

# 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	22.77	22.64	33.00	PASS
Band II	QPSK	9400	22.74	22.61	33.00	PASS
Band II	QPSK	9538	22.83	22.70	33.00	PASS
Band II	16QAM	9262	19.04	18.91	33.00	PASS
Band II	16QAM	9400	19.39	19.26	33.00	PASS
Band II	16QAM	9538	19.25	19.12	33.00	PASS
Band IV	QPSK	1312	22.46	21.76	30.00	PASS
Band IV	QPSK	1413	22.51	21.81	30.00	PASS
Band IV	QPSK	1513	22.47	21.77	30.00	PASS
Band IV	16QAM	1312	19.51	18.81	30.00	PASS
Band IV	16QAM	1413	19.59	18.89	30.00	PASS
Band IV	16QAM	1513	19.49	18.79	30.00	PASS

Band	Modulation	Channel	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band V	QPSK	4132	21.17	17.48	38.45	PASS
Band V	QPSK	4182	21.20	17.51	38.45	PASS
Band V	QPSK	4233	21.26	17.57	38.45	PASS
Band V	16QAM	4132	18.07	14.38	38.45	PASS
Band V	16QAM	4182	18.18	14.49	38.45	PASS
Band V	16QAM	4233	18.36	14.67	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

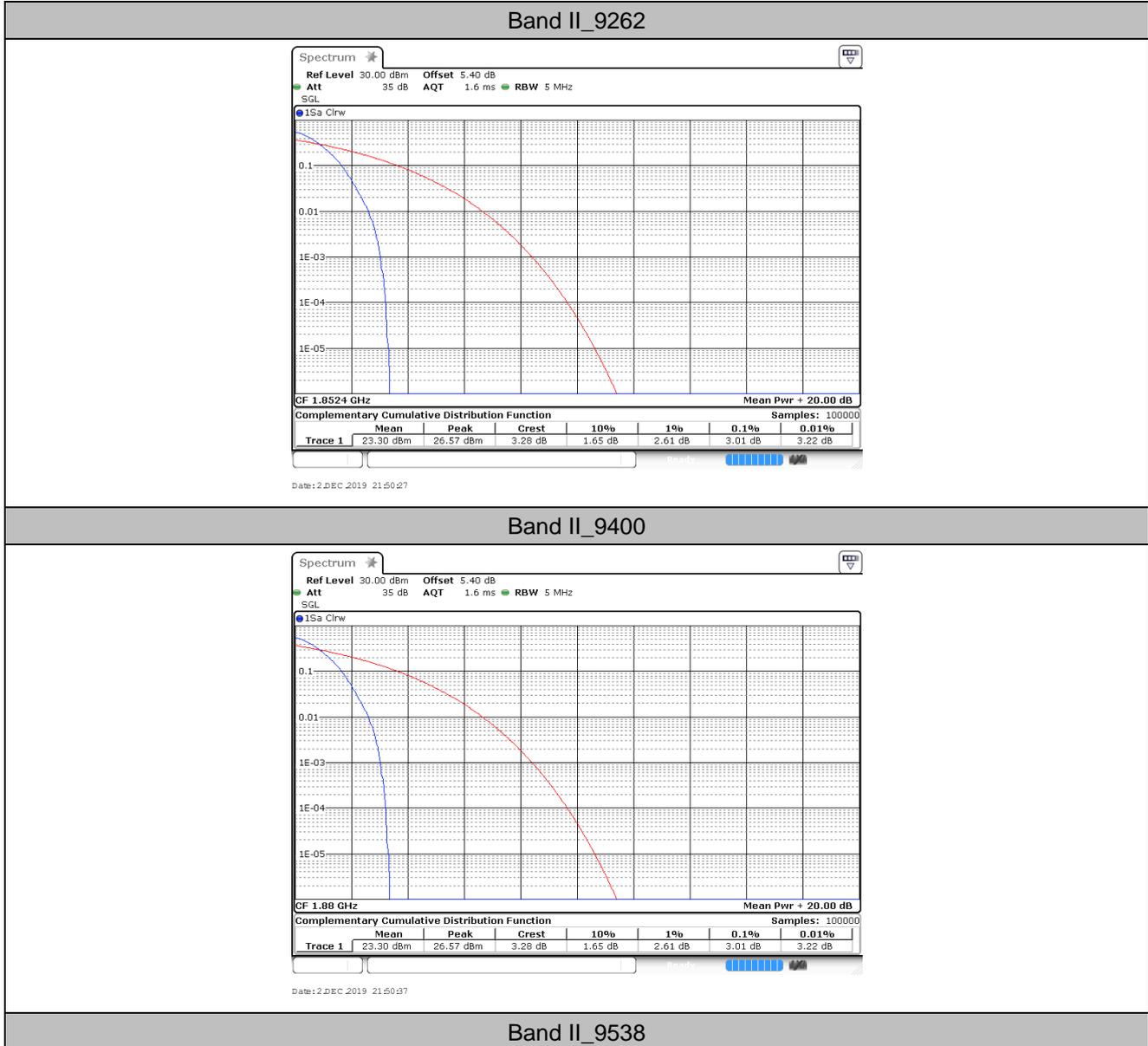
Band	Modulation	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	QPSK	9262	3.01	13	PASS
Band II	QPSK	9400	3.01	13	PASS
Band II	QPSK	9538	2.96	13	PASS
Band II	16QAM	9262	3.04	13	PASS
Band II	16QAM	9400	2.96	13	PASS
Band II	16QAM	9538	2.72	13	PASS
Band IV	QPSK	1312	3.04	13	PASS
Band IV	QPSK	1413	3.07	13	PASS
Band IV	QPSK	1513	3.07	13	PASS
Band IV	16QAM	1312	2.93	13	PASS
Band IV	16QAM	1413	2.96	13	PASS
Band IV	16QAM	1513	2.90	13	PASS
Band V	QPSK	4132	2.72	13	PASS
Band V	QPSK	4182	2.72	13	PASS
Band V	QPSK	4233	2.72	13	PASS
Band V	16QAM	4132	2.14	13	PASS
Band V	16QAM	4182	2.14	13	PASS
Band V	16QAM	4233	2.58	13	PASS



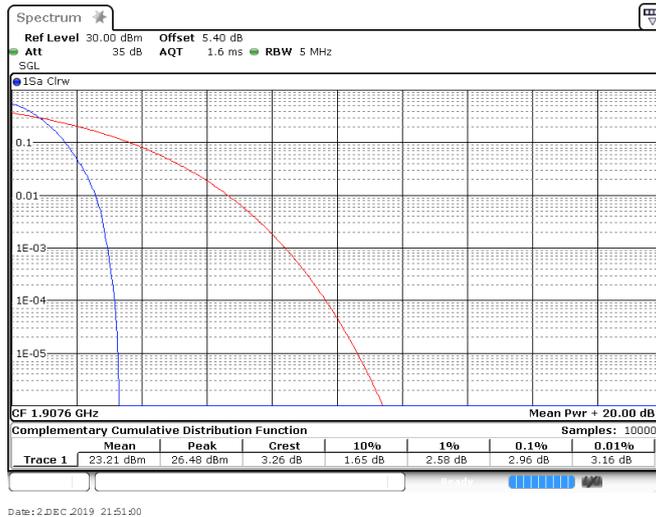
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## 2.2. Test Plots for QPSK

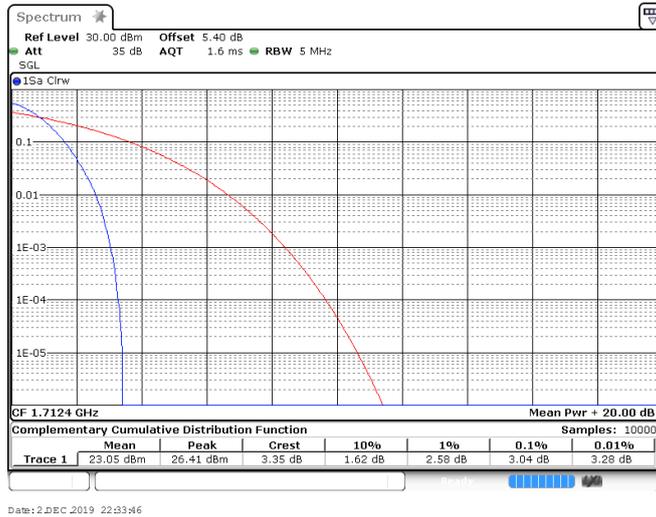


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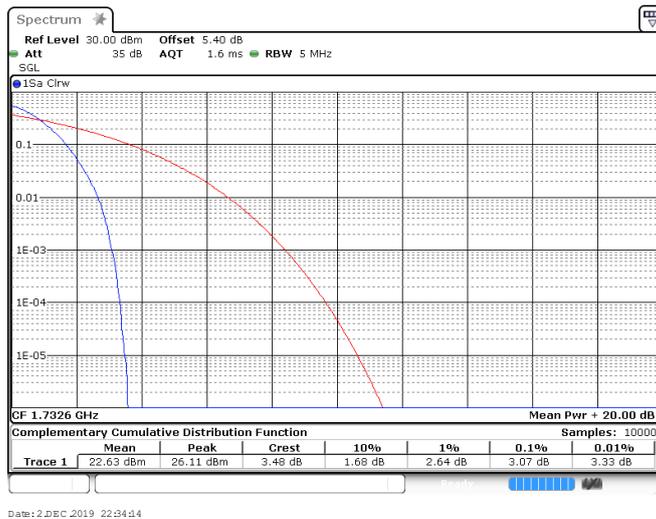
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**Band IV\_1413**



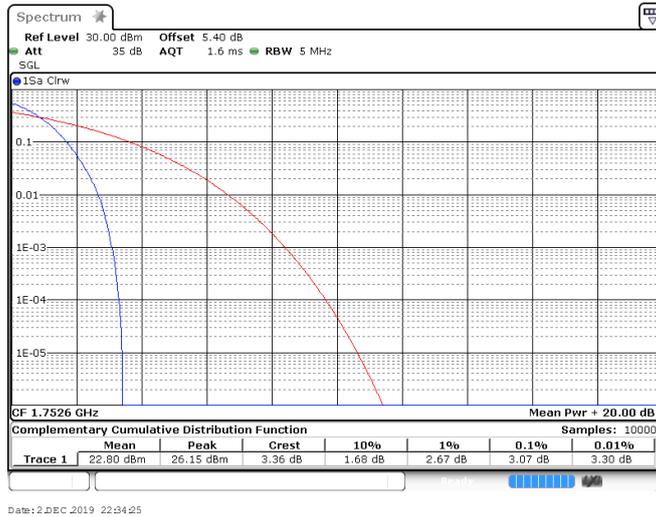
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**Band IV\_1513**



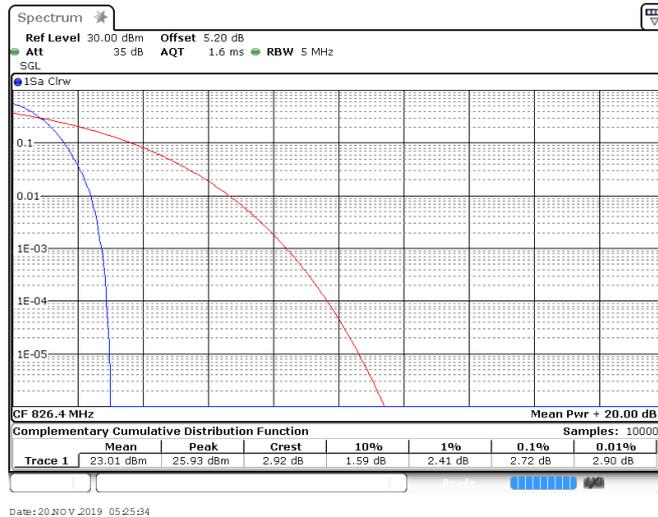
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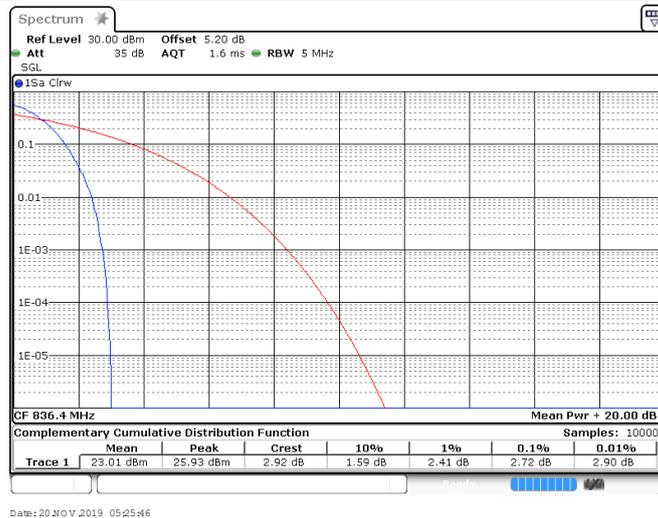


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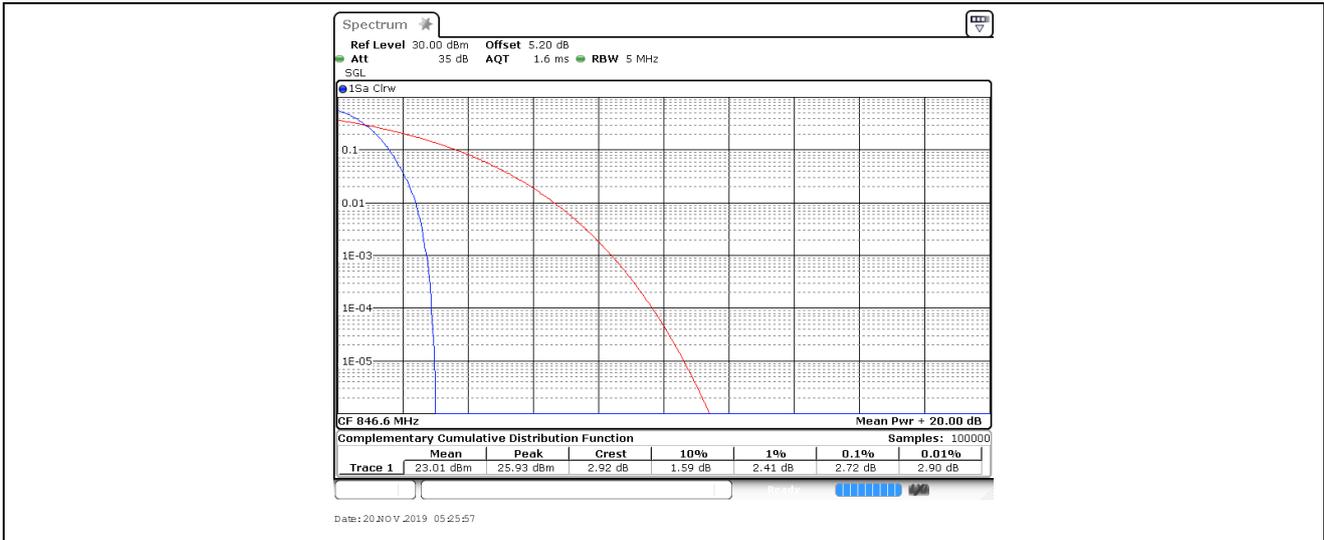


**Band V\_4233**

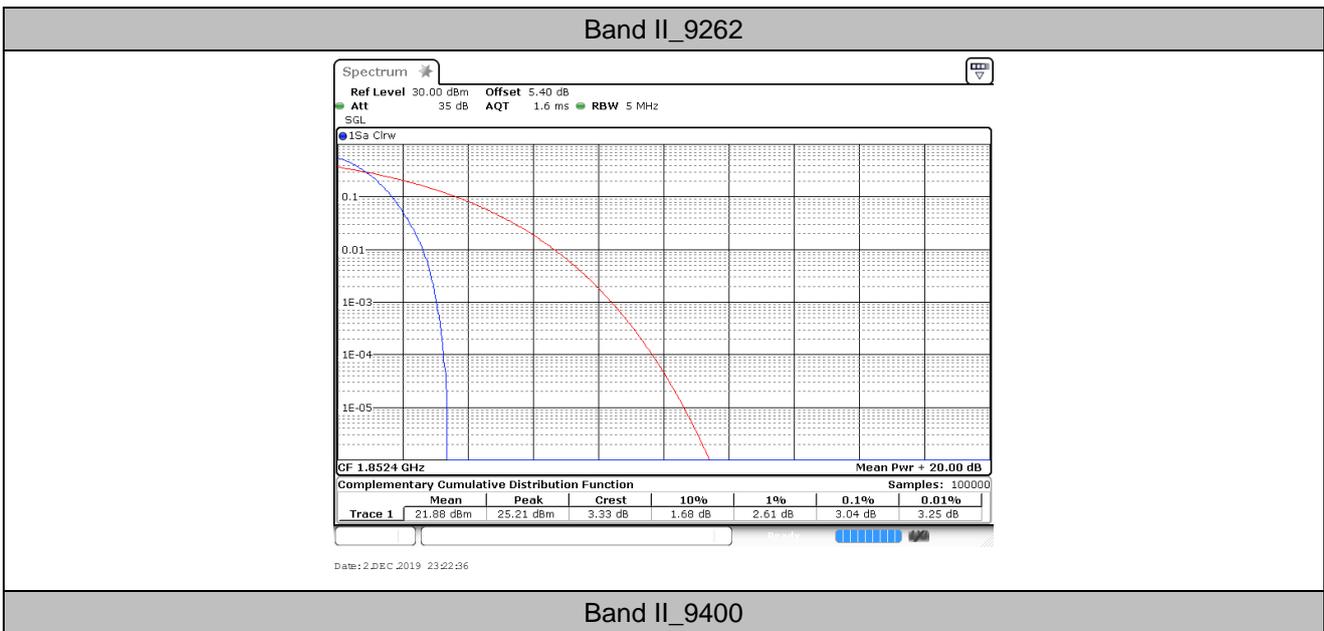


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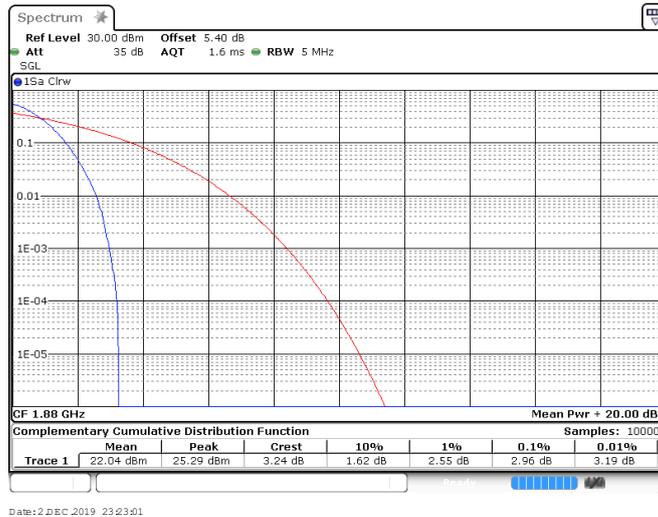


### 2.3. Test Plots for 16QAM



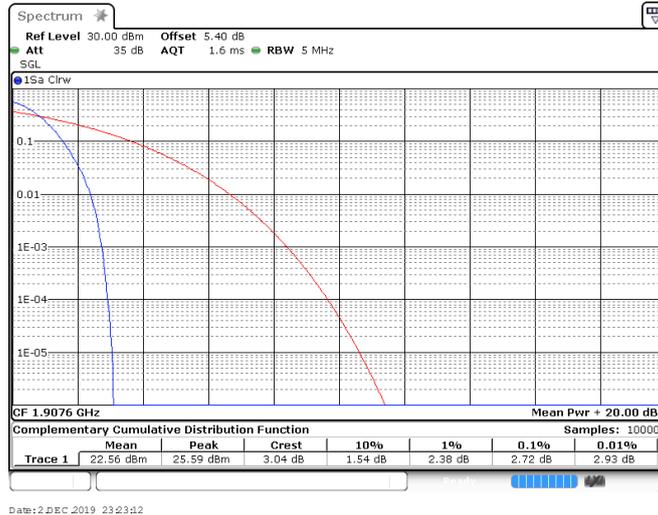
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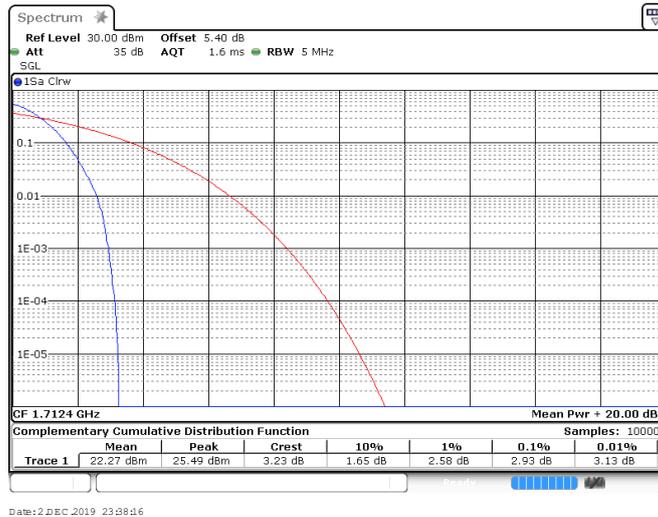


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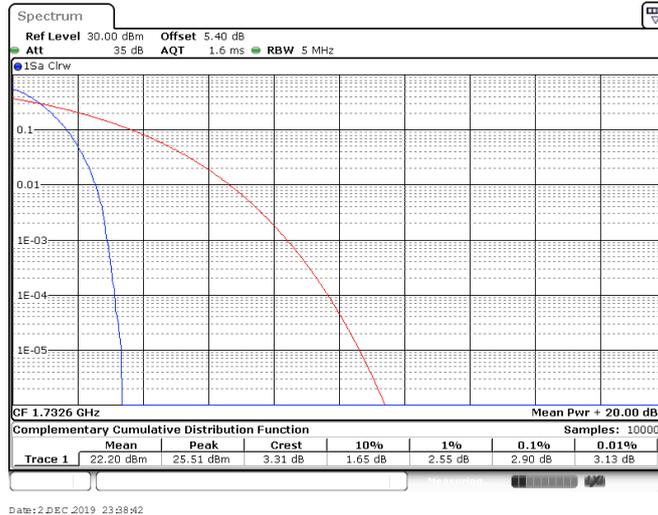
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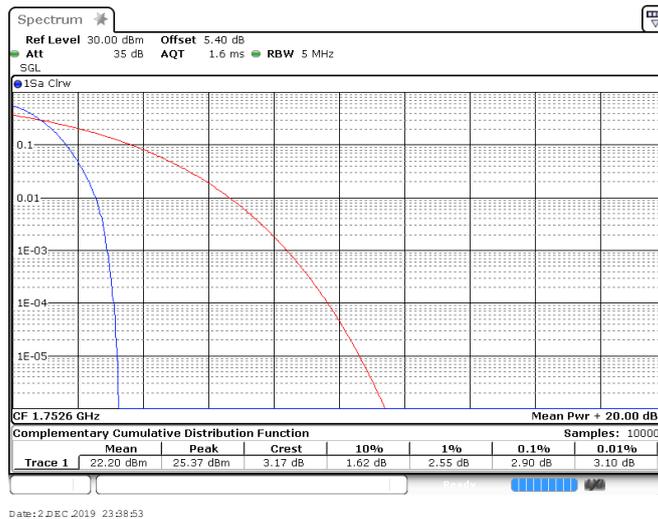
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**Band IV\_1513**

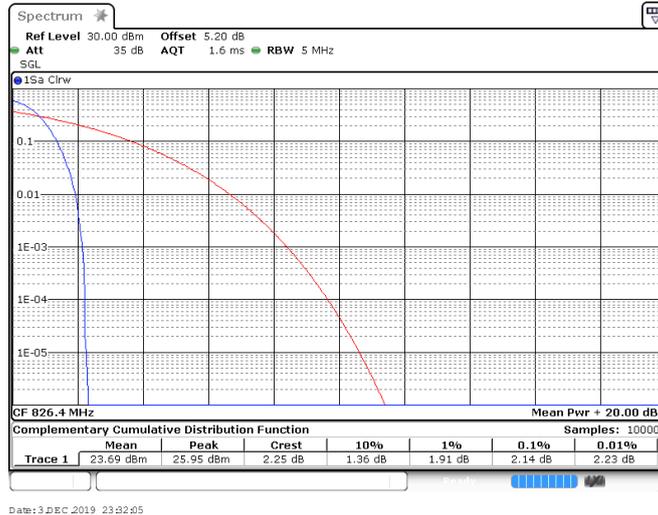


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**Band V\_4132**



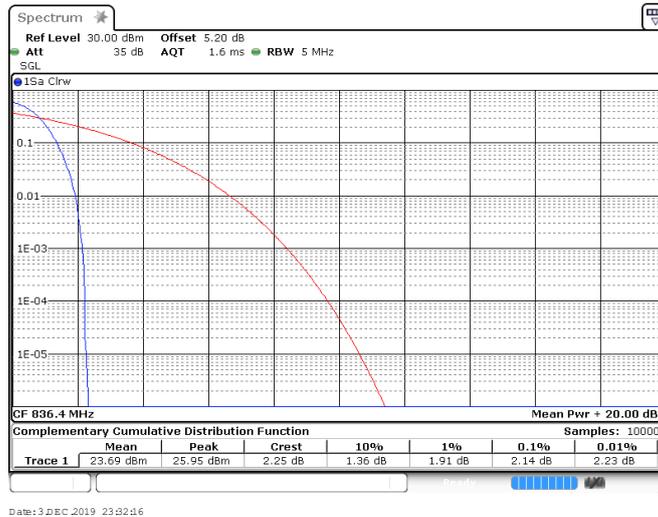
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**Band V\_4182**



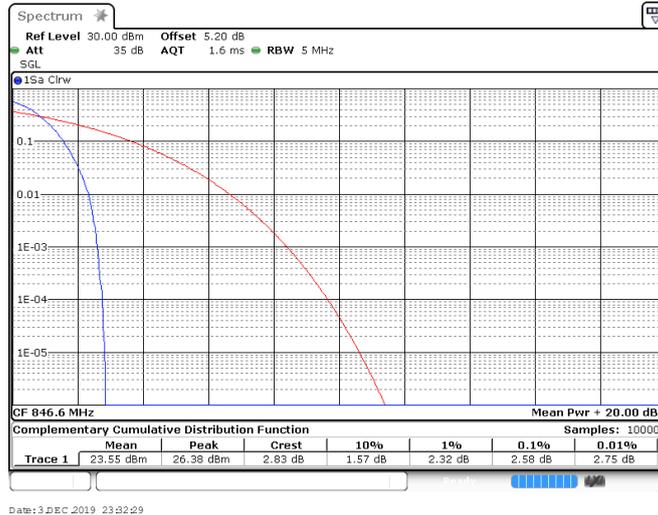
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**Band V\_4233**



