

FCC Test Report

Product Name : Module
Trade Name : AirPrime
Model No. : AR7592
FCC ID. : N7NAR7592
IC ID. : 2417C-AR7592

Applicant : Sierra Wireless Inc.

Address : 13811 Wireless Way, Richmond, BC, V6V 3A4 Canada

Date of Receipt : Nov. 09, 2016
Issued Date : Feb. 09, 2017
Report No. : 16B0260R-HPUSP21V01
Report Version : V6.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date: Feb. 09, 2017

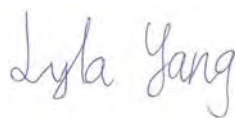
Report No. : 16B0260R-HPUSP21V01



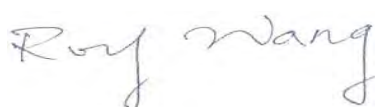
Product Name : Module
Applicant : Sierra Wireless Inc.
Address : 13811 Wireless Way, Richmond, BC, V6V 3A4 Canada
Manufacturer : Sierra Wireless Inc.
Model No. : AR7592
FCC ID. : N7NAR7592
IC ID. : 2417C-AR7592
EUT Voltage : DC 3.7V
Testing Voltage : DC 3.7V
Trade Name : AirPrime
Applicable Standard : FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
ANSI/TIA-603-D-2010
RSS GEN Issue3
RSS 132 Issue 3
RSS 133 Issue6
Test Lab : Hsin Chu Laboratory
Test Result : Complied

The test results relate only to the samples tested.

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Documented By : 
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Approved By : 
(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
16B0260R-HPUSP21V01	V6.0	Initial issue of report.	Feb. 09, 2017

Laboratory Information

We, **DEKRA Testing and Certification Co., Ltd.**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/ accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	: TAF, Accreditation Number: 3024
USA	: FCC, Registration Number: 834100
Canada	: IC, Submission No: 181665 / IC Registration Number: 4075C-4

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site : http://www.dekra.com.tw/index_en.aspx

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TABLE OF CONTENTS

Description	Page
1. General Information.....	7
1.1. EUT Description	7
1.2. Mode of Operation.....	8
1.3. Tested System Details	9
1.4. Configuration of Tested System	10
1.5. EUT Exercise Software	10
2. Technical Test	11
2.1. Summary of Test Result.....	11
2.2. Test Environment	11
3. Peak Output Power	12
3.1. Test Equipment	12
3.2. Test Setup	13
3.3. Limit.....	14
3.4. Test Procedure	14
3.5. Uncertainty	14
3.6. Test Result	15
4. Occupied Bandwidth	33
4.1. Test Equipment	33
4.2. Test Setup	33
4.3. Limit.....	34
4.4. Test Procedure	34
4.5. Uncertainty	34
4.6. Test Result	35
5. Spurious Emission At Antenna Terminals (+/- 1MHz)	59
5.1. Test Equipment	59
5.2. Test Setup	59
5.3. Limit.....	60
5.4. Test Procedure	60
5.5. Uncertainty	60
5.6. Test Result	61
6. Spurious Emission.....	67
6.1. Test Equipment	67
6.2. Test Setup	67
6.3. Limit.....	68
6.4. Test Procedure	68
6.5. Uncertainty	69
6.6. Test Result	70

7.	Frequency Stability Under Temperature & Voltage Variations	178
7.1.	Test Equipment	178
7.2.	Test Setup	178
7.3.	Limit	178
7.4.	Test Procedure	179
7.5.	Uncertainty	179
7.6.	Test Result	180
Attachment 1		192
	Test Setup Photograph	192
Attachment 2		212
	EUT Photograph.....	216

1. General Information

1.1. EUT Description

Product Name	Module
Model No.	AR7592
Trade Name	AirPrime
Tx Frequency Range/ Channel number	GSM 850: 824.2-848.8 MHz GSM 1900: 1850.2-1909.8 MHz WCDMA Band 2: 1852.4-1907.6 MHz WCDMA Band 5: 826.4-846.6 MHz
Rx Frequency Range/ Channel number	GSM 850: 869.2-893.8 MHz GSM 1900: 1930.2-1989.8 MHz WCDMA Band 2: 1932.4-1987.6 MHz WCDMA Band 5: 871.4-891.6 MHz
Type of Modulation	GPRS: GMSK; EGPRS: GMSK / 8PSK WCDMA: QPSK (Uplink); HSDPA: QPSK (Uplink)
HW Version	1.0
SW Version	SWI9X40A_01.02.02.00

Antenna Information	
Antenna Gain	2dBi
Antenna Type	Dipole

Note: This Module included GSM 850, DCS 1900, WCDMA Band 2, WCDMA Band 4 and WCDMA Band 5 transmitting and receiving function.

1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode	
TX	Mode 1: GSM 850_Link Mode Mode 2: GSM 850_Idle Mode Mode 3: DCS 1900_Link Mode Mode 4: DCS 1900_Idle Mode Mode 5: WCDMA Band 5_Link Mode Mode 6: WCDMA Band 5_Idle Mode Mode 7: WCDMA Band 2_Link Mode Mode 8: WCDMA Band 2_Idle Mode Mode 9: GSM_EGPRS 850_Link Mode Mode 10: GSM_EGPRS 850_Idle Mode Mode 11: DCS_EGPRS 1900_Link Mode Mode 12: DCS_EGPRS 1900_Idle Mode
Final Test Mode	
TX	Mode 1: GSM 850_Link Mode Mode 2: GSM 850_Idle Mode Mode 3: DCS 1900_Link Mode Mode 4: DCS 1900_Idle Mode Mode 5: WCDMA Band 5_Link Mode Mode 6: WCDMA Band 5_Idle Mode Mode 7: WCDMA Band 2_Link Mode Mode 8: WCDMA Band 2_Idle Mode Mode 9: GSM_EGPRS 850_Link Mode Mode 10: GSM_EGPRS 850_Idle Mode Mode 11: DCS_EGPRS 1900_Link Mode Mode 12: DCS_EGPRS 1900_Idle Mode

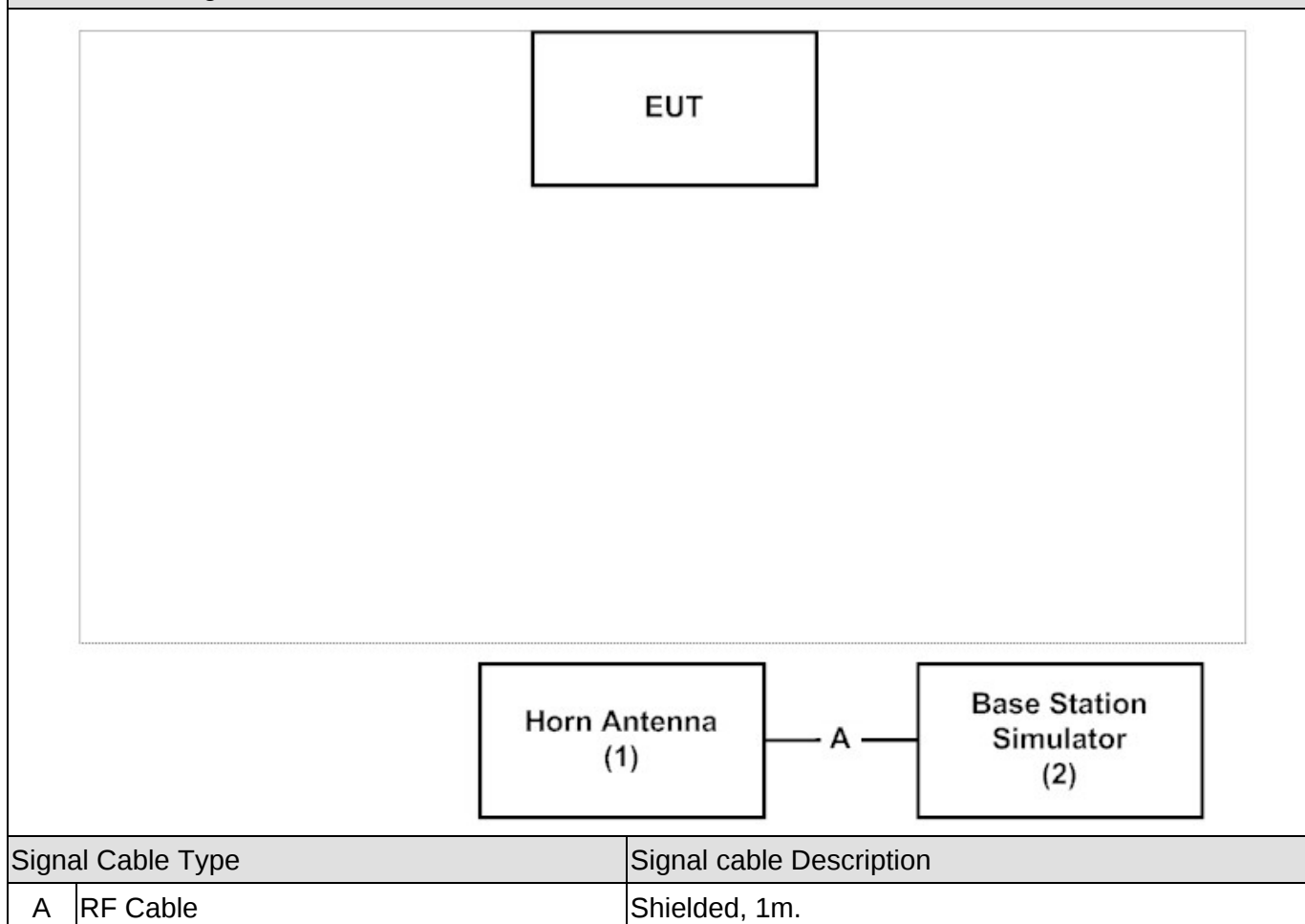
1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Horn Antenna	Schwarzbeck	BBHA9120	D639	DoC	--
2	Base Station Simulator	Japan radio	NJZ-2000	ET00477	DoC	--

1.4. Configuration of Tested System

Connection Diagram



1.5. EUT Exercise Software

1	Setup the EUT as shown in section 1.4.
2	Turn on the EUT power.
3	The EUT will continue transmit through base station simulator
4	Repeat the above procedure.

2. Technical Test

2.1. Summary of Test Result

Performed Item	FCC References	IC References	Result
Peak Output Power	FCC Part 22.913(a)(2) FCC Part 24.232(b) FCC Part 2.1046	RSS -132 §5.4 RSS-133 §6.4	Pass
Occupied Bandwidth	FCC Part 2.1049 FCC Part 24.238(b)	RSS-Gen §4.2	Pass
Spurious Emission At Antenna Terminals (+/- 1MHz)	FCC Part 22.917(a) FCC Part 24.238(a) FCC Part 2.1049	RSS -132 §5.5 RSS -133 §6.5	Pass
Spurious Emission	FCC Part 2.1051 FCC Part 2.1053	RSS -132 §5.5 RSS -133 §6.5	Pass
Frequency Stability Under Temperature & Voltage Variations	FCC Part 22.355 FCC Part 24.235 FCC Part 2.1055	RSS -132 §5.3 RSS -133 §6.3	Pass

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	23
Humidity (%RH)	25-75	52
Barometric pressure (mbar)	860-1060	950-1000

3. Peak Output Power

3.1. Test Equipment

The following test equipments are used during the RF power output tests:

Peak Output Power - Conducted Power Measurement /SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSVA40	101455	2017/11/27
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Directional coupler	Agilent	778D	20402	2017/10/06

Note: 1. All of the equipment that need to be calibrated are with calibration period of 1 year.

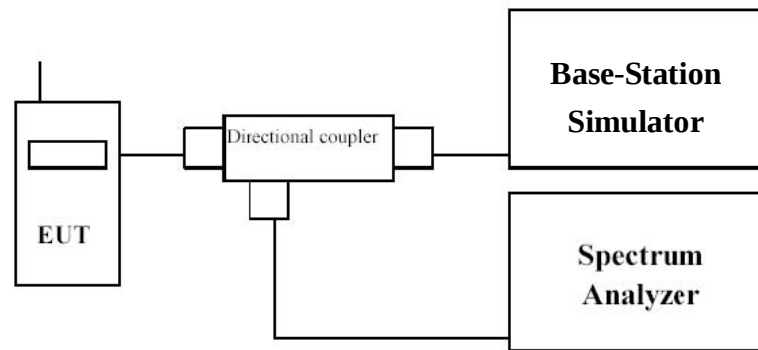
2. EIRP = Substitution Level + Substitution Antenna Gain - Cable Loss °

Peak Output Power - Radiated Power Measurement /CB4-H

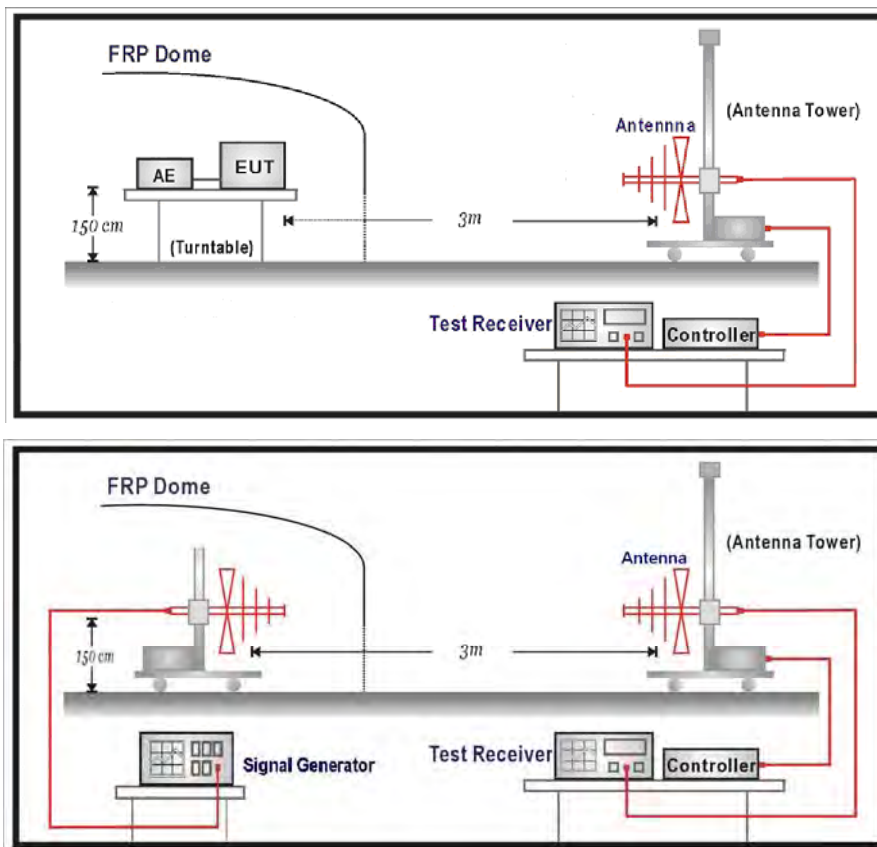
Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2891	2017/08/14
Horn Antenna	Schwarzbeck	BBHA 9120	D312	2017/10/25
Pre-Amplifier	EMCI	EMC0031835	980233	2018/02/02
Pre-Amplifier	Schwarzbeck	DBL-1840N506	013	2017/09/29
Pre-Amplifier	Miteq	JS41-001040000-58-5P	1573954	2017/10/04
Horn Antenna	Schwarzbeck	BBHA 9170	203	2017/08/28
Signal & Spectrum Analyzer	R&S	FSV40	101049	2018/01/05

3.2. Test Setup

Conducted Power Measurement:



Radiated Power Measurement:



3.3. Limit

1) Part 22 H

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

2) Part 24 E

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

3.4. Test Procedure

Conducted Power Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and Base Station Simulator by a Directional Couple.
- c) EUT Communicate with Base Station Simulator then selects a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.

3.5. Uncertainty

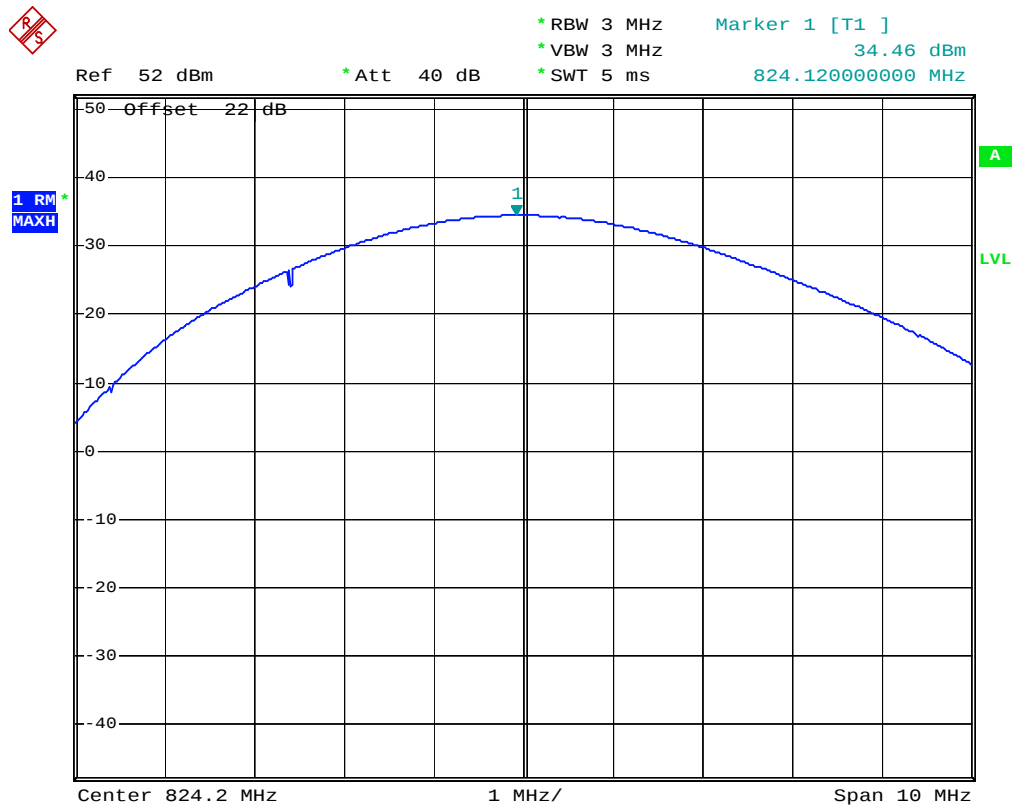
The measurement uncertainty is defined as for Conducted Power Measurement ± 1.2 dB, for Radiated Power Measurement ± 3.2 dB

3.6. Test Result

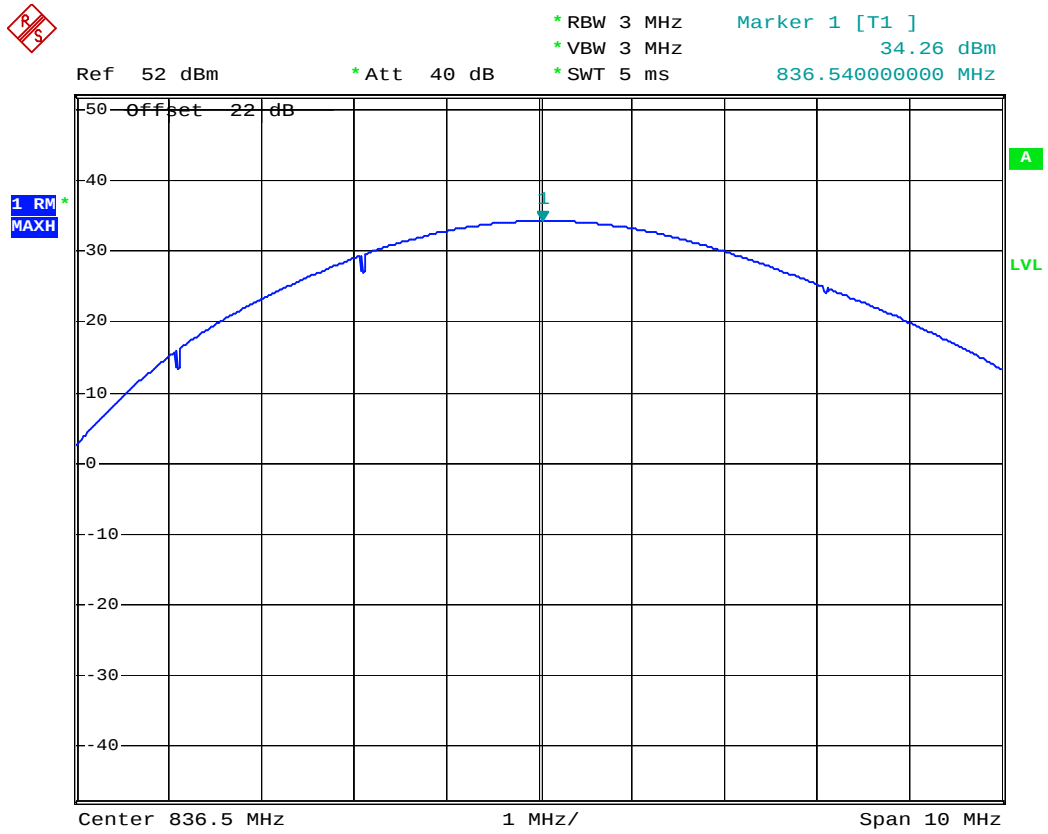
Product	Module		
Test Item	Peak Output Power		
Test Mode	Mode 1: GSM 850_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

Frequency (MHz)	Peak Power		Average Power	Limit (dBm)
	Reading Level (dBm)	Measure Level (dBm)	Measure Level (dBm)	
824.2	34.46	36.46	34.26	38
836.6	34.26	36.26	34.06	38
848.8	33.92	35.92	33.72	38

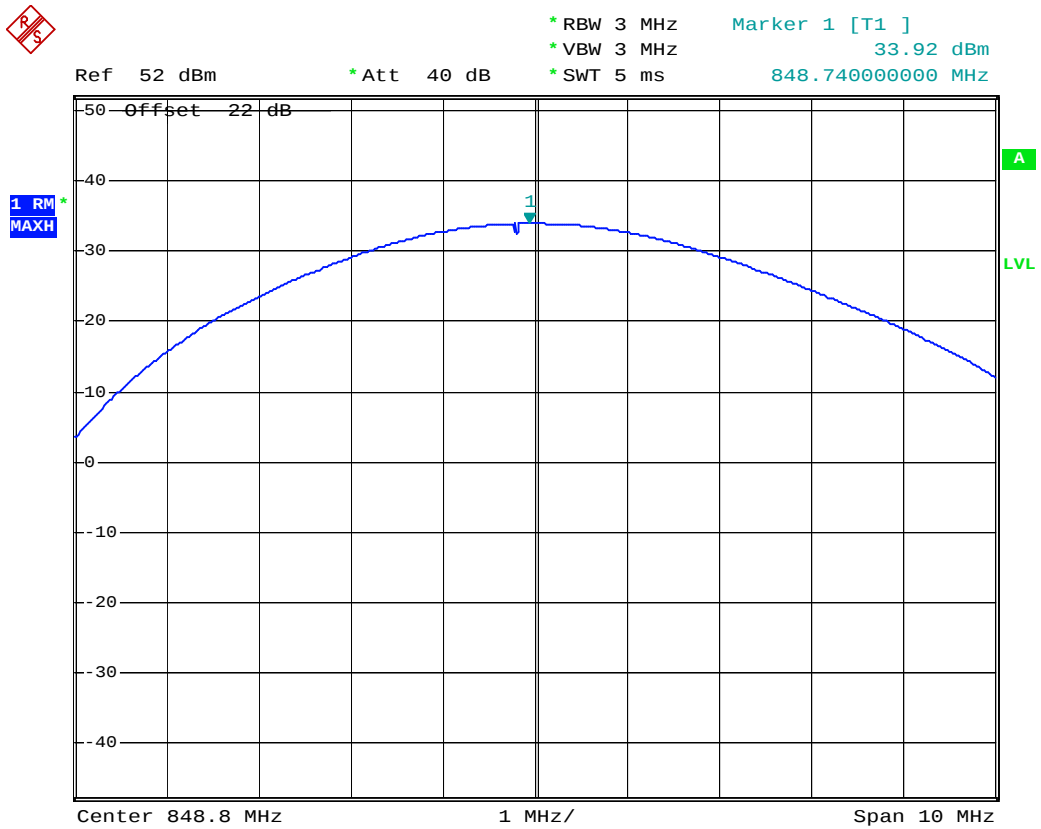
824.2 MHz



836.6 MHz



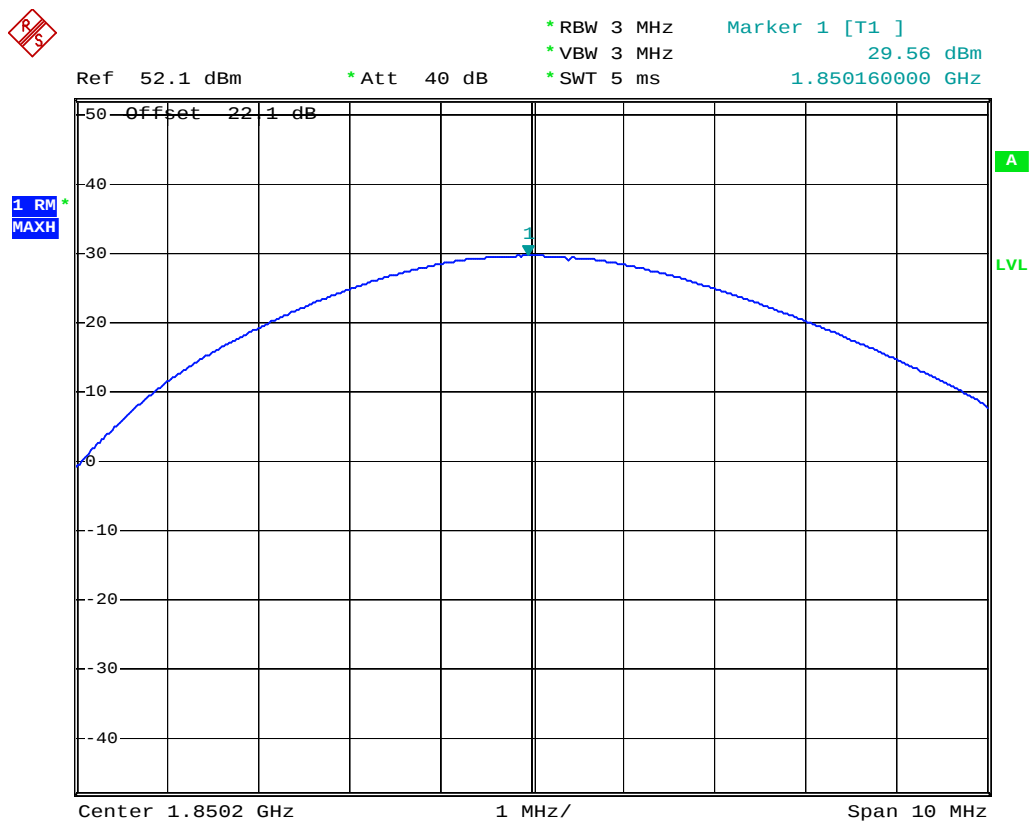
848.8 MHz



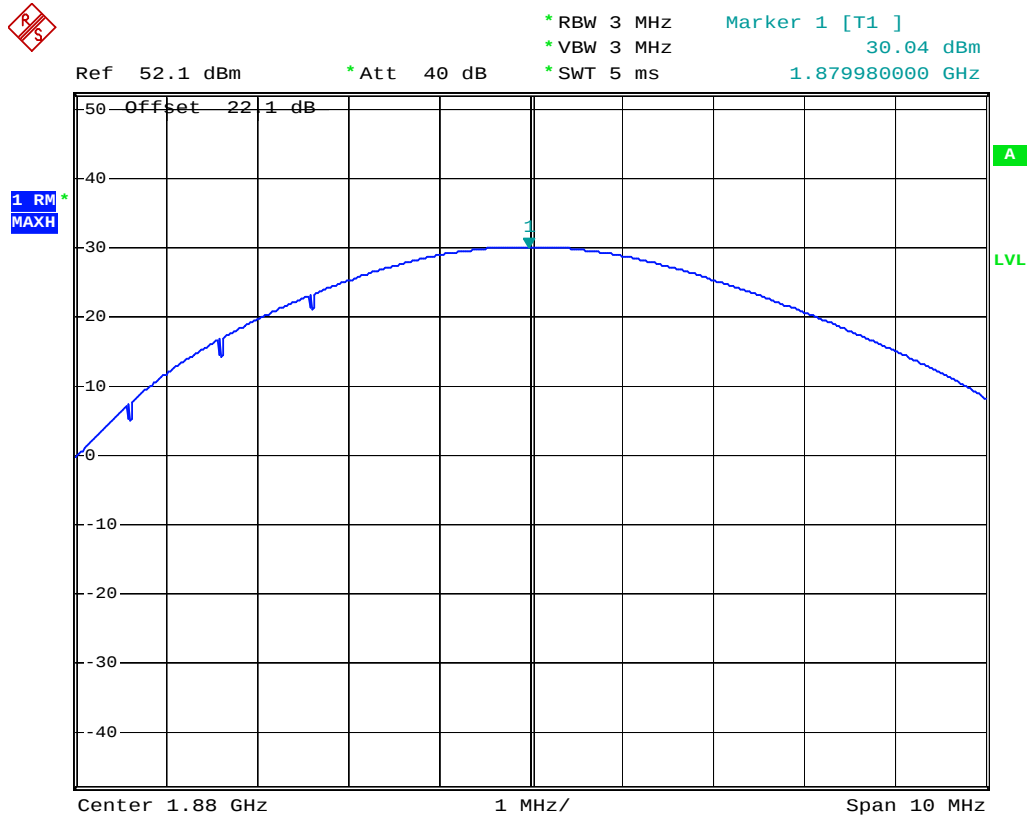
Product	Module		
Test Item	Peak Output Power		
Test Mode	Mode 3: DCS 1900_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

Frequency (MHz)	Peak Power		Average Power	Limit (dBm)
	Reading Level (dBm)	Measure Level (dBm)	Measure Level (dBm)	
1850.2	29.56	31.56	29.36	33
1880.0	30.04	32.04	29.84	33
1909.8	29.89	31.89	29.69	33

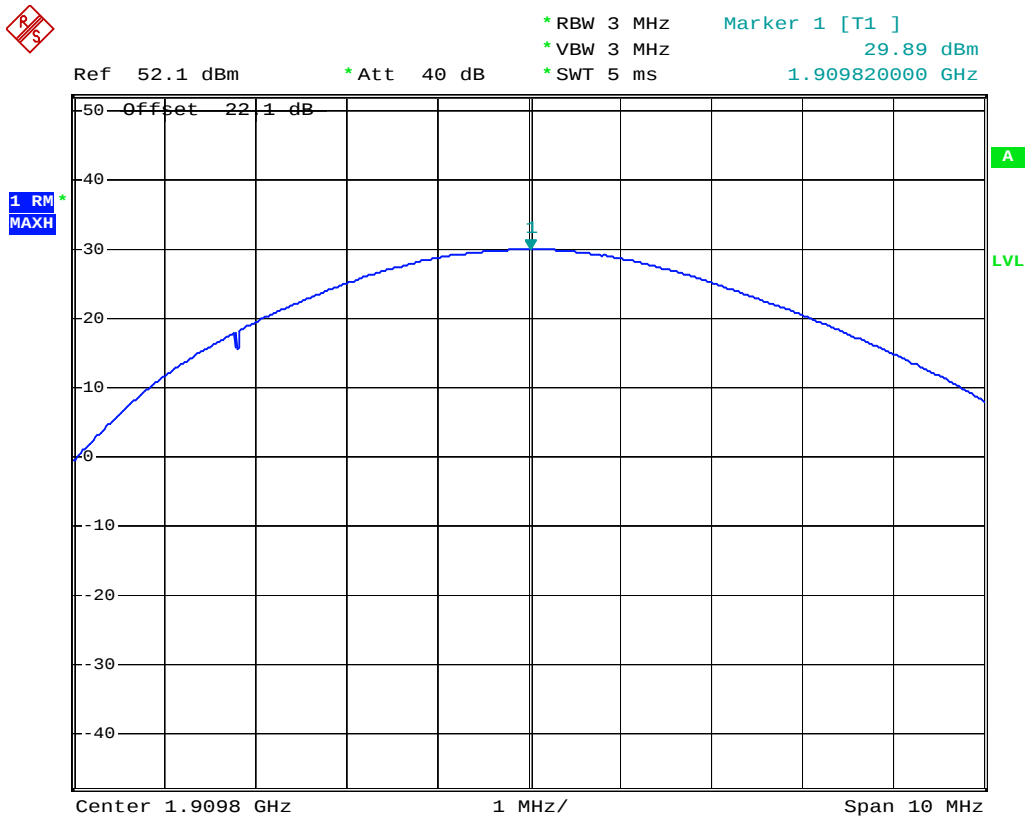
1850.2 MHz



1880.0 MHz



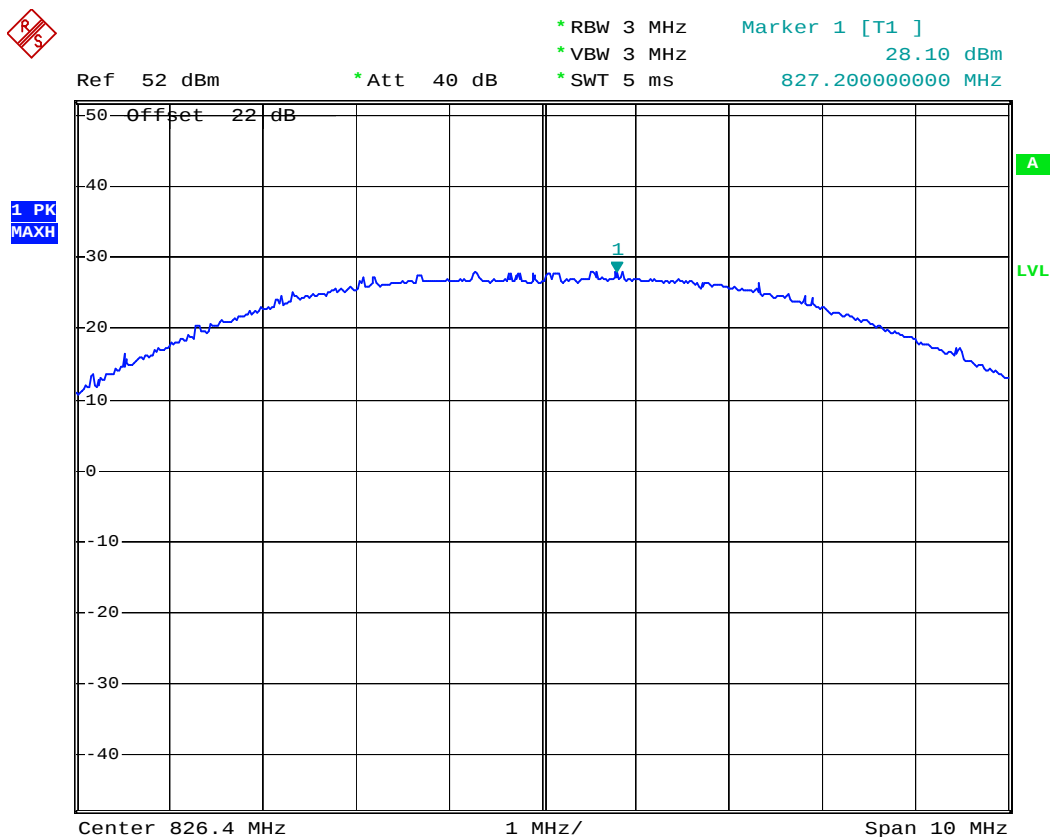
1909.8 MHz



Product	Module		
Test Item	Peak Output Power		
Test Mode	Mode 5: WCDMA Band 5_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

Frequency (MHz)	Peak Power		Average Power	Limit (dBm)
	Reading Level (dBm)	Measure Level (dBm)	Measure Level (dBm)	
826.4	28.10	30.10	27.98	38
836.6	27.20	29.20	27.09	38
846.6	28.19	30.19	28.09	38

826.4 MHz

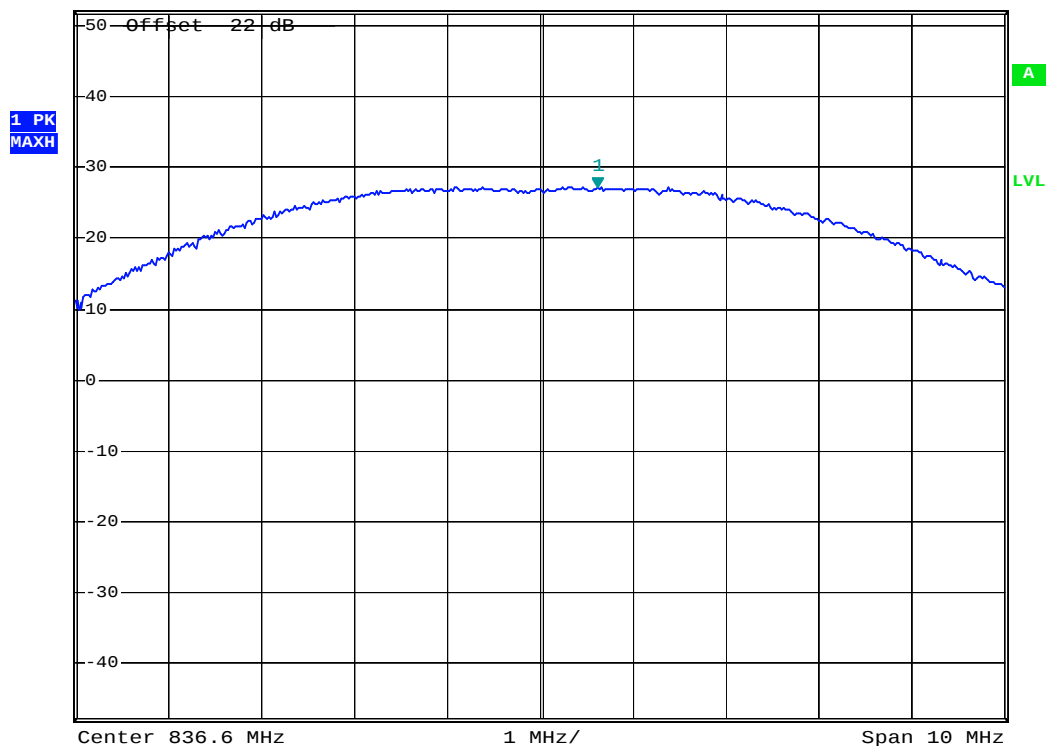


836.6 MHz

* RBW 3 MHz Marker 1 [T1]
* VBW 3 MHz 27.20 dBm
* SWT 5 ms 837.220000000 MHz

Ref 52 dBm

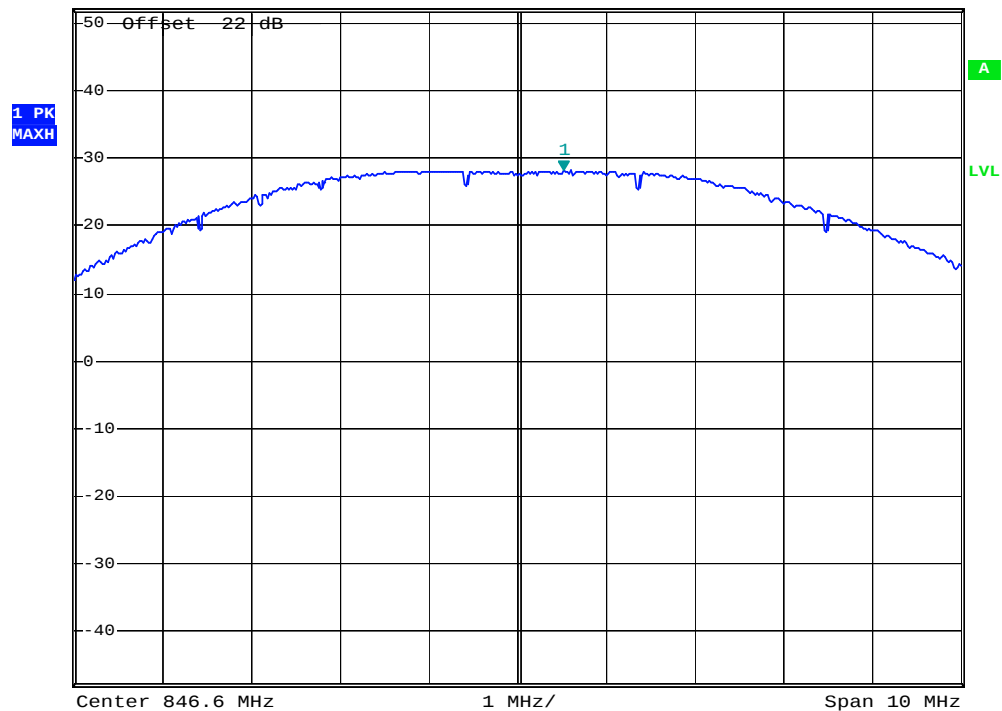
* Att 40 dB

**846.6 MHz**

* RBW 3 MHz Marker 1 [T1]
* VBW 3 MHz 28.19 dBm
* SWT 5 ms 847.120000000 MHz

Ref 52 dBm

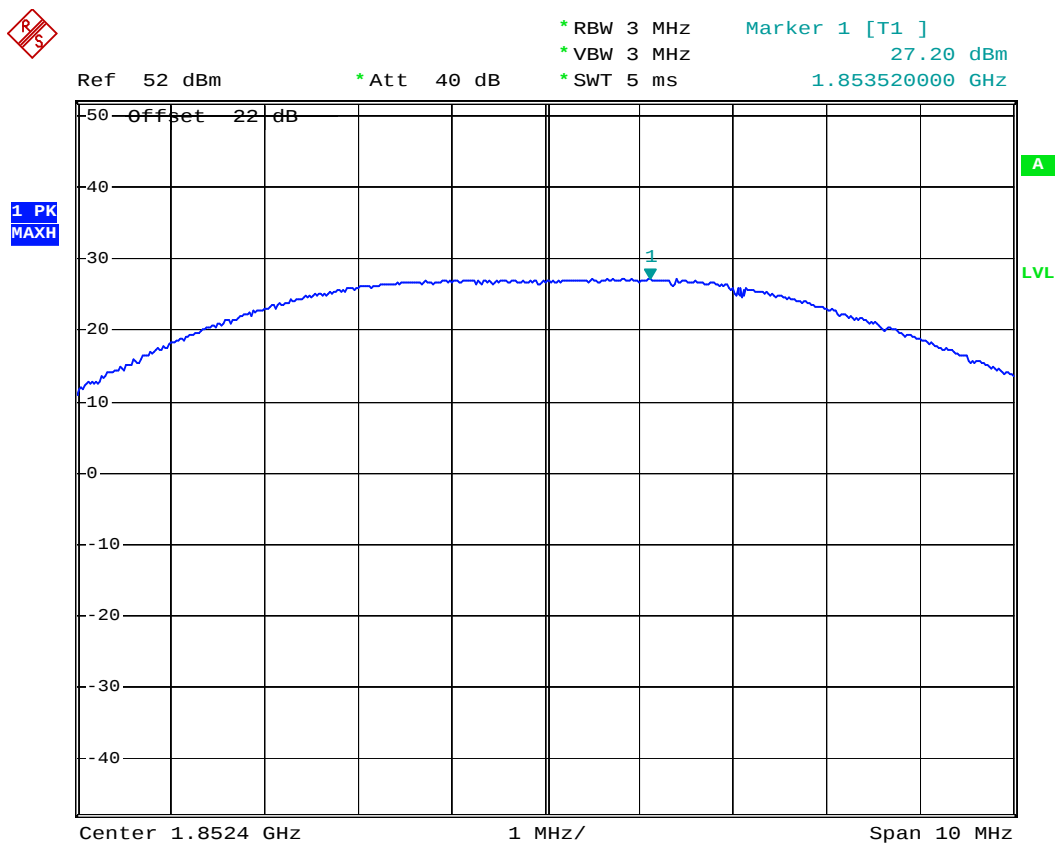
* Att 40 dB



Product	Module		
Test Item	Peak Output Power		
Test Mode	Mode 7: WCDMA Band 2_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

Frequency (MHz)	Peak Power		Average Power	Limit (dBm)
	Reading Level (dBm)	Measure Level (dBm)	Measure Level (dBm)	
1852.4	27.20	29.20	27.11	33
1880.0	25.84	27.84	25.81	33
1907.6	26.13	28.13	26.03	33

1852.4 MHz

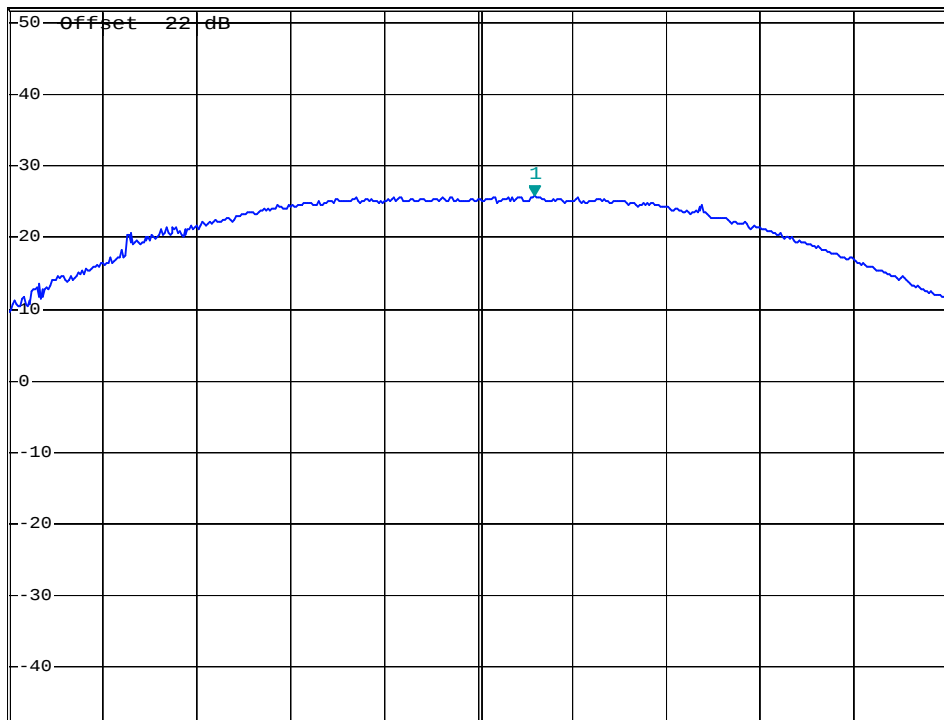


1880.0 MHz

*RBW 3 MHz Marker 1 [T1]
*VBW 3 MHz 25.84 dBm
*SWT 5 ms 1.880600000 GHz

Ref 52 dBm

*Att 40 dB

1 PK
MAXH

Center 1.88 GHz

1 MHz/

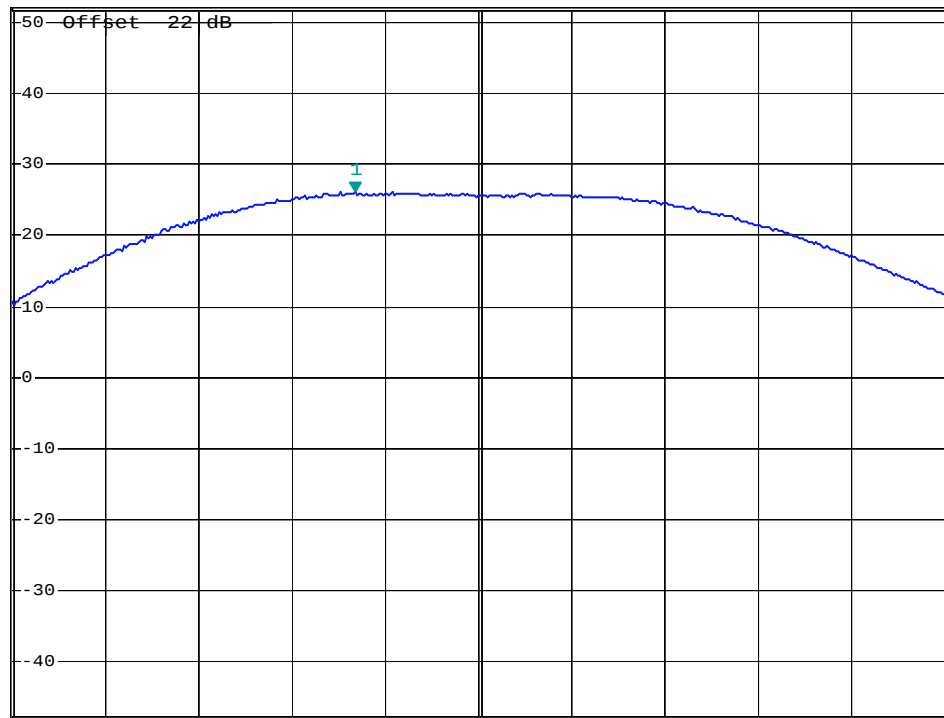
Span 10 MHz

1907.6 MHz

*RBW 3 MHz Marker 1 [T1]
*VBW 3 MHz 26.13 dBm
*SWT 5 ms 1.906280000 GHz

Ref 52 dBm

*Att 40 dB

1 PK
MAXH

Center 1.9076 GHz

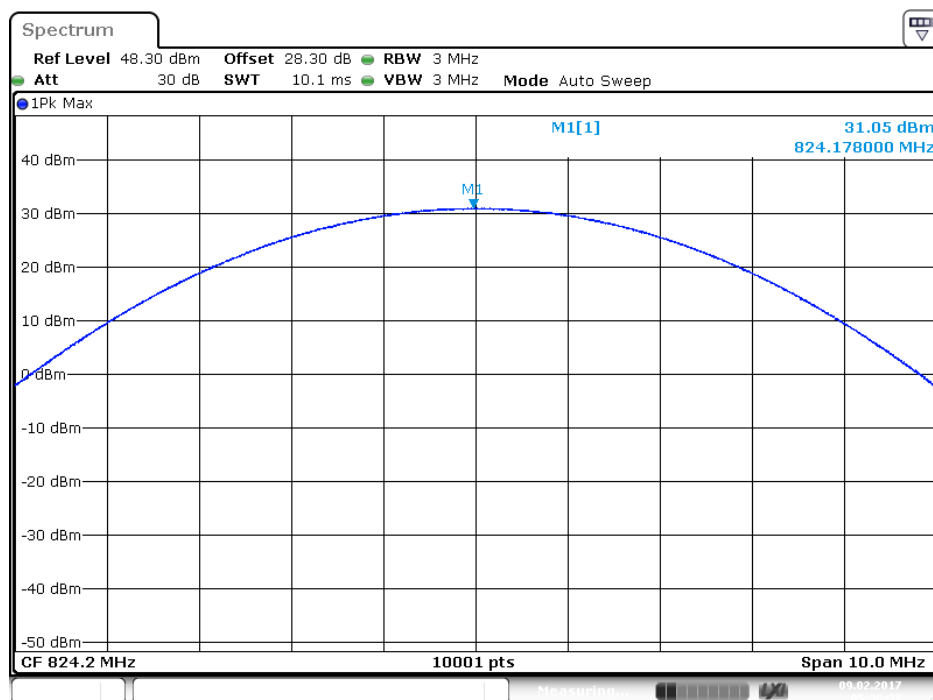
1 MHz/

Span 10 MHz

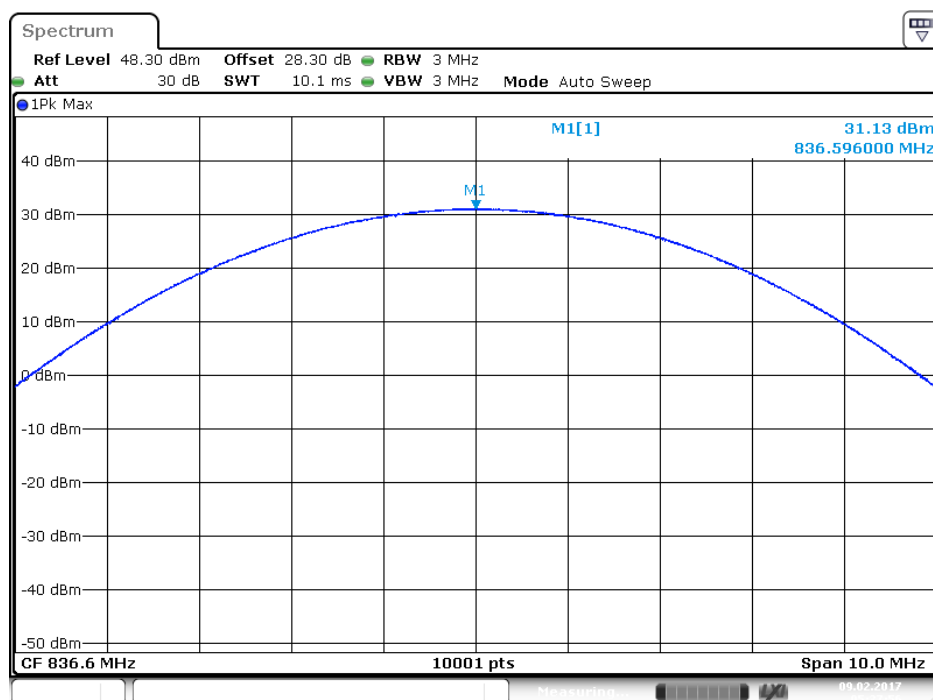
Product	Module		
Test Item	Peak Output Power		
Test Mode	Mode 9: GSM_EGPRS 850_Link Mode		
Date of Test	2017/02/09	Test Site	SR10-H

Frequency (MHz)	Peak Power		Average Power	Limit (dBm)
	Reading Level (dBm)	Measure Level (dBm)	Measure Level (dBm)	
824.2	31.05	33.05	26.62	38
836.6	31.13	33.13	26.72	38
848.8	30.93	32.93	26.69	38

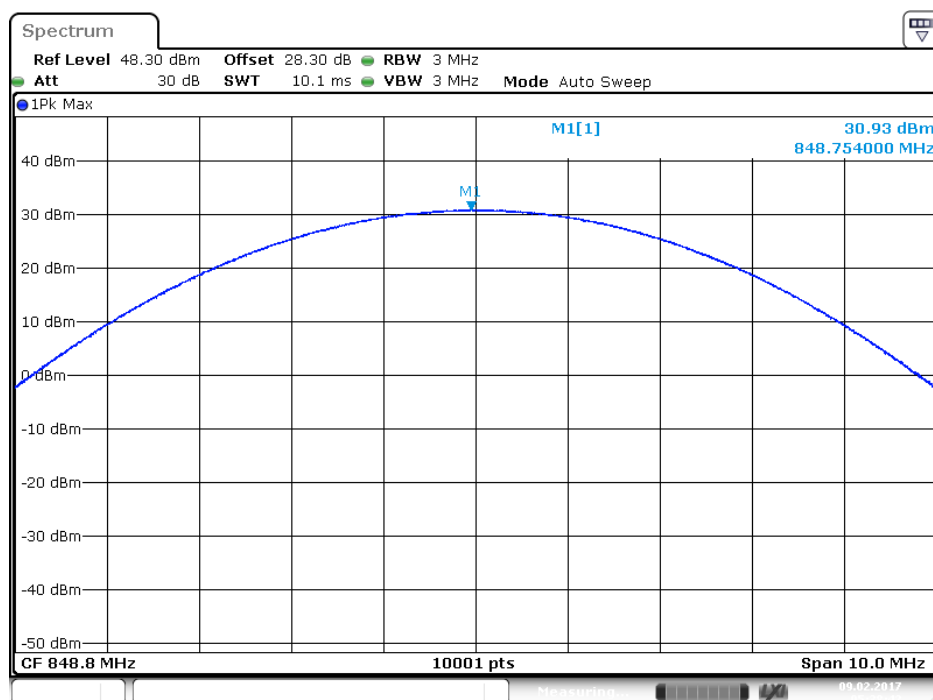
824.2 MHz



Date: 9 FEB 2017 05:36:27

836.6 MHz

Date: 9 FEB 2017 05:37:56

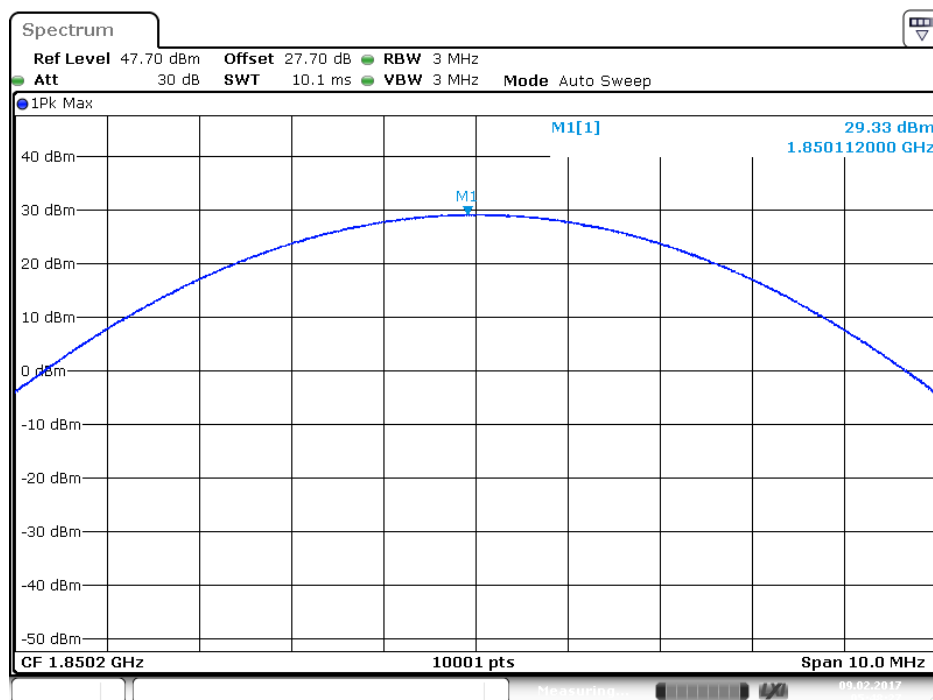
848.8 MHz

Date: 9 FEB 2017 05:38:42

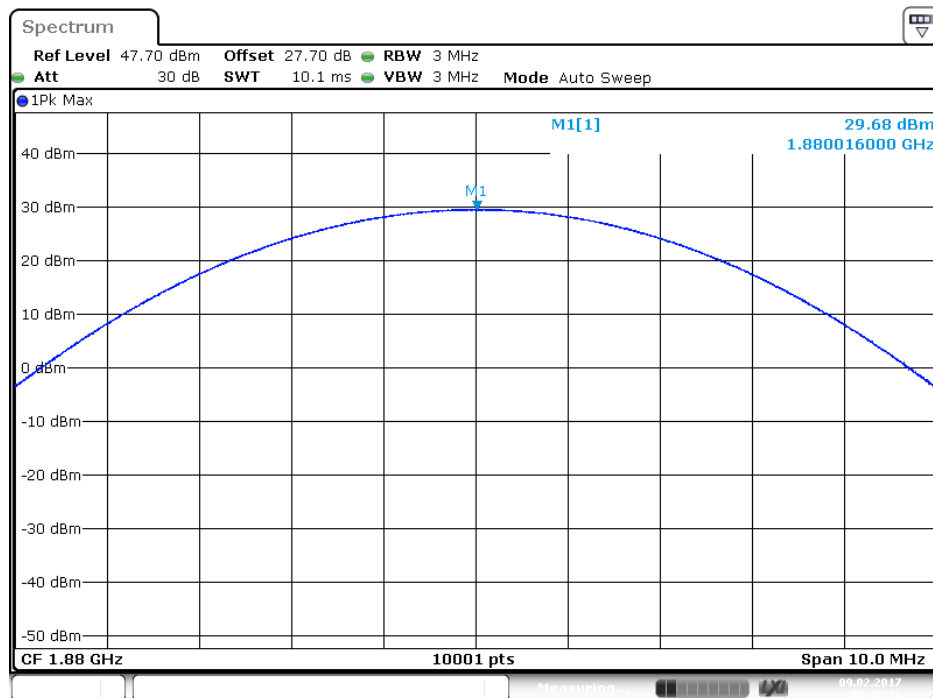
Product	Module		
Test Item	Peak Output Power		
Test Mode	Mode 11: DCS_EGPRS 1900_Link Mode		
Date of Test	2017/02/09	Test Site	SR10-H

Frequency (MHz)	Peak Power		Average Power	Limit (dBm)
	Reading Level (dBm)	Measure Level (dBm)	Measure Level (dBm)	
1850.2	29.33	31.33	24.69	33
1880.0	29.68	31.68	25.59	33
1909.8	29.07	31.07	25.33	33

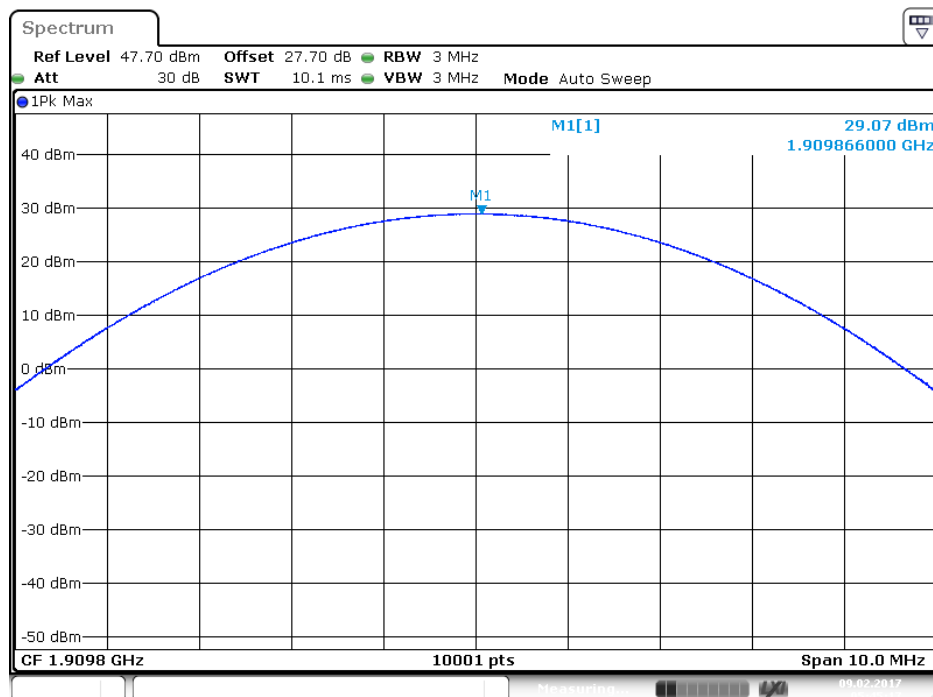
1850.2 MHz



Date: 9 FEB 2017 05:48:27

1880.0 MHz

Date: 9.FEB.2017 05:47:26

1909.8 MHz

Date: 9.FEB.2017 05:45:16

Product	Module		
Test Item	Peak Output Power_ Radiated		
Test Mode	Mode 1: GSM 850_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
824.2	32.04	38
836.6	33.70	38
848.8	33.47	38

Product	Module		
Test Item	Peak Output Power_Radiated		
Test Mode	Mode 3: DCS 1900_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1850.2	29.95	33
1880.0	29.18	33
1909.8	29.41	33

Product	Module		
Test Item	Peak Output Power_Radiated		
Test Mode	Mode 5: WCDMA Band 5_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
826.4	25.96	38
836.6	25.27	38
846.6	25.84	38

Product	Module		
Test Item	Peak Output Power_Radiated		
Test Mode	Mode 7: WCDMA Band 2_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1852.4	24.87	33
1880.0	24.03	33
1907.6	23.55	33

Product	Module		
Test Item	Peak Output Power_Radiated		
Test Mode	Mode 9: GSM_EGPRS 850_Link Mode		
Date of Test	2017/02/09	Test Site	SR10-H

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
824.2	30.829	38
836.6	30.288	38
848.8	29.621	38

Product	Module		
Test Item	Peak Output Power_Radiated		
Test Mode	Mode 11: DCS_EGPRS 1900_Link Mode		
Date of Test	2017/02/09	Test Site	SR10-H

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1850.2	28.853	33
1880.0	28.154	33
1909.8	29.086	33

4. Occupied Bandwidth

4.1. Test Equipment

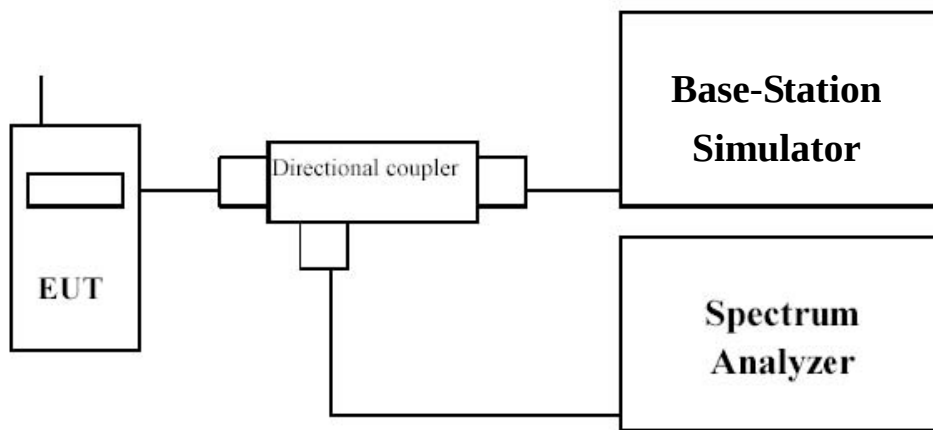
The following test equipments are used during the RF power output tests:

Occupied Bandwidth/SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSVA40	101455	2017/11/27
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Directional coupler	Agilent	778D	20402	2017/10/06

Note: All equipment upon which need to be calibrated are with calibration period of 1 year.

