

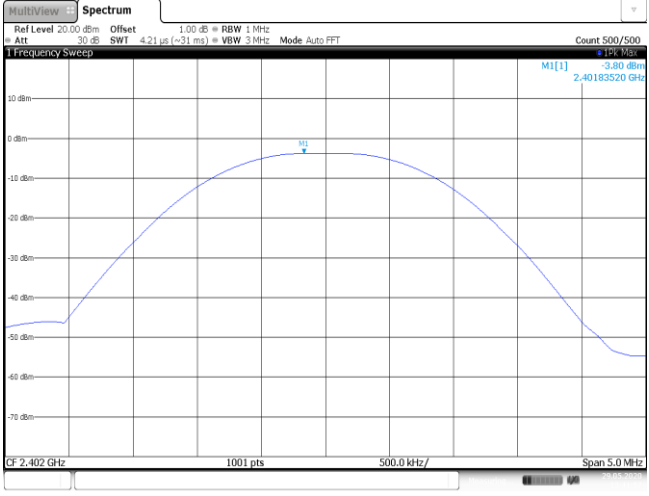
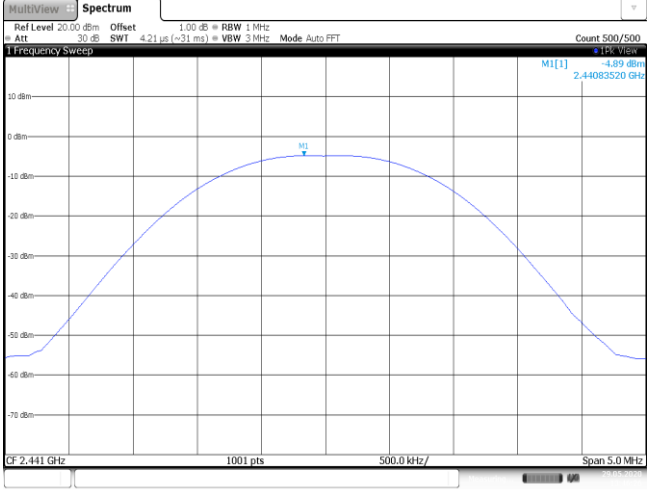
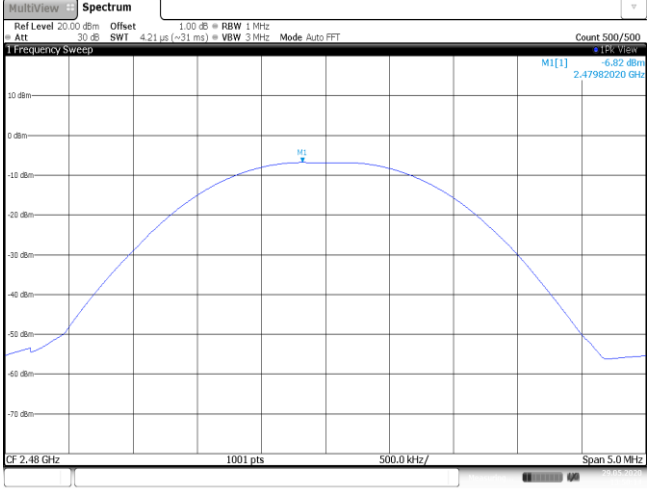
APPENDIX REPORT

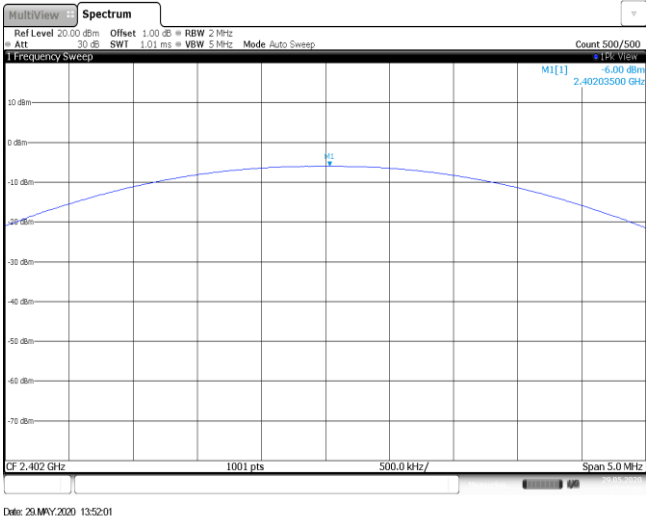
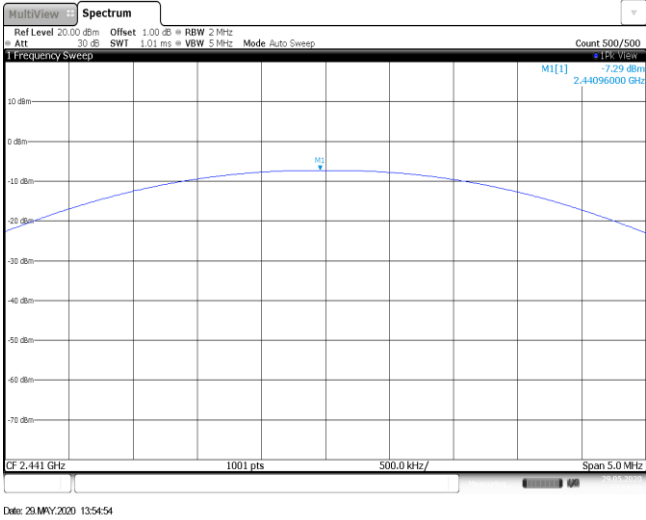
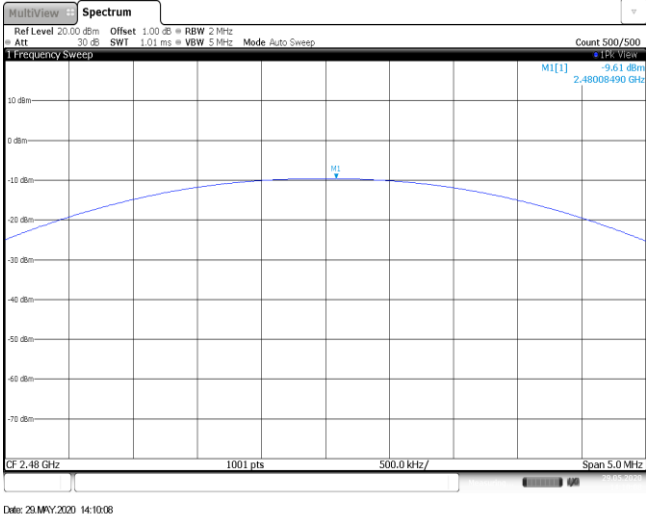
Project No.	SHT2005010401EW	Radio Specification	Bluetooth EDR
Test sample No.	YPHT20050104002	Model No.	A2169
Start test date	2020/5/29	Finish date	2020/5/29
Temperature	25°C	Humidity	50%
Test Engineer	JiongSheng.Feng	Auditor	<i>William.wang</i>

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	Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
GFSK	00	-3.81	-3.86	≤ 30.00	Pass
	39	-4.89	-4.93		
	78	-6.82	-6.88		
$\pi/4$ DQPSK	00	-6.00	-6.35	≤ 21.00	Pass
	39	-7.29	-7.36		
	78	-9.61	-9.70		
8DPSK	00	-7.02	-7.11	≤ 21.00	Pass
	39	-8.28	-8.34		
	78	-10.65	-10.77		

Modulation Type:	GFSK
CH00	 Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 4.21 us (~31 ms) VBW 3 MHz Mode Auto FFT Count 500/500 1 Frequency Sweep M1[1] -3.80 dBm 2.40183520 GHz CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 29.MAY.2020 13:41:56
CH39	 Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 4.21 us (~31 ms) VBW 3 MHz Mode Auto FFT Count 500/500 1 Frequency Sweep M1[1] -4.89 dBm 2.44083520 GHz CF 2.441 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 29.MAY.2020 13:46:26
CH78	 Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz Att 30 dB SWI 4.21 us (~31 ms) VBW 3 MHz Mode Auto FFT Count 500/500 1 Frequency Sweep M1[1] -6.82 dBm 2.47982020 GHz CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 29.MAY.2020 13:50:14

Modulation Type: $\pi/4$ DQPSK	
CH00	 The spectrum plot for CH00 shows a signal centered at 2.402 GHz. The peak level is -6.00 dBm. The plot includes a frequency sweep from 2.402 GHz to 2.407 GHz, with a span of 5.0 MHz. The resolution bandwidth (RBW) is 2 MHz, and the video bandwidth (VBW) is 5 MHz. The plot shows a single peak at the center frequency.
CH39	 The spectrum plot for CH39 shows a signal centered at 2.441 GHz. The peak level is -7.29 dBm. The plot includes a frequency sweep from 2.441 GHz to 2.446 GHz, with a span of 5.0 MHz. The resolution bandwidth (RBW) is 2 MHz, and the video bandwidth (VBW) is 5 MHz. The plot shows a single peak at the center frequency.
CH78	 The spectrum plot for CH78 shows a signal centered at 2.48 GHz. The peak level is -9.61 dBm. The plot includes a frequency sweep from 2.48 GHz to 2.485 GHz, with a span of 5.0 MHz. The resolution bandwidth (RBW) is 2 MHz, and the video bandwidth (VBW) is 5 MHz. The plot shows a single peak at the center frequency.

Modulation Type: 8DPSK	
CH00	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWT 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -7.02 dBm 2.40194510 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 29.MAY.2020 14:12:02
CH39	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWT 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -8.28 dBm 2.44098000 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 29.MAY.2020 14:14:34
CH78	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 2 MHz Att 30 dB SWT 1.01 ms VBW 5 MHz Mode Auto Sweep Count 500/500 1 Frequency Sweep M1[1] -10.69 dBm 2.47992510 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz 1001 pts 500.0 kHz/ Span 5.0 MHz Date: 29.MAY.2020 14:18:24

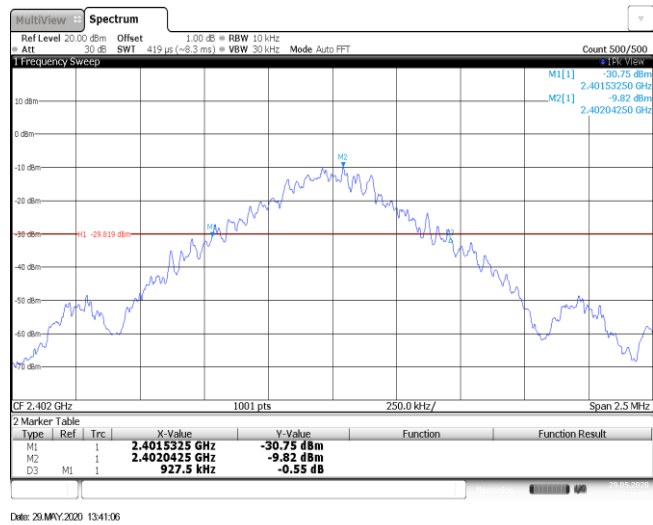
Appendix B : 20 dB Bandwidth

Modulation type	Channel	20 dB Bandwidth (kHz)	Limit (kHz)	Result
GFSK	00	927.50	-	Pass
	39	927.50		
	78	927.50		
$\pi/4$ DQPSK	00	1528.00	-	Pass
	39	1525.00		
	78	1528.00		
8DPSK	00	1487.50	-	Pass
	39	1487.50		
	78	1490.00		

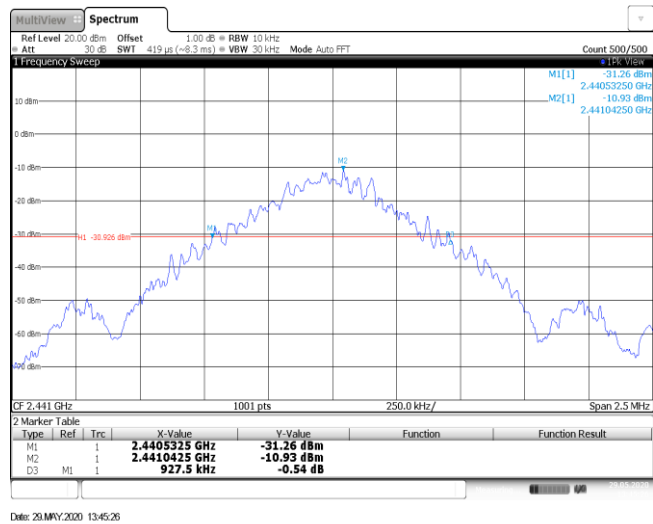
Modulation Type:

GFSK

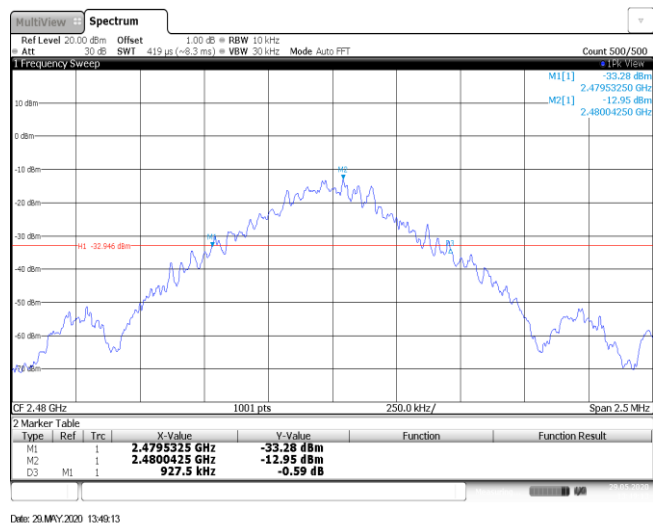
CH00



CH39



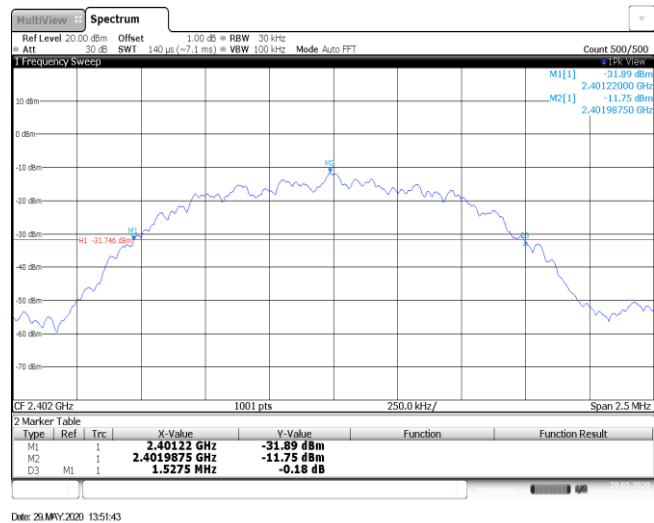
CH78



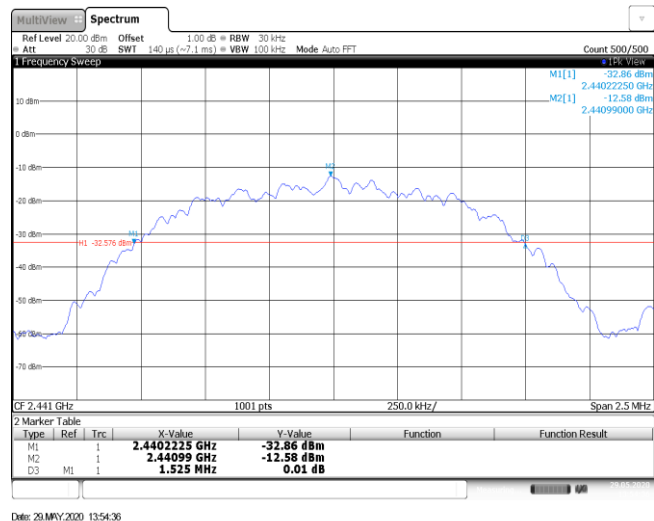
Modulation Type:

 $\pi/4$ DQPSK

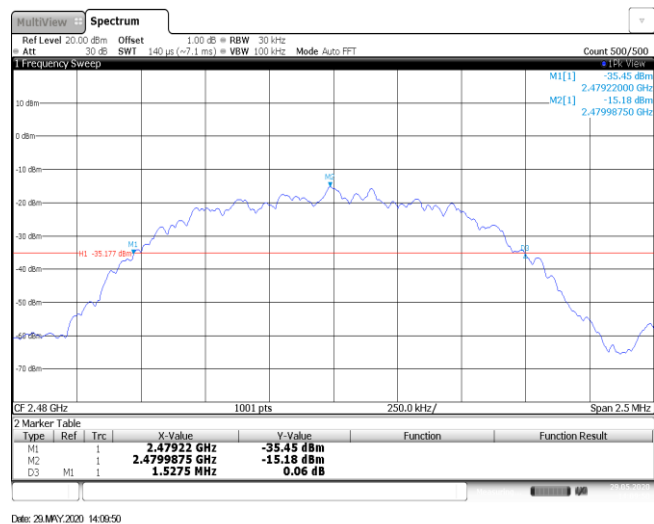
CH00



CH39



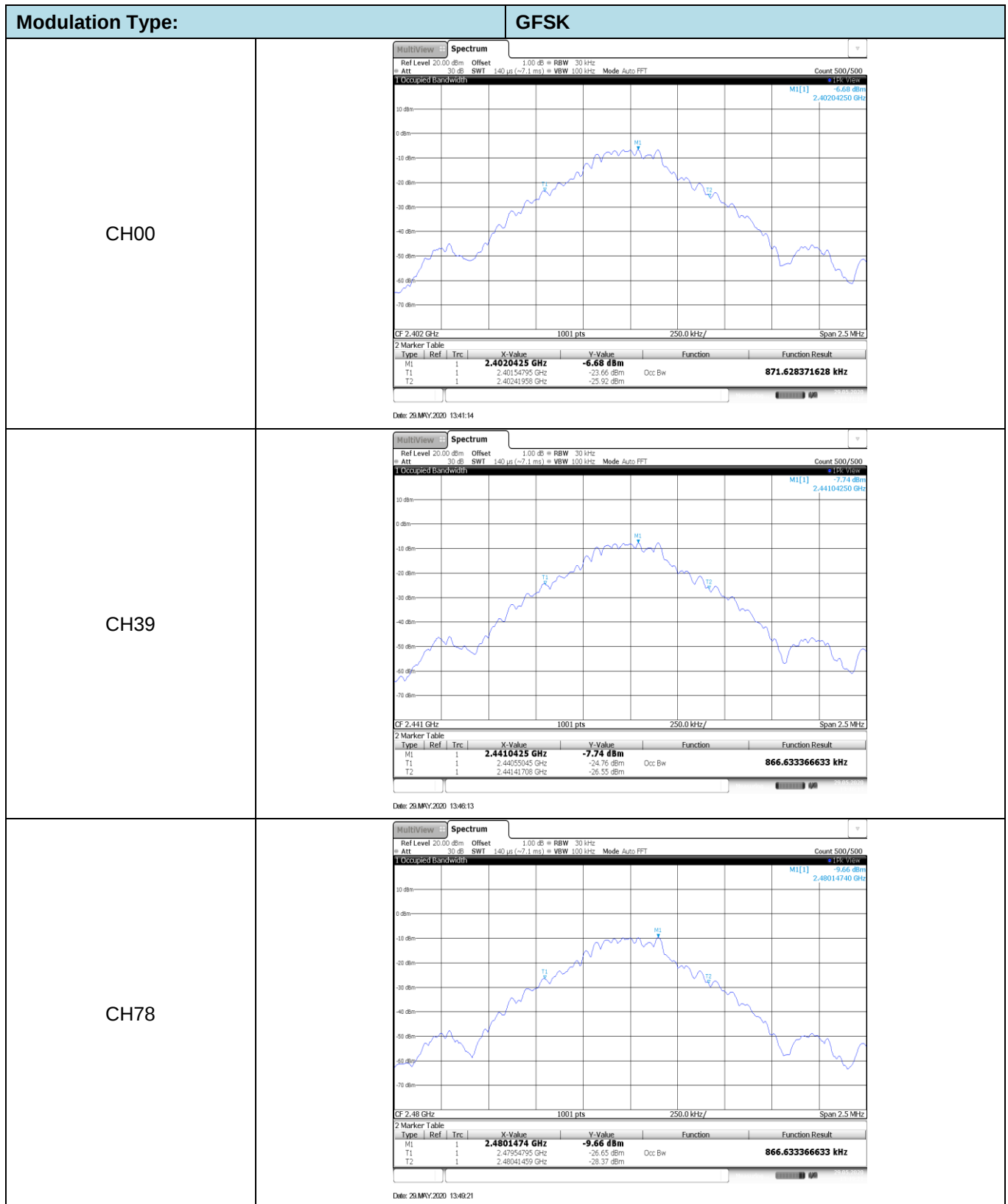
CH78

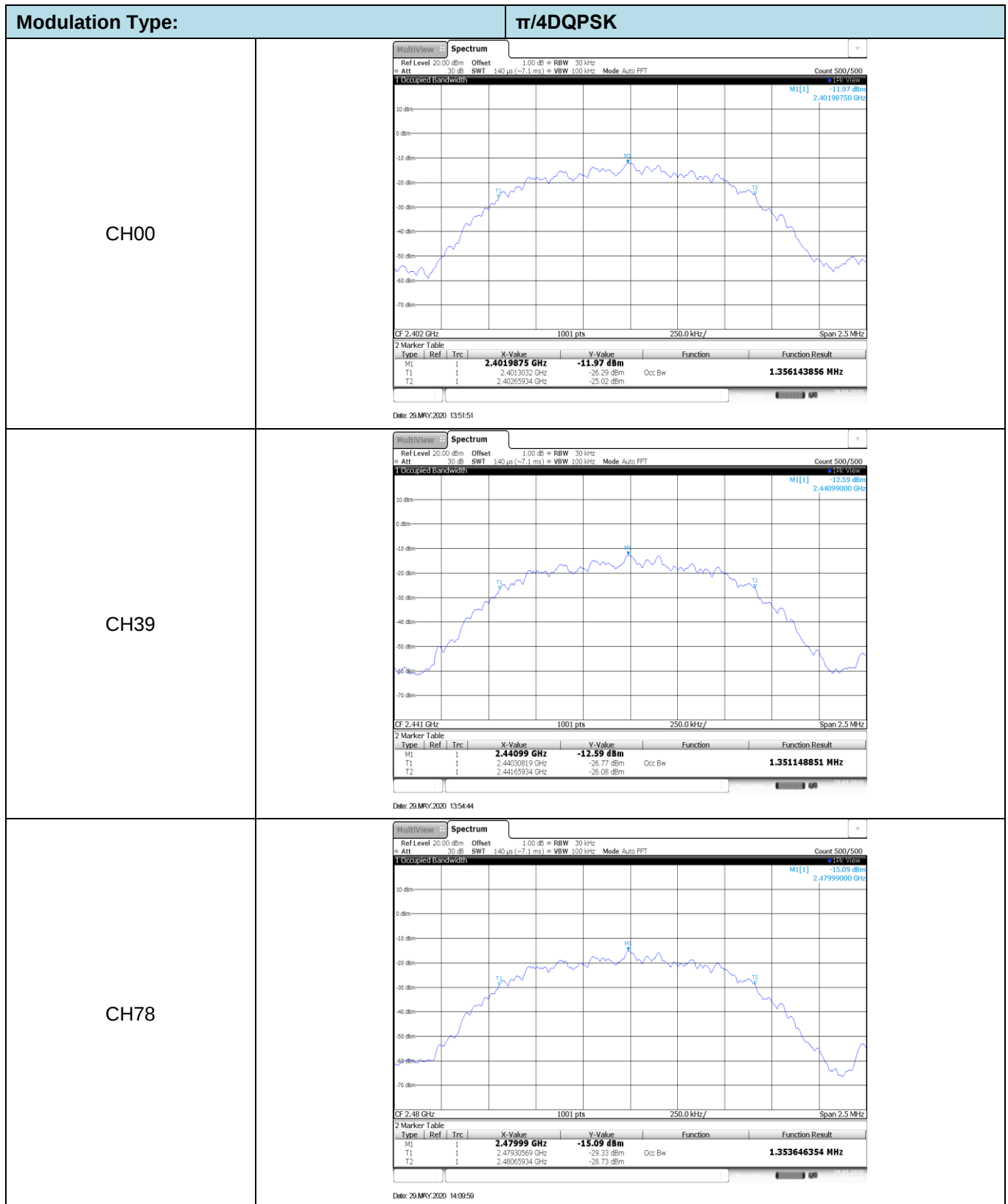


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Appendix C: 99% Occupied Bandwidth

Modulation type	Channel	99% Occupied Bandwidth (MHz)	Limit (MHz)	Result
GFSK	00	0.87	-	Pass
	39	0.87		
	78	0.87		
$\pi/4$ DQPSK	00	1.36	-	Pass
	39	1.35		
	78	1.35		
8DPSK	00	1.36	-	Pass
	39	1.35		
	78	1.36		

