1	POCE VI.0	Report No.: POCE231218006RL001
-	PÔCE Technolugy	pu <sup>s</sup> pu
	-	
	-CF	RF TEST REPORT
		For PO
	BC	DSS INTERNATIONAL GROUP
		Product Name: Soundbar
		PSX36, BRT18A, BRT26A, BRT36A, BRT17SLR,
		BRT25SLR, BRT37SLR, BRT18RGB, BRT26RGB, BRT36RGB, SB18BRGB, SB26BRGB, PSX18, PSX26,
		SB18, SB26
		DOCL DOCL
	Report Reference No.	: POCE231218006RL001
	FCC ID	: 2BBEX-PSX36
		PO PO
	Applicant's Name	: BOSS INTERNATIONAL GROUP
	Address	Room 809-813, Building A, Reith Center, No.9030 Shennan Road, Nanshan District, Shenzhen, China
		put put
	Testing Laboratory	: Shenzhen POCE Technology Co., Ltd.
	Address	101-102, H5 Building & 1/F, Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China
	Test Specification Standard	47 CFR Part 15.247 ANSI C63.10-2013 & KDB 558074 D01 15.247 Meas Guidance v05r02
		E CE
	Date of Receipt	: December 18, 2023
	Date of Test	: December 18, 2023 to December 25, 2023
	Data of Issue	: December 25, 2023
	Result	: Pass
		produced except in full, without the written approval of Shenzhen POCE s document may be altered or revised by Shenzhen POCE Testing Technology
		all be noted in the revision section of the document. The test results in the
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		OCE
		H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China Tel: +86-755-23010613 E-mail: service@POCE-lab.com Page 1 of 71



# **Revision History Of Report**

Version	Description	REPORT No.	Issue Date
V1.0	Original	POCE231218006RL001	December 25, 2023
			-

#### NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by: Keren Huang Keren Huang / Test Engineer Supervised by: Stone from from Stone Yin / Project Engineer

Approved by: Tomchen Tom Chen / Manager

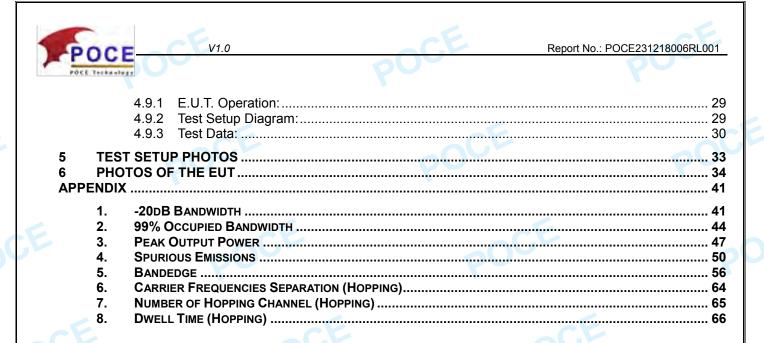


101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China Web: http://www.POCE-lab.com Tel: +86-755-23010613 E-mail: service@POCE-lab.com Page 2 of 71

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4.4.1       E.U.T. Operation:       17         4.4.2       Test Setup Diagram:       17         4.4.3       Test Data:       17         4.4.3       Test Data:       17         4.4.3       Test Data:       17         4.4.3       Test Data:       17         4.5       DWELL TIME.       18         4.5.1       E.U.T. Operation:       19         4.5.2       Test Setup Diagram:       16         4.5.3       Test Data:       20         4.6       EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS       21         4.6.1       E.U.T. Operation:       21         4.6.2       Test Data:       21         4.6.3       Test Data:       21         4.6.3       Test Data:       21         4.6.3       Test Data:       21         4.7       BAND EDGE EMISSIONS (RADIATED)       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Data:       22         4.7.3       Test Data:       22         4.7.4       E.U.T. Operation:       22         4.7.5       Test Data:       22         4.7.6       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHZ) <td></td> <td>4 4</td> <td></td> <td></td>		4 4		
4.4.2       Test Setup Diagram:       17         4.4.3       Test Data:       17         4.4.3       Test Data:       17         4.5       DWELL TIME.       18         4.5.1       E.U.T. Operation:       18         4.5.2       Test Setup Diagram:       19         4.5.3       Test Data:       20         4.6       EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS       21         4.6.1       E.U.T. Operation:       21         4.6.2       Test Setup Diagram:       21         4.6.3       Test Data:       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       22         4.7.4       E.U.T. Operation:       22         4.7.5       Test Setup Diagram:       22         4.7.6       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHZ)       26         4.8.1       E.U.T. Opera		7.7		
4.4.3       Test Data:       17         4.5       DWELL TIME.       19         4.5.1       E.U.T. Operation:       19         4.5.2       Test Setup Diagram:       19         4.5.3       Test Data:       20         4.6       EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS       21         4.6.1       E.U.T. Operation:       21         4.6.2       Test Setup Diagram:       21         4.6.3       Test Data:       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       22         4.7.4       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHZ)       22         4.8.1       E.U.T. Operation:       22         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.3       Test Data:				
4.5.1       E.U.T. Operation:       19         4.5.2       Test Setup Diagram:       19         4.5.3       Test Data:       20         4.6       EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS       21         4.6.1       E.U.T. Operation:       21         4.6.2       Test Setup Diagram:       21         4.6.3       Test Data:       21         4.7       BAND EDGE EMISSIONS (RADIATED)       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Data:       22         4.7.3       Test Data:       22         4.7.4       Feduency BANDS (BELOW 1GHz)       22         4.7.3       Test Data:       22         4.7.4       Test Setup Diagram:       26         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.3       Test Data:			4.4.3 Test Data:	17
4.5.2       Test Setup Diagram:       19         4.5.3       Test Data:       20         4.6       EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS       21         4.6.1       E.U.T. Operation:       21         4.6.2       Test Setup Diagram:       21         4.6.3       Test Data:       21         4.7       BAND EDGE EMISSIONS (RADIATED)       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       23         4.8       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHz)       22         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.4       Test Data:       26         4.8.3       Test Data:<		4.5	DWELL TIME	19
4.5.2       Test Setup Diagram:       19         4.5.3       Test Data:       20         4.6       EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS       21         4.6.1       E.U.T. Operation:       21         4.6.2       Test Setup Diagram:       21         4.6.3       Test Data:       21         4.7       BAND EDGE EMISSIONS (RADIATED)       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       23         4.8       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHz)       22         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.4       Test Data:       26         4.8.3       Test Data:<				
4.6       EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS       21         4.6.1       E.U.T. Operation:       21         4.6.2       Test Setup Diagram:       21         4.6.3       Test Data:       21         4.6.3       Test Data:       21         4.7       BAND EDGE EMISSIONS (RADIATED)       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       23         4.7.3       Test Data:       23         4.7.3       Test Data:       23         4.7.3       Test Data:       23         4.7.4       E.U.T. Operation:       24         4.7.5       Test Data:       23         4.8.1       E.U.T. Operation:       26         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26 <t< td=""><td></td><td></td><td></td><td></td></t<>				
4.6.1       E.U.T. Operation:       21         4.6.2       Test Setup Diagram:       21         4.6.3       Test Data:       22         4.7.4       BAND EDGE EMISSIONS (RADIATED)       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       23         4.7.3       Test Data:       23         4.8.1       E.U.T. Operation:       26         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         4.01-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen,				
4.6.2       Test Setup Diagram:       21         4.6.3       Test Data:       21         4.6.3       Test Data:       21         4.7       BAND EDGE EMISSIONS (RADIATED)       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       22         4.7.3       Test Data:       23         4.8       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHz)       26         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       28         101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China		4.6		
4.6.3 Test Data:       21         4.7 BAND EDGE EMISSIONS (RADIATED)       22         4.7.1 E.U.T. Operation:       22         4.7.2 Test Setup Diagram:       22         4.7.3 Test Data:       22         4.7.3 Test Data:       23         4.8 EMISSIONS IN FREQUENCY BANDS (BELOW 1GHz)       25         4.8.1 E.U.T. Operation:       26         4.8.2 Test Setup Diagram:       26         4.8.3 Test Data:       26         4.8.3 Test Data:       26         4.8.4 EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         4.8.3 Test Data:       26         4.8.3 Test Data:       26         4.8.4 EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         4.8.3 Test Data:       26         4.9 EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26      <			4.6.1 E.U.T. Operation:	21
4.7       BAND EDGE EMISSIONS (RADIATED)       22         4.7.1       E.U.T. Operation:       22         4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       22         4.7.3       Test Data:       23         4.8       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHz)       25         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.4       Test Data:       26         4.8.5       Test Data:       26         4.8.3       Test Data:       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         4.101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Sh				
4.7.1       E.U.T. Operation:       22         4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       23         4.8       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHz)       25         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.8.4       Test Data:       26         4.8.5       Test Data:       26         4.8.6       Test Data:       26         4.8.7       Test Data:       26         4.8.8       Test Data:       26         4.8.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China				
4.7.2       Test Setup Diagram:       22         4.7.3       Test Data:       23         4.7.4       Test Data:       23         4.7.5       Test Data:       23         4.8       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHz)       26         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.8.3       Test Data:       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China       26		4.7		
4.7.3 Test Data:				
4.8       EMISSIONS IN FREQUENCY BANDS (BELOW 1GHz)       25         4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China       26				
4.8.1       E.U.T. Operation:       26         4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)       26         101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China       26		10		
4.8.2       Test Setup Diagram:       26         4.8.3       Test Data:       26         4.9       EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz).       28         101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China       28		4. <b>õ</b>		
4.8.3 Test Data:				
4.9 EMISSIONS IN FREQUENCY BANDS (ABOVE 1GHz)				
101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China		4.9		
				1



101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China Web: http://www.POCE-lab.com Tel: +86-755-23010613 E-mail: service@POCE-lab.com Page 4 of 71



# V1.0

# 1 TEST SUMMARY

# 1.1 Test Standards

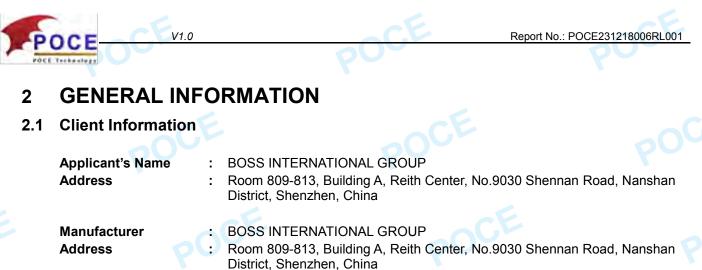
The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

Item	Method	Requirement	Result
Antenna requirement	1	47 CFR 15.203	Pass
Occupied Bandwidth	ANSI C63.10-2013, section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.215(c)	Pass
Maximum Conducted Output Power	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(1)	Pass
Channel Separation	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)	Pass
Number of Hopping Frequencies	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Dwell Time	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(1)(iii)	Pass
Emissions in non-restricted frequency bands	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

#### 1.2 Summary of Test Result

Note: 1.N/A -this device(EUT) is not applicable to this testing item 2. RF-conducted test results including cable loss.



# 2.2 Description of Device (EUT)

Description of Devi	
Product Name:	Soundbar
Sample No.:	Q231218012-1
Model/Type reference:	PSX36
Series Model:	BRT18A, BRT26A, BRT36A, BRT17SLR, BRT25SLR, BRT37SLR, BRT18RGB,
E	BRT26RGB, BRT36RGB, SB18BRGB, SB26BRGB, PSX18, PSX26, SB18, SB26
Model Difference:	The appearance size is different, everything else is the same, such as BOM, PCB, these differences will not affect RF performance
Trade Mark:	BOSS BOSS Planet Audio
Product Description:	Soundbar
Power Supply:	DC12.0V
Operation Frequency:	2402-2480MHz
Number of Channels:	79
Modulation Type:	GFSK, π/4 DQPSK,
Antenna Type:	PCB ANTENNA
Antenna Gain:	-0.58dBi
Bluetooth Version:	5.0
Hardware Version:	V1.0
Software Version:	V1.0.2.2

Operation	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	21 🧹	2422 MHz	41	2442 MHz 🧹	61	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	62	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	63	2464 MHz
4	2405 MHz 「	24	2425 MHz	44	2445 MHz	64	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	65	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	66	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	67	2468 MHz
8	2409 MHz	28	2429 MHz	48	2449 MHz	68	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	69	2470 MHz
10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
12	2413 MHz	32	2433 MHz	52	2453 MHz	72	2473 MHz
13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz

 101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China

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POCE Technology

14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
20	2421 MHz	40	2441 MHz	60	2461 MHz		

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

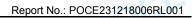
Test channel	Frequency (MHz)
<ul> <li>Lowest channel</li> </ul>	2402MHz
Middle channel	2441MHz
Highest channel	2480MHz

# 2.3 Description of Test Modes

V1.0

No	Title	Description		
TM1	TX-GFSK (Non-Hopping)	· · · · · · · · · · · · · · · · · · ·		
TM2	TX-Pi/4DQPSK (Non- Hopping)	Keep the EUT in continuously transmitting mode with Pi/4DQPSK modulation type		
ТМ3	TX-GFSK (Hopping)	Keep the EUT in continuously transmitting mode with GFSK Hopping type		
TM4	TX-Pi/4DQPSK (Hopping)	Keep the EUT in continuously transmitting mode with Pi/4DQPSK Hopping type		
Descrip	otion			
Throu engi	ial software is used. ugh engineering command int neering command: *#*#36466 r method:			
Special	software:			
FCC Assist 1	.0.2.2			
帮助(出)				
串口设置				
串口 [00	11 (通信端口) ★			
波特率				
数据位 8 校验位 Non	xe v			
校验位 Non 停止位 1	*			
· 序Ⅱ12 Ⅰ 流控NoF	/low +			
10 11 (A14)	17			
		POCE		
	BLE			
and the second second				
Transmit_P	ower U Type 1-DH1 T			
	ping OFF *			
	ypes FnS 🔹			
		POCE		
	Send configuration			
		演除日志		
	N 4			

V1.0 Report No.: POCE231218006RL001						231218006RL001		
	2.4	-	f Support Units			E		
	-	Title	Man	ufacturer		Model No.	Se	erial No.
		Battery (DC12	2V)	Camel		DC12V		1
EL.	Maxi Char Num Dwe	upied Bandwidth mum Conducted nnel Separation ber of Hopping F Il Time	00			POCE		P
	S.	Equipment	Manufacturer	Model No		Inventory No	Cal Date	Cal Due Date
	RF	Test Software	TACHOY	RTS-01		V2.0.0.0	<u> </u>	/
	Н	igh Pass filter	ZHINAN	OQHPF1-M1 18G-224	.5-	6210075	1	/
	F	Power divider	MIDEWEST	PWD-2533	}	SMA-79	2023-05-11	2026-05-10
		DC power	HP	66311B		38444359	1	1
	R	F Sensor Unit	Tachoy Information Technology(she nzhen) Co.,Ltd.	TR1029-2		000001	<b>P</b> 90	/
	co	ideband radio ommunication tester	R&S	CMW500	E	113410	2023-06-13	2024-06-12
	١	Vector signal generator	Keysight	N5181A		MY48180415	2023-11-09	2024-11-08
		gnal generator	Keysight	N5182A		MY50143455	2023-12-28	2024-12-27
	Spe	ectrum Analyzer	Keysight	N9020A		MY53420323	2023-12-28	2024-12-27



Band edge emissions Emissions in frequence		GHz)			
Emissions in frequence					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	/	MF-7802	/	/	1
High Pass filter	ZHINAN	OQHPF1-M1.5- 18G-224	6210075	1	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2021-07-05	2024-07-04
Cable(LF)#2	Schwarzbeck	1	/	2023-02-27	2024-02-26
Cable(LF)#1	Schwarzbeck		1	2023-02-27	2024-02-26
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2023-02-28	2024-02-27
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2023-02-27	2024-02-26
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2023-06-13	2024-06-12
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2023-06-13	2024-06-12
Wideband radio communication tester	R&S	CMW500	113410	2023-06-13	2024-06-12
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2023-06-14	2024-06-13
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2023-05-21	2025-05-20
Test Receiver	R&S	ESCI	102109	2023-06-13	2024-06-12

# 2.6 Statement Of The Measurement Uncertainty

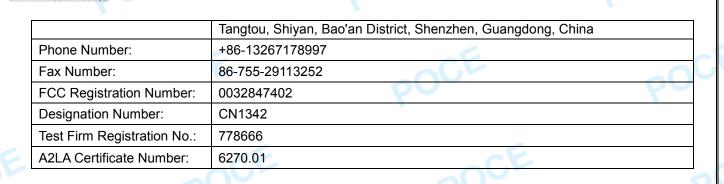
V1.0

Test Item	Measurement Uncertainty
Occupied Bandwidth	±3.63%
RF conducted power	±0.733dB
Duty cycle	±3.1%
Conducted Spurious emissions	±1.98dB
Radiated Emission (Above 1GHz)	±5.46dB
Radiated Emission (Below 1GHz)	±5.79dB
Note: (1) This uncertainty represents an expanded uncertain	inty expressed at approximately the 95%

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the confidence level using a coverage factor of k=2.

