



Appendix B

WCDMA BAND II & IV & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result for Down Antenna

BAND	Channel	Conducted Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	23.51	24.87	33.00	PASS
Band II	9400	23.45	24.81	33.00	PASS
Band II	9538	23.38	24.74	33.00	PASS
Band IV	1312	23.68	24.93	30.00	PASS
Band IV	1413	23.69	24.94	30.00	PASS
Band IV	1513	23.46	24.71	30.00	PASS

BAND	Channel	Conducted Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.83	15.57	38.45	PASS
Band V	4182	23.79	15.53	38.45	PASS
Band V	4233	23.86	15.60	38.45	PASS

1.2. Test Result for Up Antenna

BAND	Channel	Conducted Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	22.59	20.97	33.00	PASS
Band II	9400	22.67	21.05	33.00	PASS
Band II	9538	22.78	21.16	33.00	PASS
Band IV	1312	22.32	21.08	30.00	PASS
Band IV	1413	22.38	21.14	30.00	PASS
Band IV	1513	22.44	21.20	30.00	PASS

BAND	Channel	Conducted Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.54	15.01	38.45	PASS
Band V	4182	23.68	15.15	38.45	PASS
Band V	4233	23.55	15.02	38.45	PASS

Remark:

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

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

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



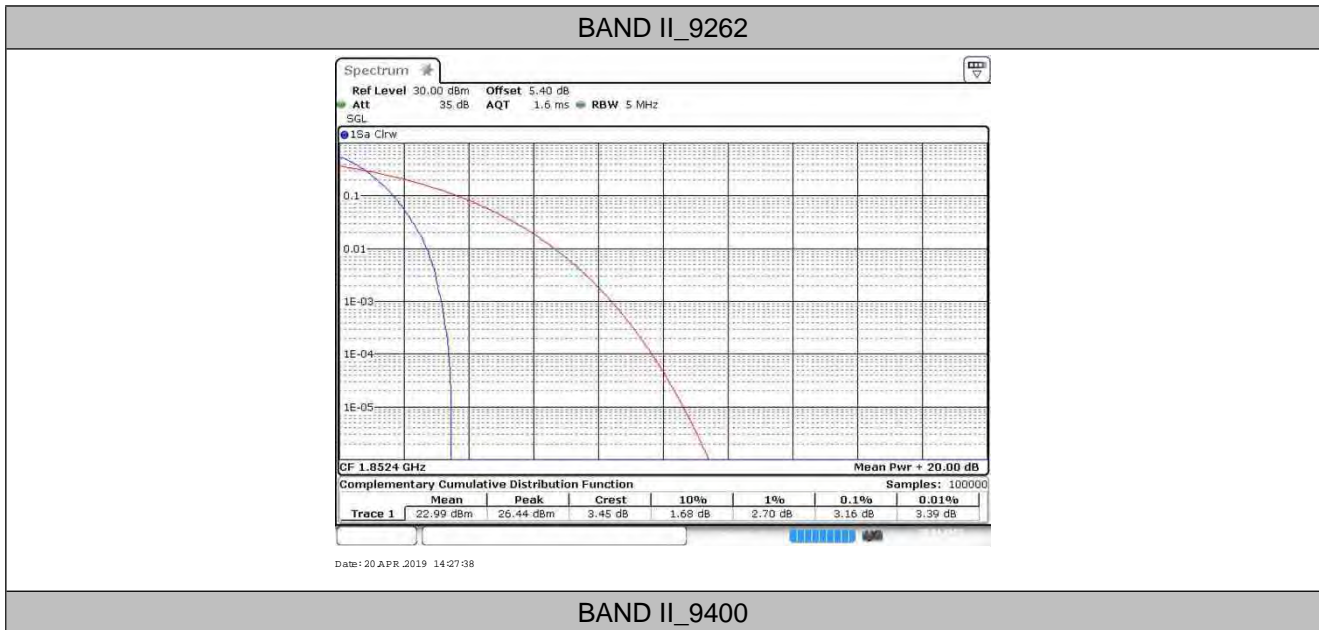
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

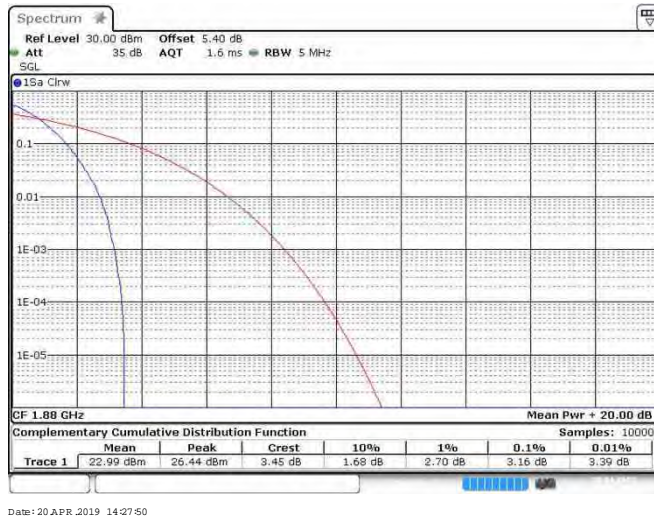
BAND	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.16	13	PASS
Band II	9400	3.16	13	PASS
Band II	9538	3.16	13	PASS
Band IV	1312	3.25	13	PASS
Band IV	1413	3.25	13	PASS
Band IV	1513	3.16	13	PASS
Band V	4132	3.19	13	PASS
Band V	4182	5.83	13	PASS
Band V	4233	3.30	13	PASS

2.2. Test Plots



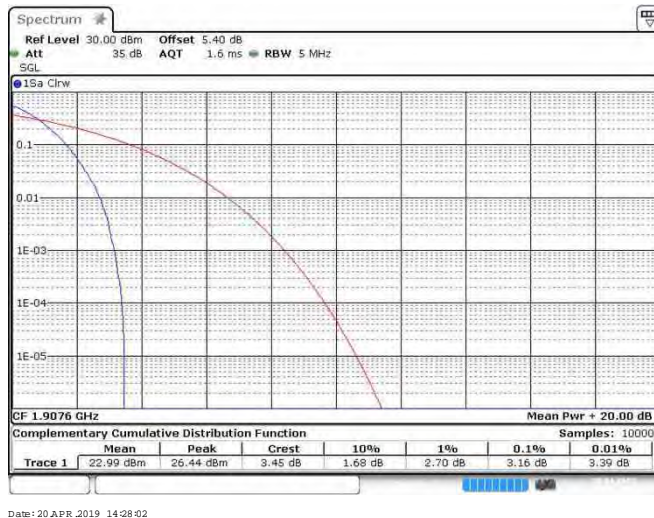
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BAND II_9538

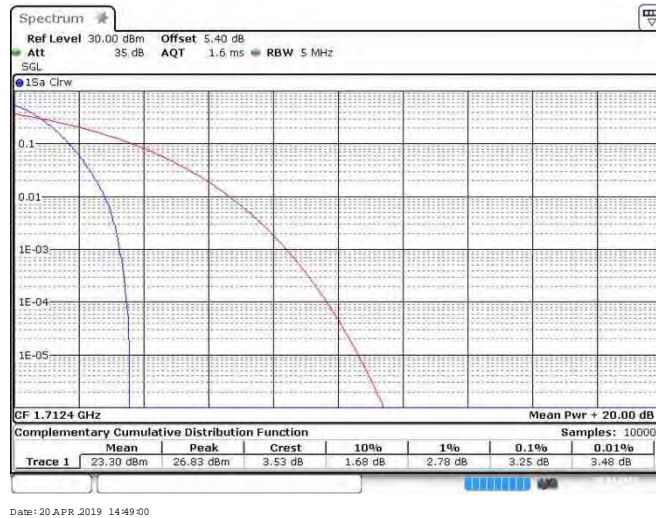


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BAND IV_1312

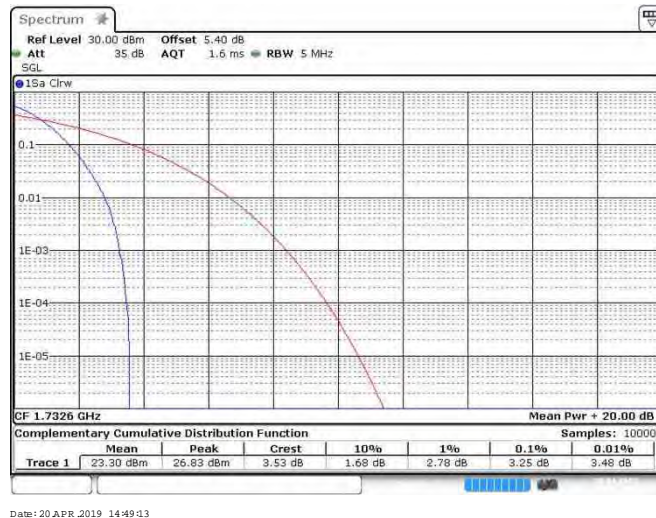


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BAND IV_1413

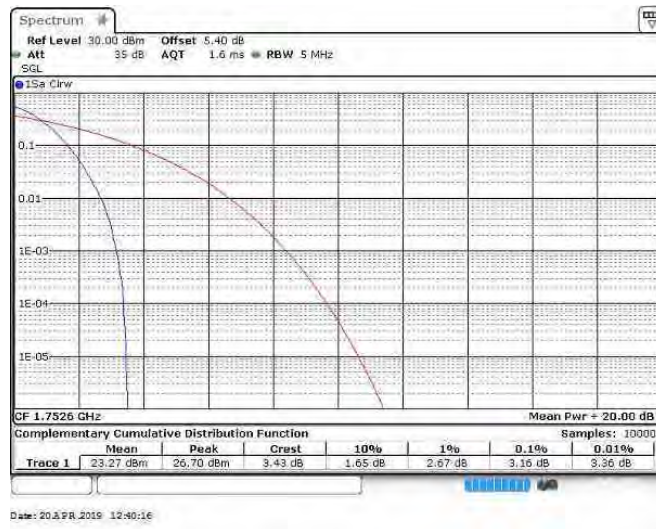


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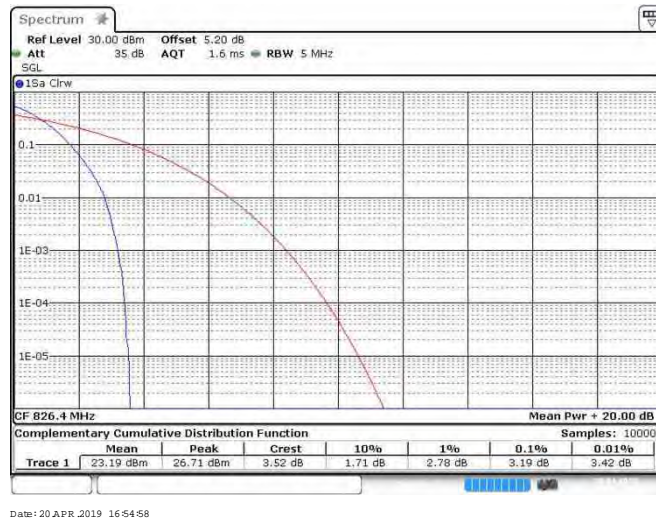
BAND IV_1513



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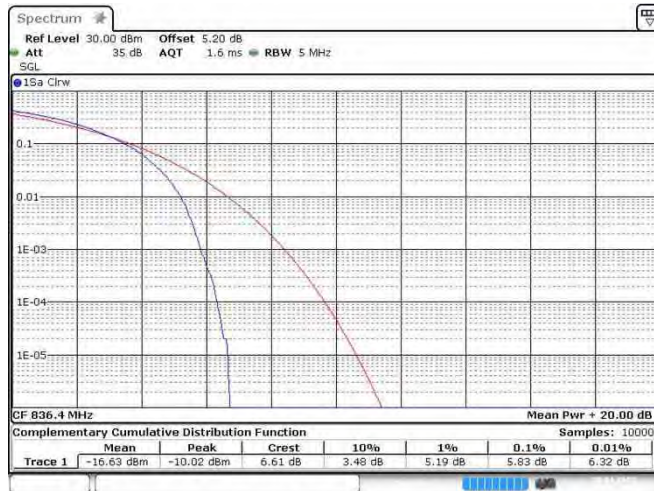
BAND V_4132



BAND V_4182



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BAND V_4233



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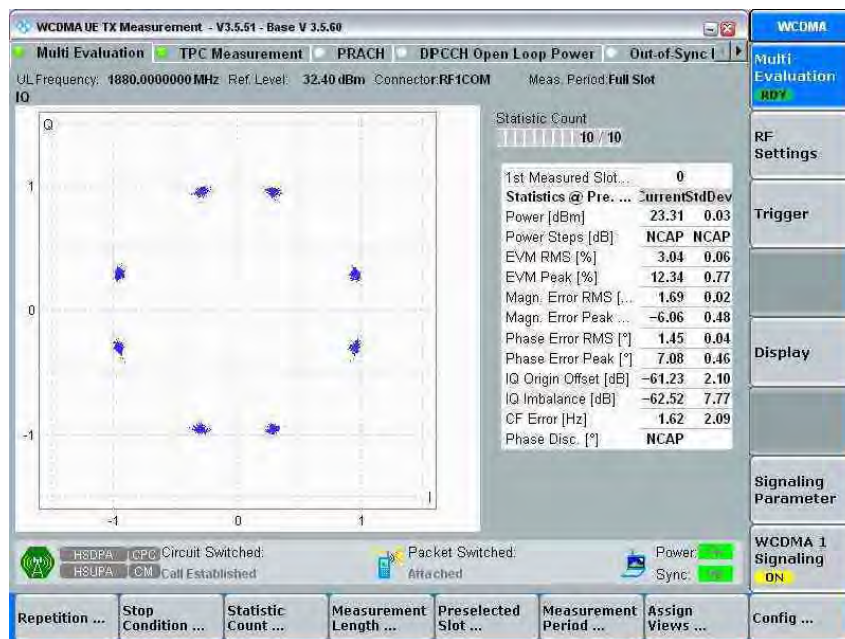
3. Modulation Characteristics

3.1. Test BAND = LTE Band 2

3.2. Test BAND = WCDMA BAND II

3.2.1. Test Mode = UMTS/TM1

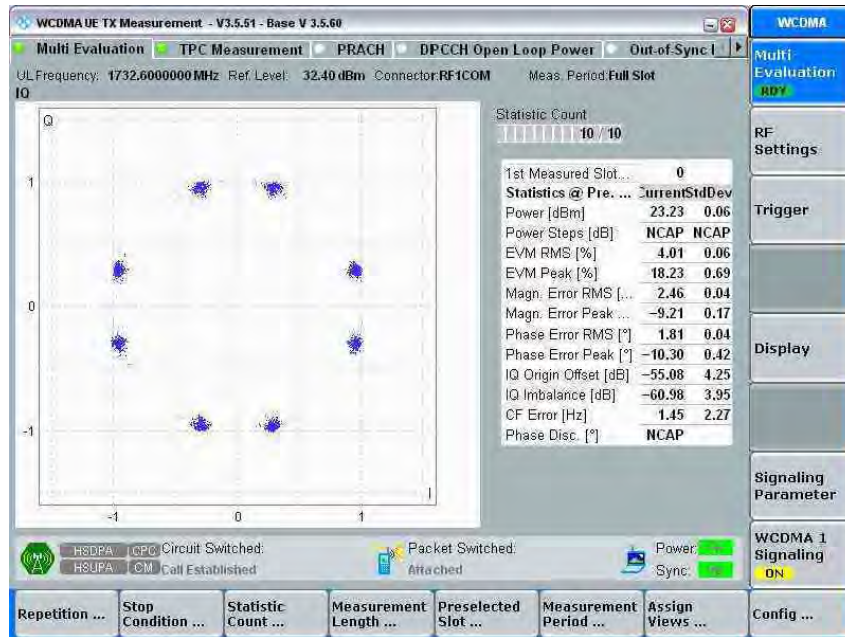
3.2.1.1. Test Channel = MCH



3.3. Test BAND = WCDMA BAND IV

3.3.1. Test Mode = UMTS/TM1

3.3.1.1. Test Channel = MCH

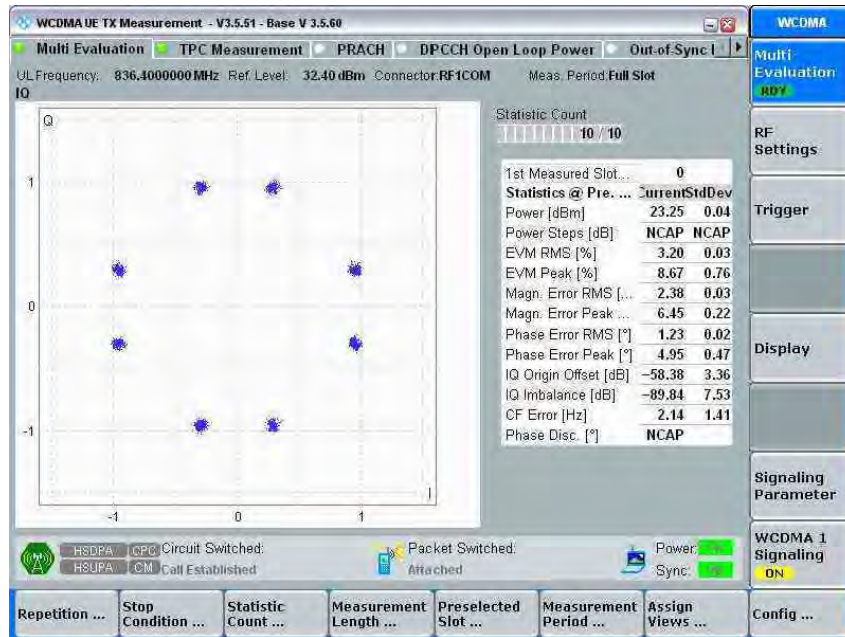


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3.4. Test BAND = WCDMA BAND V

3.4.1. Test Mode = UMTS/TM1

3.4.1.1. Test Channel = MCH



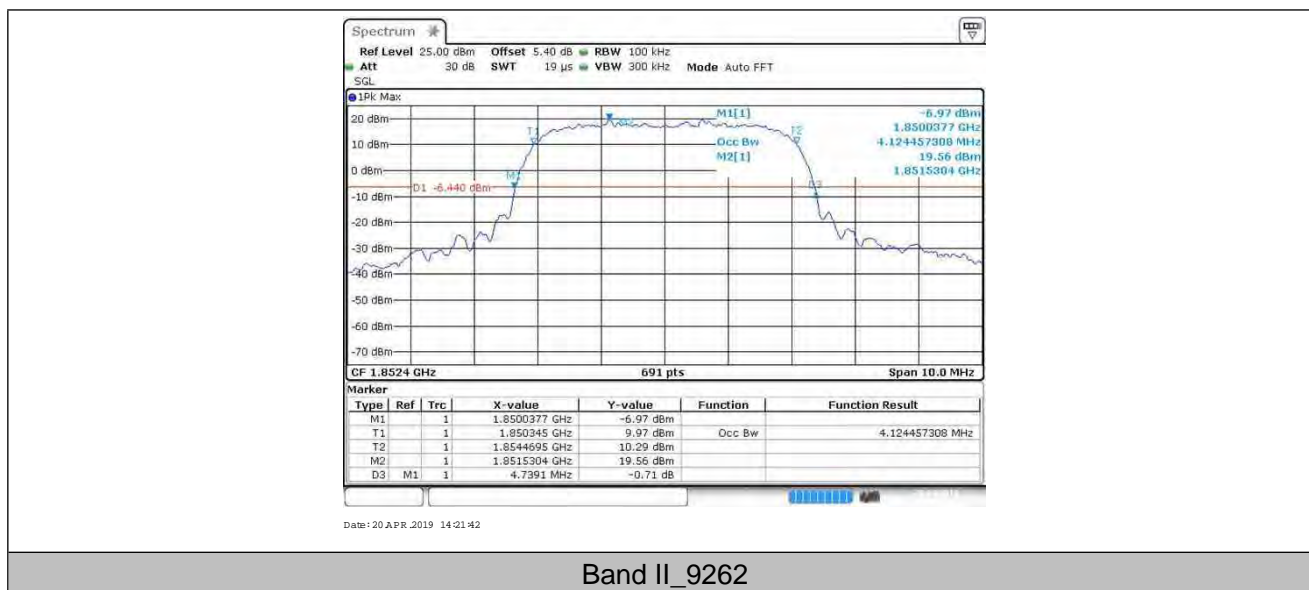
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

BAND	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4124.5	4739	---	PASS
Band II	9400	4124.5	4725	---	PASS
Band II	9538	4124.5	4739	---	PASS
Band IV	1312	4110.0	4710	---	PASS
Band IV	1413	4124.5	4725	---	PASS
Band IV	1513	4124.5	4725	---	PASS
Band V	4132	4110.0	4725	---	PASS
Band V	4182	4124.5	4725	---	PASS
Band V	4233	4124.5	4725	---	PASS

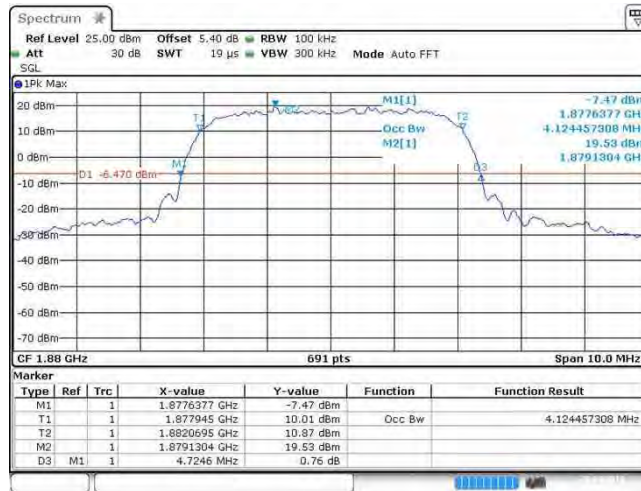
4.2. Test Plots



Band II_9262

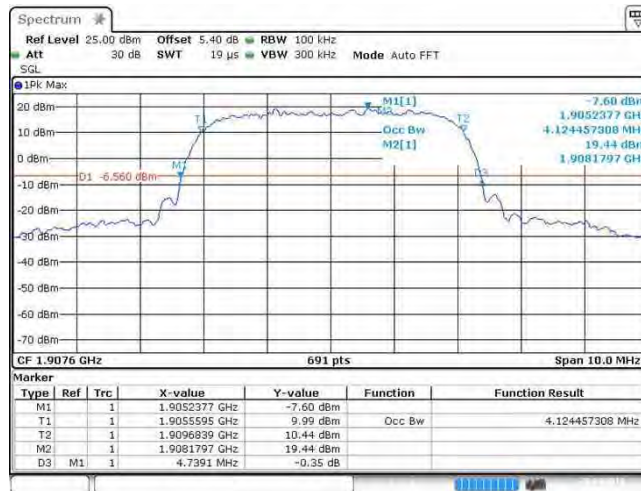


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Band II_9400

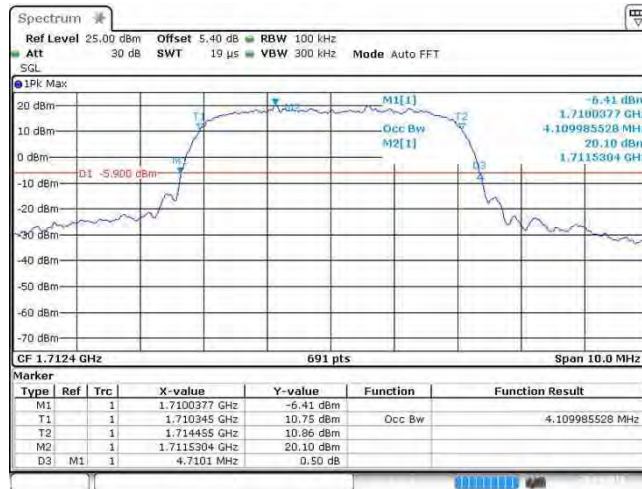


Date: 20 APR. 2019 14:22:31

Band II_9538

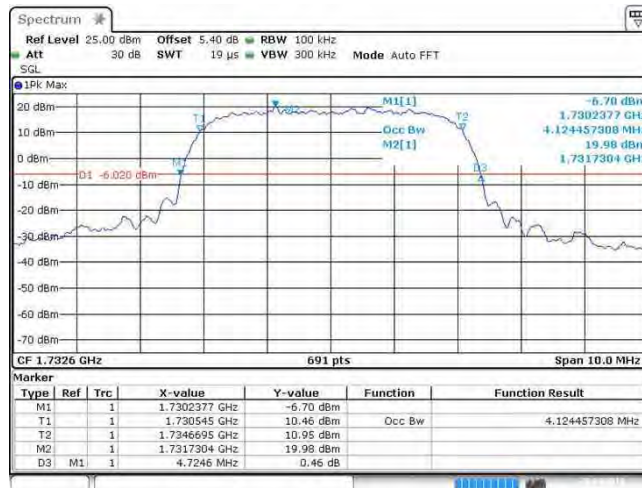


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Date: 20 APR. 2019 14:43:13

Band IV_1312



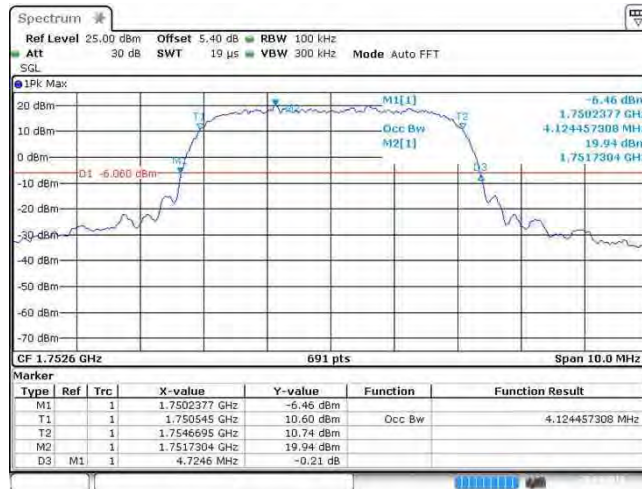
Date: 20 APR. 2019 14:43:38

Band IV_1413



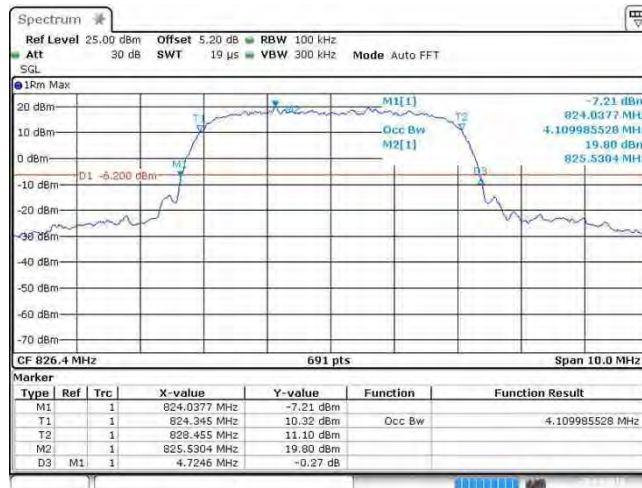
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Date: 20 APR. 2019 14:44:02

