

Project No.	SHT2508094501W		
Test sample No.	YPHT25080945002	Model No.	BDR-4550
Start date.	2025/9/11	Finish date.	2025/9/22
Temperature	25.3℃	Humidity	49%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhu

Appendix clause	Test Item	Test date (M/D)	Test Result (PASS/FAIL)
A	Maximum Transmitter Power	9/12	PASS
B	Occupied Bandwidth	9/17	PASS
C	Emission Mask	9/22	PASS
D	Modulation Limit	9/17	PASS
E	Audio Frequency Response	9/17	PASS
F	Frequency Stability Test & Temperature	9/17	PASS
G	Frequency Stability Test & Voltage	9/17	PASS
H	Transmitter Frequency Behavior	9/18	PASS
I	Spurious Emission On Antenna Port	9/22	PASS

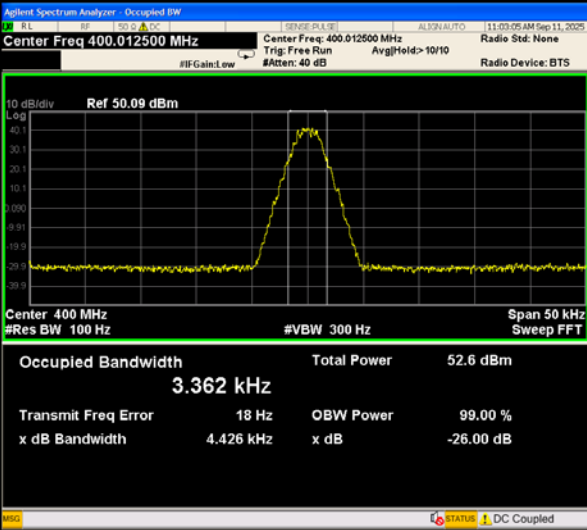
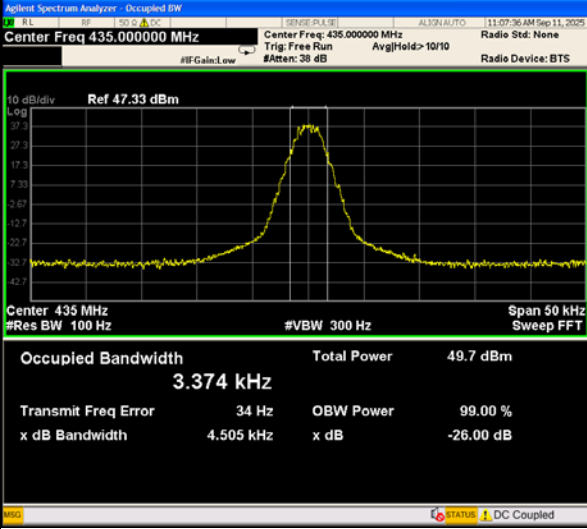
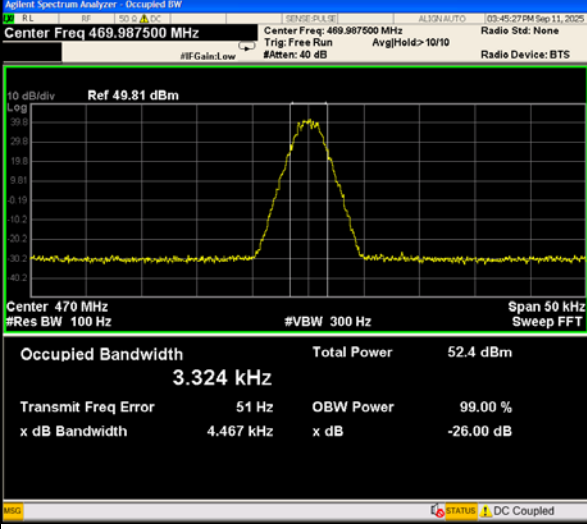
Appendix A:Maximum Transmitter Power

