

3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

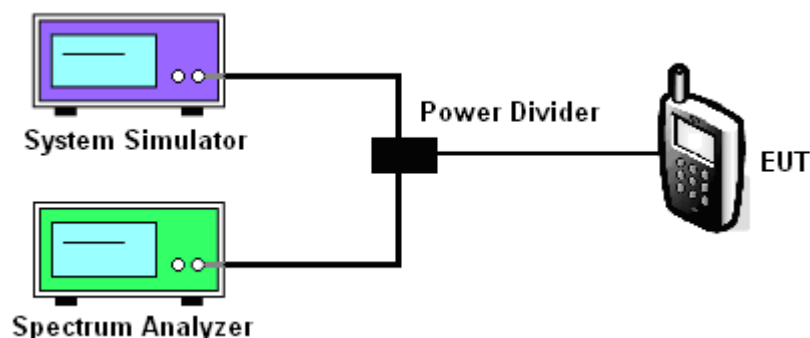
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was connected to the spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by an RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13\text{dBm}$.

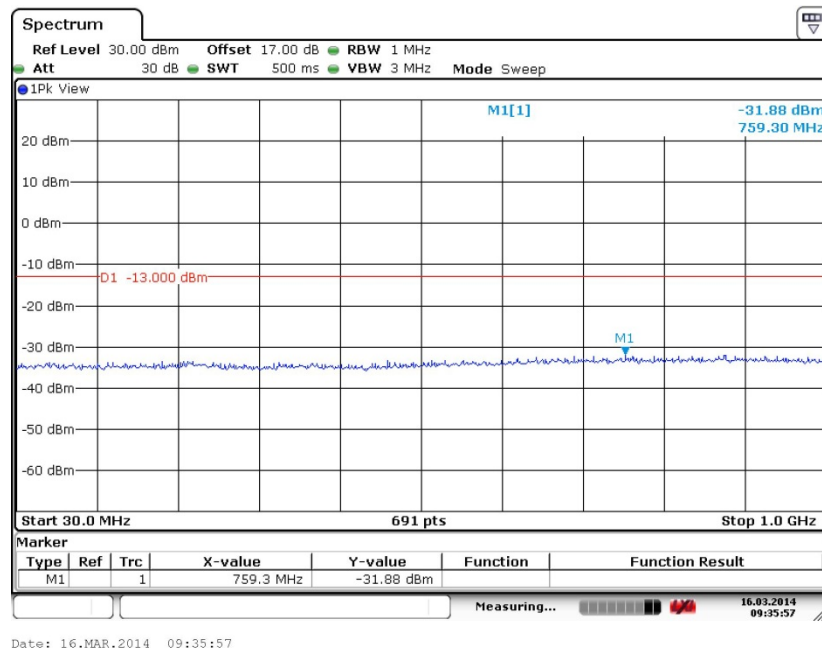
3.6.4 Test Setup



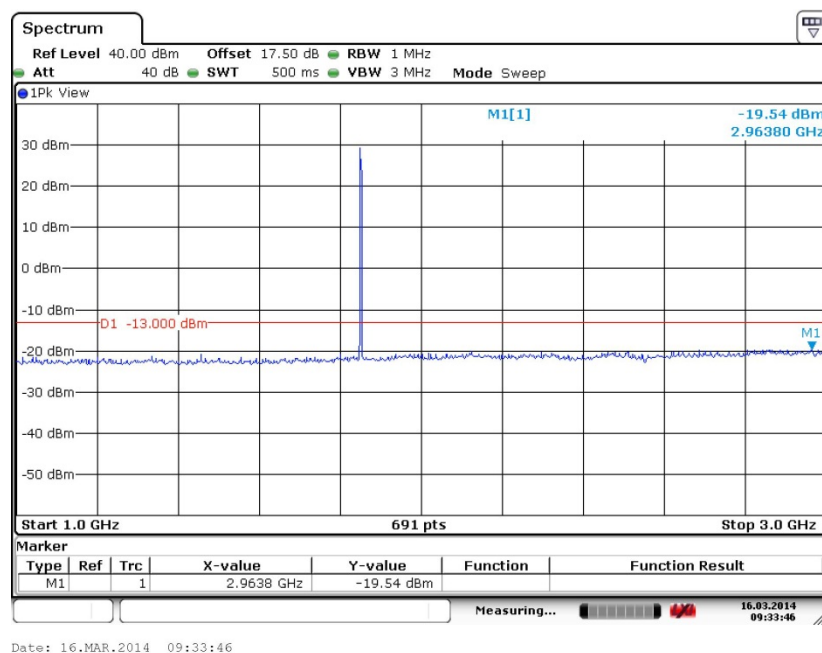
3.6.5 Test Result (Plots) of Conducted Spurious Emission

Band :	GSM1900	Channel :	CH512
Test Mode :	GSM Link (GMSK)	Frequency :	1850.2 MHz

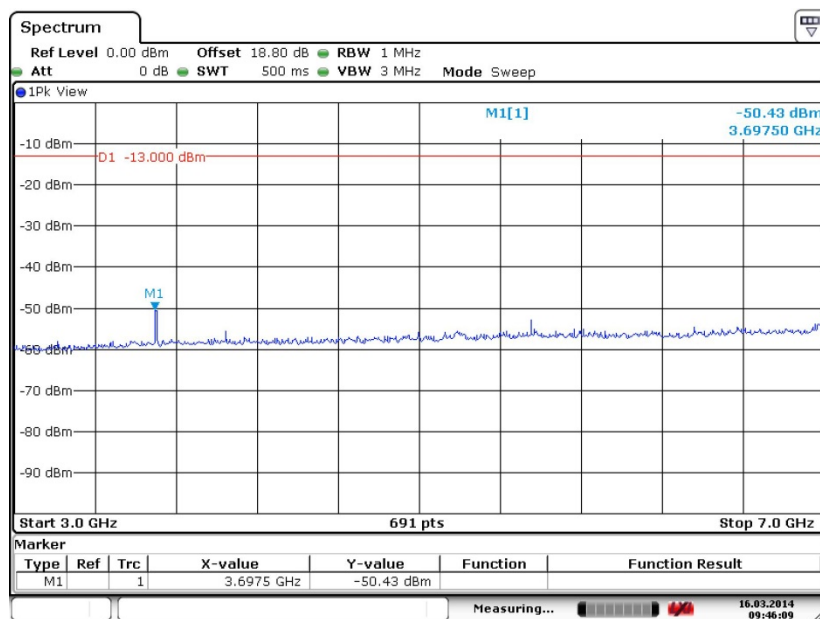
Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Conducted Spurious Emission Plot between 1GHz ~ 3GHz

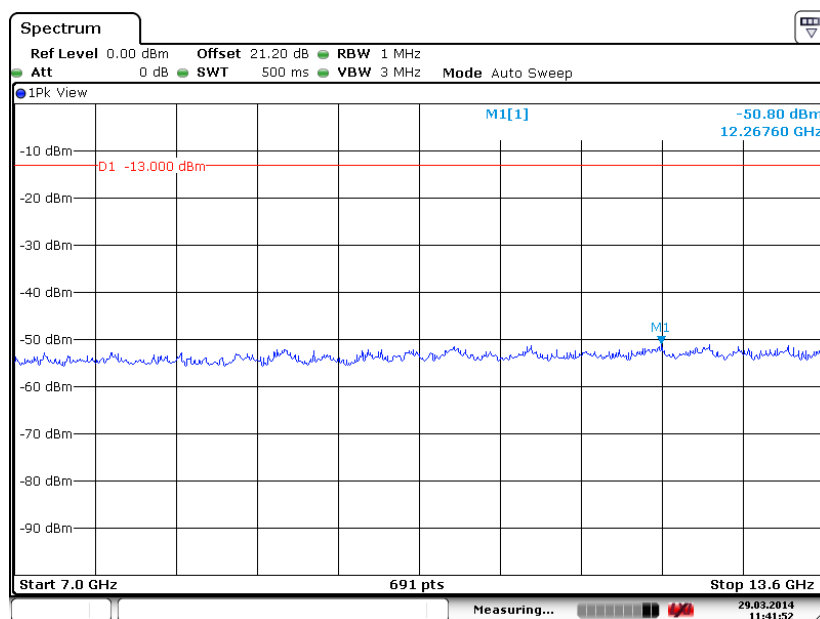


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2014 09:46:09

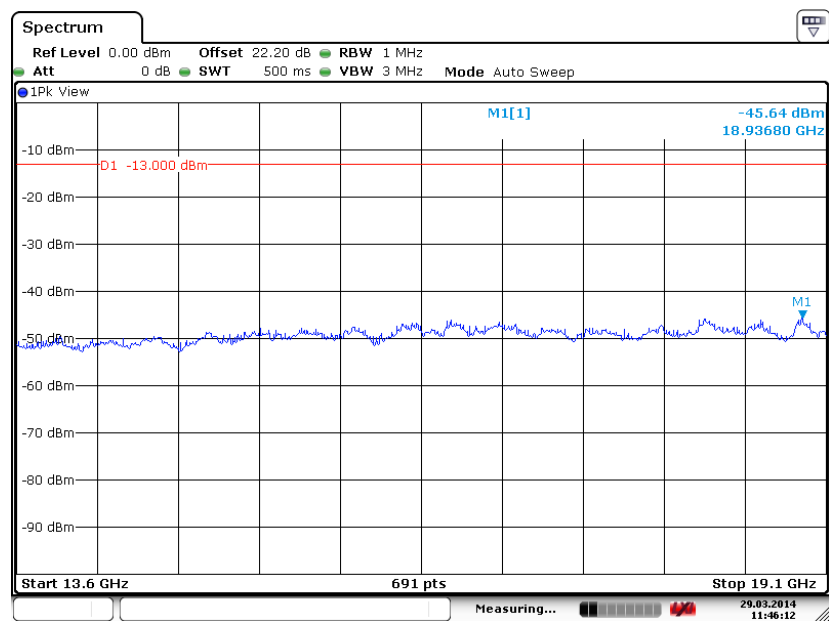
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 29.MAR.2014 11:41:52



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

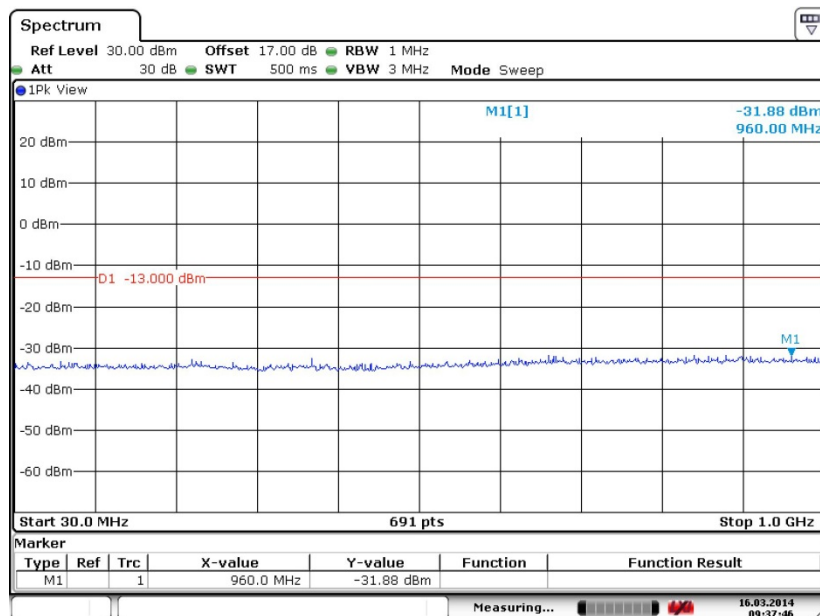


Date: 29.MAR.2014 11:46:11



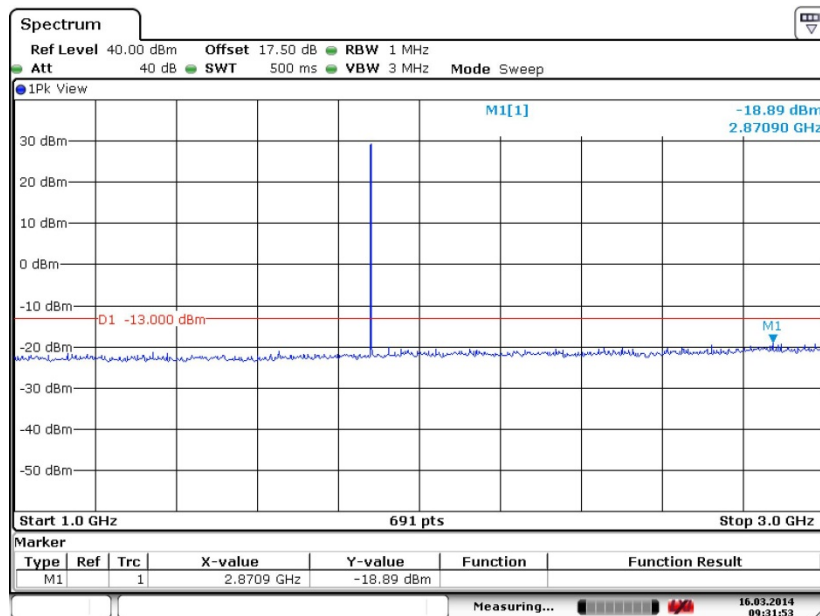
Band :	GSM1900	Channel :	CH661
Test Mode :	GSM Link (GMSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.MAR.2014 09:37:45