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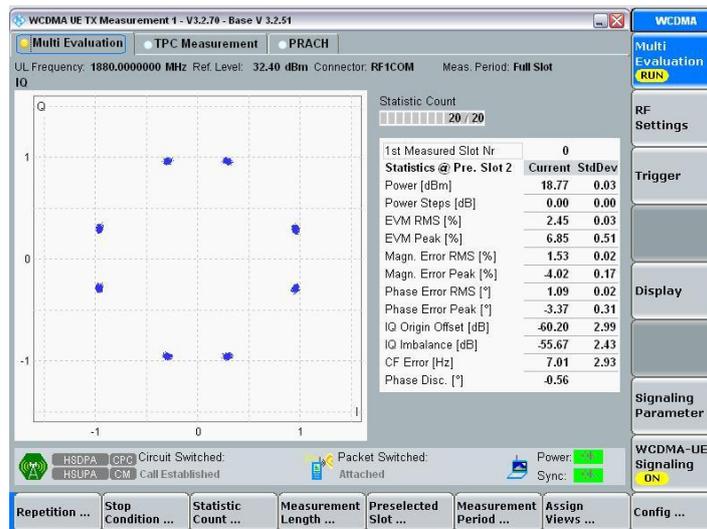
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### 3. Modulation Characteristics

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

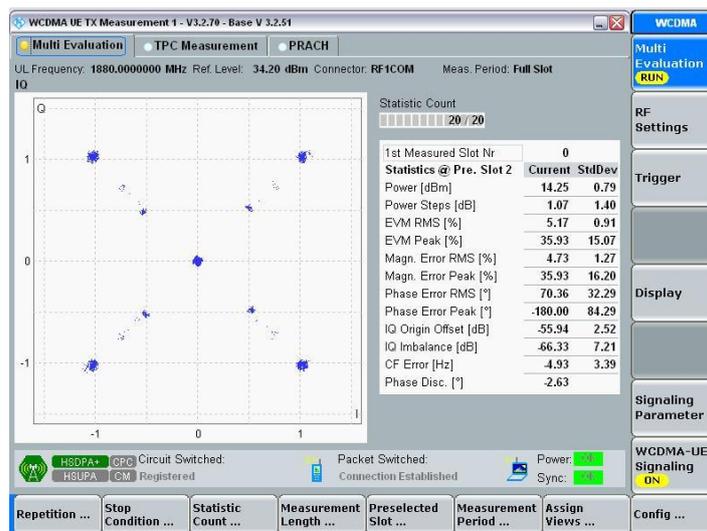
##### 3.1.1. Test Mode = UMTS/TM1

##### 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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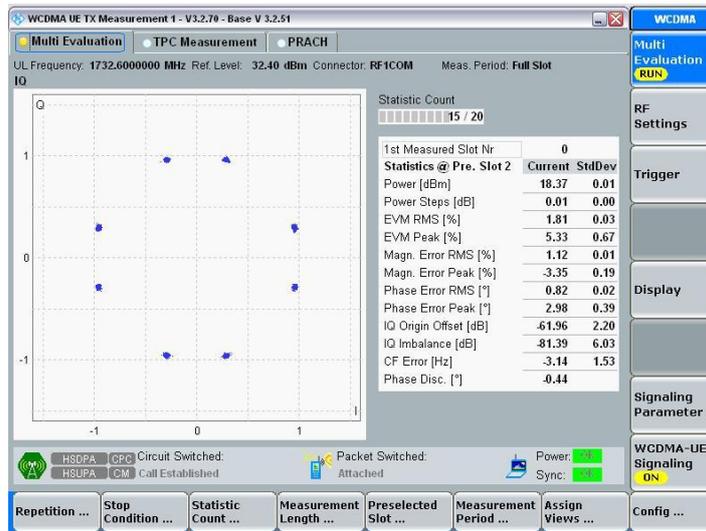
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

### 3.2. Test Band = WCDMA Band IV

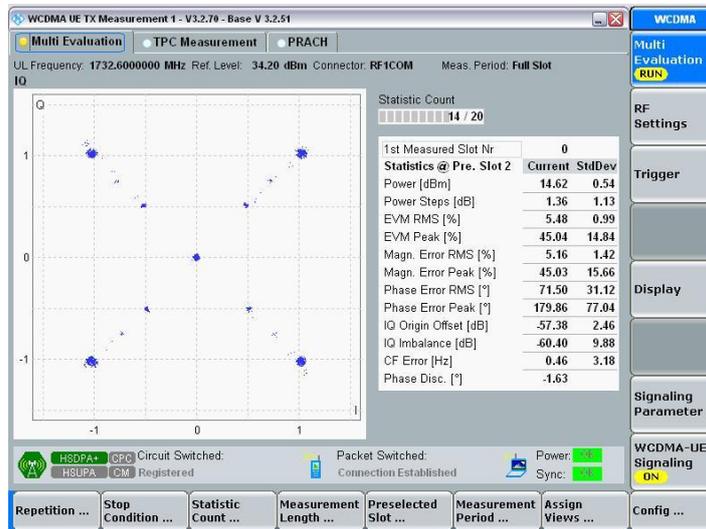
#### 3.2.1. Test Mode = UMTS/TM1

##### 3.2.1.1. Test Channel = MCH



#### 3.2.2. Test Mode = UMTS/TM2

##### 3.2.2.1. Test Channel = MCH

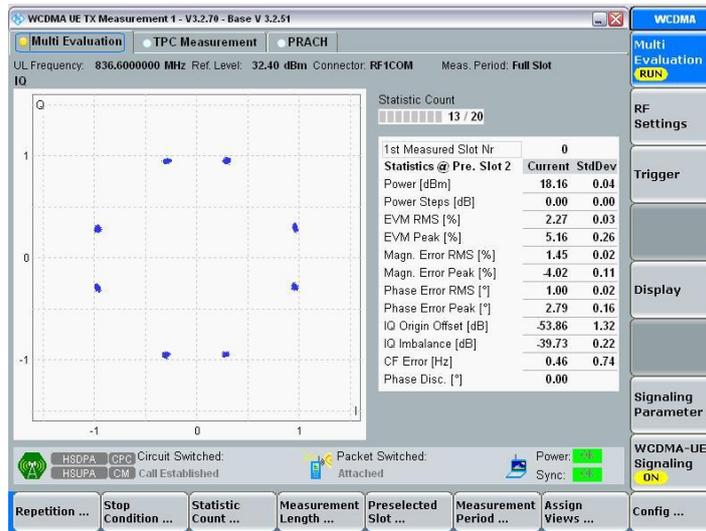


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### 3.3. Test Band = WCDMA Band V

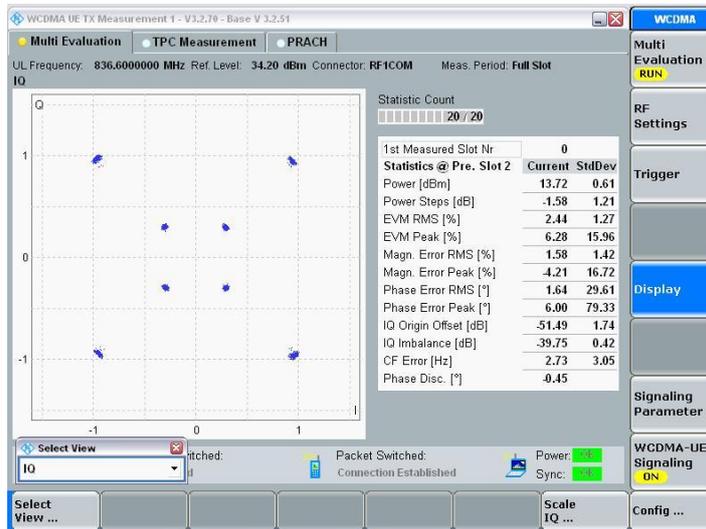
#### 3.3.1. Test Mode = UMTS/TM1

##### 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

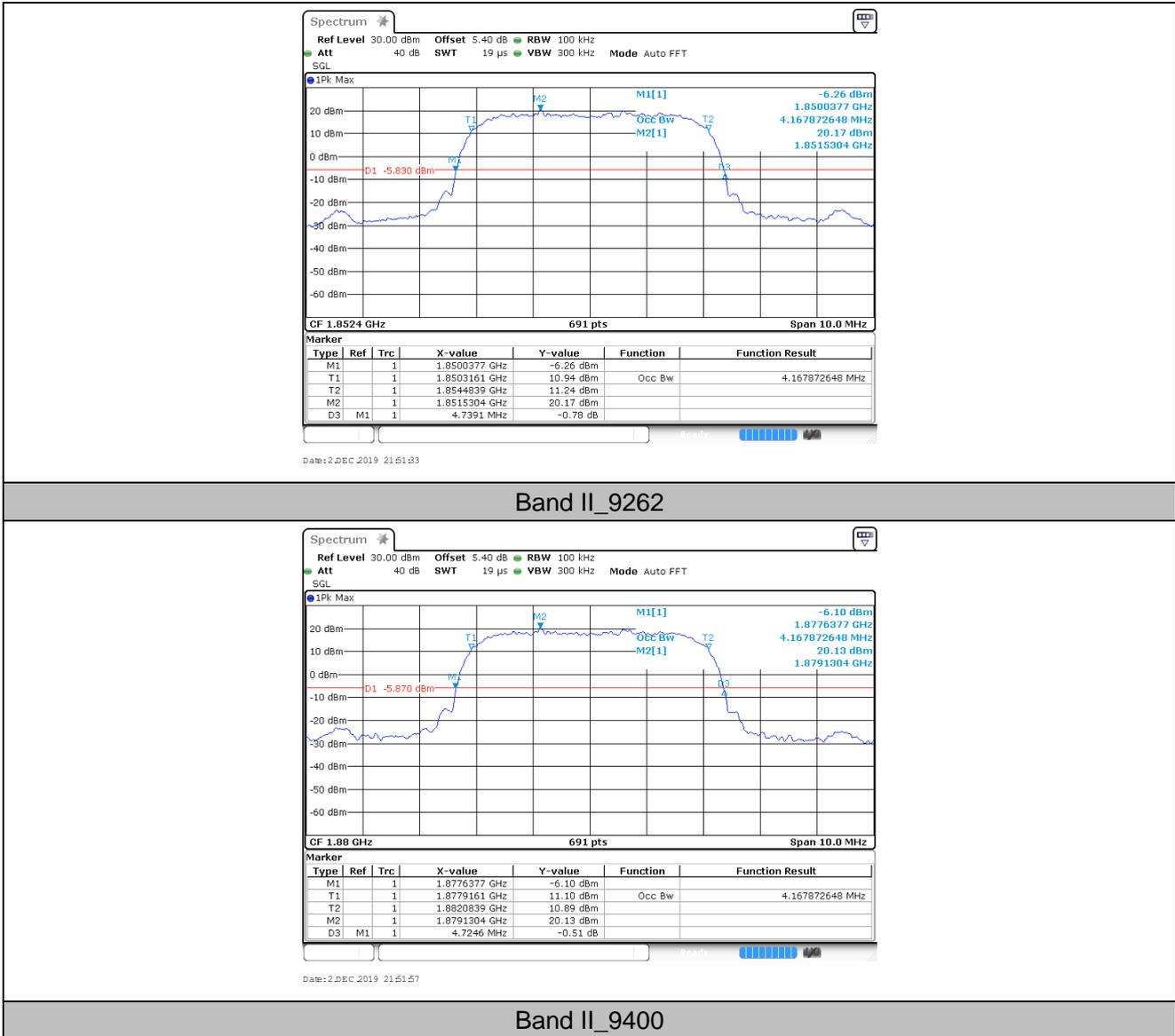
BAND	Modulation	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	QPSK	9262	4167.9	4739	---	PASS
Band II	QPSK	9400	4167.9	4725	---	PASS
Band II	QPSK	9538	4153.4	4739	---	PASS
Band II	16QAM	9262	4167.9	4739	---	PASS
Band II	16QAM	9400	4167.9	4754	---	PASS
Band II	16QAM	9538	4167.9	4754	---	PASS
Band IV	QPSK	1312	4153.4	4725	---	PASS
Band IV	QPSK	1413	4167.9	4725	---	PASS
Band IV	QPSK	1513	4153.4	4725	---	PASS
Band IV	16QAM	1312	4167.9	4739	---	PASS
Band IV	16QAM	1413	4167.9	4739	---	PASS
Band IV	16QAM	1513	4167.9	4739	---	PASS
Band V	QPSK	4132	4153.4	4754	---	PASS
Band V	QPSK	4182	4153.4	4725	---	PASS
Band V	QPSK	4233	4153.4	4754	---	PASS
Band V	16QAM	4132	4196.8	4797	---	PASS
Band V	16QAM	4182	4167.9	4725	---	PASS
Band V	16QAM	4233	4167.9	4754	---	PASS



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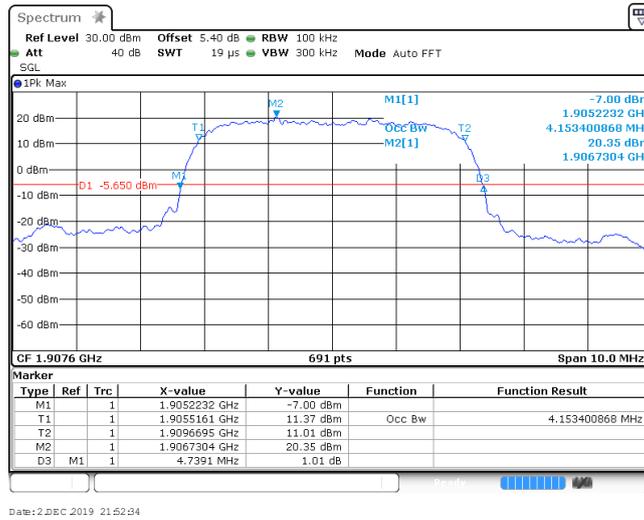
### 4.2. Test Plots for QPSK



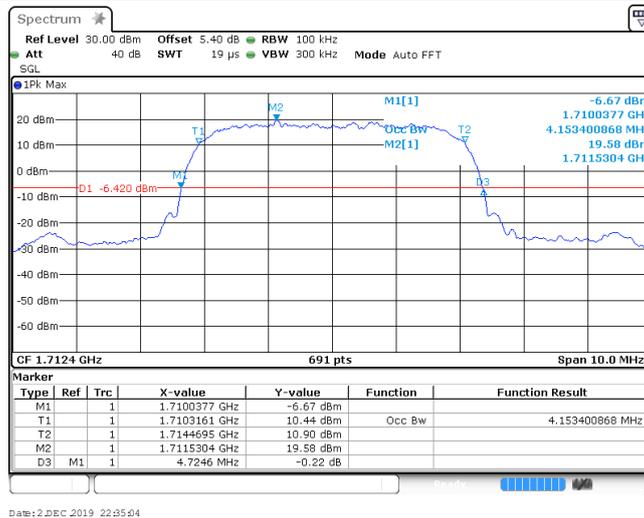
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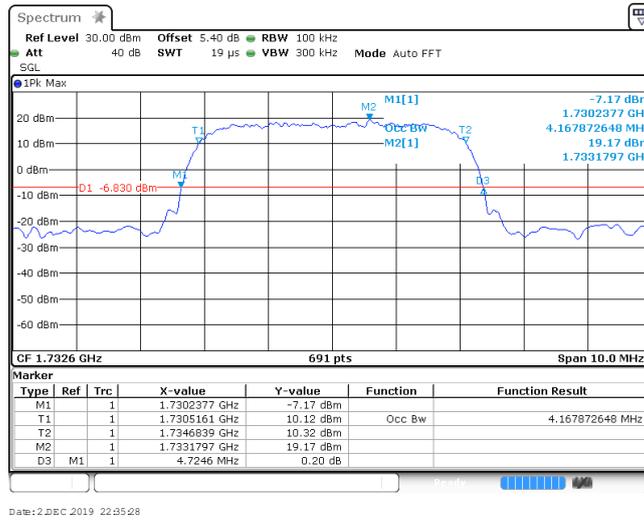
**Band II\_9538**



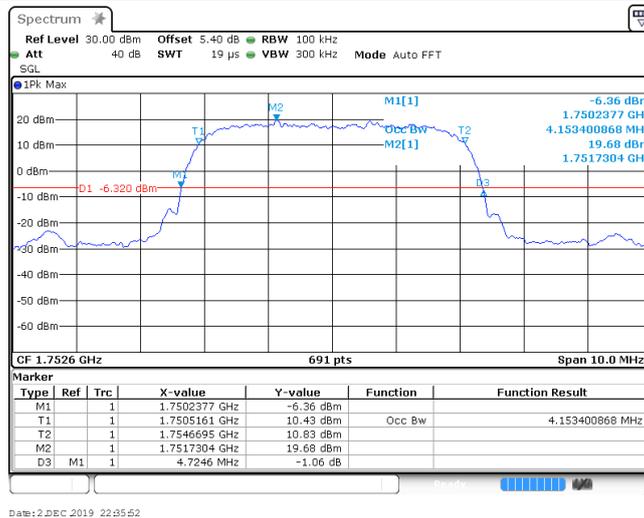
**Band IV\_1312**



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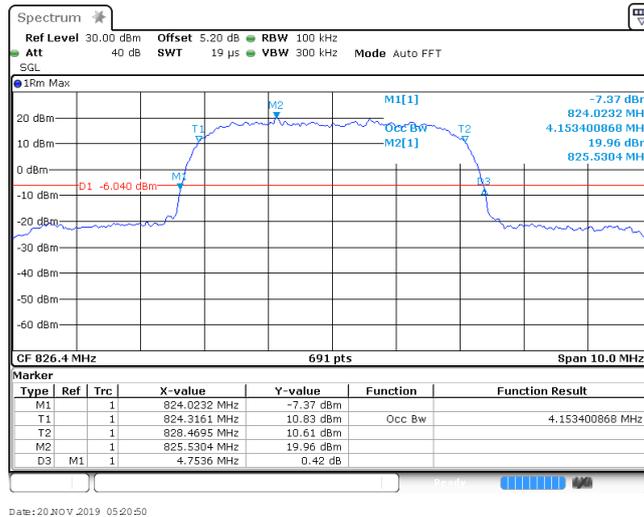


**Band IV\_1513**

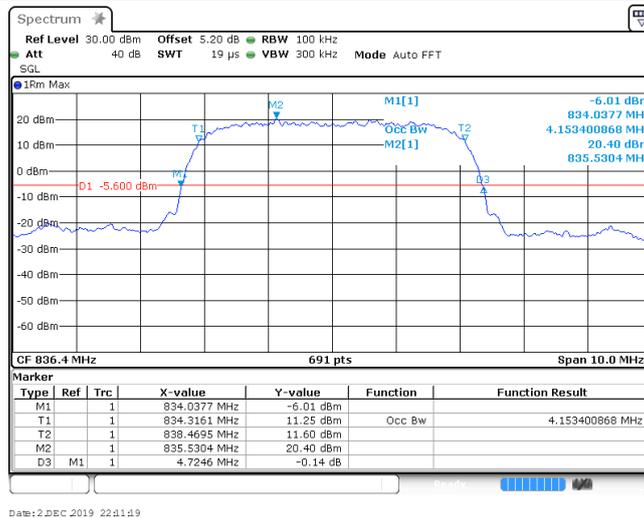


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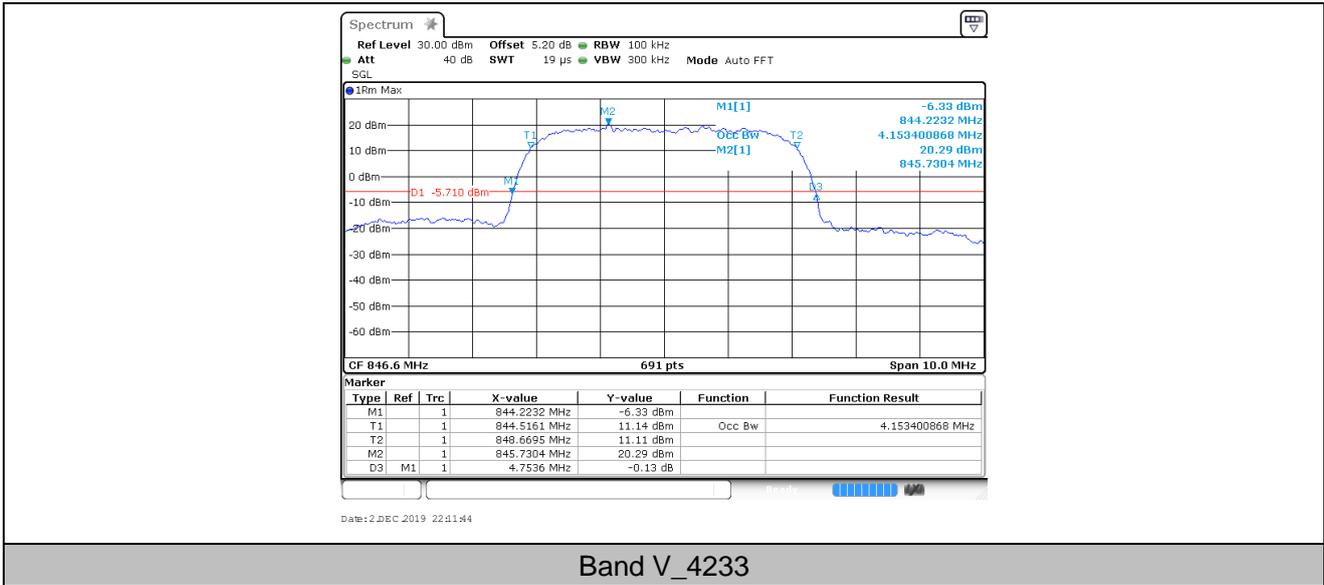


**Band V\_4182**



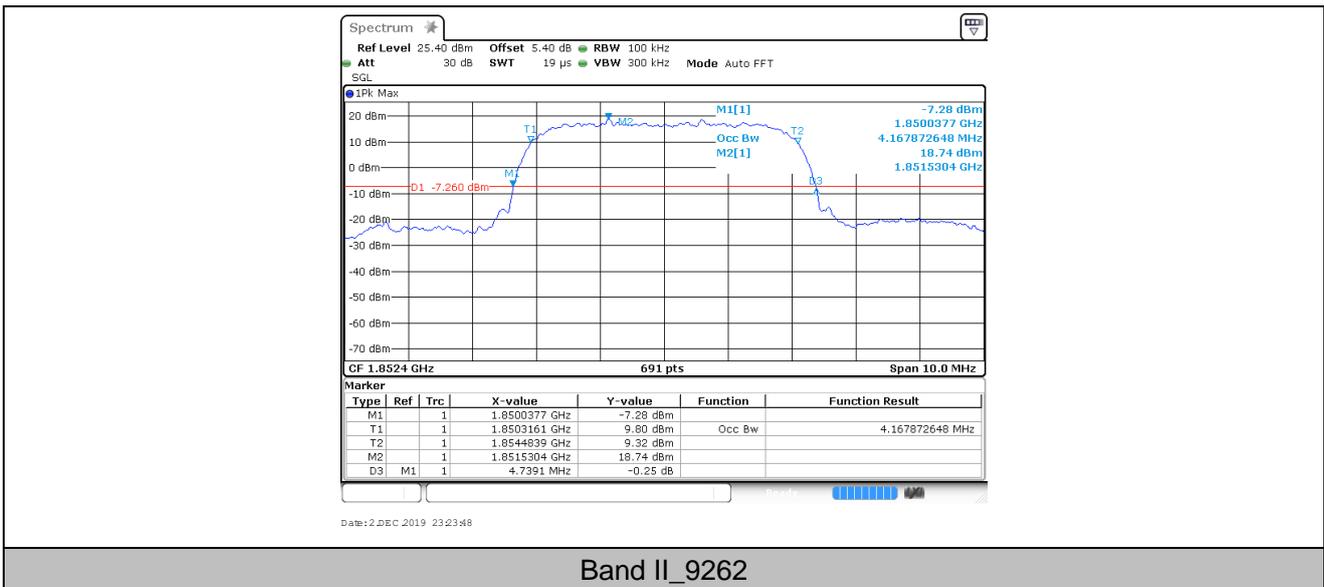
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Band V\_4233

