

Appendix B

WCDMA Band II & IV & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Modulation	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	QPSK	9262	23.30	22.60	33.00	PASS
Band II	QPSK	9400	23.28	22.58	33.00	PASS
Band II	QPSK	9538	23.27	22.57	33.00	PASS
Band II	16QAM	9262	20.22	19.52	33.00	PASS
Band II	16QAM	9400	20.14	19.44	33.00	PASS
Band II	16QAM	9538	20.33	19.63	33.00	PASS
Band IV	QPSK	1312	23.31	22.31	30.00	PASS
Band IV	QPSK	1413	23.35	22.35	30.00	PASS
Band IV	QPSK	1513	23.38	22.38	30.00	PASS
Band IV	16QAM	1312	19.27	18.27	30.00	PASS
Band IV	16QAM	1413	19.29	18.29	30.00	PASS
Band IV	16QAM	1513	19.31	18.31	30.00	PASS

BAND	Modulation	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	QPSK	4132	23.86	21.11	38.45	PASS
Band V	QPSK	4182	23.92	21.17	38.45	PASS
Band V	QPSK	4233	23.92	21.17	38.45	PASS
Band V	16QAM	4132	20.82	18.07	38.45	PASS
Band V	16QAM	4182	20.85	18.10	38.45	PASS
Band V	16QAM	4233	20.87	18.12	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

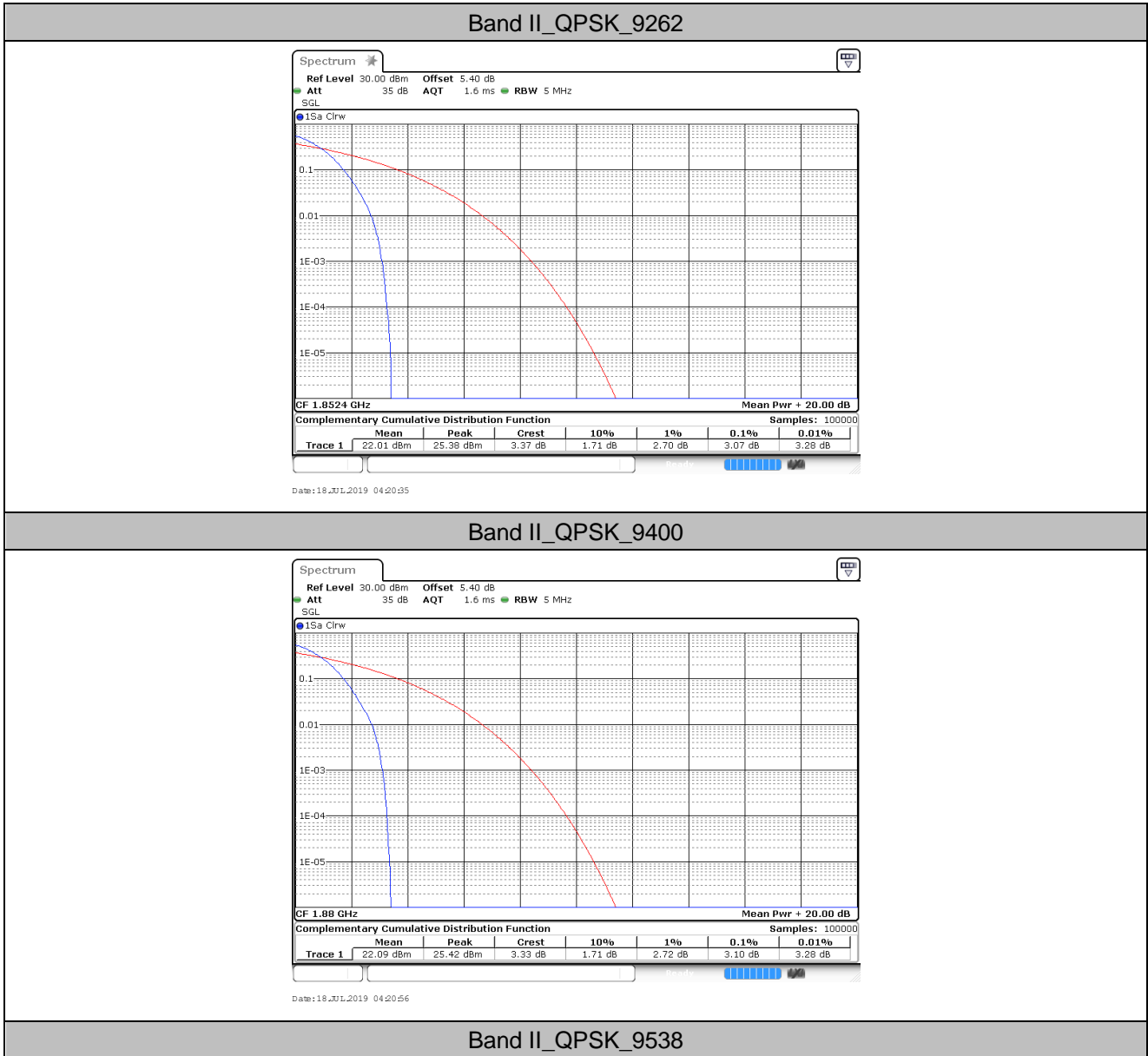
BAND	Modulation	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	QPSK	9262	3.07	13	PASS
Band II	QPSK	9400	3.10	13	PASS
Band II	QPSK	9538	2.87	13	PASS
Band II	16QAM	9262	3.16	13	PASS
Band II	16QAM	9400	3.10	13	PASS
Band II	16QAM	9538	2.90	13	PASS
Band IV	QPSK	1312	2.70	13	PASS
Band IV	QPSK	1413	2.70	13	PASS
Band IV	QPSK	1513	2.70	13	PASS
Band IV	16QAM	1312	2.75	13	PASS
Band IV	16QAM	1413	2.75	13	PASS
Band IV	16QAM	1513	2.64	13	PASS
Band V	QPSK	4132	3.07	13	PASS
Band V	QPSK	4182	2.93	13	PASS
Band V	QPSK	4233	3.04	13	PASS
Band V	16QAM	4132	3.13	13	PASS
Band V	16QAM	4182	3.19	13	PASS
Band V	16QAM	4233	3.04	13	PASS



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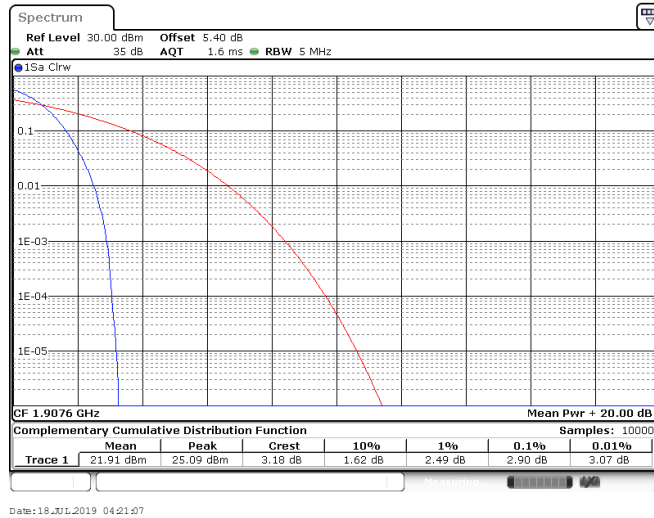
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2.2. Test Plots

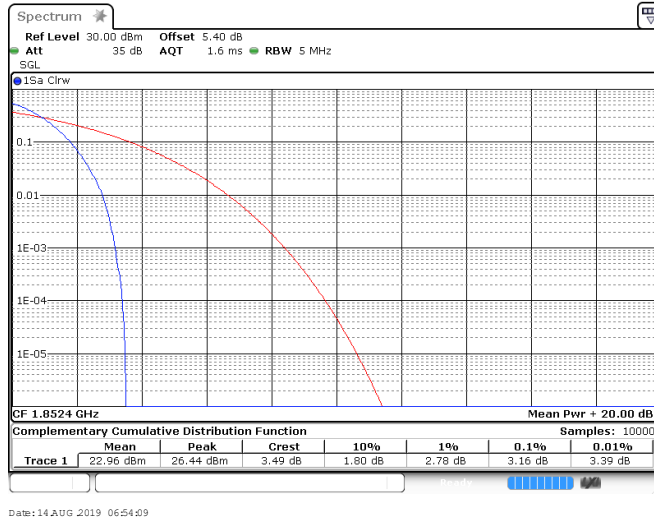


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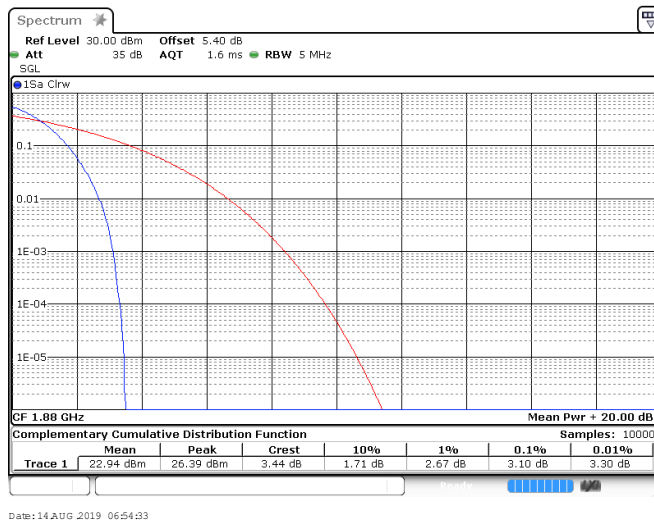
Band II_16QAM_9262



Band II_16QAM_9400

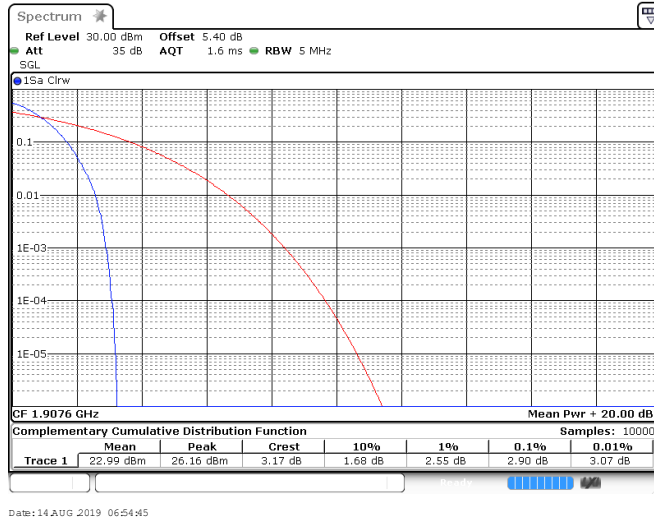


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Date: 14 AUG 2019 06:54:33

Band II_16QAM_9538

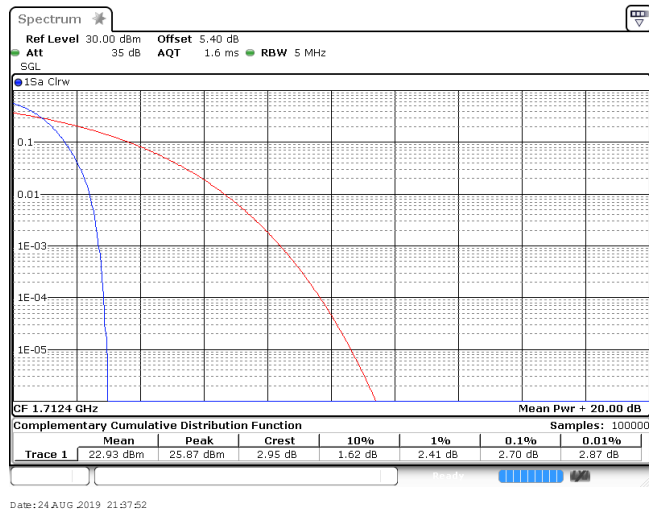


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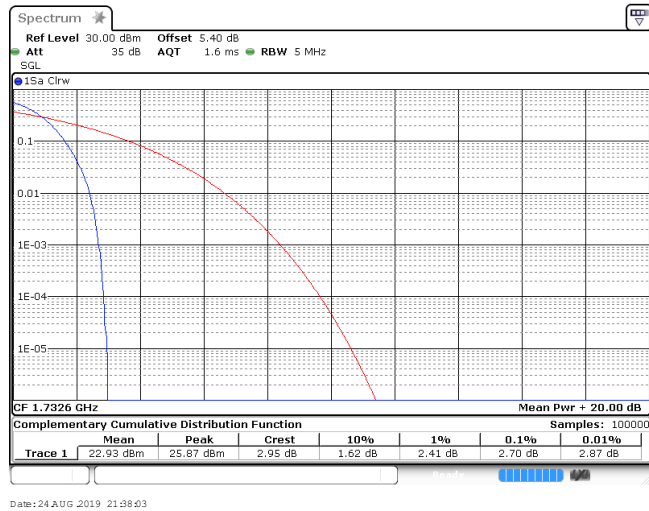
Band IV_QPSK_1312



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Band IV_QPSK_1413

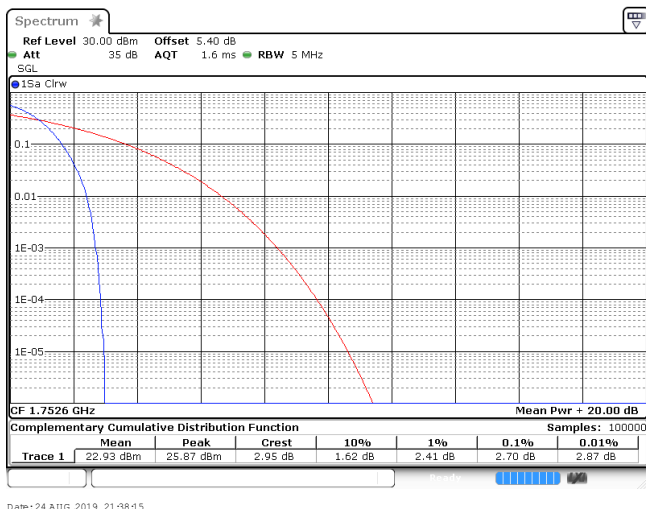


Band IV_QPSK_1513



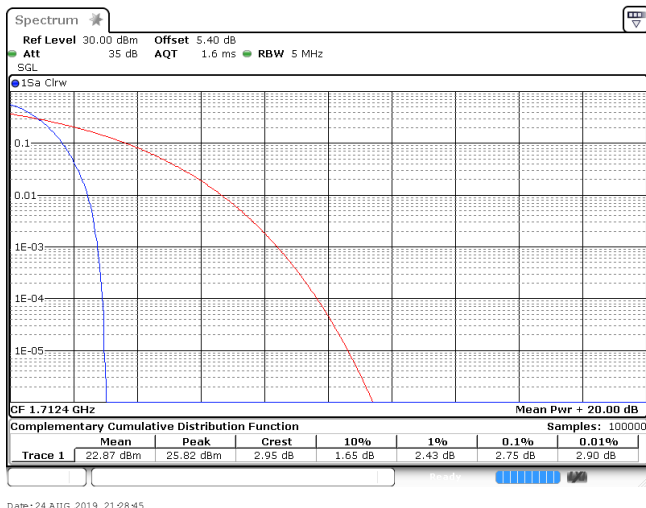
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Band IV_16QAM_1312

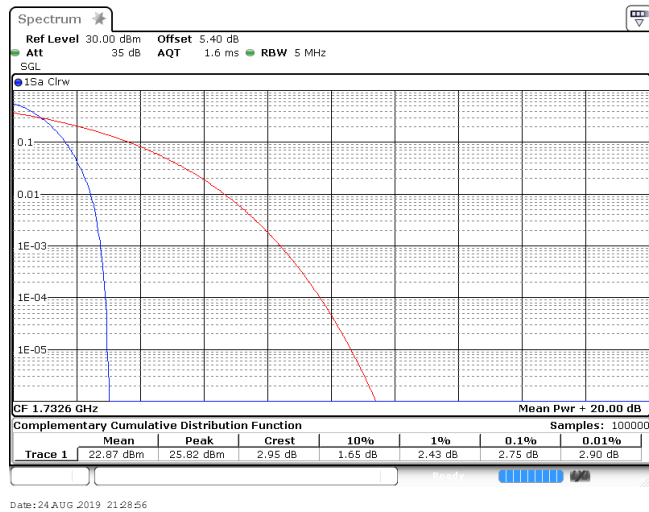


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Band IV_16QAM_1413

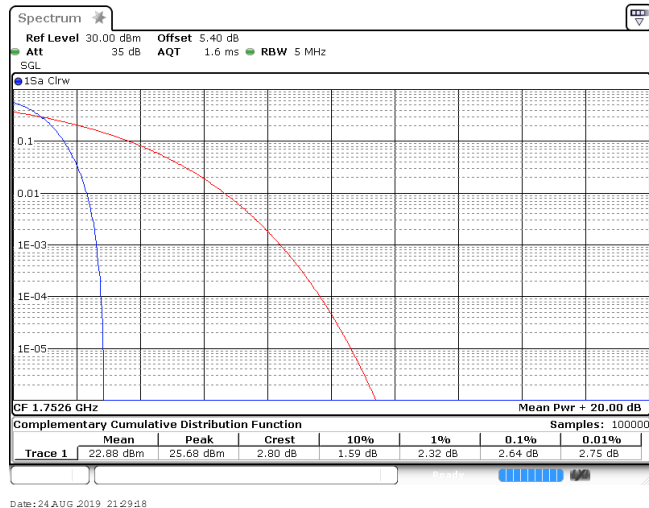


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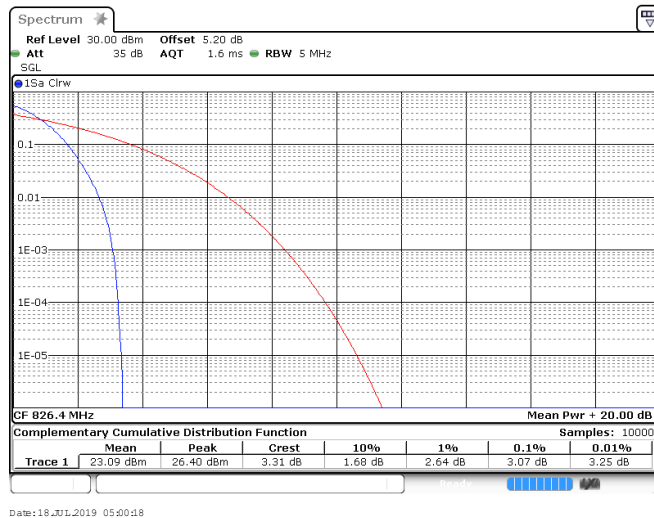


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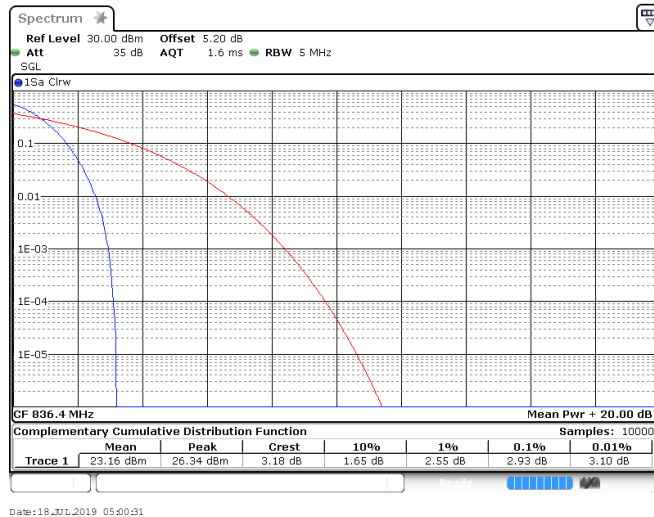
Band V_QPSK_4132



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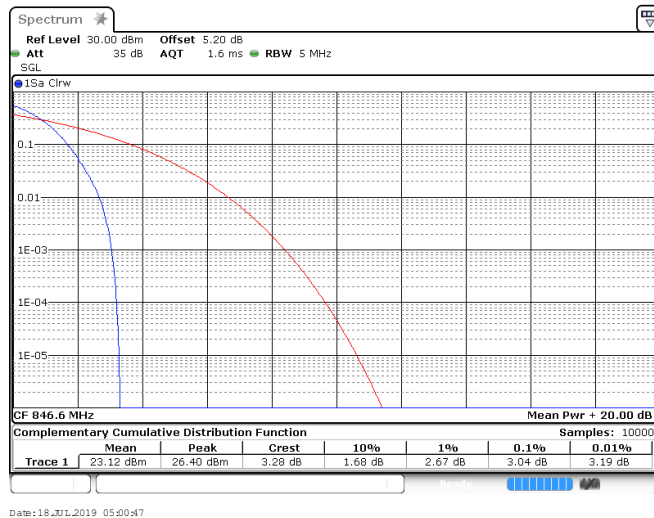


Band V_QPSK_4233

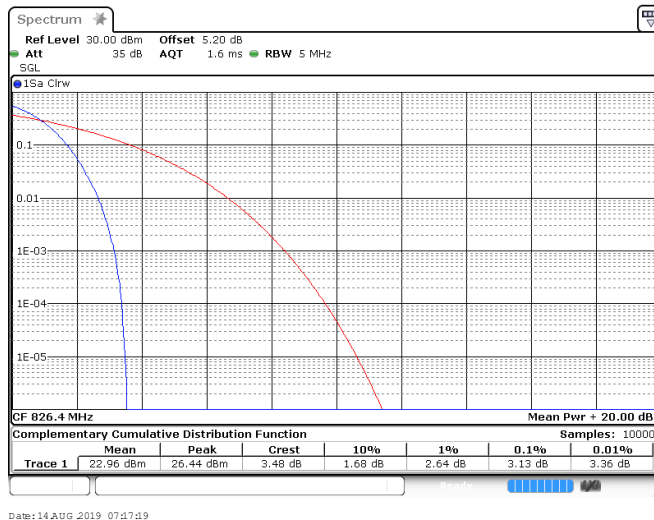


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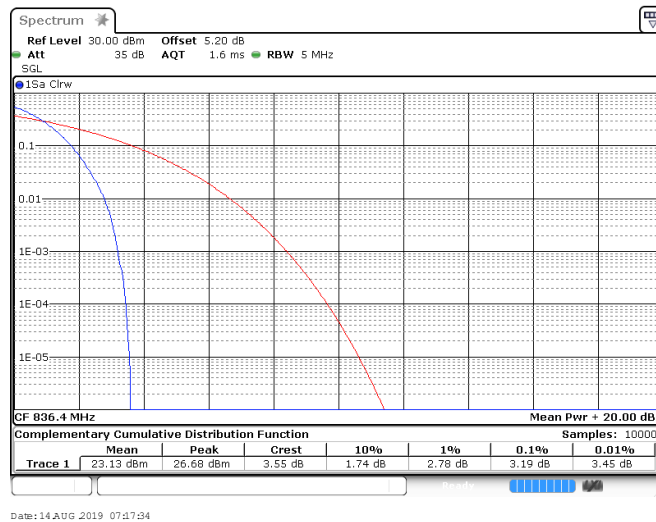


Band V_16QAM_4182

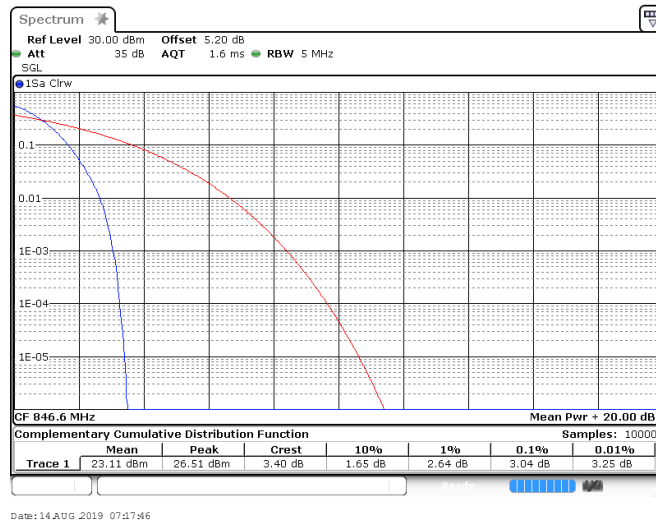


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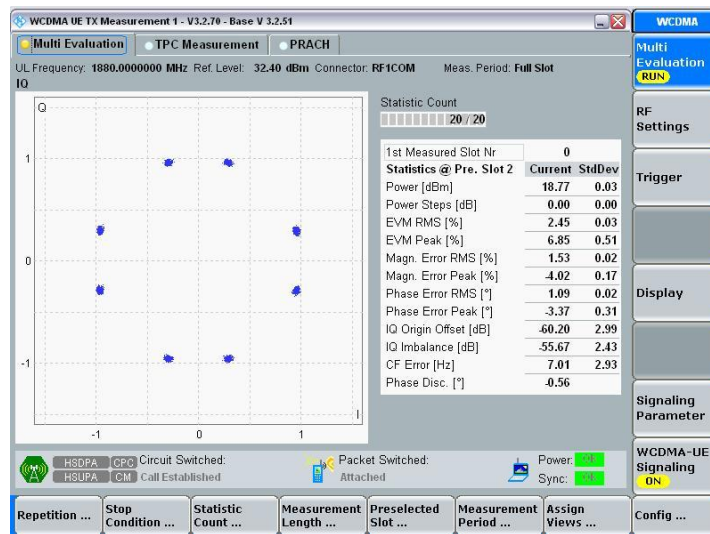
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3. Modulation Characteristics

