



Appendix B

WCDMA Band II & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Modulation	Channel	Subtest	Conducted Power (dBm)	EIRP(dBm)	Limit(dBm)	Verdict
WCDMA Band II	QPSK	9262	---	23.54	23.01	33.00	PASS
WCDMA Band II	QPSK	9400	---	23.52	22.99	33.00	PASS
WCDMA Band II	QPSK	9538	---	23.46	22.93	33.00	PASS
HSDPA Band II	QPSK	9262	Subtest 1	22.55	22.02	33.00	PASS
HSDPA Band II	QPSK	9262	Subtest 2	22.51	21.98	33.00	PASS
HSDPA Band II	QPSK	9262	Subtest 3	22.02	21.49	33.00	PASS
HSDPA Band II	QPSK	9262	Subtest 4	22.03	21.50	33.00	PASS
HSDPA Band II	QPSK	9400	Subtest 1	22.56	22.03	33.00	PASS
HSDPA Band II	QPSK	9400	Subtest 2	22.53	22.00	33.00	PASS
HSDPA Band II	QPSK	9400	Subtest 3	22.05	21.52	33.00	PASS
HSDPA Band II	QPSK	9400	Subtest 4	21.97	21.44	33.00	PASS
HSDPA Band II	QPSK	9538	Subtest 1	22.42	21.89	33.00	PASS
HSDPA Band II	QPSK	9538	Subtest 2	22.41	21.88	33.00	PASS
HSDPA Band II	QPSK	9538	Subtest 3	21.93	21.40	33.00	PASS
HSDPA Band II	QPSK	9538	Subtest 4	21.82	21.29	33.00	PASS
HSUPA Band II	QPSK	9262	Subtest 1	20.55	20.02	33.00	PASS
HSUPA Band II	QPSK	9262	Subtest 2	20.52	19.99	33.00	PASS
HSUPA Band II	QPSK	9262	Subtest 3	21.50	20.97	33.00	PASS
HSUPA Band II	QPSK	9262	Subtest 4	20.06	19.53	33.00	PASS
HSUPA Band II	QPSK	9262	Subtest 5	21.52	20.99	33.00	PASS
HSUPA Band II	QPSK	9400	Subtest 1	20.51	19.98	33.00	PASS
HSUPA Band II	QPSK	9400	Subtest 2	20.49	19.96	33.00	PASS
HSUPA Band II	QPSK	9400	Subtest 3	21.44	20.91	33.00	PASS
HSUPA Band II	QPSK	9400	Subtest 4	20.02	19.49	33.00	PASS
HSUPA Band II	QPSK	9400	Subtest 5	21.47	20.94	33.00	PASS
HSUPA Band II	QPSK	9538	Subtest 1	20.42	19.89	33.00	PASS
HSUPA Band II	QPSK	9538	Subtest 2	20.40	19.87	33.00	PASS
HSUPA Band II	QPSK	9538	Subtest 3	21.36	20.83	33.00	PASS
HSUPA Band II	QPSK	9538	Subtest 4	19.93	19.40	33.00	PASS
HSUPA Band II	QPSK	9538	Subtest 5	21.39	20.86	33.00	PASS
HSPA+ Band II	16QAM	9262	---	21.03	20.50	33.00	PASS
HSPA+ Band II	16QAM	9400	---	21.07	20.54	33.00	PASS
HSPA+ Band II	16QAM	9538	---	21.02	20.49	33.00	PASS



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BAND	Modulation	Channel	Subtest	Conducted Power (dBm)	ERP(dBm)	Limit(dBm)	Verdict
WCDMA Band V	QPSK	4132	---	23.83	17.52	38.45	PASS
WCDMA Band V	QPSK	4182	---	23.78	17.47	38.45	PASS
WCDMA Band V	QPSK	4233	---	23.79	17.48	38.45	PASS
HSDPA Band V	QPSK	4132	Subtest 1	22.79	16.48	38.45	PASS
HSDPA Band V	QPSK	4132	Subtest 2	22.73	16.42	38.45	PASS
HSDPA Band V	QPSK	4132	Subtest 3	22.24	15.93	38.45	PASS
HSDPA Band V	QPSK	4132	Subtest 4	22.29	15.98	38.45	PASS
HSDPA Band V	QPSK	4182	Subtest 1	22.82	16.51	38.45	PASS
HSDPA Band V	QPSK	4182	Subtest 2	22.78	16.47	38.45	PASS
HSDPA Band V	QPSK	4182	Subtest 3	22.22	15.91	38.45	PASS
HSDPA Band V	QPSK	4182	Subtest 4	22.18	15.87	38.45	PASS
HSDPA Band V	QPSK	4233	Subtest 1	22.78	16.47	38.45	PASS
HSDPA Band V	QPSK	4233	Subtest 2	22.75	16.44	38.45	PASS
HSDPA Band V	QPSK	4233	Subtest 3	22.30	15.99	38.45	PASS
HSDPA Band V	QPSK	4233	Subtest 4	22.30	15.99	38.45	PASS
HSUPA Band V	QPSK	4132	Subtest 1	20.76	14.45	38.45	PASS
HSUPA Band V	QPSK	4132	Subtest 2	20.78	14.47	38.45	PASS
HSUPA Band V	QPSK	4132	Subtest 3	21.72	15.41	38.45	PASS
HSUPA Band V	QPSK	4132	Subtest 4	20.20	13.89	38.45	PASS
HSUPA Band V	QPSK	4132	Subtest 5	21.75	15.44	38.45	PASS
HSUPA Band V	QPSK	4182	Subtest 1	20.73	14.42	38.45	PASS
HSUPA Band V	QPSK	4182	Subtest 2	20.70	14.39	38.45	PASS
HSUPA Band V	QPSK	4182	Subtest 3	21.75	15.44	38.45	PASS
HSUPA Band V	QPSK	4182	Subtest 4	20.24	13.93	38.45	PASS
HSUPA Band V	QPSK	4182	Subtest 5	21.76	15.45	38.45	PASS
HSUPA Band V	QPSK	4233	Subtest 1	20.71	14.40	38.45	PASS
HSUPA Band V	QPSK	4233	Subtest 2	20.78	14.47	38.45	PASS
HSUPA Band V	QPSK	4233	Subtest 3	21.73	15.42	38.45	PASS
HSUPA Band V	QPSK	4233	Subtest 4	20.20	13.89	38.45	PASS
HSUPA Band V	QPSK	4233	Subtest 5	21.78	15.47	38.45	PASS
HSPA+ Band V	16QAM	4132	---	20.72	14.41	38.45	PASS
HSPA+ Band V	16QAM	4182	---	20.68	14.37	38.45	PASS
HSPA+ Band V	16QAM	4233	---	20.65	14.34	38.45	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

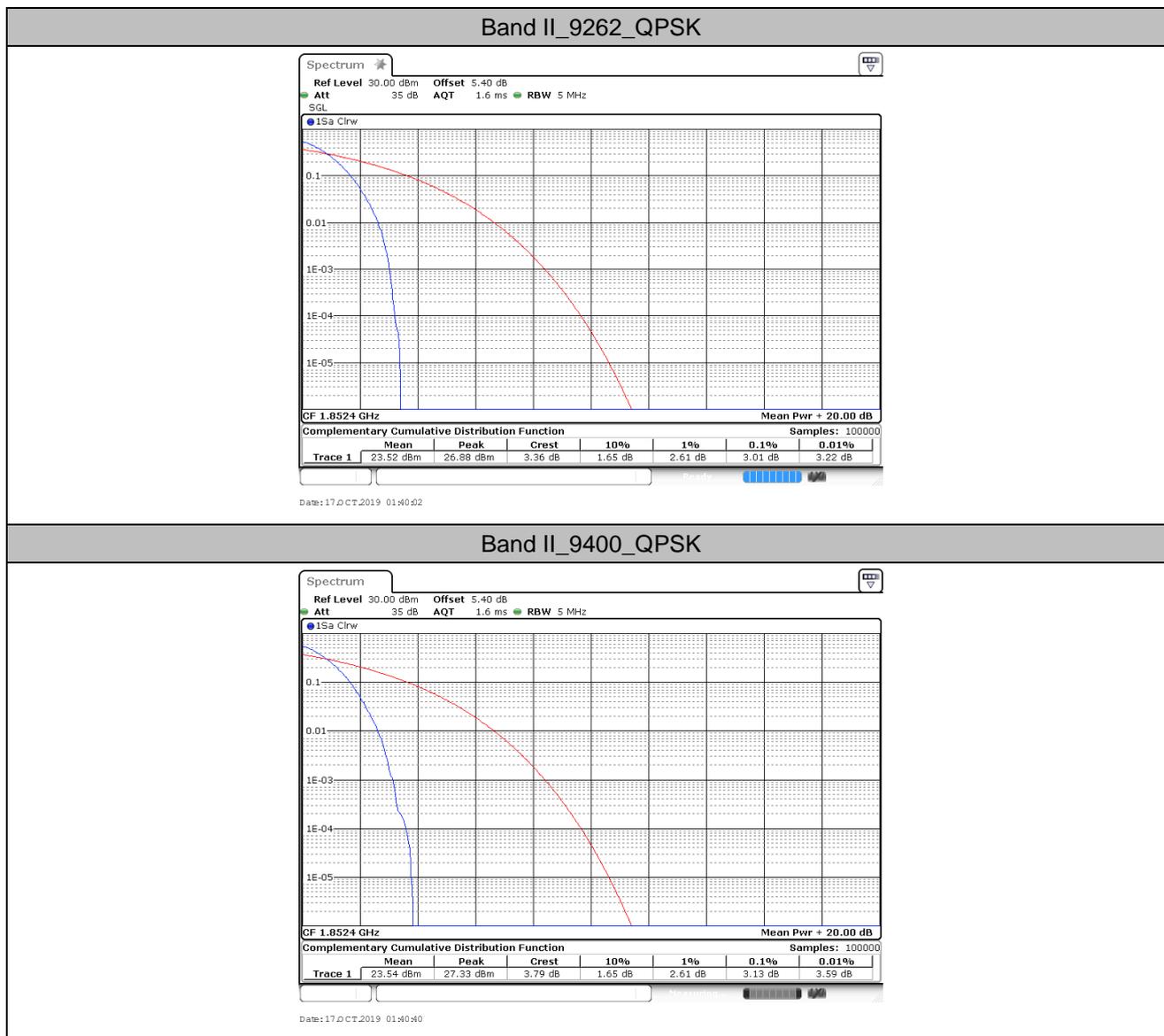
Band	Channel	Modulation	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	QPSK	3.01	13	PASS
Band II	9400	QPSK	3.13	13	PASS
Band II	9538	QPSK	3.01	13	PASS
Band II	9262	16QAM	3.01	13	PASS
Band II	9400	16QAM	3.04	13	PASS
Band II	9538	16QAM	3.04	13	PASS
Band V	4132	QPSK	3.16	13	PASS
Band V	4182	QPSK	3.04	13	PASS
Band V	4233	QPSK	3.01	13	PASS
Band V	4132	16QAM	3.16	13	PASS
Band V	4182	16QAM	3.07	13	PASS
Band V	4233	16QAM	3.04	13	PASS



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2.2. Test Plots

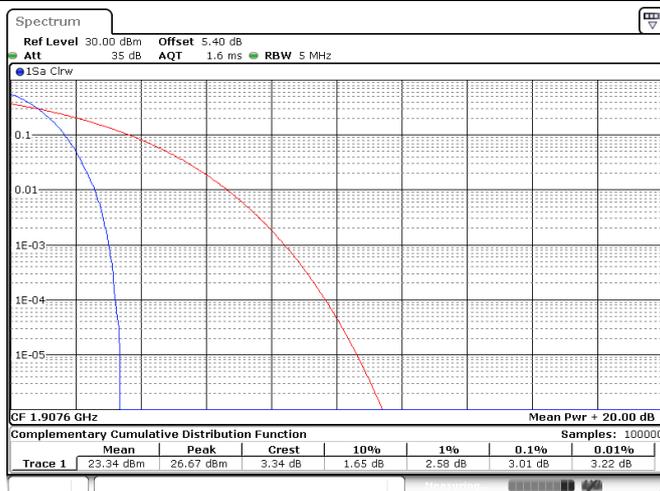


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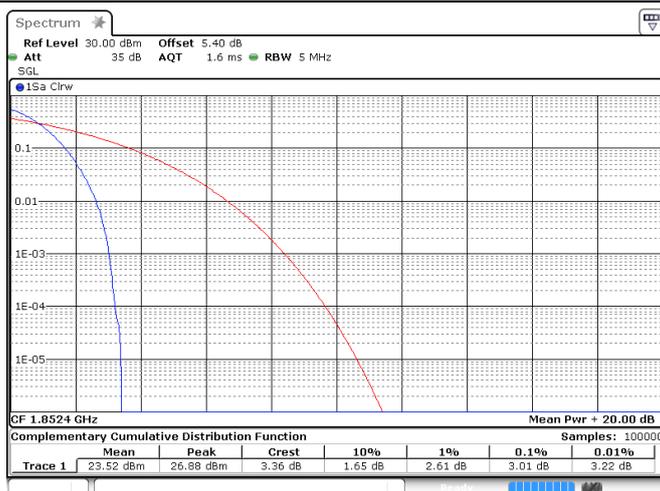


Band II_9538_QPSK



Date: 17/07/2019 01:41:02

Band II_9262_16QAM



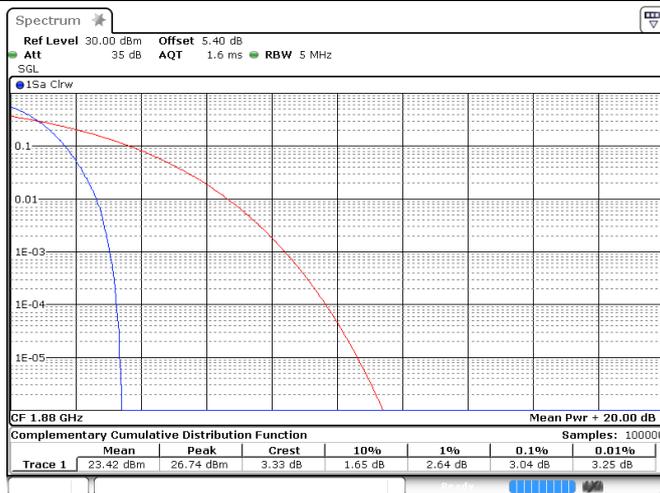
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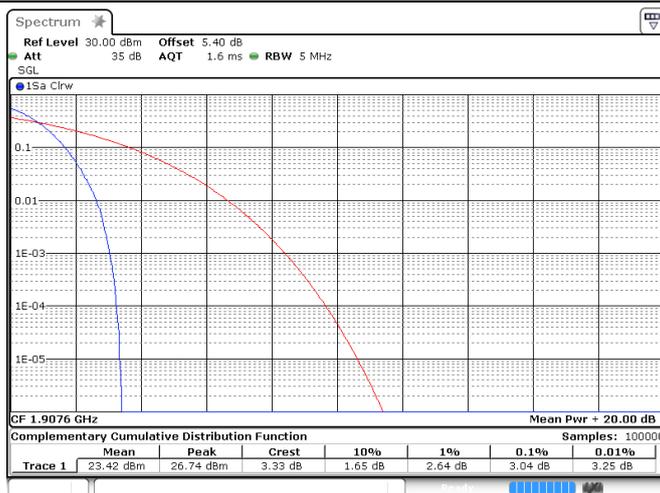
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Band II_9400_16QAM



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Band II_9538_16QAM

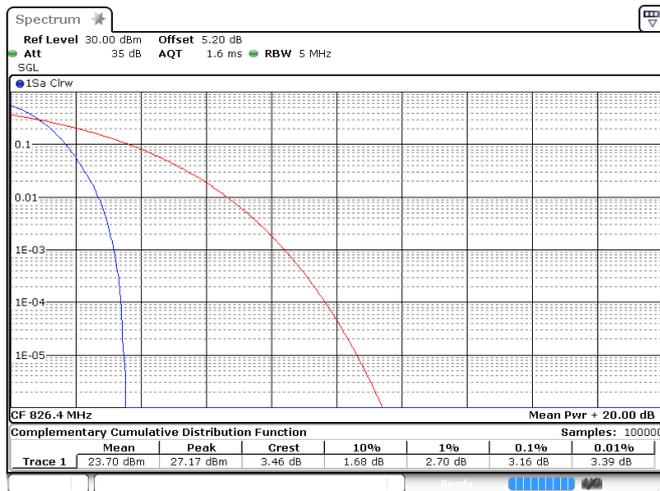


Date: 17 OCT 2019 02:43:35



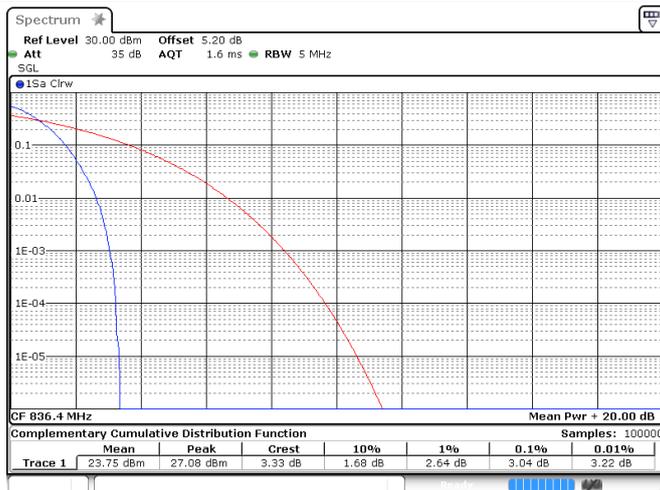
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Band V_4132_QPSK



Date: 17 Oct 2019 01:54:14

Band V_4182_QPSK



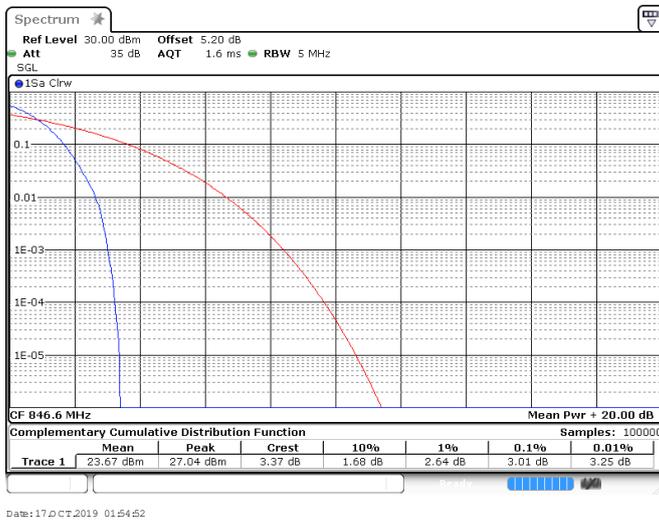
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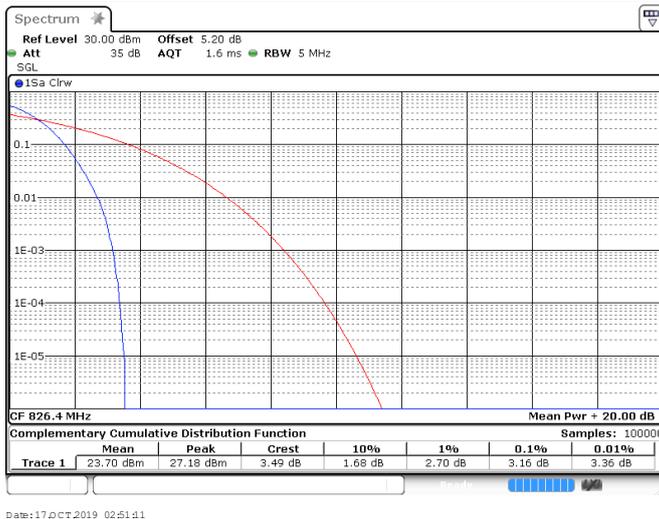
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Band V_4233_QPSK



