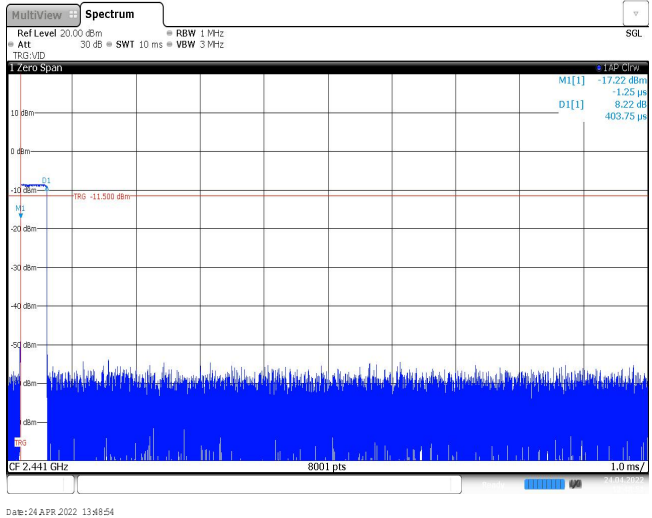
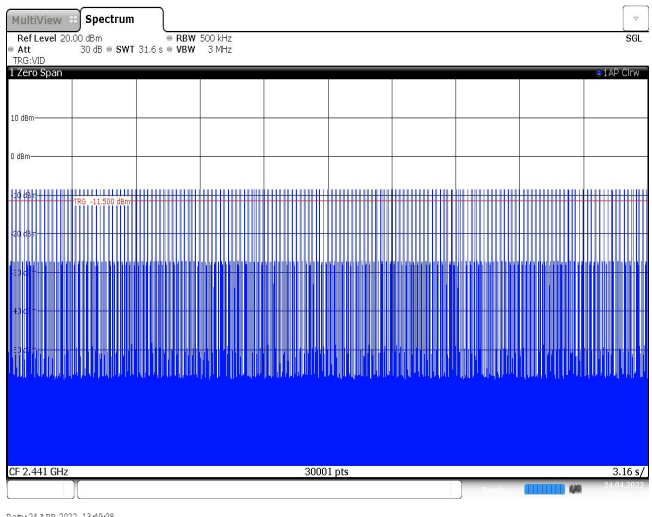
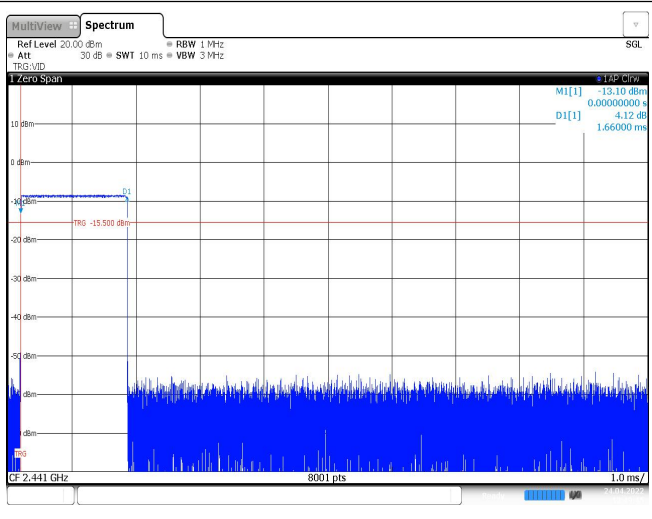
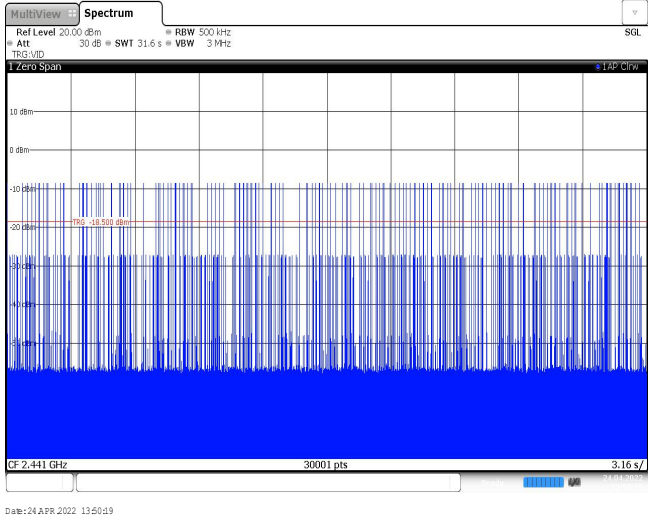
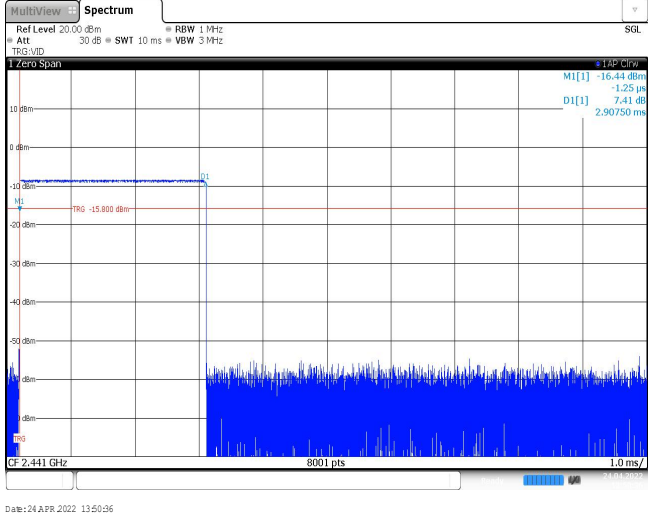
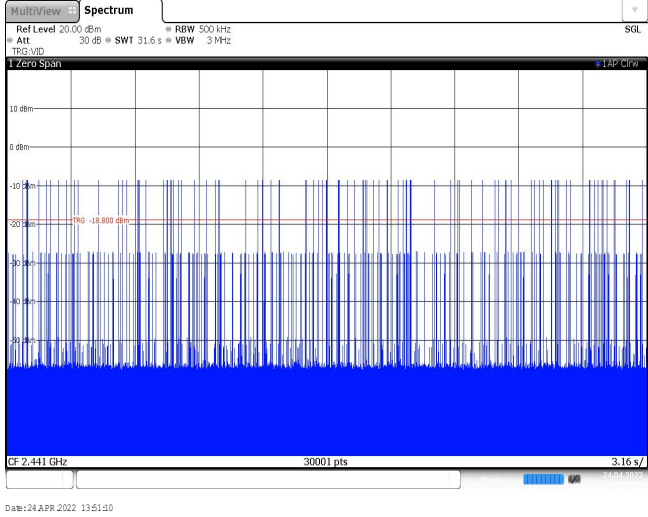
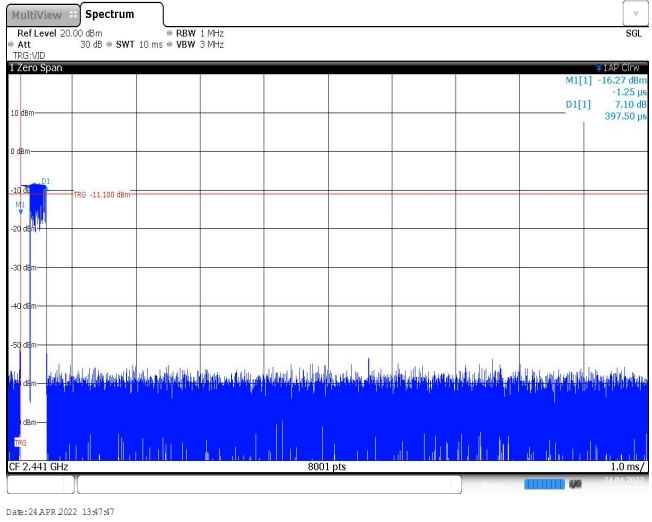
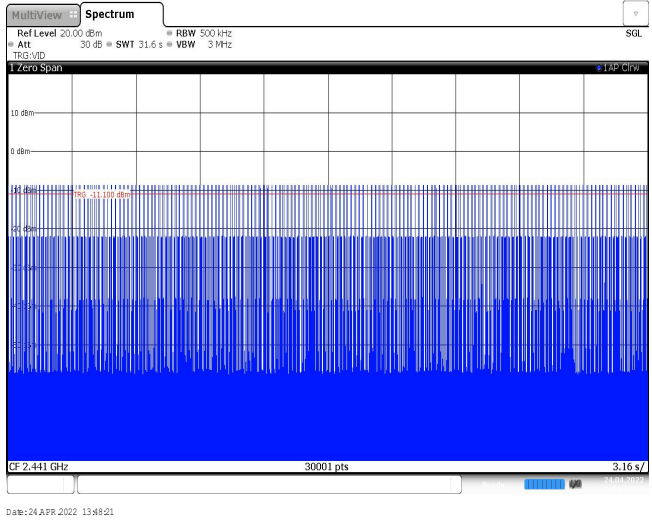
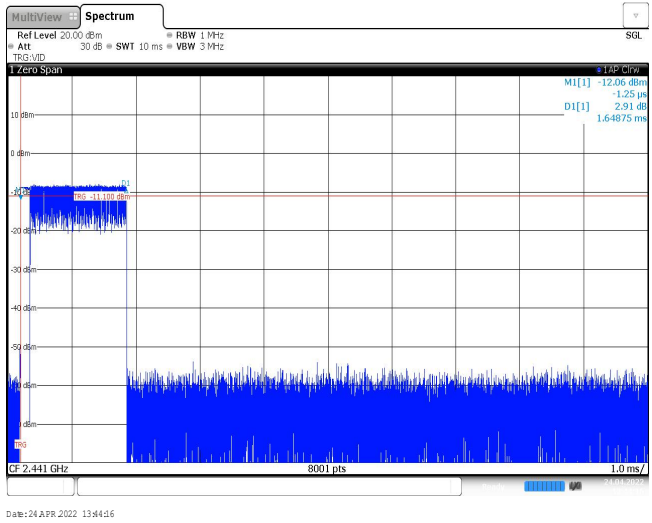