3.1. Test BAND = WCDMA Band II

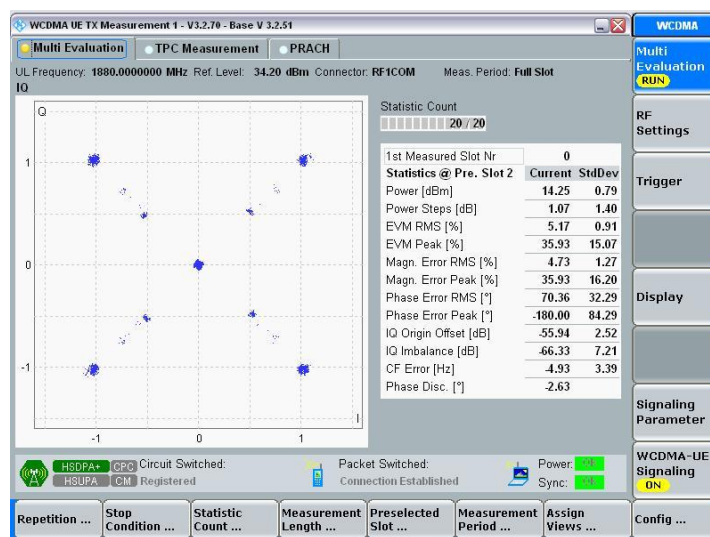
3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



3.1.2. Test Mode = UMTS/TM2

3.1.2.1. Test Channel = MCH

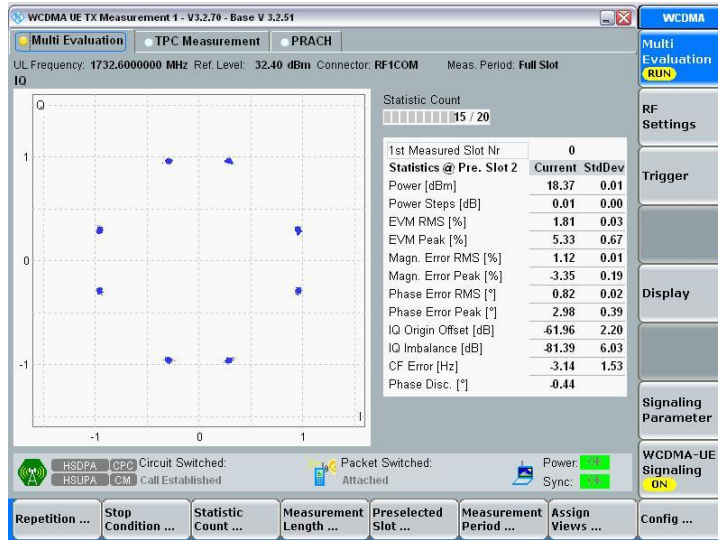


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3.2. Test BAND = WCDMA Band IV

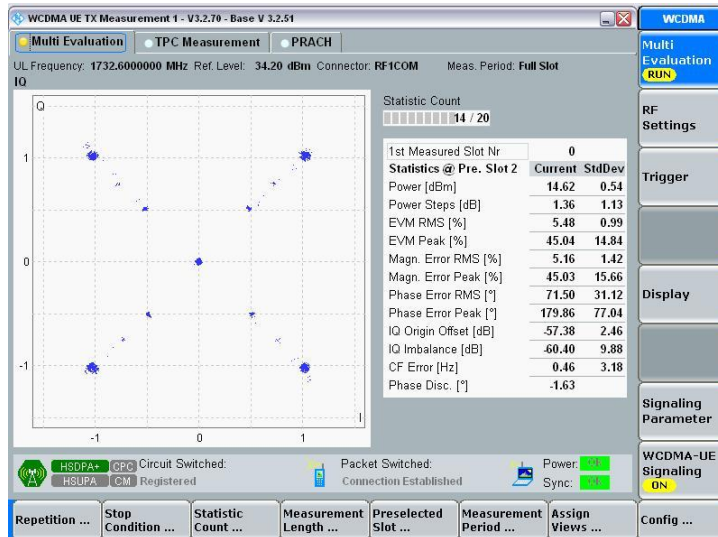
3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



3.2.2. Test Mode = UMTS/TM2

3.2.2.1. Test Channel = MCH

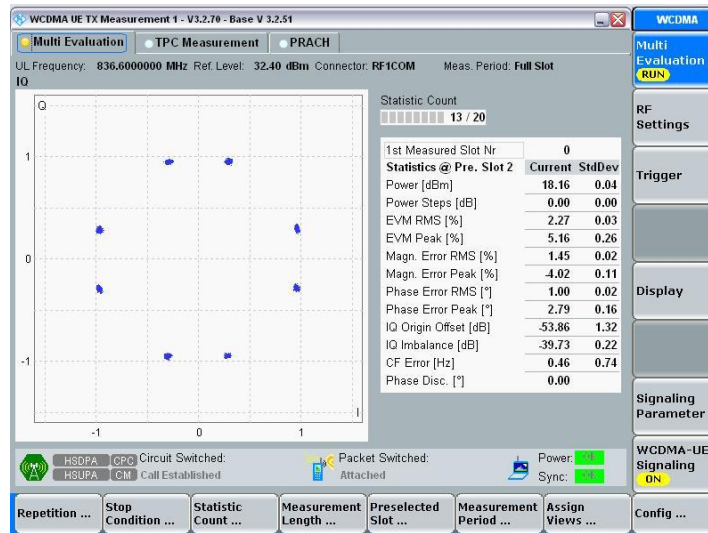


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3.3. Test BAND = WCDMA Band V

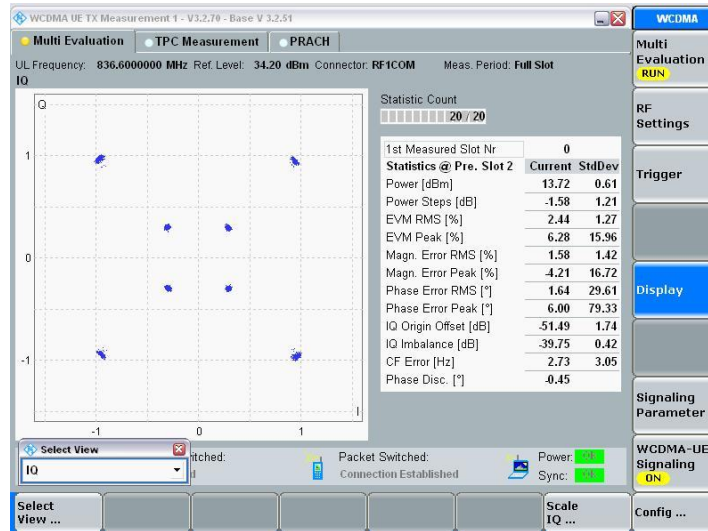
3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH



3.3.2. Test Mode = UMTS/TM2

3.3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

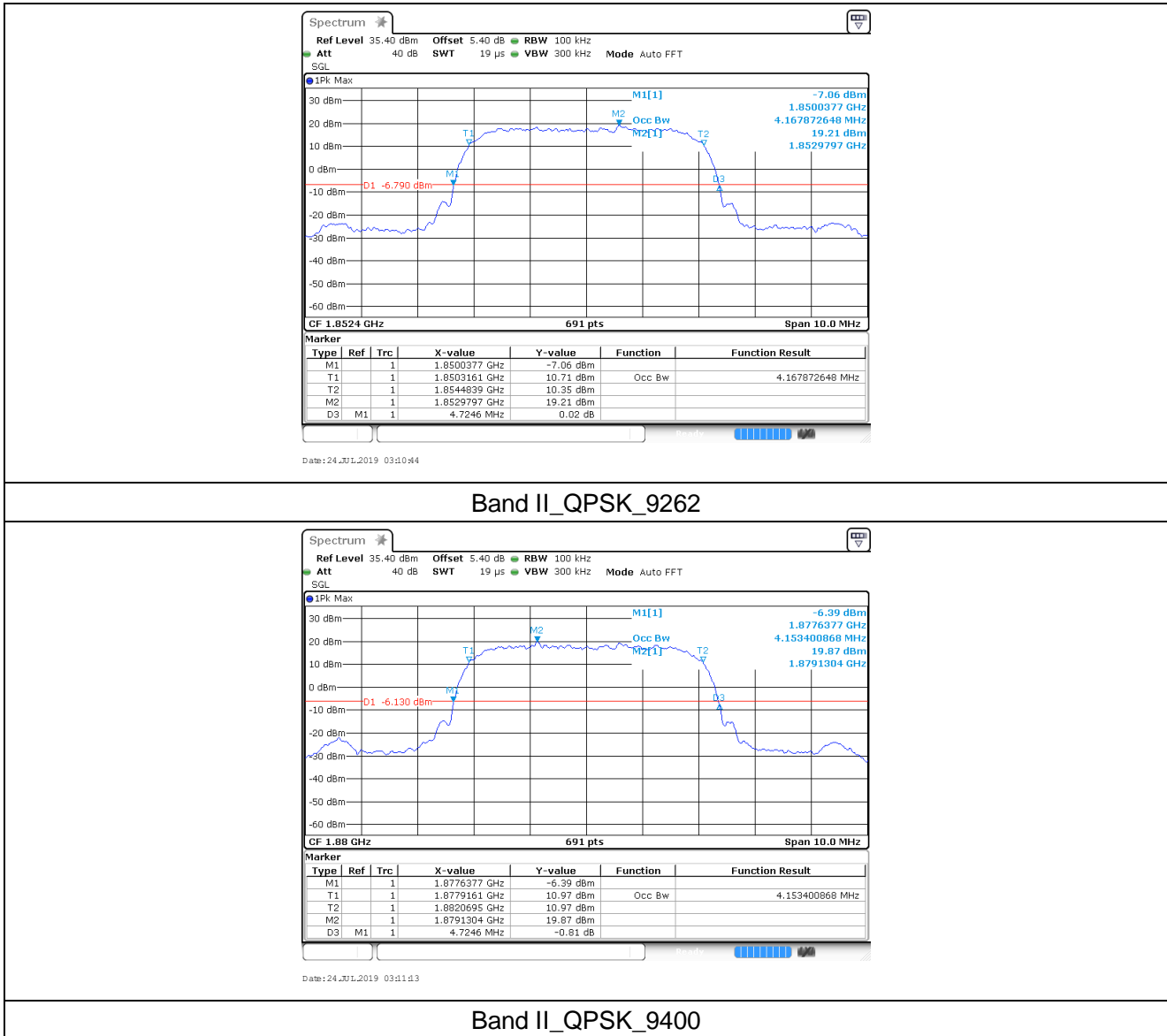
BAND	Modulation	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	QPSK	9262	4167.9	4725	---	PASS
Band II	QPSK	9400	4153.4	4725	---	PASS
Band II	QPSK	9538	4153.4	4754	---	PASS
Band II	16QAM	9262	4153.4	4725	---	PASS
Band II	16QAM	9400	4167.9	4725	---	PASS
Band II	16QAM	9538	4153.4	4725	---	PASS
Band IV	QPSK	1312	4167.9	4725	---	PASS
Band IV	QPSK	1413	4167.9	4754	---	PASS
Band IV	QPSK	1513	4167.9	4725	---	PASS
Band IV	16QAM	1312	4167.9	4768	---	PASS
Band IV	16QAM	1413	4167.9	4754	---	PASS
Band IV	16QAM	1513	4167.9	4725	---	PASS
Band V	QPSK	4132	4153.4	4710	---	PASS
Band V	QPSK	4182	4153.4	4725	---	PASS
Band V	QPSK	4233	4153.4	4725	---	PASS
Band V	16QAM	4132	4153.4	4725	---	PASS
Band V	16QAM	4182	4153.4	4710	---	PASS
Band V	16QAM	4233	4153.4	4710	---	PASS



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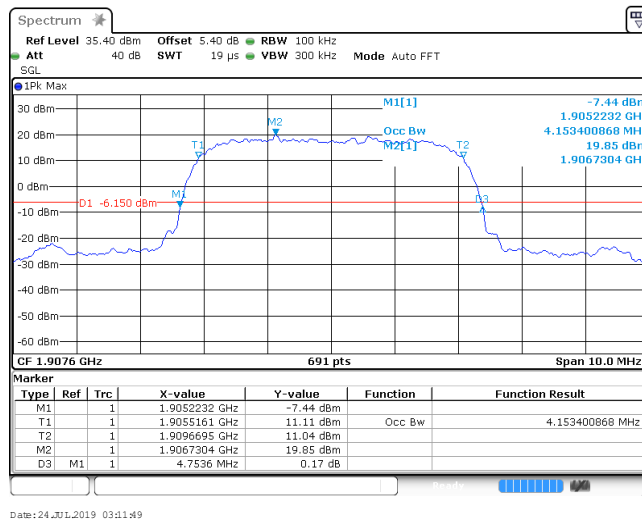
4.2. Test Plots



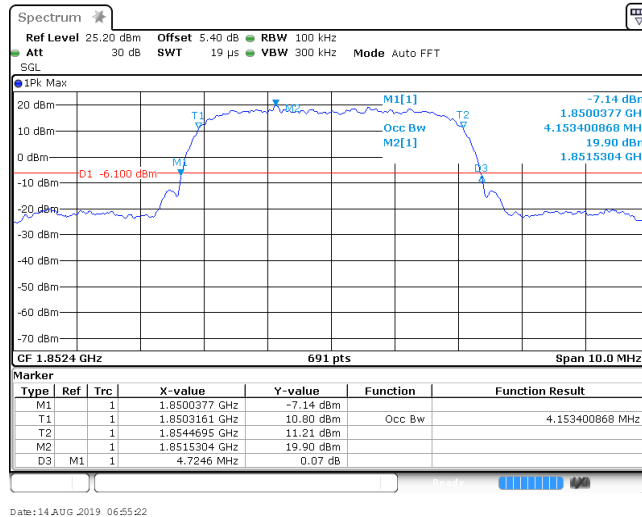
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Band II_QPSK_9538

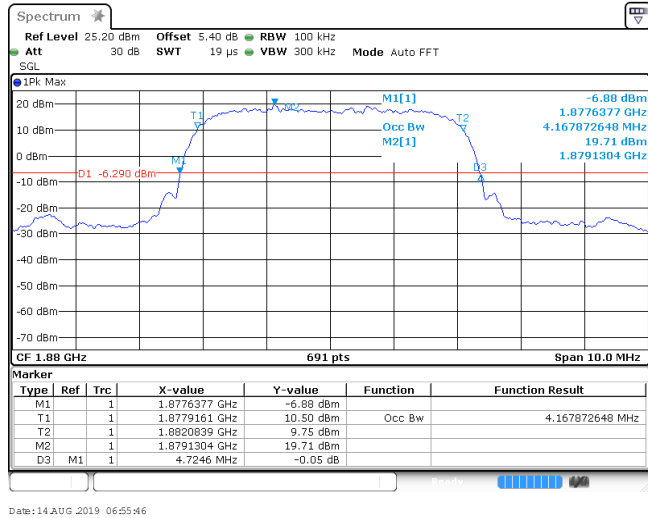


Band II_16QAM_9262



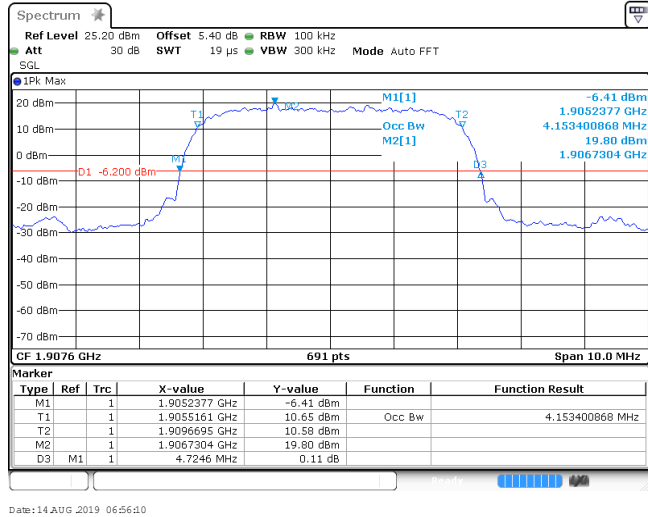
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Date: 14 AUG 2019 06:55:46

Band II_16QAM_9400



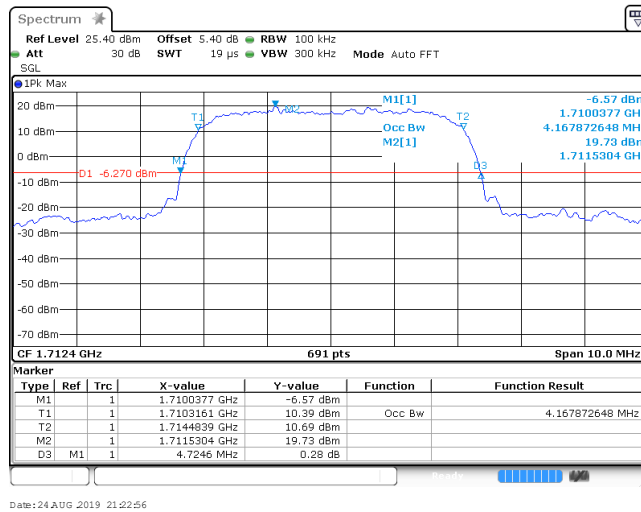
Date: 14 AUG 2019 06:56:10

Band II_16QAM_9538

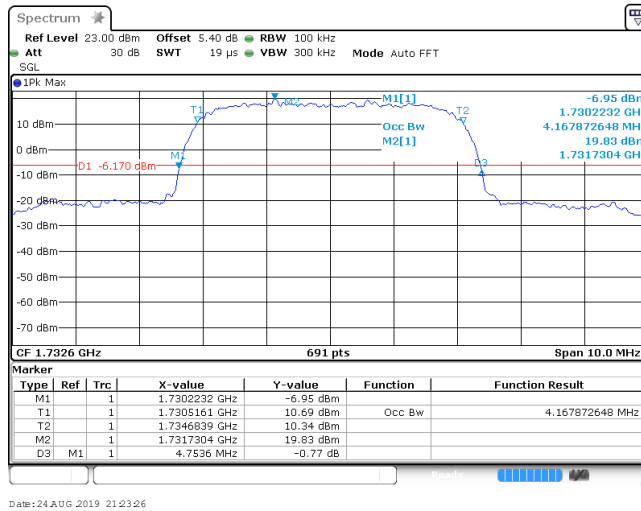


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Band IV_QPSK_1312

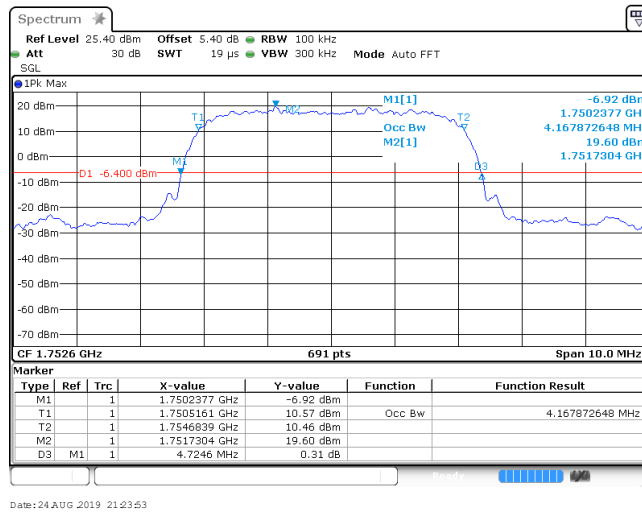


Band IV_QPSK_1413

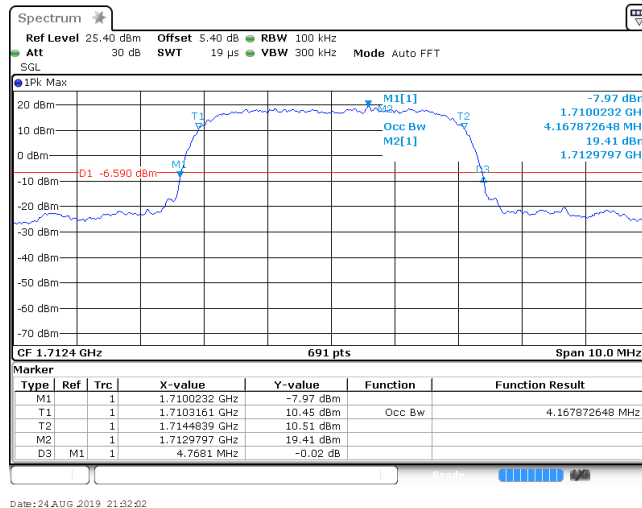


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Band IV_QPSK_1513

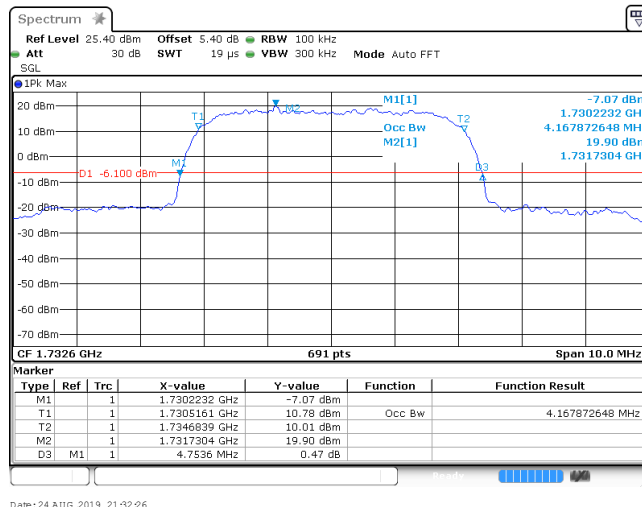


Band IV_16QAM_1312



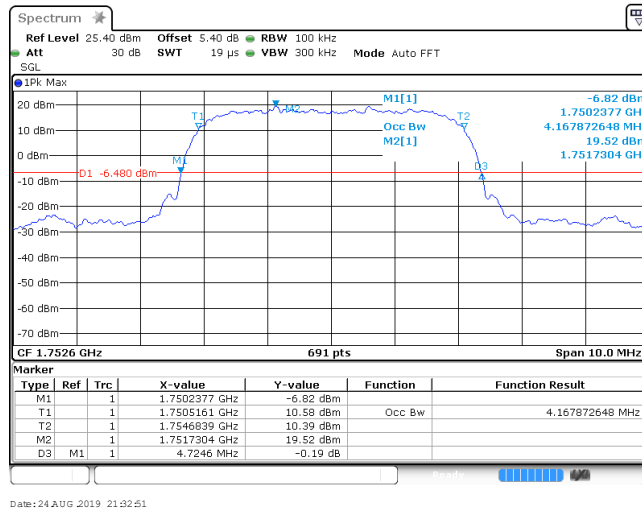
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Band IV_16QAM_1413

