

FCC TEST REPORT

(Bluetooth)

REPORT NO.: RF130830C20-1

MODEL NO.: TF502T

FCC ID: MSQTF502T

RECEIVED: Aug. 30, 2013

TESTED: Sep. 09 ~ Sep. 16, 2013

ISSUED: Sep. 18, 2013

APPLICANT: ASUSTeK Computer Inc

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130830C20-1	Original release	Sep. 18, 2013

1. CERTIFICATION

PRODUCT: ASUS Tablet
MODEL NO.: TF502T
BRAND: ASUS
APPLICANT: ASUSTeK Computer Inc
TESTED: Sep. 09 ~ Sep. 16, 2013
TEST SAMPLE: ENGINEERING SAMPLE
STANDARDS: **FCC Part 15, Subpart C (Section 15.247)**
ANSI C63.10-2009

The above equipment (model: TF502T) 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 :  , **DATE** : Sep. 18, 2013
Pettie Chen / Senior Specialist

APPROVED BY :  , **DATE** : Sep. 18, 2013
Ken Liu / Senior 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 -11.11dB at 0.18906MHz.
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 -2.5dB at 30.00MHz.
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 emission	150kHz ~ 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.	TF502T
POWER SUPPLY	3.7Vdc from battery 15Vdc from adapter 5Vdc from host equipment
MODULATION TYPE	GFSK, $\pi/4$ -DQPSK, 8DPSK
MODULATION TECHNOLOGY	FHSS
TRANSFER RATE	1/2/3Mbps
OPERATING FREQUENCY	2402 ~ 2480MHz
NUMBER OF CHANNEL	79
MAX. OUTPUT POWER	5.781mW
ANTENNA TYPE	PIFA antenna with 2.3dBi gain
ANTENNA CONNECTOR	N/A
I/O PORTS	1.5m shielded USB cable without core
DATA CABLE	Refer to user's manual
ACCESSORY DEVICES	Adapter, USB kit (Brand: KUANG, Model: ROR-USB60-00)

NOTE:

1. The EUT consumes power from the following battery & adapters.

NO.	PRODUCT	BRAND	MODEL	DESCRIPTION
1	Adapter 1	ASUS	ADP-18BW A	I/P: 100~240Vac, 50-60Hz, 0.5A O/P: 15Vdc, 1.2A (Class II), 40°C
2	Adapter 2	ASUS	ADP-18BW B	I/P: 100~240Vac, 50-60Hz, 0.5A O/P: 15Vdc, 1.2A (Class II), 40°C
3	Adapter 3	ASUS	AD8273	I/P: 100~240Vac, 50-60Hz, 0.5A O/P: 15Vdc, 1.2A (Class II), 40°C
4	Battery	ASUS	C12-TF600T	Rating: 3.7Vdc, 6760mAh, 25Wh

2. 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 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	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	
A	√	√	√	√	Power from Adapter 1
B	-	√	√	-	Power from Adapter 2
C	-	√	√	-	Power from Adapter 3
D	-	√	-	-	EUT with Mobile Dock
E	-	√	-	-	EUT standalone
F	-	√	-	-	EUT with USB dongle
G	-	√	√	-	EUT with Mobile Dock & Adapter 1
H	-	√	√	-	EUT with Mobile Dock & Adapter 2
I	-	√	√	-	EUT with Mobile Dock & Adapter 3

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:

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

NOTE: "-" means no effect.

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.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A	0 to 78	0, 39, 78	FHSS	GFSK	DH5
A	0 to 78	0, 39, 78	FHSS	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.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A, B, C, D, E, F, G, H, I	0 to 78	39	FHSS	GFSK	DH5



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POWER LINE CONDUCTED EMISSION:

- ☒ 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.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A, B, C, G, H, I	0 to 78	39	FHSS	GFSK	DH5

BANDEDGE MEASUREMENT:

- ☒ 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.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A	0 to 78	0, 78	FHSS	GFSK	DH5
A	0 to 78	0, 78	FHSS	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.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
A	0 to 78	0, 39, 78	FHSS	GFSK	DH5
A	0 to 78	0, 39, 78	FHSS	8DPSK	DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE $\geq$ 1G	25deg. C, 65%RH	120Vac, 60Hz	Match Tsui
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Match Tsui
PLC	26deg. C, 60%RH	120Vac, 60Hz	Jones Chang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Antony Lee

3.3 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	Mobile Dock	ASUS	AD03	NA	FCC DoC Approved
2	USB dongle	Transcend	V85	569992-8209	NA

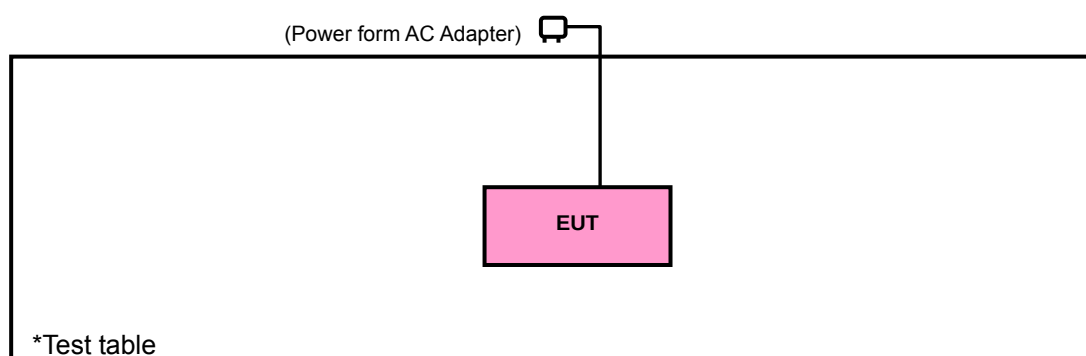
NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	NA

NOTE:

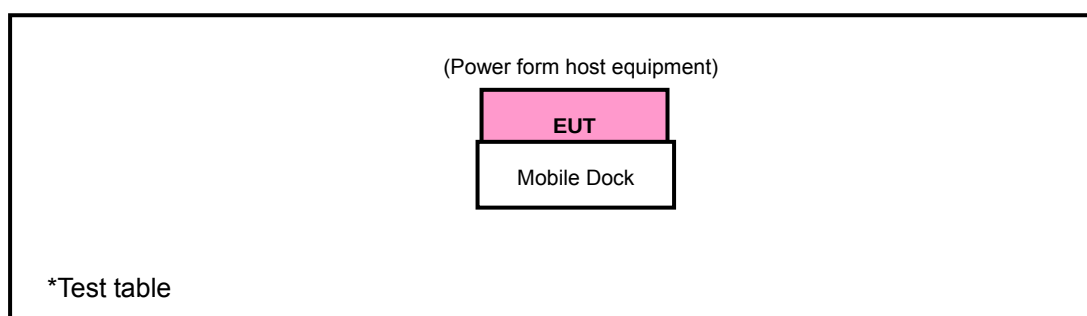
1. All power cords of the above support units are non-shielded (1.8 m).
2. Item 1 was provided by client.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST

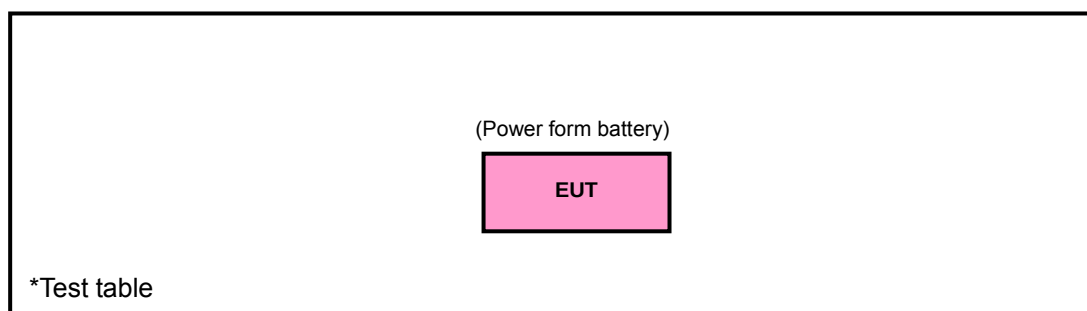
Test Mode A, B, C



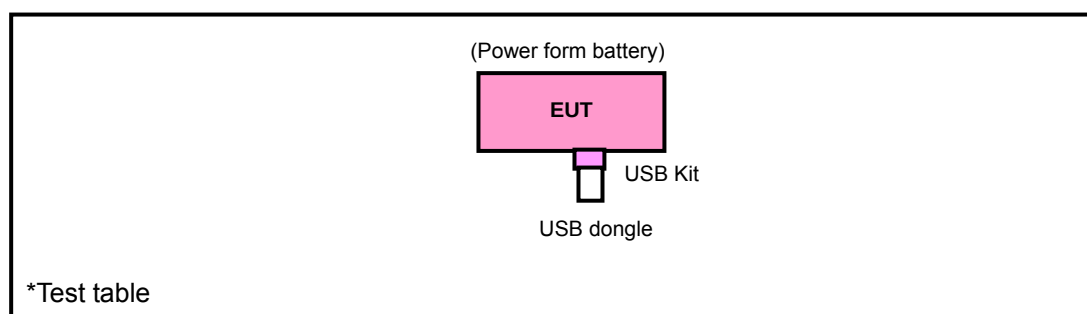
Test Mode D



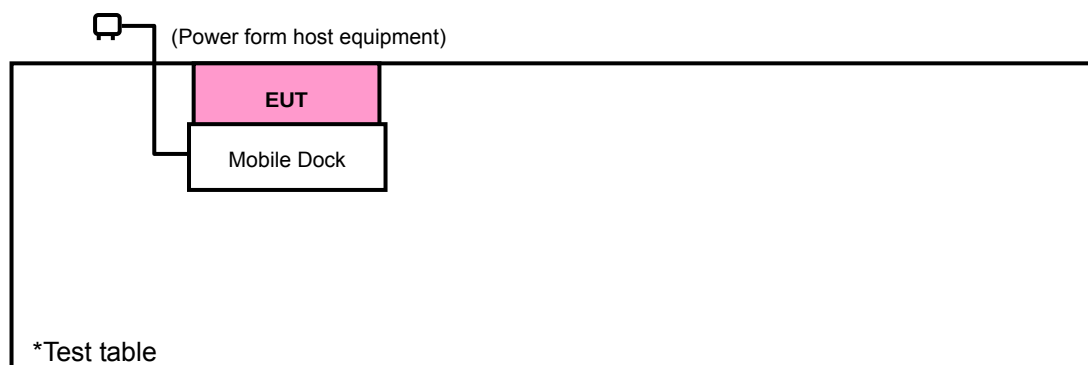
Test Mode E



Test Mode F



Test Mode G, H, I



3.4 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)

FCC Public Notice DA 00-705

ANSI C63.10-2009

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 (DoC). The test report has been issued separately.

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE 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	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	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.



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4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Nov. 16, 2012	Nov. 15, 2013
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jan. 28, 2013	Jan. 27, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-156	Mar. 22, 2013	Mar. 21, 2014
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-404	Dec. 22, 2012	Dec. 21, 2013
HORN Antenna SCHWARZBECK	BBHA 9170	148	Jul. 15, 2013	Jul. 14, 2014
Loop Antenna	HFH2-Z2	100070	Jan. 31, 2012	Jan. 30, 2014
Preamplifier Agilent	8449B	3008A01911	Oct. 25, 2012	Oct. 24, 2013
Preamplifier Agilent	8447D	2944A10638	Oct. 25, 2012	Oct. 24, 2013
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309222/4 248780/4 274392/4	Aug. 22, 2013	Aug. 21, 2014
RF signal cable Worken	8D-FB	Cable-HYCH9-01	Aug. 11, 2013	Aug. 10, 2014
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn Table Controller EMCO	2090	NA	NA	NA
Turn Table ADT.	TT100.	TT93021704	NA	NA
Turn Table Controller ADT.	SC100.	SC93021704	NA	NA
High Speed Peak Power Meter	ML2495A	0824011	Jul. 29, 2013	Jul. 28, 2014
Power Sensor	MA2411B	0738171	Jul. 29, 2013	Jul. 28, 2014

- 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 9.
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 460141.
6. The IC Site Registration No. is IC 7450F-4.