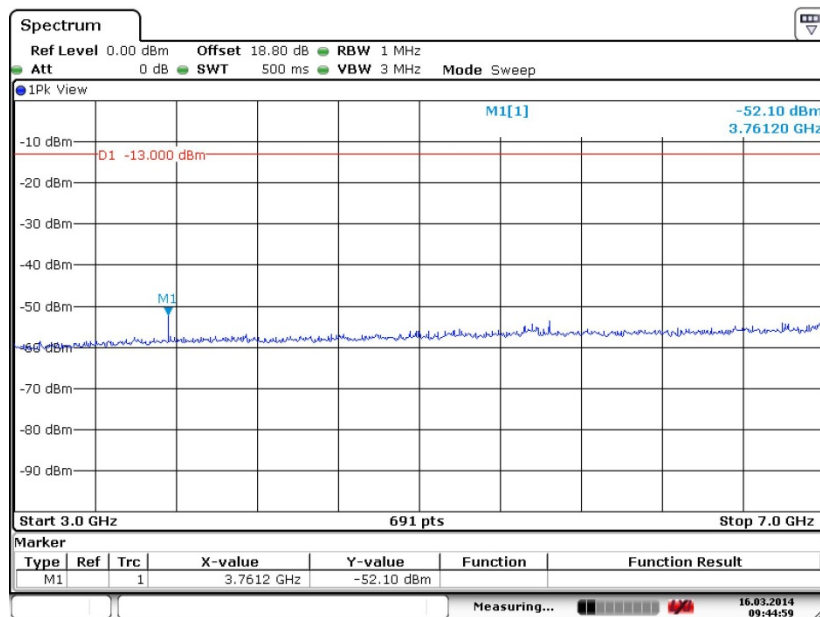
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2014 09:31:53

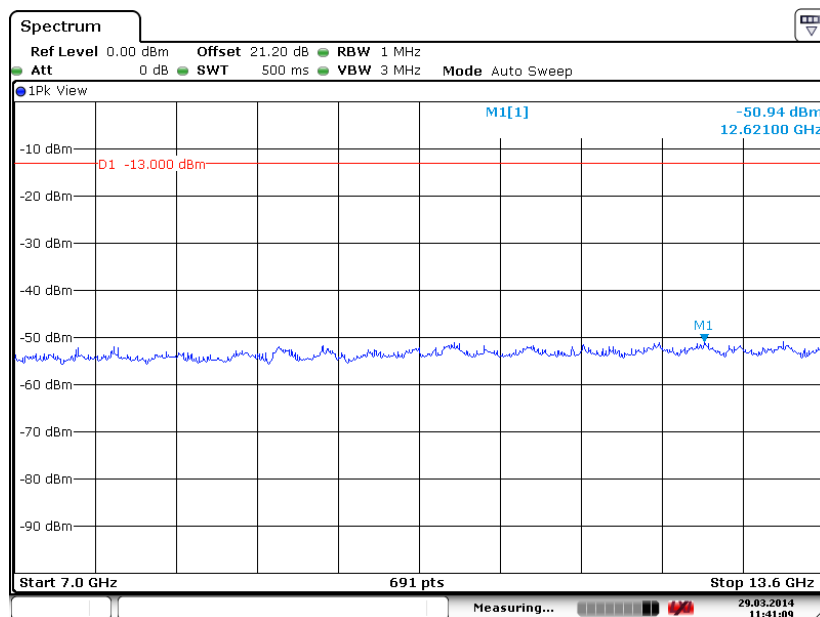


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2014 09:44:59

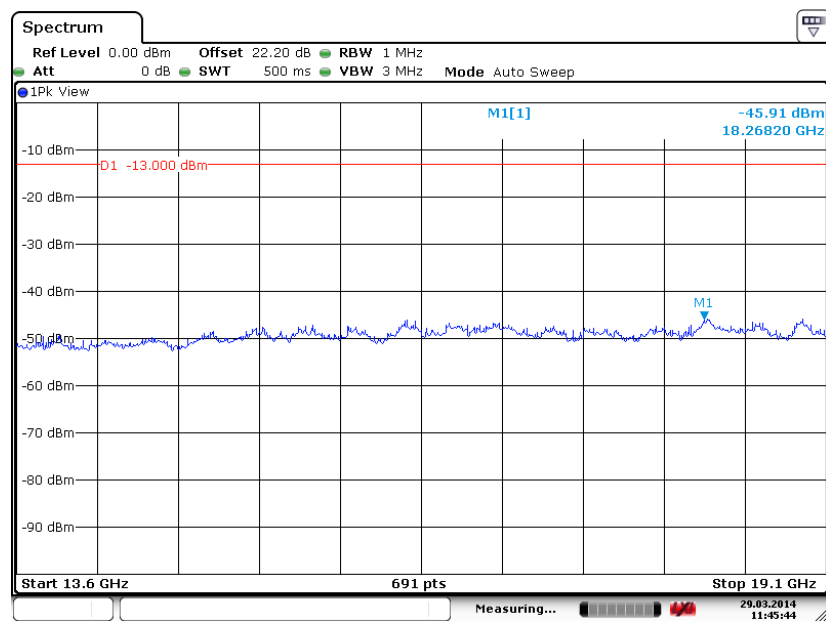
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 29.MAR.2014 11:41:09



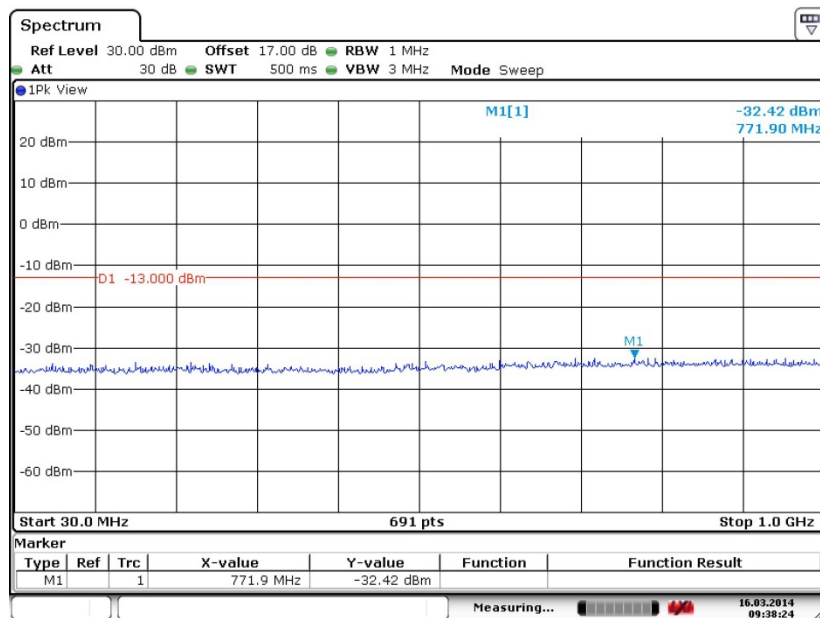
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 29.MAR.2014 11:45:44

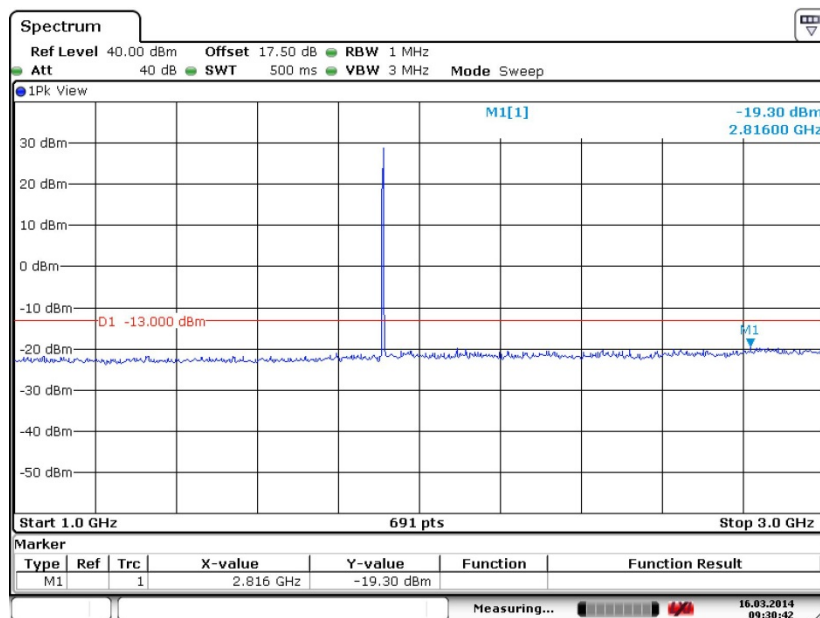
Band :	GSM1900	Channel :	CH810
Test Mode :	GSM Link (GMSK)	Frequency :	1909.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.MAR.2014 09:38:24

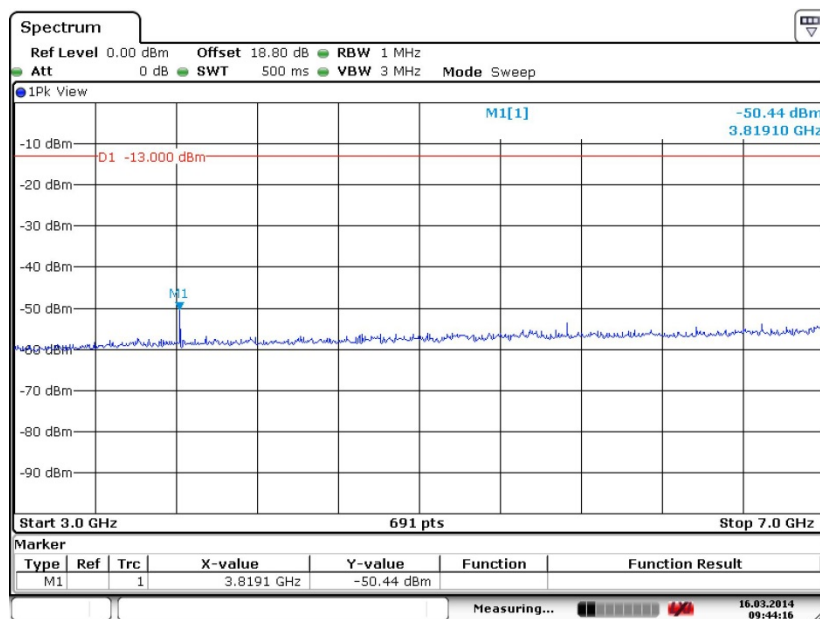
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2014 09:38:42

