



Appendix B

WCDMA BAND II & IV & V



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1 Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Main Antenna

Test Band	Test Mode	Test Channel	Measured [dBm]	EIRP[dBm]	Limit[dBm]	Verdict
WCDMA BAND II	UMTS/TM1	LCH	24.38	22.98	33.00	PASS
		MCH	24.36	22.96	33.00	PASS
		HCH	24.22	22.82	33.00	PASS
WCDMA BAND IV	UMTS/TM1	LCH	23.79	22.79	30.00	PASS
		MCH	23.80	22.8	30.00	PASS
		HCH	23.84	22.84	30.00	PASS

Test Band	Test Mode	Test Channel	Measured [dBm]	ERP[dBm]	Limit[dBm]	Verdict
WCDMA BAND V	UMTS/TM1	LCH	24.81	15.86	38.45	PASS
		MCH	24.80	15.85	38.45	PASS
		HCH	24.85	15.9	38.45	PASS

Secondary Antenna

Test Band	Test Mode	Test Channel	Measured [dBm]	EIRP[dBm]	Limit[dBm]	Verdict
WCDMA BAND II	UMTS/TM1	LCH	23.49	20.89	33.00	PASS
		MCH	23.44	20.84	33.00	PASS
		HCH	23.35	20.75	33.00	PASS
WCDMA BAND IV	UMTS/TM1	LCH	22.86	21.06	30.00	PASS
		MCH	22.91	21.11	30.00	PASS
		HCH	22.78	20.98	30.00	PASS

Test Band	Test Mode	Test Channel	Measured [dBm]	ERP[dBm]	Limit[dBm]	Verdict
WCDMA BAND V	UMTS/TM1	LCH	24.03	18.28	38.45	PASS
		MCH	24.05	18.3	38.45	PASS
		HCH	23.95	18.2	38.45	PASS

Remark:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$



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b: SGP=Signal Generator Level



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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA BAND II	UMTS/TM1	LCH	3.04	13	PASS
		MCH	3.01	13	PASS
		HCH	3.16	13	PASS
WCDMA BAND IV	UMTS/TM1	LCH	3.30	13	PASS
		MCH	3.19	13	PASS
		HCH	3.36	13	PASS
WCDMA BAND V	UMTS/TM1	LCH	2.87	13	PASS
		MCH	2.99	13	PASS
		HCH	2.90	13	PASS



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3 Modulation Characteristics

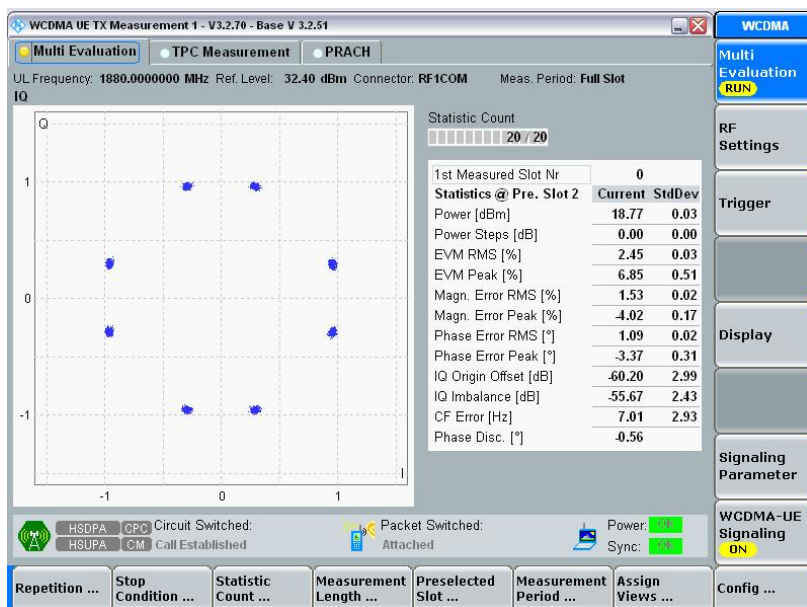
Part I - Test Plots

3.1 For WCDMA

3.1.1 Test Band = WCDMA BAND II

3.1.1.1 Test Mode = UMTS/TM1

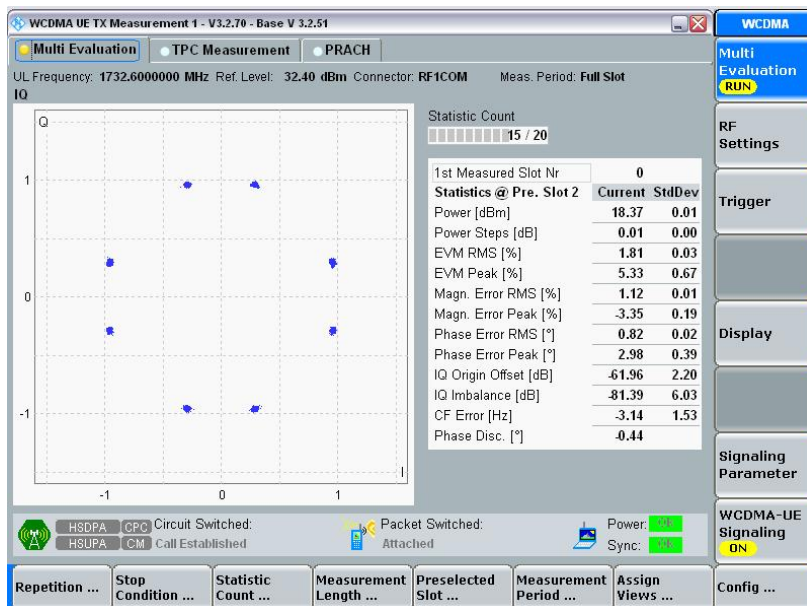
3.1.1.1.1 Test Channel = MCH



3.1.2 Test Band = WCDMA BAND IV

3.1.2.1 Test Mode = UMTS /TM1

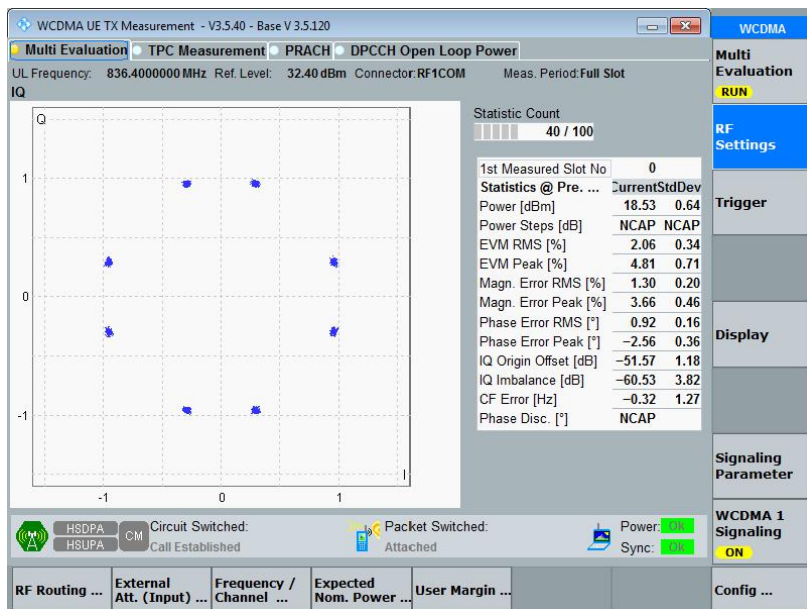
3.1.2.1.1 Test Channel = MCH



3.1.3 Test Band = WCDMA BAND V

3.1.3.1 Test Mode = UMTS /TM1

3.1.3.1.1 Test Channel = MCH



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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
WCDMA BAND II	UMTS/TM1	LCH	4167.9	4739	PASS
		MCH	4167.9	4725	PASS
		HCH	4153.4	4739	PASS
WCDMA BAND IV	UMTS/TM1	LCH	4153.4	4725	PASS
		MCH	4153.4	4725	PASS
		HCH	4167.9	4725	PASS
WCDMA BAND V	UMTS/TM1	LCH	4167.9	4754	PASS
		MCH	4153.4	4725	PASS
		HCH	4138.9	4739	PASS

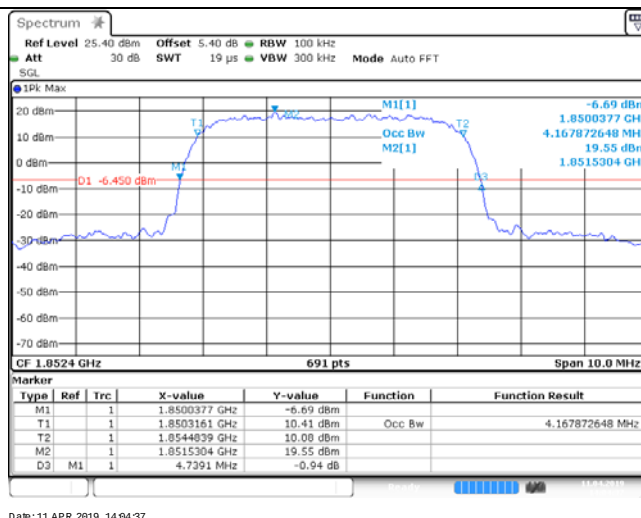


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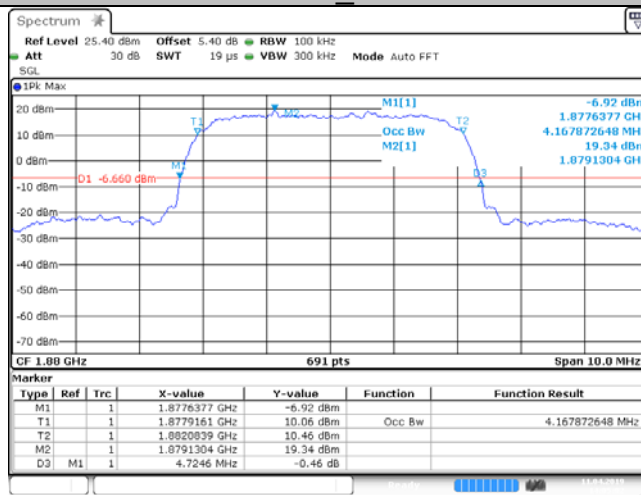
4.1 For WCDMA

4.1.1 Test Graphs



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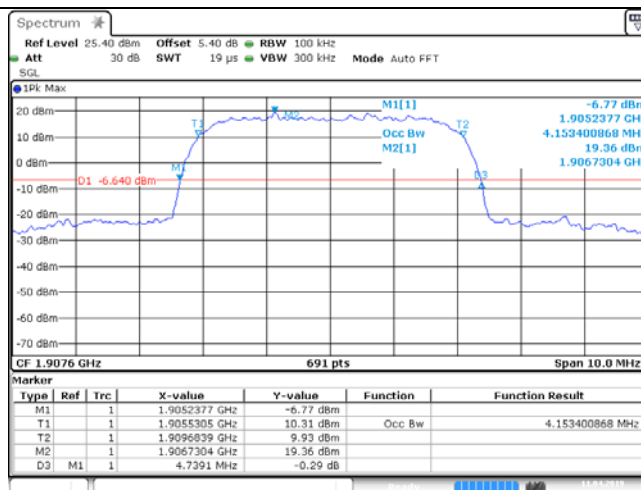
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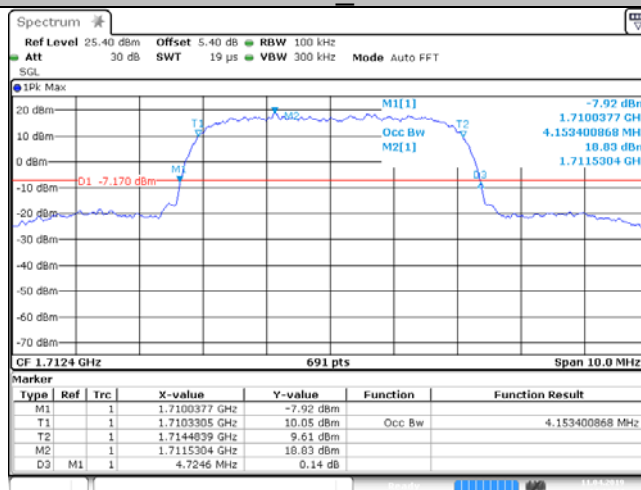
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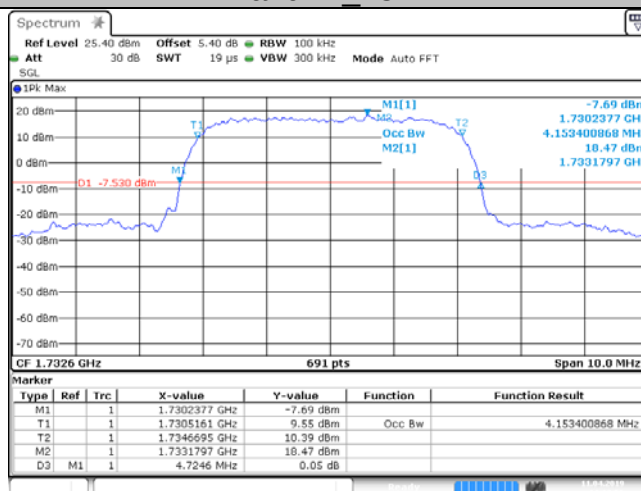
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Band II_9538



Date: 11 APR 2019 14:13:25

Band IV_1312



Date: 11 APR 2019 14:13:56

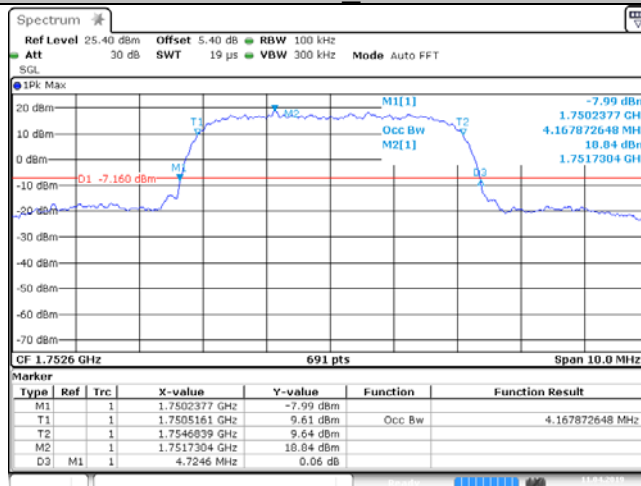


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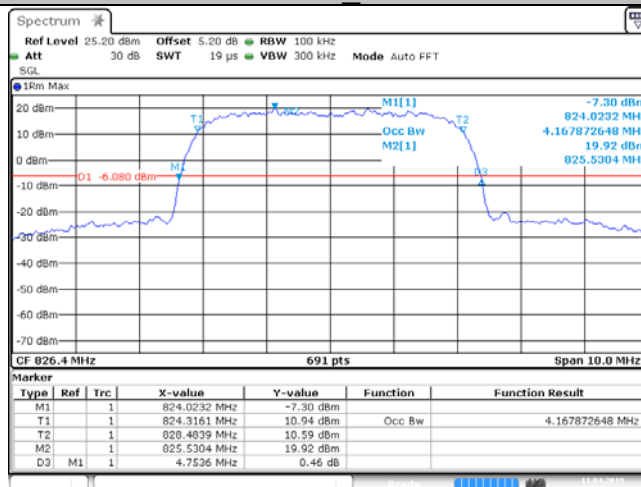
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Band IV_1413



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Band IV_1513



Date: 11 APR 2019 14:23:09

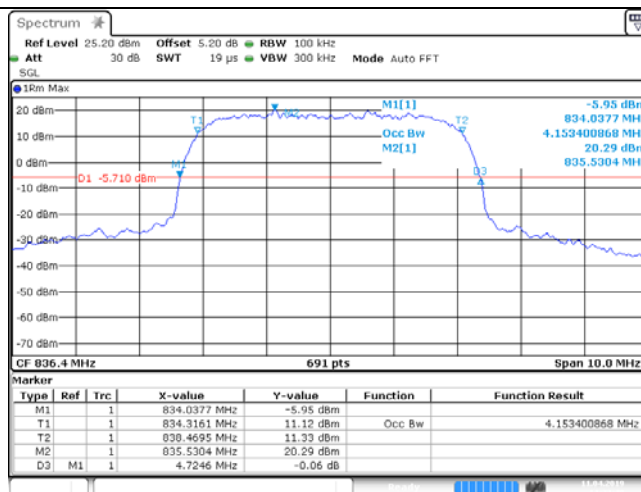
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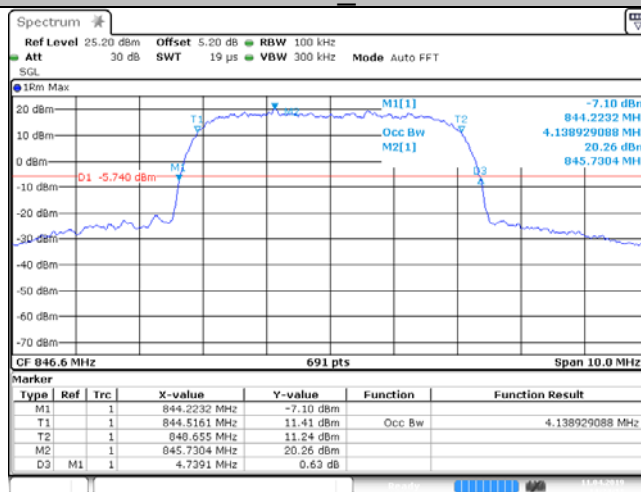
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Band V 4182



Date: 11 APR 2019 14:24:11

Band V 4233

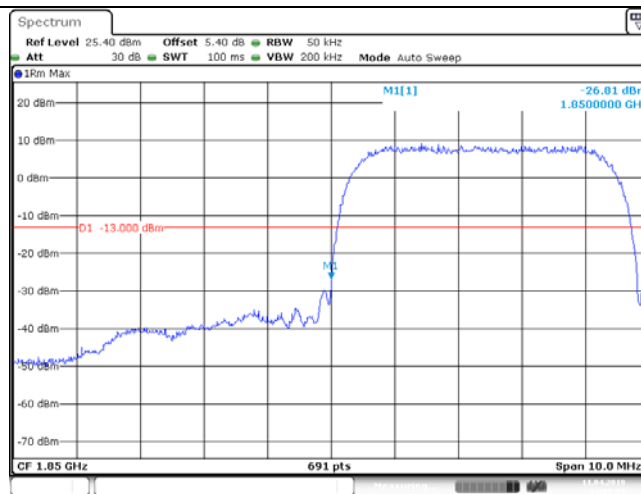


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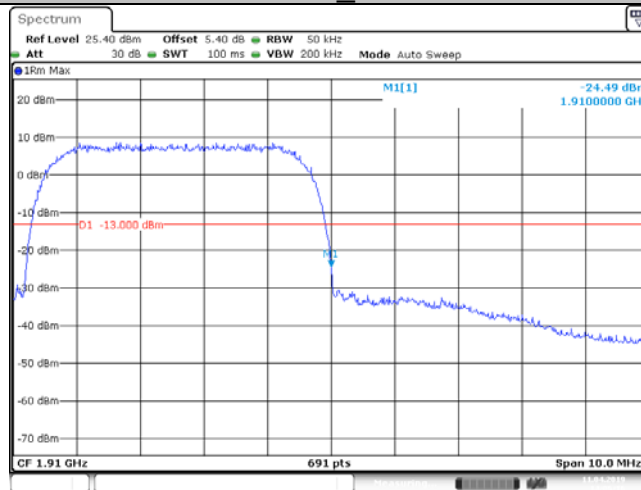
5 Band Edges Compliance

5.1 Test Graphs



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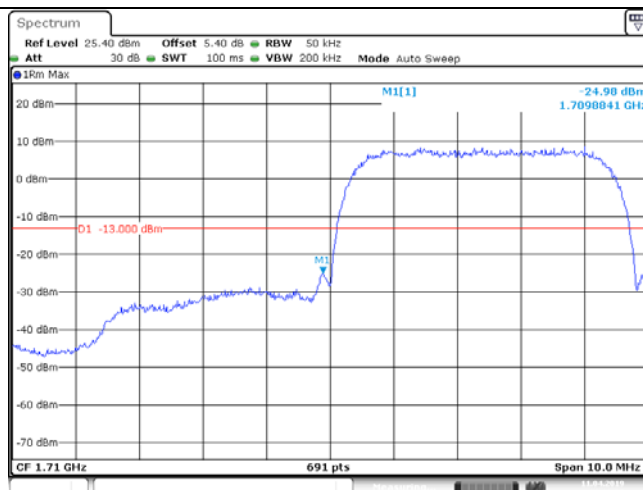
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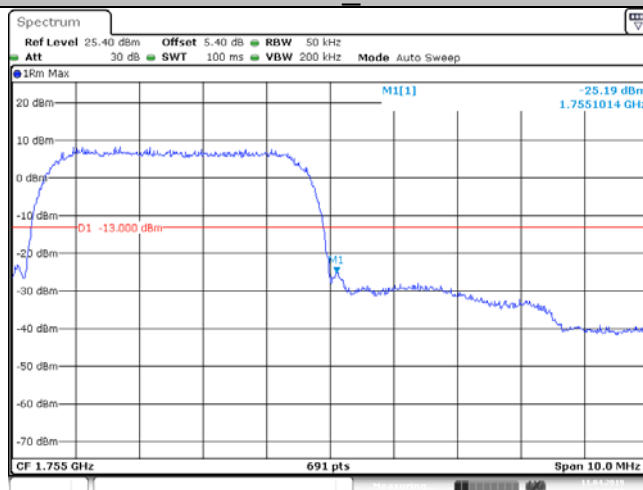
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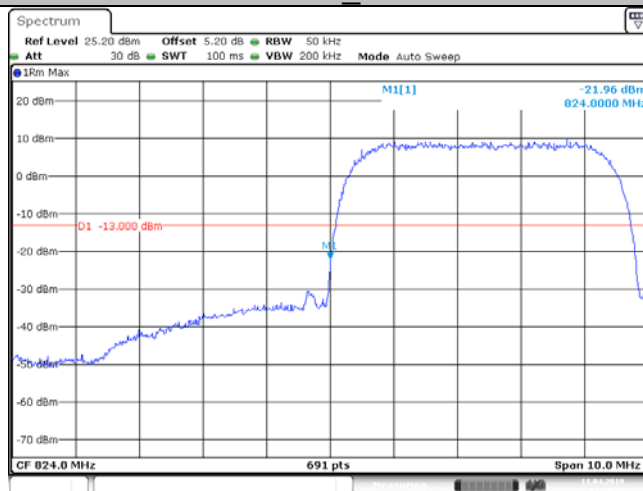
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Band IV_1312



Date: 11 APR 2019 14:19:58

Band IV_1513



Date: 11 APR 2019 14:24:42

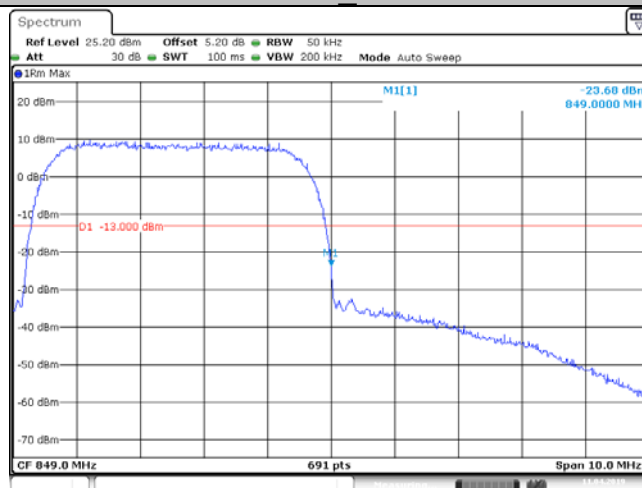


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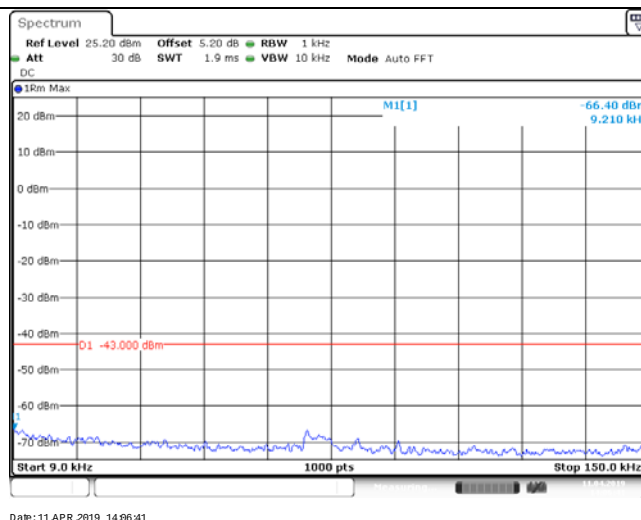
6 Spurious Emission at Antenna Terminal

REMARK: 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.

