

Appendix B for KSCR220300037802-R3 module Antenna 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	433.10	71.03	100.83	-29.80	Peak	Vertical
		71.51	100.83	-29.32	Peak	Horizontal
Channel 6	433.70	70.58	100.83	-30.25	Peak	Vertical
		72.20	100.83	-28.63	Peak	Horizontal

Remark:

- If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



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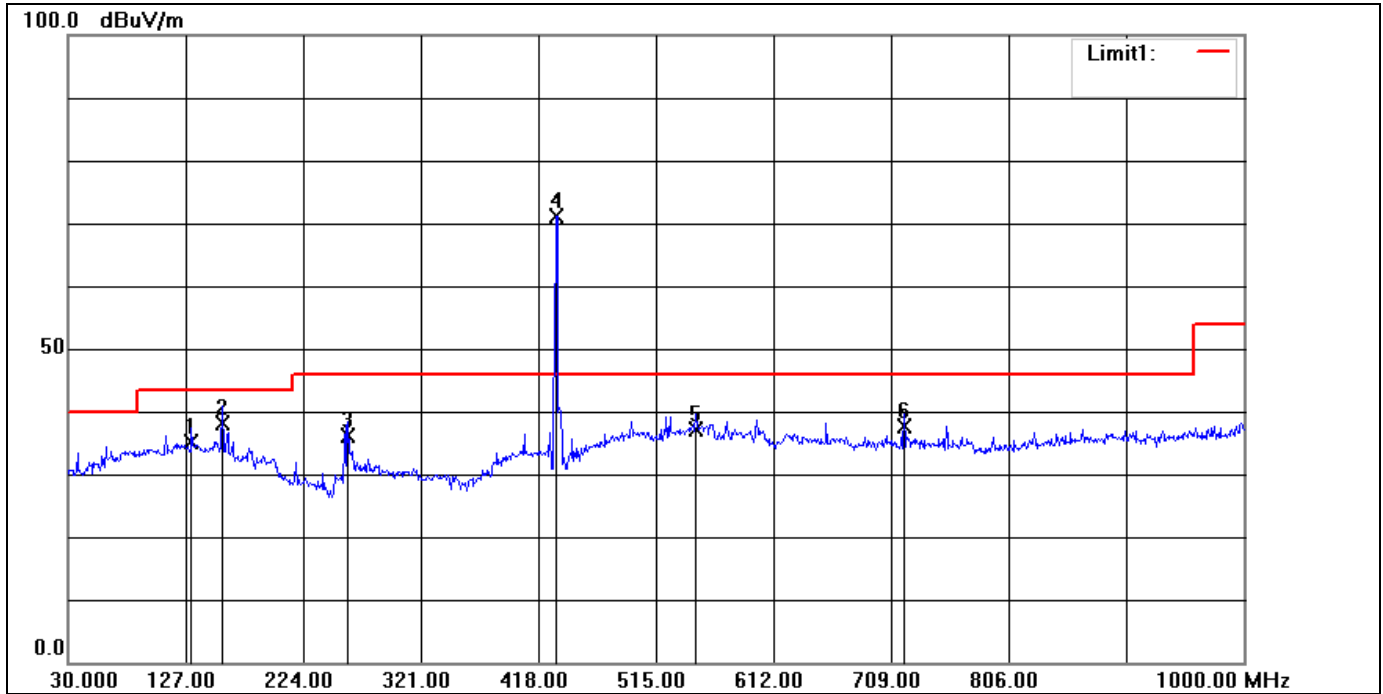
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2. Spurious Emissions(30M-1GHz)

433.10MHz

Vertical:



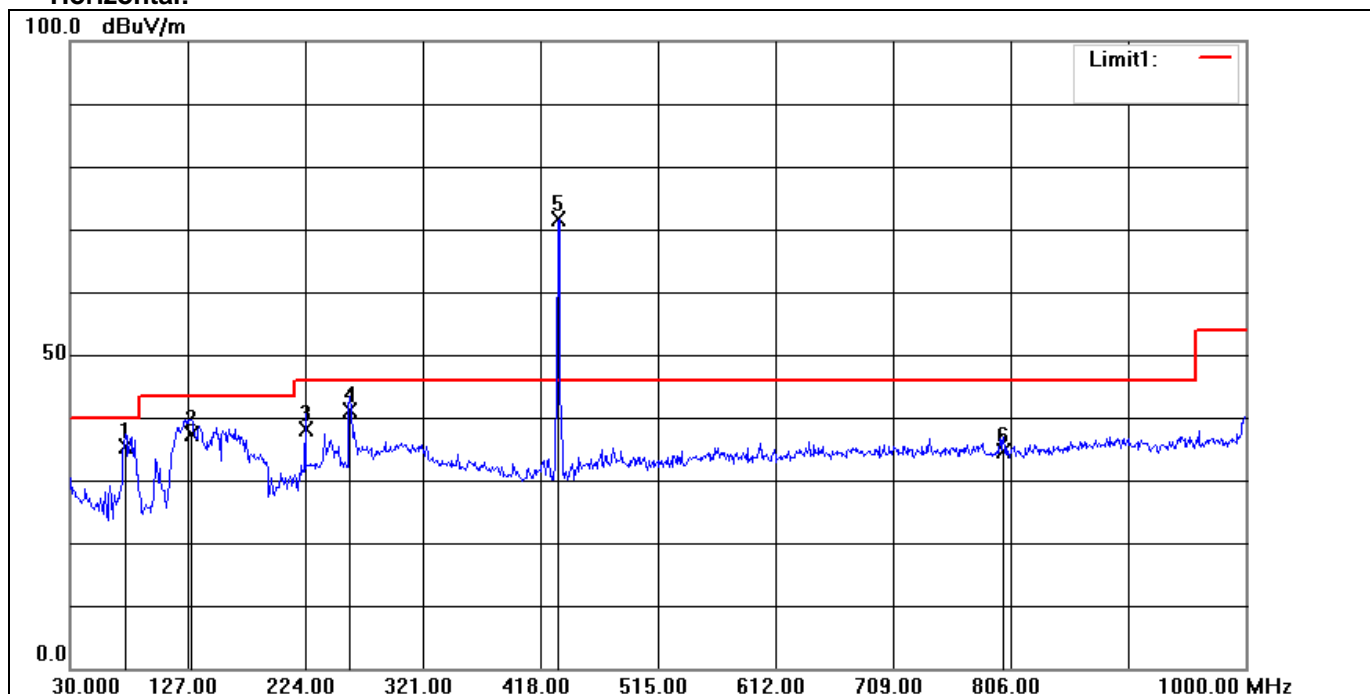
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	131.8500	15.92	19.30	35.22	43.50	-8.28	QP
2	157.0700	20.59	17.57	38.16	43.50	-5.34	QP
3	260.8600	15.27	20.97	36.24	46.00	-9.76	QP
4	433.1000	47.04	23.99	71.03	100.83	-29.80	peak
5	547.9800	9.88	27.20	37.08	46.00	-8.92	QP
6	719.6700	35.20	2.43	37.63	46.00	-8.37	QP