Band IV_1513



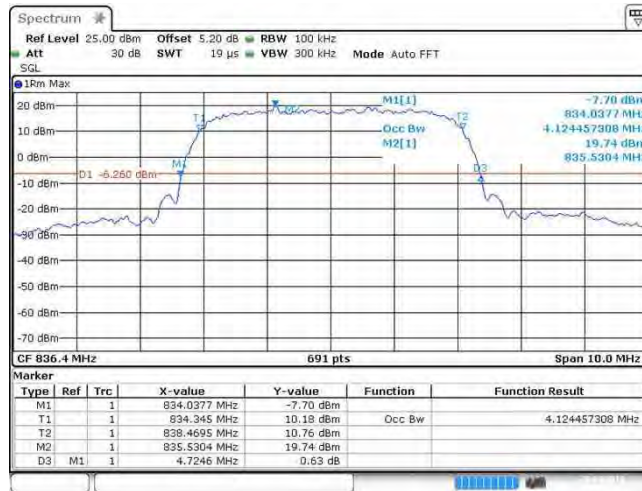
Date: 20 APR. 2019 16:50:06

Band V_4132



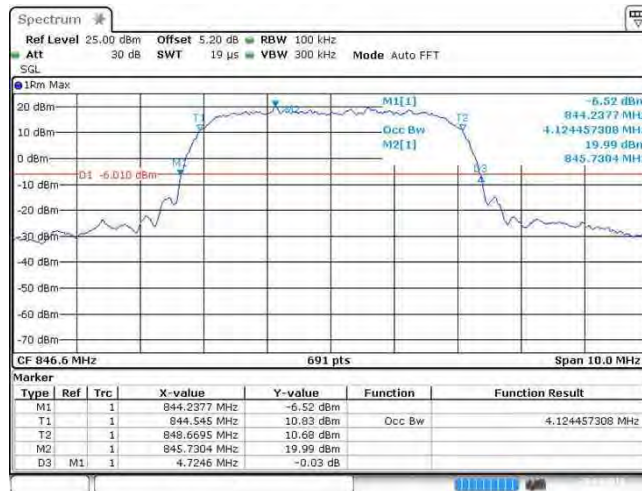
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Date: 20 APR. 2019 16:50:30

Band V_4182



Date: 20 APR. 2019 16:50:55

Band V_4233

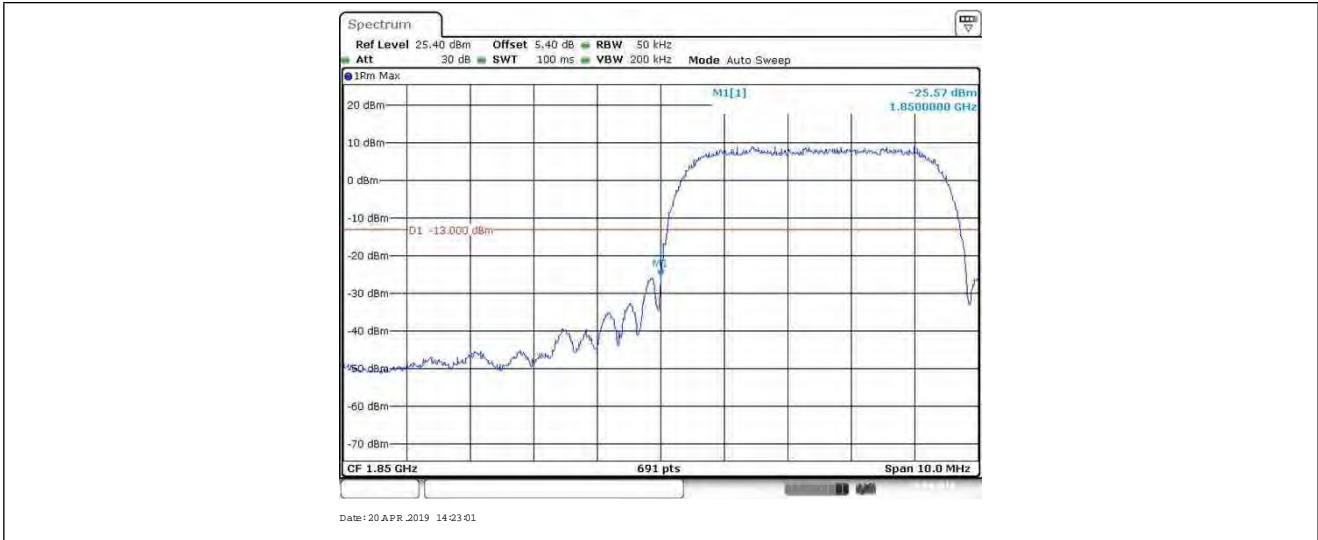


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5. Band Edge Compliance

5.1. Test Plots



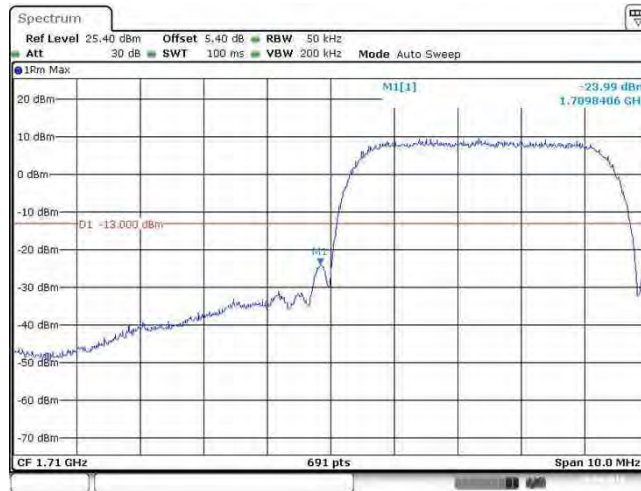
Band II_9262



Band II_9538



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Date: 20 APR. 2019 14:48:16

Band IV_1312

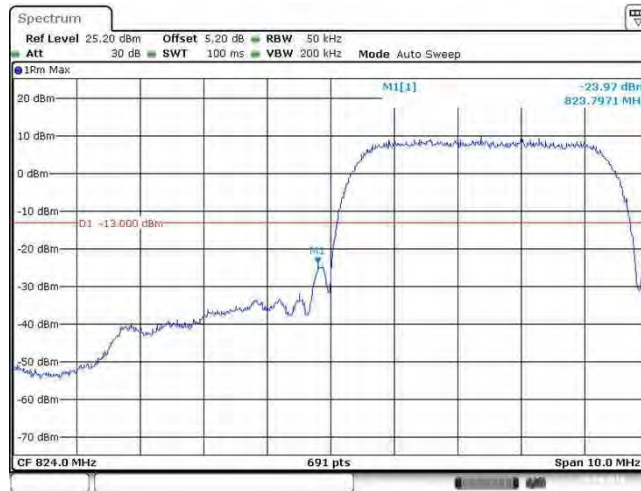


Date: 20 APR. 2019 14:48:34

Band IV_1513



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Band V_4132



Date: 20 APR. 2019 16:51:44

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 = $k * (\text{Span} / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

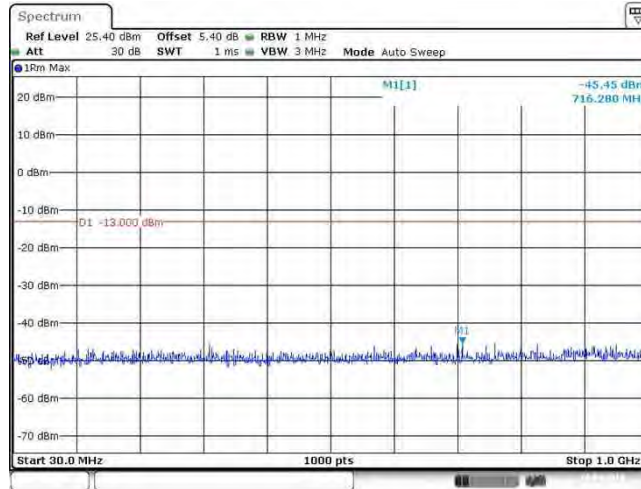
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

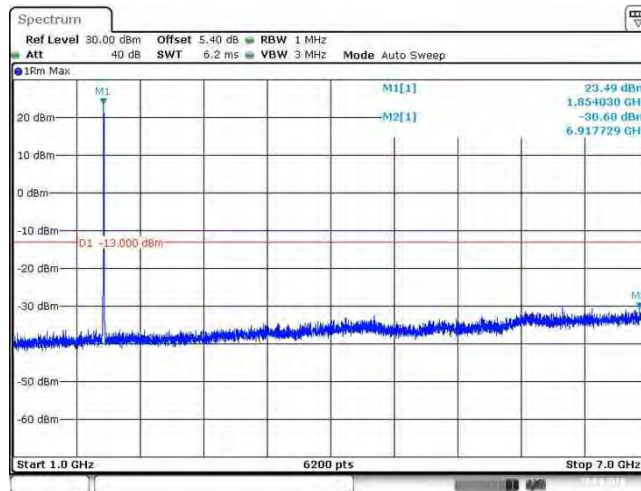


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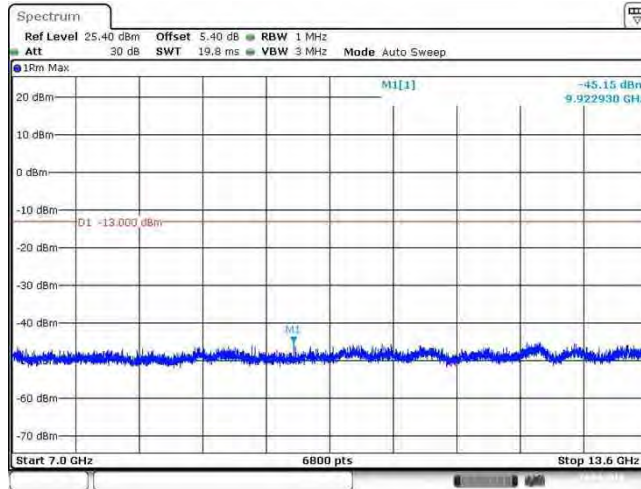
Band II_9262



Band II_9262

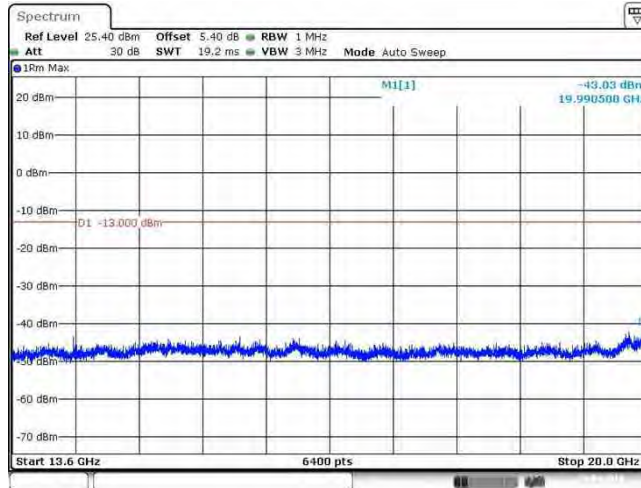


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Date: 20 APR. 2019 14:24:30

Band II_9262

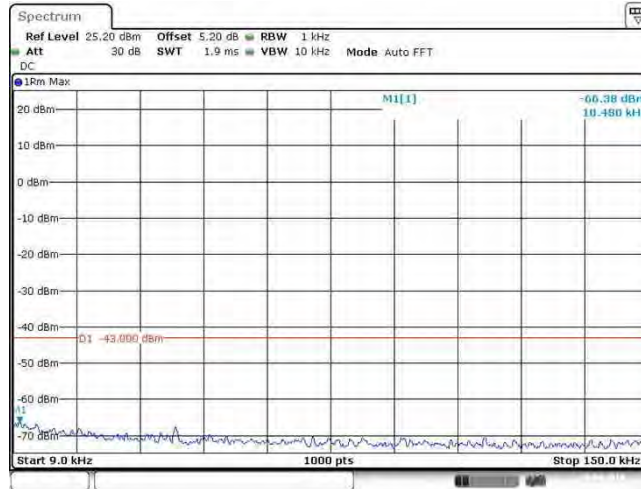


Date: 20 APR. 2019 14:24:41

Band II_9262

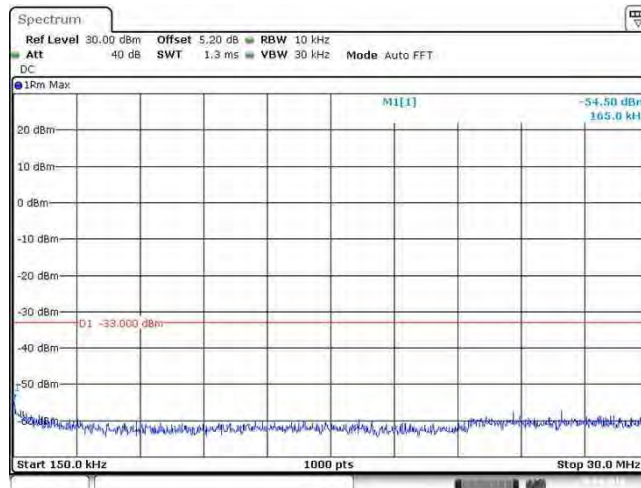


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Date: 20 APR. 2019 14:24:54

Band II_9400

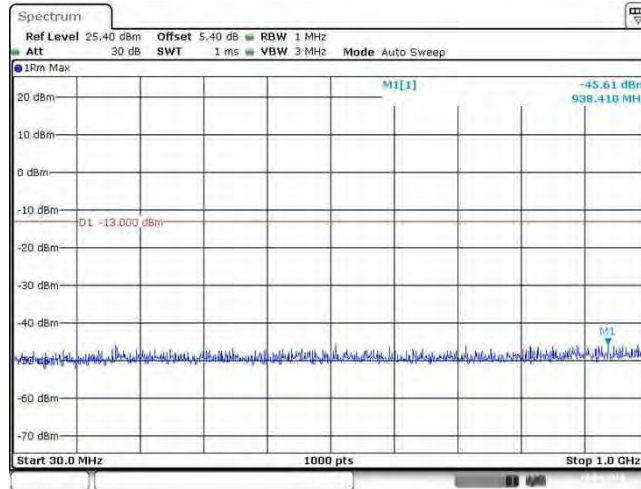


Date: 20 APR. 2019 14:25:18

Band II_9400

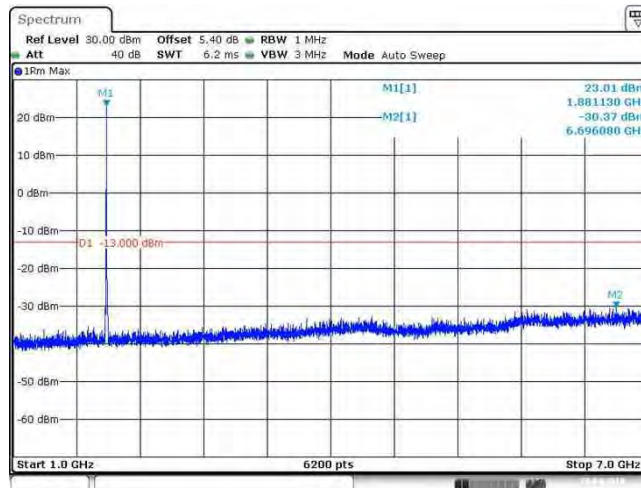


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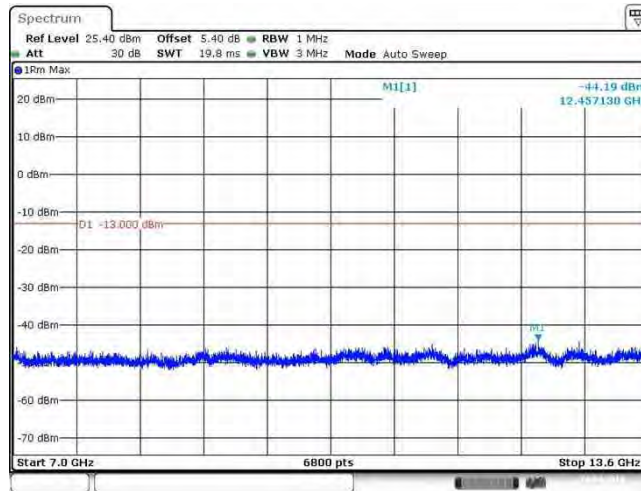
Date: 20 APR. 2019 14:25:41

Band II_9400



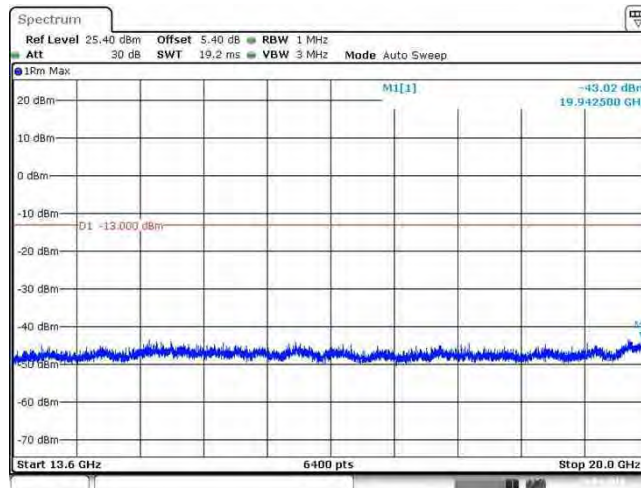
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Date: 20 APR. 2019 14:25:52