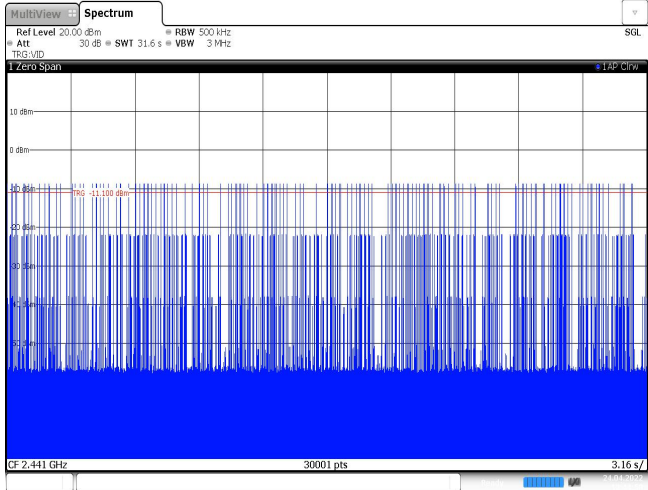
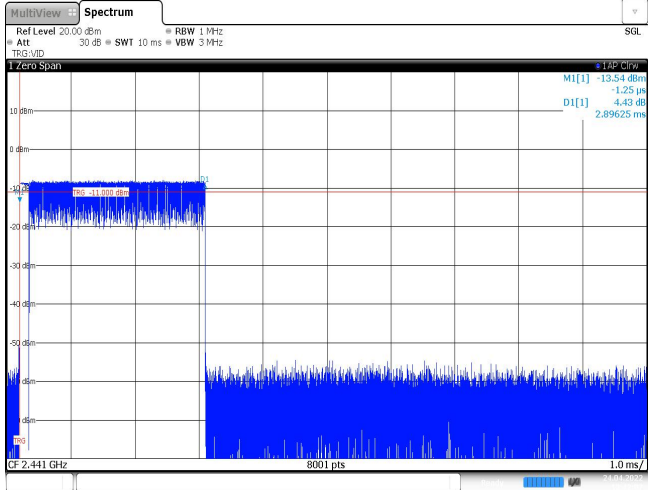
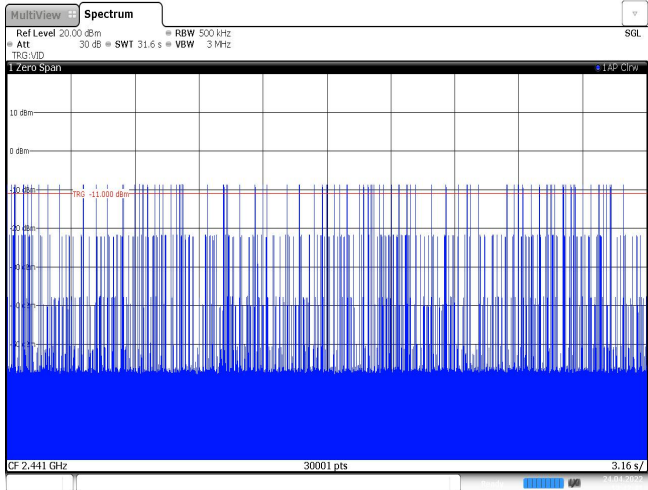
Appendix F: Dwell Time

