



# Appendix B

## WCDMA Band II & IV & V



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## CONTENT

<b>1. EFFECTIVE (ISOTROPIC) RADIATED POWER.....</b>	<b>4</b>
1.1. TEST RESULT(UP ANTENNA).....	4
1.2. TEST RESULT(DOWN ANTENNA).....	4
<b>2. PEAK-TO-AVERAGE RATIO(CCDF).....</b>	<b>5</b>
2.1. TEST RESULT .....	5
2.2. TEST PLOTS .....	5
<b>3. MODULATION CHARACTERISTICS.....</b>	<b>14</b>
3.1. TEST BAND = WCDMA BAND II .....	14
3.1.1. TEST MODE = UMTS/TM1 .....	14
3.1.1.1. TEST CHANNEL = MCH.....	14
3.2. TEST BAND = WCDMA BAND IV.....	15
3.2.1. TEST MODE = UMTS/TM1 .....	15
3.2.1.1. TEST CHANNEL = MCH.....	15
3.3. TEST BAND = WCDMA BAND V.....	16
3.3.1. TEST MODE = UMTS/TM1 .....	16
3.3.1.1. TEST CHANNEL = MCH.....	16
<b>4. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH.....</b>	<b>17</b>
4.1. TEST RESULT .....	17
4.2. TEST PLOTS .....	17
<b>5. BAND EDGE COMPLIANCE.....</b>	<b>22</b>
5.1. TEST PLOTS .....	22
<b>6. SPURIOUS EMISSION AT ANTENNA TERMINAL .....</b>	<b>25</b>
6.1. TEST PLOTS .....	25
<b>7. FIELD STRENGTH OF SPURIOUS RADIATION .....</b>	<b>49</b>
7.1. TEST BAND = WCDMA BAND II(DOWN ANTENNA) .....	49
7.1.1. TEST MODE =WCDMA/TM1 .....	49
7.1.1.1. TEST CHANNEL = LCH.....	49
7.1.1.2. TEST CHANNEL = HCH .....	50



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7.2. TEST BAND = WCDMA BAND IV(DOWN ANTENNA) ..... 51

7.2.1. TEST MODE =WCDMA/TM1 ..... 51

7.2.1.1. TEST CHANNEL = LCH ..... 51

7.2.1.2. TEST CHANNEL = MCH ..... 52

7.2.1.3. TEST CHANNEL = HCH ..... 52

7.3. TEST BAND = WCDMA BAND V(DOWN ANTENNA) ..... 53

7.3.1. TEST MODE =WCDMA/TM1 ..... 53

7.3.1.1. TEST CHANNEL = LCH ..... 53

7.3.1.2. TEST CHANNEL = MCH ..... 54

7.3.1.3. TEST CHANNEL = HCH ..... 54

7.4. TEST BAND = WCDMA BAND II(UP ANTENNA)..... 55

7.4.1. TEST MODE =WCDMA/TM1 ..... 55

7.4.1.1. TEST CHANNEL = LCH ..... 55

7.4.1.2. TEST CHANNEL = MCH ..... 56

7.4.1.3. TEST CHANNEL = HCH ..... 56

7.5. TEST BAND = WCDMA BAND IV(UP ANTENNA) ..... 57

7.5.1. TEST MODE =WCDMA/TM1 ..... 57

7.5.1.1. TEST CHANNEL = LCH ..... 57

7.5.1.2. TEST CHANNEL = MCH ..... 58

7.5.1.3. TEST CHANNEL = HCH ..... 58

7.6. TEST BAND = WCDMA BAND V(UP ANTENNA) ..... 59

7.6.1. TEST MODE =WCDMA/TM1 ..... 59

7.6.1.1. TEST CHANNEL = LCH ..... 59

7.6.1.2. TEST CHANNEL = MCH ..... 60

7.6.1.3. TEST CHANNEL = HCH ..... 60

**8. FREQUENCY STABILITY..... 62**

8.1. FREQUENCY VS VOLTAGE ..... 62

8.2. FREQUENCY VS TEMPERATURE ..... 63



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# 1. Effective (Isotropic) Radiated Power

## 1.1. Test Result(Up Antenna)

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	19.68	20.48	33.00	PASS
Band II	9400	19.78	20.58	33.00	PASS
Band II	9538	19.72	20.52	33.00	PASS
Band IV	1312	18.75	19.55	30.00	PASS
Band IV	1413	18.78	19.58	30.00	PASS
Band IV	1513	18.72	19.52	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.25	22.9	38.45	PASS
Band V	4182	23.35	23	38.45	PASS
Band V	4233	23.27	22.92	38.45	PASS

## 1.2. Test Result(Down Antenna)

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.41	23.91	33.00	PASS
Band II	9400	23.59	24.09	33.00	PASS
Band II	9538	23.50	24	33.00	PASS
Band IV	1312	23.40	23.9	30.00	PASS
Band IV	1413	23.41	23.91	30.00	PASS
Band IV	1513	23.31	23.81	30.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.62	23.77	38.45	PASS
Band V	4182	23.76	23.91	38.45	PASS
Band V	4233	23.66	23.81	38.45	PASS

Remark:

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

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

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



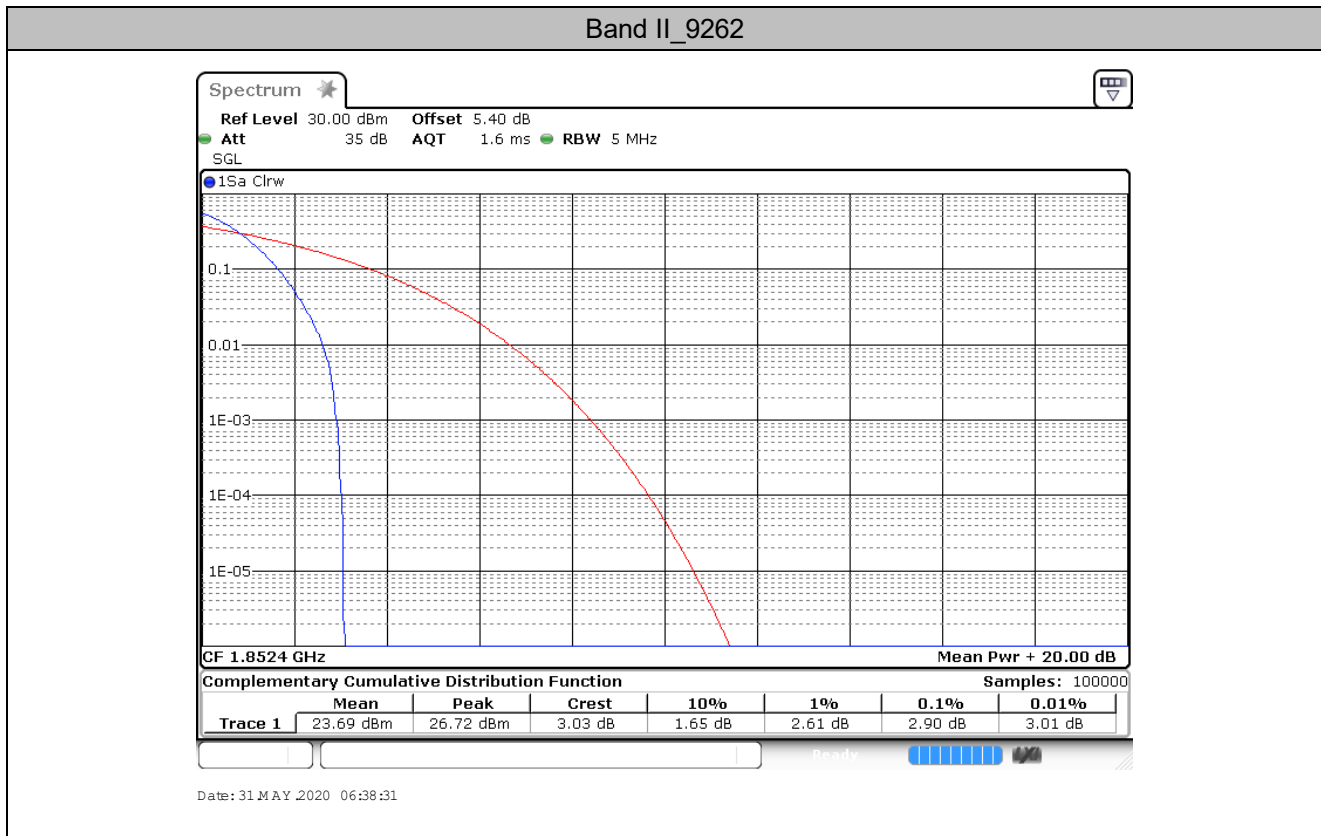
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.90	13	PASS
Band II	9400	2.93	13	PASS
Band II	9538	3.04	13	PASS
Band IV	1312	2.93	13	PASS
Band IV	1413	2.99	13	PASS
Band IV	1513	2.99	13	PASS
Band V	4132	2.90	13	PASS
Band V	4182	2.99	13	PASS
Band V	4233	3.16	13	PASS