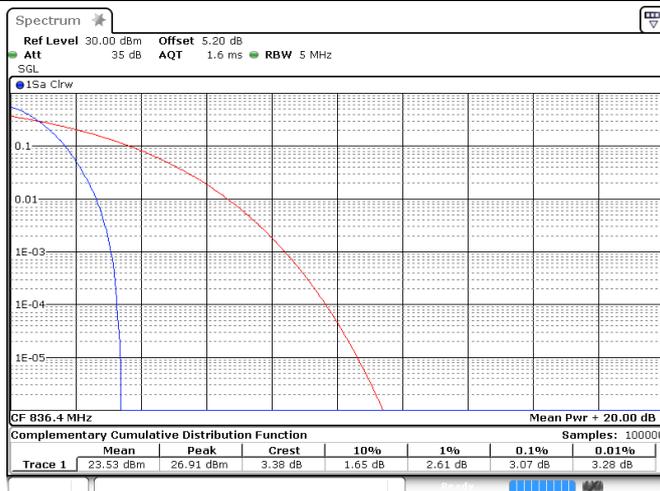
Band V_4132_16QAM



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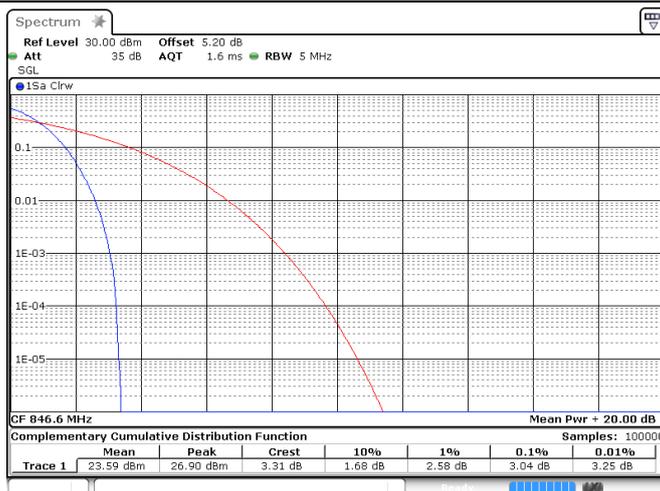
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Band V_4182_16QAM



Date: 17 OCT 2019 02:51:27

Band V_4233_16QAM



Date: 17 OCT 2019 02:51:44



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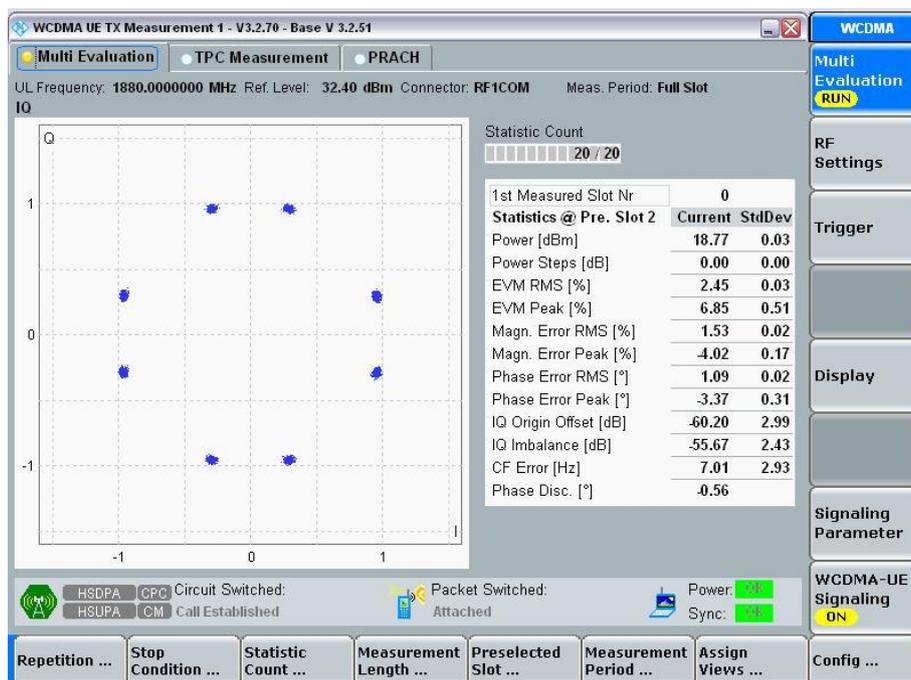
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

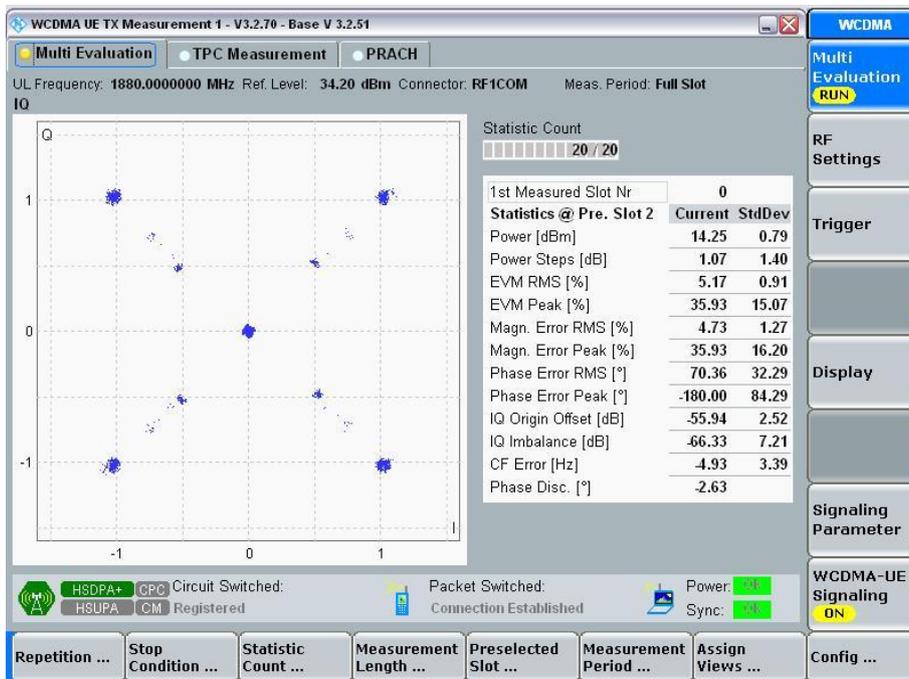
3.1.1.1. Test Channel = MCH



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3.1.2. Test Mode = UMTS/TM2

3.1.2.1. Test Channel = MCH



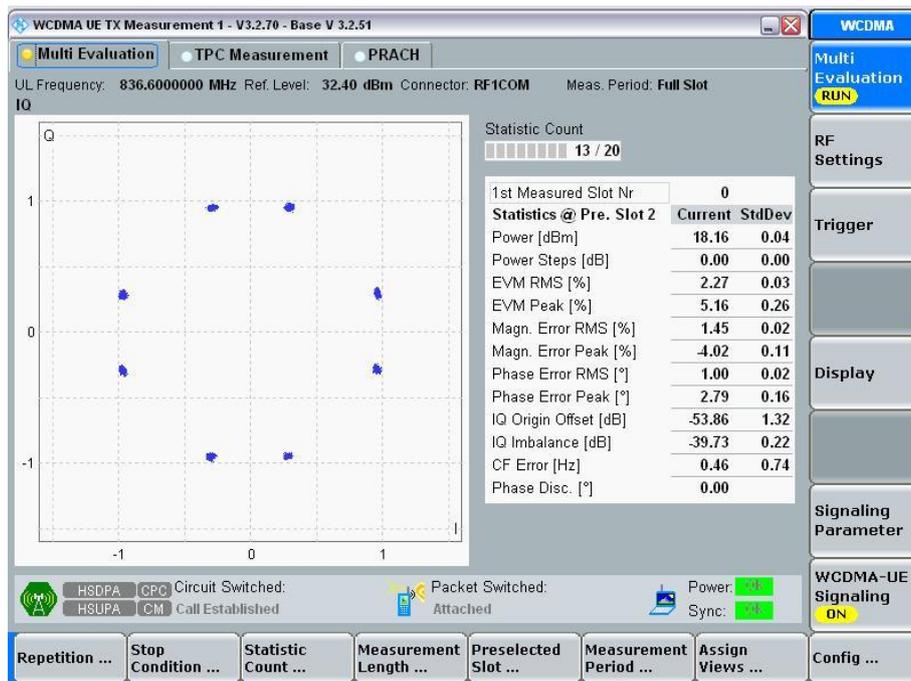
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3.2. Test Band = WCDMA Band V

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH

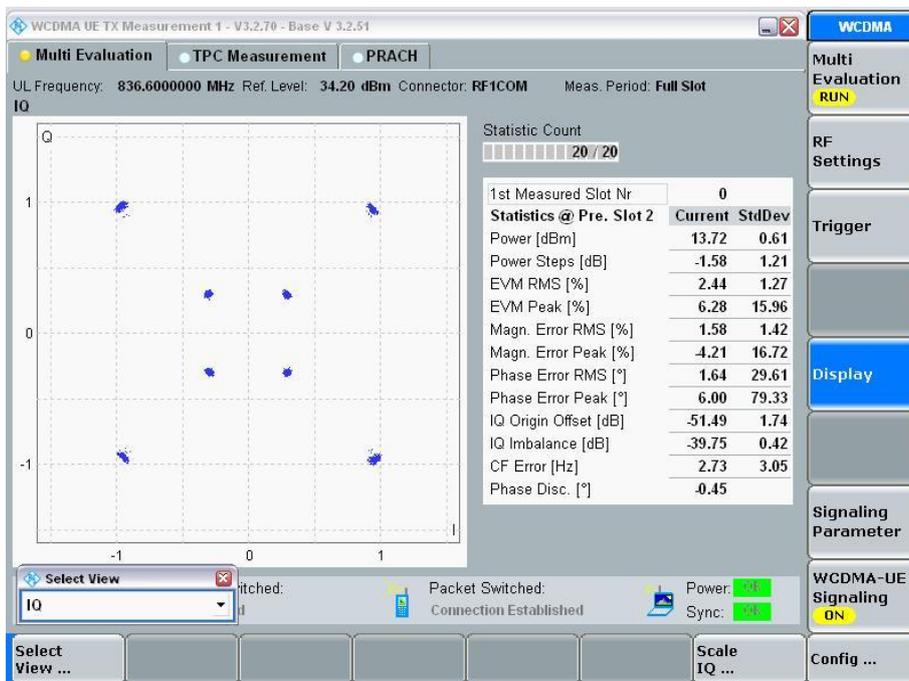


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3.2.2. Test Mode = UMTS/TM2

3.2.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

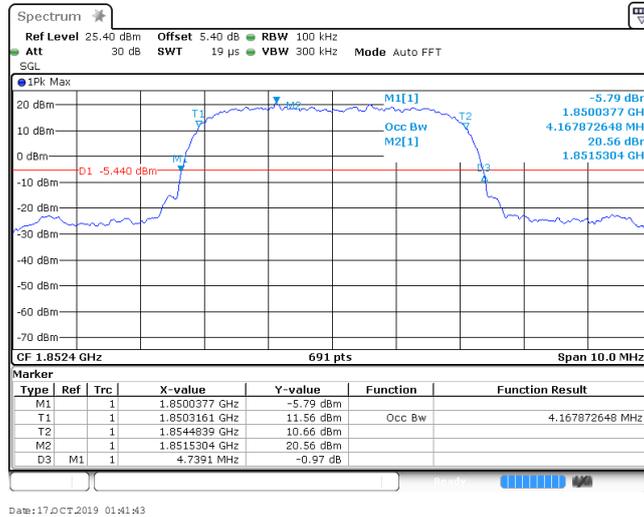
Band	Channel	Modulation	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	QPSK	4167.9	4739	---	PASS
Band II	9400	QPSK	4167.9	4739	---	PASS
Band II	9538	QPSK	4153.4	4739	---	PASS
Band II	9262	16QAM	4167.9	4739	---	PASS
Band II	9400	16QAM	4167.9	4725	---	PASS
Band II	9538	16QAM	4153.4	4754	---	PASS
Band V	4132	QPSK	4153.4	4725	---	PASS
Band V	4182	QPSK	4153.4	4725	---	PASS
Band V	4233	QPSK	4153.4	4725	---	PASS
Band V	4132	16QAM	4153.4	4725	---	PASS
Band V	4182	16QAM	4153.4	4725	---	PASS
Band V	4233	16QAM	4153.4	4725	---	PASS



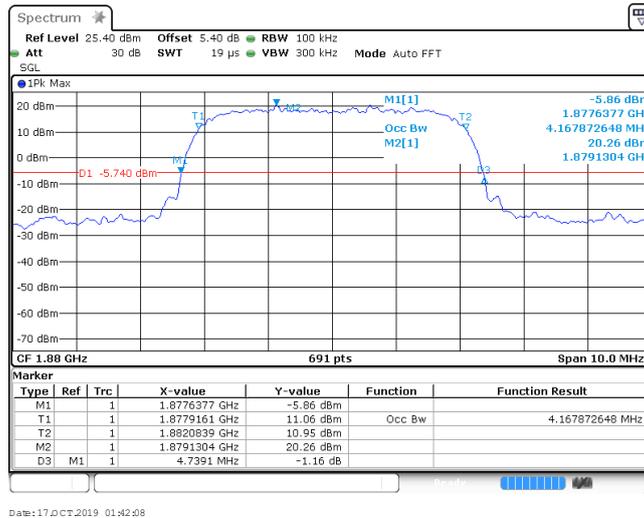
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4.2. Test Plots



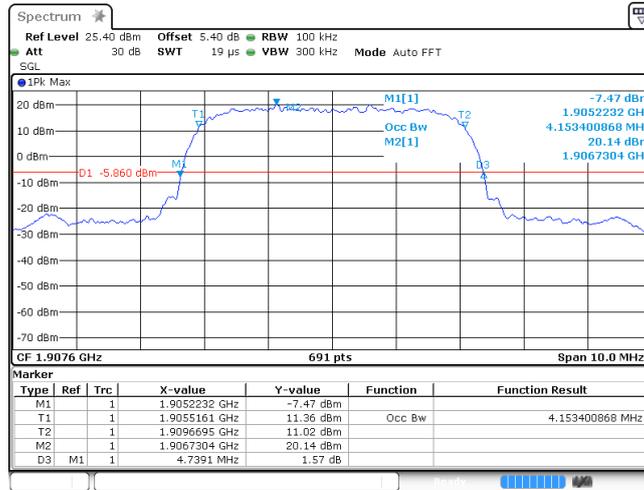
Band II_9262_QPSK



Band II_9400_QPSK

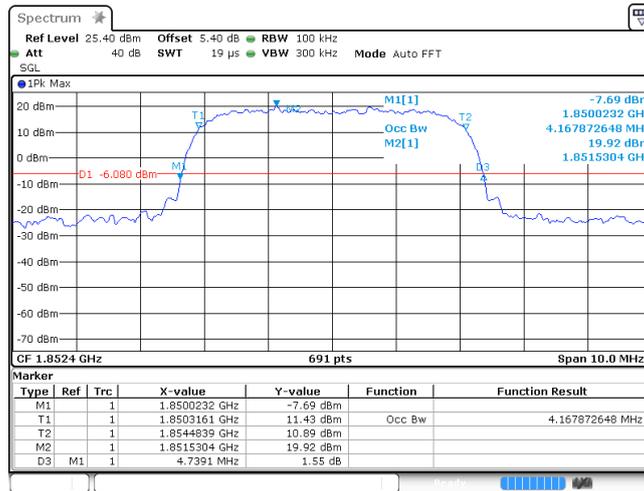


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Date: 17 OCT 2019 01:42:22

Band II_9538_QPSK

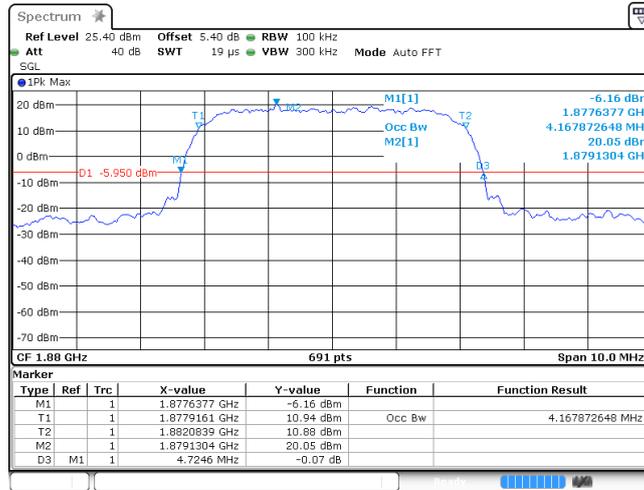


Date: 17 OCT 2019 02:41:19

Band II_9262_16QAM

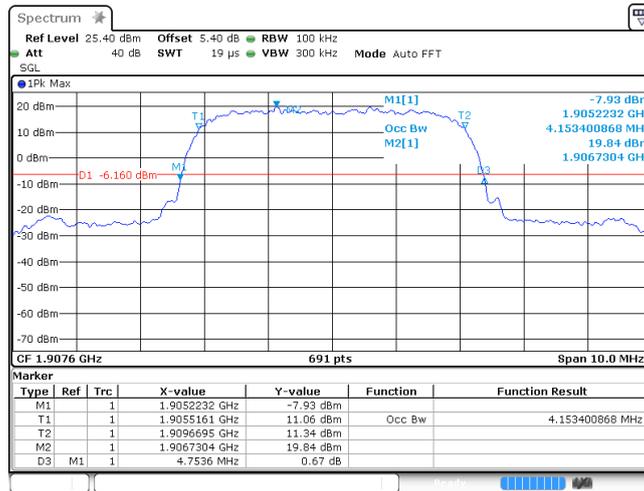


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Date: 17 OCT 2019 02:41:44

Band II_9400_16QAM

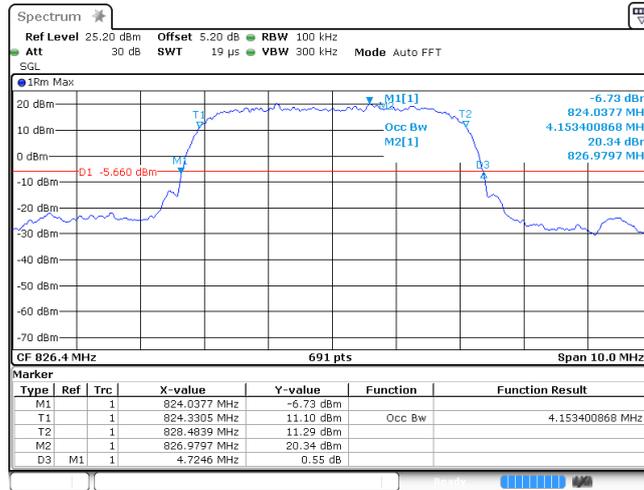


Date: 17 OCT 2019 02:42:08

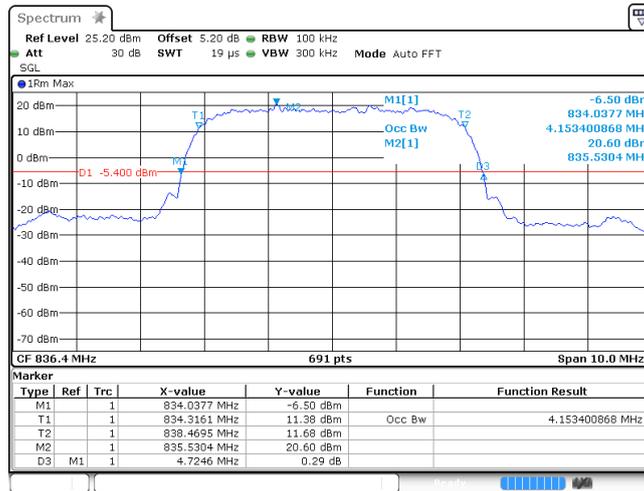
Band II_9538_16QAM



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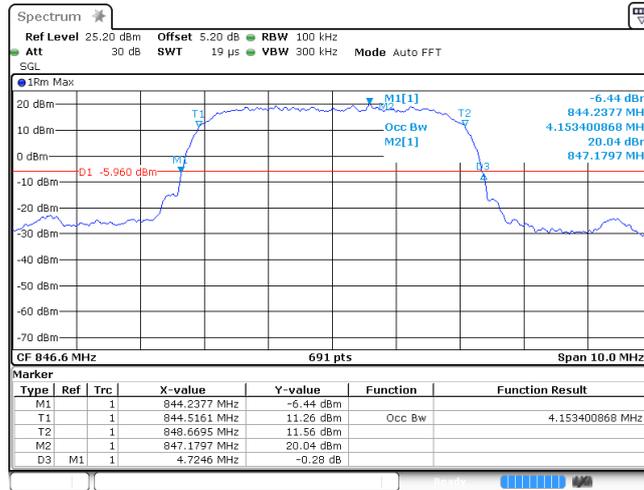
Band V_4132_QPSK



