



FCC TEST REPORT

(Part 15, Subpart C)

Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Manufacturer or				
Supplier:	Xiaomi Communications Co., Ltd.			
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China,			
Address.	100085			
Product:	Wireless Earphones			
Brand Name:	Xiaomi			
Model Name:	M2438E1			
FCC ID:	2AFZZM2438E1			
Date of tests:	Nov. 12, 2024 ~ Jan. 03, 2025			
The tests have bee	en carried out according to the requi	rements of the following standard:		
FCC Part 15, S	Subpart C, Section 15.247			
ANSI C63.10-2	2020			
CONCLUSION: TH	ne submitted sample was found to	O COMPLY with the test requirement		
Prep	ared by Simon Wang	Approved by Luke Lu		
Engine	er / Mobile Department	Manager / Mobile Department		
Simon wang luke lu				
Date: Jan. 03, 2025 Date: Jan. 03, 2025				
This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/ops/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with ten permission. This report tests forth our findings solely with respect to the test samples identified herein. The results see forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested of writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be ir writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of the completeness of the isoper contents.				

BV 7Layers Communications Technology (Shenzhen) Co., Ltd



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-241112W001RF01	Original release	Jan. 03, 2025



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C					
STANDARD	TEST TYPE AND LIMIT	RESULT			
15.207	AC Power Conducted Emission	Compliance			
15.247(a)(1) (iii)	Number of Hopping Frequency Used	Compliance			
15.247(a)(1) (iii)	Dwell Time on Each Channel Compliance				
15.247(a)(1)	1. Hopping Channel Separation2. Spectrum Bandwidth of a Frequency Hopping SequenceSpread Spectrum System				
15.247(b)	Maximum Peak Output Power	Compliance			
15.247(d)& 15.209	Transmitter Radiated Emissions	Compliance			
15.247(d)	Out of band Measurement	Compliance			
15.203	Antenna Requirement	Compliance			

NOTE:

- 1. 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Lab Information Reference:

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Lab Address:

Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

Accredited Test Lab Cert 3939.01



1.1 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	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

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



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Wireless Earphones			
BRAND NAME	Xiaomi			
MODEL NAME	M2438E1			
NOMINAL VOLTAGE	3.87Vdc(Li-ion, battery) for Charging case 3.88Vdc(Li-ion, battery) for Earphone			
MODULATION TECHNOLOGY	FHSS			
MODULATION TYPE	GFSK,π/4 DQPSK,8DPSK			
OPERATING FREQUENCY	2402MHz~2480MHz			
NUMBER OF CHANNEL	. 79			
MAX. OUTPUT POWER	17.62mW (Max. Measured)			
ANTENNA TYPE	LEFT: PIFA Antenna with -7.06 dBi gain RIGHT: PIFA Antenna with -7 dBi gain			
HW VERSION	V3			
SW VERSION	0.0.6.7 for Charging case O71_W_2.0.4.8_241211 for Earphone			
I/O PORTS	Refer to user's manual			
CABLE SUPPLIED USB cable1: non-shielded cable, with w/o ferrite core, meter USB cable2: non-shielded cable, with w/o ferrite core, meter				

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. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



2.2 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		



2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 4 photograph of the test configuration for reference.

2.2.2 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		DECODIPTION
MODE	RE<1G	RE≥1G	PLC	APCM	DESCRIPTION
-	\checkmark	\checkmark			-
	10 Ded	atad Emia			PEN40: Dedicted Emission chase 4015

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

RE≥1G: Radiated Emission above 1GHz **APCM:** Antenna Port Conducted Measurement

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.

The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE	AVAILABLE	TESTED	MODULATION	MODULATION	PACKET
MODE	CHANNEL	CHANNEL	TECHNOLOGY	TYPE	TYPE
-	0 to 78	78	FHSS	GFSK	1DH5

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.
- The following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE	AVAILABLE	TESTED	MODULATION	MODULATION	PACKET
MODE	CHANNEL	CHANNEL	TECHNOLOGY	TYPE	TYPE
-	0 to 78	0, 39, 78	FHSS	GFSK	1DH5



POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.
- \boxtimes

1			· · · · · · · · · · · · · · · · · · ·	a) a classical for the final test and listed below.
	I ne tollowind	channells	si was (we	re) selected for the final test as listed below.
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EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0, 39, 78	FHSS	GFSK	1DH5
-	0 to 78	0, 39, 78	FHSS	π/4 DQPSK	2DH5
-	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.
- The 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	DH1/DH3/DH5
0 to 78	0, 39, 78	FHSS	π/4 DQPSK	2DH1/2DH3/2DH5
0 to 78	0, 39, 78	FHSS	8DPSK	3DH1/3DH3/3DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	23deg. C, 70%RH	DC 3.88V By Battery	Jace Hu
RE≥1G	23deg. C, 70%RH	DC 3.88V By Battery	Jace Hu
PLC	25deg. C, 52%RH	DC 3.88V By Battery	Carl Xie
APCM	25deg. C, 60%RH	DC 3.88V By Battery	James Fu



2.3 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 C63.10-2020

NOTE: 1. All test items have been performed and recorded as per the above standards.

2. 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 (Certification). The test report has been issued separately.

2.4 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.

1 N/A N/A N/A N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Line: Shielded, Detachable 1m;



3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

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

NOTE: 1.The lower limit shall apply at the transition frequencies.

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

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 13,24	Feb. 12,25
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 02,24	Mar. 01,25

NOTE: 1. The test was performed in CE shielded 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.
- 3.1.3 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.

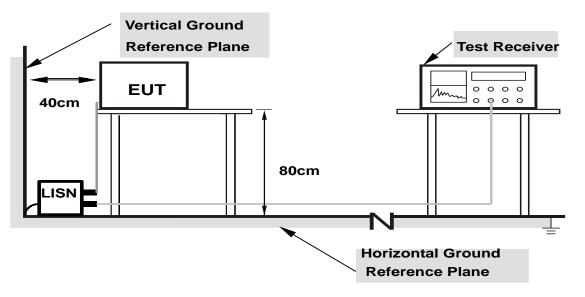
NOTE: All modes of operation were investigated and the worst-case emissions are reported.



3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

3.1.5 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).

- 3.1.6 EUT OPERATING CONDITIONS
 - a. Turned on the power and connected of all equipment.
 - b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.



3.1.7 TEST RESULTS

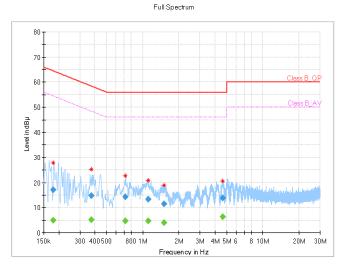
CONDUCTED WORST-CASE DATA:

Frequency Range		Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120\/ac_60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179000		4.82	54.53	49.71	L1	ON	9.8
0.179000	17.06		64.53	47.47	L1	ON	9.8
0.375000		5.09	48.39	43.30	L1	ON	9.8
0.375000	14.83		58.39	43.56	L1	ON	9.8
0.719000		4.76	46.00	41.24	L1	ON	9.8
0.719000	14.19		56.00	41.81	L1	ON	9.8
1.111000		4.61	46.00	41.39	L1	ON	9.8
1.111000	13.44		56.00	42.56	L1	ON	9.8
1.503000		4.08	46.00	41.92	L1	ON	9.8
1.503000	11.37		56.00	44.63	L1	ON	9.8
4.659000		6.27	46.00	39.73	L1	ON	9.7
4.659000	13.88		56.00	42.12	L1	ON	9.7

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 = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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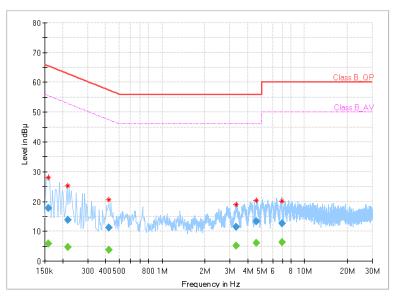
Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl xie		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.158000		5.85	55.57	49.72	N	ON	9.7
0.158000	17.69		65.57	47.88	N	ON	9.7
0.218000		4.68	52.90	48.22	Ν	ON	9.6
0.218000	13.82		62.90	49.08	N	ON	9.6
0.422000		3.86	47.41	43.55	N	ON	9.6
0.422000	11.30		57.41	46.11	N	ON	9.6
3.310000		5.13	46.00	40.87	N	ON	9.8
3.310000	11.50		56.00	44.50	N	ON	9.8
4.606000		6.02	46.00	39.98	N	ON	9.7
4.606000	13.33		56.00	42.67	N	ON	9.7
6.916000		6.34	50.00	43.66	N	ON	10.1
6.916000	12.60		60.00	47.40	N	ON	10.1

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 = Limit value Emission level
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



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3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.2.1 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.



3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn- CT0001143-1216	May. 18,23	May. 17,26
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 04,24	Mar. 03,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 04,24	Mar. 03,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40- K-SG/QMS-003 61	15433	Aug. 25, 24	Aug. 24, 25
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	May. 31,24	May. 30,25
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 19,24	Feb. 18,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,24	May.09,25
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 19,24	Feb.18,25
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 22,24	Aug. 21,25
Power Meter	Anritsu	ML2495A	1506002	Feb. 20,24	Feb. 19,25
Power Sensor	Anritsu	MA2411B	1339352	May. 12,24	May. 11,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep. 02,24	Sep. 01,25

- **NOTE:** 1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 - 2. The test was performed in 3m Chamber.
 - 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.



3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. 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. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
- 4. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit.
- 5. All modes of operation were investigated and the worst-case emissions are reported.

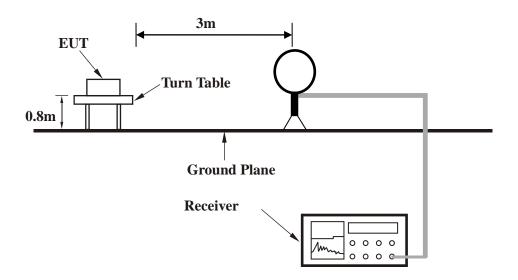
3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

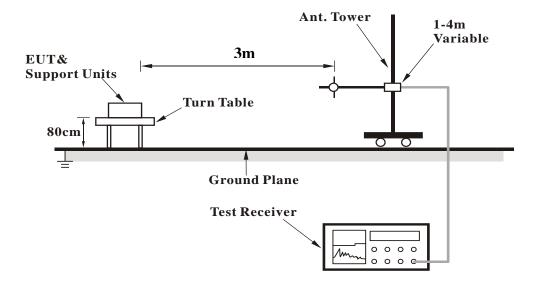


3.2.5 TEST SETUP

<Frequency Range 9KHz~30MHz >

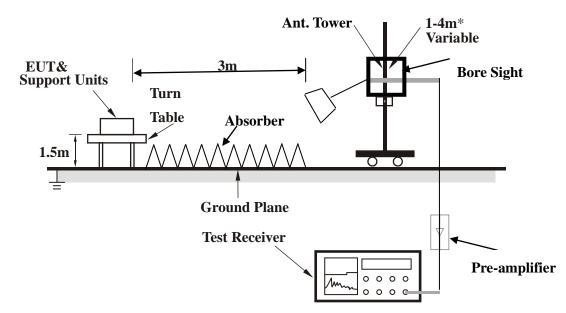


< Frequency Range 30MHz~1GHz >





<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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

3.2.6 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.