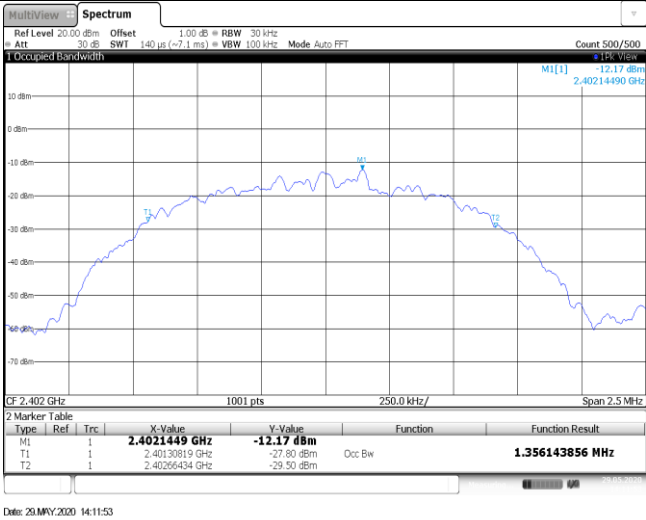




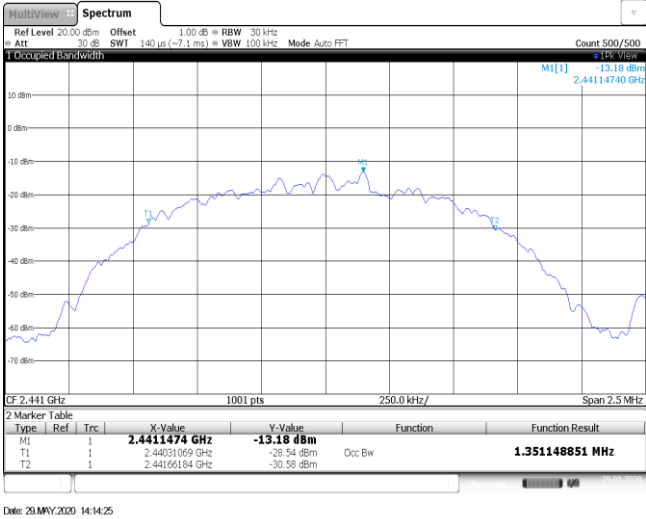
Modulation Type:

8DPSK

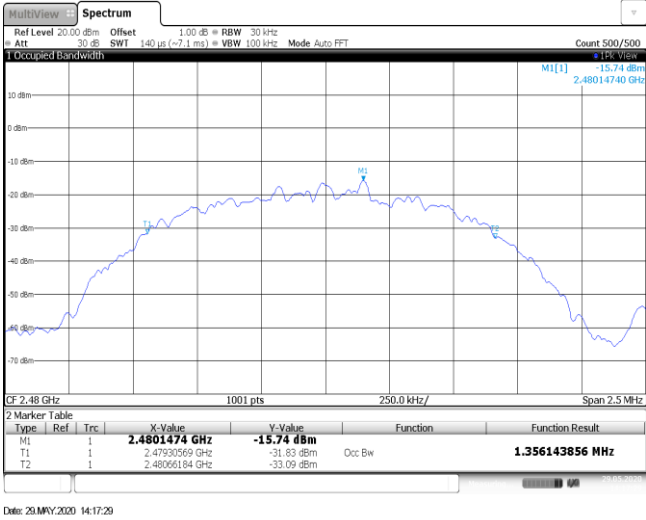
CH00



CH39



CH78



Appendix D: Carrier Frequencies Separation

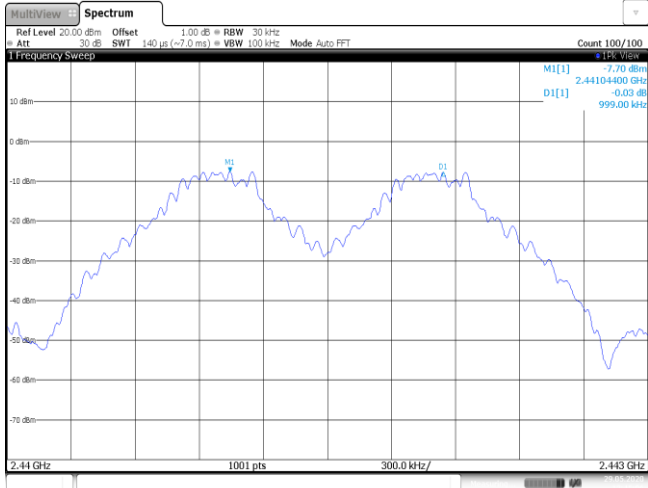
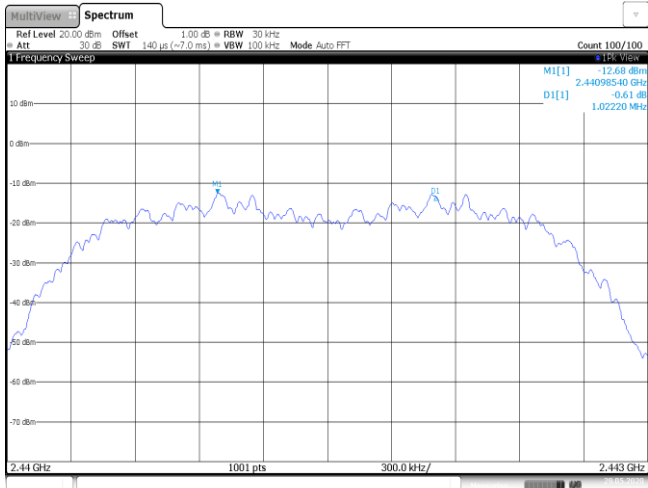
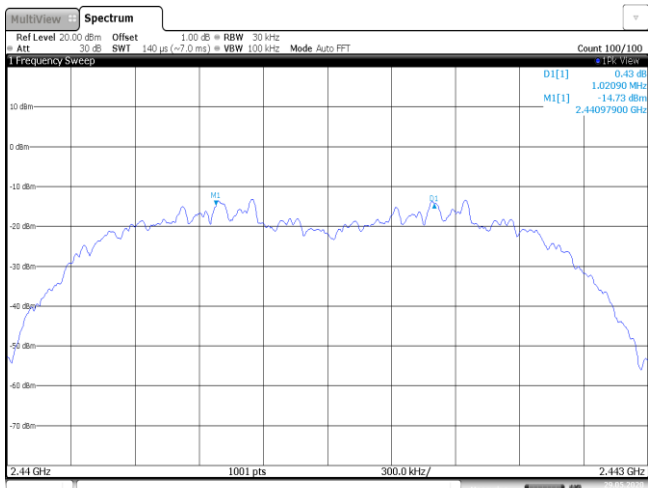
Modulation type	Channel	Carrier Frequencies Separation (MHz)	Limit (kHz) *	Result
GFSK	39	1.00	≥ 927.5	Pass
$\pi/4$ DQPSK	39	1.02	≥ 1018.67	Pass
8DPSK	39	1.00	≥ 993.33	Pass

Note:

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

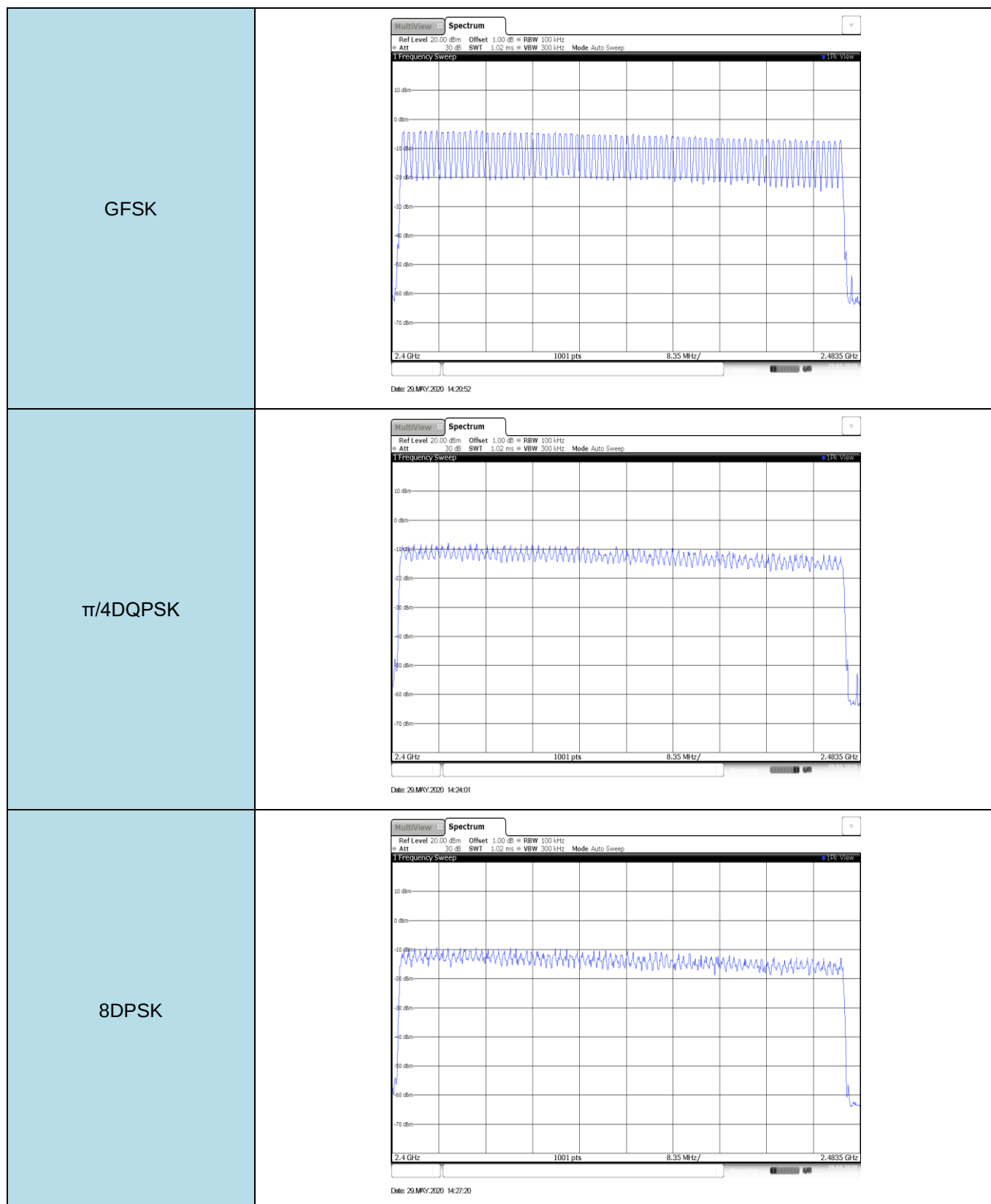
$\pi/4$ DQPSK limit = $2/3$ * The maximum 20 dB Bandwidth for $\pi/4$ DQPSK modulation on the appendix B.

8DPSK limit = $2/3$ * The maximum 20 dB Bandwidth for 8DPSK modulation on the appendix B

GFSK	 Date: 29.MAY.2020 13:45:06
$\pi/4$ DQPSK	 Date: 29.MAY.2020 14:48:59
8DPSK	 Date: 29.MAY.2020 14:51:28

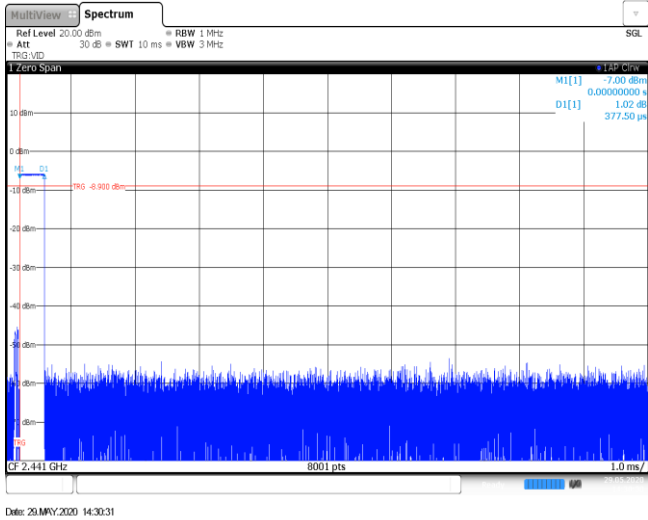
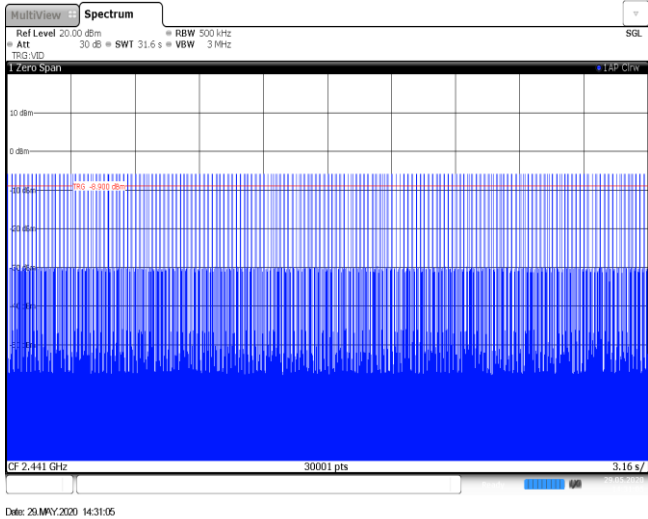
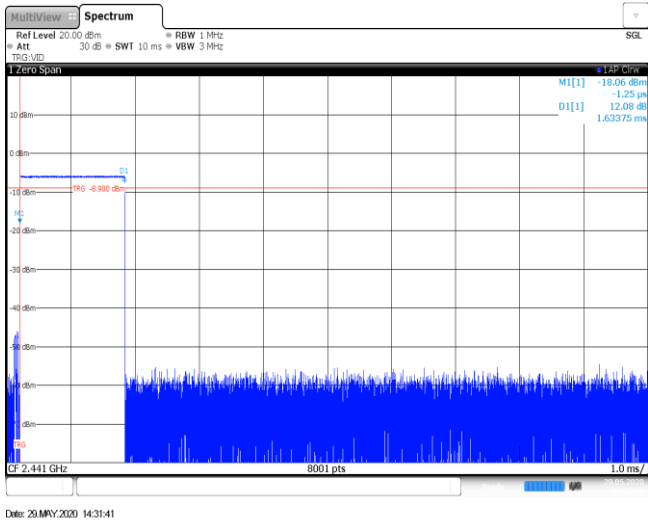
Appendix E: Hopping Channel Number

