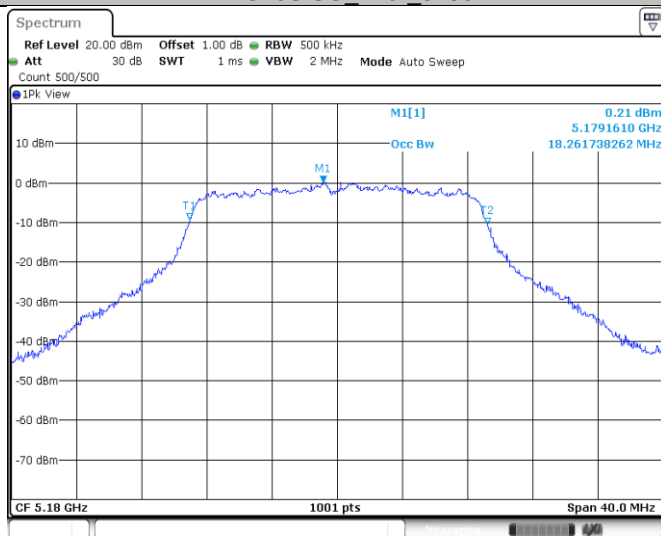
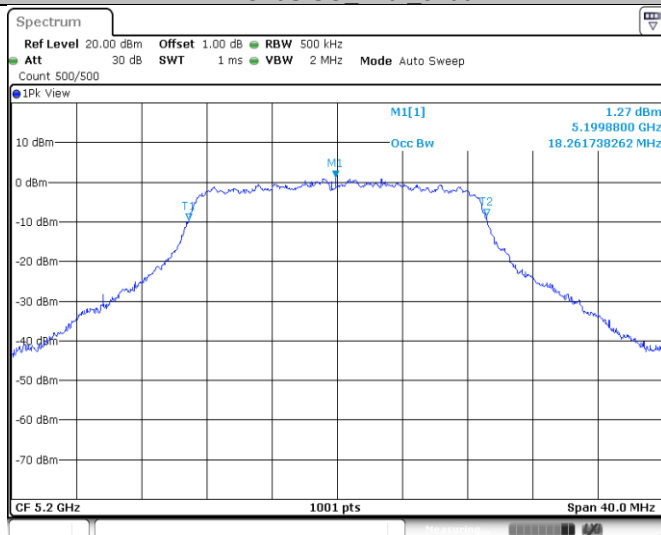


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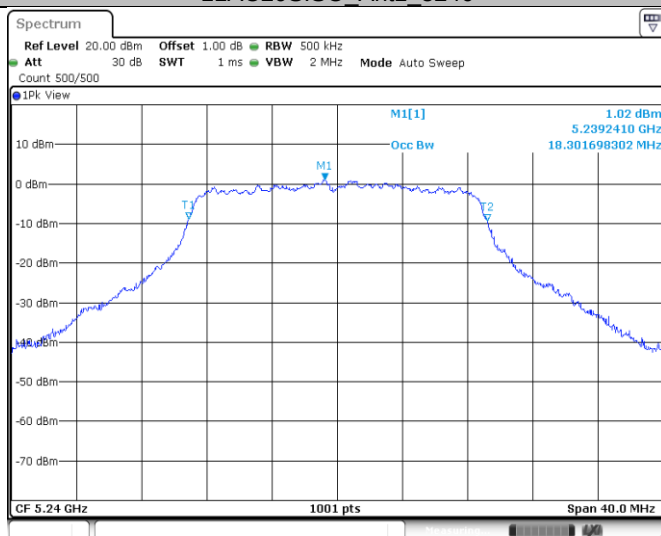
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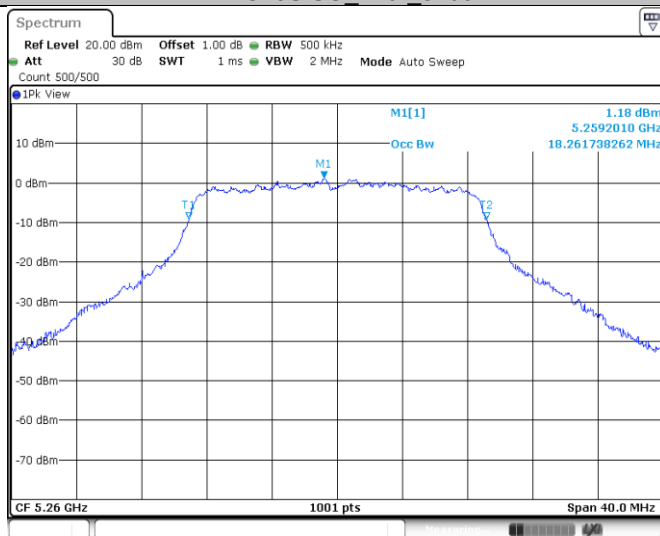
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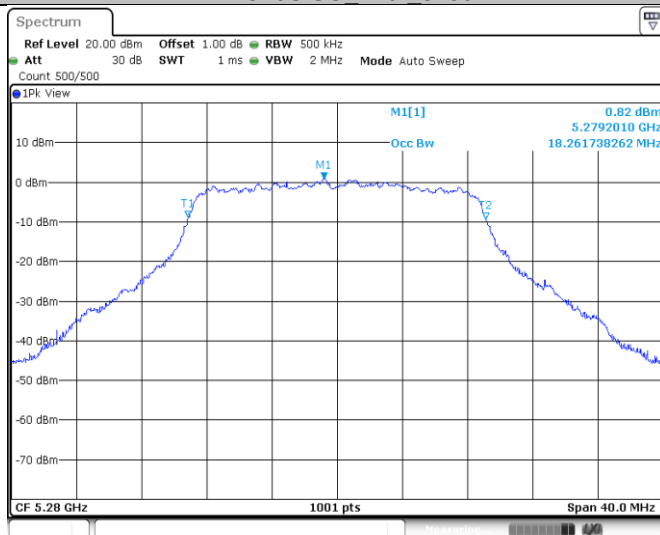
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11AC20SISO_Ant1_5260



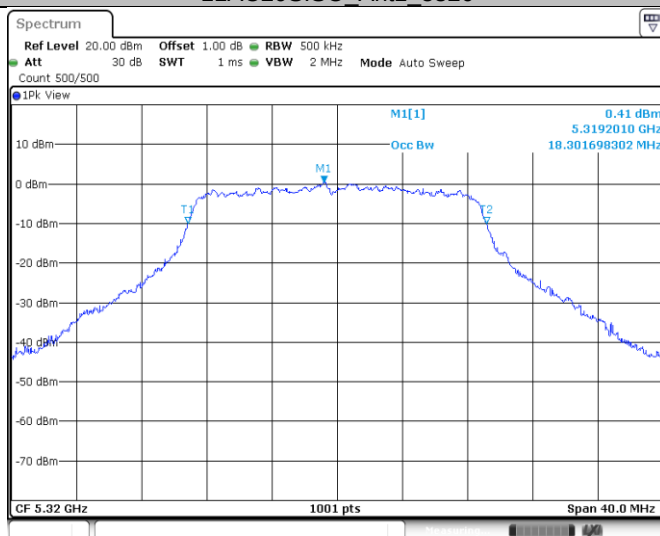
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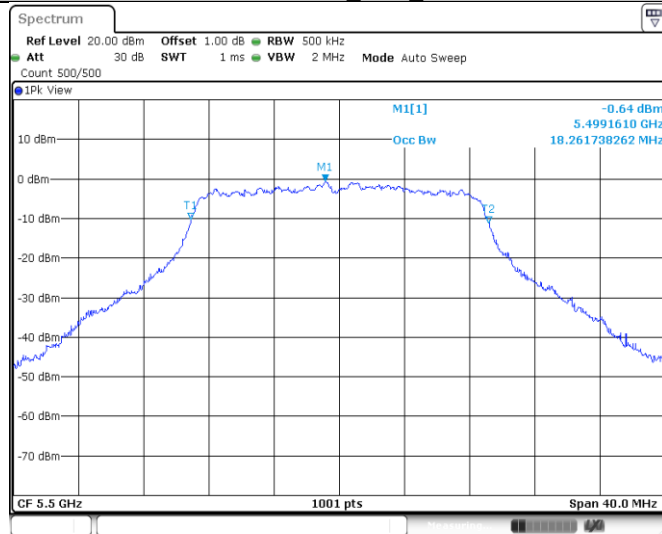
Date: 5 AUG 2023 18:26:09

11AC20SISO_Ant1_5320



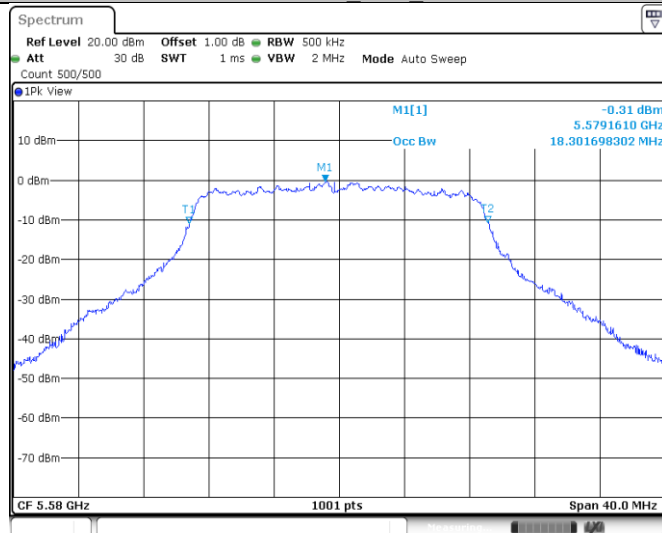
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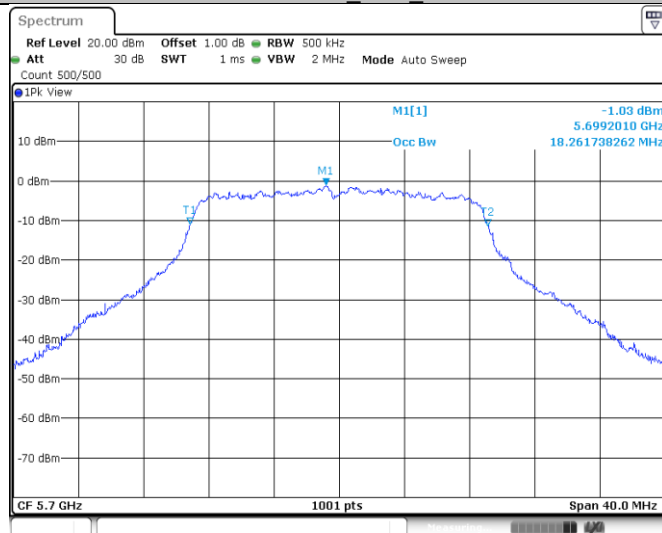
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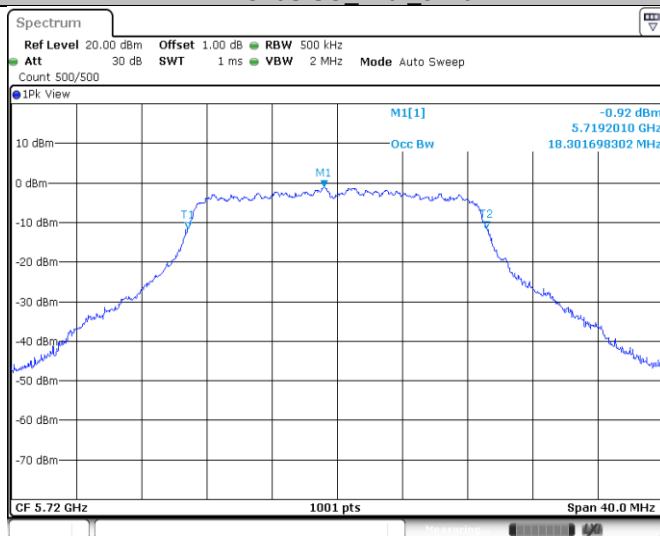
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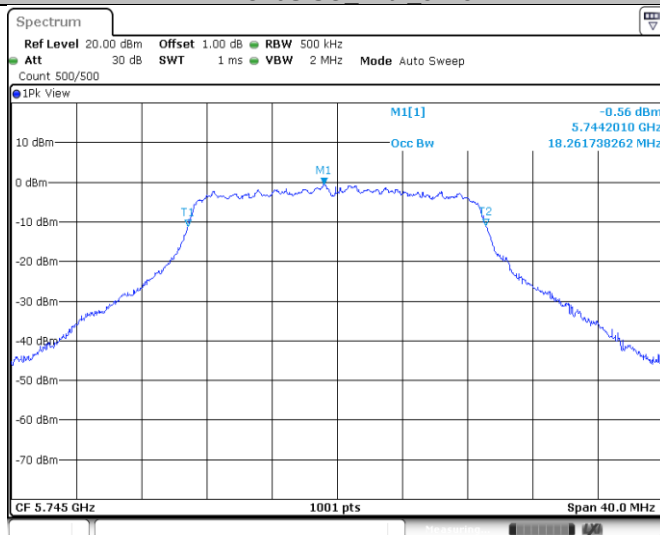
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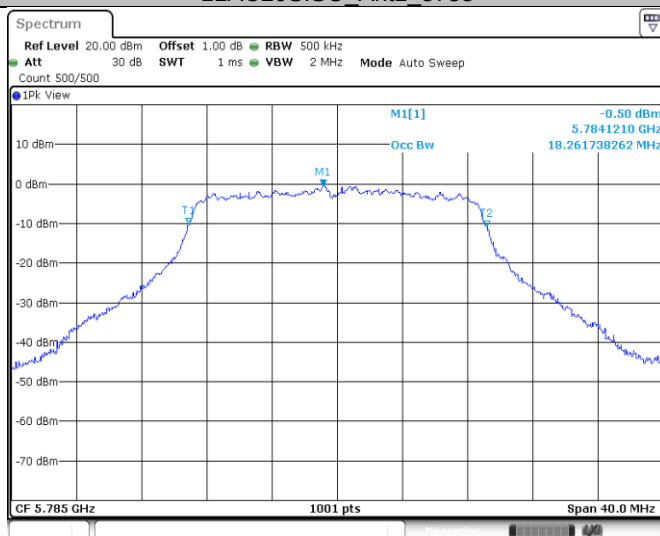
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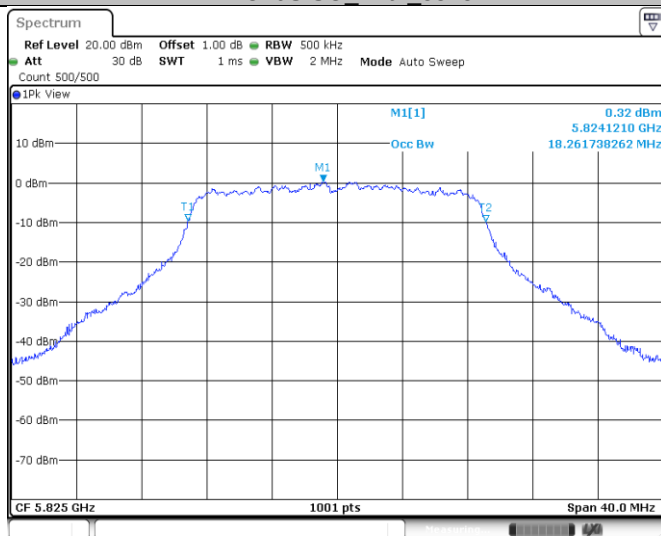
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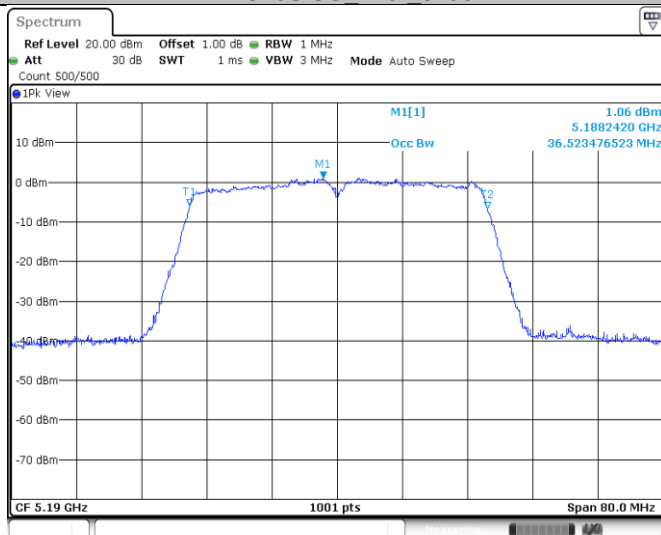
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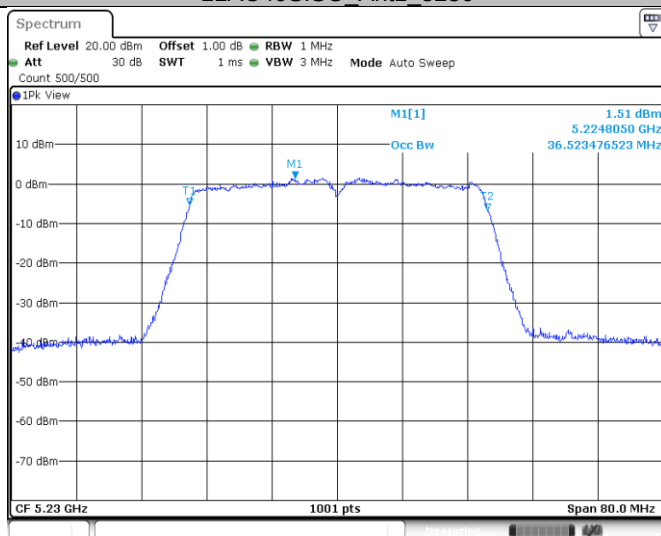
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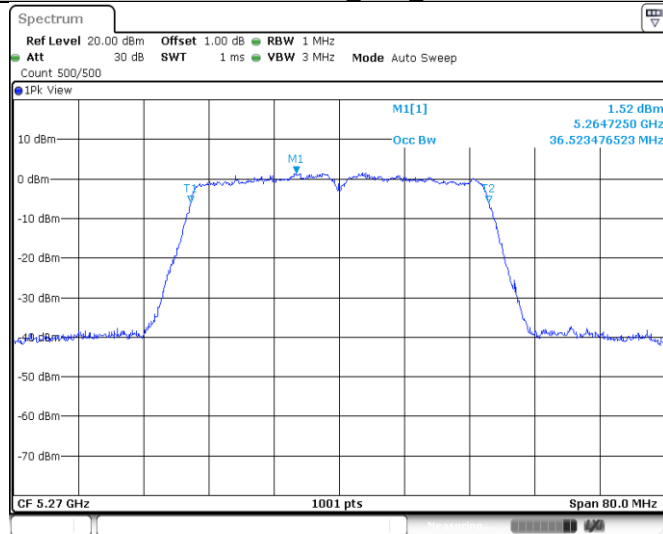
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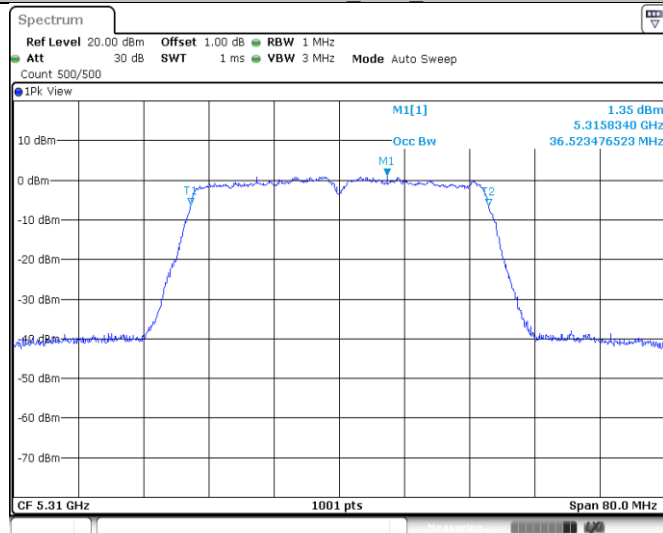
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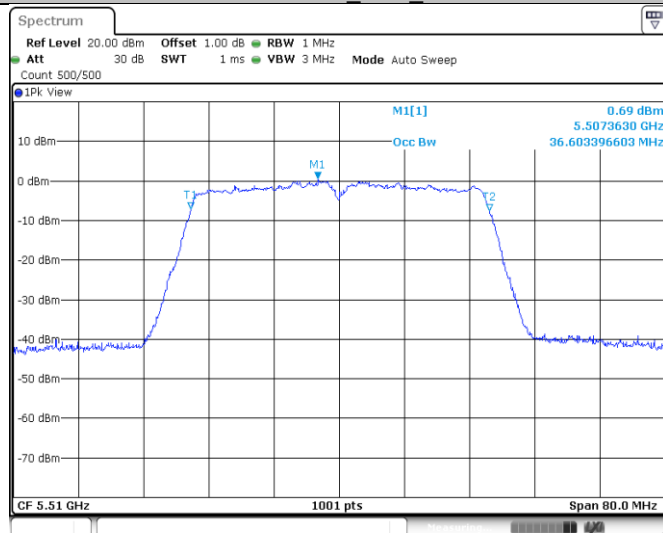
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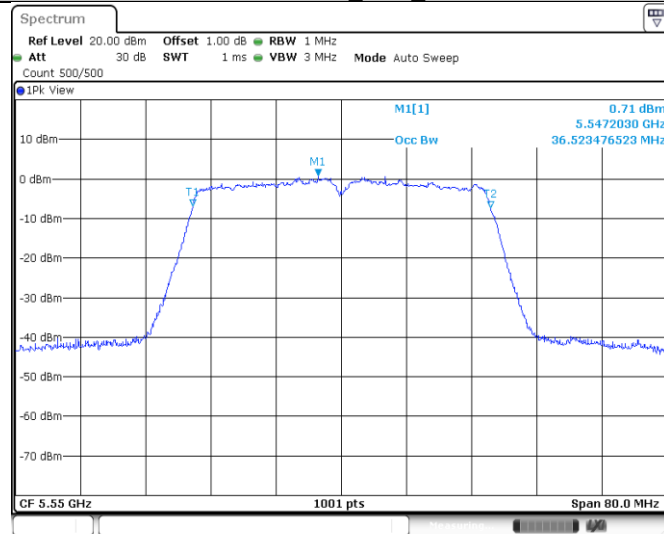
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11AC40SISO_Ant1_5510



