

Project No: TM-2405000413P
Report No.: TMWK2406002101KR

FCC ID: P4Q-SC680A
IC: 2420C-SC680A

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Rev.: 00

RADIO TEST REPORT

FCC 47 CFR PART 15 SUBPART C (CLASS II PERMISSIVE CHANGE) INDUSTRY CANADA RSS-247 (CLASS IV PERMISSIVE CHANGE)

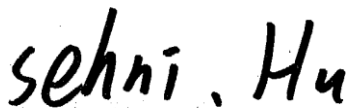
Test Standard	FCC Part 15.247 IC RSS-247 issue 3 and IC RSS-GEN issue 5
Product name	Smart Module
Brand Name	Mio/MAGELLAN/NAVMAN /MiTAC
Model No.	SC680A-NA
Test Result	Pass
Statements of Conformity	Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

Approved by:



Sehni Hu
Supervisor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	September 16, 2024	Initial Issue	ALL	Peggy Tsai

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1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	Mitac Digital Technology Corporation 4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan
Manufacturer	Mitac Digital Technology Corporation 4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan
Equipment	Smart Module
Brand Name	Mio/MAGELLAN/NAVMAN /MiTAC
Model Name	SC680A-NA
Model Discrepancy	Difference of the those brand names (list on this report) are just for marketing purpose only.
Host Equipment	Tablet
Host model	N727
HMN	PRO X
Received Date	May 29, 2024
Date of Test	June 20 ~ July 10, 2024
Power Supply	1. Power from Adapter. LUCENT TRANS / 1A52-PD20W I/P: 100-240Vac, 800mA, 50-60Hz O/P: 5Vdc, 3A or 9Vdc, 2.22A 2. Power from Adapter. TTT / MSS050200BI I/P: 100-240Vac, 0.3A, 50-60Hz O/P: 5.0Vdc, 2A(10.0W) 3. Power from Car Charger. TTT/ TCV10100 I/P: DC 12-24V O/P: DC 5V, 2A (MAX) 4. Power from Cradle. Webfleet solutions / N653 Video Cradle I/P (1): DC 12V, 1A or DC 24V, 0.5A (Fleet Port) I/P (2): DC 5V, 2A (USB-C) 5. Power from Battery. Apower Electronics Co., Ltd. / AEC565786B Rating: 3.8Vdc, 4000mAh, 15.2Wh 6. Power from Host System.(DC 5V)

PMN	SC680A-NA
EUT Serial #	HO145U00012
Class II Permissive Change	The product has been granted by FCC dated 03/25/2024 under FCC ID: P4Q-SC680A. The intention of this application is to enable the modular certified FCC ID:P4Q-SC680A to be integrated in MiTAC Tablet N727. The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. Software security remains unchanged from the original application.
Class IV Permissive Change	The product has been granted by IC dated 03/26/2024 under IC : 2420C-SC680A. The intention of this application is to enable the modular certified IC: 2420C-SC680A to be integrated in MiTAC Tablet N727. The module installed into host platform mentioned above is electronically and mechanically identical to the original certified module. Software security remains unchanged from the original application.

Remark:

1. For more details, please refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Disclaimer: Variant information between/among trademarks is provided by the applicant, test results of this report are applicable to the sample EUT received of main test model name.

1.2 INFORMATION ABOUT THE FHSS CHARACTERISTICS

1.2.1 Pseudorandom Frequency Hopping Sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels. The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master; the phase in the hopping sequence is determined by the Bluetooth clock of the master. The channel is divided into time slots where each slot corresponds to an RF hop frequency. Consecutive hops correspond to different RF hop frequencies. The nominal hop rate is 1 600 hops/s.

1.2.2 Equal Hopping Frequency Use

The channels of this system will be used equally over the long-term distribution of the hopsets.

1.2.3 Example of a 79 hopping sequence in data mode:

02, 05, 31, 24, 20, 10, 43, 36, 30, 23, 40, 06, 21, 50, 44, 09, 71, 78, 01, 13, 73, 07, 70, 72, 35, 62, 42, 11, 41, 08, 16, 29, 60, 15, 34, 61, 58, 04, 67, 12, 22, 53, 57, 18, 27, 76, 39, 32, 17, 77, 52, 33, 56, 46, 37, 47, 64, 49, 45, 38, 69, 14, 51, 26, 79, 19, 28, 65, 75, 54, 48, 03, 25, 66, 05, 16, 68, 74, 59, 63, 55

1.2.4 System Receiver Input Bandwidth

Each channel bandwidth is 1MHz.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

1.2.5 Equipment Description

15.247(a)(1) that the Rx input bandwidths shift frequencies in synchronization with the transmitted signals.

15.247(g): In accordance with the Bluetooth Industry Standard, the system is designed to comply with all of the regulations in Section 15.247 when the transmitter is presented with a continuous data (or information) system.

15.247(h): In accordance with the Bluetooth Industry Standard, the system does not coordinate its channels selection/ hopping sequence with other frequency hopping systems for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

RSS-247, 5.1 (a): The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. 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.

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1.3 EUT CHANNEL INFORMATION

Frequency Range	2402MHz-2480MHz
Modulation Type	1. GFSK for BDR-1Mbps 2. $\pi/4$ -DQPSK for EDR-2Mbps 3. 8DPSK for EDR-3Mbps
Number of channel	79 Channels

Remark:

Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 and RSS-GEN Table 1 for test channels

Number of frequencies to be tested		
Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
☐ 1 MHz or less	1	Middle
☐ 1 MHz to 10 MHz	2	1 near top and 1 near bottom
☒ More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom

1.4 ANTENNA INFORMATION

Antenna Specification	☒ PIFA ☐ PCB ☐ Dipole ☐ Coils
Antenna Gain	Gain: 0.44 dBi
Brand / Model	MIO / N722 8" PAD

Notes:

1. The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of §15.203 and RSS-GEN 6.8.

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1.5 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	± 2.213 dB
RF output power (Power Meter + Power sensor)	± 0.243 dB
Radiated Emission_9kHz-30MHz	± 3.761 dB
Radiated Emission_30MHz-200MHz	± 3.473 dB
Radiated Emission_200MHz-1GHz	± 3.946 dB
Radiated Emission_1GHz-6GHz	± 4.797 dB
Radiated Emission_6GHz-18GHz	± 4.803 dB
Radiated Emission_18GHz-26GHz	± 3.459 dB
Radiated Emission_26GHz-40GHz	± 3.297 dB

Remark:

- 1.This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

1.6 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Ben Yang	-
Radiation	Tony Chao 、 Ray Li	-
RF Conducted	Marco Chan	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

1.7 INSTRUMENT CALIBRATION

Conducted FCC/NCC/IC(All)					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Sensor	Anritsu	MA2411B	1911387	2023-07-25	2024-07-24
Power Meter	Anritsu	ML2496A	2136002	2023-11-16	2024-11-15
Cable	Woken	SUMITOMO	1	2024-03-02	2025-03-01
Signal Analyzer	KEYSIGHT	N9030B	MY62291089	2023-10-13	2024-10-12
Software	Radio Test Software Ver. 21				

AC Mains Conduction					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI	100064	2024-06-14	2025-06-13
LISN	TESEQ	LN2-16N	22012	2024-02-29	2025-02-27
Cable	Woken	SFL402	185A	2024-07-08	2025-07-07
Software	e3 V6-110812				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.

966A_Radiated					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2024-03-15	2025-03-14
Thermo-Hygro Meter	WISEWIND	1206	D07	2023-12-08	2024-12-07
Active Loop Antenna	SCHWARZBEC K	FMZB 1513-60	1513-60-028	2023-12-13	2024-12-12
Bi-Log Antenna	Sunol Sciences	JB3	A030105	2023-08-08	2024-08-07
Preamplifier	EMEC	EM330	060609	2024-02-21	2025-02-20
Cable	Huber+Suhner	104PEA	20995+21000+182330	2024-02-21	2025-02-20
Horn Antenna	ETC	MCTD 1209	DRH13M02003	2023-12-28	2024-12-27
Preamplifier	HP	8449B	3008A00965	2023-12-22	2024-12-21
Cable	EMCI	EMC101G	221213+221011+221012	2023-10-17	2024-10-16
Attenuator	Mini-Circuits	BW-S9W5	BWS9W5-09-966A-01	2024-02-07	2025-02-06
High Pass Filters	Titan Microwave	T04H30001800070S01	22011402-4	2024-06-12	2025-06-13
Horn Antenna	SCHWARZBEC K	BBHA9170	1047	2023-12-13	2024-12-12
Pre-Amplifier	EMCI	EMC184045SE	980860	2023-12-12	2024-12-11
Radio Communication Analyzer	Anritsu	MT-8820C	6201240043	2023-12-24	2024-12-23
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Site Validation	CCS	966A	N/A	2023-07-10	2024-07-09
Software	e3 V9-210616c				

Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Required.

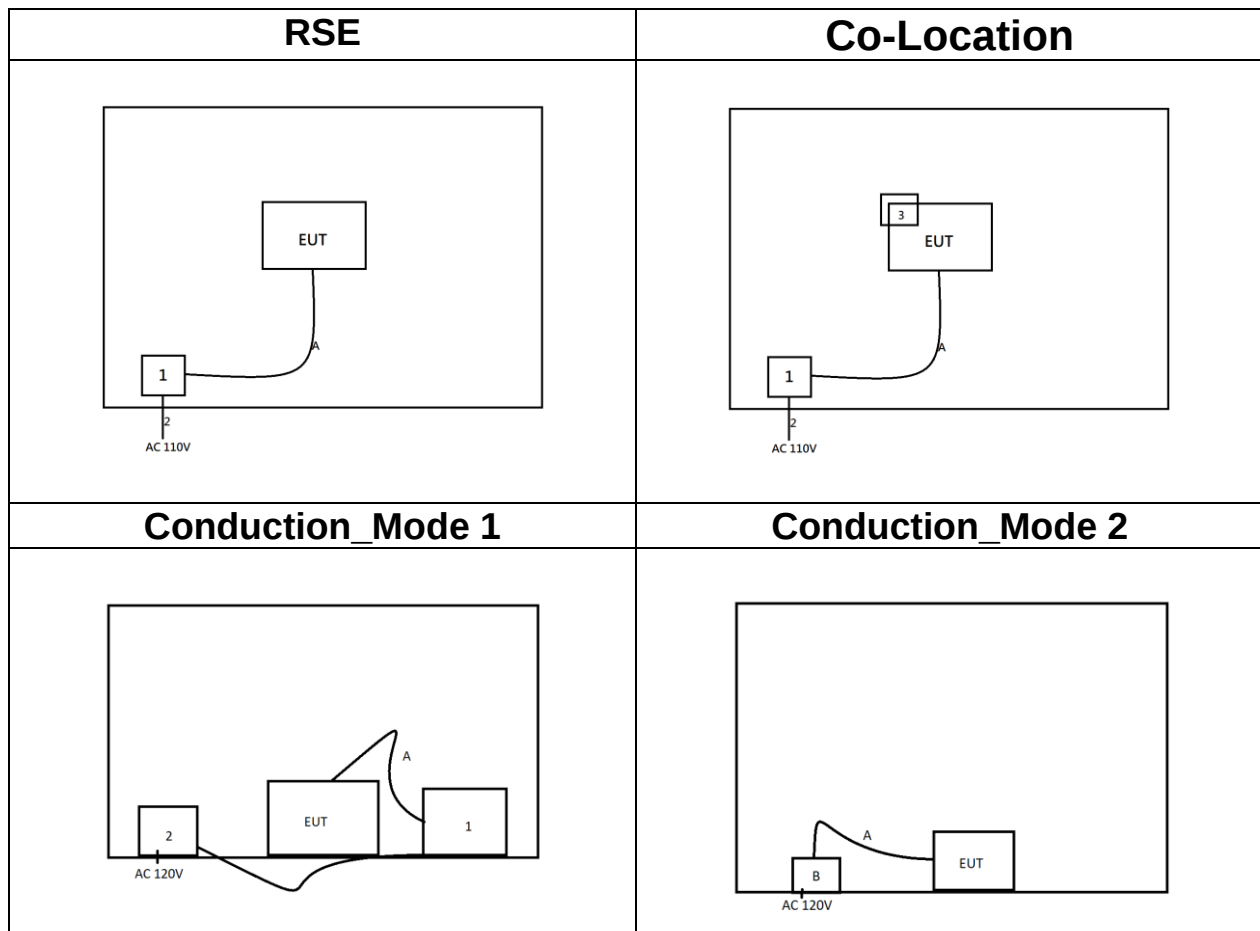
1.8 SUPPORT AND EUT ACCESSORIES EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

Support Equipment (Conduction)						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A	N/A
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A	N/A
A	Type-C Cable	N/A	N/A	N/A	N/A	N/A
B	Adapter	TTT	MSS050200BI	N/A	N/A	N/A

Support Equipment (RSE 、Co-Location)						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A	N/A
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A	N/A
3	Proximity card	Easycard	N/A	8380 3765 0294 5360	N/A	N/A
A	USB-A to Type-C Cable	N/A	N/A	N/A	N/A	N/A

1.9 TEST SETUP DIAGRAM



1.10 TEST PROGRAM

The EUT connection corresponds to the surrounding fixture control board.
This EUT uses " QRCT4 v4.0" software to set the frequency, modulation, and power to allow the sample to continuously transmit (including frequency hopping mode).

1.11 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.247, KDB 558074, RSS-247 Issue 3 and RSS-GEN Issue 5.

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2. TEST SUMMARY

IC Standard Section	FCC Standard Section	Report Section	Test Item	Result
RSS-GEN 6.8	15.203	1.3	Antenna Requirement	Pass
RSS-GEN 8.8	15.207(a)	4.1	AC Conducted Emission	Pass
RSS-247(5.4)(b)	15.247(b)(1)	4.2	Output Power Measurement	Pass
RSS-GEN 8.9, 8.10	15.247(d) 15.209 15.205	4.3	Radiation Band Edge	Pass
RSS-GEN 8.9, 8.10	15.247(d) 15.209 15.205	4.3	Radiation Spurious Emission	Pass

Note:

The host antenna is of a different type than originally approved, RF output power was reduced compared to the original application, so conducted performance in the intended frequency bands is expected to be lower than measured in the original modular approval. However, radiation performance will be fully evaluated for product compliance.

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	GFSK for BDR-1Mbps (DH5) $\pi/4$ -DQPSK for 2Mbps (2DH5) 8DPSK for EDR-3Mbps (3DH5)
Test Channel Frequencies	GFSK for BDR-1Mbps: 1.Lowest Channel: 2402MHz 2.Middle Channel: 2441MHz 3.Highest Channel: 2480MHz $\pi/4$-DQPSK for 2Mbps: 1.Lowest Channel: 2402MHz 2.Middle Channel: 2441MHz 3.Highest Channel: 2480MHz 8DPSK for EDR-3Mbps: 1.Lowest Channel: 2402MHz 2.Middle Channel: 2441MHz 3.Highest Channel: 2480MHz

Remark:

1. EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.
2. The system support GFSK , $\pi/4$ DQPSK ,8DPSK , the $\pi/4$ DQPSK were reduced since the identical parameters with 8dpsk.

3.2 THE WORST MODE OF MEASUREMENT

AC Power Line Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Power supply Mode	Mode 1: EUT Power by Host System Mode 2: EUT Power by Adapter(TTT)+USB-A Mode 3: EUT Power by Adapter(LUCENT TRANS)+USB-A
Worst Mode	☒ Mode 1 ☒ Mode 2 ☐ Mode 3 ☐ Mode 4

Radiated Emission Measurement Above 1G	
Test Condition	Radiated Emission Above 1G
Power supply Mode	Mode 1: EUT Power by Host System
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4
Worst Position	☐ Placed in fixed position. ☐ Placed in fixed position at X-Plane (E2-Plane) ☐ Placed in fixed position at Y-Plane (E1-Plane) ☒ Placed in fixed position at Z-Plane (H-Plane)

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT Power by Adapter(LUCENT TRANS)+Type-C Mode 2: EUT Power by Adapter(TTT)+USB-A Mode 3: EUT Power by Car charger(12V)+Type-C+Cradle Mode 4: EUT Power by Car charger(24V)+Type-C+Cradle Mode 5: EUT Power by Cradle(12V) Mode 6: EUT Power by Cradle(24V) Mode 7: EUT Power by Host System
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4 ☐ Mode 5 ☐ Mode 6 ☐ Mode 7

Radiated Emission Measurement [Co-Location]	
Test Condition	Radiated Emission [Co-Location]
Power supply Mode	Mode 1: EUT Power by NFC+BT+LTE_Band2 Mode 2: EUT Power by NFC+BT+LTE_Band13
Worst Mode	☒ Mode 1 ☐ Mode 2 ☐ Mode 3 ☐ Mode 4

Remark:

1. The worst mode was record in this test report.
2. AC power line conducted emission were performed the EUT transmit at the highest output power channel as worse case.
3. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Z-Plane) were recorded in this report
4. The platform device has an NFC transmitter and a WLAN&WWAN 's module, which evaluates Radiated Emission based on co-location.

4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

Frequency Range (MHz)	Limits(dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

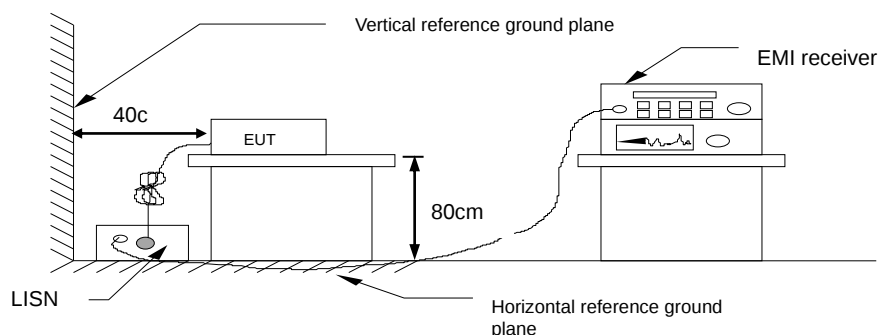
* Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI C63.10: 2013 clause 6.2,

1. The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
2. EUT connected to the line impedance stabilization network (LISN)
3. Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Recorded Line for Neutral and Line.