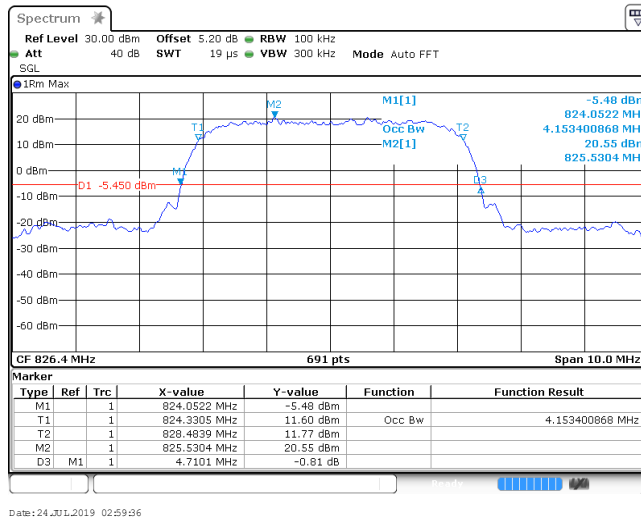


Date: 24 AUG 2019 21:32:51

Band IV_16QAM_1513

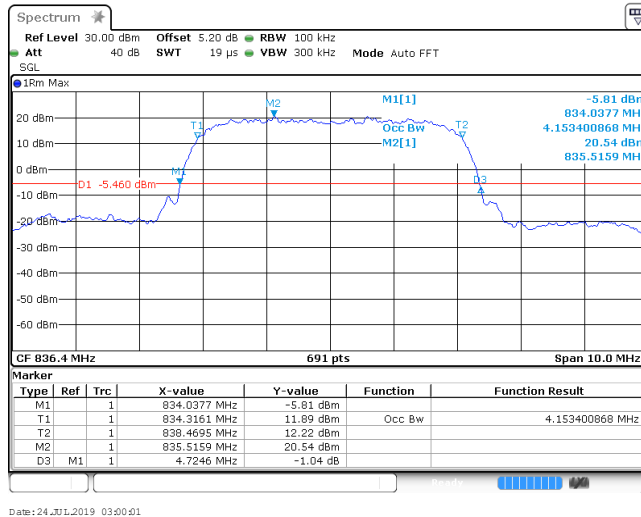


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Date: 24_JUL_2019 02:59:36

Band V_QPSK_4132



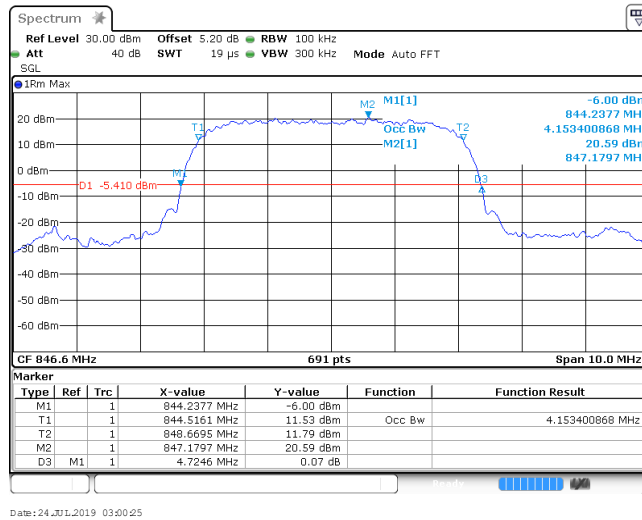
Date: 24_JUL_2019 03:00:21

Band V_QPSK_4182

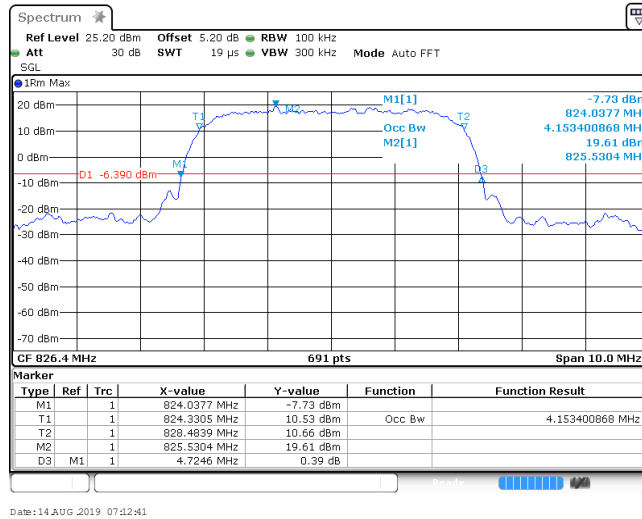


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Band V_QPSK_4233

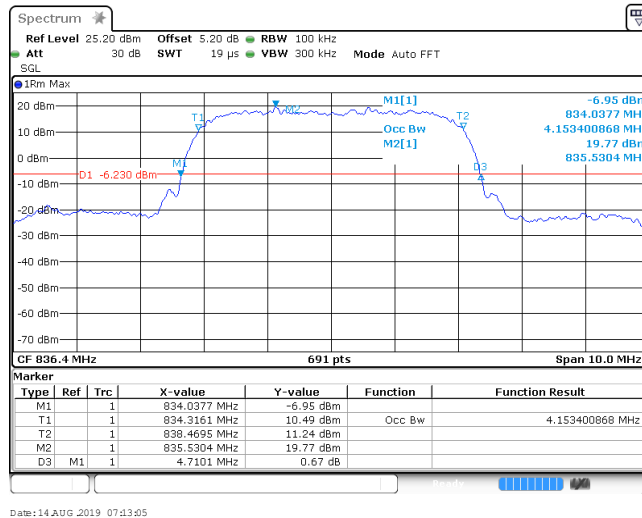


Band V_16QAM_4132



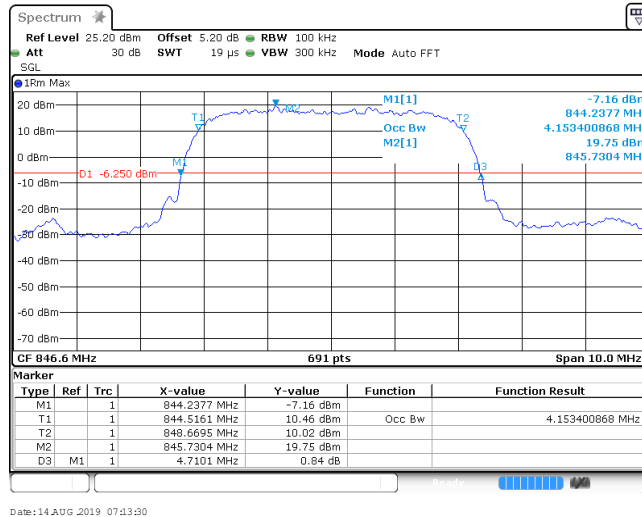
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Date: 14 AUG 2019 07:13:05

Band V_16QAM_4182



Date: 14 AUG 2019 07:13:30

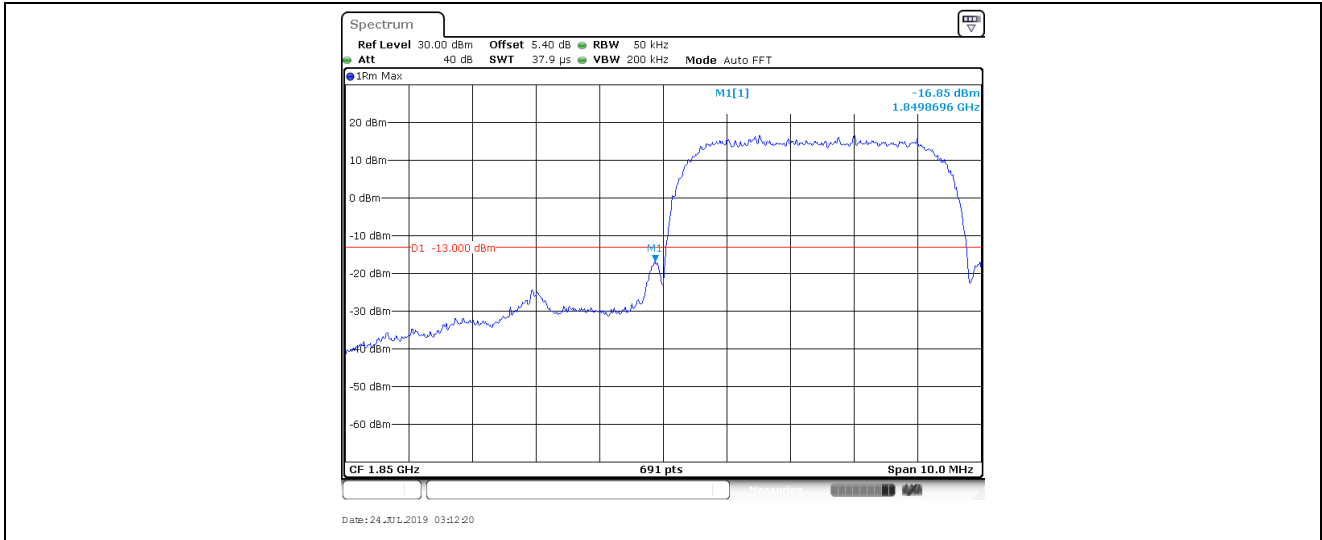
Band V_16QAM_4233



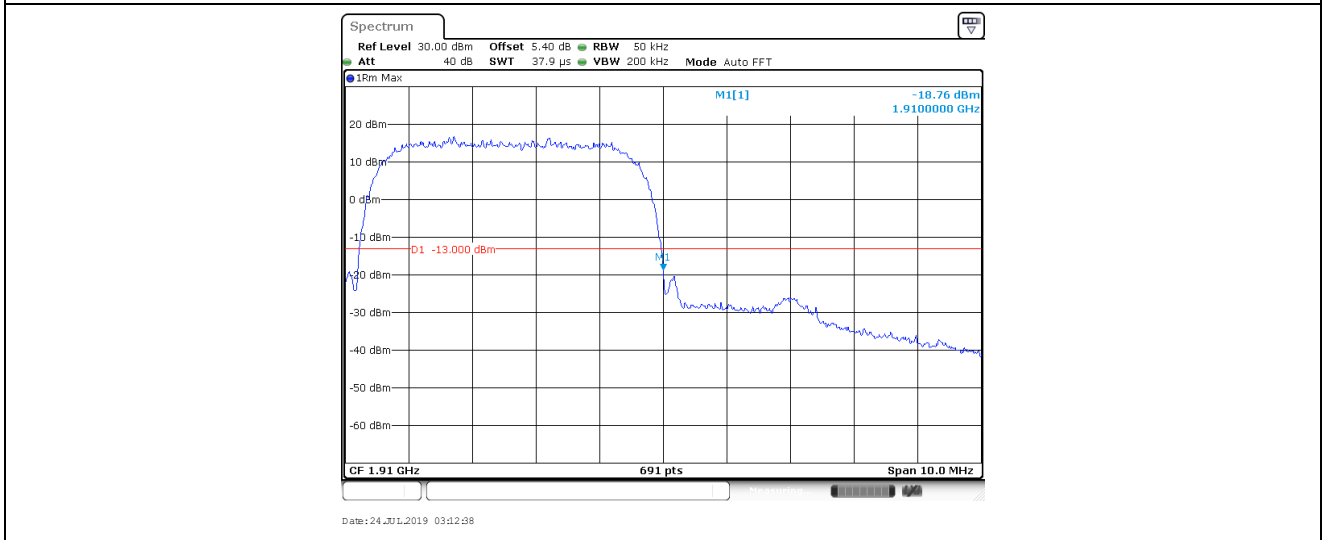
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5. Band Edge Compliance

5.1. Test Plots



Band II_QPSK_9262

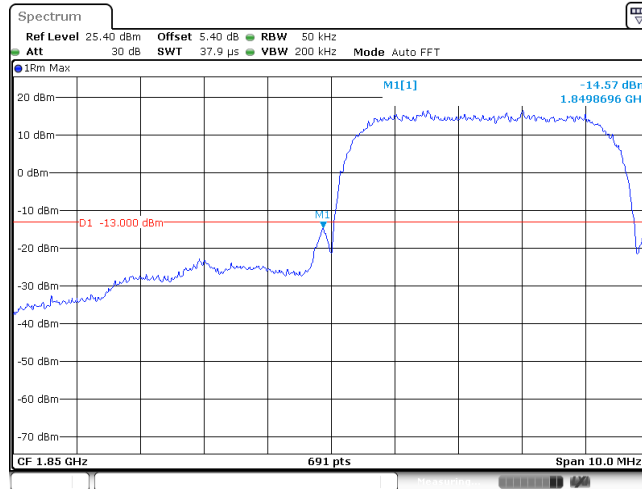


Band II_QPSK_9538



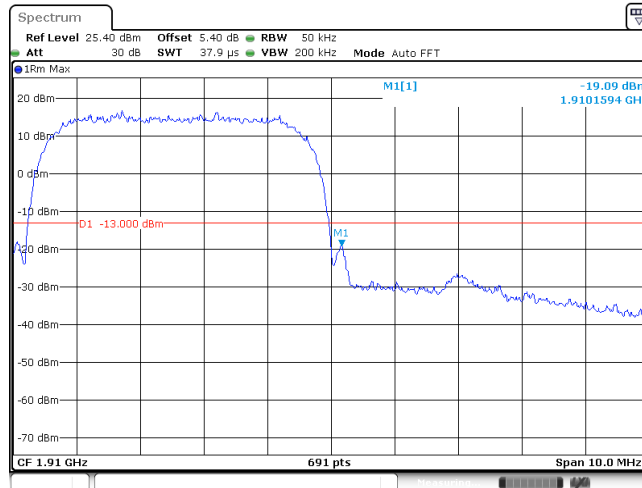
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Date: 14 AUG 2019 06:56:42

Band II_16QAM_9262

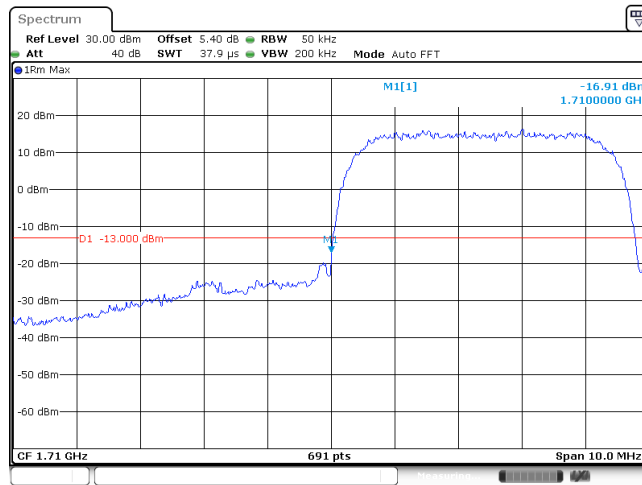


Date: 14 AUG 2019 06:56:59

Band II_16QAM_9538

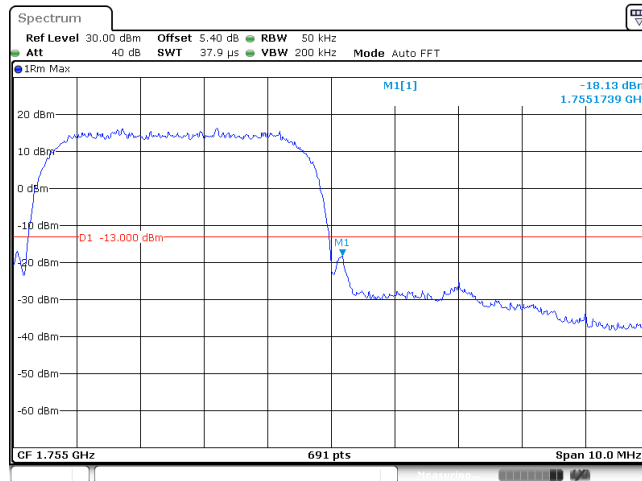


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Date: 24 AUG 2019 21:28:06

Band V_QPSK_1312

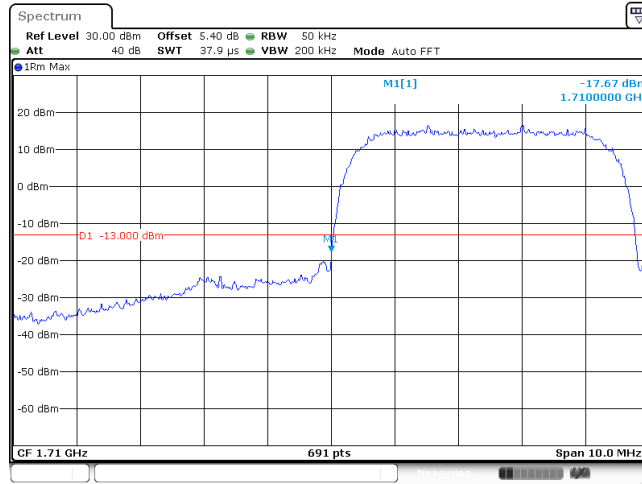


Date: 24 AUG 2019 21:28:23

Band V_QPSK_1513

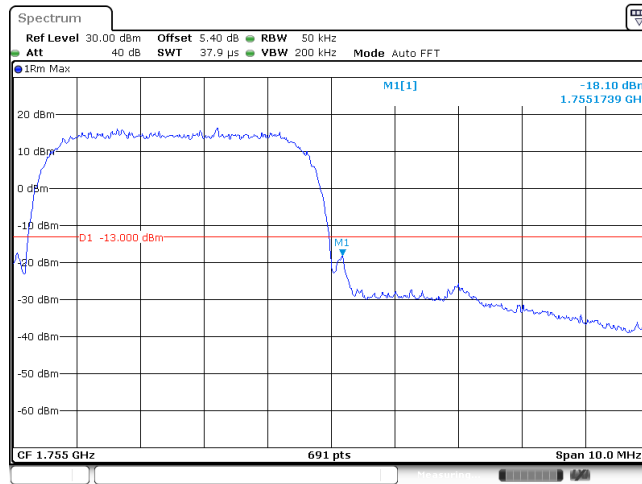


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Date: 24 AUG 2019 21:37:08

Band V_16QAM_1312

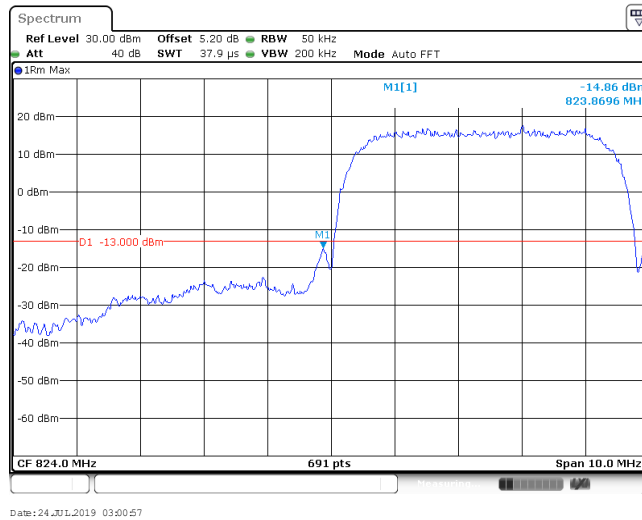


Date: 24 AUG 2019 21:37:26

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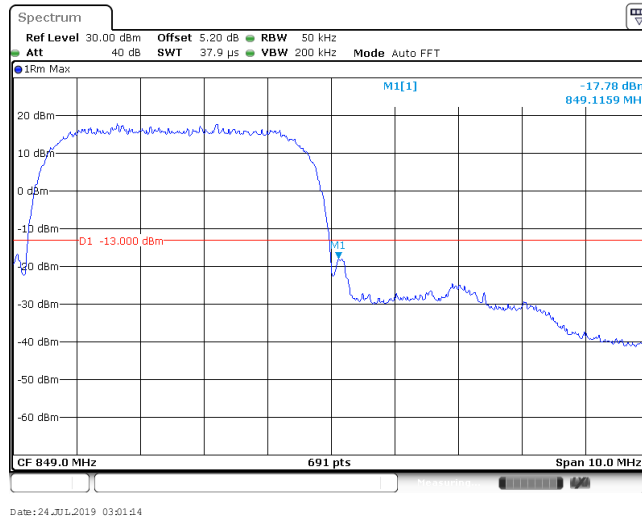


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Date: 24_JUL_2019 03:00:57

Band V_QPSK_4132

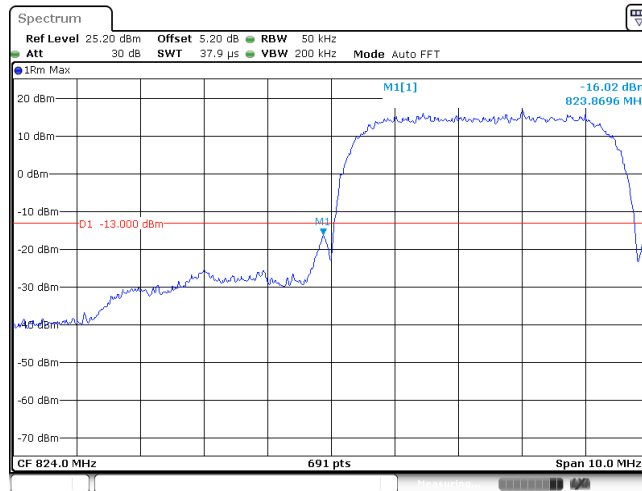


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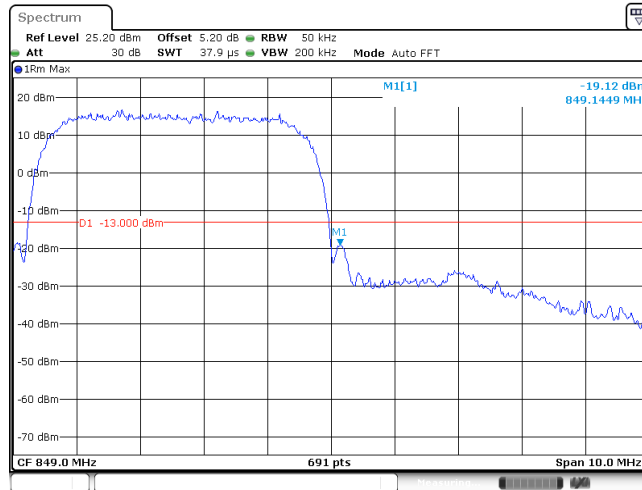


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Date: 14 AUG 2019 07:14:01

Band V_16QAM_4132



Date: 14 AUG 2019 07:14:18

Band V_16QAM_4233



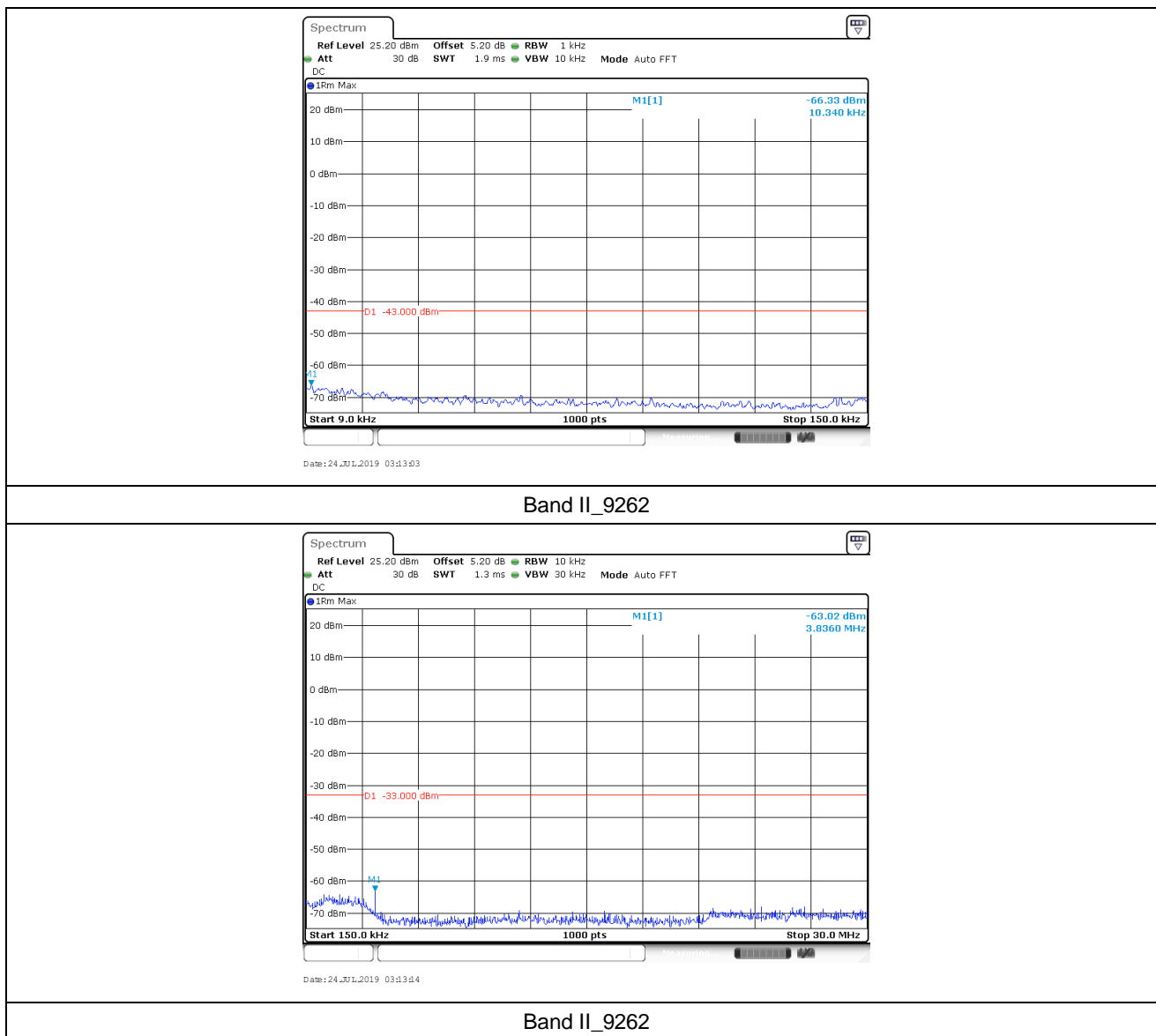
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6. Spurious Emission at Antenna Terminal

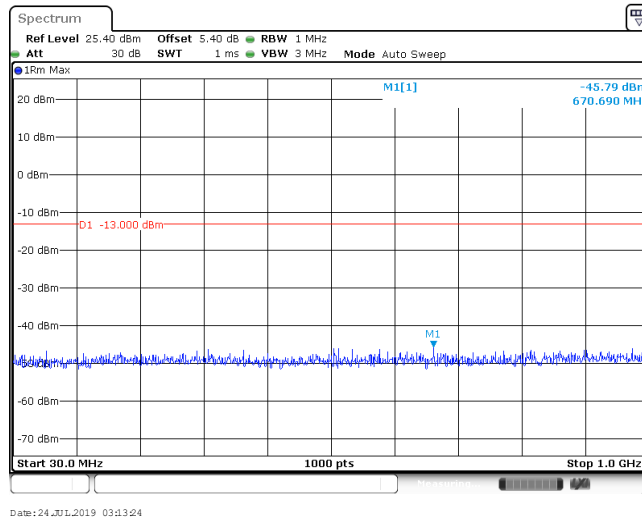
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " 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.