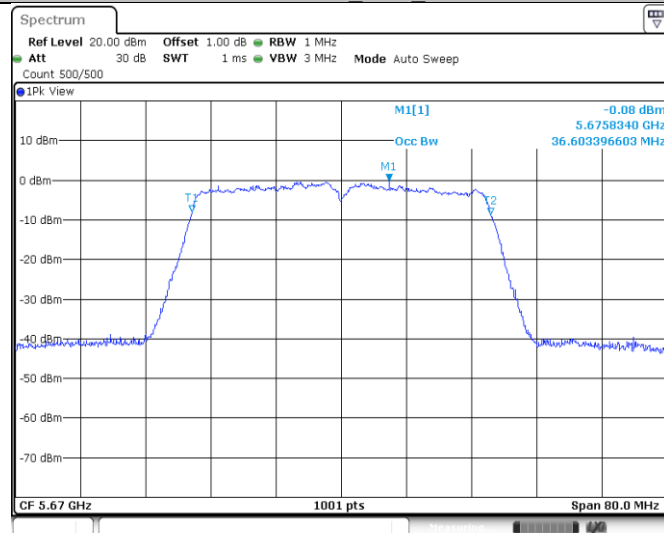
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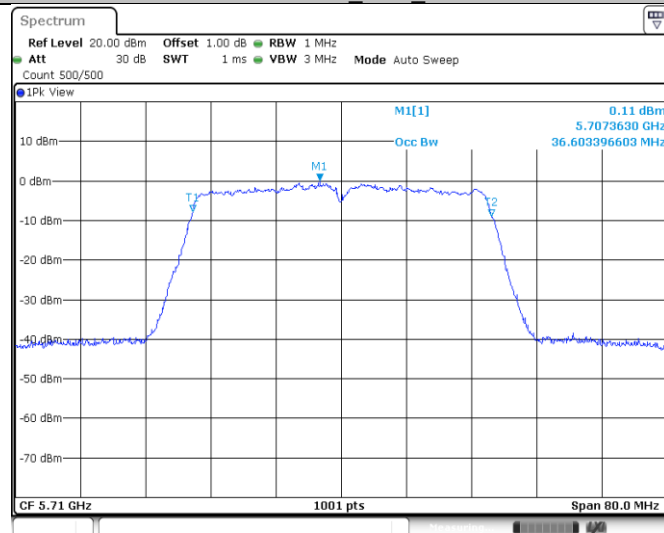
Date: 5 AUG 2023 18:51:10

11AC40SISO_Ant1_5670



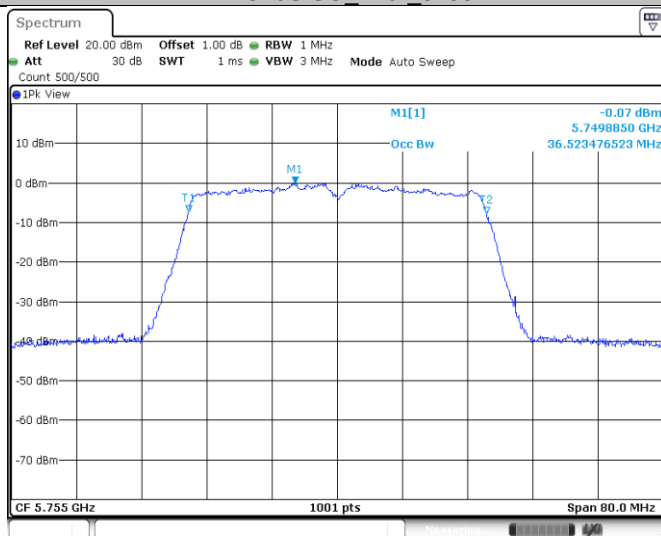
Date: 5 AUG 2023 18:52:51

11AC40SISO_Ant1_5710



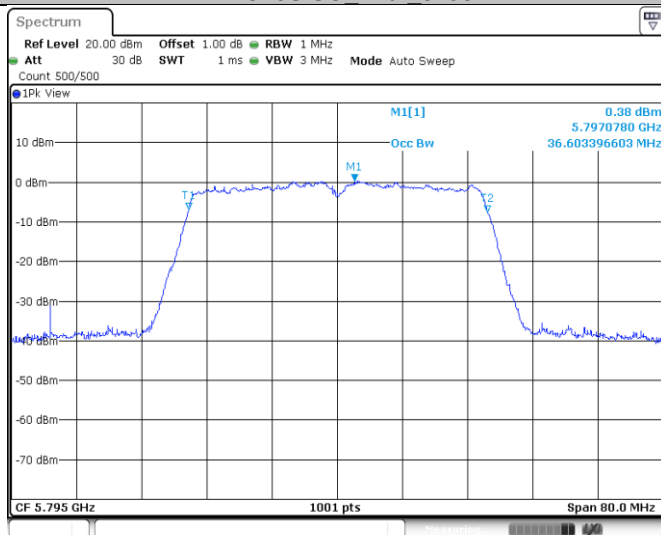
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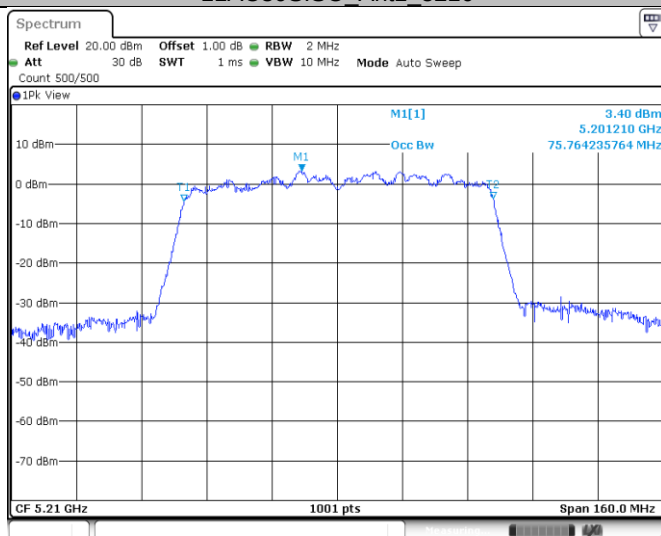
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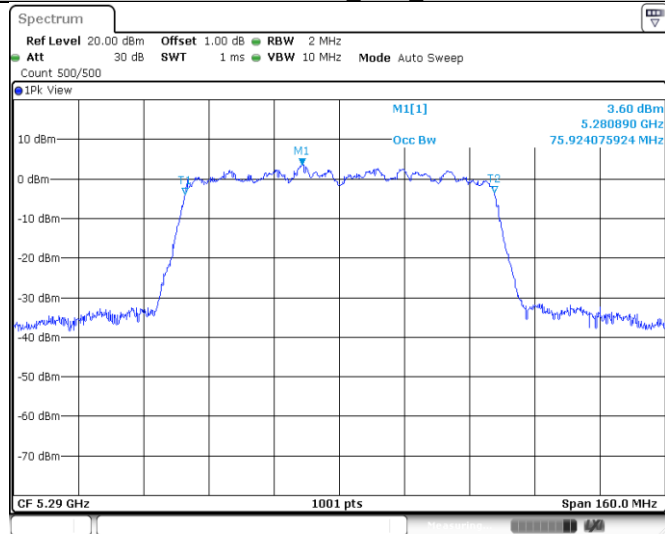
Date: 5 AUG 2023 18:59:15

11AC80SISO_Ant1_5210



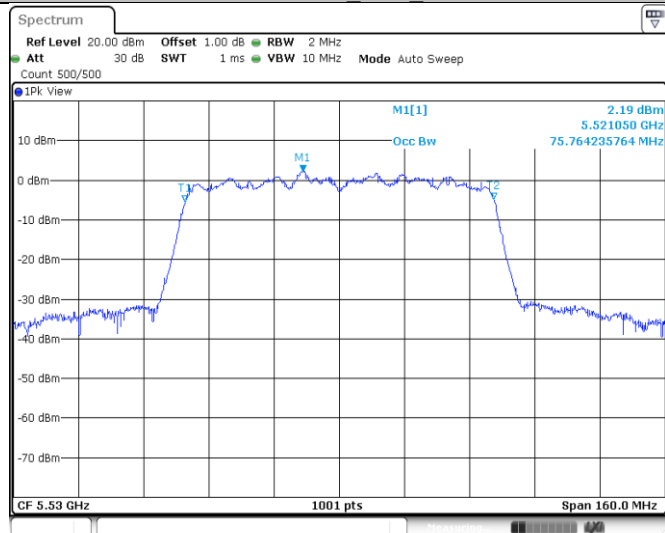
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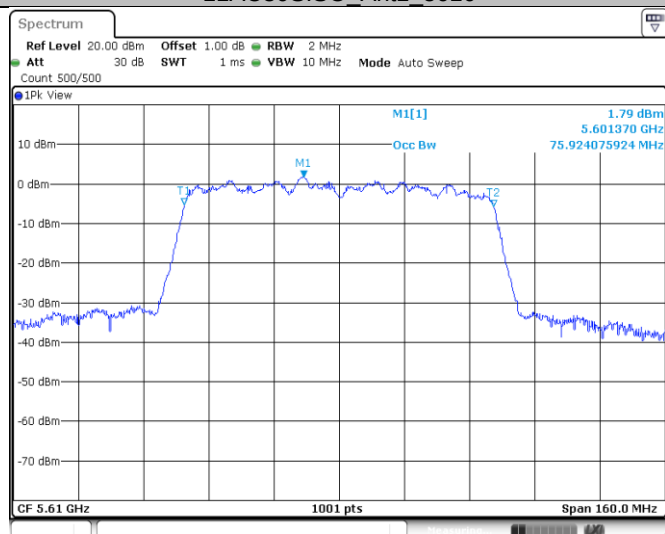
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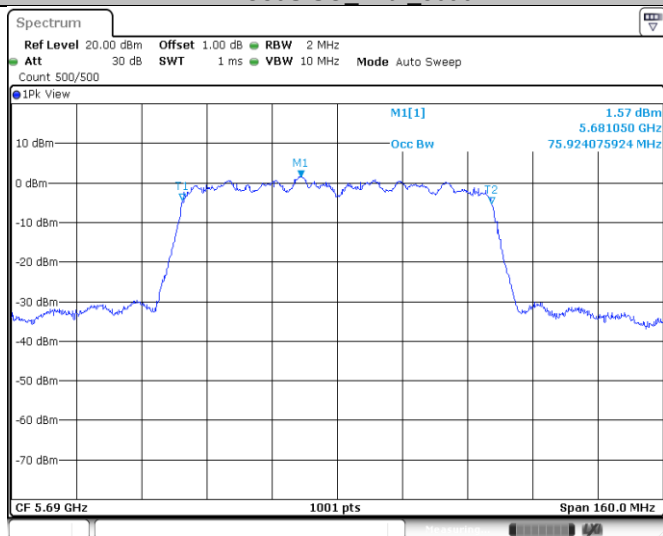
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11AC80SISO_Ant1_5610



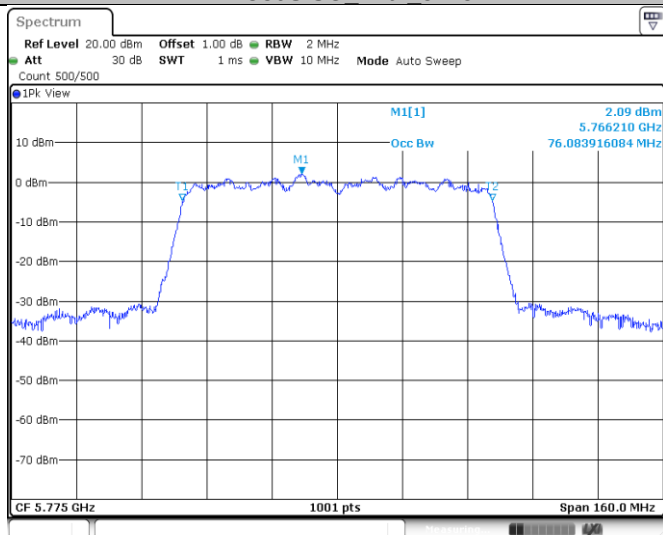
Date: 5 AUG 2023 19:10:12

11AC80SISO_Ant1_5690



Date: 5 AUG 2023 19:12:08

11AC80SISO_Ant1_5775



Date: 5 AUG 2023 19:14:55

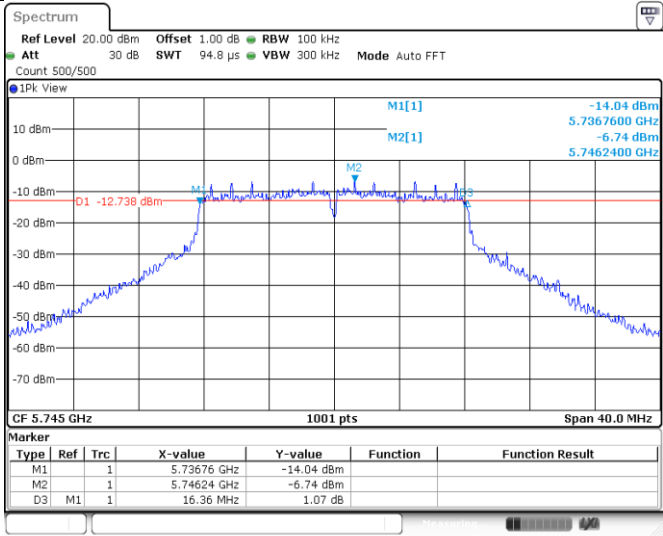
6dB Bandwidth Test Result

Test Mode	Channel Frequency (MHz)	Measured 6 dB Bandwidth (MHz)	FL [MHz]	FH [MHz]	Limit [MHz]
11A	5745	16.360	5736.760	5753.120	0.5
	5785	15.840	5777.040	5792.880	0.5
	5825	15.200	5817.360	5832.560	0.5
11N20	5745	16.880	5736.520	5753.400	0.5
	5785	16.040	5776.520	5792.560	0.5
	5825	16.040	5816.520	5832.560	0.5
11N40	5755	35.520	5737.080	5772.600	0.5
	5795	35.840	5777.160	5813.000	0.5
11AC20	5745	16.040	5736.520	5752.560	0.5
	5785	16.040	5776.520	5792.560	0.5
	5825	16.840	5816.520	5833.360	0.5
11AC40	5755	35.600	5737.000	5772.600	0.5
	5795	35.920	5777.080	5813.000	0.5
11AC80	5775	75.520	5737.240	5812.760	0.5