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:

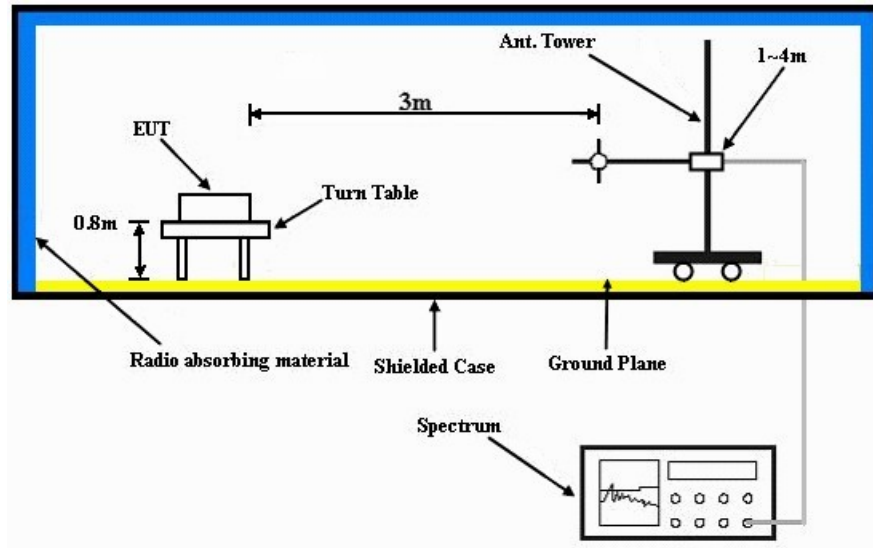
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 DEVIATION FROM TEST STANDARD

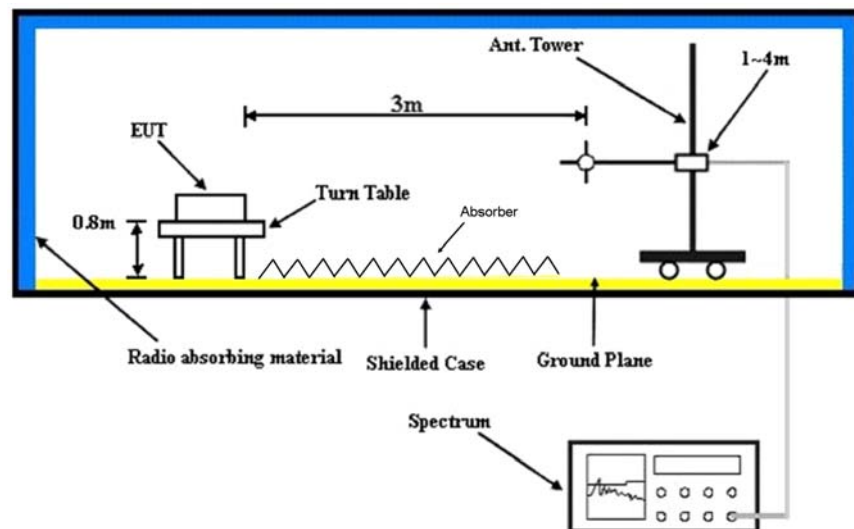
No deviation.

4.1.5 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



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

4.1.6 EUT OPERATING CONDITIONS

Test Mode A~C, E

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

Test Mode D, G, H, I

- a. Plugged the EUT into the mobile dock and placed them on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enabled the system in full functions.

Test Mode F

- a. Plugged the USB dongle into the EUT via the USB kit and placed them on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enabled the system in full functions.

4.1.7 TEST RESULTS

ABOVE 1GHz DATA :

GFSK

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 0	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	43.2 PK	74.0	-30.8	1.39 H	37	46.70	-3.50
2	2390.00	32.6 AV	54.0	-21.4	1.39 H	37	36.10	-3.50
3	#2400.00	46.8 PK	84.6	-37.8	1.39 H	37	50.20	-3.40
4	#2400.00	16.7 AV	54.5	-37.8	1.39 H	37	20.10	-3.40
5	*2402.00	104.6 PK			1.39 H	37	71.10	33.50
6	*2402.00	74.5 AV			1.39 H	37	41.00	33.50
7	4804.00	50.7 PK	74.0	-23.3	1.00 H	91	47.10	3.60
8	4804.00	20.6 AV	54.0	-33.4	1.00 H	91	17.00	3.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. The DH5 packet was the worse 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
7. Average value = peak reading + $20\log(\text{duty cycle})$
8. "#":The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 0	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	40.2 PK	74.0	-33.8	1.03 V	277	43.60	-3.40
2	2390.00	30.0 AV	54.0	-24.0	1.03 V	277	33.40	-3.40
3	#2400.00	37.0 PK	77.3	-40.3	1.03 V	277	40.20	-3.20
4	#2400.00	6.9 AV	47.2	-40.3	1.03 V	277	10.10	-3.20
5	*2402.00	97.3 PK			1.03 V	277	63.60	33.70
6	*2402.00	67.2 AV			1.03 V	277	33.50	33.70
7	4804.00	49.4 PK	74.0	-24.6	1.00 V	132	46.80	2.60
8	4804.00	19.3 AV	54.0	-34.7	1.00 V	132	16.70	2.60

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. The DH5 packet was the worse 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
7. Average value = peak reading + $20\log(\text{duty cycle})$
8. "#":The radiated frequency is out the restricted band.



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	104.9 PK			1.38 H	37	71.10	33.80
2	*2441.00	74.8 AV			1.38 H	37	41.00	33.80
3	4882.00	50.9 PK	74.0	-23.1	1.00 H	101	48.10	2.80
4	4882.00	20.8 AV	54.0	-33.2	1.00 H	101	18.00	2.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	97.4 PK			1.01 V	272	63.60	33.80
2	*2441.00	67.3 AV			1.01 V	272	33.50	33.80
3	4882.00	49.7 PK	74.0	-24.3	1.00 V	128	46.90	2.80
4	4882.00	19.6 AV	54.0	-34.4	1.00 V	128	16.80	2.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * ”: Fundamental frequency.
6. The DH5 packet was the worse 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
7. Average value = peak reading + $20\log(\text{duty cycle})$



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 78	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	103.1 PK			1.34 H	34	69.10	34.00
2	*2480.00	73.0 AV			1.34 H	34	39.00	34.00
3	2483.50	45.5 PK	74.0	-28.5	1.34 H	34	48.40	-2.90
4	2483.50	15.4 AV	54.0	-38.6	1.34 H	34	18.30	-2.90
5	4960.00	50.8 PK	74.0	-23.2	1.01 H	99	47.90	2.90
6	4960.00	20.7 AV	54.0	-33.3	1.01 H	99	17.80	2.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	94.9 PK			1.00 V	277	60.90	34.00
2	*2480.00	64.8 AV			1.00 V	277	30.80	34.00
3	2483.50	37.8 PK	74.0	-36.2	1.00 V	277	40.70	-2.90
4	2483.50	7.7 AV	54.0	-46.3	1.00 V	277	10.60	-2.90
5	4960.00	49.1 PK	74.0	-24.9	1.00 V	141	46.20	2.90
6	4960.00	19.0 AV	54.0	-35.0	1.00 V	141	16.10	2.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. The DH5 packet was the worse 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
7. Average value = peak reading + $20\log(\text{duty cycle})$



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8DPSK

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 0	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	43.4 PK	74.0	-30.6	1.38 H	42	46.80	-3.40
2	2390.00	32.7 AV	54.0	-21.3	1.38 H	42	36.10	-3.40
3	#2400.00	46.3 PK	84.0	-37.7	1.38 H	42	49.50	-3.20
4	#2400.00	16.2 AV	53.9	-37.7	1.38 H	42	19.40	-3.20
5	*2402.00	104.0 PK			1.38 H	42	70.30	33.70
6	*2402.00	73.9 AV			1.38 H	42	40.20	33.70
7	4804.00	50.8 PK	74.0	-23.2	1.04 H	94	48.20	2.60
8	4804.00	20.7 AV	54.0	-33.3	1.04 H	94	18.10	2.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	40.0 PK	74.0	-34.0	1.04 V	274	43.40	-3.40
2	2390.00	29.7 AV	54.0	-24.3	1.04 V	274	33.10	-3.40
3	#2400.00	36.8 PK	76.9	-40.1	1.04 V	274	40.00	-3.20
4	#2400.00	6.7 AV	46.8	-40.1	1.04 V	274	9.90	-3.20
5	*2402.00	96.9 PK			1.04 V	274	100.10	-3.20
6	*2402.00	66.8 AV			1.04 V	274	70.00	-3.20
7	4804.00	49.1 PK	74.0	-24.9	1.00 V	139	46.50	2.60
8	4804.00	19.0 AV	54.0	-35.0	1.00 V	139	16.40	2.60

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- "*": Fundamental frequency.
- The DH5 packet was the worse 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 + $20\log(\text{duty cycle})$
- "#": The radiated frequency is out the restricted band.



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	104.5 PK			1.35 H	44	70.70	33.80
2	*2441.00	74.4 AV			1.35 H	44	40.60	33.80
3	4882.00	50.6 PK	74.0	-23.4	1.00 H	120	47.80	2.80
4	4882.00	20.5 AV	54.0	-33.5	1.00 H	120	17.70	2.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2441.00	97.3 PK			1.03 V	271	63.50	33.80
2	*2441.00	67.2 AV			1.03 V	271	33.40	33.80
3	4882.00	49.6 PK	74.0	-24.4	1.00 V	130	46.80	2.80
4	4882.00	19.5 AV	54.0	-34.5	1.00 V	130	16.70	2.80

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- “ * ”: Fundamental frequency.
- The DH5 packet was the worse 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: $20\log(3.125 / 100) = -30.1 \text{ dB}$
- Average value = peak reading + $20\log(\text{duty cycle})$



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 78	FREQUENCY RANGE	1 ~ 25GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	101.9 PK			1.34 H	35	67.90	34.00
2	*2480.00	71.8 AV			1.34 H	35	37.80	34.00
3	2483.50	44.4 PK	74.0	-29.6	1.34 H	35	47.30	-2.90
4	2483.50	14.3 AV	54.0	-39.7	1.34 H	35	17.20	-2.90
5	4963.00	50.5 PK	74.0	-23.5	1.00 H	109	47.60	2.90
6	4963.00	20.4 AV	54.0	-33.6	1.00 H	109	17.50	2.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	94.2 PK			1.00 V	274	97.10	-2.90
2	*2480.00	64.1 AV			1.00 V	274	67.00	-2.90
3	2483.50	36.8 PK	74.0	-37.2	1.33 V	36	39.70	-2.90
4	2483.50	6.7 AV	54.0	-47.3	1.33 V	36	9.60	-2.90
5	4960.00	48.8 PK	74.0	-25.2	1.00 V	138	45.90	2.90
6	4960.00	18.7 AV	54.0	-35.3	1.00 V	138	15.80	2.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. “ * “: Fundamental frequency.
6. The DH5 packet was the worse 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
7. Average value = peak reading + $20\log(\text{duty cycle})$



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BELOW 1GHz WORST-CASE DATA : GFSK

