

Test Report No:
2450569R-RFUSV01S-C

TEST REPORT

FCC Rules&Regulations

Product Name	ICL V2
Brand Name	ICE  CONNECT
Model No.	V02RCXITG
FCC ID	2AXBO-V02RCXITG
Applicant's Name / Address	Unabiz Co Ltd Neihu District, 618 Ruiguang Road, 10th floor, Taipei, Taiwan
Manufacturer's Name / Address	Unabiz Co Ltd Neihu District, 618 Ruiguang Road, 10th floor, Taipei, Taiwan
Test Method Requested, Standard	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10-2013
Verdict Summary	IN COMPLIANCE
Documented By	 Amelia Wu
Approved By	 Allen Lin
Date of Receipt	May 23, 2024
Date of Issue	Dec. 09, 2024
Report Version	V1.0

INDEX

	page
Competences and Guarantees.....	4
General Conditions	4
Revision History	5
Summary of Test Result.....	6
Comments and Remarks	6
1. General Information.....	7
1.1. EUT Description	7
1.2. EUT Information	9
1.3. Testing Applied Standards.....	9
1.4. Testing Location Information	10
1.5. Measurement Uncertainty	10
1.6. List of Test Equipment	11
2. Test Configuration of EUT	12
2.1. Test Condition.....	12
2.2. Test Frequency Mode.....	12
2.3. Duty Cycle	13
2.4. The Worst Case Measurement Configuration.....	14
2.5. Tested System Details.....	15
2.6. Configuration of Tested System	15
3. 20dB Bandwidth	16
3.1. Test Setup	16
3.2. Test Limit	16
3.3. Test Procedures	16
3.4. Test Result of 20dB Bandwidth	16
4. Carrier Frequency Separation	17
4.1. Test Setup	17
4.2. Test Limit	17
4.3. Test Procedures	17
4.4. Test Result of Carrier Frequency Separation.....	17
5. Maximum Conducted Output Power	18
5.1. Test Setup	18
5.2. Test Limit	18
5.3. Test Procedures	18
5.4. Test Result of Maximum Conducted Output Power	18
6. Number of Hopping Frequency	19
6.1. Test Setup	19

6.2.	Test Limit	19
6.3.	Test Procedure	19
6.4.	Test Result of Number of Hopping Frequency	19
7.	Dwell Time	20
7.1.	Test Setup	20
7.2.	Test Limit	20
7.3.	Test Procedure	20
7.4.	Test Result of Dwell Time	20
8.	Antenna Port Conducted Emission	21
8.1.	Test Setup	21
8.2.	Test Limit	21
8.3.	Test Procedure	21
8.4.	Test Result of Antenna Port Conducted Emission	21
9.	Transmitter Radiated Spurious Emission	22
9.1.	Test Setup	22
9.2.	Test Limit	23
9.3.	Test Procedure	23
9.4.	Test Result of Transmitter Radiated Spurious Emission	23

Appendix A. Test Result of 20dB Bandwidth

Appendix B. Test Result of Carrier Frequency Separation

Appendix C. Test Result of Maximum Conducted Output Power

Appendix D. Test Result of Number of Hopping Frequency

Appendix E. Test Result of Dwell Time

Appendix F. Test Result of Antenna Port Conducted Emission

Appendix G. Test Result of Transmitter Radiated Spurious Emission

Appendix H. Test Setup Photograph

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Dec. 09, 2024

Summary of Test Result

Report Clause	Test Items	Result (PASS/FAIL)	Remark
-	AC Power Line Conducted Emission	N/A	Note
3	20dB Bandwidth	PASS	-
4	Carrier Frequency Separation	PASS	-
5	Maximum Conducted Output Power	PASS	-
6	Number of Hopping Frequency	PASS	-
7	Dwell Time	PASS	-
8	Antenna Port Conducted Emission	PASS	-
9	Transmitter Radiated Spurious Emission	PASS	-

Note:

The EUT was powered by DC 3.6V (battery). It's not necessary to apply to AC Power Line Conducted Emission test.

Comments and Explanations

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1. General Information

1.1. EUT Description

RC2:

Frequency Range (MHz)	Operating Frequency (MHz)	Channel Bandwidth (kHz)	Data Rate (bit/sec)	Channel No.	Modulation Type
902~928	902.1375~904.6625	200	600 bps	54	DBPSK

RC4:

Frequency Range (MHz)	Operating Frequency (MHz)	Channel Bandwidth (kHz)	Data Rate (bit/sec)	Channel No.	Modulation Type
902~928	920.1375 ~922.6625	200	600 bps	54	DBPSK

Accessories Information					
No.	Equipment Name	Brand Name	Model No.	Rating	Remark
1	Battery (Blue)	Sunmoon	ER14505-2CW-S	DC 3.6V, 5.2Ah, 18.72wh	Non-rechargeable
2	EVE Battery (Black)	EVE	F1080B-LF	DC 3.6V, 5.4Ah	Non-rechargeable (Second Source)
No.	Equipment Name	Brand Name	Model No.	Description	
3	CT Clamp	Thousand Hundred Industrial CO.,LTD.	CT241100ML16	-	
4	Temperature sensor	HUIZHOU JIN YUAN XIANG ELECTRONIC CO., LTD.	JYX-JGX18B20-GK -HT2050-240219C	-	

Antenna Information				
Ant.	Brand Name	Model No.	Type	Gain (dBi)
1	ARISTOTLE	RFA-S89-T355-2.5M-R2	PIFA	2.15

Working Frequency of Each Channel (RC2)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	902.1375	14	902.7875	28	903.4375	42	904.2375
01	902.1625	15	902.8125	29	903.4625	43	904.2625
02	902.1875	16	902.8375	30	903.6375	44	904.2875
03	902.2125	17	902.8625	31	903.6625	45	904.3125
04	902.2375	18	903.0375	32	903.6875	46	904.3375
05	902.2625	19	903.0625	33	903.7125	47	904.3625
06	902.4375	20	903.0875	34	903.7375	48	904.5375
07	902.4625	21	903.1125	35	903.7625	49	904.5625
08	902.4875	22	903.1375	36	903.9375	50	904.5875
09	902.5125	23	903.1625	37	903.9625	51	904.6125
10	902.5375	24	903.3375	38	903.9875	52	904.6375
11	902.5625	25	903.3625	39	904.0125	53	904.6625
12	902.7375	26	903.3875	40	904.0375	--	--
13	902.7625	27	903.4125	41	904.0625	--	--

Working Frequency of Each Channel (RC4)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	920.1375	14	920.7875	28	921.4375	42	922.2375
01	920.1625	15	920.8125	29	921.4625	43	922.2625
02	920.1875	16	920.8375	30	921.6375	44	922.2875
03	920.2125	17	920.8625	31	921.6625	45	922.3125
04	920.2375	18	921.0375	32	921.6875	46	922.3375
05	920.2625	19	921.0625	33	921.7125	47	922.3625
06	920.4375	20	921.0875	34	921.7375	48	922.5375
07	920.4625	21	921.1125	35	921.7625	49	922.5625
08	920.4875	22	921.1375	36	921.9375	50	922.5875
09	920.5125	23	921.1625	37	921.9625	51	922.6125
10	920.5375	24	921.3375	38	921.9875	52	922.6375
11	920.5625	25	921.3625	39	922.0125	53	922.6625
12	920.7375	26	921.3875	40	922.0375	--	--
13	920.7625	27	921.4125	41	922.0625	--	--

1.2. EUT Information

EUT Power Type	From Battery		
EUT Function	☒	Point-to-multipoint	☐ Point-to-point

1.3. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

1.4. Testing Location Information

Testing Location Information		
Test Laboratory : DEKRA Testing and Certification Co., Ltd.		
1 (TAF: 3024)	ADD: No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
2 (TAF: 3024)	ADD: No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. TEL: +886-3-582-8001 FAX: +886-3-582-8958 Test site Designation No. TW3024 with FCC. Conformity Assessment Body Identifier (CABID) TW3024 with ISED.	
Test site number for address 1 includes HC-SR02. Test site number for address 2 includes HC-CB02, HC-CB03, HC-CB04, HC-SR10 and HC-SR12.		

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted Emission	HC-SR12	Max Chang	23 / 62	2024/10/22
Radiated Emission	HC-CB02	Scott Chang	21.1~22.1 / 55~61	2024/10/25~2024/10/26

1.5. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test item	Uncertainty
20dB Bandwidth	± 282.55 Hz
Carrier Frequency Separation	± 282.55 Hz
Maximum Conducted Output Power	± 1.16 dB
Number of Hopping Frequency	N/A
Dwell Time	± 19.555 msec
Antenna Port Conducted Emission	± 2.47 dB
Transmitter Radiated Spurious Emission	± 3.52 dB below 1 GHz ± 3.56 dB above 1 GHz

1.6. List of Test Equipment

HC-SR12

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	0.3-40 GHz	2023/10/25	2024/10/24
Pulse Power Sensor	Anritsu	MA2411B	1531043	0.3-40 GHz	2023/10/25	2024/10/24
Signal & Spectrum Analyzer	R&S	FSV40	101869	10Hz-40GHz	2024/06/20	2025/06/19

HC-CB02

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Cal. Date	Next Cal. Date
Signal and Spectrum Analyzer	R&S	FSVA40	101435	10 Hz-40 GHz	2024/05/17	2025/05/16
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1272	30 MHz-2 GHz	2024/04/29	2025/04/28
Double Ridged Horn Antenna	RF SPIN	DRH18-E	211211A18E N	1G-18GHz	2023/11/09	2024/11/08
Horn Antenna	Schwarzbeck	BBHA 9170	203	18G-40GHz	2024/02/02	2025/02/01
Pre-Amplifier	EMCI	EMC01820I	980365	30M-8 GHz,20 dB	2024/04/02	2025/04/01
Pre-Amplifier	EMEC	EM01G18GA	060741	1G-18 GHz,50 dB	2024/04/23	2025/04/22
Pre-Amplifier	DEKRA	AP-400C	201801231	18G-40 GHz,48 dB	2024/10/15	2025/10/14
EMI Test Receiver	R&S	ESR7	102260	10 Hz-7 GHz	2023/11/27	2024/11/26
Magnetic Loop Antenna	Teseq	HLA 6121	44287	0.01-30 MHz	2024/10/17	2025/10/16
Coaxial Cable	Huber+Suhner	SF104	HC-CB02	30 MHz-18 GHz, 13m	2024/08/13	2025/08/12
Coaxial Cable	Huber+Suhner ,Rosnol	SF102_UP0264	HC-CB02-1	18-40 GHz, 3 m	2024/08/13	2025/08/12
Radiated Software	Audix	e3 V9	HC-CB02_1	N/A	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

2. Test Configuration of EUT

2.1. Test Condition

EUT Operational Condition	
Testing Voltage	DC 3.6V

2.2. Test Frequency Mode

Test Software Version	TeraTerm 4.106
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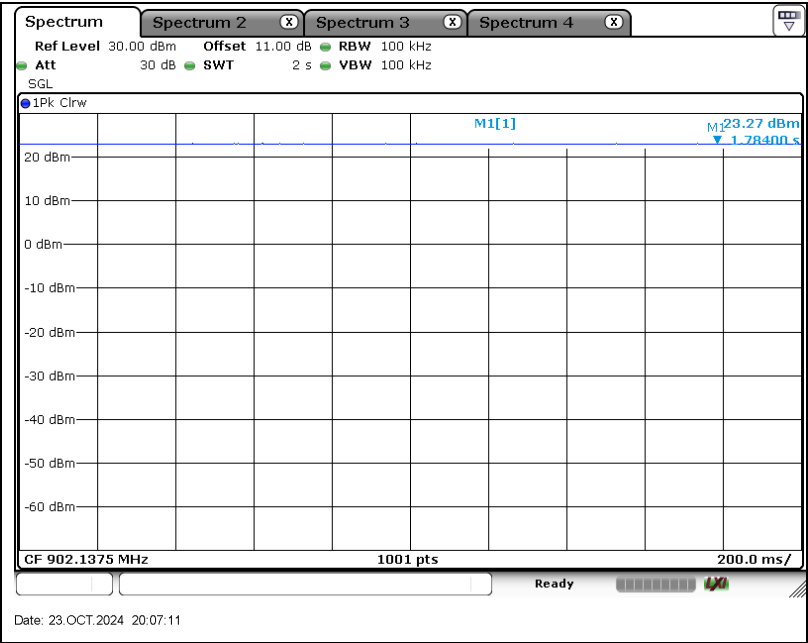
Modulation	Frequency (MHz)	Power Setting
DBPSK (RC2)	902.1375	9
	904.6625	9

Modulation	Frequency (MHz)	Power Setting
DBPSK (RC4)	920.1375	10
	922.6625	10

2.3. Duty Cycle

Modulation	On Times (ms)	On+Off Times (ms)	Duty Cycle (%)	Duty Factor (dB)
DBPSK	25.500	100.000	25.50	-11.87

Note: If the duty cycle correction factor lower than -20dB, the Max. duty cycle correction factor is -20dB.