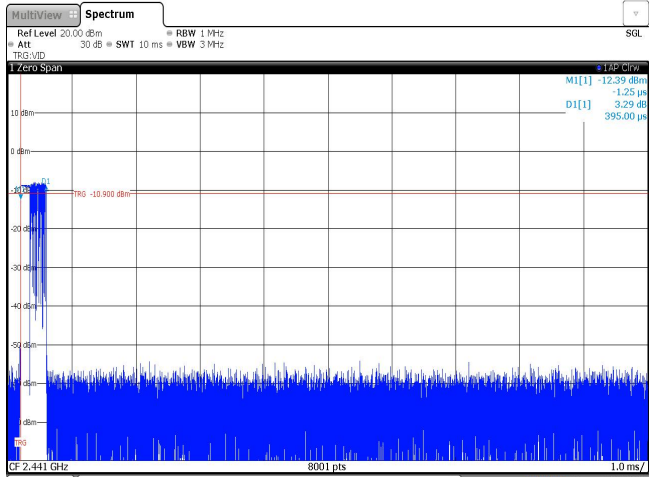
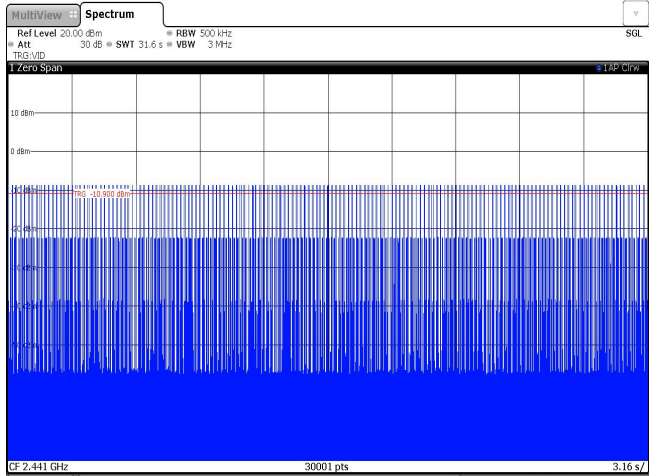
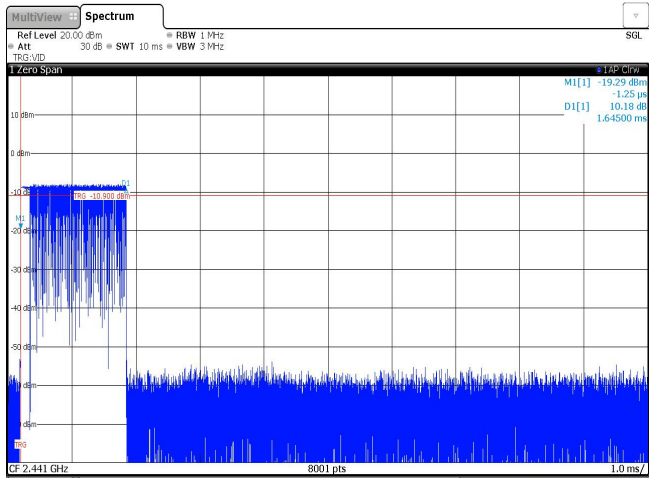
Modulation type	Packet	Burst Width [ms]	Total Hops[hop*ch]	Dwell time (Second)	Limit (Second)	Result
GFSK	DH1	0.40	320	0.13	≤ 0.40	Pass
	DH3	1.66	164	0.27		
	DH5	2.91	93	0.27		
π/4DQPSK	2DH1	0.40	320	0.13	≤ 0.40	Pass
	2DH3	1.65	157	0.26		
	2DH5	2.90	101	0.29		
8DPSK	3DH1	0.39	317	0.13	≤ 0.40	Pass
	3DH3	1.65	160	0.26		
	3DH5	2.90	106	0.31		

