

**Appendix F:Frequency Stability Test & Temperature for VHF Band**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	-30	0.100	0.107	0.117	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.088	0.094	0.100	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.079	0.089	0.091	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.075	0.079	0.085	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.055	0.056	0.069	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.034	0.037	0.039	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.035	0.039	0.040	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.053	0.059	0.061	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.070	0.077	0.082	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.061	0.038	-0.090	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.055	0.031	-0.070	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.046	0.027	-0.073	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.025	0.016	-0.064	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.022	0.014	-0.052	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.013	0.008	-0.032	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.022	0.014	-0.055	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.047	0.028	-0.072	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.060	0.034	-0.085	±5.0	PASS

**Appendix F:Frequency Stability Test & Temperature for UHF Band**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _{L1}	CH _{M1}	CH _{M2}	CH _{M3}	CH _{H1}		
TX-DNH	4FSK	V _N	-30	0.138	0.115	0.171	0.222	0.108	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.112	0.102	0.145	0.184	0.090	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.109	0.094	0.135	0.174	0.084	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.091	0.081	0.116	0.149	0.072	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.082	0.073	0.104	0.134	0.064	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.078	0.069	0.099	0.127	0.061	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.080	0.072	0.109	0.130	0.061	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.144	0.135	0.197	0.152	0.107	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.147	0.126	0.170	0.239	0.106	±5.0	PASS
TX-DNL	4FSK	V _N	-30	0.079	0.332	0.234	0.264	0.194	±5.0	PASS
TX-DNL	4FSK	V _N	-20	0.072	0.303	0.207	0.237	0.180	±5.0	PASS
TX-DNL	4FSK	V _N	-10	0.049	0.204	0.139	0.162	0.114	±5.0	PASS
TX-DNL	4FSK	V _N	0	0.042	0.163	0.116	0.140	0.099	±5.0	PASS
TX-DNL	4FSK	V _N	10	0.030	0.133	0.091	0.096	0.074	±5.0	PASS
TX-DNL	4FSK	V _N	20	0.018	0.074	0.051	0.059	0.043	±5.0	PASS
TX-DNL	4FSK	V _N	30	0.022	0.132	0.088	0.103	0.047	±5.0	PASS
TX-DNL	4FSK	V _N	40	0.047	0.204	0.139	0.162	0.118	±5.0	PASS
TX-DNL	4FSK	V _N	55	0.068	0.271	0.174	0.216	0.152	±5.0	PASS

**Appendix G:Frequency Stability Test & Voltage for VHF Band**

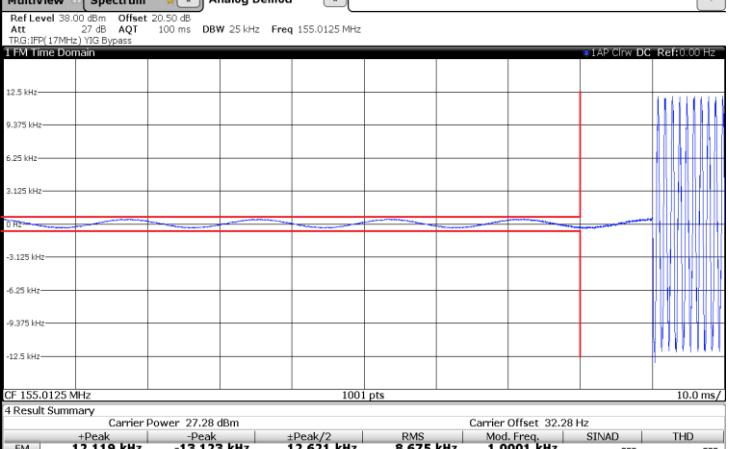
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _M	CH _H		
TX-DNH	4FSK	V _N	T _N	0.034	0.037	0.039	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.050	0.053	0.062	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.052	0.038	0.040	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.013	0.008	-0.032	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.022	0.014	-0.055	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.021	0.012	-0.048	±5.0	PASS

**Appendix G:Frequency Stability Test & Voltage for UHF Band**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)					Limit (ppm)	Result
		Voltage	Temperature	CH _{L1}	CH _{M1}	CH _{M2}	CH _{M3}	CH _{H1}		
TX-DNH	4FSK	V _N	T _N	0.078	0.069	0.099	0.127	0.061	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.095	0.086	0.125	<u>0.156</u>	0.075	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.098	0.073	0.102	0.129	0.063	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	0.018	0.074	0.051	0.059	0.043	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	0.024	<u>0.099</u>	0.069	0.081	0.060	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	0.023	0.097	0.067	0.075	0.056	±5.0	PASS



