

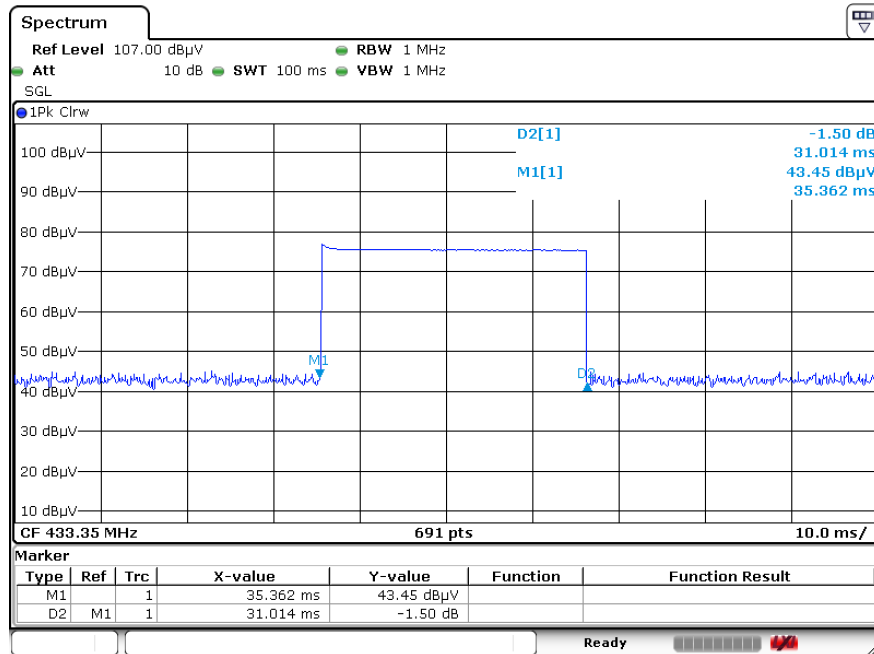
Appendix A for SHCR220300051101

1 Spurious Emissions

1.1 Field Strength of the Fundamental Signal

Test channel	Freq. (MHz)	Result Level (dBμV/m)	Limit Line (dBμV/m)	Over Limit (dB)	Detector	Polarization
Channel 1	433.35	83.35	100.83	-17.48	Peak	Vertical
		86.80	100.83	-14.03	Peak	Horizontal
		73.18	80.83	-7.65	AVG	Vertical
		76.63	80.83	-4.20	AVG	Horizontal
Channel 6	434.6	81.60	100.83	-19.23	Peak	Vertical
		85.05	100.83	-15.78	Peak	Horizontal
		71.47	80.83	-9.36	AVG	Vertical
		74.92	80.83	-5.91	AVG	Horizontal

433.35MHz:



Remark:

1. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
2. Average level = Peak level - Duty Cycle Factor
3. Duty Cycle Factor = $20 \cdot \log(\text{Duty Cycle}) = -10.17\text{dB}$