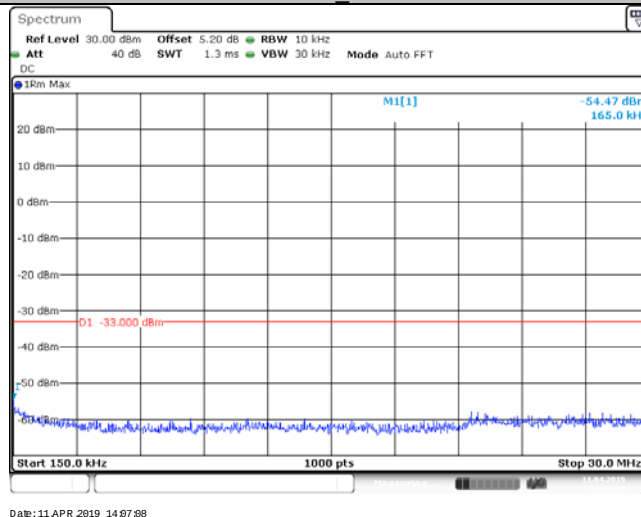
Part I - Test Plots

6.1 For WCDMA

6.2 Test Graphs

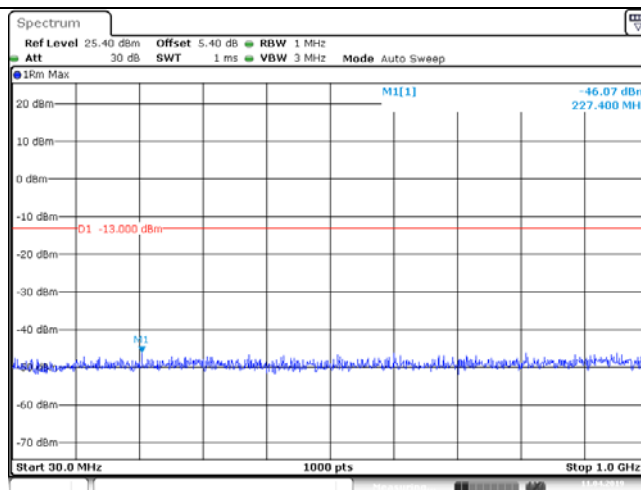


Band II 9262



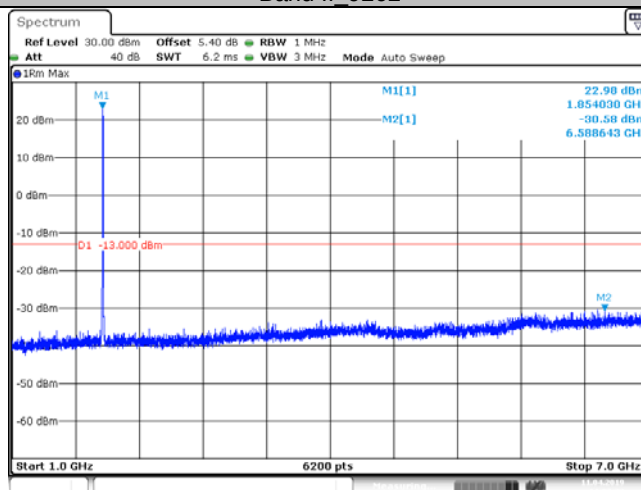
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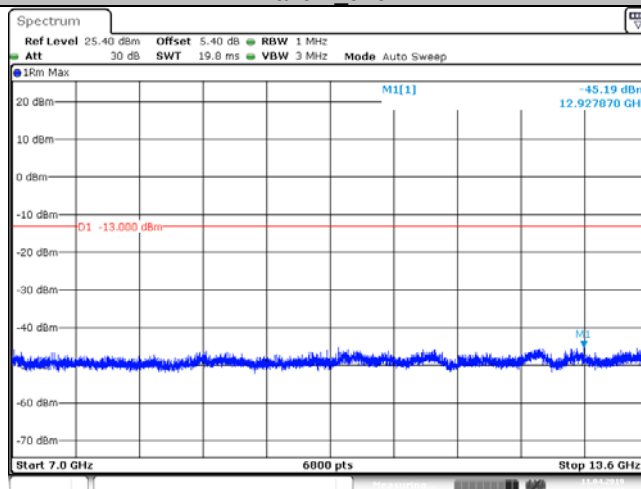
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Band II 9262



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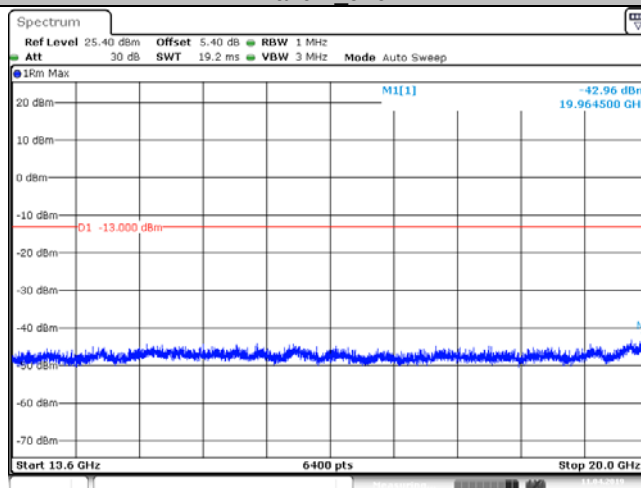
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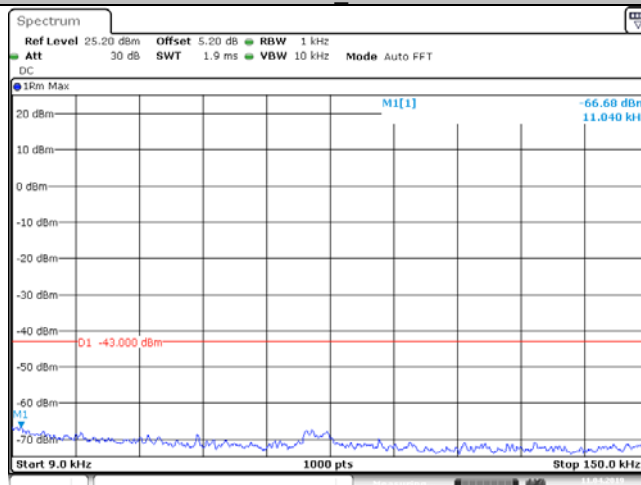


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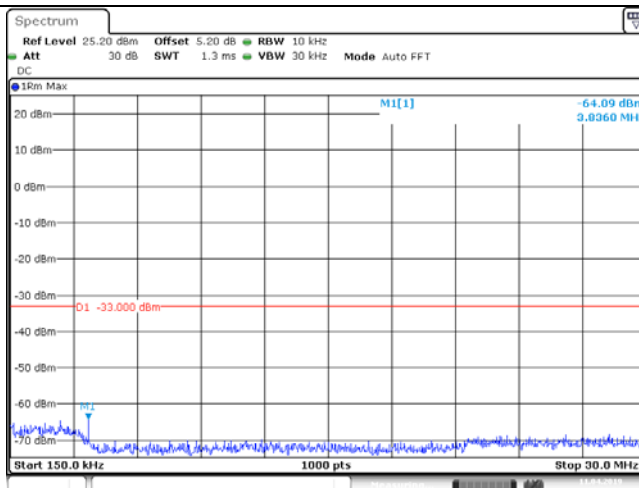
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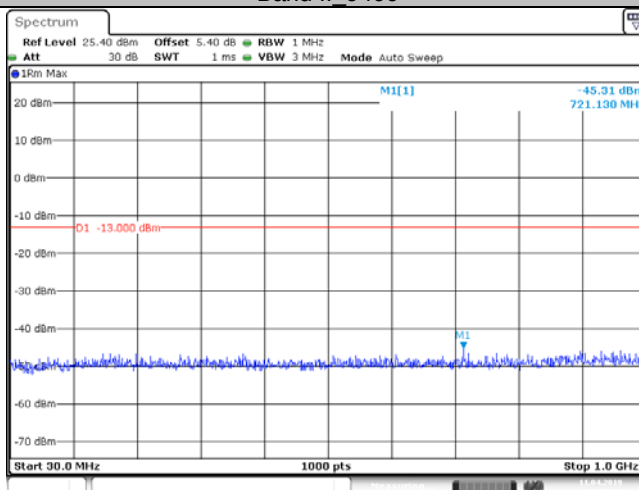
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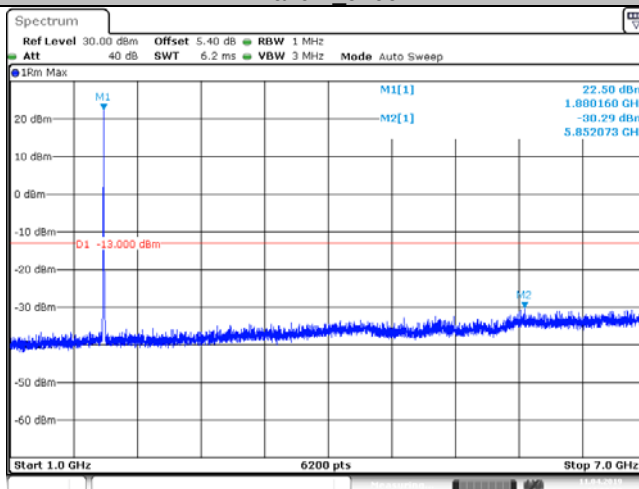
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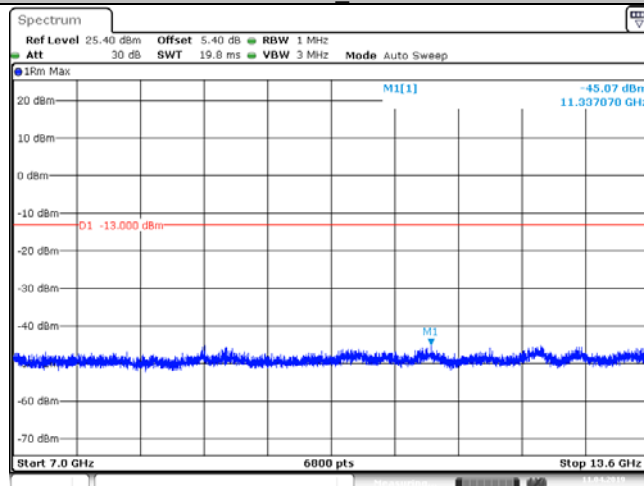
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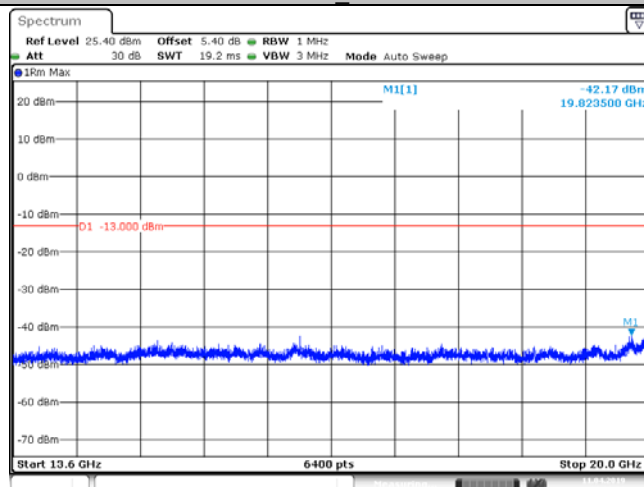


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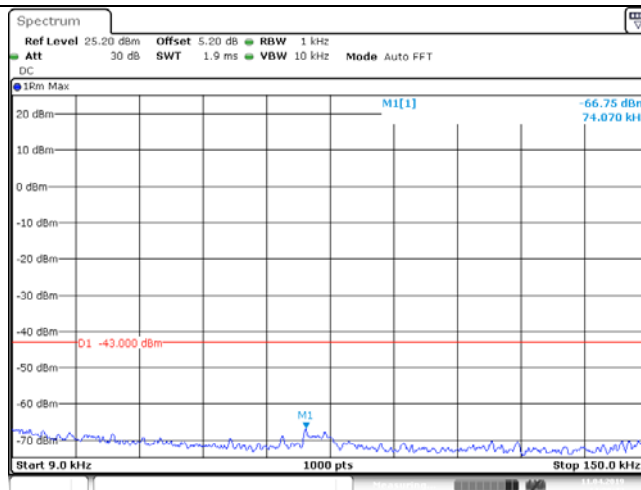
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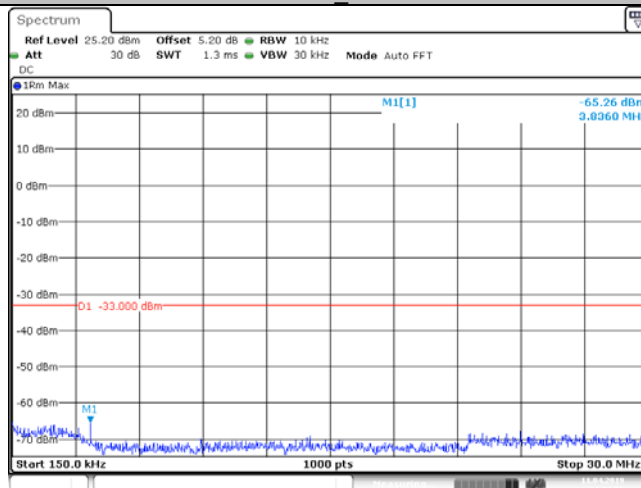
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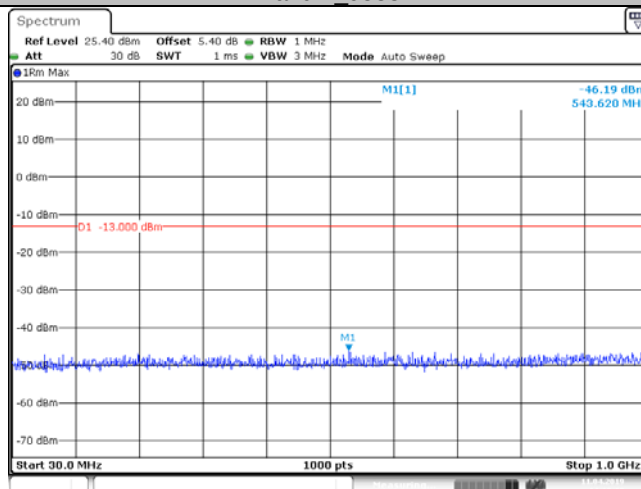
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Band II 9538



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Band II 9538



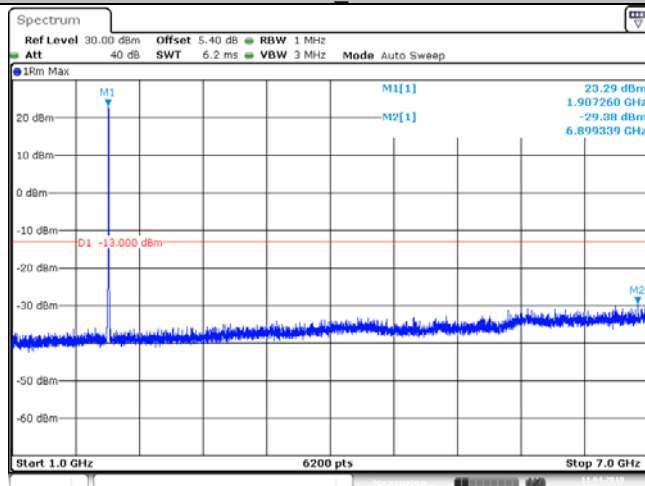
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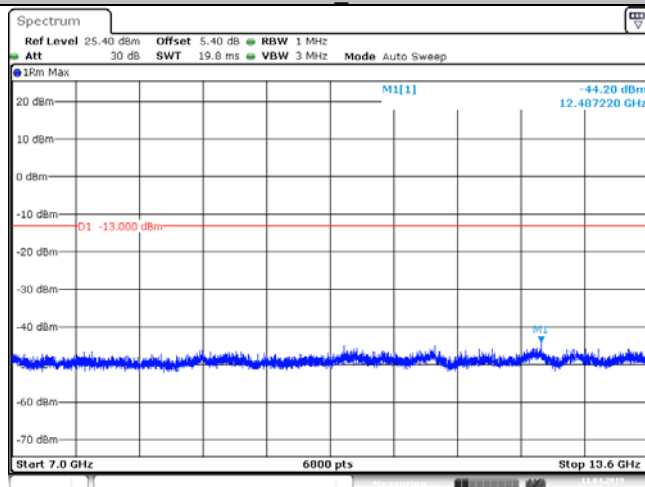
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Band II_9538



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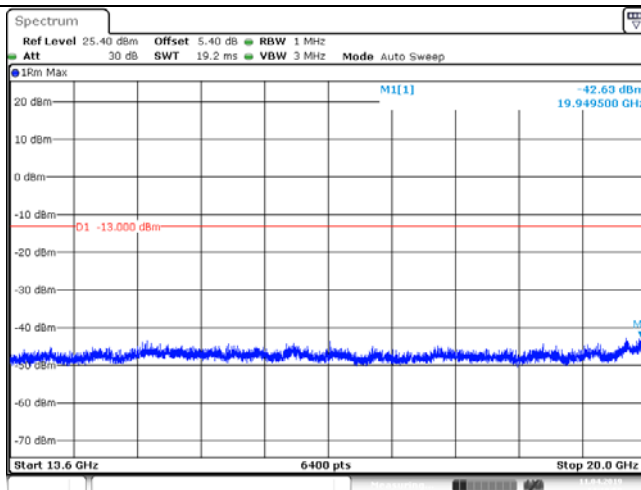
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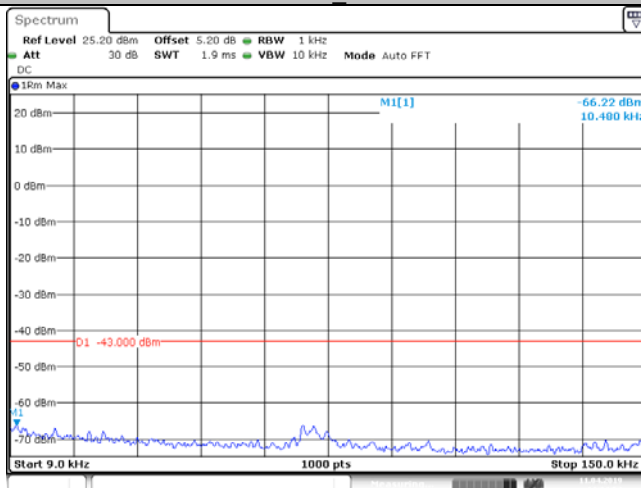
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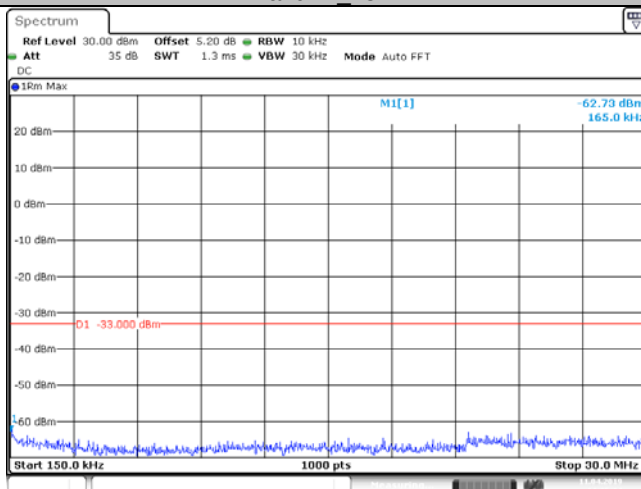
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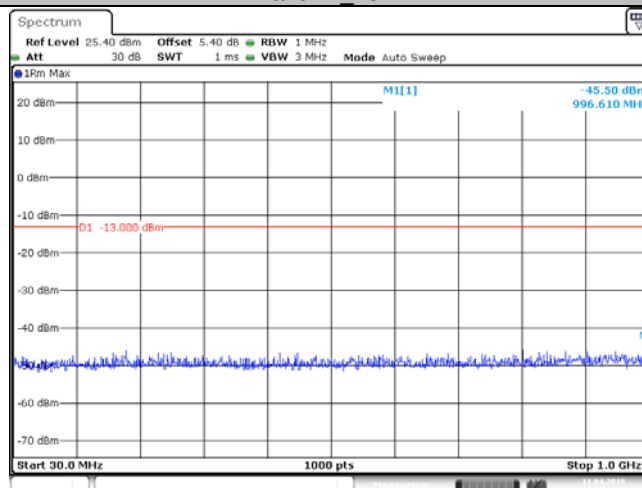
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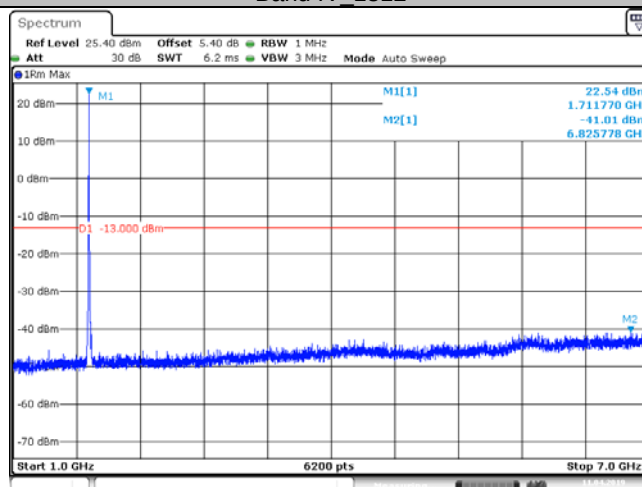