Operation Mode	Modulation Type	Test Channel	Measured Power(dBm)	Measured Power(W)	Rated Power(W)	Percentage(%))	Limit (%)	Result
TX-NXDNH	4FSK	CH _L	47.10	51.29	50.00	2.58	±20	PASS
TX-NXDNH	4FSK	CH _M	47.00	50.12	50.00	0.24	±20	PASS
TX-NXDNH	4FSK	CH _H	47.00	50.12	50.00	0.24	±20	PASS
TX-NXDNL	4FSK	CH _L	44.50	28.18	25.00	12.72	±20	PASS
TX-NXDNL	4FSK	CH _M	44.40	27.54	25.00	10.16	±20	PASS
TX-NXDNL	4FSK	CH _H	44.40	27.54	25.00	10.16	±20	PASS
TX-DNH	4FSK	CH _L	46.63	46.03	50.00	-7.94	±20	PASS
TX-DNH	4FSK	CH _M	46.56	45.29	50.00	-9.42	±20	PASS
TX-DNH	4FSK	CH _H	46.52	44.87	50.00	-10.26	±20	PASS
TX-DNL	4FSK	CH _L	44.01	25.18	25.00	0.72	±20	PASS
TX-DNL	4FSK	CH _M	43.92	24.66	25.00	-1.36	±20	PASS
TX-DNL	4FSK	CH _H	43.94	24.77	25.00	-0.92	±20	PASS
TX-ANH	FM	CH _L	46.89	48.87	50.00	-2.26	±20	PASS
TX-ANH	FM	CH _M	46.87	48.67	50.00	-2.66	±20	PASS
TX-ANH	FM	CH _H	46.89	48.87	50.00	-2.26	±20	PASS
TX-ANL	FM	CH _L	43.79	23.93	25.00	-4.28	±20	PASS
TX-ANL	FM	CH _M	43.76	23.77	25.00	-4.92	±20	PASS
TX-ANL	FM	CH _H	43.81	24.04	25.00	-3.84	±20	PASS