4.2. Test Setup



4.3. Limit

N/A

4.4. Test Procedure

Using a resolution bandwidth of 3 kHz and a video bandwidth of 10 kHz, the -26dBc points were established and the emission bandwidth determined. The plots below show the resultant display from the Spectrum Analyzer.

4.5. Uncertainty

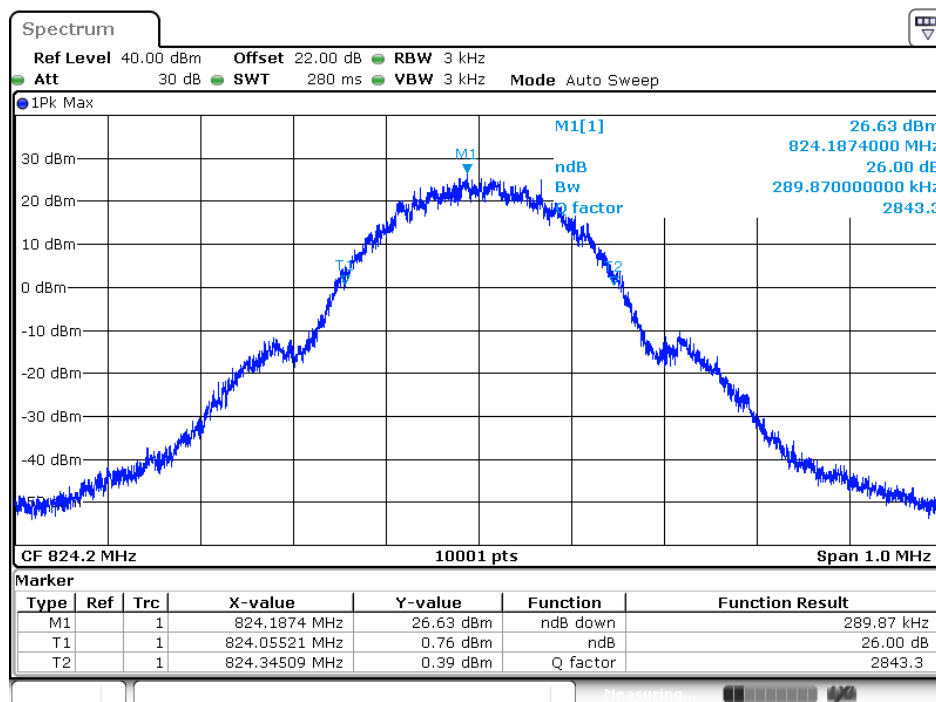
The measurement uncertainty is defined as ± 10 Hz

4.6. Test Result

Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: GSM 850_Link Mode		
Date of Test	2016/12/08	Test Site	SR10-H

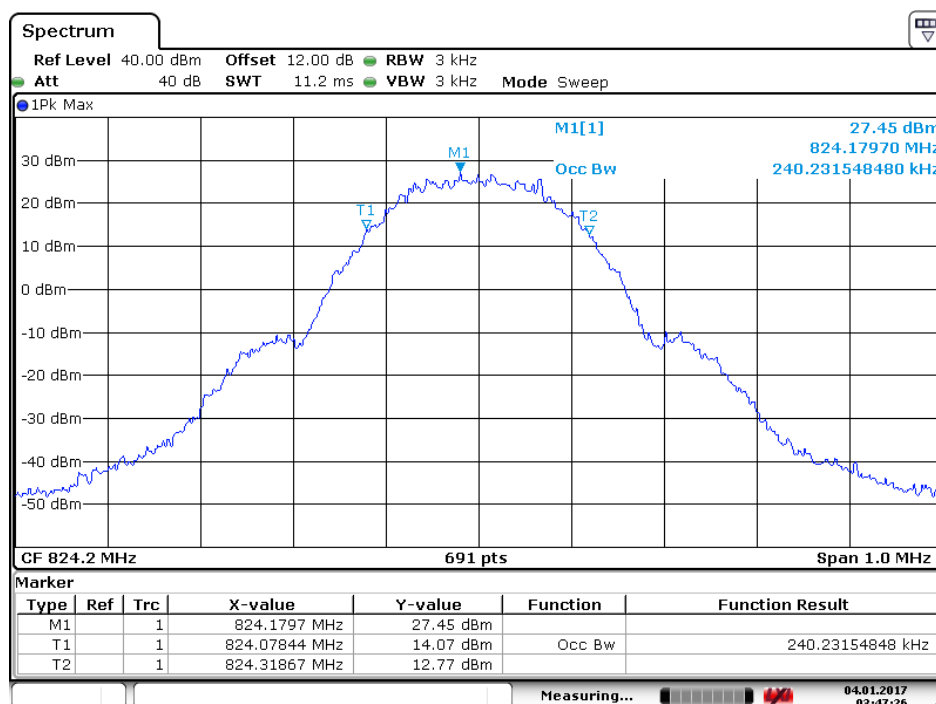
Frequency (MHz)	-26dB BW Measure Level (KHz)	99% BW Measure Level (KHz)	Limit (MHz)
824.2	289.87	240.23	N/A
836.6	294.87	244.57	N/A
848.8	294.97	244.57	N/A

824.2 MHz (-26dB BW)



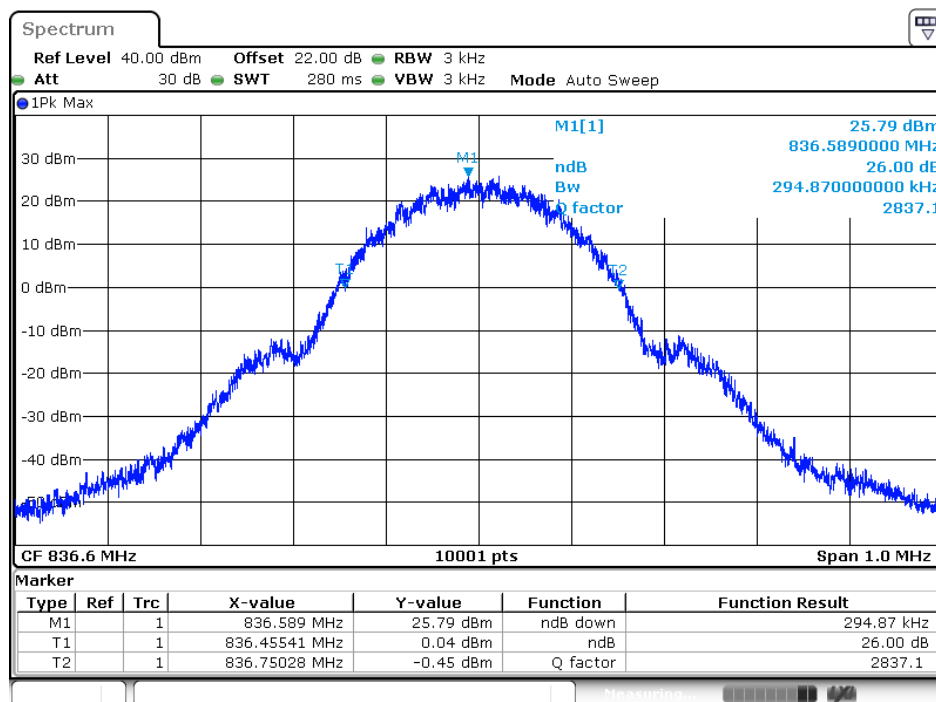
Date: 8 DEC 2016 10:55:30

824.2 MHz (99% BW)



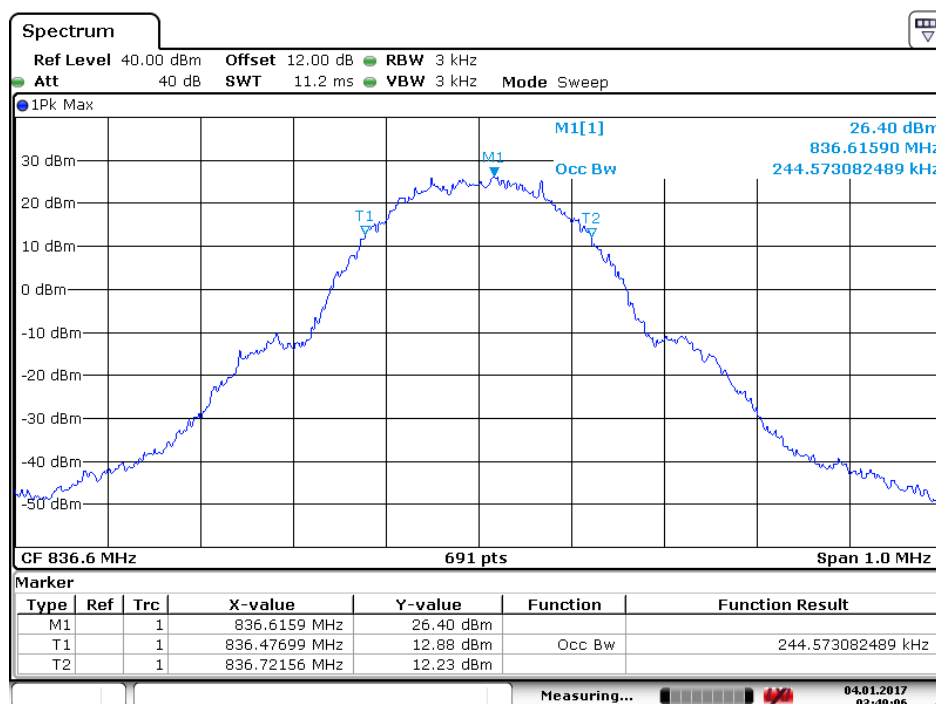
Date: 4 JAN 2017 03:47:27

836.6 MHz (-26dB BW)



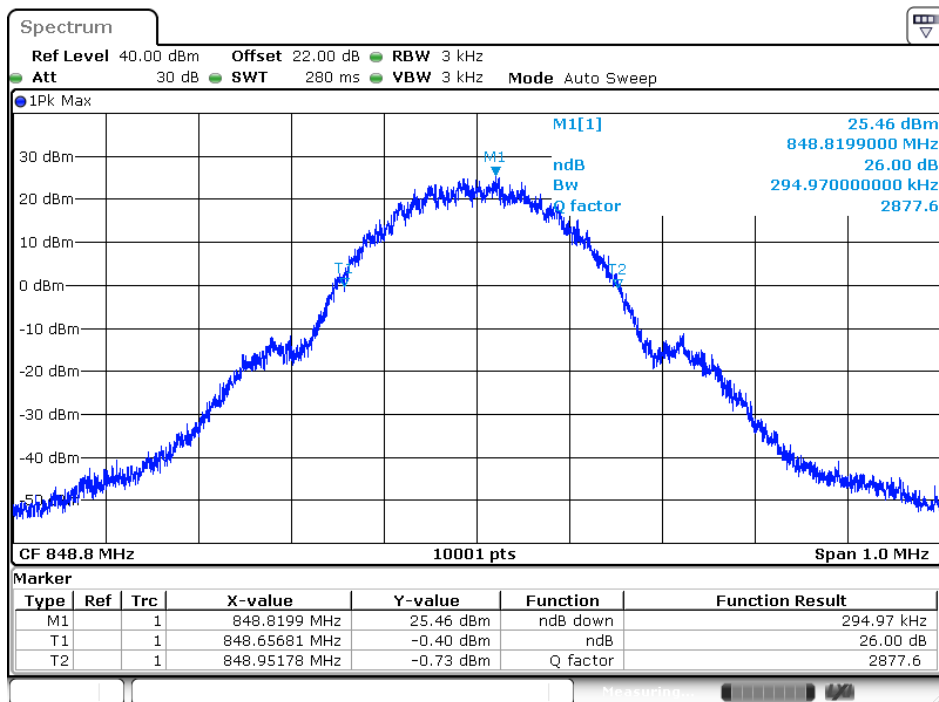
Date: 8 DEC 2016 10:59:01

836.6 MHz (99% BW)



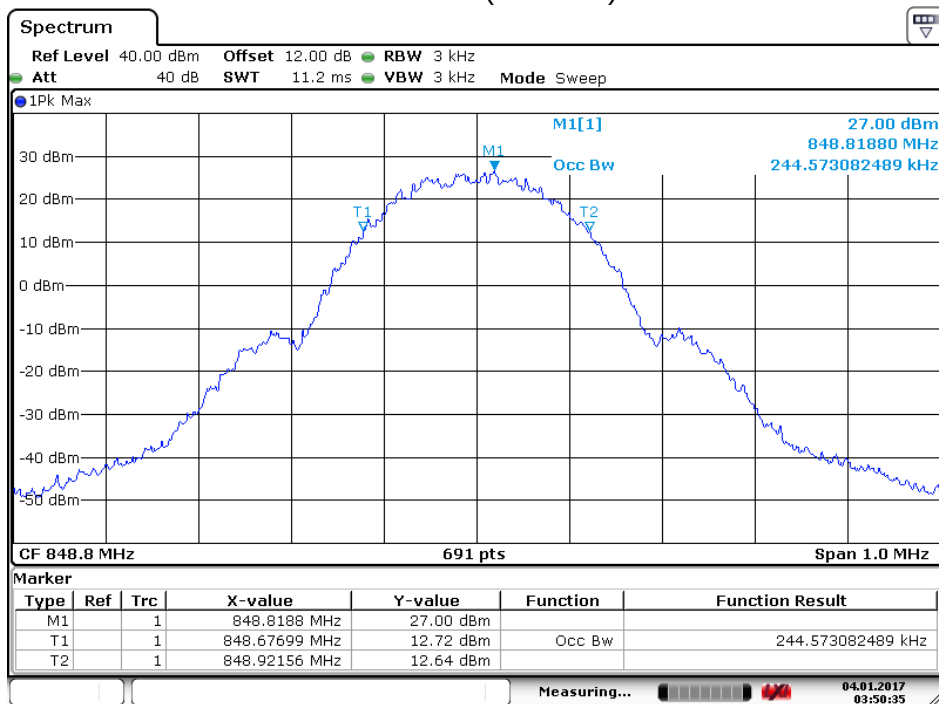
Date: 4 JAN 2017 03:49:06

848.8 MHz (-26dB BW)



Date: 8 DEC 2016 11:02:37

848.8 MHz (99% BW)

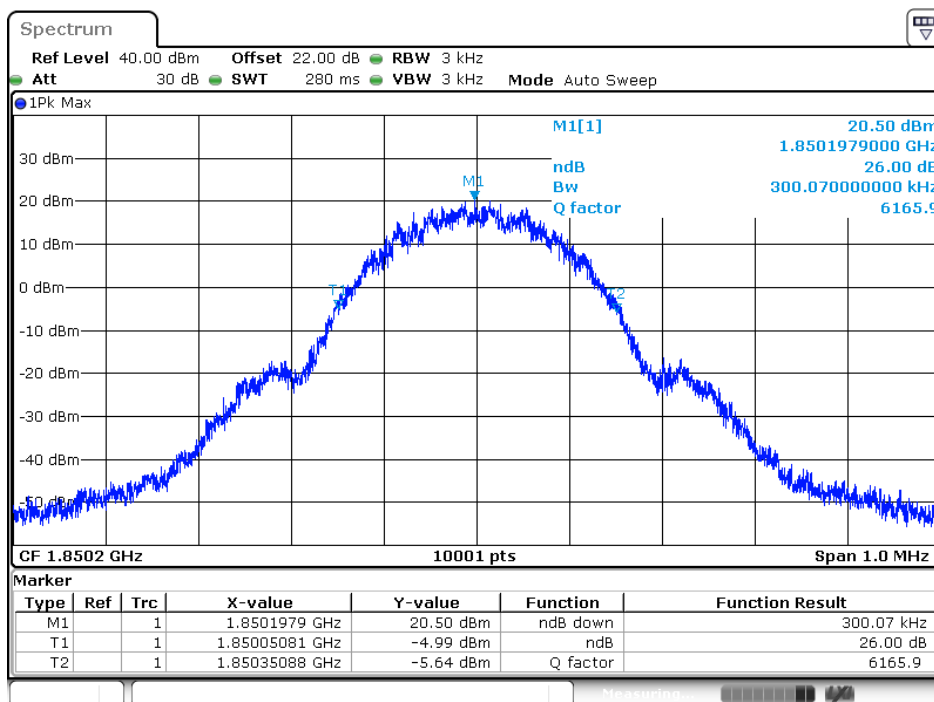


Date: 4 JAN 2017 03:50:35

Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: DCS 1900_Link Mode		
Date of Test	2016/12/08	Test Site	SR10-H

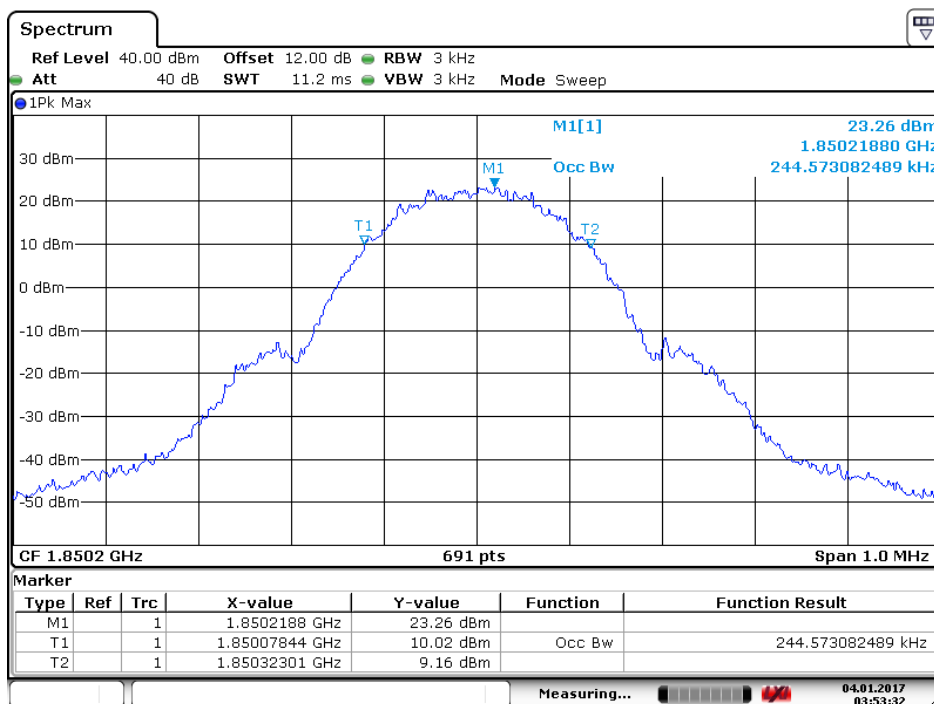
Frequency (MHz)	-26dB BW Measure Level (KHz)	99% BW Measure Level (KHz)	Limit (MHz)
1850.2	300.07	244.57	N/A
1880.0	304.17	243.12	N/A
1909.8	305.07	241.67	N/A

1850.2 MHz (-26dB BW)



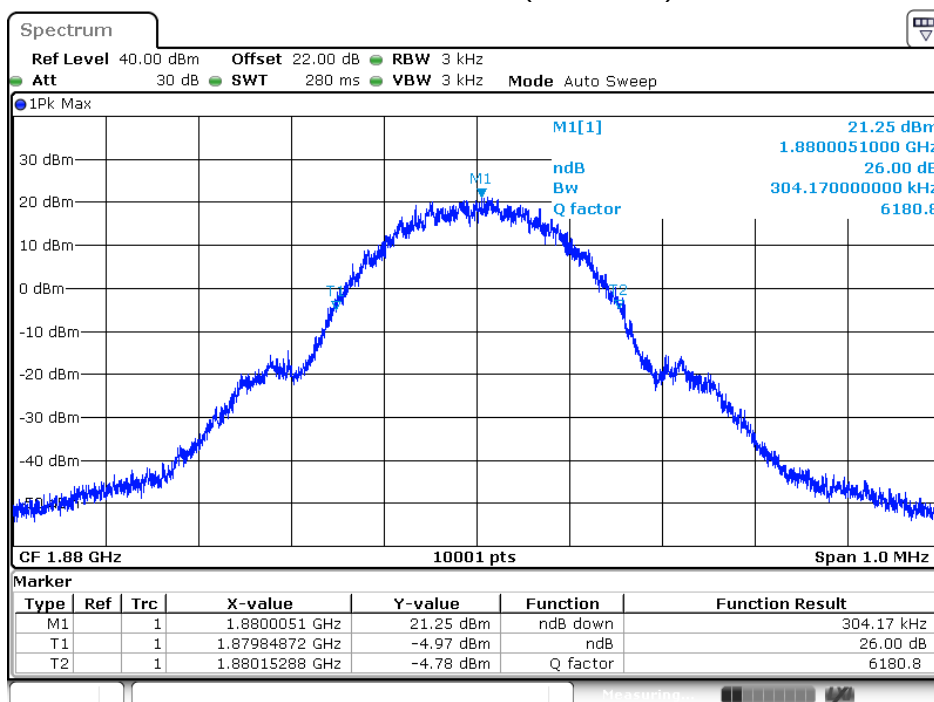
Date: 8 DEC 2016 11:07:33

1850.2 MHz (99% BW)



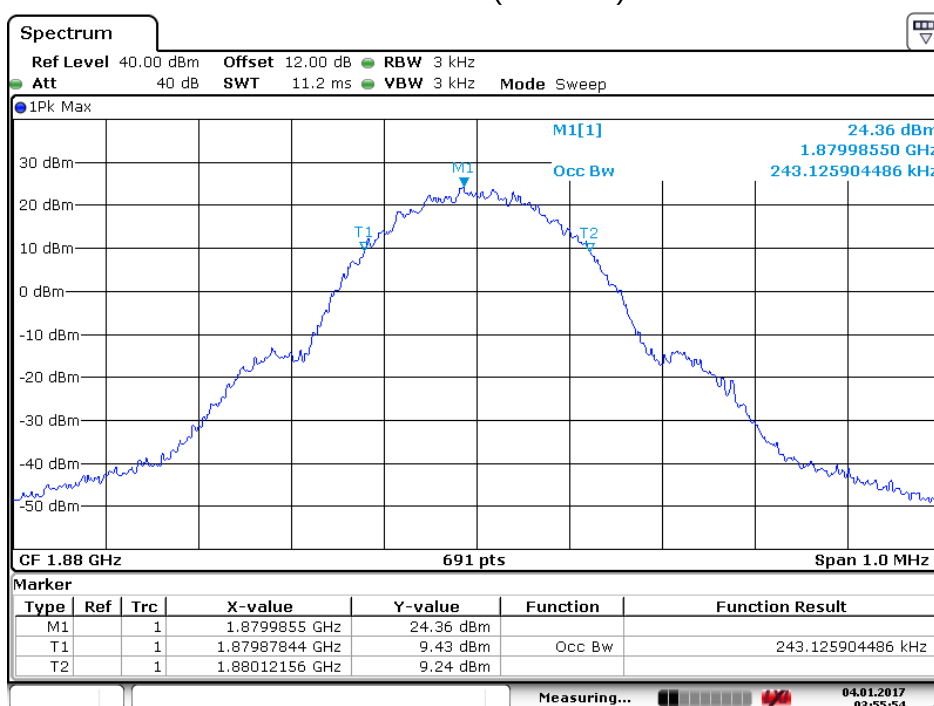
Date: 4 JAN 2017 03:53:33

1880.0 MHz (-26dB BW)



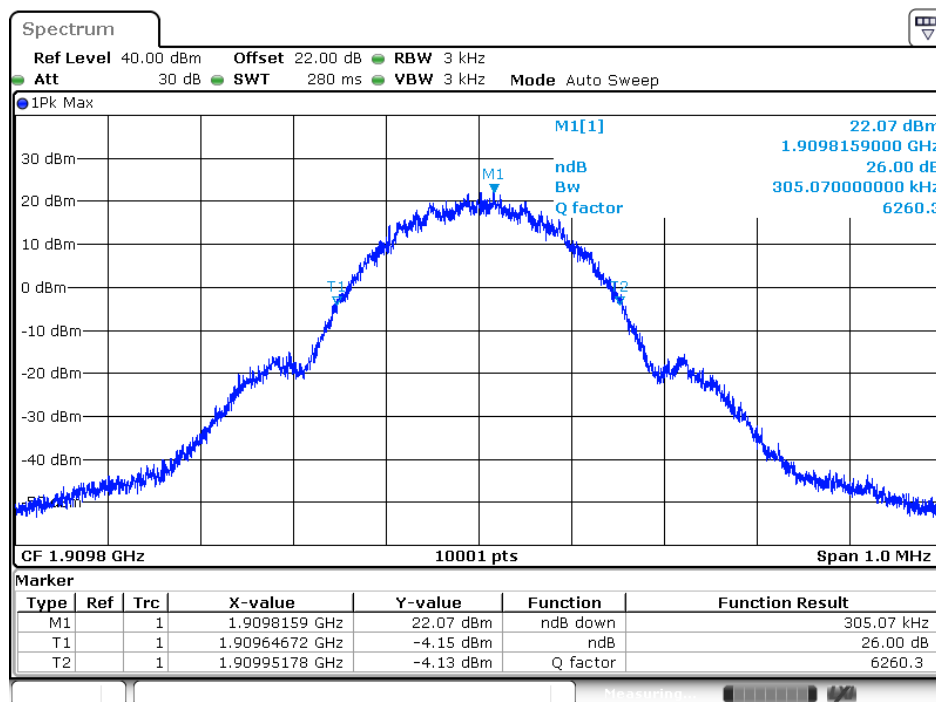
Date: 8 DEC 2016 12:10:01

1880.0 MHz (99% BW)



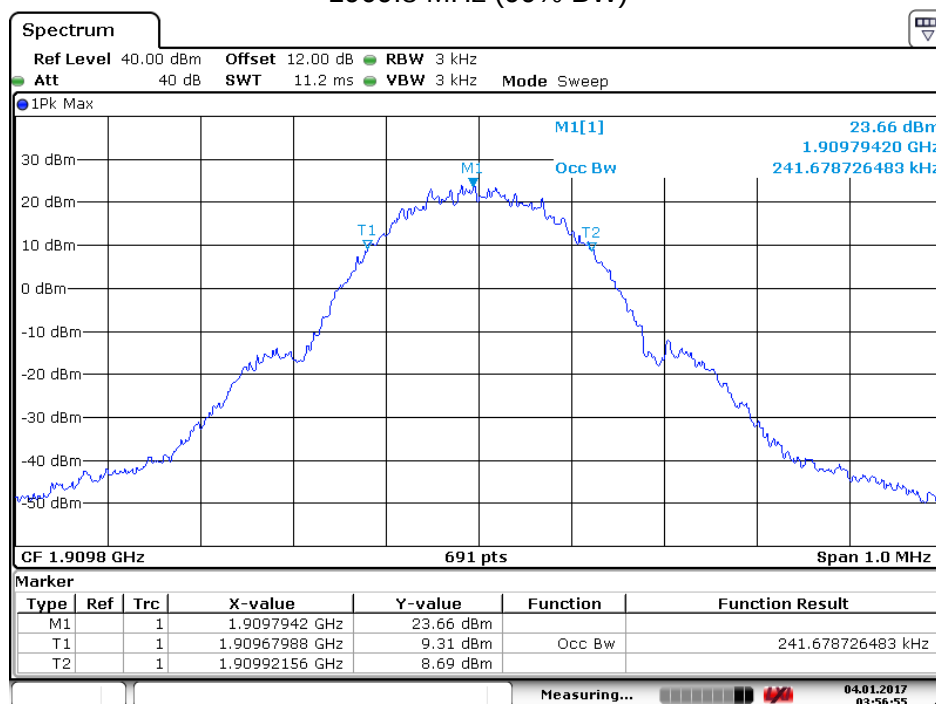
Date: 4 JAN 2017 03:55:55

1909.8 MHz (-26dB BW)



Date: 8 DEC 2016 12:14:56

1909.8 MHz (99% BW)

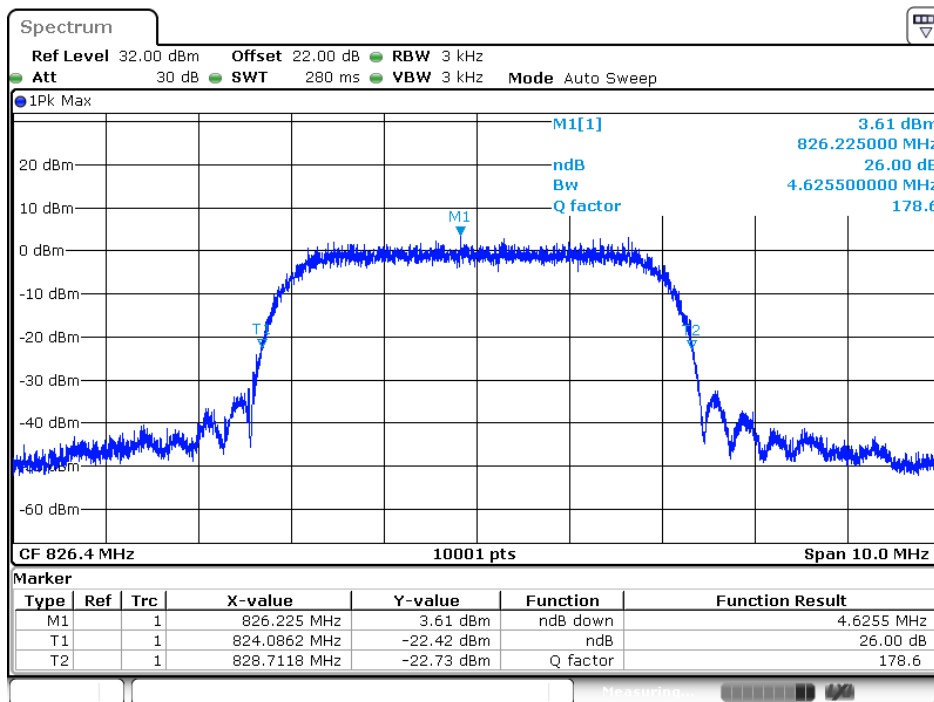


Date: 4 JAN 2017 03:56:55

Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 5: WCDMA Band 5_Link Mode		
Date of Test	2016/12/08	Test Site	SR10-H

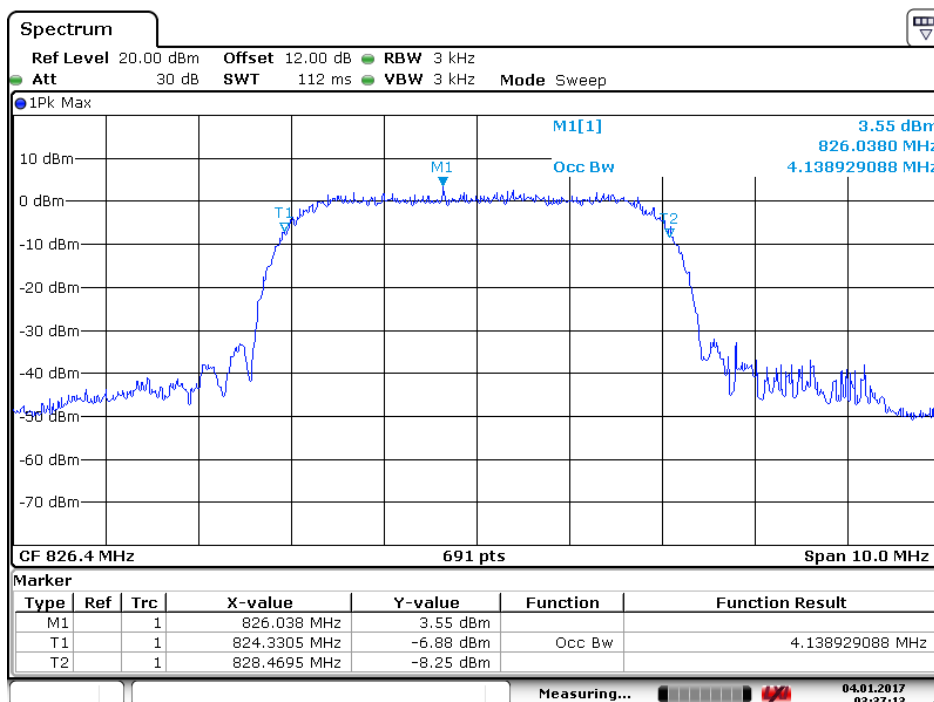
Frequency (MHz)	-26dB BW Measure Level (KHz)	99% BW Measure Level (KHz)	Limit (MHz)
826.4	4625.5	4138.9	N/A
836.6	4652.5	4138.9	N/A
846.6	4627.5	4138.9	N/A

826.4 MHz (-26dB BW)



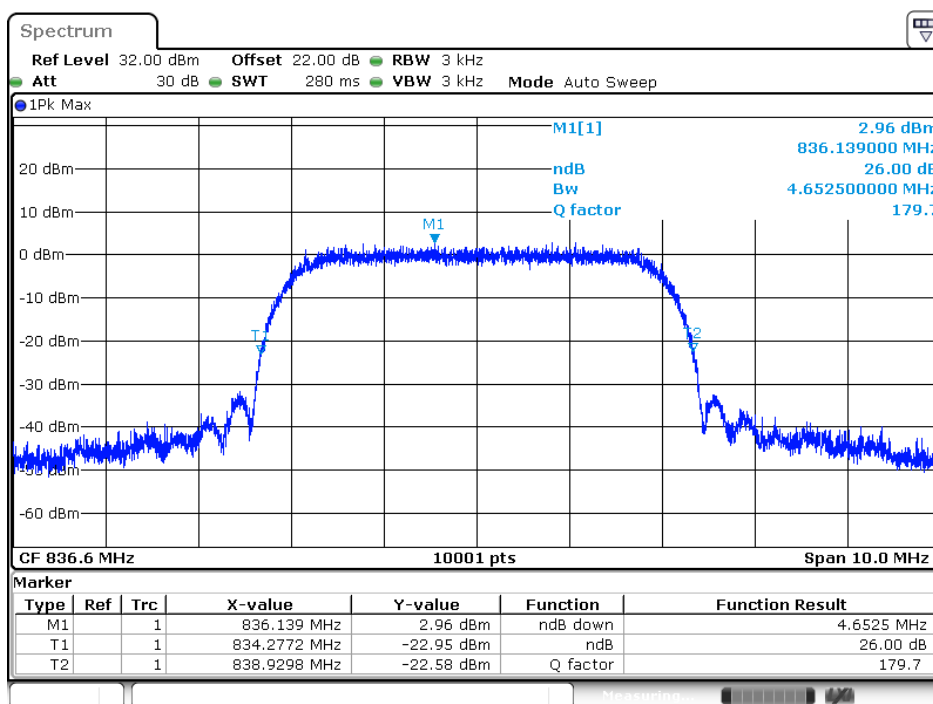
Date: 8 DEC 2016 10:40:40

826.4 MHz (99% BW)



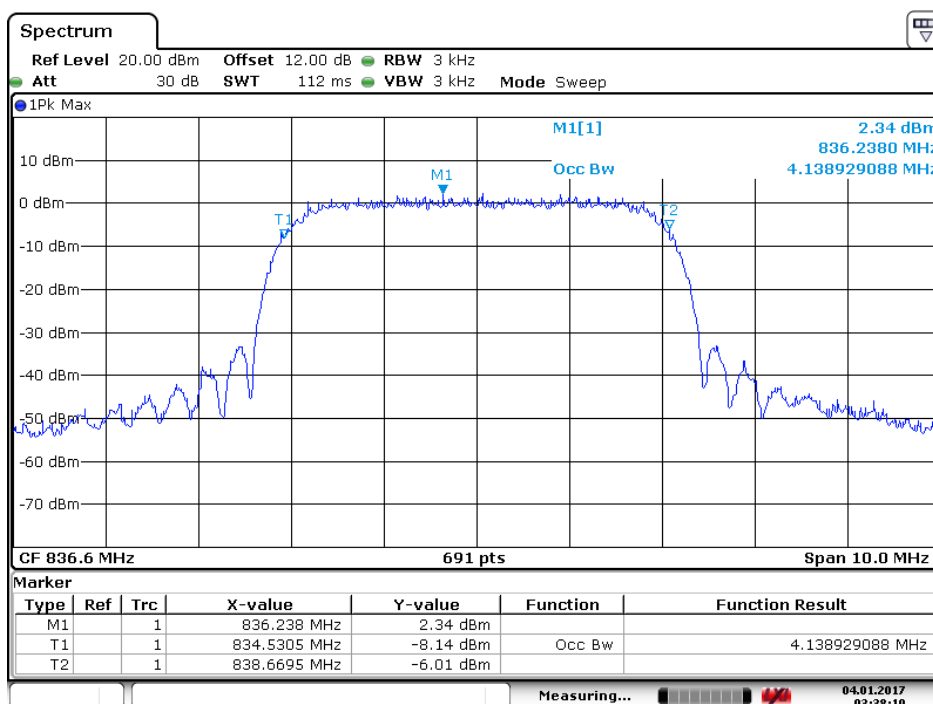
Date: 4 JAN 2017 03:37:13

836.6 MHz (-26dB BW)



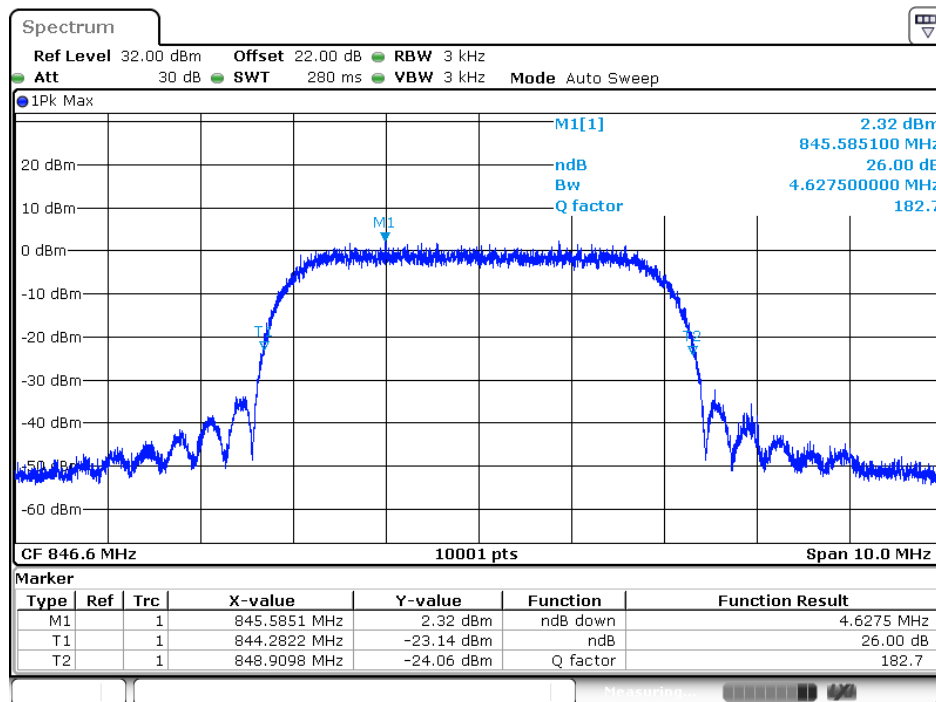
Date: 8 DEC 2016 10:39:41

836.6 MHz (99% BW)



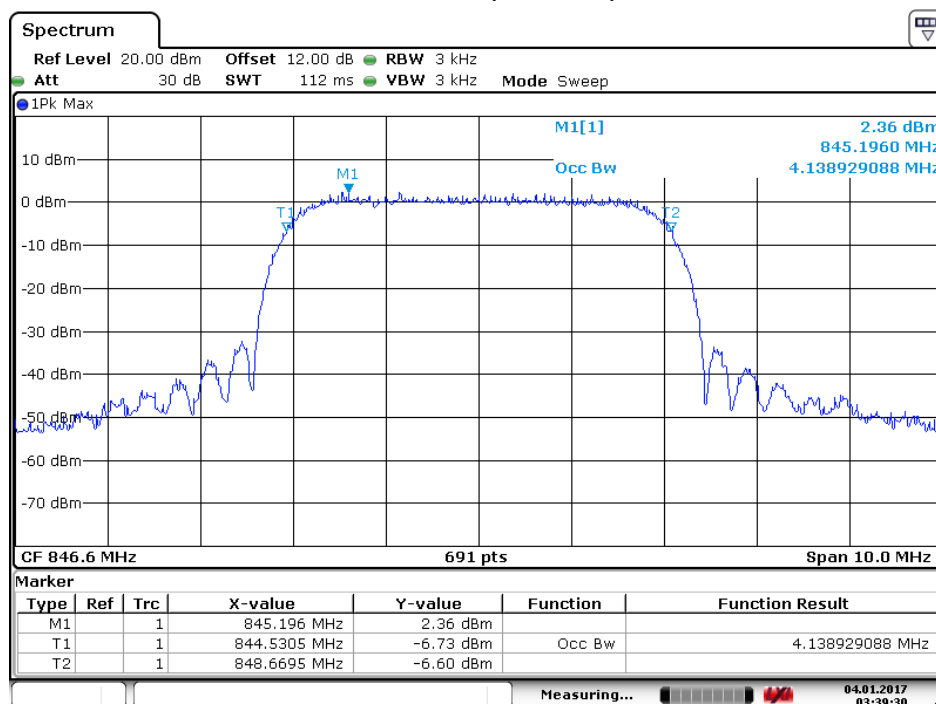
Date: 4 JAN 2017 03:38:10

846.6 MHz (-26dB BW)



Date: 8 DEC 2016 10:37:45

846.6 MHz (99% BW)

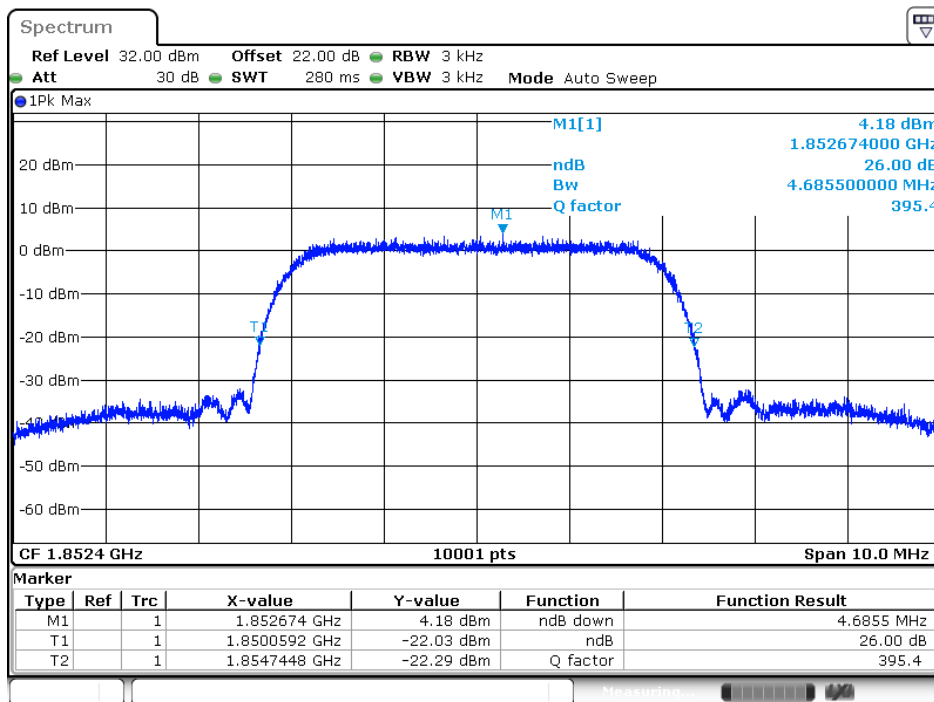


Date: 4 JAN 2017 03:39:30

Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 7: WCDMA Band 2_Link Mode		
Date of Test	2016/12/08	Test Site	SR10-H

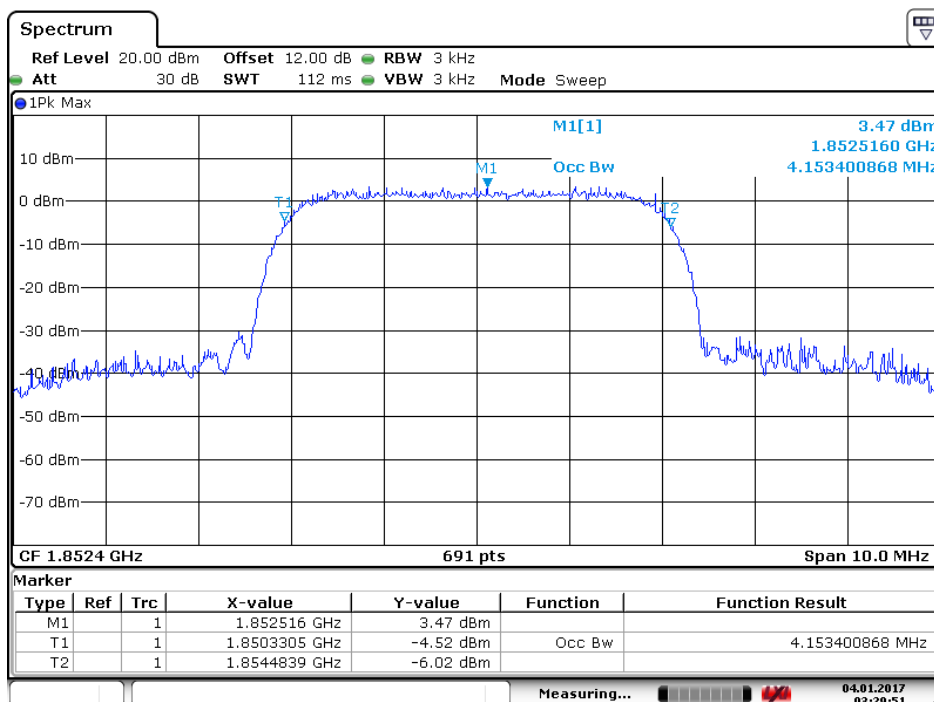
Frequency (MHz)	-26dB BW Measure Level (KHz)	99% BW Measure Level (KHz)	Limit (MHz)
1852.4	4685.5	4153.4	N/A
1880.0	4650.5	4153.4	N/A
1907.6	4677.5	4153.4	N/A

1852.4 MHz (-26dB BW)



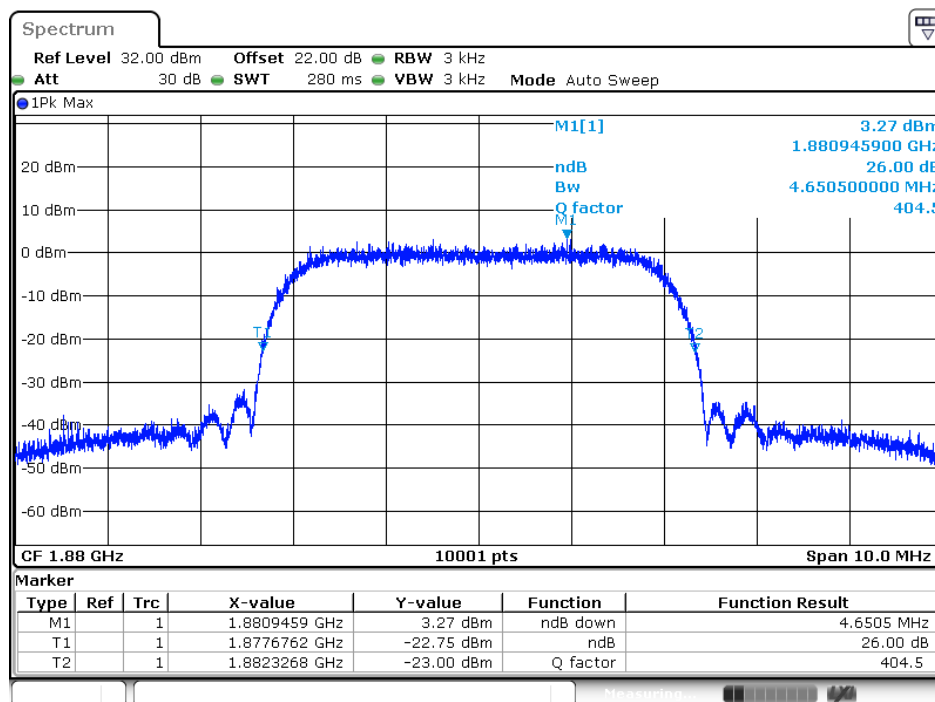
Date: 8 DEC 2016 10:23:05

1852.4 MHz (99% BW)



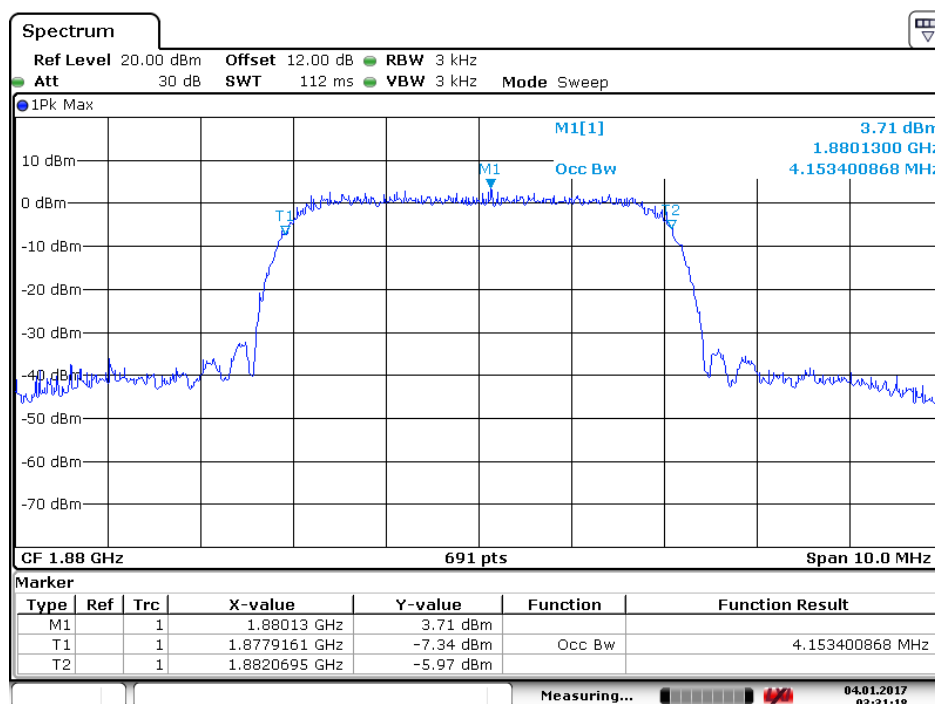
Date: 4 JAN 2017 03:29:52

1880.0 MHz (-26dB BW)



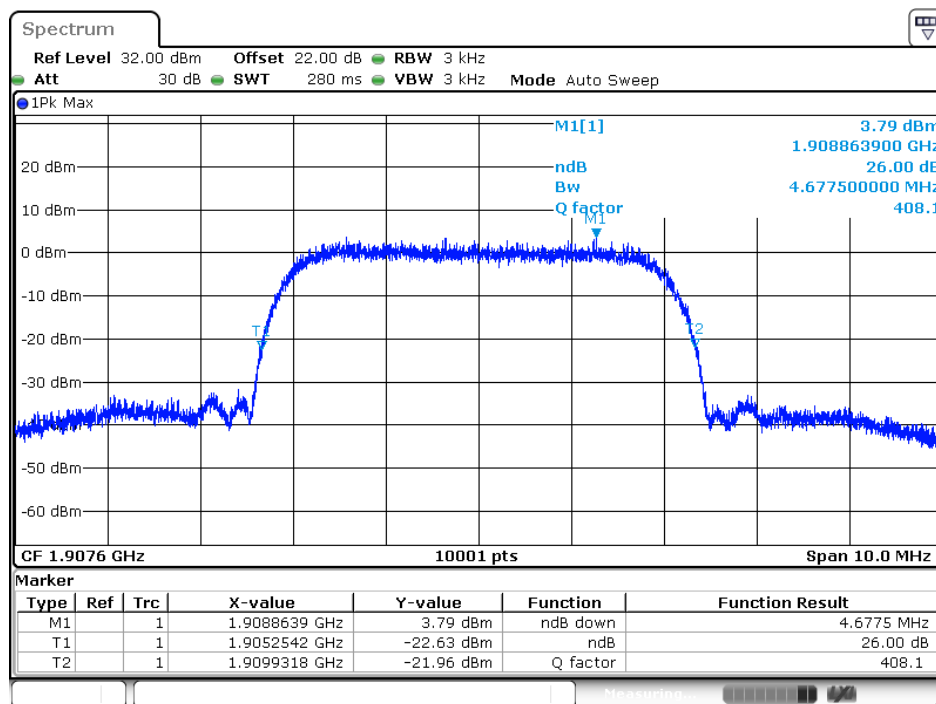
Date: 8 DEC 2016 10:30:18

1880.0 MHz (99% BW)

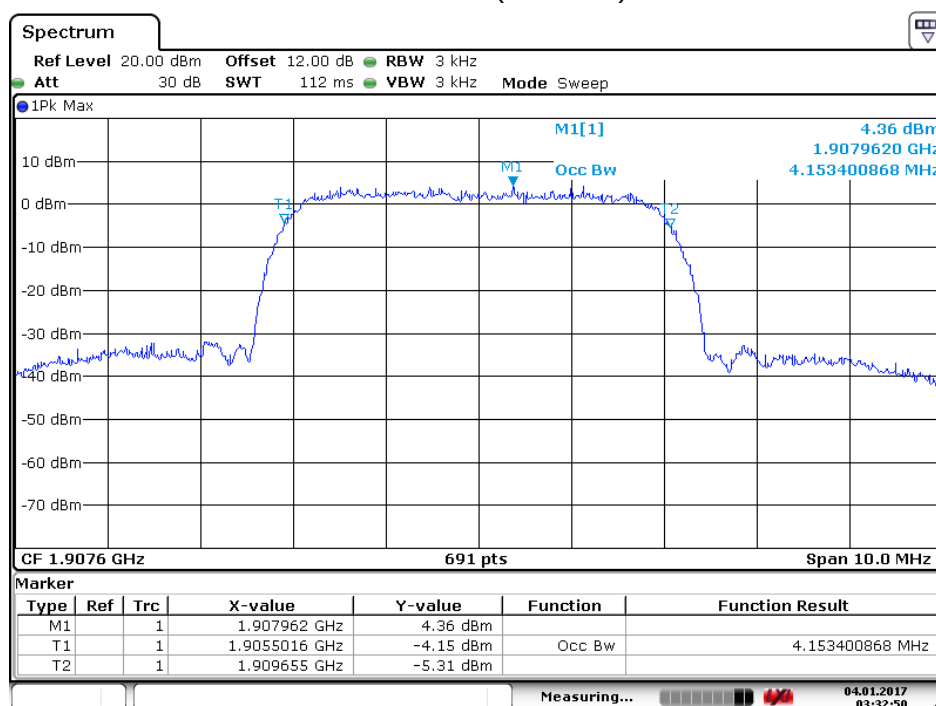


Date: 4 JAN 2017 03:31:18

1907.6 MHz (-26dB BW)



1907.6 MHz (99% BW)

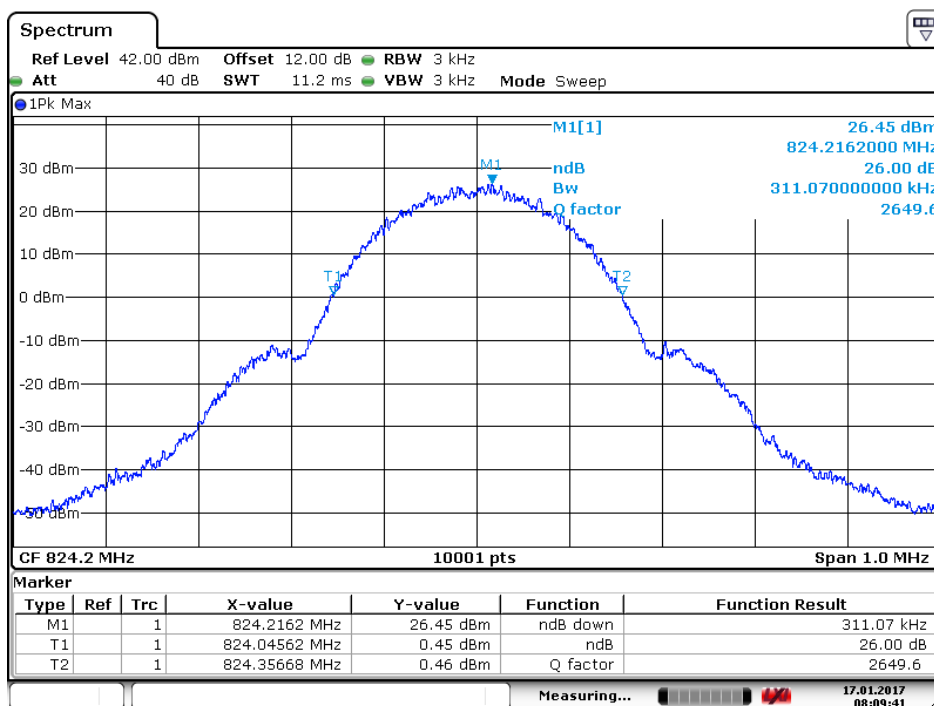


Date: 4 JAN 2017 03:32:51

Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 9: GSM_EGPRS 850_Link Mode		
Date of Test	2017/01/17	Test Site	SR10-H

