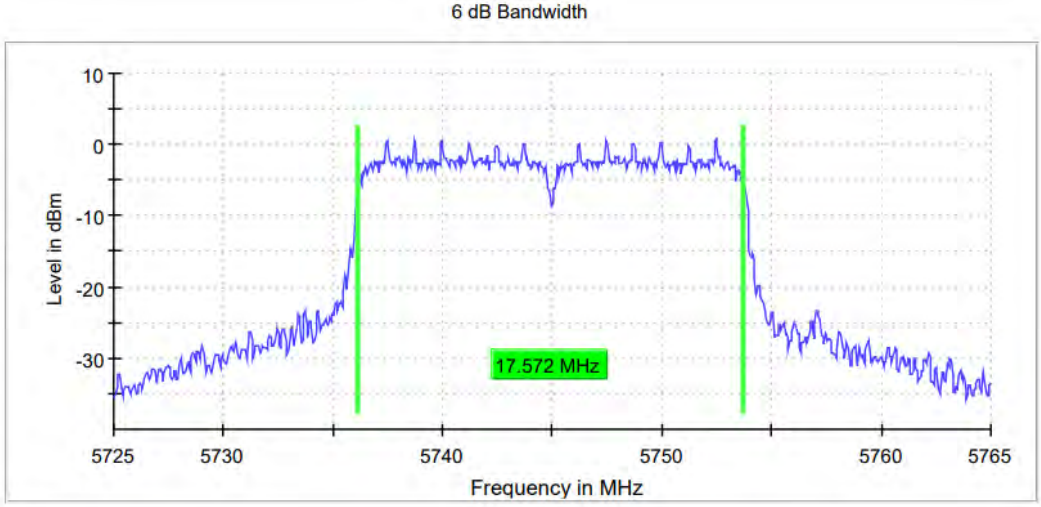
TestMode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant0	5745	16.471	5736.715	5753.186	0.5	PASS
	Ant0	5785	16.471	5776.715	5793.186	0.5	PASS
	Ant0	5825	16.471	5816.715	5833.186	0.5	PASS
11AC20-MIMO	Ant0	5745	17.572	5736.114	5753.686	0.5	PASS
	Ant0	5785	17.672	5776.114	5793.786	0.5	PASS
	Ant0	5825	17.672	5816.114	5833.786	0.5	PASS
11AC40-MIMO	Ant0	5755	36.423	5736.714	5773.137	0.5	PASS
	Ant0	5795	36.573	5776.714	5813.287	0.5	PASS
11AC80-MIMO	Ant0	5775	75.724	5737.013	5812.737	0.5	PASS