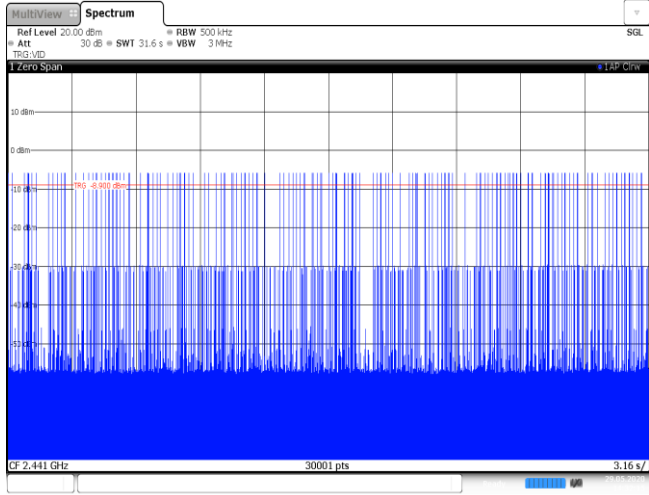
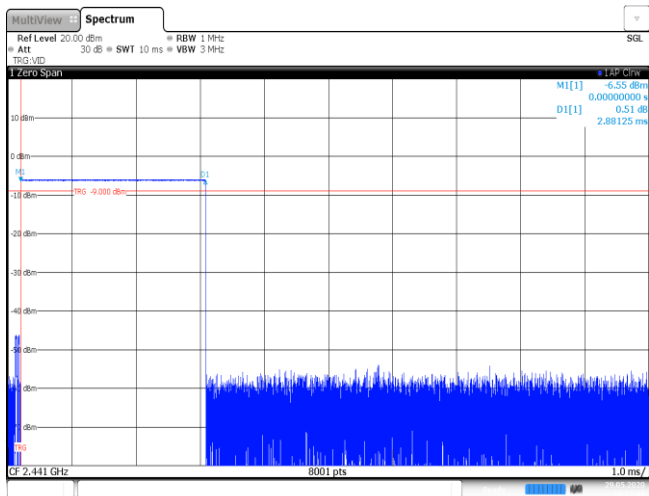
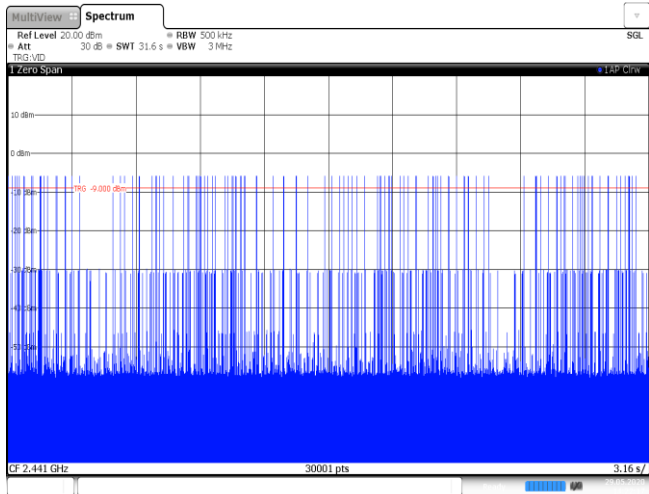
Modulation type	Channel number	Limit	Result
GFSK	79	≥15.00	Pass
π/4DQPSK	79		
8DPSK	79		

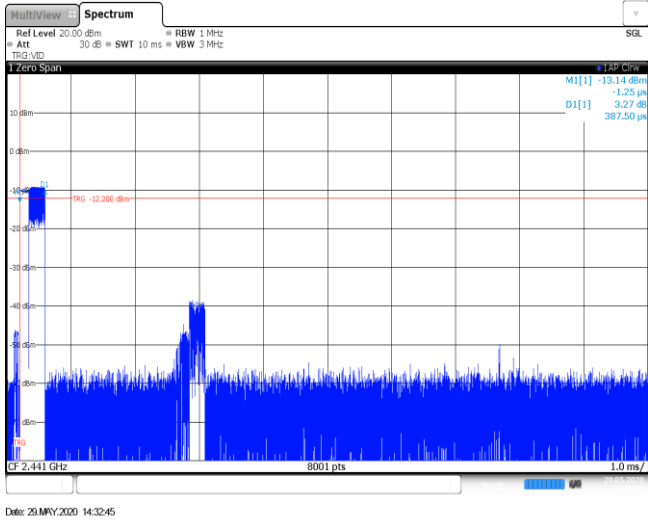
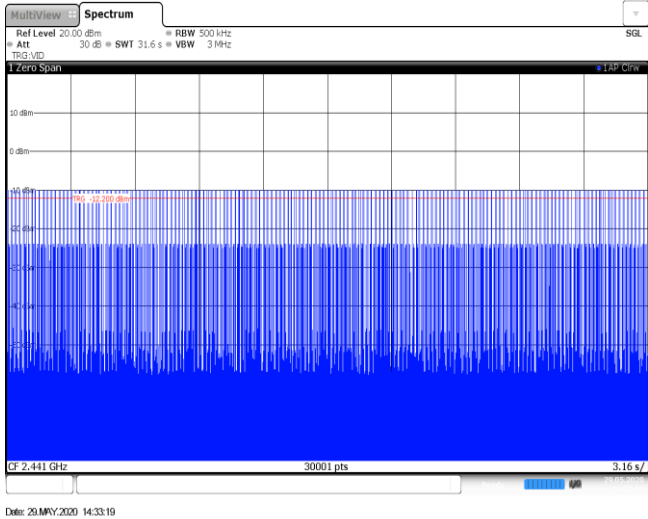
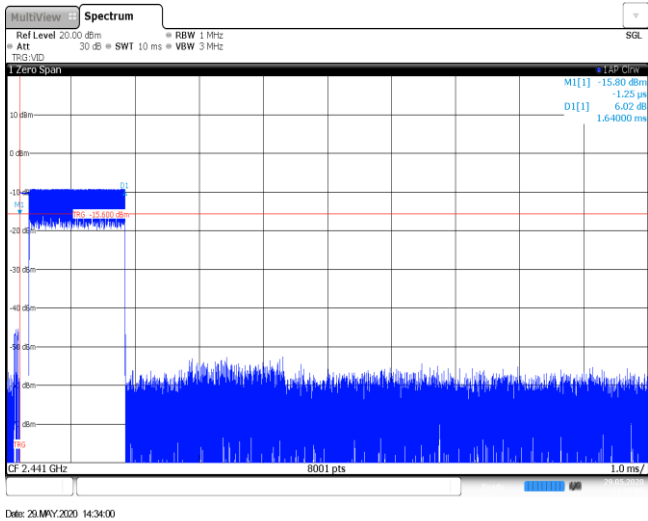


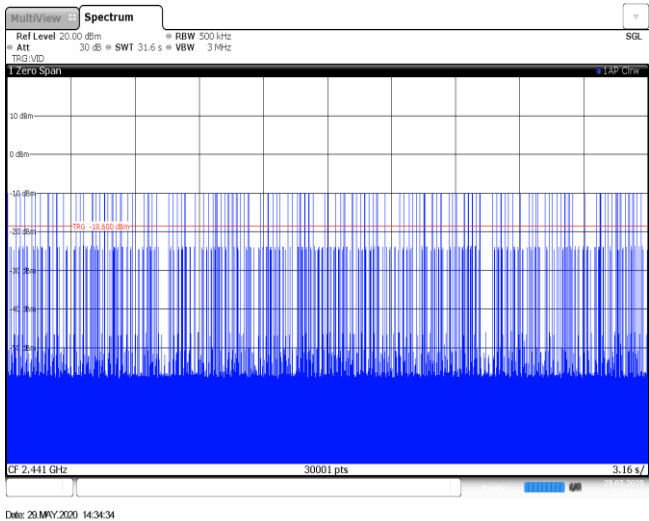
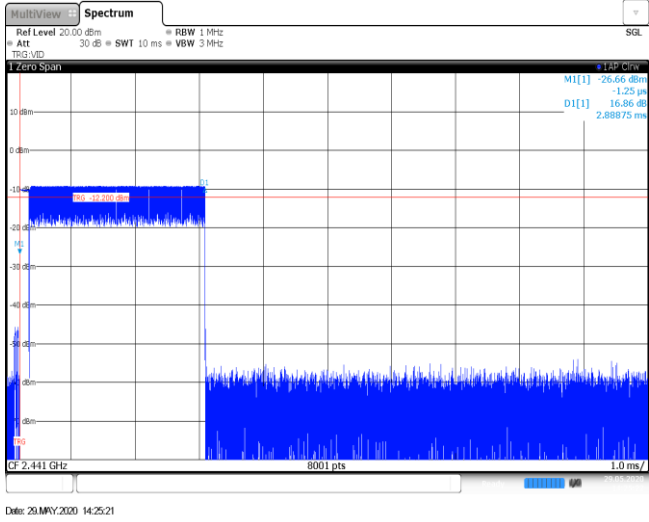
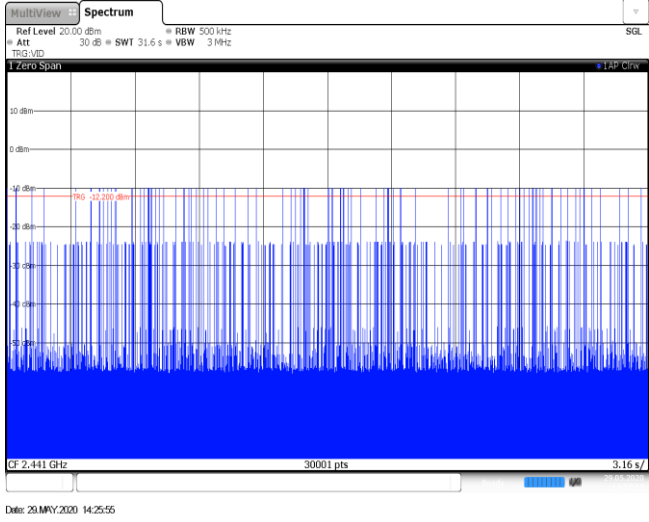
Appendix F: Dwell Time

Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.38	319	0.12	≤ 0.40	Pass
	DH3	1.63	163	0.27		
	DH5	2.88	115	0.33		
$\pi/4$ DQPSK	2DH1	0.39	319	0.12	≤ 0.40	Pass
	2DH3	1.64	157	0.26		
	2DH5	2.89	96	0.28		
8DPSK	3DH1	0.39	320	0.12	≤ 0.40	Pass
	3DH3	1.64	157	0.26		
	3DH5	2.89	113	0.33		