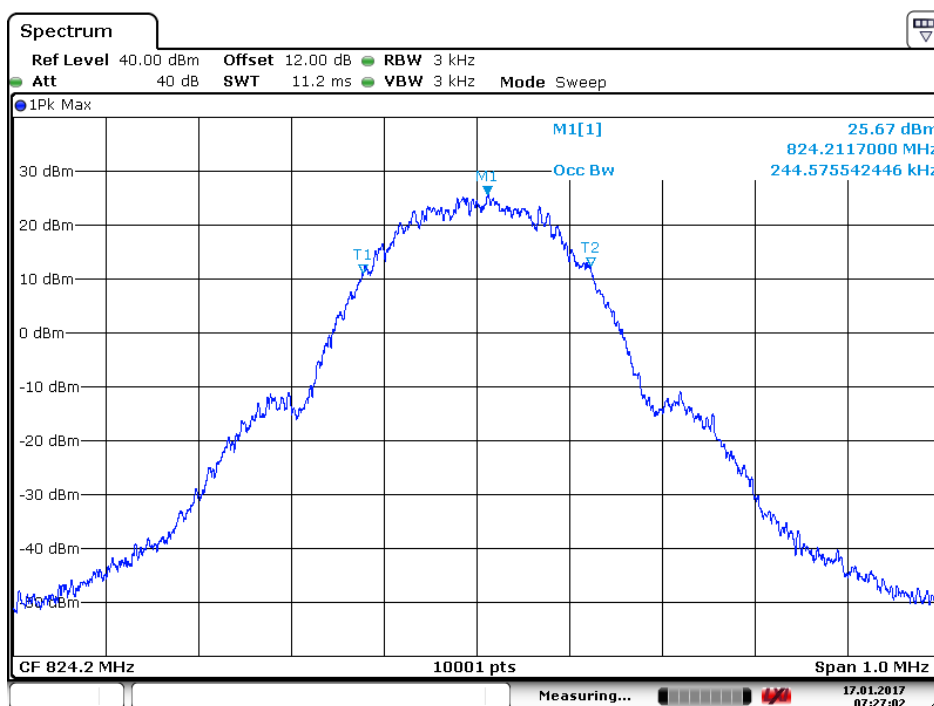
Frequency (MHz)	-26dB BW Measure Level (KHz)	99% BW Measure Level (KHz)	Limit (MHz)
824.2	311.07	244.58	N/A
836.6	312.17	244.38	N/A
848.8	309.97	245.38	N/A

824.2 MHz (-26dB BW)



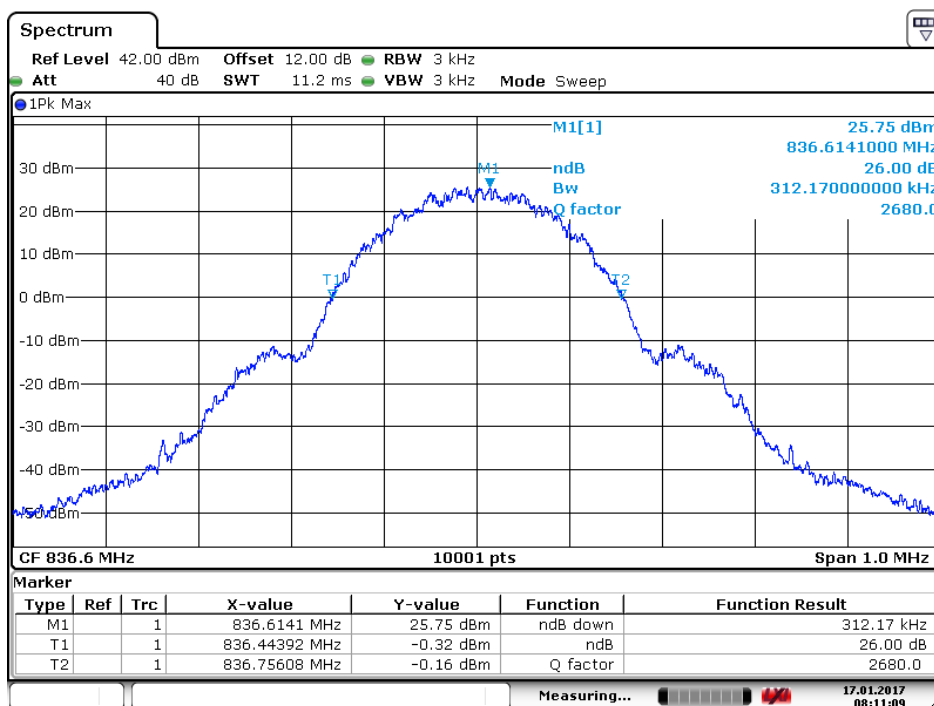
Date: 17.JAN 2017 08:09:41

824.2 MHz (99% BW)



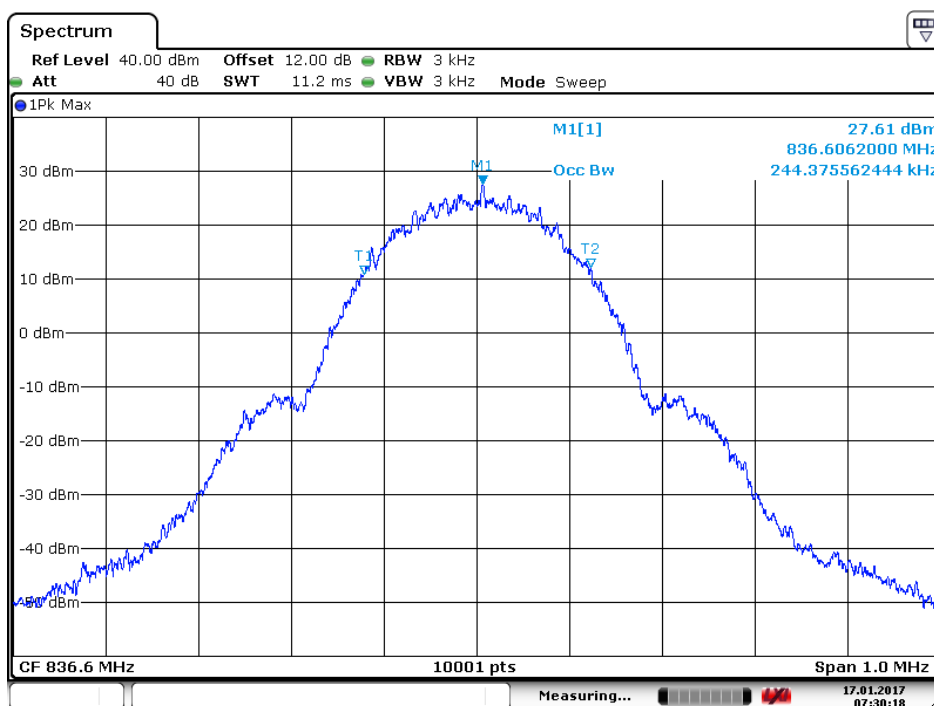
Date: 17.JAN 2017 07:27:02

836.6 MHz (-26dB BW)



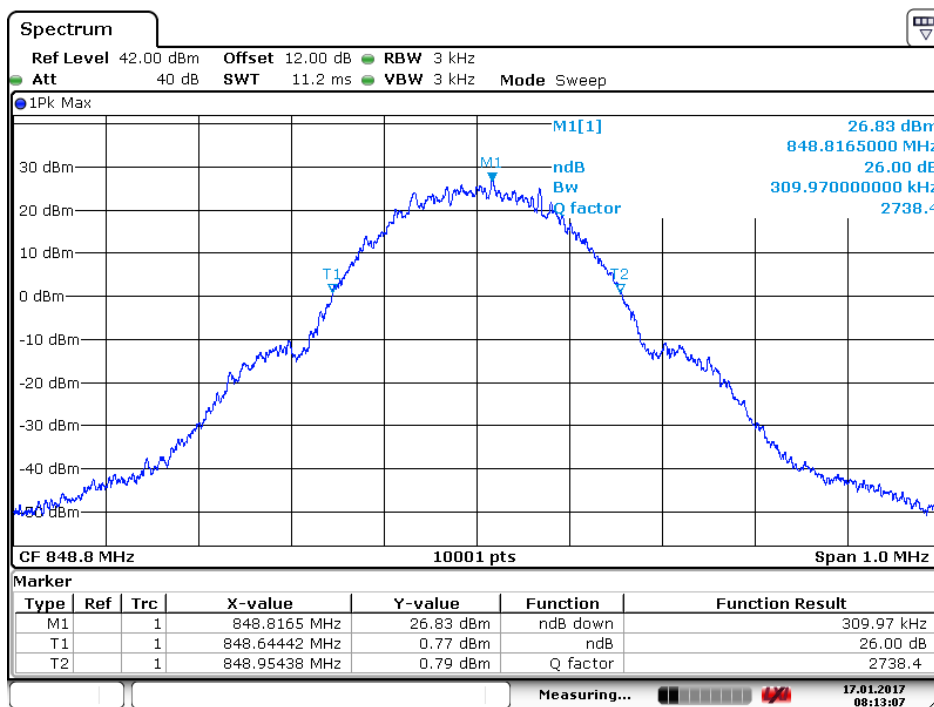
Date:17.JAN 2017 08:11:09

836.6 MHz (99% BW)



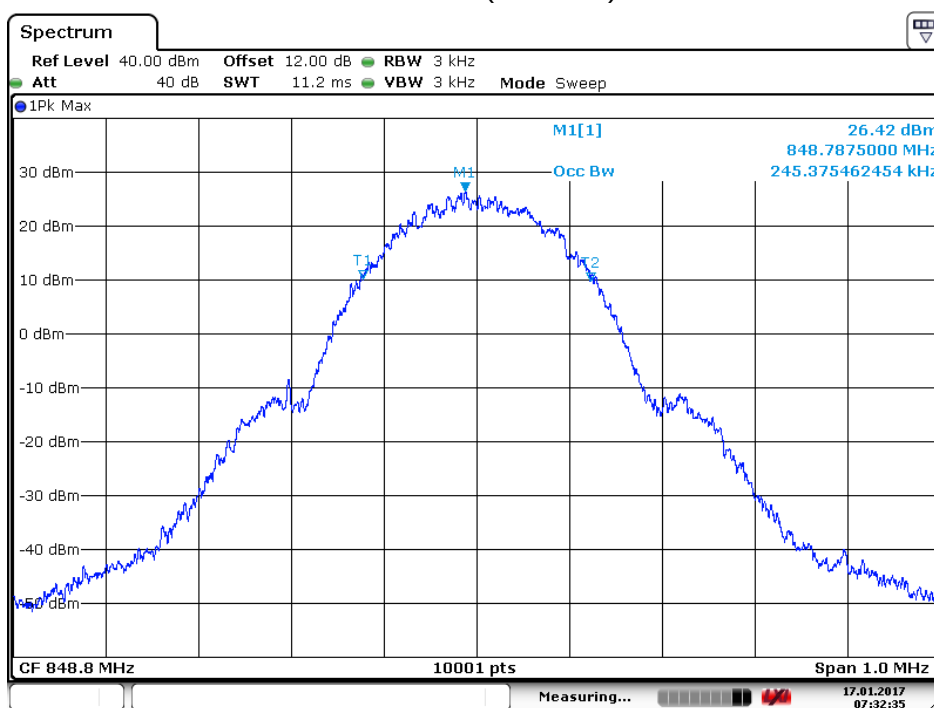
Date:17.JAN 2017 07:30:18

848.8 MHz (-26dB BW)



Date:17.JAN 2017 08:13:07

848.8 MHz (99% BW)

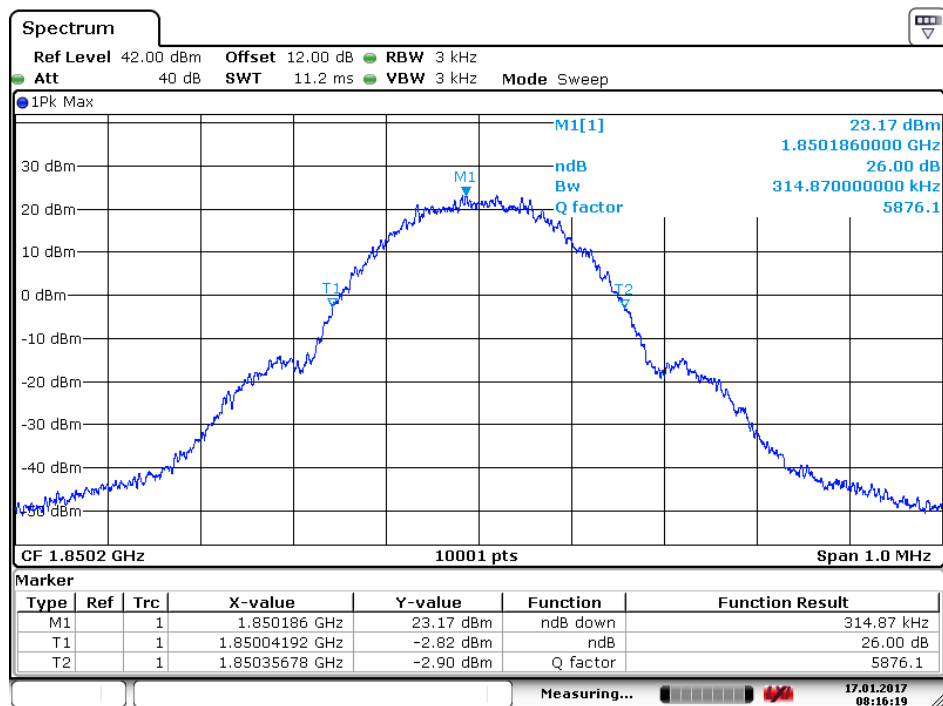


Date:17.JAN 2017 07:32:35

Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 11: DCS_EGPRS 1900_Link Mode		
Date of Test	2017/01/17	Test Site	SR10-H

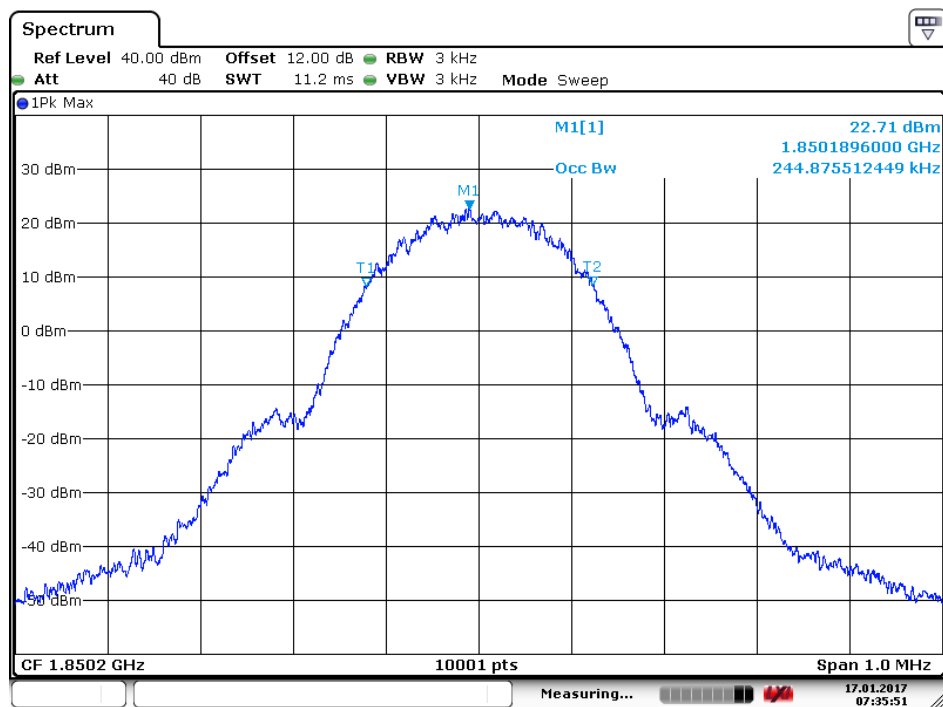
Frequency (MHz)	-26dB BW Measure Level (KHz)	99% BW Measure Level (KHz)	Limit (MHz)
1850.2	314.87	244.88	N/A
1880.0	314.07	244.08	N/A
1909.8	313.87	244.48	N/A

1850.2 MHz (-26dB BW)



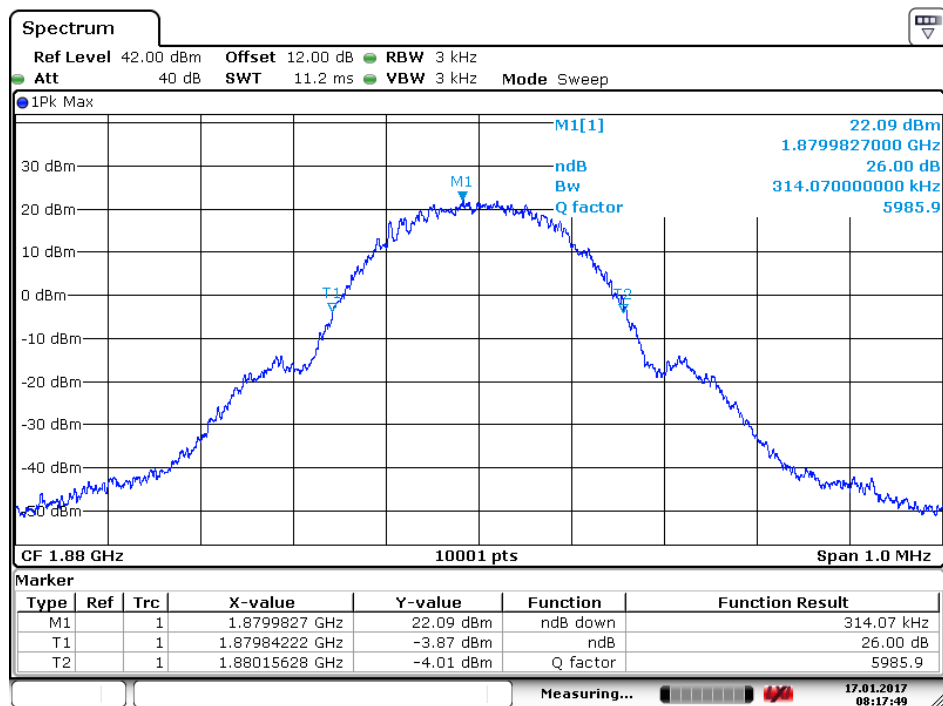
Date: 17.JAN 2017 08:16:19

1850.2 MHz (99% BW)



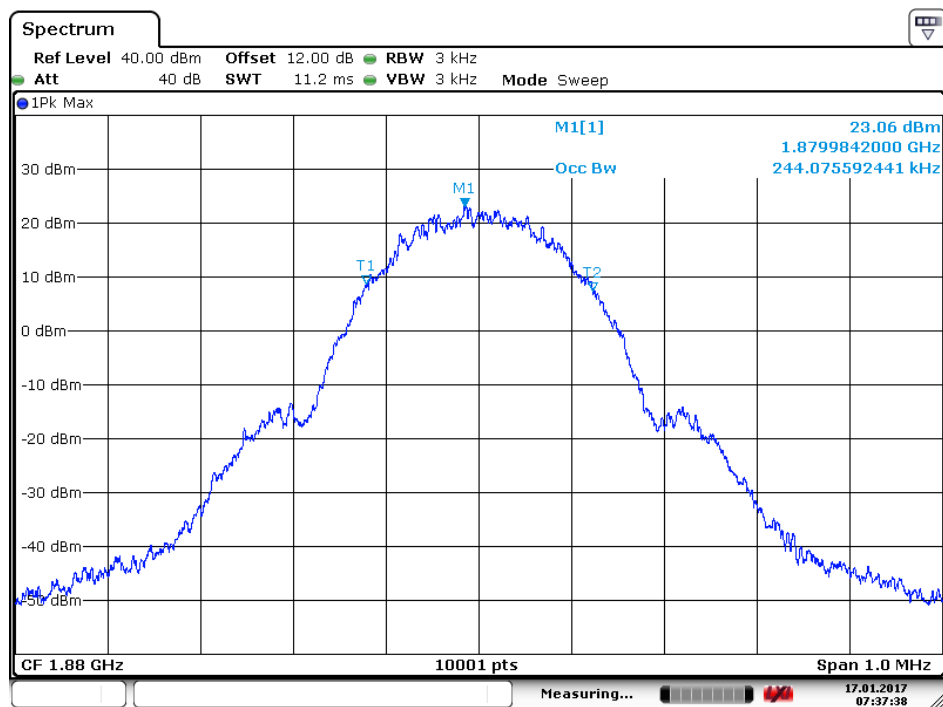
Date: 17.JAN 2017 07:35:52

1880.0 MHz (-26dB BW)



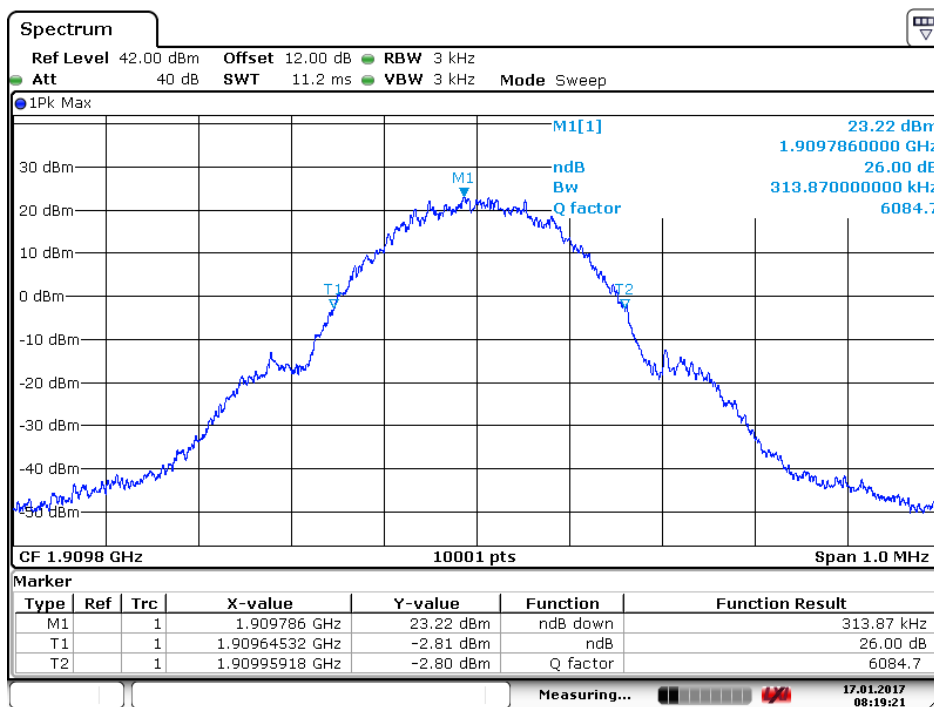
Date:17.JAN 2017 08:17:50

1880.0 MHz (99% BW)



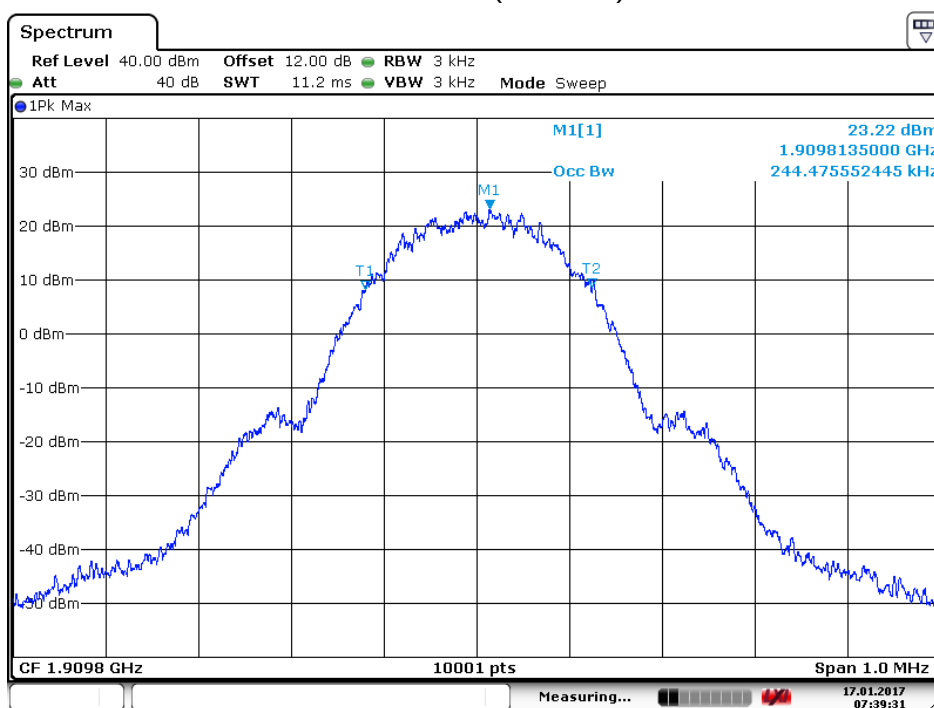
Date:17.JAN 2017 07:37:38

1909.8 MHz (-26dB BW)



Date:17.JAN 2017 08:19:21

1909.8 MHz (99% BW)



Date:17.JAN 2017 07:39:31

5. Spurious Emission At Antenna Terminals (+/- 1MHz)

5.1. Test Equipment

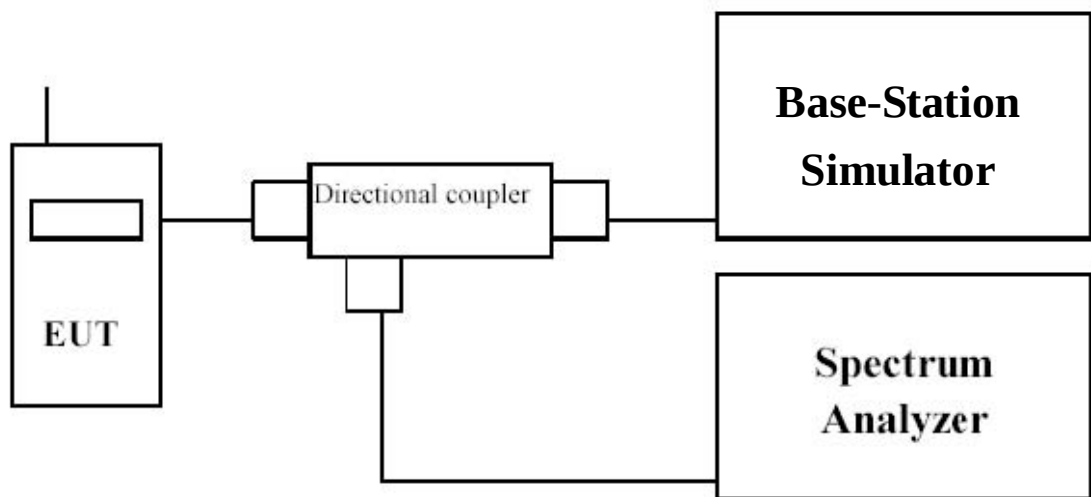
The following test equipments are used during the RF power output tests:

Spurious Emission At Antenna Terminals (+/- 1MHz)/ SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSVA40	101455	2017/11/27
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Directional coupler	Agilent	778D	20402	2017/10/06

Note: All equipments upon which need to be calibrated are with calibration period of 1 year.

5.2. Test Setup



5.3. Limit

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

5.4. Test Procedure

In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

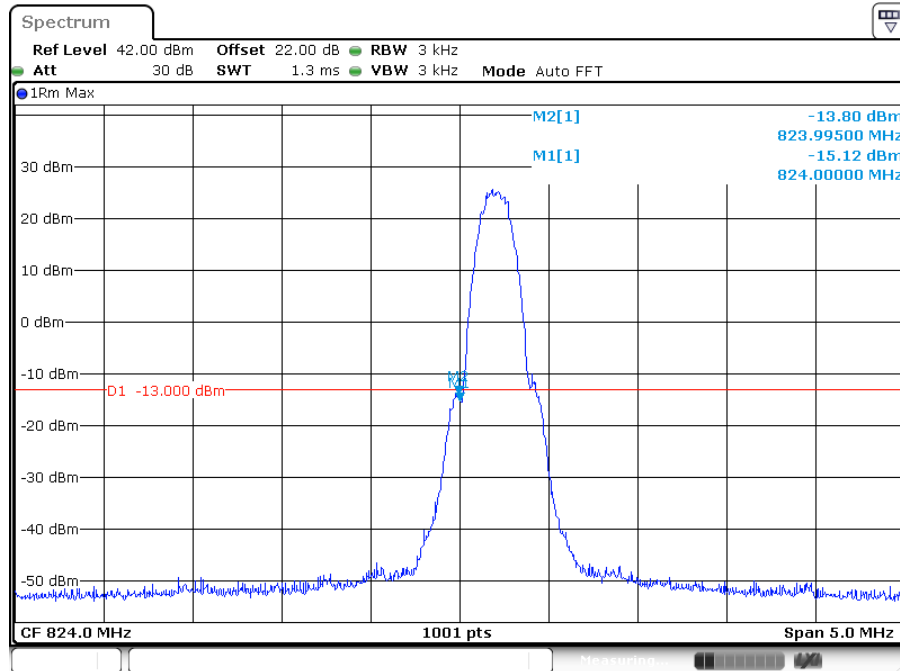
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.2 dB.

5.6. Test Result

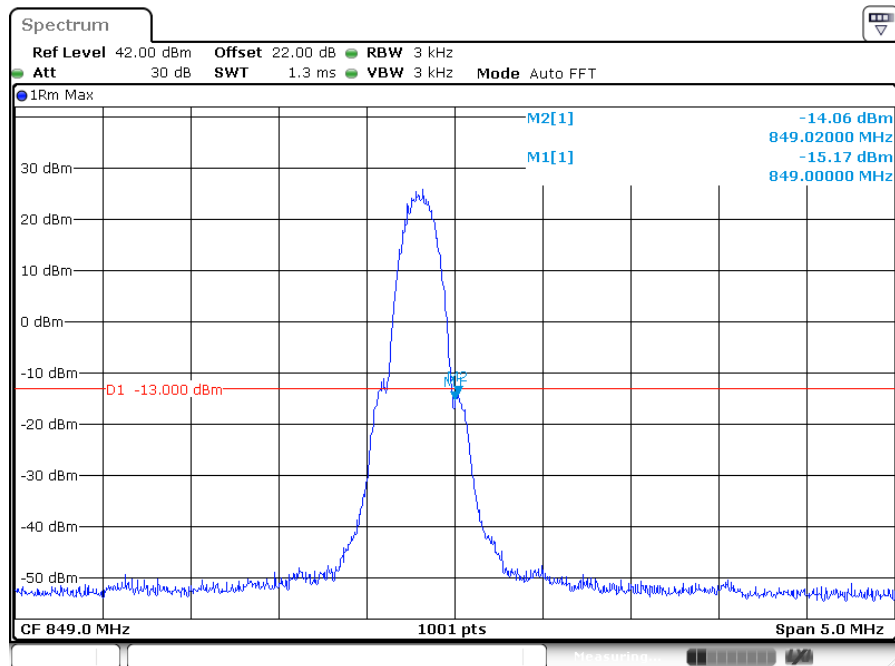
Product	Module		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 1: GSM 850_Link Mode		
Date of Test	2016/12/08	Test Site	SR10-H

824.2 MHz



Date: 8 DEC 2016 15:02:57

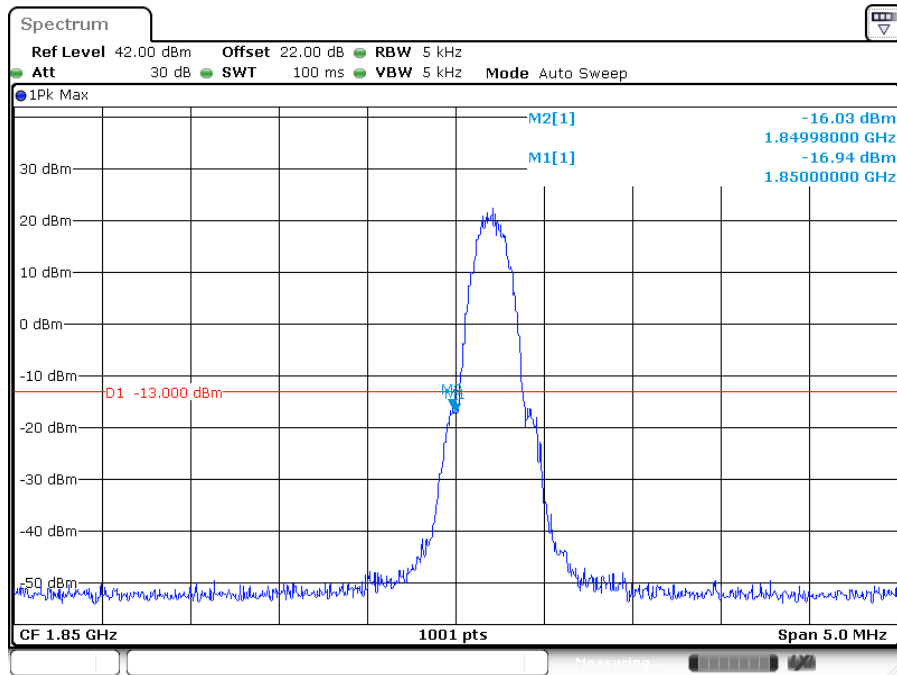
848.8 MHz



Date: 8 DEC 2016 15:06:46

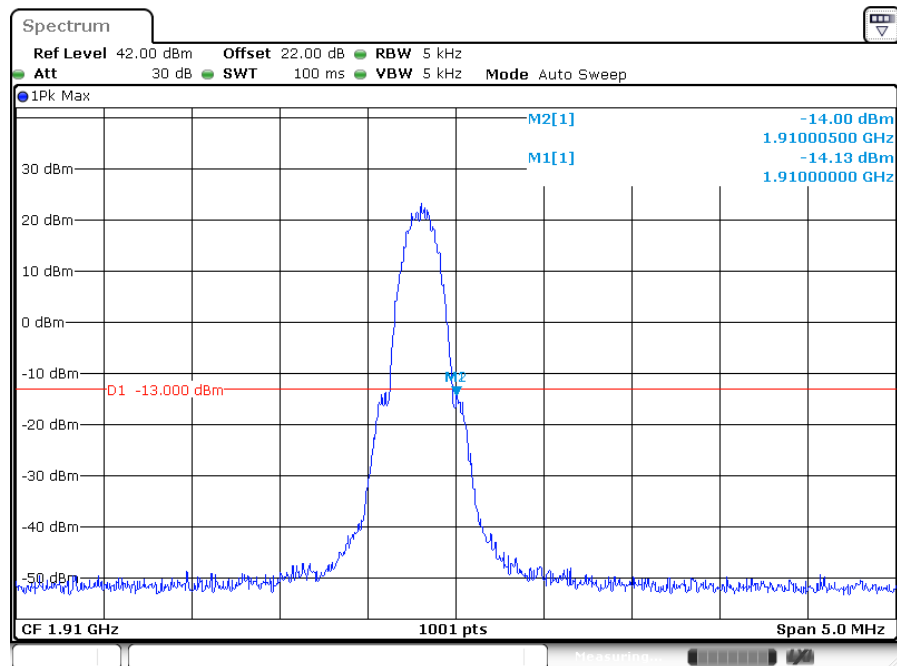
Product	Module		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 3: DCS 1900_Link Mode		
Date of Test	2016/12/08	Test Site	SR10-H

1850.2 MHz



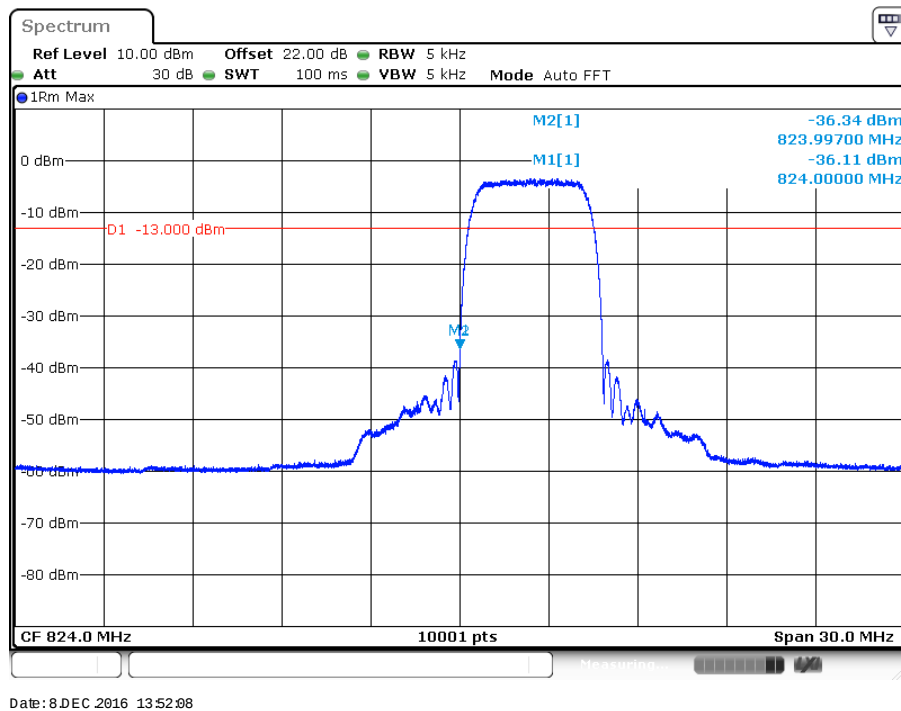
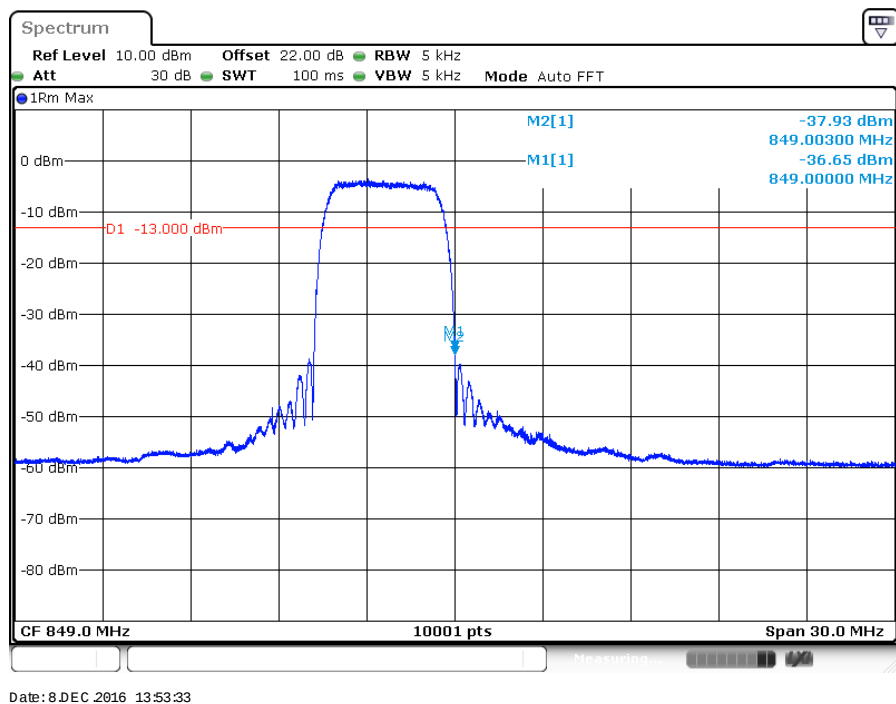
Date: 8 DEC 2016 17:36:56

1909.8 MHz



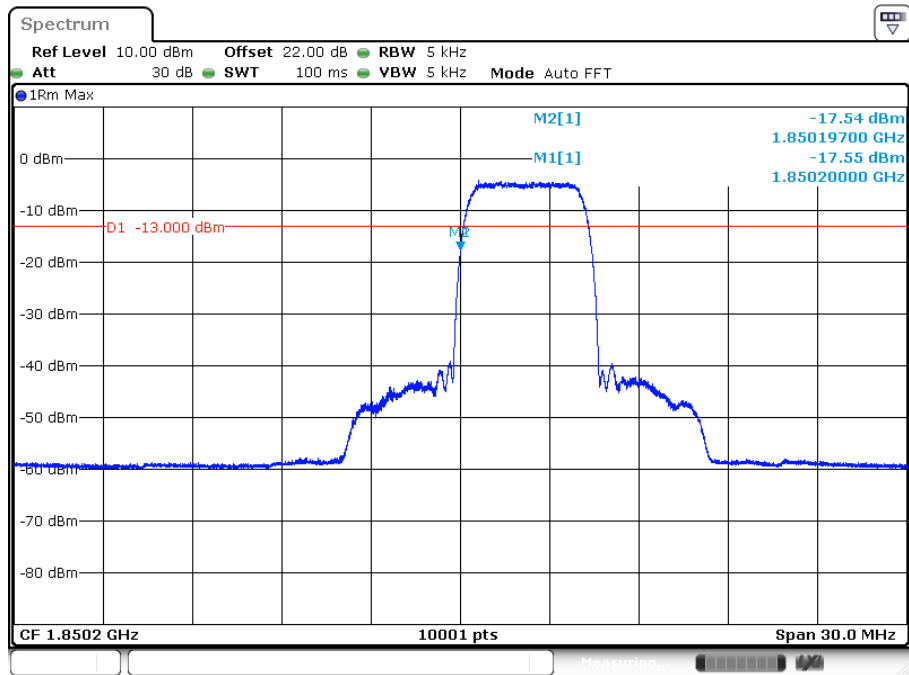
Date: 8 DEC 2016 17:39:17

Product	Module		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 5: WCDMA Band 5_Link Mode		
Date of Test	2016/12/08	Test Site	SR10-H

826.4 MHz**846.4 MHz**

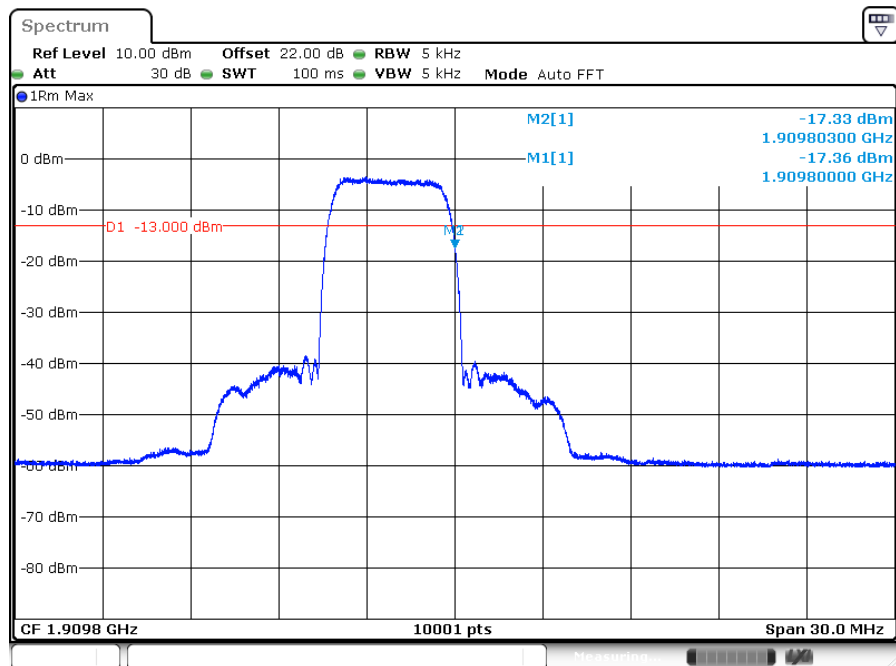
Product	Module		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 7: WCDMA Band 2_Link Mode		
Date of Test	2016/12/08	Test Site	SR10-H

1852.4 MHz



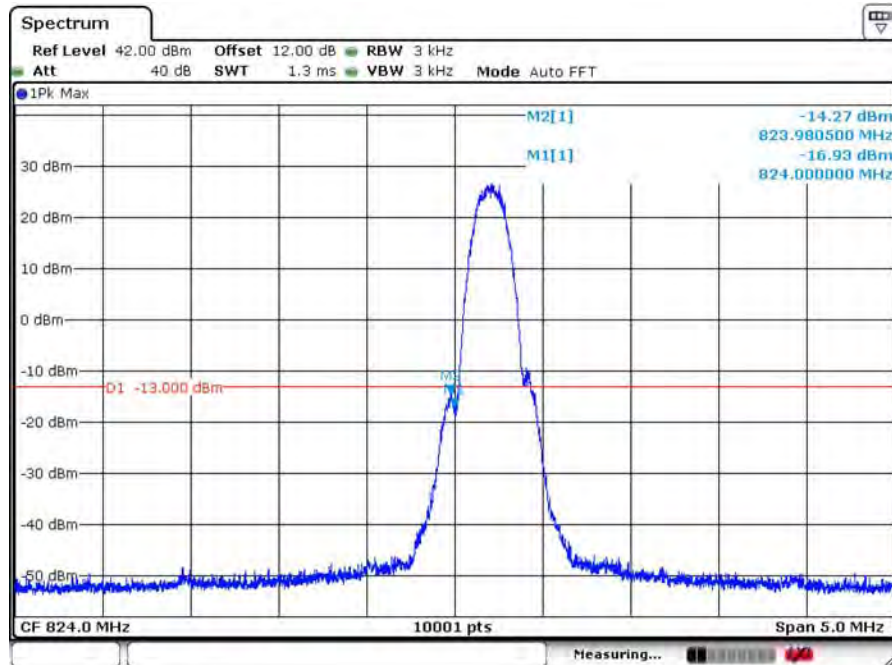
Date: 8 DEC 2016 13:34:15

1907.6 MHz

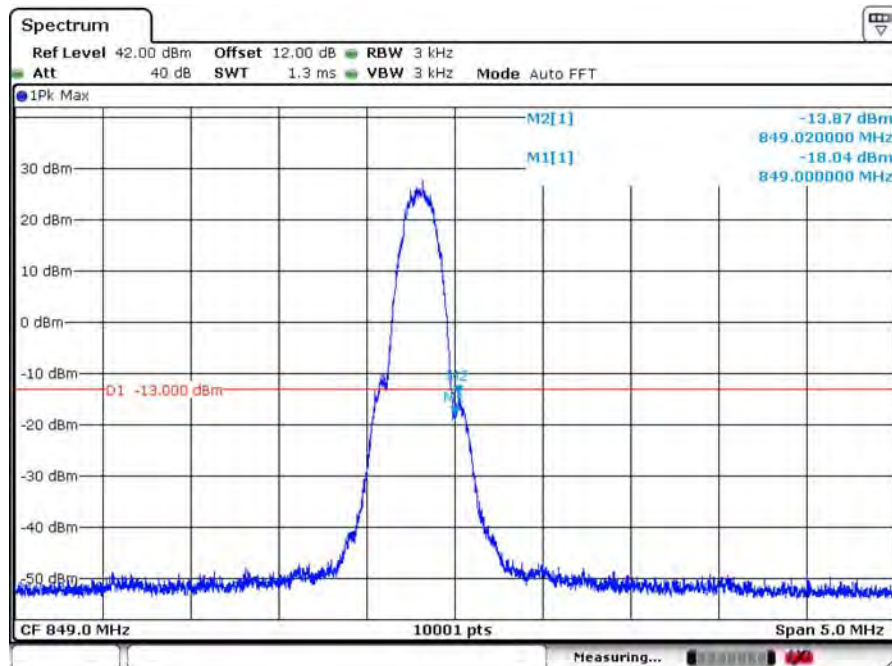


Date: 8 DEC 2016 13:38:20

Product	Module		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 9: GSM_EGPRS 850_Link Mode		
Date of Test	2017/01/17	Test Site	SR10-H

824.2 MHz

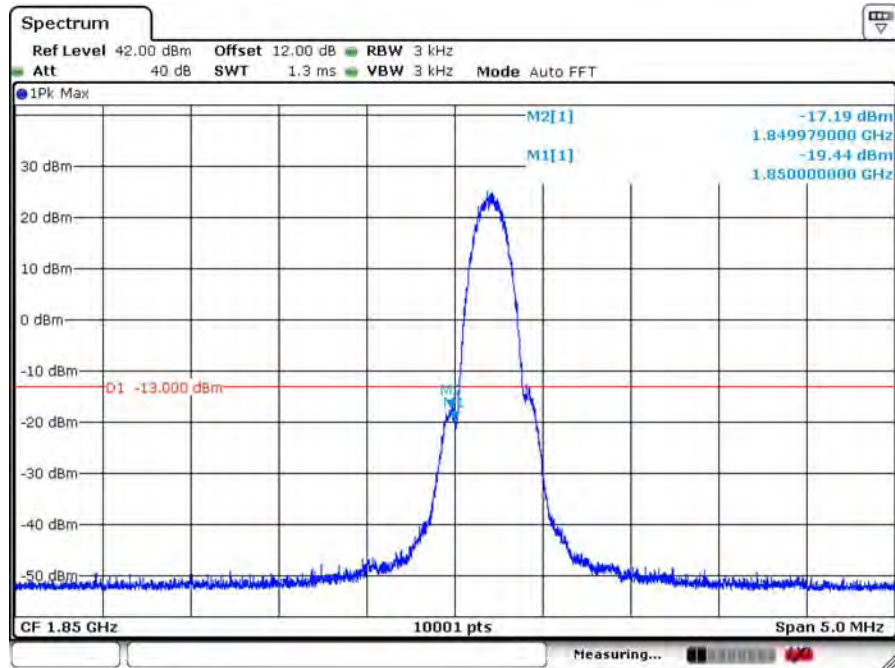
Date: 17 JAN 2017 17:38:13

848.8 MHz

Date: 17 JAN 2017 17:40:04

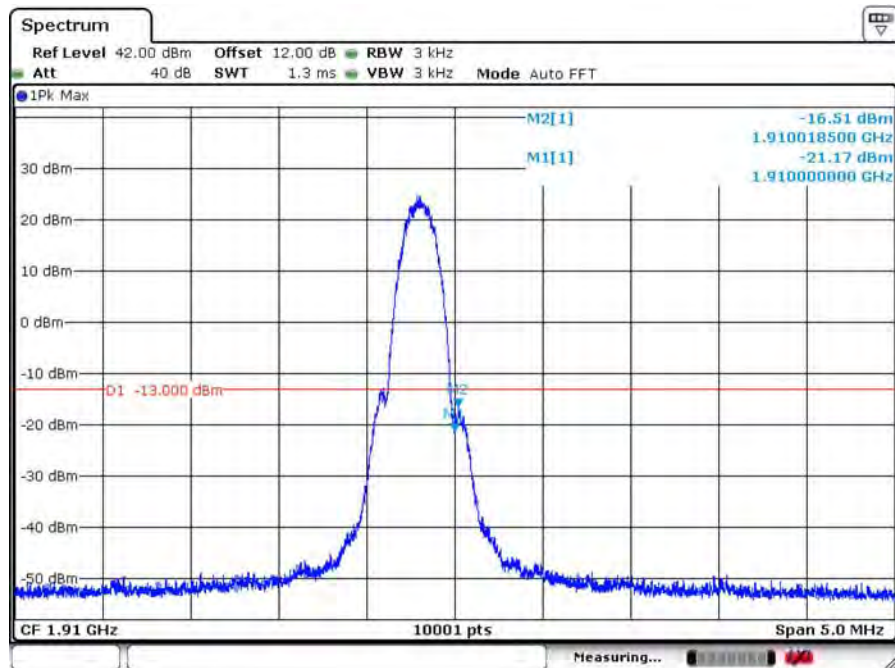
Product	Module		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 11: DCS_EGPRS 1900_Link Mode		
Date of Test	2017/01/17	Test Site	SR10-H

1850.2 MHz



Date: 17 JAN 2017 17:33:23

1909.8 MHz



Date: 17 JAN 2017 17:12:26

6. Spurious Emission

6.1. Test Equipment

The following test equipments are used during the radiated emission test:

Conducted Spurious Emission /SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSVA40	101455	2017/11/27
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Directional coupler	Agilent	778D	20402	2017/10/06

Radiated Spurious Emission /CB4-H

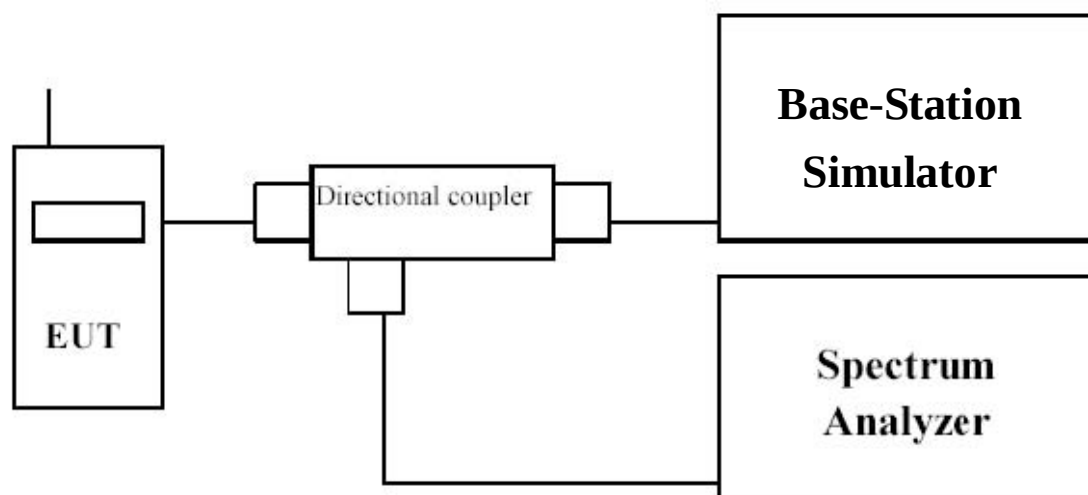
Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Test Receiver	R&S	ESCS 30	100122	2017/01/21
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Signal & Spectrum Analyzer	R&S	FSVA40	101455	2017/11/27
Pre-Amplifier	DEKRA	AP-025C	CHM-0706049	2017/12/18
Bilog Antenna	Schaffner	CBL6112B	2797	2017/08/14
Pre-Amplifier	EMCI	EMC0031835	980233	2017/01/26
Horn Antenna	Schwarzbeck	BBHA 9120	D639	2017/06/29

Note: 1. All equipments that need to be calibrated are with calibration period of 1 year.

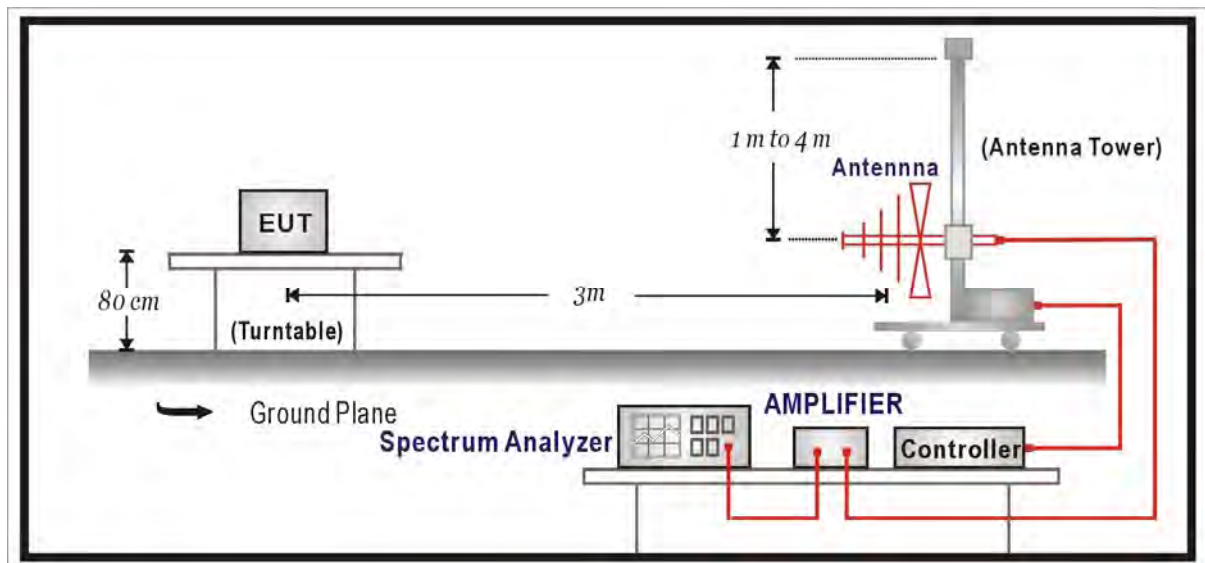
2. EIRP = Substitution Level + Substitution Antenna Gain - Cable Loss.

