



Appendix C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																															
TX-DNL	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 120.0 kHz AC SENSE PULSE ALIGN OFF 05:17:35 PM Nov 29, 2018 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run #Att: 40 dB Radio Device: BTS PASS IF Gain: Low Ref Offset 37 dB Ref 28.0 dBm 10 dB/div Log 18.0 0.00 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 Modulation Mask Absolute Limit Spectrum Center 470 MHz Span 120 kHz Total Power Ref 22.14 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>22.21</td><td>(-2.06)</td><td>-350.0</td><td>-19.57</td><td>(-43.84)</td><td>600.0</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-50.94</td><td>(-4.86)</td><td>-12.35 k</td><td>-49.88</td><td>(-3.80)</td><td>12.35 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-47.69</td><td>(-27.69)</td><td>-14.50 k</td><td>-46.25</td><td>(-26.25)</td><td>17.10 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <MASK.D.state> recalled (status) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	22.21	(-2.06)	-350.0	-19.57	(-43.84)	600.0	5.625 kHz	12.50 kHz	100.0 Hz	-50.94	(-4.86)	-12.35 k	-49.88	(-3.80)	12.35 k	12.50 kHz	60.00 kHz	100.0 Hz	-47.69	(-27.69)	-14.50 k	-46.25	(-26.25)	17.10 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
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4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
TX-DNL	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Spectrum Emission Mask RL RF 120.0 kHz AC SENSE PULSE ALIGN OFF 05:18:24 PM Nov 29, 2018 Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None Trig: Free Run #Att: 40 dB Avg: 100.00% of 10 Radio Device: BTS PASS IF Gain: Low Ref Offset 37 dB Ref 28.0 dBm 10 dB/div Log 18.0 0.00 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 Modulation Mask Absolute Limit Spectrum Center 470 MHz Span 120 kHz Total Power Ref 25.26 dBm/0.0125 MHz <table><thead><tr><th>Start Freq</th><th>Stop Freq</th><th>Integ BW</th><th>dBm</th><th>Lower ΔLim(dB)</th><th>Freq (Hz)</th><th>Peak ΔLim(dB)</th><th>Upper ΔLim(dB)</th><th>Freq (Hz)</th></tr></thead><tbody><tr><td>0.0 Hz</td><td>5.625 kHz</td><td>100.0 Hz</td><td>12.48</td><td>(-11.78)</td><td>-400.0</td><td>11.29</td><td>(-12.98)</td><td>1.950 k</td></tr><tr><td>5.625 kHz</td><td>12.50 kHz</td><td>100.0 Hz</td><td>-48.26</td><td>(-1.09)</td><td>-12.50 k</td><td>-49.04</td><td>(-3.33)</td><td>12.30 k</td></tr><tr><td>12.50 kHz</td><td>60.00 kHz</td><td>100.0 Hz</td><td>-45.89</td><td>(-25.89)</td><td>-13.50 k</td><td>-45.85</td><td>(-25.85)</td><td>14.70 k</td></tr><tr><td>4.000 MHz</td><td>8.000 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>8.000 MHz</td><td>12.50 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr><tr><td>12.50 MHz</td><td>15.00 MHz</td><td>1.000 MHz</td><td>—</td><td>(—)</td><td>—</td><td>—</td><td>(—)</td><td>—</td></tr></tbody></table> File <Temp.png> saved (status) Frequency Center Freq 469.987500 MHz CF Step 12.000 kHz Man Freq Offset 0 Hz	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)	0.0 Hz	5.625 kHz	100.0 Hz	12.48	(-11.78)	-400.0	11.29	(-12.98)	1.950 k	5.625 kHz	12.50 kHz	100.0 Hz	-48.26	(-1.09)	-12.50 k	-49.04	(-3.33)	12.30 k	12.50 kHz	60.00 kHz	100.0 Hz	-45.89	(-25.89)	-13.50 k	-45.85	(-25.85)	14.70 k	4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—	8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—	12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—
Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Freq (Hz)	Peak ΔLim(dB)	Upper ΔLim(dB)	Freq (Hz)																																																										
0.0 Hz	5.625 kHz	100.0 Hz	12.48	(-11.78)	-400.0	11.29	(-12.98)	1.950 k																																																										
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12.50 kHz	60.00 kHz	100.0 Hz	-45.89	(-25.89)	-13.50 k	-45.85	(-25.85)	14.70 k																																																										
4.000 MHz	8.000 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
8.000 MHz	12.50 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										
12.50 MHz	15.00 MHz	1.000 MHz	—	(—)	—	—	(—)	—																																																										