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Horizontal:



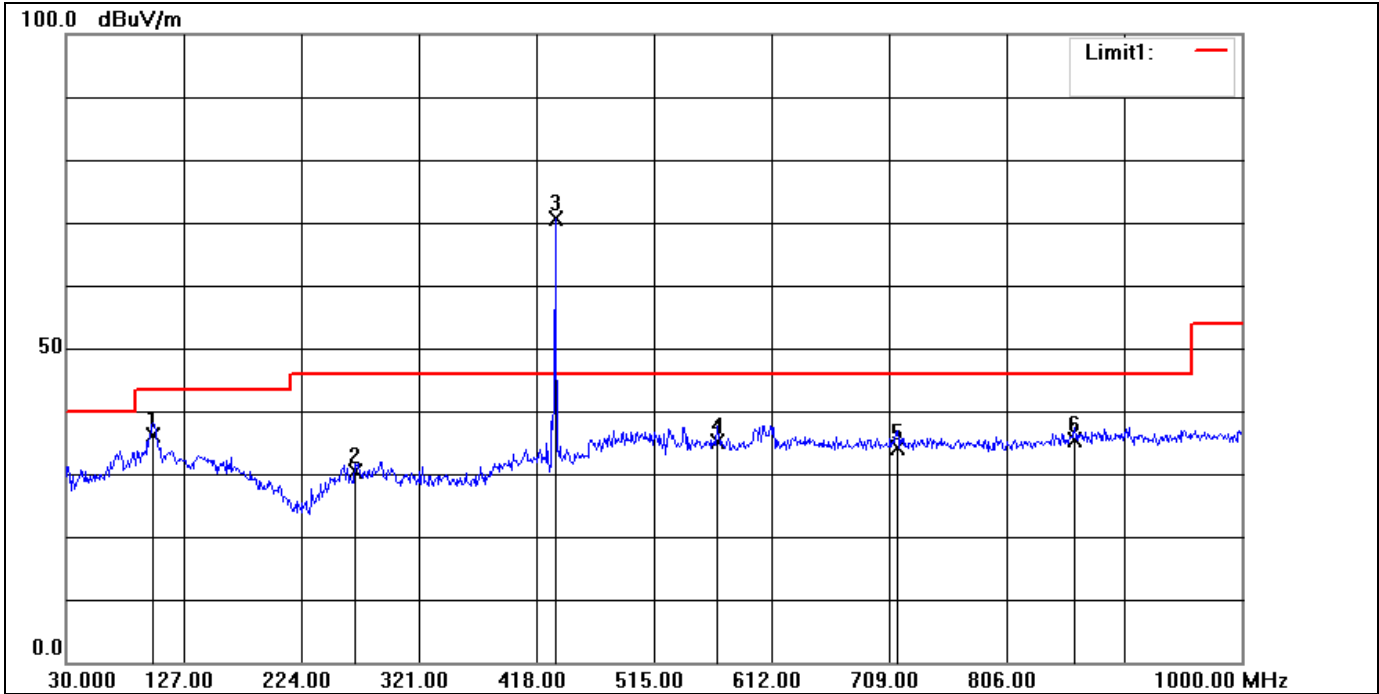
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	75.5900	20.38	14.90	35.28	40.00	-4.72	QP
2	129.9100	17.98	19.38	37.36	43.50	-6.14	QP
3	224.0000	21.09	16.93	38.02	46.00	-7.98	QP
4	260.8600	20.28	20.97	41.25	46.00	-4.75	QP
5	433.1000	47.52	23.99	71.51	100.83	-29.32	peak
6	800.1800	32.50	2.25	34.75	46.00	-11.25	QP



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433.70 MHz
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	101.7800	18.73	17.36	36.09	43.50	-7.41	QP
2	268.6200	9.68	20.59	30.27	46.00	-15.73	QP
3	433.7000	46.59	23.99	70.58	100.83	-30.25	peak
4	567.3800	7.91	27.33	35.24	46.00	-10.76	QP
5	715.7900	31.69	2.44	34.13	46.00	-11.87	QP
6	862.2600	33.10	2.21	35.31	46.00	-10.69	QP



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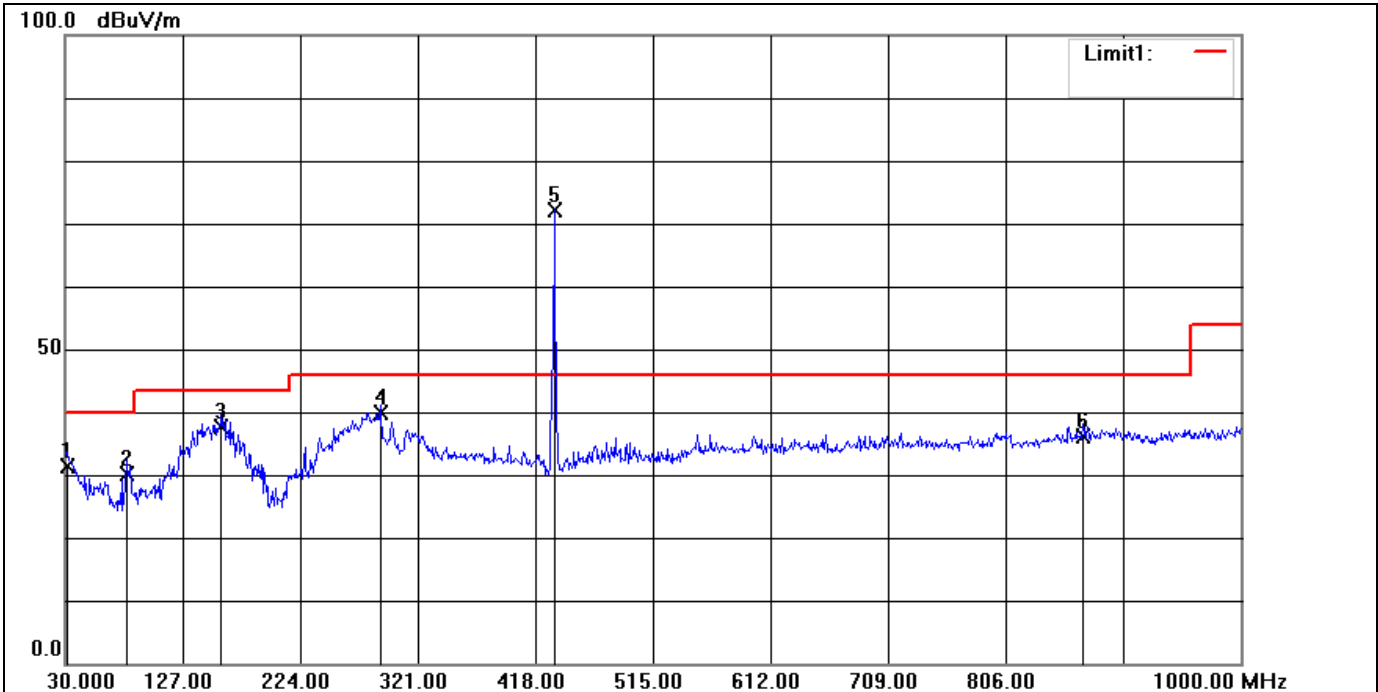
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Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	31.9400	6.10	25.16	31.26	40.00	-8.74	QP
2	80.4400	15.91	14.12	30.03	40.00	-9.97	QP
3	159.0100	20.06	17.50	37.56	43.50	-5.94	QP
4	289.9600	19.38	20.48	39.86	46.00	-6.14	QP
5	433.7000	48.21	23.99	72.20	100.83	-28.63	peak
6	870.0200	33.82	2.26	36.08	46.00	-9.92	QP



