



FCC TEST REPORT (BLUETOOTH)

REPORT NO.: RF130326C14-3
MODEL NO.: K005
FCC ID: MSQK005
RECEIVED: Mar. 26, 2013
TESTED: Apr. 14, 2013 ~ Apr. 20, 2013
ISSUED: Apr. 25, 2013

APPLICANT: ASUSTek COMPUTER INC.

ADDRESS: 4F., No. 150, LI-TE Rd., PEITOU, TAIPEI 112, TAIWAN

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.)
Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New
Taipei City, Taiwan (R.O.C)

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei
Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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Table of Contents

RELEASE CONTROL RECORD	4
1. CERTIFICATION.....	5
2. SUMMARY OF TEST RESULTS	6
2.1 MEASUREMENT UNCERTAINTY	6
3. GENERAL INFORMATION.....	7
3.1 GENERAL DESCRIPTION OF EUT	7
3.2 DESCRIPTION OF TEST MODES.....	8
3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL.....	9
3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS	11
3.4 DESCRIPTION OF SUPPORT UNITS	12
3.4.1 CONFIGURATION OF SYSTEM UNDER TEST	12
4. TEST TYPES AND RESULTS	13
4.1 Radiated Emission AND BANDEDGE Measurement	13
4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	13
4.1.2 TEST INSTRUMENTS	14
4.1.3 TEST PROCEDURES	15
4.1.4 DEVIATION FROM TEST STANDARD	15
4.1.5 TEST SETUP	16
4.1.6 EUT OPERATING CONDITIONS	16
4.1.7 TEST RESULTS	17
4.2 CONDUCTED EMISSION MEASUREMENT	25
4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT.....	25
4.2.2 TEST INSTRUMENTS	25
4.2.3 TEST PROCEDURES	26
4.2.4 DEVIATION FROM TEST STANDARD	26
4.2.5 TEST SETUP	27
4.2.6 EUT OPERATING CONDITIONS	27
4.2.7 TEST RESULTS	28
4.3 NUMBER OF HOPPING FREQUENCY USED.....	30
4.3.1 LIMIT OF HOPPING FREQUENCY USED	30
4.3.2 TEST SETUP	30
4.3.3 TEST INSTRUMENTS	30
4.3.4 TEST PROCEDURES	30
4.3.5 DEVIATION FROM TEST STANDARD	30
4.3.6 TEST RESULTS	30
4.4 DWELL TIME ON EACH CHANNEL	32
4.4.1 LIMIT OF DWELL TIME USED.....	32
4.4.2 TEST SETUP	32

4.4.3	TEST INSTRUMENTS	32
4.4.4	TEST PROCEDURES	32
4.4.5	DEVIATION FROM TEST STANDARD	32
4.4.6	TEST RESULTS	33
4.5	CHANNEL BANDWIDTH.....	36
4.5.1	LIMITS OF CHANNEL BANDWIDTH	36
4.5.2	TEST SETUP	36
4.5.3	TEST INSTRUMENTS	36
4.5.4	TEST PROCEDURE	36
4.5.5	DEVIATION FROM TEST STANDARD	36
4.5.6	EUT OPERATING CONDITION	36
4.5.7	TEST RESULTS	37
4.6	HOPPING CHANNEL SEPARATION	38
4.6.1	LIMIT OF HOPPING CHANNEL SEPARATION	38
4.6.2	TEST SETUP	38
4.6.3	TEST INSTRUMENTS	38
4.6.4	TEST PROCEDURES	38
4.6.5	DEVIATION FROM TEST STANDARD	38
4.6.6	TEST RESULTS	39
4.7	MAXIMUM OUTPUT POWER.....	40
4.7.1	LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT	40
4.7.2	TEST SETUP	40
4.7.3	TEST INSTRUMENTS	40
4.7.4	TEST PROCEDURES	40
4.7.5	DEVIATION FROM TEST STANDARD	40
4.7.6	EUT OPERATING CONDITION	40
4.7.7	TEST RESULTS	41
4.8	CONDUCTED OUT OF BAND EMISSION MEASUREMENT.....	42
4.8.1	LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT	42
4.8.2	TEST INSTRUMENTS	42
4.8.3	TEST PROCEDURE	42
4.8.4	DEVIATION FROM TEST STANDARD	42
4.8.5	EUT OPERATING CONDITION	42
4.8.6	TEST RESULTS	42
5.	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	46
6.	INFORMATION ON THE TESTING LABORATORIES	47
7.	APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB.....	48



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130326C14-3	Original release	Apr. 25, 2013



1. CERTIFICATION

PRODUCT: ASUS Tablet
MODEL NO.: K005
BRAND: ASUS
APPLICANT: ASUSTek COMPUTER INC.
TESTED: Apr. 14, 2013 ~ Apr. 20, 2013
TEST SAMPLE: Production Unit
STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.10-2009

The above equipment (model: K005) 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 : Vera Huang , **DATE** : Apr. 25, 2013
Vera Huang / Specialist

APPROVED BY : Sam chen , **DATE** : Apr. 25, 2013
Sam Chen / Assistant Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -10.43dB at 0.40391MHz.
15.247(a)(1) (iii)	Number of Hopping Frequency Used	PASS	Meet the requirement of limit.
15.247(a)(1) (iii)	Dwell Time on Each Channel	PASS	Meet the requirement of limit.
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	PASS	Meet the requirement of limit.
15.247(b)	Maximum Peak Output Power	PASS	Meet the requirement of limit.
15.247(d)	Transmitter Radiated Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -8.02dB at 32.16MHz.
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.

NOTE: If The Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.

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	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	2.93 dB
	200MHz ~1000MHz	2.95 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	ASUS Tablet
MODEL NO.	K005
POWER SUPPLY	5.0Vdc (adapter or host equipment) 3.7Vdc (Li-ion battery)
MODULATION TYPE	GFSK, $\pi/4$ -DQPSK, 8DPSK
TRANSFER RATE	1/2/3Mbps
OPERATING FREQUENCY	2402 ~ 2480MHz
NUMBER OF CHANNEL	79
CHANNEL SPACING	1MHz
OUTPUT POWER	9.204mW
ANTENNA TYPE	Chip antenna with 2.15dBi gain
ANTENNA CONNECTOR	NA
DATA CABLE	Refer to Note as below
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Refer to Note as below

NOTE:

1. The EUT has following accessories.

ITEM	BRAND	MODEL	DESCRIPTION
AC Adapter 1	ASUS	AD83531	Input: 100-240Vac, 50/60Hz, 0.3A Output: 5Vdc, 2A
AC Adapter 2	ASUS	W12-010N3A	Input: 100-240Vac, 50/60Hz, 0.3A Output: 5Vdc, 2A
Battery	SMP (cell SDI)	C12P1302	Rating: 3.7Vdc, 6560mAh / 25Wh
USB Cable	ASUS	AA757600	0.9m shielded cable without ferrite core
LCD Panel	AUO	AUO/B101UAN01.7_ H/W 1A	--
Video Camera (Front)	Liteon	LITEON/10P2SF130K	--
Video Camera (Rear)	Liteon	LITEON/12P2BA540	--
WWAN Module	Qualcomm	MDM-9215M	--
WLAN Module	Qualcomm	WCN-3660	--
CPU	Qualcomm	APQ-8064	1.7GHz, 1067 pins
Mainboard	Asus	ME302KL	--

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

3.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)						
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE \geq 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE \geq 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE: 1. For Radiated emission test, pre-tested GFSK, $\pi/4$ -DQPSK, 8DPSK modulation type and found 8DPSK was the worse, therefore chosen for the final test and presented in the test report.

2. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

RADIATED EMISSION TEST (ABOVE 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	PACKET TYPE
0 to 78	0, 39, 78	8DPSK	DH5

RADIATED EMISSION TEST (BELOW 1 GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	PACKET TYPE
0 to 78	39	8DPSK	DH5

POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	PACKET TYPE
0 to 78	39	8DPSK	DH5

ANTENNA PORT CONDUCTED MEASUREMENT:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	PACKET TYPE
0 to 78	0, 39, 78	GFSK	DH5
0 to 78	0, 39, 78	$\pi/4$ -DQPSK	DH5
0 to 78	0, 39, 78	8DPSK	DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE \geq 1G	25deg. C, 65%RH	120Vac, 60Hz	David Huang
RE $<$ 1G	25deg. C, 65%RH	120Vac, 60Hz	David Huang
PLC	25deg. C, 65%RH	120Vac, 60Hz	Anson Lin
APCM	25deg. C, 65%RH	120Vac, 60Hz	Howard Kao



3.3 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 Part 15, Subpart C (15.247)

ANSI C63.10-2009

FCC Public Notice DA 00-705

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B. The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

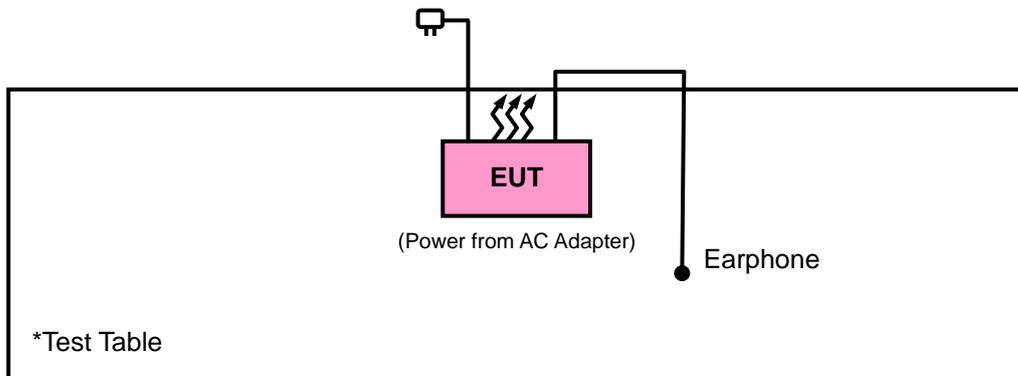
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	BLUETOOTH TESTER	R&S	CBT	100870	N/A
2	EARPHONE	Acon	CW-010M.V	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	N/A

NOTE:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items 1 acted as communication partners to transfer data.

3.4.1 CONFIGURATION OF SYSTEM UNDER TEST



4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Aug. 21, 2012	Aug. 20, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2012	Dec. 16, 2013
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Mar. 25, 2013	Mar. 24, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 07, 2013	Jan. 06, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 25, 2012	Dec. 24, 2013
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 184045	980116	Dec. 28, 2012	Dec. 27, 2013
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2012	Dec. 27, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 19, 2012	Oct. 18, 2013
RF signal cable Worken	RG-213	NA	Dec. 29, 2012	Dec. 28, 2013
Software	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. The test was performed in HwaYa Chamber 10.
 4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 5. The FCC Site Registration No. is 690701.
 6. The IC Site Registration No. is IC 7450F-10.

