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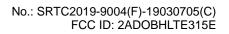


APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output

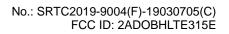
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.25
	699.7	23017		1	5	23.25
	699.7	23017		3	2	22.36
				6	0	22.23
				1	0	23.22
ODCK	707.5	22205		1	5	23.22
QPSK	707.5	23095	1.4	3	2	22.34
				6	0	22.17
				1	0	23.17
	745.0	00470		1	5	23.17
	715.3	23173		3	2	22.31
				6	0	22.16
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	22.32
	600.7	22017		1	5	22.32
	699.7	23017		3	2	21.31
				6	0	21.23
160AM				1	0	22.27
	707.5	22205		1	5	22.27
16QAM	707.5	23095	1.4	3	2	21.24
				6	0	21.16
				1	0	22.26
	745.0	00470		1	5	22.26
	715.3	23173		3	2	21.23
				6	0	21.14
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	22.17
	600.7	22047		1	5	22.17
	699.7	23017		3	2	21.25
				6	0	21.19
				1	0	22.19
64QAM	707 F	22005	4.4	1	5	22.19
	707.5	23095	1.4	3	2	21.27
				6	0	21.16
			-	1	0	22.18
	715.0	22472		1	5	22.18
	715.3	23173		3	2	21.26
				6	0	21.15





						Conducted power
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	(dBm)
				1	0	23.24
	700.5	22225		1	14	23.24
	700.5	23025		8	4	22.35
				15	0	22.22
				1	0	23.21
QPSK	707 F	22005	3	1	14	23.21
QPSN	707.5	23095	3	8	4	22.33
				15	0	22.16
				1	0	23.16
	714.5	23165		1	14	23.16
	7 14.5	23103		8	4	22.30
				15	0	22.15
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power
Modulation	Carrier frequency (MHz)	OL Channel	DVV	KD SIZE	KD Oliset	(dBm)
				1	0	22.30
	700.5	23025		1	14	22.30
	700.5	23025		8	4	21.29
				15	0	21.21
				1	0	22.29
16QAM	707.5	23095	3	1	14	22.29
TOQAM		23095	٥	8	4	21.26
				15	0	21.18
				1	0	22.28
	714.5	23165		1	14	22.28
	714.5	23103		8	4	21.22
				15	0	21.13
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	22.16
	700 F	22025		1	14	22.16
	700.5	23025		8	4	21.24
				15	0	21.15
				1	0	22.15
64QAM	707.5	23095	3	1	14	22.15
04QAIVI	707.5	23093	ا ا	8	4	21.23
				15	0	21.12
				1	0	22.14
	71/15	23165		1	14	22.14
	714.5			8	4	21.22
				15	0	21.11

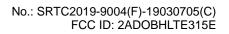
Page number: 159 of 240



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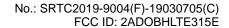
						Canduated names
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	` ,
				1	0 24	23.22 23.22
	701.5	23035				
				12	6	22.33
				25	0	22.20
				1	0	23.19
QPSK	707.5	23095	5	1	24	23.19
				12	6	22.31
				25	0	22.16
				1	0	23.16
	713.5	23155		1	24	23.16
				12	6	22.30
				25	0	22.15
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power
modulation	Gamer medacine, (iiii iz)	02 011d111101				(dBm)
				1	0	22.31
	701.5	23035		1	24	22.29
	701.5	20000		12	6	21.28
			_	25	0	21.20
				1	0	22.28
16QAM	707.5	23095	5	1	24	22.28
IOQAW			5	12	6	21.25
				25	0	21.17
				1	0	22.27
	713.5	23155		1	24	22.27
	713.5	23133		12	6	21.24
				25	0	21.15
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	22.18
				1	24	22.16
	701.5	23035		12	6	21.24
				25	0	21.15
				1	0	22.15
				1	24	22.15
64QAM	707.5	23095	5	12	6	21.23
				25	0	21.12
					0	22.14
				1	24	
	713.5	23155		12		22.16 21.24
	7 10.0			12	6	
	<u> </u>		<u> </u>	25	0	21.13