TEST GRAPHS B4

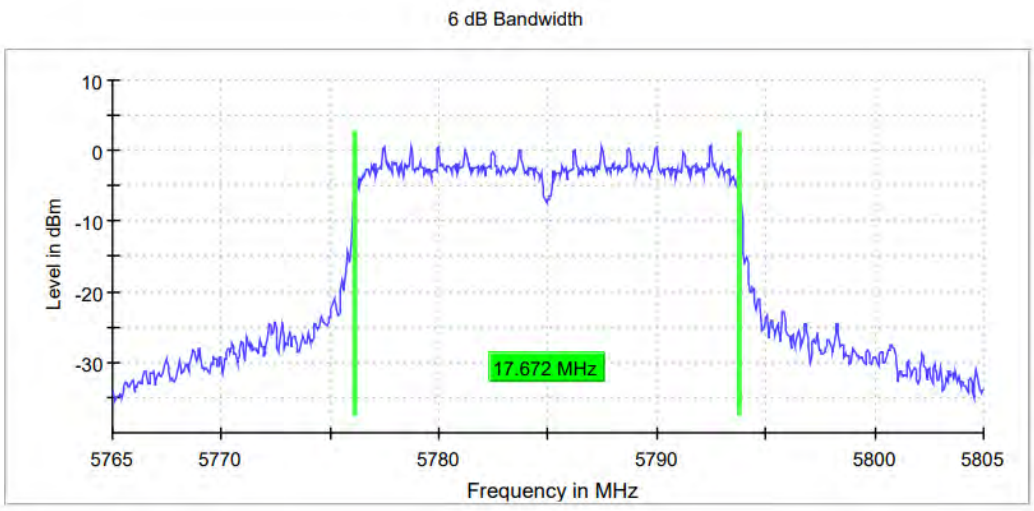
11A _Ant0_5745

11A _Ant0_5785

11A _Ant0_5825



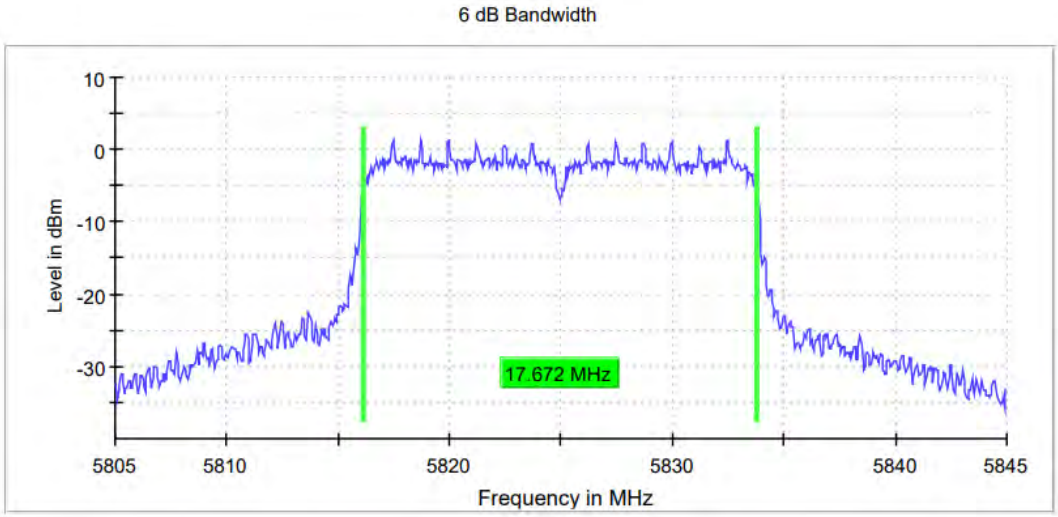
11AC20 _Ant0_5745



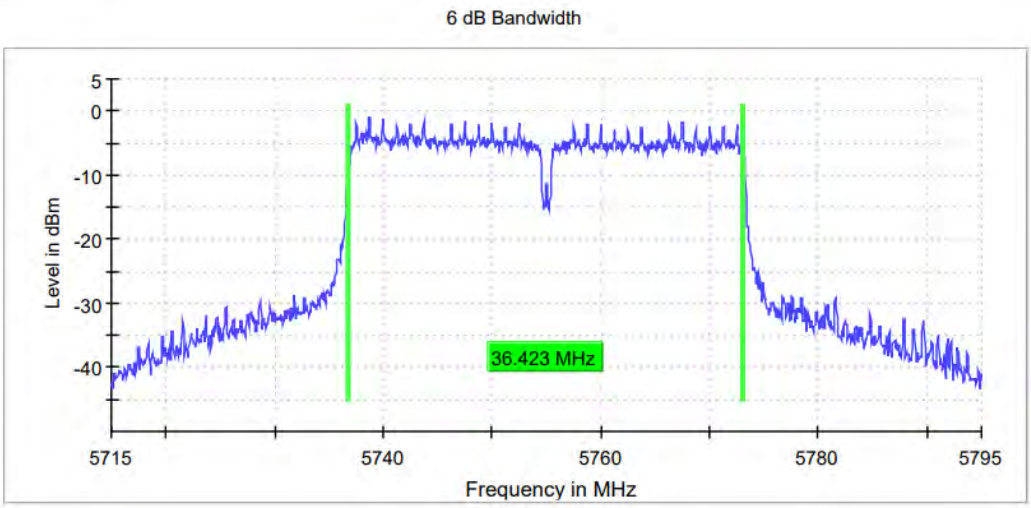
11AC20_Ant0_5785



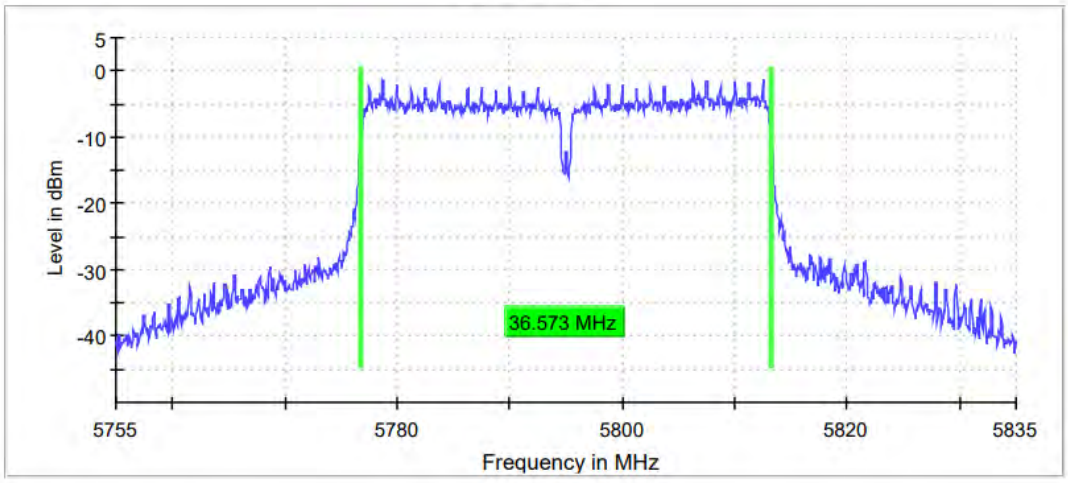
11AC20_Ant1_5825



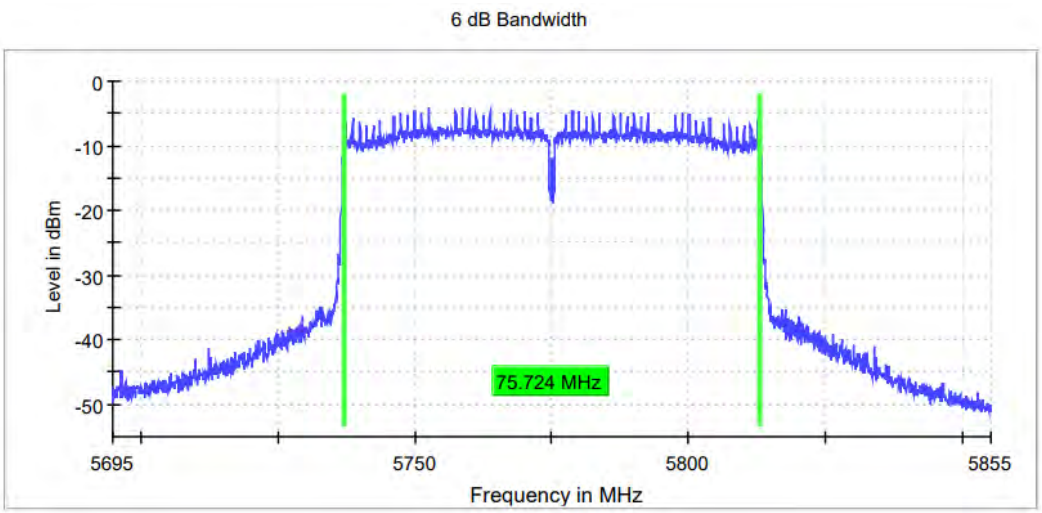
11AC40_Ant0_5755



11AC40_Ant0_5795



11AC80_Ant0_5775



20M

RBW 100.000 kHz

VBW 300.000 kHz

40M

RBW 100.000 kHz

VBW 300.000 kHz

80M

RBW 100.000 kHz

VBW 300.000 kHz

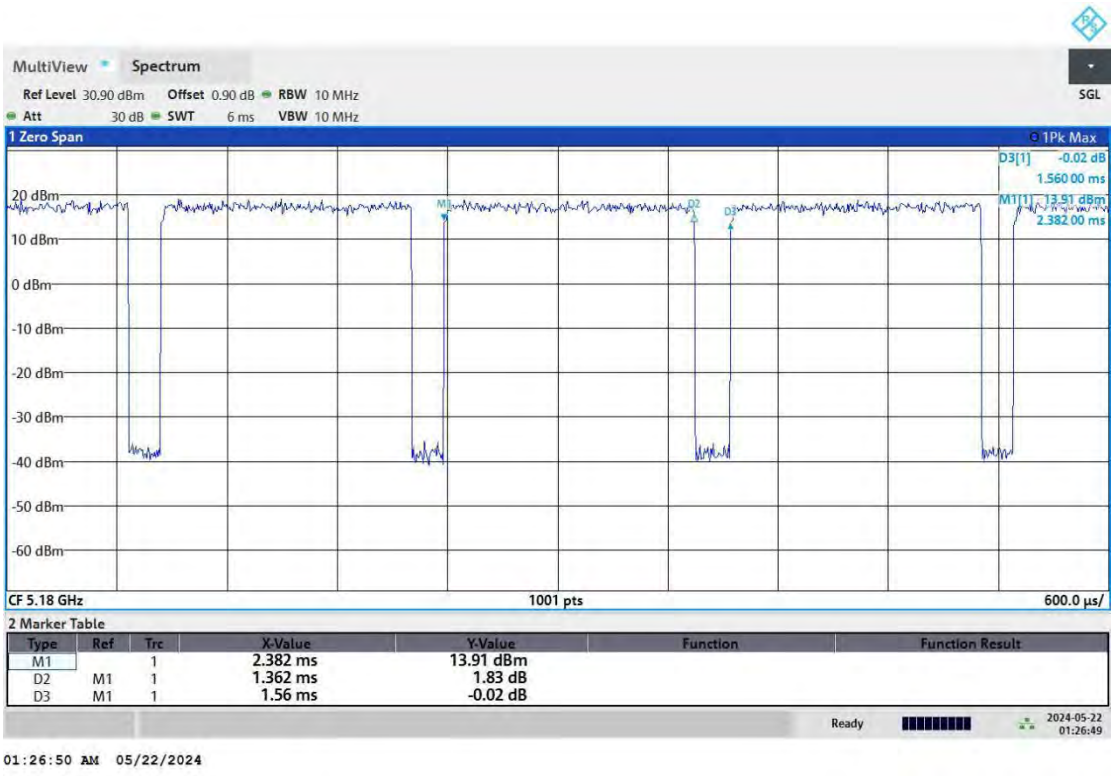
DUTY CYCLE

TEST RESULT

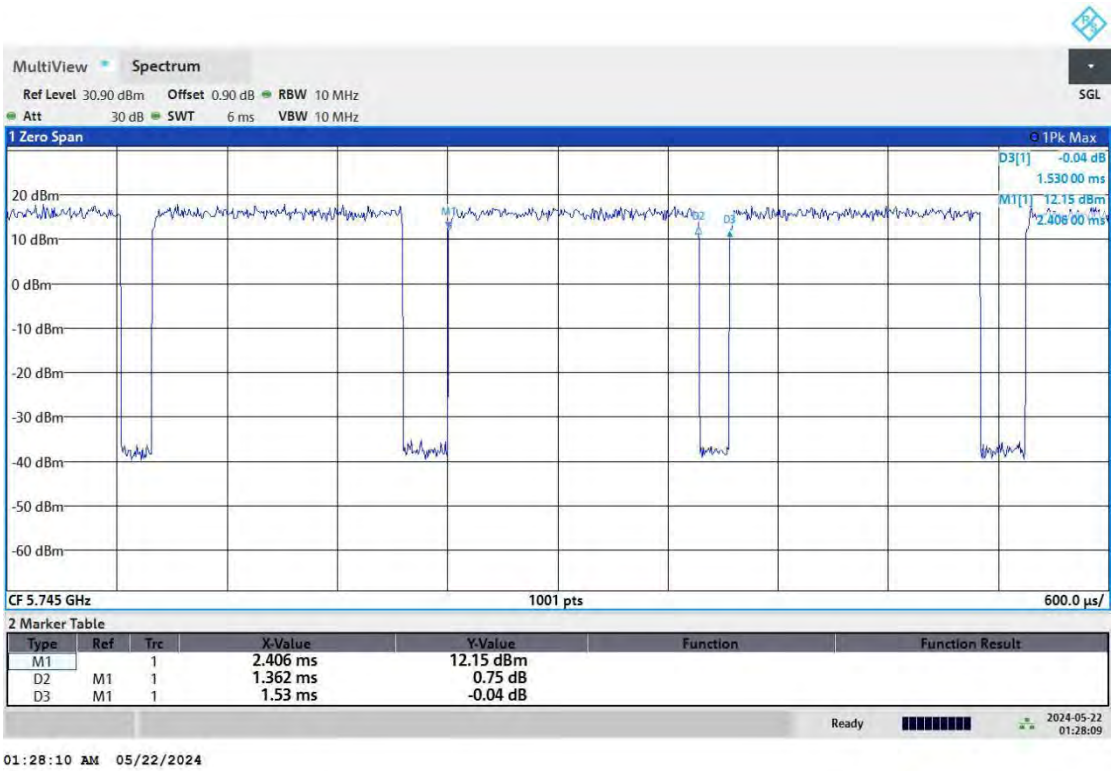
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	dutycycle factor
11A	Ant0	5180	1.3620	1.5600	87.31%	0.59
	Ant0	5745	1.3620	1.5300	89.02%	0.51
11N20SISO	Ant0	5180	1.1500	1.3200	87.12%	0.60
	Ant0	5745	1.1470	1.3200	86.89%	0.61
11AC20SISO	Ant0	5180	1.1615	1.3765	84.38%	0.74
	Ant0	5745	1.1565	1.3165	87.85%	0.56
11N40SISO	Ant0	5190	1.1500	1.3200	77.15%	1.13
	Ant0	5755	1.1470	1.3200	77.07%	1.13
11AC40SISO	Ant0	5190	0.5835	0.7545	77.34%	1.12
	Ant0	5755	0.5805	0.7515	77.25%	1.12
11AC80SISO	Ant0	5210	0.2881	0.4683	61.52%	2.11
	Ant0	5775	0.2898	0.4700	61.66%	2.10