4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

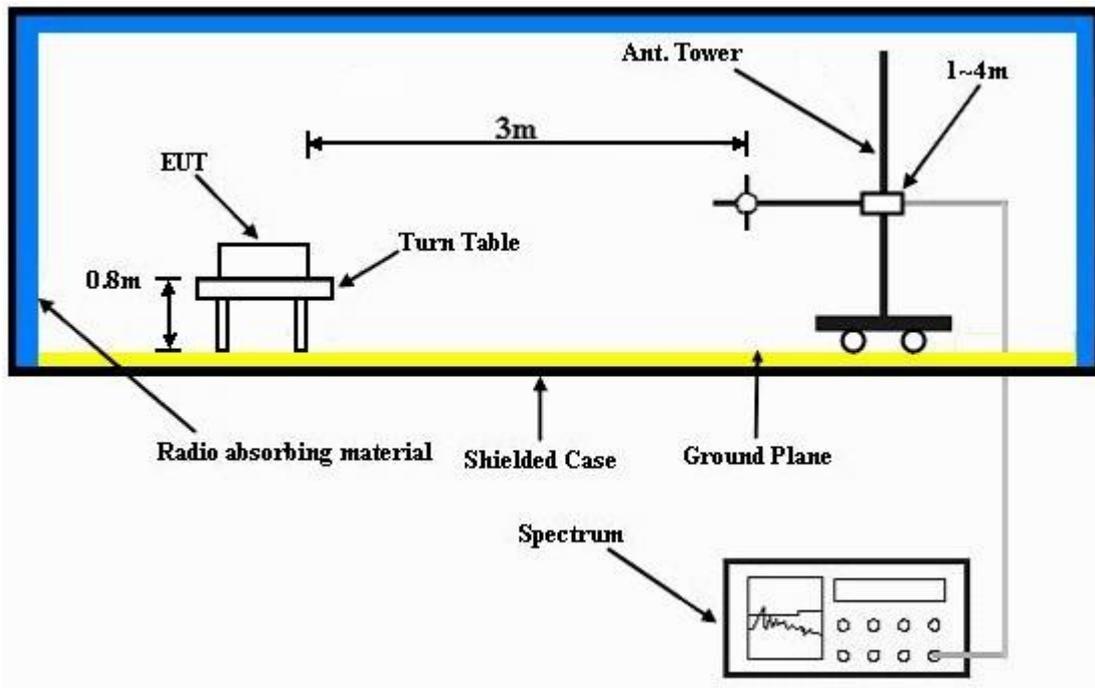
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection; resolution bandwidth is 1 MHz and video bandwidth is 10 Hz for Average detection (except fundamental, bandedge and harmonic frequency) at frequency above 1GHz.
3. The DH5 packet was the worst case duty cycle for a transmit dwell time on a channel, based upon Bluetooth theory the transmitter is on $0.625 * 5$ per 296.25 ms per channel. Therefore, the duty cycle correlation factor be equal to: $20\log(3.125 / 100) = -30.1$ dB.
Average value = peak reading + duty cycle correlation factor.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

4.1.5 TEST SETUP



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

4.1.6 EUT OPERATING CONDITIONS

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.



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4.1.7 TEST RESULTS

ABOVE 1GHz WORST-CASE DATA : 8DPSK

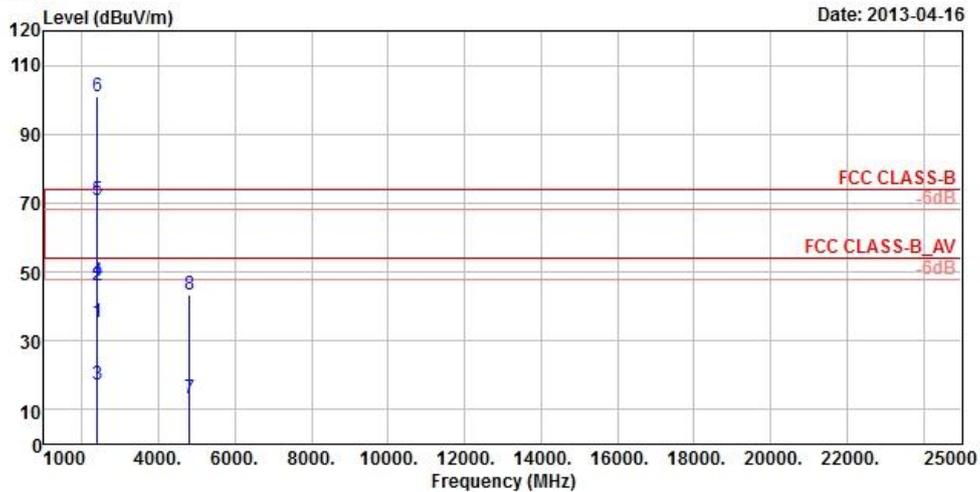


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 19

Date: 2013-04-16



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m HORIZONTAL
 Brand/Model: K005
 Remark : BT TX CH00
 Tested by : David Huang
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 Rate : 3DH5
 IMEI : 356239051102253

	Freq	Level	Read Level	Limit Line	OverLimit	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm	deg	
1	2390.00	35.38	41.12	54.00	-18.62	26.91	4.87	37.52	113	186	Average
2	2390.00	45.95	51.69	74.00	-28.05	26.91	4.87	37.52	113	186	Peak
3	2400.00	17.43	23.17	54.00	-36.57	26.91	4.87	37.52	113	186	Average
4	2400.00	47.53	53.27	74.00	-26.47	26.91	4.87	37.52	113	186	Peak
5 av	2402.00	70.93	76.67			26.91	4.87	37.52	113	186	Average
6 pp	2402.00	101.03	106.77			26.91	4.87	37.52	113	186	Peak
7	4804.00	13.39	27.83	54.00	-40.61	30.97	7.69	53.10	100	211	Average
8	4804.00	43.49	57.93	74.00	-30.51	30.97	7.69	53.10	100	211	Peak



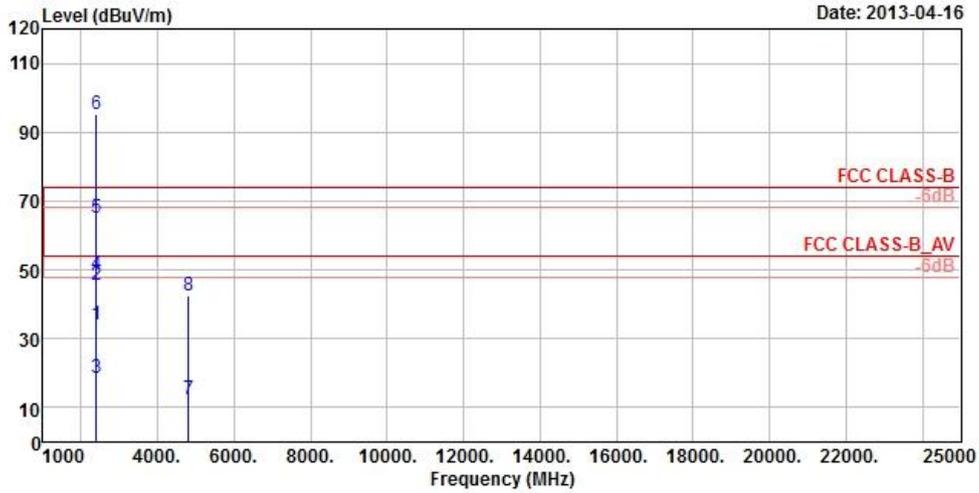
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Date: 2013-04-16

Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m VERTICAL
 Brand/Model: K005
 Remark : BT TX CH00
 Tested by : David Huang
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 Rate : 3DH5
 IMEI : 356239051102253

	Freq	Level	Read Level	Limit Line	OverLimit	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm	deg	
1	2390.00	34.06	39.80	54.00	-19.94	26.91	4.87	37.52	106	68	Average
2	2390.00	45.49	51.23	74.00	-28.51	26.91	4.87	37.52	106	68	Peak
3	2400.00	18.81	24.55	54.00	-35.19	26.91	4.87	37.52	106	68	Average
4	2400.00	48.91	54.65	74.00	-25.09	26.91	4.87	37.52	106	68	Peak
5 av	2402.00	64.93	70.67			26.91	4.87	37.52	106	68	Average
6 pp	2402.00	95.03	100.77			26.91	4.87	37.52	106	68	Peak
7	4804.00	12.33	26.77	54.00	-41.67	30.97	7.69	53.10	100	296	Average
8	4804.00	42.43	56.87	74.00	-31.57	30.97	7.69	53.10	100	296	Peak



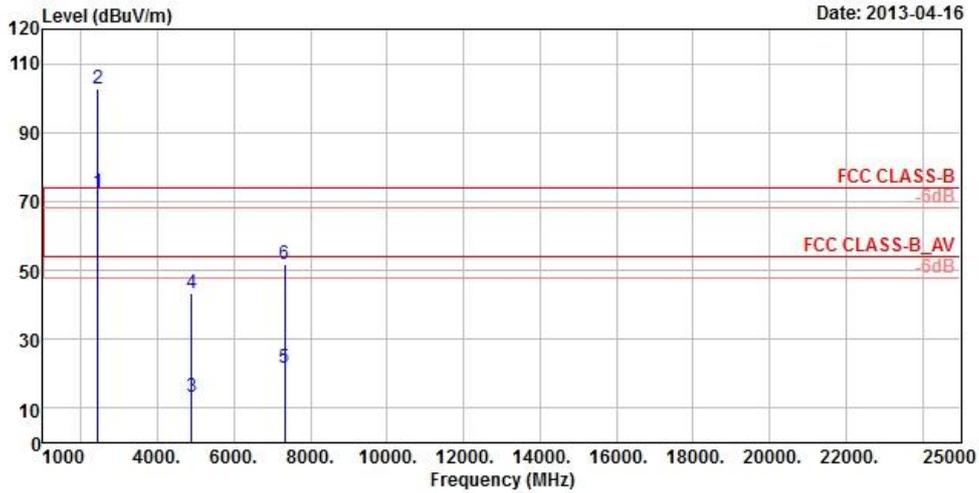
A D T



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A D T

Data: 19



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m HORIZONTAL
 Brand/Model: K005
 Remark : BT TX CH39
 Tested by : David Huang
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 Rate : 3DH5
 IMEI : 356239051102253

	Freq	Level	Read Level	Limit Line	OverLimit	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm	deg	
1 av	2441.00	72.81	78.23			27.06	4.91	37.39	105	187	Average
2 pp	2441.00	102.91	108.33			27.06	4.91	37.39	105	187	Peak
3	4882.00	13.38	27.65	54.00	-40.62	31.06	7.72	53.05	100	213	Average
4	4882.00	43.48	57.75	74.00	-30.52	31.06	7.72	53.05	100	213	Peak
5	7323.00	21.70	27.95	54.00	-32.30	35.89	9.63	51.77	100	158	Average
6	7323.00	51.80	58.05	74.00	-22.20	35.89	9.63	51.77	100	158	Peak



