



TEST REPORT

Applicant	BRAVEN LC
Address	6001 Oak Canyon Irvine CA 92618 US

Manufacturer or Supplier	Tendo International Co.,Ltd.
Address	Room 915,Unit 2, Global Trading Center, Dongcheng District, Dongguan, Guangdong, 523123, China
Product	Braven Flye Sport Glo Earbuds
Brand Name	BRAVEN
Model	BFSG
Additional Model & Model Difference	BFSGXX("x" can be replaced by letter A-Z); See items 3.1
Date of tests	Apr. 05, 2017 ~ May 11, 2017 Jul. 12, 2017 ~ Aug. 08, 2017

the tests have been carried out according to the requirements of the following standards:

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Tested by Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
Project Engineer / Ewic Department	Supervisor / Elvic Department

Date: Sep. 14, 2017

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TABLE OF CONTENTS

K	ELEASE C	CONTROL RECORD	4
1	SUMM	ARY OF TEST RESULTS	5
2	MEAS	UREMENT UNCERTAINTY	5
3	GENE	RAL INFORMATION	6
	3.1 GEN	NERAL DESCRIPTION OF EUT	6
	3.2 DES	SCRIPTION OF TEST MODES	7
	3.2.1.	CONFIGURATION OF SYSTEM UNDER TEST	8
	3.2.2.	TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	8
	3.3 GEN	IERAL DESCRIPTION OF APPLIED STANDARDS	10
	3.4 DES	CRIPTION OF SUPPORT UNITS	10
4	TEST	TYPES AND RESULTS	11
	4.1. R	ADIATED EMISSION AND BANDEDGE MEASUREMENT	11
	4.1.1.	LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT	11
	4.1.2.	TEST INSTRUMENTS	12
	4.1.3.	TEST PROCEDURES	13
	4.1.4.	DEVIATION FROM TEST STANDARD	13
	4.1.5.	TEST SETUP	14
	4.1.6.	EUT OPERATING CONDITIONS	15
	4.1.7.	TEST RESULTS	16
	4.2. N	UMBER OF HOPPING FREQUENCY USED	32
	4.2.1.	LIMIT OF HOPPING FREQUENCY USED	32
	4.2.2.	TEST SETUP	32
	4.2.3.	TEST INSTRUMENTS	32
	4.2.4.	TEST PROCEDURES	33
	4.2.5.	DEVIATION FROM TEST STANDARD	33
	4.2.6.	TEST RESULTS	33
	4.3. D	WELL TIME ON EACH CHANNEL	36
	4.3.1.	LIMIT OF DWELL TIME USED	36
	4.3.2.	TEST SETUP	36
	4.3.3.	TEST INSTRUMENTS	36
	4.3.4.	TEST PROCEDURES	36
	4.3.5.	DEVIATION FROM TEST STANDARD	36
	4.3.6.	TEST RESULTS	37
	4.4. C	HANNEL BANDWIDTH	40



	CHAN	GES TO THE EUT BY THE LAB	58
6.	APPEN	NDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING	
5.	РНОТО	OGRAPHS OF THE TEST CONFIGURATION	57
	4.7.6.	TEST RESULTS	52
	4.7.5.	EUT OPERATING CONDITION	52
	4.7.4.	DEVIATION FROM TEST STANDARD	52
	4.7.3.	TEST PROCEDURE	52
	4.7.2.	TEST INSTRUMENTS	52
	4.7.1.	LIMITS OF OUT OF BAND EMISSION MEASUREMENT	52
4.	7. O	OUT OF BAND EMISSION MEASUREMENT	52
	4.6.7.	TEST RESULTS	51
	4.6.6.	EUT OPERATING CONDITION	50
	4.6.5.	DEVIATION FROM TEST STANDARD	50
	4.6.4.	TEST PROCEDURES	50
	4.6.3.	TEST INSTRUMENTS	50
	4.6.2.	TEST SETUP	50
	4.6.1.	LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT	50
4.	6. M	IAXIMUM OUTPUT POWER	50
	4.5.6.	TEST RESULTS	46
	4.5.5.	DEVIATION FROM TEST STANDARD	45
	4.5.4.	TEST PROCEDURES	45
	4.5.3.	TEST INSTRUMENTS	45
	4.5.2.	TEST SETUP	45
	4.5.1.	LIMIT OF HOPPING CHANNEL SEPARATION	45
4.		OPPING CHANNEL SEPARATION	
		TEST RESULTS	
	4.4.6.	EUT OPERATING CONDITION	40
	4.4.5.	DEVIATION FROM TEST STANDARD	40
	4.4.4.	TEST PROCEDURE	40
	4.4.3.	TEST INSTRUMENTS	40
	4.4.2.	TEST SETUP	40
	4.4.1.	LIMITS OF CHANNEL BANDWIDTH	40



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF170401N153-1	Original release	May 11, 2017
RF170712N061-1	Based on the original report RF170401N153-1 added the antenna with 3M9471, and it need to retest RSE test item after engineer evaluated.	Sep. 14, 2017

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1 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	N/A	Power by battery					
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		Meet the requirement of limit.					
15.247(b)	Maximum Peak Output Power	PASS	Meet the requirement of limit.					
15.247(d)& 15.209	Transmitter Radiated Emission	PASS	Meet the requirement of limit.					
15.247(d)	Out of band Emission Measurement	PASS	Meet the requirement of limit.					
15.203	Antenna Requirement	PASS	No antenna connector is used.					

2 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
	9KHz ~ 30MHz	2.90dB
Radiated emissions	30MHz ~ 1GMHz	3.83dB
Nadiated emissions	1GHz ~ 18GHz	4.93dB
	18GHz ~ 40GHz	4.80dB

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

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3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Braven Flye Sport Glo Earbuds
MODEL NO.	BFSG
ADDITIONAL MODEL	BFSGXX("x" can be replaced by letter A-Z)
FCC ID	Z7RBEBB80S
POWER SUPPLY	DC 3.7V From Li-ion Battery
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, π/4 DQPSK, 8DPSK
OPERATING FREQUENCY	2402MHz~2480MHz
NUMBER OF CHANNEL	79
PEAK OUTPUT POWER	0.5598mW (Max. Measured)
ANTENNA TYPE	ANT(BI80): FPCB Antenna, -4.01dBi Gain ANT(3M9471): FPCB Antenna, -2.80dBi Gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. Please refer to the EUT photo document (Reference No.: 170712N061) for detailed product photo.
- 4. Additional models BFSGXX("x" can be replaced by letter A-Z) are identical with the test model BFSG except the model no. and the color about appearance for trading purpose.
- 5. For trading purpose, this product can match two different antennas, but a product can only install one.



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. CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photograph of the test configuration for reference.

