

Partial FCC Test Report

(PART 22)

Report No.: RF170927C14

FCC ID: N7NEM7455

Test Model: EM7455

Received Date: Sep. 26, 2017

Test Date: Oct. 28, 2017

Issued Date: Nov. 16, 2017

Applicant: Trimble Navigation Limited

Address: 345 SW Avery Ave Corvallis, Oregon, United States, 97333

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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(R.O.C)

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Test Location (2): No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan,
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Release Control Record

Issue No.	Description	Date Issued
RF170927C14	Original Release	Nov. 16, 2017

1 Certificate of Conformity

Product: Wireless Modules

Brand: SIERRA

Test Model: EM7455

Sample Status: Production Unit

Applicant: Trimble Navigation Limited

Test Date: Oct. 28, 2017

Standards: FCC Part 22, Subpart H

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Evonne Liu, **Date:** Nov. 16, 2017
Evonne Liu / Specialist

Approved by : Dylan Chiou, **Date:** Nov. 16, 2017
Dylan Chiou / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1053 22.917	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -42.43 dB at 188.22 MHz.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.0153 dB
	200 MHz ~1000 MHz	2.0224 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	Jul. 05, 2017	Jul. 04, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 13, 2016	Dec. 12, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 16, 2016	Dec. 15, 2017
HORN Antenna ETS-Lindgren	3117	00143293	Dec. 29, 2016	Dec. 28, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 14, 2016	Dec. 13, 2017
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 17, 2017	Apr. 16, 2018
Preamplifier Agilent	310N	187226	Jun. 23, 2017	Jun. 22, 2018
Preamplifier Agilent	83017A	MY39501357	Jun. 23, 2017	Jun. 22, 2018
Power Meter Anritsu	ML2495A	1145013	Mar. 07, 2017	Mar. 06, 2018
Power Sensor Anritsu	MA2411B	1126085	Mar. 07, 2017	Mar. 06, 2018
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 23, 2017	Jun. 22, 2018
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 23, 2017	Jun. 22, 2018
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Communications Tester-Wireless Agilent	8960 Series 10	MY53201073	Jun. 28, 2017	Jun. 27, 2019
Radio Communication Analyzer Anritsu	MT8820C	6201010284	Nov. 30, 2016	Nov. 29, 2017
Temperature & Humidity Chamber	GTH-120-40-CP-A R	MAA1306-019	Sep. 08, 2017	Sep. 07, 2018
DC Power Supply Topward	33010D	807748	Oct. 25, 2016	Oct. 24, 2018
Digital Multimeter Fluke	87-III	70360742	Jun. 30, 2017	Jun. 29, 2018

- Note:
1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HsinTien Chamber 1.
 3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1 GHz if tested.
 4. The FCC Designation Number is TW0011. The number will be varied with the Lab location and scope as attached.
 5. The IC Site Registration No. is IC7450I-1.

3 General Information

3.1 General Description of EUT

Product	Wireless Modules	
Brand	SIERRA	
Test Model	EM7455	
Status of EUT	Production Unit	
Power Supply Rating	19.0 Vdc (adapter) 7.27 Vdc (Li-ion battery)	
Modulation Type	WCDMA	QPSK
	LTE	QPSK, 16QAM
Frequency Range	WCDMA	826.4 ~ 846.6 MHz
	LTE 5 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE 5 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE 5 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE 5 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
	LTE 26 (Channel Bandwidth: 1.4 MHz)	824.7 ~ 848.3 MHz
	LTE 26 (Channel Bandwidth: 3 MHz)	825.5 ~ 847.5 MHz
	LTE 26 (Channel Bandwidth: 5 MHz)	826.5 ~ 846.5 MHz
	LTE 26 (Channel Bandwidth: 10 MHz)	829 ~ 844 MHz
	LTE 26 (Channel Bandwidth: 15 MHz)	831.5 ~ 841.5 MHz
Antenna Type	PIFA Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