4.1.3 Test Setup



4.1.4 Test Result

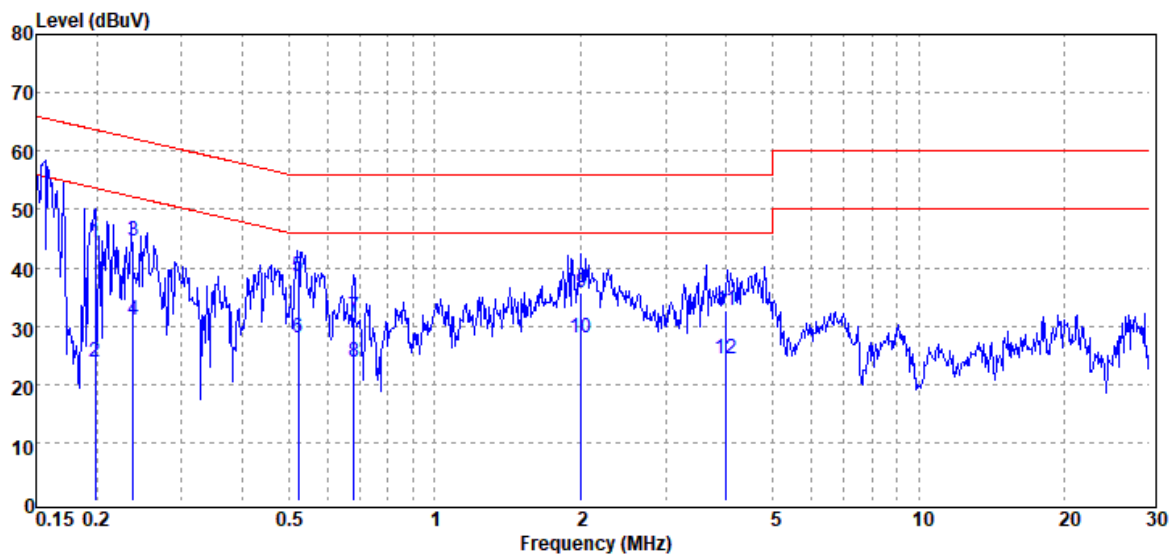
Pass.

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Test Data

Project No : TM-2405000413P
Operation Mode : BT
Test Chamber : Conduction
Probe : LINE
Note : Mode 1

Test Date : 2024-07-08
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.199	QP	44.05	0.12	44.17	63.67	-19.50
0.199	Average	23.66	0.12	23.78	53.67	-29.89
0.238	QP	44.47	0.12	44.59	62.18	-17.59
0.238	Average	31.01	0.12	31.13	52.18	-21.05
0.523	QP	38.28	0.11	38.39	56.00	-17.61
0.523	Average	27.88	0.11	27.99	46.00	-18.01
0.681	QP	31.46	0.12	31.58	56.00	-24.42
0.681	Average	23.63	0.12	23.75	46.00	-22.25
2.009	QP	35.52	0.15	35.67	56.00	-20.33
2.009	Average	27.77	0.15	27.92	46.00	-18.08
4.008	QP	32.58	0.21	32.79	56.00	-23.21
4.008	Average	24.02	0.21	24.23	46.00	-21.77

Note: 1. Actual FS= Spectrum Read Level + Factor

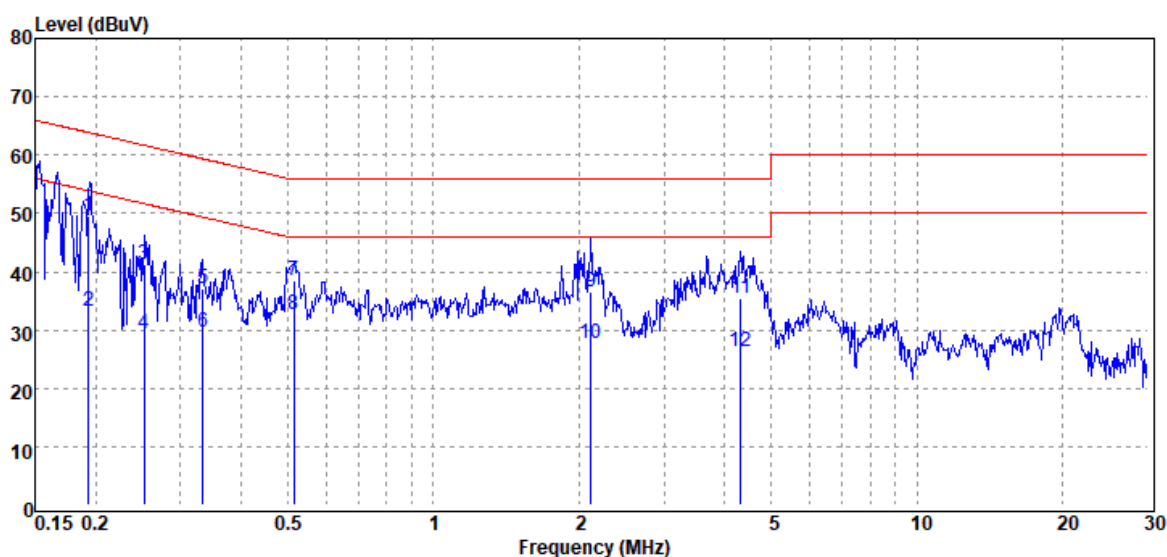
Note: 2. Margin= Actual FS - Limit

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Project No : TM-2405000413P
 Operation Mode : BT
 Test Chamber : Conduction
 Probe : NEUTRAL
 Note : Mode 1

Test Date : 2024-07-08
 Temp./Humi. : 23.4°C / 54%
 Engineer : Ben Yang
 Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.194	QP	49.51	0.09	49.60	63.88	-14.28
0.194	Average	33.01	0.09	33.10	53.88	-20.78
0.252	QP	41.16	0.09	41.25	61.68	-20.43
0.252	Average	29.29	0.09	29.38	51.68	-22.30
0.334	QP	37.05	0.08	37.13	59.35	-22.22
0.334	Average	29.55	0.08	29.63	49.35	-19.72
0.515	QP	38.52	0.08	38.60	56.00	-17.40
0.515	Average	32.65	0.08	32.73	46.00	-13.27
2.118	QP	36.28	0.13	36.41	56.00	-19.59
2.118	Average	27.42	0.13	27.55	46.00	-18.45
4.326	QP	35.24	0.18	35.42	56.00	-20.58
4.326	Average	26.03	0.18	26.21	46.00	-19.79

Note: 1. Actual FS= Spectrum Read Level + Factor

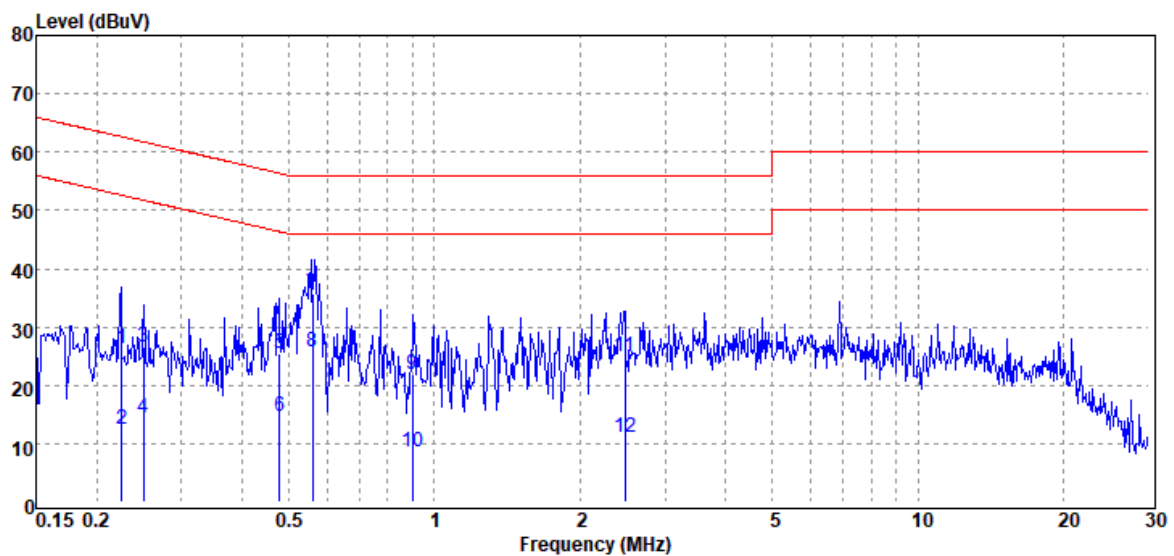
Note: 2. Margin= Actual FS - Limit

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Project No : TM-2405000413P
Operation Mode : BT
Test Chamber : Conduction
Probe : LINE
Note : Mode 2

Test Date : 2024-07-10
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.225	QP	25.95	0.39	26.34	62.62	-36.28
0.225	Average	11.98	0.39	12.37	52.62	-40.25
0.251	QP	26.10	0.39	26.49	61.74	-35.25
0.251	Average	14.10	0.39	14.49	51.74	-37.25
0.478	QP	25.06	0.38	25.44	56.38	-30.94
0.478	Average	14.18	0.38	14.56	46.38	-31.82
0.559	QP	35.38	0.38	35.76	56.00	-20.24
0.559	Average	25.32	0.38	25.70	46.00	-20.30
0.901	QP	21.35	0.39	21.74	56.00	-34.26
0.901	Average	8.17	0.39	8.56	46.00	-37.44
2.481	QP	24.75	0.20	24.95	56.00	-31.05
2.481	Average	10.90	0.20	11.10	46.00	-34.90

Note: 1. Actual FS= Spectrum Read Level + Factor

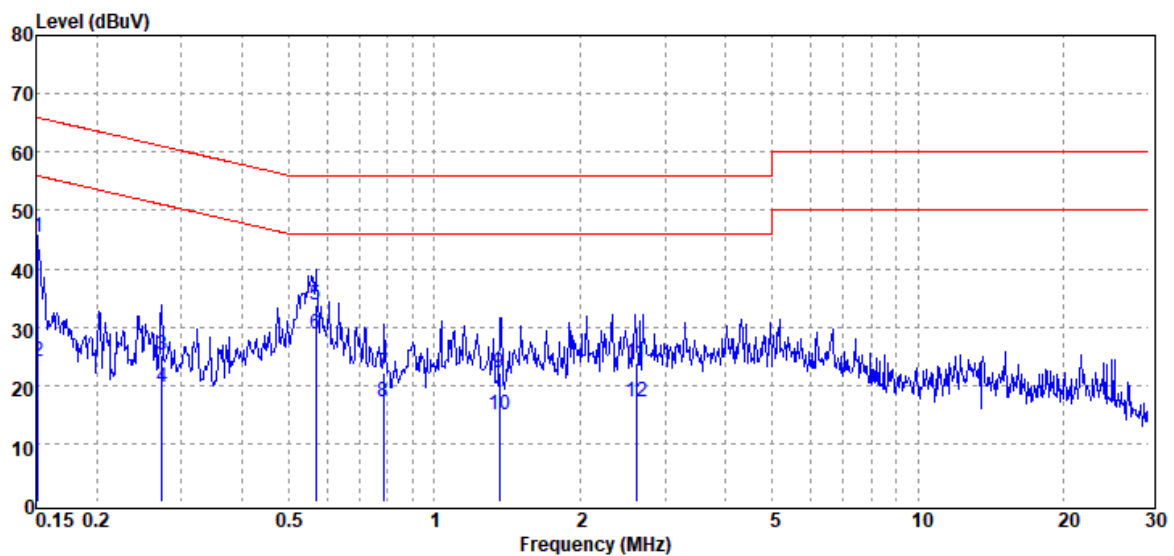
Note: 2. Margin= Actual FS - Limit

Report No.: TMWK2406002101KR

Rev.: 00

Project No : TM-2405000413P
Operation Mode : BT
Test Chamber : Conduction
Probe : NEUTRAL
Note : Mode 2

Test Date : 2024-07-10
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.152	QP	45.28	0.11	45.39	65.92	-20.53
0.152	Average	24.11	0.11	24.22	55.92	-31.70
0.274	QP	24.95	0.36	25.31	61.01	-35.70
0.274	Average	19.33	0.36	19.69	51.01	-31.32
0.569	QP	33.33	0.35	33.68	56.00	-22.32
0.569	Average	28.56	0.35	28.91	46.00	-17.09
0.785	QP	21.81	0.36	22.17	56.00	-33.83
0.785	Average	16.79	0.36	17.15	46.00	-28.85
1.365	QP	22.03	0.14	22.17	56.00	-33.83
1.365	Average	14.83	0.14	14.97	46.00	-31.03
2.616	QP	23.56	0.18	23.74	56.00	-32.26
2.616	Average	17.02	0.18	17.20	46.00	-28.80

Note: 1. Actual FS= Spectrum Read Level + Factor

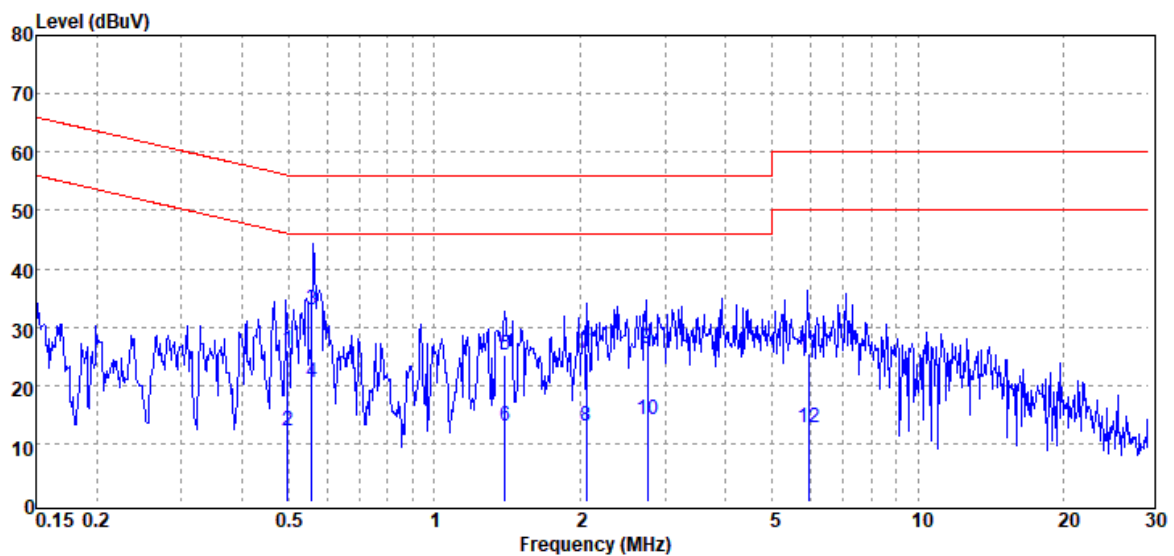
Note: 2. Margin= Actual FS - Limit

Report No.: TMWK2406002101KR

Rev.: 00

Project No : TM-2405000413P
Operation Mode : BT
Test Chamber : Conduction
Probe : LINE
Note : Mode 2

Test Date : 2024-07-10
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
Test Voltage : AC 230V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.496	QP	25.70	0.38	26.08	56.06	-29.98
0.496	Average	11.86	0.38	12.24	46.06	-33.82
0.559	QP	32.49	0.38	32.87	56.00	-23.13
0.559	Average	20.15	0.38	20.53	46.00	-25.47
1.400	QP	25.04	0.16	25.20	56.00	-30.80
1.400	Average	12.77	0.16	12.93	46.00	-33.07
2.060	QP	25.30	0.18	25.48	56.00	-30.52
2.060	Average	12.78	0.18	12.96	46.00	-33.04
2.755	QP	26.11	0.20	26.31	56.00	-29.69
2.755	Average	14.05	0.20	14.25	46.00	-31.75
5.927	QP	25.11	0.29	25.40	60.00	-34.60
5.927	Average	12.41	0.29	12.70	50.00	-37.30

Note: 1. Actual FS= Spectrum Read Level + Factor

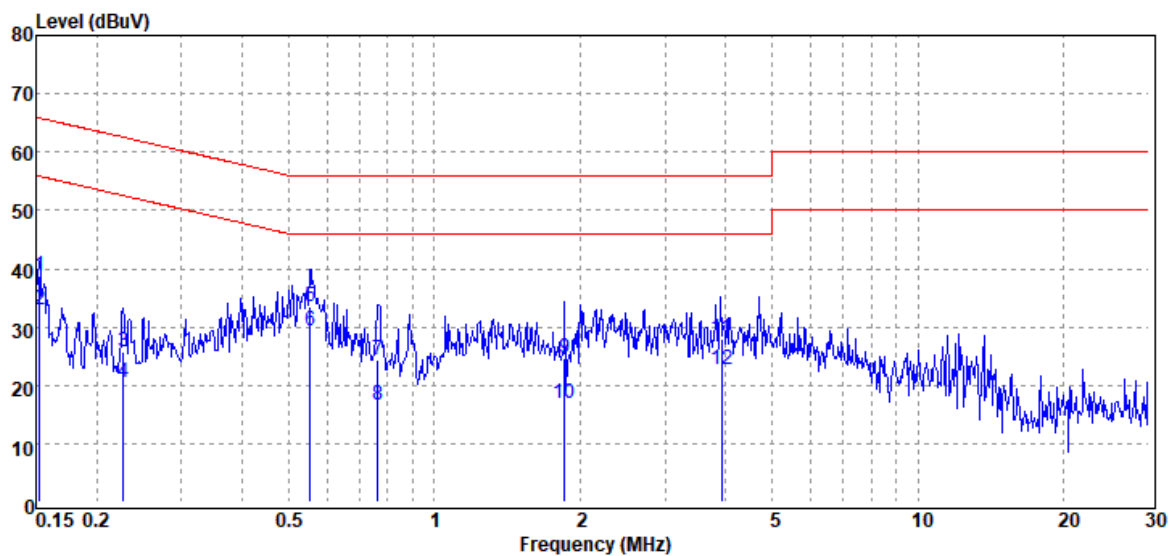
Note: 2. Margin= Actual FS - Limit

Report No.: TMWK2406002101KR

Rev.: 00

Project No : TM-2405000413P
Operation Mode : BT
Test Chamber : Conduction
Probe : NEUTRAL
Note : Mode 2

Test Date : 2024-07-10
Temp./Humi. : 23.4°C / 54%
Engineer : Ben Yang
Test Voltage : AC 230V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	QP	38.72	0.12	38.84	65.85	-27.01
0.153	Average	32.69	0.12	32.81	55.85	-23.04
0.228	QP	25.48	0.36	25.84	62.54	-36.70
0.228	Average	20.13	0.36	20.49	52.54	-32.05
0.553	QP	33.25	0.35	33.60	56.00	-22.40
0.553	Average	29.00	0.35	29.35	46.00	-16.65
0.763	QP	23.92	0.36	24.28	56.00	-31.72
0.763	Average	16.26	0.36	16.62	46.00	-29.38
1.860	QP	24.48	0.16	24.64	56.00	-31.36
1.860	Average	16.60	0.16	16.76	46.00	-29.24
3.919	QP	27.68	0.21	27.89	56.00	-28.11
3.919	Average	22.42	0.21	22.63	46.00	-23.37

Note: 1. Actual FS= Spectrum Read Level + Factor

Note: 2. Margin= Actual FS - Limit

Report No.: TMWK2406002101KR

4.2 OUTPUT POWER MEASUREMENT

4.2.1 Test Limit

According to §15.247(a)(1) and RSS-247 section 5.4(b)

Peak output power :

FCC

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 output power no greater than 125 mW.

IC

According to RSS-247 section 5.4(b), For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

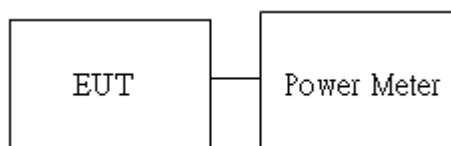
Limit	☒ Antenna not exceed 6 dBi : 21dBm ☐ Antenna with DG greater than 6 dBi : 21dBm [Limit = 30 – (DG – 6)]
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Average output power : For reporting purposes only.