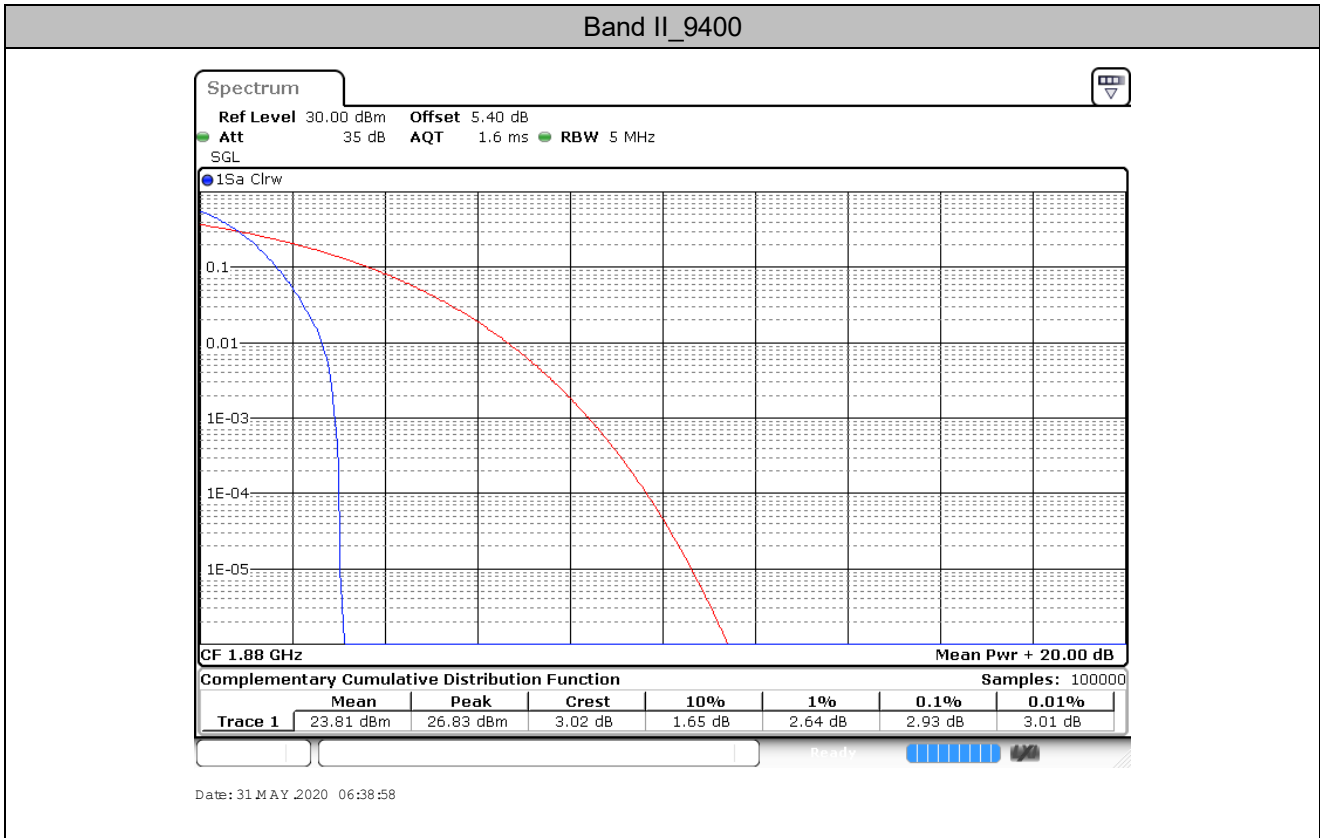
### 2.2. Test Plots



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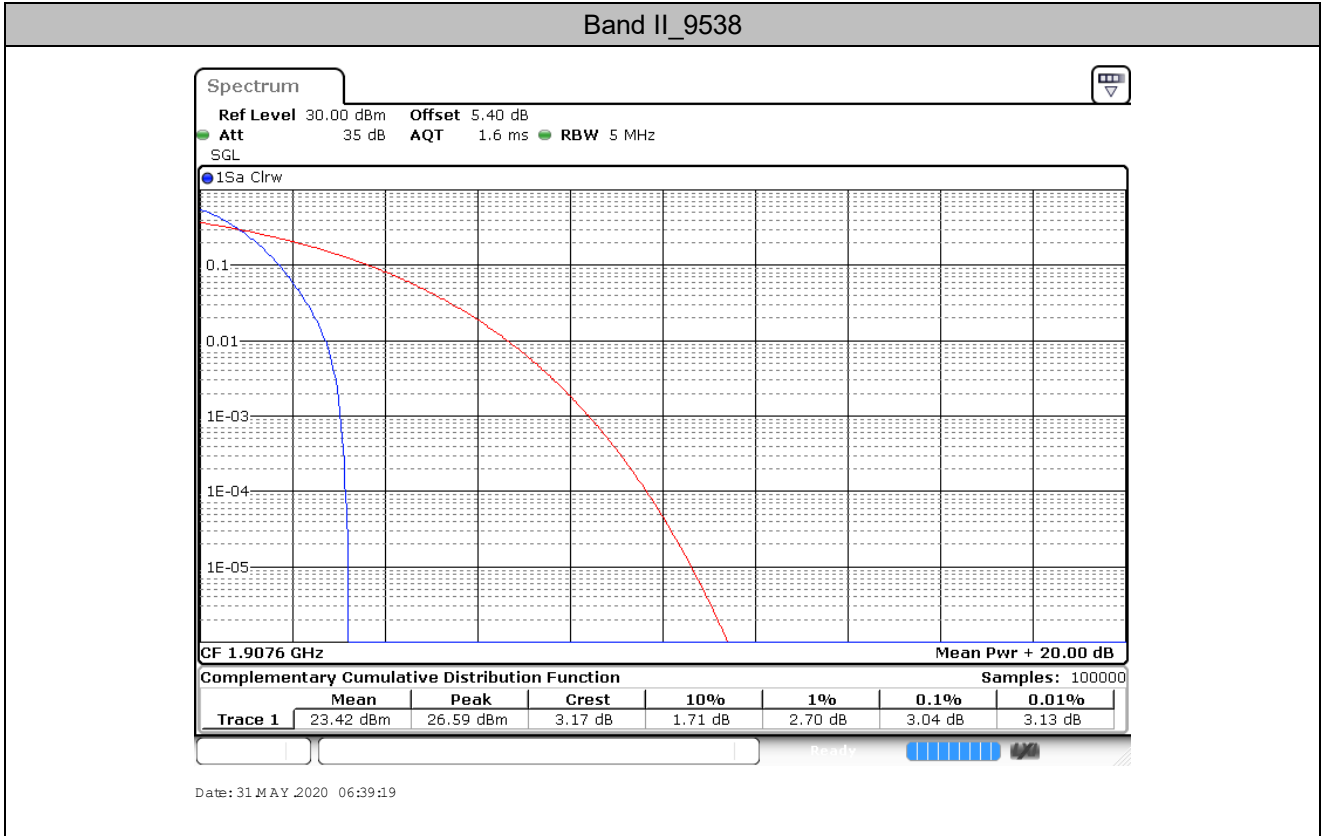
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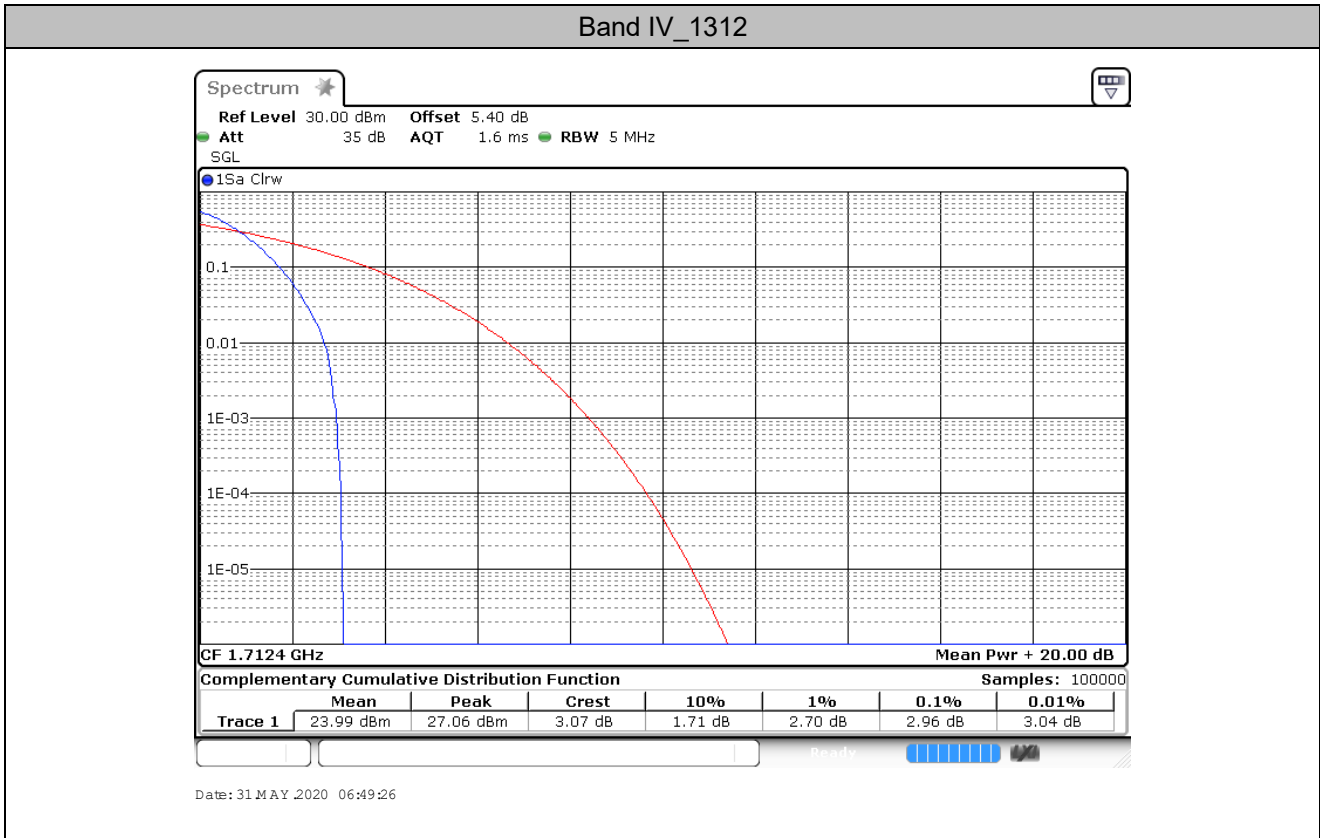
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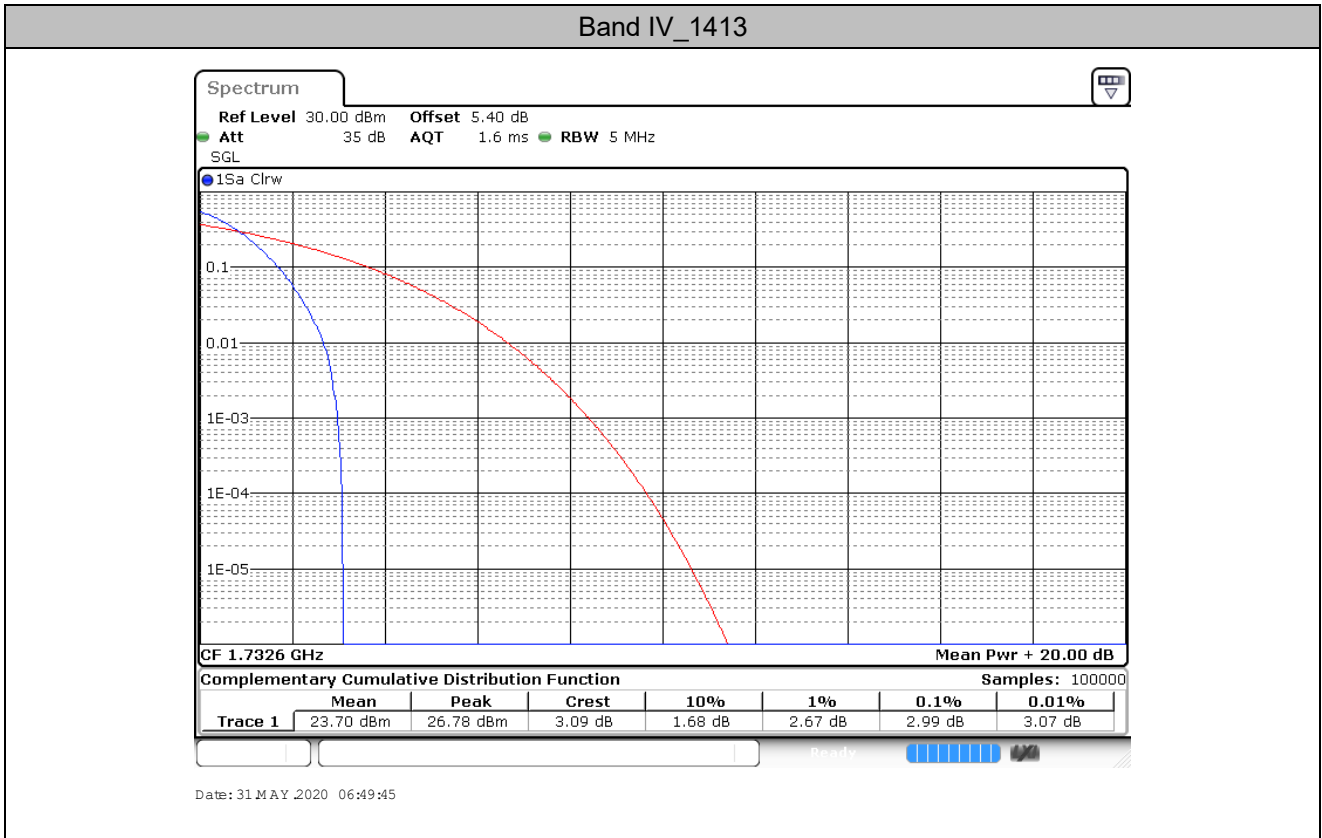
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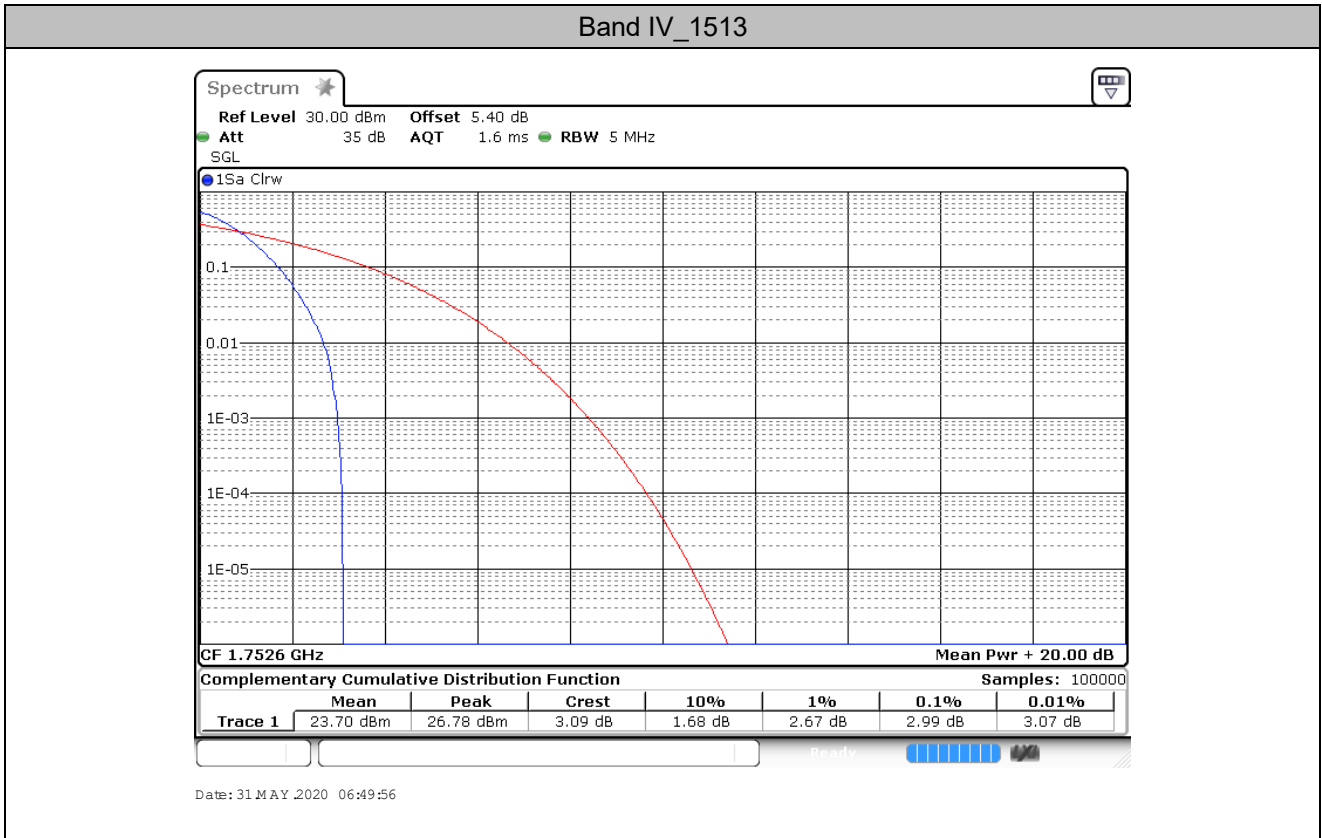
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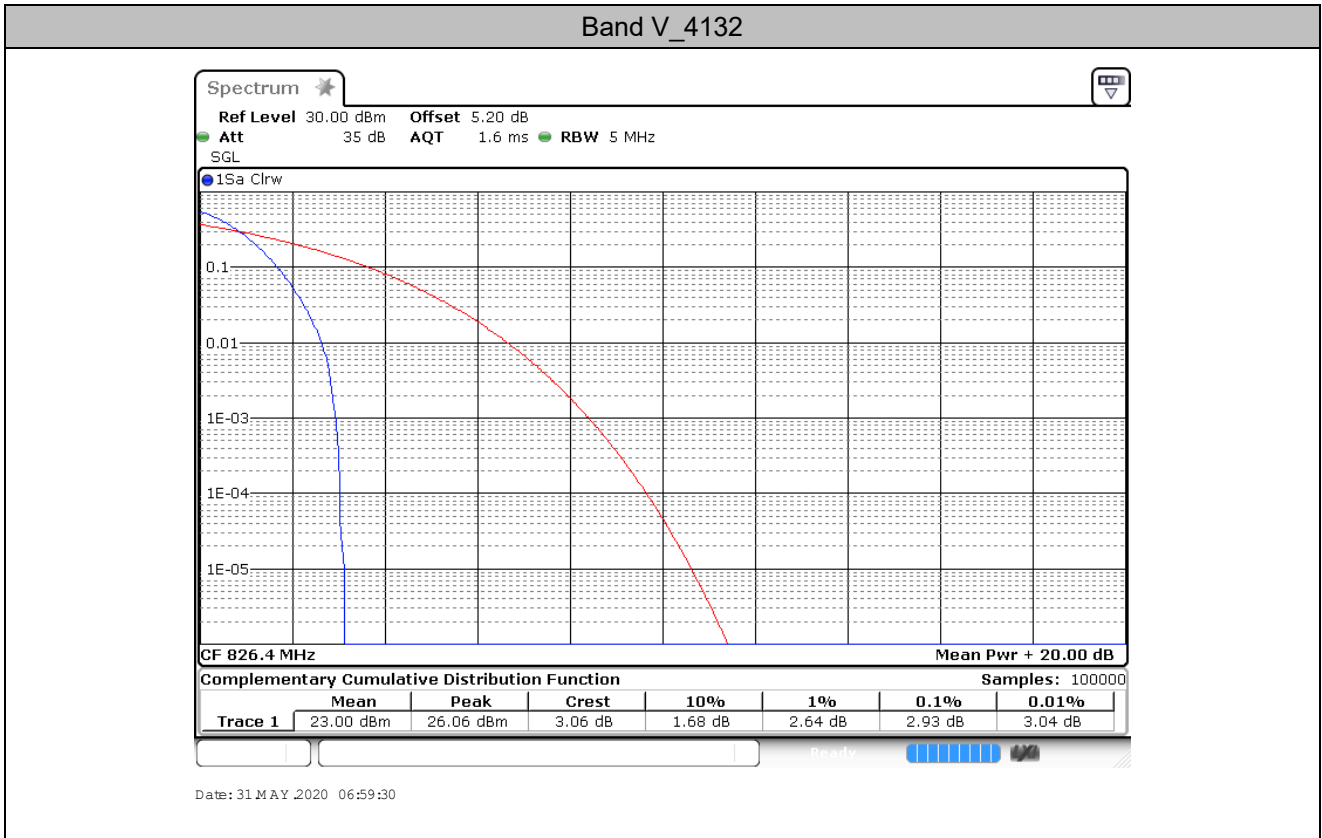
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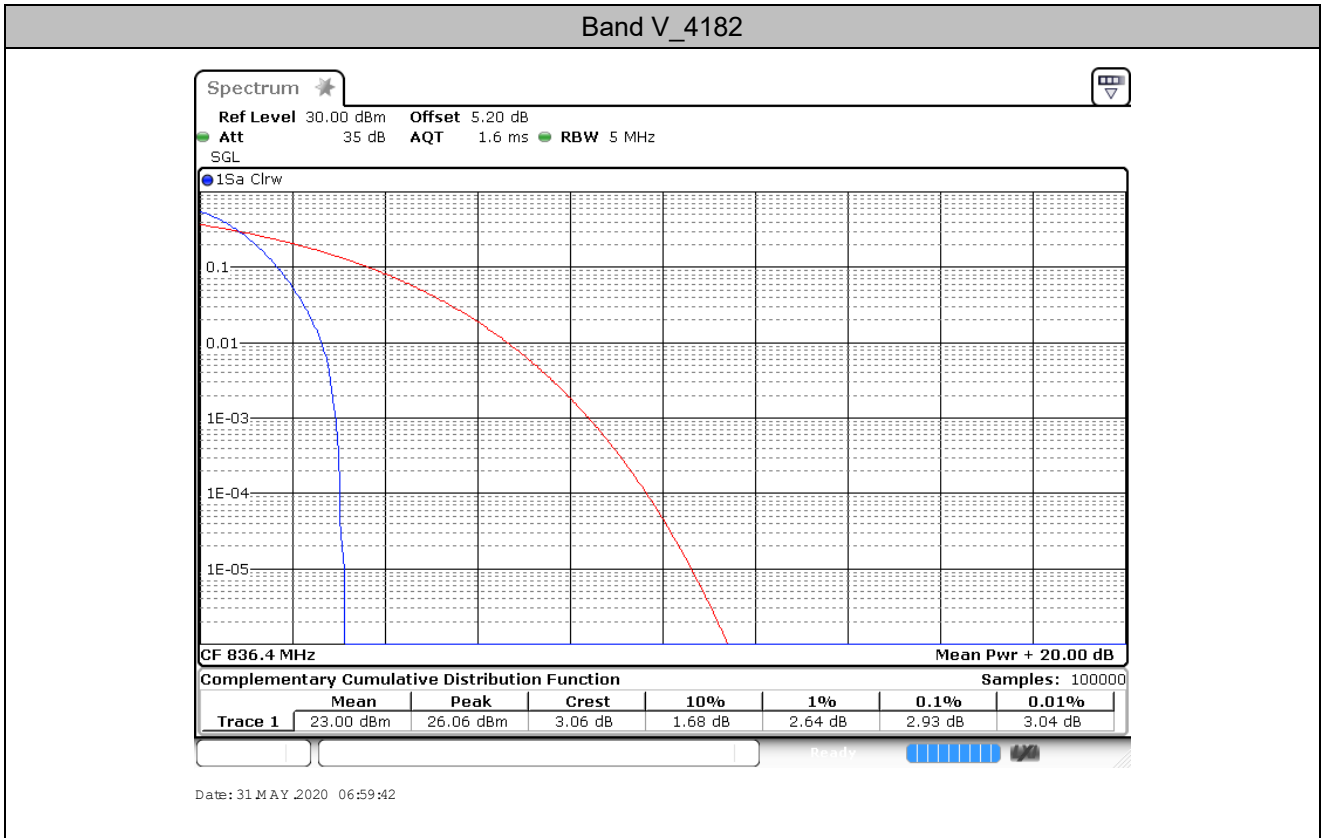
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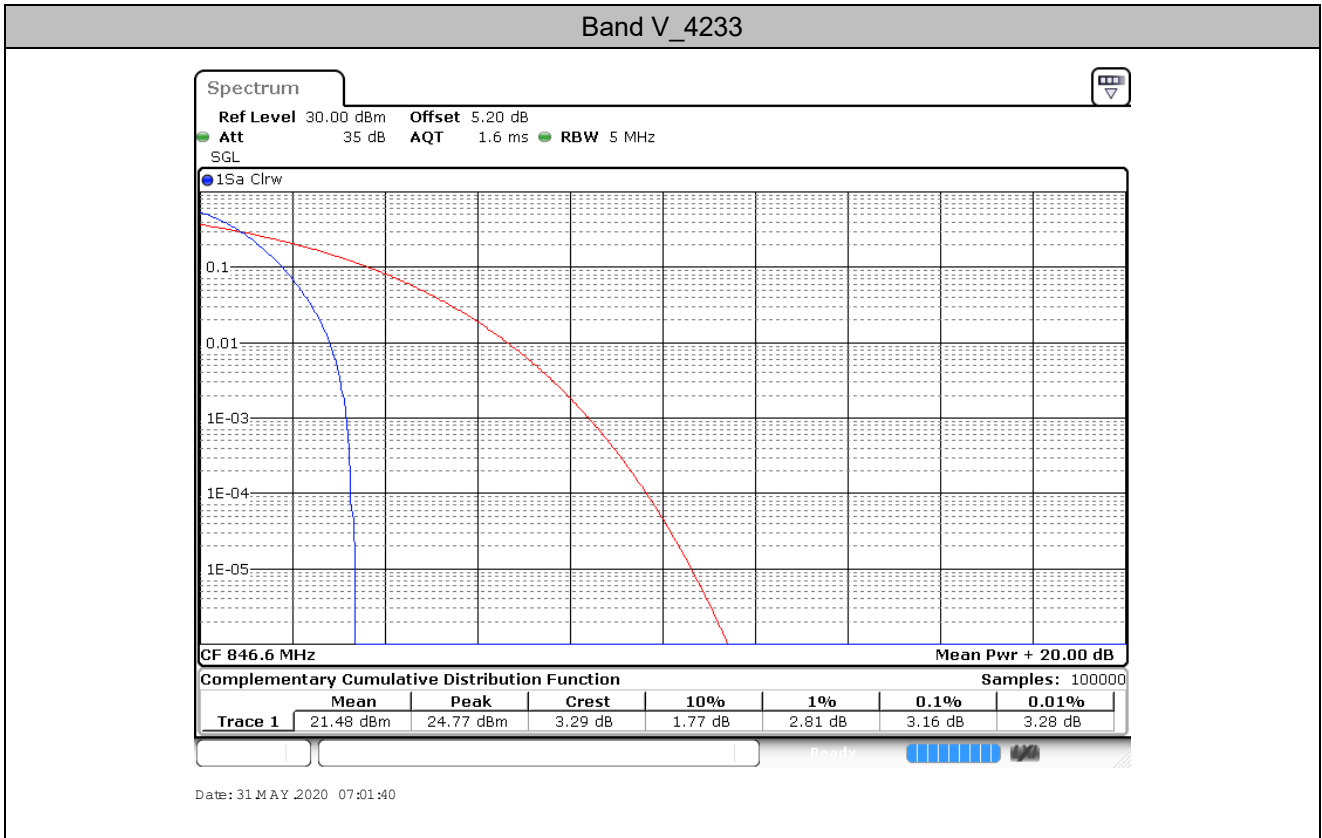
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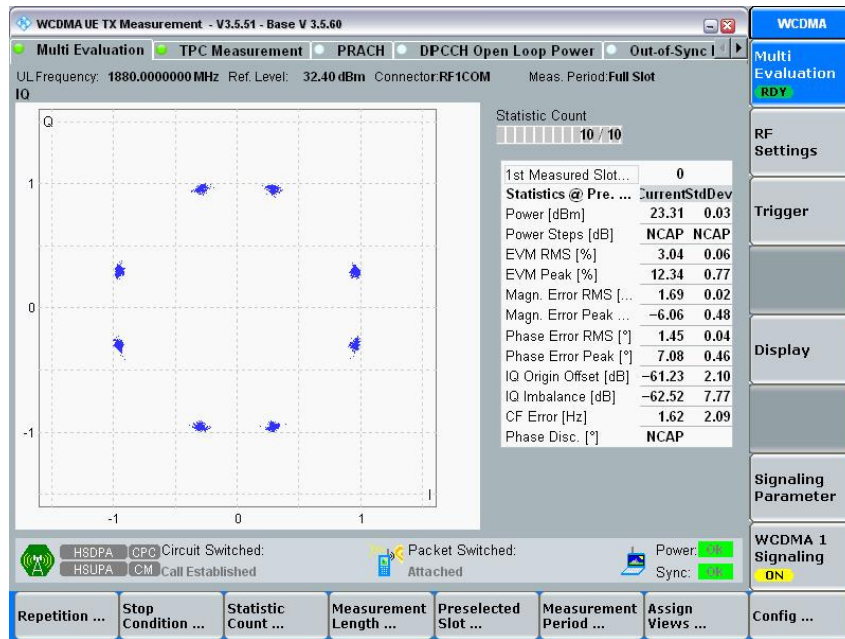