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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	23.27
	704	00000		1	49	23.27
	704	23060		24	12	22.38
				50	0	22.25
				1	0	23.24
00014	707.5	00005	40	1	49	23.24
QPSK	707.5	23095	10	24	12	22.36
				50	0	22.21
				1	0	23.21
	744	22420		1	49	23.21
	711	23130		24	12	22.35
				50	0	22.20
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	22.36
	704	23060		1	49	22.36
	704	23000		24	12	21.35
				50	0	21.27
				1	0	22.35
16QAM	707.5	23095	10	1	49	22.35
IOQAW	707.5	23095	10	24	12	21.32
				50	0	21.24
				1	0	22.34
	711	23130		1	49	22.34
	, 11	23130		24	12	21.31
				50	0	21.22
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
				1	0	22.25
	704	22060		1	49	22.25
	704	23060		24	12	21.33
				50	0	21.24
				1	0	22.24
64QAM	707.5	00005	40	1	49	22.24
	707.5	23095	10	24	12	21.32
				50	0	21.21
				1	0	22.23
	744	00400		1	49	22.23
	711	23130		24	12	21.31
				50	0	21.20



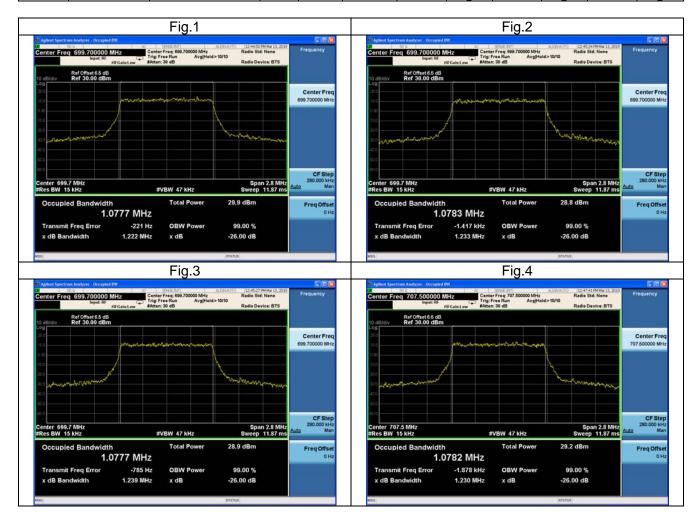


2 Occupied Bandwidth

Test result

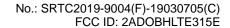
Band	Carrier	Channel(Low)	BW	RB	RB	I	Bandwi	dth of 99%	% Powe	er (MHz)	
Danu	frequency (MHz)	Charmer(Low)	DVV	Size	Offset	QPSK 16-QA		AM	64-QAM		
12	699.7	23017	1.4	6	0	1.0777	1.0777 Fig.1		Fig.2	1.0777	Fig.3
12	707.5	23095	1.4	6	0	1.0782 Fig.4		1.0748	Fig.5	1.0796	Fig.6
12	715.3	23173	1.4	6	0	1.0756 Fig.7		1.0766	Fig.8	1.0771	Fig.9

Band	Carrier	Channel(Low)	BW	RB	RB	Bar	ndwidth	of -26dE (MI		nitter pov	wer
Danu	frequency (MHz)	Channel(Low)	DVV	Size	Offset	QPSK		16-QAM		64-QAM	
12	699.7	23017	1.4	6	0	1.222	Fig.1	1.233	Fig.2	1.239	Fig.3
12	707.5	23095	1.4	6	0	1.230	Fig.4	1.237	Fig.5	1.229	Fig.6
12	715.3	23173	1.4	6	0	1.242 Fig.7		1.226	Fig.8	1.234	Fig.9