2.4. The Worst Case Measurement Configuration

Tests Item	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequency Dwell Time Antenna Port Conducted Emission
Test Condition	Conducted measurement at transmit chains

Tests Item	Transmitter Radiated Spurious Emission
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Transmit
Operating Mode > 1GHz	Transmit
The EUT was performed at X axis, Y axis and Z axis position for adiated spurious emission test. The worst case was found at Y axis, so the measurement will follow this same test configuration.	

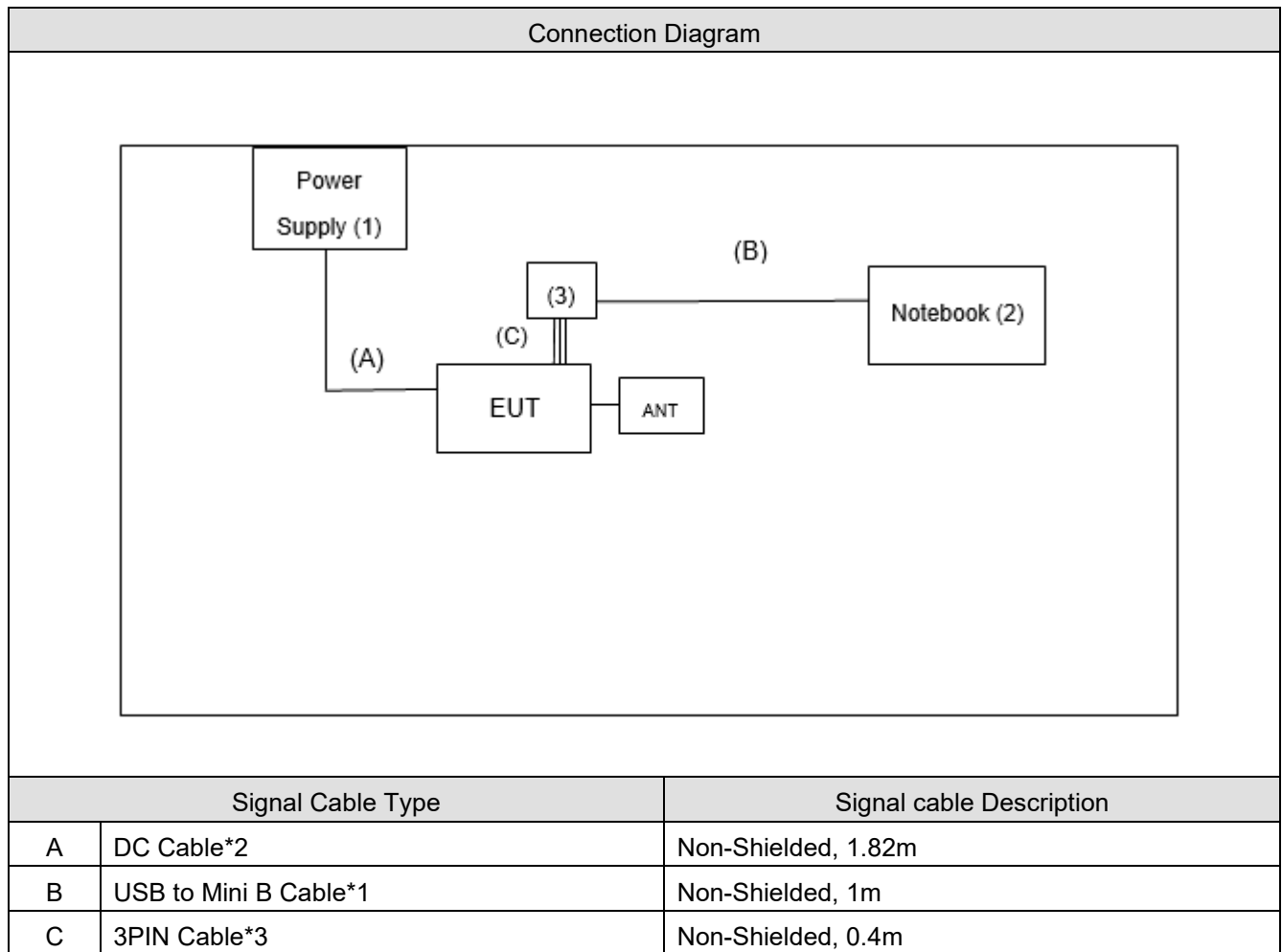
Note:

1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

2.5. Tested System Details

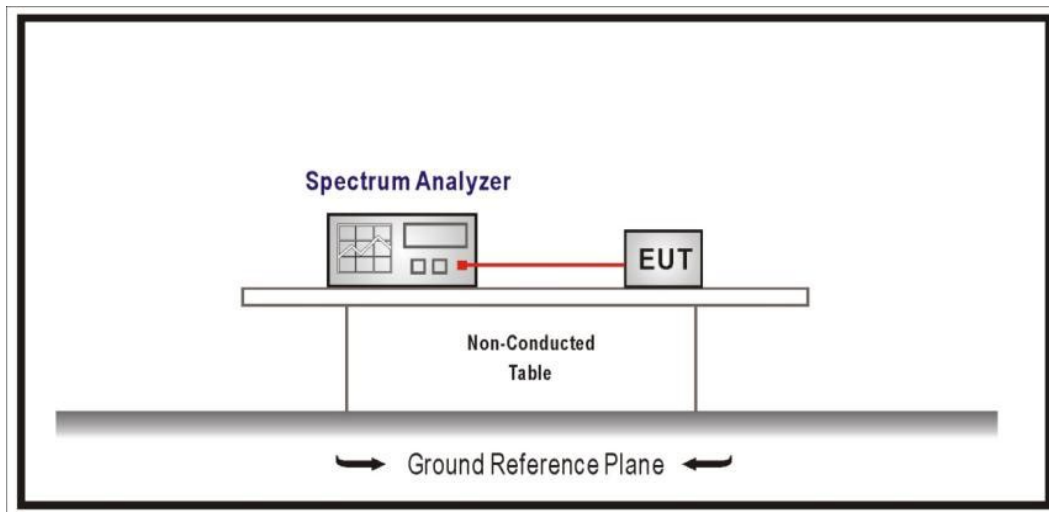
No.	Equipment	Brand Name	Model No.	Serial No.
1	Power Supply	Topward	6303D	809497
2	Notebook	Lenovo	Lenovo Ideapad 110 15IBR	PF01EUZD
3	USB to TTL FT232RL +3PIN Cable	N/A	N/A	N/A

2.6. Configuration of Tested System



3. 20dB Bandwidth

3.1. Test Setup



3.2. Test Limit

N/A

3.3. Test Procedures

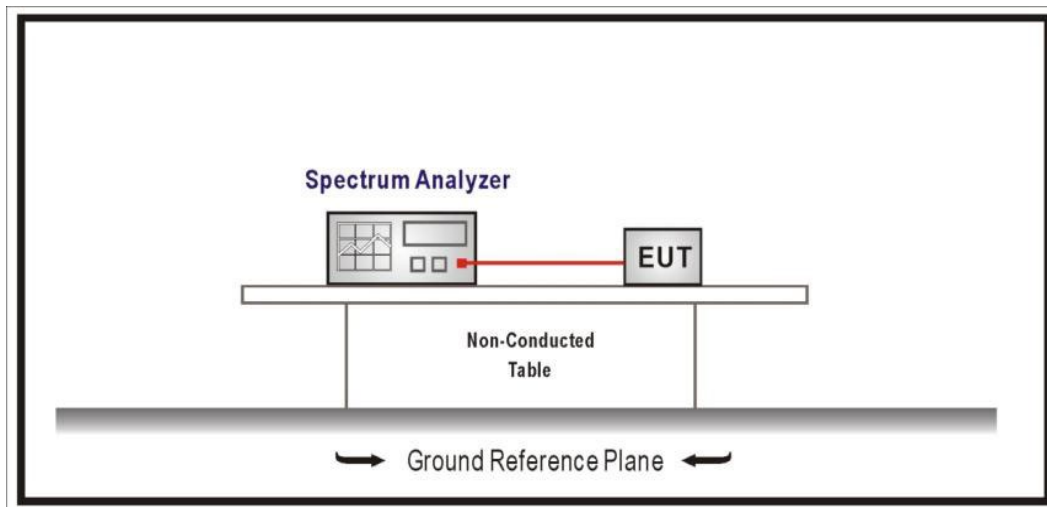
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

3.4. Test Result of 20dB Bandwidth

Refer as Appendix A

4. Carrier Frequency Separation

4.1. Test Setup



4.2. Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400 ~ 2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an Maximum Conducted Output Power no greater than 125 mW. 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.