4.2.2 Test Procedure

1. The EUT RF output connected to the power meter by RF cable.
2. Setting maximum power transmit of EUT.
3. The path loss was compensated to the results for each measurement.
4. Measure and record the result of Peak output power and Average output power. in the test report.

4.2.3 Test Setup



Report No.: TMWK2406002101KR

4.2.4 Test Result

Temperature: 21.6 ~ 22.1°C

Test date: June 20 ~ 21, 2024

Humidity: 59 ~ 62% RH

Tested by: Marco Chan

Peak & Average output power :

1M BR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	4.72	2.965	1000
Mid	2441	9	3.97	2.495	1000
High	2480	9	6.38	4.345	1000

1M BR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	4.71	2.961	1000
Mid	2441	9	3.96	2.491	1000
High	2480	9	6.35	4.319	1000

2M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	5.58	3.614	125
Mid	2441	9	4.90	3.090	125
High	2480	9	7.19	5.236	125

2M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	3.63	2.304	125
Mid	2441	9	2.75	1.882	125
High	2480	9	5.22	3.323	125

3M EDR mode (Peak):

CH	Freq. (MHz)	Power Setting	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	5.85	3.846	125
Mid	2441	9	5.29	3.381	125
High	2480	9	7.39	5.483	125

3M EDR mode (Average):

CH	Freq. (MHz)	Power Setting	Avg. Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	9	3.43	2.201	125
Mid	2441	9	2.54	1.793	125
High	2480	9	5.02	3.174	125

Note: Measured by power meter, cable loss + Duty cycle factor has been offsetted to the power meter for Avg. power and cable loss has been offsetted for Peak power measurement.

EIRP Power:

1M BR mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	9	4.71	0.44	3.276	4000
Mid	2441	9	3.96	0.44	2.757	4000
High	2480	9	6.35	0.44	4.780	4000

2M EDR mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	9	3.63	0.44	2.550	4000
Mid	2441	9	2.75	0.44	2.082	4000
High	2480	9	5.22	0.44	3.677	4000

3M EDR mode EIRP

Channel	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	9	3.43	0.44	2.436	4000
Mid	2441	9	2.54	0.44	1.984	4000
High	2480	9	5.02	0.44	3.513	4000

* **Note:** EIRP = Average Power + Gain

Report No.: TMWK2406002101KR

4.3 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.3.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

Above 30 MHz

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

IC according to RSS-247 section 5.5, RSS-Gen, Section 8.9 and 8.10

RSS-Gen Table 3 and Table 5 – General Field Strength Limits for Transmitters and Receivers at Frequencies Above 30 MHz ^(Note)

Frequency (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

Note: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with Section 6.6.

RSS-Gen Table 6: General Field Strength Limits for Transmitters at Frequencies Below 30 MHz (Transmit)

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (m)
9-490 kHz ^{Note}	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Report No.: TMWK2406002101KR

4.3.2 Test Procedure

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

4. The SA setting following :

(1) Below 30MHz :

(1.1) 9KHz-490KHz : RBW=200Hz / VBW=1kHz / Sweep=AUTO

(1.2) 490KHz-30MHz : RBW=10kHz / VBW=30kHz / Sweep=AUTO

(2) 30MHz to 1GHz : RBW = 100kHz, VBW $\geq$ 3*RBW, Sweep = Auto,

Detector = Peak, Trace = Max hold.

(3) Above 1GHz :

(3.1) For Peak measurement : RBW = 1MHz, VBW $\geq$ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(3.2) For Average measurement : RBW = 1MHz,VBW

'If Duty Cycle $\geq$ 98%, VBW=10Hz.

'If Duty Cycle < 98%, VBW=1/T.

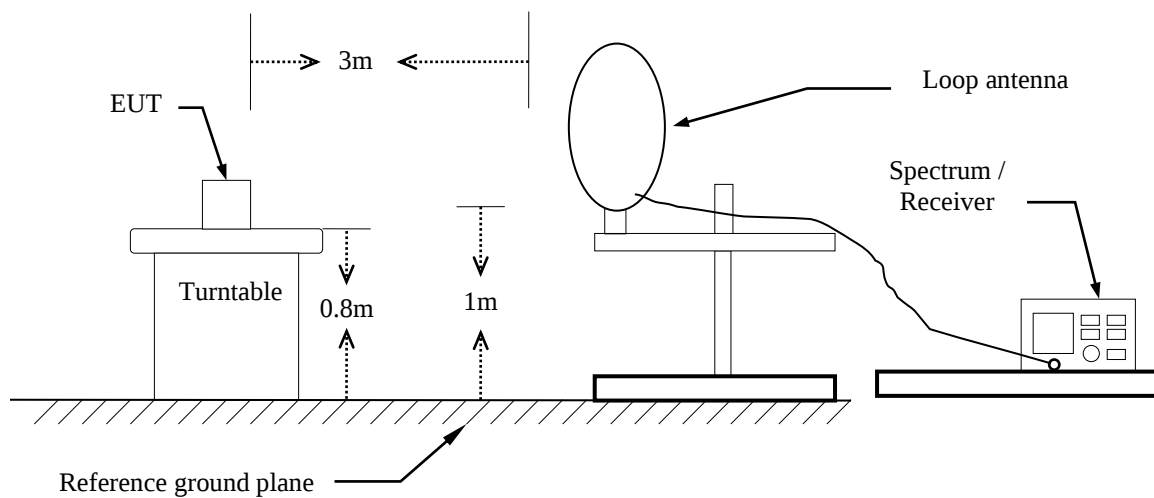
5. Data result

Actual FS=Spectrum Reading Level + Factor

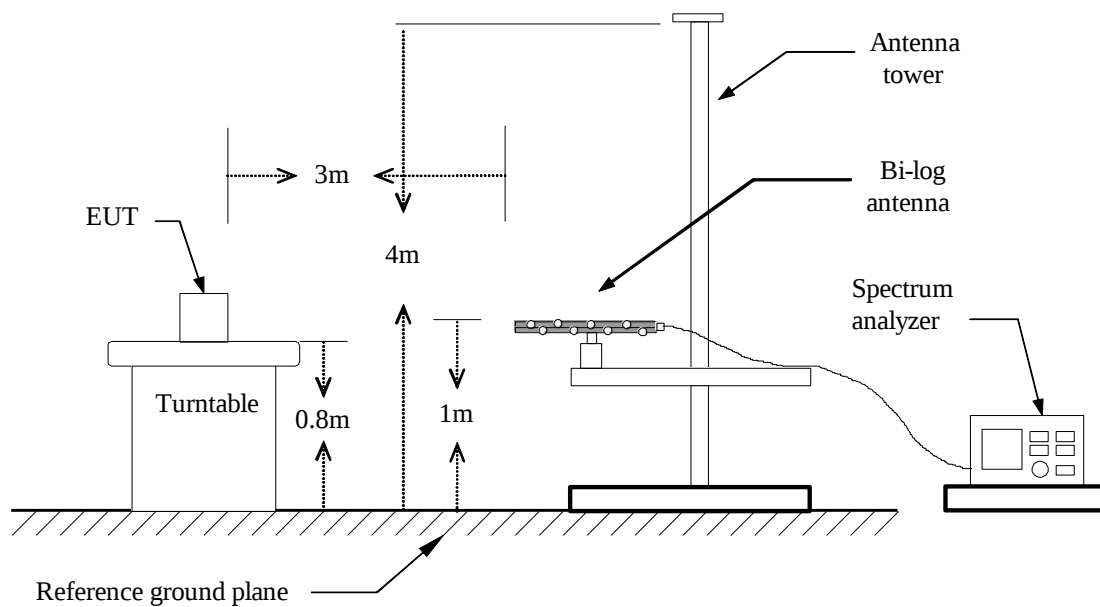
Margin=Actual FS- Limit

4.3.3 Test Setup

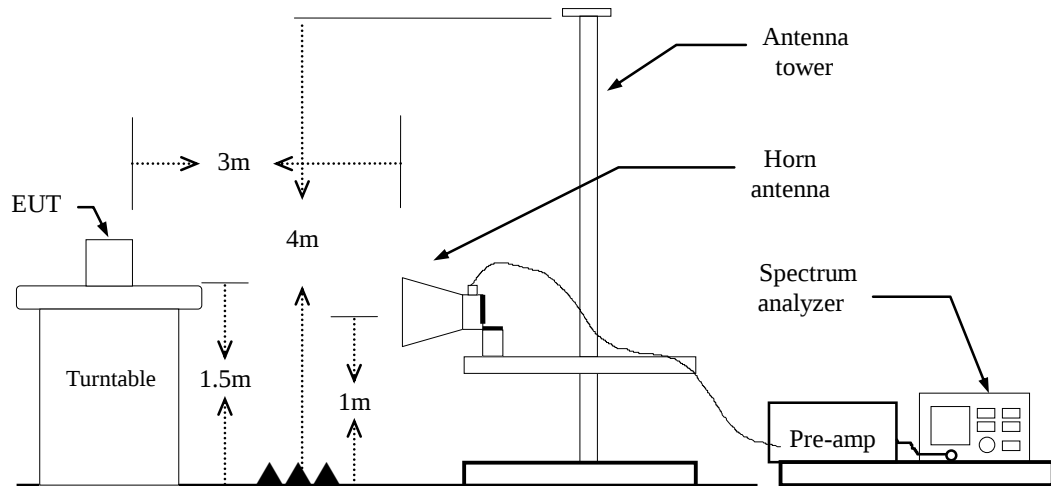
9kHz ~ 30MHz



30MHz ~ 1GHz



Above 1 GHz

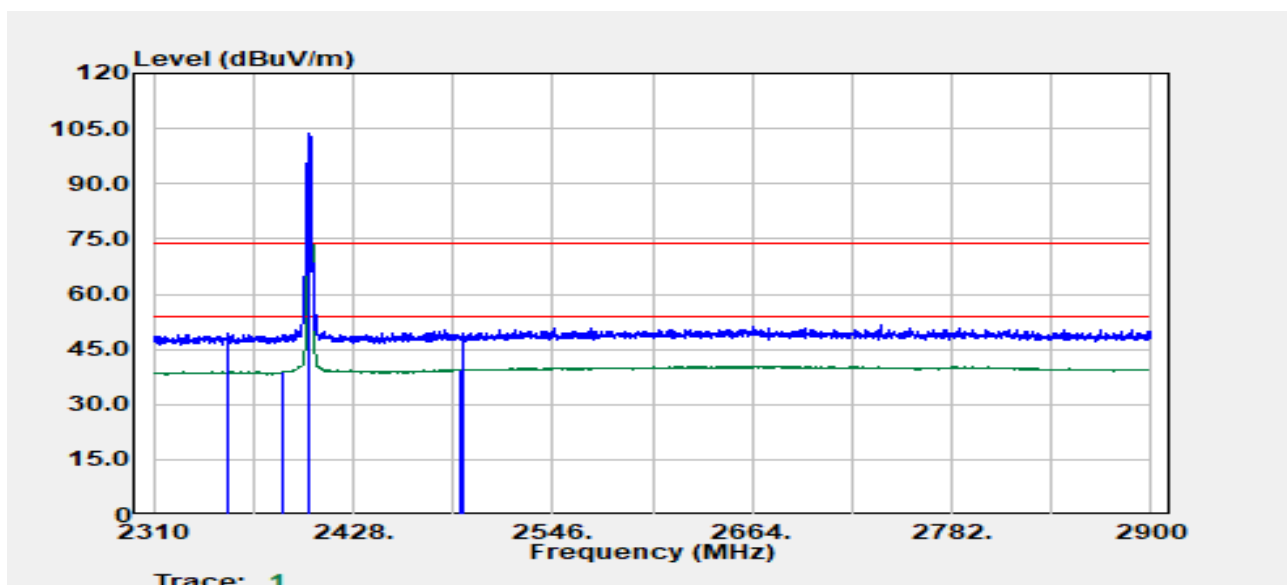


Report No.: TMWK2406002101KR

4.3.4 Test Result

Band Edge Test Data

Project No	:TM-2405000413P	Test Date	:2024-07-04
Operation Band	:BT BR	Temp./Humi.	:24.6/57
Frequency	:2402 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:Bandedge	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:9		

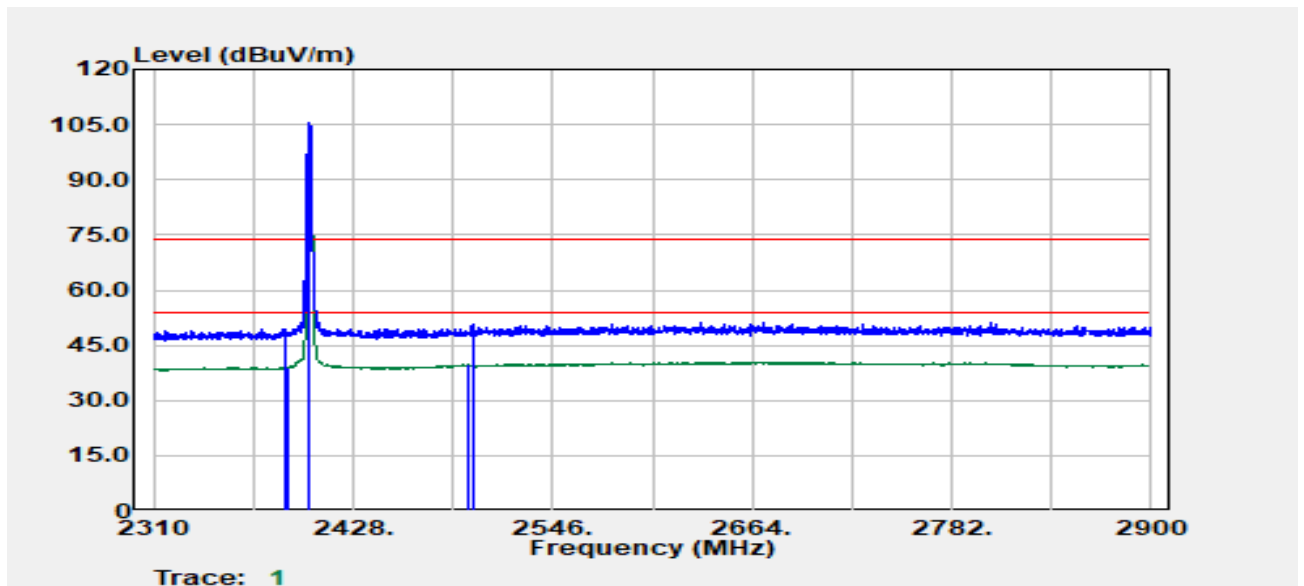


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2353.77	Peak	42.91	6.24	49.15	74.00	-24.85
2386.78	Average	32.80	6.21	39.01	54.00	-14.99
2402.00	Peak	97.60	6.29	103.89	--	--
2402.00	Average	97.50	6.29	103.79	--	--
2490.83	Average	32.71	6.81	39.52	54.00	-14.48
2492.58	Peak	42.60	6.81	49.41	74.00	-24.59

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2402 MHz
Operation Mode :Bandedge
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A

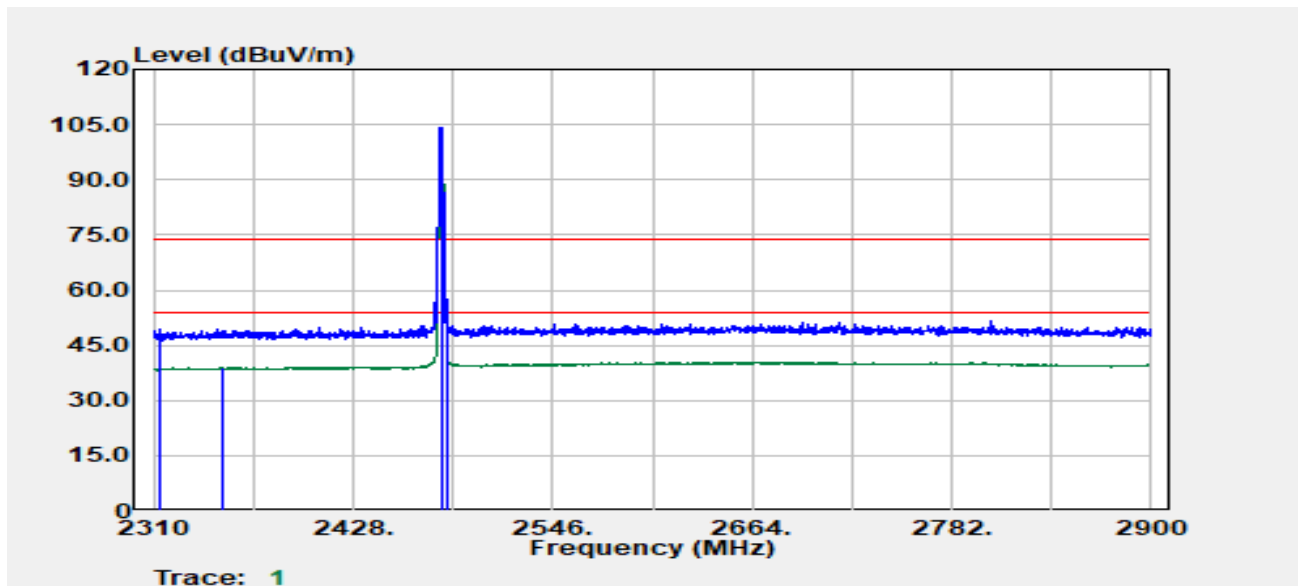


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2387.78	Peak	43.04	6.23	49.28	74.00	-24.72
2390.00	Average	32.78	6.28	39.06	54.00	-14.94
2402.00	Peak	99.03	6.29	105.32	--	--
2402.00	Average	98.95	6.29	105.24	--	--
2496.08	Average	32.81	6.83	39.64	54.00	-14.36
2498.83	Peak	43.86	6.84	50.69	74.00	-23.31

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :Bandedge
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :VERTICAL
Engineer :Ray Li
Test Chamber : 966A

