



















Note: All bandwidth and modulation are tested, only the worst result is reported.



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

			Channel Band	width: 1.4 MHz		
			Vol	tage		
Modulation	Channel	Voltage [Vdc]	Temperature ($^{\circ}\mathbb{C}$)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.4	TN	0.001085	± 2.5	PASS
		3.8	TN	0.001037	± 2.5	PASS
		4.35	TN	0.001095	± 2.5	PASS
	МСН	3.4	TN	0.000598	± 2.5	PASS
		3.8	TN	0.000619	± 2.5	PASS
		4.35	TN	0.000637	± 2.5	PASS
		3.4	TN	-0.004038	± 2.5	PASS
	HCH	3.8	TN	-0.004020	± 2.5	PASS
		4.35	TN	-0.004128	± 2.5	PASS
16QAM		3.4	TN	0.000727	± 2.5	PASS
	LCH	3.8	TN	0.000778	± 2.5	PASS
		4.35	TN	0.000752	± 2.5	PASS
	МСН	3.4	TN	0.000628	± 2.5	PASS
		3.8	TN	0.000603	± 2.5	PASS
		4.35	TN	0.000637	± 2.5	PASS
	НСН	3.4	TN	-0.001051	± 2.5	PASS
		3.8	TN	-0.001060	± 2.5	PASS
		4.35	TN	-0.001074	± 2.5	PASS
			Temp	erature		
Modulation	Channe I	Voltage [Vdc]	Temperature $(^{\circ}\!$	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	0	0.000935	± 2.5	PASS
		VN	10	0.000891	± 2.5	PASS
		VN	20	0.000627	± 2.5	PASS
		VN	30	0.001045	± 2.5	PASS
		VN	40	0.000326	± 2.5	PASS
	МСН	VN	0	-0.000119	± 2.5	PASS
		VN	10	-0.000125	± 2.5	PASS
		VN	20	-0.000017	± 2.5	PASS
		VN	30	0.000850	± 2.5	PASS
		VN	40	-0.000140	± 2.5	PASS
	нсн	VN	0	-0.001862	± 2.5	PASS
		VN	10	-0.001837	± 2.5	PASS
		VN	20	-0.003148	± 2.5	PASS
		VN	30	-0.001313	± 2.5	PASS
		VN	40	-0.001892	± 2.5	PASS
400 444	LCH	VN	0	-0.002034	± 2.5	PASS
16QAM		VN	10	-0.001325	± 2.5	PASS



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		VN	20	-0.001321	± 2.5	PASS
		VN	30	-0.000761	± 2.5	PASS
		VN	40	-0.002040	± 2.5	PASS
		VN	0	0.000446	± 2.5	PASS
		VN	10	0.000572	± 2.5	PASS
	MCH	VN	20	0.000471	± 2.5	PASS
		VN	30	0.000512	± 2.5	PASS
		VN	40	0.000149	± 2.5	PASS
		VN	0	-0.001187	± 2.5	PASS
		VN	10	-0.001265	± 2.5	PASS
	HCH	VN	20	-0.001288	± 2.5	PASS
		VN	30	-0.001117	± 2.5	PASS
		VN	40	-0.001215	± 2.5	PASS

Note: All bandwidth and modulation are tested, only the worst result is reported.