3.2.7 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

RIGHT

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

BT_π/4-DQPSK

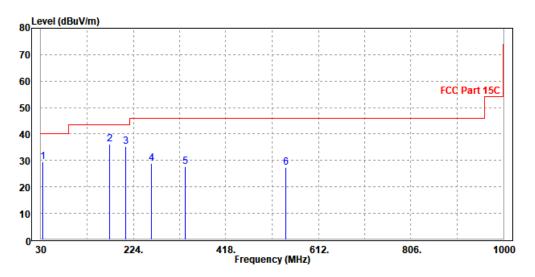
CHANNEL	Channel 78		Quasi Daak (QD)
FREQUENCY RANGE		DETECTOR FUNCTION	Quasi-Peak (QP)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
_	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 2 PP 3 4 5 6	33.880 174.530 207.510 261.830 333.610 544.100	29.42 36.08 35.17 28.86 27.67 27.52	43.30 56.14 54.11 44.91 43.00 35.44	43.50 43.50 46.00 46.00	-10.58 -7.42 -8.33 -17.14 -18.33 -18.48	-20.06 -18.94 -16.05 -15.33	Peak Peak Peak Peak	Horizontal Horizontal Horizontal Horizontal Horizontal Horizontal

REMARKS:

- 1. Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)
- 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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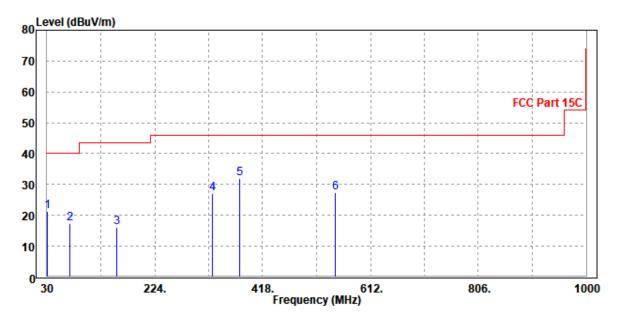
CHANNEL	Channel 78	DETECTOR FUNCTION	Quasi Baak (QD)
FREQUENCY RANGE		DETECTOR FUNCTION	Quasi-Peak (QP)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
_	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 2 3 4 5 PP 6	30.970 70.740 156.100 327.790 376.290 547.980	17.38 16.04	42.94 45.17		-22.62 -27.46 -18.78 -14.05	-23.70 -18.91 -15.72 -13.22	Peak Peak Peak Peak	Vertical Vertical Vertical Vertical Vertical Vertical

REMARKS:

- 1. Emission Level(dBuV/m) = Read Level(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





ABOVE 1GHz WORST-CASE DATA:

Note: 1. For radiated emissions testing [,] the full testing range of different modes have been scanned [,] only the worst case harmonic data is reported in the sheet.

2. All other emissions were greater than 20dB below the limit is not recorded

1GHz – 25GHz: (Scan with GFSK, π /4-DQPSK, 8DPSK mode, the worst case is π /4-DQPSK Mode)

BT_GFSK

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

		ANT	ENNA PO		& TEST D	ISTANCE	E: HORIZ	ONTAL AT 3	3 M
						н			
				Read	Limit	0ver			
		Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	_								
		MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1		2390.000	10 69	57.25	74 00	24 22	7 57	Dook	Horizontal
2									
_	DIZ	2390.000						Average	
		2402.000							Horizontal
								Average	
5		2483.500							Horizontal
6		2483.500	43.50	49.24	54.00	-10.50	-5.74	Average	Horizontal
		AN	TENNA P		& TEST	DISTAN	CE: VERT	FICAL AT 3 I	N
				-					
				Read	Limit	0ver			
		Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
		MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	l	
1		2390.000	52.98	58.99	74.00	-21.02	-6.01	Peak	Vertical
2		2390.000	43.55	49.56	54.00	-10.45	-6.01	Average	Vertical
3	PK	2402.000	101.57	107.78	74.00	27.57	-6.21	Peak	Vertical
4	PP	2402.000	101.44	107.65	54.00	47.44	-6.21	Average	Vertical
5		2483.500	49.74	56.62	74.00	-24.26	-6.88	Peak	Vertical
6		2483.500	42.62	49.50	54.00	-11.38	-6.88	Average	Vertical

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
- Margin value = Emission level Limit value.
- 2. 2402MHz: Fundamental frequency.

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

	ANT	ENNA PO		& TEST D	ISTANCE	E: HORIZ	ONTAL AT 3	вМ
			Read	Limit	0ver			
	Fred	Level				Factor	Remark	Pol/Phase
	1104		LEVEL	CINC	LIMIC	i uc coi	Reliar K	101/1103C
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	2390.000	48.99	56.56	74.00	-25.01	-7.57	Peak	Horizontal
2	2390.000	41.73	49.30	54.00	-12.27	-7.57	Average	Horizontal
3 PK	2441.000	100.83	106.81	74.00	26.83	-5.98	Peak	Horizontal
4 PP	2441.000	100.31	106.29	54.00	46.31	-5.98	Average	Horizontal
5	2483.500	50.16	55.90	74.00	-23.84	-5.74	Peak	Horizontal
6	2483.500	43.38	49.12	54.00	-10.62	-5.74	Average	Horizontal
	AN	TENNA P	OLARITY	& TEST	DISTAN	CE: VERT	ICAL AT 3	И
			Read					
	Freq	Level	Read Level				Remark	Pol/Phase
			Level	Line	Limit	Factor		Pol/Phase
				Line	Limit	Factor		Pol/Phase
1		dBuV/m	Level	Line dBuV/m	Limit 	Factor 		Pol/Phase Vertical
1 2	MHz	dBuV/m	Level dBuV 56.07	Line dBuV/m	Limit 	Factor dB/m -6.01		Vertical
2	MHz 2390.000	dBuV/m 50.06 43.53	Level dBuV 56.07 49.54	Line dBuV/m 74.00 54.00	Limit dB -23.94 -10.47	Factor dB/m -6.01 -6.01	Peak Average	Vertical
2 3 PK	MHz 2390.000 2390.000 2441.000	dBuV/m 50.06 43.53 97.07	Level dBuV 56.07 49.54 104.14	Line dBuV/m 74.00 54.00 74.00	Limit dB -23.94 -10.47 23.07	Factor dB/m -6.01 -6.01 -7.07	Peak Average Peak	Vertical Vertical
2 3 PK	MHz 2390.000 2390.000 2441.000 2441.000	dBuV/m 50.06 43.53 97.07 97.03	Level dBuV 56.07 49.54 104.14 104.10	Line dBuV/m 74.00 54.00 74.00 54.00	Limit dB -23.94 -10.47 23.07 43.03	Factor dB/m -6.01 -6.01 -7.07 -7.07	Peak Average Peak	Vertical Vertical Vertical Vertical
2 3 PK 4 PP	MHz 2390.000 2390.000 2441.000 2441.000	dBuV/m 50.06 43.53 97.07 97.03 50.97	Level dBuV 56.07 49.54 104.14 104.10 57.85	Line dBuV/m 74.00 54.00 74.00 54.00 74.00	Limit dB -23.94 -10.47 23.07 43.03 -23.03	Factor dB/m -6.01 -6.01 -7.07 -7.07 -6.88	Peak Average Peak Average Peak	Vertical Vertical Vertical Vertical

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2441MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
				Read	Limit	0ver			
		Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	-				10.1//				
		MHZ	dBuV/m	aBuv	dBuV/m	aB	dB/m		
1		2390.000	48.69	56.26	74.00	-25.31	-7.57	Peak	Horizontal
2		2390.000	41.76	49.33	54.00	-12.24	-7.57	Average	Horizontal
3	РК	2480.000	100.25	105.99	74.00	26.25	-5.74	Peak	Horizontal
4	PP	2480.000	100.07	105.81	54.00	46.07	-5.74	Average	Horizontal
5		2483.500	64.92	70.66	74.00	-9.08	-5.74	Peak	Horizontal
6		2483.500	50.20	55.94	54.00	-3.80	-5.74	Average	Horizontal
		A N I			O TECT				1
		AN	TENNA P	OLARITY	' & TEST	DISTAN	CE: VER1	ICAL AT 3	М
		AN	TENNA P	OLARITY Read				ICAL AT 3 I	Μ
				Read	Limit	0ver			M Pol/Phase
		Freq	Level	Read Level	Limit Line	Over Limit	Factor		
		Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	
		Freq MHz	Level dBuV/m	Read Level dBuV	Limit Line dBuV/m	Over Limit 	Factor dB/m	Remark	Pol/Phase
1		Freq MHz 2390.000	Level dBuV/m 50.66	Read Level dBuV 56.67	Limit Line dBuV/m 74.00	Over Limit dB -23.34	Factor dB/m -6.01	Remark Peak	Pol/Phase
2		Freq MHz 2390.000 2390.000	Level dBuV/m 50.66 43.29	Read Level dBuV 56.67 49.30	Limit Line dBuV/m 74.00 54.00	Over Limit 	Factor dB/m -6.01 -6.01	Remark Peak Average	Pol/Phase Vertical Vertical
2	РК	Freq MHz 2390.000 2390.000 2480.000	Level dBuV/m 50.66 43.29 97.82	Read Level dBuV 56.67 49.30 104.74	Limit Line dBuV/m 74.00 54.00 74.00	Over Limit dB -23.34 -10.71 23.82	Factor dB/m -6.01 -6.01 -6.92	Remark Peak Average Peak	Pol/Phase Vertical Vertical Vertical
2 3 4	PK PP	Freq MHz 2390.000 2390.000 2480.000 2480.000	Level dBuV/m 50.66 43.29 97.82 97.35	Read Level dBuV 56.67 49.30 104.74 104.27	Limit Line dBuV/m 74.00 54.00 74.00 54.00	Over Limit dB -23.34 -10.71 23.82 43.35	Factor dB/m -6.01 -6.01 -6.92 -6.92	Remark Peak Average Peak Average	Pol/Phase Vertical Vertical Vertical Vertical
2 3 4 5	PK PP	Freq MHz 2390.000 2390.000 2480.000 2480.000 2483.500	Level dBuV/m 50.66 43.29 97.82 97.35 68.32	Read Level dBuV 56.67 49.30 104.74 104.27 75.20	Limit Line dBuV/m 74.00 54.00 74.00 54.00 74.00	Over Limit -23.34 -10.71 23.82 43.35 -5.68	Factor dB/m -6.01 -6.01 -6.92 -6.92 -6.88	Remark Peak Average Peak Average Peak	Pol/Phase Vertical Vertical Vertical Vertical Vertical
2 3 4	PK PP	Freq MHz 2390.000 2390.000 2480.000 2480.000 2483.500	Level dBuV/m 50.66 43.29 97.82 97.35 68.32	Read Level dBuV 56.67 49.30 104.74 104.27 75.20	Limit Line dBuV/m 74.00 54.00 74.00 54.00 74.00	Over Limit -23.34 -10.71 23.82 43.35 -5.68	Factor dB/m -6.01 -6.01 -6.92 -6.92 -6.88	Remark Peak Average Peak Average Peak	Pol/Phase Vertical Vertical Vertical Vertical

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2480MHz: Fundamental frequency.