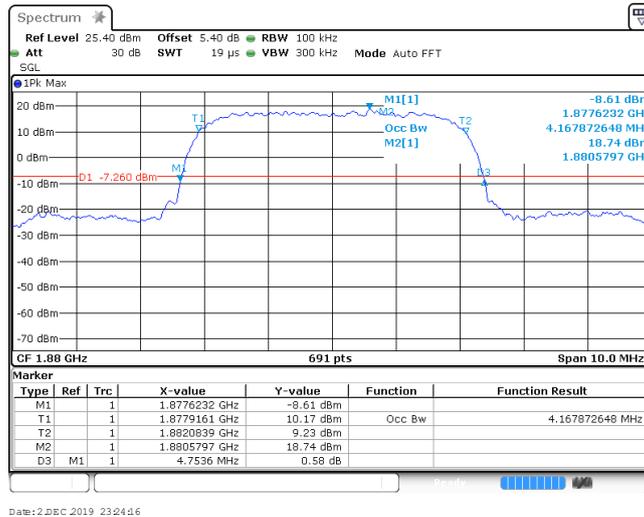
### 4.3. Test Plots for 16QAM



Band II\_9262

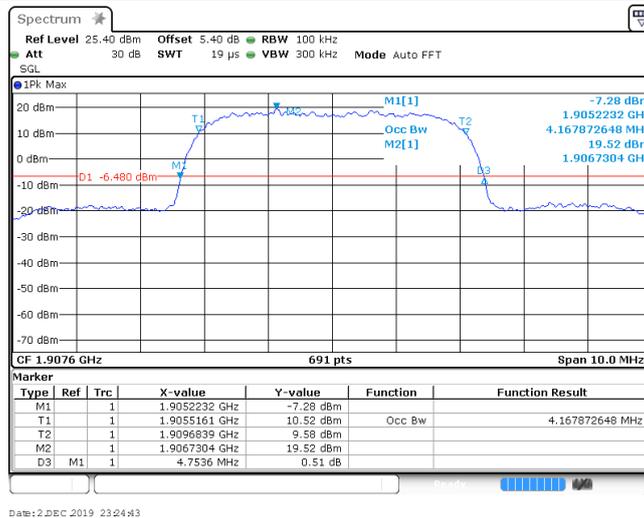


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**Band II\_9400**

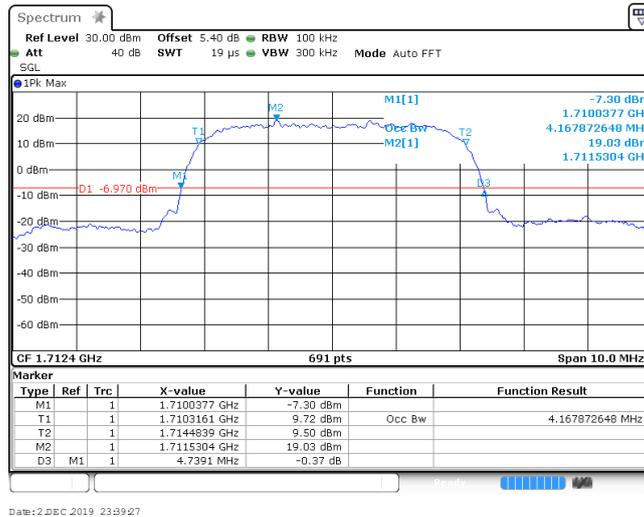


Date: 2 DEC 2019 23:24:13

**Band II\_9538**

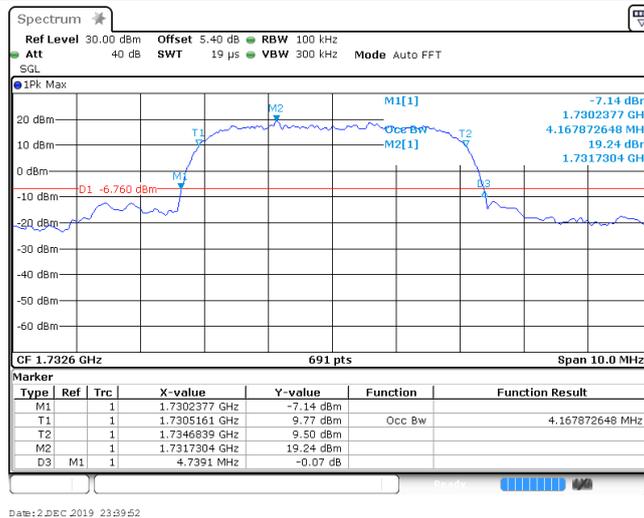


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**Band IV\_1312**



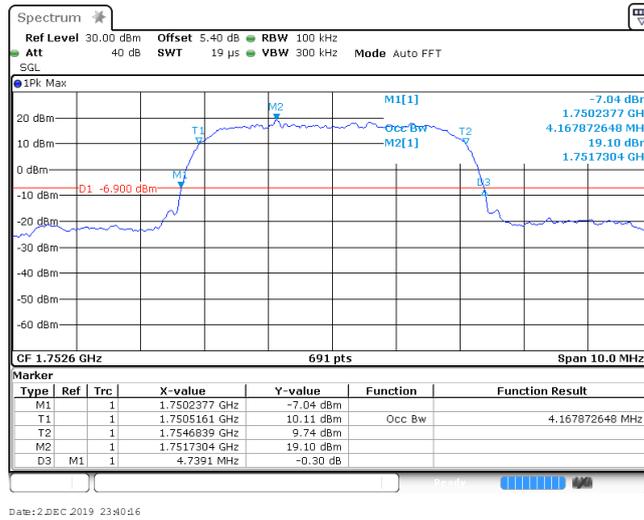
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**Band IV\_1413**

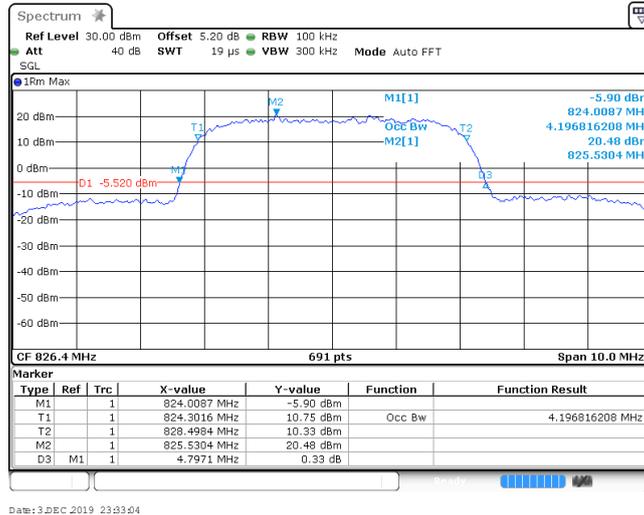


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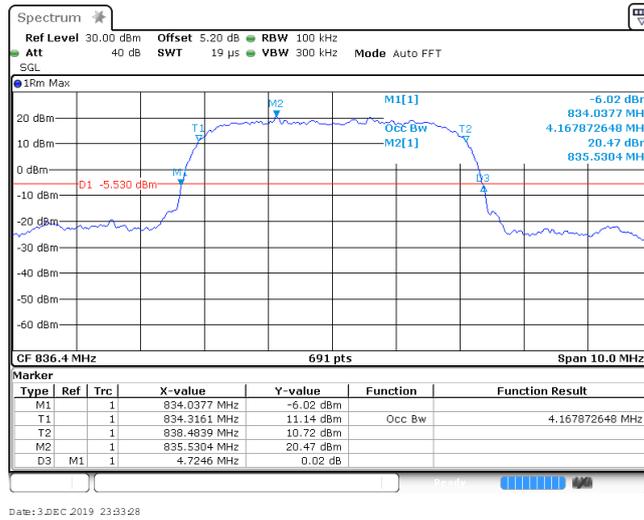


**Band V\_4132**



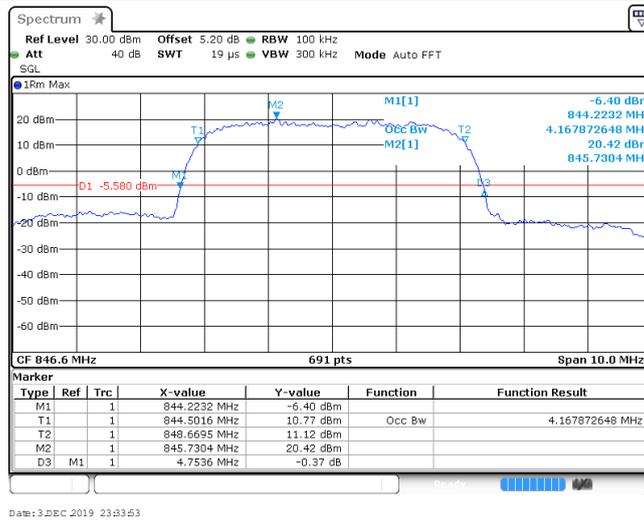
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**Band V\_4182**



Date: 3 DEC 2019 23:33:53

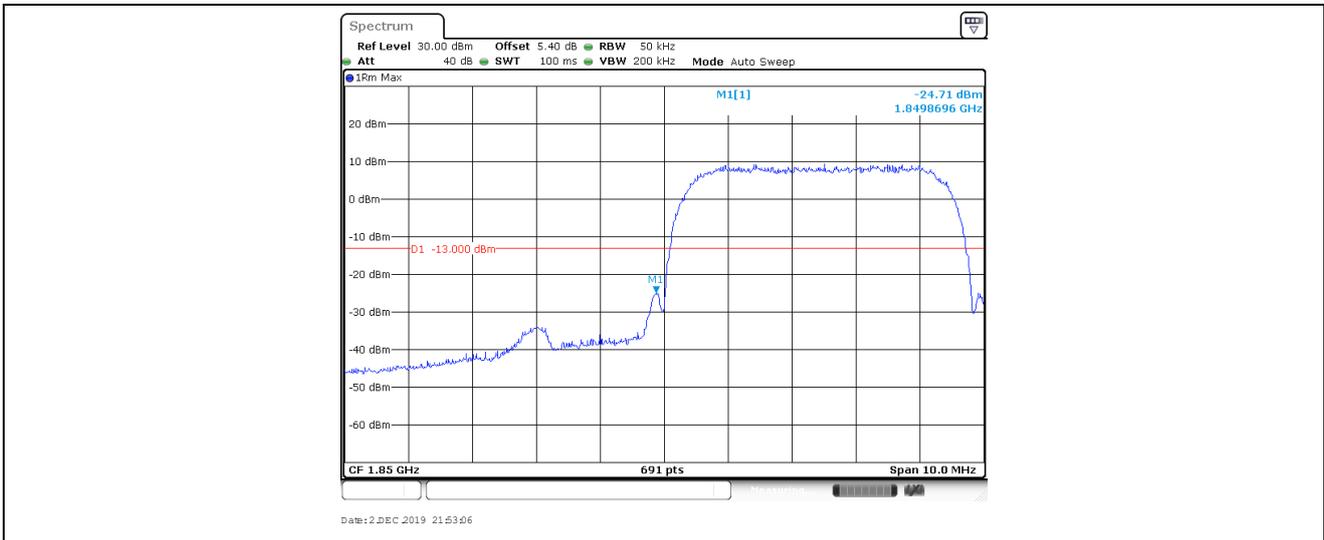
**Band V\_4233**



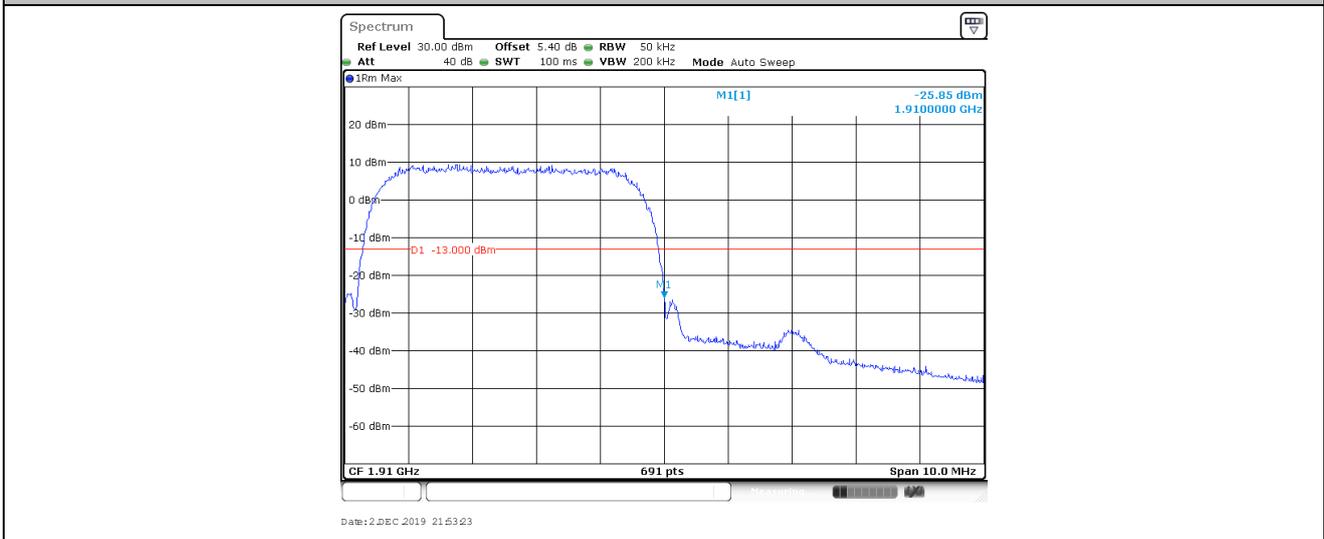
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## 5. Band Edge Compliance

### 5.1. Test Plots for QPSK



Band II\_9262

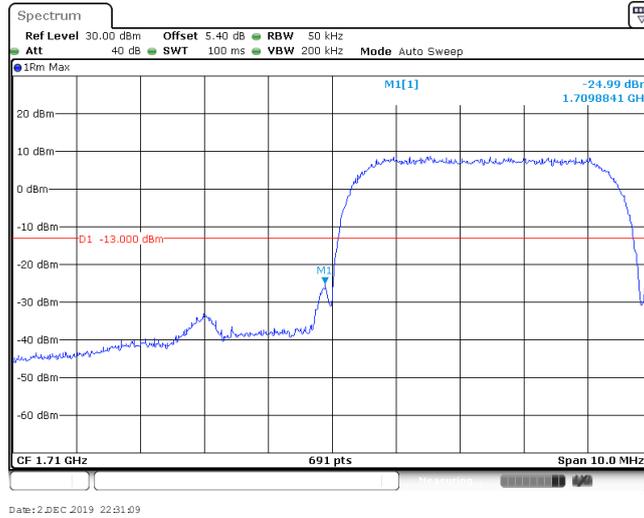


Band II\_9538

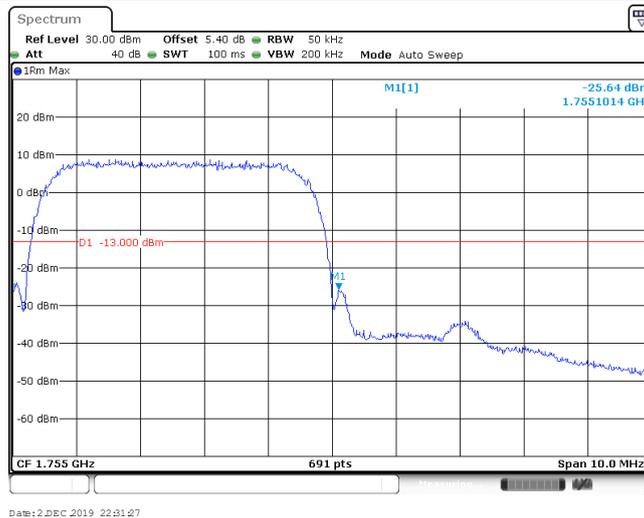


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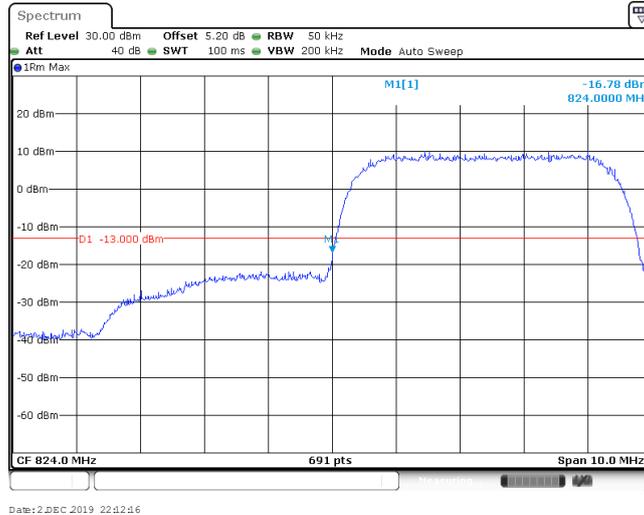
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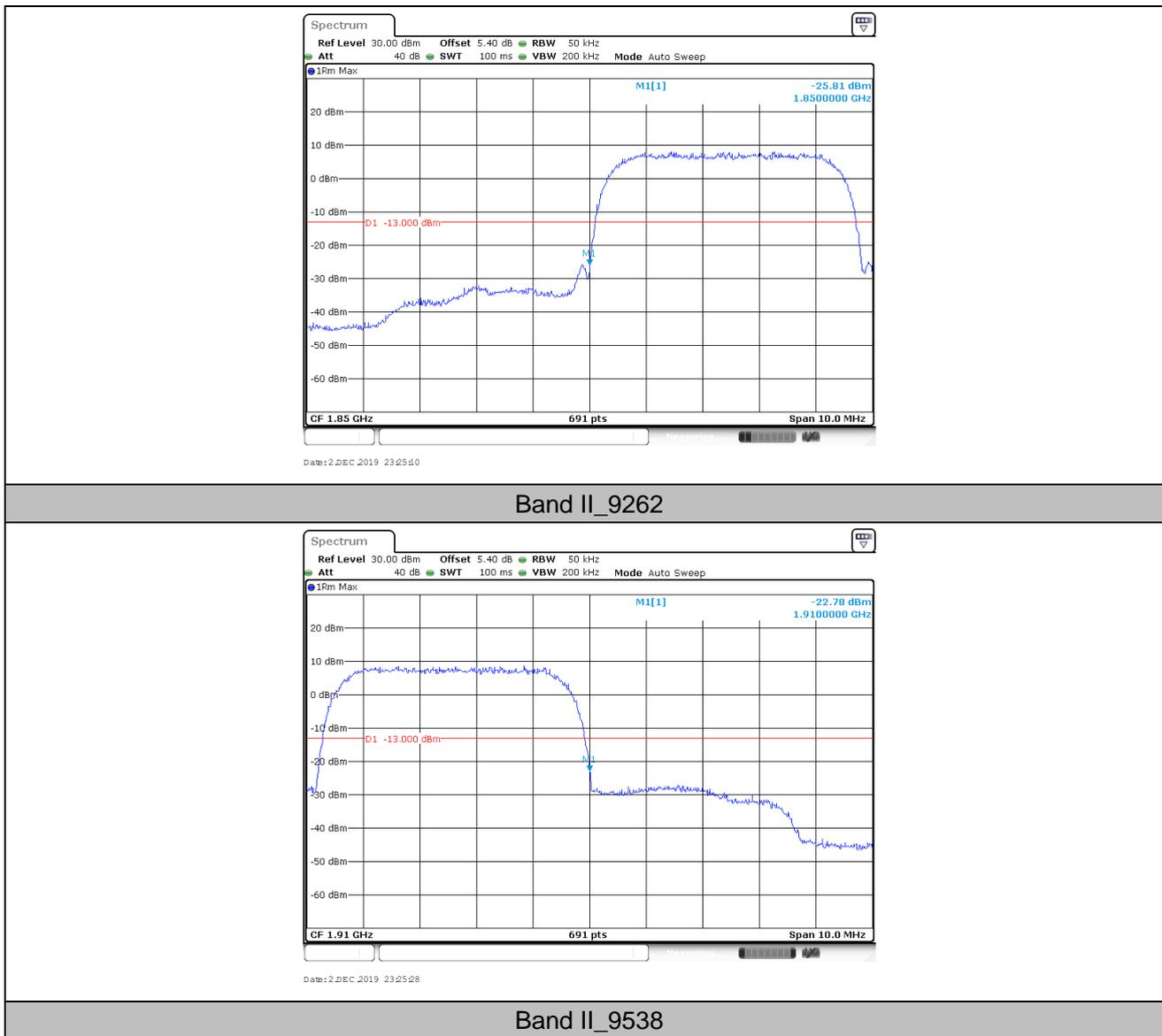


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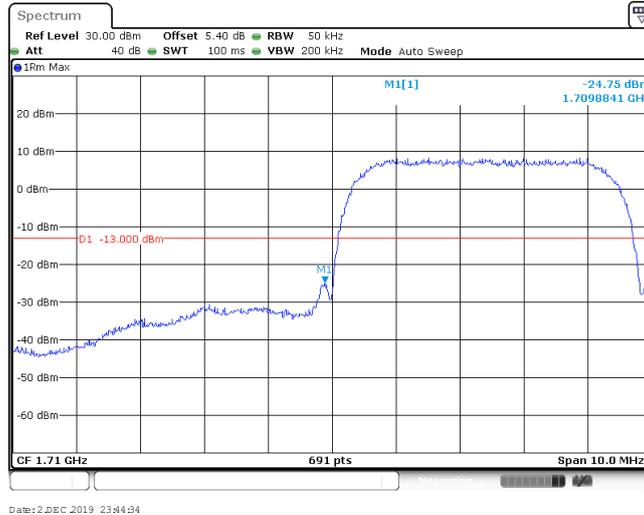


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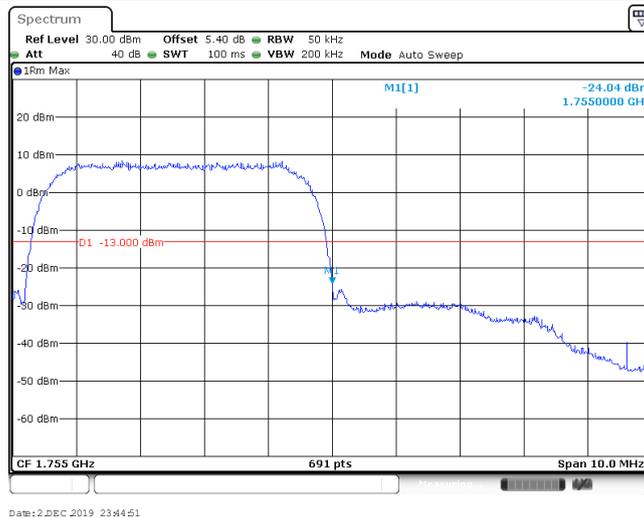
## 5.2. Test Plots for 16QAM



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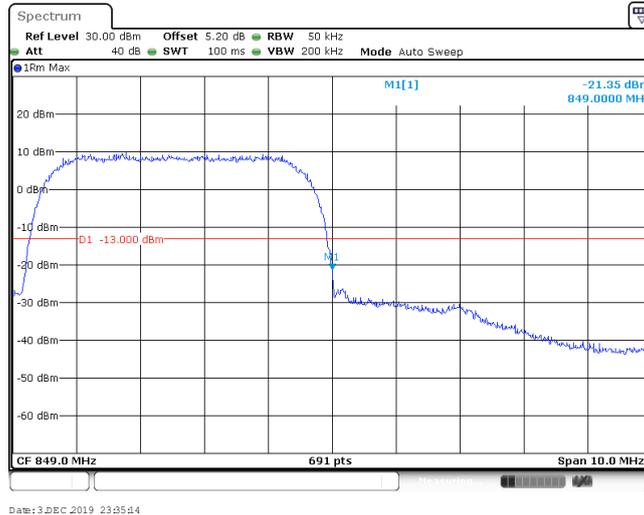
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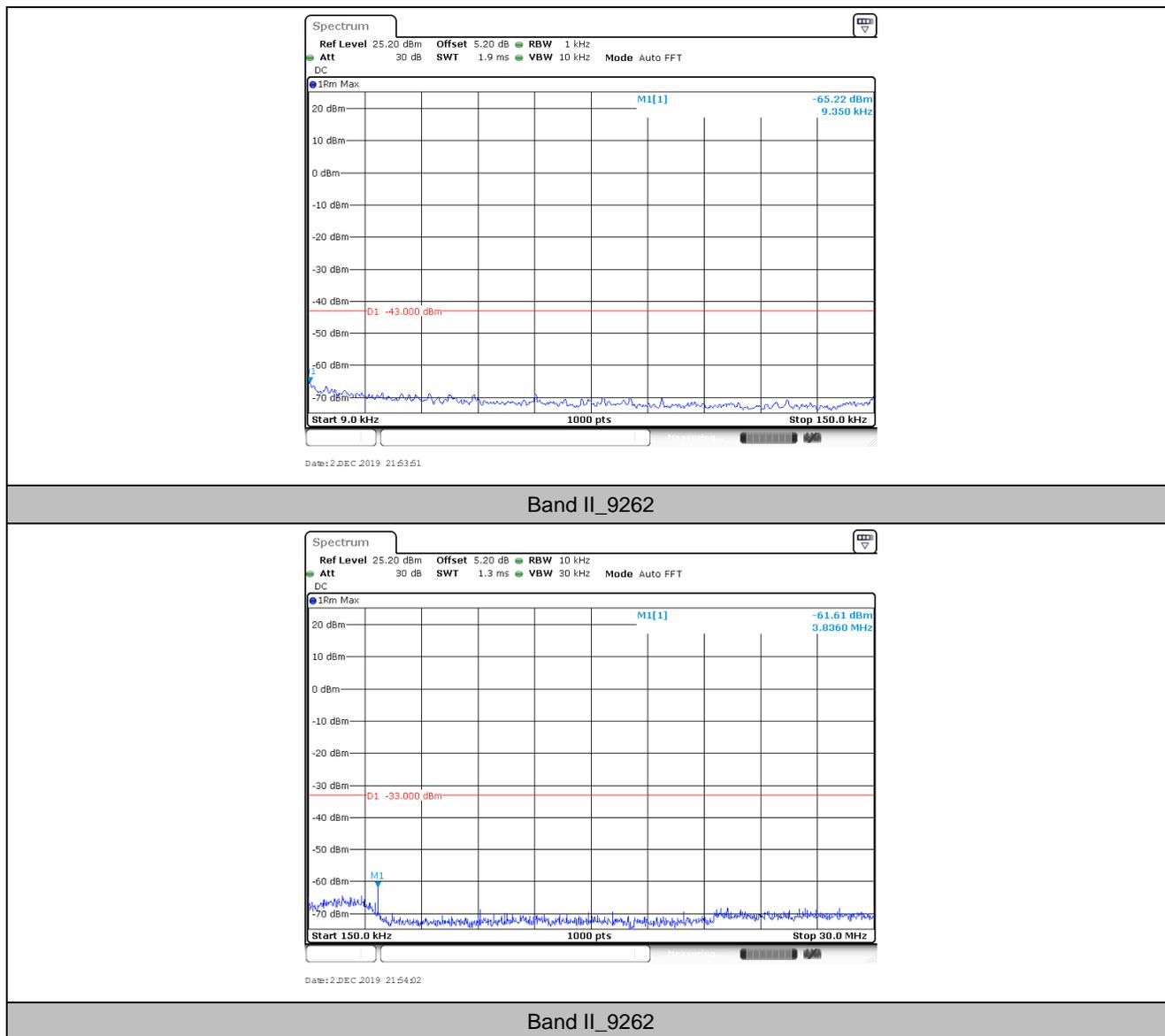
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## 6. Spurious Emission at Antenna Terminal

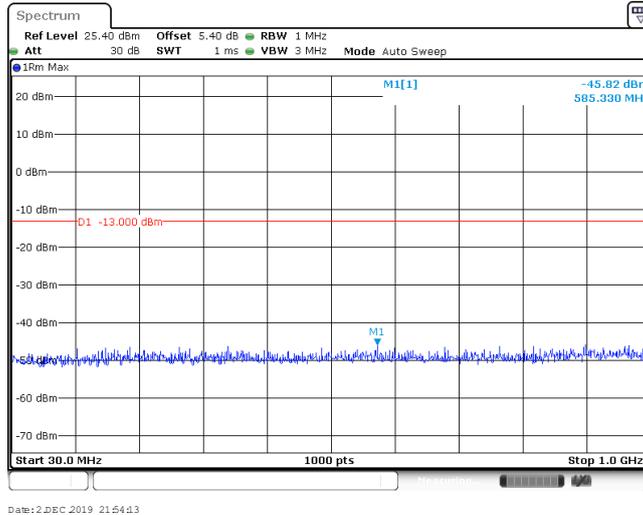
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