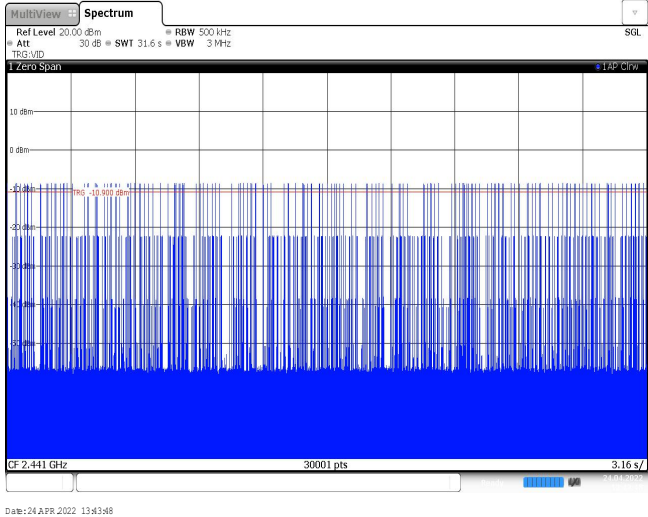
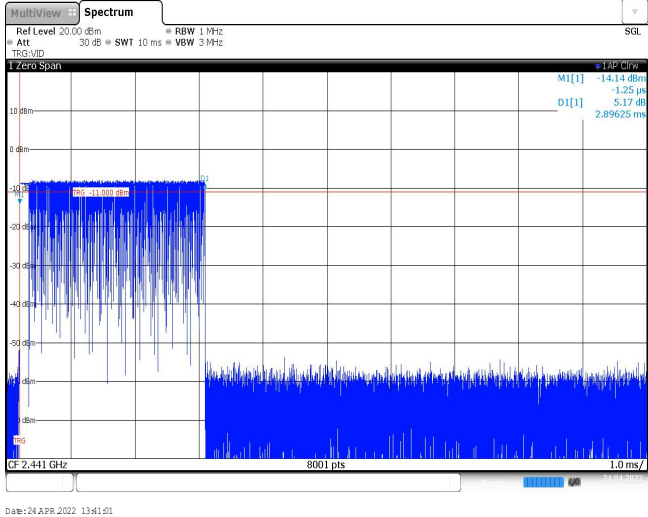
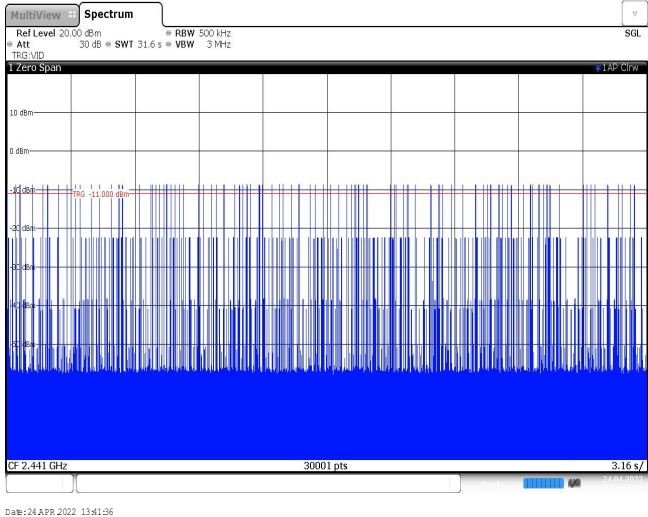
Modulation Type: GFSK	
DH1 Burst width	 Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz TR0 -15.500 dBm TR1 -17.22 dBm D1 8.22 dB D1 403.75 μs CF 2.441 GHz 8001 pts 1.0 ms Date: 24 APR 2022 13:48:54
DH1 Burst number	 Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz TR0 -15.500 dBm TR1 -17.22 dBm D1 8.22 dB D1 403.75 μs CF 2.441 GHz 30001 pts 3.16 s Date: 24 APR 2022 13:49:28
DH3 Burst width	 Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz TR0 -15.500 dBm TR1 -13.10 dBm D1 4.12 dB D1 1.66000 ms CF 2.441 GHz 8001 pts 1.0 ms Date: 24 APR 2022 13:49:45