Band II_9400

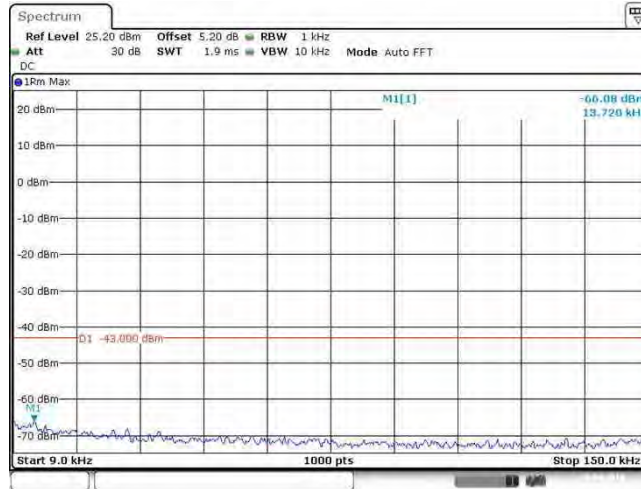


Date: 20 APR. 2019 14:26:03

Band II_9400

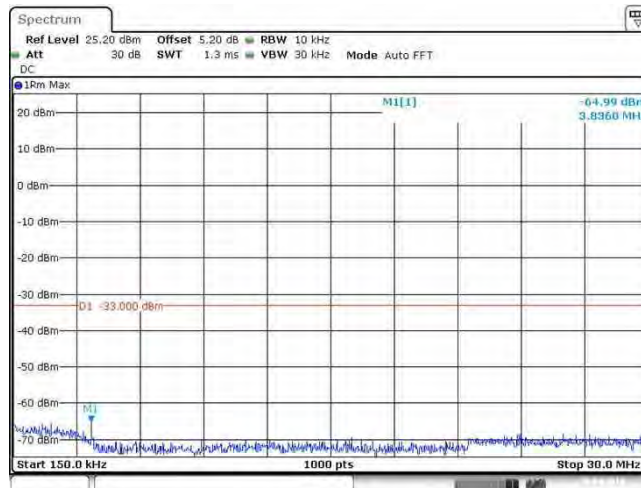


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Date: 20 APR. 2019 14:26:17

Band II_9538

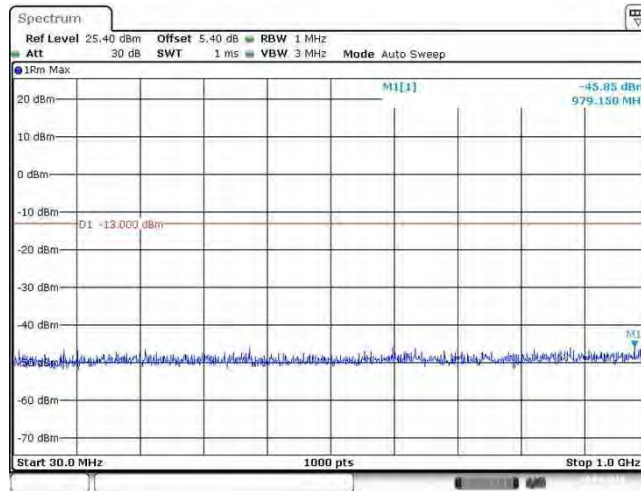


Date: 20 APR. 2019 14:26:27

Band II_9538

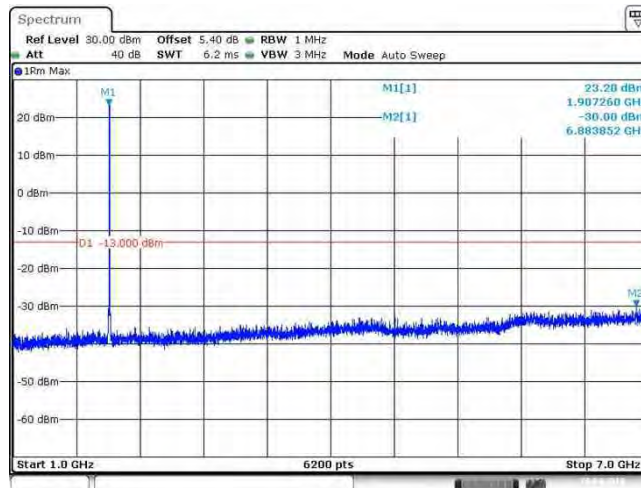


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Date: 20 APR. 2019 14:26:38

Band II_9538

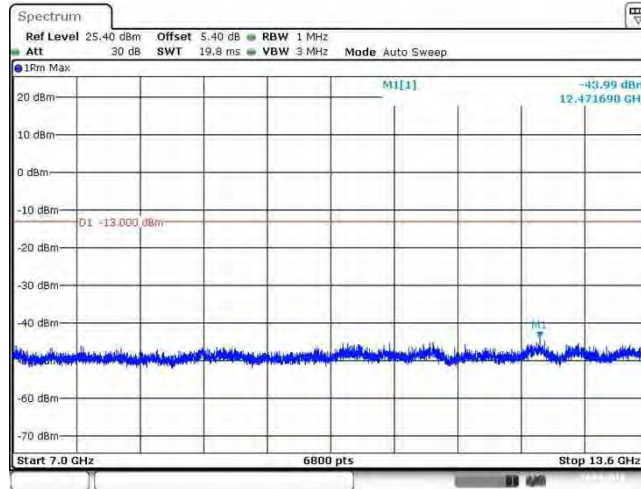


Date: 20 APR. 2019 14:26:51

Band II_9538

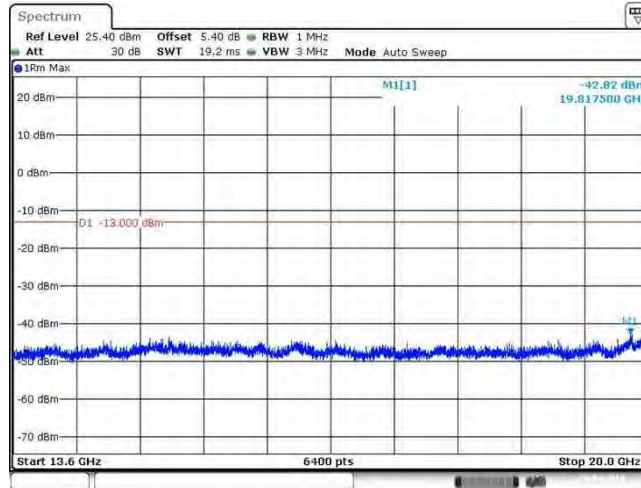


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Date: 20 APR. 2019 14:27:01

Band II_9538

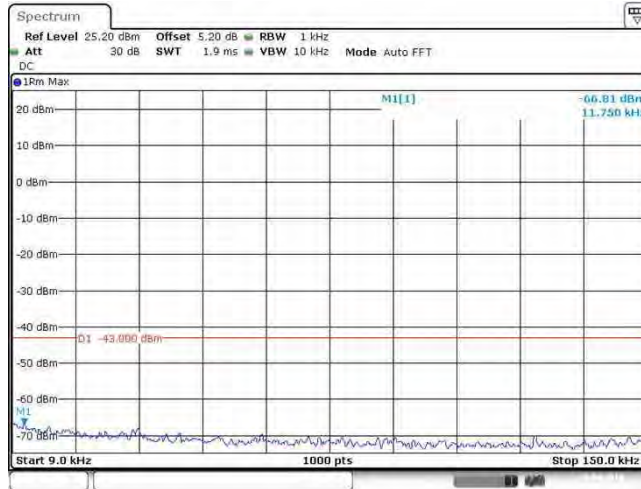


Date: 20 APR. 2019 14:27:12

Band II_9538

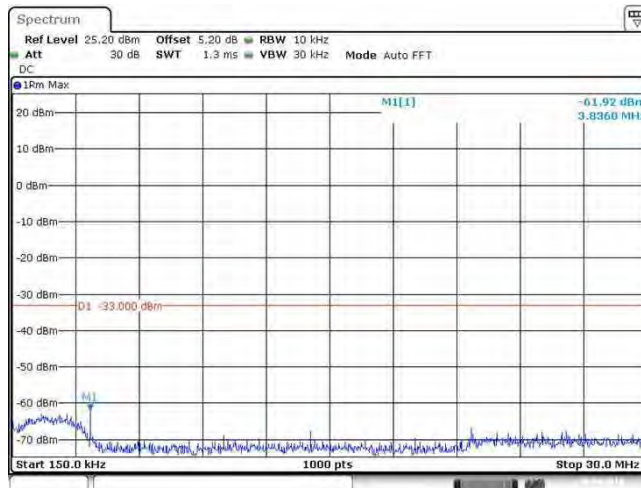


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Date: 20 APR. 2019 14:44:30

Band IV_1312

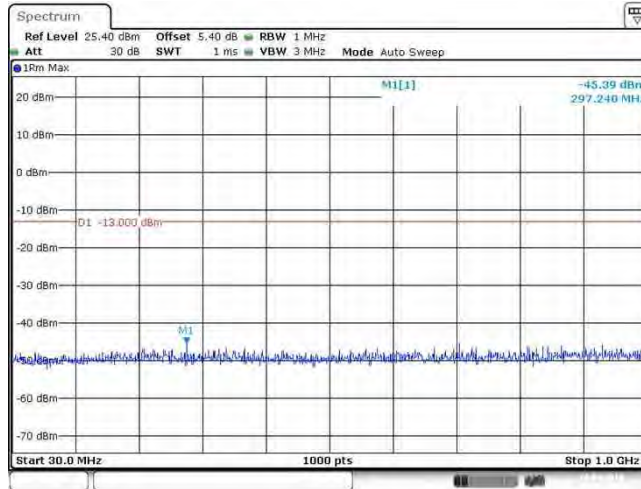


Date: 20 APR. 2019 14:44:41

Band IV_1312

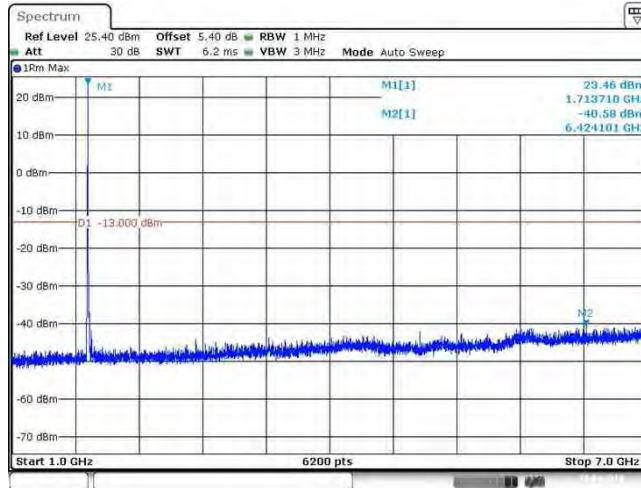


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Date: 20 APR. 2019 14:44:52

Band IV_1312

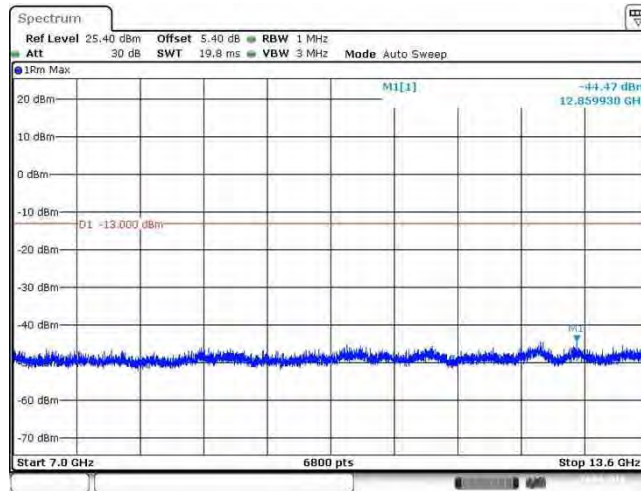


Date: 20 APR. 2019 14:45:04

Band IV_1312

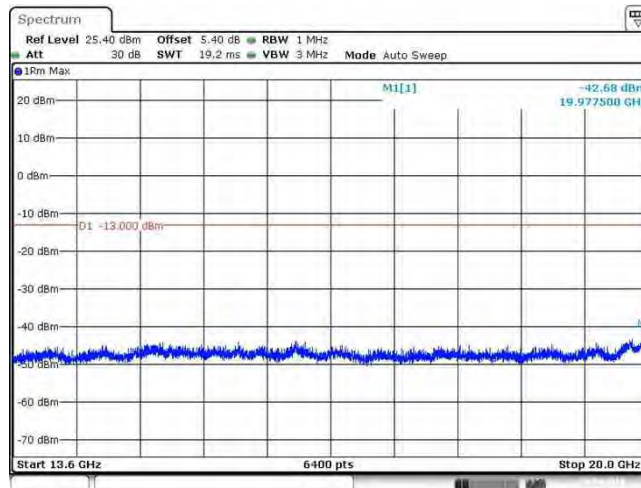


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Date: 20 APR. 2019 14:45:15

Band IV_1312

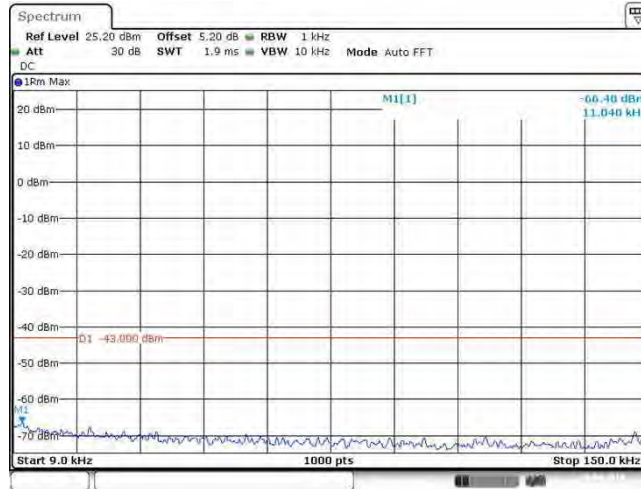


Date: 20 APR. 2019 14:45:26

Band IV_1312

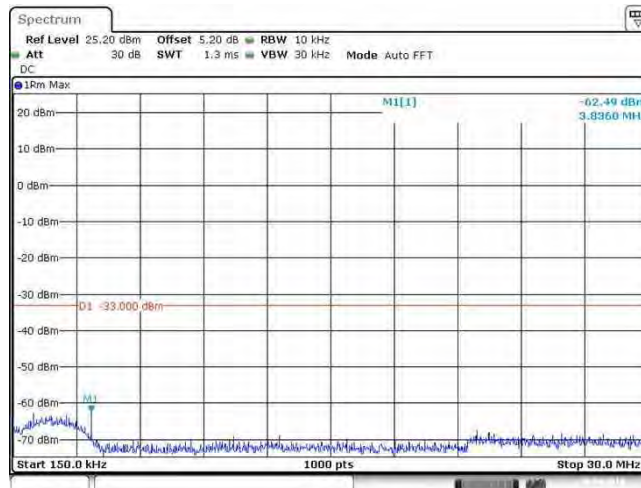


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Date: 20 APR. 2019 14:45:39

Band IV_1413

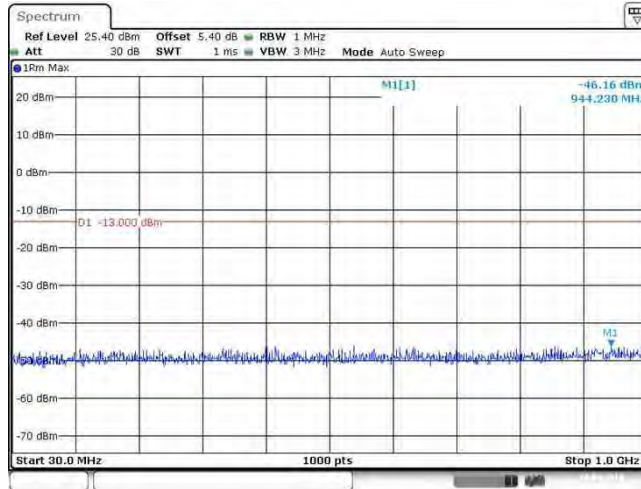


Date: 20 APR. 2019 14:45:50

Band IV_1413

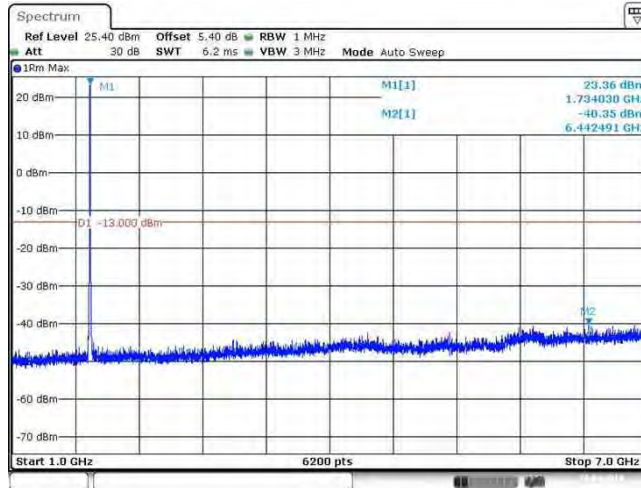


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Date: 20 APR. 2019 14:46:01

Band IV_1413

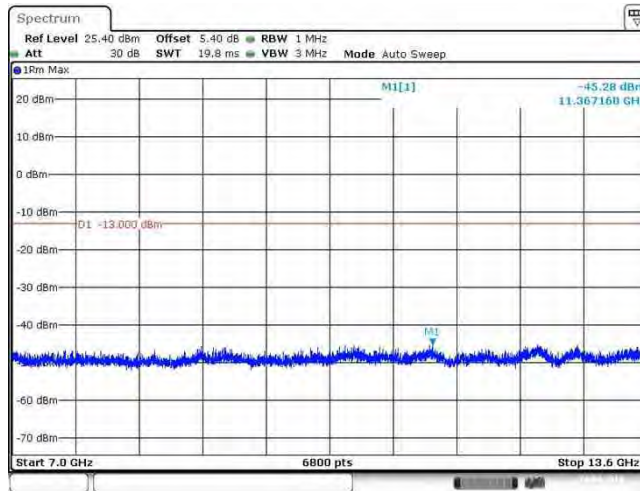


Date: 20 APR. 2019 14:46:13

Band IV_1413

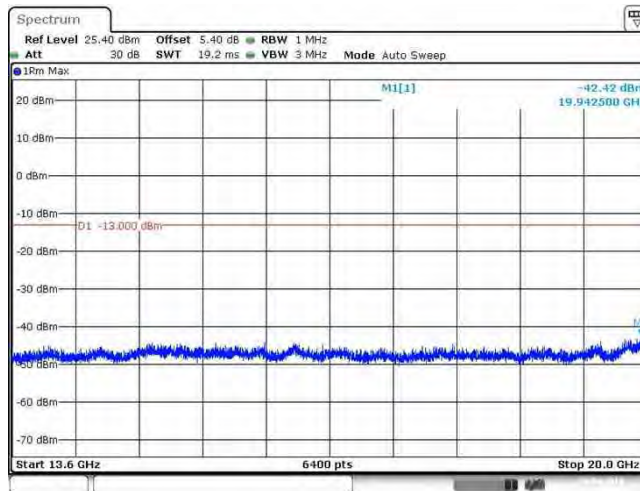


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Date: 20 APR. 2019 14:46:24

Band IV_1413

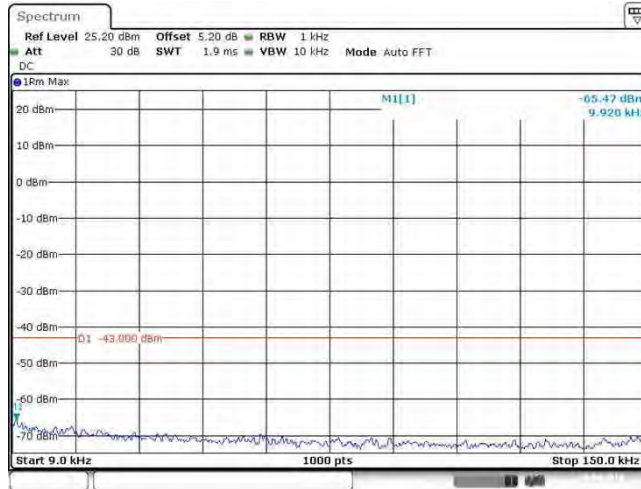


Date: 20 APR. 2019 14:46:35

Band IV_1413

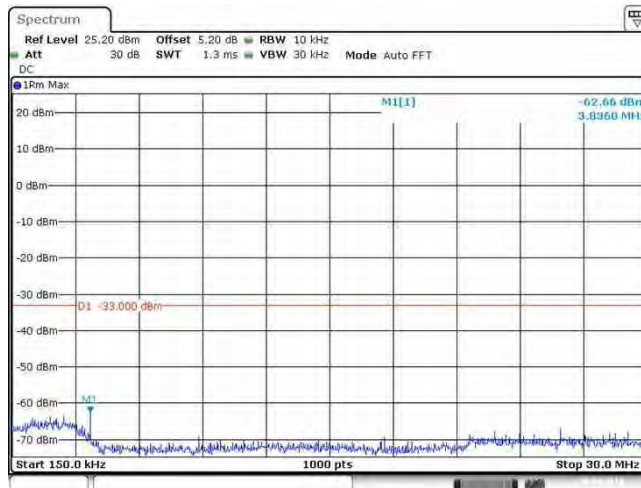


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Date: 20 APR. 2019 14:46:49

Band IV_1513

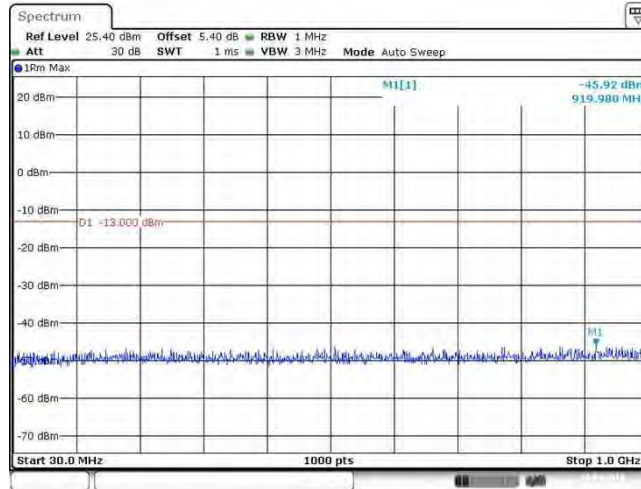


Date: 20 APR. 2019 14:46:59

Band IV_1513

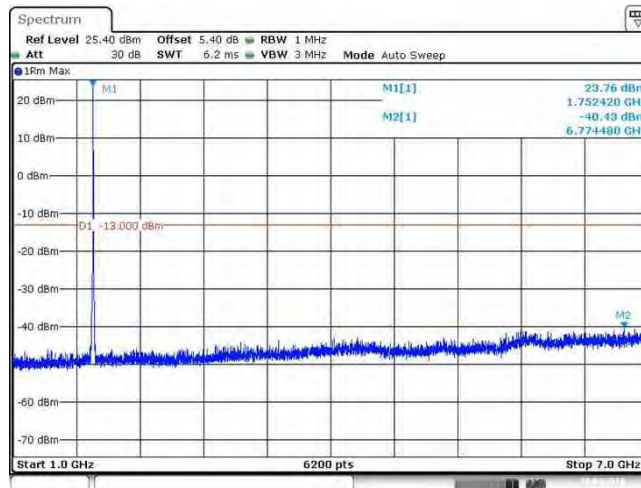


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Date: 20 APR. 2019 14:47:10