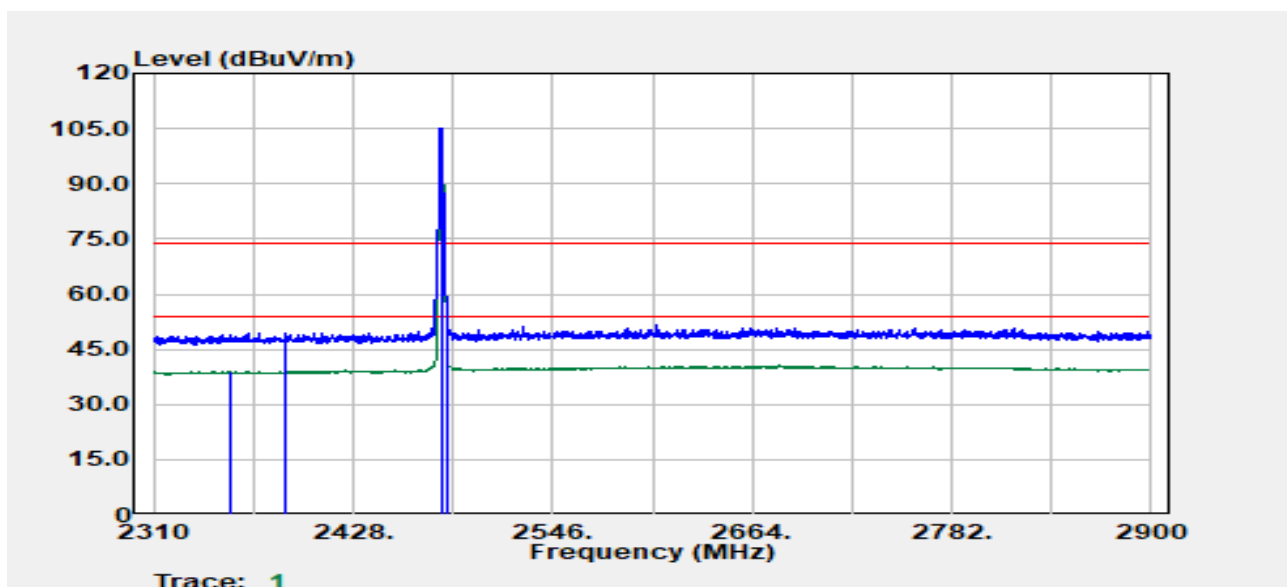


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2313.25	Peak	43.23	6.14	49.37	74.00	-24.63
2350.02	Average	32.64	6.24	38.88	54.00	-15.12
2480.00	Peak	97.65	6.67	104.32	--	--
2480.00	Average	97.48	6.67	104.15	--	--
2483.57	Average	38.41	6.72	45.13	54.00	-8.87
2483.82	Peak	46.97	6.72	53.69	74.00	-20.31

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :Bandedge
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A

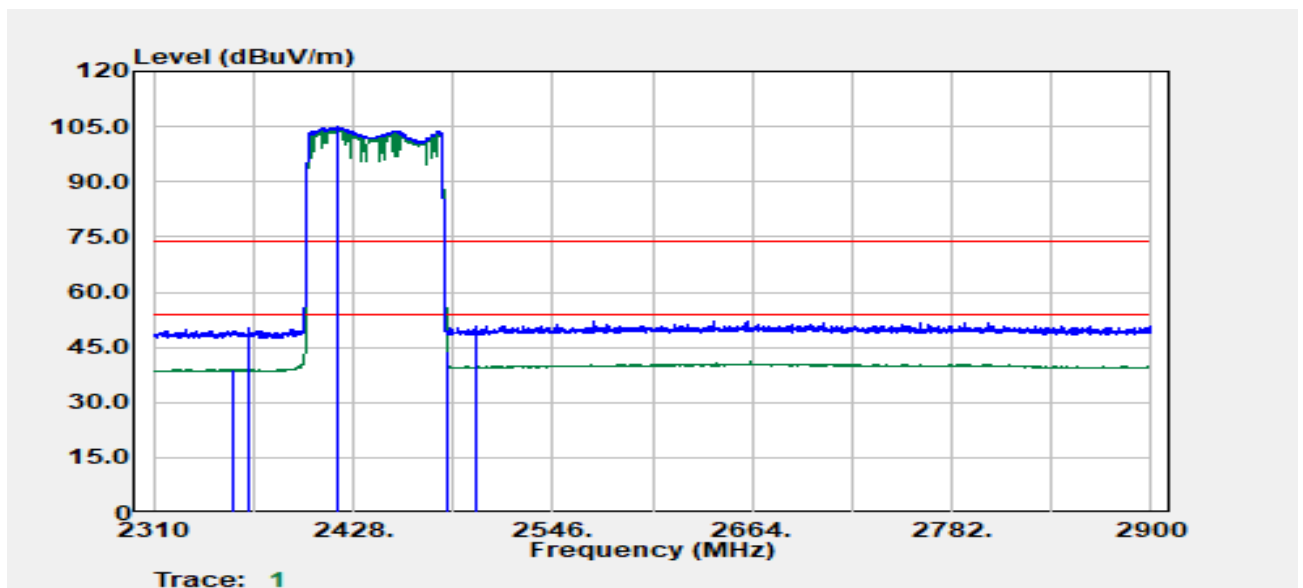


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2355.52	Average	32.70	6.25	38.94	54.00	-15.06
2388.53	Peak	43.31	6.25	49.56	74.00	-24.44
2480.00	Peak	98.60	6.67	105.27	--	--
2480.00	Average	98.49	6.67	105.15	--	--
2483.57	Average	39.21	6.72	45.93	54.00	-8.07
2484.32	Peak	45.82	6.73	52.55	74.00	-21.45

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2402~2480 MHz
Operation Mode :Hopping
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :VERTICAL
Engineer :Ray Li
Test Chamber : 966A

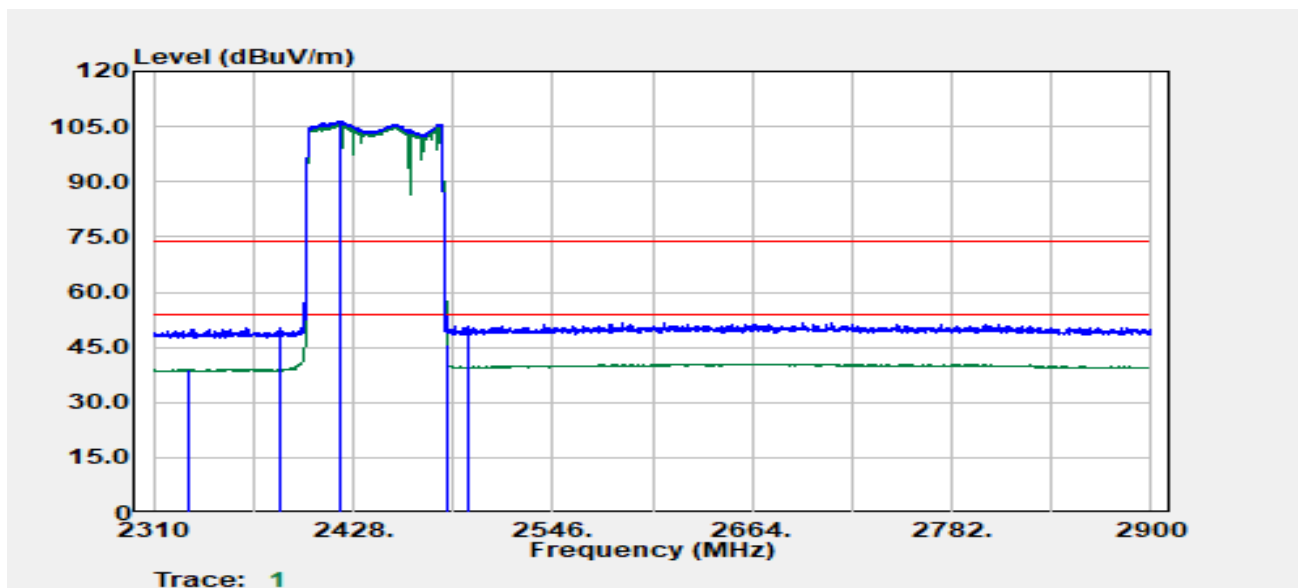


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2356.77	Average	32.75	6.25	39.00	54.00	-15.00
2366.52	Peak	44.11	6.19	50.30	74.00	-23.70
2419.05	Peak	98.60	6.31	104.91	--	--
2419.05	Average	98.45	6.31	104.76	--	--
2483.57	Average	37.21	6.72	43.92	54.00	-10.08
2500.00	Peak	43.41	6.84	50.25	74.00	-23.75

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2402~2480 MHz
Operation Mode :Hopping
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A

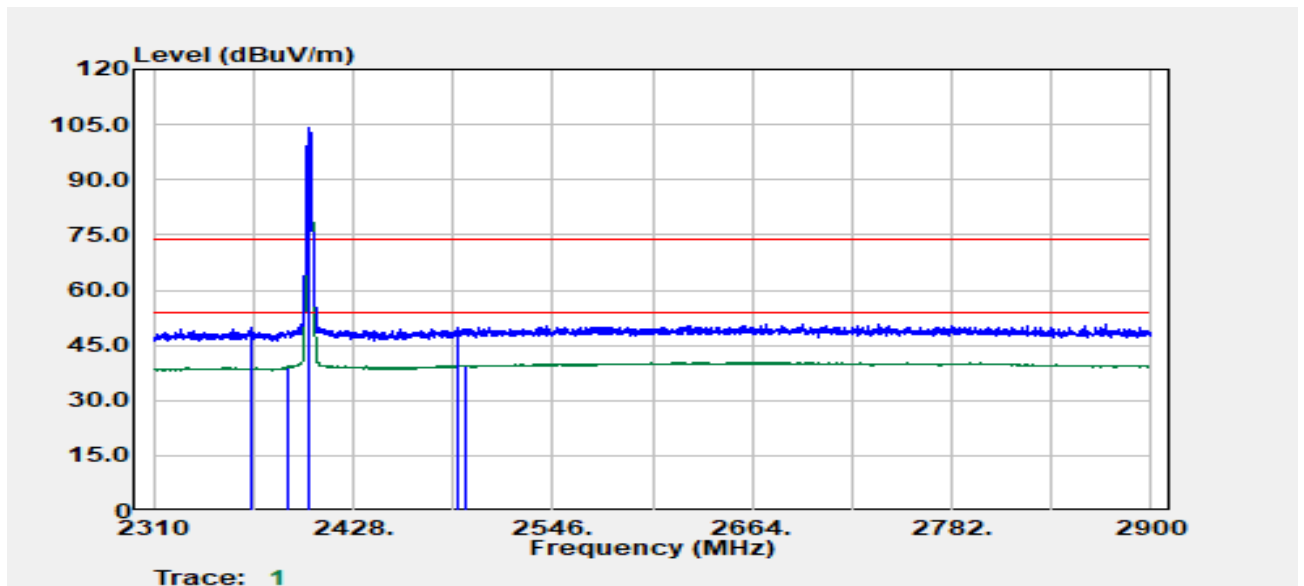


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2330.76	Average	32.86	6.18	39.04	54.00	-14.96
2384.03	Peak	44.20	6.15	50.35	74.00	-23.65
2420.80	Peak	99.97	6.32	106.29	--	--
2420.80	Average	99.88	6.32	106.21	--	--
2483.57	Average	38.95	6.72	45.67	54.00	-8.33
2496.58	Peak	44.07	6.83	50.89	74.00	-23.11

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :Bandedge
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :VERTICAL
Engineer :Ray Li
Test Chamber : 966A

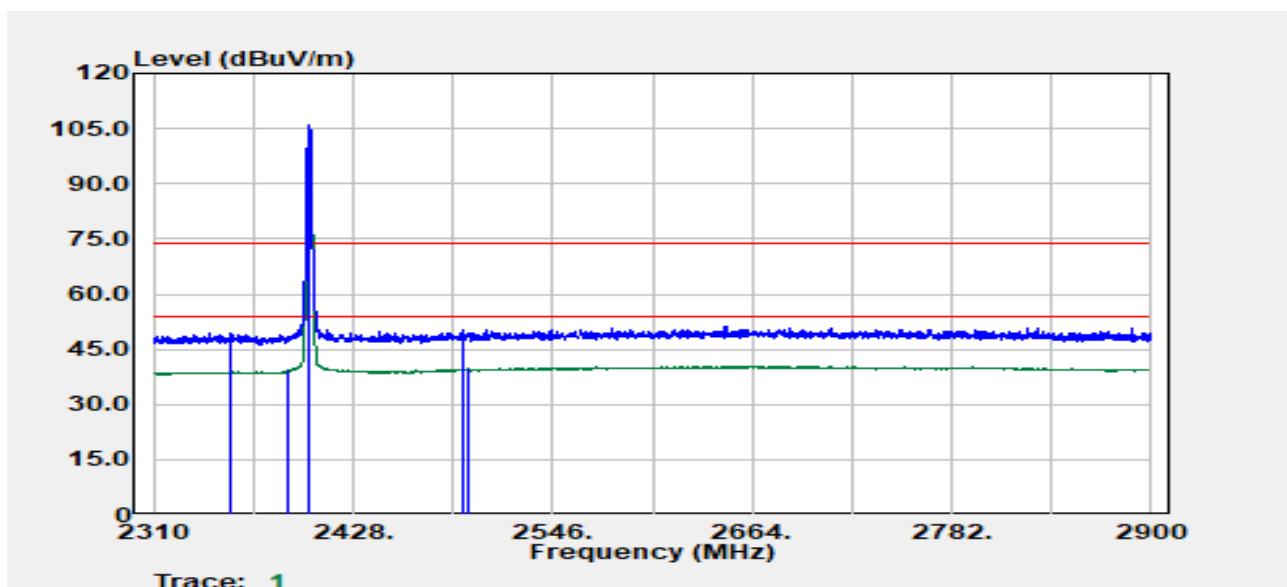


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2367.18	Peak	43.55	6.19	49.73	74.00	-24.27
2389.40	Average	32.85	6.27	39.11	54.00	-14.89
2402.00	Peak	98.00	6.29	104.29	--	--
2402.00	Average	95.18	6.29	101.47	--	--
2489.77	Peak	42.87	6.80	49.67	74.00	-24.33
2494.77	Average	32.69	6.82	39.51	54.00	-14.49

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :Bandedge
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A

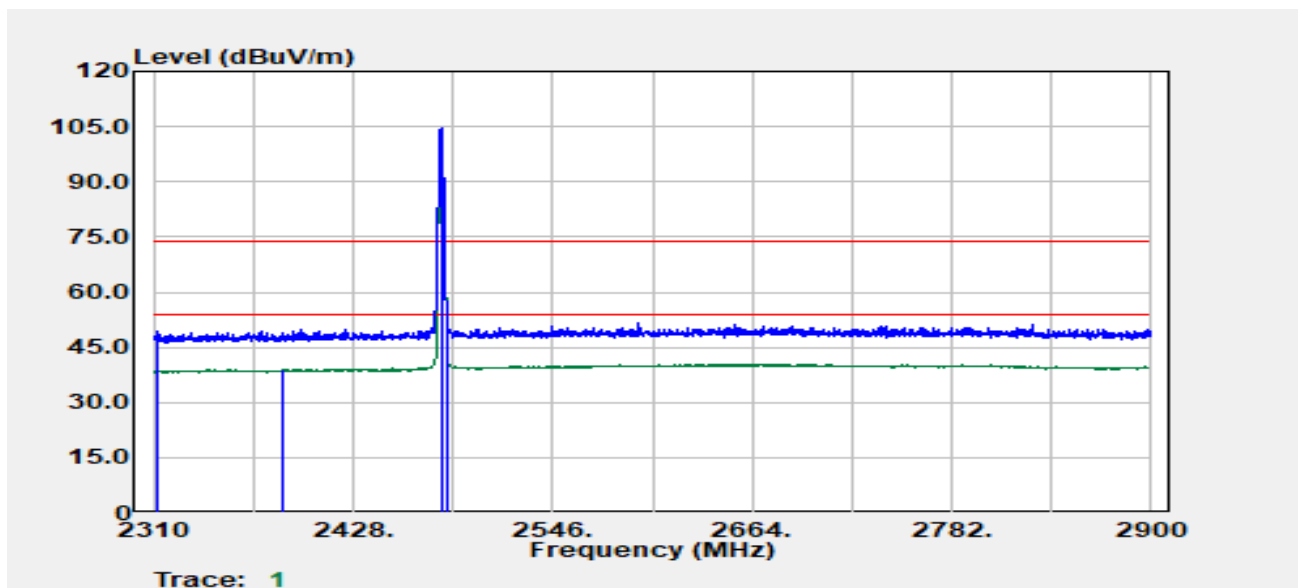


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2355.27	Peak	43.00	6.25	49.25	74.00	-24.75
2390.00	Average	33.02	6.28	39.30	54.00	-14.70
2402.00	Peak	99.52	6.29	105.81	--	--
2402.00	Average	96.74	6.29	103.03	--	--
2493.33	Peak	43.34	6.82	50.16	74.00	-23.84
2495.58	Average	32.80	6.82	39.62	54.00	-14.38

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :Bandedge
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :VERTICAL
Engineer :Ray Li
Test Chamber : 966A

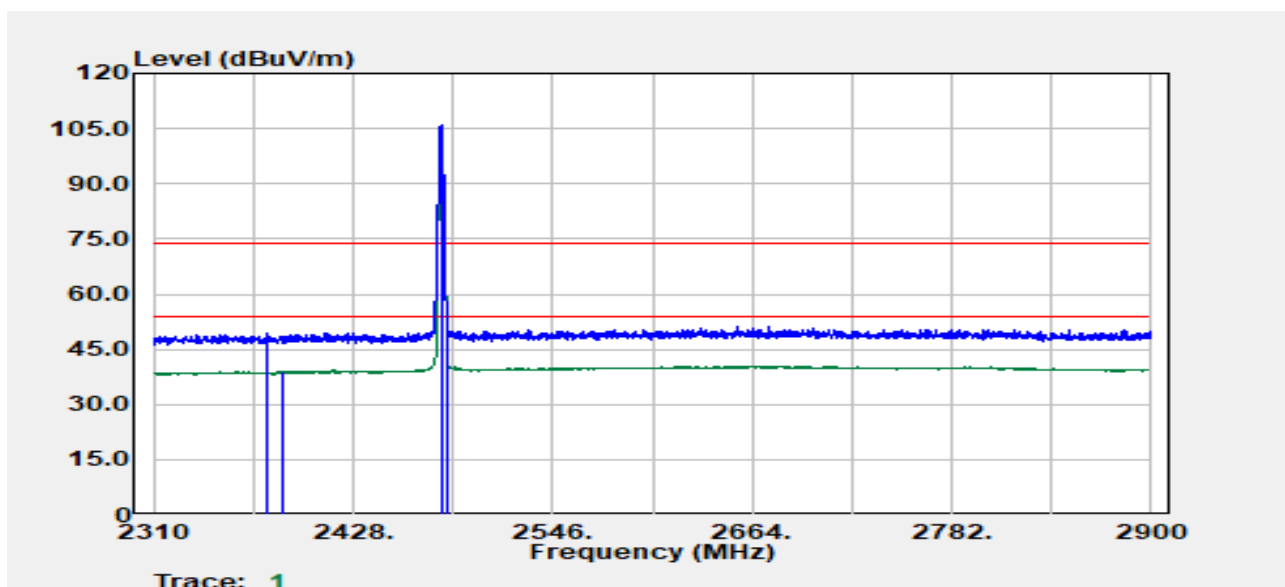


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2312.75	Peak	43.08	6.14	49.21	74.00	-24.79
2387.03	Average	32.65	6.22	38.87	54.00	-15.13
2480.00	Peak	97.93	6.67	104.59	--	--
2480.00	Average	95.18	6.67	101.85	--	--
2483.57	Peak	46.09	6.72	52.80	74.00	-21.20
2483.57	Average	39.52	6.72	46.24	54.00	-7.76

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :Bandedge
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A