# 2.7 Authorizations

Company Name:	Shenzhen POCE Technology Co., Ltd.					
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China					
Phone Number:	+86-13267178997					
Fax Number:	86-755-29113252					
Identification of the Responsible	le Testing Location					
Company Name:	Shenzhen POCE Technology Co., Ltd.					
Address:	101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park,					
101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China         Web: http://www.POCE-lab.com       Tel: +86-755-23010613         E-mail: service@POCE-lab.com       Page 9 of 71						



#### 2.8 Announcement

(1) The test report reference to the report template version v0.

V1 0

(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

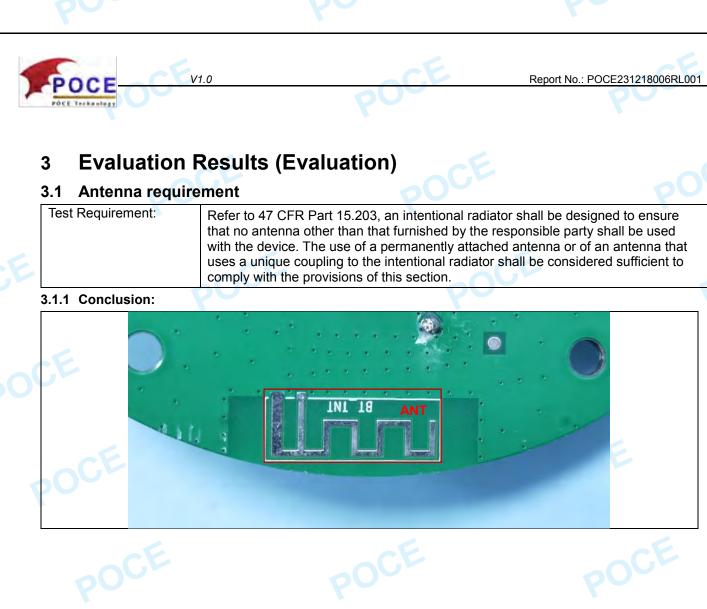
(3) The test report is invalid if there is any evidence and/or falsification.

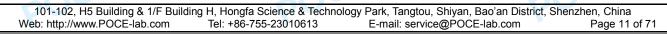
(4) This document may not be altered or revised in any way unless done so by POCE and all revisions are duly noted in the revisions section.

(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

(6) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant. the laboratory is not responsible for the accuracy of the information provided by the client. When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

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# 4 Radio Spectrum Matter Test Results (RF)

V1.0

# 4.1 Occupied Bandwidth

4.1 Occupied Ballu	WIGHT	
Test Requirement:	47 CFR 15.215(c)	
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the a provisions to the general emission limits, as contained in §§ 15.217 the and in subpart E of this part, must be designed to ensure that the 20 d of the emission, or whatever bandwidth may otherwise be specified in rule section under which the equipment operates, is contained within the band designated in the rule section under which the equipment is operation.	rough 15.257 B bandwidth the specific he frequency
Test Method:	ANSI C63.10-2013, section 7.8.7, For occupied bandwidth measureme procedure in 6.9.2. KDB 558074 D01 15.247 Meas Guidance v05r02	ents, use the
Procedure:	<ul> <li>a) The spectrum analyzer center frequency is set to the nominal EUT of center frequency. The span range for the EMI receiver or spectrum an be between two times and five times the OBW.</li> <li>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of the OBW and video bandwidth (VBW) shall be approximately three times otherwise specified by the applicable requirement.</li> <li>c) Set the reference level of the instrument as required, keeping the size</li> </ul>	alyzer shall 1% to 5% of nes RBW,
	exceeding the maximum input mixer level for linear operation. In generation of the spectral envelope shall be more than [10 log (OBW/RBW)] below reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specific tolerances.	ral, the peak w the fied
	<ul> <li>e) The dynamic range of the instrument at the selected RBW shall be dB below the target "-xx dB down" requirement; that is, if the requirement measuring the -20 dB OBW, the instrument noise floor at the selected be at least 30 dB below the reference value.</li> <li>f) Set detection mode to peak and trace mode to max hold.</li> <li>g) Determine the reference value: Set the EUT to transmit an unmodule</li> </ul>	ent calls for RBW shall
	or modulated signal, as applicable. Allow the trace to stabilize. Set the analyzer marker to the highest level of the displayed trace (this is the r value). h) Determine the "-xx dB down amplitude" using [(reference value) - > Alternatively, this calculation may be made by using the marker-delta f instrument. i) If the reference value is determined by an unmodulated carrier, then	reference (x]. function of the
	modulation ON, and either clear the existing trace or start a new trace spectrum analyzer and allow the new trace to stabilize. Otherwise, the step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the frequency of the envelope of the spectral display, such that each mark slightly below the "-xx dB down amplitude" determined in step h). If a n	on the trace from highest er is at or
	below this "-xx dB down amplitude" value, then it shall be as close as this value. The occupied bandwidth is the frequency difference between markers. Alternatively, set a marker at the lowest frequency of the environment spectral display, such that the marker is at or slightly below the "-xx dE amplitude" determined in step h). Reset the marker-delta function and marker to the other side of the emission until the delta marker amplitude	possible to en the two elope of the down move the de is at the
CE	<ul> <li>same level as the reference marker amplitude. The marker-delta freque at this point is the specified emission bandwidth.</li> <li>k) The occupied bandwidth shall be reported by providing plot(s) of the instrument display; the plot axes and the scale units per division shall labeled. Tabular data may be reported in addition to the plot(s).</li> </ul>	e measuring
4.1.1 E.U.T. Operation:		
Operating Environment:	CE.	

		P	<b>V</b>
Temperature: 22.8 Pre test mode:	B °C Humidity: TM1, TM2	46.9 % Atmospheric Pi	ressure: 102 kPa
Final test mode:	TM1, TM2		
4.1.2 Test Setup Diag		000	pl
CE OCE		EUT	PASS
<b>4.1.3 Test Data:</b> Please Refer to Appen		POCE POCE	POCE

V1.0

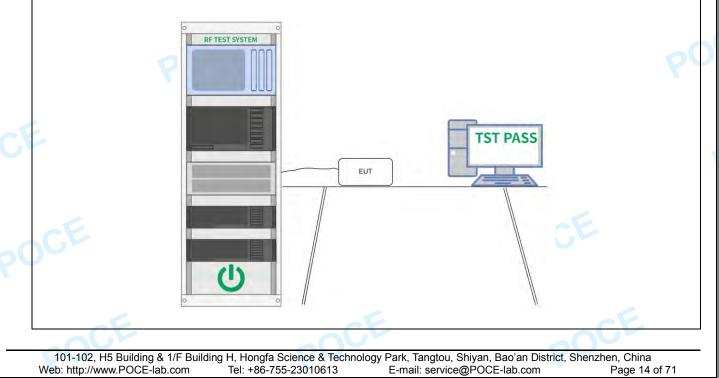
# 4.2 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.
Test Method:	ANSI C63.10-2013, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	<ul> <li>This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. The hopping shall be disabled for this test:</li> <li>a) Use the following spectrum analyzer settings:</li> <li>1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.</li> <li>2) RBW &gt; 20 dB bandwidth of the emission being measured.</li> <li>3) VBW &gt;= RBW.</li> <li>4) Sweep: Auto.</li> </ul>
POCE	<ul> <li>5) Detector function: Peak.</li> <li>6) Trace: Max hold.</li> <li>b) Allow trace to stabilize.</li> <li>c) Use the marker-to-peak function to set the marker to the peak of the emission.</li> <li>d) The indicated level is the peak output power, after any corrections for external attenuators and cables.</li> <li>e) A plot of the test results and setup description shall be included in the test report.</li> <li>NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.</li> </ul>

#### 4.2.1 E.U.T. Operation:

Operating Environment:							
Temperature: 22.8 °C			Humidity:	46.9 %	Atmospheric Pressure:	102 kPa	
Pre test mode:		TM1,	TM2				
Final test mode:	0	TM1,	TM2	P			PU
4.2.2. Tost Sotup Diagram:							

## 4.2.2 Test Setup Diagram:



POCE	V1.0	POCE	Report No.: POCE231218	006RL001
<b>4.2.3 Test Data:</b> Please Refer to Append	ix for Details.			



# 4.3 Channel Separation

V1.0

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), 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 output power no greater than 125 mW.
Test Method:	ANSI C63.10-2013, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel. c) Video (or average) bandwidth (VBW) ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

# 4.3.1 E.U.T. Operation:

Operating Environm	ment:				
Temperature: 22	Temperature: 22.8 °C		46.9 %	Atmospheric Pressure:	102 kPa
Pre test mode: TM3		TM4	T .		
Final test mode: TM3,		TM4			

4.3.2 Test Setup Diagram:	E	E.
		POUR
<b>4.3.3 Test Data:</b> Please Refer to Appendix for Details.		
	e E	CE.
OCL.	2064 20	
101-102, H5 Building & 1/F Building H, H Web: http://www.POCE-lab.com Tel:	Iongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, She           +86-755-23010613         E-mail: service@POCE-lab.com	nzhen, China Page 16 of 71

POCE

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# 4.4 Number of Hopping Frequencies

V1.0

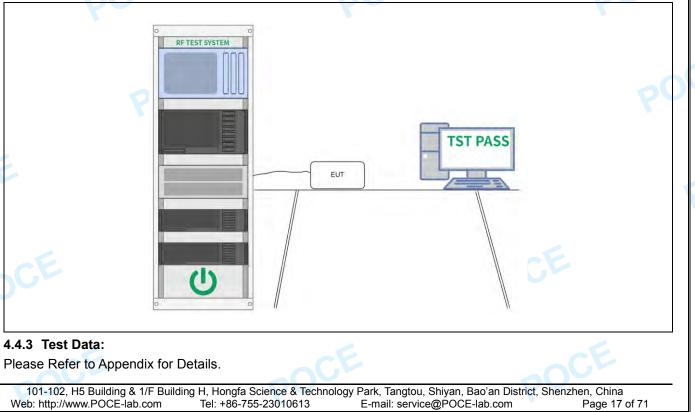
Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by 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.
Test Method:	ANSI C63.10-2013, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen. b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto.
	<ul> <li>e) Detector function: Peak.</li> <li>f) Trace: Max hold.</li> <li>g) Allow the trace to stabilize.</li> <li>It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.</li> </ul>

#### 4.4.1 E.U.T. Operation:

Operating Environment:							
Temperature:	22.8 °C		Humidity:	46.9 %	Atmospheric Pressure:	102 kPa	
Pre test mode: T		ΤМЗ,	TM4				
Final test mode:		ΤМ3,	TM4		CE.	C	

#### 4.4.2 Test Setup Diagram:

Web: http://www.POCE-lab.com







V1.0

Report No.: POCE231218006RL001

## 4.5 Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), Fequency 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.
Test Method:	ANSI C63.10-2013, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings: a) Span: Zero span, centered on a hopping channel. b) RBW shall be <= channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel. c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
POCE	<ul> <li>d) Detector function: Peak.</li> <li>e) Trace: Max hold.</li> <li>Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.</li> <li>Repeat the measurement using a longer sweep time to determine the number of</li> </ul>
PU	hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:
POU	(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time) The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.
P.	The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

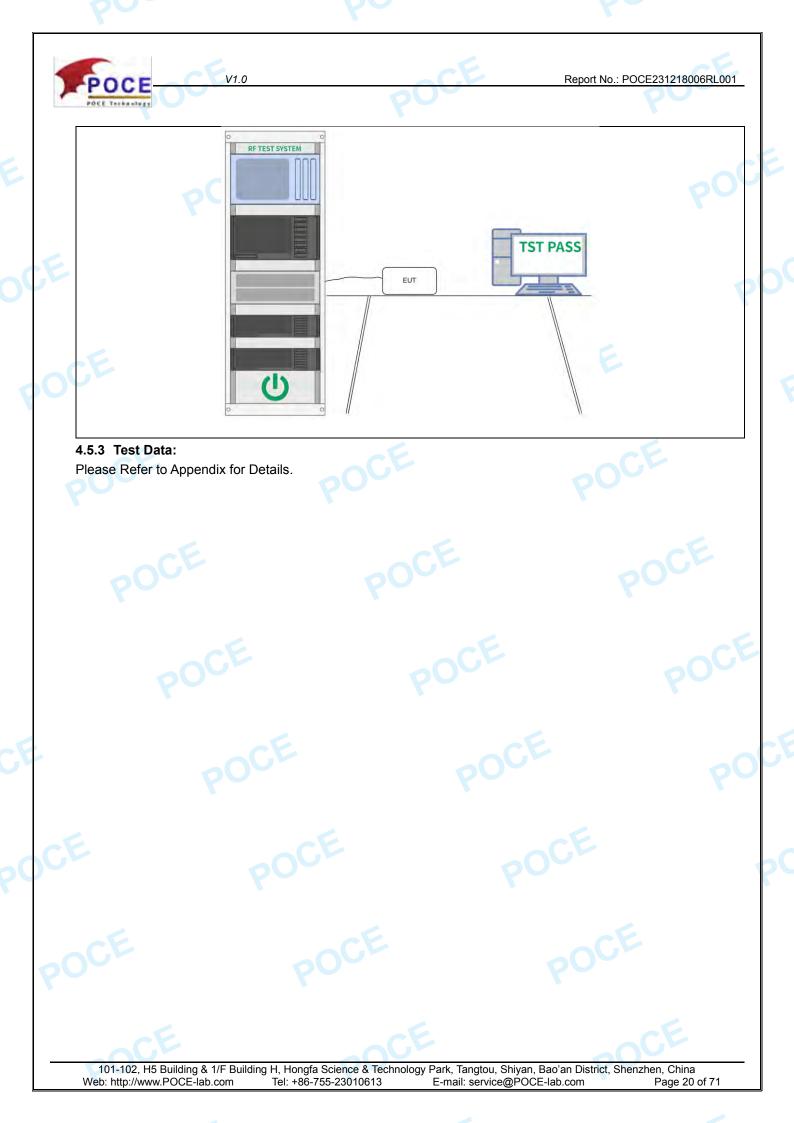
#### 4.5.1 E.U.T. Operation:

Operating Enviro	onment:			OCE		
Temperature:	22.8 °C	D	Humidity:	46.9 %	Atmospheric Pressure:	102 kPa
Pre test mode:		ТМЗ,	TM4			
Final test mode:	ТМ3,	TM4				

#### 4.5.2 Test Setup Diagram:

 101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China

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#### 4.6 Emissions in non-restricted frequency bands

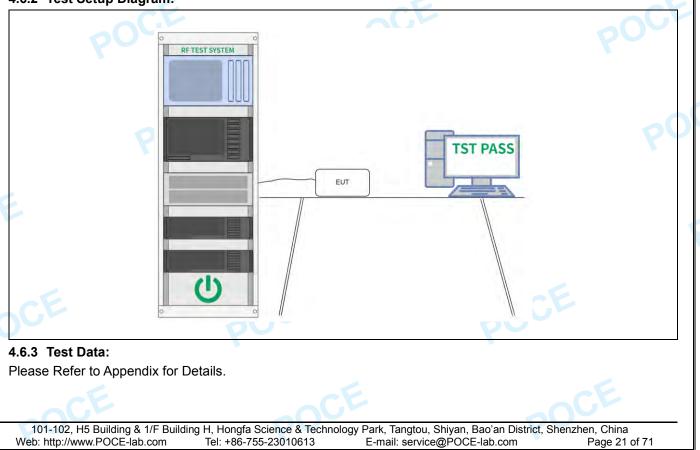
V1.0

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 7.8.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers. Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

#### 4.6.1 E.U.T. Operation:

Operating Environment:				
Temperature: 22.8 °C	Humidity:	46.9 %	Atmospheric Pressure:	102 kPa
Pre test mode:	TM1, TM2	<b>X</b>		
Final test mode:	TM1, TM2			

#### 4.6.2 Test Setup Diagram:



V1.0

Report No.: POCE231218006RL001

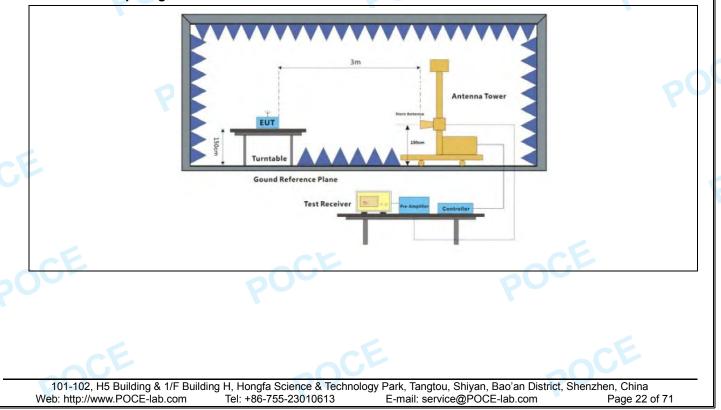
#### 4.7 Band edge emissions (Radiated)

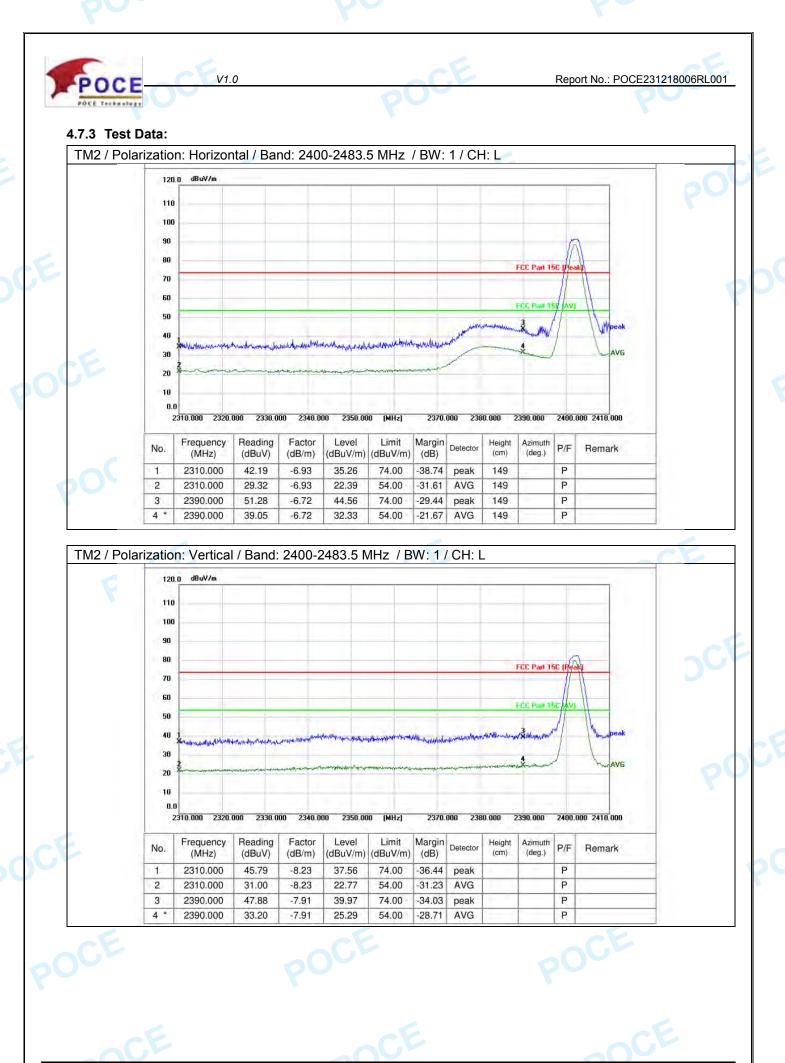
	Ŭ								
	Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).							
٦	Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
		0.009-0.490	2400/F(kHz)	300					
		0.490-1.705	24000/F(kHz)	30					
		1.705-30.0	30	30					
		30-88	100 **	3					
		88-216	150 **	3					
		216-960	200 **	3					
		Above 960	500	3					
C		** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges.							
P	OCE	The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.							
	Fest Method:		ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02						
F	Procedure:	ANSI C63.10-2013 section 6	.10.5.2	CE					
L									

#### 4.7.1 E.U.T. Operation:

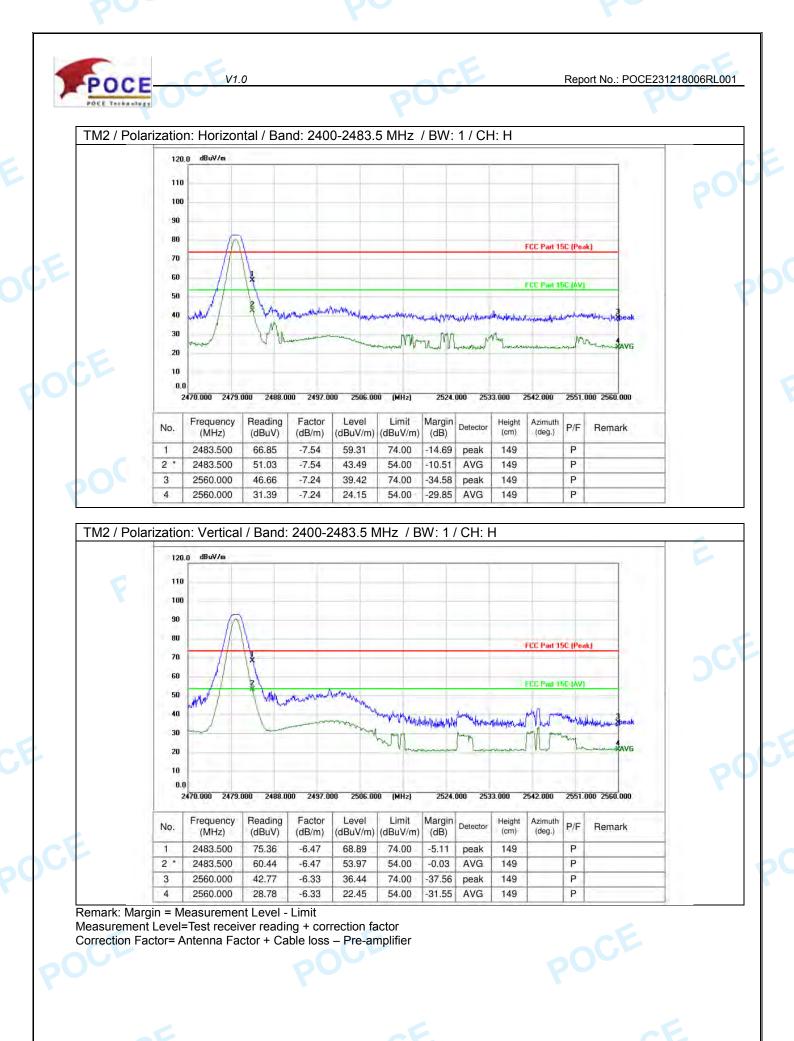
Operating Environment:									
Temperature:	22.8 °C		Humidity:	46.9 %	Atmospheric Press	ure: 102 kPa			
Pre test mode:		TM1,	TM2						
Final test mode: TM2(worse case)									

#### 4.7.2 Test Setup Diagram:





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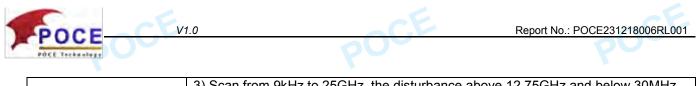
101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China Web: http://www.POCE-lab.com Tel: +86-755-23010613 E-mail: service@POCE-lab.com Page 24 of 71



# 4.8 Emissions in frequency bands (below 1GHz)

V1.0

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated								
		emission limits specified in § 15.209(a)(see § 15.205(c)).							
Test Limit:	Frequency (MHz)	Field strength	Measurement						
		(microvolts/meter)	distance (meters)						
	0.009-0.490	2400/F(kHz)	300						
	0.490-1.705	24000/F(kHz)	30						
	1.705-30.0	30	30						
	30-88	100 **	3						
		150 **							
	88-216		3						
	216-960	200 **	3						
	Above 960	500	3						
	radiators operating und 54-72 MHz, 76-88 MHz these frequency bands and 15.241. In the emission table at	, 174-216 MHz or 470-806 M is permitted under other sec nove, the tighter limit applies	cated in the frequency bands IHz. However, operation withir tions of this part, e.g., §§ 15.23 at the band edges.						
	The emission limits sho	wn in the above table are ba	ised on measurements						
			the frequency bands 9–90 kHz						
	110-490 kHz and above	e 1000 MHz. Radiated emiss	sion limits in these three bands						
	are based on measurer	nents employing an average	detector.						
Test Method:	ANSI C63.10-2013 sect KDB 558074 D01 15.24	ion 6.6.4 7 Meas Guidance v05r02							
Procedure:	a For below 1GHz the	FLIT was placed on the top	of a rotating table 0.8 meters						
			chamber. The table was rotate						
		ne the position of the highes							
			of a rotating table 1.5 meters						
			per. The table was rotated 360						
		e position of the highest rad							
			nterference-receiving antenna,						
		the top of a variable-height a							
			our meters above the ground to						
		n value of the field strength.							
		enna are set to make the me							
			nged to its worst case and then						
			meters (for the test frequency						
			neter) and the rotatable table						
		ees to 360 degrees to find th							
	-	em was set to Peak Detect F	-unction and Specified						
	Bandwidth with Maximu								
		of the EUT in peak mode wa							
			ak values of the EUT would be						
	reported. Otherwise the	emissions that did not have	10dB margin would be re-						
			e method as specified and the						
	reported in a data sheet								
	•		annel, the Highest channel.						
		ements are performed in X, Y							
		found the X axis positioning							
		ures until all frequencies me							
	Remark:								
	1) For emission below 1	GHz, through pre-scan foun case is recorded in the repo	nd the worst case is the lowest						
	5	•	enna Factor, Cable Factor &						
		equation with a sample calc							
	Freamplinet. The basic	Equation with a sample Calc	uiauuii is as iuliuws.						
	Final Tost Loval - Bassi								
	Final Test Level =Recei Preamplifier Factor	ver Reading + Antenna Fact							



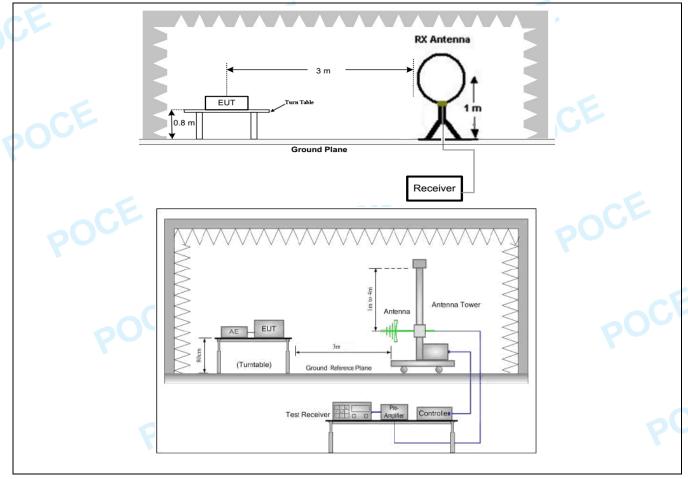
PO

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

## 4.8.1 E.U.T. Operation:

Operating Environment:								
•	Temperature: 22.8 °C			Humidity:	46.9 % Atmospheric Pressure: 102 kPa			
Pre test mode: TM1, TM2				TM2		PU		
Final test mode: TM2(worse case)				worse case)				