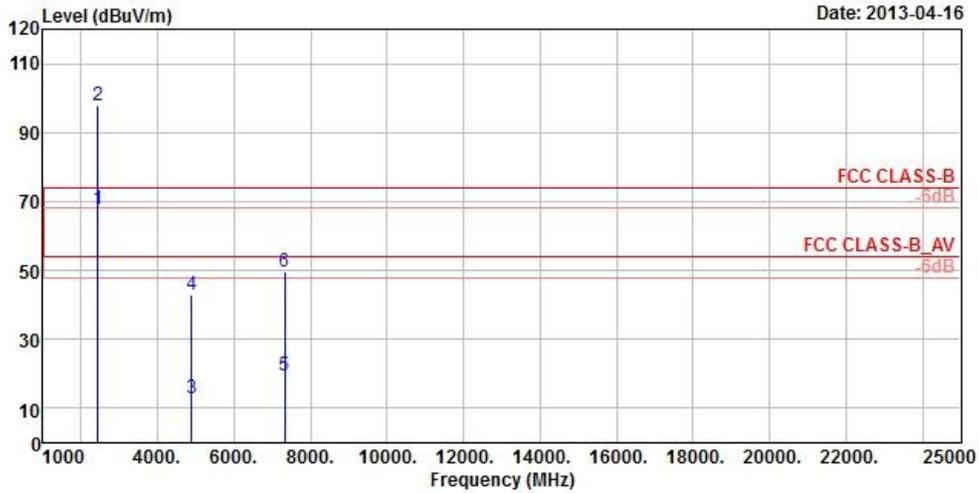
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m VERTICAL
 Brand/Model: K005
 Remark : BT TX CH39
 Tested by : David Huang
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 Rate : 3DH5
 IMEI : 356239051102253

	Freq	Level	Read Level	Limit Line	OverLimit	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm	deg	
1 av	2441.00	67.84	73.26			27.06	4.91	37.39	106	68	Average
2 pp	2441.00	97.94	103.36			27.06	4.91	37.39	106	68	Peak
3	4882.00	12.96	27.23	54.00	-41.04	31.06	7.72	53.05	100	269	Average
4	4882.00	43.06	57.33	74.00	-30.94	31.06	7.72	53.05	100	269	Peak
5	7323.00	19.59	25.84	54.00	-34.41	35.89	9.63	51.77	100	49	Average
6	7323.00	49.69	55.94	74.00	-24.31	35.89	9.63	51.77	100	49	Peak



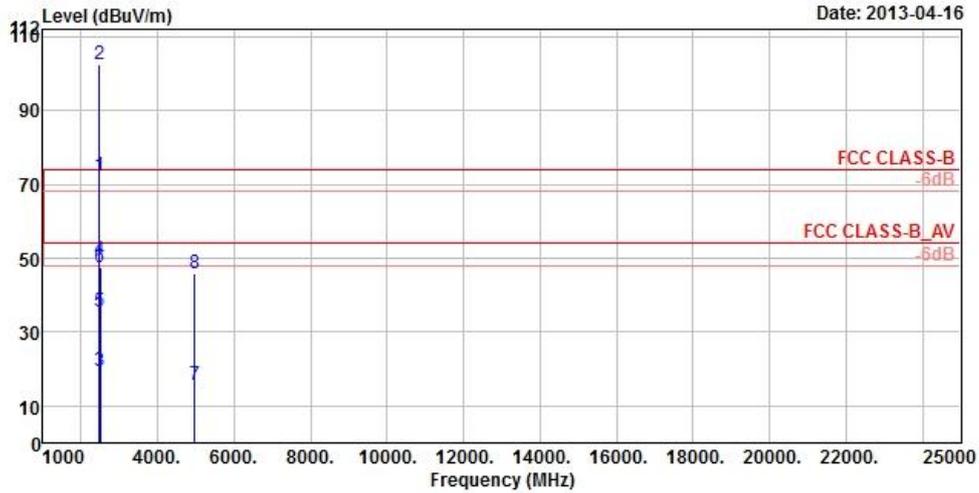
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 19



Date: 2013-04-16

Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m HORIZONTAL
 Brand/Model: K005
 Remark : BT TX CH78
 Tested by : David Huang
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 Rate : 3DH5
 IMEI : 356239051102253

	Freq	Level	Read Level	Limit Line	OverLimit	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm	deg	
1 av	2480.00	72.22	77.47			27.15	4.92	37.32	103	186	Average
2 pp	2480.00	102.32	107.57			27.15	4.92	37.32	103	186	Peak
3	2483.50	19.46	24.71	54.00	-34.54	27.15	4.92	37.32	103	186	Average
4	2483.50	49.56	54.81	74.00	-24.44	27.15	4.92	37.32	103	186	Peak
5	2485.50	35.37	40.62	54.00	-18.63	27.15	4.92	37.32	103	186	Average
6	2485.50	47.70	52.95	74.00	-26.30	27.15	4.92	37.32	103	186	Peak
7	4960.00	15.67	29.83	54.00	-38.33	31.16	7.72	53.04	100	215	Average
8	4960.00	45.77	59.93	74.00	-28.23	31.16	7.72	53.04	100	215	Peak



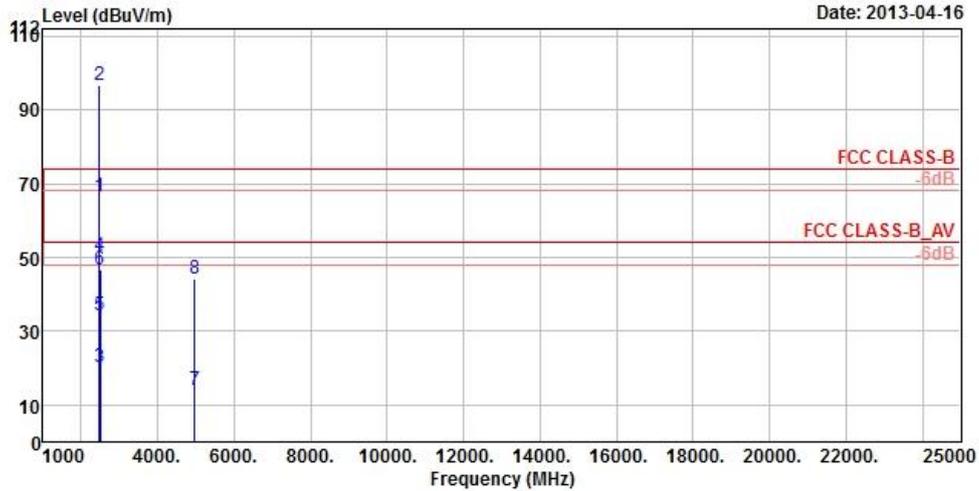
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 20



Date: 2013-04-16

Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m VERTICAL
 Brand/Model: K005
 Remark : BT TX CH78
 Tested by : David Huang
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 Rate : 3DH5
 IMEI : 356239051102253

	Read	Limit	OverAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	
Freq	Level	Level	Line	Limit	Factor	Loss	Factor		
MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm deg	
1 av	2480.00	66.53	71.78		27.15	4.92	37.32	100 68 Average	
2 pp	2480.00	96.63	101.88		27.15	4.92	37.32	100 68 Peak	
3	2483.50	20.13	25.38	54.00	-33.87	27.15	4.92	37.32	100 68 Average
4	2483.50	50.23	55.48	74.00	-23.77	27.15	4.92	37.32	100 68 Peak
5	2485.50	34.33	39.58	54.00	-19.67	27.15	4.92	37.32	100 68 Average
6	2485.50	46.57	51.82	74.00	-27.43	27.15	4.92	37.32	100 68 Peak
7	4960.00	14.17	28.33	54.00	-39.83	31.16	7.72	53.04	100 104 Average
8	4960.00	44.27	58.43	74.00	-29.73	31.16	7.72	53.04	100 104 Peak



A D T

BELOW 1GHz WORST-CASE DATA : 8DPSK

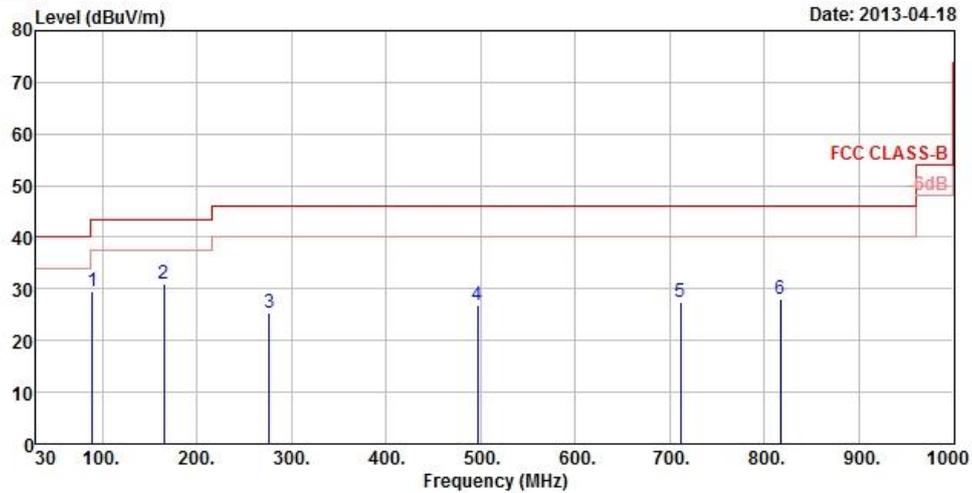


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2013-04-18



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m HORIZONTAL
 Brand/Model: K005
 Remark : BT LF
 Tested by : David Huang
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 IMEI : 356239051102253

	Freq	Level	Read Level	Limit Line	OverLimit	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm	deg	
1	89.40	29.41	52.02	43.50	-14.09	8.28	1.02	31.91	100	136	Peak
2 pp	165.54	31.06	49.28	43.50	-12.44	12.15	1.42	31.79	100	224	Peak
3	276.51	25.37	43.08	46.00	-20.63	12.25	1.94	31.90	100	185	Peak
4	496.70	26.94	38.59	46.00	-19.06	17.25	2.77	31.67	100	101	Peak
5	711.60	27.43	34.70	46.00	-18.57	20.98	3.47	31.72	100	142	Peak
6	816.60	28.04	33.42	46.00	-17.96	22.44	3.74	31.56	100	326	Peak



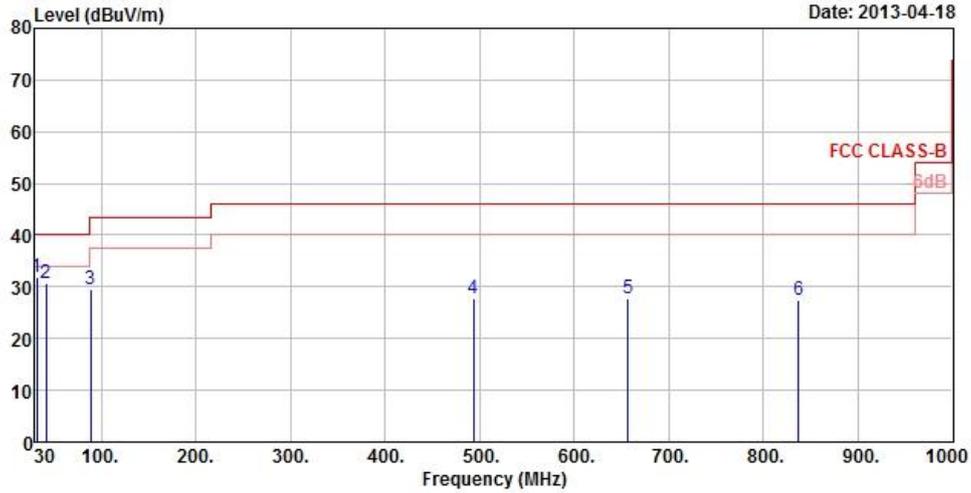
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Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6



Site : 966 Chamber 5
 Condition : FCC CLASS-B 3m VERTICAL
 Brand/Model: K005
 Remark : BT LF
 Tested by : David Huang
 Temperature : 25°C
 Humidity : 65%
 Plane : X
 IMEI : 356239051102253

	Read	Limit	Over	Antenna	Cable	Preamp	A/Pos	T/Pos	Remark	
Freq	Level	Level	Line	Limit	Factor	Loss	Factor			
MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	dB	dB	cm	deg	
1 pp	32.16	31.98	50.21	40.00	-8.02	12.30	0.58	31.11	100	163 QP
2	41.88	30.83	47.64	40.00	-9.17	13.56	0.68	31.05	100	254 QP
3 pk	89.13	29.54	52.15	43.50	-13.96	8.28	1.02	31.91	100	229 Peak
4	493.20	27.86	39.62	46.00	-18.14	17.20	2.76	31.72	100	117 Peak
5	657.00	27.83	36.24	46.00	-18.17	20.29	3.27	31.97	100	165 Peak
6	837.60	27.41	32.69	46.00	-18.59	22.71	3.79	31.78	100	214 Peak

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Nov. 09, 2012	Nov. 08, 2013
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 28, 2012	Dec. 27, 2013
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 21, 2012	Dec. 20, 2013
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 06, 2012	Jul. 05, 2013
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 2.
 3. The VCCI Site Registration No. is C-2047.