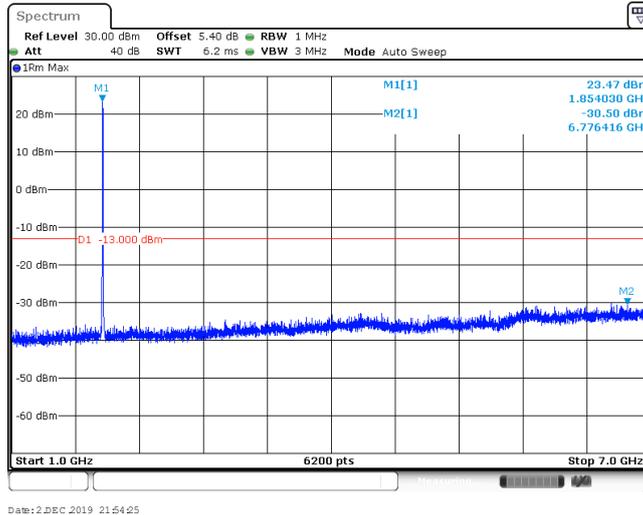
### 6.1. Test Plots for QPSK



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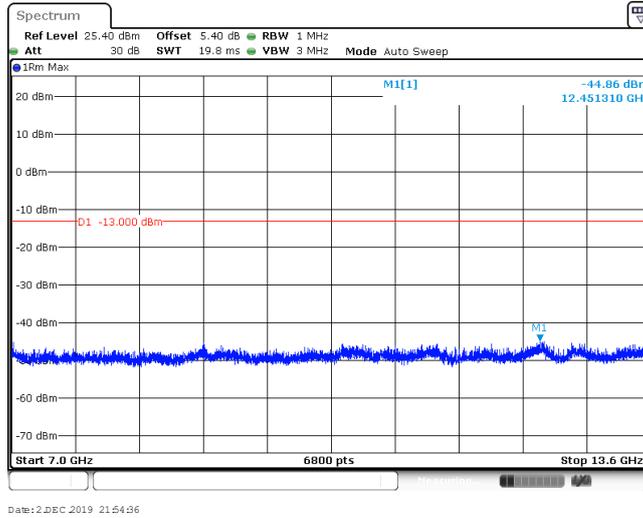
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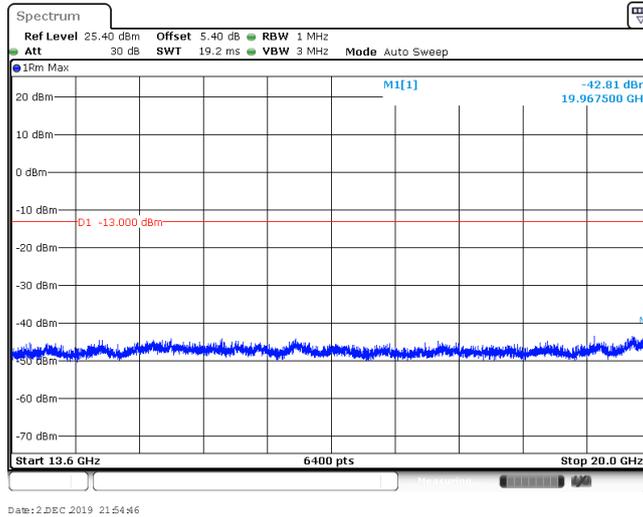
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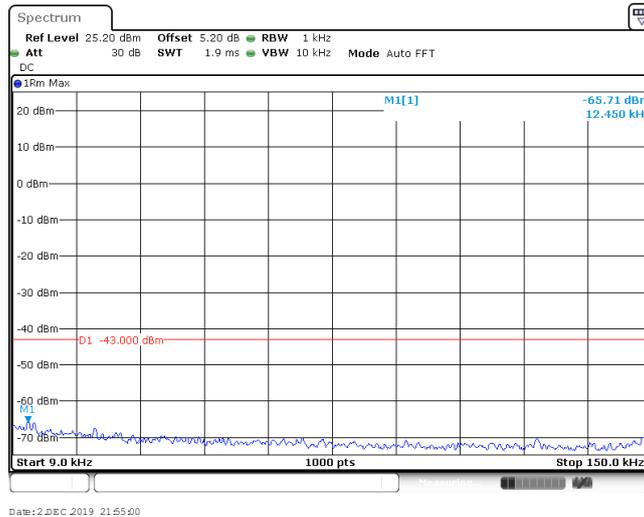


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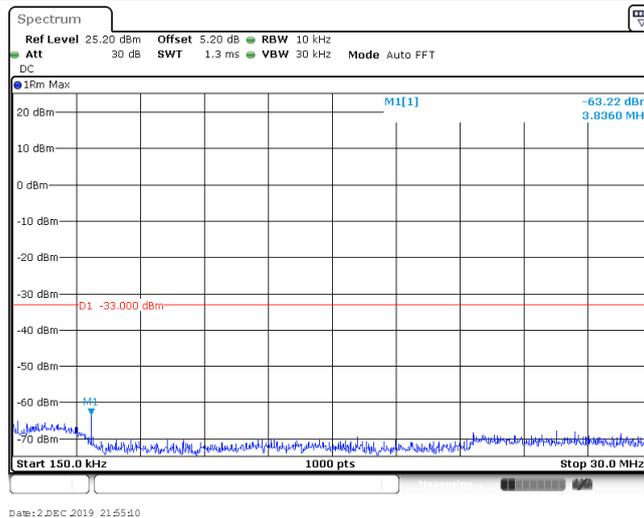


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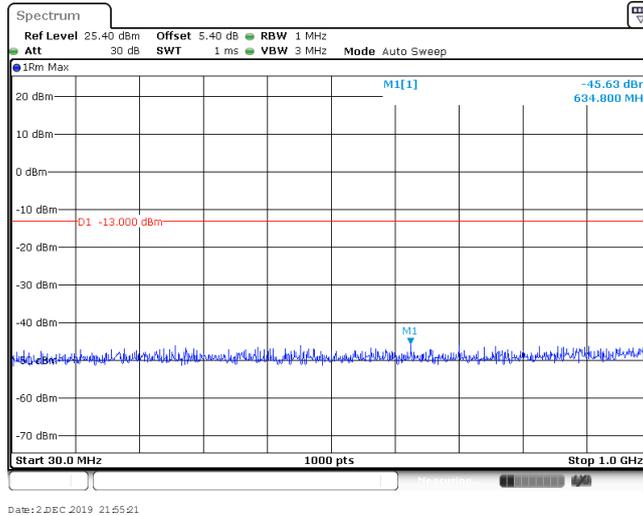
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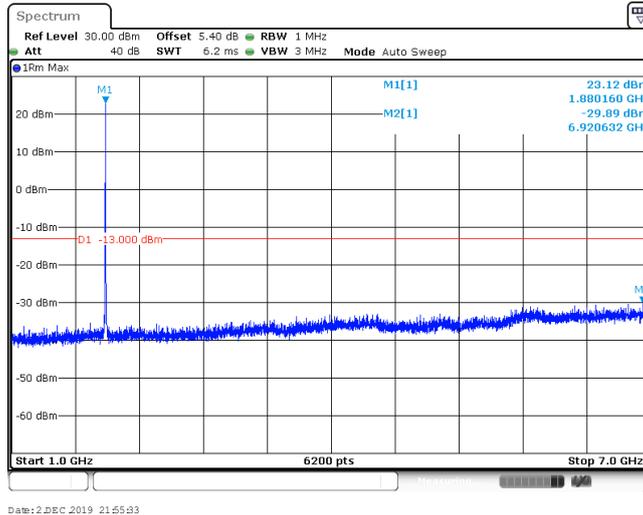
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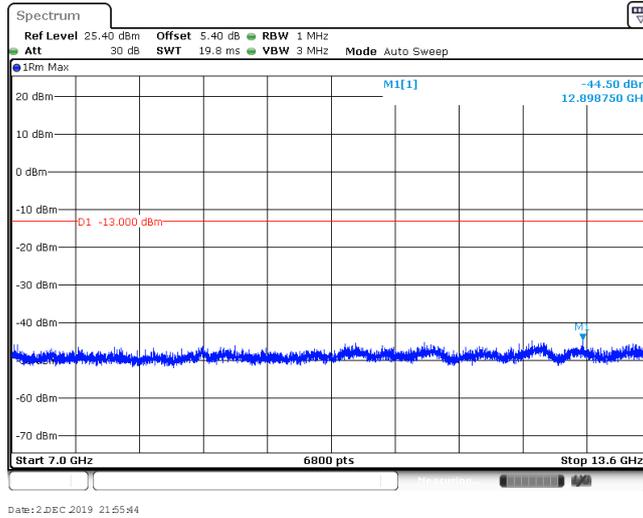
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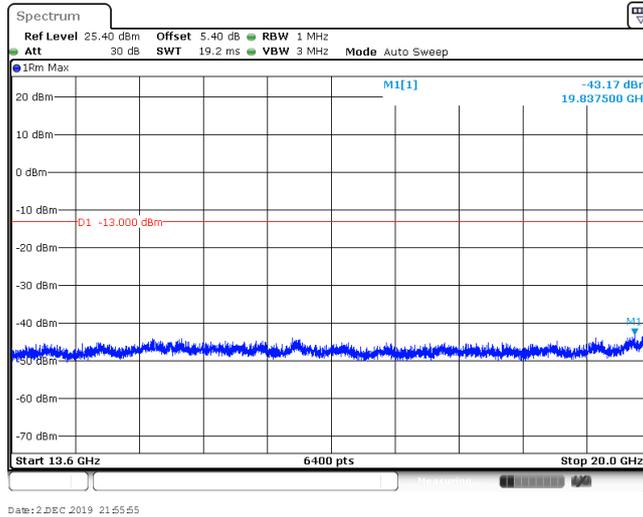
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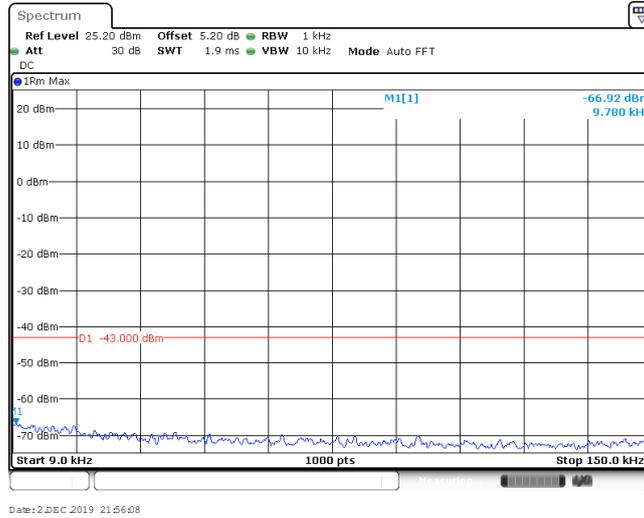
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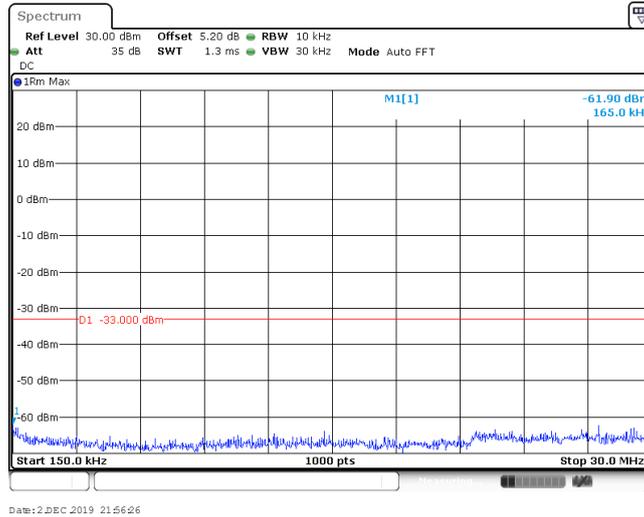
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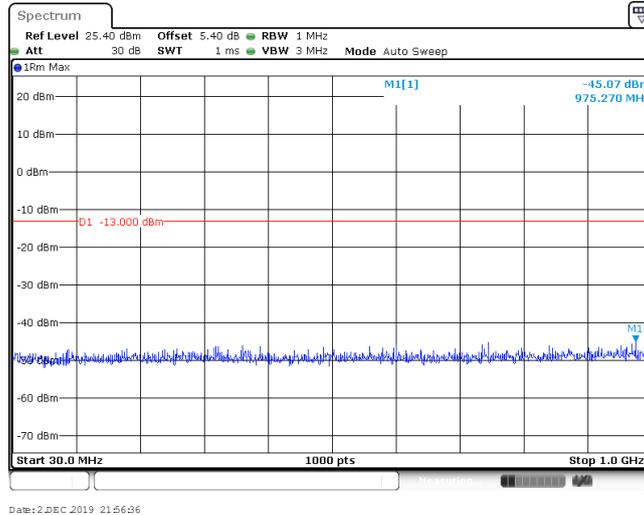


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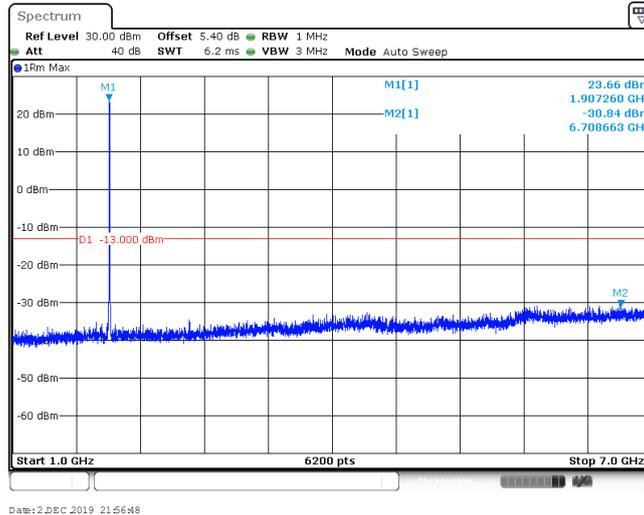


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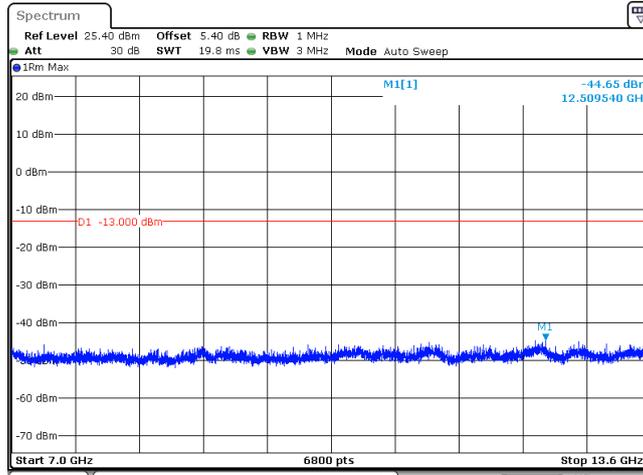
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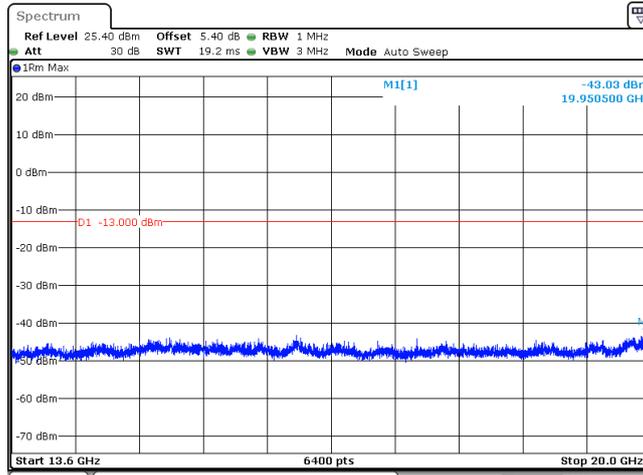


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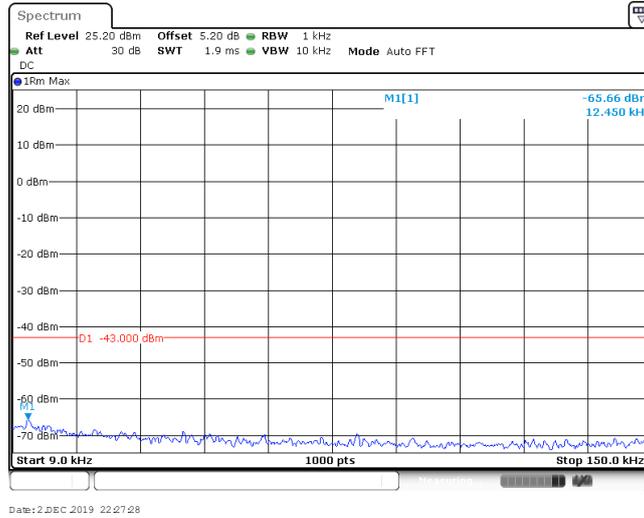


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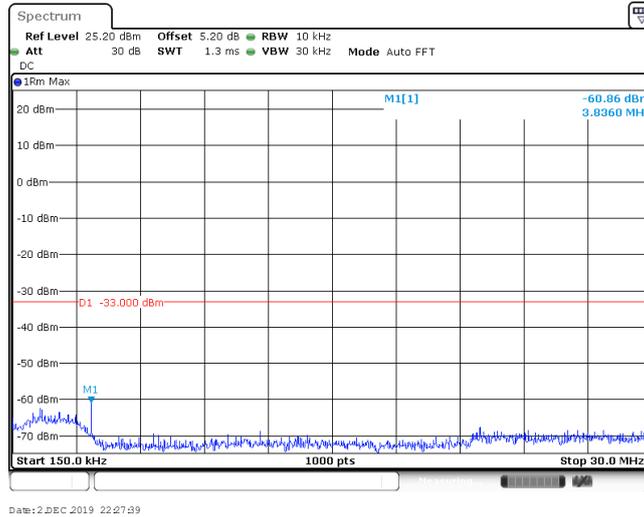
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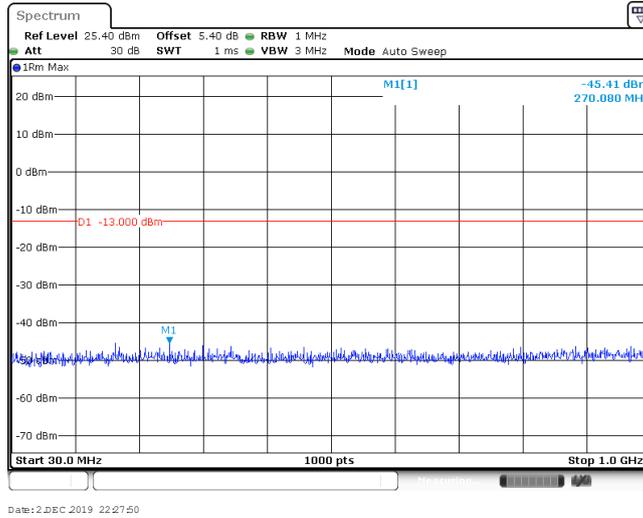


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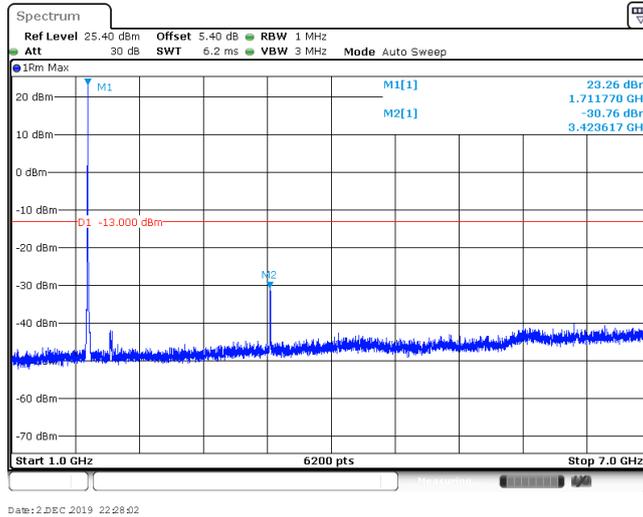


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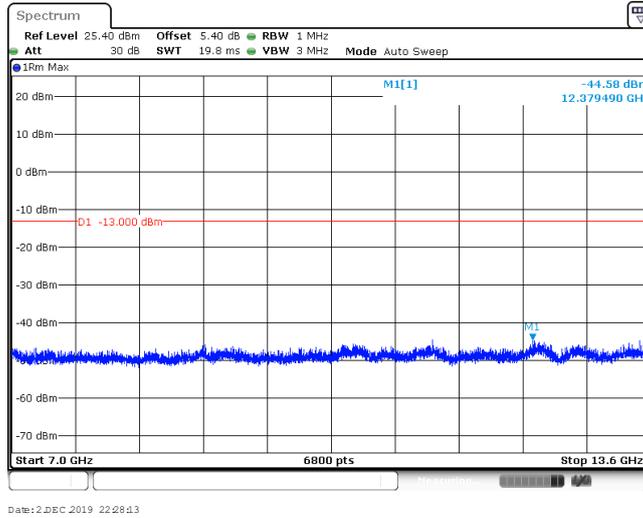
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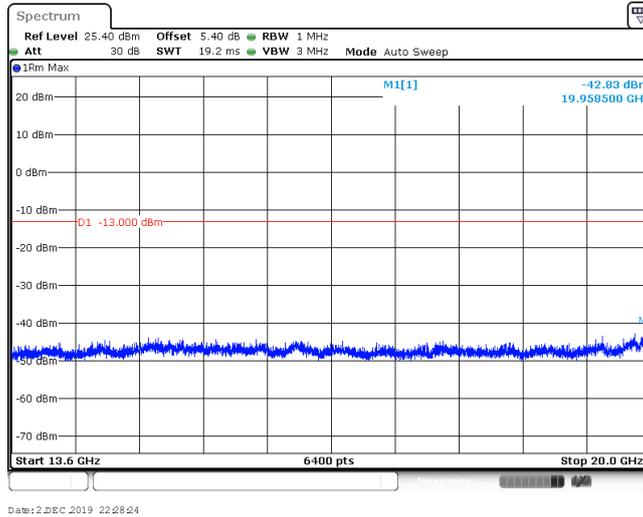
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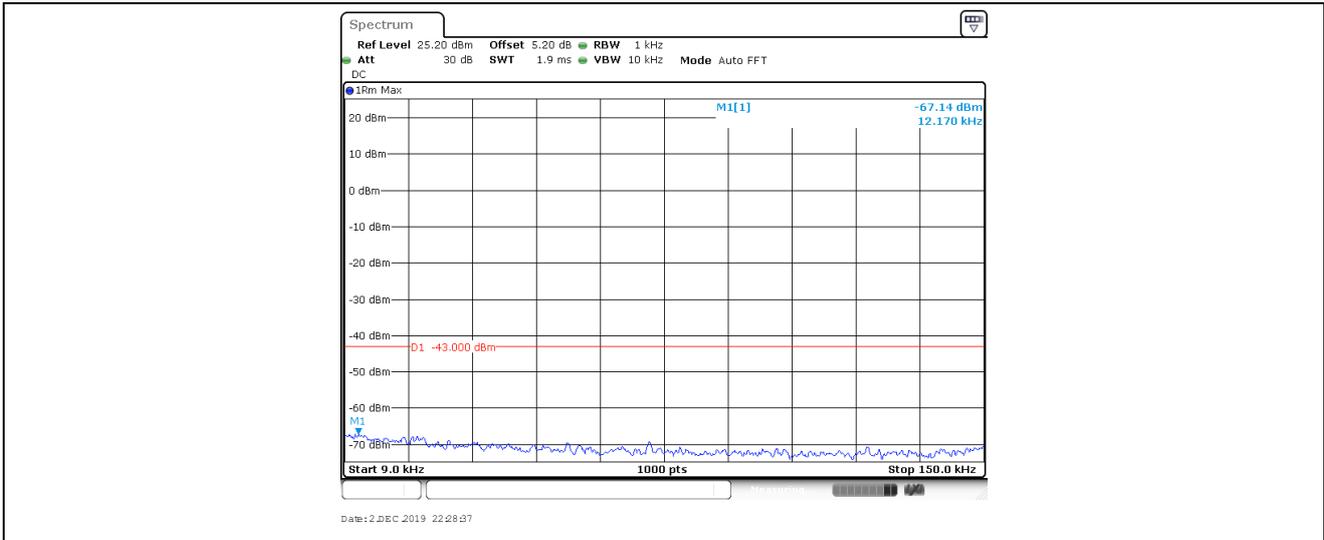
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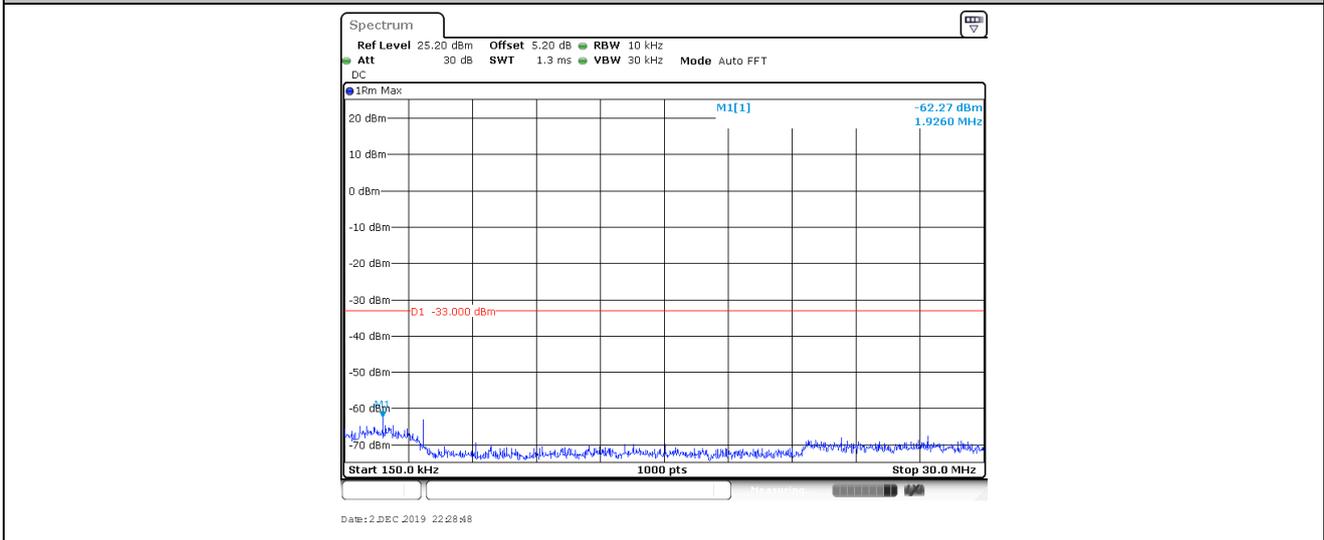
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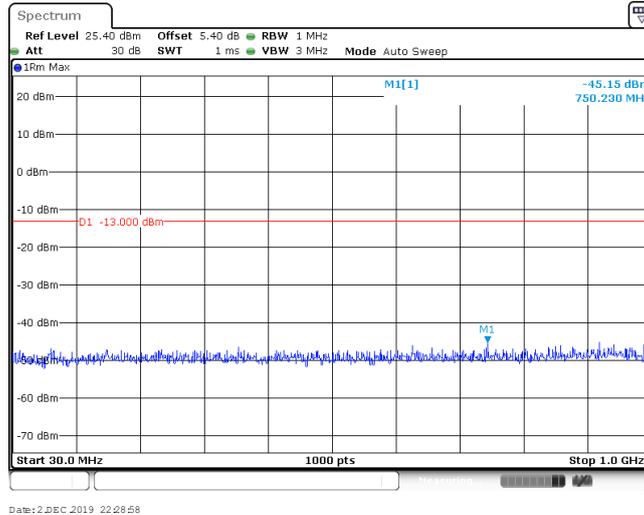
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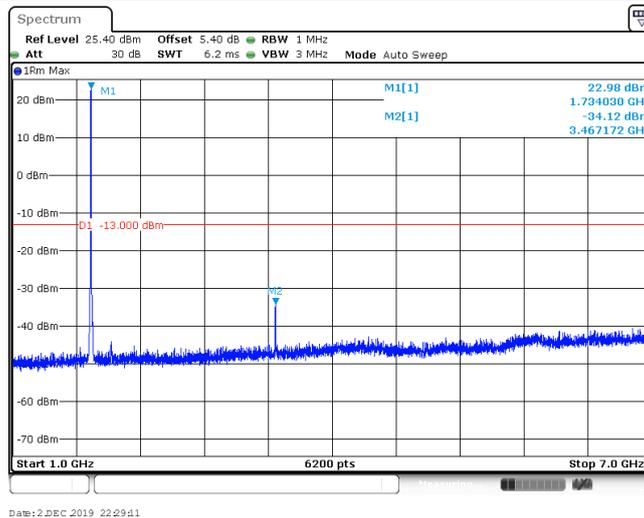
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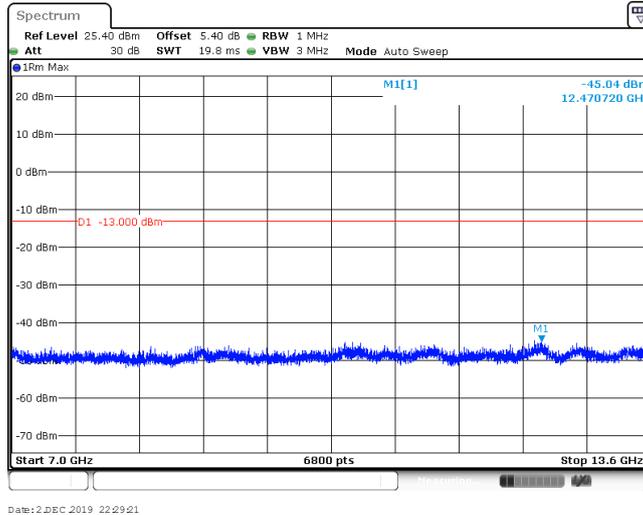