Band IV_1513

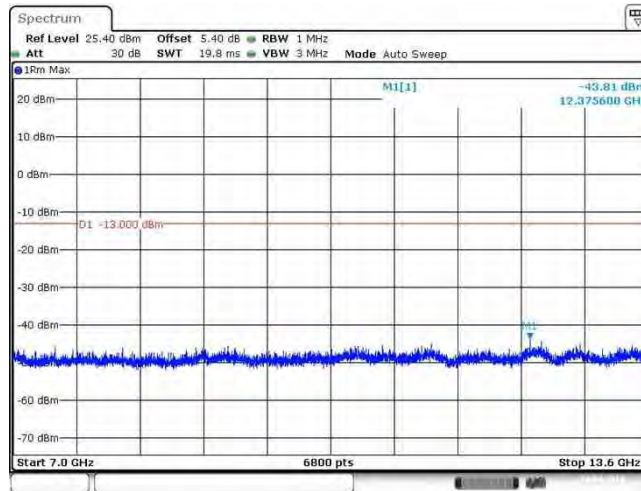


Date: 20 APR. 2019 14:47:22

Band IV_1513

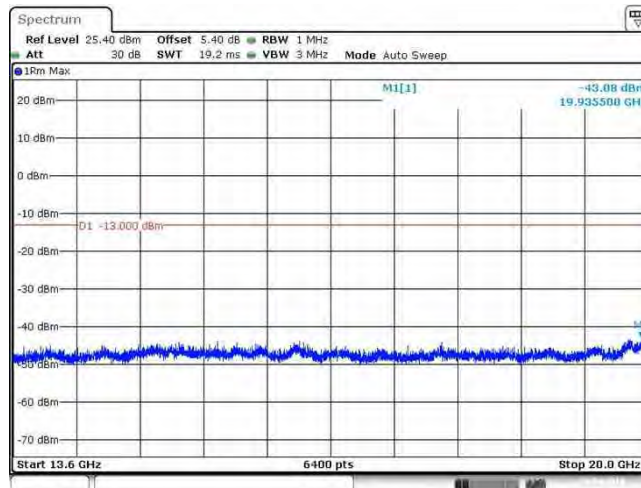


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Date: 20 APR. 2019 14:47:33

Band IV_1513

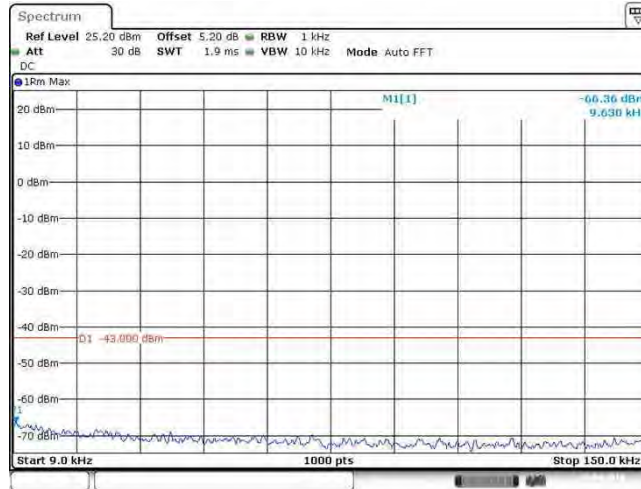


Date: 20 APR. 2019 14:47:44

Band IV_1513

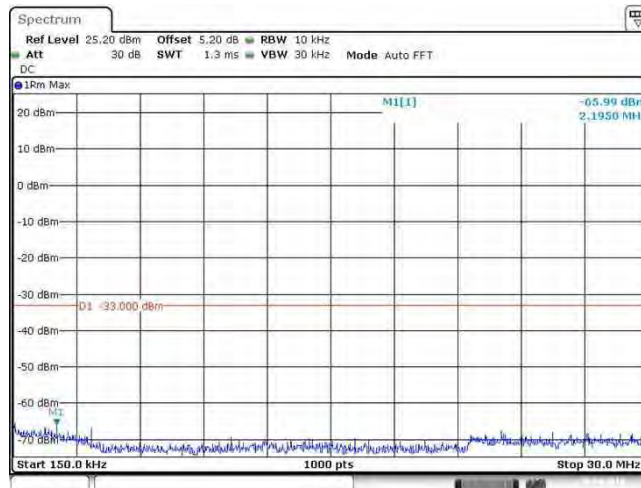


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Date: 20 APR. 2019 16:52:12

Band V_4132

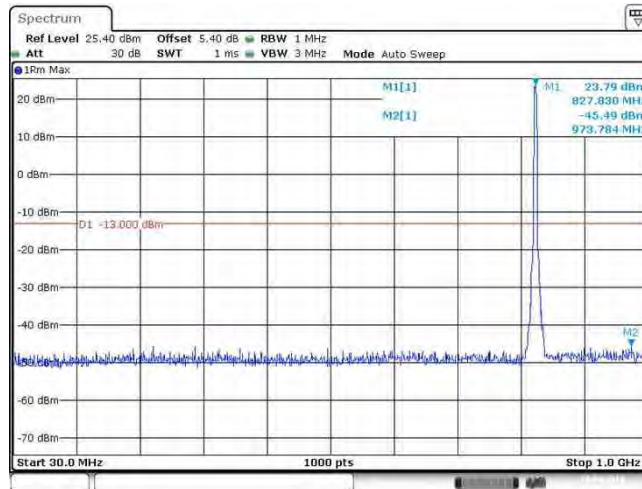


Date: 20 APR. 2019 16:52:22

Band V_4132

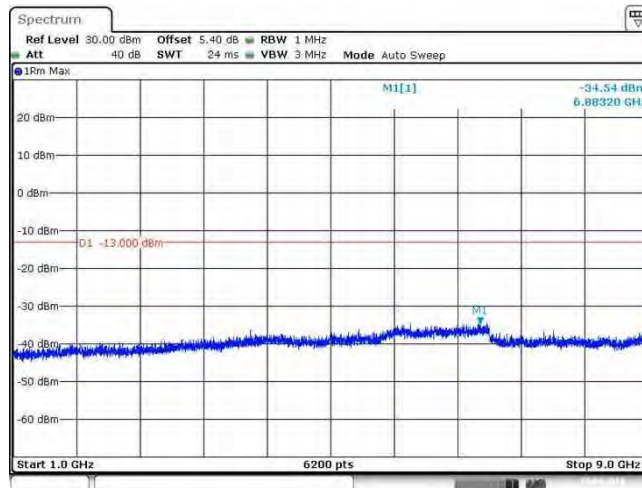


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Date: 20 APR. 2019 16:52:34

Band V_4132

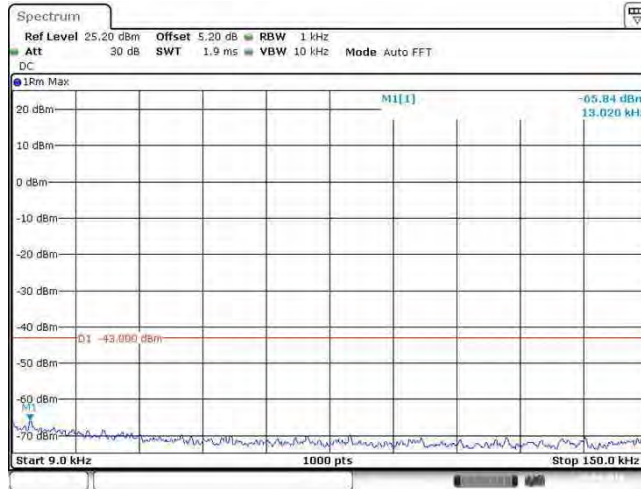


Date: 20 APR. 2019 16:52:45

Band V_4132

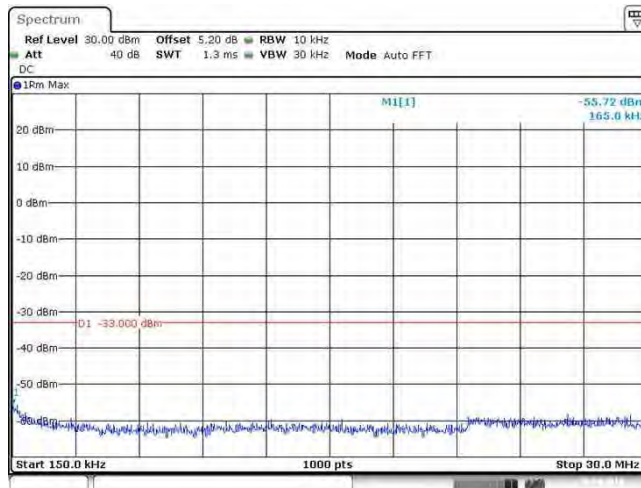


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Date: 20 APR. 2019 16:52:58

Band V_4182

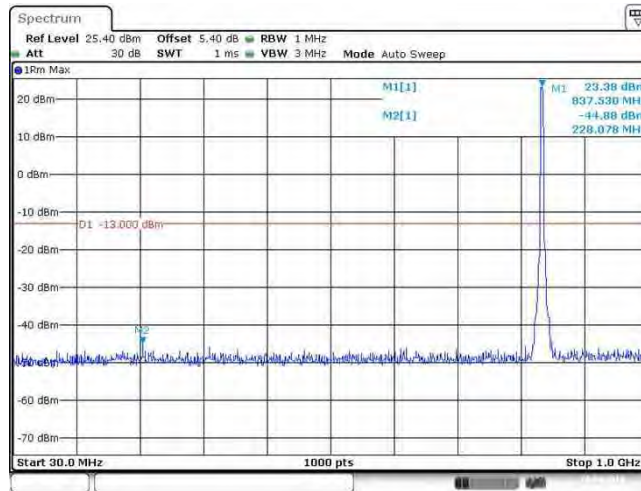


Date: 20 APR. 2019 16:53:22

Band V_4182

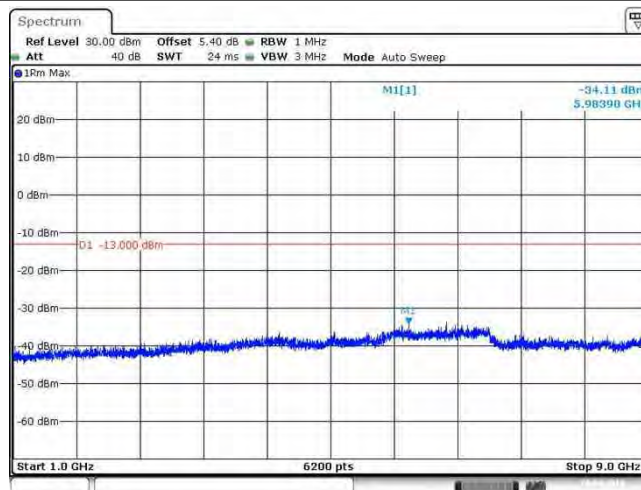


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Date: 20 APR. 2019 16:53:34

Band V_4182

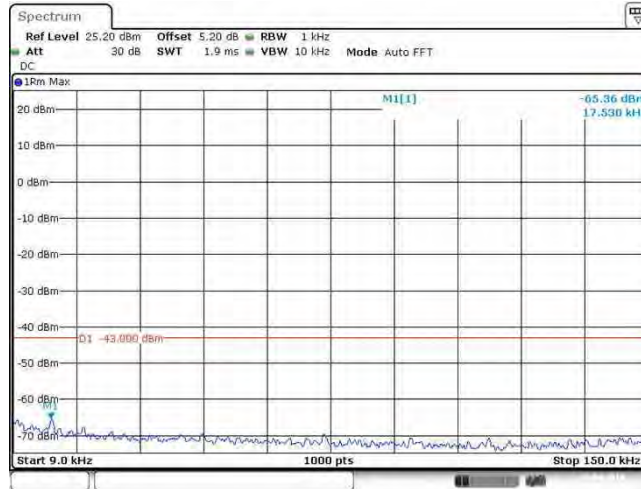


Date: 20 APR. 2019 16:53:45

Band V_4182

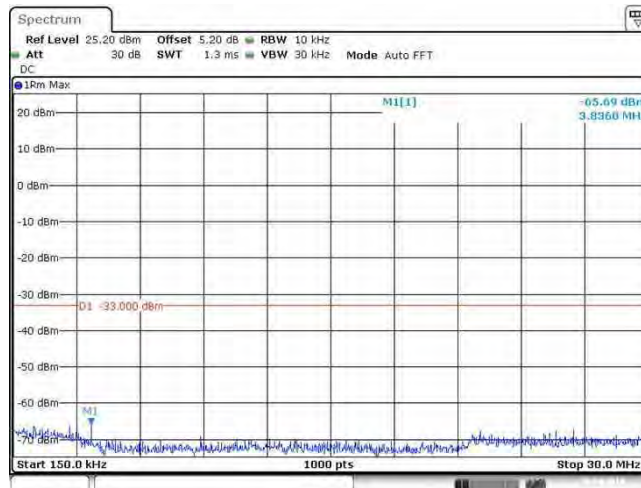


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Date: 20 APR. 2019 16:53:58

Band V_4233

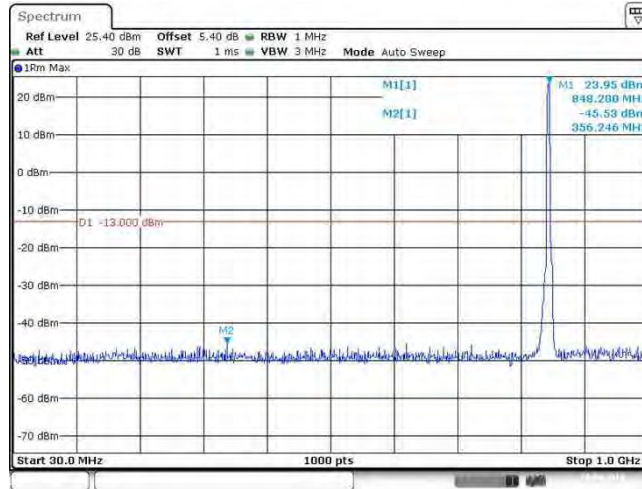


Date: 20 APR. 2019 16:54:09

Band V_4233

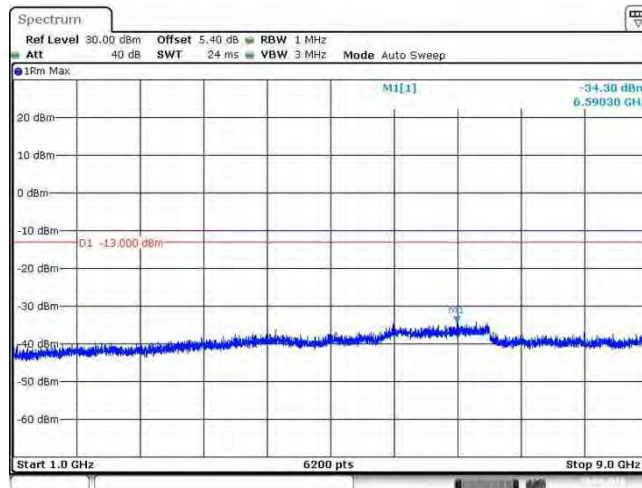


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Date: 20 APR. 2019 16:54:21

Band V_4233



Date: 20 APR. 2019 16:54:32

Band V_4233



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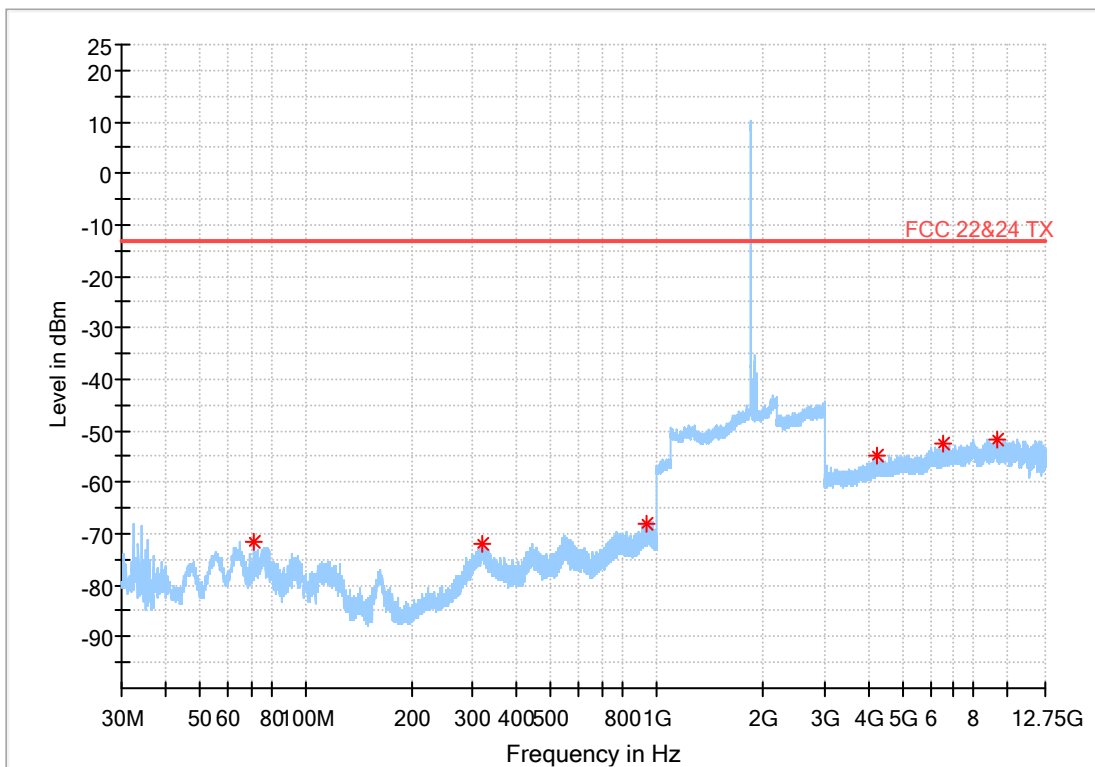
7. Field Strength of Spurious Radiation

7.1. Test BAND = WCDMA BAND II (Up Antenna)

7.1.1. Test Mode = WCDMA/TM1

7.1.1.1. Test Channel = LCH_Vertical

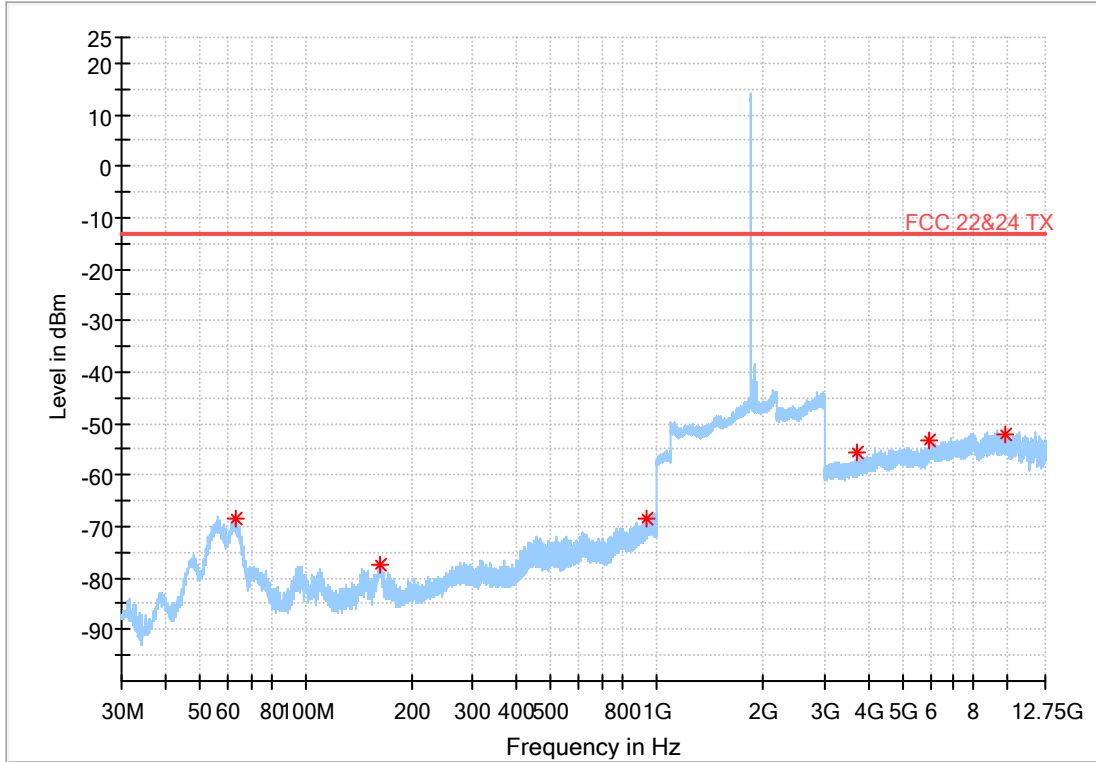
Full Spectrum



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7.1.1.2. Test Channel = LCH_Horizontal

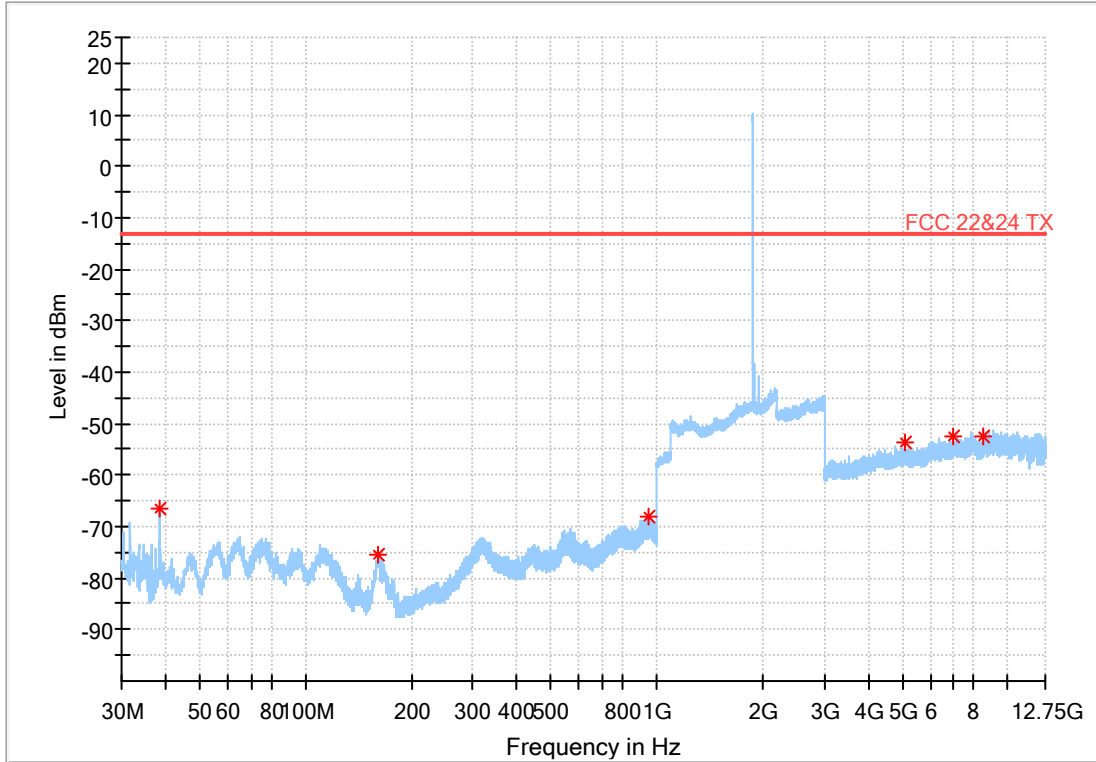
Full Spectrum



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7.1.1.3. Test Channel = MCH_Vertical

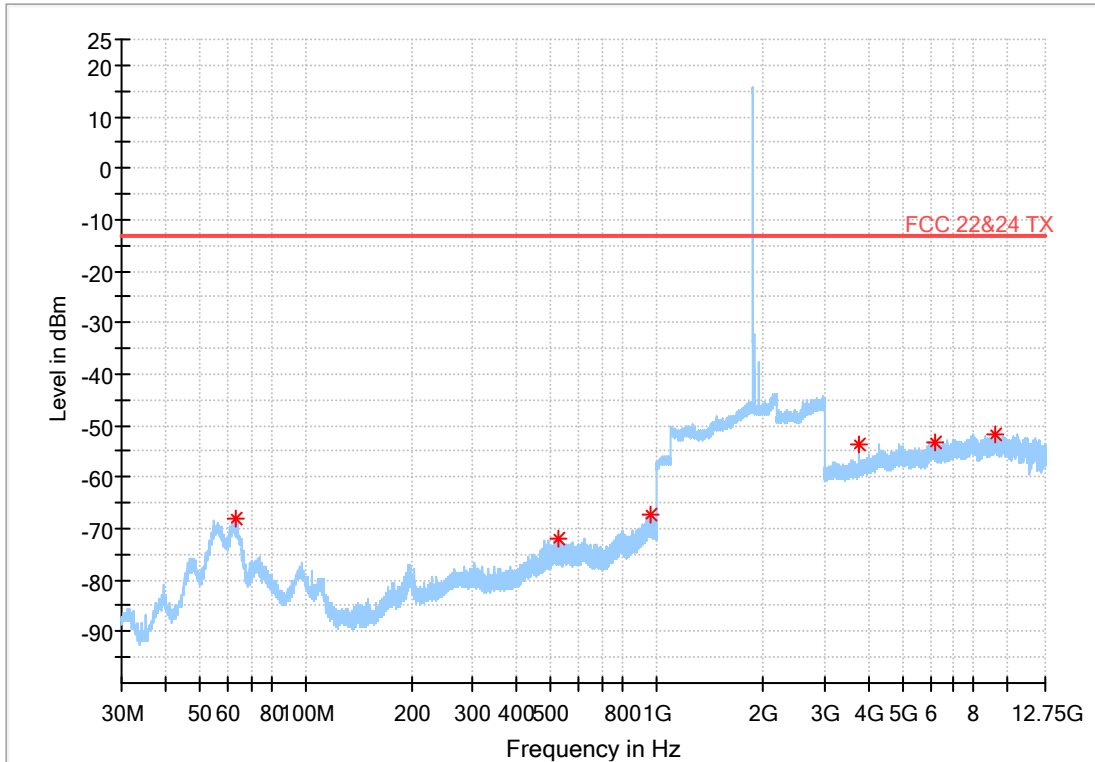
Full Spectrum



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7.1.1.4. Test Channel = MCH_ Horizontal

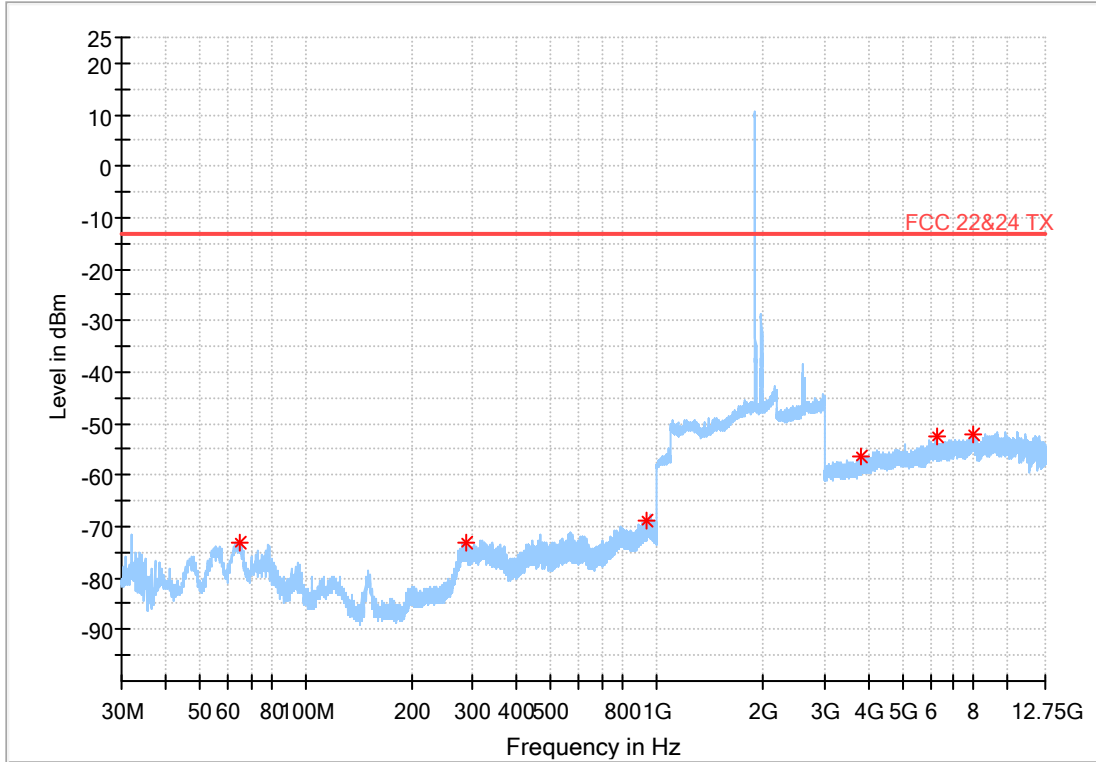
Full Spectrum



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7.1.1.5. Test Channel = HCH_Vertical

