

3.6 Transmitter Radiated Unwanted Emissions

3.6.1 Transmitter Radiated Unwanted Emissions Limit

Restricted Band	Emissions Limit	
Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
2400/F(kHz)	48.5 - 13.8	300
24000/F(kHz)	33.8 - 23	30
30	29	30
100	40	3
150	43.5	3
200	46	3
500	54	3
	Field Strength (uV/m) 2400/F(kHz) 24000/F(kHz) 30 100 150 200	2400/F(kHz) 48.5 - 13.8 24000/F(kHz) 33.8 - 23 30 29 100 40 150 43.5 200 46

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted Ban	d Emissions Limit
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
	n the peak conducted output power measured within band shall be attenuated by at least 20 dB relative to vel.

demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

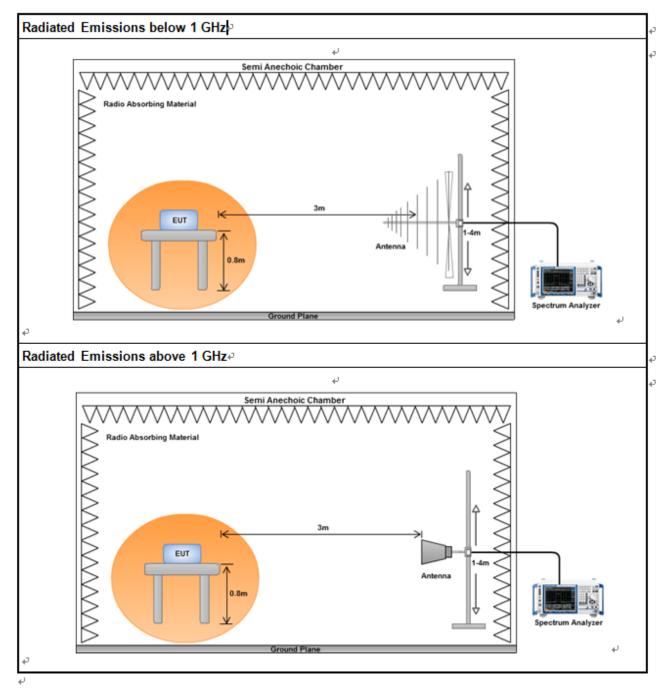


3.6.3 Test Procedures

		Test Method
\boxtimes	perfe equi extra dista	surements may be performed at a distance other than the limit distance provided they are not ormed in the near field and the emissions to be measured can be detected by the measurement pment. When performing measurements at a distance other than that specified, the results shall be apolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear ance for field-strength measurements, inverse of linear distance-squared for power-density isurements).
\boxtimes	For	the transmitter unwanted emissions shall be measured using following options below:
	\boxtimes	Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
	\boxtimes	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
		☐ Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle ≥98%)
		Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
		Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW≥1/T).
		□ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW \geq 1/T, where T is pulse time
		Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
		Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
		Refer as FCC KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.
\boxtimes	For	radiated measurement, refer as FCC KDB 558074, clause 12.2.7.
	\boxtimes	Refer as ANSI C63.10, clause 6.4 for radiated emissions from below 30 MHz.
	\square	Refer as ANSI C63.10, clause 6.5 for radiated emissions from 30 MHz to 1000 MHz.
	\boxtimes	Refer as ANSI C63.10, clause 6.6 for radiated emissions from above 1 GHz.
	For	conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 10.2.2.
		For conducted unwanted emissions into non-restricted bands (relative emission limits). Devices with multiple transmit chains: Refer as FCC KDB 662911, when testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding 10 log(N) if the measurements are made relative to the in-band emissions on the individual outputs.
		For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB



3.6.4 Test Setup

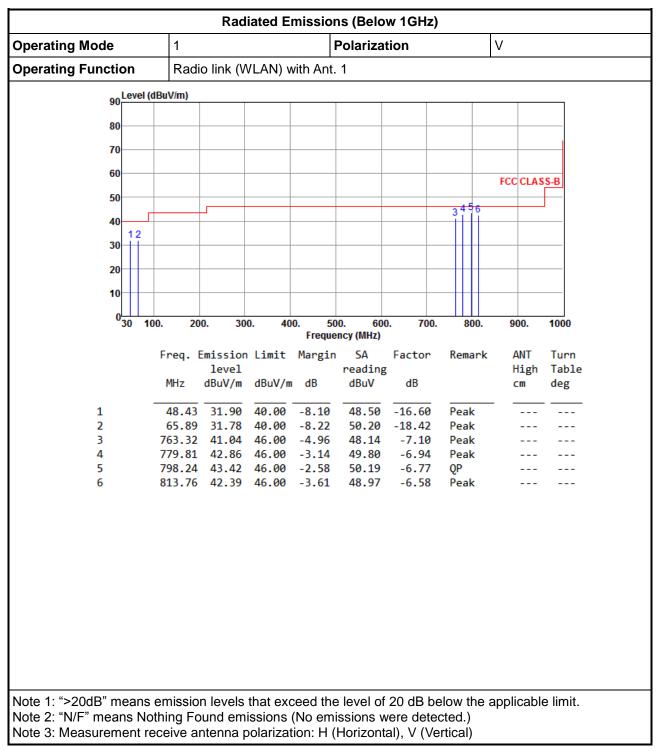


3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

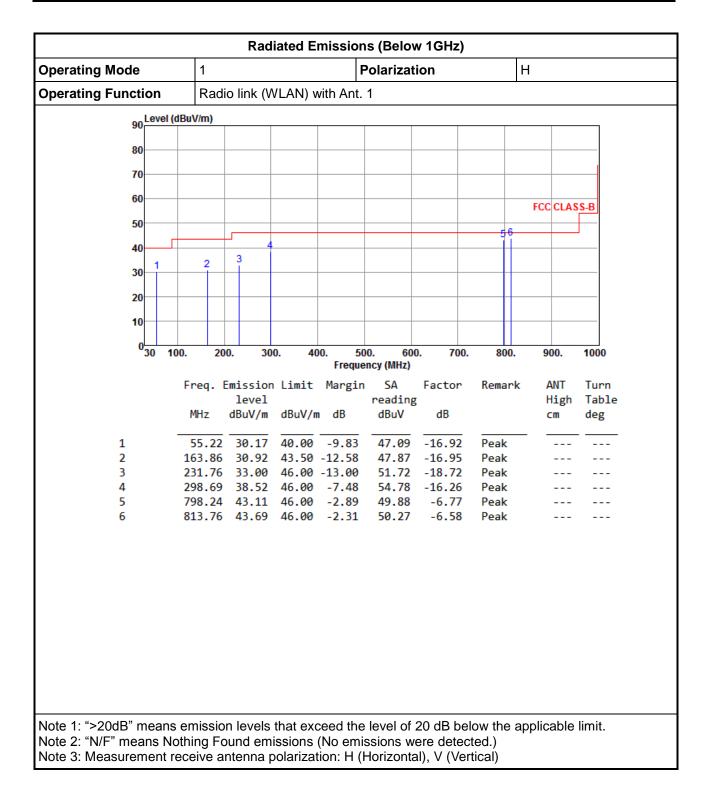
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.