3.2.2. TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports

The worst case was found when positioned on X axis for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION	
MODE	RE<1G	RE≥1G	PLC	APCM	DESCRIPTION	
Α	\checkmark	\checkmark	-	$\sqrt{}$	Powered by Fully Battery with Bluetooth link	

Where RE<1G: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

NOTE: No need to concern of Conducted Emission due to the EUT is powered by battery.

RADIATED EMISSION TEST (BELOW 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, 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	TESTED	MODULATION	MODULATION	PACKET
CHANNEL	CHANNEL	TECHNOLOGY	TYPE	TYPE
0 to 78	39	FHSS	GFSK	DH5

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, 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 TECHNOLOGY	MODULATION TYPE	PACKET TYPE
0 to 78	0, 39, 78	FHSS	GFSK	DH5
0 to 78	0, 39, 78	FHSS	8DPSK	3DH5



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 TECHNOLOGY	MODULATION TYPE	PACKET TYPE
0 to 78	0, 39, 78	FHSS	GFSK	DH5
0 to 78	0, 39, 78	FHSS	8DPSK	3DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	25deg. C, 55%RH	DC 3.7V from Fully Battery	Hardy Leng
RE≥1G	25deg. C, 55%RH	DC 3.7V from Fully Battery	Hardy Leng
PLC	N/A	N/A	N/A
APCM	20deg. C, 55%RH	DC 3.7V from Fully Battery	Robert Cheng

Page 9 of 58

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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. Section 15.247 ANSI C63.10-2013

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

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	N/A	N/A	N/A	N/A	N/A

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

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Page 10 of 58



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, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). 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. As shown in 15.35(b), 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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 11,17	Mar. 10,18
Signal and Spectrum Analyzer	Rohde&Schwar z	FSV40	101094	Apr. 05,17	Apr. 04,18
Bilog Antenna	Teseq	CBL 6111D	30643	Jul. 14, 17	Jul. 13, 18
Loop antenna (9kHz~30MHz)	Daze	ZN30900A	0708	Dec. 22,16	Dec. 21,17
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 18,17	May 17,18
Horn Antenna (15GHz-40GHz)	SCHWARZBEC K	BBHA 9170	BBHA9170147	Jan. 21,17	Jan. 20,18
GPS Generator+ Antenna	TOJOIN	GNSS-5000A	E1-010119	Aug. 08, 17	Aug. 07, 18
3m Semi-anechoic Chamber	ETS-LINDGRE N	9m*6m*6m	NSEMC003	Mar. 06,17	Mar. 05,18
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A
Horn Antenna	SCHWARZBEC K	BBHA 9170	BBHA9170242	Mar. 15,17	Mar. 14,18
Amplifier (9kHz-1GHz)	SONOMA	310D	186955	Mar. 04,17	Mar. 03, 18
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBEC K	BBV9718	305	Mar. 06,17	Mar. 05,18
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 04,16	Nov. 03,17
Test Software	ADT	ADT_Radiated _V7.6.15.9.2	N/A	N/A	N/A

NOTE:

- 1. The test was performed in 966 Chamber.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 749762.



4.1.3. TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters 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. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

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. Bluetooth duty factor correction is not correct as it is based on 79 channels, worst casde would be with AFH enabled and device using the minimum of 20 channels. In this case the dwell time for a DH5 packet is 0.725 * 5 per 75ms, (assuming one DH5 packet transmitted and then a DH1 packet received, 20 channels to cycle through would take 75ms on average before repeating a channel) so in any 100ms there would be, on average, two DH5 packets = 7.25ms per 100ms Therefore, the duty cycle correlation factor be equal to: 20log(7.25 / 100)= -22.5 dB. Average value = peak reading + 20log(duty cycle).
- 4. All modes of operation were investigated and the worst-case emissions are reported.

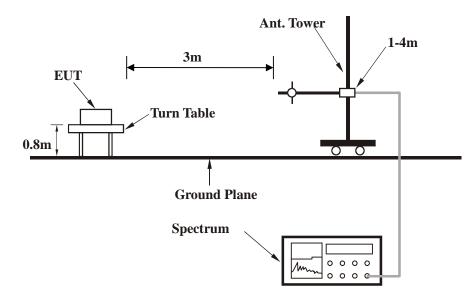
4.1.4. DEVIATION FROM TEST STANDARD

No deviation.



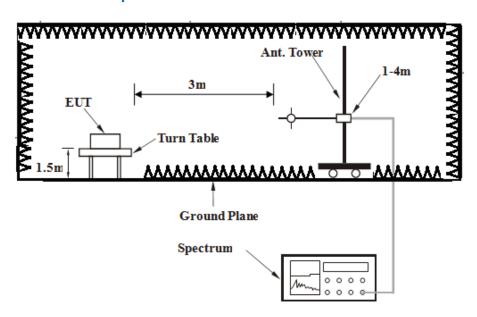
4.1.5. TEST SETUP

Below 1GHz test setup



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

Above 1GHz test setup



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

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Page 14 of 58

Report Version 1



4.1.6. EUT OPERATING CONDITIONS

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.

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Page 15 of 58 Report Version 1



4.1.7. TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

GFSK DH5

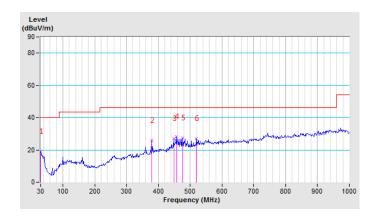
The antenna(BI80)

CHANNEL	Channel 39	DETECTOR FUNCTION	Ougai Pagk (OD)
FREQUENCY RANGE	9KHz ~ 1GHz		Quasi-Peak (QP)

	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	18.88 QP	40.00	-21.12	1.00 H	269	30.15	-11.27	
2	379.76	25.79 QP	46.00	-20.21	1.00 H	332	36.21	-10.42	
3	448.16	27.17 QP	46.00	-18.83	1.00 H	170	35.16	-7.99	
4	455.93	28.23 QP	46.00	-17.77	1.00 H	190	35.77	-7.54	
5	476.14	27.55 QP	46.00	-18.45	1.00 H	230	34.29	-6.74	
6	519.66	27.10 QP	46.00	-18.90	1.00 H	200	32.95	-5.85	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



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Page 16 of 58

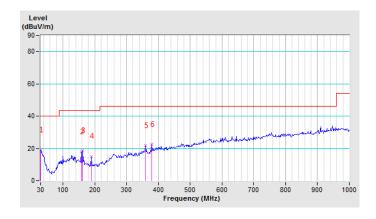


CHANNEL	Channel 39	DETECTOR FUNCTION	Quasi Peak (QD)
FREQUENCY RANGE	9KHz ~ 1GHz		Quasi-Peak (QP)

	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	18.94 QP	40.00	-21.06	1.00 V	90	30.21	-11.27	
2	157.47	17.91 QP	43.50	-25.59	1.00 V	270	34.91	-17.00	
3	162.13	18.57 QP	43.50	-24.93	1.00 V	165	36.01	-17.44	
4	188.56	15.03 QP	43.50	-28.47	1.00 V	288	34.69	-19.66	
5	359.55	21.57 QP	46.00	-24.43	1.00 V	21	31.83	-10.26	
6	379.76	22.64 QP	46.00	-23.36	1.00 V	150	33.06	-10.42	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.