### 3. Modulation Characteristics

#### 3.1. Test Band = WCDMA Band II

##### 3.1.1. Test Mode = UMTS/TM1

##### 3.1.1.1. Test Channel = MCH

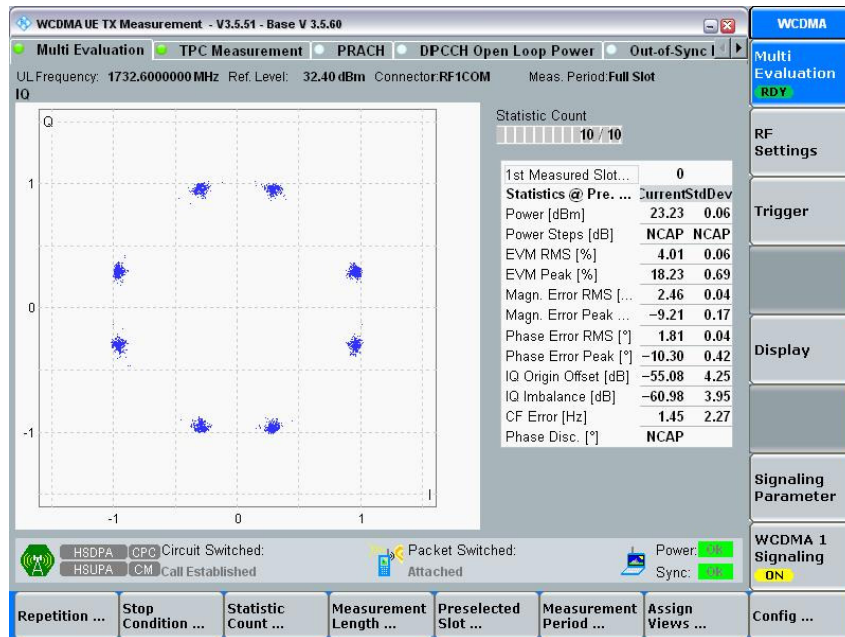


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### 3.2. Test Band = WCDMA Band IV

#### 3.2.1. Test Mode = UMTS/TM1

##### 3.2.1.1. Test Channel = MCH



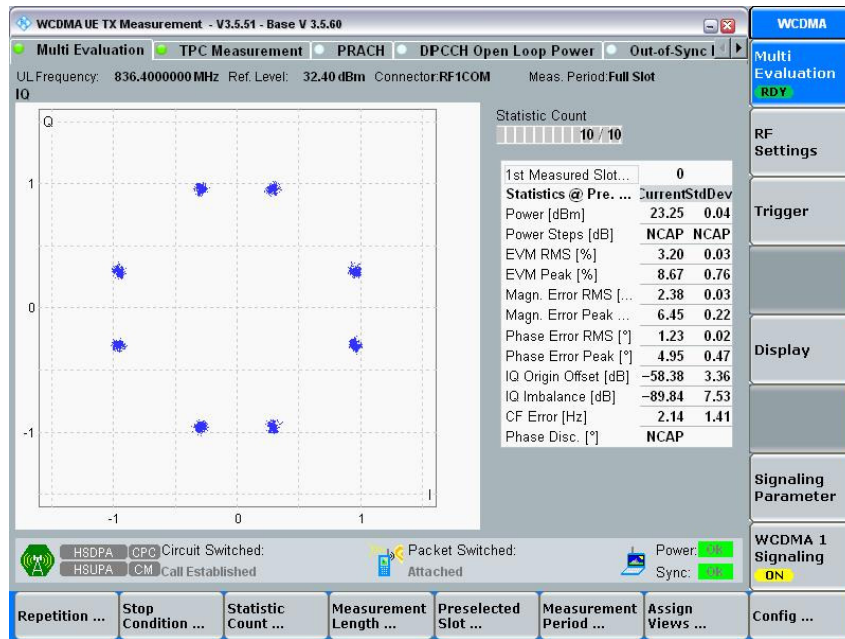
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### 3.3. Test Band = WCDMA Band V

#### 3.3.1. Test Mode = UMTS/TM1

##### 3.3.1.1. Test Channel = MCH



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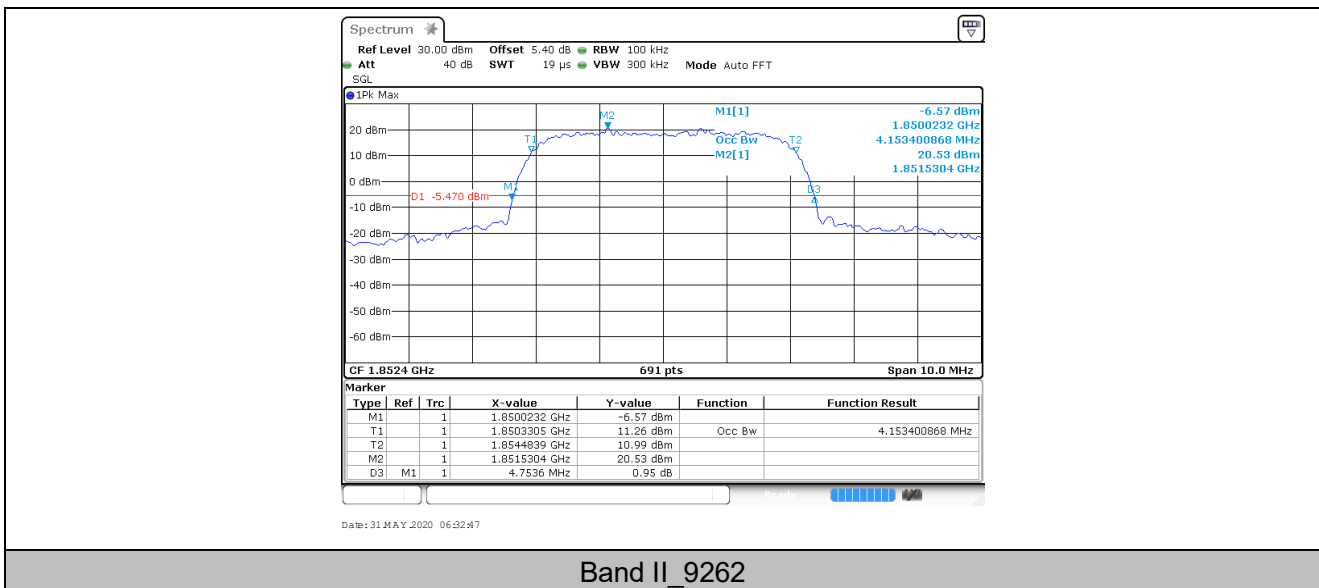
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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4153.4	4754	---	PASS
Band II	9400	4153.4	4754	---	PASS
Band II	9538	4153.4	4754	---	PASS
Band IV	1312	4138.9	4739	---	PASS
Band IV	1413	4138.9	4754	---	PASS
Band IV	1513	4138.9	4754	---	PASS
Band V	4132	4138.9	4739	---	PASS
Band V	4182	4124.5	4725	---	PASS
Band V	4233	4124.5	4739	---	PASS

### 4.2. Test Plots



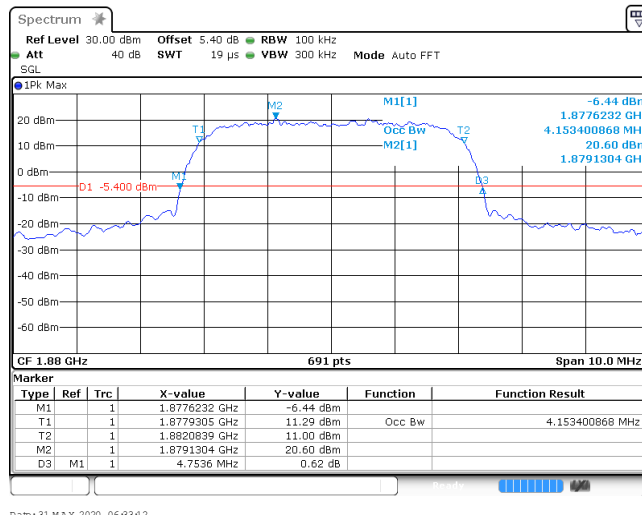
Band II\_9262



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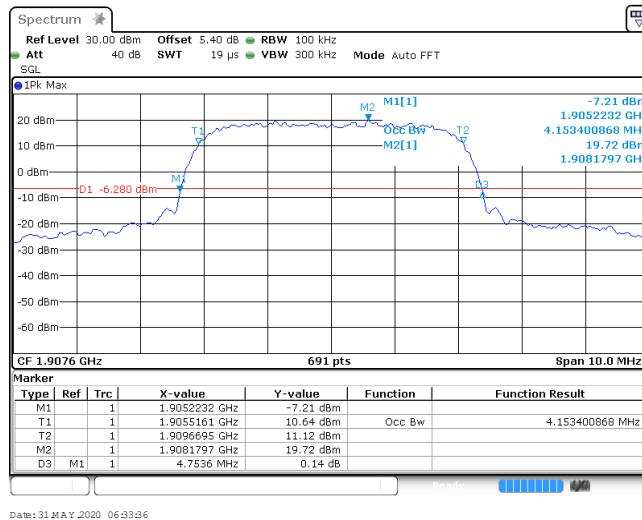
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Date: 31 MAY 2020 06:33:12

Band II\_9400



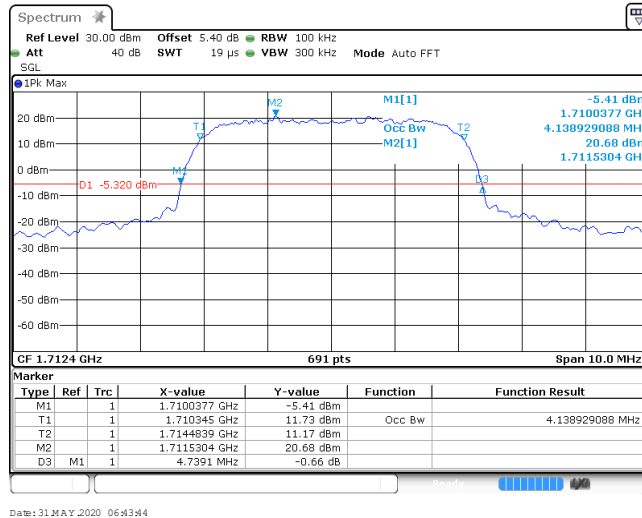
Date: 31 MAY 2020 06:33:06

Band II\_9538



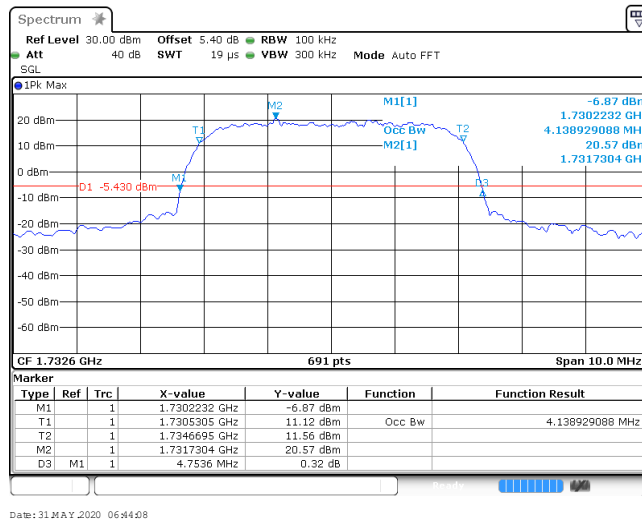
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Date: 31 MAY 2020 06:43:44

**Band IV\_1312**



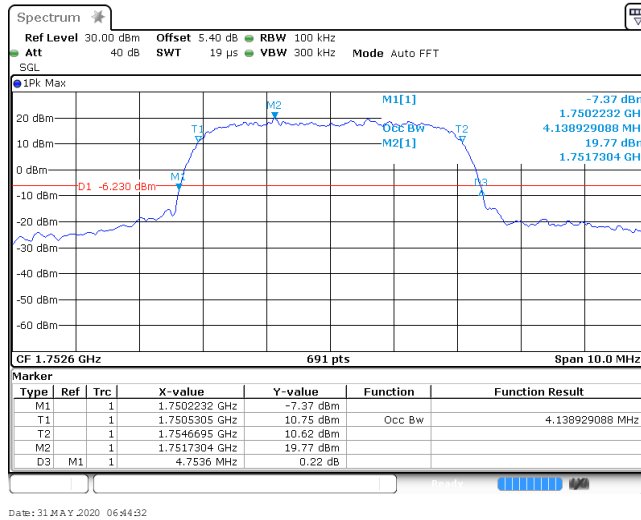
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**Band IV\_1413**

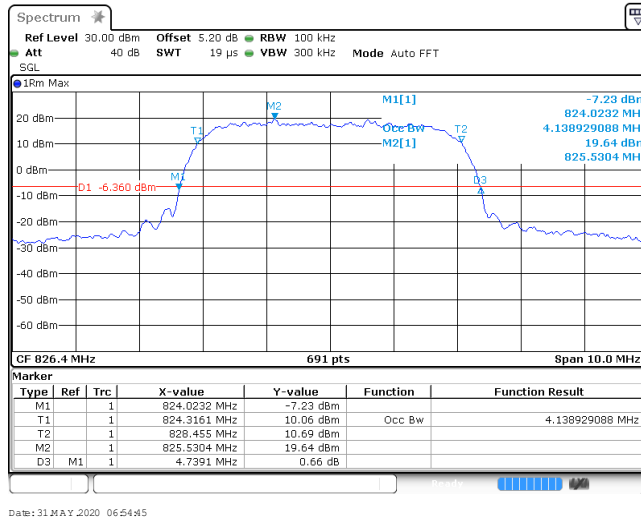


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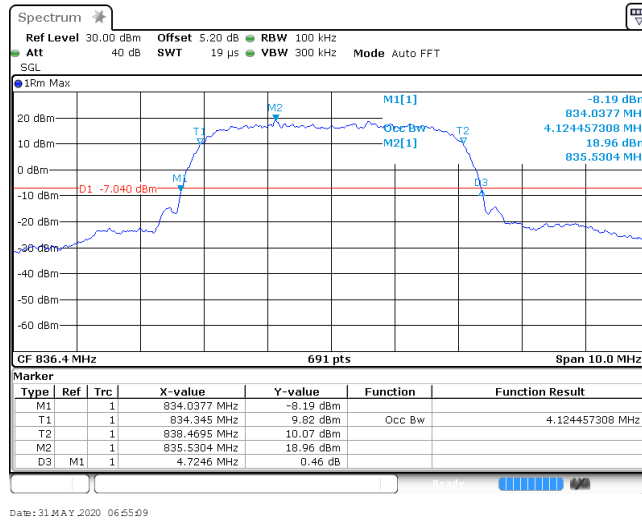
**Band IV\_1513**



