Appendix A

Transmitter Output Power

According to FCC Part 2.1046 & 27 Subpart C&L

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Conducted Power of Transmitter

TEST CONDITIONS		Channel1312(B)		Channel1412(M)		Channel1513(T)	
		1712.4MHz		1732.4MHz		1752.6MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		23.56	30	23.38	30	23.51	30
TM2	Case1	23.44	30	23.21	30	23.37	30
	Case2	22.61	30	22.44	30	22.62	30
	Case3	22.05	30	21.9	30	22.07	30
	Case4	21.73	30	21.65	30	21.79	30
TM3	Case1	22.25	30	22.13	30	22.29	30
	Case2	20.45	30	20.26	30	20.51	30
	Case3	21.29	30	21.13	30	21.31	30
	Case4	20.74	30	20.63	30	20.77	30
	Case5	22.31	30	22.29	30	22.34	30

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Effective Isotropic Radiated Power of Transmitter (EIRP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (EIRP) [dBm]	FCC limit [dBm]	Result
TM1	1712.4	26.91	Horn Ant.	23.47	4.5	1.0	26.97	30	Pass
TM1	1732.4	26.73	Horn Ant.	23.25	4.5	1.0	26.75	30	Pass
TM1	1752.6	26.86	Horn Ant.	23.09	4.8	1.0	26.89	30	Pass

Note: a, For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should take to calculate it,

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]

b, SGP=Signal Generator Level

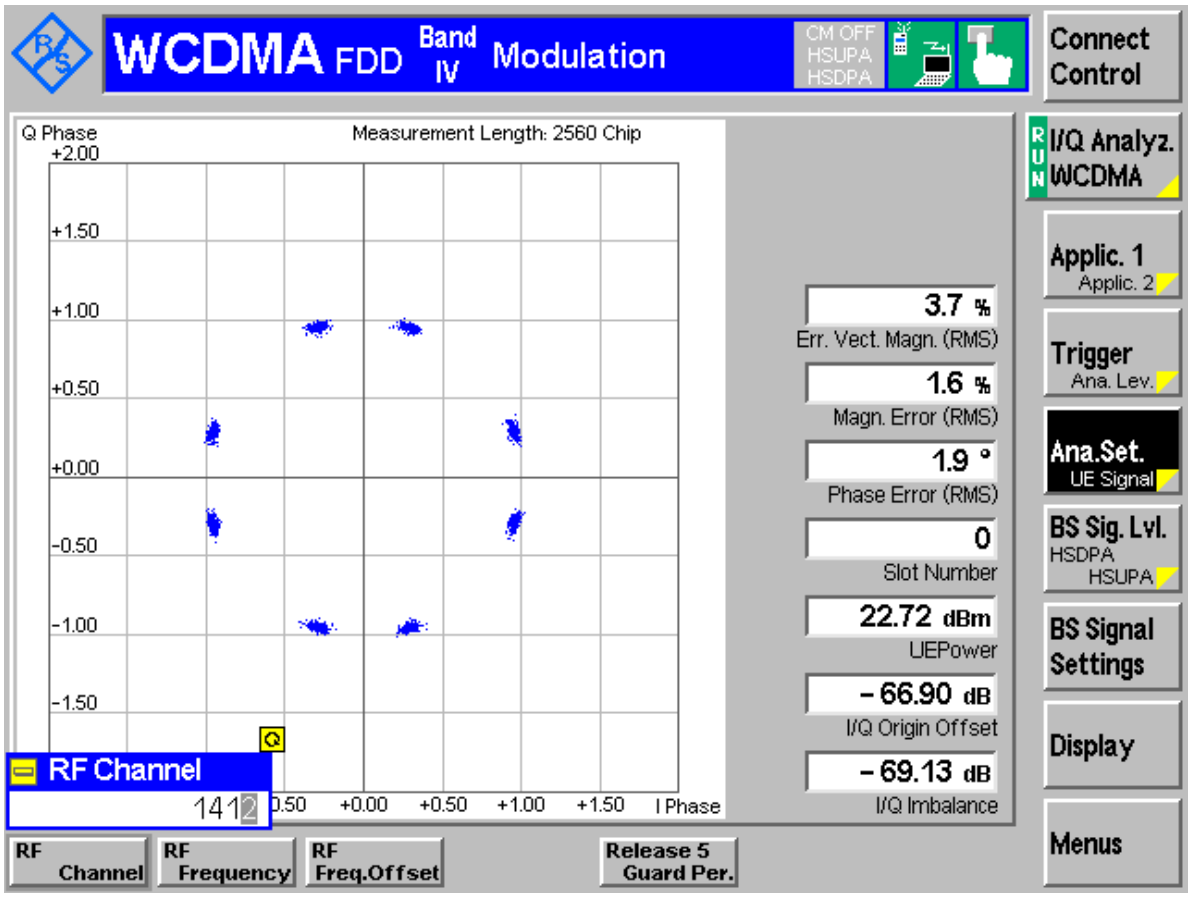
----------The END----------

Appendix B

Modulation Characteristics

According to FCC Part 2.1047 & Part 27 Subpart C&L

TM1: WCDMA
Channel 1412



----------The END----------

Appendix C

Occupied Bandwidth

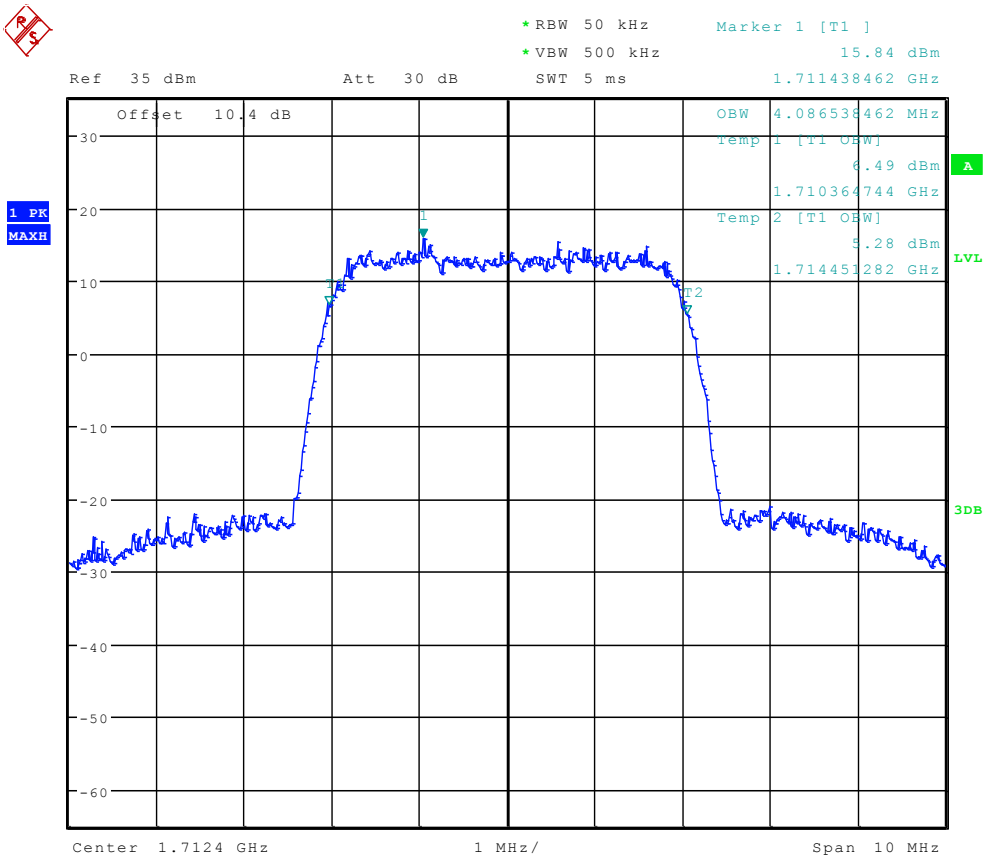
According to FCC Part 2.1049 & Part 27 Subpart C&L

Result Table

Table 1 Measurement Results

Test Mode	RF Channel	Occupied Bandwidth [MHz]	Verdict
TM1	1312	4.09	Pass
	1412	4.07	Pass
	1513	4.05	Pass