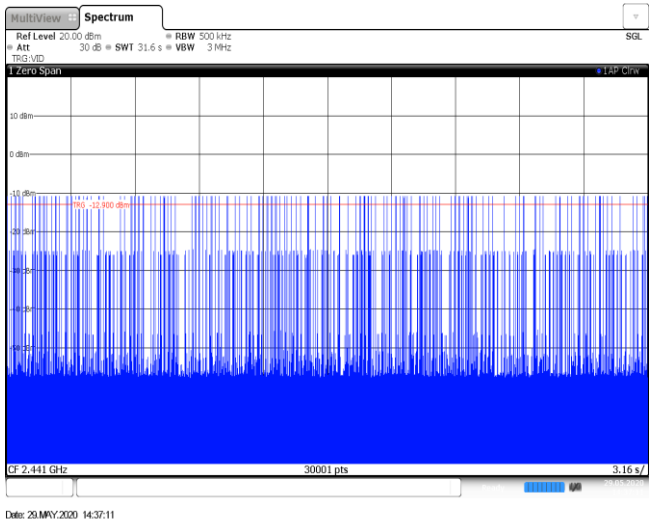
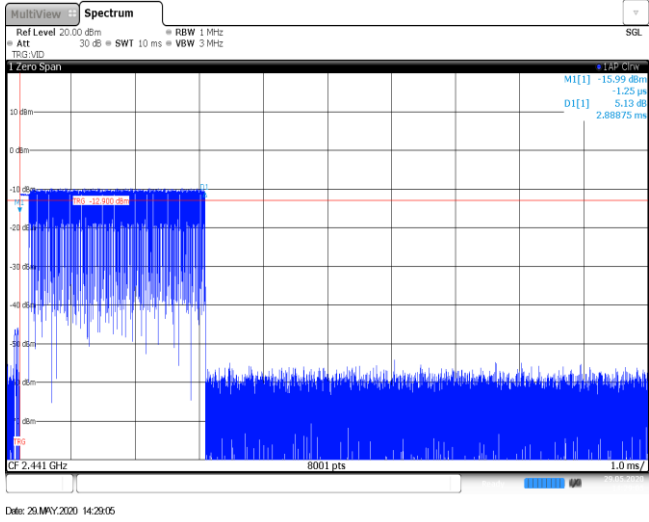
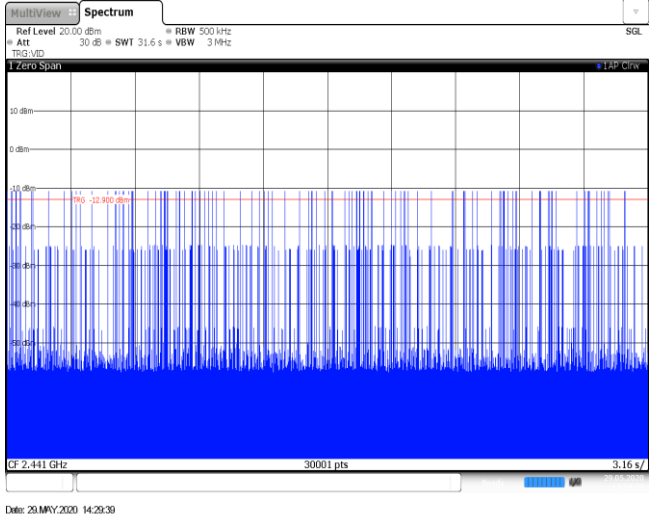
Modulation Type: GFSK	
DH1 Burst width	
DH1 Burst number	
DH3 Burst width	

DH3 Burst number	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red horizontal line is drawn at -10 dBm. The plot shows a dense, noisy signal across the entire frequency range. The status bar at the bottom indicates 'CF 2.441 GHz', '30001 pts', and '3.16 s'. The date and time are 'Date: 29.MAY.2020 14:32:15'.
DH5 Burst width	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red horizontal line is drawn at -10 dBm. The plot shows a signal that is mostly flat at the noise floor, with a small, sharp peak at the center frequency. The status bar at the bottom indicates 'CF 2.441 GHz', '8001 pts', and '1.0 ms'. The date and time are 'Date: 29.MAY.2020 14:21:43'.
DH5 Burst number	 The screenshot shows a spectrum analyzer interface with the title 'Spectrum'. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, centered at 2.441 GHz. A red horizontal line is drawn at -10 dBm. The plot shows a dense, noisy signal across the entire frequency range, similar to the DH3 plot. The status bar at the bottom indicates 'CF 2.441 GHz', '30001 pts', and '3.16 s'. The date and time are 'Date: 29.MAY.2020 14:22:17'.

Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	
2DH1 Burst number	
2DH3 Burst width	

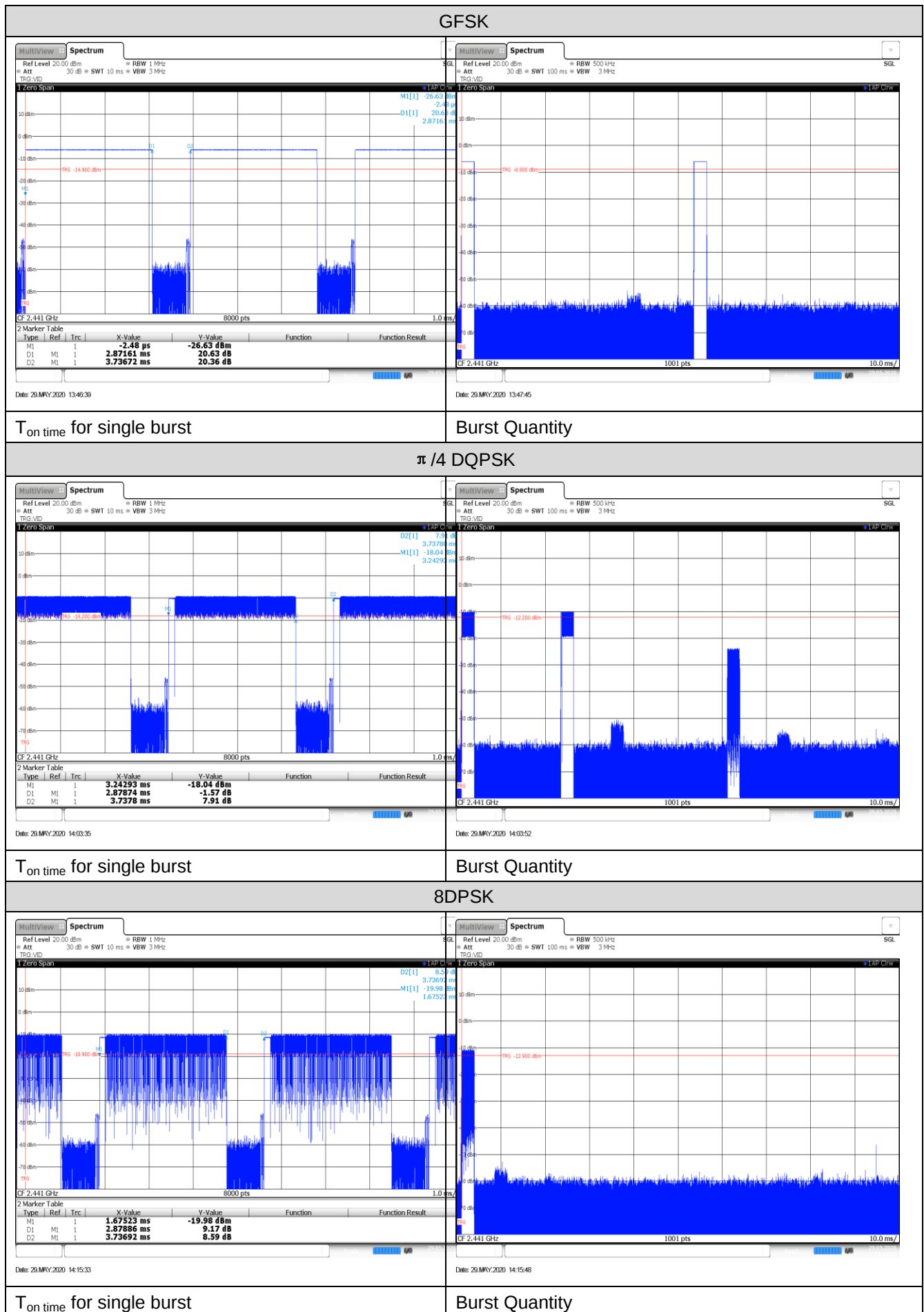
2DH3 Burst number	
2DH5 Burst width	
2DH5 Burst number	

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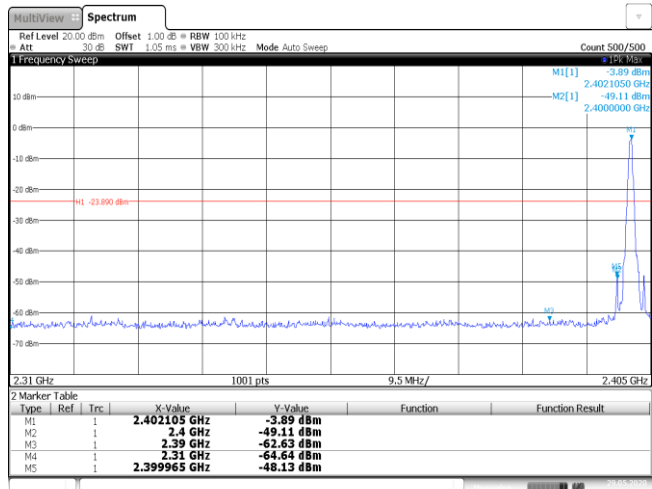
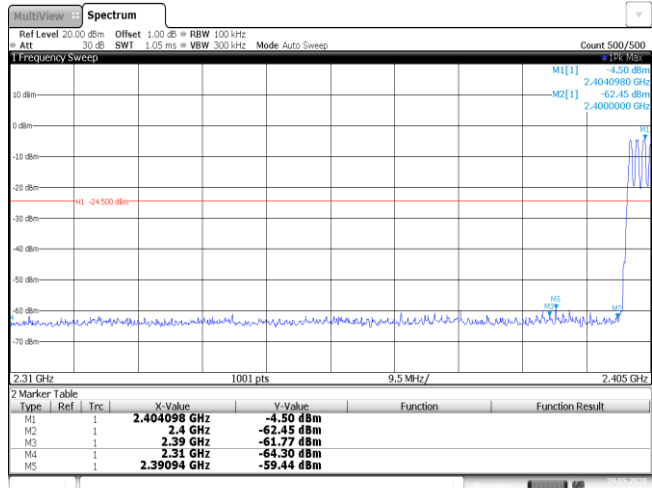
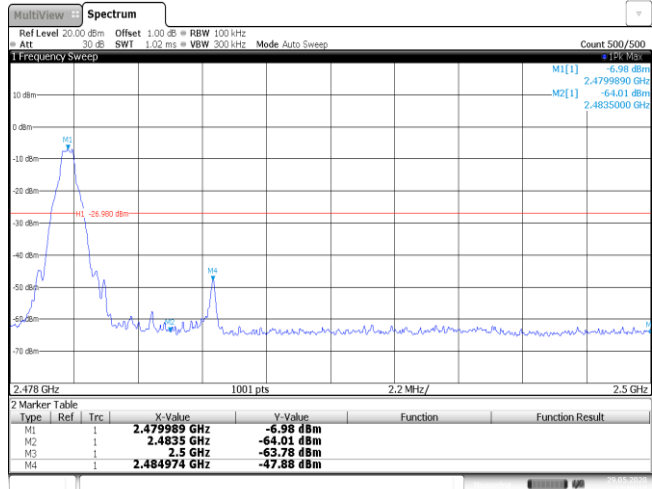
3DH3 Burst number	
3DH5 Burst width	
3DH5 Burst number	

Appendix G: Duty Cycle Correction Factor (DCCF)

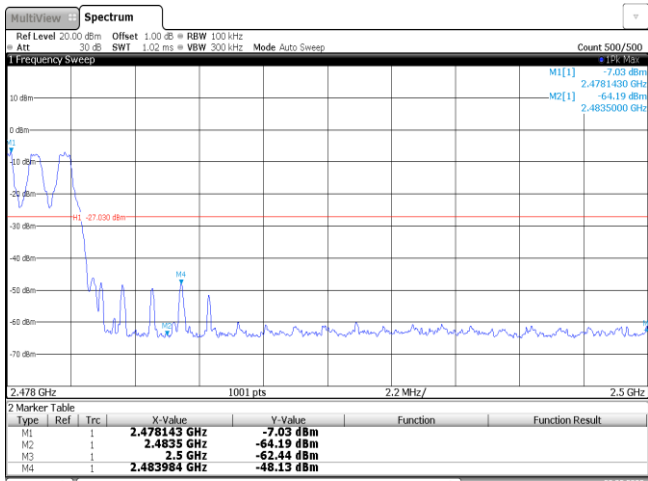
DCCF Calculate Formula					
DCCF=20 * Log(duty cycle) = 20 * Log($T_{\text{on time}} / T_{\text{period}}$)					
Modulation type	Test Frequency (MHz)	$T_{\text{on time}}$ for single burst [ms]	T_{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.87	100	2.00	-24.82
$\pi/4$ DQPSK	2441	2.88	100	3.00	-21.27
8DPSK	2441	2.88	100	1.00	-30.81



Appendix H: Band edge and Spurious Emissions (conducted)

