

Plot # 13 Radiated Emissions: 3-18 GHz

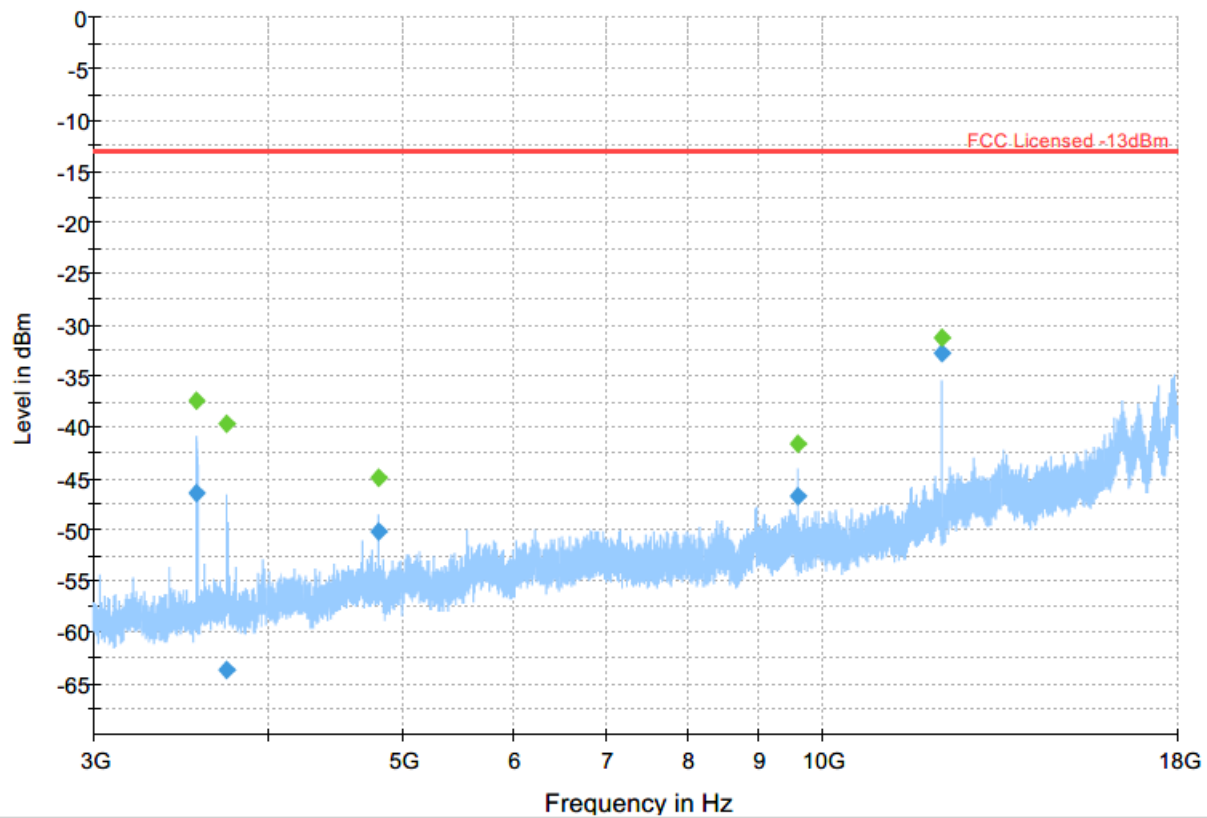
Channel: Low

Bandwidth: 400MHz

1 RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3560.250	---	-37.41	---	---	500.0	1000.000	150.0	V	251.0	-101.8
3560.250	-46.47	---	-13.00	33.47	500.0	1000.000	150.0	V	251.0	-101.8
3737.250	---	-39.65	---	---	500.0	1000.000	300.0	H	357.0	-101.0
3737.250	-63.63	---	-13.00	50.63	500.0	1000.000	300.0	H	357.0	-101.0
4799.750	---	-44.91	---	---	500.0	1000.000	206.0	H	302.0	-98.4
4799.750	-50.13	---	-13.00	37.13	500.0	1000.000	206.0	H	302.0	-98.4
9599.750	---	-41.66	---	---	500.0	1000.000	135.0	V	294.0	-93.7
9599.750	-46.69	---	-13.00	33.69	500.0	1000.000	135.0	V	294.0	-93.7
12200.000	---	-31.30	---	---	500.0	1000.000	169.0	H	148.0	-90.2
12200.000	-32.68	---	-13.00	19.68	500.0	1000.000	169.0	H	148.0	-90.2



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 14 Radiated Emissions: 18-40 GHz

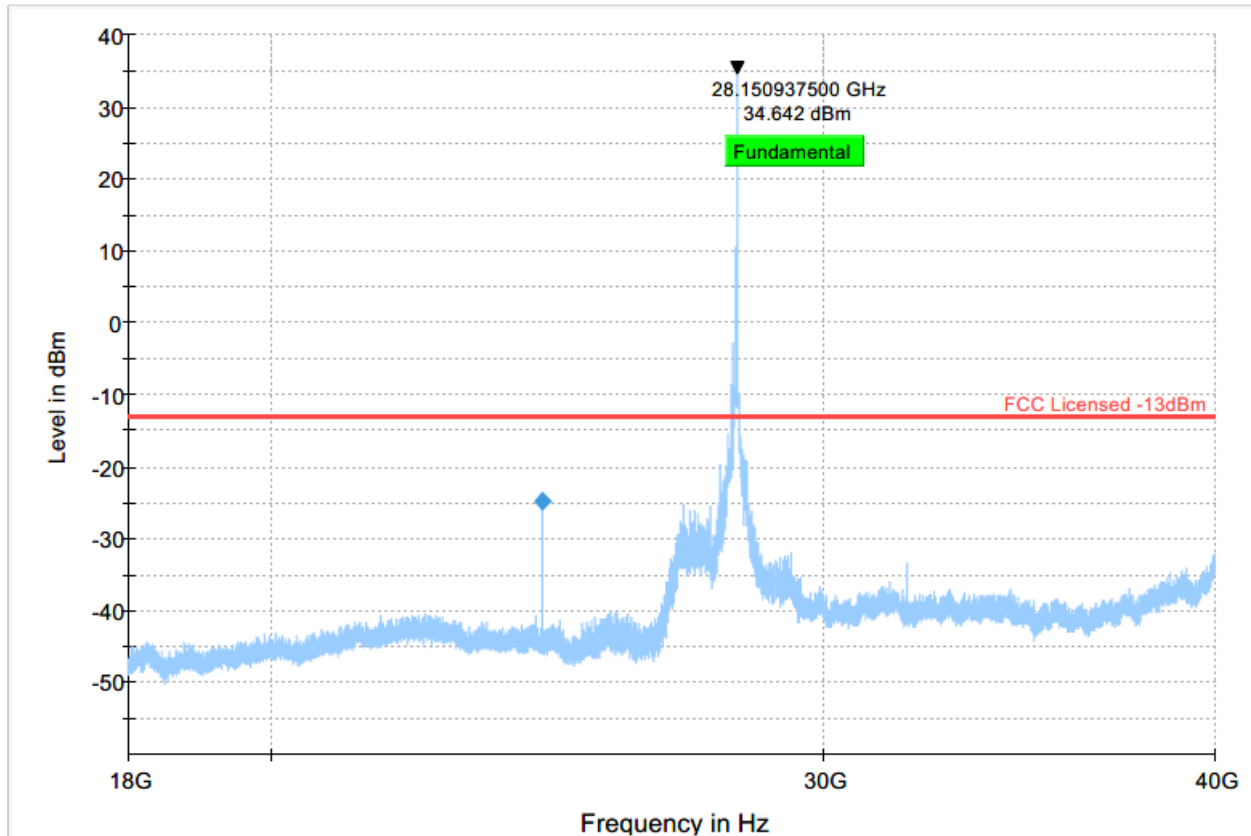
Channel: Low

Bandwidth: 400MHz

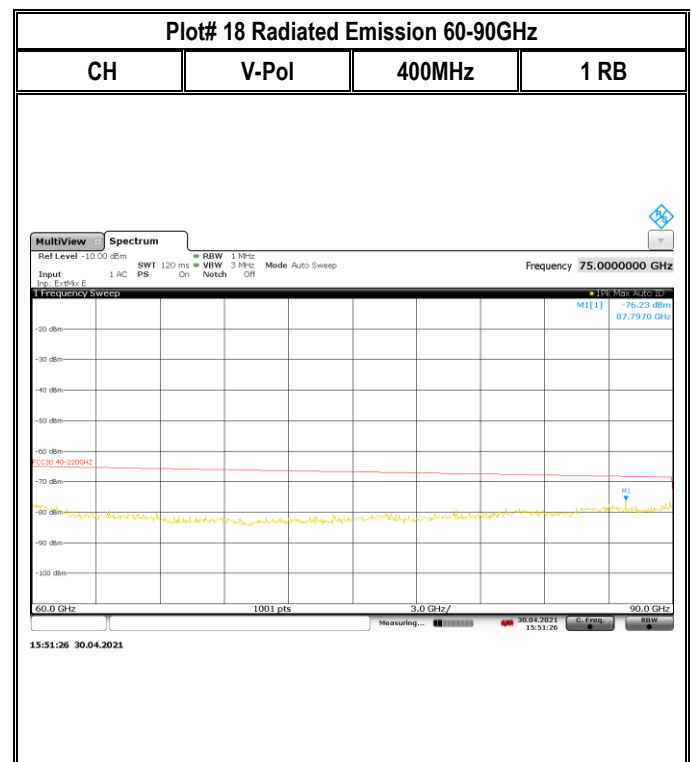
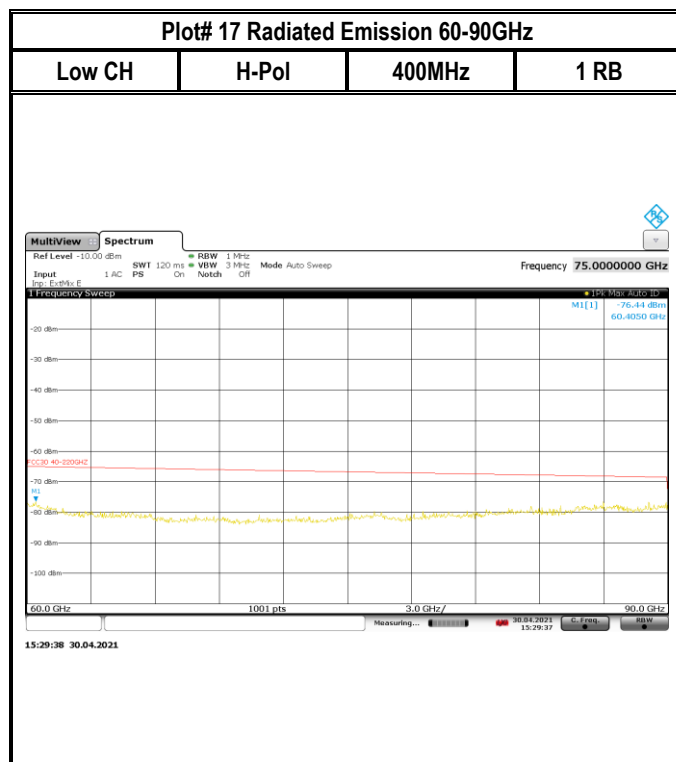
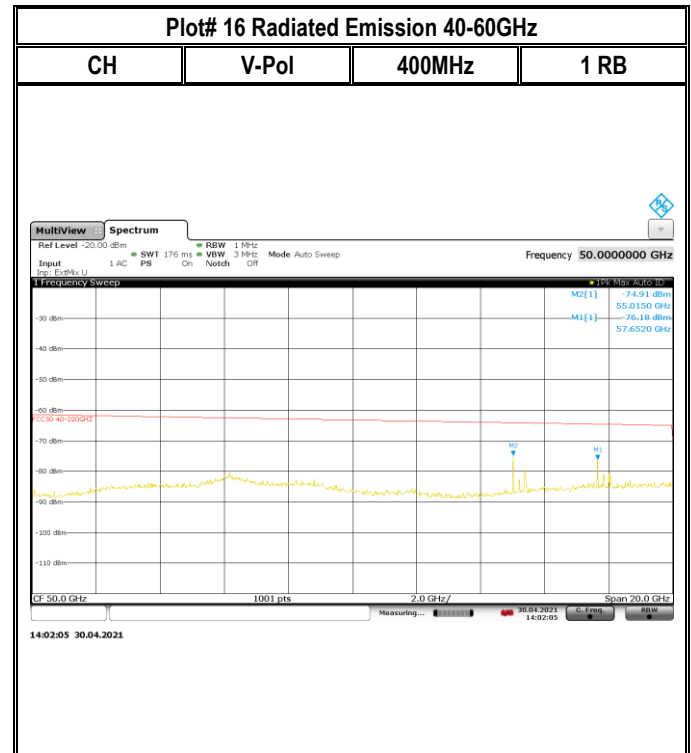
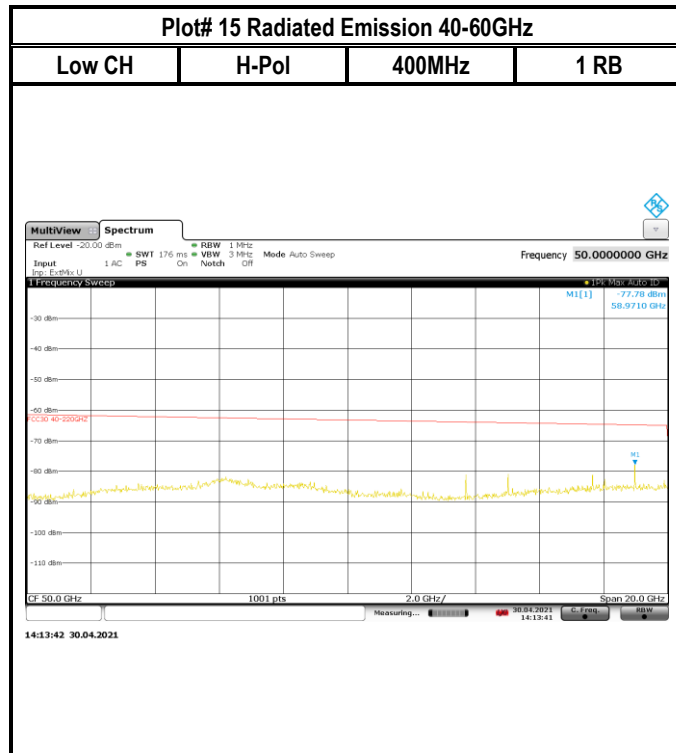
1 RB

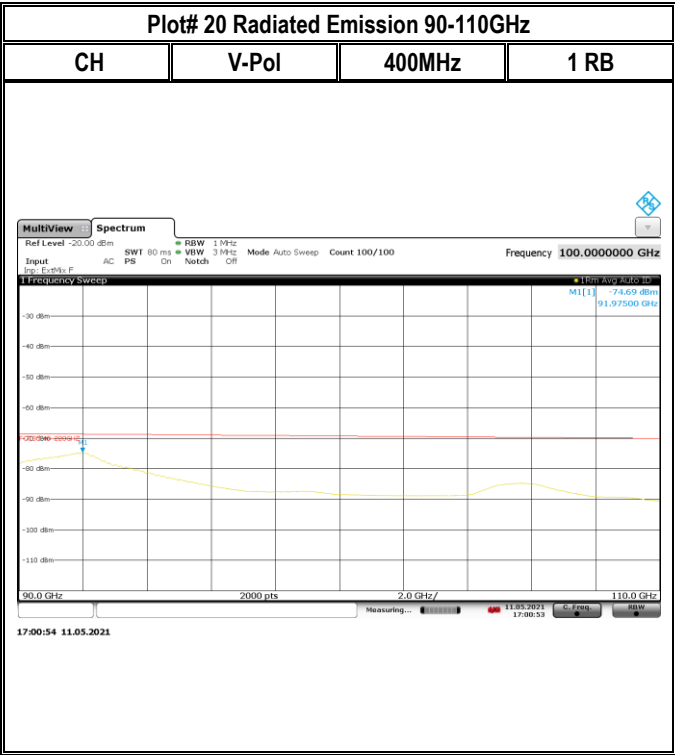
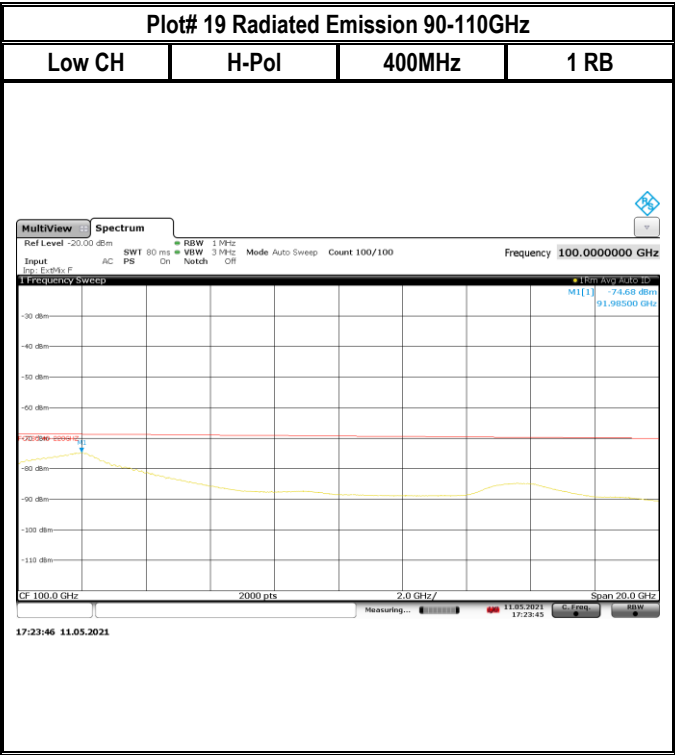
Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
24399.938	-24.90	---	-13.00	11.90	500.0	1000.000	100.0	H	6.0	-78.0



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+





Plot # 21 Radiated Emissions: 30 MHz – 1GHz

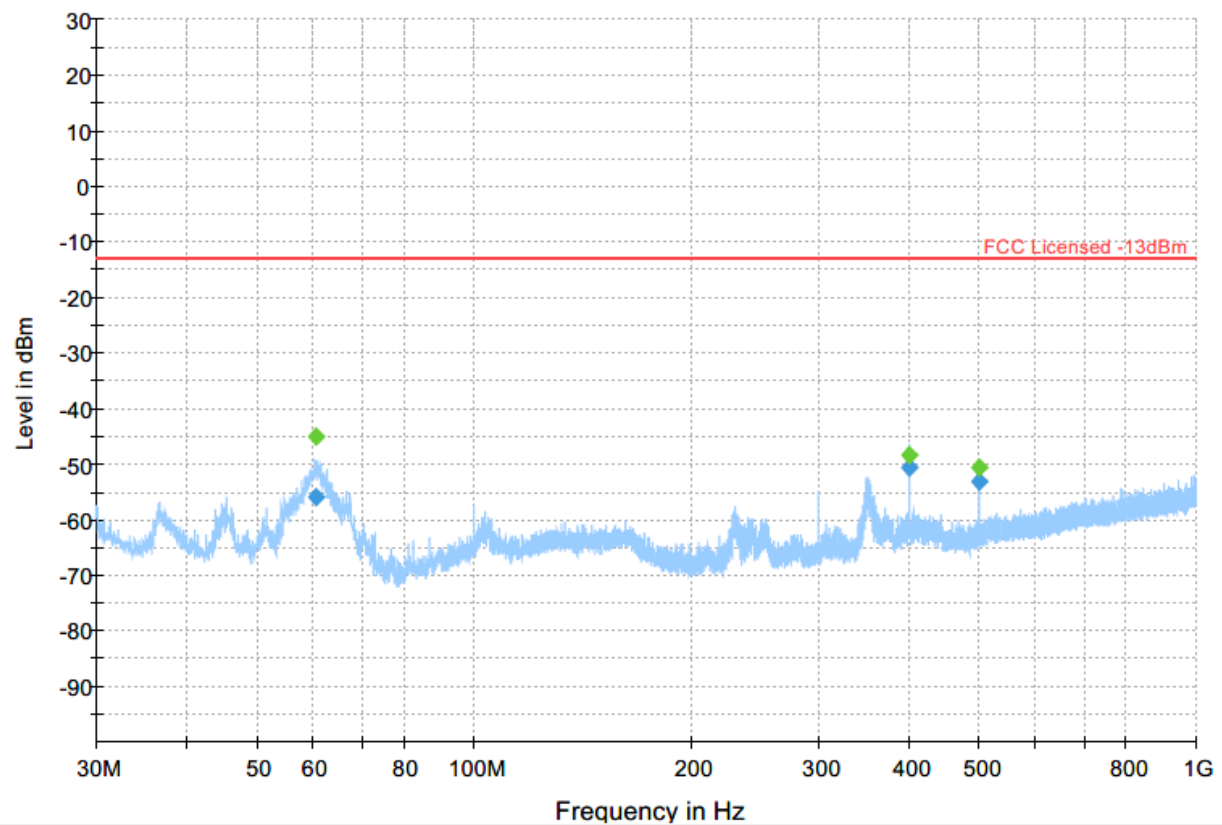
Channel: Low

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.434	---	-45.15	---	---	500.0	100.000	202.0	V	357.0	-88.1
60.434	-55.88	---	-13.00	42.88	500.0	100.000	202.0	V	357.0	-88.1
399.982	---	-48.43	---	---	500.0	100.000	100.0	V	56.0	-77.6
399.982	-50.56	---	-13.00	37.56	500.0	100.000	100.0	V	56.0	-77.6
499.989	---	-50.51	---	---	500.0	100.000	107.0	H	233.0	-75.3
499.989	-53.09	---	-13.00	40.09	500.0	100.000	107.0	H	233.0	-75.3



Preview Result 1-PK+

FCC Licensed -13dBm

Final_Result RMS

Final_Result PK+

Plot # 22 Radiated Emissions: 1-3 GHz

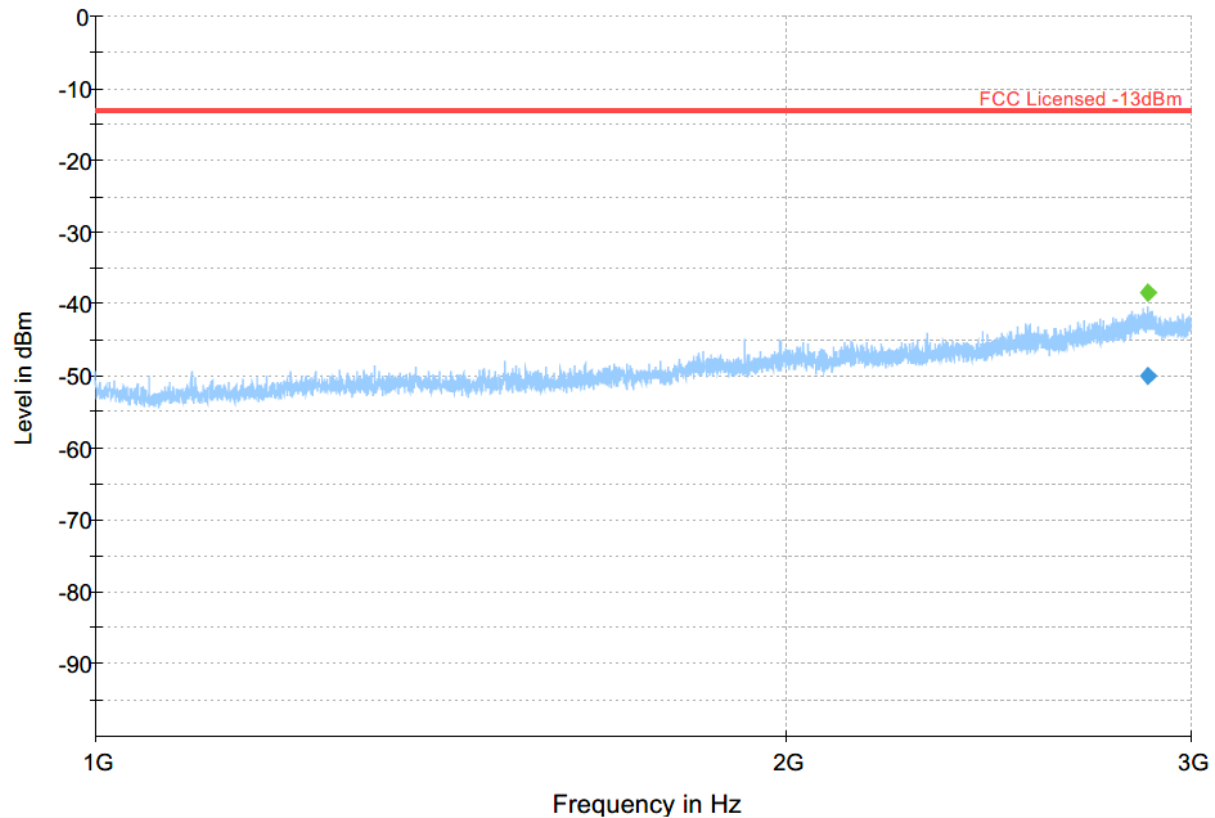
Channel: Low

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2874.250	---	-38.47	---	---	500.0	1000.000	116.0	V	205.0	-60.6
2874.250	-50.02	---	-13.00	37.02	500.0	1000.000	116.0	V	205.0	-60.6