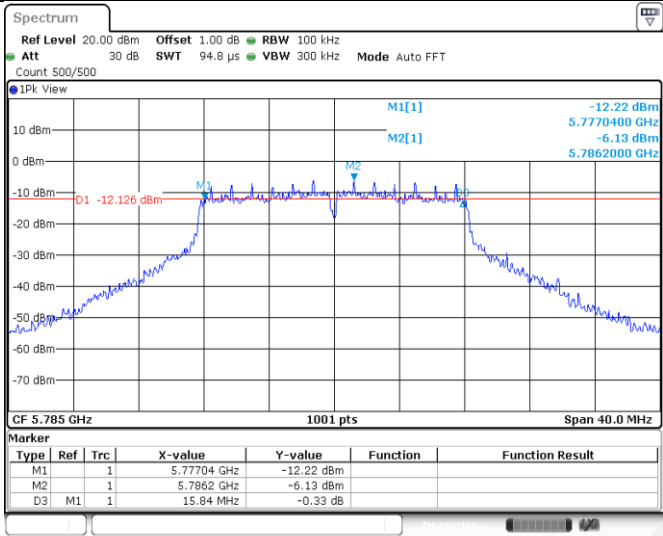


6dB Bandwidth as below:

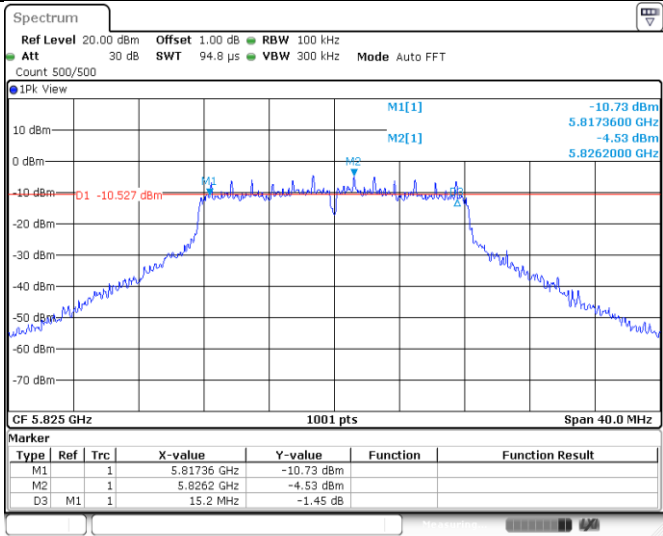
11A_Ant1_5745



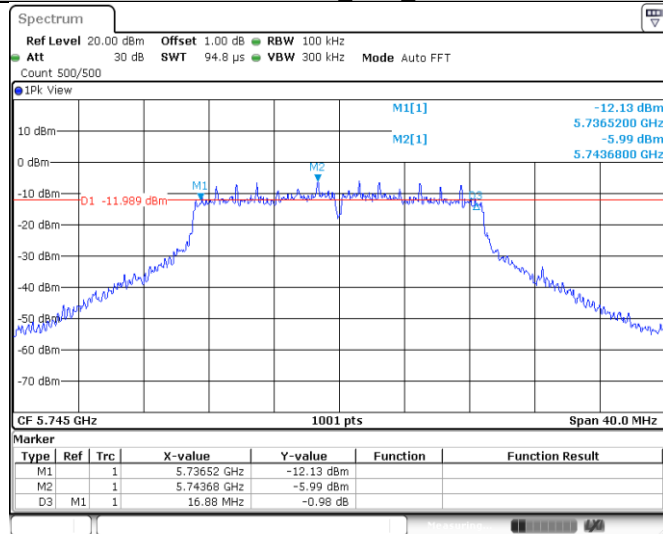
11A_Ant1_5785



11A_Ant1_5825

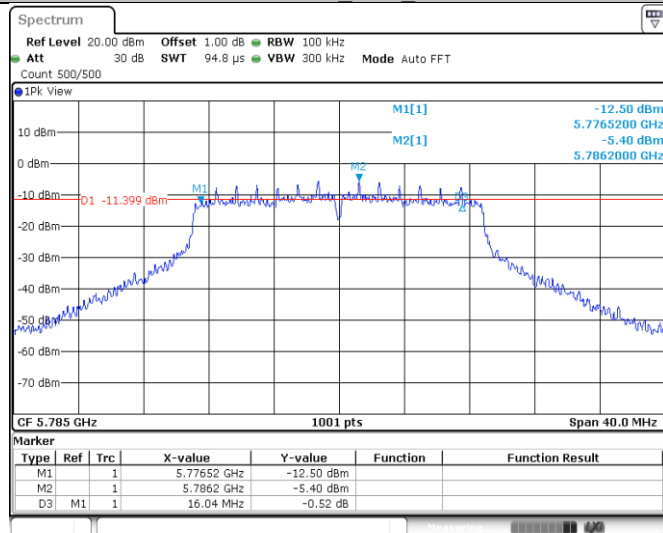


11N20SISO Ant1 5745



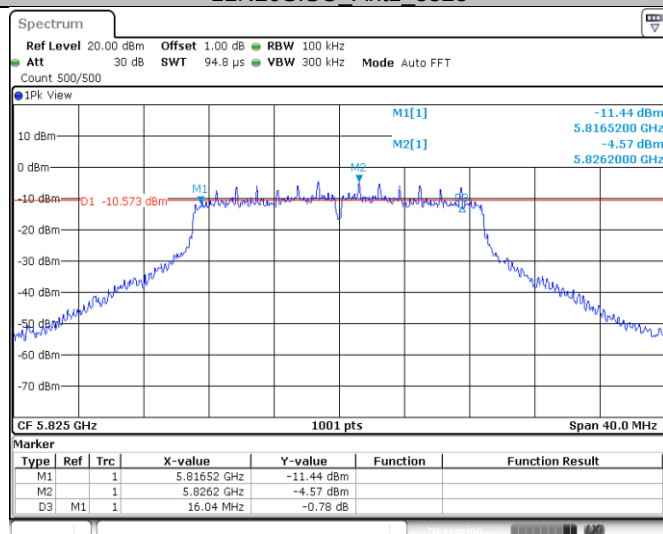
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11N20SISO Ant1 5785

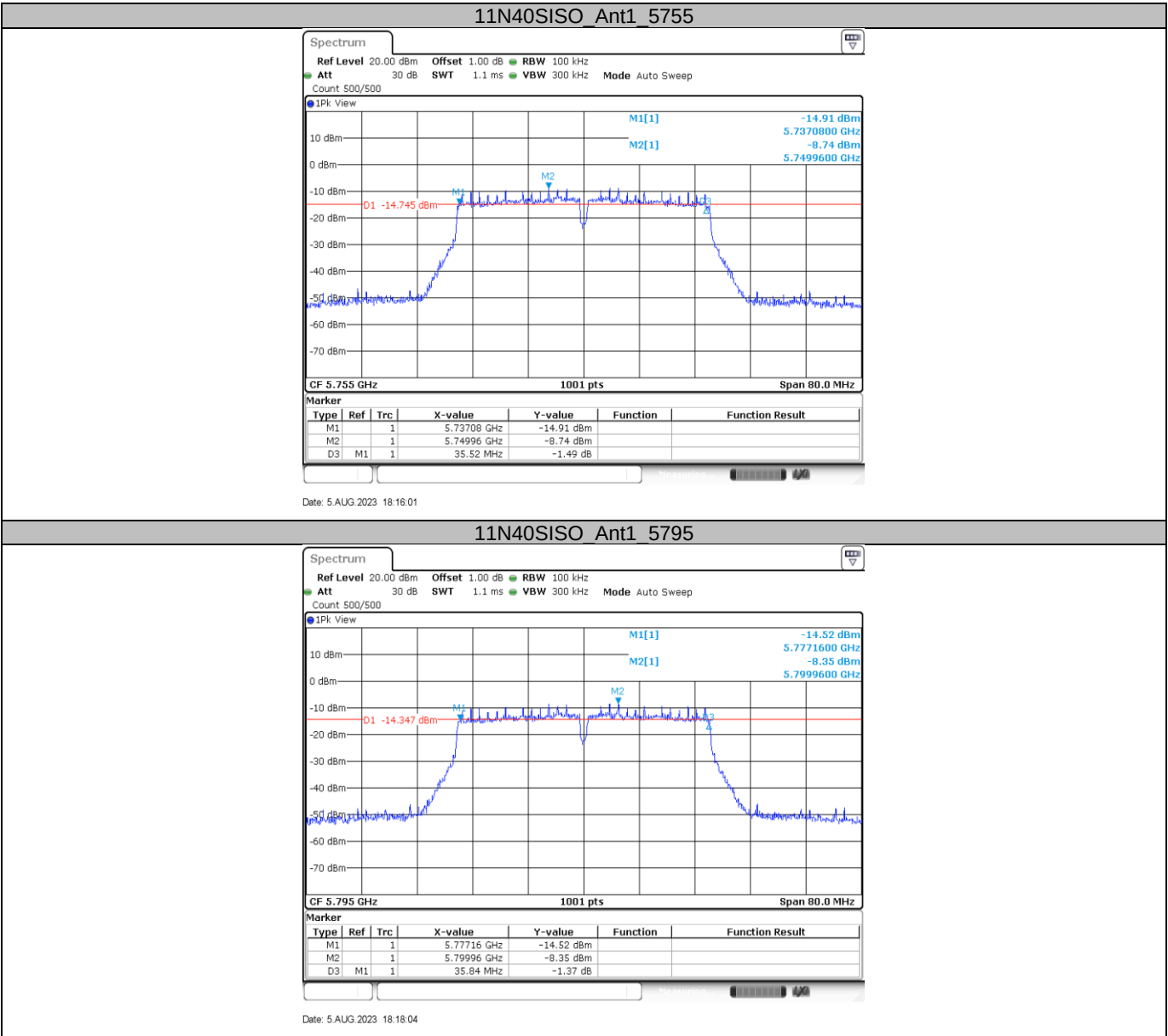


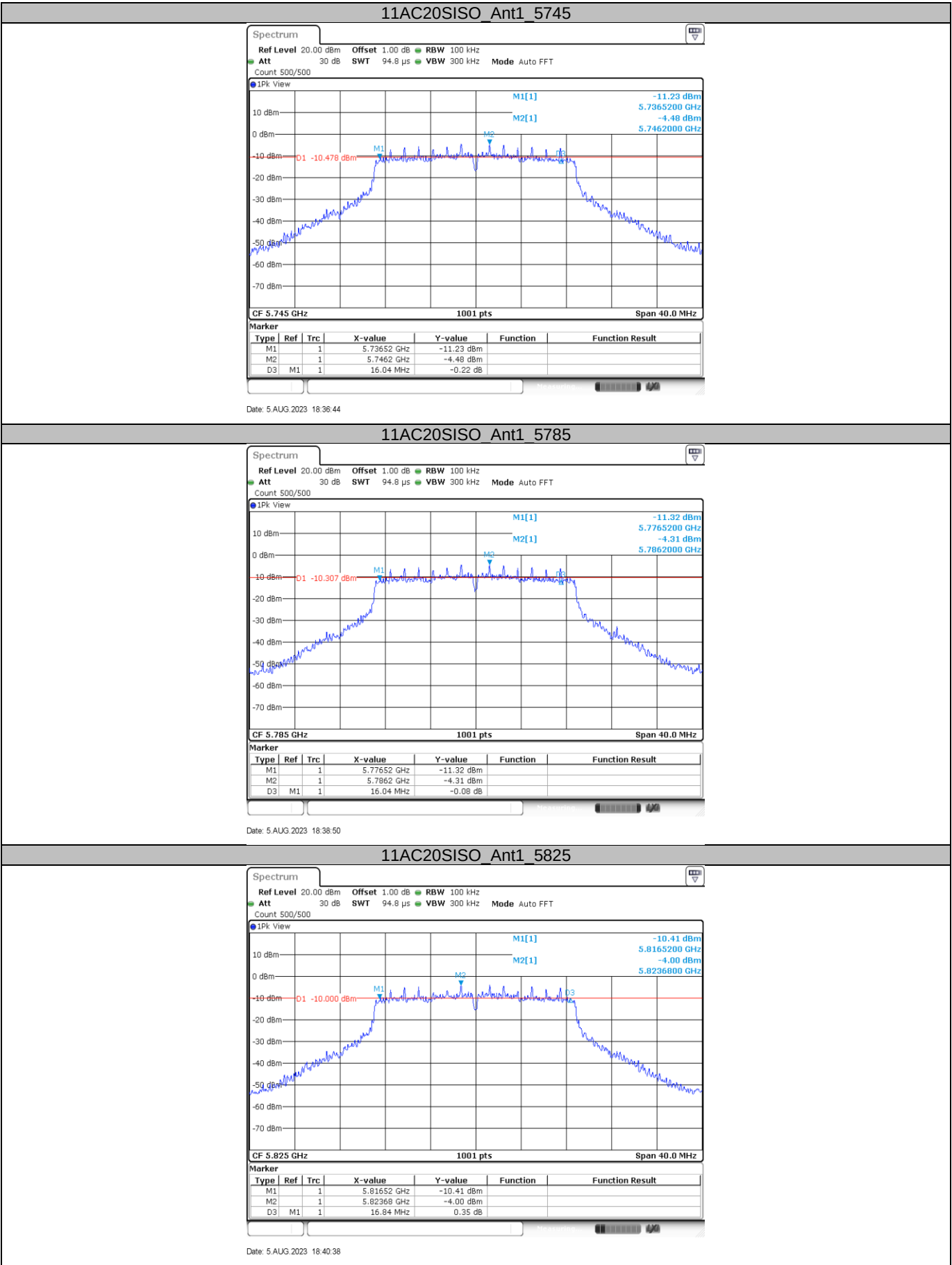
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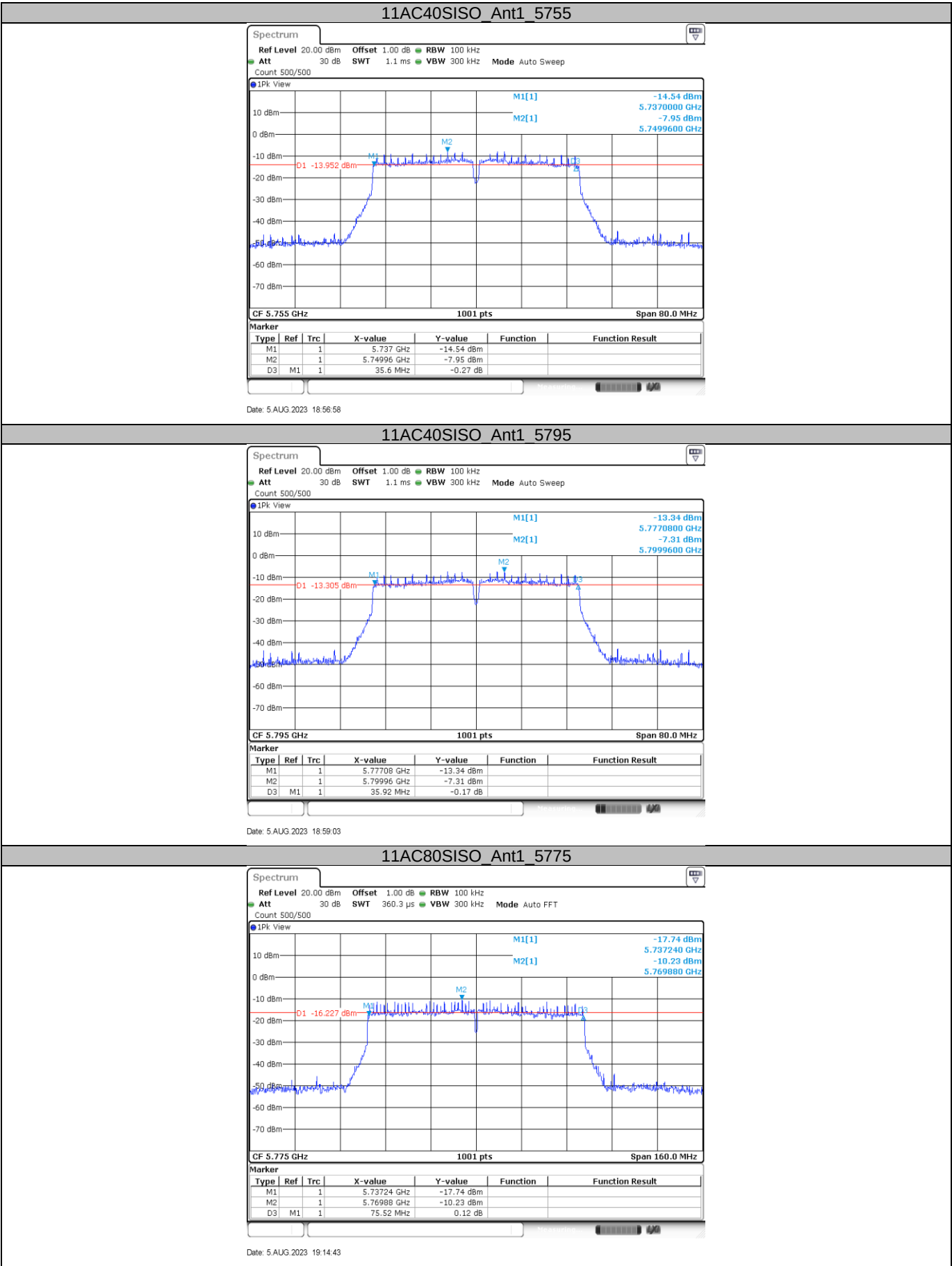
11N20SISO Ant1 5825



Date: 5 AUG 2023 17:58:58







9.3 Maximum conducted output power

Test Method

According to C63.10, the EUT was placed on 0.8m height table, the RF output of EUT was connected to the test power meter by RF cable. The path loss was compensated to the results for each measurement.

1. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
2. The EUT is configured to transmit continuously or to transmit with a consistent duty cycle.
3. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
4. If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in 12.2 in C63.10-2020.
5. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
6. Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25%).

FCC Limits:

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

ISED Limits:

For client devices in the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$ dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

For the 5.25-5.35 GHz and 5.47-5.6GHz and 5.65-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$ dBm, whichever is less. B is the 99% emission bandwidth in megahertz. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$ dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

For the band 5.725-5.85 GHz, the maximum conducted output power shall not exceed 1W, if transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

NOTE 1 : EIRP= Maximum Conducted Output Power + ANT Gain

NOTE 2 : The FCC Power Limit concerned as the Fixed Limit Requirement for the worst result.

5.15 – 5.25 GHz band, the maximum conducted output power ≤ 250 mW (24dBm).

5.25 – 5.35 GHz and 5.47 – 5.725 GHz bands, the maximum conducted output power ≤ 250 mW(24dBm).

5.725 – 5.85 GHz band, the maximum conducted output power ≤ 1 W(30dBm).

Conducted output power for ISSED Limit

IEEE 802.11a modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $10+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-1	Low	5180	17.063	$22.32 < 23$	22.32
	Middle	5200	17.143	$22.34 < 23$	22.34
	High	5240	17.183	$22.35 < 23$	22.35
Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $11+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5260	17.103	$23.33 < 24$	23.33
	Middle	5280	17.183	$23.35 < 24$	23.35
	High	5320	17.183	$23.35 < 24$	23.35
U-NII-2C	Low	5500	17.103	$23.33 < 24$	23.33
	Middle	5580	17.143	$23.34 < 24$	23.34
	High	5700	17.143	$23.34 < 24$	23.34
		5720	17.103	$23.33 < 24$	23.33
U-NII-3	Low	5745	17.183	$23.35 < 24$	23.35
	Middle	5785	17.183	$23.35 < 24$	23.35
	High	5825	17.143	$23.34 < 24$	23.34

IEEE 802.11n-HT20 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $10+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-1	Low	5180	18.262	$22.62 < 23$	22.62
	Middle	5200	18.082	$22.57 < 23$	22.57
	High	5240	18.262	$22.62 < 23$	22.62
Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $11+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5260	18.262	$23.62 < 24$	23.62
	Middle	5280	18.262	$23.62 < 24$	23.62
	High	5320	18.302	$23.62 < 24$	23.62
U-NII-2C	Low	5500	18.302	$23.62 < 24$	23.62
	Middle	5580	18.302	$23.62 < 24$	23.62
	High	5700	18.302	$23.62 < 24$	23.62
		5720	18.262	$23.62 < 24$	23.62
U-NII-3	Low	5745	18.262	$23.62 < 24$	23.62
	Middle	5785	18.302	$23.62 < 24$	23.62
	High	5825	18.262	$23.62 < 24$	23.62

IEEE 802.11n-HT40 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $10+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-1	Low	5190	36.603	$25.63 > 23$	23
	High	5230	36.603	$25.63 > 23$	23
Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $11+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5270	36.603	$26.63 > 24$	24
	High	5310	36.603	$26.63 > 24$	24
U-NII-2C	Low	5510	36.603	$26.63 > 24$	24
	Middle	5550	36.603	$26.63 > 24$	24
	High	5670	36.603	$26.63 > 24$	24
		5710	36.683	$26.64 > 24$	24
U-NII-3	Low	5755	36.683	$26.64 > 24$	24
	High	5795	36.683	$26.64 > 24$	24

IEEE 802.11ac-VHT20 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $10+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-1	Low	5180	18.262	$22.26 < 23$	22.26
	Middle	5200	18.262	$22.26 < 23$	22.26
	High	5240	18.302	$22.26 < 23$	22.26
Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $11+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5260	18.262	$23.26 < 24$	23.26
	Middle	5280	18.262	$23.26 < 24$	23.26
	High	5320	18.302	$23.26 < 24$	23.26
U-NII-2C	Low	5500	18.262	$23.26 < 24$	23.26
	Middle	5580	18.302	$23.26 < 24$	23.26
	High	5700	18.262	$23.26 < 24$	23.26
		5720	18.262	$23.26 < 24$	23.26
U-NII-3	Low	5745	18.262	$23.26 < 24$	23.26
	Middle	5785	18.262	$23.26 < 24$	23.26
	High	5825	18.262	$23.26 < 24$	23.26

IEEE 802.11ac-VHT40 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $10+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-1	Low	5190	36.523	$25.63 > 23$	23
	High	5230	36.523	$25.63 > 23$	23
Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $11+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5270	36.523	$26.63 > 24$	24
	High	5310	36.523	$26.63 > 24$	24
U-NII-2C	Low	5510	36.603	$26.63 > 24$	24
	Middle	5550	36.523	$26.63 > 24$	24
	High	5670	36.603	$26.63 > 24$	24
		5710	36.603	$26.63 > 24$	24
U-NII-3	Low	5755	36.523	$26.63 > 24$	24
	High	5795	36.603	$26.63 > 24$	24

IEEE 802.11ac-VHT80 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $10+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-1	Low	5210	75.764	$28.79 > 23$	23
Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $11+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	High	5290	75.924	$29.79 > 24$	24
U-NII-2C	Low	5530	75.764	$29.79 > 24$	24
	High	5690	75.924	$29.79 > 24$	24
U-NII-3	155	5775	76.084	$29.79 > 24$	24

EIRP Limit:

IEEE 802.11a modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $17+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5260	17.103	$29.33 < 30$	29.33
	Middle	5280	17.183	$29.35 < 30$	29.35
	High	5320	17.183	$29.35 < 30$	29.35
U-NII-2C	Low	5500	17.103	$29.33 < 30$	29.33
	Middle	5580	17.143	$29.34 < 30$	29.34
	High	5700	17.143	$29.34 < 30$	29.34
		5720	17.103	$29.33 < 30$	29.33
U-NII-3	Low	5745	17.183	$29.35 < 30$	29.35
	Middle	5785	17.183	$29.35 < 30$	29.35
	High	5825	17.143	$29.34 < 30$	29.34

IEEE 802.11n-HT20 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $17+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5260	18.262	$29.62 < 30$	29.62
	Middle	5280	18.082	$29.57 < 30$	29.57
	High	5320	18.262	$29.62 < 30$	29.62
U-NII-2C	Low	5500	18.262	$29.62 < 30$	29.62
	Middle	5580	18.262	$29.62 < 30$	29.62
	High	5700	18.302	$29.62 < 30$	29.62
		5720	18.302	$29.62 < 30$	29.62
U-NII-3	Low	5745	18.262	$29.62 < 30$	29.62
	Middle	5785	18.302	$29.62 < 30$	29.62
	High	5825	18.262	$29.62 < 30$	29.62

IEEE 802.11n-HT40 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $17+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5270	36.603	$32.64 > 30$	30
	High	5310	36.603	$32.64 > 30$	30
U-NII-2C	Low	5510	36.603	$32.64 > 30$	30
	Middle	5550	36.603	$32.64 > 30$	30
	High	5670	36.603	$32.64 > 30$	30
		5710	36.603	$32.64 > 30$	30
U-NII-3	Low	5755	36.683	$32.64 > 30$	30
	High	5795	36.683	$32.64 > 30$	30

IEEE 802.11ac-VHT20 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $17+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5260	18.262	$29.62 < 30$	29.62
	Middle	5280	18.262	$29.62 < 30$	29.62
	High	5320	18.302	$29.62 < 30$	29.62
U-NII-2C	Low	5500	18.262	$29.62 < 30$	29.62
	Middle	5580	18.262	$29.62 < 30$	29.62
	High	5700	18.302	$29.62 < 30$	29.62
		5720	18.262	$29.62 < 30$	29.62
U-NII-3	Low	5745	18.262	$29.62 < 30$	29.62
	Middle	5785	18.262	$29.62 < 30$	29.62
	High	5825	18.262	$29.62 < 30$	29.62

IEEE 802.11ac-VHT40 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $17+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	Low	5270	36.523	$32.64 > 30$	30
	High	5310	36.523	$32.64 > 30$	30
U-NII-2C	Low	5510	36.603	$32.64 > 30$	30
	Middle	5550	36.523	$32.64 > 30$	30
	High	5670	36.603	$32.64 > 30$	30
		5710	36.603	$32.64 > 30$	30
U-NII-3	Low	5755	36.523	$32.64 > 30$	30
	High	5795	36.603	$32.64 > 30$	30

IEEE 802.11ac-VHT80 modulation

Band	Channel	Frequency (MHz)	B=99% bandwidth (MHz)	Limit $17+10\log_{10}B$ (dBm)	Final Limit (dBm)
U-NII-2A	High	5290	75.924	$35.80 > 30$	30
U-NII-2C	Low	5530	75.764	$35.80 > 30$	30
	High	5690	75.924	$35.80 > 30$	30
U-NII-3	155	5775	76.084	$35.81 > 30$	30

Test result:**IEEE 802.11a modulation Test Result**

Band	Channel	Channel Frequency (MHz)	Maximum Conducted Output Power (dBm)	Power Limit (dBm)		Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				FCC	ISED			
U-NII-1	Low	5180	4.50	≤ 24	≤ 22.32	5.53	10.05	≤ 22.32
	Middle	5200	5.12	≤ 24	≤ 22.34	5.53	10.65	≤ 22.34
	High	5240	4.53	≤ 24	≤ 22.35	5.53	10.06	≤ 22.35
U-NII-2A	Low	5260	4.53	≤ 24	≤ 23.33	5.53	10.06	≤ 29.33
	Middle	5280	4.36	≤ 24	≤ 23.35	5.53	9.89	≤ 29.35
	High	5320	3.70	≤ 24	≤ 23.35	5.53	9.23	≤ 29.35
U-NII-2C	Low	5500	2.71	≤ 24	≤ 23.33	5.53	8.24	≤ 29.33
	Middle	5580	2.93	≤ 24	≤ 23.34	5.53	8.46	≤ 29.34
	High	5700	2.12	≤ 24	≤ 23.34	5.53	8.7	≤ 29.34
		5720	1.56	≤ 24	≤ 23.33	5.53	7.09	≤ 29.33
U-NII-3	Low	5745	2.78	≤ 30	≤ 23.35	5.53	8.31	≤ 29.35
	Middle	5785	2.74	≤ 30	≤ 23.35	5.53	8.27	≤ 29.35
	High	5825	3.61	≤ 30	≤ 23.34	5.53	9.14	≤ 29.34

IEEE 802.11n-HT20 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum Conducted Output Power (dBm)	Power Limit (dBm)		Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				FCC	ISED			
U-NII-1	Low	5180	3.12	≤ 24	≤ 22.62	5.53	8.65	≤ 22.62
	Middle	5200	3.77	≤ 24	≤ 22.57	5.53	9.3	≤ 22.57
	High	5240	4.17	≤ 24	≤ 22.62	5.53	9.7	≤ 22.62
U-NII-2A	Low	5260	4.14	≤ 24	≤ 23.62	5.53	9.67	≤ 29.62
	Middle	5280	3.96	≤ 24	≤ 23.62	5.53	9.49	≤ 29.57
	High	5320	3.31	≤ 24	≤ 23.62	5.53	8.84	≤ 29.62
U-NII-2C	Low	5500	2.34	≤ 24	≤ 23.62	5.53	7.87	≤ 29.62
	Middle	5580	2.60	≤ 24	≤ 23.62	5.53	8.13	≤ 29.62
	High	5700	1.81	≤ 24	≤ 23.62	5.53	7.34	≤ 29.62
		5720	1.09	≤ 24	≤ 23.62	5.53	6.61	≤ 29.62
U-NII-3	Low	5745	2.40	≤ 30	≤ 23.62	5.53	7.93	≤ 29.62
	Middle	5785	2.40	≤ 30	≤ 23.62	5.53	7.93	≤ 29.62
	High	5825	3.27	≤ 30	≤ 23.62	5.53	8.8	≤ 29.62

IEEE 802.11n-HT40 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum Conducted Output Power (dBm)	Power Limit (dBm)		Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				FCC	ISED			
U-NII-1	Low	5190	3.54	≤ 24	≤ 23	5.53	9.07	≤ 23
	High	5230	4.20	≤ 24	≤ 23	5.53	9.73	≤ 23
U-NII-2A	Low	5270	4.18	≤ 24	≤ 24	5.53	9.63	≤ 24
	High	5310	3.66	≤ 24	≤ 24	5.53	9.19	≤ 30
U-NII-2C	Low	5510	2.56	≤ 24	≤ 24	5.53	8.09	≤ 30
	Middle	5550	2.85	≤ 24	≤ 24	5.53	8.38	≤ 30
	High	5670	1.98	≤ 24	≤ 24	5.53	7.51	≤ 30
		5720	1.55	≤ 24	≤ 24	5.53	7.08	≤ 30
U-NII-3	Low	5755	2.46	≤ 30	≤ 30	5.53	7.99	≤ 30
	High	5795	2.78	≤ 30	≤ 30	5.53	8.31	≤ 30

IEEE 802.11ac-VHT20 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum Conducted Output Power (dBm)	Power Limit (dBm)		Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				FCC	ISED			
U-NII-1	Low	5180	4.15	≤ 24	≤ 22.26	5.53	9.86	≤ 22.26
	Middle	5200	4.78	≤ 24	≤ 22.26	5.53	10.31	≤ 22.26
	High	5240	4.96	≤ 24	≤ 22.26	5.53	10.49	≤ 22.26
U-NII-2A	Low	5260	4.96	≤ 24	≤ 23.26	5.53	10.49	≤ 29.62
	Middle	5280	4.83	≤ 24	≤ 23.26	5.53	10.36	≤ 29.62
	High	5320	4.31	≤ 24	≤ 23.26	5.53	9.84	≤ 29.62
U-NII-2C	Low	5500	3.23	≤ 24	≤ 23.26	5.53	8.76	≤ 29.62
	Middle	5580	3.51	≤ 24	≤ 23.26	5.53	9.04	≤ 29.62
	High	5700	2.75	≤ 24	≤ 23.26	5.53	8.28	≤ 29.62
		5720	2.05	≤ 24	≤ 23.26	5.53	7.58	≤ 29.62
U-NII-3	Low	5745	3.25	≤ 30	≤ 23.26	5.53	8.78	≤ 29.62
	Middle	5785	3.48	≤ 30	≤ 29.62	5.53	9.01	≤ 29.62
	High	5825	4.34	≤ 30	≤ 29.62	5.53	9.87	≤ 29.62

IEEE 802.11ac-VHT40 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum Conducted Output Power (dBm)	Power Limit (dBm)		Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				FCC	ISED			
U-NII-1	Low	5190	3.49	≤ 24	≤ 23	5.53	9.02	≤ 23
	High	5230	4.04	≤ 24	≤ 23	5.53	9.57	≤ 23
U-NII-2A	Low	5270	4.03	≤ 24	≤ 24	5.53	9.56	≤ 24
	High	5310	3.57	≤ 24	≤ 24	5.53	9.1	≤ 30
U-NII-2C	Low	5510	2.49	≤ 24	≤ 24	5.53	8.02	≤ 30
	Middle	5550	2.73	≤ 24	≤ 24	5.53	8.26	≤ 30
	High	5670	1.96	≤ 24	≤ 24	5.53	7.49	≤ 30
		5720	1.63	≤ 24	≤ 24	5.53	7.16	≤ 30
U-NII-3	Low	5755	2.31	≤ 30	≤ 30	5.53	7.84	≤ 30
	High	5795	2.91	≤ 30	≤ 30	5.53	8.44	≤ 30

IEEE 802.11ac-VHT80 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum Conducted Output Power (dBm)	Power Limit (dBm)		Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
				FCC	ISED			
U-NII-1	Low	5210	3.46	≤ 24	≤ 23	5.53	8.99	≤ 23
U-NII-2A	High	5290	3.45	≤ 24	≤ 24	5.53	8.98	≤ 30
U-NII-2C	Low	5530	2.31	≤ 24	≤ 24	5.53	7.84	≤ 30
	High	5690	1.55	≤ 24	≤ 24	5.53	7.08	≤ 30
U-NII-3	High	5755	2.29	≤ 30	≤ 30	5.53	7.81	≤ 30

9.4 Maximum power spectral density

Test Method

Test Method (Method SA-2 in C63.10-2020)

The EUT was placed on 0.8m height table, the RF output of EUT was connected to the test receiver by RF cable. The path loss was compensated to the results for each measurement. (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. Measure the duty cycle.
2. Set span to encompass the entire emission bandwidth (EBW) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW $\geq$ 3 MHz.
5. Number of points in sweep $\geq$ 2 Span / RBW.
6. Sweep time = auto.
7. Detector = RMS
8. Trace average at least 100 traces in power averaging mode.
9. 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. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

Limit:

FCC Limits:

The maximum power spectral density shall not exceed 11dBm for the 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725 GHz Band in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band.

ISED Limits:

For client devices in the 5.15-5.25 GHz band, the maximum spectral density shall not exceed 10 dBm in any 1.0 MHz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the power spectral density shall not exceed 11 dBm in any 1.0 MHz.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500kHz band.