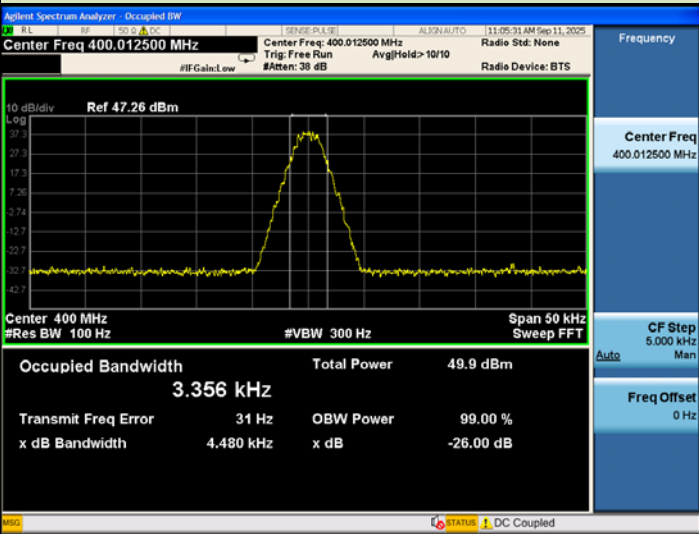
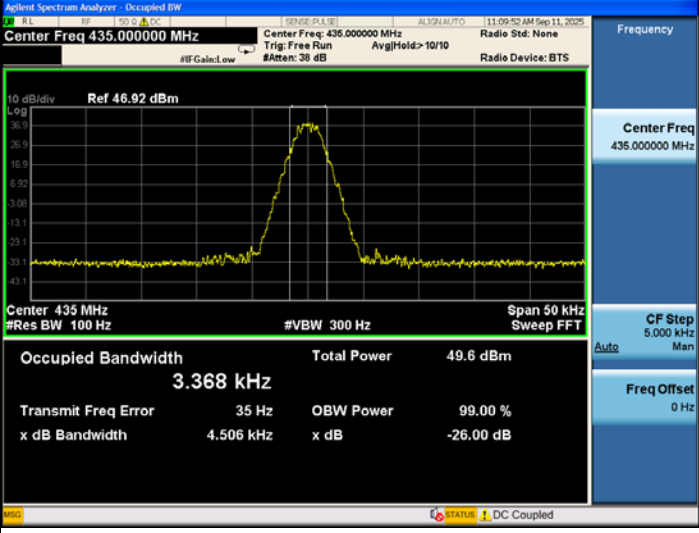
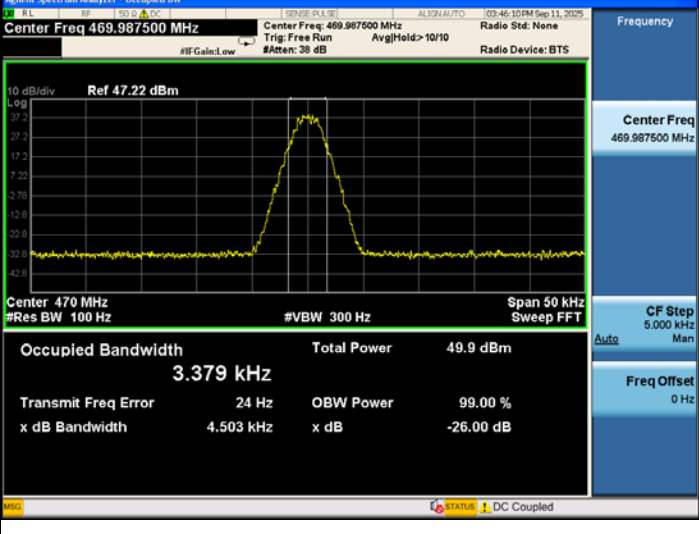
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	Occupied Bandwidth		99% Limit(kHz)	Result
			99%(kHz)	26dB(kHz)		
TX-NXDNH	4FSK	CH _L	3.362	4.426	≤6.00	PASS
TX-NXDNH	4FSK	CH _M	3.374	4.505	≤6.00	PASS
TX-NXDNH	4FSK	CH _H	3.324	4.467	≤6.00	PASS
TX-NXDNL	4FSK	CH _L	3.356	4.480	≤6.00	PASS
TX-NXDNL	4FSK	CH _M	3.368	4.506	≤6.00	PASS
TX-NXDNL	4FSK	CH _H	3.379	4.503	≤6.00	PASS
TX-DNH	4FSK	CH _L	7.222	9.335	≤11.25	PASS
TX-DNH	4FSK	CH _M	7.290	9.332	≤11.25	PASS
TX-DNH	4FSK	CH _H	7.323	9.359	≤11.25	PASS
TX-DNL	4FSK	CH _L	7.273	9.318	≤11.25	PASS
TX-DNL	4FSK	CH _M	7.289	9.332	≤11.25	PASS
TX-DNL	4FSK	CH _H	7.321	9.327	≤11.25	PASS
TX-ANH	FM	CH _L	9.958	10.150	≤11.25	PASS
TX-ANH	FM	CH _M	9.968	10.160	≤11.25	PASS
TX-ANH	FM	CH _H	9.970	10.160	≤11.25	PASS
TX-ANL	FM	CH _L	9.963	10.160	≤11.25	PASS
TX-ANL	FM	CH _M	9.969	10.160	≤11.25	PASS
TX-ANL	FM	CH _H	9.971	10.160	≤11.25	PASS

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-NXDNH	4FSK	CHL	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 50.09 dBm Occupied Bandwidth 3.362 kHz Total Power 52.6 dBm Transmit Freq Error 18 Hz OBW Power 99.00 % x dB Bandwidth 4.426 kHz x dB -26.00 dB
TX-NXDNH	4FSK	CHM	 Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 47.33 dBm Occupied Bandwidth 3.374 kHz Total Power 49.7 dBm Transmit Freq Error 34 Hz OBW Power 99.00 % x dB Bandwidth 4.505 kHz x dB -26.00 dB
TX-NXDNH	4FSK	CHH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 49.81 dBm Occupied Bandwidth 3.324 kHz Total Power 52.4 dBm Transmit Freq Error 51 Hz OBW Power 99.00 % x dB Bandwidth 4.467 kHz x dB -26.00 dB