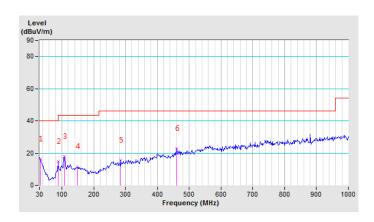
The antenna(3M9471)

CHANNEL	Channel 39	DETECTOR	Overi Park (OP)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	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	31.55	16.31 QP	40.00	-23.69	1.50 H	330	28.34	-12.03	
2	87.52	15.00 QP	40.00	-25.00	1.50 H	218	35.07	-20.07	
3	107.72	17.77 QP	43.50	-25.73	1.50 H	170	35.92	-18.15	
4	148.14	11.62 QP	43.50	-31.88	1.50 H	155	28.26	-16.64	
5	284.94	15.63 QP	46.00	-30.37	1.50 H	240	29.57	-13.94	
6	460.59	22.76 QP	46.00	-23.24	1.50 H	88	30.09	-7.33	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



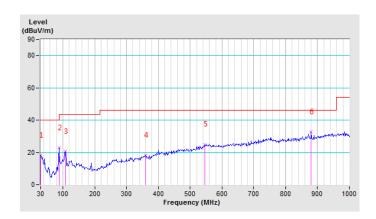


CHANNEL	Channel 39	DETECTOR	Quasi Peak (QD)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	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	18.25 QP	40.00	-21.75	1.50 V	333	29.52	-11.27	
2	87.52	22.96 QP	40.00	-17.04	1.50 V	344	43.03	-20.07	
3	107.72	20.63 QP	43.50	-22.87	1.50 V	312	38.78	-18.15	
4	359.55	18.41 QP	46.00	-27.59	1.50 V	286	28.77	-10.36	
5	546.09	24.96 QP	46.00	-21.04	1.50 V	298	29.39	-4.43	
6	880.30	32.62 QP	46.00	-13.38	1.50 V	270	31.76	0.86	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.



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Page 19 of 58



ABOVE 1GHz WORST-CASE DATA:

GFSK DH5

The antenna(BI80)

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	POLARITY &	& TEST DIS	TANCE: HO	RIZONTAL	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	46.53 PK	74.00	-27.47	1.00 H	215	43.48	3.05
2	2390.00	24.03 AV	54.00	-29.97	1.00 H	215	20.98	3.05
3	*2402.00	101.70 PK			1.00 H	215	98.63	3.07
4	*2402.00	79.20 AV			1.00 H	215	76.13	3.07
5	4804.00	65.03 PK	74.00	-8.97	1.00 H	21	59.94	5.09
6	4804.00	42.53 AV	54.00	-11.47	1.00 H	21	37.44	5.09
7	#7206.00	62.98 PK	74.00	-11.02	1.00 H	215	51.08	11.90
8	#7206.00	40.48 AV	54.00	-13.52	1.00 H	215	28.58	11.90
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	46.65 PK	74.00	-27.35	1.00 V	120	43.60	3.05
2	2390.00	24.15 AV	54.00	-29.85	1.00 V	120	21.10	3.05
3	*2402.00	96.33 PK			1.00 V	120	93.26	3.07
4	*2402.00	73.83 AV			1.00 V	120	70.76	3.07
5	4804.00	62.40 PK	74.00	-11.60	1.00 V	21	57.31	5.09
6	4804.00	39.90 AV	54.00	-14.10	1.00 V	21	34.81	5.09
7	#7206.00	61.26 PK	74.00	-12.74	2.10 V	54	49.36	11.90
8	#7206.00	38.76 AV	54.00	-15.24	2.10 V	54	26.86	11.90

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	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	102.46 PK			1.20 H	25	99.29	3.17	
2	*2441.00	79.96 AV			1.20 H	25	76.79	3.17	
3	4882.00	65.06 PK	74.00	-8.94	1.00 H	214	59.83	5.23	
4	4882.00	42.56 AV	54.00	-11.44	1.00 H	214	37.33	5.23	
5	7323.00	61.98 PK	74.00	-12.02	1.00 H	211	49.62	12.36	
6	7323.00	39.48 AV	54.00	-14.52	1.00 H	211	27.12	12.36	
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	96.46 PK			2.10 V	360	93.29	3.17	
2	*2441.00	73.96 AV			2.10 V	360	70.79	3.17	
3	4882.00	65.96 PK	74.00	-8.04	2.10 V	58	60.73	5.23	
4	4882.00	43.46 AV	54.00	-10.54	2.10 V	58	38.23	5.23	
5	7323.00	62.10 PK	74.00	-11.90	1.00 V	214	49.74	12.36	
6	7323.00	39.60 AV	54.00	-14.40	1.00 V	214	27.24	12.36	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 78	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	POLARITY 6	& TEST DIS	TANCE: HO	RIZONTAL	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	101.46 PK			1.00 H	15	98.19	3.27
2	*2480.00	78.96 AV			1.00 H	15	75.69	3.27
3	2483.50	60.77 PK	74.00	-13.23	1.00 H	15	57.50	3.27
4	2483.50	38.27 AV	54.00	-15.73	1.00 H	15	35.00	3.27
5	4960.00	66.32 PK	74.00	-7.68	2.10 H	88	60.93	5.39
6	4960.00	43.82 AV	54.00	-10.18	2.10 H	88	38.43	5.39
7	7440.00	60.24 PK	74.00	-13.76	2.10 H	88	47.42	12.82
8	7440.00	37.74 AV	54.00	-16.26	2.10 H	88	24.92	12.82
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 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	98.23 PK			1.00 V	256	94.96	3.27
2	*2480.00	75.73 AV			1.00 V	256	72.46	3.27
3	2483.50	57.85 PK	74.00	-16.15	1.00 V	21	54.58	3.27
4	2483.50	35.35 AV	54.00	-18.65	1.00 V	21	32.08	3.27
5	4960.00	65.43 PK	74.00	-8.57	4.00 V	15	60.04	5.39
6	4960.00	42.93 AV	54.00	-11.07	4.00 V	15	37.54	5.39
7	7440.00	61.96 PK	74.00	-12.04	1.02 V	255	49.14	12.82
8	7440.00	39.46 AV	54.00	-14.54	1.02 V	255	26.64	12.82

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



8DPSK 3DH5

The antenna(BI80)