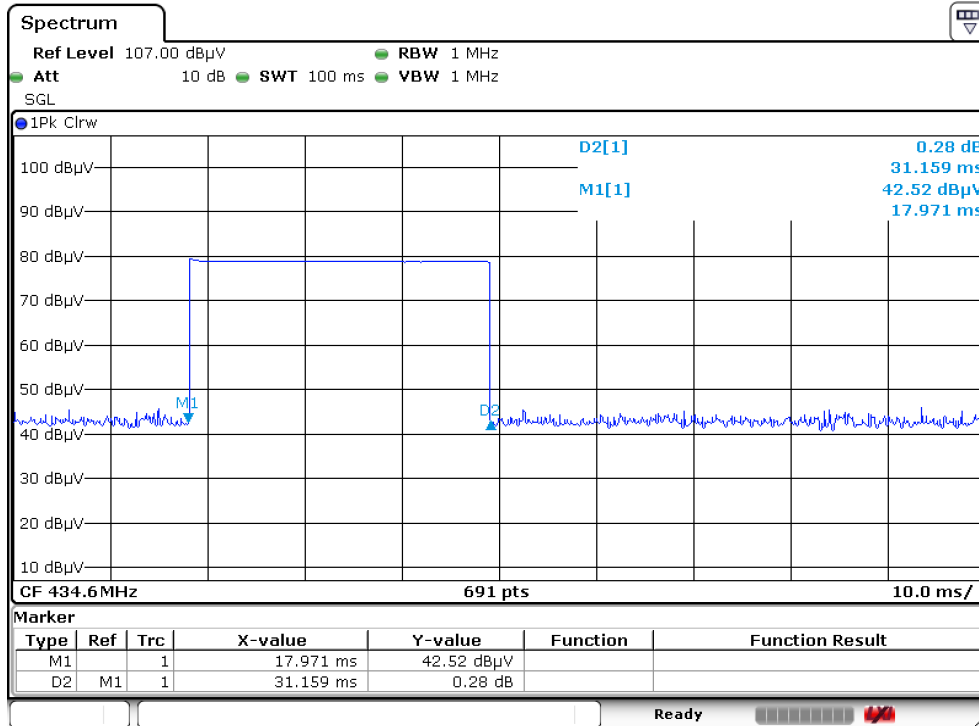


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434.6MHz:



Remark:

1. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
2. Average level = Peak level - Duty Cycle Factor
3. Duty Cycle Factor = $20 \cdot \log(\text{Duty Cycle}) = -10.13\text{dB}$



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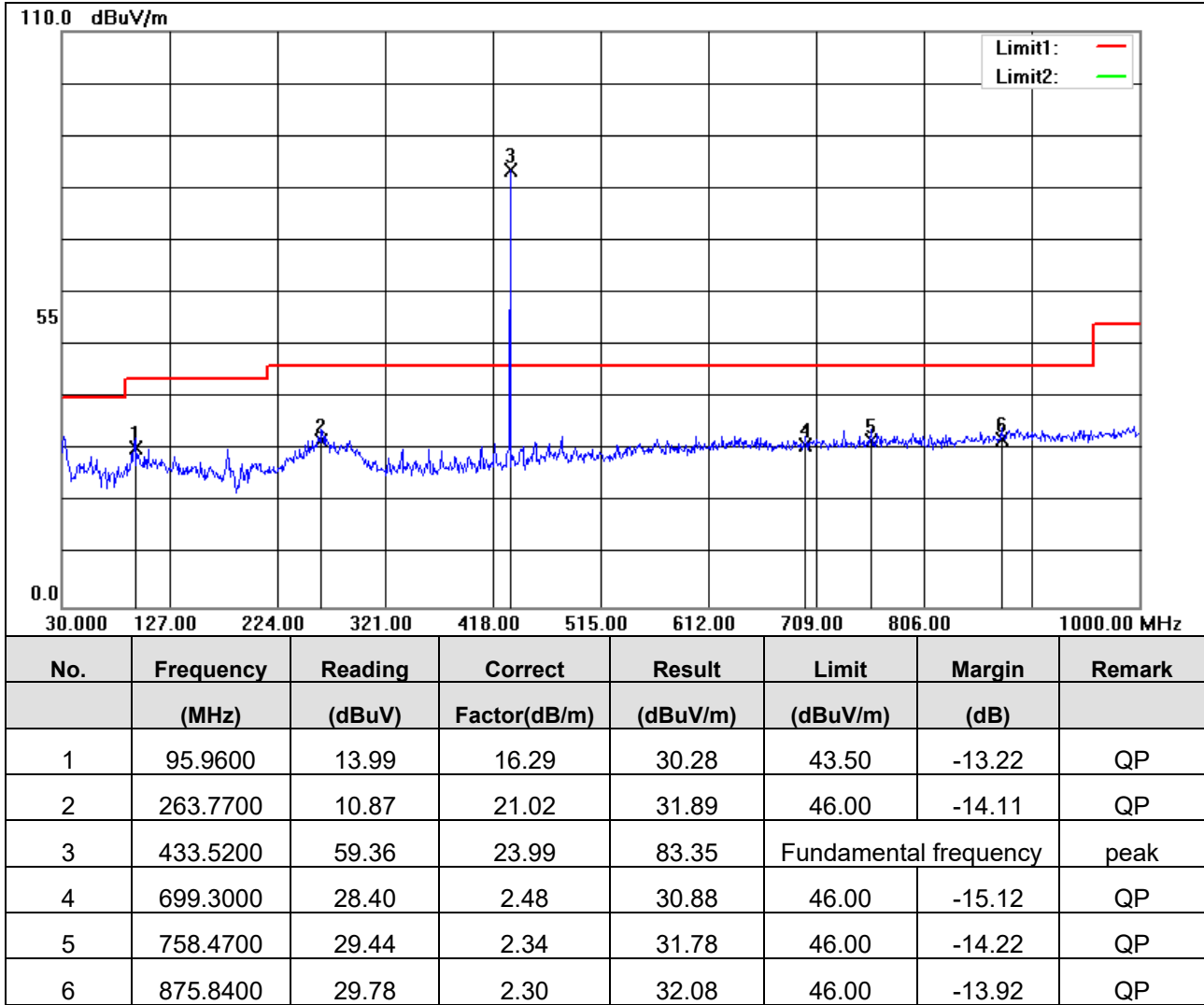
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1.2 Spurious Emissions