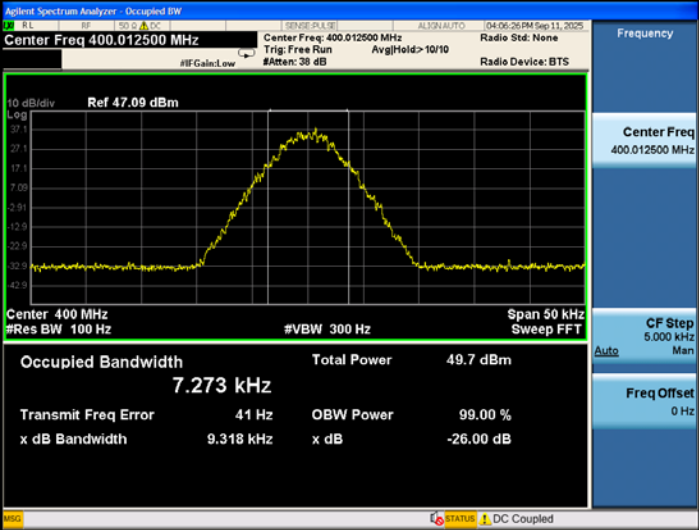
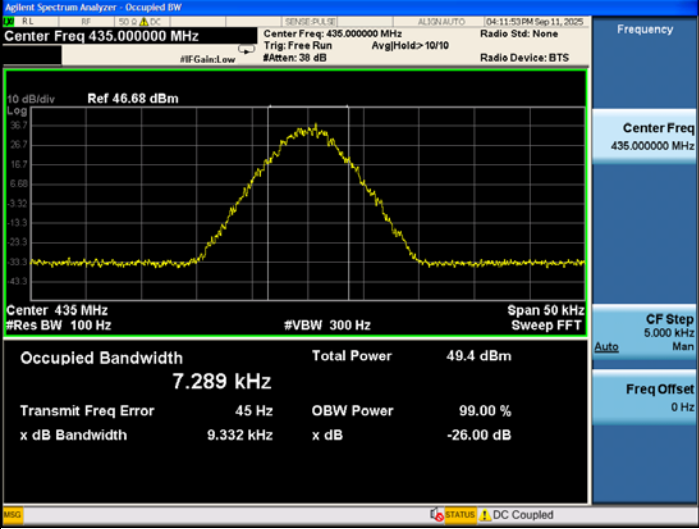
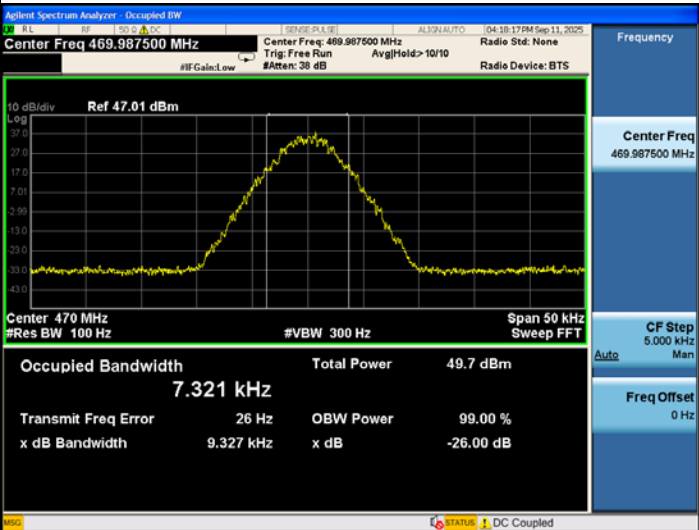
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-NXDNL	4FSK	CHL	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 47.26 dBm Occupied Bandwidth 3.356 kHz Total Power 49.9 dBm Transmit Freq Error 31 Hz OBW Power 99.00 % x dB Bandwidth 4.480 kHz x dB -26.00 dB
TX-NXDNL	4FSK	CHM	 Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 46.92 dBm Occupied Bandwidth 3.368 kHz Total Power 49.6 dBm Transmit Freq Error 35 Hz OBW Power 99.00 % x dB Bandwidth 4.506 kHz x dB -26.00 dB
TX-NXDNL	4FSK	CHH	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 47.22 dBm Occupied Bandwidth 3.379 kHz Total Power 49.9 dBm Transmit Freq Error 24 Hz OBW Power 99.00 % x dB Bandwidth 4.503 kHz x dB -26.00 dB