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA	POLARITY &	& TEST DIS	TANCE: HO	RIZONTAL	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	46.63 PK	74.00	-27.37	1.00 H	175	43.58	3.05
2	2390.00	24.13 AV	54.00	-29.87	1.00 H	175	21.08	3.05
3	*2402.00	99.54 PK			1.00 H	275	96.47	3.07
4	*2402.00	77.04 AV			1.00 H	275	73.97	3.07
5	4804.00	62.55 PK	74.00	-11.45	1.50 H	215	57.46	5.09
6	4804.00	40.05 AV	54.00	-13.95	1.50 H	215	34.96	5.09
7	#7206.00	60.33 PK	74.00	-13.67	2.10 H	66	48.43	11.90
8	#7206.00	37.83 AV	54.00	-16.17	2.10 H	66	25.93	11.90
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 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	47.19 PK	74.00	-26.81	1.02 V	360	44.14	3.05
2	2390.00	24.69 AV	54.00	-29.31	1.02 V	360	21.64	3.05
3	*2402.00	94.25 PK			1.02 V	360	91.18	3.07
4	*2402.00	71.75 AV			1.02 V	360	68.68	3.07
5	4804.00	64.56 PK	74.00	-9.44	2.54 V	300	59.47	5.09
6	4804.00	42.06 AV	54.00	-11.94	2.54 V	300	36.97	5.09
7	#7206.00	59.64 PK	74.00	-14.36	1.50 V	33	47.74	11.90
8	#7206.00	37.14 AV	54.00	-16.86	1.50 V	33	25.24	11.90

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	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	100.03 PK			3.22 H	88	96.86	3.17	
2	*2441.00	77.53 AV			3.22 H	88	74.36	3.17	
3	4882.00	66.84 PK	74.00	-7.16	2.10 H	55	61.61	5.23	
4	4882.00	44.34 AV	54.00	-9.66	2.10 H	55	39.11	5.23	
5	7323.00	58.94 PK	74.00	-15.06	2.55 H	84	46.58	12.36	
6	7323.00	36.44 AV	54.00	-17.56	2.55 H	84	24.08	12.36	
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 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	95.53 PK			2.10 V	200	92.36	3.17	
2	*2441.00	73.03 AV			2.10 V	200	69.86	3.17	
3	4882.00	61.46 PK	74.00	-12.54	2.55 V	45	56.23	5.23	
4	4882.00	38.96 AV	54.00	-15.04	2.55 V	45	33.73	5.23	
5	7323.00	59.33 PK	74.00	-14.67	1.00 V	245	46.97	12.36	
6	7323.00	36.83 AV	54.00	-17.17	1.00 V	245	24.47	12.36	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 78	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

				. ========			.=		
	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	99.08 PK			1.00 H	145	95.81	3.27	
2	*2480.00	76.85 AV			1.00 H	145	73.58	3.27	
3	2483.50	58.60 PK	74.00	-15.40	1.00 H	215	55.33	3.27	
4	2483.50	36.10 AV	54.00	-17.90	1.00 H	215	32.83	3.27	
5	4960.00	66.81 PK	74.00	-7.19	1.00 H	215	61.42	5.39	
6	4960.00	44.31 AV	54.00	-9.69	1.00 H	215	38.92	5.39	
7	7440.00	58.94 PK	74.00	-15.06	2.10 H	360	46.12	12.82	
8	7440.00	36.44 AV	54.00	-17.56	2.10 H	360	23.62	12.82	
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 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	97.25 PK			1.00 V	215	93.98	3.27	
2	*2480.00	74.75 AV			1.00 V	215	71.48	3.27	
3	2483.50	55.56 PK	74.00	-18.44	1.00 V	215	52.29	3.27	
4	2483.50	33.06 AV	54.00	-20.94	1.00 V	215	29.79	3.27	
5	4960.00	65.56 PK	74.00	-8.44	1.00 V	215	60.17	5.39	
6	4960.00	43.06 AV	54.00	-10.94	1.00 V	215	37.67	5.39	
7	7440.00	59.38 PK	74.00	-14.62	2.10 V	58	46.56	12.82	
8	7440.00	36.88 AV	54.00	-17.12	2.10 V	58	24.06	12.82	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



GFSK DH5

The antenna(3M9471)

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

							.=	
		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	1
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	54.82 PK	74.00	-19.18	1.50 H	328	51.76	3.06
2	2390.00	32.32 AV	54.00	-21.68	1.50 H	328	29.26	3.06
3	*2402.00	100.16 PK			1.50 H	328	97.07	3.09
4	*2402.00	77.66 AV			1.50 H	328	74.57	3.09
5	4804.00	63.34 PK	74.00	-10.66	1.50 H	177	57.41	5.93
6	4804.00	40.84 AV	54.00	-13.16	1.50 H	177	34.91	5.93
7	#7206.00	60.64 PK	74.00	-13.36	1.50 H	188	48.46	12.18
8	#7206.00	38.14 AV	54.00	-15.86	1.50 H	188	25.96	12.18
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 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	58.12 PK	74.00	-15.88	1.50 V	243	55.06	3.06
2	2390.00	35.62 AV	54.00	-18.38	1.50 V	243	32.56	3.06
3	*2402.00	97.12 PK			1.50 V	243	94.03	3.09
4	*2402.00	74.62 AV			1.50 V	243	71.53	3.09
5	4804.00	60.44 PK	74.00	-13.56	1.50 V	251	54.51	5.93
6	4804.00	37.97 AV	54.00	-16.03	1.50 V	251	32.04	5.93
7	#7206.00	61.18 PK	74.00	-12.82	1.13 V	180	49.00	12.18
8	#7206.00	38.68 AV	54.00	-15.32	1.13 V	180	26.50	12.18

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	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	97.13 PK			1.50 H	104	93.91	3.22	
2	*2441.00	74.63 AV			1.50 H	104	71.41	3.22	
3	4882.00	62.48 PK	74.00	-11.52	1.50 H	331	56.42	6.06	
4	4882.00	39.98 AV	54.00	-14.02	1.50 H	331	33.92	6.06	
5	7323.00	61.38 PK	74.00	-12.62	1.50 H	272	48.69	12.69	
6	7323.00	38.88 AV	54.00	-15.12	1.50 H	272	26.19	12.69	
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 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	93.38 PK			1.50 V	277	90.16	3.22	
2	*2441.00	70.88 AV			1.50 V	277	67.66	3.22	
3	4882.00	62.13 PK	74.00	-11.87	1.50 V	170	56.07	6.06	
	100000			44.07	4.50.1/	170	33.57	6.06	
4	4882.00	39.63 AV	54.00	-14.37	1.50 V	170	33.3 <i>1</i>	6.06	
5	7323.00	39.63 AV 61.56 PK	74.00	-14.37 -12.44	1.50 V 1.50 V	177	48.87	12.69	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 78	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	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	79.86 PK			1.50 H	177	76.51	3.35	
2	*2480.00	57.36 AV			1.50 H	177	54.01	3.35	
3	2483.50	53.60 PK	74.00	-20.40	1.50 H	177	50.24	3.36	
4	2483.50	31.10 AV	54.00	-22.90	1.50 H	177	27.74	3.36	
5	4960.00	62.87 PK	74.00	-11.13	1.50 H	218	56.67	6.20	
6	4960.00	40.37 AV	54.00	-13.63	1.50 H	218	34.17	6.20	
7	7440.00	64.23 PK	74.00	-9.77	1.50 H	200	51.03	13.20	
8	7440.00	41.73 AV	54.00	-12.27	1.50 H	200	28.53	13.20	
		ANTENNA	POLARITY	& TEST DI	STANCE: V	ERTICAL A	T 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	80.54 PK			1.50 V	157	77.19	3.35	
2	*2480.00	58.04 AV			1.50 V	157	54.69	3.35	
3	2483.50	55.52 PK	74.00	-18.48	1.50 V	157	52.16	3.36	
4	2483.50	33.02 AV	54.00	-20.98	1.50 V	157	29.66	3.36	
5	4960.00	63.84 PK	74.00	-10.16	1.50 V	188	57.64	6.20	
6	4960.00	41.34 AV	54.00	-12.66	1.50 V	188	35.14	6.20	
7	7440.00	65.88 PK	74.00	-8.12	1.50 V	177	52.68	13.20	
8	7440.00	43.38 AV	54.00	-10.62	1.50 V	177	30.18	13.20	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