Test Graphs

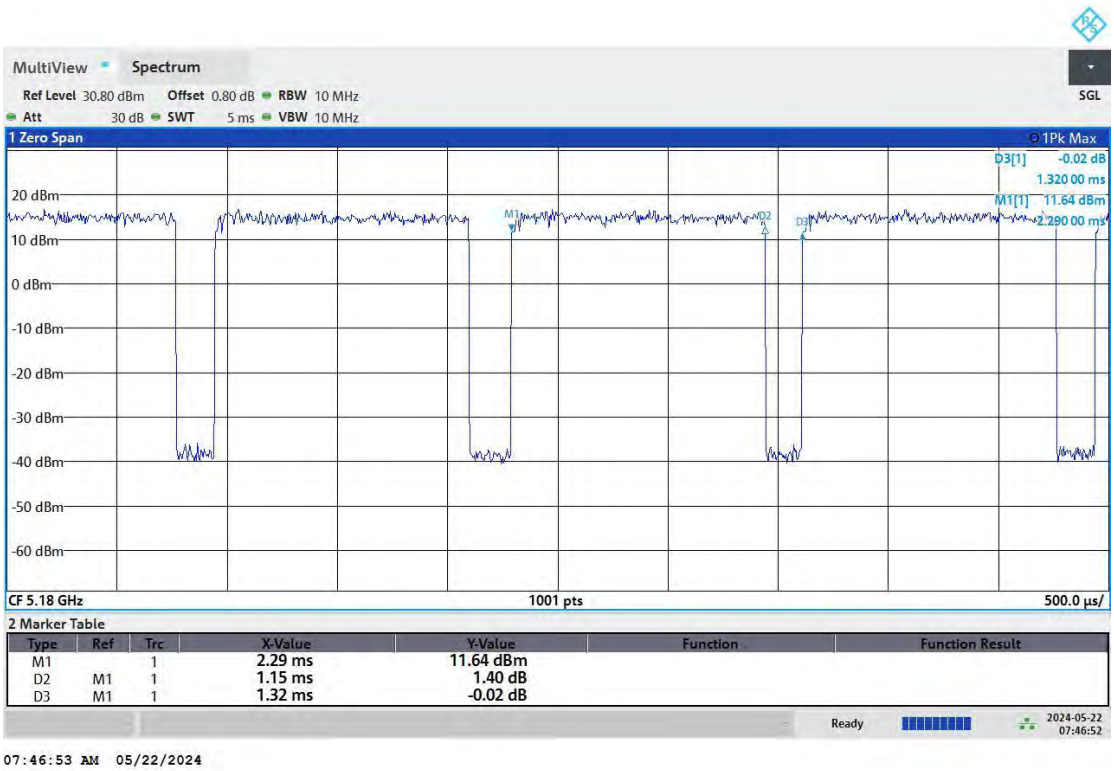
11A _Ant0_5180



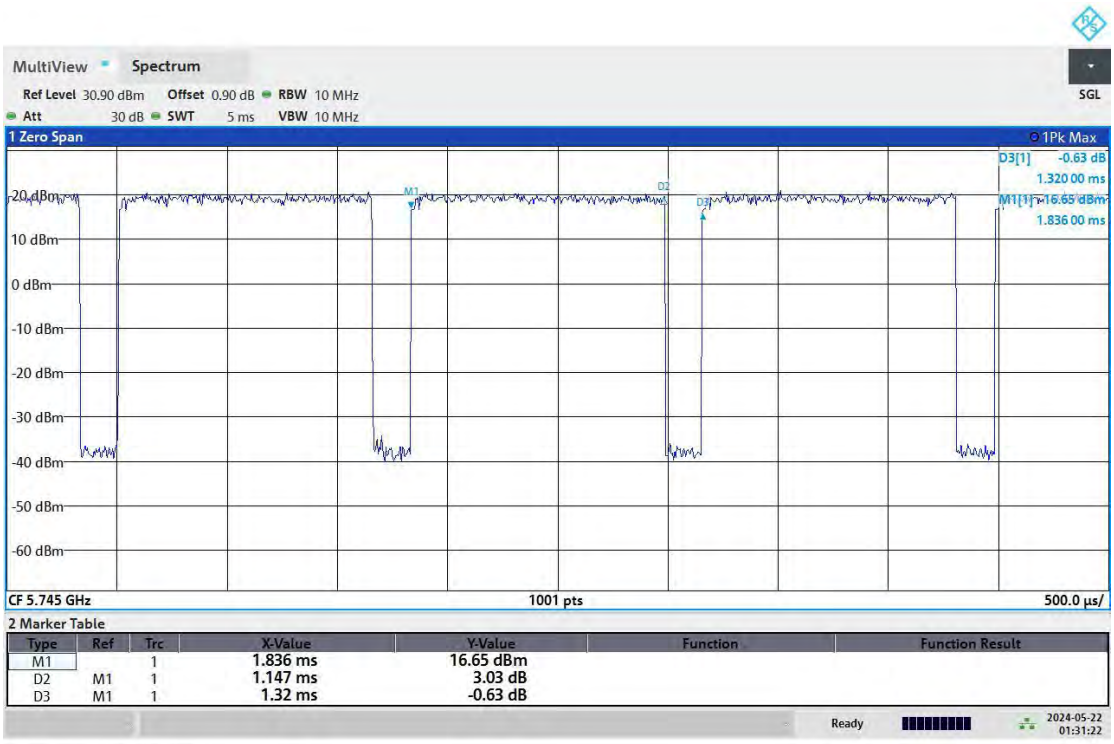
Band4-11A _Ant0_5745



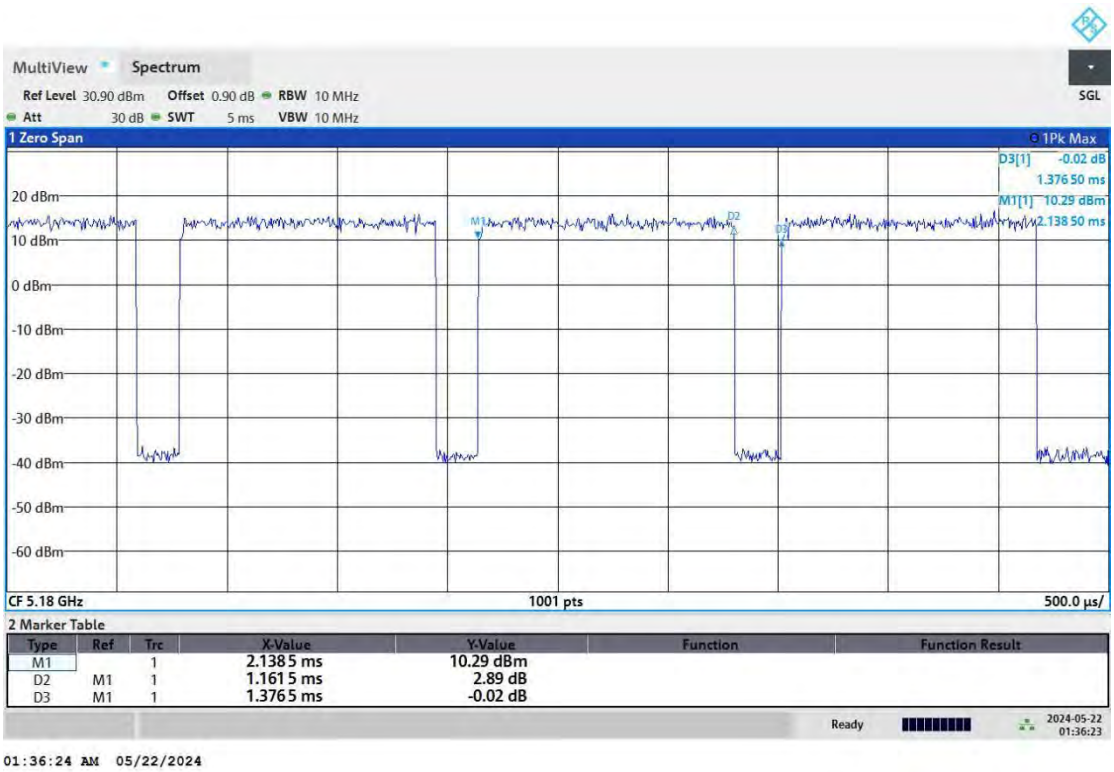
11N20SISO_Ant0 _5180



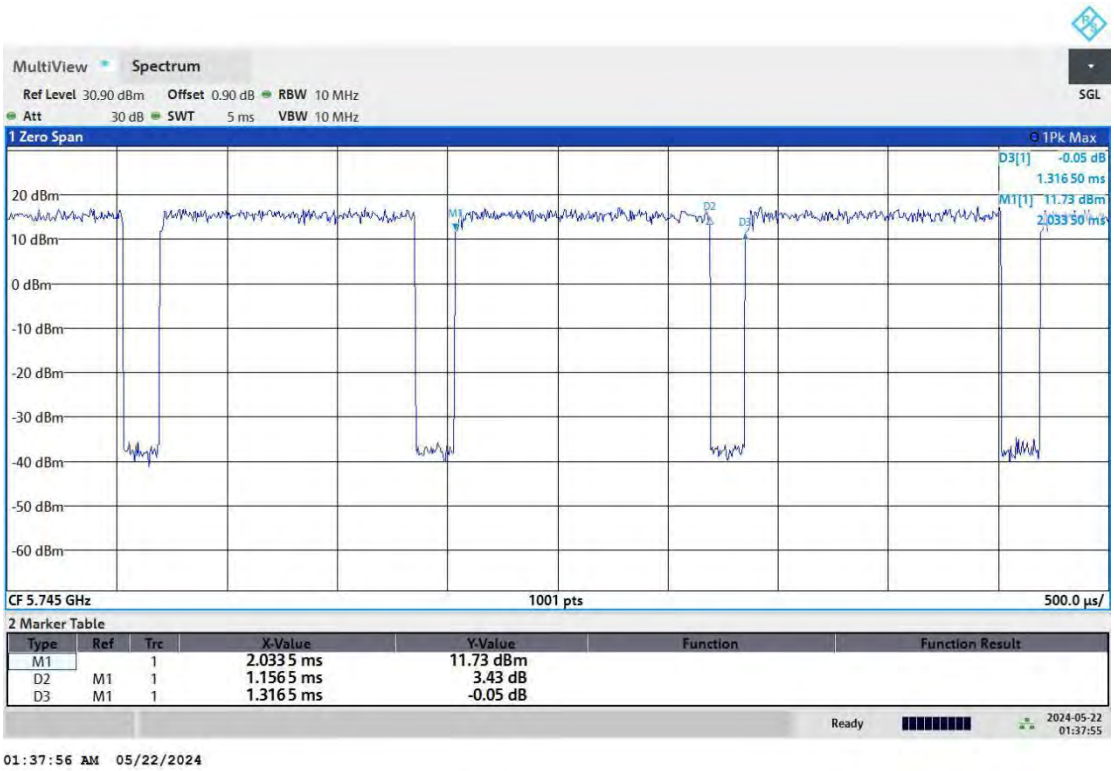
Band4-11N20SISO_Ant0 _5745



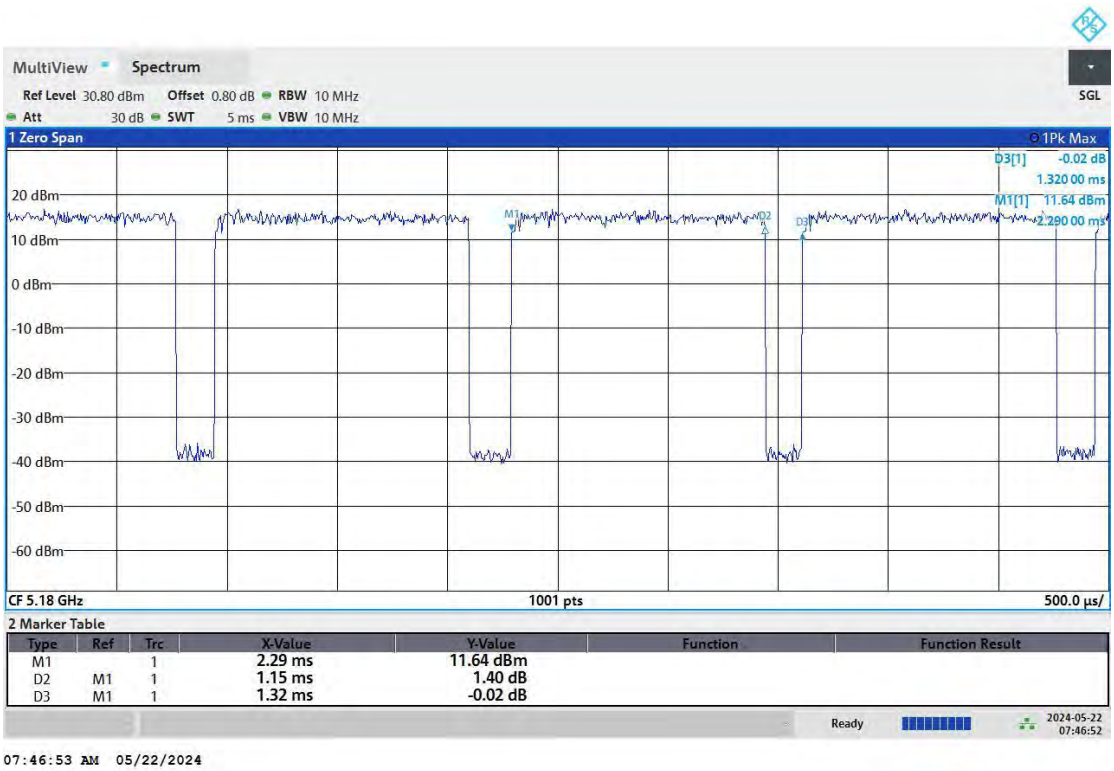
11AC20SISO_Ant0 _5180



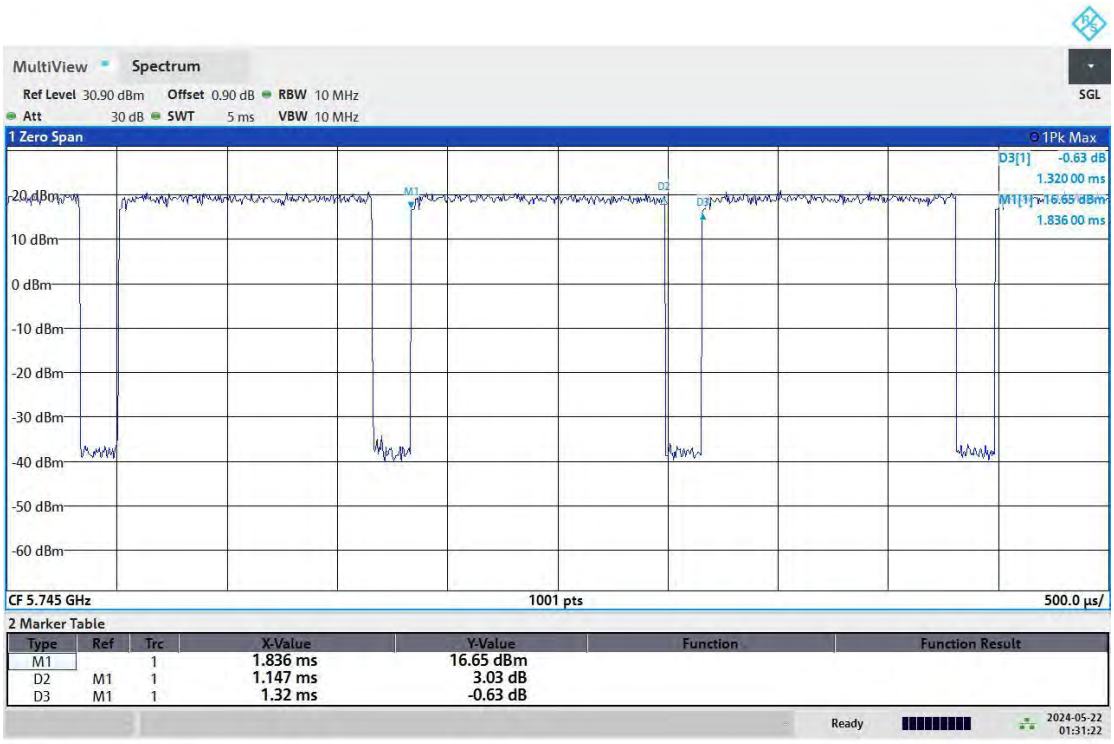
Band4-11AC20SISO_Ant0 _5745



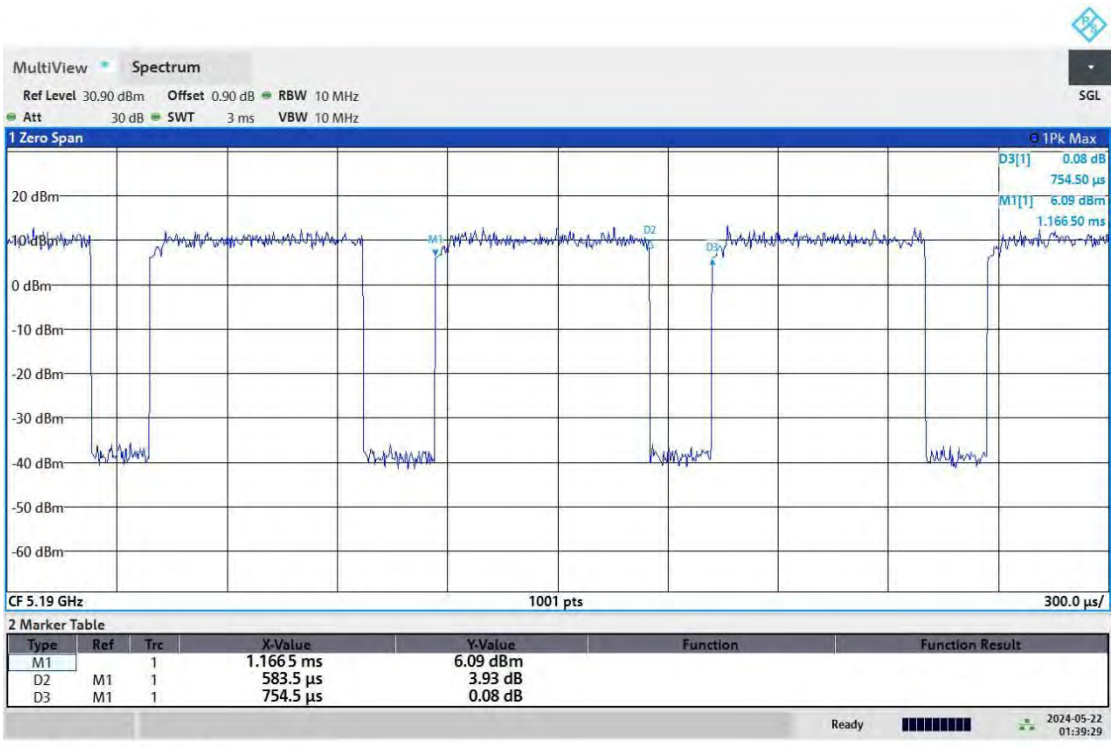
11N40SISO_Ant0 _5190



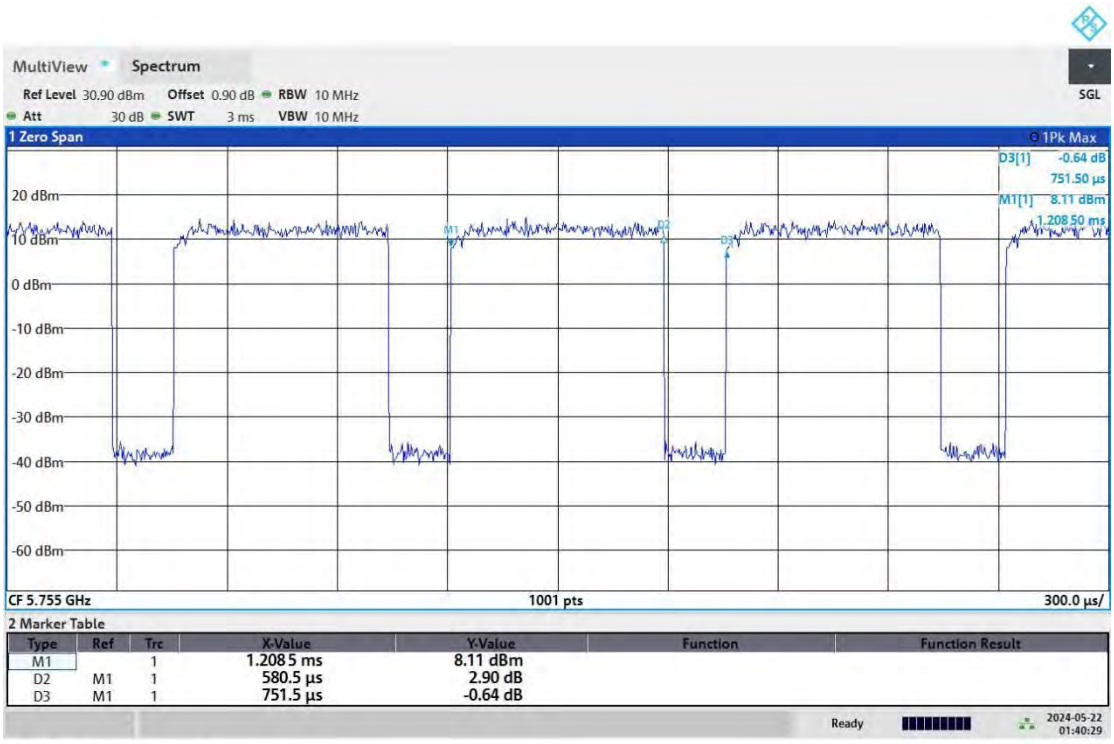
Band4-11N40SISO_Ant0 _5755



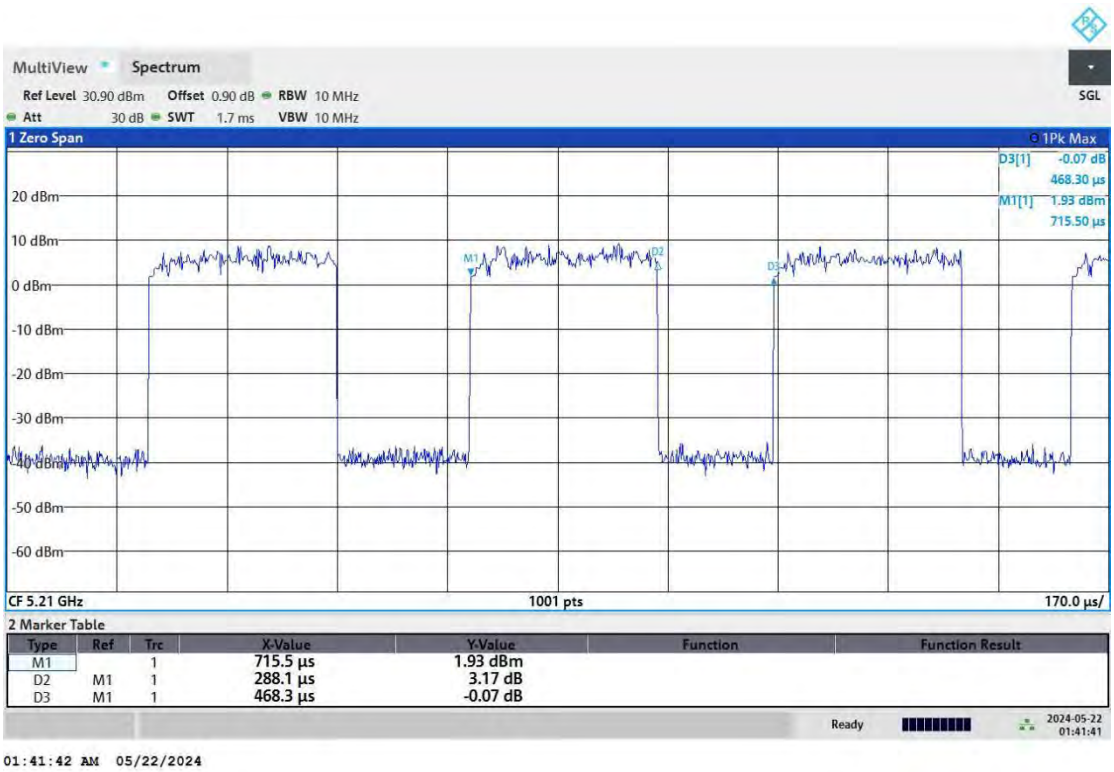
11AC40SISO_Ant0 _5190



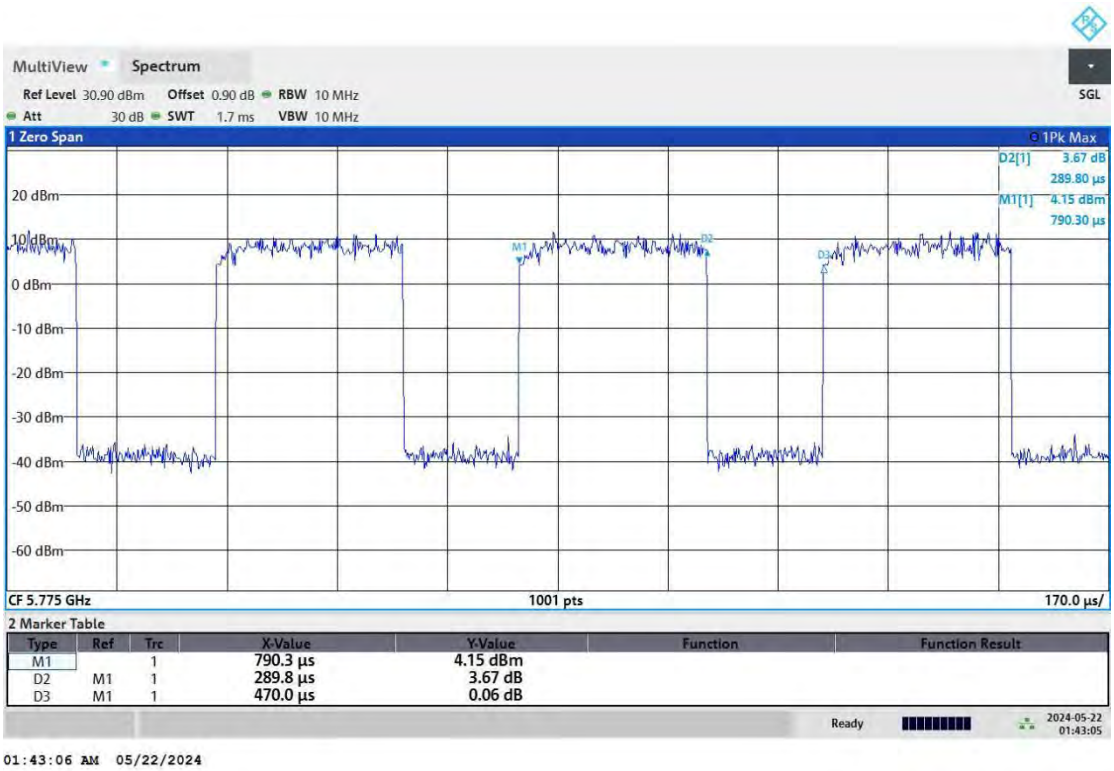
Band4-11AC40SISO_Ant0 _5755



11AC80SISO_Ant0 _5210



Band4-11AC80SISO_Ant0 _5775


MultiView
Spectrum
Ref Level 30.90 dBm Offset 0.90 dB RBW 10 MHz
Att 30 dB SWT 1.7 ms VBW 10 MHz
SGL
1 Zero Span
1Pk Max
D2[1] 3.67 dB
289.80 µs
M1[1] 4.15 dBm
790.30 µs
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 5.775 GHz
1001 pts
170.0 µs/
2 Marker Table
Type Ref Trc X-Value Y-Value Function Function Result
M1 1 790.3 µs 4.15 dBm
D2 M1 1 289.8 µs 3.67 dB
D3 M1 1 470.0 µs 0.06 dB
Ready
2024-05-22
01:43:05
01:43:06 AM 05/22/2024

MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

BV Power Table For_U-NII-1							
Test Mode	TX Mod.	Freq. (MHz)	Ant.	Maximum Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	Verdict	Power Setting
11A	SISO	5180	Ant1	11.50	≤24.00	Pass	14
		5200	Ant1	10.37	≤24.00	Pass	14
		5240	Ant1	13.08	≤24.00	Pass	14
11N20	SISO	5180	Ant1	10.40	≤24.00	Pass	13
		5200	Ant1	9.77	≤24.00	Pass	13
		5240	Ant1	12.19	≤24.00	Pass	13
11N40	SISO	5190	Ant1	10.47	≤24.00	Pass	13
		5230	Ant1	11.82	≤24.00	Pass	13
11AC20	SISO	5180	Ant1	10.46	≤24.00	Pass	13
		5200	Ant1	9.82	≤24.00	Pass	13
		5240	Ant1	12.32	≤24.00	Pass	13
11AC40	SISO	5190	Ant1	10.51	≤24.00	Pass	13
		5230	Ant1	11.87	≤24.00	Pass	13
11AC80	SISO	5210	Ant1	10.20	≤24.00	Pass	13
Note:The Maximum Conducted Power with duty cycle factor.							