1. The EUT is authorized for use in specific End-product. Please refer to below for more details.

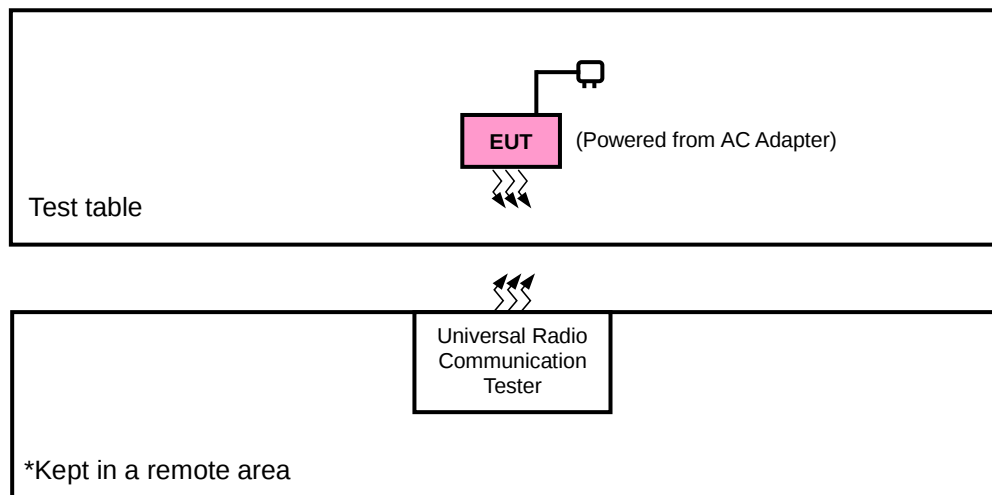
Product	Brand Name	Model Name
Handheld PC	Trimble	121300

2. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter	DELTA ELECTRONICS, INC.	ADP-90MD H	I/P: 100-240 Vac, 50-60 Hz, 1.5 A O/P: 19 Vdc, 4.74 A
Battery	Trimble	121300	7.27 Vdc, 3150 mAh, 22.9Wh

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.3 Test Mode Applicability and Tested Channel Detail

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	Radiated Emission	4132 to 4233	4132, 4182, 4233	WCDMA

LTE Band 5

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission	20450 to 20600	20450, 20525, 20600	10 MHz	QPSK	1 RB / 24 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

LTE Band 26

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	Radiated Emission	26865 to 26965	26865, 26915, 26965	15 MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency.

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 22

KDB 971168 D01 Power Meas License Digital Systems v02r02

ANSI/TIA-603-E-2016

Note: All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 7 watts e.r.p.

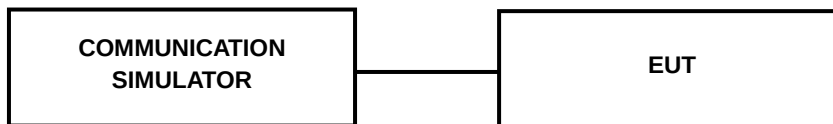
4.1.2 Test Procedures

Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 Test Setup

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	WCDMA V		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	22.80	22.83	22.86
HSDPA Subtest-1	21.62	21.65	21.68
HSDPA Subtest-2	21.65	21.68	21.71
HSDPA Subtest-3	21.15	21.18	21.21
HSDPA Subtest-4	21.14	21.17	21.20
HSUPA Subtest-1	21.38	21.41	21.44
HSUPA Subtest-2	20.69	20.72	20.75
HSUPA Subtest-3	20.35	20.38	20.41
HSUPA Subtest-4	20.94	20.97	21.00
HSUPA Subtest-5	21.77	21.80	21.83