Test result as below table

IEEE 802.11a modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/MHz)	ISED PSD Limit (dBm/MHz)
U-NII-1	Low	5180	-3.9	≤ 11.00	≤ 10.00
	Middle	5200	-3.41	≤ 11.00	≤ 10.00
	High	5240	-4.17	≤ 11.00	≤ 10.00
U-NII-2A	Low	5260	-3.83	≤ 11.00	≤ 11.00
	Middle	5280	-4.19	≤ 11.00	≤ 11.00
	High	5320	-4.51	≤ 11.00	≤ 11.00
U-NII-2C	Low	5500	-5.69	≤ 11.00	≤ 11.00
	Middle	5580	-5.49	≤ 11.00	≤ 11.00
	High	5700	-6.28	≤ 11.00	≤ 11.00
Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/500kHz)	ISED PSD Limit (dBm/500kHz)
U-NII-3	Low	5745	-7.93	≤ 30.00	≤ 30.00
	Middle	5785	-7.9	≤ 30.00	≤ 30.00
	High	5825	-6.83	≤ 30.00	≤ 30.00

IEEE 802.11n-HT20 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/MHz)	ISED PSD Limit (dBm/MHz)
U-NII-1	Low	5180	-5.14	≤ 11.00	≤ 10.00
	Middle	5200	-4.46	≤ 11.00	≤ 10.00
	High	5240	-4	≤ 11.00	≤ 10.00
U-NII-2A	Low	5260	-4.05	≤ 11.00	≤ 11.00
	Middle	5280	-4.23	≤ 11.00	≤ 11.00
	High	5320	-4.75	≤ 11.00	≤ 11.00
U-NII-2C	Low	5500	-5.82	≤ 11.00	≤ 11.00
	Middle	5580	-5.63	≤ 11.00	≤ 11.00
	High	5700	-6.47	≤ 11.00	≤ 11.00
Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/500kHz)	ISED PSD Limit (dBm/500kHz)
U-NII-3	Low	5745	-7.6	≤ 30.00	≤ 30.00
	Middle	5785	-7.68	≤ 30.00	≤ 30.00
	High	5825	-6.78	≤ 30.00	≤ 30.00

IEEE 802.11n-HT40 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/MHz)	ISED PSD Limit (dBm/MHz)
U-NII-1	Low	5190	-7.73	≤ 11.00	≤ 10.00
	High	5230	-7.03	≤ 11.00	≤ 10.00
U-NII-2A	Low	5270	-7.1	≤ 11.00	≤ 10.00
	High	5310	-7.56	≤ 11.00	≤ 11.00
U-NII-2C	Low	5510	-8.66	≤ 11.00	≤ 11.00
	Middle	5550	-8.39	≤ 11.00	≤ 11.00
	High	5670	-9.19	≤ 11.00	≤ 11.00
Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/500kHz)	ISED PSD Limit (dBm/500kHz)
U-NII-3	Low	5755	-10.76	≤ 30.00	≤ 30.00
	High	5795	-10.77	≤ 30.00	≤ 30.00

IEEE 802.11ac-VHT20 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/MHz)	ISED PSD Limit (dBm/MHz)
U-NII-1	Low	5180	-3.91	≤ 11.00	≤ 10.00
	Middle	5200	-3.31	≤ 11.00	≤ 10.00
	High	5240	-3.2	≤ 11.00	≤ 10.00
U-NII-2A	Low	5260	-3.18	≤ 11.00	≤ 11.00
	Middle	5280	-3.27	≤ 11.00	≤ 11.00
	High	5320	-3.97	≤ 11.00	≤ 11.00
U-NII-2C	Low	5500	-4.85	≤ 11.00	≤ 11.00
	Middle	5580	-4.54	≤ 11.00	≤ 11.00
	High	5700	-5.36	≤ 11.00	≤ 11.00
Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/500kHz)	ISED PSD Limit (dBm/500kHz)
U-NII-3	Low	5745	-6.5	≤ 30.00	≤ 30.00
	Middle	5785	-6.36	≤ 30.00	≤ 30.00
	High	5825	-5.49	≤ 30.00	≤ 30.00

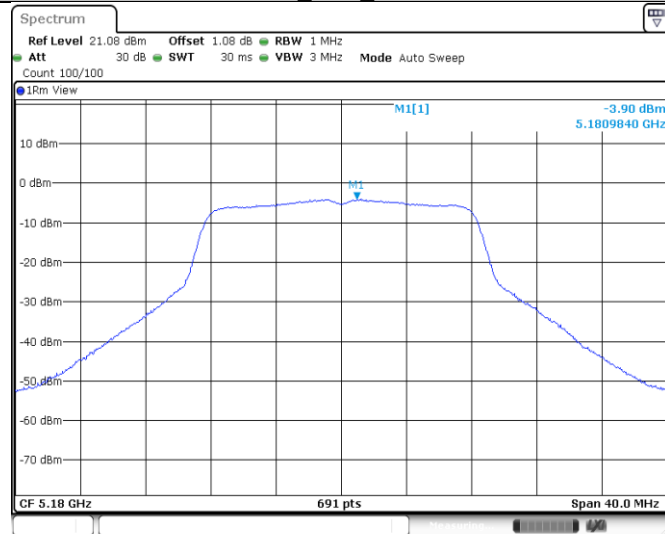
IEEE 802.11ac-VHT40 modulation Test Result

Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/MHz)	ISED PSD Limit (dBm/MHz)
U-NII-1	Low	5190	-6.59	≤ 11.00	≤ 10.00
	High	5230	-6.18	≤ 11.00	≤ 10.00
U-NII-2A	Low	5270	-6.17	≤ 11.00	≤ 10.00
	High	5310	-6.66	≤ 11.00	≤ 11.00
U-NII-2C	Low	5510	-7.8	≤ 11.00	≤ 11.00
	Middle	5550	-7.51	≤ 11.00	≤ 11.00
	High	5670	-8.2	≤ 11.00	≤ 11.00
Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/500kHz)	ISED PSD Limit (dBm/500kHz)
U-NII-3	Low	5755	-9.97	≤ 30.00	≤ 30.00
	High	5795	-9.62	≤ 30.00	≤ 30.00

IEEE 802.11ac-VHT80 modulation Test Result

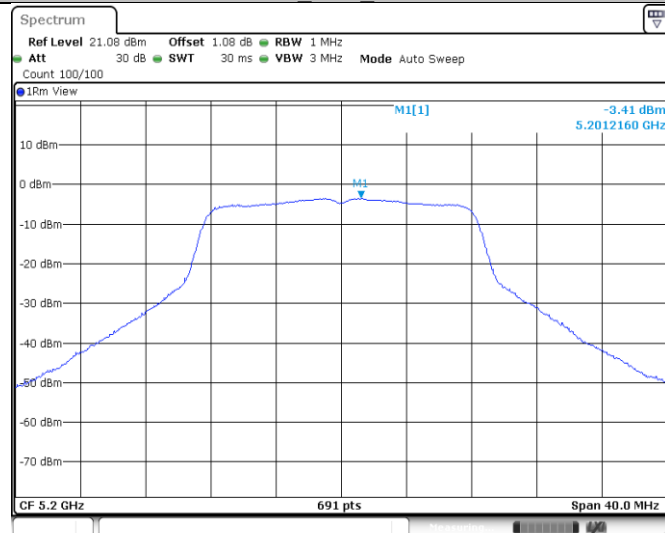
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U-NII-1	Low	5210	-8.93	≤ 11.00	≤ 10.00
U-NII-2A	High	5290	-8.96	≤ 11.00	≤ 11.00
U-NII-2C	Low	5530	-10.35	≤ 11.00	≤ 11.00
	Middle	5610	-10.76	≤ 11.00	≤ 11.00
	High	5690	-10.77	≤ 11.00	≤ 11.00
Band	Channel	Channel Frequency (MHz)	Maximum PSD (dBm/MHz)	FCC PSD Limit (dBm/500kHz)	ISED PSD Limit (dBm/500kHz)
U-NII-3	High	5775	-12.28	≤ 30.00	≤ 30.00

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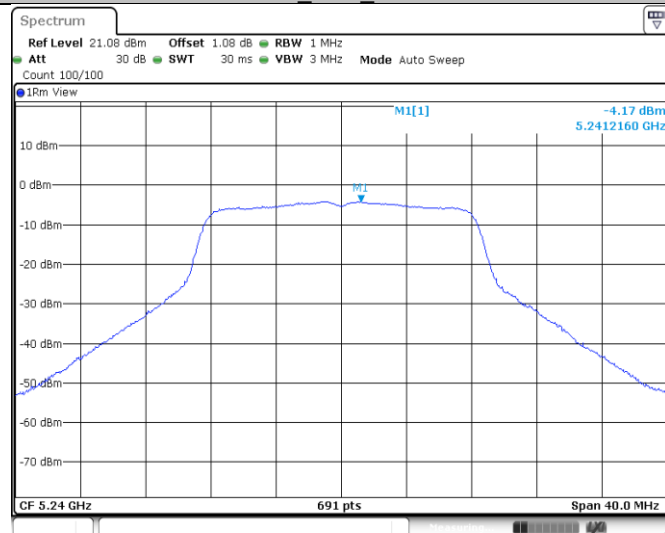
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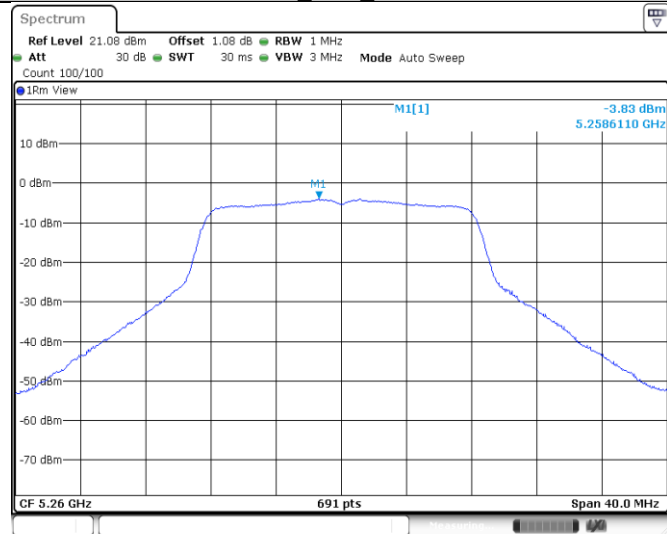
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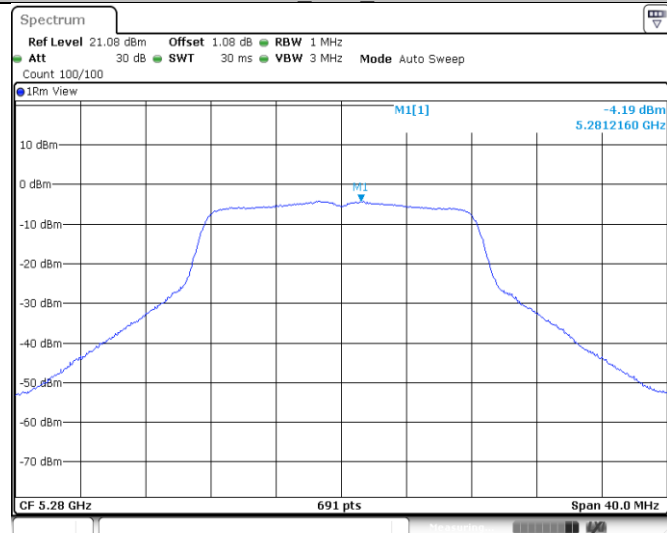
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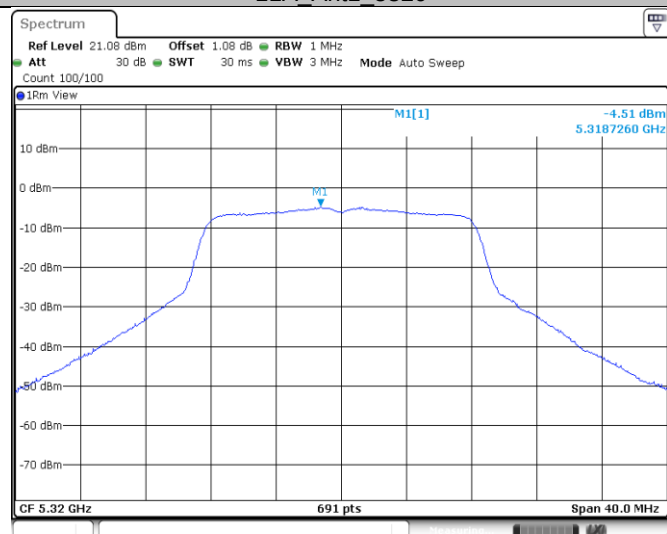
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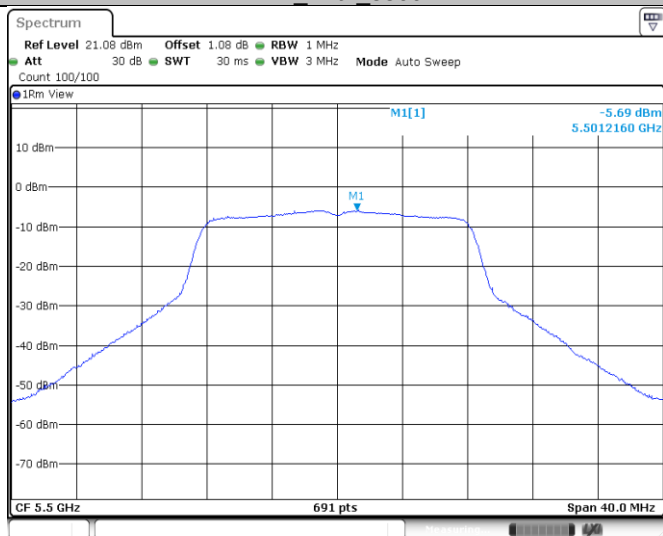
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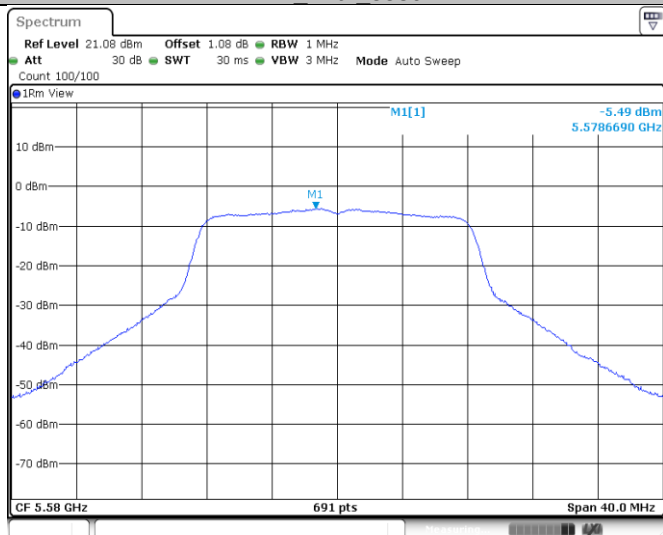
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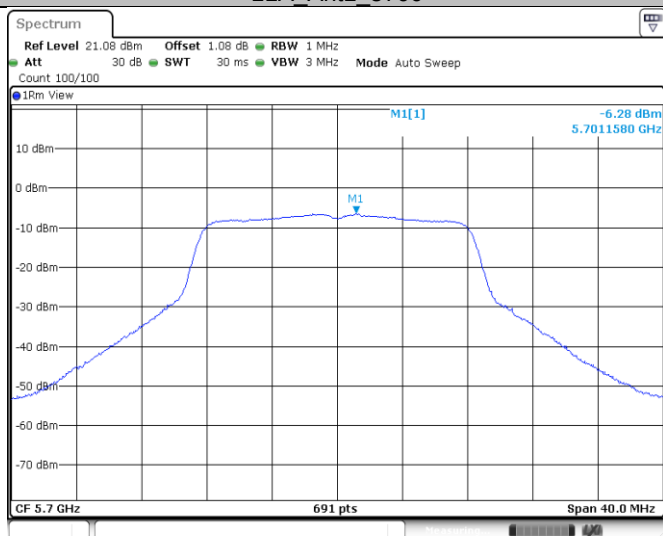
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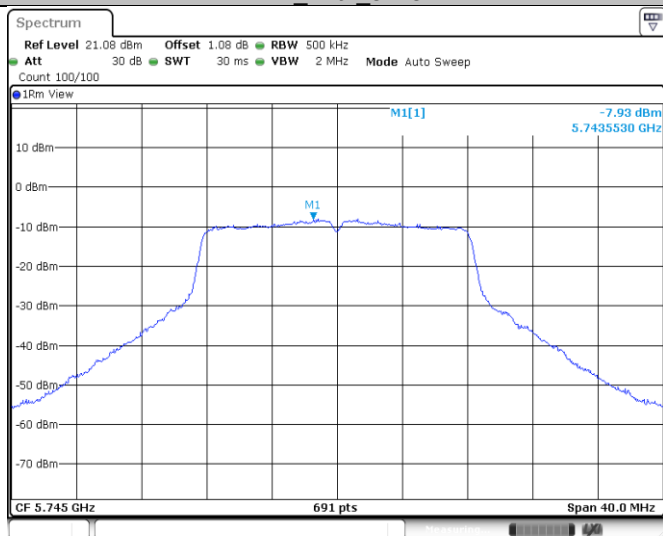
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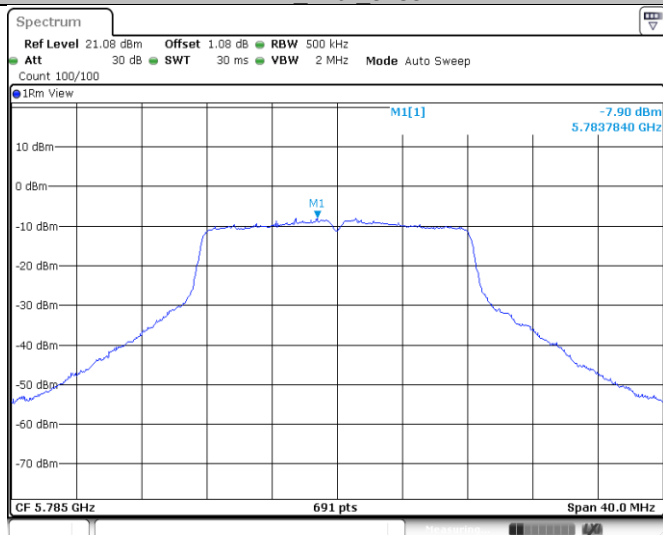
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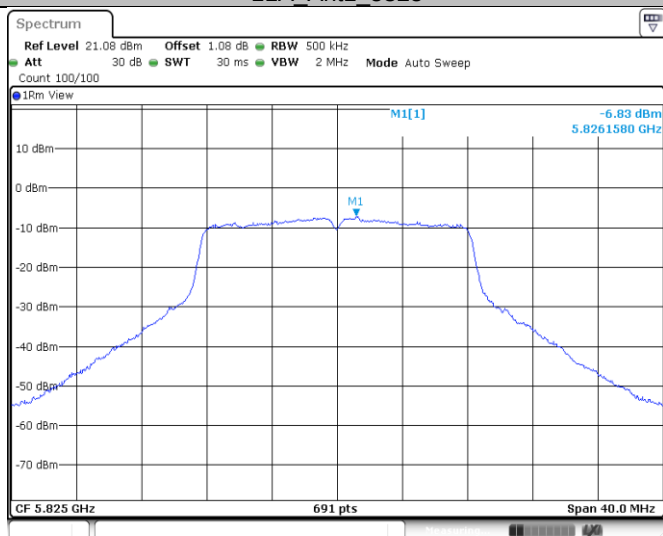
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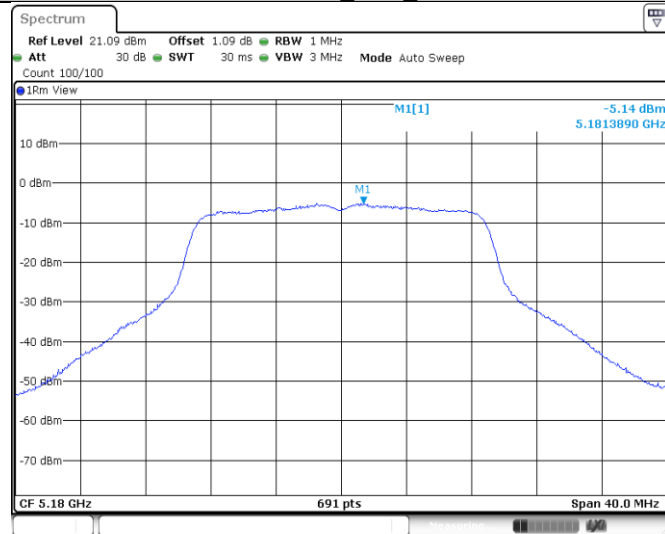
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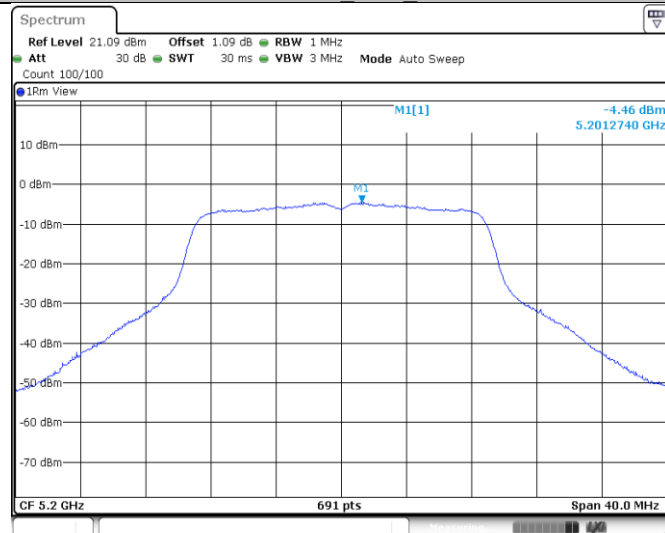
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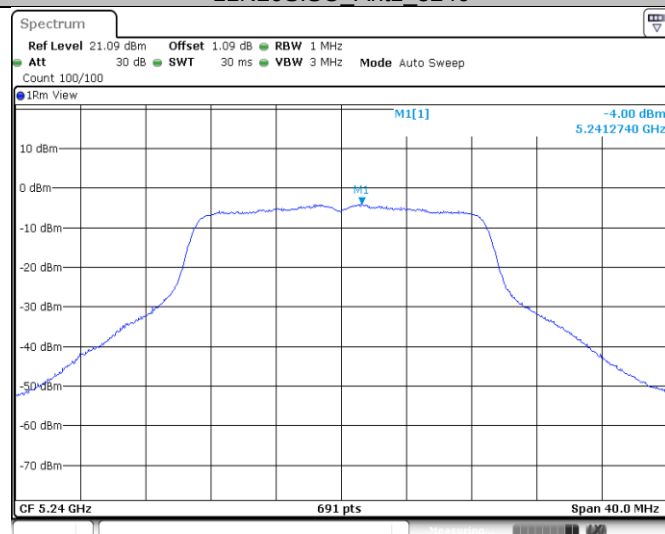
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11N20SISO_Ant1_5200