BV Power Table For_U-NII-2A							
Test Mode	TX Mod.	Freq. (MHz)	Ant.	Maximum Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	Verdict	Power Setting
11A	SISO	5260	Ant1	13.14	≤24.00	Pass	14
		5300	Ant1	13.18	≤24.00	Pass	14
		5320	Ant1	13.52	≤24.00	Pass	14
11N20	SISO	5260	Ant1	12.34	≤24.00	Pass	13
		5300	Ant1	13.02	≤24.00	Pass	13
		5320	Ant1	13.22	≤24.00	Pass	13
11N40	SISO	5270	Ant1	12.53	≤24.00	Pass	13
		5310	Ant1	13.33	≤24.00	Pass	13
11AC20	SISO	5260	Ant1	12.47	≤24.00	Pass	13
		5300	Ant1	13.20	≤24.00	Pass	13
11AC40	SISO	5270	Ant1	12.58	≤24.00	Pass	13
		5310	Ant1	13.37	≤24.00	Pass	13
11AC80	SISO	5290	Ant1	13.21	≤24.00	Pass	13
Note:The Maximum Conducted Power with duty cycle factor.							

BV Power Table For_U-NII-2C							
Test Mode	TX Mod.	Freq. (MHz)	Ant.	Maximum Conducted Power (dBm)	FCC Conducted Power Limit (dBm)	Verdict	Power Setting
11A	SISO	5500	Ant1	13.90	≤24.00	Pass	14
		5580	Ant1	13.88	≤24.00	Pass	14
		5700	Ant1	13.87	≤24.00	Pass	14
11N20	SISO	5500	Ant1	13.74	≤24.00	Pass	13
		5580	Ant1	13.48	≤24.00	Pass	13
		5700	Ant1	12.94	≤24.00	Pass	13
11N40	SISO	5510	Ant1	13.48	≤24.00	Pass	13
		5550	Ant1	12.57	≤24.00	Pass	13
		5670	Ant1	13.82	≤24.00	Pass	13
11AC20	SISO	5500	Ant1	13.75	≤24.00	Pass	13
		5580	Ant1	13.54	≤24.00	Pass	13
		5700	Ant1	13.11	≤24.00	Pass	13
11AC40	SISO	5510	Ant1	13.49	≤24.00	Pass	13
		5550	Ant1	12.59	≤24.00	Pass	13
		5670	Ant1	13.85	≤24.00	Pass	13
11AC80	SISO	5530	Ant1	12.90	≤24.00	Pass	13
		5610	Ant1	12.91	≤24.00	Pass	13
		5690	Ant1	13.60	≤24.00	Pass	13
Note:The Maximum Conducted Power with duty cycle factor.							

BV Power Table For_U-NII-3							
Test Mode	TX Mod.	Freq. (MHz)	Ant.	Maximum Conducted Power (dBm)	Conducted Power Limit (dBm)	Verdict	Power Setting
11A	SISO	5745	Ant1	13.66	≤30.00	Pass	14
		5785	Ant1	13.15	≤30.00	Pass	14
		5825	Ant1	13.15	≤30.00	Pass	14
11N20	SISO	5745	Ant1	13.41	≤30.00	Pass	13
		5785	Ant1	12.38	≤30.00	Pass	13
		5825	Ant1	12.94	≤30.00	Pass	13
11N40	SISO	5755	Ant1	13.60	≤30.00	Pass	13
		5795	Ant1	12.46	≤30.00	Pass	13
11AC20	SISO	5745	Ant1	13.42	≤30.00	Pass	13
		5785	Ant1	12.45	≤30.00	Pass	13
		5825	Ant1	12.99	≤30.00	Pass	13
11AC40	SISO	5755	Ant1	13.60	≤30.00	Pass	13
		5795	Ant1	12.56	≤30.00	Pass	13
11AC80	SISO	5775	Ant1	13.13	≤30.00	Pass	13
Note:The Maximum Conducted Power with duty cycle factor.							

MAXIMUM POWER SPECTRAL DENSITY

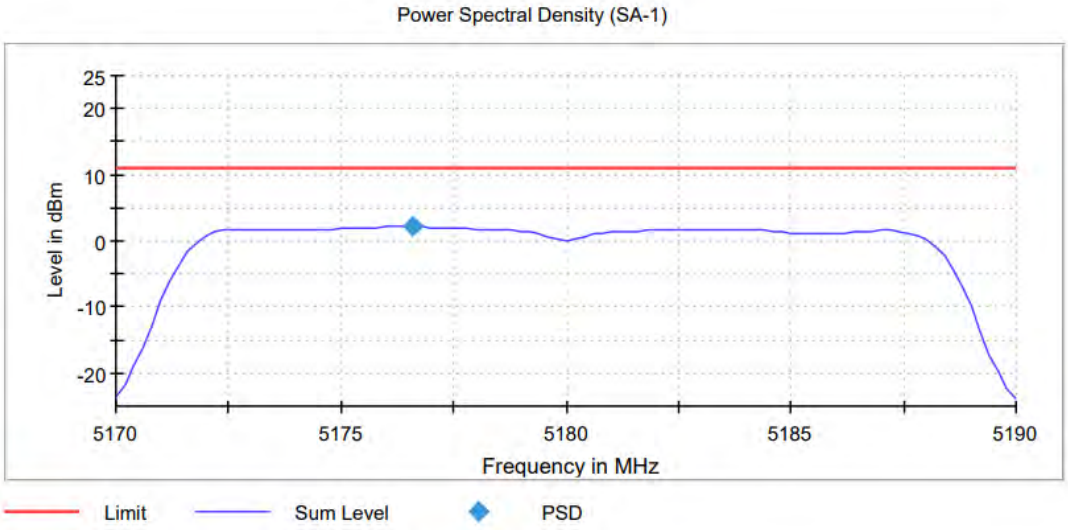
TEST RESULT

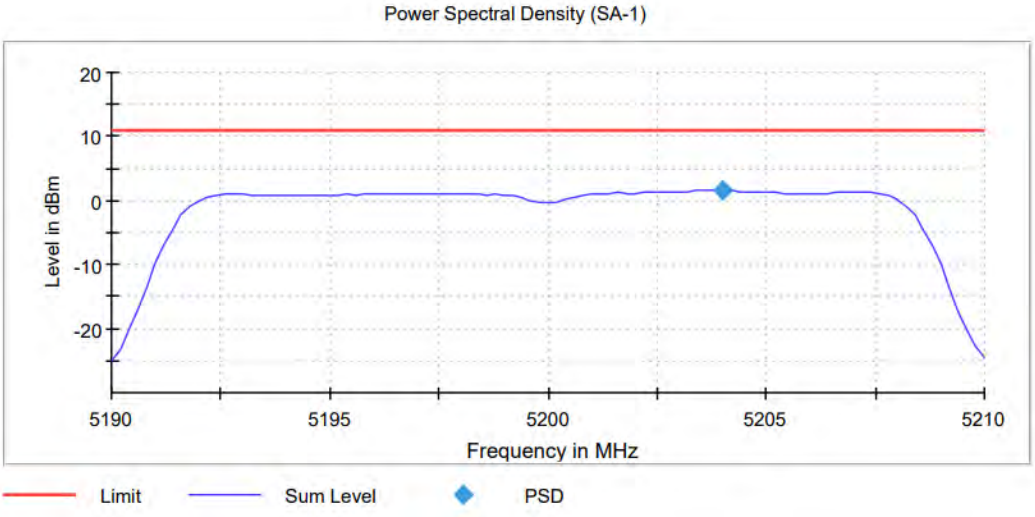
TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	PSD Limit [dBm/MHz]	Verdict
11A	Ant0	5180	2.133	≤11.00	Pass
	Ant0	5200	1.543	≤11.00	Pass
	Ant0	5240	4.465	≤11.00	Pass
	Ant0	5260	4.242	≤11.00	Pass
	Ant0	5300	5.126	≤11.00	Pass
	Ant0	5320	4.999	≤11.00	Pass
	Ant0	5500	5.611	≤11.00	Pass
	Ant0	5580	5.646	≤11.00	Pass
	Ant0	5700	5.109	≤11.00	Pass
	Ant0	5745	2.637	≤30.00	Pass
	Ant0	5785	1.402	≤30.00	Pass
	Ant0	5825	1.404	≤30.00	Pass
11AC20-MIMO	Ant0	5180	-4.849	≤11.00	Pass
	Ant0	5200	-5.663	≤11.00	Pass
	Ant0	5240	-4.299	≤11.00	Pass
	Ant0	5260	-3.770	≤11.00	Pass
	Ant0	5300	-1.476	≤11.00	Pass
	Ant0	5320	-2.218	≤11.00	Pass
	Ant0	5500	-0.976	≤11.00	Pass
	Ant0	5580	-2.262	≤11.00	Pass
	Ant0	5700	-0.777	≤11.00	Pass
	Ant0	5745	-3.109	≤30.00	Pass
	Ant0	5785	-3.169	≤30.00	Pass
	Ant0	5825	-2.558	≤30.00	Pass
11AC40-MIMO	Ant0	5190	-7.868	≤11.00	Pass
	Ant0	5230	-8.278	≤11.00	Pass
	Ant0	5270	-5.491	≤11.00	Pass
	Ant0	5310	-5.184	≤11.00	Pass
	Ant0	5510	-4.108	≤11.00	Pass
	Ant0	5550	-5.660	≤11.00	Pass

	Ant0	5670	-4.457	≤11.00	Pass
	Ant0	5755	-5.709	≤30.00	Pass
	Ant0	5795	-5.598	≤30.00	Pass
11AC80-MIMO	Ant0	5210	-12.630	≤11.00	Pass
	Ant0	5290	-8.439	≤11.00	Pass
	Ant0	5530	-9.048	≤11.00	Pass
	Ant0	5610	-9.497	≤11.00	Pass
	Ant0	5690	-7.736	≤11.00	Pass
	Ant0	5775	-9.841	≤30.00	Pass