**Band V\_4132**

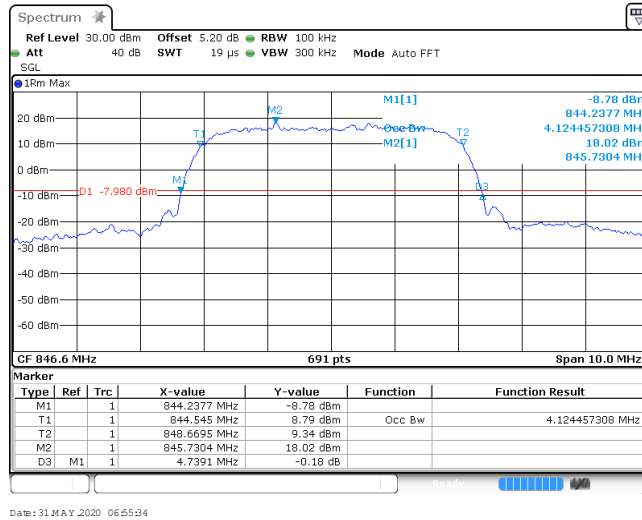


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Date: 31 MAY 2020 06:55:09

**Band V\_4182**



Date: 31 MAY 2020 06:55:04

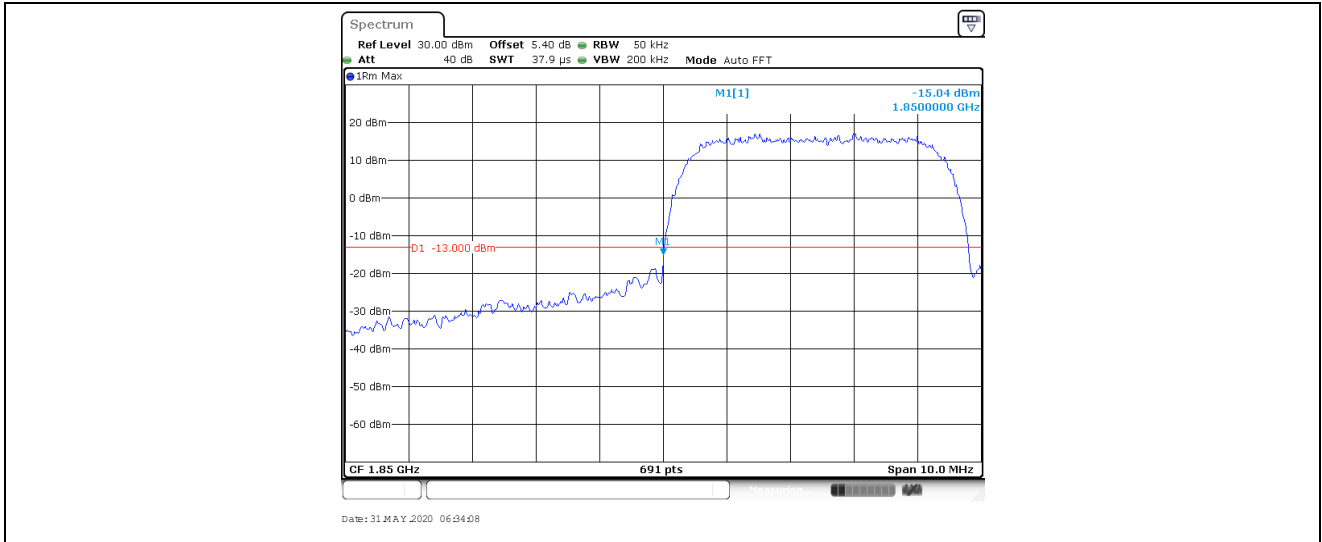
**Band V\_4233**



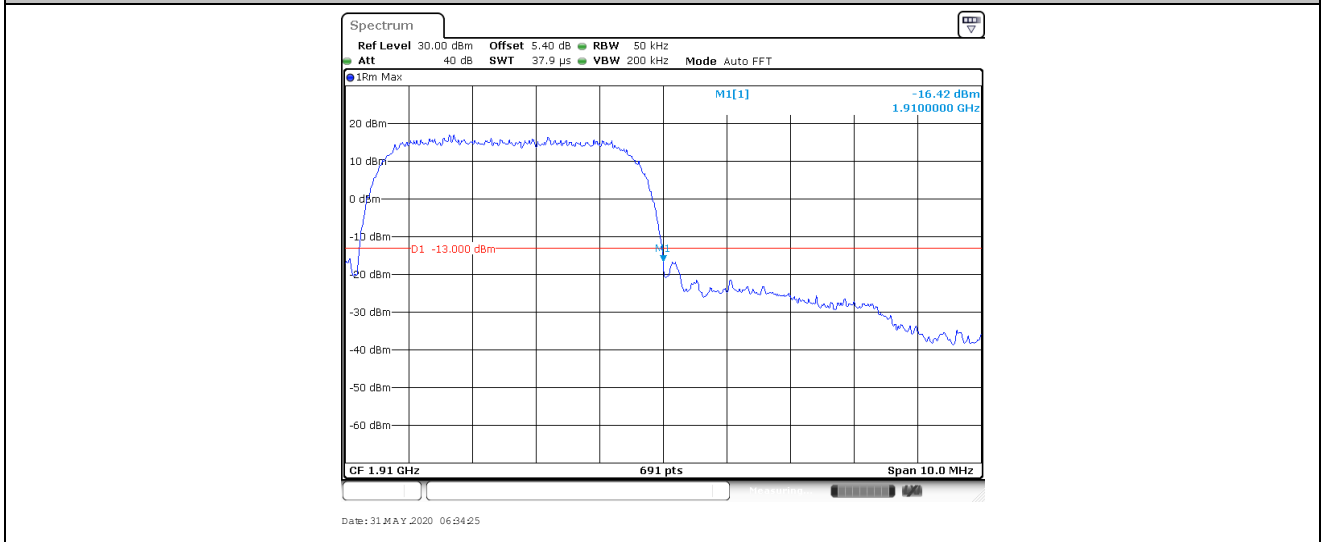
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## 5. Band Edge Compliance

### 5.1. Test Plots



Band II\_9262

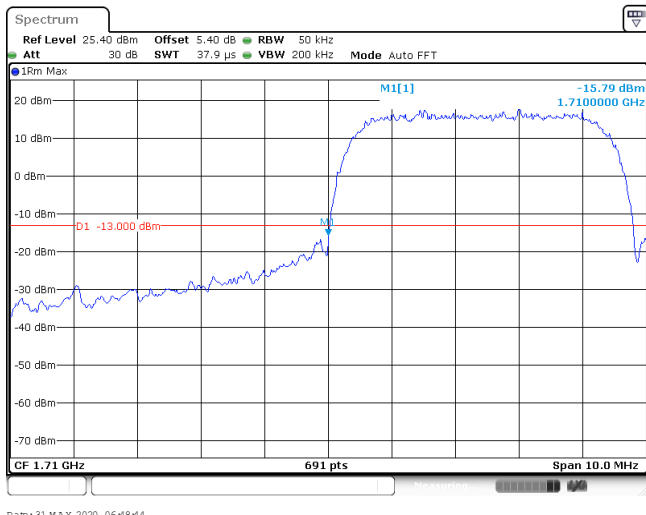


Band II\_9538

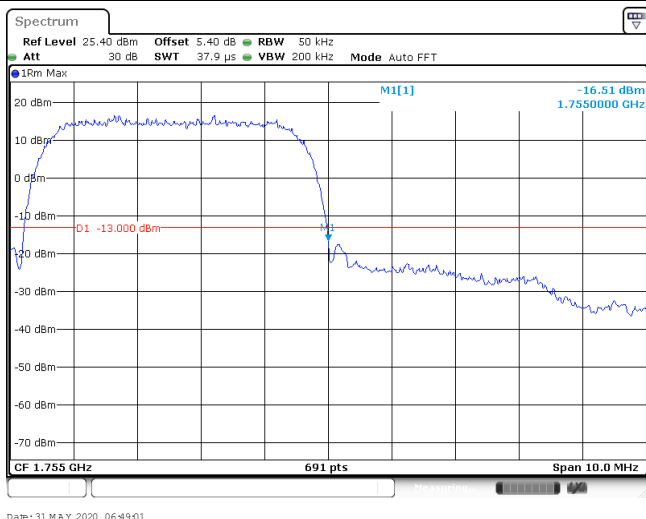


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**Band IV\_1312**



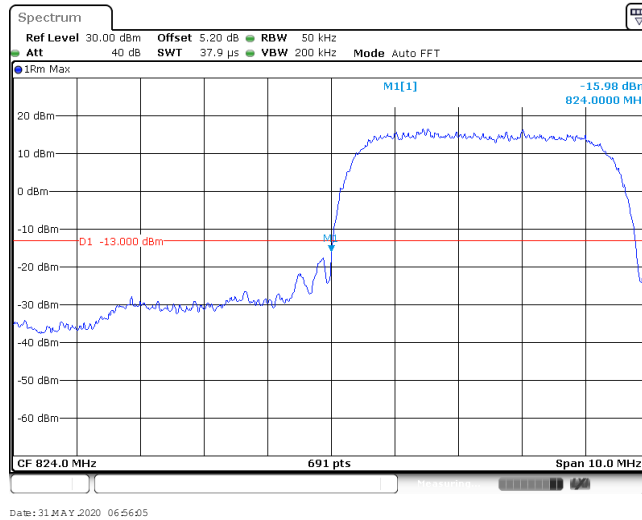
**Band IV\_1513**



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**Band V\_4132**



**Band V\_4233**



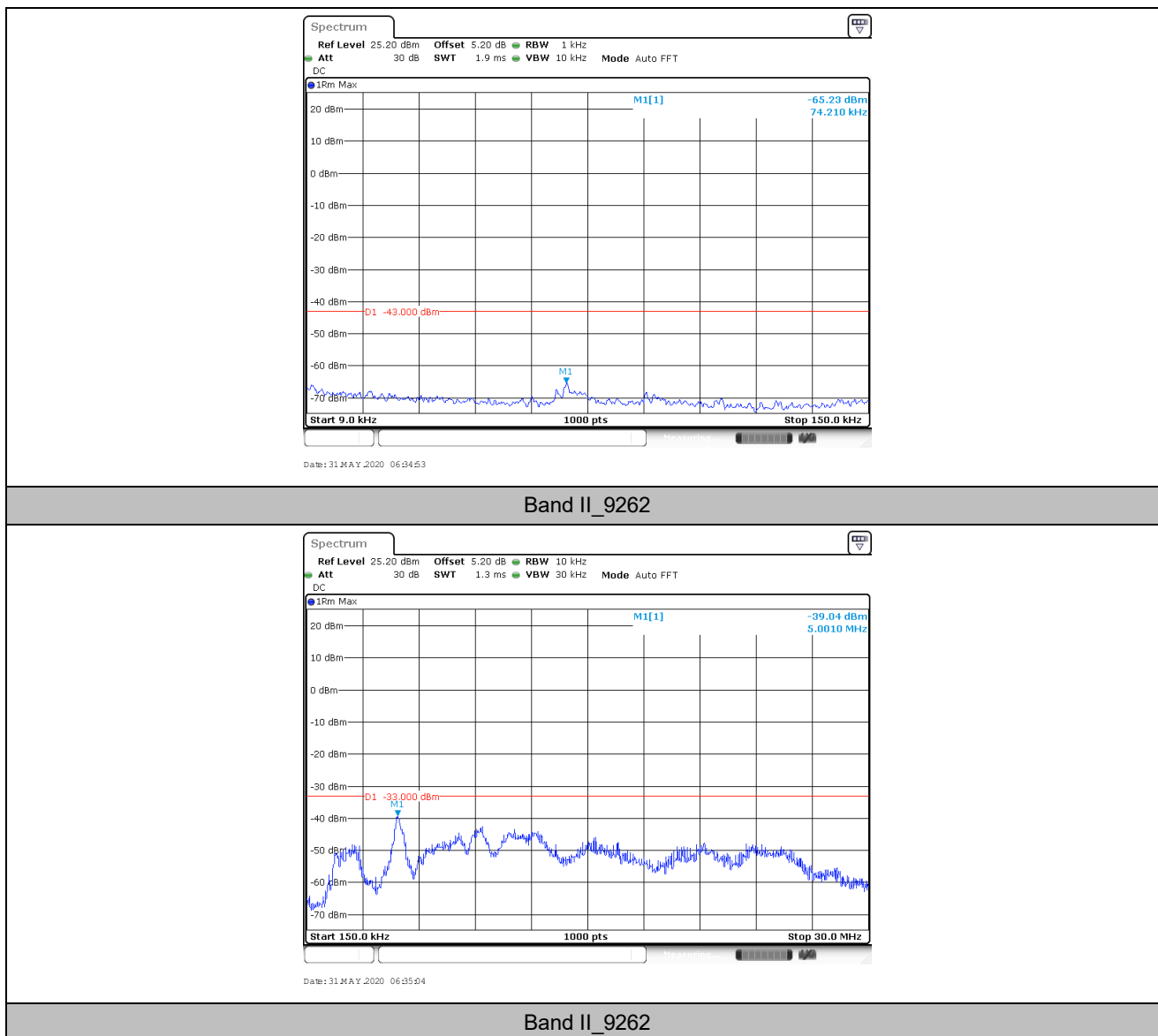
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## 6. Spurious Emission at Antenna Terminal

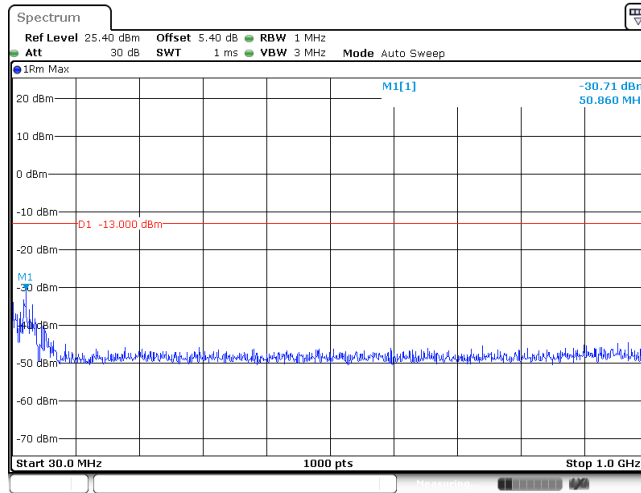
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

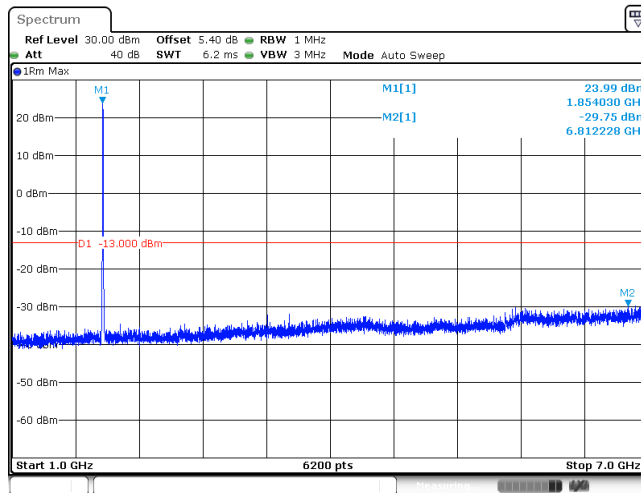


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Date: 31 MAY 2020 06:35:55

**Band II\_9262**

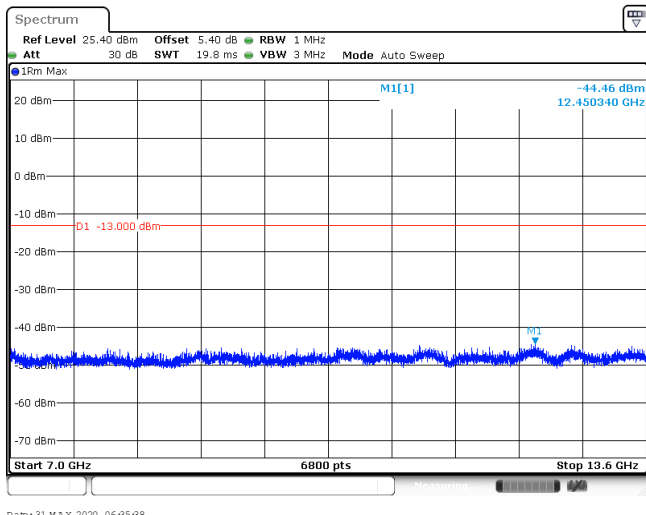


Date: 31 MAY 2020 06:35:27

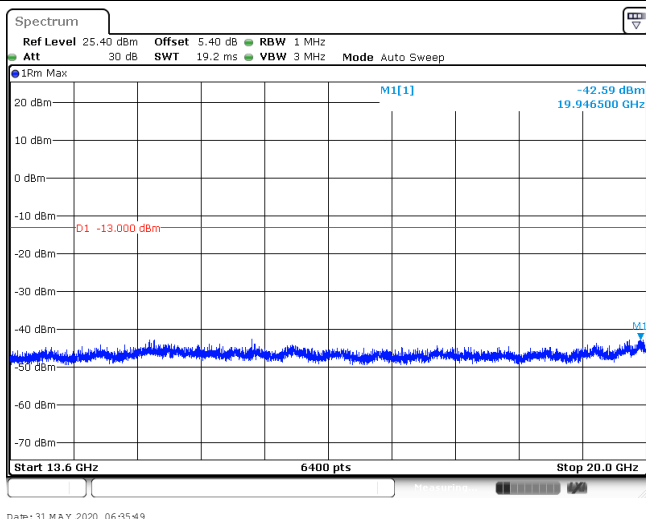
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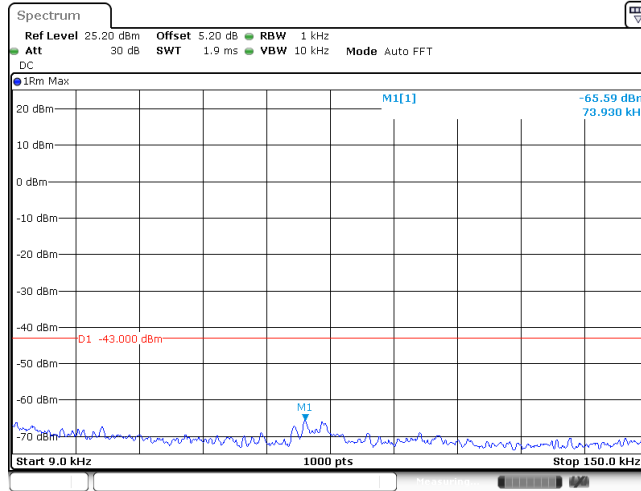
Band II\_9262



Band II\_9262

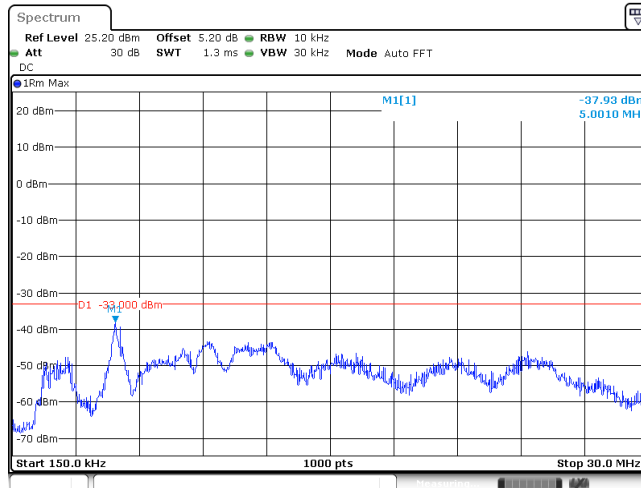


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**Band II\_9400**



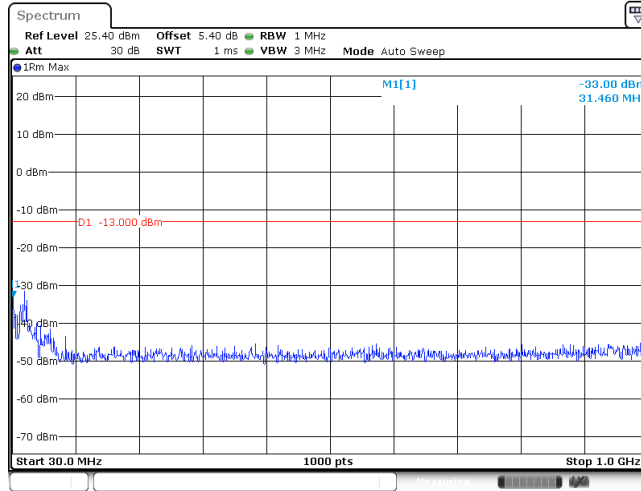
Date: 31 MAY 2020 06:36:03

**Band II\_9400**



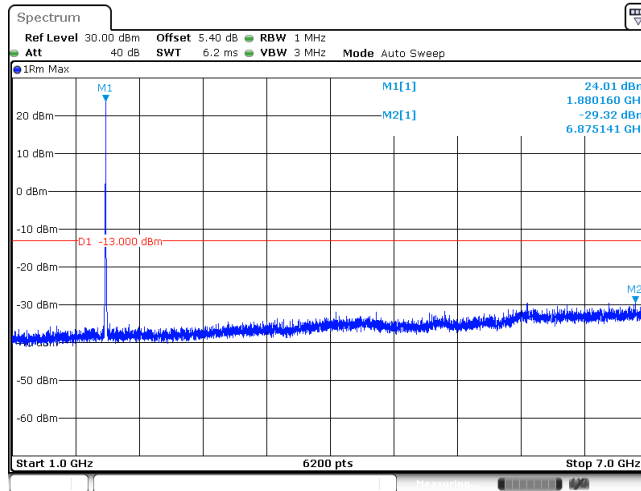
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Date: 31 MAY 2020 06:36:23