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.94	34.0 QP	40.0	-6.0	1.00 H	359	50.50	-16.50
2	115.36	25.5 QP	43.5	-18.0	1.99 H	109	42.20	-16.70
3	780.78	28.2 QP	46.0	-17.8	1.00 H	316	31.10	-2.90
4	864.20	29.6 QP	46.0	-16.4	1.99 H	96	30.90	-1.30
5	904.94	30.0 QP	46.0	-16.0	1.99 H	15	30.70	-0.70
6	920.46	30.6 QP	46.0	-15.4	1.00 H	358	30.90	-0.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	37.5 QP	40.0	-2.5	1.00 V	14	53.10	-15.60
2	807.94	28.7 QP	46.0	-17.3	1.00 V	295	31.20	-2.50
3	821.52	30.4 QP	46.0	-15.6	1.00 V	13	32.70	-2.30
4	906.88	29.6 QP	46.0	-16.4	1.00 V	13	30.20	-0.60
5	935.98	30.2 QP	46.0	-15.8	1.00 V	13	30.20	0.00
6	949.56	31.7 QP	46.0	-14.3	2.00 V	242	31.50	0.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	34.4 QP	40.0	-5.6	1.00 H	37	50.00	-15.60
2	804.06	28.6 QP	46.0	-17.4	1.00 H	8	31.30	-2.70
3	840.92	30.1 QP	46.0	-15.9	1.49 H	9	31.90	-1.80
4	862.26	29.2 QP	46.0	-16.8	1.00 H	350	30.60	-1.40
5	891.36	29.4 QP	46.0	-16.6	1.00 H	273	30.50	-1.10
6	935.98	30.8 QP	46.0	-15.2	1.00 H	102	30.80	0.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	36.3 QP	40.0	-3.7	1.50 V	187	51.90	-15.60
2	765.26	29.6 QP	46.0	-16.4	1.01 V	15	32.70	-3.10
3	807.94	28.3 QP	46.0	-17.7	1.50 V	79	30.80	-2.50
4	831.22	28.7 QP	46.0	-17.3	1.01 V	258	30.70	-2.00
5	856.44	29.6 QP	46.0	-16.4	1.01 V	266	31.10	-1.50
6	908.82	30.7 QP	46.0	-15.3	1.01 V	172	31.20	-0.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	35.5 QP	40.0	-4.5	1.00 H	79	51.10	-15.60
2	99.84	26.7 QP	43.5	-16.8	1.99 H	99	45.50	-18.80
3	794.36	28.7 QP	46.0	-17.3	1.99 H	22	31.60	-2.90
4	899.12	29.8 QP	46.0	-16.2	1.99 H	0	30.60	-0.80
5	930.16	30.0 QP	46.0	-16.0	1.00 H	127	30.10	-0.10
6	959.26	30.9 QP	46.0	-15.1	1.99 H	12	30.60	0.30
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	37.5 QP	40.0	-2.5	2.00 V	332	53.10	-15.60
2	62.98	25.3 QP	40.0	-14.7	1.01 V	156	40.00	-14.70
3	765.26	28.7 QP	46.0	-17.3	2.00 V	16	31.80	-3.10
4	875.84	28.7 QP	46.0	-17.3	2.00 V	13	29.90	-1.20
5	903.00	29.2 QP	46.0	-16.8	1.01 V	80	30.00	-0.80
6	943.74	31.2 QP	46.0	-14.8	1.01 V	10	31.10	0.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



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EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	D		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	32.0 QP	40.0	-8.0	1.01 H	313	47.60	-15.60
2	780.78	28.1 QP	46.0	-17.9	1.01 H	15	31.00	-2.90
3	838.98	28.8 QP	46.0	-17.2	1.01 H	15	30.60	-1.80
4	895.24	29.8 QP	46.0	-16.2	1.50 H	106	30.70	-0.90
5	930.16	30.5 QP	46.0	-15.5	1.01 H	253	30.60	-0.10
6	949.56	30.8 QP	46.0	-15.2	1.01 H	54	30.60	0.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.94	36.9 QP	40.0	-3.1	1.49 V	74	53.40	-16.50
2	769.14	28.3 QP	46.0	-17.7	1.49 V	258	31.30	-3.00
3	838.98	29.1 QP	46.0	-16.9	1.00 V	204	30.90	-1.80
4	866.14	29.1 QP	46.0	-16.9	1.00 V	321	30.40	-1.30
5	885.54	29.3 QP	46.0	-16.7	1.49 V	147	30.40	-1.10
6	955.38	30.9 QP	46.0	-15.1	1.49 V	15	30.50	0.40

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	E		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	738.10	27.0 QP	46.0	-19.0	1.49 H	26	30.90	-3.90
2	769.14	28.7 QP	46.0	-17.3	1.00 H	130	31.70	-3.00
3	802.12	28.2 QP	46.0	-17.8	1.49 H	63	30.90	-2.70
4	848.68	30.0 QP	46.0	-16.0	1.24 H	183	31.80	-1.80
5	877.78	30.4 QP	46.0	-15.6	1.00 H	238	31.70	-1.30
6	932.10	31.8 QP	46.0	-14.2	1.00 H	178	31.90	-0.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	769.14	28.4 QP	46.0	-17.6	1.24 V	172	31.40	-3.00
2	809.88	28.2 QP	46.0	-17.8	1.24 V	180	30.70	-2.50
3	838.98	29.4 QP	46.0	-16.6	1.24 V	138	31.20	-1.80
4	860.32	29.5 QP	46.0	-16.5	1.24 V	295	30.90	-1.40
5	910.76	30.5 QP	46.0	-15.5	1.49 V	11	31.00	-0.50
6	941.80	30.9 QP	46.0	-15.1	1.24 V	261	31.00	-0.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Match Tsui
TEST MODE	F		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	738.10	27.0 QP	46.0	-19.0	1.49 H	26	30.90	-3.90
2	769.14	28.7 QP	46.0	-17.3	1.00 H	130	31.70	-3.00
3	802.12	28.2 QP	46.0	-17.8	1.49 H	63	30.90	-2.70
4	848.68	30.0 QP	46.0	-16.0	1.24 H	183	31.80	-1.80
5	877.78	30.4 QP	46.0	-15.6	1.00 H	238	31.70	-1.30
6	932.10	31.8 QP	46.0	-14.2	1.00 H	178	31.90	-0.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	769.14	28.4 QP	46.0	-17.6	1.24 V	172	31.40	-3.00
2	809.88	28.2 QP	46.0	-17.8	1.24 V	180	30.70	-2.50
3	838.98	29.4 QP	46.0	-16.6	1.24 V	138	31.20	-1.80
4	860.32	29.5 QP	46.0	-16.5	1.24 V	295	30.90	-1.40
5	910.76	30.5 QP	46.0	-15.5	1.49 V	11	31.00	-0.50
6	941.80	30.9 QP	46.0	-15.1	1.24 V	261	31.00	-0.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui
TEST MODE	G		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	111.48	26.8 QP	43.5	-16.7	1.00 H	254	43.90	-17.10
2	776.90	28.1 QP	46.0	-17.9	1.99 H	9	31.10	-3.00
3	809.88	28.2 QP	46.0	-17.8	1.00 H	256	30.70	-2.50
4	866.14	29.5 QP	46.0	-16.5	1.99 H	245	30.80	-1.30
5	897.18	29.9 QP	46.0	-16.1	1.00 H	279	30.70	-0.80
6	908.82	31.2 QP	46.0	-14.8	1.99 H	1	31.70	-0.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	117.30	26.9 QP	43.5	-16.6	1.00 V	328	43.20	-16.30
2	778.84	28.2 QP	46.0	-17.8	1.00 V	10	31.10	-2.90
3	833.16	29.8 QP	46.0	-16.2	2.00 V	266	31.80	-2.00
4	864.20	29.8 QP	46.0	-16.2	1.00 V	10	31.10	-1.30
5	906.88	29.7 QP	46.0	-16.3	2.00 V	158	30.30	-0.60
6	932.10	30.8 QP	46.0	-15.2	2.00 V	50	30.90	-0.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui
TEST MODE	H		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	773.02	28.0 QP	46.0	-18.0	2.00 H	18	30.90	-2.90
2	786.60	28.0 QP	46.0	-18.0	2.00 H	247	30.90	-2.90
3	875.84	29.6 QP	46.0	-16.4	1.50 H	123	30.80	-1.20
4	897.18	29.8 QP	46.0	-16.2	2.00 H	337	30.60	-0.80
5	924.34	30.5 QP	46.0	-15.5	2.00 H	214	30.80	-0.30
6	947.62	30.7 QP	46.0	-15.3	2.00 H	18	30.60	0.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	709.00	27.8 QP	46.0	-18.2	1.51 V	172	32.50	-4.70
2	767.20	28.2 QP	46.0	-17.8	1.51 V	15	31.30	-3.10
3	823.46	28.6 QP	46.0	-17.4	1.51 V	133	30.80	-2.20
4	885.54	30.0 QP	46.0	-16.0	1.51 V	15	31.10	-1.10
5	937.92	30.9 QP	46.0	-15.1	1.51 V	200	30.90	0.00
6	955.38	31.5 QP	46.0	-14.5	2.00 V	314	31.10	0.40

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



A D T

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 39	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH	TESTED BY	Match Tsui
TEST MODE	I		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	119.24	27.5 QP	43.5	-16.0	1.50 H	72	43.80	-16.30
2	804.06	28.5 QP	46.0	-17.5	1.50 H	15	31.20	-2.70
3	815.70	29.1 QP	46.0	-16.9	1.50 H	15	31.40	-2.30
4	864.20	29.8 QP	46.0	-16.2	1.50 H	15	31.10	-1.30
5	903.00	29.7 QP	46.0	-16.3	1.50 H	111	30.50	-0.80
6	934.04	30.6 QP	46.0	-15.4	1.50 H	15	30.70	-0.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.84	25.9 QP	43.5	-17.6	1.01 V	274	44.70	-18.80
2	807.94	28.2 QP	46.0	-17.8	1.50 V	350	30.70	-2.50
3	873.90	29.9 QP	46.0	-16.1	1.01 V	338	31.10	-1.20
4	889.42	29.6 QP	46.0	-16.4	1.01 V	212	30.70	-1.10
5	932.10	31.4 QP	46.0	-14.6	1.01 V	82	31.50	-0.10
6	949.56	30.8 QP	46.0	-15.2	1.50 V	203	30.60	0.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
– Pre-Amplifier Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	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 0.50MHz.
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. 17, 2013	Jul. 16, 2014
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

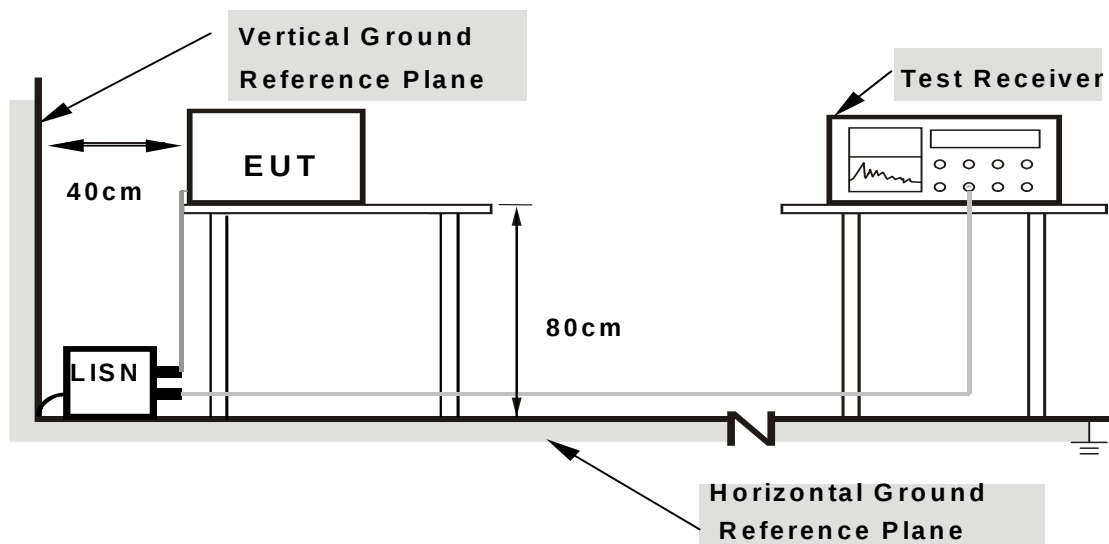
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling 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.