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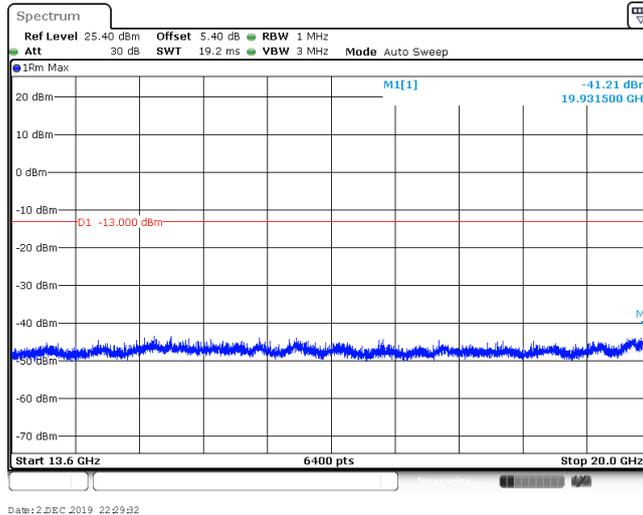


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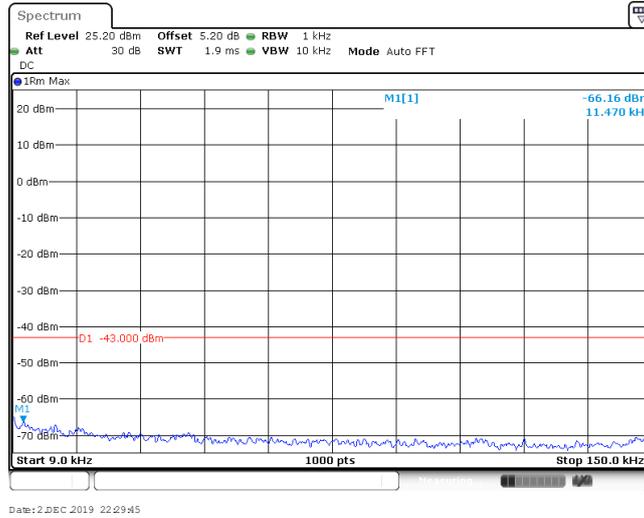
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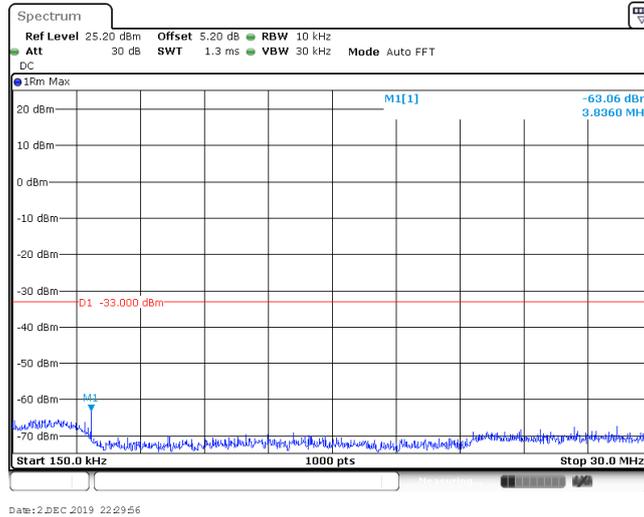
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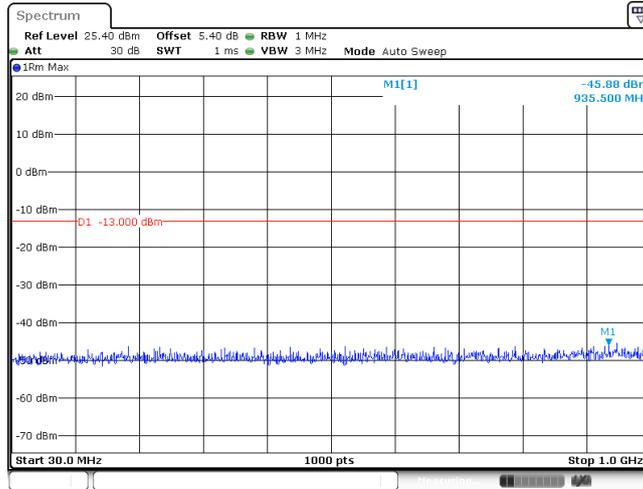
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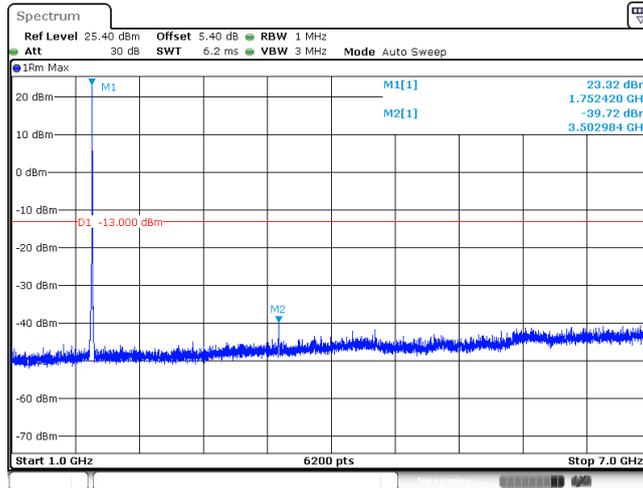


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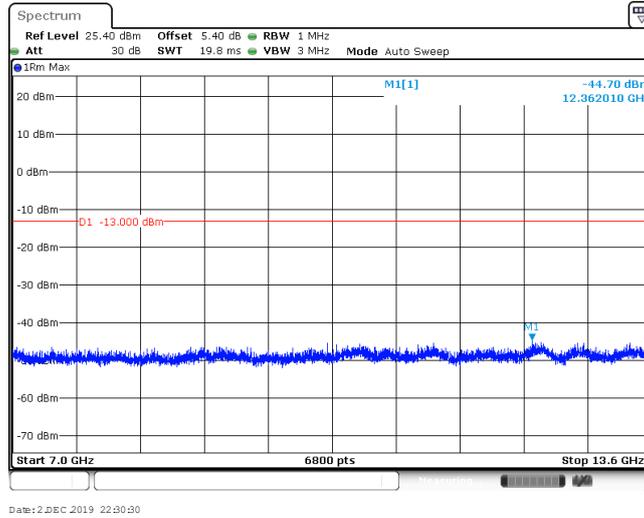
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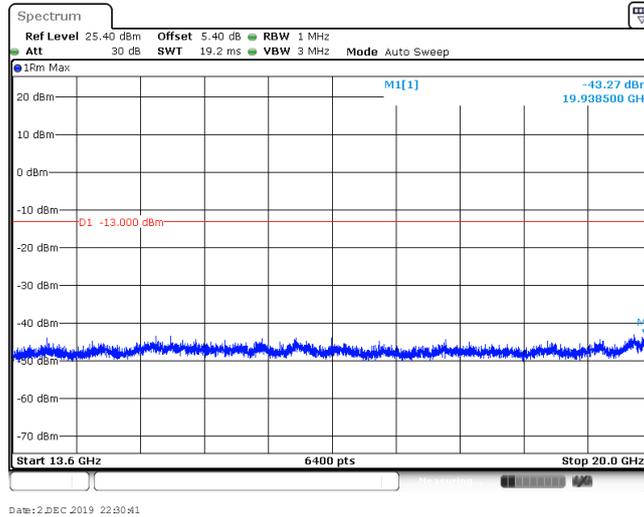


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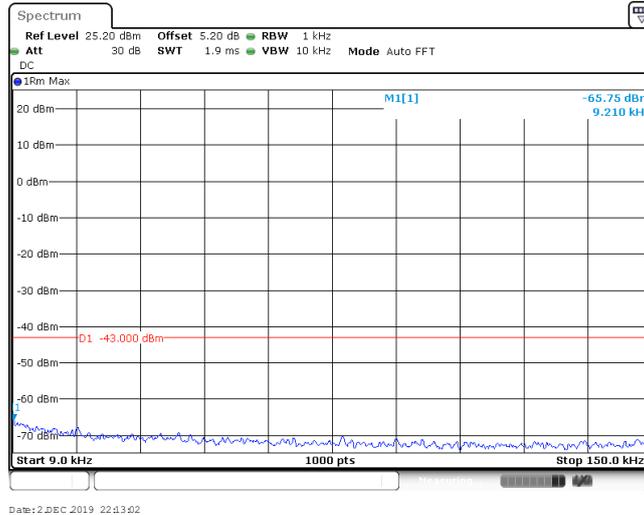
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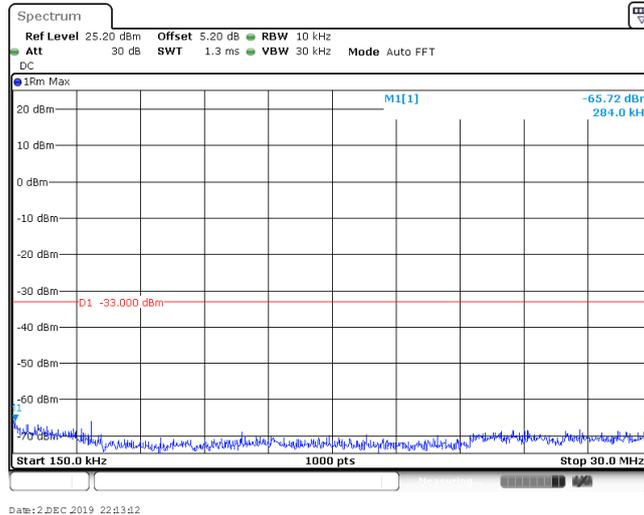
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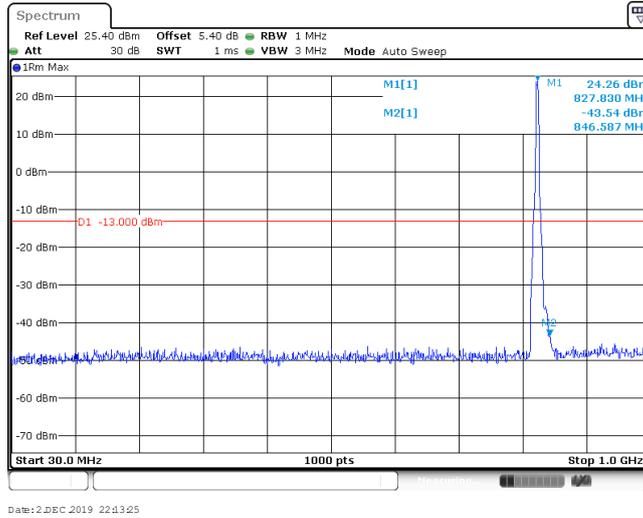


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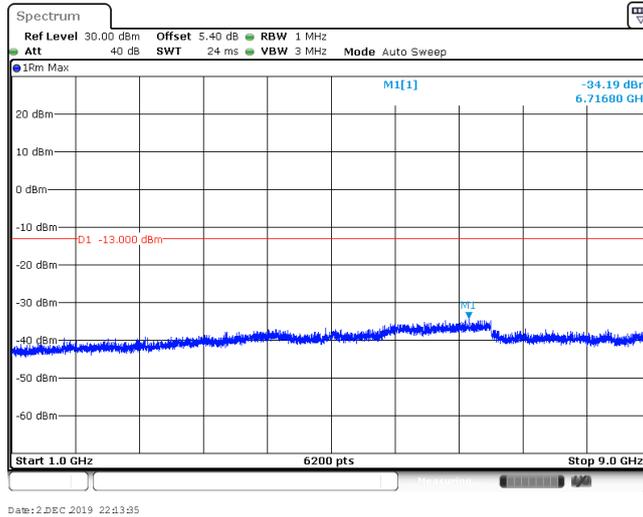


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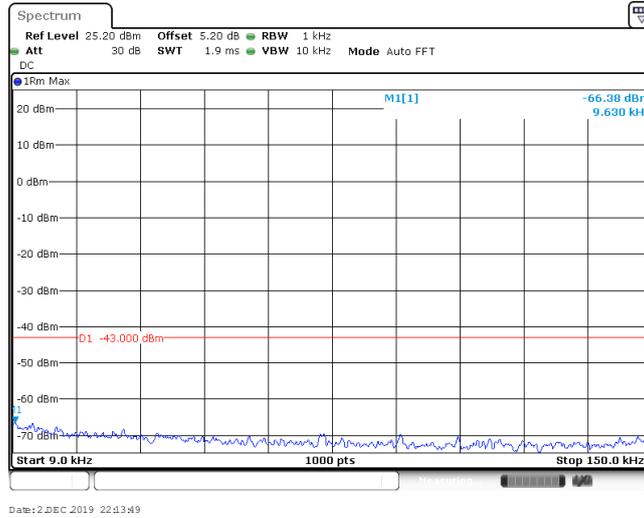


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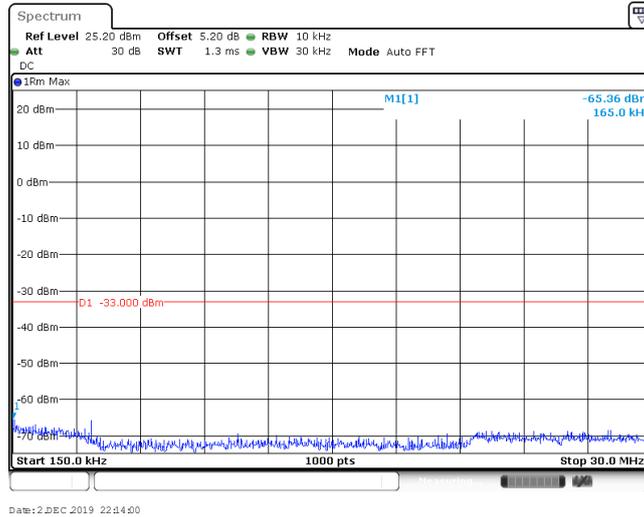


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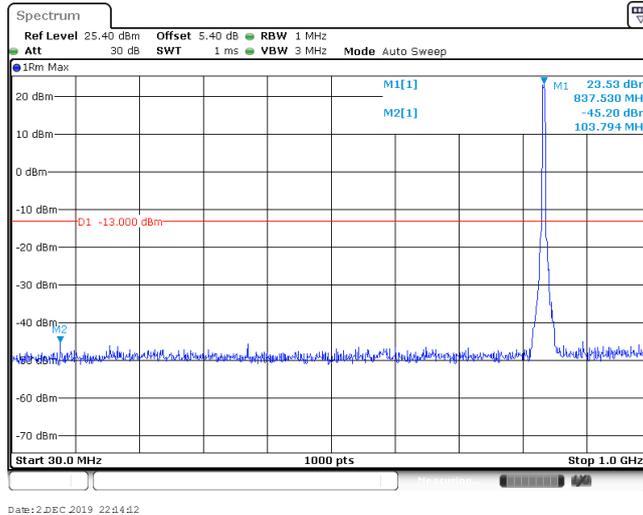
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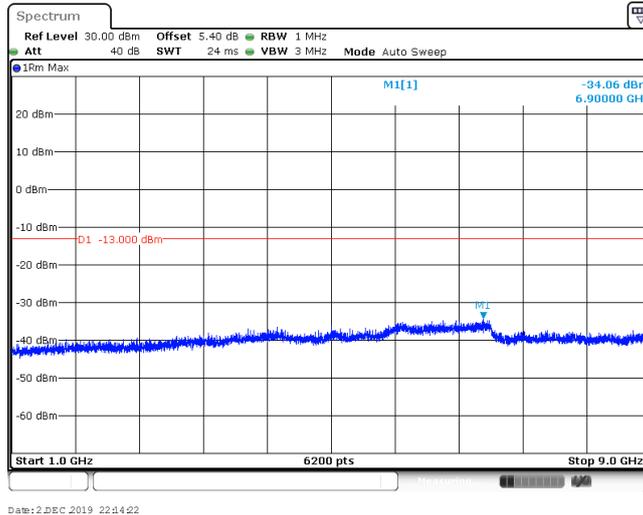
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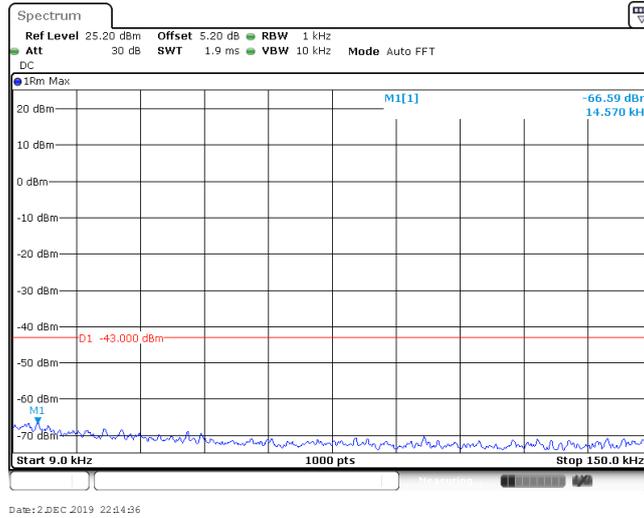


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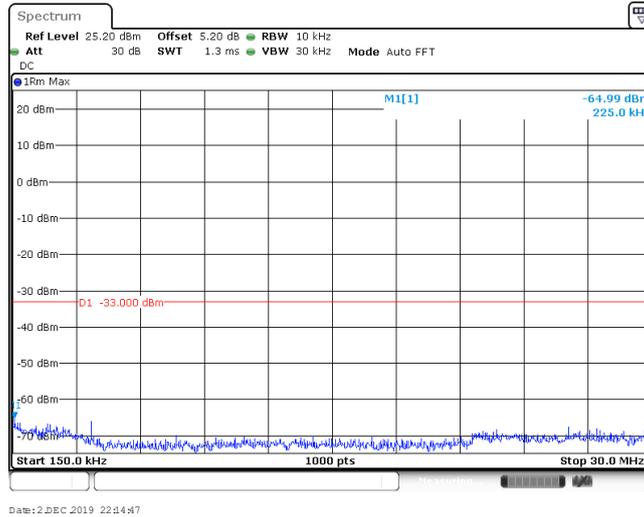


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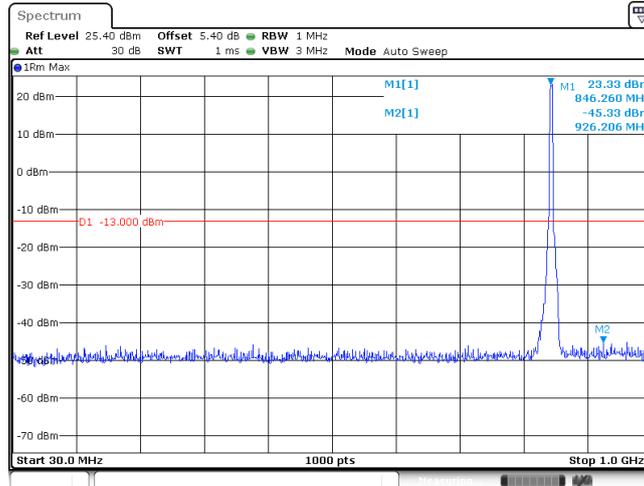
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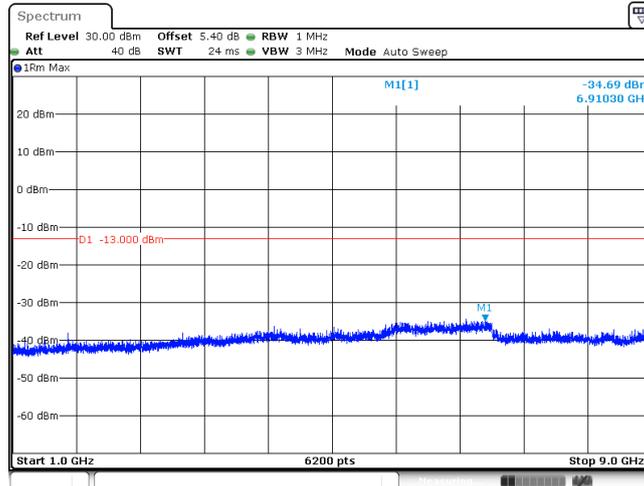