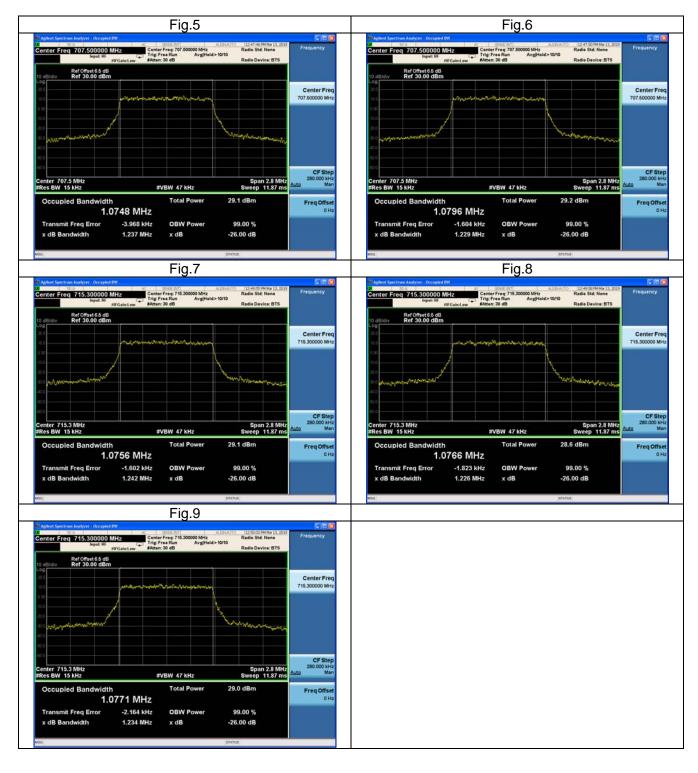


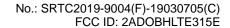
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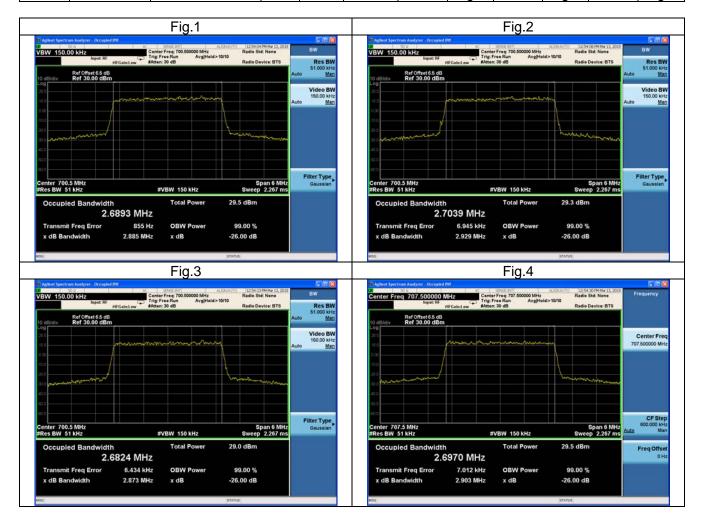






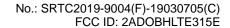
Pand	Carrier Band frequency Channel(L		BW	RB	RB	I	Bandwi	dth of 99%	% Powe	er (MHz)	
Danu	(MHz)	Charmer(Low)	DVV	Size	Offset	QPSK		16-Q	AM	64-QAM	
12	700.5	23025	3	15	0	2.6893	Fig.1	2.7039	Fig.2	2.6824	Fig.3
12	707.5	23095	3	15	0	2.6970	Fig.4	2.7021	Fig.5	2.6981	Fig.6
12	714.5	23165	3	15	0	2.6960	Fig.7	2.6953	Fig.8	2.6868	Fig.9