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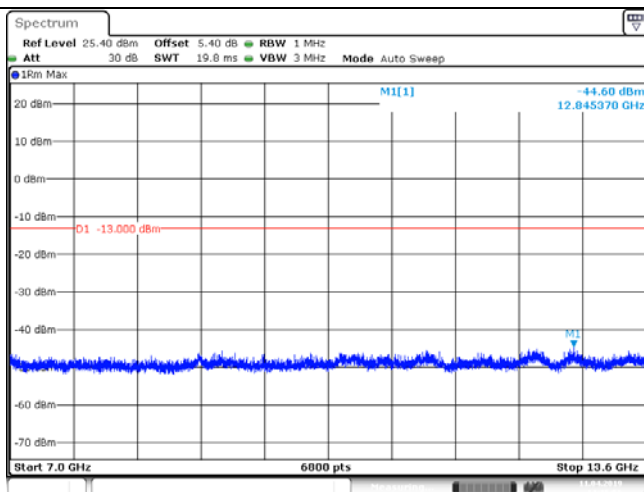
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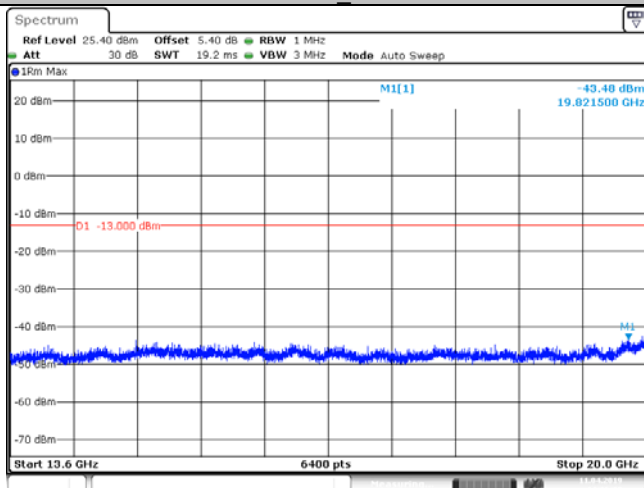
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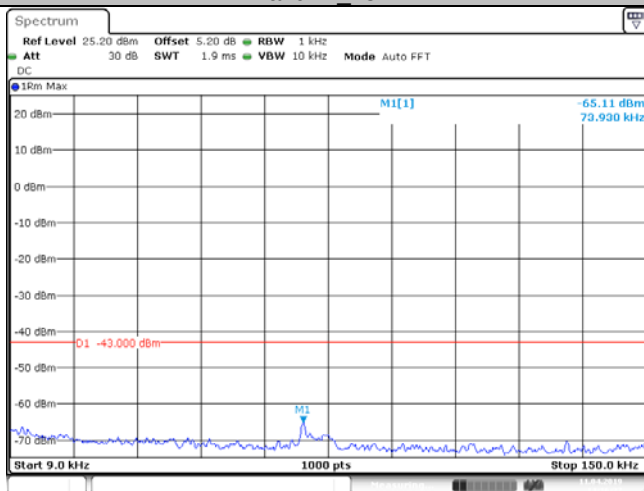
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Band IV 1312



Date: 11 APR 2019 14:16:11

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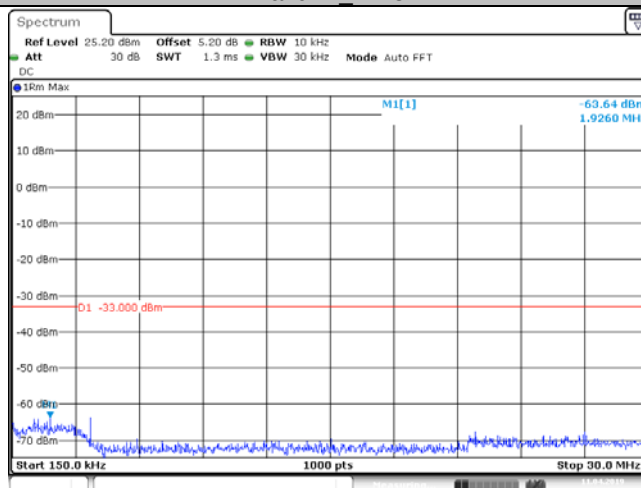
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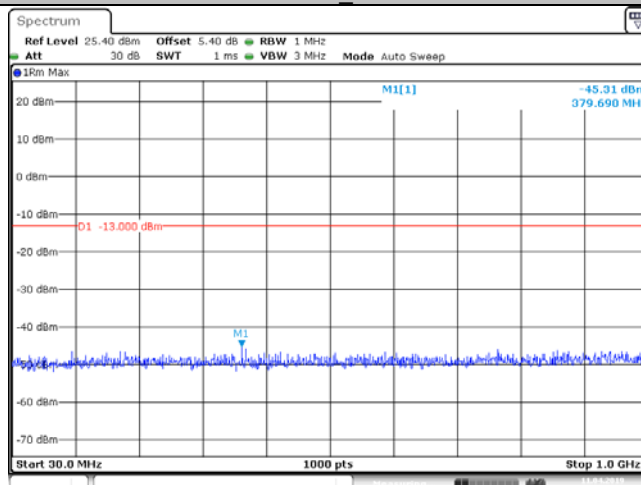
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Band IV_1413



Date: 11 APR 2019 14:16:41

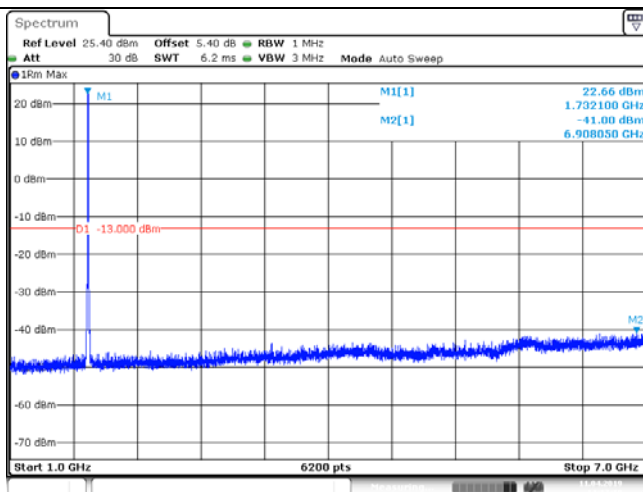
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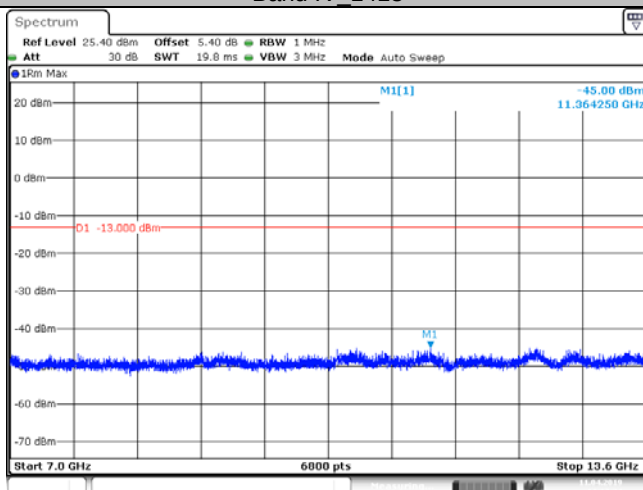
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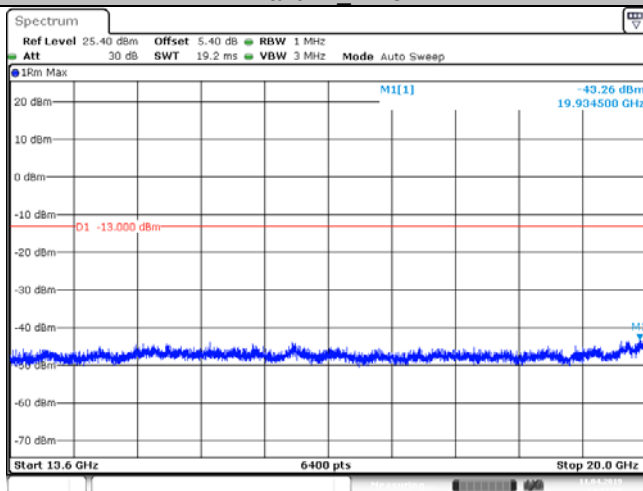
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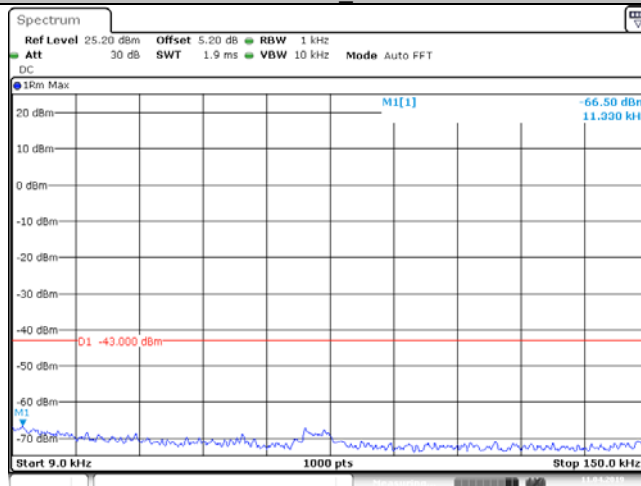
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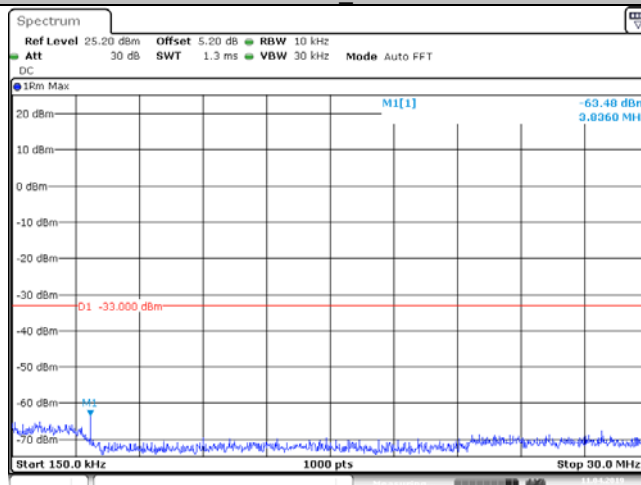


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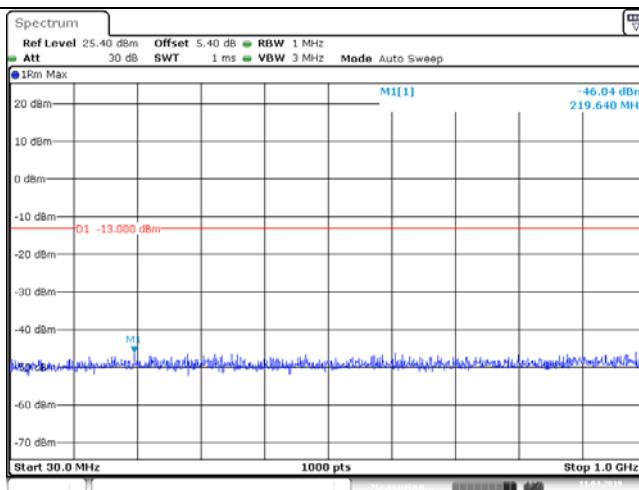
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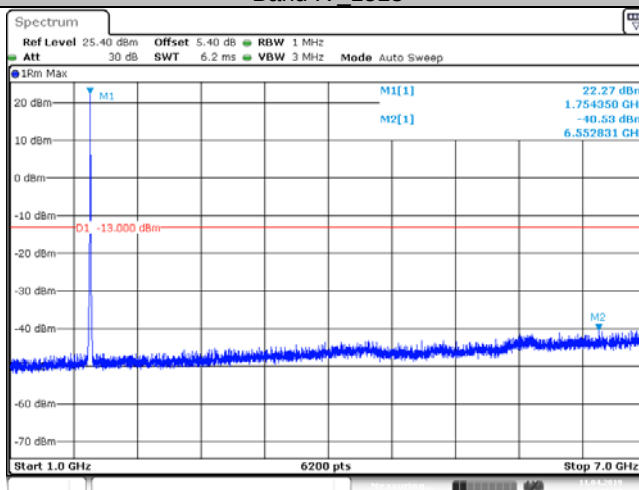
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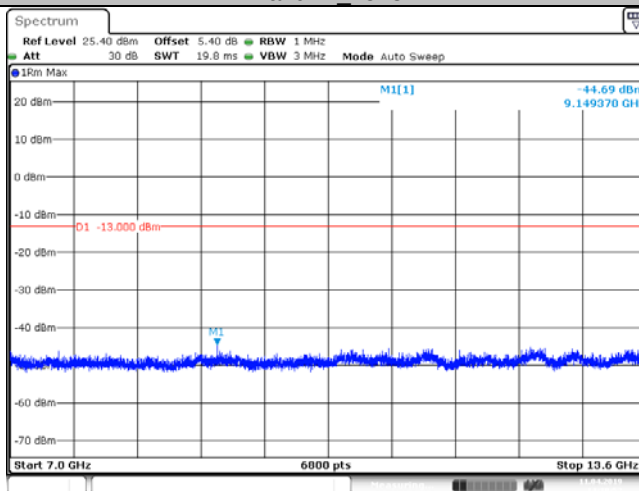
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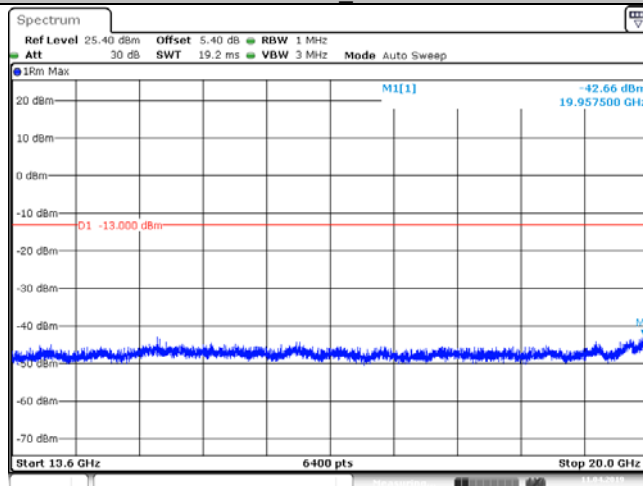
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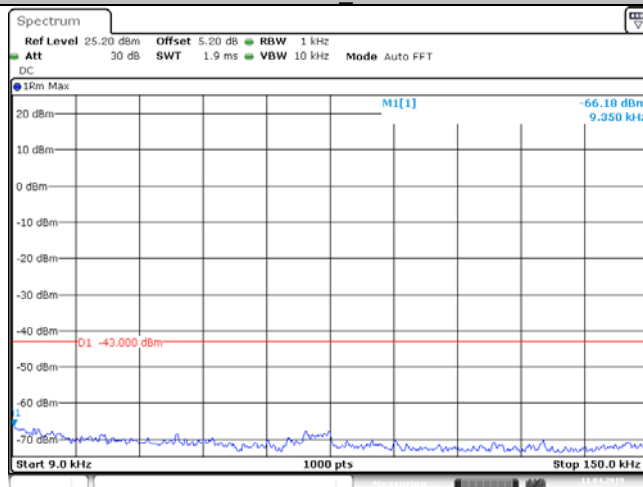
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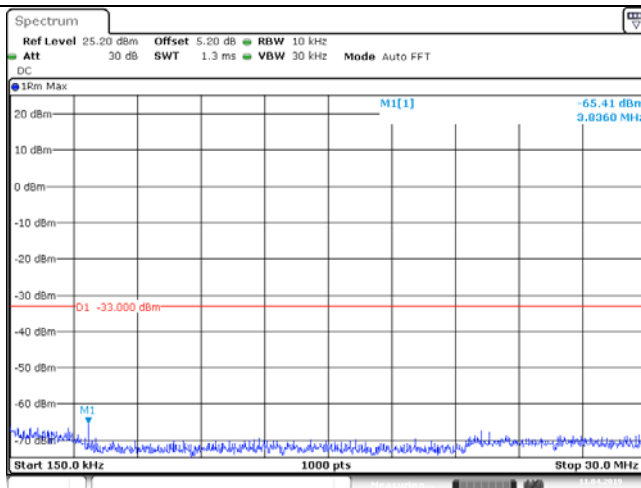
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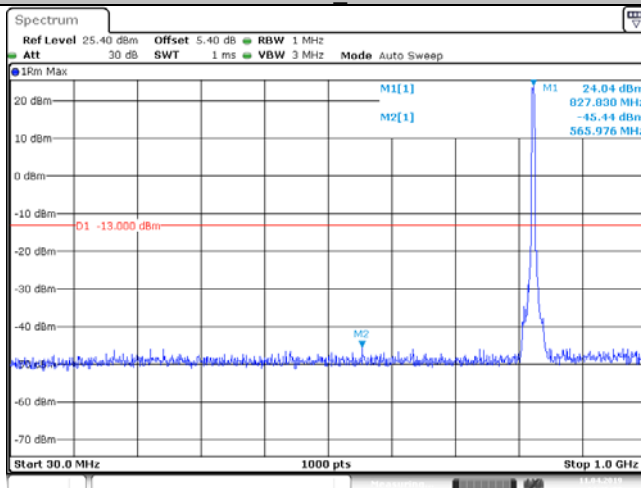
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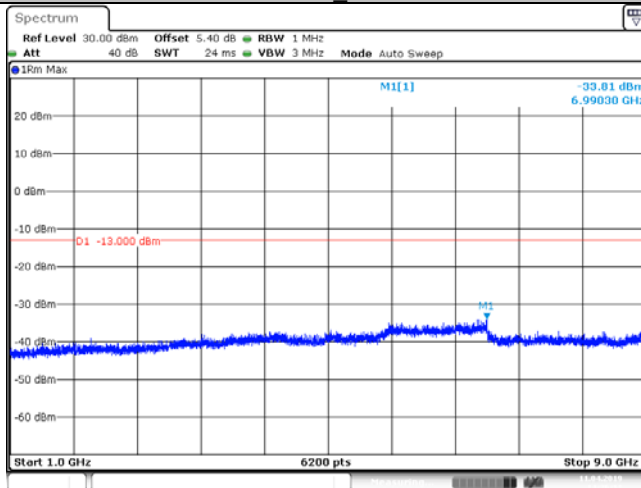
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Band V 4132



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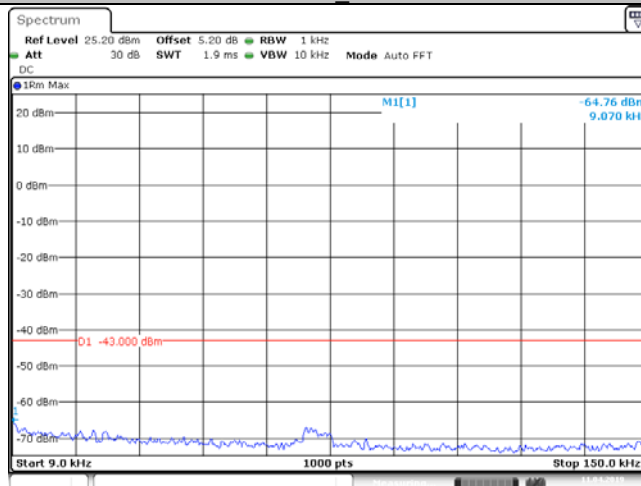
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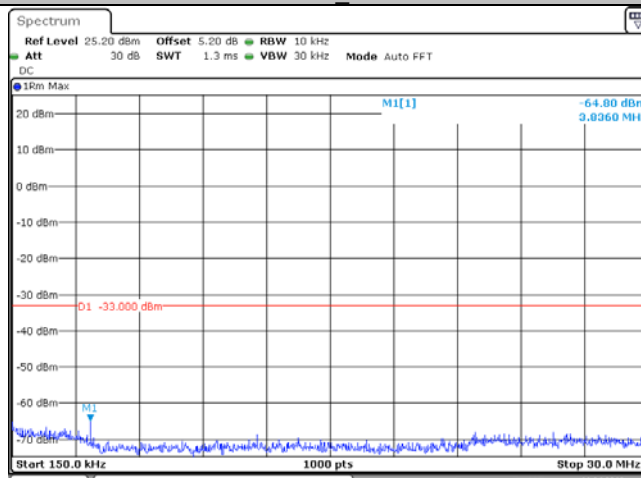
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Date: 11 APR 2019 14:26:27