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3. Spurious Emissions(1-6GHz)

433.10MHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1680.00	62.28	-19.42	42.86	54.00	-11.14	peak	Vertical
2	2424.00	58.80	-13.90	44.90	54.00	-9.10	peak	Vertical
3	3340.00	58.22	-11.48	46.74	54.00	-7.26	peak	Vertical
4	1556.00	61.05	-19.50	41.55	54.00	-12.45	peak	Horizontal
5	2972.00	56.76	-12.11	44.65	54.00	-9.35	peak	Horizontal
6	3568.00	55.20	-10.44	44.76	54.00	-9.24	peak	Horizontal

433.70MHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1408.00	60.59	-19.84	40.75	54.00	-13.25	peak	Vertical
2	3636.00	53.68	-10.13	43.55	54.00	-10.45	peak	Vertical
3	4208.00	52.89	-9.08	43.81	54.00	10.19	peak	Vertical
4	1936.00	58.86	-16.42	42.44	54.00	-11.56	peak	Horizontal
5	3788.00	53.57	-9.71	43.86	54.00	-10.14	peak	Horizontal
6	4240.00	53.36	-9.06	44.30	54.00	-9.70	peak	Horizontal



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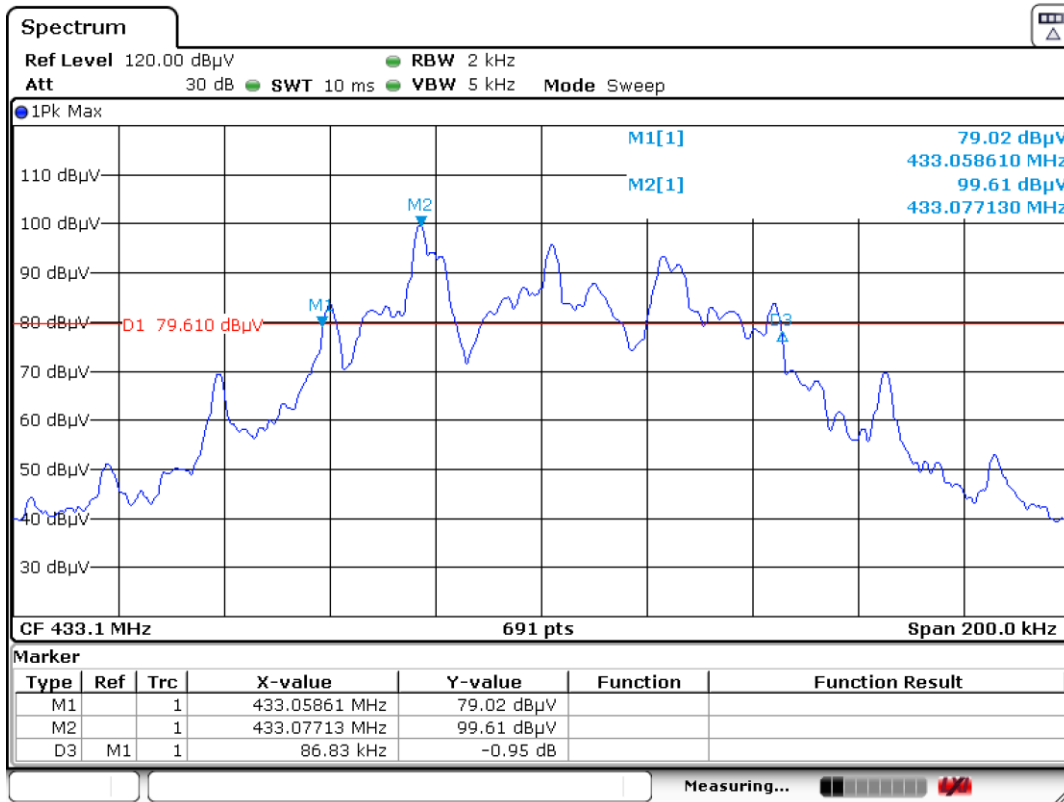
4. 20dB Bandwidth

Measurement Data:

Frequency(MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.10	86.83	1082.75	Pass
433.70	86.83	1084.25	Pass

Test plot as follows:

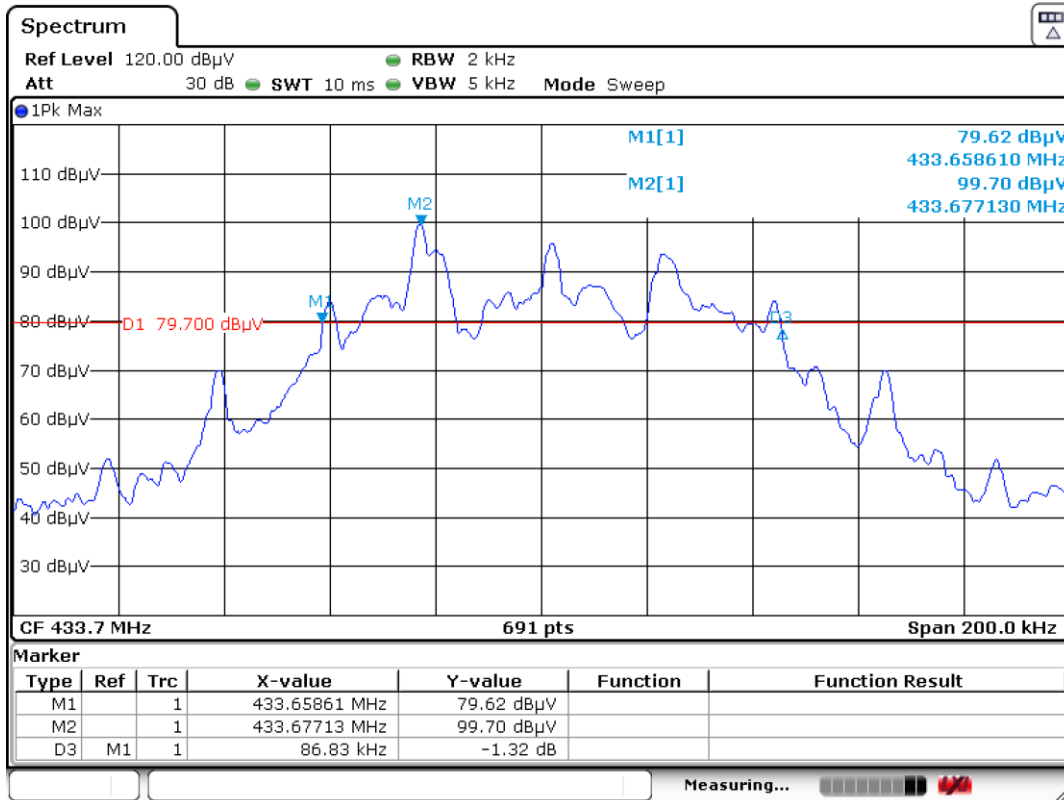
433.10MHz



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433.7MHz



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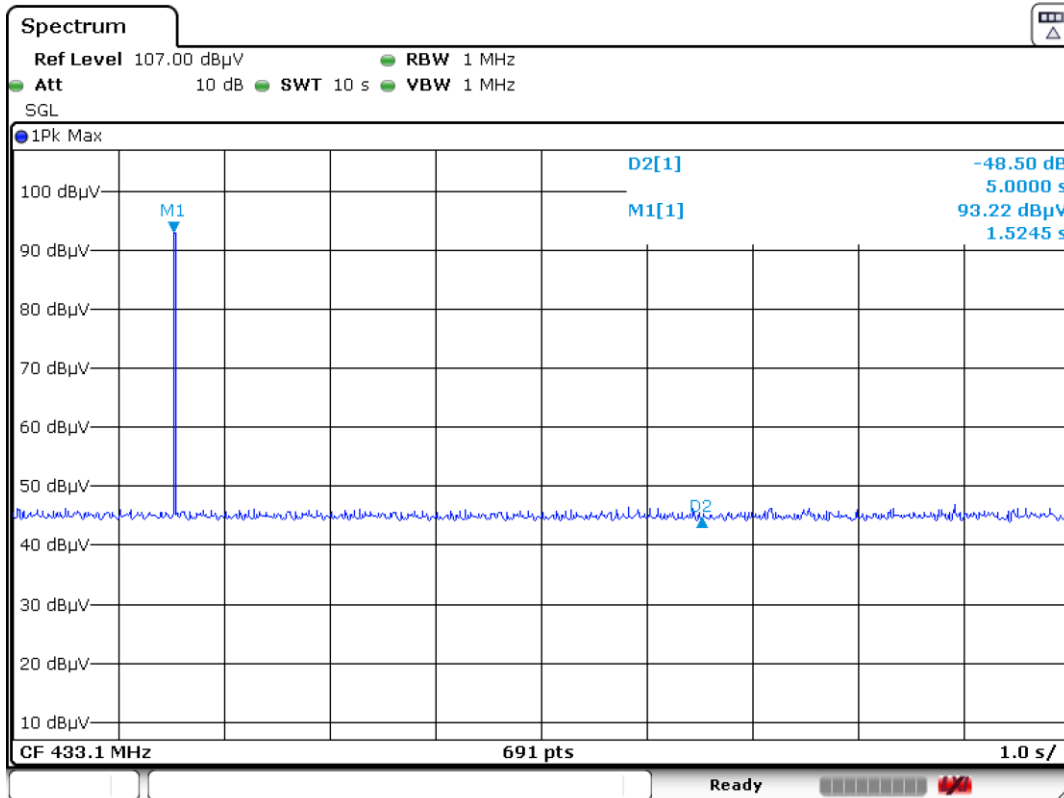
5. Dwell Time

Measurement Data:

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

Test plot as follows:

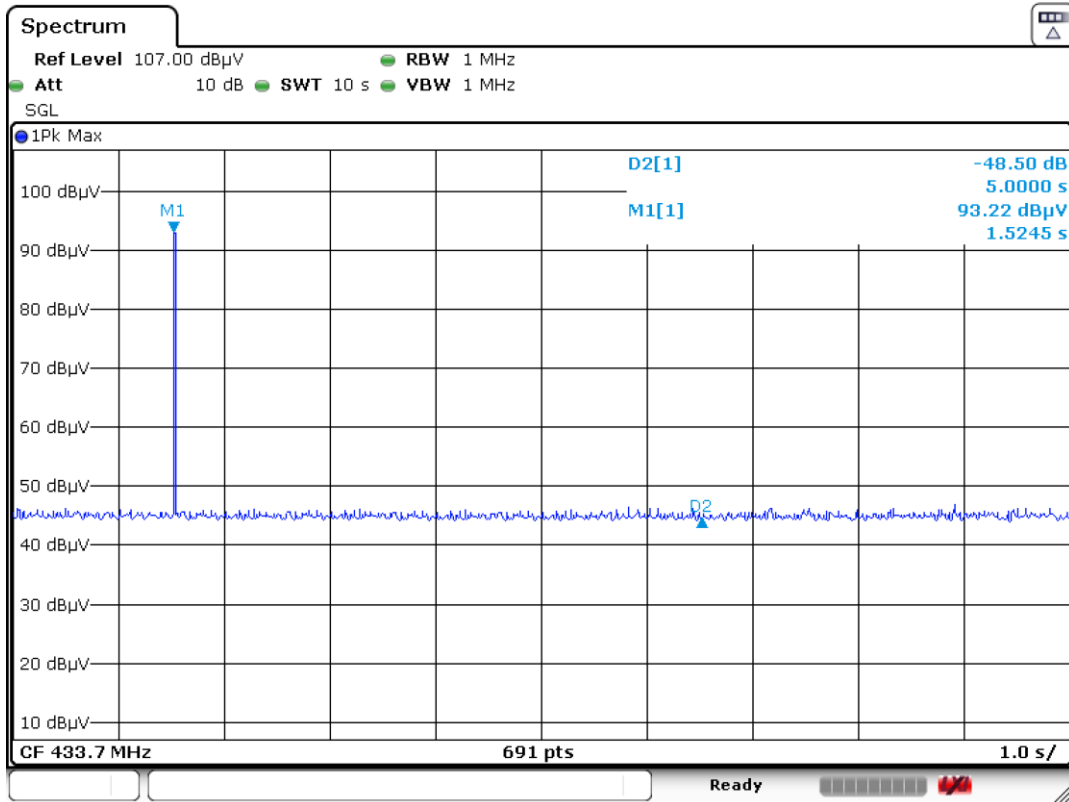
433.1MHz



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433.7MHz



Antenna 2

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	433.10	69.64	100.83	-31.19	Peak	Vertical
		73.60	100.83	-27.23	Peak	Horizontal
Channel 6	433.70	70.46	100.83	-30.37	Peak	Vertical
		73.42	100.83	-27.41	Peak	Horizontal