4.2.3 TEST PROCEDURES

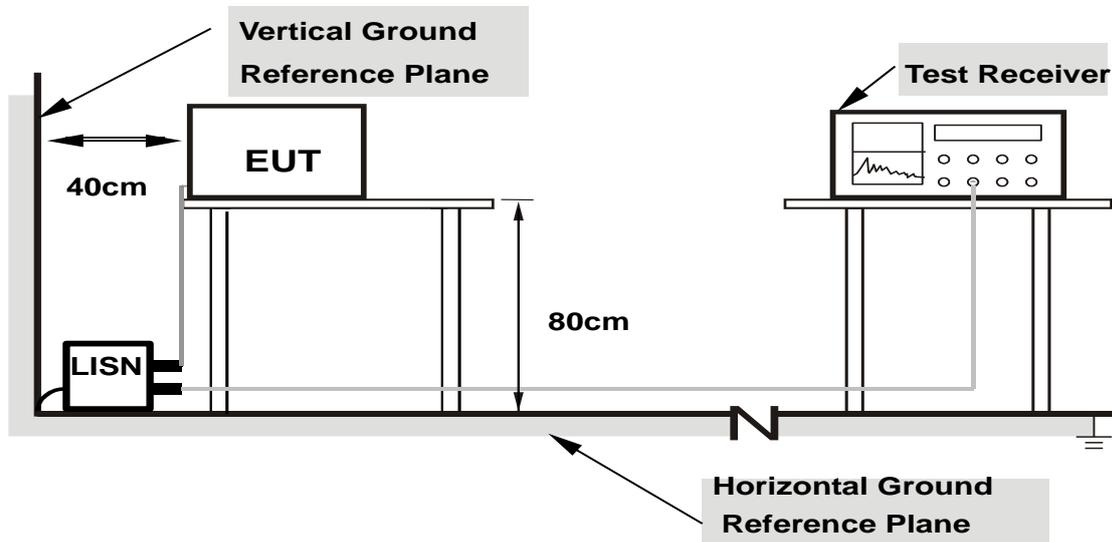
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



- Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes**

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

4.2.7 TEST RESULTS

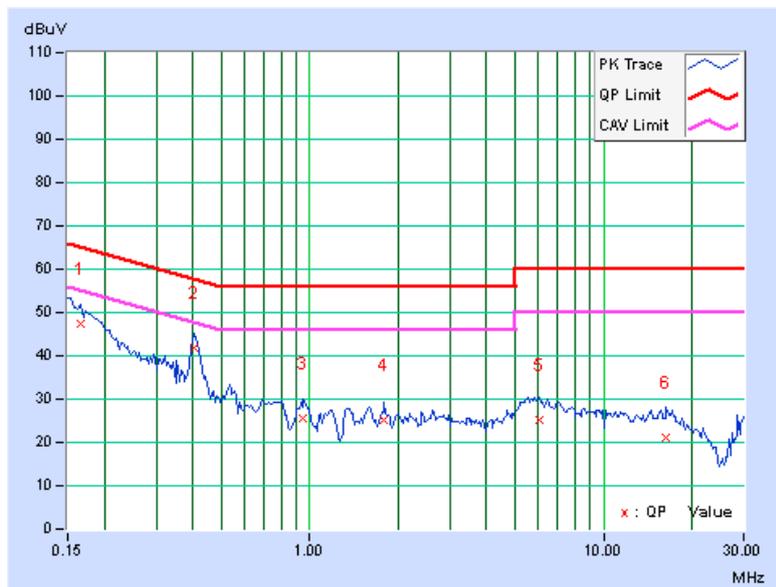
CONDUCTED WORST CASE DATA: 8DPSK

PHASE	Line 1	6dB BANDWIDTH	9kHz
-------	--------	---------------	------

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16562	0.12	47.40	34.63	47.52	34.75	65.18
2	0.40391	0.15	41.69	37.19	41.84	37.34	57.77	47.77	-15.93	-10.43
3	0.94297	0.20	25.53	21.29	25.73	21.49	56.00	46.00	-30.27	-24.51
4	1.79297	0.23	25.03	20.20	25.26	20.43	56.00	46.00	-30.74	-25.57
5	6.08594	0.45	24.61	18.13	25.06	18.58	60.00	50.00	-34.94	-31.42
6	16.38281	1.03	19.96	13.11	20.99	14.14	60.00	50.00	-39.01	-35.86

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

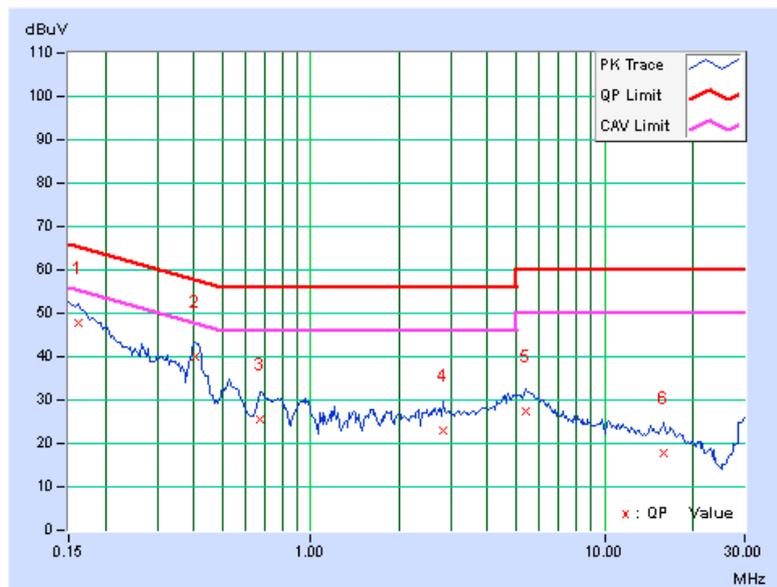


PHASE	Line 2	6dB BANDWIDTH	9kHz
-------	--------	---------------	------

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16172	0.17	47.79	34.29	47.96	34.46	65.38
2	0.40391	0.21	39.73	34.89	39.94	35.10	57.77	47.77	-17.83	-12.67
3	0.67344	0.23	25.29	19.11	25.52	19.34	56.00	46.00	-30.48	-26.66
4	2.83594	0.32	22.51	17.16	22.83	17.48	56.00	46.00	-33.17	-28.52
5	5.38672	0.43	27.11	17.35	27.54	17.78	60.00	50.00	-32.46	-32.22
6	15.94531	0.79	17.02	9.46	17.81	10.25	60.00	50.00	-42.19	-39.75

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

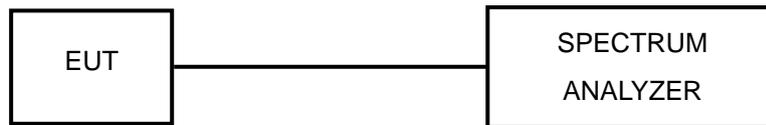


4.3 NUMBER OF HOPPING FREQUENCY USED

4.3.1 LIMIT OF HOPPING FREQUENCY USED

At least 15 channels frequencies, and should be equally spaced.

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.3.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were complete.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

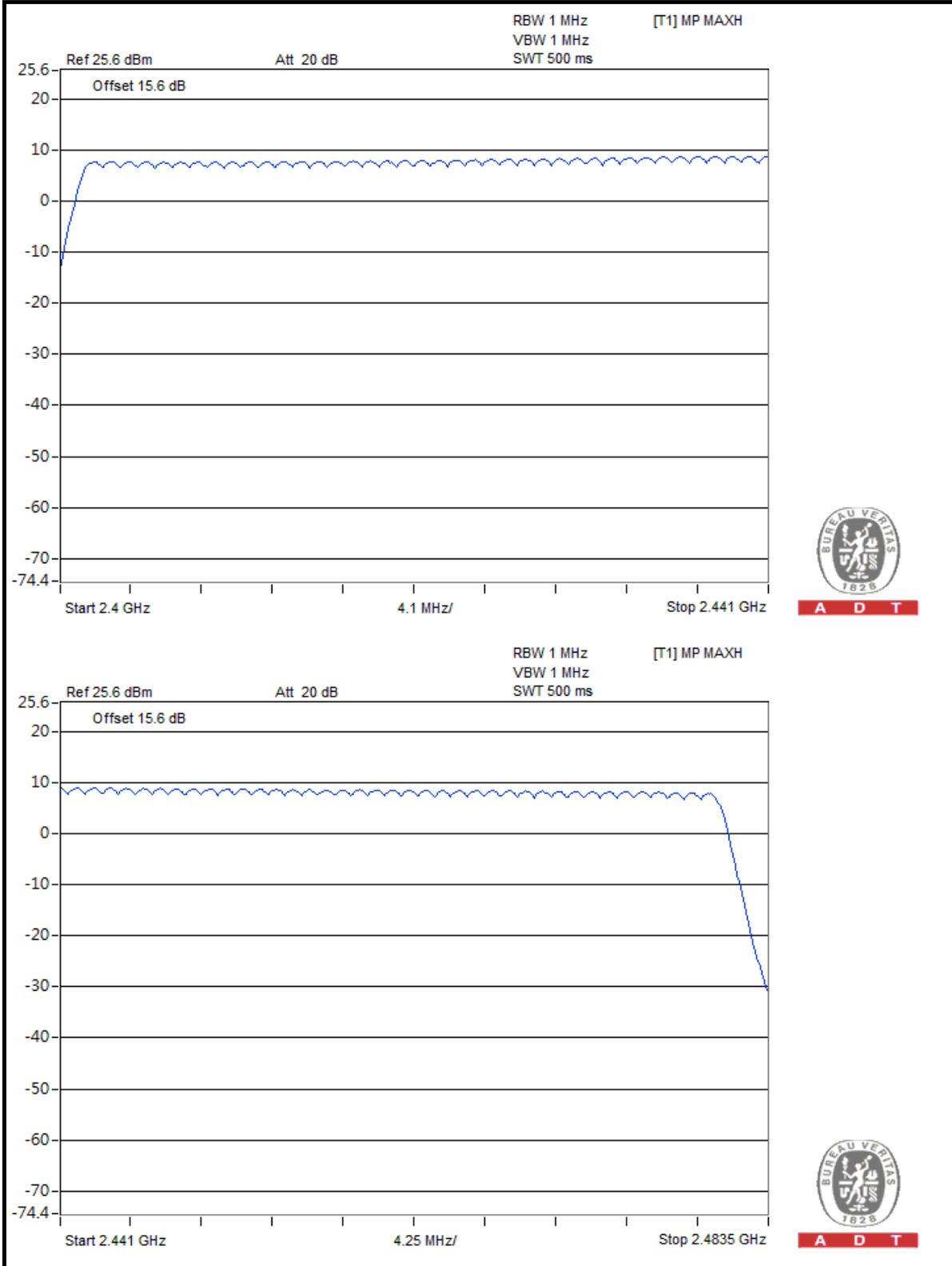
4.3.6 TEST RESULTS

There are 79 hopping frequencies in the hopping mode. Please refer to next page for the test result. On the plot, it shows that the hopping frequencies are equally spaced.