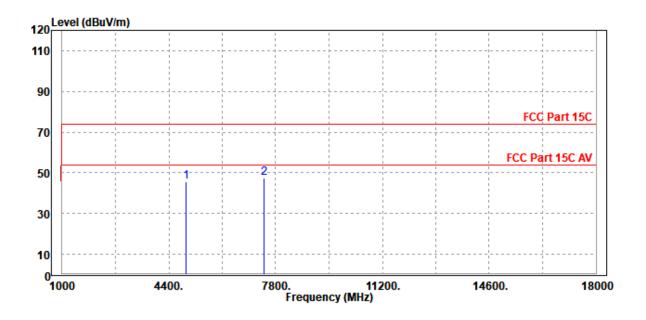
VERITAS Worst case harmonic:

BT_GFSK

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 2 P	4961.000 P 7440.000							Horizontal Horizontal



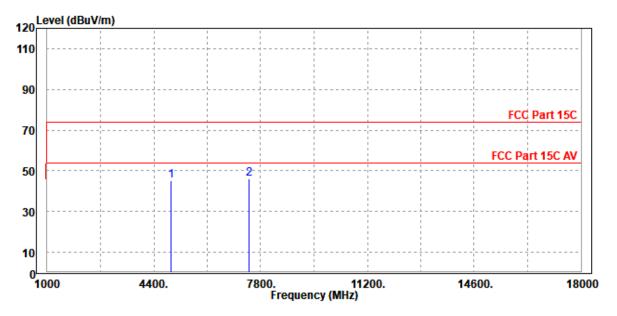


	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 2 P	4960.000 P 7443.000							Vertical Vertical

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2480MHz: Fundamental frequency.
- 3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.





LEFT

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

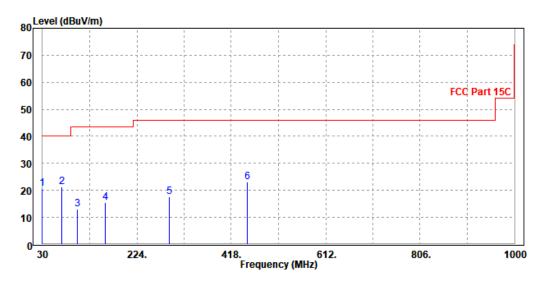
$BT_{\pi/4}-DQPSK$

CHANNEL	Channel 78	DETECTOR FUNCTION	Quasi Baak (QB)
FREQUENCY RANGE		DETECTOR FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase	
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m			
1	30.000	20.77	33.08	40.00	-19.23	-12.31	Peak	Horizontal	
2 PP	69.770	21.24	44.88	40.00	-18.76	-23.64	Peak	Horizontal	
3	101.780	13.21	34.98	43.50	-30.29	-21.77	Peak	Horizontal	
4	159.010	15.39	34.41	43.50	-28.11	-19.02	Peak	Horizontal	
5	290.930	17.56	34.43	46.00	-28.44	-16.87	Peak	Horizontal	
6	450.980	23.13	34.61	46.00	-22.87	-11.48	Peak	Horizontal	

REMARKS:

- 1. Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)
- 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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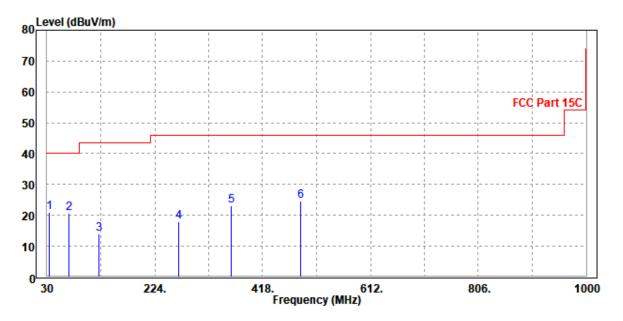
CHANNEL	Channel 78	DETECTOR FUNCTION	Quasi Baak (QD)
FREQUENCY RANGE		DETECTOR FUNCTION	Quasi-Peak (QP)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 PP 2 3 4 5 6	34.850 69.770 124.090 266.680 361.740 486.870	21.04 20.53 13.94 17.80 23.19 24.59	44.17 37.00 33.85 36.53	40.00 40.00 43.50 46.00 46.00	-19.47 -29.56 -28.20 -22.81	-23.64 -23.06 -16.05 -13.34	Peak Peak Peak Peak	Vertical Vertical Vertical Vertical Vertical Vertical

REMARKS:

- 1. Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)
- 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





ABOVE 1GHz WORST-CASE DATA:

Note: 1. For radiated emissions testing , the full testing range of different modes have been scanned , only the worst case harmonic data is reported in the sheet.

2. All other emissions were greater than 20dB below the limit is not recorded

1GHz – 25GHz: (Scan with GFSK, π /4-DQPSK, 8DPSK mode, the worst case is π /4-DQPSK Mode)

BT_GFSK

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
	_			Limit	0ver		_ .	
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	2390.000	55.07	62.64	74.00	-18.93	-7.57	Peak	Horizontal
2	2390.000	42.94	50.51	54.00	-11.06	-7.57	Average	Horizontal
3 PK	2402.000	99.10	106.40	74.00	25.10	-7.30	Peak	Horizontal
4 PP	2402.000	98.97	106.27	54.00	44.97	-7.30	Average	Horizontal
5	2483.500	51.05	56.79	74.00	-22.95	-5.74	Peak	Horizontal
6	2483.500	43.57	49.31	54.00	-10.43	-5.74	Average	Horizontal
	AN	TENNA P	OLARIT	(& TEST	DISTAN	CE: VER1	ICAL AT 3	М
	AN	TENNA P					ICAL AT 3	М
			Read	Limit	0ver			
				Limit	0ver		TICAL AT 3 I Remark	M Pol/Phase
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	
	Freq	Level	Read	Limit Line	Over Limit	Factor	Remark	
1	Freq	Level dBuV/m	Read Level	Limit Line dBuV/m	Over Limit dB	Factor dB/m	Remark	
1 2	Freq MHz	Level 	Read Level dBuV 63.41	Limit Line dBuV/m	Over Limit dB -16.60	Factor dB/m -6.01	Remark	Pol/Phase Vertical
2	Freq MHz 2390.000	Level dBuV/m 57.40 43.92	Read Level dBuV 63.41	Limit Line dBuV/m 74.00 54.00	Over Limit 	Factor dB/m -6.01 -6.01	Remark Peak	Pol/Phase Vertical
2 3 PK	Freq MHz 2390.000 2390.000 2402.000	Level dBuV/m 57.40 43.92 99.87	Read Level dBuV 63.41 49.93 106.08	Limit Line dBuV/m 74.00 54.00 74.00	Over Limit dB -16.60 -10.08 25.87	Factor dB/m -6.01 -6.01 -6.21	Remark Peak Average Peak	Pol/Phase Vertical Vertical
2 3 PK	Freq MHz 2390.000 2390.000 2402.000 2402.000	Level dBuV/m 57.40 43.92 99.87 99.74	Read Level dBuV 63.41 49.93 106.08 105.95	Limit Line dBuV/m 74.00 54.00 74.00 54.00	Over Limit -16.60 -10.08 25.87 45.74	Factor dB/m -6.01 -6.01 -6.21 -6.21	Remark Peak Average Peak	Pol/Phase Vertical Vertical Vertical Vertical

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2402MHz: Fundamental frequency.

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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
			Read	Limit	0ver			
	Ener	Level				Factor	Remark	Pol/Phase
	неч	LEVEL	Level	LTHE	LIMIC	i ac coi	Nellial K	101/11/032
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	2390.000	49.31	56.88	74.00	-24.69	-7.57	Peak	Horizontal
2	2390.000	41.91	49.48	54.00	-12.09	-7.57	Average	Horizontal
3 PK	2441.000	101.10	107.08	74.00	27.10	-5.98	Peak	Horizontal
4 PP	2441.000	101.01	106.99	54.00	47.01	-5.98	Average	Horizontal
5	2483.500	50.38	56.12	74.00	-23.62	-5.74	Peak	Horizontal
6	2483.500	43.40	49.14	54.00	-10.60	-5.74	Average	Horizontal
	AN	TENNA P	OLARITY	& TEST	DISTAN	CE: VERT	ICAL AT 3 I	M
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	2390,000	50.26	56.27	74.00	-23.74	-6,01	Peak	Vertical
1 2	2390.000			74.00 54.00				Vertical Vertical
2	2390.000	43.22	49.23	54.00	-10.78	-6.01	Average	Vertical
2 3 PK	2390.000 2441.000	43.22 96.28	49.23 103.35	54.00 74.00	-10.78 22.28	-6.01 -7.07	Average Peak	Vertical Vertical
2 3 PK	2390.000 2441.000 2441.000	43.22 96.28 95.95	49.23 103.35 103.02	54.00 74.00 54.00	-10.78 22.28 41.95	-6.01 -7.07 -7.07	Average Peak	Vertical Vertical Vertical
2 3 PK 4 PP	2390.000 2441.000 2441.000 2483.500	43.22 96.28 95.95 49.68	49.23 103.35 103.02 56.56	54.00 74.00 54.00 74.00	-10.78 22.28 41.95 -24.32	-6.01 -7.07 -7.07 -6.88	Average Peak Average Peak	Vertical Vertical Vertical

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2441MHz: Fundamental frequency.



