



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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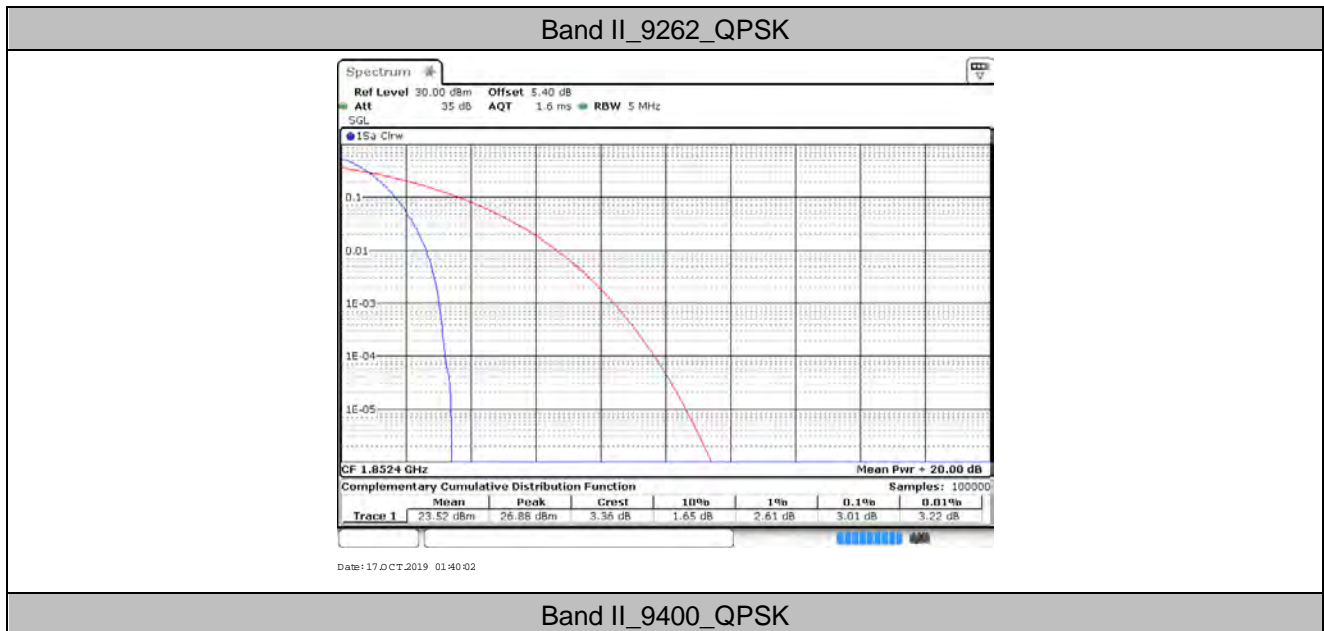


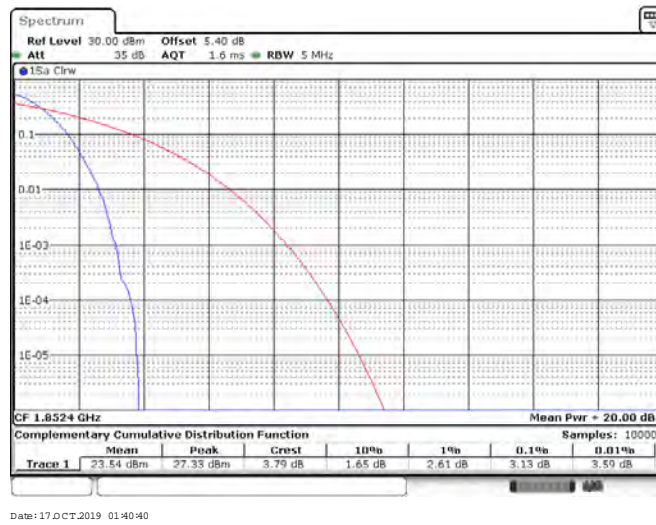
2. Peak-to-Average Ratio(CCDF)

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

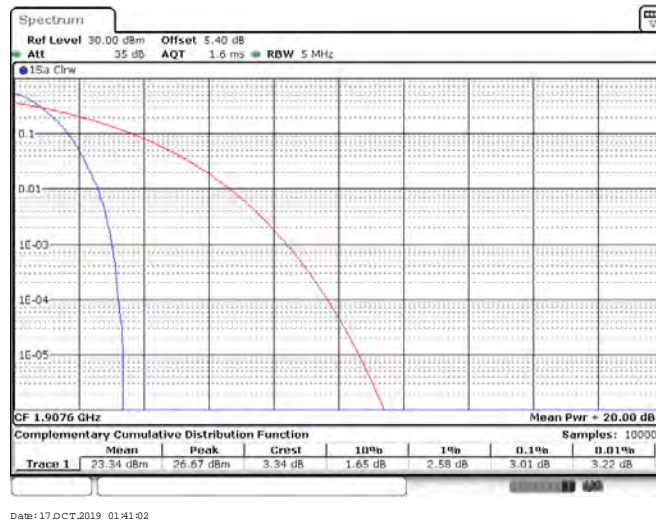
2.2. Test Plots





Date: 17 OCT 2019 01:40:40

Band II_9538_QPSK

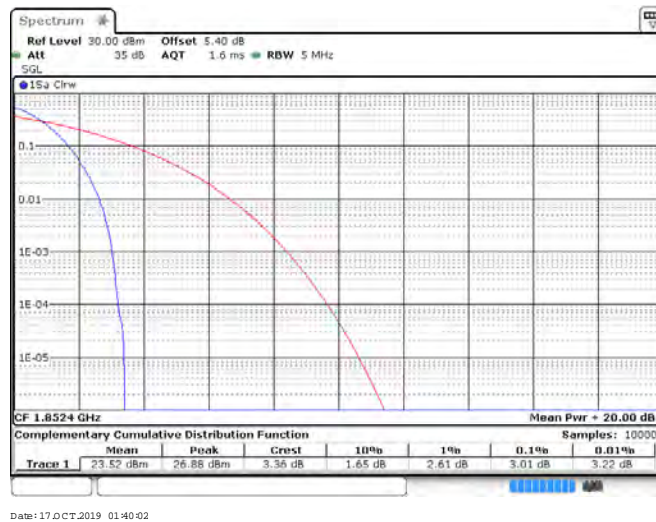


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Band II_9262_16QAM



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Date: 17 OCT 2019 01:40:02

Band II_9400_16QAM

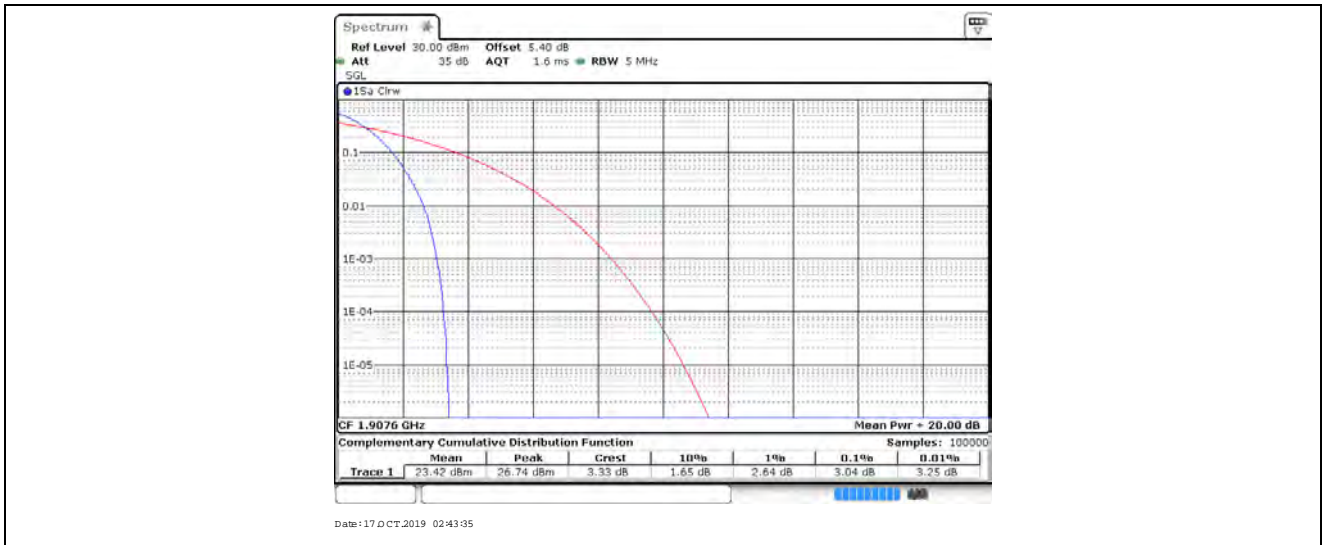


Date: 17 OCT 2019 02:43:23

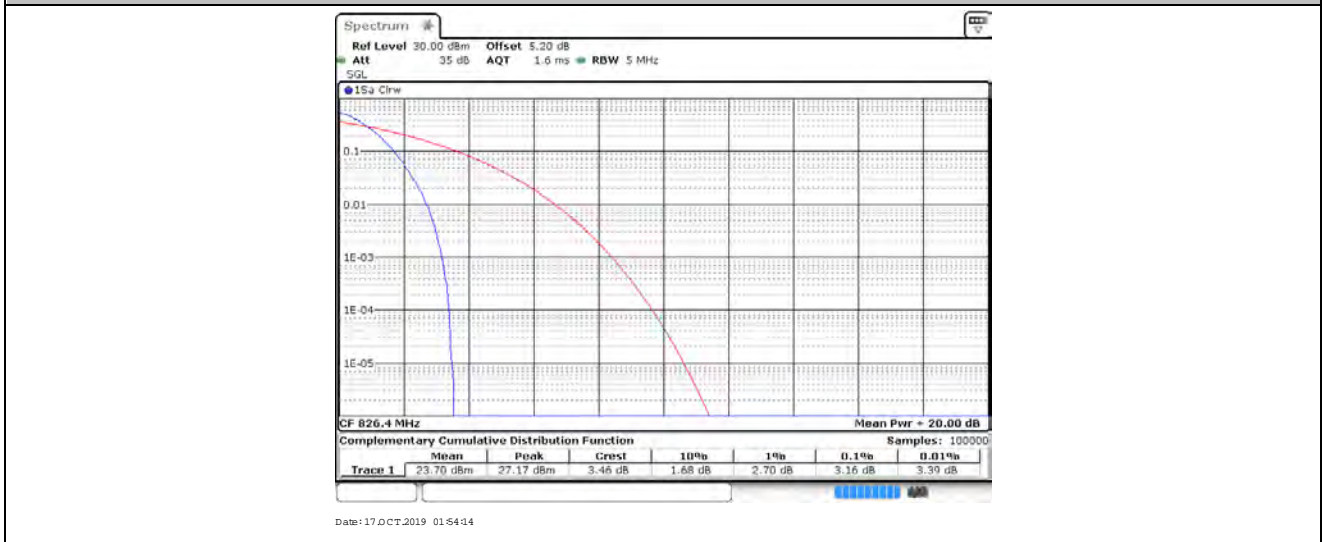
Band II_9538_16QAM



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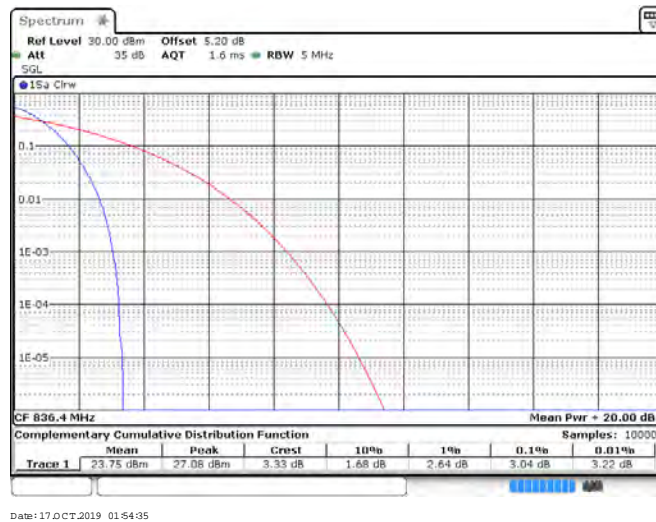
Band V_4132_QPSK