TM1: WCDMA
Channel 1312



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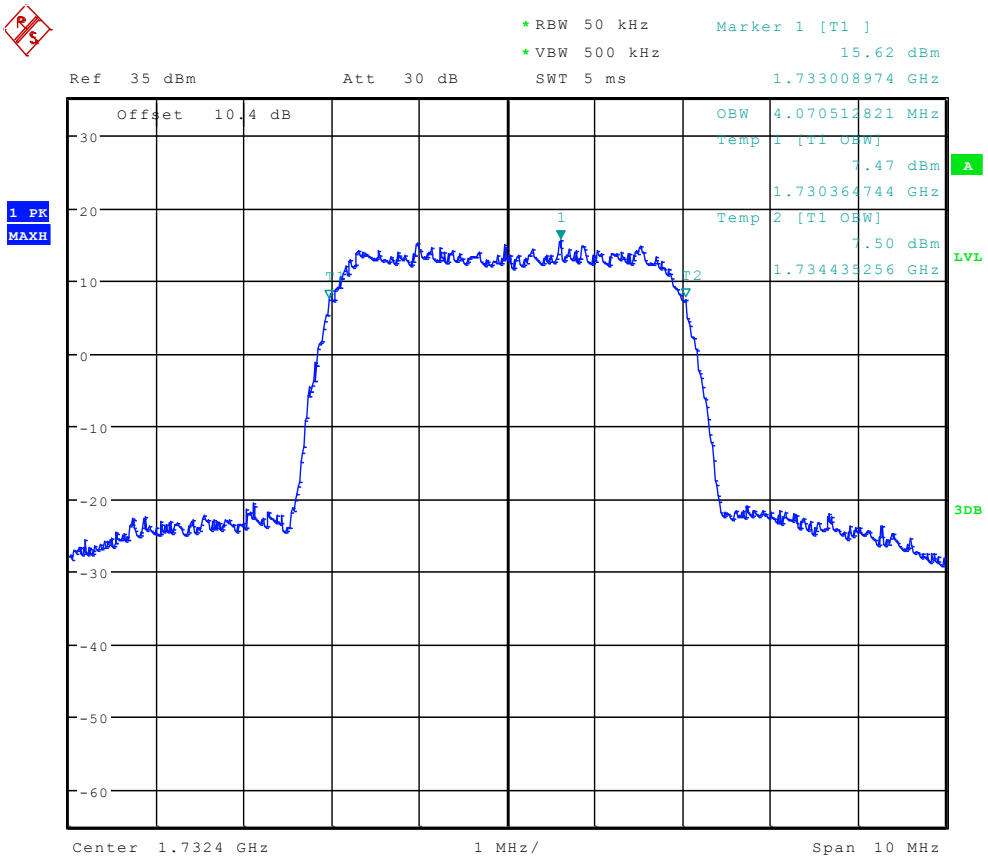
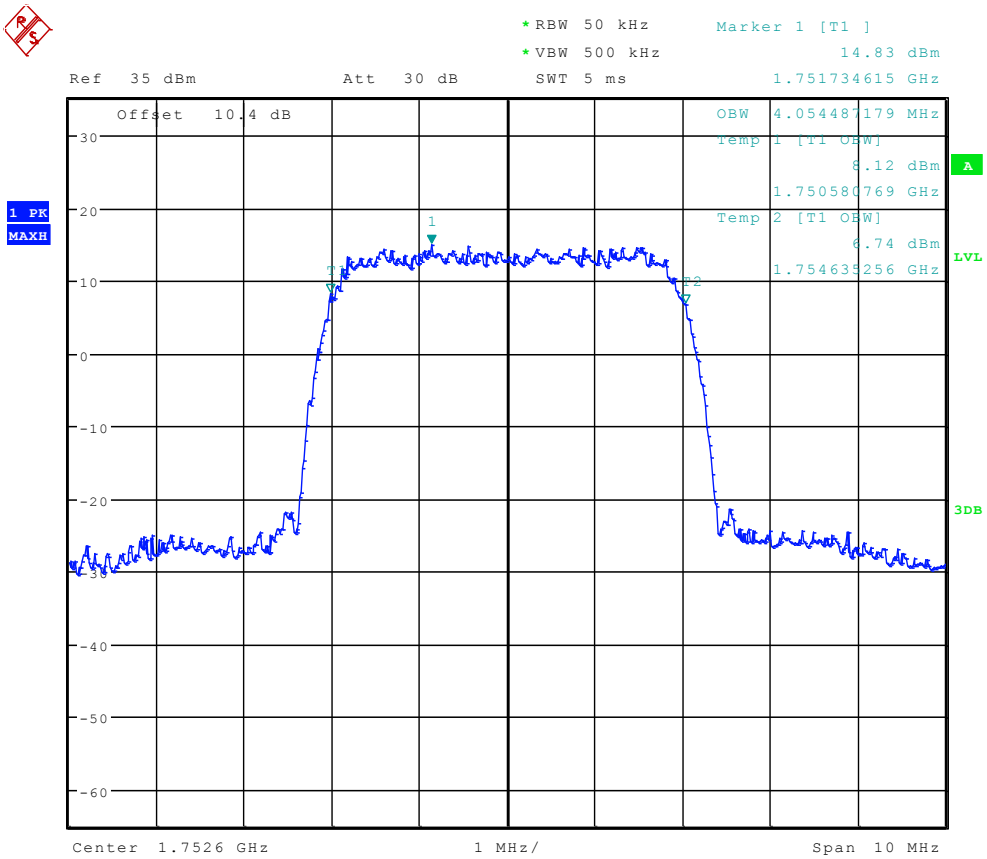
Channel 1412