4.3. Test Procedures

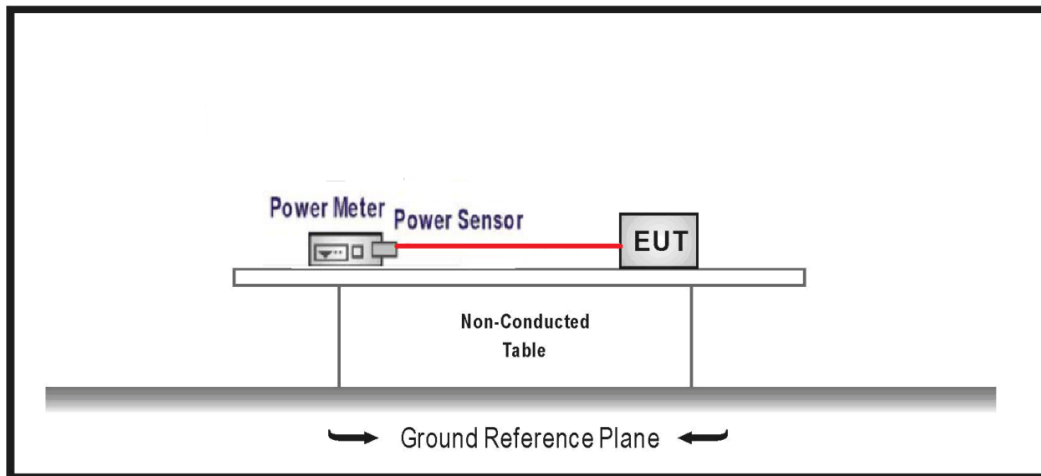
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

4.4. Test Result of Carrier Frequency Separation

Refer as Appendix B

5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Test Limit

For frequency hopping systems operating in the 902 ~ 928 MHz band:

1. Number of Hopping Frequencies ≥ 50 : 1 watt (30dBm)
2. $50 >$ Number of Hopping Frequencies ≥ 25 : 0.25 watt (23.98dBm)

For frequency hopping systems operating in the 2400 ~ 2483.5 MHz band:

1. Number of Hopping Frequencies ≥ 75 : 1 watt (30dBm)
2. $75 >$ Number of Hopping Frequencies ≥ 15 : 0.125 watts (20.97dBm)

For frequency hopping systems operating in the 5725 ~ 5850 MHz band:

Number of Hopping Frequencies ≥ 75 : 1 watt (30dBm)

5.3. Test Procedures

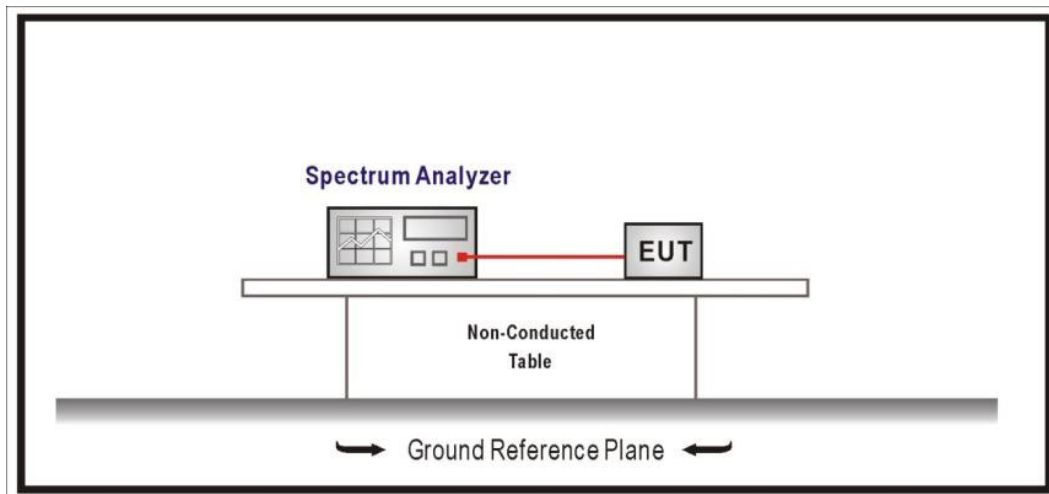
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

5.4. Test Result of Maximum Conducted Output Power

Refer as Appendix C

6. Number of Hopping Frequency

6.1. Test Setup



6.2. Test Limit

For frequency hopping systems operating in the 902 ~ 928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels. 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Frequency hopping systems operating in the 5725 ~ 5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

6.3. Test Procedure

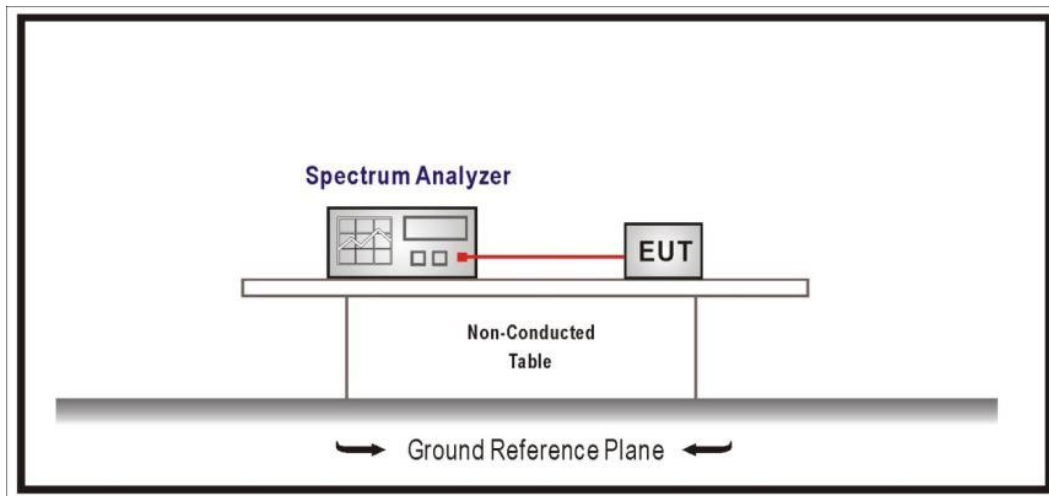
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

6.4. Test Result of Number of Hopping Frequency

Refer as Appendix D

7. Dwell Time

7.1. Test Setup



7.2. Test Limit

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

For frequency hopping systems operating in the 2400-2483.5 MHz bands. 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.

For frequency hopping systems operating in the 5725-5850 MHz bands. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

7.3. Test Procedure

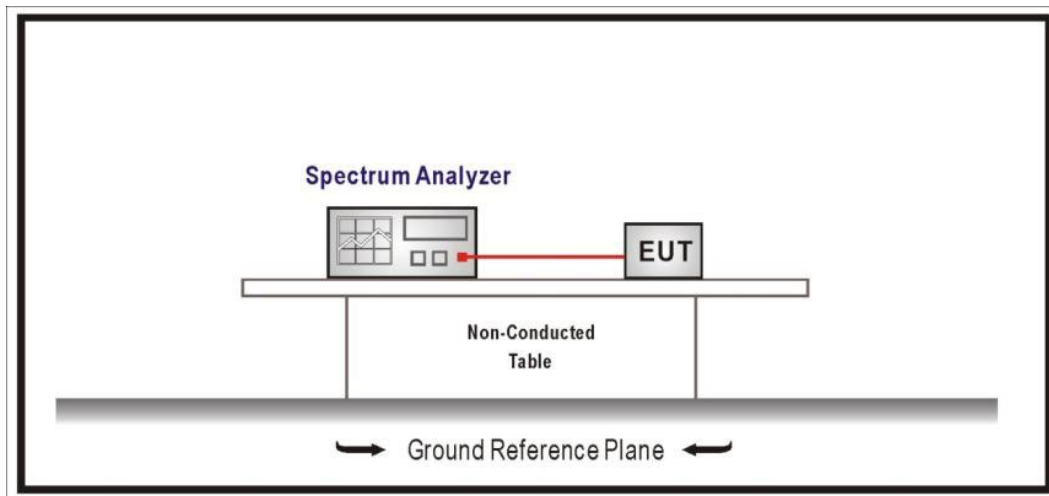
The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

7.4. Test Result of Dwell Time

Refer as Appendix E

8. Antenna Port Conducted Emission

8.1. Test Setup



8.2. Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limit.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

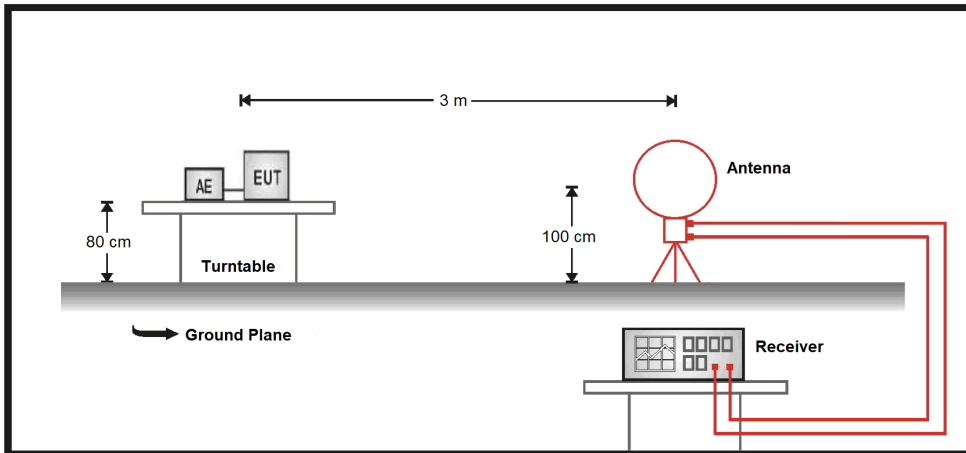
8.4. Test Result of Antenna Port Conducted Emission

Refer as Appendix F

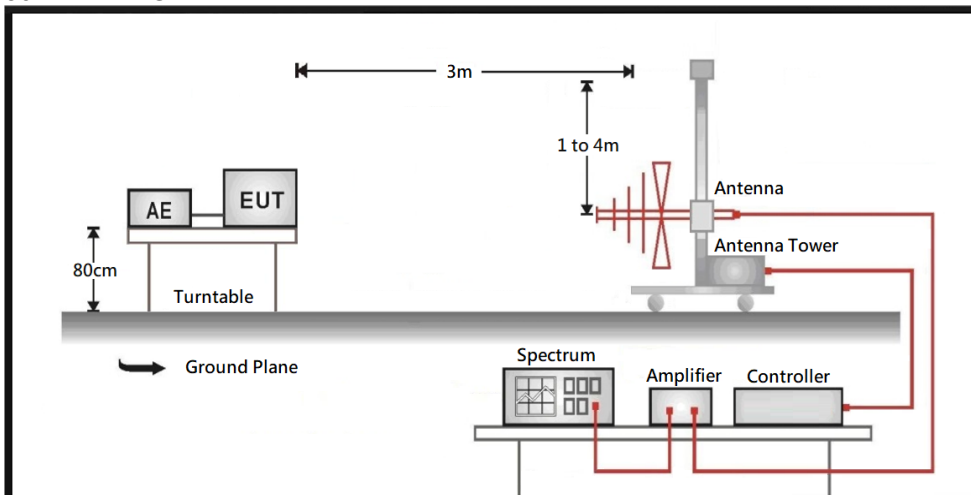
9. Transmitter Radiated Spurious Emission

9.1. Test Setup

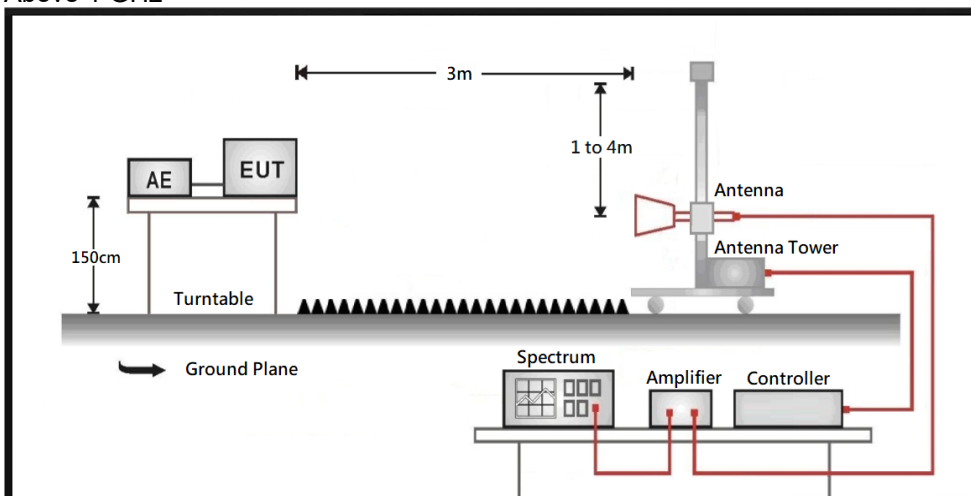
9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



Above 1 GHz



9.2. Test Limit

Frequency (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
0.009 – 0.490	2400/F(kHz)	20 log (2400/F(kHz))	300
0.490 – 1.705	24000/F(kHz)	20 log (24000/F(kHz))	30
1.705 - 30	30	29.5	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

Remarks:

1. Field strength (dBuV/m) = 20 log Field strength (uV/m)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

9.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to FHSS test procedure of KDB 558074.