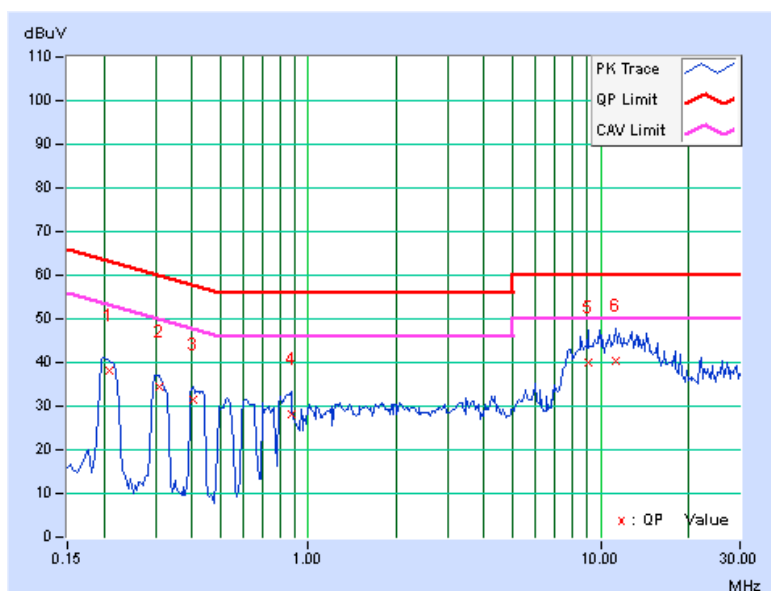
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : GFSK

PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20859	0.20	37.82	26.90	38.02	27.10	63.26	53.26	-25.24	-26.16
2	0.31016	0.21	34.09	21.89	34.30	22.10	59.97	49.97	-25.67	-27.87
3	0.40391	0.22	31.18	20.75	31.40	20.97	57.77	47.77	-26.37	-26.80
4	0.87266	0.28	28.04	14.08	28.32	14.36	56.00	46.00	-27.68	-31.64
5	9.07031	0.48	39.66	29.10	40.14	29.58	60.00	50.00	-19.86	-20.42
6	11.25781	0.52	39.77	28.81	40.29	29.33	60.00	50.00	-19.71	-20.67

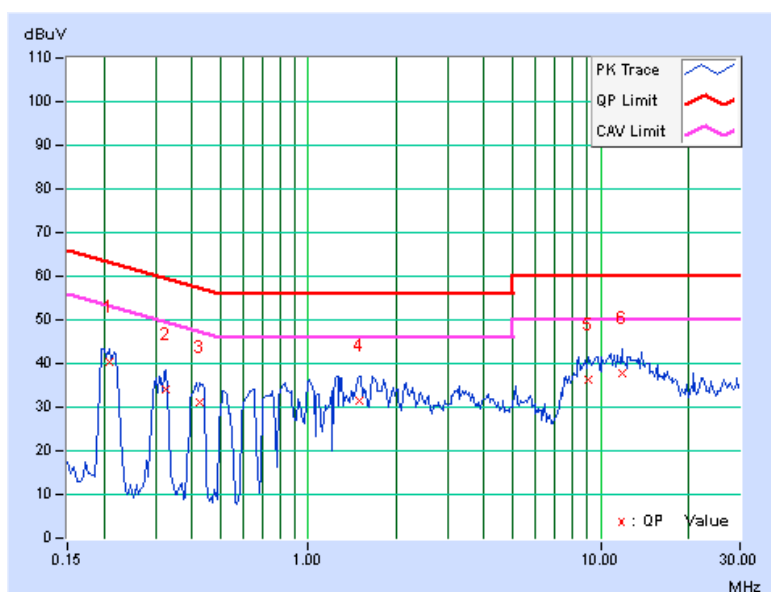
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.20859	0.19	40.11	27.52	40.30	27.71	63.26	53.26	-22.96	-25.55
2	0.32578	0.24	33.75	19.55	33.99	19.79	59.56	49.56	-25.57	-29.77
3	0.42344	0.27	30.84	17.69	31.11	17.96	57.38	47.38	-26.27	-29.42
4	1.50000	0.29	31.26	15.01	31.55	15.30	56.00	46.00	-24.45	-30.70
5	9.12500	0.55	35.86	26.48	36.41	27.03	60.00	50.00	-23.59	-22.97
6	11.80078	0.62	37.15	28.88	37.77	29.50	60.00	50.00	-22.23	-20.50

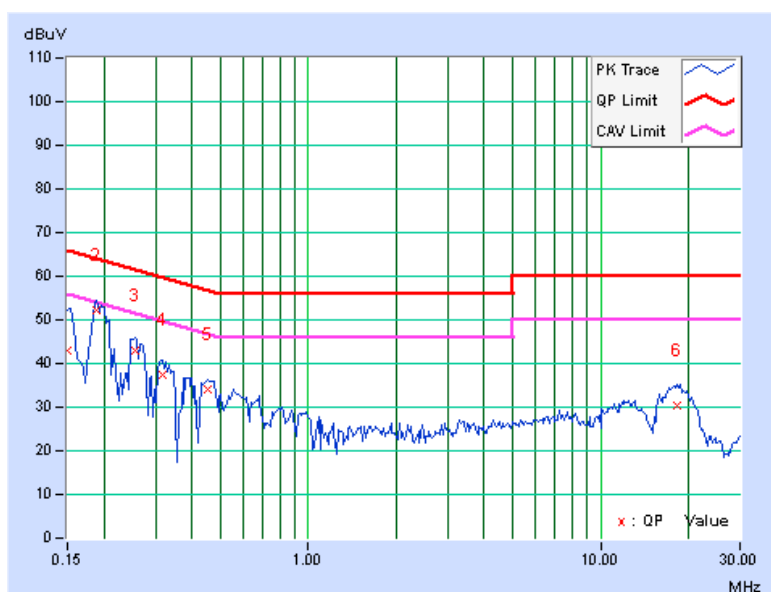
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.19	42.88	16.24	43.07	16.43	66.00	56.00	-22.93	-39.57
2	0.18906	0.20	51.85	38.61	52.05	38.81	64.08	54.08	-12.03	-15.27
3	0.25547	0.21	42.63	29.85	42.84	30.06	61.58	51.58	-18.74	-21.52
4	0.31797	0.21	37.36	27.18	37.57	27.39	59.76	49.76	-22.19	-22.37
5	0.45078	0.23	33.79	21.44	34.02	21.67	56.86	46.86	-22.84	-25.19
6	18.26953	0.69	29.85	25.28	30.54	25.97	60.00	50.00	-29.46	-24.03

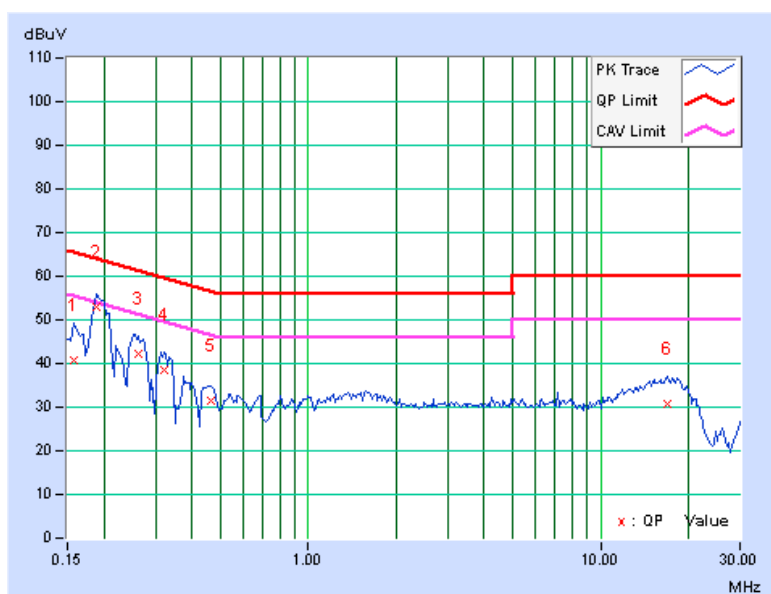
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	0.19	40.40	15.05	40.59	15.24	65.58	55.58	-24.98	-40.33
2	0.18906	0.19	52.78	39.26	52.97	39.45	64.08	54.08	-11.11	-14.63
3	0.26328	0.22	42.17	28.82	42.39	29.04	61.33	51.33	-18.94	-22.29
4	0.32188	0.24	38.21	25.59	38.45	25.83	59.66	49.66	-21.21	-23.83
5	0.46641	0.27	31.24	17.87	31.51	18.14	56.58	46.58	-25.07	-28.44
6	16.93359	0.74	30.08	25.58	30.82	26.32	60.00	50.00	-29.18	-23.68

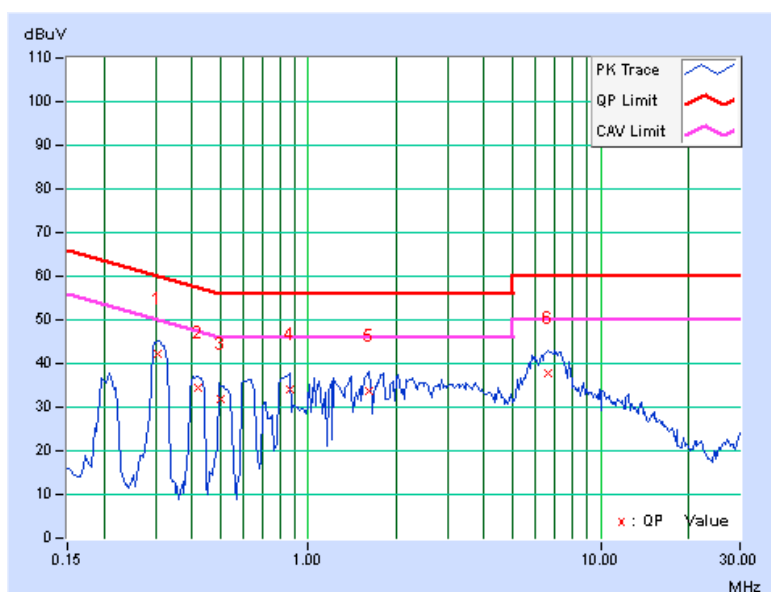
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	C		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.30625	0.21	42.05	28.05	42.26	28.26	60.07	50.07	-17.81	-21.81
2	0.41953	0.22	34.25	22.21	34.47	22.43	57.46	47.46	-22.99	-25.03
3	0.50462	0.23	31.56	16.97	31.79	17.20	56.00	46.00	-24.21	-28.80
4	0.86484	0.27	33.64	16.28	33.91	16.55	56.00	46.00	-22.09	-29.45
5	1.61719	0.31	33.44	17.78	33.75	18.09	56.00	46.00	-22.25	-27.91
6	6.61719	0.44	37.37	22.01	37.81	22.45	60.00	50.00	-22.19	-27.55

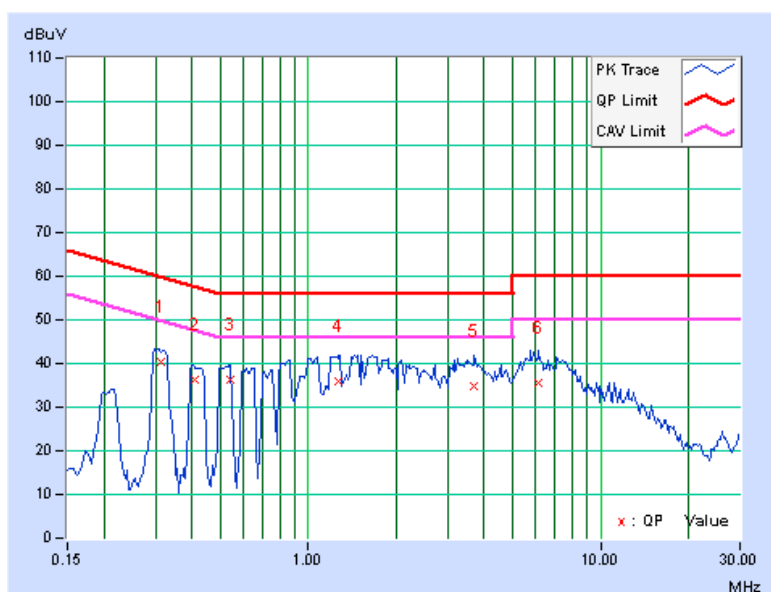
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	C		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.31419	0.24	40.12	29.47	40.36	29.71	59.86	49.86	-19.50	-20.15
2	0.40781	0.27	35.88	23.99	36.15	24.26	57.69	47.69	-21.54	-23.43
3	0.54453	0.27	36.11	16.97	36.38	17.24	56.00	46.00	-19.62	-28.76
4	1.26172	0.28	35.76	15.99	36.04	16.27	56.00	46.00	-19.96	-29.73
5	3.70313	0.43	34.31	17.94	34.74	18.37	56.00	46.00	-21.26	-27.63
6	6.12500	0.49	34.98	18.35	35.47	18.84	60.00	50.00	-24.53	-31.16