## 4.8.2 Test Setup Diagram:



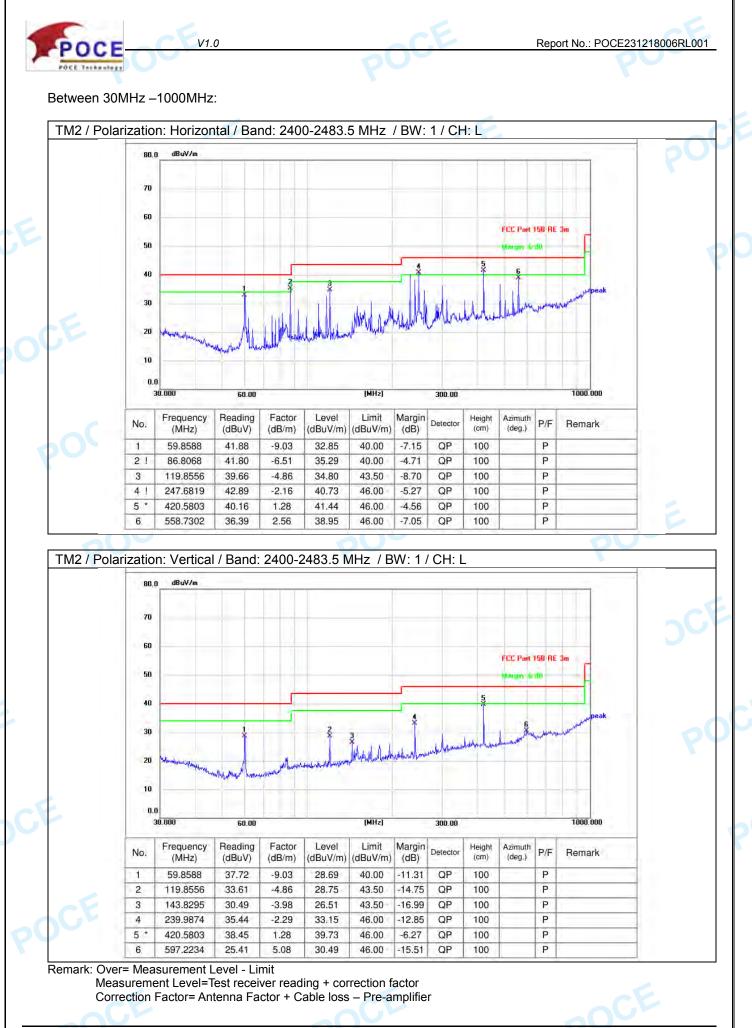
## 4.8.3 Test Data:

Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

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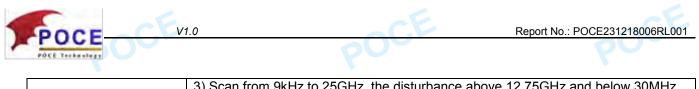
# 4.9 Emissions in frequency bands (above 1GHz)

V1.0

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).							
Test Limit:		Frequency (MHz) Field strength Measurement						
	Frequency (IVITIZ)	(microvolts/meter)	distance (meters)					
	0.000.0.400							
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	** Except as provided in	n paragraph (g), fundamental	emissions from intentional					
	radiators operating und 54-72 MHz, 76-88 MHz	er this section shall not be loo , 174-216 MHz or 470-806 M	cated in the frequency bands Hz. However, operation withir					
	and 15.241.	these frequency bands is permitted under other sections of this part, e.g., §§ 15.231						
		ove, the tighter limit applies						
		wn in the above table are ba						
			he frequency bands 9–90 kHz					
			ion limits in these three bands					
	are based on measurer	nents employing an average	detector.					
Test Method:	ANSI C63.10-2013 sec	ion 6.6.4						
		7 Meas Guidance v05r02						
Procedure:			of a rotating table 0.0 maters					
riocedure.	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters							
	above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated							
	360 degrees to determine the position of the highest radiation.							
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters							
	degrees to determine the	above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.						
	c. The EUT was set 3 or 10 meters away from the interference-receiving							
	c. The EUT was set 3 o	r 10 meters away from the in	terference-receiving antenna,					
	c. The EUT was set 3 o		terference-receiving antenna,					
	c. The EUT was set 3 o which was mounted on	r 10 meters away from the in the top of a variable-height a	terference-receiving antenna, intenna tower.					
	c. The EUT was set 3 o which was mounted on d. The antenna height is	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo	terference-receiving antenna, intenna tower. ur meters above the ground to					
	c. The EUT was set 3 o which was mounted on d. The antenna height is determine the maximum	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical					
	<ul> <li>c. The EUT was set 3 o which was mounted on d. The antenna height is determine the maximum polarizations of the anter</li> </ul>	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E enna are set to make the mea	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement.					
	c. The EUT was set 3 o which was mounted on d. The antenna height is determine the maximum polarizations of the ante e. For each suspected of	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E enna are set to make the mea emission, the EUT was arran	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther					
	c. The EUT was set 3 o which was mounted on d. The antenna height is determine the maximum polarizations of the ante e. For each suspected of the antenna was tuned	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E enna are set to make the mea emission, the EUT was arran to heights from 1 meter to 4	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency					
	c. The EUT was set 3 o which was mounted on d. The antenna height is determine the maximum polarizations of the ante e. For each suspected of the antenna was tuned below 30MHz, the ante	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E enna are set to make the mea emission, the EUT was arran to heights from 1 meter to 4 nna was tuned to heights 1 m	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency neter) and the rotatable table					
	c. The EUT was set 3 of which was mounted on d. The antenna height is determine the maximum polarizations of the ante- e. For each suspected of the antenna was tuned below 30MHz, the ante- was turned from 0 degr	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E enna are set to make the mea emission, the EUT was arran to heights from 1 meter to 4 nna was tuned to heights 1 m ees to 360 degrees to find the	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency neter) and the rotatable table e maximum reading.					
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	c. The EUT was set 3 o which was mounted on d. The antenna height is determine the maximum polarizations of the ante e. For each suspected the antenna was tuned below 30MHz, the ante was turned from 0 degr f. The test-receiver syst Bandwidth with Maximu g. If the emission level	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E enna are set to make the mea emission, the EUT was arran to heights from 1 meter to 4 nna was tuned to heights 1 m ees to 360 degrees to find the em was set to Peak Detect F m Hold Mode. of the EUT in peak mode was	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency heter) and the rotatable table e maximum reading. Function and Specified a 10dB lower than the limit					
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	c. The EUT was set 3 of which was mounted on d. The antenna height is determine the maximum polarizations of the anter e. For each suspected the antenna was tuned below 30MHz, the anter was turned from 0 degr f. The test-receiver syst Bandwidth with Maximu g. If the emission level specified, then testing of reported. Otherwise the tested one by one using	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E ema are set to make the mea emission, the EUT was arran to heights from 1 meter to 4 na was tuned to heights 1 m ees to 360 degrees to find the em was set to Peak Detect F m Hold Mode. of the EUT in peak mode was ould be stopped and the pea emissions that did not have p peak, quasi-peak or averag	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency neter) and the rotatable table e maximum reading. Function and Specified s 10dB lower than the limit k values of the EUT would be 10dB margin would be re-					
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	c. The EUT was set 3 of which was mounted on d. The antenna height is determine the maximum polarizations of the anter e. For each suspected of the antenna was tuned below 30MHz, the anter was turned from 0 degr f. The test-receiver syst Bandwidth with Maximu g. If the emission level specified, then testing of reported. Otherwise the tested one by one using reported in a data shee h. Test the EUT in the lo i. The radiation measure Transmitting mode, and	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E ema are set to make the mea emission, the EUT was arran- to heights from 1 meter to 4 na was tuned to heights 1 m ees to 360 degrees to find the em was set to Peak Detect F m Hold Mode. of the EUT in peak mode was ould be stopped and the pea emissions that did not have peak, quasi-peak or averag to west channel, the middle ch- ements are performed in X, Y found the X axis positioning	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency heter) and the rotatable table e maximum reading. Function and Specified a 10dB lower than the limit k values of the EUT would be 10dB margin would be re- e method as specified and the annel, the Highest channel. 4, Z axis positioning for which it is the worst case.					
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	<ul> <li>c. The EUT was set 3 of which was mounted on d. The antenna height is determine the maximum polarizations of the anten e. For each suspected of the antenna was tuned below 30MHz, the anten was turned from 0 degring. The test-receiver system Bandwidth with Maximung. If the emission level of specified, then testing of reported. Otherwise the tested one by one using reported in a data shee h. Test the EUT in the low in the radiation measure transmitting mode, and j. Repeat above proceed Remark:</li> <li>1) For emission below a state of the test of test o</li></ul>	r 10 meters away from the in the top of a variable-height a s varied from one meter to fo n value of the field strength. E ema are set to make the mea- emission, the EUT was arran- to heights from 1 meter to 4 in na was tuned to heights 1 m ees to 360 degrees to find the em was set to Peak Detect F m Hold Mode. of the EUT in peak mode was ould be stopped and the pea- emissions that did not have g peak, quasi-peak or averag to mean the X axis positioning ures until all frequencies mea- GHz, through pre-scan four-	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency neter) and the rotatable table e maximum reading. Function and Specified a 10dB lower than the limit k values of the EUT would be 10dB margin would be re- e method as specified and the annel, the Highest channel. A zaxis positioning for which it is the worst case. asured was complete.					
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	<ul> <li>c. The EUT was set 3 of which was mounted on d. The antenna height is determine the maximum polarizations of the anten e. For each suspected of the antenna was tuned below 30MHz, the anten was turned from 0 degr f. The test-receiver syst Bandwidth with Maximu g. If the emission level of specified, then testing of reported. Otherwise the tested one by one using reported in a data shee h. Test the EUT in the low i. The radiation measure Transmitting mode, and j. Repeat above proced Remark:</li> <li>1) For emission below for the field strength is determined to the test of the strength is determined.</li> </ul>	r 10 meters away from the in the top of a variable-height a svaried from one meter to fo n value of the field strength. E ema are set to make the mea- emission, the EUT was arran- to heights from 1 meter to 4 in na was tuned to heights 1 m ees to 360 degrees to find the em was set to Peak Detect F m Hold Mode. of the EUT in peak mode was ould be stopped and the pea- emissions that did not have g peak, quasi-peak or averag to meents are performed in X, Y found the X axis positioning ures until all frequencies mea- GHz, through pre-scan foun- case is recorded in the repo- calculated by adding the Anter	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency heter) and the rotatable table e maximum reading. Function and Specified a 10dB lower than the limit k values of the EUT would be 10dB margin would be re- e method as specified and the annel, the Highest channel. 4, Z axis positioning for which it is the worst case. asured was complete. d the worst case is the lowest rt. enna Factor, Cable Factor &					
	<ul> <li>c. The EUT was set 3 of which was mounted on d. The antenna height is determine the maximum polarizations of the antene e. For each suspected of the antenna was tuned below 30MHz, the antene was turned from 0 degr f. The test-receiver syst Bandwidth with Maximu g. If the emission level of specified, then testing of reported. Otherwise the tested one by one using reported in a data shee h. Test the EUT in the lot. The radiation measure Transmitting mode, and j. Repeat above proced Remark:</li> <li>1) For emission below of channel. Only the worst 2) The field strength is of Preamplifier. The basic</li> </ul>	r 10 meters away from the in the top of a variable-height a svaried from one meter to fo n value of the field strength. E ema are set to make the mea- emission, the EUT was arran- to heights from 1 meter to 4 in na was tuned to heights 1 m ees to 360 degrees to find the em was set to Peak Detect F m Hold Mode. of the EUT in peak mode was ould be stopped and the pea- emissions that did not have peak, quasi-peak or averag to west channel, the middle char ements are performed in X, Y found the X axis positioning ures until all frequencies mea- GHz, through pre-scan foun- case is recorded in the repo- calculated by adding the Ante- equation with a sample calcu-	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency heter) and the rotatable table e maximum reading. Function and Specified a 10dB lower than the limit k values of the EUT would be 10dB margin would be re- e method as specified and the annel, the Highest channel. C z axis positioning for which it is the worst case. asured was complete. d the worst case is the lowest rt. enna Factor, Cable Factor & alation is as follows:					
	<ul> <li>c. The EUT was set 3 of which was mounted on d. The antenna height is determine the maximum polarizations of the antene e. For each suspected of the antenna was tuned below 30MHz, the antene was turned from 0 degr f. The test-receiver syst Bandwidth with Maximu g. If the emission level of specified, then testing of reported. Otherwise the tested one by one using reported in a data shee h. Test the EUT in the lot. The radiation measure Transmitting mode, and j. Repeat above proced Remark:</li> <li>1) For emission below of channel. Only the worst 2) The field strength is of Preamplifier. The basic</li> </ul>	r 10 meters away from the in the top of a variable-height a svaried from one meter to fo n value of the field strength. E ema are set to make the mea- emission, the EUT was arran- to heights from 1 meter to 4 in na was tuned to heights 1 m ees to 360 degrees to find the em was set to Peak Detect F m Hold Mode. of the EUT in peak mode was ould be stopped and the pea emissions that did not have peak, quasi-peak or averag to west channel, the middle char ements are performed in X, Y found the X axis positioning ures until all frequencies mea GHz, through pre-scan foun- case is recorded in the repo- calculated by adding the Anter	terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical asurement. ged to its worst case and ther meters (for the test frequency heter) and the rotatable table e maximum reading. Function and Specified a 10dB lower than the limit k values of the EUT would be 10dB margin would be re- e method as specified and the annel, the Highest channel. C z axis positioning for which it is the worst case. asured was complete. d the worst case is the lowest rt. enna Factor, Cable Factor & alation is as follows:					

 101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China

 Web: http://www.POCE-lab.com
 Tel: +86-755-23010613
 E-mail: service@POCE-lab.com
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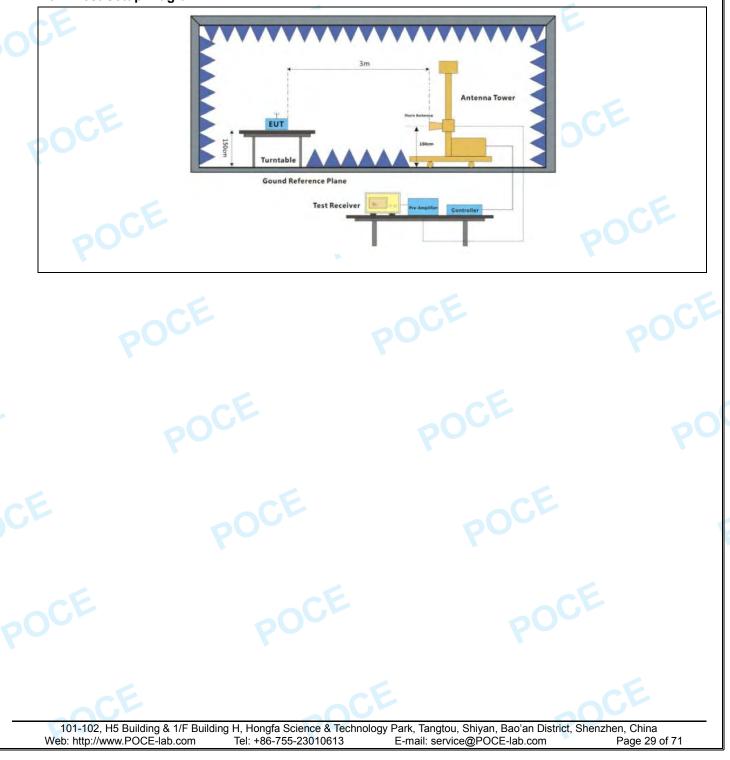
PO