Band V_4182



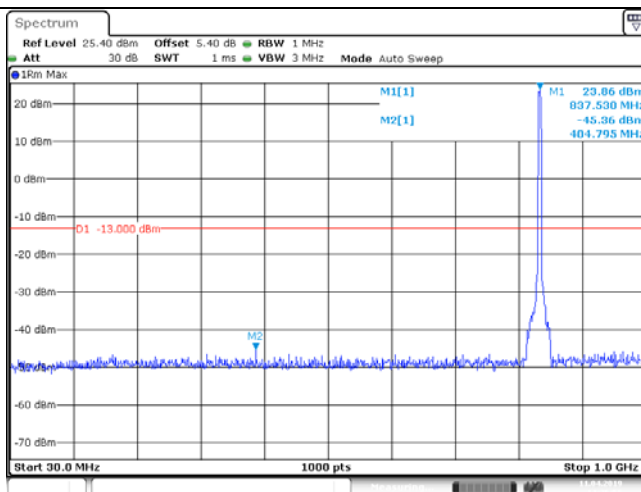
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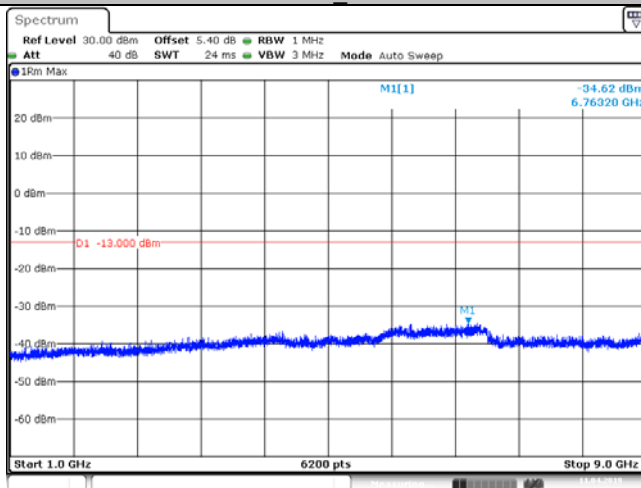
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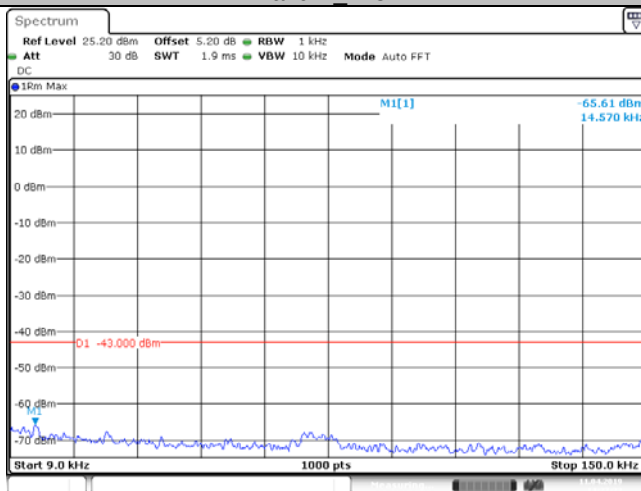
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Band V 4182



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Band V 4182



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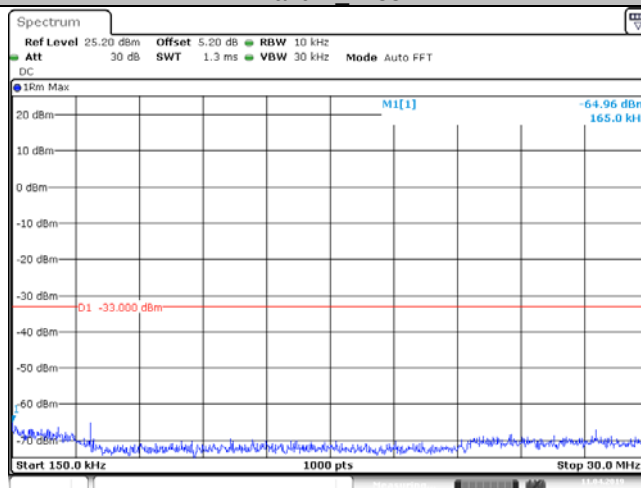
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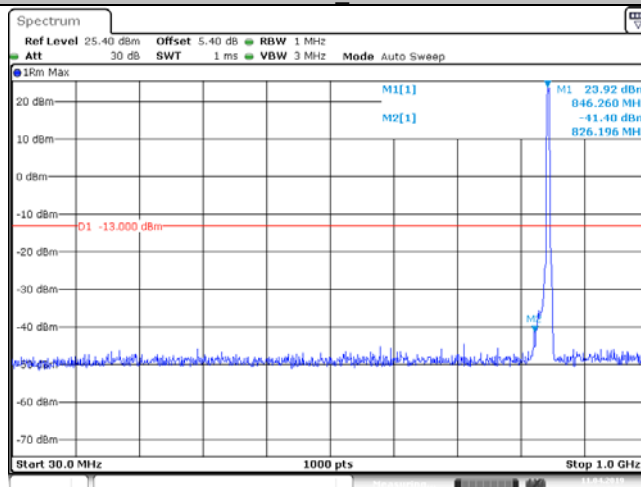
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Band V_4233



Date: 11 APR 2019 14:27:37

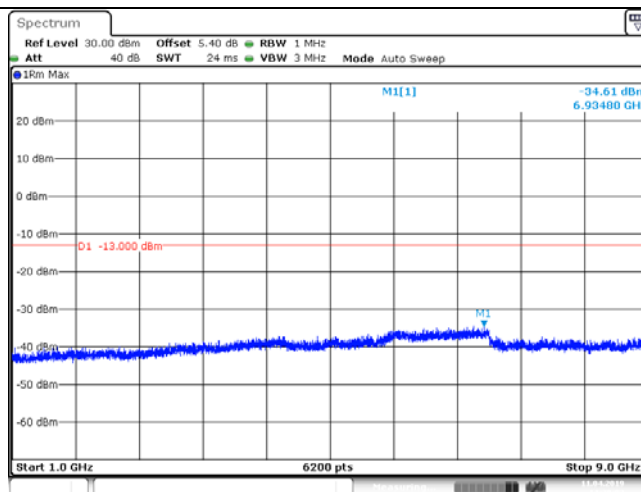
Band V_4233



Date: 11 APR 2019 14:27:52

Band V_4233





Date: 11 APR 2019 14:28:33

Band V 4233



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7 Field Strength of Spurious Radiation

Part I - Test Plots

7.1 For WCDMA

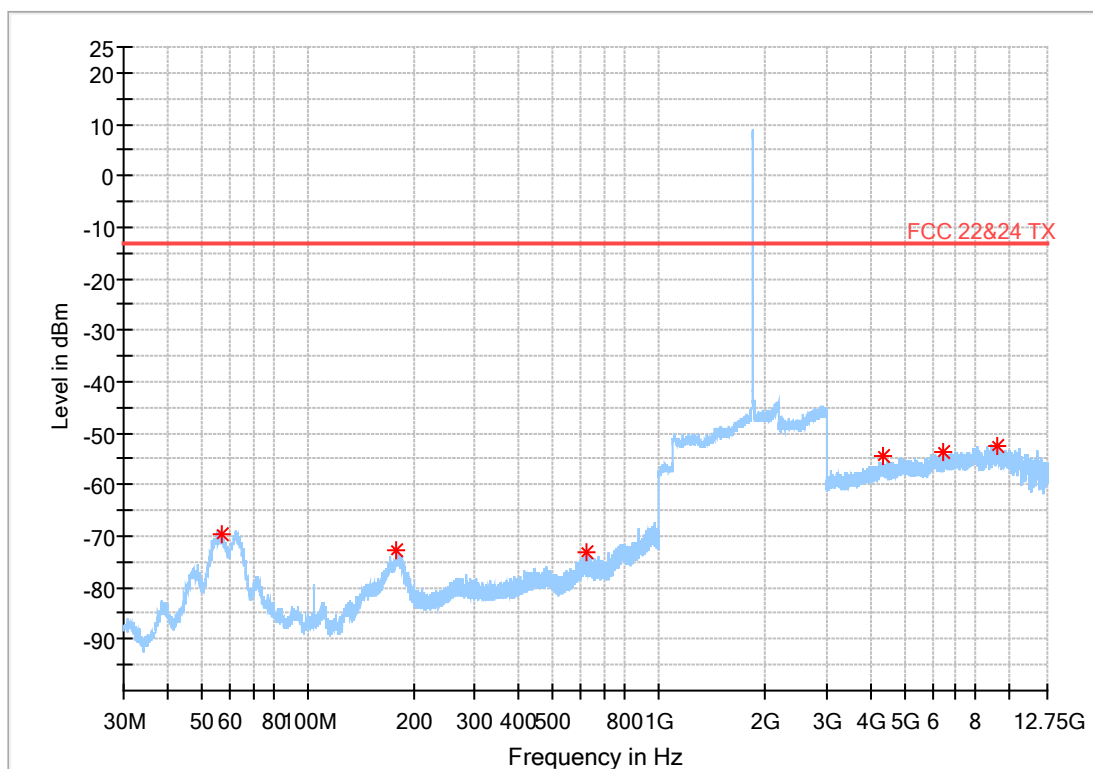
7.1.1 Main Antenna

7.1.1.1 Test Band = WCDMA BAND II

7.1.1.1.1 Test Channel = LCH

7.1.1.1.1.1 Horizontal

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
57.200000	-69.73	-13.00	56.73	---	---	200.0	H	192.0	-96.3
179.750000	-72.61	-13.00	59.61	---	---	200.0	H	53.0	-107.1
620.683333	-73.24	-13.00	60.24	---	---	200.0	H	0.0	-97.9
4358.500000	-54.52	-13.00	41.52	---	---	200.0	H	2.0	-102.7
6412.825000	-53.76	-13.00	40.76	---	---	200.0	H	0.0	-99.9
9222.775000	-52.37	-13.00	39.37	---	---	200.0	H	2.0	-96.9



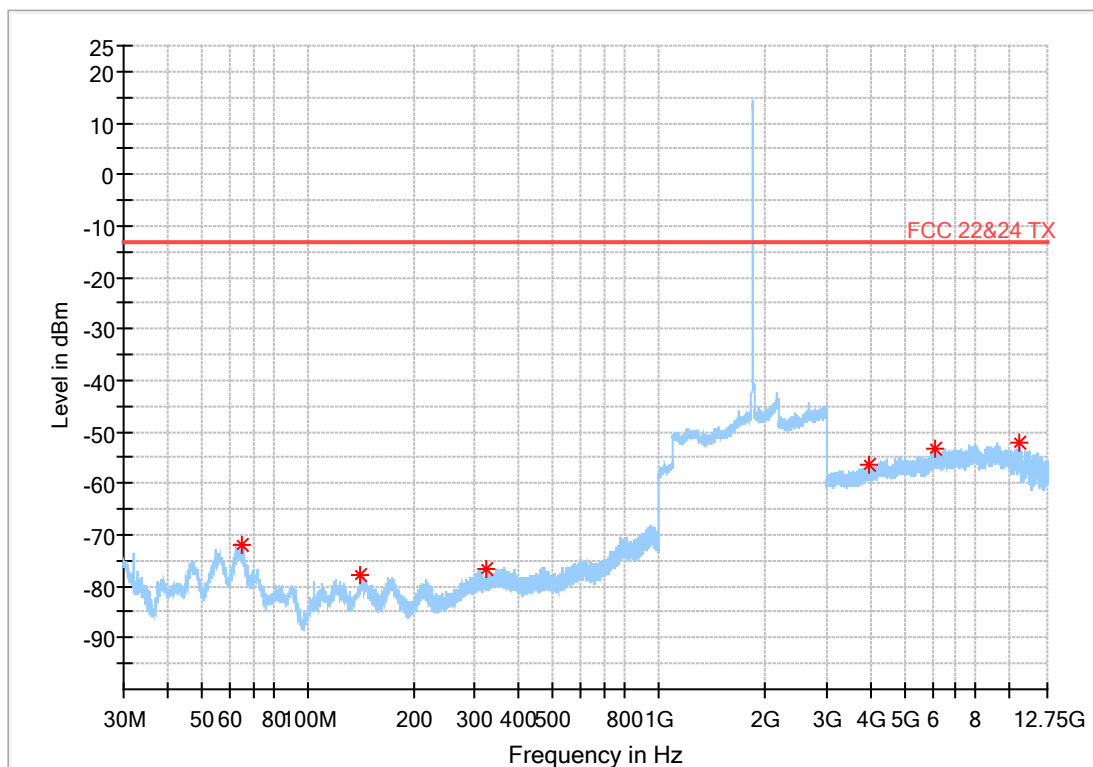
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7.1.1.1.1.2 Vertical

Full Spectrum



Critical_Freqs

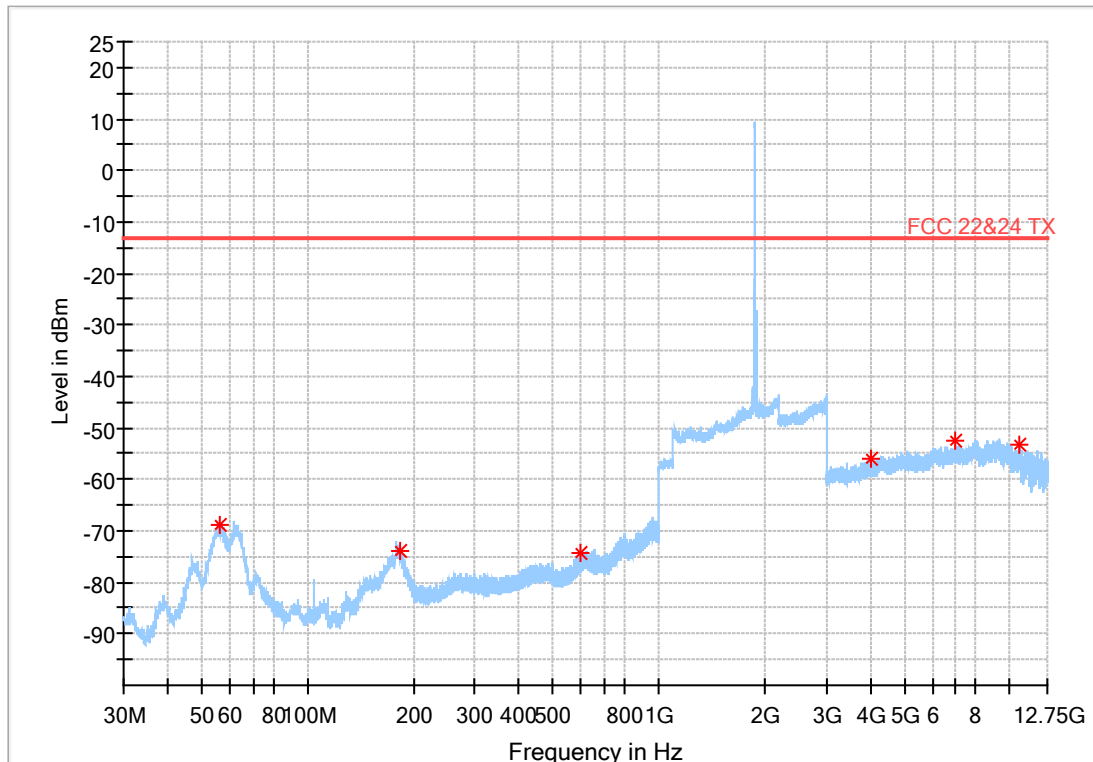
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.850000	-72.03	-13.00	59.03	---	---	200.0	V	263.0	-99.8
142.050000	-77.94	-13.00	64.94	---	---	200.0	V	0.0	-109.1
324.750000	-76.78	-13.00	63.78	---	---	200.0	V	310.0	-102.0
3967.850000	-56.30	-13.00	43.30	---	---	200.0	V	1.0	-103.6
6085.225000	-53.31	-13.00	40.31	---	---	200.0	V	211.0	-99.8
10651.150000	-52.21	-13.00	39.21	---	---	200.0	V	1.0	-96.2



7.1.1.1.2 Test Channel = MCH

7.1.1.1.2.1 Horizontal

Full Spectrum



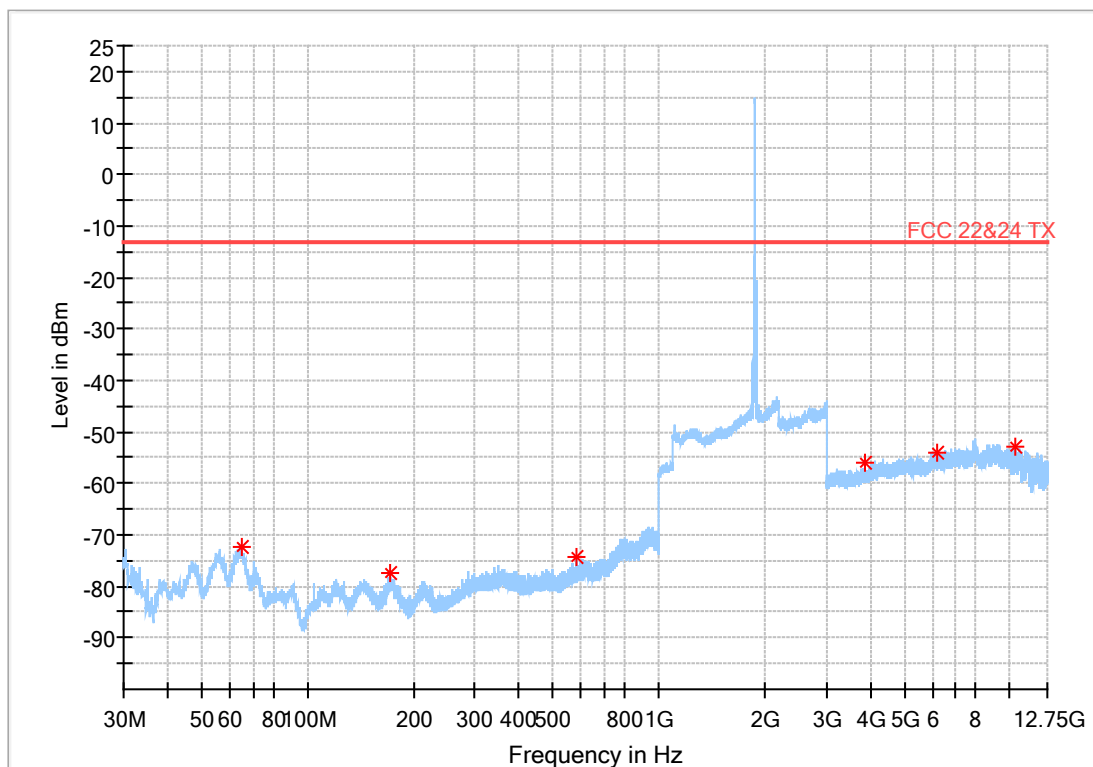
Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.600000	-68.83	-13.00	55.83	---	---	200.0	H	0.0	-96.7
183.300000	-73.93	-13.00	60.93	---	---	200.0	H	53.0	-107.0
601.570833	-74.34	-13.00	61.34	---	---	200.0	H	113.0	-98.9
4021.475000	-56.12	-13.00	43.12	---	---	200.0	H	0.0	-103.6
6949.400000	-52.62	-13.00	39.62	---	---	200.0	H	0.0	-99.3
10631.650000	-53.08	-13.00	40.08	---	---	200.0	H	0.0	-96.4



7.1.1.1.2.2 Vertical

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
65.300000	-72.40	-13.00	59.40	---	---	200.0	V	0.0	-99.7
171.500000	-77.29	-13.00	64.29	---	---	200.0	V	286.0	-108.8
581.450000	-74.30	-13.00	61.30	---	---	200.0	V	188.0	-100.0
3842.400000	-56.00	-13.00	43.00	---	---	200.0	V	0.0	-104.1
6231.150000	-54.03	-13.00	41.03	---	---	200.0	V	1.0	-100.0
10309.900000	-53.04	-13.00	40.04	---	---	200.0	V	1.0	-96.5



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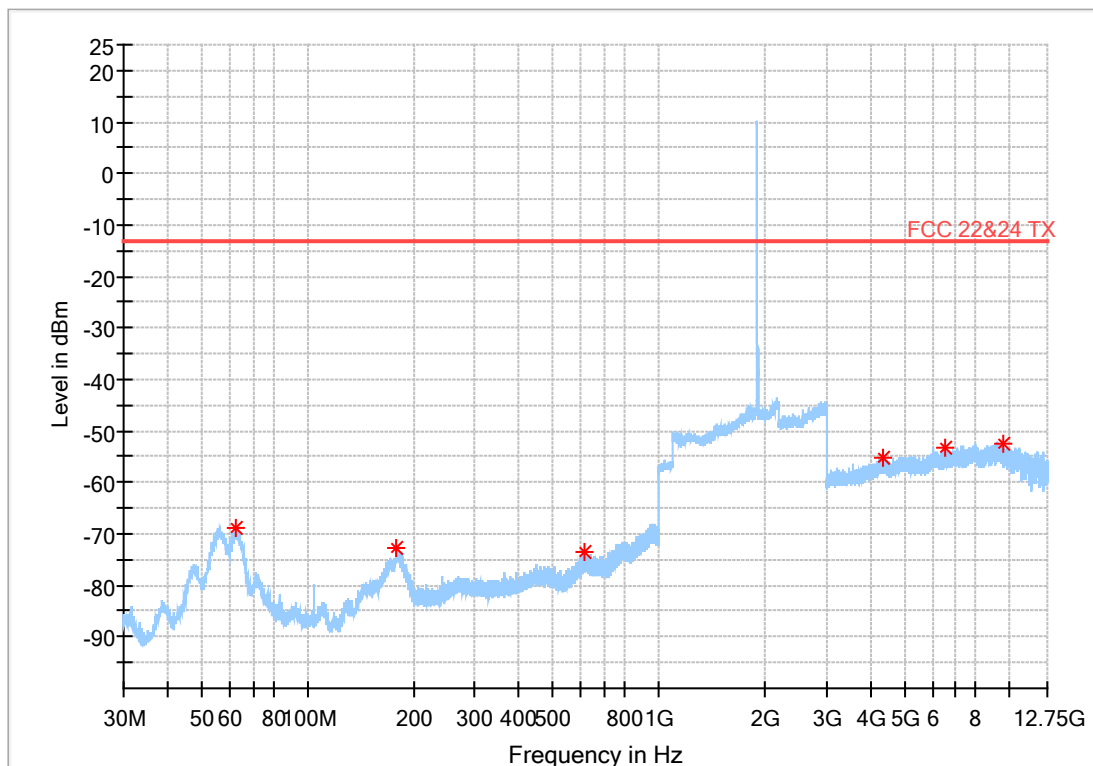
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7.1.1.1.3 Test Channel = HCH