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

On any frequency or frequencies from 9 kHz(include The the lowest oscillator frequency generated within the device up to the 10th harmonic) to 1000 MHz, the limit shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limit shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1 GHz setting on the field strength meter is 120 kHz and above 1 GHz is 1 MHz.

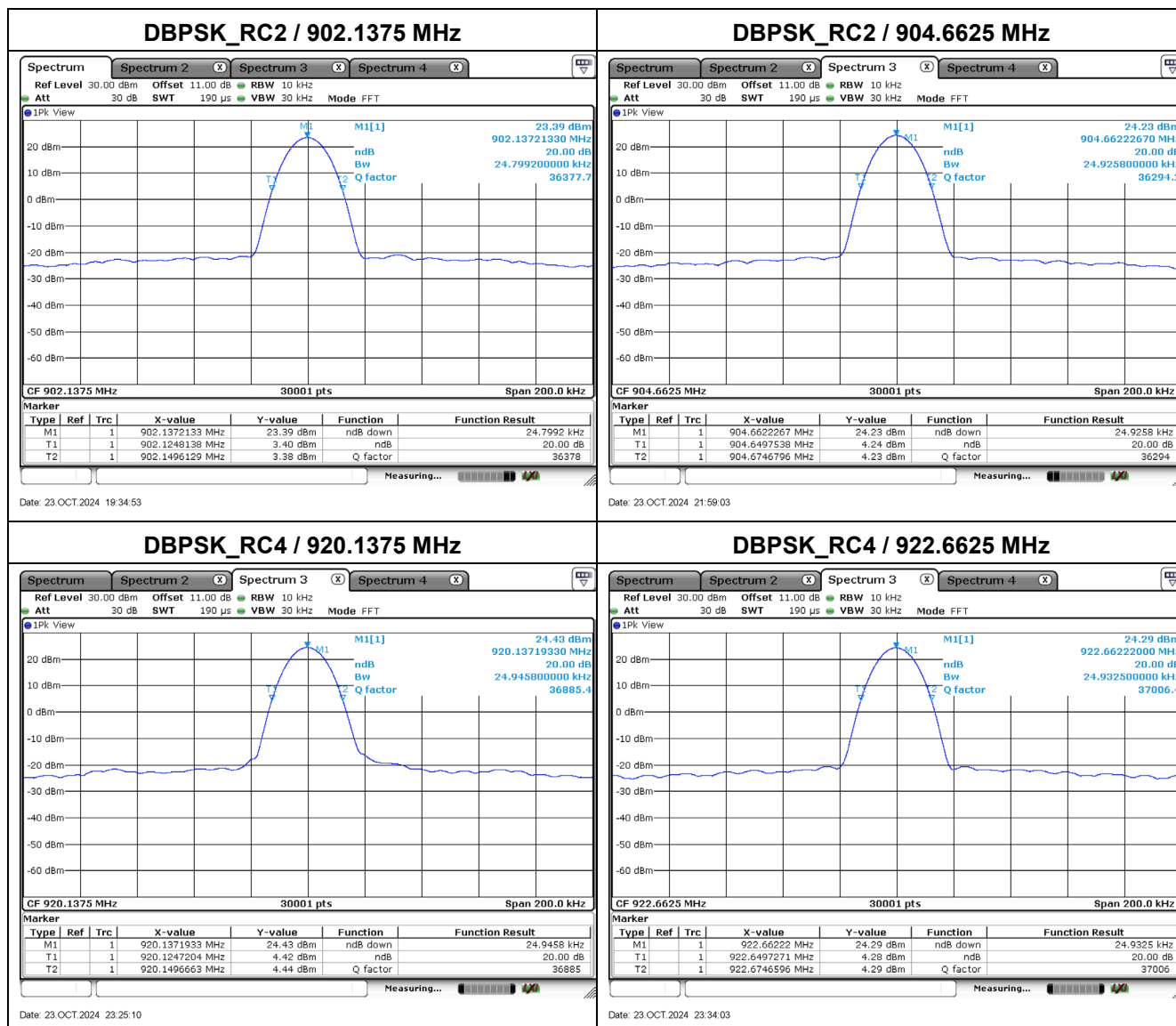
9.4. Test Result of Transmitter Radiated Spurious Emission

Refer as Appendix G

Appendix A. Test Result of 20dB Bandwidth

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
DBPSK_RC2	902.1375	24.799	-
	904.6625	24.925	-

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)
DBPSK_RC4	920.1375	24.945	-
	922.6625	24.932	-

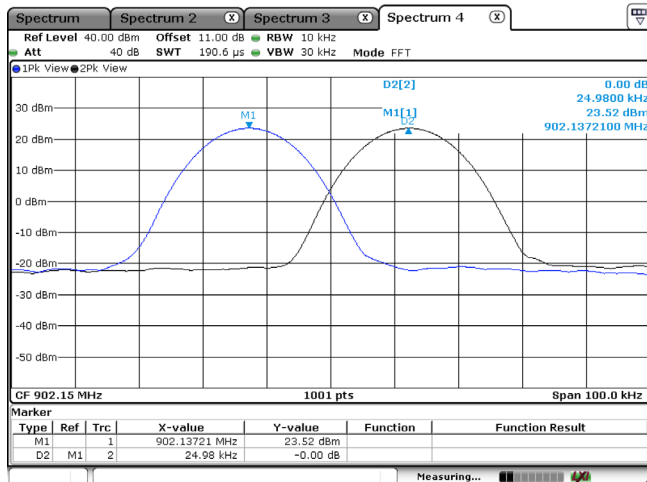


Appendix B. Test Result of Carrier Frequency Separation

Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
DBPSK_RC2	902.1375	24.980	24.799	Pass
	904.6625	24.980	24.925	Pass

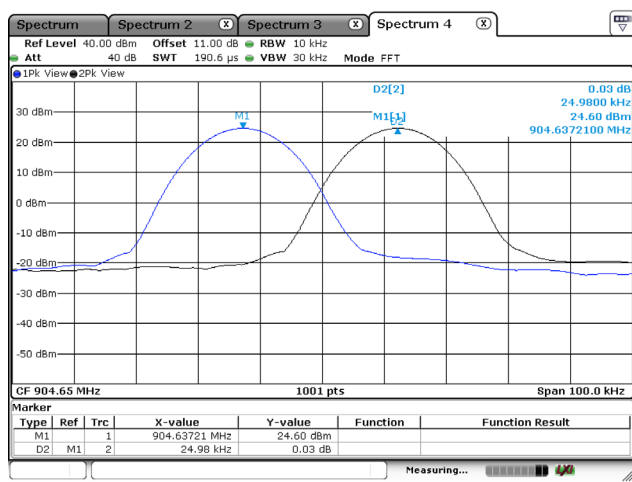
Modulation	Frequency (MHz)	Measure Level (MHz)	Limit (MHz)	Result
DBPSK_RC4	920.1375	24.980	24.945	Pass
	922.6625	24.980	24.932	Pass

DBPSK_RC2 / 902.1375 MHz



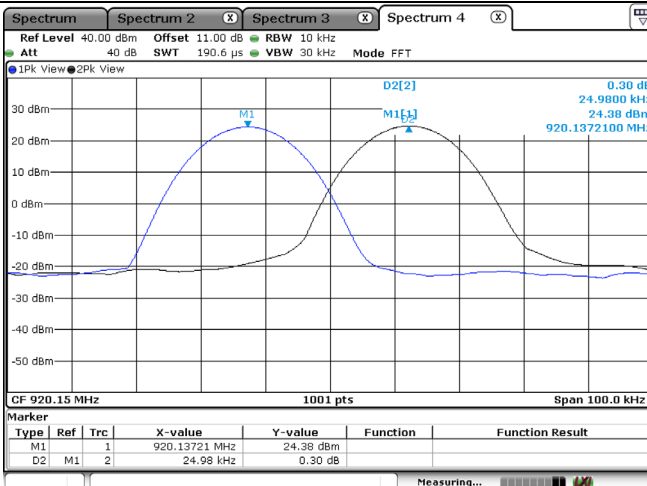
Date: 23.OCT.2024 19:30:09

DBPSK_RC2 / 904.6625 MHz



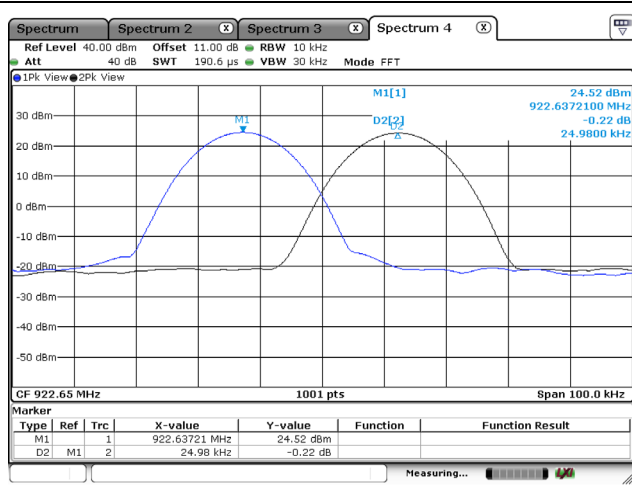
Date: 23.OCT.2024 21:38:04

DBPSK_RC4 / 920.1375 MHz



Date: 23.OCT.2024 23:19:23

DBPSK_RC4 / 922.6625 MHz



Date: 23.OCT.2024 23:37:01

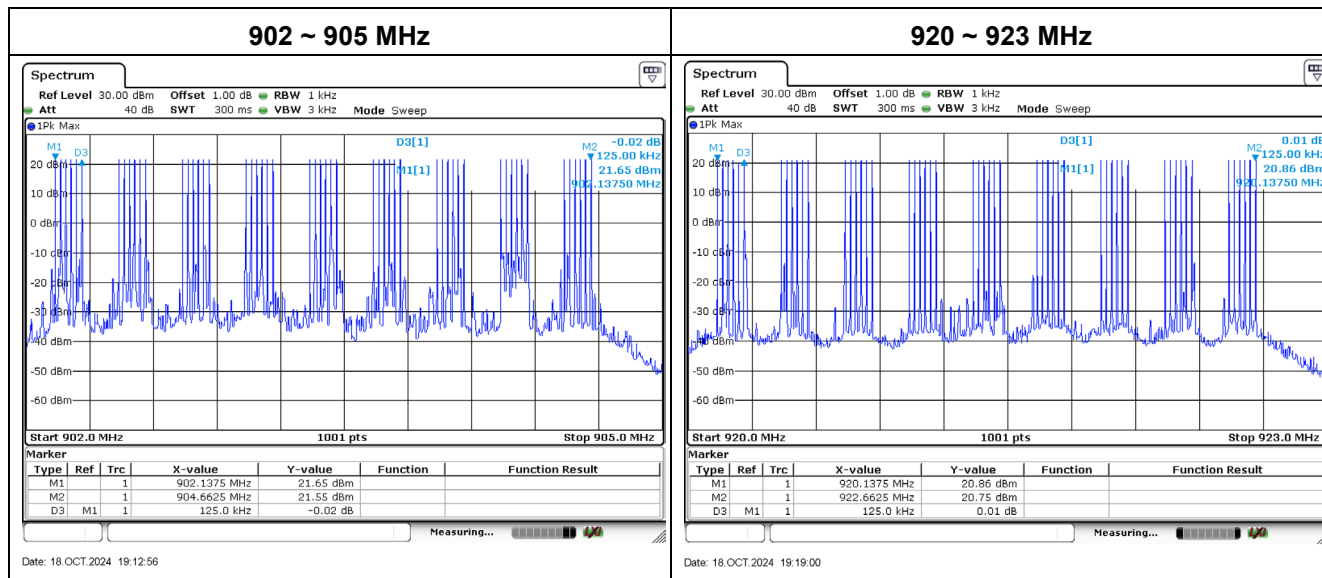
Appendix C. Test Result of Maximum Conducted Output Power