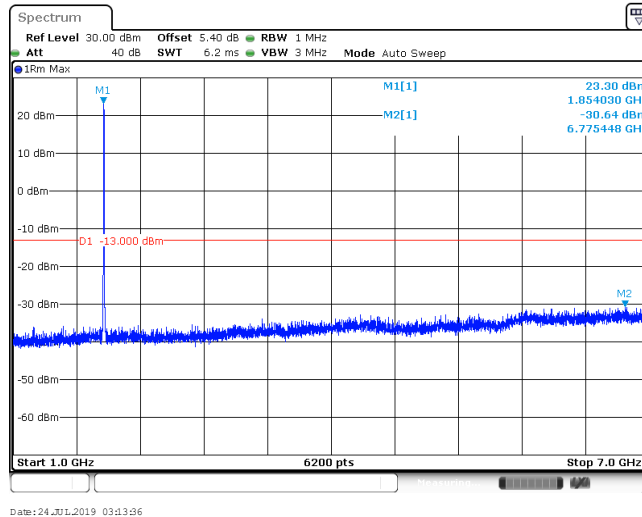
6.1. Test Plots For QPSK



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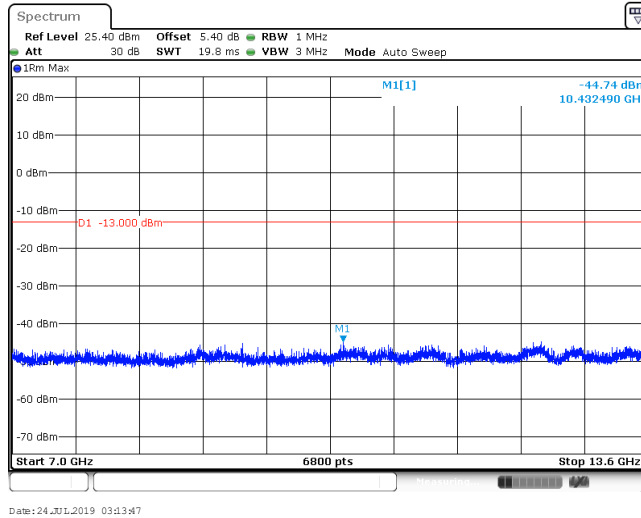
Band II_9262



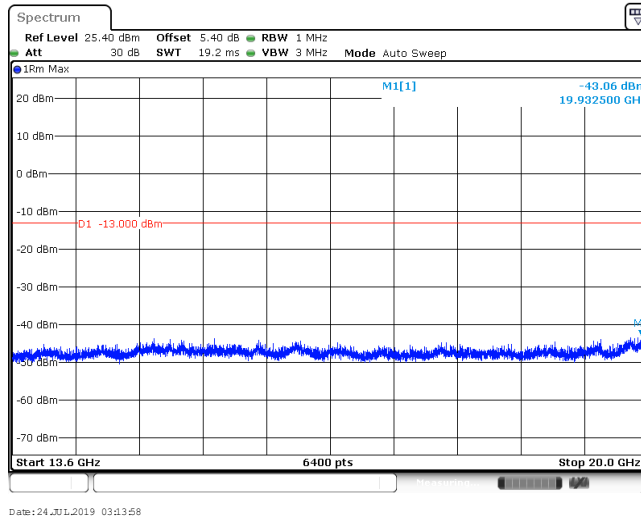
Band II_9262



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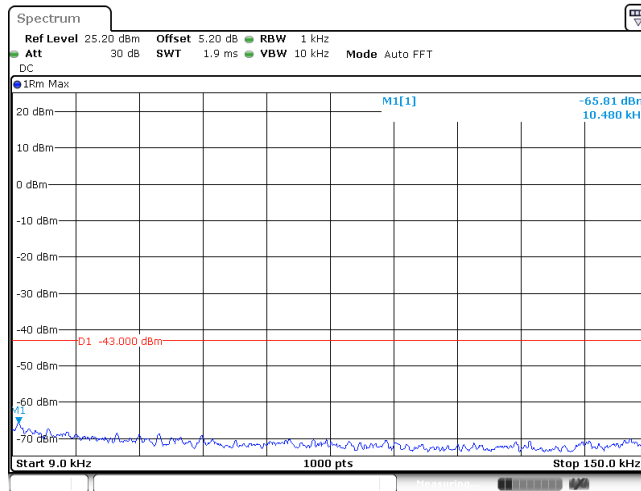
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Band II_9262

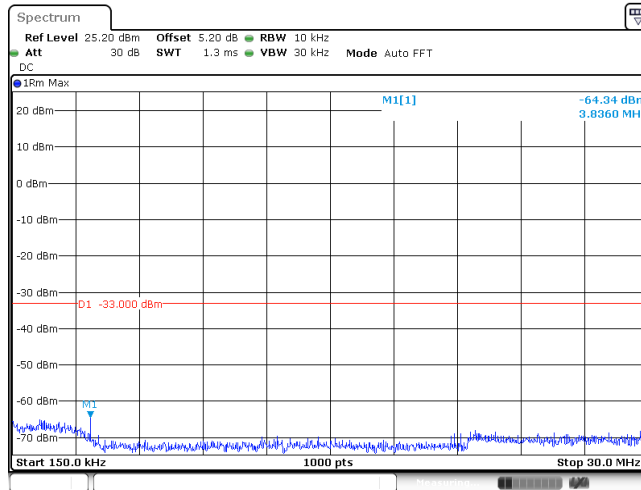


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Date: 24_JUL_2019 03:14:41

Band II_9400

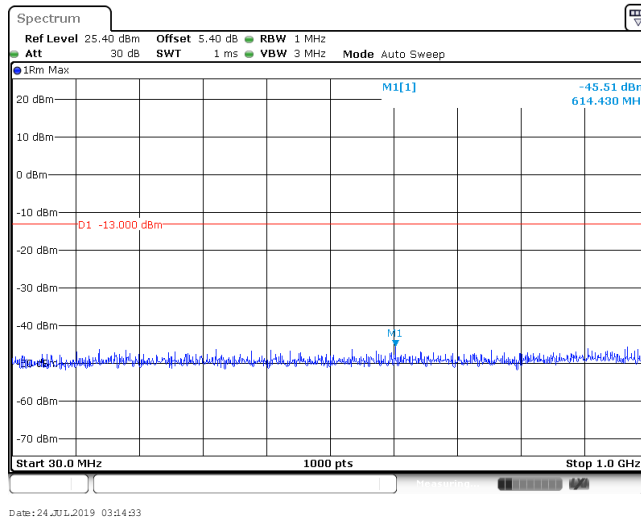


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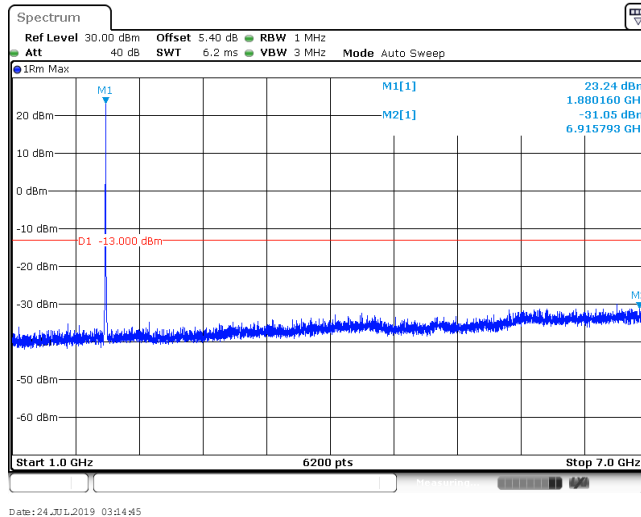
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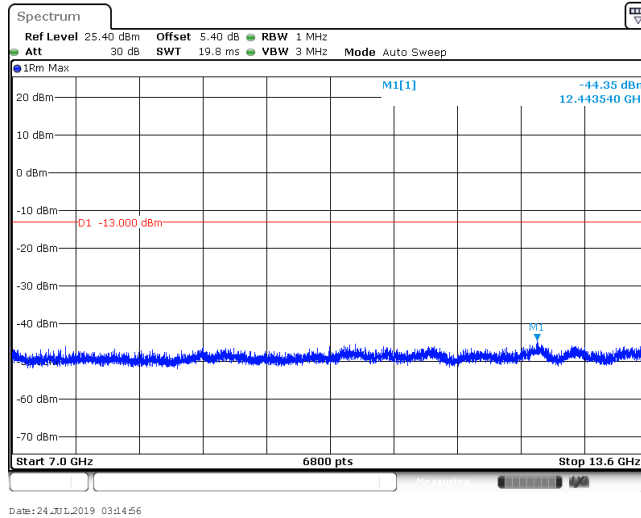


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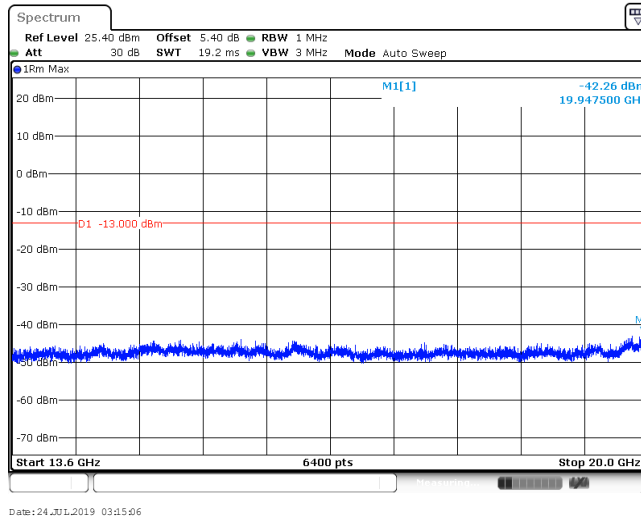


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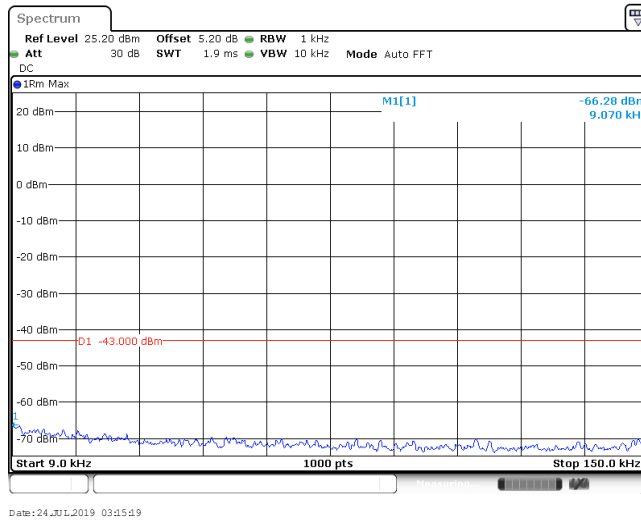
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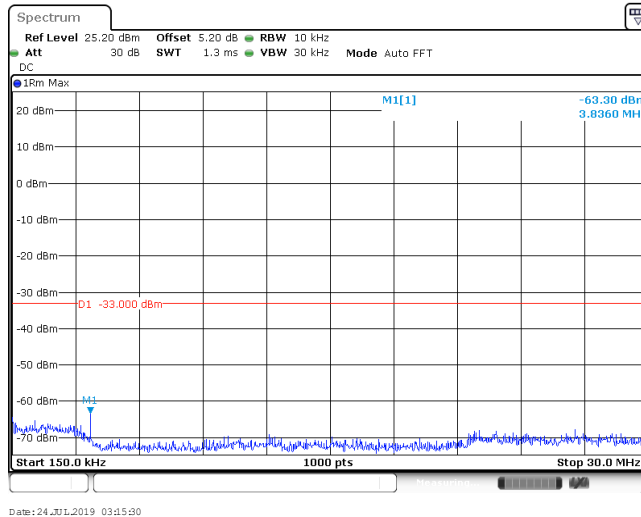
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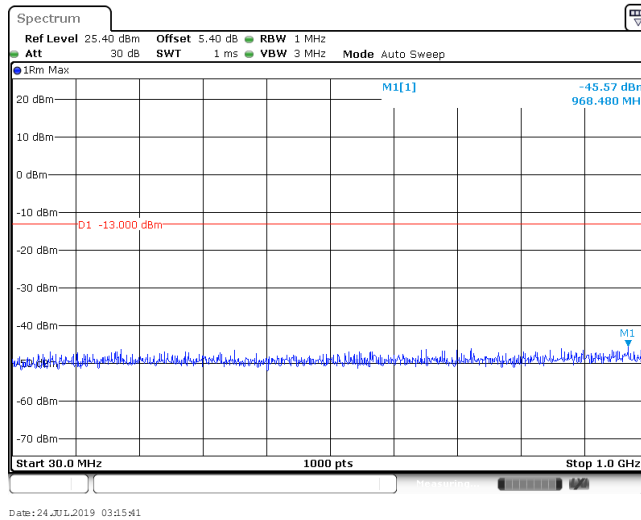


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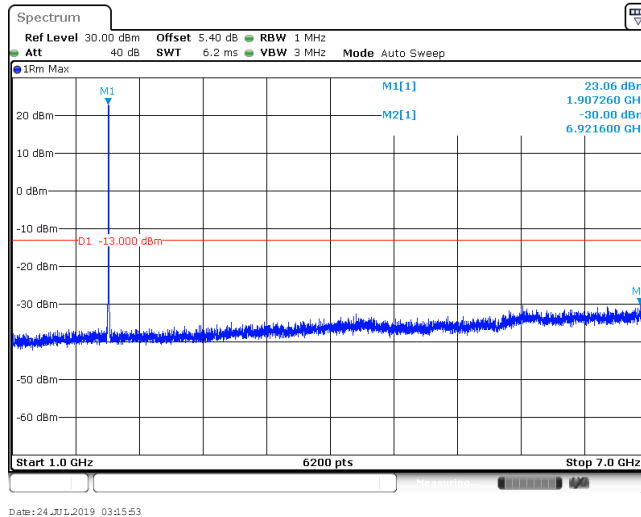


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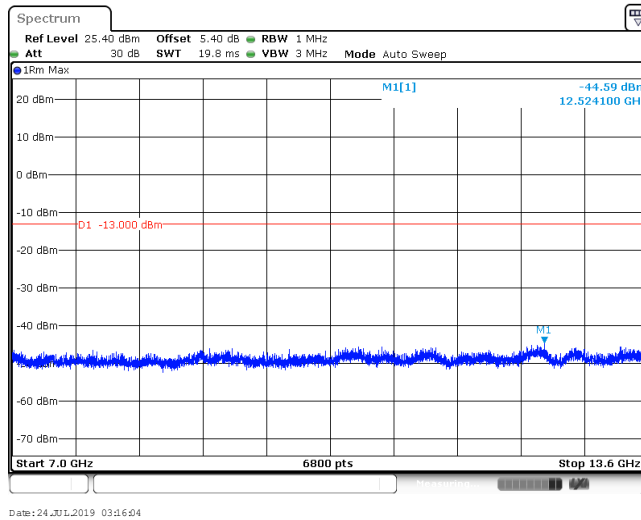
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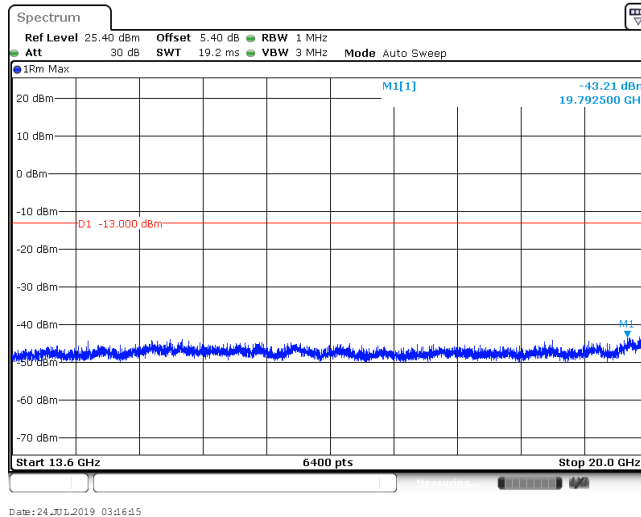
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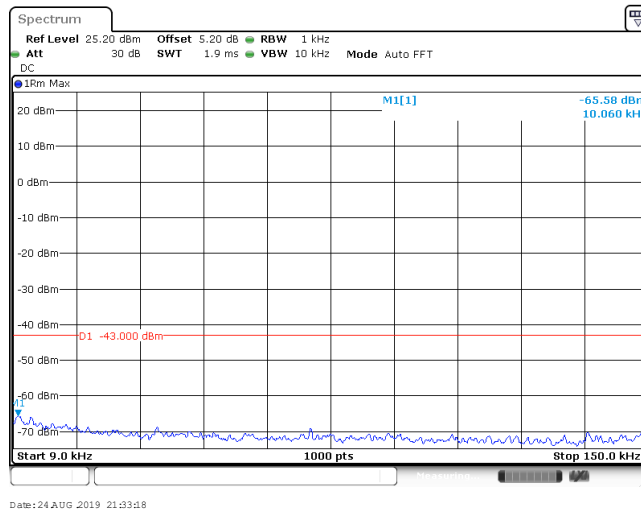
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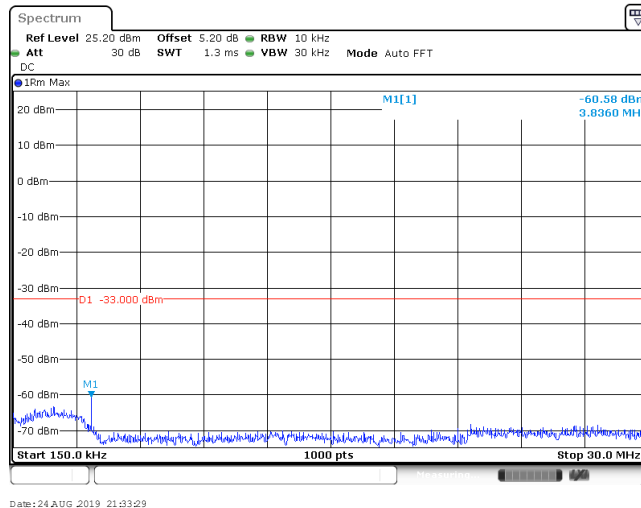
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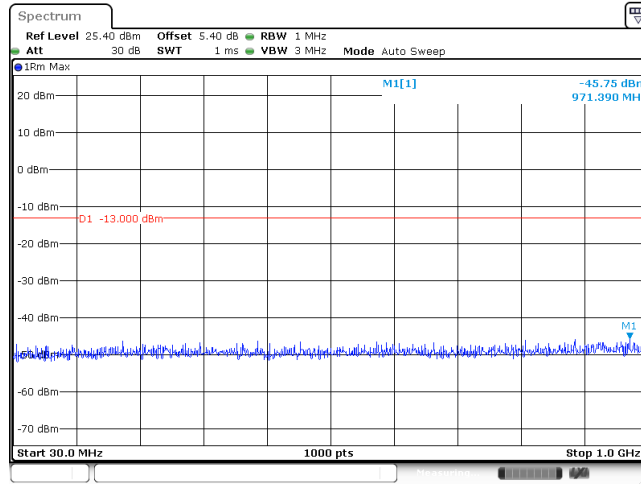
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Band IV_1312

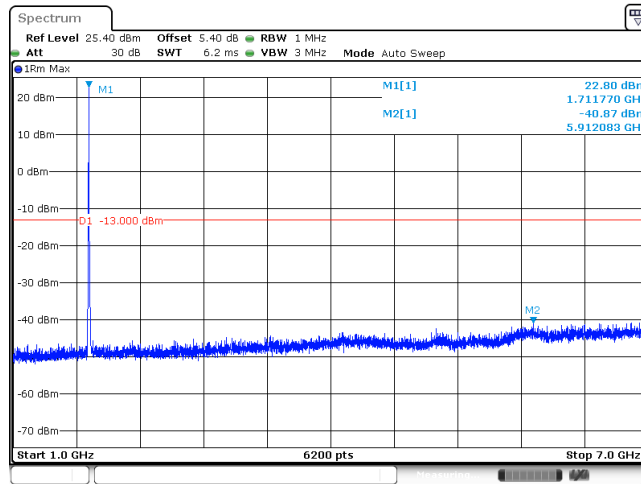


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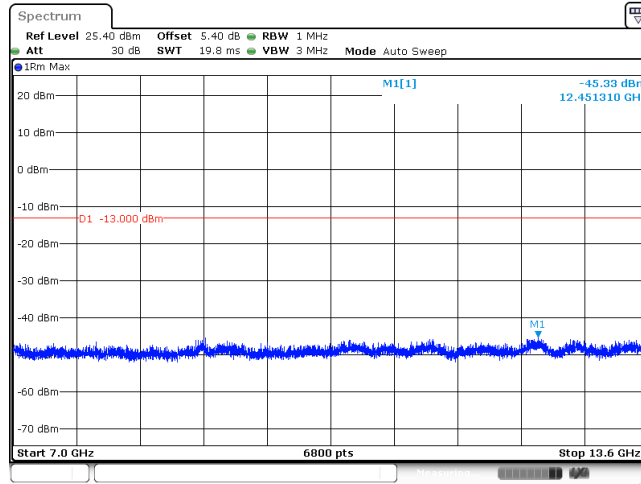
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Band IV_1312



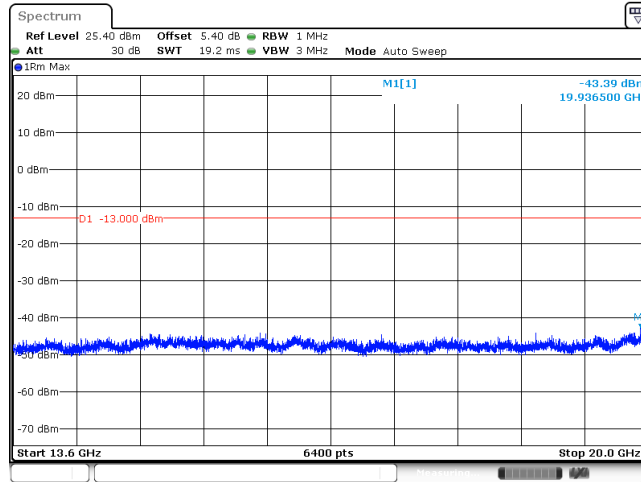
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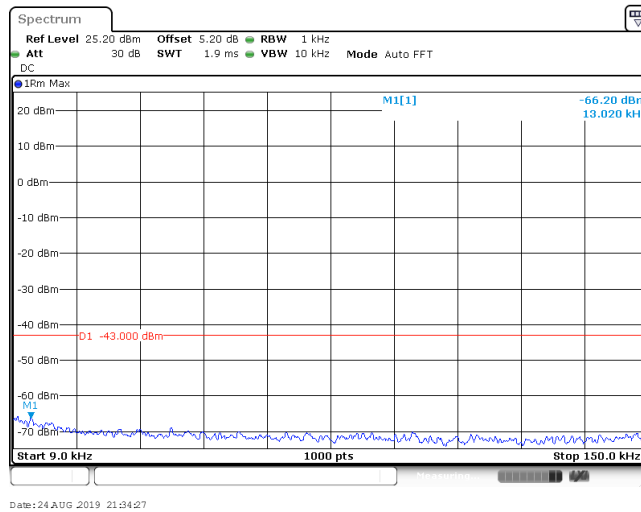


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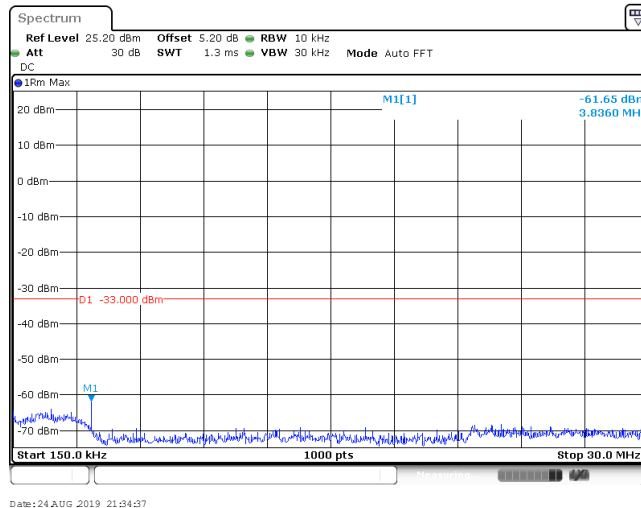
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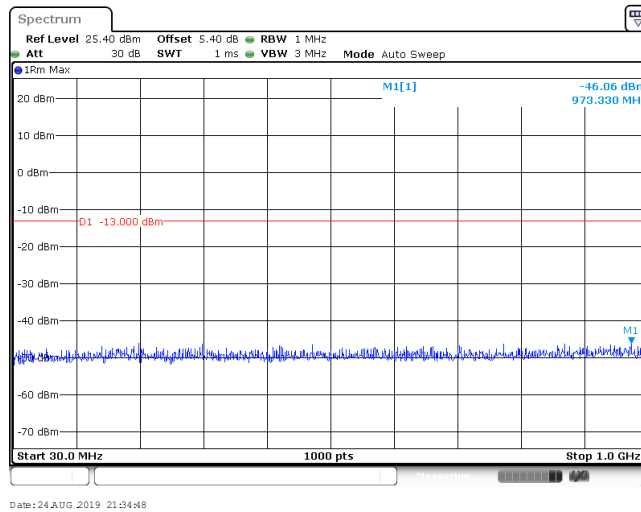
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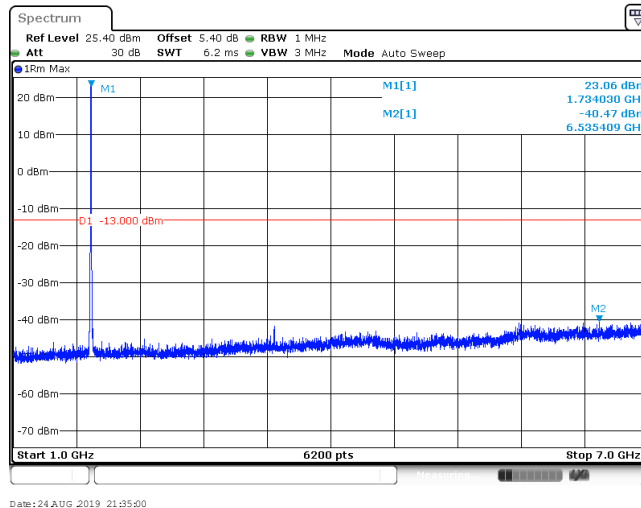
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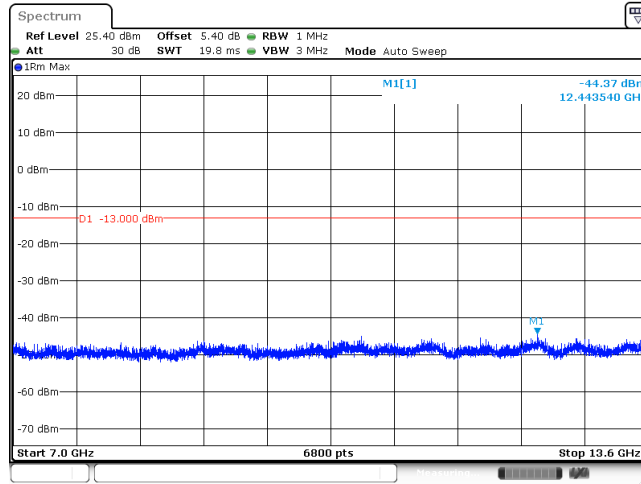