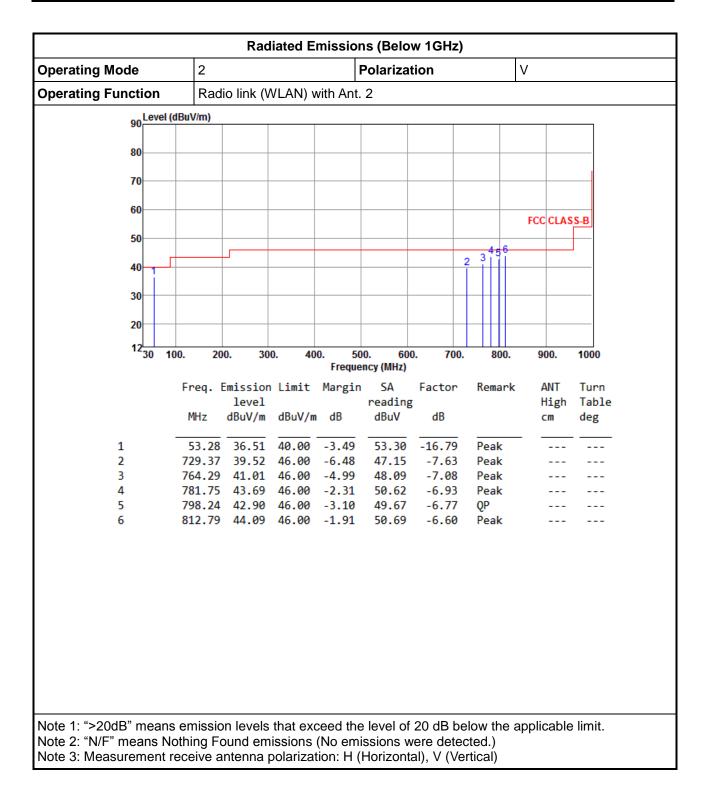
3.6.6 Radiated Emissions (Below 1GHz)