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20407	Mid Ch 20525	High Ch 20643		Low Ch 20407	Mid Ch 20525	High Ch 20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
5 / 1.4M	1	0	22.67	22.74	22.78	0	21.72	21.79	21.83	1
	1	2	22.64	22.71	22.75	0	21.69	21.76	21.80	1
	1	5	22.56	22.63	22.67	0	21.61	21.68	21.72	1
	3	0	22.08	22.15	22.19	0	21.13	21.20	21.24	1
	3	1	22.11	22.18	22.22	0	21.16	21.23	21.27	1
	3	3	22.01	22.08	22.12	0	21.06	21.13	21.17	1
	6	0	21.62	21.69	21.73	1	20.67	20.74	20.78	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20415	Mid Ch 20525	High Ch 20635		Low Ch 20415	Mid Ch 20525	High Ch 20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
5 / 3M	1	0	22.73	22.80	22.84	0	21.78	21.85	21.89	1
	1	7	22.70	22.77	22.81	0	21.75	21.82	21.86	1
	1	14	22.62	22.69	22.73	0	21.67	21.74	21.78	1
	8	0	21.66	21.73	21.77	1	20.71	20.78	20.82	2
	8	3	21.69	21.76	21.80	1	20.74	20.81	20.85	2
	8	7	21.59	21.66	21.70	1	20.64	20.71	20.75	2
	15	0	21.68	21.75	21.79	1	20.73	20.80	20.84	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20425	Mid Ch 20525	High Ch 20625		Low Ch 20425	Mid Ch 20525	High Ch 20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 / 5M	1	0	22.76	22.83	22.87	0	21.81	21.88	21.92	1
	1	12	22.73	22.80	22.84	0	21.78	21.85	21.89	1
	1	24	22.65	22.72	22.76	0	21.70	21.77	21.81	1
	12	0	21.69	21.76	21.80	1	20.74	20.81	20.85	2
	12	6	21.72	21.79	21.83	1	20.77	20.84	20.88	2
	12	13	21.62	21.69	21.73	1	20.67	20.74	20.78	2
	25	0	21.71	21.78	21.82	1	20.76	20.83	20.87	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 20450	Mid Ch 20525	High Ch 20600		Low Ch 20450	Mid Ch 20525	High Ch 20600	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
5 / 10M	1	0	22.80	22.87	22.91	0	21.85	21.92	21.96	1
	1	24	22.77	22.84	22.88	0	21.82	21.89	21.93	1
	1	49	22.69	22.76	22.80	0	21.74	21.81	21.85	1
	25	0	21.73	21.80	21.84	1	20.78	20.85	20.89	2
	25	12	21.76	21.83	21.87	1	20.81	20.88	20.92	2
	25	25	21.66	21.73	21.77	1	20.71	20.78	20.82	2
	50	0	21.75	21.82	21.86	1	20.80	20.87	20.91	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26797	Mid Ch 26915	High Ch 27033		Low Ch 26797	Mid Ch 26915	High Ch 27033	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
26 / 1.4M	1	0	22.78	22.71	22.85	0	21.85	21.78	21.92	1
	1	2	22.68	22.61	22.75	0	21.75	21.68	21.82	1
	1	5	22.52	22.45	22.59	0	21.59	21.52	21.66	1
	3	0	22.29	22.22	22.36	0	21.29	21.22	21.36	1
	3	1	22.26	22.19	22.33	0	21.26	21.19	21.33	1
	3	3	22.08	22.01	22.15	0	21.08	21.01	21.15	1
	6	0	21.81	21.74	21.88	1	20.88	20.81	20.95	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26805	Mid Ch 26915	High Ch 27025		Low Ch 26805	Mid Ch 26915	High Ch 27025	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
26 / 3M	1	0	22.83	22.76	22.90	0	21.90	21.83	21.97	1
	1	7	22.73	22.66	22.80	0	21.80	21.73	21.87	1
	1	14	22.57	22.50	22.64	0	21.64	21.57	21.71	1
	8	0	21.87	21.80	21.94	1	20.94	20.87	21.01	2
	8	3	21.84	21.77	21.91	1	20.91	20.84	20.98	2
	8	7	21.66	21.59	21.73	1	20.73	20.66	20.80	2
	15	0	21.86	21.79	21.93	1	20.93	20.86	21.00	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26815	Mid Ch 26915	High Ch 27015		Low Ch 26815	Mid Ch 26915	High Ch 27015	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
26 / 5M	1	0	22.87	22.80	22.94	0	21.94	21.87	22.01	1
	1	12	22.77	22.70	22.84	0	21.84	21.77	21.91	1
	1	24	22.61	22.54	22.68	0	21.68	21.61	21.75	1
	12	0	21.91	21.84	21.98	1	20.98	20.91	21.05	2
	12	6	21.88	21.81	21.95	1	20.95	20.88	21.02	2
	12	13	21.70	21.63	21.77	1	20.77	20.70	20.84	2
	25	0	21.90	21.83	21.97	1	20.97	20.90	21.04	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26840	Mid Ch 26915	High Ch 26990		Low Ch 26840	Mid Ch 26915	High Ch 26990	
			829.0 MHz	836.5 MHz	844.0 MHz		829.0 MHz	836.5 MHz	844.0 MHz	
26 / 10M	1	0	22.93	22.86	23.00	0	22.00	21.93	22.07	1
	1	24	22.83	22.76	22.90	0	21.90	21.83	21.97	1
	1	49	22.67	22.60	22.74	0	21.74	21.67	21.81	1
	25	0	21.97	21.90	22.04	1	21.04	20.97	21.11	2
	25	12	21.94	21.87	22.01	1	21.01	20.94	21.08	2
	25	25	21.76	21.69	21.83	1	20.83	20.76	20.90	2
	50	0	21.96	21.89	22.03	1	21.03	20.96	21.10	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 26865	Mid Ch 26915	High Ch 26965		Low Ch 26865	Mid Ch 26915	High Ch 26965	
			831.5 MHz	836.5 MHz	841.5 MHz		831.5 MHz	836.5 MHz	841.5 MHz	
26 / 15M	1	0	22.97	22.90	23.04	0	22.04	21.97	22.11	1
	1	37	22.87	22.80	22.94	0	21.94	21.87	22.01	1
	1	74	22.71	22.64	22.78	0	21.78	21.71	21.85	1
	36	0	22.01	21.94	22.08	1	21.08	21.01	21.15	2
	36	19	21.98	21.91	22.05	1	21.05	20.98	21.12	2
	36	39	21.80	21.73	21.87	1	20.87	20.80	20.94	2
	75	0	22.00	21.93	22.07	1	21.07	21.00	21.14	2