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 23 Radiated Emissions: 3-18 GHz

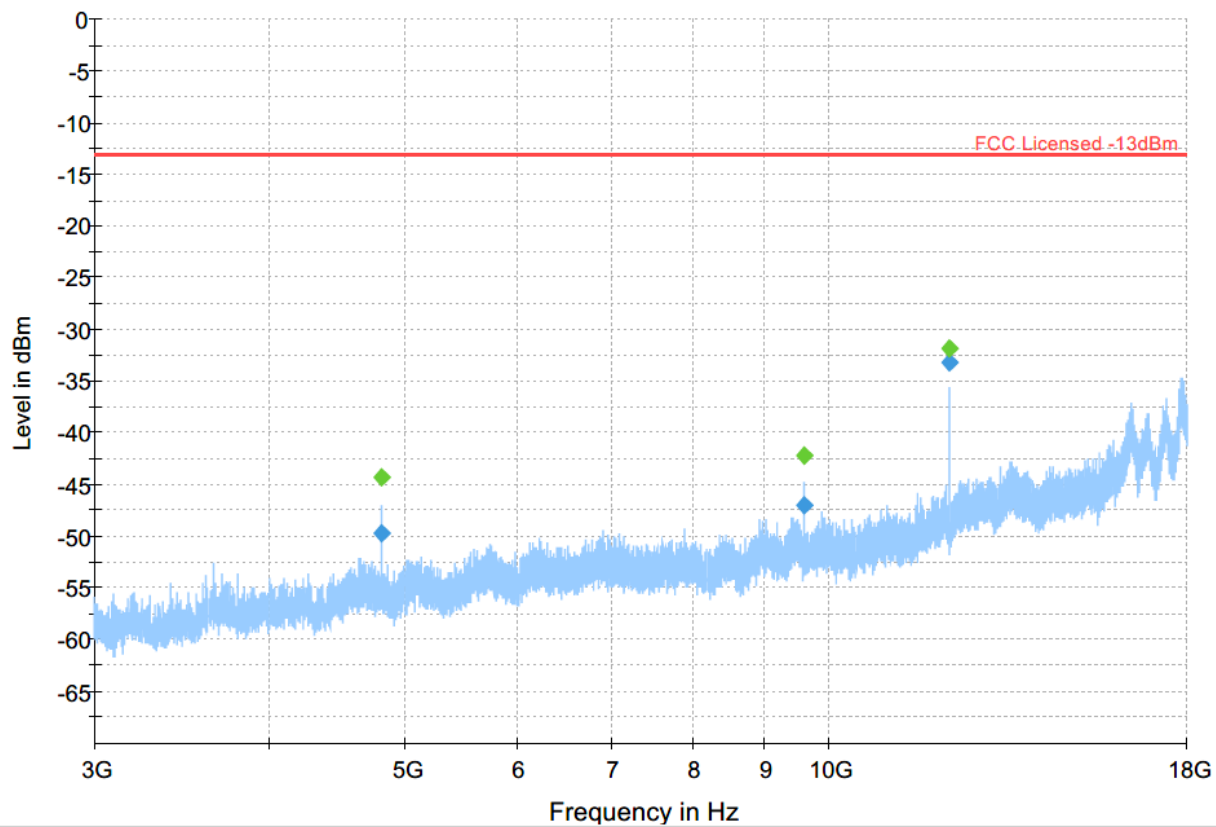
Channel: Low

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4799.750	---	-44.39	---	---	500.0	1000.000	208.0	H	303.0	-98.4
4799.750	-49.78	---	-13.00	36.78	500.0	1000.000	208.0	H	303.0	-98.4
9599.750	---	-42.24	---	---	500.0	1000.000	134.0	V	294.0	-93.7
9599.750	-46.95	---	-13.00	33.95	500.0	1000.000	134.0	V	294.0	-93.7
12200.000	---	-31.81	---	---	500.0	1000.000	170.0	H	145.0	-90.2
12200.000	-33.21	---	-13.00	20.21	500.0	1000.000	170.0	H	145.0	-90.2



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 24 Radiated Emissions: 18-40 GHz

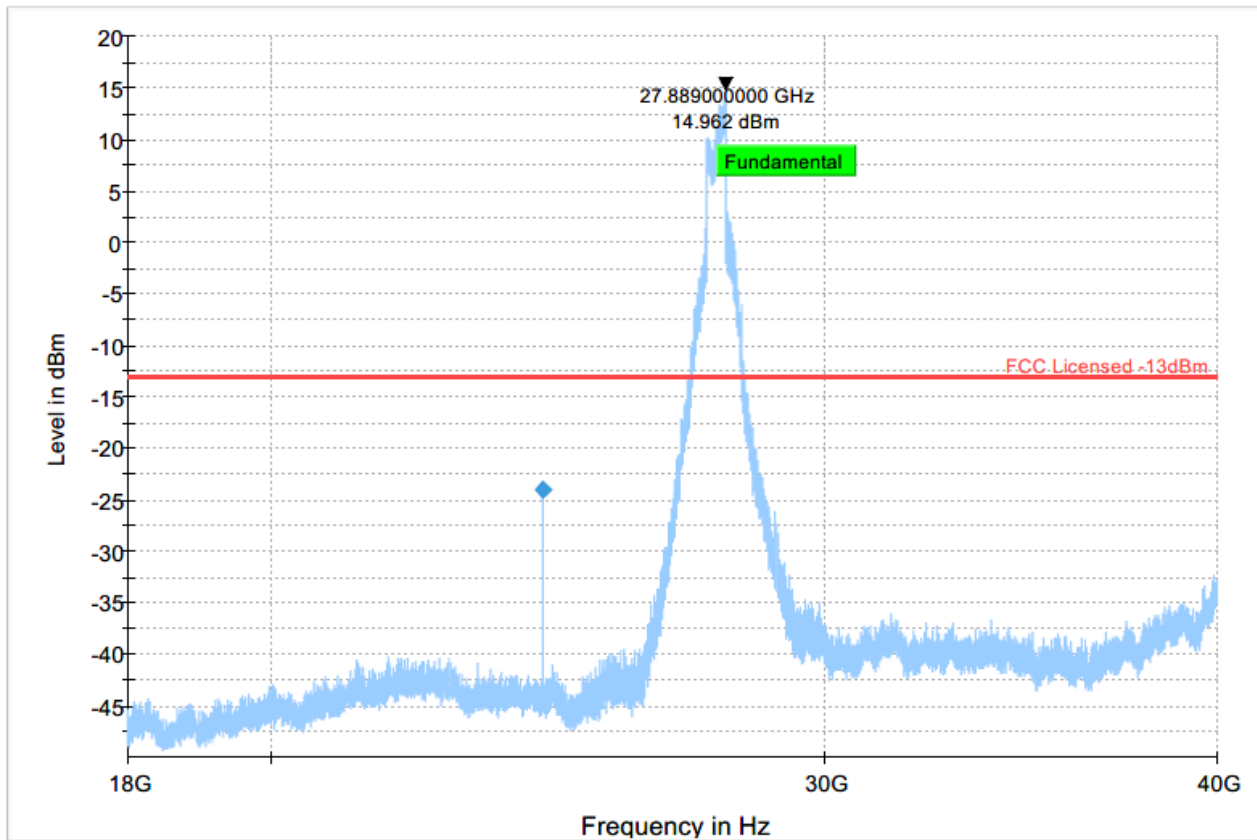
Channel: Low

Bandwidth: 400MHz

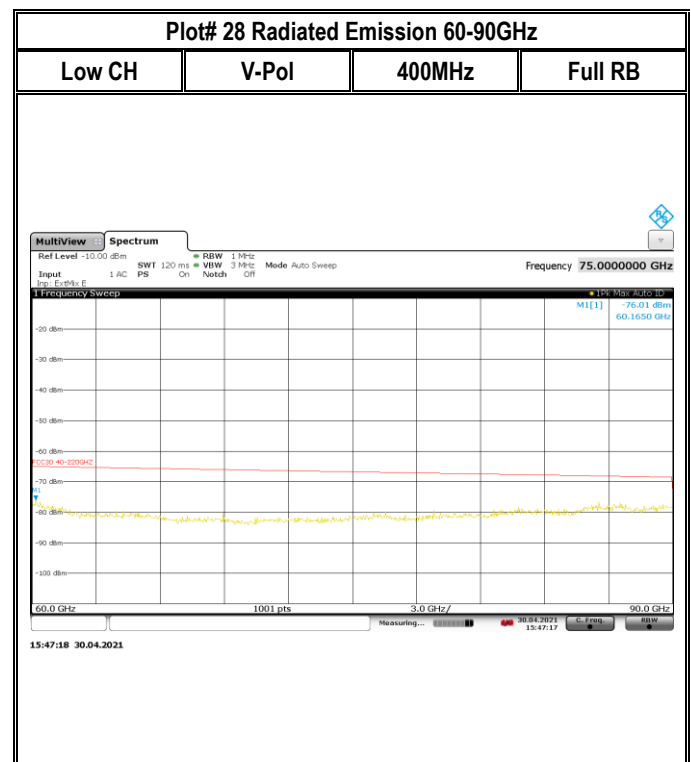
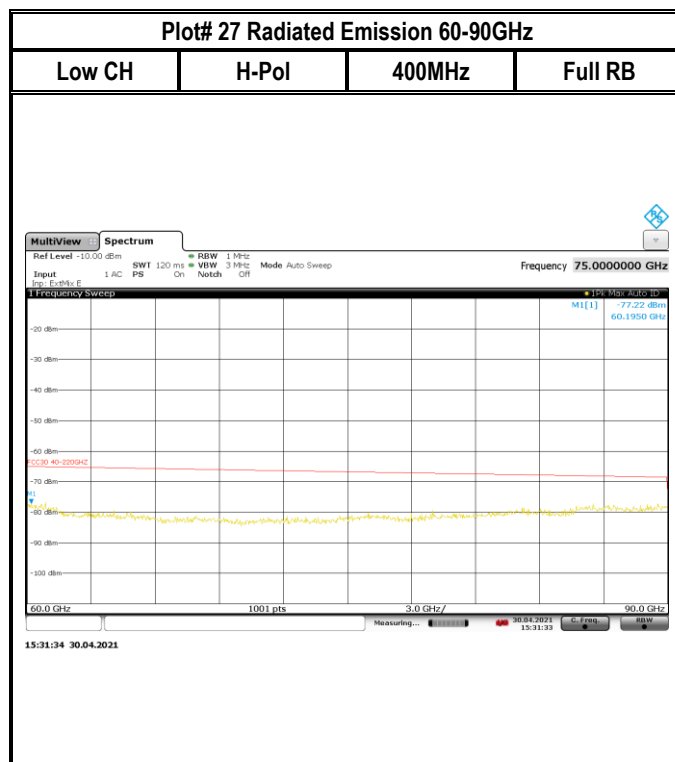
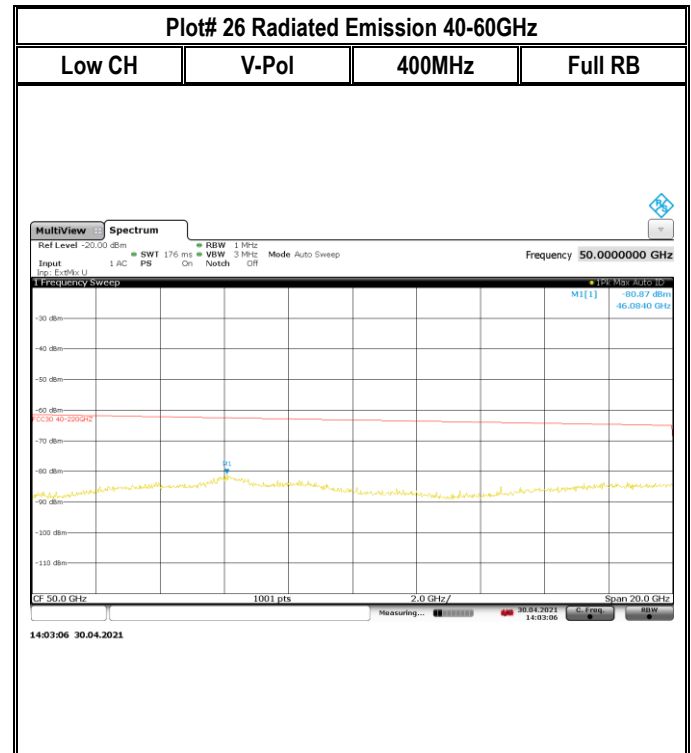
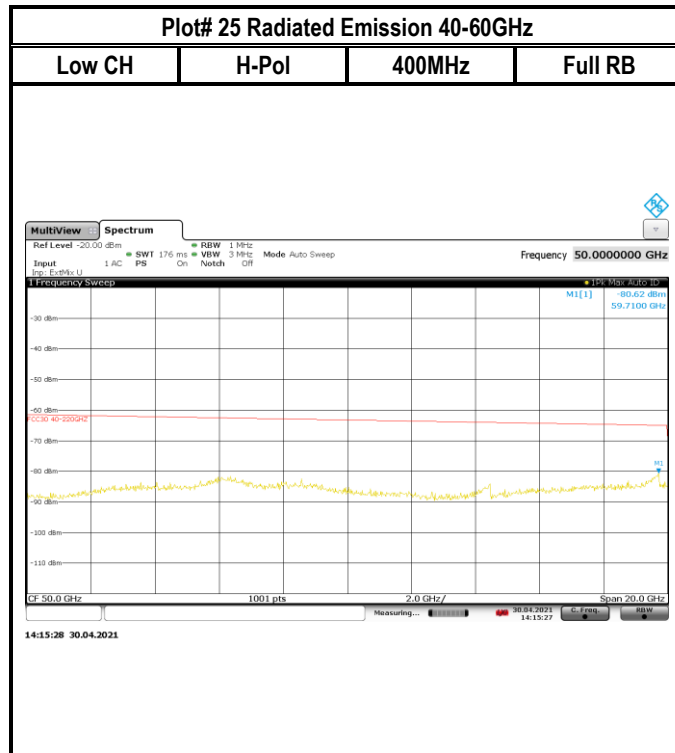
Full RB

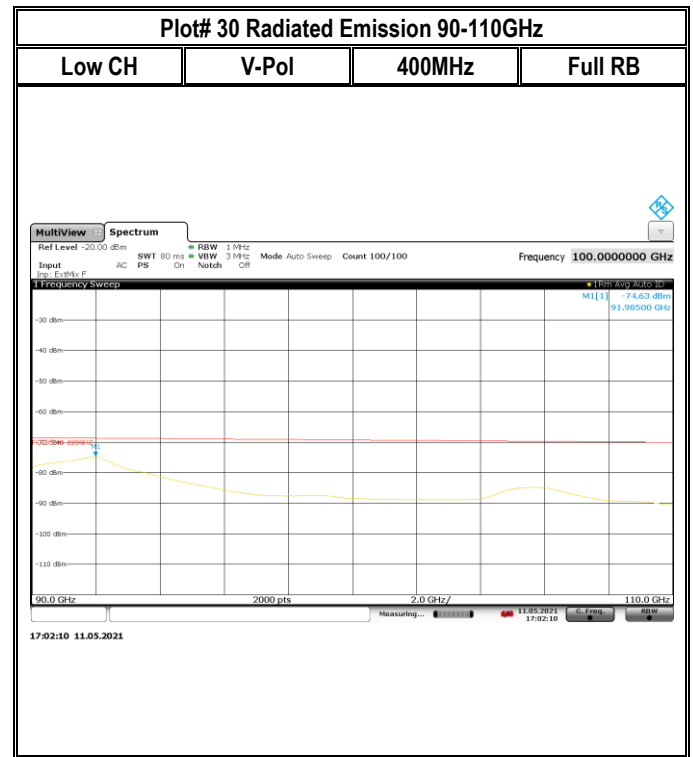
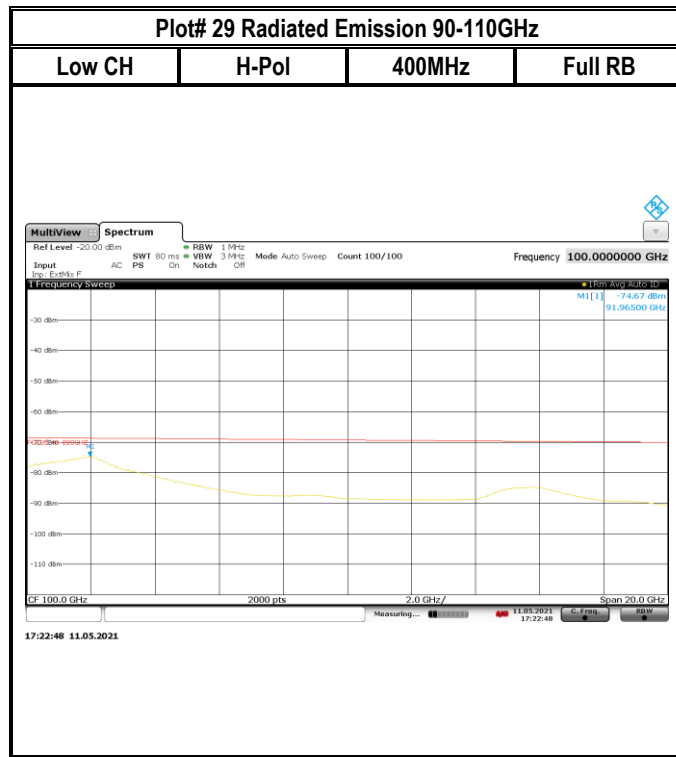
Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
24399.938	-24.04	---	-13.00	11.04	500.0	1000.000	100.0	H	8.0	-78.0



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+





Plot # 31 Radiated Emissions: 9kHz - 30 MHz

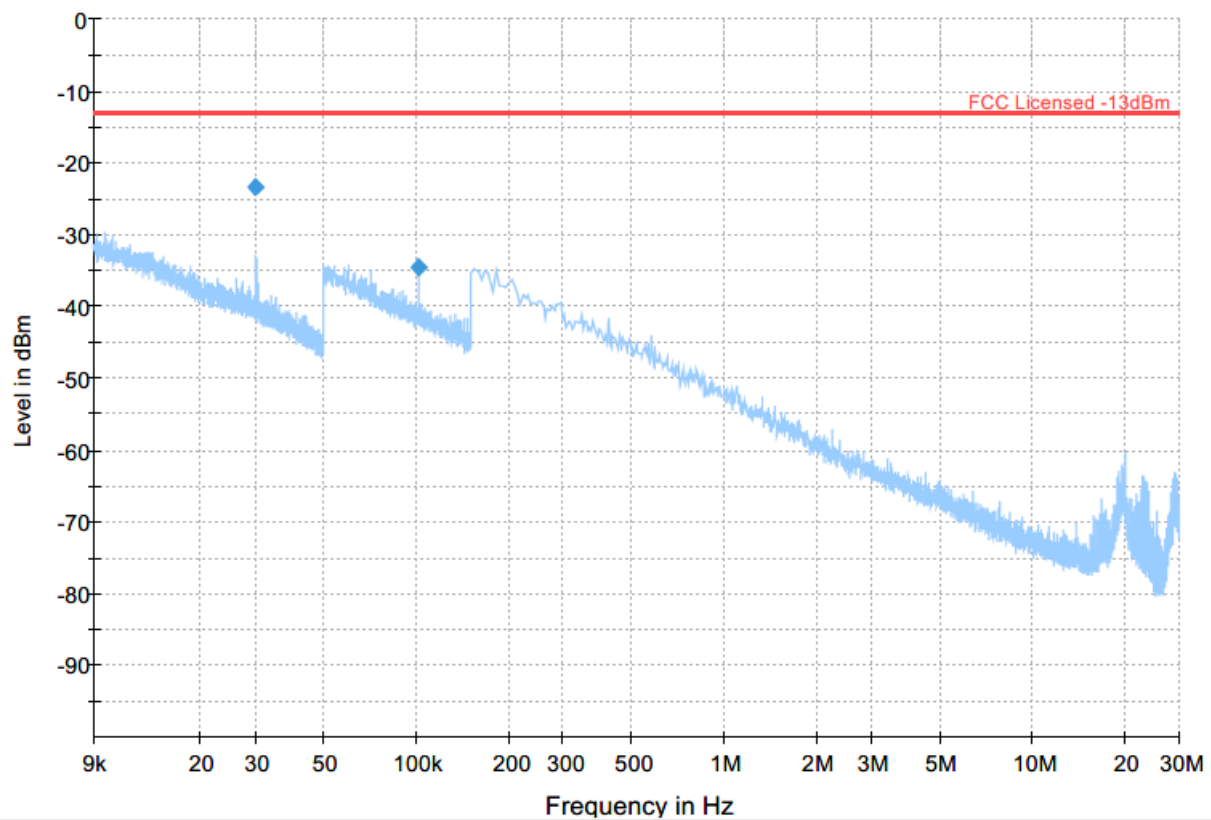
Channel: Mid

Bandwidth: 50MHz

1 RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.030	-23.42	---	-13.00	10.42	500.0	1.000	105.0	H	168.0	-72.1
0.102	-34.60	---	-13.00	21.60	500.0	1.000	100.0	V	42.0	-76.3



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 32 Radiated Emissions: 30 MHz – 1GHz

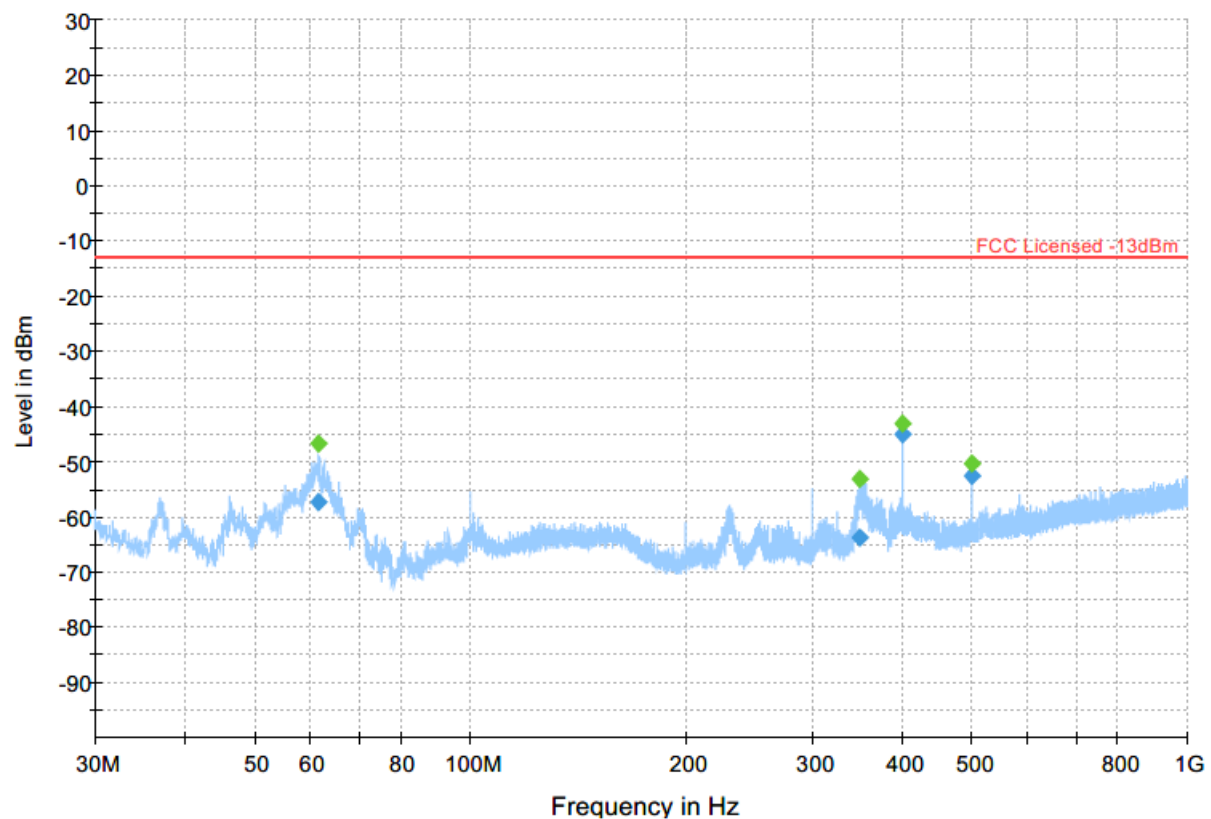
Channel: Low

Bandwidth: 50MHz

1 RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.574	---	-46.69	---	---	500.0	100.000	100.0	V	206.0	-88.1
61.574	-57.40	---	-13.00	44.40	500.0	100.000	100.0	V	206.0	-88.1
349.688	---	-53.10	---	---	500.0	100.000	160.0	H	167.0	-79.2
349.688	-63.71	---	-13.00	50.71	500.0	100.000	160.0	H	167.0	-79.2
399.982	---	-43.23	---	---	500.0	100.000	100.0	H	324.0	-77.2
399.982	-45.16	---	-13.00	32.16	500.0	100.000	100.0	H	324.0	-77.2
499.989	---	-50.42	---	---	500.0	100.000	100.0	H	242.0	-75.3
499.989	-52.67	---	-13.00	39.67	500.0	100.000	100.0	H	242.0	-75.3