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

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
	Pood Limit Over									
	_		Read		0ver	_				
	Freq	Level	Level	Line	Limit	Factor	Remark	Po1/Phase		
-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m				
1	2390.000		57.40			-7.57		Horizontal		
2							Average	Horizontal		
	2480.000							Horizontal		
4 PP	2480.000	98.93	104.67	54.00	44.93	-5.74	Average	Horizontal		
5	2483.500	70.29	76.03	74.00	-3.71	-5.74	Peak	Horizontal		
6	2483.500	48.29	54.03	54.00	-5.71	-5.74	Average	Horizontal		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
	AN	TENNA P	OLARITY	/ & TEST	DISTAN	CE: VERT	FICAL AT 3 M	Λ		
	AN	TENNA P	-				FICAL AT 3 N	Λ		
			Read	Limit	0ver	-				
		TENNA P Level	Read	Limit	0ver	-	Remark			
	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark			
1	Freq	Level dBuV/m	Read Level dBuV	Limit Line	Over Limit dB	Factor dB/m	Remark			
1 2	Freq MHz	Level dBuV/m 50.73	Read Level dBuV 56.74	Limit Line dBuV/m	Over Limit dB -23.27	Factor dB/m -6.01	Remark Peak	Pol/Phase Vertical		
2	Freq MHz 2390.000	Level dBuV/m 50.73 43.35	Read Level dBuV 56.74 49.36	Limit Line dBuV/m 74.00 54.00	Over Limit dB -23.27 -10.65	Factor dB/m -6.01 -6.01	Remark Peak Average	Pol/Phase Vertical		
2 3 PK	Freq MHz 2390.000 2390.000 2480.000	Level dBuV/m 50.73 43.35 95.17	Read Level dBuV 56.74 49.36 102.09	Limit Line dBuV/m 74.00 54.00 74.00	Over Limit dB -23.27 -10.65 21.17	Factor dB/m -6.01 -6.01 -6.92	Remark Peak Average Peak	Pol/Phase Vertical Vertical Vertical		
2 3 PK	Freq MHz 2390.000 2390.000 2480.000	Level dBuV/m 50.73 43.35 95.17 95.01	Read Level dBuV 56.74 49.36 102.09 101.93	Limit Line dBuV/m 74.00 54.00 74.00	Over Limit dB -23.27 -10.65 21.17 41.01	Factor dB/m -6.01 -6.01 -6.92 -6.92	Remark Peak Average Peak Average	Pol/Phase Vertical Vertical		
2 3 PK 4 PP	Freq MHz 2390.000 2390.000 2480.000 2480.000 2483.500	Level dBuV/m 50.73 43.35 95.17 95.01 65.57	Read Level dBuV 56.74 49.36 102.09 101.93 72.45	Limit Line dBuV/m 74.00 54.00 74.00 54.00 74.00	Over Limit -23.27 -10.65 21.17 41.01 -8.43	Factor dB/m -6.01 -6.01 -6.92 -6.92 -6.88	Remark Peak Average Peak Average Peak	Pol/Phase Vertical Vertical Vertical Vertical		

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2480MHz: Fundamental frequency.



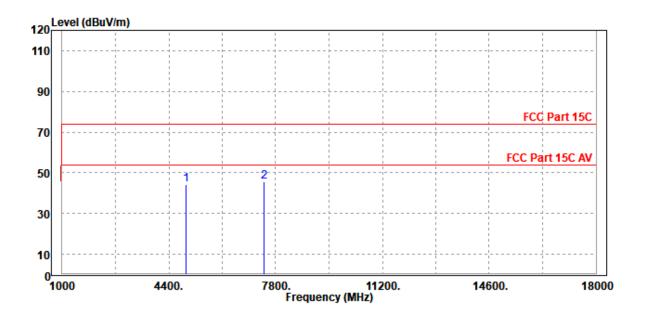
VERITAS Worst case harmonic:

BT_GFSK

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 2	PP	4960.000 7443.000							Horizontal Horizontal



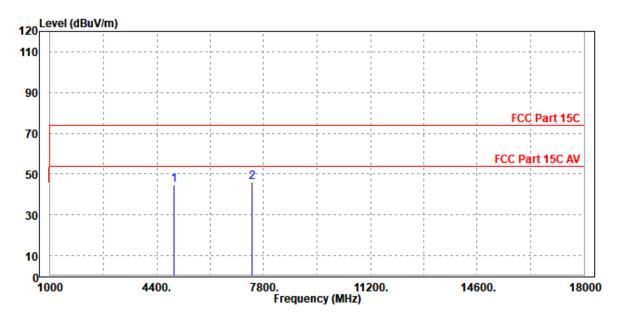


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1 2 PP	4961.000 7440.000							Vertical Vertical

REMARKS:

- 1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor Margin value = Emission level – Limit value.
- 2. 2480MHz: Fundamental frequency.
- 3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



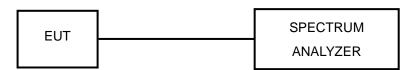


3.3 NUMBER OF HOPPING FREQUENCY USED

3.3.1 LIMIT OF HOPPING FREQUENCY USED

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

3.3.2 TEST SETUP



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 20,24	Feb. 19,25
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 16,24	Feb. 15,25
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.13,24	May.12,25
Power Sensor	ANRITSU	MA2411B	1339352	May. 04,24	May. 03,25

NOTE:

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



3.3.4 TEST PROCEDURES

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

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 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.

Please Refer to Appendix Of this test report.

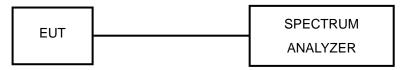


3.4 DWELL TIME ON EACH CHANNEL

3.4.1 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.

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

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



3.4.5 DEVIATION FROM TEST STANDARD No deviation.

3.4.6 TEST RESULTS

Please Refer to Appendix Of this test report

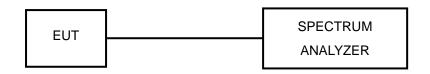


3.5 CHANNEL BANDWIDTH

3.5.1 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 20dBbandwidth of hopping channel shell be a minimum limit for the hopping channel separation.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 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.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.



3.5.6 EUT OPERATING CONDITION

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

3.5.7 TEST RESULTS

Please Refer to Appendix Of this test report.

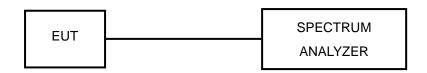


3.6 HOPPING CHANNEL SEPARATION

3.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

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

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.6.4 TEST PROCEDURES

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

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.



3.6.6 TEST RESULTS

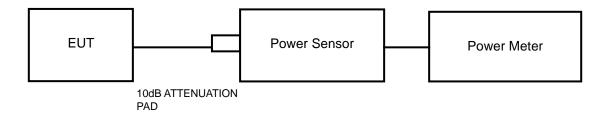
Please Refer to Appendix Of this test report.

3.7 MAXIMUM OUTPUT POWER

3.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

3.7.2 TEST SETUP



3.7.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.7.4 TEST PROCEDURES

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



3.7.5 DEVIATION FROM TEST STANDARD No deviation.

3.7.6 EUT OPERATING CONDITION

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



3.7.7 TEST RESULTS

3.7.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix Of this test report.



3.7.7.2 AVERAGE OUTPUT POWER (FOR REFERENCE)

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

Please Refer to Appendix Of this test report.



3.8 OUT OF BAND MEASUREMENT

3.8.1 LIMITS OF OUT OF BAND MEASUREMENT

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

3.8.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. 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.

3.8.4 DEVIATION FROM TEST STANDARD

No deviation.

3.8.5 EUT OPERATING CONDITION

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

3.8.6 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 to the requirement.

Please Refer to Appendix Of this test report.



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



5 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.



6 APPENDIX

RIGHT

20DB EMISSION BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.945	2401.556	2402.501		
DH5	Ant1	2441	0.933	2440.562	2441.495		
		2480	0.945	2479.556	2480.501		
		2402	1.320	2401.355	2402.675		
2DH5	Ant1	2441	1.311	2440.364	2441.675		
		2480	1.335	2479.346	2480.681		
		2402	1.326	2401.355	2402.681		
3DH5	Ant1	2441	1.299	2440.370	2441.669		
		2480	1.335	2479.349	2480.684		



TEST GRAPHS





















OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.85066	2401.5887	2402.4393		
DH5	Ant1	2441	0.87807	2440.5793	2441.4574		
		2480	0.86943	2479.5839	2480.4533		
		2402	1.1900	2401.4217	2402.6117		
2DH5	Ant1	2441	1.1872	2440.4229	2441.6101		
		2480	1.1889	2479.4199	2480.6088		
		2402	1.2012	2401.4134	2402.6146		
3DH5	Ant1	2441	1.1944	2440.4199	2441.6143		
		2480	1.2116	2479.4072	2480.6188		



TEST GRAPHS



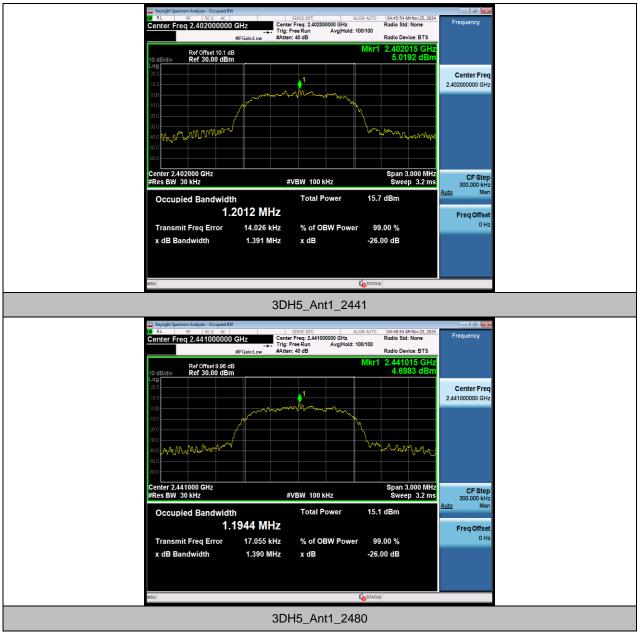


















MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT PEAK

TestMode	Antenna	Frequency [MHz]	Average power [dBm]	Peak Power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
		2402	12.05	12.28	16.90	≤20.97	5.28	3.37	≤36.00	PASS	Defult
DH5	Ant1	2441	12.06	12.41	17.42	≤20.97	5.41	3.48	≤36.00	PASS	Defult
		2480	12.04	12.46	17.62	≤20.97	5.46	3.52	≤36.00	PASS	Defult
		2402	8.88	11.38	13.74	≤20.97	4.38	2.74	≤36.00	PASS	Defult
2DH5	Ant1	2441	8.85	11.41	13.84	≤20.97	4.41	2.76	≤36.00	PASS	Defult
		2480	8.9	11.54	14.26	≤20.97	4.54	2.84	≤36.00	PASS	Defult
		2402	8.81	11.78	15.07	≤20.97	4.78	3.01	≤36.00	PASS	Defult
3DH5	Ant1	2441	8.7	11.92	15.56	≤20.97	4.92	3.10	≤36.00	PASS	Defult
		2480	9.1	12.02	15.92	≤20.97	5.02	3.18	≤36.00	PASS	Defult
Note:EIRP:	=Peak Pow	er+Gain									