6.2. Test Setup

Conducted Spurious Measurement:



Radiated Spurious Measurement:



6.3. Limit

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

6.4. Test Procedure

Conducted Spurious Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and BASE STATION SIMULATOR by a Directional Couple.
- EUT Communicate with BASE STATION SIMULATOR then selects a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

- The measurement is divided into the Preliminary Measurement and the Final Measurement. The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The worst radiated emission is measured on the Final Measurement.

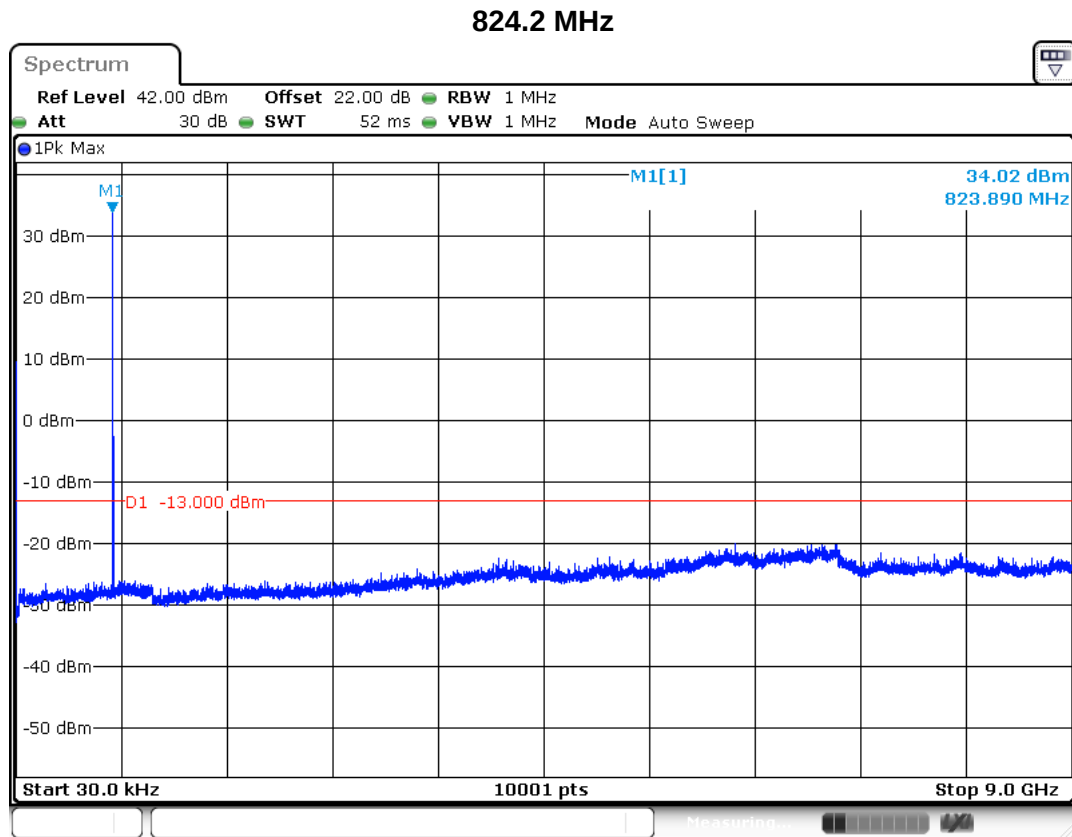
- b) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- c) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- d) The output of the test antenna shall be connected to the measuring receiver.
- e) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- f) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- g) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- h) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- i) The maximum signal level detected by the measuring receiver shall be noted.
- j) The transmitter shall be replaced by a substitution antenna.
- k) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- l) The substitution antenna shall be connected to a calibrated signal generator.
- m) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- n) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- o) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- p) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- q) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- r) The frequency range was checked up to 10th harmonic.

6.5. Uncertainty

The measurement uncertainty is defined as for Conducted Power Measurement ± 1.2 dB, for Radiated Power Measurement ± 3.2 dB

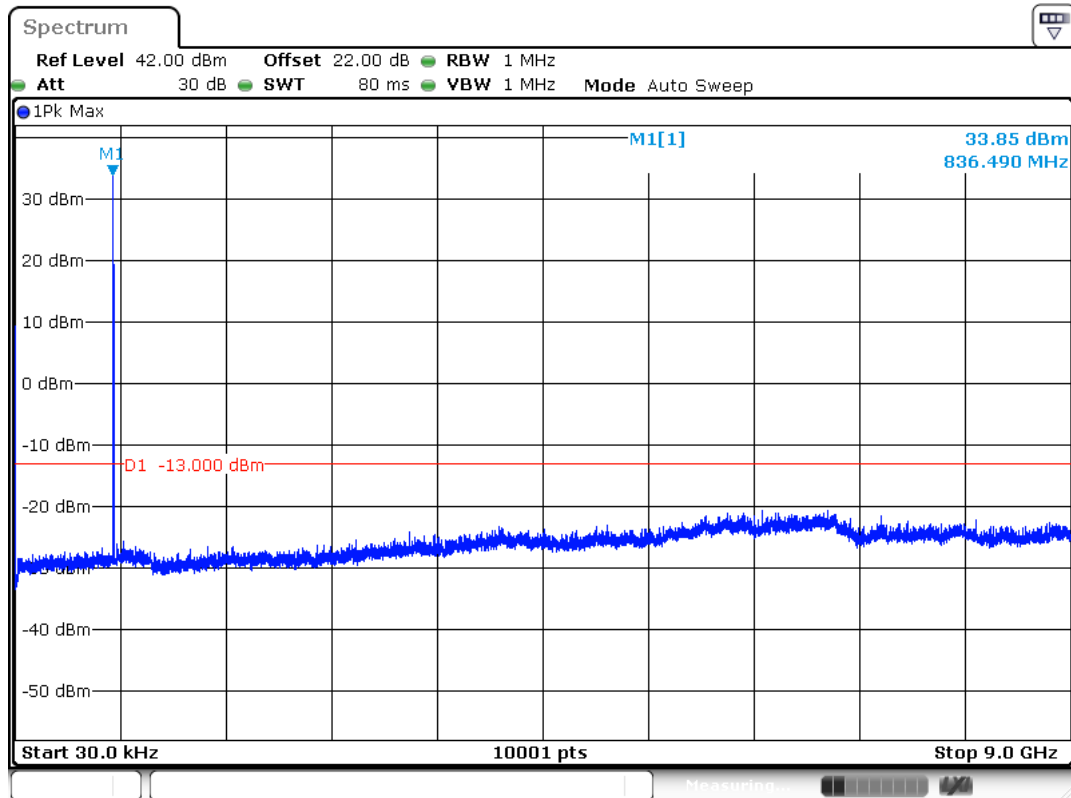
6.6. Test Result Conducted Test

Product	Module		
Test Item	Spurious Emission		
Test Mode	Mode 1: GSM 850_Link Mode		
Date of Test	2016/12/08	Test Site	CB4-H



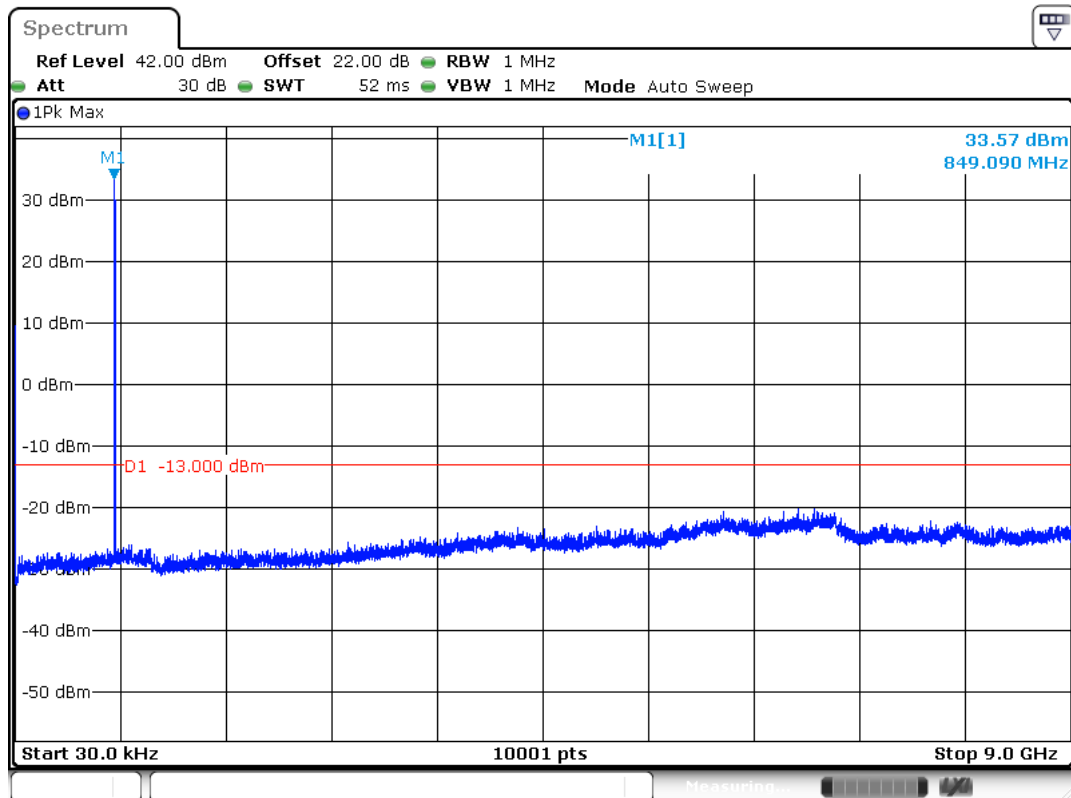
Date: 8 DEC 2016 15:15:17

836.6 MHz



Date: 8 DEC 2016 17:02:48

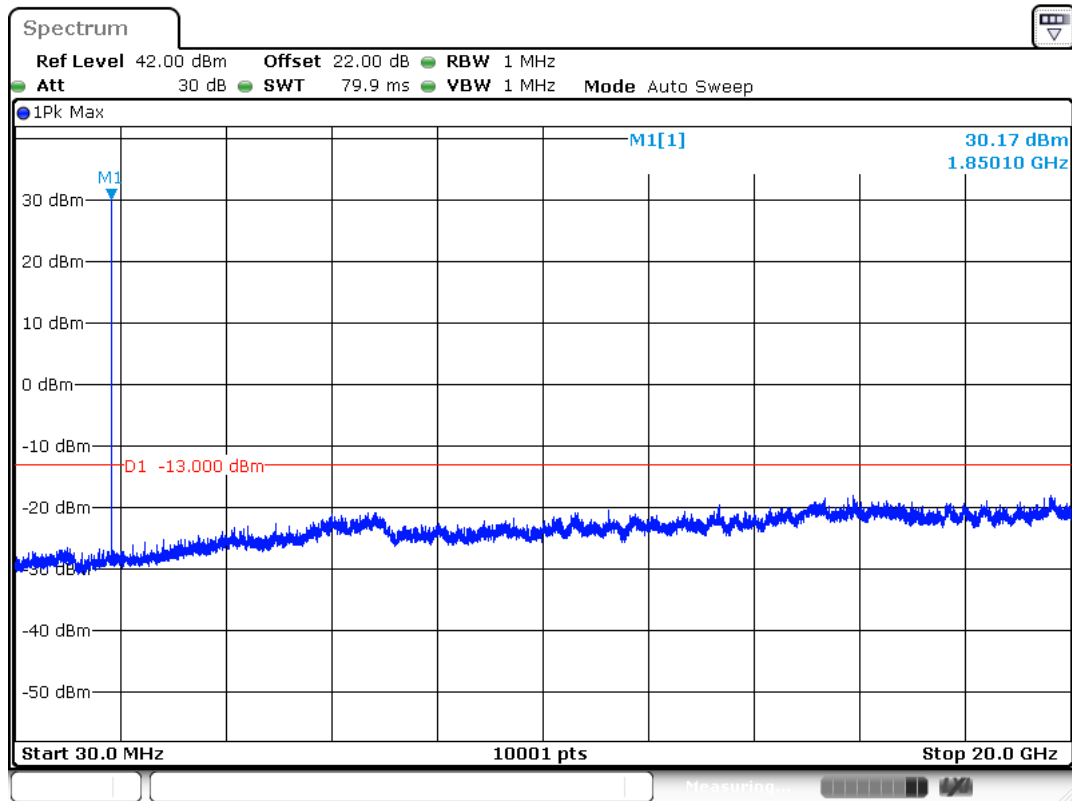
848.8 MHz



Date: 8 DEC 2016 15:18:12

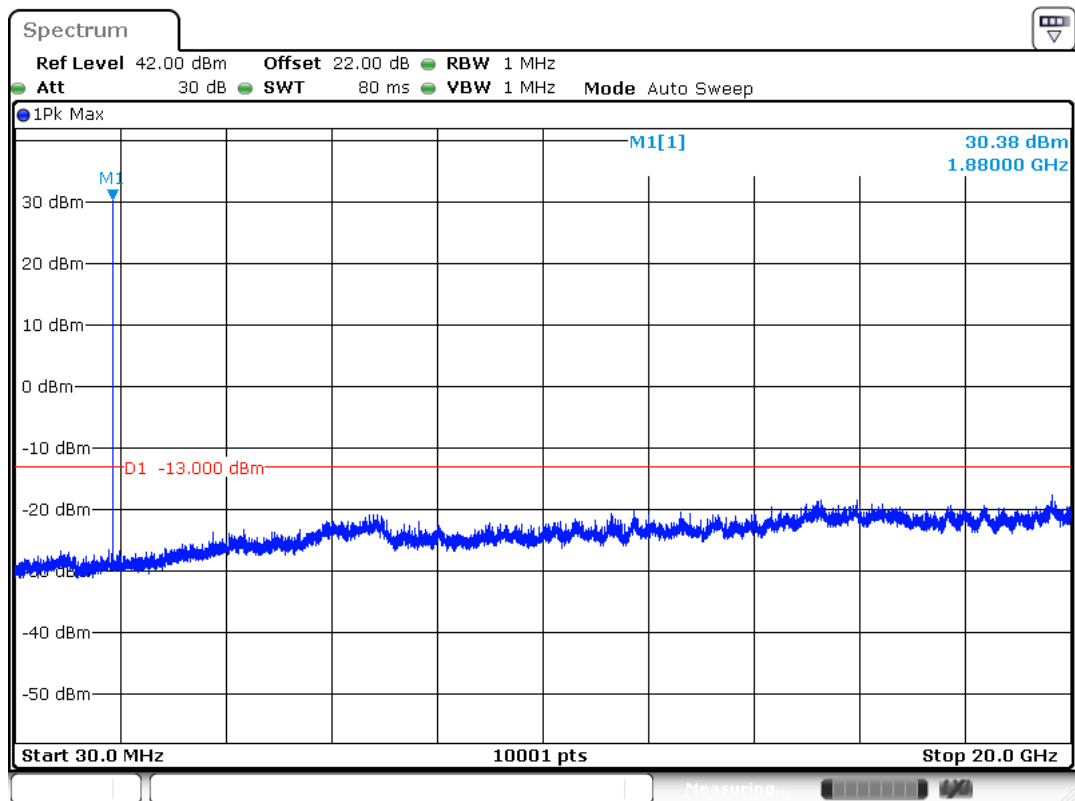
Product	Module		
Test Item	Spurious Emission		
Test Mode	Mode 3: DCS 1900_Link Mode		
Date of Test	2016/12/08	Test Site	CB4-H

1850.2 MHz



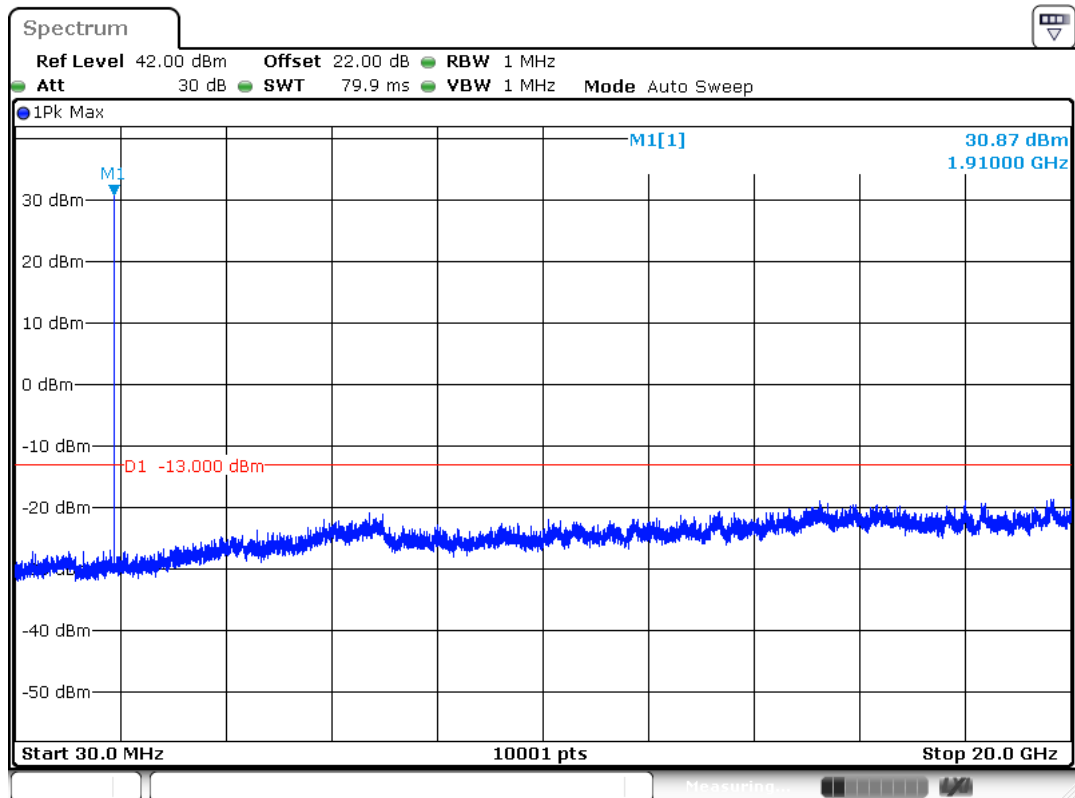
Date: 8 DEC 2016 15:20:48

1880.0 MHz



Date: 8 DEC 2016 16:59:12

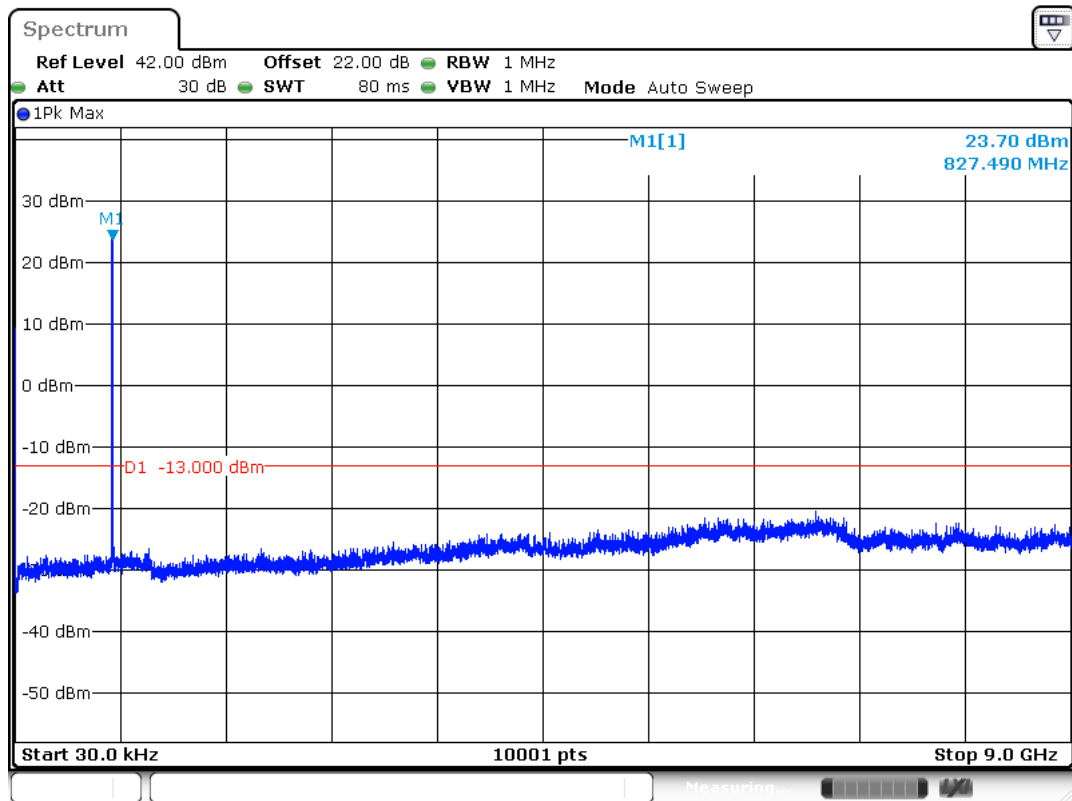
1909.8 MHz



Date: 8 DEC 2016 15:22:24

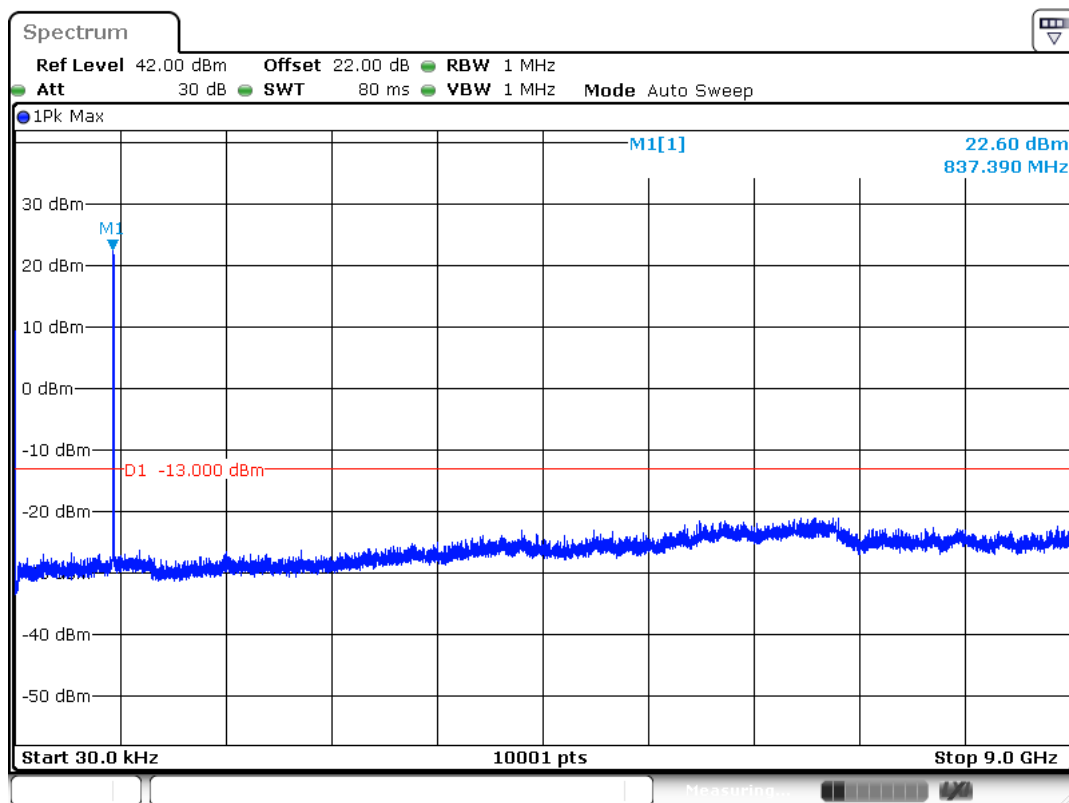
Product	Module		
Test Item	Spurious Emission		
Test Mode	Mode 5: WCDMA Band 5_Link Mode		
Date of Test	2016/12/08	Test Site	CB4-H

826.4 MHz



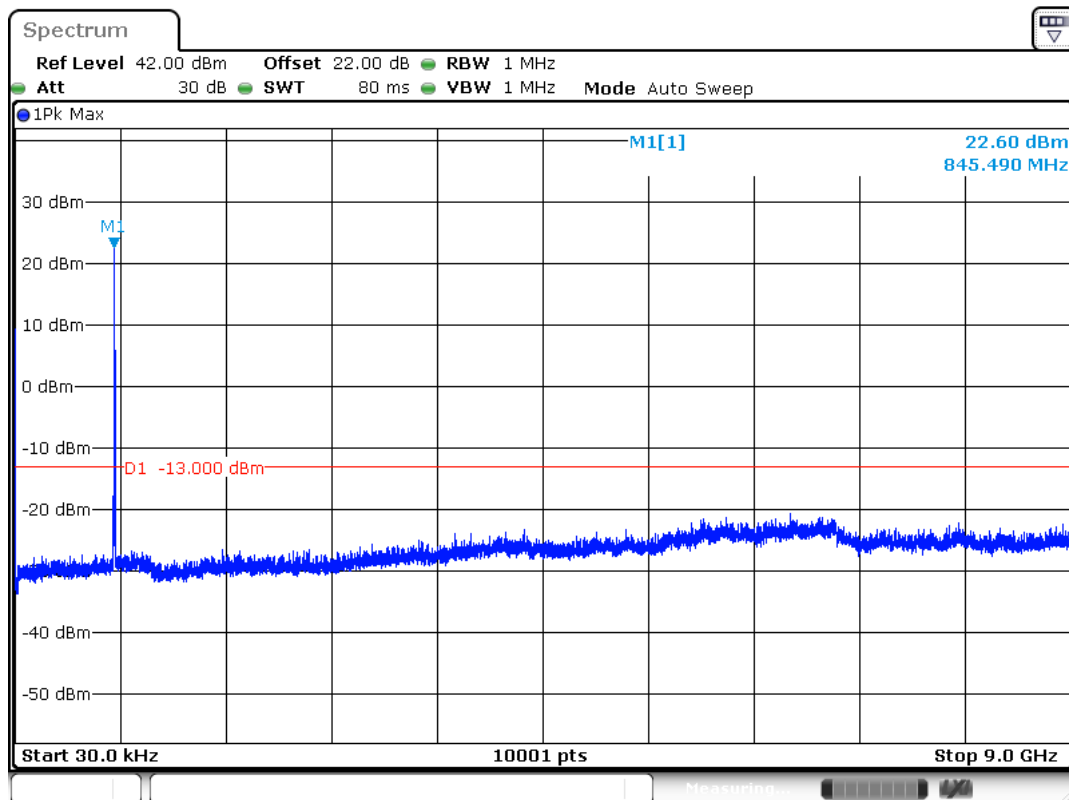
Date: 8 DEC 2016 15:35:20

836.6 MHz



Date: 8 DEC 2016 16:54:54

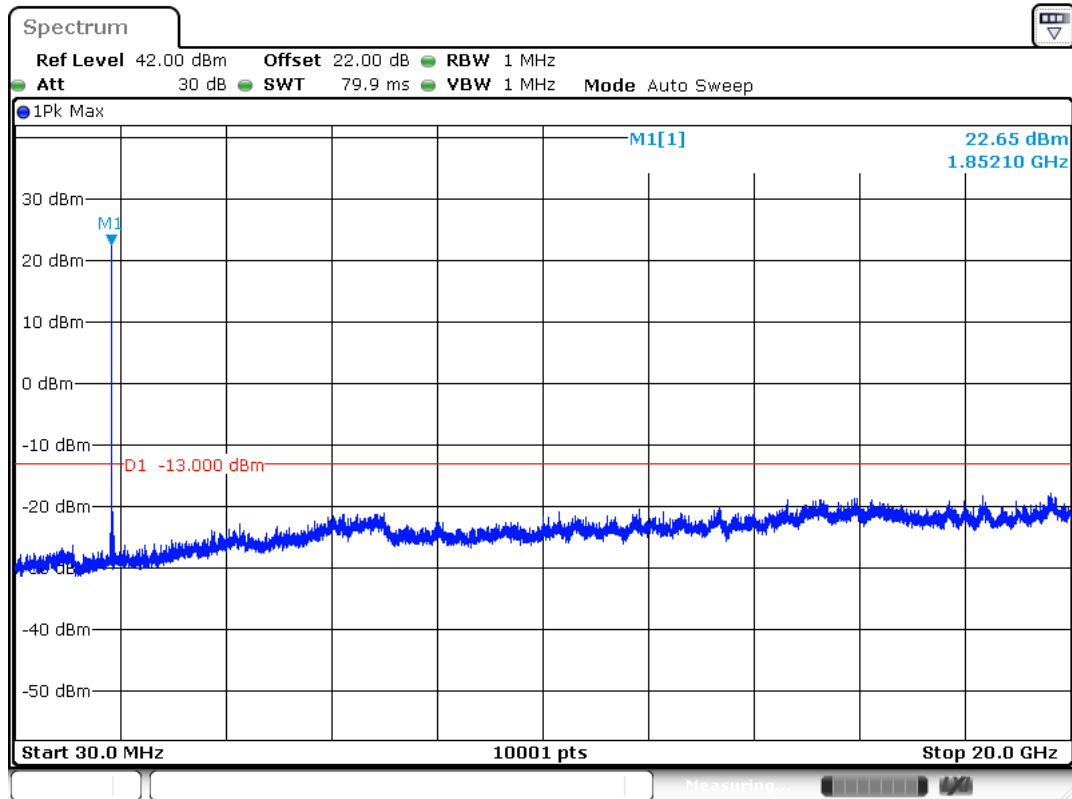
846.6 MHz



Date: 8 DEC 2016 15:37:54

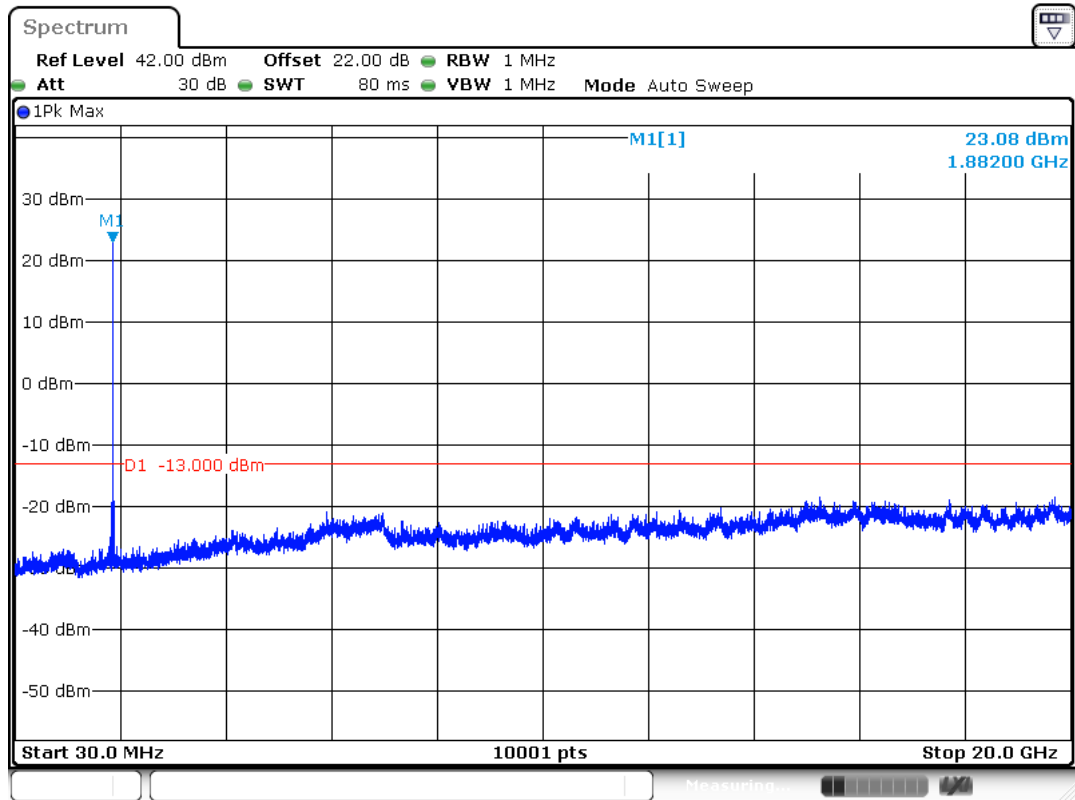
Product	Module		
Test Item	Spurious Emission		
Test Mode	Mode 7: WCDMA Band 2_Link Mode		
Date of Test	2016/12/08	Test Site	CB4-H

1852.4 MHz



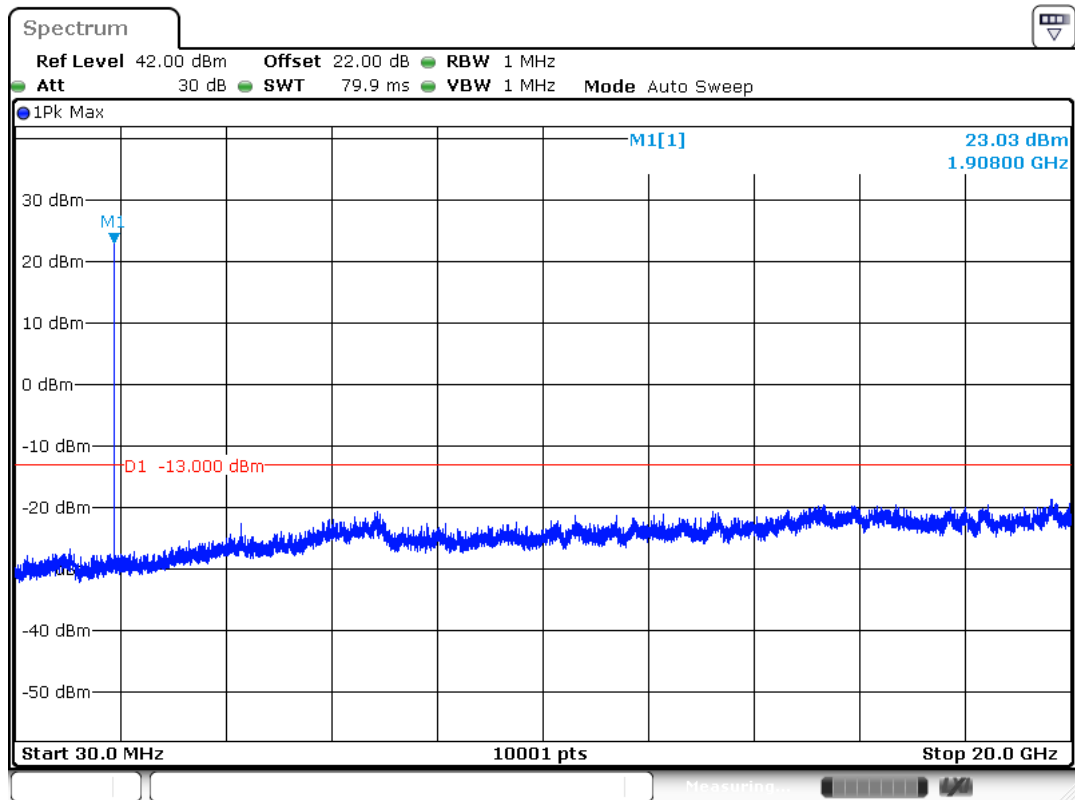
Date: 8 DEC 2016 15:27:56

1880.0 MHz



Date: 8 DEC 2016 16:56:16

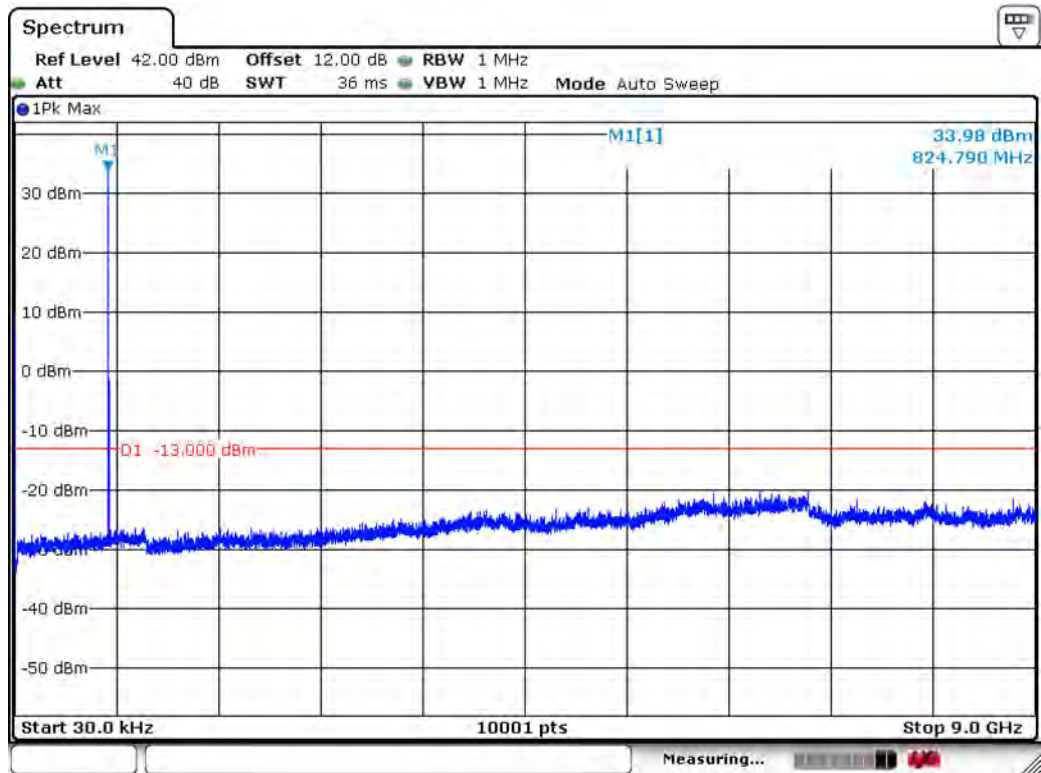
1909.8 MHz



Date: 8 DEC 2016 15:28:54

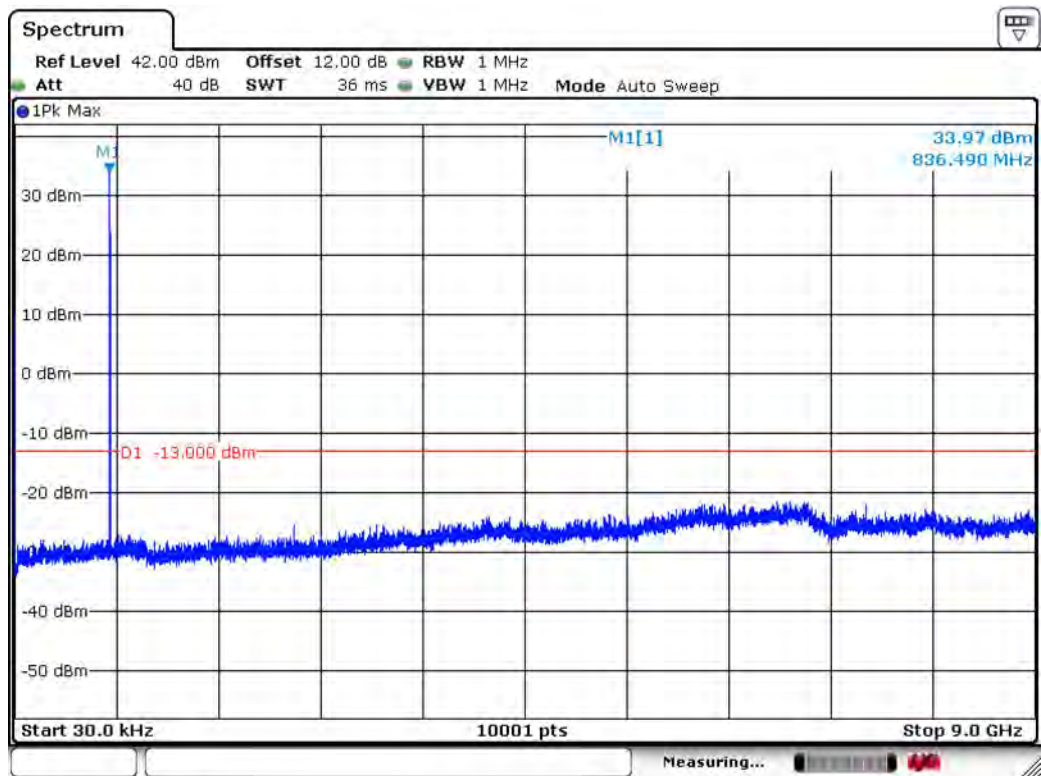
Product	Module		
Test Item	Spurious Emission		
Test Mode	Mode 9: GSM_EGPRS 850_Link Mode		
Date of Test	2017/01/17	Test Site	CB4-H

824.2 MHz



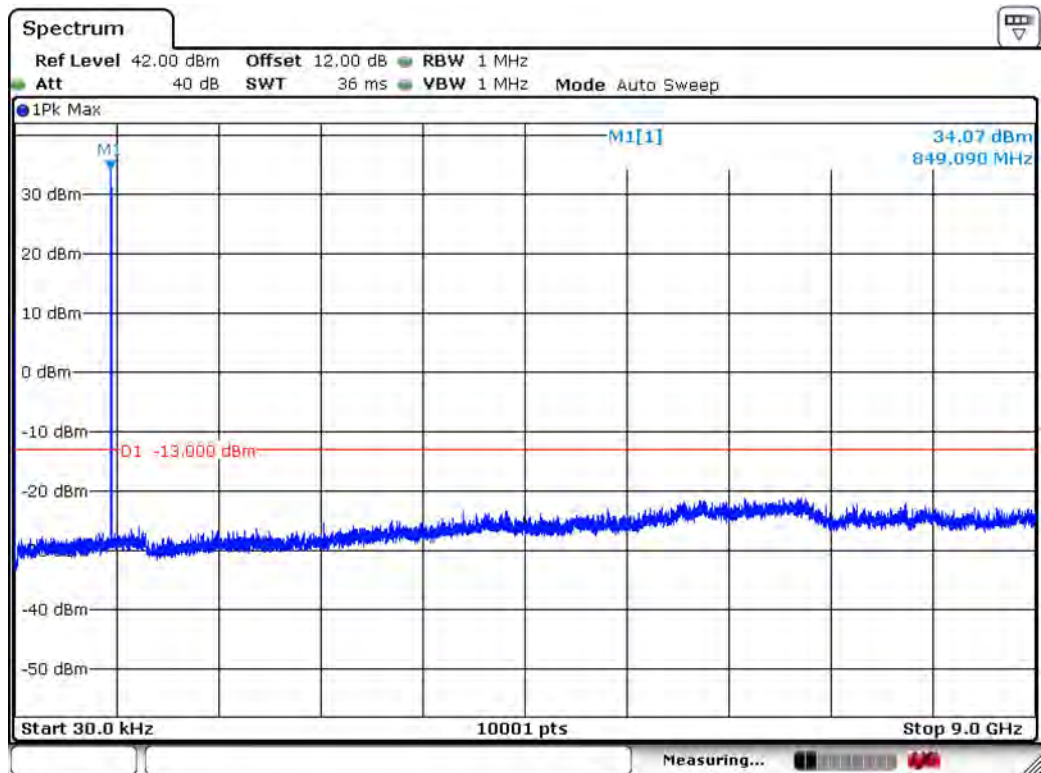
Date: 17.JAN.2017 17:02:08

836.6 MHz



Date: 17.JAN.2017 17:03:30

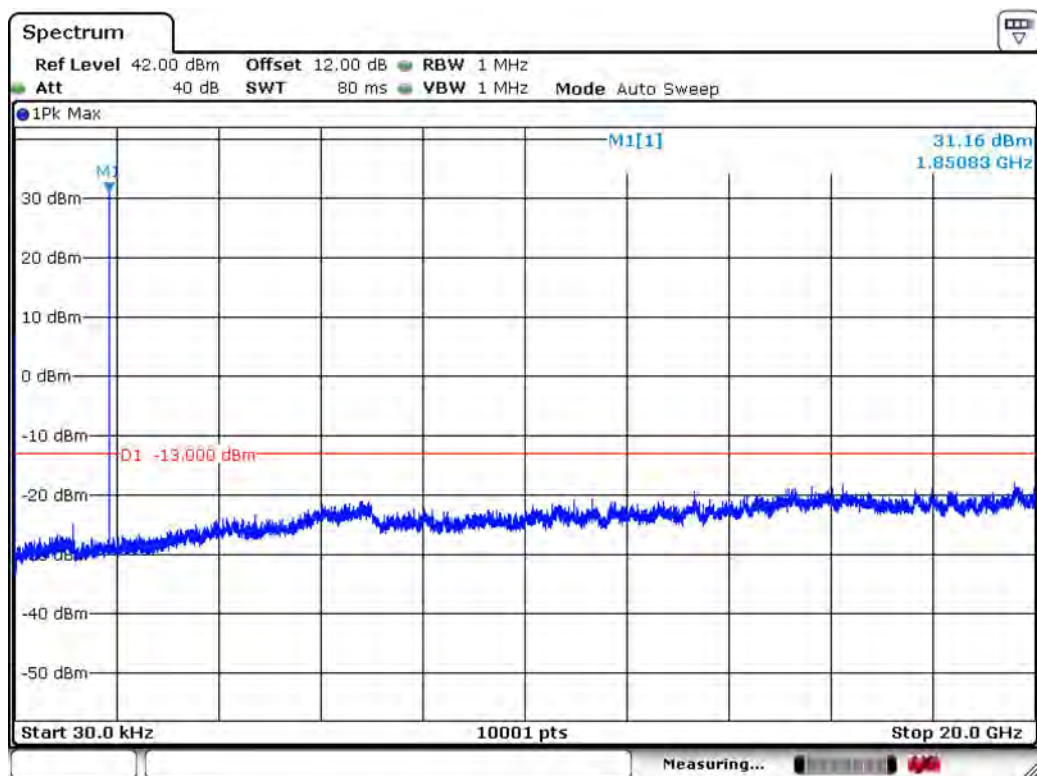
848.8 MHz



Date: 17.JAN.2017 17:04:41

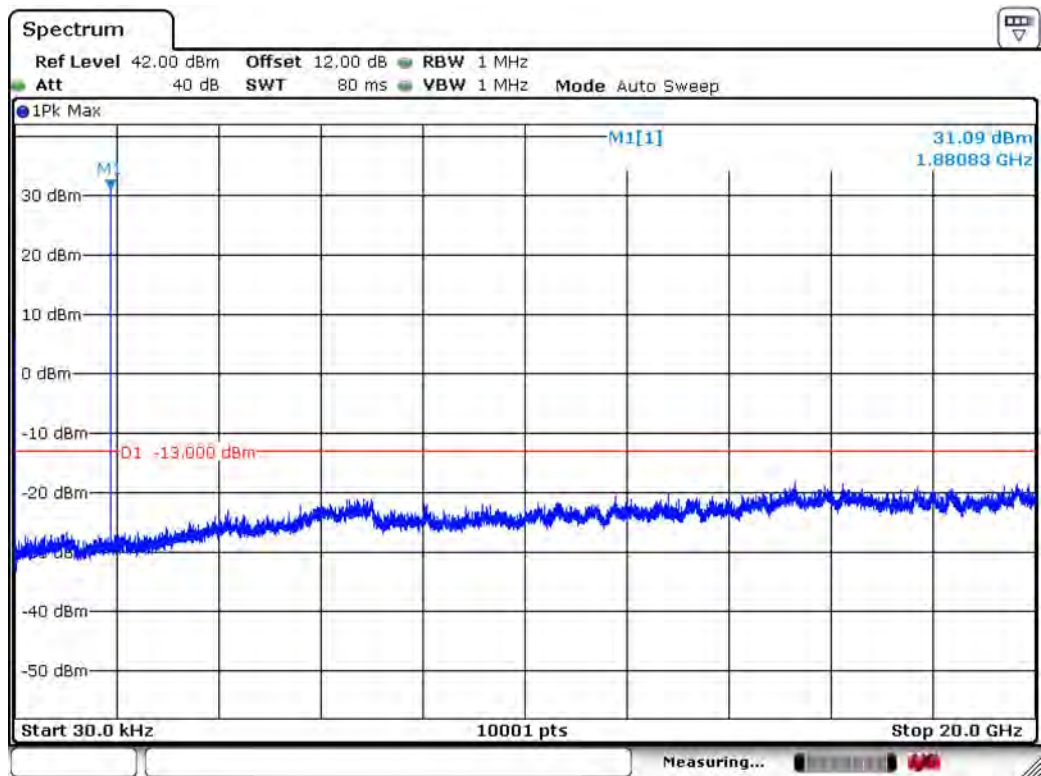
Product	Module		
Test Item	Spurious Emission		
Test Mode	Mode 11: DCS_EGPRS 1900_Link Mode		
Date of Test	2017/01/17	Test Site	CB4-H

1850.2 MHz



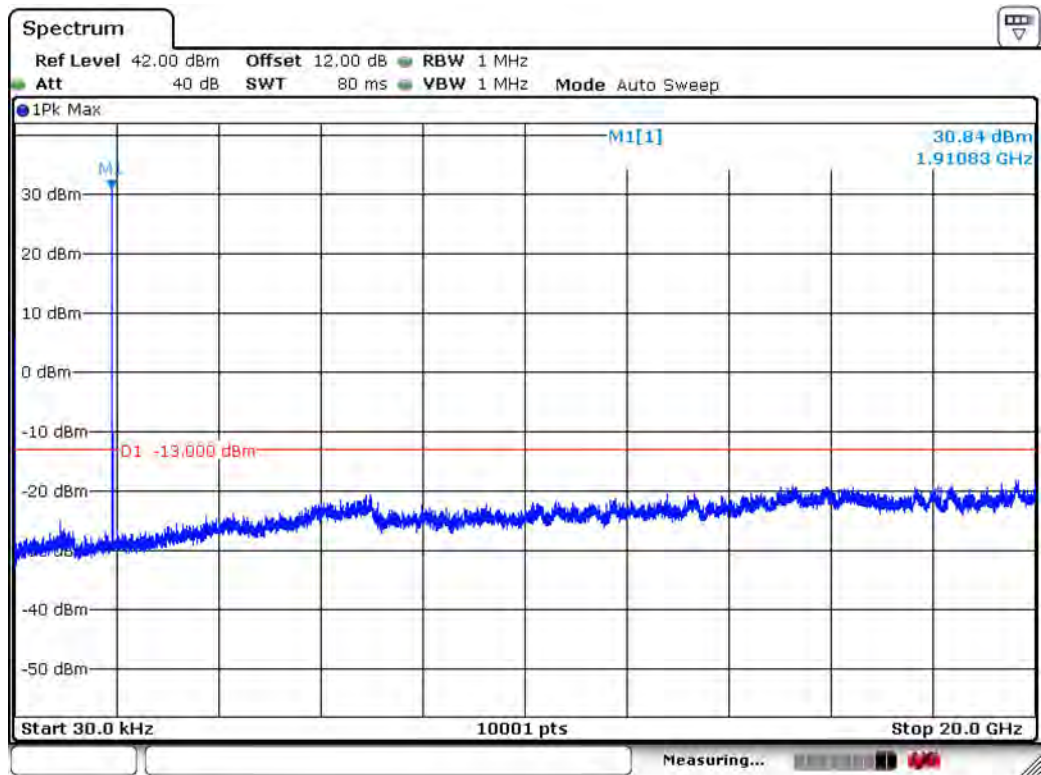
Date: 17.JAN.2017 17:06:49

1880.0 MHz



Date: 17.JAN.2017 17:08:23

1909.8 MHz

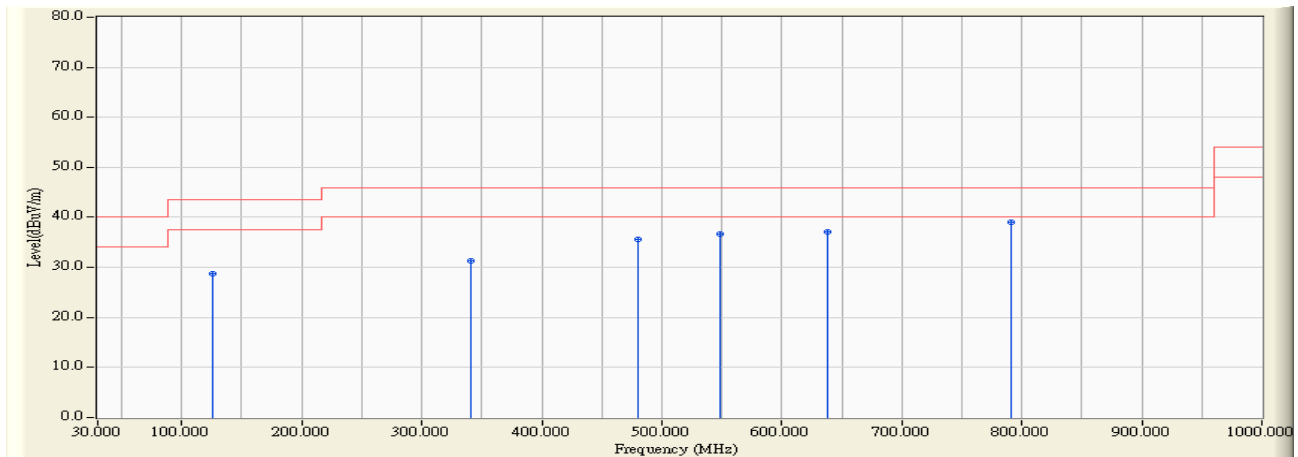


Date: 17.JAN.2017 17:09:44

Radiated Test

30MHz-1GHz Spurious

Site : CB4-H	Time : 2016/11/22 - 18:36
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 1: GSM 850_Link Mode_CH:189

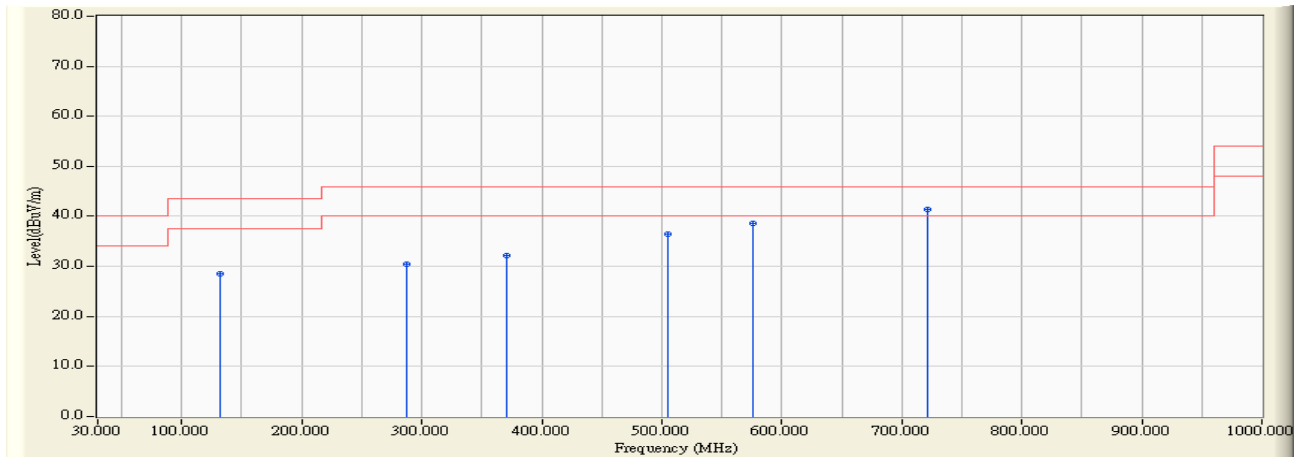


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		125.545	20.744	7.929	28.673	-14.827	43.500	QUASIPeAK
2		341.370	23.753	7.568	31.321	-14.679	46.000	QUASIPeAK
3		480.080	27.052	8.478	35.530	-10.470	46.000	QUASIPeAK
4		547.980	27.977	8.778	36.754	-9.246	46.000	QUASIPeAK
5		638.190	28.957	8.223	37.180	-8.820	46.000	QUASIPeAK
6	*	791.450	30.596	8.419	39.015	-6.985	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:33
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 1: GSM 850_Link Mode_CH:189

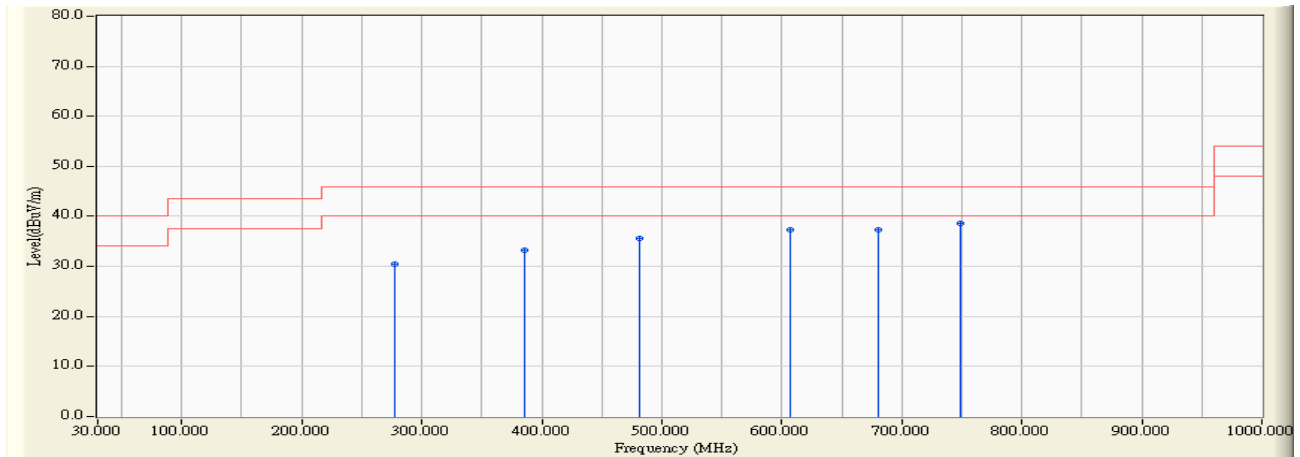


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		131.850	20.592	7.958	28.550	-14.950	43.500	QUASIPeAK
2		287.535	22.193	8.348	30.540	-15.460	46.000	QUASIPeAK
3		370.955	24.699	7.521	32.220	-13.780	46.000	QUASIPeAK
4		504.815	27.453	9.092	36.546	-9.454	46.000	QUASIPeAK
5		576.110	28.315	10.238	38.553	-7.447	46.000	QUASIPeAK
6	*	721.125	29.771	11.598	41.369	-4.631	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:39
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 2: GSM 850_Idle Mode_CH:189

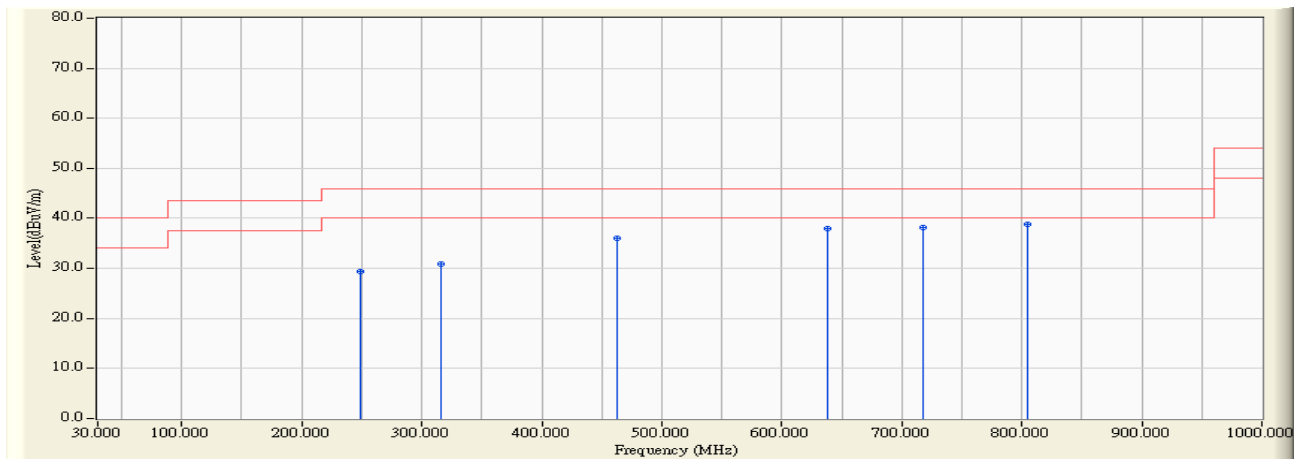


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		276.865	21.997	8.502	30.499	-15.501	46.000	QUASIPeAK
2		385.990	25.179	8.014	33.193	-12.807	46.000	QUASIPeAK
3		481.535	27.078	8.435	35.512	-10.488	46.000	QUASIPeAK
4		607.150	28.667	8.673	37.340	-8.660	46.000	QUASIPeAK
5		680.870	29.351	8.025	37.376	-8.624	46.000	QUASIPeAK
6	*	749.255	30.087	8.533	38.620	-7.380	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:44
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 2: GSM 850_Idle Mode_CH:189