Test Item:	Band edge	Modulation type:	GFSK																																										
CH00 No hopping mode	 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.402103 GHz</td><td>-3.89 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-49.11 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.63 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.64 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399965 GHz</td><td>-48.13 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 13:43:04	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402103 GHz	-3.89 dBm			M2	1		2.4 GHz	-49.11 dBm			M3	1		2.39 GHz	-62.63 dBm			M4	1		2.31 GHz	-64.64 dBm			M5	1		2.399965 GHz	-48.13 dBm				
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.402103 GHz	-3.89 dBm																																									
M2	1		2.4 GHz	-49.11 dBm																																									
M3	1		2.39 GHz	-62.63 dBm																																									
M4	1		2.31 GHz	-64.64 dBm																																									
M5	1		2.399965 GHz	-48.13 dBm																																									
CH00 Hopping mode	 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.404098 GHz</td><td>-4.50 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-62.45 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-61.77 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.30 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39094 GHz</td><td>-59.44 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 14:21:06	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404098 GHz	-4.50 dBm			M2	1		2.4 GHz	-62.45 dBm			M3	1		2.39 GHz	-61.77 dBm			M4	1		2.31 GHz	-64.30 dBm			M5	1		2.39094 GHz	-59.44 dBm				
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.404098 GHz	-4.50 dBm																																									
M2	1		2.4 GHz	-62.45 dBm																																									
M3	1		2.39 GHz	-61.77 dBm																																									
M4	1		2.31 GHz	-64.30 dBm																																									
M5	1		2.39094 GHz	-59.44 dBm																																									
CH78 No hopping mode	 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.479989 GHz</td><td>-5.98 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.48335 GHz</td><td>-64.01 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.78 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484974 GHz</td><td>-47.88 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 13:50:28	Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479989 GHz	-5.98 dBm			M2	1		2.48335 GHz	-64.01 dBm			M3	1		2.5 GHz	-63.78 dBm			M4	1		2.484974 GHz	-47.88 dBm											
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479989 GHz	-5.98 dBm																																									
M2	1		2.48335 GHz	-64.01 dBm																																									
M3	1		2.5 GHz	-63.78 dBm																																									
M4	1		2.484974 GHz	-47.88 dBm																																									

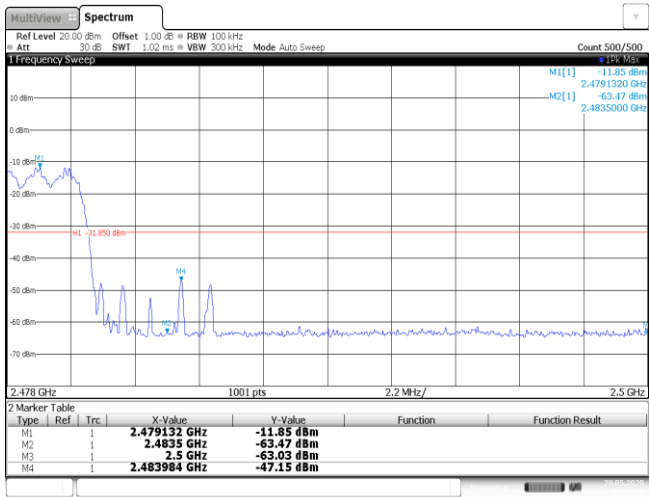
CH78
Hopping mode



Date: 29.MAY.2020 14:21:31

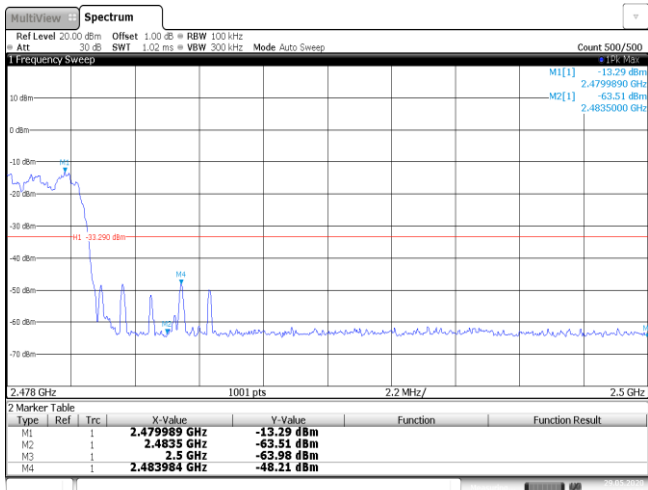
Test Item:	Band edge	Modulation type:	$\pi/4$ DQPSK																																										
CH00 No hopping mode	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] -8.08 dBm 2.4020100 GHz M2[1] -54.46 dBm 2.4000000 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40201 GHz</td><td>-8.08 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-54.46 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-64.25 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.95 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399585 GHz</td><td>-53.28 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 13:52:14			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.40201 GHz	-8.08 dBm			M2	1		2.4 GHz	-54.46 dBm			M3	1		2.39 GHz	-64.25 dBm			M4	1		2.31 GHz	-63.95 dBm			M5	1		2.399585 GHz	-53.28 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.40201 GHz	-8.08 dBm																																									
M2	1		2.4 GHz	-54.46 dBm																																									
M3	1		2.39 GHz	-64.25 dBm																																									
M4	1		2.31 GHz	-63.95 dBm																																									
M5	1		2.399585 GHz	-53.28 dBm																																									
CH00 Hopping mode	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] -8.29 dBm 2.4040030 GHz M2[1] -56.21 dBm 2.4000000 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.404003 GHz</td><td>-8.29 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-56.21 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-63.31 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.01 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39968 GHz</td><td>-54.65 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 14:24:37			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404003 GHz	-8.29 dBm			M2	1		2.4 GHz	-56.21 dBm			M3	1		2.39 GHz	-63.31 dBm			M4	1		2.31 GHz	-64.01 dBm			M5	1		2.39968 GHz	-54.65 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.404003 GHz	-8.29 dBm																																									
M2	1		2.4 GHz	-56.21 dBm																																									
M3	1		2.39 GHz	-63.31 dBm																																									
M4	1		2.31 GHz	-64.01 dBm																																									
M5	1		2.39968 GHz	-54.65 dBm																																									
CH78 No hopping mode	MultiView Spectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.02 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] -11.74 dBm 2.4799670 GHz M2[1] -64.30 dBm 2.4835000 GHz 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.479967 GHz</td><td>-11.74 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-64.30 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.23 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484974 GHz</td><td>-47.62 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 14:10:22			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.479967 GHz	-11.74 dBm			M2	1		2.4835 GHz	-64.30 dBm			M3	1		2.5 GHz	-63.23 dBm			M4	1		2.484974 GHz	-47.62 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.479967 GHz	-11.74 dBm																																									
M2	1		2.4835 GHz	-64.30 dBm																																									
M3	1		2.5 GHz	-63.23 dBm																																									
M4	1		2.484974 GHz	-47.62 dBm																																									

CH78
Hopping mode

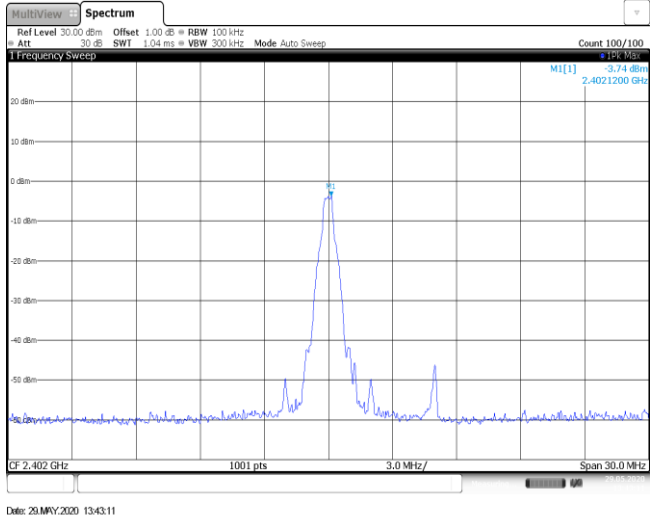
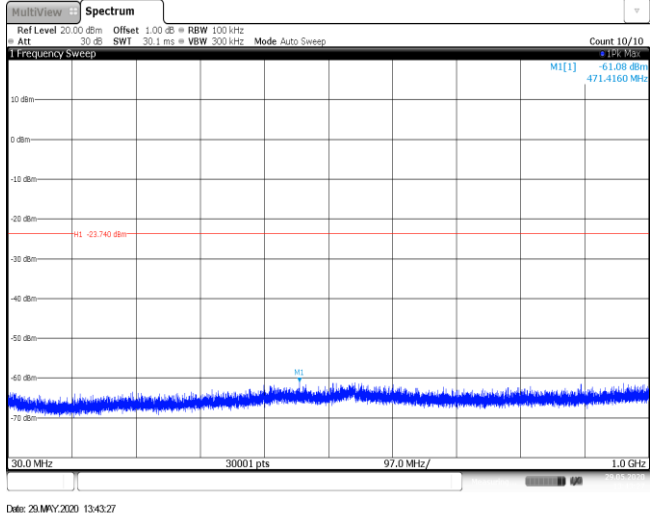
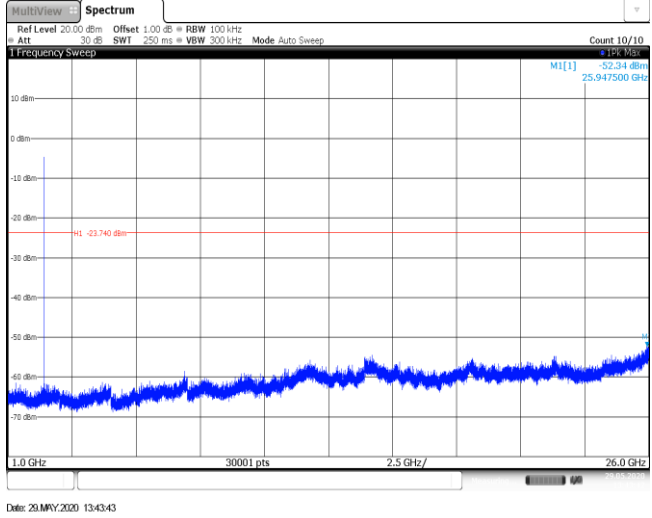


Test Item:	Band edge	Modulation type:	8DPSK																																										
CH00 No hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] -9.34 dBm 2.4021050 GHz M2[1] -56.43 dBm 2.4000000 GHz 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.402105 GHz</td><td>-9.34 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-56.43 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.98 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.85 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39968 GHz</td><td>-56.18 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 14:12:16			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.402105 GHz	-9.34 dBm			M2	1		2.4 GHz	-56.43 dBm			M3	1		2.39 GHz	-62.98 dBm			M4	1		2.31 GHz	-64.85 dBm			M5	1		2.39968 GHz	-56.18 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.402105 GHz	-9.34 dBm																																									
M2	1		2.4 GHz	-56.43 dBm																																									
M3	1		2.39 GHz	-62.98 dBm																																									
M4	1		2.31 GHz	-64.85 dBm																																									
M5	1		2.39968 GHz	-56.18 dBm																																									
CH00 Hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.05 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] -9.54 dBm 2.4040030 GHz M2[1] -59.87 dBm 2.4000000 GHz 2.31 GHz 1001 pts 9.5 MHz/ 2.405 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.404003 GHz</td><td>-9.54 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-59.87 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-62.78 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-63.85 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.39968 GHz</td><td>-57.94 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 14:28:08			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.404003 GHz	-9.54 dBm			M2	1		2.4 GHz	-59.87 dBm			M3	1		2.39 GHz	-62.78 dBm			M4	1		2.31 GHz	-63.85 dBm			M5	1		2.39968 GHz	-57.94 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
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M2	1		2.4 GHz	-59.87 dBm																																									
M3	1		2.39 GHz	-62.78 dBm																																									
M4	1		2.31 GHz	-63.85 dBm																																									
M5	1		2.39968 GHz	-57.94 dBm																																									
CH78 No hopping mode	MultiViewSpectrum Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW 1.02 ms VBW 300 kHz Mode Auto Sweep Count 500/500 Frequency Sweep M1[1] -13.03 dBm 2.4801430 GHz M2[1] -64.18 dBm 2.4835000 GHz 2.478 GHz 1001 pts 2.2 MHz/ 2.5 GHz 2 Marker Table <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.480143 GHz</td><td>-13.03 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-64.18 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.87 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.484974 GHz</td><td>-47.56 dBm</td><td></td><td></td></tr></table> Date: 29.MAY.2020 14:18:38			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.480143 GHz	-13.03 dBm			M2	1		2.4835 GHz	-64.18 dBm			M3	1		2.5 GHz	-63.87 dBm			M4	1		2.484974 GHz	-47.56 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.480143 GHz	-13.03 dBm																																									
M2	1		2.4835 GHz	-64.18 dBm																																									
M3	1		2.5 GHz	-63.87 dBm																																									
M4	1		2.484974 GHz	-47.56 dBm																																									

