

APPENDIX REPORT

Project No.	SHT2204017202EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT2204172008	Model No.	ABX00051
Start test date	2022-04-24	Finish date	2022-04-24
Temperature	24.8℃	Humidity	45%
Test Engineer	Xiaoqin Li	Auditor	Xiaodong Zheo

Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20 dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequencies Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emissions(coducted)	PASS

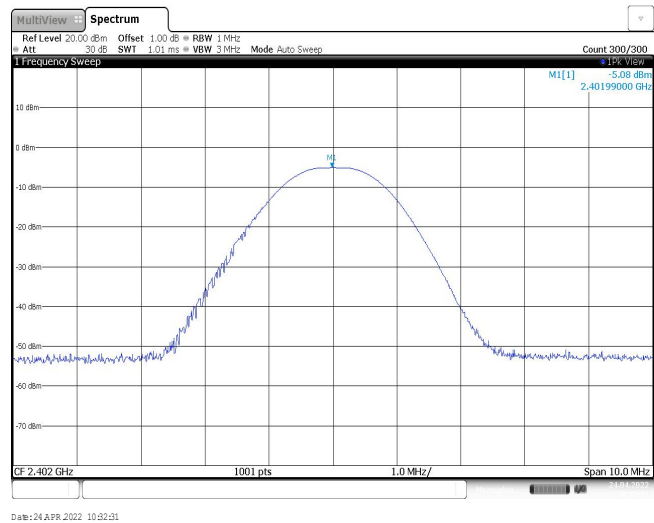
Appendix A: Peak Output Power

Modulation type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	-5.08	-5.10	≤ 30.00	Pass
	39	-5.33	-5.36		
	78	-6.16	-6.18		
$\pi/4$ DQPSK	00	-3.80	-4.21	≤ 21.00	Pass
	39	-4.40	-4.80		
	78	-5.07	-5.52		
8DPSK	00	-3.56	-4.14	≤ 21.00	Pass
	39	-4.04	-4.67		
	78	-4.80	-5.39		

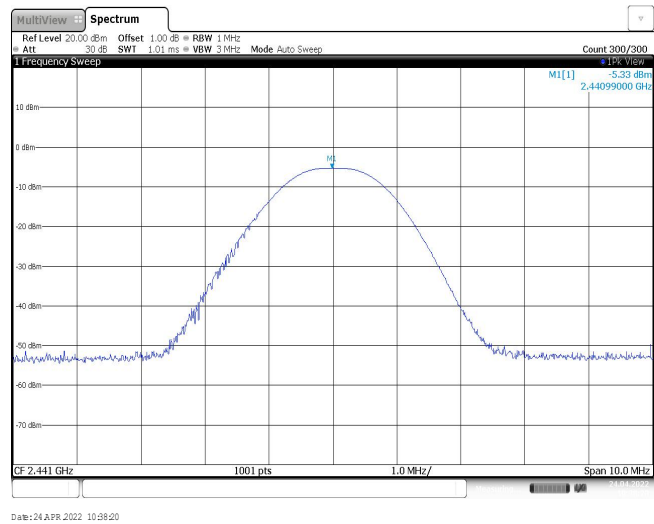
Modulation Type:

GFSK

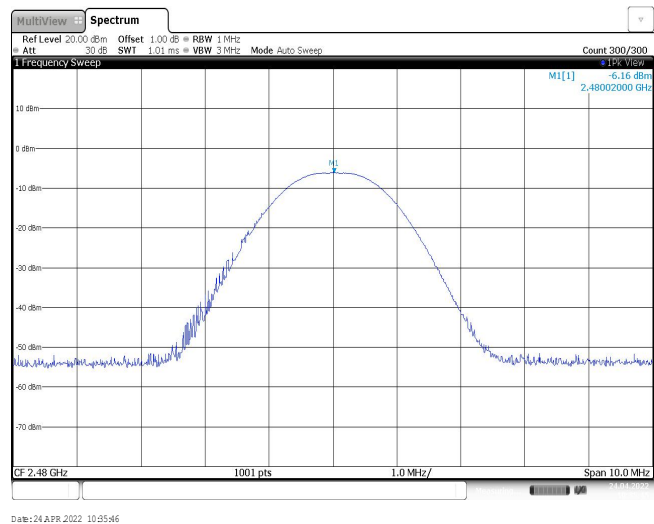
CH00



CH39



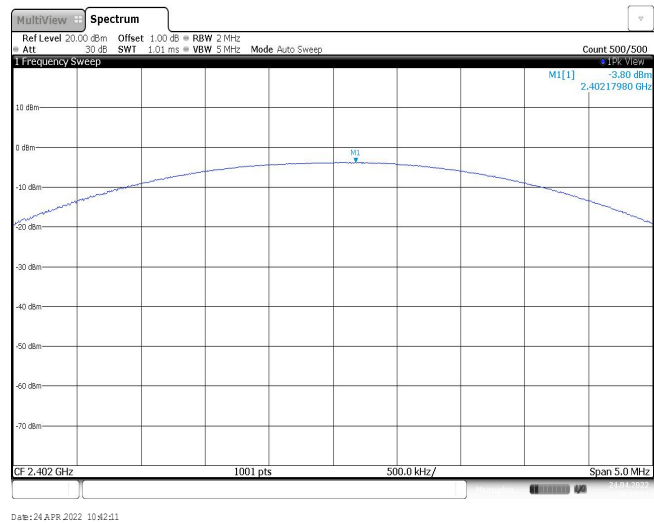
CH78



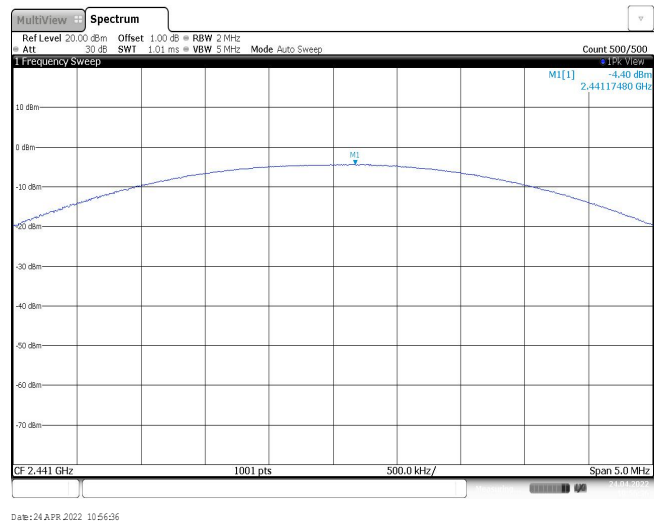
Modulation Type:

 $\pi/4$ DQPSK

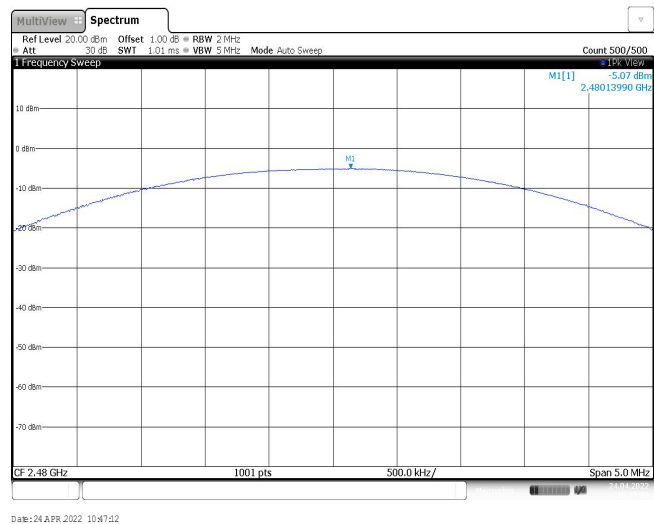
CH00



CH39



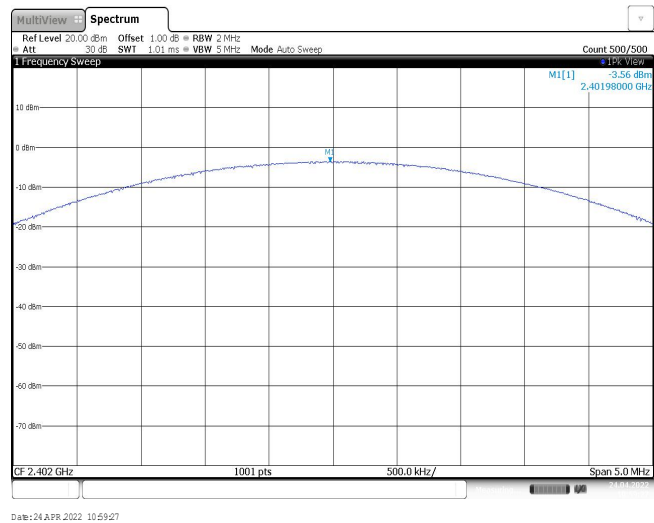
CH78



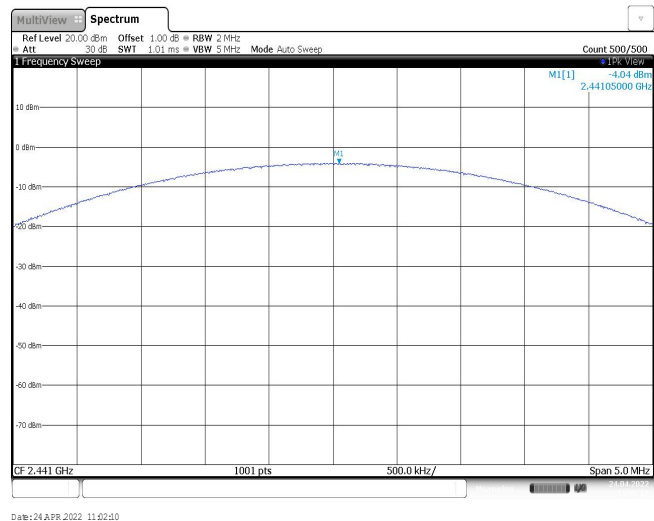
Modulation Type:

8DPSK

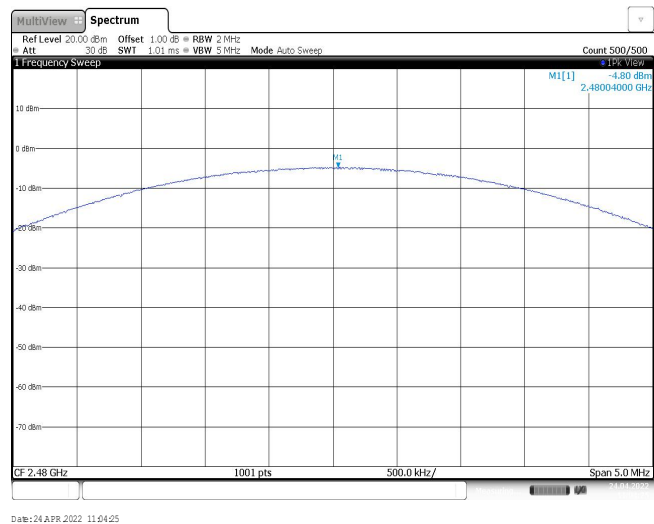
CH00



CH39



CH78



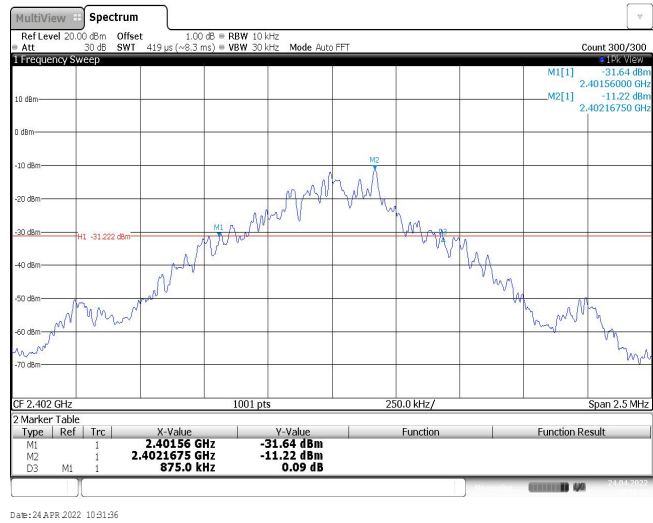
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	875.00	-	Pass
	39	877.50		
	78	877.50		
$\pi/4$ DQPSK	00	1340.00	-	Pass
	39	1340.00		
	78	1340.00		
8DPSK	00	1280.00	-	Pass
	39	1285.00		
	78	1287.50		