DH3 Burst number	 The screenshot shows a spectrum plot titled 'Spectrum' with a 'Zero Span' view. 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 dense, continuous signal is visible across the entire frequency range. The plot includes a reference level of 20.00 dBm, an attenuation of 30 dB, a resolution bandwidth (RBW) of 500 Hz, a sweep time (SWT) of 31.6 s, and a video bandwidth (VBW) of 3 MHz. The date and time are 24 APR 2022 13:50:19.
DH5 Burst width	 The screenshot shows a spectrum plot titled 'Spectrum' with a 'Zero Span' view. 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 signal is visible, with a peak at approximately 2.441 GHz. The plot includes a reference level of 20.00 dBm, an attenuation of 30 dB, a resolution bandwidth (RBW) of 1 MHz, a sweep time (SWT) of 10 ms, and a video bandwidth (VBW) of 3 MHz. The date and time are 24 APR 2022 13:50:36.
DH5 Burst number	 The screenshot shows a spectrum plot titled 'Spectrum' with a 'Zero Span' view. 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 dense, continuous signal is visible across the entire frequency range. The plot includes a reference level of 20.00 dBm, an attenuation of 30 dB, a resolution bandwidth (RBW) of 500 Hz, a sweep time (SWT) of 31.6 s, and a video bandwidth (VBW) of 3 MHz. The date and time are 24 APR 2022 13:51:10.