Dand	Carrier	Channal(Law)	BW	RB	RB	Bar	dwidth	of -26dE (Mł		nitter po	wer
Band	frequency (MHz)	Channel(Low)	DVV	Size	Offset	QPSK		16-QAM		64-QAM	
12	700.5	23025	3	15	0	2.885	Fig.1	2.929	Fig.2	2.873	Fig.3
12	707.5	23095	3	15	0	2.903	Fig.4	2.883	Fig.5	2.889	Fig.6
12	714.5	23165	3	15	0	2.907	Fig.7	2.901	Fig.8	2.909	Fig.9



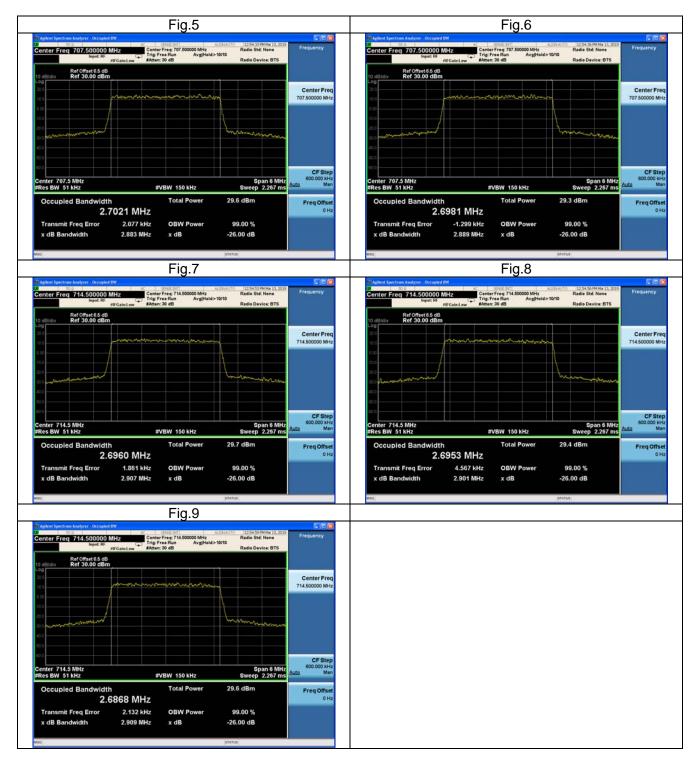
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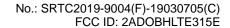
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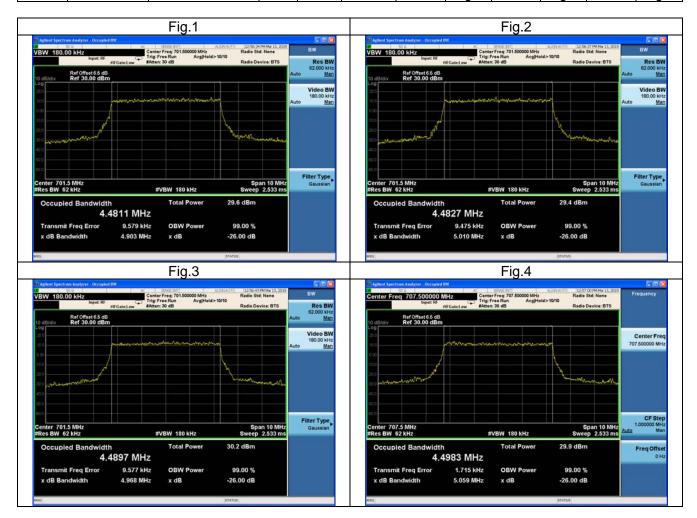




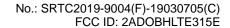


Band	Carrier Channel(Low)			RB	RB	I	Bandwi	dth of 99%	% Powe	er (MHz)	
Dallu	(MHz)	Charmer(Low)	BW	Size	Offset	QPSK		16-Q	AM	64-QAM	
12	701.5	23035	5	25	0	4.4811	Fig.1	4.4827	Fig.2	4.4897	Fig.3
12	707.5	23095	5	25	0	4.4983	Fig.4	4.4981	Fig.5	4.4940	Fig.6
12	713.5	23155	5	25	0	4.4856 Fig.7		4.4696	Fig.8	4.4799	Fig.9