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

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. The emission limit is equal to -13 dBm.

4.2.2 Test Procedure

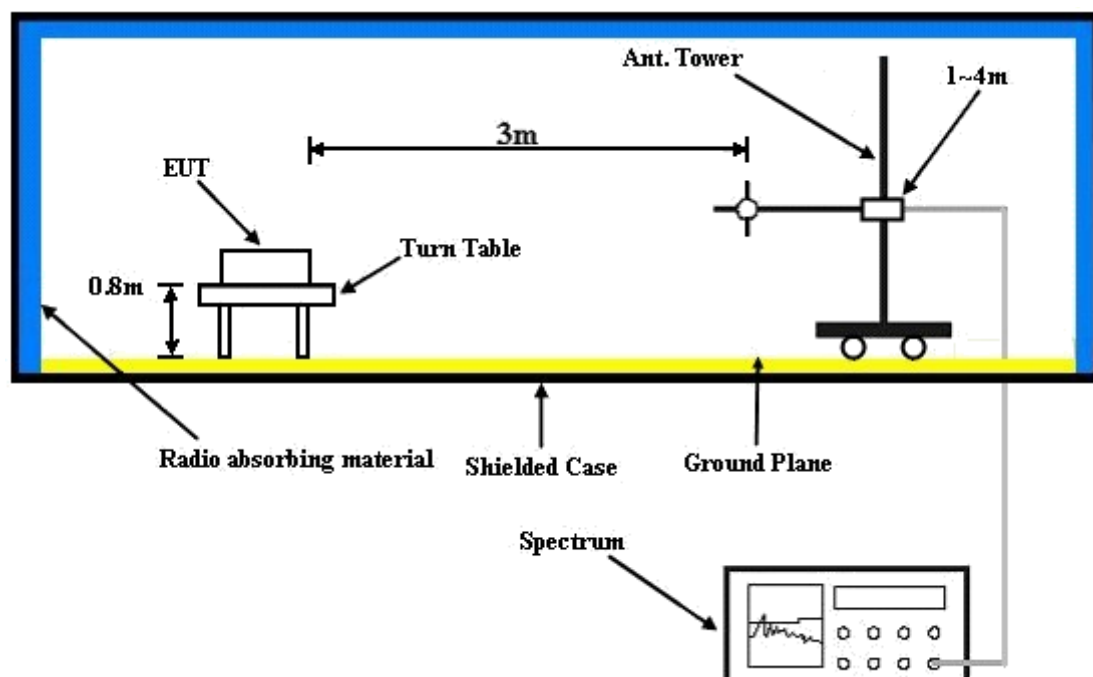
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15 dBi.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.2.3 Deviation from Test Standard

No deviation.

4.2.4 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.5 Test Results

WCDMA:

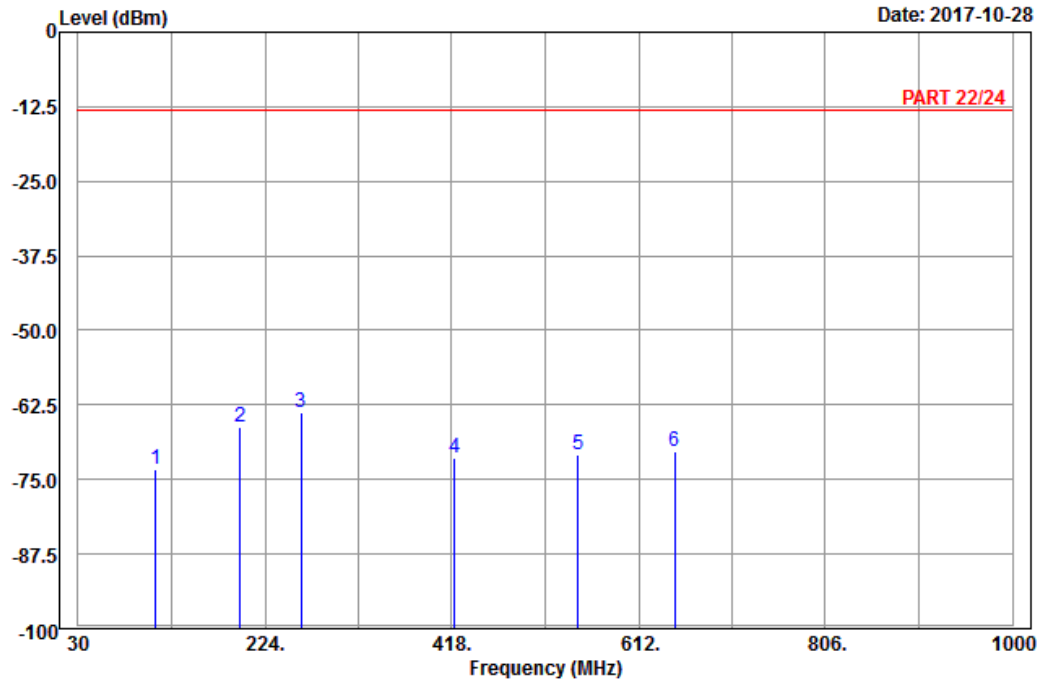


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2017-10-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : Band V_Link_CH4182
Tested by: Karl Lee

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	110.46	-73.23	-64.35	-13.00	-60.23	-8.88	Peak
2	198.21	-66.25	-60.16	-13.00	-53.25	-6.09	Peak
3 pp	261.93	-63.82	-58.21	-13.00	-50.82	-5.61	Peak
4	421.10	-71.47	-68.26	-13.00	-58.47	-3.21	Peak
5	549.20	-70.72	-68.99	-13.00	-57.72	-1.73	Peak
6	649.30	-70.19	-70.07	-13.00	-57.19	-0.12	Peak