Band V_4182_QPSK

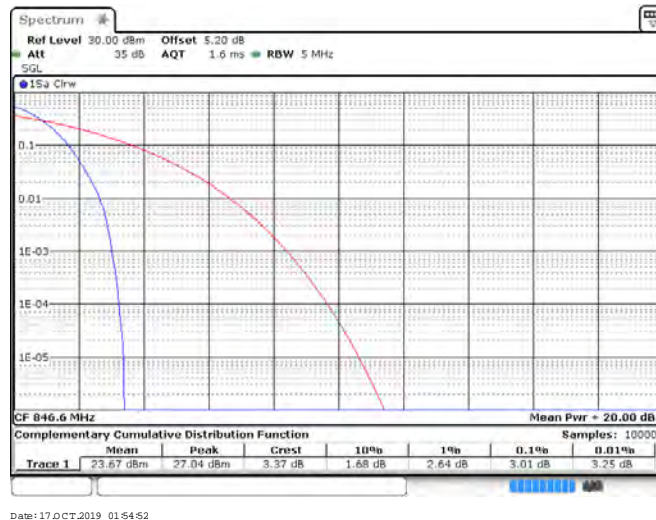


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Band V_4233_QPSK

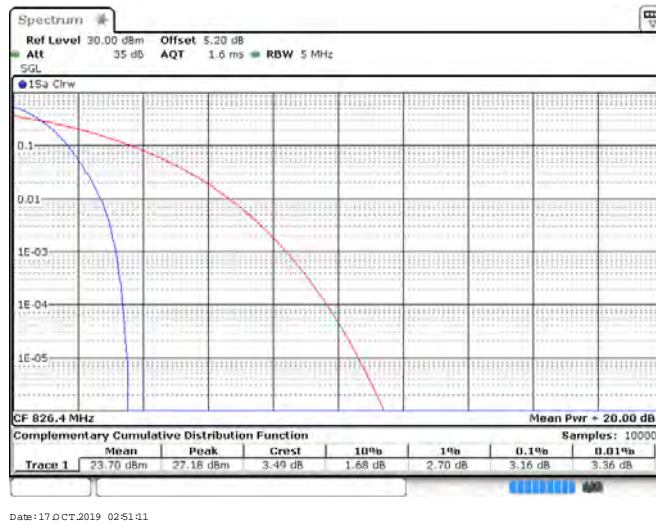


Date: 17 OCT 2019 01:54:52

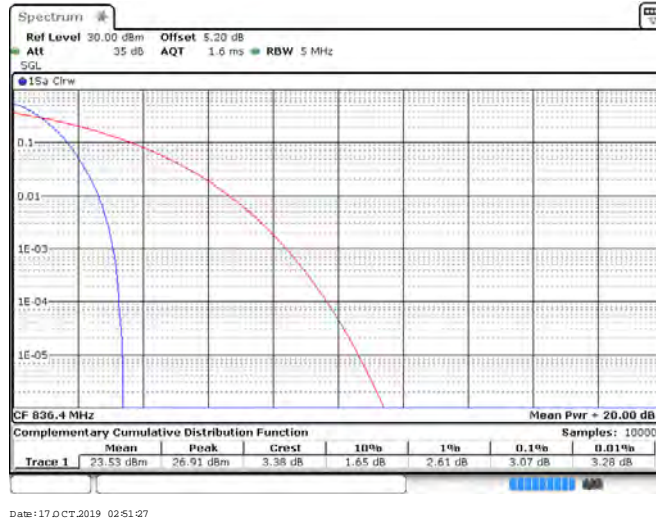
Band V_4132_16QAM



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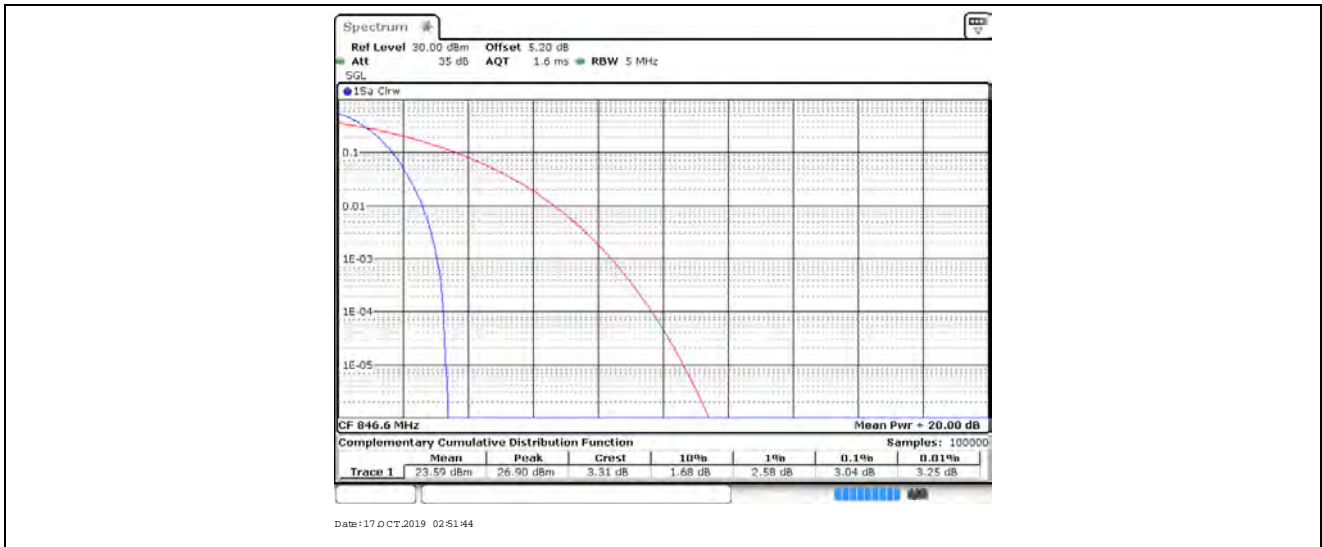
Band V_4182_16QAM



Band V_4233_16QAM



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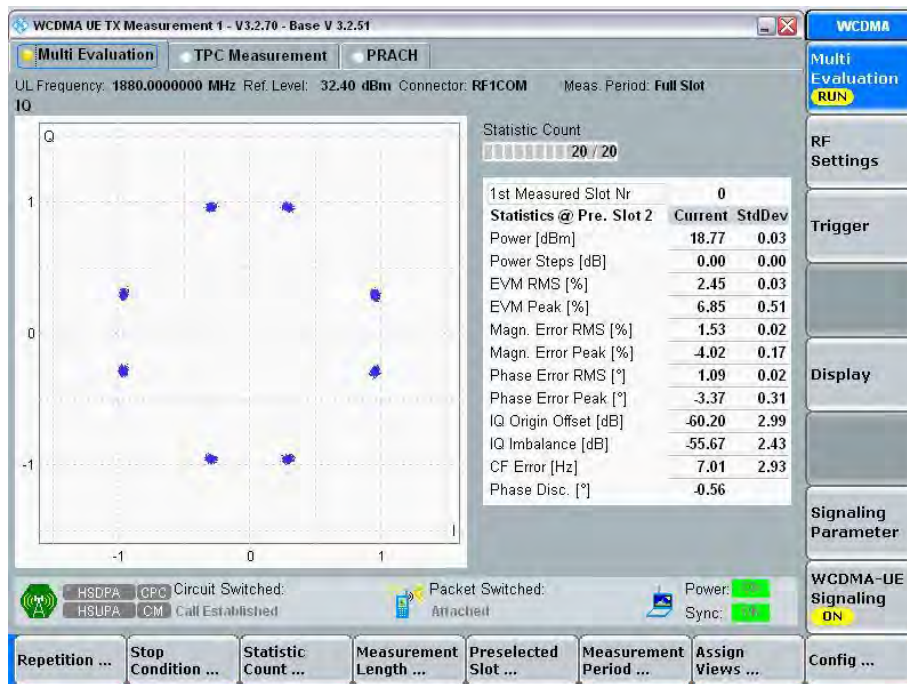
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

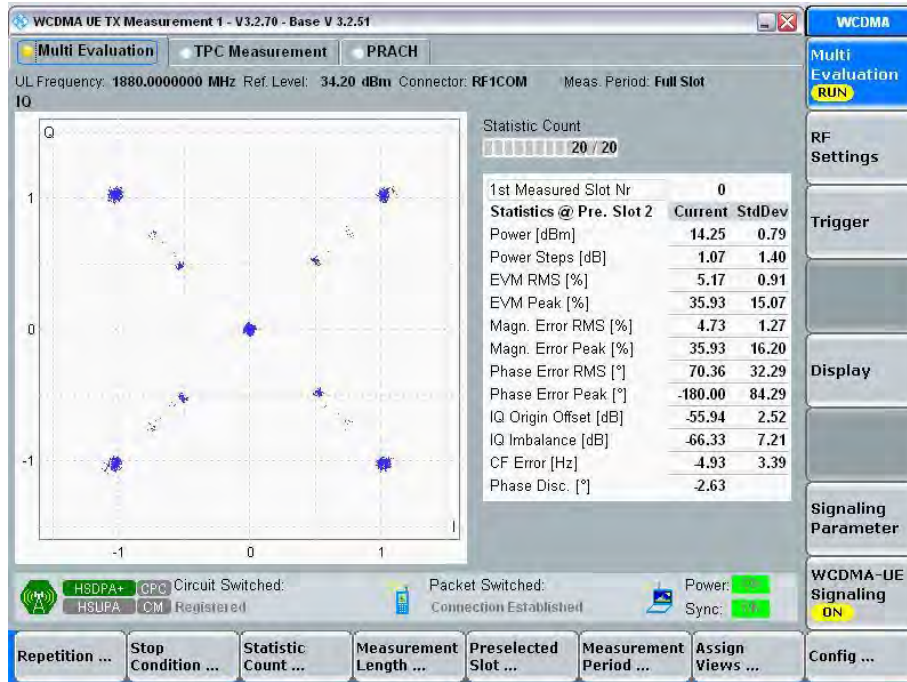
3.1.1.1. Test Channel = MCH



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3.1.2. Test Mode = UMTS/TM2

3.1.2.1. Test Channel = MCH



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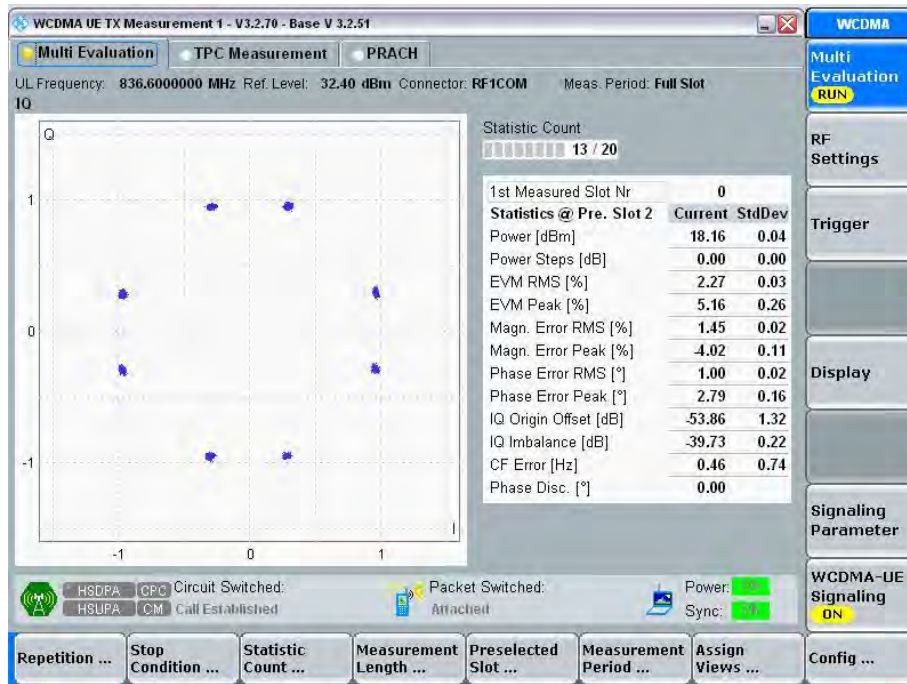
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3.2. Test Band = WCDMA Band V

3.2.1. Test Mode = UMTS/TM1

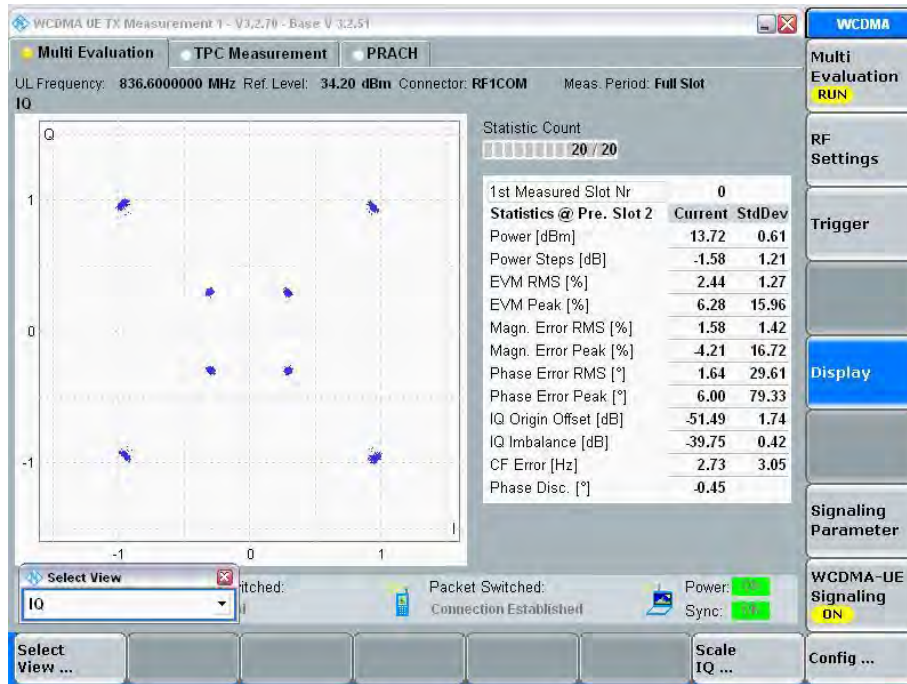
3.2.1.1. Test Channel = MCH



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3.2.2. Test Mode = UMTS/TM2

3.2.2.1. Test Channel = MCH



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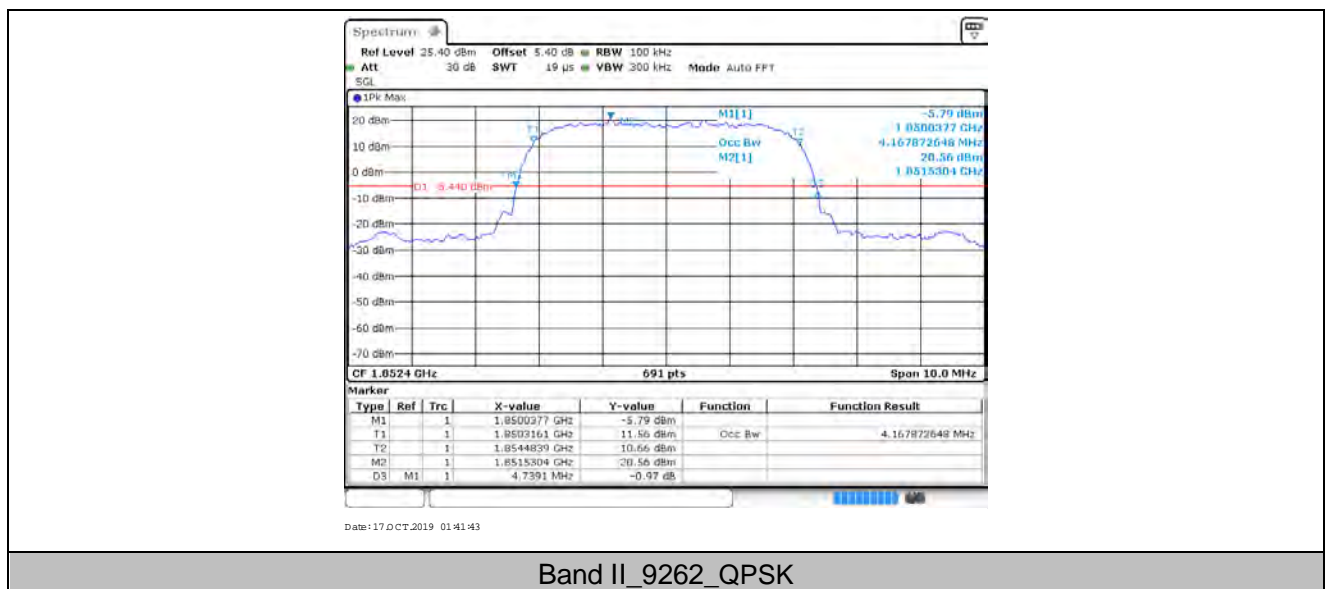