Dond	Carrier	Channal(Law)	BW	RB	RB	Bar	dwidth	of -26dE (Mł		nitter po	wer
Band	frequency (MHz)	Channel(Low)	DVV	Size	Offset	QPSK		16-QAM		64-QAM	
12	701.5	23035	5	25	0	4.903	Fig.1	5.010	Fig.2	4.968	Fig.3
12	707.5	23095	5	25	0	5.059	Fig.4	5.074	Fig.5	5.004	Fig.6
12	713.5	23155	5	25	0	5.045	Fig.7	4.947	Fig.8	4.983	Fig.9



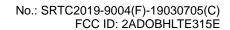
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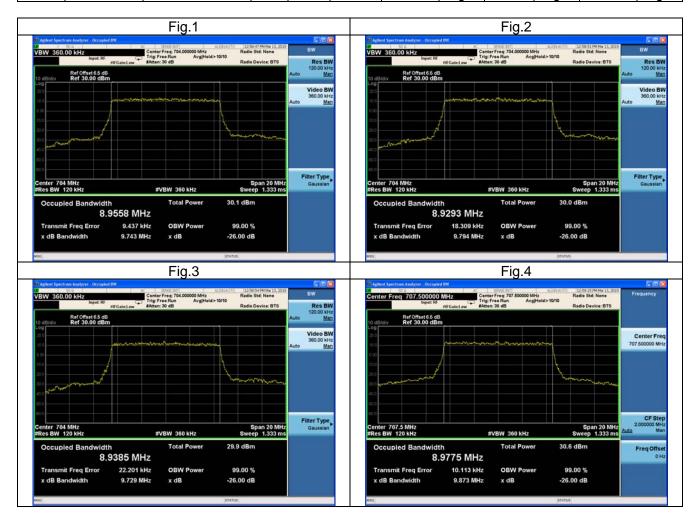




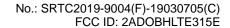


Band	Carrier	Channel(Low)	BW	RB	RB		Bandwi	dth of 99%	% Powe	er (MHz)	
Danu	frequency (MHz)	Charmer(Low)	DVV	Size	Offset	QPSK		16-Q	AM	64-QAM	
12	704	23060	10	50	0	9.9558	9.9558 Fig.1		Fig.2	8.9385	Fig.3
12	707.5	23095	10	50	0	8.9775 Fig.4		8.9696	Fig.5	8.9722	Fig.6
12	711	23130	10	50	0	8.9673 Fig.7		8.9614	Fig.8	8.9542	Fig.9

Dand	Carrier	Channal/Law)	BW	RB	RB	Bandw	idth of -	26dB tra	ansmitte	er power (MHz)
Band	frequency (MHz)	Channel(Low)	DVV	Size	Offset	QPSK		16-QAM		64-QAM	
12	704	23060	10	50	0	9.743	Fig.1	9.794	Fig.2	9.729	Fig.3
12	707.5	23095	10	50	0	9.873	Fig.4	9.915	Fig.5	9.940	Fig.6
12	711	23130	10	50	0	9.808	Fig.7	9.894	Fig.8	9.868	Fig.9