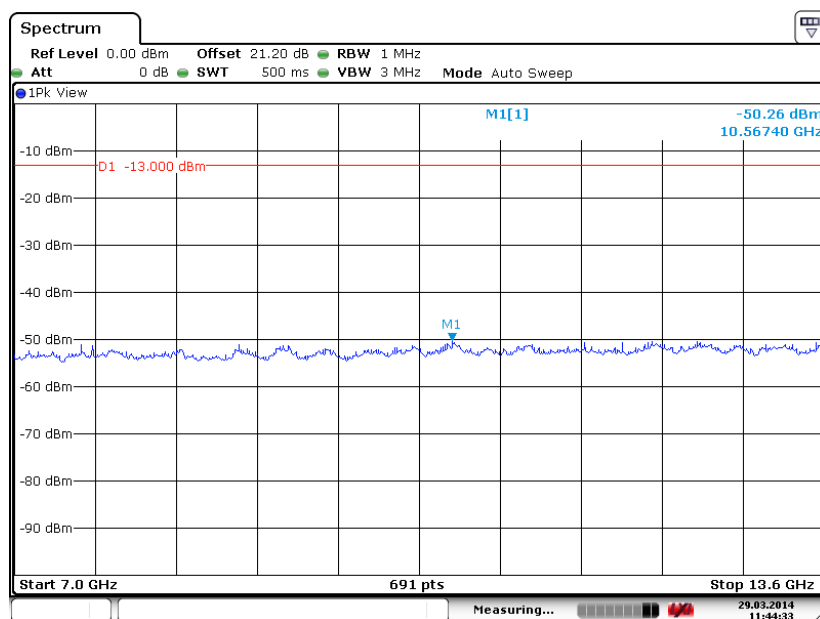


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



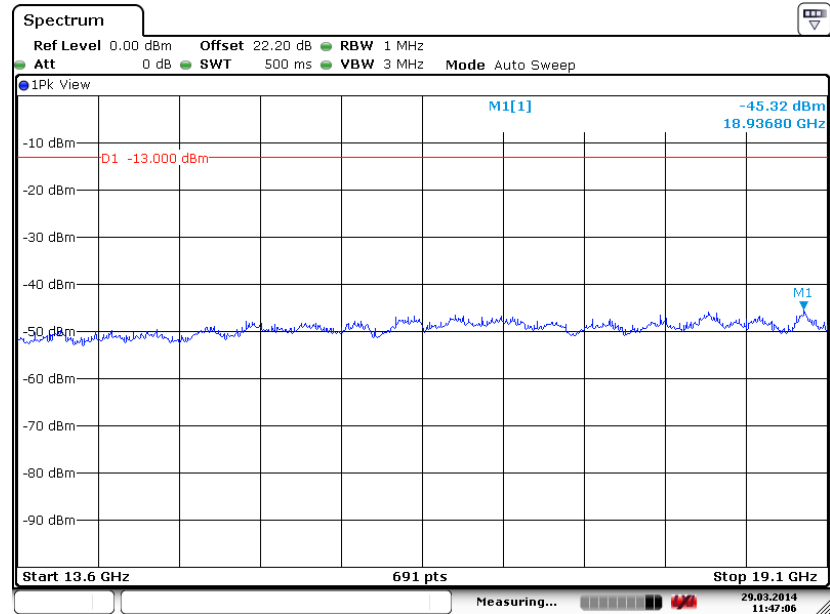
Date: 16.MAR.2014 09:44:16

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 29.MAR.2014 11:44:32

Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

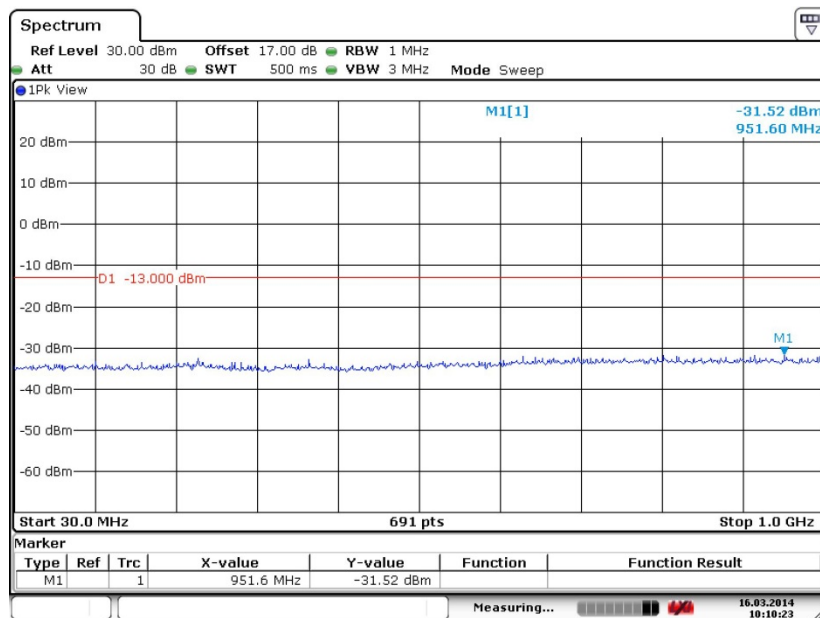


Date: 29.MAR.2014 11:47:06



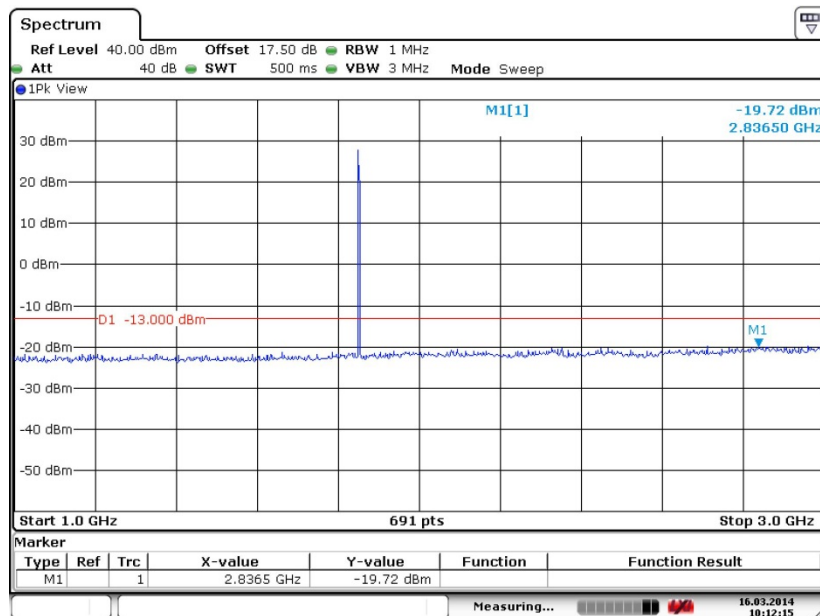
Band :	GSM1900	Channel :	CH512
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1850.2 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



Date: 16.MAR.2014 10:10:23

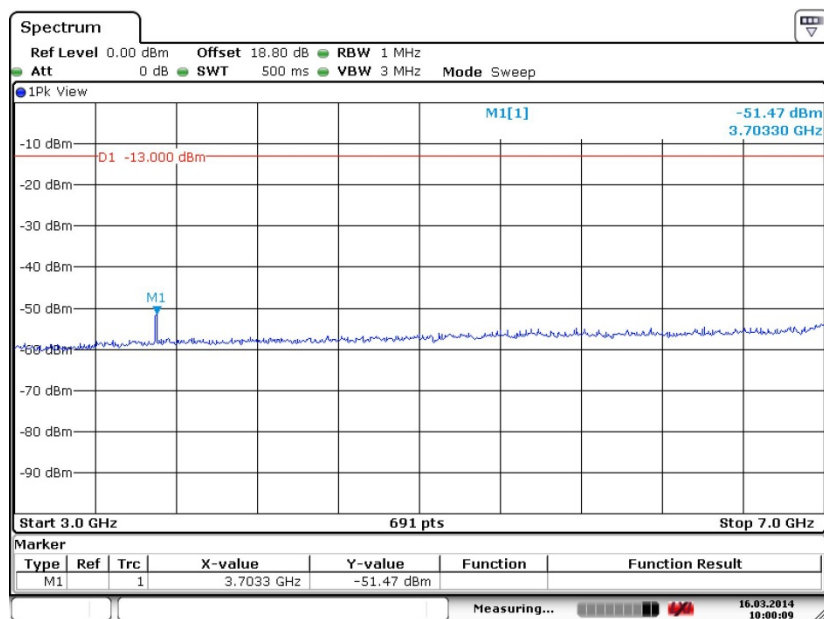
Conducted Spurious Emission Plot between 1GHz ~ 3GHz



Date: 16.MAR.2014 10:12:15

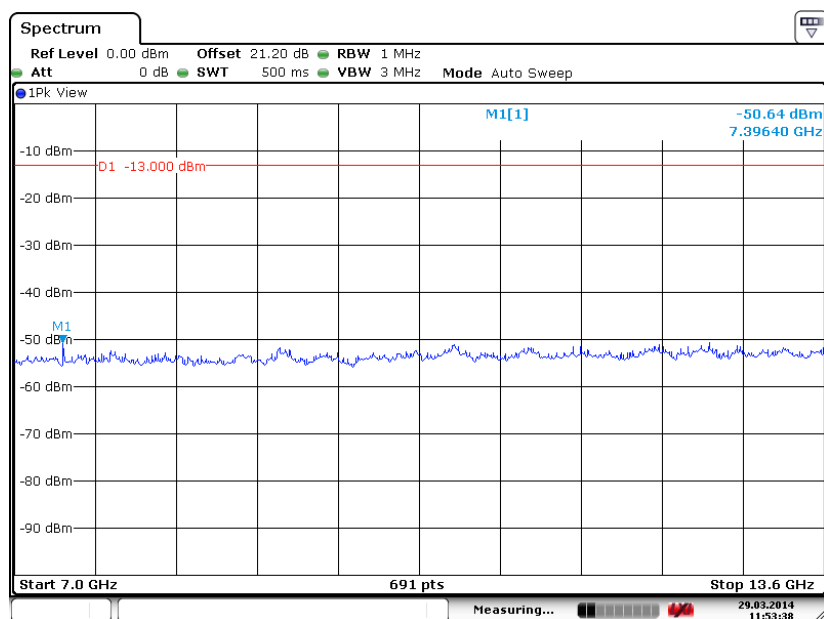


Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2014 10:00:09

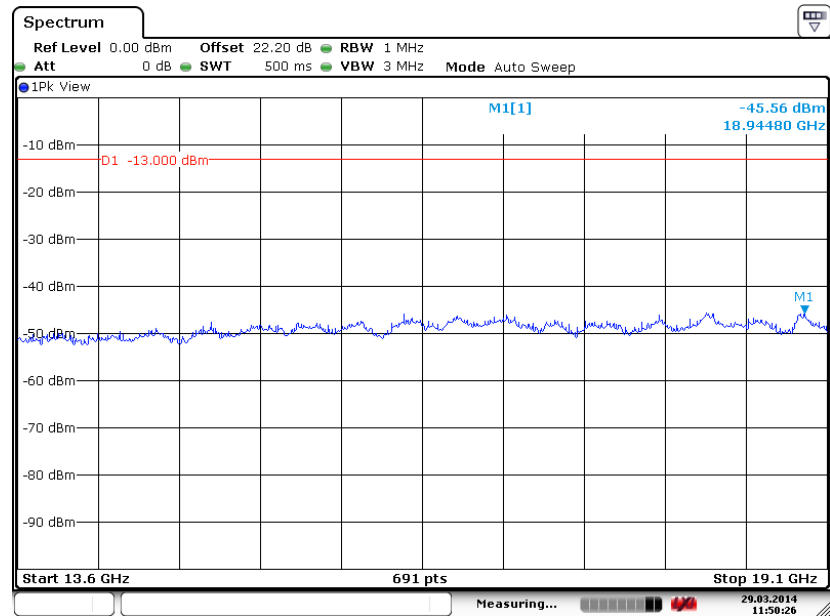
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 29.MAR.2014 11:53:38