4. 26dB Bandwidth and Occupied Bandwidth

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

4.2. Test Plots



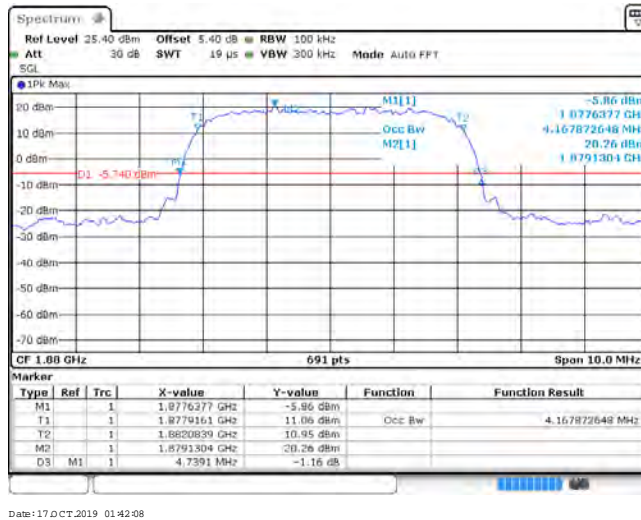
Band II_9262_QPSK



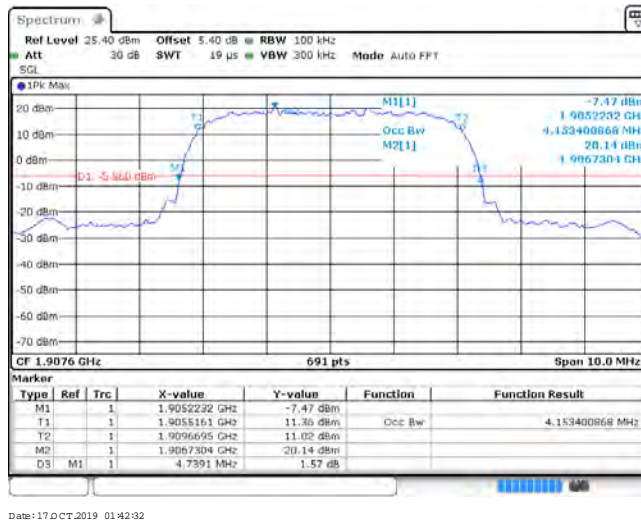
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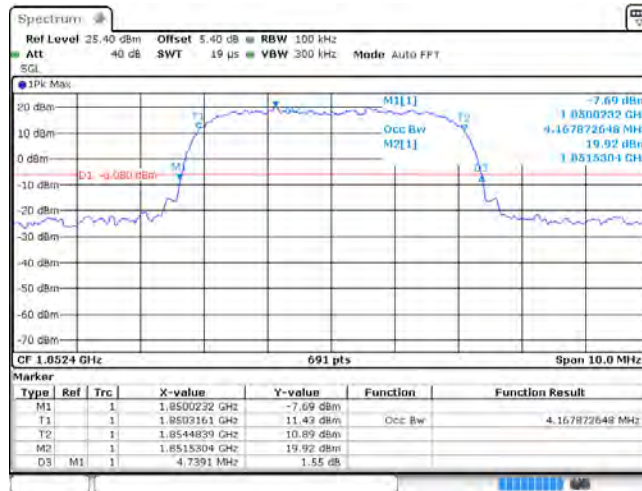
Band II_9400_QPSK



Band II_9538_QPSK

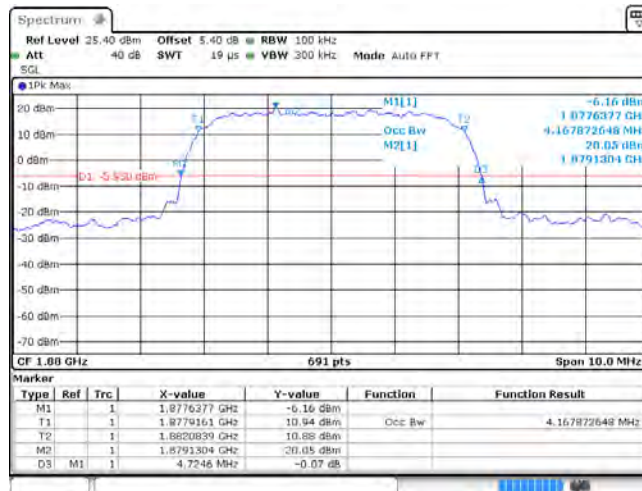


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Date: 17 OCT. 2019 02:41:19

Band II_9262_16QAM

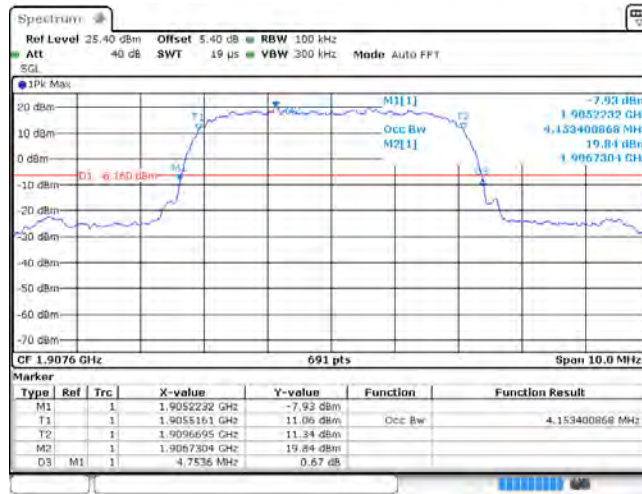


Date: 17 OCT. 2019 02:41:44

Band II_9400_16QAM

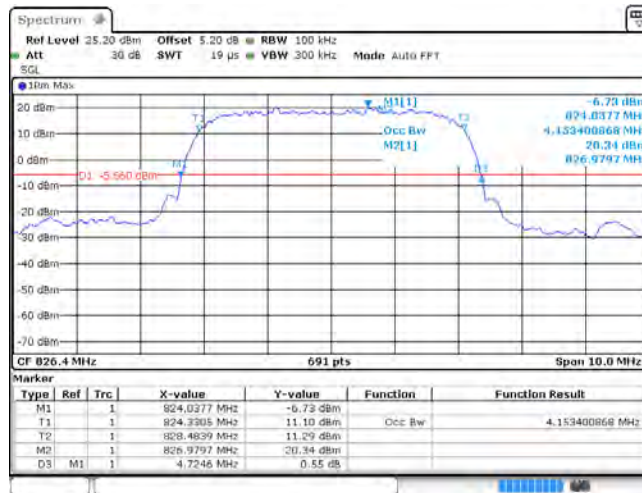


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Date: 17 OCT 2019 02:42:08

Band II_9538_16QAM

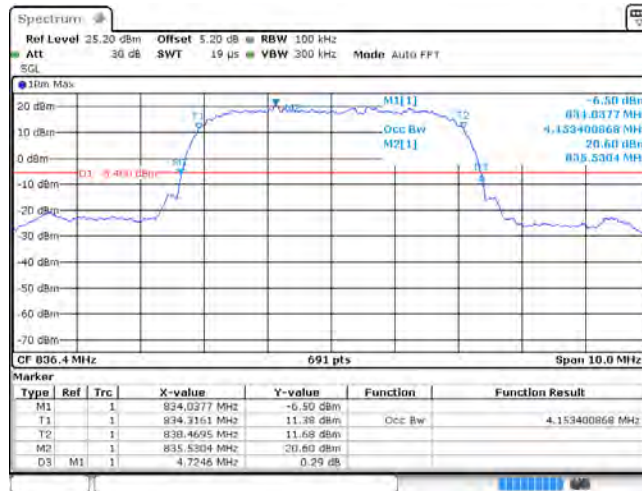


Date: 17 OCT 2019 01:49:19

Band V_4132_QPSK

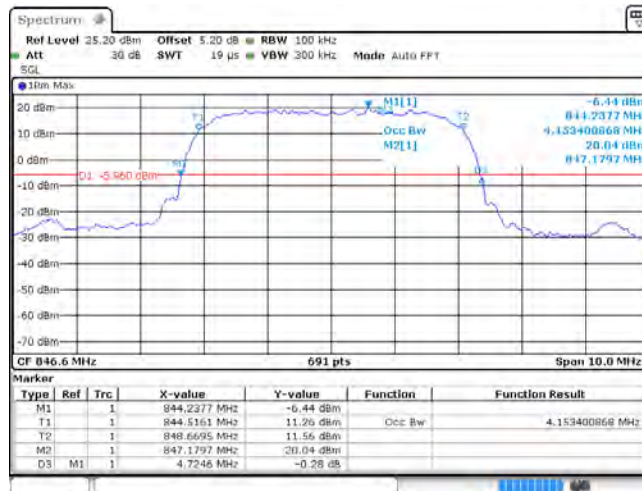


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Date: 17 OCT 2019 01:49:43

Band V_4182_QPSK

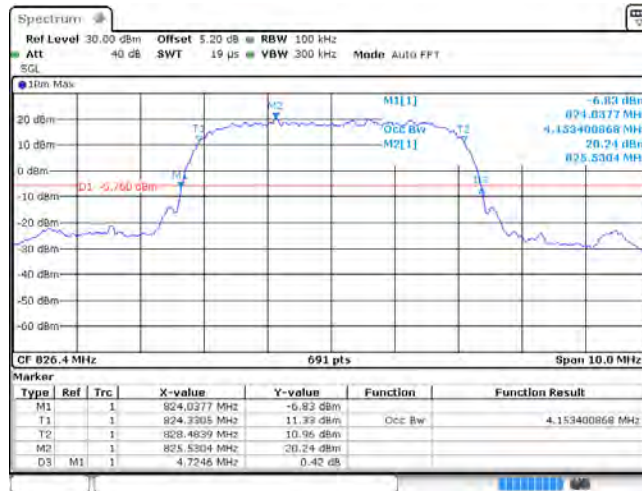


Date: 17 OCT 2019 01:50:07

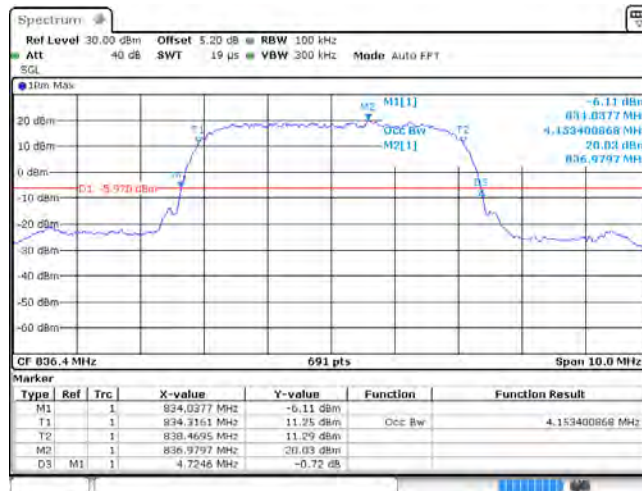
Band V_4233_QPSK



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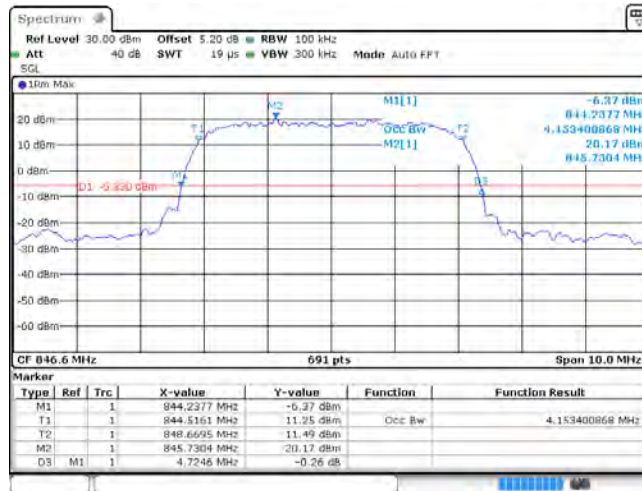
Band V_4132_16QAM



Band V_4182_16QAM



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Date: 17 OCT 2019 02:53:08

Band V_4233_16QAM

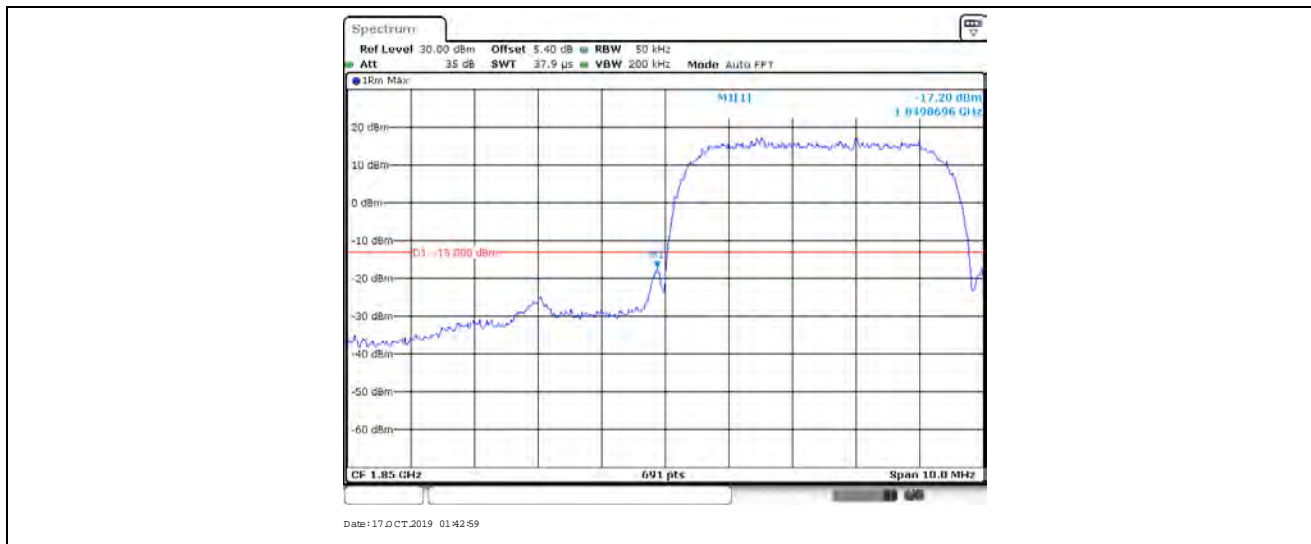


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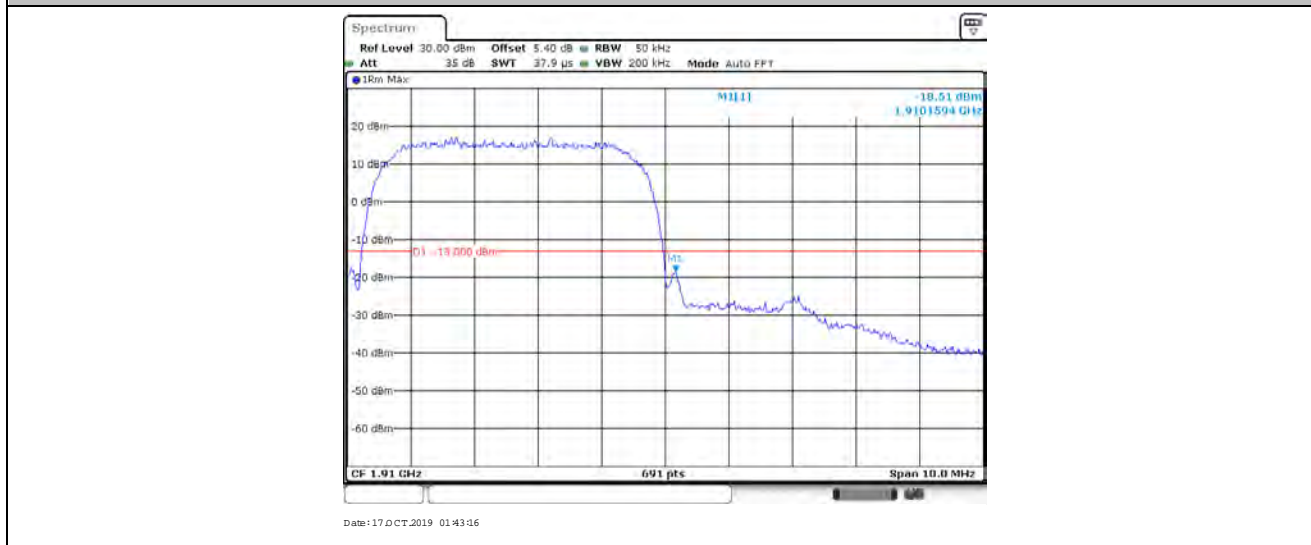
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5. Band Edge Compliance