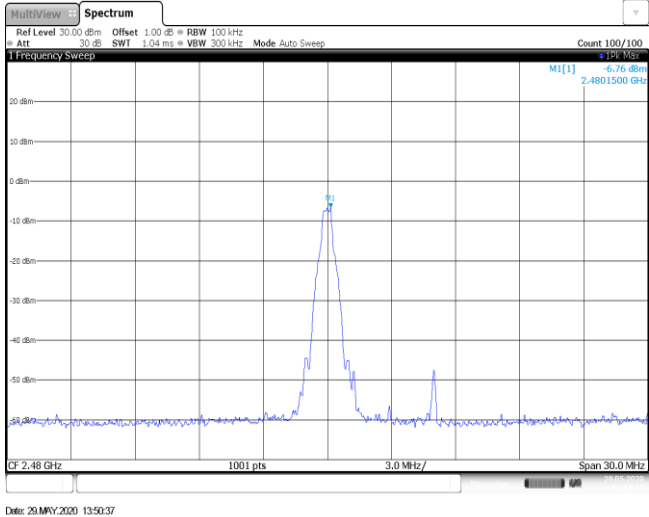
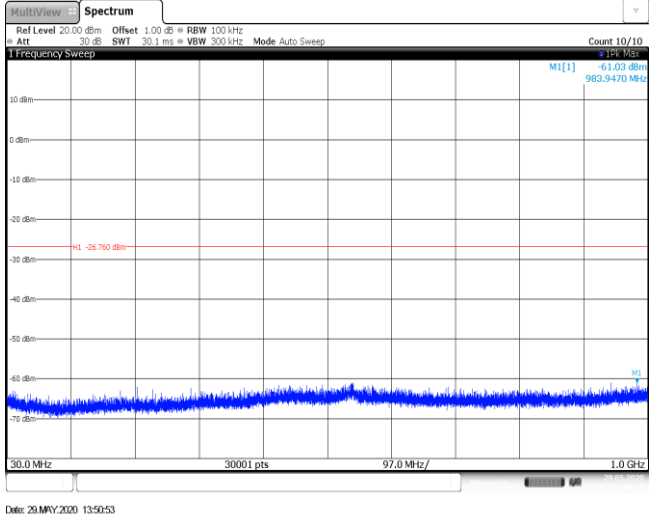
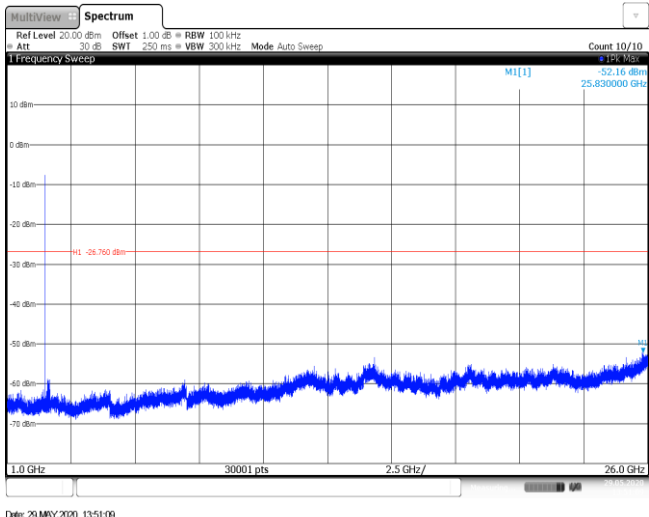
CH78
Hoppig mode

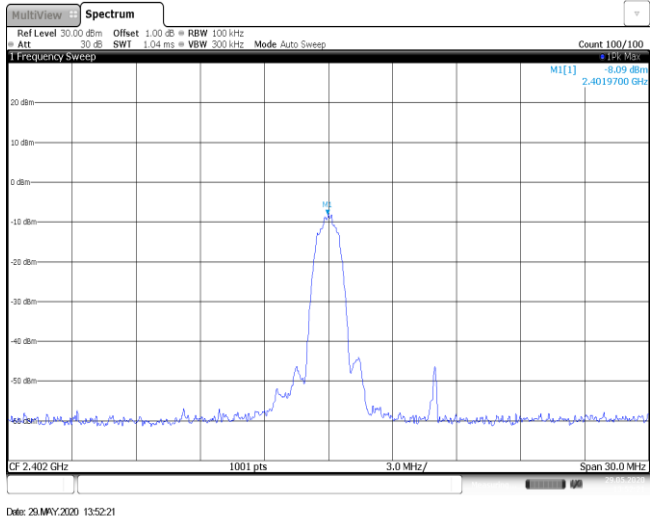
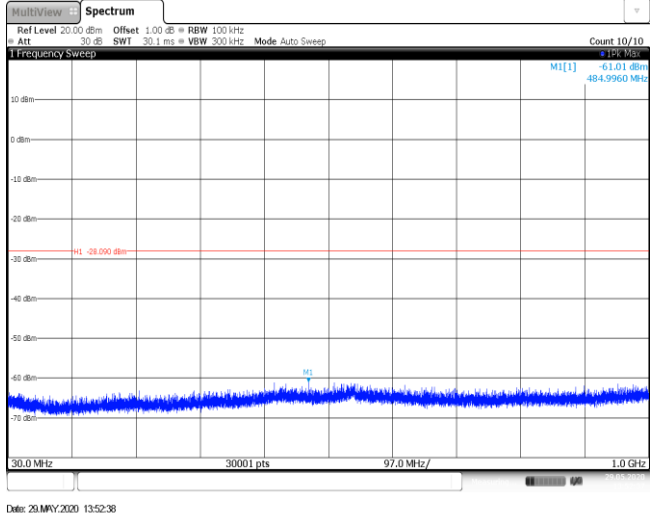
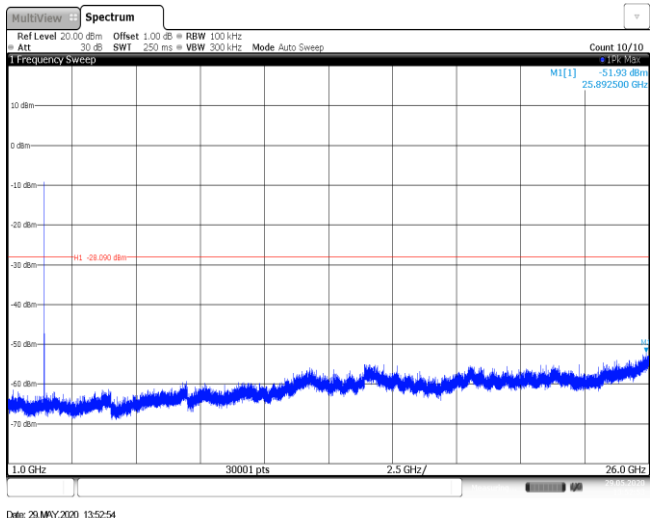


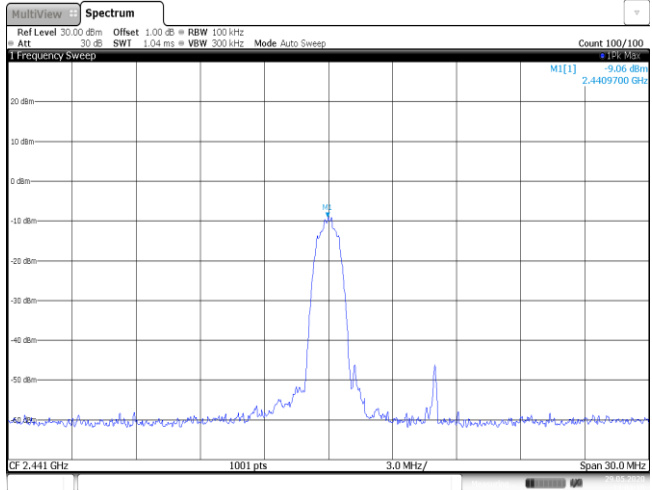
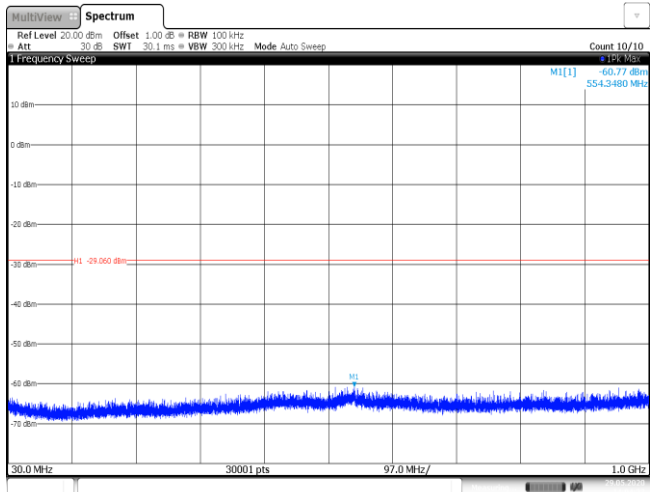
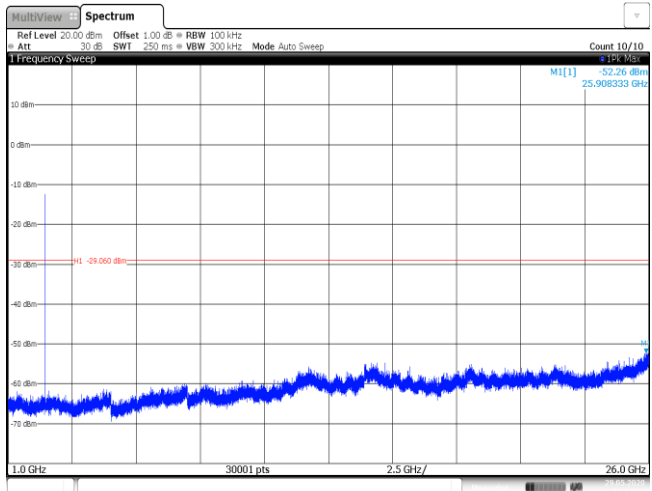
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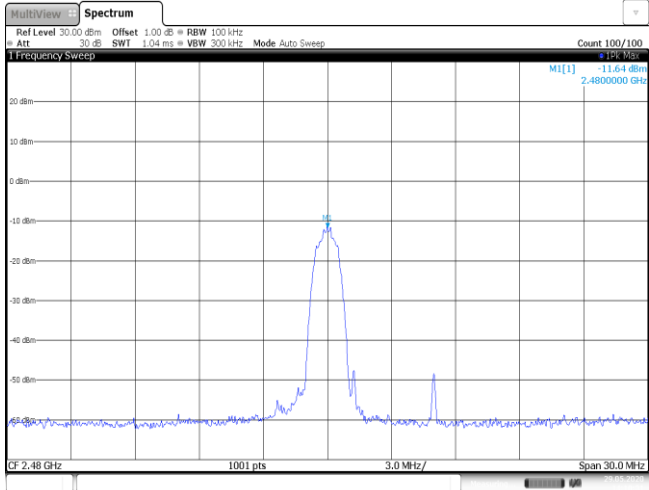
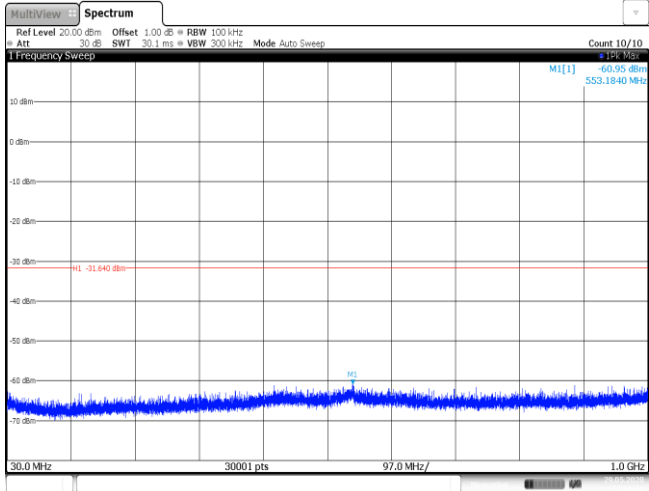
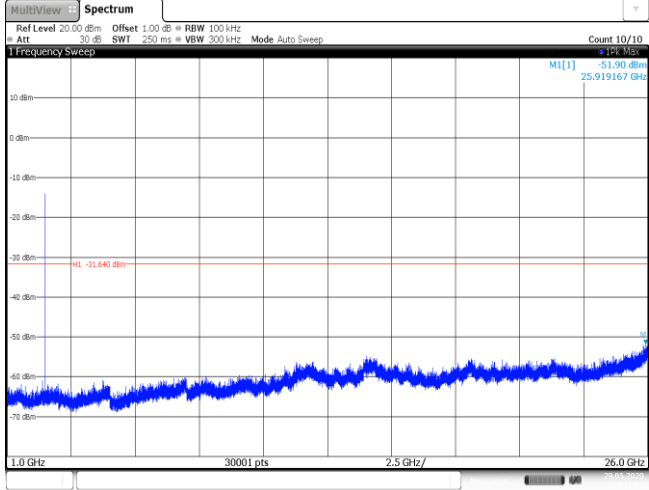
Test Item:	Spurious Emission	Modulation type:	GFSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