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz

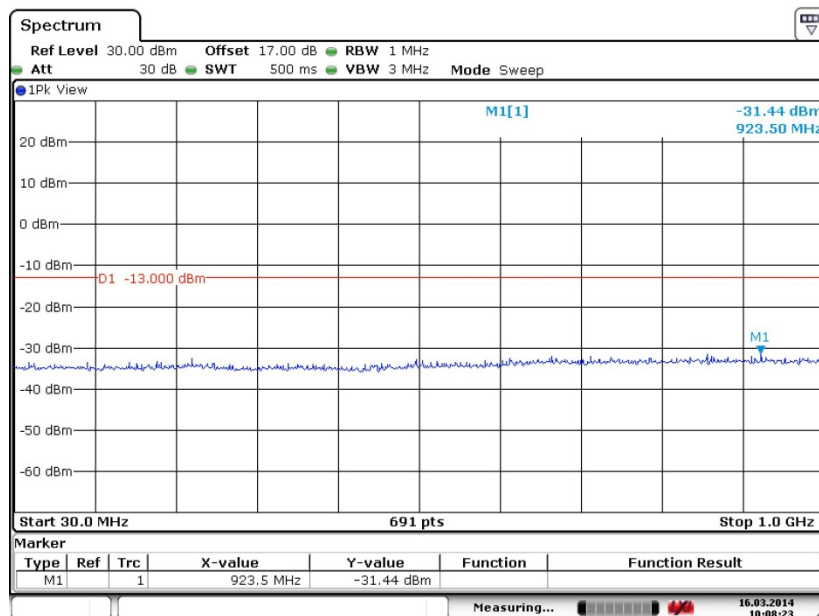


Date: 29.MAR.2014 11:50:25



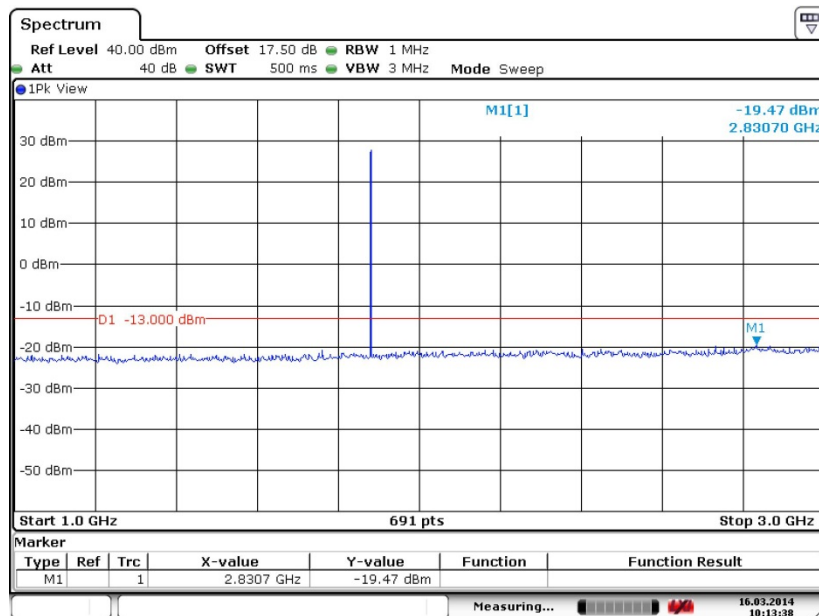
Band :	GSM1900	Channel :	CH661
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1880.0 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



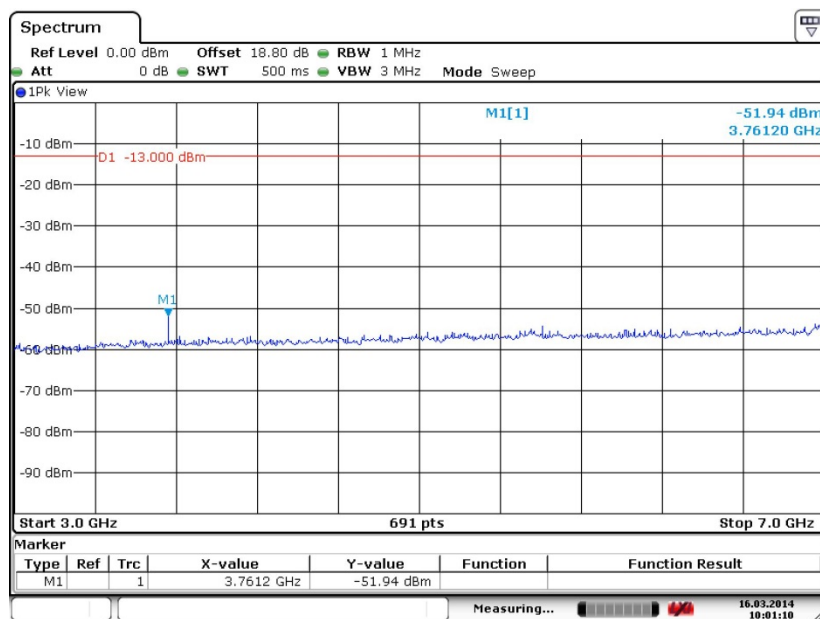
Date: 16.MAR.2014 10:08:23

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



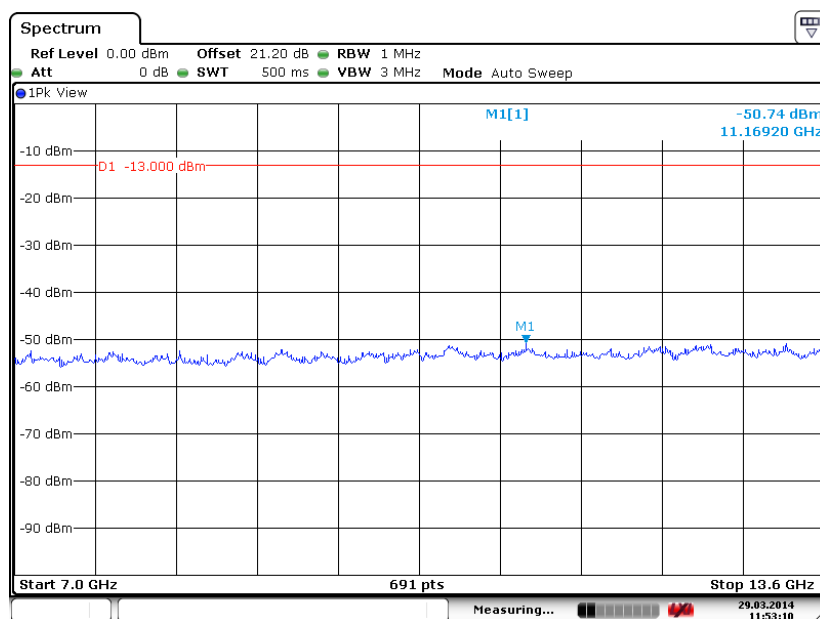
Date: 16.MAR.2014 10:13:38

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



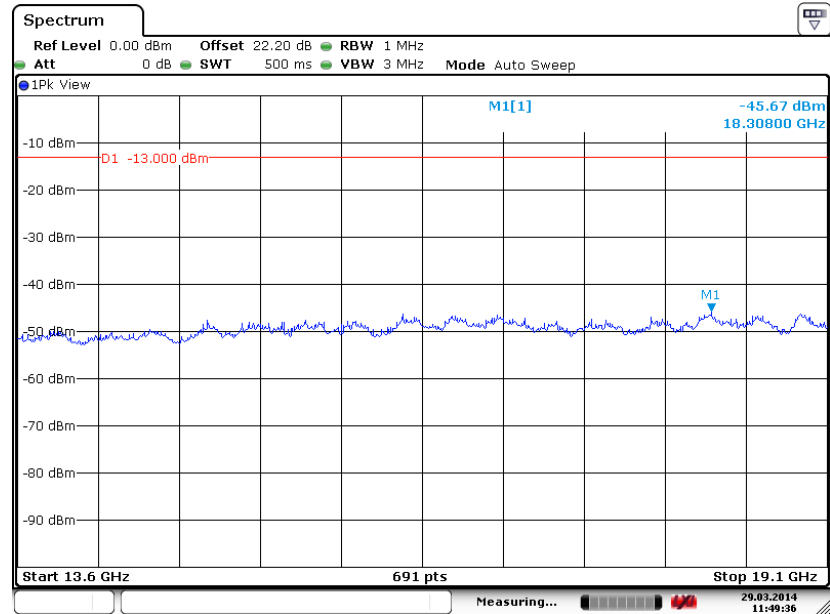
Date: 16.MAR.2014 10:01:10

Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 29.MAR.2014 11:53:10

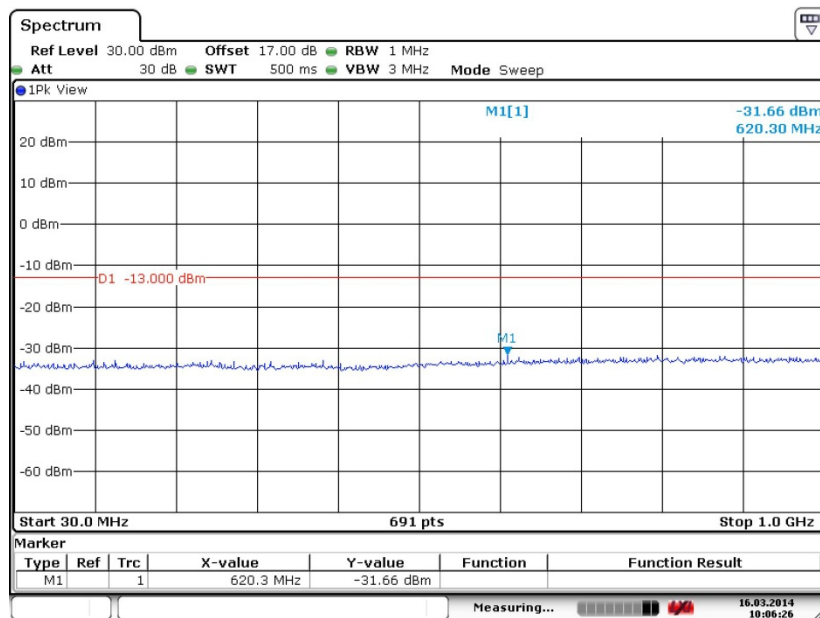
Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 29.MAR.2014 11:49:36