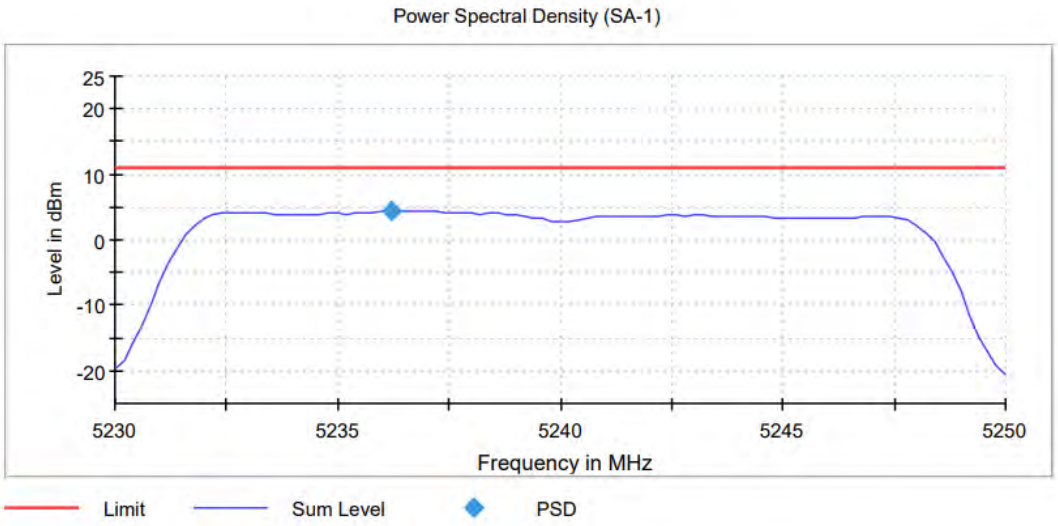
Note：1.PPSD is EIRP PSD

TEST GRAPHS

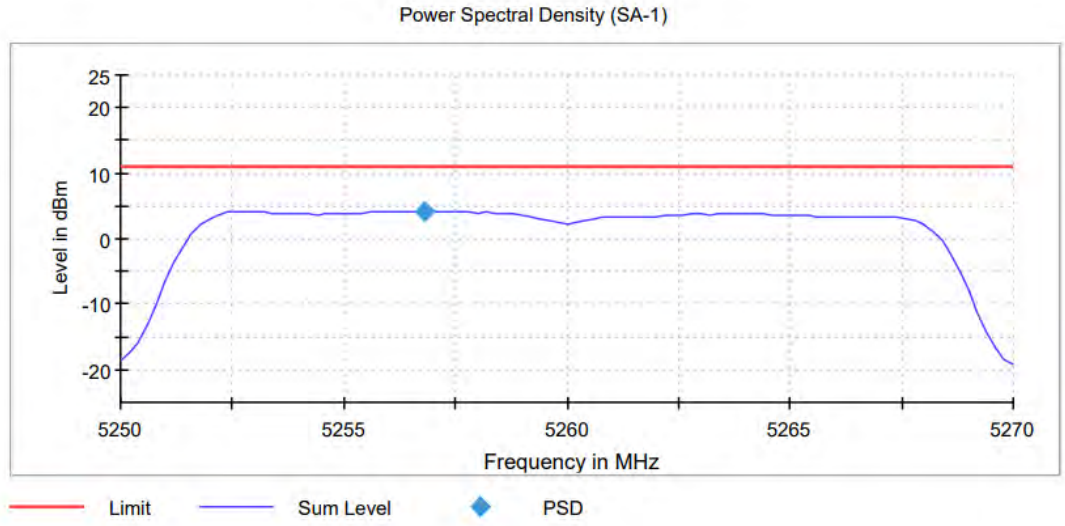
11A_Ant0_5180


11A _Ant0_5200


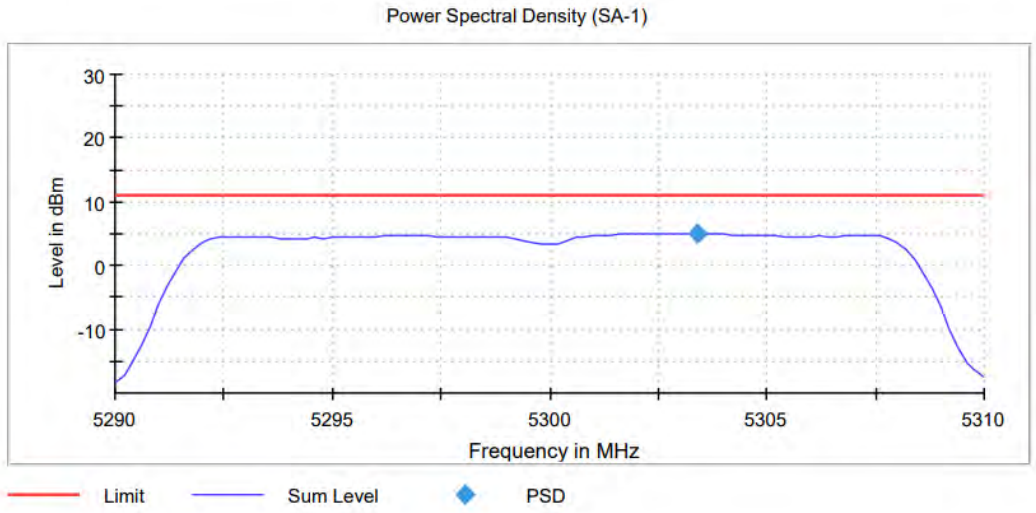
11A _Ant0_5240



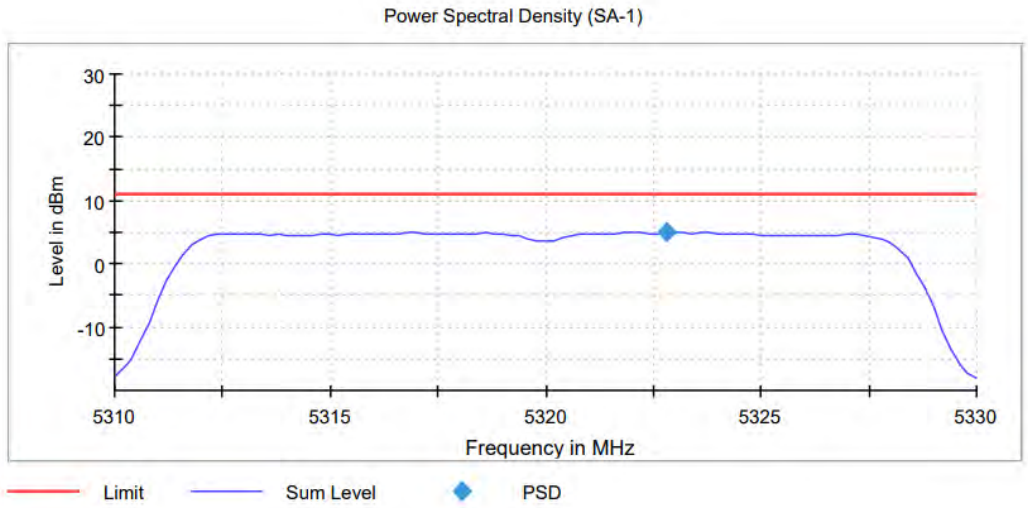
11A _Ant0_5260



11A _Ant0_5300



11A _Ant0_5320



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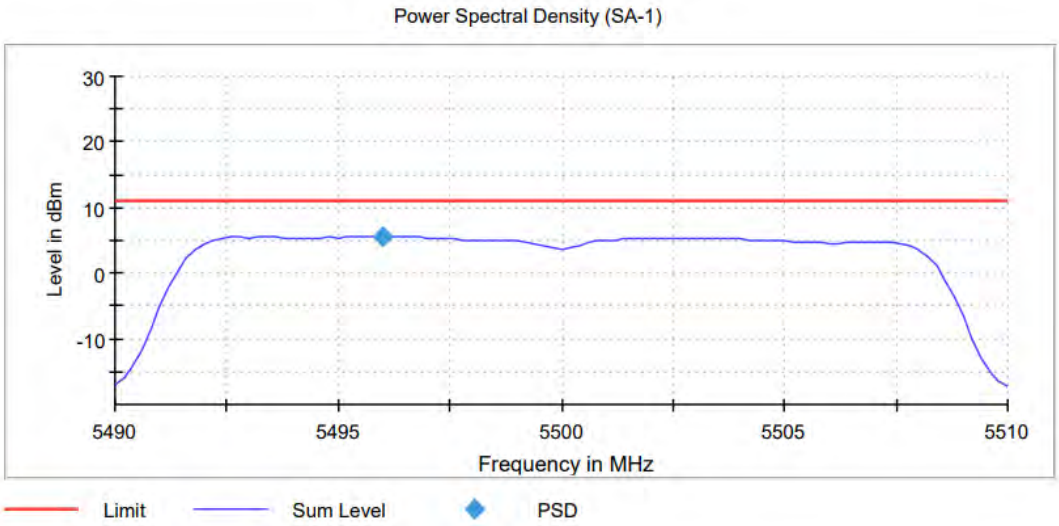

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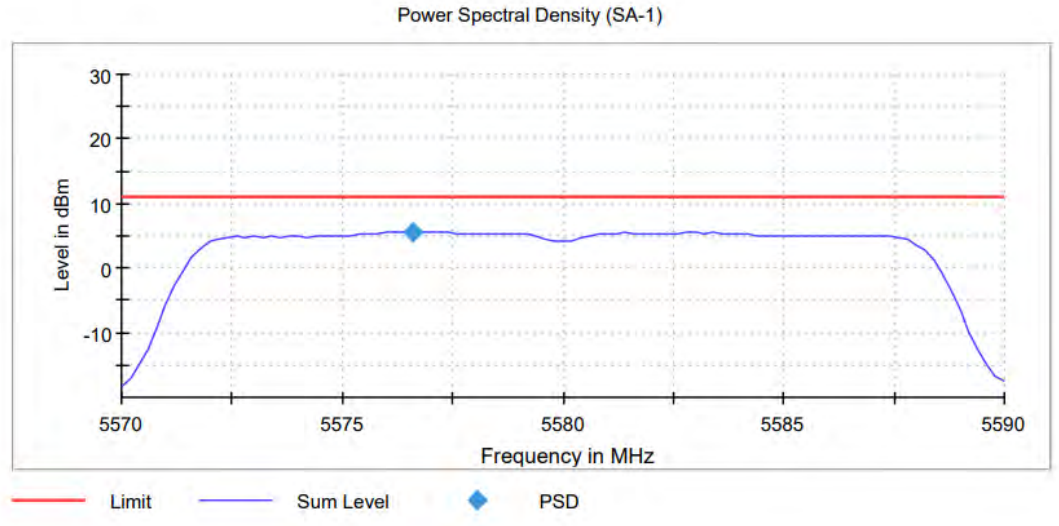

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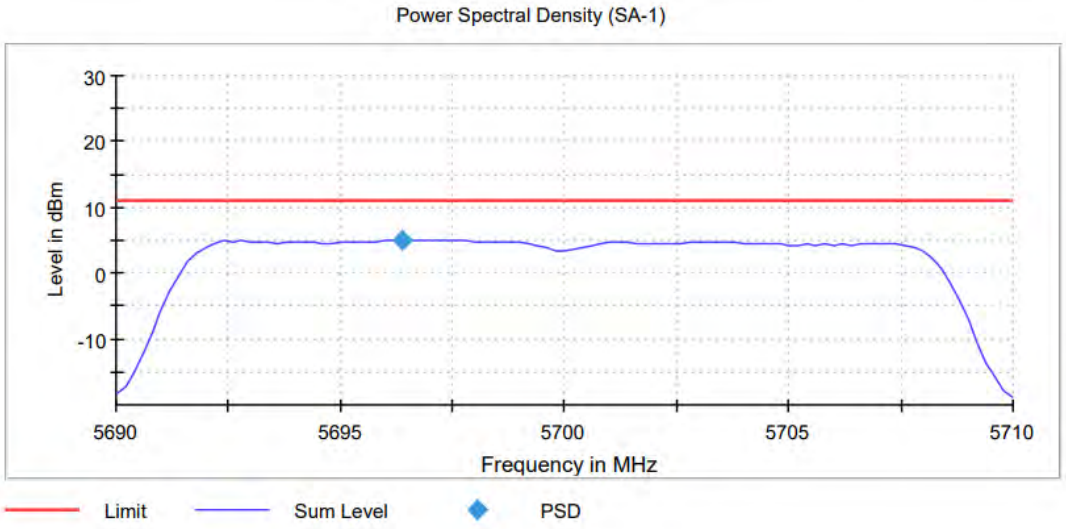

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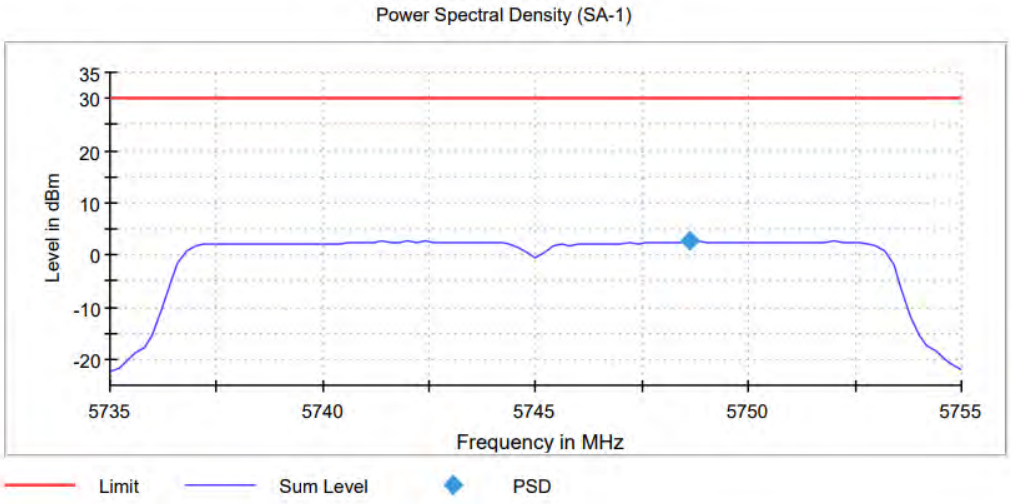

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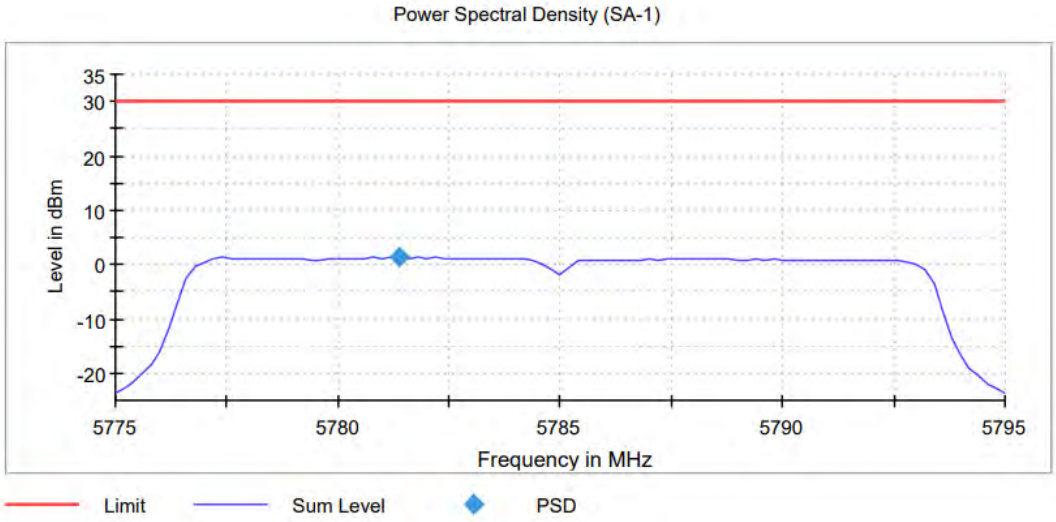

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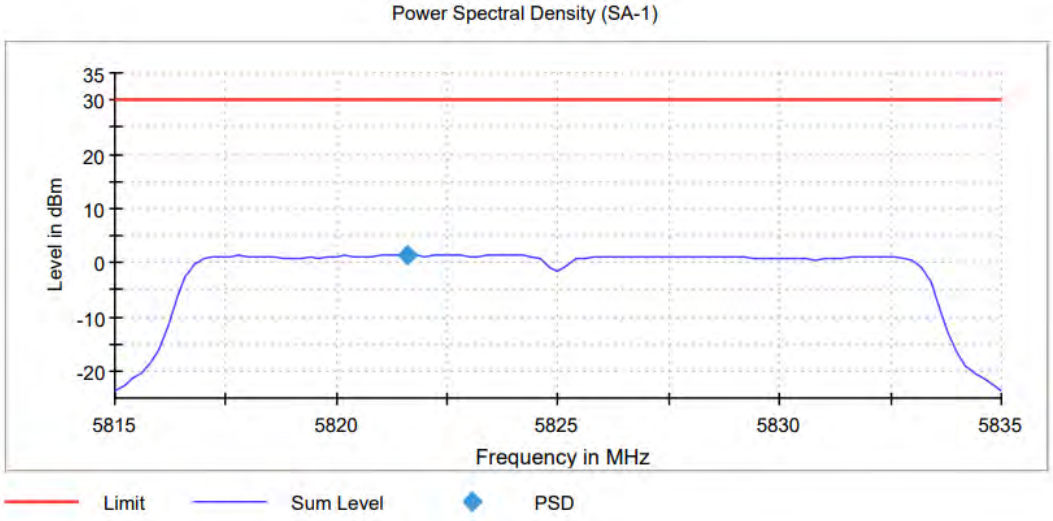

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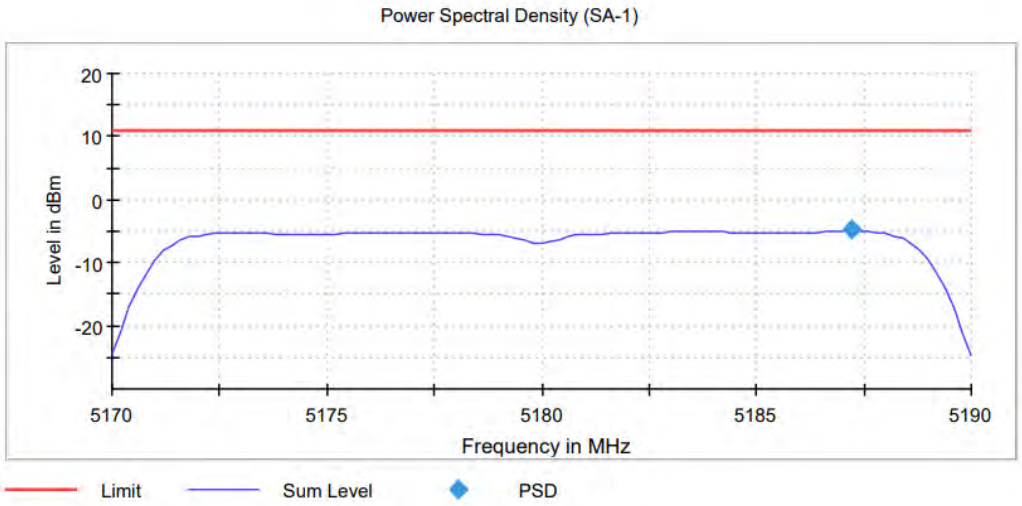