**Band II\_9400**

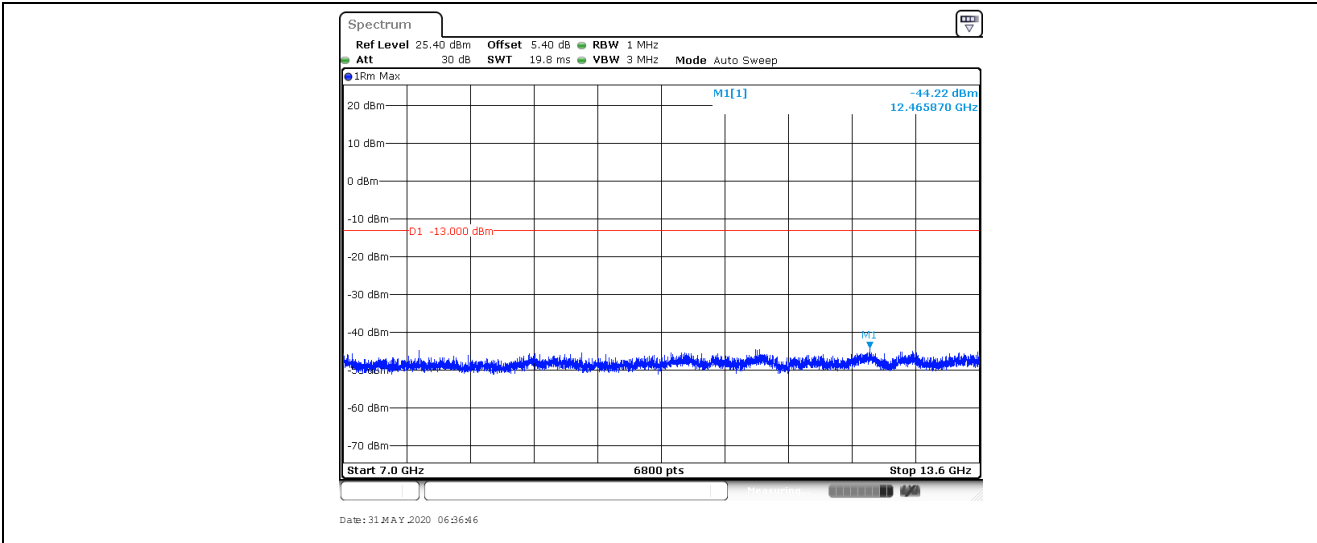


Date: 31 MAY 2020 06:36:25

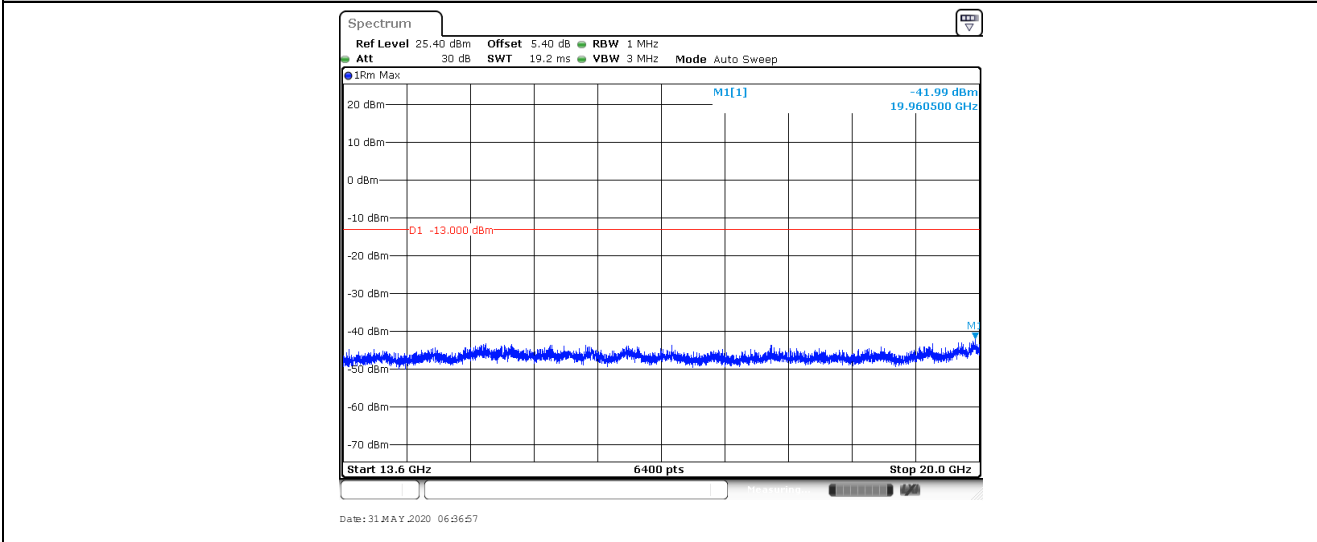
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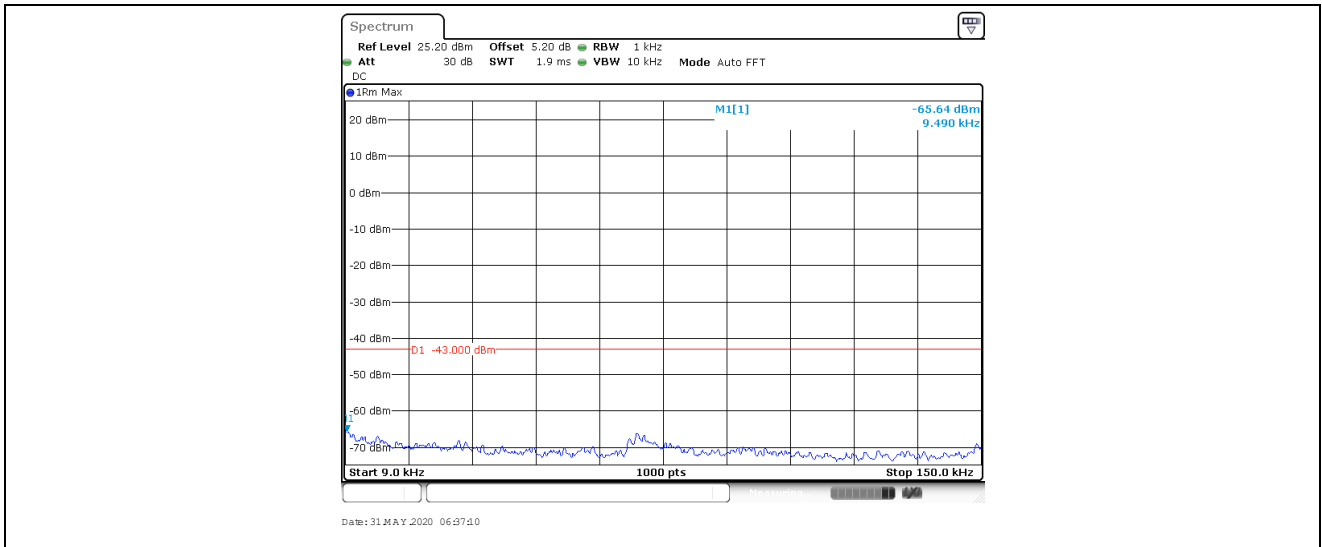


Band II\_9400

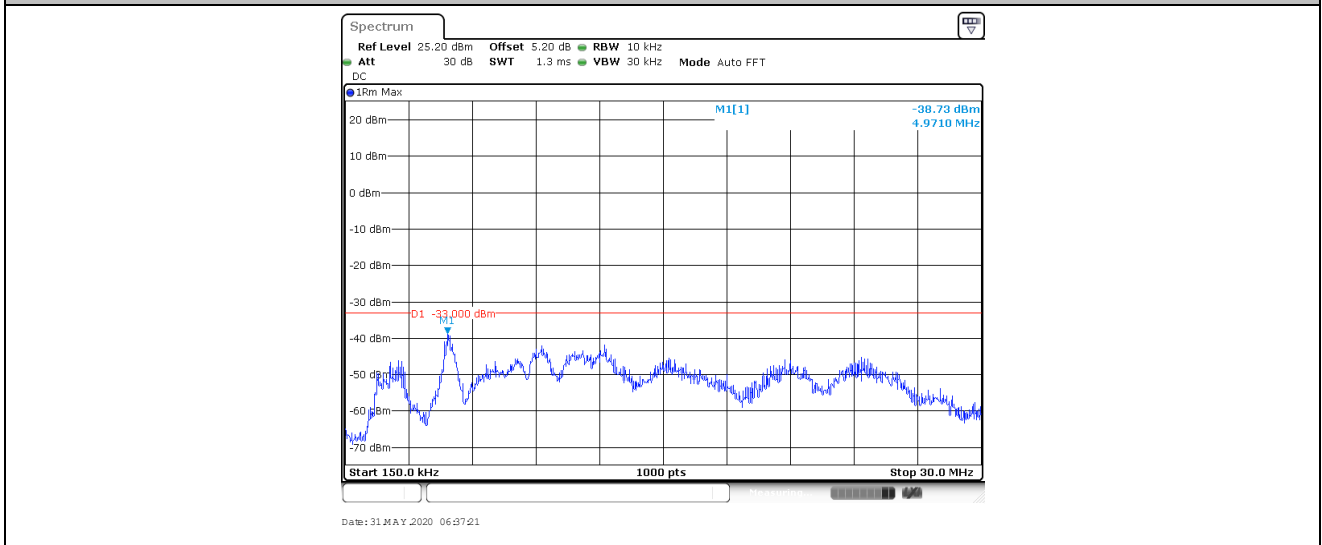


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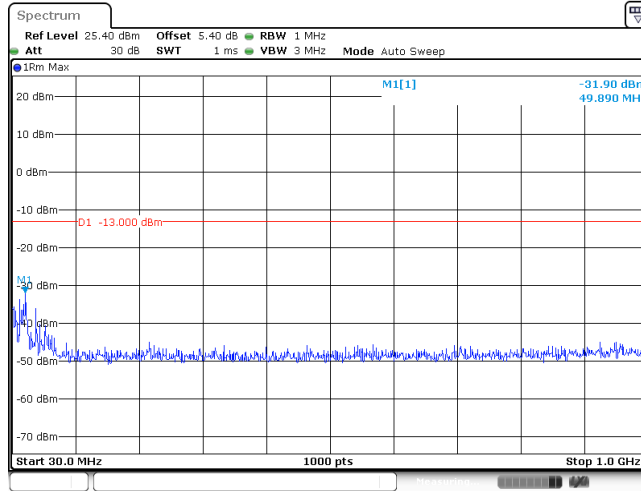


Band II\_9538



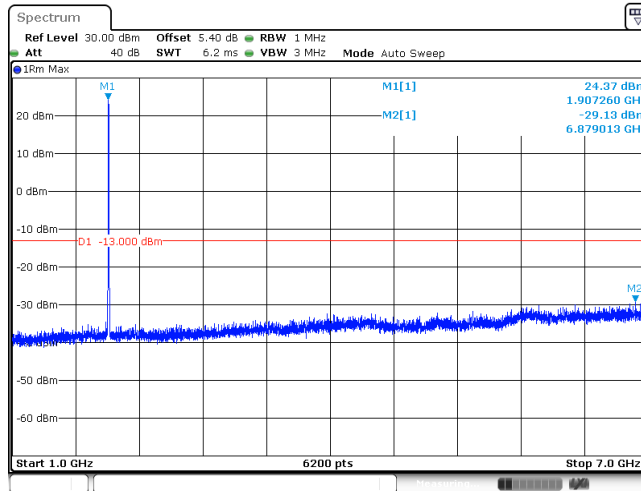
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Date: 31 MAY 2020 06:37:32

**Band II\_9538**



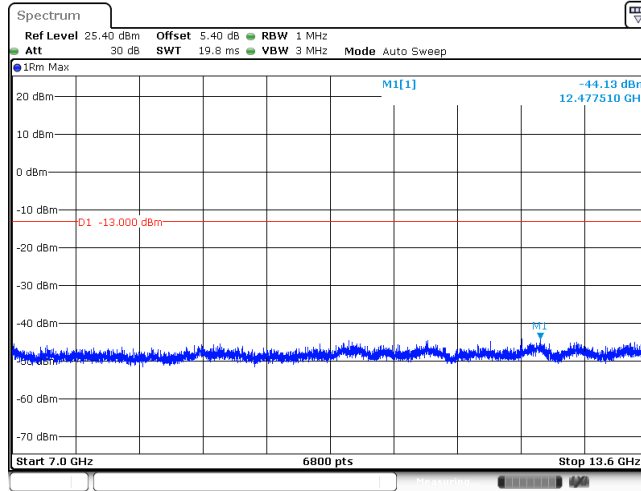
Date: 31 MAY 2020 06:37:44

**Band II\_9538**



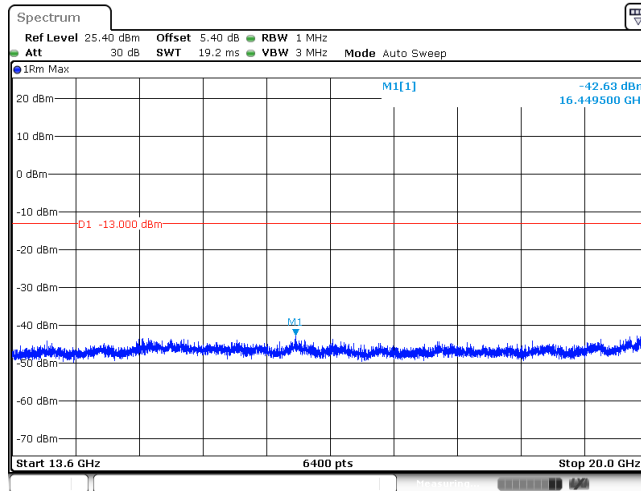
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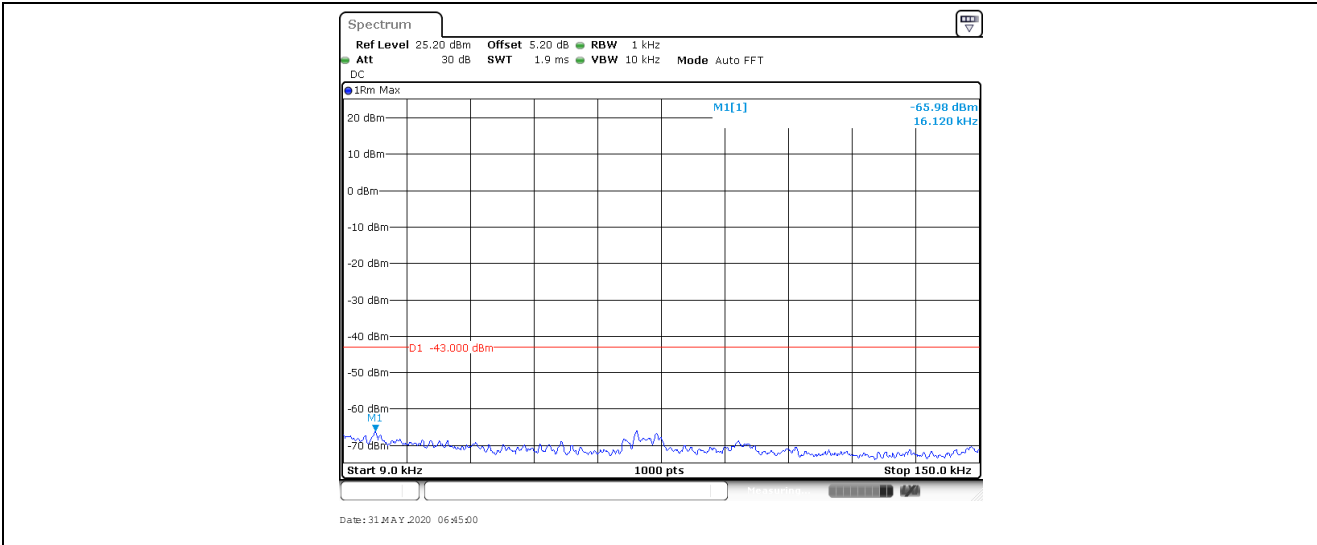
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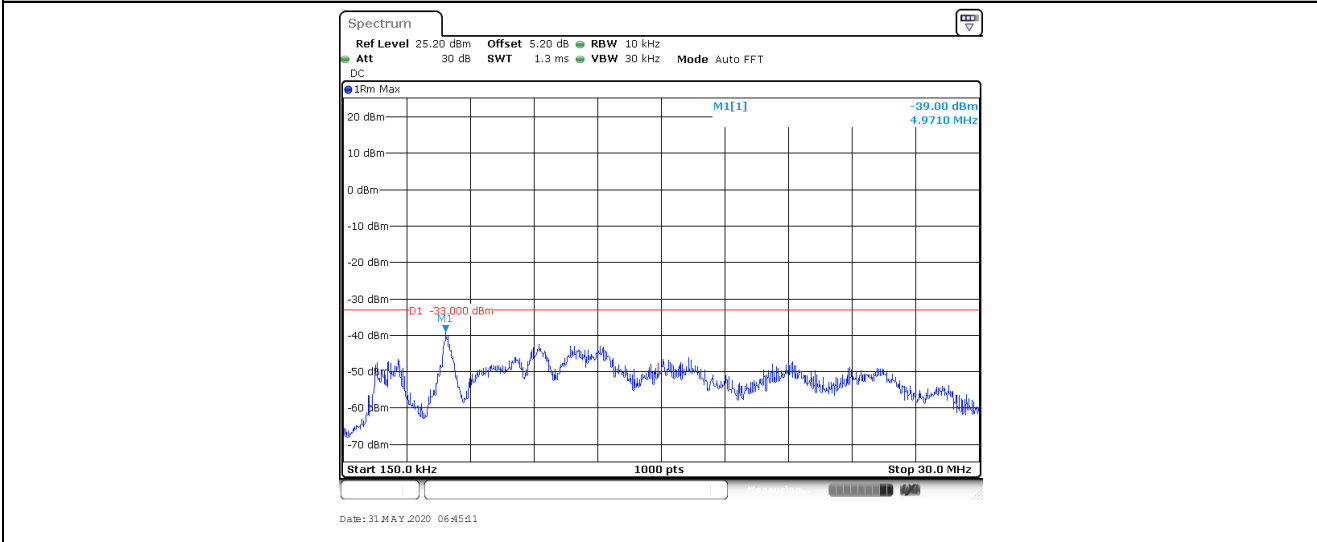
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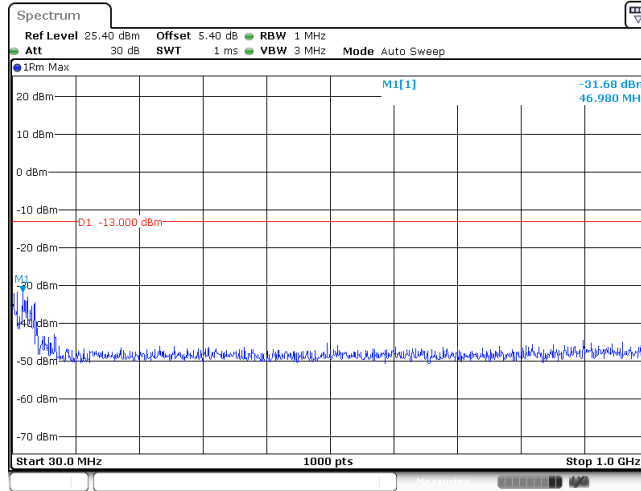
Band IV\_1312