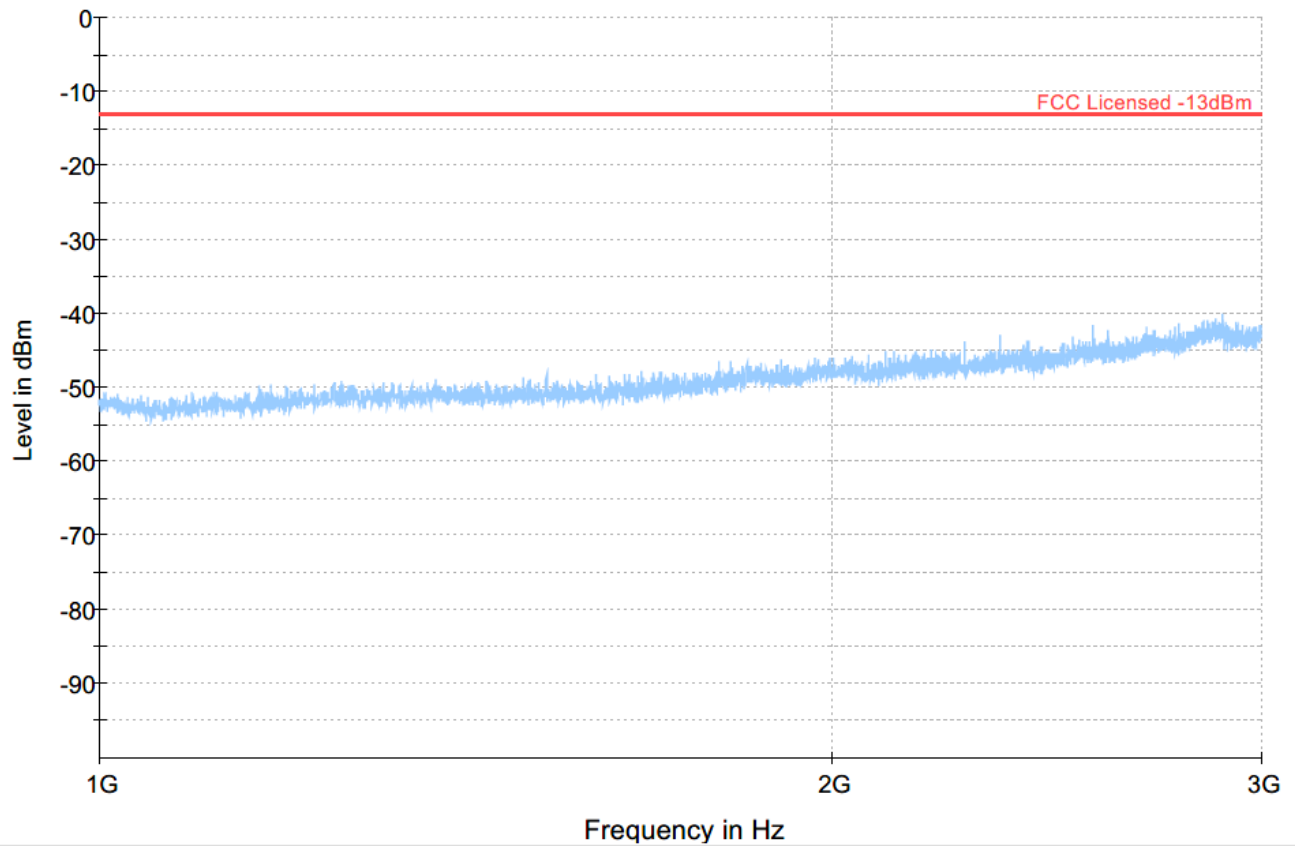
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 33 Radiated Emissions: 1-3 GHz

Channel: Mid

Bandwidth: 50MHz

1 RB

◆ Preview Result 1-PK+
Final_Result RMS* Critical_Freqs PK+
◆ Final_Result PK+

— FCC Licensed -13dBm

Plot # 34 Radiated Emissions: 3-18 GHz

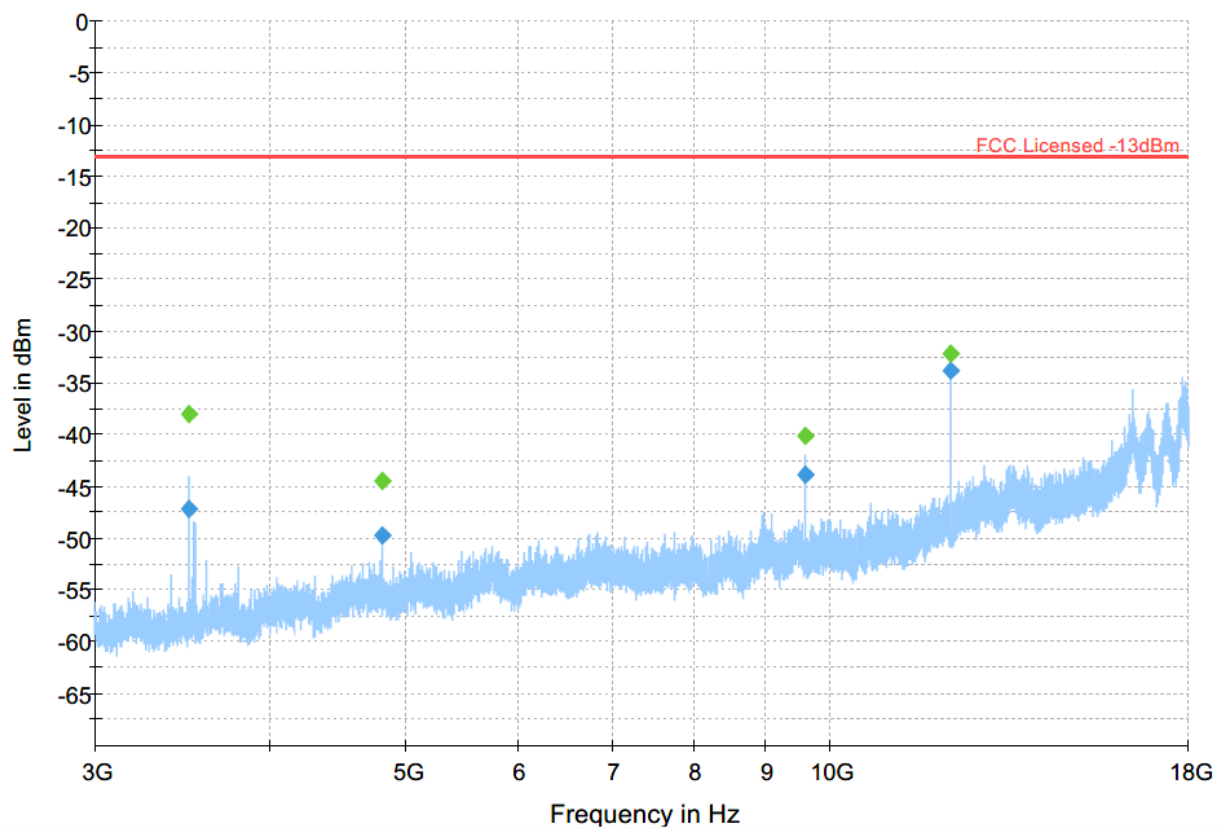
Channel: Mid

Bandwidth: 50MHz

1 RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3502.250	---	-37.97	---	---	500.0	1000.000	204.0	V	169.0	-102.2
3502.250	-47.09	---	-13.00	34.09	500.0	1000.000	204.0	V	169.0	-102.2
4799.750	---	-44.39	---	---	500.0	1000.000	100.0	H	319.0	-98.4
4799.750	-49.66	---	-13.00	36.66	500.0	1000.000	100.0	H	319.0	-98.4
9600.000	---	-40.11	---	---	500.0	1000.000	325.0	H	336.0	-93.7
9600.000	-43.83	---	-13.00	30.83	500.0	1000.000	325.0	H	336.0	-93.7
12200.000	---	-32.12	---	---	500.0	1000.000	173.0	H	143.0	-90.2
12200.000	-33.75	---	-13.00	20.75	500.0	1000.000	173.0	H	143.0	-90.2



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 35 Radiated Emissions: 18-40 GHz

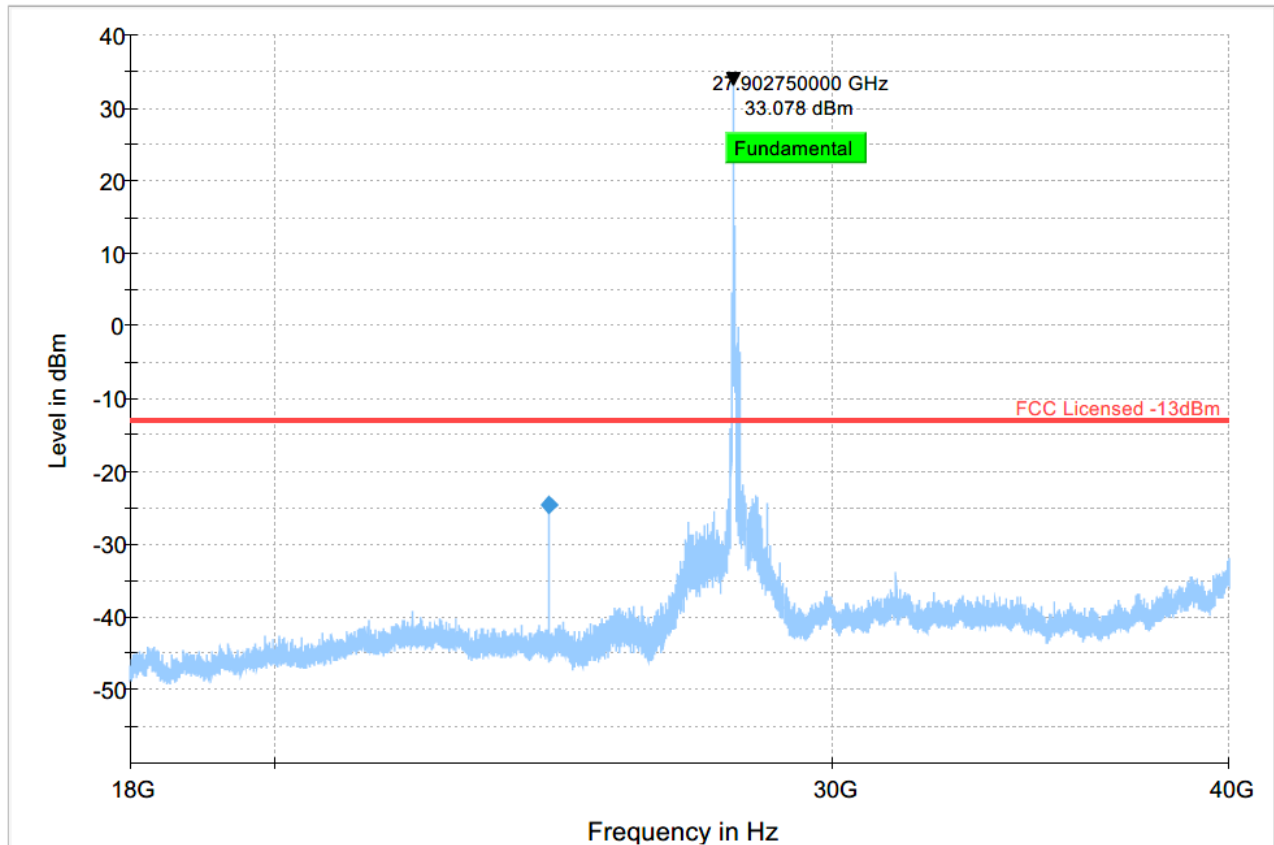
Channel: Mid

Bandwidth: 50MHz

1 RB

Final Result

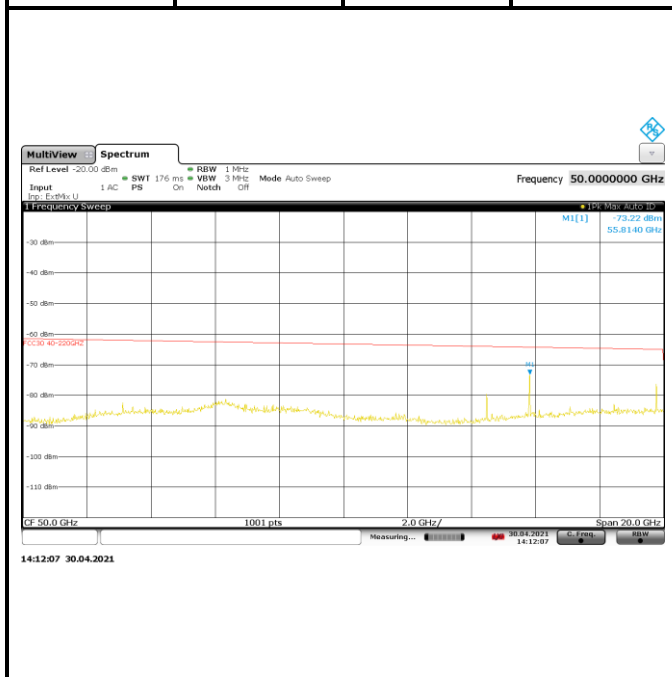
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
24399.938	-24.62	---	-13.00	11.62	500.0	1000.000	100.0	H	6.0	-78.0



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

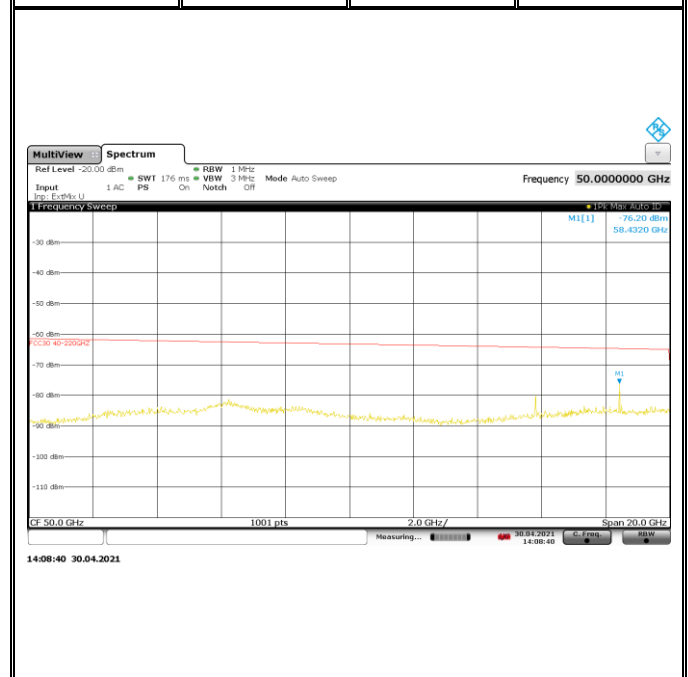
Plot# 36 Radiated Emission 40-60GHz

Mid CH H-Pol 50MHz 1 RB



Plot# 37 Radiated Emission 40-60GHz

Mid CH V-Pol 50MHz 1 RB



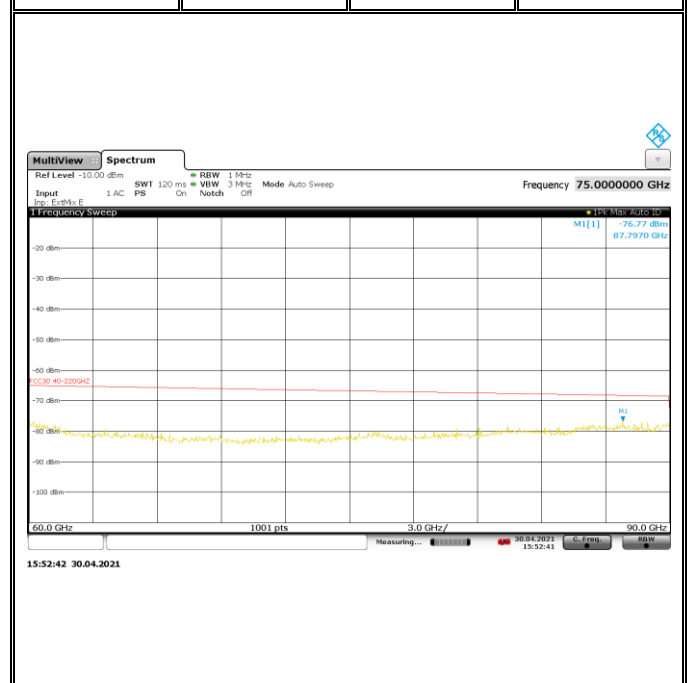
Plot# 38 Radiated Emission 60-90GHz

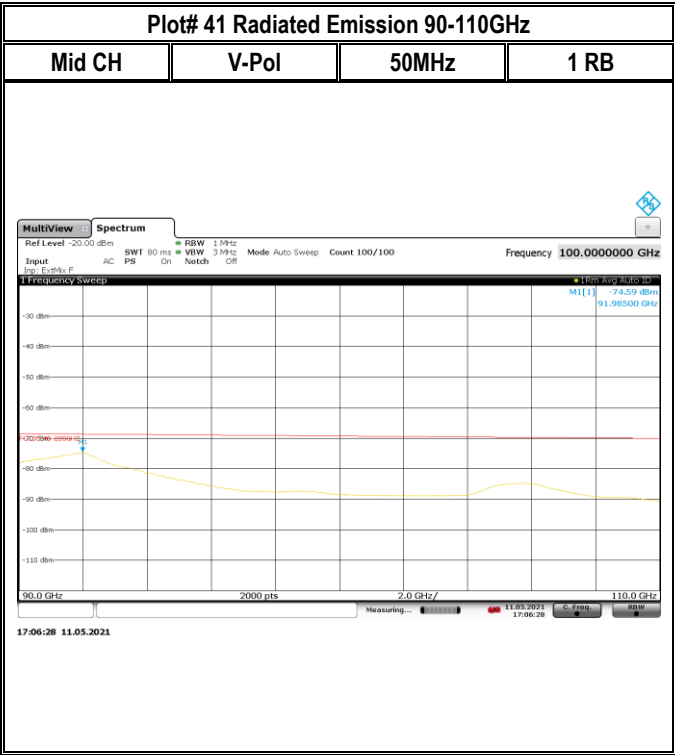
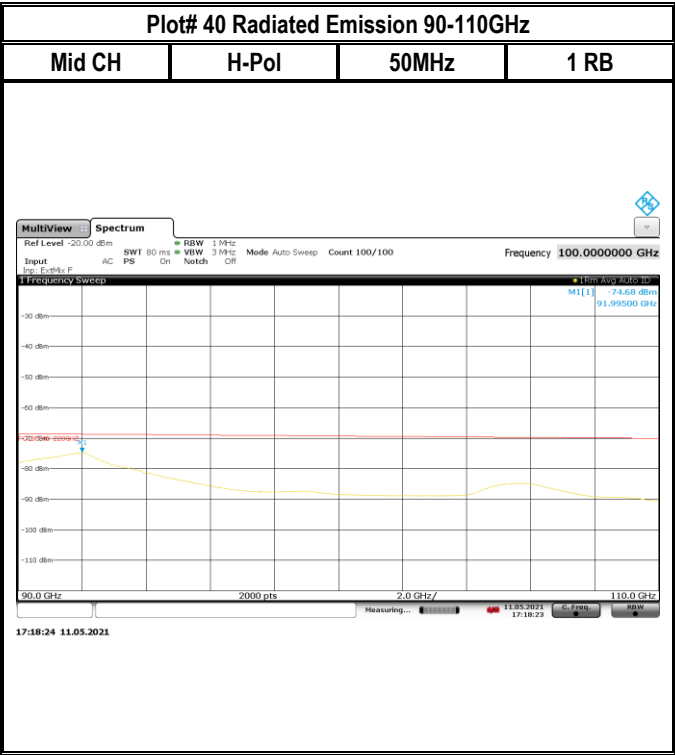
Mid CH H-Pol 50MHz 1 RB



Plot# 39 Radiated Emission 60-90GHz

Mid CH V-Pol 50MHz 1 RB





Plot # 42 Radiated Emissions: 9kHz – 30MHz

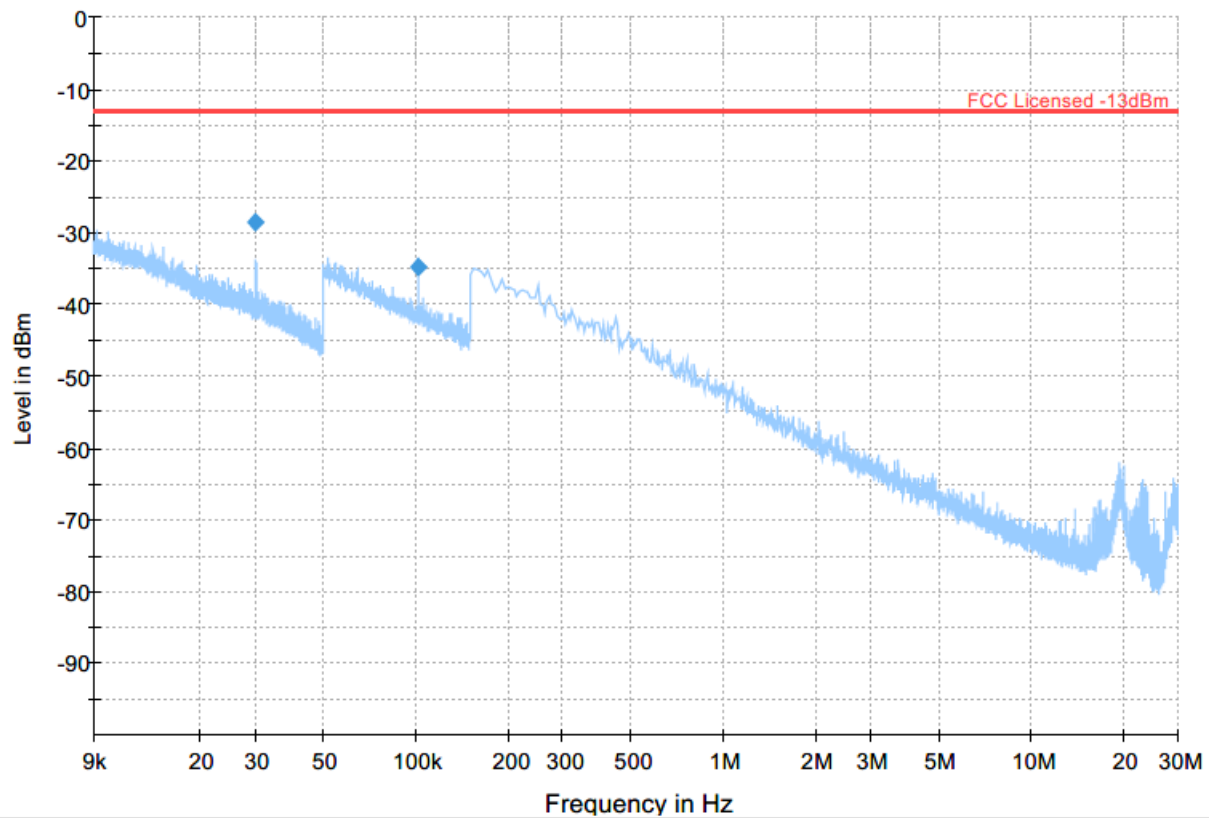
Channel: Mid

Bandwidth: 400MHz

1 RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.030	-28.50	---	-13.00	15.50	500.0	1.000	128.0	V	277.0	-72.1
0.102	-34.74	---	-13.00	21.74	500.0	1.000	100.0	V	0.0	-76.3