8DPSK 3DH5

The antenna(3M9471)

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA I	POLARITY 8	& TEST DIS	TANCE: HO	RIZONTAL	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	56.11 PK	74.00	-17.89	1.50 H	287	53.05	3.06
2	2390.00	33.61 AV	54.00	-20.39	1.50 H	287	30.55	3.06
3	*2402.00	72.33 PK			1.50 H	287	69.24	3.09
4	*2402.00	49.83 AV			1.50 H	287	46.74	3.09
5	4804.00	63.42 PK	74.00	-10.58	2.00 H	177	57.49	5.93
6	4804.00	40.92 AV	54.00	-13.08	2.00 H	177	34.99	5.93
7	#7206.00	62.89 PK	74.00	-11.11	1.50 H	211	50.71	12.18
8	#7206.00	40.39 AV	54.00	-13.61	1.50 H	211	28.21	12.18
		ANTENNA	POLARITY	4 & TEST DI	STANCE: V	ERTICAL A	T 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	50.39 PK	74.00	-23.61	1.50 V	168	47.33	3.06
2	2390.00	27.89 AV	54.00	-26.11	1.50 V	168	24.83	3.06
3	*2402.00	69.68 PK			1.50 V	168	66.59	3.09
4	*2402.00	47.18 AV			1.50 V	168	44.09	3.09
5	4804.00	60.17 PK	74.00	-13.83	1.50 V	182	54.24	5.93
6	4804.00	37.67 AV	54.00	-16.33	1.50 V	182	31.74	5.93
7	#7206.00	64.17 PK	74.00	-9.83	1.50 V	110	51.99	12.18
8	#7206.00	41.67 AV	54.00	-12.33	1.50 V	110	29.49	12.18

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

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	70.88 PK			1.50 H	146	67.66	3.22	
2	*2441.00	48.38 AV			1.50 H	146	45.16	3.22	
3	4882.00	60.28 PK	74.00	-13.72	1.50 H	210	54.22	6.06	
4	4882.00	37.78 AV	54.00	-16.22	1.50 H	210	31.72	6.06	
5	7323.00	64.11 PK	74.00	-9.89	1.50 H	148	51.42	12.69	
6	7323.00	41.61 AV	54.00	-12.39	1.50 H	148	28.92	12.69	
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	73.65 PK			1.50 V	160	70.43	3.22	
2	*2441.00	51.15 AV			1.50 V	160	47.93	3.22	
3	4882.00	61.79 PK	74.00	-12.21	1.50 V	200	55.73	6.06	
4	4882.00	39.29 AV	54.00	-14.71	1.50 V	200	33.23	6.06	
	7323.00	62.47 PK	74.00	-11.53	1.50 V	240	49.78	12.69	
5	1323.00	02.41 FK	74.00	-11.55	1.50 V	240	75.70	12.00	

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 78	DETECTOR	Peak (PK)	
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)	

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	72.15 PK			1.50 H	68	68.80	3.35		
2	*2480.00	49.65 AV			1.50 H	68	46.30	3.35		
3	2483.50	55.27 PK	74.00	-18.73	1.50 H	68	51.91	3.36		
4	2483.50	32.77 AV	54.00	-21.23	1.50 H	68	29.41	3.36		
5	4960.00	62.25 PK	74.00	-11.75	1.50 H	101	56.05	6.20		
6	4960.00	39.75 AV	54.00	-14.25	1.50 H	101	33.55	6.20		
7	7440.00	64.19 PK	74.00	-9.81	1.50 H	166	50.99	13.20		
8	7440.00	41.69 AV	54.00	-12.31	1.50 H	166	28.49	13.20		
_	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	*2480.00	71.29 PK			1.50 V	10	67.94	3.35		
2	*2480.00	48.79 AV			1.50 V	10	45.44	3.35		
3	2483.50	50.57 PK	74.00	-23.43	1.50 V	10	47.21	3.36		
4	2483.50	28.07 AV	54.00	-25.93	1.50 V	10	24.71	3.36		
5	4960.00	62.87 PK	74.00	-11.13	1.50 V	200	56.67	6.20		
6	4960.00	40.37 AV	54.00	-13.63	1.50 V	200	34.17	6.20		
7	7440.00	63.11 PK	74.00	-10.89	1.50 V	177	49.91	13.20		
8	7440.00	40.61 AV	54.00	-13.39	1.50 V	177	27.41	13.20		

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).
- 3. The emission levels of other frequencies were less than 20dB margin against the limit.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

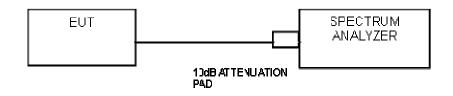


4.2. NUMBER OF HOPPING FREQUENCY USED

4.2.1. LIMIT OF HOPPING FREQUENCY USED

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

4.2.2. TEST SETUP



4.2.3. TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 04,17	May 03,18
Power Sensor	Keysight	U2021XA	MY55060018	May 04,17	May 03,18
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 13, 16	Oct.12, 17
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,16	Sep. 04,17
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 04,16	Nov. 03,17
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,16	Nov. 03,17
Signal Generator	Agilent	N5183A	MY50140980	Nov. 04,16	Nov. 03,17
Agile Signal Generator	Agilent	8645A	Agilent	Aug.08, 17	Aug.07, 18
pectrum Analyzer	Keysight	N9020A	MY55400499	Apr. 05,17	Apr. 04,18
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Dec.05, 16	Dec. 04, 17
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Aug.08, 17	Aug.07, 18
Attenuator	MINI	BW-S10W2 +	S130129FGE2	N/A	N/A

NOTE:

- 1. The test was performed in RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



4.2.4. 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 completed.