7.1.1.1.3.1 Horizontal

Full Spectrum



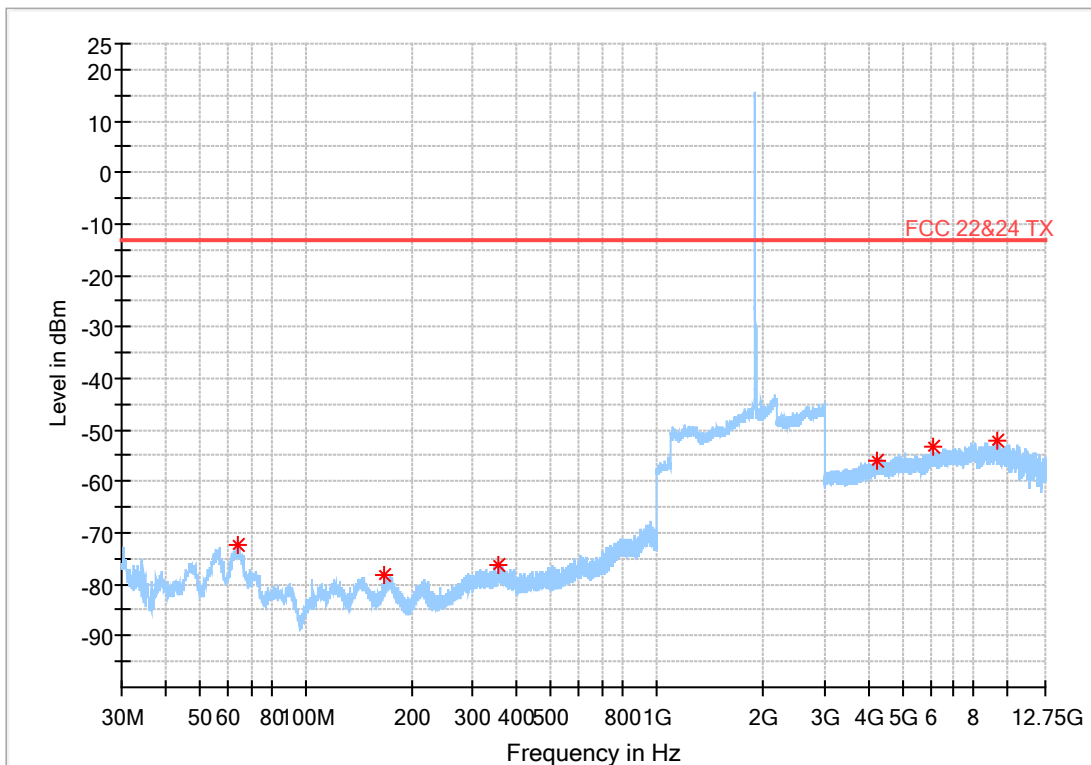
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.750000	-68.78	-13.00	55.78	---	---	200.0	H	145.0	-95.4
179.200000	-72.62	-13.00	59.62	---	---	200.0	H	51.0	-107.2
611.929167	-73.59	-13.00	60.59	---	---	200.0	H	152.0	-98.2
4331.525000	-55.29	-13.00	42.29	---	---	200.0	H	0.0	-102.6
6486.925000	-53.23	-13.00	40.23	---	---	200.0	H	212.0	-99.4
9572.475000	-52.63	-13.00	39.63	---	---	200.0	H	1.0	-97.4



7.1.1.1.3.2 Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.850000	-72.51	-13.00	59.51	---	---	200.0	V	239.0	-100.0
168.450000	-78.36	-13.00	65.36	---	---	200.0	V	311.0	-108.7
355.600000	-76.39	-13.00	63.39	---	---	200.0	V	287.0	-101.3
421.3225000	-55.97	-13.00	42.97	---	---	200.0	V	212.0	-103.2
6092.050000	-53.42	-13.00	40.42	---	---	200.0	V	212.0	-99.8
9243.900000	-52.00	-13.00	39.00	---	---	200.0	V	1.0	-97.0

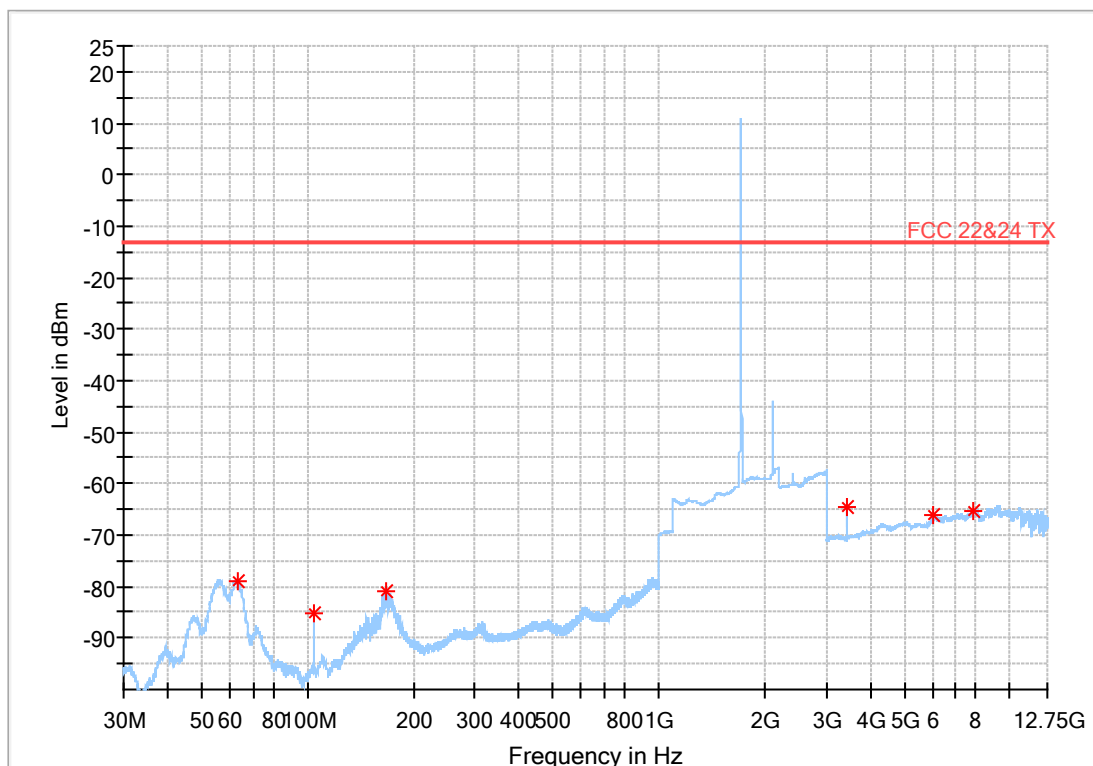


7.1.1.2 Test Band = WCDMA BAND IV

7.1.1.2.1 Test Channel = LCH

7.1.1.2.1.1 Horizontal

Full Spectrum



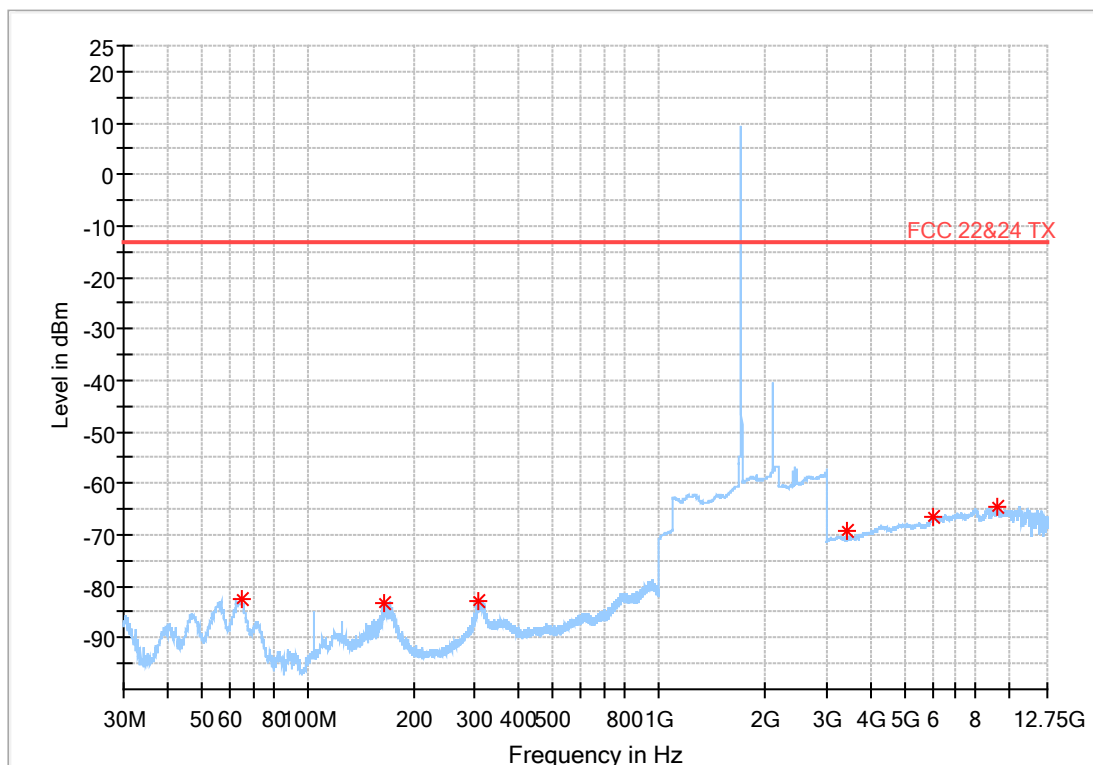
Critical_Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.550000	-78.95	-13.00	65.95	---	---	200.0	H	330.0	-96.2
104.300000	-85.30	-13.00	72.30	---	---	200.0	H	1.0	-109.6
168.150000	-80.96	-13.00	67.96	---	---	200.0	H	190.0	-107.3
3422.825000	-64.51	-13.00	51.51	---	---	200.0	H	0.0	-105.7
6049.800000	-66.15	-13.00	53.15	---	---	200.0	H	148.0	-99.9
7831.775000	-65.26	-13.00	52.26	---	---	200.0	H	0.0	-97.9



7.1.1.2.1.2 Vertical

Full Spectrum



Critical_Freqs

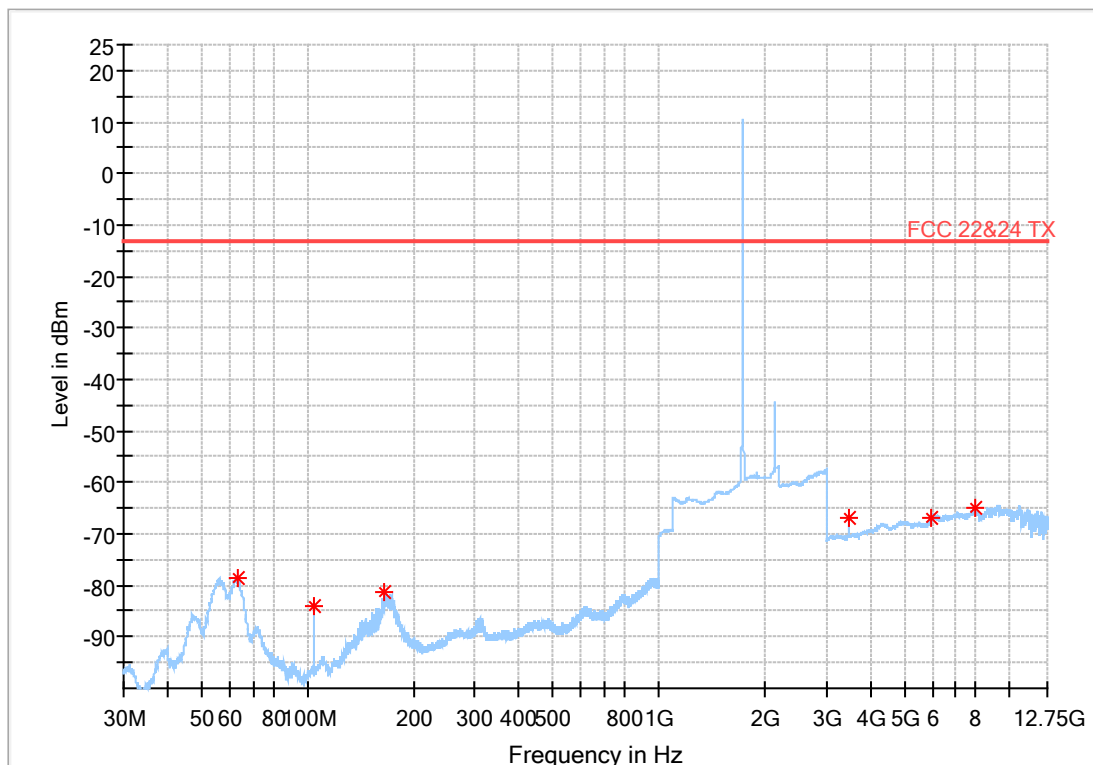
Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr.
64.800000	-82.54	-13.00	69.54	---	---	200.0	V	188.0	---
165.000000	-83.30	-13.00	70.30	---	---	200.0	V	95.0	---
305.850000	-83.02	-13.00	70.02	---	---	200.0	V	329.0	---
3422.825000	-69.24	-13.00	56.24	---	---	200.0	V	148.0	---
6025.750000	-66.49	-13.00	53.49	---	---	200.0	V	358.0	---
9214.000000	-64.60	-13.00	51.60	---	---	200.0	V	358.0	-97.0



7.1.1.2.2 Test Channel = MCH

7.1.1.2.2.1 Horizontal

Full Spectrum



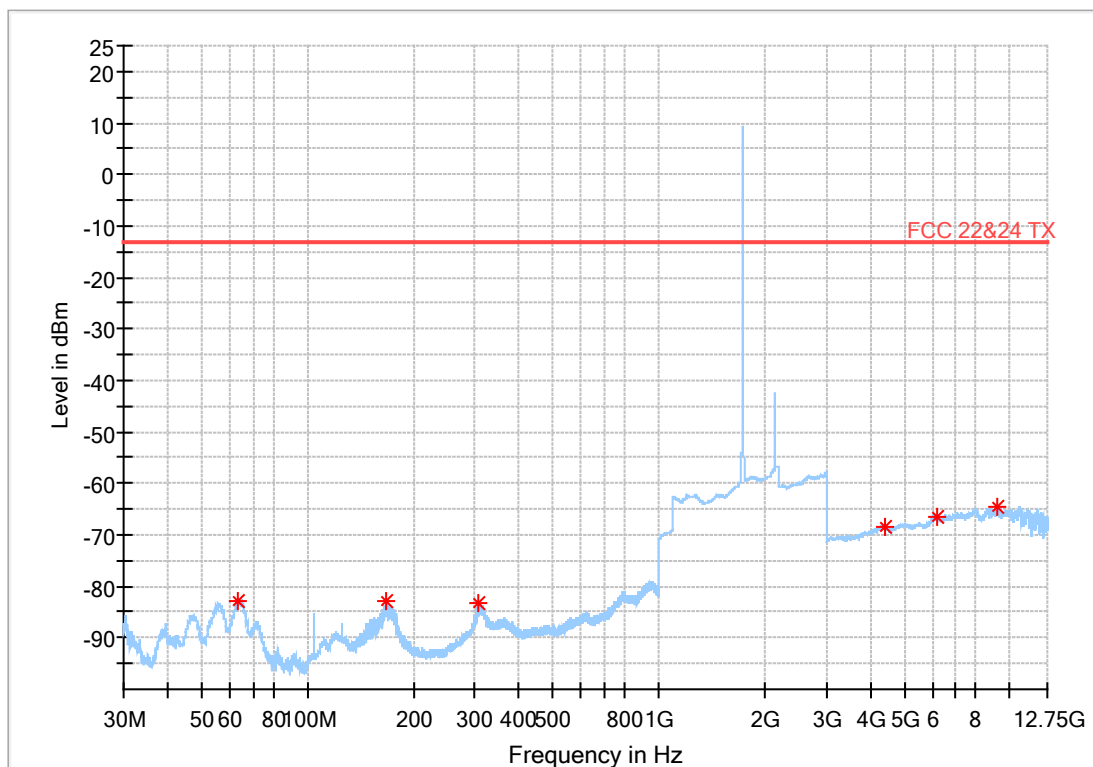
Critical Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.300000	-78.56	-13.00	65.56	---	---	200.0	H	328.0	-96.0
104.300000	-83.91	-13.00	70.91	---	---	200.0	H	0.0	-109.6
166.250000	-81.39	-13.00	68.39	---	---	200.0	H	190.0	-107.3
3463.125000	-67.06	-13.00	54.06	---	---	200.0	H	0.0	-105.5
5965.625000	-66.78	-13.00	53.78	---	---	200.0	H	0.0	-100.6
7939.025000	-64.92	-13.00	51.92	---	---	200.0	H	358.0	-98.0



7.1.1.2.2.2 Vertical

Full Spectrum



Critical_Freqs

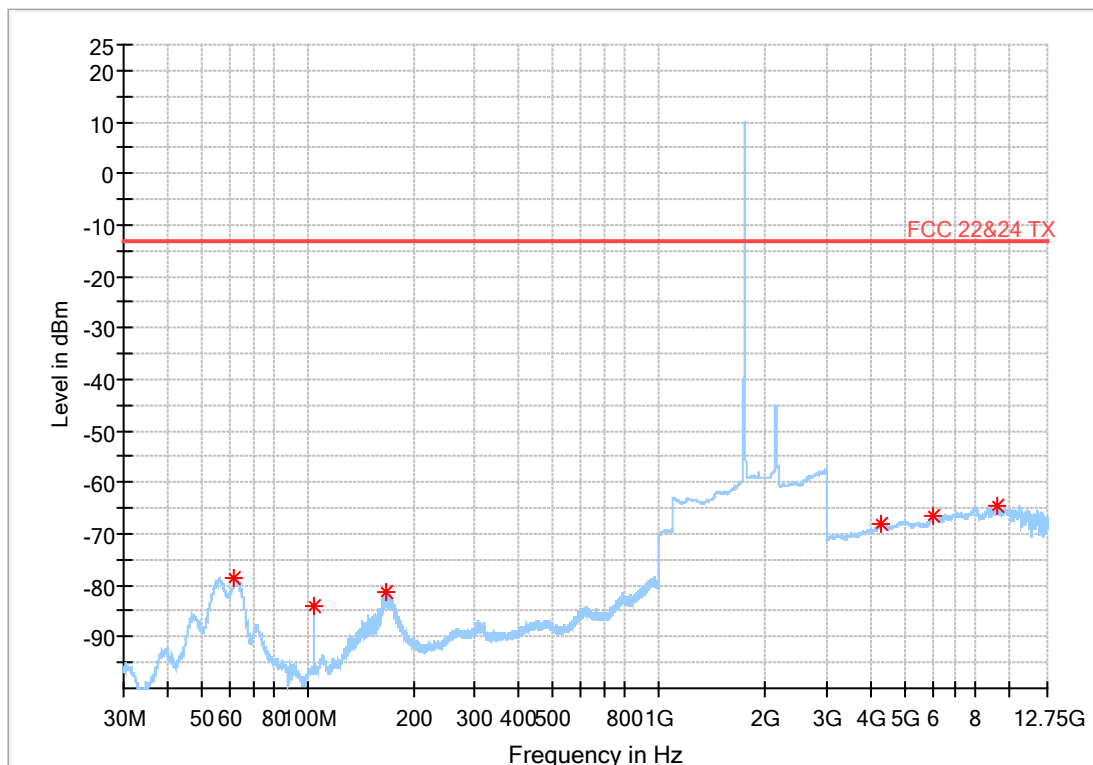
Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.300000	-83.00	-13.00	70.00	---	---	200.0	V	236.0	-100.2
167.750000	-82.70	-13.00	69.70	---	---	200.0	V	26.0	-108.6
306.700000	-83.44	-13.00	70.44	---	---	200.0	V	306.0	-102.2
4419.275000	-68.65	-13.00	55.65	---	---	200.0	V	0.0	-102.8
6166.475000	-66.46	-13.00	53.46	---	---	200.0	V	148.0	-99.9
9216.600000	-64.63	-13.00	51.63	---	---	200.0	V	0.0	-97.0



7.1.1.2.3 Test Channel = HCH

7.1.1.2.3.1 Horizontal

Full Spectrum



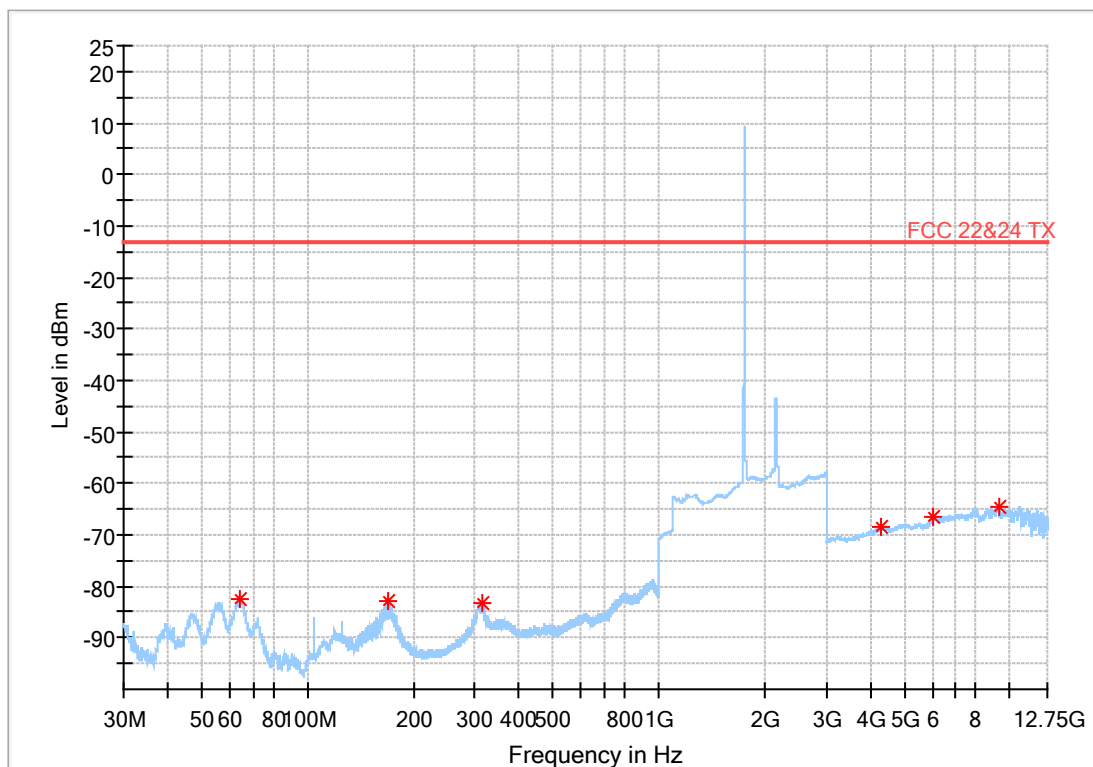
Critical Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.150000	-78.74	-13.00	65.74	---	---	200.0	H	189.0	-95.0
104.300000	-84.22	-13.00	71.22	---	---	200.0	H	26.0	-109.6
167.400000	-81.15	-13.00	68.15	---	---	200.0	H	26.0	-107.3
429.740000	-68.03	-13.00	55.03	---	---	200.0	H	359.0	-102.6
602.510000	-66.45	-13.00	53.45	---	---	200.0	H	0.0	-100.1
922.025000	-64.59	-13.00	51.59	---	---	200.0	H	0.0	-96.9