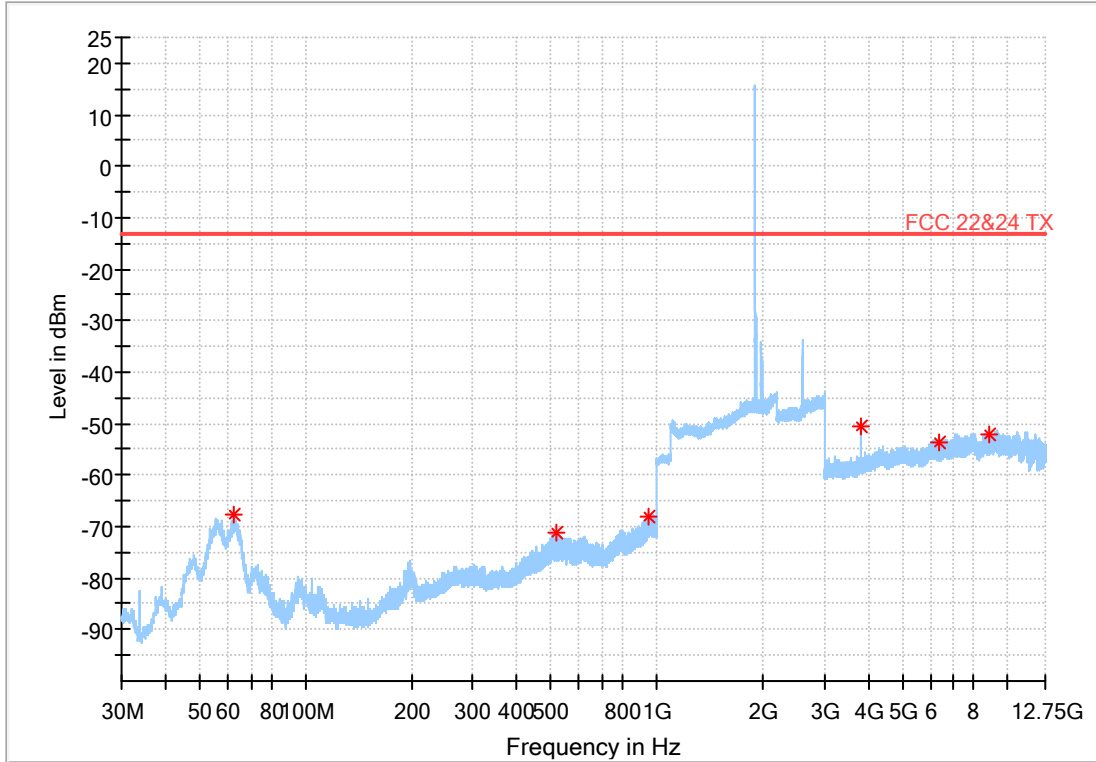
Full Spectrum



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7.1.1.6. Test Channel = HCH_ Horizontal

Full Spectrum



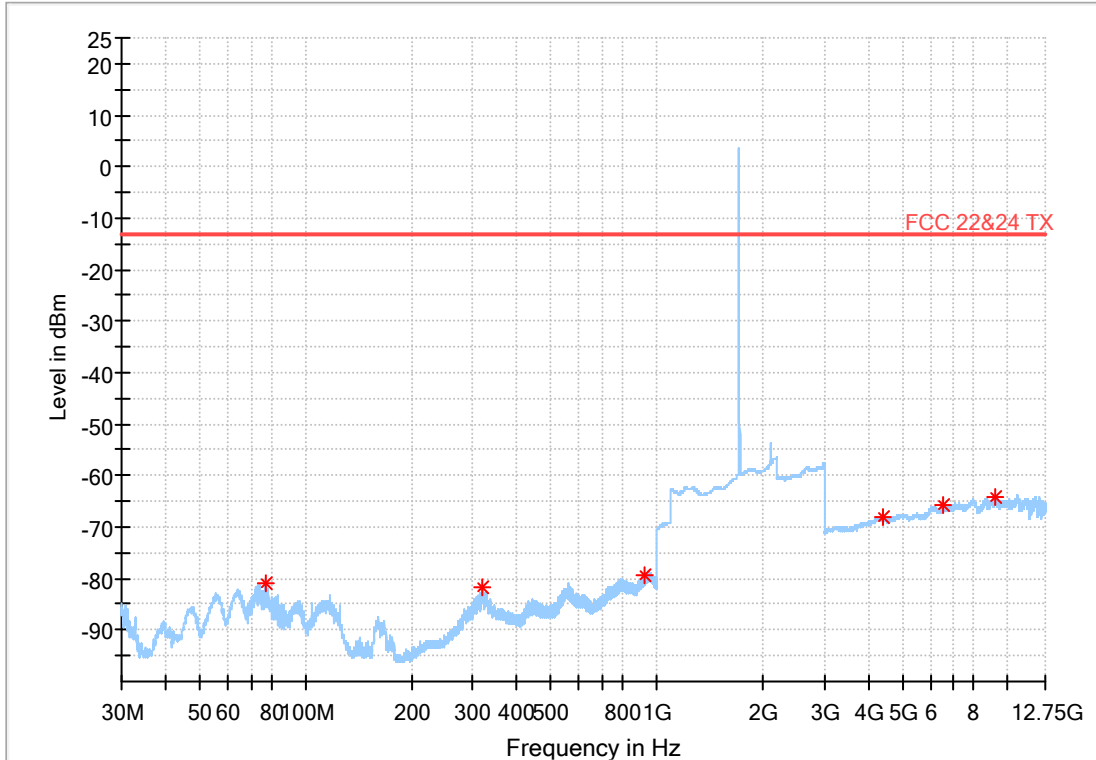
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7.2. Test BAND = WCDMA BAND IV (Up Antenna)

7.2.1. Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH_Vertical

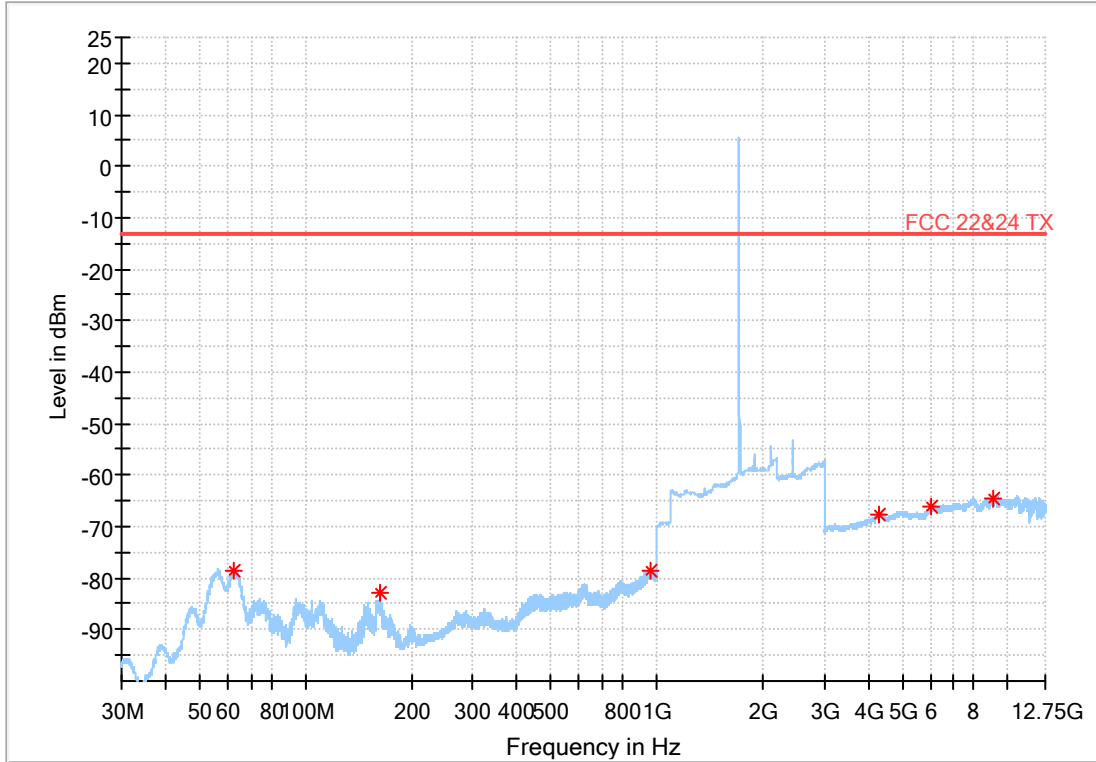
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7.2.1.2. Test Channel = LCH_Horizontal

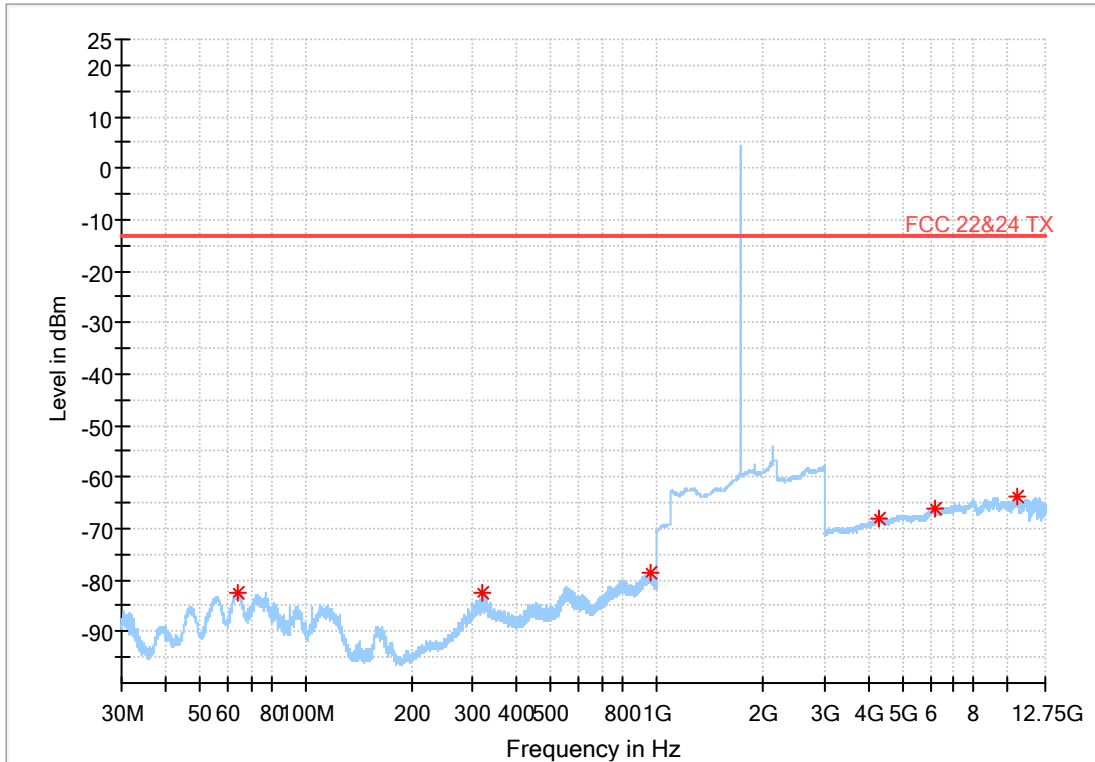
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7.2.1.3. Test Channel = MCH_Vertical

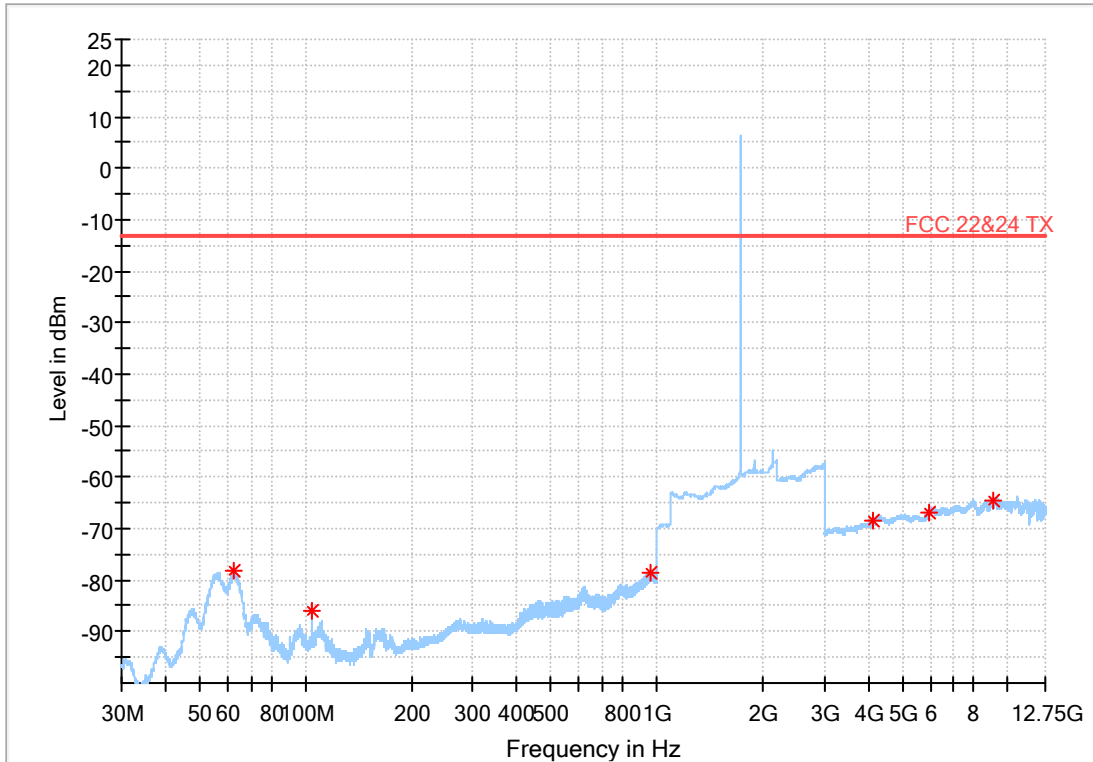
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7.2.1.4. Test Channel = MCH_ Horizontal

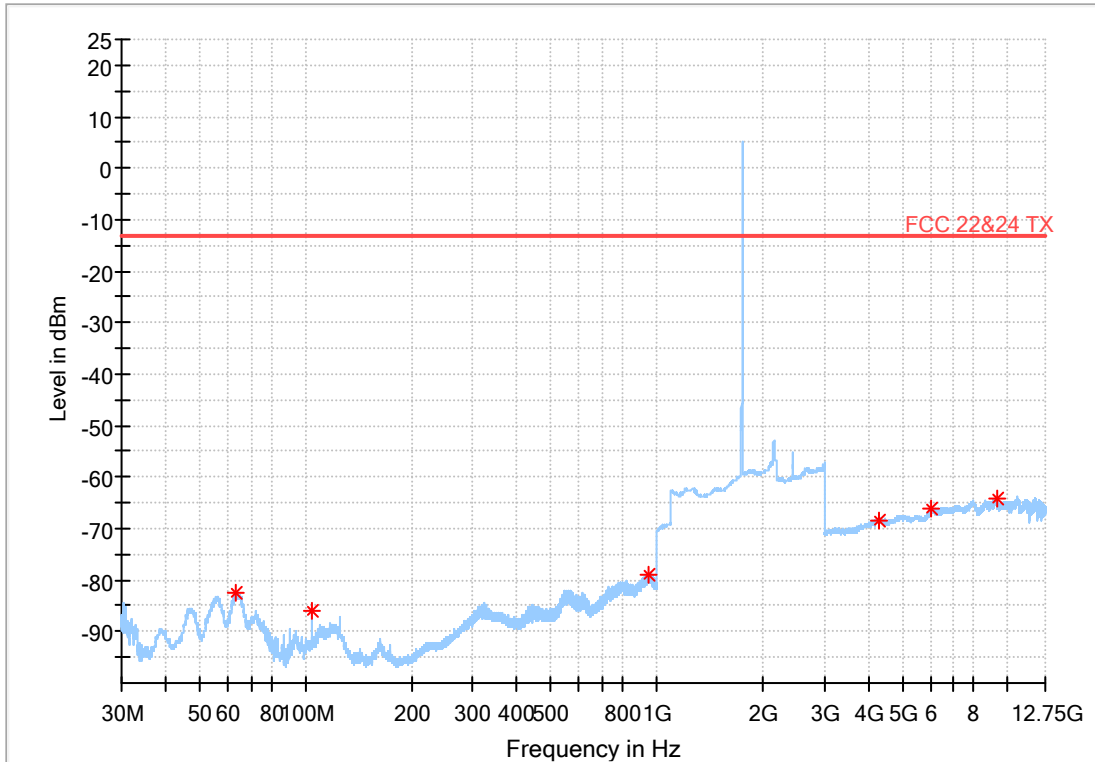
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7.2.1.5. Test Channel = HCH_Vertical

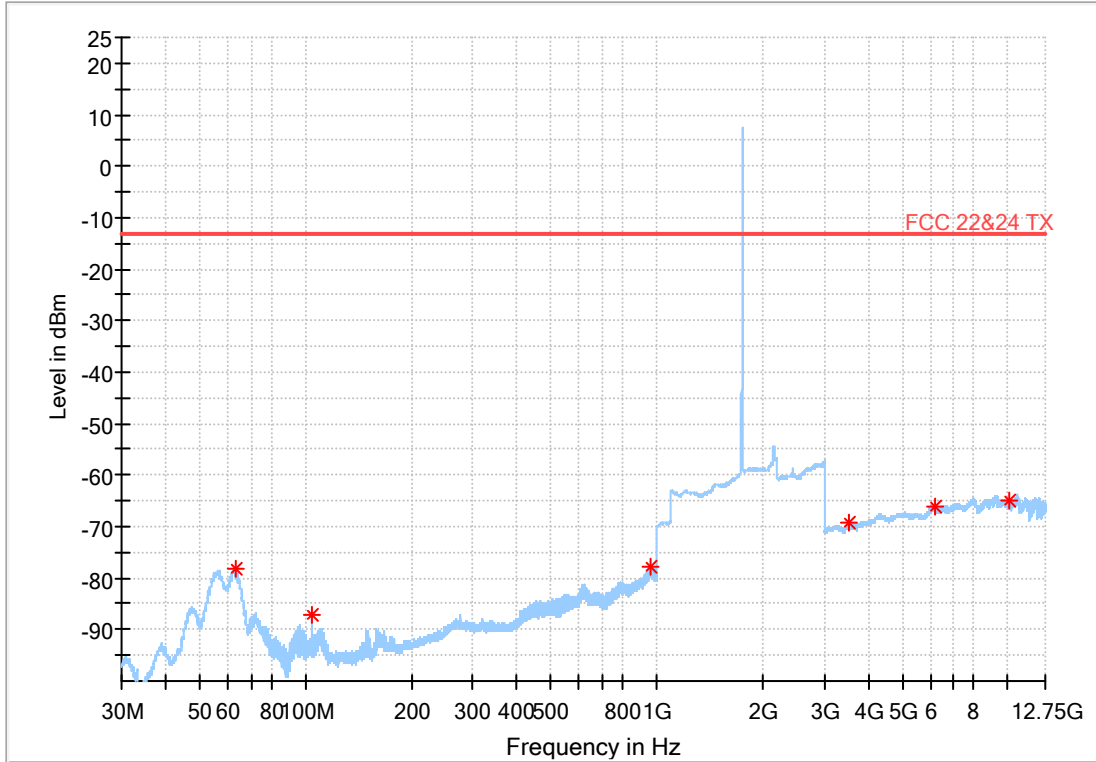
Full Spectrum



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7.2.1.6. Test Channel = HCH_ Horizontal

Full Spectrum



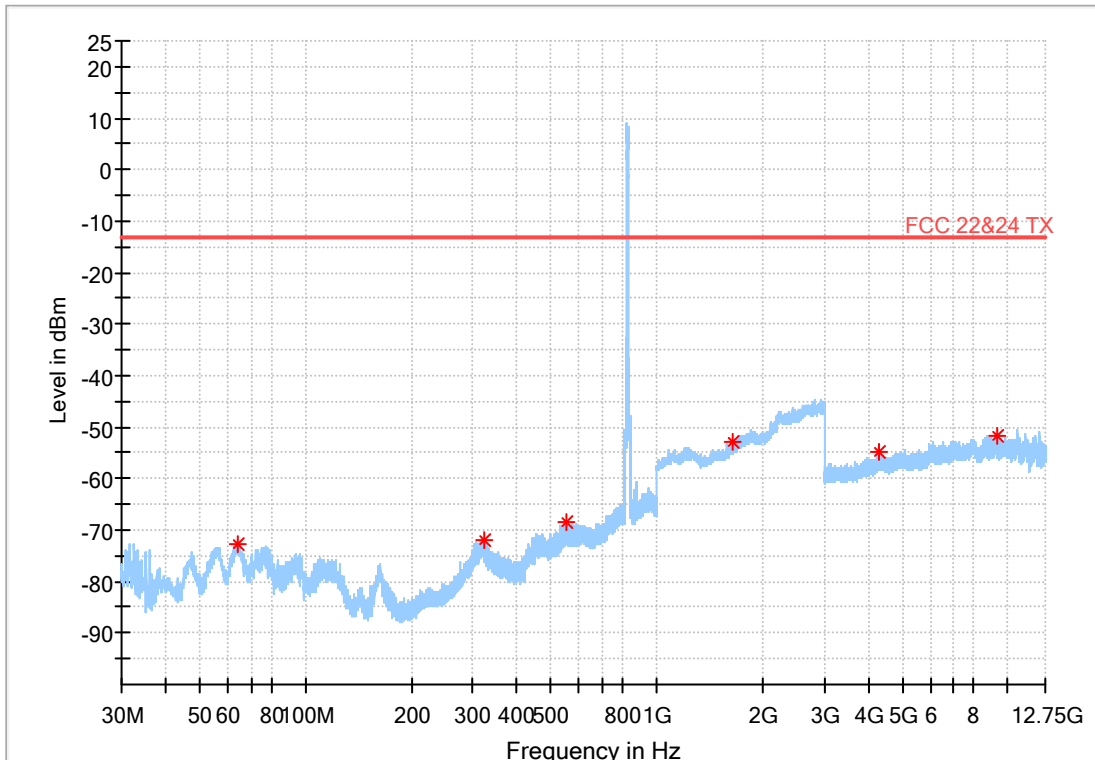
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7.3. Test BAND = WCDMA BAND V (Up Antenna)