Preview Result 1-PK+

FCC Licensed -13dBm

Final_Result RMS

Final_Result PK+

Plot # 43 Radiated Emissions: 30 MHz – 1GHz

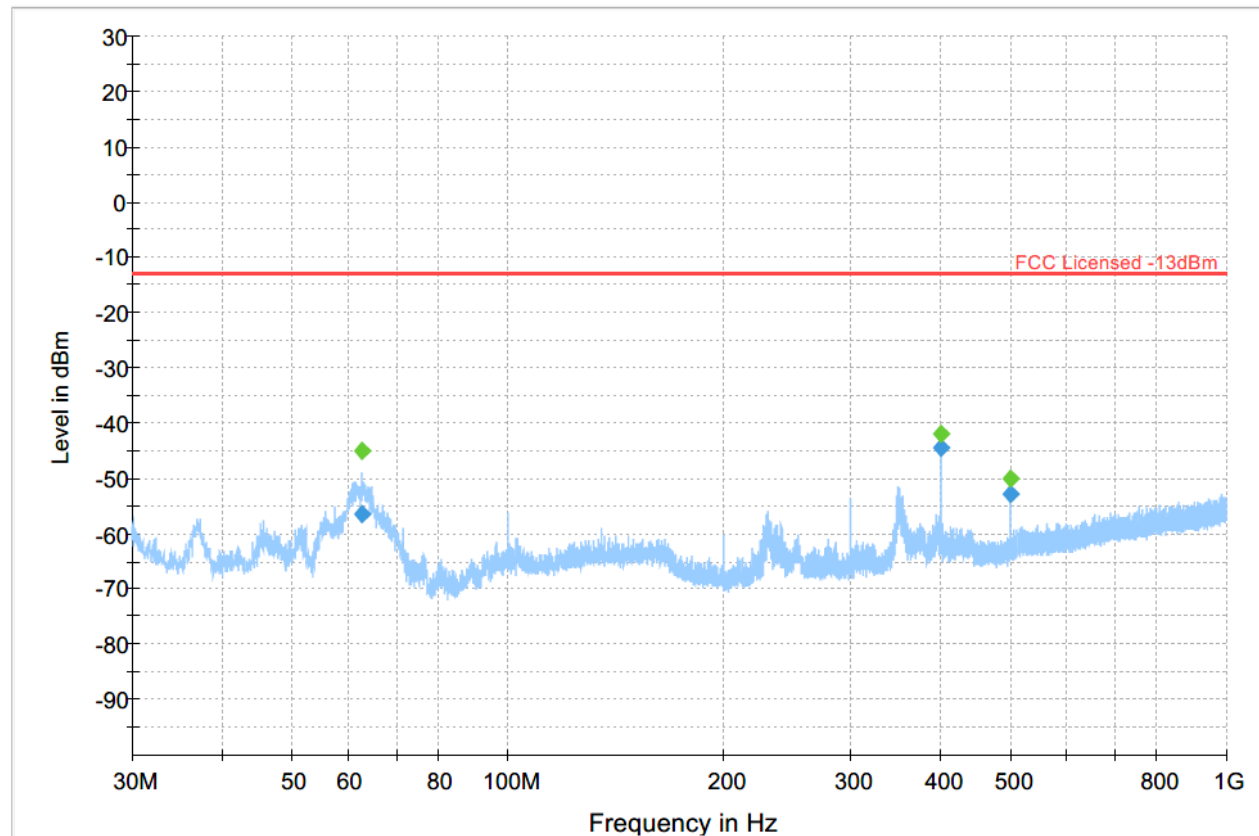
Channel: Mid

Bandwidth: 400MHz

1RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.786	---	-45.00	---	---	500.0	100.000	176.0	V	3.0	-88.1
62.786	-56.37	---	-13.00	43.37	500.0	100.000	176.0	V	3.0	-88.1
399.982	---	-42.08	---	---	500.0	100.000	125.0	H	313.0	-77.2
399.982	-44.38	---	-13.00	31.38	500.0	100.000	125.0	H	313.0	-77.2
499.989	---	-50.04	---	---	500.0	100.000	107.0	V	210.0	-75.5
499.989	-52.88	---	-13.00	39.88	500.0	100.000	107.0	V	210.0	-75.5



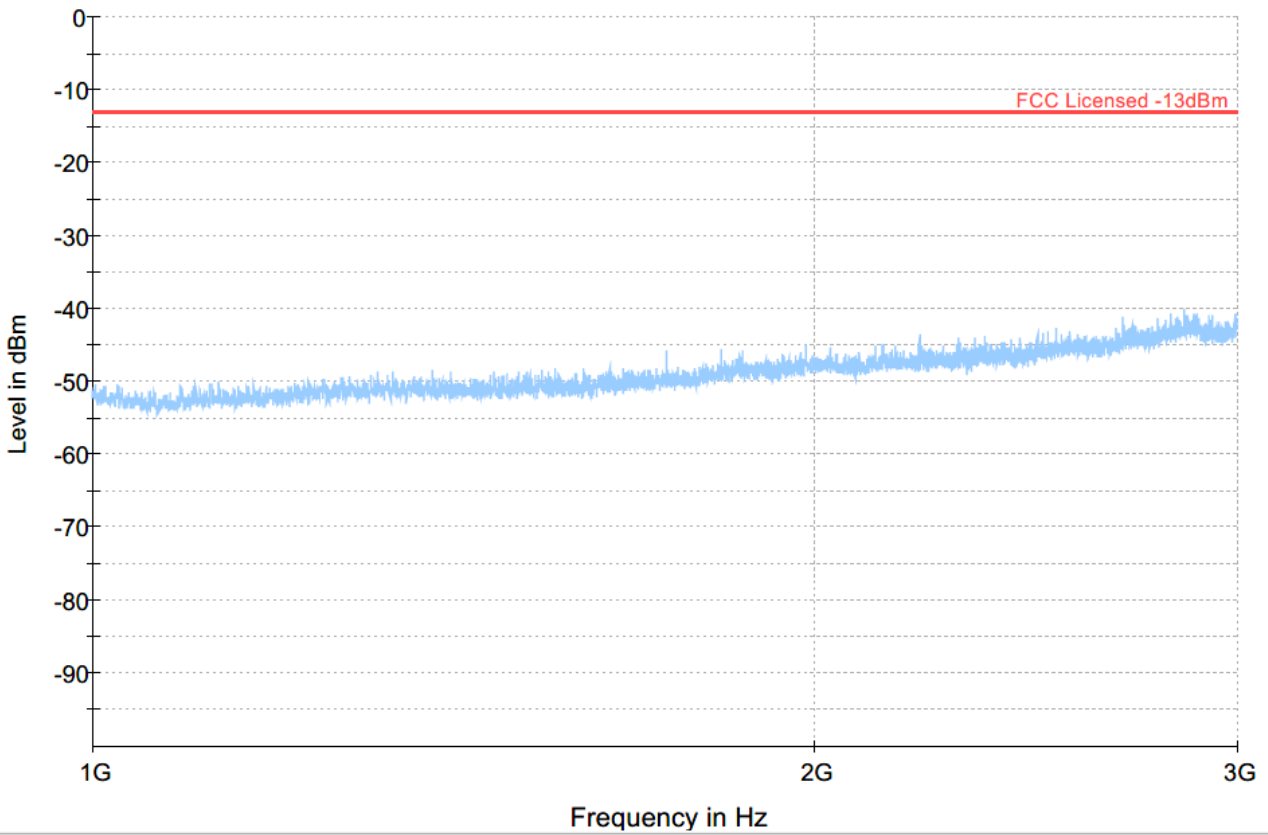
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 44 Radiated Emissions: 1-3 GHz

Channel: Mid

Bandwidth: 400MHz

1RB



Preview Result 1-PK+ * Critical_Freqs PK+ FCC Licensed -13dBm
Final_Result RMS Final_Result PK+

Plot # 45 Radiated Emissions: 3-18 GHz

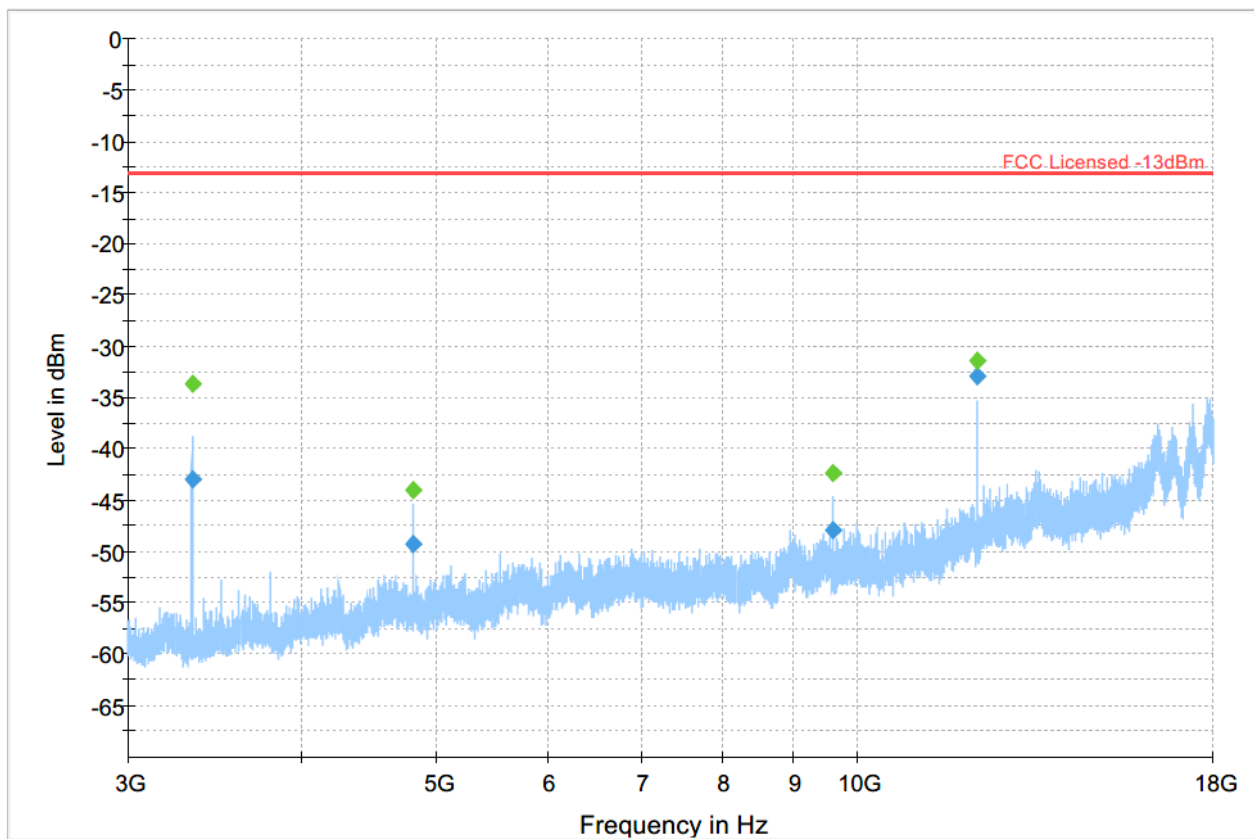
Channel: Mid

Bandwidth: 400MHz

1RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3335.750	---	-33.60	---	---	500.0	1000.000	116.0	V	242.0	-103.3
3335.750	-43.01	---	-13.00	30.01	500.0	1000.000	116.0	V	242.0	-103.3
4799.750	---	-44.00	---	---	500.0	1000.000	152.0	H	304.0	-98.4
4799.750	-49.26	---	-13.00	36.26	500.0	1000.000	152.0	H	304.0	-98.4
9600.000	---	-42.33	---	---	500.0	1000.000	238.0	V	262.0	-93.7
9600.000	-47.93	---	-13.00	34.93	500.0	1000.000	238.0	V	262.0	-93.7
12200.000	---	-31.46	---	---	500.0	1000.000	169.0	H	146.0	-90.2
12200.000	-32.90	---	-13.00	19.90	500.0	1000.000	169.0	H	146.0	-90.2



Plot # 46 Radiated Emissions: 18-40 GHz

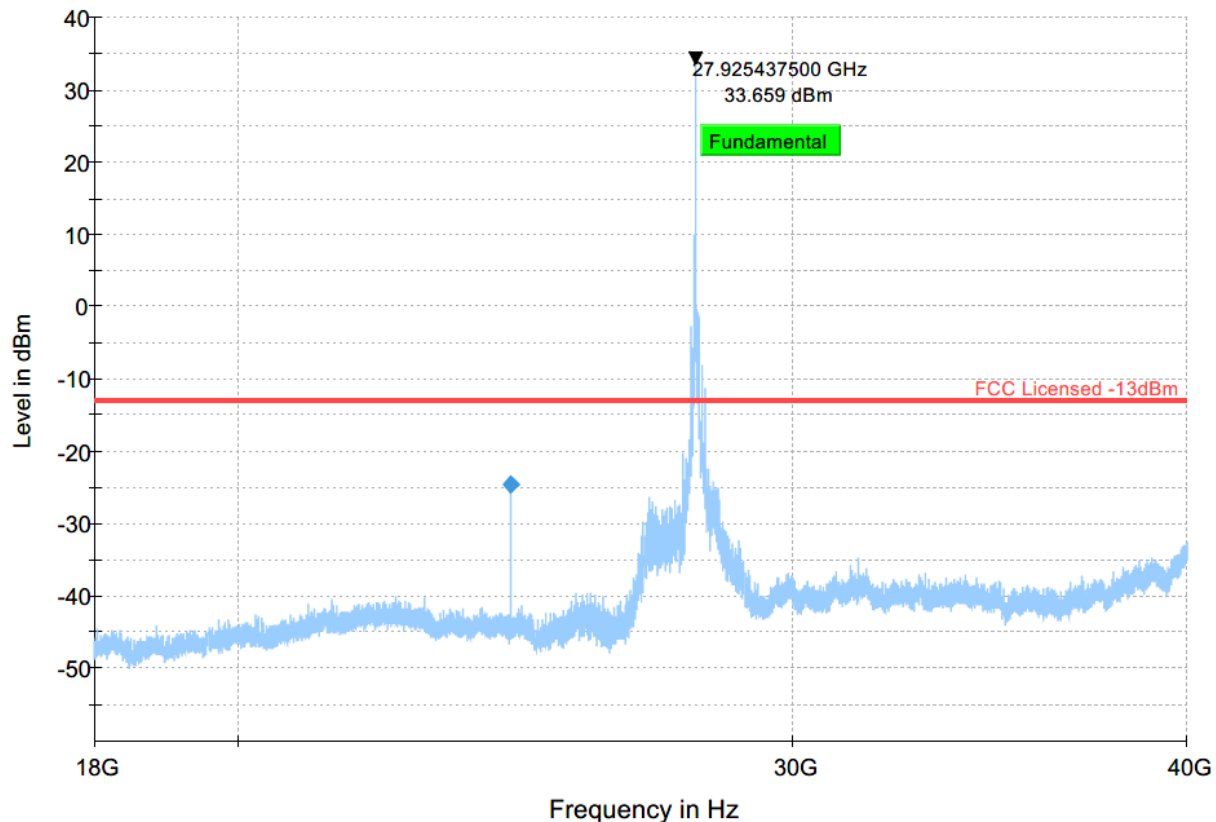
Channel: Mid

Bandwidth: 400MHz

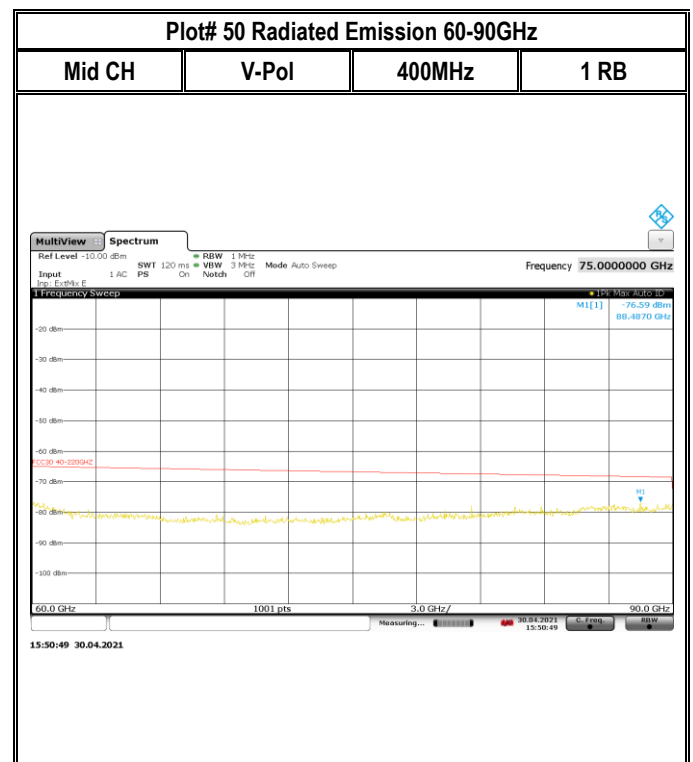
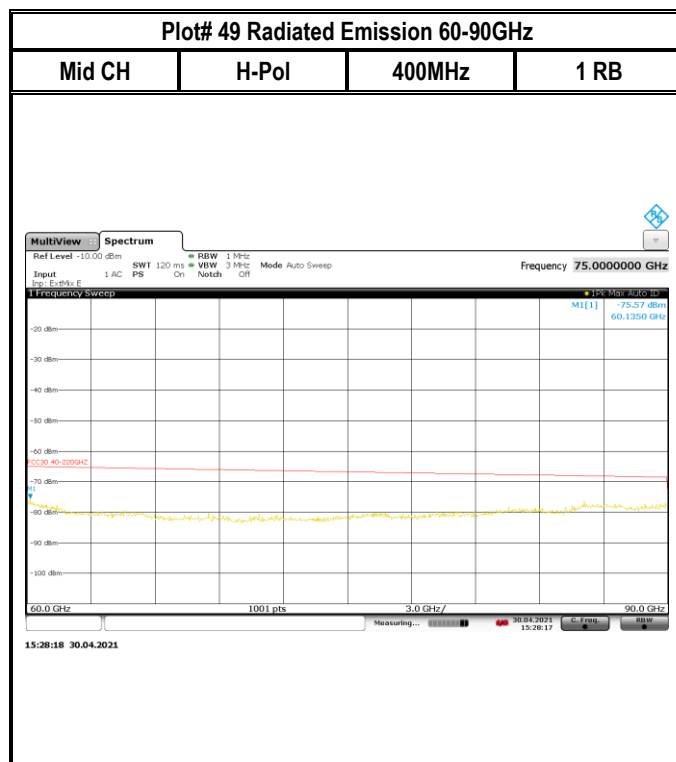
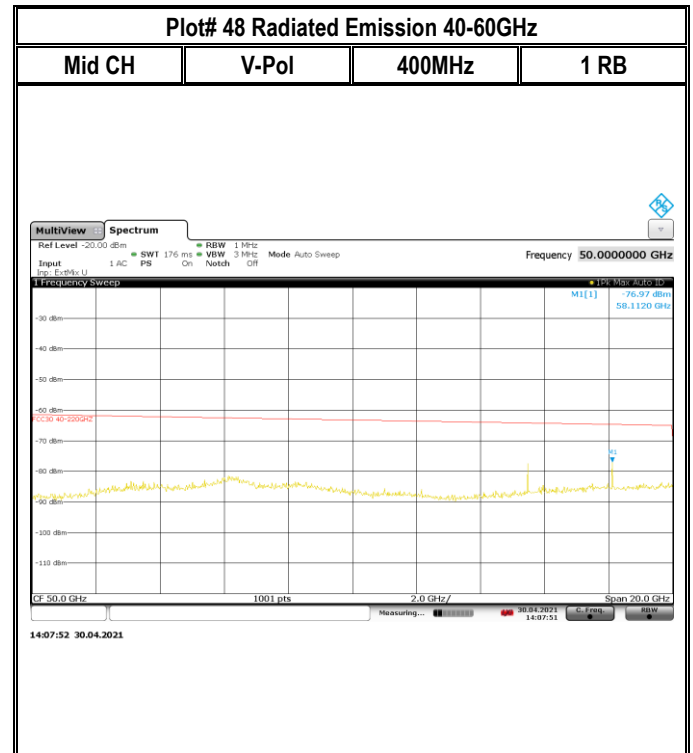
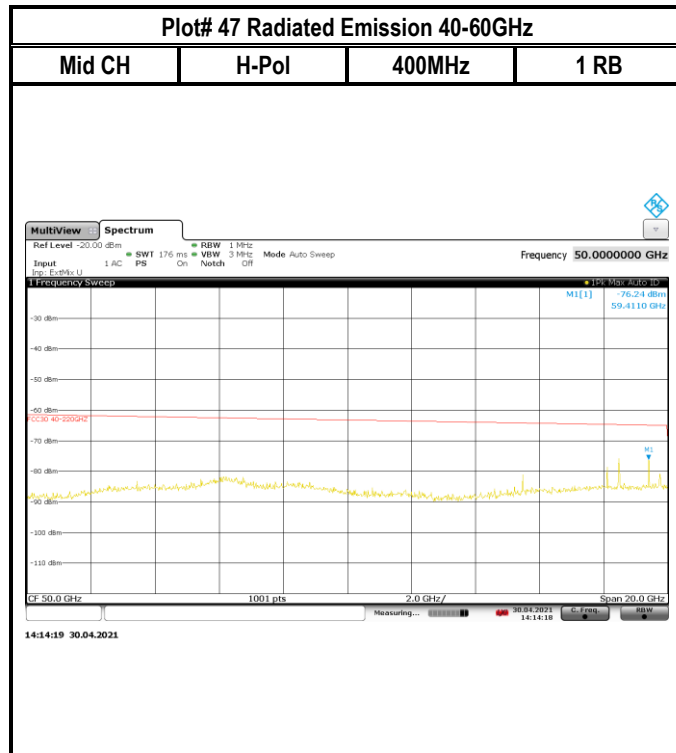
1RB

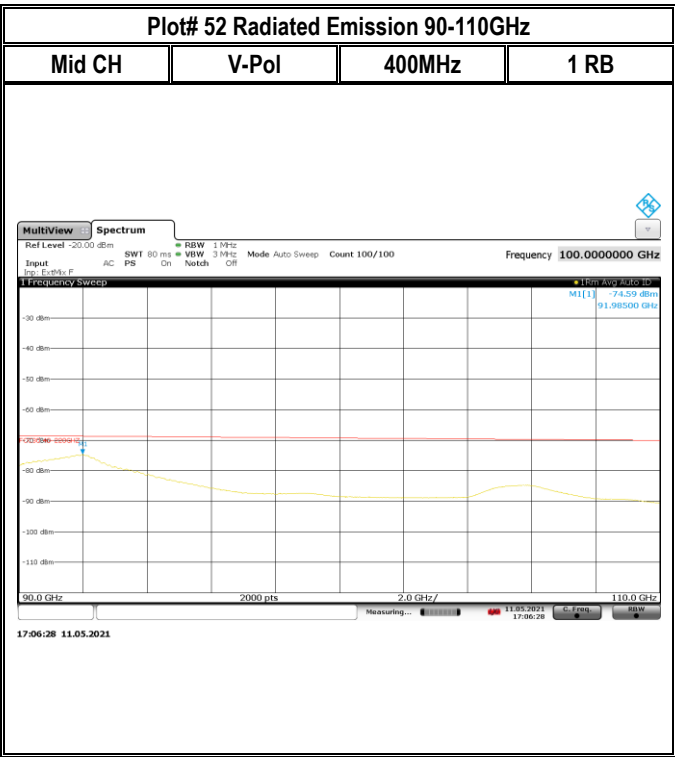
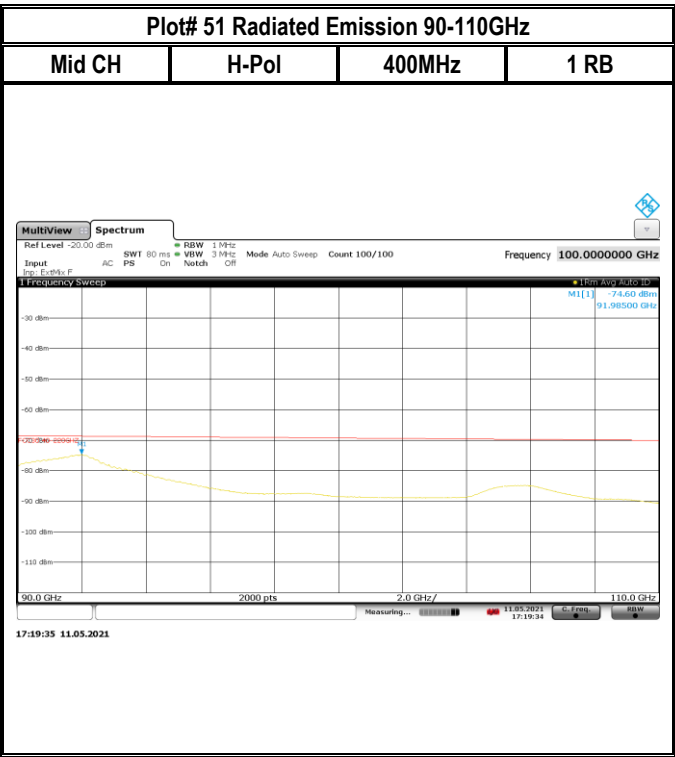
Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
24399.938	-24.69	---	-13.00	11.69	500.0	1000.000	100.0	H	7.0	-78.0



