



Appendix C:Emission Mask For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																																								
TX-DNL	4FSK	CH <sub>H1</sub>	<p>Agilent Spectrum Analyzer - Spectrum Emission Mask</p> <p>Center Freq 469.987500 MHz Center Freq: 469.987500 MHz Radio Std: None</p> <p>Trig: Free Run #Atten: 40 dB Radio Device: BTS</p> <p>Ref Offset 37 dB Ref 28.0 dBm</p> <p>Center 470 MHz Span 120 kHz</p> <p>Total Power Ref 22.14 dBm/0.0125 MHz</p> <table border="1"> <thead> <tr> <th>Start Freq</th> <th>Stop Freq</th> <th>Integ BW</th> <th>dBm</th> <th>Lower ΔLim(dB)</th> <th>Peak (dBm)</th> <th>Upper ΔLim(dB)</th> <th>Upper 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) 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) 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) 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> </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> </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> </tr> </tbody> </table> <p>File &lt;MASK D.state&gt; recalled</p>	Start Freq	Stop Freq	Integ BW	dBm	Lower ΔLim(dB)	Peak (dBm)	Upper ΔLim(dB)	Upper 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	—	(—)	—	—	(—)
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**Appendix F:Frequency Stability Test & Temperature For VHF Band**

Operation Mode	Modulation Type	Test Conditions		Frequency error (ppm)			Limit (ppm)	Result
		Voltage	Temperature	CH <sub>L</sub>	CH <sub>M</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	-30	0.059	0.056	0.079	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	0.042	0.047	<b>0.084</b>	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	0.031	0.037	0.061	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	0.025	0.022	0.061	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	0.018	0.019	0.045	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	0.009	0.010	0.023	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	0.027	0.030	0.046	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	0.034	0.037	0.052	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	55	0.055	0.061	0.081	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	-0.062	0.075	0.074	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	-0.047	0.049	0.050	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	-0.035	0.057	0.057	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	-0.033	0.034	0.038	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	-0.027	0.032	0.031	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	-0.009	0.016	0.016	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	-0.025	0.028	0.042	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	-0.041	0.045	0.041	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	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 <sub>L1</sub>	CH <sub>M1</sub>	CH <sub>M2</sub>	CH <sub>M3</sub>	CH <sub>H1</sub>		
TX-DNH	4FSK	V <sub>N</sub>	-30	-0.035	-0.080	-0.057	-0.058	-0.066	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-20	-0.037	-0.076	-0.051	-0.060	-0.064	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	-10	-0.022	-0.057	-0.040	-0.037	-0.049	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	0	-0.014	-0.051	-0.037	-0.022	-0.046	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	10	-0.010	-0.050	-0.034	-0.017	-0.041	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	20	-0.003	-0.021	-0.015	-0.005	-0.018	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	30	-0.012	-0.042	-0.032	-0.020	-0.048	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	40	-0.016	-0.054	-0.038	-0.027	-0.062	±5.0	PASS