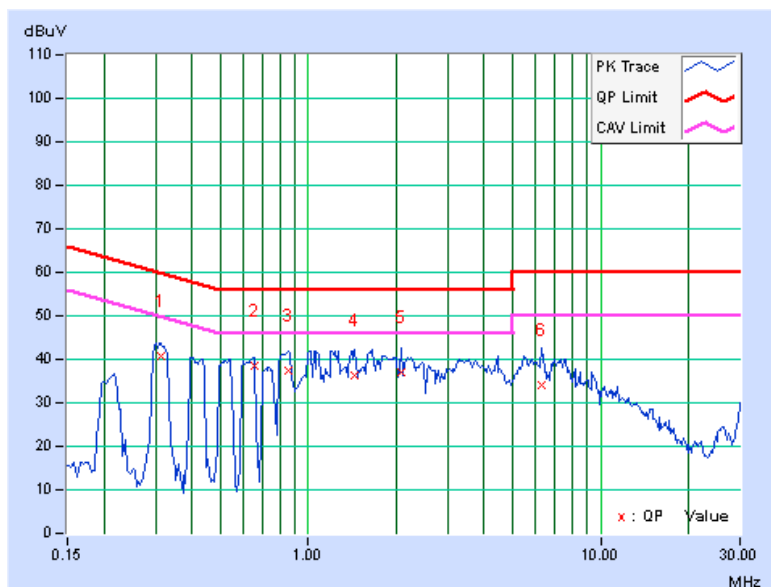
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	G		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.31406	0.21	40.56	29.71	40.77	29.92	59.86	49.86	-19.09	-19.94
2	0.65391	0.25	38.09	19.34	38.34	19.59	56.00	46.00	-17.66	-26.41
3	0.85703	0.27	37.31	21.34	37.58	21.61	56.00	46.00	-18.42	-24.39
4	1.44531	0.30	35.88	14.03	36.18	14.33	56.00	46.00	-19.82	-31.67
5	2.07031	0.32	36.64	19.44	36.96	19.76	56.00	46.00	-19.04	-26.24
6	6.32031	0.43	33.80	18.78	34.23	19.21	60.00	50.00	-25.77	-30.79

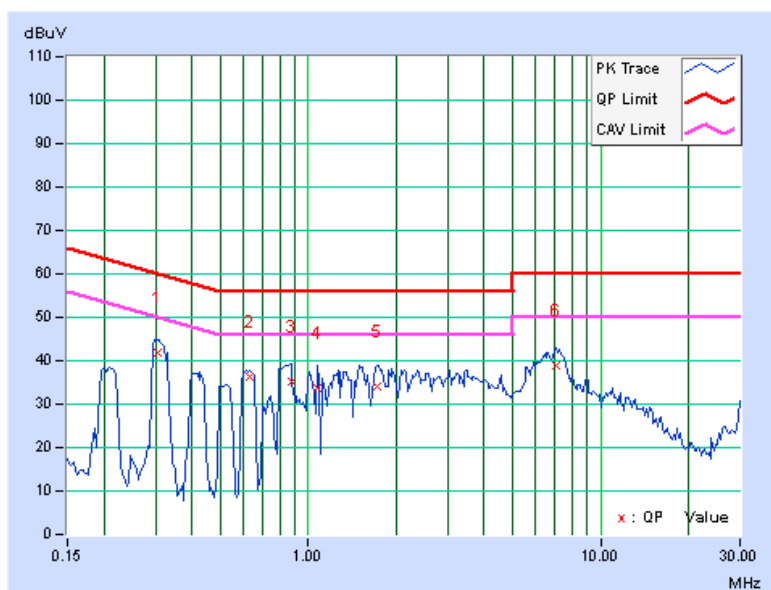
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	G		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.30625	0.23	41.72	29.19	41.95	29.42	60.07	50.07	-18.12	-20.65
2	0.63047	0.27	36.14	21.69	36.41	21.96	56.00	46.00	-19.59	-24.04
3	0.87266	0.26	35.08	14.42	35.34	14.68	56.00	46.00	-20.66	-31.32
4	1.07813	0.26	33.40	14.84	33.66	15.10	56.00	46.00	-22.34	-30.90
5	1.71484	0.30	33.86	17.62	34.16	17.92	56.00	46.00	-21.84	-28.08
6	7.02344	0.51	38.27	24.07	38.78	24.58	60.00	50.00	-21.22	-25.42

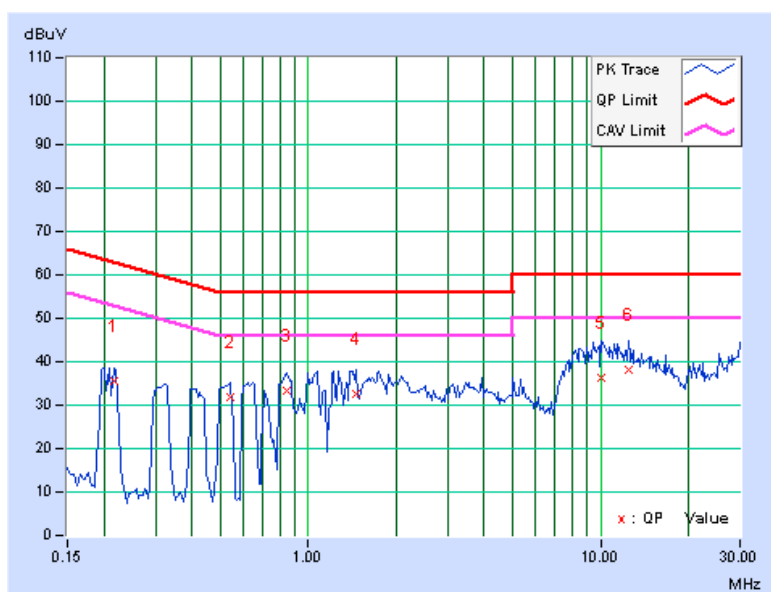
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	H		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.21641	0.20	35.47	20.44	35.67	20.64	62.96	52.96	-27.28	-32.31
2	0.54063	0.24	31.43	14.88	31.67	15.12	56.00	46.00	-24.33	-30.88
3	0.84922	0.27	33.08	16.46	33.35	16.73	56.00	46.00	-22.65	-29.27
4	1.46094	0.30	32.19	10.81	32.49	11.11	56.00	46.00	-23.51	-34.89
5	10.10547	0.49	35.80	27.92	36.29	28.41	60.00	50.00	-23.71	-21.59
6	12.46094	0.55	37.67	28.49	38.22	29.04	60.00	50.00	-21.78	-20.96

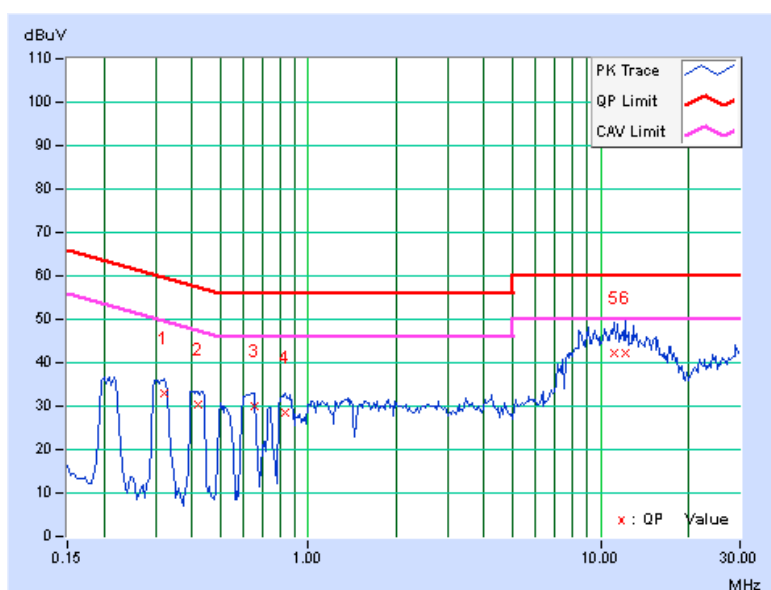
- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	H		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.32188	0.24	32.68	19.49	32.92	19.73	59.66	49.66	-26.74	-29.93
2	0.41953	0.27	29.98	17.05	30.25	17.32	57.46	47.46	-27.21	-30.14
3	0.65391	0.27	29.61	12.86	29.88	13.13	56.00	46.00	-26.12	-32.87
4	0.83750	0.26	28.08	13.14	28.34	13.40	56.00	46.00	-27.66	-32.60
5	11.14844	0.60	41.77	33.43	42.37	34.03	60.00	50.00	-17.63	-15.97
6	12.13281	0.62	41.49	30.89	42.11	31.51	60.00	50.00	-17.89	-18.49

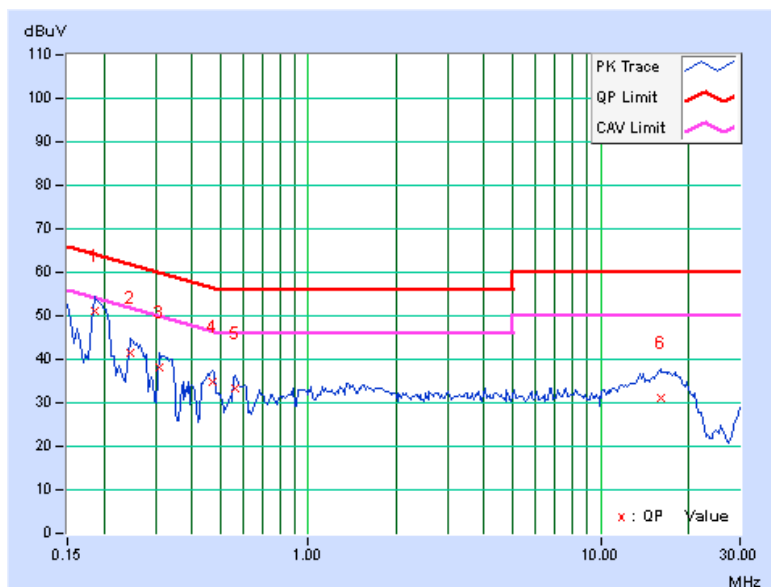
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 1	6dB BANDWIDTH	9kHz
TEST MODE	I		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.20	50.91	34.45	51.11	34.65	64.25	54.25	-13.15	-19.61
2	0.24766	0.20	41.31	26.80	41.51	27.00	61.84	51.84	-20.32	-24.83
3	0.31016	0.21	37.77	23.71	37.98	23.92	59.97	49.97	-21.99	-26.05
4	0.47031	0.23	34.56	20.77	34.79	21.00	56.51	46.51	-21.72	-25.51
5	0.56016	0.24	32.94	19.53	33.18	19.77	56.00	46.00	-22.82	-26.23
6	16.06250	0.64	30.52	25.66	31.16	26.30	60.00	50.00	-28.84	-23.70

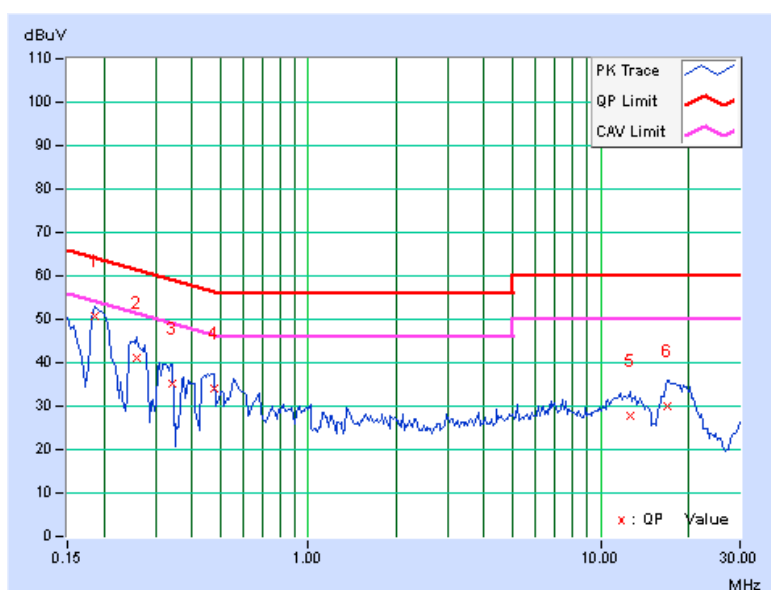
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



PHASE	Line 2	6dB BANDWIDTH	9kHz
TEST MODE	I		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]	(dB)	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	0.19	50.37	34.43	50.56	34.62	64.25	54.25	-13.69	-19.63
2	0.25938	0.21	40.76	28.35	40.97	28.56	61.45	51.45	-20.48	-22.89
3	0.34141	0.25	35.07	19.74	35.32	19.99	59.17	49.17	-23.85	-29.18
4	0.47813	0.27	33.90	16.36	34.17	16.63	56.37	46.37	-22.20	-29.74
5	12.62891	0.64	27.01	21.94	27.65	22.58	60.00	50.00	-32.35	-27.42
6	16.90625	0.74	29.27	24.63	30.01	25.37	60.00	50.00	-29.99	-24.63

- REMARKS:** 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Correction factor = Insertion loss + Cable loss
6. Emission Level = Correction Factor + Reading Value.