4.2.5. DEVIATION FROM TEST STANDARD

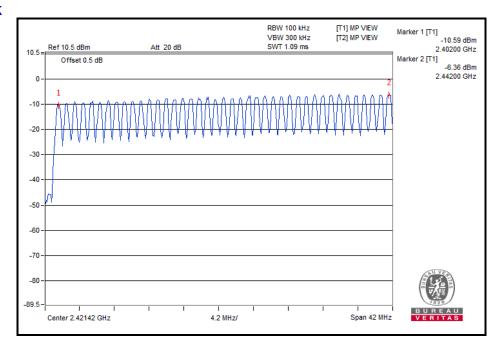
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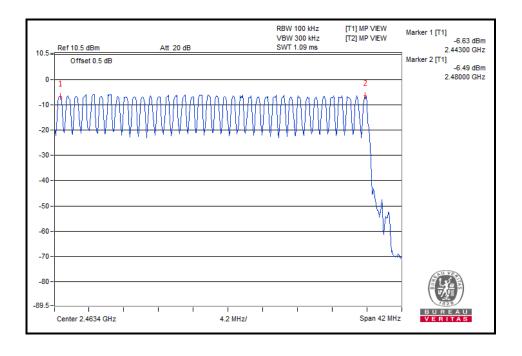
4.2.6. TEST RESULTS

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



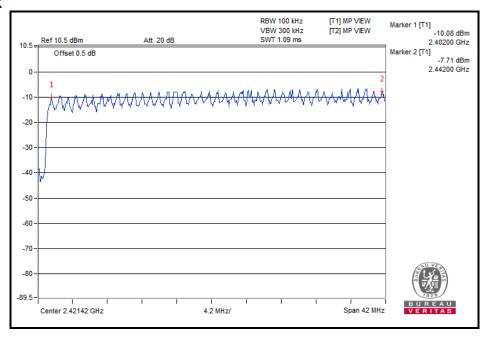
GFSK

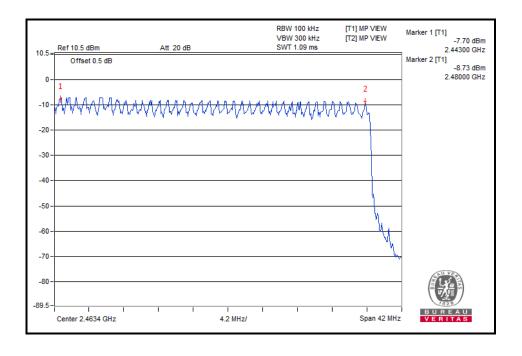






8DPSK





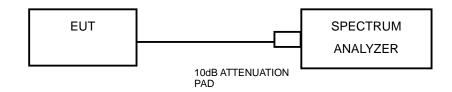


4.3. DWELL TIME ON EACH CHANNEL

4.3.1. 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.

4.3.2. TEST SETUP



4.3.3. TEST INSTRUMENTS

Refer to section 4.2.3 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. 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.
- Repeat above procedures until all different time-slot modes have been completed.

4.3.5. DEVIATION FROM TEST STANDARD

No deviation.



4.3.6. TEST RESULTS

GFSK

	Number of		ber of tra			Length of	Pocult	Result	Limit	PASS/
Mode	Hopping Channel	period (sec)	sweep time (sec)	times in a sweep	times in a period	transmission time (msec)	(msec)	(msec)	FAIL	
DH1	79	31.6	5	50	316.00	0.450	142.20	400	PASS	
DH3	79	31.6	5	25	158.00	1.730	273.34	400	PASS	
DH5	79	31.6	5	17	107.44	2.976	319.74	400	PASS	

8DPSK

	Number of	nerioc	ber of tra			Length of	Result (msec)	Result	Limit	PASS/
Mode	Hopping Channel	period (sec)	sweep time (sec)	times in a sweep	times in a period	transmission time (msec)		(msec)	FAIL	
3DH1	79	31.6	5	50	316.00	0.456	144.10	400	PASS	
3DH3	79	31.6	5	25	158.00	1.740	274.92	400	PASS	
3DH5	79	31.6	5	17	107.44	3.024	324.90	400	PASS	

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



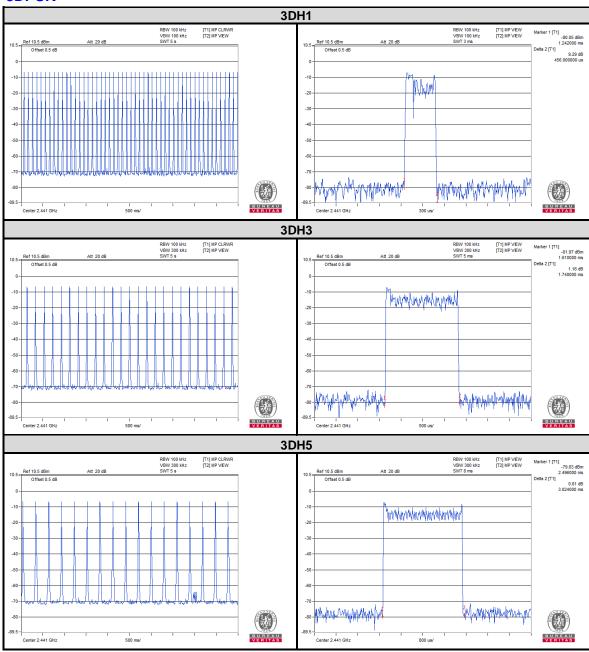
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Page 39 of 58

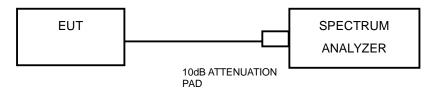


4.4. CHANNEL BANDWIDTH

4.4.1. 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 20dBbandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

4.4.2. TEST SETUP



4.4.3. TEST INSTRUMENTS

Refer to section 4.2.3 to get information of above instrument.

4.4.4. 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.

4.4.5. DEVIATION FROM TEST STANDARD

No deviation.