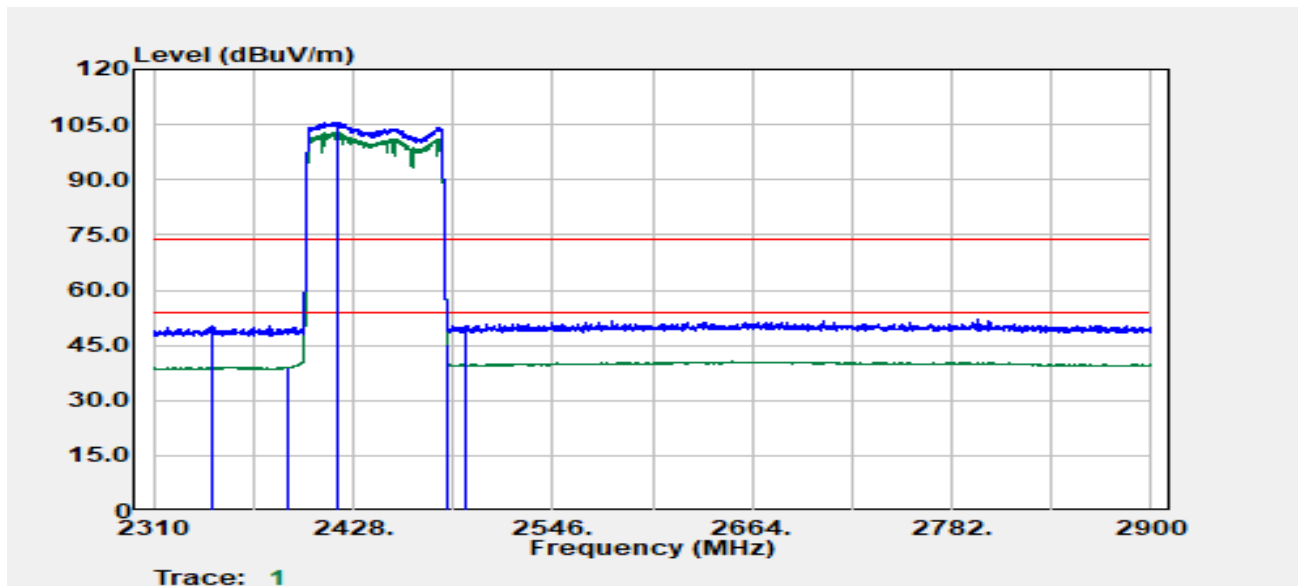


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2377.28	Peak	43.05	6.09	49.15	74.00	-24.85
2386.03	Average	32.73	6.20	38.92	54.00	-15.08
2480.00	Peak	99.26	6.67	105.93	--	--
2480.00	Average	96.48	6.67	103.14	--	--
2483.57	Peak	48.03	6.72	54.75	74.00	-19.25
2483.57	Average	40.59	6.72	47.31	54.00	-6.69

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2402~2480 MHz
Operation Mode :Hopping
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :VERTICAL
Engineer :Ray Li
Test Chamber : 966A

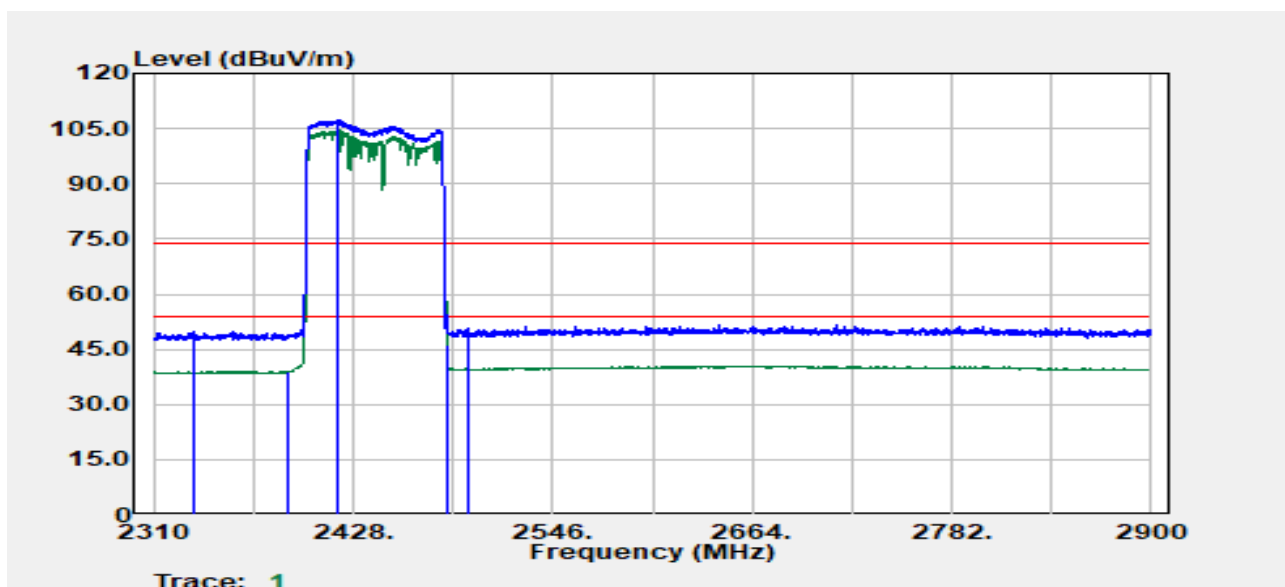


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2345.02	Peak	44.17	6.18	50.35	74.00	-23.65
2390.00	Average	32.69	6.28	38.97	54.00	-15.03
2418.05	Peak	99.27	6.31	105.58	--	--
2418.05	Average	96.48	6.31	102.80	--	--
2483.57	Average	38.75	6.72	45.47	54.00	-8.53
2493.83	Peak	43.39	6.82	50.21	74.00	-23.79

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2402~2480 MHz
Operation Mode :Hopping
EUT Pol :H
Setting :9

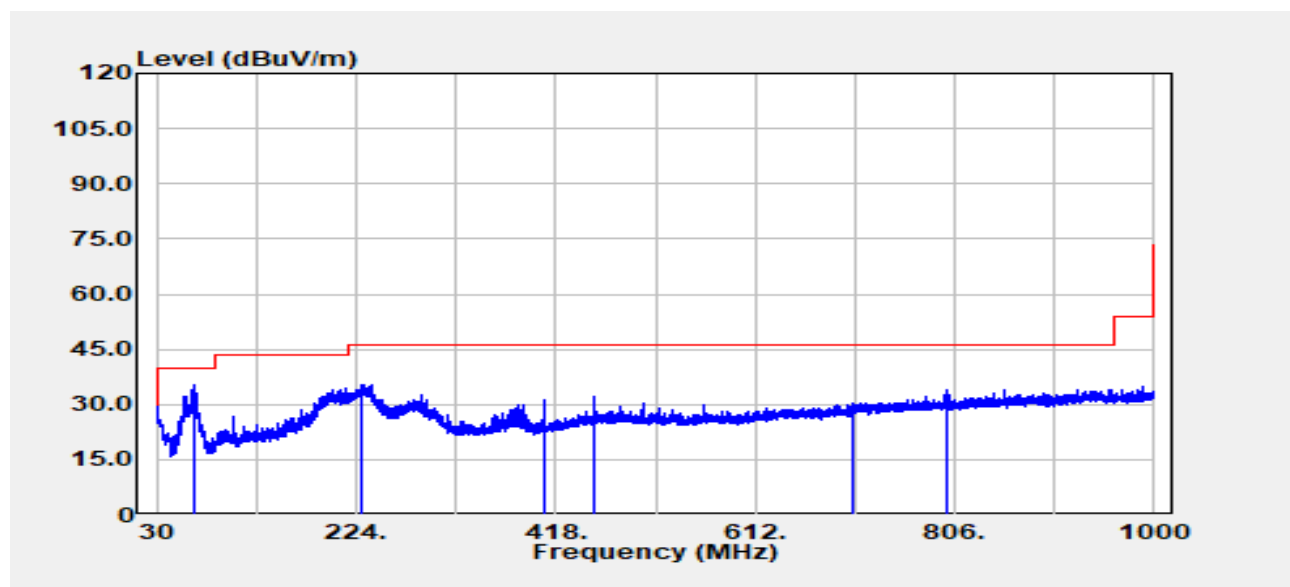
Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Ray Li
Test Chamber : 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
2333.76	Peak	43.63	6.16	49.79	74.00	-24.21
2389.78	Average	32.73	6.28	39.00	54.00	-15.00
2419.05	Peak	100.95	6.31	107.27	--	--
2419.05	Average	98.09	6.31	104.40	--	--
2483.57	Average	39.60	6.72	46.32	54.00	-7.68
2495.83	Peak	43.71	6.82	50.53	74.00	-23.47

TX Test Data

Project No	:TM-2405000413P	Test Date	:2024-07-04
Operation Band	:BT EDR	Temp./Humi.	:24.6/57
Frequency	:2480 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

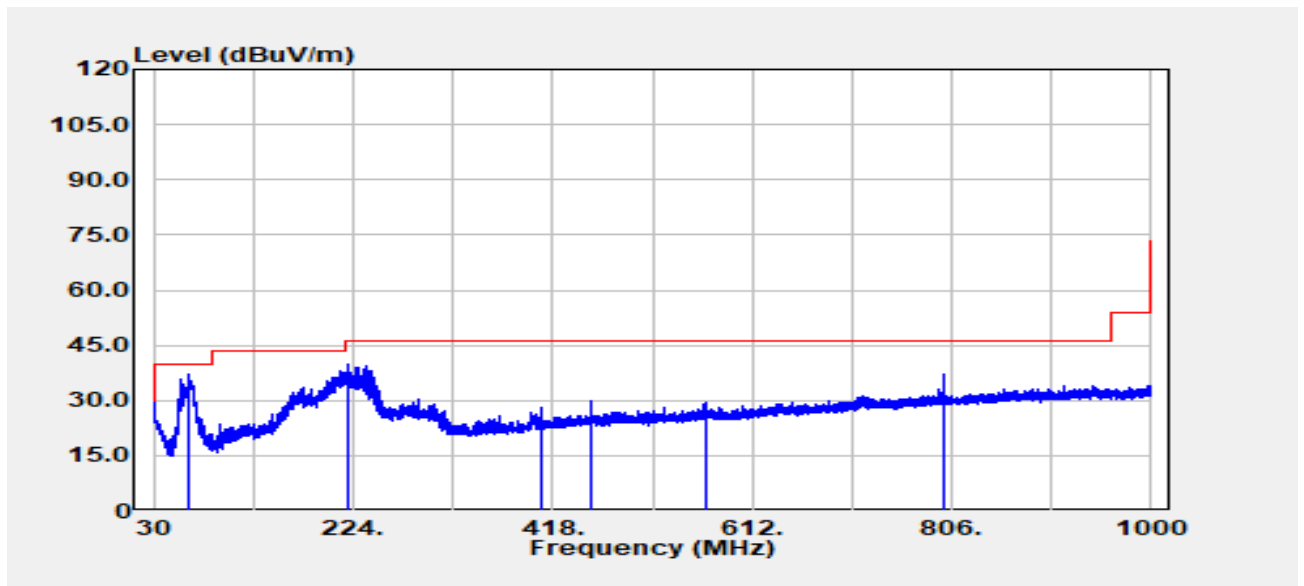


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
66.62	Peak	50.63	-15.38	35.25	40.00	-4.75
229.82	Peak	46.71	-11.28	35.43	46.00	-10.57
408.06	Peak	36.60	-5.50	31.10	46.00	-14.90
455.95	Peak	36.20	-4.21	31.99	46.00	-14.01
707.79	Peak	30.15	0.19	30.34	46.00	-15.66
799.45	Peak	32.47	1.48	33.95	46.00	-12.05

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :TX
EUT Pol :H
Setting :

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :HORIZONTAL
Engineer :Tony Chao
Test Chamber : 966A

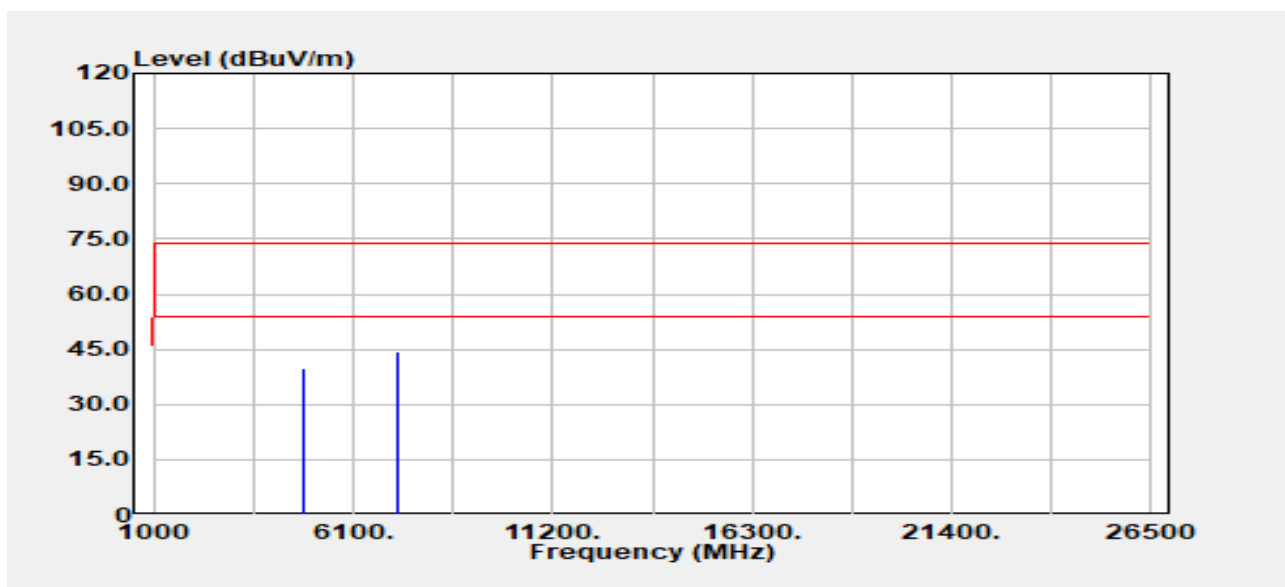


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
64.92	Peak	52.19	-15.26	36.93	40.00	-3.07
218.06	Peak	51.65	-11.74	39.90	46.00	-6.10
408.06	Peak	33.40	-5.50	27.90	46.00	-18.10
455.95	Peak	34.25	-4.21	30.03	46.00	-15.97
566.90	Peak	31.41	-2.14	29.28	46.00	-16.72
799.33	Peak	35.45	1.48	36.93	46.00	-9.07

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2402 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Tony Chao
Test Chamber : 966A

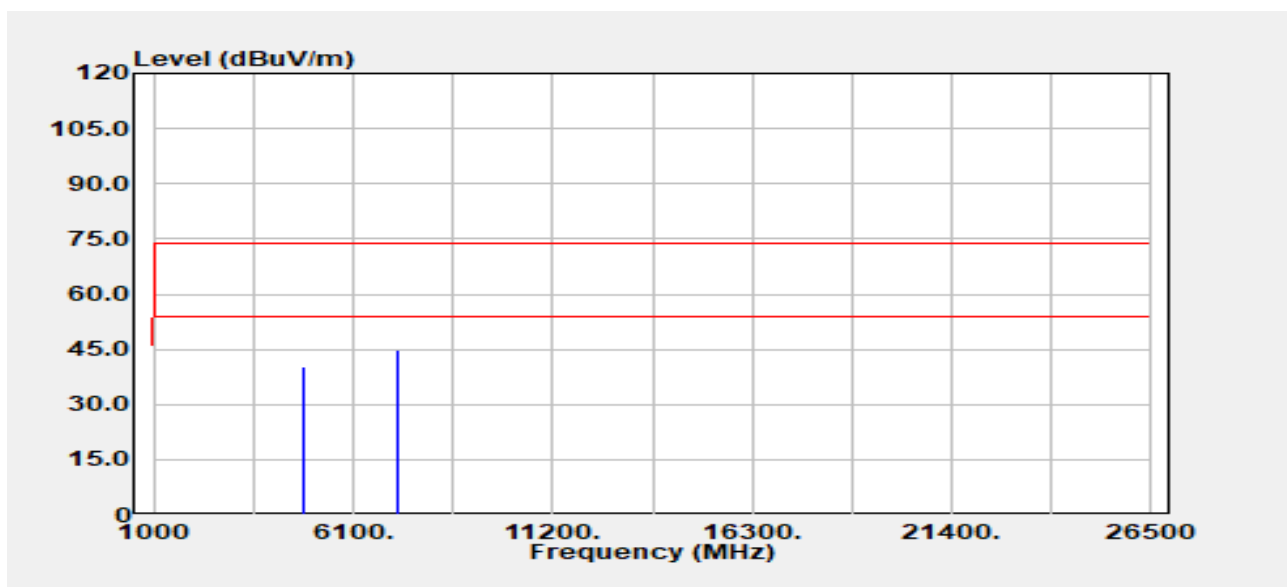


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4804.00	Peak	37.70	2.23	39.93	74.00	-34.07
4804.00	Average	28.40	2.23	30.62	54.00	-23.38
7206.00	Peak	35.18	9.01	44.19	74.00	-29.81
7206.00	Average	26.33	9.01	35.34	54.00	-18.66

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2402 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Horizontal
Engineer :Tony Chao
Test Chamber : 966A

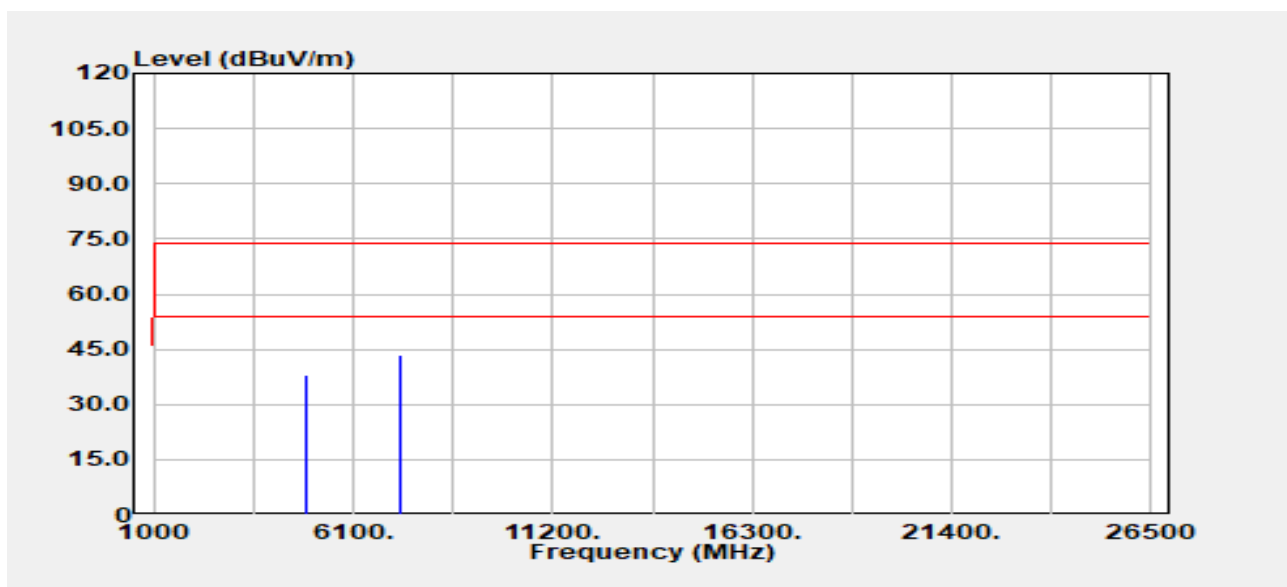


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4804.00	Peak	38.23	2.23	40.46	74.00	-33.54
4804.00	Average	28.53	2.23	30.76	54.00	-23.24
7206.00	Peak	35.94	9.01	44.95	74.00	-29.05
7206.00	Average	26.37	9.01	35.38	54.00	-18.62