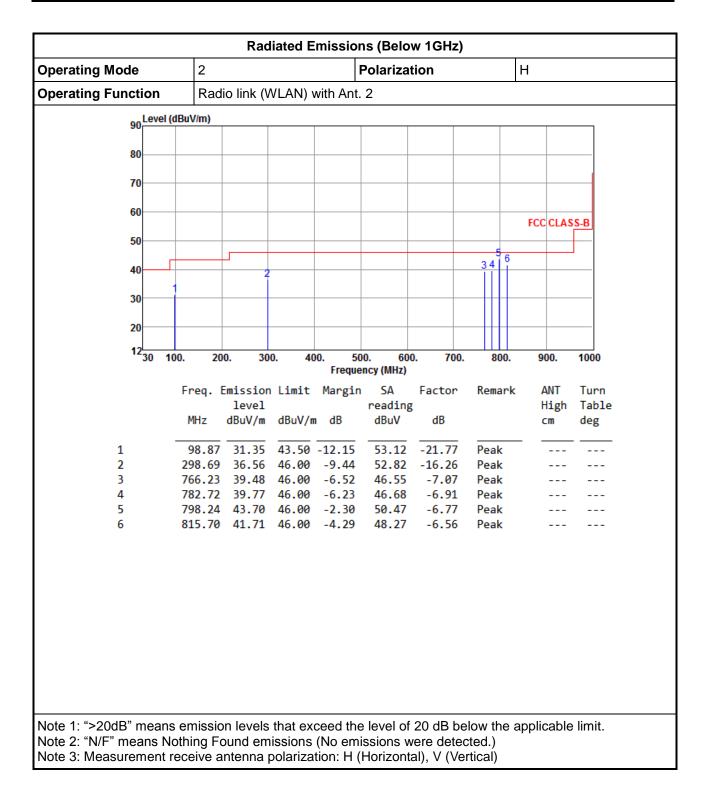






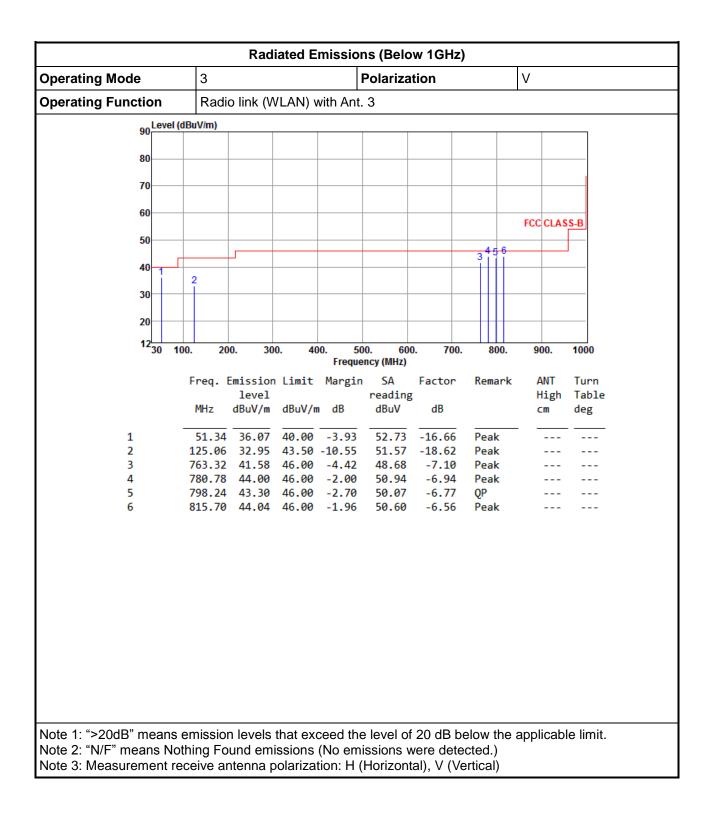




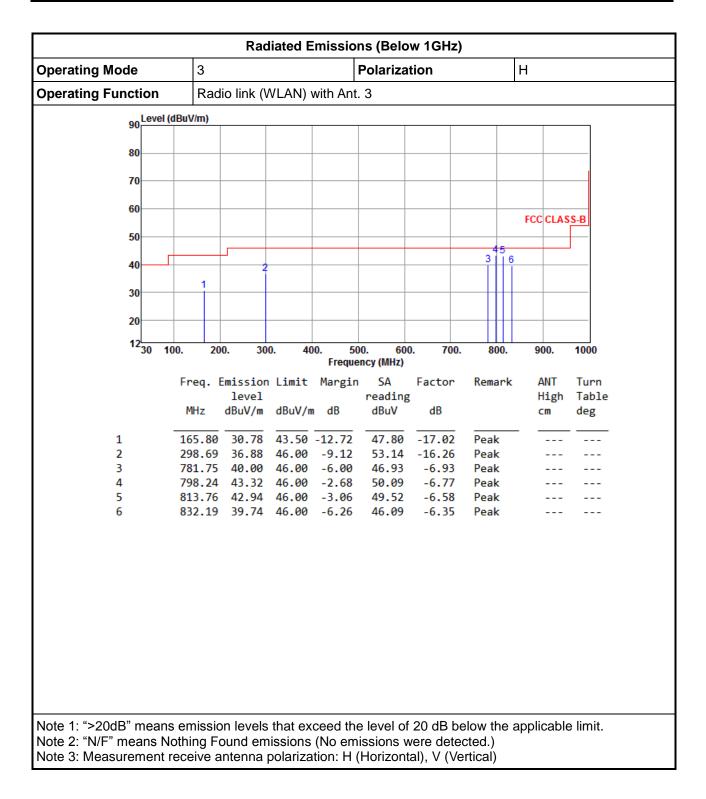




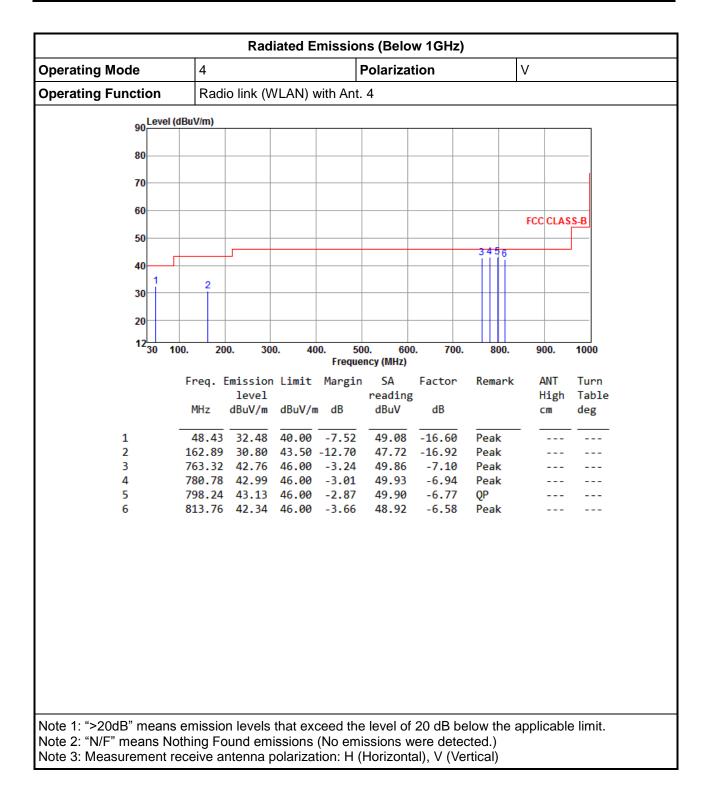




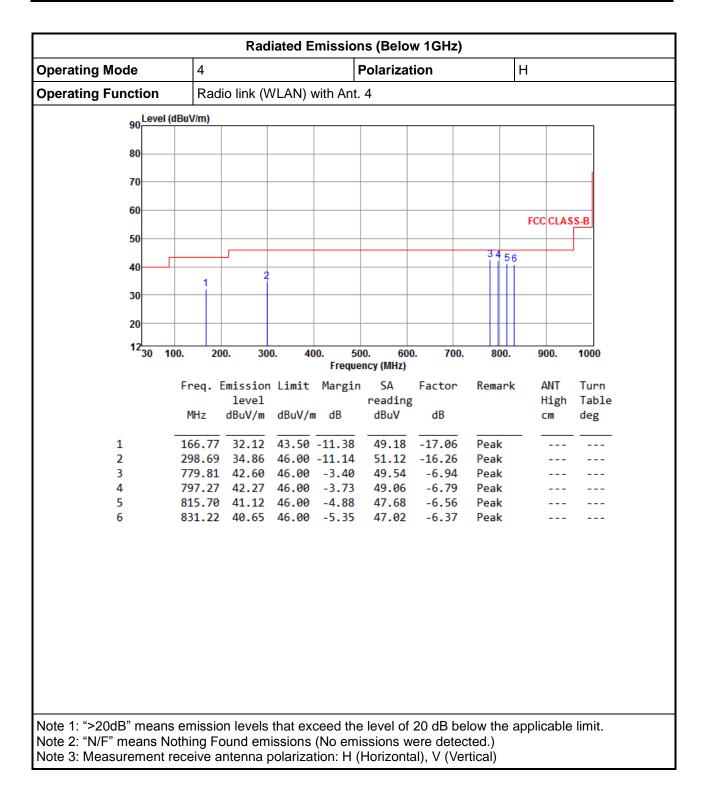




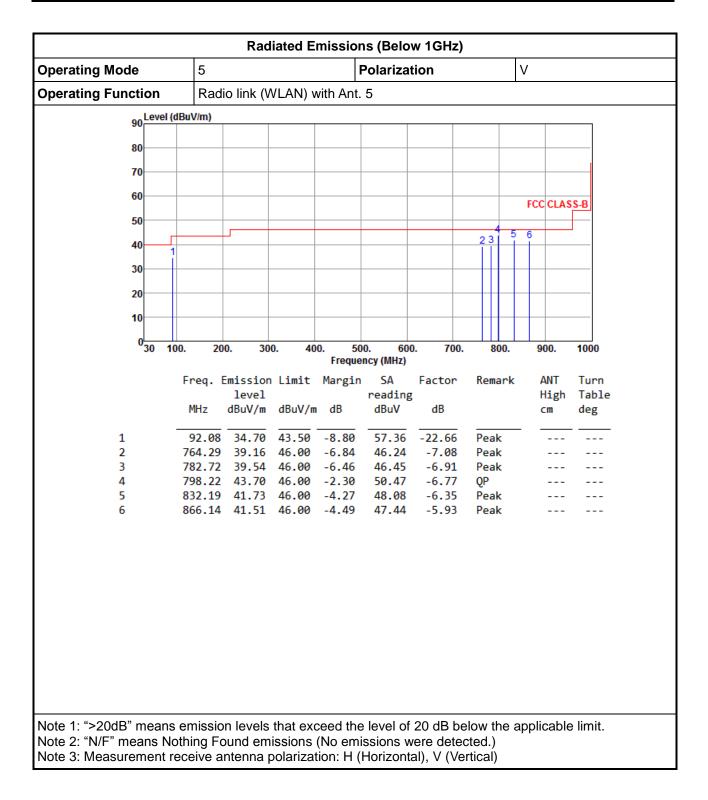




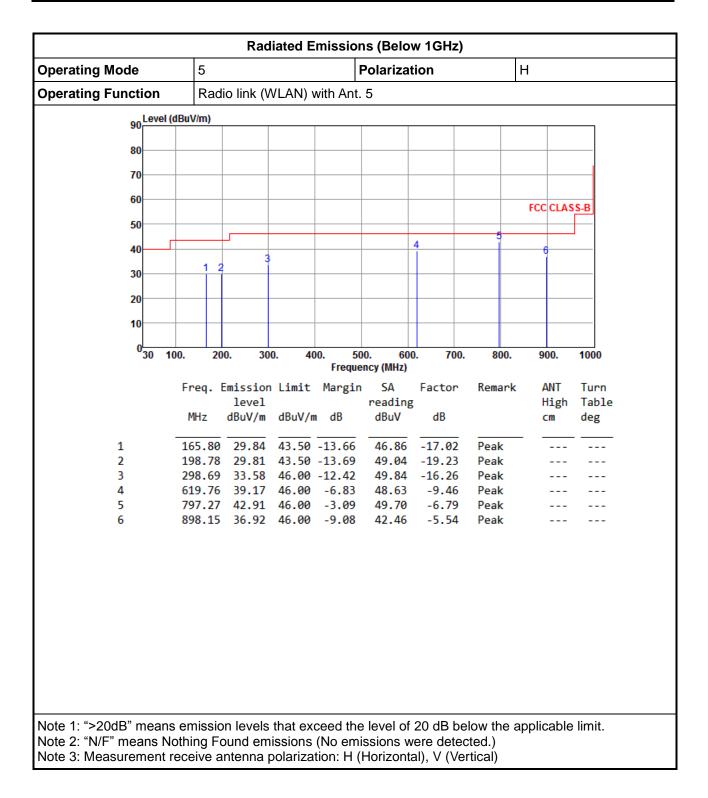












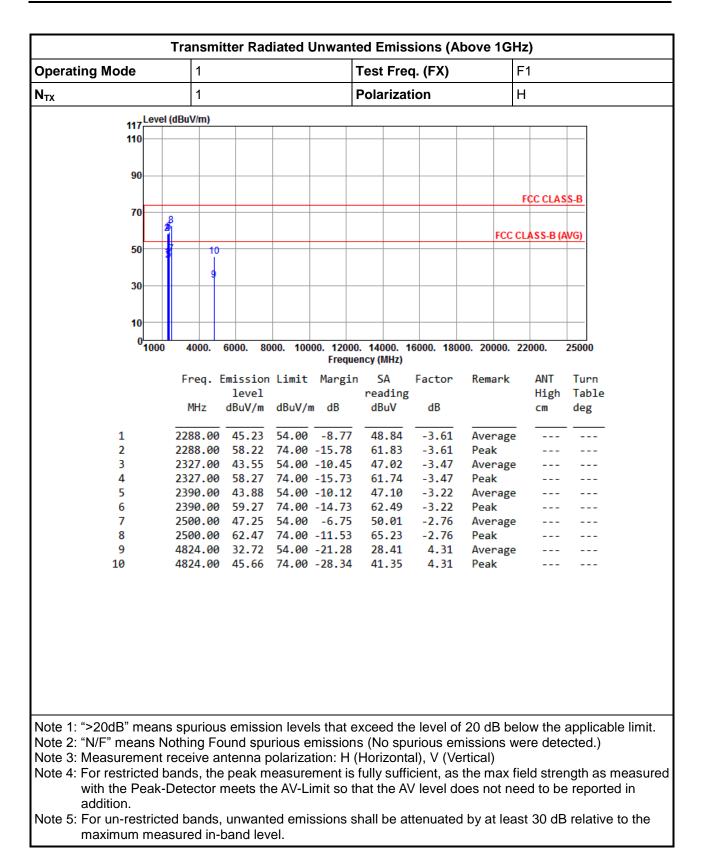


Operating Mode	1			•	Test Fre	eq. (FX)		F	1		
N _{TX}	1			1	Polariza	tion		V	/		
Lev	el (dBuV/m)										
117											
110											
90											
									FCC CLAS	S-B	
70	8										
	4										
50	10							FCC CI	LASS-B (A	WG)	
50											
30											
10										<u> </u>	
0 <mark>0</mark> 100	0 4000.	6000. 80	00. 100		. 14000. ncy (MHz)	16000. 180	000. 200	00. 2	2000.	25000	
	[no.		1.4			Factor	Dom		ANT	Tunn	
	Freq.	Emission level	Limit	margin	reading	Factor	Rema	irk	ANT High	Turn Table	
	MHz	dBuV/m	dBuV/	m dB	dBuV	s dB			cm	deg	
	1112	abav/m	ubuv/i		abav	ub			Cill	uce	
1	2288.00	46.15	54.00	-7.85	49.76	-3.61	Aver	age			
2	2288.00		74.00	-14.53	63.08	-3.61	Peal	-			
3	2327.00	48.95	54.00	-5.05	52.42	-3.47	Aver	age			
4	2327.00			-13.08	64.39						
5	2390.00			-5.38	51.84			rage			
6	2390.00			-12.72	64.50		Peal				
7 8	2500.00				55.30			age			
9	2500.00 4824.00			-8.13 -15.13	68.63 34.56		Peal	age			
10		48.26			43.95		Peal	-			
10	4024.00	40.20	/4.00	23.74	45.55	4.51	i cui	•			
NI / / /											
Note 1: ">20dB" mea											le lin
Note 2: "N/F" means									ere dete	ected.)	
Note 3: Measuremen											
Note 4: For restricted											
with the Peak	-Detector	meets th	e AV-L	imit so th	hat the A	V level c	loes no	ot nee	ed to be	e reporte	d in
addition.											
Note 5: For un-restric				ssions s	hall be a	attenuate	d by a	t leas	t 30 dE	s relative	to th
maximum me	easured in-	band lev	el.								