Band V_4182_QPSK

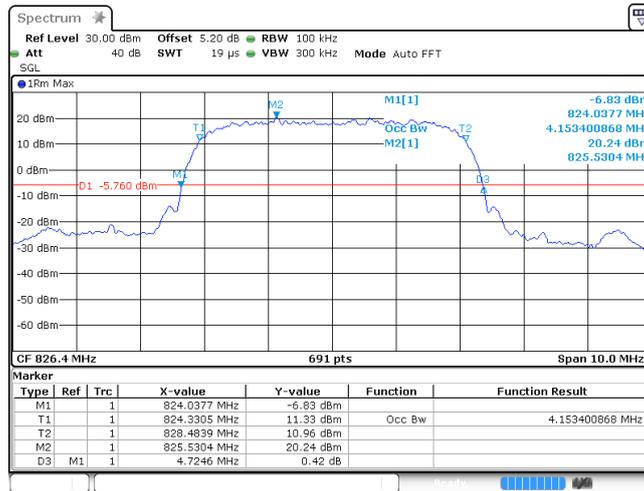


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Date: 17 OCT 2019 01:50:27

Band V_4233_QPSK

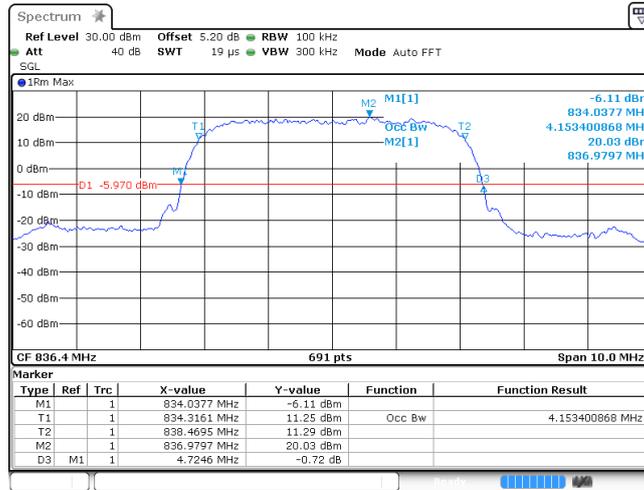


Date: 17 OCT 2019 02:52:19

Band V_4132_16QAM

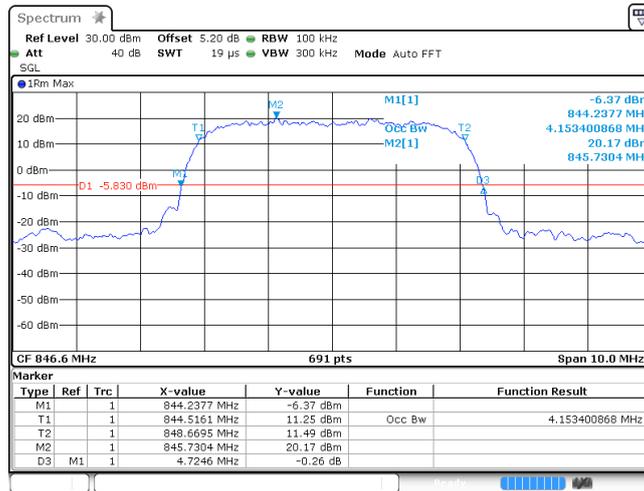


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Date: 17 OCT 2019 02:52:43

Band V_4182_16QAM



Date: 17 OCT 2019 02:53:08

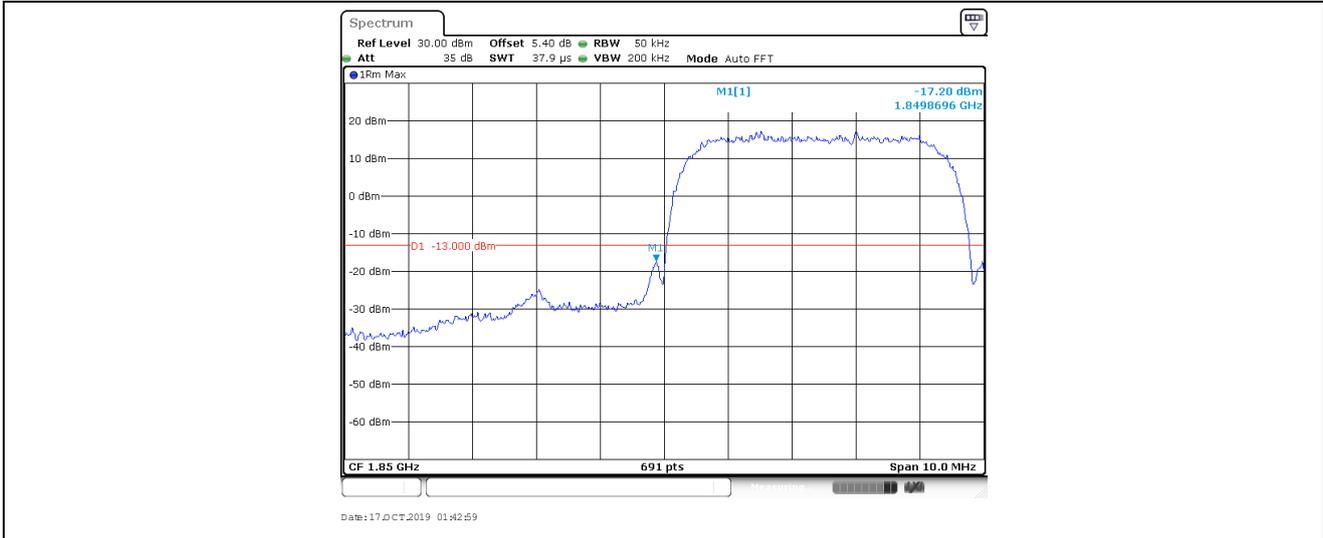
Band V_4233_16QAM



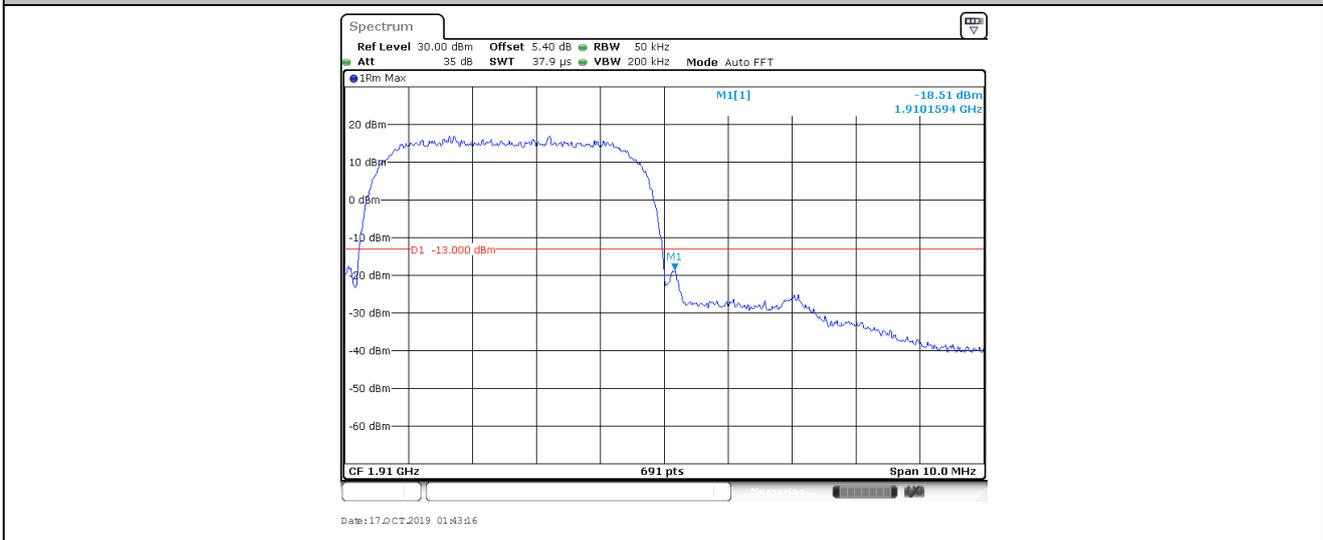
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5. Band Edge Compliance

5.1. Test Plots



Band II_9262_QPSK

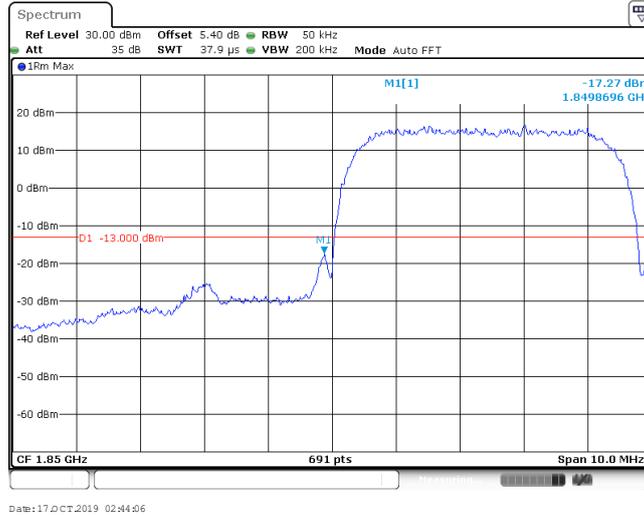


Band II_9538_QPSK

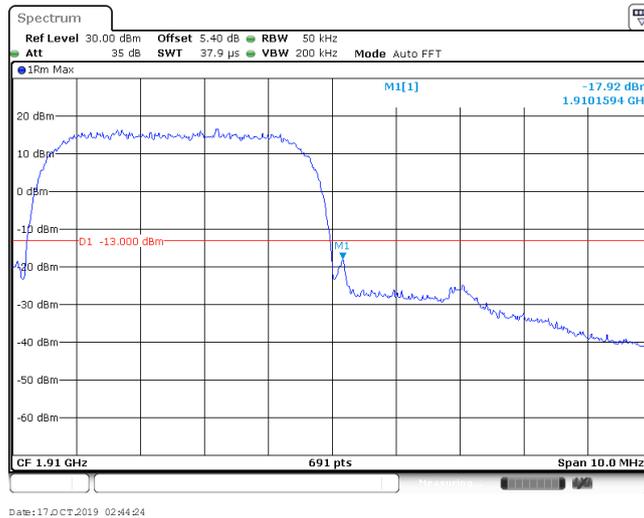


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Band II_9262_16QAM

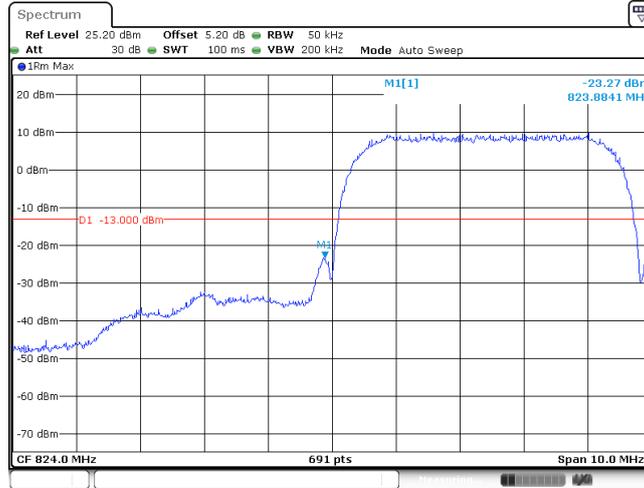


Band II_9538_16QAM



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Date: 17 OCT 2019 01:50:39

Band V_4132_QPSK

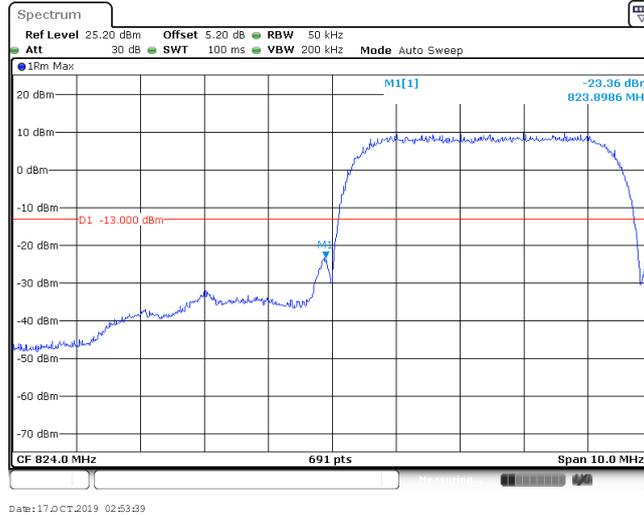


Date: 17 OCT 2019 01:50:56

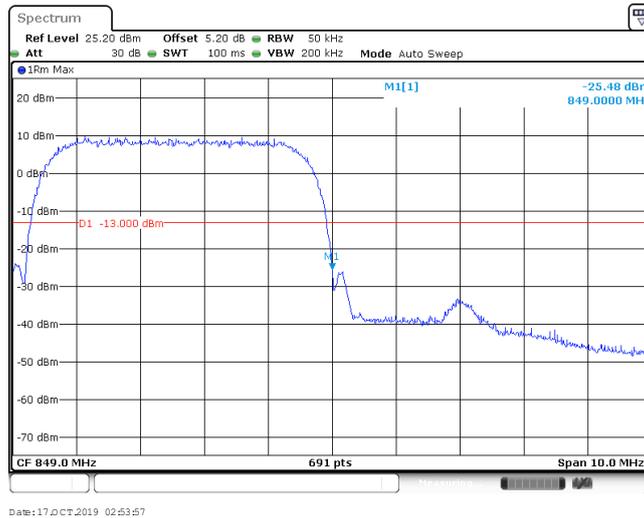
Band V_4233_QPSK



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Band V_4132_16QAM



Band V_4233_16QAM



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6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

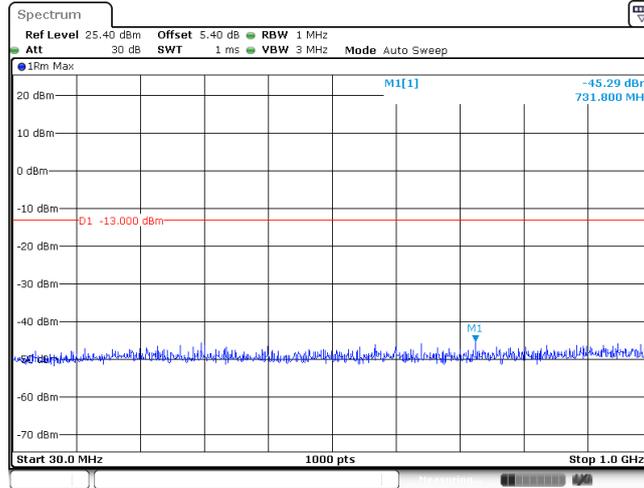
Remark2: only the worst case data displayed in this report.