Modulation Type: $\pi/4$ DQPSK	
2DH1 Burst width	 Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz 1 Zero Span CF 2.441 GHz 8001 pts 1.0 ms Date: 24 APR 2022 13:47:47
2DH1 Burst number	 Ref Level 20.00 dBm Att 30 dB RBW 500 kHz SWT 31.6 s VBW 3 MHz 1 Zero Span CF 2.441 GHz 30001 pts 3.16 s Date: 24 APR 2022 13:48:21
2DH3 Burst width	 Ref Level 20.00 dBm Att 30 dB RBW 1 MHz SWT 10 ms VBW 3 MHz 1 Zero Span CF 2.441 GHz 8001 pts 1.0 ms Date: 24 APR 2022 13:44:16

2DH3 Burst number	 The spectrum plot shows a dense signal across the frequency range from 2.441 GHz to 3.165 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 Hz, and VSW 3 MHz. The date is 24 APR 2022 13:44:50.
2DH5 Burst width	 The spectrum plot shows a signal burst between 2.441 GHz and 2.5 GHz, with a power level around -10 dBm. The y-axis ranges from -50 to 10 dBm. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, and VSW 3 MHz. The date is 24 APR 2022 13:42:07.
2DH5 Burst number	 The spectrum plot shows a dense signal across the frequency range from 2.441 GHz to 3.165 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 Hz, and VSW 3 MHz. The date is 24 APR 2022 13:42:41.

Modulation Type:	8DPSK
3DH1 Burst width	 The spectrum plot shows a single burst of signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, ranging from 2.440 to 2.442. The plot shows a sharp peak at the center frequency, with a bandwidth of approximately 1 MHz. The signal is labeled with 'M1[1]' and 'D1[1]' values: M1[1] = -12.35 dBm, D1[1] = -1.25 dBm. The plot also shows a reference level of 20.00 dBm and a noise floor of -10.00 dBm. The plot is titled 'Spectrum' and includes a 'MultiView' button. The date is 24 APR 2022 13:46:01.
3DH1 Burst number	 The spectrum plot shows a continuous signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, ranging from 2.440 to 2.442. The plot shows a continuous signal with a bandwidth of approximately 1 MHz. The signal is labeled with 'M1[1]' and 'D1[1]' values: M1[1] = -12.35 dBm, D1[1] = -1.25 dBm. The plot also shows a reference level of 20.00 dBm and a noise floor of -10.00 dBm. The plot is titled 'Spectrum' and includes a 'MultiView' button. The date is 24 APR 2022 13:46:05.
3DH3 Burst width	 The spectrum plot shows a single burst of signal at 2.441 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The x-axis represents frequency in GHz, ranging from 2.440 to 2.442. The plot shows a sharp peak at the center frequency, with a bandwidth of approximately 1 MHz. The signal is labeled with 'M1[1]' and 'D1[1]' values: M1[1] = -19.25 dBm, D1[1] = 10.18 dBm. The plot also shows a reference level of 20.00 dBm and a noise floor of -10.00 dBm. The plot is titled 'Spectrum' and includes a 'MultiView' button. The date is 24 APR 2022 13:43:14.