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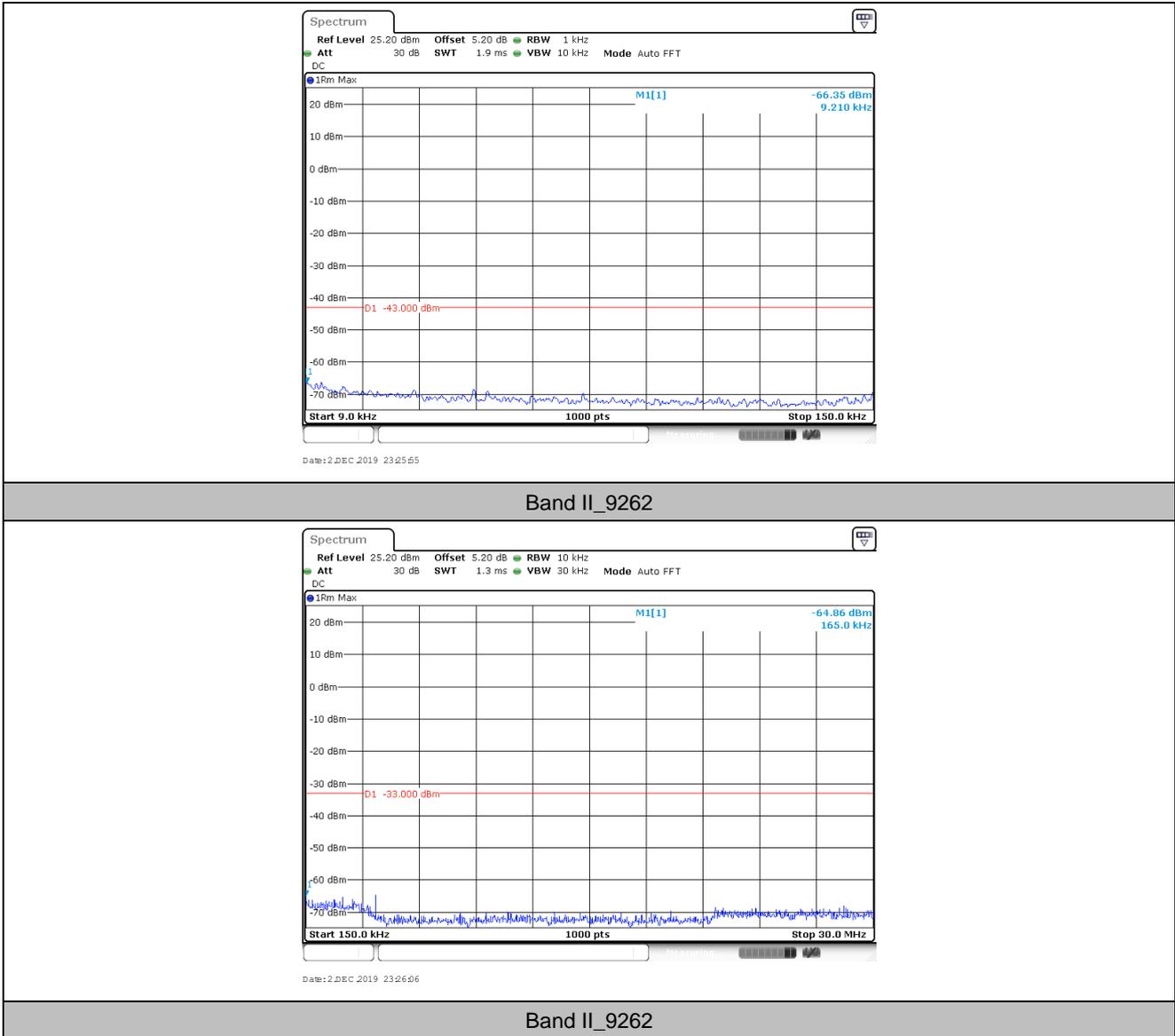
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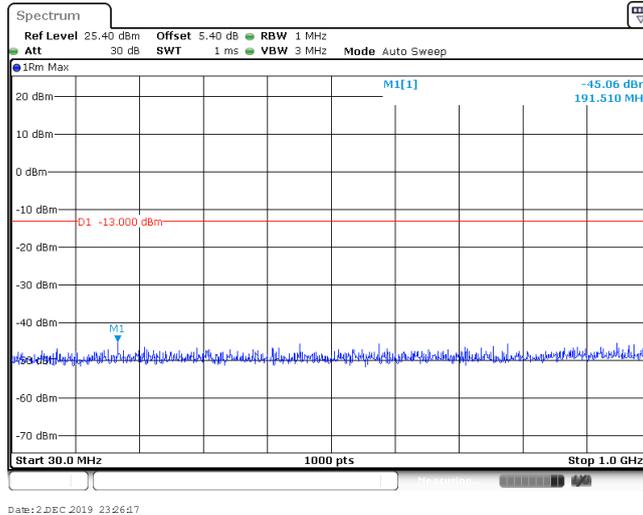
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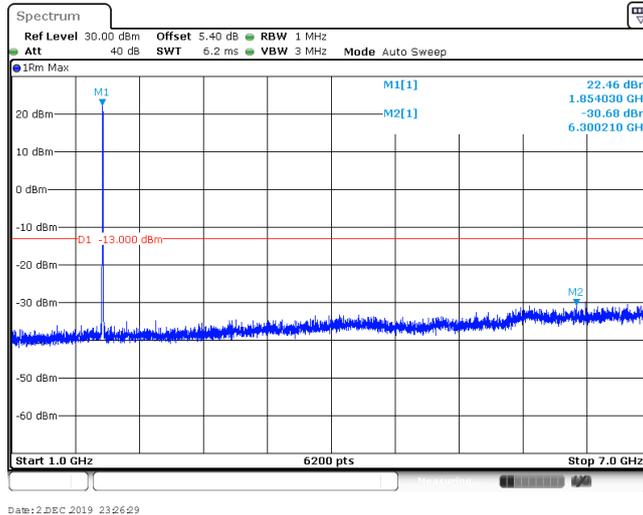


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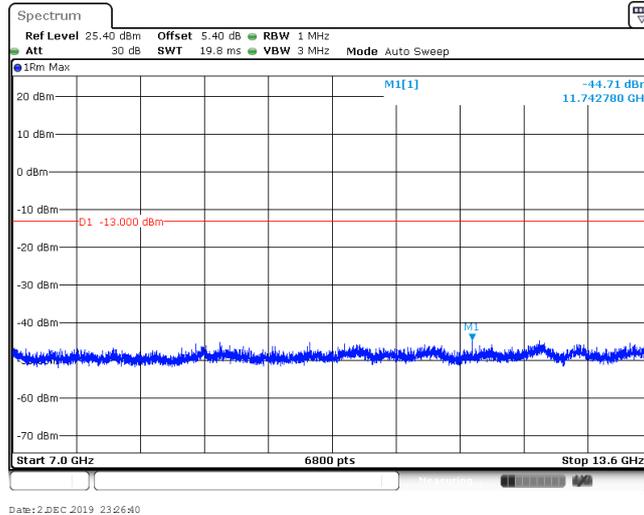


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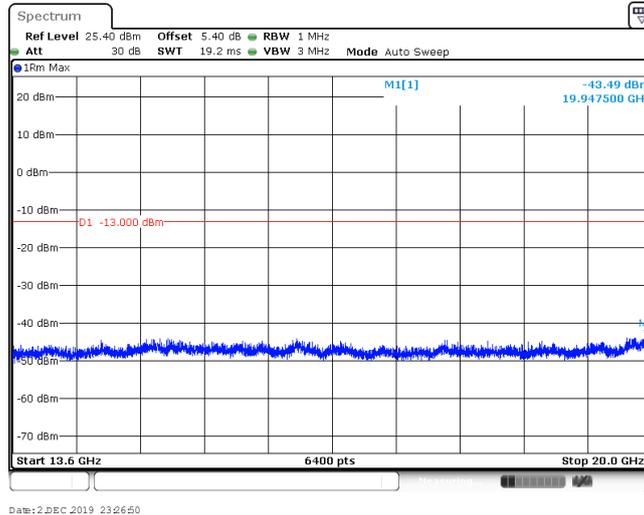
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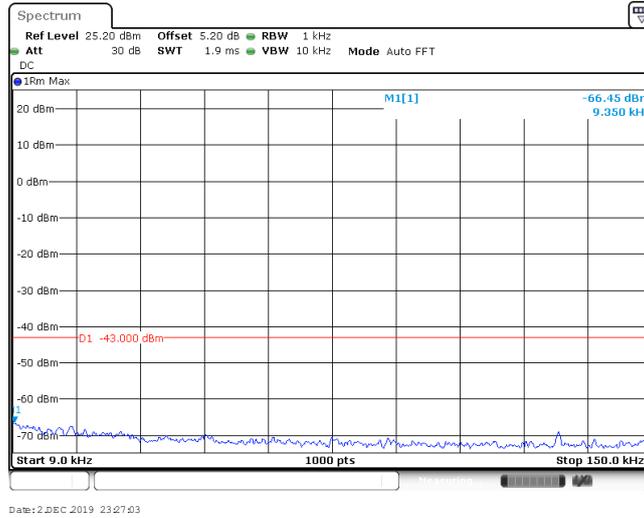


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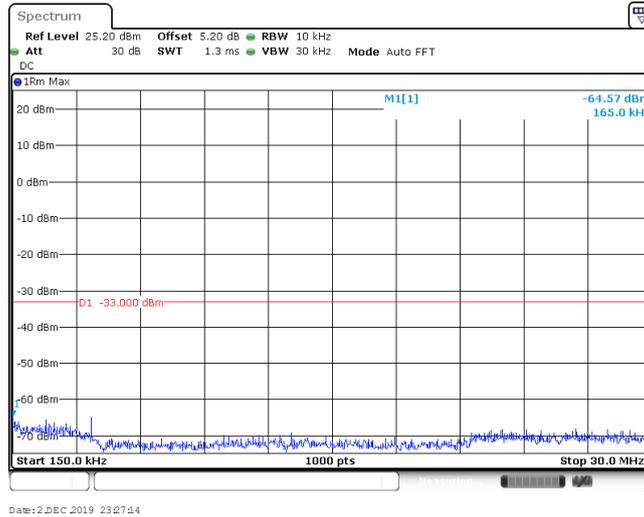
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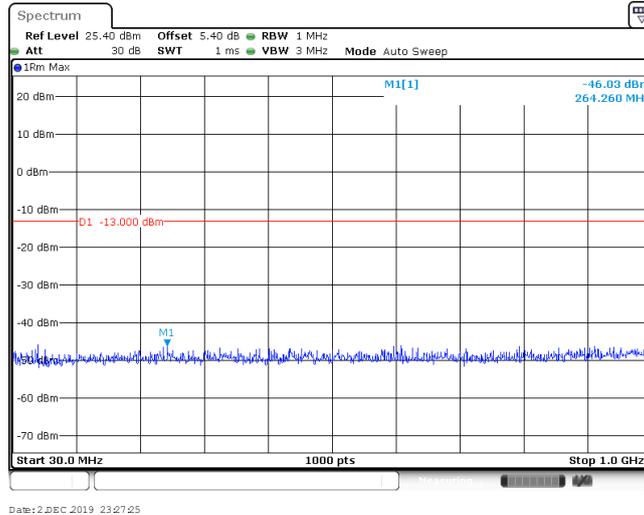
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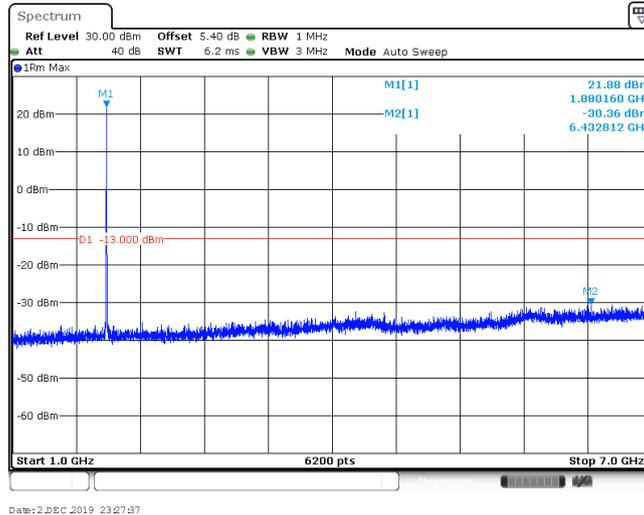
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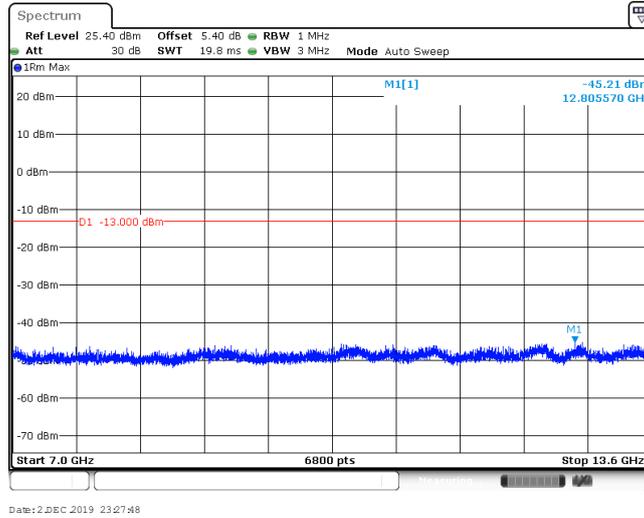


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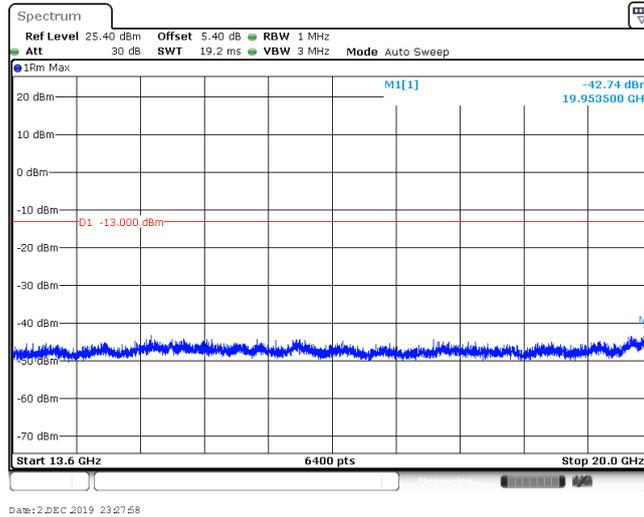


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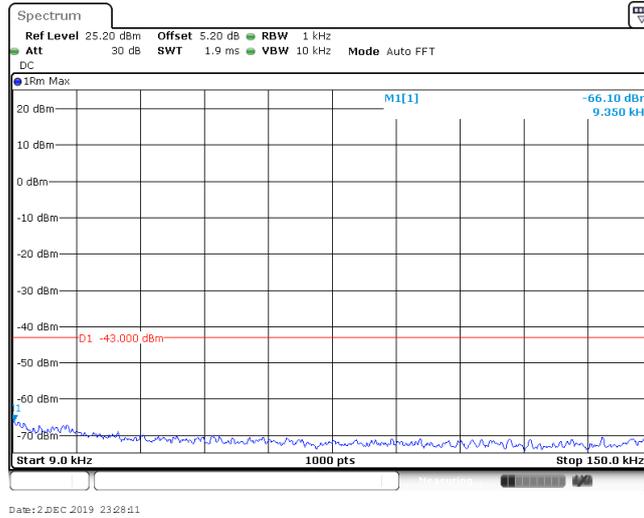
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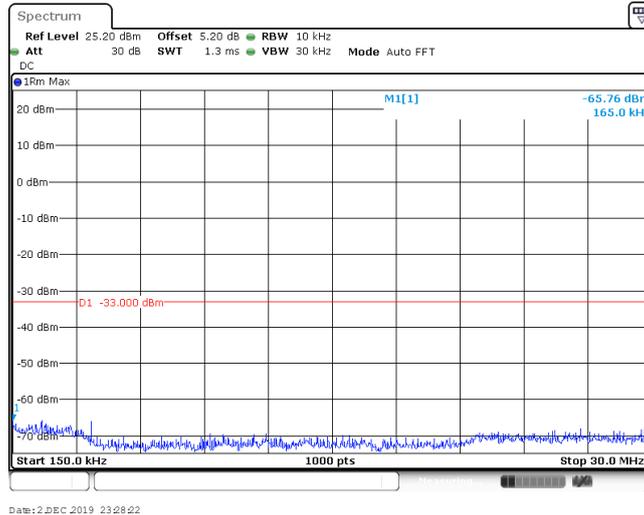
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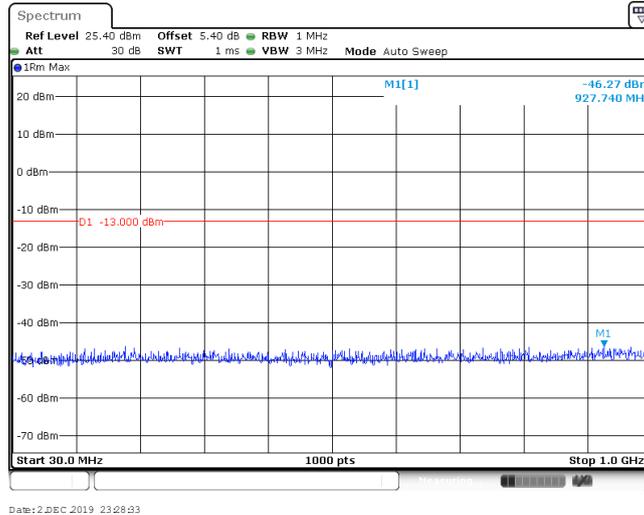
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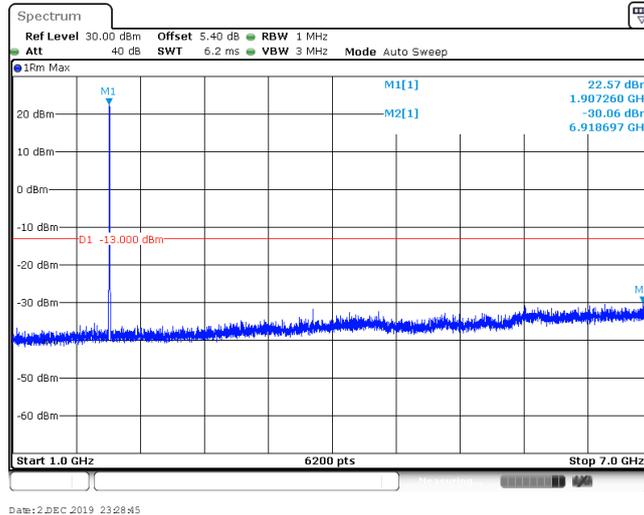
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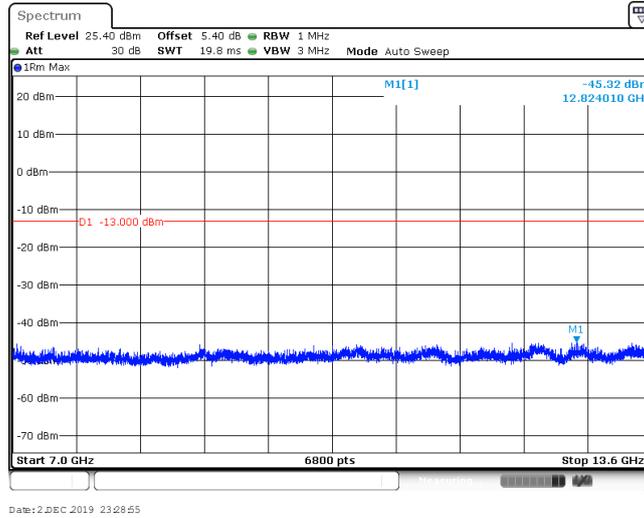
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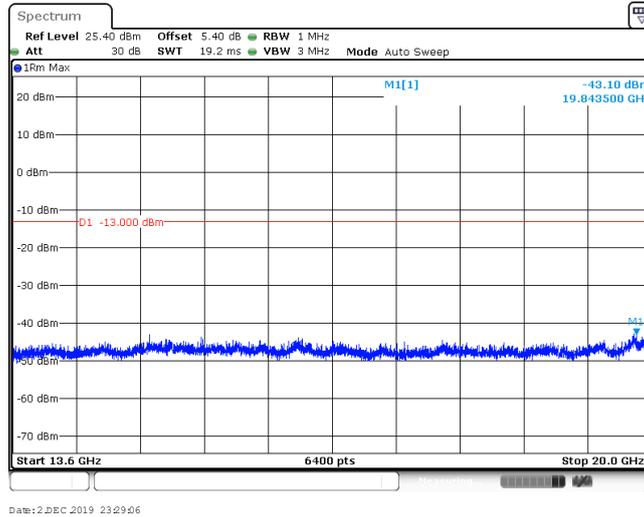


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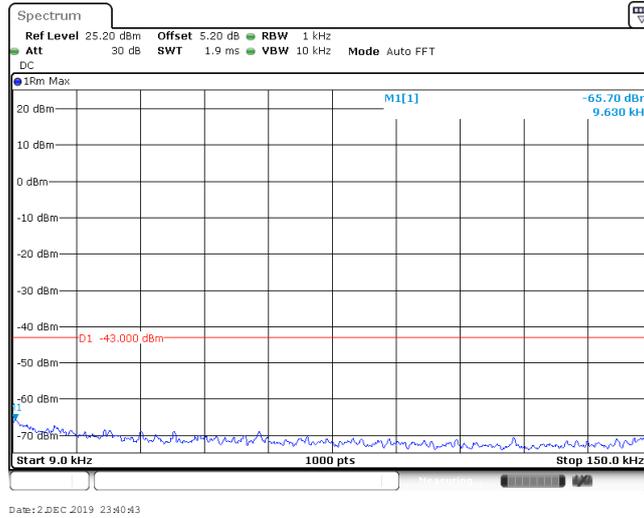


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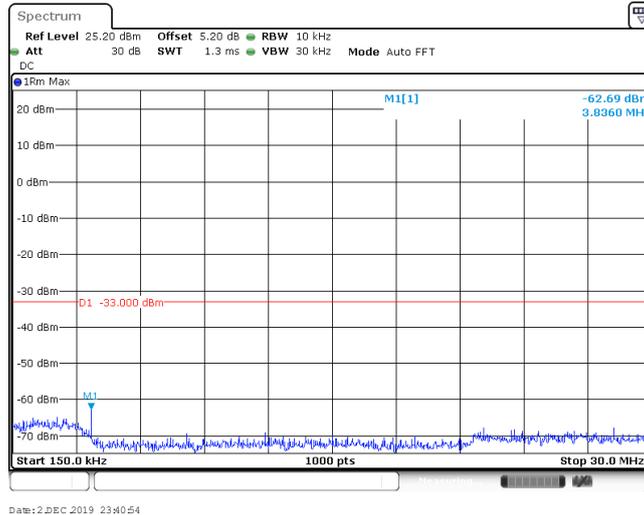
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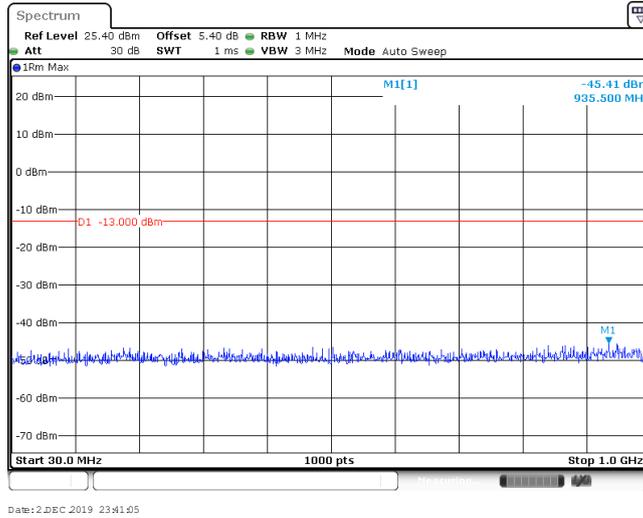


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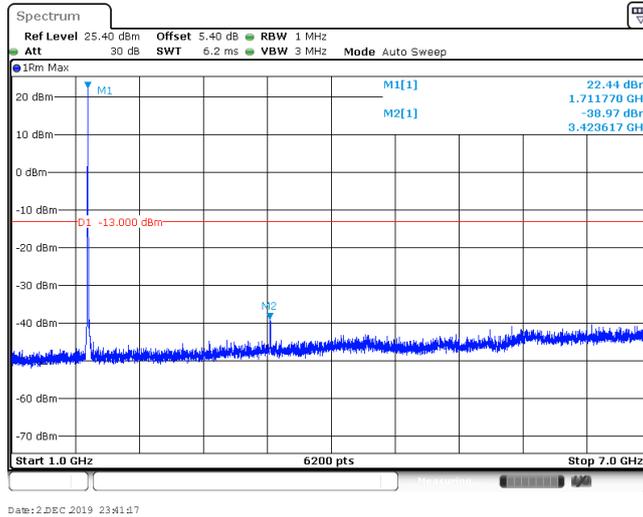


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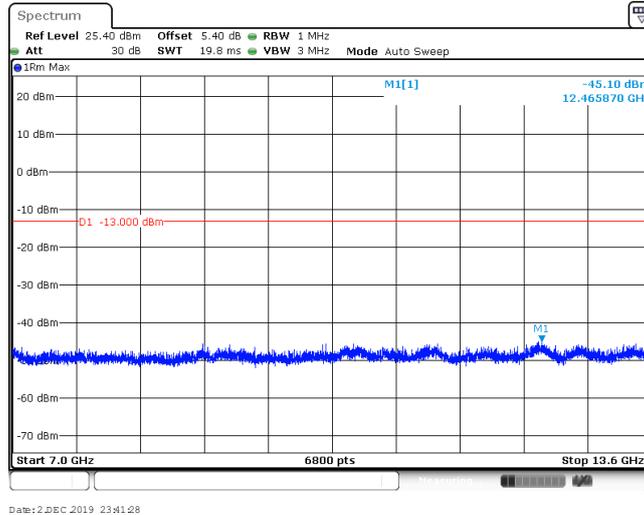


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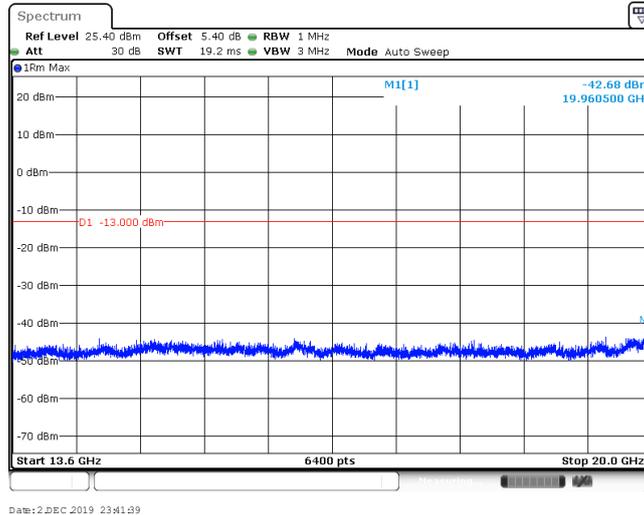