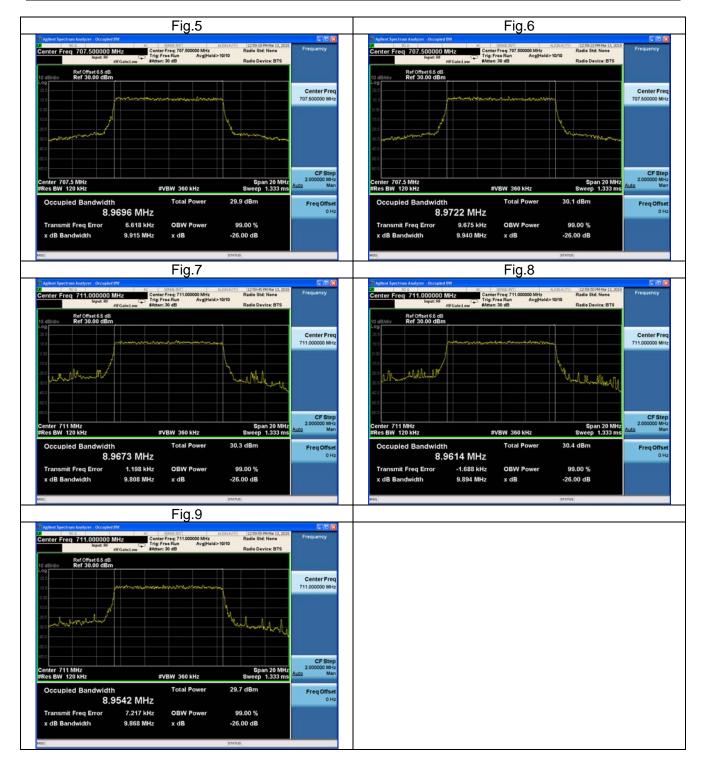


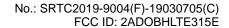
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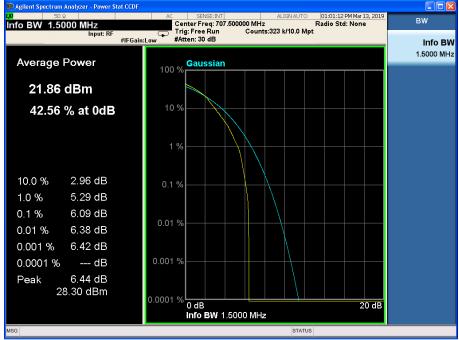


3 Peak-Average Ratio

Test result:

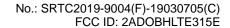


Peak-Average Ratio Plot(1.4MHz BW,QPSK,Band 12-mid Channel)



Peak-Average Ratio Plot(1.4MHz BW,16QAM,Band 12-mid Channel)

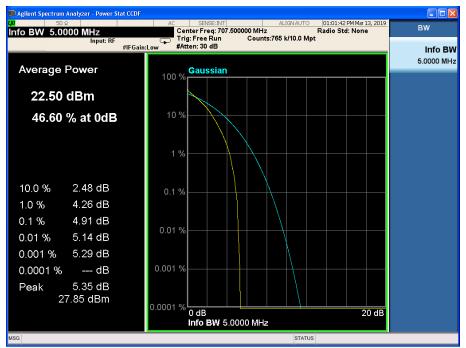
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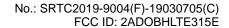


Peak-Average Ratio Plot(1.4MHz BW,64QAM,Band 12-mid Channel)



Peak-Average Ratio Plot(3MHz BW,QPSK,Band 12-mid Channel)

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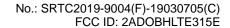




Peak-Average Ratio Plot(3MHz BW,16QAM,Band 12-mid Channel)

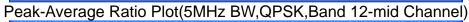


Peak-Average Ratio Plot(3MHz BW,64QAM,Band 12-mid Channel)



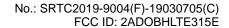








Peak-Average Ratio Plot(5MHz BW,16QAM,Band 12-mid Channel)

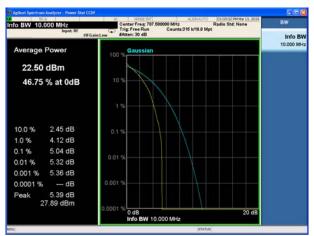


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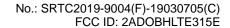




Peak-Average Ratio Plot(5MHz BW,64QAM,Band 12-mid Channel)