Date: 9.FEB.2012 00:14:01

Channel 1513



Date: 9.FEB.2012 00:14:15

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Appendix D

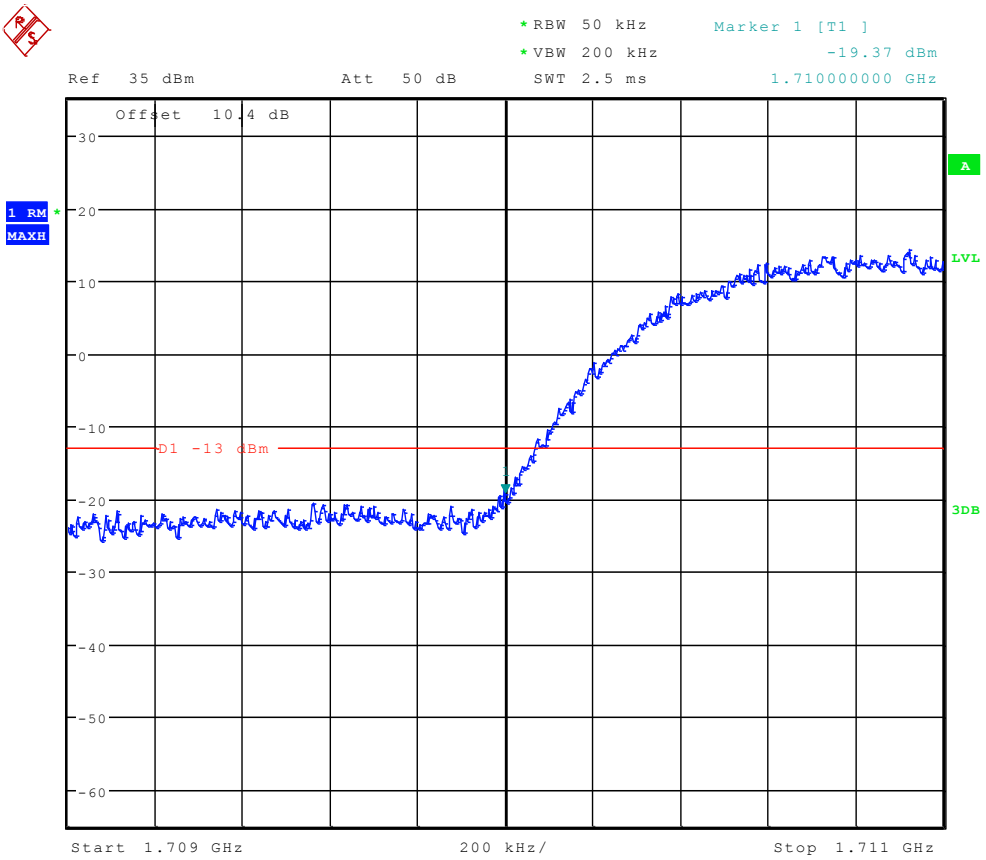
Band Edges Compliance

According to FCC Part 2.1051 & Part 27 Subpart C&L

TM1: WCDMA

Left Edge

Channel 1312



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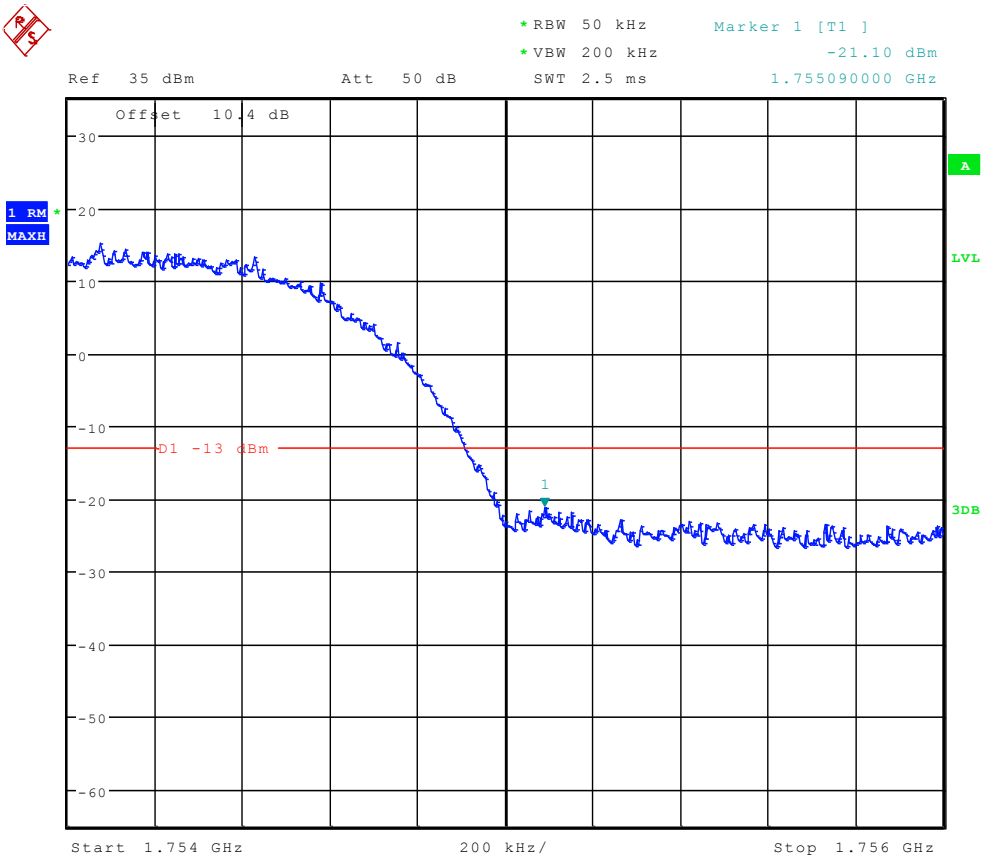
Right Edge
Channel 1513



Date: 9.FEB.2012 00:14:43

----------The END----------

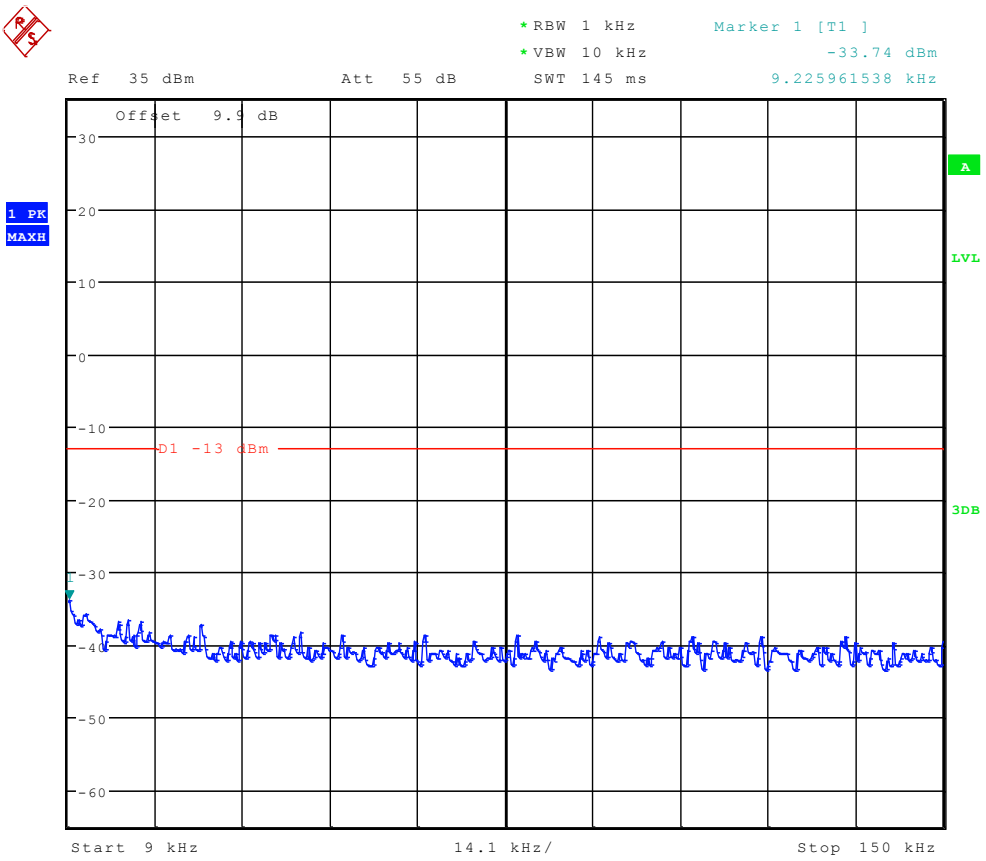
Appendix E

Spurious Emission at Antenna Terminal

According to FCC Part 2.1051 & Part 27 Subpart C&L

TM1: WCDMA

Channel 1312



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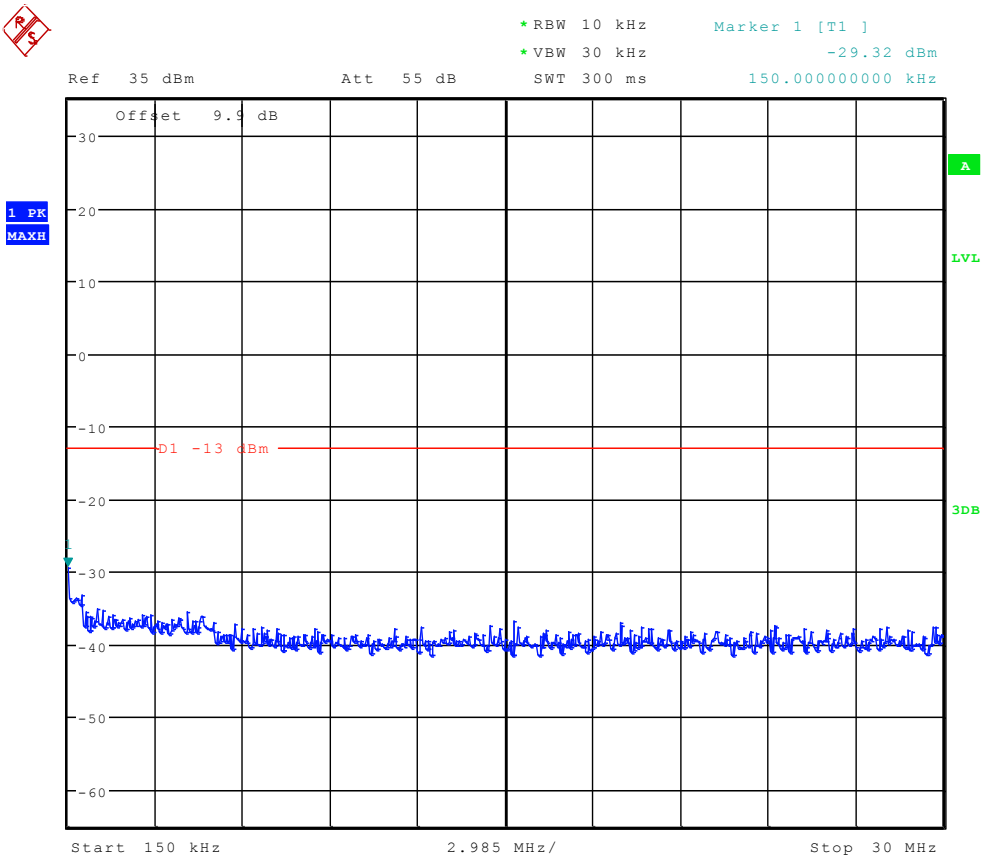