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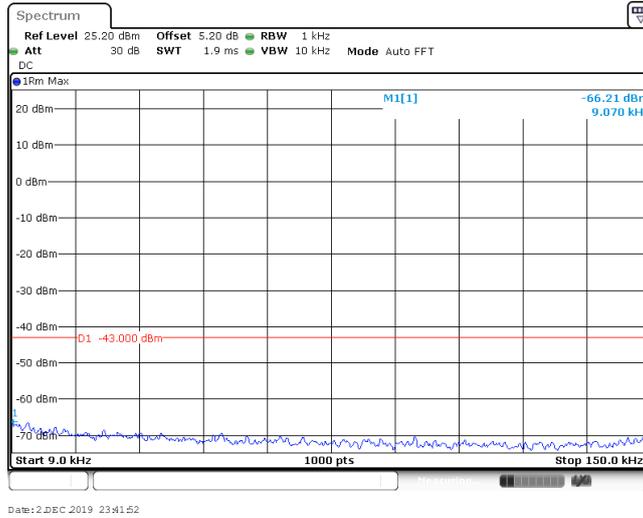
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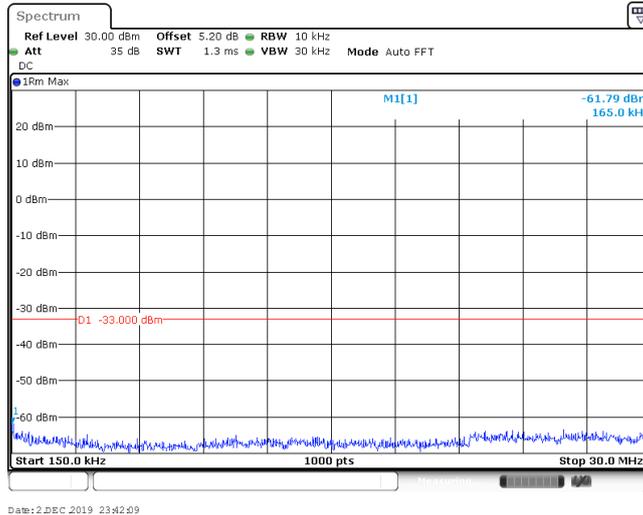
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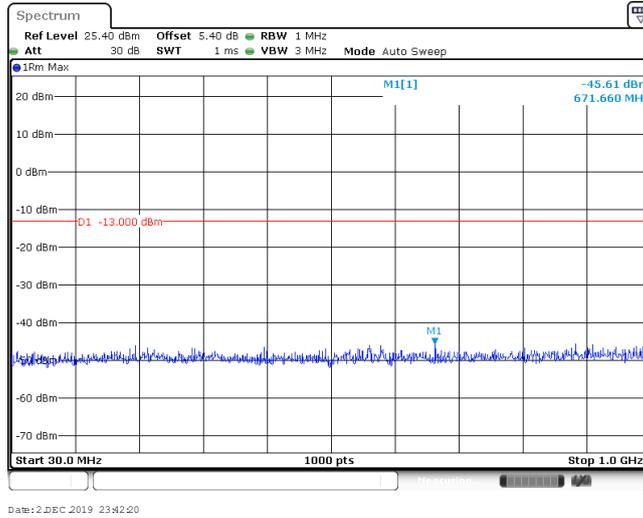
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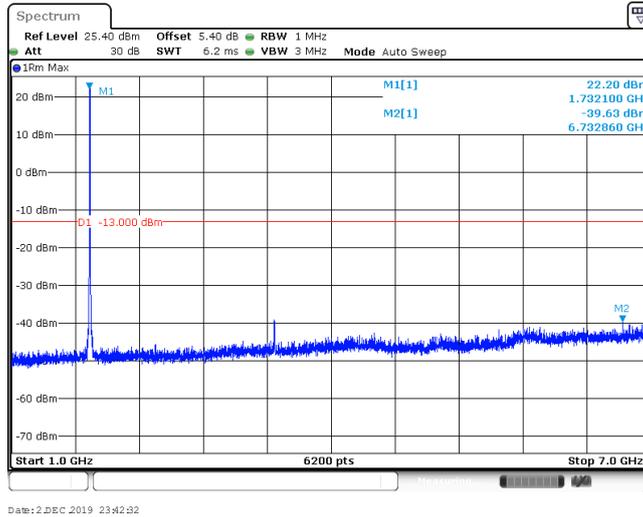
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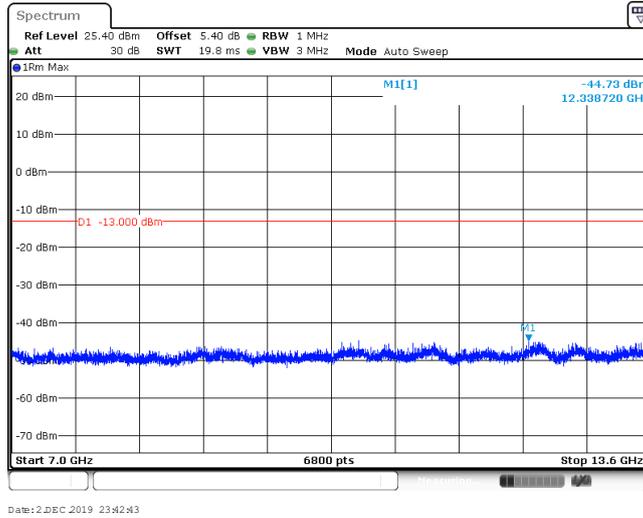
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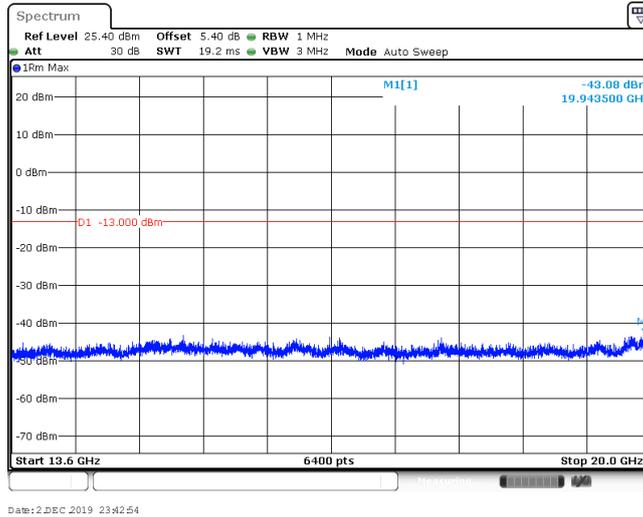
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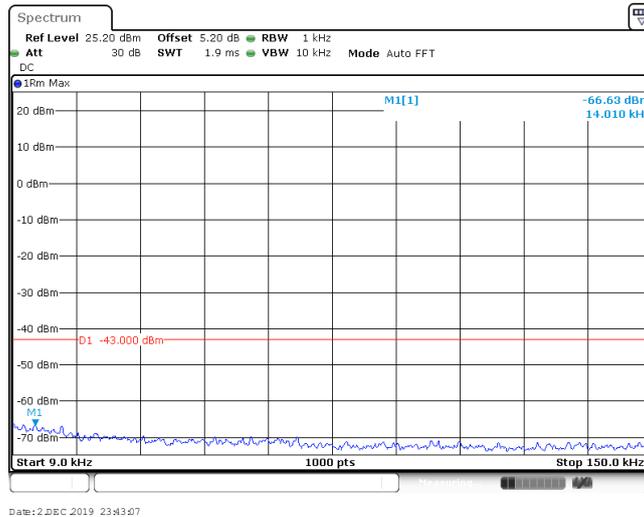
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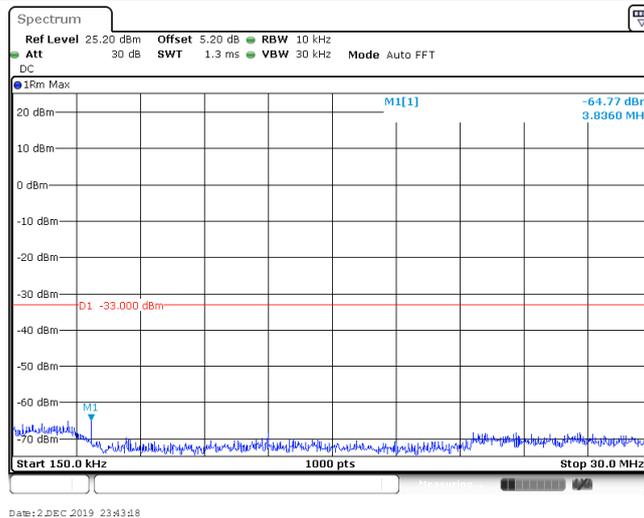
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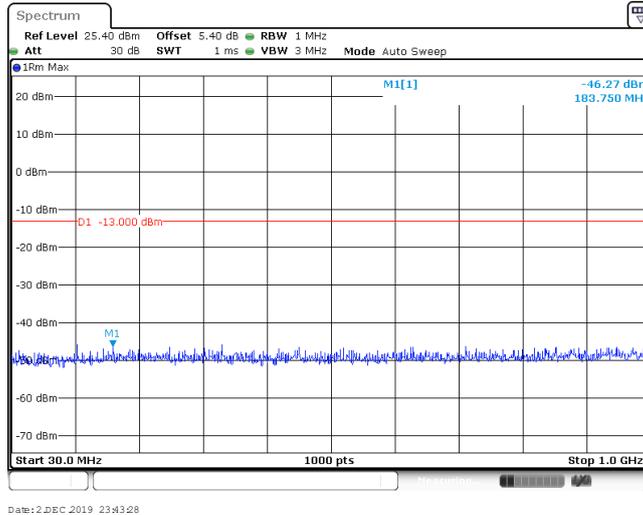
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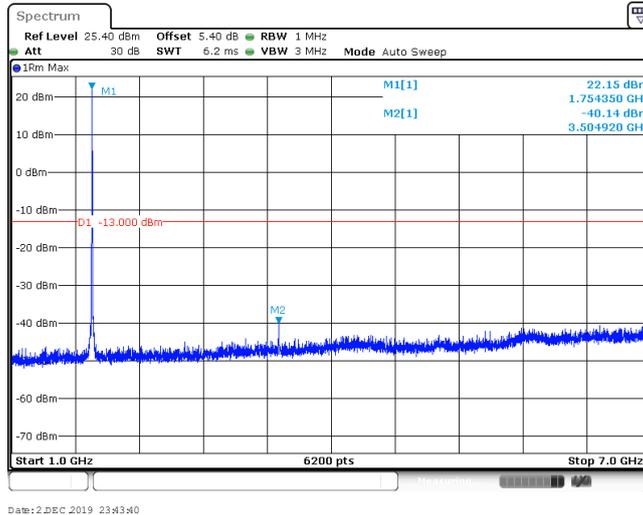
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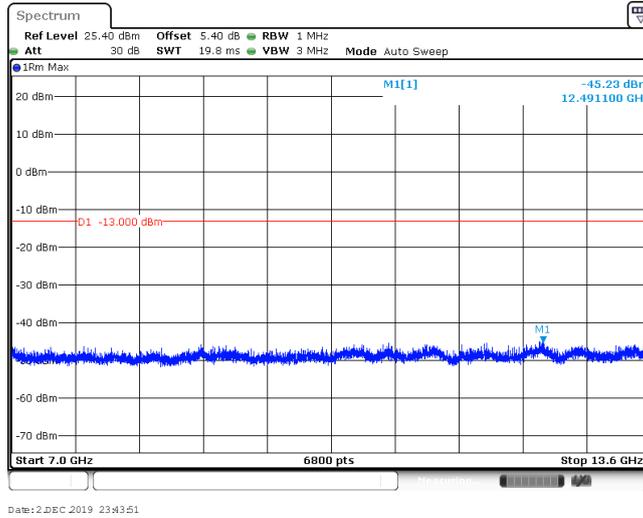


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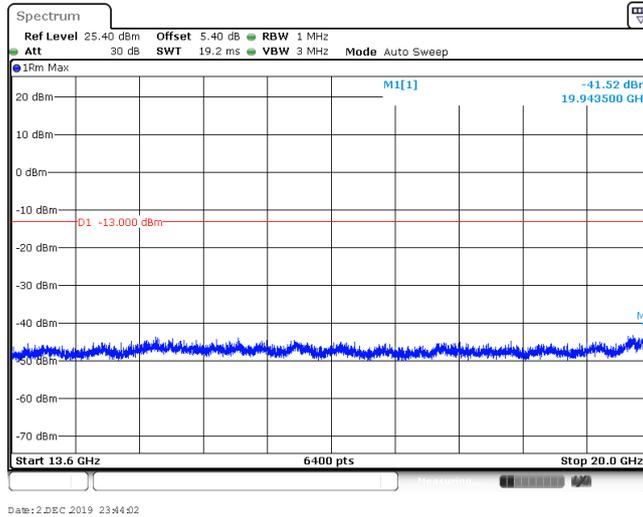
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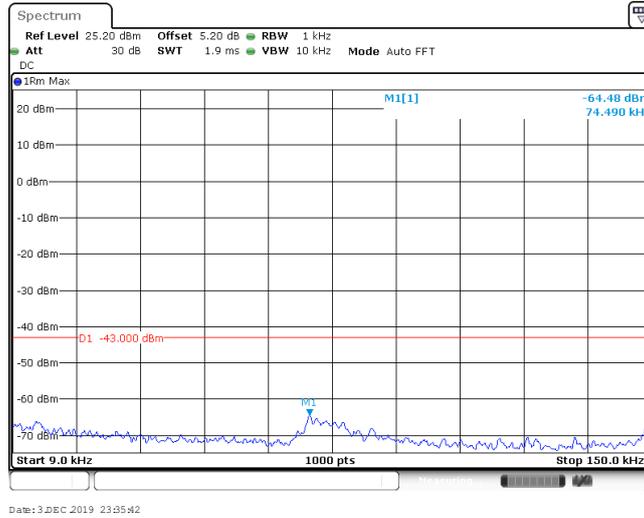


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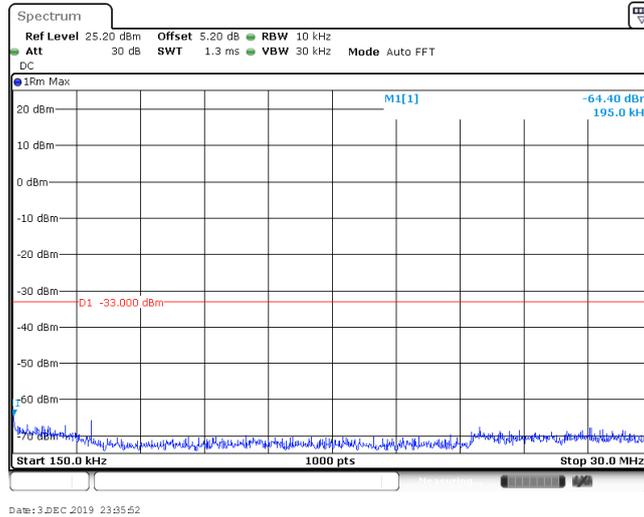
**Band IV\_1513**



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Band V\_4132

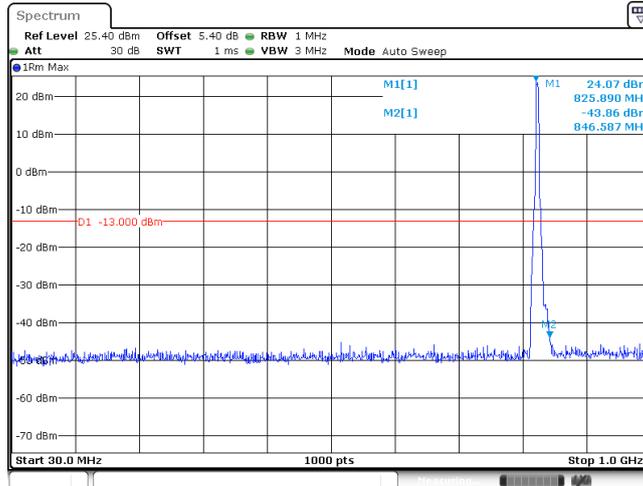


Band V\_4132



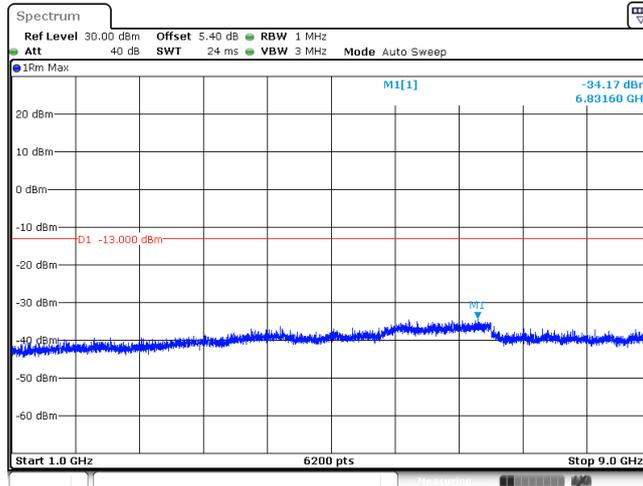
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Date: 3 DEC 2019 23:36:04

Band V\_4132

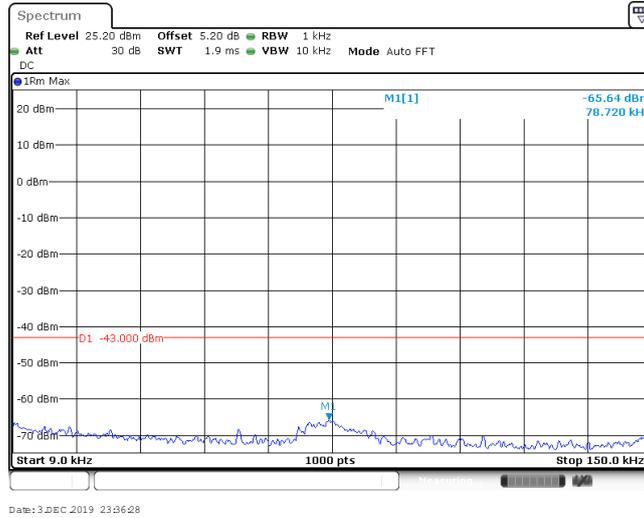


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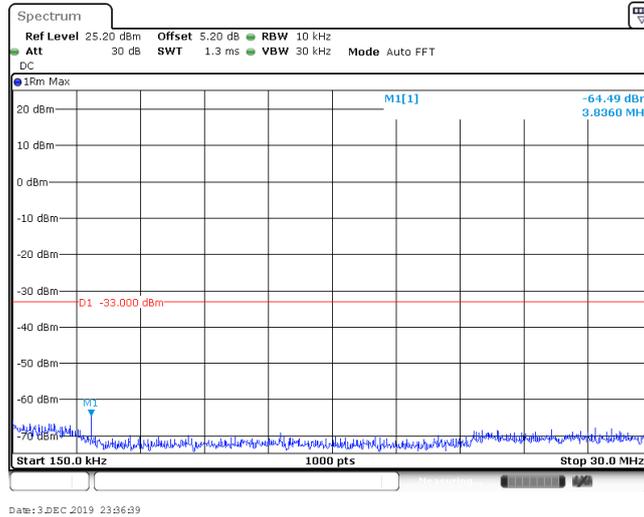
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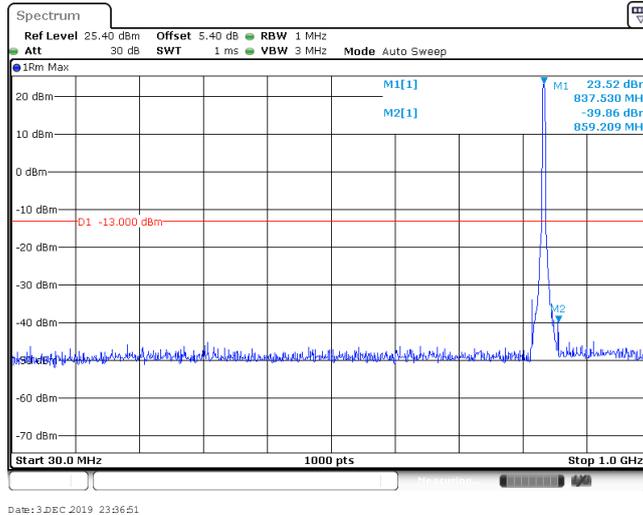
Band V\_4182



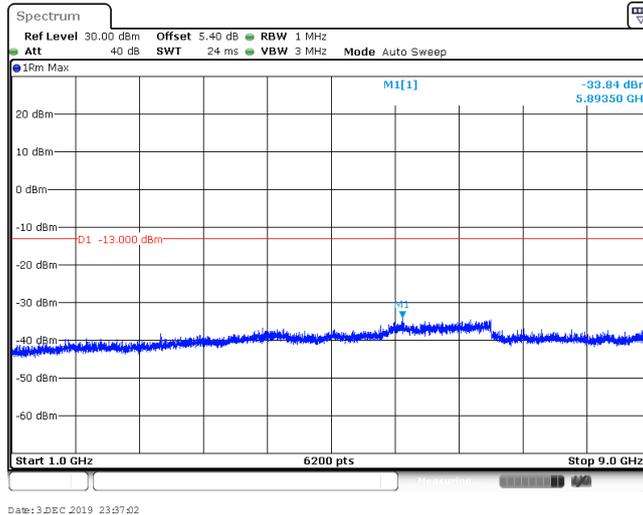
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Band V\_4182

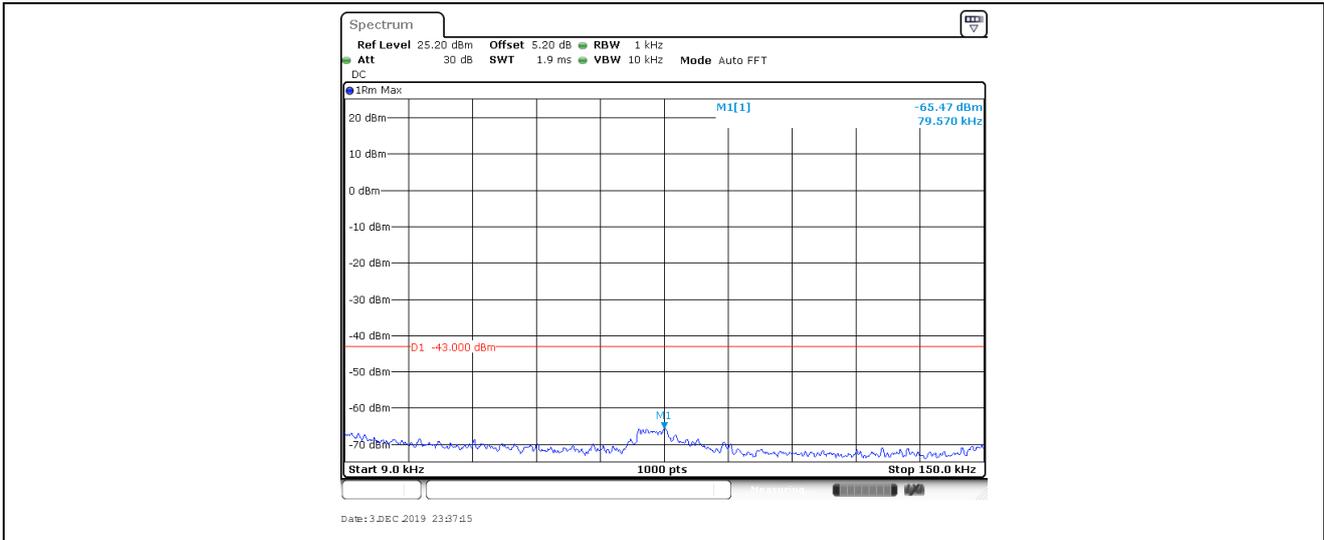


Band V\_4182

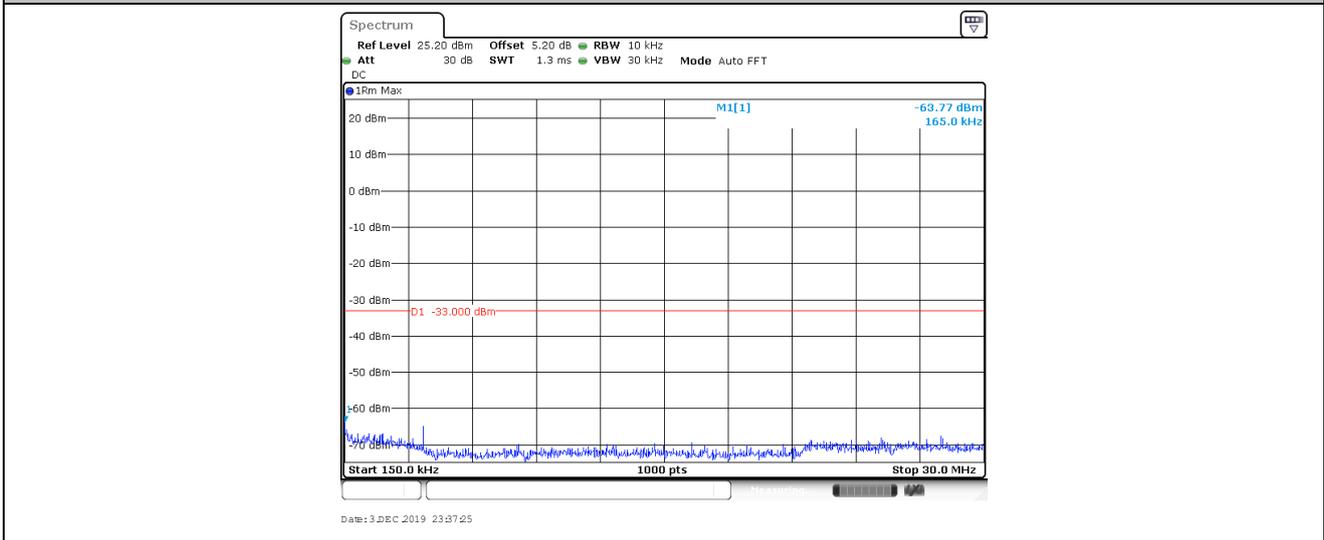


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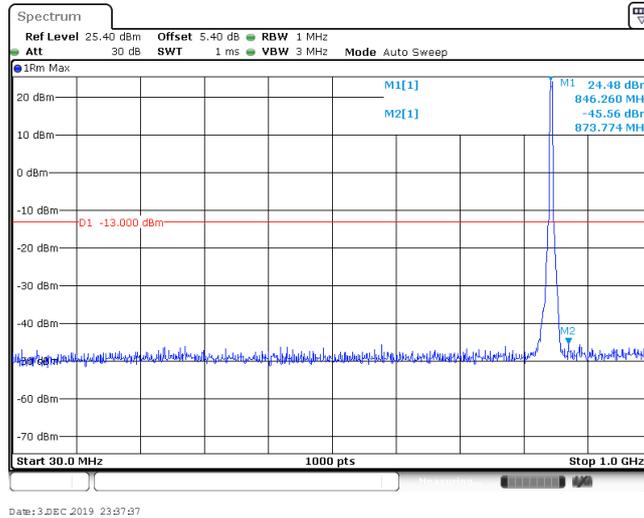
Band V\_4233



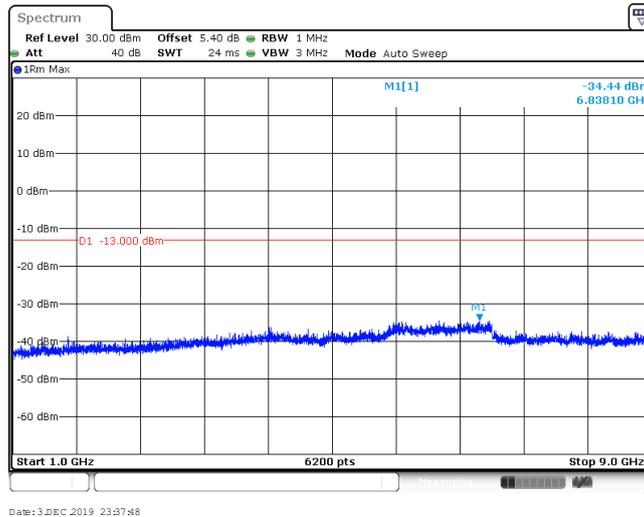
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## 7. Field Strength of Spurious Radiation