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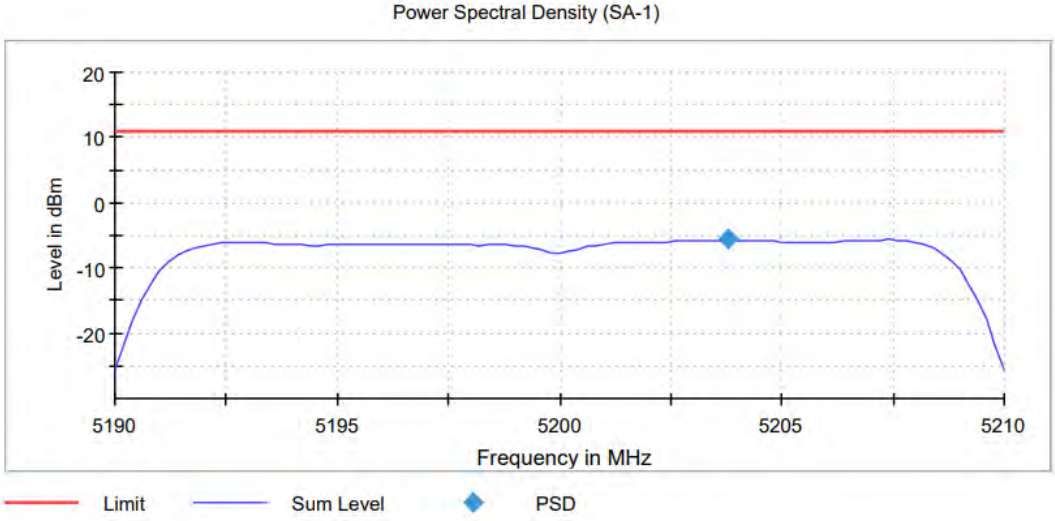

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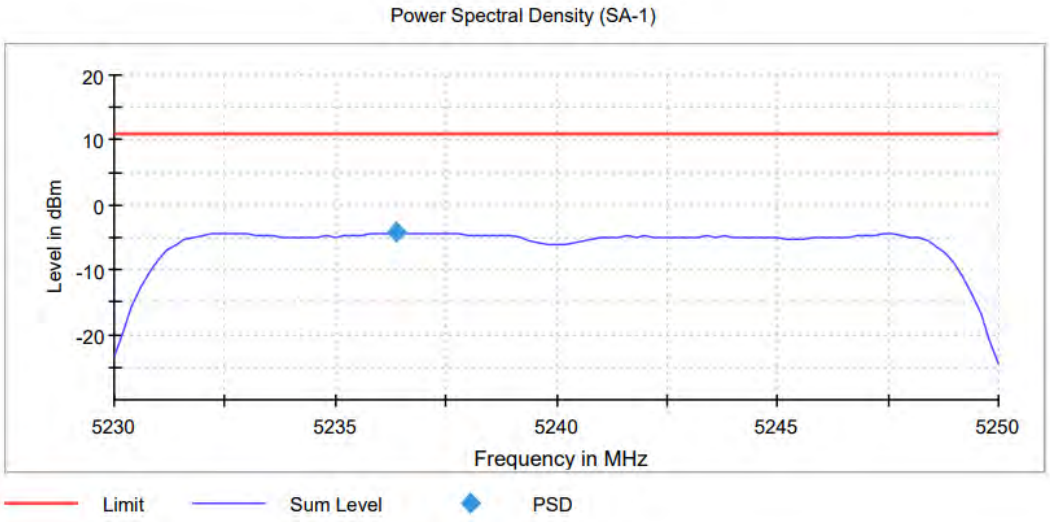

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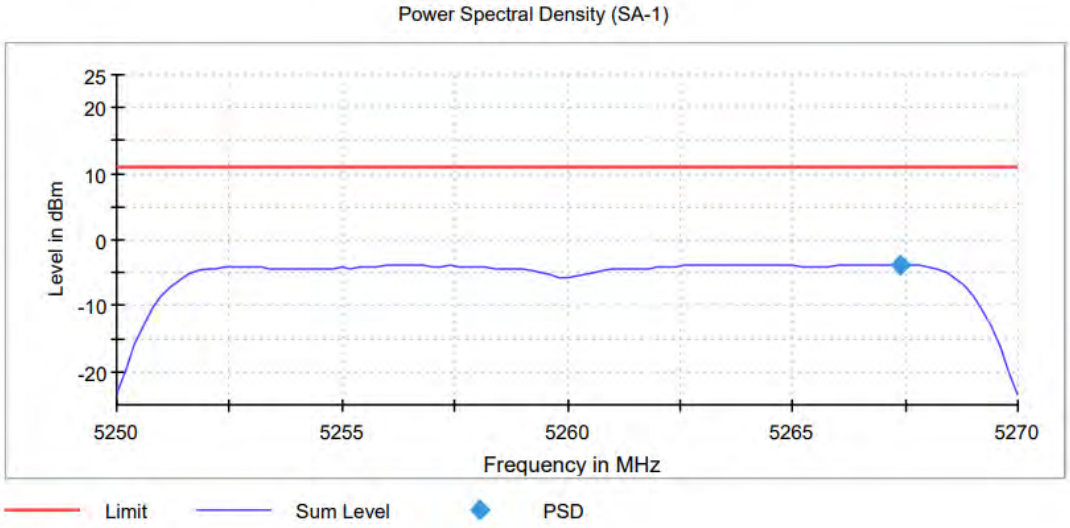

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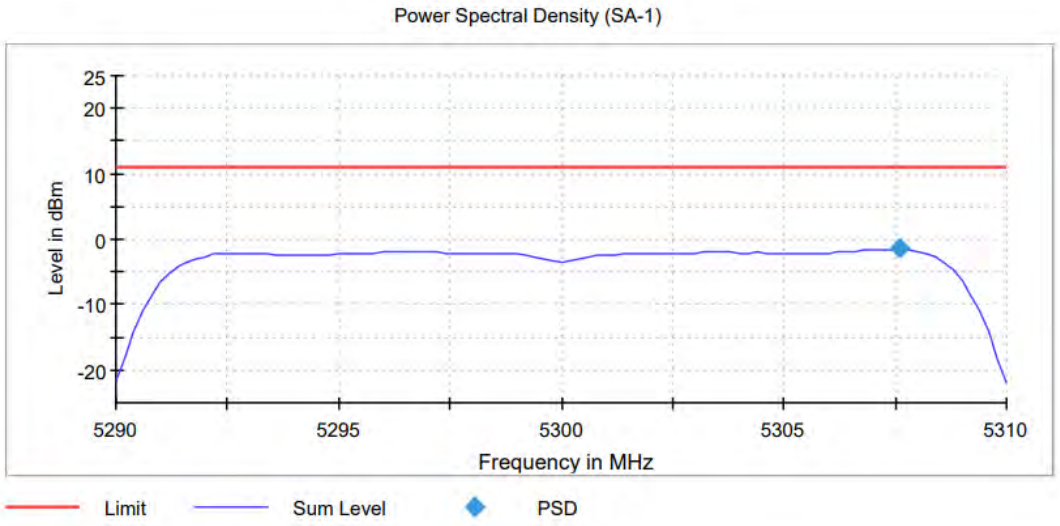

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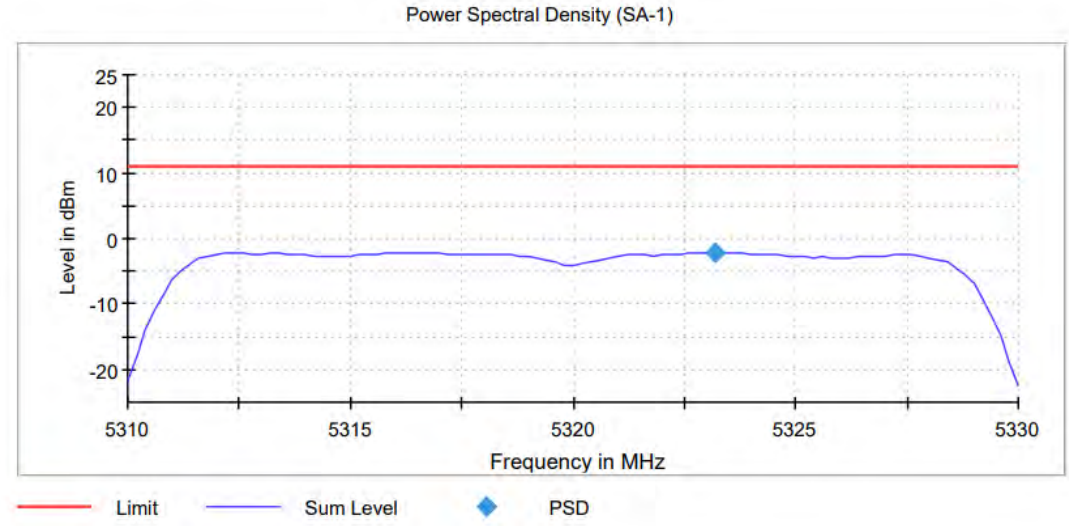

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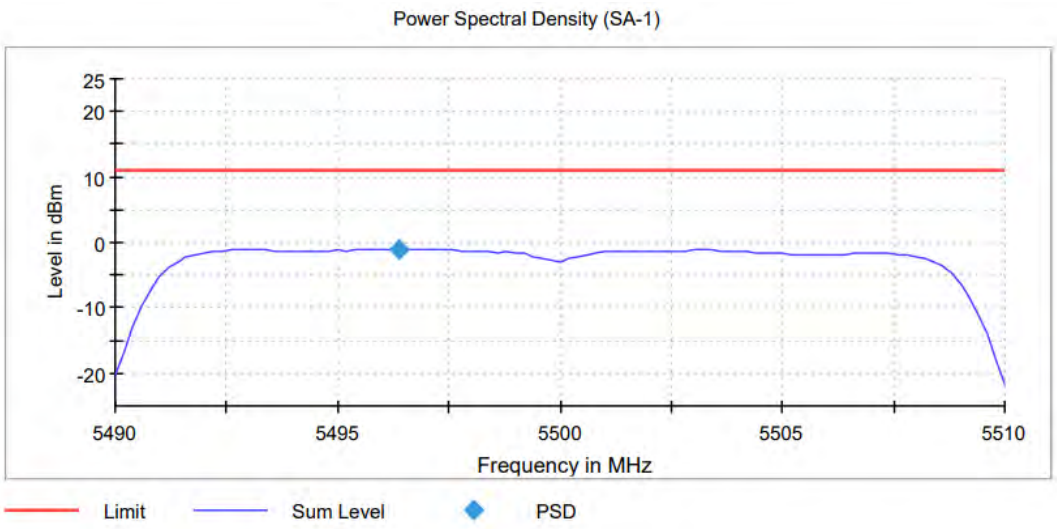

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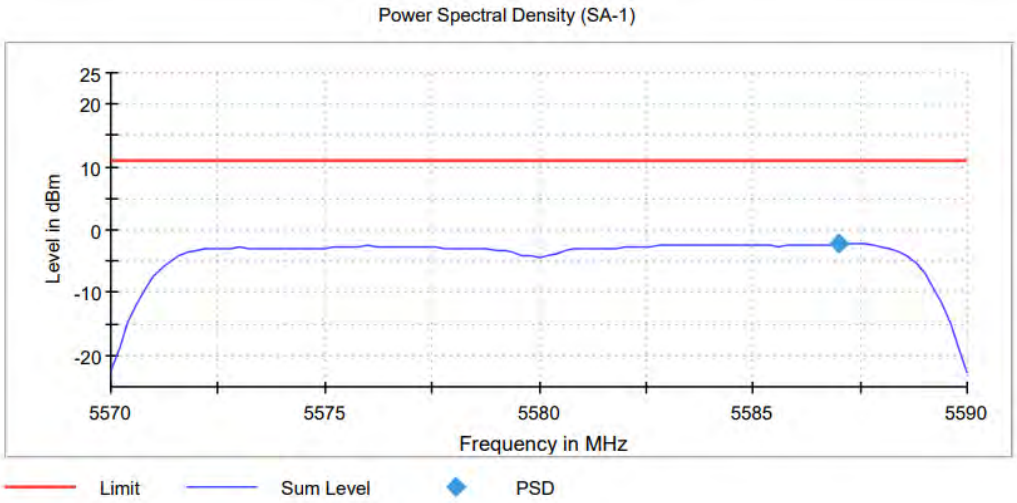

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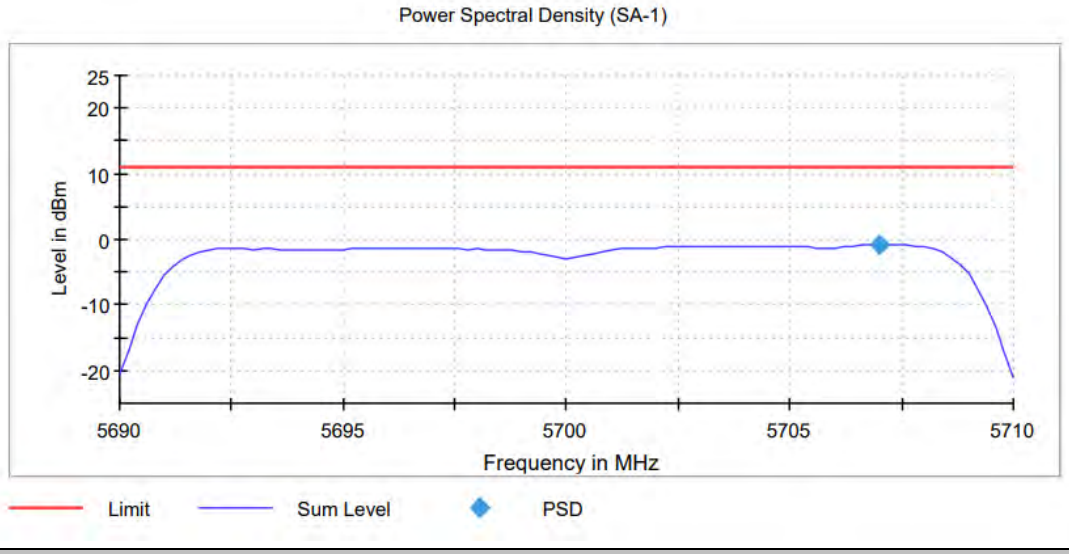

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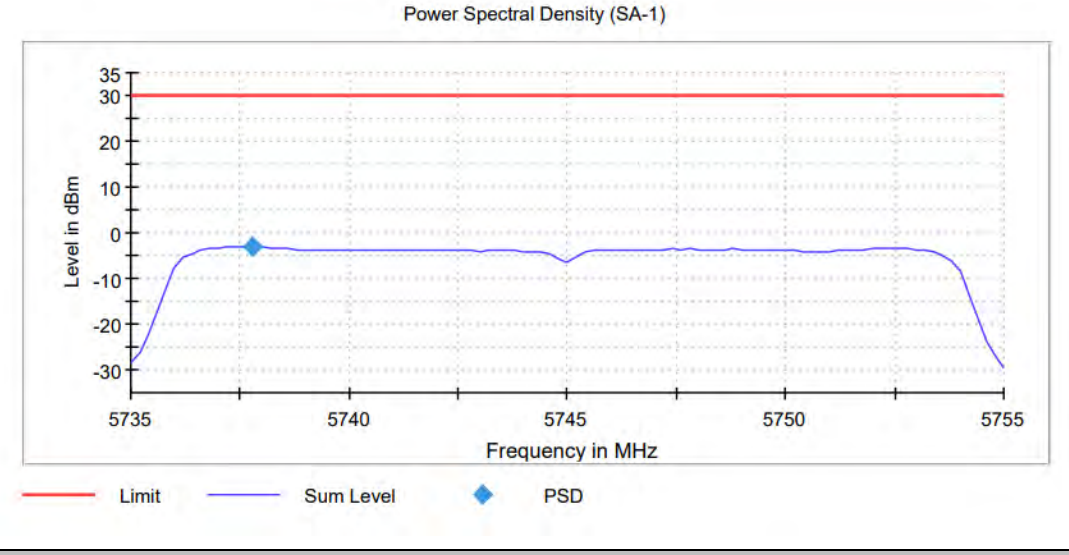