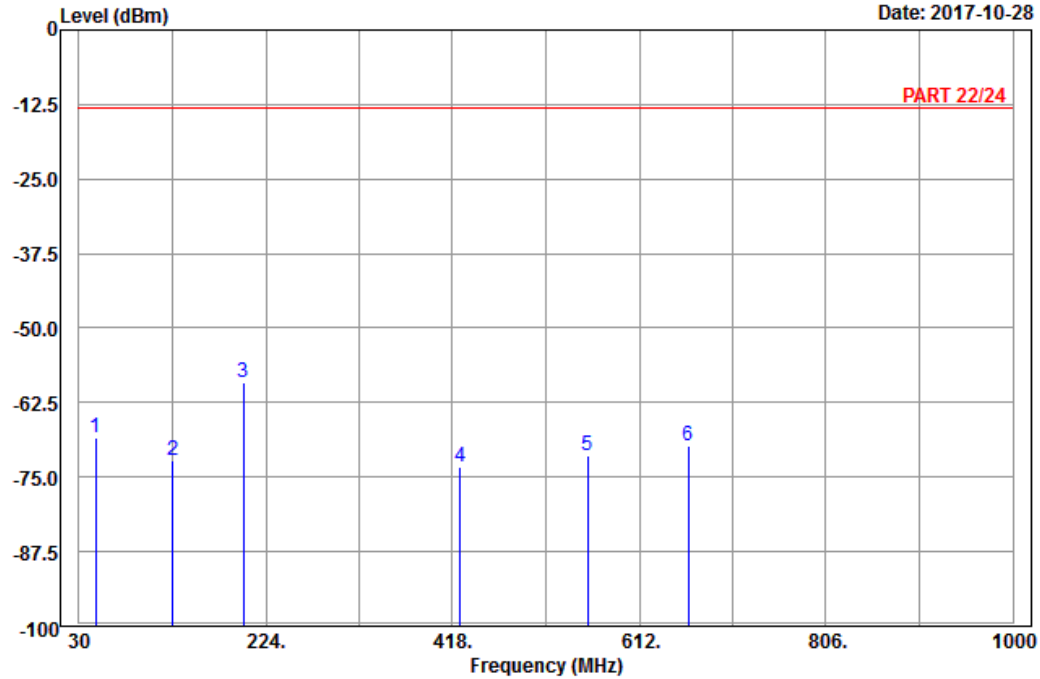


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Data: 6

Date: 2017-10-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : Band V_Link_CH4182
Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	47.01	-68.46	-55.35	-13.00	-55.46	-13.11	Peak
2	127.20	-72.25	-64.42	-13.00	-59.25	-7.83	Peak
3 pp	201.18	-59.19	-53.02	-13.00	-46.19	-6.17	Peak
4	426.00	-73.23	-69.92	-13.00	-60.23	-3.31	Peak
5	558.30	-71.48	-70.18	-13.00	-58.48	-1.30	Peak
6	663.30	-69.82	-69.62	-13.00	-56.82	-0.20	Peak

LTE Band 5

Channel Bandwidth: 10 MHz / QPSK

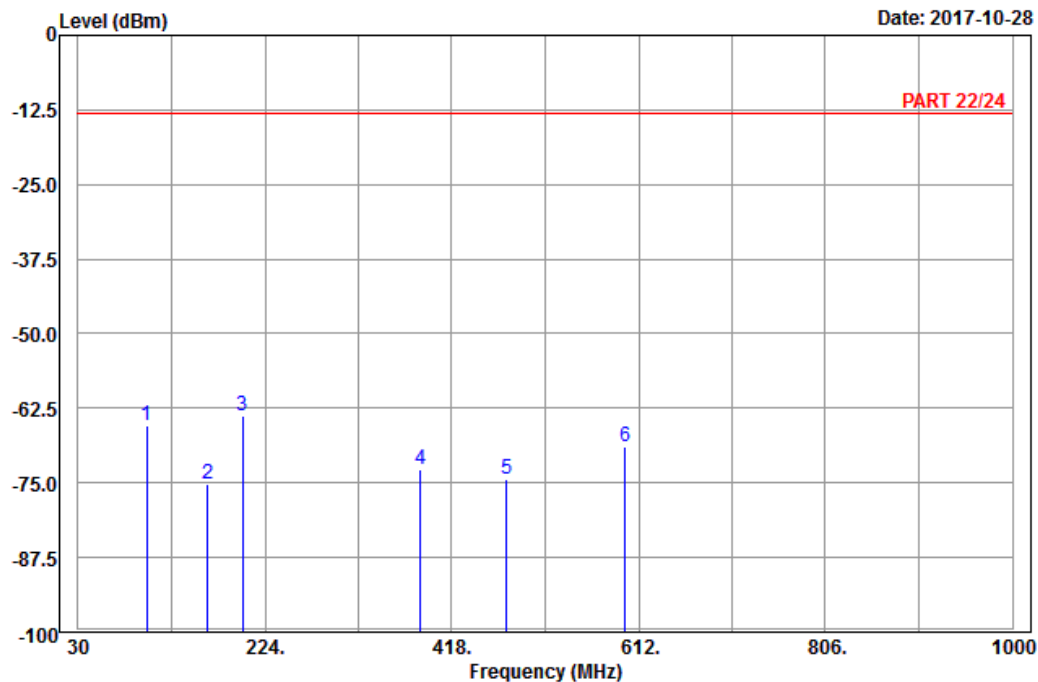


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2017-10-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 5_Link_CH20525
Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	101.55	-65.28	-55.39	-13.00	-52.28	-9.89	Peak
2	164.19	-75.09	-67.81	-13.00	-62.09	-7.28	Peak
3 pp	200.91	-63.82	-57.65	-13.00	-50.82	-6.17	Peak
4	385.40	-72.70	-69.18	-13.00	-59.70	-3.52	Peak
5	475.00	-74.42	-69.86	-13.00	-61.42	-4.56	Peak
6	598.20	-68.81	-69.16	-13.00	-55.81	0.35	Peak