7.1.1.2.3.2 Vertical

Full Spectrum



Critical Freqs

Frequency (MHz)	Average (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.500000	-82.52	-13.00	69.52	---	---	200.0	V	328.0	-99.9
168.950000	-82.70	-13.00	69.70	---	---	200.0	V	48.0	-108.7
314.700000	-83.25	-13.00	70.25	---	---	200.0	V	282.0	-102.0
4305.525000	-68.35	-13.00	55.35	---	---	200.0	V	0.0	-102.7
6053.375000	-66.47	-13.00	53.47	---	---	200.0	V	0.0	-99.8
9248.450000	-64.64	-13.00	51.64	---	---	200.0	V	358.0	-97.0

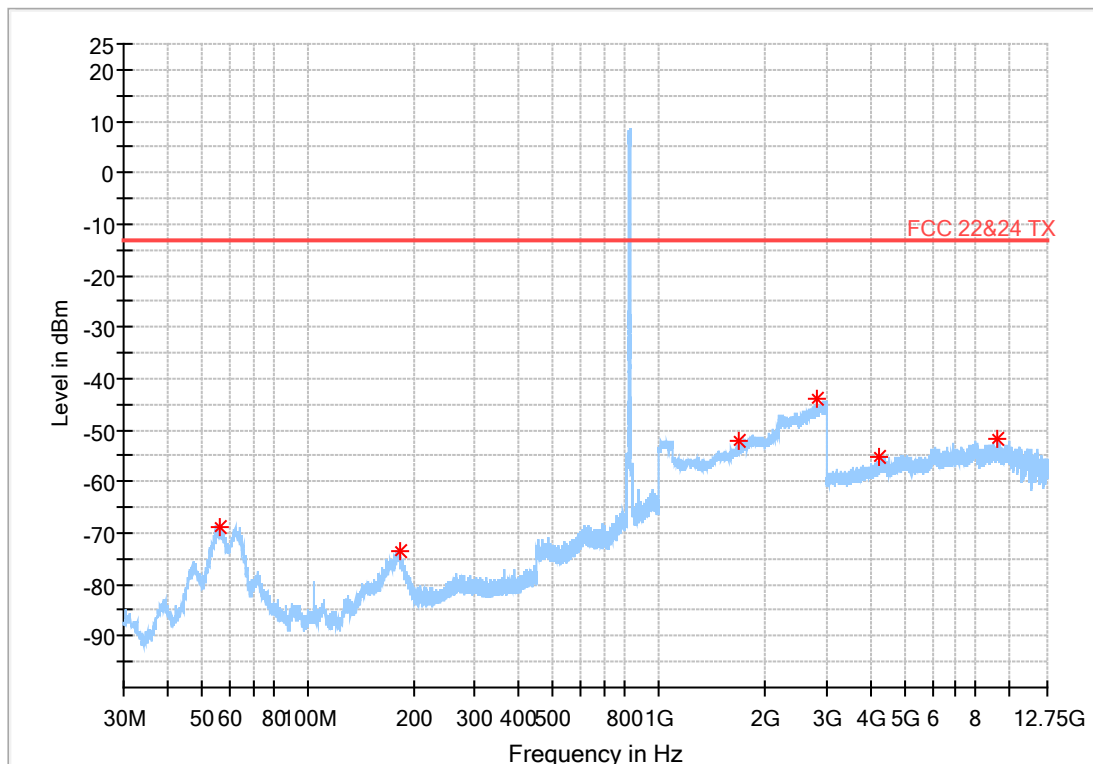


7.1.1.3 Test Band = WCDMA BAND V

7.1.1.3.1 Test Channel = LCH

7.1.1.3.1.1 Horizontal

Full Spectrum



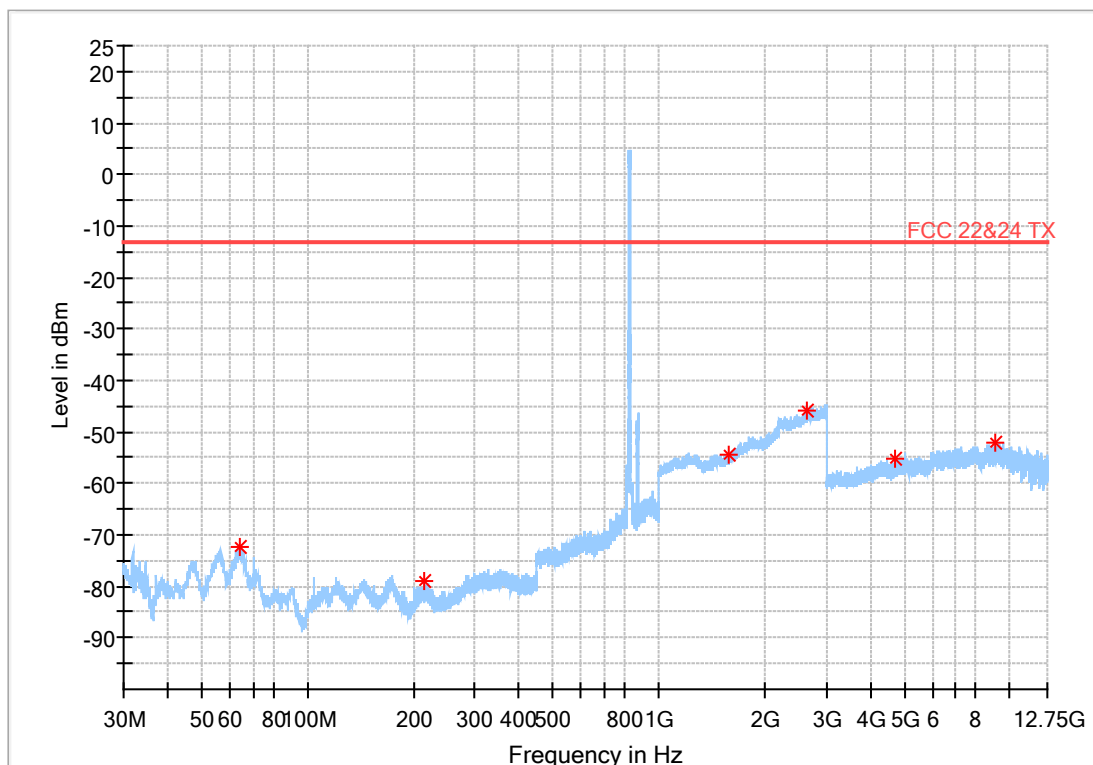
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.350000	-68.87	-13.00	55.87	---	---	200.0	H	0.0	-96.8
184.200000	-73.58	-13.00	60.58	---	---	200.0	H	53.0	-106.9
1690.000000	-52.10	-13.00	39.10	---	---	200.0	H	143.0	-87.0
2819.000000	-44.07	-13.00	31.07	---	---	200.0	H	0.0	-78.4
4246.375000	-55.38	-13.00	42.38	---	---	200.0	H	0.0	-103.0
9202.625000	-51.52	-13.00	38.52	---	---	200.0	H	0.0	-96.9



7.1.1.3.1.2 Vertical

Full Spectrum



Critical_Freqs

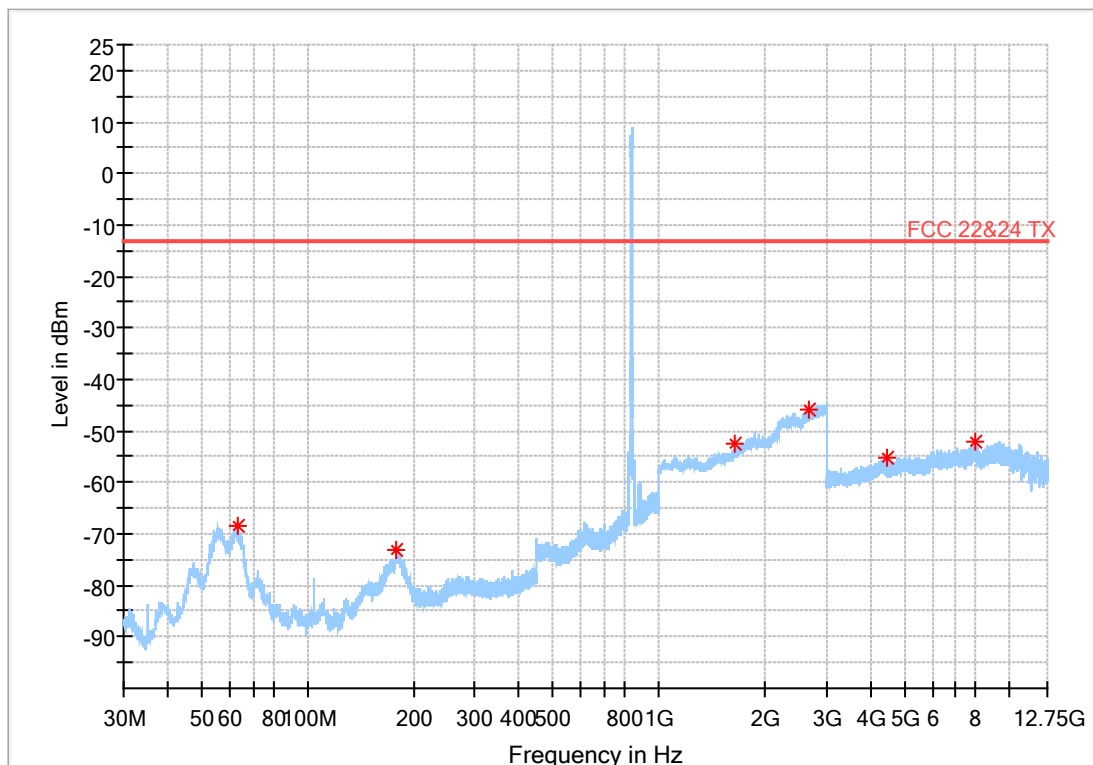
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.450000	-72.35	-13.00	59.35	---	---	200.0	V	146.0	-99.9
216.250000	-79.07	-13.00	66.07	---	---	200.0	V	169.0	-106.8
1577.000000	-54.39	-13.00	41.39	---	---	200.0	V	212.0	-88.4
2621.500000	-45.95	-13.00	32.95	---	---	200.0	V	0.0	-79.9
4695.200000	-55.23	-13.00	42.23	---	---	200.0	V	0.0	-102.5
9094.725000	-52.10	-13.00	39.10	---	---	200.0	V	212.0	-97.0



7.1.1.3.2 Test Channel = MCH

7.1.1.3.2.1 Horizontal

Full Spectrum



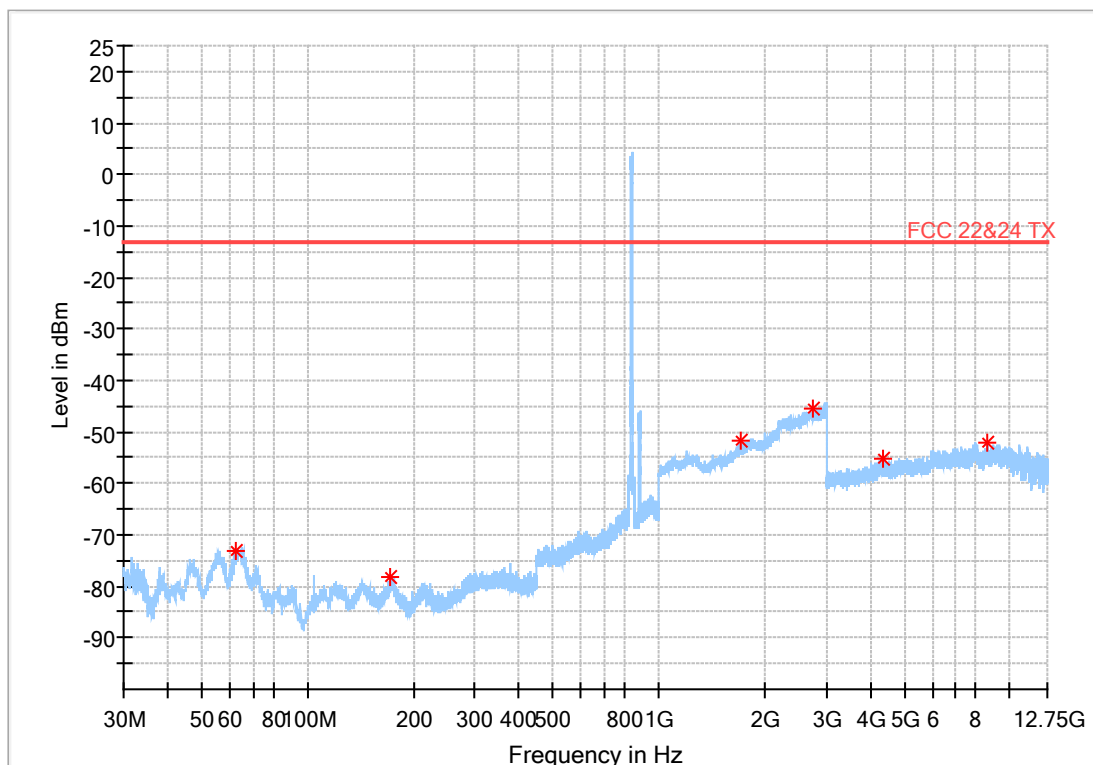
Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.300000	-68.58	-13.00	55.58	---	---	200.0	H	0.0	-96.0
178.850000	-73.05	-13.00	60.05	---	---	200.0	H	53.0	-107.2
1651.000000	-52.59	-13.00	39.59	---	---	200.0	H	213.0	-87.3
2660.000000	-46.01	-13.00	33.01	---	---	200.0	H	0.0	-79.5
4449.500000	-55.33	-13.00	42.33	---	---	200.0	H	2.0	-102.7
7899.375000	-52.15	-13.00	39.15	---	---	200.0	H	0.0	-97.9



7.1.1.3.2.2 Vertical

Full Spectrum



Critical_Freqs

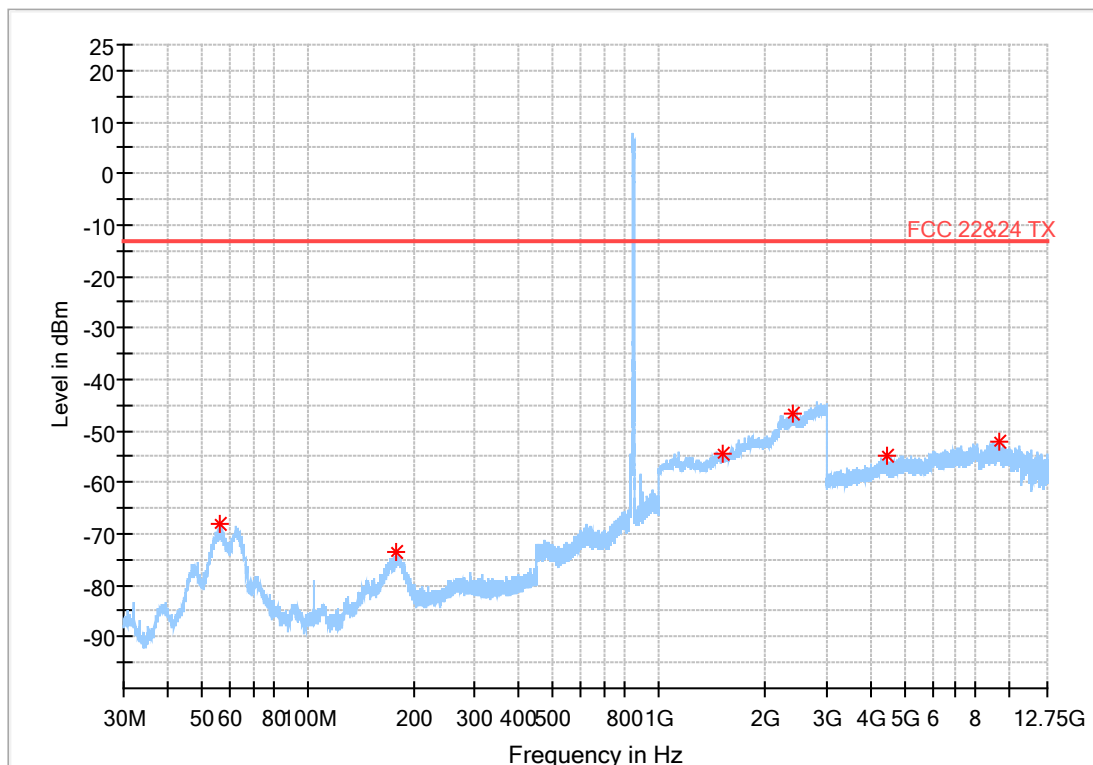
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.550000	-72.94	-13.00	59.94	---	---	200.0	V	9.0	-100.4
172.600000	-78.36	-13.00	65.36	---	---	200.0	V	265.0	-108.9
1712.500000	-51.62	-13.00	38.62	---	---	200.0	V	0.0	-86.7
2756.000000	-45.63	-13.00	32.63	---	---	200.0	V	143.0	-79.4
4330.875000	-55.41	-13.00	42.41	---	---	200.0	V	212.0	-102.8
8609.500000	-52.24	-13.00	39.24	---	---	200.0	V	2.0	-97.7



7.1.1.3.3 Test Channel = HCH

7.1.1.3.3.1 Horizontal

Full Spectrum



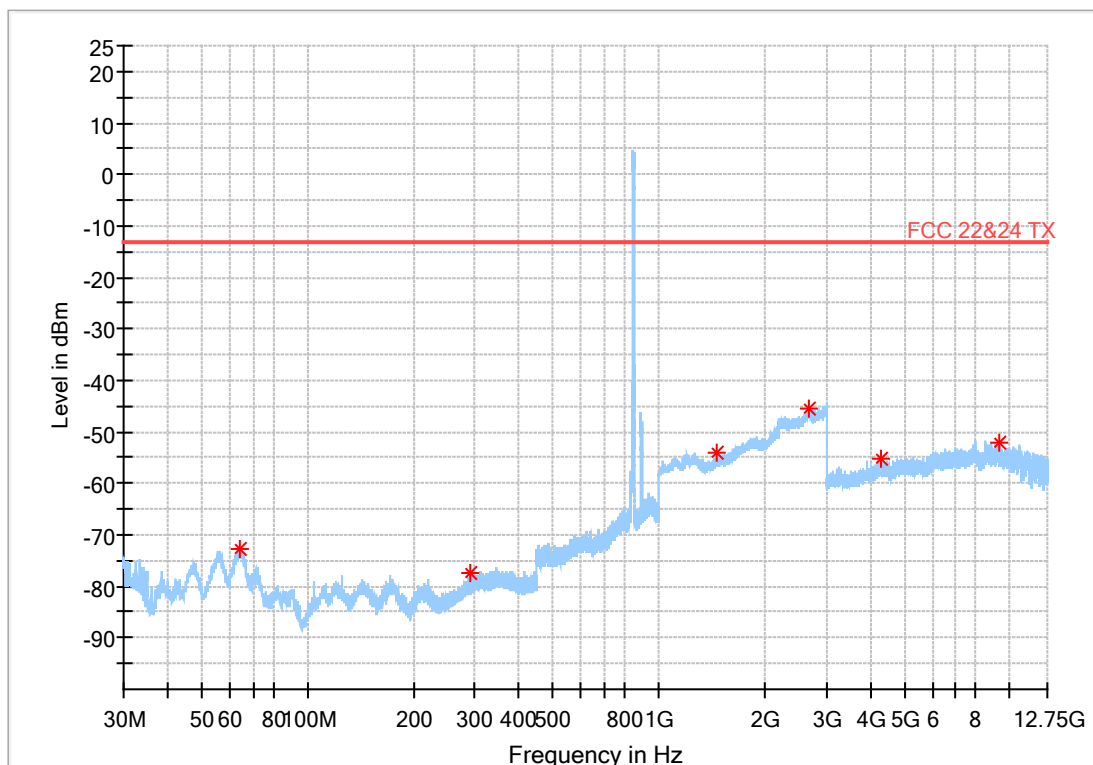
Critical Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
56.500000	-68.06	-13.00	55.06	---	---	200.0	H	310.0	-96.7
179.200000	-73.67	-13.00	60.67	---	---	200.0	H	52.0	-107.2
1526.500000	-54.32	-13.00	41.32	---	---	200.0	H	355.0	-88.0
2408.500000	-46.80	-13.00	33.80	---	---	200.0	H	359.0	-80.9
4447.225000	-54.88	-13.00	41.88	---	---	200.0	H	1.0	-102.7
9262.750000	-52.13	-13.00	39.13	---	---	200.0	H	1.0	-96.9



7.1.1.3.3.2 Vertical

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.600000	-72.65	-13.00	59.65	---	---	200.0	V	241.0	-99.9
291.550000	-77.48	-13.00	64.48	---	---	200.0	V	0.0	-102.7
1468.500000	-54.15	-13.00	41.15	---	---	200.0	V	354.0	-88.4
2679.500000	-45.53	-13.00	32.53	---	---	200.0	V	177.0	-78.9
4309.750000	-55.37	-13.00	42.37	---	---	200.0	V	0.0	-102.7
9245.525000	-52.14	-13.00	39.14	---	---	200.0	V	0.0	-97.0