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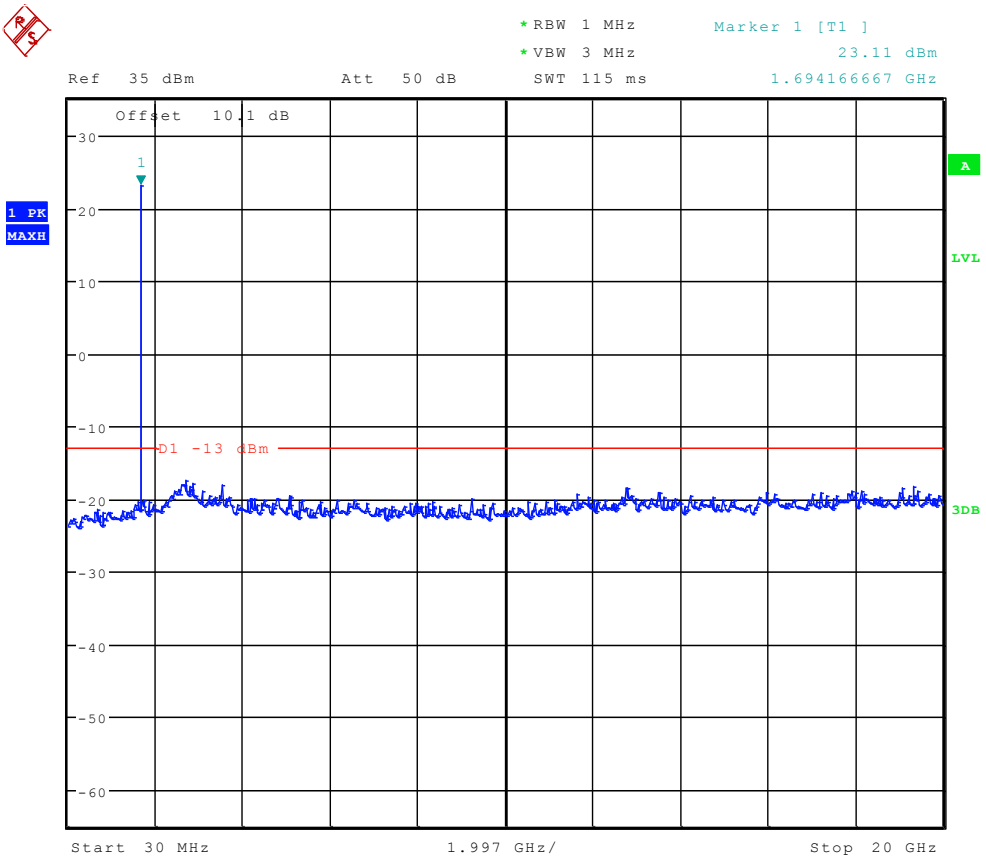
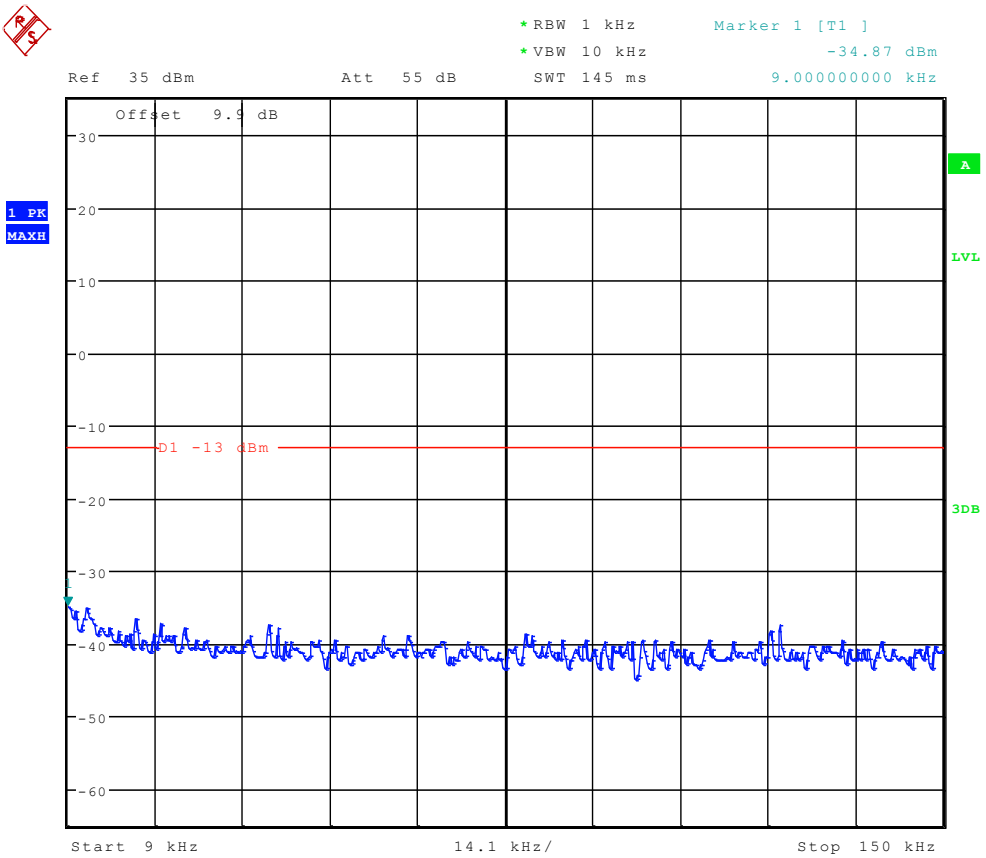


Date: 9.FEB.2012 00:16:25

Channel 1412



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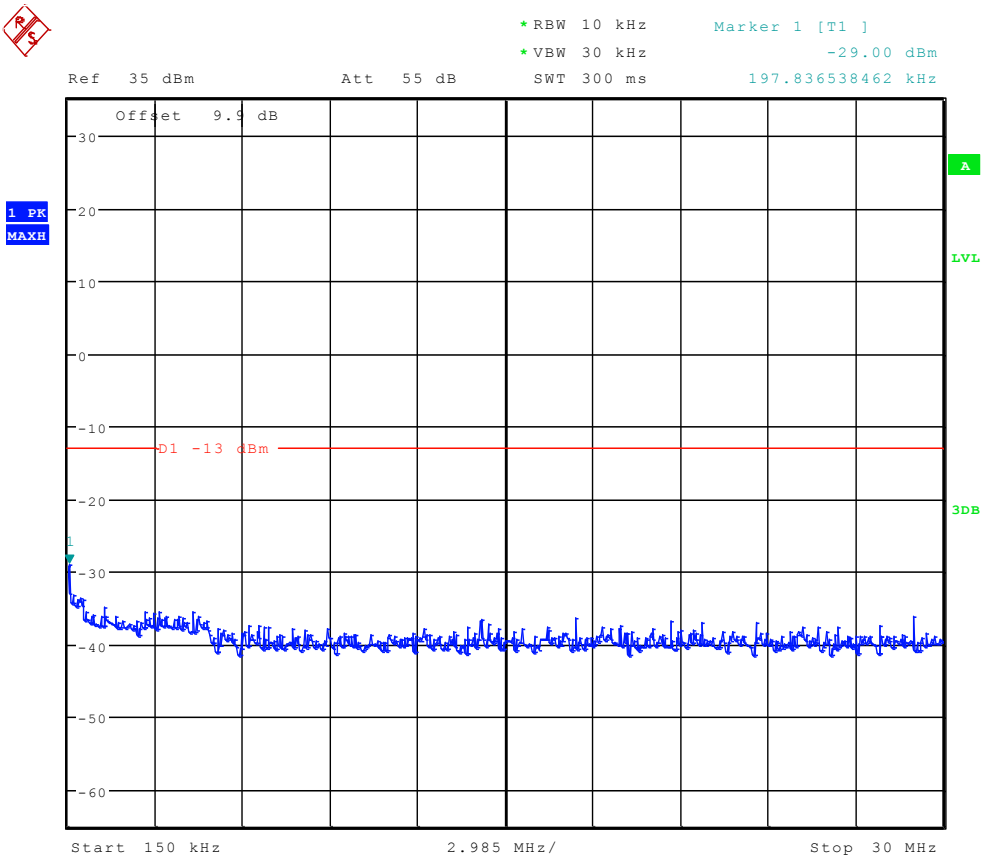