4.4.6. EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

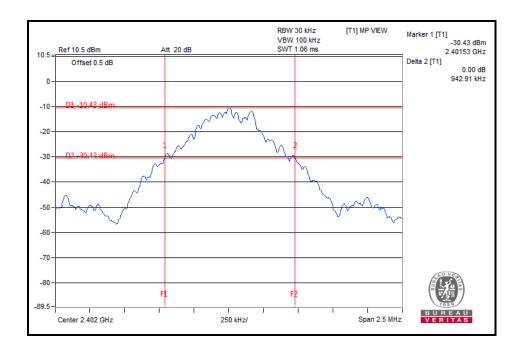


4.4.7. TEST RESULTS

GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
0	2402	0.943
39	2441	0.944
78	2480	0.945

CH₀

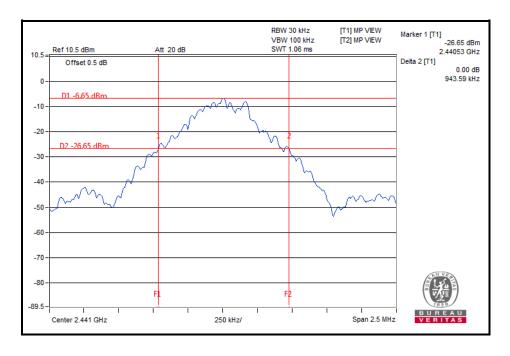


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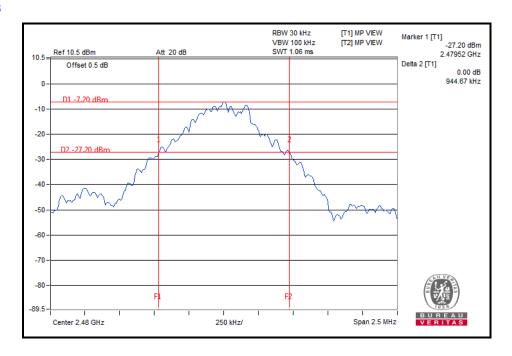
Page 41 of 58



CH 39



CH 78



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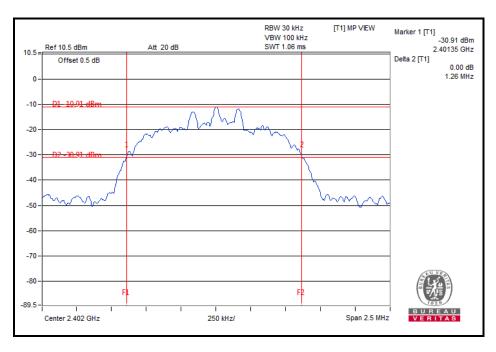
Page 42 of 58



8DPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	20dB BANDWIDTH (MHz)
0	2402	1.26
39	2441	1.26
78	2480	1.26

CH₀

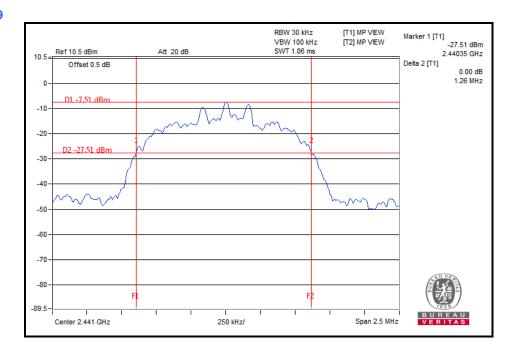


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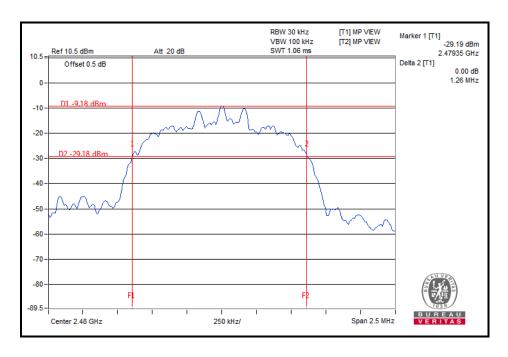
Page 43 of 58



CH 39



CH 78



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Page 44 of 58

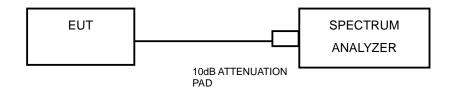


4.5. HOPPING CHANNEL SEPARATION

4.5.1. LIMIT OF HOPPING CHANNEL SEPARATION

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

4.5.2. TEST SETUP



4.5.3. TEST INSTRUMENTS

Refer to section 4.2.3 to get information of above instrument.

4.5.4. 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.

4.5.5. DEVIATION FROM TEST STANDARD

No deviation.



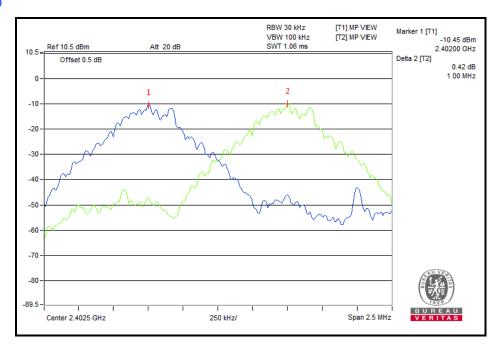
4.5.6. TEST RESULTS

GFSK

CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)	20dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.00	0.943	0.629	PASS
39	2441	1.00	0.944	0.629	PASS
78	2480	1.00	0.945	0.630	PASS

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

CH₀

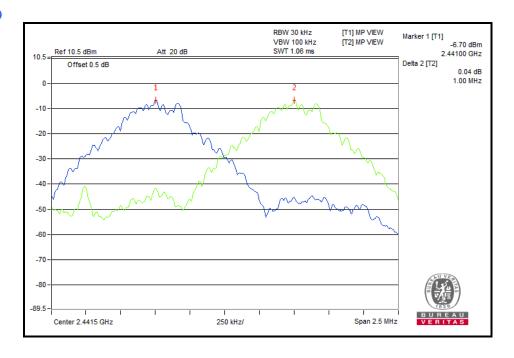


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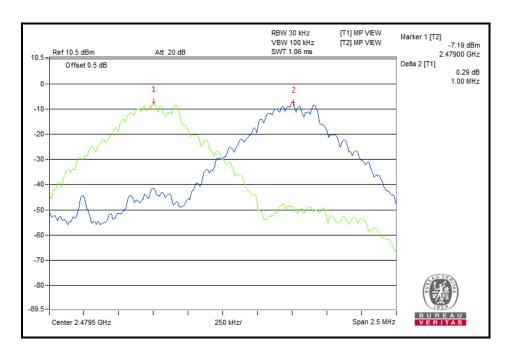
Page 46 of 58



CH 39



CH 78



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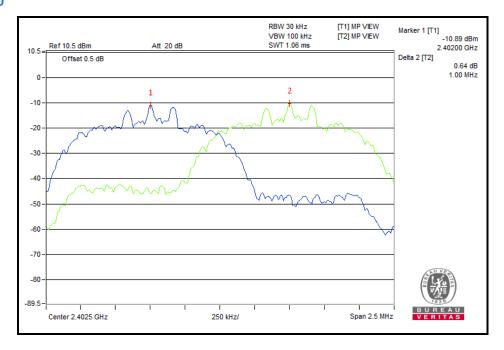


8DPSK

CHANNEL	FREQUENCY (MHz)	ADJACENT CHANNEL SEPARATION (MHz)	20dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	1.00	1.26	0.840	PASS
39	2441	1.00	1.26	0.840	PASS
78	2480	1.00	1.26	0.840	PASS