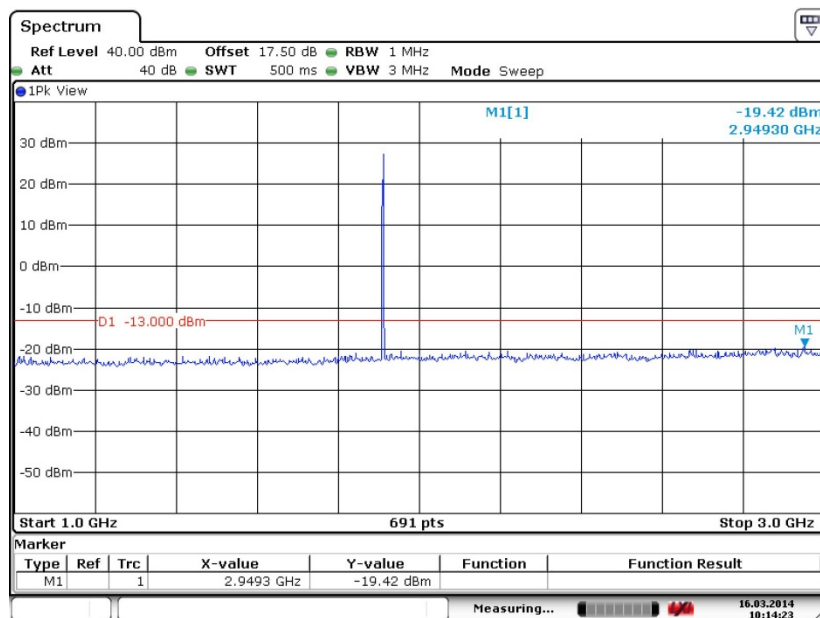
Band :	GSM1900	Channel :	CH810
Test Mode :	EDGE class 8 Link (8PSK)	Frequency :	1909.8 MHz

Conducted Spurious Emission Plot between 30MHz ~ 1GHz



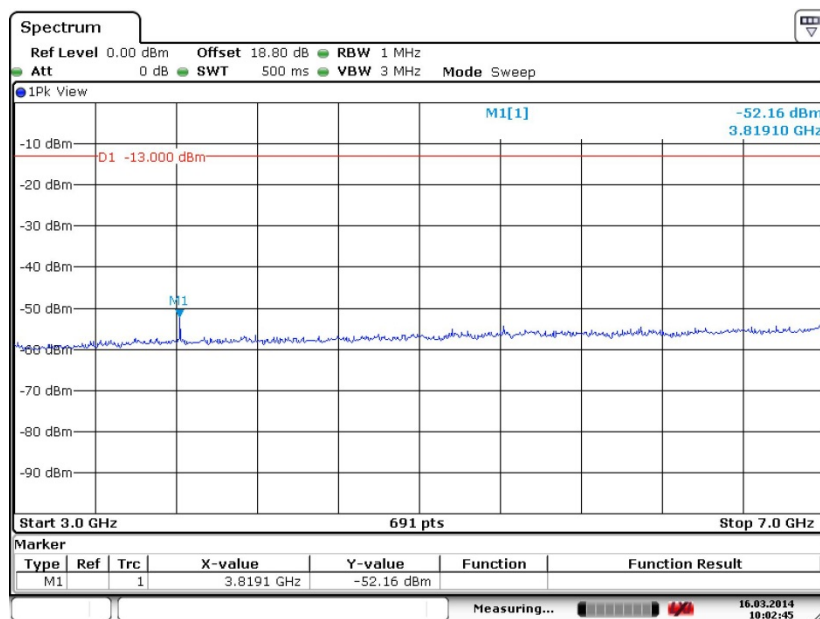
Date: 16.MAR.2014 10:06:26

Conducted Spurious Emission Plot between 1GHz ~ 3GHz



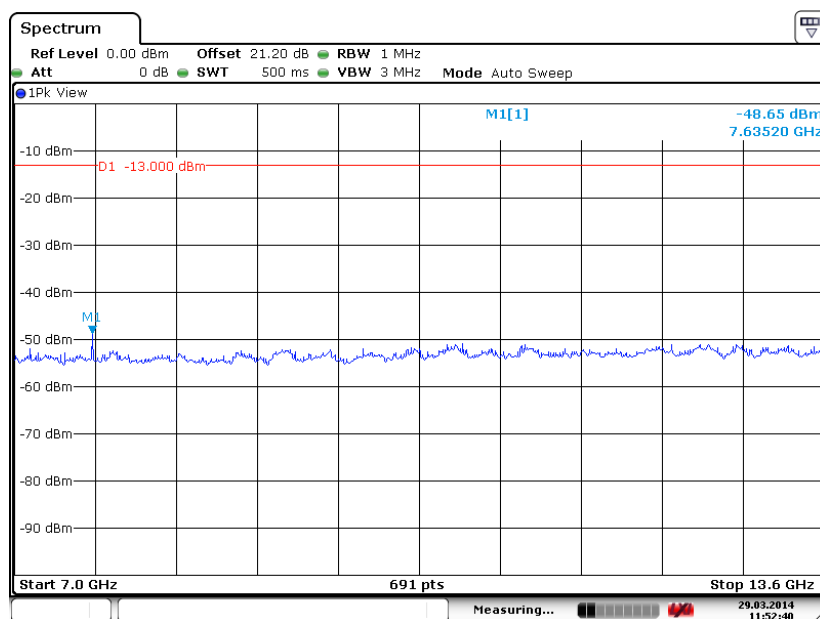
Date: 16.MAR.2014 10:14:22

Conducted Spurious Emission Plot between 3GHz ~ 7GHz



Date: 16.MAR.2014 10:02:45

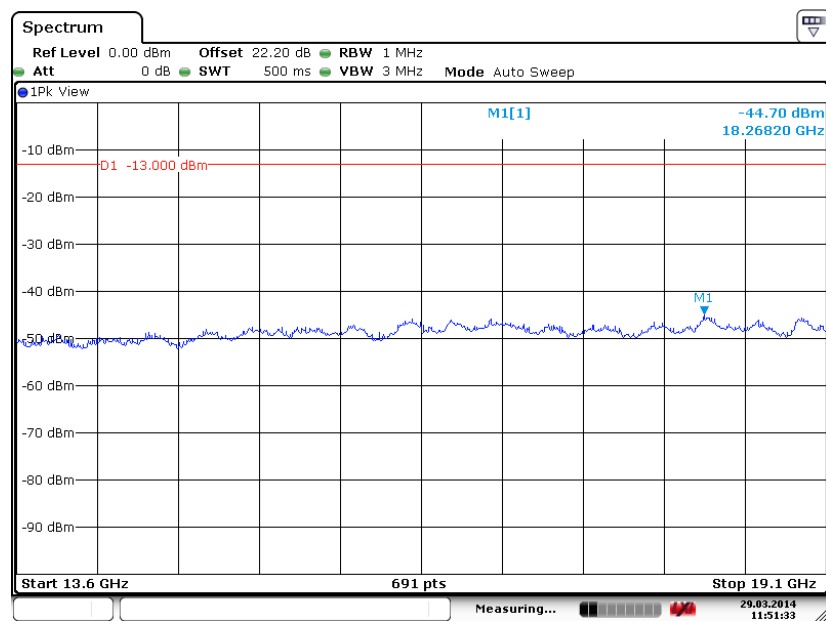
Conducted Spurious Emission Plot between 7GHz ~ 13.6GHz



Date: 29.MAR.2014 11:52:40



Conducted Spurious Emission Plot between 13.6GHz ~ 19.1GHz



Date: 29.MAR.2014 11:51:33

3.7 Field Strength of Spurious Radiation Measurement

3.7.1 Description of Field Strength of Spurious Radiated Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Measuring Instruments

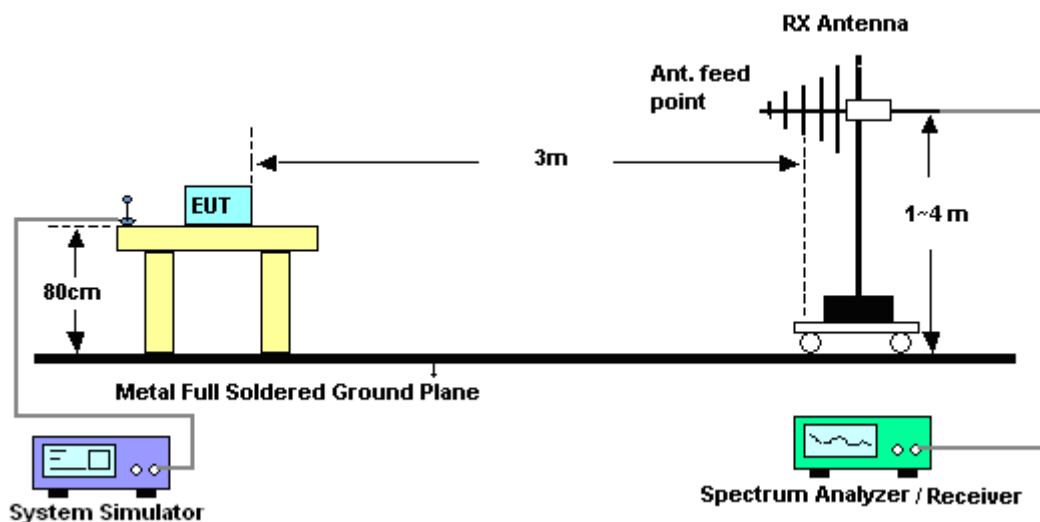
The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

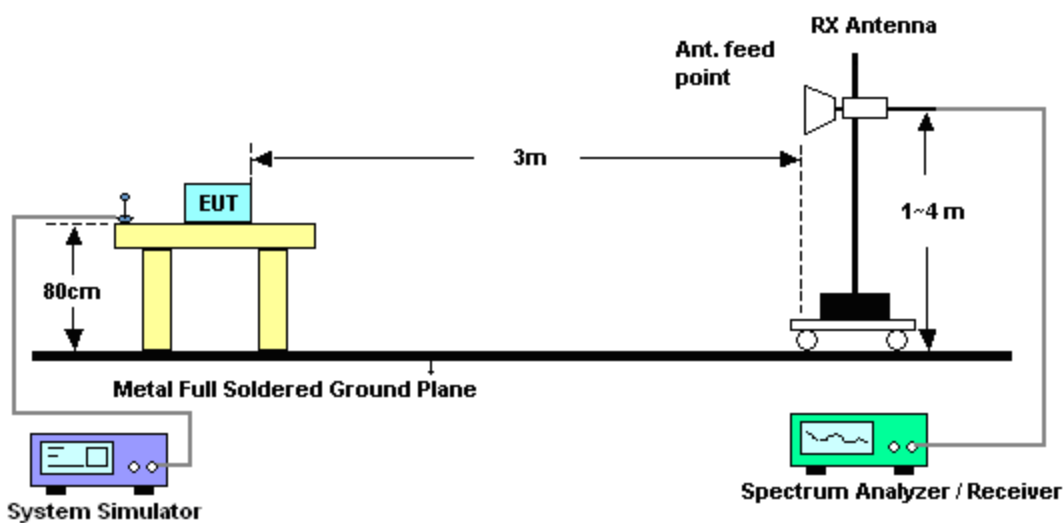
1. The EUT was placed on a rotatable wooden table 0.8 meters above the ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
12. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz

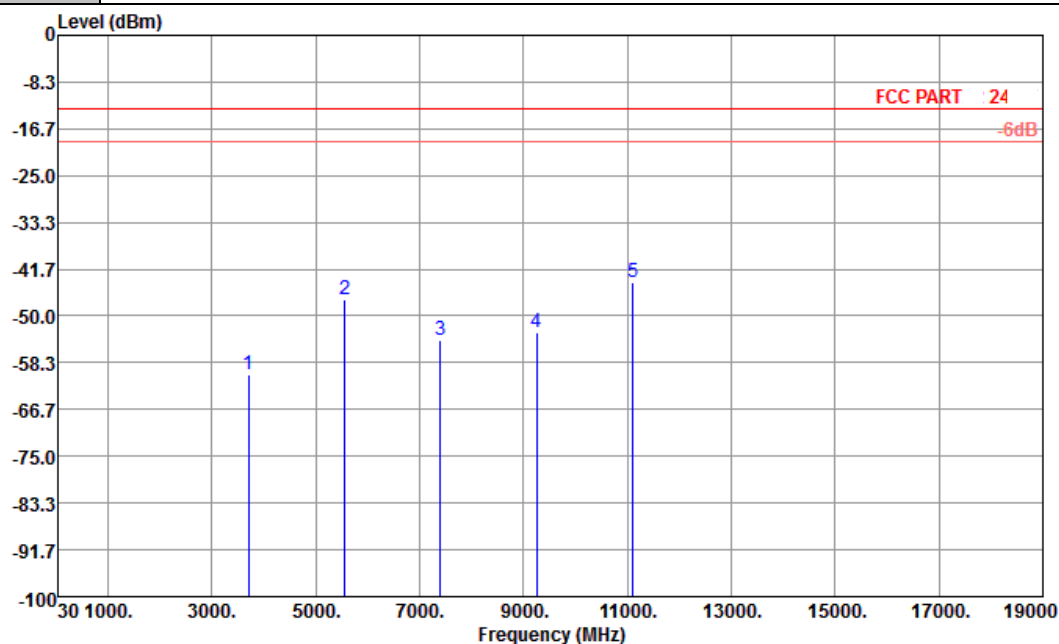


For radiated emissions above 1GHz



3.7.5 Test Result of Field Strength of Spurious Radiated

Band :	GSM1900 for CH512	Temperature :	22~23°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