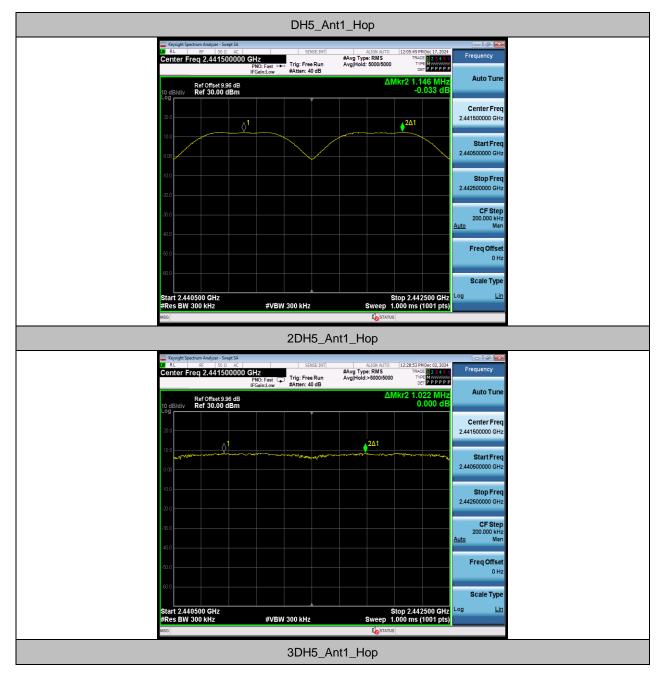
CARRIER FREQUENCY SEPARATION

TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	1.146	≥0.630	PASS
2DH5	Ant1	Нор	1.022	≥0.890	PASS
3DH5	Ant1	Нор	1.144	≥0.890	PASS



TEST GRAPHS



Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China Tel: +86 755 8869 6566 Fax: +86 755 8869 6577 Email: <u>customerservice.sw@bureauveritas.com</u>



Keysight Spectrum Analyzer - Swept SA				- 8 X
Center Freq 2.441500000 GH	Z IO: Fast	ALIGN AUTO 1: #Avg Type: RMS Avg Hold: 5000/5000	2:13:39 PM Dec 02, 2024 TRACE 2 3 4 5 6 TYPE M	Frequency
Ref Offset 9.96 dB 10 dB/div Ref 30.00 dBm		ΔMkr	2 1.144 MHz 0.050 dB	Auto Tune
20.0		241		Center Freq 2.441500000 GHz
	and the second	<u>2Δ1</u>		Start Freq 2.440500000 GHz
-10.0				Stop Freq 2.442500000 GHz
-30.0				CF Step 200.000 kHz <u>Auto</u> Man
-50.0				Freq Offset 0 Hz
-80.0				Scale Type
Start 2.440500 GHz #Res BW 300 kHz	#VBW 300 kHz	Stop Sweep 1.00	o 2.442500 GHz 0 ms (1001 pts)	Log <u>Lin</u>
MSG				



TIME OF OCCUPANCY

TEST RESULT

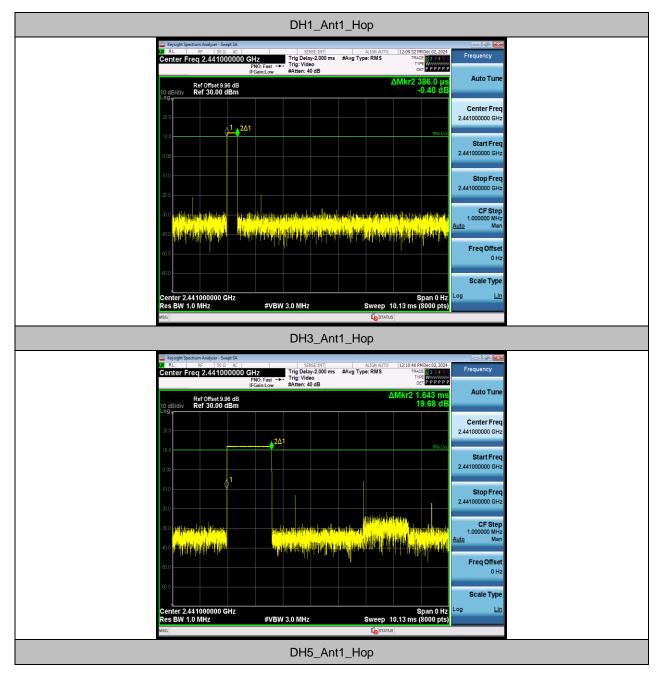
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.386	320	0.124	≤0.4	PASS
DH3	Ant1	Нор	1.643	160	0.263	≤0.4	PASS
DH5	Ant1	Нор	2.891	106	0.306	≤0.4	PASS
2DH1	Ant1	Нор	0.390	320	0.125	≤0.4	PASS
2DH3	Ant1	Нор	1.642	160	0.263	≤0.4	PASS
2DH5	Ant1	Нор	2.889	106	0.306	≤0.4	PASS
3DH1	Ant1	Нор	0.390	320	0.125	≤0.4	PASS
3DH3	Ant1	Нор	1.640	160	0.262	≤0.4	PASS
3DH5	Ant1	Нор	2.892	106	0.307	≤0.4	PASS

NOTE: TotalHops =[1600/(Send and receive Number*79)]*0.4*79;

Send and receive Number : DH1/2DH1/3DH1=2; DH3/2DH3/3DH3=4; DH5/2DH5/3DH5=6



TEST GRAPHS





Keysight Spectrum Analyzer - Swept SA			- 6 8	
00 RL RF 50.0 AC Center Freq 2.441000000 GHz PN0: Fast →→	Trig Delay-2.000 ms #Avg Type: Trig: Video	LIGN AUTO 12:08:55 PM Dec 02, 2024 RMS TRACE 2 3 4 5 6 TYPE W	Frequency	
Ref Offset 9.96 dB	#Atten: 40 dB	ΔMkr2 2.891 ms 20.18 dB	Auto Tune	
10 dB/div Ref 30.00 dBm		20.10 42	Center Freq	
20.0	<u></u> 2Δ1		2.441000000 GHz	
10.0		TRIG LVL	Start Freq	
0.00			2.441000000 GHz	
-10.0			Stop Freq 2.441000000 GHz	
-20.0			CF Step	
-30.0 you with the state of the		ri <mark>n (hillingsini) (organisanisi) (hing sand</mark> Talada di Ukusanisani ang kanta da	1.000000 MHz <u>Auto</u> Man	
	with Month Marini	<mark>a kalin da di kipikan palanan pinan kini kalin palaki</mark>	Freq Offset	
-50.0			0 Hz	
			Scale Type	
Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3	3.0 MHz S	Span 0 Hz weep 10.13 ms (8000 pts)	Log <u>Lin</u>	
MSG		STATUS		
:	2DH1_Ant1_Ho	р		
Keysight Spectrum Analyzer - Swept SA	SENSE:INT AL	LIGN AUTO 12:12:34 PM Dec 02, 2024	Frequency	
Keysight Spectrum Analyzer - Swept SA Μ RL RF S0 Ω AC Center Freq 2.4410000000 GHz PNO: East PT		LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 23 4 5 6 TYPE WITH THE FORM	Frequency	
Keysight Spectrum Analyzer - Sweet SA X	SENSE:INT AL Trig Delay-2.000 ms #Avg Type: Trig: Video	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 2 34 5 6		
tegright Spectrum Analyzer- Swept SA AL 85 500 AC Center Freq 2.441000000 GHz FNO: Fast →→ IF GainLow Ref Offset 9.95 dB 10 dB/div Ref 30.00 dBm	SENSE:INT AL Trig Delay-2.000 ms #Avg Type: Trig: Video	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TPPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune Center Freq	
Keysight Spectrum Analyzer - Skept SA 20 RL 5€ 150 Ω AC Center Freq 2.441000000 GHz PN0: Fast →- IF Gain.Low Ref Offset 9.96 dB 10 dB/div Ref 30.00 dBm 200 200 200 201	SENSE:INT AL Trig Delay-2.000 ms #Avg Type: Trig: Video	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TPPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune	
Kingsteining See 500	SENSE:INT AL Trig Delay-2.000 ms #Avg Type: Trig: Video	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TPPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune Center Freq	
Kepright Spectrum Analyzer - Skept SA Center Freq 2.441000000 GHz PNO: Fast →- IF Gain.Low Ref Offset 9.96 dB 10 dB/div Ref 30.00 dBm 200 2Δ1 10 dB/div Ref 31.000 dBm 200 2Δ1 10 dB/div Ref 31.000 dBm	SENSE:INT AL Trig Delay-2.000 ms #Avg Type: Trig: Video	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TPPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz	
Keysight Spectrum Analyzer - Swept SA RL SP 50.0 SC Center Freq 2.441000000 GHz PRO: Fast →= If Galant.ov ID dB/div Ref Offset 3 96 dB Control of Section 2 (Fast - Section 2	SENSE:INT AL Trig Delay-2.000 ms #Avg Type: Trig: Video	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TPPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq	
Kingeight Spectrum Analyser- Sweet SA Sec Science Sectors Center Freq 2.441000000 GHz FNO: Fast →→→ If GalineLow Ref Offset 9 S6 dB Cog	spectant Avg Type: Trig:Video Trig:Video #Atten: 40 dB	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TPPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step	
Registal Spectrum Analyzer - Sweet SA. 2 81 80 80 AC Center Freq 2.441000000 GHz. ENO. Fast Fast Fast 10 dB/div Ref Offset 396 dB B 20 201 0 0 201 10 10 10 10 10 0 00 0 1 10 10 10 1	spectant Avg Type: Trig:Video Trig:Video #Atten: 40 dB	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TPPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz	
Kingeight Spectrum Analyser- Sweet SA Sec Science Sectors Center Freq 2.441000000 GHz FNO: Fast →→→ If GalineLow Ref Offset 9 S6 dB Cog	spectant Avg Type: Trig:Video Trig:Video #Atten: 40 dB	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TPPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune Center Freq 2.441000000 GHz 3.441000000 GHz 2.441000000 GHz 2.441000000 GHz 1.000000 MHz 1.000000 MHz Auto Man Freq Offset	
Repetite Spectrum Analyzer - Sweet SA. AL Sp = So = AC Center Freq 2.441000000 GHz FNO: Fast *** ID dB/div Ref Offset 9.96 dB 20 2Δ1 20	spectant Avg Type: Trig:Video Trig:Video #Atten: 40 dB	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TPPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz	
Repetite Spectrum Analyser - Sweet SA. AL Sp = So = Ac Center Freq 2.441000000 GHz FWO Fost *** ID dB/div Ref Offset 9.96 dB Q0 Q2Δ1 Q0 Q2Δ1 Q0 Q1 Q0 Q1 Q0 Q2Δ1 Q0 Q1 Q0 Q1 Q0 Q1 Q0 Q1 Q0 Q1 Q2Δ1 Q0 Q1 Q1 Q2Δ1 Q0 Q1 Q1 Q2Δ1 Q0 Q1 Q1 Q2Δ1 Q2Δ1 Q0 Q1 Q1 Q1 Q2Δ1 Q0 Q1 Q1 Q2 Q1 Q2 Q0 Q1 Q1 Q2 Q1 Q2 Q2 Q0 Q1 Q2 Q2 Q3 Q4 Q4 <th< td=""><td>Trig Delay-2000 ms #Avg Type: Trig: Video #Atten: 40 dB</td><td>100 мито 121234 РИВне 02 2024 RMS Тоне 22 2024 САМКи2 390.0 ЦВ 12.000 ЦВ 12.0000 ЦВ 12.00000 ЦВ 12.0000 ЦВ 12.00000 ЦВ 12.0000 ЦВ 12.00000 ЦВ 12.000000000000000000000000000000000000</td><td>Frequency Auto Tune Center Freq 2.441000000 GHz 3.441000000 GHz 2.441000000 GHz 2.441000000 GHz 1.000000 MHz Auto Man Freq Offset 0 Hz Scale Type</td><td></td></th<>	Trig Delay-2000 ms #Avg Type: Trig: Video #Atten: 40 dB	100 мито 121234 РИВне 02 2024 RMS Тоне 22 2024 САМКи2 390.0 ЦВ 12.000 ЦВ 12.0000 ЦВ 12.00000 ЦВ 12.0000 ЦВ 12.00000 ЦВ 12.0000 ЦВ 12.00000 ЦВ 12.000000000000000000000000000000000000	Frequency Auto Tune Center Freq 2.441000000 GHz 3.441000000 GHz 2.441000000 GHz 2.441000000 GHz 1.000000 MHz Auto Man Freq Offset 0 Hz Scale Type	
Konsist Spectrum Andyor- Seet SA RL SP 500 AC Center Freq 2.441000000 GHz PR0: Fast → FG ID dB/dtv Ref Offset 9 S6 dB Control of Section AC PR0: Fast → 10 dB/dtv Ref Offset 9 S6 dB Control of Section AC PR0: Fast → FG 200	Trig Delay-2000 ms #Avg Type: Trig: Video #Atten: 40 dB	LIGN AUTO 12:12:34 PM Dec 02, 2024 RMS TRACE 02:34 56 TYPE WWWWWW DET P P P P P AMkr2 390.0 µs	Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Auto Man Freq Offset 0 Hz	