5.1. Test Plots



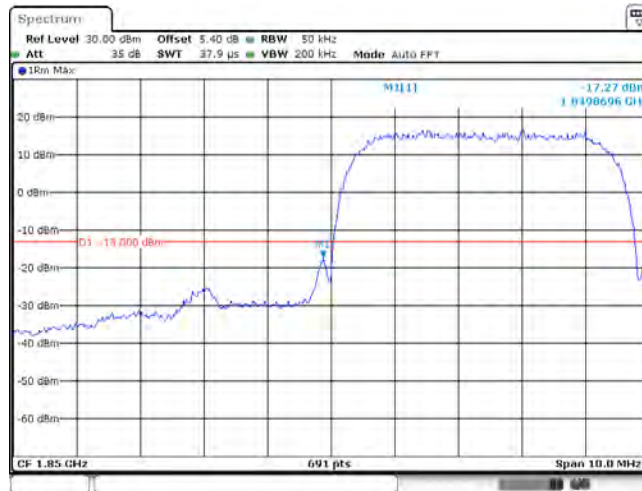
Band II_9262_QPSK



Band II_9538_QPSK

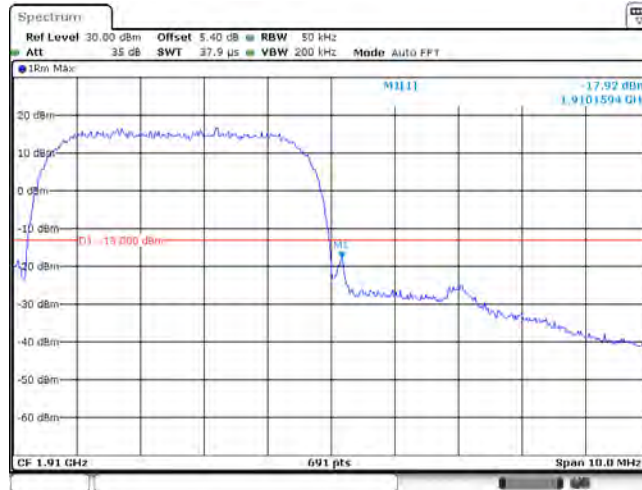


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Band II_9262_16QAM

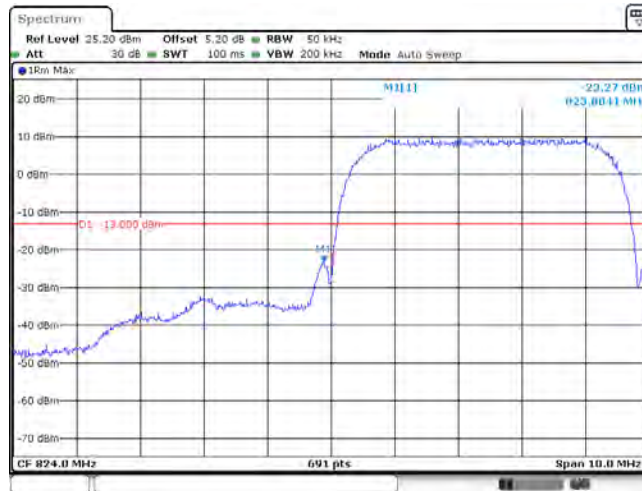


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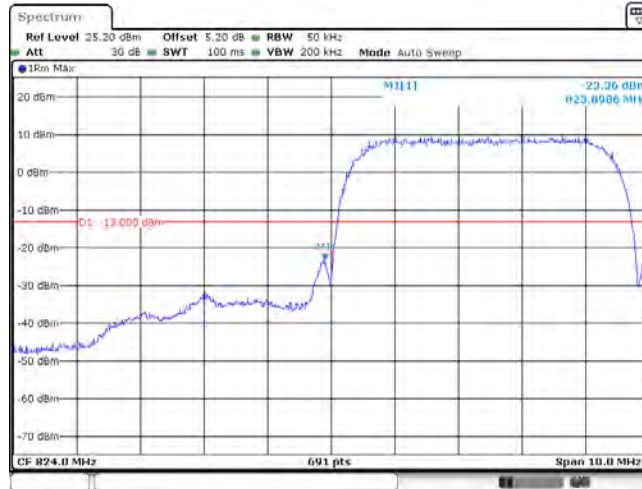
Band V_4132_QPSK



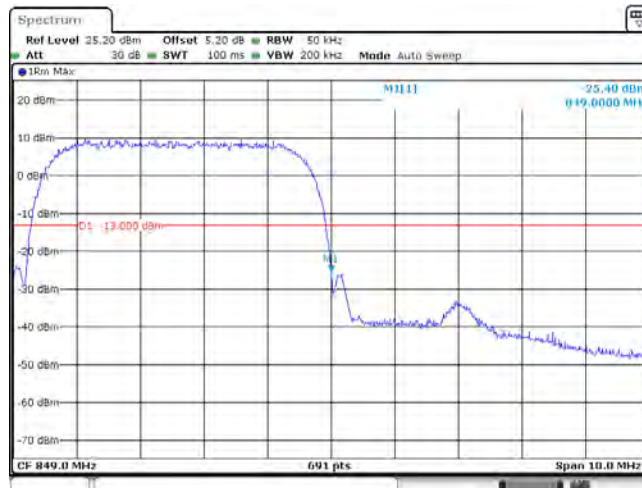
Band V_4233_QPSK



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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 = $k * (Span / RBW)$ " 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.

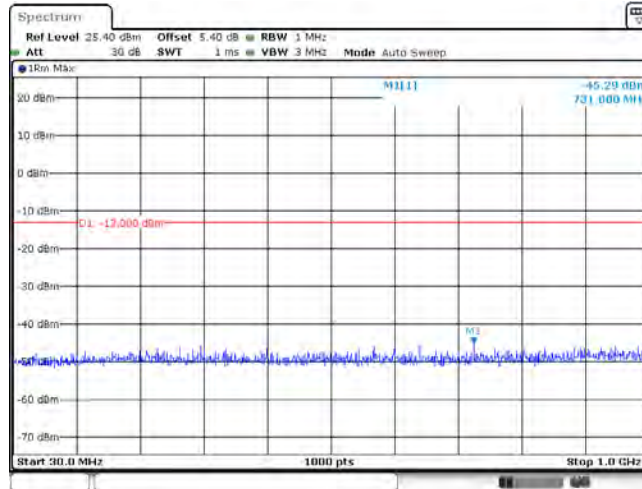
6.1. Test Plots for QPSK



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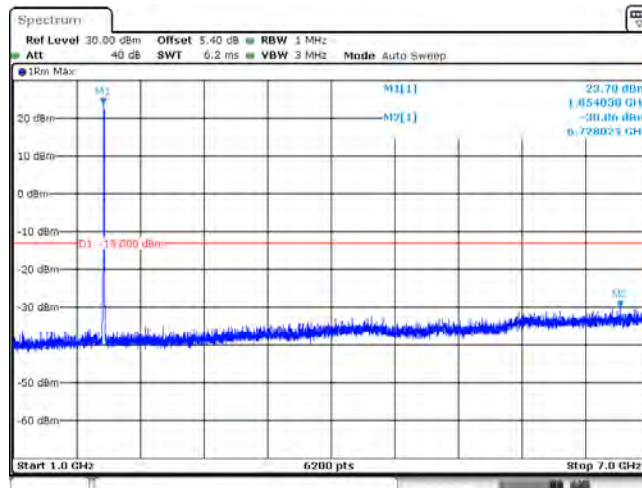
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Date: 17 OCT 2019 01:44:08

Band II_9262



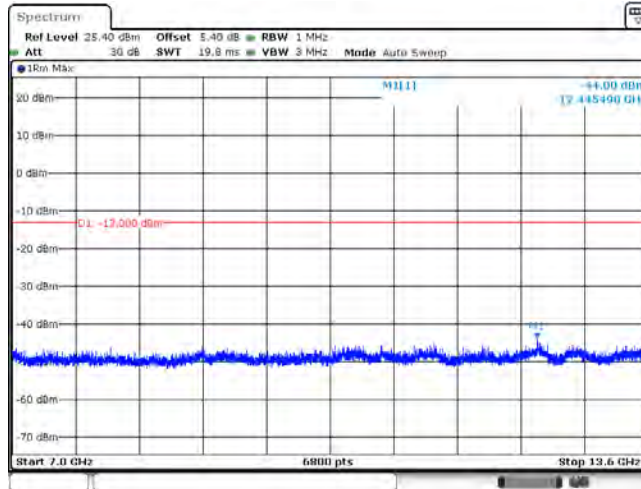
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Band II_9262



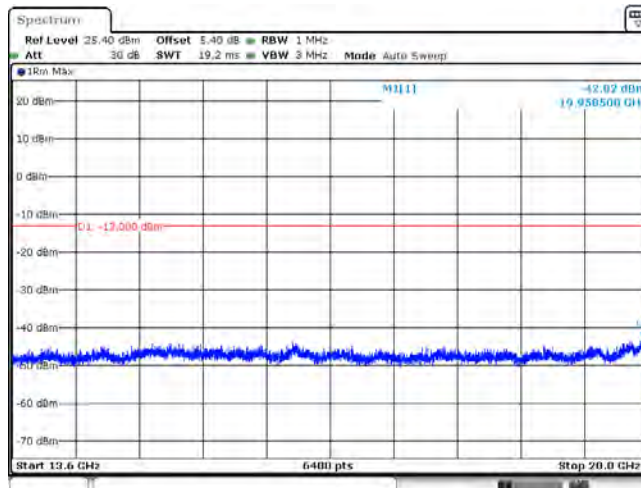
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Date: 17 OCT 2019 01:44:31

Band II_9262

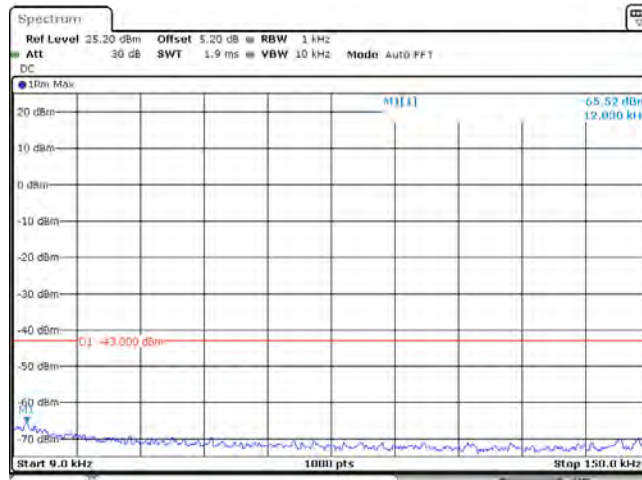


Date: 17 OCT 2019 01:44:42

Band II_9262

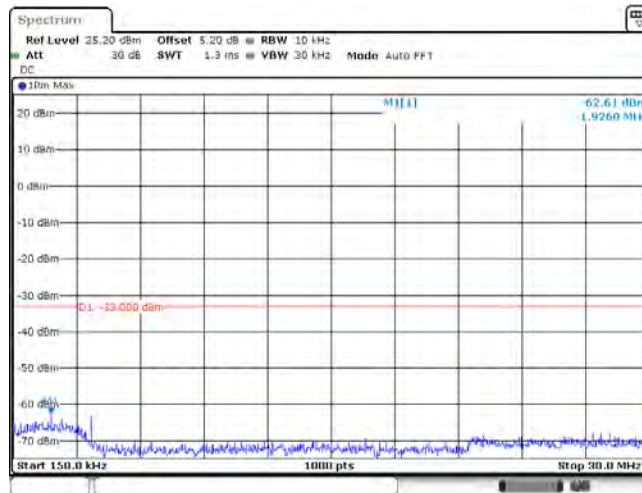


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Date: 17 OCT. 2019 01:44:55

Band II_9400

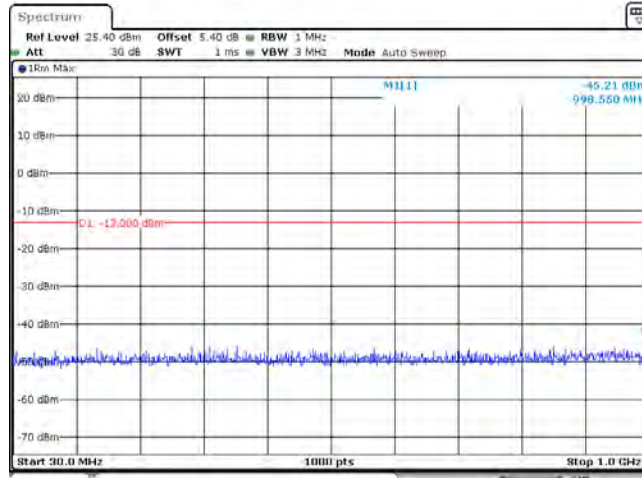


Date: 17 OCT. 2019 01:45:06

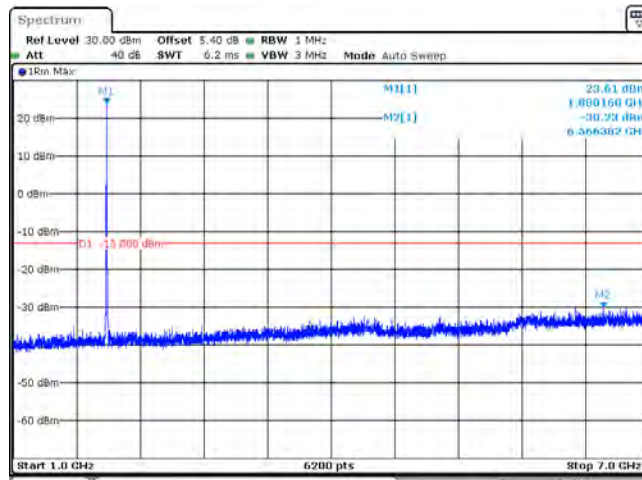
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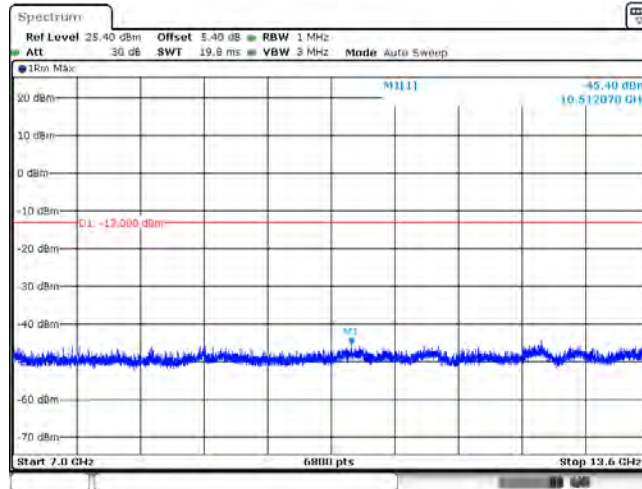
Band II_9400