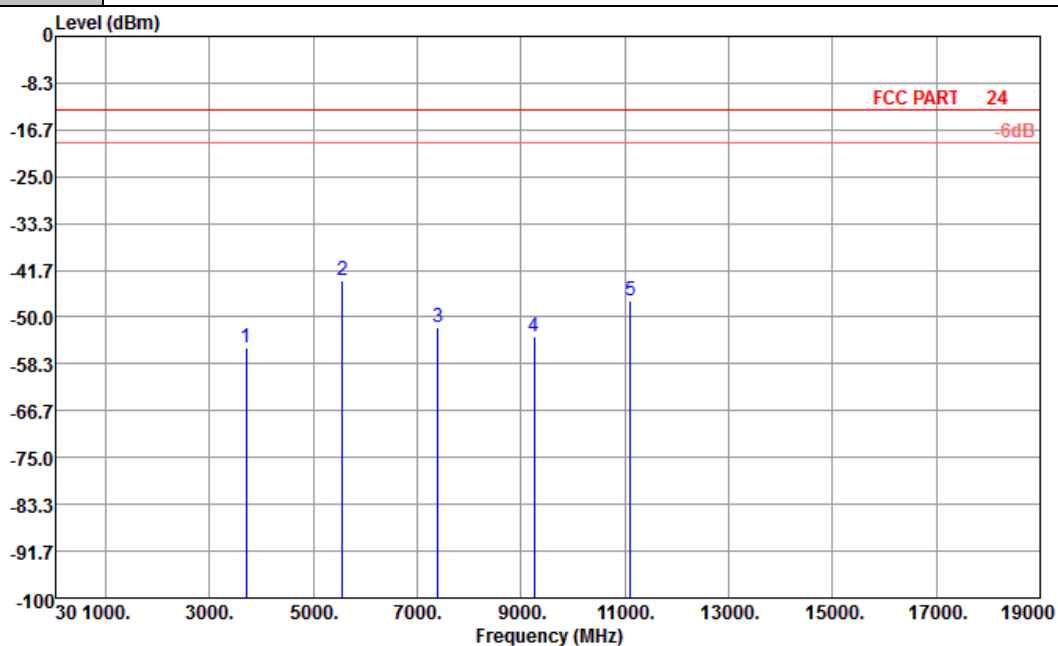


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-60.50	-13	-47.50	-63.85	-66.88	0.78	7.16	H	Pass
5550	-47.05	-13	-34.05	-59.03	-55.59	1.04	9.58	H	Pass
7400	-54.23	-13	-41.23	-65.77	-64.34	1.35	11.46	H	Pass
9252	-52.93	-13	-39.93	-65.36	-63.99	1.75	12.81	H	Pass
11103	-43.95	-13	-30.95	-63.46	-55.04	2	13.09	H	Pass

Band :	GSM1900 for CH512	Temperature :	22~23°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



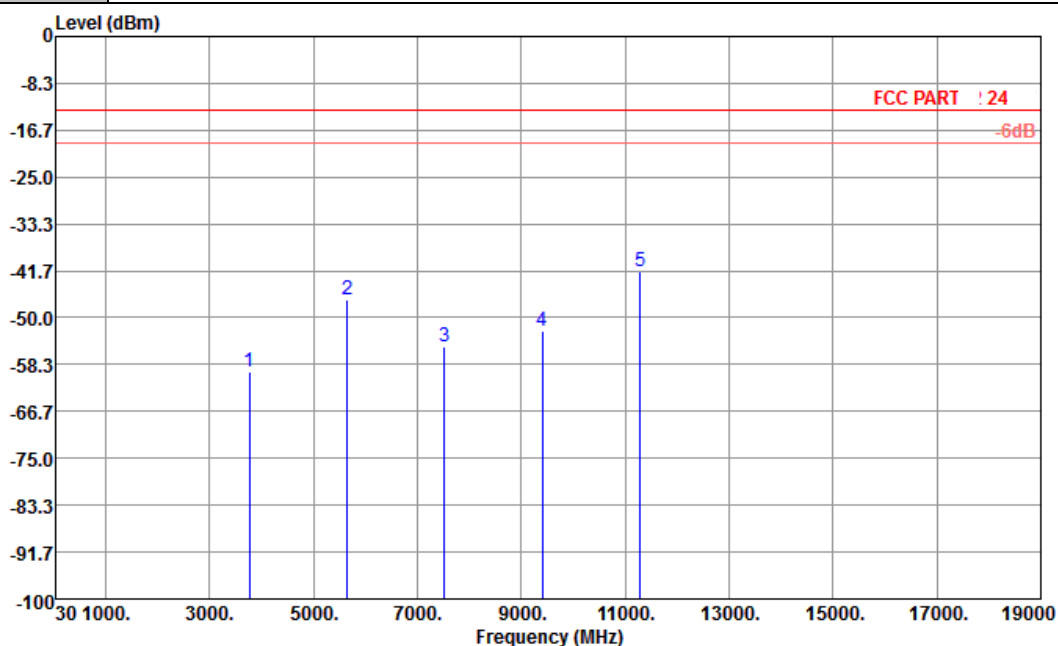
Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-55.42	-13	-42.42	-63.82	-61.80	0.78	7.16	V	Pass
5550	-43.36	-13	-30.36	-58.64	-51.90	1.04	9.58	V	Pass
7400	-51.80	-13	-38.80	-65.89	-61.91	1.35	11.46	V	Pass
9252	-53.42	-13	-40.42	-65.95	-64.48	1.75	12.81	V	Pass
11103	-47.20	-13	-34.20	-63.9	-58.29	2	13.09	V	Pass



Band :	GSM1900 for CH661	Temperature :	22~23°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

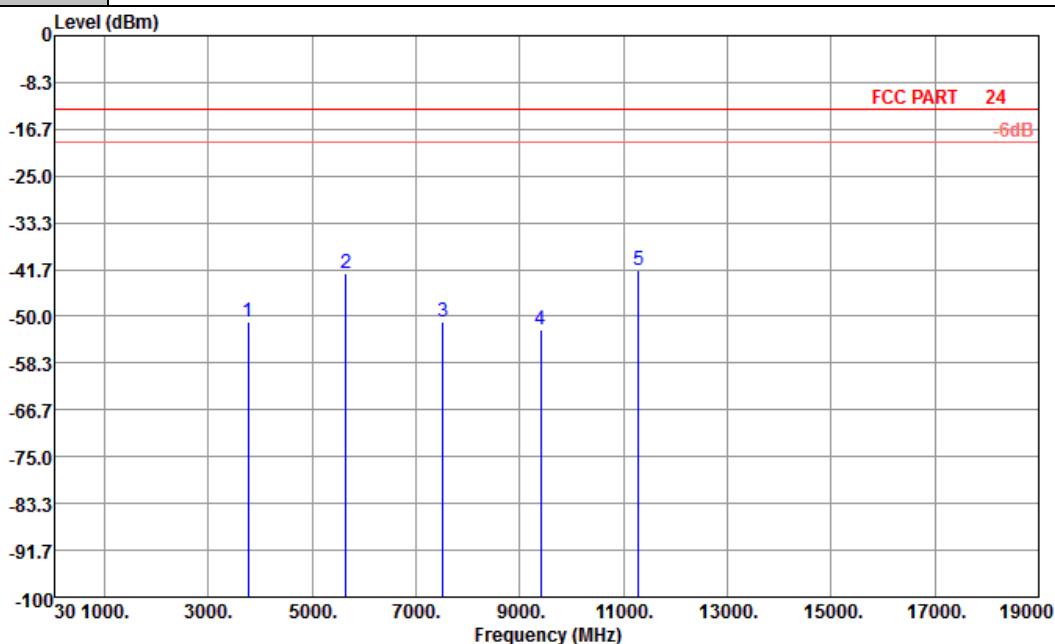


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-59.67	-13	-46.67	-63.02	-66.05	0.78	7.16	H	Pass
5640	-46.89	-13	-33.89	-58.96	-55.43	1.04	9.58	H	Pass
7520	-55.05	-13	-42.05	-66.59	-65.16	1.35	11.46	H	Pass
9399	-52.36	-13	-39.36	-64.79	-63.42	1.75	12.81	H	Pass
11283	-41.67	-13	-28.67	-61.23	-52.76	2	13.09	H	Pass

Band :	GSM1900 for CH661	Temperature :	22~23°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

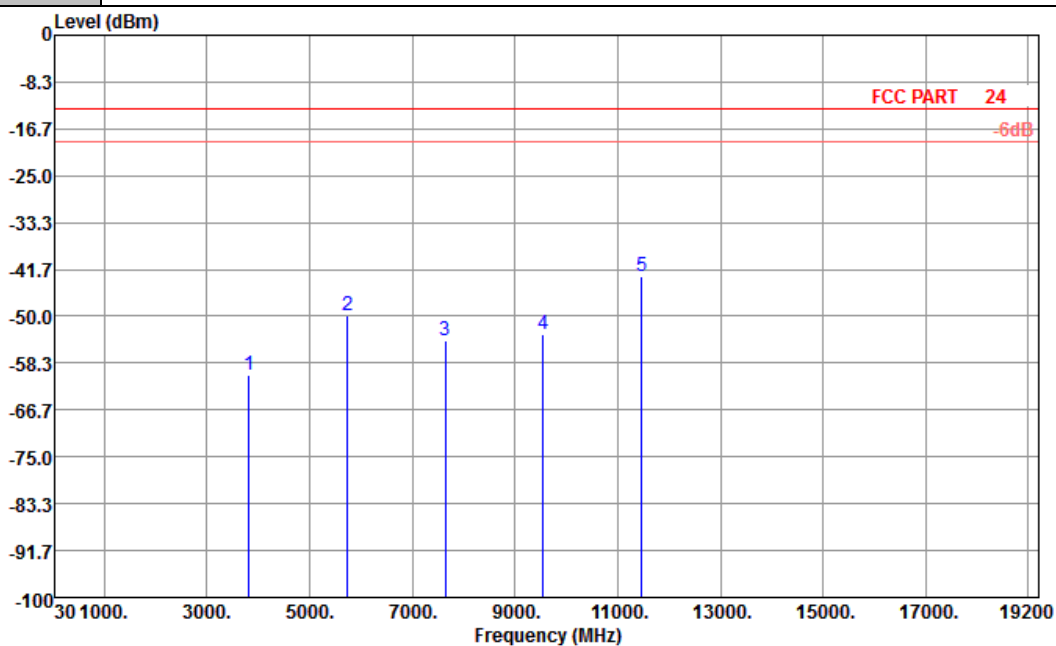


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-50.92	-13	-37.92	-59.69	-57.30	0.78	7.16	V	Pass
5640	-42.47	-13	-29.47	-57.99	-51.01	1.04	9.58	V	Pass
7520	-51.01	-13	-38.01	-65.1	-61.12	1.35	11.46	V	Pass
9399	-52.28	-13	-39.28	-64.81	-63.34	1.75	12.81	V	Pass
11283	-41.84	-13	-28.84	-60.33	-52.93	2	13.09	V	Pass