### 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)	Height [cm]	Angle [°]	Polarization
106.1488	-64.94	-13.00	51.94	196	160	Vertical
333.8192	-68.45	-13.00	55.45	185	33	Vertical
1257.2515	-47.79	-13.00	34.79	174	178	Vertical
3703.0234	-47.28	-13.00	34.28	321	192	Vertical
7409.6470	-43.22	-13.00	30.22	262	64	Vertical
17996.4999	-34.57	-13.00	21.57	214	96	Vertical
39.7975	-63.71	-13.00	50.71	184	70	Horizontal
228.4234	-67.92	-13.00	54.92	189	261	Horizontal
1611.3223	-44.21	-13.00	31.21	321	200	Horizontal
3707.0236	-47.00	-13.00	34.00	258	102	Horizontal
7412.6471	-46.39	-13.00	33.39	219	166	Horizontal
16394.4465	-37.81	-13.00	24.81	154	102	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
48.7704	-70.17	-13.00	57.17	158	262	Vertical
110.1745	-64.92	-13.00	51.92	196	7	Vertical
1355.6711	-47.54	-13.00	34.54	213	210	Vertical
3758.5253	-47.16	-13.00	34.16	262	198	Vertical
7516.1505	-46.10	-13.00	33.10	254	7	Vertical
17996.9999	-34.42	-13.00	21.42	184	262	Vertical
44.8417	-63.40	-13.00	50.40	185	101	Horizontal
228.8599	-68.11	-13.00	55.11	196	261	Horizontal
2699.5399	-35.03	-13.00	22.03	232	135	Horizontal
3761.0254	-48.05	-13.00	35.05	231	101	Horizontal
5643.5881	-52.57	-13.00	39.57	258	165	Horizontal
16385.4462	-38.40	-13.00	25.40	274	133	Horizontal



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**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
45.7148	-70.95	-13.00	57.95	158	325	Vertical
118.3714	-64.43	-13.00	51.43	196	325	Vertical
1281.6563	-47.65	-13.00	34.65	213	315	Vertical
3817.0272	-48.29	-13.00	35.29	252	7	Vertical
7633.1544	-46.80	-13.00	33.80	284	198	Vertical
17994.9998	-34.50	-13.00	21.50	164	261	Vertical
42.0286	-63.74	-13.00	50.74	258	293	Horizontal
235.4078	-67.79	-13.00	54.79	174	198	Horizontal
1574.5149	-44.71	-13.00	31.71	196	74	Horizontal
3816.5272	-48.27	-13.00	35.27	321	7	Horizontal
7627.1542	-50.85	-13.00	37.85	262	166	Horizontal
16397.4466	-38.56	-13.00	25.56	254	134	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)	Height [cm]	Angle [°]	Polarization
65.4068	-69.21	-13.00	56.21	158	6	Vertical
109.3985	-64.61	-13.00	51.61	163	102	Vertical
1334.0668	-47.58	-13.00	34.58	232	31	Vertical
3423.5141	-44.22	-13.00	31.22	258	197	Vertical
6846.1282	-47.33	-13.00	34.33	274	6	Vertical
17997.4999	-34.46	-13.00	21.46	159	6	Vertical
45.1328	-64.32	-13.00	51.32	258	7	Horizontal
247.5819	-67.87	-13.00	54.87	174	70	Horizontal
1464.4929	-46.66	-13.00	33.66	196	210	Horizontal
3422.5141	-43.88	-13.00	30.88	321	229	Horizontal
9317.7106	-48.71	-13.00	35.71	252	7	Horizontal
16395.9465	-38.61	-13.00	25.61	165	70	Horizontal



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**7.2.1.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
48.6249	-70.54	-13.00	57.54	185	294	Vertical
109.0590	-64.09	-13.00	51.09	196	167	Vertical
2693.9388	-36.52	-13.00	23.52	231	232	Vertical
3463.0154	-46.03	-13.00	33.03	233	199	Vertical
6934.1311	-45.40	-13.00	32.40	248	1	Vertical
17914.9972	-34.50	-13.00	21.50	174	167	Vertical
37.2754	-63.84	-13.00	50.84	258	256	Horizontal
230.2180	-67.73	-13.00	54.73	174	0	Horizontal
2699.9400	-35.20	-13.00	22.20	196	34	Horizontal
3464.0155	-44.64	-13.00	31.64	231	224	Horizontal
6930.6310	-50.57	-13.00	37.57	251	356	Horizontal
16402.4467	-38.30	-13.00	25.30	161	0	Horizontal

**7.2.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.8835	-64.48	-13.00	51.48	258	102	Vertical
373.2517	-68.40	-13.00	55.40	196	198	Vertical
2701.9404	-36.48	-13.00	23.48	321	79	Vertical
3506.5169	-45.87	-13.00	32.87	262	198	Vertical
7006.6336	-44.99	-13.00	31.99	274	38	Vertical
17986.9996	-34.53	-13.00	21.53	158	70	Vertical
42.7561	-63.52	-13.00	50.52	147	6	Horizontal
233.0797	-67.87	-13.00	54.87	185	166	Horizontal
2691.9384	-35.12	-13.00	22.12	196	187	Horizontal
3507.0169	-45.45	-13.00	32.45	178	230	Horizontal
7010.6337	-49.47	-13.00	36.47	198	6	Horizontal
16394.4465	-38.19	-13.00	25.19	163	230	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)	Height [cm]	Angle [°]	Polarization
111.6781	-63.77	-13.00	50.77	196	293	Vertical
349.7765	-68.69	-13.00	55.69	185	102	Vertical
1674.5349	-52.71	-13.00	39.71	231	148	Vertical
4187.5396	-58.06	-13.00	45.06	322	6	Vertical
7976.6659	-52.27	-13.00	39.27	294	293	Vertical
17995.9999	-34.51	-13.00	21.51	184	261	Vertical
42.6106	-64.13	-13.00	51.13	184	134	Horizontal
224.4947	-67.07	-13.00	54.07	196	70	Horizontal
1674.1348	-51.70	-13.00	38.70	231	224	Horizontal
2697.1394	-54.74	-13.00	41.74	252	17	Horizontal
8853.6951	-51.06	-13.00	38.06	284	293	Horizontal
16384.9462	-38.64	-13.00	25.64	177	197	Horizontal

##### 7.3.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
109.6410	-65.10	-13.00	52.10	258	38	Vertical
293.9502	-69.92	-13.00	56.92	199	38	Vertical
1650.9302	-51.64	-13.00	38.64	231	153	Vertical
4960.5654	-55.79	-13.00	42.79	325	356	Vertical
10698.7566	-47.37	-13.00	34.37	148	70	Vertical
17999.5000	-34.22	-13.00	21.22	187	6	Vertical
44.8417	-64.21	-13.00	51.21	258	70	Horizontal
230.5575	-67.10	-13.00	54.10	174	229	Horizontal
1650.5301	-50.36	-13.00	37.36	196	80	Horizontal
3309.5103	-54.03	-13.00	41.03	231	70	Horizontal
9275.7092	-48.43	-13.00	35.43	262	293	Horizontal
16400.9467	-38.28	-13.00	25.28	254	166	Horizontal



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### 7.3.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Height [cm]	Angle [°]	Polarization
53.2812	-70.68	-13.00	57.68	174	7	Vertical
111.3386	-64.94	-13.00	51.94	185	102	Vertical
451.0011	-66.77	-13.00	53.77	196	134	Vertical
1691.3383	-51.96	-13.00	38.96	231	145	Vertical
5073.5691	-55.67	-13.00	42.67	252	7	Vertical
17999.0000	-33.88	-13.00	20.88	264	7	Vertical
43.0472	-63.73	-13.00	50.73	184	7	Horizontal
236.1353	-68.35	-13.00	55.35	196	39	Horizontal
1694.9390	-50.87	-13.00	37.87	212	115	Horizontal
2447.8896	-51.42	-13.00	38.42	261	4	Horizontal
7385.6462	-52.64	-13.00	39.64	184	39	Horizontal
16388.9463	-38.60	-13.00	25.60	213	7	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	Modulation	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	QPSK	9262	VL	TN	15.00	0.008096	±2.5	PASS
Band II	QPSK	9262	VN	TN	3.37	0.001821	±2.5	PASS
Band II	QPSK	9262	VH	TN	-9.47	-0.005113	±2.5	PASS
Band II	QPSK	9400	VL	TN	-9.67	-0.005144	±2.5	PASS
Band II	QPSK	9400	VN	TN	-5.25	-0.002791	±2.5	PASS
Band II	QPSK	9400	VH	TN	10.41	0.005536	±2.5	PASS
Band II	QPSK	9538	VL	TN	9.87	0.005174	±2.5	PASS
Band II	QPSK	9538	VN	TN	-4.83	-0.002531	±2.5	PASS
Band II	QPSK	9538	VH	TN	-7.73	-0.004053	±2.5	PASS
Band II	16QAM	9262	VL	TN	1.88	0.001015	±2.5	PASS
Band II	16QAM	9262	VN	TN	7.70	0.004159	±2.5	PASS
Band II	16QAM	9262	VH	TN	-13.74	-0.007419	±2.5	PASS
Band II	16QAM	9400	VL	TN	10.31	0.005483	±2.5	PASS
Band II	16QAM	9400	VN	TN	-6.53	-0.003473	±2.5	PASS
Band II	16QAM	9400	VH	TN	-12.53	-0.006663	±2.5	PASS
Band II	16QAM	9538	VL	TN	-12.83	-0.006728	±2.5	PASS
Band II	16QAM	9538	VN	TN	-5.65	-0.002961	±2.5	PASS
Band II	16QAM	9538	VH	TN	3.09	0.001618	±2.5	PASS
Band IV	QPSK	1312	VL	TN	12.81	0.007480	±2.5	PASS
Band IV	QPSK	1312	VN	TN	-10.04	-0.005865	±2.5	PASS
Band IV	QPSK	1312	VH	TN	14.00	0.008177	±2.5	PASS
Band IV	QPSK	1413	VL	TN	-1.22	-0.000703	±2.5	PASS
Band IV	QPSK	1413	VN	TN	-4.37	-0.002520	±2.5	PASS
Band IV	QPSK	1413	VH	TN	-6.61	-0.003813	±2.5	PASS
Band IV	QPSK	1513	VL	TN	0.10	0.000057	±2.5	PASS
Band IV	QPSK	1513	VN	TN	12.87	0.007341	±2.5	PASS
Band IV	QPSK	1513	VH	TN	11.48	0.006553	±2.5	PASS
Band IV	16QAM	1312	VL	TN	11.37	0.006641	±2.5	PASS
Band IV	16QAM	1312	VN	TN	1.03	0.000601	±2.5	PASS
Band IV	16QAM	1312	VH	TN	-12.43	-0.007256	±2.5	PASS
Band IV	16QAM	1413	VL	TN	-9.89	-0.005709	±2.5	PASS
Band IV	16QAM	1413	VN	TN	-5.64	-0.003253	±2.5	PASS



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Band IV	16QAM	1413	VH	TN	14.84	0.008565	±2.5	PASS
Band IV	16QAM	1513	VL	TN	-4.31	-0.002458	±2.5	PASS
Band IV	16QAM	1513	VN	TN	-9.80	-0.005594	±2.5	PASS
Band IV	16QAM	1513	VH	TN	4.62	0.002634	±2.5	PASS
Band V	QPSK	4132	VL	TN	6.63	0.008022	±2.5	PASS
Band V	QPSK	4132	VN	TN	-11.92	-0.014428	±2.5	PASS
Band V	QPSK	4132	VH	TN	1.79	0.002161	±2.5	PASS
Band V	QPSK	4182	VL	TN	-10.74	-0.012842	±2.5	PASS
Band V	QPSK	4182	VN	TN	13.05	0.015608	±2.5	PASS
Band V	QPSK	4182	VH	TN	-6.13	-0.007329	±2.5	PASS
Band V	QPSK	4233	VL	TN	6.11	0.007222	±2.5	PASS
Band V	QPSK	4233	VN	TN	-8.64	-0.010210	±2.5	PASS
Band V	QPSK	4233	VH	TN	-13.33	-0.015742	±2.5	PASS
Band V	16QAM	4132	VL	TN	-6.91	-0.008356	±2.5	PASS
Band V	16QAM	4132	VN	TN	-1.64	-0.001989	±2.5	PASS
Band V	16QAM	4132	VH	TN	-1.84	-0.002225	±2.5	PASS
Band V	16QAM	4182	VL	TN	-8.34	-0.009966	±2.5	PASS
Band V	16QAM	4182	VN	TN	-1.14	-0.001362	±2.5	PASS
Band V	16QAM	4182	VH	TN	4.16	0.004975	±2.5	PASS
Band V	16QAM	4233	VL	TN	-9.70	-0.011454	±2.5	PASS
Band V	16QAM	4233	VN	TN	-2.54	-0.003002	±2.5	PASS
Band V	16QAM	4233	VH	TN	9.03	0.010671	±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	2.09	0.001127	±2.5	PASS
Band II	QPSK	9262	VN	-20	2.56	0.001382	±2.5	PASS
Band II	QPSK	9262	VN	-10	13.36	0.007214	±2.5	PASS
Band II	QPSK	9262	VN	0	0.96	0.000519	±2.5	PASS
Band II	QPSK	9262	VN	10	-8.66	-0.004678	±2.5	PASS
Band II	QPSK	9262	VN	20	7.52	0.004059	±2.5	PASS
Band II	QPSK	9262	VN	30	3.95	0.002134	±2.5	PASS
Band II	QPSK	9262	VN	40	10.32	0.005571	±2.5	PASS
Band II	QPSK	9262	VN	50	8.36	0.004511	±2.5	PASS
Band II	QPSK	9400	VN	-30	1.83	0.000974	±2.5	PASS
Band II	QPSK	9400	VN	-20	9.43	0.005016	±2.5	PASS
Band II	QPSK	9400	VN	-10	0.26	0.000137	±2.5	PASS
Band II	QPSK	9400	VN	0	-8.06	-0.004287	±2.5	PASS



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Band II	QPSK	9400	VN	10	12.62	0.006712	±2.5	PASS
Band II	QPSK	9400	VN	20	2.59	0.001379	±2.5	PASS
Band II	QPSK	9400	VN	30	-8.18	-0.004350	±2.5	PASS
Band II	QPSK	9400	VN	40	-0.05	-0.000025	±2.5	PASS
Band II	QPSK	9400	VN	50	1.62	0.000859	±2.5	PASS
Band II	QPSK	9538	VN	-30	-1.38	-0.000723	±2.5	PASS
Band II	QPSK	9538	VN	-20	13.16	0.006900	±2.5	PASS
Band II	QPSK	9538	VN	-10	-2.04	-0.001070	±2.5	PASS
Band II	QPSK	9538	VN	0	-13.28	-0.006961	±2.5	PASS
Band II	QPSK	9538	VN	10	-10.79	-0.005656	±2.5	PASS
Band II	QPSK	9538	VN	20	-13.31	-0.006979	±2.5	PASS
Band II	QPSK	9538	VN	30	8.98	0.004710	±2.5	PASS
Band II	QPSK	9538	VN	40	-1.45	-0.000758	±2.5	PASS
Band II	QPSK	9538	VN	50	-0.56	-0.000294	±2.5	PASS
Band II	16QAM	9262	VN	-30	-1.09	-0.000586	±2.5	PASS
Band II	16QAM	9262	VN	-20	9.18	0.004958	±2.5	PASS
Band II	16QAM	9262	VN	-10	4.23	0.002282	±2.5	PASS
Band II	16QAM	9262	VN	0	-12.48	-0.006735	±2.5	PASS
Band II	16QAM	9262	VN	10	-12.42	-0.006705	±2.5	PASS
Band II	16QAM	9262	VN	20	2.19	0.001182	±2.5	PASS
Band II	16QAM	9262	VN	30	-10.64	-0.005745	±2.5	PASS
Band II	16QAM	9262	VN	40	-14.94	-0.008067	±2.5	PASS
Band II	16QAM	9262	VN	50	4.85	0.002618	±2.5	PASS
Band II	16QAM	9400	VN	-30	13.85	0.007369	±2.5	PASS
Band II	16QAM	9400	VN	-20	1.77	0.000942	±2.5	PASS
Band II	16QAM	9400	VN	-10	-11.17	-0.005941	±2.5	PASS
Band II	16QAM	9400	VN	0	-10.56	-0.005615	±2.5	PASS
Band II	16QAM	9400	VN	10	-10.75	-0.005719	±2.5	PASS
Band II	16QAM	9400	VN	20	-3.35	-0.001780	±2.5	PASS
Band II	16QAM	9400	VN	30	-2.88	-0.001533	±2.5	PASS
Band II	16QAM	9400	VN	40	11.64	0.006194	±2.5	PASS
Band II	16QAM	9400	VN	50	6.45	0.003431	±2.5	PASS
Band II	16QAM	9538	VN	-30	-13.23	-0.006934	±2.5	PASS
Band II	16QAM	9538	VN	-20	8.54	0.004478	±2.5	PASS
Band II	16QAM	9538	VN	-10	-0.70	-0.000369	±2.5	PASS
Band II	16QAM	9538	VN	0	-5.48	-0.002874	±2.5	PASS
Band II	16QAM	9538	VN	10	2.90	0.001520	±2.5	PASS
Band II	16QAM	9538	VN	20	-12.51	-0.006556	±2.5	PASS



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Band II	16QAM	9538	VN	30	-7.24	-0.003798	±2.5	PASS
Band II	16QAM	9538	VN	40	14.33	0.007512	±2.5	PASS
Band II	16QAM	9538	VN	50	11.37	0.005962	±2.5	PASS
Band IV	QPSK	1312	VN	-30	12.15	0.007094	±2.5	PASS
Band IV	QPSK	1312	VN	-20	4.03	0.002352	±2.5	PASS
Band IV	QPSK	1312	VN	-10	4.75	0.002772	±2.5	PASS
Band IV	QPSK	1312	VN	0	6.27	0.003664	±2.5	PASS
Band IV	QPSK	1312	VN	10	10.91	0.006370	±2.5	PASS
Band IV	QPSK	1312	VN	20	-13.35	-0.007793	±2.5	PASS
Band IV	QPSK	1312	VN	30	1.55	0.000906	±2.5	PASS
Band IV	QPSK	1312	VN	40	0.91	0.000530	±2.5	PASS
Band IV	QPSK	1312	VN	50	7.25	0.004231	±2.5	PASS
Band IV	QPSK	1413	VN	-30	-8.24	-0.004756	±2.5	PASS
Band IV	QPSK	1413	VN	-20	1.09	0.000631	±2.5	PASS
Band IV	QPSK	1413	VN	-10	-1.25	-0.000720	±2.5	PASS
Band IV	QPSK	1413	VN	0	4.37	0.002525	±2.5	PASS
Band IV	QPSK	1413	VN	10	-5.66	-0.003269	±2.5	PASS
Band IV	QPSK	1413	VN	20	5.09	0.002937	±2.5	PASS
Band IV	QPSK	1413	VN	30	-6.10	-0.003521	±2.5	PASS
Band IV	QPSK	1413	VN	40	7.83	0.004519	±2.5	PASS
Band IV	QPSK	1413	VN	50	-2.75	-0.001589	±2.5	PASS
Band IV	QPSK	1513	VN	-30	8.82	0.005033	±2.5	PASS
Band IV	QPSK	1513	VN	-20	-1.17	-0.000670	±2.5	PASS
Band IV	QPSK	1513	VN	-10	13.09	0.007471	±2.5	PASS
Band IV	QPSK	1513	VN	0	0.55	0.000313	±2.5	PASS
Band IV	QPSK	1513	VN	10	-8.91	-0.005084	±2.5	PASS
Band IV	QPSK	1513	VN	20	4.93	0.002815	±2.5	PASS
Band IV	QPSK	1513	VN	30	4.07	0.002322	±2.5	PASS
Band IV	QPSK	1513	VN	40	-7.45	-0.004249	±2.5	PASS
Band IV	QPSK	1513	VN	50	-4.78	-0.002728	±2.5	PASS
Band IV	16QAM	1312	VN	-30	5.07	0.002960	±2.5	PASS
Band IV	16QAM	1312	VN	-20	2.54	0.001481	±2.5	PASS
Band IV	16QAM	1312	VN	-10	7.87	0.004595	±2.5	PASS
Band IV	16QAM	1312	VN	0	4.54	0.002654	±2.5	PASS
Band IV	16QAM	1312	VN	10	7.74	0.004518	±2.5	PASS
Band IV	16QAM	1312	VN	20	11.99	0.007003	±2.5	PASS
Band IV	16QAM	1312	VN	30	12.40	0.007241	±2.5	PASS
Band IV	16QAM	1312	VN	40	6.65	0.003886	±2.5	PASS



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Band IV	16QAM	1312	VN	50	-5.99	-0.003496	±2.5	PASS
Band IV	16QAM	1413	VN	-30	-12.37	-0.007139	±2.5	PASS
Band IV	16QAM	1413	VN	-20	9.66	0.005575	±2.5	PASS
Band IV	16QAM	1413	VN	-10	-3.35	-0.001931	±2.5	PASS
Band IV	16QAM	1413	VN	0	-8.57	-0.004947	±2.5	PASS
Band IV	16QAM	1413	VN	10	13.72	0.007917	±2.5	PASS
Band IV	16QAM	1413	VN	20	0.23	0.000134	±2.5	PASS
Band IV	16QAM	1413	VN	30	7.58	0.004377	±2.5	PASS
Band IV	16QAM	1413	VN	40	-7.73	-0.004459	±2.5	PASS
Band IV	16QAM	1413	VN	50	4.74	0.002735	±2.5	PASS
Band IV	16QAM	1513	VN	-30	3.89	0.002222	±2.5	PASS
Band IV	16QAM	1513	VN	-20	-12.97	-0.007399	±2.5	PASS
Band IV	16QAM	1513	VN	-10	1.88	0.001070	±2.5	PASS
Band IV	16QAM	1513	VN	0	7.61	0.004344	±2.5	PASS
Band IV	16QAM	1513	VN	10	-1.32	-0.000755	±2.5	PASS
Band IV	16QAM	1513	VN	20	-1.46	-0.000834	±2.5	PASS
Band IV	16QAM	1513	VN	30	-10.84	-0.006185	±2.5	PASS
Band IV	16QAM	1513	VN	40	6.29	0.003587	±2.5	PASS
Band IV	16QAM	1513	VN	50	-8.34	-0.004756	±2.5	PASS
Band V	QPSK	4132	VN	-30	0.32	0.000391	±2.5	PASS
Band V	QPSK	4132	VN	-20	1.79	0.002161	±2.5	PASS
Band V	QPSK	4132	VN	-10	-1.37	-0.001653	±2.5	PASS
Band V	QPSK	4132	VN	0	-10.63	-0.012864	±2.5	PASS
Band V	QPSK	4132	VN	10	1.49	0.001803	±2.5	PASS
Band V	QPSK	4132	VN	20	1.00	0.001209	±2.5	PASS
Band V	QPSK	4132	VN	30	11.00	0.013315	±2.5	PASS
Band V	QPSK	4132	VN	40	2.91	0.003527	±2.5	PASS
Band V	QPSK	4132	VN	50	12.63	0.015281	±2.5	PASS
Band V	QPSK	4182	VN	-30	8.11	0.009692	±2.5	PASS
Band V	QPSK	4182	VN	-20	-6.06	-0.007248	±2.5	PASS
Band V	QPSK	4182	VN	-10	1.42	0.001700	±2.5	PASS
Band V	QPSK	4182	VN	0	6.78	0.008111	±2.5	PASS
Band V	QPSK	4182	VN	10	0.04	0.000054	±2.5	PASS
Band V	QPSK	4182	VN	20	2.32	0.002772	±2.5	PASS
Band V	QPSK	4182	VN	30	-3.23	-0.003867	±2.5	PASS
Band V	QPSK	4182	VN	40	6.11	0.007310	±2.5	PASS
Band V	QPSK	4182	VN	50	-10.47	-0.012521	±2.5	PASS
Band V	QPSK	4233	VN	-30	7.29	0.008614	±2.5	PASS



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Band V	QPSK	4233	VN	-20	-12.42	-0.014667	±2.5	PASS
Band V	QPSK	4233	VN	-10	4.44	0.005250	±2.5	PASS
Band V	QPSK	4233	VN	0	-8.56	-0.010109	±2.5	PASS
Band V	QPSK	4233	VN	10	2.25	0.002654	±2.5	PASS
Band V	QPSK	4233	VN	20	0.89	0.001048	±2.5	PASS
Band V	QPSK	4233	VN	30	-9.92	-0.011714	±2.5	PASS
Band V	QPSK	4233	VN	40	-7.17	-0.008469	±2.5	PASS
Band V	QPSK	4233	VN	50	11.37	0.013431	±2.5	PASS
Band V	16QAM	4132	VN	-30	-8.97	-0.010850	±2.5	PASS
Band V	16QAM	4132	VN	-20	-11.43	-0.013832	±2.5	PASS
Band V	16QAM	4132	VN	-10	-4.49	-0.005436	±2.5	PASS
Band V	16QAM	4132	VN	0	-12.48	-0.015102	±2.5	PASS
Band V	16QAM	4132	VN	10	-6.51	-0.007876	±2.5	PASS
Band V	16QAM	4132	VN	20	4.84	0.005862	±2.5	PASS
Band V	16QAM	4132	VN	30	3.11	0.003763	±2.5	PASS
Band V	16QAM	4132	VN	40	6.00	0.007265	±2.5	PASS
Band V	16QAM	4132	VN	50	12.77	0.015449	±2.5	PASS
Band V	16QAM	4182	VN	-30	3.92	0.004685	±2.5	PASS
Band V	16QAM	4182	VN	-20	-1.67	-0.001993	±2.5	PASS
Band V	16QAM	4182	VN	-10	-5.20	-0.006219	±2.5	PASS
Band V	16QAM	4182	VN	0	-9.46	-0.011314	±2.5	PASS
Band V	16QAM	4182	VN	10	7.74	0.009251	±2.5	PASS
Band V	16QAM	4182	VN	20	4.88	0.005838	±2.5	PASS
Band V	16QAM	4182	VN	30	-7.01	-0.008378	±2.5	PASS
Band V	16QAM	4182	VN	40	-5.42	-0.006477	±2.5	PASS
Band V	16QAM	4182	VN	50	2.80	0.003343	±2.5	PASS
Band V	16QAM	4233	VN	-30	-6.02	-0.007111	±2.5	PASS
Band V	16QAM	4233	VN	-20	12.05	0.014236	±2.5	PASS
Band V	16QAM	4233	VN	-10	-13.34	-0.015757	±2.5	PASS
Band V	16QAM	4233	VN	0	14.02	0.016564	±2.5	PASS
Band V	16QAM	4233	VN	10	-2.37	-0.002803	±2.5	PASS
Band V	16QAM	4233	VN	20	4.33	0.005111	±2.5	PASS
Band V	16QAM	4233	VN	30	5.50	0.006496	±2.5	PASS
Band V	16QAM	4233	VN	40	-9.30	-0.010990	±2.5	PASS
Band V	16QAM	4233	VN	50	14.47	0.017096	±2.5	PASS

The End



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