Band II_9400

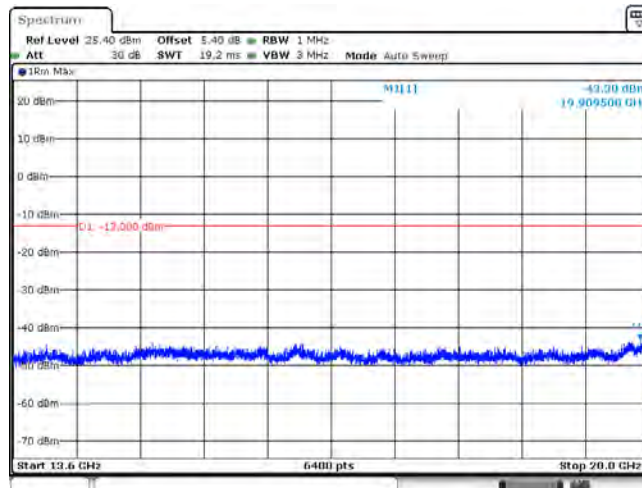


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Date: 17 OCT 2019 01:45:39

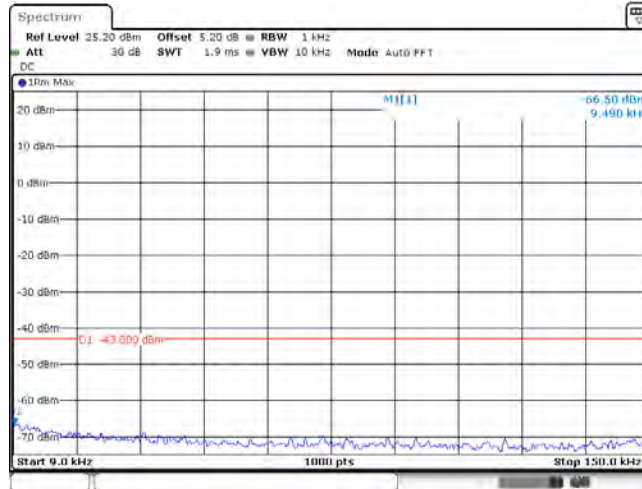
Band II_9400



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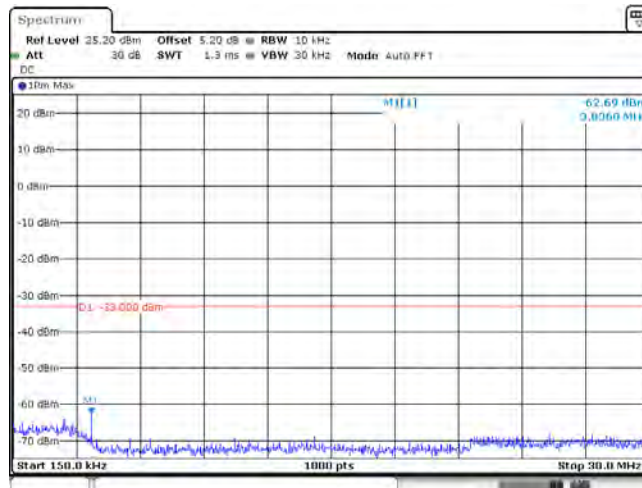
Band II_9400





Date: 17 OCT 2019 01:46:03

Band II_9538

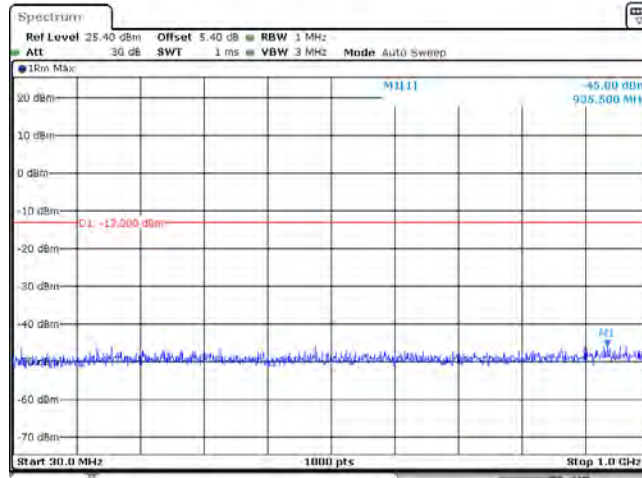


Date: 17 OCT 2019 01:46:14

Band II_9538

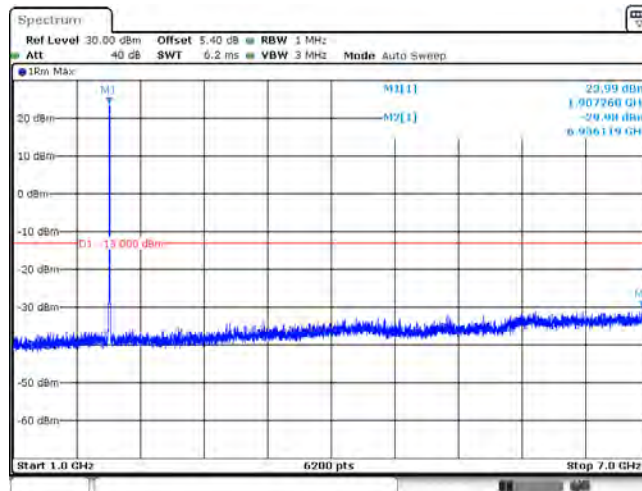


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Band II_9538



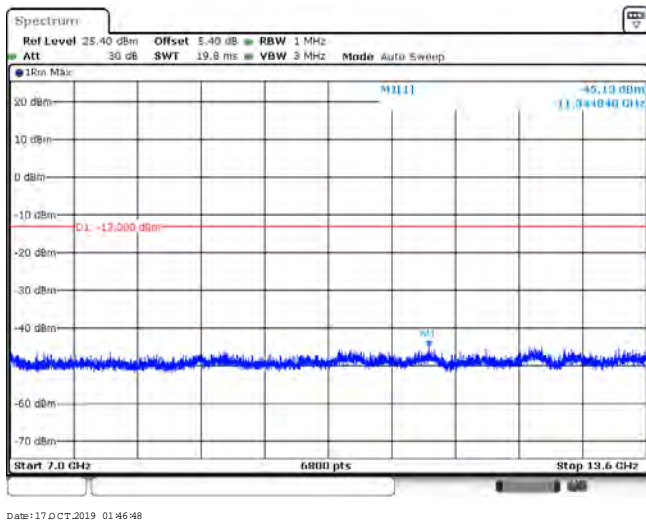
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Band II_9538

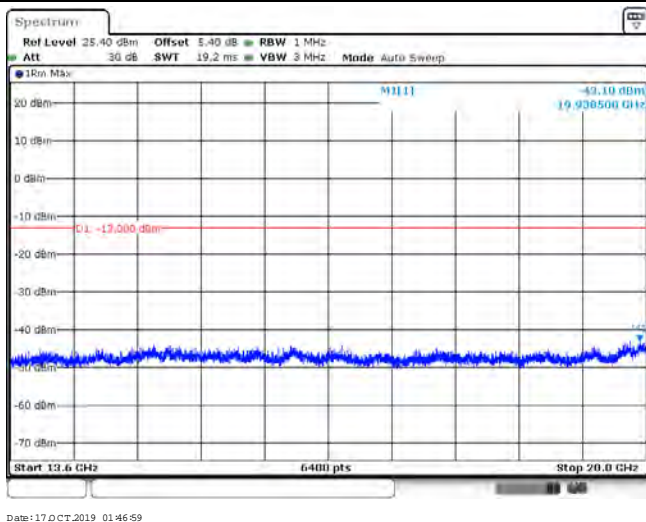


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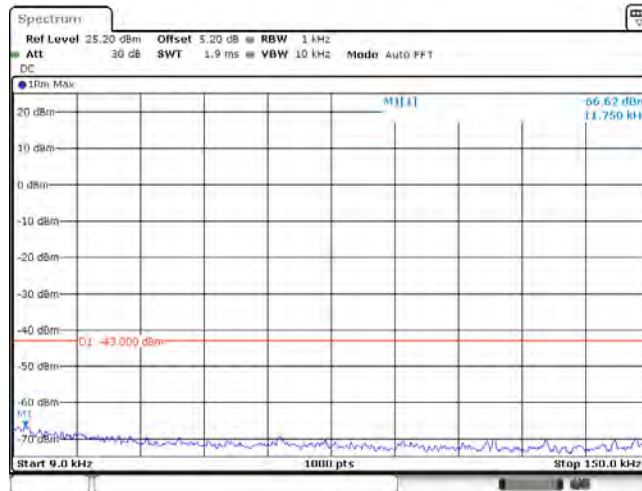
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Band II_9538