A D T

8DPSK

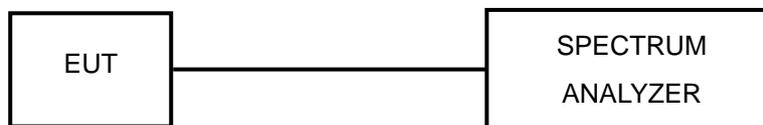


4.4 DWELL TIME ON EACH CHANNEL

4.4.1 LIMIT OF DWELL TIME USED

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.4.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- d. Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- e. Repeat above procedures until all different time-slot modes have been completed.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

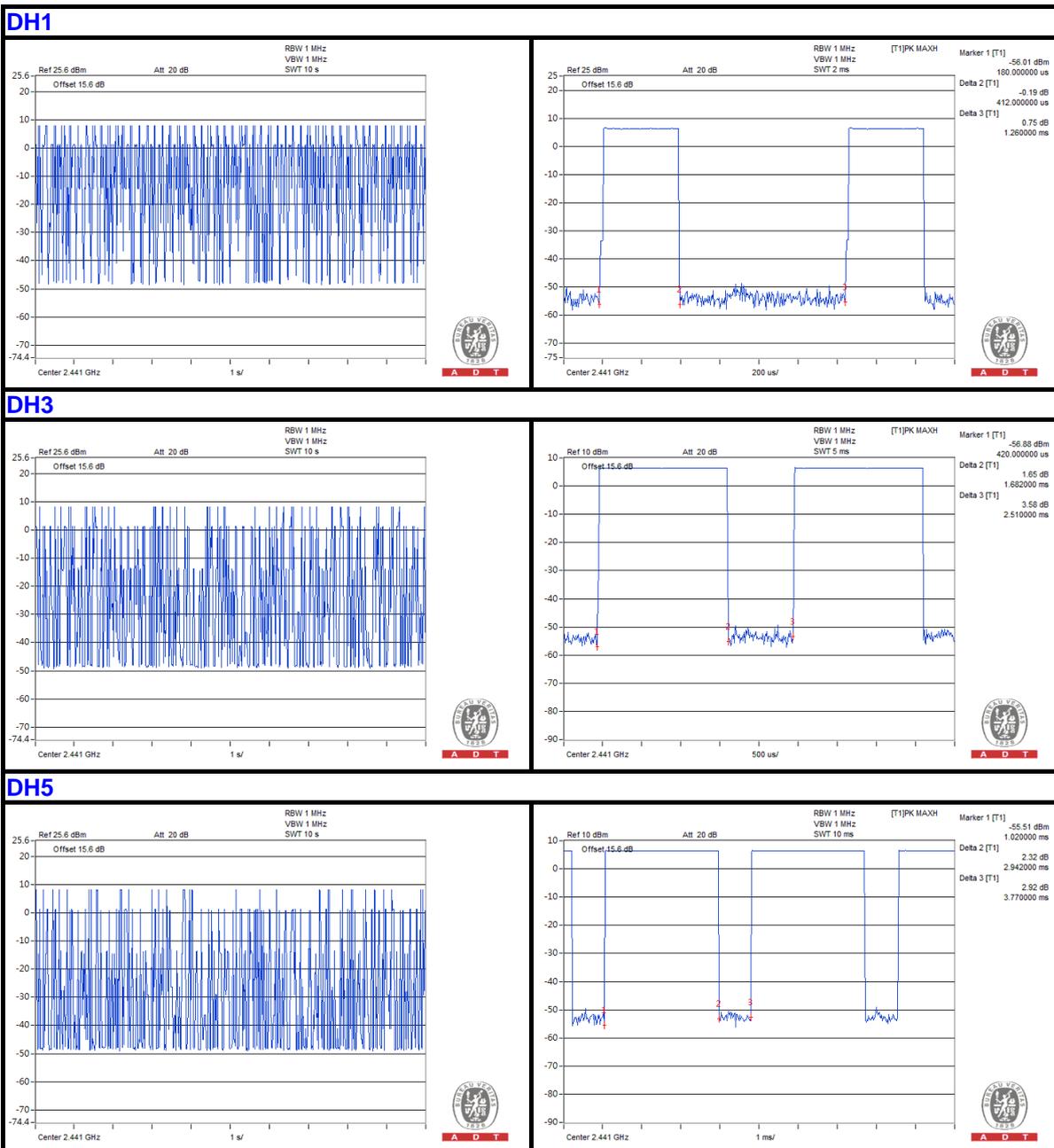
4.4.6 TEST RESULTS

GFSK

Mode	Average Hopping Channel	Package Transfer Time (usec)	Result (sec)	Limit (sec)
DH1	8.70	412.00	0.11	0.4
DH3	4.30	1682.00	0.23	0.4
DH5	3.40	2942.00	0.32	0.4

NOTE:

1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
2. 79 channels come from the Hopping Channel number
3. Average Hopping Channel = hops/sweep time
4. t: Package Transfer Time(us)
5. Test plots of the transmitting time slot are shown as below.

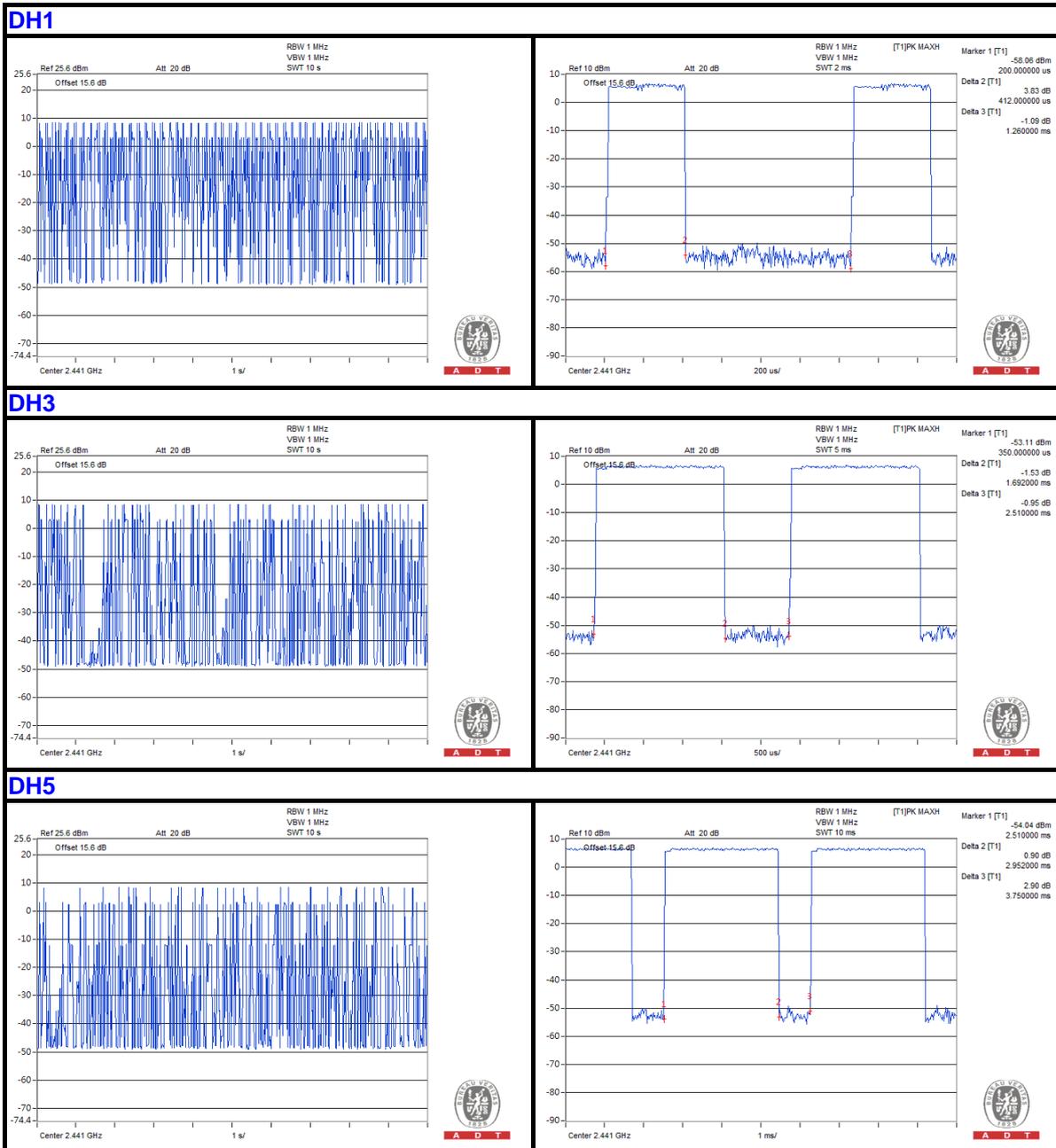


π/4-DQPSK

Mode	Average Hopping Channel	Package Transfer Time (usec)	Result (sec)	Limit (sec)
DH1	9.30	412.00	0.12	0.4
DH3	4.80	1692.00	0.26	0.4
DH5	3.10	2952.00	0.29	0.4

NOTE:

1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
2. 79 channels come from the Hopping Channel number
3. Average Hopping Channel = hops/sweep time
4. t: Package Transfer Time(us)
5. Test plots of the transmitting time slot are shown as below.