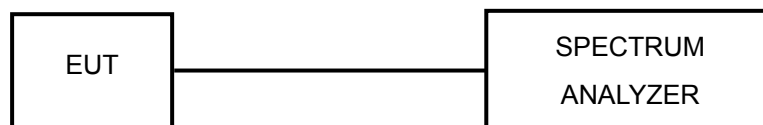


4.3 NUMBER OF HOPPING FREQUENCY USED

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

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 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.
- 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.
- Set the SA on View mode and then plot the result on SA screen.
- Repeat above procedures until all frequencies measured were complete.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

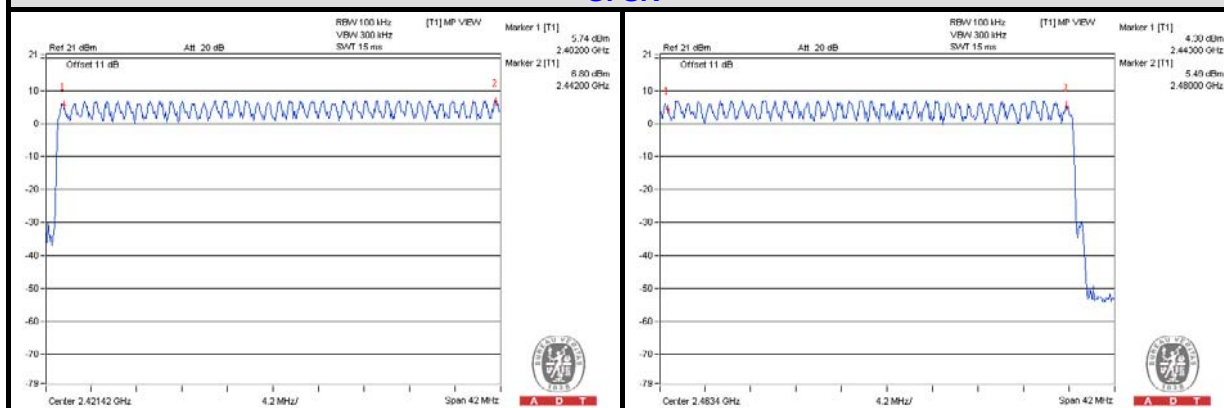
4.3.6 TEST RESULTS

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

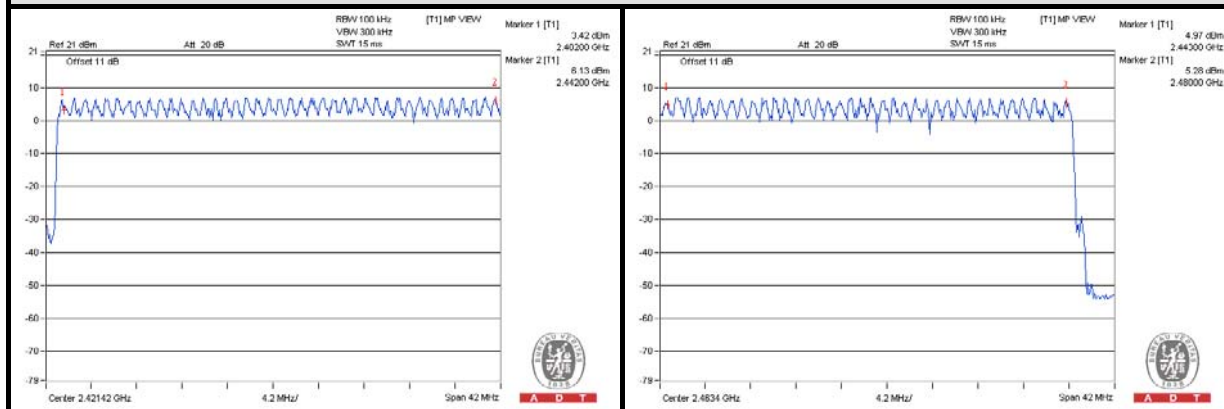


A D T

GFSK



8DPSK

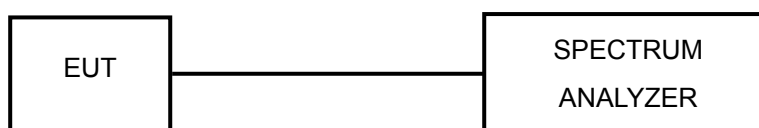


4.4 DWELL TIME ON EACH CHANNEL

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

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- 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.
- 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.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- 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

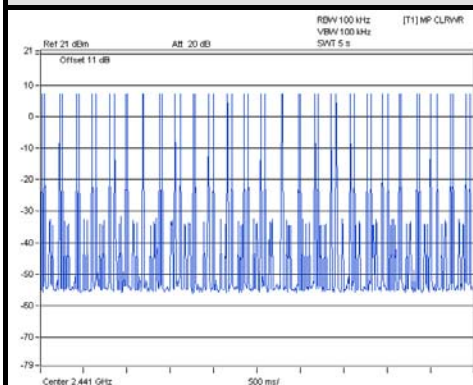
Mode	Number of transmission in a 31.6 (79Hopping*0.4)	Length of transmission time (msec)	Result (msec)	Limit (msec)
DH1	$50 \text{ (times / 5 sec)} * 6.32 = 316.00 \text{ times}$	0.438	138.4	400
DH3	$26 \text{ (times / 5 sec)} * 6.32 = 164.32 \text{ times}$	1.69	277.7	400
DH5	$17 \text{ (times / 5 sec)} * 6.32 = 107.44 \text{ times}$	2.95	316.9	400

NOTE: Test plots of the transmitting time slot are shown on next page.

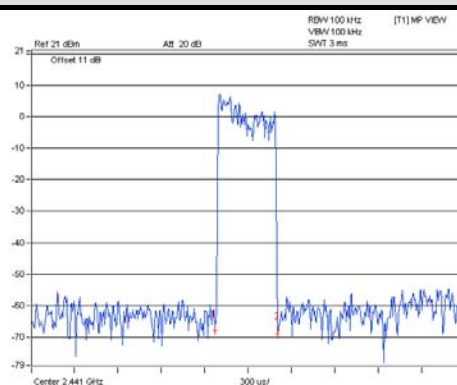


A D T

DH1

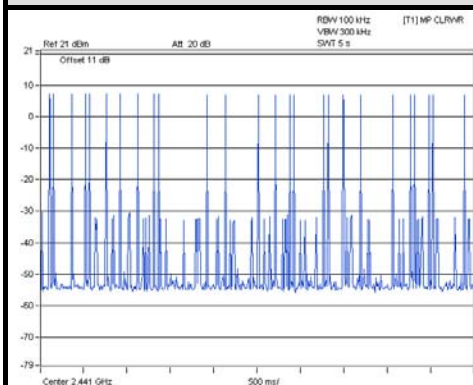


A D T

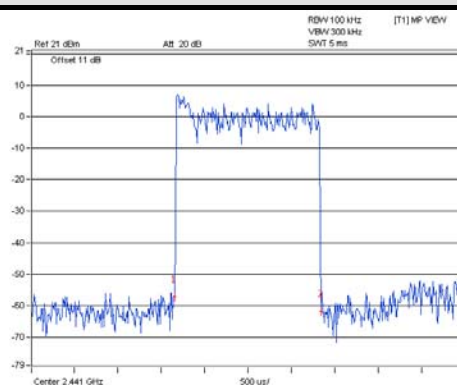


A D T

DH3

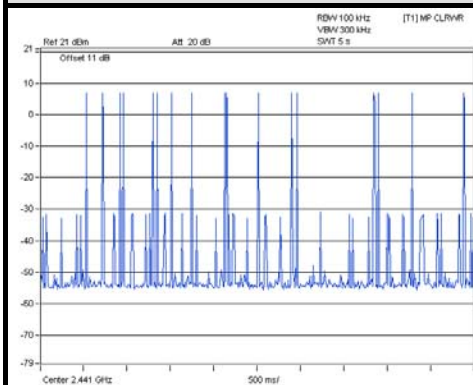


A D T

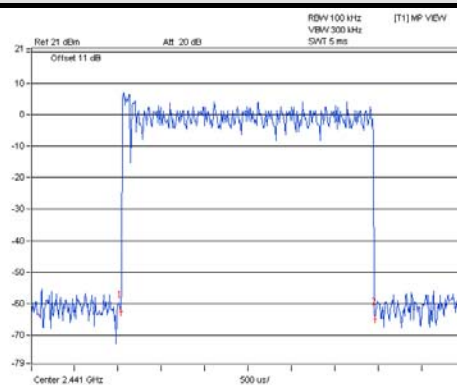


A D T

DH5



A D T



A D T



A D T

8DPSK

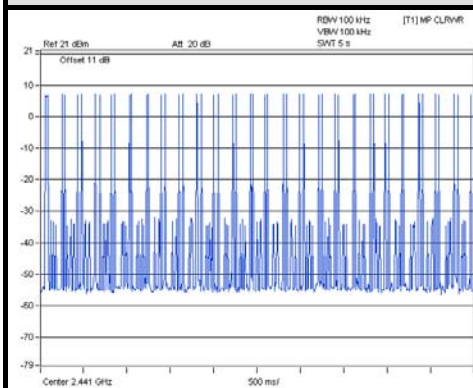
Mode	Number of transmission in a 31.6 (79Hopping*0.4)	Length of transmission time (msec)	Result (msec)	Limit (msec)
DH1	51 (times / 5 sec) * 6.32 = 322.32 times	0.444	143.1	400
DH3	25 (times / 5 sec) * 6.32 = 158.00 times	1.71	270.2	400
DH5	17 (times / 5 sec) * 6.32 = 107.44 times	3.02	324.5	400

NOTE: Test plots of the transmitting time slot are shown on next page.