3.6.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b_ANT 1

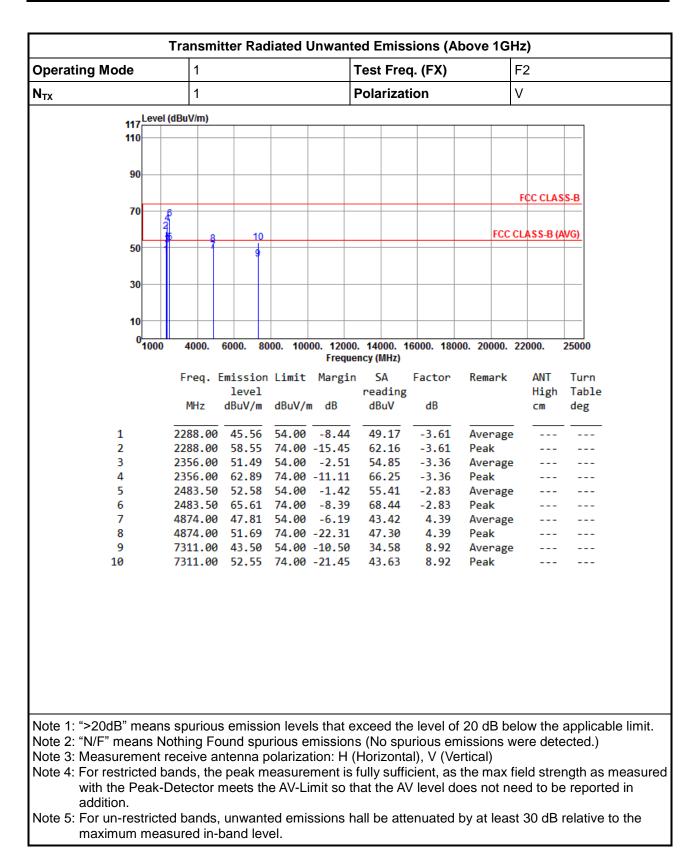






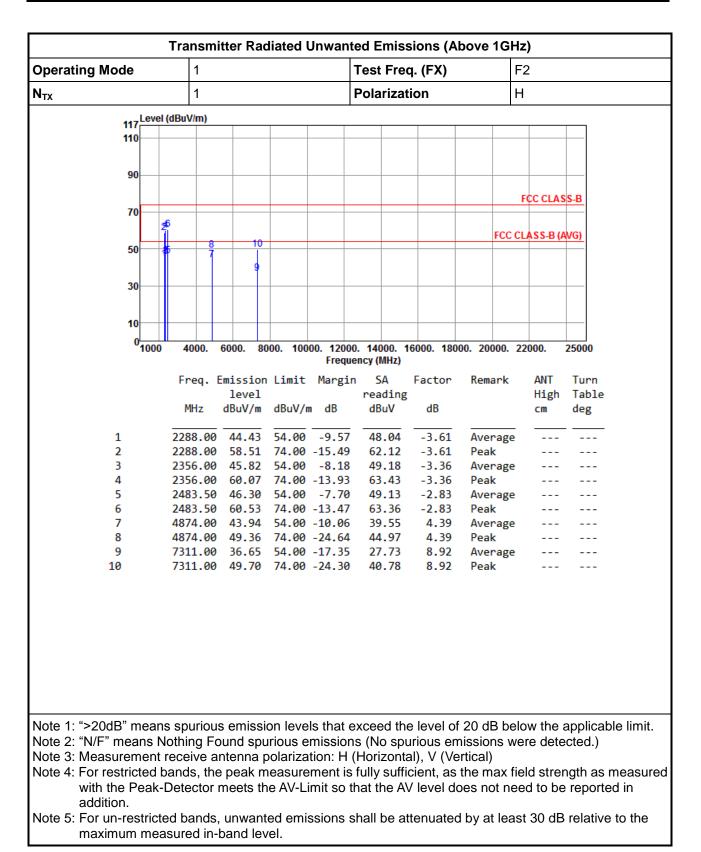






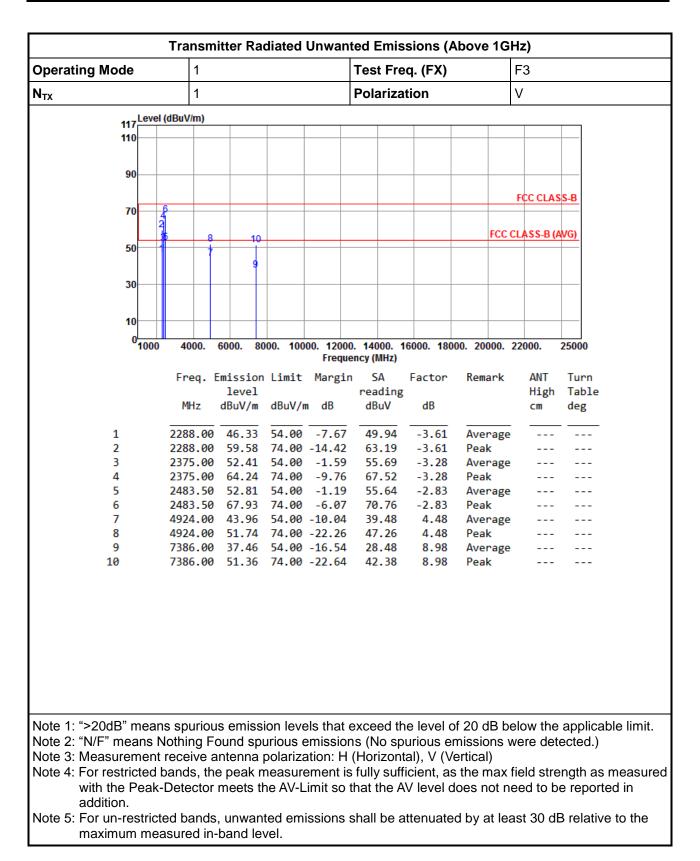






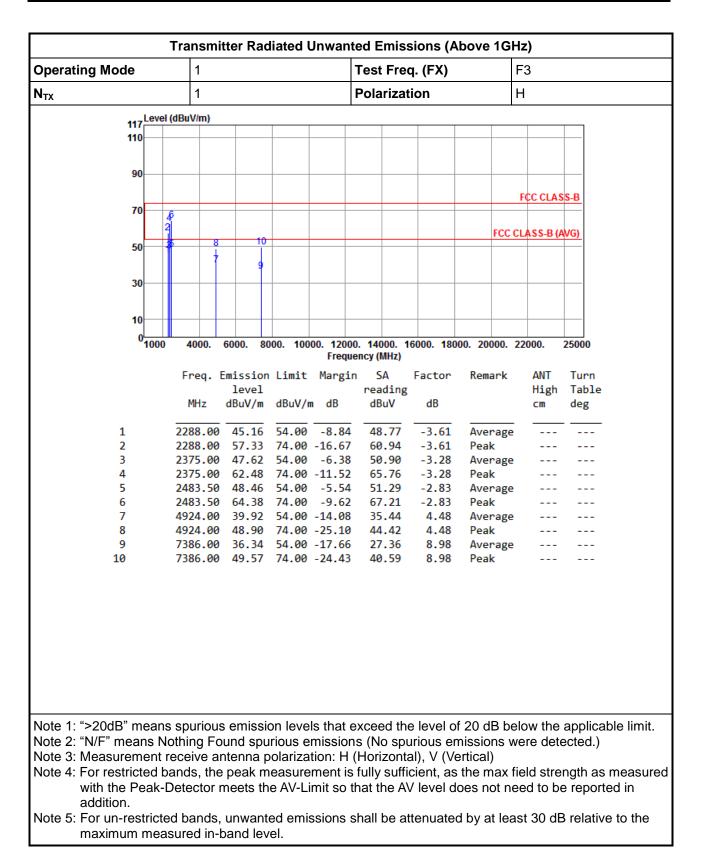












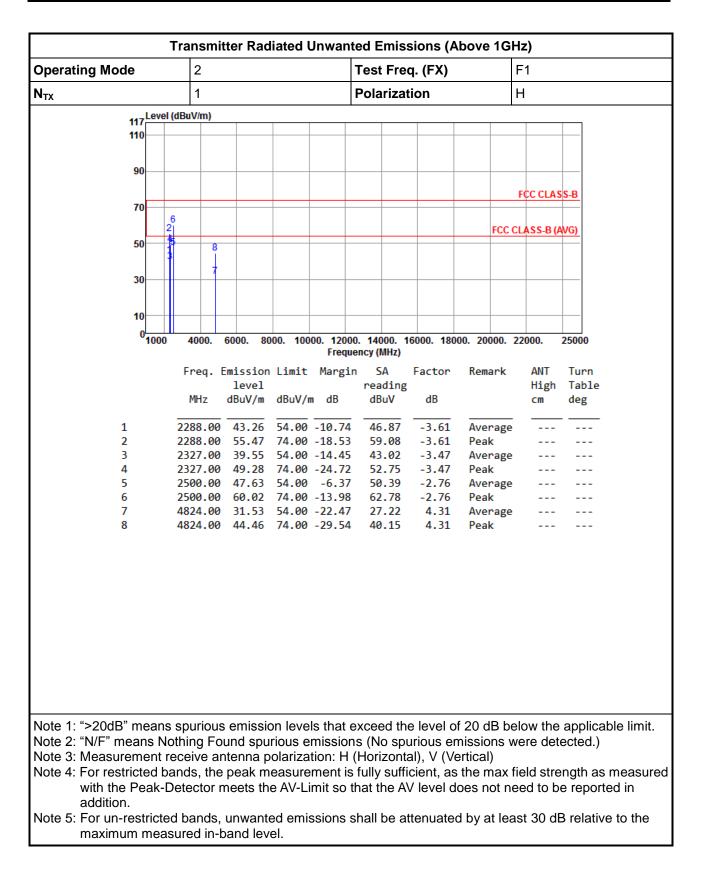


	Transmi	tter Rad	iated I	Unwante	ed Emis	sions (A	bove 1G	Hz)	
Operating Mode	2			٦	Fest Fre	q. (FX)		F1	
N _{TX}	1			F	Polariza	tion		V	
Level	(dBuV/m)								
117									
90									
70								FCC CLAS	S-B
	6 2 45								
50							FCC	CLASS-B (A	AVG)
50	8								
20	7								
30									
10									
0 1000	4000.	6000. 80	00. 100			6000. 180	00. 20000.	22000.	25000
					ncy (MHz)				
	Freq.	Emission	Limit	Margin		Factor	Remark	ANT	Turn
	MHz	level dBuV/m	dD.M.	- dP	reading dBuV	dB		High	Table
	PIEZ	ubuv/m	ubuv/i	II UD	ubuv	ub		CM	deg
1	2288.00	45.14	54.00	-8.86	48.75	-3.61	Average		
2	2288.00			-16.12	61.49	-3.61	Peak		
3	2327.00			-10.91	46.56	-3.47	Average		
4 5	2327.00 2500.00			-20.75 -1.05	56.72 55.71	-3.47 -2.76	Peak Average		
6	2500.00			-9.45	67.31	-2.76	Peak		
7	4824.00			-21.36	28.33	4.31	Average		
8	4824.00	44.67	74.00	-29.33	40.36	4.31	Peak		
lote 1: ">20dB" means	•								
lote 2: "N/F" means N lote 3: Measurement i								vere det	ected.)
lote 4: For restricted b								field stre	ength as measure
with the Peak-I									
addition.									
lote 5: For un-restricte	ed bands,	unwante	ed emi	ssions sl	hall be a	ttenuate	d by at lea	ast 30 dl	B relative to the
maximum mea							-		