**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	0.059	0.056	0.079	±5.0	PASS
TX-DNH	4FSK	V _N	-20	0.042	0.047	<u>0.084</u>	±5.0	PASS
TX-DNH	4FSK	V _N	-10	0.031	0.037	0.061	±5.0	PASS
TX-DNH	4FSK	V _N	0	0.025	0.022	0.061	±5.0	PASS
TX-DNH	4FSK	V _N	10	0.018	0.019	0.045	±5.0	PASS
TX-DNH	4FSK	V _N	20	0.009	0.010	0.023	±5.0	PASS
TX-DNH	4FSK	V _N	30	0.027	0.030	0.046	±5.0	PASS
TX-DNH	4FSK	V _N	40	0.034	0.037	0.052	±5.0	PASS
TX-DNH	4FSK	V _N	55	0.055	0.061	0.081	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.062	0.075	0.074	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.047	0.049	0.050	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.035	0.057	0.057	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.033	0.034	0.038	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.027	0.032	0.031	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.009	0.016	0.016	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.025	0.028	0.042	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.041	0.045	0.041	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.060	0.062	0.061	±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	-0.035	-0.080	-0.057	-0.058	-0.066	±5.0	PASS
TX-DNH	4FSK	V _N	-20	-0.037	-0.076	-0.051	-0.060	-0.064	±5.0	PASS
TX-DNH	4FSK	V _N	-10	-0.022	-0.057	-0.040	-0.037	-0.049	±5.0	PASS
TX-DNH	4FSK	V _N	0	-0.014	-0.051	-0.037	-0.022	-0.046	±5.0	PASS
TX-DNH	4FSK	V _N	10	-0.010	-0.050	-0.034	-0.017	-0.041	±5.0	PASS
TX-DNH	4FSK	V _N	20	-0.003	-0.021	-0.015	-0.005	-0.018	±5.0	PASS
TX-DNH	4FSK	V _N	30	-0.012	-0.042	-0.032	-0.020	-0.048	±5.0	PASS
TX-DNH	4FSK	V _N	40	-0.016	-0.054	-0.038	-0.027	-0.062	±5.0	PASS
TX-DNH	4FSK	V _N	55	-0.020	-0.060	-0.043	-0.033	-0.072	±5.0	PASS
TX-DNL	4FSK	V _N	-30	-0.078	-0.068	<u>0.026</u>	-0.055	-0.081	±5.0	PASS
TX-DNL	4FSK	V _N	-20	-0.069	-0.066	0.024	-0.055	-0.072	±5.0	PASS
TX-DNL	4FSK	V _N	-10	-0.063	-0.058	0.022	-0.048	-0.071	±5.0	PASS
TX-DNL	4FSK	V _N	0	-0.057	-0.053	0.018	-0.044	-0.064	±5.0	PASS
TX-DNL	4FSK	V _N	10	-0.048	-0.042	0.016	-0.037	-0.052	±5.0	PASS
TX-DNL	4FSK	V _N	20	-0.033	-0.030	0.011	-0.025	-0.036	±5.0	PASS
TX-DNL	4FSK	V _N	30	-0.059	-0.051	0.020	-0.044	-0.062	±5.0	PASS
TX-DNL	4FSK	V _N	40	-0.063	-0.055	0.020	-0.047	-0.067	±5.0	PASS
TX-DNL	4FSK	V _N	55	-0.067	-0.064	0.024	-0.051	-0.074	±5.0	PASS