Remark:

- If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



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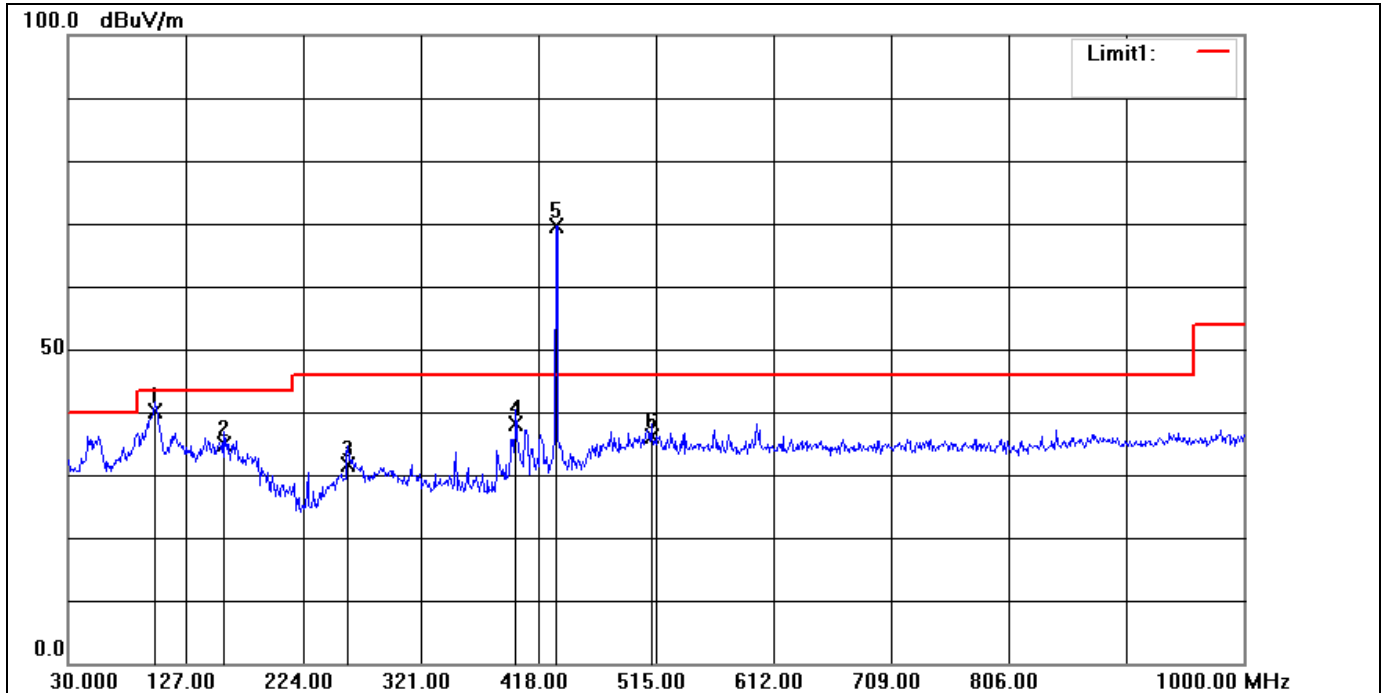
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2. Spurious Emissions(30M-1GHz)

433.10MHz

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	101.7800	22.66	17.36	40.02	43.50	-3.48	QP
2	158.0400	17.40	17.54	34.94	43.50	-8.56	QP
3	260.8600	10.66	20.97	31.63	46.00	-14.37	QP
4	399.5700	14.84	23.32	38.16	46.00	-7.84	QP
5	433.1200	45.65	23.99	69.64	100.83	-31.19	peak
6	511.1200	10.22	25.83	36.05	46.00	-9.95	QP



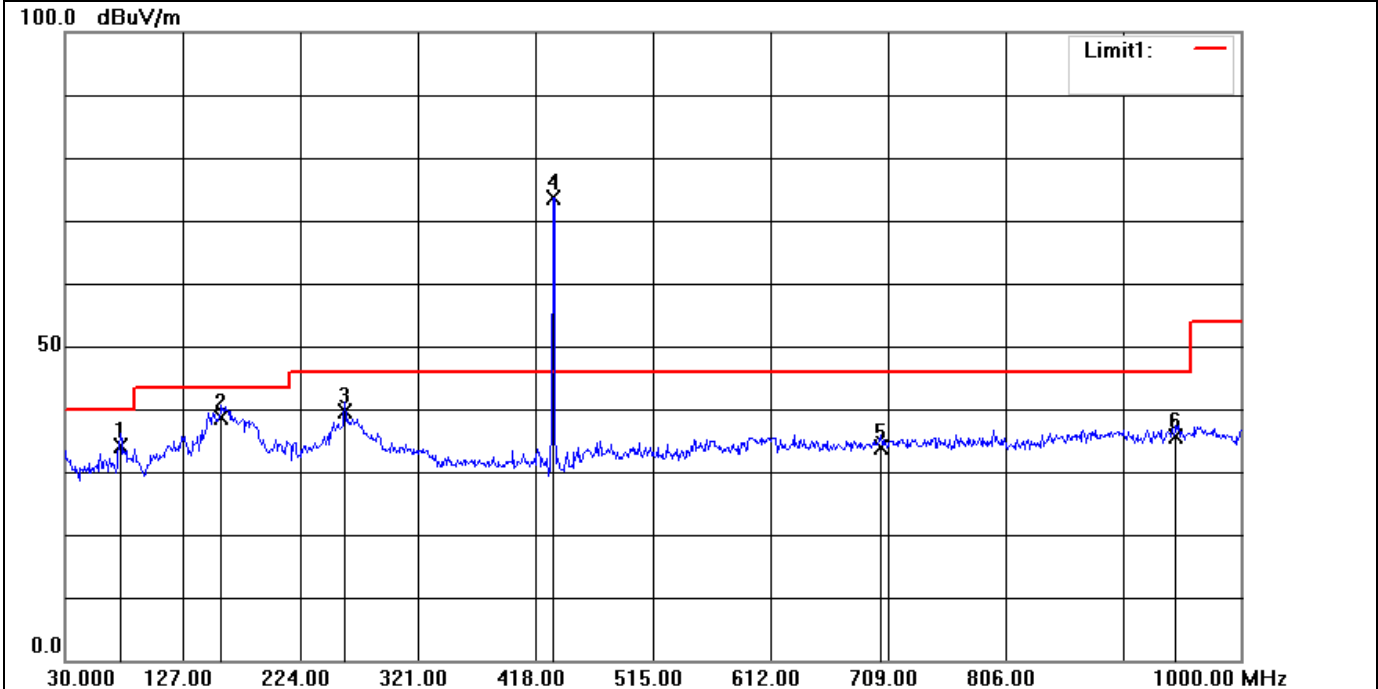
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Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	75.5900	19.11	14.90	34.01	40.00	-5.99	QP
2	159.0100	21.06	17.50	38.56	43.50	-4.94	QP
3	260.8600	18.59	20.97	39.56	46.00	-6.44	QP
4	433.1000	49.61	23.99	73.60	100.83	-27.23	peak
5	703.1800	31.32	2.47	33.79	46.00	-12.21	QP
6	946.6500	33.02	2.62	35.64	46.00	-10.36	QP