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

CH₀

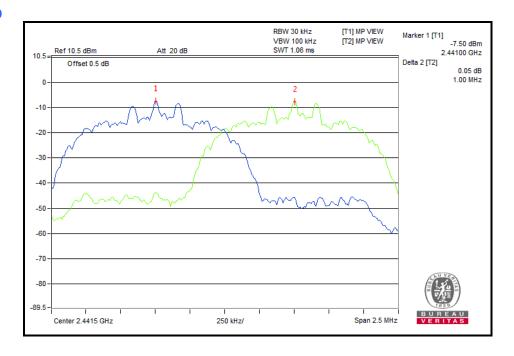


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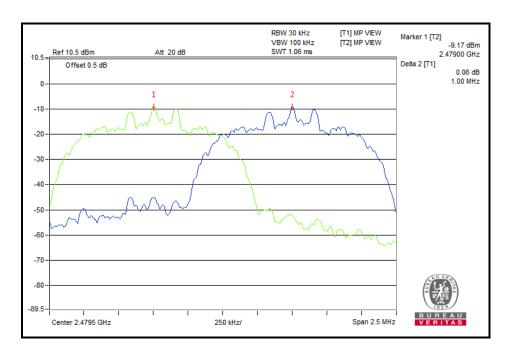
Page 48 of 58



CH 39



CH 78



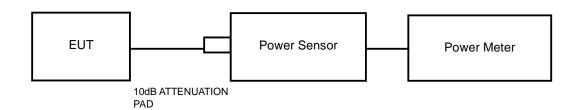


4.6. MAXIMUM OUTPUT POWER

4.6.1. LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

4.6.2. TEST SETUP



4.6.3. TEST INSTRUMENTS

Refer to section 4.2.3 to get information of above instrument.

4.6.4. TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A peak power meter was used to read the response of the peak power sensor. Record the peak power level.

4.6.5. DEVIATION FROM TEST STANDARD

No deviation.

4.6.6. EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.6.7. TEST RESULTS

MAXIMUM PEAK OUTPUT POWER

GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (mW)	PASS/FAIL
0	2402	-6.03	0.2495	125	PASS
39	2441	-2.52	0.5598	125	PASS
78	2480	-3.12	0.4875	125	PASS

8DPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (mW)	PASS/FAIL
0	2402	-7.08	0.1959	125	PASS
39	2441	-3.88	0.4093	125	PASS
78	2480	-4.83	0.3289	125	PASS

AVERAGE OUTPUT POWER (FOR REFERENCE)

GFSK

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
0	2402	-7.28
39	2441	-3.77
78	2480	-4.37

8DPSK

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)
0	2402	-9.63
39	2441	-6.46
78	2480	-7.38



4.7. OUT OF BAND EMISSION MEASUREMENT

4.7.1. LIMITS OF out of band EMISSION MEASUREMENT

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

4.7.2. TEST INSTRUMENTS

Refer to section 4.2.3 to get information of above instrument.

4.7.3. TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. of Spectrum Analyzer was set RBW to 100 kHz and VBW to 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. Detector = PEAK and Trace mode = Max Hold. The band edges was measured and recorded.

4.7.4. DEVIATION FROM TEST STANDARD

No deviation.

4.7.5. EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

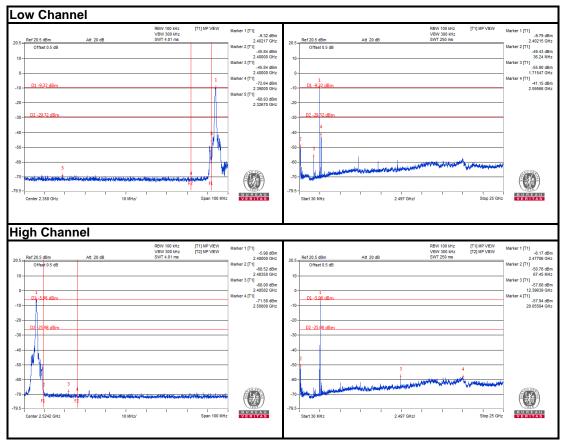
4.7.6. TEST RESULTS

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 to the requirement.

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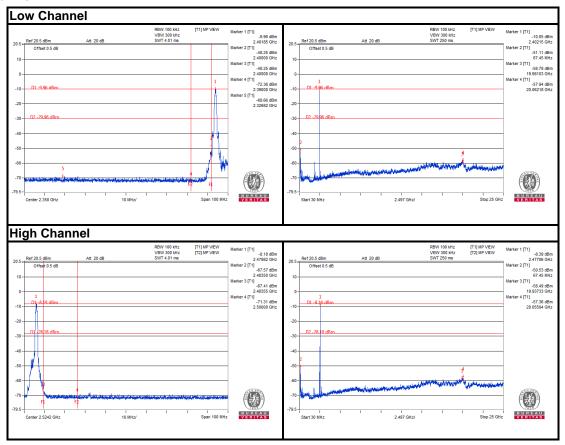


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Page 53 of 58



8DPSK

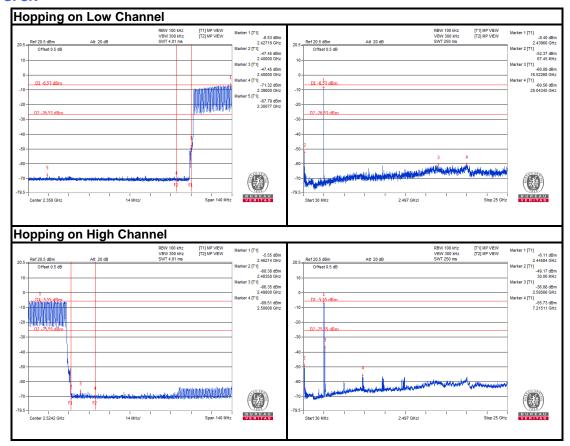


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Page 54 of 58



GFSK

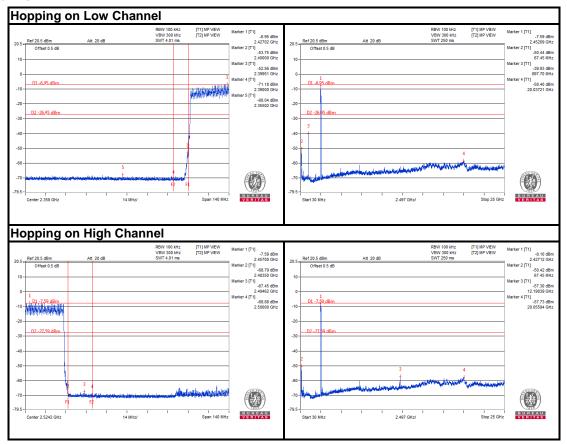


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Page 55 of 58



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Page 56 of 58



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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6. 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.

---END---