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

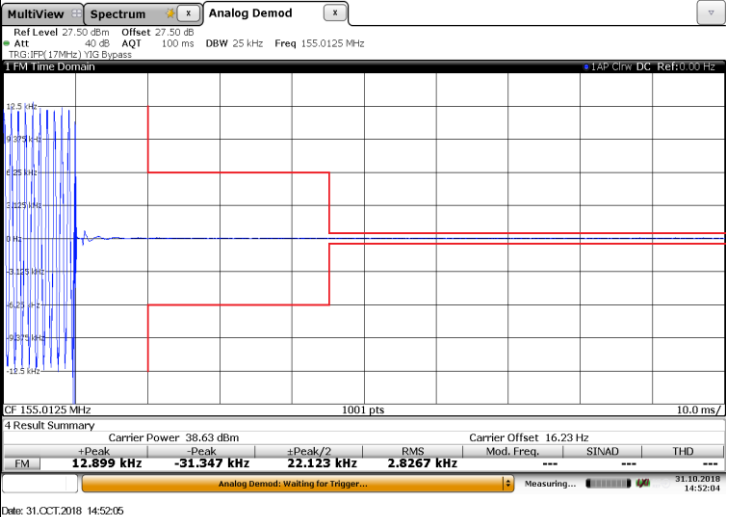
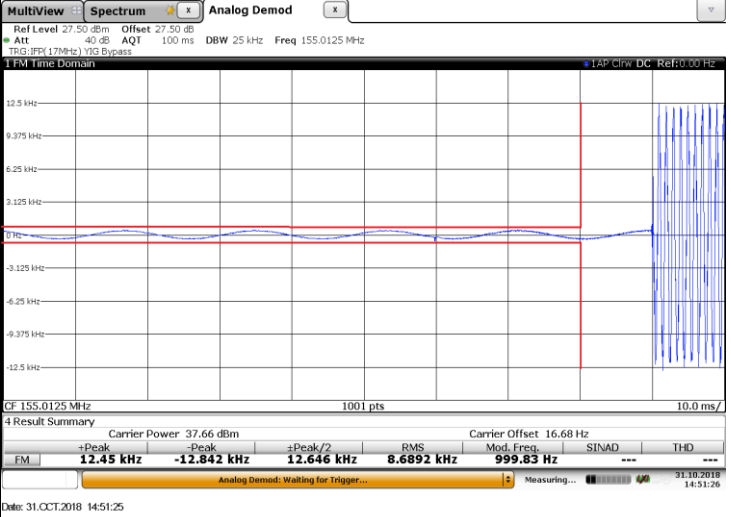
Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH _L	CH _{M1}	CH _H		
TX-DNH	4FSK	V _N	T _N	0.009	0.010	0.023	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	0.024	0.027	<u>0.062</u>	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	0.016	0.027	0.045	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.009	0.016	0.016	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.020	0.039	<u>0.041</u>	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.014	0.024	0.025	±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	<u>-0.003</u>	-0.021	-0.015	-0.005	-0.018	±5.0	PASS
TX-DNH	4FSK	V _L	T _N	-0.010	-0.070	-0.050	-0.017	-0.058	±5.0	PASS
TX-DNH	4FSK	V _H	T _N	-0.010	-0.028	-0.023	-0.009	-0.027	±5.0	PASS
TX-DNL	4FSK	V _N	T _N	-0.033	-0.030	0.011	-0.025	-0.036	±5.0	PASS
TX-DNL	4FSK	V _L	T _N	-0.061	-0.056	<u>0.021</u>	-0.046	-0.072	±5.0	PASS
TX-DNL	4FSK	V _H	T _N	-0.052	-0.040	0.017	-0.037	-0.053	±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	 MultiView Spectrum Analog Demod Ref Level 27.50 dBm Offset 27.50 dB Att 40 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG: JPK (17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td>Carrier Power</td><td>38.63 dBm</td><td>Carrier Offset</td><td>16.23 Hz</td></tr><tr><td>+Peak</td><td>12.899 kHz</td><td>-Peak</td><td>-31.347 kHz</td></tr><tr><td>+Peak/2</td><td>22.123 kHz</td><td>RMS</td><td>2.8267 kHz</td></tr><tr><td>Mod. Freq.</td><td></td><td>SINAD</td><td></td></tr><tr><td>THD</td><td></td><td></td><td></td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 31.10.2018 14:52:04 Date: 31.OCT.2018 14:52:05 OFF-ON	Carrier Power	38.63 dBm	Carrier Offset	16.23 Hz	+Peak	12.899 kHz	-Peak	-31.347 kHz	+Peak/2	22.123 kHz	RMS	2.8267 kHz	Mod. Freq.		SINAD		THD			
Carrier Power	38.63 dBm	Carrier Offset	16.23 Hz																				
+Peak	12.899 kHz	-Peak	-31.347 kHz																				
+Peak/2	22.123 kHz	RMS	2.8267 kHz																				
Mod. Freq.		SINAD																					
THD																							
TX-DNH	4FSK	CH _M	 MultiView Spectrum Analog Demod Ref Level 27.50 dBm Offset 27.50 dB Att 40 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz TRG: JPK (17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 kHz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz CF 155.0125 MHz 1001 pts 10.0 ms/ 4 Result Summary <table><tr><td>Carrier Power</td><td>37.66 dBm</td><td>Carrier Offset</td><td>16.68 Hz</td></tr><tr><td>+Peak</td><td>12.45 kHz</td><td>-Peak</td><td>-12.842 kHz</td></tr><tr><td>+Peak/2</td><td>12.646 kHz</td><td>RMS</td><td>8.6892 kHz</td></tr><tr><td>Mod. Freq.</td><td></td><td>SINAD</td><td></td></tr><tr><td>THD</td><td></td><td></td><td></td></tr></table> Analog Demod: Waiting for Trigger... Measuring... 31.10.2018 14:51:26 Date: 31.OCT.2018 14:51:25 ON-OFF	Carrier Power	37.66 dBm	Carrier Offset	16.68 Hz	+Peak	12.45 kHz	-Peak	-12.842 kHz	+Peak/2	12.646 kHz	RMS	8.6892 kHz	Mod. Freq.		SINAD		THD			
Carrier Power	37.66 dBm	Carrier Offset	16.68 Hz																				
+Peak	12.45 kHz	-Peak	-12.842 kHz																				
+Peak/2	12.646 kHz	RMS	8.6892 kHz																				
Mod. Freq.		SINAD																					
THD																							