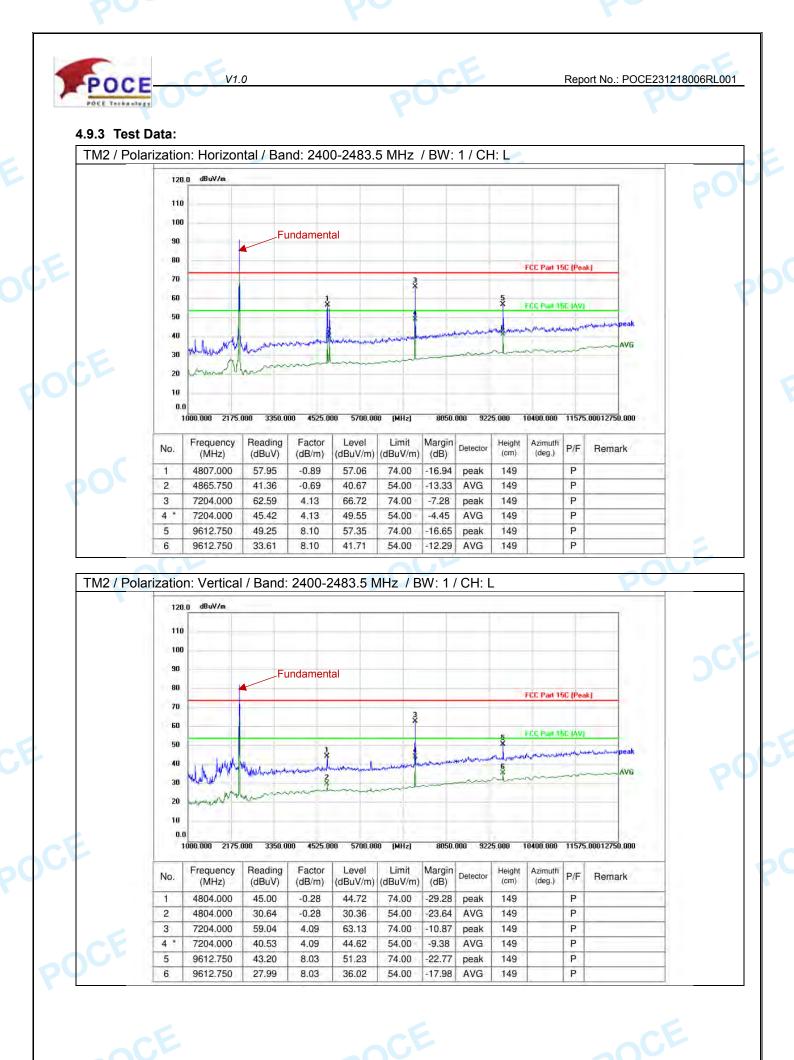
3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

# 4.9.1 E.U.T. Operation:

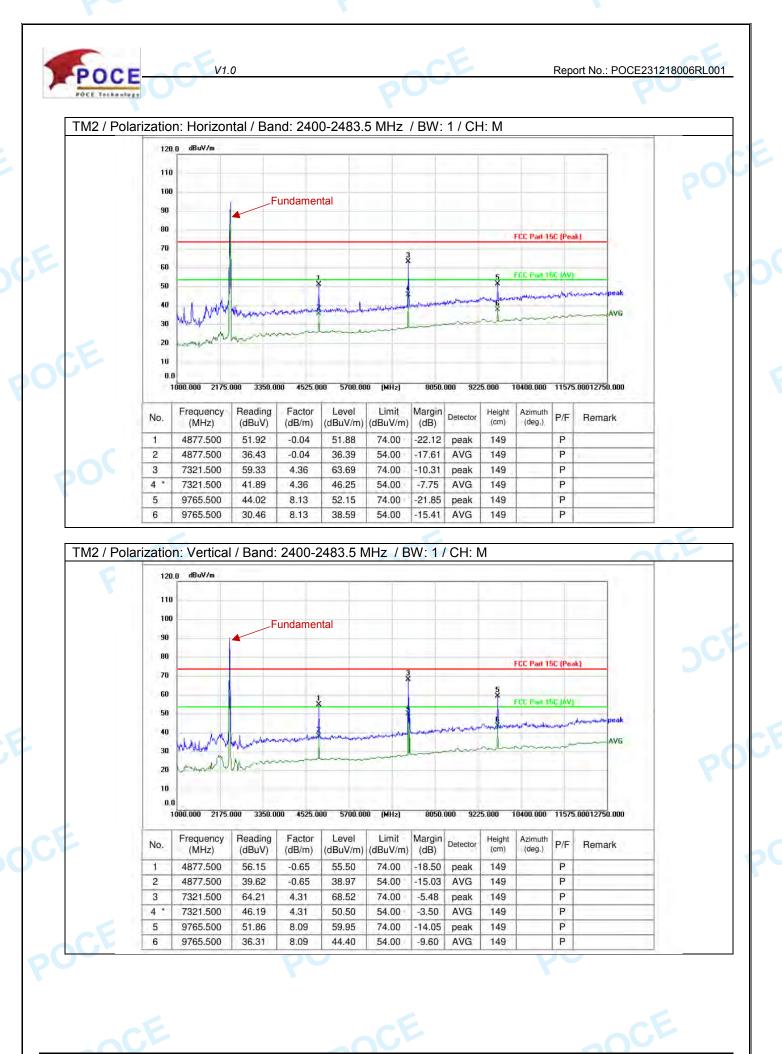
Operating Environment:									
L.	Temperature:	22.8 °C		Humidity:	46.9 %	Atmospheric	Pressure:	102 kPa	
Pre test mode: TM1, TM2						PU			
Final test mode: TM2(worse case)									

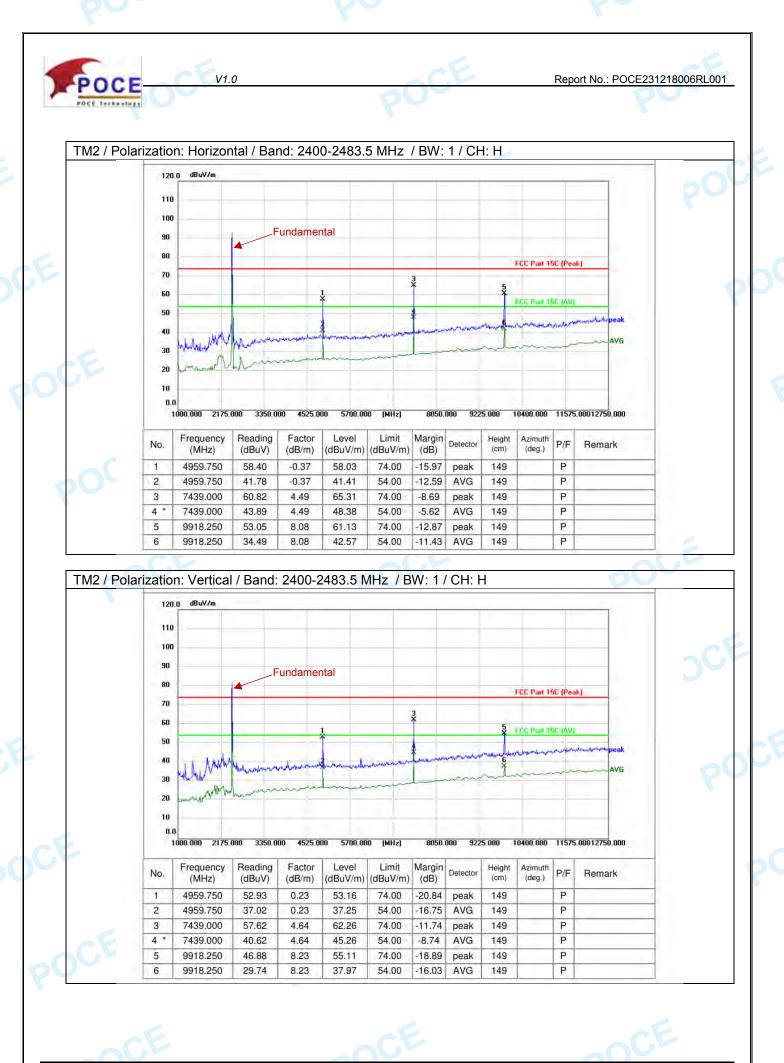
# 4.9.2 Test Setup Diagram:





101-102, H5 Building & 1/F Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, China Web: http://www.POCE-lab.com Tel: +86-755-23010613 E-mail: service@POCE-lab.com



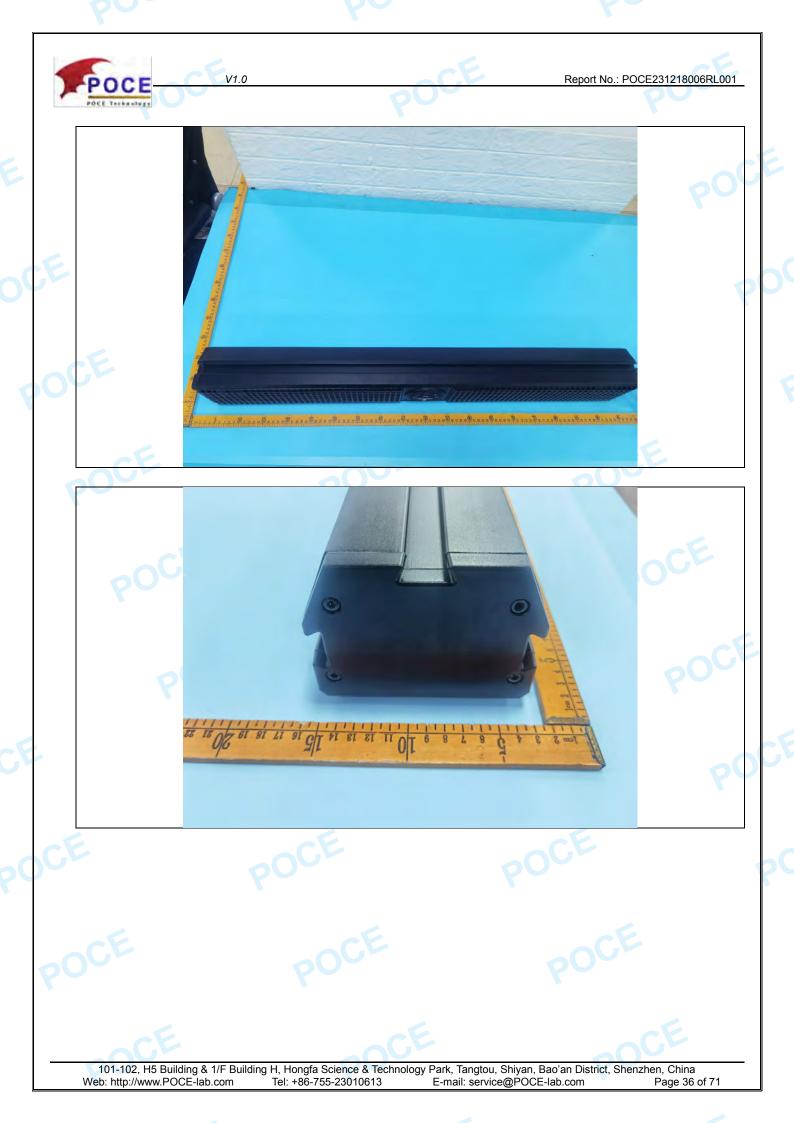


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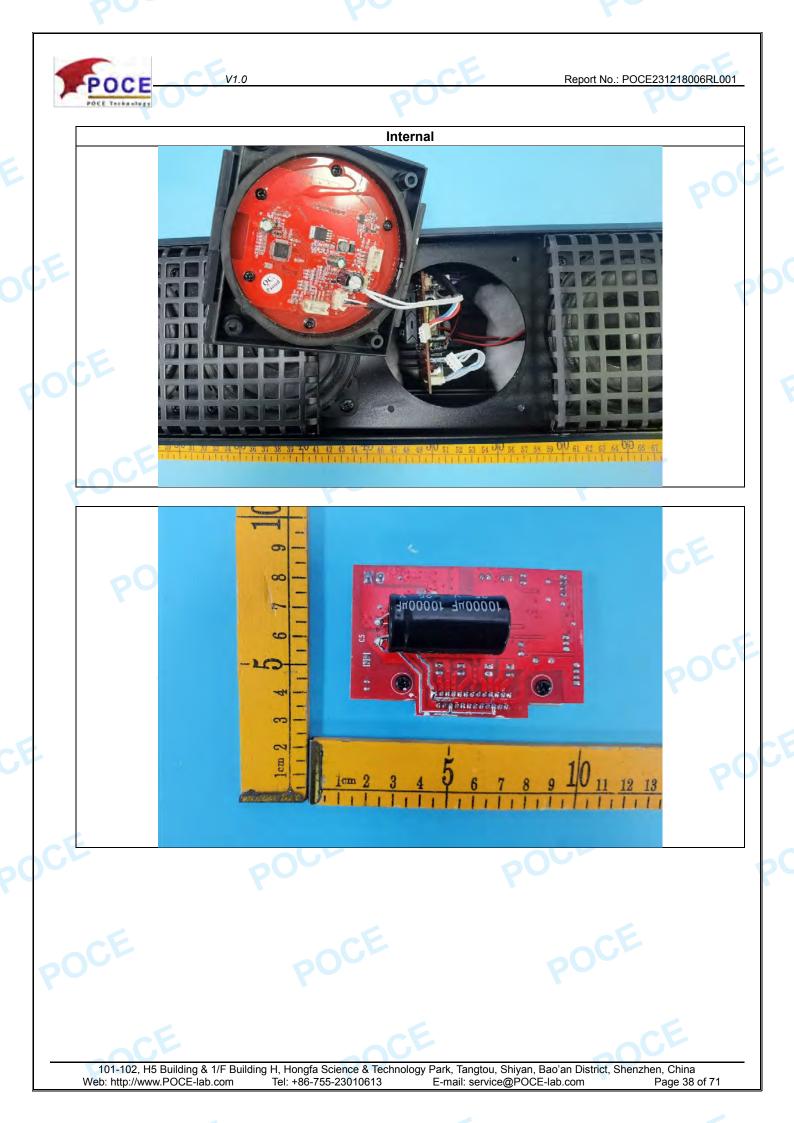