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+





Plot # 53 Radiated Emissions: 9 kHz – 30MHz

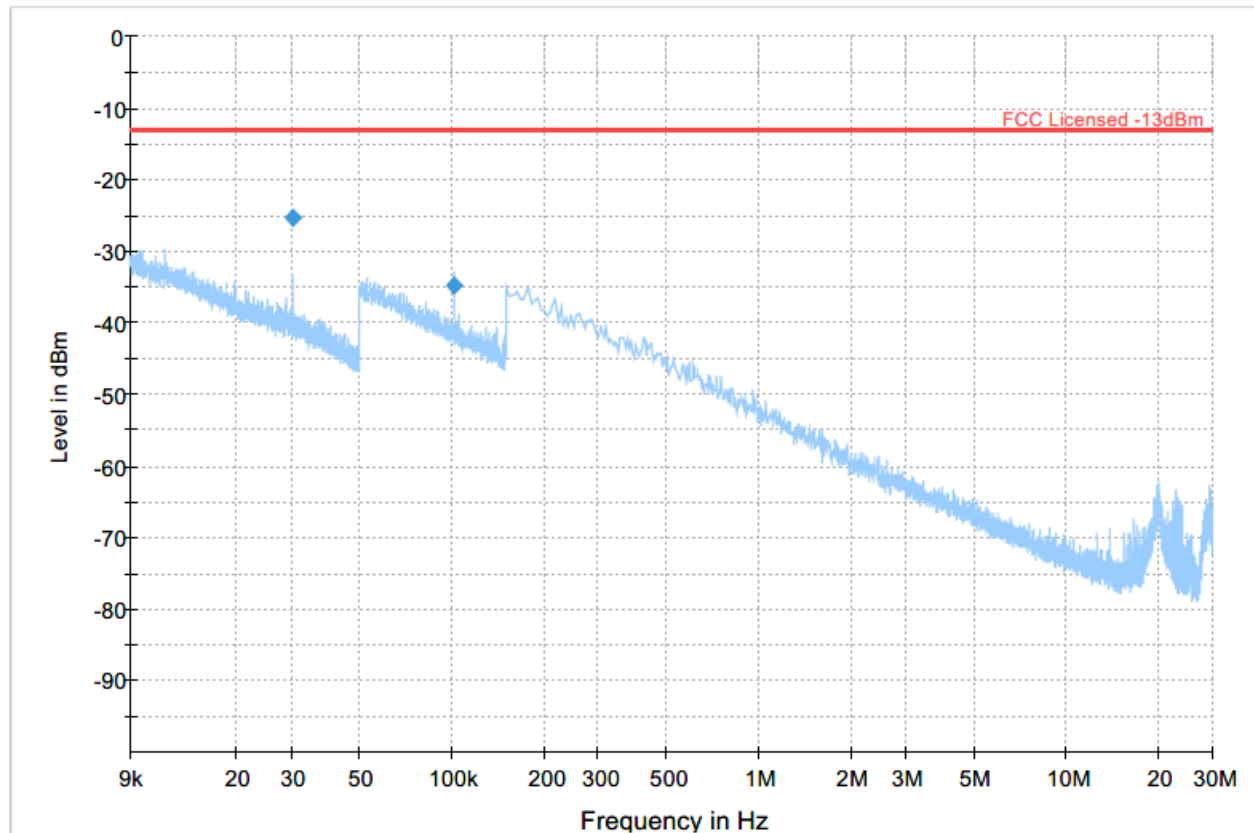
Channel: Mid

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
0.030	-25.32	---	-13.00	12.32	500.0	1.000	134.0	H	96.0	-72.2
0.102	-34.80	---	-13.00	21.80	500.0	1.000	100.0	V	195.0	-76.3



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 54 Radiated Emissions: 30 MHz – 1GHz

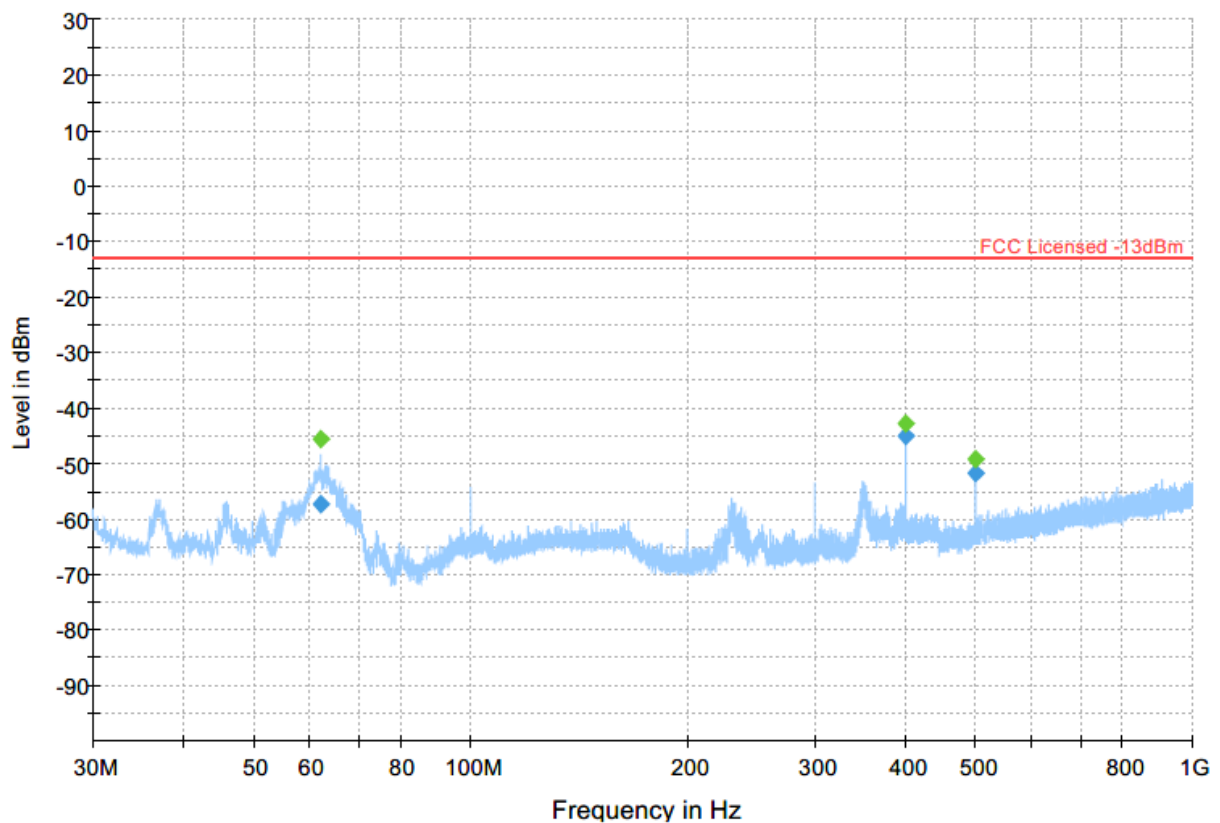
Channel: Mid

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.156	---	-45.70	---	---	500.0	100.000	202.0	V	12.0	-88.1
62.156	-57.24	---	-13.00	44.24	500.0	100.000	202.0	V	12.0	-88.1
399.982	---	-42.72	---	---	500.0	100.000	100.0	H	311.0	-77.2
399.982	-44.98	---	-13.00	31.98	500.0	100.000	100.0	H	311.0	-77.2
499.989	---	-49.24	---	---	500.0	100.000	117.0	H	232.0	-75.3
499.989	-51.66	---	-13.00	38.66	500.0	100.000	117.0	H	232.0	-75.3



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PH

Plot # 55 Radiated Emissions: 1-3 GHz

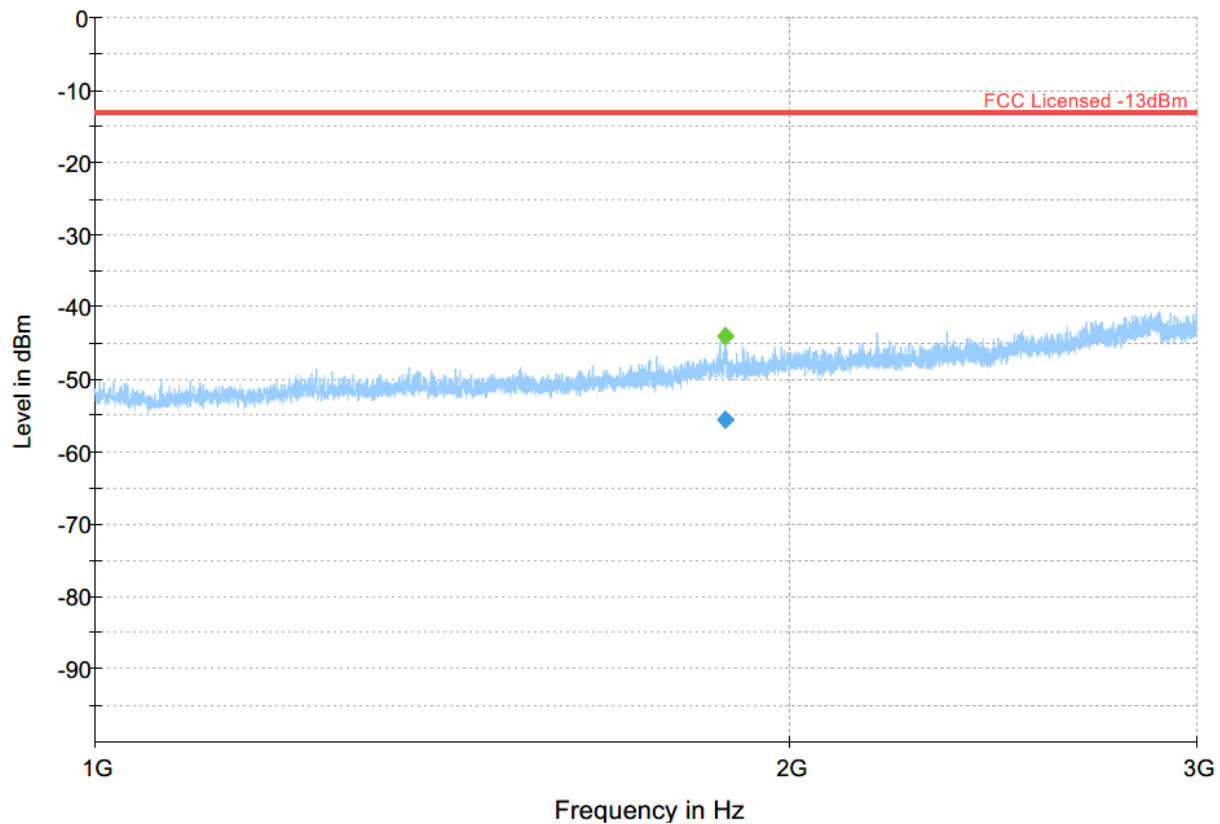
Channel: Mid

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1875.250	---	-43.90	---	---	500.0	1000.000	217.0	V	270.0	-64.2
1875.250	-55.68	---	-13.00	42.68	500.0	1000.000	217.0	V	270.0	-64.2



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 56 Radiated Emissions: 3-18 GHz

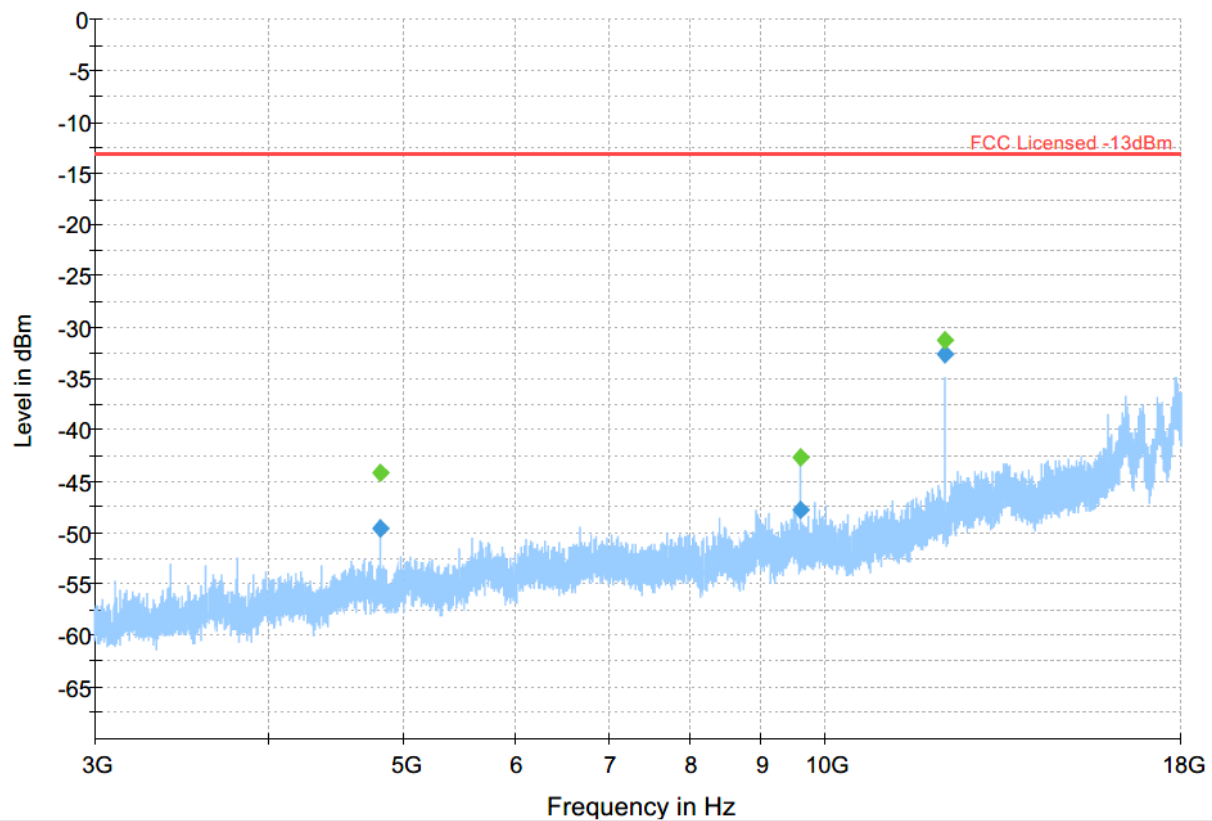
Channel: Mid

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4799.750	---	-44.13	---	---	500.0	1000.000	208.0	H	304.0	-98.4
4799.750	-49.50	---	-13.00	36.50	500.0	1000.000	208.0	H	304.0	-98.4
9599.750	---	-42.71	---	---	500.0	1000.000	142.0	H	339.0	-93.7
9599.750	-47.70	---	-13.00	34.70	500.0	1000.000	142.0	H	339.0	-93.7
12200.000	---	-31.24	---	---	500.0	1000.000	169.0	H	148.0	-90.2
12200.000	-32.63	---	-13.00	19.63	500.0	1000.000	169.0	H	148.0	-90.2



Preview Result 1-PK+

FCC Licensed -13dBm

Final_Result RMS

Final_Result PK+

Plot # 57 Radiated Emissions: 18-40 GHz

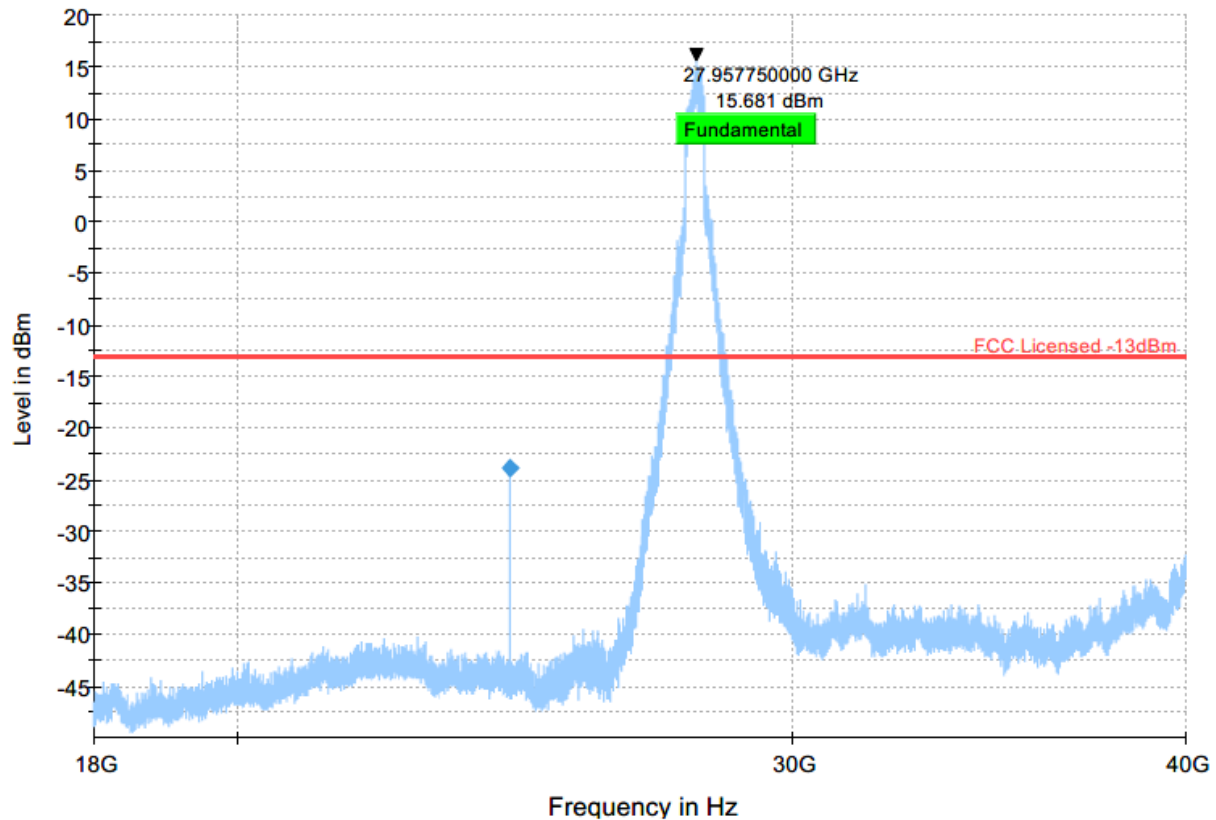
Channel: Mid

Bandwidth: 400MHz

Full RB

Final Result

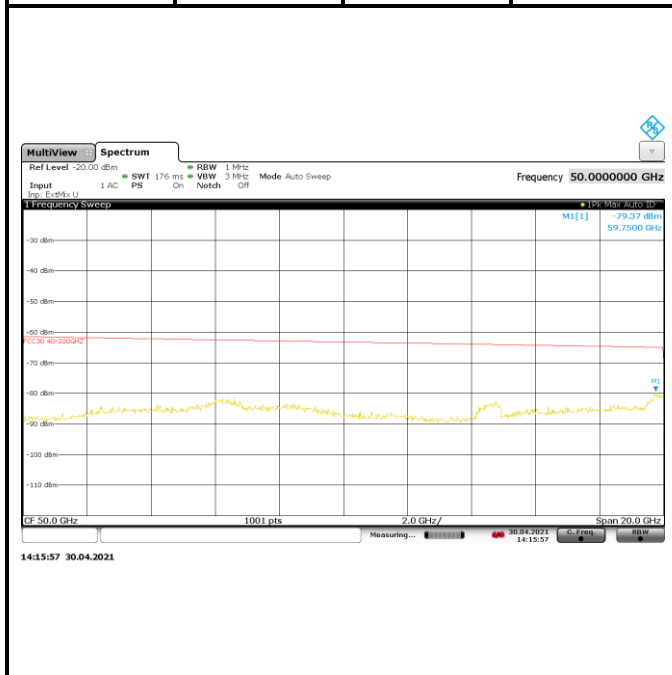
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
24399.938	-23.86	---	-13.00	10.86	500.0	1000.000	100.0	H	8.0	-78.0



— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS ◆ Final_Result PK+

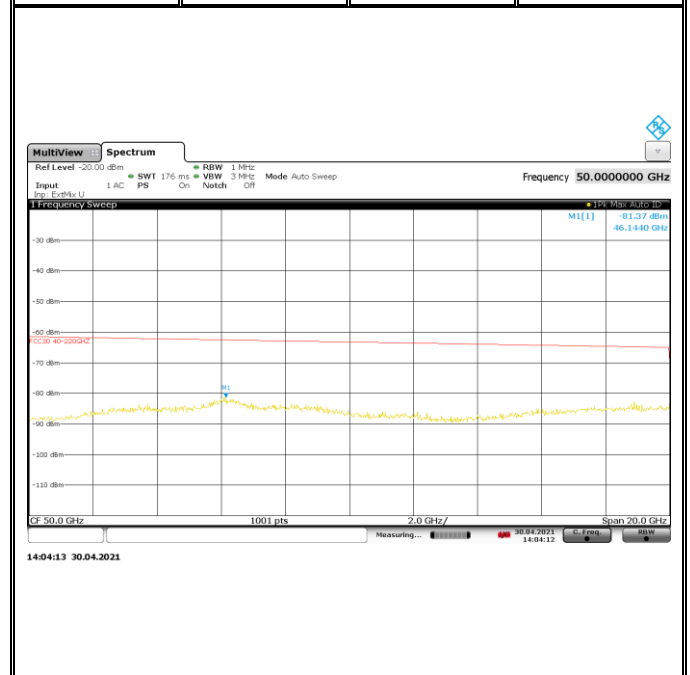
Plot# 58 Radiated Emission 40-60GHz

Mid CH H-Pol 400MHz Full RB



Plot# 59 Radiated Emission 40-60GHz

Mid CH V-Pol 400MHz Full RB



Plot# 60 Radiated Emission 60-90GHz

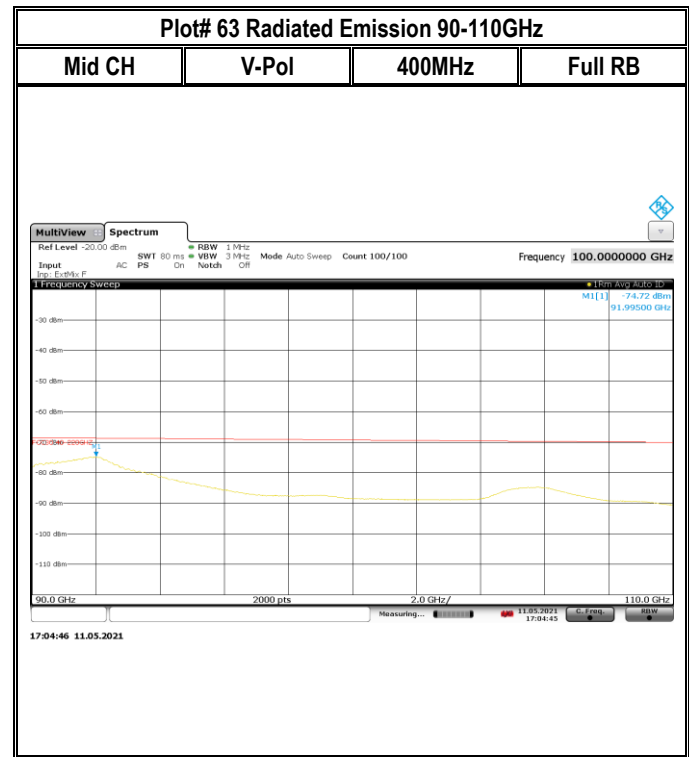
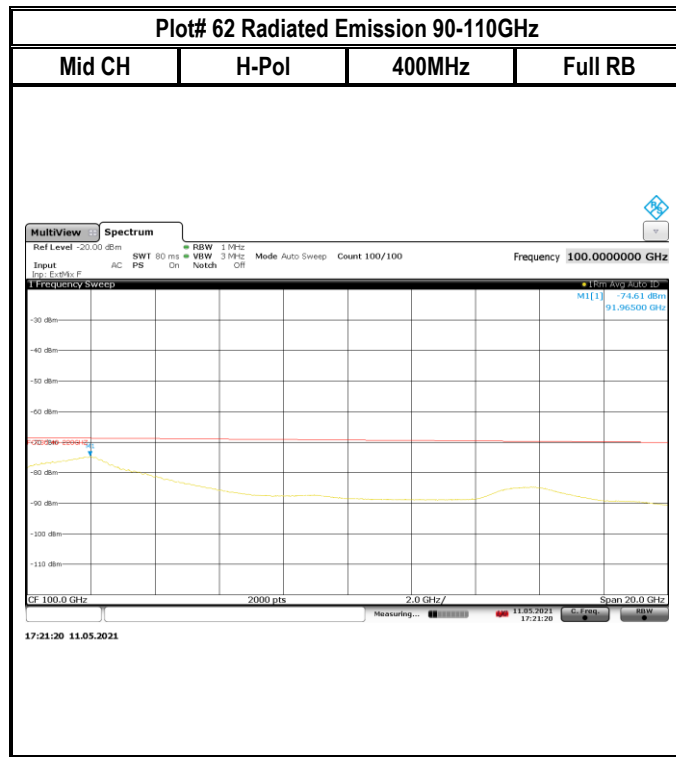
Mid CH H-Pol 400MHz Full RB