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Center Freq 2.41000000 GHz Billion Ref Source Center Freq 2.41000000 GHz Center Freq 2.4100000 GHz Center Freq 2.41000000 GHz Center Freq 2.40000 GHz Center Freq 2.4100000 G		SENSE:INT	ALIGN AUTO 12:13:04 PM Dec 02. 2024		
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Ref 0.00 dBm Ref 0.00 dBm 2.4100000 dHz 2.4100000 dHz 3.4100000 dHz 3.410000	IFGai	in:Low #Atten: 40 dB	AMkr2 1 642 mg	Auto Tune	
Center Freq 24100000 0Hz Start Freq 24100000 0Hz	Ref Offset 9.96 dB 10 dB/div Ref 30.00 dBm		-1.98 dE		
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StartFree Stop Free Stop Free	10.0 1 2/	Δ1	TRIG LVI		
Stop Freq 24100000 GHz CF Step 100000 Hz CF Step 100000 Hz Scale Type Center 2.41000000 GHz #VBW 3.0 MHz Sweep 10.13 ms (2000 pts) Center 7.410000000 GHz #VBW 3.0 MHz Sweep 10.13 ms (2000 pts) Center Freq 2.41000000 GHz Register Semantian Step 1 Type: MS Center Freq 2.4100000 GHz Center Freq 2.4100000 GH					
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Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz #VBW 3.0 MHz BDH5_Ant1_Hop Center Freq 2.441000000 GHz Frequency Ref Offset 9.96 dB Center Freq 2.441000000 GHz Ref offset 9.96 dB Center Freq 2.44100000 GHz Center Freq 2.4					
Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 pts) MO Center 2.441000000 GHz Res BW 1.0 MHz Sweep 10.13 ms (8000 pts) MO Center Freq 2.441000000 GHz Frequency Frequency Center Freq 2.441000000 GHz Frequency Center Freq 2.441000000 GHz Center Freq 2.441000000 GHz Center Freq 2.441000000 GHz Center Freq 2.44100000 GHz Center				0 Hz	
Center 2.441000000 GHz Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 pts) MO Center 2.441000000 GHz Res BW 1.0 MHz Sweep 10.13 ms (8000 pts) MO Center Freq 2.441000000 GHz Frequency Frequency Center Freq 2.441000000 GHz Frequency Center Freq 2.441000000 GHz Center Freq 2.441000000 GHz Center Freq 2.441000000 GHz Center Freq 2.44100000 GHz Center	60.0			Scale Type	
Examples and the second of the					
Examples and the second of the	Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Span 0 Hz Sweep 10.13 ms (8000 pts		
Key sight Spectrum: Available - Serger SA Context Freq 2.441000000 GHz Trig Delays 2000 ms #Autor Marco Iz211/37 /PMR4 02.2824 Frequency Center Freq 2.441000000 GHz Trig Delays 2000 ms #Avg Type: RMS Trig Delays 2000 ms #Autor Tupe Frequency PN07. Fast	ISG		STATUS		
PNC Fast Trg: Video Orter preparation Auto Tune If GainLow Add B Add C Center Freq 2.44100000 GHz 100 1 201 1 1 Start Freq 2.44100000 GHz 100 1 1 1 1 1 1 1	X RL RF 50 Ω AC	SENSE:INT	ALIGN AUTO 12:11:57 PM Dec 02, 2024 #Avg Type: RMS TRACE 112:84 15	Frequency	
Ref Offset 3.96 dB ΔMkr2 2.889 ms Auto Tune 10 dBidly Ref 30.00 dBm 0.68 dB Center Freq 200 1 201 2.441000000 GHz 100 1 1 1 1 100 1 1 1 1 100 1 1 1 1 100 1 1 1 1 100 1 1 1 1 1 100 1 1 1 1 1 1 100 1 <	PNO- IFGai): Fast Trig: Video iin:Low #Atten: 40 dB	TYPE WWWWWW DET P P P P P		
L0g Center Freq 200 1 100 <td>Ref Offset 9.96 dB</td> <td></td> <td>ΔMkr2 2.889 ms</td> <td></td> <td></td>	Ref Offset 9.96 dB		ΔMkr2 2.889 ms		
200 100 100 100 100 100 100 100	10 dB/div Ref 30.00 dBm		U.68 GE		
100 100 100 100 100 100 100 100 100 100	20.0				
100 Start Freq 2.44100000 GHz 100 Stop Freq 2.44100000 GHz	.1	2/1		2.44100000 GH2	
100 Stop Freq 2.44100000 GHz			INGLV	Start Freq	
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000 1000 1000 1000 1000 1000 1000 1000		der konstitutetetetetetetetetetetetetetetetetete		1.000000 MHz	
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Freq Offset		ad damental manifike	1 . Alter her treakle word	Freq Offset	
	50.0				
60.0	(60.0				
Scale Type					
Center 2.441000000 GHz Span 0 Hz Lin	Center 2.441000000 GHz	#\/B\/(30MH>	Span 0 Hz	Log <u>Lin</u>	
Kes BW T,U MHZ #VBW 3,U MHZ Sweep 10,13 ms (8000 pts)	ASS DW TO WITZ	#VOW 5.0 WINZ			
Scale Type Center 2.441000000 GHz Span 0 Hz Log Lin Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 pts) Lin	Center 2.441000000 GHz	#VBW 3.0 MHz		Scale Type	



Keyaght Spectrum Analyzer - Swept SA SENSE:INT ALIGN AUTO 12:14:40 PMDec02, 2 U R.E 50.0 AC SENSE:INT ALIGN AUTO 12:14:40 PMDec02, 2 Center Freq. 2:44100000 GHz Trig Delay-2000 ms #Avg Type: RMS TRACE [] 2:34	24 Frequency
Center Freq 2.441000000 GHz Trig Delay-2.000 ms #Avg Type: RMS TRACE DE 2.84 PNC: Fast →- IFGaintow Freq Delay-2.000 ms #Avg Type: RMS TRACE DE 2.84	P P
Ref Offset 9.96 dB △Mkr2 390.0	S Auto Tune
10 dB/div Ref 30.00 dBm 1.23 C	Center Freq
20.0	2.441000000 GHz
100 2241 180	
	Start Freq 2.441000000 GHz
-10.0	Stop Freq 2.44100000 GHz
1900 <mark>tel militär varia sin kan kan kan kan kan kan kan kan kan ka</mark>	CF Step 1.000000 MHz
	Auto Man
	Freq Offset
	0 Hz
200	Scale Type
Center 2.44 1000000 GHz Span 0 Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 p	z Log <u>Lin</u>
	<u>9/</u>
3DH3_Ant1_Hop	
Keysight Spectrum Analyzer - Swept SA	- 8 - 1
UZ RL RF 50 Ω AC SENSE:UNT ALIGN AUTO 12:15:08 PM Dec 02, 2 Center Freq 2.44100.0000 GHz Trig Delay-2.000 ms #Avg Type: RMS TRACE 12:34	24
PNC: Fast →→ Trig: Video TVPE W IFGain:Low #Atten: 40 dB DET P P P	P P
Ref Offset 3.96 dB ΔMkr2 1.640 m 10 dB/dly Ref 30.00 dBm 0.03 c	S
Log	Center Freq
	2.441000000 GHz
	Start Freq
0.00	2.441000000 GHz
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.and	2.441000000 GHz
	CF Step
1900 teen agent in the second se	1.000000 MHz
It that by the second s	
	Freq Offset 0 Hz
60.0	
	Scale Type
Center 2.441000000 GHz Span 0 Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.13 ms (8000 p	IZ Log <u>Lin</u> S)
MSG	
3DH5_Ant1_Hop	