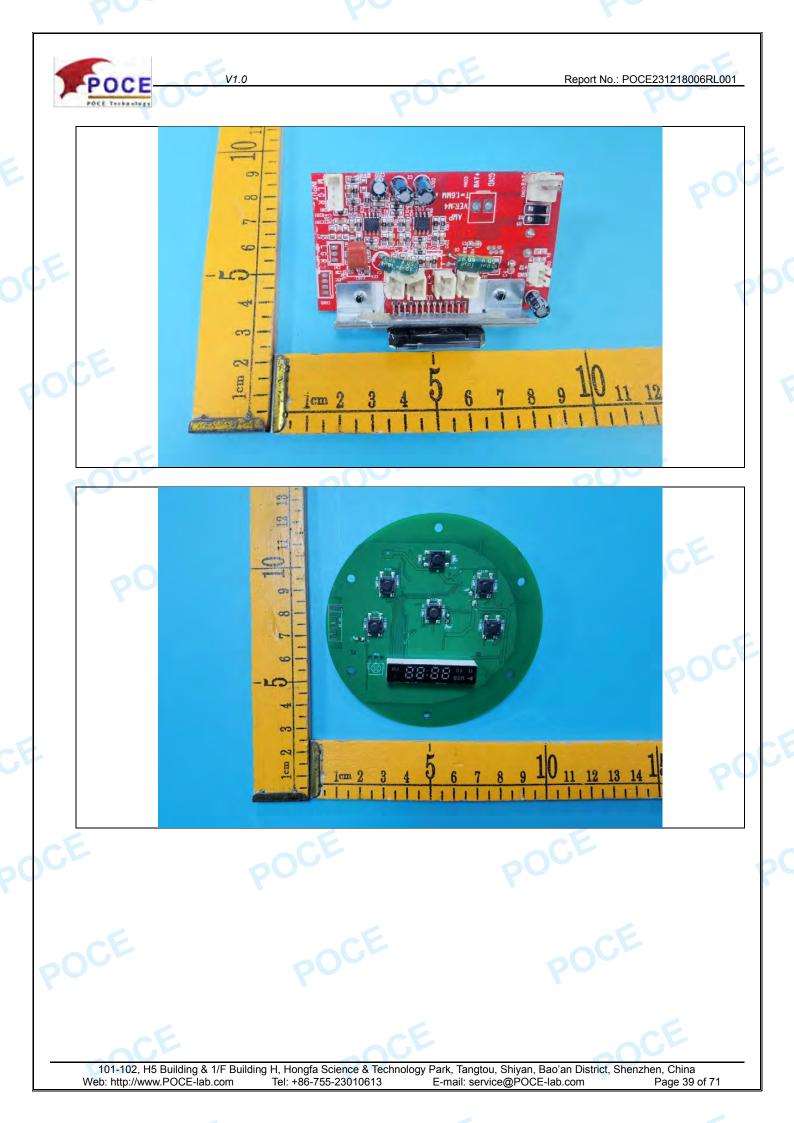


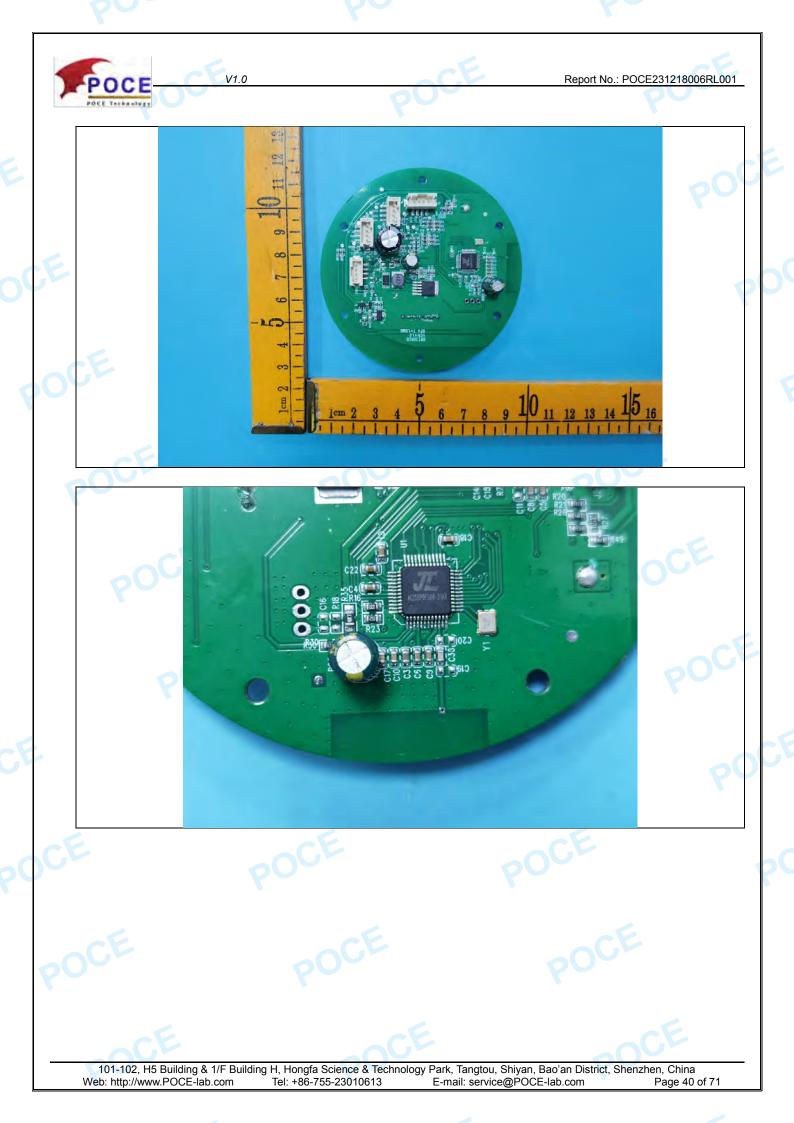










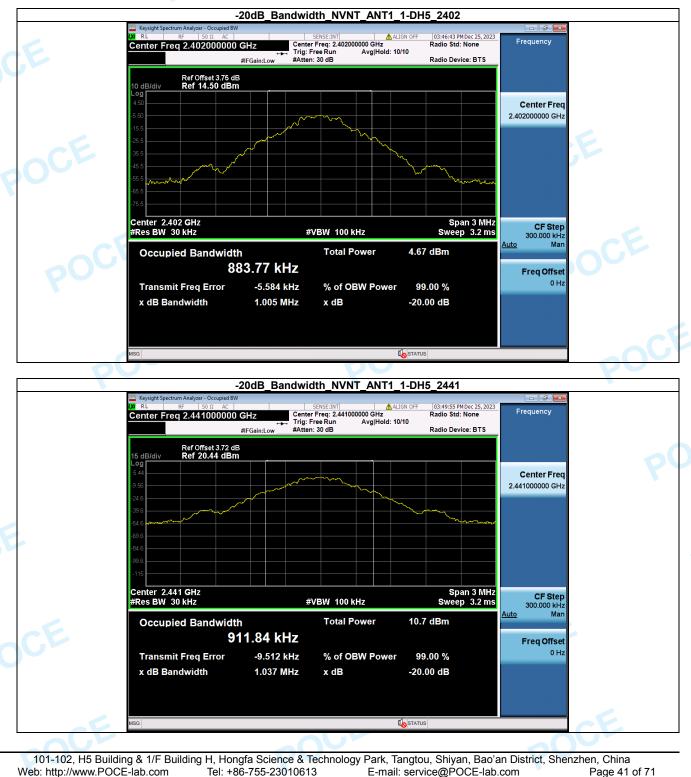


# Appendix

#### 1. -20dB Bandwidth

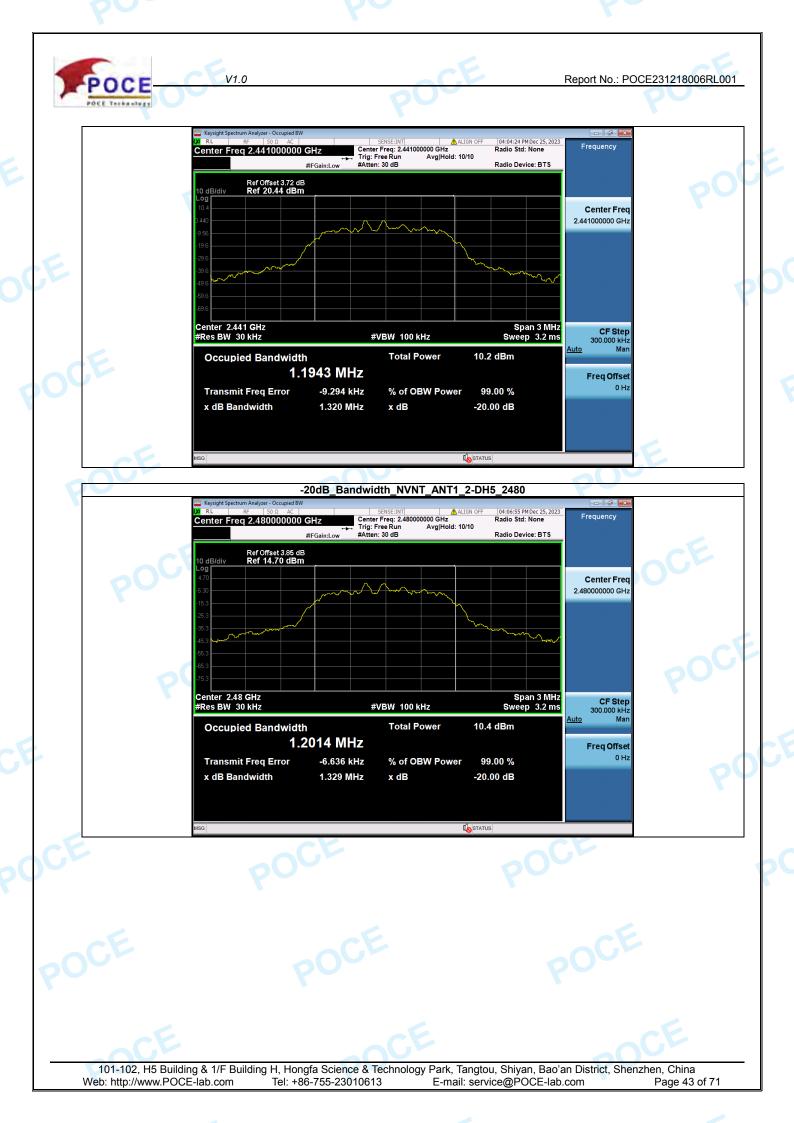
V1.0

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	1.005	Yes
NVNT	ANT1	1-DH5	2441.00	1.037	Yes
NVNT	ANT1	1-DH5	2480.00	1.048	Yes
NVNT	ANT1	2-DH5	2402.00	1.312	Yes
NVNT	ANT1	2-DH5	2441.00	1.320	Yes
NVNT	ANT1	2-DH5	2480.00	1.329	Yes



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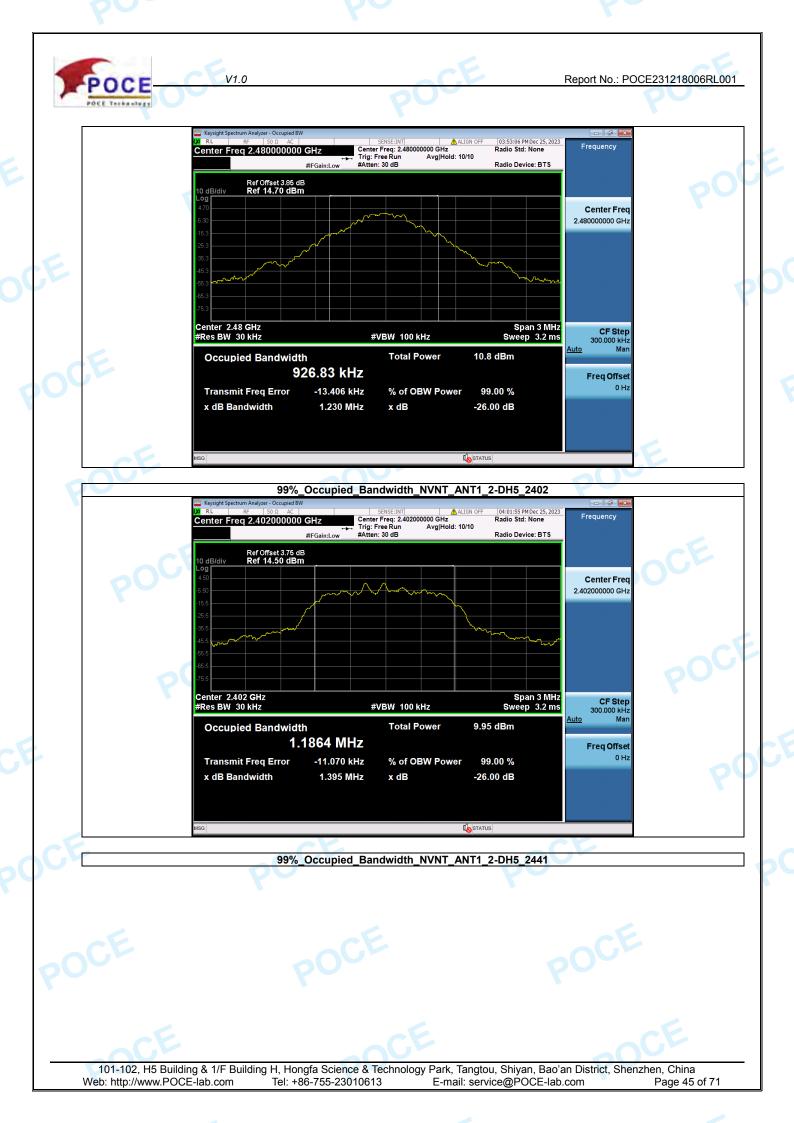


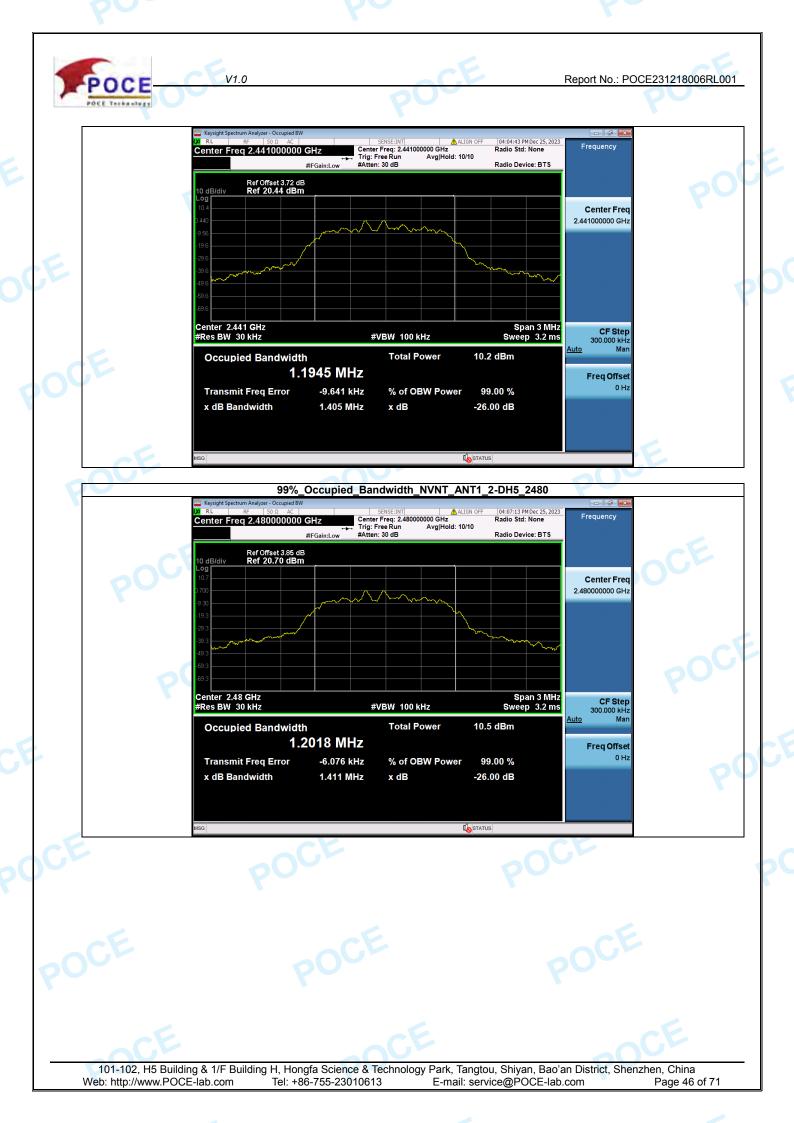


# 2. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.881
NVNT	ANT1	1-DH5	2441.00	0.911
NVNT	ANT1	1-DH5	2480.00	0.927
NVNT	ANT1	2-DH5 🔪	2402.00	1.186
NVNT	ANT1	2-DH5	2441.00	1.194
NVNT	ANT1	2-DH5	2480.00	1.202