Appendix H:Transmitter Frequency Behavior For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																								
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 27.50 dBm Offset 27.50 dB Att 40 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: JPK (17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 Hz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td></td><td>Carrier Power</td><td>33.47 dBm</td><td></td><td>Carrier Offset</td><td>-11.87 Hz</td><td></td><td></td></tr><tr><td></td><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td>12.344 kHz</td><td>-12.642 kHz</td><td>12.493 kHz</td><td>8.7819 kHz</td><td>1.0043 kHz</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...31.10.2018 14:48:16 Date: 31.OCT.2018 14:48:17 OFF-ON		Carrier Power	33.47 dBm		Carrier Offset	-11.87 Hz				+Peak	-Peak	+Peak/2	RMS	Mod. Freq	SINAD	THD	FM	12.344 kHz	-12.642 kHz	12.493 kHz	8.7819 kHz	1.0043 kHz	---	---
	Carrier Power	33.47 dBm		Carrier Offset	-11.87 Hz																						
	+Peak	-Peak	+Peak/2	RMS	Mod. Freq	SINAD	THD																				
FM	12.344 kHz	-12.642 kHz	12.493 kHz	8.7819 kHz	1.0043 kHz	---	---																				
TX-DNH	4FSK	CH _{M2}	MultiViewSpectrumAnalog Demod Ref Level 27.50 dBm Offset 27.50 dB Att 40 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz TRG: JPK (17MHz) YIG Bypass 1 FM Time Domain 12.5 kHz 9.375 kHz 6.25 kHz 3.125 kHz 0 Hz -3.125 kHz -6.25 kHz -9.375 kHz -12.5 kHz CF 406.1125 MHz1001 pts10.0 ms/ 4 Result Summary <table><tr><td></td><td>Carrier Power</td><td>32.68 dBm</td><td></td><td>Carrier Offset</td><td>-13.91 Hz</td><td></td><td></td></tr><tr><td></td><td>+Peak</td><td>-Peak</td><td>+Peak/2</td><td>RMS</td><td>Mod. Freq</td><td>SINAD</td><td>THD</td></tr><tr><td>FM</td><td>12.799 kHz</td><td>-17.781 kHz</td><td>15.29 kHz</td><td>2.7894 kHz</td><td>---</td><td>---</td><td>---</td></tr></table> Analog Demod: Waiting for Trigger...Measuring...31.10.2018 14:49:26 Date: 31.OCT.2018 14:49:26 ON-OFF		Carrier Power	32.68 dBm		Carrier Offset	-13.91 Hz				+Peak	-Peak	+Peak/2	RMS	Mod. Freq	SINAD	THD	FM	12.799 kHz	-17.781 kHz	15.29 kHz	2.7894 kHz	---	---	---
	Carrier Power	32.68 dBm		Carrier Offset	-13.91 Hz																						
	+Peak	-Peak	+Peak/2	RMS	Mod. Freq	SINAD	THD																				
FM	12.799 kHz	-17.781 kHz	15.29 kHz	2.7894 kHz	---	---	---																				