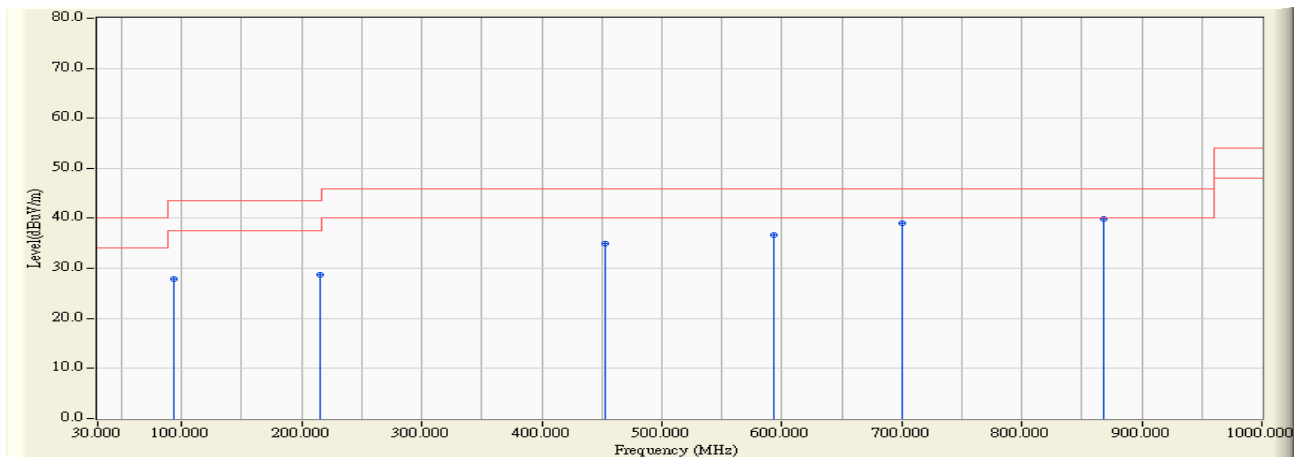


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		248.250	21.408	7.941	29.349	-16.651	46.000	QUASIPeak
2		315.665	22.925	8.016	30.941	-15.059	46.000	QUASIPeak
3		462.620	26.752	9.321	36.073	-9.927	46.000	QUASIPeak
4		637.705	28.952	9.001	37.953	-8.047	46.000	QUASIPeak
5		718.215	29.739	8.351	38.090	-7.910	46.000	QUASIPeak
6	*	804.545	30.750	8.148	38.897	-7.103	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:56
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 3: DCS 1900_Link Mode_ CH:661

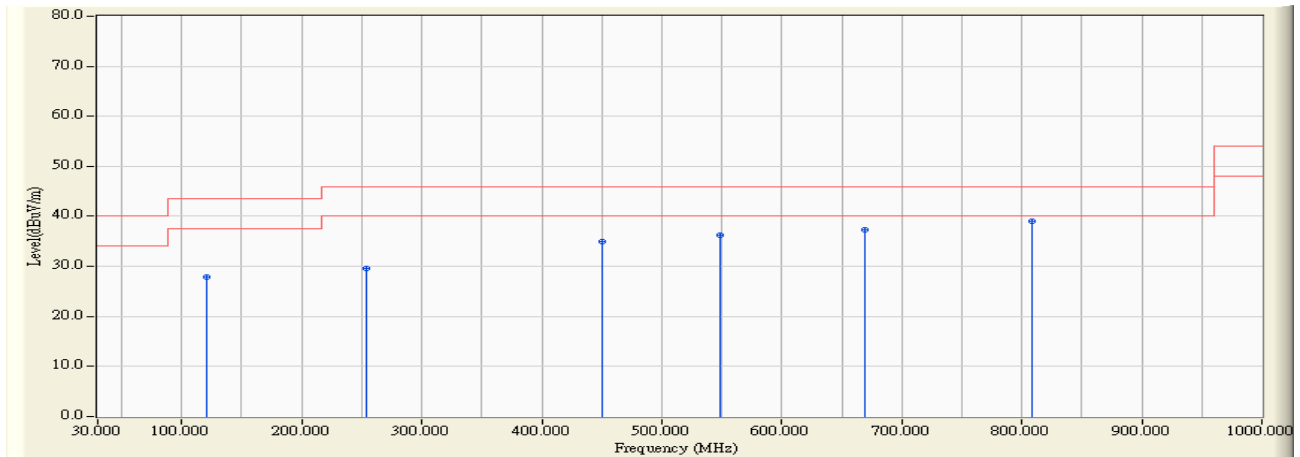


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		93.535	17.370	10.528	27.897	-15.603	43.500	QUASIPeAK
2		215.270	19.512	9.211	28.723	-14.777	43.500	QUASIPeAK
3		452.435	26.577	8.458	35.035	-10.965	46.000	QUASIPeAK
4		593.085	28.519	8.192	36.711	-9.289	46.000	QUASIPeAK
5		700.270	29.530	9.457	38.988	-7.012	46.000	QUASIPeAK
6	*	868.565	31.484	8.314	39.798	-6.202	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:52
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 3: DCS 1900_Link Mode_ CH:661

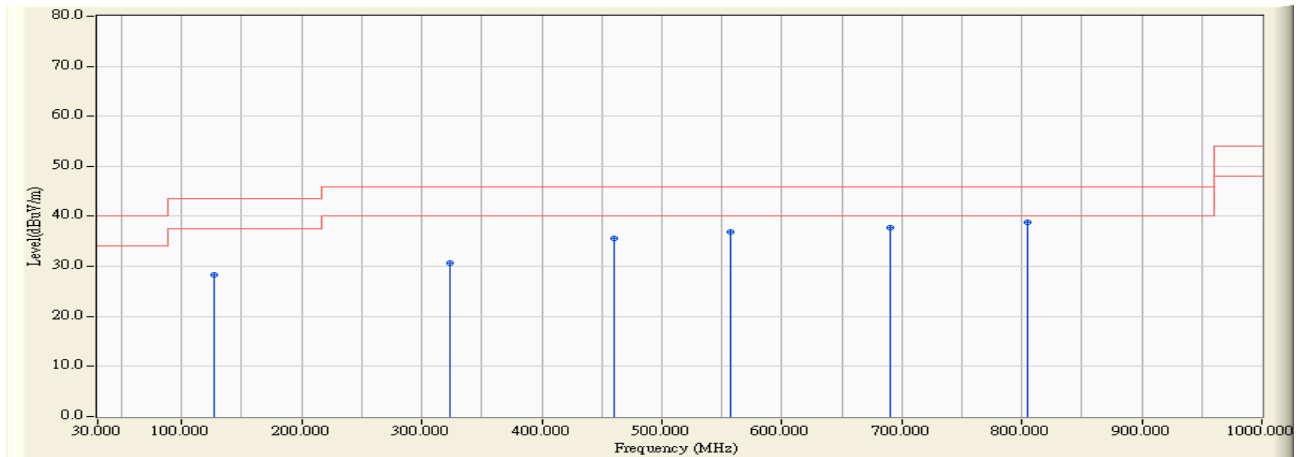


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		120.210	20.873	7.099	27.972	-15.528	43.500	QUASIPeAK
2		254.070	21.581	8.102	29.683	-16.317	46.000	QUASIPeAK
3		450.010	26.535	8.472	35.007	-10.993	46.000	QUASIPeAK
4		548.950	27.988	8.203	36.191	-9.809	46.000	QUASIPeAK
5		668.745	29.240	7.982	37.222	-8.778	46.000	QUASIPeAK
6	*	808.425	30.794	8.173	38.967	-7.033	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:59
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 4: DCS 1900_Idle Mode_ CH:661

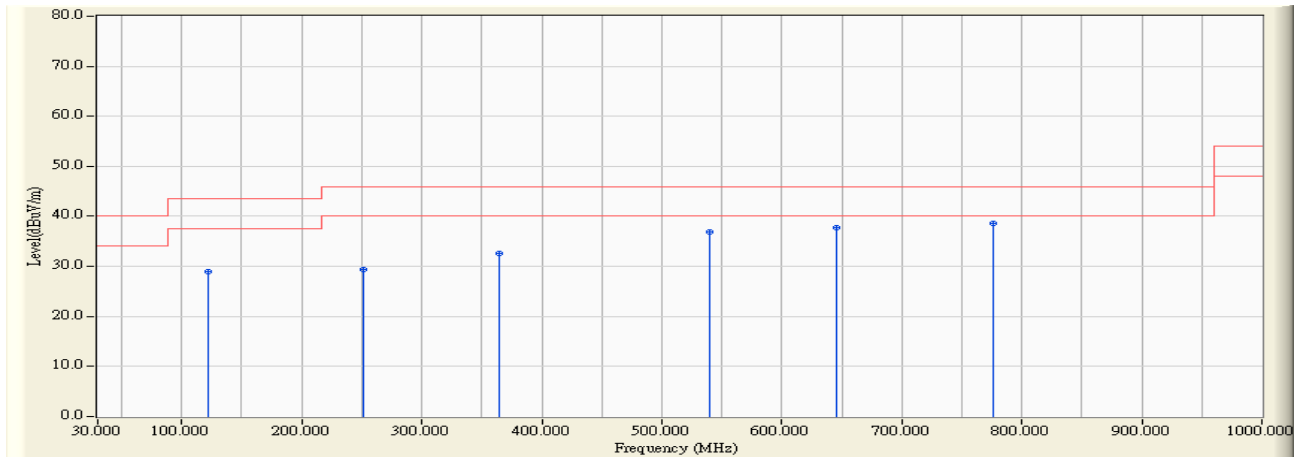


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		127.485	20.697	7.668	28.365	-15.135	43.500	QUASIPeAK
2		323.425	23.175	7.423	30.598	-15.402	46.000	QUASIPeAK
3		460.680	26.719	8.824	35.543	-10.457	46.000	QUASIPeAK
4		557.195	28.088	8.899	36.986	-9.014	46.000	QUASIPeAK
5		690.085	29.436	8.385	37.821	-8.179	46.000	QUASIPeAK
6	*	804.545	30.750	8.119	38.868	-7.132	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 19:05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 4: DCS 1900_Idle Mode_ CH:661

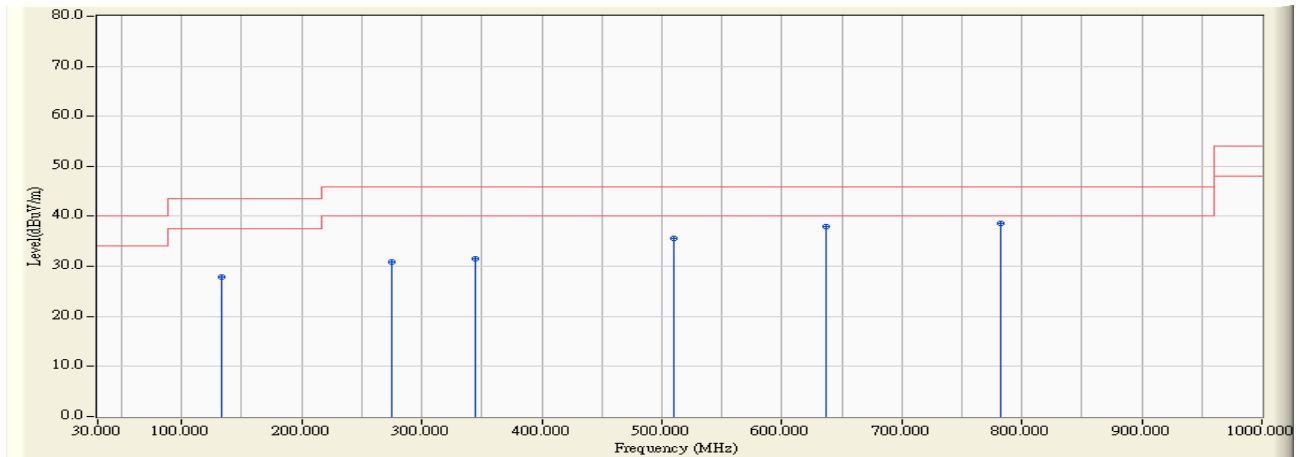


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		122.150	20.825	8.094	28.920	-14.580	43.500	QUASIPeak
2		251.160	21.528	7.912	29.440	-16.560	46.000	QUASIPeak
3		365.135	24.514	7.989	32.503	-13.497	46.000	QUASIPeak
4		539.250	27.870	8.936	36.807	-9.193	46.000	QUASIPeak
5		645.950	29.029	8.650	37.679	-8.321	46.000	QUASIPeak
6	*	775.930	30.407	8.173	38.581	-7.419	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:05
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 5: WCDMA Band 5_Link Mode_ CH:4408

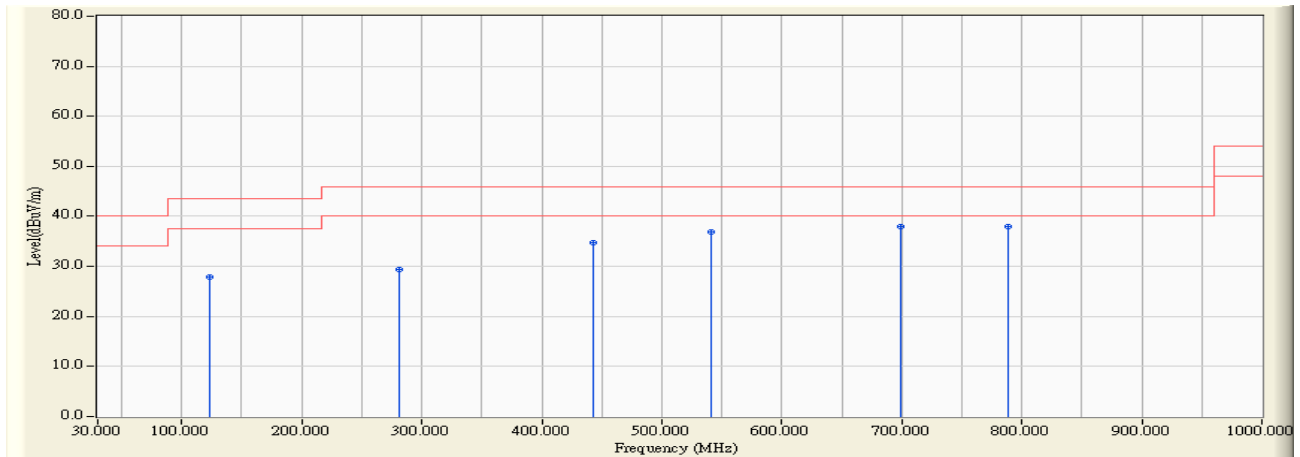


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		133.305	20.557	7.332	27.889	-15.611	43.500	QUASIPeak
2		275.410	21.971	8.956	30.927	-15.073	46.000	QUASIPeak
3		344.765	23.862	7.690	31.553	-14.447	46.000	QUASIPeak
4		510.635	27.524	7.984	35.508	-10.492	46.000	QUASIPeak
5		636.250	28.938	8.934	37.873	-8.127	46.000	QUASIPeak
6	*	782.235	30.484	8.038	38.522	-7.478	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:00
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 5: WCDMA Band 5_Link Mode_ CH:4408

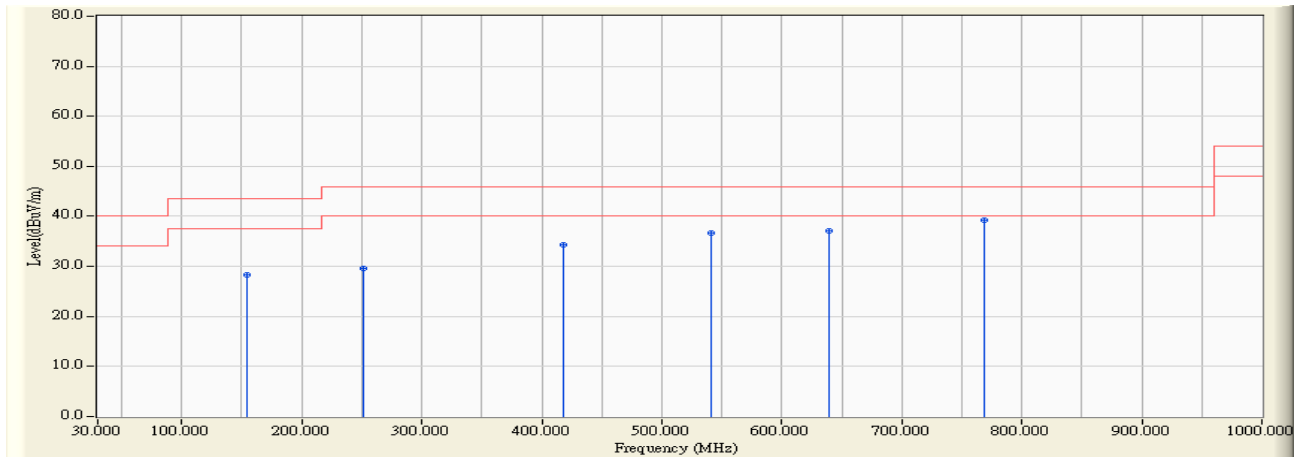


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		123.120	20.802	7.081	27.883	-15.617	43.500	QUASIPeAK
2		280.745	22.068	7.368	29.436	-16.564	46.000	QUASIPeAK
3		443.220	26.413	8.299	34.712	-11.288	46.000	QUASIPeAK
4		540.705	27.888	9.026	36.914	-9.086	46.000	QUASIPeAK
5		698.815	29.516	8.383	37.899	-8.101	46.000	QUASIPeAK
6	*	788.055	30.555	7.447	38.002	-7.998	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:11
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 6: WCDMA Band 5_Idle Mode_CH:4408

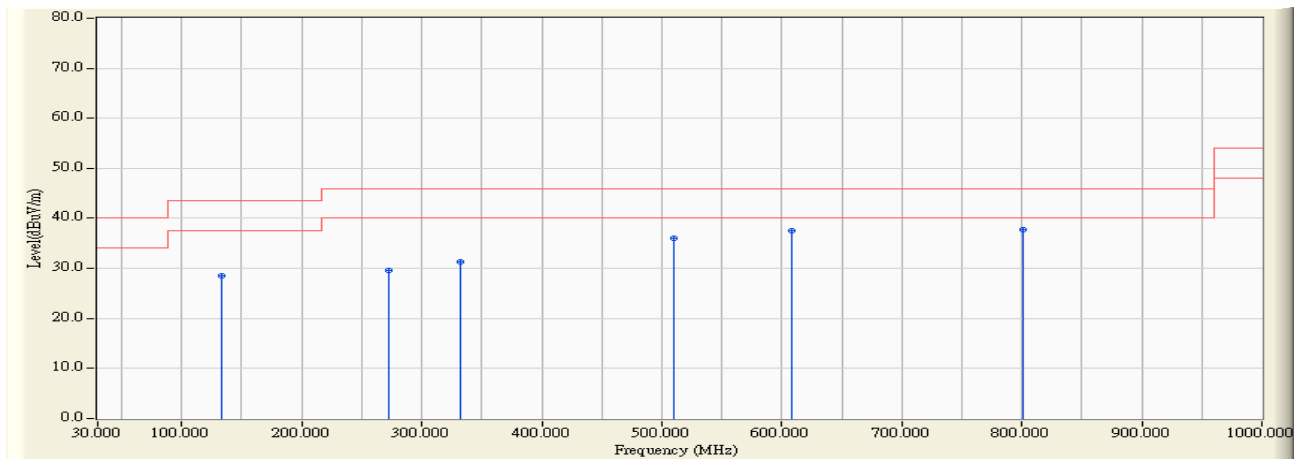


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		154.160	19.558	8.679	28.237	-15.263	43.500	QUASIPeak
2		251.160	21.528	8.026	29.554	-16.446	46.000	QUASIPeak
3		418.000	25.953	8.320	34.273	-11.727	46.000	QUASIPeak
4		540.705	27.888	8.733	36.621	-9.379	46.000	QUASIPeak
5		639.645	28.971	8.060	37.030	-8.970	46.000	QUASIPeak
6	*	768.655	30.320	9.007	39.327	-6.673	46.000	QUASIPeak

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 18:15
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 6: WCDMA Band 5_Idle Mode_ CH:4408

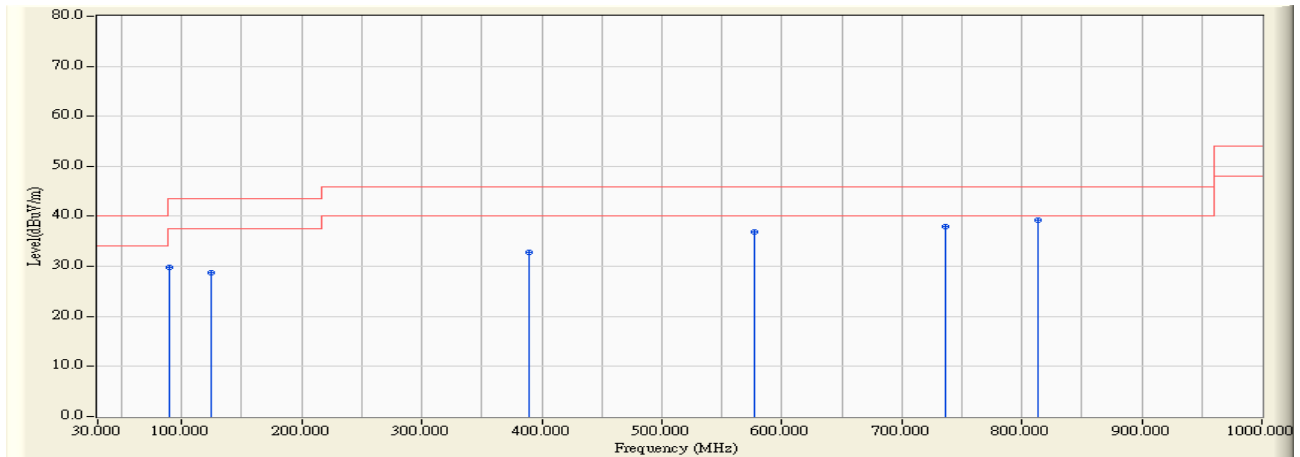


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		133.790	20.545	7.947	28.492	-15.008	43.500	QUASIPeAK
2		272.985	21.927	7.713	29.639	-16.361	46.000	QUASIPeAK
3		332.155	23.456	7.753	31.209	-14.791	46.000	QUASIPeAK
4		510.150	27.518	8.498	36.016	-9.984	46.000	QUASIPeAK
5		608.605	28.681	8.861	37.542	-8.458	46.000	QUASIPeAK
6	*	801.150	30.710	7.043	37.754	-8.246	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 17:14
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 7: WCDMA Band 2_Link Mode_ CH:9800

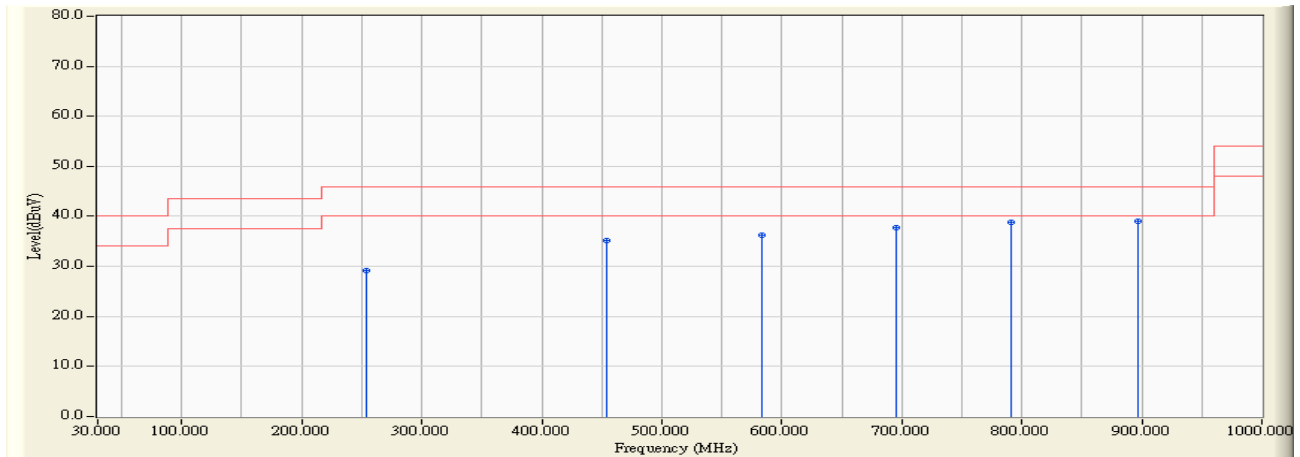


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		90.140	16.586	13.326	29.912	-13.588	43.500	QUASIPeAK
2		125.060	20.755	8.010	28.766	-14.734	43.500	QUASIPeAK
3		389.385	25.288	7.606	32.893	-13.107	46.000	QUASIPeAK
4		577.565	28.332	8.463	36.795	-9.205	46.000	QUASIPeAK
5		736.160	29.940	7.950	37.890	-8.110	46.000	QUASIPeAK
6	*	813.760	30.856	8.499	39.354	-6.646	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 17:08
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 7: WCDMA Band 2_Link Mode_ CH:9800

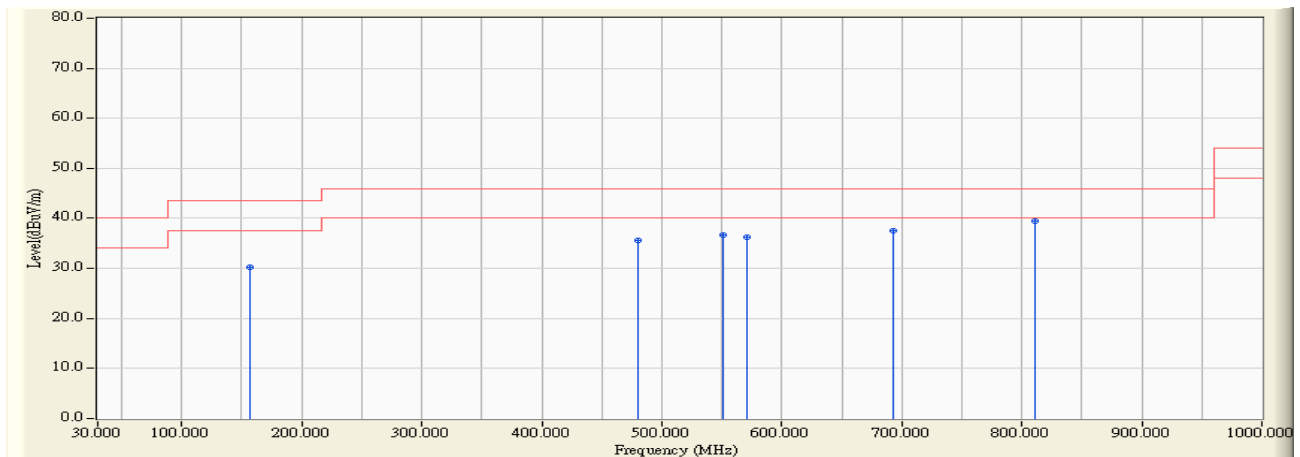


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		254.070	21.581	7.675	29.256	-16.744	46.000	QUASIPeAK
2		454.375	26.610	8.529	35.139	-10.861	46.000	QUASIPeAK
3		583.870	28.408	7.836	36.244	-9.756	46.000	QUASIPeAK
4		694.935	29.481	8.370	37.851	-8.149	46.000	QUASIPeAK
5		790.965	30.590	8.314	38.904	-7.096	46.000	QUASIPeAK
6	*	896.695	31.806	7.140	38.946	-7.054	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 17:19
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 8: WCDMA Band 2_Idle Mode_ CH:9800

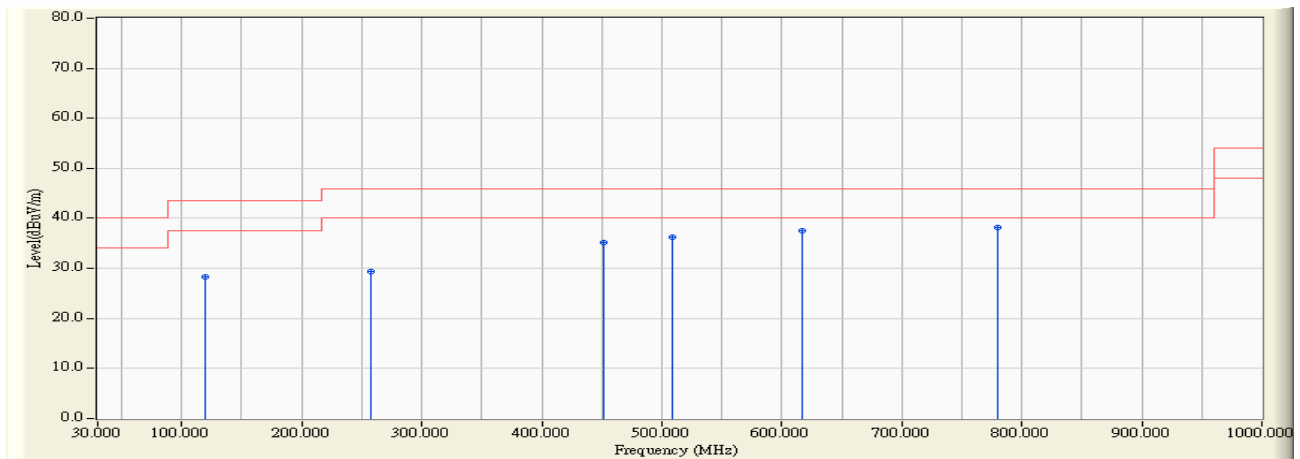


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		156.585	19.414	10.832	30.246	-13.254	43.500	QUASIPeAK
2		480.080	27.052	8.460	35.512	-10.488	46.000	QUASIPeAK
3		550.890	28.012	8.736	36.748	-9.252	46.000	QUASIPeAK
4		570.775	28.251	7.987	36.238	-9.762	46.000	QUASIPeAK
5		692.995	29.463	8.041	37.504	-8.496	46.000	QUASIPeAK
6	*	811.335	30.828	8.636	39.464	-6.536	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2016/11/22 - 17:25
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_30M-1GHz - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 8: WCDMA Band 2_Idle Mode_ CH:9800

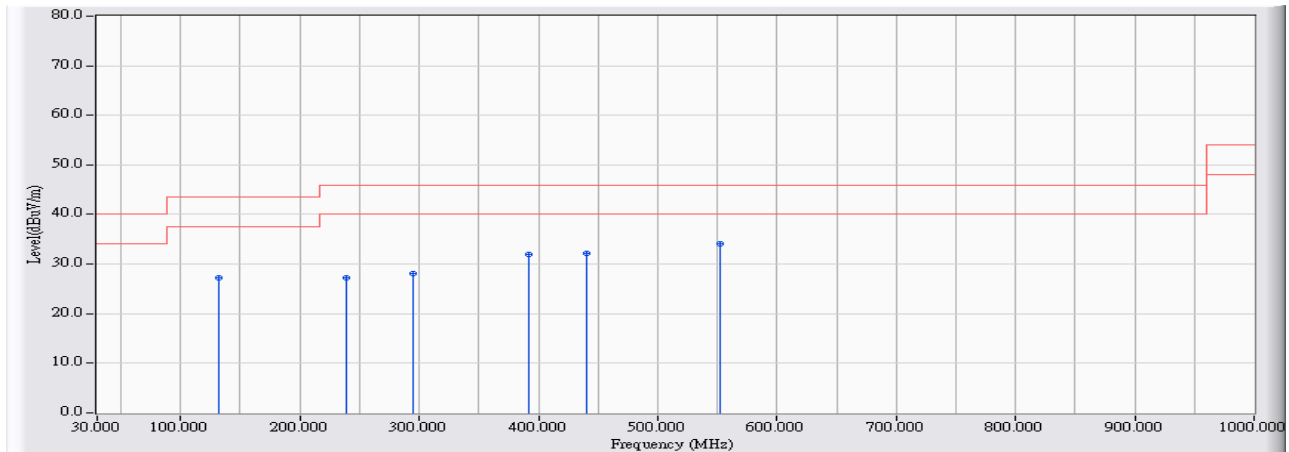


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		119.240	20.801	7.433	28.234	-15.266	43.500	QUASIPeAK
2		256.980	21.634	7.782	29.416	-16.584	46.000	QUASIPeAK
3		451.465	26.560	8.699	35.259	-10.741	46.000	QUASIPeAK
4		508.695	27.500	8.760	36.261	-9.739	46.000	QUASIPeAK
5		616.850	28.758	8.771	37.529	-8.471	46.000	QUASIPeAK
6	*	780.295	30.461	7.810	38.270	-7.730	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/01/17 - 21:54
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_A138_30M-1GHz_1216 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 9: GSM_EGPRS 850_Link Mode_ 836.6

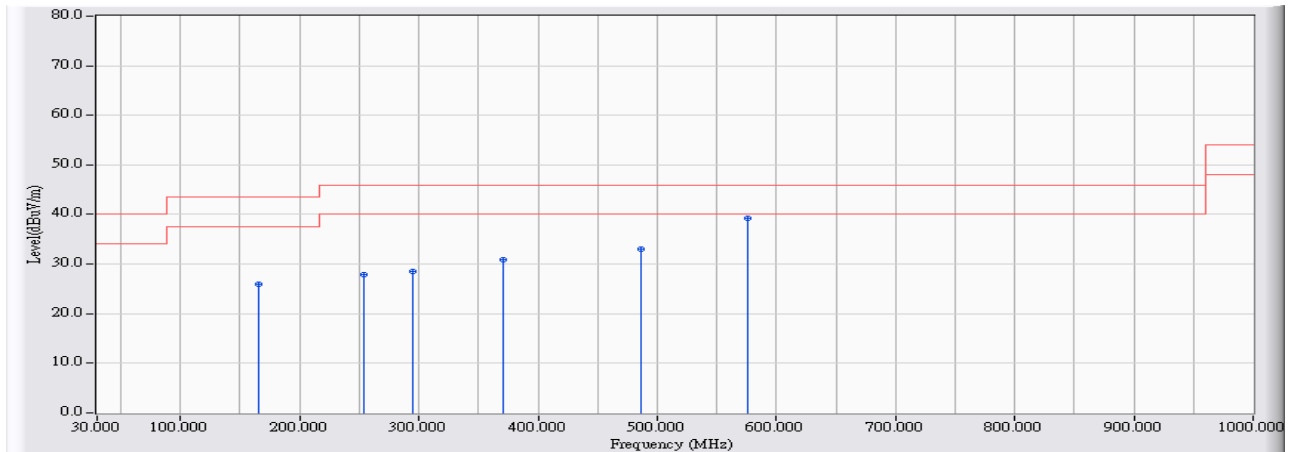


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		131.743	20.576	6.569	27.145	-16.355	43.500	QUASIPeAK
2		239.305	20.777	6.406	27.183	-18.817	46.000	QUASIPeAK
3		294.493	22.169	6.003	28.172	-17.828	46.000	QUASIPeAK
4		391.386	25.112	6.754	31.866	-14.134	46.000	QUASIPeAK
5		440.172	26.023	6.071	32.095	-13.905	46.000	QUASIPeAK
6	*	551.808	27.908	6.296	34.204	-11.796	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/01/17 - 21:58
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_A138_30M-1GHz_1216 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 9: GSM_EGPRS 850_Link Mode_ 836.6

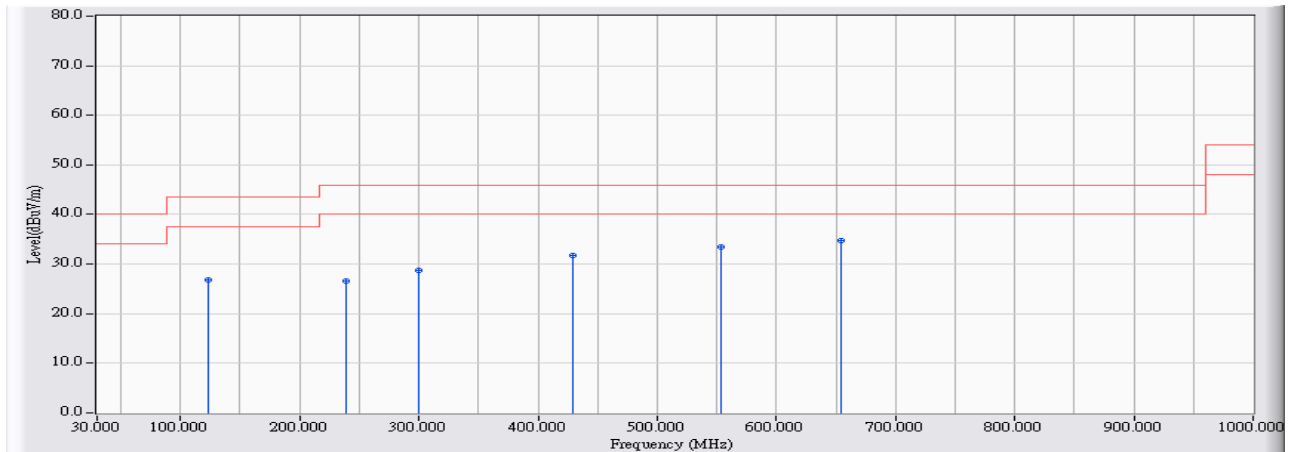


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		165.107	18.888	7.098	25.986	-17.514	43.500	QUASIPeAK
2		254.339	21.442	6.430	27.871	-18.129	46.000	QUASIPeAK
3		294.396	22.168	6.344	28.511	-17.489	46.000	QUASIPeAK
4		371.115	24.490	6.422	30.913	-15.087	46.000	QUASIPeAK
5		486.727	26.798	6.131	32.930	-13.070	46.000	QUASIPeAK
6	*	575.958	27.945	11.248	39.193	-6.807	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/01/17 - 22:12
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_A138_30M-1GHz_1216 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 10: GSM_EGPRS 850_Idle Mode_ 836.6

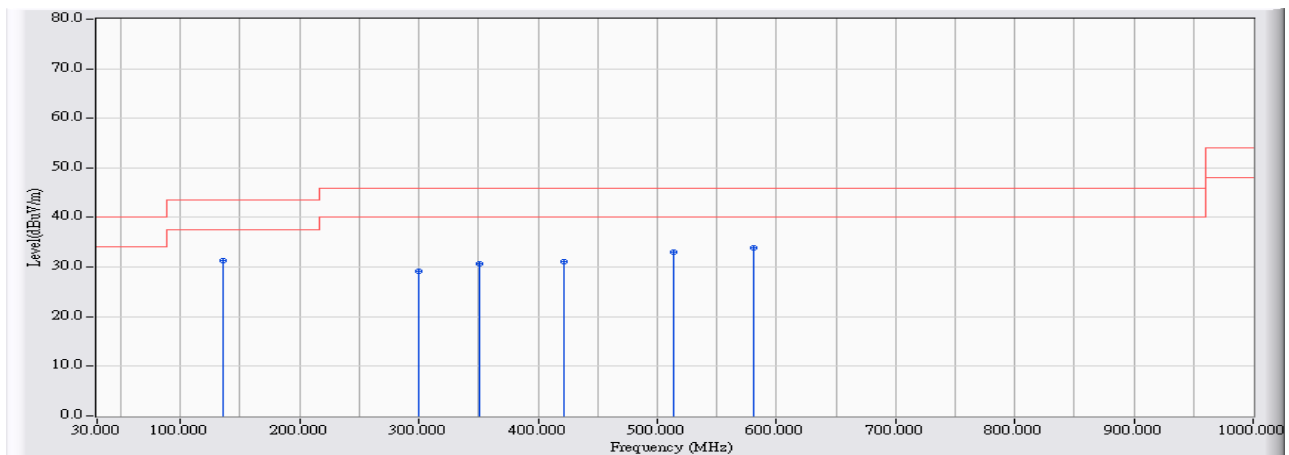


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		123.208	20.788	6.073	26.860	-16.640	43.500	QUASIPeAK
2		238.432	20.727	5.937	26.664	-19.336	46.000	QUASIPeAK
3		299.924	22.284	6.376	28.660	-17.340	46.000	QUASIPeAK
4		429.406	25.864	5.830	31.694	-14.306	46.000	QUASIPeAK
5		553.360	27.883	5.534	33.418	-12.582	46.000	QUASIPeAK
6	*	654.715	28.697	6.046	34.744	-11.256	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/01/17 - 22:14
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_A138_30M-1GHz_1216 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 10: GSM_EGPRS 850_Idle Mode_ 836.6

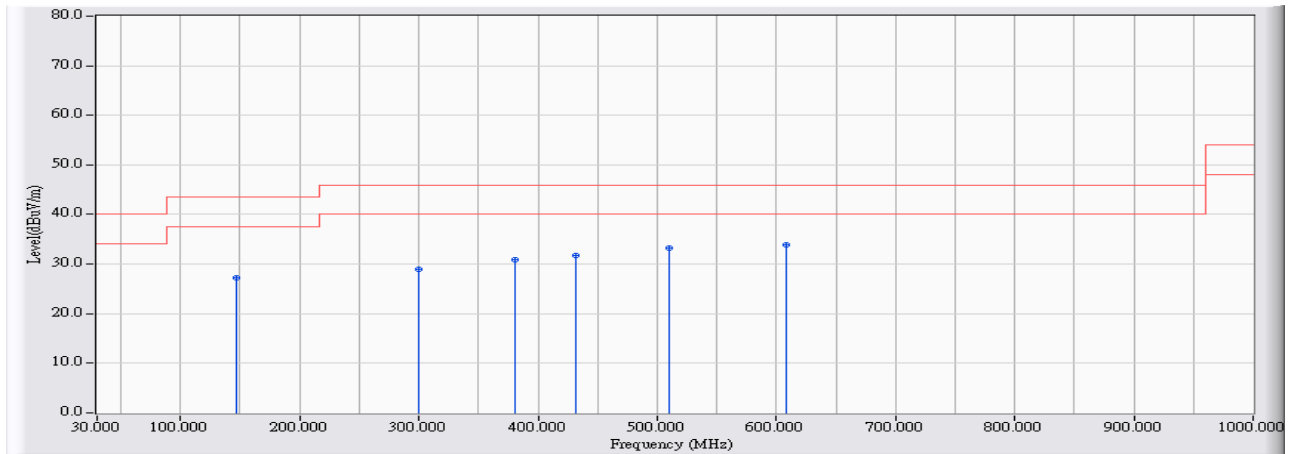


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		135.137	20.513	10.846	31.359	-12.141	43.500	QUASIPeAK
2		300.021	22.287	6.911	29.198	-16.802	46.000	QUASIPeAK
3		350.262	23.807	6.791	30.598	-15.402	46.000	QUASIPeAK
4		422.229	25.737	5.441	31.178	-14.822	46.000	QUASIPeAK
5		514.176	27.285	5.710	32.994	-13.006	46.000	QUASIPeAK
6	*	580.614	27.998	5.863	33.861	-12.139	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/01/17 - 22:08
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_A138_30M-1GHz_1216 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 11: DCS_EGPRS 1900_Link Mode_ 1880

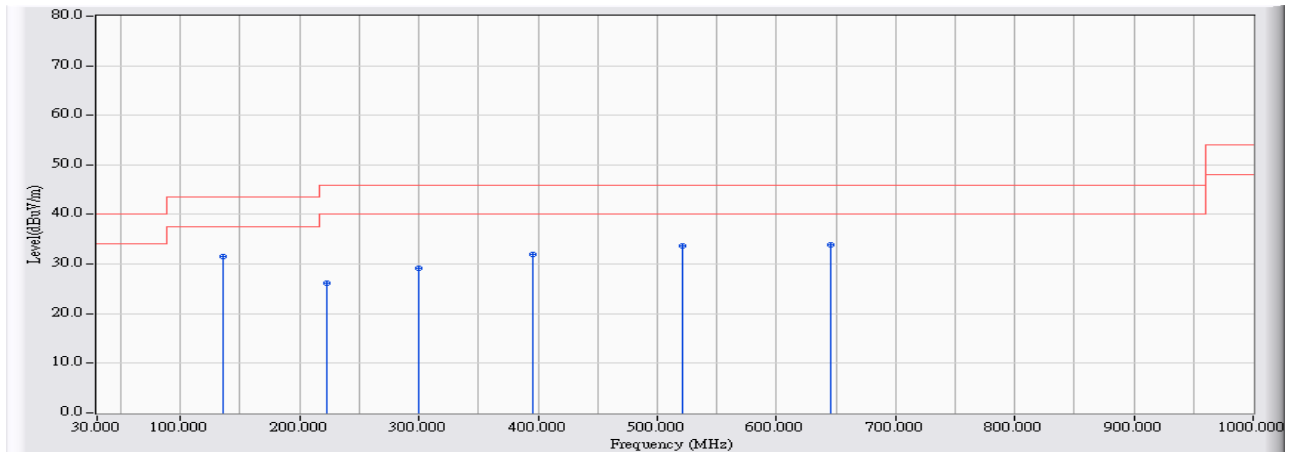


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		146.970	20.045	7.208	27.253	-16.247	43.500	QUASIPeAK
2		299.924	22.284	6.640	28.924	-17.076	46.000	QUASIPeAK
3		381.202	24.808	6.052	30.859	-15.141	46.000	QUASIPeAK
4		431.928	25.902	5.844	31.746	-14.254	46.000	QUASIPeAK
5		510.296	27.211	6.023	33.234	-12.766	46.000	QUASIPeAK
6	*	607.674	28.292	5.600	33.892	-12.108	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/01/17 - 22:10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_A138_30M-1GHz_1216 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 11: DCS_EGPRS 1900_Link Mode_ 1880

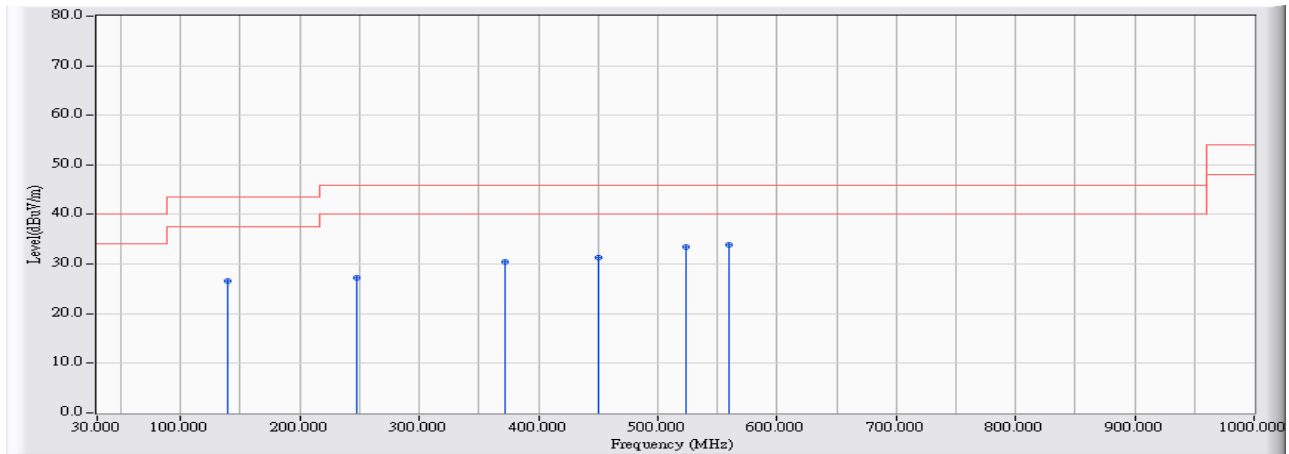


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	135.137	20.513	10.947	31.460	-12.040	43.500	QUASIPeAK
2		222.623	19.831	6.228	26.060	-19.940	46.000	QUASIPeAK
3		299.924	22.284	6.786	29.070	-16.930	46.000	QUASIPeAK
4		395.265	25.232	6.643	31.875	-14.125	46.000	QUASIPeAK
5		521.741	27.396	6.230	33.626	-12.374	46.000	QUASIPeAK
6		645.306	28.596	5.346	33.942	-12.058	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/01/17 - 22:32
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_A138_30M-1GHz_1216 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 12: DCS_EGPRS 1900_Idle Mode_ 1880

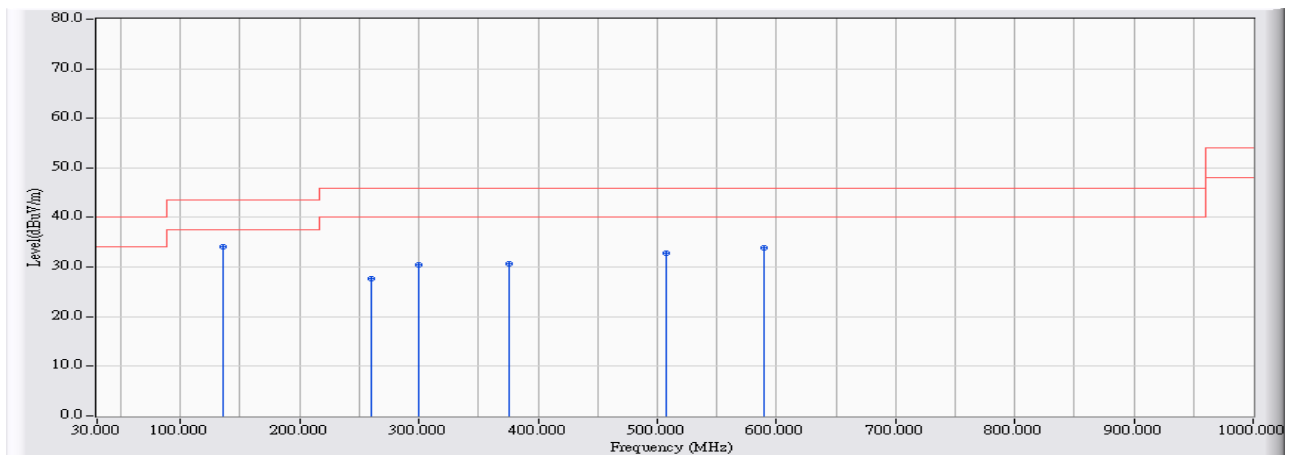


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		139.793	20.422	6.078	26.501	-16.999	43.500	QUASIPeAK
2		247.743	21.241	6.018	27.259	-18.741	46.000	QUASIPeAK
3		371.503	24.503	5.887	30.390	-15.610	46.000	QUASIPeAK
4		450.259	26.235	5.169	31.403	-14.597	46.000	QUASIPeAK
5		523.099	27.397	6.138	33.535	-12.465	46.000	QUASIPeAK
6	*	559.179	27.791	6.177	33.967	-12.033	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB4-H	Time : 2017/01/17 - 22:38
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB4-H_FCC_EFS_A138_30M-1GHz_1216 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 12: DCS_EGPRS 1900_Idle Mode_ 1880



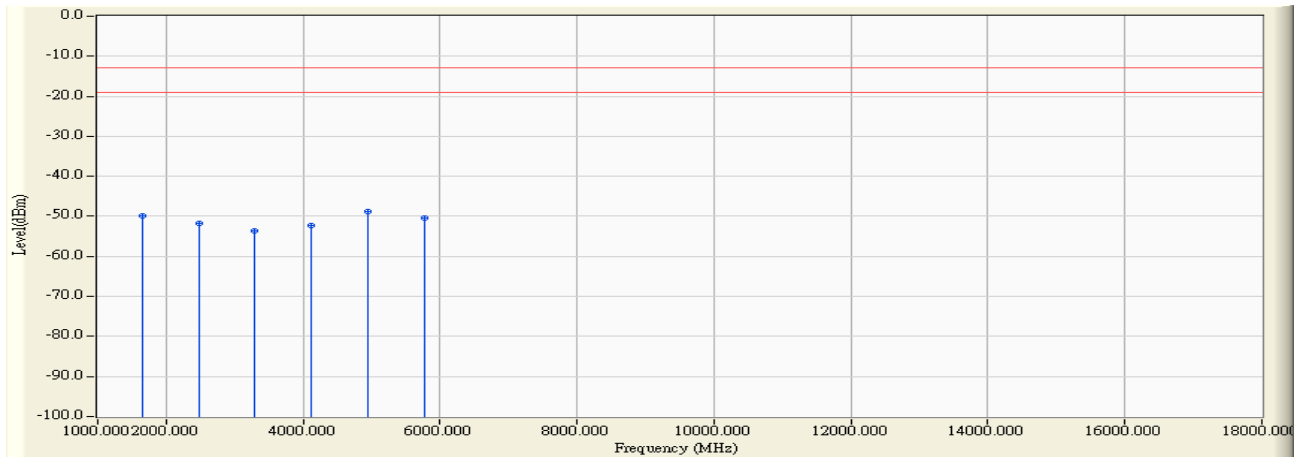
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	135.137	20.513	13.495	34.008	-9.492	43.500	QUASIPeAK
2		260.061	21.543	6.100	27.643	-18.357	46.000	QUASIPeAK
3		299.924	22.284	8.094	30.378	-15.622	46.000	QUASIPeAK
4		375.479	24.628	6.080	30.709	-15.291	46.000	QUASIPeAK
5		507.289	27.166	5.710	32.876	-13.124	46.000	QUASIPeAK
6		590.022	28.124	5.713	33.837	-12.163	46.000	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. “ * ”, means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Harmonic & Spurious:

Site : CB4-H	Time : 2016/11/28 - 16:49
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 1: GSM 850_Link Mode_CH:128

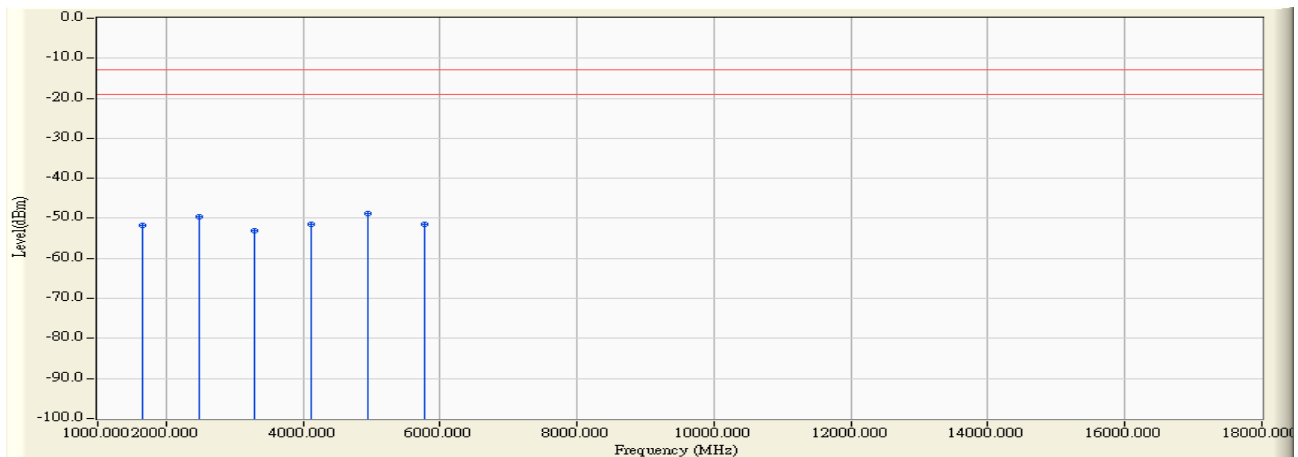


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1648.400	4.069	-54.030	-49.961	-36.961	-13.000	PEAK
2		2472.600	8.865	-60.650	-51.785	-38.785	-13.000	PEAK
3		3296.800	11.132	-64.630	-53.499	-40.499	-13.000	PEAK
4		4121.000	12.469	-64.720	-52.250	-39.250	-13.000	PEAK
5	*	4945.200	15.265	-64.150	-48.886	-35.886	-13.000	PEAK
6		5769.400	14.146	-64.420	-50.274	-37.274	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 15:58
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 1: GSM 850_Link Mode_CH:128

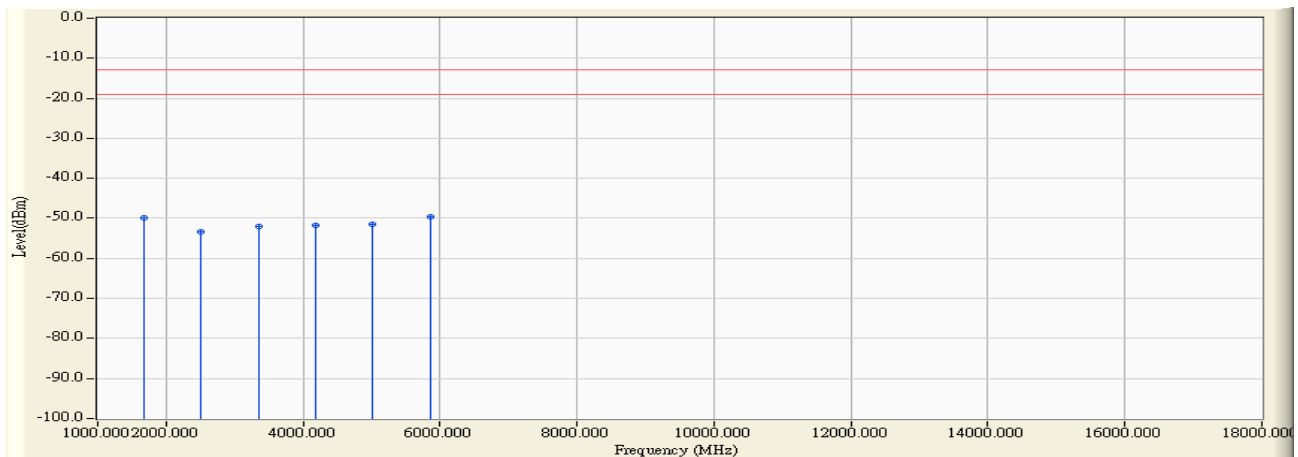


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1648.400	4.589	-56.240	-51.651	-38.651	-13.000	PEAK
2		2472.600	9.201	-58.810	-49.609	-36.609	-13.000	PEAK
3		3296.800	11.714	-64.770	-53.057	-40.057	-13.000	PEAK
4		4121.000	13.336	-64.750	-51.414	-38.414	-13.000	PEAK
5	*	4945.200	15.784	-64.650	-48.867	-35.867	-13.000	PEAK
6		5769.400	13.980	-65.330	-51.350	-38.350	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 18:05
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 1: GSM 850_Link Mode_CH:189