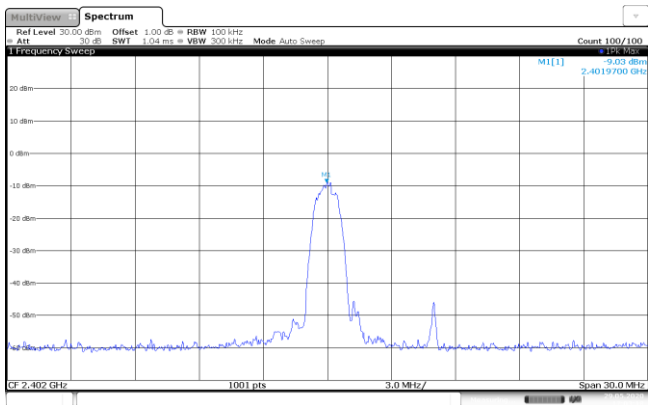
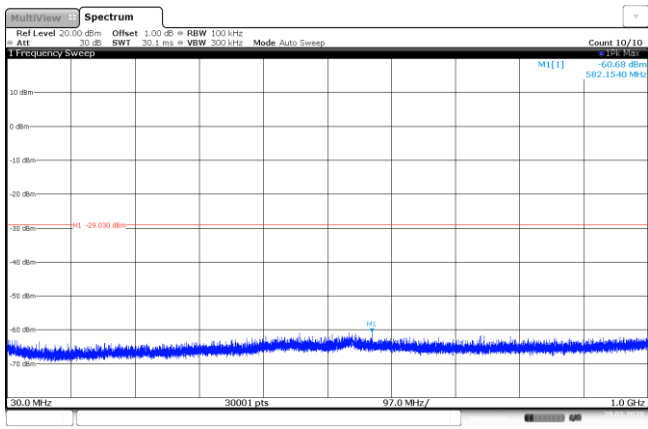
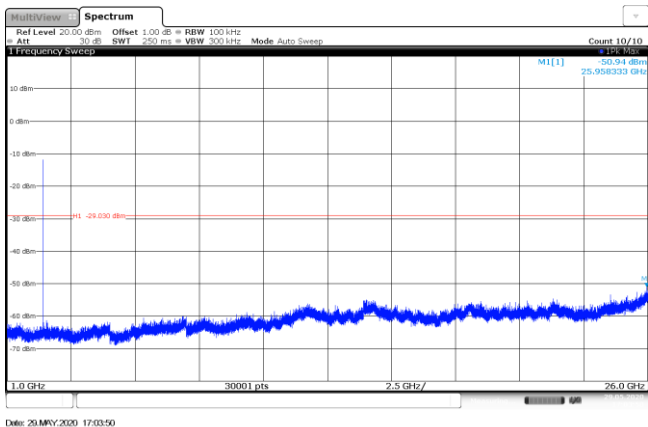
CH39 Reference level	This spectrum plot shows a single prominent peak at 2.441 GHz. The y-axis represents power in dBm, ranging from -80 to 20. The x-axis represents frequency in MHz, with a span of 30.0 MHz. The plot includes technical parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWF 1.04 ms, VBW 300 kHz, and Mode Auto Sweep. A measurement point M1[1] is marked at -4.86 dBm at 2.4409700 GHz. The date and time are 29.MAY.2020 13:48:11.
CH39 30MHz~1000MHz	This spectrum plot shows a noise floor across the 30 MHz to 1000 MHz range. The y-axis ranges from -70 to 10 dBm. The x-axis has a span of 30.0 MHz. Technical parameters are: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWF 30.1 ms, VBW 300 kHz, and Mode Auto Sweep. A measurement point M1[1] is marked at -61.09 dBm at 544.0670 MHz. A red horizontal line indicates a limit at -24.860 dBm. The date and time are 29.MAY.2020 13:48:27.
CH39 1GHz~26GHz	This spectrum plot shows a noise floor across the 1 GHz to 26 GHz range. The y-axis ranges from -70 to 10 dBm. The x-axis has a span of 2.5 GHz. Technical parameters are: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWF 250 ms, VBW 300 kHz, and Mode Auto Sweep. A measurement point M1[1] is marked at -52.30 dBm at 25.980833 GHz. A red horizontal line indicates a limit at -24.860 dBm. The date and time are 29.MAY.2020 13:48:44.

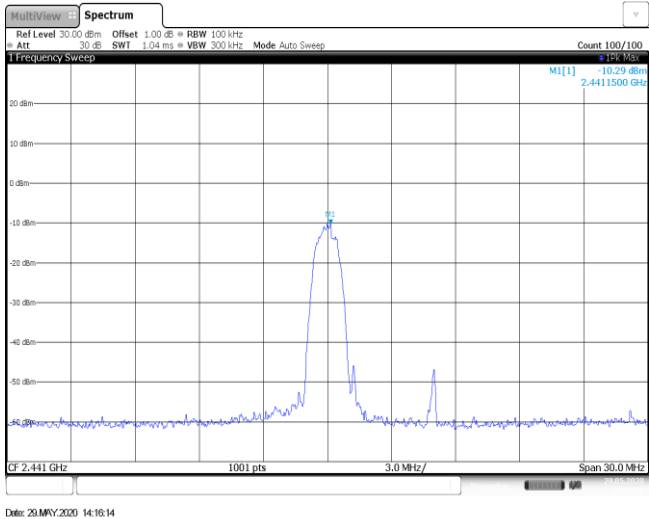
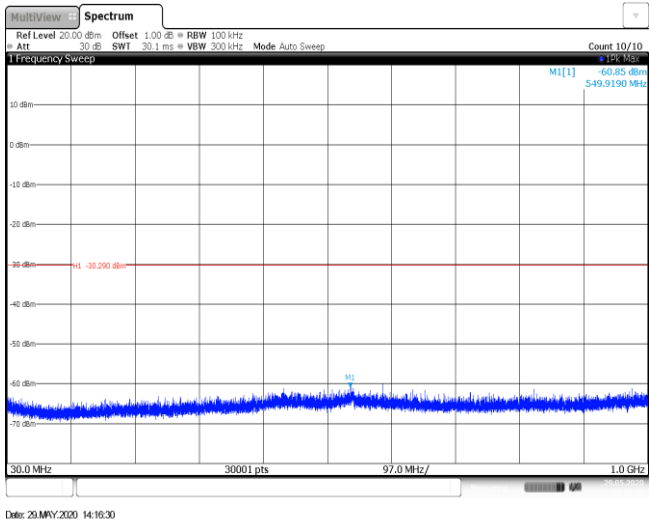
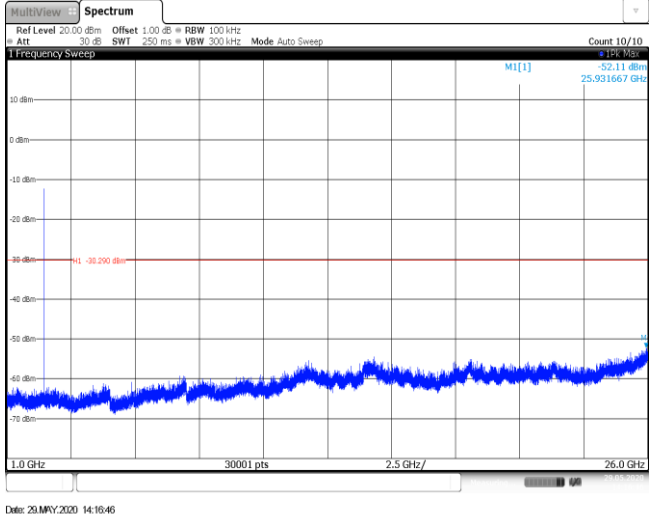
CH78 Reference level	
CH78 30MHz~1000MHz	
CH78 1GHz~26GHz	

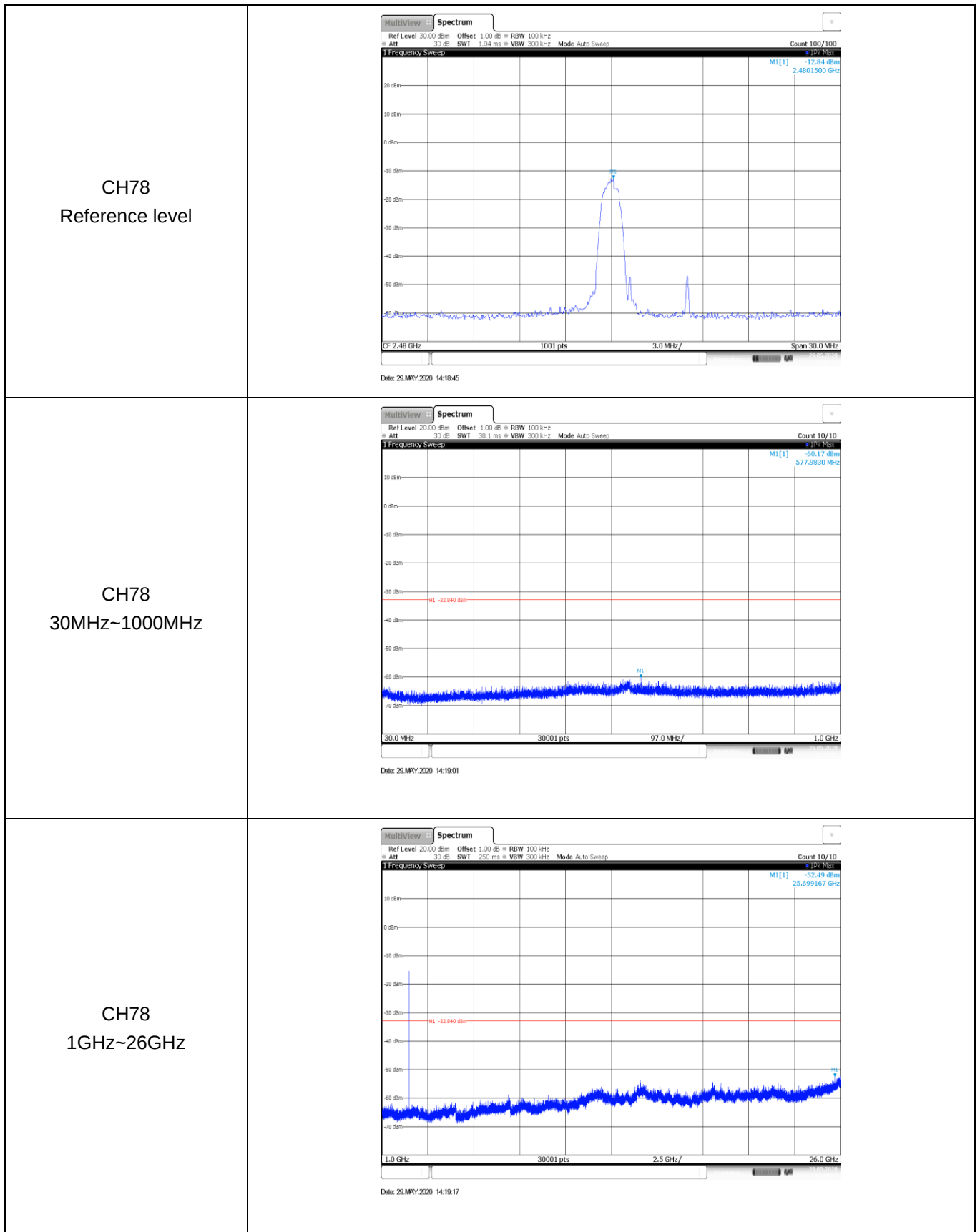
Test Item:	Spurious Emission	Modulation type:	$\pi/4$ DQPSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

CH39 Reference level	 The spectrum plot shows a single sharp peak at 2.441 GHz. The y-axis represents power in dBm, ranging from -40 to 20. The x-axis represents frequency in MHz, with a span of 30.0 MHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 30.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWF 1.04 ms, VBW 300 kHz, Mode Auto Sweep, Count 100/100. The peak is labeled M1[1] at -9.06 dBm. Date: 29.MAY.2020 14:04:18
CH39 30MHz~1000MHz	 The spectrum plot shows a noisy baseline across the 30 MHz to 1000 MHz range. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in MHz, with a span of 97.0 MHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWF 30.1 ms, VBW 300 kHz, Mode Auto Sweep, Count 10/10. A red horizontal line is drawn at -29.00 dBm. The plot shows a peak at 554.3480 MHz labeled M1[1] at -60.77 dBm. Date: 29.MAY.2020 14:04:34
CH39 1GHz~26GHz	 The spectrum plot shows a noisy baseline across the 1 GHz to 26 GHz range. The y-axis represents power in dBm, ranging from -70 to 10. The x-axis represents frequency in GHz, with a span of 2.5 GHz. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Offset 1.00 dB, RBW 100 kHz, Att 30 dB, SWF 250 ms, VBW 300 kHz, Mode Auto Sweep, Count 10/10. A red horizontal line is drawn at -29.00 dBm. The plot shows a peak at 25.908333 GHz labeled M1[1] at -52.26 dBm. Date: 29.MAY.2020 14:04:50

CH78 Reference level	
CH78 30MHz~1000MHz	
CH78 1GHz~26GHz	

Test Item:	Spurious Emission	Modulation type:	8DPSK
CH00 Reference level			
CH00 30MHz~1000MHz			
CH00 1GHz~26GHz			

CH39 Reference level	
CH39 30MHz~1000MHz	
CH39 1GHz~26GHz	



-----End of Report-----