K 1100 - 1 1 0 101			- 3
Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.441000000	GHz PNO: Fast →→ FGain:Low Trig Video #Atten: 40 dB	ALIGN AUTO 12:14:12 PM Dec 02, 2024 Type: RMS TRACE 12:34:5 6 TYPE TYPE DET P P P P P	_
Ref Offset 9.96 dB 10 dB/div Ref 30.00 dBm Log		ΔMkr2 2.892 ms 19.65 dB	Auto Tune
20.0	. 261		Center Freq 2.441000000 GHz
	<u>2Δ1</u>		Start Freq 2.441000000 GHz
-10.0			Stop Freq 2.441000000 GHz
-30.0 phone and a second s	enter operation of the second	nen film film fan de minstering film film Neter	CF Step 1.000000 MHz <u>Auto</u> Man
	ak determine	a a far a	Freq Offset 0 Hz
-60.0			Scale Type
Center 2.441000000 GHz Res BW 1.0 MHz	#VBW 3.0 MHz	Span 0 Hz Sweep 10.13 ms (8000 pts)	Log <u>Lin</u>
MSG		I ostatus	



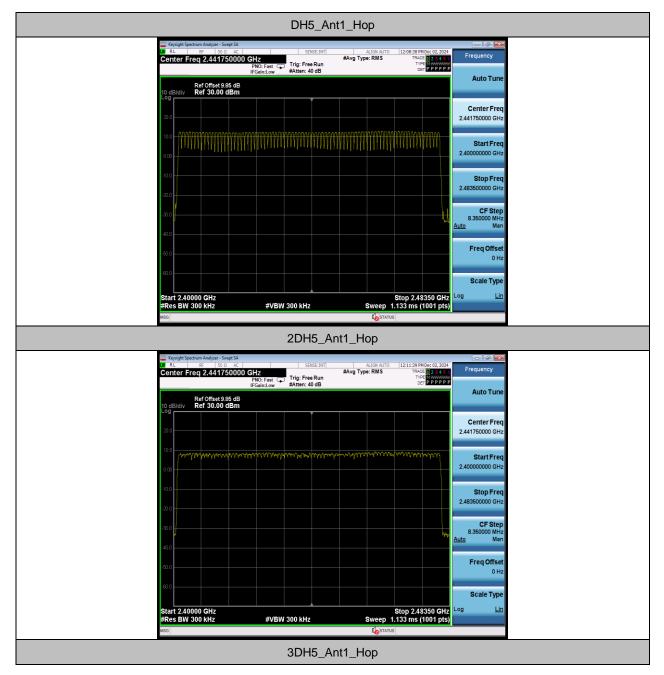
NUMBER OF HOPPING CHANNELS

TEST RESULT

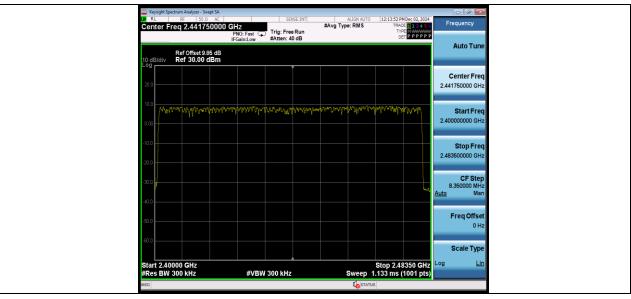
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Нор	79	≥15	PASS
2DH5	Ant1	Нор	79	≥15	PASS
3DH5	Ant1	Нор	79	≥15	PASS



TEST GRAPHS









BAND EDGE MEASUREMENTS

TEST RESULT

TeetMede	TestMode Antenna	Chlama		RefLevel	Result	Limit) (andiat
restiviode	Antenna	ChName	Frequency[MHz]	[dBm]	[dBm]	[dBm]	Verdict
		Low	2402	12.52	-25.92	≤-7.48	PASS
DH5	Ant1	High	2480	12.47	-33.95	≤-7.53	PASS
DHD	Anti	Low	Hop_2402	12.06	-31.02	≤-7.94	PASS
		High	Hop_2480	12.31	-33.28	≤-7.69	PASS
		Low	2402	8.61	-29.53	≤-11.39	PASS
2DH5	Ant1	High	2480	8.55	-39.04	≤-11.45	PASS
2003	Anti	Low	Hop_2402	5.86	-32.45	≤-14.14	PASS
		High	Hop_2480	8.42	-36.38	≤-11.58	PASS
		Low	2402	7.71	-29.35	≤-12.29	PASS
	A at1	High	2480	8.41	-35.03	≤-11.59	PASS
3DH5	Ant1	Low	Hop_2402	5.25	-32.59	≤-14.75	PASS
		High	Hop_2480	7.63	-40.6	≤-12.37	PASS



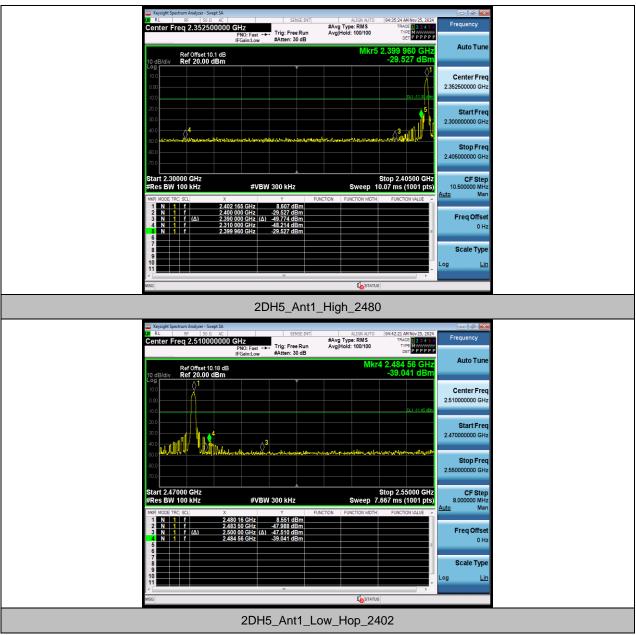
TEST GRAPHS





Keysight Spectrum Analyzer - Swept SA	SENSE:INT	ALIGN AUTO 10:05:58 AM Nov 25,	2024
Center Freq 2.35250000) GHz	#Avg Type: RMS TRACE 12.3 Avg Hold:>100/100 TYPE MUNICIPAL OF P.P.	Frequency
	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB		Auto Tuno
Ref Offset 9.85 dB 10 dB/div Ref 20.00 dBm		Mkr5 2.399 750 G -31.022 dE	174
Log			0
10.0			Center Freq 2.352500000 GHz
-10.0			
-20.0			Start Freq
-30.0		.3	2.30000000 GHz
-40.0	and a standard a standard a standard	Lauren agina and marked	
-60.0			Stop Freq
-70.0			2.405000000 GHz
Start 2.30000 GHz		Stop 2,40500 C	Hz CF Step
#Res BW 100 kHz	#VBW 300 kHz	Stop 2.40500 C Sweep 10.07 ms (1001 p	ots) 10.500000 MHz Auto Man
MKR MODE TRC SCL X	12 057 dBm	NCTION FUNCTION WIDTH FUNCTION VALUE	Auto Man
I I f 2.40 2 N 1 f 2.44 3 N 1 f 2.43	00 000 GHz -36.395 dBm 90 000 GHz (Δ) -44.789 dBm 10 000 GHz (Δ) -44.789 dBm 10 000 GHz -46.590 dBm		Freq Offset
3 N 1 f (Δ) 2.33 4 N 1 f 2.33 5 N 1 f 2.33	10 000 GHz -46.590 dBm 99 750 GHz -31.022 dBm		0 Hz
8 9			Scale Type
11			- Log <u>Lin</u>
MSG		I o STATUS	
	DH5_Ant1_Hiç	gh_Hop_2480	
Legisight Spectrum Analyzer - Swept SA Un RL RF 50 Ω AC	SENSE:INT	ALIGN AUTO 10:06:16 AM Nov 25,	2024 Frequency
Center Freq 2.51000000	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	ALIGN AUTO 10:06:16 AN NOV 25, #Avg Type: RMS TRACE 2 3 Avg[Hold: 100/100 TYPE TYPE Det P P P	4 5 6 P P P
D-60ff-1404040		Mkr4 2.483 68 G	Auto Tune
Ref Offset 10.18 dB 10 dB/div Ref 20.00 dBm Log	> 	-33.282 di	Bm
10.0 ###################################			Center Freq
		DL1 -7.60	2.510000000 GHz
-10.0			
-20.0			Start Freq 2.47000000 GHz
	3		2.47000000 GHZ
-50.0	hatter and marked and a second second	an a	Stop Freq
-60.0			2.550000000 GHz
Start 2.47000 GHz #Res BW 100 kHz	#VBW 300 kHz	Stop 2.55000 C Sweep 7.667 ms (1001 p	ots) 8.000000 MHz
MKRI MODEI TRCI SCL X	Y FU	NCTION FUNCTION WIDTH FUNCTION VALUE	Auto Man
I f 2 2 N 1 f 2 3 N 1 f 2 4 N 1 f 2	474 16 GHz 12.313 dBm 483 50 GHz -48.366 dBm 500 00 GHz (Δ) -46.031 dBm 483 68 GHz -33.282 dBm		Eren Offent
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	500 00 GHz (Δ) -46.031 dBm 483 68 GHz -33.282 dBm		Freq Offset 0 Hz
			Scale Type
10			Log <u>Lin</u>
		f manual	•
MSG		STATUS	
	2DH5_Ant1	_Low_2402	