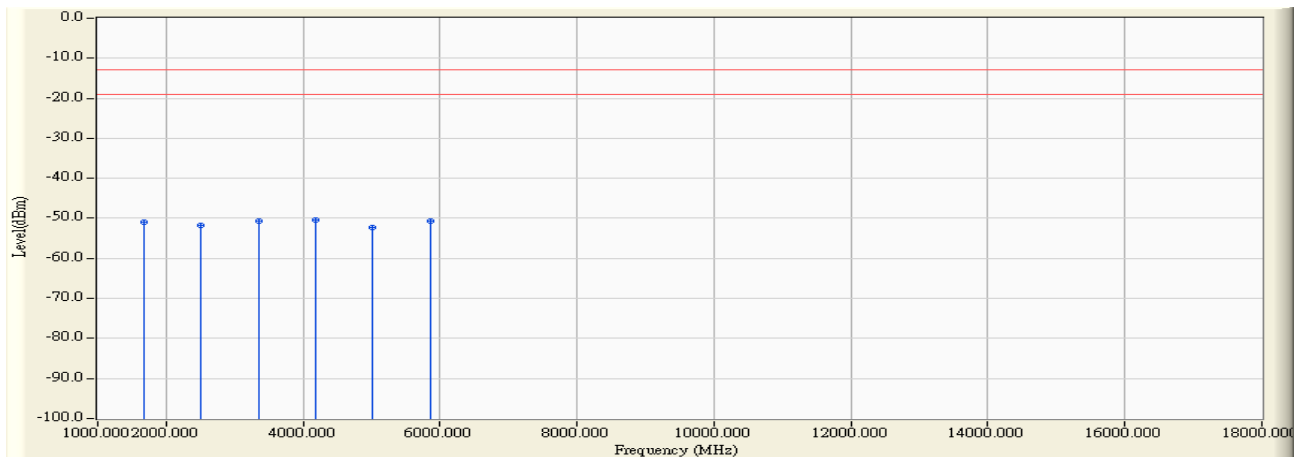


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.100	4.024	-53.910	-49.887	-36.887	-13.000	PEAK
2		2509.700	8.808	-62.200	-53.392	-40.392	-13.000	PEAK
3		3346.300	11.226	-63.320	-52.093	-39.093	-13.000	PEAK
4		4182.900	12.547	-64.420	-51.873	-38.873	-13.000	PEAK
5		5019.500	13.029	-64.460	-51.431	-38.431	-13.000	PEAK
6	*	5856.100	14.417	-64.100	-49.682	-36.682	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 17:51
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 1: GSM 850_Link Mode_CH:189

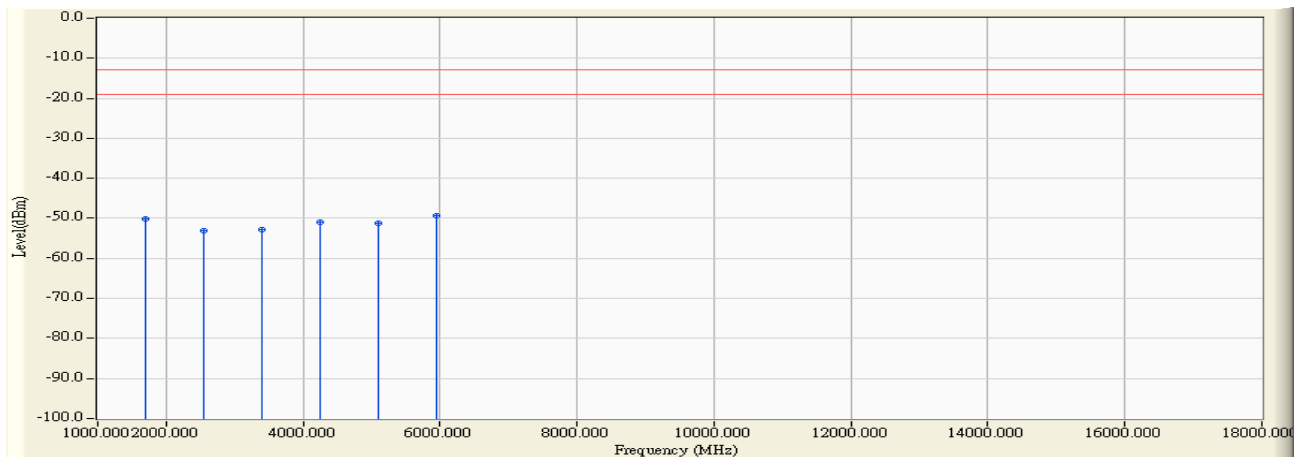


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.100	4.589	-55.600	-51.011	-38.011	-13.000	PEAK
2		2509.700	9.197	-60.820	-51.622	-38.622	-13.000	PEAK
3		3346.300	11.867	-62.540	-50.672	-37.672	-13.000	PEAK
4	*	4182.900	13.497	-63.840	-50.344	-37.344	-13.000	PEAK
5		5019.500	12.668	-64.920	-52.252	-39.252	-13.000	PEAK
6		5856.100	14.246	-64.840	-50.594	-37.594	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 17:05
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 1: GSM 850_Link Mode_CH:251

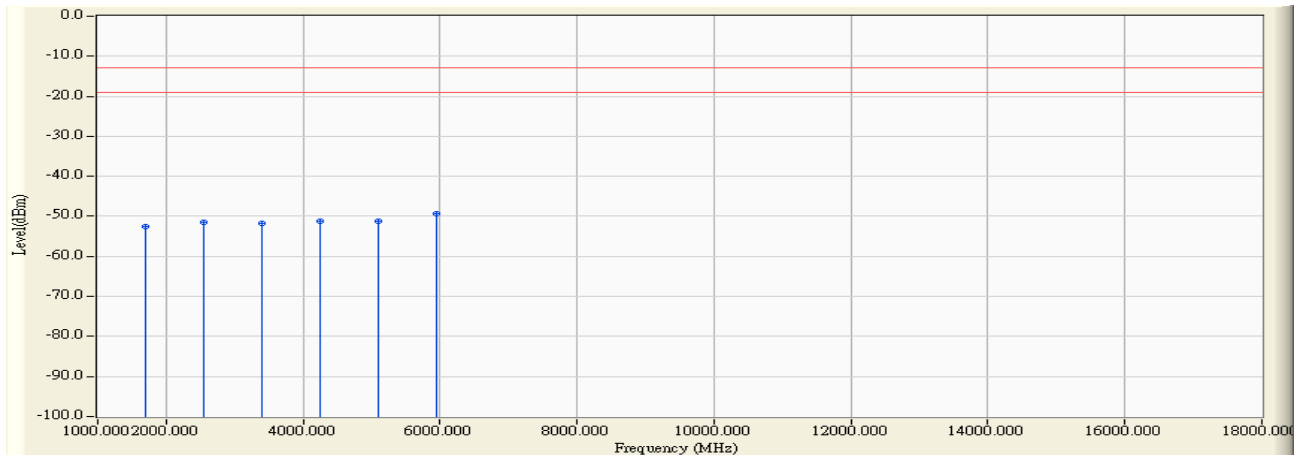


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1697.600	3.978	-54.030	-50.052	-37.052	-13.000	PEAK
2		2546.400	8.903	-62.070	-53.166	-40.166	-13.000	PEAK
3		3395.200	11.321	-64.260	-52.938	-39.938	-13.000	PEAK
4		4244.000	12.615	-63.510	-50.896	-37.896	-13.000	PEAK
5		5092.800	13.069	-64.260	-51.192	-38.192	-13.000	PEAK
6	*	5941.600	14.680	-63.950	-49.271	-36.271	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 17:37
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 1: GSM 850_Link Mode_CH:251

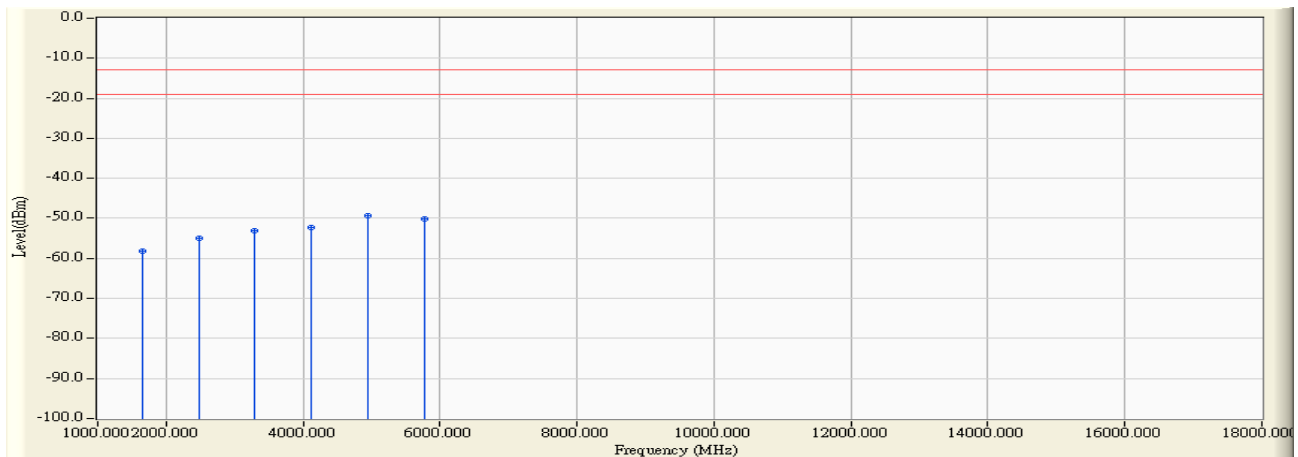


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1697.600	4.588	-57.170	-52.582	-39.582	-13.000	PEAK
2		2546.400	9.279	-60.620	-51.341	-38.341	-13.000	PEAK
3		3395.200	12.020	-63.730	-51.710	-38.710	-13.000	PEAK
4		4244.000	13.646	-64.770	-51.125	-38.125	-13.000	PEAK
5		5092.800	12.740	-64.070	-51.331	-38.331	-13.000	PEAK
6	*	5941.600	14.503	-63.740	-49.237	-36.237	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 16:38
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 2: GSM 850_Idle Mode_CH:128

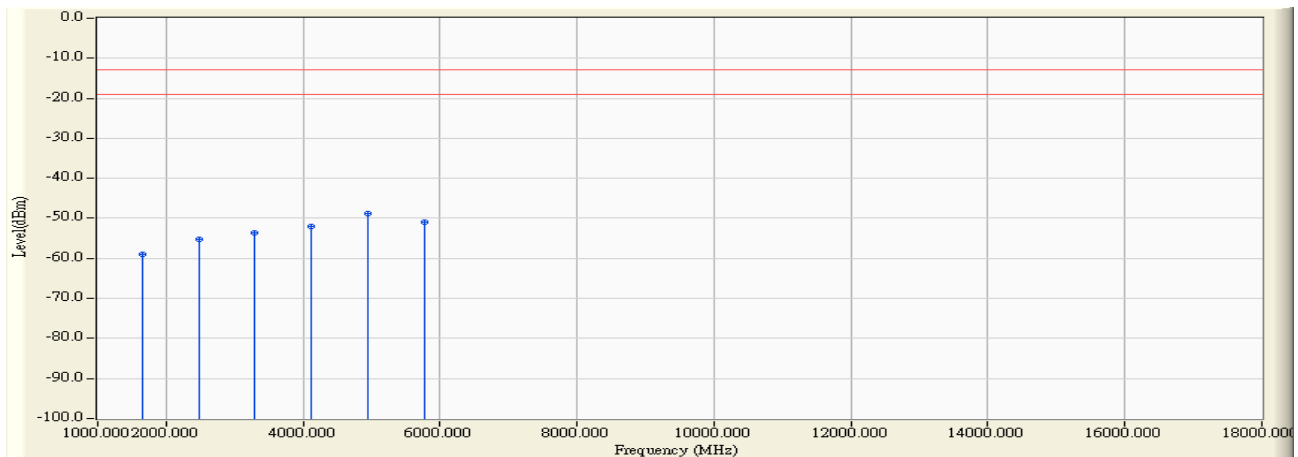


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1648.400	4.069	-62.370	-58.301	-45.301	-13.000	PEAK
2		2472.600	8.865	-63.730	-54.865	-41.865	-13.000	PEAK
3		3296.800	11.132	-64.330	-53.199	-40.199	-13.000	PEAK
4		4121.000	12.469	-64.850	-52.380	-39.380	-13.000	PEAK
5	*	4945.200	15.265	-64.630	-49.366	-36.366	-13.000	PEAK
6		5769.400	14.146	-64.390	-50.244	-37.244	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 16:00
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 2: GSM 850_Idle Mode_CH:128

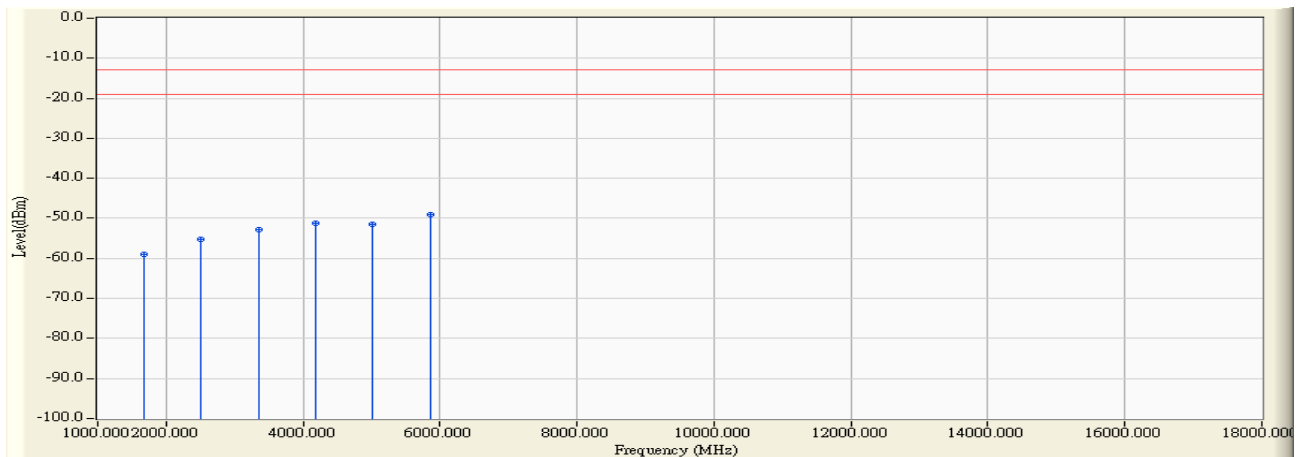


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1648.400	4.589	-63.520	-58.931	-45.931	-13.000	PEAK
2		2472.600	9.201	-64.540	-55.339	-42.339	-13.000	PEAK
3		3296.800	11.714	-65.310	-53.597	-40.597	-13.000	PEAK
4		4121.000	13.336	-65.240	-51.904	-38.904	-13.000	PEAK
5	*	4945.200	15.784	-64.620	-48.837	-35.837	-13.000	PEAK
6		5769.400	13.980	-64.990	-51.010	-38.010	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 18:13
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 2: GSM 850_Idle Mode_CH:189

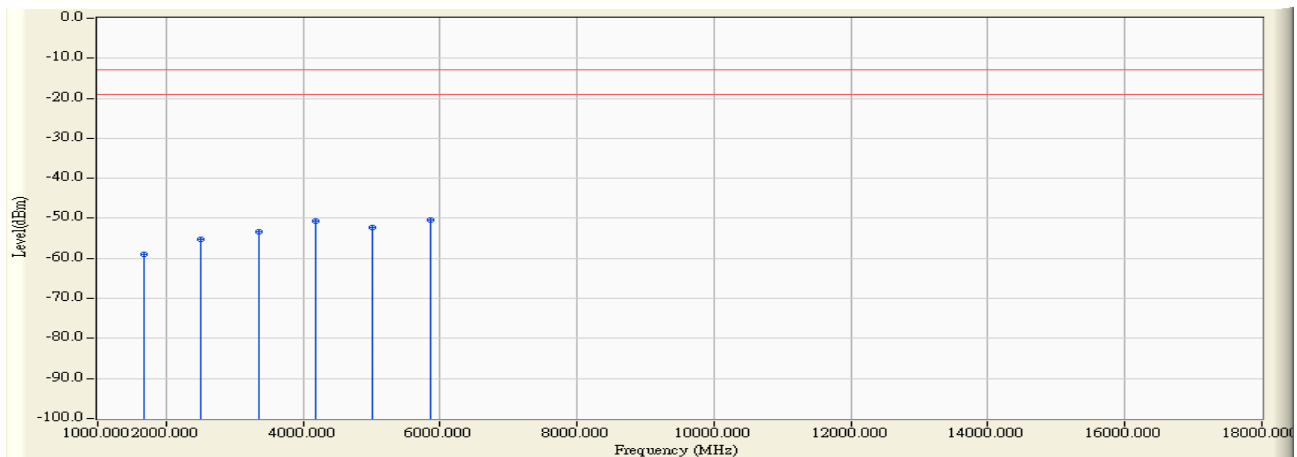


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.100	4.024	-62.960	-58.937	-45.937	-13.000	PEAK
2		2509.700	8.808	-63.970	-55.162	-42.162	-13.000	PEAK
3		3346.300	11.226	-64.160	-52.933	-39.933	-13.000	PEAK
4		4182.900	12.547	-63.640	-51.093	-38.093	-13.000	PEAK
5		5019.500	13.029	-64.580	-51.551	-38.551	-13.000	PEAK
6	*	5856.100	14.417	-63.560	-49.142	-36.142	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 17:54
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 2: GSM 850_Idle Mode_CH:189

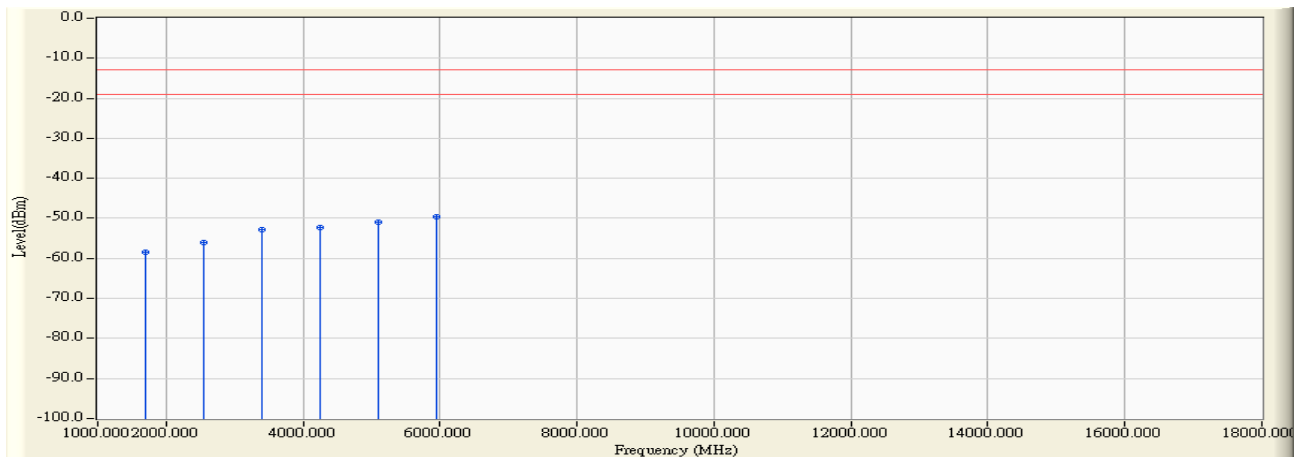


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.100	4.589	-63.590	-59.001	-46.001	-13.000	PEAK
2		2509.700	9.197	-64.440	-55.242	-42.242	-13.000	PEAK
3		3346.300	11.867	-65.300	-53.432	-40.432	-13.000	PEAK
4		4182.900	13.497	-64.300	-50.804	-37.804	-13.000	PEAK
5		5019.500	12.668	-64.900	-52.232	-39.232	-13.000	PEAK
6	*	5856.100	14.246	-64.590	-50.344	-37.344	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 17:16
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 2: GSM 850_Idle Mode_CH:251

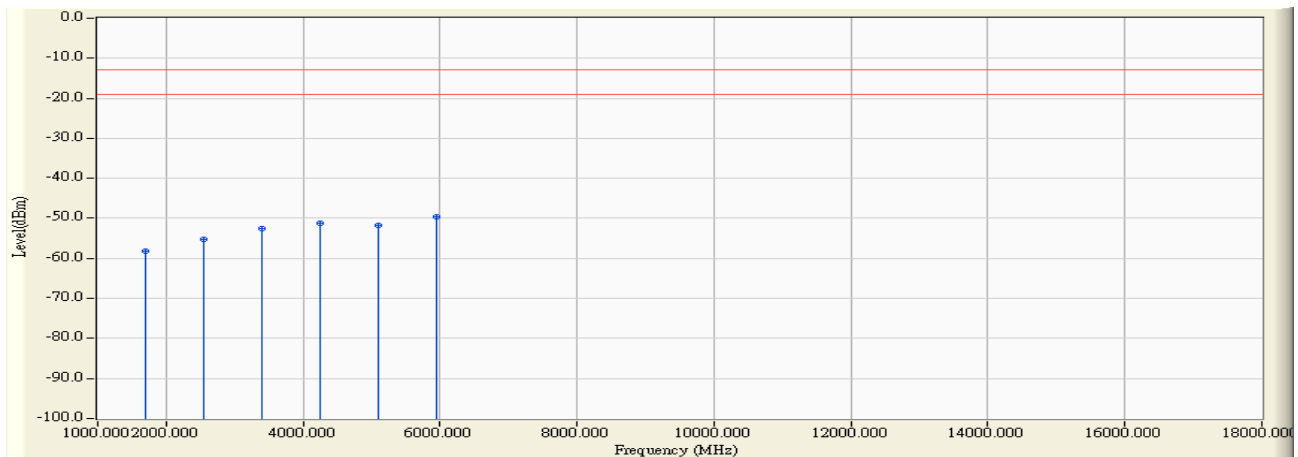


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1697.600	3.978	-62.550	-58.572	-45.572	-13.000	PEAK
2		2546.400	8.903	-64.950	-56.046	-43.046	-13.000	PEAK
3		3395.200	11.321	-64.210	-52.888	-39.888	-13.000	PEAK
4		4244.000	12.615	-64.840	-52.226	-39.226	-13.000	PEAK
5		5092.800	13.069	-63.980	-50.912	-37.912	-13.000	PEAK
6	*	5941.600	14.680	-64.260	-49.581	-36.581	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 17:23
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 2: GSM 850_Idle Mode_CH:251

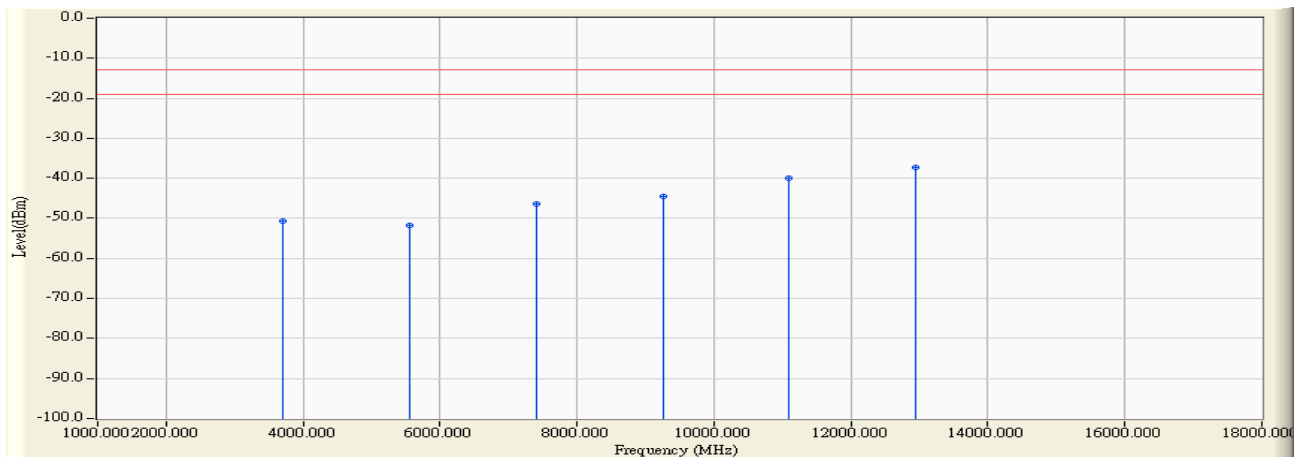


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1697.600	4.588	-62.870	-58.282	-45.282	-13.000	PEAK
2		2546.400	9.279	-64.550	-55.271	-42.271	-13.000	PEAK
3		3395.200	12.020	-64.450	-52.430	-39.430	-13.000	PEAK
4		4244.000	13.646	-64.750	-51.105	-38.105	-13.000	PEAK
5		5092.800	12.740	-64.540	-51.801	-38.801	-13.000	PEAK
6	*	5941.600	14.503	-64.210	-49.707	-36.707	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 14:57
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 3: DCS 1900_Link Mode_ CH:512

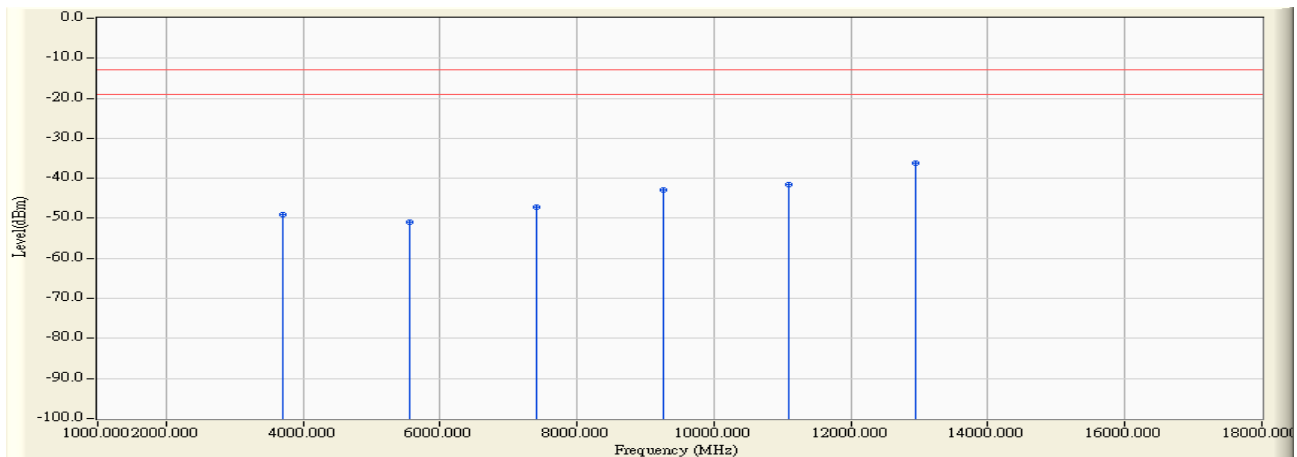


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3700.400	11.965	-62.640	-50.675	-37.675	-13.000	PEAK
2		5550.600	13.445	-65.150	-51.705	-38.705	-13.000	PEAK
3		7400.800	19.422	-65.870	-46.448	-33.448	-13.000	PEAK
4		9251.000	22.833	-67.410	-44.577	-31.577	-13.000	PEAK
5		11101.200	25.812	-65.790	-39.978	-26.978	-13.000	PEAK
6	*	12951.400	30.417	-67.790	-37.373	-24.373	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 14:24
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 3: DCS 1900_Link Mode_ CH:512

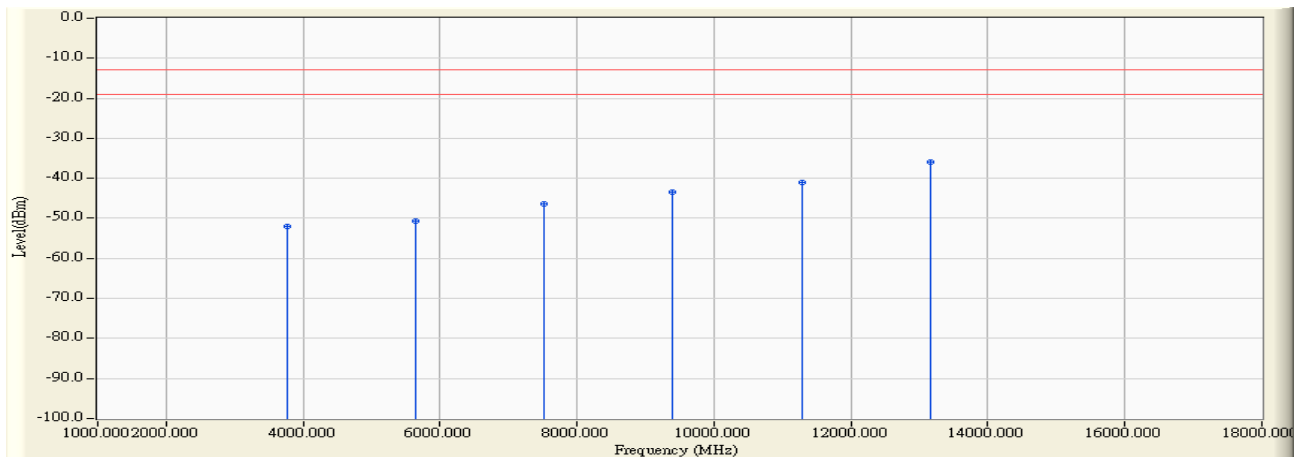


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3700.400	12.766	-61.710	-48.944	-35.944	-13.000	PEAK
2		5550.600	13.292	-64.210	-50.918	-37.918	-13.000	PEAK
3		7400.800	19.207	-66.390	-47.183	-34.183	-13.000	PEAK
4		9251.000	24.090	-67.090	-43.000	-30.000	-13.000	PEAK
5		11101.200	24.686	-66.340	-41.655	-28.655	-13.000	PEAK
6	*	12951.400	31.620	-67.930	-36.310	-23.310	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 13:49
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 3: DCS 1900_Link Mode_ CH:661

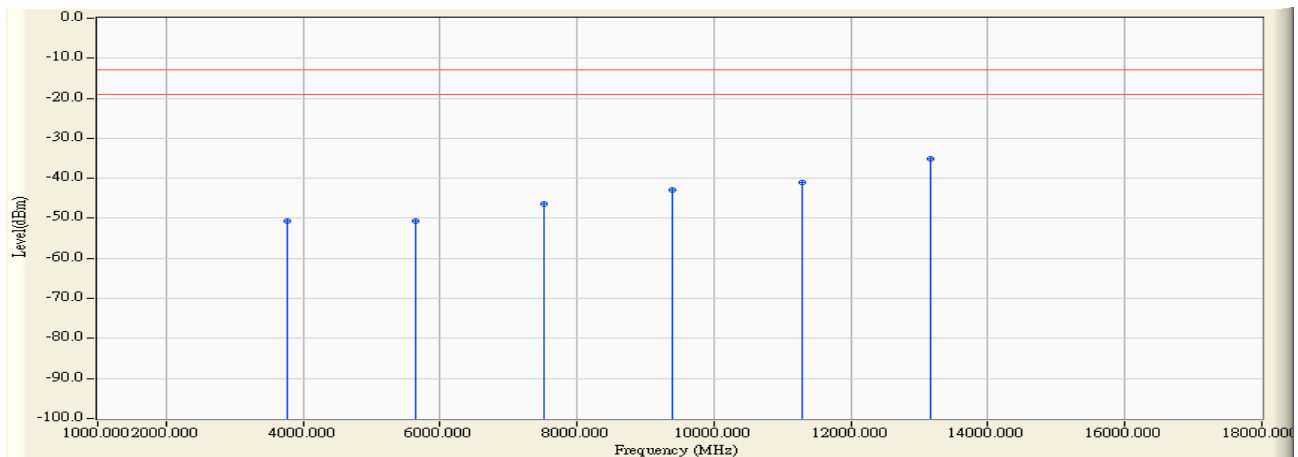


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	12.082	-64.220	-52.138	-39.138	-13.000	PEAK
2		5640.000	13.733	-64.420	-50.687	-37.687	-13.000	PEAK
3		7520.000	19.570	-65.950	-46.380	-33.380	-13.000	PEAK
4		9400.000	22.889	-66.380	-43.491	-30.491	-13.000	PEAK
5		11280.000	26.073	-66.970	-40.897	-27.897	-13.000	PEAK
6	*	13160.000	30.816	-66.640	-35.824	-22.824	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 13:34
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 3: DCS 1900_Link Mode_ CH:661

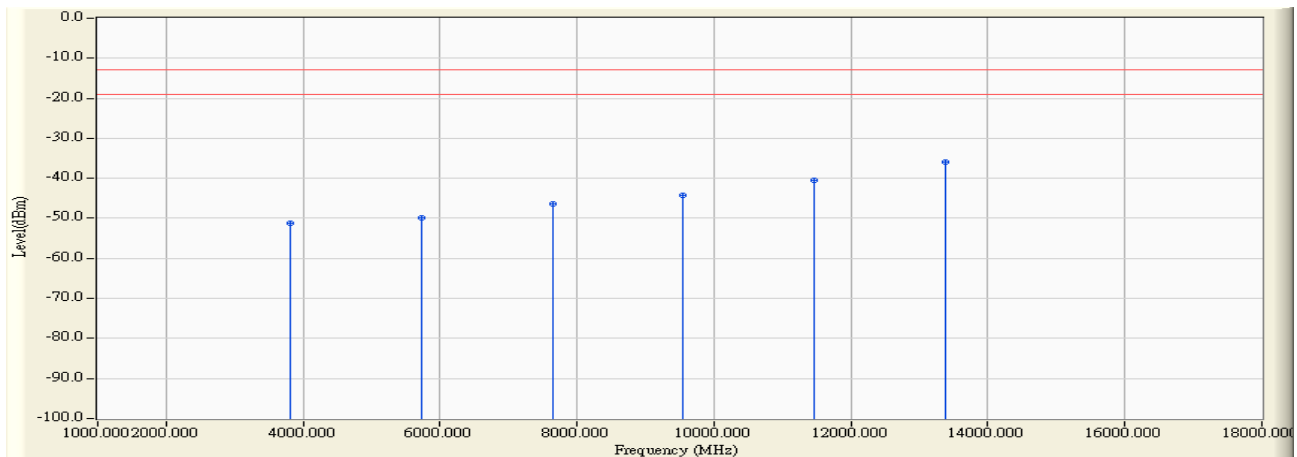


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	12.874	-63.540	-50.666	-37.666	-13.000	PEAK
2		5640.000	13.575	-64.170	-50.595	-37.595	-13.000	PEAK
3		7520.000	19.656	-65.920	-46.264	-33.264	-13.000	PEAK
4		9400.000	24.351	-67.340	-42.989	-29.989	-13.000	PEAK
5		11280.000	25.447	-66.450	-41.003	-28.003	-13.000	PEAK
6	*	13160.000	32.136	-67.150	-35.014	-22.014	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 15:10
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 3: DCS 1900_Link Mode_ CH:810

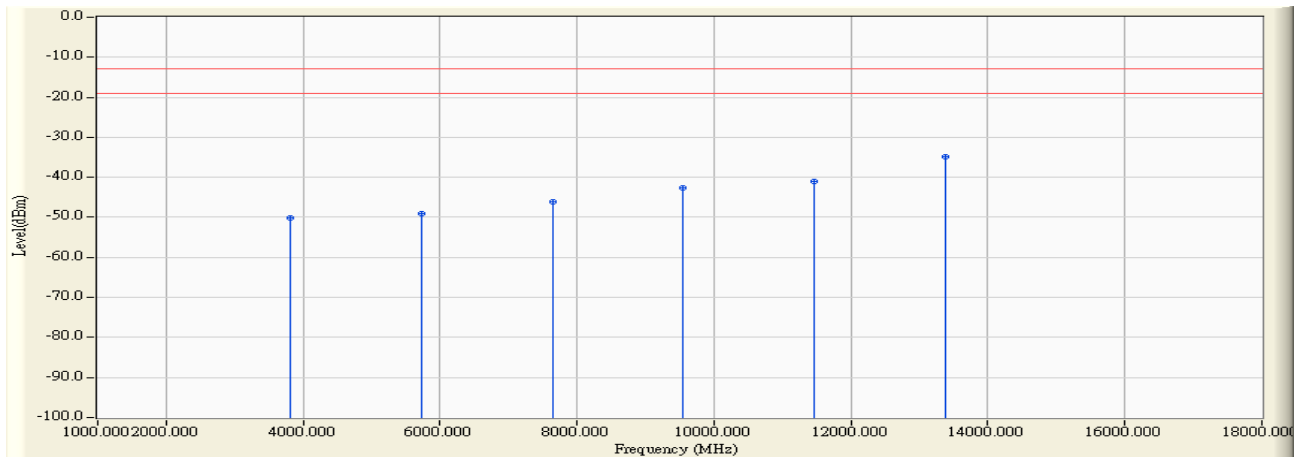


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3819.600	12.146	-63.390	-51.244	-38.244	-13.000	PEAK
2		5729.400	14.018	-63.960	-49.941	-36.941	-13.000	PEAK
3		7639.200	19.977	-66.230	-46.254	-33.254	-13.000	PEAK
4		9549.000	22.998	-67.290	-44.292	-31.292	-13.000	PEAK
5		11458.800	26.467	-66.950	-40.484	-27.484	-13.000	PEAK
6	*	13368.600	31.069	-67.090	-36.021	-23.021	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 15:29
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 3: DCS 1900_Link Mode_ CH:810

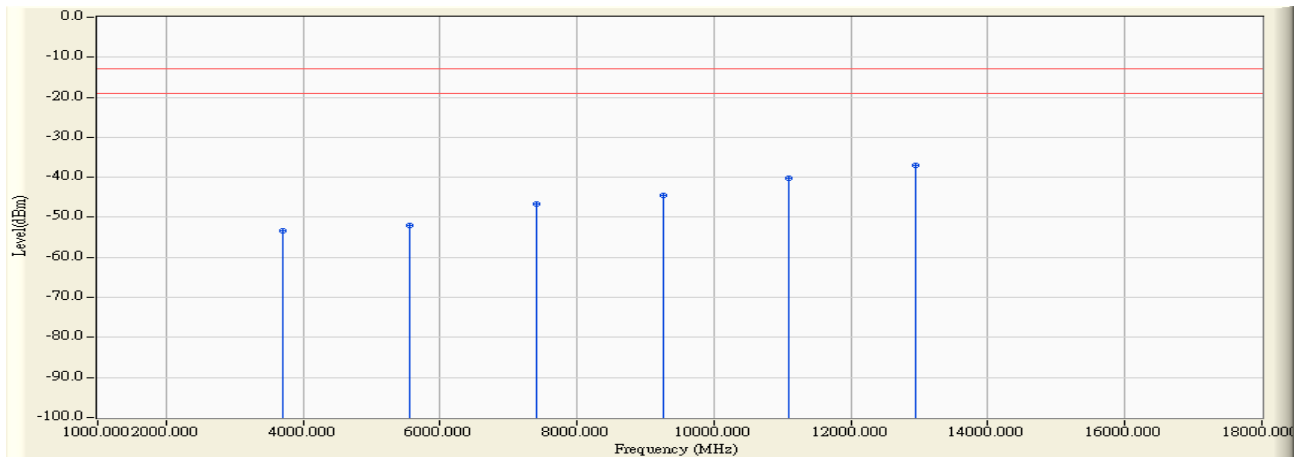


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3819.600	12.916	-62.930	-50.014	-37.014	-13.000	PEAK
2		5729.400	13.855	-62.820	-48.965	-35.965	-13.000	PEAK
3		7639.200	19.857	-66.040	-46.183	-33.183	-13.000	PEAK
4		9549.000	24.517	-67.070	-42.554	-29.554	-13.000	PEAK
5		11458.800	26.341	-67.460	-41.119	-28.119	-13.000	PEAK
6	*	13368.600	32.610	-67.500	-34.890	-21.890	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 14:44
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 4: DCS 1900_Idle Mode_ CH:512

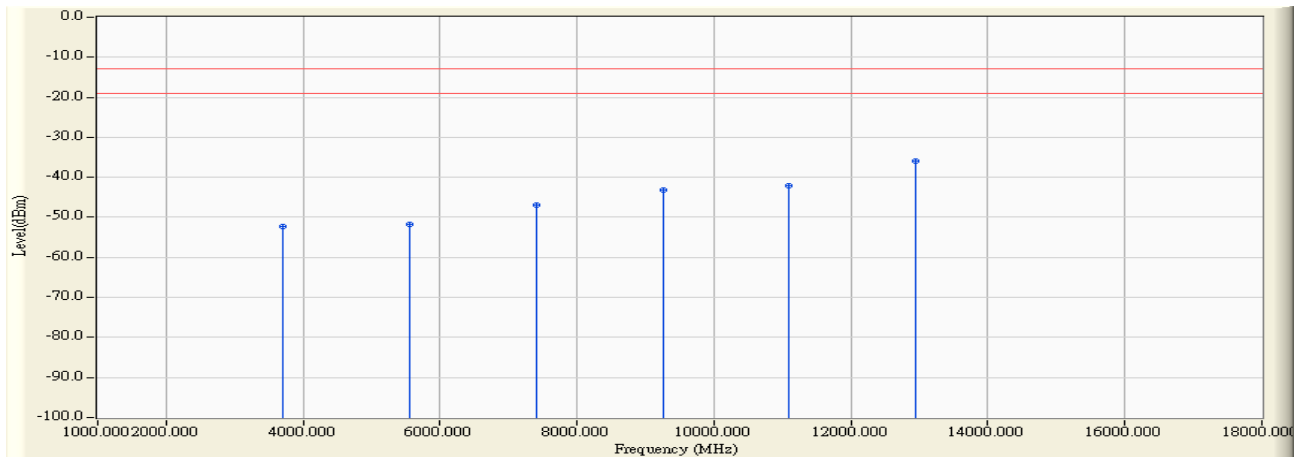


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3700.400	11.965	-65.420	-53.455	-40.455	-13.000	PEAK
2		5550.600	13.445	-65.470	-52.025	-39.025	-13.000	PEAK
3		7400.800	19.422	-66.070	-46.648	-33.648	-13.000	PEAK
4		9251.000	22.833	-67.320	-44.487	-31.487	-13.000	PEAK
5		11101.200	25.812	-65.930	-40.118	-27.118	-13.000	PEAK
6	*	12951.400	30.417	-67.320	-36.903	-23.903	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 14:34
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 4: DCS 1900_Idle Mode_ CH:512

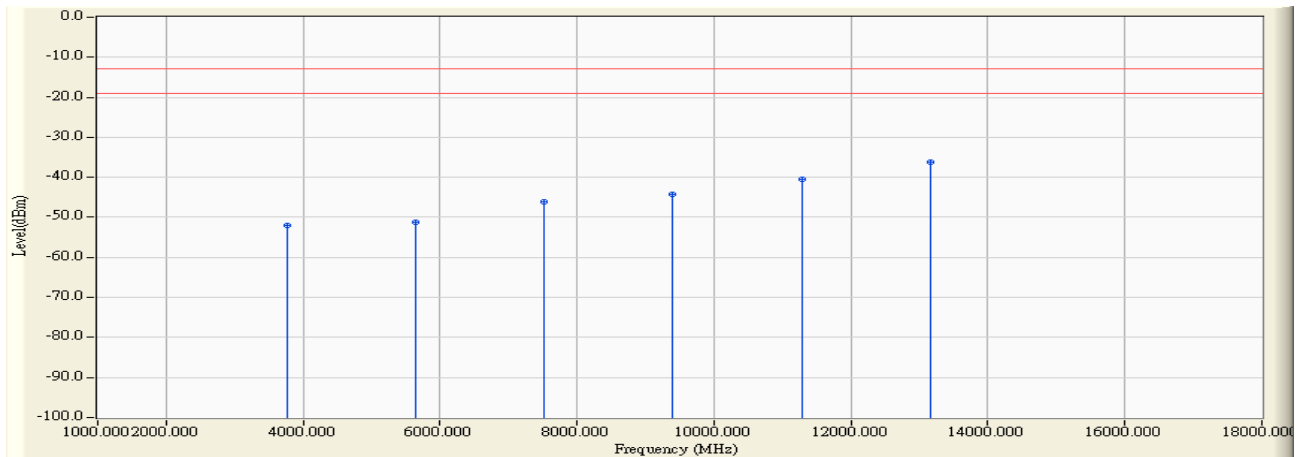


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3700.400	12.766	-65.160	-52.394	-39.394	-13.000	PEAK
2		5550.600	13.292	-65.070	-51.778	-38.778	-13.000	PEAK
3		7400.800	19.207	-66.170	-46.963	-33.963	-13.000	PEAK
4		9251.000	24.090	-67.290	-43.200	-30.200	-13.000	PEAK
5		11101.200	24.686	-66.720	-42.035	-29.035	-13.000	PEAK
6	*	12951.400	31.620	-67.650	-36.030	-23.030	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 13:58
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 4: DCS 1900_Idle Mode_ CH:661

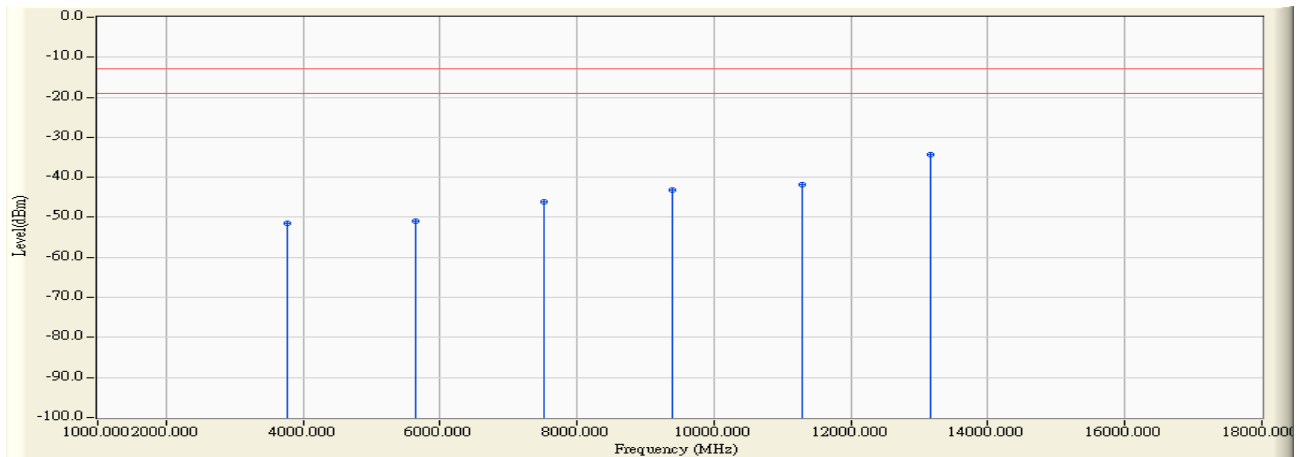


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	12.082	-64.200	-52.118	-39.118	-13.000	PEAK
2		5640.000	13.733	-64.890	-51.157	-38.157	-13.000	PEAK
3		7520.000	19.570	-65.800	-46.230	-33.230	-13.000	PEAK
4		9400.000	22.889	-67.070	-44.181	-31.181	-13.000	PEAK
5		11280.000	26.073	-66.590	-40.517	-27.517	-13.000	PEAK
6	*	13160.000	30.816	-66.990	-36.174	-23.174	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 14:07
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 4: DCS 1900_Idle Mode_ CH:661

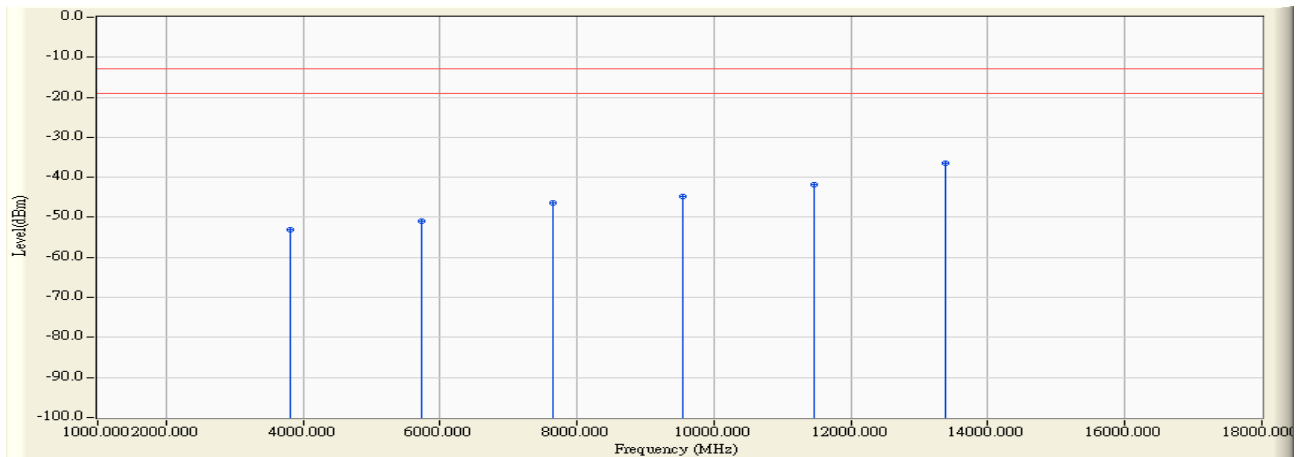


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	12.874	-64.380	-51.506	-38.506	-13.000	PEAK
2		5640.000	13.575	-64.500	-50.925	-37.925	-13.000	PEAK
3		7520.000	19.656	-65.850	-46.194	-33.194	-13.000	PEAK
4		9400.000	24.351	-67.560	-43.209	-30.209	-13.000	PEAK
5		11280.000	25.447	-67.390	-41.943	-28.943	-13.000	PEAK
6	*	13160.000	32.136	-66.320	-34.184	-21.184	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 15:12
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 4: DCS 1900_Idle Mode_ CH:810

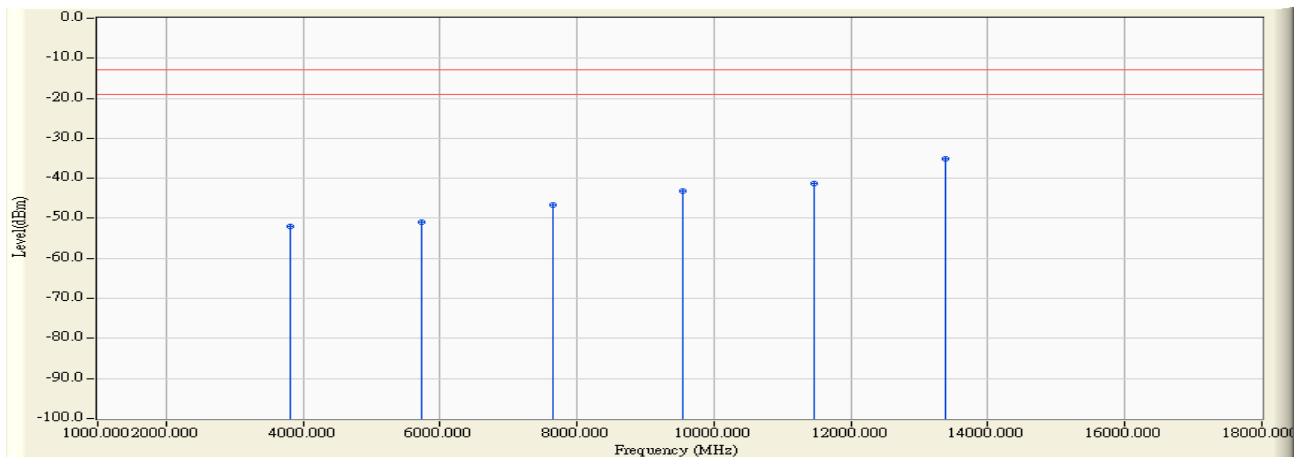


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3819.600	12.146	-65.150	-53.004	-40.004	-13.000	PEAK
2		5729.400	14.018	-65.080	-51.061	-38.061	-13.000	PEAK
3		7639.200	19.977	-66.480	-46.504	-33.504	-13.000	PEAK
4		9549.000	22.998	-67.660	-44.662	-31.662	-13.000	PEAK
5		11458.800	26.467	-68.200	-41.734	-28.734	-13.000	PEAK
6	*	13368.600	31.069	-67.540	-36.471	-23.471	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 15:14
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 4: DCS 1900_Idle Mode_ CH:810

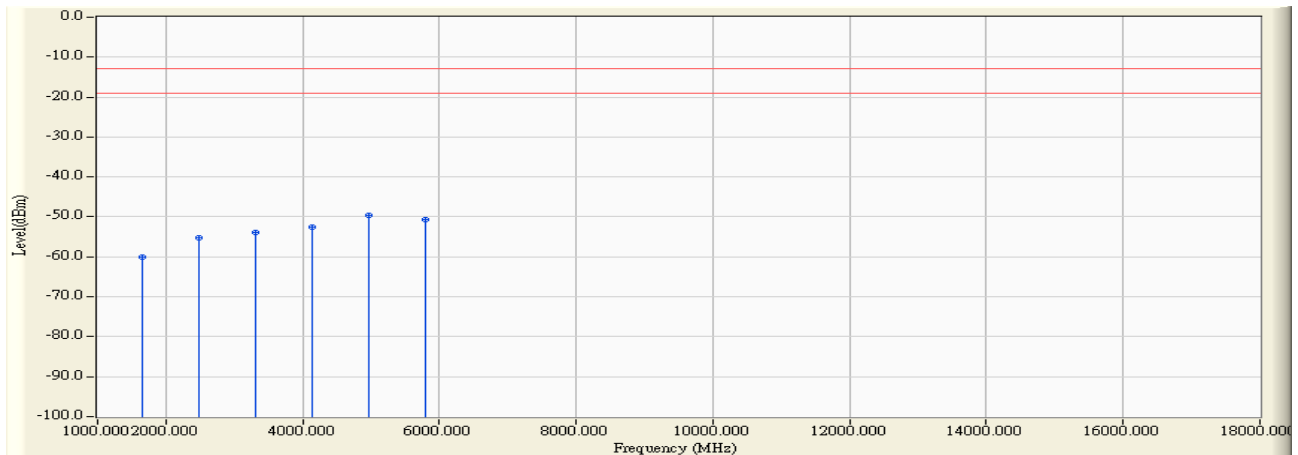


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3819.600	12.916	-64.930	-52.014	-39.014	-13.000	PEAK
2		5729.400	13.855	-64.890	-51.035	-38.035	-13.000	PEAK
3		7639.200	19.857	-66.520	-46.663	-33.663	-13.000	PEAK
4		9549.000	24.517	-67.550	-43.034	-30.034	-13.000	PEAK
5		11458.800	26.341	-67.650	-41.309	-28.309	-13.000	PEAK
6	*	13368.600	32.610	-67.630	-35.020	-22.020	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 19:18
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 5: WCDMA Band 5_Link Mode_CH:4132

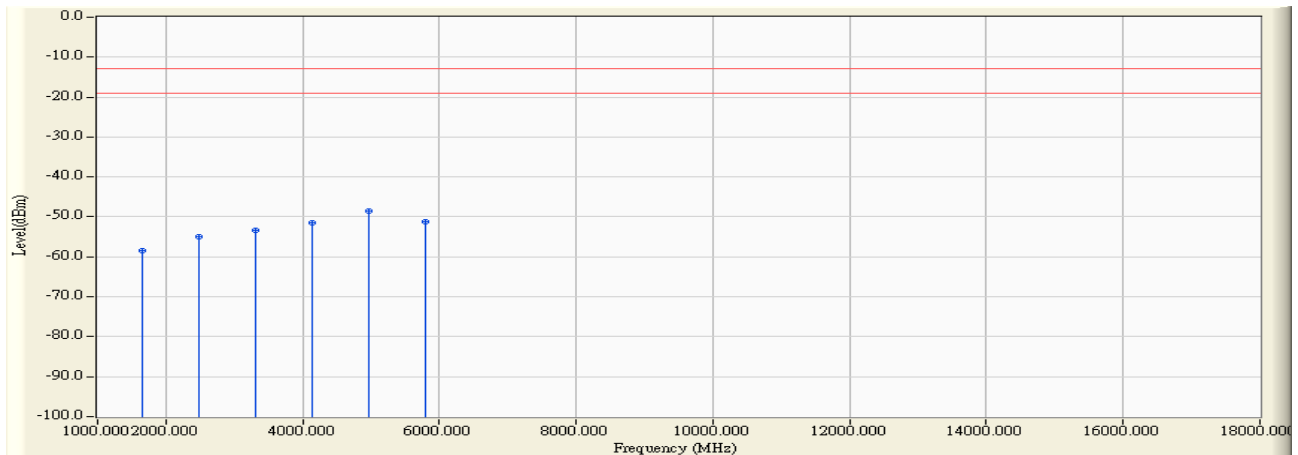


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1652.800	4.061	-63.990	-59.929	-46.929	-13.000	PEAK
2		2479.200	8.843	-64.130	-55.286	-42.286	-13.000	PEAK
3		3305.600	11.148	-64.960	-53.812	-40.812	-13.000	PEAK
4		4132.000	12.483	-65.010	-52.526	-39.526	-13.000	PEAK
5	*	4958.400	15.292	-64.970	-49.678	-36.678	-13.000	PEAK
6		5784.800	14.194	-64.930	-50.736	-37.736	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 19:26
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 5: WCDMA Band 5_Link Mode_CH:4132

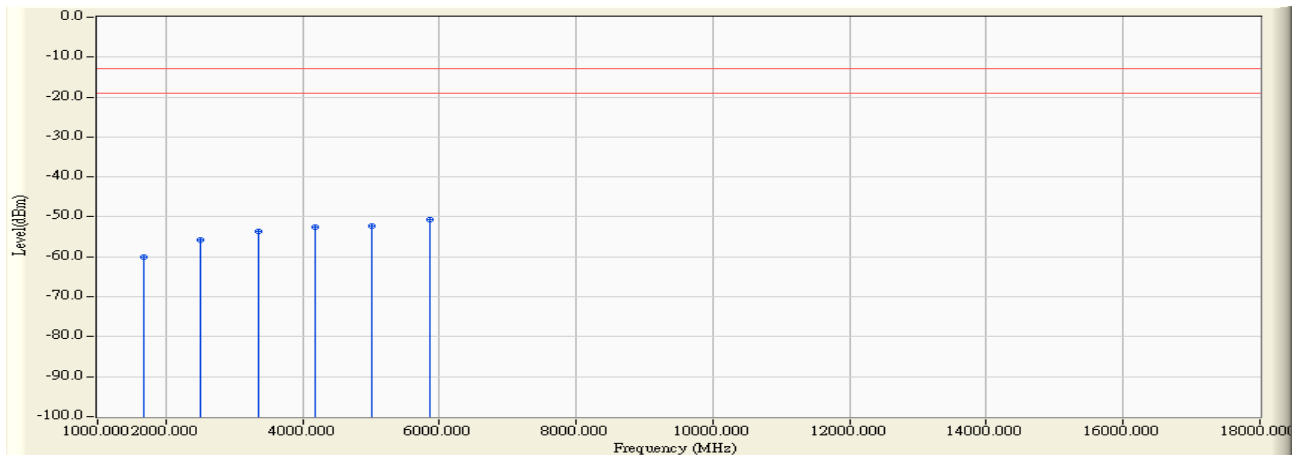


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1652.800	4.589	-62.900	-58.311	-45.311	-13.000	PEAK
2		2479.200	9.194	-64.150	-54.956	-41.956	-13.000	PEAK
3		3305.600	11.741	-65.060	-53.319	-40.319	-13.000	PEAK
4		4132.000	13.365	-64.880	-51.515	-38.515	-13.000	PEAK
5	*	4958.400	15.796	-64.340	-48.544	-35.544	-13.000	PEAK
6		5784.800	14.027	-65.100	-51.074	-38.074	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 20:30
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 5: WCDMA Band 5_Link Mode_ CH:4183