3.6.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b_ANT 2











\	Operating Mode				1	Test Fre	q. (FX)		F2	
N _{TX}		1			F	Polarizat	tion		V	
	Level (dE	Ru\//m)								
110										
90										
									FCC CLAS	S-B
70										
	2							FCC		
50		10	12					FCC	CLASS-B (A	WG)
50		9	11							
			- 'ľ							
30										<u> </u>
10			_							+
0	1000	4000.	6000. 80	00. 100	00 42000	44000 4	6000 400	00. 20000.	22000	25000
	1000	4000.	0000. 80	. 100		. 14000. 1 ncy (MHz)	0000. 160	00. 20000.	22000.	25000
		Frea.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
			level		0	reading			High	Table
		MHz	dBuV/m	dBuV/r	n dB	dBuV	dB		cm	deg
	_									
1		288.00		54.00		50.65	-3.61	Average		
2		288.00			-13.94	63.67	-3.61	Peak		
5		350.00 350.00	50.18	54.00	-3.82 -10.91	53.55 66.46	-3.37 -3.37	Average Peak		
5		390.00	49.09	54.00		52.31	-3.22	Average		
6		390.00			-10.59	66.63	-3.22	Peak		
7	2	483.50	51.38	54.00	-2.62	54.21	-2.83	Average		
8	2	483.50	65.39	74.00	-8.61	68.22	-2.83	Peak		
9		874.00			-12.83	36.78	4.39	Average		
10			47.69			43.30	4.39	Peak		
11		311.00			-15.96	29.12	8.92 8.92	Average		
12		511.00	50.50	74.00	-23.50	41.58	0.92	Peak		

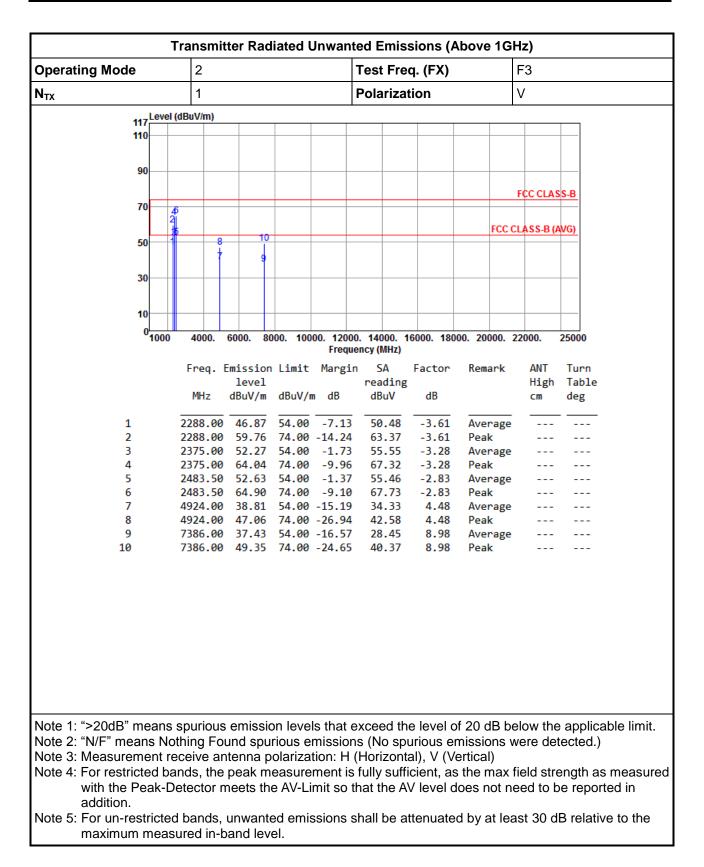


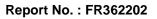


Operating Mode	2			٦	est Fre	q. (FX)		F2	
N _{TX}	1			F	Polariza	tion		Н	
Lev	el (dBuV/m)								
117									
90—									
								FCC CLAS	S-B
70									
	28						FCC	CLASS-B (A	NG)
50	10	12							
	9	11							
30									
50									
10									
0 ^L 100	0 4000.	6000. 80	00. 100	00. 12000.	14000. 1	6000. 180	00. 20000.	22000.	25000
					ncy (MHz)				
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/ı	m dB	dBuV	dB		cm	deg
1	2288.00		54.00		48.31	-3.61	Average		
2	2288.00 2350.00		74.00 54.00	-15.55 -8.44	62.06 48.93	-3.61 -3.37	Peak Average		
4	2350.00			-0.44	62.84	-3.37	Peak		
5	2390.00		54.00		48.47	-3.22	Average		
6	2390.00			-15.07	62.15	-3.22	Peak		
7	2483.50	45.47	54.00	-8.53	48.30	-2.83	Average		
8	2483.50	59.73	74.00	-14.27	62.56	-2.83	Peak		
9	4874.00			-17.90	31.71	4.39	Average		
10	4874.00			-27.93	41.68	4.39	Peak		
11	7311.00			-16.64	28.44	8.92	Average		
12	7311.00	49.95	74.00	-24.05	41.03	8.92	Peak		
Note 1: ">20dB" mear Note 2: "N/F" means Mote 3: Measurement Note 4: For restricted with the Peak addition.	Nothing Fo receive a bands, the	ound spu ntenna p e peak m	rious e olariza easure	missions tion: H (l ment is f	s (No sp Horizont fully suff	urious er al), V (Ve icient, as	nissions v ertical) s the max	vere det field stre	ected.)