Modulation	Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)	Result
DBPSK_RC2	902.1375	23.68	30.00	Pass
	904.6625	23.76	30.00	Pass

Modulation	Frequency (MHz)	Maximum Conducted Peak Output Power (dBm)	Limit (dBm)	Result
DBPSK_RC4	920.1375	23.75	30.00	Pass
	922.6625	23.66	30.00	Pass

Appendix D. Test Result of Number of Hopping Frequency

Frequency Range (MHz)	Measure Level (Channels)	Limit (Channels)
902 ~ 905	54	≥ 25
920 ~ 923	54	≥ 25

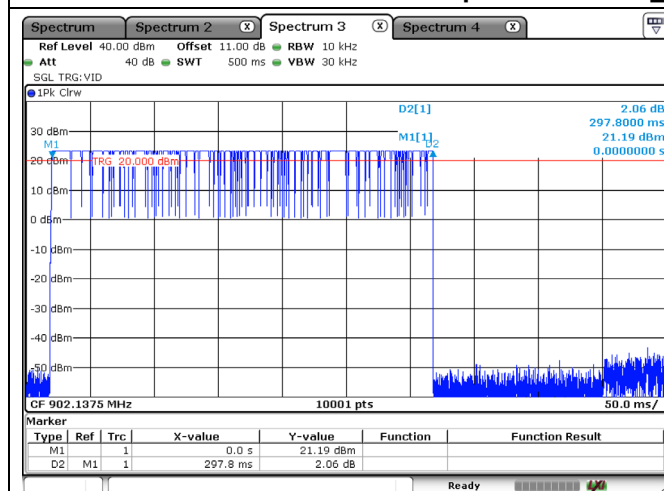


Appendix E. Test Result of Dwell Time

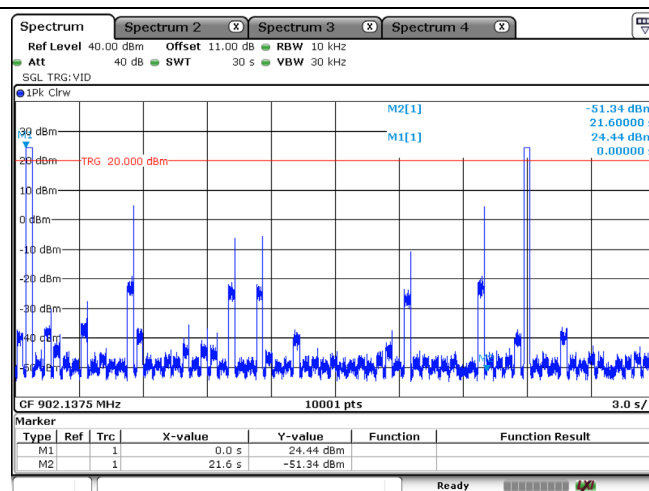
Modulation	Channel (MHz)	On Times (ms)	Hoppint No. of 20	Dwell Time (s)		Result
				Result	Limit	
DBPSK (RC2)	902.1375	297.800	1.000	0.298	0.4	Pass
	904.6625	297.950	1.000	0.298	0.4	Pass

Modulation	Channel (MHz)	On Times (ms)	Hoppint No. of 20	Dwell Time (s)		Result
				Result	Limit	
DBPSK (RC4)	920.1375	297.500	1.000	0.298	0.4	Pass
	922.6625	297.600	1.000	0.298	0.4	Pass