Band IV\_1312

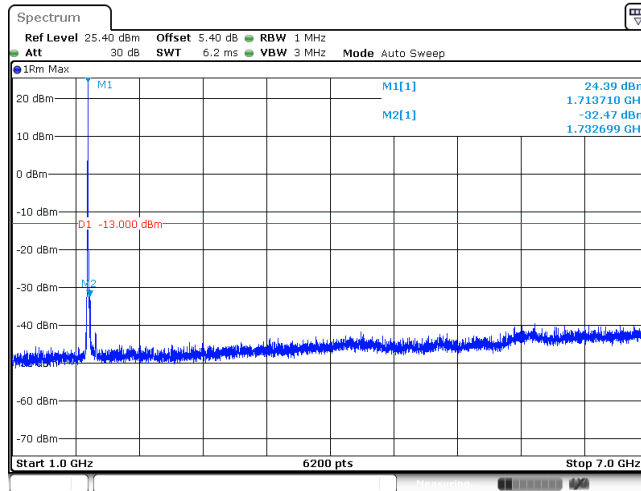


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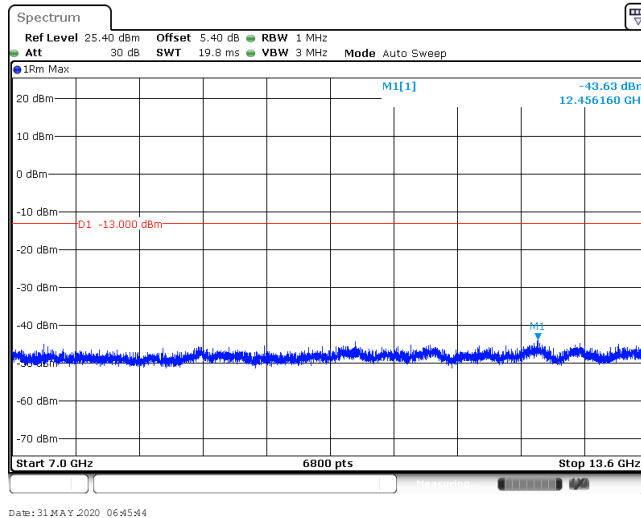


Date: 31 MAY 2020 06:45:04

Band IV\_1312

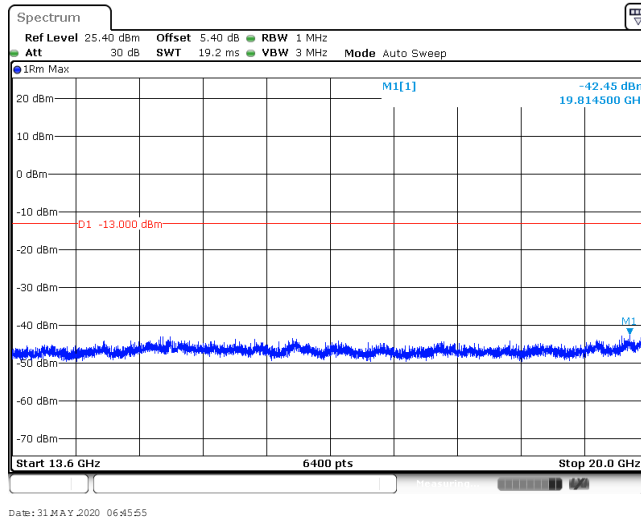


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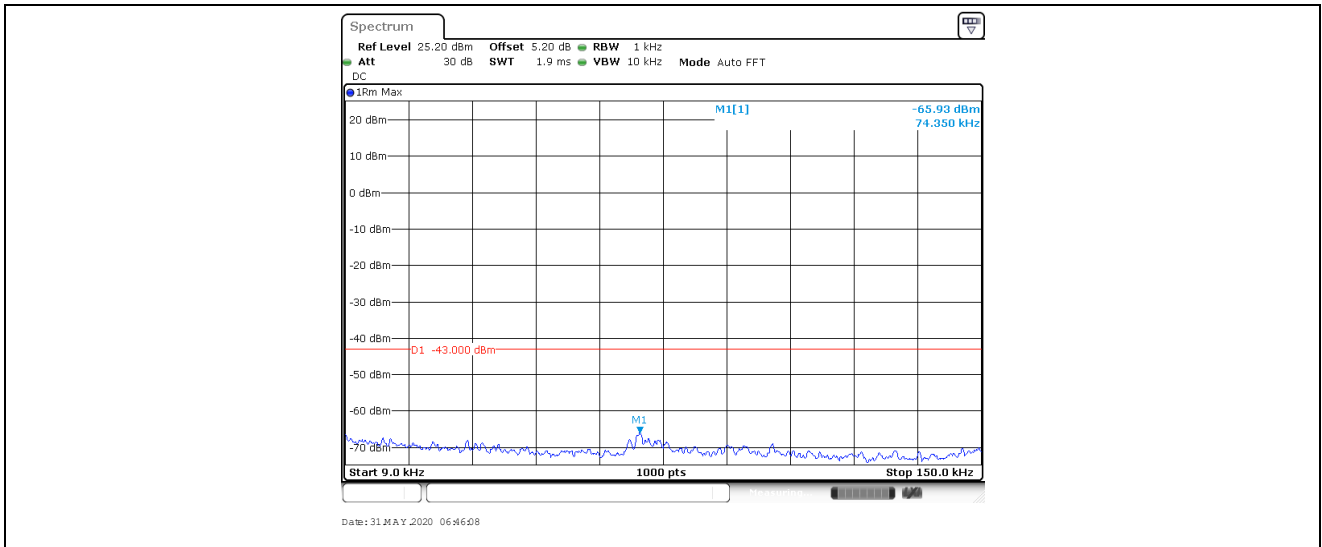


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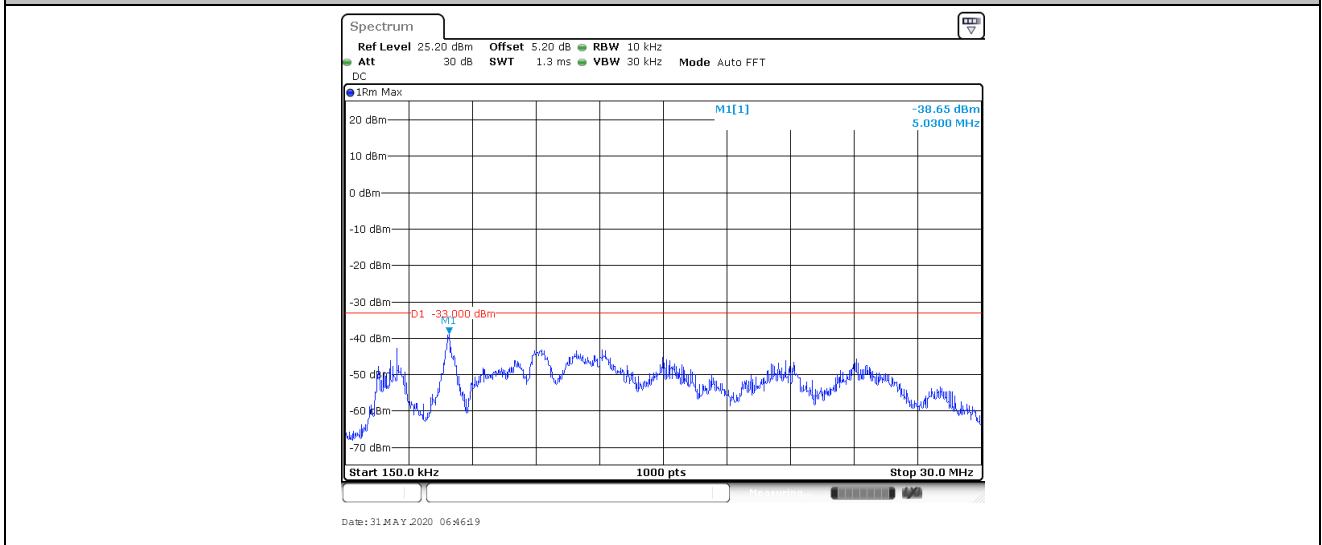
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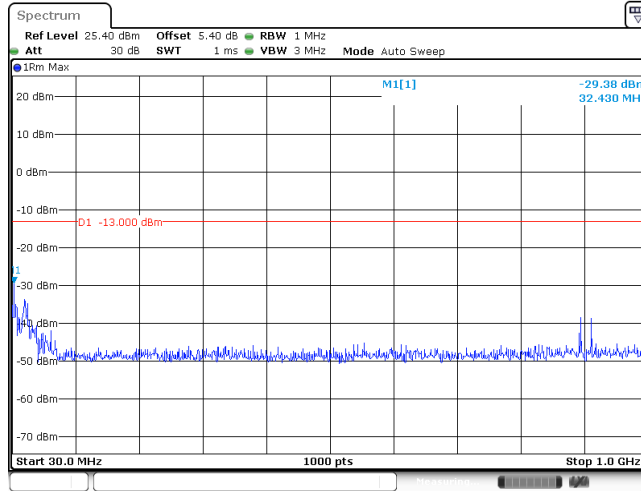
Band IV\_1413



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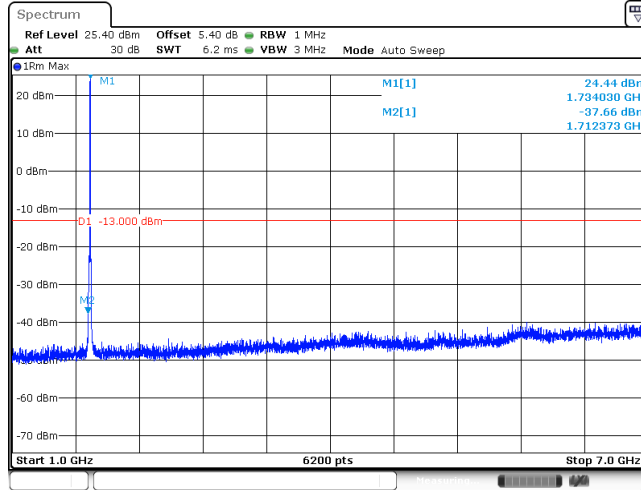


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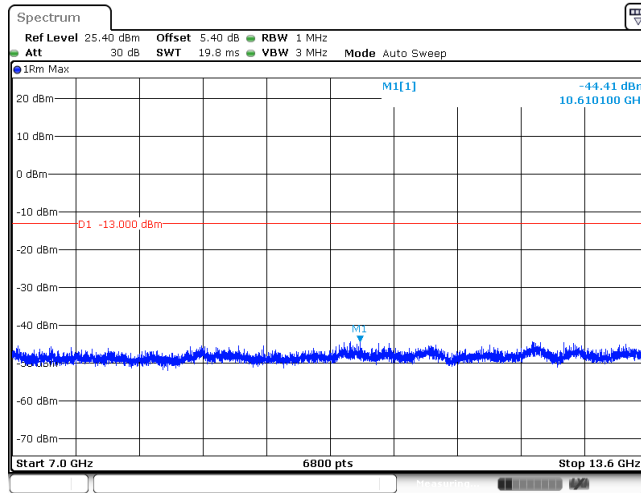
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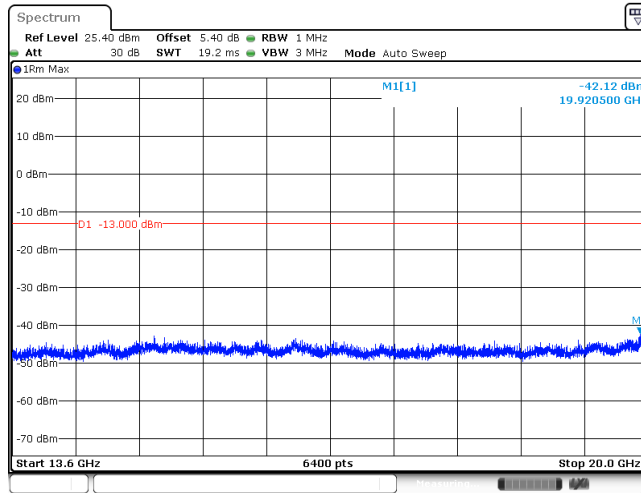
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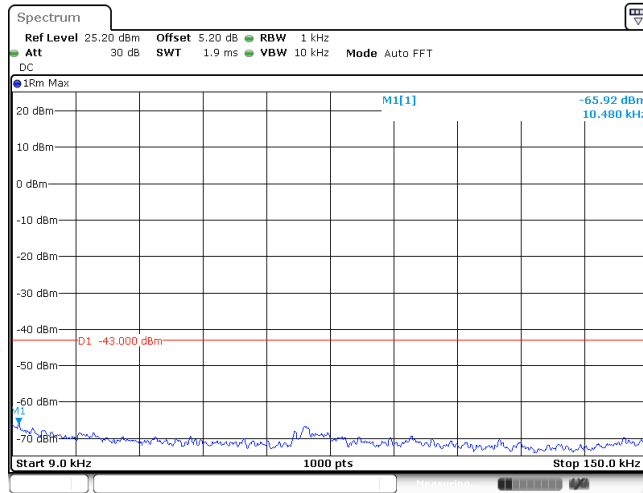
Date: 31 MAY 2020 06:47:04

Band IV\_1413



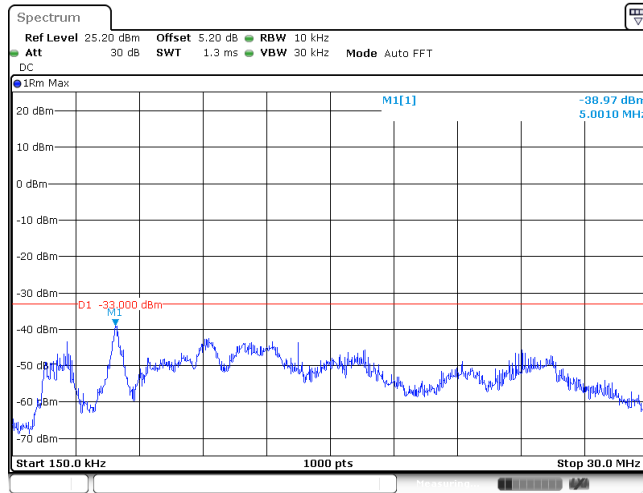
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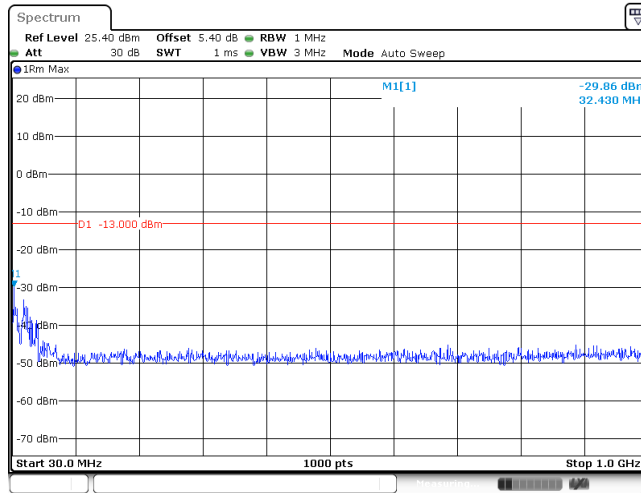


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**Band IV\_1513**

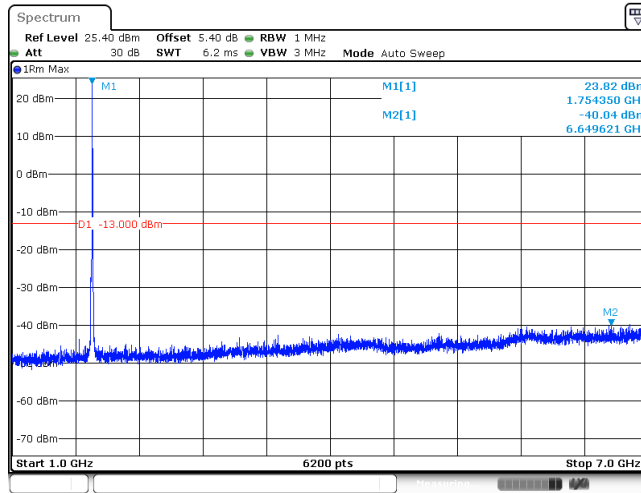


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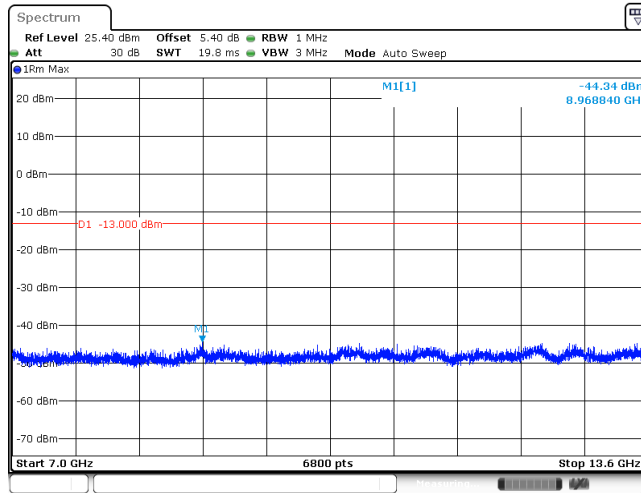