TX-DNH	4FSK	V <sub>N</sub>	55	-0.020	-0.060	-0.043	-0.033	-0.072	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-30	-0.078	-0.068	<u>0.026</u>	-0.055	-0.081	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-20	-0.069	-0.066	0.024	-0.055	-0.072	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	-10	-0.063	-0.058	0.022	-0.048	-0.071	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	0	-0.057	-0.053	0.018	-0.044	-0.064	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	10	-0.048	-0.042	0.016	-0.037	-0.052	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	20	-0.033	-0.030	0.011	-0.025	-0.036	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	30	-0.059	-0.051	0.020	-0.044	-0.062	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	40	-0.063	-0.055	0.020	-0.047	-0.067	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	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 <sub>L</sub>	CH <sub>M1</sub>	CH <sub>H</sub>		
TX-DNH	4FSK	V <sub>N</sub>	T <sub>N</sub>	0.009	0.010	0.023	±5.0	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	0.024	0.027	<b><u>0.062</u></b>	±5.0	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	0.016	0.027	0.045	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.009	0.016	0.016	±5.0	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.020	0.039	<b><u>0.041</u></b>	±5.0	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	-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 <sub>L1</sub>	CH <sub>M1</sub>	CH <sub>M2</sub>	CH <sub>M3</sub>	CH <sub>H1</sub>		
TX-DNH	4FSK	V <sub>N</sub>	T <sub>N</sub>	<b><u>-0.003</u></b>	-0.021	-0.015	-0.005	-0.018	±5.0	PASS
TX-DNH	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.010	-0.070	-0.050	-0.017	-0.058	±5.0	PASS
TX-DNH	4FSK	V <sub>H</sub>	T <sub>N</sub>	-0.010	-0.028	-0.023	-0.009	-0.027	±5.0	PASS
TX-DNL	4FSK	V <sub>N</sub>	T <sub>N</sub>	-0.033	-0.030	0.011	-0.025	-0.036	±5.0	PASS
TX-DNL	4FSK	V <sub>L</sub>	T <sub>N</sub>	-0.061	-0.056	<b><u>0.021</u></b>	-0.046	-0.072	±5.0	PASS
TX-DNL	4FSK	V <sub>H</sub>	T <sub>N</sub>	-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 <sub>M</sub>	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 27.50 dBm Offset 27.50 dB      Att 40 dB AQT 100 ms DBW 25 kHz Freq 155.0125 MHz      TRG:IFP(17MHz) VGS Bypass</p> <p>1 FM Time Domain</p> <p>CF 155.0125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></th> <th>Carrier Power</th> <th>Carrier Offset</th> </tr> </thead> <tbody> <tr> <td></td> <td>38.63 dBm</td> <td>16.23 Hz</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th></th> <th>+Peak</th> <th>-Peak</th> <th>+Peak/2</th> <th>RMS</th> <th>Mod. Freq.</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <tr> <td>FM</td> <td>12.899 kHz</td> <td>-31.347 kHz</td> <td>22.123 kHz</td> <td>2.8267 kHz</td> <td>---</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Analog Demod: Waiting for Trigger...</p> <p>Date: 31.OCT.2018 14:52:05</p> <p>OFF~ON</p>		Carrier Power	Carrier Offset		38.63 dBm	16.23 Hz		+Peak	-Peak	+Peak/2	RMS	Mod. Freq.	SINAD	THD	FM	12.899 kHz	-31.347 kHz	22.123 kHz	2.8267 kHz	---	---	---
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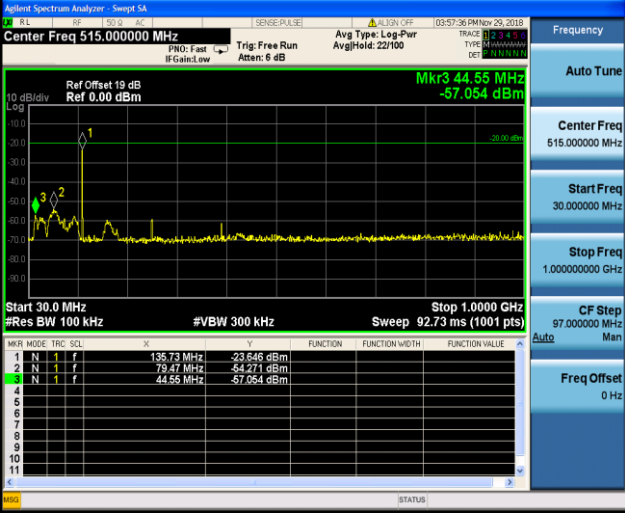
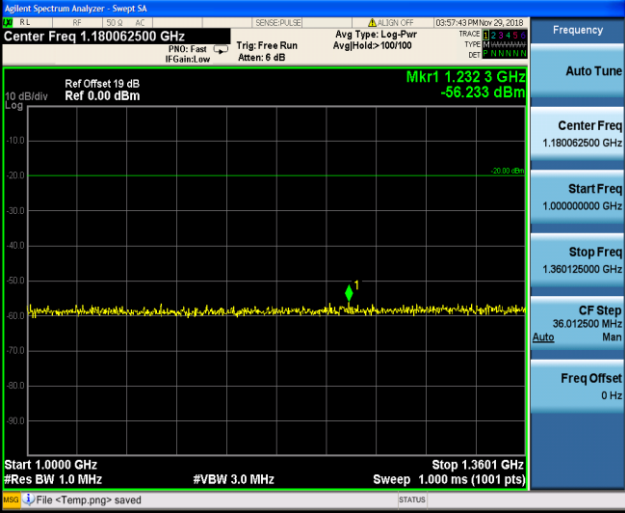
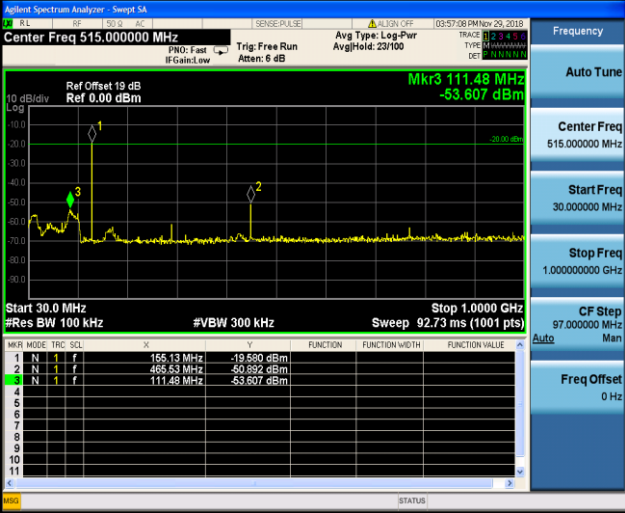