6.1. Test Plots for QPSK



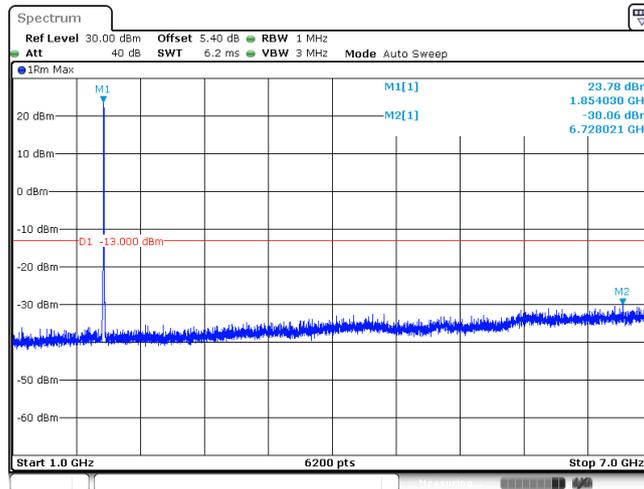
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Date: 17 OCT 2019 01:44:28

Band II_9262

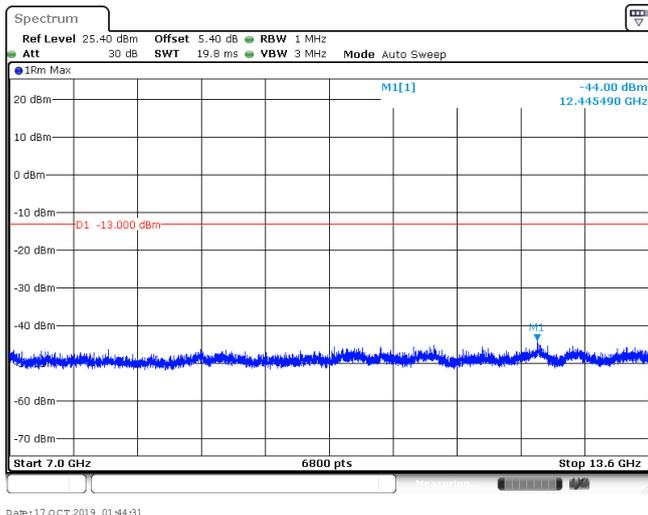


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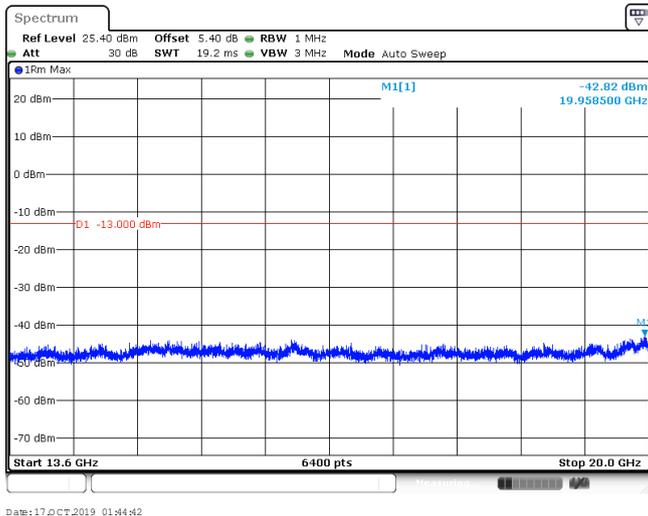


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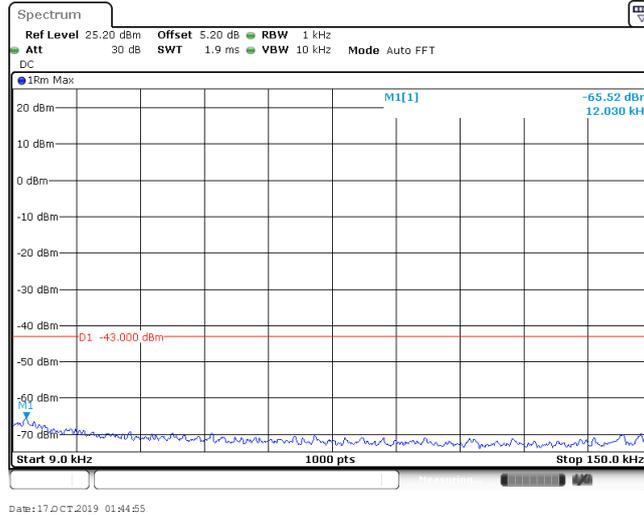


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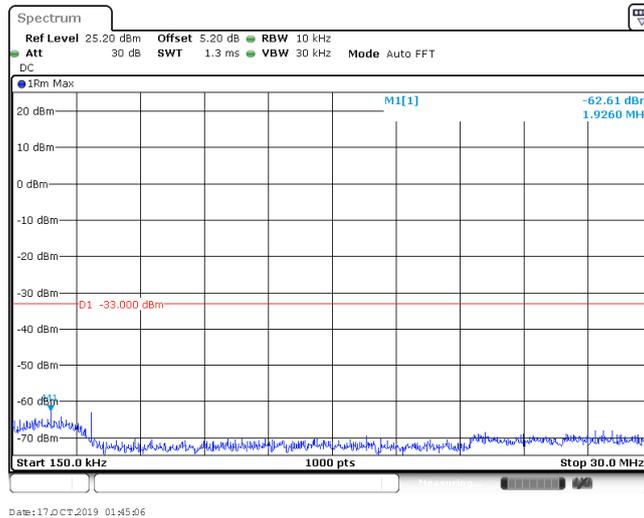
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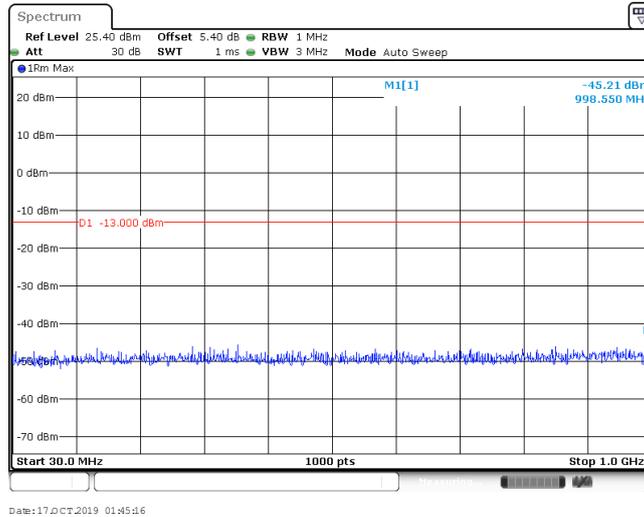
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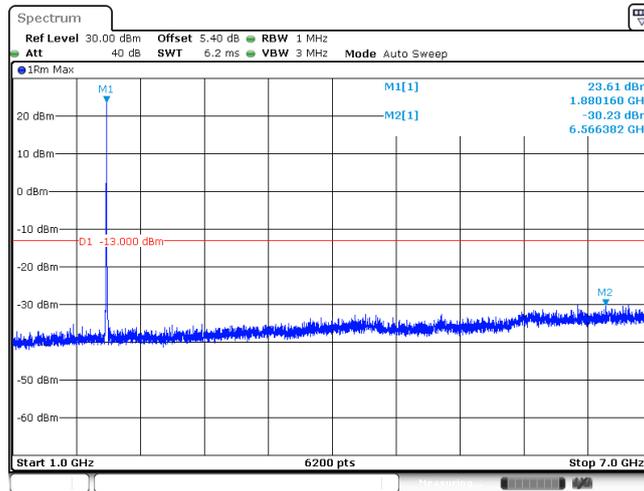


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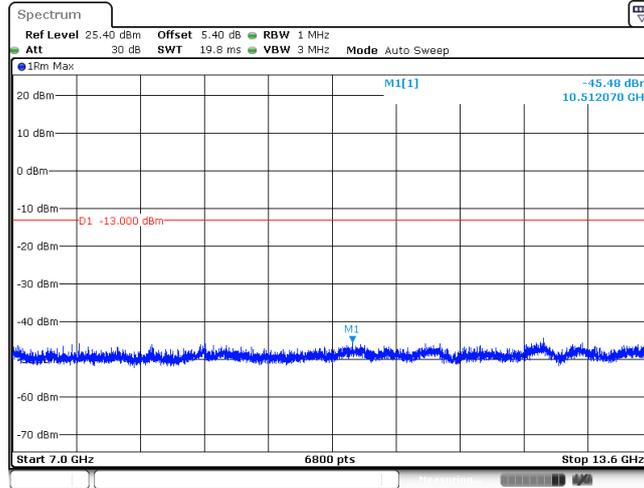


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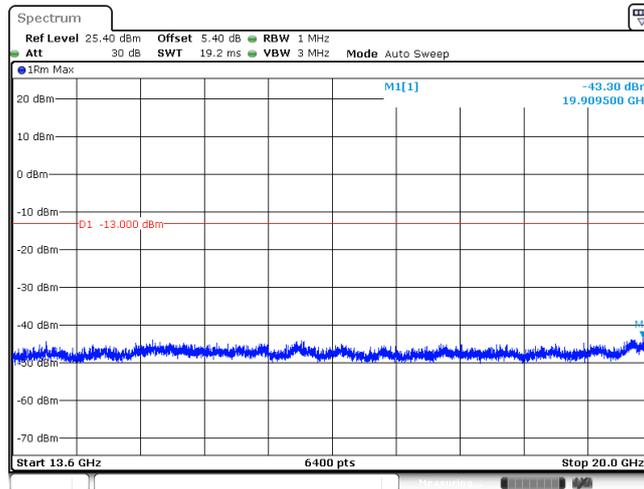


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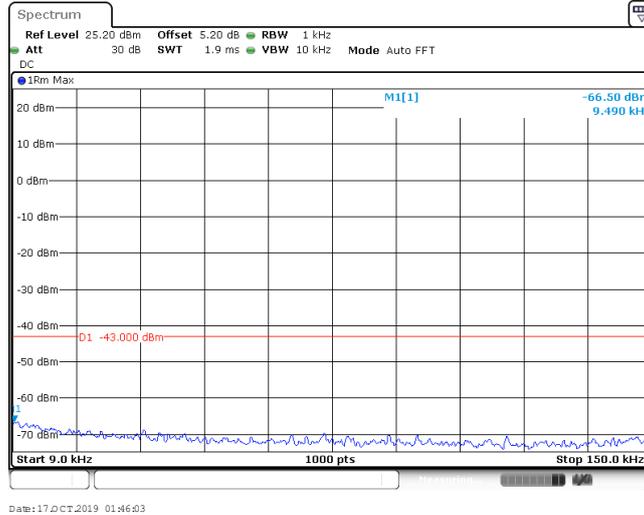


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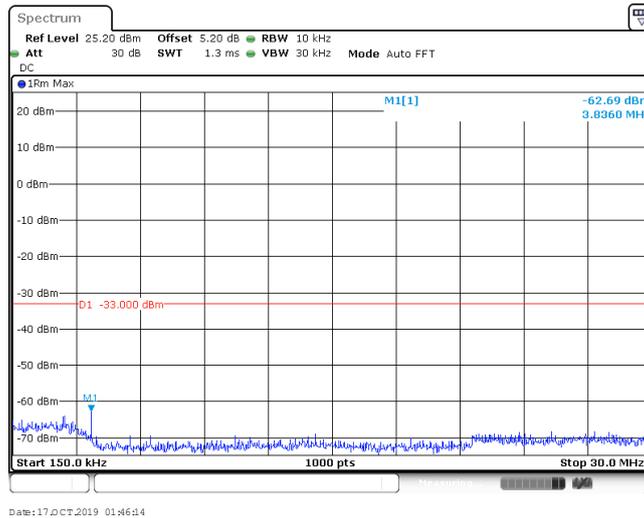
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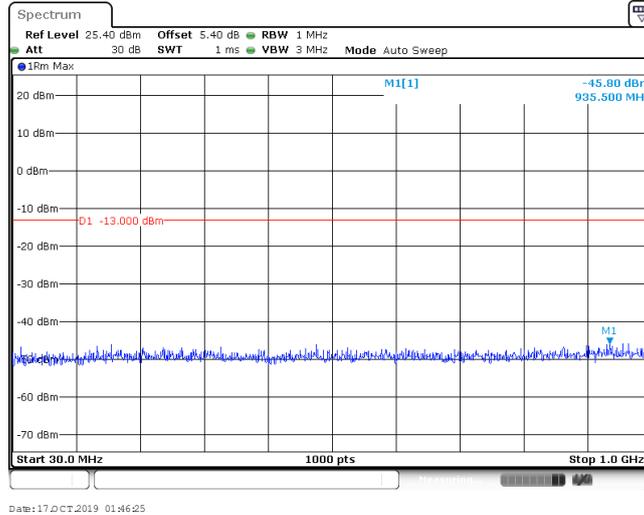
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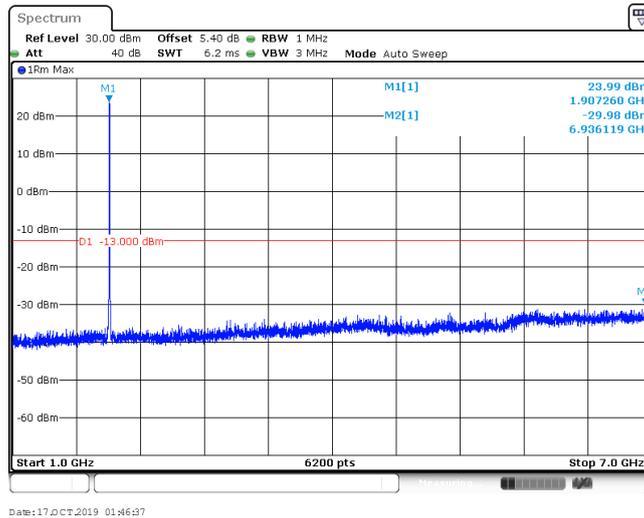
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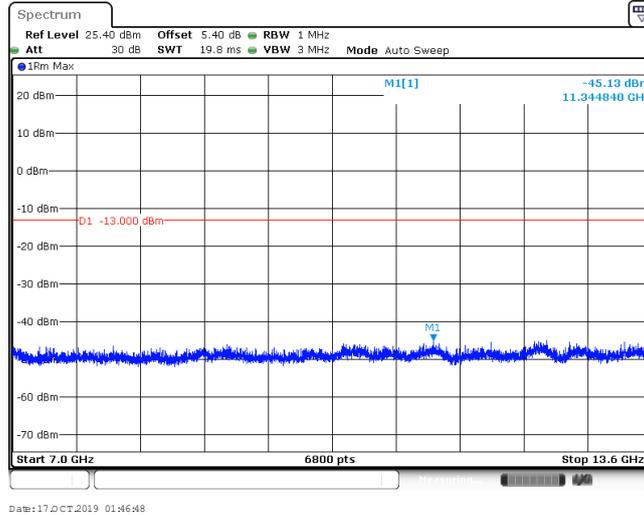
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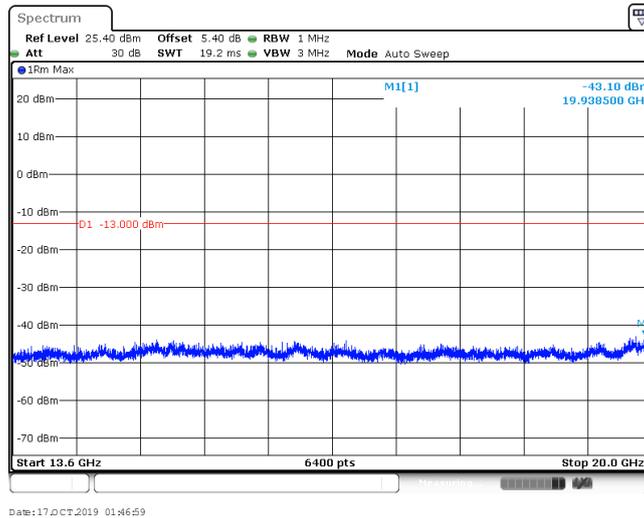
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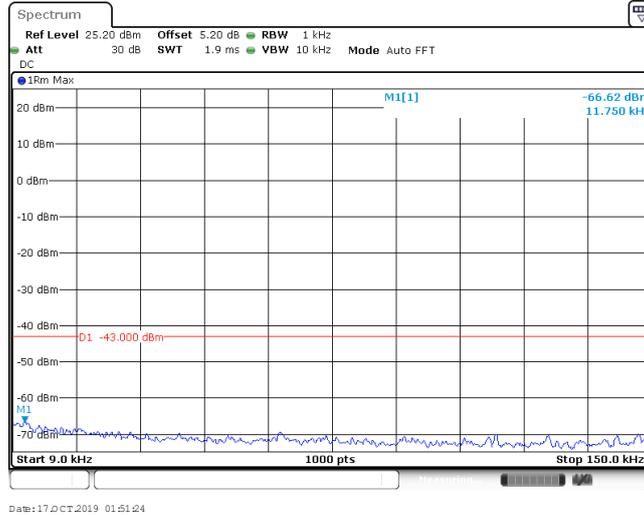


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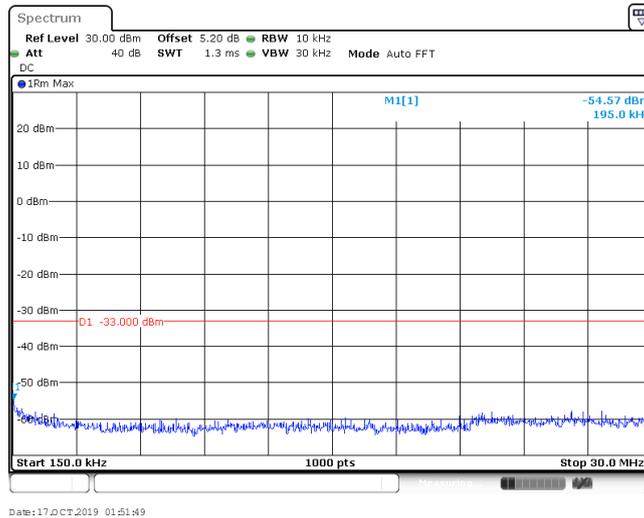


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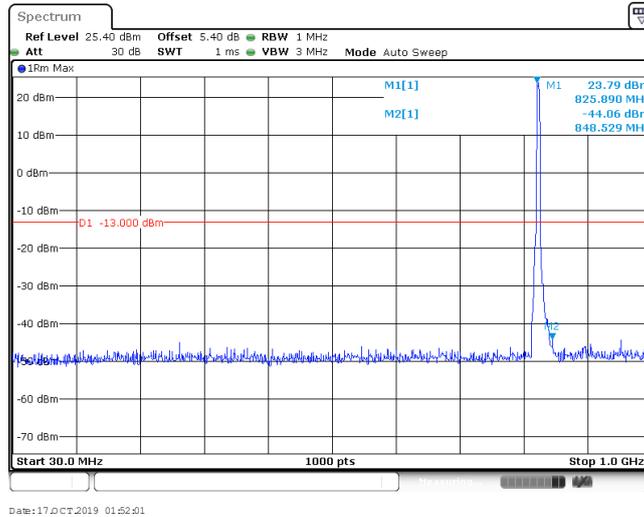
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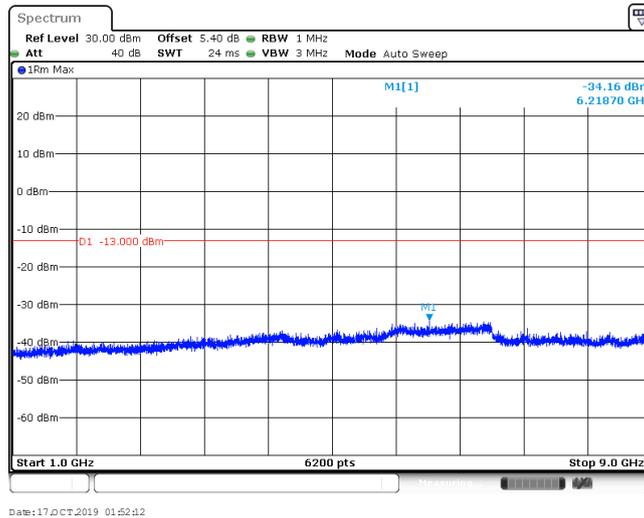
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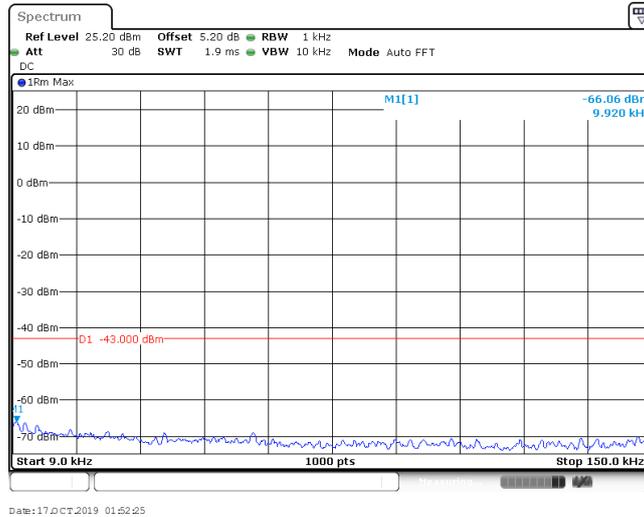