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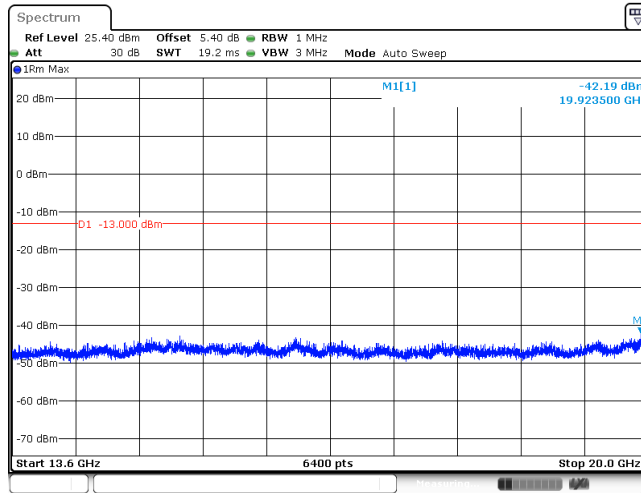


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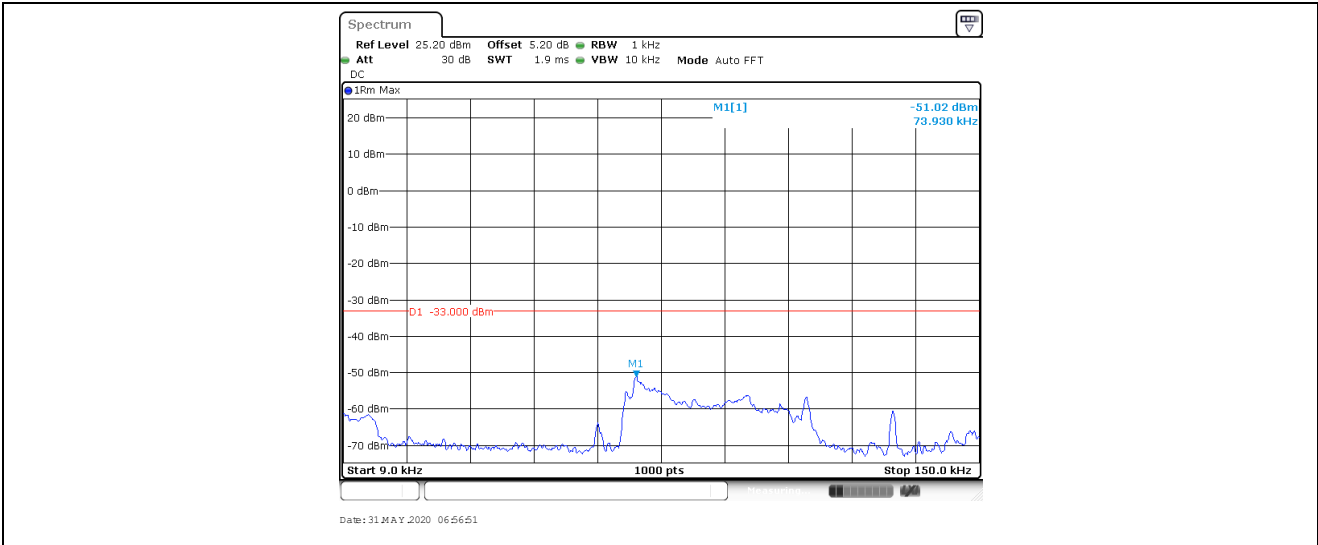


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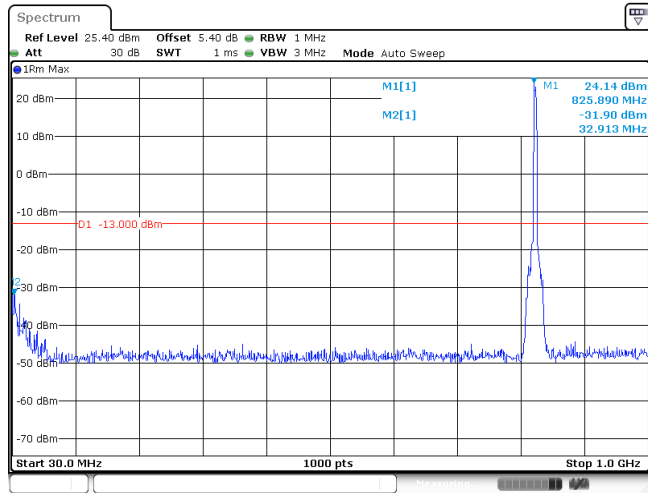


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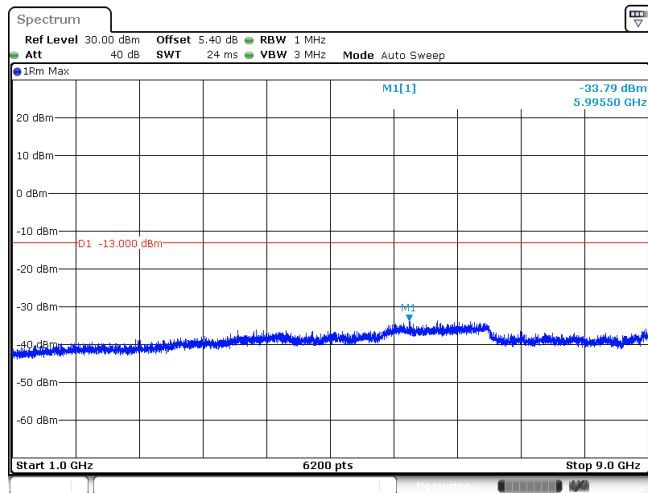
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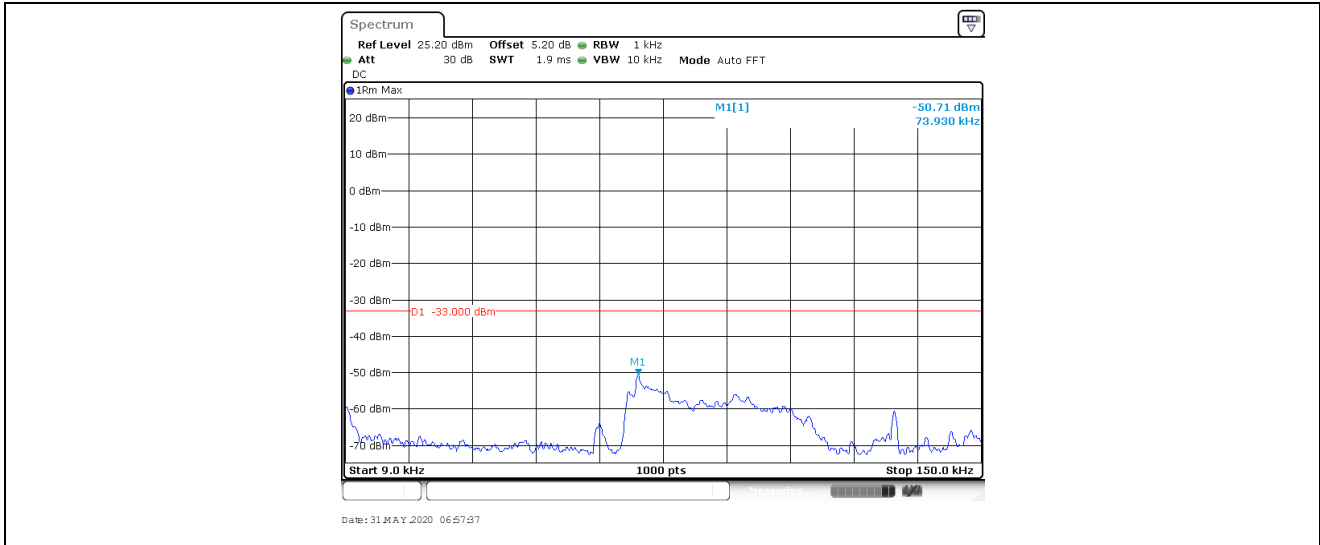
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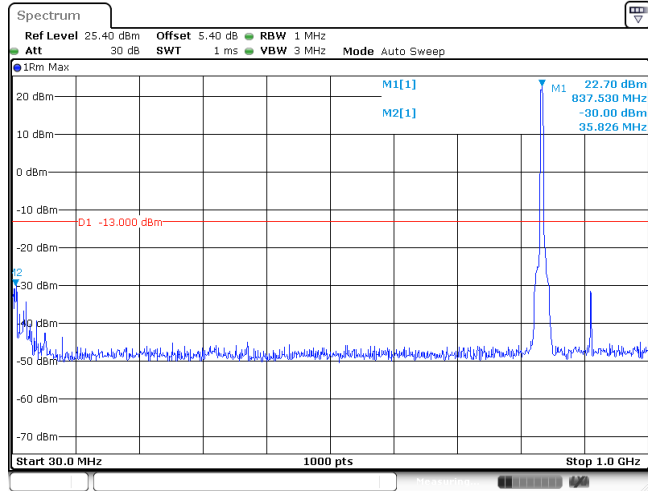


Band V\_4182



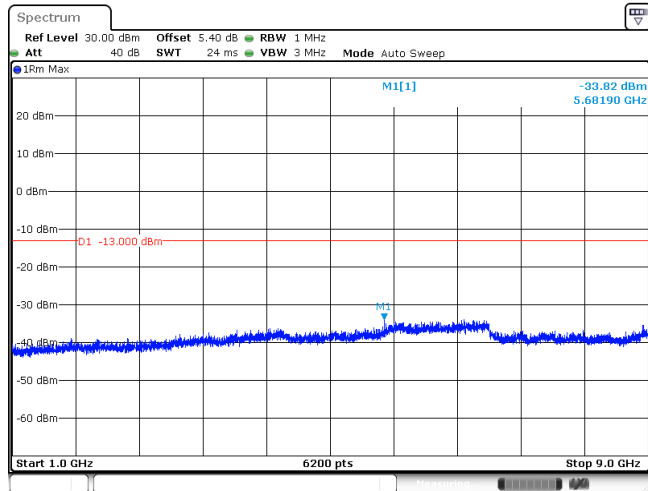
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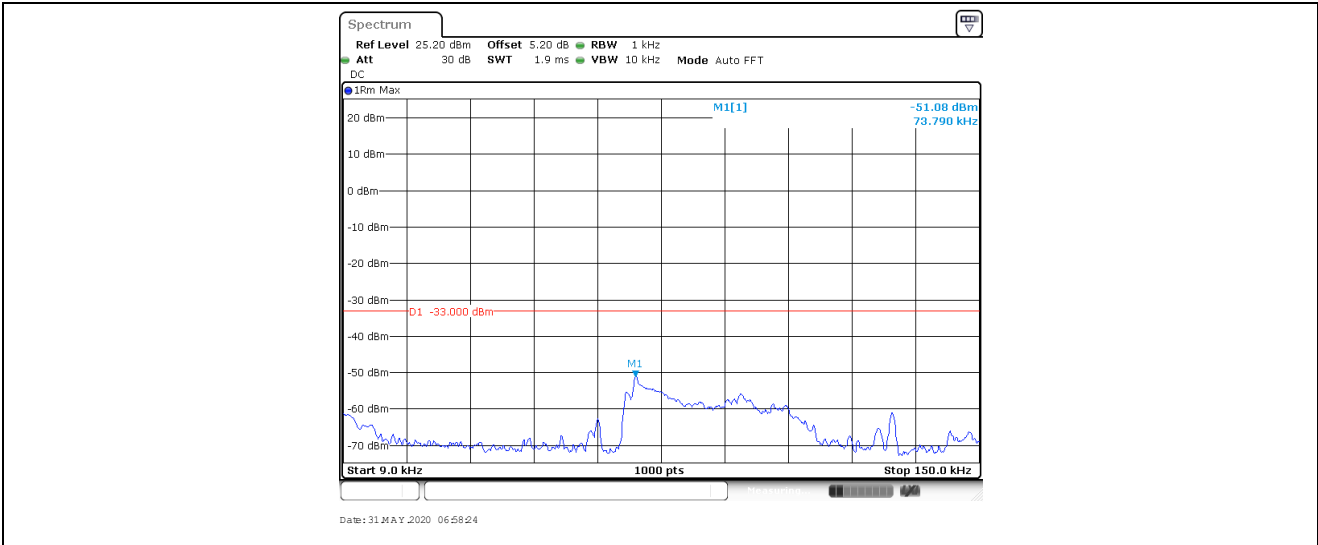


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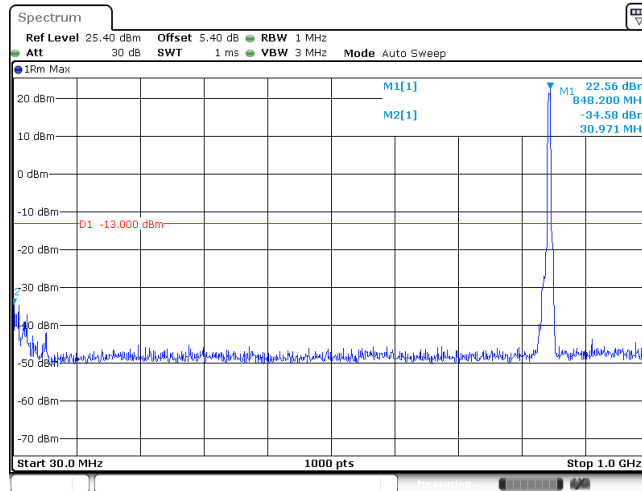


Band V\_4233



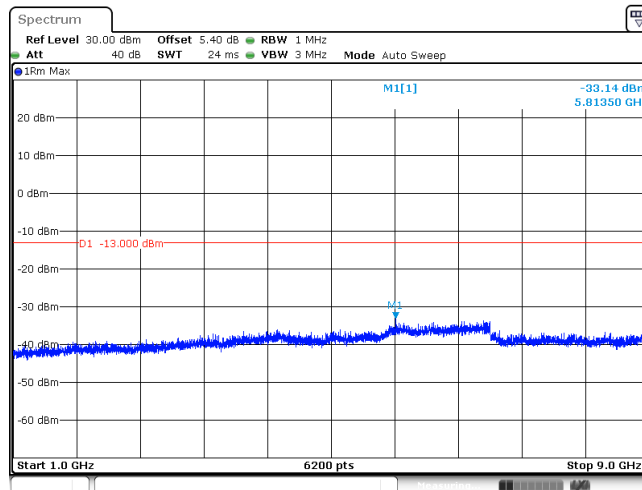
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Band V\_4233



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = WCDMA Band II(Down Antenna)

#### 7.1.1. Test Mode = WCDMA/TM1

##### 7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
67.100000	-70.62	-13.00	57.62	Vertical
191.800000	-80.05	-13.00	67.05	Vertical
944.083333	-75.02	-13.00	62.02	Vertical
3952.087500	-66.04	-13.00	53.04	Vertical
5559.862500	-58.56	-13.00	45.56	Vertical
7942.762500	-62.27	-13.00	49.27	Vertical
63.650000	-72.98	-13.00	59.98	Horizontal
191.750000	-69.18	-13.00	56.18	Horizontal
959.345833	-74.78	-13.00	61.78	Horizontal
4024.725000	-66.20	-13.00	53.20	Horizontal
5559.862500	-54.73	-13.00	41.73	Horizontal
7812.112500	-62.55	-13.00	49.55	Horizontal



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Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.400000	-70.62	-13.00	57.62	Vertical
191.350000	-81.15	-13.00	68.15	Vertical
960.445833	-75.70	-13.00	62.70	Vertical
3761.962500	-63.63	-13.00	50.63	Vertical
5642.250000	-56.90	-13.00	43.90	Vertical
7492.800000	-63.93	-13.00	50.93	Vertical
62.500000	-73.56	-13.00	60.56	Horizontal
191.350000	-69.95	-13.00	56.95	Horizontal
965.900000	-74.78	-13.00	61.78	Horizontal
3761.475000	-62.27	-13.00	49.27	Horizontal
5636.887500	-56.60	-13.00	43.60	Horizontal
7406.025000	-63.15	-13.00	50.15	Horizontal

**7.1.1.2. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
67.200000	-70.30	-13.00	57.30	Vertical
191.700000	-80.05	-13.00	67.05	Vertical
950.729167	-74.72	-13.00	61.72	Vertical
3937.462500	-66.17	-13.00	53.17	Vertical
5719.762500	-52.39	-13.00	39.39	Vertical
7854.525000	-62.46	-13.00	49.46	Vertical
63.500000	-74.20	-13.00	61.20	Horizontal
191.850000	-67.60	-13.00	54.60	Horizontal
959.437500	-74.63	-13.00	61.63	Horizontal
3932.100000	-66.57	-13.00	53.57	Horizontal
5720.250000	-54.42	-13.00	41.42	Horizontal
7802.362500	-62.15	-13.00	49.15	Horizontal



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## 7.2. Test Band = WCDMA Band IV(Down Antenna)

### 7.2.1. Test Mode =WCDMA/TM1

#### 7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.250000	-71.31	-13.00	58.31	Vertical
191.100000	-82.22	-13.00	69.22	Vertical
965.120833	-75.05	-13.00	62.05	Vertical
3426.075000	-62.32	-13.00	49.32	Vertical
5139.637500	-54.22	-13.00	41.22	Vertical
7045.762500	-63.27	-13.00	50.27	Vertical
64.150000	-72.52	-13.00	59.52	Horizontal
190.750000	-69.92	-13.00	56.92	Horizontal
975.525000	-74.89	-13.00	61.89	Horizontal
3426.075000	-62.24	-13.00	49.24	Horizontal
5140.125000	-51.94	-13.00	38.94	Horizontal
7074.525000	-63.14	-13.00	50.14	Horizontal



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**7.2.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
66.200000	-72.25	-13.00	59.25	Vertical
344.050000	-84.27	-13.00	71.27	Vertical
927.950000	-75.99	-13.00	62.99	Vertical
3463.125000	-59.38	-13.00	46.38	Vertical
5200.575000	-54.34	-13.00	41.34	Vertical
7040.887500	-63.19	-13.00	50.19	Vertical
62.750000	-73.34	-13.00	60.34	Horizontal
190.450000	-71.18	-13.00	58.18	Horizontal
968.100000	-74.91	-13.00	61.91	Horizontal
3463.125000	-61.50	-13.00	48.50	Horizontal
5201.062500	-52.63	-13.00	39.63	Horizontal
7041.862500	-63.58	-13.00	50.58	Horizontal