#### 3. **Peak Output Power**

V1.0

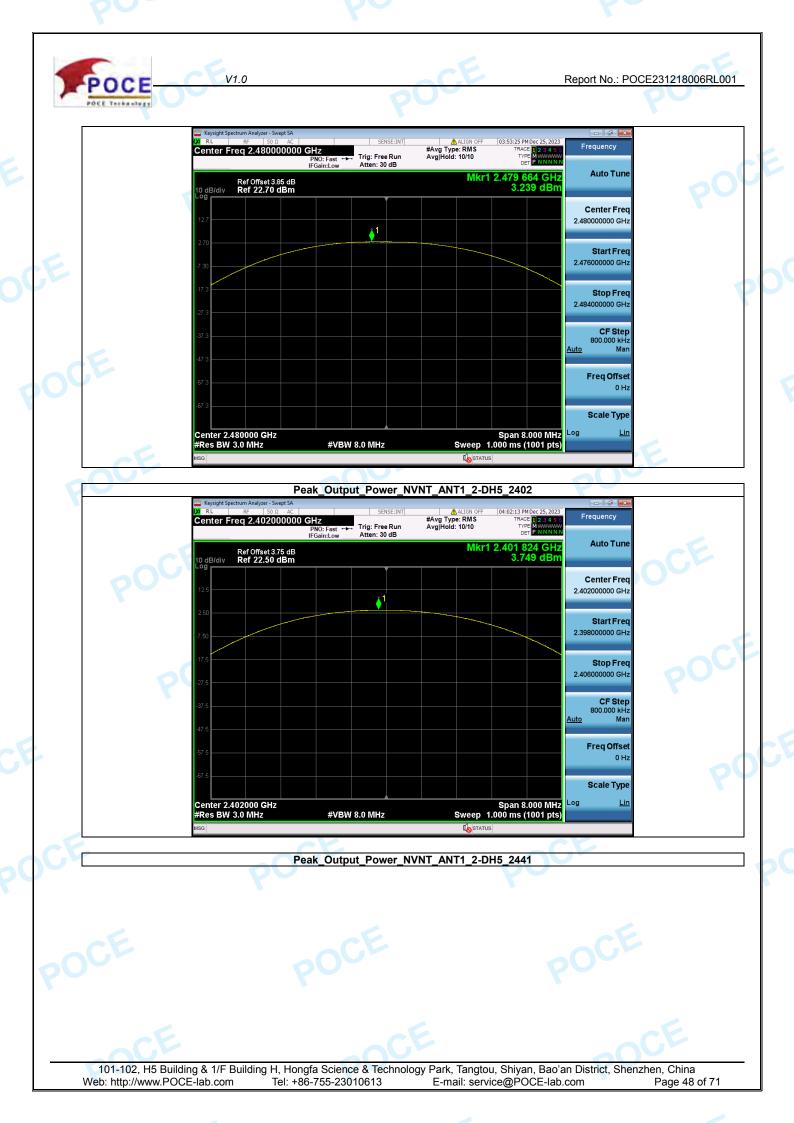
Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1 🧹	1-DH5	2402.00	-2.70	0.54	125	Pass
NVNT	ANT1	1-DH5	2441.00	3.15	2.06	125	Pass
NVNT	ANT1	1-DH5	2480.00	3.24	2.11	125	Pass
NVNT	ANT1	2-DH5	2402.00	3.75	2.37	125	Pass
NVNT	ANT1	2-DH5	2441.00	3.93	2.47	125	Pass
NVNT	ANT1	2-DH5	2480.00	4.07	2.55	125	Pass



Peak\_Output\_Power\_NVNT\_ANT1\_1-DH5\_2480

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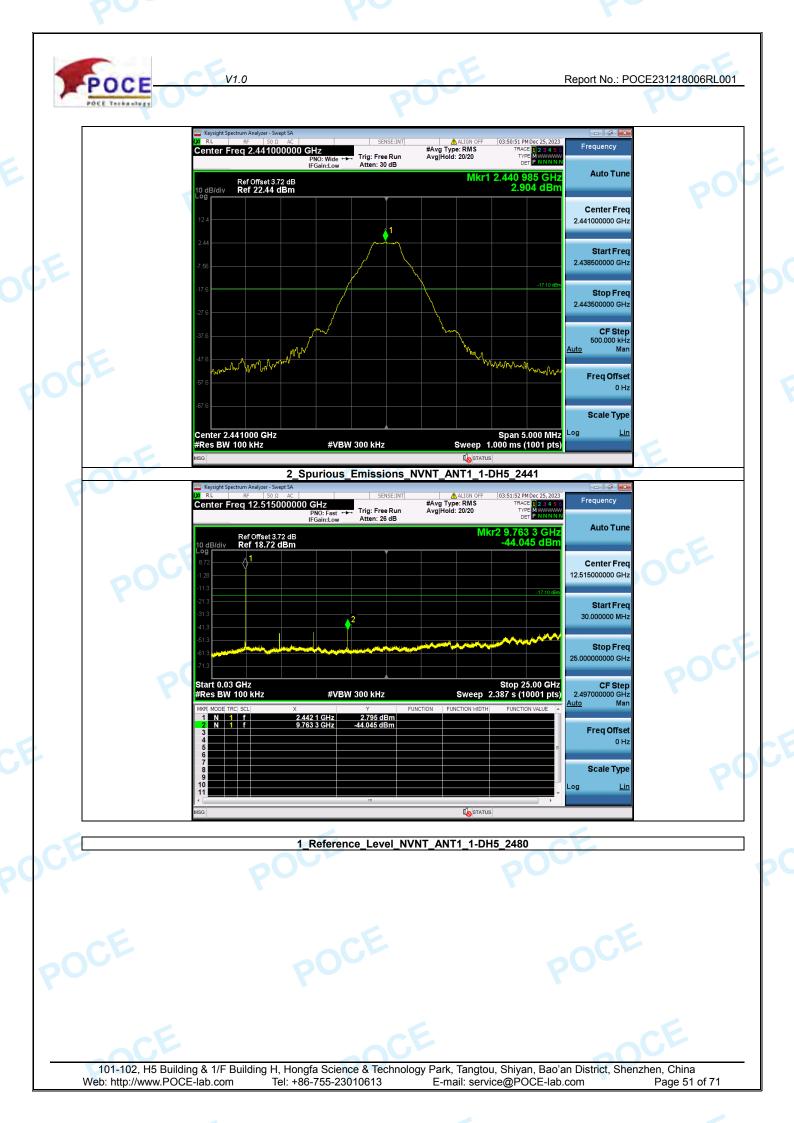


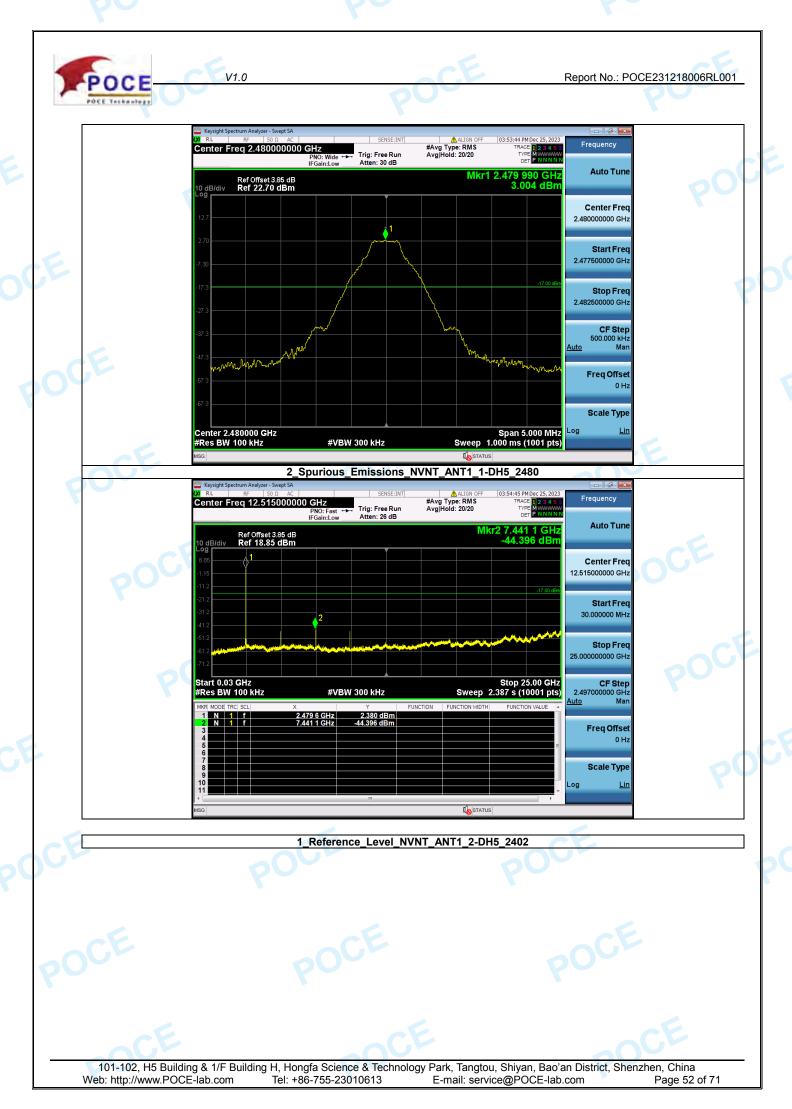
# 4. Spurious Emissions

V1.0

Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-48.480	-22.874	Pass
NVNT	ANT1	1-DH5	2441.00	-44.045	-17.096	Pass
NVNT	ANT1	1-DH5	2480.00	-44.396	-16.996	Pass
NVNT	ANT1	2-DH5	2402.00	-44.190	-17.269	Pass
NVNT	ANT1	2-DH5	2441.00	-44.861	-17.084	Pass
NVNT	ANT1	2-DH5	2480.00	-45.181	-16.954	Pass