Keysight Spectrum Analyzer - Si RL RF 50 S	Ω AC SENSE:INT	ALIGN AUTO 10:07:07 AM Nov 25, 2024	
Center Freq 2.3525	000000 GHz PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	#Avg Type: RMS TRACE 23456 Avg Hold:>100/100 TYPE DET P P P P P	Frequency
Ref Offset 9		Mkr5 2.399 435 GHz -32.447 dBm	Auto Tune
		<u> </u>	Center Freq 2.35250000 GHz
-10.0		DCT -14,14 GBM	
-30.0			Start Freq 2.30000000 GHz
-50.0	Alertainet, Scholmenteler, and the Scholmenter and the second	and an and a second and a second and a second	Stop Freq
-70.0			2.40500000 GHz
Start 2.30000 GHz #Res BW 100 kHz	#VBW 300 kHz	Stop 2.40500 GHz Sweep 10.07 ms (1001 pts)	CF Step 10.500000 MHz Auto Man
MKR MODE TRC SCL	X Y FU 2.402 795 GHz 5.857 dBm 2.400 000 GHz -39.155 dBm U -39.155 dBm	NCTION FUNCTION WIDTH FUNCTION VALUE	Freq Offset
3 N 1 F (Δ) 4 N 1 F 5 N 1 F	2.402 795 GHz 5.857 dBm 2.400 000 GHz 39.155 dBm 2.390 000 GHz (Δ) 47.239 dBm 2.310 000 GHz (Δ) 47.239 dBm 2.310 000 GHz 47.664 dBm 2.399 435 GHz -32.447 dBm		0 Hz
7			Scale Type
		*	Log <u>Lin</u>
MSG		I ostatus	
	2DH5_Ant1_Hi	gh_Hop_2480	
Keysight Spectrum Analyzer - So CM R.L RF 50 S	Ω AC SENSE:INT	ALIGN AUTO 10:07:29 AM Nov 25, 2024	Frequency
Center Freq 2.5100	PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	#Avg Type: RMS TRACE 2 34 5 6 Avg Hold:>100/100 TVPE M DET P P P P P P	
10 dB/div Ref 20.00	0.18 dB dBm	Mkr4 2.483 76 GHz -36.384 dBm	Auto Tune
10.0 0.00 0.00			Center Freq 2.51000000 GHz
-10.0		Di 111.58.49m	
-30.0			Start Freq 2.470000000 GHz
-500	Helpertresses on the second se	ar an the second s	Stop Freq
-70.0			2.55000000 GHz
Start 2.47000 GHz #Res BW 100 kHz	#VBW 300 kHz	Stop 2.55000 GHz Sweep 7.667 ms (1001 pts)	CF Step 8.000000 MHz Auto Man
MKR MODE THC SCL	X Y FU 2.480 16 GHz 8.421 dBm 2.483 50 GHz 4.7.291 dBm 2.500 00 GHz (Δ) 47.370 dBm 2.483 76 GHz -36.384 dBm	NCTION FUNCTION WIDTH FUNCTION VALUE	Freq Offset
3 Ν 1 f (Δ) 4 Ν 1 f 5 5	2.500 00 GHz (Δ) -47.370 dBm 2.483 76 GHz -36.384 dBm		0 Hz
7 8 9 9			Scale Type
		•	Log <u>Lin</u>
MSG		STATUS	
	3DH5_Ant1_	_Low_2402	



00	Keysight Spectrum Analyzer - Swept SA RL RF 50 Q AC	SENSE:INT	ALIGN AUTO 04:46:03 AM Nov 25, 2024	- 8
Ce	enter Freg 2.352500000 GH	z	#Avg Type: RMS TRACE 2 3 4 5 6 Avg Hold: 100/100 TYPE MU	Frequency
	IFO	NO: Fast Trig: Free Run Gain:Low #Atten: 30 dB		Auto Tune
40	Ref Offset 10.1 dB dB/div Ref 20.00 dBm		Mkr5 2.399 960 GHz -29.354 dBm	Auto Func
Lo	^g		Δ1	
	00		X	Center Freq 2.352500000 GHz
	0.0		DL1 12.05 dBm	2.332300000 3112
-20	0.0		5	Start Freq
-30	0.0			2.30000000 GHz
	1.0 4	i i i de la competition de la	and an and a share a sh	
))) annainnialthfachtar na seileiteil)))			Stop Freq
-70	3.0			2.405000000 GHz
st	art 2.30000 GHz		Stop 2.40500 GHz	CF Step
#F	Res BW 100 kHz	#VBW 300 kHz	Sweep 10.07 ms (1001 pts)	10.500000 MHz
MB	IR MODE TRC SCL X	Y FU	CTION FUNCTION WIDTH FUNCTION VALUE	Auto Man
	1 N 1 f 2.402 060 2 N 1 f 2.400 000 3 N 1 f 2.400 000	0 GHz -29.354 dBm		Freq Offset
	3 N 1 f (Δ) 2.390 000 4 N 1 f 2.310 000 5 N 1 f 2.399 960	0 GHz 7.712 dBm 0 GHz -29.354 dBm 0 GHz (Δ) -49.387 dBm 0 GHz -49.156 dBm 0 GHz -29.354 dBm		0 Hz
	6 2.599 900 7			
	8			Scale Type
10			-	Log <u>Lin</u>
(*)			STATUS	
no.			1 NID3	
		3DH5_Ant1_	_High_2480	
	Keysight Spectrum Analyzer - Swept SA RL RF 50 Ω AC	SENSE:INT	ALIGN AUTO 09:54:29 AM Nov 25, 2024	
Ce	enter Freq 2.510000000 GH	IO: Fast Trig: Free Run	#Avg Type: RMS TRACE 2 3 4 5 6 Avg Hold: 100/100 TYPE MU	Frequency
	IFO	Gain:Low #Atten: 30 dB	Mkr4 2.483 52 GHz	Auto Tune
10	Ref Offset 10.18 dB		-35.031 dBm	
	pg 01			Center Freq
0.	00			2.51000000 GHz
-10	0.0		Di 1 - 11 58 dBm	
	0.0			Start Freq
		3		2.470000000 GHz
		aligned and the state of the st	เฉละสารแนน เป็น เป็น เป็น เป็น เป็น เป็น เป็น เป	
-60	0.0			Stop Freq 2.55000000 GHz
-70	0.0			2.000000000000
St	art 2.47000 GHz		Stop 2.55000 GHz	CF Step
	Res BW 100 kHz	#VBW 300 kHz	Sweep 7.667 ms (1001 pts)	8.000000 MHz Auto Man
MK	R MODE TRC SCL X	6 GHz 8.406 dBm	ACTION FUNCTION WIDTH FUNCTION VALUE	
	N 1 f 2.480 1/ 2 N 1 f 2.483 5/ 3 N 1 f 2.483 5/ 4 N 1 f 2.483 5/	6 GHz 8.406 dBm 0 GHz -35.031 dBm 0 GHz (Δ) -49.008 dBm 2 GHz -35.031 dBm		Freq Offset
	5 2.483 5	2 GHZ -35.031 dBm		0 Hz
				Scale Type
	9			
1				Log <u>Lin</u>
MSC	3		To status	
			W Hop 2402	
		3DH5_Ant1_Lo	Jw_H0p_2402	



Keyzight Spectrum Analyzer - Swept SA				- 6 💌
04 RL RF 50 Ω AC Center Freq 2.352500000 (SENSE:INT PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB	#Avg Type: RMS Avg Hold:>100/100	10:08:24 AM Nov 25, 2024 TRACE 1 2 3 4 5 6 TYPE M DET P P P P P P	Frequency
Ref Offset 9.85 dB 10 dB/div Ref 20.00 dBm	n Gunt OW mittern ee dD	Mkr5 2	.399 435 GHz -32.586 dBm	Auto Tune
10.0 0.00			1	Center Freq 2.352500000 GHz
-10.0			0,1-1475 dBm	Start Freq 2.30000000 GHz
-40.0 -50.0 -50.0	ารและสารที่เป็นเรื่อง เรื่อง เป็นเรื่อง เรื่อง เ	fath and the star of a		Stop Freq
50.0 Start 2.30000 GHz			top 2.40500 GHz	2.40500000 GHz
#Res BW 100 kHz	#VBW 300 kHz	Sweep 10.	07 ms (1001 pts)	10.500000 MHz Auto Man
I N T f 2405 2 N T f 2400 3 N T f 2400 4 N T f 2310 5 N T f 2399	000 GHz 5.376 dBm 000 GHz -36.518 dBm 000 GHz (Δ) -46.971 dBm 000 GHz -47.822 dBm 435 GHz -32.586 dBm			Freq Offset 0 Hz
7 8 9 10				Scale Type
11 · _			*	
	3DH5_Ant1_Hi	gh_Hop_24	80	
Keysight Spectrum Analyzer - Swept SA				- 0 -
<mark>04</mark> RL RF 50.Ω AC Center Freq 2.5100000000	PNO: Fast 😱 Trig: Free Run	ALIGN AUTO #Avg Type: RMS Avg Hold:>100/100	10:08:49 AM Nov 25, 2024 TRACE 1 2 3 4 5 6 TYPE M	Frequency
Ref Offset 10.18 dB 10 dB/div Ref 20.00 dBm	IFGain:Low #Atten: 30 dB	Mkr4	2.485 60 GHz -40.595 dBm	Auto Tune
100 0.00 100 0.00 100				Center Freq 2.510000000 GHz
-10.0			0L1 12:37 dBm	Start Freq 2.47000000 GHz
-00 -500	durf start all and a start and a start and a	the alternative grant from the former and the	alastinia 200 h. Andre Jacober	Stop Freq
-70.0				2.55000000 GHz
Start 2.47000 GHz #Res BW 100 kHz MKR MODE TRC SCL X	#VBW 300 kHz	S Sweep 7.6	top 2.55000 GHz 67 ms (1001 pts) FUNCTION VALUE	CF Step 8.000000 MHz Auto Man
I 1 f 2.47 2 N 1 f 2.48 3 N 1 f 2.50 4 N 1 f 2.48 5 - - - -	4 88 GHz 7.634 dBm 3 50 GHz -44.838 dBm 0 00 GHz (Δ) -47.423 dBm 5 60 GHz -40.595 dBm			Freq Offset 0 Hz
				Scale Type
A MSG	Π	STATUS	*	

BV 7Layers Communications Technology (Shenzhen) Co., Ltd



CONDUCTED SPURIOUS EMISSION

TEST RESULT

TestMode Ant		Frequency[MHz]	FreqRange	RefLevel	Result	Limit	Verdict
	Antenna		[MHz]	[dBm]	[dBm]	[dBm]	
DH5 Ant1		2402	Reference	11.88	11.88		PASS
			30~1000	11.88	-64.74	≤-8.12	PASS
			1000~26500	11.88	-45.58	≤-8.12	PASS
		nt1 2441	Reference	11.23	11.23		PASS
	Ant1		30~1000	11.23	-64.93	≤-8.77	PASS
			1000~26500	11.23	-46.07	≤-8.77	PASS
		2480	Reference	11.90	11.90		PASS
			30~1000	11.90	-64.83	≤-8.1	PASS
			1000~26500	11.90	-45.13	≤-8.1	PASS
2DH5 An		2402	Reference	7.40	7.40		PASS
			30~1000	7.40	-64.48	≤-12.6	PASS
			1000~26500	7.40	-45.95	≤-12.6	PASS
			Reference	7.27	7.27		PASS
	Ant1	2441	30~1000	7.27	-64.17	≤-12.73	PASS
			1000~26500	7.27	-46.05	≤-12.73	PASS
		2480	Reference	8.12	8.12		PASS
			30~1000	8.12	-42.31	≤-11.88	PASS
			1000~26500	8.12	-45.01	≤-11.88	PASS
3DH5		2402	Reference	6.50	6.50		PASS
			30~1000	6.50	-65.09	≤-13.5	PASS
			1000~26500	6.50	-45.63	≤-13.5	PASS
		2441	Reference	8.04	8.04		PASS
	Ant1		30~1000	8.04	-64.84	≤-11.96	PASS
			1000~26500	8.04	-45.91	≤-11.96	PASS
		2480	Reference	7.10	7.10		PASS
			30~1000	7.10	-63.96	≤-12.9	PASS
			1000~26500	7.10	-45.21	≤-12.9	PASS



TEST GRAPHS