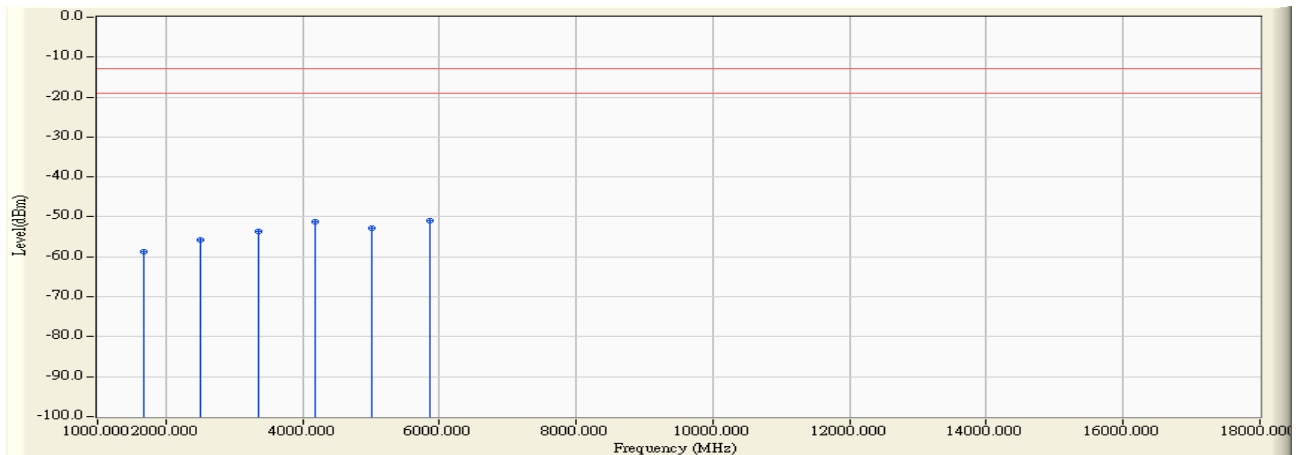


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.200	4.023	-64.120	-60.097	-47.097	-13.000	PEAK
2		2509.800	8.808	-64.470	-55.661	-42.661	-13.000	PEAK
3		3346.400	11.226	-64.910	-53.683	-40.683	-13.000	PEAK
4		4183.000	12.546	-65.130	-52.583	-39.583	-13.000	PEAK
5		5019.600	13.029	-65.400	-52.371	-39.371	-13.000	PEAK
6	*	5856.200	14.418	-64.970	-50.552	-37.552	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 20:33
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 5: WCDMA Band 5_Link Mode_ CH:4183

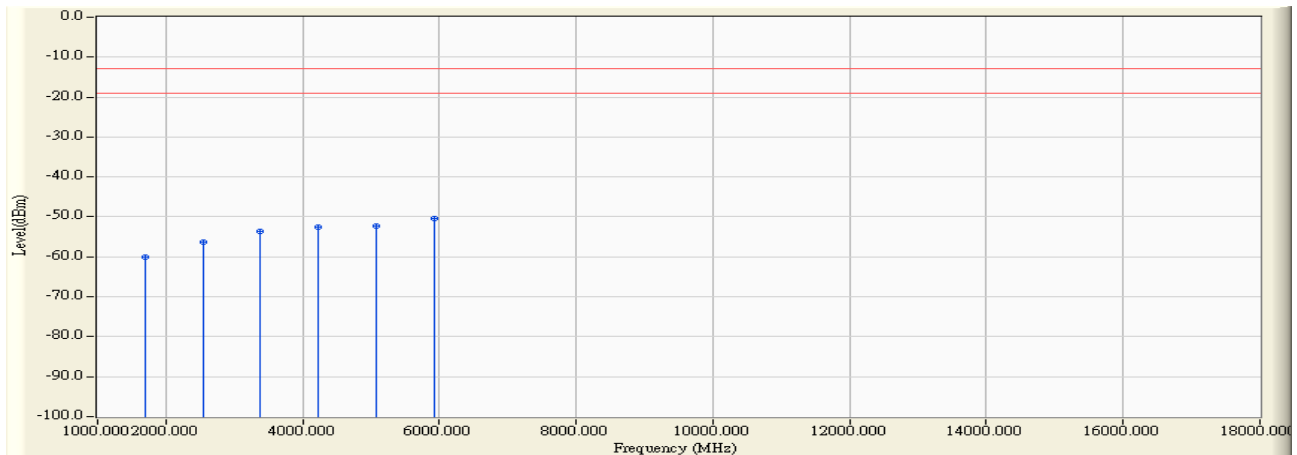


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.200	4.588	-63.340	-58.751	-45.751	-13.000	PEAK
2		2509.800	9.197	-64.990	-55.792	-42.792	-13.000	PEAK
3		3346.400	11.867	-65.500	-53.632	-40.632	-13.000	PEAK
4		4183.000	13.496	-64.830	-51.333	-38.333	-13.000	PEAK
5		5019.600	12.668	-65.610	-52.942	-39.942	-13.000	PEAK
6	*	5856.200	14.246	-65.240	-50.994	-37.994	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 20:15
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 5: WCDMA Band 5_Link Mode_ CH:4233

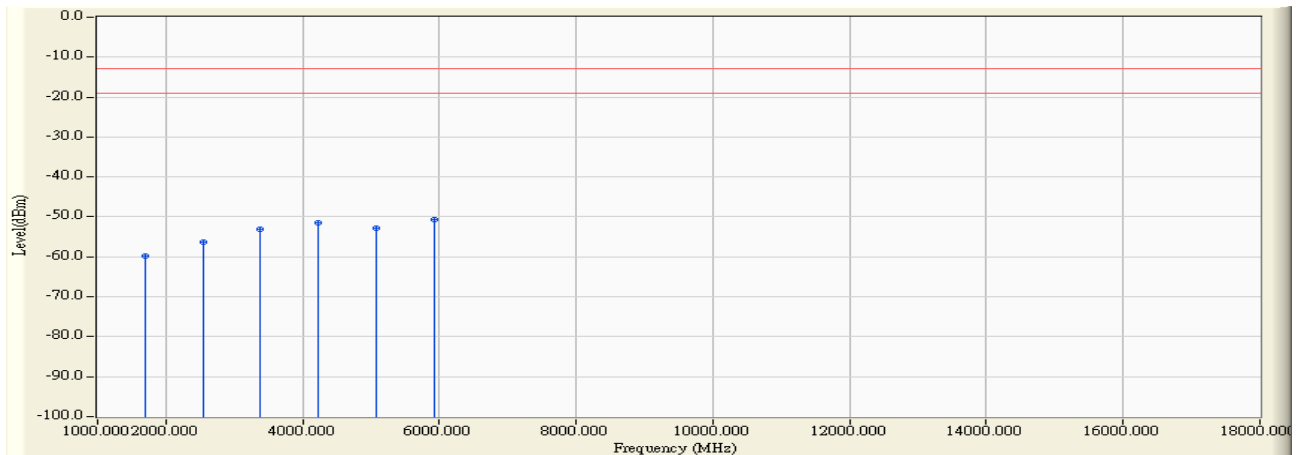


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1693.200	3.986	-64.020	-60.034	-47.034	-13.000	PEAK
2		2539.800	8.885	-65.100	-56.214	-43.214	-13.000	PEAK
3		3386.400	11.305	-64.820	-53.516	-40.516	-13.000	PEAK
4		4233.000	12.603	-65.070	-52.467	-39.467	-13.000	PEAK
5		5079.600	13.061	-65.290	-52.229	-39.229	-13.000	PEAK
6	*	5926.200	14.633	-64.980	-50.346	-37.346	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 20:18
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 5: WCDMA Band 5_Link Mode_ CH:4233

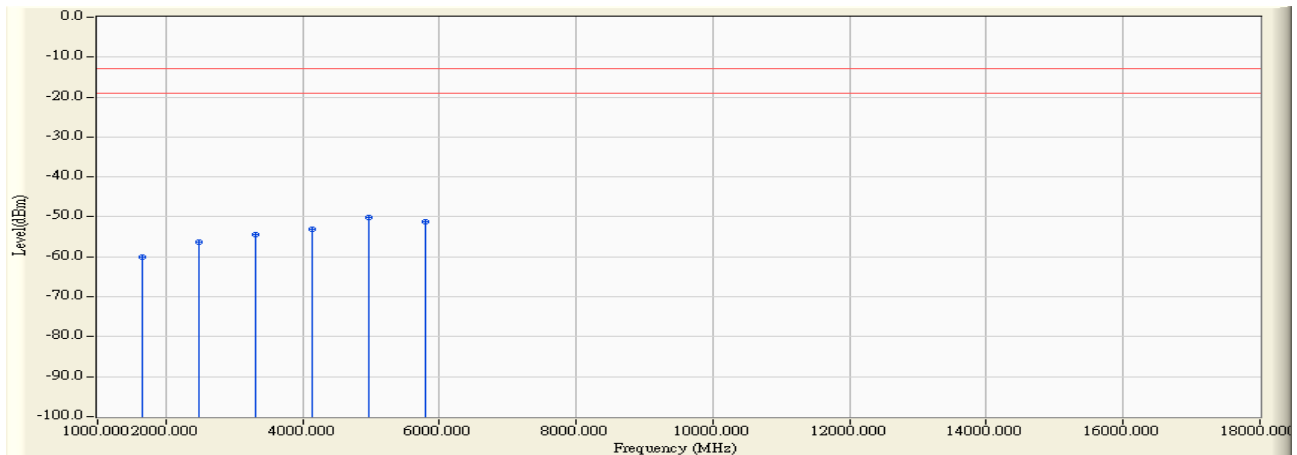


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1693.200	4.588	-64.460	-59.872	-46.872	-13.000	PEAK
2		2539.800	9.264	-65.530	-56.266	-43.266	-13.000	PEAK
3		3386.400	11.993	-65.040	-53.047	-40.047	-13.000	PEAK
4		4233.000	13.619	-65.100	-51.481	-38.481	-13.000	PEAK
5		5079.600	12.727	-65.580	-52.854	-39.854	-13.000	PEAK
6	*	5926.200	14.458	-65.070	-50.612	-37.612	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 19:32
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 6: WCDMA Band 5_Idle Mode_ CH:4132

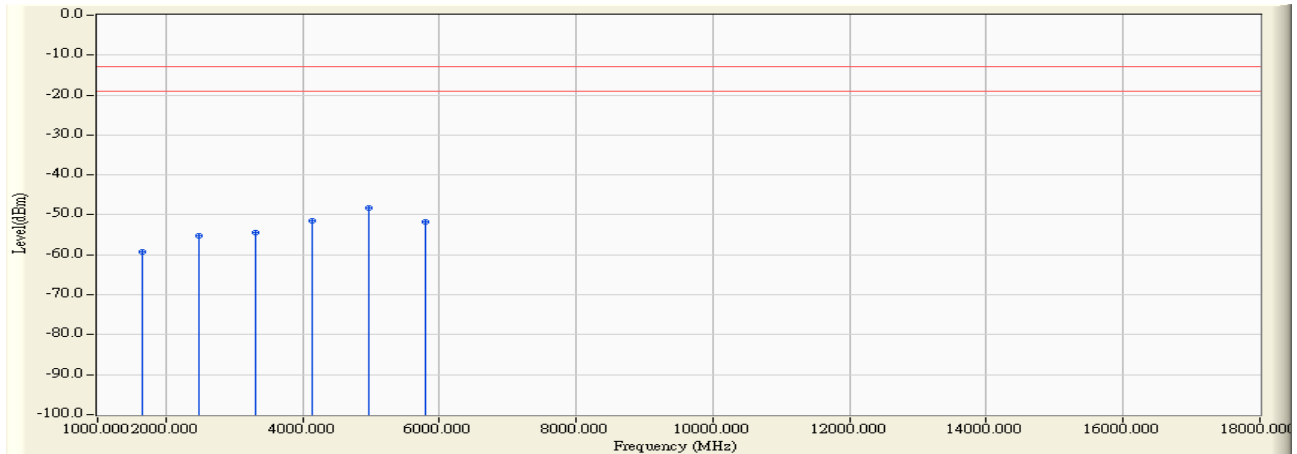


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1652.800	4.061	-64.120	-60.059	-47.059	-13.000	PEAK
2		1652.800	4.061	-64.110	-60.049	-47.049	-13.000	PEAK
3		2479.200	8.843	-65.230	-56.386	-43.386	-13.000	PEAK
4		3305.600	11.148	-65.570	-54.422	-41.422	-13.000	PEAK
5		4132.000	12.483	-65.460	-52.976	-39.976	-13.000	PEAK
6	*	4958.400	15.292	-65.490	-50.198	-37.198	-13.000	PEAK
7		5784.800	14.194	-65.480	-51.286	-38.286	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 19:30
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 6: WCDMA Band 5_Idle Mode_ CH:4132

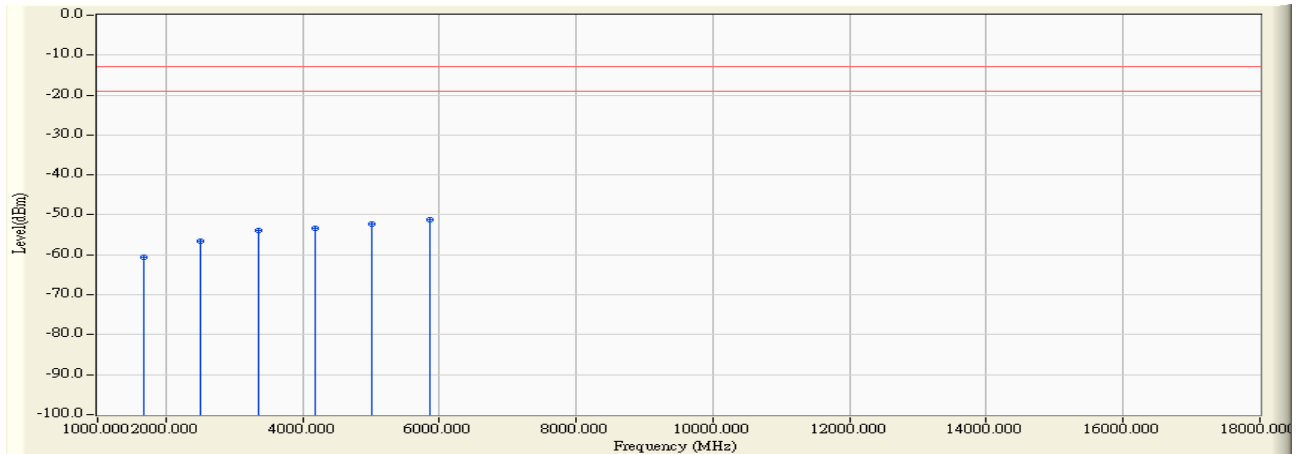


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1652.800	4.589	-63.880	-59.291	-46.291	-13.000	PEAK
2		2479.200	9.194	-64.460	-55.266	-42.266	-13.000	PEAK
3		3305.600	11.741	-66.160	-54.419	-41.419	-13.000	PEAK
4		4132.000	13.365	-64.960	-51.595	-38.595	-13.000	PEAK
5	*	4958.400	15.796	-64.050	-48.254	-35.254	-13.000	PEAK
6		5784.800	14.027	-65.870	-51.844	-38.844	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 20:36
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 6: WCDMA Band 5_Idle Mode_ CH:4183

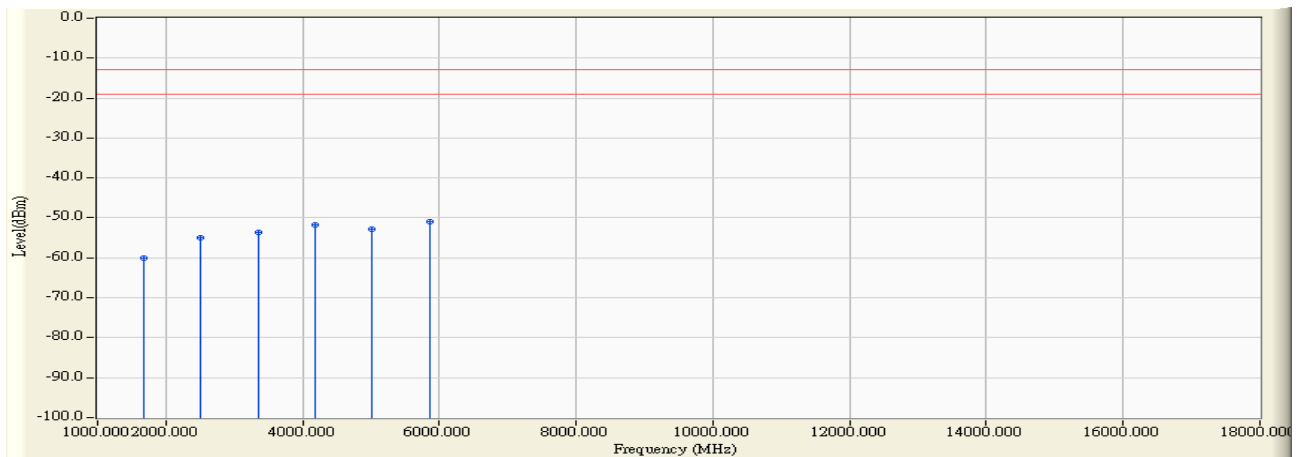


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.200	4.023	-64.560	-60.537	-47.537	-13.000	PEAK
2		2509.800	8.808	-65.380	-56.571	-43.571	-13.000	PEAK
3		3346.400	11.226	-65.080	-53.853	-40.853	-13.000	PEAK
4		4183.000	12.546	-65.920	-53.373	-40.373	-13.000	PEAK
5		5019.600	13.029	-65.330	-52.301	-39.301	-13.000	PEAK
6	*	5856.200	14.418	-65.600	-51.182	-38.182	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 20:35
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 6: WCDMA Band 5_Idle Mode_ CH:4183

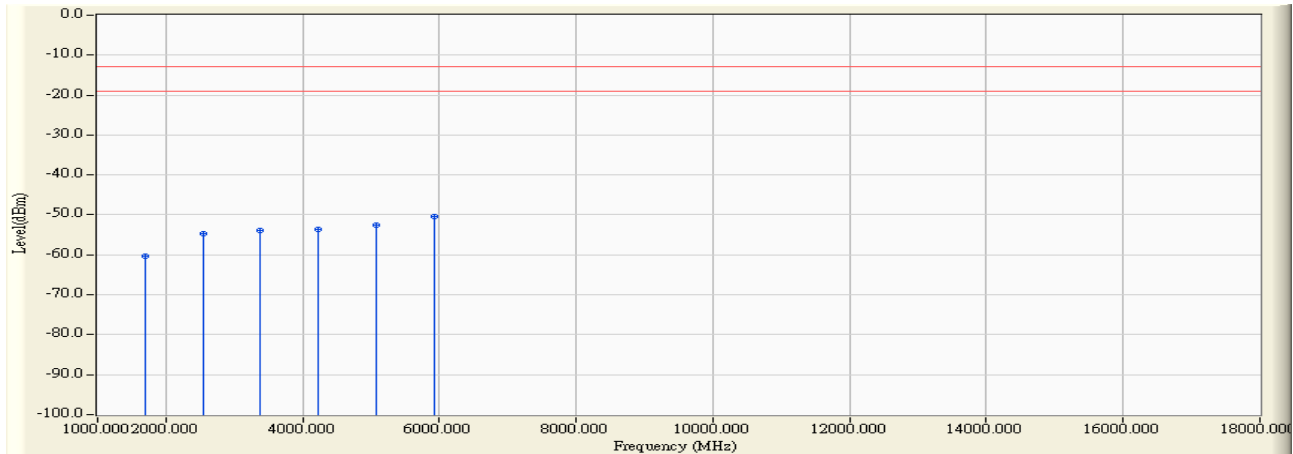


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.200	4.588	-64.530	-59.941	-46.941	-13.000	PEAK
2		2509.800	9.197	-64.140	-54.942	-41.942	-13.000	PEAK
3		3346.400	11.867	-65.580	-53.712	-40.712	-13.000	PEAK
4		4183.000	13.496	-65.190	-51.693	-38.693	-13.000	PEAK
5		5019.600	12.668	-65.610	-52.942	-39.942	-13.000	PEAK
6	*	5856.200	14.246	-65.070	-50.824	-37.824	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 20:22
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 6: WCDMA Band 5_Idle Mode_ CH:4233

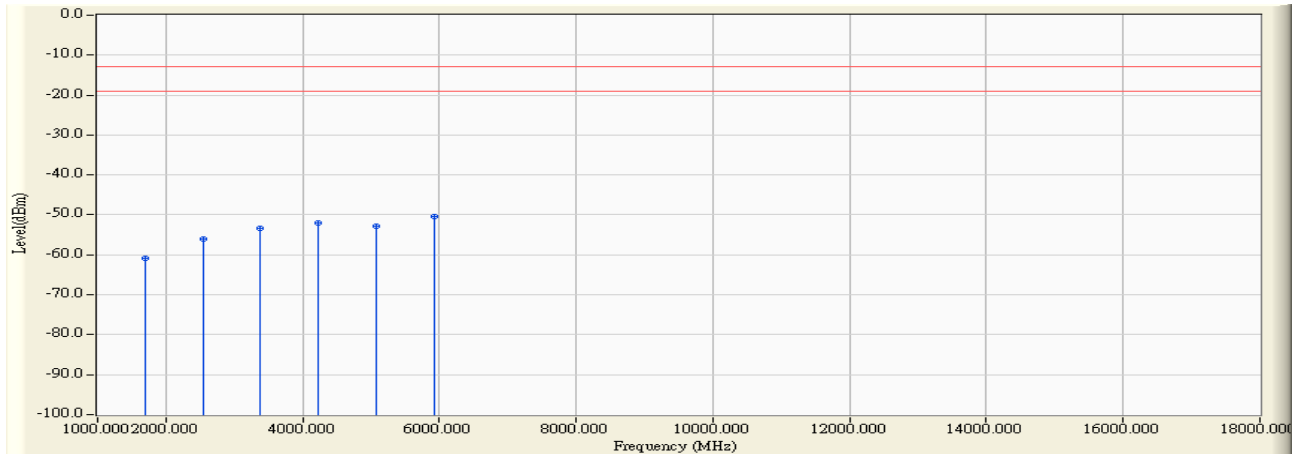


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1693.200	3.986	-64.280	-60.294	-47.294	-13.000	PEAK
2		2539.800	8.885	-63.560	-54.674	-41.674	-13.000	PEAK
3		3386.400	11.305	-65.150	-53.846	-40.846	-13.000	PEAK
4		4233.000	12.603	-66.250	-53.647	-40.647	-13.000	PEAK
5		5079.600	13.061	-65.680	-52.619	-39.619	-13.000	PEAK
6	*	5926.200	14.633	-65.090	-50.456	-37.456	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 20:20
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 6: WCDMA Band 5_Idle Mode_ CH:4233

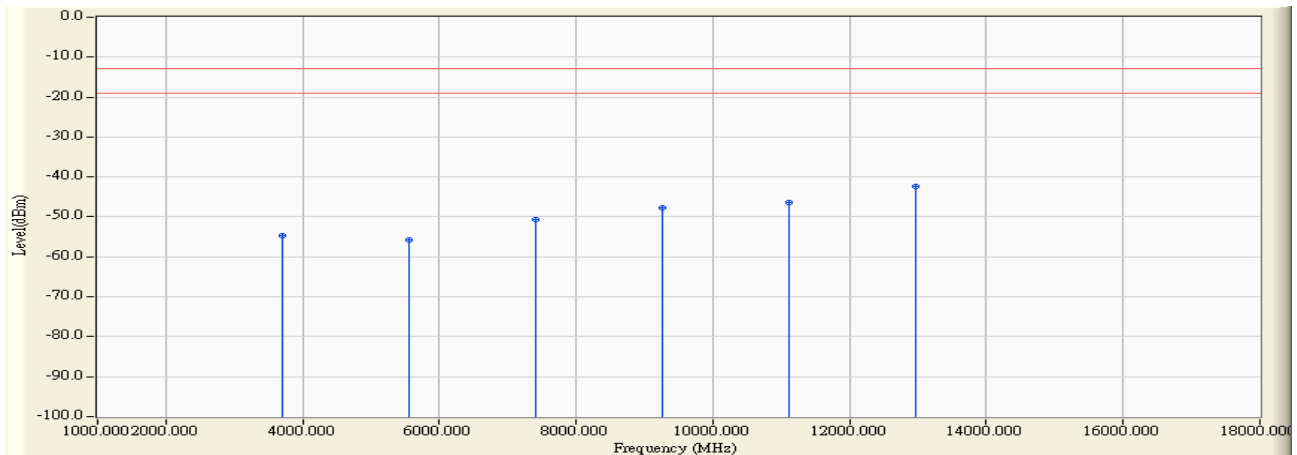


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1693.200	4.588	-65.570	-60.982	-47.982	-13.000	PEAK
2		2539.800	9.264	-65.430	-56.166	-43.166	-13.000	PEAK
3		3386.400	11.993	-65.290	-53.297	-40.297	-13.000	PEAK
4		4233.000	13.619	-65.510	-51.891	-38.891	-13.000	PEAK
5		5079.600	12.727	-65.460	-52.734	-39.734	-13.000	PEAK
6	*	5926.200	14.458	-64.980	-50.522	-37.522	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/28 - 18:13
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 7: WCDMA Band 2_Link Mode_ CH:9262

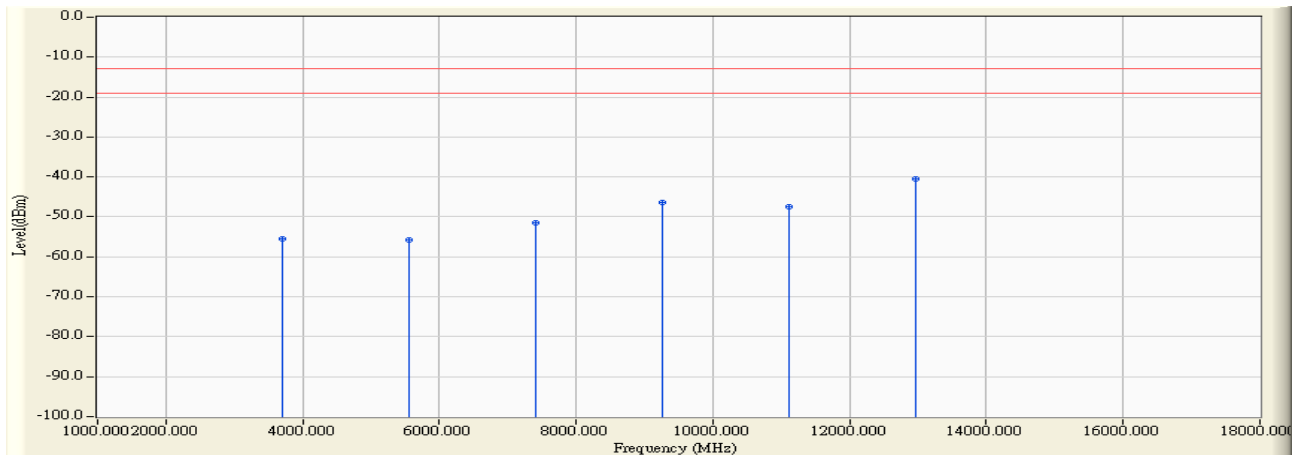


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3704.800	11.974	-66.700	-54.726	-41.726	-13.000	PEAK
2		5557.200	13.467	-69.130	-55.663	-42.663	-13.000	PEAK
3		7409.600	19.429	-70.170	-50.742	-37.742	-13.000	PEAK
4		9262.000	22.839	-70.490	-47.652	-34.652	-13.000	PEAK
5		11114.400	25.829	-72.160	-46.331	-33.331	-13.000	PEAK
6	*	12966.800	30.488	-72.930	-42.442	-29.442	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 17:44
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 7: WCDMA Band 2_Link Mode_ CH:9262

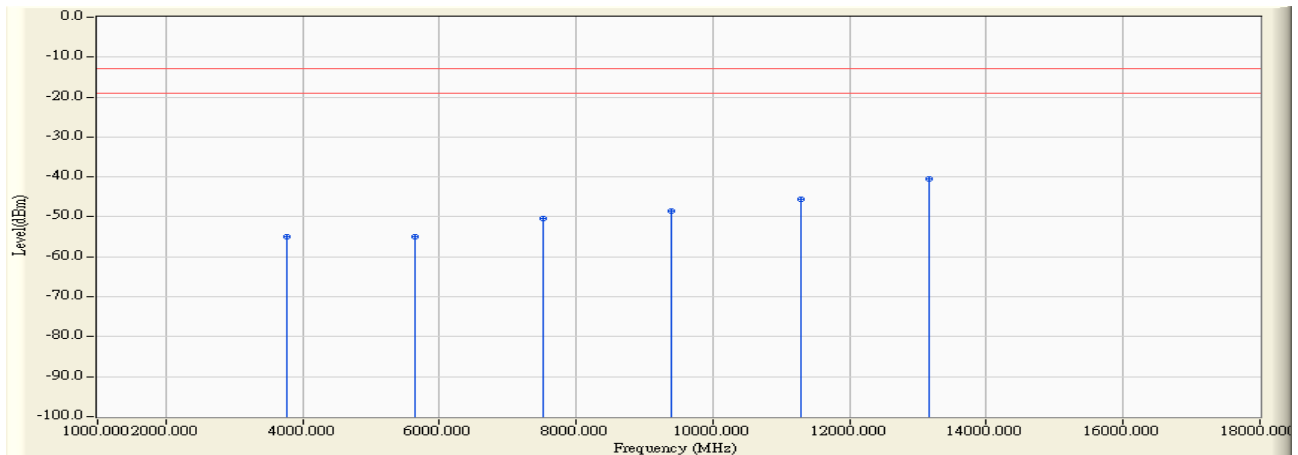


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3704.800	12.775	-68.200	-55.425	-42.425	-13.000	PEAK
2		5557.200	13.313	-69.080	-55.767	-42.767	-13.000	PEAK
3		7409.600	19.243	-70.780	-51.537	-38.537	-13.000	PEAK
4		9262.000	24.110	-70.510	-46.400	-33.400	-13.000	PEAK
5		11114.400	24.740	-72.060	-47.321	-34.321	-13.000	PEAK
6	*	12966.800	31.674	-72.160	-40.486	-27.486	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 18:14
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 7: WCDMA Band 2_Link Mode_ CH:9400

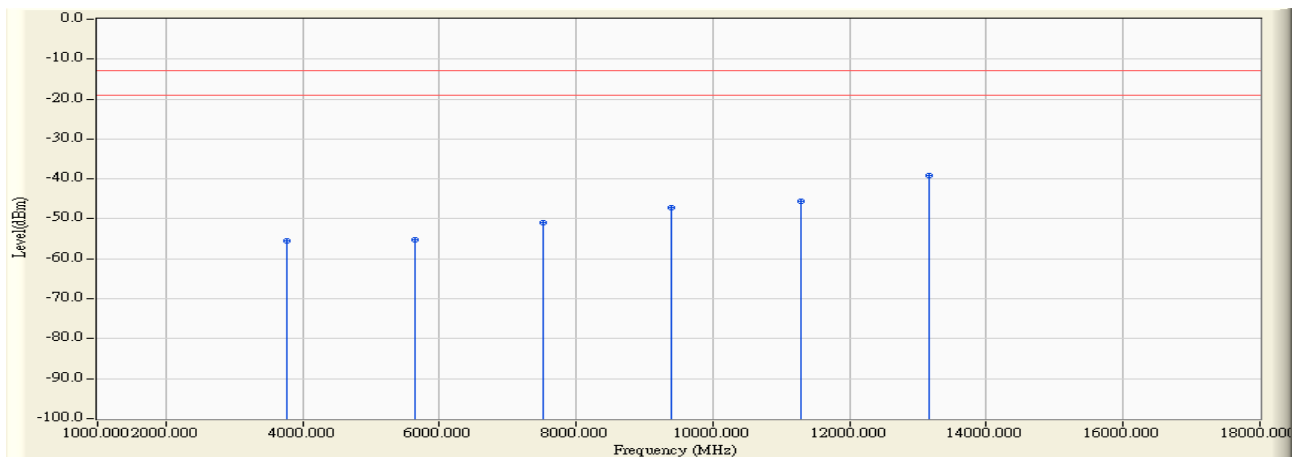


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	12.082	-67.150	-55.068	-42.068	-13.000	PEAK
2		5640.000	13.733	-68.790	-55.057	-42.057	-13.000	PEAK
3		7520.000	19.570	-69.910	-50.340	-37.340	-13.000	PEAK
4		9400.000	22.889	-71.440	-48.551	-35.551	-13.000	PEAK
5		11280.000	26.073	-71.540	-45.467	-32.467	-13.000	PEAK
6	*	13160.000	30.816	-71.390	-40.574	-27.574	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 18:21
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 7: WCDMA Band 2_Link Mode_ CH:9400

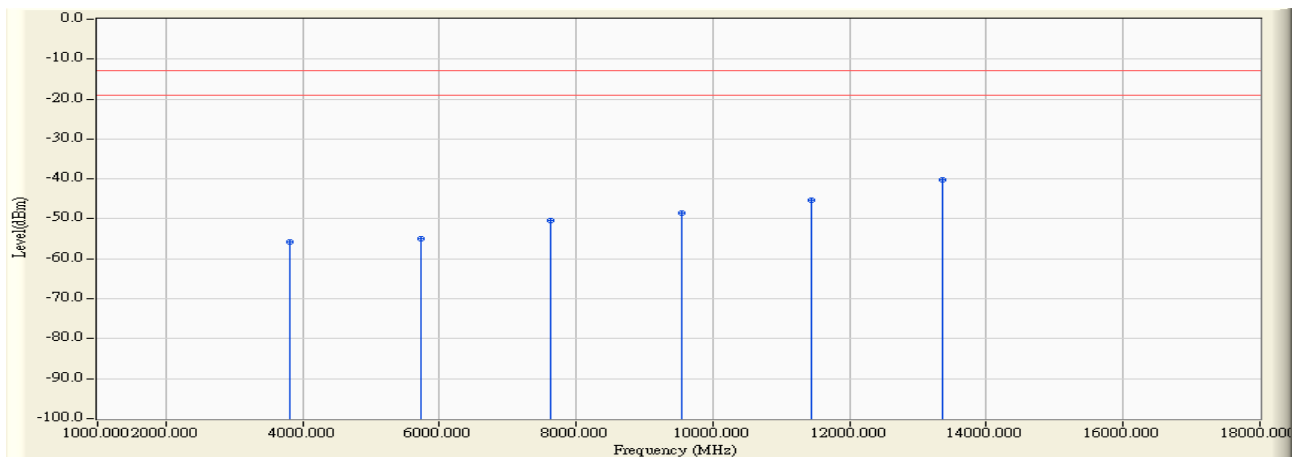


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	12.874	-68.410	-55.536	-42.536	-13.000	PEAK
2		5640.000	13.575	-68.760	-55.185	-42.185	-13.000	PEAK
3		7520.000	19.656	-70.520	-50.864	-37.864	-13.000	PEAK
4		9400.000	24.351	-71.420	-47.069	-34.069	-13.000	PEAK
5		11280.000	25.447	-70.930	-45.483	-32.483	-13.000	PEAK
6	*	13160.000	32.136	-71.390	-39.254	-26.254	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 18:41
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 7: WCDMA Band 2_Link Mode_ CH:9538

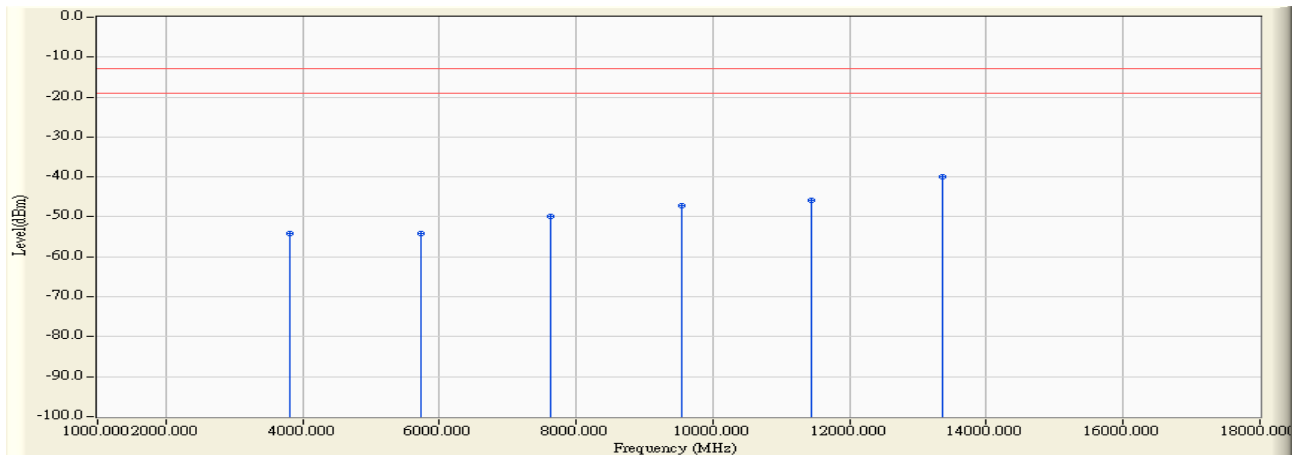


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3815.200	12.141	-67.820	-55.679	-42.679	-13.000	PEAK
2		5722.800	13.997	-68.890	-54.893	-41.893	-13.000	PEAK
3		7630.400	19.946	-70.370	-50.424	-37.424	-13.000	PEAK
4		9538.000	22.975	-71.380	-48.404	-35.404	-13.000	PEAK
5		11445.600	26.436	-71.710	-45.274	-32.274	-13.000	PEAK
6	*	13353.200	31.047	-71.310	-40.263	-27.263	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 18:48
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 7: WCDMA Band 2_Link Mode_ CH:9538

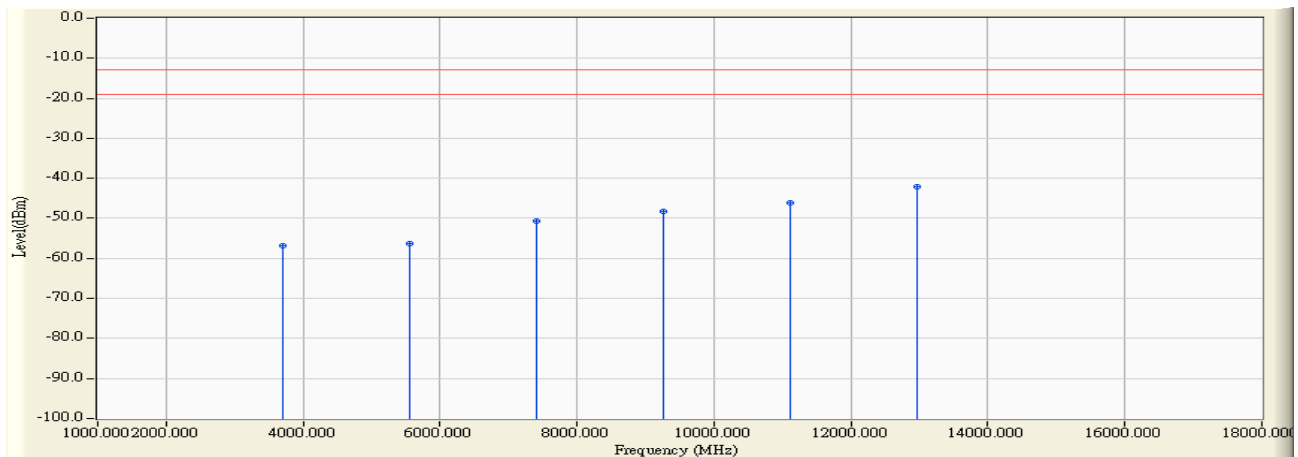


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3815.200	12.913	-67.160	-54.247	-41.247	-13.000	PEAK
2		5722.800	13.834	-68.080	-54.246	-41.246	-13.000	PEAK
3		7630.400	19.842	-69.730	-49.888	-36.888	-13.000	PEAK
4		9538.000	24.512	-71.570	-47.057	-34.057	-13.000	PEAK
5		11445.600	26.273	-72.140	-45.866	-32.866	-13.000	PEAK
6	*	13353.200	32.571	-72.470	-39.898	-26.898	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 17:59
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 8: WCDMA Band 2_Idle Mode_ CH:9262

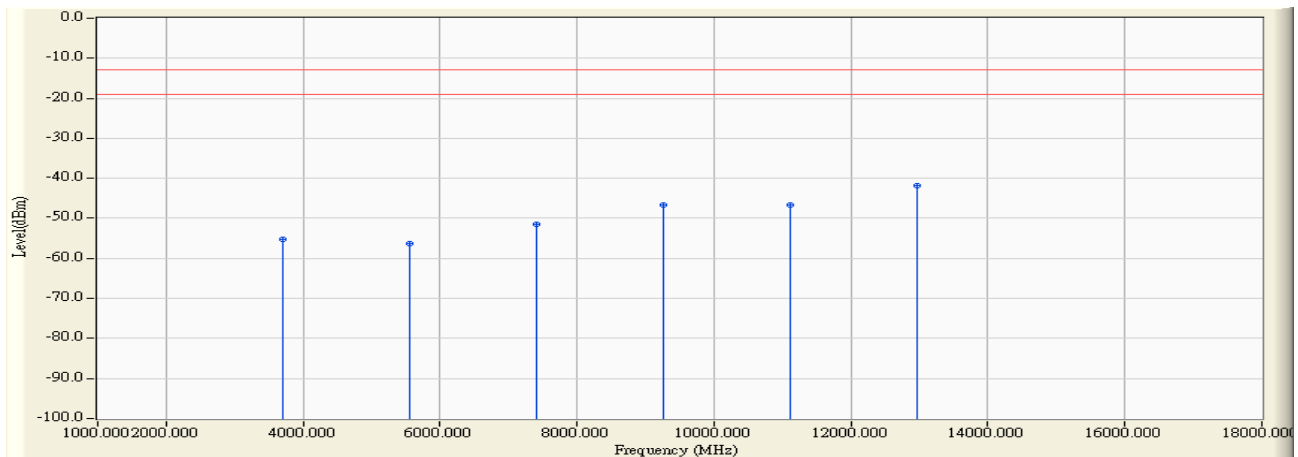


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3704.800	11.974	-68.940	-56.966	-43.966	-13.000	PEAK
2		5557.200	13.467	-69.770	-56.303	-43.303	-13.000	PEAK
3		7409.600	19.429	-70.200	-50.772	-37.772	-13.000	PEAK
4		9262.000	22.839	-71.160	-48.322	-35.322	-13.000	PEAK
5		11114.400	25.829	-71.910	-46.081	-33.081	-13.000	PEAK
6	*	12966.800	30.488	-72.470	-41.982	-28.982	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 17:48
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 8: WCDMA Band 2_Idle Mode_ CH:9262

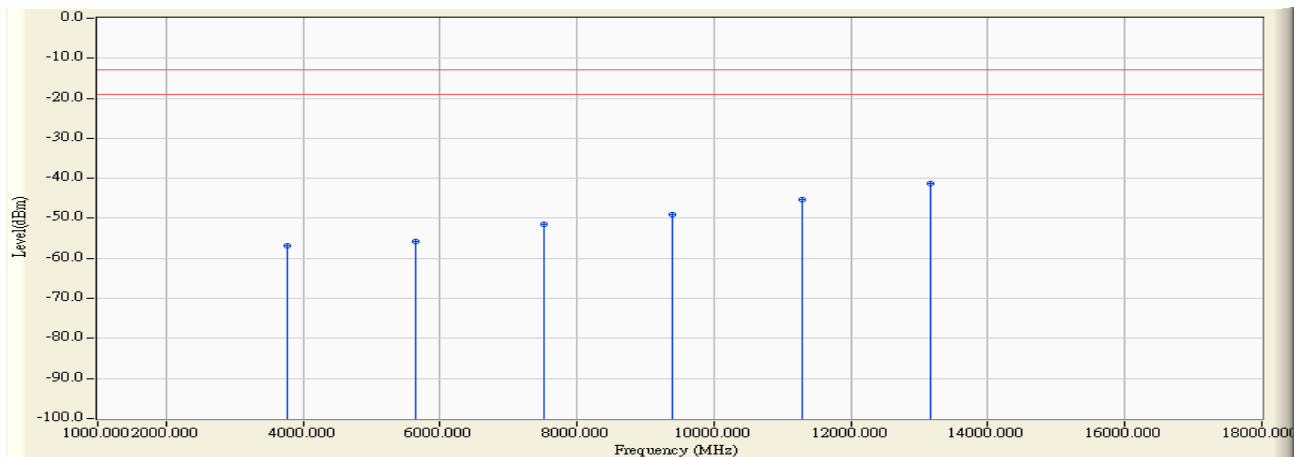


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3704.800	12.775	-68.050	-55.275	-42.275	-13.000	PEAK
2		5557.200	13.313	-69.720	-56.407	-43.407	-13.000	PEAK
3		7409.600	19.243	-70.760	-51.517	-38.517	-13.000	PEAK
4		9262.000	24.110	-70.730	-46.620	-33.620	-13.000	PEAK
5		11114.400	24.740	-71.320	-46.581	-33.581	-13.000	PEAK
6	*	12966.800	31.674	-73.420	-41.746	-28.746	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 18:29
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 8: WCDMA Band 2_Idle Mode_ CH:9400

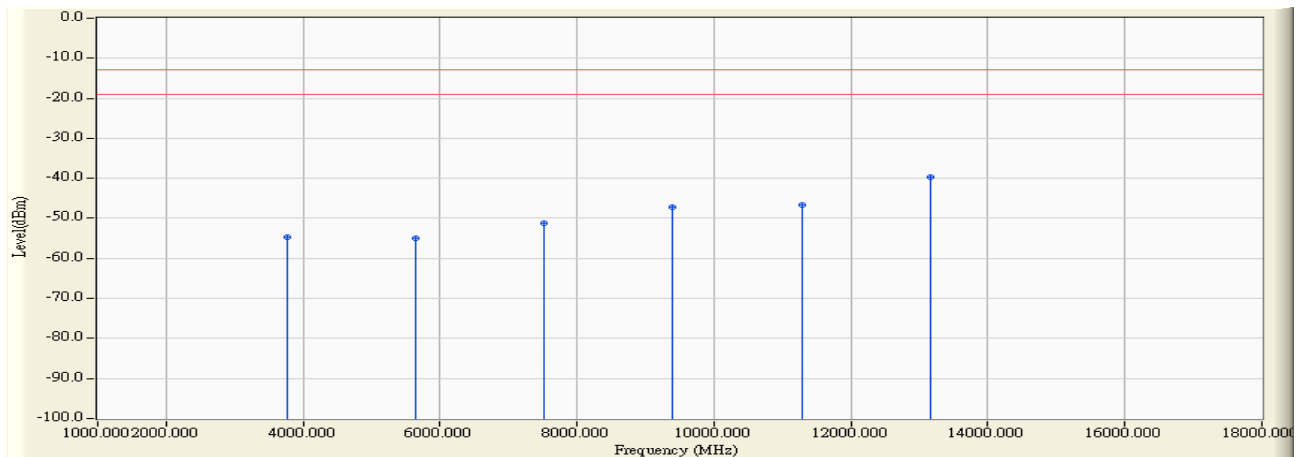


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	12.082	-68.870	-56.788	-43.788	-13.000	PEAK
2		5640.000	13.733	-69.410	-55.677	-42.677	-13.000	PEAK
3		7520.000	19.570	-71.010	-51.440	-38.440	-13.000	PEAK
4		9400.000	22.889	-72.070	-49.181	-36.181	-13.000	PEAK
5		11280.000	26.073	-71.370	-45.297	-32.297	-13.000	PEAK
6	*	13160.000	30.816	-72.230	-41.414	-28.414	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 18:26
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 8: WCDMA Band 2_Idle Mode_ CH:9400

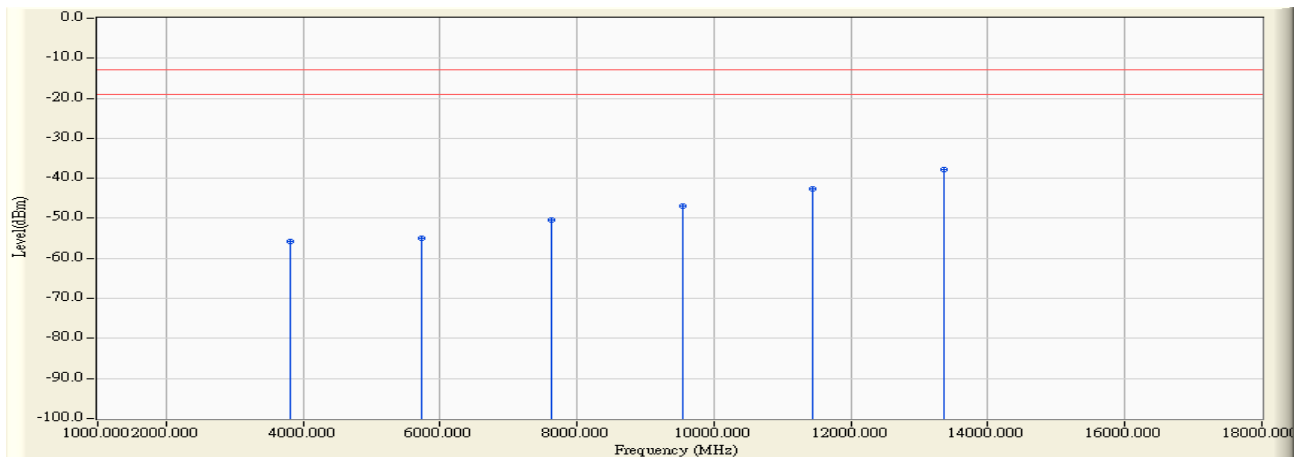


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	12.874	-67.670	-54.796	-41.796	-13.000	PEAK
2		5640.000	13.575	-68.580	-55.005	-42.005	-13.000	PEAK
3		7520.000	19.656	-70.790	-51.134	-38.134	-13.000	PEAK
4		9400.000	24.351	-71.570	-47.219	-34.219	-13.000	PEAK
5		11280.000	25.447	-72.030	-46.583	-33.583	-13.000	PEAK
6	*	13160.000	32.136	-71.680	-39.544	-26.544	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 18:56
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 8: WCDMA Band 2_Idle Mode_ CH:9538

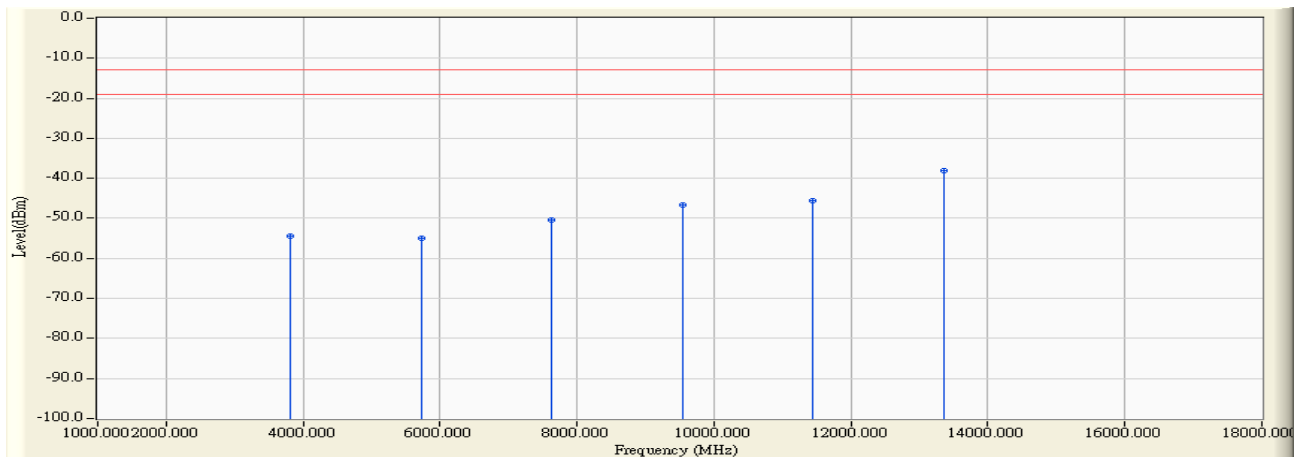


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3815.200	12.141	-68.000	-55.859	-42.859	-13.000	PEAK
2		5722.800	13.997	-69.000	-55.003	-42.003	-13.000	PEAK
3		7630.400	19.946	-70.380	-50.434	-37.434	-13.000	PEAK
4		9538.000	22.975	-69.900	-46.924	-33.924	-13.000	PEAK
5		11445.600	26.436	-68.930	-42.494	-29.494	-13.000	PEAK
6	*	13353.200	31.047	-68.770	-37.723	-24.723	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2016/11/30 - 18:51
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B432_1-18GHz_3M_1116 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 8: WCDMA Band 2_Idle Mode_ CH:9538

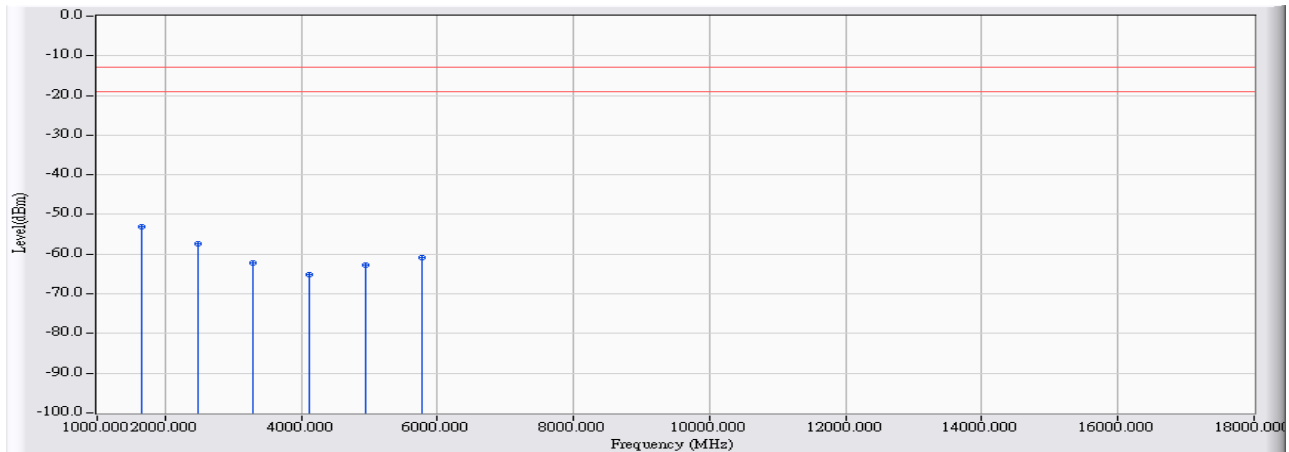


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3815.200	12.913	-67.410	-54.497	-41.497	-13.000	PEAK
2		5722.800	13.834	-68.800	-54.966	-41.966	-13.000	PEAK
3		7630.400	19.842	-70.150	-50.308	-37.308	-13.000	PEAK
4		9538.000	24.512	-71.090	-46.577	-33.577	-13.000	PEAK
5		11445.600	26.273	-71.840	-45.566	-32.566	-13.000	PEAK
6	*	13353.200	32.571	-70.760	-38.188	-25.188	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 19:17
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 9: GSM_EGPRS 850_Link Mode_ 824.2

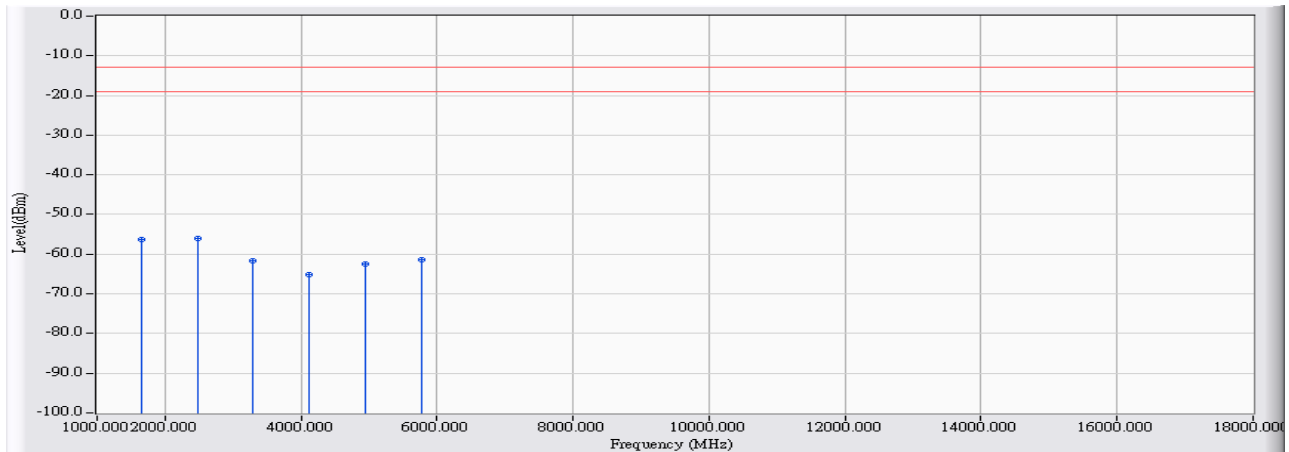


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	1648.400	-2.406	-50.630	-53.037	-40.037	-13.000	PEAK
2		2472.600	-0.225	-57.260	-57.486	-44.486	-13.000	PEAK
3		3296.600	1.942	-64.260	-62.319	-49.319	-13.000	PEAK
4		4121.000	3.088	-68.150	-65.062	-52.062	-13.000	PEAK
5		4945.200	5.514	-68.200	-62.685	-49.685	-13.000	PEAK
6		5769.400	7.301	-68.190	-60.890	-47.890	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 19:22
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 9: GSM_EGPRS 850_Link Mode_ 824.2

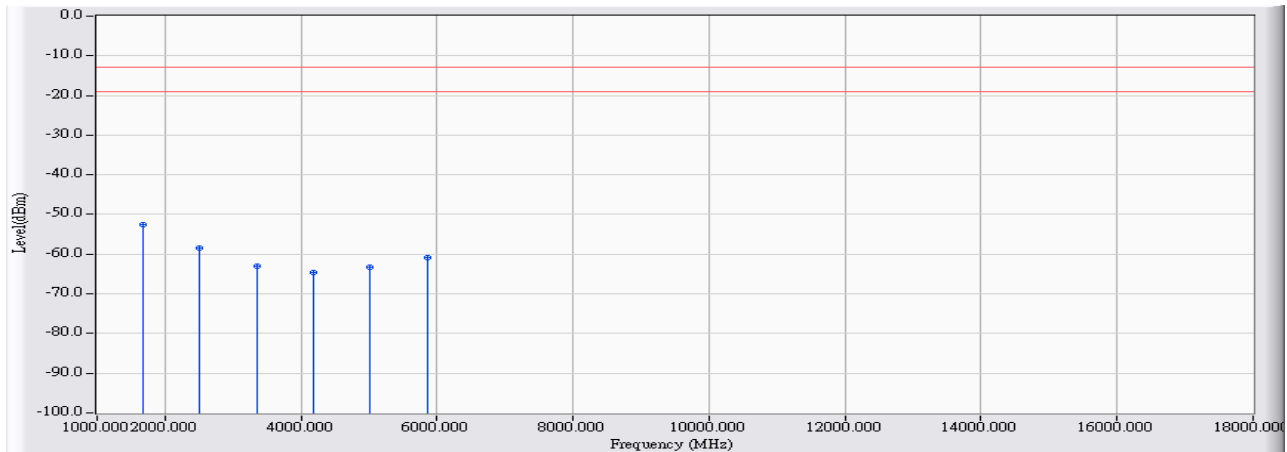


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1648.400	-2.894	-53.300	-56.194	-43.194	-13.000	PEAK
2	*	2472.600	-0.252	-55.850	-56.102	-43.102	-13.000	PEAK
3		3296.800	1.763	-63.520	-61.758	-48.758	-13.000	PEAK
4		4121.000	2.779	-68.000	-65.222	-52.222	-13.000	PEAK
5		4945.200	5.306	-67.740	-62.434	-49.434	-13.000	PEAK
6		5769.400	6.993	-68.480	-61.487	-48.487	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 19:28
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 9: GSM_EGPRS 850_Link Mode_ 836.6