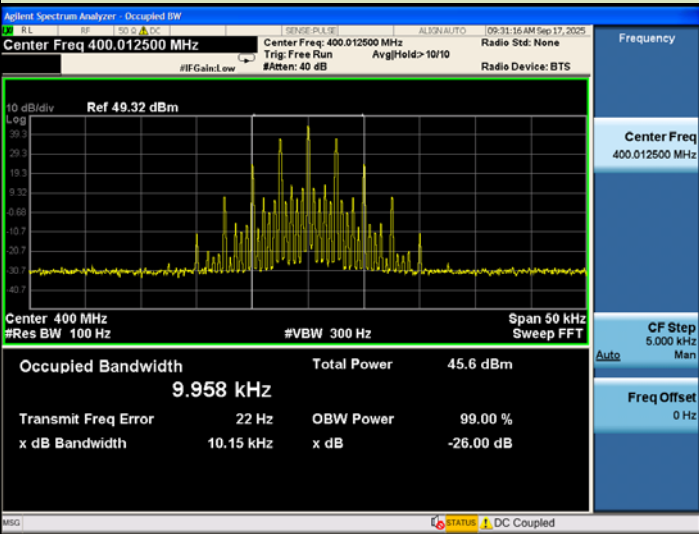
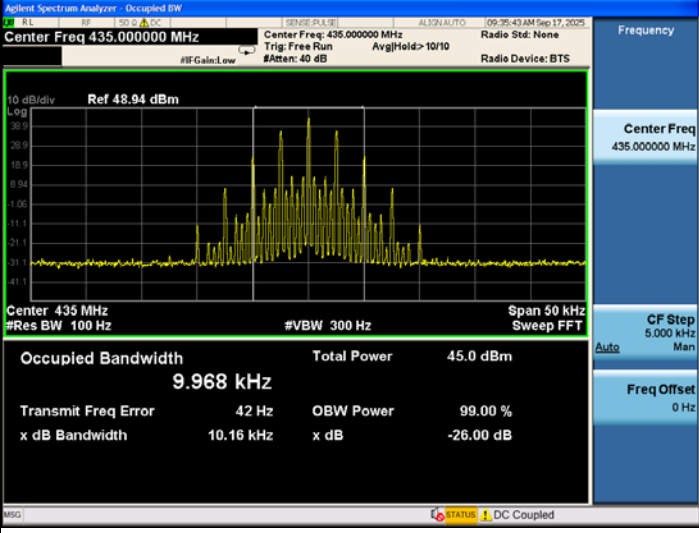
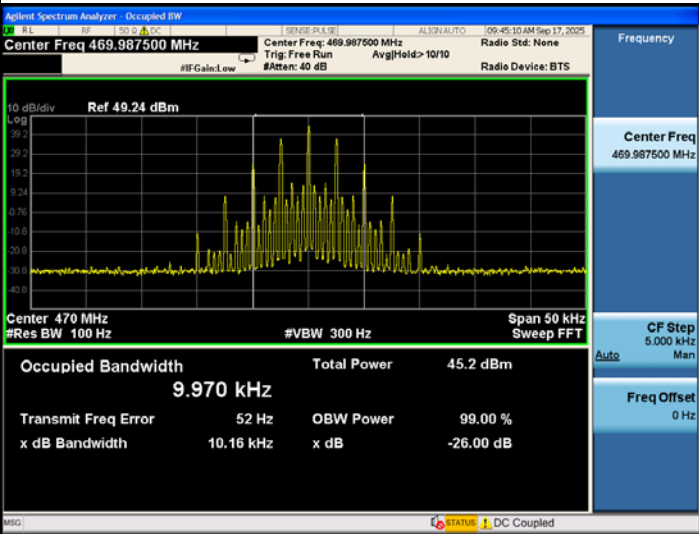
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 49.69 dBm Occupied Bandwidth 7.222 kHz Total Power 52.4 dBm Transmit Freq Error 43 Hz OBW Power 99.00 % x dB Bandwidth 9.335 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 49.36 dBm Occupied Bandwidth 7.290 kHz Total Power 52.0 dBm Transmit Freq Error 36 Hz OBW Power 99.00 % x dB Bandwidth 9.332 kHz x dB -26.00 dB
TX-DNH	4FSK	CH _H	Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 49.67 dBm Occupied Bandwidth 7.323 kHz Total Power 52.3 dBm Transmit Freq Error 43 Hz OBW Power 99.00 % x dB Bandwidth 9.359 kHz x dB -26.00 dB