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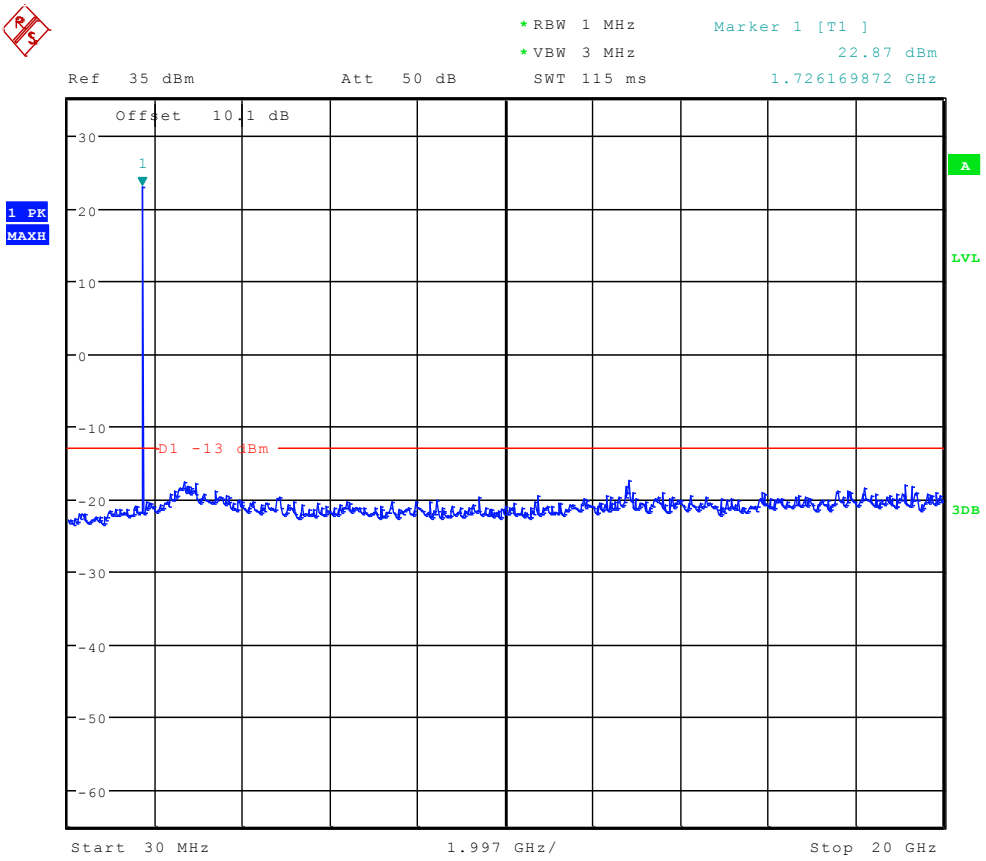
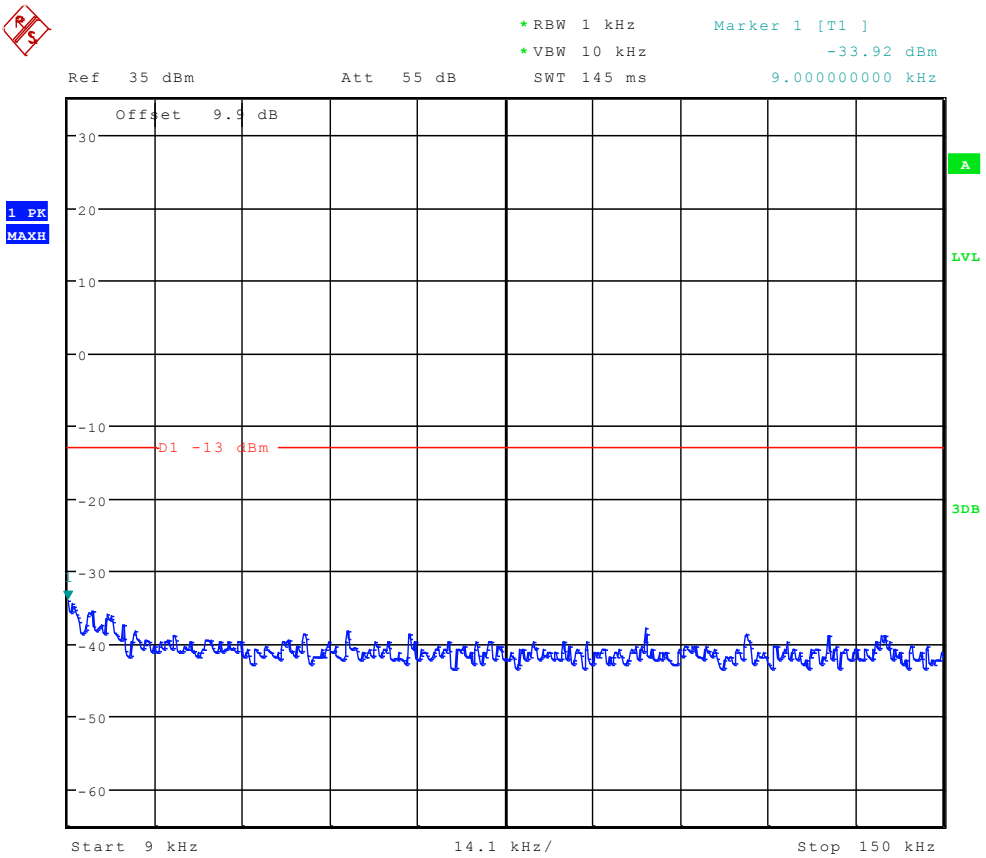


Date: 9.FEB.2012 00:16:39

Channel 1513



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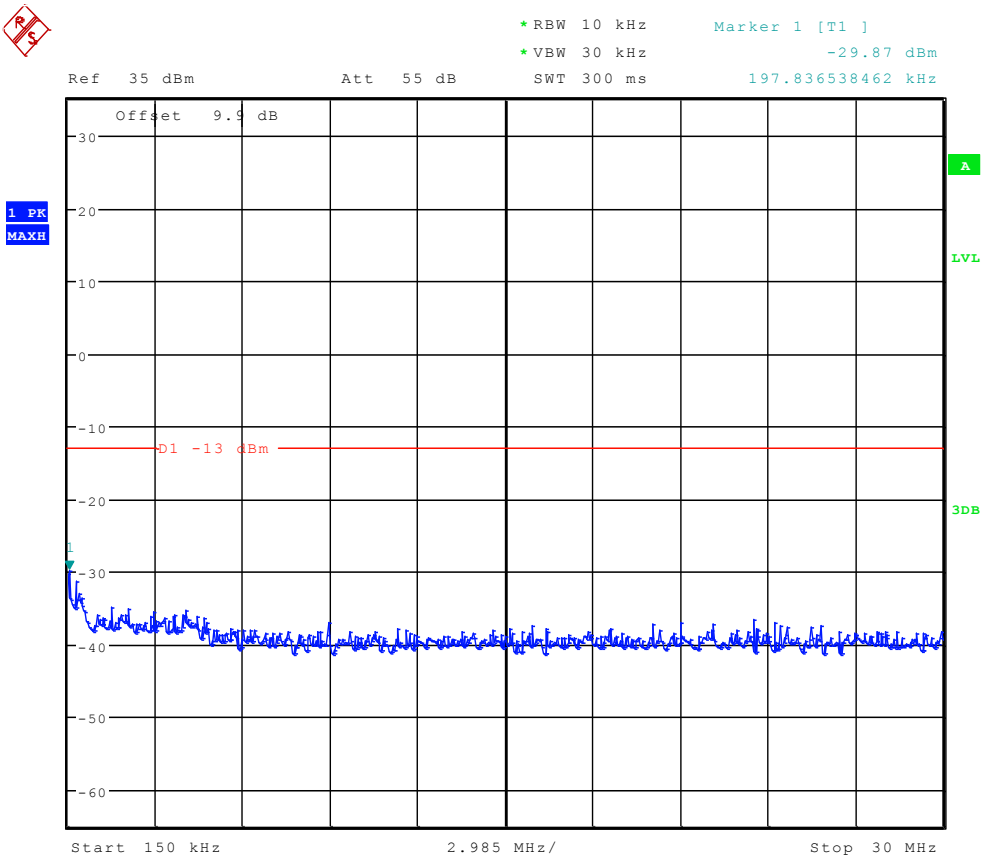

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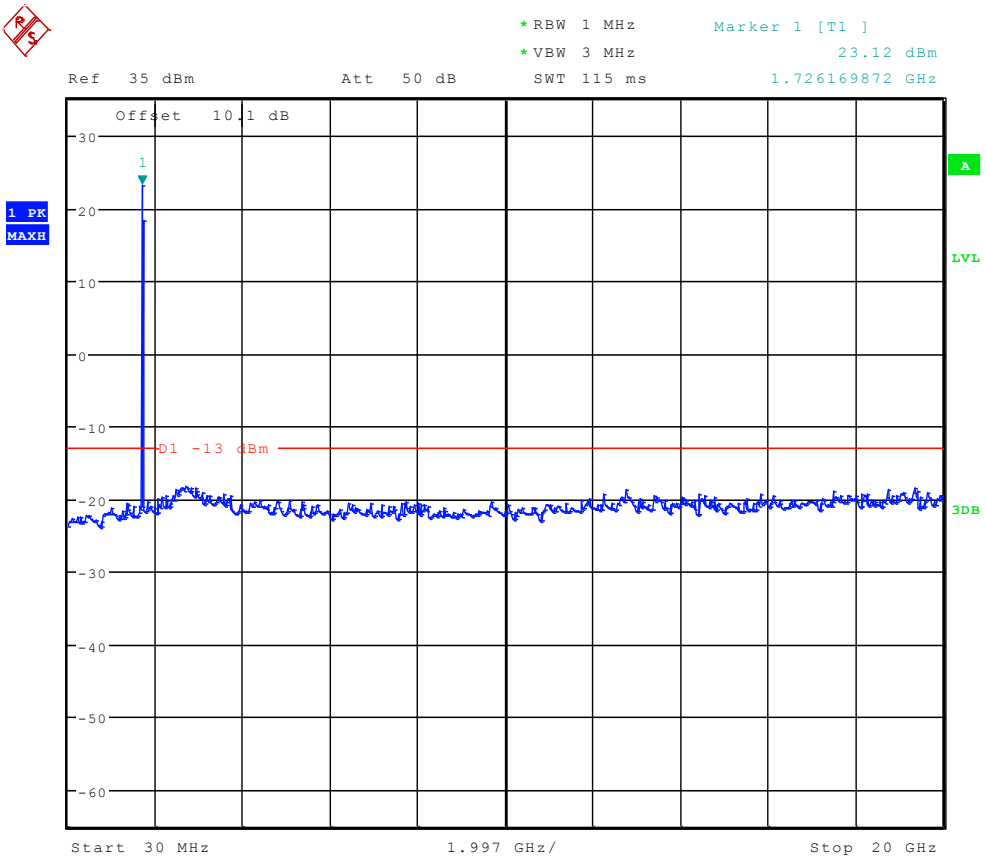