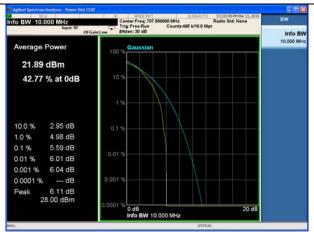


Peak-Average Ratio Plot(10MHz BW,QPSK,Band 12-mid Channel)



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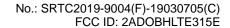




Peak-Average Ratio Plot(10MHz BW,16QAM,Band 12-mid Channel)



Peak-Average Ratio Plot(10MHz BW,64QAM,Band 12-mid Channel)



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4 Spurious Emissions at antenna terminal

Test result

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Conducted Spurious Plot QPSK
12	704	23060	10	1	0	Fig.1

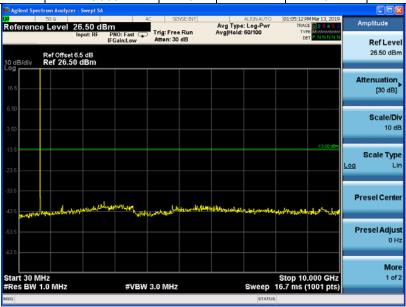


Fig.1

Band	Carrier frequency	Channel(Mid)	BW	RB	RB	Conducted Spurious Plot
2 5.11 5.	(MHz)	()		Size	Offset	QPSK
12	707.5	23095	10	1	0	Fig.1

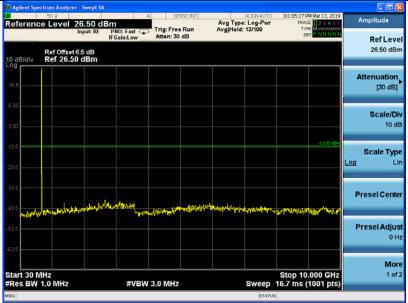
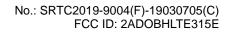


Fig.1



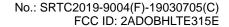
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Band	Carrier	Channel	BW	RB	RB	Conducted S	Spurious Plot	
Danu	frequency (MHz)	' I (HIMN)	BVV	Size	Offset	QPSK	16-QAM	
12	711	23130	10	1	0	Fig.1	Fig.8	



Fig.1



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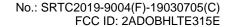
5 Band Edges Compliance

Test result

_		•					
	Band	Carrier frequency	Channel (Low)	BW	RB	RB	Band EdgesPlot
	Danu	(MHz)			Size	Offset	QPSK
Ī	12	699.7	23017	1.4	1	0	Fig.1
	12	099.7	23017	1.4	6	0	Fig.4



Fig.1 ALIGNAUTO
Avg Type: Pwr(RMS)
Avg|Hold:>100/100 Sweep/Control Points 20000 PNO: Far Trig: Free Run IFGain:Low Atten: 30 dB Sweep Time 16.0 ms Man Mkr1 699.000 00 MHz -31.288 dBm Ref Offset 6.5 dB Ref 26.50 dBm Sweep Setup Gate [Off,LO] Points Center 699.000 MHz #Res BW 15 kHz Span 2.800 MHz Sweep 16.0 ms (20000 pts) 20000 #VBW 47 kHz*





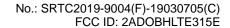
	Band	Carrier frequency	Channel	BW RB	RB	Band EdgesPlot	
	Dariu	(MHz)	(High)	DVV	Size	Offset	QPSK
ĺ	12	715.3	23173	1.4	1	5	Fig.1
	12	/13.3	231/3	1.4	6	0	Fig.4





Fig.4

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Band	Carrier frequency	Channel	D\//	BW RB	RB	Band EdgesPlot	
Dariu	(MHz)	(Low)	D V V	Size	Offset	QPSK	
12	700.5	22025	2	1	0	Fig.1	
12	700.5	23025	3	15	0	Fig.4	