Band :	GSM1900 for CH810	Temperature :	22~23°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

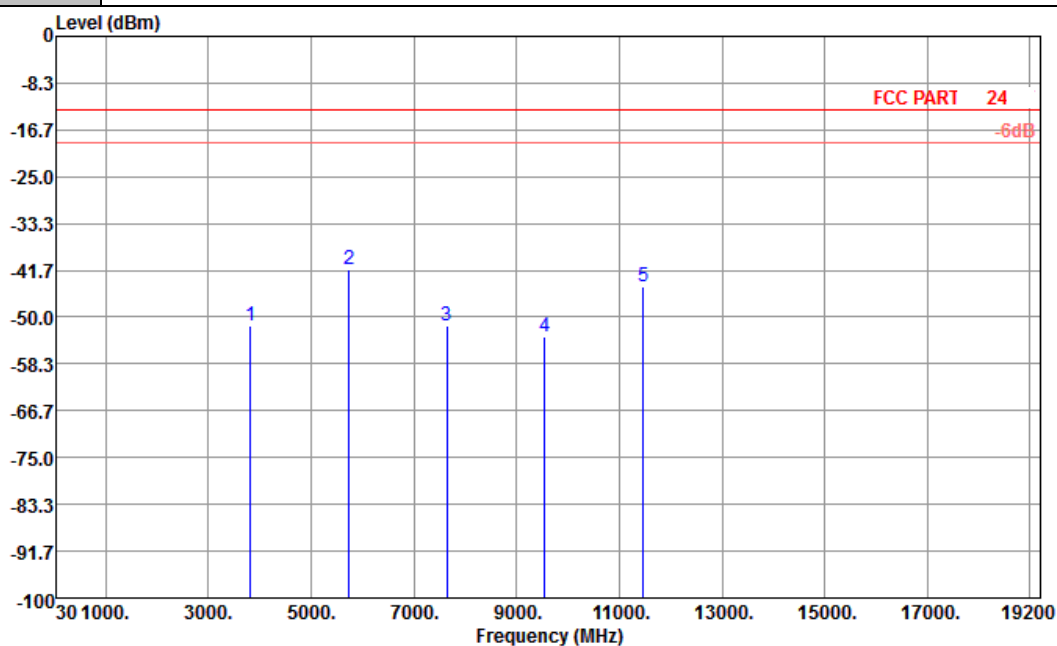


Site : 03CH01-KS

Condition : FCC PART. 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3820	-60.46	-13	-47.46	-63.81	-66.84	0.78	7.16	H	Pass
5730	-49.94	-13	-36.94	-61.26	-58.48	1.04	9.58	H	Pass
7640	-54.35	-13	-41.35	-65.89	-64.46	1.35	11.46	H	Pass
9549	-53.14	-13	-40.14	-65.57	-64.20	1.75	12.81	H	Pass
11460	-42.80	-13	-29.80	-62.31	-53.89	2	13.09	H	Pass

Band :	GSM1900 for CH810	Temperature :	22~23°C
Test Mode :	GSM Link (GMSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

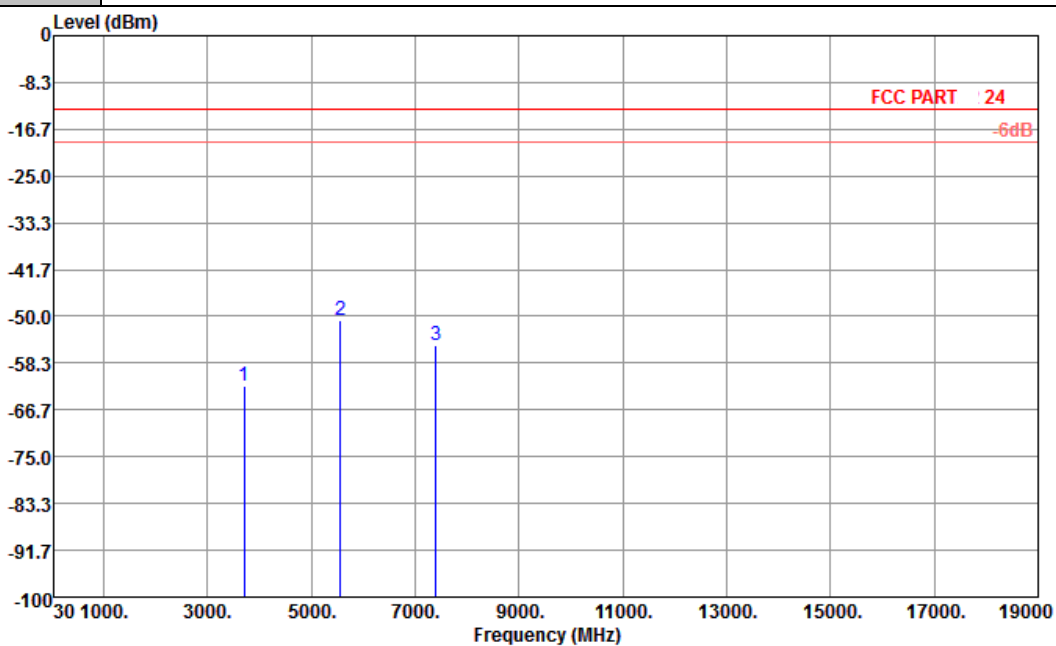


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3820	-51.57	-13	-38.57	-60.12	-57.95	0.78	7.16	V	Pass
5730	-41.40	-13	-28.40	-57.17	-49.94	1.04	9.58	V	Pass
7640	-51.66	-13	-38.66	-65.75	-61.77	1.35	11.46	V	Pass
9549	-53.53	-13	-40.53	-66.06	-64.59	1.75	12.81	V	Pass
11460	-44.45	-13	-31.45	-61.35	-55.54	2	13.09	V	Pass

Band :	GSM1900 for CH512	Temperature :	22~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

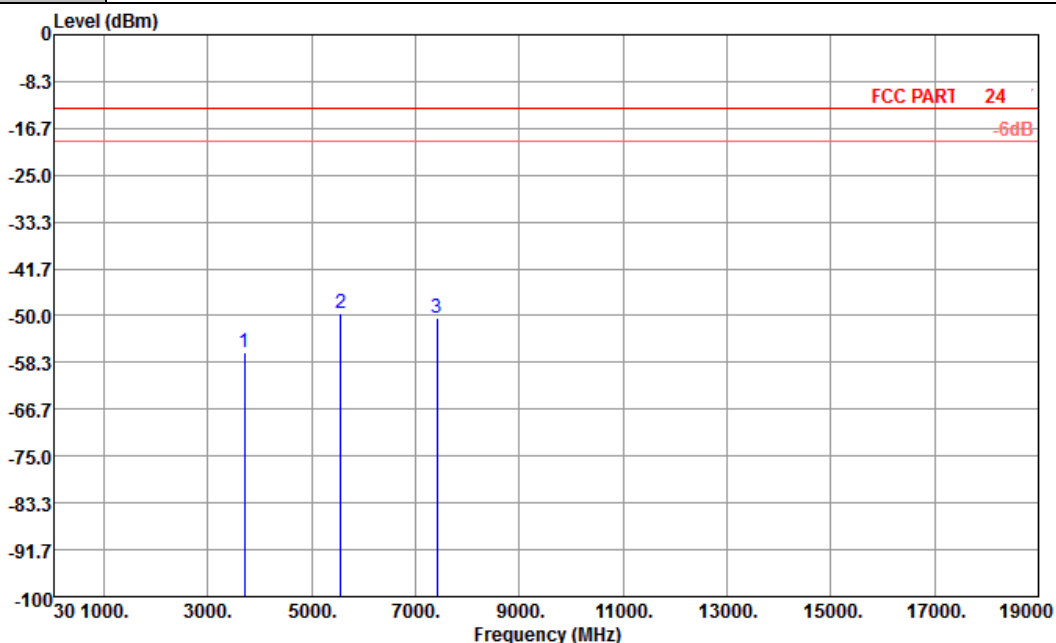


Site : 03CH01-KS

Condition : FCC PART. 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-62.34	-13	-49.34	-65.69	-68.72	0.78	7.16	H	Pass
5550	-50.72	-13	-37.72	-61.78	-59.26	1.04	9.58	H	Pass
7400	-55.04	-13	-42.04	-66.58	-65.15	1.35	11.46	H	Pass

Band :	GSM1900 for CH512	Temperature :	22~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

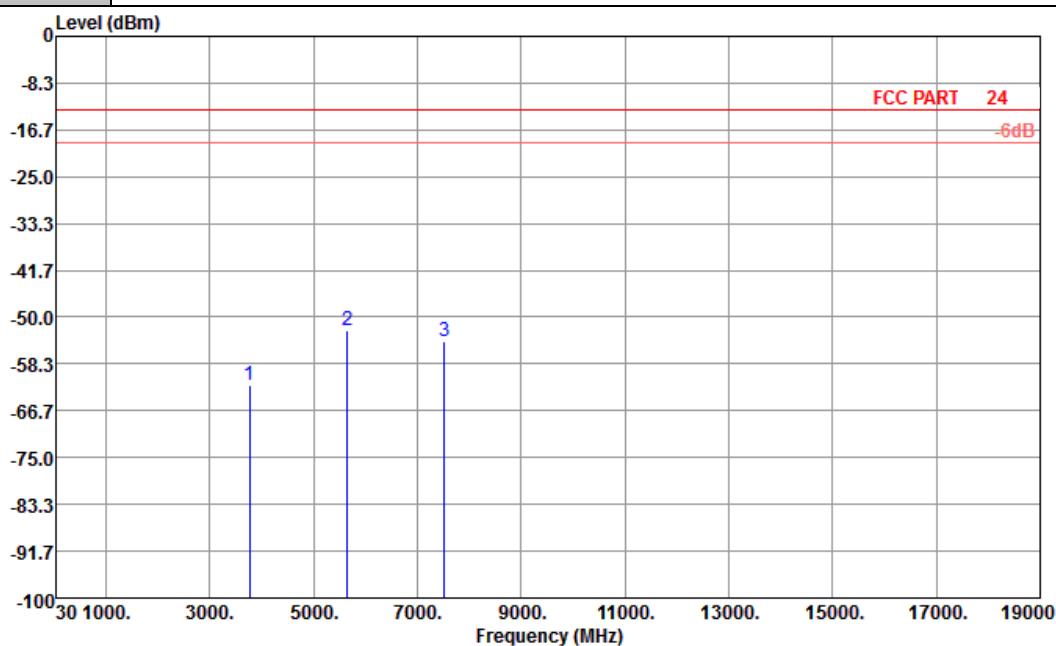


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-56.65	-13	-43.65	-65.05	-63.03	0.78	7.16	V	Pass
5550	-49.56	-13	-36.56	-62.4	-58.10	1.04	9.58	V	Pass
7404	-50.45	-13	-37.45	-64.54	-60.56	1.35	11.46	V	Pass

Band :	GSM1900 for CH661	Temperature :	22~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