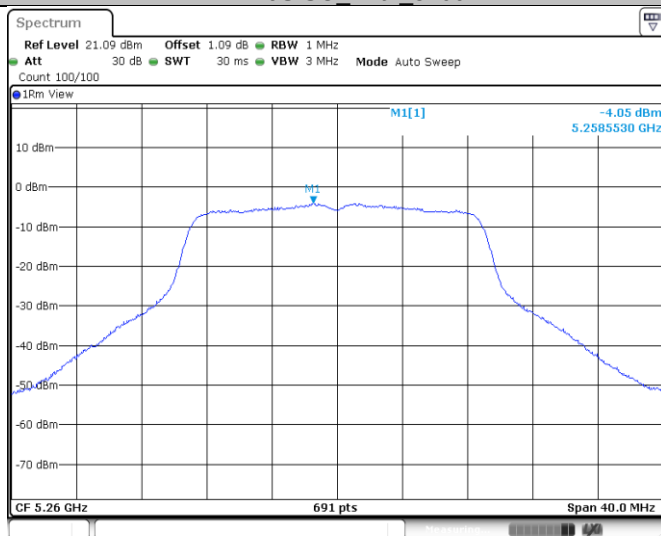
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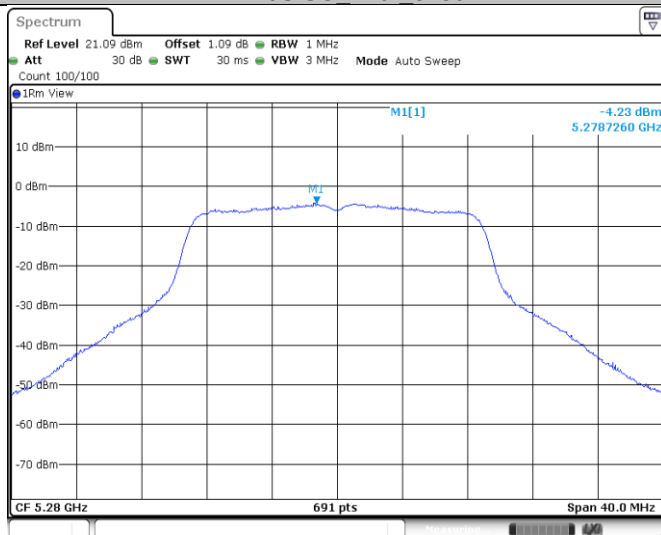
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11N20SISO Ant1 5260



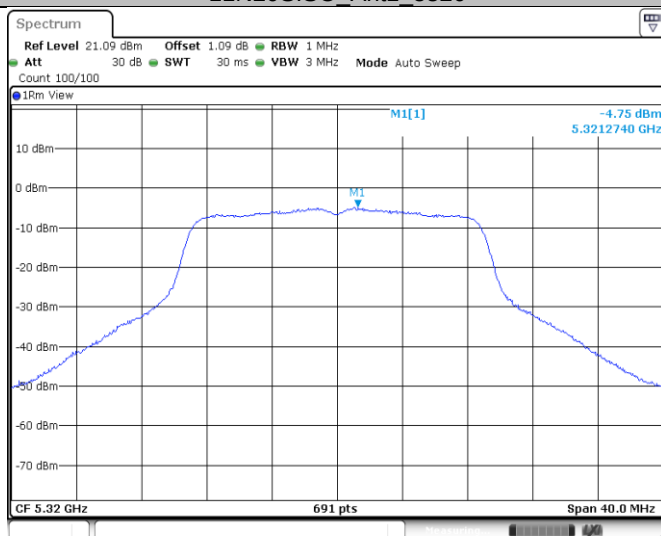
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11N20SISO Ant1 5280



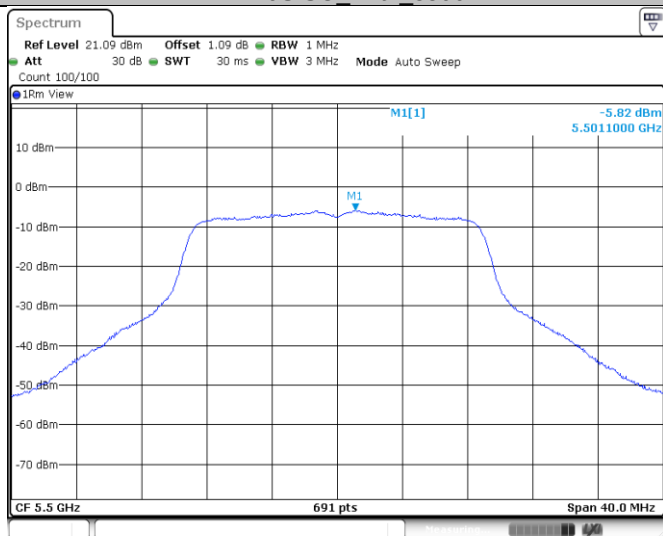
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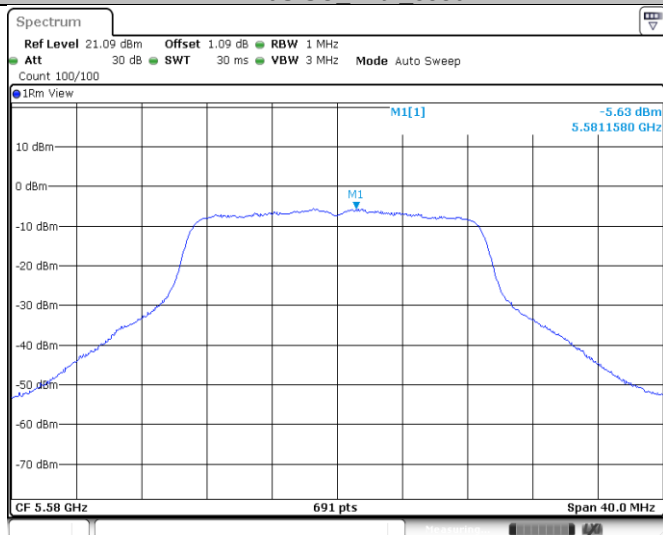
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11N20SISO_Ant1_5500