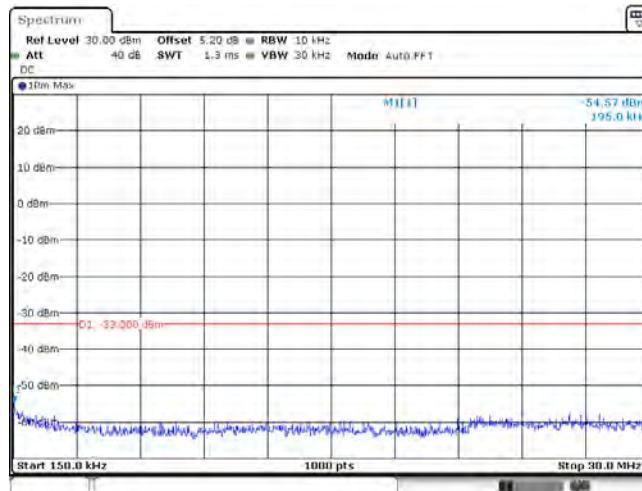


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Date: 17 OCT 2019 01:51:24

Band V_4132

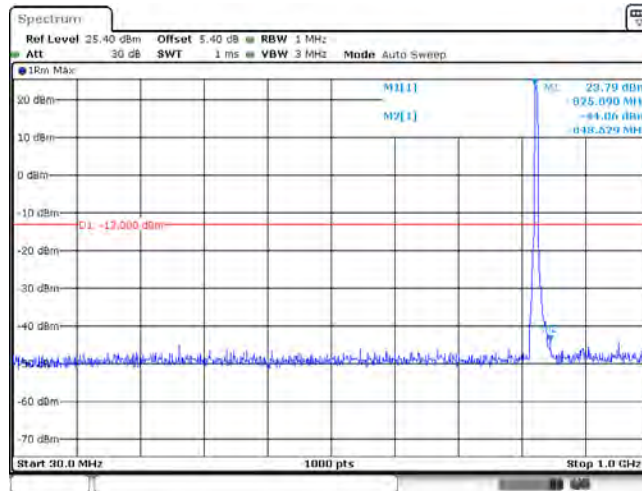


Date: 17 OCT 2019 01:51:49

Band V_4132

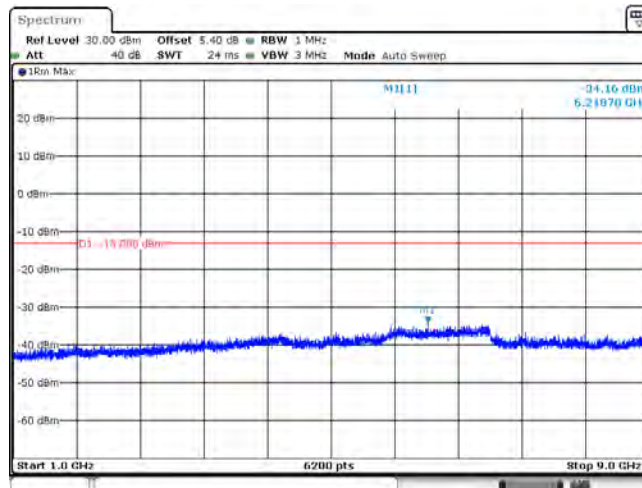


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Date: 17 OCT 2019 01:52:01

Band V_4132

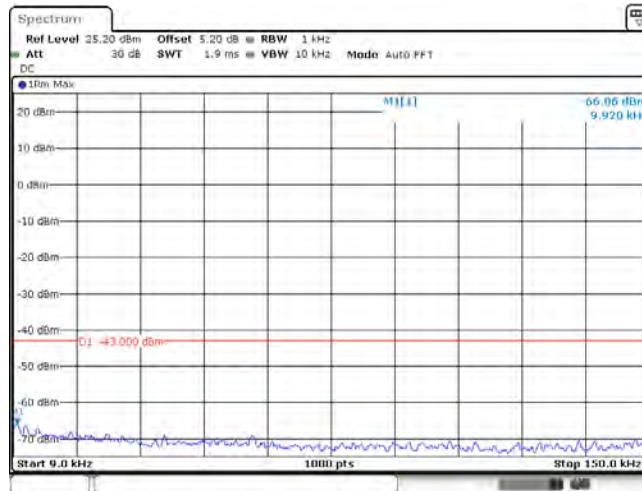


Date: 17 OCT 2019 01:52:12

Band V_4132

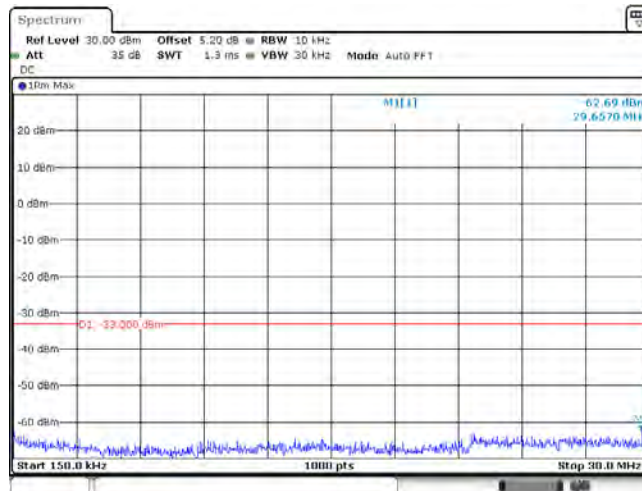


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Date: 17 OCT. 2019 01:52:25

Band V_4182

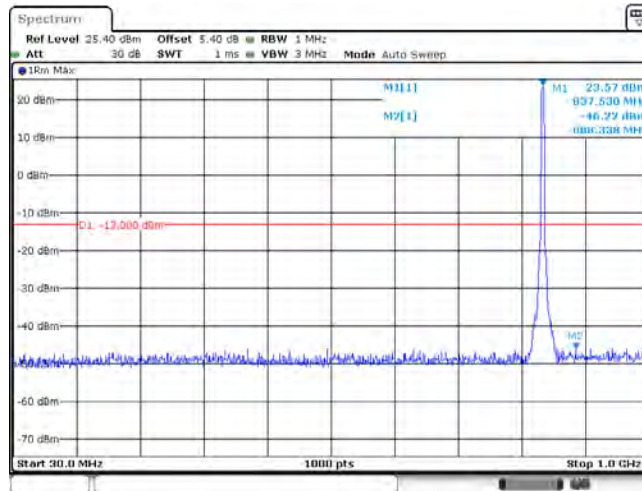


Date: 17 OCT. 2019 01:52:42

Band V_4182

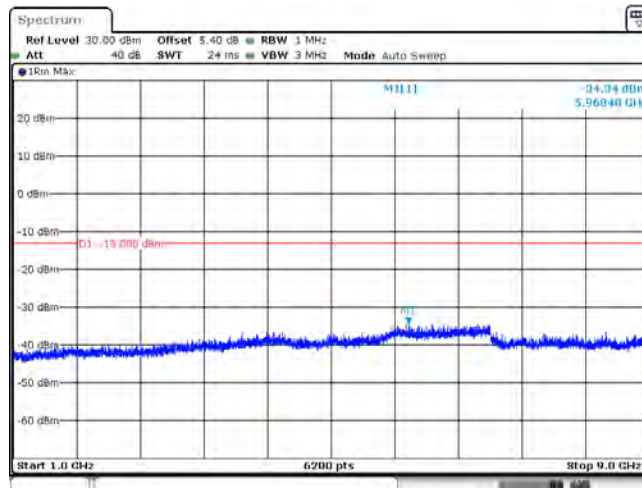


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Date: 17 OCT 2019 01:52:54

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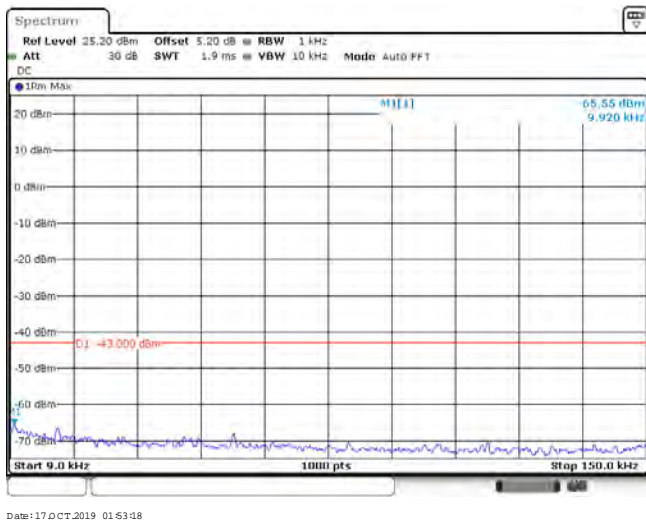


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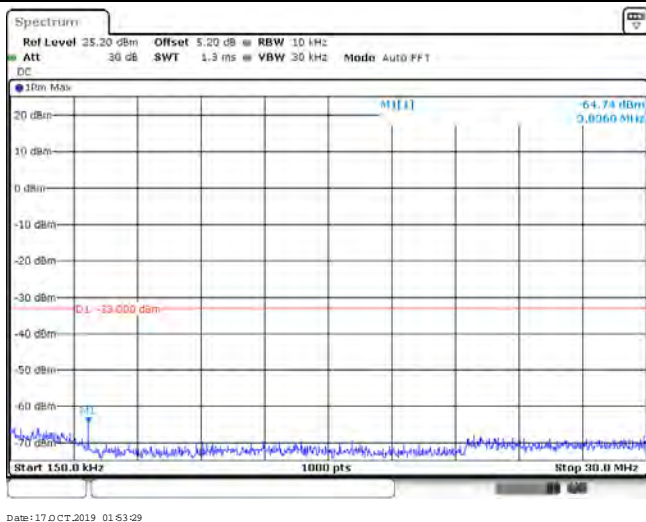
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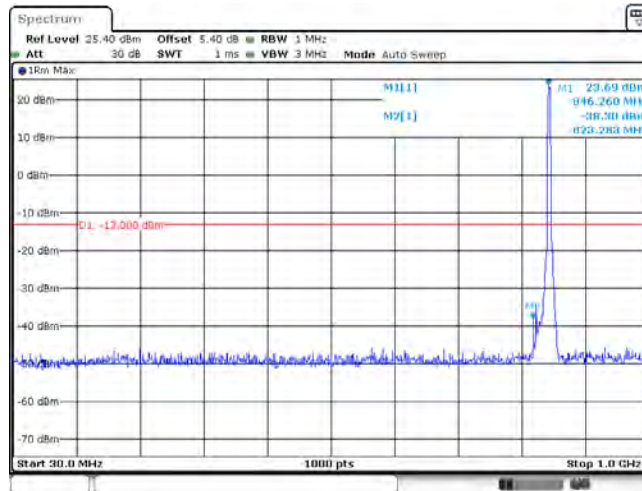
Band V_4233



Band V_4233

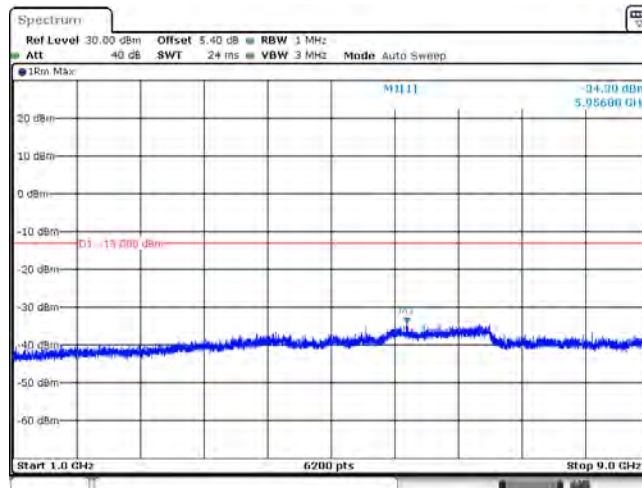


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Band V_4233



Date: 17 OCT 2019 01:53:52

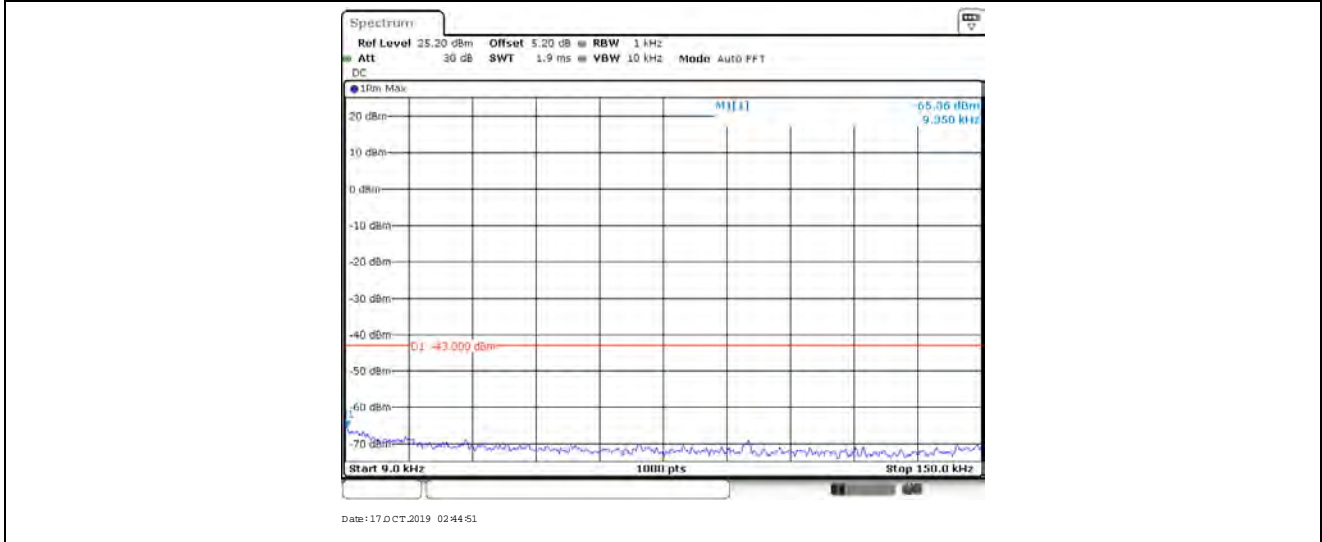
Band V_4233



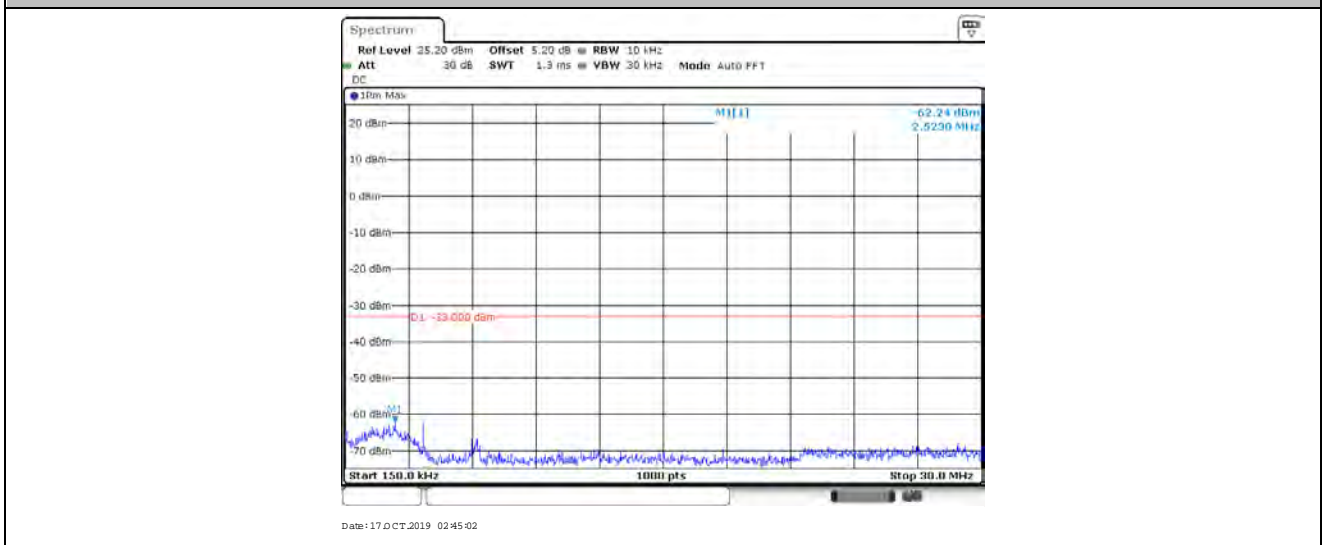
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6.2. Test Plots for 16QAM



Band II_9262

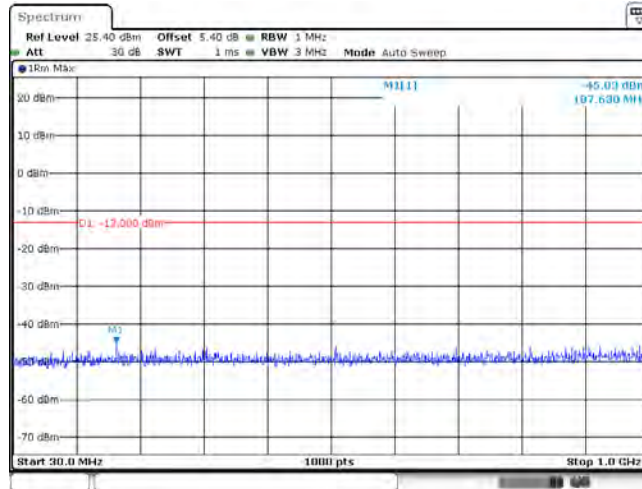


Band II_9262



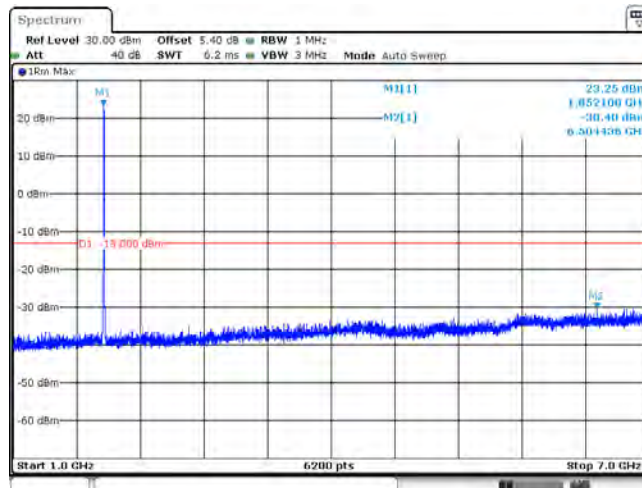
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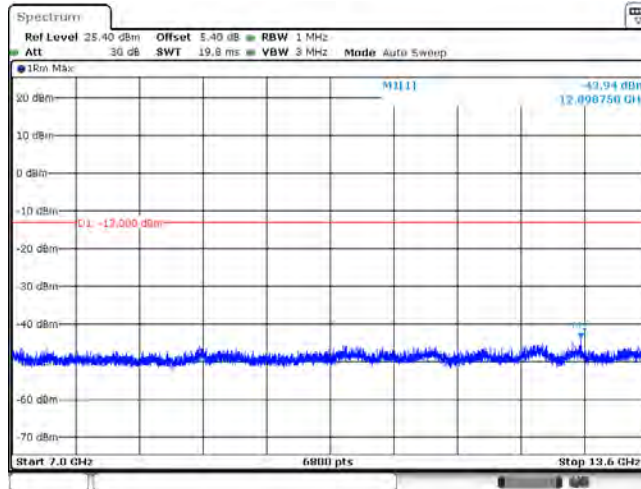
Date: 17 OCT 2019 02:45:25

Band II_9262



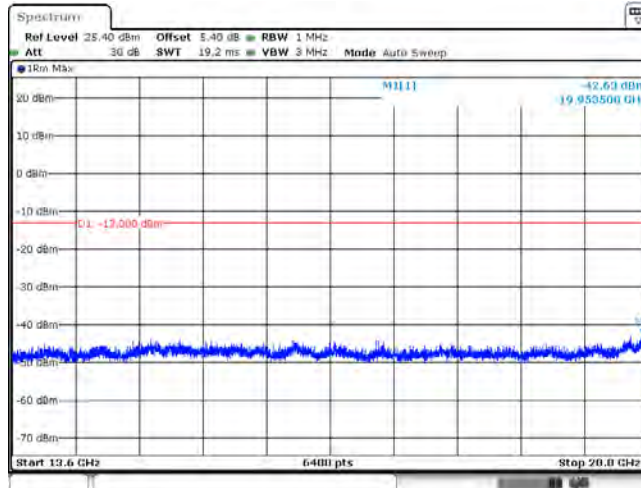
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Date: 17 OCT 2019 02:45:36