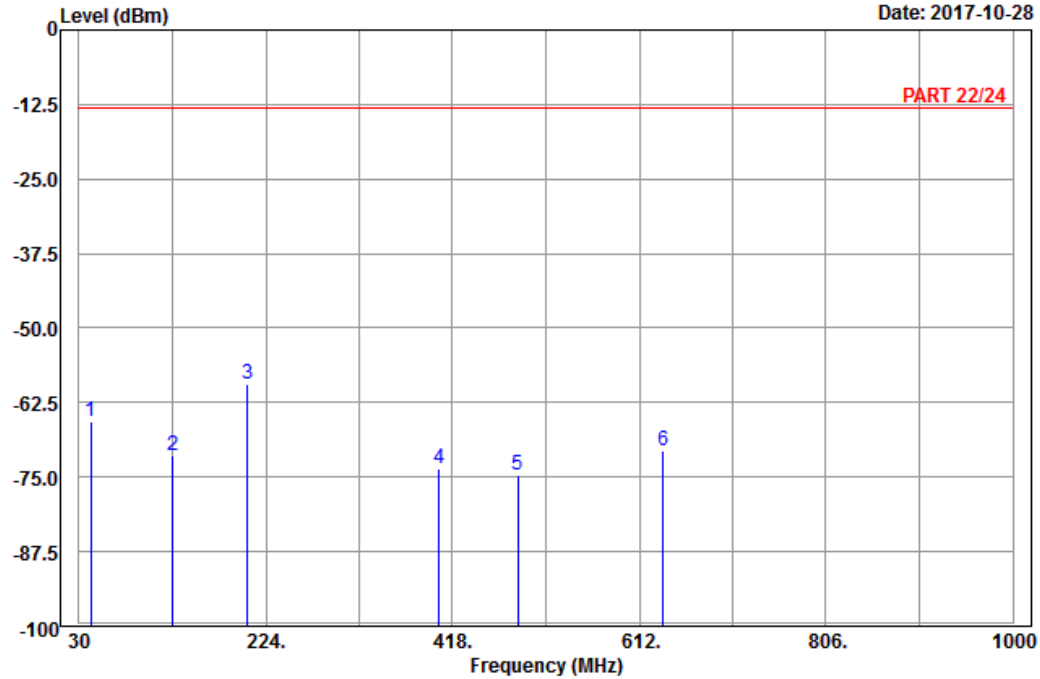


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2017-10-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 5_Link_CH20525
Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.15	-65.63	-54.64	-13.00	-52.63	-10.99	Peak
2	127.47	-71.34	-63.51	-13.00	-58.34	-7.83	Peak
3 pp	204.96	-59.42	-53.30	-13.00	-46.42	-6.12	Peak
4	404.30	-73.47	-70.62	-13.00	-60.47	-2.85	Peak
5	485.50	-74.79	-69.92	-13.00	-61.79	-4.87	Peak
6	636.70	-70.62	-70.64	-13.00	-57.62	0.02	Peak