Below 1GHz:

433.35MHz:

Vertical:



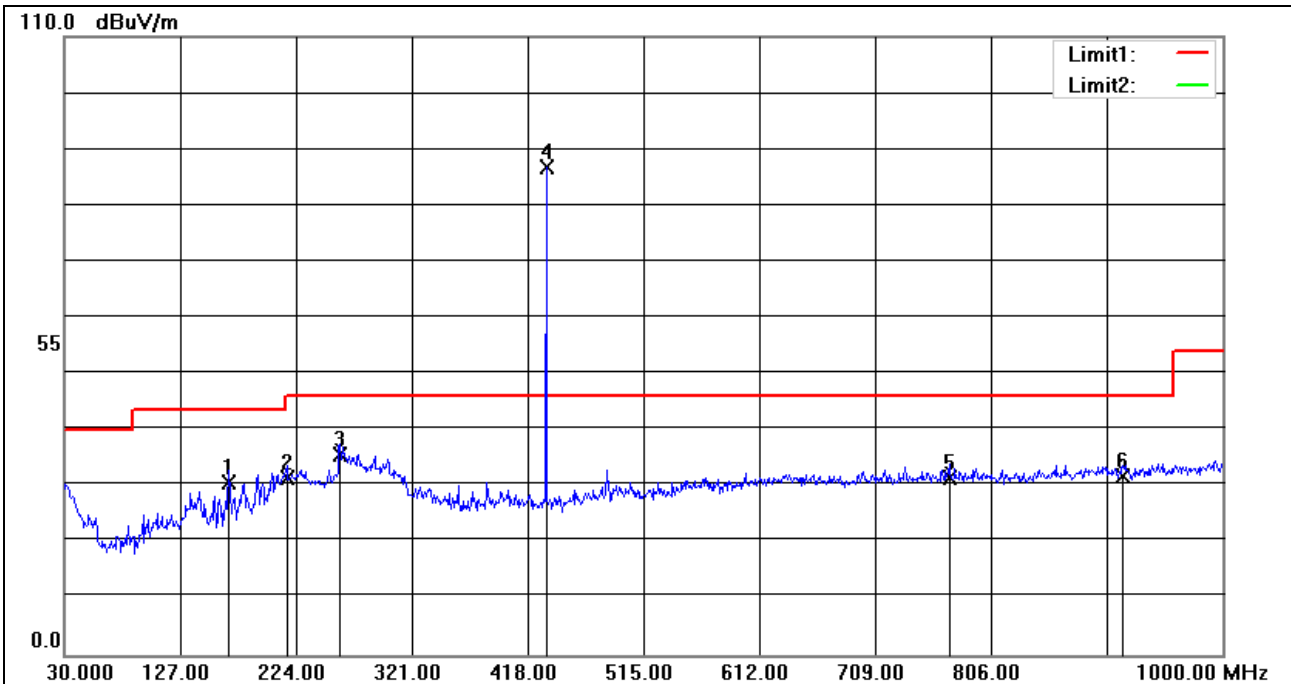
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Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	167.7400	13.69	17.10	30.79	43.50	-12.71	QP
2	216.2400	14.90	16.59	31.49	46.00	-14.51	QP
3	260.8600	14.64	20.97	35.61	46.00	-10.39	QP
4	433.5200	62.81	23.99	86.80	Fundamental frequency		peak
5	771.0800	29.13	2.31	31.44	46.00	-14.56	QP
6	916.5800	29.17	2.51	31.68	46.00	-14.32	QP