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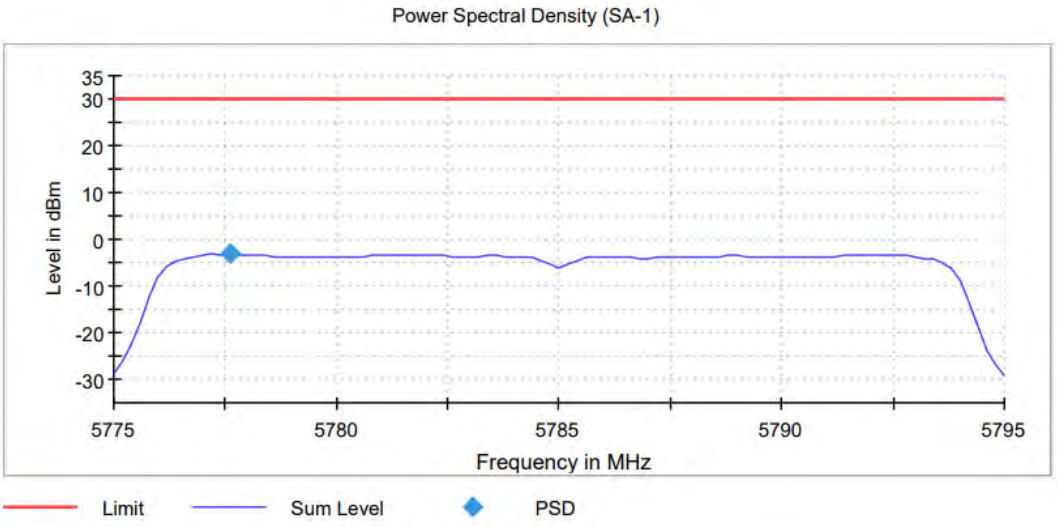

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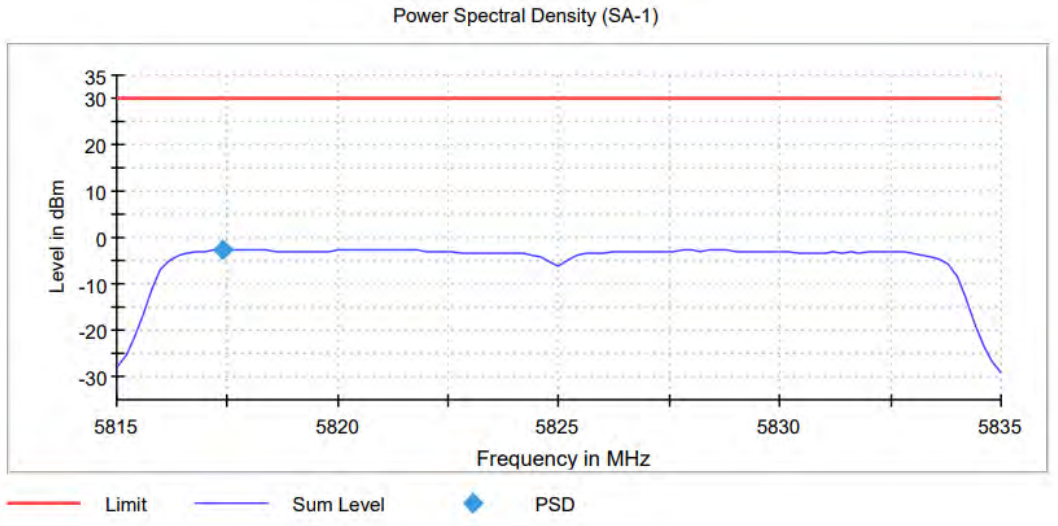

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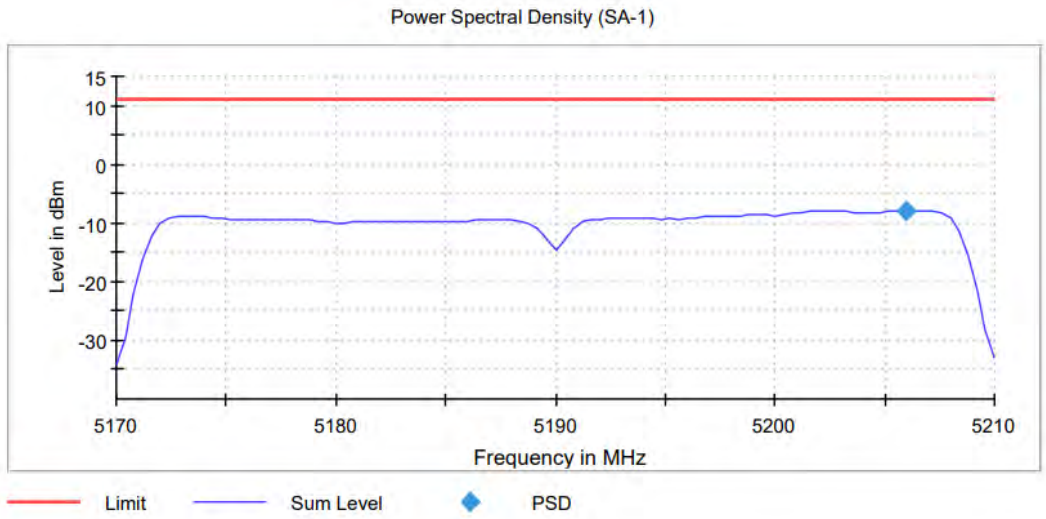

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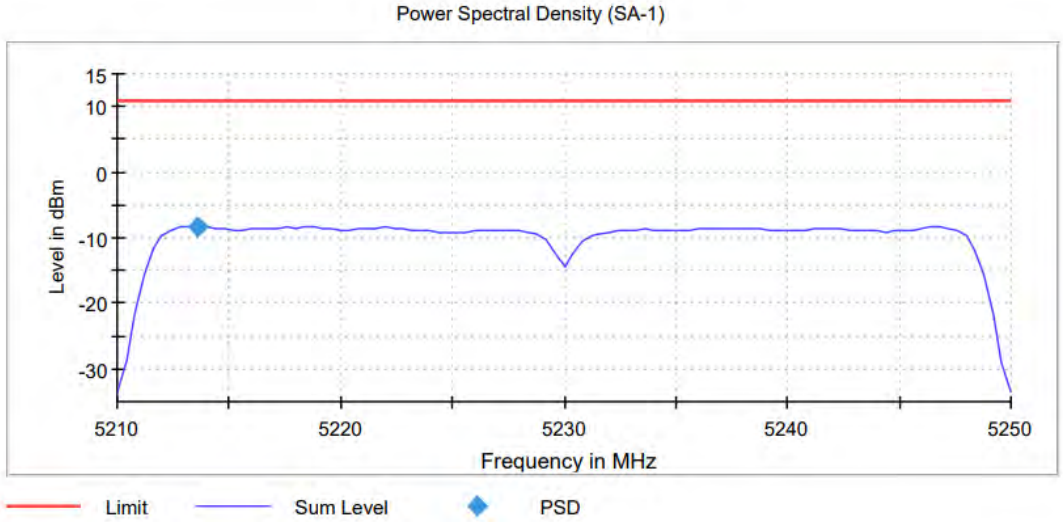

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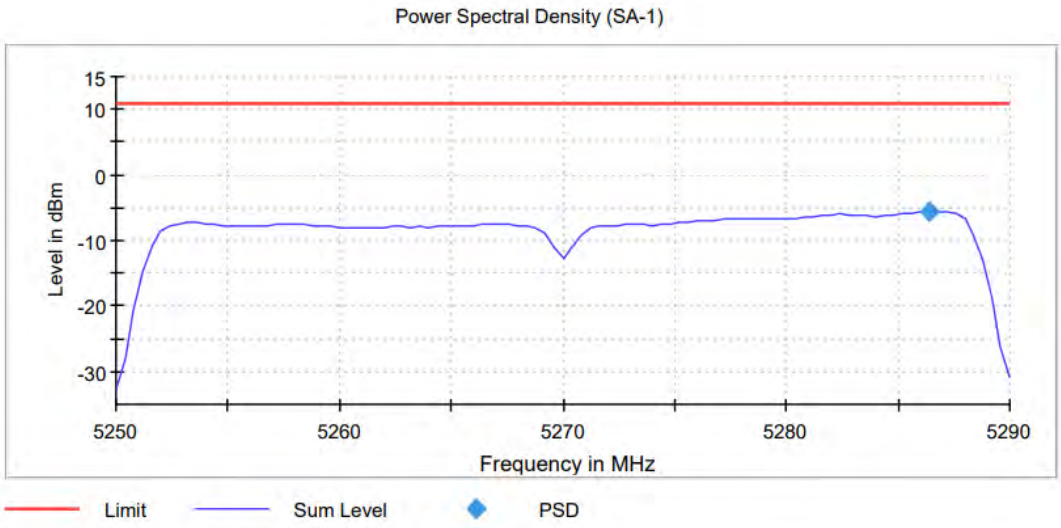

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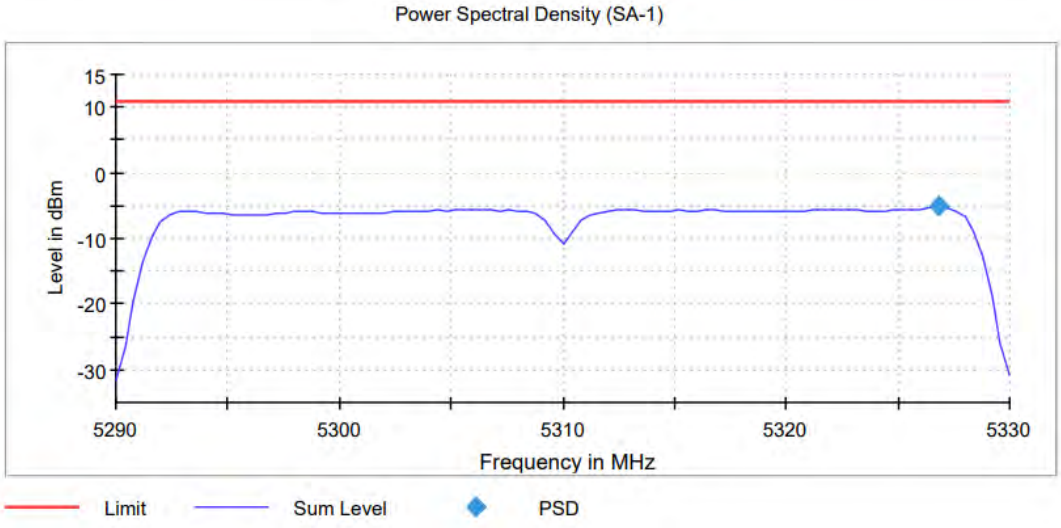

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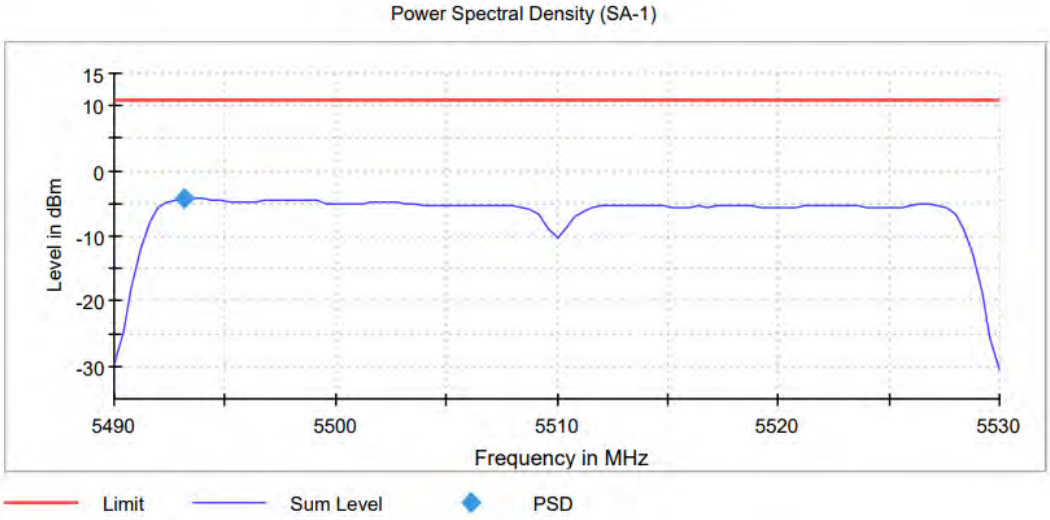

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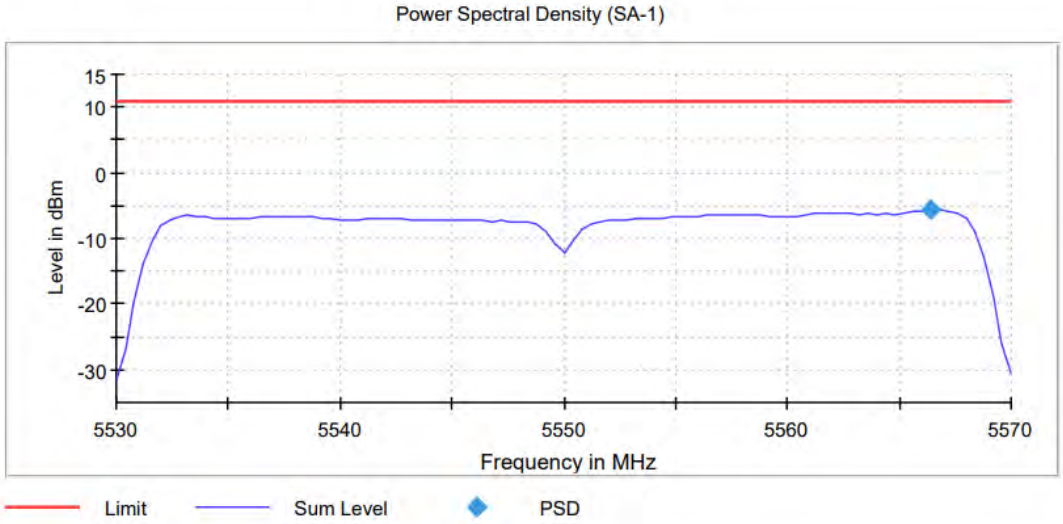