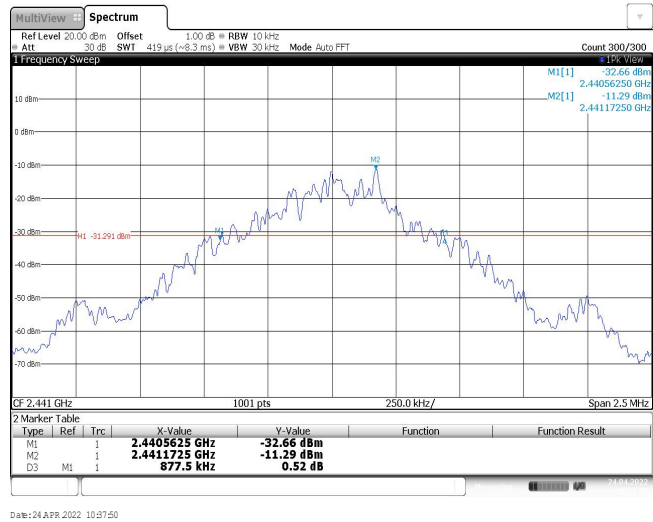
Modulation Type:

GFSK

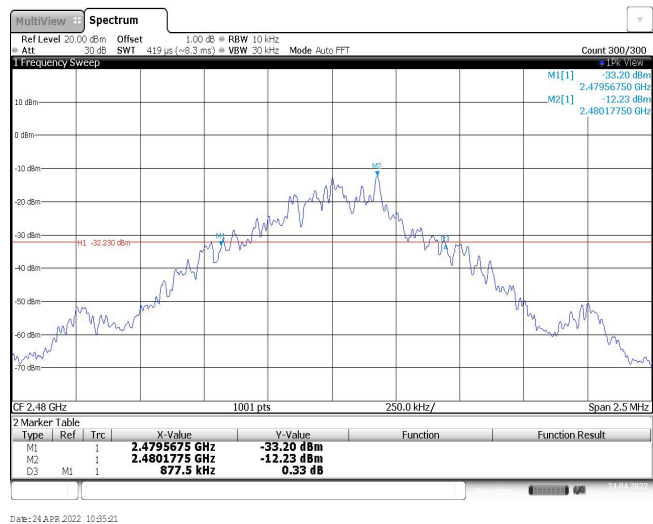
CH00



CH39



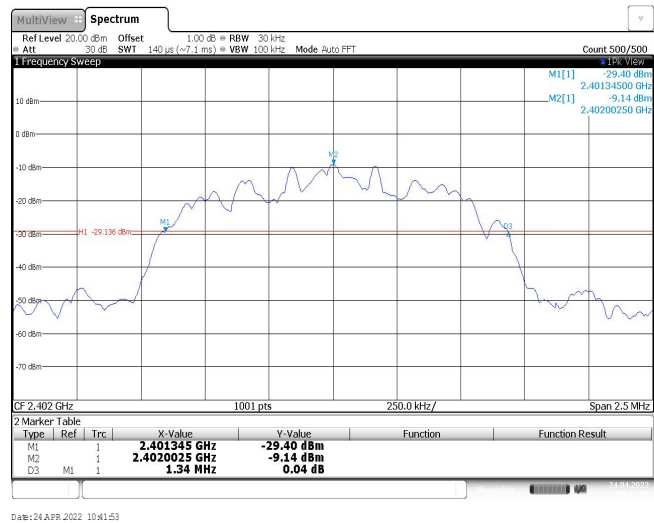
CH78



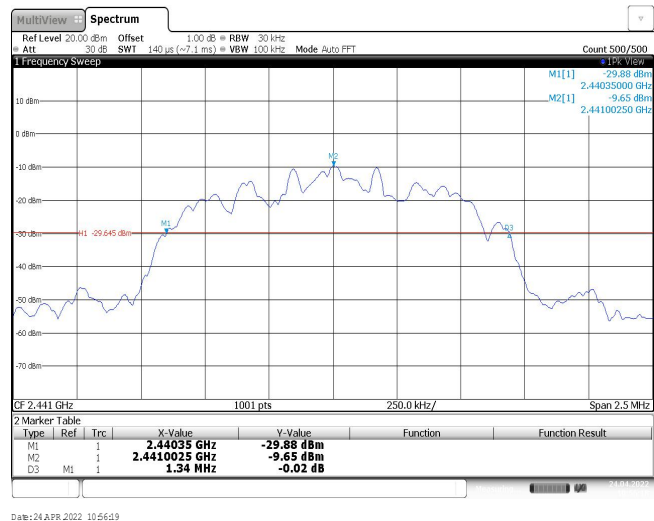
Modulation Type:

 $\pi/4$ DQPSK

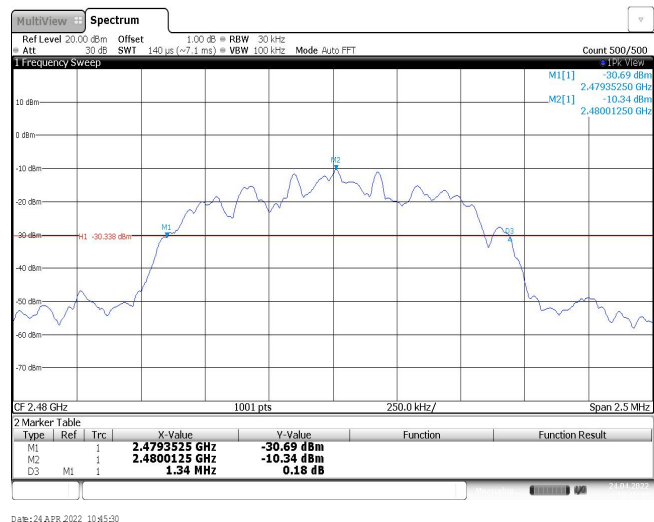
CH00



CH39



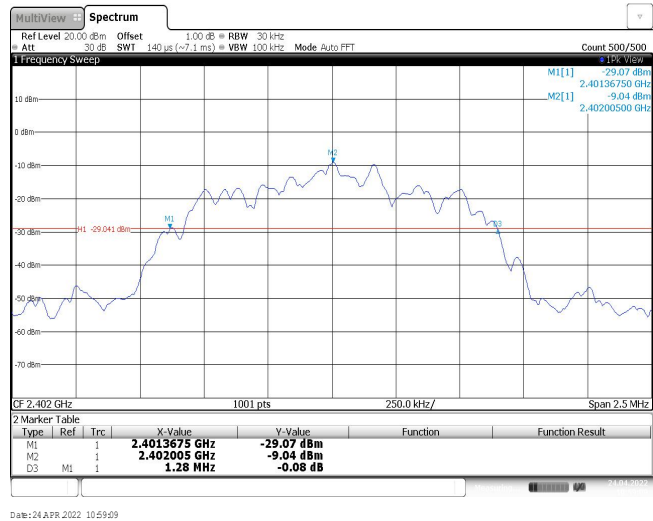
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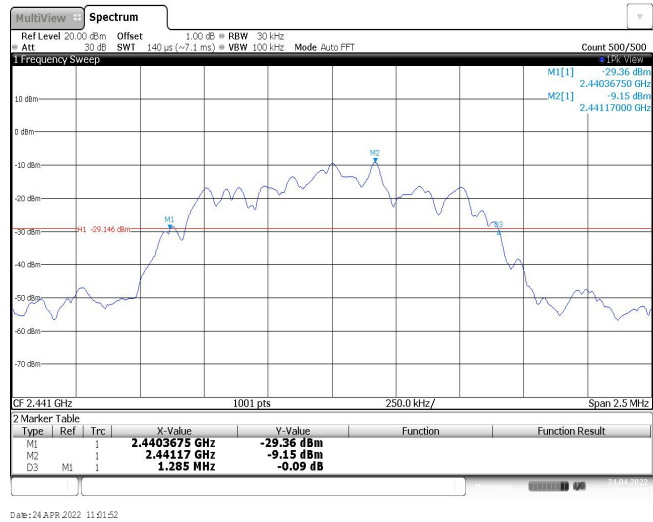
Modulation Type:

8DPSK

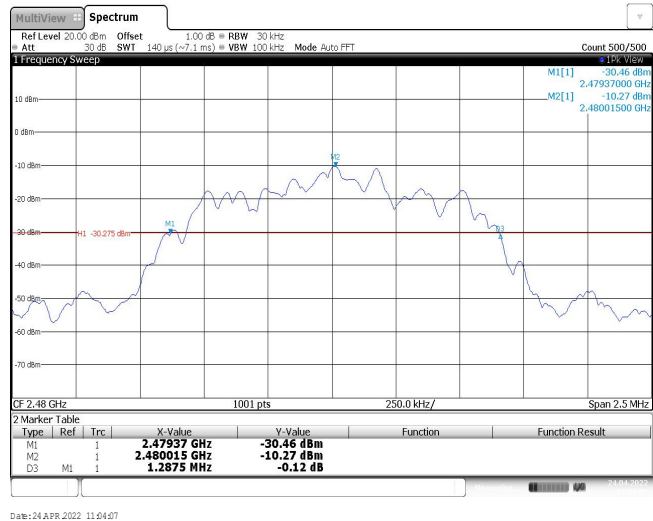
CH00



CH39



CH78



Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.97	-	Pass
	39	0.96		
	78	0.97		
$\pi/4$ DQPSK	00	1.18	-	Pass
	39	1.18		
	78	1.18		
8DPSK	00	1.15	-	Pass
	39	1.15		
	78	1.15		

Modulation Type:

GFSK

CH00



Date: 24 APR 2022 10:31:44

CH39



Date: 24 APR 2022 10:37:59

CH78



Date: 24 APR 2022 10:35:30

Modulation Type:

 $\pi/4$ DQPSK

CH00



Date: 24 APR 2022 10:42:01

CH39



Date: 24 APR 2022 10:56:27

CH78



Date: 24 APR 2022 10:45:39

Modulation Type:

8DPSK

CH00



CH39



CH78



Appendix D: Carrier Frequencies Separation

Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥877.50	Pass
π/4DQPSK	39	1.00	≥893.33	Pass
8DPSK	39	1.00	≥858.33	Pass

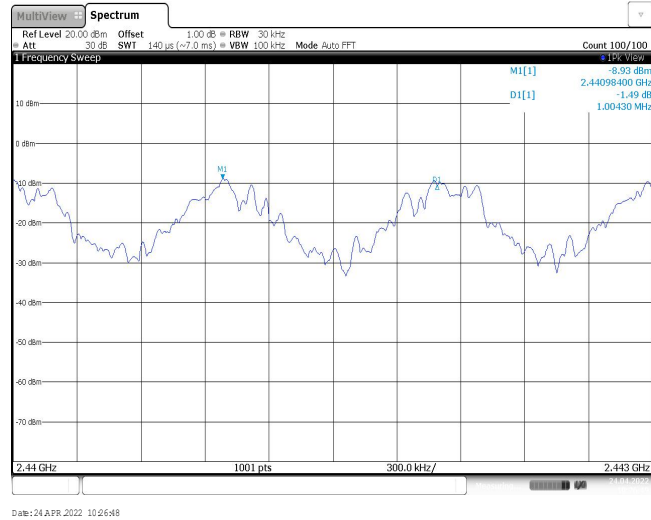
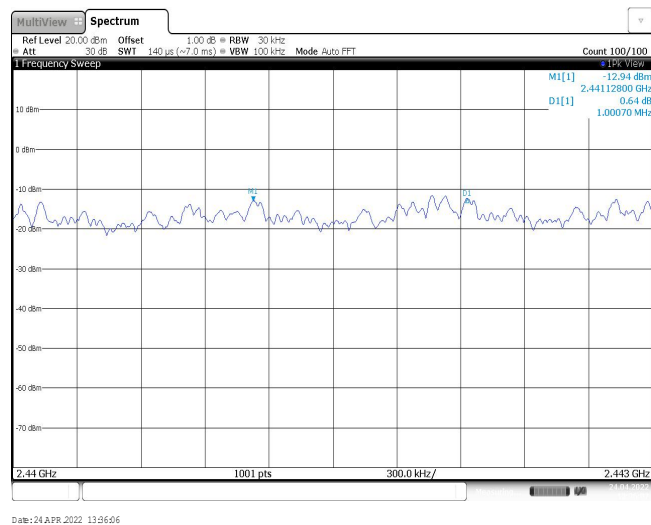
Note:

*: GFSK limit = The maximum 20 dB Bandwidth for GFSK modulation on the appendix B.