Appendix H:Transmitter Frequency Behavior for VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _M	 <p>CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 27.77 dBm +Peak 12.14 kHz -Peak -12.206 kHz +Peak/2 12.173 kHz RMS 2.742 kHz Mod. Freq. *** SINAD *** THD *** FM Date: 29.OCT.2018 15:39:34 Analog Demod: Waiting for Trigger... Measuring... 29.10.2018 15:39:34</p>
TX-DNH	4FSK	CH _M	 <p>CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary Carrier Power 27.28 dBm +Peak 12.119 kHz -Peak -13.123 kHz +Peak/2 12.621 kHz RMS 8.675 kHz Mod. Freq. 1.0001 kHz SINAD *** THD *** FM Date: 29.OCT.2018 15:39:02 Analog Demod: Waiting for Trigger... Measuring... 29.10.2018 15:39:02</p>



Appendix H:Transmitter Frequency Behavior for UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																												
TX-DNH	4FSK	CH _{M2}	<table border="1"><caption>Result Summary</caption><tr><td>Carrier Power</td><td>31.22 dBm</td><td>Carrier Offset</td><td>60.41 Hz</td></tr><tr><td>+Peak</td><td>28.394 kHz</td><td>-Peak</td><td>-12.404 kHz</td><td>+Peak/2</td><td>20.399 kHz</td><td>RMS</td><td>8.7667 kHz</td><td>Mod. Freq.</td><td>1.0478 kHz</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>Date: 29.OCT.2018 15:32:47</p> <p style="text-align: center;">OFF~ON</p>	Carrier Power	31.22 dBm	Carrier Offset	60.41 Hz	+Peak	28.394 kHz	-Peak	-12.404 kHz	+Peak/2	20.399 kHz	RMS	8.7667 kHz	Mod. Freq.	1.0478 kHz	SINAD	THD	FM											
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TX-DNH	4FSK	CH _{M2}	<table border="1"><caption>Result Summary</caption><tr><td>Carrier Power</td><td>30.89 dBm</td><td>Carrier Offset</td><td>71.40 Hz</td></tr><tr><td>+Peak</td><td>12.314 kHz</td><td>-Peak</td><td>-12.323 kHz</td><td>+Peak/2</td><td>12.319 kHz</td><td>RMS</td><td>2.7783 kHz</td><td>Mod. Freq.</td><td>***</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <p>Date: 29.OCT.2018 15:33:33</p> <p style="text-align: center;">ON-OFF</p>	Carrier Power	30.89 dBm	Carrier Offset	71.40 Hz	+Peak	12.314 kHz	-Peak	-12.323 kHz	+Peak/2	12.319 kHz	RMS	2.7783 kHz	Mod. Freq.	***	SINAD	THD	FM											
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Appendix I:Spurious Emission On Antenna Port for VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _L	<p>30MHz~1GHz</p>
TX-DNH	4FSK	CH _L	<p>1GHz~10th Harmonic</p>
TX-DNH	4FSK	CH _M	<p>30MHz~1GHz</p>



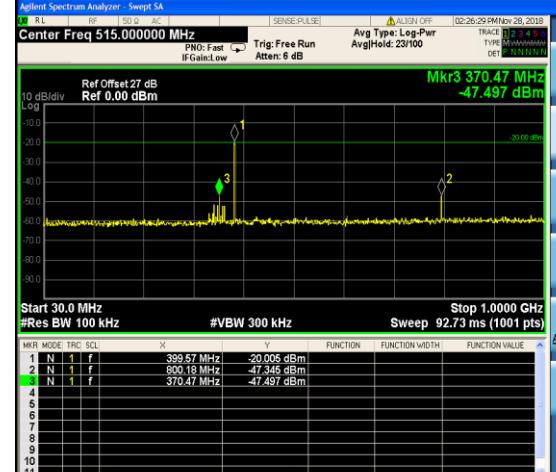
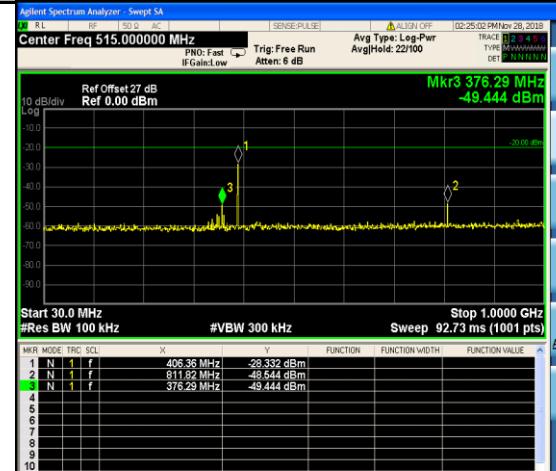
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																		
TX-DNH	4FSK	CH _M	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 1.275062500 GHz</p> <p>Ref Offset 19 dB Ref 0.00 dBm</p> <p>Start 1.0000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.5501 GHz Sweep 1.000 ms (1001 pts)</p> <p>Mkr1 1.3284 GHz -66.017 dBm</p> <p>Frequency Auto Tune Center Freq 1.275062500 GHz Start Freq 1.000000000 GHz Stop Freq 1.550125000 GHz CF Step 56.012500 MHz Auto Freq Offset 0 Hz</p> <p>1GHz~10th Harmonic</p>																																																																		
TX-DNH	4FSK	CH _H	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Ref Offset 26 dB Ref 0.00 dBm</p> <p>Start 30.000 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.0000 GHz Sweep 92.73 ms (1001 pts)</p> <p>Mkr3 521.79 MHz -40.532 dBm</p> <p>MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE</p> <table border="1"> <tr><td>1</td><td>N</td><td>1</td><td>f</td><td>173.56 MHz</td><td>-10.117 dBm</td></tr> <tr><td>2</td><td>N</td><td>1</td><td>f</td><td>348.16 MHz</td><td>-30.847 dBm</td></tr> <tr><td>3</td><td>N</td><td>1</td><td>f</td><td>521.79 MHz</td><td>-40.532 dBm</td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Freq Offset 0 Hz</p> <p>30MHz~1GHz</p>	1	N	1	f	173.56 MHz	-10.117 dBm	2	N	1	f	348.16 MHz	-30.847 dBm	3	N	1	f	521.79 MHz	-40.532 dBm	4						5						6						7						8						9						10						11					
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----End of Report----