Hop rate / DBPSK_RC2 / 902.1375 MHz

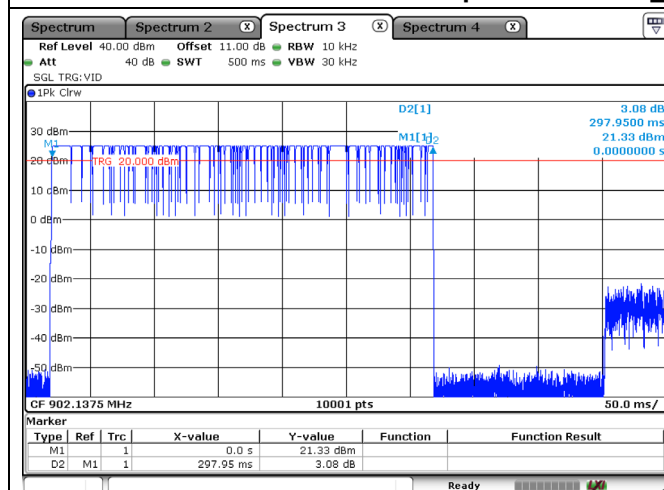


Date: 23.OCT.2024 19:24:01

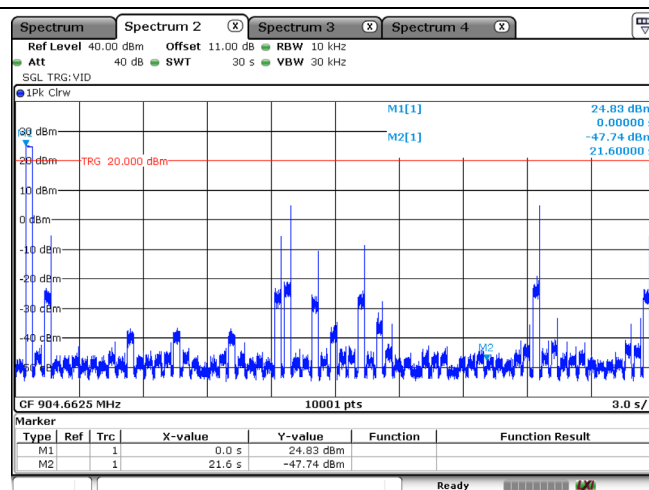


Date: 23.OCT.2024 23:41:08

Hop rate / DBPSK_RC2 / 904.6625 MHz

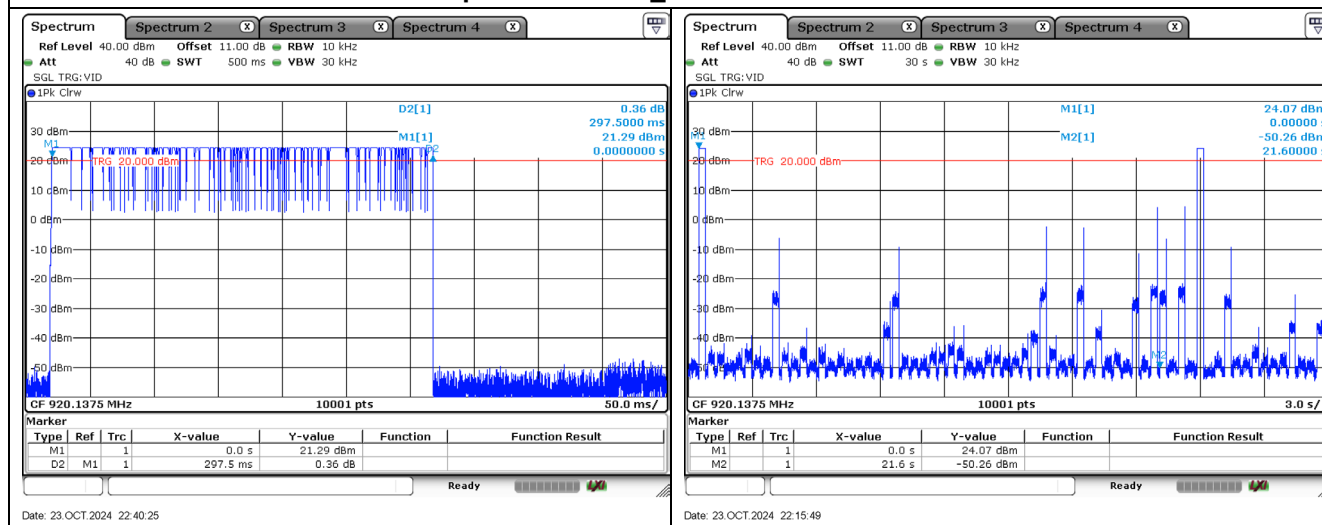


Date: 23.OCT.2024 20:16:51

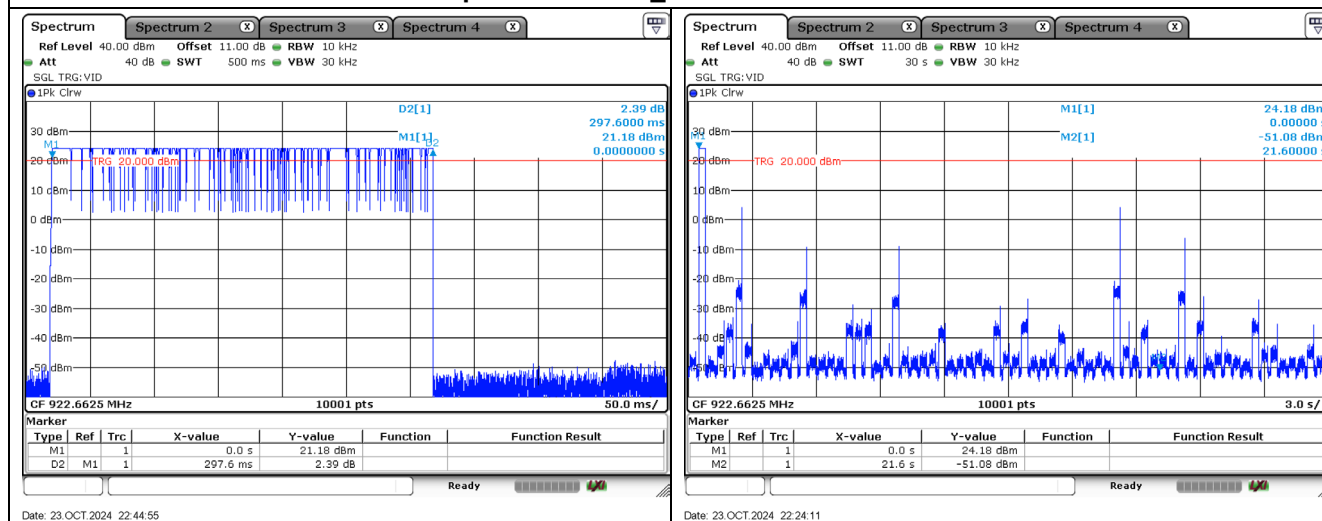


Date: 23.OCT.2024 20:15:50

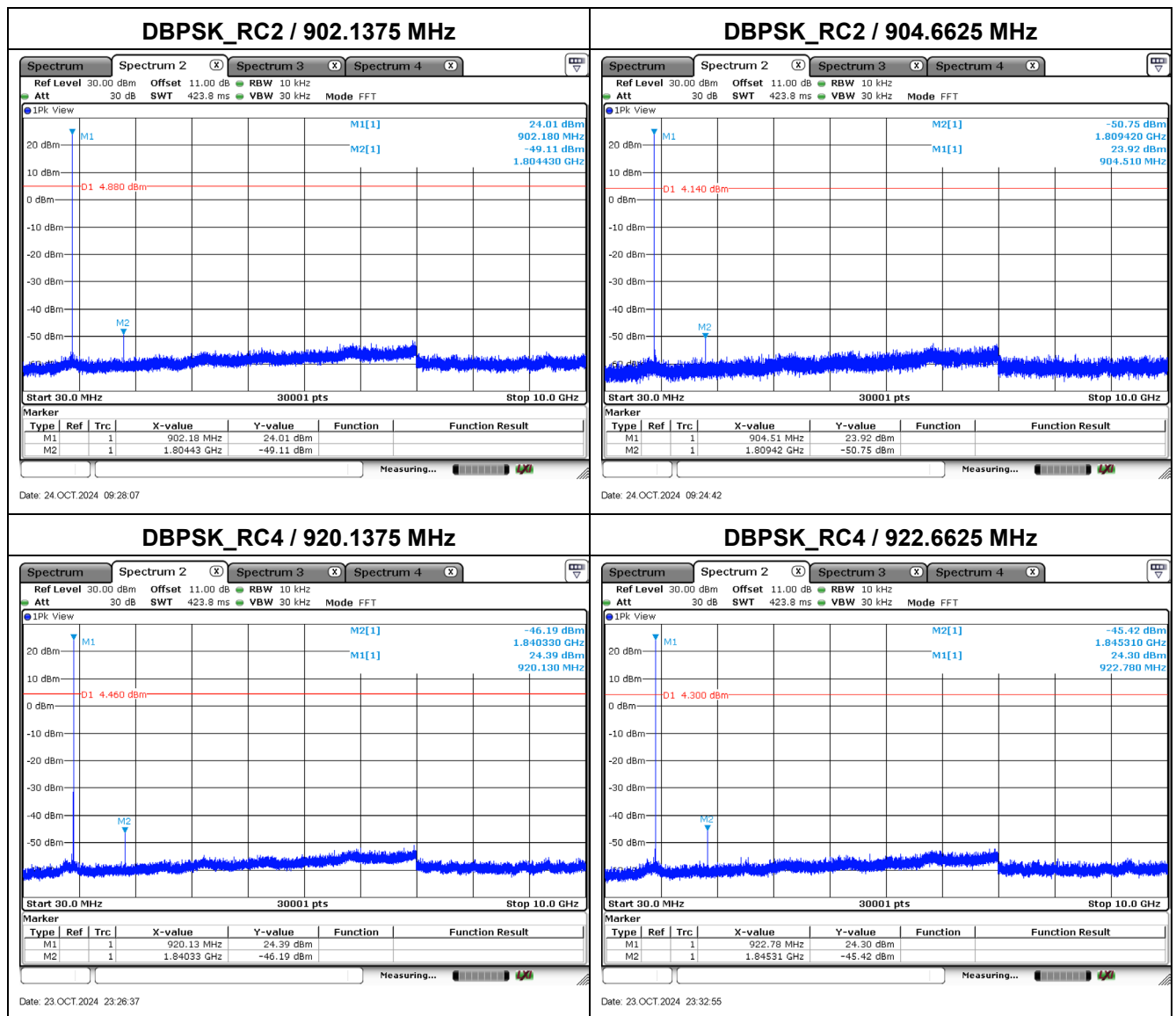
Hop rate / DBPSK_RC4 / 920.1375 MHz

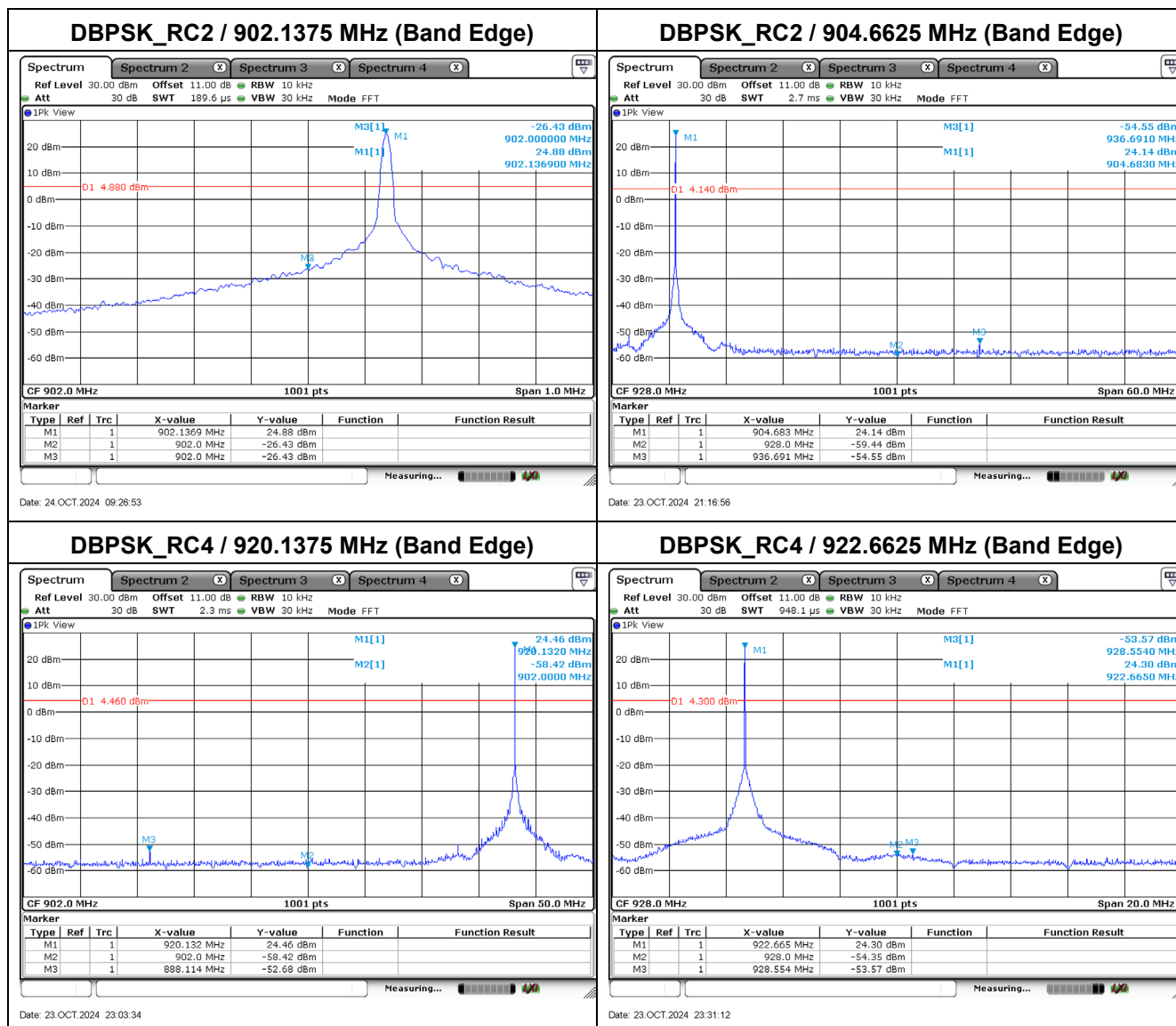


Hop rate / DBPSK_RC4 / 922.6625 MHz

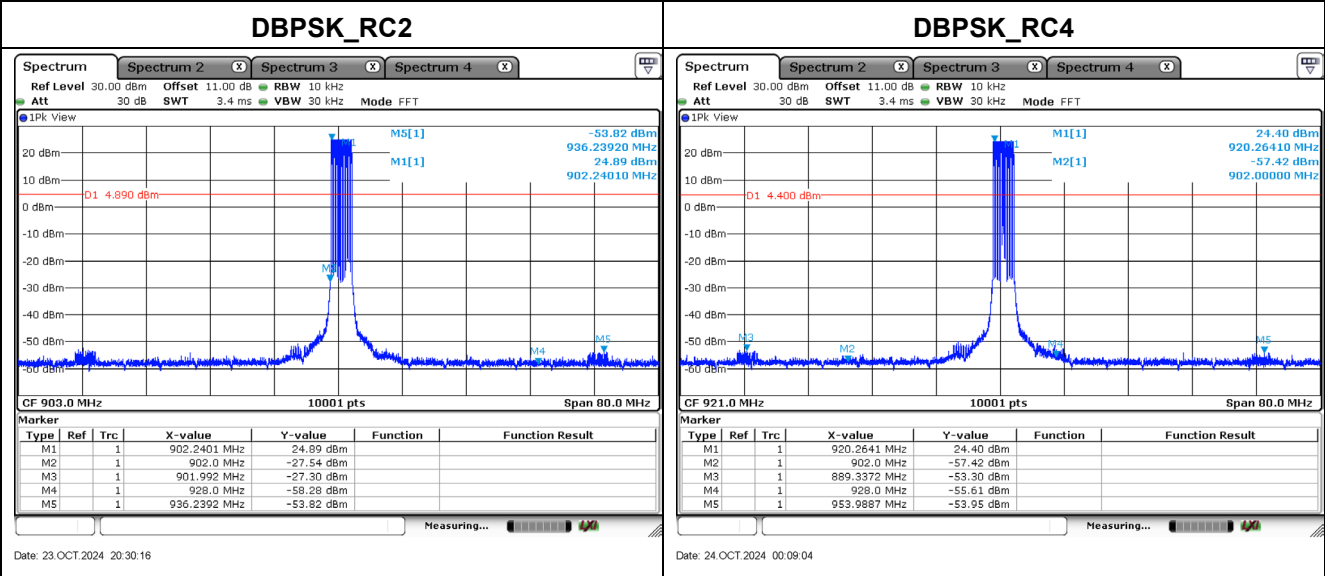


Appendix F. Test Result of Antenna Port Conducted Emission





Hopping Band Edge

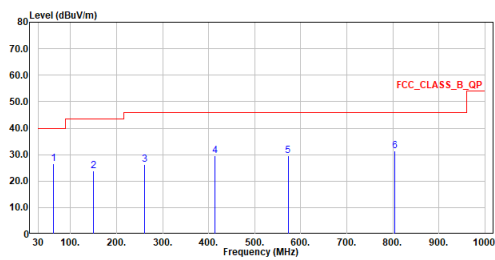


Appendix G. Test Result of Transmitter Radiated Spurious Emission

30 MHz ~ 1 GHz

<DBPSK_RC2>

Site :HC-CB02
Condition :3m Horizontal
Mode :LF_SIGFOX_RC2_TX_904.6625MHz
Test by :Scott Chang