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2441 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Tony Chao
Test Chamber : 966A

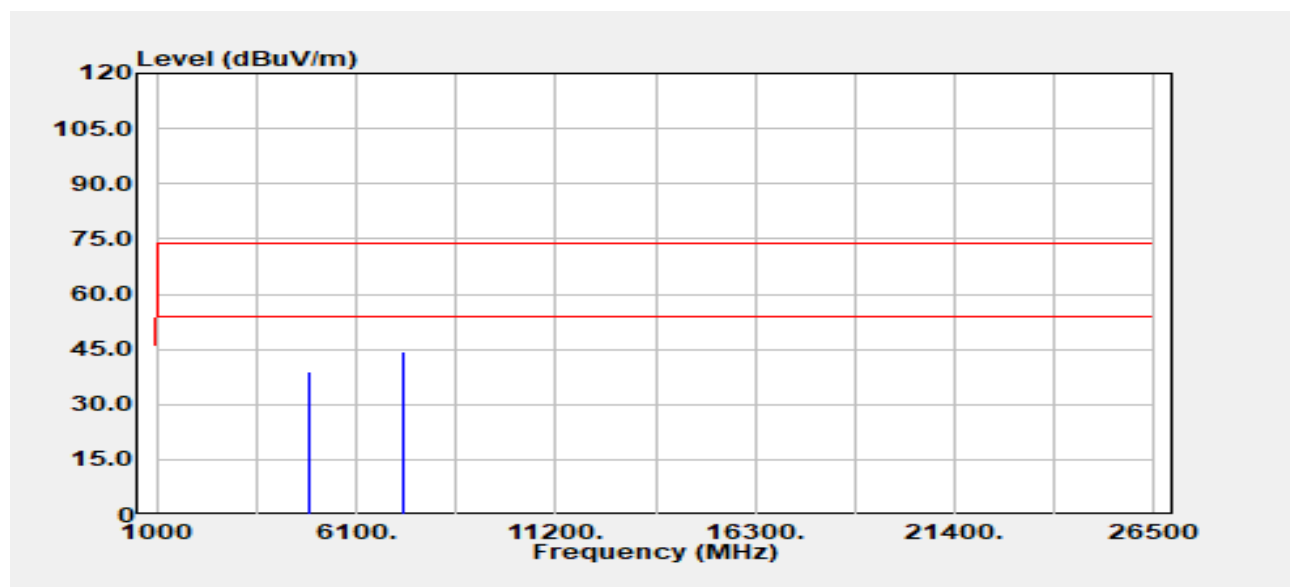


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4882.00	Peak	35.42	2.56	37.98	74.00	-36.02
4882.00	Average	27.23	2.56	29.80	54.00	-24.20
7323.00	Peak	34.46	8.96	43.42	74.00	-30.58
7323.00	Average	26.26	8.96	35.22	54.00	-18.78

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2441 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Horizontal
Engineer :Tony Chao
Test Chamber : 966A

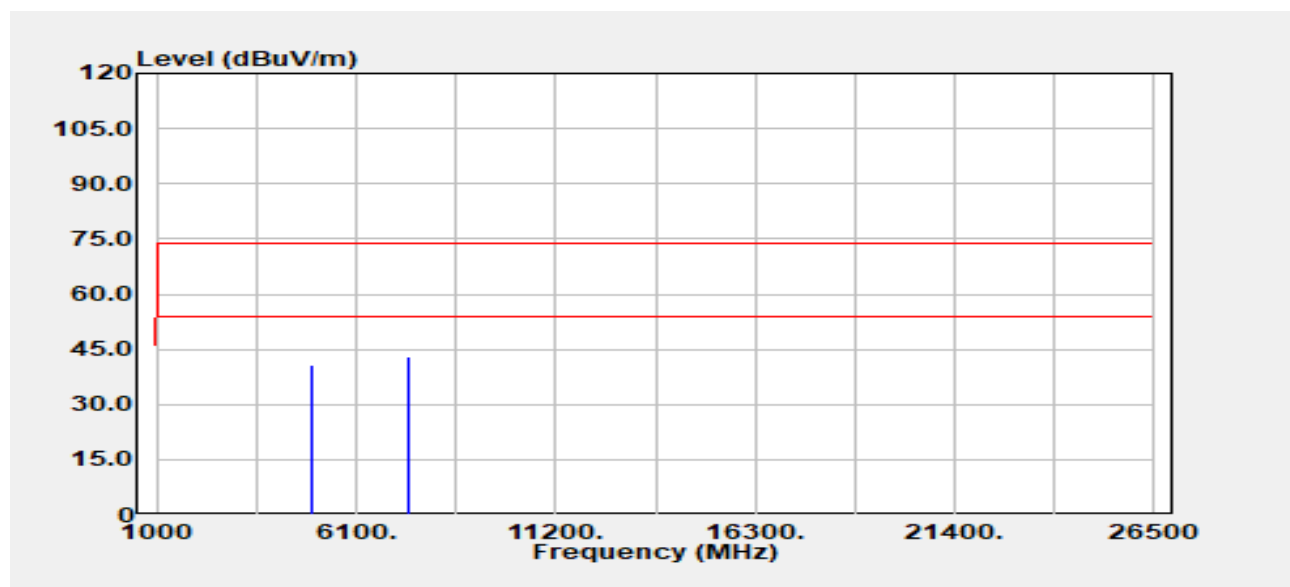


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4882.00	Peak	36.45	2.56	39.01	74.00	-34.99
4882.00	Average	27.29	2.56	29.86	54.00	-24.14
7323.00	Peak	35.33	8.96	44.29	74.00	-29.71
7323.00	Average	26.44	8.96	35.40	54.00	-18.60

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Tony Chao
Test Chamber : 966A

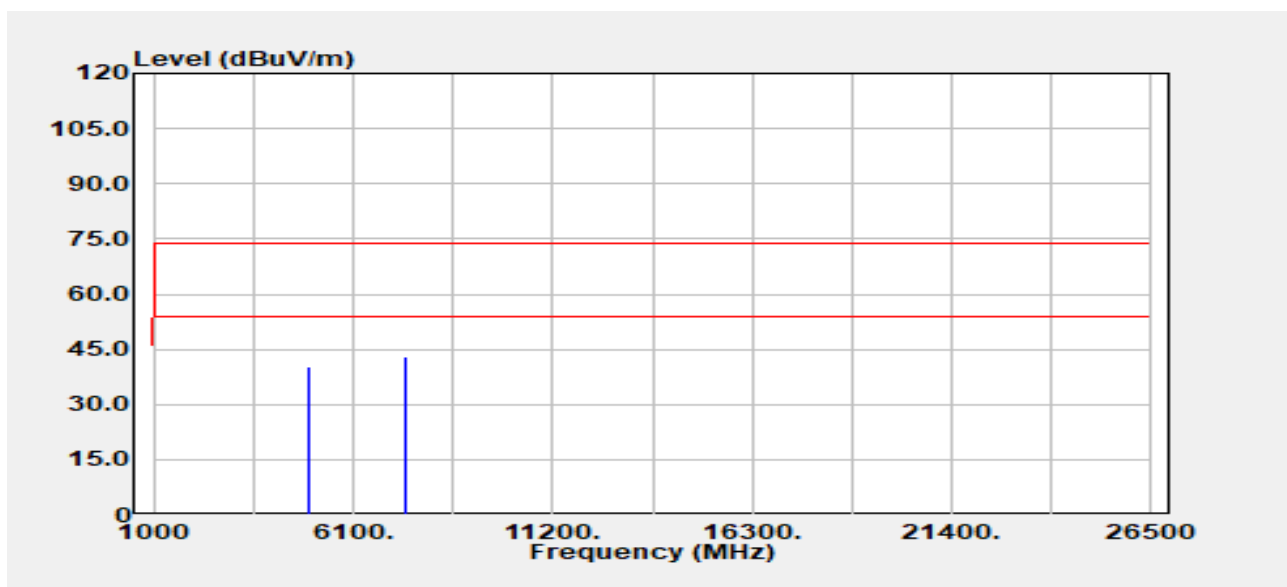


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4960.00	Peak	37.42	3.21	40.64	74.00	-33.36
4960.00	Average	28.12	3.21	31.34	54.00	-22.66
7440.00	Peak	34.26	8.92	43.18	74.00	-30.82
7440.00	Average	26.15	8.92	35.07	54.00	-18.93

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT BR
Frequency :2480 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Horizontal
Engineer :Tony Chao
Test Chamber : 966A

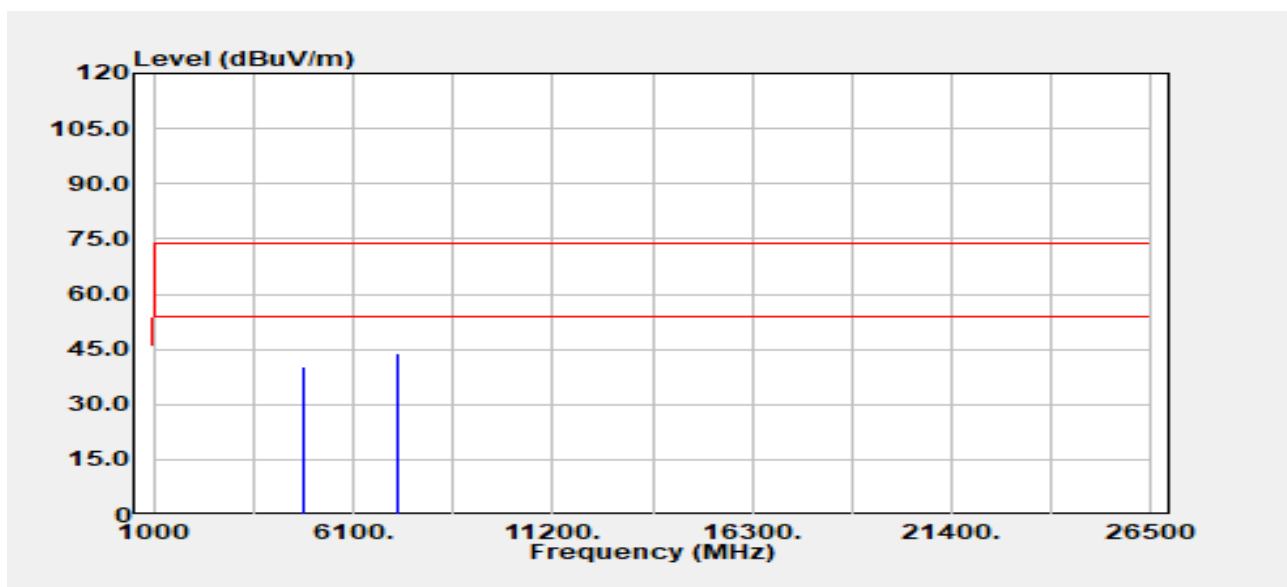


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4960.00	Peak	36.92	3.21	40.13	74.00	-33.87
4960.00	Average	28.37	3.21	31.58	54.00	-22.42
7440.00	Peak	33.95	8.92	42.87	74.00	-31.13
7440.00	Average	26.08	8.92	35.00	54.00	-19.00

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Tony Chao
Test Chamber : 966A

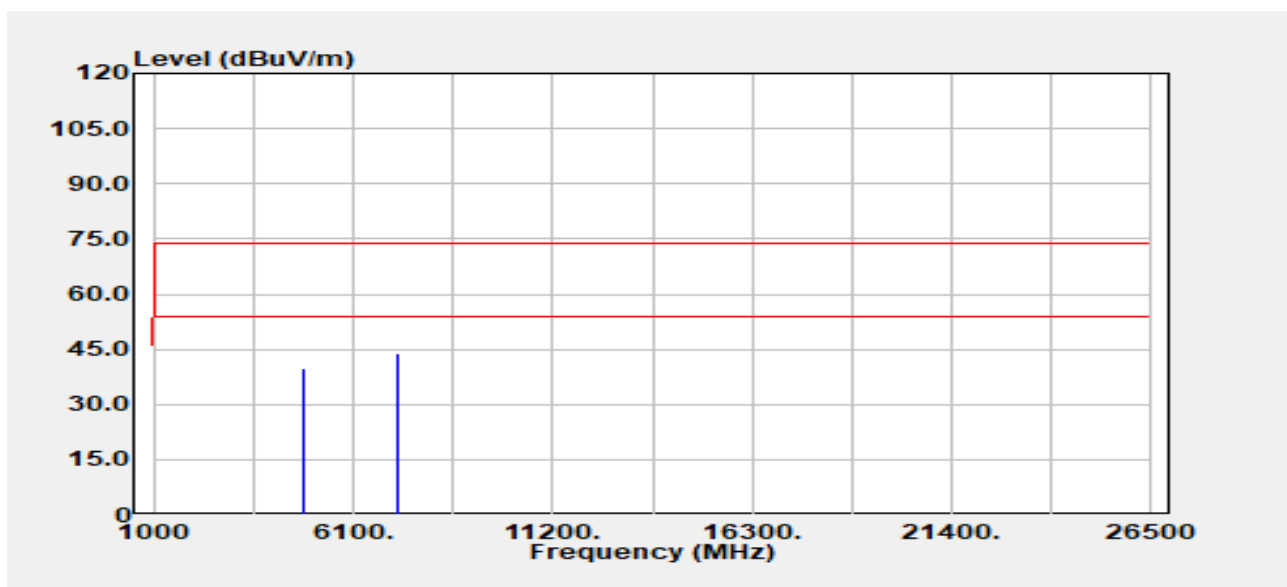


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4804.00	Peak	38.15	2.23	40.38	74.00	-33.62
4804.00	Average	28.58	2.23	30.80	54.00	-23.20
7206.00	Peak	34.92	9.01	43.93	74.00	-30.07
7206.00	Average	26.24	9.01	35.25	54.00	-18.75

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2402 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Horizontal
Engineer :Tony Chao
Test Chamber : 966A

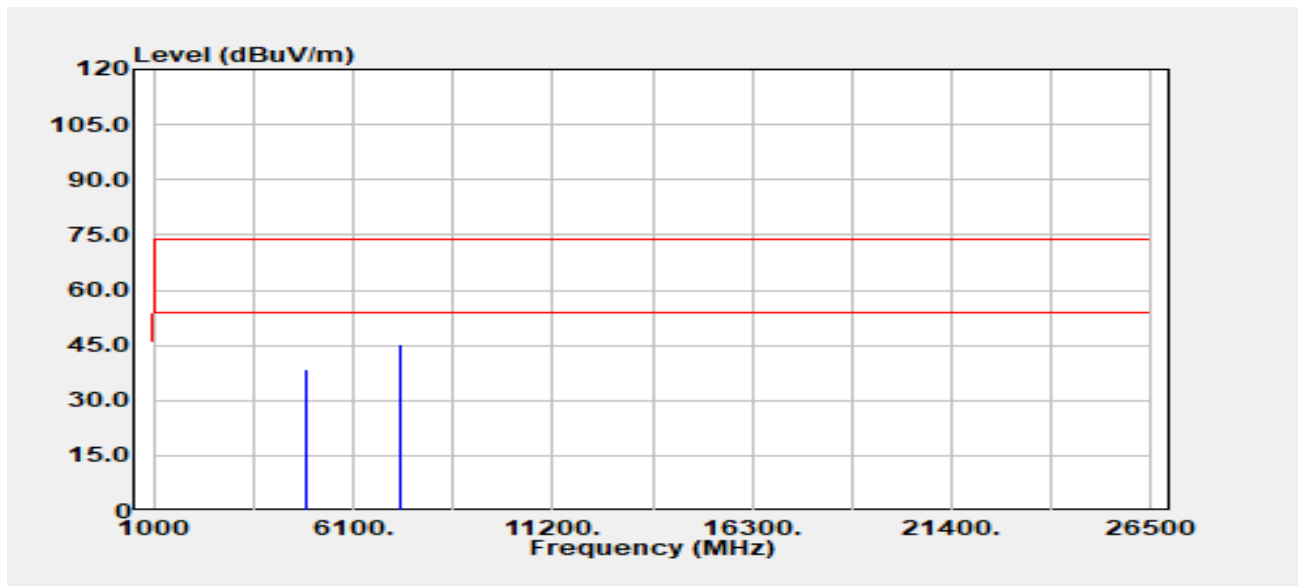


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4804.00	Peak	37.82	2.23	40.05	74.00	-33.95
4804.00	Average	28.11	2.23	30.34	54.00	-23.66
7206.00	Peak	34.99	9.01	44.00	74.00	-30.00
7206.00	Average	26.13	9.01	35.15	54.00	-18.85

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2441 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Tony Chao
Test Chamber : 966A

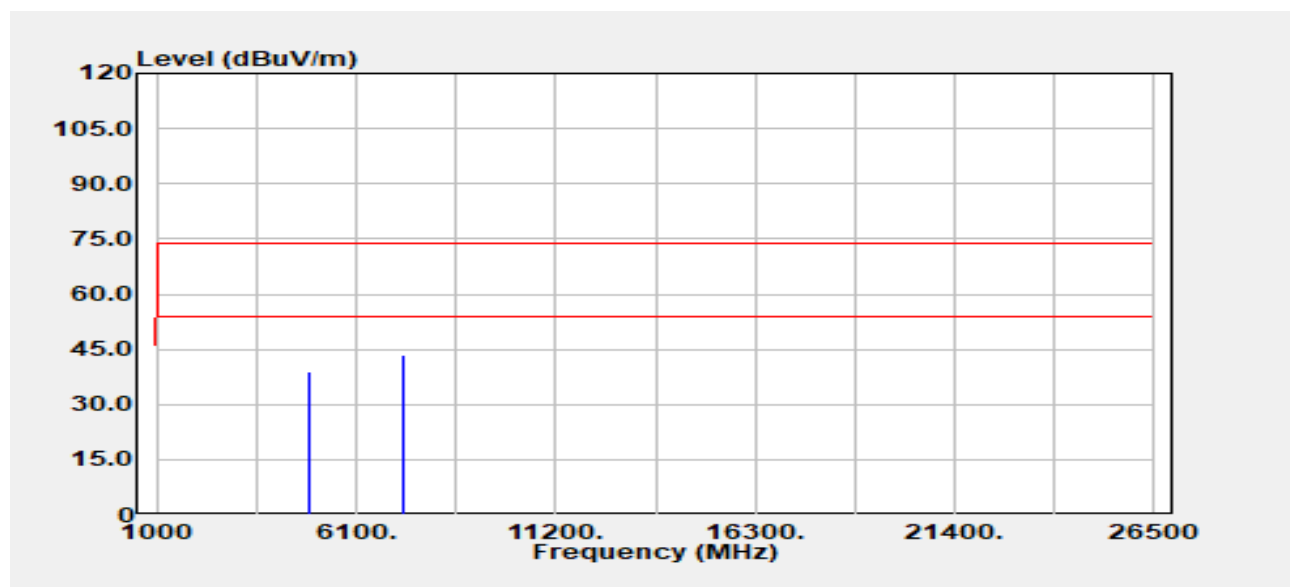


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4882.00	Peak	35.94	2.56	38.50	74.00	-35.50
4882.00	Average	27.19	2.56	29.76	54.00	-24.24
7323.00	Peak	36.14	8.96	45.10	74.00	-28.90
7323.00	Average	26.40	8.96	35.35	54.00	-18.65