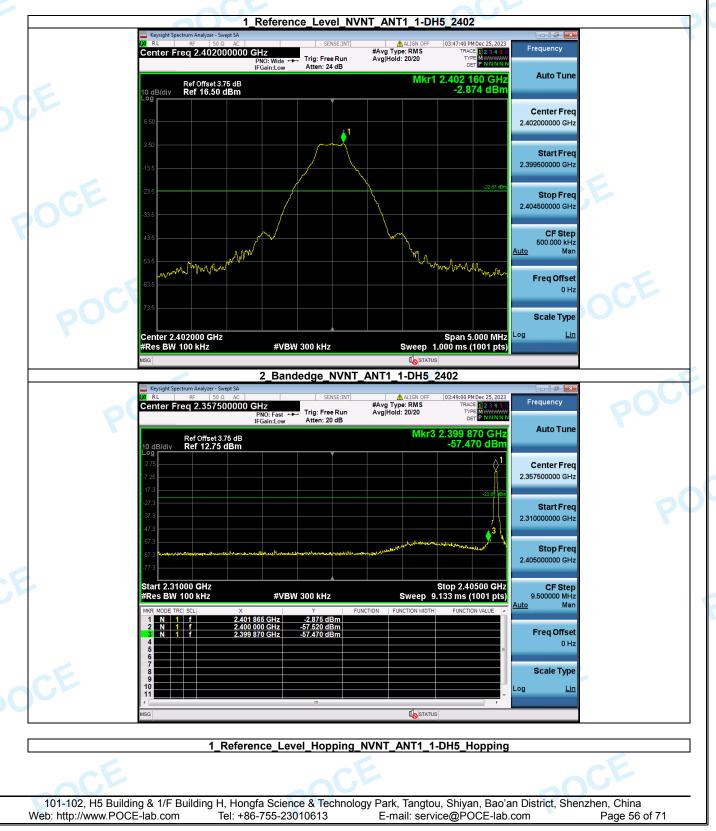


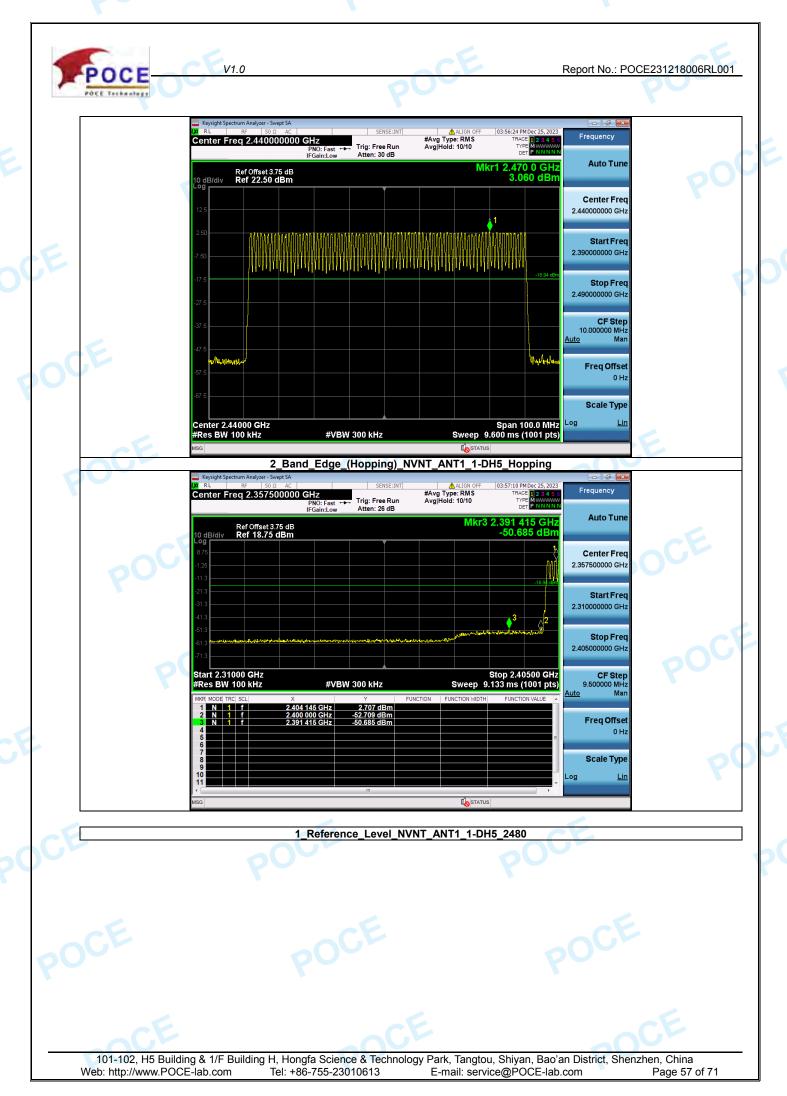


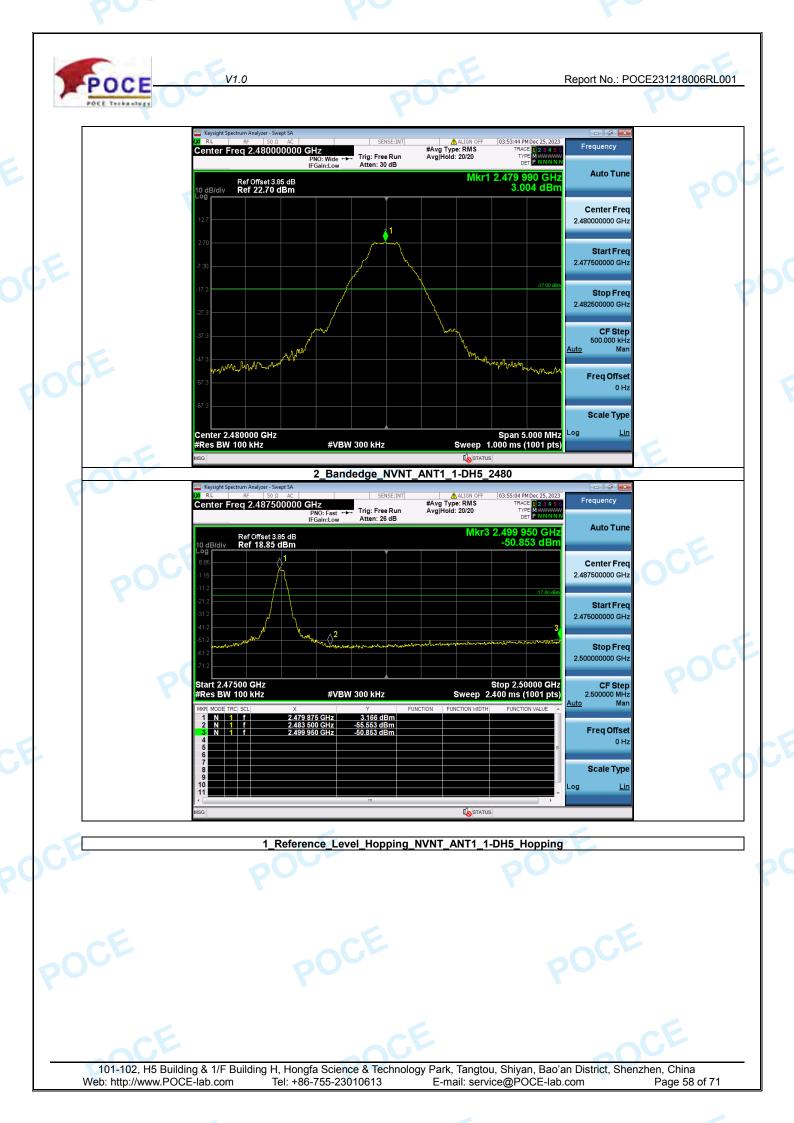


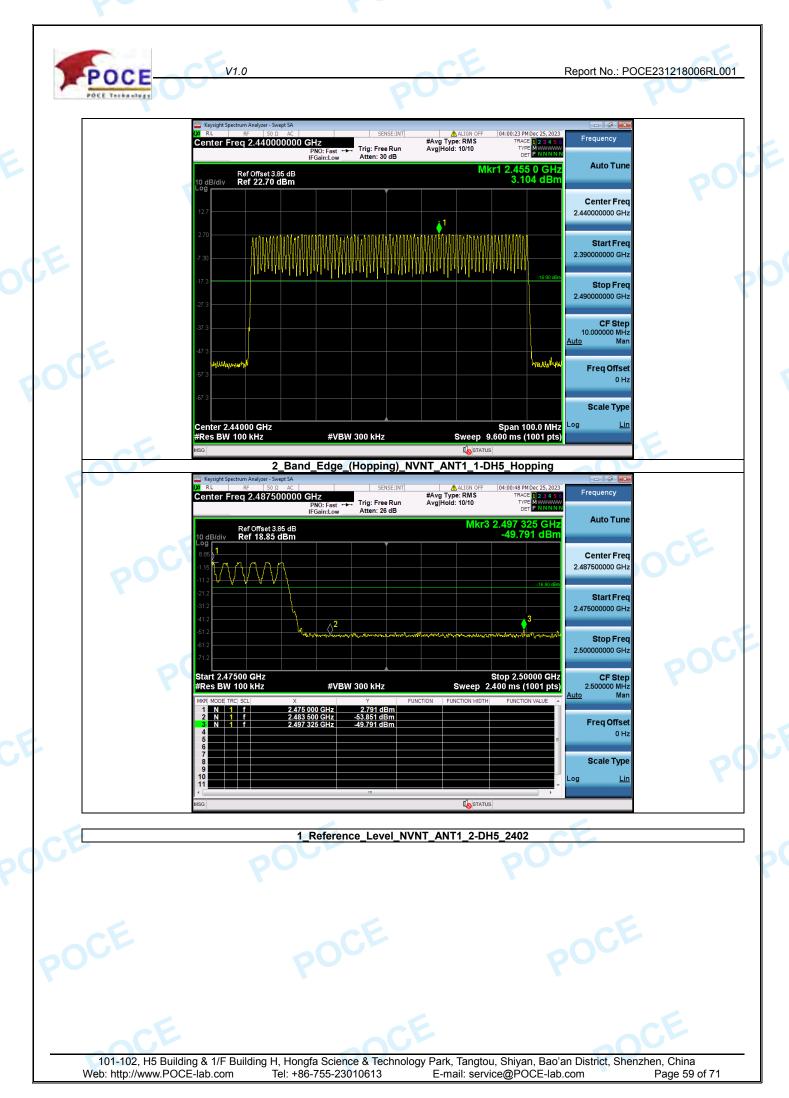
## 5. Bandedge

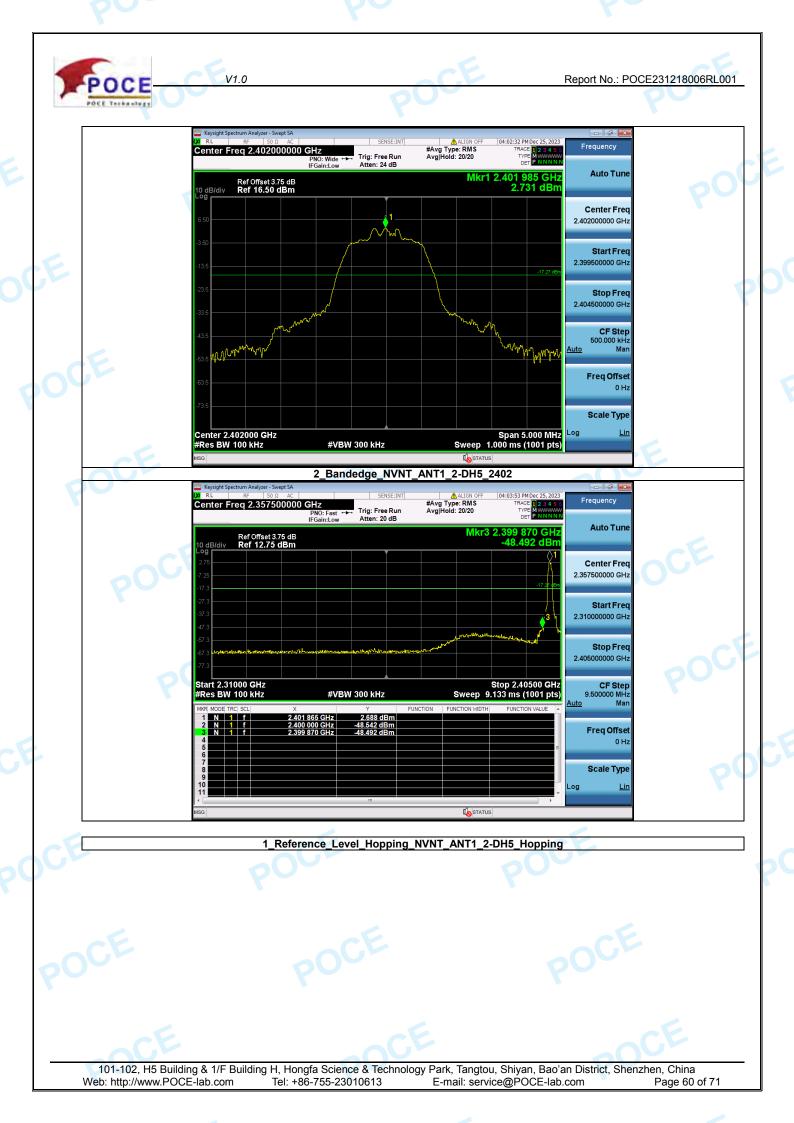
Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-57.470	-22.874	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-50.685	-16.940	Pass
NVNT	ANT1	1-DH5	2480.00	-50.853	-16.996	Pass
NVNT	ANT1	1-DH5	Hopping_HCH 「	-49.791	-16.896	Pass
NVNT	ANT1	2-DH5	2402.00	-48.492	-17.269	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-51.513	-17.040	Pass
NVNT	ANT1	2-DH5	2480.00	-50.589	-16.954	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-50.641	-16.807	Pass







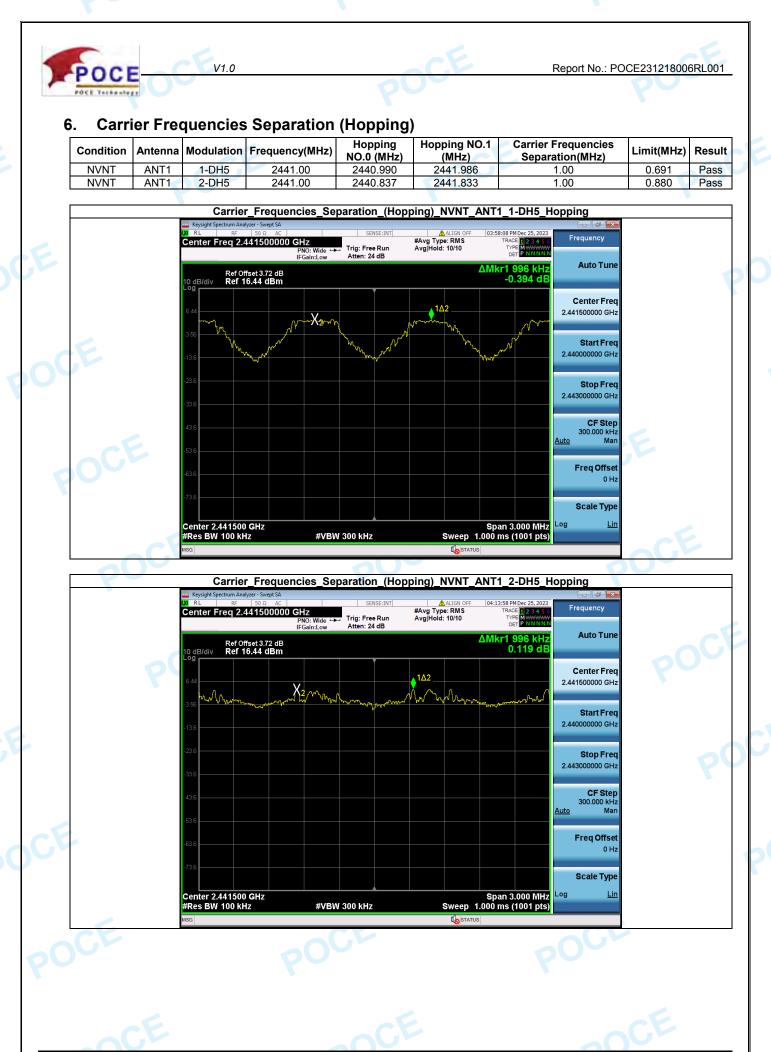






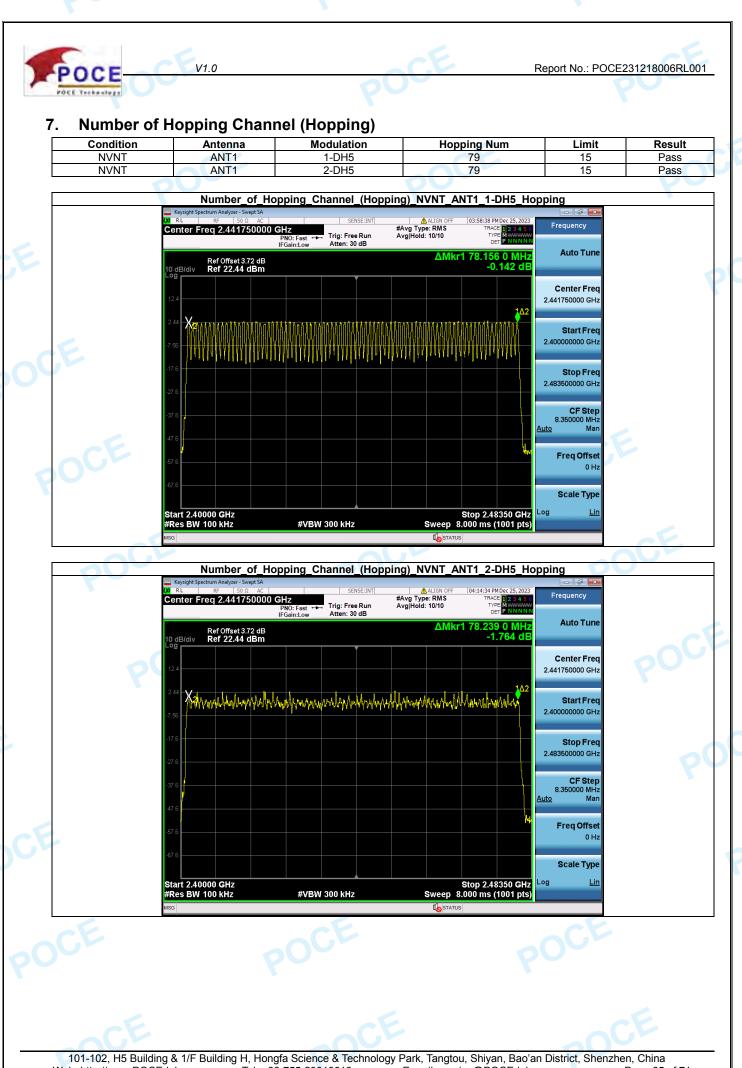






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# 8. Dwell Time (Hopping)

V1.0