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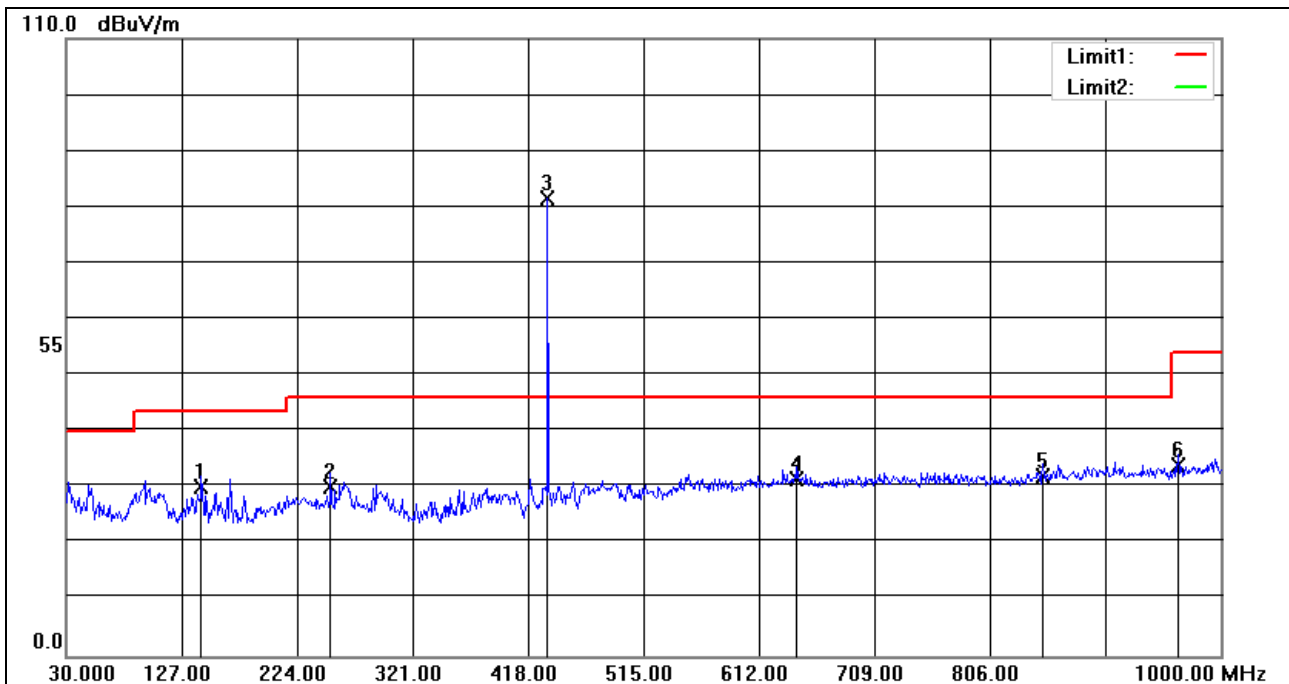
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434.6MHz:

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	143.4900	11.88	18.19	30.07	43.50	-13.43	QP
2	252.1300	10.26	19.92	30.18	46.00	-15.82	QP
3	434.4900	57.61	23.99	81.60	Fundamental frequency		peak
4	644.0100	3.66	27.82	31.48	46.00	-14.52	QP
5	850.6200	29.86	2.13	31.99	46.00	-14.01	QP
6	964.1100	31.39	2.55	33.94	54.00	-20.06	QP



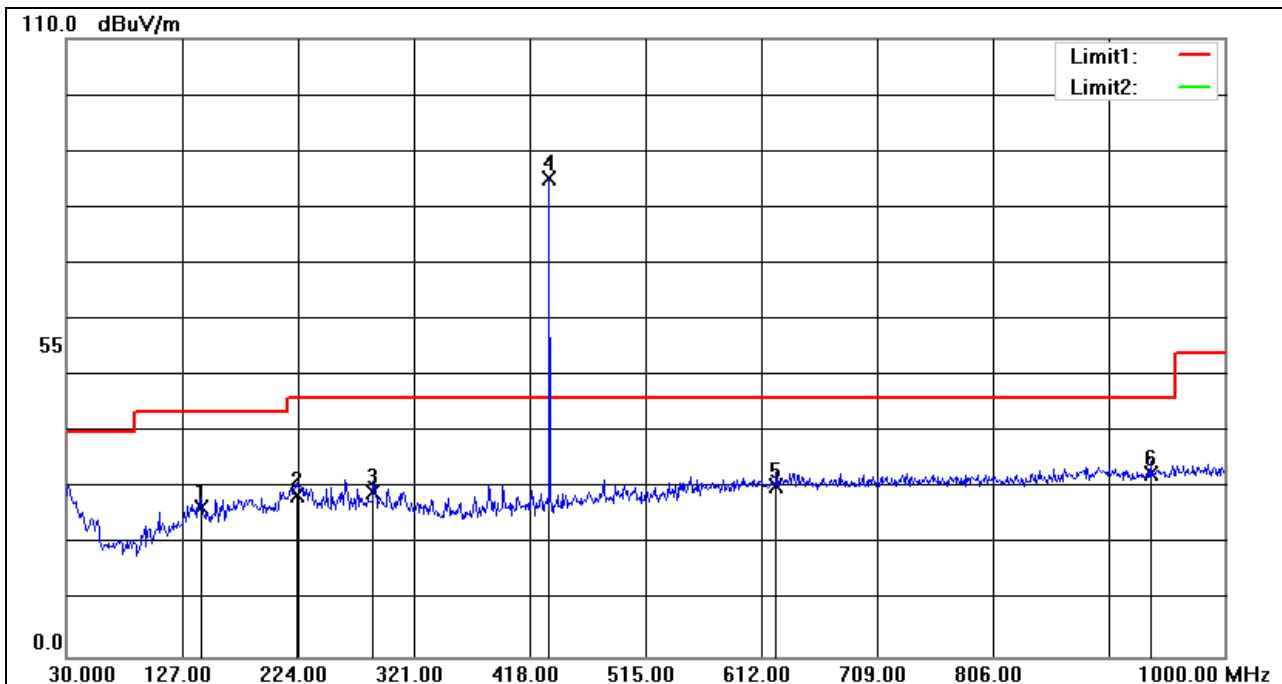
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Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	142.5200	8.25	18.29	26.54	43.50	-16.96	QP
2	223.0300	11.93	16.86	28.79	46.00	-17.21	QP
3	287.0500	8.89	20.45	29.34	46.00	-16.66	QP
4	434.4900	61.06	23.99	85.05	100.83	-15.78	peak
5	624.6100	3.17	27.31	30.48	46.00	-15.52	QP
6	937.9200	29.88	2.59	32.47	46.00	-13.53	QP