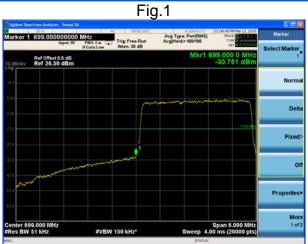
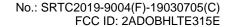


Fig.4

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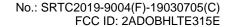


	Band	Carrier frequency	Channel	BW	RM RB RB	Band EdgesPlot	
	Danu	(MHz)	(High)	DVV	Size	Offset	QPSK
ĺ	12	7145	22165	2	1	14	Fig.1
	12	714.5	23165	3	15	0	Fig.4





Fig.4



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	Band	Carrier frequency	Channel	D\//	RW I	RB	Band EdgesPlot	
	Danu	(MHz)	(Low)	D V V	Size	Offset	QPSK	
ĺ	12	701.5	23035	5	1	0	Fig.1	
	12	701.5	23033	3	25	0	Fig.4	

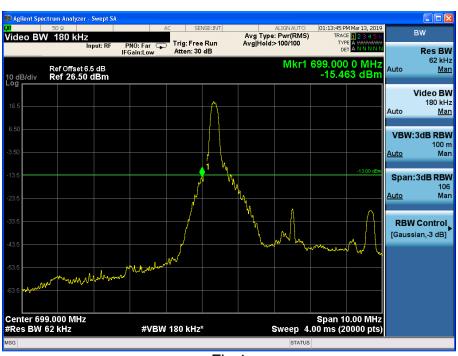
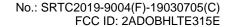




Fig.4





	Band	Carrier frequency	Channel	D\//	RW/	RB	Band EdgesPlot	
	Danu	(MHz)	(High)	D V V	Size	Offset	QPSK	
ĺ	12	712.5	22155	5	1	24	Fig.1	
	12	713.5	23155	3	25	0	Fig.4	

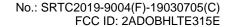




Fig.4

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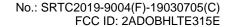


	Band	Carrier frequency	Channel	BW	RW RB RB	Band EdgesPlot	
	Dariu	(MHz)	(Low)	DVV	Size	Offset	QPSK
ĺ	12	704	22060	10	1	0	Fig.1
	12	704	23060	10	50	0	Fig.4





Fig.4



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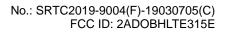


Band	Carrier frequency	Channel	BW	w RB RB	Band EdgesPlot	
Danu	(MHz)	(High)	DVV	Size	Offset	QPSK
12	711	23130	10	1	49	Fig.1
12	711	23130	10	50	0	Fig.4





Fig.4



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6 Frequency Stability

Test result: Test result:

Tomporoturo(°C)	Voltage	Test F	Result (ppm) B	and12 Low Ch	annel
Temperature(°C)	Voltage	1.4M	3M	5M	10M
-10	NV	0.098	0.005	0.014	0.106
0	NV	0.072	0.065	0.058	0.090
+10	NV	0.053	0.079	0.148	0.014
+20	NV	0.059	0.012	0.122	0.034
+30	NV	0.103	0.061	0.060	0.095
+40	NV	0.080	0.087	0.022	0.020
+50	NV	0.080	0.025	0.072	0.090
+55	NV	0.098	0.045	0.032	0.047
+20	LV	0.131	0.029	0.008	0.035
+20	HV	0.007	0.079	0.087	0.103

Temperature(°C)	Voltage	Test Result (ppm) Band12 High Channel			
		1.4M	3M	5M	10M
-10	NV	0.142	0.040	0.120	0.053
0	NV	0.123	0.096	0.143	0.118
+10	NV	0.005	0.019	0.124	0.091
+20	NV	0.010	0.021	0.148	0.095
+30	NV	0.093	0.019	0.051	0.081
+40	NV	0.068	0.050	0.135	0.092
+50	NV	0.093	0.066	0.035	0.155
+55	NV	0.071	0.018	0.072	0.058
+20	LV	0.114	0.113	0.146	0.108
+20	HV	0.105	0.103	0.076	0.040