7.3.1. Test Mode = WCDMA/TM1

7.3.1.1. Test Channel = LCH_Vertical

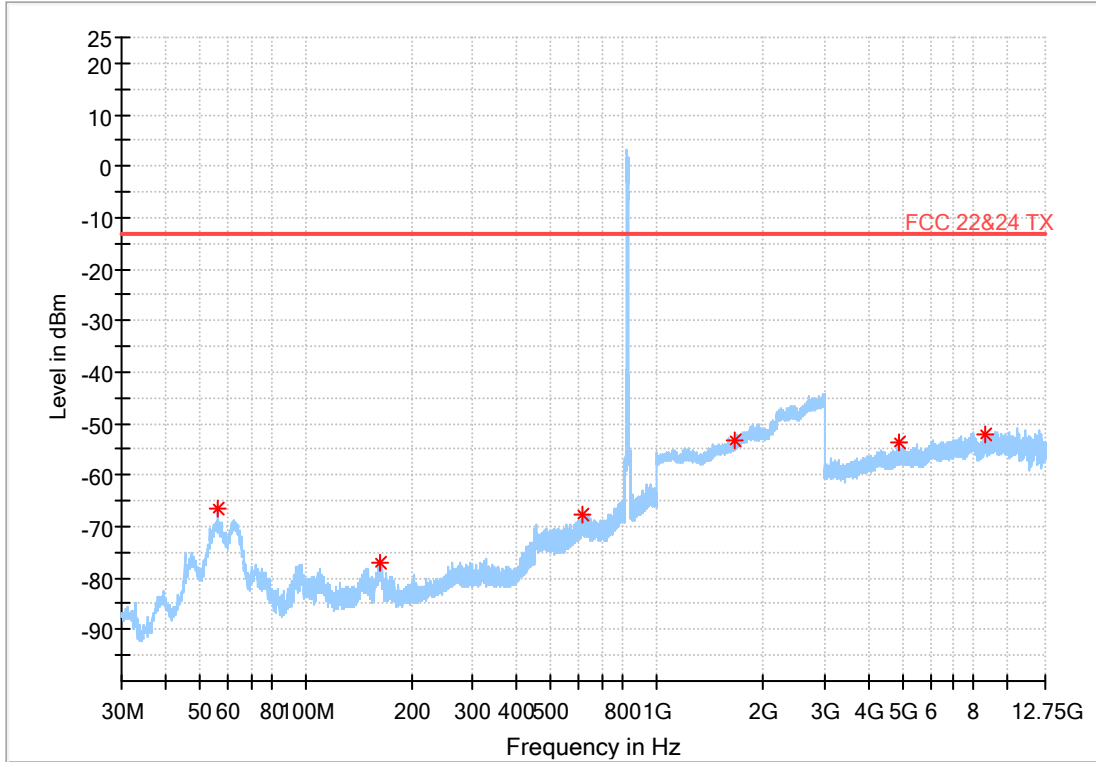
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7.3.1.2. Test Channel = LCH_Horizontal

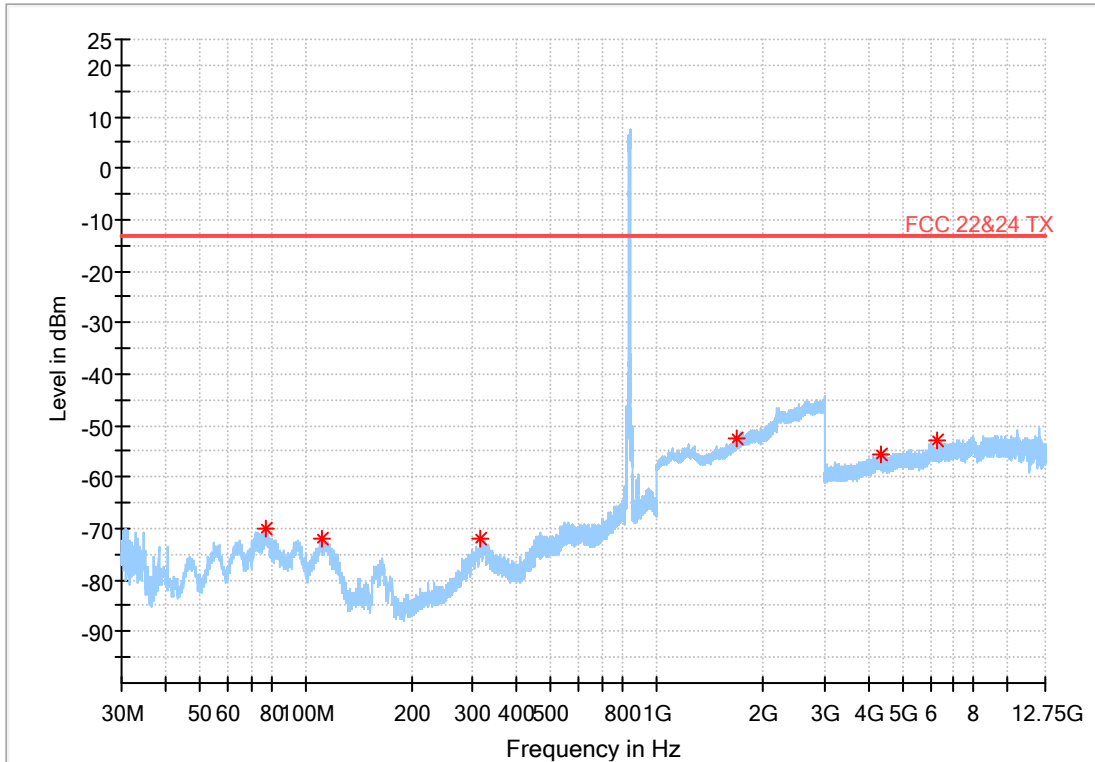
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7.3.1.3. Test Channel = MCH_Vertical

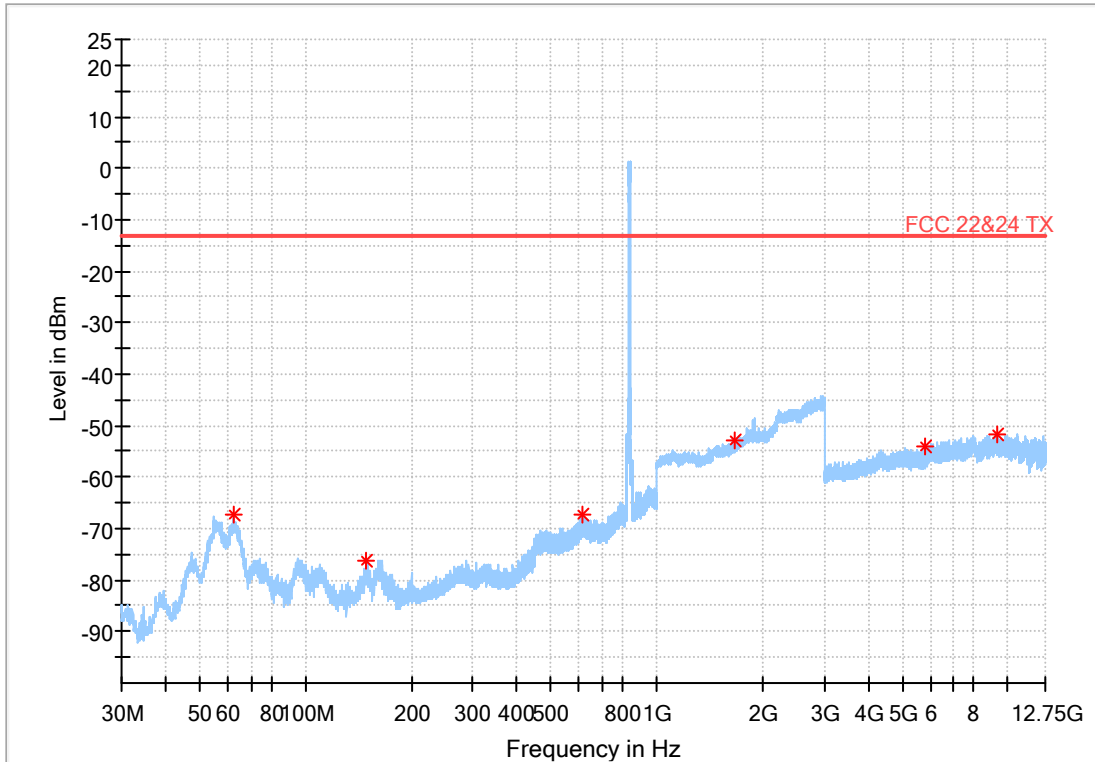
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7.3.1.4. Test Channel = MCH_ Horizontal

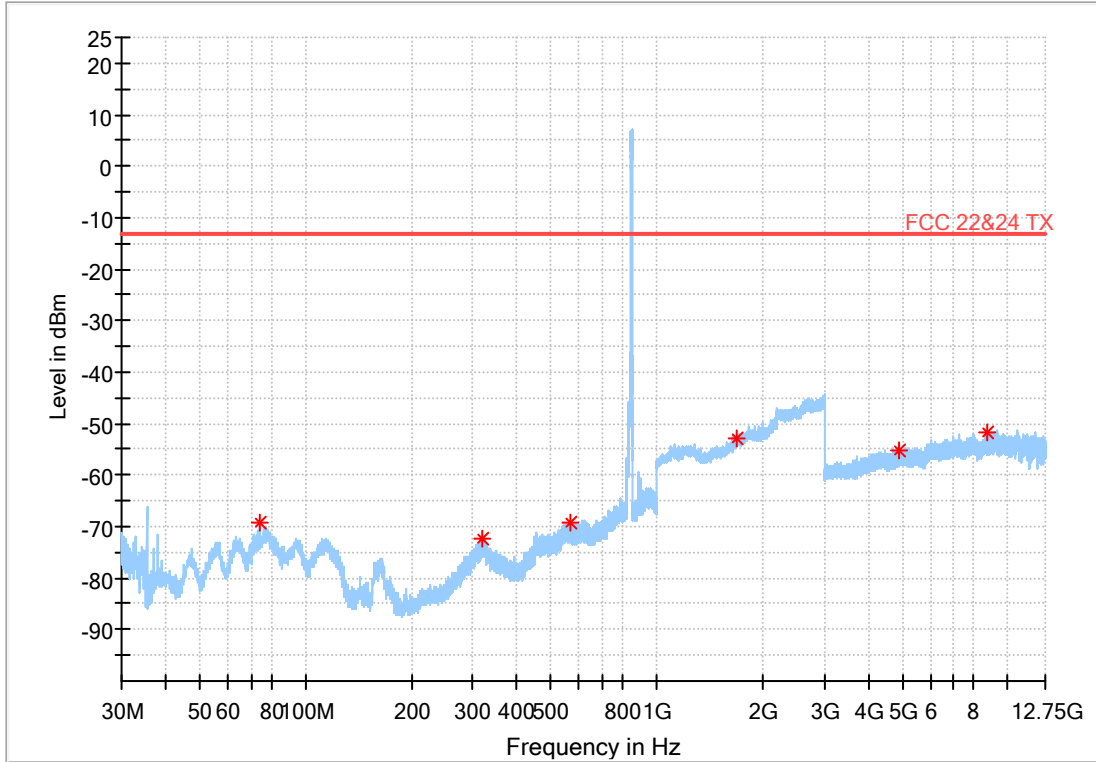
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7.3.1.5. Test Channel = HCH_Vertical

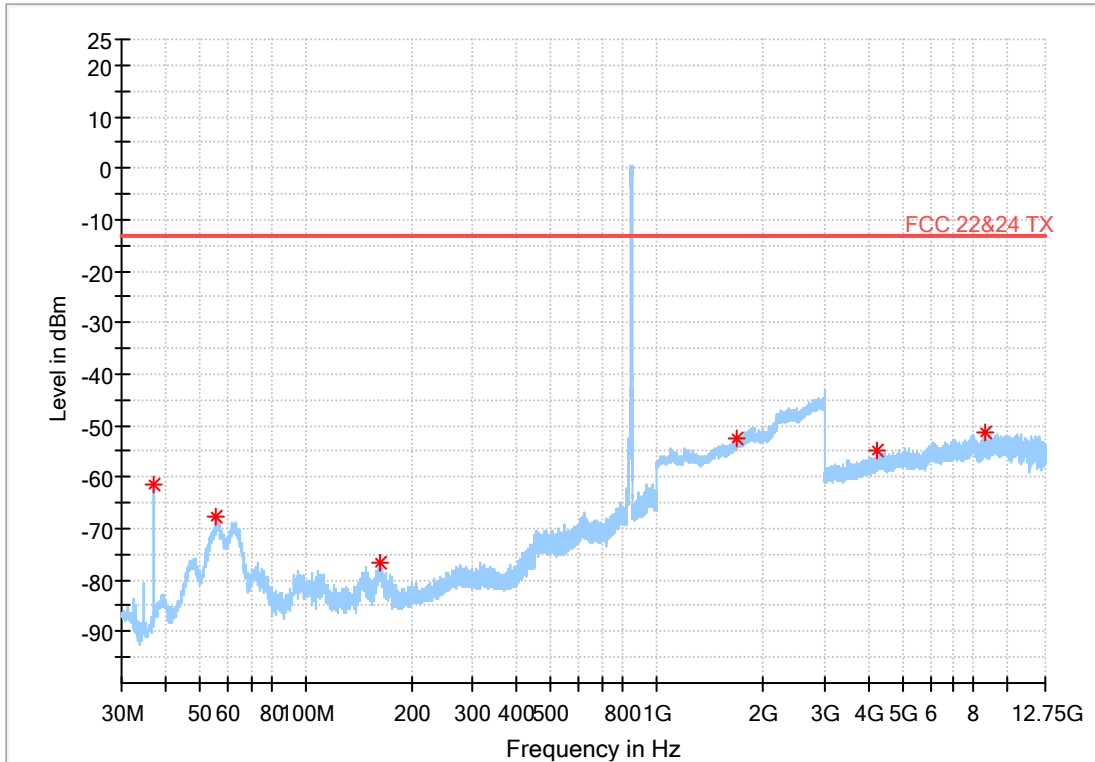
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7.3.1.6. Test Channel = HCH_ Horizontal

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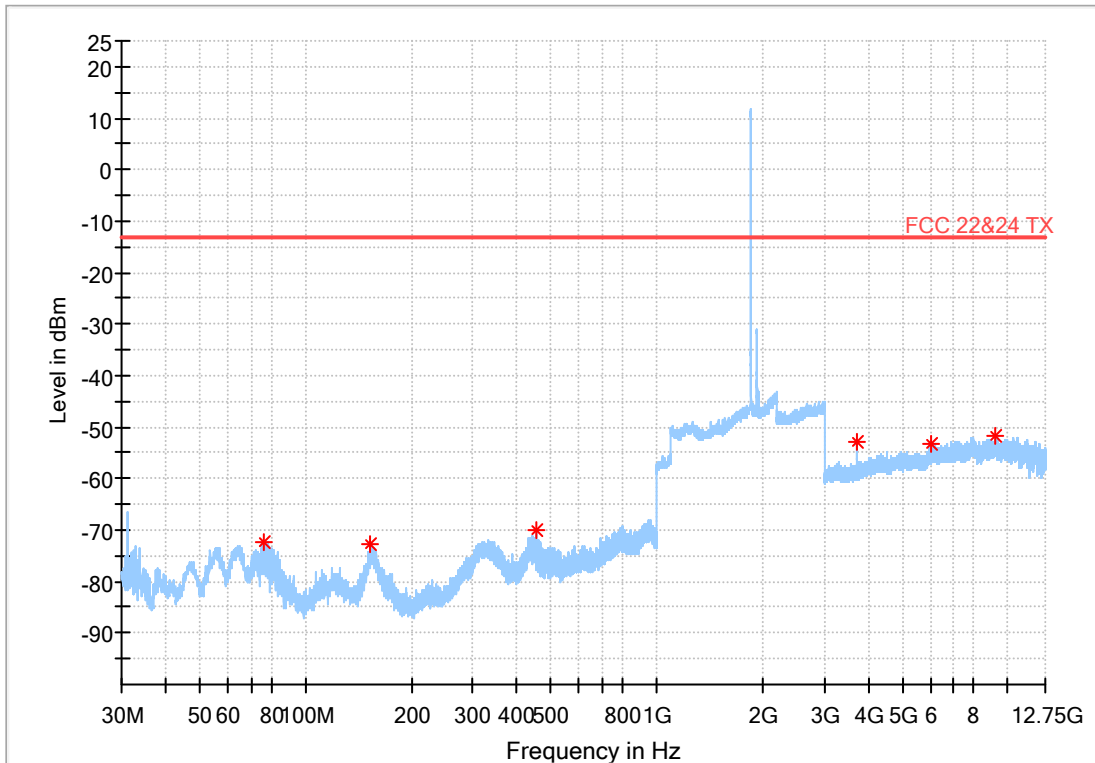
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7.4. Test BAND = WCDMA BAND II (Down Antenna)

7.4.1. Test Mode = WCDMA/TM1

7.4.1.1. Test Channel = LCH_Vertical

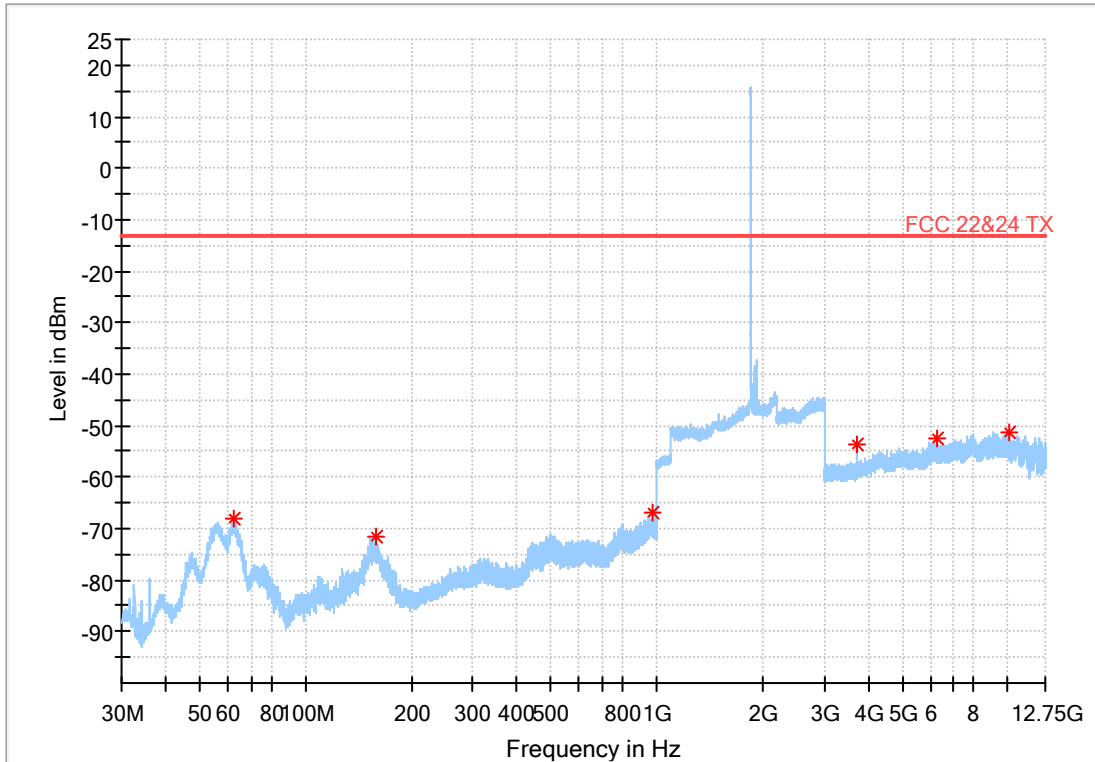
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7.4.1.2. Test Channel = LCH_Horizontal

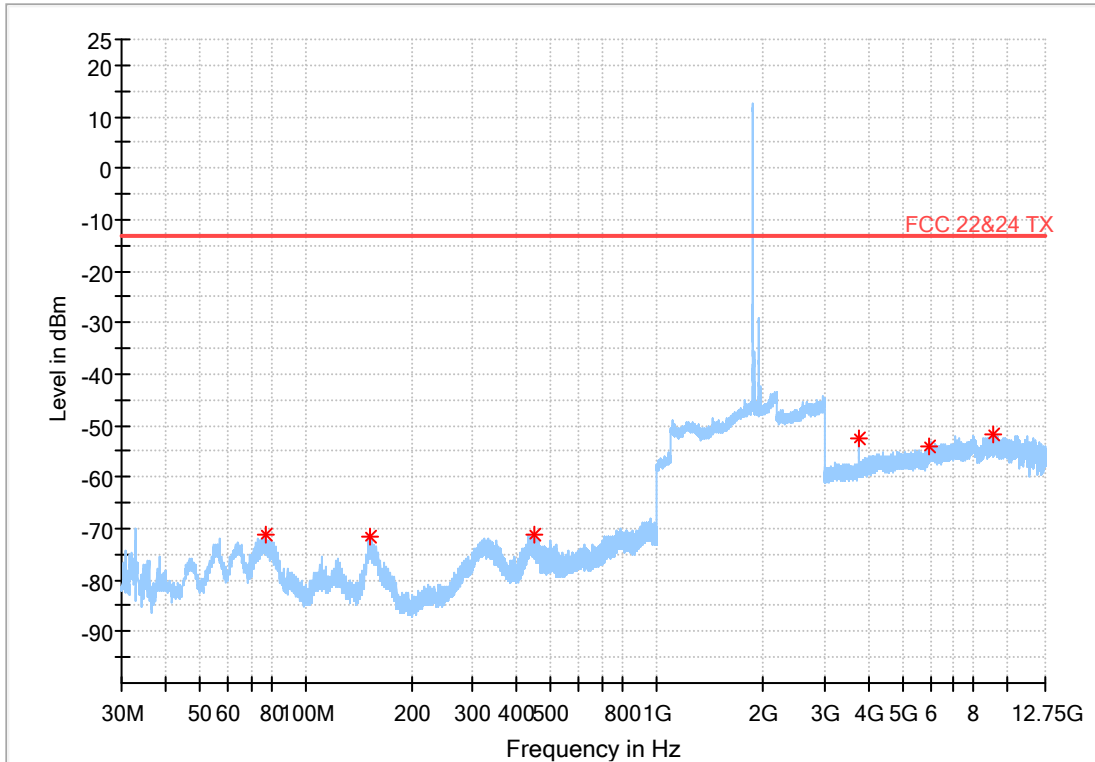
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7.4.1.3. Test Channel = MCH_Vertical

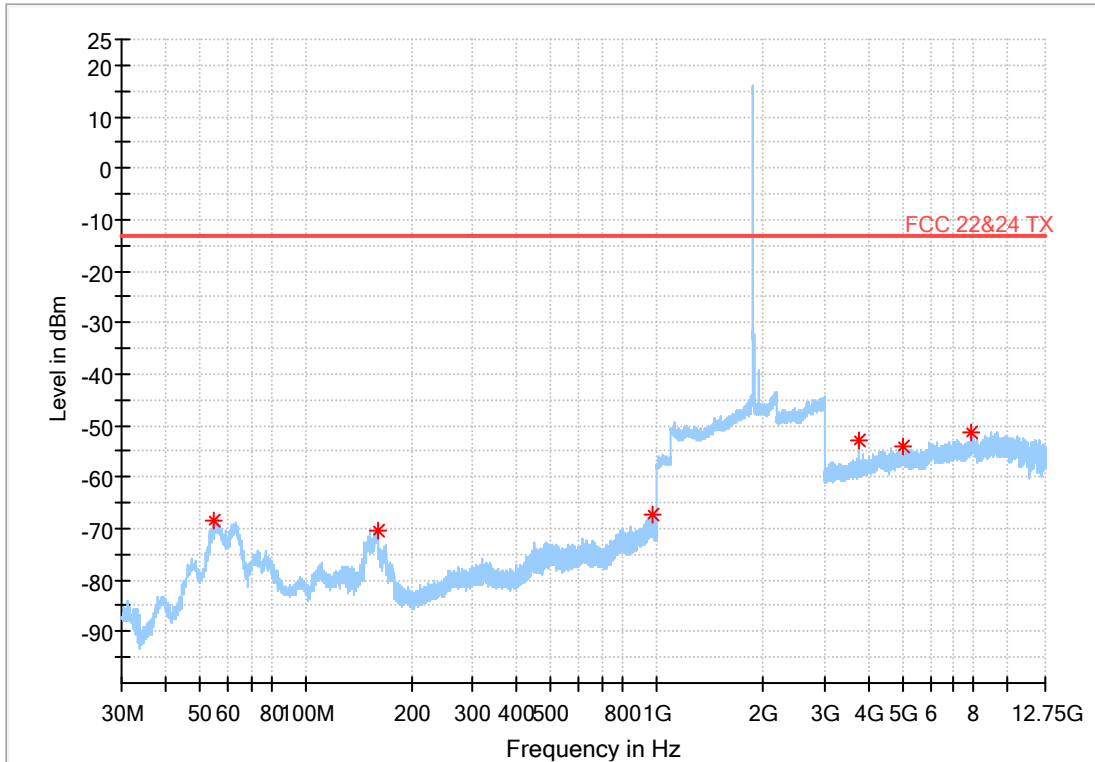
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7.4.1.4. Test Channel = MCH_ Horizontal