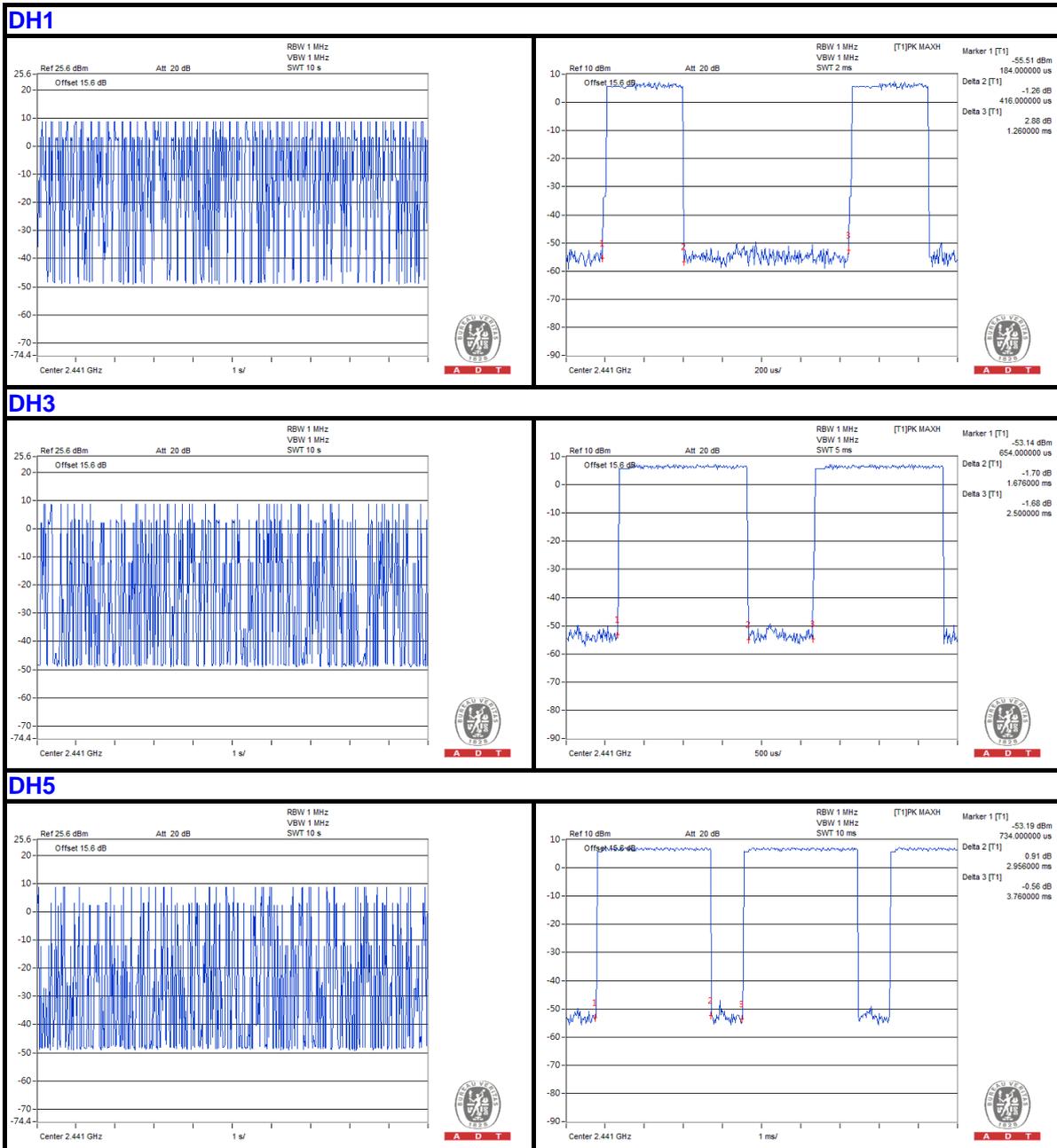


8DPSK

Mode	Average Hopping Channel	Package Transfer Time (usec)	Result (sec)	Limit (sec)
DH1	8.40	416.00	0.11	0.4
DH3	4.70	1676.00	0.25	0.4
DH5	4.00	2956.00	0.37	0.4

NOTE:

1. Dwell Time=79(channels) x 0.4(s) x average hopping channel x package transfer time
2. 79 channels come from the Hopping Channel number
3. Average Hopping Channel = hops/sweep time
4. t: Package Transfer Time(us)
5. Test plots of the transmitting time slot are shown as below.

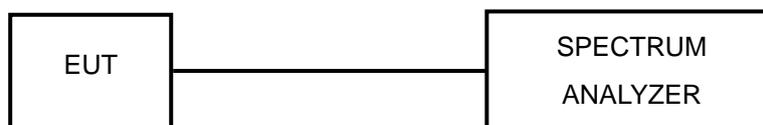


4.5 CHANNEL BANDWIDTH

4.5.1 LIMITS OF CHANNEL BANDWIDTH

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

4.5.5 DEVIATION FROM TEST STANDARD

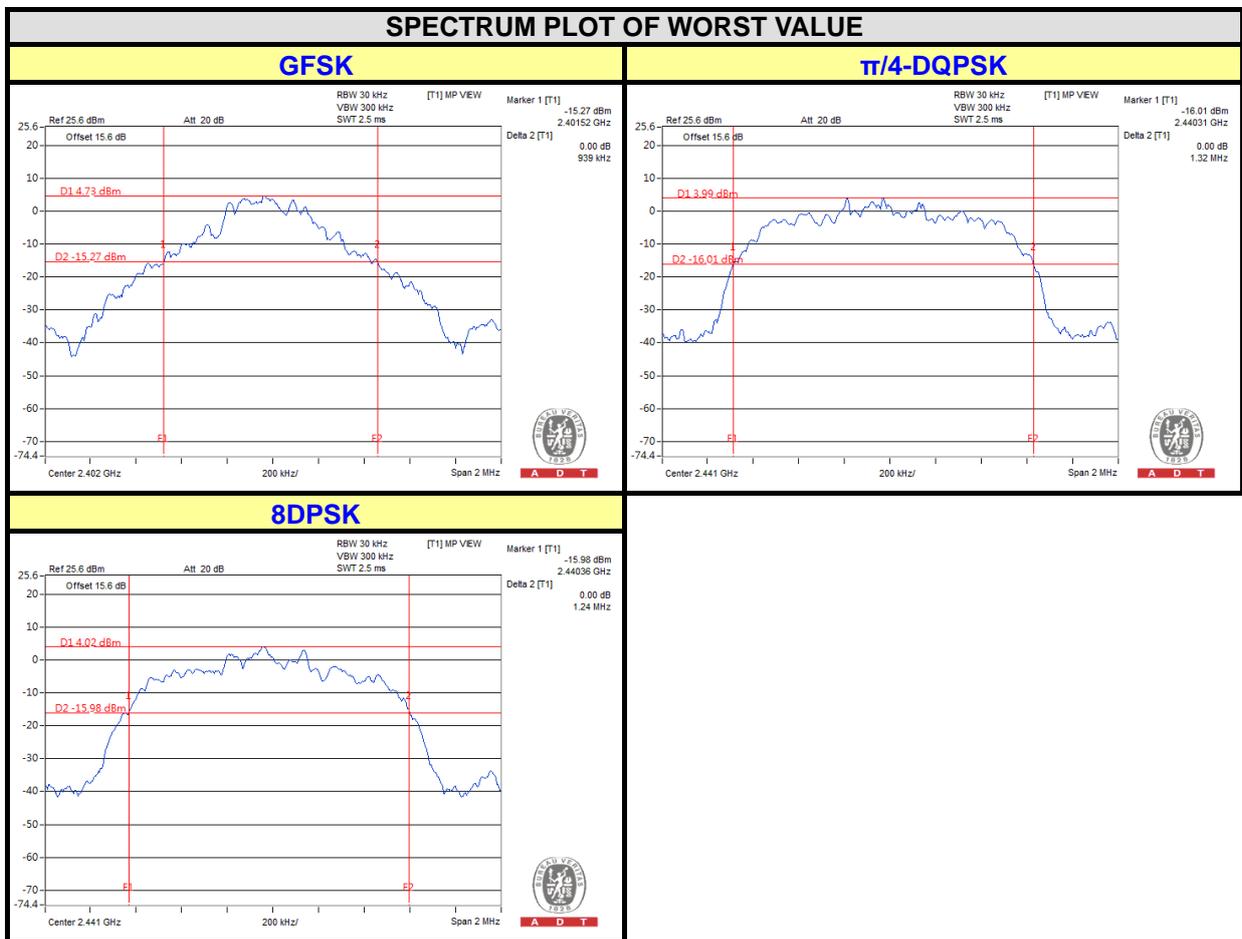
No deviation.

4.5.6 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.5.7 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	20dB BANDWIDTH (MHz)		
		GFSK	$\pi/4$ -DQPSK	8DPSK
0	2402	0.939	1.29	1.24
39	2441	0.935	1.32	1.24
78	2480	0.930	1.31	1.24

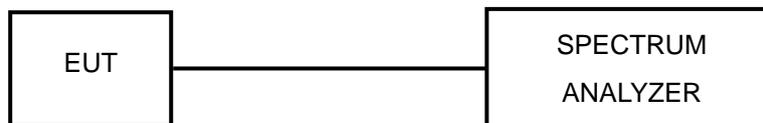


4.6 HOPPING CHANNEL SEPARATION

4.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.6.4 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
3. By using the MaxHold function record the separation of two adjacent channels.
4. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

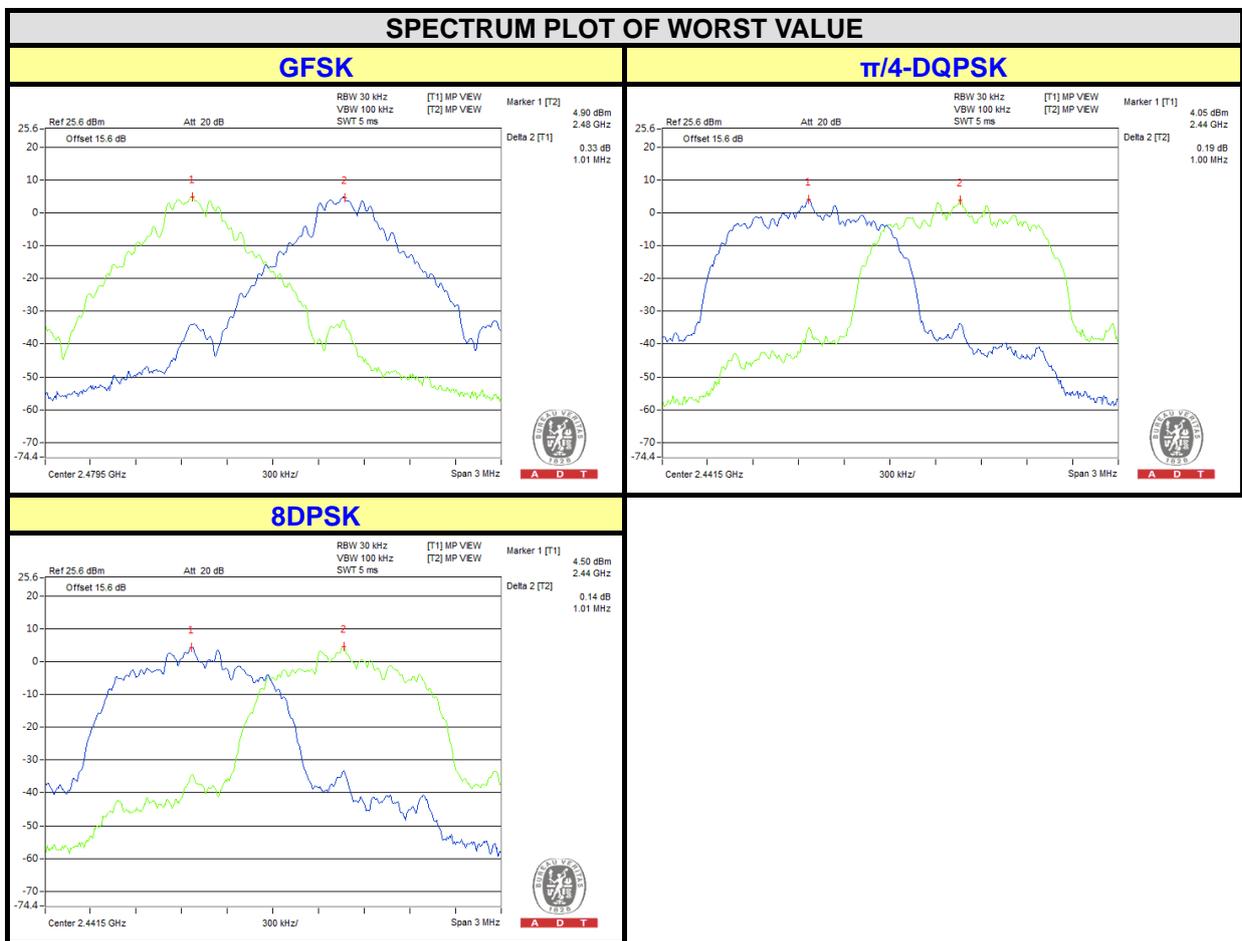
4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 TEST RESULTS