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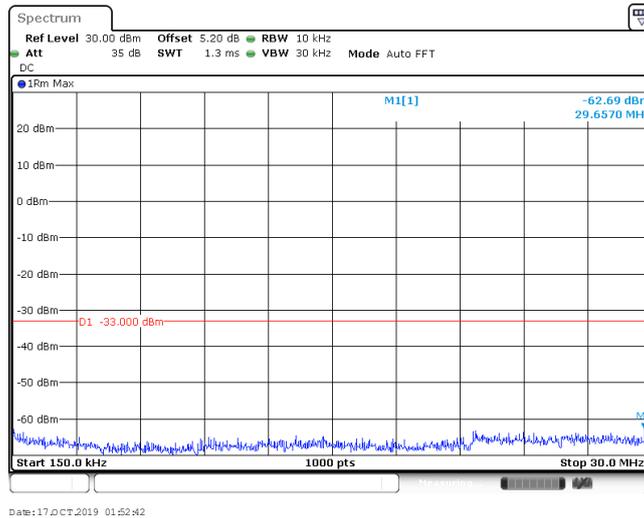
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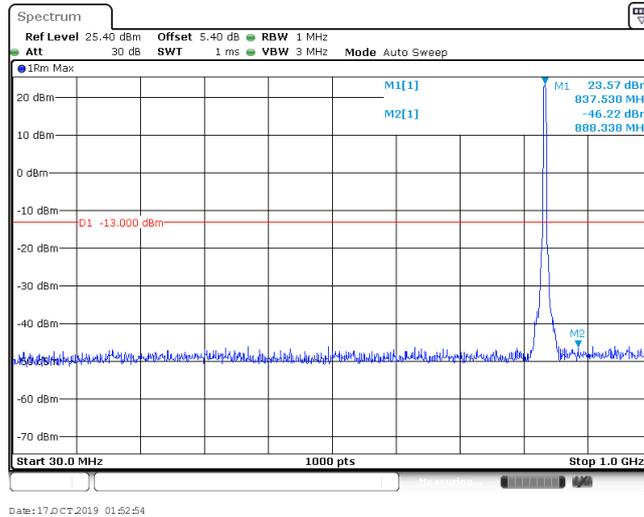


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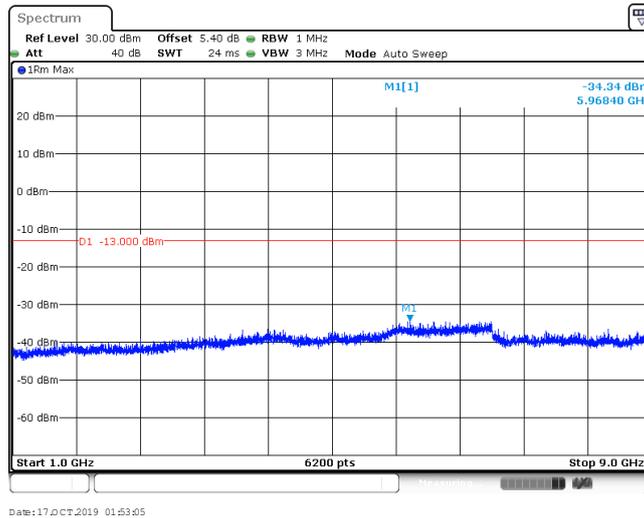


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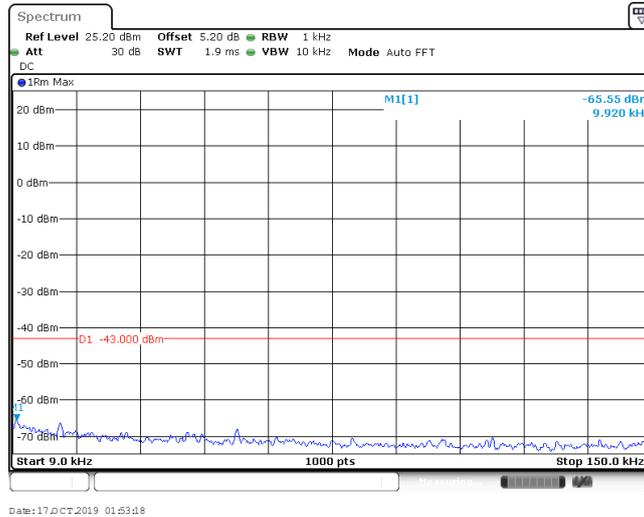


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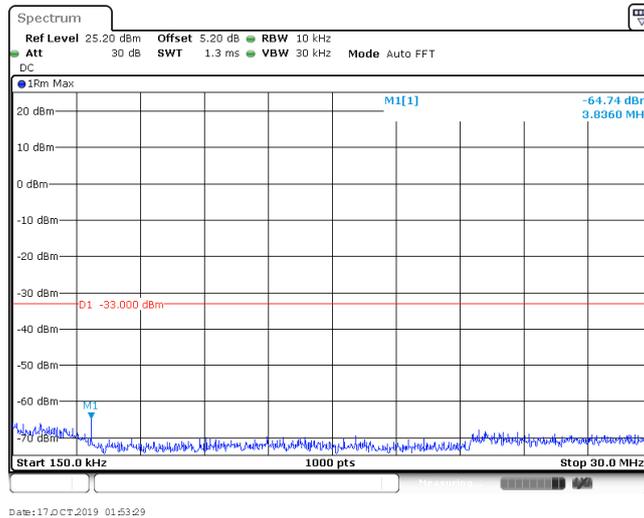
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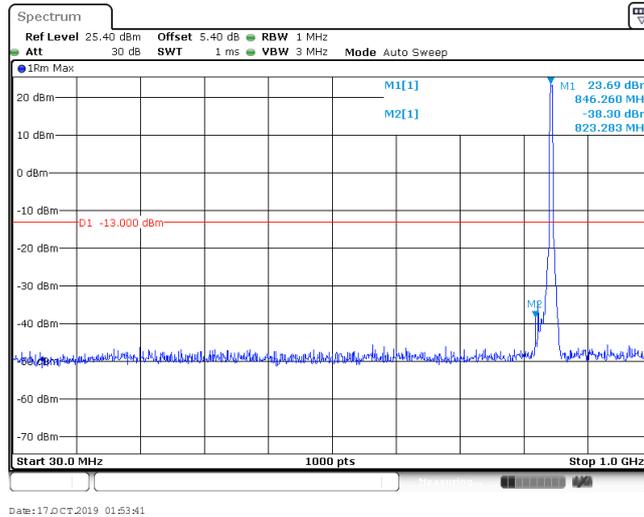
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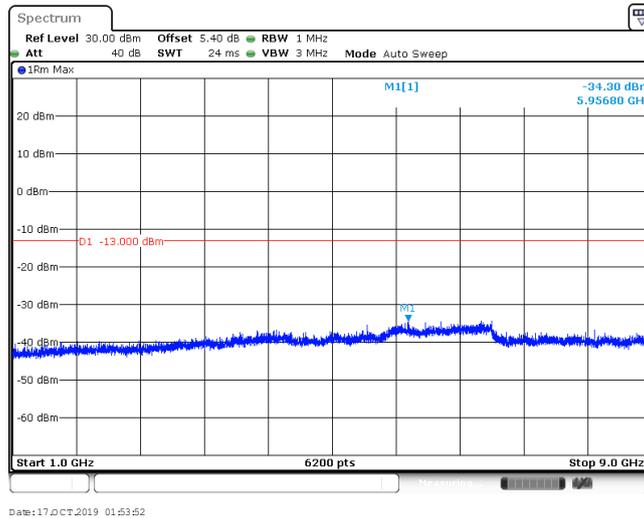
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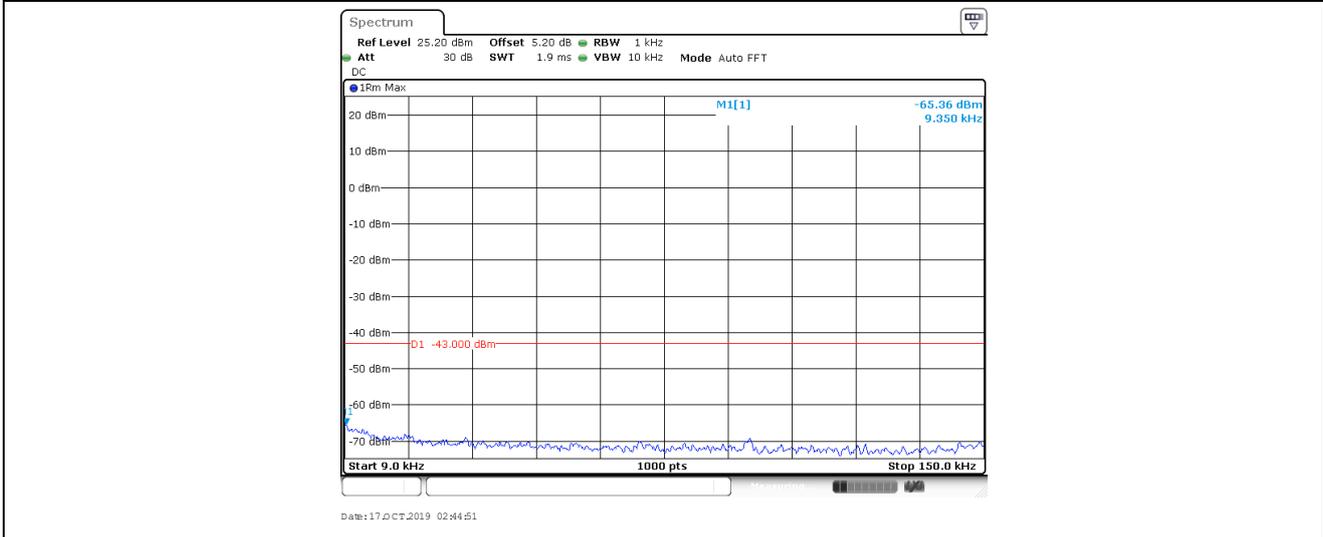
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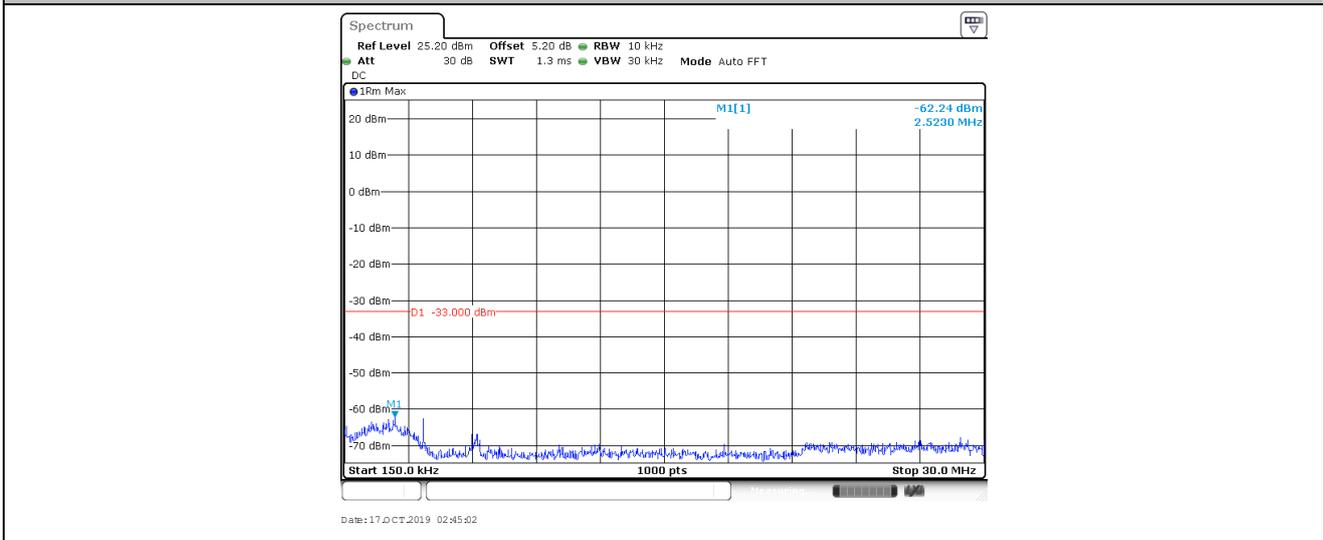
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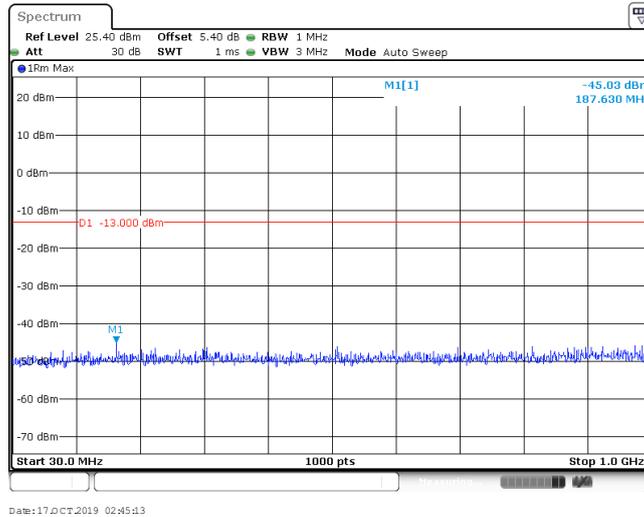
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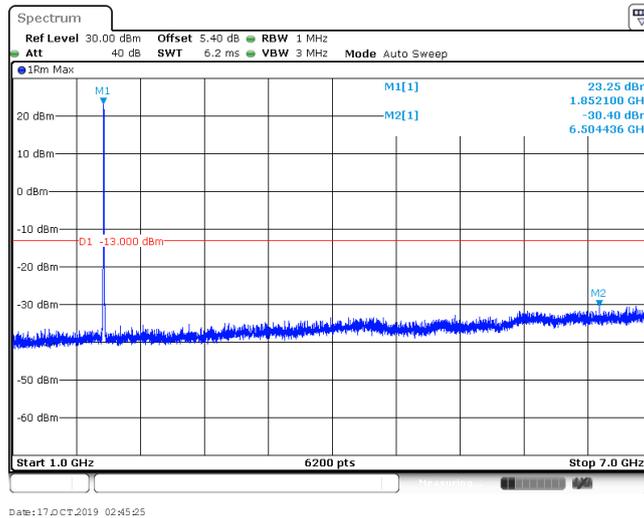
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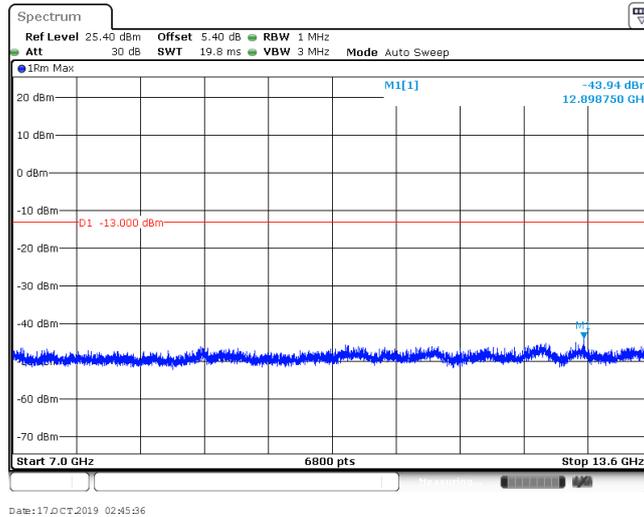
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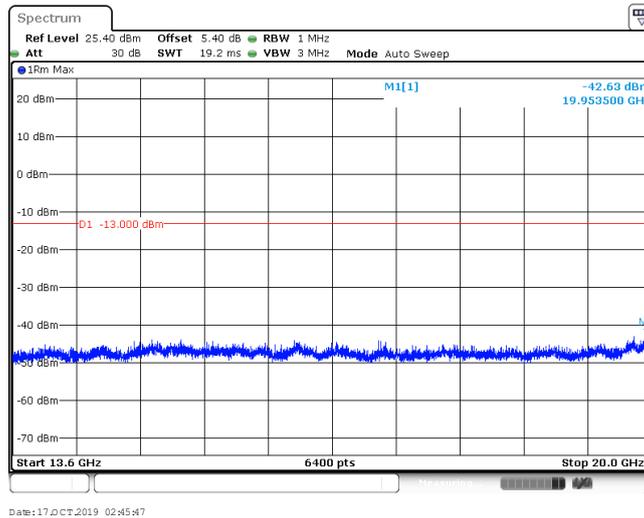
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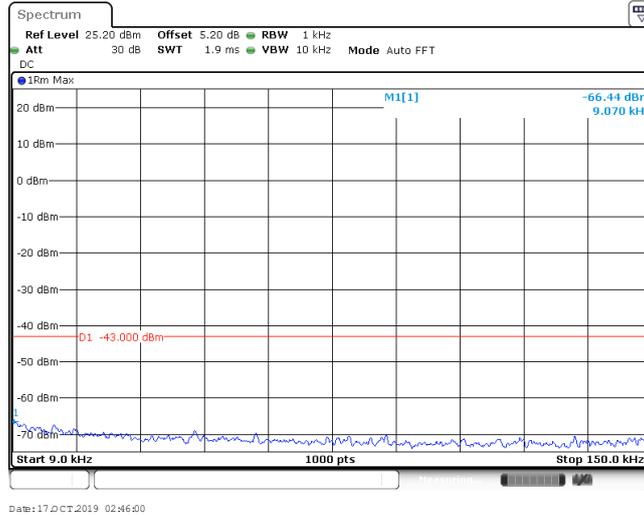
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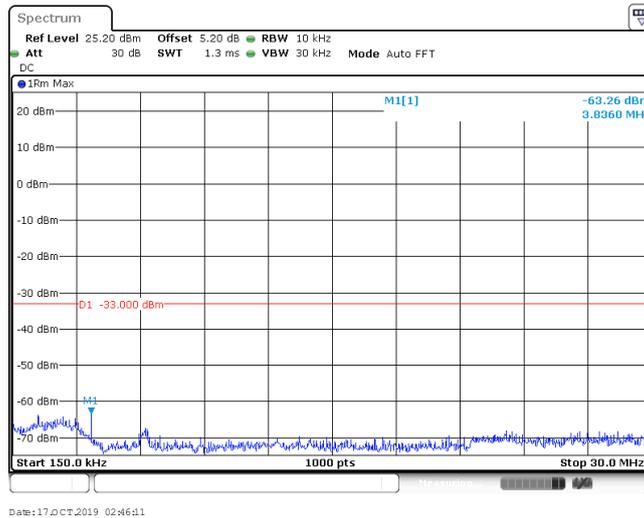
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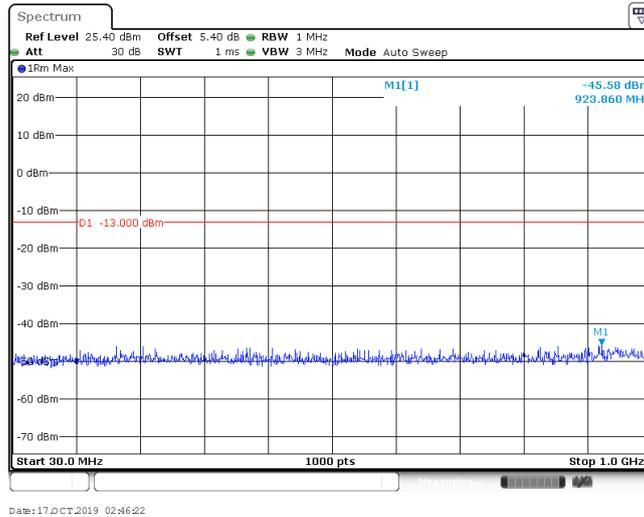