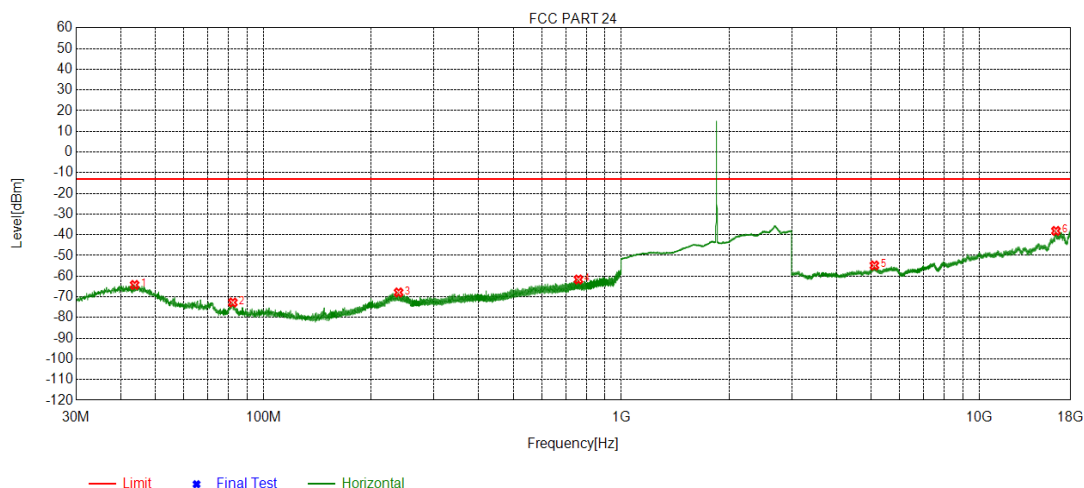


7.1.2 Secondary Antenna

7.1.2.1 Test Band = WCDMA BAND II

7.1.2.1.1 Test Channel = LCH

7.1.2.1.1.1 Horizontal

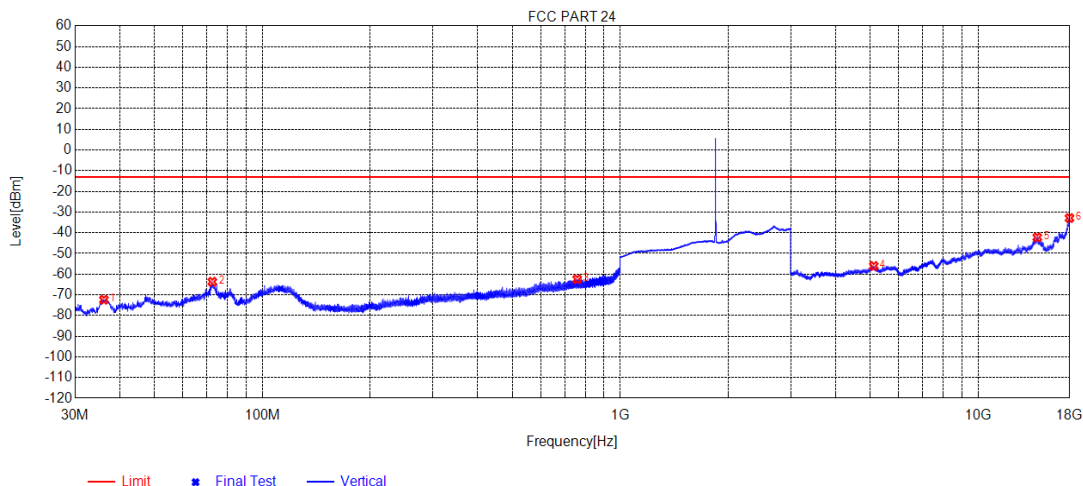


Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	43.7262	-71.18	-64.23	-13.00	51.23	6.95	Horizontal
2	82.2371	-68.31	-72.73	-13.00	59.73	-4.42	Horizontal
3	238.8514	-70.66	-67.87	-13.00	54.87	2.79	Horizontal
4	759.7190	-71.56	-61.62	-13.00	48.62	9.94	Horizontal
5	5098.570	-76.46	-54.82	-13.00	41.82	21.64	Horizontal
6	16392.44	-75.49	-38.12	-13.00	25.12	37.37	Horizontal



7.1.2.1.1.2 Vertical



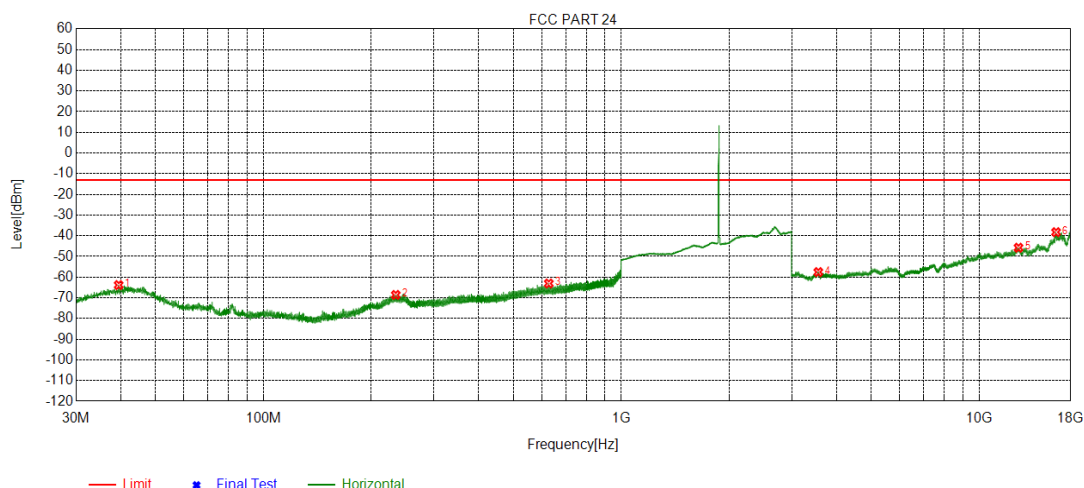
Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.1113	-63.84	-72.37	-13.00	59.37	-8.53	Vertical
2	72.5366	-64.82	-63.67	-13.00	50.67	1.15	Vertical
3	758.4094	-72.09	-62.43	-13.00	49.43	9.66	Vertical
4	5111.570	-77.28	-56.05	-13.00	43.05	21.23	Vertical
5	14630.88	-77.63	-42.20	-13.00	29.20	35.43	Vertical
6	17998.50	-77.50	-32.88	-13.00	19.88	44.62	Vertical



7.1.2.1.2 Test Channel = MCH

7.1.2.1.2.1 Horizontal

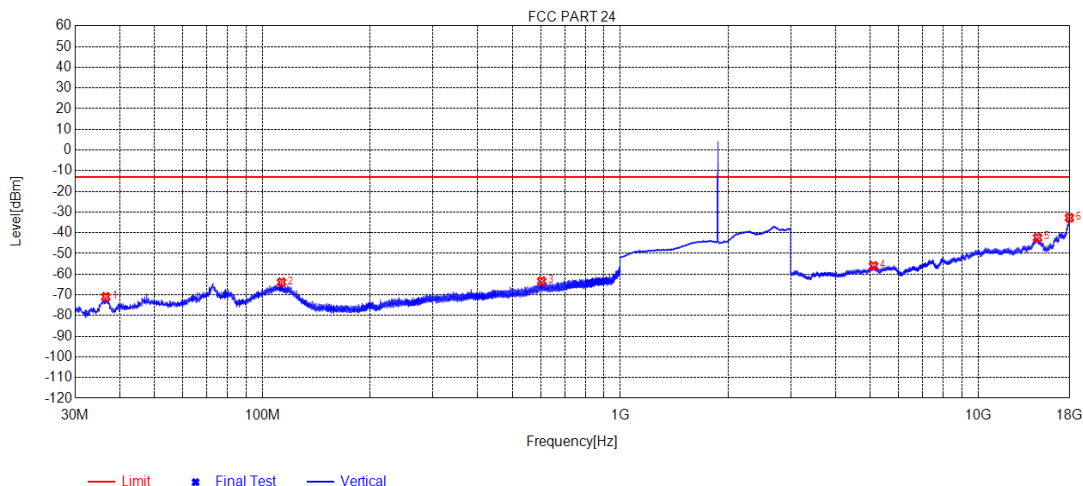


Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	39.4580	-70.40	-63.82	-13.00	50.82	6.58	Horizontal
2	234.5347	-71.39	-68.58	-13.00	55.58	2.81	Horizontal
3	627.7439	-70.82	-63.05	-13.00	50.05	7.77	Horizontal
4	3554.518	-75.82	-57.55	-13.00	44.55	18.27	Horizontal
5	12882.32	-78.51	-45.76	-13.00	32.76	32.75	Horizontal
6	16406.44	-75.67	-38.25	-13.00	25.25	37.42	Horizontal



7.1.2.1.2.2 Vertical



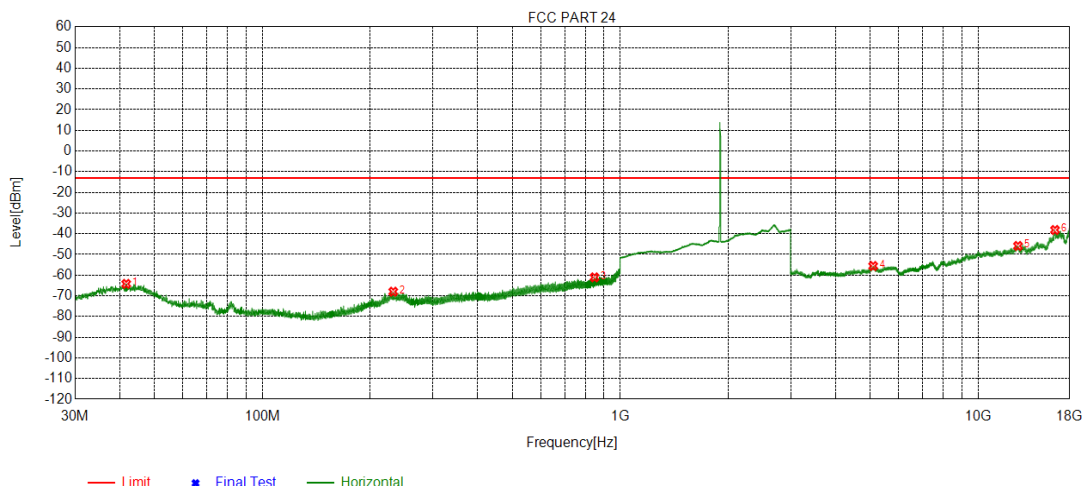
Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.5478	-62.68	-70.99	-13.00	57.99	-8.31	Vertical
2	113.2302	-70.07	-63.94	-13.00	50.94	6.13	Vertical
3	603.7352	-71.06	-63.43	-13.00	50.43	7.63	Vertical
4	5104.070	-77.29	-56.03	-13.00	43.03	21.26	Vertical
5	14659.38	-78.04	-42.37	-13.00	29.37	35.67	Vertical
6	17997.99	-77.35	-32.74	-13.00	19.74	44.61	Vertical



7.1.2.1.3 Test Channel = HCH

7.1.2.1.3.1 Horizontal

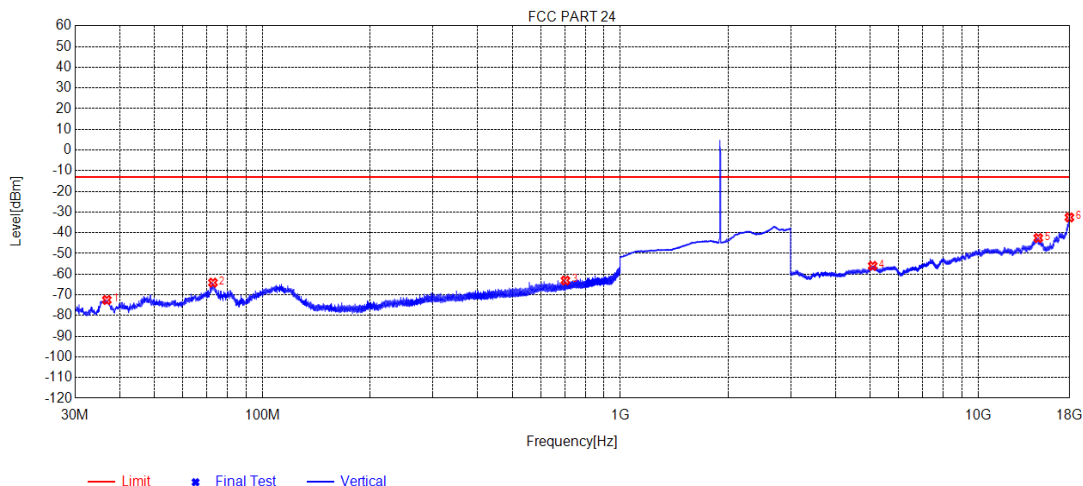


Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.6891	-71.06	-64.21	-13.00	51.21	6.85	Horizontal
2	232.2066	-70.80	-67.98	-13.00	54.98	2.82	Horizontal
3	847.9934	-71.99	-61.06	-13.00	48.06	10.93	Horizontal
4	5090.569	-77.13	-55.56	-13.00	42.56	21.57	Horizontal
5	12924.83	-78.62	-45.88	-13.00	32.88	32.74	Horizontal
6	16398.44	-75.64	-38.15	-13.00	25.15	37.49	Horizontal



7.1.2.1.3.2 Vertical



Suspected Data List

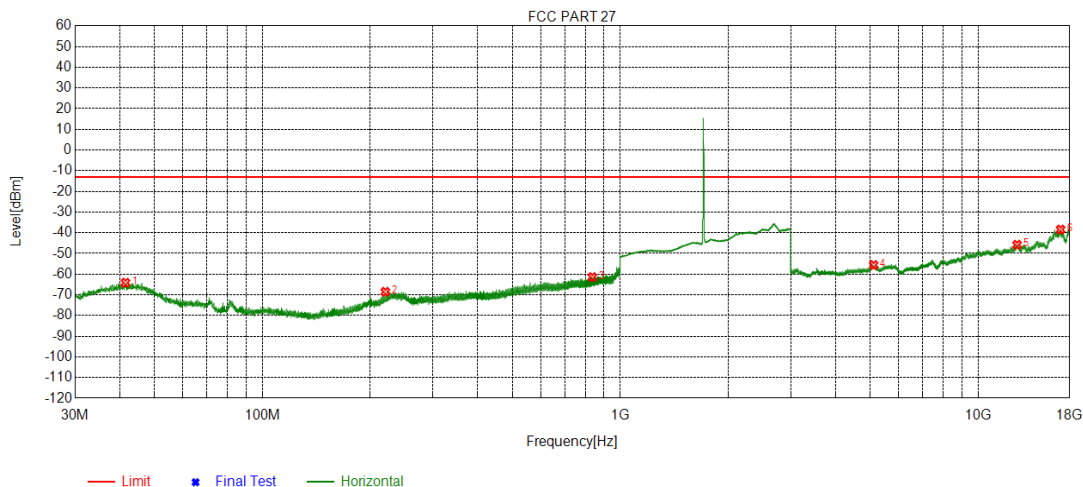
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7903	-64.29	-72.48	-13.00	59.48	-8.19	Vertical
2	72.8276	-65.19	-64.09	-13.00	51.09	1.10	Vertical
3	703.2137	-71.40	-63.05	-13.00	50.05	8.35	Vertical
4	5075.069	-77.17	-55.99	-13.00	42.99	21.18	Vertical
5	14723.89	-78.19	-42.52	-13.00	29.52	35.67	Vertical
6	17991.99	-77.03	-32.56	-13.00	19.56	44.47	Vertical



7.1.2.2 Test Band = WCDMA BAND IV

7.1.2.2.1 Test Channel = LCH

7.1.2.2.1.1 Horizontal

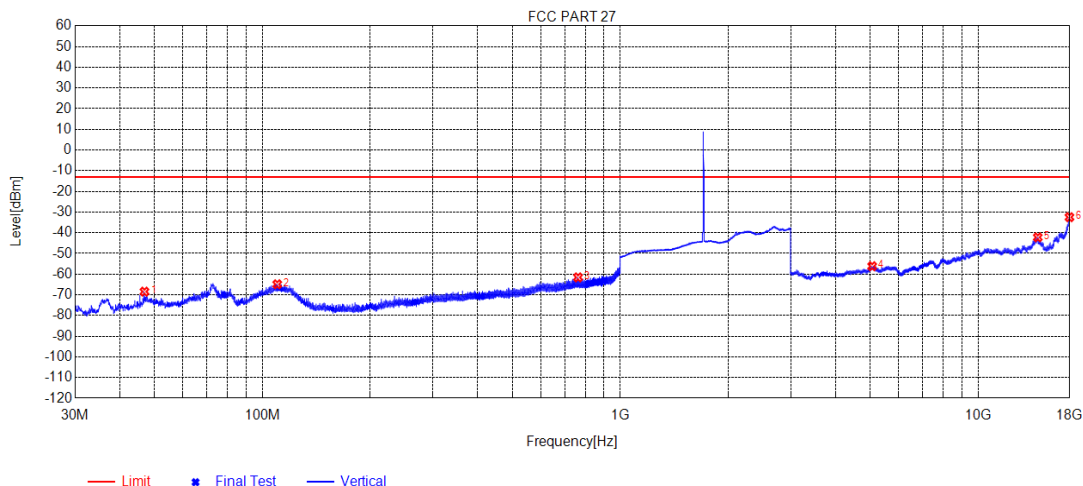


Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	41.4951	-70.98	-64.14	-13.00	51.14	6.84	Horizontal
2	220.7600	-69.70	-68.53	-13.00	55.53	1.17	Horizontal
3	836.0618	-72.10	-61.44	-13.00	48.44	10.66	Horizontal
4	5106.570	-77.22	-55.60	-13.00	42.60	21.62	Horizontal
5	12847.82	-78.34	-45.79	-13.00	32.79	32.55	Horizontal
6	16998.46	-77.66	-38.44	-13.00	25.44	39.22	Horizontal



7.1.2.2.1.2 Vertical



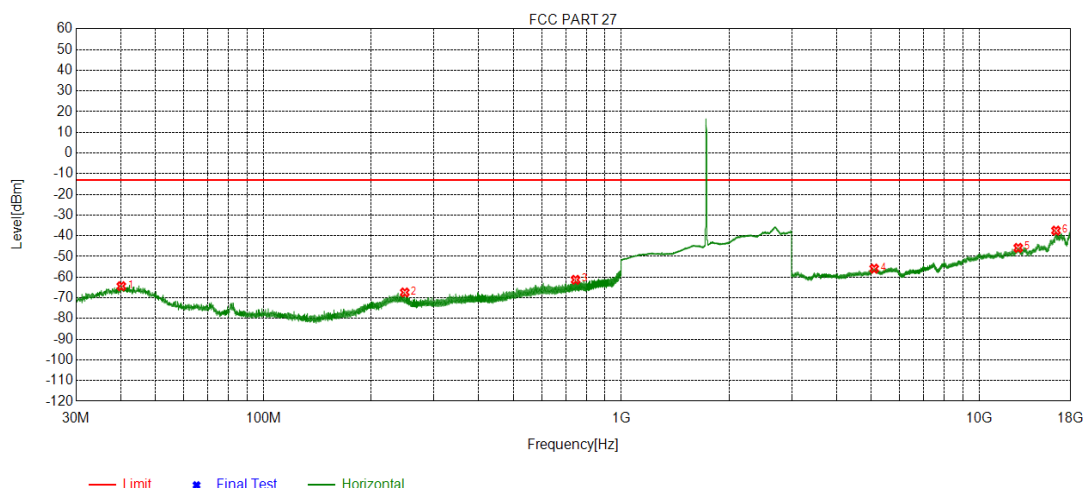
Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	46.8788	-66.58	-68.45	-13.00	55.45	-1.87	Vertical
2	110.1260	-71.29	-64.89	-13.00	51.89	6.40	Vertical
3	762.4836	-71.22	-61.56	-13.00	48.56	9.66	Vertical
4	5058.568	-77.28	-56.16	-13.00	43.16	21.12	Vertical
5	14679.38	-78.03	-42.19	-13.00	29.19	35.84	Vertical
6	17995.99	-77.02	-32.46	-13.00	19.46	44.56	Vertical



7.1.2.2.2 Test Channel = MCH

7.1.2.2.2.1 Horizontal

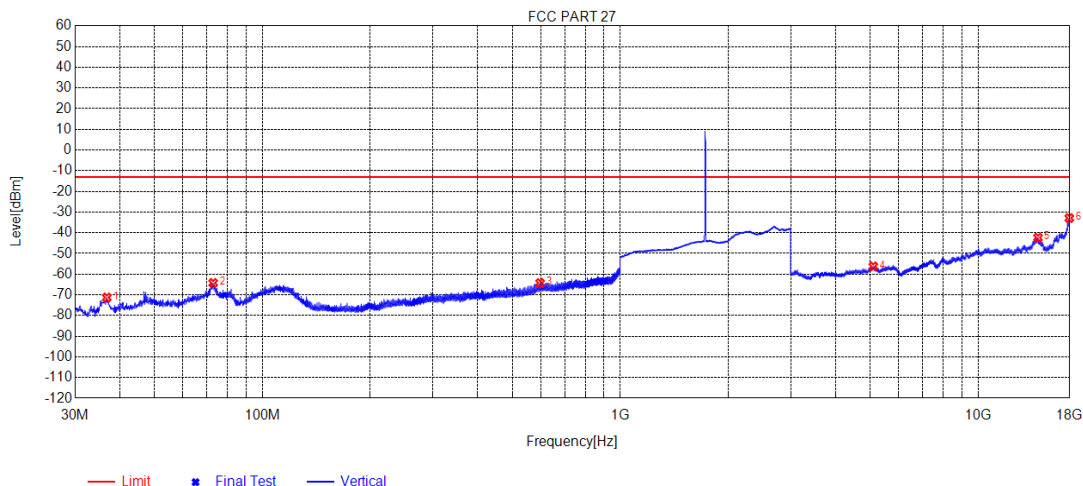


Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	40.1370	-71.14	-64.37	-13.00	51.37	6.77	Horizontal
2	248.5519	-69.99	-67.39	-13.00	54.39	2.60	Horizontal
3	745.7503	-71.09	-61.27	-13.00	48.27	9.82	Horizontal
4	5090.569	-77.45	-55.88	-13.00	42.88	21.57	Horizontal
5	12858.32	-78.45	-45.84	-13.00	32.84	32.61	Horizontal
6	16400.44	-75.00	-37.49	-13.00	24.49	37.51	Horizontal



7.1.2.2.2.2 Vertical



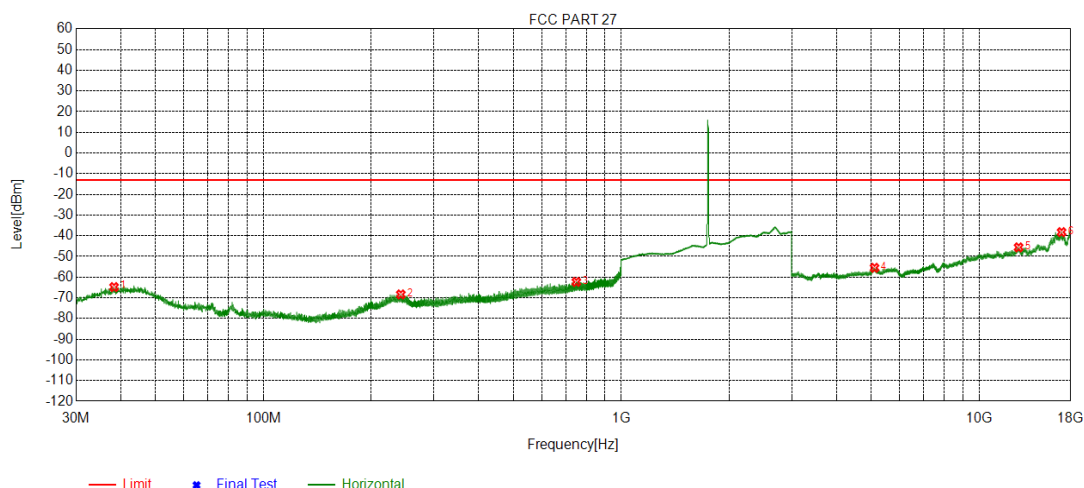
Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.7903	-63.10	-71.29	-13.00	58.29	-8.19	Vertical
2	72.9246	-65.34	-64.25	-13.00	51.25	1.09	Vertical
3	597.4784	-71.82	-64.30	-13.00	51.30	7.52	Vertical
4	5094.069	-77.49	-56.24	-13.00	43.24	21.25	Vertical
5	14699.89	-78.38	-42.37	-13.00	29.37	36.01	Vertical
6	17976.99	-77.03	-32.89	-13.00	19.89	44.14	Vertical