Date: 9.FEB.2012 00:16:54

----------The END----------

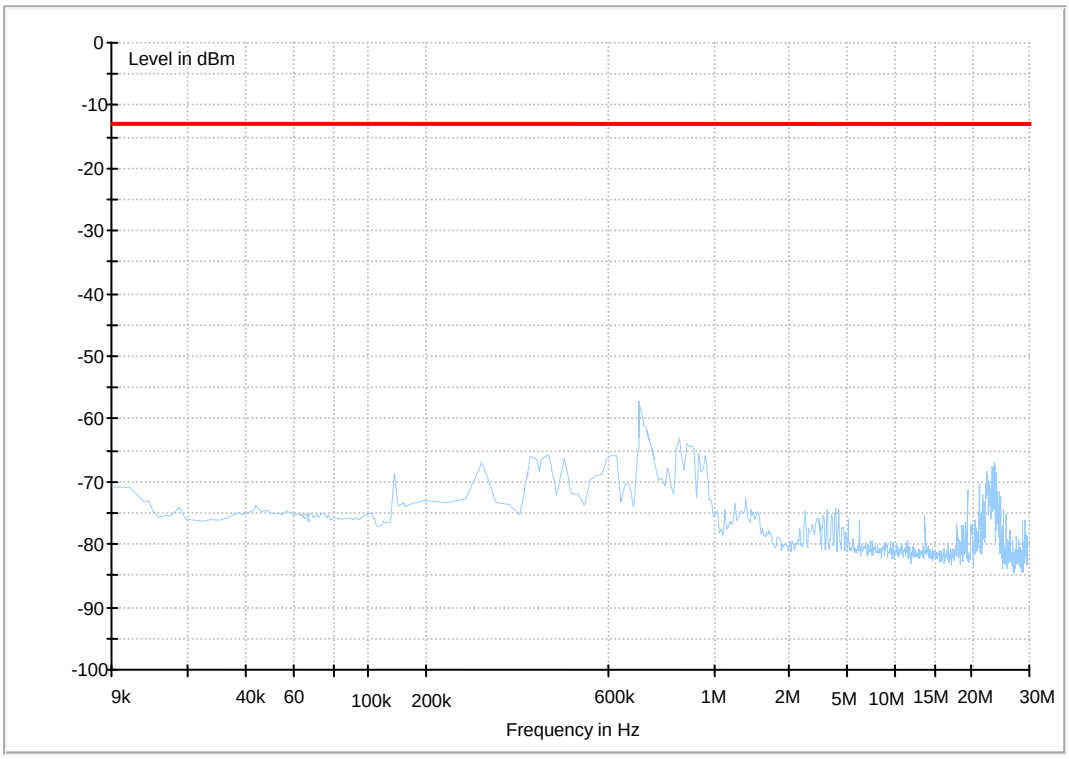
Appendix F

Radiated spurious emission

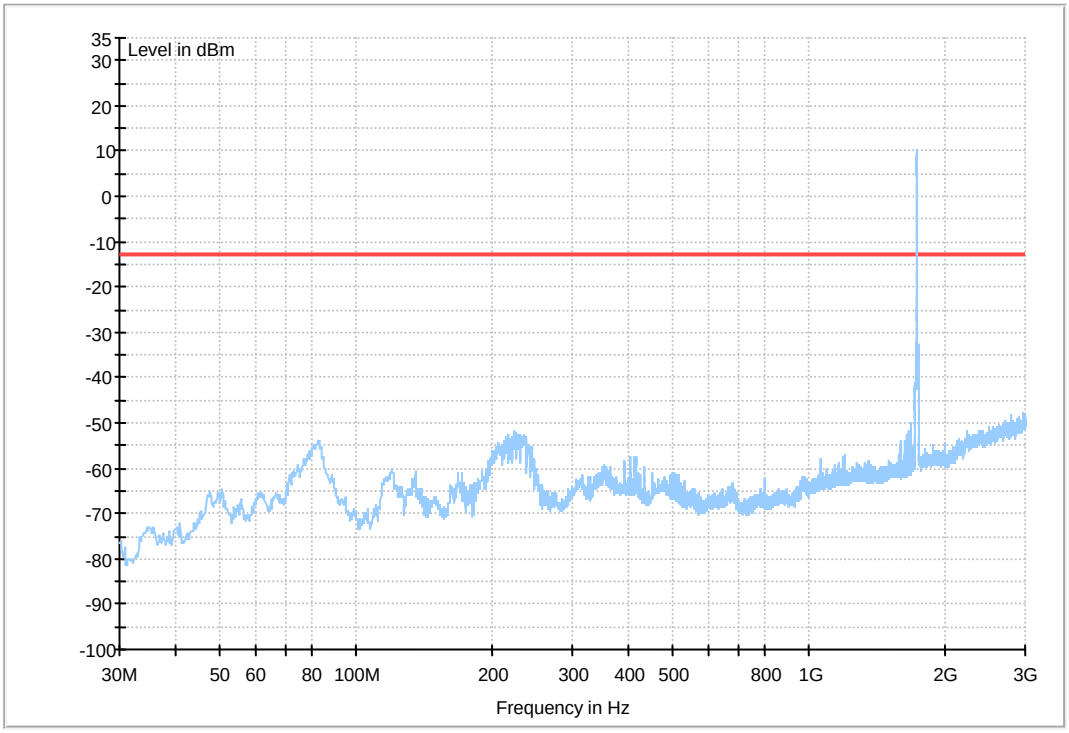
According to FCC Part 2.1053& Part 27.53(g)

WCDMA AWS

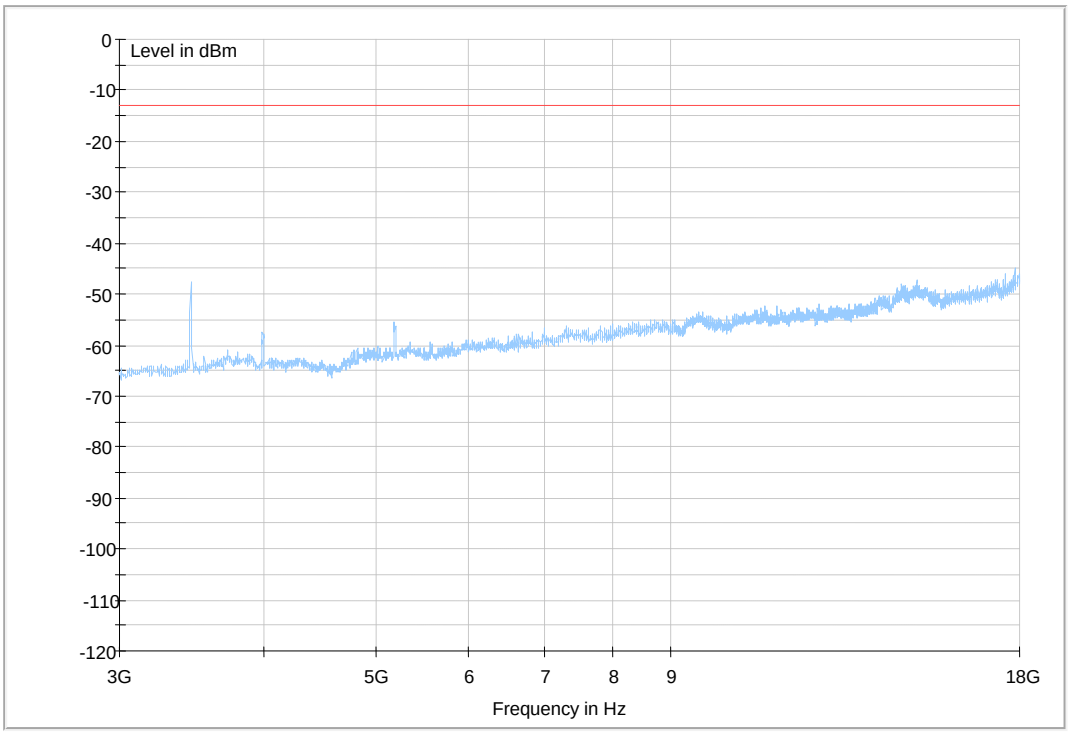
(9kHz~30MHz)