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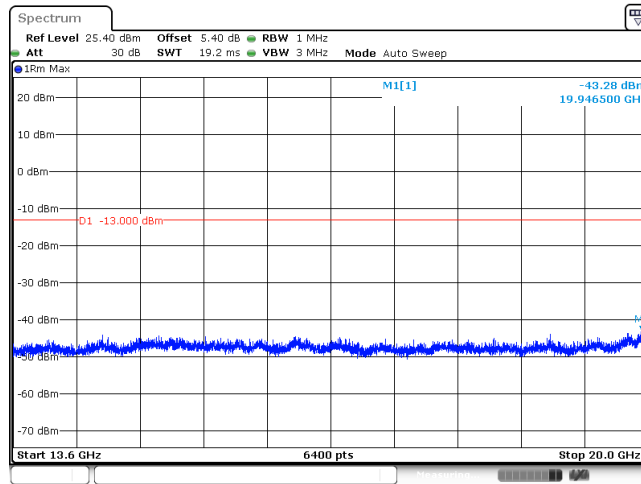
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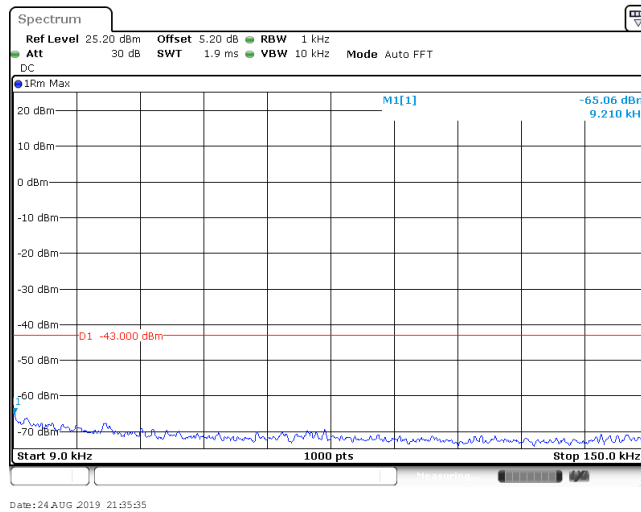


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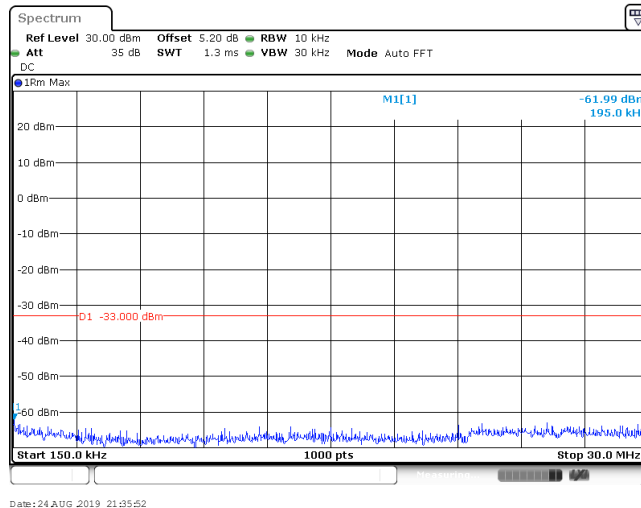
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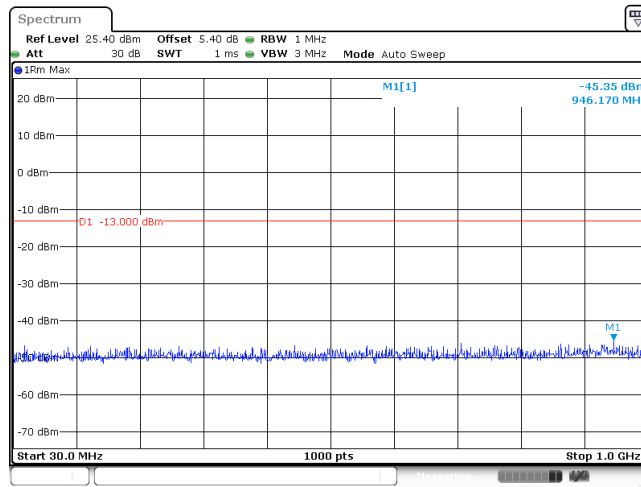
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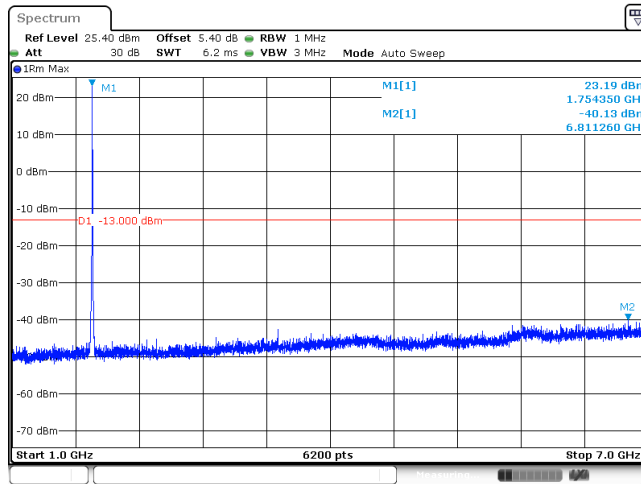


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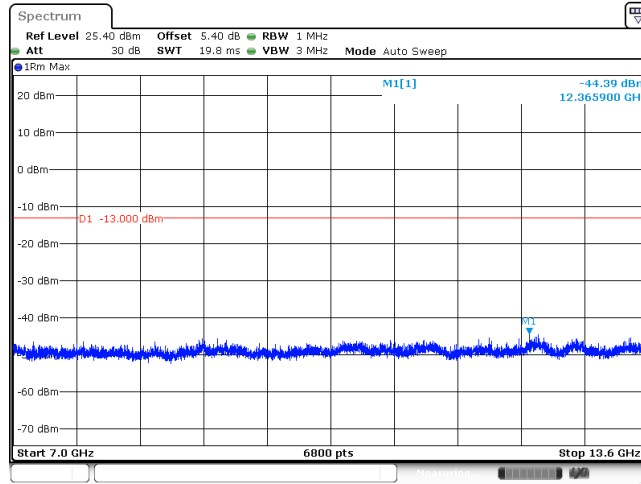
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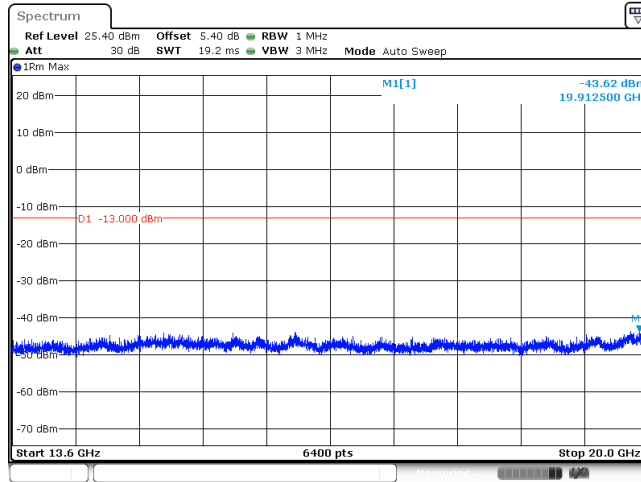


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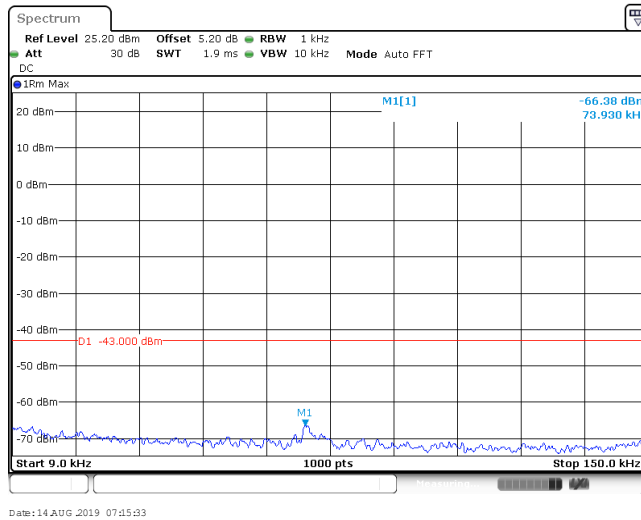


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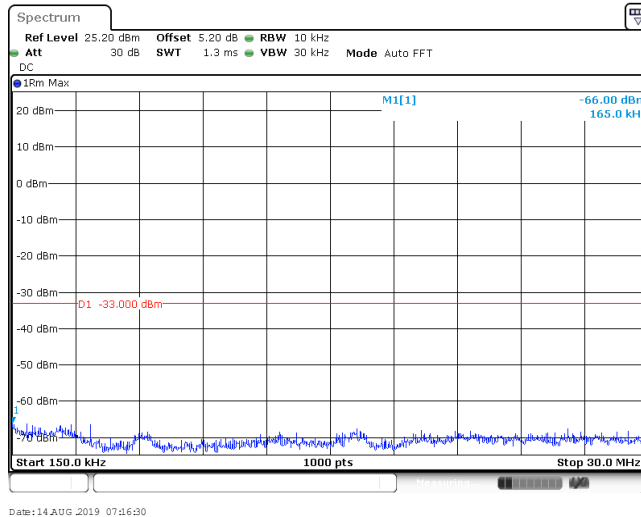


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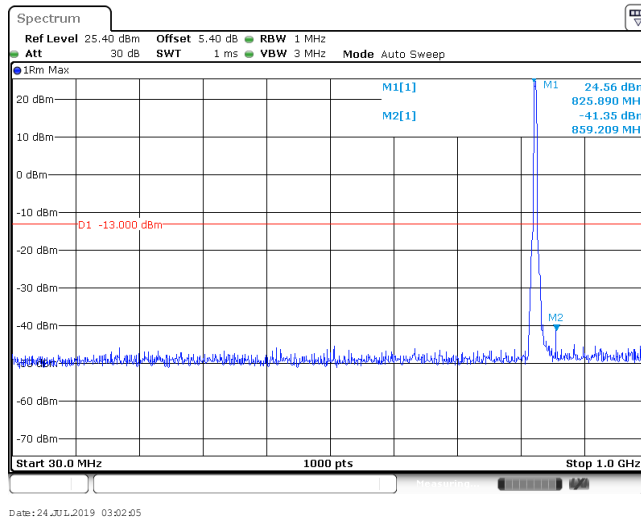
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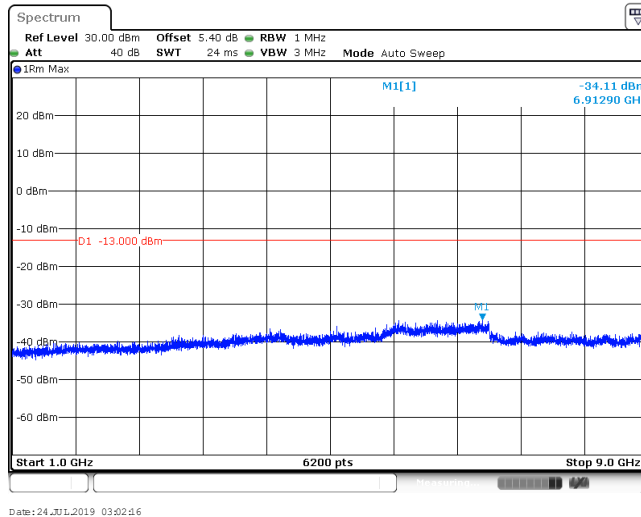
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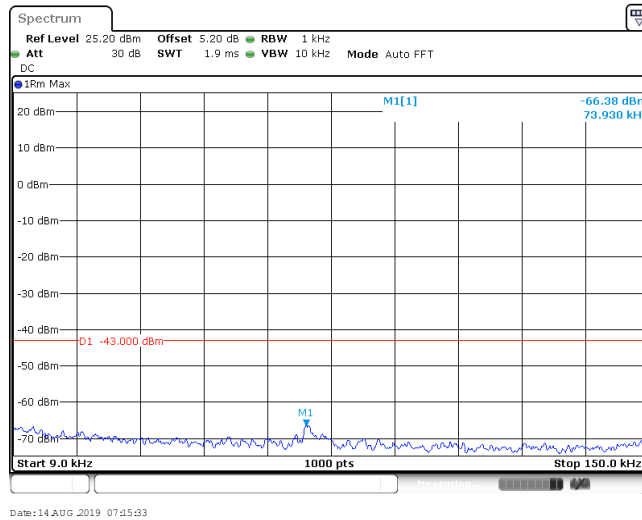
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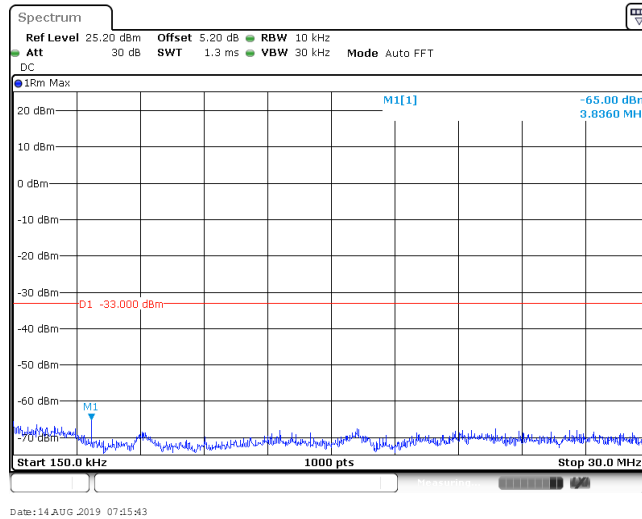
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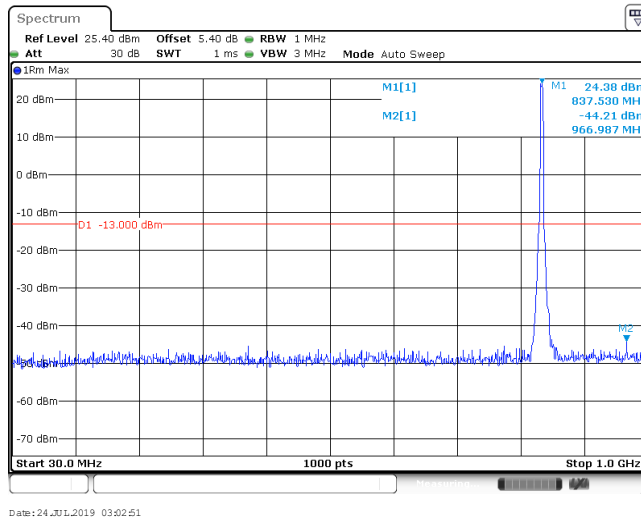
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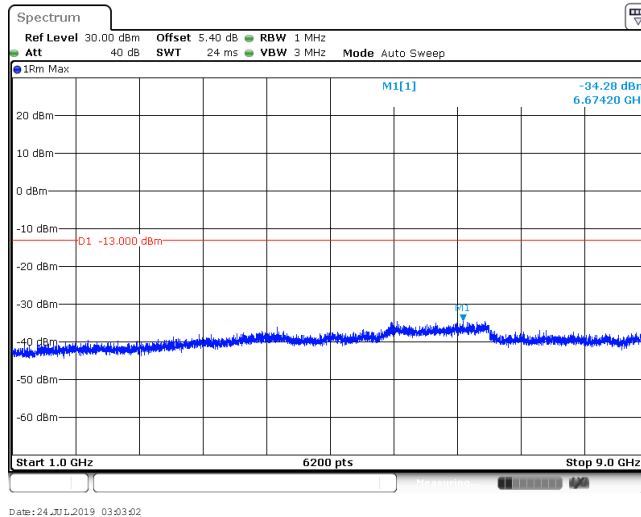
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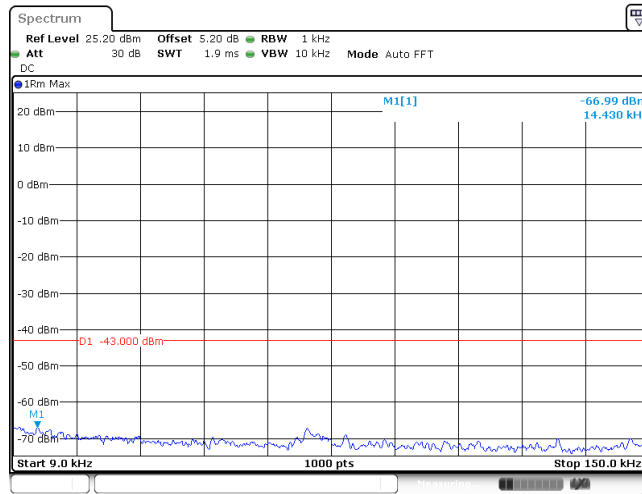


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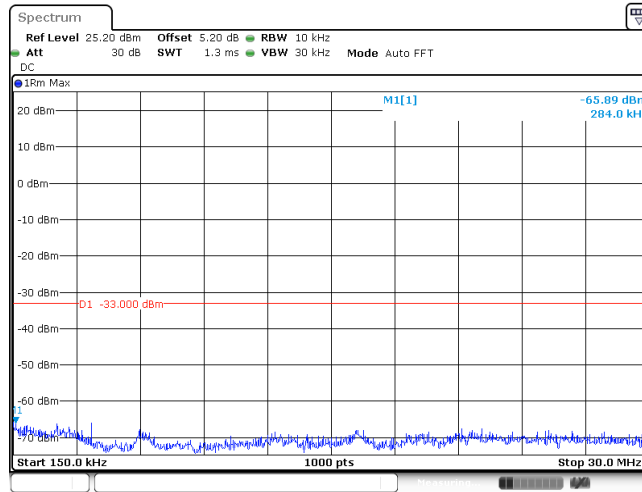
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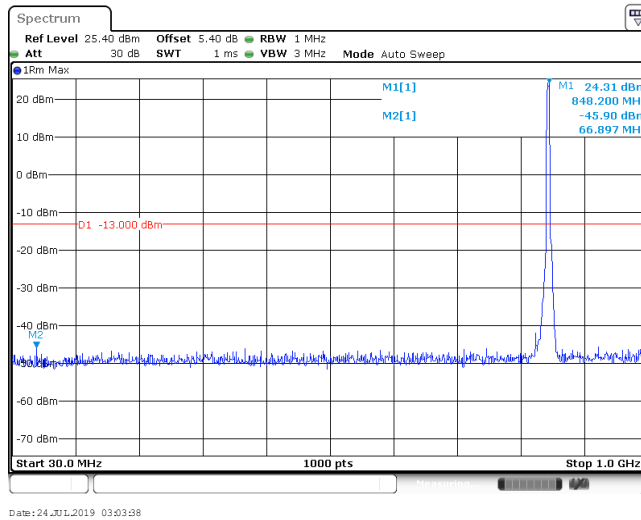


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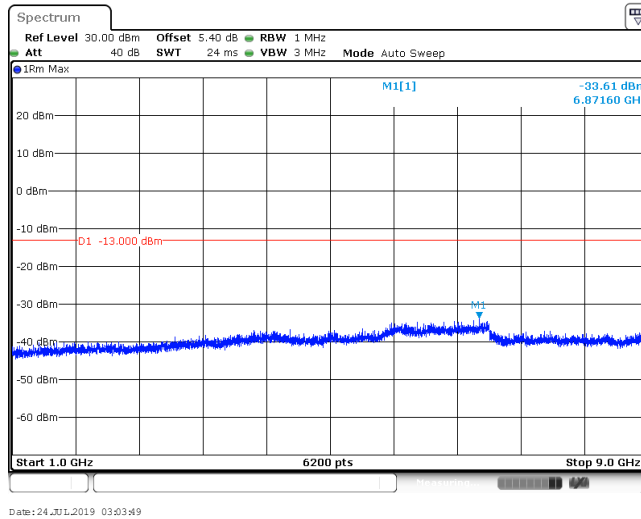
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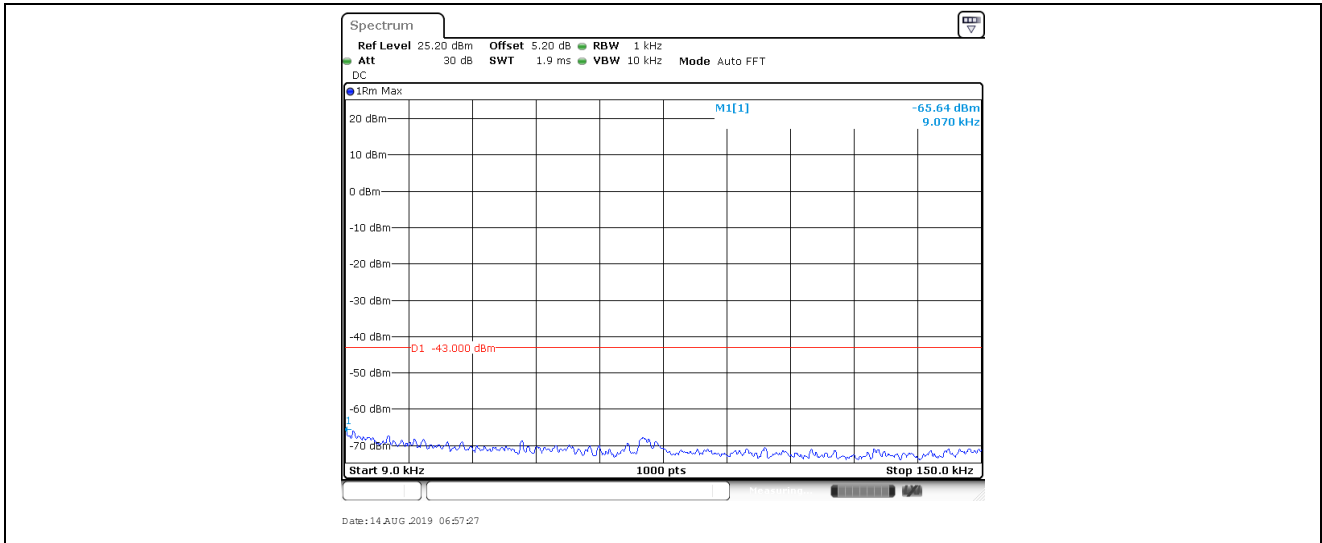
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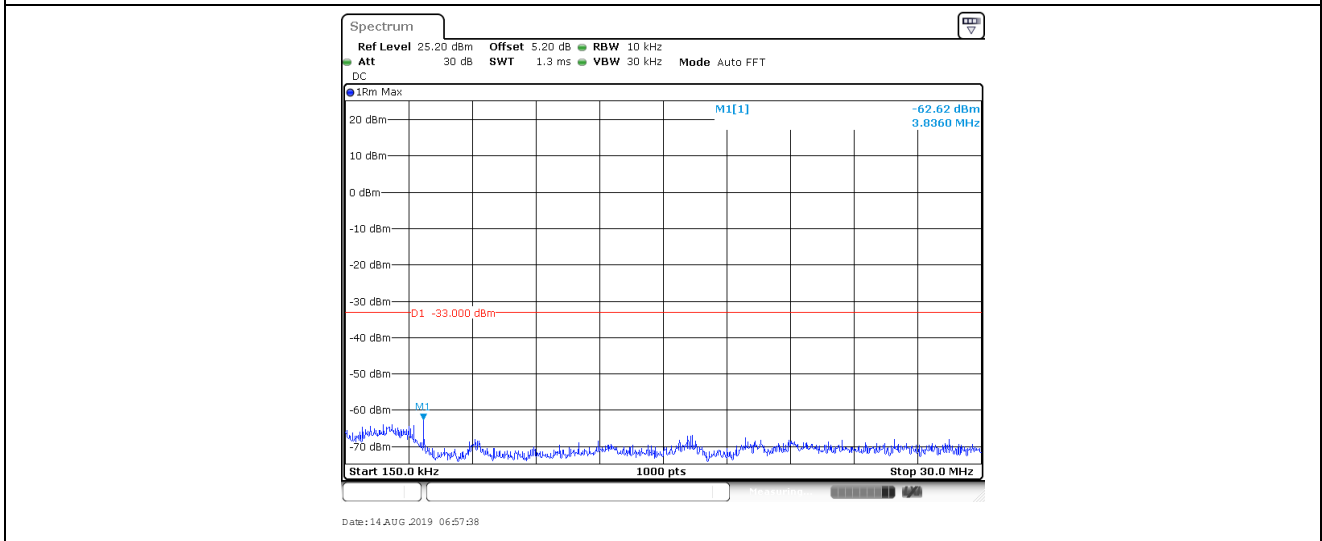
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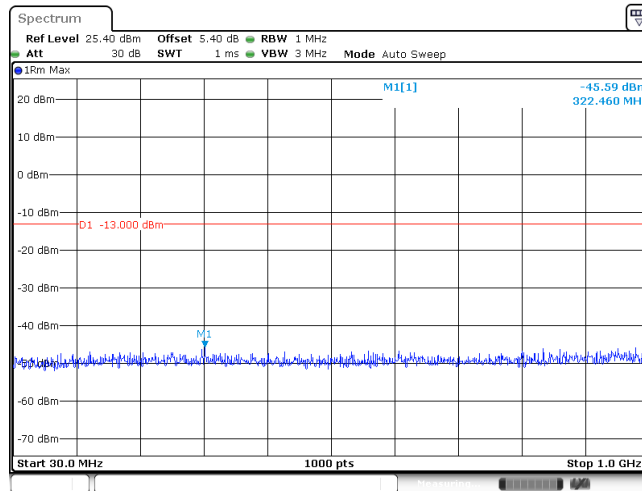
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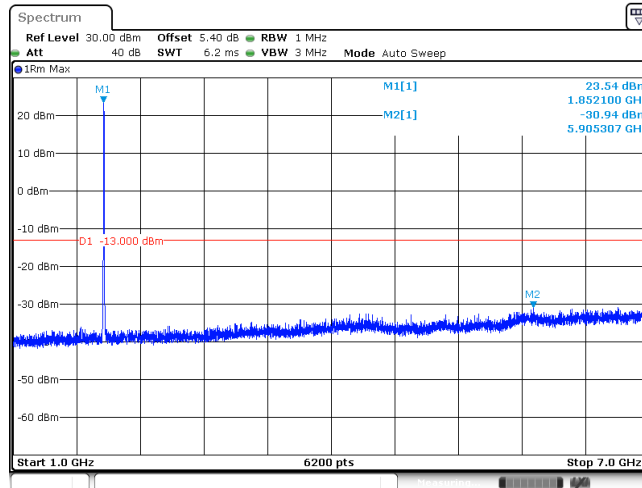