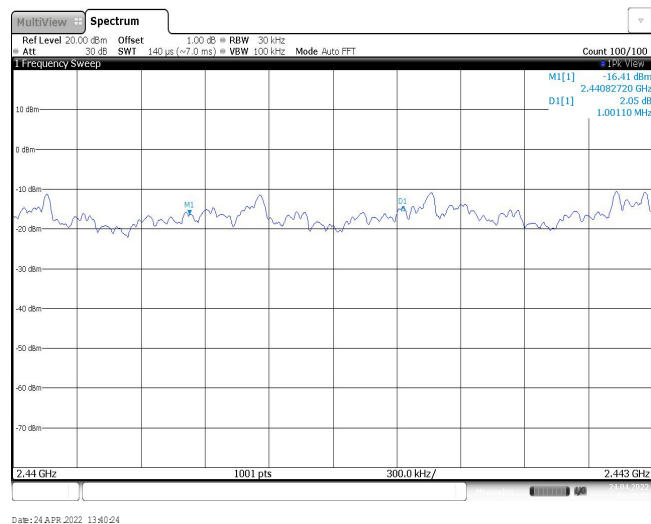
π/4DQPSK limit = $\frac{2}{3}$ * The maximum 20 dB Bandwidth for π/4DQPSK modulation on the appendix B.

8DPSK limit = $\frac{2}{3}$ * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

GFSK

 π /4DQPSK

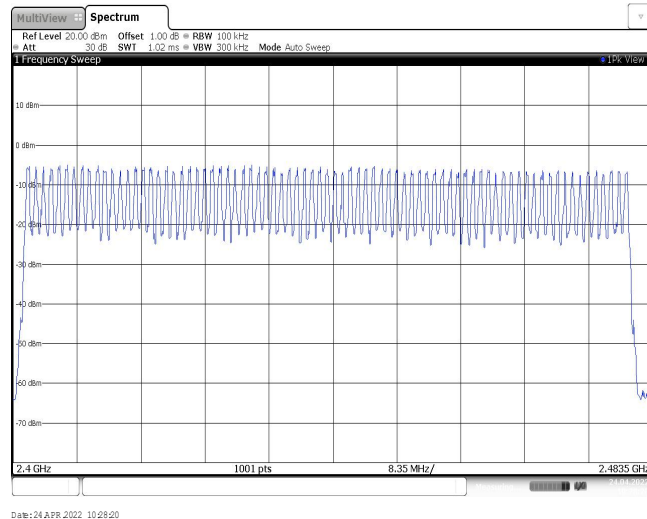
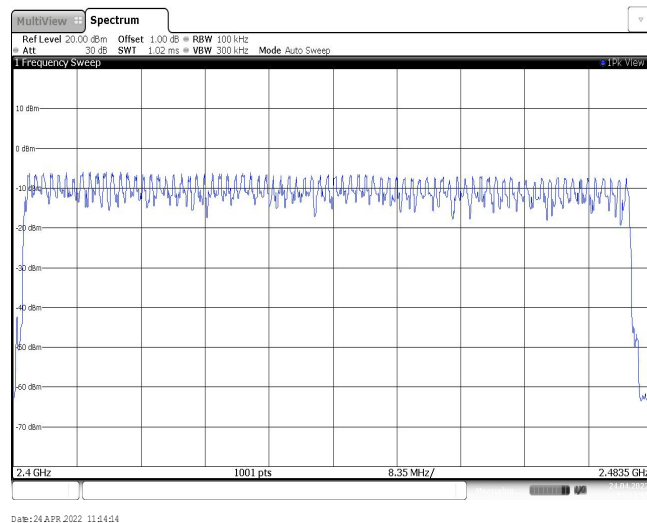
8DPSK



Appendix E: Hopping Channel Number

Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		

GFSK

 $\pi/4$ DQPSK

8DPSK