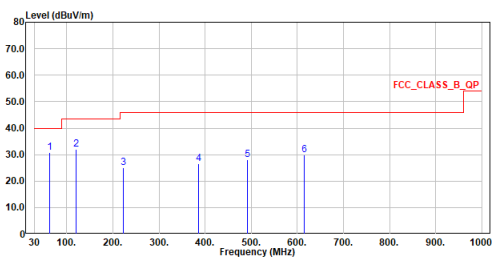


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	62.980	26.67	40.00	-13.33	29.79	-3.12	QP
2	149.989	23.87	43.50	-19.63	26.47	-2.60	QP
3	260.375	26.35	46.00	-19.65	29.63	-3.28	QP
4	412.665	29.71	46.00	-16.29	28.84	0.87	QP
5	572.327	29.69	46.00	-16.31	25.17	4.52	QP
6	803.769	31.49	46.00	-14.51	22.95	8.54	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :LF_SIGFOX_RC2_TX_904.6625MHz
Test by :Scott Chang



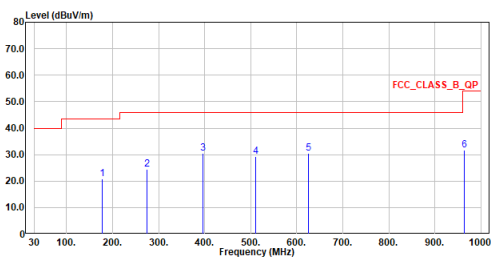
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level	dB	
1	62.980	30.65	40.00	-9.35	33.77	-3.12	QP
2	120.016	31.93	43.50	-11.57	37.10	-5.17	QP
3	222.933	25.07	46.00	-20.93	31.00	-5.93	QP
4	385.311	26.53	46.00	-19.47	26.17	0.36	QP
5	491.235	28.01	46.00	-17.99	25.18	2.83	QP
6	614.910	29.92	46.00	-16.08	24.12	5.80	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

<DBPSK_RC4>

Site :HC-CB02
 Condition :3m Horizontal
 Mode :LF_SIGFOX_RC4_TX_920.1375MHz
 Test by :Scott Chang

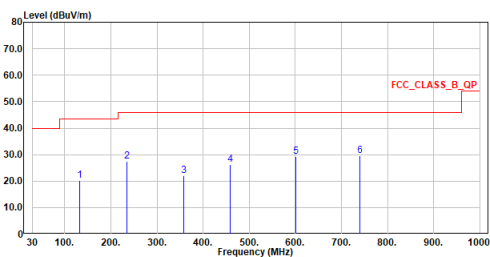


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level		
				dB	dBuV	dB	
1	177.246	20.88	43.50	-22.62	24.59	-3.71	QP
2	274.731	24.37	46.00	-21.63	27.02	-2.65	QP
3	396.272	30.60	46.00	-15.40	30.00	0.60	QP
4	511.023	29.43	46.00	-16.57	26.22	3.21	QP
5	624.804	30.58	46.00	-15.42	24.86	5.72	QP
6	963.916	31.75	54.00	-22.25	21.03	10.72	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
 Condition :3m Vertical
 Mode :LF_SIGFOX_RC4_TX_920.1375MHz
 Test by :Scott Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	Limit	Level		
				dB	dBuV	dB	
1	131.947	20.28	43.50	-23.22	24.61	-4.33	QP
2	233.894	27.50	46.00	-18.50	32.13	-4.63	QP
3	358.151	21.92	46.00	-24.08	22.76	-0.84	QP
4	457.867	26.36	46.00	-19.64	24.09	2.27	QP
5	600.360	29.25	46.00	-16.75	23.88	5.37	QP
6	740.331	29.49	46.00	-16.51	21.67	7.82	QP

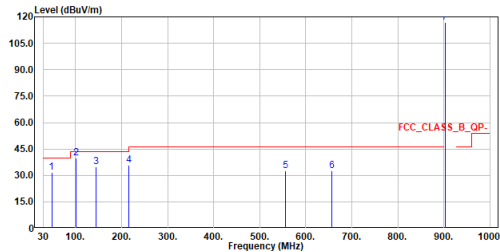
Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Above 1 GHz

<DBPSK_RC2>

Site :HC-CB02
Condition :3m Horizontal
Mode :LF_SIGFOX_RC2_TX_902.1375MHz
Test by :Scott Chang

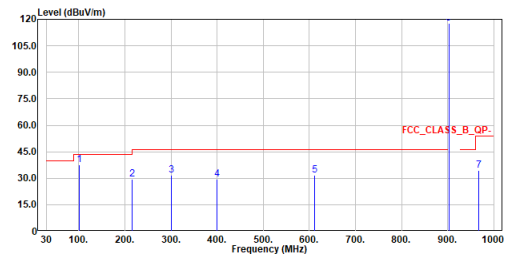


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	47.945	31.68	40.00	-8.32	33.17	-1.49	QP
2	100.907	39.83	43.50	-3.67	46.89	-7.06	QP
3	143.975	34.67	43.50	-8.83	37.48	-2.81	QP
4	215.949	35.58	43.50	-7.92	41.53	-5.95	QP
5	555.837	32.42	46.00	-13.58	28.40	4.02	QP
6	657.105	32.40	46.00	-13.60	26.03	6.37	QP
7	902.224	116.61	-----	-----	106.91	9.70	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :LF_SIGFOX_RC2_TX_902.1375MHz
Test by :Scott Chang

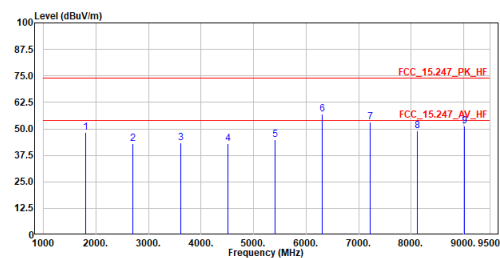


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	100.810	37.80	43.50	-5.70	44.90	-7.10	QP
2	215.949	29.24	43.50	-14.26	35.19	-5.95	QP
3	299.951	31.73	46.00	-14.27	33.79	-2.06	QP
4	398.891	29.22	46.00	-16.78	28.61	0.61	QP
5	611.709	31.53	46.00	-14.47	25.74	5.79	QP
6	902.224	117.72	-----	-----	108.02	9.70	QP
7	967.408	34.37	54.00	-19.63	23.70	10.67	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Horizontal
Mode :SIGFOX_RC2_TX_902.1375MHz
Test by :Scott Chang

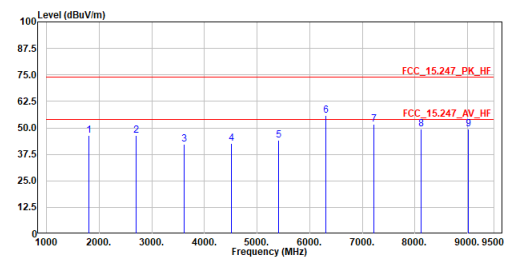


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	1804.275	48.14	74.00	-25.86	73.88	-25.74	Peak
2	2706.413	43.13	74.00	-30.87	65.64	-22.51	Peak
3	3608.550	43.26	74.00	-30.74	62.74	-19.48	Peak
4	4510.688	43.18	74.00	-30.82	59.10	-15.92	Peak
5	5412.825	44.73	74.00	-29.27	58.62	-13.89	Peak
6	6314.962	57.01	74.00	-16.99	67.42	-10.41	Peak
7	7217.100	53.32	74.00	-20.68	61.30	-7.98	Peak
8	8119.237	48.98	74.00	-25.02	56.06	-7.08	Peak
9	9021.375	51.15	74.00	-22.85	56.30	-5.15	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :SIGFOX_RC2_TX_902.1375MHz
Test by :Scott Chang

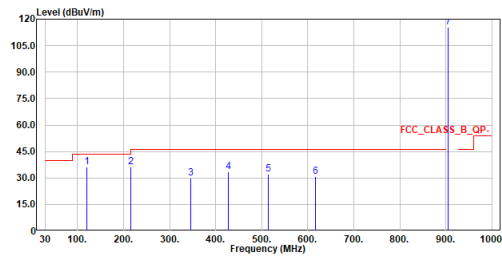


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
			dBuV/m	dB	dBuV	dB	
1	1804.275	46.60	74.00	-27.40	72.34	-25.74	Peak
2	2706.413	46.47	74.00	-27.53	68.98	-22.51	Peak
3	3608.550	42.33	74.00	-31.67	61.81	-19.48	Peak
4	4510.688	42.65	74.00	-31.35	58.57	-15.92	Peak
5	5412.825	44.18	74.00	-29.82	58.07	-13.89	Peak
6	6314.962	55.71	74.00	-18.29	66.12	-10.41	Peak
7	7217.100	51.76	74.00	-22.24	59.74	-7.98	Peak
8	8119.237	49.26	74.00	-24.74	56.34	-7.08	Peak
9	9021.375	49.35	74.00	-24.65	54.50	-5.15	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Horizontal
Mode :LF_SIGFOX_RC2_TX_904.6625MHz
Test by :Scott Chang

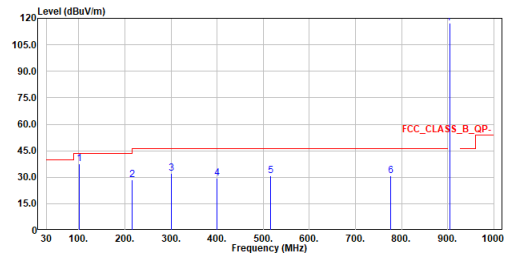


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	120.016	36.09	43.50	-7.41	41.26	-5.17	QP
2	215.949	36.29	43.50	-7.21	42.24	-5.95	QP
3	345.735	30.02	46.00	-15.98	31.01	-0.99	QP
4	426.633	33.49	46.00	-12.51	32.06	1.43	QP
5	514.903	32.11	46.00	-13.89	28.81	3.30	QP
6	615.880	30.58	46.00	-15.42	24.78	5.80	QP
7	904.746	115.45	-----	-----	105.63	9.82	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :LF_SIGFOX_RC2_TX_904.6625MHz
Test by :Scott Chang

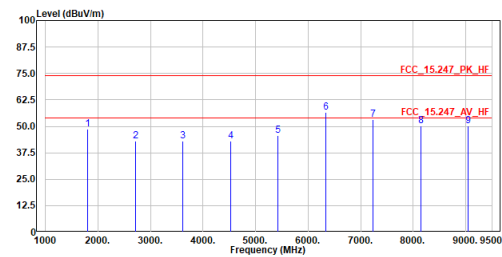


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	100.907	37.74	43.50	-5.76	44.80	-7.06	QP
2	215.949	28.59	43.50	-14.91	34.54	-5.95	QP
3	299.951	32.31	46.00	-13.69	34.37	-2.06	QP
4	399.958	29.37	46.00	-16.63	28.76	0.61	QP
5	515.776	30.69	46.00	-15.31	27.37	3.32	QP
6	776.415	30.62	46.00	-15.38	22.25	8.37	QP
7	904.746	117.33	-----	-----	107.51	9.82	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Horizontal
Mode :SIGFOX_RC2_TX_904.6625MHz
Test by :Scott Chang