(30MHz~3GHz)

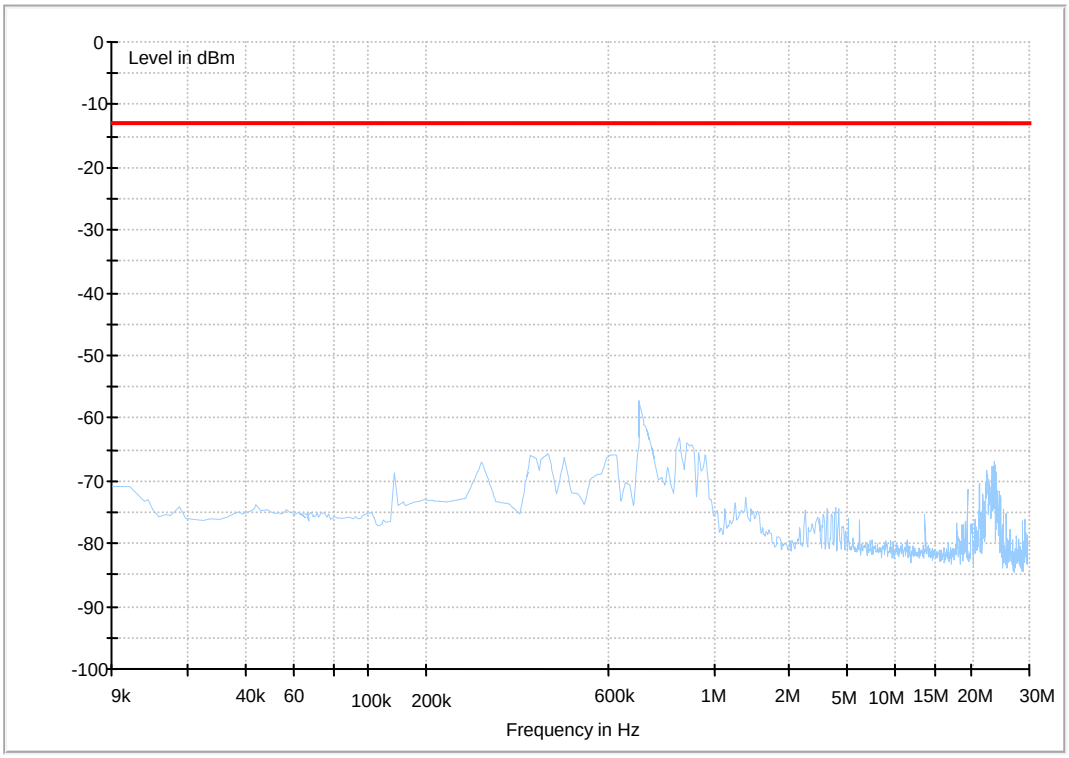


(3GHz~18GHz)

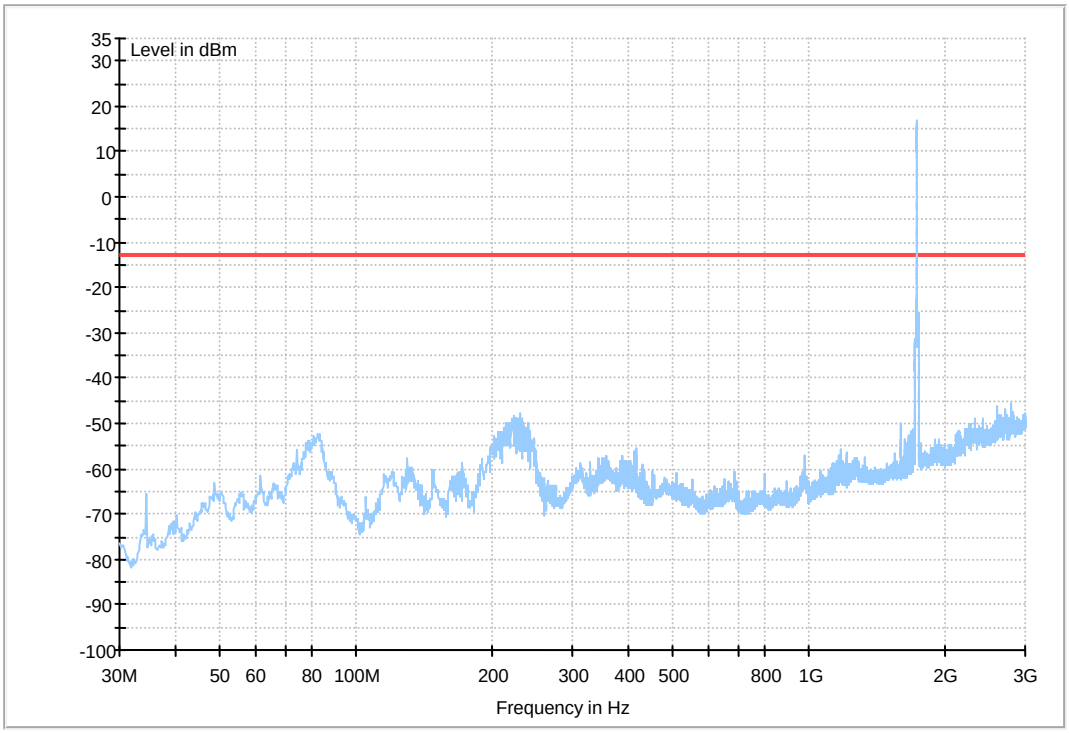

Level in dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
3G
5G
6
7
8
9
18G
Frequency in Hz

HSDPA AWS

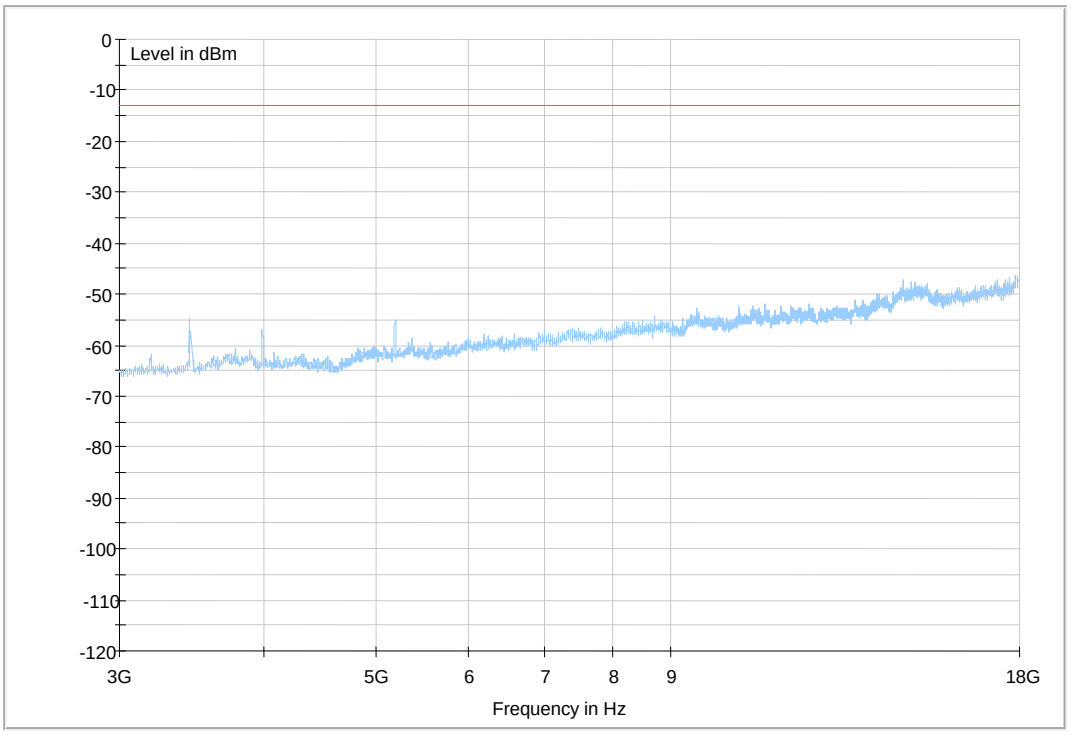
(9kHz~30MHz)



(30MHz~3GHz)