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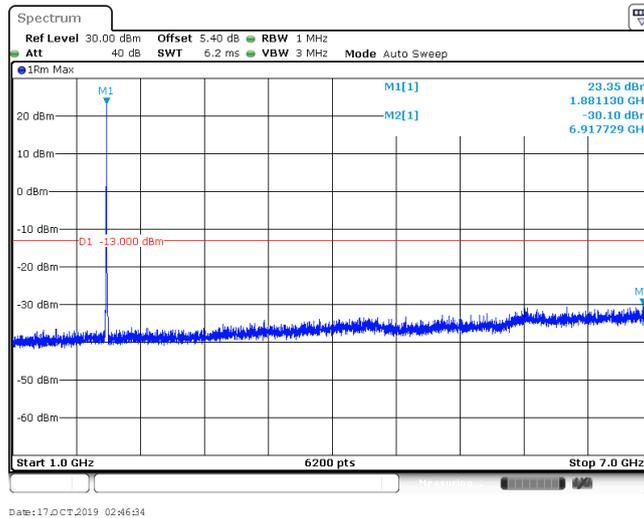


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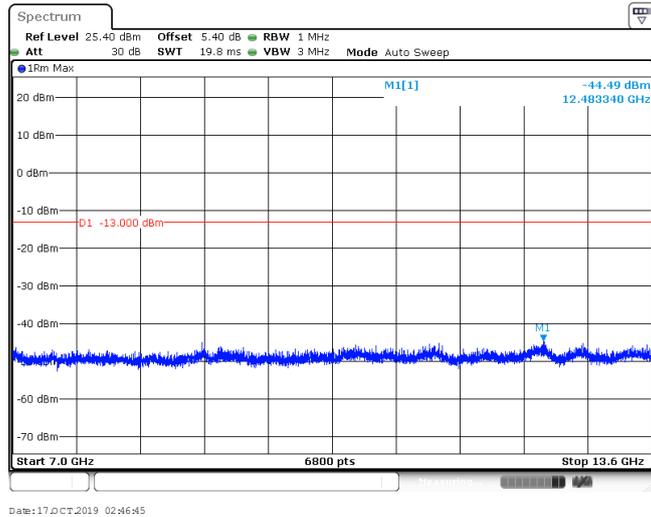
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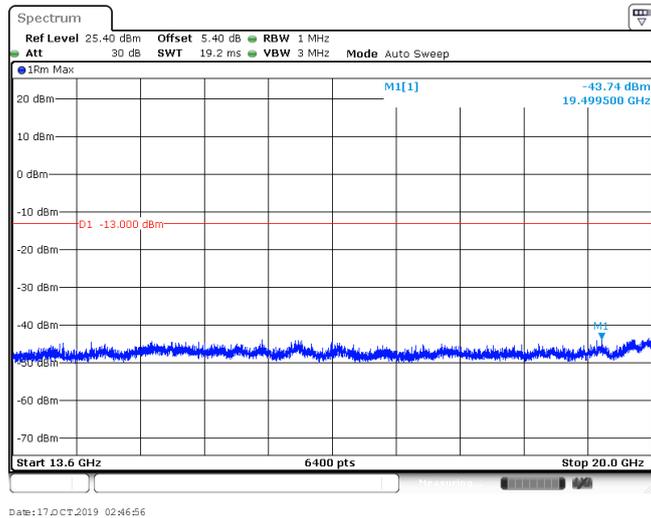
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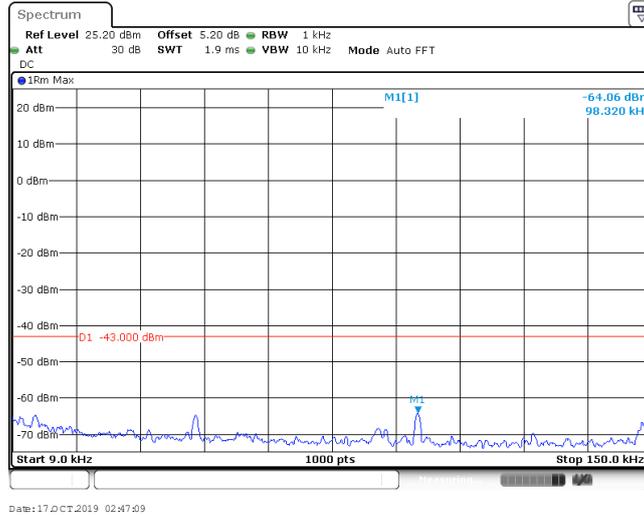
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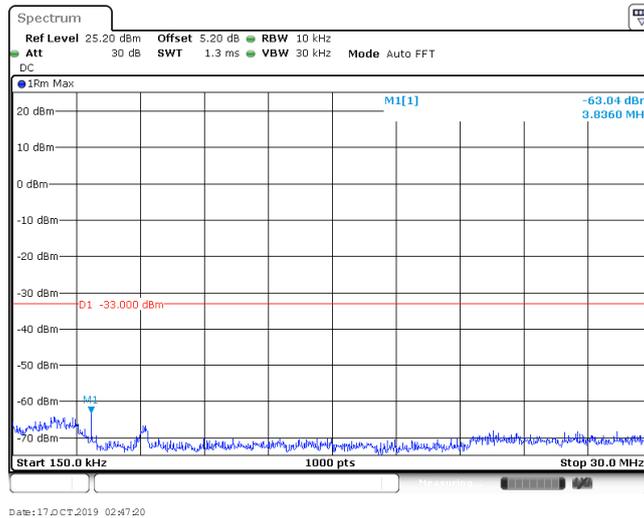
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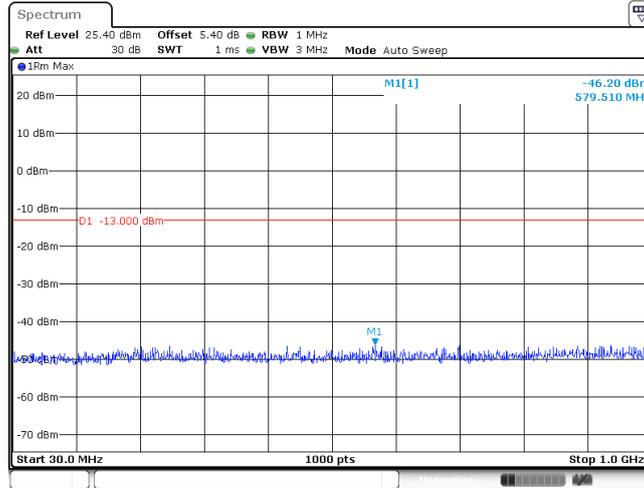
Band II_9538



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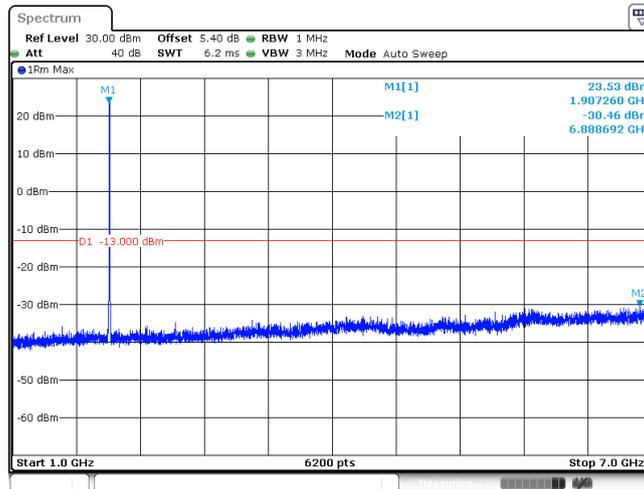


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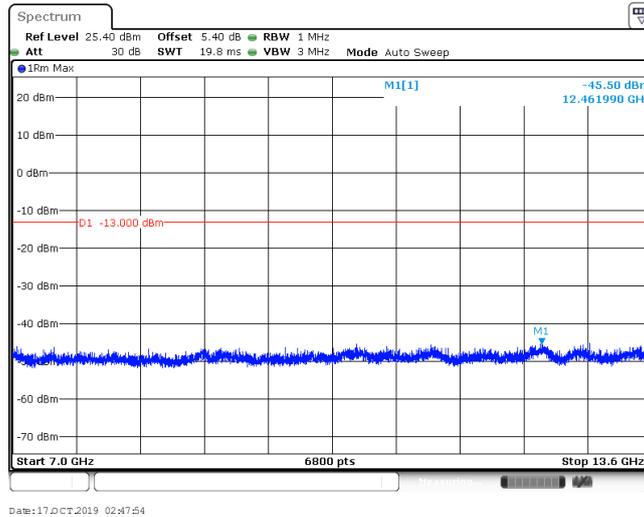


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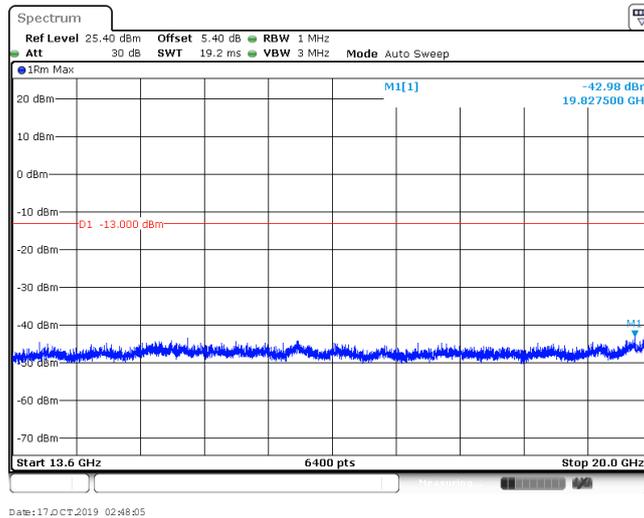
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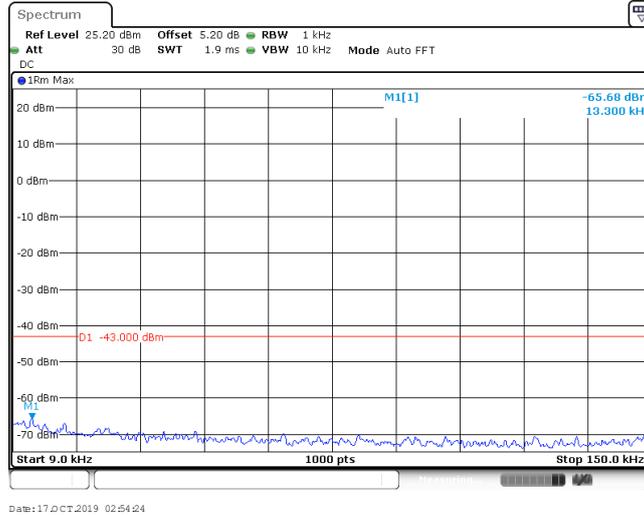


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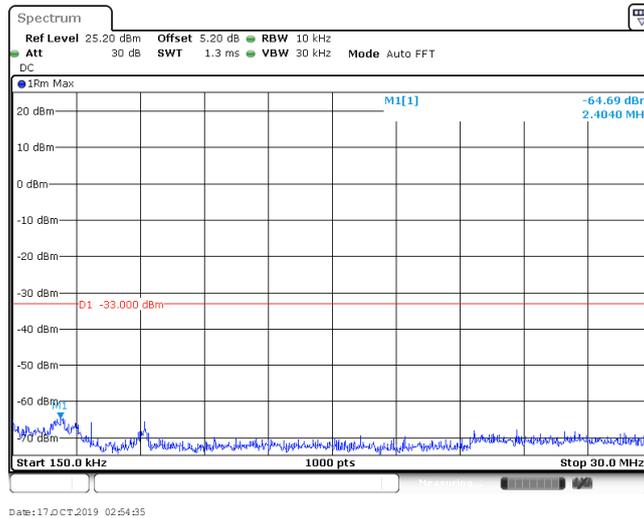


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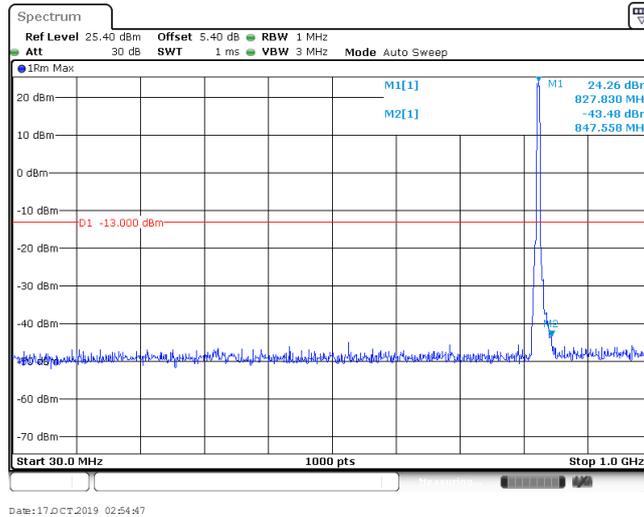
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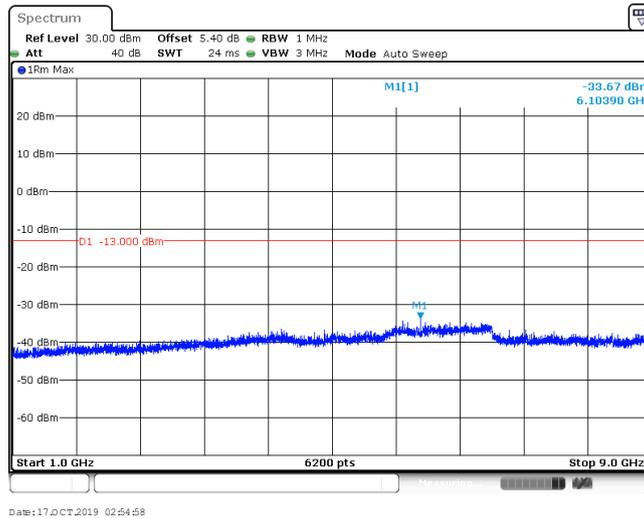
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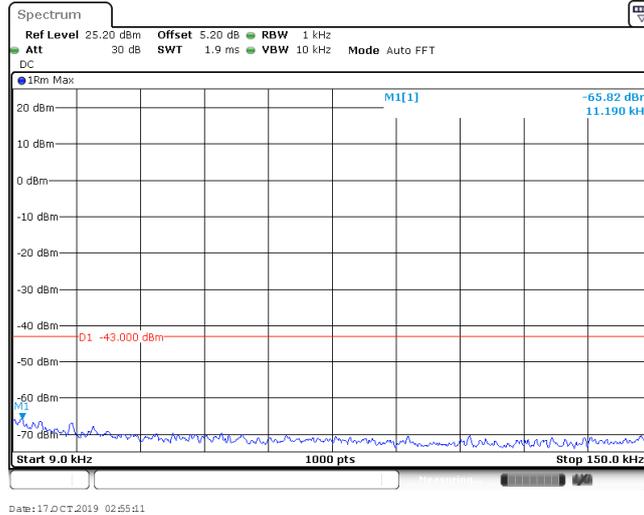


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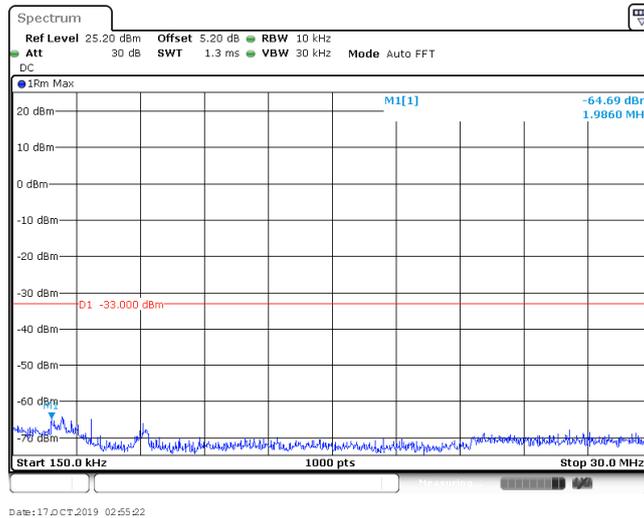


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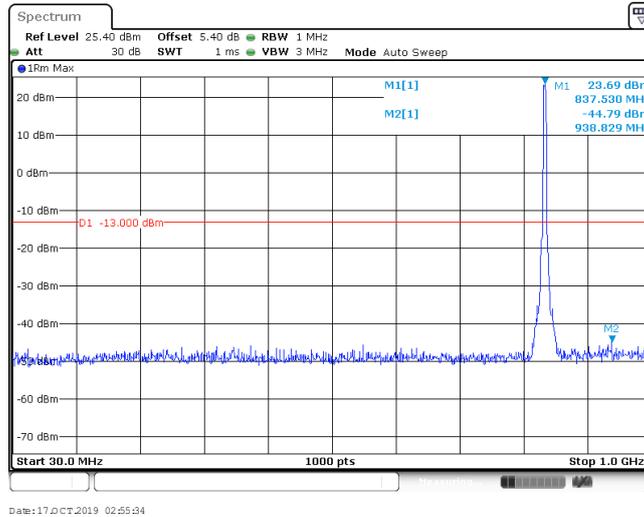


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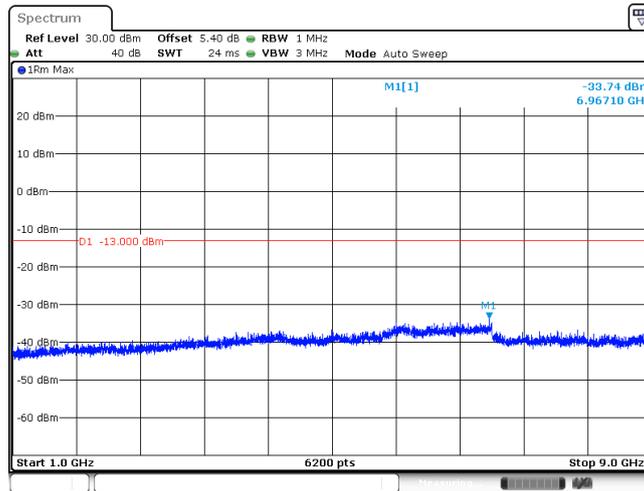
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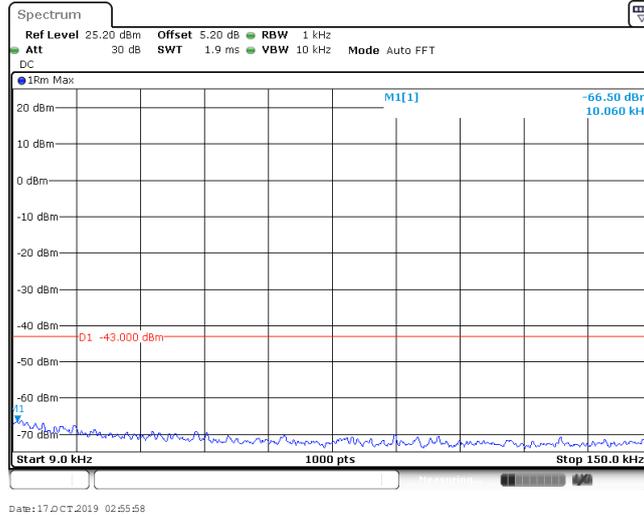