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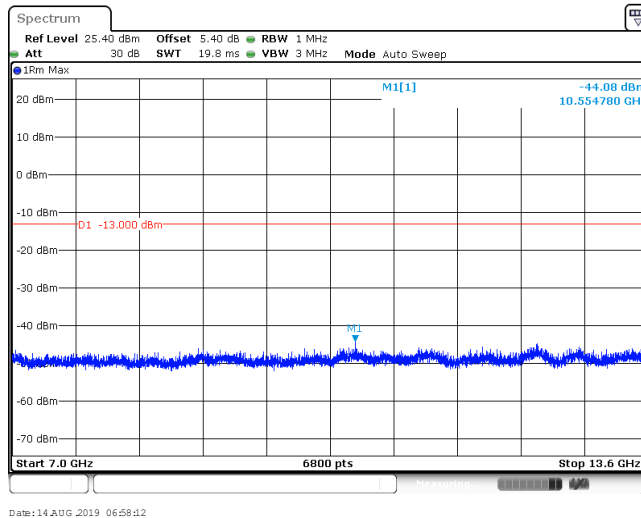


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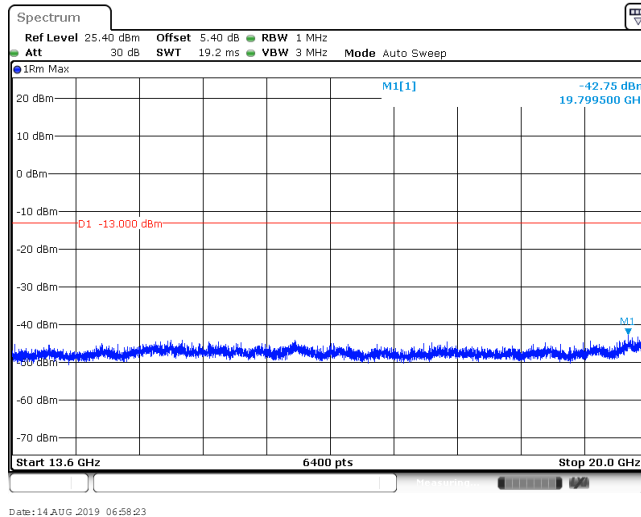
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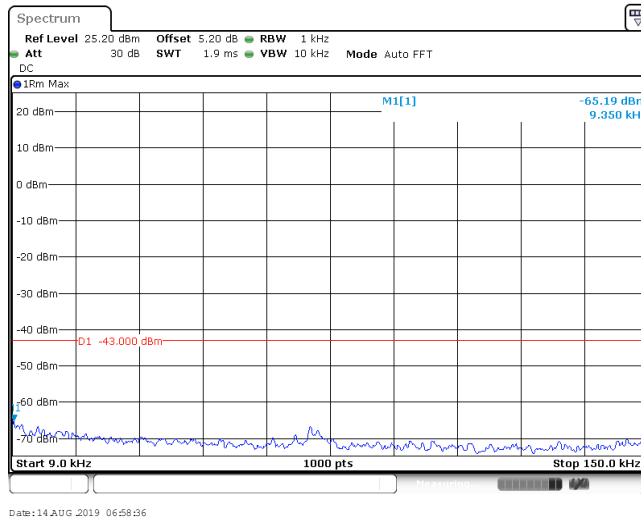
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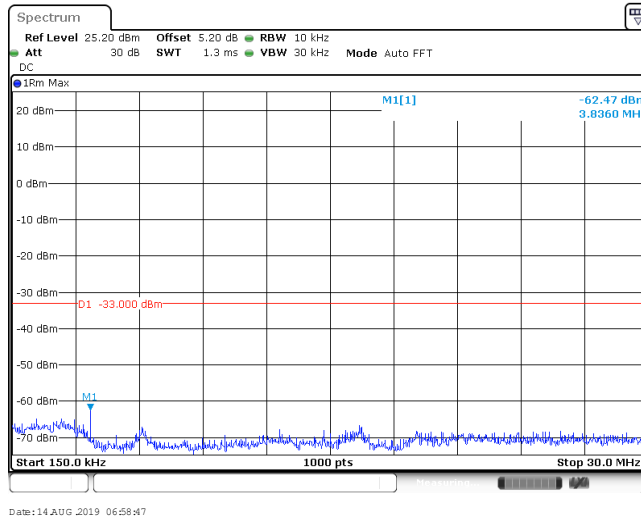
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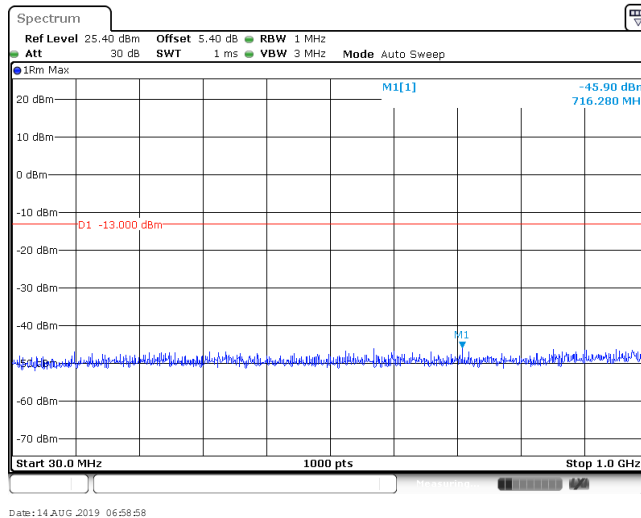
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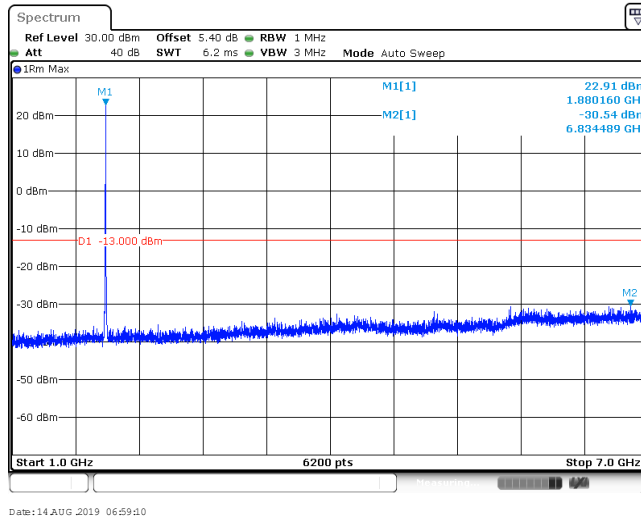
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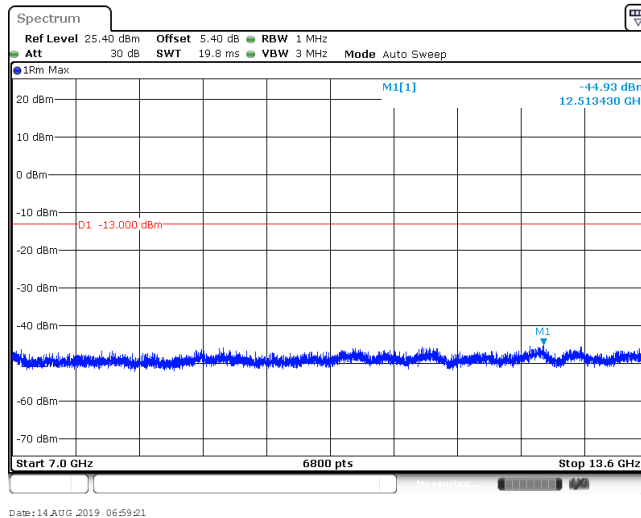
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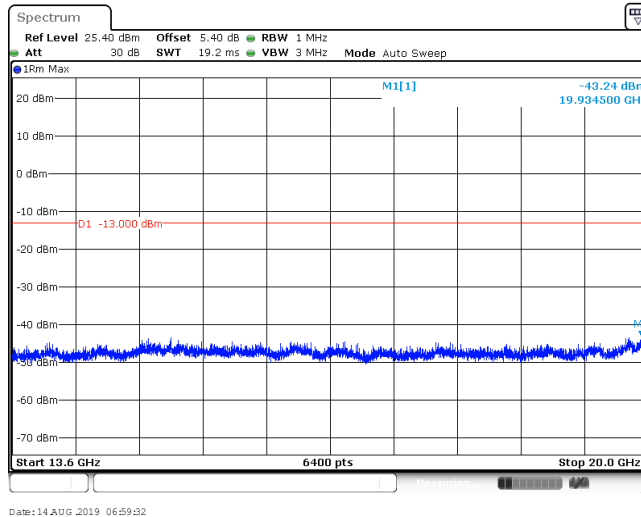
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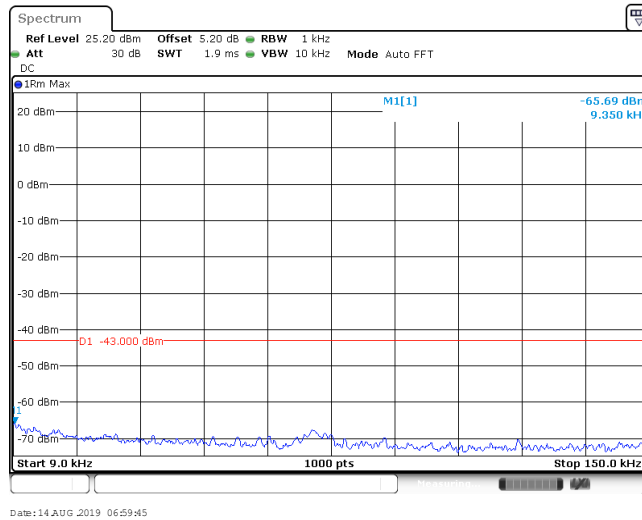
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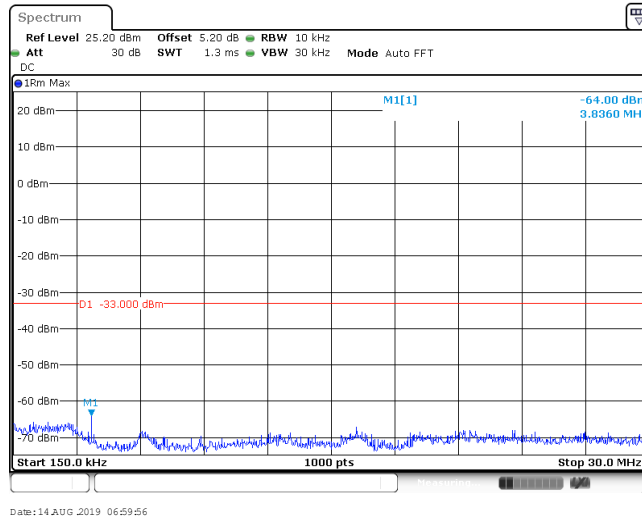
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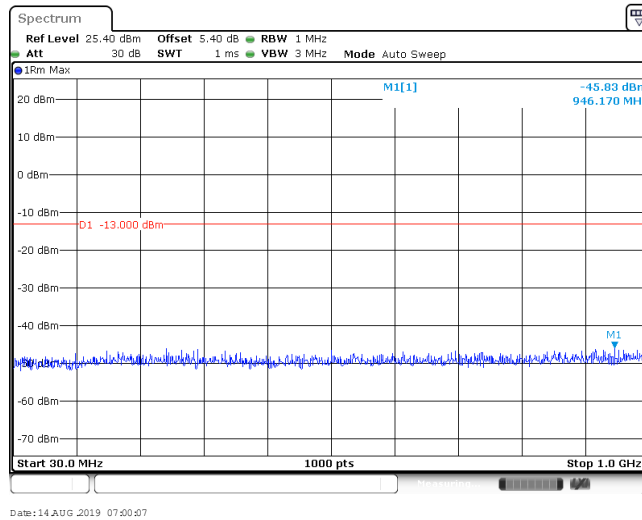
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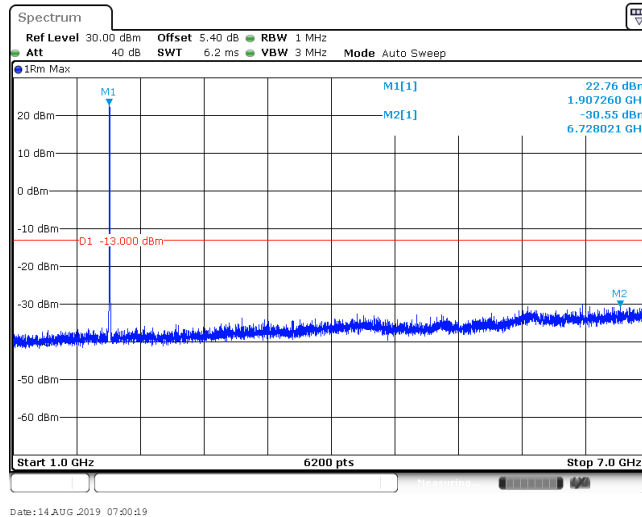
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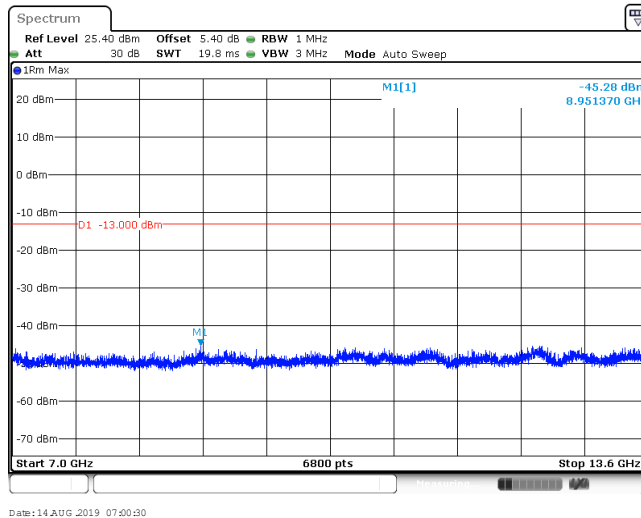
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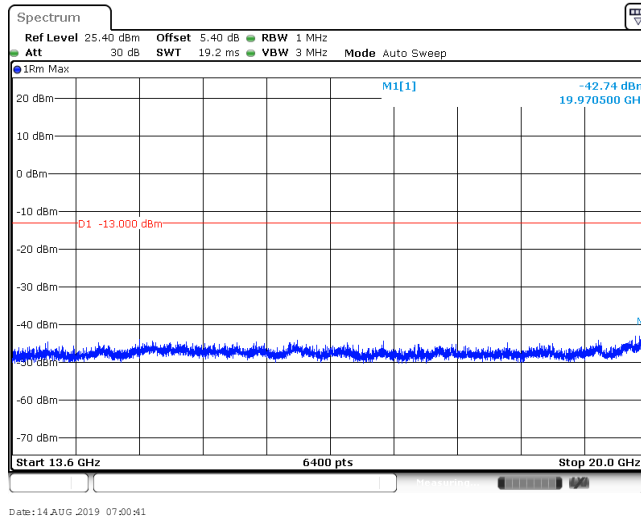
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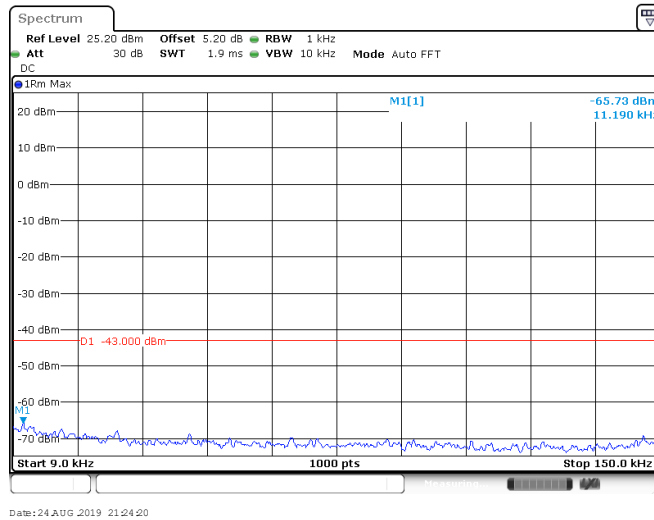
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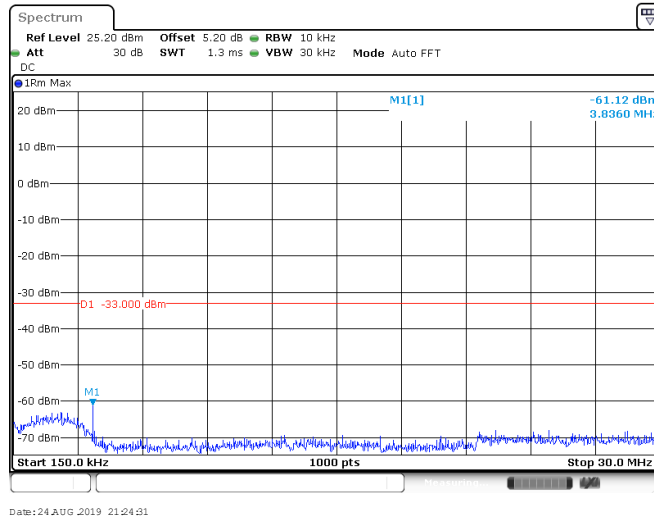
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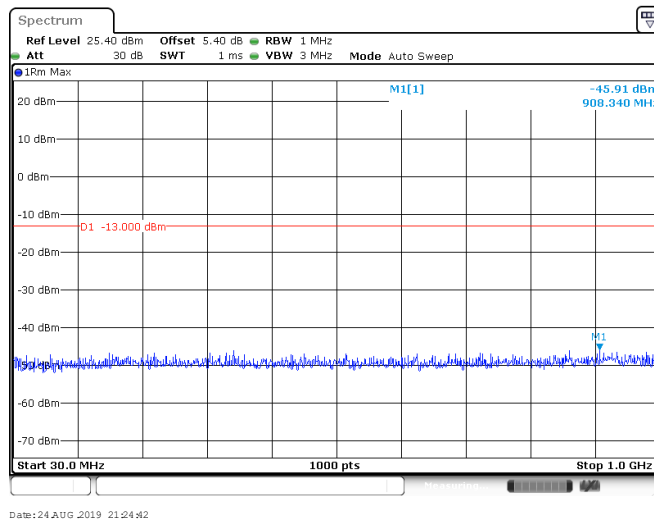


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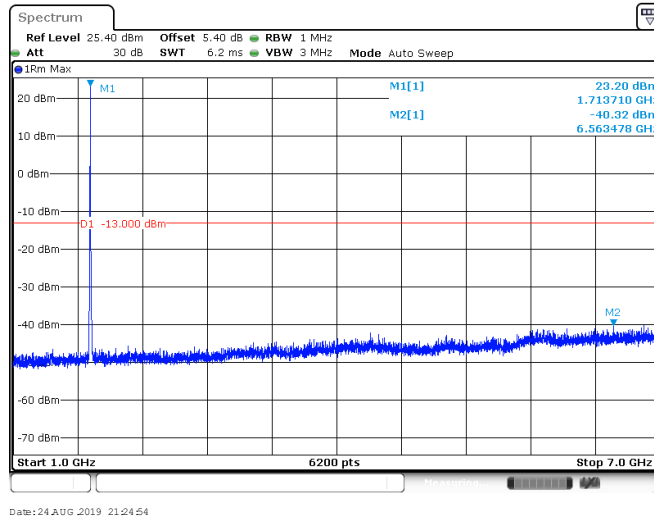


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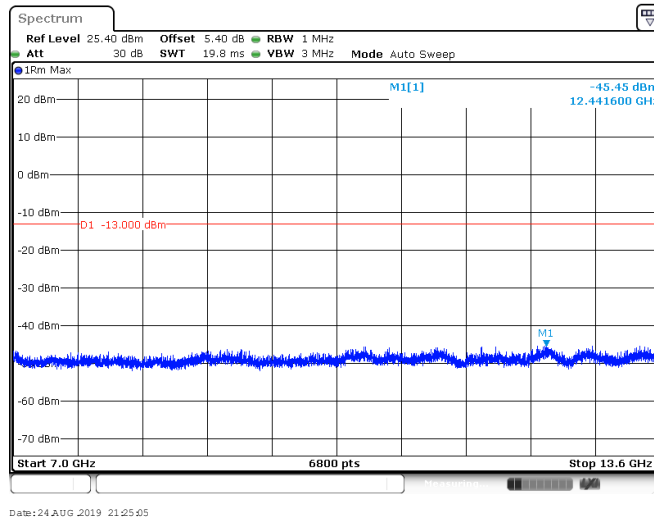


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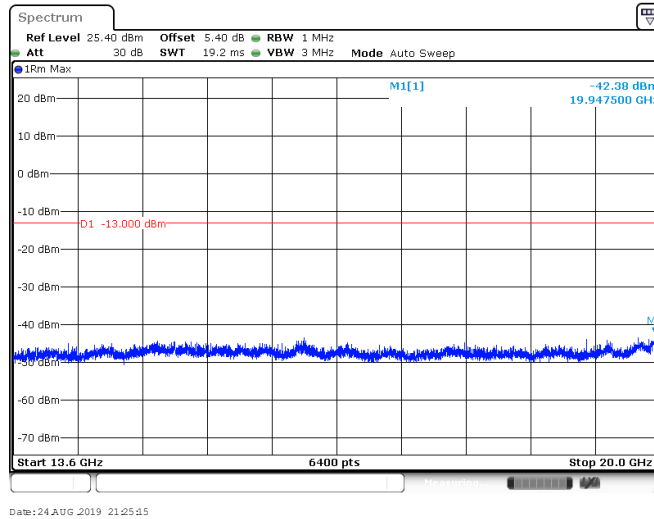