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Above 1GHz

433.35MHz:

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1550.000	58.35	-17.47	40.88	54.00	-13.12	peak	Vertical
2	2110.000	57.36	-16.25	41.11	54.00	-12.89	peak	Vertical
3	2760.000	55.69	-14.03	41.66	54.00	-12.34	peak	Vertical
4	1475.000	58.36	-17.66	40.70	54.00	-13.30	peak	Horizontal
5	2045.000	57.69	-16.52	41.17	54.00	-12.83	peak	Horizontal
6	2590.000	56.06	-14.40	41.66	54.00	-12.34	peak	Horizontal

434.6MHz:

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1620.000	58.82	-17.35	41.47	54.00	-12.53	peak	Vertical
2	2150.000	57.46	-16.08	41.38	54.00	-12.62	peak	Vertical
3	2685.000	57.33	-14.20	43.13	54.00	-10.87	peak	Vertical
4	1525.000	58.83	-17.51	41.32	54.00	-12.68	peak	Horizontal
5	1910.000	59.02	-16.86	42.16	54.00	-11.84	peak	Horizontal
6	2635.000	57.19	-14.31	42.88	54.00	-11.12	peak	Horizontal



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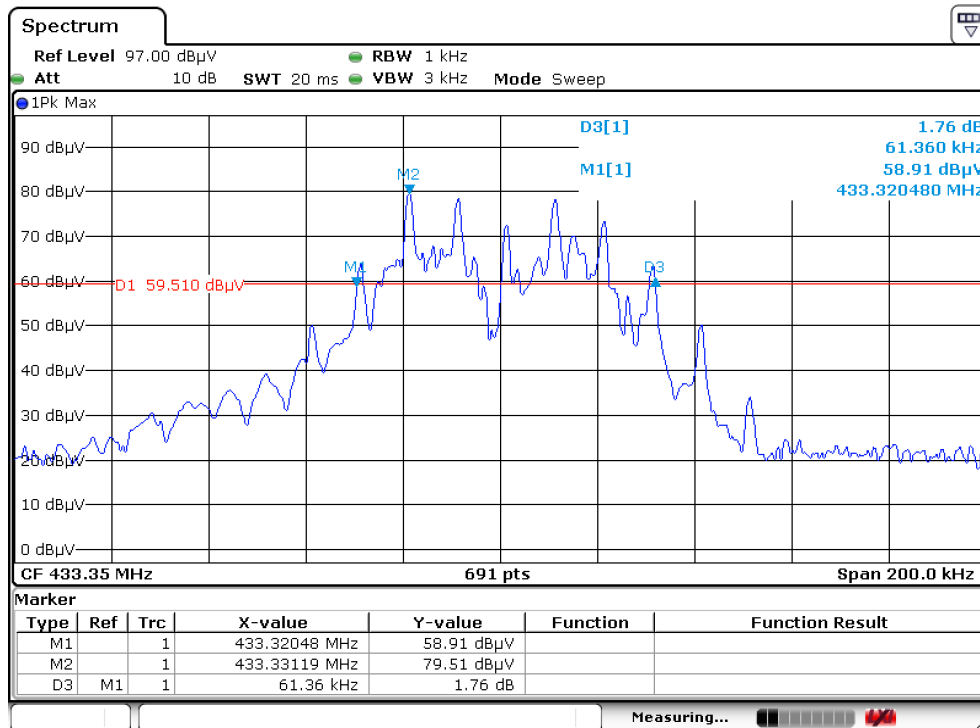
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2 20dB Bandwidth