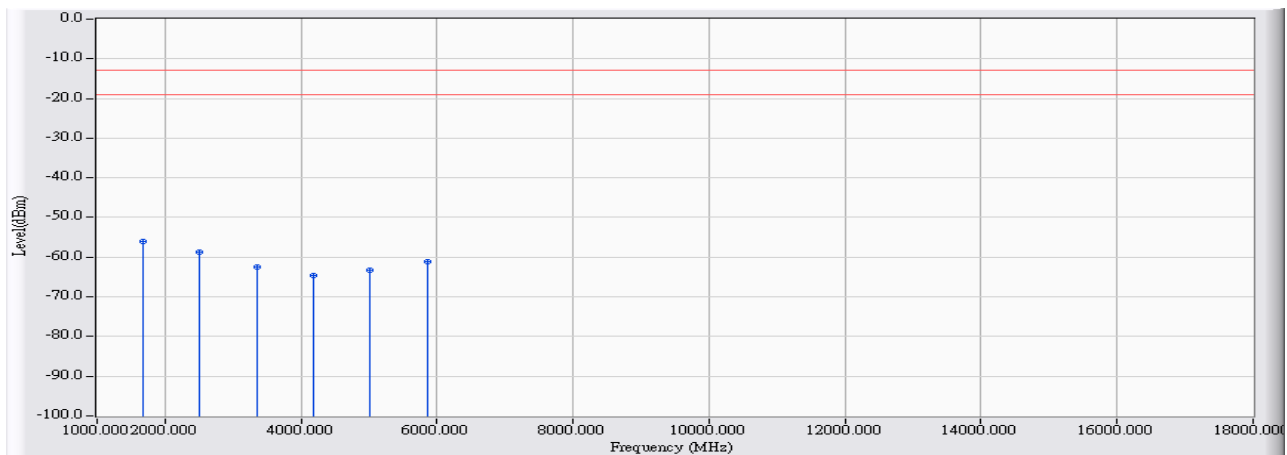


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	1673.200	-2.587	-50.050	-52.637	-39.637	-13.000	PEAK
2		2509.800	-0.270	-58.170	-58.440	-45.440	-13.000	PEAK
3		3346.400	2.000	-65.000	-63.000	-50.000	-13.000	PEAK
4		4183.000	3.290	-67.900	-64.610	-51.610	-13.000	PEAK
5		5019.600	5.746	-69.060	-63.314	-50.314	-13.000	PEAK
6		5856.200	7.429	-68.230	-60.801	-47.801	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 19:34
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 9: GSM_EGPRS 850_Link Mode_ 836.6

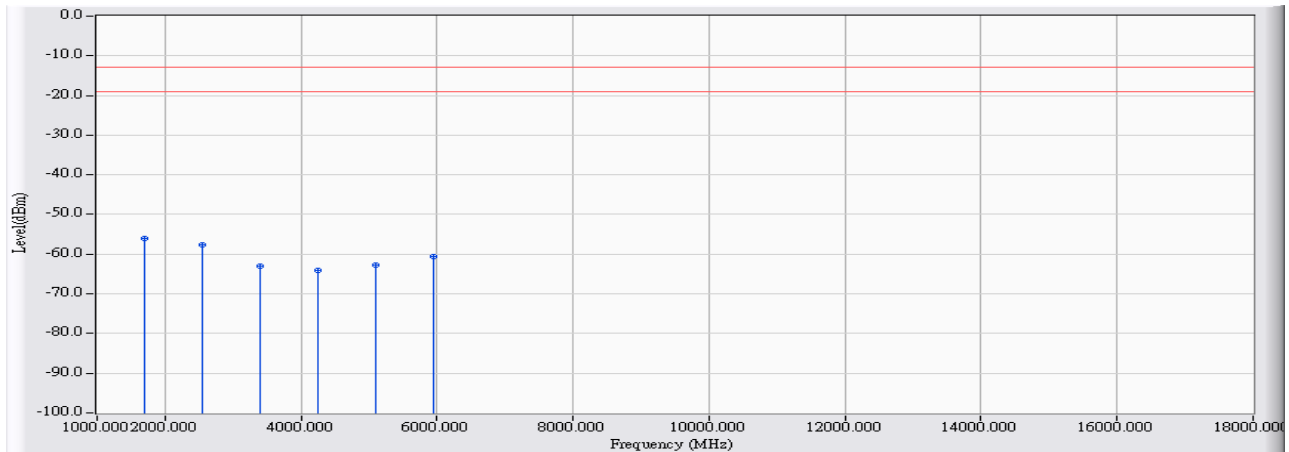


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	1673.200	-3.050	-53.070	-56.120	-43.120	-13.000	PEAK
2		2509.800	-0.311	-58.520	-58.831	-45.831	-13.000	PEAK
3		3346.400	1.797	-64.260	-62.463	-49.463	-13.000	PEAK
4		4183.000	2.966	-67.600	-64.634	-51.634	-13.000	PEAK
5		5019.600	5.503	-68.800	-63.297	-50.297	-13.000	PEAK
6		5856.200	7.147	-68.260	-61.113	-48.113	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 19:41
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 9: GSM_EGPRS 850_Link Mode_ 848.8

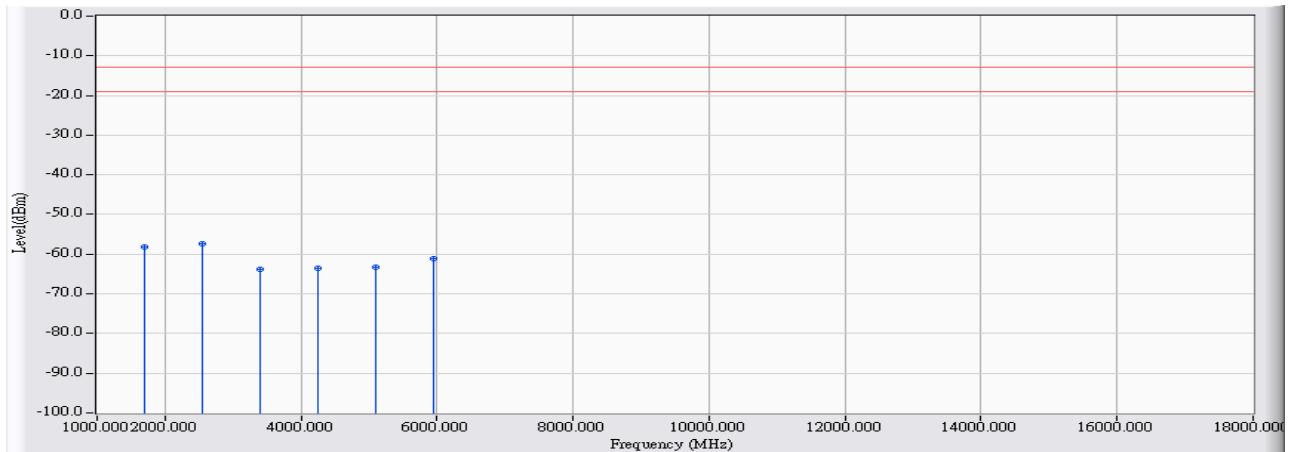


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1	*	1697.600	-2.764	-53.390	-56.154	-43.154	-13.000	PEAK
2		2546.400	-0.096	-57.510	-57.606	-44.606	-13.000	PEAK
3		3395.200	2.058	-65.160	-63.103	-50.103	-13.000	PEAK
4		4244.000	3.488	-67.520	-64.032	-51.032	-13.000	PEAK
5		5092.800	5.687	-68.460	-62.773	-49.773	-13.000	PEAK
6		5941.600	7.555	-68.110	-60.555	-47.555	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 19:46
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 9: GSM_EGPRS 850_Link Mode_ 848.8

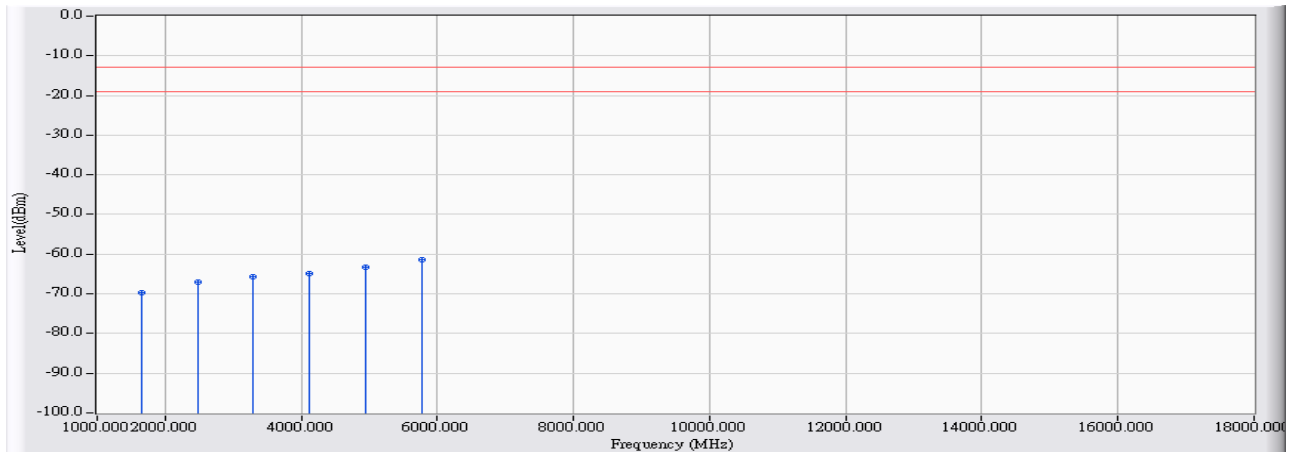


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1697.600	-3.203	-54.910	-58.113	-45.113	-13.000	PEAK
2	*	2546.400	-0.163	-57.230	-57.394	-44.394	-13.000	PEAK
3		3395.200	1.831	-65.690	-63.860	-50.860	-13.000	PEAK
4		4244.000	3.151	-66.690	-63.539	-50.539	-13.000	PEAK
5		5092.800	5.430	-68.590	-63.159	-50.159	-13.000	PEAK
6		5941.600	7.298	-68.500	-61.202	-48.202	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:31
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 10: GSM_EGPRS 850_Idle Mode_ 824.2

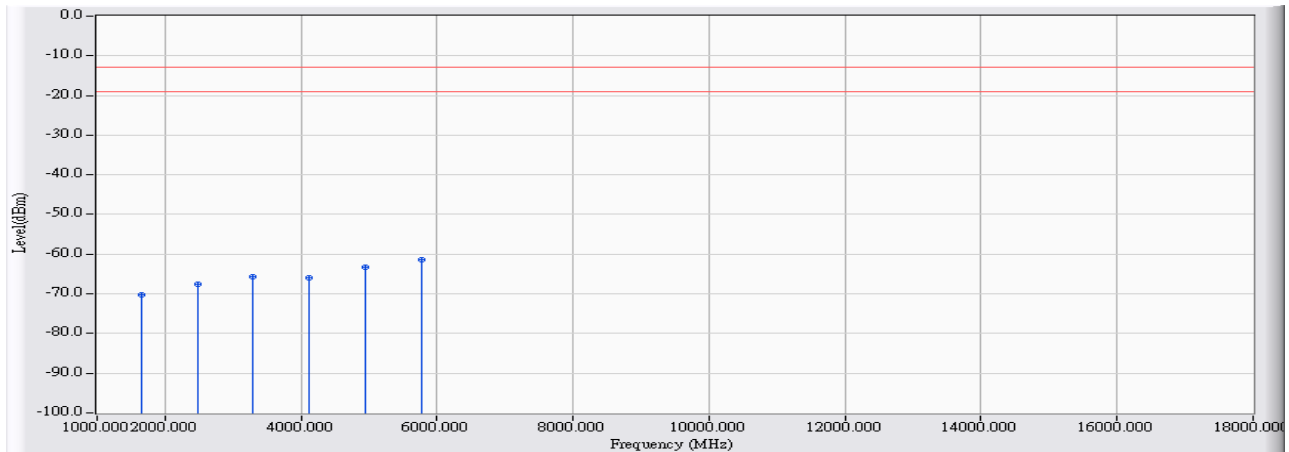


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1648.400	-2.406	-67.230	-69.637	-56.637	-13.000	PEAK
2		2472.600	-0.225	-66.690	-66.916	-53.916	-13.000	PEAK
3		3296.800	1.942	-67.560	-65.619	-52.619	-13.000	PEAK
4		4121.000	3.088	-68.010	-64.922	-51.922	-13.000	PEAK
5		4945.200	5.514	-68.770	-63.255	-50.255	-13.000	PEAK
6	*	5769.400	7.301	-68.810	-61.510	-48.510	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:32
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 10: GSM_EGPRS 850_Idle Mode_ 824.2

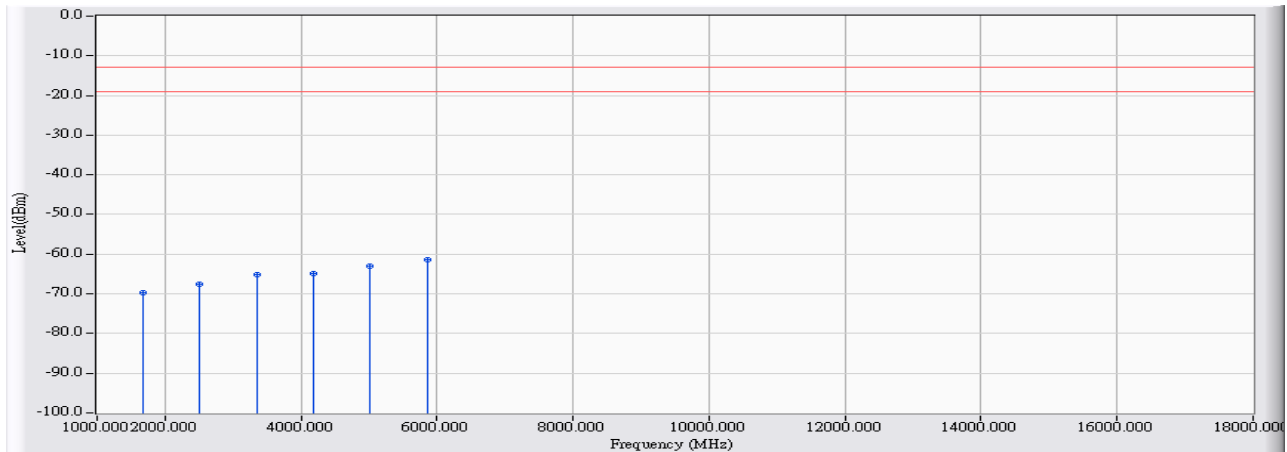


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1648.400	-2.894	-67.300	-70.194	-57.194	-13.000	PEAK
2		2472.600	-0.252	-67.260	-67.512	-54.512	-13.000	PEAK
3		3296.800	1.763	-67.360	-65.598	-52.598	-13.000	PEAK
4		4121.000	2.779	-68.730	-65.952	-52.952	-13.000	PEAK
5		4945.200	5.306	-68.710	-63.404	-50.404	-13.000	PEAK
6	*	5769.400	6.993	-68.310	-61.317	-48.317	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:35
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 10: GSM_EGPRS 850_Idle Mode_ 836.6

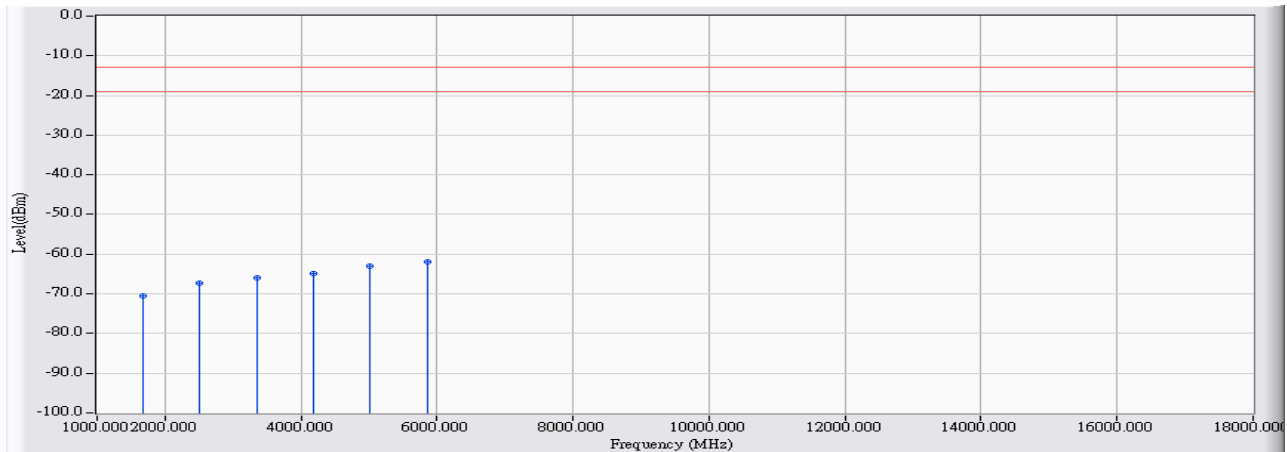


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.200	-2.587	-67.020	-69.607	-56.607	-13.000	PEAK
2		2509.800	-0.270	-67.230	-67.500	-54.500	-13.000	PEAK
3		3346.400	2.000	-67.250	-65.250	-52.250	-13.000	PEAK
4		4183.000	3.290	-68.110	-64.820	-51.820	-13.000	PEAK
5		5019.600	5.746	-68.820	-63.074	-50.074	-13.000	PEAK
6	*	5856.200	7.429	-68.920	-61.491	-48.491	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:35
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 10: GSM_EGPRS 850_Idle Mode_ 836.6

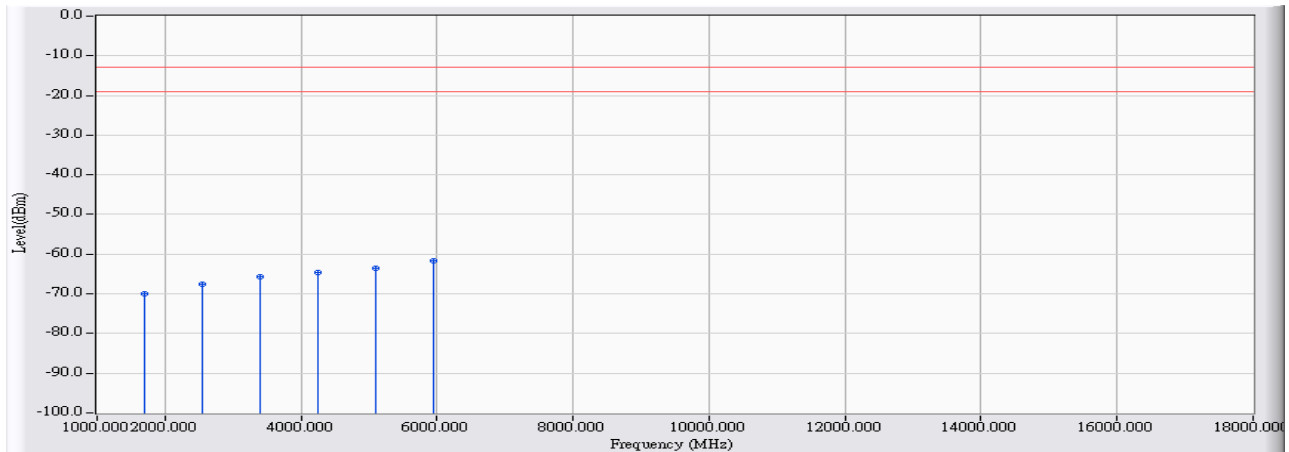


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1673.200	-3.050	-67.440	-70.490	-57.490	-13.000	PEAK
2		2509.800	-0.311	-67.060	-67.371	-54.371	-13.000	PEAK
3		3346.400	1.797	-67.680	-65.883	-52.883	-13.000	PEAK
4		4183.000	2.966	-67.920	-64.954	-51.954	-13.000	PEAK
5		5019.600	5.503	-68.520	-63.017	-50.017	-13.000	PEAK
6	*	5856.200	7.147	-68.980	-61.833	-48.833	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:37
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 10: GSM_EGPRS 850_Idle Mode_ 848.8

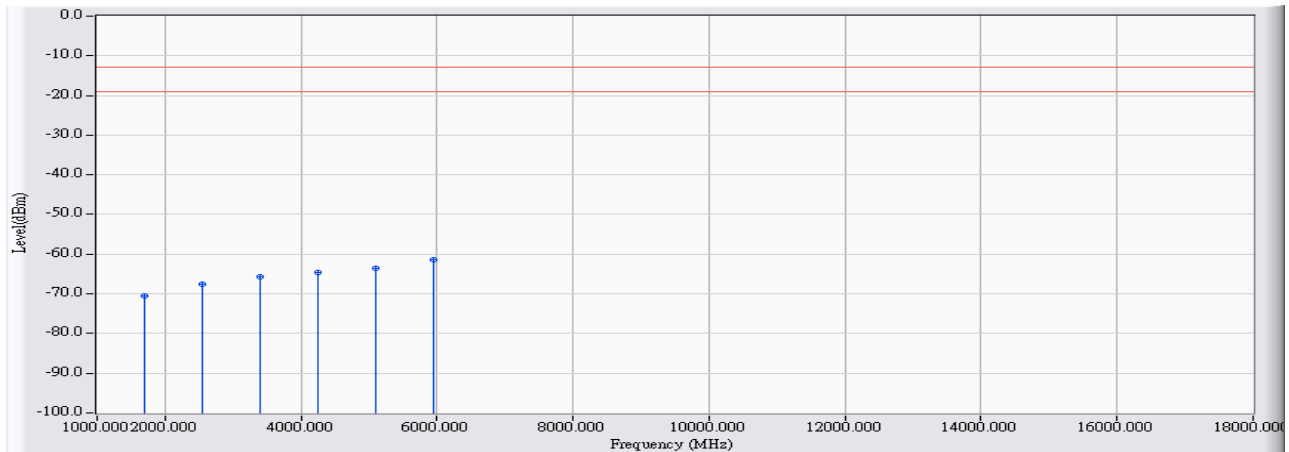


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1697.600	-2.764	-67.220	-69.984	-56.984	-13.000	PEAK
2		2546.400	-0.096	-67.370	-67.466	-54.466	-13.000	PEAK
3		3395.200	2.058	-67.780	-65.723	-52.723	-13.000	PEAK
4		4244.000	3.488	-68.060	-64.572	-51.572	-13.000	PEAK
5		5092.800	5.687	-69.250	-63.563	-50.563	-13.000	PEAK
6	*	5941.600	7.555	-69.240	-61.685	-48.685	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:39
Limit : FCC_PART22_850_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 10: GSM_EGPRS 850_Idle Mode_ 848.8

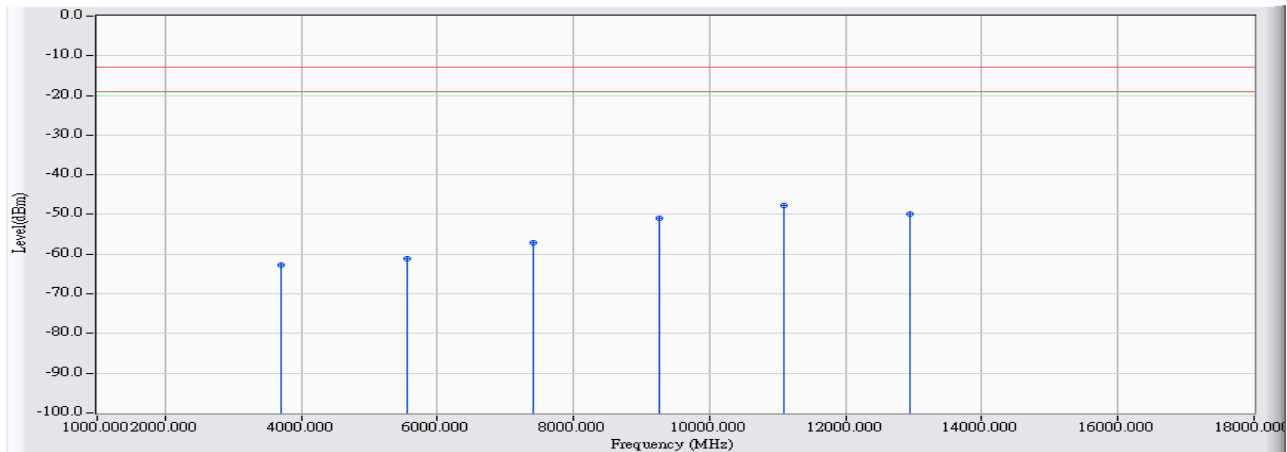


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		1697.600	-3.203	-67.240	-70.443	-57.443	-13.000	PEAK
2		2546.400	-0.163	-67.380	-67.544	-54.544	-13.000	PEAK
3		3395.200	1.831	-67.420	-65.590	-52.590	-13.000	PEAK
4		4244.000	3.151	-67.750	-64.599	-51.599	-13.000	PEAK
5		5092.800	5.430	-69.000	-63.569	-50.569	-13.000	PEAK
6	*	5941.600	7.298	-68.820	-61.522	-48.522	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:01
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 11: DCS_EGPRS 1900_Link Mode_ 1850.2

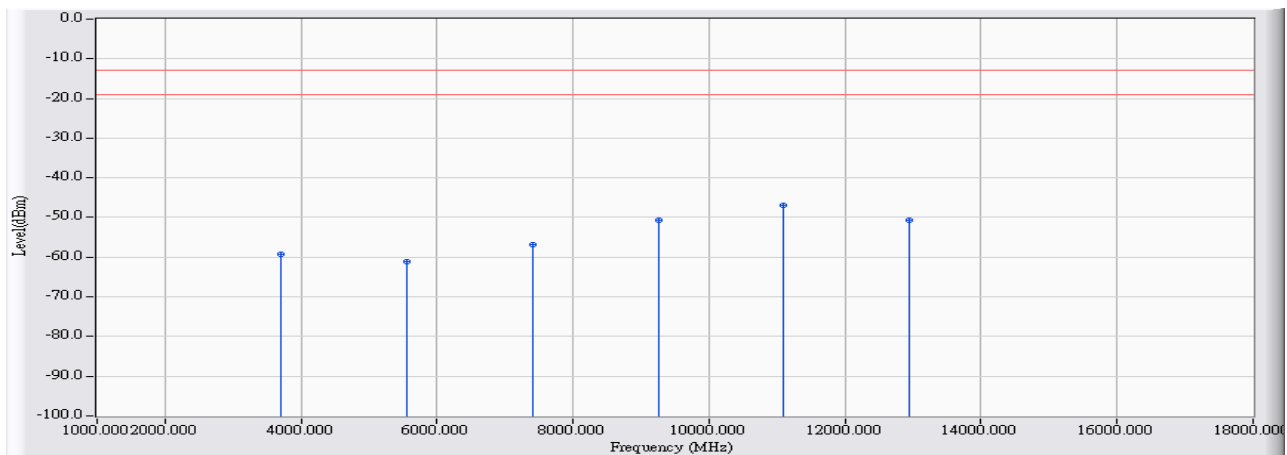


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3700.400	2.376	-65.140	-62.764	-49.764	-13.000	PEAK
2		5550.600	7.099	-68.250	-61.151	-48.151	-13.000	PEAK
3		7400.800	13.612	-70.730	-57.118	-44.118	-13.000	PEAK
4		9251.000	19.828	-70.700	-50.871	-37.871	-13.000	PEAK
5	*	11101.200	25.099	-72.950	-47.851	-34.851	-13.000	PEAK
6		12951.400	24.055	-73.920	-49.866	-36.866	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:01
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 11: DCS_EGPRS 1900_Link Mode_ 1850.2

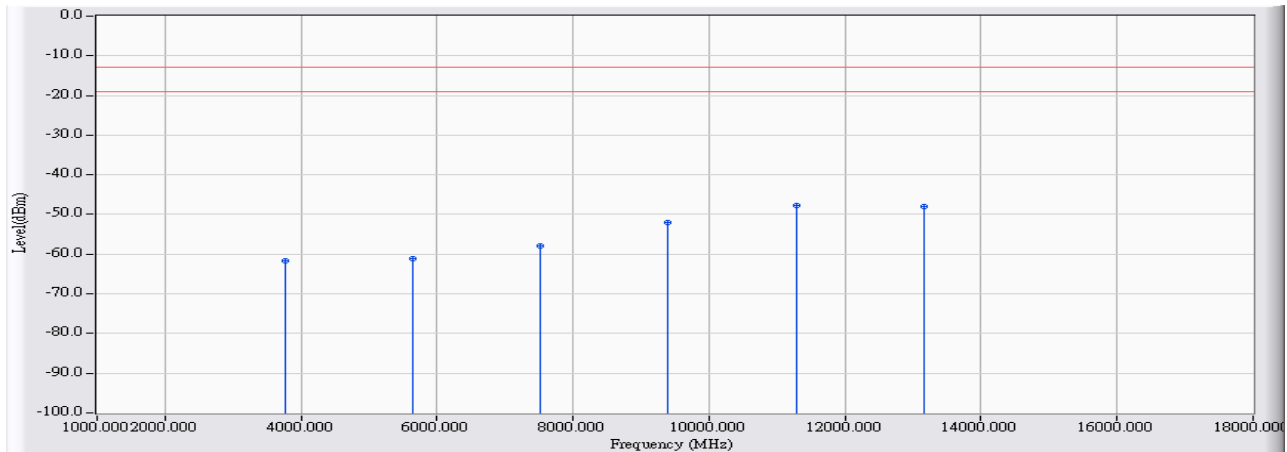


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3700.400	2.195	-61.360	-59.165	-46.165	-13.000	PEAK
2		5550.600	6.808	-68.000	-61.192	-48.192	-13.000	PEAK
3		7400.800	13.653	-70.490	-56.837	-43.837	-13.000	PEAK
4		9251.000	19.847	-70.560	-50.712	-37.712	-13.000	PEAK
5	*	11101.200	25.433	-72.280	-46.847	-33.847	-13.000	PEAK
6		12951.400	23.261	-74.030	-50.769	-37.769	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:07
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 11: DCS_EGPRS 1900_Link Mode_ 1880

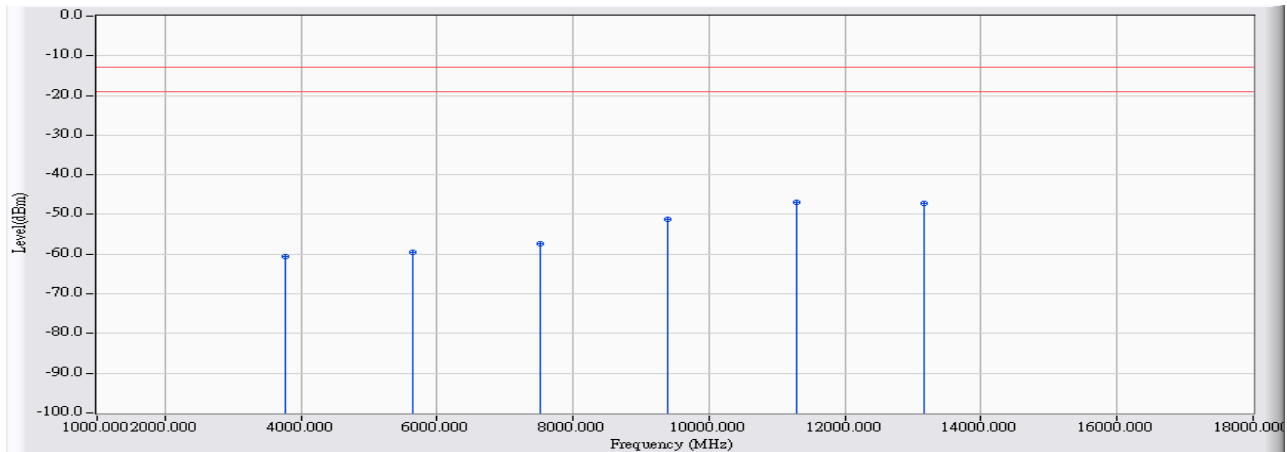


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	2.433	-64.040	-61.606	-48.606	-13.000	PEAK
2		5640.000	7.176	-68.310	-61.134	-48.134	-13.000	PEAK
3		7520.000	13.632	-71.550	-57.918	-44.918	-13.000	PEAK
4		9400.000	19.859	-72.000	-52.141	-39.141	-13.000	PEAK
5	*	11280.000	25.344	-73.120	-47.776	-34.776	-13.000	PEAK
6		13160.000	24.971	-72.860	-47.889	-34.889	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:14
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 11: DCS_EGPRS 1900_Link Mode_ 1880

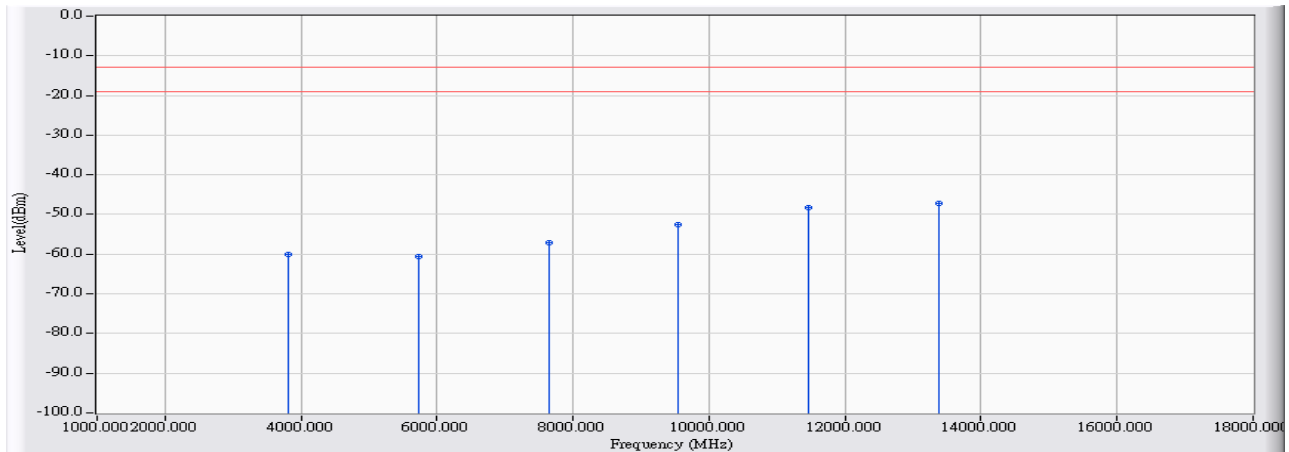


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	2.270	-62.740	-60.470	-47.470	-13.000	PEAK
2		5640.000	6.874	-66.270	-59.395	-46.395	-13.000	PEAK
3		7520.000	13.532	-70.780	-57.248	-44.248	-13.000	PEAK
4		9400.000	19.761	-70.960	-51.200	-38.200	-13.000	PEAK
5	*	11280.000	25.641	-72.670	-47.029	-34.029	-13.000	PEAK
6		13160.000	24.511	-71.710	-47.199	-34.199	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:20
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 11: DCS_EGPRS 1900_Link Mode_ 1909.8

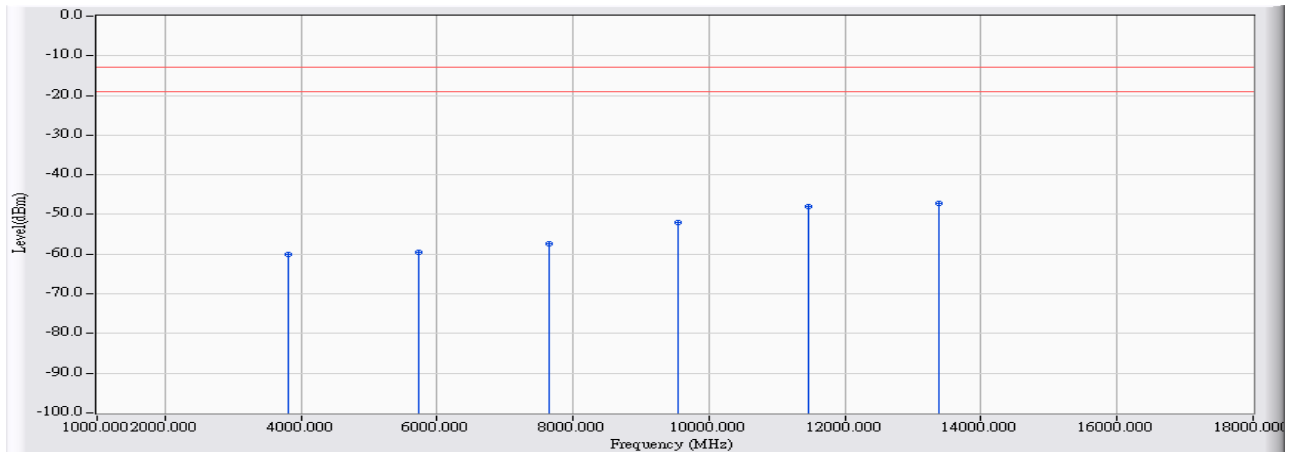


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3819.600	2.498	-62.590	-60.092	-47.092	-13.000	PEAK
2		5729.400	7.254	-67.860	-60.606	-47.606	-13.000	PEAK
3		7639.200	13.798	-71.000	-57.202	-44.202	-13.000	PEAK
4		9549.000	19.941	-72.420	-52.478	-39.478	-13.000	PEAK
5		11458.800	25.333	-73.710	-48.377	-35.377	-13.000	PEAK
6	*	13368.600	26.594	-73.650	-47.056	-34.056	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:26
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 11: DCS_EGPRS 1900_Link Mode_ 1909.8

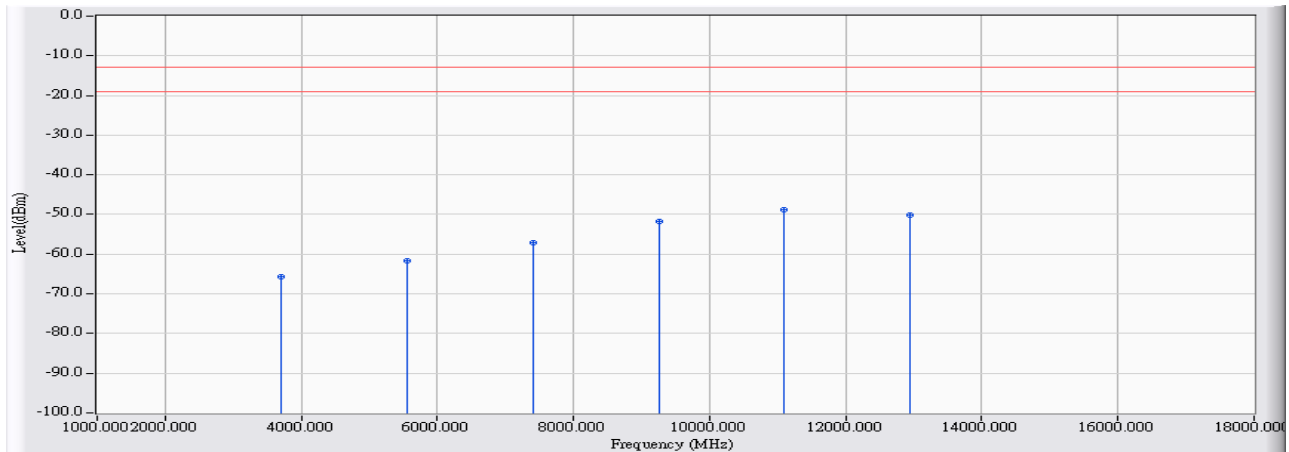


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3819.600	2.306	-62.420	-60.115	-47.115	-13.000	PEAK
2		5729.400	6.943	-66.500	-59.557	-46.557	-13.000	PEAK
3		7639.200	13.721	-71.180	-57.459	-44.459	-13.000	PEAK
4		9549.000	19.800	-71.680	-51.880	-38.880	-13.000	PEAK
5		11458.800	25.608	-73.600	-47.992	-34.992	-13.000	PEAK
6	*	13368.600	26.253	-73.520	-47.266	-34.266	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:41
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 12: DCS_EGPRS 1900_Idle Mode_1850.2

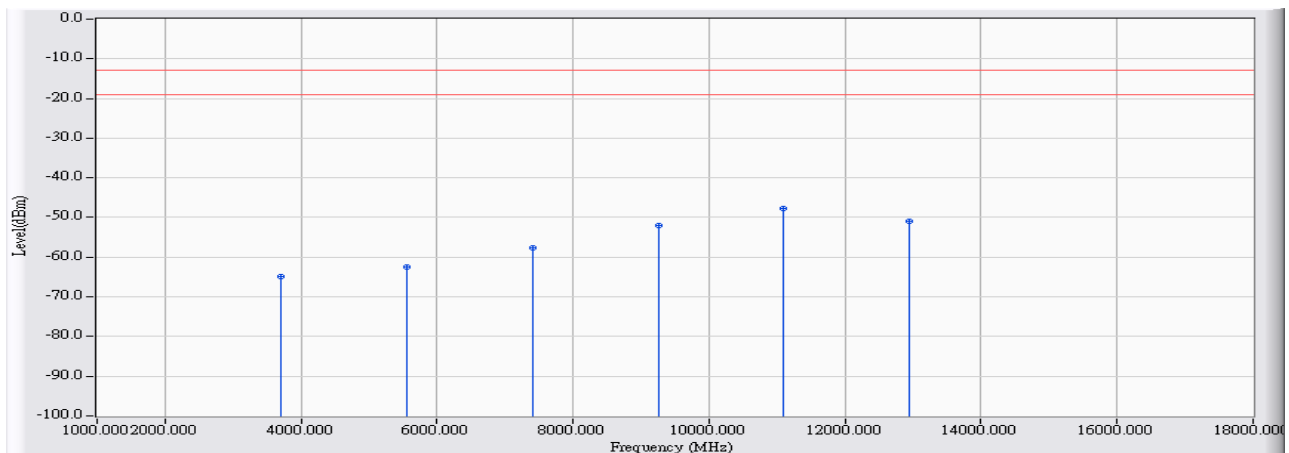


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3700.400	2.376	-68.160	-65.784	-52.784	-13.000	PEAK
2		5550.600	7.099	-68.740	-61.641	-48.641	-13.000	PEAK
3		7400.800	13.612	-70.590	-56.978	-43.978	-13.000	PEAK
4		9251.000	19.828	-71.620	-51.791	-38.791	-13.000	PEAK
5	*	11101.200	25.099	-73.880	-48.781	-35.781	-13.000	PEAK
6		12951.400	24.055	-74.130	-50.076	-37.076	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:42
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 12: DCS_EGPRS 1900_Idle Mode_1850.2

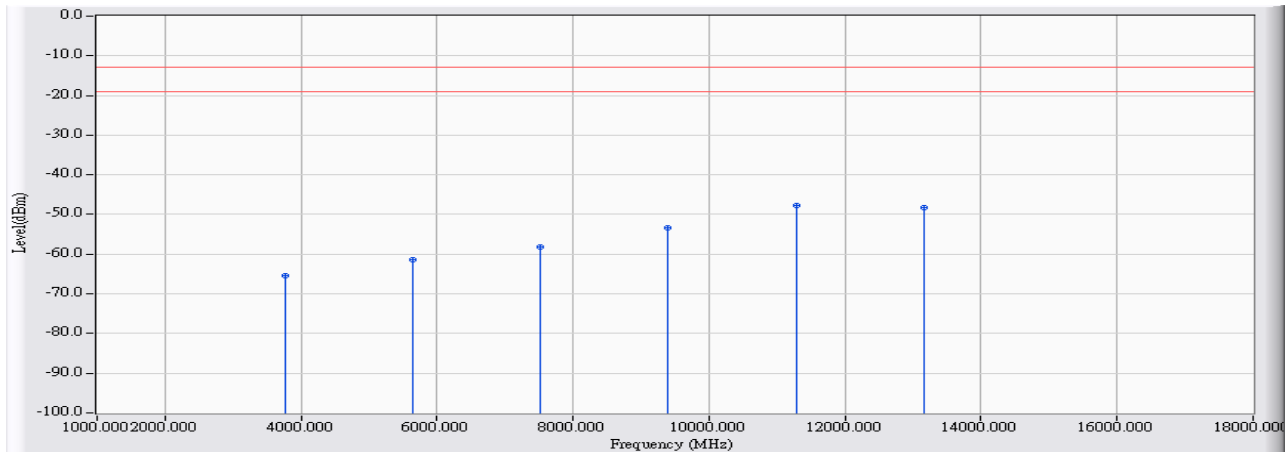


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3700.400	2.195	-67.190	-64.995	-51.995	-13.000	PEAK
2		5550.600	6.808	-69.210	-62.402	-49.402	-13.000	PEAK
3		7400.800	13.653	-71.290	-57.637	-44.637	-13.000	PEAK
4		9251.000	19.847	-71.930	-52.082	-39.082	-13.000	PEAK
5	*	11101.200	25.433	-73.080	-47.647	-34.647	-13.000	PEAK
6		12951.400	23.261	-74.130	-50.869	-37.869	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:43
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 12: DCS_EGPRS 1900_Idle Mode_1880

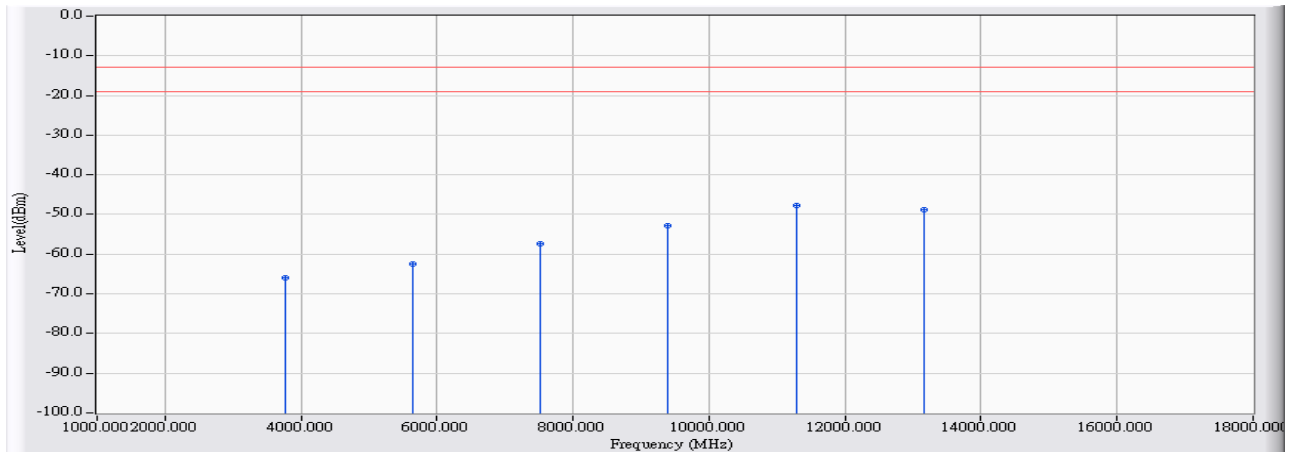


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	2.433	-67.850	-65.416	-52.416	-13.000	PEAK
2		5640.000	7.176	-68.530	-61.354	-48.354	-13.000	PEAK
3		7520.000	13.632	-71.810	-58.178	-45.178	-13.000	PEAK
4		9400.000	19.859	-73.240	-53.381	-40.381	-13.000	PEAK
5	*	11280.000	25.344	-73.090	-47.746	-34.746	-13.000	PEAK
6		13160.000	24.971	-73.140	-48.169	-35.169	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:44
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 12: DCS_EGPRS 1900_Idle Mode_1880

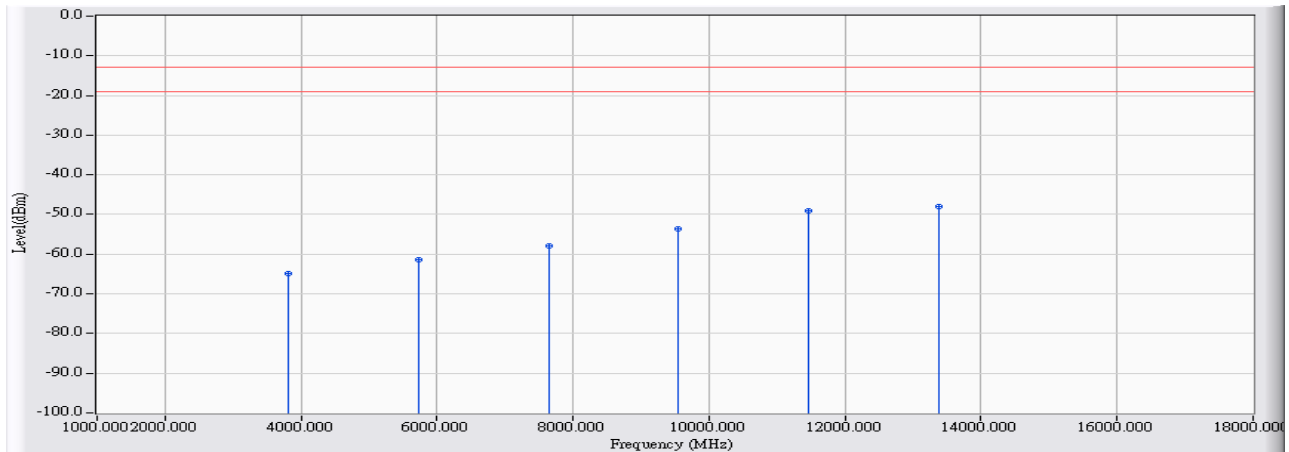


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3760.000	2.270	-68.330	-66.060	-53.060	-13.000	PEAK
2		5640.000	6.874	-69.410	-62.535	-49.535	-13.000	PEAK
3		7520.000	13.532	-70.870	-57.338	-44.338	-13.000	PEAK
4		9400.000	19.761	-72.590	-52.830	-39.830	-13.000	PEAK
5	*	11280.000	25.641	-73.440	-47.799	-34.799	-13.000	PEAK
6		13160.000	24.511	-73.180	-48.669	-35.669	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:46
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - HORIZONTAL	Power : DC 3.7V
EUT : Module	Note : Mode 12: DCS_EGPRS 1900_Idle Mode_1909.8

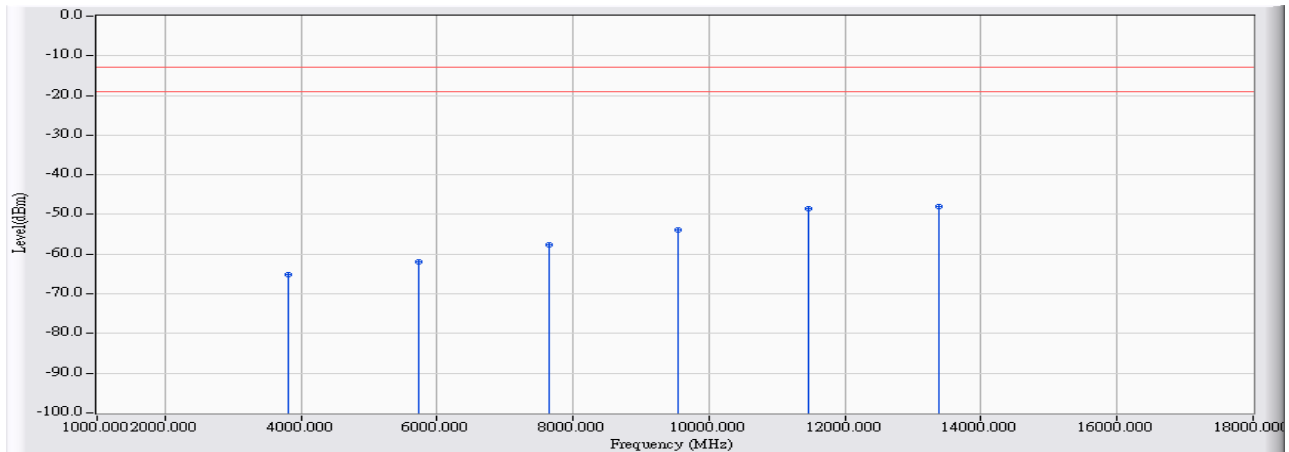


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3819.600	2.498	-67.500	-65.002	-52.002	-13.000	PEAK
2		5729.400	7.254	-68.720	-61.466	-48.466	-13.000	PEAK
3		7639.200	13.798	-71.680	-57.882	-44.882	-13.000	PEAK
4		9549.000	19.941	-73.430	-53.488	-40.488	-13.000	PEAK
5		11458.800	25.333	-74.450	-49.117	-36.117	-13.000	PEAK
6	*	13368.600	26.594	-74.590	-47.996	-34.996	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB4-H	Time : 2017/01/17 - 20:47
Limit : FCC_PART24_1900_00M_PK	Margin : 6
Probe : CB4-H_CE_Sub_B433_1-18GHz_3M_1216-2 - VERTICAL	Power : DC 3.7V
EUT : Module	Note : Mode 12: DCS_EGPRS 1900_Idle Mode_1909.8



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBm)	Measure Level (dBm)	Margin (dB)	Limit (dBm)	Detector Type
1		3819.600	2.306	-67.530	-65.225	-52.225	-13.000	PEAK
2		5729.400	6.943	-68.910	-61.967	-48.967	-13.000	PEAK
3		7639.200	13.721	-71.270	-57.549	-44.549	-13.000	PEAK
4		9549.000	19.800	-73.730	-53.930	-40.930	-13.000	PEAK
5		11458.800	25.608	-74.240	-48.632	-35.632	-13.000	PEAK
6	*	13368.600	26.253	-74.370	-48.116	-35.116	-13.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 1MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

7. Frequency Stability Under Temperature & Voltage Variations

7.1. Test Equipment

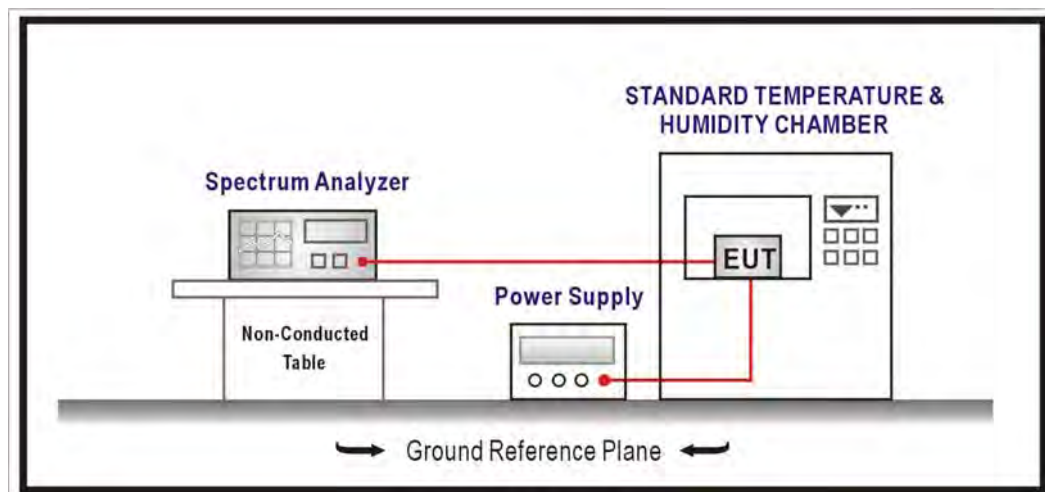
The following test equipments are used during the RF power output tests:

Frequency Stability Under Temperature & Voltage Variations/SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Signal & Spectrum Analyzer	R&S	FSV40	101049	2017/01/05
Multisystem UE Tester	Japan radio	NJZ-2000	ET00477	2017/09/19
Directional coupler	Agilent	778D-012	50550	2017/01/06
Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2017/01/18

Note: All equipments upon which need to be calibrated are with calibration period of 1 year.

7.2. Test Setup



7.3. Limit

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Limit	< ± 2.5 ppm
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7.4. Test Procedure

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.5. Uncertainty

The measurement uncertainty is defined as ± 10 Hz.

7.6. Test Result

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: GSM 850_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

824.2 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	14	-0.0174
3.7	14	-0.0166
3.4	15	-0.0186

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	-8	0.0097
-20	-8	0.0092
-10	8	-0.0093
0	-6	0.0075
+10	6	-0.0070
+20	10	-0.0126
+30	14	-0.0166
+40	19	-0.0227
+50	13	-0.0155

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: GSM 850_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

836.6 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	18	-0.0209
3.7	17	-0.0197
3.4	18	-0.0216

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	-8	0.0098
-20	5	-0.0062
-10	9	-0.0104
0	-8	0.0094
+10	10	-0.0121
+20	8	-0.0092
+30	17	-0.0197
+40	17	-0.0200
+50	18	-0.0215

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: GSM 850_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

848.8 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	13	-0.0158
3.7	14	-0.0159
3.4	12	-0.0144

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	7	-0.0085
-20	10	-0.0118
-10	11	-0.0125
0	7	-0.0077
+10	12	-0.0141
+20	14	-0.0165
+30	14	-0.0159
+40	14	-0.0160
+50	17	-0.0201

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: DCS 1900_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

1850.2 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	26	-0.0140
3.7	30	-0.0162
3.4	23	-0.0127

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	25	-0.0137
-20	-6	0.0034
-10	28	-0.0153
0	14	-0.0074
+10	28	-0.0152
+20	37	-0.0201
+30	30	-0.0162
+40	35	-0.0188
+50	29	-0.0154

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: DCS 1900_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

1880.0 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	35	-0.0187
3.7	35	-0.0184
3.4	33	-0.0178

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	9	-0.0045
-20	24	-0.0128
-10	21	-0.0110
0	28	-0.0147
+10	20	-0.0107
+20	25	-0.0132
+30	35	-0.0184
+40	38	-0.0199
+50	33	-0.0174

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: DCS 1900_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

1909.8 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	43	-0.0226
3.7	42	-0.0221
3.4	41	-0.0215

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	14	-0.0071
-20	24	-0.0126
-10	21	-0.0111
0	22	-0.0114
+10	27	-0.0141
+20	21	-0.0107
+30	42	-0.0221
+40	31	-0.0161
+50	41	-0.0212

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 5: WCDMA Band 5_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

826.4 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	-3	0.0038
3.7	-2	0.0027
3.4	-5	0.0062

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	-5	0.0064
-20	-5	0.0061
-10	-4	0.0047
0	-4	0.0050
+10	-8	0.0091
+20	-4	0.0051
+30	-2	0.0027
+40	3	-0.0034
+50	6	-0.0070

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 5: WCDMA Band 5_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

836.6 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	-4	0.0053
3.7	-3	0.0041
3.4	-4	0.0045

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	-4	0.0049
-20	-4	0.0048
-10	-3	0.0041
0	-4	0.0048
+10	-5	0.0065
+20	-4	0.0043
+30	-3	0.0041
+40	-3	0.0037
+50	-6	0.0069

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 5: WCDMA Band 5_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

846.6MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	-4	0.0051
3.7	-4	0.0051
3.4	-6	0.0073

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	5	-0.0060
-20	-4	0.0048
-10	3	-0.0033
0	5	-0.0058
+10	2	-0.0025
+20	-5	0.0064
+30	-4	0.0051
+40	-4	0.0047
+50	-5	0.0059

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 7: WCDMA Band 2_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

1852.4 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	-5	0.0028
3.7	-5	0.0025
3.4	-4	0.0024

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	-8	0.0042
-20	-8	0.0044
-10	-8	0.0041
0	-8	0.0045
+10	-9	0.0049
+20	-7	0.0038
+30	-5	0.0025
+40	-3	0.0018
+50	4	-0.0022

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 7: WCDMA Band 2_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

1880.0 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	-7	0.0037
3.7	-7	0.0039
3.4	-8	0.0044

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	-9	0.0045
-20	-7	0.0035
-10	-6	0.0033
0	-6	0.0032
+10	-8	0.0043
+20	-10	0.0054
+30	-7	0.0039
+40	-6	0.0032
+50	-10	0.0051

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 7: WCDMA Band 2_Link Mode		
Date of Test	2016/12/06	Test Site	SR10-H

1907.6 MHz

FREQUENCY STABILITY

Voltage (VDC)	Frequency Error	Frequency Error(ppm)
4.2	-11	0.0055
3.7	-10	0.0054
3.4	-11	0.0058

AFC FREQ ERROR vs. TEMPERATURE

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	5	-0.0026
-20	4	-0.0020
-10	4	-0.0022
0	4	-0.0020
+10	-5	0.0026
+20	-7	0.0038
+30	-10	0.0054
+40	-11	0.0057
+50	-11	0.0059