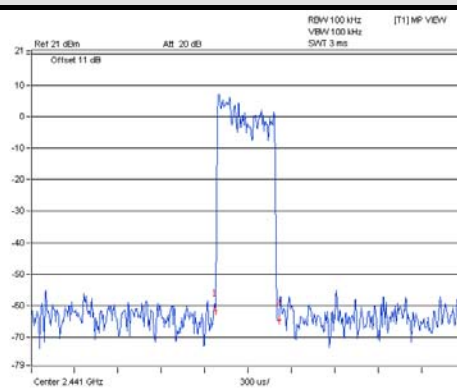


A D T

DH1



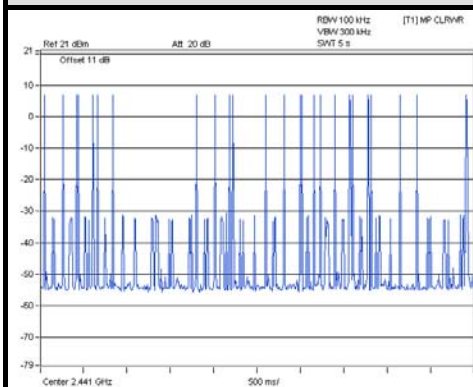
A D T



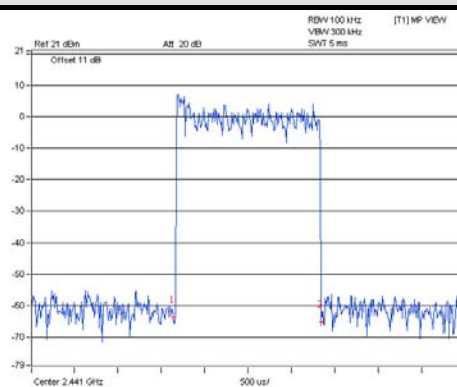
A D T

Marker 1 [T1] -61.73 dBm
1.272000 ms
Delta 2 [T1] 2.80 dB
444.000000 us

DH3



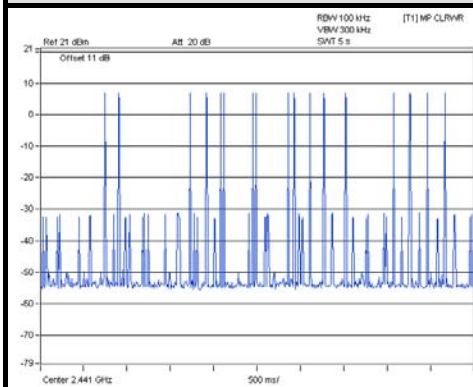
A D T



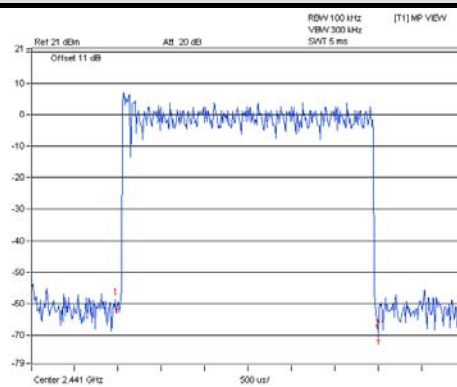
A D T

Marker 1 [T1] -63.64 dBm
1.630000 ms
Delta 2 [T1] 1.85 dB
1.710000 ms

DH5



A D T



A D T

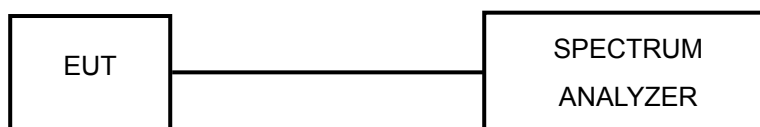
Marker 1 [T1] -61.00 dBm
980.000000 us
Delta 2 [T1] 9.86 dB
3.020000 ms

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

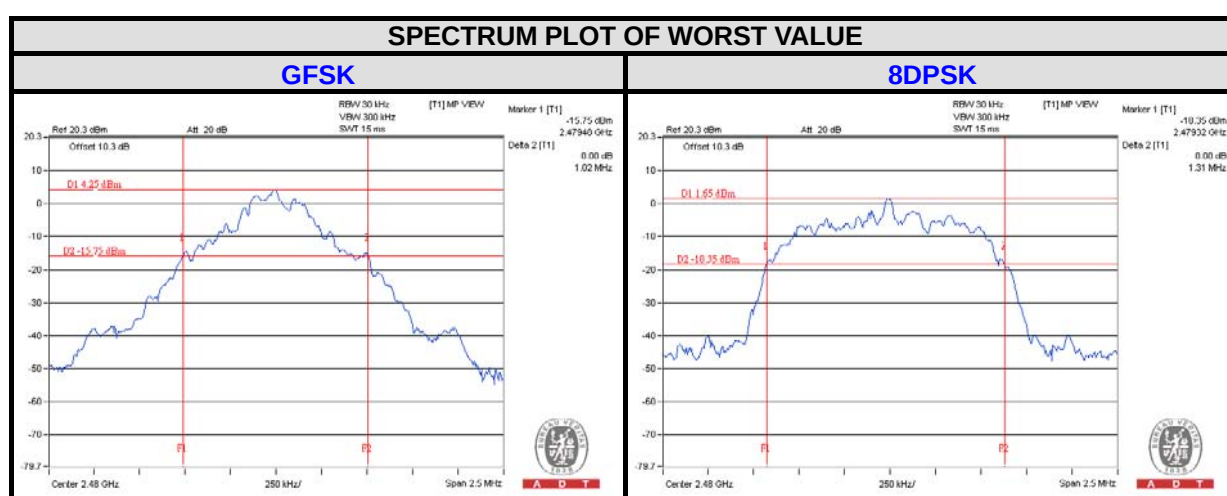
No deviation.

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	8DPSK
0	2402	1.02	1.31
39	2441	1.02	1.31
78	2480	1.02	1.31

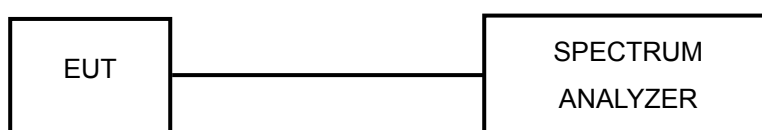


4.6 HOPPING CHANNEL SEPARATION

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

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

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

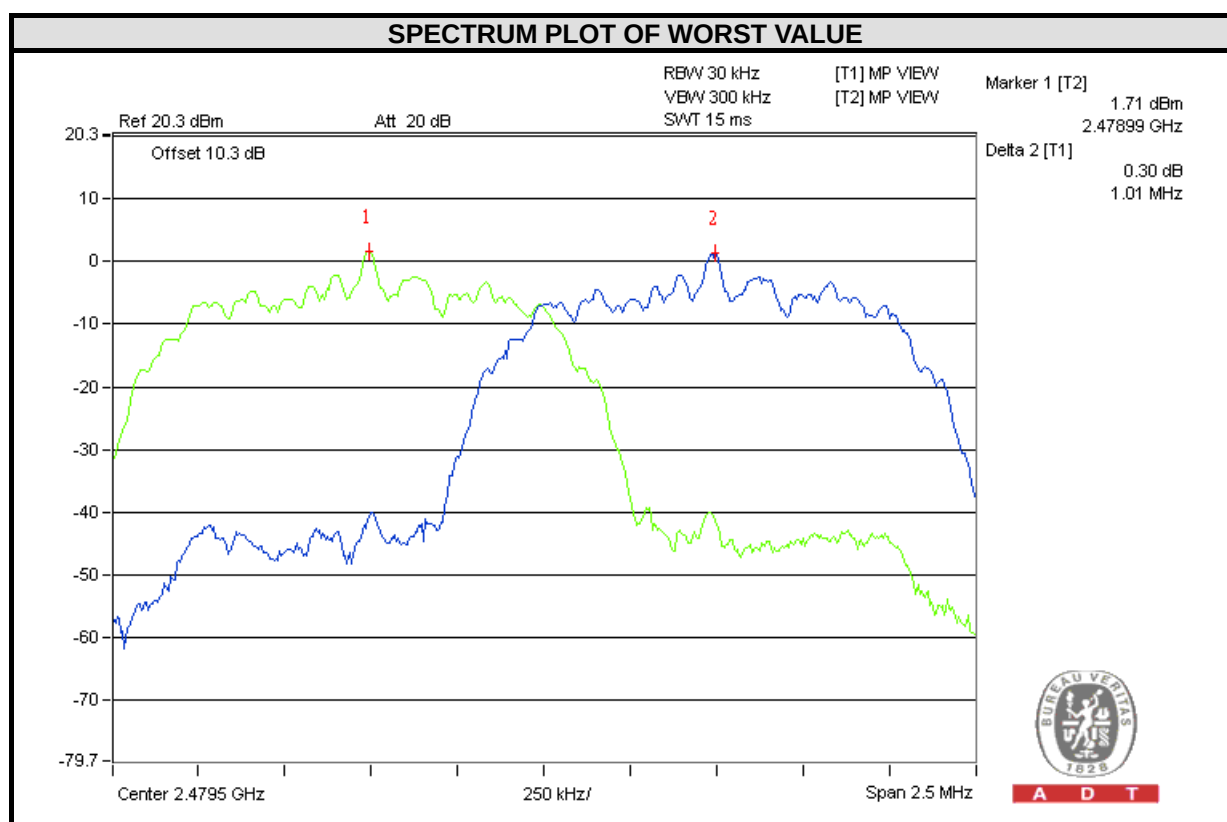


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4.6.6 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)		20dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)		PASS / FAIL
		GFSK	8DPSK	GFSK	8DPSK	GFSK	8DPSK	
0	2402	1.00	1.01	1.02	1.31	0.68	0.87	PASS
39	2441	1.01	1.00	1.02	1.31	0.68	0.87	PASS
78	2480	1.01	1.01	1.02	1.31	0.68	0.87	PASS

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

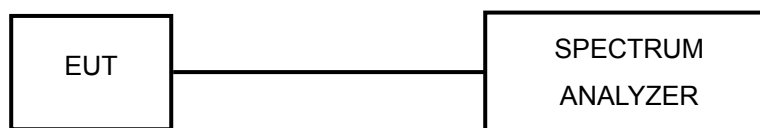


4.7 MAXIMUM OUTPUT POWER

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

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 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.
- The center frequency of the spectrum analyzer is set to the fundamental frequency and using 3MHz RBW and 10 MHz VBW.
- Measure the captured power within the band and recording the plot.
- Repeat above procedures until all frequencies required were complete.

4.7.5 DEVIATION FROM TEST STANDARD

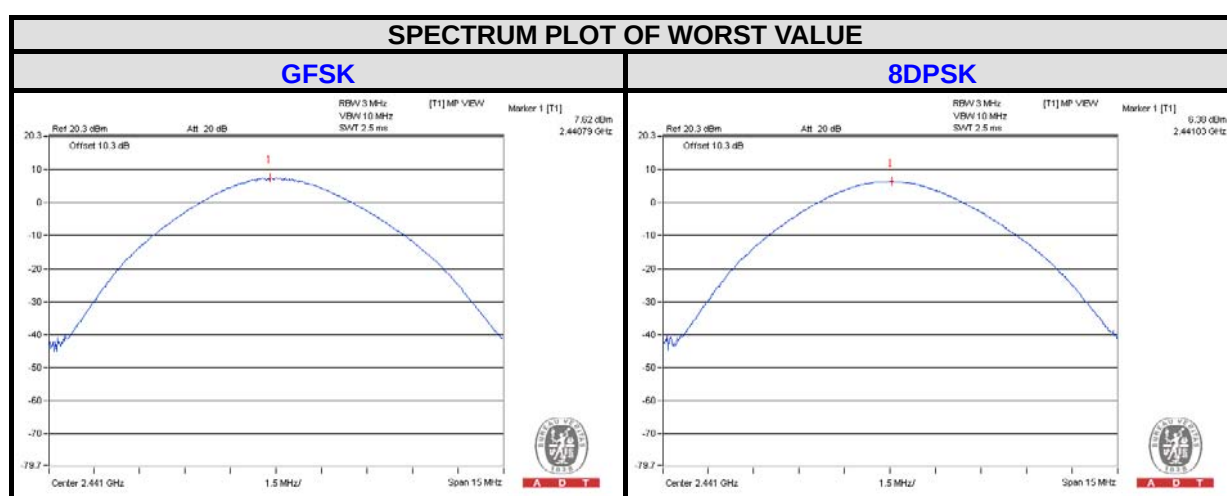
No deviation.

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	8DPSK	GFSK	8DPSK		
0	2402	4.842	4.083	6.85	6.11	125	PASS
39	2441	5.781	4.345	7.62	6.38	125	PASS
78	2480	5.140	3.656	7.11	5.63	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

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges were measured and recorded.

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 and receive data at lowest, middle and highest channel frequencies individually.

4.8.6 TEST RESULTS

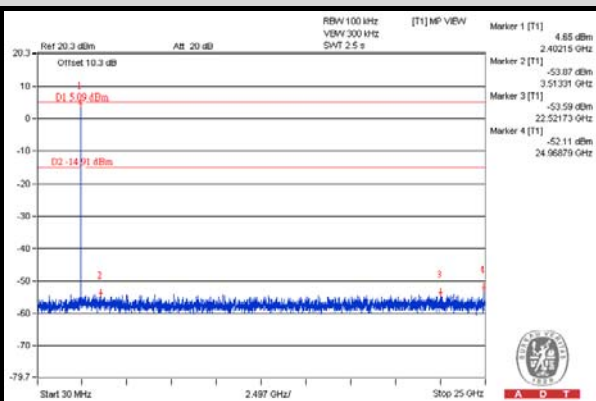
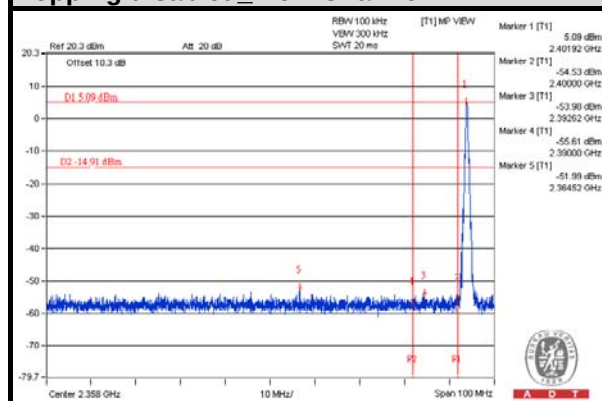
The spectrum plots are attached on the following images. D1 line indicates the highest level, D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.