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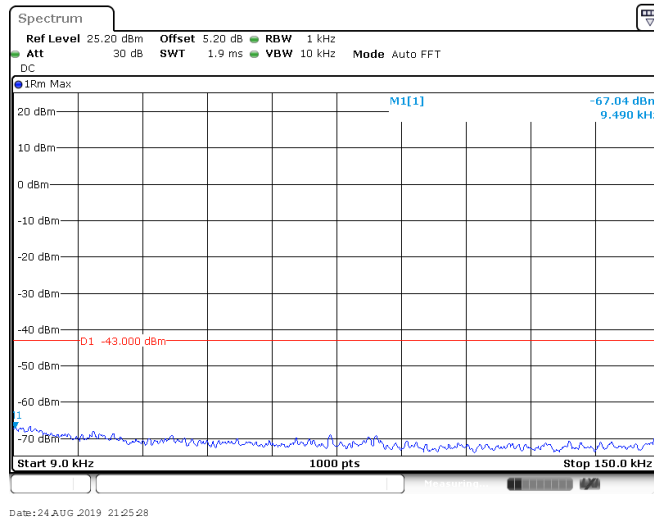
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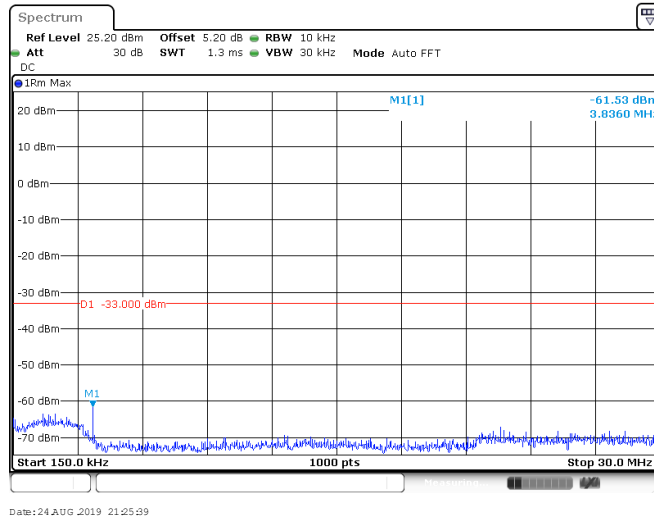
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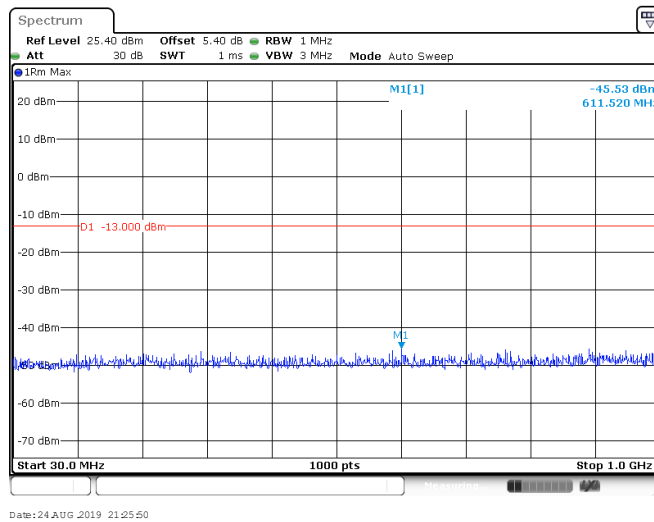
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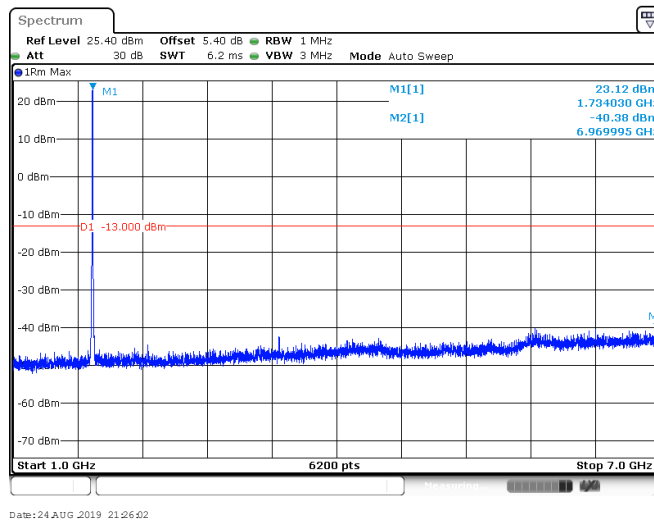


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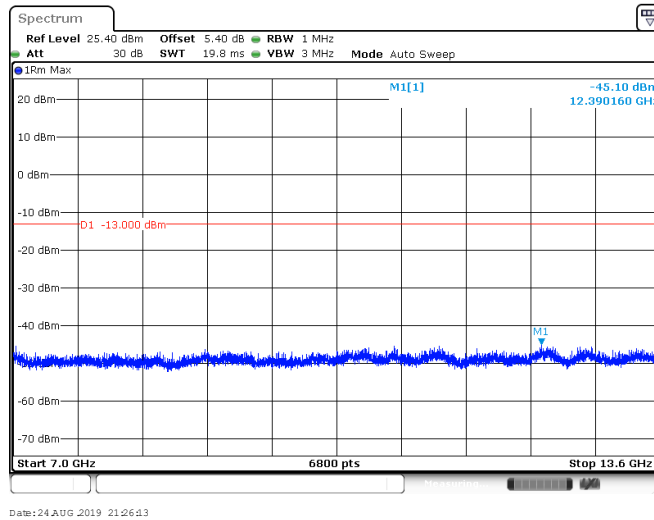
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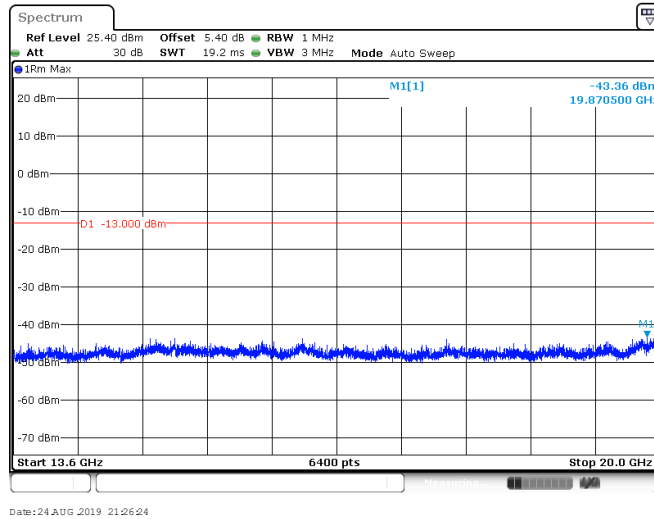
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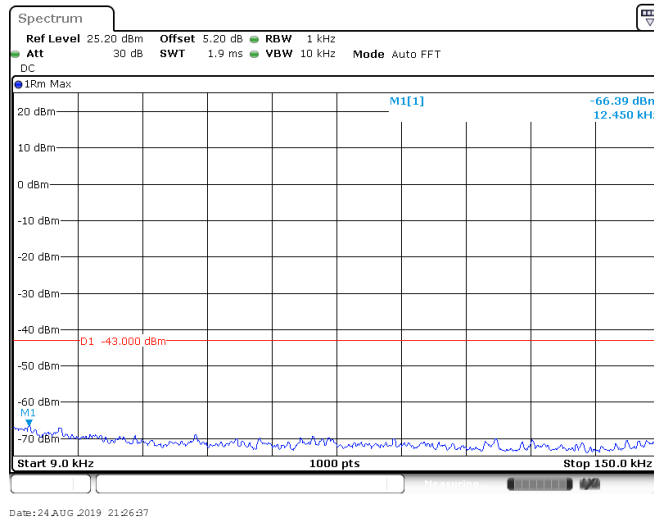


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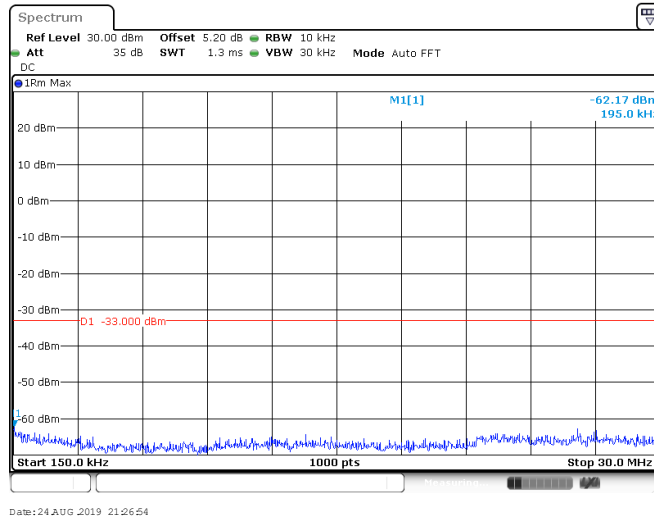
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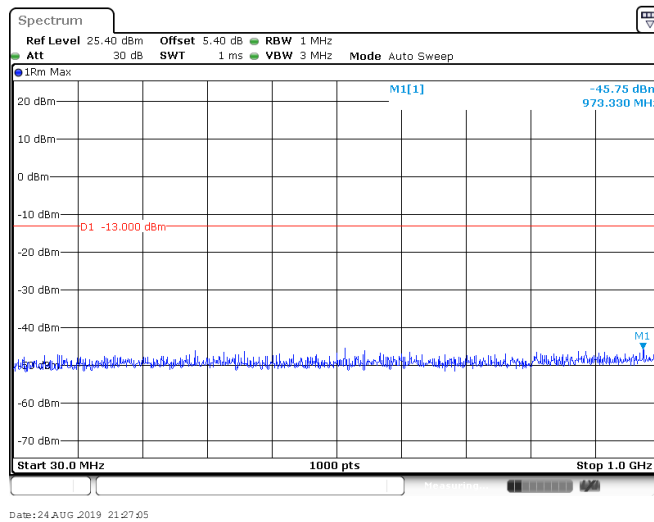


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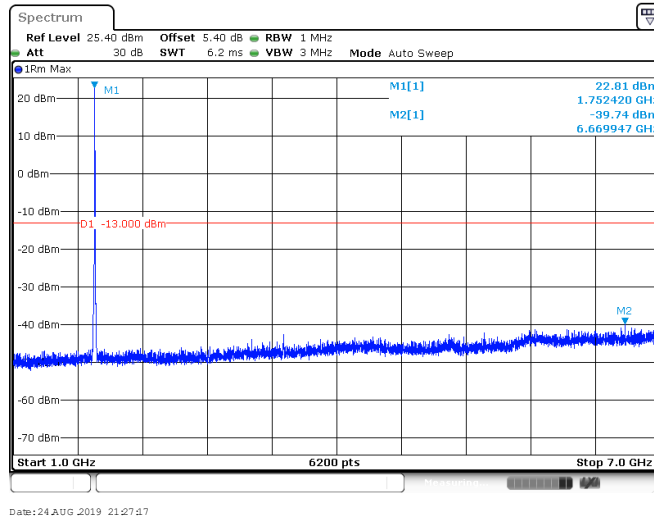
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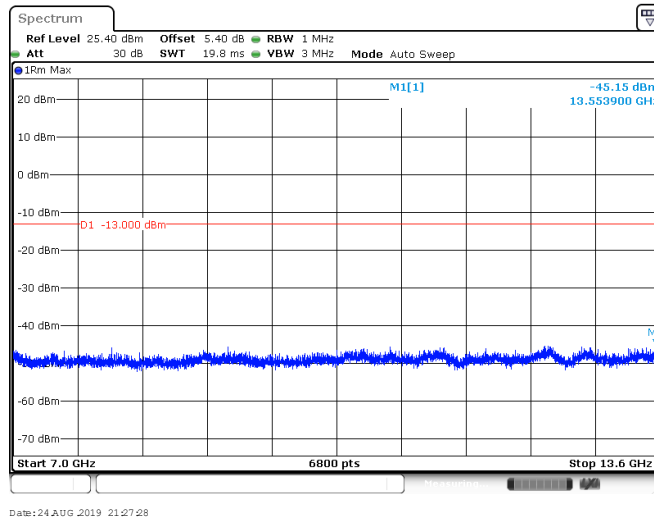


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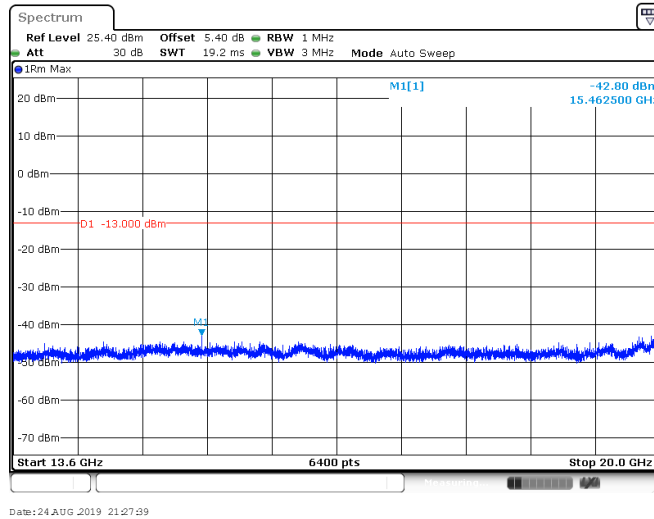
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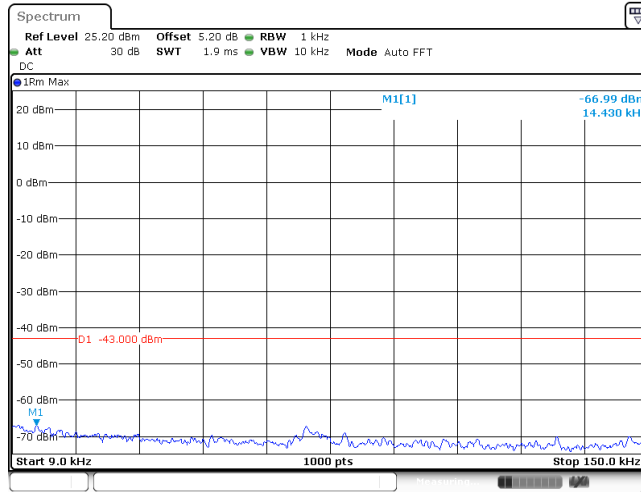


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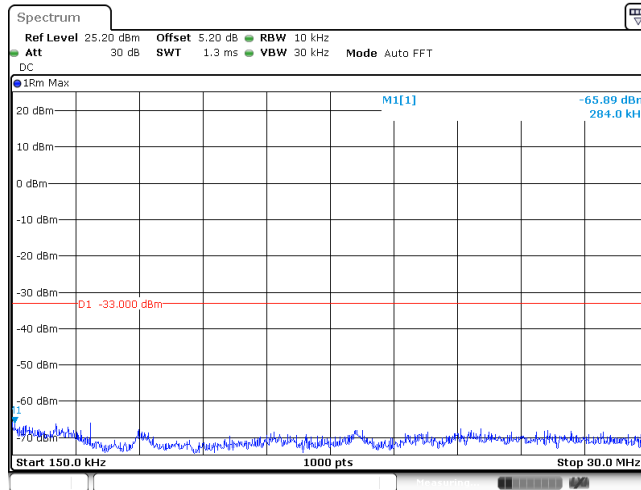
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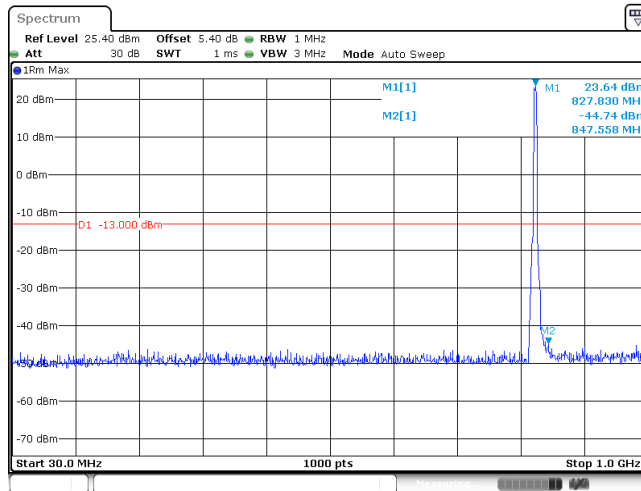


Date: 14 AUG 2019 07:14:57

Band V_4132

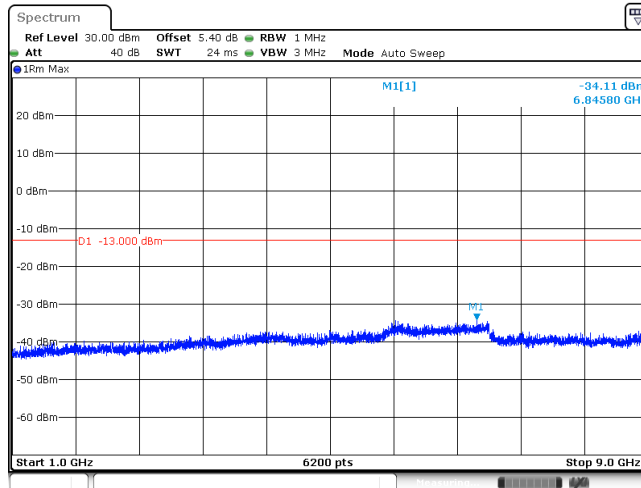


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Date: 14 AUG 2019 07:25:09

Band V_4132

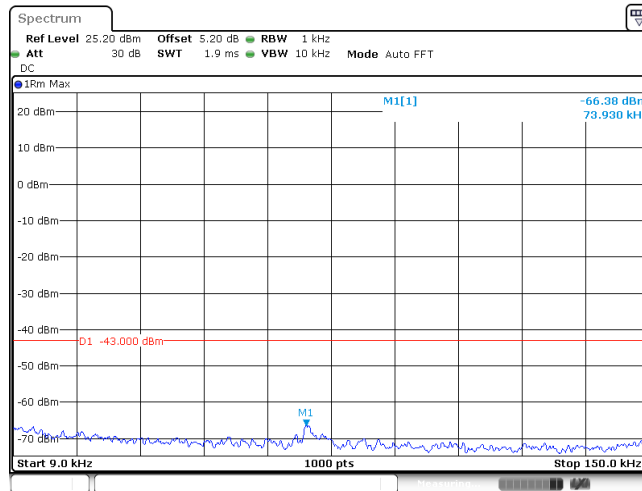


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Band V_4132

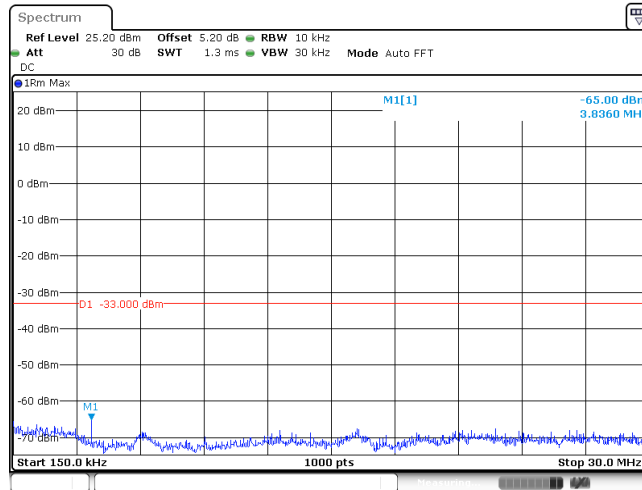


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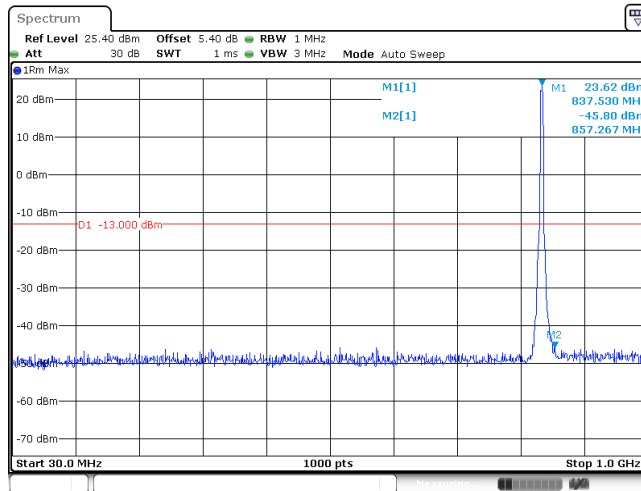


Date: 14 AUG 2019 07:25:43

Band V_4182

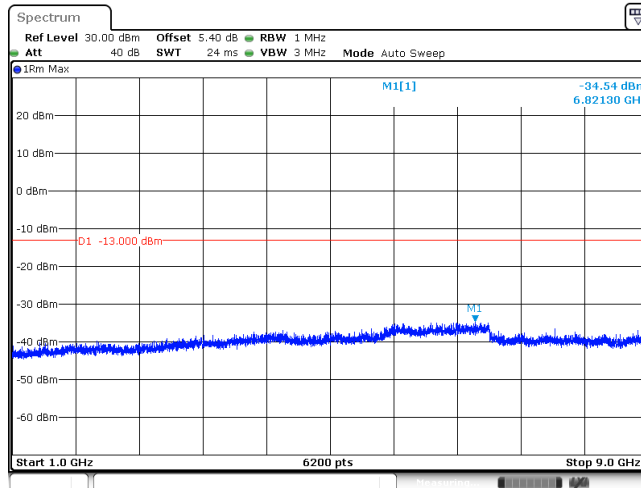


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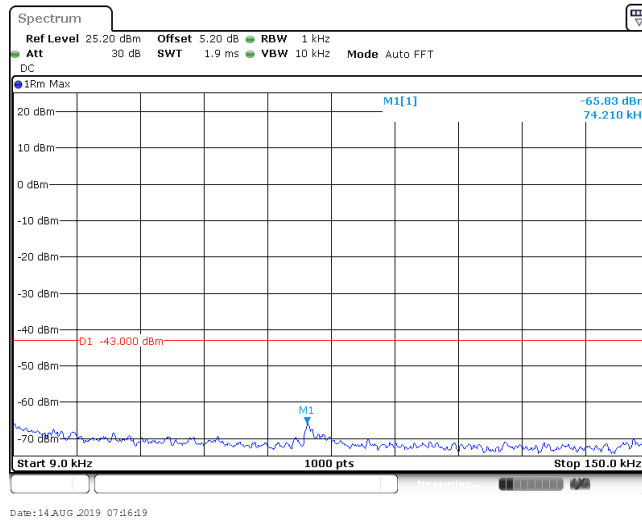


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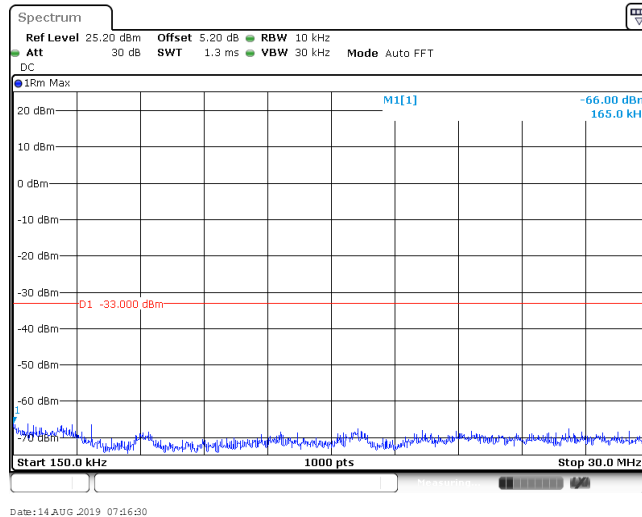
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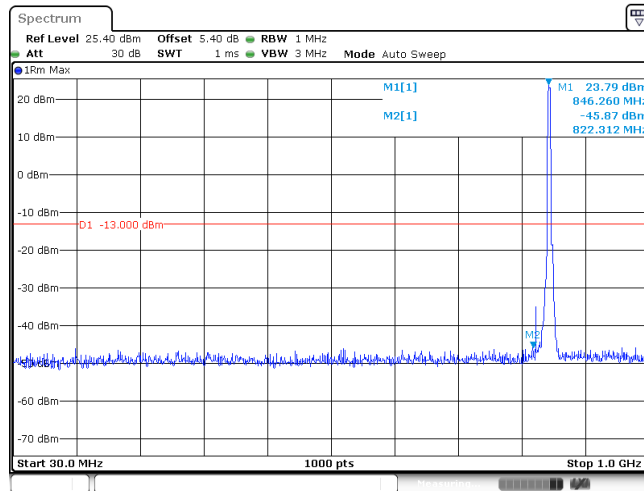
Band V_4233



Band V_4233

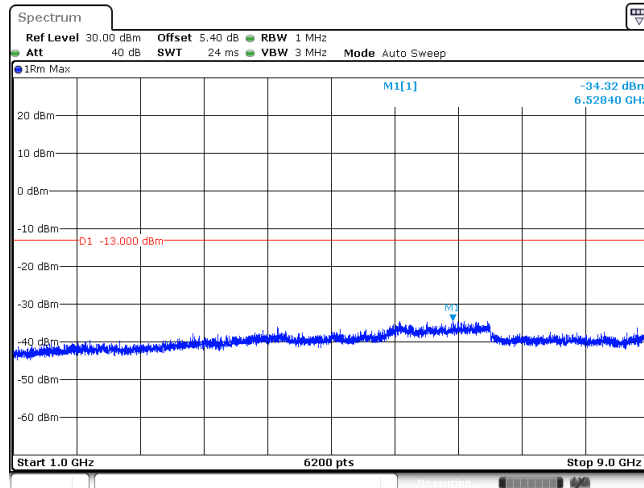


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Date: 14 AUG 2019 07:16:42

Band V_4233



Date: 14 AUG 2019 07:16:53

Band V_4233



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7. Field Strength of Spurious Radiation