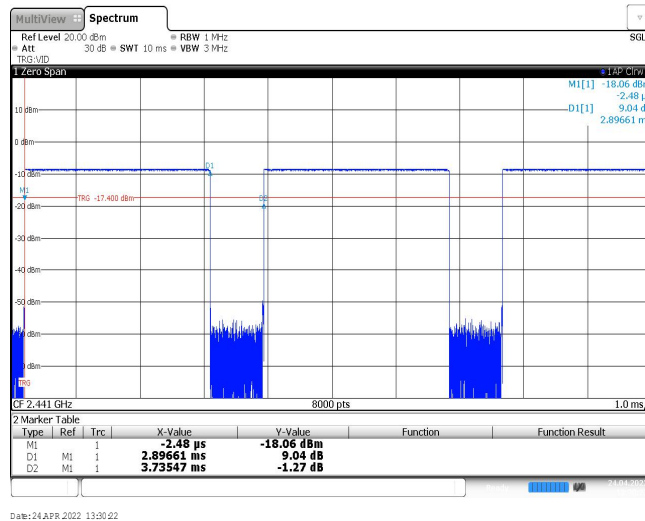
3DH3 Burst number	 The spectrum plot shows a dense signal across the frequency range from 2.441 GHz to 3.165 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 Hz, TRG VID, and 1 Zero Span. The date is 24 APR 2022 13:43:48.
3DH5 Burst width	 The spectrum plot shows a signal burst between 2.441 GHz and 2.5 GHz, followed by a lower power level. The y-axis represents power in dBm, ranging from -50 to 10. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 1 MHz, TRG VID, and 1 Zero Span. The date is 24 APR 2022 13:41:01.
3DH5 Burst number	 The spectrum plot shows a dense signal across the frequency range from 2.441 GHz to 3.165 GHz. The y-axis represents power in dBm, ranging from -50 to 10. The plot is titled 'Spectrum' and includes parameters: Ref Level 20.00 dBm, Att 30 dB, RBW 500 Hz, TRG VID, and 1 Zero Span. The date is 24 APR 2022 13:41:26.

Appendix G: Duty Cycle Correction Factor (DCCF)**DCCF Calculate Formula**

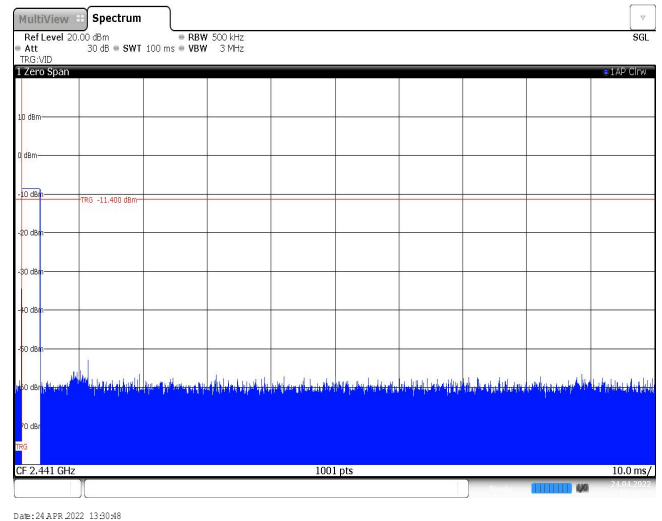
$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

Modulation type	Test Frequency (MHz)	T _{on time} for single burst [ms]	T _{period} [ms]	Burst Quantity	DCCF [dB]
GFSK	2441	2.90	100	1	-30.75
$\pi/4$ DQPSK	2441	2.89	100	1	-30.78
8DPSK	2441	2.89	100	1	-30.78