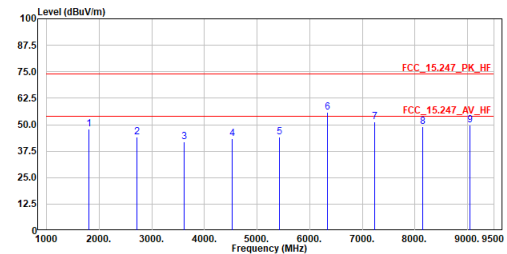


No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1809.325	48.50	74.00	-25.50	74.22	-25.72	Peak
2	2713.988	43.18	74.00	-30.82	65.65	-22.47	Peak
3	3618.650	42.89	74.00	-31.11	62.32	-19.43	Peak
4	4523.313	43.16	74.00	-30.84	59.02	-15.86	Peak
5	5427.975	45.55	74.00	-28.45	59.43	-13.88	Peak
6	6332.638	56.46	74.00	-17.54	66.77	-10.31	Peak
7	7237.300	53.38	74.00	-20.62	61.33	-7.95	Peak
8	8141.962	50.13	74.00	-23.87	57.15	-7.02	Peak
9	9046.625	50.28	74.00	-23.72	55.42	-5.14	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :SIGFOX_RC2_TX_904.6625MHz
Test by :Scott Chang



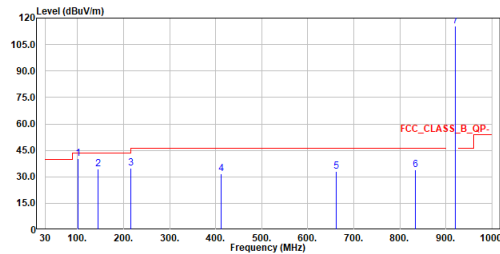
No.	Frequency MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Factor dB	Remark
1	1809.325	47.92	74.00	-26.08	73.64	-25.72	Peak
2	2713.988	44.31	74.00	-29.69	66.78	-22.47	Peak
3	3618.650	41.86	74.00	-32.14	61.29	-19.43	Peak
4	4523.313	43.56	74.00	-30.44	59.42	-15.86	Peak
5	5427.975	44.29	74.00	-29.71	58.17	-13.88	Peak
6	6332.638	55.76	74.00	-18.24	66.07	-10.31	Peak
7	7237.300	51.24	74.00	-22.76	59.19	-7.95	Peak
8	8141.962	49.14	74.00	-24.86	56.16	-7.02	Peak
9	9046.625	49.92	74.00	-24.08	55.06	-5.14	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

<DBPSK_RC4>

Site :HC-CB02
Condition :3m Horizontal
Mode :LF_SIGFOX_RC4_TX_920.1375MHz
Test by :Scott Chang

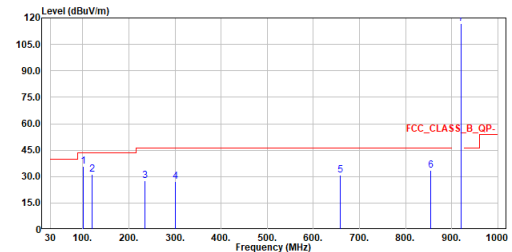


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	100.713	40.44	43.50	-3.06	47.57	-7.13	QP
2	144.072	34.52	43.50	-8.98	37.34	-2.82	QP
3	215.949	34.66	43.50	-8.84	40.61	-5.95	QP
4	412.471	31.62	46.00	-14.38	30.77	0.85	QP
5	661.470	32.94	46.00	-13.06	26.49	6.45	QP
6	834.227	33.99	46.00	-12.01	25.09	8.90	QP
7	920.169	115.55	-----	-----	105.58	9.97	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :LF_SIGFOX_RC4_TX_920.1375MHz
Test by :Scott Chang

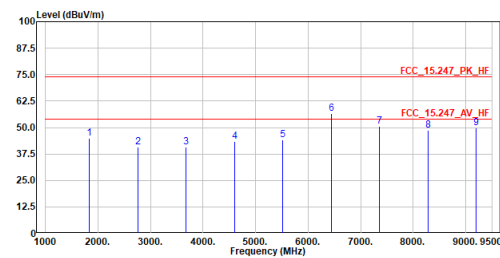


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	100.713	35.99	43.50	-7.51	43.12	-7.13	QP
2	120.016	31.22	43.50	-12.28	36.39	-5.17	QP
3	233.894	27.50	46.00	-18.50	32.13	-4.63	QP
4	299.951	27.32	46.00	-18.68	29.38	-2.06	QP
5	658.463	30.86	46.00	-15.14	24.45	6.41	QP
6	853.724	33.71	46.00	-12.29	24.43	9.28	QP
7	920.169	116.99	-----	-----	107.02	9.97	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m ,Horizontal
Mode :SIGFOX_RC4_TX_920.1375MHz
Test by :Scott Chang

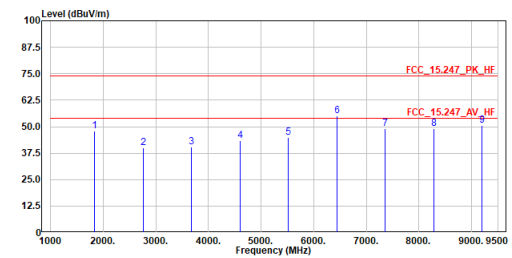


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	1840.275	44.73	74.00	-29.27	70.32	-25.59	Peak
2	2760.413	40.83	74.00	-33.17	63.13	-22.30	Peak
3	3680.550	40.59	74.00	-33.41	59.73	-19.14	Peak
4	4600.688	43.31	74.00	-30.69	58.87	-15.56	Peak
5	5520.825	44.24	74.00	-29.76	58.04	-13.80	Peak
6	6440.962	56.42	74.00	-17.58	66.09	-9.67	Peak
7	7361.100	50.41	74.00	-23.59	58.23	-7.82	Peak
8	8281.237	48.77	74.00	-25.23	55.47	-6.70	Peak
9	9201.375	49.74	74.00	-24.26	54.75	-5.01	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m ,Vertical
Mode :SIGFOX_RC4_TX_920.1375MHz
Test by :Scott Chang

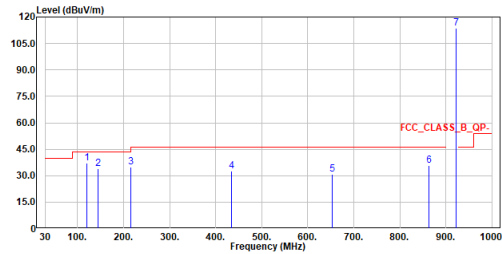


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	1840.275	47.83	74.00	-26.17	73.42	-25.59	Peak
2	2760.413	39.85	74.00	-34.15	62.15	-22.30	Peak
3	3680.550	40.27	74.00	-33.73	59.41	-19.14	Peak
4	4600.688	43.53	74.00	-30.47	59.09	-15.56	Peak
5	5520.825	44.98	74.00	-29.02	58.78	-13.80	Peak
6	6440.962	55.14	74.00	-18.86	64.81	-9.67	Peak
7	7361.100	48.07	74.00	-25.13	56.69	-7.82	Peak
8	8281.237	48.07	74.00	-25.13	55.57	-6.70	Peak
9	9201.375	50.54	74.00	-23.46	55.55	-5.01	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Horizontal
Mode :LF_SIGFOX_RC4_TX_922.6625MHz
Test by :Scott Chang

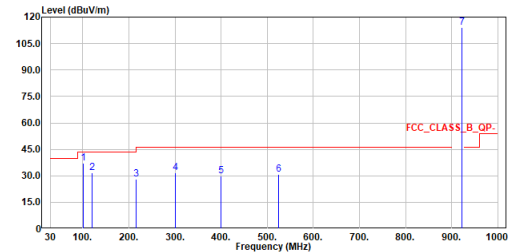


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	120.016	36.94	43.50	-6.56	42.11	-5.17	QP
2	143.975	34.12	43.50	-9.38	36.93	-2.81	QP
3	215.949	34.89	43.50	-8.61	40.84	-5.95	QP
4	433.908	32.69	46.00	-13.31	31.00	1.69	QP
5	652.643	30.70	46.00	-15.30	24.44	6.26	QP
6	862.454	35.93	46.00	-10.07	26.53	9.40	QP
7	922.691	113.87	-----	-----	103.84	10.03	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :LF_SIGFOX_RC4_TX_922.6625MHz
Test by :Scott Chang

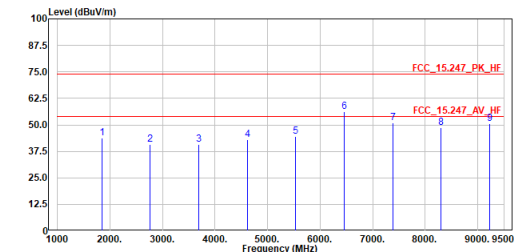


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	100.810	37.17	43.50	-6.33	44.27	-7.10	QP
2	120.016	31.79	43.50	-11.71	36.96	-5.17	QP
3	215.949	28.12	43.50	-15.38	34.07	-5.95	QP
4	299.951	31.56	46.00	-14.44	33.62	-2.06	QP
5	399.958	29.95	46.00	-16.05	29.34	0.61	QP
6	524.409	30.99	46.00	-15.01	27.65	3.34	QP
7	922.691	114.01	-----	-----	103.98	10.03	QP

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Horizontal
Mode :SIGFOX_RC4_TX_922.6625MHz
Test by :Scott Chang

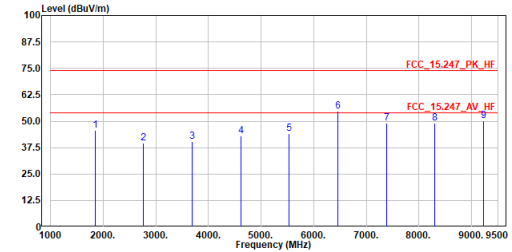


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	1845.325	43.68	74.00	-30.32	69.24	-25.56	Peak
2	2767.988	40.91	74.00	-33.09	63.18	-22.27	Peak
3	3690.650	40.66	74.00	-33.34	59.75	-19.09	Peak
4	4613.313	43.17	74.00	-30.83	58.68	-15.51	Peak
5	5535.975	44.70	74.00	-29.30	58.46	-13.76	Peak
6	6458.638	56.05	74.00	-17.95	65.60	-9.55	Peak
7	7381.300	50.77	74.00	-23.23	58.57	-7.80	Peak
8	8303.963	48.76	74.00	-25.24	55.41	-6.65	Peak
9	9226.625	50.69	74.00	-23.31	55.68	-4.99	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

Site :HC-CB02
Condition :3m Vertical
Mode :SIGFOX_RC4_TX_922.6625MHz
Test by :Scott Chang



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	
1	1845.325	45.78	74.00	-28.22	71.34	-25.56	Peak
2	2767.988	39.50	74.00	-34.50	61.77	-22.27	Peak
3	3690.650	40.50	74.00	-33.50	59.59	-19.09	Peak
4	4613.313	42.93	74.00	-31.07	58.44	-15.51	Peak
5	5535.975	44.23	74.00	-29.77	57.99	-13.76	Peak
6	6458.638	54.75	74.00	-19.25	64.30	-9.55	Peak
7	7381.300	49.01	74.00	-24.99	56.81	-7.80	Peak
8	8303.963	49.07	74.00	-24.93	55.72	-6.65	Peak
9	9226.625	50.06	74.00	-23.94	55.05	-4.99	Peak

Note:

1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.