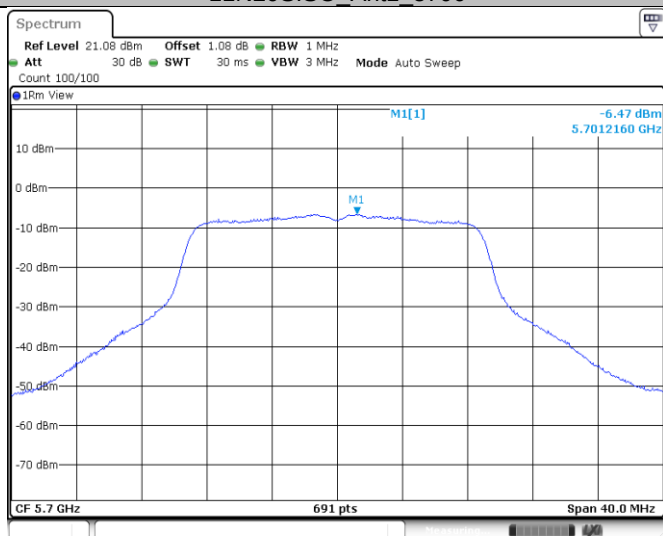
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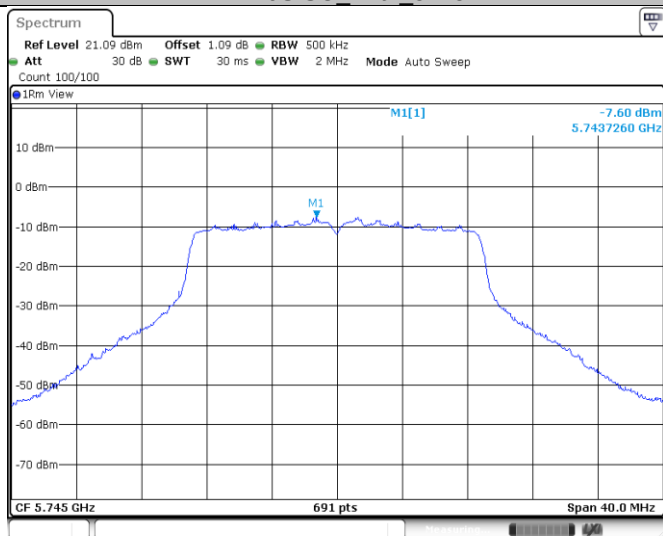
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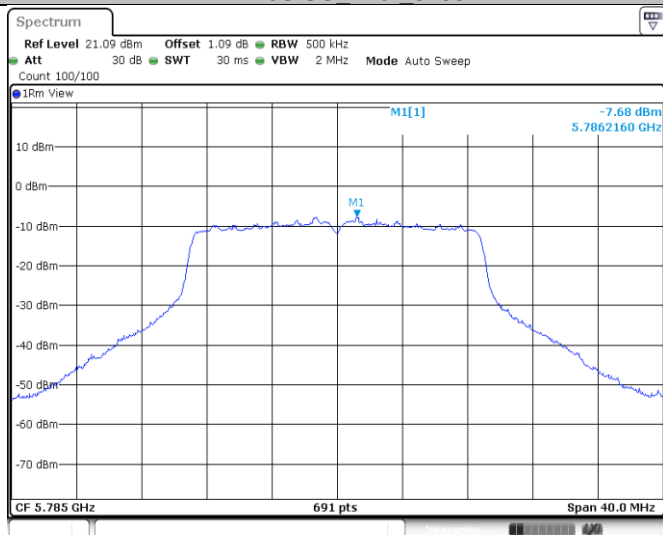
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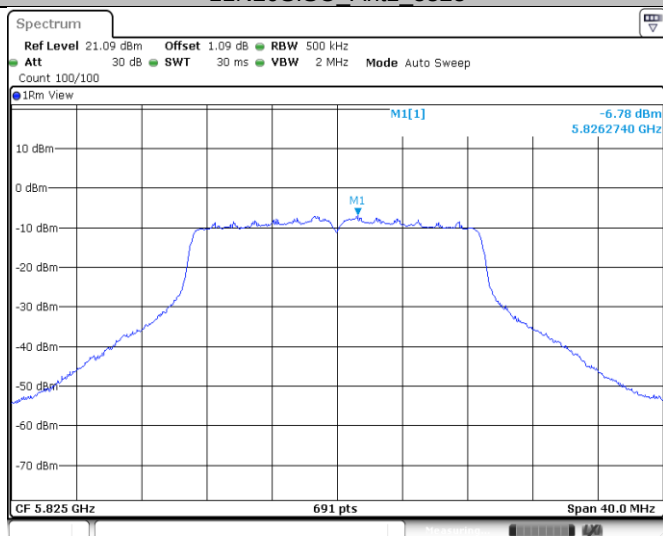
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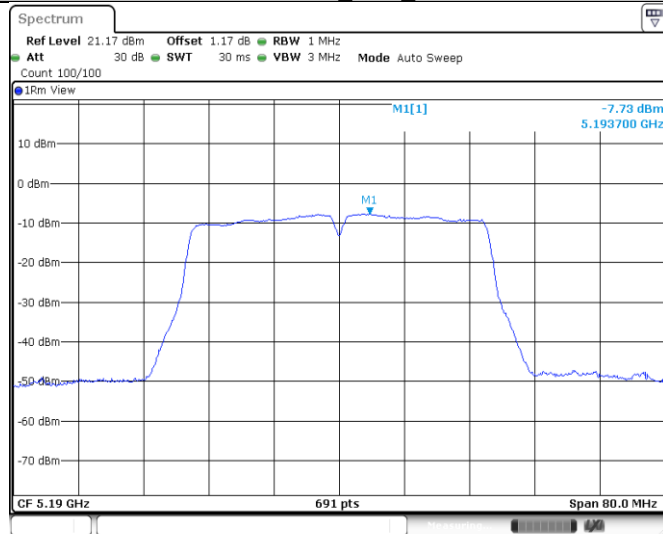
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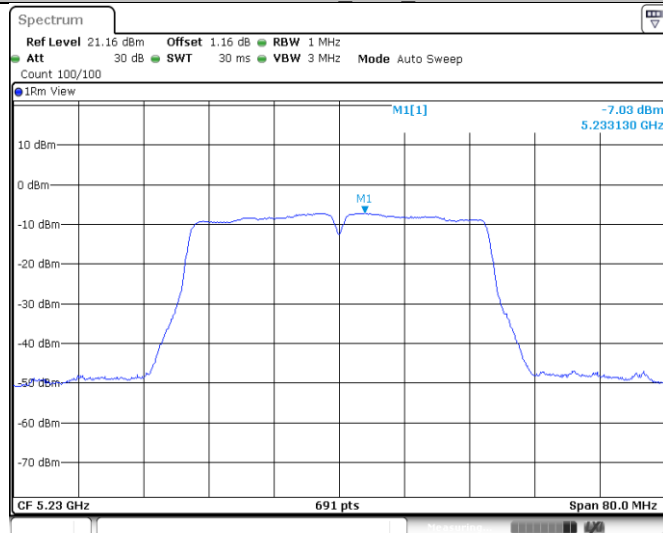
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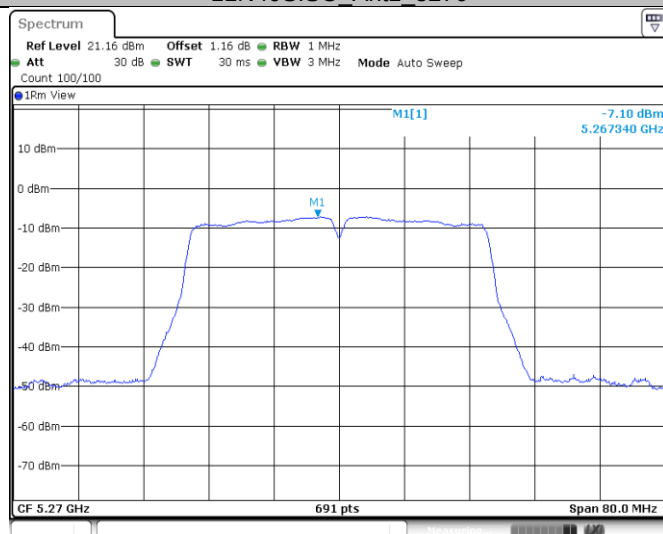
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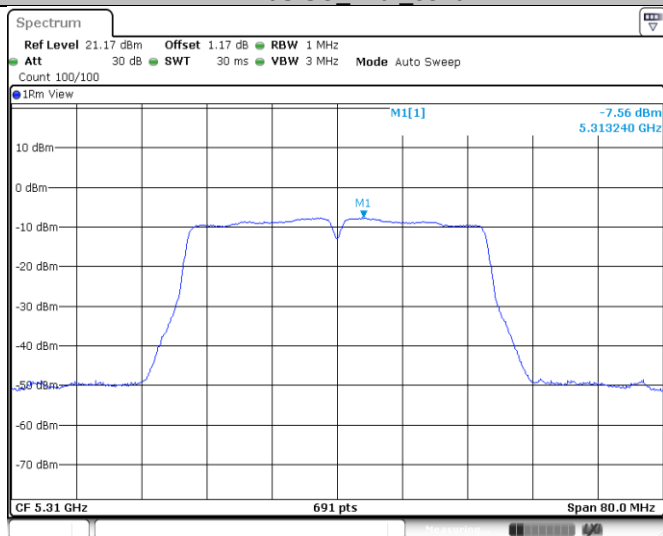
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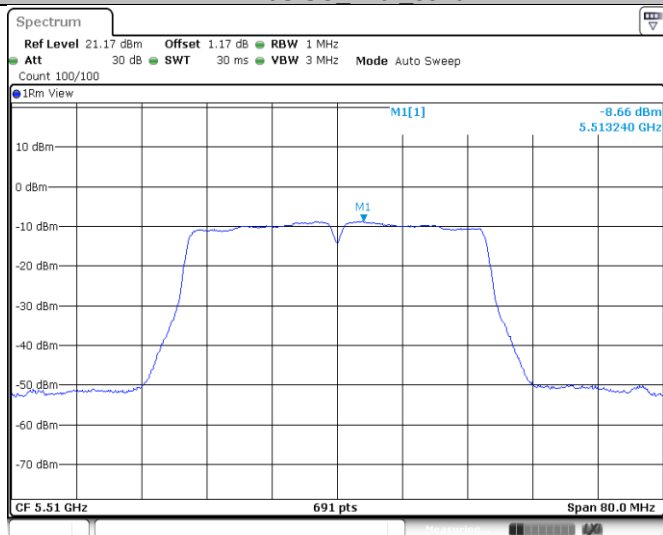
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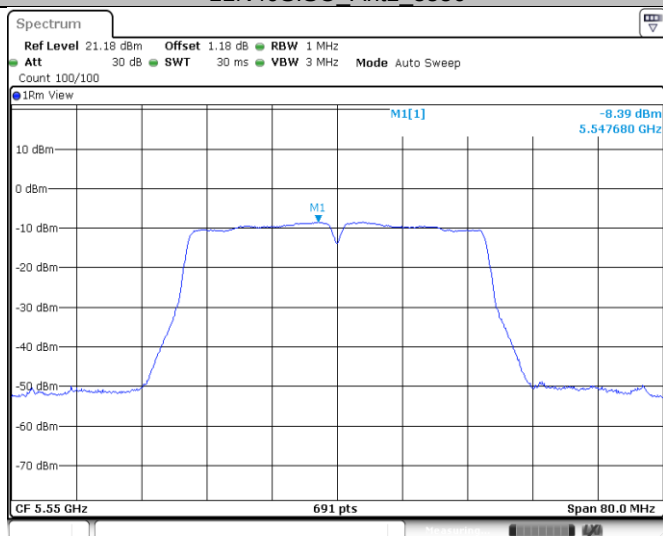
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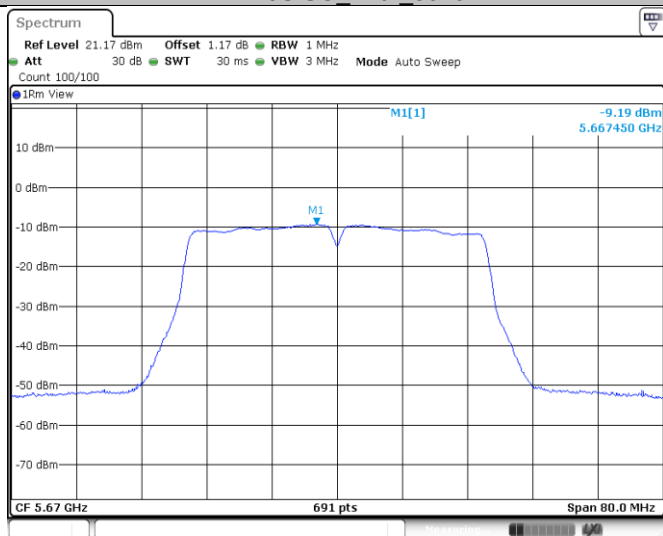
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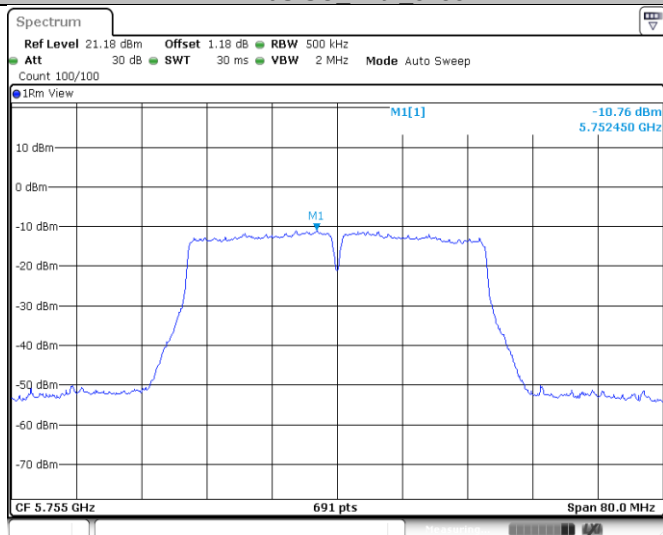
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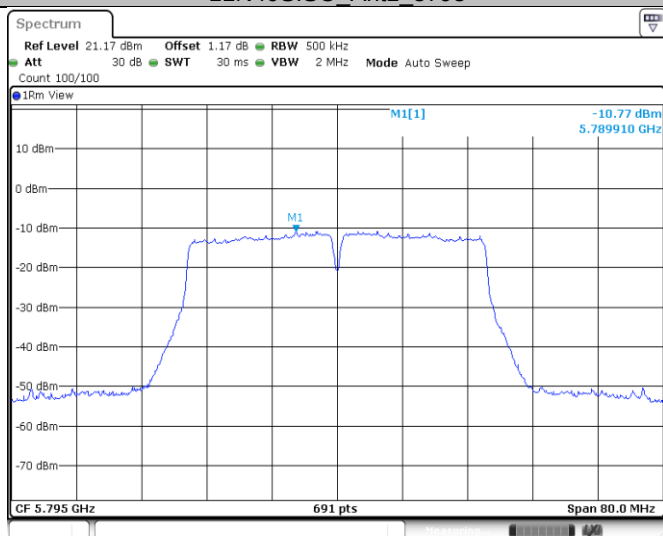
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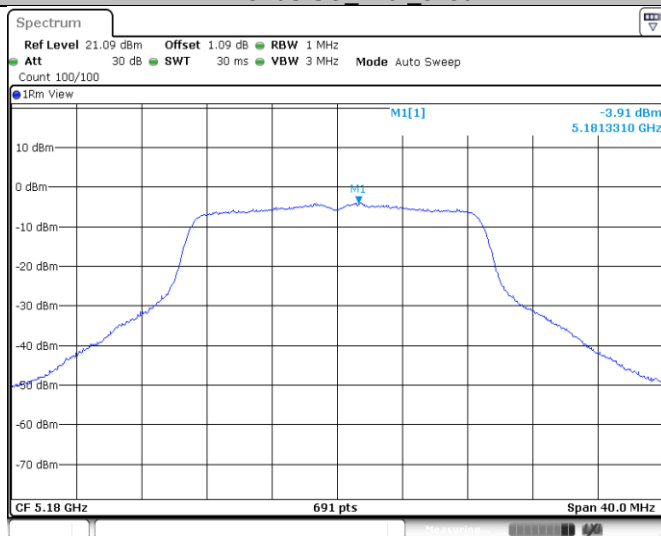
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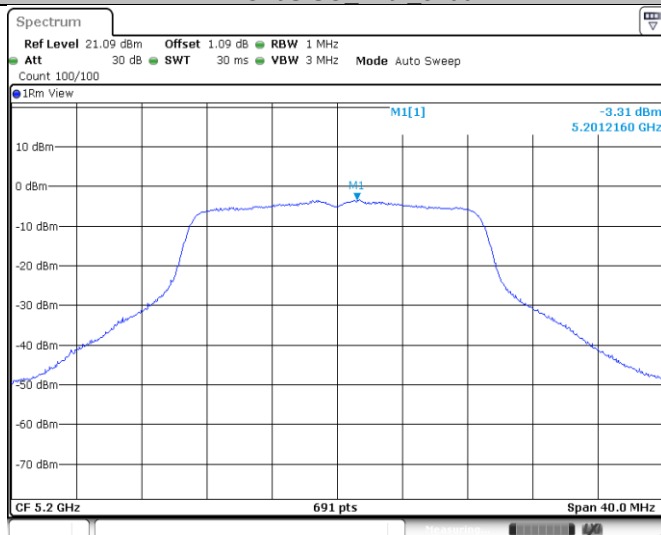
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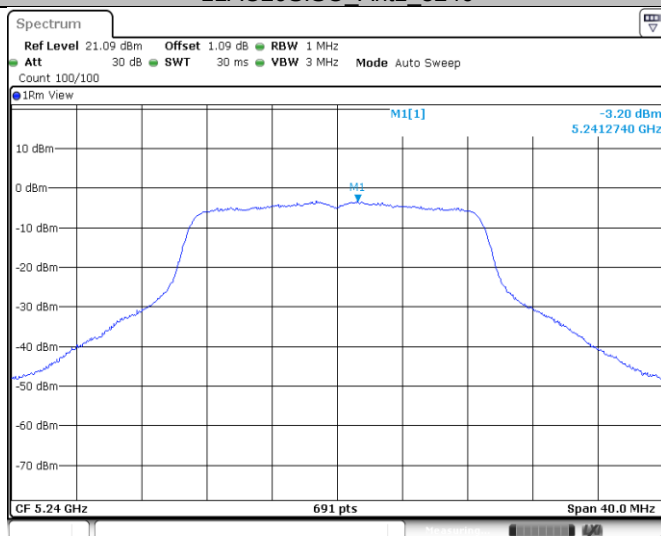
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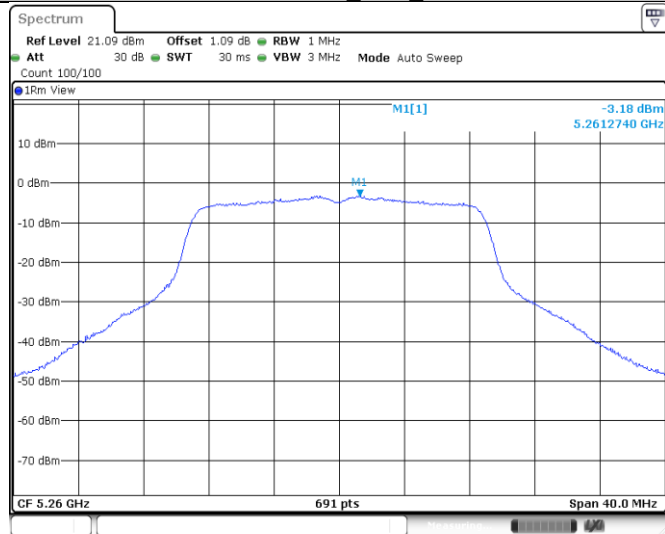
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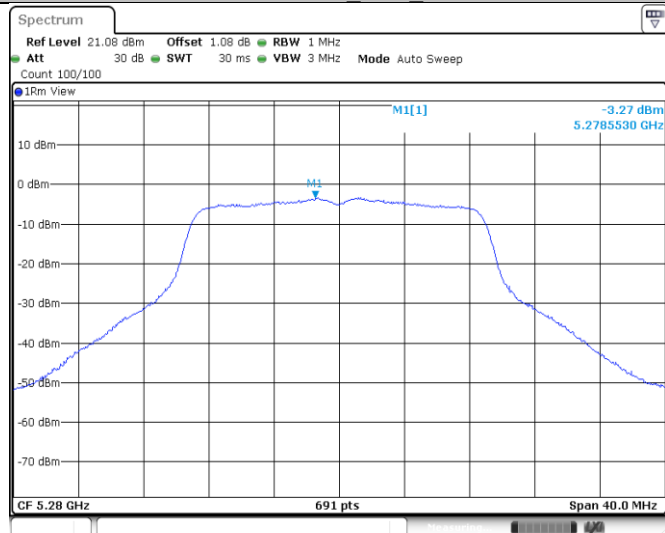
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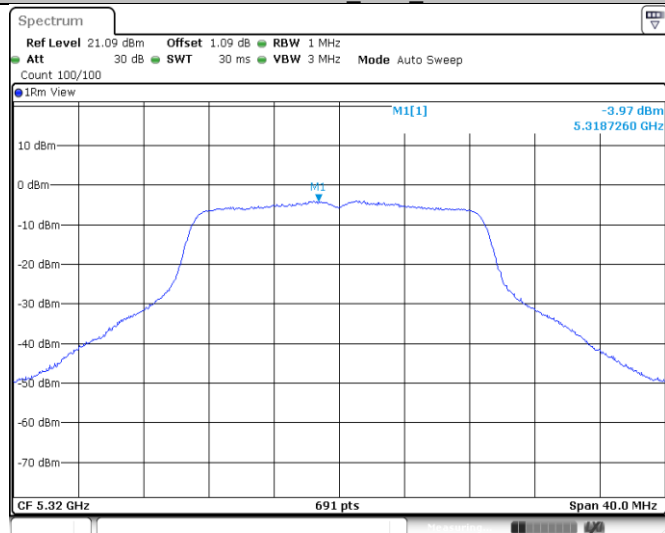
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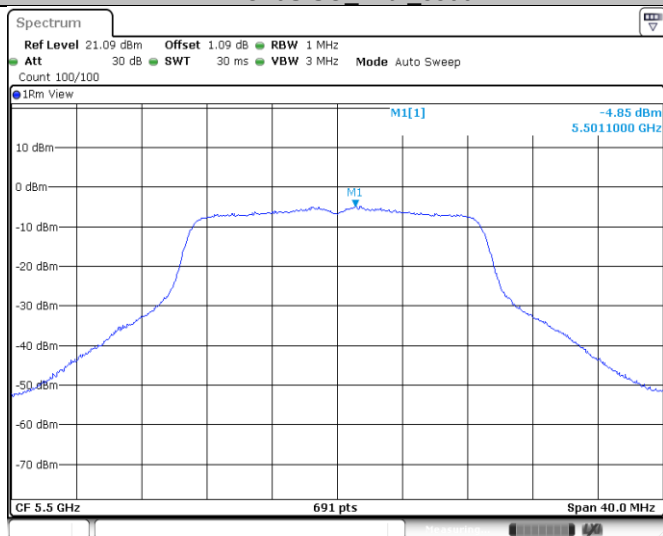