Band II_9262

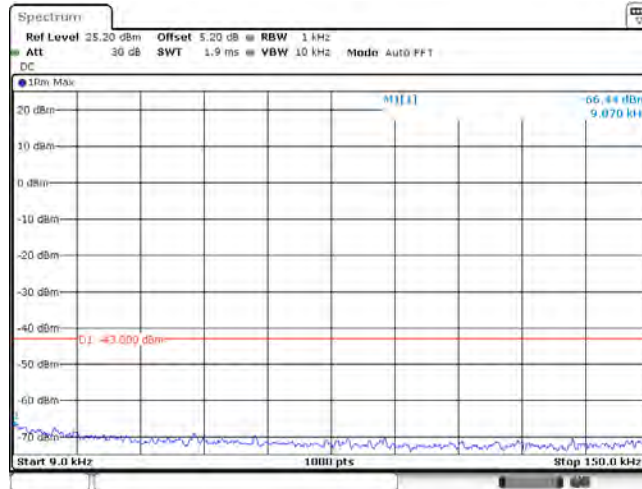


Date: 17 OCT 2019 02:45:47

Band II_9262

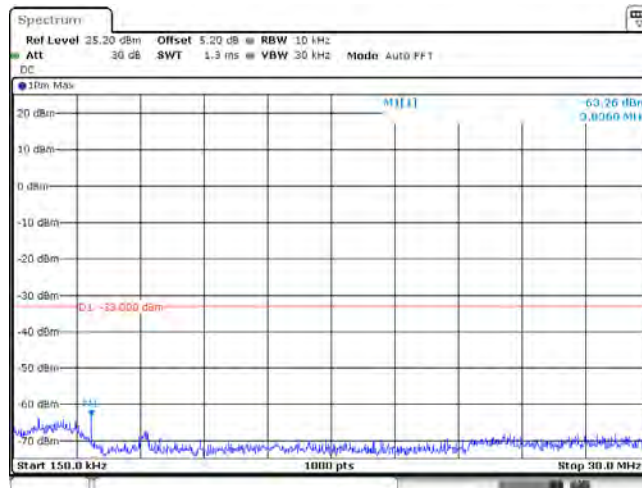


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Date: 17 OCT 2019 02:46:00

Band II_9400

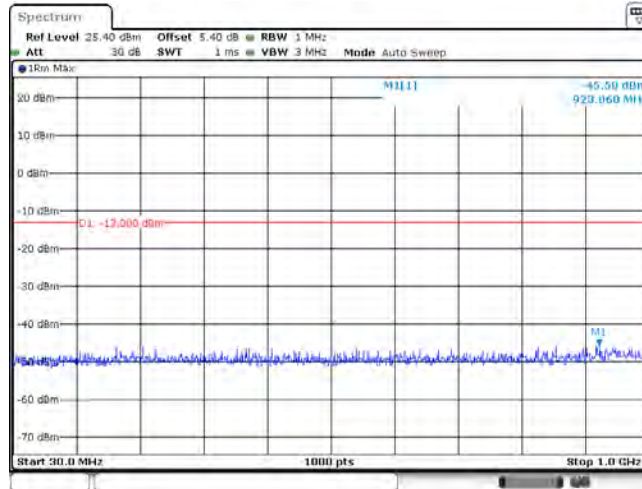


Date: 17 OCT 2019 02:46:11

Band II_9400

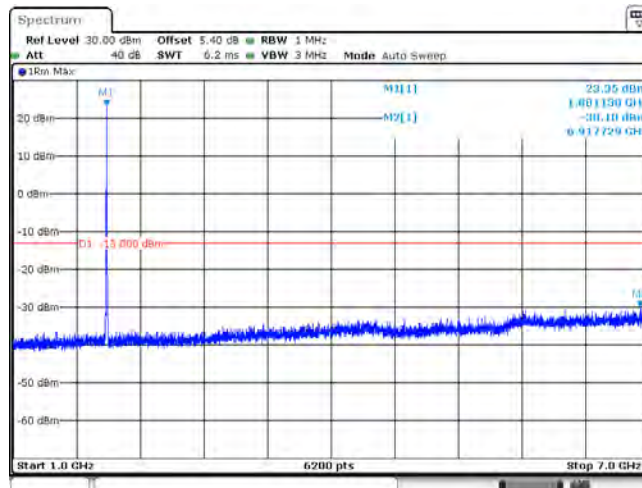


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Date: 17 OCT 2019 02:46:22

Band II_9400



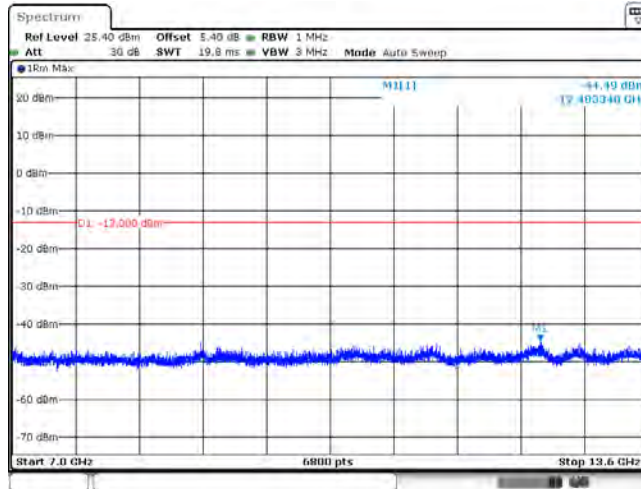
Date: 17 OCT 2019 02:46:34

Band II_9400



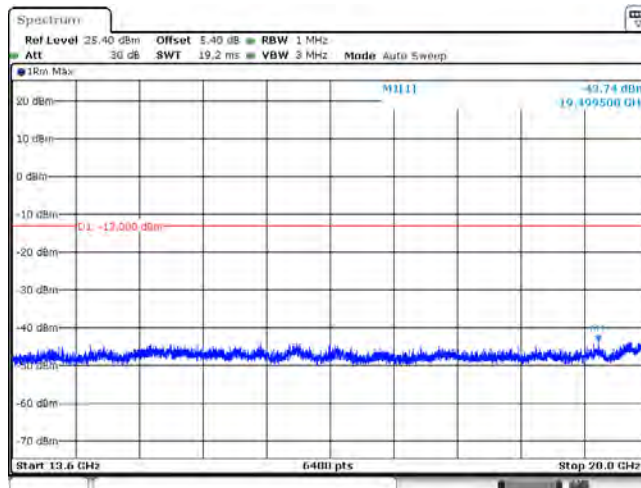
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Date: 17 OCT 2019 02:46:45

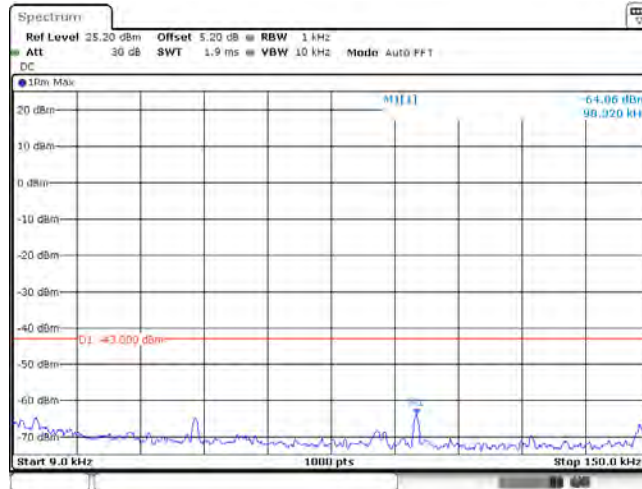
Band II_9400



Date: 17 OCT 2019 02:46:56

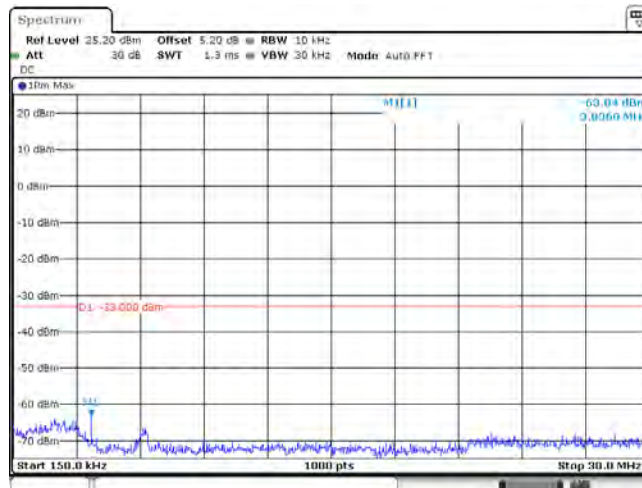
Band II_9400





Date: 17 OCT. 2019 02:47:09

Band II_9538



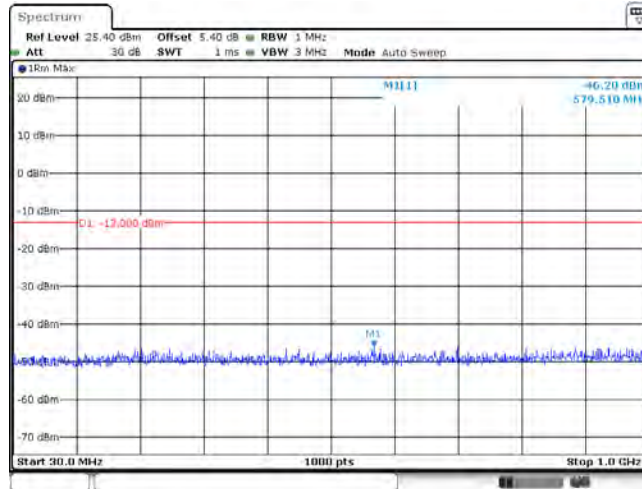
Date: 17 OCT. 2019 02:47:20

Band II_9538



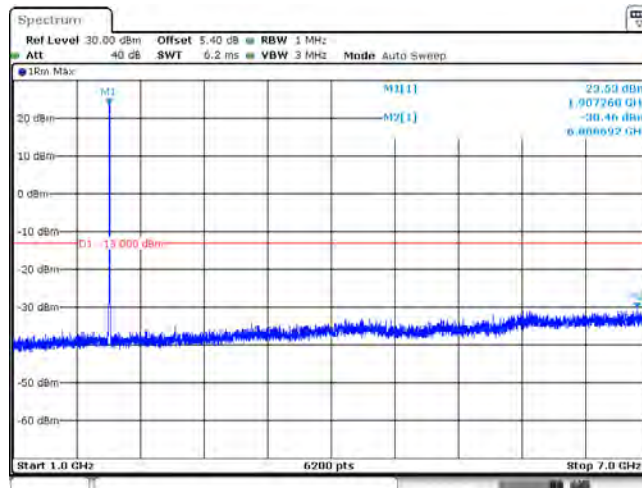
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Date: 17 OCT 2019 02:47:31