Plot# 61 Radiated Emission 60-90GHz

Mid CH V-Pol 400MHz Full RB





Plot # 64 Radiated Emissions: 30 MHz – 1GHz

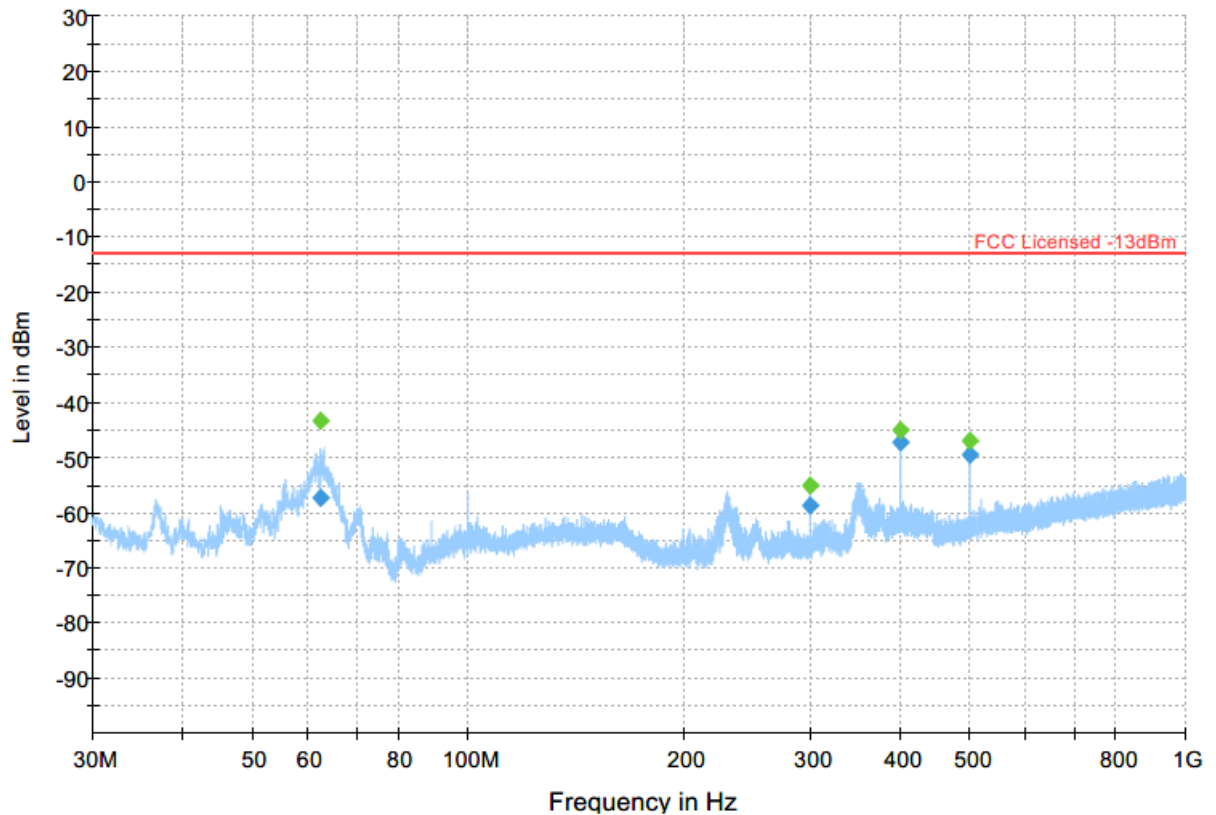
Channel: High

Bandwidth: 50MHz

1RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.471	---	-43.25	---	---	500.0	100.000	201.0	V	38.0	-88.1
62.471	-57.36	---	-13.00	44.36	500.0	100.000	201.0	V	38.0	-88.1
299.975	---	-55.04	---	---	500.0	100.000	100.0	V	216.0	-80.2
299.975	-58.64	---	-13.00	45.64	500.0	100.000	100.0	V	216.0	-80.2
399.982	---	-45.12	---	---	500.0	100.000	100.0	H	314.0	-77.2
399.982	-47.14	---	-13.00	34.14	500.0	100.000	100.0	H	314.0	-77.2
499.989	---	-47.13	---	---	500.0	100.000	100.0	V	213.0	-75.5
499.989	-49.43	---	-13.00	36.43	500.0	100.000	100.0	V	213.0	-75.5



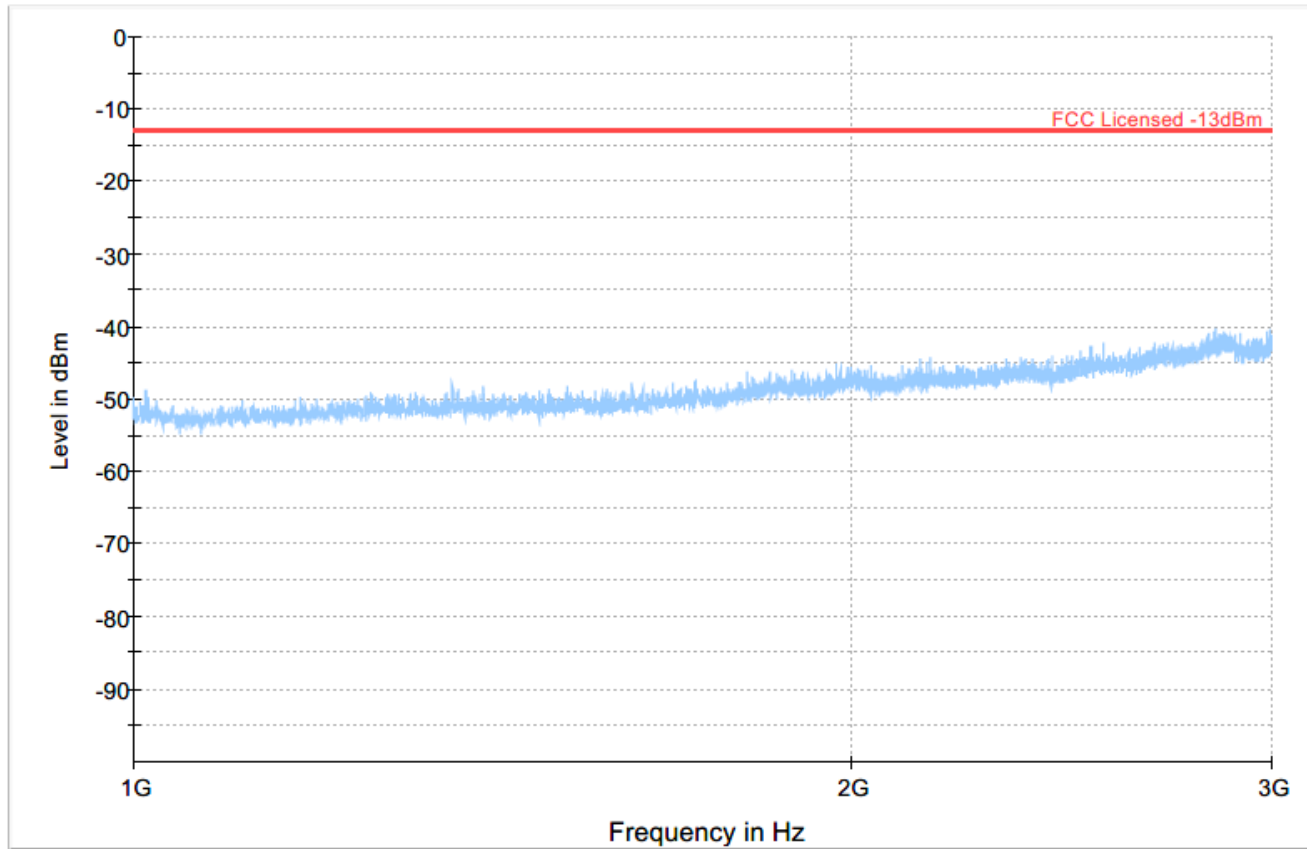
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 65 Radiated Emissions: 1-3 GHz

Channel: High

Bandwidth: 50MHz

1RB



Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

Plot # 66 Radiated Emissions: 3-18 GHz

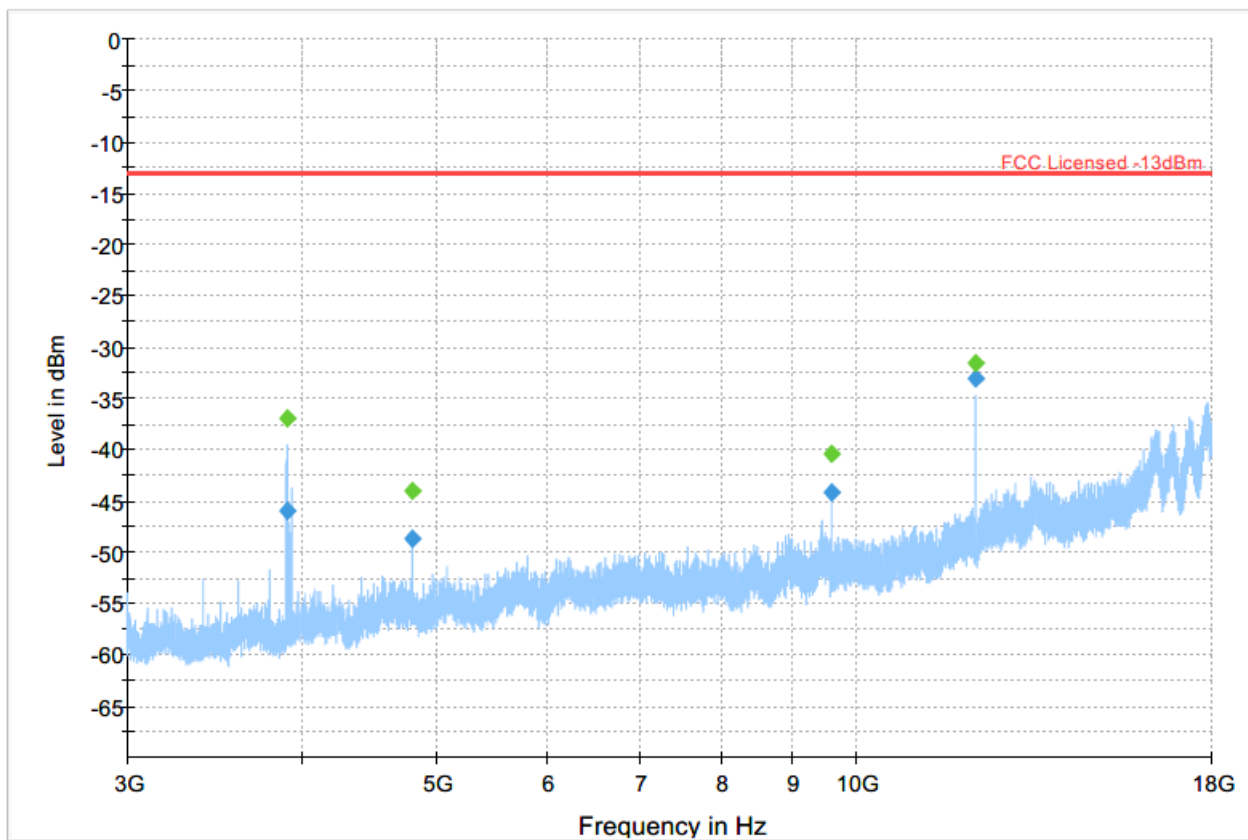
Channel: High

Bandwidth: 50MHz

1RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3902.500	---	-36.89	---	---	500.0	1000.000	142.0	V	317.0	-100.9
3902.500	-46.03	---	-13.00	33.03	500.0	1000.000	142.0	V	317.0	-100.9
4800.000	---	-43.94	---	---	500.0	1000.000	205.0	H	302.0	-98.4
4800.000	-48.61	---	-13.00	35.61	500.0	1000.000	205.0	H	302.0	-98.4
9600.000	---	-40.35	---	---	500.0	1000.000	186.0	V	266.0	-93.7
9600.000	-44.12	---	-13.00	31.12	500.0	1000.000	186.0	V	266.0	-93.7
12200.000	---	-31.57	---	---	500.0	1000.000	169.0	H	145.0	-90.2
12200.000	-33.07	---	-13.00	20.07	500.0	1000.000	169.0	H	145.0	-90.2



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 67 Radiated Emissions: 18-40 GHz

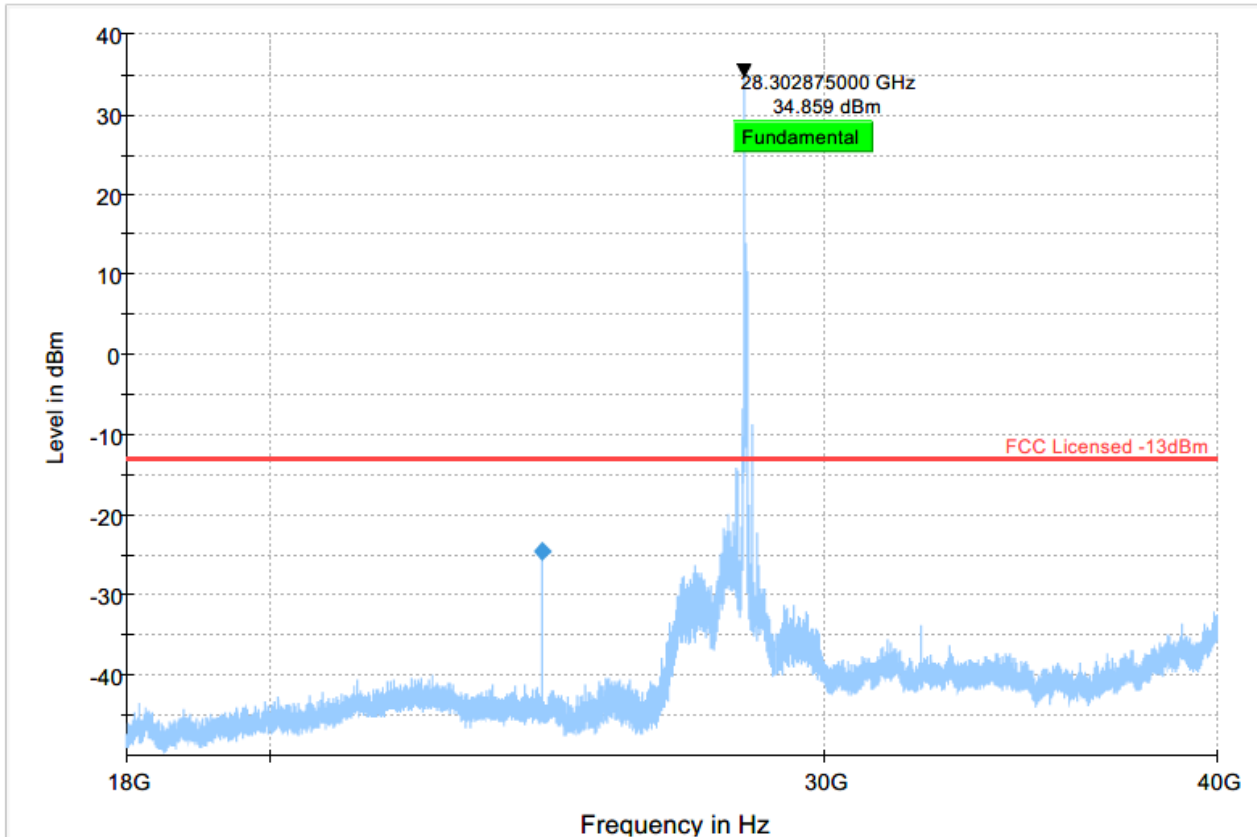
Channel: High

Bandwidth: 50MHz

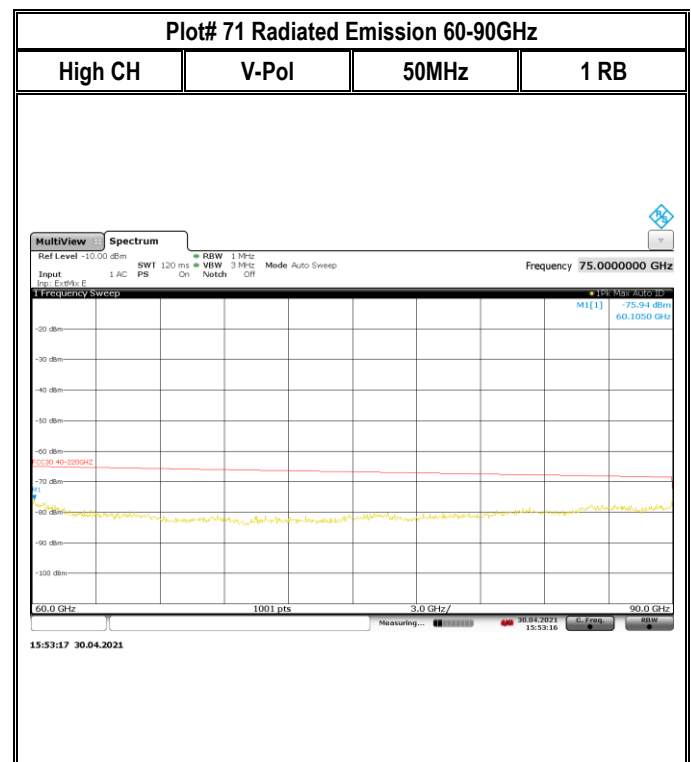
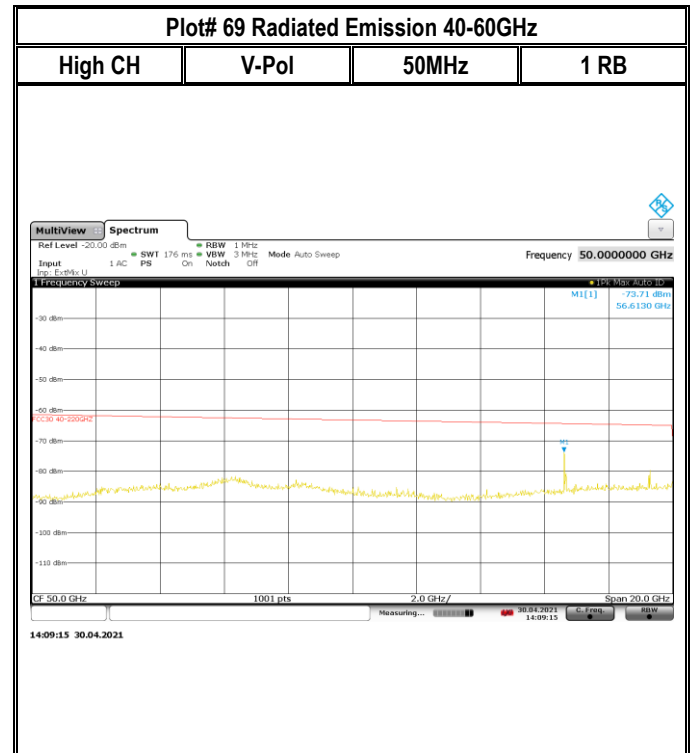
1RB

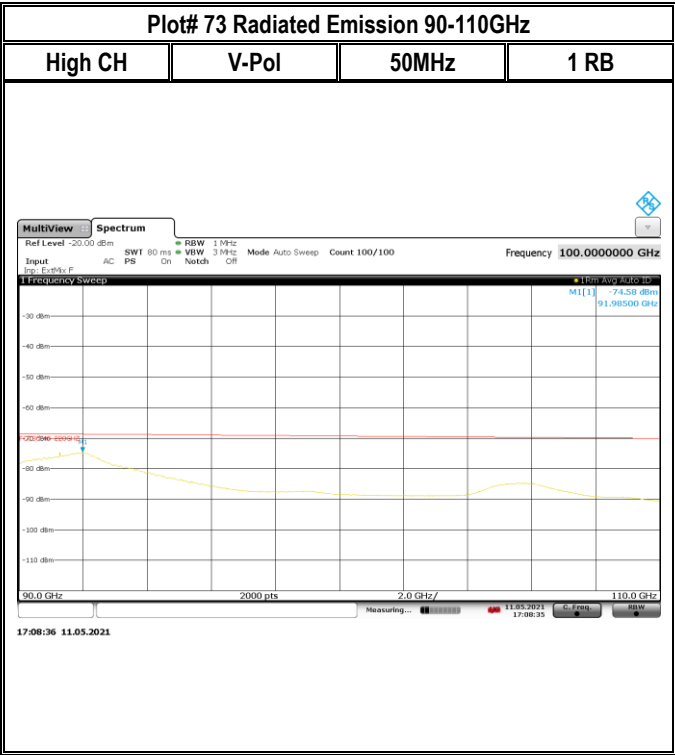
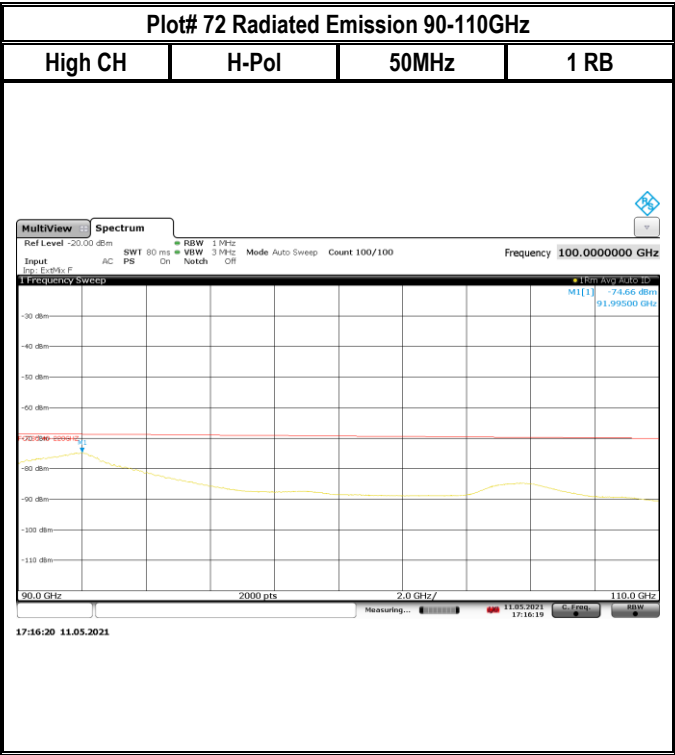
Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
24399.938	-24.60	---	-13.00	11.60	500.0	1000.000	100.0	H	7.0	-78.0



— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS ◆ Final_Result PK+





Plot # 74 Radiated Emissions: 30 MHz – 1GHz

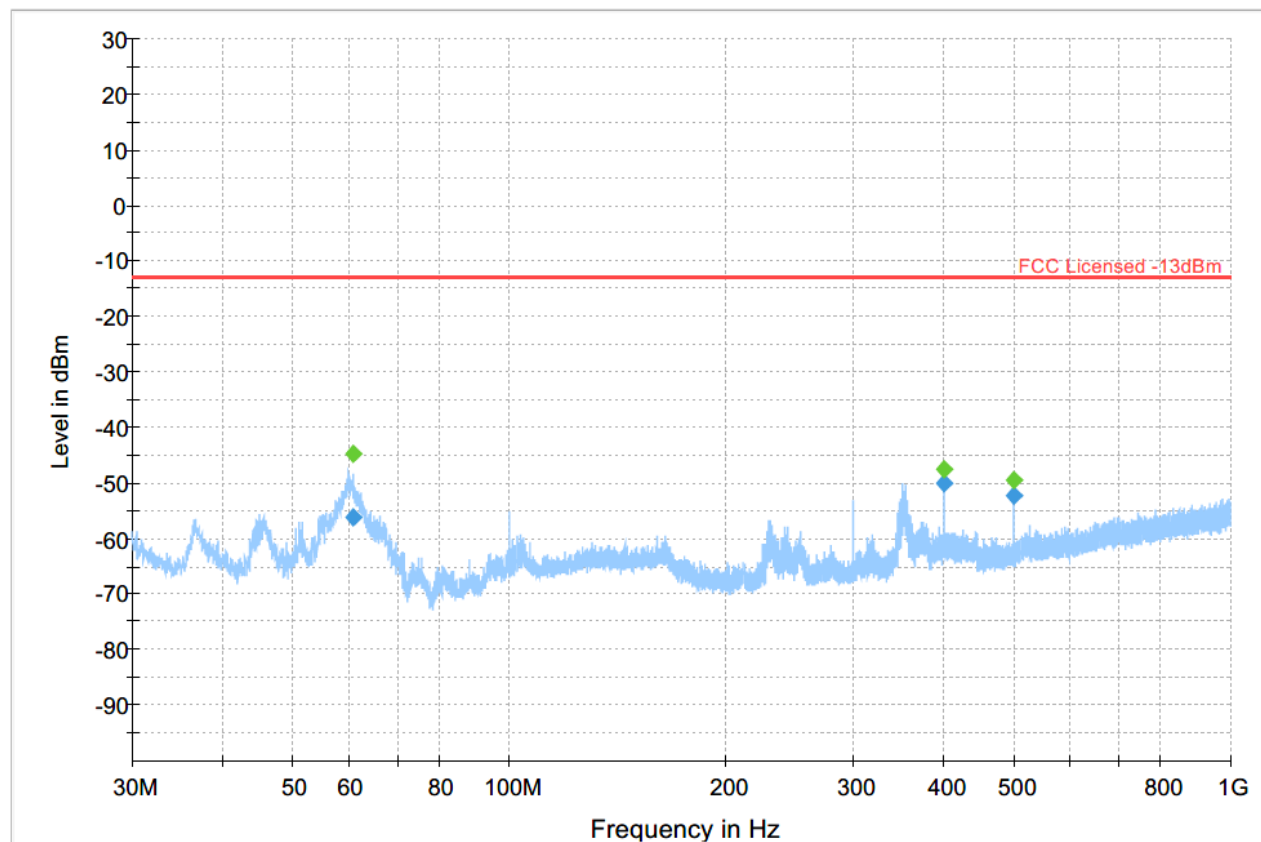
Channel: High

Bandwidth: 400MHz

1RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.822	---	-44.67	---	---	500.0	100.000	175.0	V	281.0	-88.1
60.822	-56.16	---	-13.00	43.16	500.0	100.000	175.0	V	281.0	-88.1
399.982	---	-47.65	---	---	500.0	100.000	107.0	V	226.0	-77.6
399.982	-49.94	---	-13.00	36.94	500.0	100.000	107.0	V	226.0	-77.6
499.989	---	-49.58	---	---	500.0	100.000	117.0	H	264.0	-75.3
499.989	-52.21	---	-13.00	39.21	500.0	100.000	117.0	H	264.0	-75.3