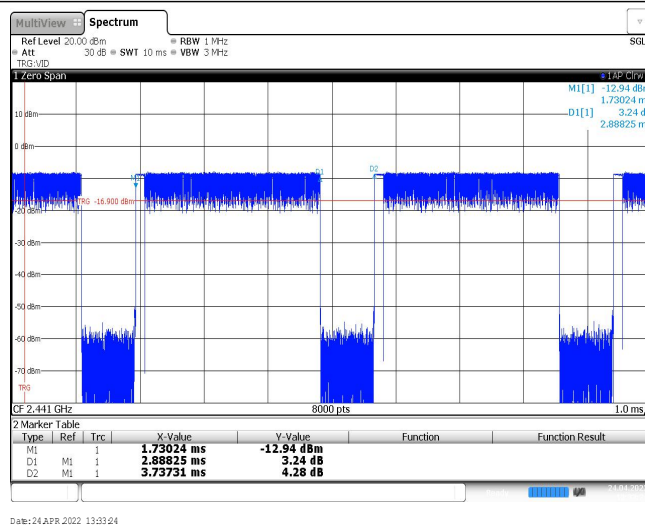
GFSK



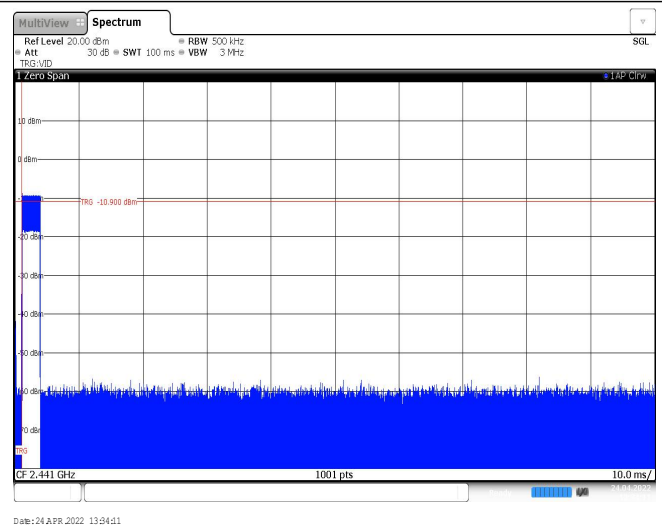
Ton time for single burst



Burst Quantity

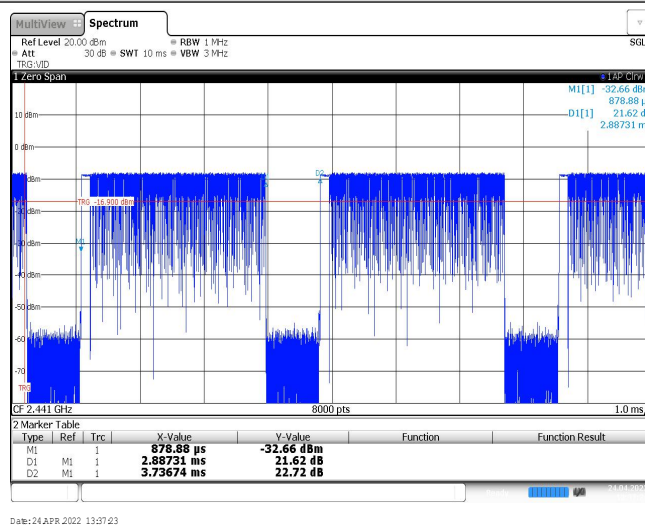
 $\pi/4$ DQPSK

Ton time for single burst

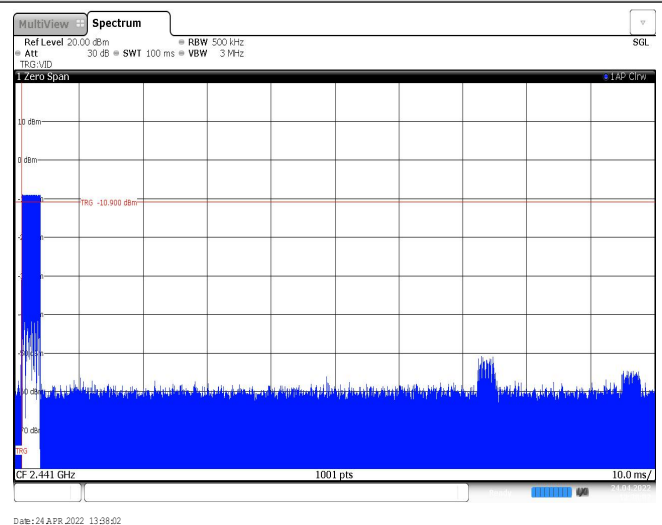


Burst Quantity

8DPSK



Ton time for single burst



Burst Quantity