Appendix I:Spurious Emission On Antenna Port For VHF Band

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

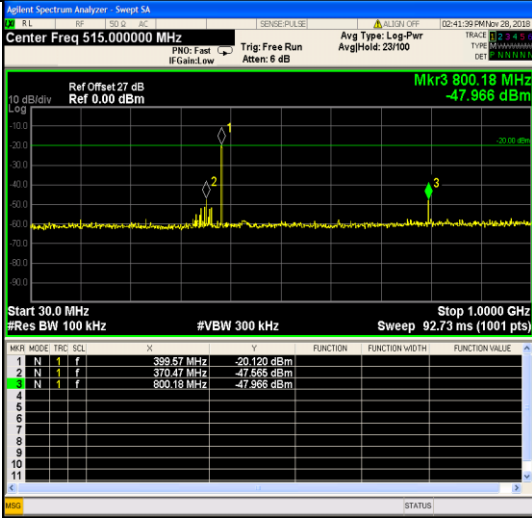
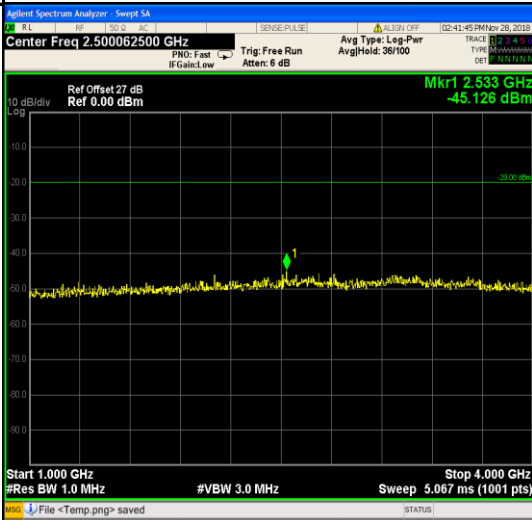
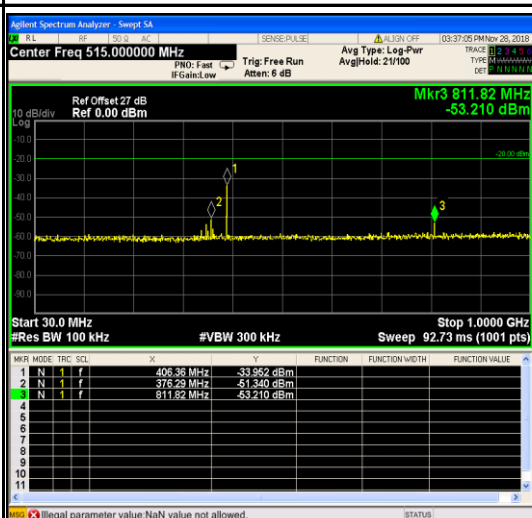