**7.2.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.750000	-71.56	-13.00	58.56	Vertical
191.150000	-82.39	-13.00	69.39	Vertical
937.804167	-75.33	-13.00	62.33	Vertical
3503.587500	-61.17	-13.00	48.17	Vertical
5260.050000	-54.92	-13.00	41.92	Vertical
7080.375000	-63.27	-13.00	50.27	Vertical
63.600000	-72.85	-13.00	59.85	Horizontal
191.250000	-69.63	-13.00	56.63	Horizontal
951.875000	-74.44	-13.00	61.44	Horizontal
3503.100000	-61.53	-13.00	48.53	Horizontal
5260.537500	-52.49	-13.00	39.49	Horizontal
7064.287500	-63.09	-13.00	50.09	Horizontal



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### 7.3. Test Band = WCDMA Band V(Down Antenna)

#### 7.3.1. Test Mode =WCDMA/TM1

##### 7.3.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
66.250000	-71.55	-13.00	58.55	Vertical
593.137500	-77.17	-13.00	64.17	Vertical
1654.500000	-64.27	-13.00	51.27	Vertical
2555.000000	-58.37	-13.00	45.37	Vertical
3395.362500	-67.73	-13.00	54.73	Vertical
5054.812500	-65.88	-13.00	52.88	Vertical
65.800000	-73.71	-13.00	60.71	Horizontal
189.950000	-74.86	-13.00	61.86	Horizontal
611.700000	-75.32	-13.00	62.32	Horizontal
1654.000000	-64.19	-13.00	51.19	Horizontal
2467.500000	-58.90	-13.00	45.90	Horizontal
3355.875000	-68.22	-13.00	55.22	Horizontal



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**7.3.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
66.250000	-71.55	-13.00	58.55	Vertical
593.137500	-77.17	-13.00	64.17	Vertical
1654.500000	-64.27	-13.00	51.27	Vertical
2555.000000	-58.37	-13.00	45.37	Vertical
3395.362500	-67.73	-13.00	54.73	Vertical
5054.812500	-65.88	-13.00	52.88	Vertical
66.000000	-71.59	-13.00	58.59	Horizontal
192.950000	-75.15	-13.00	62.15	Horizontal
620.041667	-75.30	-13.00	62.30	Horizontal
1671.000000	-64.32	-13.00	51.32	Horizontal
2585.000000	-58.39	-13.00	45.39	Horizontal
3385.125000	-67.86	-13.00	54.86	Horizontal

**7.3.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.800000	-71.50	-13.00	58.50	Vertical
190.050000	-87.22	-13.00	74.22	Vertical
617.658333	-76.72	-13.00	63.72	Vertical
1671.000000	-64.28	-13.00	51.28	Vertical
2467.000000	-58.50	-13.00	45.50	Vertical
3426.562500	-67.87	-13.00	54.87	Vertical
66.000000	-71.59	-13.00	58.59	Horizontal
192.950000	-75.15	-13.00	62.15	Horizontal
620.041667	-75.30	-13.00	62.30	Horizontal
1671.000000	-64.32	-13.00	51.32	Horizontal
2585.000000	-58.39	-13.00	45.39	Horizontal
3385.125000	-67.86	-13.00	54.86	Horizontal



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## 7.4. Test Band = WCDMA Band II(Up Antenna)

### 7.4.1. Test Mode =WCDMA/TM1

#### 7.4.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
66.750000	-71.23	-13.00	58.23	Vertical
191.750000	-78.96	-13.00	65.96	Vertical
956.550000	-75.19	-13.00	62.19	Vertical
3866.775000	-66.97	-13.00	53.97	Vertical
5930.362500	-64.66	-13.00	51.66	Vertical
7760.437500	-62.94	-13.00	49.94	Vertical
63.400000	-73.39	-13.00	60.39	Horizontal
191.750000	-69.59	-13.00	56.59	Horizontal
950.820833	-74.65	-13.00	61.65	Horizontal
3828.262500	-67.32	-13.00	54.32	Horizontal
5528.662500	-65.51	-13.00	52.51	Horizontal
7855.012500	-62.28	-13.00	49.28	Horizontal



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**7.4.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
67.550000	-70.94	-13.00	57.94	Vertical
191.800000	-78.76	-13.00	65.76	Vertical
953.387500	-75.27	-13.00	62.27	Vertical
3884.812500	-66.66	-13.00	53.66	Vertical
5940.112500	-64.53	-13.00	51.53	Vertical
7982.737500	-62.24	-13.00	49.24	Vertical
63.650000	-73.96	-13.00	60.96	Horizontal
191.800000	-68.26	-13.00	55.26	Horizontal
945.687500	-75.21	-13.00	62.21	Horizontal
3964.275000	-66.60	-13.00	53.60	Horizontal
6039.562500	-64.31	-13.00	51.31	Horizontal
8068.050000	-62.75	-13.00	49.75	Horizontal

**7.4.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
68.400000	-70.49	-13.00	57.49	Vertical
191.800000	-78.41	-13.00	65.41	Vertical
936.750000	-75.37	-13.00	62.37	Vertical
3944.287500	-66.16	-13.00	53.16	Vertical
5959.612500	-64.31	-13.00	51.31	Vertical
7895.475000	-62.61	-13.00	49.61	Vertical
62.500000	-73.57	-13.00	60.57	Horizontal
191.800000	-69.32	-13.00	56.32	Horizontal
949.950000	-75.32	-13.00	62.32	Horizontal
3843.862500	-66.99	-13.00	53.99	Horizontal
5972.775000	-64.25	-13.00	51.25	Horizontal
7831.612500	-62.48	-13.00	49.48	Horizontal



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## 7.5. Test Band = WCDMA Band IV(Up Antenna)

### 7.5.1. Test Mode =WCDMA/TM1

#### 7.5.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
67.800000	-71.34	-13.00	58.34	Vertical
191.800000	-78.88	-13.00	65.88	Vertical
937.620833	-75.62	-13.00	62.62	Vertical
3544.050000	-67.61	-13.00	54.61	Vertical
5058.225000	-65.63	-13.00	52.63	Vertical
6899.512500	-63.73	-13.00	50.73	Vertical
61.950000	-73.75	-13.00	60.75	Horizontal
191.850000	-69.30	-13.00	56.30	Horizontal
954.808333	-74.95	-13.00	61.95	Horizontal
3439.725000	-67.98	-13.00	54.98	Horizontal
5137.687500	-65.36	-13.00	52.36	Horizontal
6904.387500	-64.20	-13.00	51.20	Horizontal



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**7.5.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
67.100000	-71.38	-13.00	58.38	Vertical
191.750000	-78.82	-13.00	65.82	Vertical
946.329167	-75.57	-13.00	62.57	Vertical
3543.562500	-67.78	-13.00	54.78	Vertical
5034.337500	-65.53	-13.00	52.53	Vertical
6914.625000	-63.87	-13.00	50.87	Vertical
62.250000	-74.12	-13.00	61.12	Horizontal
191.750000	-68.89	-13.00	55.89	Horizontal
943.441667	-75.03	-13.00	62.03	Horizontal
3474.825000	-67.71	-13.00	54.71	Horizontal
5182.050000	-65.64	-13.00	52.64	Horizontal
7042.837500	-63.23	-13.00	50.23	Horizontal

**7.5.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
68.250000	-72.32	-13.00	59.32	Vertical
191.700000	-79.37	-13.00	66.37	Vertical
956.229167	-75.65	-13.00	62.65	Vertical
3559.650000	-67.51	-13.00	54.51	Vertical
5254.200000	-65.28	-13.00	52.28	Vertical
7089.637500	-62.65	-13.00	49.65	Vertical
62.550000	-73.56	-13.00	60.56	Horizontal
191.750000	-68.50	-13.00	55.50	Horizontal
959.025000	-74.77	-13.00	61.77	Horizontal
3497.737500	-67.56	-13.00	54.56	Horizontal
5254.687500	-65.90	-13.00	52.90	Horizontal
7050.150000	-63.63	-13.00	50.63	Horizontal



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## 7.6. Test Band = WCDMA Band V(Up Antenna)

### 7.6.1. Test Mode =WCDMA/TM1

#### 7.6.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
67.600000	-71.95	-13.00	58.95	Vertical
191.650000	-79.65	-13.00	66.65	Vertical
617.750000	-76.65	-13.00	63.65	Vertical
1623.500000	-64.97	-13.00	51.97	Vertical
2476.500000	-56.24	-13.00	43.24	Vertical
3453.862500	-67.66	-13.00	54.66	Vertical
64.000000	-73.56	-13.00	60.56	Horizontal
191.750000	-68.28	-13.00	55.28	Horizontal
622.287500	-76.00	-13.00	63.00	Horizontal
1624.500000	-64.97	-13.00	51.97	Horizontal
2476.500000	-55.88	-13.00	42.88	Horizontal
3452.400000	-67.87	-13.00	54.87	Horizontal



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**7.6.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
66.750000	-71.56	-13.00	58.56	Vertical
191.700000	-79.23	-13.00	66.23	Vertical
616.191667	-76.70	-13.00	63.70	Vertical
1623.500000	-64.92	-13.00	51.92	Vertical
2512.500000	-52.26	-13.00	39.26	Vertical
3366.600000	-67.38	-13.00	54.38	Vertical
61.900000	-74.01	-13.00	61.01	Horizontal
191.700000	-69.14	-13.00	56.14	Horizontal
604.550000	-75.21	-13.00	62.21	Horizontal
1685.000000	-64.30	-13.00	51.30	Horizontal
2512.500000	-52.08	-13.00	39.08	Horizontal
3304.200000	-67.98	-13.00	54.98	Horizontal

**7.6.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
68.150000	-71.80	-13.00	58.80	Vertical
191.700000	-78.72	-13.00	65.72	Vertical
618.025000	-76.55	-13.00	63.55	Vertical
1702.500000	-63.97	-13.00	50.97	Vertical
2542.500000	-53.11	-13.00	40.11	Vertical
3468.000000	-67.66	-13.00	54.66	Vertical
63.400000	-73.55	-13.00	60.55	Horizontal
191.700000	-68.78	-13.00	55.78	Horizontal
614.083333	-75.05	-13.00	62.05	Horizontal
1686.500000	-64.26	-13.00	51.26	Horizontal
2542.500000	-51.78	-13.00	38.78	Horizontal
3451.912500	-67.58	-13.00	54.58	Horizontal

Remark:



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- 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

Voltage							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	4.32	0.002332	±2.5	PASS
Band II	9262	VN	TN	12.40	0.006694	±2.5	PASS
Band II	9262	VH	TN	5.65	0.003052	±2.5	PASS
Band II	9400	VL	TN	-11.98	-0.006372	±2.5	PASS
Band II	9400	VN	TN	-7.15	-0.003801	±2.5	PASS
Band II	9400	VH	TN	-3.27	-0.001740	±2.5	PASS
Band II	9538	VL	TN	-12.38	-0.006488	±2.5	PASS
Band II	9538	VN	TN	-4.82	-0.002526	±2.5	PASS
Band II	9538	VH	TN	10.88	0.005704	±2.5	PASS
Band IV	1312	VL	TN	2.04	0.001190	±2.5	PASS
Band IV	1312	VN	TN	-0.01	-0.000008	±2.5	PASS
Band IV	1312	VH	TN	-9.62	-0.005619	±2.5	PASS
Band IV	1413	VL	TN	-10.99	-0.006342	±2.5	PASS
Band IV	1413	VN	TN	-6.72	-0.003879	±2.5	PASS
Band IV	1413	VH	TN	12.96	0.007480	±2.5	PASS
Band IV	1513	VL	TN	-8.96	-0.005115	±2.5	PASS
Band IV	1513	VN	TN	-6.28	-0.003586	±2.5	PASS
Band IV	1513	VH	TN	-6.09	-0.003476	±2.5	PASS
Band V	4132	VL	TN	14.23	0.017223	±2.5	PASS
Band V	4132	VN	TN	-1.00	-0.001212	±2.5	PASS
Band V	4132	VH	TN	-4.29	-0.005195	±2.5	PASS
Band V	4182	VL	TN	-2.06	-0.002464	±2.5	PASS
Band V	4182	VN	TN	-12.31	-0.014715	±2.5	PASS
Band V	4182	VH	TN	6.24	0.007459	±2.5	PASS
Band V	4233	VL	TN	3.69	0.004361	±2.5	PASS
Band V	4233	VN	TN	-8.88	-0.010488	±2.5	PASS
Band V	4233	VH	TN	13.44	0.015874	±2.5	PASS



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## 8.2. Frequency Vs Temperature

Temperature							
BAND	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	5.33	0.002877	±2.5	PASS
Band II	9262	VN	-20	-6.70	-0.003618	±2.5	PASS
Band II	9262	VN	-10	-2.81	-0.001519	±2.5	PASS
Band II	9262	VN	0	-2.87	-0.001551	±2.5	PASS
Band II	9262	VN	10	-13.02	-0.007028	±2.5	PASS
Band II	9262	VN	20	12.24	0.006606	±2.5	PASS
Band II	9262	VN	30	7.81	0.004215	±2.5	PASS
Band II	9262	VN	40	11.12	0.006003	±2.5	PASS
Band II	9262	VN	50	9.29	0.005013	±2.5	PASS
Band II	9400	VN	-30	-10.72	-0.005704	±2.5	PASS
Band II	9400	VN	-20	-11.82	-0.006288	±2.5	PASS
Band II	9400	VN	-10	12.02	0.006396	±2.5	PASS
Band II	9400	VN	0	-8.13	-0.004325	±2.5	PASS
Band II	9400	VN	10	-6.05	-0.003217	±2.5	PASS
Band II	9400	VN	20	5.84	0.003107	±2.5	PASS
Band II	9400	VN	30	5.35	0.002848	±2.5	PASS
Band II	9400	VN	40	-8.97	-0.004772	±2.5	PASS
Band II	9400	VN	50	-3.32	-0.001767	±2.5	PASS
Band II	9538	VN	-30	-9.23	-0.004841	±2.5	PASS
Band II	9538	VN	-20	8.44	0.004426	±2.5	PASS
Band II	9538	VN	-10	7.63	0.003999	±2.5	PASS
Band II	9538	VN	0	-12.51	-0.006556	±2.5	PASS
Band II	9538	VN	10	-5.97	-0.003128	±2.5	PASS
Band II	9538	VN	20	13.64	0.007149	±2.5	PASS
Band II	9538	VN	30	8.98	0.004708	±2.5	PASS
Band II	9538	VN	40	9.23	0.004840	±2.5	PASS
Band II	9538	VN	50	6.39	0.003349	±2.5	PASS
Band IV	1312	VN	-30	10.77	0.006288	±2.5	PASS
Band IV	1312	VN	-20	2.16	0.001262	±2.5	PASS
Band IV	1312	VN	-10	12.77	0.007457	±2.5	PASS
Band IV	1312	VN	0	-3.64	-0.002124	±2.5	PASS



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Band IV	1312	VN	10	6.62	0.003864	±2.5	PASS
Band IV	1312	VN	20	-10.88	-0.006352	±2.5	PASS
Band IV	1312	VN	30	-1.63	-0.000954	±2.5	PASS
Band IV	1312	VN	40	-3.17	-0.001854	±2.5	PASS
Band IV	1312	VN	50	-3.89	-0.002273	±2.5	PASS
Band IV	1413	VN	-30	-3.47	-0.002002	±2.5	PASS
Band IV	1413	VN	-20	-7.63	-0.004402	±2.5	PASS
Band IV	1413	VN	-10	12.85	0.007418	±2.5	PASS
Band IV	1413	VN	0	11.78	0.006800	±2.5	PASS
Band IV	1413	VN	10	-6.71	-0.003874	±2.5	PASS
Band IV	1413	VN	20	3.63	0.002093	±2.5	PASS
Band IV	1413	VN	30	14.00	0.008079	±2.5	PASS
Band IV	1413	VN	40	13.90	0.008025	±2.5	PASS
Band IV	1413	VN	50	-3.81	-0.002200	±2.5	PASS
Band IV	1513	VN	-30	-5.91	-0.003374	±2.5	PASS
Band IV	1513	VN	-20	-8.49	-0.004844	±2.5	PASS
Band IV	1513	VN	-10	-0.95	-0.000541	±2.5	PASS
Band IV	1513	VN	0	10.78	0.006150	±2.5	PASS
Band IV	1513	VN	10	0.50	0.000287	±2.5	PASS
Band IV	1513	VN	20	-6.95	-0.003963	±2.5	PASS
Band IV	1513	VN	30	11.10	0.006335	±2.5	PASS
Band IV	1513	VN	40	5.54	0.003164	±2.5	PASS
Band IV	1513	VN	50	7.85	0.004481	±2.5	PASS
Band V	4132	VN	-30	-0.87	-0.001058	±2.5	PASS
Band V	4132	VN	-20	2.45	0.002962	±2.5	PASS
Band V	4132	VN	-10	7.79	0.009425	±2.5	PASS
Band V	4132	VN	0	11.49	0.013901	±2.5	PASS
Band V	4132	VN	10	10.58	0.012805	±2.5	PASS
Band V	4132	VN	20	2.15	0.002603	±2.5	PASS
Band V	4132	VN	30	9.34	0.011299	±2.5	PASS
Band V	4132	VN	40	1.98	0.002392	±2.5	PASS
Band V	4132	VN	50	-11.31	-0.013689	±2.5	PASS
Band V	4182	VN	-30	-8.61	-0.010292	±2.5	PASS
Band V	4182	VN	-20	2.77	0.003312	±2.5	PASS
Band V	4182	VN	-10	-3.18	-0.003805	±2.5	PASS
Band V	4182	VN	0	4.13	0.004941	±2.5	PASS
Band V	4182	VN	10	3.48	0.004157	±2.5	PASS



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Band V	4182	VN	20	4.93	0.005892	±2.5	PASS
Band V	4182	VN	30	6.55	0.007836	±2.5	PASS
Band V	4182	VN	40	8.60	0.010285	±2.5	PASS
Band V	4182	VN	50	-8.77	-0.010490	±2.5	PASS
Band V	4233	VN	-30	-12.57	-0.014844	±2.5	PASS
Band V	4233	VN	-20	-10.32	-0.012185	±2.5	PASS
Band V	4233	VN	-10	11.90	0.014055	±2.5	PASS
Band V	4233	VN	0	-4.45	-0.005255	±2.5	PASS
Band V	4233	VN	10	7.71	0.009105	±2.5	PASS
Band V	4233	VN	20	0.96	0.001133	±2.5	PASS
Band V	4233	VN	30	-14.00	-0.016531	±2.5	PASS
Band V	4233	VN	40	-0.51	-0.000599	±2.5	PASS
Band V	4233	VN	50	4.84	0.005716	±2.5	PASS

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