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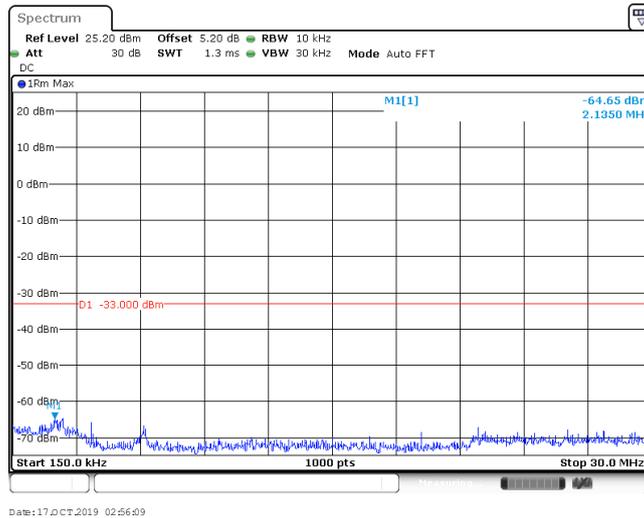
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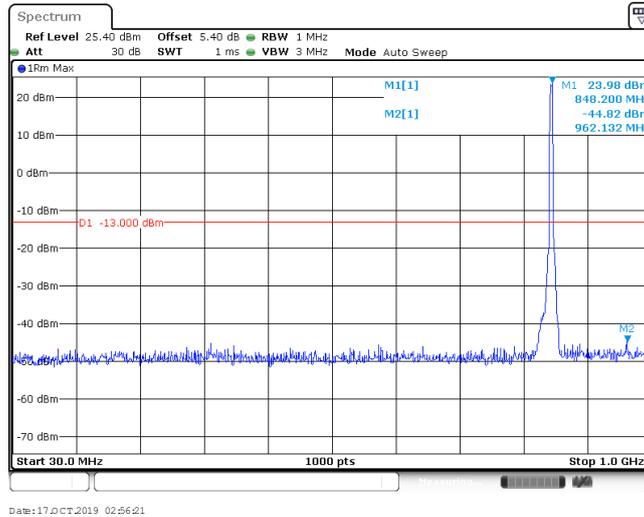


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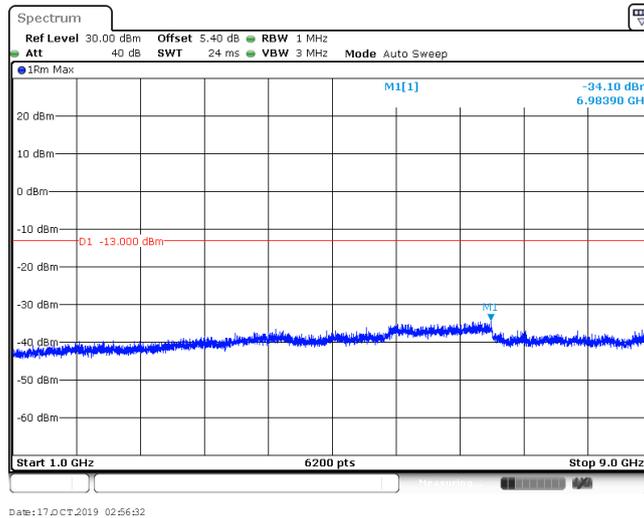


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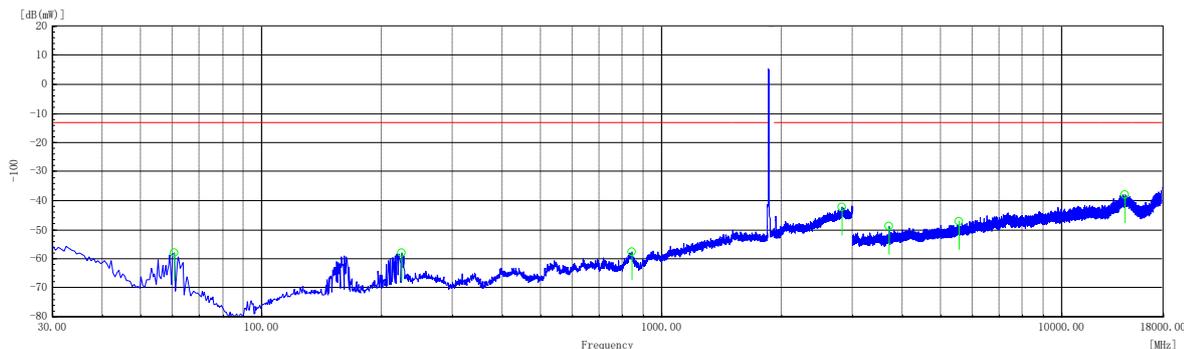


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7. Field Strength of Spurious Radiation

7.1. WCDMA Band II L channel (horizontal)



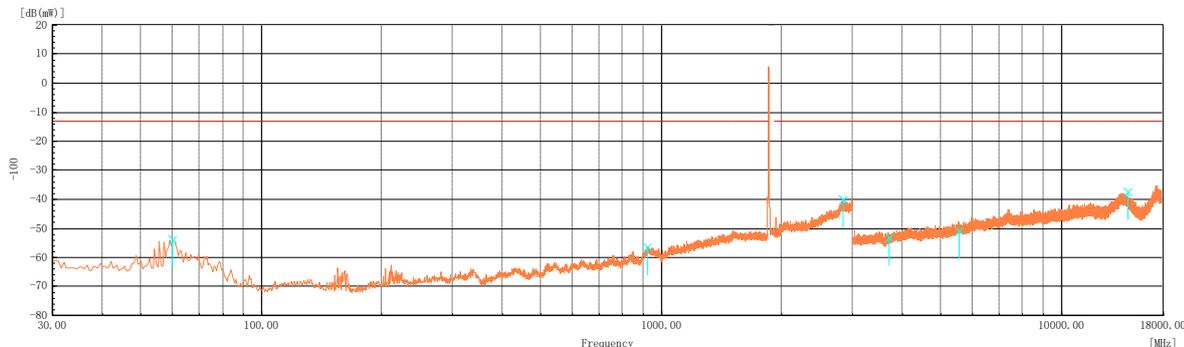
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60.5	H	37.2	-58.1	-13	45.1	125	316
223.5	H	37.3	-58	-13	45	110	91.7
842	H	37.7	-57.6	-13	44.6	141	316
2824.5	H	52.9	-42.4	-13	29.4	131	225.3
3702.5	H	46.4	-48.9	-13	35.9	135	135.4
5554	H	48.0	-47.3	-13	34.3	151	180
14463.5	H	57.2	-38.1	-13	25.1	124	45.6



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7.2. WCDMA Band II L channel (vertical)



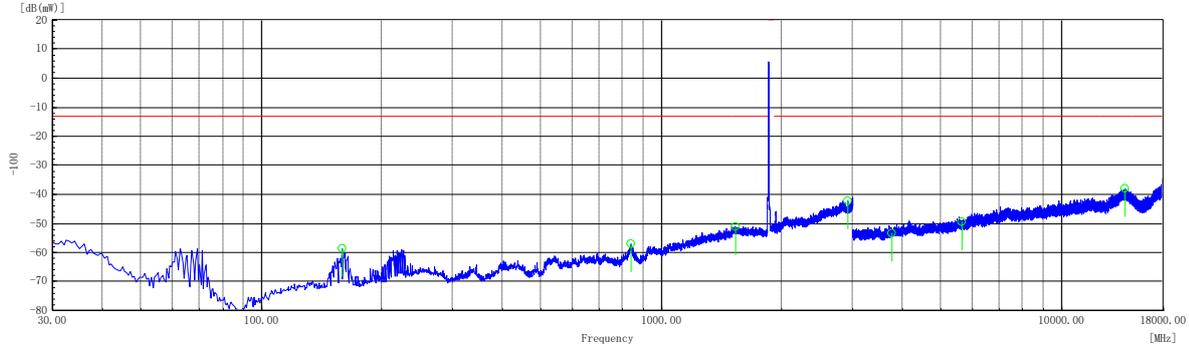
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60	V	41.6	-53.7	-13	40.7	159	269.9
920.5	V	38.9	-56.4	-13	43.4	120	44.8
2849	V	55.2	-40.1	-13	27.1	110	89.7
3705	V	42.0	-53.3	-13	40.3	101	224.9
5557	V	44.4	-50.9	-13	37.9	112	0.3
14672.5	V	58.1	-37.2	-13	24.2	127	89.7



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7.3. WCDMA Band II M channel (horizontal)



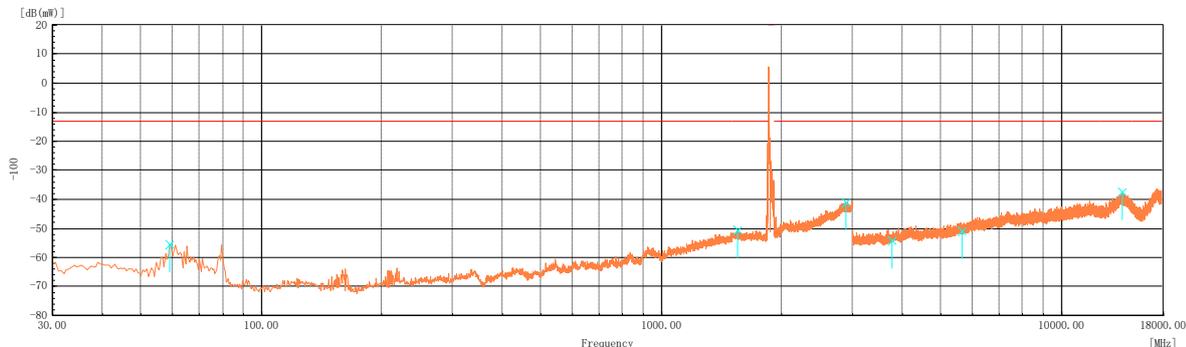
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
159	H	36.6	-58.7	-13	45.7	132	0.1
841	H	38.2	-57.1	-13	44.1	145	91.4
1534	H	44.1	-51.2	-13	38.2	124	135.5
2917	H	53.0	-42.3	-13	29.3	132	225.7
3760	H	41.7	-53.6	-13	40.6	105	270.7
5640	H	45.8	-49.5	-13	36.5	147	45
14427.5	H	57.1	-38.2	-13	25.2	129	0.1



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7.4. WCDMA Band II M channel (vertical)



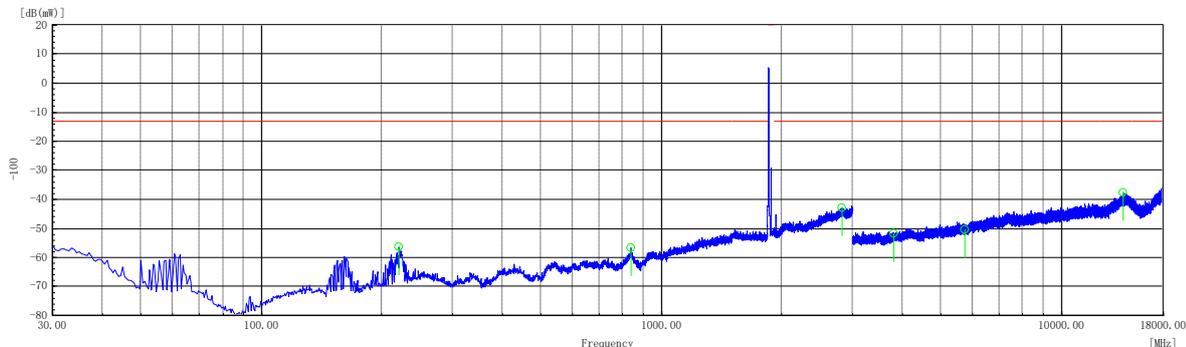
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59	V	39.9	-55.4	-13	42.4	138	89.4
1552	V	44.8	-50.5	-13	37.5	172	89.4
2885	V	54.2	-41.1	-13	28.1	135	179.5
3760	V	41.2	-54.1	-13	41.1	180	315.2
5640	V	44.6	-50.7	-13	37.7	140	135
14164.5	V	57.8	-37.5	-13	24.5	151	269.9



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7.5. WCDMA Band II H channel (horizontal)



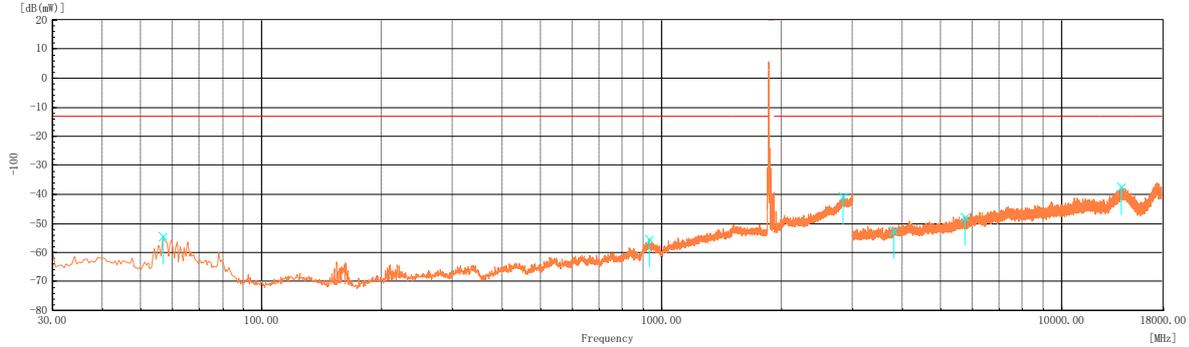
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
221	H	38.8	-56.5	-13	43.5	157	135.4
838.5	H	38.5	-56.8	-13	43.8	161	92.1
2826	H	52.5	-42.8	-13	29.8	131	45.1
3815.5	H	43.5	-51.8	-13	38.8	152	225.7
5723	H	44.9	-50.4	-13	37.4	175	270.3
14235	H	57.7	-37.6	-13	24.6	162	315.3



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7.6. WCDMA Band II H channel (vertical)



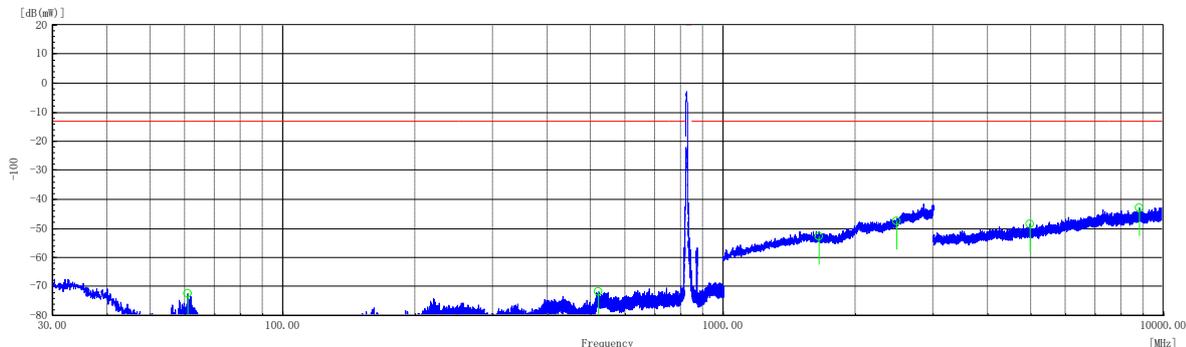
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
56.5	V	40.8	-54.5	-13	41.5	105	179.2
929.5	V	39.9	-55.4	-13	42.4	153	359.9
2849	V	54.6	-40.7	-13	27.7	175	134.3
3815	V	42.8	-52.5	-13	39.5	124	44.9
5723	V	47.6	-47.7	-13	34.7	149	225
14153	V	58.0	-37.3	-13	24.3	162	44.9



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7.7. WCDMA Band V L channel (horizontal)



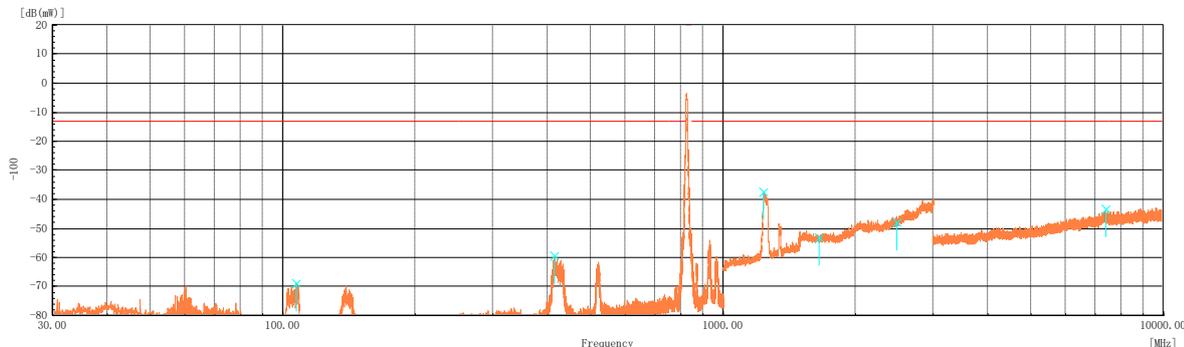
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60.95	H	22.9	-72.4	-13	59.4	129	270
519.75	H	23.7	-71.6	-13	58.6	107	45.3
1652.5	H	42.5	-52.8	-13	39.8	158	315.8
2479.5	H	47.6	-47.7	-13	34.7	150	225
4979.5	H	46.9	-48.4	-13	35.4	171	225
8819.5	H	52.2	-43.1	-13	30.1	176	315.8



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7.8. WCDMA Band V L channel (vertical)



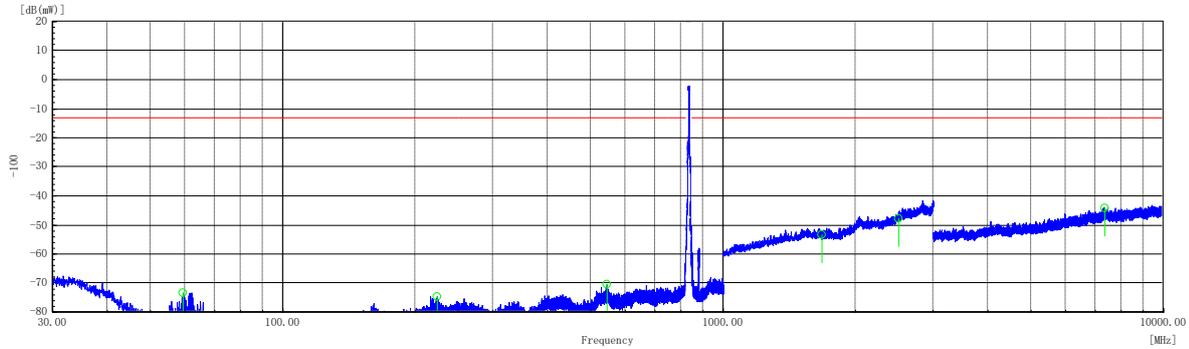
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
107.45	V	26.5	-68.8	-13	55.8	160	0.1
414.6	V	35.8	-59.5	-13	46.5	120	0.1
1233	V	57.8	-37.5	-13	24.5	160	0.1
1653	V	42.1	-53.2	-13	40.2	164	179.8
2479	V	47.4	-47.9	-13	34.9	111	269.7
7387.501	V	51.9	-43.4	-13	30.4	139	90



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7.9. WCDMA Band V M channel (horizontal)