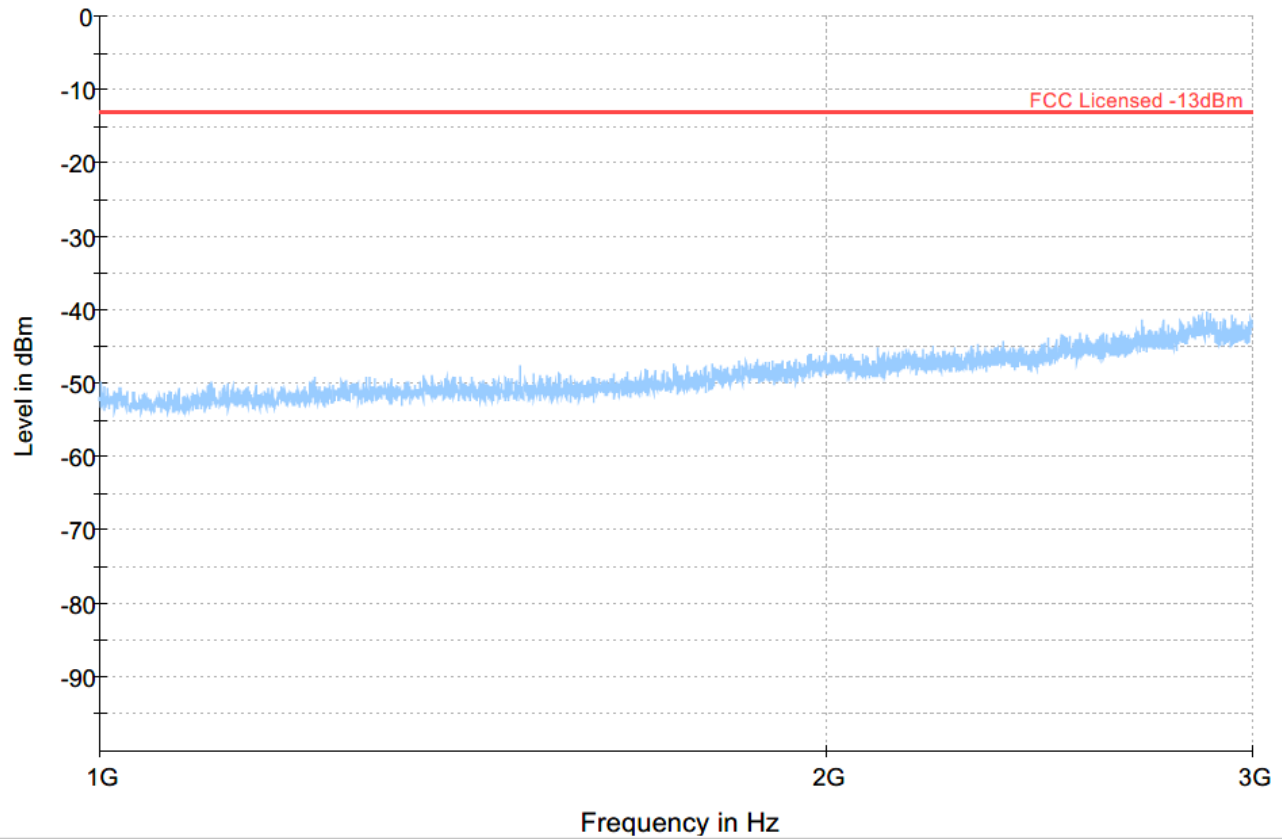
Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 75 Radiated Emissions: 1-3 GHz

Channel: High

Bandwidth: 400MHz

1RB



Preview Result 1-PK+
Final_Result RMS

* Critical_Freqs PK+
Final_Result PK+

FCC Licensed -13dBm

Plot # 76 Radiated Emissions: 3-18 GHz

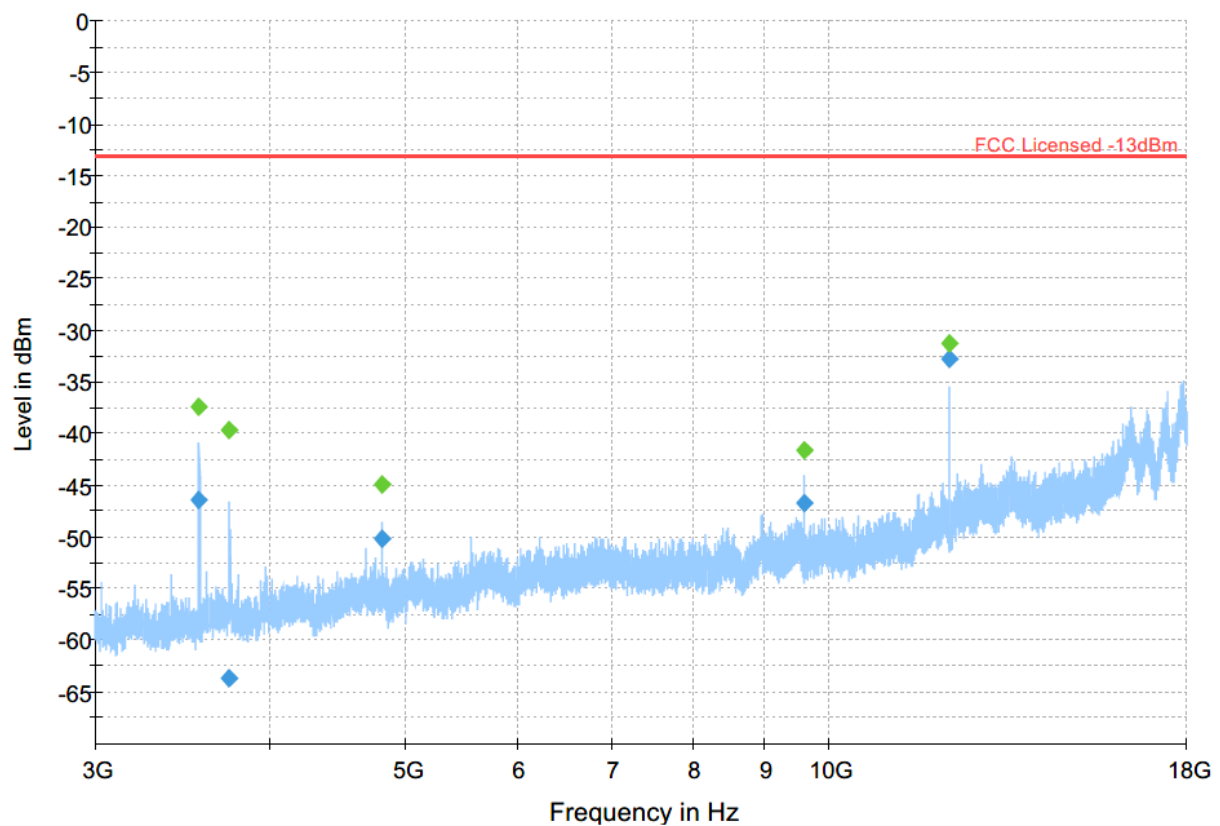
Channel: High

Bandwidth: 400MHz

1RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3560.250	---	-37.41	---	---	500.0	1000.000	150.0	V	251.0	-101.8
3560.250	-46.47	---	-13.00	33.47	500.0	1000.000	150.0	V	251.0	-101.8
3737.250	---	-39.65	---	---	500.0	1000.000	300.0	H	357.0	-101.0
3737.250	-63.63	---	-13.00	50.63	500.0	1000.000	300.0	H	357.0	-101.0
4799.750	---	-44.91	---	---	500.0	1000.000	206.0	H	302.0	-98.4
4799.750	-50.13	---	-13.00	37.13	500.0	1000.000	206.0	H	302.0	-98.4
9599.750	---	-41.66	---	---	500.0	1000.000	135.0	V	294.0	-93.7
9599.750	-46.69	---	-13.00	33.69	500.0	1000.000	135.0	V	294.0	-93.7
12200.000	---	-31.30	---	---	500.0	1000.000	169.0	H	148.0	-90.2
12200.000	-32.68	---	-13.00	19.68	500.0	1000.000	169.0	H	148.0	-90.2



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 77 Radiated Emissions: 18-40 GHz

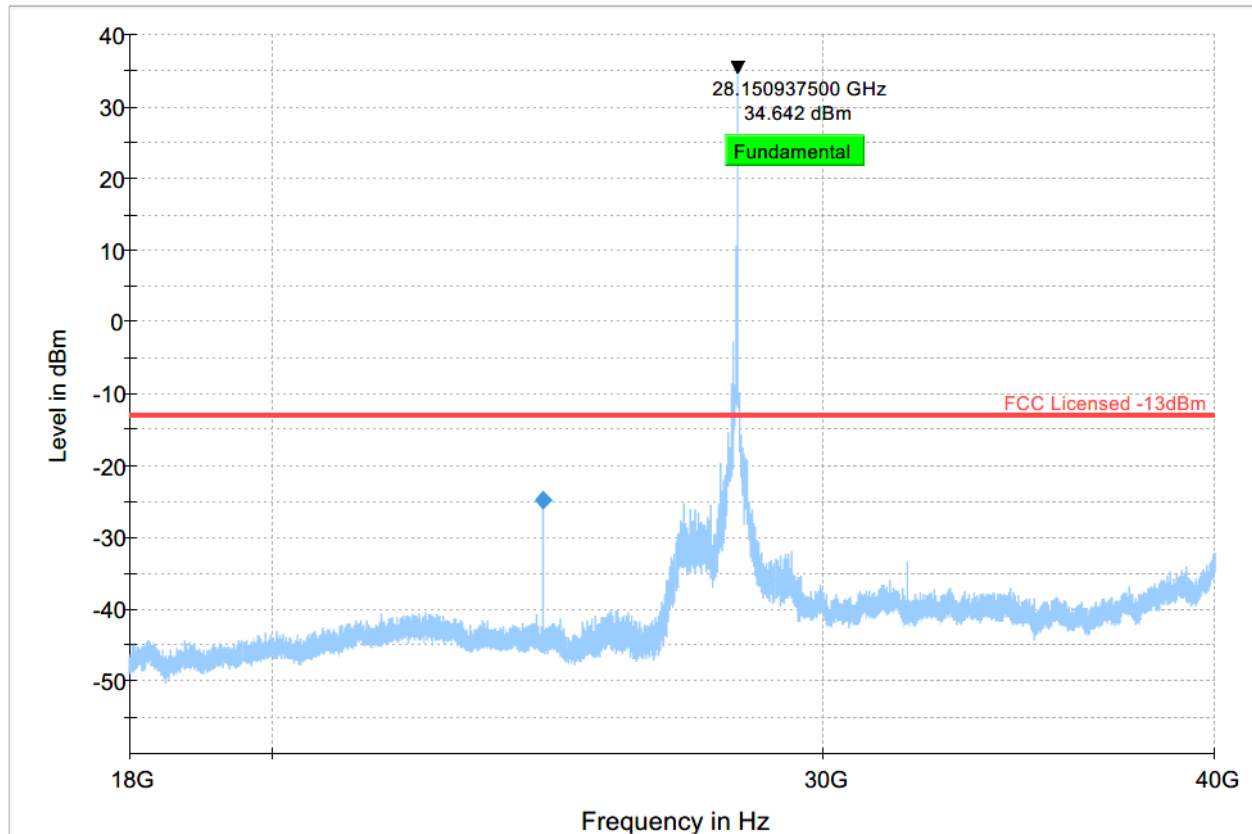
Channel: High

Bandwidth: 400MHz

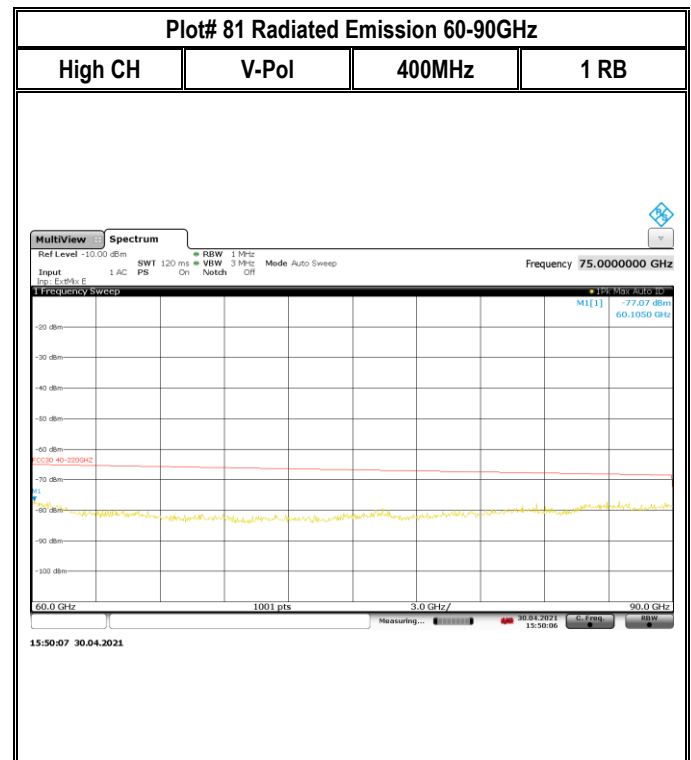
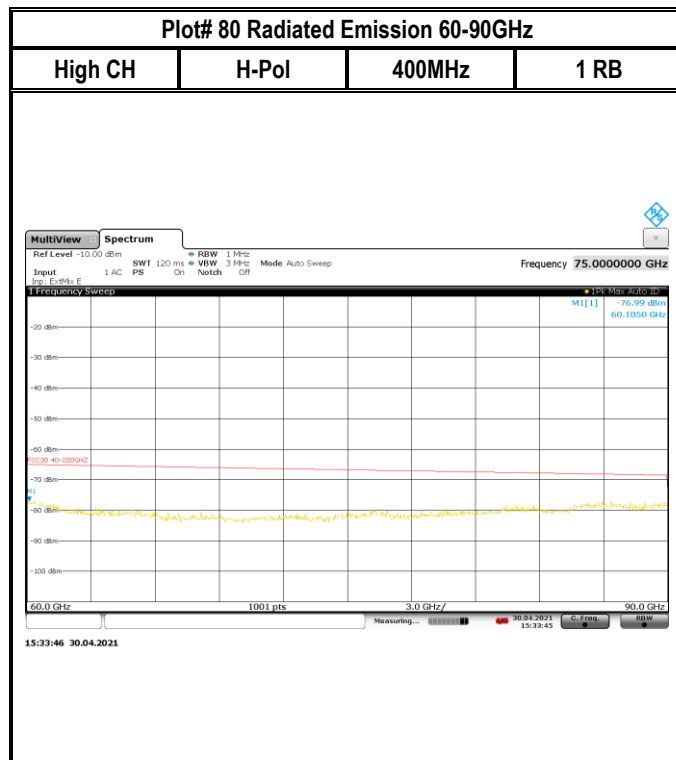
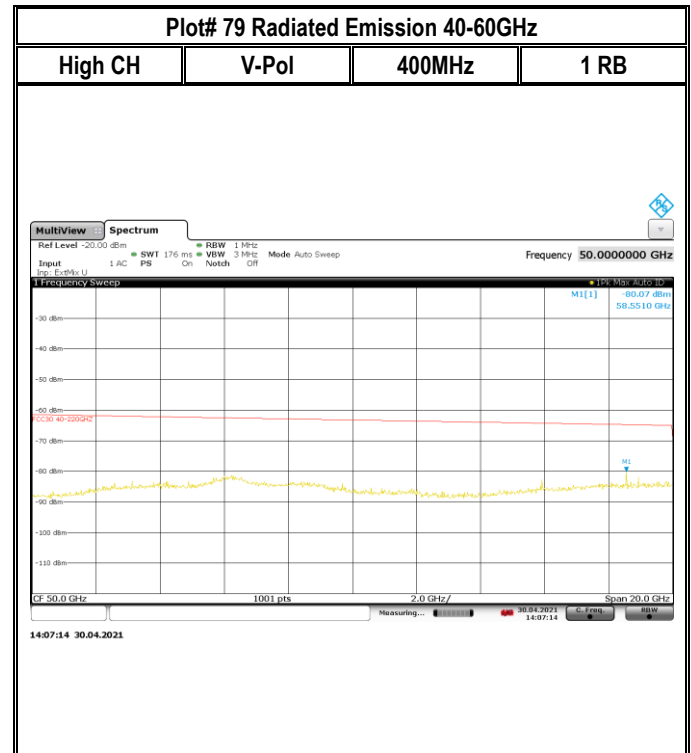
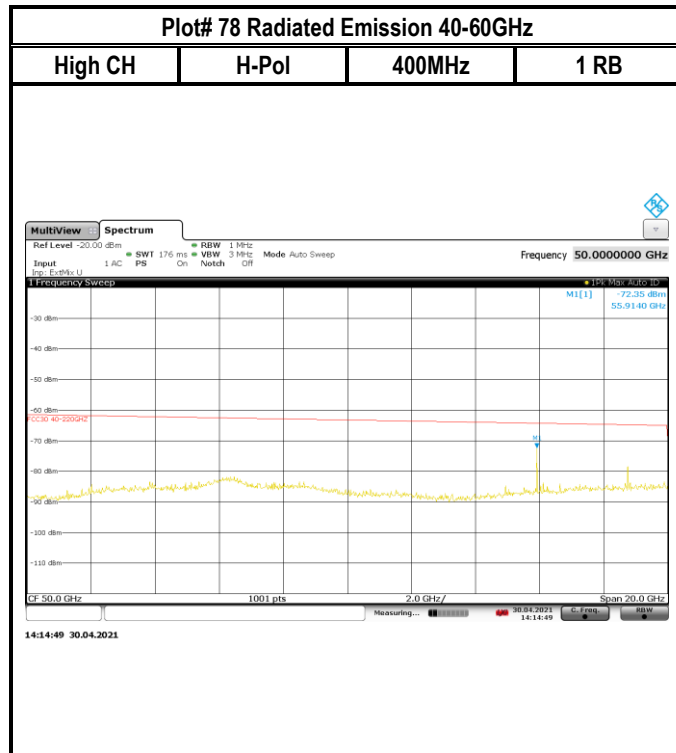
1RB

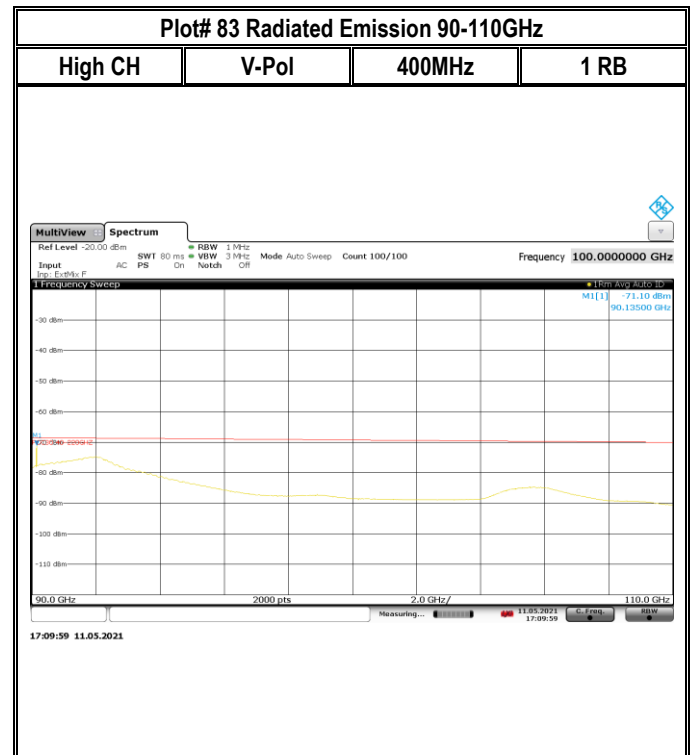
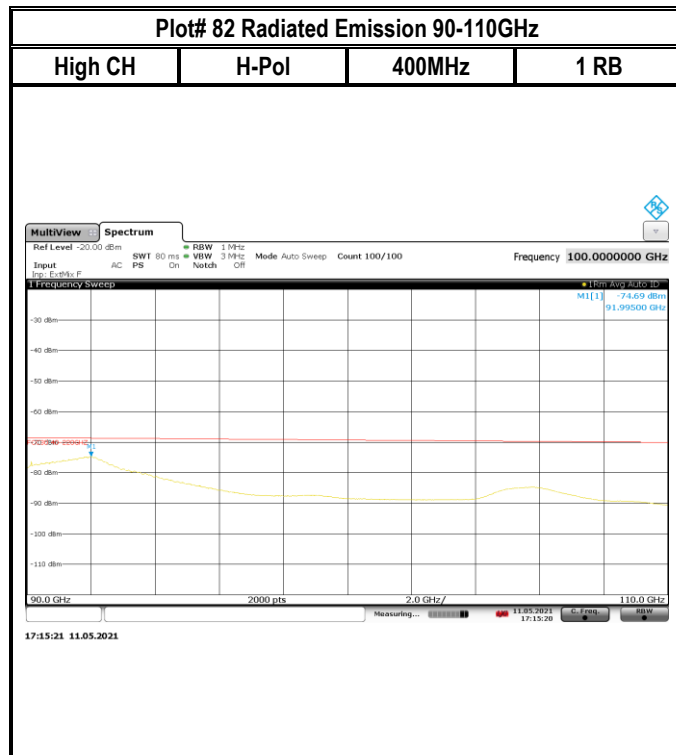
Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
24399.938	-24.90	---	-13.00	11.90	500.0	1000.000	100.0	H	6.0	-78.0



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+





Plot # 84 Radiated Emissions: 30 MHz – 1GHz

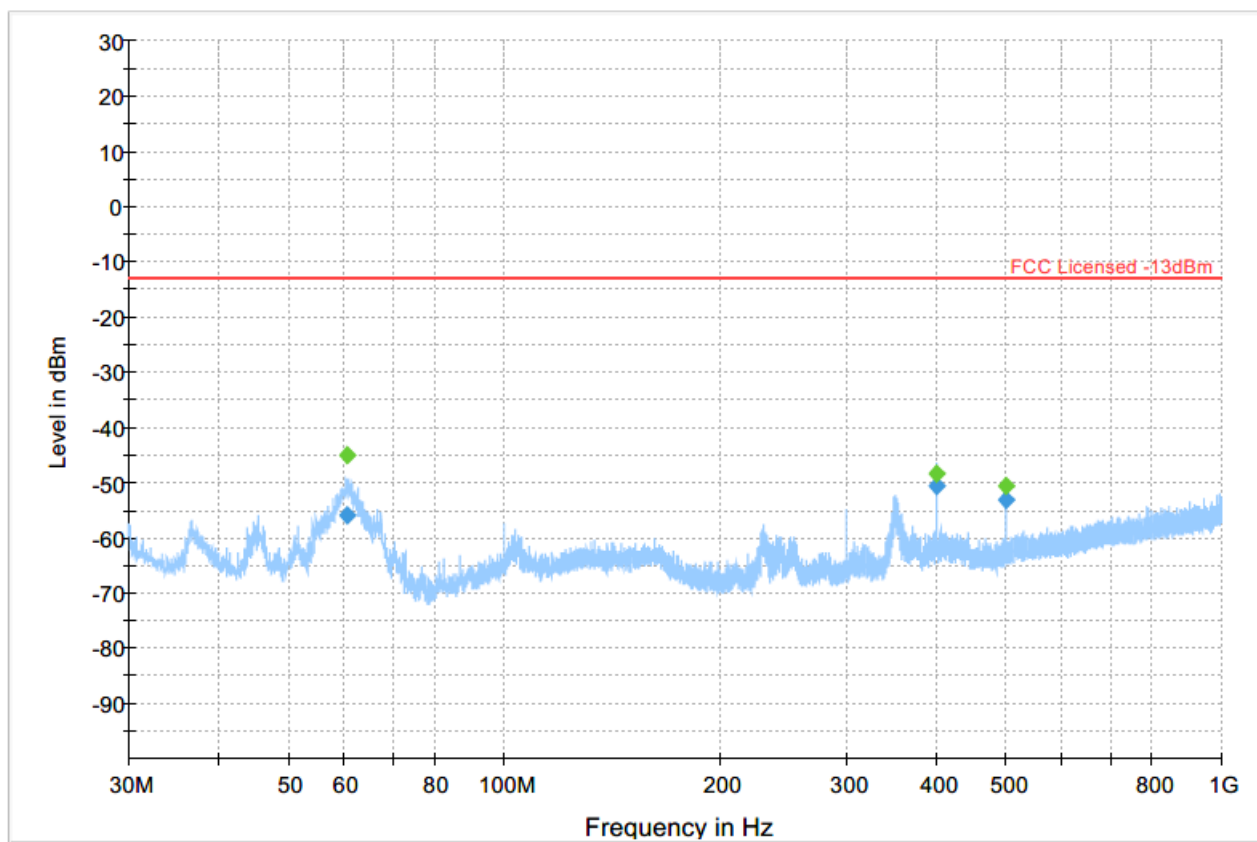
Channel: High

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.434	---	-45.15	---	---	500.0	100.000	202.0	V	357.0	-88.1
60.434	-55.88	---	-13.00	42.88	500.0	100.000	202.0	V	357.0	-88.1
399.982	---	-48.43	---	---	500.0	100.000	100.0	V	56.0	-77.6
399.982	-50.56	---	-13.00	37.56	500.0	100.000	100.0	V	56.0	-77.6
499.989	---	-50.51	---	---	500.0	100.000	107.0	H	233.0	-75.3
499.989	-53.09	---	-13.00	40.09	500.0	100.000	107.0	H	233.0	-75.3



— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK+

Plot # 85 Radiated Emissions: 1-3 GHz

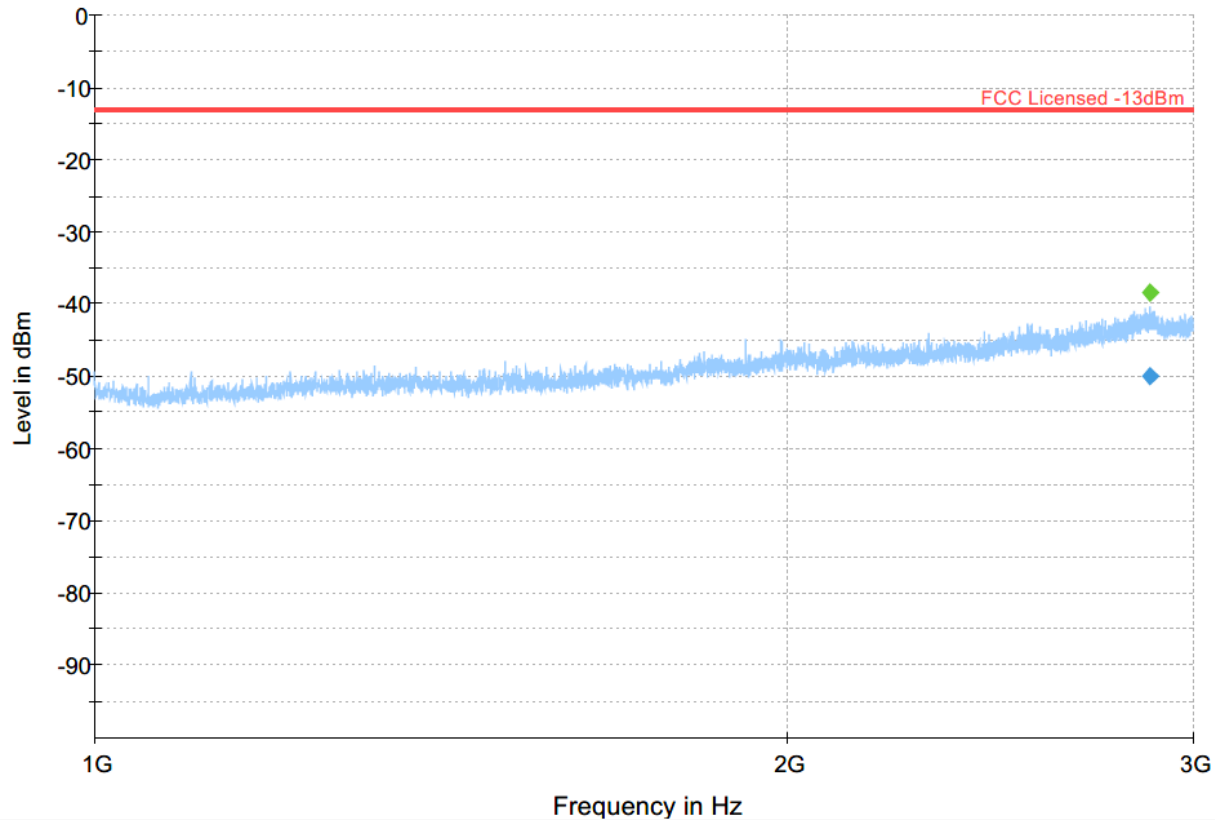
Channel: High

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
2874.250	---	-38.47	---	---	500.0	1000.000	116.0	V	205.0	-60.6
2874.250	-50.02	---	-13.00	37.02	500.0	1000.000	116.0	V	205.0	-60.6



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 86 Radiated Emissions: 3-18 GHz

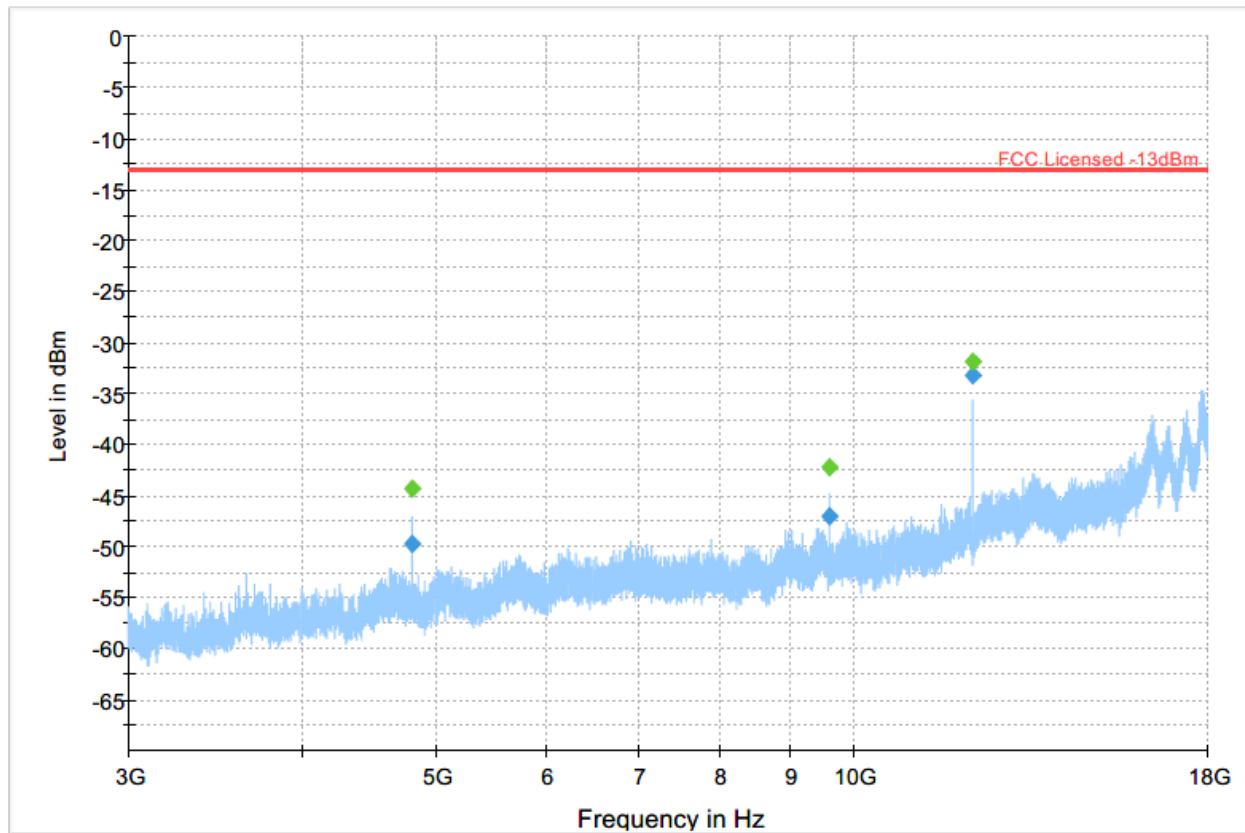
Channel: High

Bandwidth: 400MHz

Full RB

Final Result

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
4799.750	---	-44.39	---	---	500.0	1000.000	208.0	H	303.0	-98.4
4799.750	-49.78	---	-13.00	36.78	500.0	1000.000	208.0	H	303.0	-98.4
9599.750	---	-42.24	---	---	500.0	1000.000	134.0	V	294.0	-93.7
9599.750	-46.95	---	-13.00	33.95	500.0	1000.000	134.0	V	294.0	-93.7
12200.000	---	-31.81	---	---	500.0	1000.000	170.0	H	145.0	-90.2
12200.000	-33.21	---	-13.00	20.21	500.0	1000.000	170.0	H	145.0	-90.2



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

Plot # 87 Radiated Emissions: 18-40 GHz

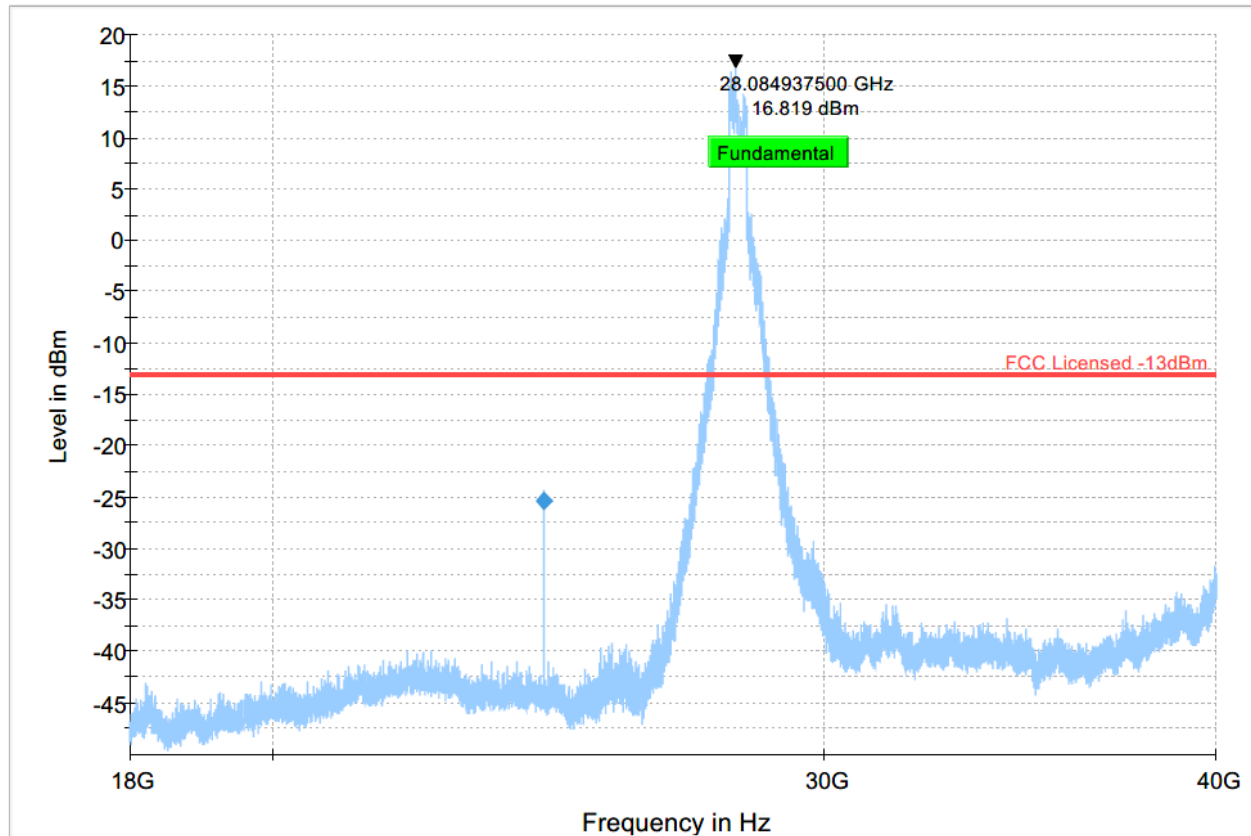
Channel: High

Bandwidth: 400MHz

Full RB

Final Result

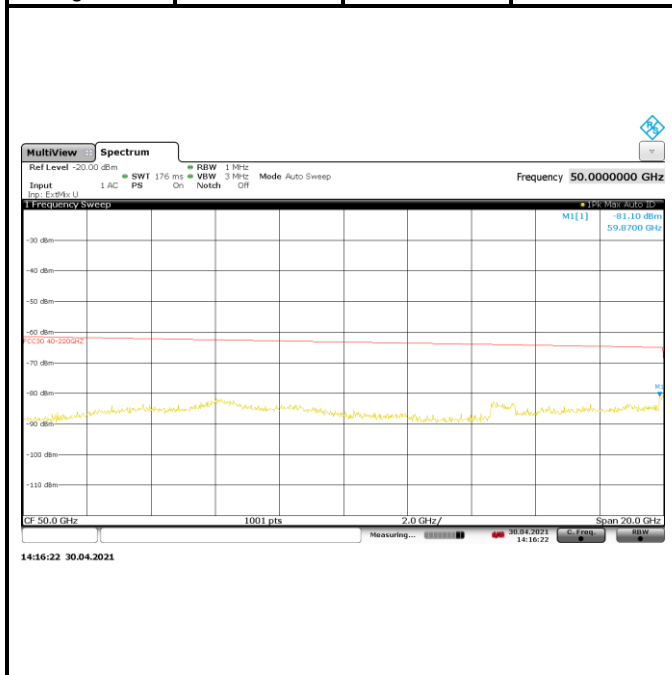
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
24399.938	-25.30	---	-13.00	12.30	500.0	1000.000	100.0	H	5.0	-78.0



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK+

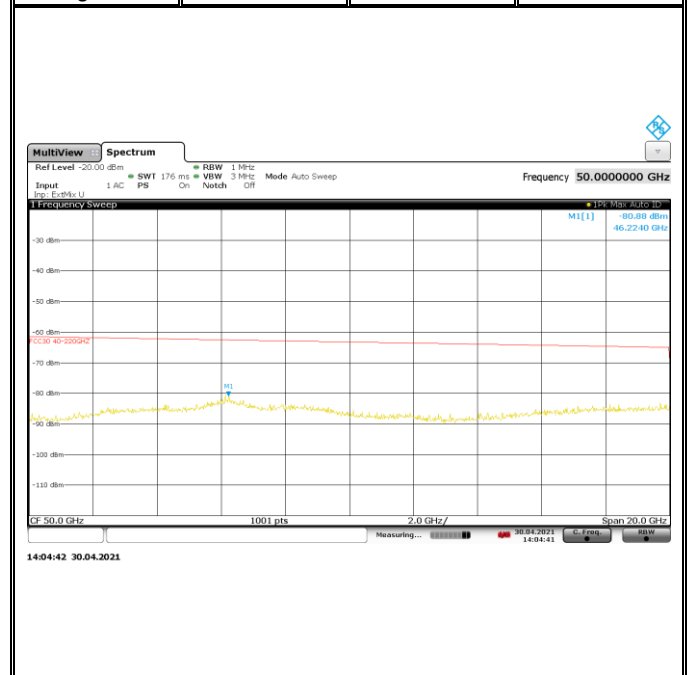
Plot# 88 Radiated Emission 40-60GHz

High CH H-Pol 400MHz Full RB



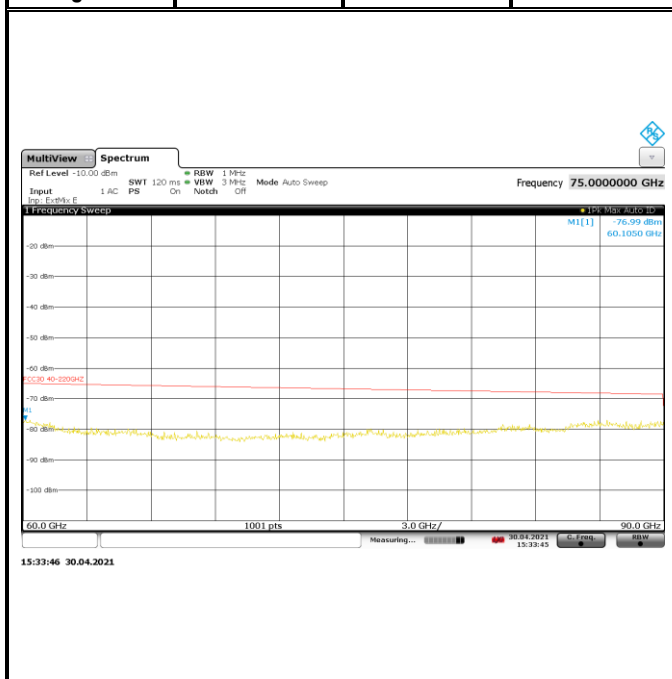
Plot# 89 Radiated Emission 40-60GHz

High CH V-Pol 400MHz Full RB



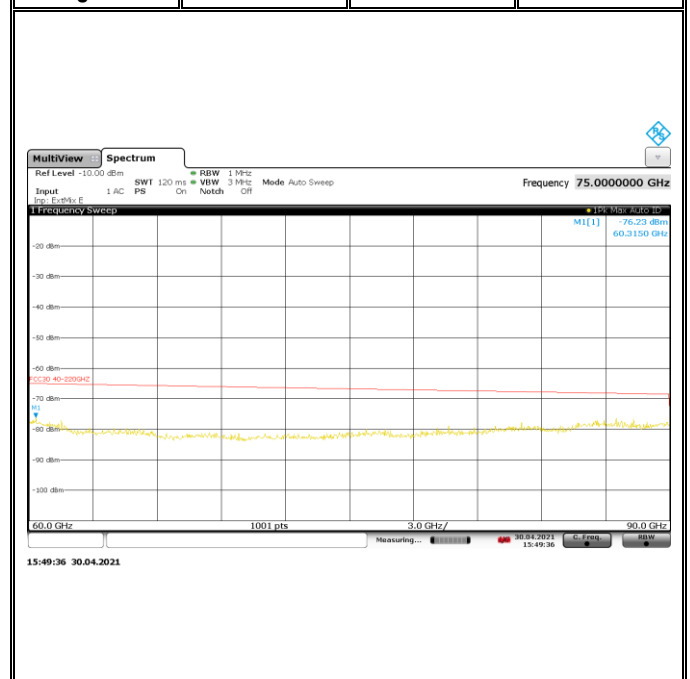
Plot# 90 Radiated Emission 60-90GHz

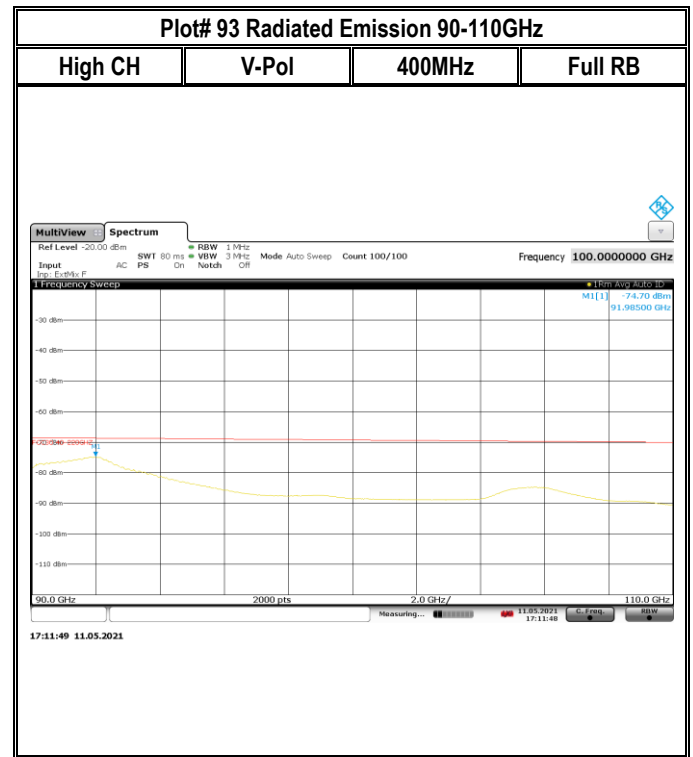
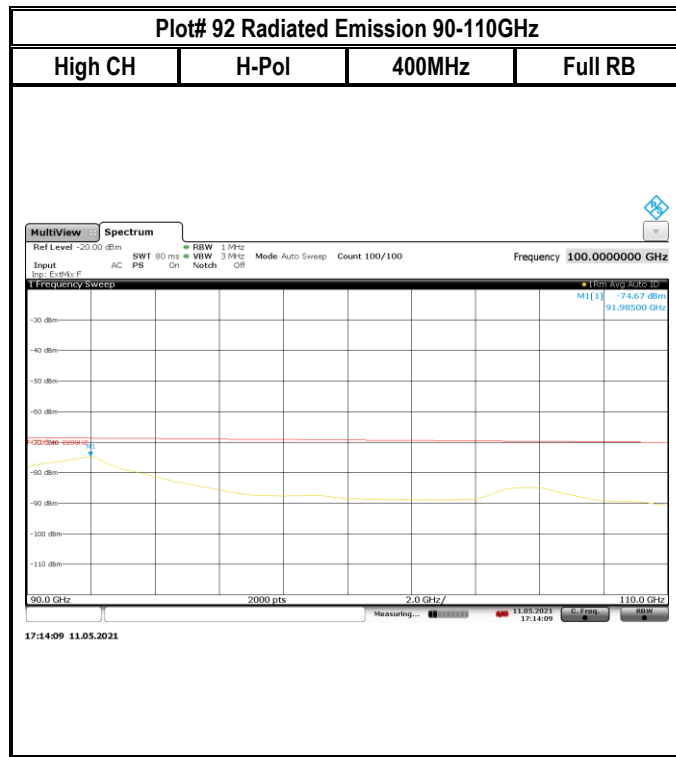
High CH H-Pol 400MHz Full RB



Plot# 91 Radiated Emission 60-90GHz

High CH V-Pol 400MHz Full RB





8 Test setup photos

Setup photos are included in supporting file name: "EMC_FREEF-002-21001_Setup_Photos.pdf"

9 Test Equipment And Ancillaries Used For Testing

Equipment Name/Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
EMI Receiver/Analyzer	Rohde&Schwarz	ESW44	101715	3 years	01/07/2020
Loop antenna	ETS Lindgren	6507	161344	3 Years	10/30/2020
BiLA2G	AH systems	SAS-521-2	569	3 years	12/01/2020
Horn Antenna	EMCO	3115	35111	3 years	04/17/2019
Horn Antenna	ETS Lindgren	3117-PA	169547	3 years	09/01/2020
Horn Antenna	ETS Lindgren	3116C-PA	169535	3 years	09/30/2020
Horn Antenna 25 dBi Gain	Mi-Wave	261U-25	N/A	3 years	06/03/2020
Horn Antenna 25 dBi Gain	Mi-Wave	261E-25	N/A	3 years	06/03/2020
Horn Antenna 25 dBi Gain	Mi-Wave	261W-25	N/A	3 years	06/03/2020
Horn Antenna 25 dBi Gain	Mi-Wave	261F-25	N/A	3 years	06/03/2020
Horn Antenna 25 dBi Gain	Mi-Wave	261G-25	N/A	3 years	06/03/2020
Horn Antenna 20 dBi Gain	Flann Microwave	32240-20	N/A	3 years	06/08/2020
Harmonic Mixer	Rohde&Schwarz	FS-Z60	101025	3 years	01/22/2020
Harmonic Mixer	Rohde&Schwarz	FS-Z90	102088	3 years	02/19/2020
Harmonic Mixer	Rohde&Schwarz	FS-Z140	101145	3 years	02/24/2020
Harmonic Mixer	Rohde&Schwarz	FS-Z220	101037	3 years	03/23/2020
Harmonic Mixer	Rohde&Schwarz	FS-Z325	100943	3 years	02/27/2020
Compact Digital Barometer	Control Company	36934-164	191871994	3 years	01/10/2019
Thermal Chamber	Test Equity	123H	230159	N/A	N/A

Note: Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels.

Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before use.

10 History

Date	Report Name	Changes to report	Report prepared by
2021-07-20	EMC_FREEF-002-21001_FCC_30	Initial Version	Yuchan Lu
2021-08-20	EMC_FREEF-002-21001_FCC_30_Rev1	Updated Section 8.2 with 2 input source	Yuchan Lu
2021-09-09	EMC_FREEF-002-21001_FCC_30_Rev2	Added Section 5.2 Emission Summary	Yuchan Lu

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