LTE Band 26
Channel Bandwidth: 15 MHz / QPSK

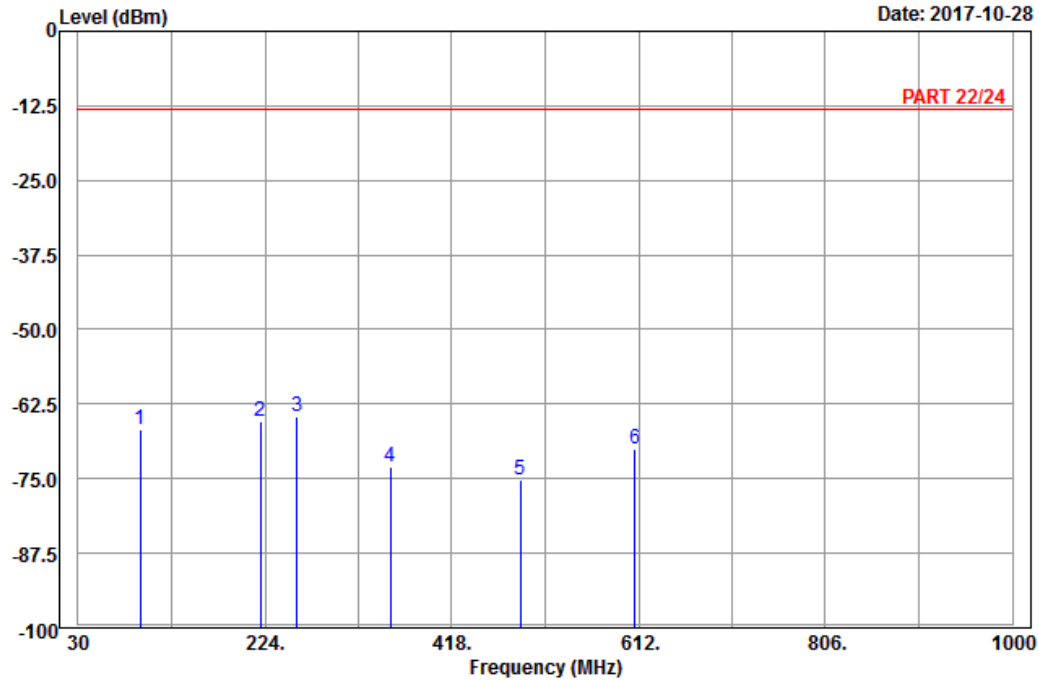


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2017-10-28



Site : 966 chamber 1
Condition: PART 22/24 Horizontal
Remark : LTE_Band 26_Link_CH26915
Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	94.26	-66.67	-56.22	-13.00	-53.67	-10.45	Peak
2	219.00	-65.43	-59.51	-13.00	-52.43	-5.92	Peak
3 pp	257.61	-64.63	-59.05	-13.00	-51.63	-5.58	Peak
4	354.60	-73.02	-67.90	-13.00	-60.02	-5.12	Peak
5	489.00	-75.26	-70.31	-13.00	-62.26	-4.95	Peak
6	608.00	-70.14	-70.48	-13.00	-57.14	0.34	Peak

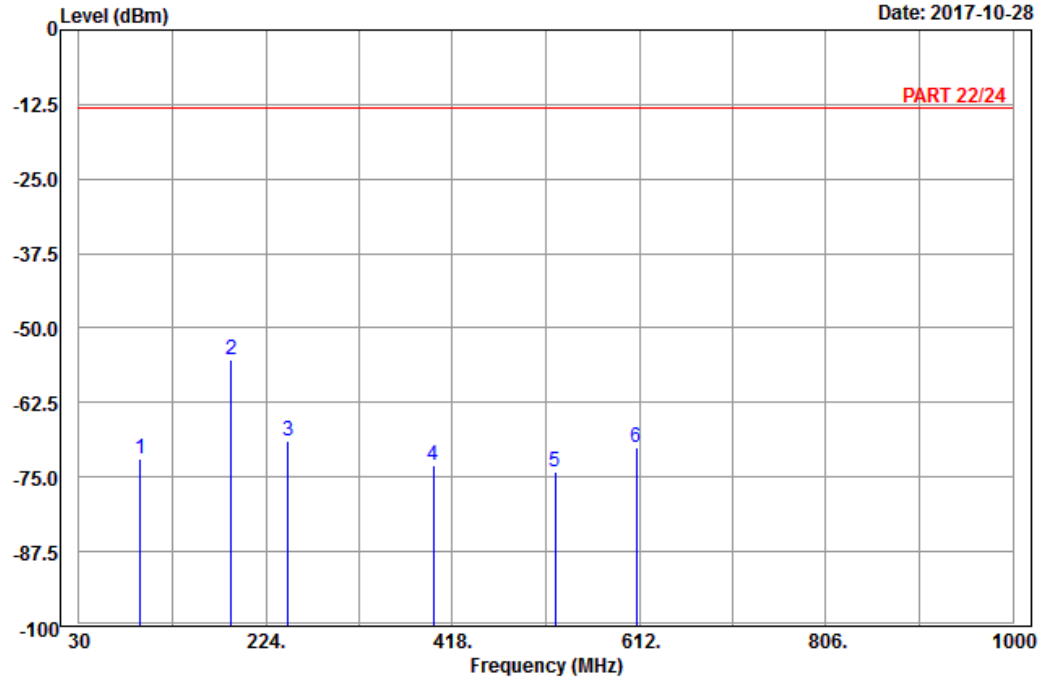


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2017-10-28



Site : 966 chamber 1
Condition: PART 22/24 Vertical
Remark : LTE_Band 26_Link_CH26915
Tested by: Karl Lee

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	93.72	-71.94	-61.49	-13.00	-58.94	-10.45	Peak
2	188.22	-55.43	-49.73	-13.00	-42.43	-5.70	Peak
3	247.08	-69.04	-63.49	-13.00	-56.04	-5.55	Peak
4	398.00	-73.15	-70.31	-13.00	-60.15	-2.84	Peak
5	524.70	-74.19	-70.68	-13.00	-61.19	-3.51	Peak
6	609.40	-69.90	-70.23	-13.00	-56.90	0.33	Peak

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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