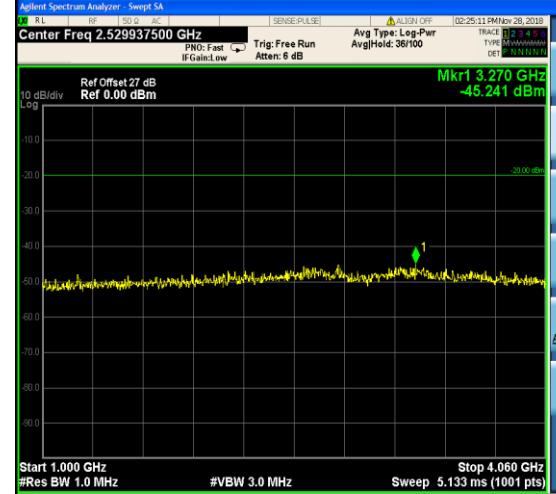
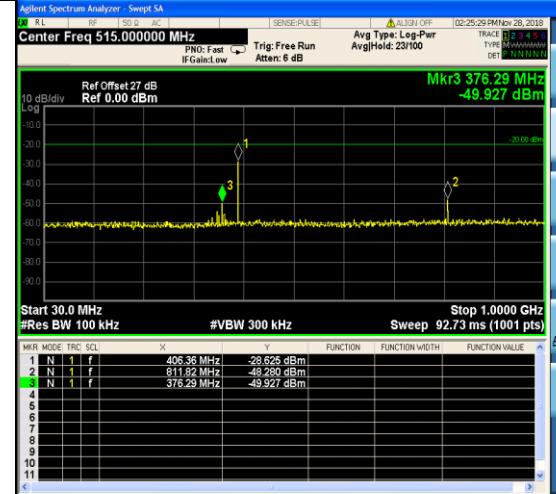
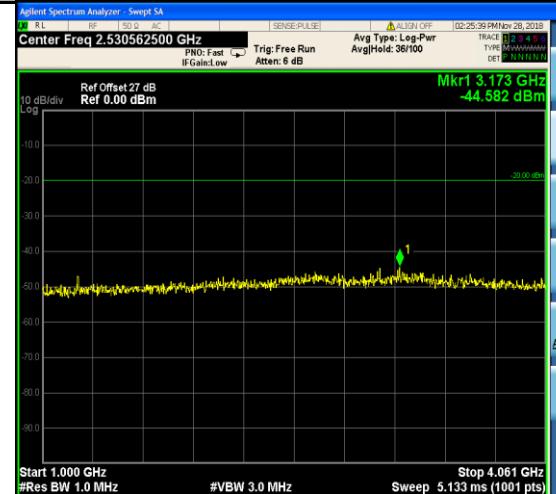