Appendix I:Spurious Emission On Antenna Port For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _M	Agilent Spectrum Analyzer - Sweep SA RL FS

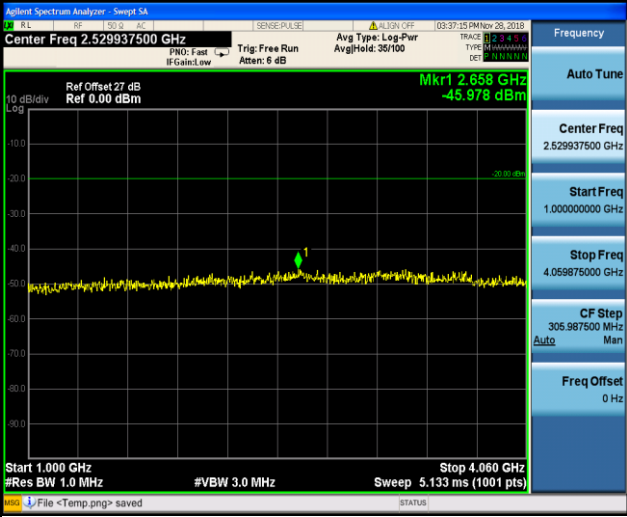
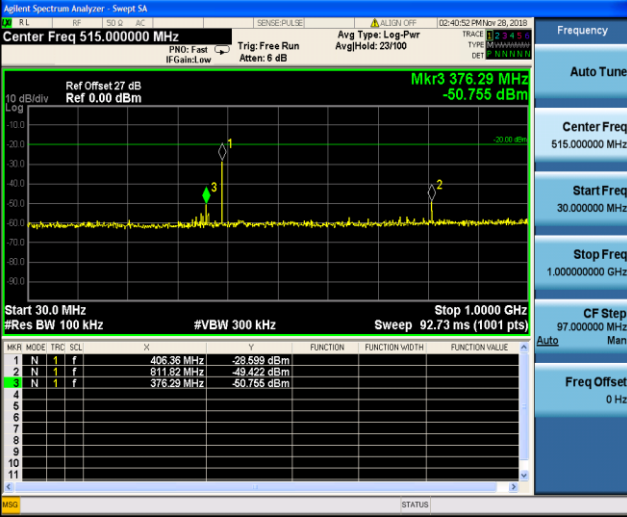


Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH _{L1}	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 800.18 MHz -47.966 dBm  Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) <table><thead><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>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</td><td>N</td><td>1</td><td>f</td><td>399.57 MHz</td><td>-20.120 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>370.47 MHz</td><td>-47.565 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>800.18 MHz</td><td>-47.966 dBm</td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	399.57 MHz	-20.120 dBm				2	N	1	f	370.47 MHz	-47.565 dBm				3	N	1	f	800.18 MHz	-47.966 dBm			
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TX-DNH	4FSK	CH _{L1}	Agilent Spectrum Analyzer - Sweep SA Center Freq 2.500062500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 2.533 GHz -45.126 dBm  Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.067 ms (1001 pts) File <Temp.png> saved Frequency Auto Tune Center Freq 2.500062500 GHz Start Freq 1.000000000 GHz Stop Freq 4.000125000 GHz CF Step 300.012500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic																																				
TX-DNH	4FSK	CH _{M1}	Agilent Spectrum Analyzer - Sweep SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -53.210 dBm  Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) <table><thead><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>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</td><td>N</td><td>1</td><td>f</td><td>406.36 MHz</td><td>-33.952 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>376.29 MHz</td><td>-51.340 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>811.82 MHz</td><td>-53.210 dBm</td><td></td><td></td><td></td></tr></tbody></table> Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	406.36 MHz	-33.952 dBm				2	N	1	f	376.29 MHz	-51.340 dBm				3	N	1	f	811.82 MHz	-53.210 dBm			
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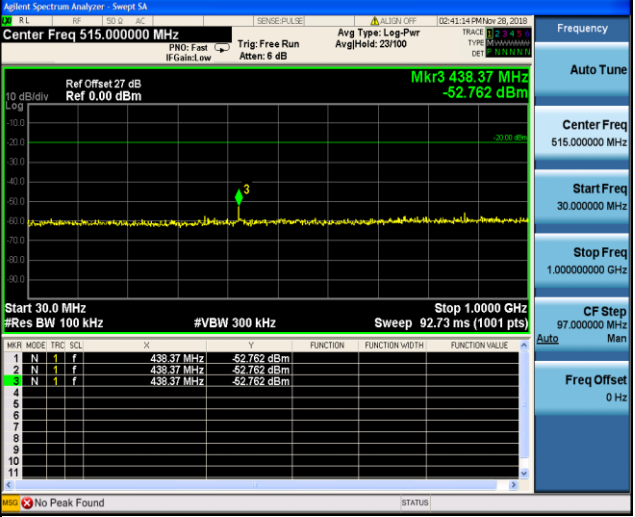
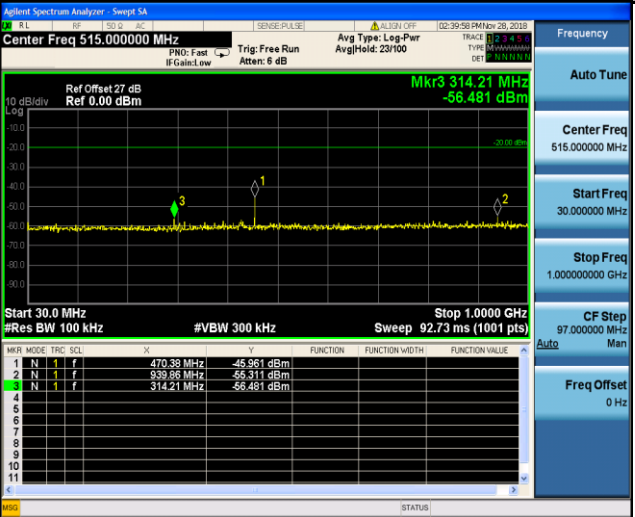


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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M1}	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.529937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 2.658 GHz -45.978 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) Frequency Auto Tune Center Freq 2.529937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.059875000 GHz CF Step 305.987500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 376.29 MHz -50.755 dBm Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Frequency Auto Tune Center Freq 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Auto Man Freq Offset 0 Hz 30MHz~1GHz
TX-DNH	4FSK	CH _{M2}	 Agilent Spectrum Analyzer - Swept SA Center Freq 2.530562500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.180 GHz -45.676 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.133 ms (1001 pts) Frequency Auto Tune Center Freq 2.530562500 GHz Start Freq 1.000000000 GHz Stop Freq 4.061125000 GHz CF Step 305.112500 MHz Auto Man Freq Offset 0 Hz 1GHz~10th Harmonic



Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{M3}	 30MHz~1GHz
TX-DNH	4FSK	CH _{M3}	 1GHz~10th Harmonic
TX-DNH	4FSK	CH _{H1}	 30MHz~1GHz



Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH _{H1}	Agilent Spectrum Analyzer - Sweep 1A Center Freq 2.849937500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 3.760 GHz -45.822 dBm Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 6.200 ms (1001 pts) Frequency Auto Tune Center Freq 2.849937500 GHz Start Freq 1.000000000 GHz Stop Freq 4.699875000 GHz CF Step 369.987500 MHz Auto Man Freq Offset 0 Hz File <Temp.png> saved (STATUS) 1GHz~10th Harmonic

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