7.1.2.2.3 Test Channel = HCH

7.1.2.2.3.1 Horizontal

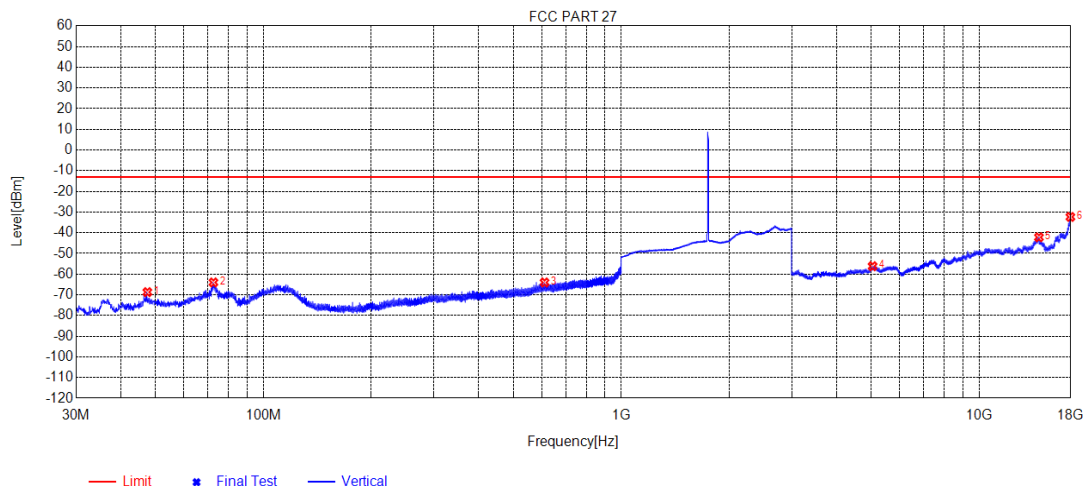


Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.2939	-70.97	-64.78	-13.00	51.78	6.19	Horizontal
2	242.3436	-71.08	-68.34	-13.00	55.34	2.74	Horizontal
3	749.2910	-72.24	-62.30	-13.00	49.30	9.94	Horizontal
4	5103.070	-77.12	-55.48	-13.00	42.48	21.64	Horizontal
5	12893.32	-78.41	-45.59	-13.00	32.59	32.82	Horizontal
6	16998.96	-77.46	-38.23	-13.00	25.23	39.23	Horizontal



7.1.2.2.3.2 Vertical



Suspected Data List

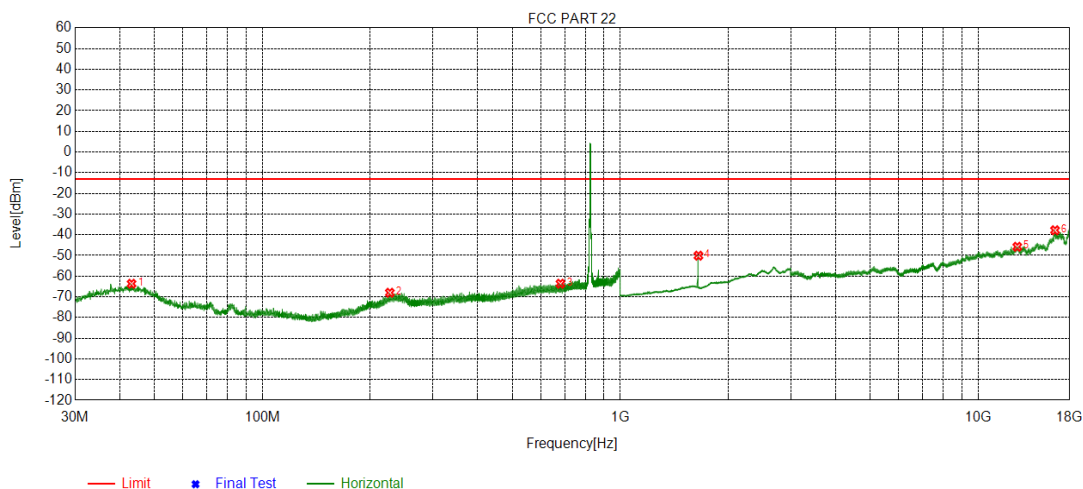
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.4609	-66.95	-68.69	-13.00	55.69	-1.74	Vertical
2	72.5851	-65.14	-63.99	-13.00	50.99	1.15	Vertical
3	610.9135	-71.63	-64.03	-13.00	51.03	7.60	Vertical
4	5039.568	-77.21	-56.16	-13.00	43.16	21.05	Vertical
5	14692.88	-78.13	-42.18	-13.00	29.18	35.95	Vertical
6	17990.99	-76.78	-32.33	-13.00	19.33	44.45	Vertical



7.1.2.3 Test Band = WCDMA BAND V

7.1.2.3.1 Test Channel = LCH

7.1.2.3.1.1 Horizontal

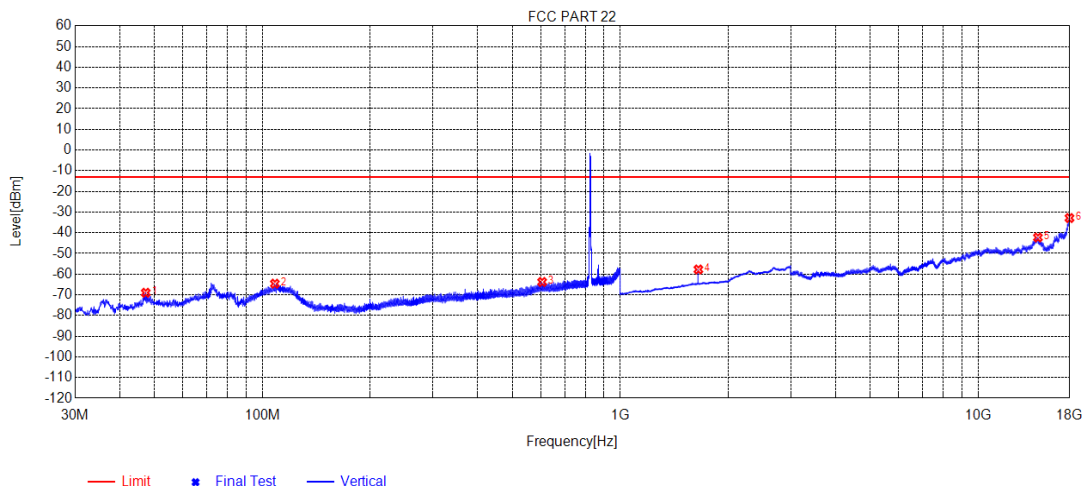


Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	43.1442	-70.58	-63.66	-13.00	50.66	6.92	Horizontal
2	227.2594	-70.35	-68.01	-13.00	55.01	2.34	Horizontal
3	680.9025	-71.78	-63.63	-13.00	50.63	8.15	Horizontal
4	1654.530	-54.09	-50.09	-13.00	37.09	4.00	Horizontal
5	12866.32	-78.46	-45.80	-13.00	32.80	32.66	Horizontal
6	16403.44	-75.27	-37.80	-13.00	24.80	37.47	Horizontal



7.1.2.3.1.2 Vertical



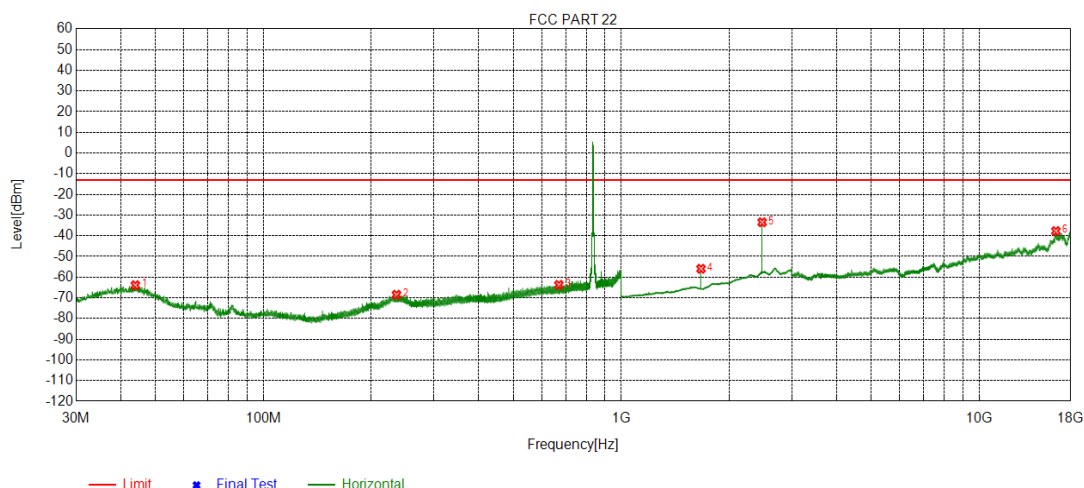
Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.2669	-67.20	-68.99	-13.00	55.99	-1.79	Vertical
2	108.4769	-70.65	-64.59	-13.00	51.59	6.06	Vertical
3	605.3358	-71.40	-63.78	-13.00	50.78	7.62	Vertical
4	1654.130	-62.42	-57.73	-13.00	44.73	4.69	Vertical
5	14691.38	-78.21	-42.27	-13.00	29.27	35.94	Vertical
6	17999.50	-77.50	-32.86	-13.00	19.86	44.64	Vertical



7.1.2.3.2 Test Channel = MCH

7.1.2.3.2.1 Horizontal

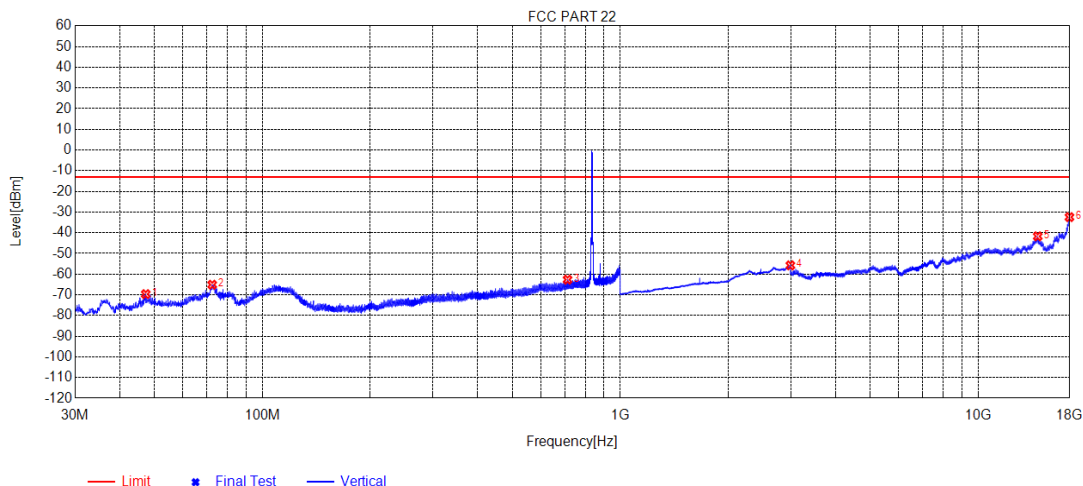


Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	43.9202	-70.86	-63.90	-13.00	50.90	6.96	Horizontal
2	235.7473	-71.32	-68.51	-13.00	55.51	2.81	Horizontal
3	669.9410	-71.79	-63.74	-13.00	50.74	8.05	Horizontal
4	1671.334	-59.78	-55.95	-13.00	42.95	3.83	Horizontal
5	2476.295	-44.33	-33.44	-13.00	20.44	10.89	Horizontal
6	16387.94	-75.00	-37.72	-13.00	24.72	37.28	Horizontal



7.1.2.3.2.2 Vertical



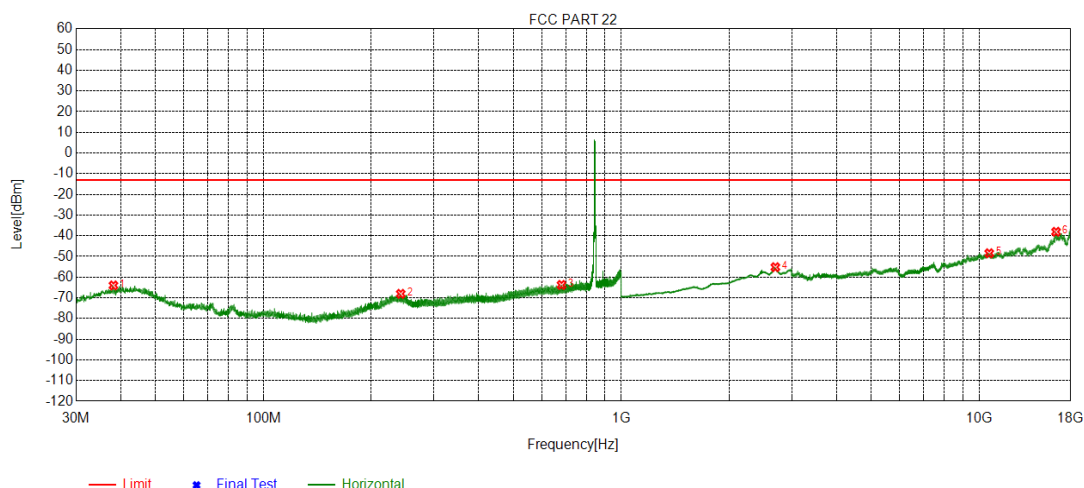
Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	47.2669	-67.86	-69.65	-13.00	56.65	-1.79	Vertical
2	72.4881	-66.27	-65.11	-13.00	52.11	1.16	Vertical
3	712.7686	-71.26	-62.65	-13.00	49.65	8.61	Vertical
4	2989.197	-69.26	-55.76	-13.00	42.76	13.50	Vertical
5	14673.88	-77.49	-41.70	-13.00	28.70	35.79	Vertical
6	17996.49	-76.99	-32.42	-13.00	19.42	44.57	Vertical



7.1.2.3.3 Test Channel = HCH

7.1.2.3.3.1 Horizontal

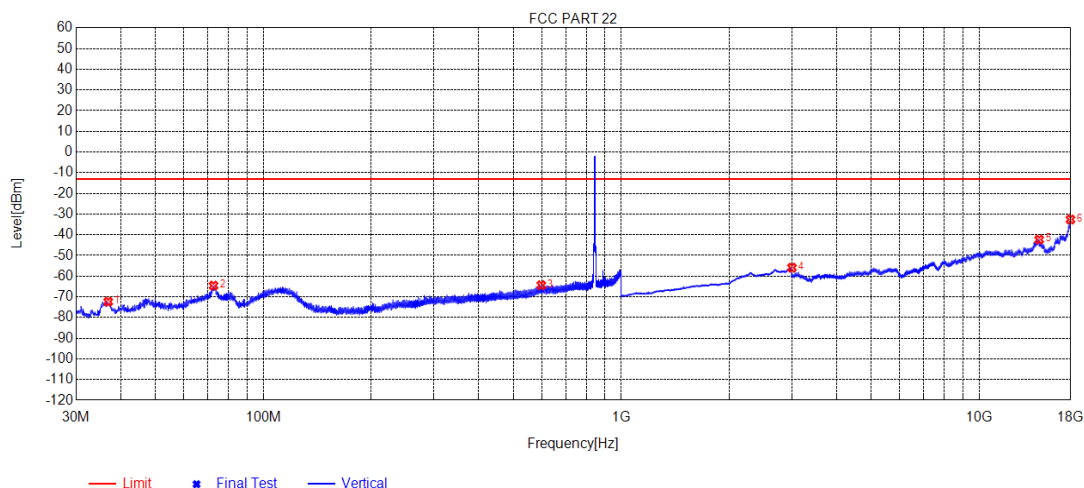


Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.1484	-70.14	-64.00	-13.00	51.00	6.14	Horizontal
2	242.1981	-70.80	-68.06	-13.00	55.06	2.74	Horizontal
3	681.3391	-71.91	-63.76	-13.00	50.76	8.15	Horizontal
4	2696.739	-68.02	-55.18	-13.00	42.18	12.84	Horizontal
5	10673.75	-77.56	-48.45	-13.00	35.45	29.11	Horizontal
6	16404.44	-75.51	-38.06	-13.00	25.06	37.45	Horizontal



7.1.2.3.3.2 Vertical



Suspected Data List

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.8873	-64.23	-72.37	-13.00	59.37	-8.14	Vertical
2	72.6336	-65.70	-64.56	-13.00	51.56	1.14	Vertical
3	598.2544	-71.92	-64.37	-13.00	51.37	7.55	Vertical
4	3000.000	-69.61	-55.89	-13.00	42.89	13.72	Vertical
5	14713.89	-78.12	-42.31	-13.00	29.31	35.81	Vertical
6	17998.50	-77.21	-32.59	-13.00	19.59	44.62	Vertical

REMARK:

- 1) The disturbance above 12.75GHz and 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.
- 2) We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA BAND II	UMTS/TM1	LCH	TN	VL	26.94	0.014541	PASS
				VN	8.51	0.004595	PASS
				VH	-11.55	-0.006236	PASS
		MCH	TN	VL	3.54	0.001883	PASS
				VN	-22.80	-0.012129	PASS
				VH	12.44	0.006616	PASS
		HCH	TN	VL	-11.22	-0.005883	PASS
				VN	20.29	0.010637	PASS
				VH	0.82	0.000431	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA BAND IV	UMTS/TM1	LCH	TN	VL	9.46	0.005526	PASS
				VN	24.30	0.014193	PASS
				VH	-3.39	-0.001980	PASS
		MCH	TN	VL	22.72	0.013115	PASS
				VN	8.16	0.004710	PASS
				VH	2.07	0.001193	PASS
		HCH	TN	VL	-9.16	-0.005224	PASS
				VN	6.73	0.003840	PASS
				VH	6.05	0.003453	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA BAND V	UMTS/TM1	LCH	TN	VL	4.59	0.005557	PASS
				VN	-0.82	-0.000995	PASS
				VH	-4.81	-0.005825	PASS
		MCH	TN	VL	7.39	0.008834	PASS
				VN	-2.95	-0.003523	PASS
				VH	-11.34	-0.013554	PASS
		HCH	TN	VL	1.16	0.001369	PASS
				VN	8.85	0.010459	PASS
				VH	-24.25	-0.028649	PASS



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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 1900	UMTS/TM1	LCH	VN	-30	19.08	0.010298	PASS
				-20	-1.17	-0.000633	PASS
				-10	10.54	0.005691	PASS
				0	-2.57	-0.001390	PASS
				10	-4.26	-0.002301	PASS
				20	17.19	0.009279	PASS
				30	8.78	0.004742	PASS
				40	10.84	0.005850	PASS
				50	17.42	0.009406	PASS
		MCH	VN	-30	-10.70	-0.005692	PASS
				-20	1.26	0.000670	PASS
				-10	0.87	0.000464	PASS
				0	5.59	0.002975	PASS
				10	-13.98	-0.007434	PASS
				20	22.04	0.011722	PASS
				30	7.26	0.003862	PASS
				40	10.57	0.005623	PASS
				50	5.87	0.003120	PASS
		HCH	VN	-30	1.82	0.000956	PASS
				-20	2.14	0.001121	PASS
				-10	-1.78	-0.000934	PASS
				0	16.11	0.008444	PASS
				10	2.39	0.001252	PASS
				20	6.22	0.003262	PASS
				30	7.71	0.004042	PASS
				40	3.01	0.001579	PASS
				50	-12.27	-0.006430	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 1700	UMTS/TM1	LCH	VN	-30	21.74	0.012698	PASS
				-20	-0.90	-0.000526	PASS
				-10	-3.29	-0.001921	PASS
				0	-13.06	-0.007627	PASS
				10	27.88	0.016282	PASS
				20	-18.98	-0.011086	PASS
				30	2.73	0.001591	PASS
				40	-3.26	-0.001905	PASS
				50	6.52	0.003805	PASS
		MCH	VN	-30	20.71	0.011951	PASS
				-20	4.46	0.002576	PASS
				-10	2.52	0.001457	PASS
				0	-1.93	-0.001115	PASS
				10	-0.87	-0.000500	PASS
				20	-4.38	-0.002526	PASS
				30	19.03	0.010981	PASS
				40	3.29	0.001899	PASS
				50	4.86	0.002807	PASS
		HCH	VN	-30	-3.52	-0.002008	PASS
				-20	-2.84	-0.001620	PASS
				-10	-11.09	-0.006330	PASS
				0	-6.83	-0.003897	PASS
				10	-3.48	-0.001983	PASS
				20	5.12	0.002922	PASS
				30	7.57	0.004318	PASS
				40	4.14	0.002363	PASS
				50	4.34	0.002477	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA 850	UMTS/TM1	LCH	VN	-30	7.06	0.008543	PASS
				-20	4.52	0.005470	PASS
				-10	-2.76	-0.003341	PASS
				0	-6.60	-0.007989	PASS
				10	-4.43	-0.005366	PASS
				20	-4.56	-0.005513	PASS
				30	-0.98	-0.001186	PASS
				40	-14.91	-0.018037	PASS
				50	-0.06	-0.000069	PASS
		MCH	VN	-30	8.59	0.010270	PASS
				-20	15.29	0.018283	PASS
				-10	0.59	0.000701	PASS
				0	24.68	0.029512	PASS
				10	-24.97	-0.029854	PASS
				20	-13.25	-0.015846	PASS
				30	1.09	0.001300	PASS
				40	-1.17	-0.001402	PASS
				50	-0.21	-0.000248	PASS
		HCH	VN	-30	23.12	0.027314	PASS
				-20	10.84	0.012800	PASS
				-10	13.85	0.016365	PASS
				0	-9.80	-0.011575	PASS
				10	-2.38	-0.002813	PASS
				20	9.22	0.010890	PASS
				30	-2.05	-0.002416	PASS
				40	-16.10	-0.019018	PASS
				50	-1.03	-0.001217	PASS

The End