CHAN.	FREQ. (MHz)	ADJACENT CHANNEL SEPARATION (MHz)			20dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)			PASS / FAIL
		GFSK	$\pi/4$ -DQPSK	8DPSK	GFSK	$\pi/4$ -DQPSK	8DPSK	GFSK	$\pi/4$ -DQPSK	8DPSK	
0	2402	1.00	1.00	1.00	0.939	1.29	1.24	0.626	0.860	0.827	PASS
39	2441	1.00	1.00	1.01	0.935	1.32	1.24	0.623	0.880	0.827	PASS
78	2480	1.01	1.00	1.00	0.930	1.31	1.24	0.620	0.873	0.827	PASS

NOTE: The minimum limit is two-third 20dB bandwidth.

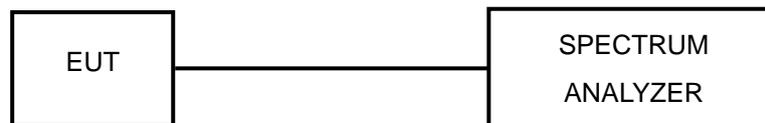


4.7 MAXIMUM OUTPUT POWER

4.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

4.7.2 TEST SETUP



4.7.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.7.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 3MHz RBW and 10 MHz VBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

4.7.5 DEVIATION FROM TEST STANDARD

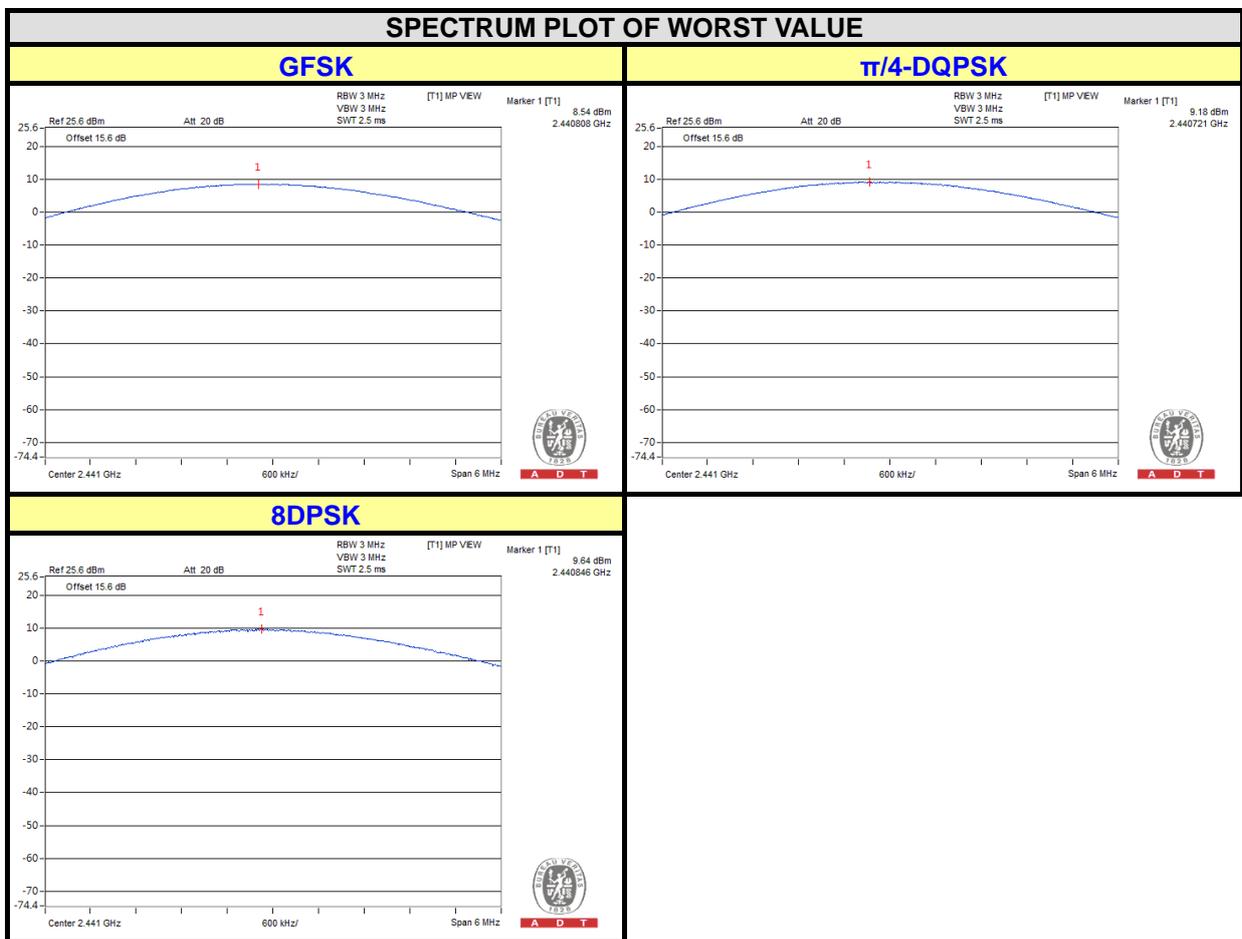
No deviation.

4.7.6 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

4.7.7 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	OUTPUT POWER (mW)			OUTPUT POWER (dBm)			POWER LIMIT (mW)	PASS / FAIL
		GFSK	$\pi/4$ -DQPSK	8DPSK	GFSK	$\pi/4$ -DQPSK	8DPSK		
0	2402	4.842	5.741	6.310	6.85	7.59	8.00	125	PASS
39	2441	7.145	8.279	9.204	8.54	9.18	9.64	125	PASS
78	2480	3.890	4.519	4.920	5.90	6.55	6.92	125	PASS



4.8 CONDUCTED OUT OF BAND EMISSION MEASUREMENT

4.8.1 LIMITS OF CONDUCTED OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

4.8.2 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.8.3 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set VBW =300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

4.8.4 DEVIATION FROM TEST STANDARD

No deviation.

4.8.5 EUT OPERATING CONDITION

The software provided by client enabled the EUT to transmit continuously.

4.8.6 TEST RESULTS

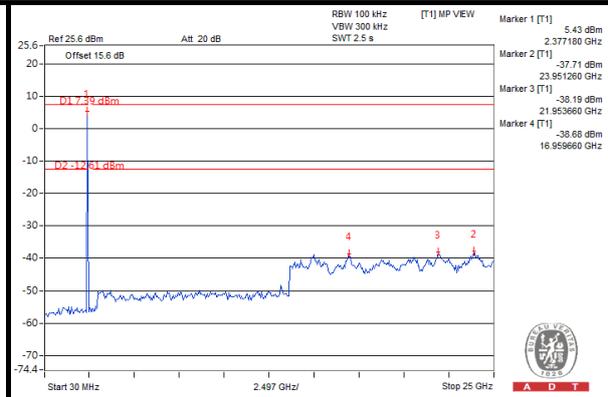
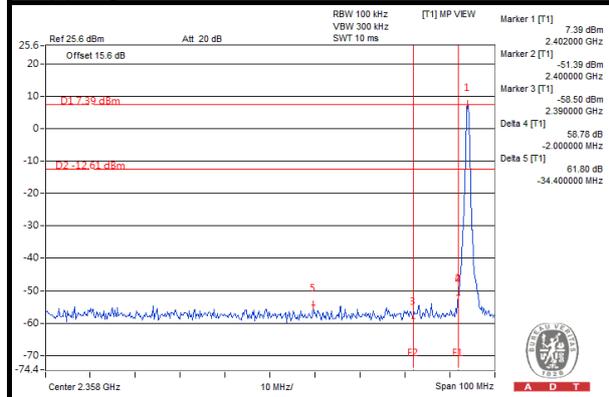
The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



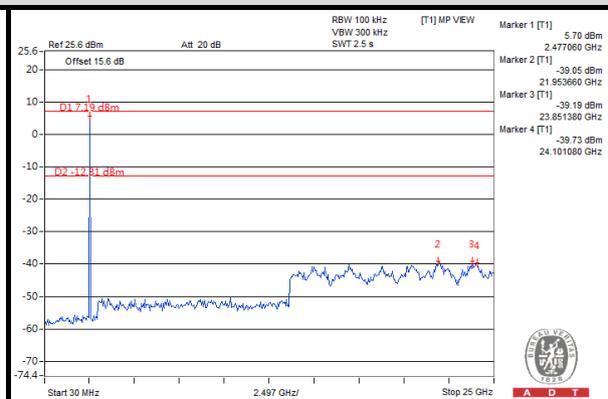
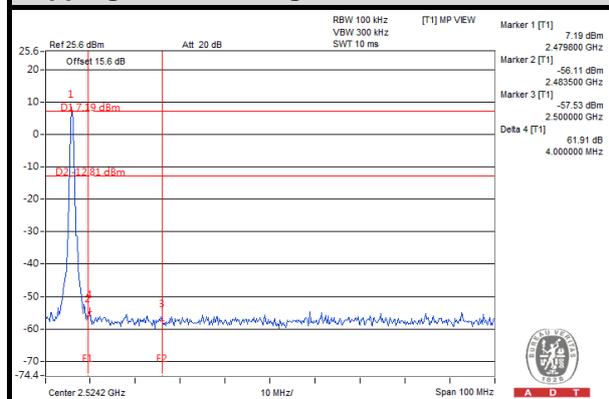
A D T