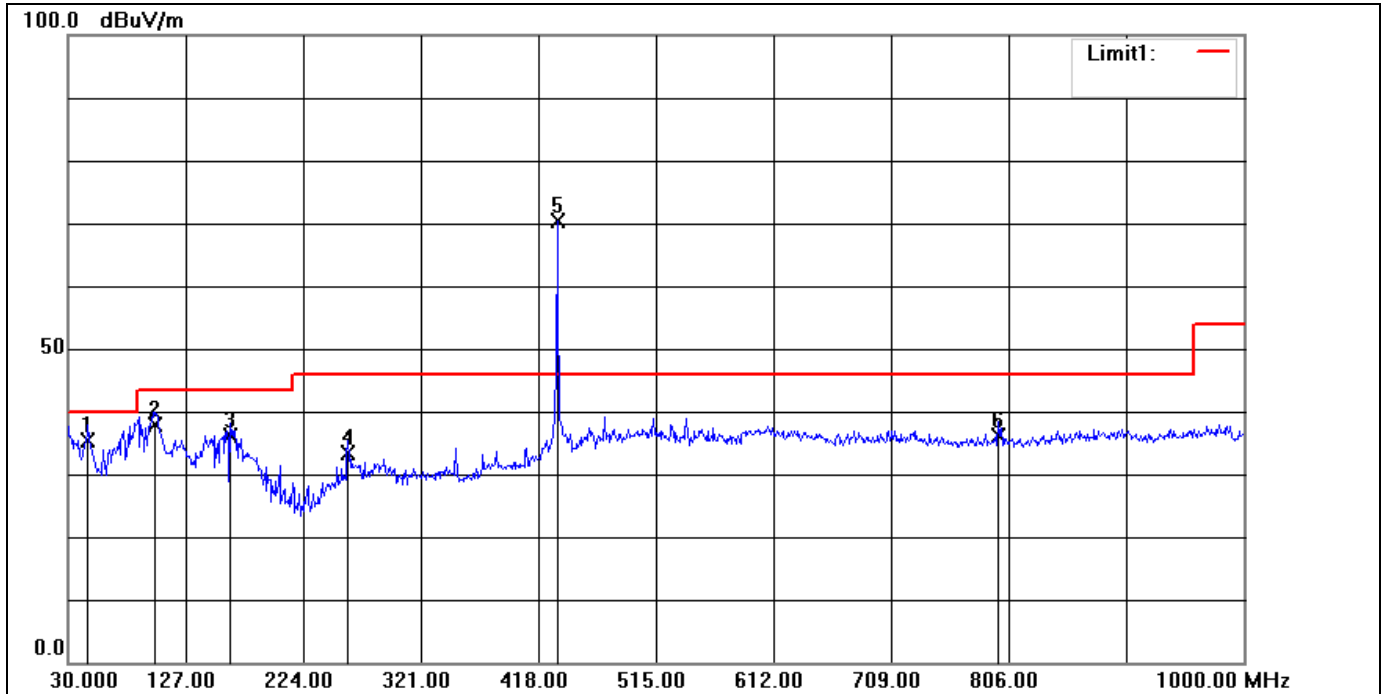
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433.70 MHz
Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	46.4900	16.09	19.17	35.26	40.00	-4.74	QP
2	101.7800	20.47	17.36	37.83	43.50	-5.67	QP
3	163.8600	18.72	17.29	36.01	43.50	-7.49	QP
4	260.8600	12.50	20.97	33.47	46.00	-12.53	QP
5	433.7000	46.47	23.99	70.46	100.83	-30.37	peak
6	797.2700	33.99	2.26	36.25	46.00	-9.75	QP

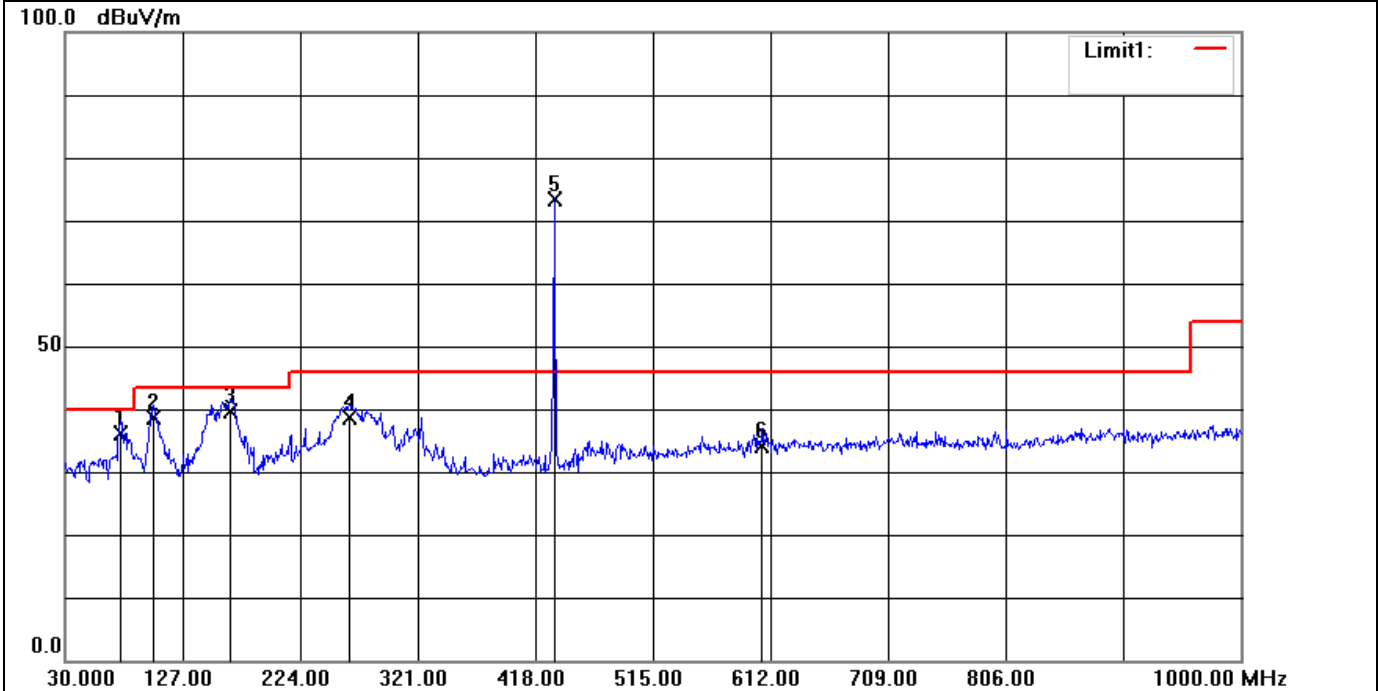


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Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	75.5900	21.31	14.90	36.21	40.00	-3.79	QP
2	102.7500	21.01	17.51	38.52	43.50	-4.98	QP
3	165.8000	22.44	17.20	39.64	43.50	-3.86	QP
4	264.7400	17.69	20.98	38.67	46.00	-7.33	QP
5	433.7000	49.43	23.99	73.42	100.83	-27.41	peak
6	605.2100	7.09	27.07	34.16	46.00	-11.84	QP