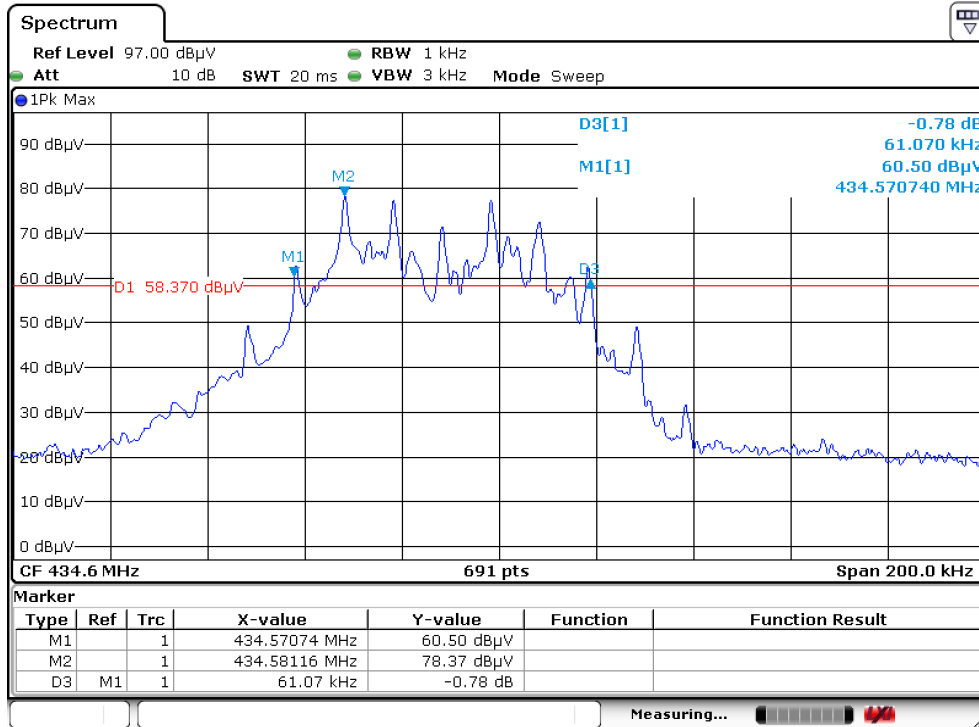
Measurement Data:

Frequency (MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.35	61.36	1083.375	Pass
434.60	61.07	1086.5	Pass

Test plot as follows:



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3 Dwell Time

Measurement Data:

Test item	Limit (s)	Results
Transmission Duration	≤5s	Pass

Test plot as follows:

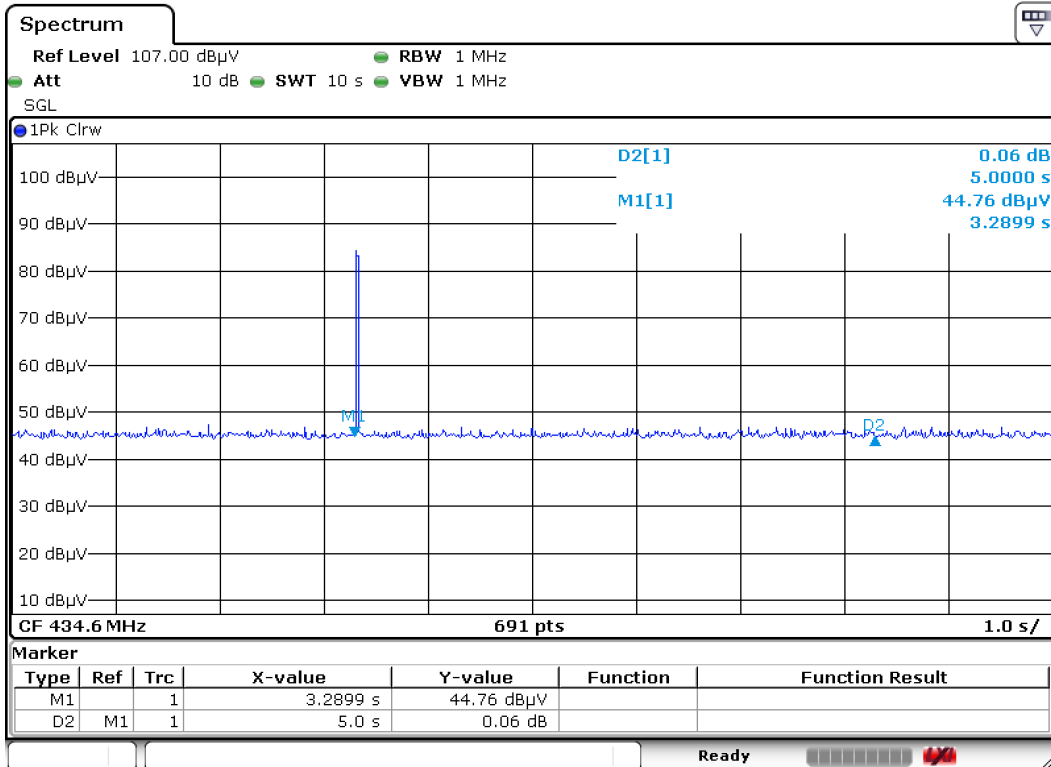
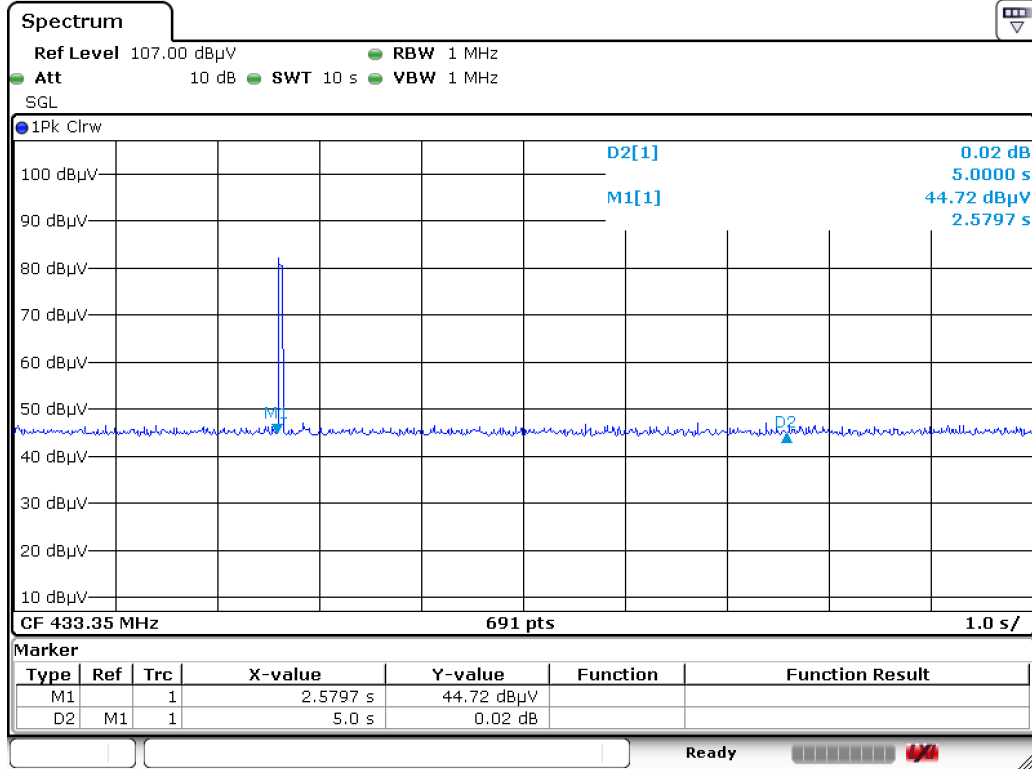


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