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2441 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Horizontal
Engineer :Tony Chao
Test Chamber : 966A

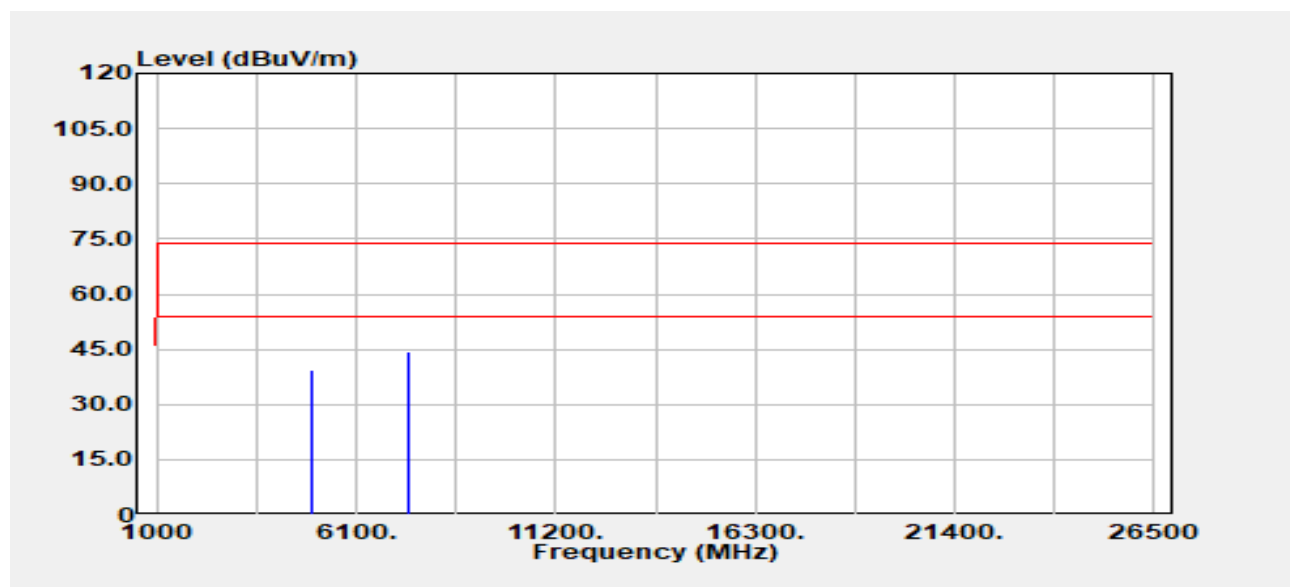


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4882.00	Peak	36.36	2.56	38.92	74.00	-35.08
4882.00	Average	27.18	2.56	29.75	54.00	-24.25
7323.00	Peak	34.34	8.96	43.30	74.00	-30.70
7323.00	Average	26.54	8.96	35.49	54.00	-18.51

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Vertical
Engineer :Tony Chao
Test Chamber : 966A

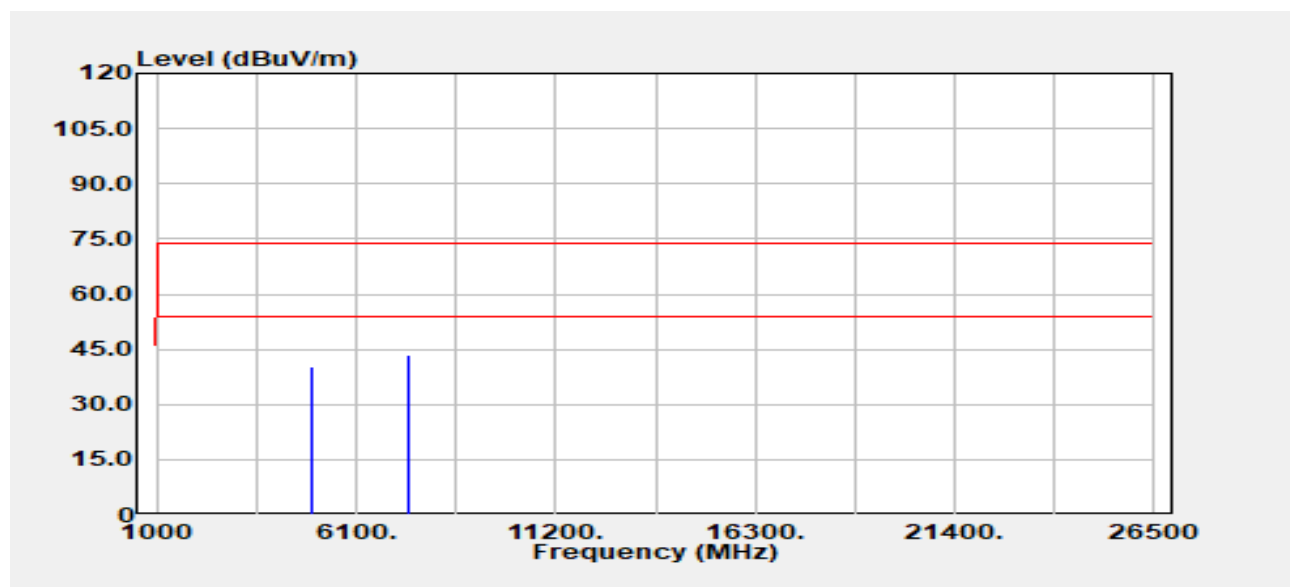


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4960.00	Peak	35.98	3.21	39.19	74.00	-34.81
4960.00	Average	27.89	3.21	31.10	54.00	-22.90
7440.00	Peak	35.65	8.92	44.57	74.00	-29.43
7440.00	Average	26.18	8.92	35.10	54.00	-18.90

Report No.: TMWK2406002101KR

Project No :TM-2405000413P
Operation Band :BT EDR
Frequency :2480 MHz
Operation Mode :TX
EUT Pol :H
Setting :9

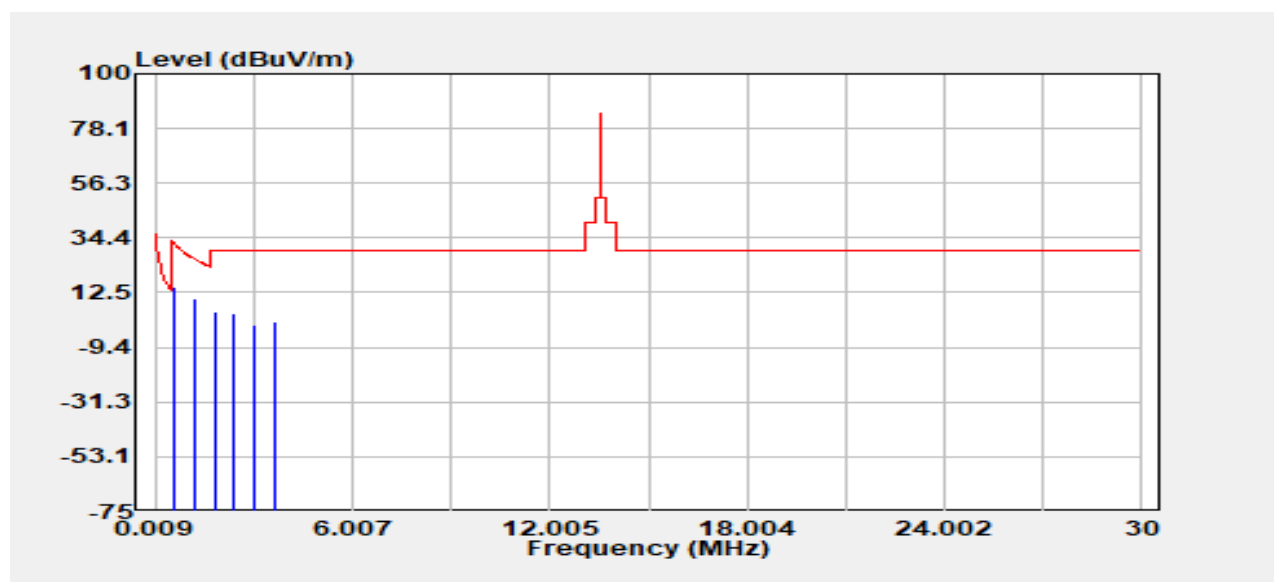
Test Date :2024-07-04
Temp./Humi. :24.6/57
Antenna Pol. :Horizontal
Engineer :Tony Chao
Test Chamber : 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
4960.00	Peak	37.18	3.21	40.40	74.00	-33.60
4960.00	Average	28.00	3.21	31.21	54.00	-22.79
7440.00	Peak	34.42	8.92	43.34	74.00	-30.66
7440.00	Average	26.21	8.92	35.13	54.00	-18.87

Co-location

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	:NFC_BT EDR_LTE Band2 QPSK1,0 20M	Temp./Humi.	:24.6/57
Frequency	:13.56 MHz_2480 MHz_1871 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

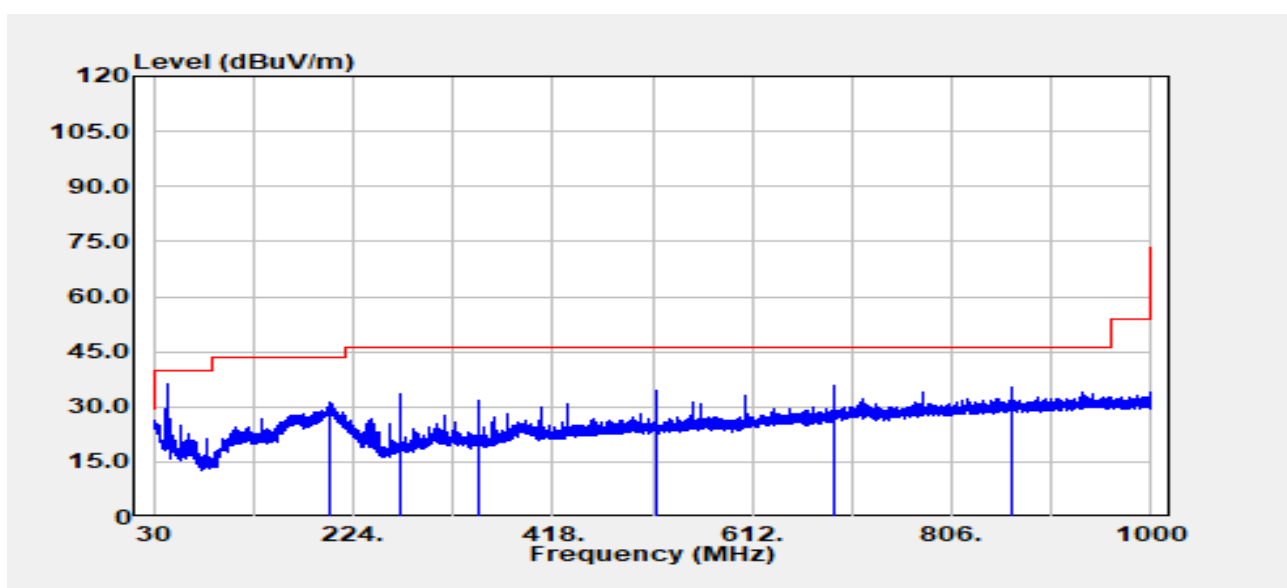


Freq. MHz	Detector Mode	Spectrum Read Level @3m dBμV	Factor @3m dB	Actual FS @3m dBμV/m	Factor @30m&300m dB	Actual FS @30m&300m dBμV/m	Limit dBμV/m	Margin dB
0.60	Peak	35.09	19.53	54.62	-40.00	14.62	31.99	-17.36
1.20	Peak	30.88	19.63	50.52	-40.00	10.52	26.02	-15.50
1.81	Peak	25.08	19.64	44.72	-40.00	4.72	29.54	-24.82
2.41	Peak	24.67	19.65	44.32	-40.00	4.32	29.54	-25.22
3.01	Peak	20.16	19.66	39.82	-40.00	-0.18	29.54	-29.72
3.62	Peak	21.26	19.75	41.01	-40.00	1.01	29.54	-28.53

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Report No.: TMWK2406002101KR

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	:NFC_BT EDR_LTE Band2	Temp./Humi.	:24.6/57
	QPSK1,0 20M		
Frequency	:13.56 MHz_2480	Antenna Pol.	:VERTICAL
	MHz_1871 MHz		
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

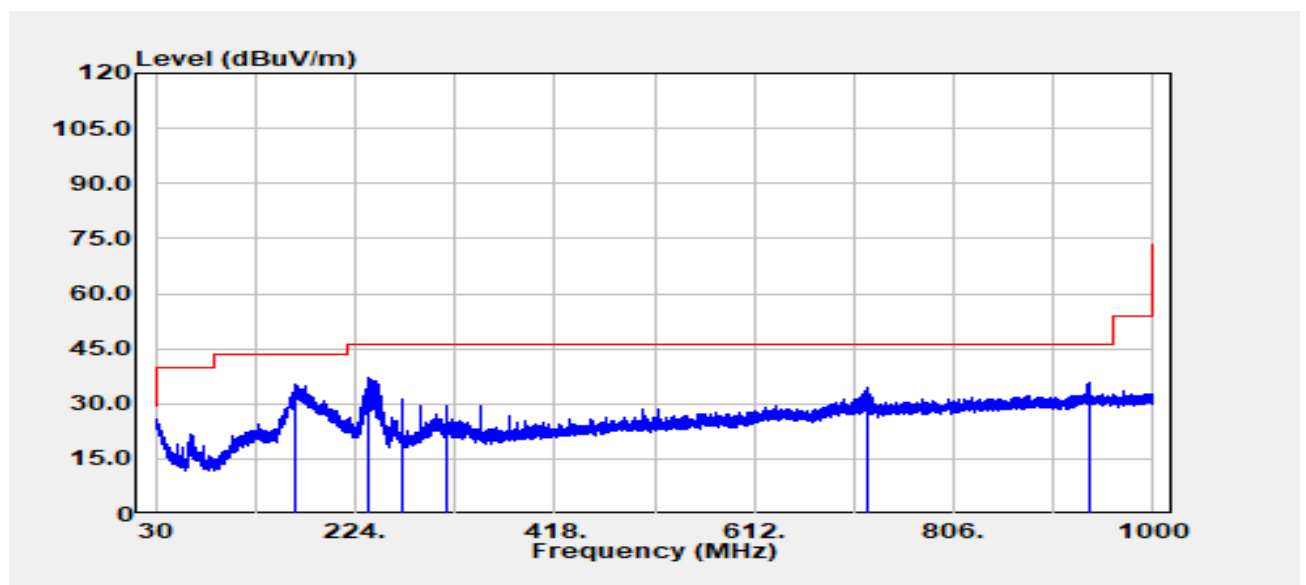


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBUV/m	Limit dBUV/m	Margin dB
200.10	Peak	41.00	-9.77	31.23	43.50	-12.27
270.00	Peak	42.37	-9.02	33.35	46.00	-12.65
345.60	Peak	39.42	-7.53	31.89	46.00	-14.11
518.40	Peak	37.75	-3.17	34.58	46.00	-11.42
691.20	Peak	36.18	-0.28	35.91	46.00	-10.09
864.00	Peak	32.55	2.60	35.15	46.00	-10.85

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Report No.: TMWK2406002101KR

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	:NFC_BT EDR_LTE Band2	Temp./Humi.	:24.6/57
	QPSK1,0 20M		
Frequency	:13.56 MHz_2480	Antenna Pol.	:HORIZONTAL
	MHz_1871 MHz		
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

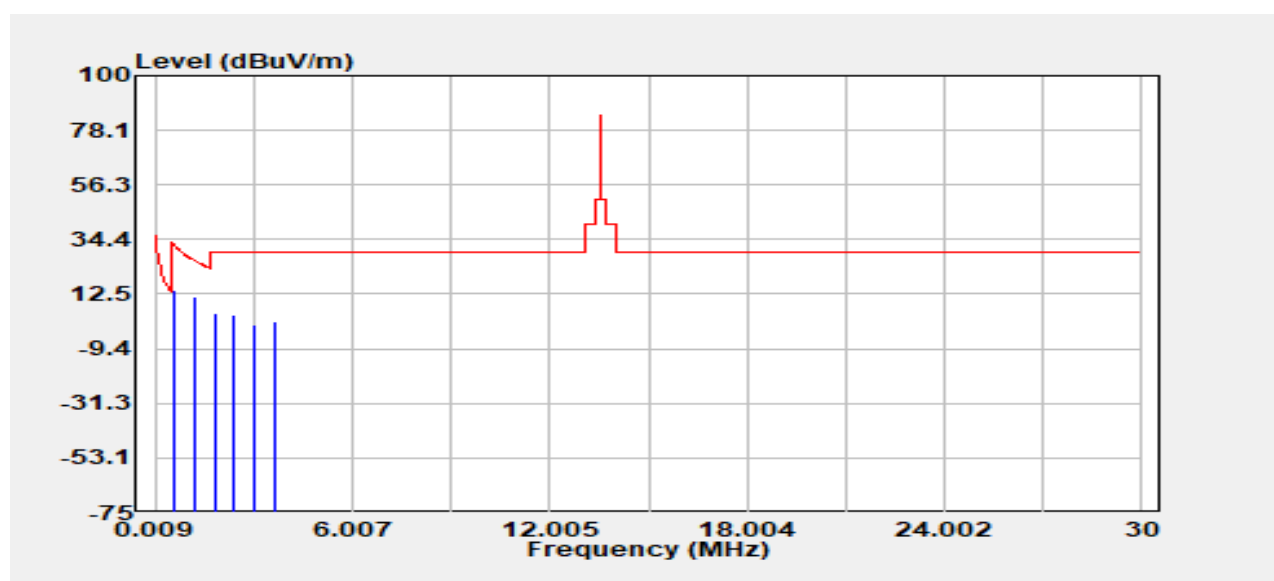


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
166.20	Peak	46.18	-10.84	35.34	43.50	-8.16
237.80	Peak	47.85	-10.73	37.13	46.00	-8.87
270.00	Peak	40.10	-9.02	31.08	46.00	-14.92
312.00	Peak	37.71	-8.26	29.45	46.00	-16.55
722.20	Peak	34.05	0.36	34.41	46.00	-11.59
937.50	Peak	31.76	3.79	35.55	46.00	-10.45

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Report No.: TMWK2406002101KR

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	:NFC_BT EDR_LTE Band13 QPSK1,0 10M	Temp./Humi.	:24.6/57
Frequency	:13.56 MHz_2480 MHz_777.6 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