GFSK

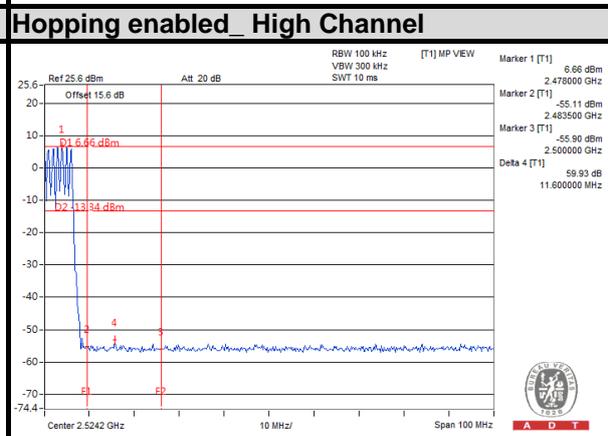
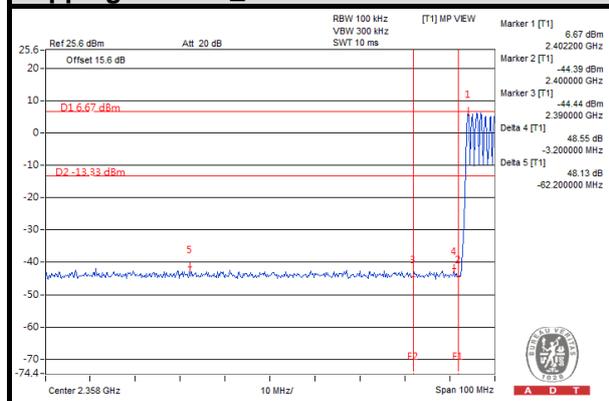
Hopping disabled_ Low Channel



Hopping disabled_ High Channel



Hopping enabled_ Low Channel

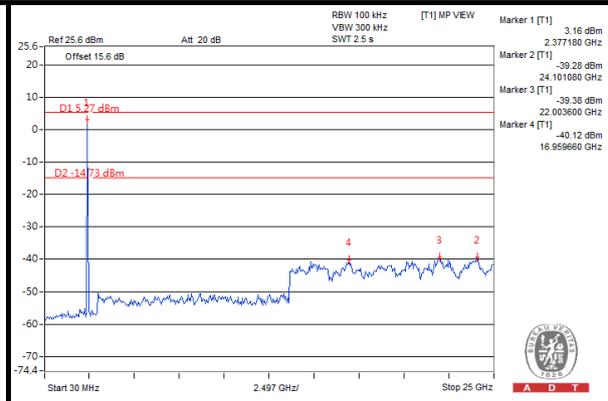
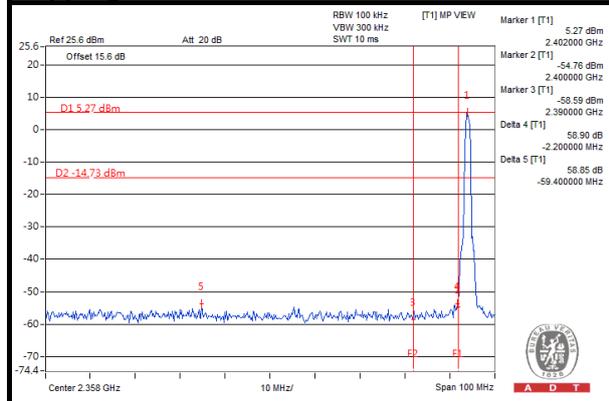




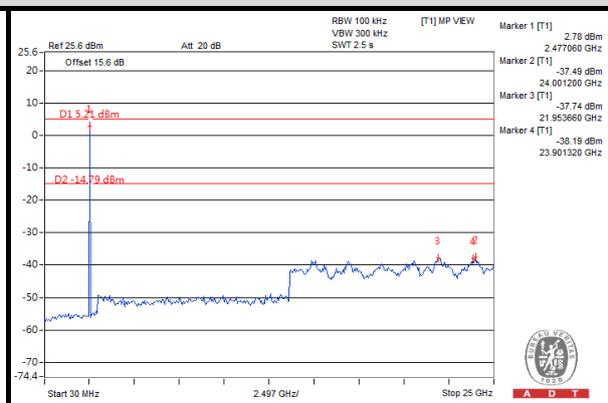
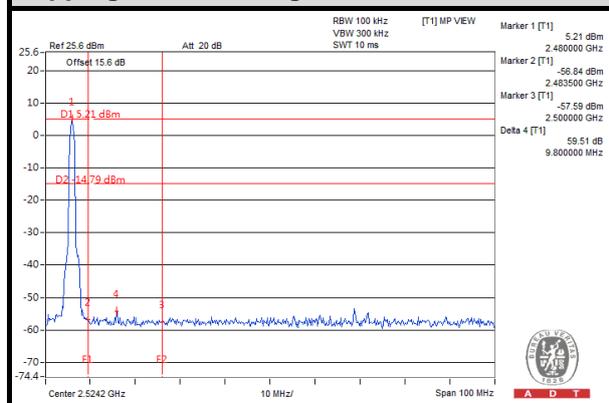
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$\pi/4$ -DQPSK

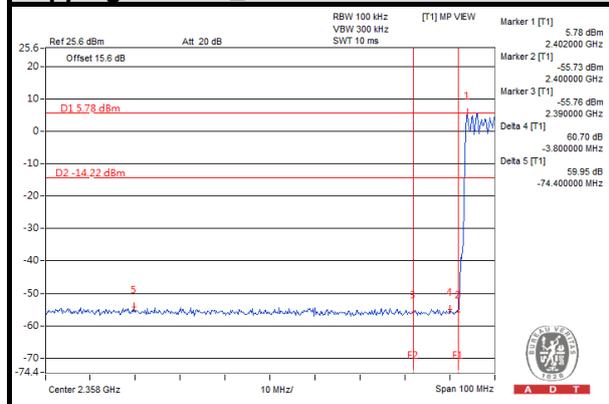
Hopping disabled_ Low Channel



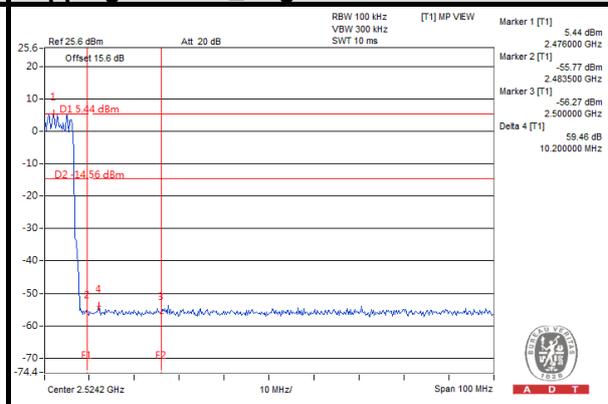
Hopping disabled_ High Channel



Hopping enabled_ Low Channel



Hopping enabled_ High Channel

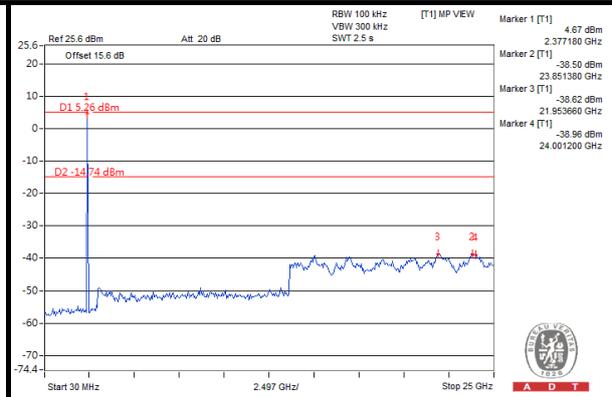
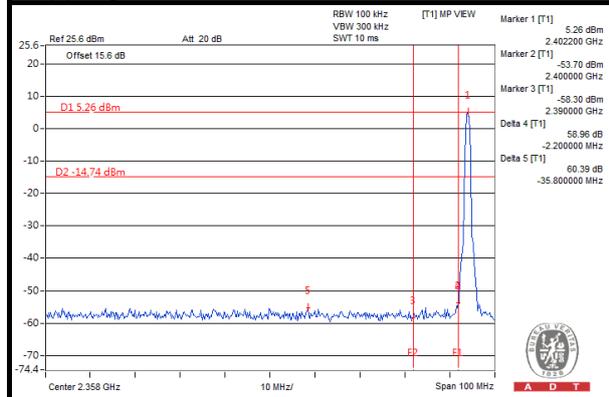




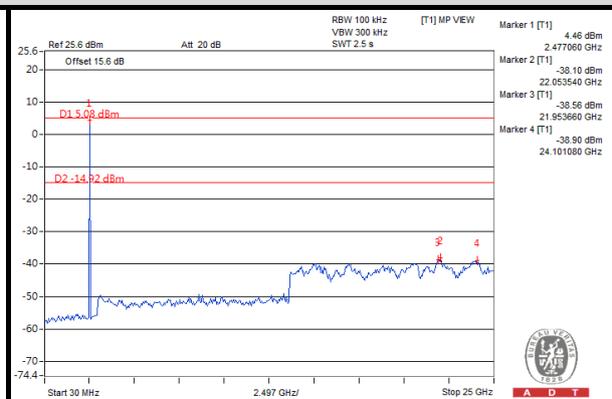
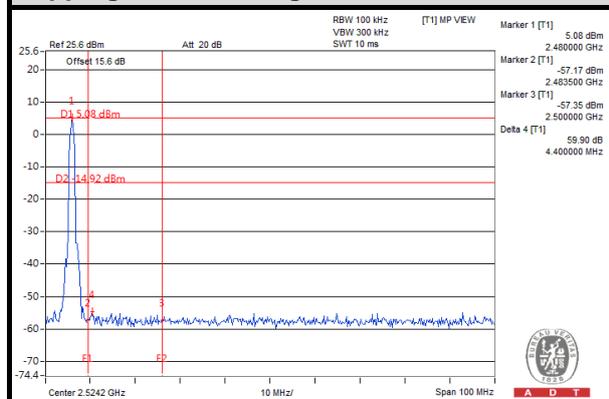
A D T

8DPSK

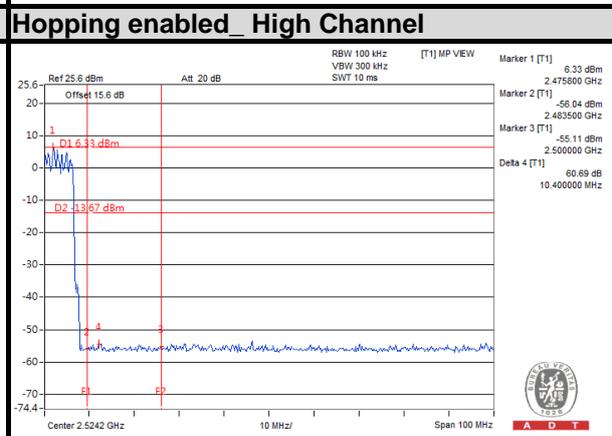
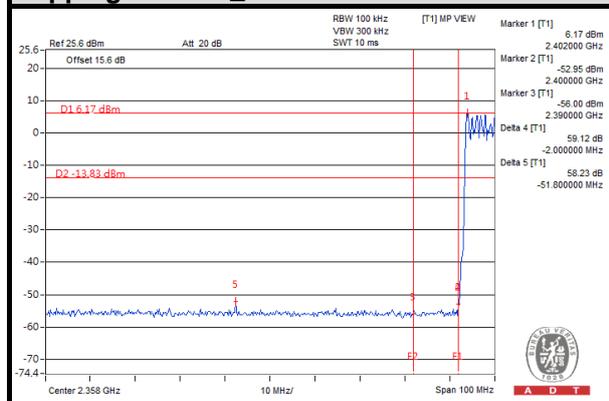
Hopping disabled_ Low Channel



Hopping disabled_ High Channel



Hopping enabled_ Low Channel





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5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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





6. 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 accredited and approved according to ISO/IEC 17025.

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

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Fax: 886-3-3270892

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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7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---