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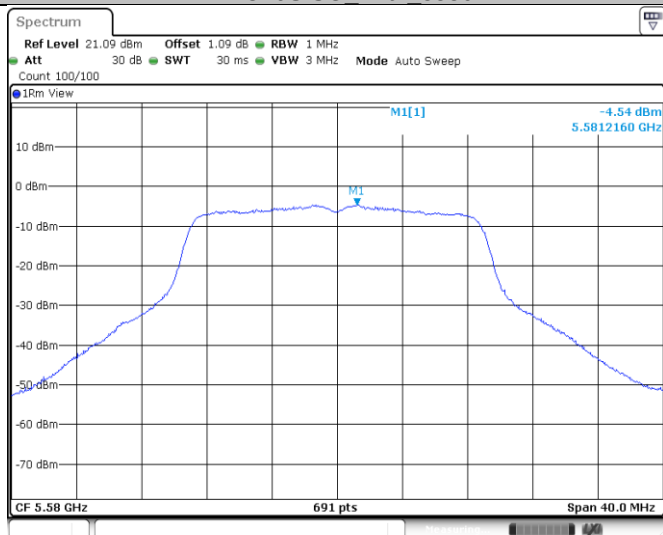
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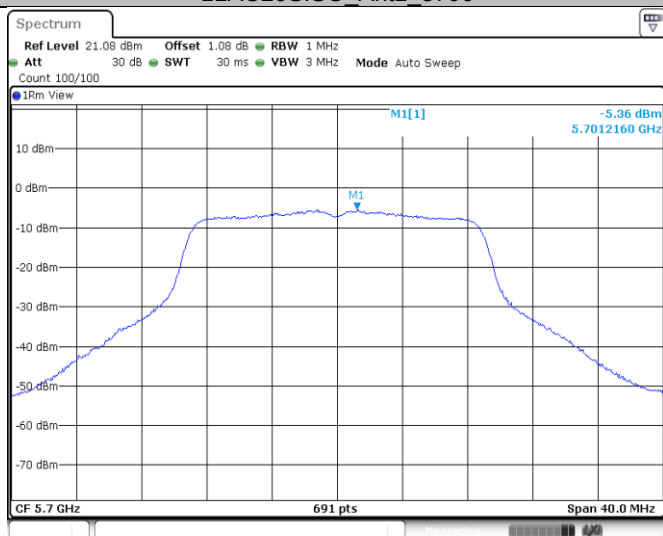
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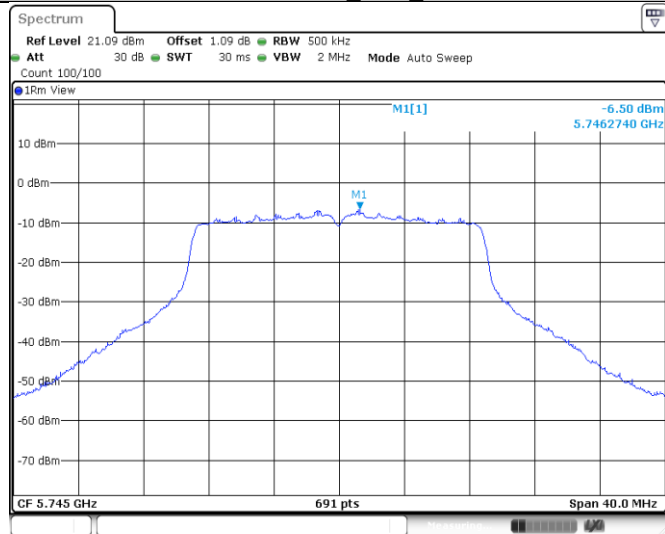
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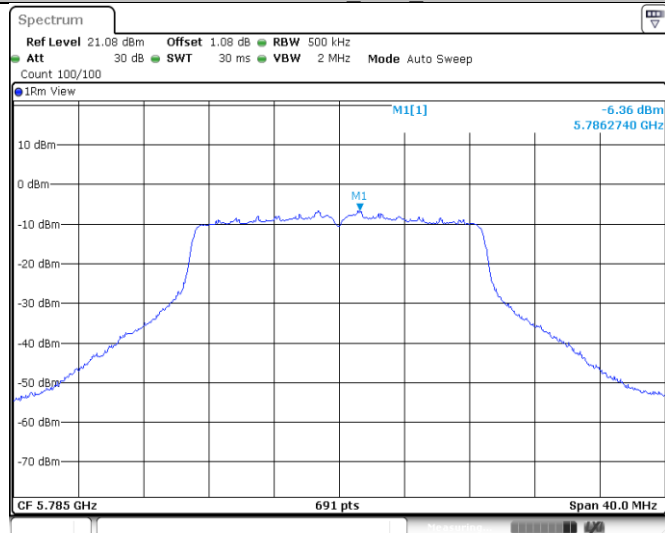
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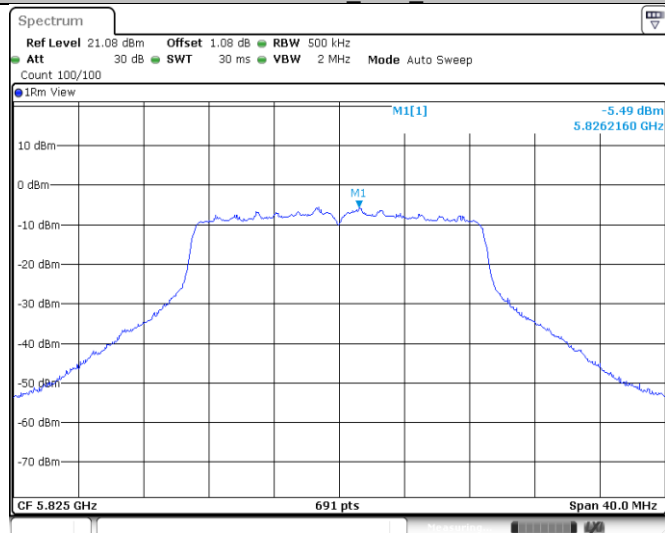
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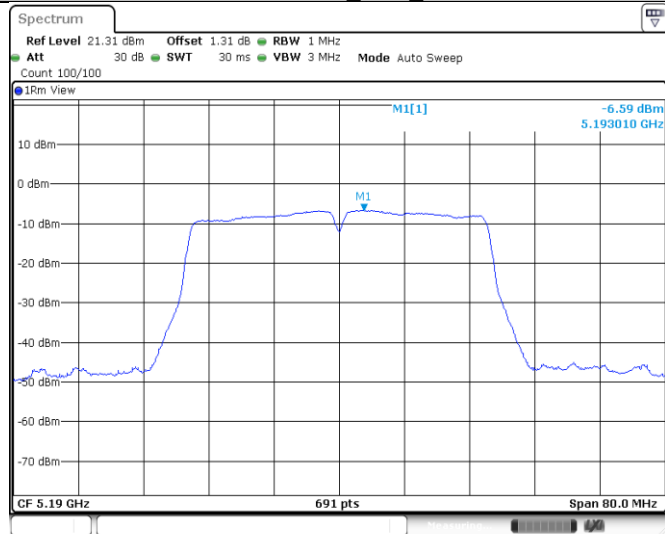
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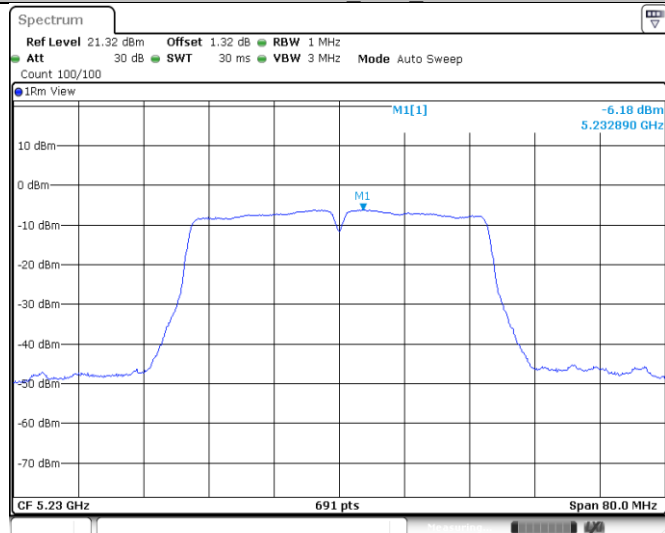
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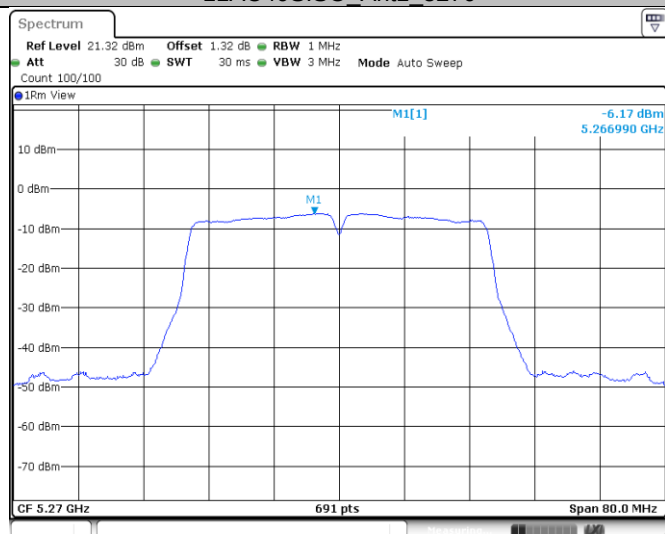
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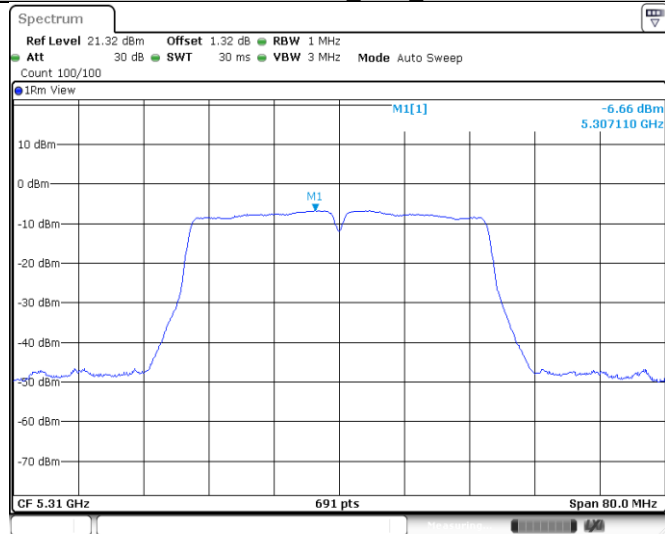
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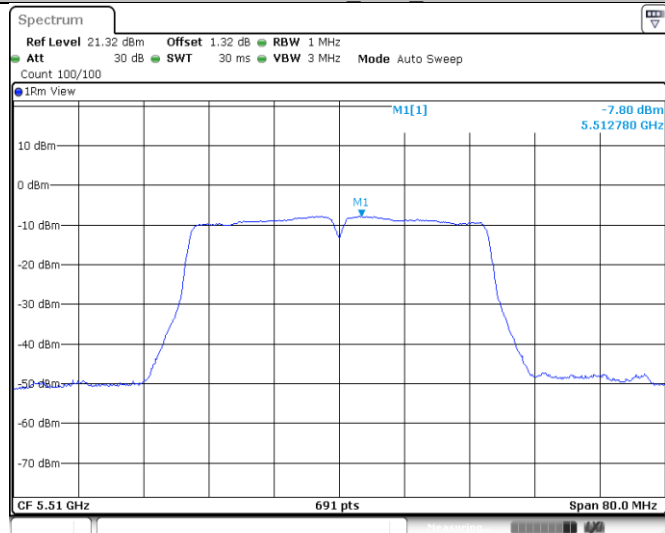
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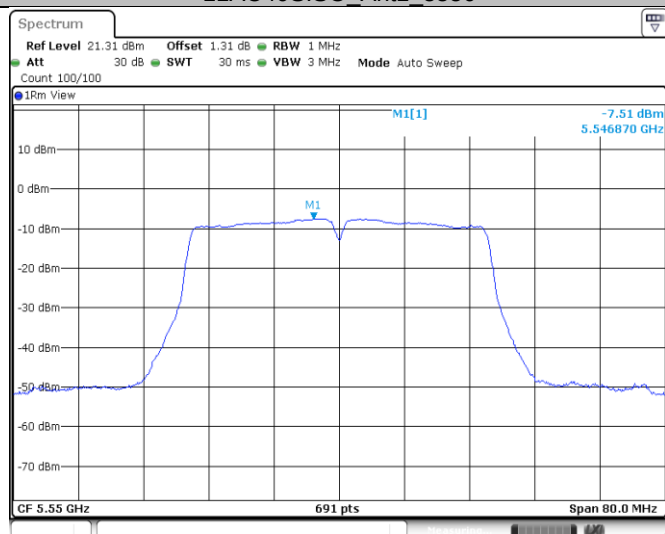
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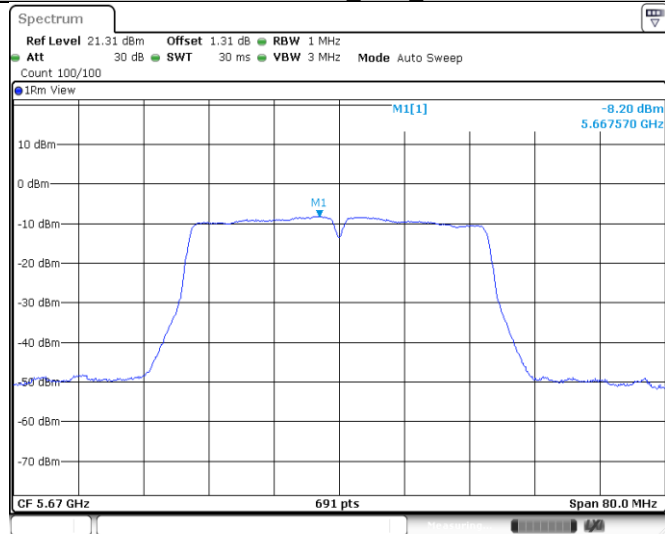
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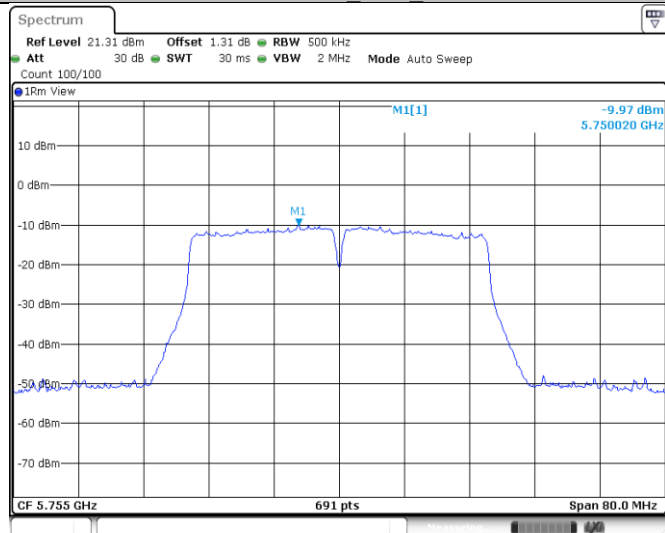
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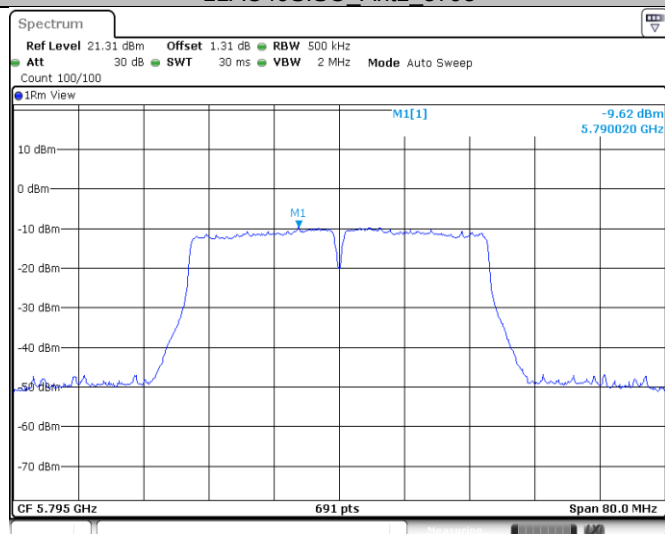
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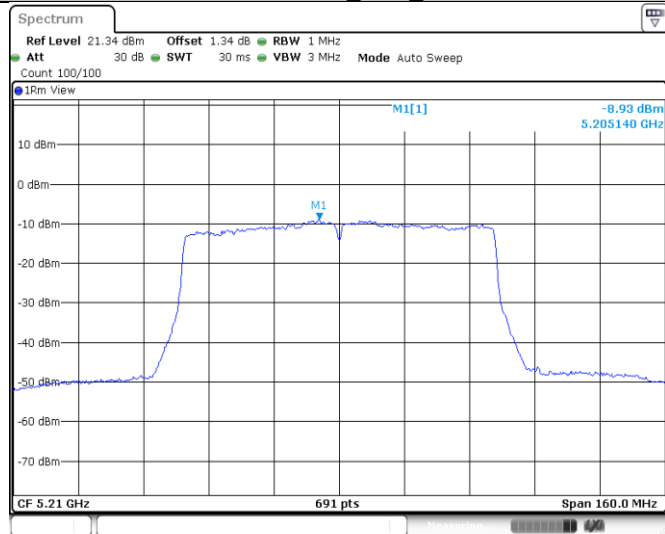
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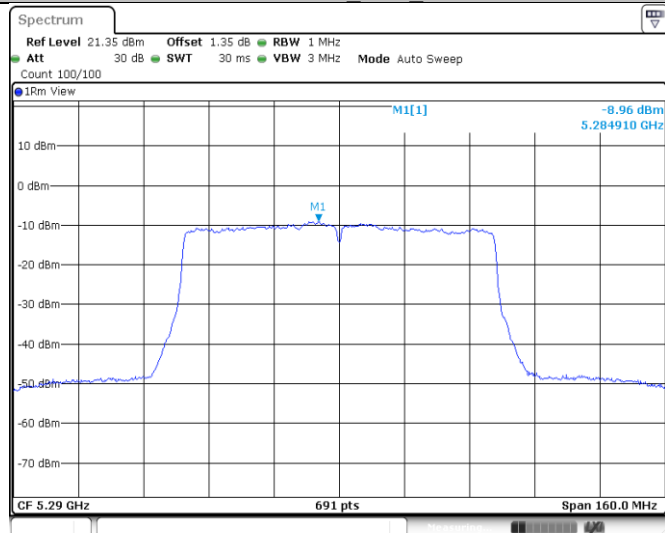
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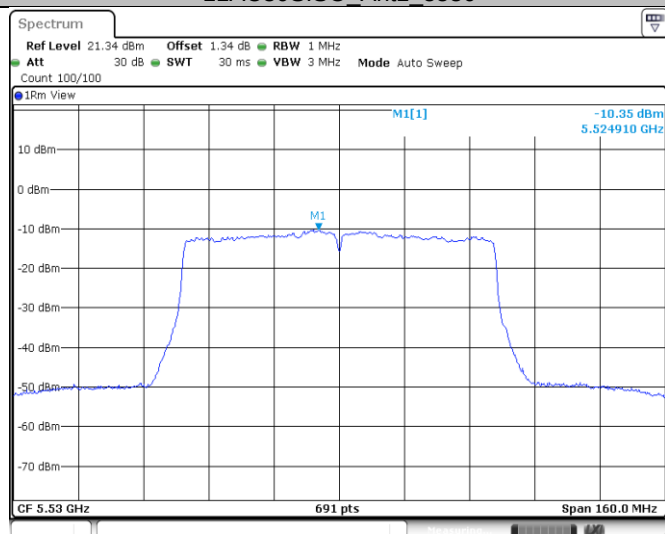
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11AC80SISO_Ant1_5290



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11AC80SISO_Ant1_5530



Date: 5 AUG 2023 19:09:09