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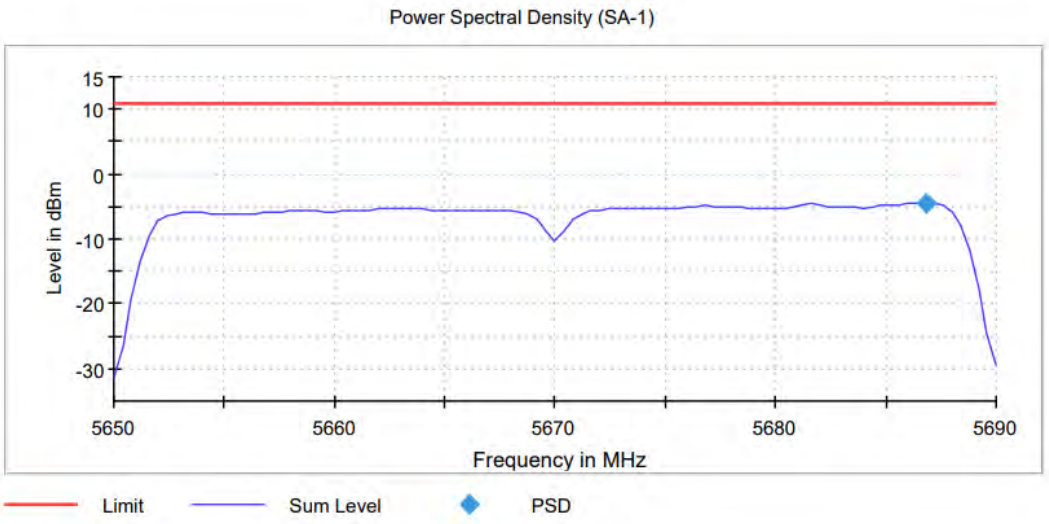

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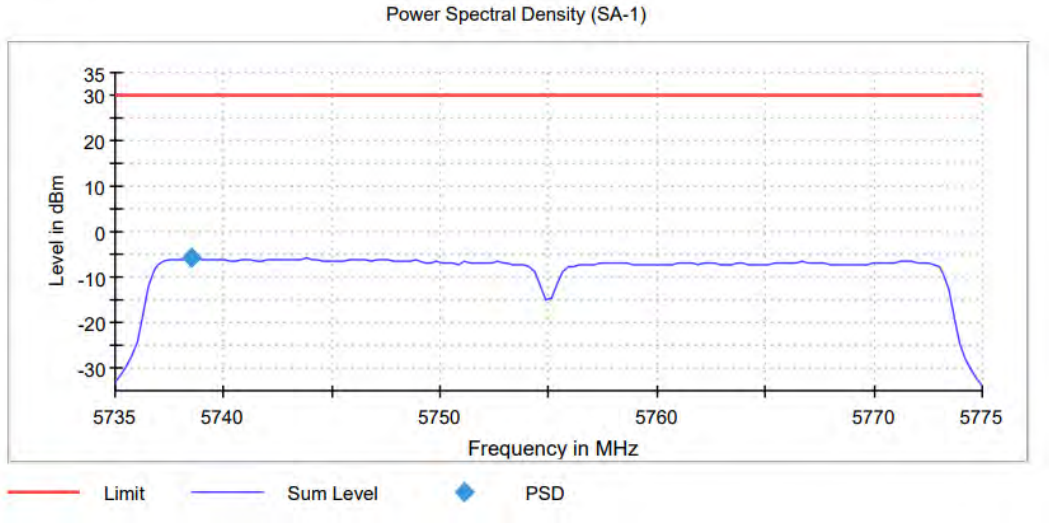

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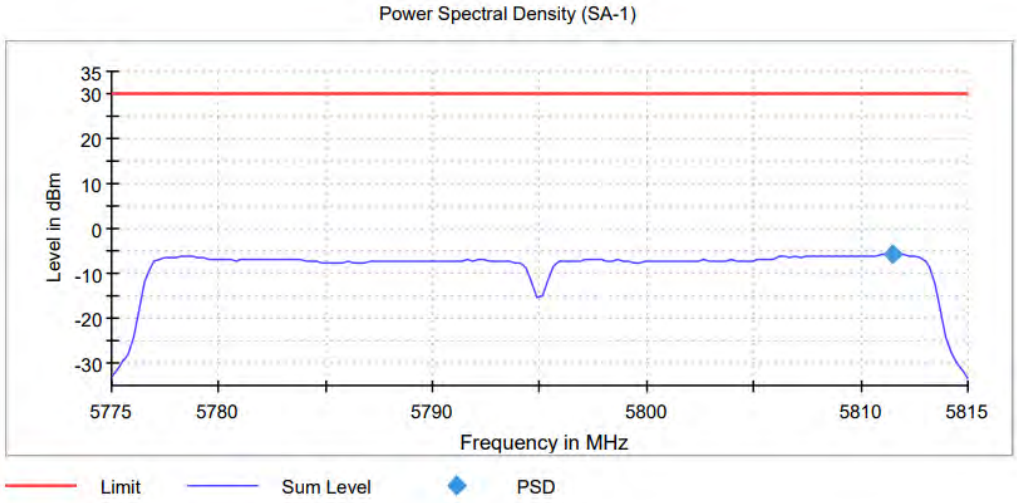

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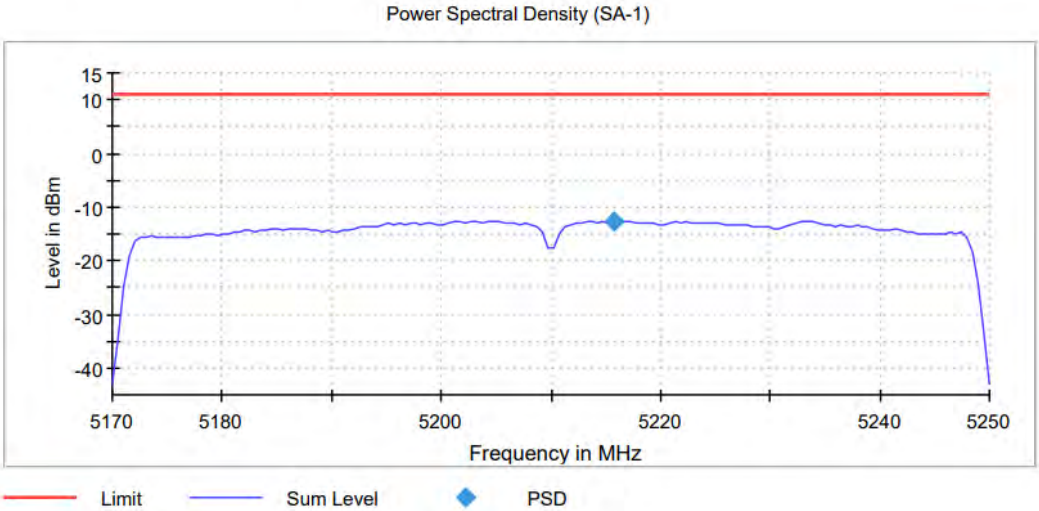

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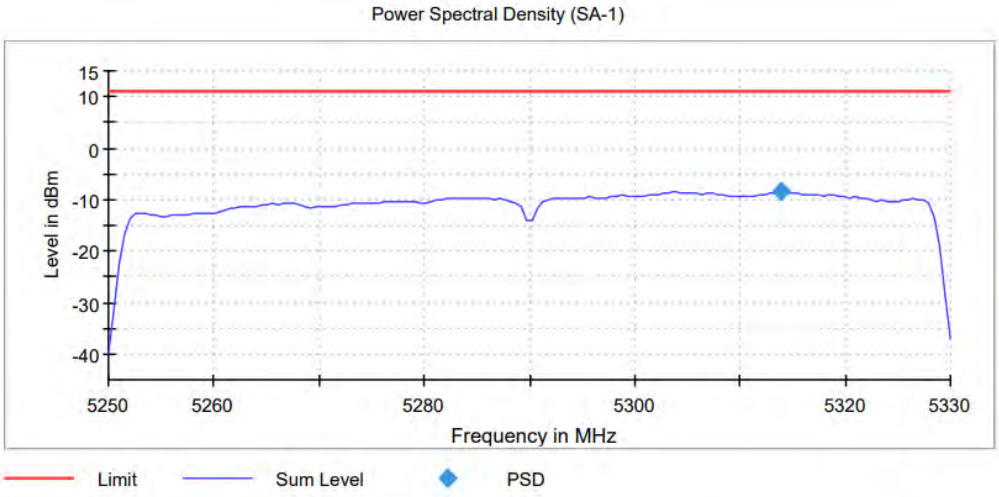

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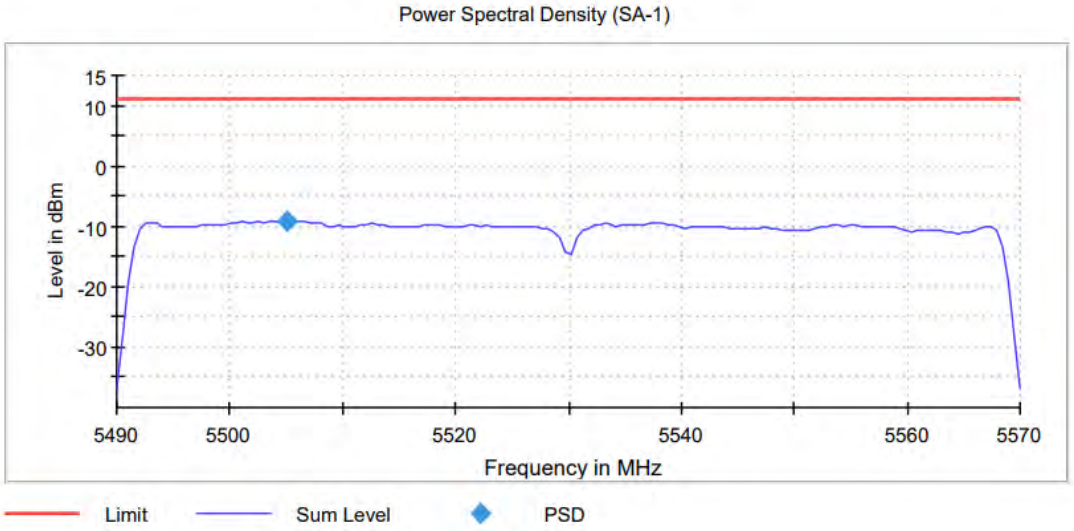

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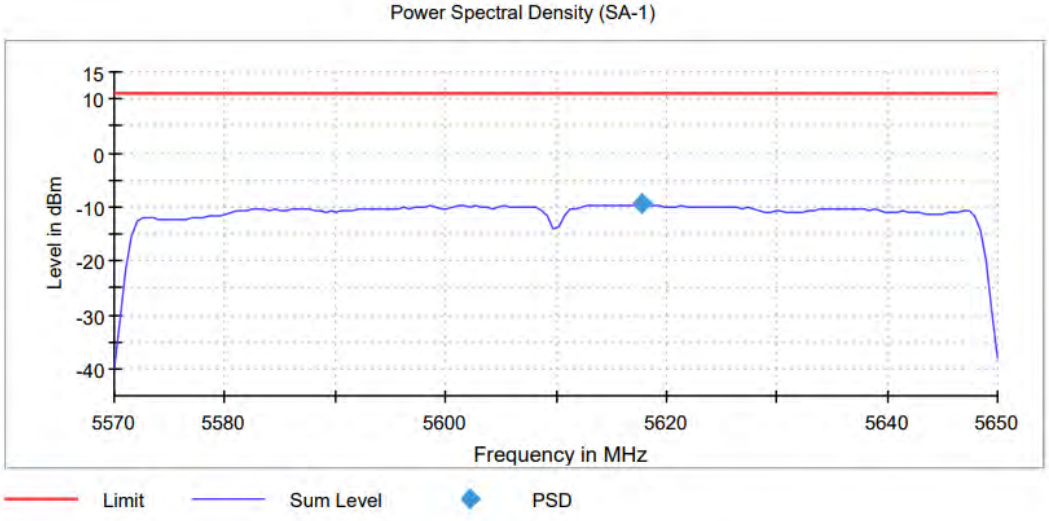

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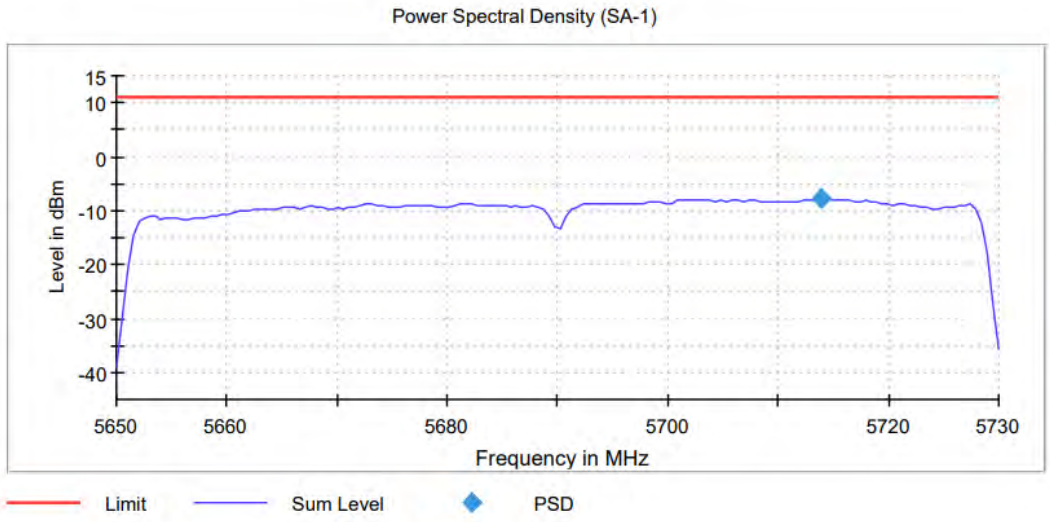

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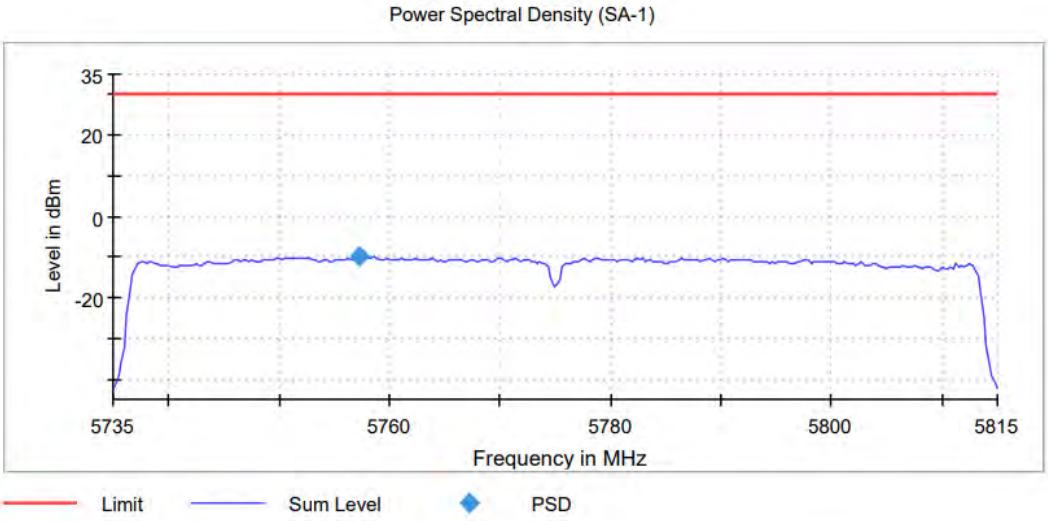

20M

RBW 1.000 MHz

VBW 3.000 MHz

40M

RBW 1.000 MHz

VBW 3.000 MHz

80M

RBW 1.000 MHz

VBW 3.000 MHz

160M

RBW 1.000 MHz

VBW 3.000 MHz

BAND4

20M

RBW 500.000 kHz

VBW 2.000 MHz

40M

RBW 500.000 kHz

VBW 2.000 MHz

80M

RBW 500.000 kHz

VBW 2.000 MHz

--END--