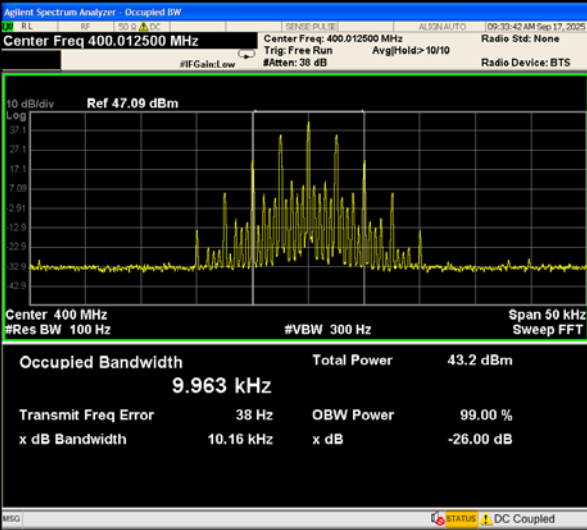
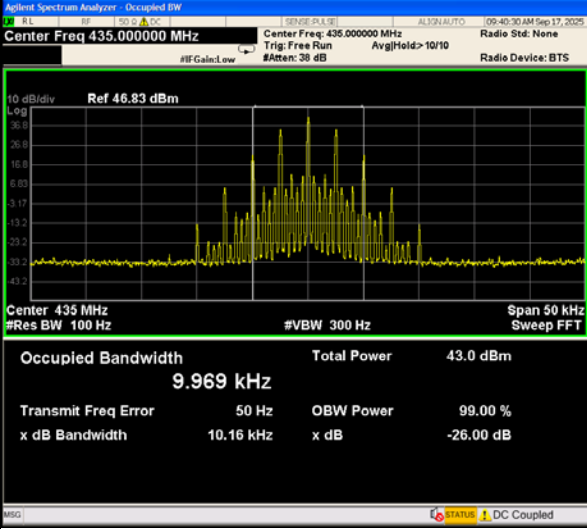
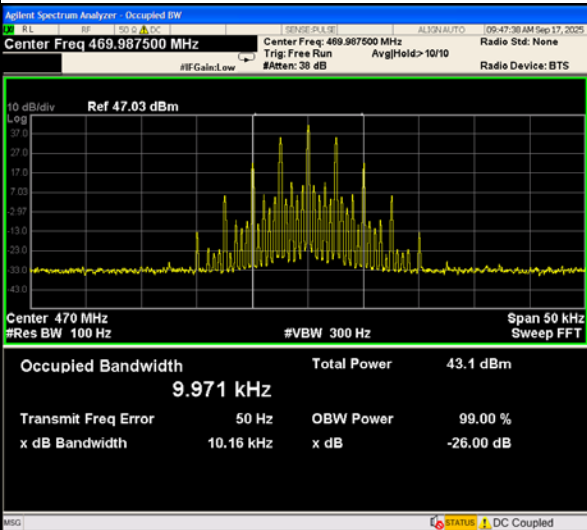
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNL	4FSK	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 400.012500 MHz Ref 47.09 dBm Occupied Bandwidth: 7.273 kHz Total Power: 49.7 dBm Transmit Freq Error: 41 Hz OBW Power: 99.00 % x dB Bandwidth: 9.318 kHz x dB: -26.00 dB
TX-DNL	4FSK	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 435.000000 MHz Ref 46.68 dBm Occupied Bandwidth: 7.289 kHz Total Power: 49.4 dBm Transmit Freq Error: 45 Hz OBW Power: 99.00 % x dB Bandwidth: 9.332 kHz x dB: -26.00 dB
TX-DNL	4FSK	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq: 469.987500 MHz Ref 47.01 dBm Occupied Bandwidth: 7.321 kHz Total Power: 49.7 dBm Transmit Freq Error: 26 Hz OBW Power: 99.00 % x dB Bandwidth: 9.327 kHz x dB: -26.00 dB

Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANH	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 49.32 dBm Occupied Bandwidth 9.958 kHz Total Power 45.6 dBm Transmit Freq Error 22 Hz OBW Power 99.00 % x dB Bandwidth 10.15 kHz x dB -26.00 dB
TX-ANH	FM	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 48.94 dBm Occupied Bandwidth 9.968 kHz Total Power 45.0 dBm Transmit Freq Error 42 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB
TX-ANH	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 49.24 dBm Occupied Bandwidth 9.970 kHz Total Power 45.2 dBm Transmit Freq Error 52 Hz OBW Power 99.00 % x dB Bandwidth 10.16 kHz x dB -26.00 dB

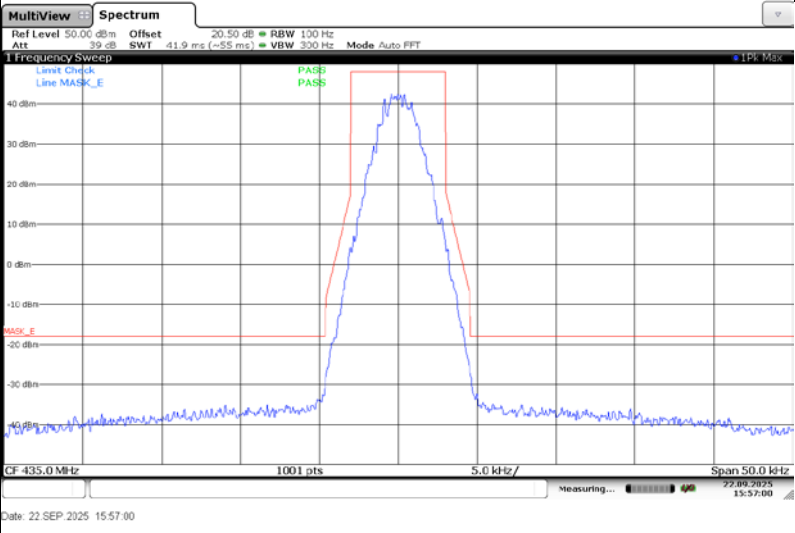
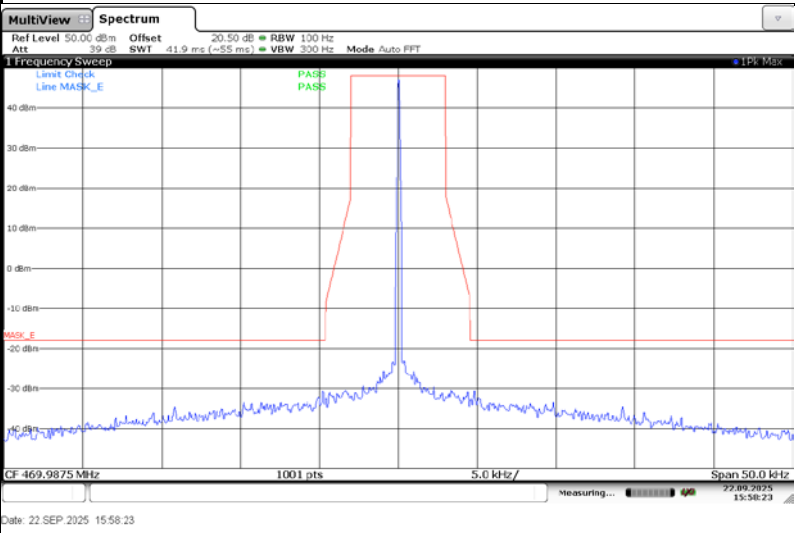
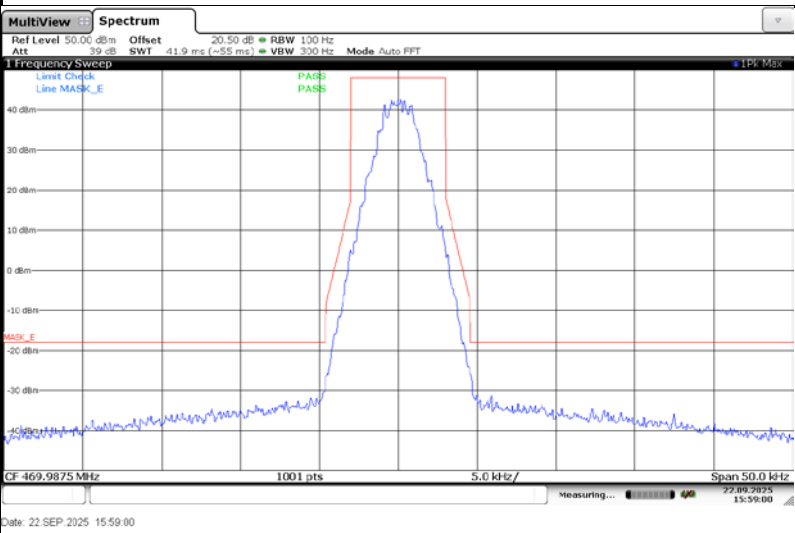
Appendix B:Occupied Bandwidth