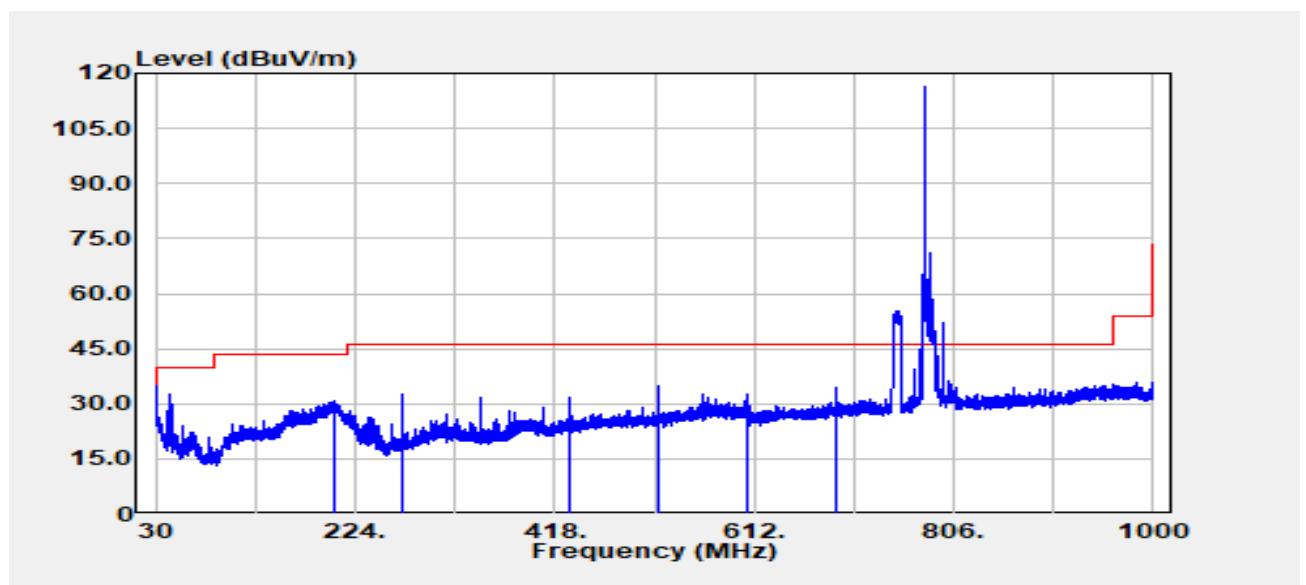


Freq. MHz	Detector Mode	Spectrum Read Level @3m dBμV	Factor @3m dB	Actual FS @3m dBUV/m	Factor @30m&300m dB	Actual FS @30m&300m dBUV/m	Limit dBUV/m	Margin dB
0.60	Peak	34.35	19.53	53.88	-40.00	13.88	31.99	-18.10
1.21	Peak	31.58	19.63	51.22	-40.00	11.22	25.97	-14.76
1.81	Peak	25.19	19.64	44.83	-40.00	4.83	29.54	-24.71
2.41	Peak	24.81	19.65	44.46	-40.00	4.46	29.54	-25.08
3.01	Peak	20.35	19.66	40.00	-40.00	0.00	29.54	-29.54
3.61	Peak	22.01	19.75	41.76	-40.00	1.76	29.54	-27.78

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Report No.: TMWK2406002101KR

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	:NFC_BT EDR_LTE Band13 QPSK1,0 10M	Temp./Humi.	:24.6/57
Frequency	:13.56 MHz_2480 MHz_777.6 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

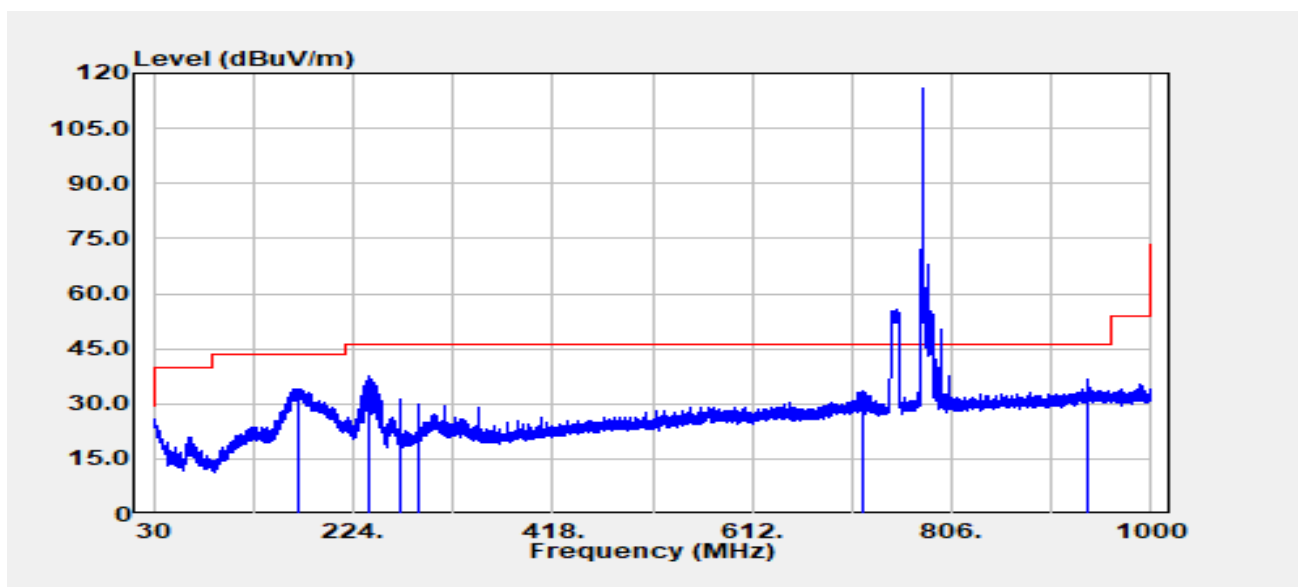


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBUV/m	Limit dBUV/m	Margin dB
203.30	Peak	42.08	-11.10	30.98	43.50	-12.52
270.00	Peak	41.83	-9.02	32.81	46.00	-13.19
432.00	Peak	36.52	-4.81	31.71	46.00	-14.29
518.40	Peak	37.83	-3.17	34.65	46.00	-11.35
604.80	Peak	34.76	-2.03	32.73	46.00	-13.27
691.20	Peak	34.82	-0.28	34.54	46.00	-11.46

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Report No.: TMWK2406002101KR

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	:NFC_BT EDR_LTE Band13 QPSK1,0 10M	Temp./Humi.	:24.6/57
Frequency	:13.56 MHz_2480 MHz_777.6 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Ray Li
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

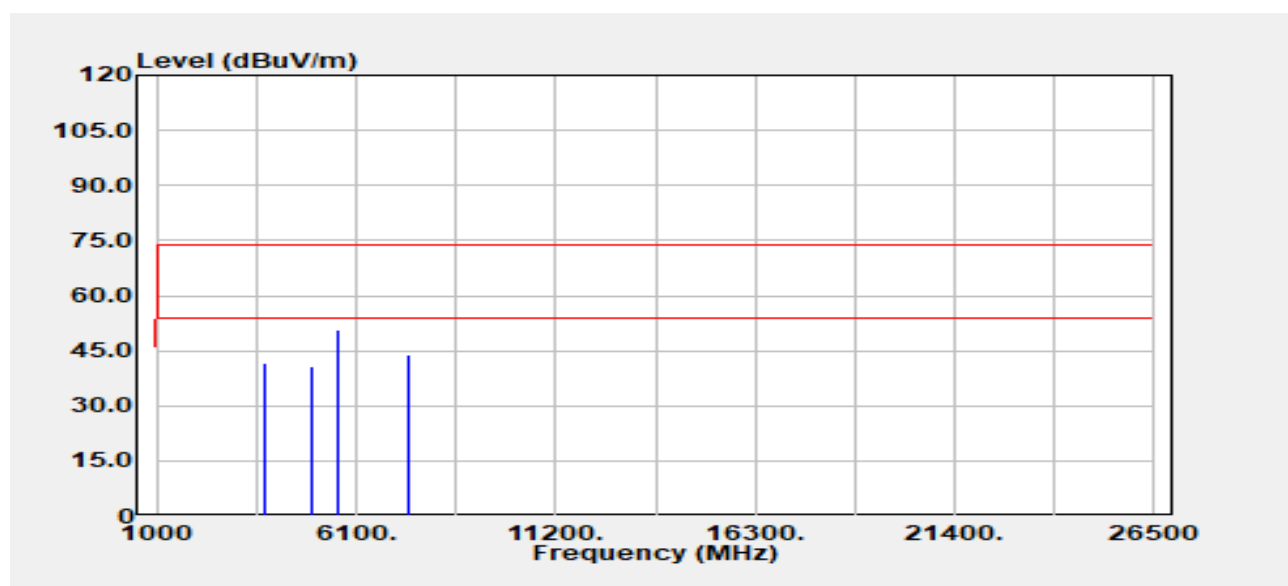


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
171.30	Peak	45.17	-11.05	34.11	43.50	-9.39
240.00	Peak	48.25	-10.60	37.65	46.00	-8.35
270.00	Peak	40.07	-9.02	31.05	46.00	-14.95
288.00	Peak	38.54	-8.76	29.78	46.00	-16.22
720.00	Peak	33.32	0.36	33.68	46.00	-12.32
937.50	Peak	32.66	3.79	36.45	46.00	-9.55

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Report No.: TMWK2406002101KR

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	: NFC_BT EDR_LTE Band2 QPSK1,0_20M	Temp./Humi.	:24.6/57
Frequency	:2480_1871 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

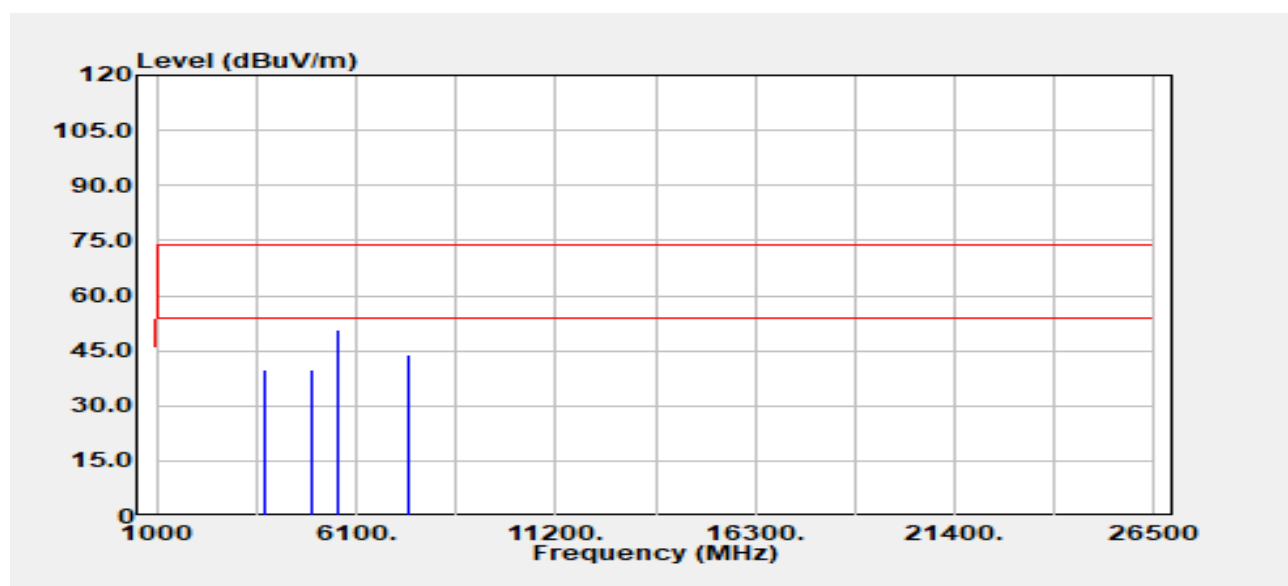


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
3742.00	Peak	41.39	0.21	41.60	82.20	-40.60
4960.00	Peak	37.64	3.21	40.85	74.00	-33.15
4960.00	Average	28.26	3.21	31.48	54.00	-22.53
5613.00	Peak	45.78	4.88	50.65	82.20	-31.55
7440.00	Peak	34.79	8.92	43.71	74.00	-30.29
7440.00	Average	26.15	8.92	35.07	54.00	-18.94

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Report No.: TMWK2406002101KR

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	: NFC_BT EDR_LTE Band2 QPSK1,0_20M	Temp./Humi.	:24.6/57
Frequency	:2480_1871 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

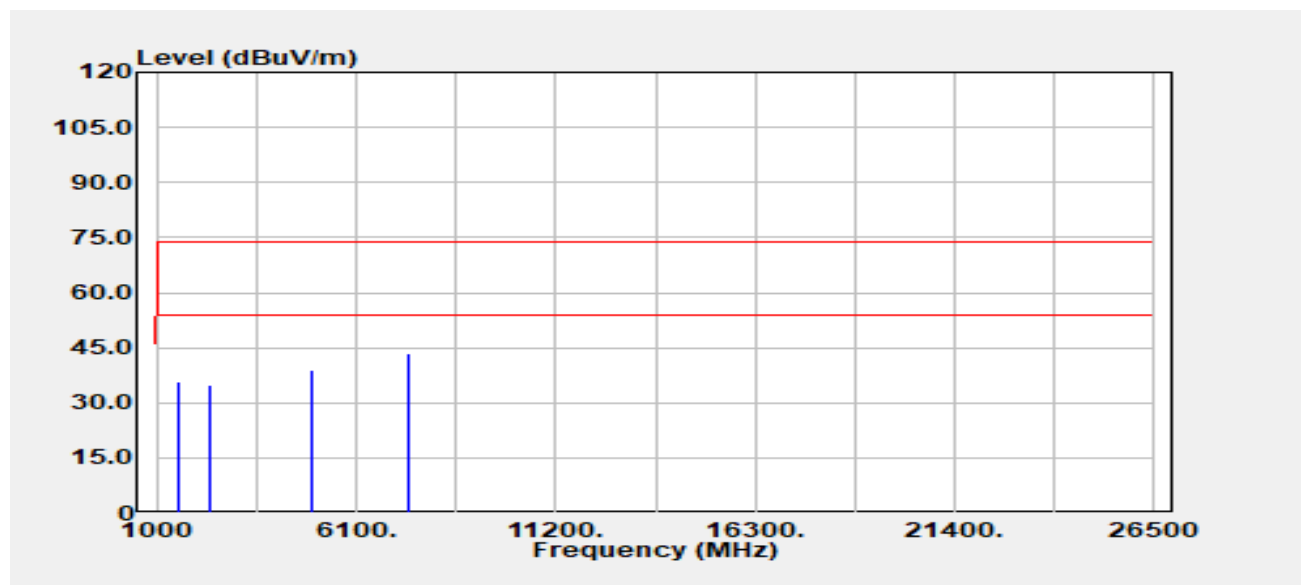


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
3742.00	Peak	39.55	0.21	39.76	82.20	-42.44
4960.00	Peak	36.84	3.21	40.05	74.00	-33.95
4960.00	Average	28.16	3.21	31.37	54.00	-22.63
5613.00	Peak	45.89	4.88	50.77	82.20	-31.43
7440.00	Peak	34.98	8.92	43.90	74.00	-30.10
7440.00	Average	26.35	8.92	35.27	54.00	-18.73

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Report No.: TMWK2406002101KR

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	: NFC_BT EDR_LTE Band13 QPSK1,0_10M	Temp./Humi.	:24.6/57
Frequency	:2480_777.6 MHz	Antenna Pol.	:VERTICAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A
Setting	:		

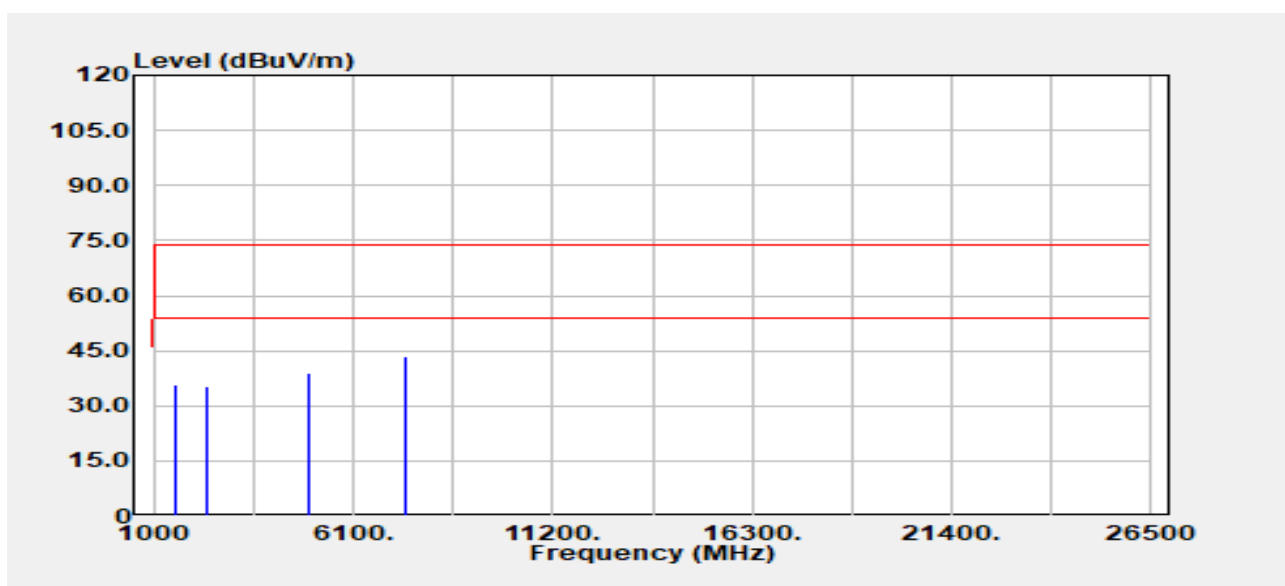


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
1555.20	Peak	43.06	-7.24	35.82	82.20	-46.38
2332.80	Peak	38.37	-3.61	34.76	82.20	-47.44
4960.00	Peak	35.86	3.21	39.08	74.00	-34.92
4960.00	Average	26.35	3.21	29.56	54.00	-24.44
7440.00	Peak	34.48	8.92	43.40	74.00	-30.60
7440.00	Average	25.74	8.92	34.66	54.00	-19.34

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

Report No.: TMWK2406002101KR

Project No	:TM-2405000413P	Test Date	:2024-07-05
Operation Band	: NFC_BT EDR_LTE Band13 QPSK1,0_10M	Temp./Humi.	:24.6/57
Frequency	:2480_777.6 MHz	Antenna Pol.	:HORIZONTAL
Operation Mode	:TX	Engineer	:Tony Chao
EUT Pol	:H	Test Chamber	: 966A
Setting	:		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
1555.20	Peak	42.84	-7.24	35.60	82.20	-46.60
2332.80	Peak	38.90	-3.61	35.29	82.20	-46.91
4960.00	Peak	35.84	3.21	39.05	74.00	-34.95
4960.00	Average	26.15	3.21	29.37	54.00	-24.63
7440.00	Peak	34.60	8.92	43.52	74.00	-30.48
7440.00	Average	25.74	8.92	34.66	54.00	-19.34

Note: The highest signals which over limit are WWAN co-location fundamental and harmonic signals. But it meets the signal's proprietary standards.

- End of Test Report -