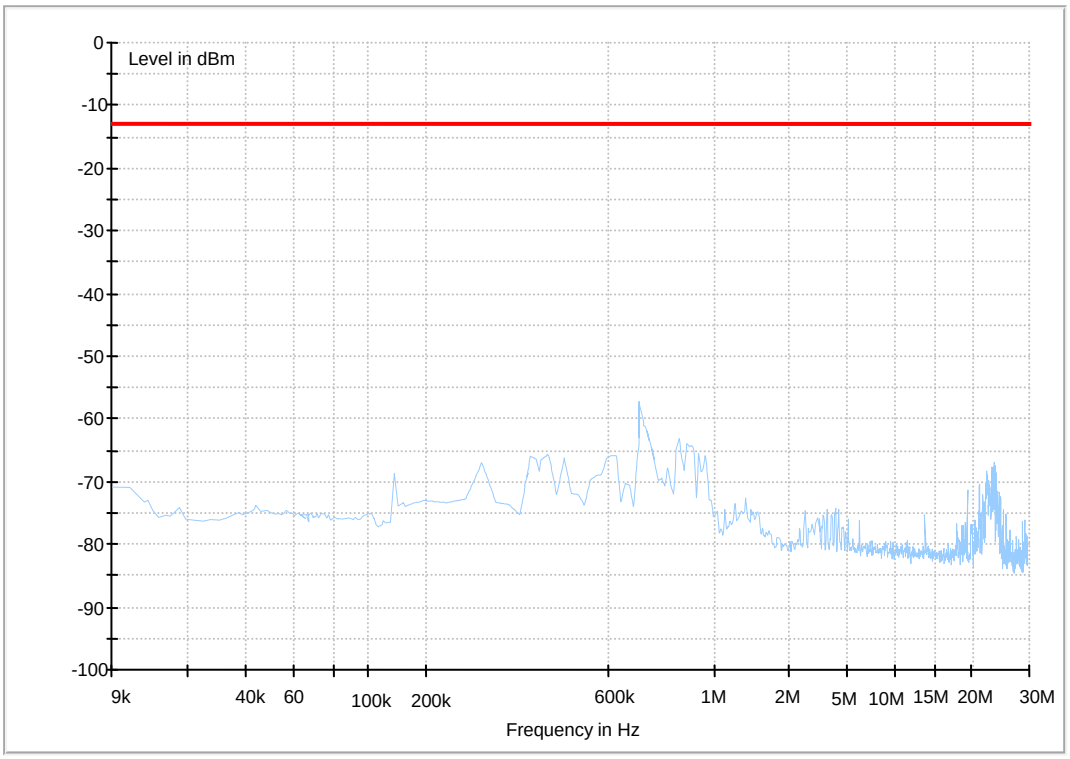


(3GHz~18GHz)

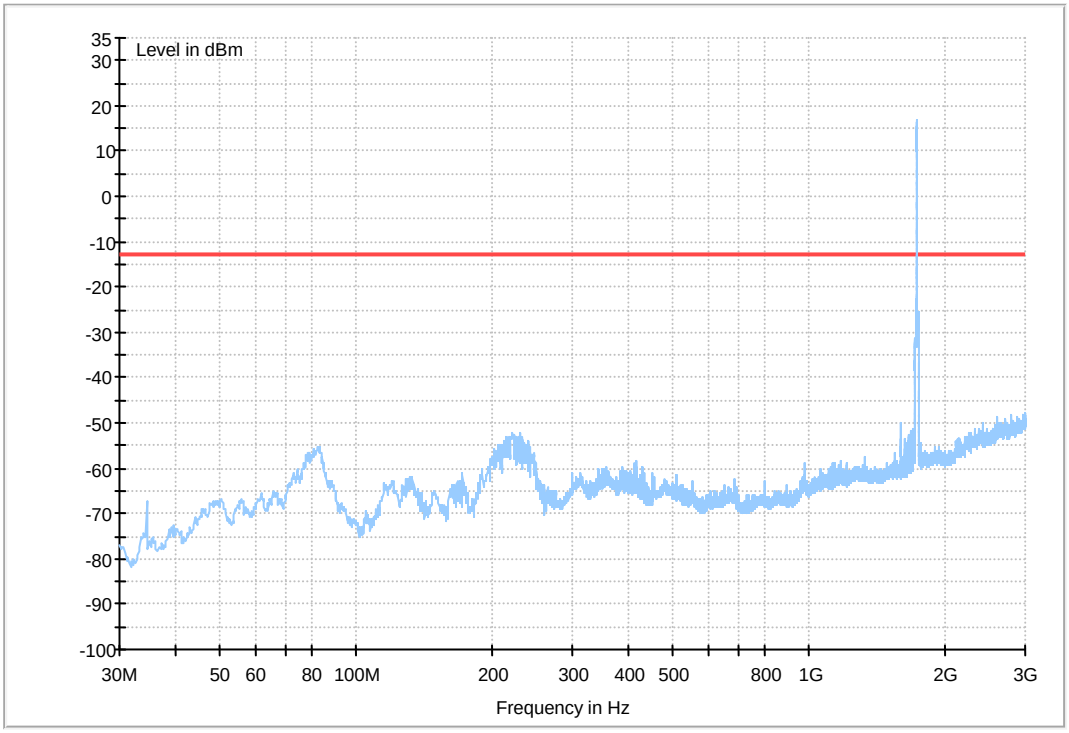

Level in dBm
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
3G
5G
6
7
8
9
18G
Frequency in Hz

HSUPA AWS

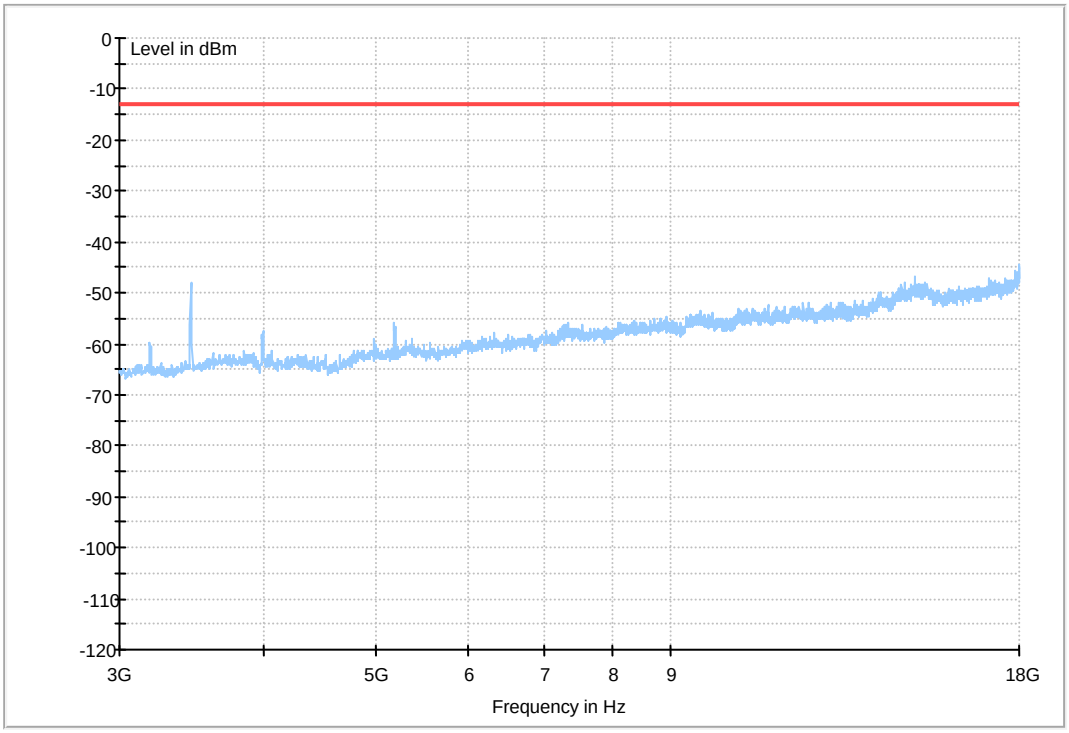
(9kHz~30MHz)



(30MHz~3GHz)



(3GHz~18GHz)



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Appendix G

Frequency Stability

According to FCC Part 2.1055& Part 27 Subpart C&L

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Frequency Error vs. Temperature:

Test Mode	RF Ch.	Volt.	Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM1	M	100%	-30 °C	8	0.0046	---	±2.5	Pass
			-20 °C	13	0.0075	---	±2.5	Pass
			-10 °C	-10	0.0058	---	±2.5	Pass
			0 °C	17	0.0098	---	±2.5	Pass
			10 °C	12	0.0069	---	±2.5	Pass
			20 °C	-19	0.0110	---	±2.5	Pass
			30 °C	-9	0.0052	---	±2.5	Pass
			40 °C	11	0.0064	---	±2.5	Pass
			50 °C	-21	0.0121	---	±2.5	Pass

Frequency Error vs. Voltage:

Test Mode	RF Ch.	Temp.	Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Limit [ppm]	Verdict
TM1	M	20 °C	85 %	12	0.0069	---	±2.5	Pass
			100 %	-7	0.0040	---	±2.5	Pass
			115 %	16	0.0092	---	±2.5	Pass

----------The END----------