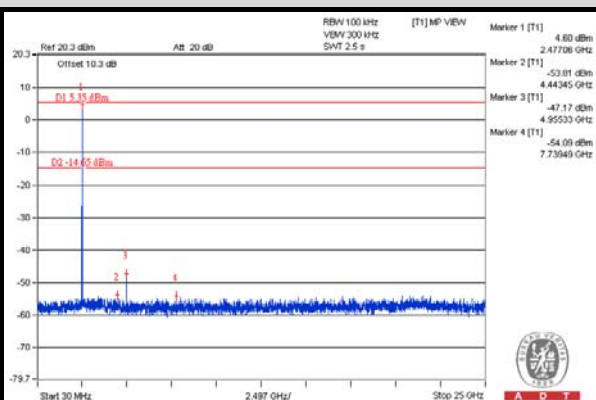
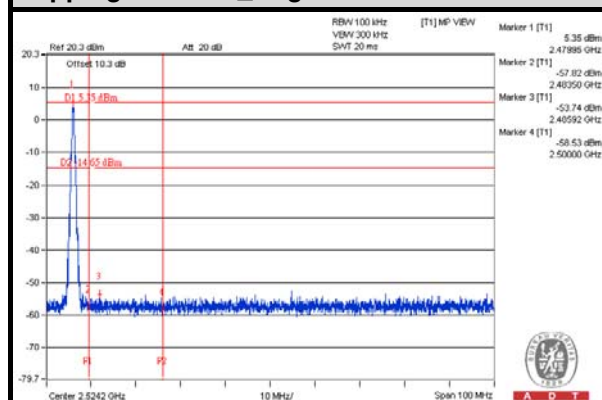
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GFSK

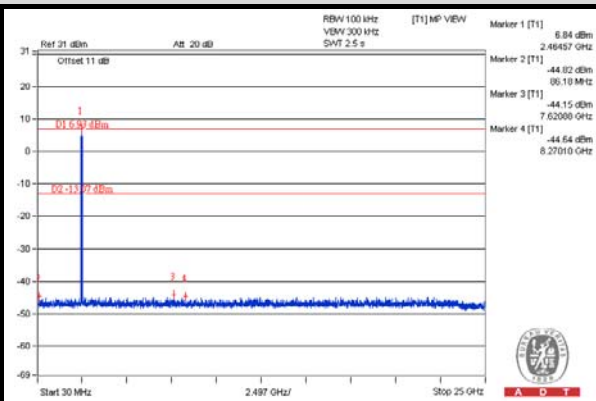
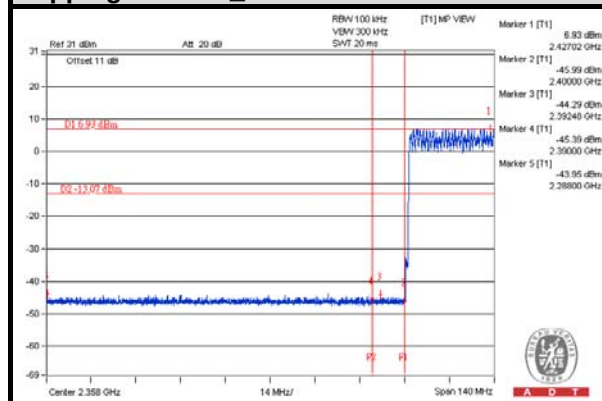
Hopping disabled_ Low Channel



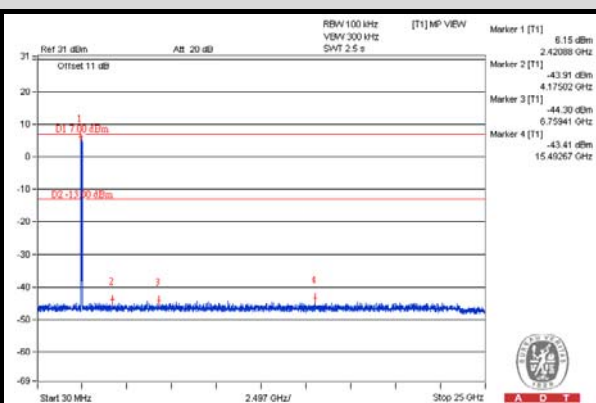
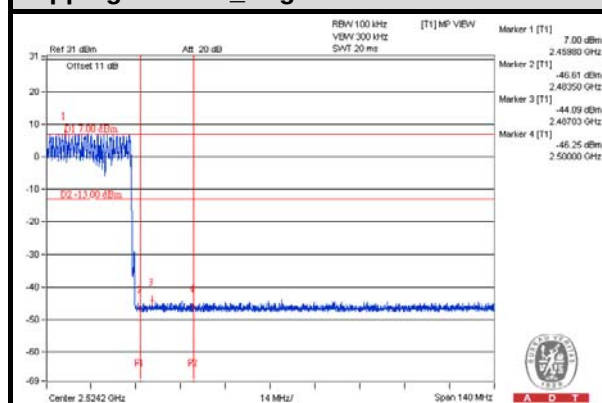
Hopping disabled_ High Channel



Hopping enabled_ Low Channel



Hopping enabled_ High Channel

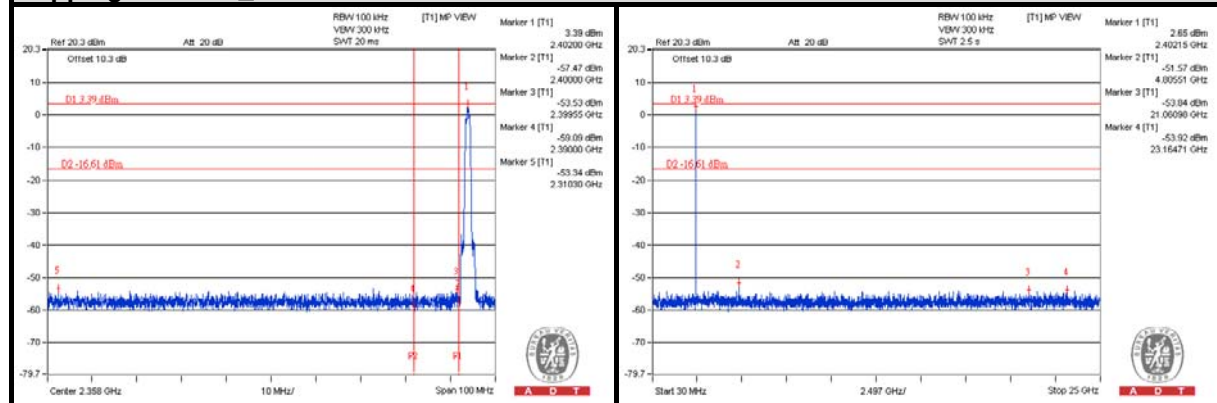




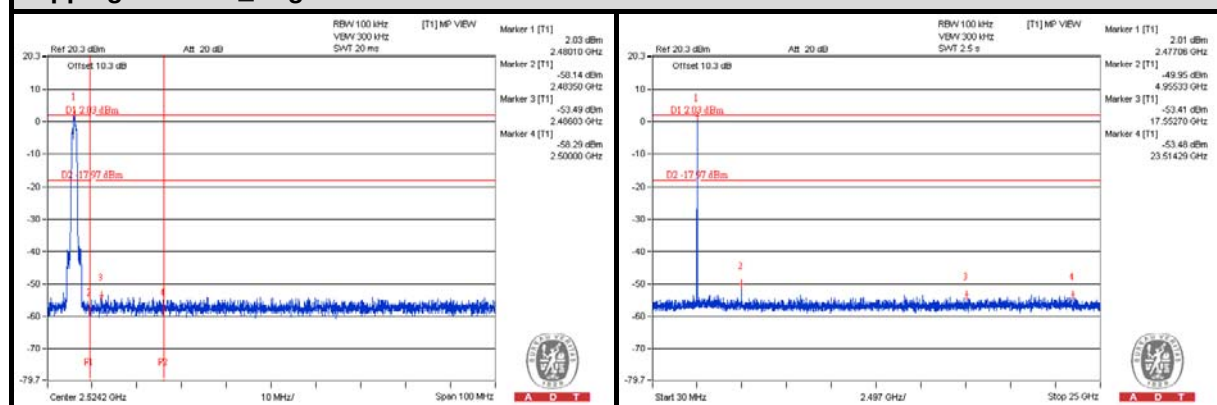
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8DPSK

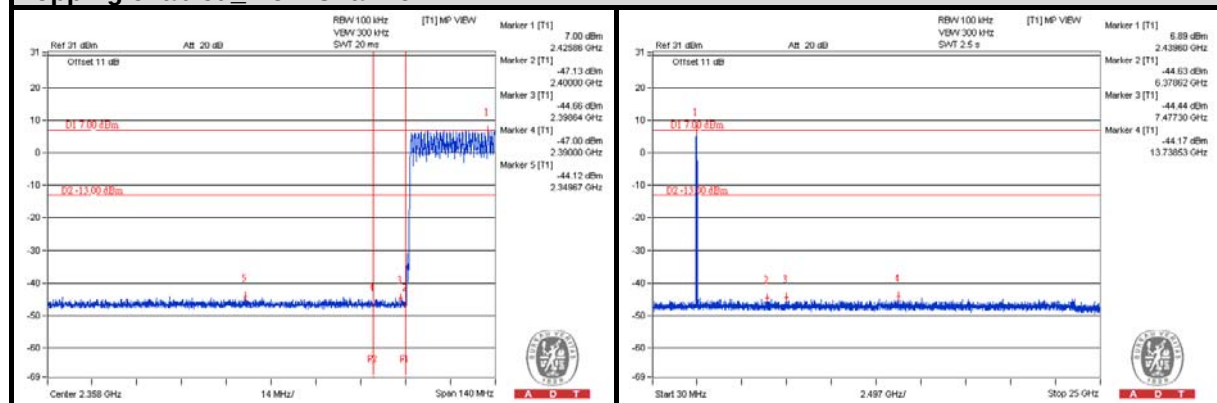
Hopping disabled_ Low Channel



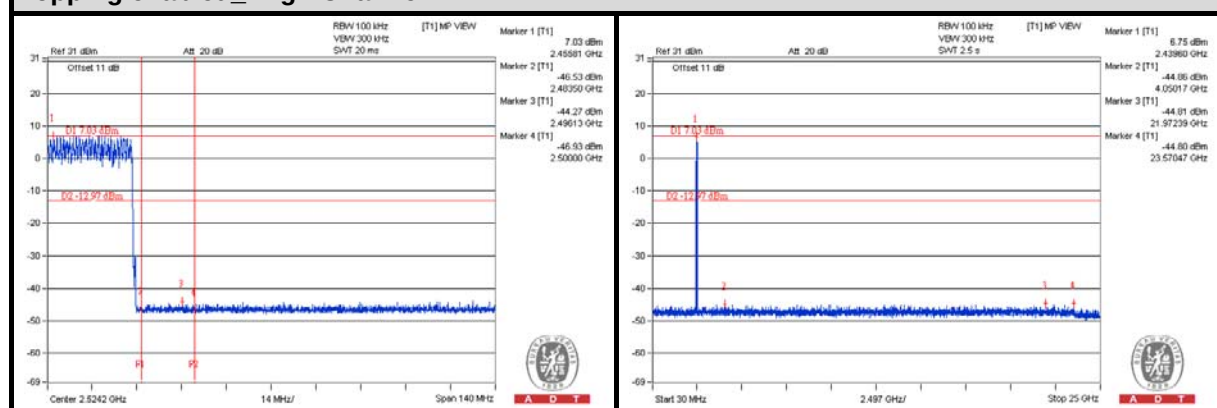
Hopping disabled_ High Channel



Hopping enabled_ Low Channel



Hopping enabled_ High 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:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

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Fax: 886-3-3270892

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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 any modifications are made to the EUT by the lab during the test.

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