Appendix H:Transmitter Frequency Behavior For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																
TX-DNH	4FSK	CH <sub>M2</sub>	<p>MultiView Spectrum Analog Demod</p> <p>Ref Level 27.50 dBm Offset 27.50 dB</p> <p>ATT 40 dB AQT 100 ms DBW 25 kHz Freq 406.1125 MHz</p> <p>TG: JFSK (17MHz) YGS Bypass</p> <p>1 FM Time Domain</p> <p>CF 406.1125 MHz 1001 pts 10.0 ms/</p> <p>4 Result Summary</p> <table border="1"> <thead> <tr> <th></th> <th>+Peak</th> <th>-Peak</th> <th>±Peak/2</th> <th>RMS</th> <th>Carrier Offset</th> <th>SINAD</th> <th>THD</th> </tr> </thead> <tbody> <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>-11.87 Hz</td> <td>---</td> <td>---</td> </tr> </tbody> </table> <p>Date: 31.OCT.2018 14:48:17</p> <p>OFF~ON</p>		+Peak	-Peak	±Peak/2	RMS	Carrier Offset	SINAD	THD	FM	12.344 kHz	-12.642 kHz	12.493 kHz	8.7819 kHz	-11.87 Hz	---	---
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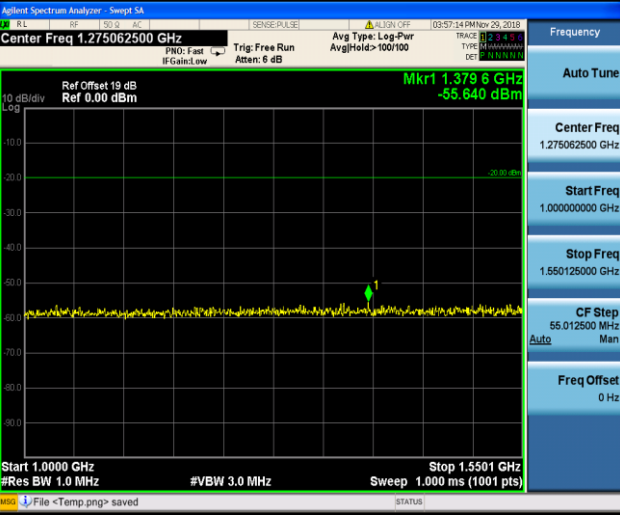
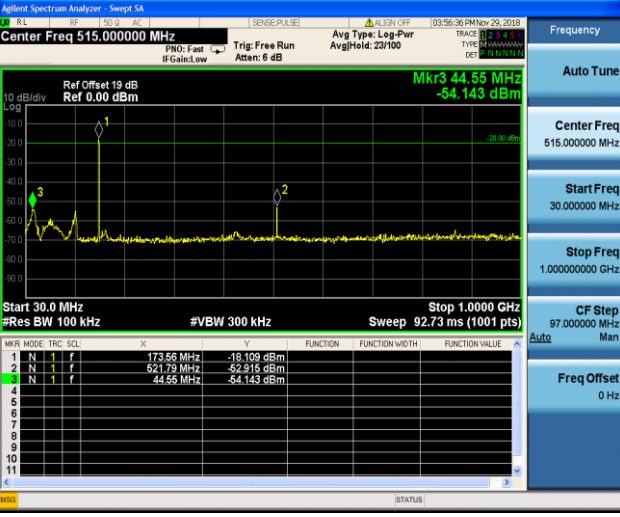
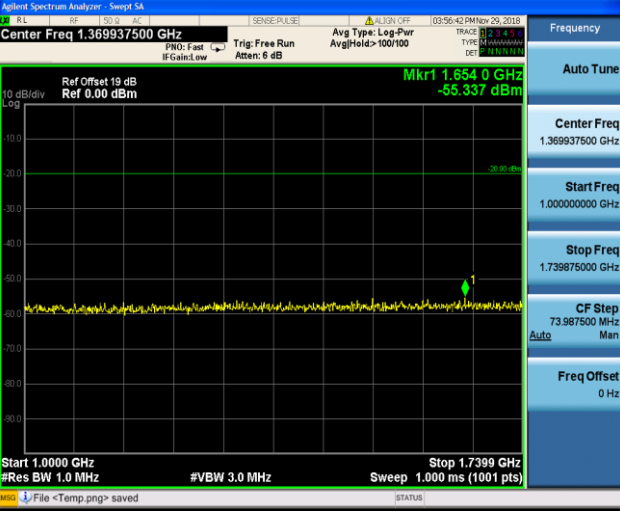
Appendix I:Spurious Emission On Antenna Port For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CHL	 <p style="text-align: center;">30MHz~1GHz</p>
TX-DNH	4FSK	CHL	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-DNH	4FSK	CHM	 <p style="text-align: center;">30MHz~1GHz</p>