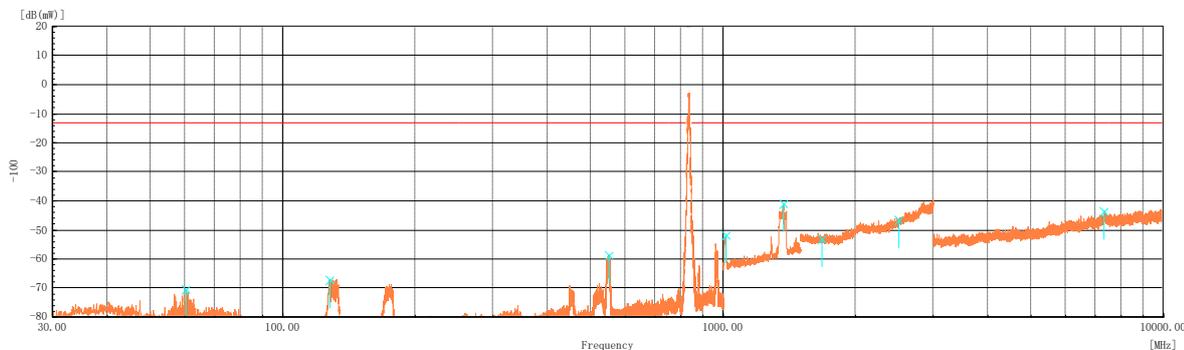
Frequency [MHz]	Pol	Level [dB μ V/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.45	H	22.0	-73.3	-13	60.3	102	91.9
223.8	H	20.7	-74.6	-13	61.6	156	135.2
545.75	H	24.8	-70.5	-13	57.5	159	270.4
1673	H	41.7	-53.6	-13	40.6	167	270.4
2509	H	47.4	-47.9	-13	34.9	151	180.2
7346.501	H	51.1	-44.2	-13	31.2	137	180.2



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7.10. WCDMA Band V M channel (vertical)



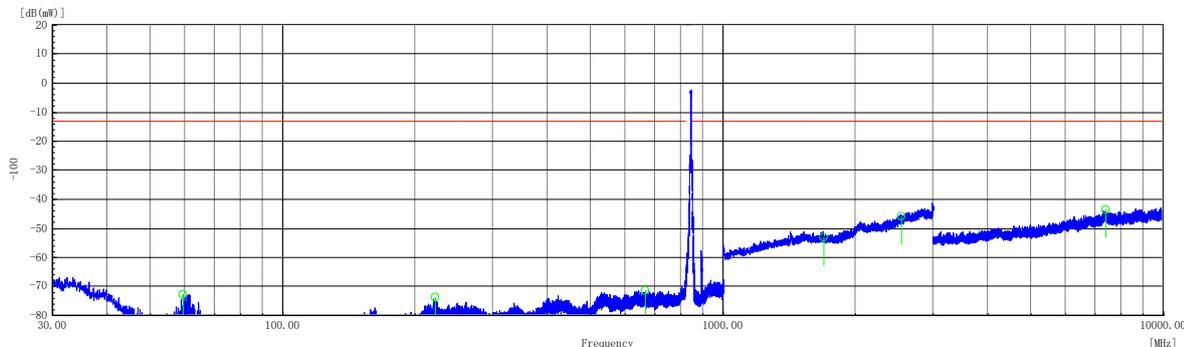
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
60.3	V	24.8	-70.5	-13	57.5	161	89.8
128.05	V	28.2	-67.1	-13	54.1	145	270
549.65	V	36.5	-58.8	-13	45.8	146	225
1014.5	V	43.5	-51.8	-13	38.8	156	0
1368.5	V	54.3	-41	-13	28	153	315.3
1673	V	42.3	-53	-13	40	179	0
2509.5	V	48.9	-46.4	-13	33.4	176	270
7318.501	V	51.6	-43.7	-13	30.7	162	315.3



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7.11. WCDMA Band V H channel (horizontal)



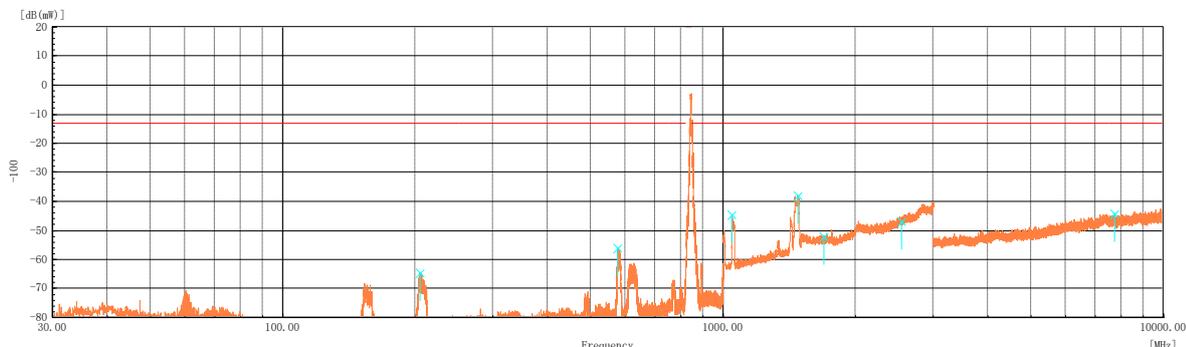
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.3	H	22.5	-72.8	-13	59.8	161	91.8
222.45	H	21.4	-73.9	-13	60.9	136	135.1
667.05	H	23.9	-71.4	-13	58.4	136	135.1
1693	H	42.1	-53.2	-13	40.2	164	0
2540	H	49.3	-46	-13	33	134	180.1
7406.001	H	51.6	-43.7	-13	30.7	147	0



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7.12. WCDMA Band V H channel (vertical)



Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
205.35	V	30.6	-64.7	-13	51.7	137	269.7
575.5	V	39.1	-56.2	-13	43.2	157	224.3
1048.5	V	50.6	-44.7	-13	31.7	170	269.7
1480	V	57.3	-38	-13	25	161	0.2
1693	V	43.1	-52.2	-13	39.2	154	224.3
2540	V	48.6	-46.7	-13	33.7	153	89.4
7733.001	V	51.0	-44.3	-13	31.3	154	0.2

Note:

- 1) The disturbance above 18GHz and below 30MHz was very low at WCDMA Band II, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 2) WCDMA Band V working frequency lower than 1GHz, only test the tenth harmonic of the highest fundamental frequency. And the disturbance below 30MHz was very low, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 3) We have tested all modulation and Bandwidth, but only the worst case data presented in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Channel	Modulation	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	QPSK	VL	TN	-6.03	-0.003255	±2.5	PASS
Band II	9262	QPSK	VN	TN	-3.28	-0.001768	±2.5	PASS
Band II	9262	QPSK	VH	TN	-5.61	-0.003031	±2.5	PASS
Band II	9400	QPSK	VL	TN	-7.37	-0.003919	±2.5	PASS
Band II	9400	QPSK	VN	TN	-6.54	-0.003481	±2.5	PASS
Band II	9400	QPSK	VH	TN	-5.66	-0.003013	±2.5	PASS
Band II	9538	QPSK	VL	TN	-8.70	-0.004559	±2.5	PASS
Band II	9538	QPSK	VN	TN	-4.52	-0.002370	±2.5	PASS
Band II	9538	QPSK	VH	TN	-9.75	-0.005111	±2.5	PASS
Band II	9262	16QAM	VL	TN	-15.13	-0.008170	±2.5	PASS
Band II	9262	16QAM	VN	TN	-28.32	-0.015287	±2.5	PASS
Band II	9262	16QAM	VH	TN	-8.48	-0.004576	±2.5	PASS
Band II	9400	16QAM	VL	TN	-6.94	-0.003690	±2.5	PASS
Band II	9400	16QAM	VN	TN	-3.39	-0.001803	±2.5	PASS
Band II	9400	16QAM	VH	TN	-9.82	-0.005224	±2.5	PASS
Band II	9538	16QAM	VL	TN	-0.67	-0.000349	±2.5	PASS
Band II	9538	16QAM	VN	TN	-4.92	-0.002580	±2.5	PASS
Band II	9538	16QAM	VH	TN	-6.82	-0.003577	±2.5	PASS
Band V	4132	QPSK	VL	TN	-3.72	-0.004501	±2.5	PASS
Band V	4132	QPSK	VN	TN	-7.80	-0.009434	±2.5	PASS
Band V	4132	QPSK	VH	TN	-10.10	-0.012221	±2.5	PASS
Band V	4182	QPSK	VL	TN	-9.51	-0.011374	±2.5	PASS
Band V	4182	QPSK	VN	TN	-1.14	-0.001360	±2.5	PASS
Band V	4182	QPSK	VH	TN	-3.59	-0.004293	±2.5	PASS
Band V	4233	QPSK	VL	TN	-13.19	-0.015579	±2.5	PASS
Band V	4233	QPSK	VN	TN	-10.27	-0.012132	±2.5	PASS
Band V	4233	QPSK	VH	TN	-4.85	-0.005728	±2.5	PASS
Band V	4132	16QAM	VL	TN	-10.32	-0.012489	±2.5	PASS
Band V	4132	16QAM	VN	TN	-11.70	-0.014160	±2.5	PASS
Band V	4132	16QAM	VH	TN	-10.82	-0.013095	±2.5	PASS
Band V	4182	16QAM	VL	TN	-5.67	-0.006781	±2.5	PASS
Band V	4182	16QAM	VN	TN	-5.51	-0.006585	±2.5	PASS
Band V	4182	16QAM	VH	TN	-3.55	-0.004250	±2.5	PASS
Band V	4233	16QAM	VL	TN	-3.28	-0.003878	±2.5	PASS
Band V	4233	16QAM	VN	TN	-12.93	-0.015275	±2.5	PASS
Band V	4233	16QAM	VH	TN	-11.82	-0.013957	±2.5	PASS



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8.2. Frequency Vs Temperature

Band	Channel	Modulation	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	QPSK	VN	-30	-13.43	-0.007251	±2.5	PASS
Band II	9262	QPSK	VN	-20	-8.73	-0.004711	±2.5	PASS
Band II	9262	QPSK	VN	-10	-12.88	-0.006954	±2.5	PASS
Band II	9262	QPSK	VN	0	-3.28	-0.001772	±2.5	PASS
Band II	9262	QPSK	VN	10	-7.75	-0.004182	±2.5	PASS
Band II	9262	QPSK	VN	20	-8.80	-0.004749	±2.5	PASS
Band II	9262	QPSK	VN	30	-9.66	-0.005217	±2.5	PASS
Band II	9262	QPSK	VN	40	-5.85	-0.003158	±2.5	PASS
Band II	9262	QPSK	VN	50	-9.28	-0.005008	±2.5	PASS
Band II	9400	QPSK	VN	-30	-2.23	-0.001187	±2.5	PASS
Band II	9400	QPSK	VN	-20	-7.58	-0.004033	±2.5	PASS
Band II	9400	QPSK	VN	-10	-10.88	-0.005787	±2.5	PASS
Band II	9400	QPSK	VN	0	-7.47	-0.003972	±2.5	PASS
Band II	9400	QPSK	VN	10	-8.18	-0.004352	±2.5	PASS
Band II	9400	QPSK	VN	20	-5.89	-0.003135	±2.5	PASS
Band II	9400	QPSK	VN	30	-13.14	-0.006989	±2.5	PASS
Band II	9400	QPSK	VN	40	-25.58	-0.013609	±2.5	PASS
Band II	9400	QPSK	VN	50	-7.46	-0.003968	±2.5	PASS
Band II	9538	QPSK	VN	-30	-12.20	-0.006393	±2.5	PASS
Band II	9538	QPSK	VN	-20	-0.50	-0.000262	±2.5	PASS
Band II	9538	QPSK	VN	-10	-7.55	-0.003956	±2.5	PASS
Band II	9538	QPSK	VN	0	-9.02	-0.004728	±2.5	PASS
Band II	9538	QPSK	VN	10	-9.69	-0.005081	±2.5	PASS
Band II	9538	QPSK	VN	20	-3.29	-0.001725	±2.5	PASS
Band II	9538	QPSK	VN	30	-2.03	-0.001065	±2.5	PASS
Band II	9538	QPSK	VN	40	-10.25	-0.005373	±2.5	PASS
Band II	9538	QPSK	VN	50	-22.29	-0.011687	±2.5	PASS
Band II	9262	16QAM	VN	-30	-8.65	-0.004672	±2.5	PASS
Band II	9262	16QAM	VN	-20	-24.29	-0.013113	±2.5	PASS
Band II	9262	16QAM	VN	-10	-7.66	-0.004135	±2.5	PASS
Band II	9262	16QAM	VN	0	-10.01	-0.005406	±2.5	PASS
Band II	9262	16QAM	VN	10	-21.49	-0.011603	±2.5	PASS
Band II	9262	16QAM	VN	20	-9.73	-0.005255	±2.5	PASS
Band II	9262	16QAM	VN	30	-12.85	-0.006939	±2.5	PASS
Band II	9262	16QAM	VN	40	-8.54	-0.004610	±2.5	PASS
Band II	9262	16QAM	VN	50	-7.69	-0.004151	±2.5	PASS
Band II	9400	16QAM	VN	-30	-4.61	-0.002450	±2.5	PASS
Band II	9400	16QAM	VN	-20	-0.73	-0.000388	±2.5	PASS
Band II	9400	16QAM	VN	-10	-7.20	-0.003827	±2.5	PASS
Band II	9400	16QAM	VN	0	-5.83	-0.003101	±2.5	PASS
Band II	9400	16QAM	VN	10	-3.08	-0.001640	±2.5	PASS
Band II	9400	16QAM	VN	20	-12.45	-0.006624	±2.5	PASS



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Band II	9400	16QAM	VN	30	-3.44	-0.001830	±2.5	PASS
Band II	9400	16QAM	VN	40	-5.09	-0.002705	±2.5	PASS
Band II	9400	16QAM	VN	50	-12.22	-0.006502	±2.5	PASS
Band II	9538	16QAM	VN	-30	-9.93	-0.005208	±2.5	PASS
Band II	9538	16QAM	VN	-20	-12.28	-0.006438	±2.5	PASS
Band II	9538	16QAM	VN	-10	-14.75	-0.007731	±2.5	PASS
Band II	9538	16QAM	VN	0	-4.64	-0.002433	±2.5	PASS
Band II	9538	16QAM	VN	10	-10.17	-0.005332	±2.5	PASS
Band II	9538	16QAM	VN	20	-14.29	-0.007492	±2.5	PASS
Band II	9538	16QAM	VN	30	-7.04	-0.003690	±2.5	PASS
Band II	9538	16QAM	VN	40	-10.21	-0.005354	±2.5	PASS
Band II	9538	16QAM	VN	50	-6.58	-0.003450	±2.5	PASS
Band V	4132	QPSK	VN	-30	-14.13	-0.017094	±2.5	PASS
Band V	4132	QPSK	VN	-20	-11.06	-0.013381	±2.5	PASS
Band V	4132	QPSK	VN	-10	-9.63	-0.011650	±2.5	PASS
Band V	4132	QPSK	VN	0	-9.58	-0.011589	±2.5	PASS
Band V	4132	QPSK	VN	10	-11.62	-0.014065	±2.5	PASS
Band V	4132	QPSK	VN	20	-10.48	-0.012680	±2.5	PASS
Band V	4132	QPSK	VN	30	-6.66	-0.008058	±2.5	PASS
Band V	4132	QPSK	VN	40	-8.43	-0.010196	±2.5	PASS
Band V	4132	QPSK	VN	50	-8.48	-0.010256	±2.5	PASS
Band V	4182	QPSK	VN	-30	-4.13	-0.004934	±2.5	PASS
Band V	4182	QPSK	VN	-20	-7.04	-0.008415	±2.5	PASS
Band V	4182	QPSK	VN	-10	-2.50	-0.002985	±2.5	PASS
Band V	4182	QPSK	VN	0	-4.21	-0.005037	±2.5	PASS
Band V	4182	QPSK	VN	10	-11.67	-0.013956	±2.5	PASS
Band V	4182	QPSK	VN	20	-16.23	-0.019404	±2.5	PASS
Band V	4182	QPSK	VN	30	-6.95	-0.008304	±2.5	PASS
Band V	4182	QPSK	VN	40	-5.99	-0.007158	±2.5	PASS
Band V	4182	QPSK	VN	50	-4.33	-0.005182	±2.5	PASS
Band V	4233	QPSK	VN	-30	-9.56	-0.011287	±2.5	PASS
Band V	4233	QPSK	VN	-20	-10.98	-0.012969	±2.5	PASS
Band V	4233	QPSK	VN	-10	-6.57	-0.007764	±2.5	PASS
Band V	4233	QPSK	VN	0	-5.28	-0.006235	±2.5	PASS
Band V	4233	QPSK	VN	10	-8.83	-0.010426	±2.5	PASS
Band V	4233	QPSK	VN	20	-9.70	-0.011456	±2.5	PASS
Band V	4233	QPSK	VN	30	-7.87	-0.009302	±2.5	PASS
Band V	4233	QPSK	VN	40	-9.06	-0.010704	±2.5	PASS
Band V	4233	QPSK	VN	50	-5.08	-0.005998	±2.5	PASS
Band V	4132	16QAM	VN	-30	-2.45	-0.002960	±2.5	PASS
Band V	4132	16QAM	VN	-20	-12.00	-0.014523	±2.5	PASS
Band V	4132	16QAM	VN	-10	-8.62	-0.010429	±2.5	PASS
Band V	4132	16QAM	VN	0	-11.77	-0.014238	±2.5	PASS
Band V	4132	16QAM	VN	10	-8.70	-0.010533	±2.5	PASS
Band V	4132	16QAM	VN	20	-7.90	-0.009555	±2.5	PASS
Band V	4132	16QAM	VN	30	-14.73	-0.017829	±2.5	PASS



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Band V	4132	16QAM	VN	40	-5.04	-0.006093	±2.5	PASS
Band V	4132	16QAM	VN	50	-9.58	-0.011598	±2.5	PASS
Band V	4182	16QAM	VN	-30	-3.32	-0.003968	±2.5	PASS
Band V	4182	16QAM	VN	-20	-8.63	-0.010322	±2.5	PASS
Band V	4182	16QAM	VN	-10	1.17	0.001394	±2.5	PASS
Band V	4182	16QAM	VN	0	-3.13	-0.003746	±2.5	PASS
Band V	4182	16QAM	VN	10	-7.80	-0.009321	±2.5	PASS
Band V	4182	16QAM	VN	20	-2.35	-0.002805	±2.5	PASS
Band V	4182	16QAM	VN	30	-3.54	-0.004233	±2.5	PASS
Band V	4182	16QAM	VN	40	-16.42	-0.019626	±2.5	PASS
Band V	4182	16QAM	VN	50	-3.90	-0.004661	±2.5	PASS
Band V	4233	16QAM	VN	-30	-6.85	-0.008094	±2.5	PASS
Band V	4233	16QAM	VN	-20	-8.05	-0.009505	±2.5	PASS
Band V	4233	16QAM	VN	-10	-11.91	-0.014067	±2.5	PASS
Band V	4233	16QAM	VN	0	-0.66	-0.000777	±2.5	PASS
Band V	4233	16QAM	VN	10	-8.97	-0.010595	±2.5	PASS
Band V	4233	16QAM	VN	20	-5.59	-0.006607	±2.5	PASS
Band V	4233	16QAM	VN	30	-7.18	-0.008482	±2.5	PASS
Band V	4233	16QAM	VN	40	-9.11	-0.010755	±2.5	PASS
Band V	4233	16QAM	VN	50	-4.42	-0.005221	±2.5	PASS

The End



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