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-ANL	FM	CH _L	 Agilent Spectrum Analyzer - Occupied BW Center Freq 400.012500 MHz Ref 47.09 dBm Occupied Bandwidth 9.963 kHz Total Power 43.2 dBm Transmit Freq Error 38 Hz x dB Bandwidth 10.16 kHz OBW Power 99.00 % x dB -26.00 dB
TX-ANL	FM	CH _M	 Agilent Spectrum Analyzer - Occupied BW Center Freq 435.000000 MHz Ref 46.83 dBm Occupied Bandwidth 9.969 kHz Total Power 43.0 dBm Transmit Freq Error 50 Hz x dB Bandwidth 10.16 kHz OBW Power 99.00 % x dB -26.00 dB
TX-ANL	FM	CH _H	 Agilent Spectrum Analyzer - Occupied BW Center Freq 469.987500 MHz Ref 47.03 dBm Occupied Bandwidth 9.971 kHz Total Power 43.1 dBm Transmit Freq Error 50 Hz x dB Bandwidth 10.16 kHz OBW Power 99.00 % x dB -26.00 dB

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-NXDNH	4FSK	CH _L	
TX-NXDNH	4FSK	CH _L	
TX-NXDNH	4FSK	CH _M	

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-NXDNH	4FSK	CH _M	
TX-NXDNH	4FSK	CH _H	
TX-NXDNH	4FSK	CH _H	

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-NXDNL	4FSK	CH _L	MultiView Spectrum Ref Level 50.00 dBm Offset 20.50 dB RBW 100 Hz Att 39 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep Line MASK_E Line PASS CF 400.0125 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz Measuring... 72.89.2625 15:05:09 Date: 22 SEP 2025 16:05:10
TX-NXDNL	4FSK	CH _L	MultiView Spectrum Ref Level 50.00 dBm Offset 20.50 dB RBW 100 Hz Att 39 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep Line MASK_E Line PASS CF 400.0125 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz Measuring... 72.89.2625 15:06:00 Date: 22 SEP 2025 16:06:00
TX-NXDNL	4FSK	CH _M	MultiView Spectrum Ref Level 50.00 dBm Offset 20.50 dB RBW 100 Hz Att 39 dB SWT 41.9 ms (~55 ms) VBW 300 Hz Mode Auto FFT 1 Frequency Sweep Line MASK_E Line PASS CF 435.0 MHz 1001 pts 5.0 kHz/ Span 50.0 kHz Measuring... 72.89.2625 15:03:02 Date: 22 SEP 2025 16:03:01

Appendix C:Emission Mask

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-NXDNL	4FSK	CH _M	
TX-NXDNL	4FSK	CH _H	
TX-NXDNL	4FSK	CH _H	