Band II_9538

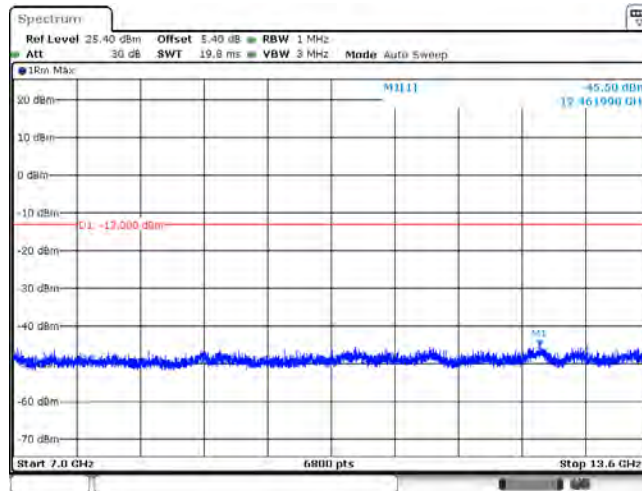


Date: 17 OCT 2019 02:47:43

Band II_9538

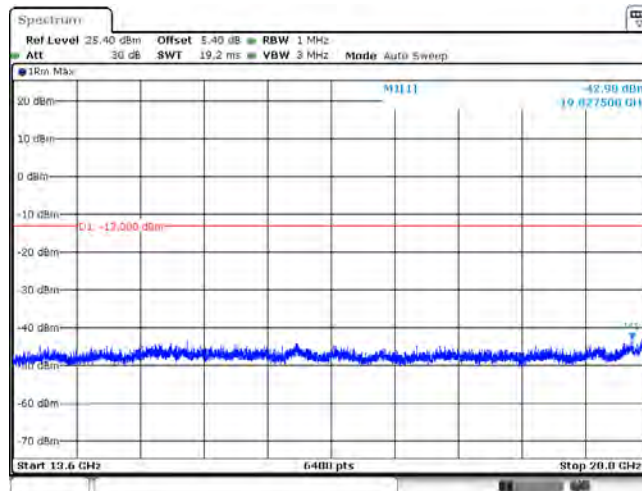


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Date: 17 OCT 2019 02:47:54

Band II_9538

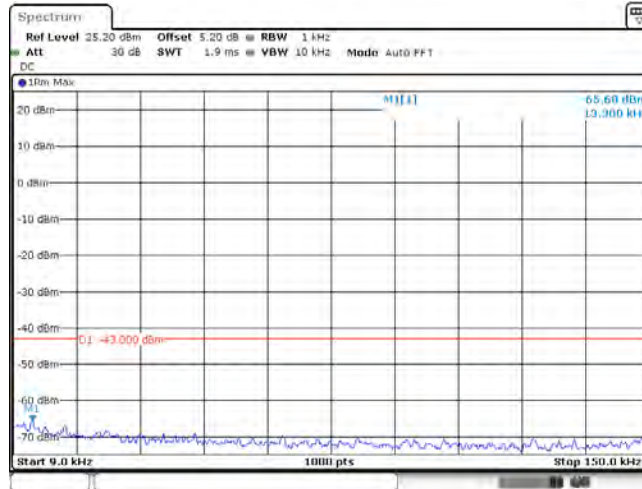


Date: 17 OCT 2019 02:48:05

Band II_9538

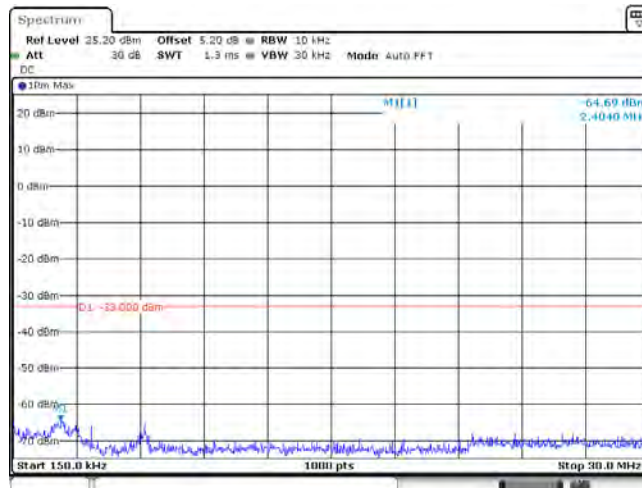


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Date: 17 OCT. 2019 02:54:24

Band V_4132

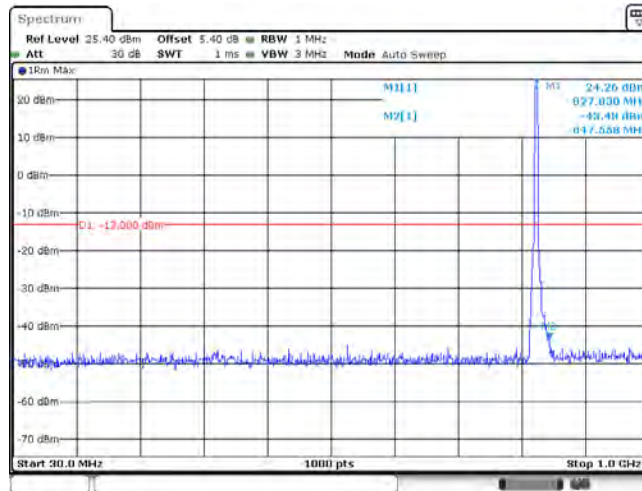


Date: 17 OCT. 2019 02:54:35

Band V_4132

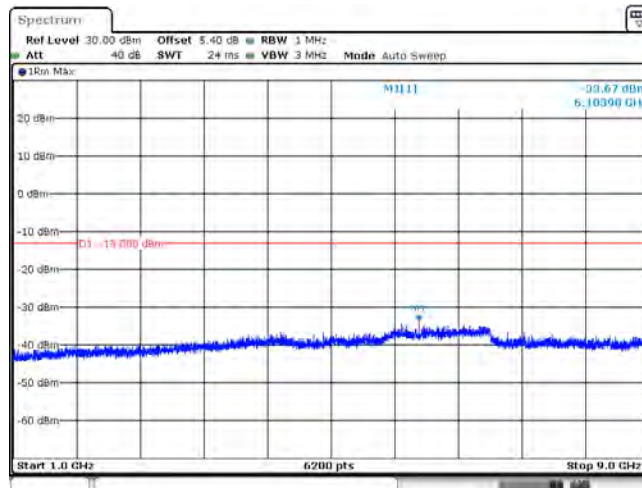


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Date: 17 OCT 2019 02:54:47

Band V_4132

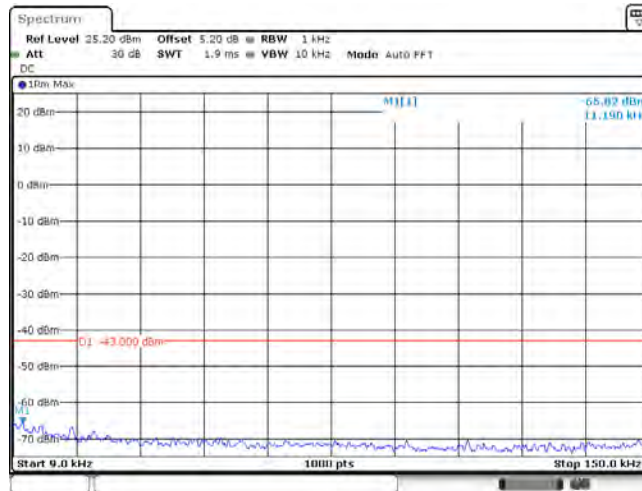


Date: 17 OCT 2019 02:54:58

Band V_4132

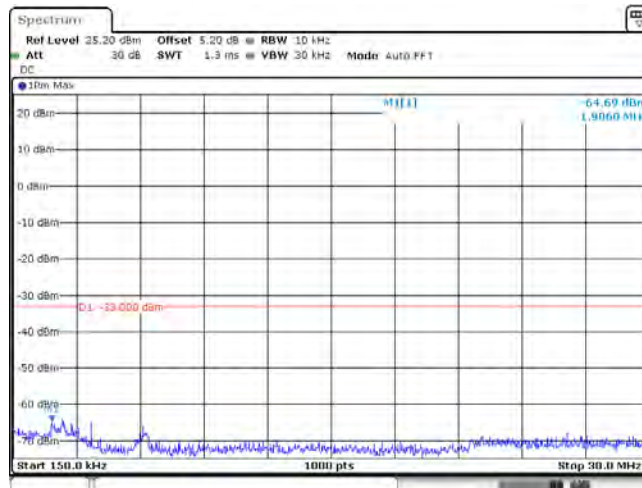


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Date: 17 OCT. 2019 02:55:11

Band V_4182

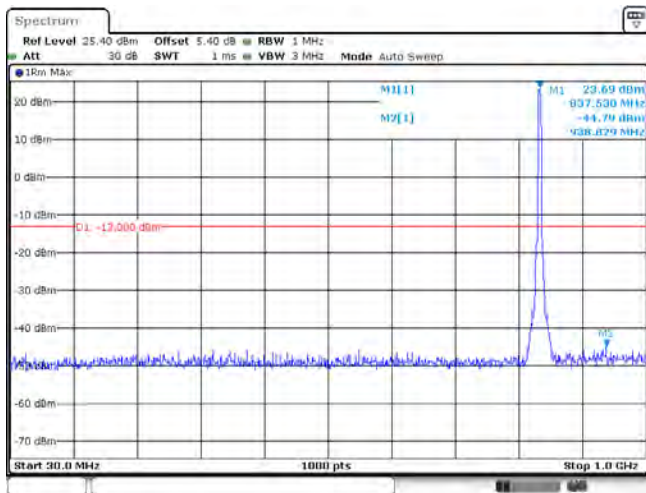


Date: 17 OCT. 2019 02:55:22

Band V_4182

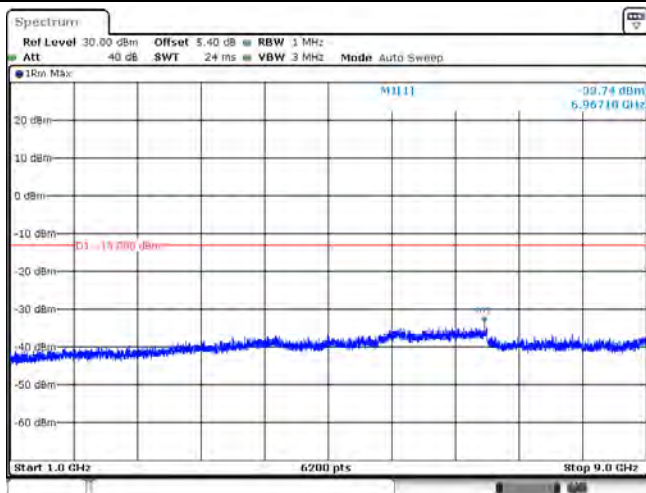


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Date: 17 OCT 2019 02:55:34

Band V_4182

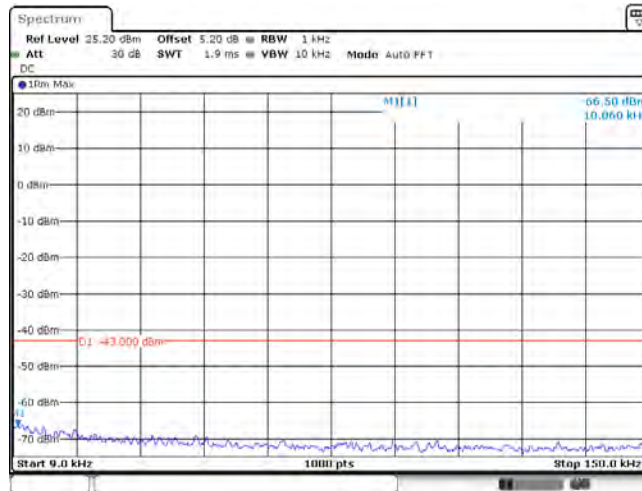


Date: 17 OCT 2019 02:55:45

Band V_4182

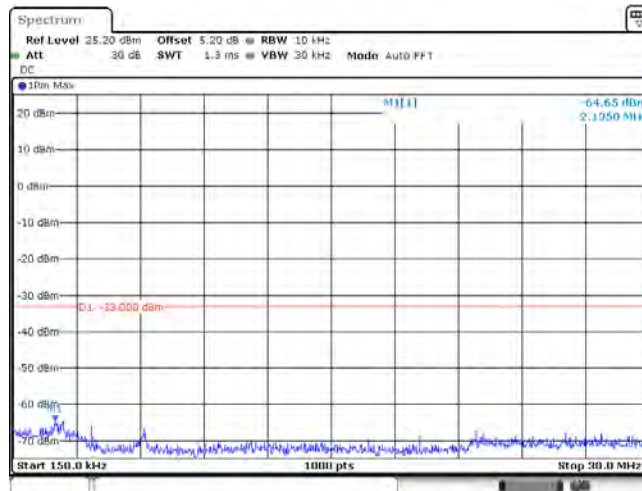


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Date: 17 OCT 2019 02:55:58

Band V_4233

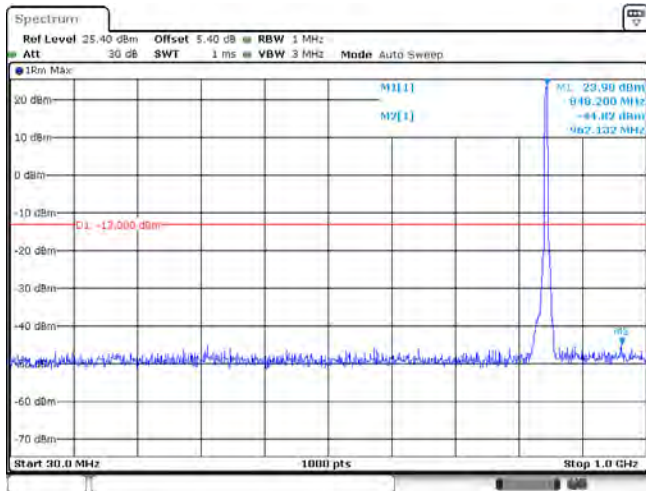


Date: 17 OCT 2019 02:56:09

Band V_4233

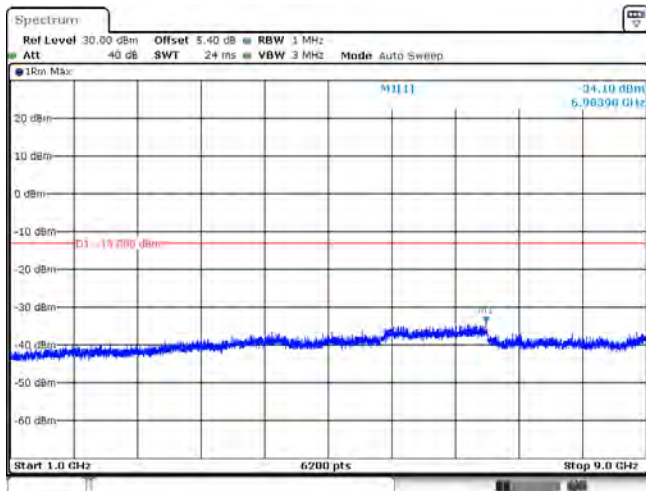


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Date: 17 OCT 2019 02:56:21

Band V_4233



Date: 17 OCT 2019 02:56:32

Band V_4233



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
51.9716	-71.09	-13.00	58.09	Vertical
105.9063	-64.16	-13.00	51.16	Vertical
303.9417	-68.62	-13.00	55.62	Vertical
2698.7397	-35.96	-13.00	22.96	Vertical
5601.0867	-55.64	-13.00	42.64	Vertical
17993.9998	-33.00	-13.00	20.00	Vertical
38.1484	-63.58	-13.00	50.58	Horizontal
233.0797	-67.15	-13.00	54.15	Horizontal
459.3920	-66.14	-13.00	53.14	Horizontal
2699.5399	-34.71	-13.00	21.71	Horizontal
9282.2094	-49.98	-13.00	36.98	Horizontal
17985.9995	-37.57	-13.00	24.57	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.8674	-72.09	-13.00	59.09	Vertical
114.6367	-63.21	-13.00	50.21	Vertical
332.7036	-67.96	-13.00	54.96	Vertical
2697.9396	-35.46	-13.00	22.46	Vertical
8590.6864	-51.61	-13.00	38.61	Vertical
17995.4999	-32.76	-13.00	19.76	Vertical
41.7861	-63.33	-13.00	50.33	Horizontal
249.4735	-67.53	-13.00	54.53	Horizontal
589.7180	-62.81	-13.00	49.81	Horizontal
2703.9408	-34.74	-13.00	21.74	Horizontal
8001.6667	-52.92	-13.00	39.92	Horizontal
16399.4466	-38.73	-13.00	25.73	Horizontal



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7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-71.82	-13.00	58.82	Vertical
109.8350	-64.10	-13.00	51.10	Vertical
313.3512	-68.41	-13.00	55.41	Vertical
2701.5403	-35.89	-13.00	22.89	Vertical
7947.1649	-52.02	-13.00	39.02	Vertical
17994.4998	-33.30	-13.00	20.30	Vertical
42.1256	-64.12	-13.00	51.12	Horizontal
242.3436	-66.59	-13.00	53.59	Horizontal
592.4826	-63.31	-13.00	50.31	Horizontal
2700.7401	-34.68	-13.00	21.68	Horizontal
7987.6663	-52.96	-13.00	39.96	Horizontal
17998.5000	-38.00	-13.00	25.00	Horizontal

7.2. Test Band = WCDMA Band V

7.2.1. Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
45.1328	-68.17	-13.00	55.17	Vertical
106.7308	-61.27	-13.00	48.27	Vertical
256.7973	-62.09	-13.00	49.09	Vertical
2418.2837	-45.23	-13.00	32.23	Vertical
9888.2296	-48.51	-13.00	35.51	Vertical
17994.9998	-32.79	-13.00	19.79	Vertical
45.2783	-63.15	-13.00	50.15	Horizontal
229.1510	-67.75	-13.00	54.75	Horizontal
533.4552	-64.58	-13.00	51.58	Horizontal
2418.2837	-44.90	-13.00	31.90	Horizontal
5114.5705	-55.54	-13.00	42.54	Horizontal
16400.9467	-37.94	-13.00	24.94	Horizontal



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7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-71.24	-13.00	58.24	Vertical
109.1075	-64.02	-13.00	51.02	Vertical
315.0973	-68.75	-13.00	55.75	Vertical
2418.6837	-45.60	-13.00	32.60	Vertical
7443.6481	-52.89	-13.00	39.89	Vertical
17994.9998	-33.23	-13.00	20.23	Vertical
42.9987	-58.87	-13.00	45.87	Horizontal
239.3850	-67.52	-13.00	54.52	Horizontal
500.2795	-64.19	-13.00	51.19	Horizontal
2418.2837	-44.95	-13.00	31.95	Horizontal
5843.0948	-55.40	-13.00	42.40	Horizontal
16398.4466	-38.47	-13.00	25.47	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
43.2897	-73.73	-13.00	60.73	Vertical
113.6667	-63.74	-13.00	50.74	Vertical
380.2845	-67.41	-13.00	54.41	Vertical
2418.6837	-45.39	-13.00	32.39	Vertical
7988.1663	-52.16	-13.00	39.16	Vertical
17989.4997	-33.36	-13.00	20.36	Vertical
42.4166	-63.56	-13.00	50.56	Horizontal
233.9527	-66.40	-13.00	53.40	Horizontal
483.2552	-66.51	-13.00	53.51	Horizontal
2418.6837	-44.89	-13.00	31.89	Horizontal
7990.6664	-52.83	-13.00	39.83	Horizontal
16403.9468	-38.24	-13.00	25.24	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 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	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
Band V	4132	16QAM	VN	40	-5.04	-0.006093	±2.5	PASS



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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

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