Appendix I:Spurious Emission On Antenna Port For VHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>M</sub>	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-DNH	4FSK	CH <sub>H</sub>	 <p style="text-align: center;">30MHz~1GHz</p>
TX-DNH	4FSK	CH <sub>H</sub>	 <p style="text-align: center;">1GHz~10th Harmonic</p>



Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																
TX-DNH	4FSK	CH <sub>L1</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 800.18 MHz -47.966 dBm</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SCAL</th> <th>F</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></td> <td></td> <td>-20.120 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>370.47 MHz</td> <td></td> <td></td> <td>-47.665 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>800.18 MHz</td> <td></td> <td></td> <td>-47.966 dBm</td> </tr> </tbody> </table> <p>Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Stop 1.0000 GHz</p> <p>30MHz~1GHz</p>	MKR	MODE	TRIG	SCAL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	399.57 MHz			-20.120 dBm	2	N	1	f	370.47 MHz			-47.665 dBm	3	N	1	f	800.18 MHz			-47.966 dBm
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TX-DNH	4FSK	CH <sub>L1</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.500062500 GHz Ref Offset 27 dB Ref 0.00 dBm Mkr1 2.533 GHz -45.126 dBm</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SCAL</th> <th>F</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>2.533 GHz</td> <td></td> <td></td> <td>-45.126 dBm</td> </tr> </tbody> </table> <p>Start 1.000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 5.067 ms (1001 pts) Stop 4.000 GHz</p> <p>1GHz~10th Harmonic</p>	MKR	MODE	TRIG	SCAL	F	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.533 GHz			-45.126 dBm																
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TX-DNH	4FSK	CH <sub>M1</sub>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 515.000000 MHz Ref Offset 27 dB Ref 0.00 dBm Mkr3 811.82 MHz -53.210 dBm</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SCAL</th> <th>F</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></td> <td></td> <td>-33.952 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>376.29 MHz</td> <td></td> <td></td> <td>-51.340 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>811.82 MHz</td> <td></td> <td></td> <td>-53.210 dBm</td> </tr> </tbody> </table> <p>Start 30.0 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.73 ms (1001 pts) Stop 1.0000 GHz</p> <p>30MHz~1GHz</p>	MKR	MODE	TRIG	SCAL	F	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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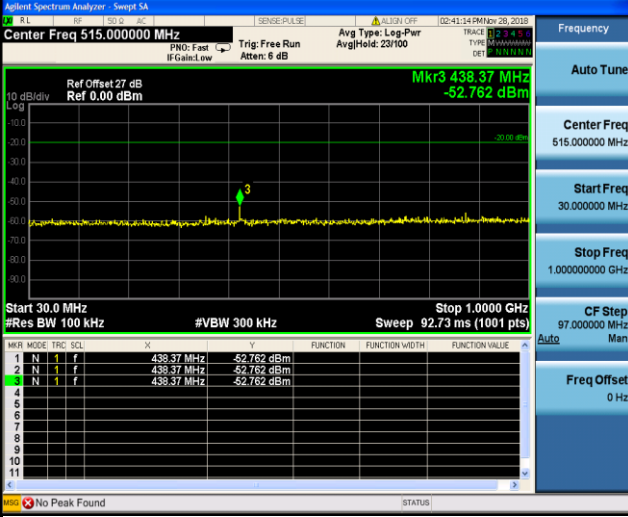
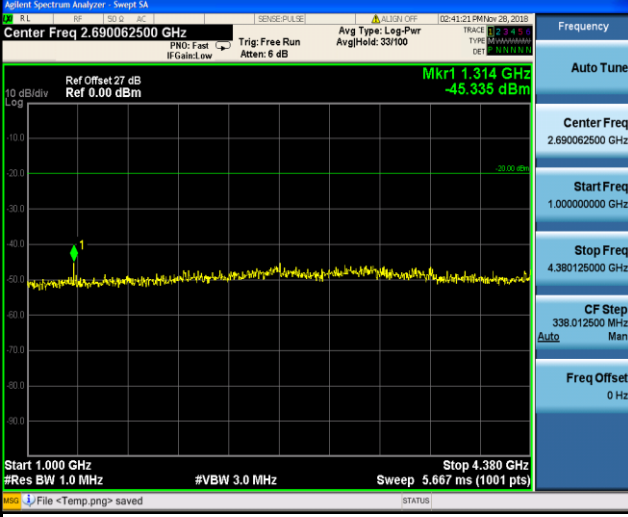



Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT																																				
TX-DNH	4FSK	CH <sub>M1</sub>	<p>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)            Stop 4.060 GHz</p> <p>1GHz~10th Harmonic</p>																																				
TX-DNH	4FSK	CH <sub>M2</sub>	<p>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)            Stop 1.000 GHz</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</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>f</td> <td>f</td> <td>468.38 MHz</td> <td>-28.595 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td>f</td> <td>511.82 MHz</td> <td>-49.422 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td>f</td> <td>376.29 MHz</td> <td>-50.755 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>30MHz~1GHz</p>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f	f	468.38 MHz	-28.595 dBm				2	N	f	f	511.82 MHz	-49.422 dBm				3	N	f	f	376.29 MHz	-50.755 dBm			
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TX-DNH	4FSK	CH <sub>M2</sub>	<p>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)            Stop 4.061 GHz</p> <p>1GHz~10th Harmonic</p>																																				

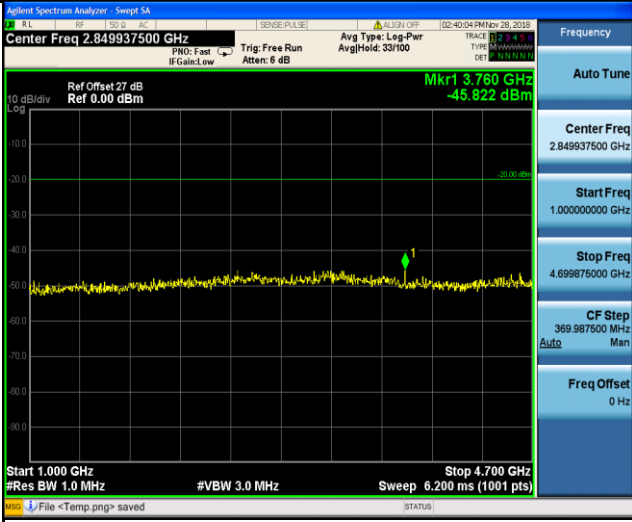


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Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>M3</sub>	 <p style="text-align: center;">30MHz~1GHz</p>
TX-DNH	4FSK	CH <sub>M3</sub>	 <p style="text-align: center;">1GHz~10th Harmonic</p>
TX-DNH	4FSK	CH <sub>H1</sub>	 <p style="text-align: center;">30MHz~1GHz</p>



Appendix I:Spurious Emission On Antenna Port For UHF Band

Operation Mode	Modulation Type	Test Channel	TEST PLOT RESULT
TX-DNH	4FSK	CH <sub>H1</sub>	 <p style="text-align: center;">1GHz~10th Harmonic</p>

----End of Report----