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3. Spurious Emissions(1-6GHz)

433.10MHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1436.00	63.23	-19.77	43.46	54.00	-10.54	peak	Vertical
2	2980.00	57.17	-12.08	45.09	54.00	-8.91	peak	Vertical
3	3552.00	55.05	-10.54	44.51	54.00	-9.49	peak	Vertical
4	1584.00	61.19	-19.43	41.76	54.00	-12.24	peak	Horizontal
5	2652.00	56.08	-13.20	42.88	54.00	-11.12	peak	Horizontal
6	3684.00	53.88	-10.00	43.88	54.00	-10.12	peak	Horizontal

433.70MHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1620.00	60.91	-19.40	41.51	54.00	-12.49	peak	Vertical
2	3612.00	54.86	-10.19	44.67	54.00	-9.33	peak	Vertical
3	3936.00	53.16	-10.13	43.03	54.00	-10.97	peak	Vertical
4	2048.00	56.86	-14.89	41.97	54.00	-12.03	peak	Horizontal
5	3172.00	54.51	-11.41	43.10	54.00	-10.90	peak	Horizontal
6	4580.00	54.99	-8.56	46.43	54.00	-7.57	peak	Horizontal

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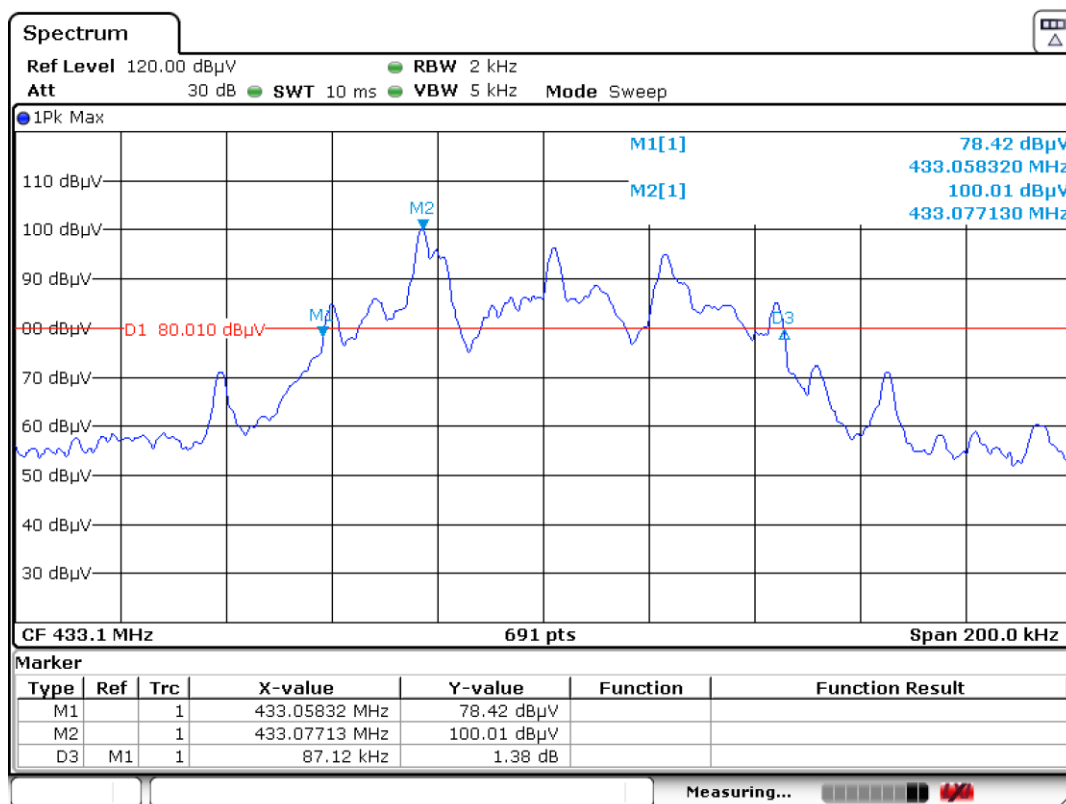
4. 20dB Bandwidth

Measurement Data:

Frequency(MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.10	87.12	1082.75	Pass
433.70	86.83	1084.25	Pass

Test plot as follows:

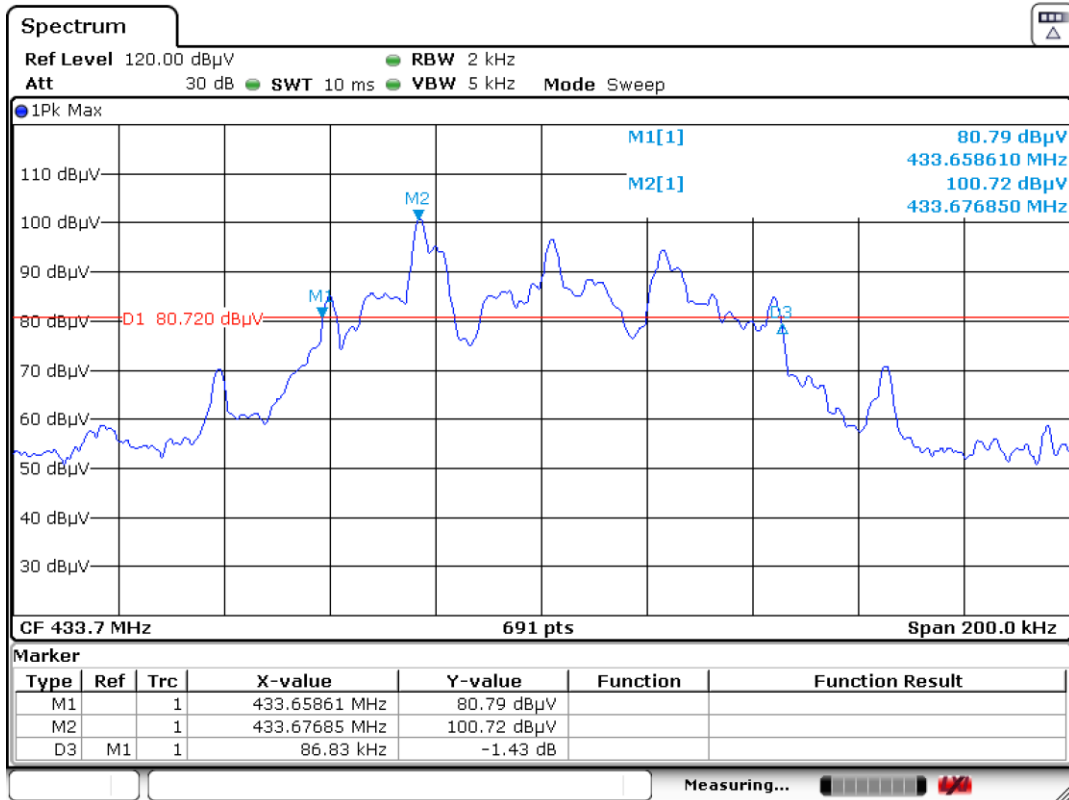
433.1MHz



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433.7MHz



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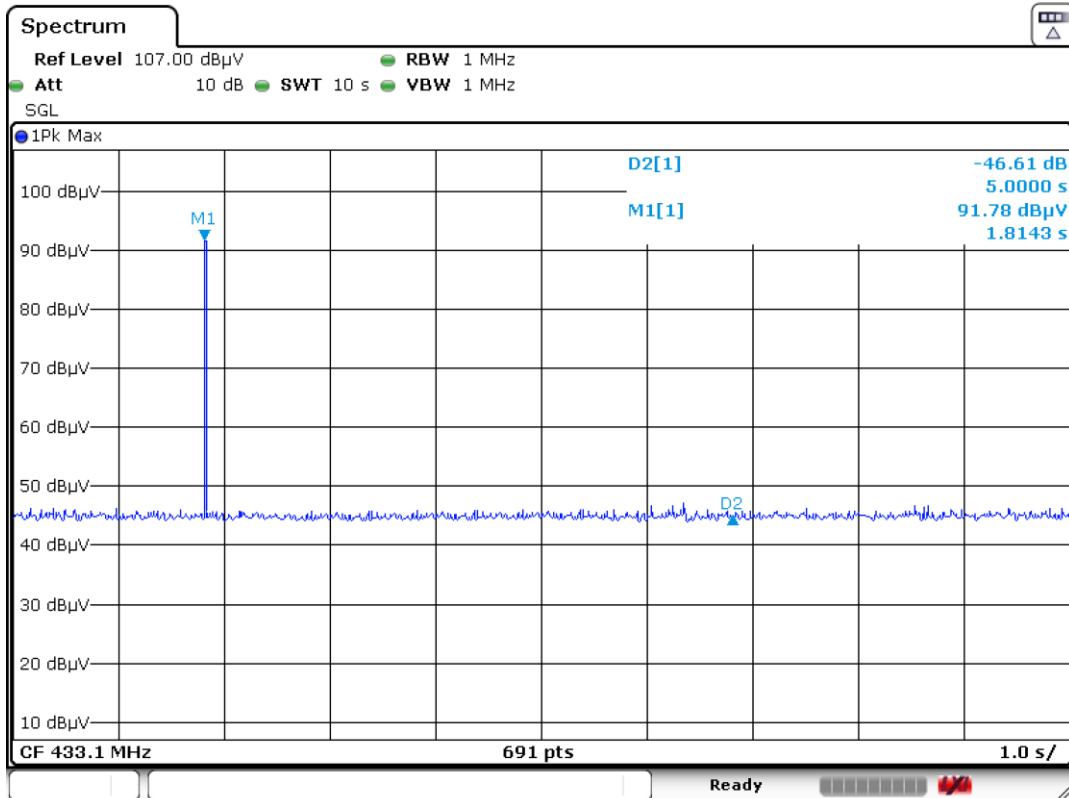
5. Dwell Time

Measurement Data:

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

Test plot as follows:

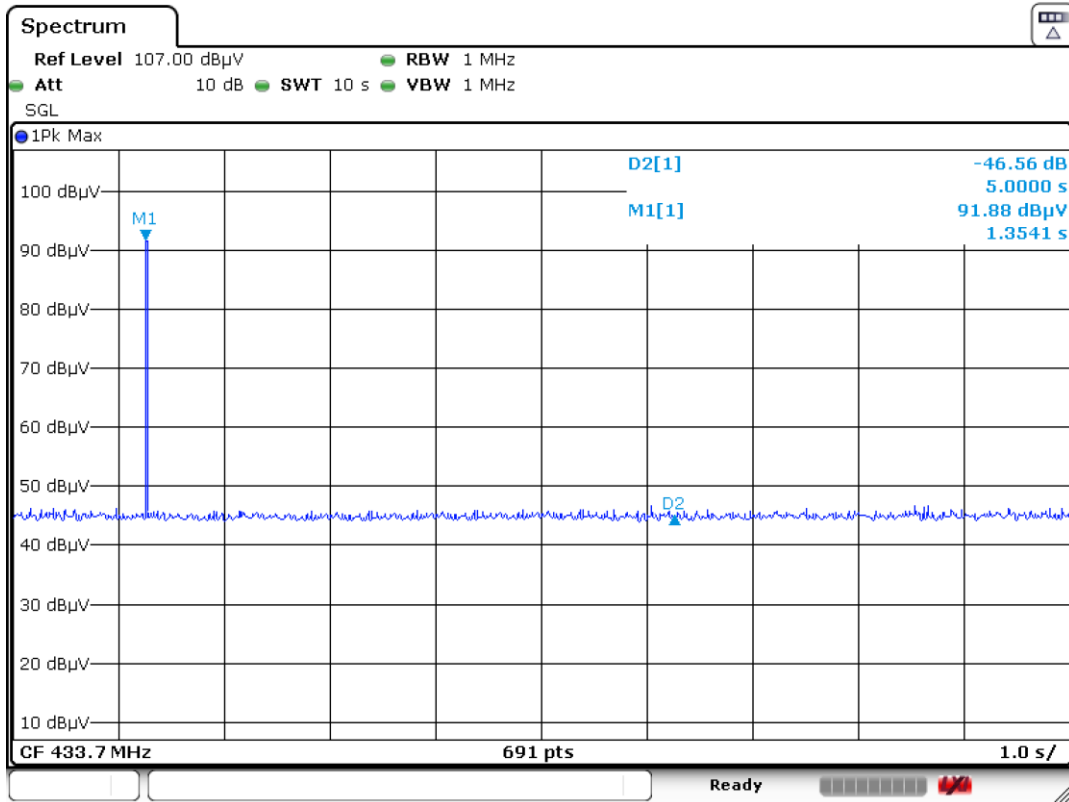
433.1MHz



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433.7MHz



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