Appendix G :Field Strength of Spurious Radiation Measurement

Test Result

Bandwidth:	1.4	M	Test channel:	Lowest	
Modulation:	QPSK		Temperature :	23~24°C	
RB #:	1RB #0		Relative Humidity:	46~48%	
Note:	Spurious emissions within 30-1000MHz line.		were found more than 20dB below limi		
F	Spurious E	Emission		Danult	
Frequency (MHz)	Polarization Level (dBm)		Limit (dBm)	Result	
3421.4	Vertical	-42.02	-13.00		
5132.1	V	-43.51			
(,C))-	V ()	-		PASS	
3421.4	Horizontal	-43.98			
5132.1	Н	-43.11			
-	Н	-			
Bandwidth:	1.4M		Test channel:	Middle	
Modulation:	QPSK		Temperature :	23~24°C	
RB #:	1RB #0		Relative Humidity:	46~48%	
Note:	line.				
Frequency (MHz)	Spurious Emission Polarization Level (dBm)		Limit (dBm)	Result	
3465	Vertical	-42.55		PASS	
5197.5	V	-45.30			
- (.0	V	(6)			
3465	Horizontal	-43.27	-13.00		
5197.5	Н				
0107.0]		
=		-46.85			
Bandwidth:	Н	-46.85 -	Test channel:	Highest	
Bandwidth:	H 1.4	-46.85 - M	Test channel: Temperature :	Highest 23~24°C	
Modulation:	H 1.4I	-46.85 - M GK	Temperature :	23~24°C	
	H 1.4I QPS 1RB	-46.85 - M 6K #0		23~24°C 46~48%	
Modulation: RB #: Note:	H 1.4I QPS 1RB Spurious emissions v	-46.85 - M 6K #0 within 30-1000MHz	Temperature : Relative Humidity: were found more than	23~24°C 46~48% 20dB below limit	
Modulation: RB #:	H 1.4I QPS 1RB Spurious emissions valine.	-46.85 - M 6K #0 within 30-1000MHz	Temperature : Relative Humidity:	23~24°C 46~48%	
Modulation: RB #: Note:	H 1.4I QPS 1RB Spurious emissions valine. Spurious E	-46.85 - M SK #0 within 30-1000MHz	Temperature : Relative Humidity: were found more than	23~24°C 46~48% 20dB below limi	
Modulation: RB #: Note: Frequency (MHz)	H 1.41 QPS 1RB Spurious emissions valine. Spurious E Polarization	-46.85 - M 6K #0 within 30-1000MHz Emission Level (dBm)	Temperature : Relative Humidity: were found more than	23~24°C 46~48% 20dB below limi	
Modulation: RB #: Note: Frequency (MHz) 3508.6	H 1.4I QPS 1RB Spurious emissions valine. Spurious E Polarization Vertical	-46.85 - M SK #0 within 30-1000MHz Emission Level (dBm) -43.75	Temperature : Relative Humidity: were found more than Limit (dBm)	23~24°C 46~48% 20dB below limi Result	
Modulation: RB #: Note: Frequency (MHz) 3508.6	H 1.4I QPS 1RB Spurious emissions value. Spurious E Polarization Vertical V	-46.85 - M SK #0 within 30-1000MHz Emission Level (dBm) -43.75	Temperature : Relative Humidity: were found more than	23~24°C 46~48% 20dB below limit	
Modulation: RB #: Note: Frequency (MHz) 3508.6 5262.9	H 1.4I QPS 1RB Spurious emissions valine. Spurious E Polarization Vertical V V	-46.85 - M 6K #0 within 30-1000MHz Emission Level (dBm) -43.75 -46.88	Temperature : Relative Humidity: were found more than Limit (dBm)	23~24°C 46~48% 20dB below limit Result	

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Bandwidth:	Bandwidth: 1.4M		Test channel:	Lowest	
Modulation:	16QA	M	Temperature :	23~24°C	
RB #:	1RB #	10	Relative Humidity:	46~48%	
Note:	Spurious emissions w line.	ithin 30-1000MH	z were found more than	20dB below limit	
	Spurious Er	nission	Limit (dBm)	Result	
Frequency (MHz)	Polarization Level (dBm)		Lilliit (UBIII)	Result	
3421.4	Vertical	-43.27	(6)	*)	
5132.1	V	-47.75			
-	V	-	12.00	DACC	
3421.4	Horizontal	-44.29	-13.00	PASS	
5132.1	Н	-44.69			
()-	Н	-			
Bandwidth:	1.4M		Test channel:	Middle	
Modulation:	16QAM		Temperature :	23~24°C	
RB #:	1RB #0		Relative Humidity:	46~48%	
Note:	Spurious emissions w	ithin 30-1000MH	z were found more than	20dB below limit	
Frequency (MHz)	Spurious Er	mission	Limit (dBm)	Result	
rrequerity (Minz)	Polarization	Level (dBm)	Lilliit (ubili)		
3465	Vertical	-42.19	(C))	(,6)	
5197.5	V	-45.34			
-	V	-	-13.00	PASS	
3465	Horizontal	-41.85	-15.00	PASS	
5197.5	Н	-44.44			
-	Н				
Bandwidth:	1.4M		Test channel:	Highest	
Modulation:	16QAM		Temperature :	23~24°C	
RB #:	1RB #	10	Relative Humidity:	46~48%	
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limitine.				
- (DALL)	Spurious Emission				
Frequency (MHz)	0 0 1 1 1 1	111331011		Daniela	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3508.6			Limit (dBm)	Result	
	Polarization	Level (dBm)	Limit (dBm)	Result	
3508.6	Polarization Vertical	Level (dBm) -42.62			
3508.6	Polarization Vertical V	Level (dBm) -42.62	-13.00	Result	
3508.6 5262.9	Polarization Vertical V	-42.62 -45.36			

Note: All bandwidth and modulation are tested, only the worst result is reported.