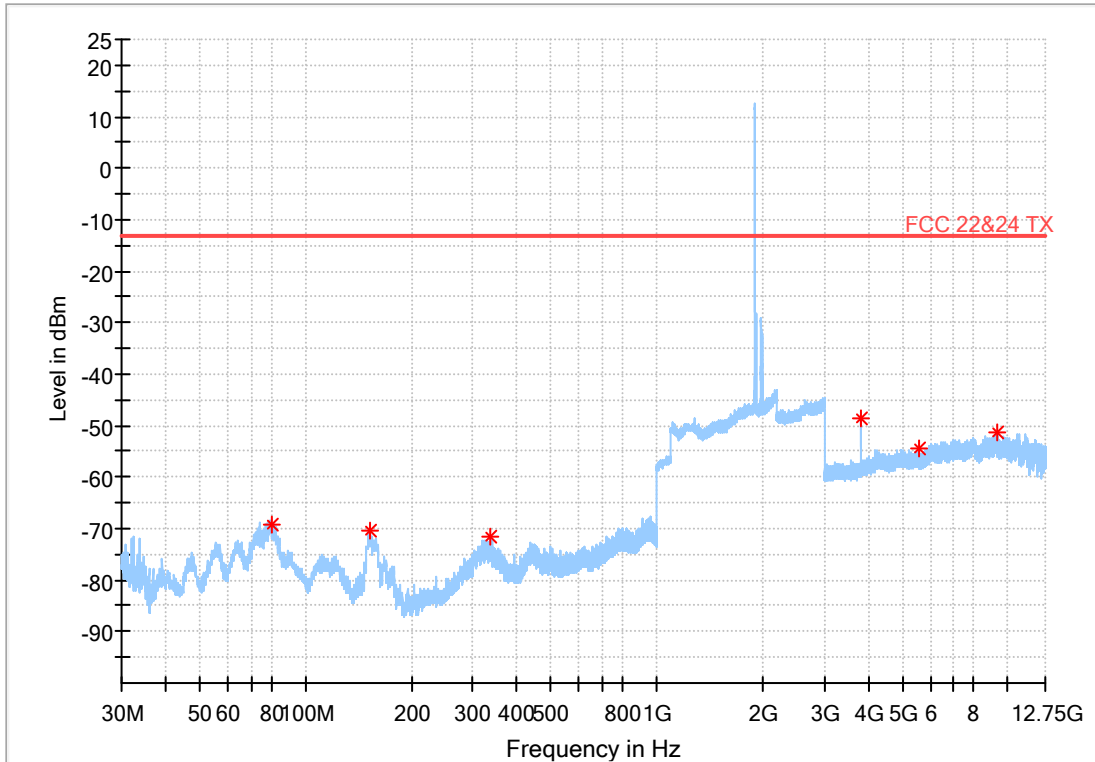
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7.4.1.5. Test Channel = HCH_Vertical

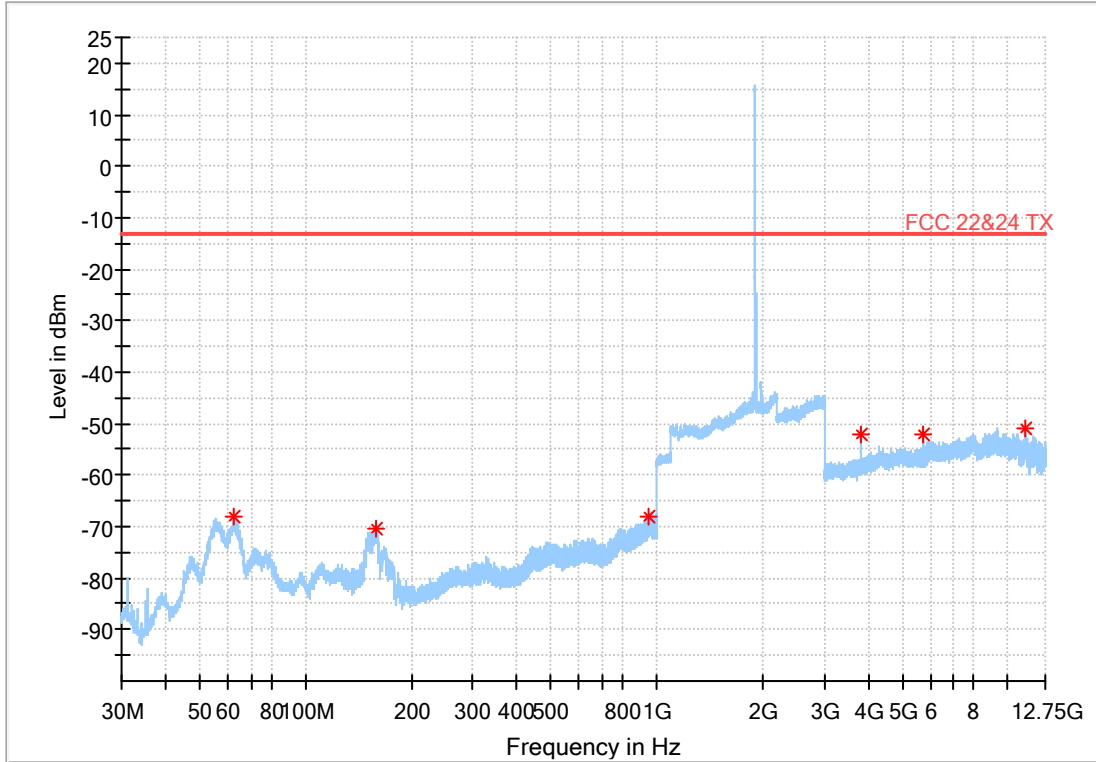
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7.4.1.6. Test Channel = HCH_ Horizontal

Full Spectrum



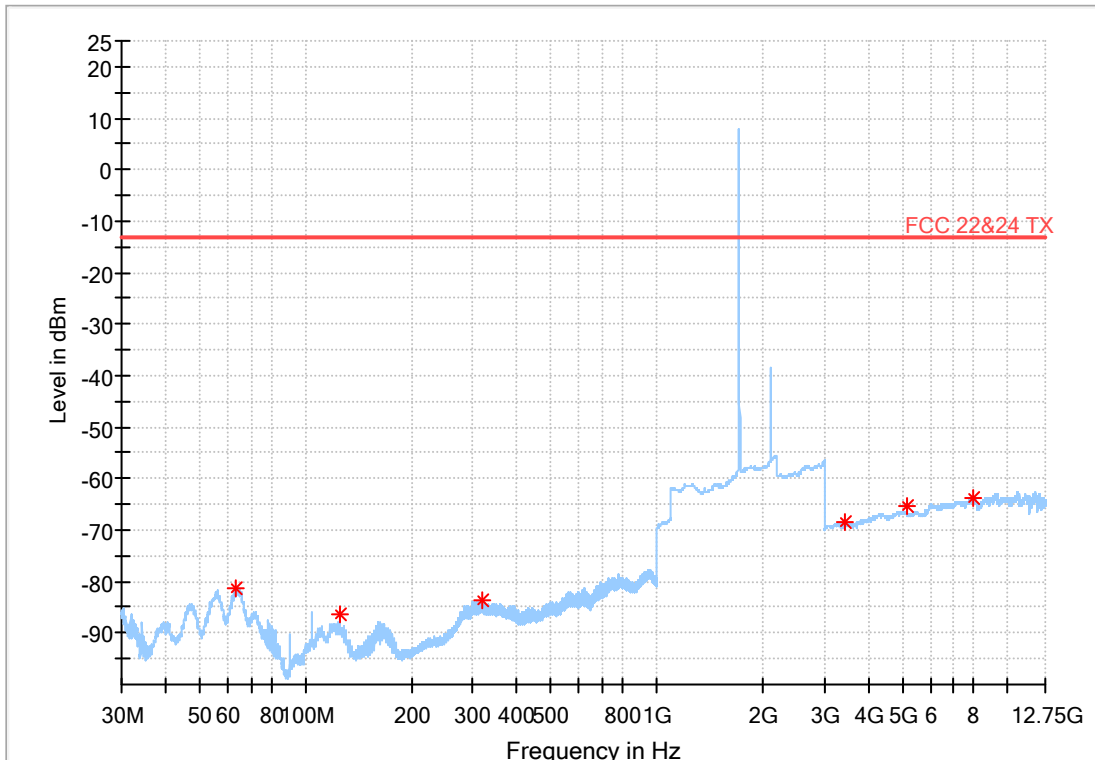
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7.5. Test BAND = WCDMA BAND IV (Down Antenna)

7.5.1. Test Mode = WCDMA/TM1

7.5.1.1. Test Channel = LCH_Vertical

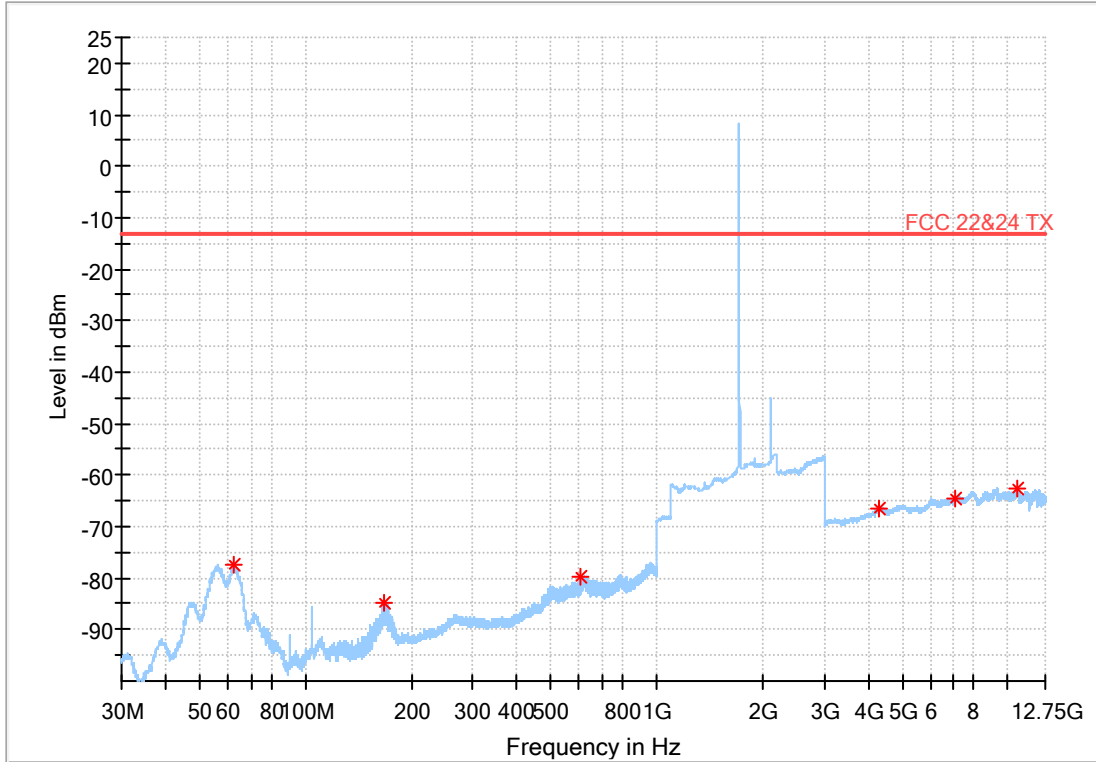
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7.5.1.2. Test Channel = LCH_Horizontal

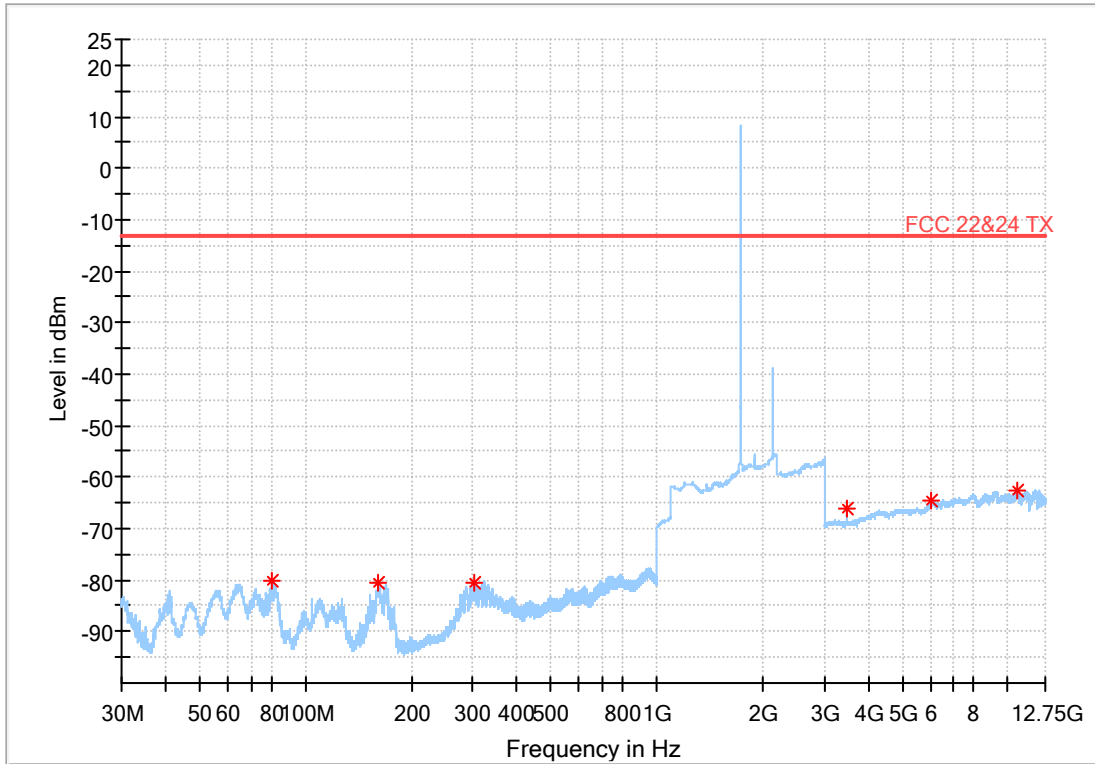
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7.5.1.3. Test Channel = MCH_Vertical

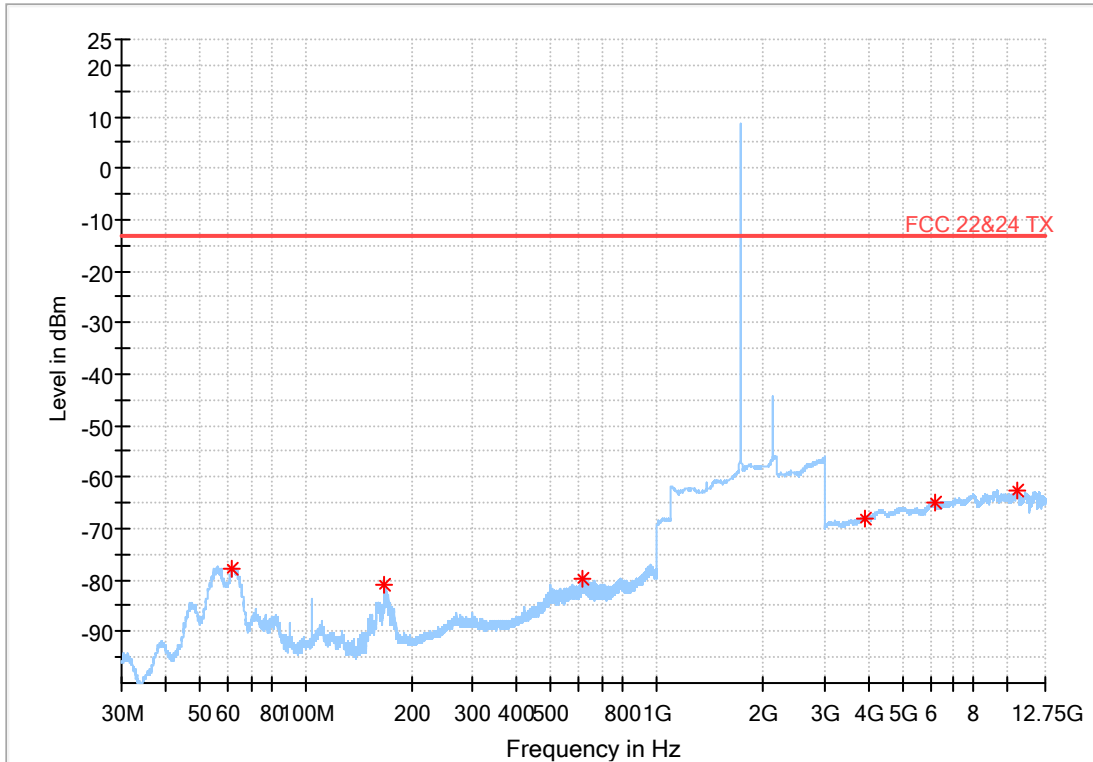
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7.5.1.4. Test Channel = MCH_ Horizontal

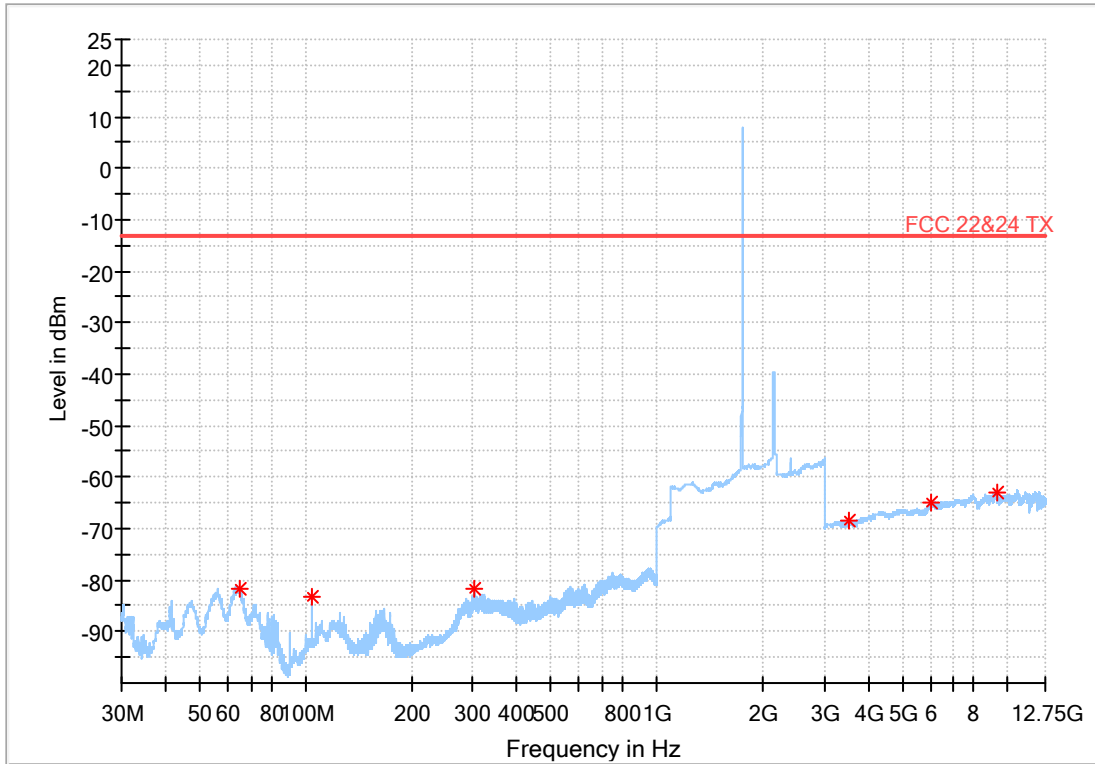
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7.5.1.5. Test Channel = HCH_Vertical

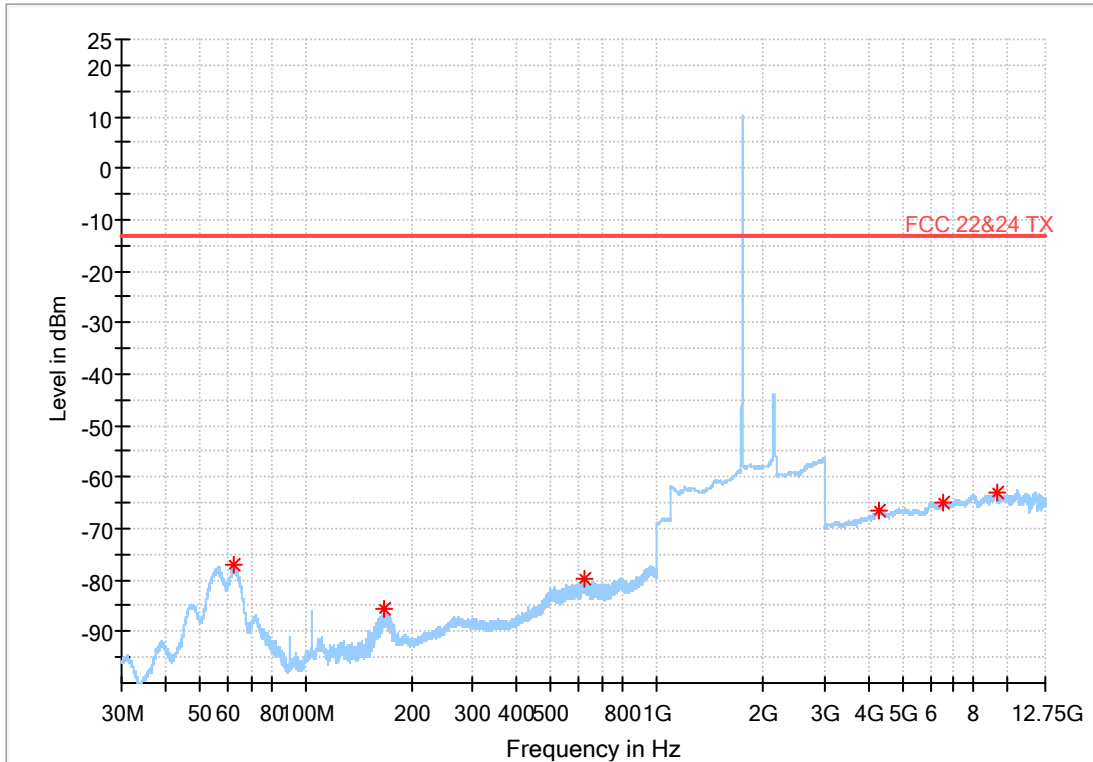
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7.5.1.6. Test Channel = HCH_ Horizontal