7.1. Test BAND = WCDMA Band II

7.1.1. Test Mode = WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.4609	-71.61	-13.00	58.61	Vertical
111.1446	-64.43	-13.00	51.43	Vertical
379.2175	-68.19	-13.00	55.19	Vertical
1358.4717	-47.69	-13.00	34.69	Vertical
8587.6863	-51.89	-13.00	38.89	Vertical
17987.9996	-32.75	-13.00	19.75	Vertical
45.1328	-64.35	-13.00	51.35	Horizontal
103.9662	-72.51	-13.00	59.51	Horizontal
245.3508	-67.86	-13.00	54.86	Horizontal
2701.5403	-35.54	-13.00	22.54	Horizontal
7491.6497	-52.80	-13.00	39.80	Horizontal
16396.4465	-38.36	-13.00	25.36	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.8247	-70.35	-13.00	57.35	Vertical
113.4727	-63.85	-13.00	50.85	Vertical
467.9284	-66.98	-13.00	53.98	Vertical
2701.1402	-36.71	-13.00	23.71	Vertical
8014.1671	-52.25	-13.00	39.25	Vertical
17996.4999	-32.87	-13.00	19.87	Vertical
41.2526	-64.26	-13.00	51.26	Horizontal
101.5896	-72.32	-13.00	59.32	Horizontal
239.3365	-68.33	-13.00	55.33	Horizontal
1500.1000	-46.00	-13.00	33.00	Horizontal
7487.6496	-53.25	-13.00	40.25	Horizontal
17984.4995	-37.55	-13.00	24.55	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.8788	-71.84	-13.00	58.84	Vertical
113.2787	-64.52	-13.00	51.52	Vertical
377.7139	-67.00	-13.00	54.00	Vertical
1411.6823	-47.58	-13.00	34.58	Vertical
5866.5956	-55.28	-13.00	42.28	Vertical
17992.9998	-32.91	-13.00	19.91	Vertical
39.4095	-63.02	-13.00	50.02	Horizontal
231.4306	-67.84	-13.00	54.84	Horizontal
624.7367	-63.29	-13.00	50.29	Horizontal
1468.8938	-47.00	-13.00	34.00	Horizontal
7933.1644	-53.28	-13.00	40.28	Horizontal
16401.9467	-37.76	-13.00	24.76	Horizontal

7.2. Test BAND = WCDMA Band IV

7.2.1. Test Mode =WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.2530	-63.86	-13.00	50.86	Vertical
856.0933	-61.51	-13.00	48.51	Vertical
2710.7421	-36.62	-13.00	23.62	Vertical
7996.6666	-52.20	-13.00	39.20	Vertical
14511.3837	-42.89	-13.00	29.89	Vertical
17999.0000	-32.06	-13.00	19.06	Vertical
43.2897	-64.32	-13.00	51.32	Horizontal
894.6042	-60.19	-13.00	47.19	Horizontal
2704.7409	-35.33	-13.00	22.33	Horizontal
9966.7322	-48.59	-13.00	35.59	Horizontal
16398.9466	-37.47	-13.00	24.47	Horizontal
17951.4984	-37.83	-13.00	24.83	Horizontal



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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.1260	-63.71	-13.00	50.71	Vertical
889.5600	-61.03	-13.00	48.03	Vertical
2691.9384	-36.70	-13.00	23.70	Vertical
7996.6666	-52.15	-13.00	39.15	Vertical
14615.8872	-42.46	-13.00	29.46	Vertical
17995.4999	-32.12	-13.00	19.12	Vertical
44.6477	-64.24	-13.00	51.24	Horizontal
879.9080	-60.58	-13.00	47.58	Horizontal
2699.9400	-35.45	-13.00	22.45	Horizontal
8568.1856	-52.24	-13.00	39.24	Horizontal
16380.9460	-38.11	-13.00	25.11	Horizontal
17060.9687	-39.02	-13.00	26.02	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.1931	-64.29	-13.00	51.29	Vertical
909.2035	-60.64	-13.00	47.64	Vertical
2703.9408	-36.37	-13.00	23.37	Vertical
8031.6677	-52.14	-13.00	39.14	Vertical
14702.8901	-41.44	-13.00	28.44	Vertical
17993.4998	-31.88	-13.00	18.88	Vertical
44.0172	-64.49	-13.00	51.49	Horizontal
837.5169	-61.01	-13.00	48.01	Horizontal
2697.5395	-35.45	-13.00	22.45	Horizontal
7910.6637	-52.77	-13.00	39.77	Horizontal
16392.4464	-37.77	-13.00	24.77	Horizontal
17995.9999	-36.75	-13.00	23.75	Horizontal



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7.3. Test BAND = WCDMA Band V

7.3.1. Test Mode = WCDMA/TM1

7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.5165	-71.56	-13.00	58.56	Vertical
110.6110	-64.26	-13.00	51.26	Vertical
396.9693	-68.05	-13.00	55.05	Vertical
1651.3303	-51.26	-13.00	38.26	Vertical
4705.0568	-57.18	-13.00	44.18	Vertical
17996.4999	-32.50	-13.00	19.50	Vertical
38.8759	-63.44	-13.00	50.44	Horizontal
104.5967	-71.97	-13.00	58.97	Horizontal
244.1382	-68.28	-13.00	55.28	Horizontal
2462.2925	-55.22	-13.00	42.22	Horizontal
5734.5912	-55.22	-13.00	42.22	Horizontal
17999.5000	-37.73	-13.00	24.73	Horizontal

7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.2184	-72.04	-13.00	59.04	Vertical
113.7152	-64.29	-13.00	51.29	Vertical
355.2573	-68.97	-13.00	55.97	Vertical
1670.9342	-53.50	-13.00	40.50	Vertical
2506.3013	-51.34	-13.00	38.34	Vertical
17995.4999	-32.93	-13.00	19.93	Vertical
44.0172	-64.38	-13.00	51.38	Horizontal
106.0033	-72.55	-13.00	59.55	Horizontal
244.7687	-68.29	-13.00	55.29	Horizontal
1671.3343	-57.96	-13.00	44.96	Horizontal
2506.3013	-50.41	-13.00	37.41	Horizontal
17992.9998	-37.24	-13.00	24.24	Horizontal



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7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7704	-71.49	-13.00	58.49	Vertical
110.3200	-64.06	-13.00	51.06	Vertical
331.5881	-68.96	-13.00	55.96	Vertical
1691.3383	-59.20	-13.00	46.20	Vertical
2536.7073	-51.14	-13.00	38.14	Vertical
17999.5000	-33.04	-13.00	20.04	Vertical
40.4280	-64.39	-13.00	51.39	Horizontal
103.5297	-72.02	-13.00	59.02	Horizontal
230.5090	-68.07	-13.00	55.07	Horizontal
2537.1074	-50.52	-13.00	37.52	Horizontal
7936.1645	-52.71	-13.00	39.71	Horizontal
16400.9467	-38.32	-13.00	25.32	Horizontal

Remark:

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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8. Frequency Stability

8.1. Frequency Vs Voltage

BAND	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VL	TN	-9.38	-0.005062	±2.5	PASS
Band II	QPSK	9262	VN	TN	-10.09	-0.005444	±2.5	PASS
Band II	QPSK	9262	VH	TN	-9.86	-0.005325	±2.5	PASS
Band II	QPSK	9400	VL	TN	-13.55	-0.007206	±2.5	PASS
Band II	QPSK	9400	VN	TN	-14.79	-0.007868	±2.5	PASS
Band II	QPSK	9400	VH	TN	-5.54	-0.002949	±2.5	PASS
Band II	QPSK	9538	VL	TN	-10.60	-0.005557	±2.5	PASS
Band II	QPSK	9538	VN	TN	-12.48	-0.006543	±2.5	PASS
Band II	QPSK	9538	VH	TN	-14.41	-0.007552	±2.5	PASS
Band II	16QAM	9262	VL	TN	0.42	0.000225	±2.5	PASS
Band II	16QAM	9262	VN	TN	-10.72	-0.005784	±2.5	PASS
Band II	16QAM	9262	VH	TN	-10.85	-0.005857	±2.5	PASS
Band II	16QAM	9400	VL	TN	-13.89	-0.007388	±2.5	PASS
Band II	16QAM	9400	VN	TN	-10.57	-0.005621	±2.5	PASS
Band II	16QAM	9400	VH	TN	10.07	0.005358	±2.5	PASS
Band II	16QAM	9538	VL	TN	11.27	0.005909	±2.5	PASS
Band II	16QAM	9538	VN	TN	14.27	0.007482	±2.5	PASS
Band II	16QAM	9538	VH	TN	14.98	0.007850	±2.5	PASS
Band IV	QPSK	1312	VL	TN	-2.11	-0.001232	±2.5	PASS
Band IV	QPSK	1312	VN	TN	4.69	0.002740	±2.5	PASS
Band IV	QPSK	1312	VH	TN	-8.15	-0.004758	±2.5	PASS
Band IV	QPSK	1413	VL	TN	1.82	0.001053	±2.5	PASS
Band IV	QPSK	1413	VN	TN	11.61	0.006701	±2.5	PASS
Band IV	QPSK	1413	VH	TN	-5.76	-0.003326	±2.5	PASS
Band IV	QPSK	1513	VL	TN	8.63	0.004921	±2.5	PASS
Band IV	QPSK	1513	VN	TN	10.28	0.005863	±2.5	PASS
Band IV	QPSK	1513	VH	TN	10.02	0.005715	±2.5	PASS
Band IV	16QAM	1312	VL	TN	11.70	0.006832	±2.5	PASS
Band IV	16QAM	1312	VN	TN	12.86	0.007511	±2.5	PASS
Band IV	16QAM	1312	VH	TN	6.81	0.003977	±2.5	PASS
Band IV	16QAM	1413	VL	TN	7.76	0.004478	±2.5	PASS
Band IV	16QAM	1413	VN	TN	-11.07	-0.006387	±2.5	PASS
Band IV	16QAM	1413	VH	TN	9.05	0.005224	±2.5	PASS
Band IV	16QAM	1513	VL	TN	8.87	0.005060	±2.5	PASS
Band IV	16QAM	1513	VN	TN	-2.80	-0.001600	±2.5	PASS
Band IV	16QAM	1513	VH	TN	6.59	0.003762	±2.5	PASS
Band V	QPSK	4132	VL	TN	-7.61	-0.009209	±2.5	PASS
Band V	QPSK	4132	VN	TN	-5.36	-0.006483	±2.5	PASS
Band V	QPSK	4132	VH	TN	-11.96	-0.014471	±2.5	PASS



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Band V	QPSK	4182	VL	TN	-5.21	-0.006234	±2.5	PASS
Band V	QPSK	4182	VN	TN	-8.58	-0.010253	±2.5	PASS
Band V	QPSK	4182	VH	TN	-8.68	-0.010382	±2.5	PASS
Band V	QPSK	4233	VL	TN	-9.60	-0.011338	±2.5	PASS
Band V	QPSK	4233	VN	TN	-6.99	-0.008254	±2.5	PASS
Band V	QPSK	4233	VH	TN	-9.27	-0.010949	±2.5	PASS
Band V	16QAM	4132	VL	TN	7.47	0.009034	±2.5	PASS
Band V	16QAM	4132	VN	TN	6.74	0.008151	±2.5	PASS
Band V	16QAM	4132	VH	TN	-2.15	-0.002597	±2.5	PASS
Band V	16QAM	4182	VL	TN	-4.80	-0.005741	±2.5	PASS
Band V	16QAM	4182	VN	TN	7.65	0.009151	±2.5	PASS
Band V	16QAM	4182	VH	TN	-5.73	-0.006852	±2.5	PASS
Band V	16QAM	4233	VL	TN	-4.10	-0.004845	±2.5	PASS
Band V	16QAM	4233	VN	TN	-0.12	-0.000145	±2.5	PASS
Band V	16QAM	4233	VH	TN	13.53	0.015985	±2.5	PASS

8.2. Frequency Vs Temperature

BAND	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VN	-30	-13.58	-0.007329	±2.5	PASS
Band II	QPSK	9262	VN	-20	-9.61	-0.005190	±2.5	PASS
Band II	QPSK	9262	VN	-10	-12.58	-0.006792	±2.5	PASS
Band II	QPSK	9262	VN	0	-16.14	-0.008715	±2.5	PASS
Band II	QPSK	9262	VN	10	-8.48	-0.004579	±2.5	PASS
Band II	QPSK	9262	VN	20	-9.93	-0.005363	±2.5	PASS
Band II	QPSK	9262	VN	30	-9.03	-0.004877	±2.5	PASS
Band II	QPSK	9262	VN	40	-11.92	-0.006433	±2.5	PASS
Band II	QPSK	9262	VN	50	-13.85	-0.007479	±2.5	PASS
Band II	QPSK	9400	VN	-30	-12.54	-0.006669	±2.5	PASS
Band II	QPSK	9400	VN	-20	-8.88	-0.004721	±2.5	PASS
Band II	QPSK	9400	VN	-10	-14.41	-0.007666	±2.5	PASS
Band II	QPSK	9400	VN	0	-7.45	-0.003964	±2.5	PASS
Band II	QPSK	9400	VN	10	-6.54	-0.003477	±2.5	PASS
Band II	QPSK	9400	VN	20	-10.89	-0.005794	±2.5	PASS
Band II	QPSK	9400	VN	30	-10.71	-0.005695	±2.5	PASS
Band II	QPSK	9400	VN	40	-14.37	-0.007643	±2.5	PASS
Band II	QPSK	9400	VN	50	-14.68	-0.007811	±2.5	PASS
Band II	QPSK	9538	VN	-30	-14.37	-0.007533	±2.5	PASS
Band II	QPSK	9538	VN	-20	-12.32	-0.006460	±2.5	PASS
Band II	QPSK	9538	VN	-10	-10.56	-0.005538	±2.5	PASS
Band II	QPSK	9538	VN	0	-6.95	-0.003645	±2.5	PASS
Band II	QPSK	9538	VN	10	-8.96	-0.004694	±2.5	PASS
Band II	QPSK	9538	VN	20	-6.91	-0.003622	±2.5	PASS
Band II	QPSK	9538	VN	30	-8.60	-0.004507	±2.5	PASS
Band II	QPSK	9538	VN	40	-8.95	-0.004691	±2.5	PASS
Band II	QPSK	9538	VN	50	-11.79	-0.006183	±2.5	PASS
Band II	16QAM	9262	VN	-30	13.83	0.007466	±2.5	PASS
Band II	16QAM	9262	VN	-20	-14.32	-0.007730	±2.5	PASS



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Band II	16QAM	9262	VN	-10	9.07	0.004897	±2.5	PASS
Band II	16QAM	9262	VN	0	-12.12	-0.006542	±2.5	PASS
Band II	16QAM	9262	VN	10	-11.19	-0.006039	±2.5	PASS
Band II	16QAM	9262	VN	20	-6.64	-0.003585	±2.5	PASS
Band II	16QAM	9262	VN	30	14.94	0.008067	±2.5	PASS
Band II	16QAM	9262	VN	40	-11.88	-0.006413	±2.5	PASS
Band II	16QAM	9262	VN	50	-8.75	-0.004725	±2.5	PASS
Band II	16QAM	9400	VN	-30	-4.64	-0.002466	±2.5	PASS
Band II	16QAM	9400	VN	-20	6.73	0.003579	±2.5	PASS
Band II	16QAM	9400	VN	-10	-7.94	-0.004224	±2.5	PASS
Band II	16QAM	9400	VN	0	-6.10	-0.003247	±2.5	PASS
Band II	16QAM	9400	VN	10	12.57	0.006686	±2.5	PASS
Band II	16QAM	9400	VN	20	12.81	0.006812	±2.5	PASS
Band II	16QAM	9400	VN	30	10.28	0.005467	±2.5	PASS
Band II	16QAM	9400	VN	40	14.70	0.007817	±2.5	PASS
Band II	16QAM	9400	VN	50	6.16	0.003278	±2.5	PASS
Band II	16QAM	9538	VN	-30	14.85	0.007786	±2.5	PASS
Band II	16QAM	9538	VN	-20	-3.10	-0.001627	±2.5	PASS
Band II	16QAM	9538	VN	-10	-0.04	-0.000020	±2.5	PASS
Band II	16QAM	9538	VN	0	-4.85	-0.002542	±2.5	PASS
Band II	16QAM	9538	VN	10	4.28	0.002245	±2.5	PASS
Band II	16QAM	9538	VN	20	13.24	0.006940	±2.5	PASS
Band II	16QAM	9538	VN	30	7.39	0.003873	±2.5	PASS
Band II	16QAM	9538	VN	40	7.16	0.003754	±2.5	PASS
Band II	16QAM	9538	VN	50	-14.42	-0.007560	±2.5	PASS
Band IV	QPSK	1312	VN	-30	-1.17	-0.000685	±2.5	PASS
Band IV	QPSK	1312	VN	-20	-8.39	-0.004902	±2.5	PASS
Band IV	QPSK	1312	VN	-10	5.38	0.003139	±2.5	PASS
Band IV	QPSK	1312	VN	0	3.58	0.002093	±2.5	PASS
Band IV	QPSK	1312	VN	10	-1.57	-0.000914	±2.5	PASS
Band IV	QPSK	1312	VN	20	3.99	0.002331	±2.5	PASS
Band IV	QPSK	1312	VN	30	-6.99	-0.004080	±2.5	PASS
Band IV	QPSK	1312	VN	40	0.96	0.000559	±2.5	PASS
Band IV	QPSK	1312	VN	50	1.77	0.001033	±2.5	PASS
Band IV	QPSK	1413	VN	-30	11.98	0.006912	±2.5	PASS
Band IV	QPSK	1413	VN	-20	-4.20	-0.002425	±2.5	PASS
Band IV	QPSK	1413	VN	-10	-11.17	-0.006446	±2.5	PASS
Band IV	QPSK	1413	VN	0	11.98	0.006916	±2.5	PASS
Band IV	QPSK	1413	VN	10	5.79	0.003341	±2.5	PASS
Band IV	QPSK	1413	VN	20	11.86	0.006844	±2.5	PASS
Band IV	QPSK	1413	VN	30	10.27	0.005925	±2.5	PASS
Band IV	QPSK	1413	VN	40	-13.07	-0.007545	±2.5	PASS
Band IV	QPSK	1413	VN	50	4.29	0.002478	±2.5	PASS
Band IV	QPSK	1513	VN	-30	-8.37	-0.004777	±2.5	PASS
Band IV	QPSK	1513	VN	-20	11.13	0.006352	±2.5	PASS
Band IV	QPSK	1513	VN	-10	-7.52	-0.004290	±2.5	PASS
Band IV	QPSK	1513	VN	0	-12.50	-0.007132	±2.5	PASS
Band IV	QPSK	1513	VN	10	6.39	0.003648	±2.5	PASS
Band IV	QPSK	1513	VN	20	14.51	0.008281	±2.5	PASS
Band IV	QPSK	1513	VN	30	-3.15	-0.001798	±2.5	PASS
Band IV	QPSK	1513	VN	40	12.13	0.006923	±2.5	PASS
Band IV	QPSK	1513	VN	50	-10.99	-0.006271	±2.5	PASS



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Band IV	16QAM	1312	VN	-30	9.45	0.005521	±2.5	PASS
Band IV	16QAM	1312	VN	-20	-8.72	-0.005091	±2.5	PASS
Band IV	16QAM	1312	VN	-10	1.54	0.000896	±2.5	PASS
Band IV	16QAM	1312	VN	0	7.90	0.004611	±2.5	PASS
Band IV	16QAM	1312	VN	10	6.72	0.003926	±2.5	PASS
Band IV	16QAM	1312	VN	20	-13.19	-0.007701	±2.5	PASS
Band IV	16QAM	1312	VN	30	1.87	0.001093	±2.5	PASS
Band IV	16QAM	1312	VN	40	-12.60	-0.007359	±2.5	PASS
Band IV	16QAM	1312	VN	50	14.69	0.008579	±2.5	PASS
Band IV	16QAM	1413	VN	-30	-12.53	-0.007233	±2.5	PASS
Band IV	16QAM	1413	VN	-20	12.38	0.007143	±2.5	PASS
Band IV	16QAM	1413	VN	-10	12.03	0.006942	±2.5	PASS
Band IV	16QAM	1413	VN	0	-8.36	-0.004823	±2.5	PASS
Band IV	16QAM	1413	VN	10	-8.26	-0.004770	±2.5	PASS
Band IV	16QAM	1413	VN	20	12.98	0.007492	±2.5	PASS
Band IV	16QAM	1413	VN	30	-6.57	-0.003793	±2.5	PASS
Band IV	16QAM	1413	VN	40	9.73	0.005615	±2.5	PASS
Band IV	16QAM	1413	VN	50	4.64	0.002677	±2.5	PASS
Band IV	16QAM	1513	VN	-30	12.30	0.007018	±2.5	PASS
Band IV	16QAM	1513	VN	-20	2.13	0.001218	±2.5	PASS
Band IV	16QAM	1513	VN	-10	10.69	0.006101	±2.5	PASS
Band IV	16QAM	1513	VN	0	-12.80	-0.007301	±2.5	PASS
Band IV	16QAM	1513	VN	10	14.53	0.008293	±2.5	PASS
Band IV	16QAM	1513	VN	20	-8.25	-0.004708	±2.5	PASS
Band IV	16QAM	1513	VN	30	4.12	0.002349	±2.5	PASS
Band IV	16QAM	1513	VN	40	14.37	0.008202	±2.5	PASS
Band IV	16QAM	1513	VN	50	2.09	0.001194	±2.5	PASS
Band V	QPSK	4132	VN	-30	-10.71	-0.012957	±2.5	PASS
Band V	QPSK	4132	VN	-20	-6.72	-0.008127	±2.5	PASS
Band V	QPSK	4132	VN	-10	-6.54	-0.007911	±2.5	PASS
Band V	QPSK	4132	VN	0	-12.75	-0.015423	±2.5	PASS
Band V	QPSK	4132	VN	10	-7.89	-0.009547	±2.5	PASS
Band V	QPSK	4132	VN	20	-13.15	-0.015917	±2.5	PASS
Band V	QPSK	4132	VN	30	-8.99	-0.010879	±2.5	PASS
Band V	QPSK	4132	VN	40	-14.00	-0.016938	±2.5	PASS
Band V	QPSK	4132	VN	50	-10.43	-0.012619	±2.5	PASS
Band V	QPSK	4182	VN	-30	-6.19	-0.007406	±2.5	PASS
Band V	QPSK	4182	VN	-20	-6.18	-0.007389	±2.5	PASS
Band V	QPSK	4182	VN	-10	-13.23	-0.015812	±2.5	PASS
Band V	QPSK	4182	VN	0	-10.63	-0.012708	±2.5	PASS
Band V	QPSK	4182	VN	10	-8.36	-0.009997	±2.5	PASS
Band V	QPSK	4182	VN	20	-7.87	-0.009415	±2.5	PASS
Band V	QPSK	4182	VN	30	-9.32	-0.011143	±2.5	PASS
Band V	QPSK	4182	VN	40	-5.26	-0.006285	±2.5	PASS
Band V	QPSK	4182	VN	50	-12.50	-0.014940	±2.5	PASS
Band V	QPSK	4233	VN	-30	-13.41	-0.015841	±2.5	PASS
Band V	QPSK	4233	VN	-20	-8.08	-0.009547	±2.5	PASS
Band V	QPSK	4233	VN	-10	-11.44	-0.013518	±2.5	PASS
Band V	QPSK	4233	VN	0	-8.04	-0.009496	±2.5	PASS
Band V	QPSK	4233	VN	10	-9.53	-0.011253	±2.5	PASS
Band V	QPSK	4233	VN	20	-9.09	-0.010738	±2.5	PASS
Band V	QPSK	4233	VN	30	-11.33	-0.013383	±2.5	PASS



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Band V	QPSK	4233	VN	40	-8.78	-0.010375	±2.5	PASS
Band V	QPSK	4233	VN	50	-4.76	-0.005618	±2.5	PASS
Band V	16QAM	4132	VN	-30	10.11	0.012240	±2.5	PASS
Band V	16QAM	4132	VN	-20	-11.07	-0.013391	±2.5	PASS
Band V	16QAM	4132	VN	-10	12.40	0.015008	±2.5	PASS
Band V	16QAM	4132	VN	0	-2.95	-0.003572	±2.5	PASS
Band V	16QAM	4132	VN	10	6.61	0.007996	±2.5	PASS
Band V	16QAM	4132	VN	20	10.81	0.013081	±2.5	PASS
Band V	16QAM	4132	VN	30	-13.96	-0.016891	±2.5	PASS
Band V	16QAM	4132	VN	40	8.37	0.010129	±2.5	PASS
Band V	16QAM	4132	VN	50	4.45	0.005381	±2.5	PASS
Band V	16QAM	4182	VN	-30	9.56	0.011433	±2.5	PASS
Band V	16QAM	4182	VN	-20	11.93	0.014268	±2.5	PASS
Band V	16QAM	4182	VN	-10	11.60	0.013864	±2.5	PASS
Band V	16QAM	4182	VN	0	-12.97	-0.015509	±2.5	PASS
Band V	16QAM	4182	VN	10	9.13	0.010915	±2.5	PASS
Band V	16QAM	4182	VN	20	13.64	0.016311	±2.5	PASS
Band V	16QAM	4182	VN	30	5.08	0.006075	±2.5	PASS
Band V	16QAM	4182	VN	40	6.18	0.007384	±2.5	PASS
Band V	16QAM	4182	VN	50	10.97	0.013110	±2.5	PASS
Band V	16QAM	4233	VN	-30	-12.50	-0.014760	±2.5	PASS
Band V	16QAM	4233	VN	-20	-1.08	-0.001272	±2.5	PASS
Band V	16QAM	4233	VN	-10	-6.12	-0.007232	±2.5	PASS
Band V	16QAM	4233	VN	0	1.87	0.002210	±2.5	PASS
Band V	16QAM	4233	VN	10	12.89	0.015223	±2.5	PASS
Band V	16QAM	4233	VN	20	4.64	0.005485	±2.5	PASS
Band V	16QAM	4233	VN	30	-0.20	-0.000237	±2.5	PASS
Band V	16QAM	4233	VN	40	-8.15	-0.009630	±2.5	PASS
Band V	16QAM	4233	VN	50	-1.49	-0.001759	±2.5	PASS

The End



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