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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																									
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT	
TX-DNH	4FSK	CH _{M1}	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.059875000 GHz CF Step 305.987500 MHz Freq Offset 0 Hz Mkr1 3.270 GHz -45.241 dBm</p> <p>1GHz~10th Harmonic</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.529937500 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 4.059875000 GHz</p> <p>CF Step 305.987500 MHz</p> <p>Freq Offset 0 Hz</p>
TX-DNH	4FSK	CH _{M2}	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.00000 GHz CF Step 97.000000 MHz Freq Offset 0 Hz Mkr3 376.29 MHz -49.927 dBm Mkr1 3.173 GHz -44.582 dBm</p> <p>30MHz~1GHz</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz</p> <p>Freq Offset 0 Hz</p>
TX-DNH	4FSK	CH _{M2}	 <p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061125000 GHz CF Step 306.112500 MHz Freq Offset 0 Hz Mkr1 3.173 GHz -44.582 dBm</p> <p>1GHz~10th Harmonic</p>	<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.530562500 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 4.061125000 GHz</p> <p>CF Step 306.112500 MHz</p> <p>Freq Offset 0 Hz</p>



Appendix I:Spurious Emission On Antenna Port for UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																																								
TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Start 30.000 MHz Stop 1.00000 GHz</p> <p>#VBW 300 kHz Sweep 92.73 ms (1001 pts)</p> <p>Mkr3 438.37 MHz -54.557 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>30MHz~1GHz</p> <table border="1"><caption>Marker Data</caption><thead><tr><th>MKR MODE TRC SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1 N 1 f</td><td>438.37 MHz</td><td>-54.557 dBm</td><td></td><td></td><td></td></tr><tr><td>2 N 1 f</td><td>438.37 MHz</td><td>-54.557 dBm</td><td></td><td></td><td></td></tr><tr><td>3 N 1 f</td><td>438.37 MHz</td><td>-54.557 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> <p>No Peak Found</p>	MKR MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1 N 1 f	438.37 MHz	-54.557 dBm				2 N 1 f	438.37 MHz	-54.557 dBm				3 N 1 f	438.37 MHz	-54.557 dBm				4						5						6						7						8						9						10						11					
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TX-DNH	4FSK	CH _{M3}	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.6900062500 GHz</p> <p>Start 1.000 GHz Stop 4.380 GHz</p> <p>#VBW 1.0 MHz Sweep 5.667 ms (1001 pts)</p> <p>Mkr1 1.314 GHz -43.041 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 2.6900062500 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 4.380125000 GHz</p> <p>CF Step 338.012500 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>File <Temp.png> saved</p> <p>1GHz~10th Harmonic</p>																																																																								
TX-DNH	4FSK	CH _{H1}	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 515.000000 MHz</p> <p>Start 30.000 MHz Stop 1.00000 GHz</p> <p>#VBW 300 kHz Sweep 92.73 ms (1001 pts)</p> <p>Mkr3 939.86 MHz -54.953 dBm</p> <p>Frequency Auto Tune</p> <p>Center Freq 515.000000 MHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 1.000000000 GHz</p> <p>CF Step 97.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>30MHz~1GHz</p> <table border="1"><caption>Marker Data</caption><thead><tr><th>MKR MODE TRC SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1 N 1 f</td><td>470.38 MHz</td><td>-46.060 dBm</td><td></td><td></td><td></td></tr><tr><td>2 N 1 f</td><td>939.86 MHz</td><td>-54.953 dBm</td><td></td><td></td><td></td></tr><tr><td>3 N 1 f</td><td>939.86 MHz</td><td>-54.953 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> <p>No Peak Found</p>	MKR MODE TRC SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1 N 1 f	470.38 MHz	-46.060 dBm				2 N 1 f	939.86 MHz	-54.953 dBm				3 N 1 f	939.86 MHz	-54.953 dBm				4						5						6						7						8						9						10						11					
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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{H1}	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>SENSE: PULSE</p> <p>ALERT OFF (02-24-27 PM Oct 20, 2018)</p> <p>Center Freq 2.849937500 GHz</p> <p>PHG: Fast Trig: Free Run Avg Type Log-Pwr</p> <p>IF Gain: low Avg Hold: 32/100</p> <p>MTRC: 100% TYPE: DFT DFT: 3.161600</p> <p>Ref Offset 27 dB Mkr1 3.760 GHz</p> <p>Ref 0.00 dBm -45.164 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>-10.0</p> <p>-20.0</p> <p>-30.0</p> <p>-40.0</p> <p>-50.0</p> <p>-60.0</p> <p>-70.0</p> <p>-80.0</p> <p>-90.0</p> <p>-30.00 dBm</p> <p>Start 1.000 GHz Stop 4.700 GHz</p> <p>#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 6.200 ms (1001 pts)</p> <p>MSG: File <Temp.png> saved STATUS</p> <p>Frequency Auto Tune</p> <p>Center Freq 2.849937500 GHz</p> <p>Start Freq 1.000000000 GHz</p> <p>Stop Freq 4.699875000 GHz</p> <p>CF Step 369.9875000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p> <p>1GHz~10th Harmonic</p>

----End of Report----