Full Spectrum



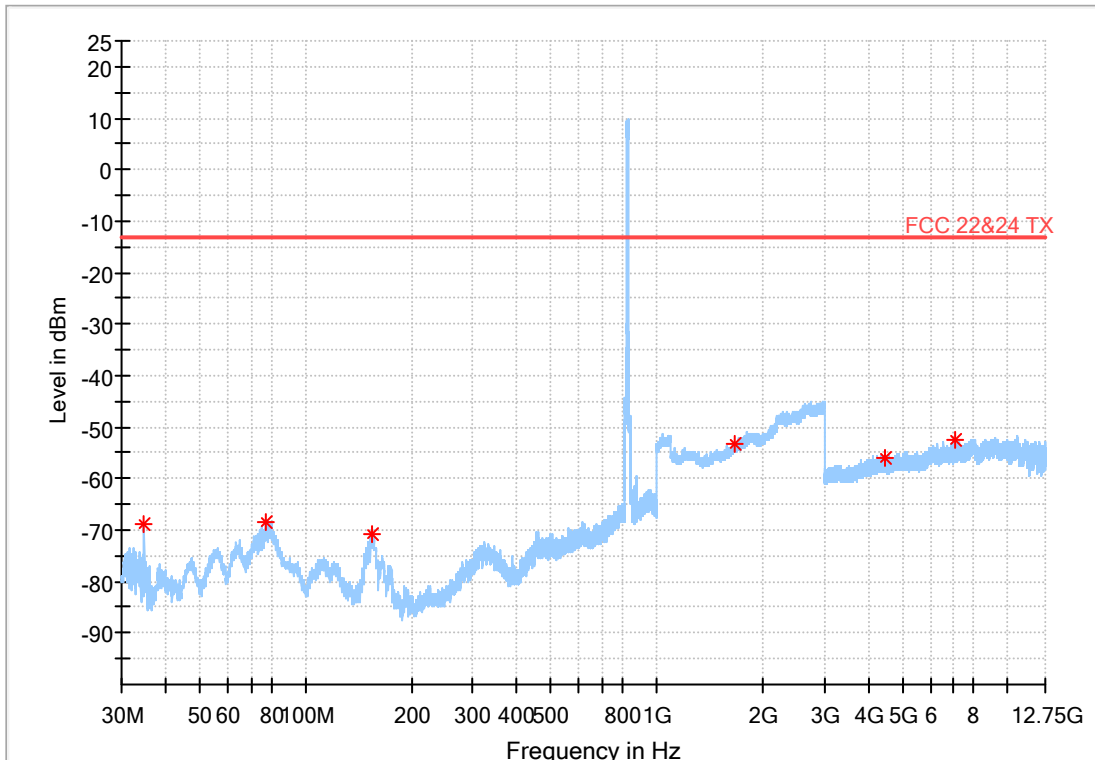
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7.6. Test BAND = WCDMA BAND V (Down Antenna)

7.6.1. Test Mode = WCDMA/TM1

7.6.1.1. Test Channel = LCH_Vertical

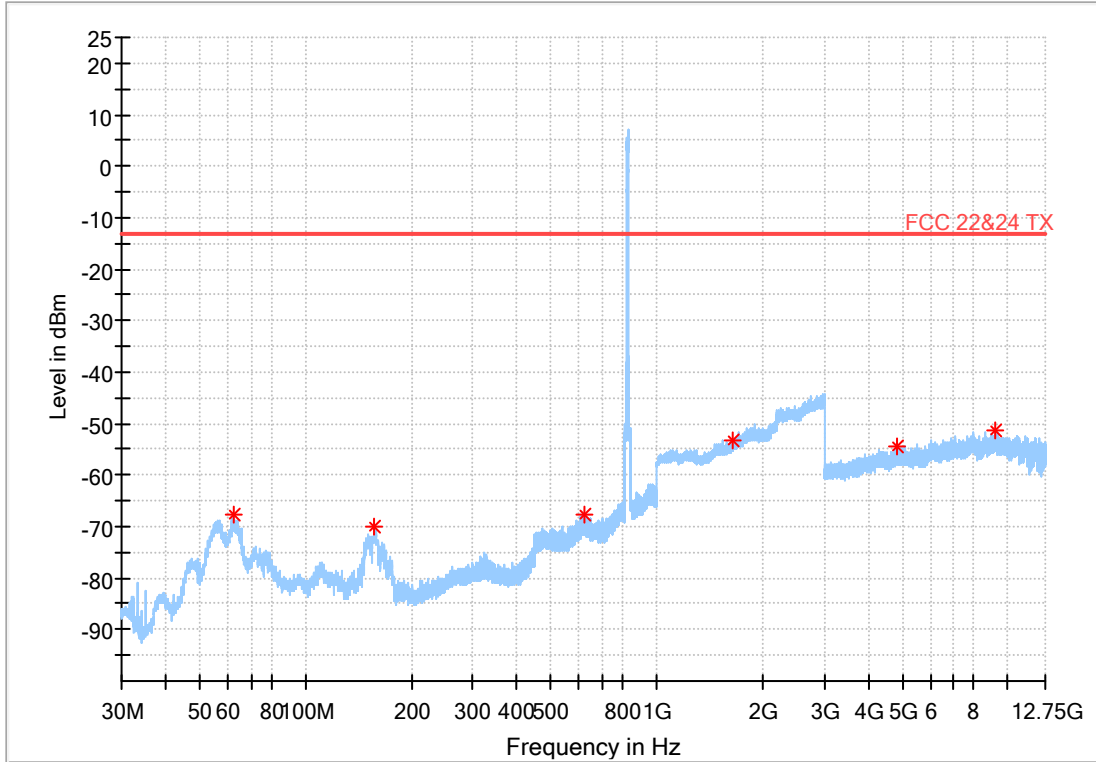
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7.6.1.2. Test Channel = LCH_Horizontal

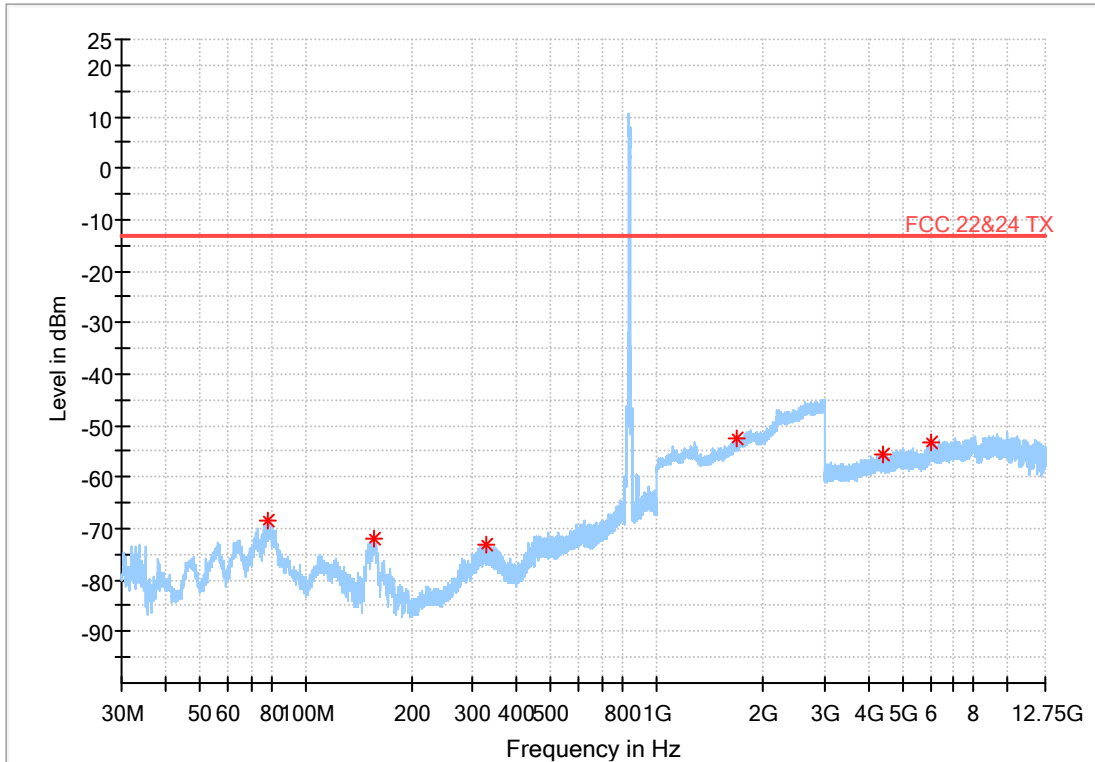
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7.6.1.3. Test Channel = MCH_Vertical

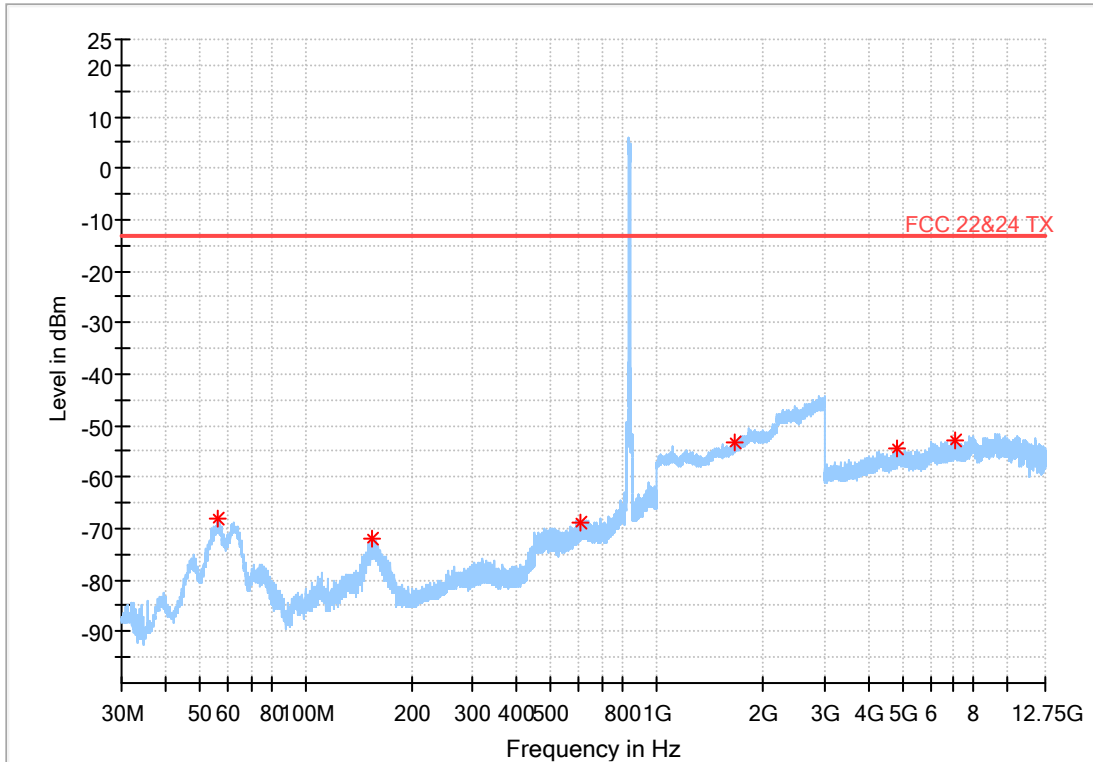
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7.6.1.4. Test Channel = MCH_Horizontal

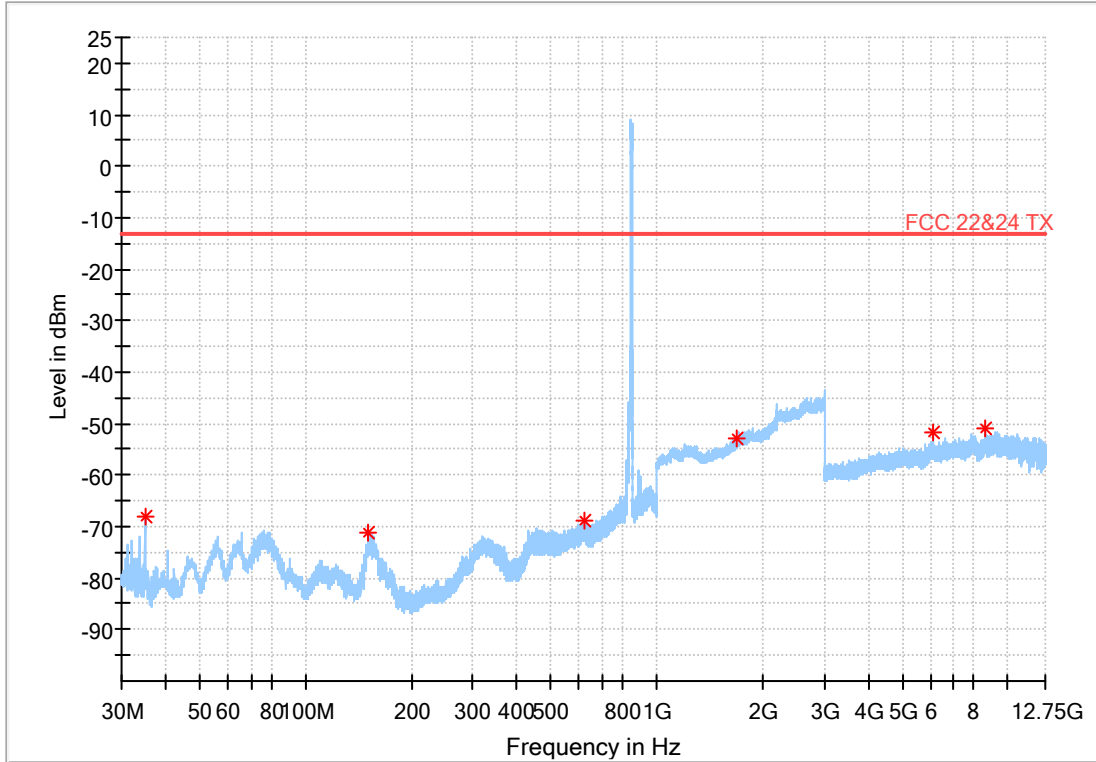
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7.6.1.5. Test Channel = HCH_Vertical

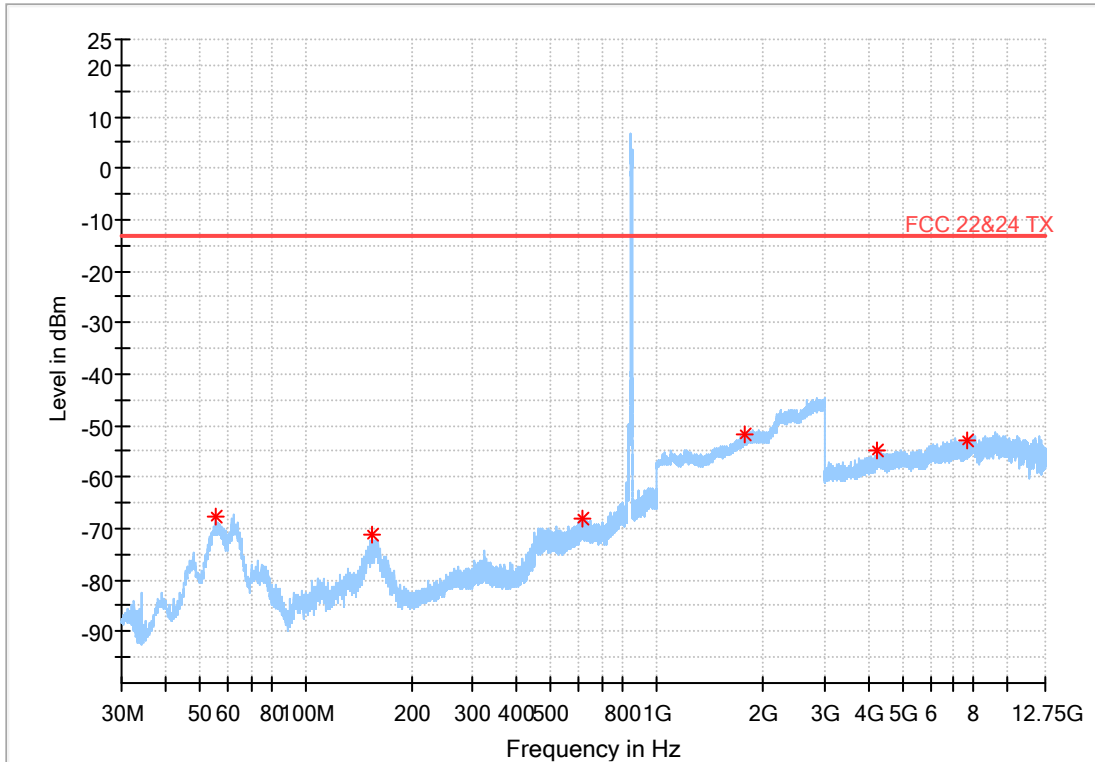
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7.6.1.6. Test Channel = HCH_ Horizontal

Full Spectrum



Remark:

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

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

BAND	Channel	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		Voltage (Vdc)	Temperature (°C)				
Band II	9262	VL	TN	1.22	0.000656	±2.5	PASS
Band II	9262	VN	TN	1.01	0.000544	±2.5	PASS
Band II	9262	VH	TN	1.75	0.000942	±2.5	PASS
Band II	9400	VL	TN	-0.74	-0.000396	±2.5	PASS
Band II	9400	VN	TN	-0.77	-0.000411	±2.5	PASS
Band II	9400	VH	TN	-1.08	-0.000574	±2.5	PASS
Band II	9538	VL	TN	-1.80	-0.000945	±2.5	PASS
Band II	9538	VN	TN	-0.94	-0.000495	±2.5	PASS
Band II	9538	VH	TN	-2.75	-0.001440	±2.5	PASS
Band IV	1312	VL	TN	-8.18	-0.004778	±2.5	PASS
Band IV	1312	VN	TN	-7.37	-0.004302	±2.5	PASS
Band IV	1312	VH	TN	-4.41	-0.002573	±2.5	PASS
Band IV	1413	VL	TN	-1.99	-0.001148	±2.5	PASS
Band IV	1413	VN	TN	-0.77	-0.000442	±2.5	PASS
Band IV	1413	VH	TN	-1.95	-0.001123	±2.5	PASS
Band IV	1513	VL	TN	-0.59	-0.000339	±2.5	PASS
Band IV	1513	VN	TN	-0.74	-0.000424	±2.5	PASS
Band IV	1513	VH	TN	-0.76	-0.000433	±2.5	PASS
Band V	4132	VL	TN	-0.46	-0.000563	±2.5	PASS
Band V	4132	VN	TN	-0.69	-0.000831	±2.5	PASS
Band V	4132	VH	TN	-0.46	-0.000563	±2.5	PASS
Band V	4182	VL	TN	0.13	0.000154	±2.5	PASS
Band V	4182	VN	TN	-0.15	-0.000180	±2.5	PASS
Band V	4182	VH	TN	-0.44	-0.000522	±2.5	PASS
Band V	4233	VL	TN	-0.21	-0.000245	±2.5	PASS
Band V	4233	VN	TN	-0.22	-0.000262	±2.5	PASS
Band V	4233	VH	TN	-0.33	-0.000389	±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	1.02	0.000552	±2.5	PASS
Band II	9262	VN	-20	1.66	0.000896	±2.5	PASS
Band II	9262	VN	-10	0.11	0.000058	±2.5	PASS
Band II	9262	VN	0	1.53	0.000826	±2.5	PASS
Band II	9262	VN	10	0.99	0.000533	±2.5	PASS
Band II	9262	VN	20	0.52	0.000282	±2.5	PASS
Band II	9262	VN	30	0.21	0.000116	±2.5	PASS
Band II	9262	VN	40	1.30	0.000703	±2.5	PASS
Band II	9262	VN	50	0.74	0.000398	±2.5	PASS
Band II	9400	VN	-30	-0.86	-0.000457	±2.5	PASS
Band II	9400	VN	-20	-1.56	-0.000829	±2.5	PASS
Band II	9400	VN	-10	-1.62	-0.000864	±2.5	PASS
Band II	9400	VN	0	-1.17	-0.000620	±2.5	PASS
Band II	9400	VN	10	-0.26	-0.000141	±2.5	PASS
Band II	9400	VN	20	-0.67	-0.000354	±2.5	PASS
Band II	9400	VN	30	-0.06	-0.000030	±2.5	PASS
Band II	9400	VN	40	-0.79	-0.000422	±2.5	PASS
Band II	9400	VN	50	-0.47	-0.000251	±2.5	PASS
Band II	9538	VN	-30	-3.20	-0.001680	±2.5	PASS
Band II	9538	VN	-20	-2.48	-0.001301	±2.5	PASS
Band II	9538	VN	-10	-2.50	-0.001312	±2.5	PASS
Band II	9538	VN	0	-1.95	-0.001020	±2.5	PASS
Band II	9538	VN	10	-1.51	-0.000791	±2.5	PASS
Band II	9538	VN	20	-1.62	-0.000847	±2.5	PASS
Band II	9538	VN	30	-2.92	-0.001530	±2.5	PASS
Band II	9538	VN	40	-0.73	-0.000382	±2.5	PASS
Band II	9538	VN	50	-2.70	-0.001414	±2.5	PASS
Band IV	1312	VN	-30	-5.71	-0.003337	±2.5	PASS
Band IV	1312	VN	-20	-5.64	-0.003291	±2.5	PASS
Band IV	1312	VN	-10	-6.01	-0.003509	±2.5	PASS
Band IV	1312	VN	0	-5.36	-0.003129	±2.5	PASS
Band IV	1312	VN	10	-5.29	-0.003087	±2.5	PASS
Band IV	1312	VN	20	-4.36	-0.002544	±2.5	PASS



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Band IV	1312	VN	30	-3.09	-0.001804	±2.5	PASS
Band IV	1312	VN	40	-3.81	-0.002222	±2.5	PASS
Band IV	1312	VN	50	-2.87	-0.001675	±2.5	PASS
Band IV	1413	VN	-30	-1.19	-0.000685	±2.5	PASS
Band IV	1413	VN	-20	-0.41	-0.000239	±2.5	PASS
Band IV	1413	VN	-10	0.59	0.000339	±2.5	PASS
Band IV	1413	VN	0	-1.45	-0.000838	±2.5	PASS
Band IV	1413	VN	10	-0.16	-0.000095	±2.5	PASS
Band IV	1413	VN	20	-0.23	-0.000132	±2.5	PASS
Band IV	1413	VN	30	-0.72	-0.000413	±2.5	PASS
Band IV	1413	VN	40	0.09	0.000050	±2.5	PASS
Band IV	1413	VN	50	-0.41	-0.000235	±2.5	PASS
Band IV	1513	VN	-30	-1.42	-0.000808	±2.5	PASS
Band IV	1513	VN	-20	-0.31	-0.000180	±2.5	PASS
Band IV	1513	VN	-10	-1.39	-0.000796	±2.5	PASS
Band IV	1513	VN	0	-0.58	-0.000331	±2.5	PASS
Band IV	1513	VN	10	-0.70	-0.000400	±2.5	PASS
Band IV	1513	VN	20	-0.87	-0.000494	±2.5	PASS
Band IV	1513	VN	30	-1.54	-0.000882	±2.5	PASS
Band IV	1513	VN	40	-0.84	-0.000482	±2.5	PASS
Band IV	1513	VN	50	-1.17	-0.000669	±2.5	PASS
Band V	4132	VN	-30	-1.25	-0.001515	±2.5	PASS
Band V	4132	VN	-20	-0.63	-0.000762	±2.5	PASS
Band V	4132	VN	-10	-0.43	-0.000519	±2.5	PASS
Band V	4132	VN	0	-0.82	-0.000987	±2.5	PASS
Band V	4132	VN	10	-0.99	-0.001194	±2.5	PASS
Band V	4132	VN	20	-0.92	-0.001108	±2.5	PASS
Band V	4132	VN	30	-0.64	-0.000779	±2.5	PASS
Band V	4132	VN	40	-1.32	-0.001601	±2.5	PASS
Band V	4132	VN	50	-0.55	-0.000666	±2.5	PASS
Band V	4182	VN	-30	-0.21	-0.000248	±2.5	PASS
Band V	4182	VN	-20	-0.51	-0.000607	±2.5	PASS
Band V	4182	VN	-10	-0.48	-0.000573	±2.5	PASS
Band V	4182	VN	0	-0.36	-0.000436	±2.5	PASS
Band V	4182	VN	10	0.31	0.000368	±2.5	PASS
Band V	4182	VN	20	-0.16	-0.000197	±2.5	PASS
Band V	4182	VN	30	-0.11	-0.000137	±2.5	PASS
Band V	4182	VN	40	-0.19	-0.000222	±2.5	PASS



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Band V	4182	VN	50	-0.24	-0.000282	±2.5	PASS
Band V	4233	VN	-30	-0.05	-0.000059	±2.5	PASS
Band V	4233	VN	-20	-0.39	-0.000456	±2.5	PASS
Band V	4233	VN	-10	-0.15	-0.000177	±2.5	PASS
Band V	4233	VN	0	0.11	0.000127	±2.5	PASS
Band V	4233	VN	10	-0.65	-0.000769	±2.5	PASS
Band V	4233	VN	20	-0.29	-0.000338	±2.5	PASS
Band V	4233	VN	30	0.12	0.000144	±2.5	PASS
Band V	4233	VN	40	0.06	0.000068	±2.5	PASS
Band V	4233	VN	50	-0.49	-0.000575	±2.5	PASS

The End



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