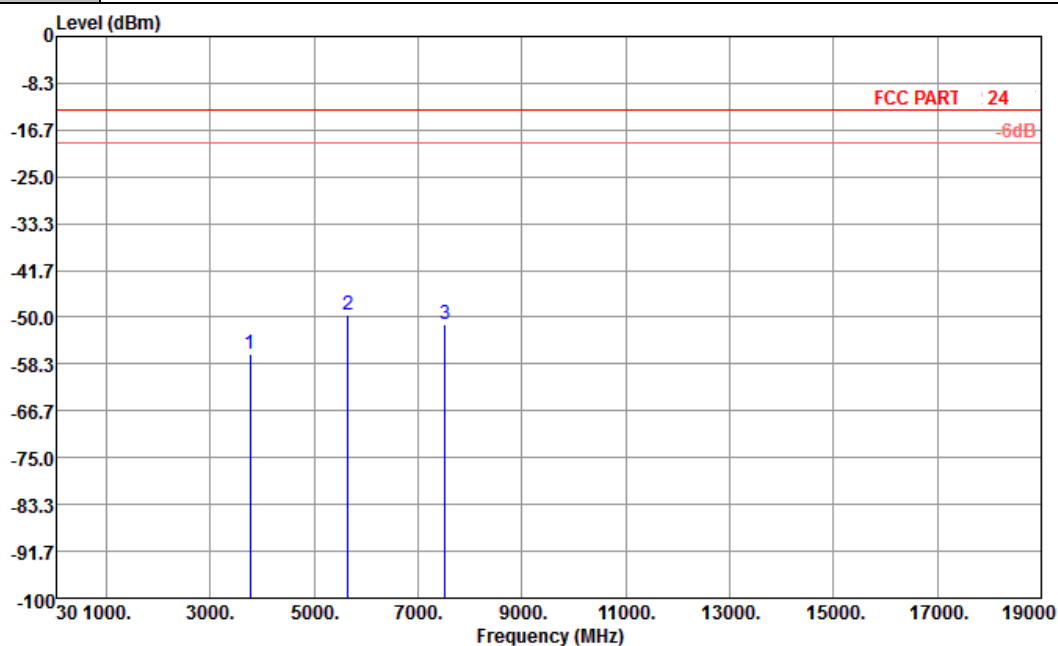


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-62.06	-13	-49.06	-65.41	-68.44	0.78	7.16	H	Pass
5640	-52.46	-13	-39.46	-62.52	-61.00	1.04	9.58	H	Pass
7520	-54.28	-13	-41.28	-65.82	-64.39	1.35	11.46	H	Pass

Band :	GSM1900 for CH661	Temperature :	22~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

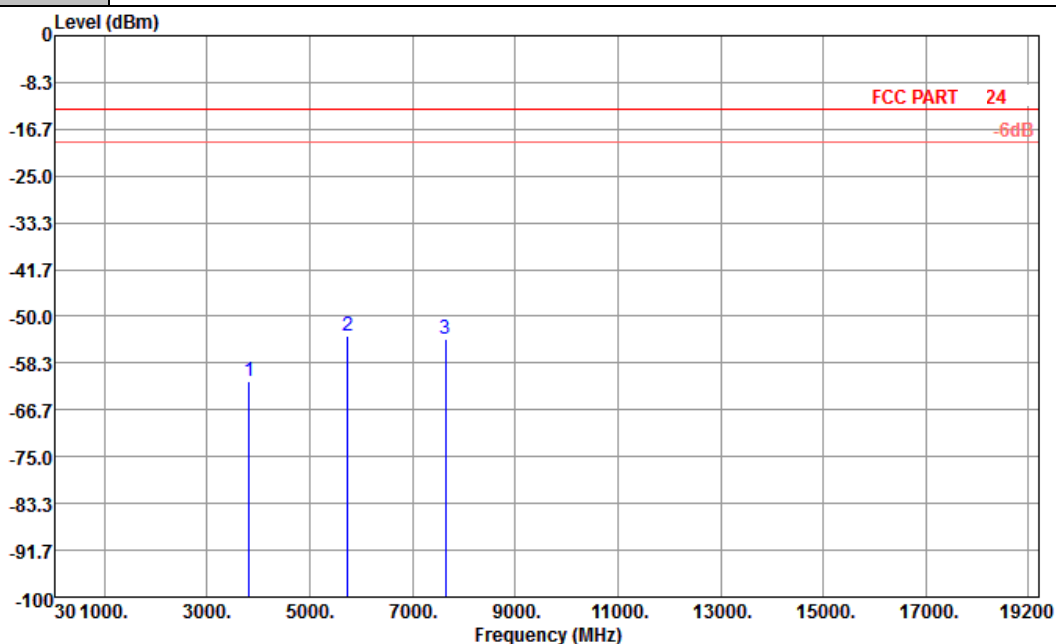


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-56.63	-13	-43.63	-65.03	-63.01	0.78	7.16	V	Pass
5640	-49.51	-13	-36.51	-62.37	-58.05	1.04	9.58	V	Pass
7516	-51.31	-13	-38.31	-65.4	-61.42	1.35	11.46	V	Pass

Band :	GSM1900 for CH810	Temperature :	22~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

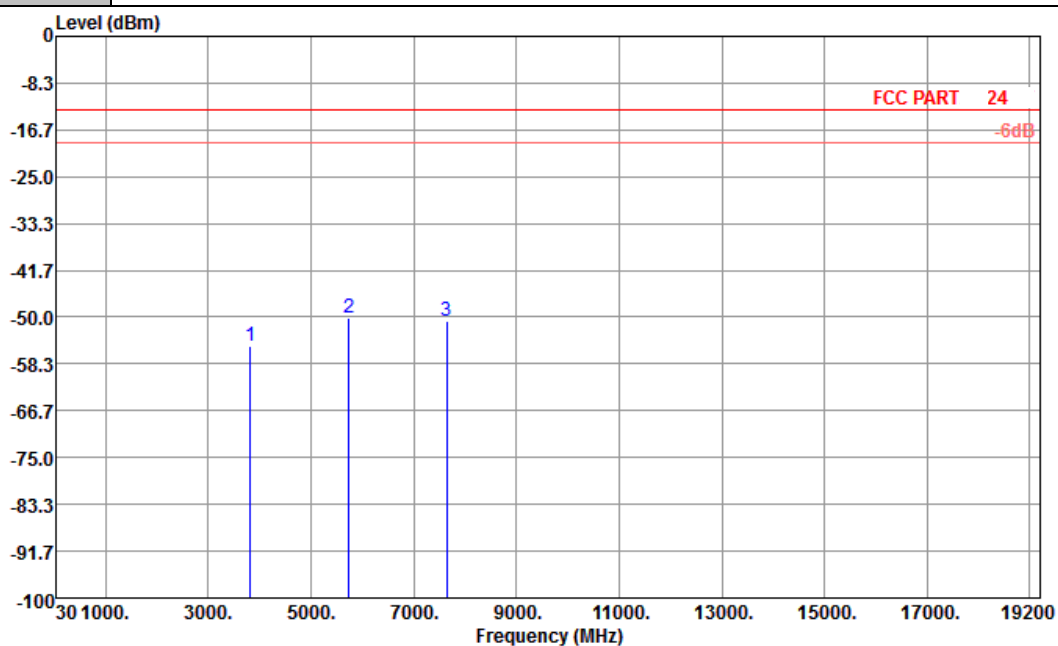


Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 HORIZONTAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3820	-61.69	-13	-48.69	-65.04	-68.07	0.78	7.16	H	Pass
5730	-53.40	-13	-40.40	-63.46	-61.94	1.04	9.58	H	Pass
7640	-54.11	-13	-41.11	-65.65	-64.22	1.35	11.46	H	Pass

Band :	GSM1900 for CH810	Temperature :	22~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	40~41%
Test Engineer :	Jun Liu	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH01-KS

Condition : FCC PART 24 HF_EIRP_FACTOR130726 VERTICAL

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3820	-55.29	-13	-42.29	-63.69	-61.67	0.78	7.16	V	Pass
5730	-50.24	-13	-37.24	-62.89	-58.78	1.04	9.58	V	Pass
7636	-50.81	-13	-37.81	-64.9	-60.92	1.35	11.46	V	Pass

3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

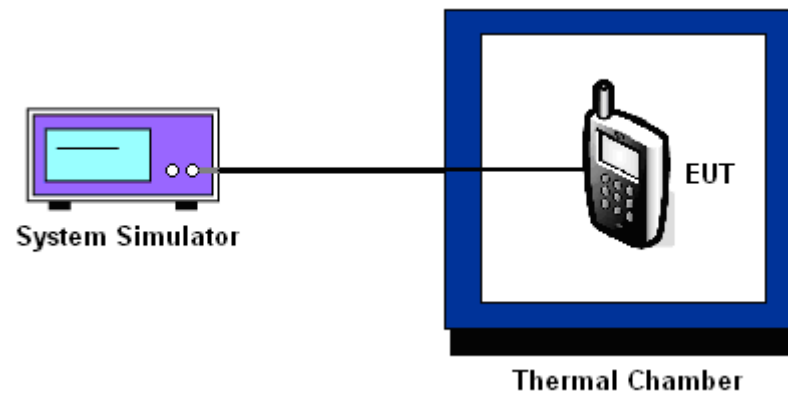
3.8.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C steps up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

3.8.5 Test Setup



3.8.6 Test Result of Temperature Variation

Band :	GSM 1900	Channel :	661
Limit (ppm) :	2.5	Frequency :	1880.0 MHz

Temperature (°C)	GSM		EDGE class 8		Result
	Freq. Dev. (Hz)	Deviation (ppm)	Freq. Dev. (Hz)	Deviation (ppm)	
-30	-17	-0.01	21	+0.01	PASS
-20	-15	-0.01	20	+0.01	
-10	-16	-0.01	17	+0.01	
0	-19	-0.01	19	+0.01	
10	-20	-0.01	18	+0.01	
20	-18	-0.01	17	+0.01	
30	-21	-0.01	21	+0.01	
40	-19	-0.01	20	+0.01	
50	-20	-0.01	22	+0.01	

3.8.7 Test Result of Voltage Variation

Band & Channel	Mode	Voltage (Volt)	Freq. Dev. (Hz)	Deviation (ppm)	Limit (ppm)	Result
GSM 1900 CH661	GSM	3.8	-18	-0.01	2.5	PASS
		BEP	-16	-0.01		
		4.2	-20	-0.01		
	EDGE class 8	3.8	19	+0.01		
		BEP	20	+0.01		
		4.2	21	+0.01		

Note:

1. Normal Voltage = 3.8V.
2. Battery End Point (BEP) = 3.6 V.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Jun. 17, 2013	Mar. 15, 2014~ Apr. 06, 2014	Jun. 16, 2014	Conducted (TH01-SZ)
Thermal Chamber	Hongzhan	LP-150U	HD20120425	-40℃~150℃	Feb. 21, 2014	Mar. 15, 2014~ Apr. 06, 2014	Feb. 20, 2015	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESCI	100534	9kHz~3GHz	Nov. 05, 2013	Apr. 20, 2014	Nov. 04, 2014	Radiation (03CH01-KS)
Spectrum Analyzer	R&S	FSP30	101399	9kHz~30GHz	May 23, 2013	Apr. 20, 2014	May 22, 2014	Radiation (03CH01-KS)
Bilog Antenna	SCHAFFNER	CBL6112D	23182	25MHz~2GHz	Jan. 08, 2014	Apr. 20, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 08, 2014	Apr. 20, 2014	Jan. 07, 2015	Radiation (03CH01-KS)
Active Horn Antenna	com-power	AHA-118	701030	1GHz~18GHz	Nov. 18, 2013	Apr. 20, 2014	Nov. 17, 2014	Radiation (03CH01-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Mar. 10, 2014	Apr. 20, 2014	Mar. 09, 2015	Radiation (03CH01-KS)
Amplifier	com-power	PA-103A	161073	1MHz~1GHz	May 23, 2013	Apr. 20, 2014	May 22, 2014	Radiation (03CH01-KS)
Amplifier	Agilent	8449B	3008A02371	1GHz~26.5GHz	Dec. 10, 2013	Apr. 20, 2014	Dec. 09, 2014	Radiation (03CH01-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Apr. 20, 2014	NCR	Radiation (03CH01-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Apr. 20, 2014	NCR	Radiation (03CH01-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Apr. 20, 2014	NCR	Radiation (03CH01-KS)

5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.54
---	------