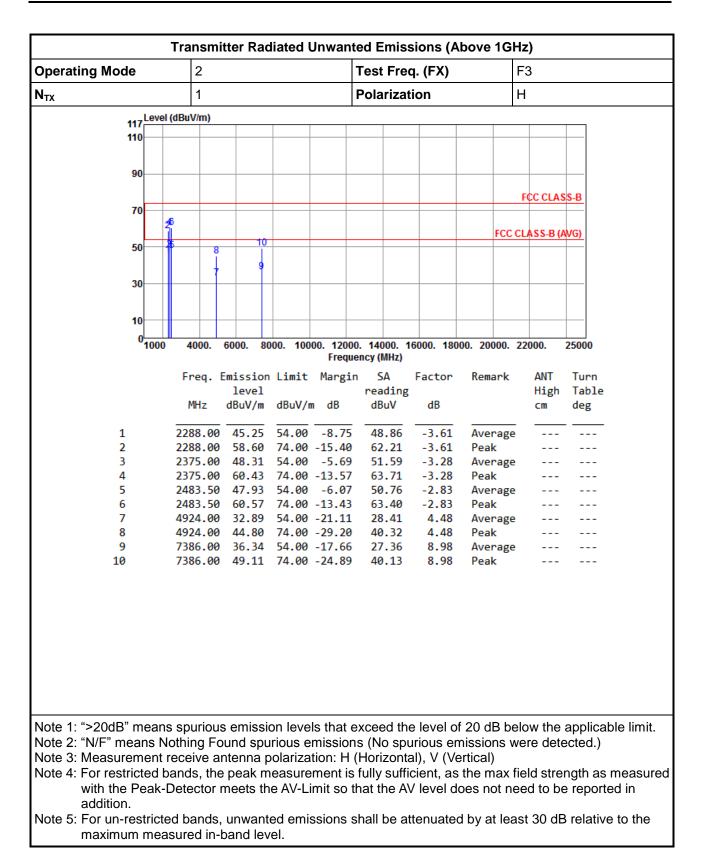












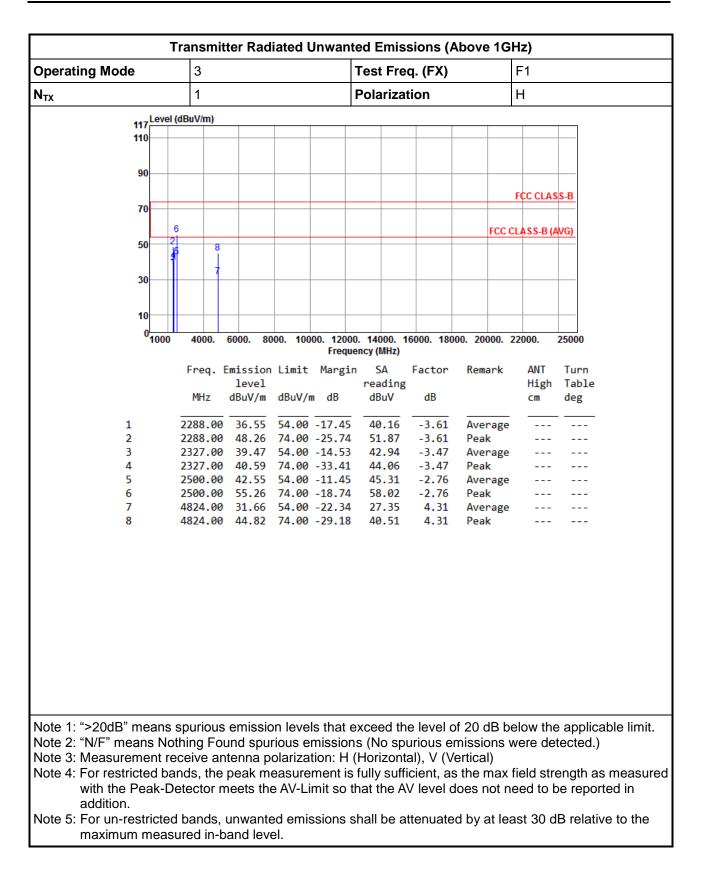


Operating I	Mode		3				Toot	Eroo	I. (FX)			1		
	vioae								,					
N _{TX}			1				Pola	izati	ion		V			
	117	evel (dE	BuV/m)											
	110													
	90													
	90													
											F	CC CLAS	S-B	
	70-	L.												
		Ĩ									FCC CL	ASS-B (A	NG)	
	50	1	- 2											
			Ĭ											
	20		1											
	30-													
	10													
	0 <mark></mark>	000	4000.	6000. 80	00. 100	00 1200	0 140	0 16	5000. 180	00 200	00 22	2000	25000	
			4000.				ency (M			200			20000	
			Freq.	Emission	imi+	Margi	n S/		Factor	Rema	ark	ANT	Turn	
			ii eq.	level	LIMIC	1101 61	read		1 de coi	recine		High	Table	
			MHz	dBuV/m	dBuV/ı	m dB	dBu		dB			cm	deg	
		_												
	1	2	288.00	50.24	54.00	-3.76	53.	85	-3.61	Aver	rage			
	2		288.00			-13.67			-3.61	Peal				
	3		327.00			-2.98			-3.47		rage			
	4		327.00						-3.47	Peak				
	5 6		500.00		54.00				-2.76 -2.76	Aver Peal	age			
	7		824.00	65.00 31.53		-22.47			4.31		rage			
	8			44.69					4.31	Peak	-			
	0	-	024.00	44.05	74.00	-20.01	40.	50	4.51	i car				
Note 1: ">20	dB" mor	anelo	nuriou	e omiecir	n leve	le that	22000	d the		4 20 4	R hol	ow the	annlier	ahla limit
Note 1: 22														
													ecieu.)	
Note 3: Mea												d otro	nath ca	
Note 4: For														
		IK-Dei	lector	meets th	e AV-L	Init so	inat th	e AV	ievel d	ives n	ot nee		e repor	tea in
	ition.						. h 11 '	44		-1 I-	414 -	+ 00 15	.	
Note 5: For						ssions	shall b	e at	tenuate	d by a	t leas	t 30 dE	3 relativ	e to the
max	umum m	easu	red in-	band lev	el.									

3.6.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b_ANT 3

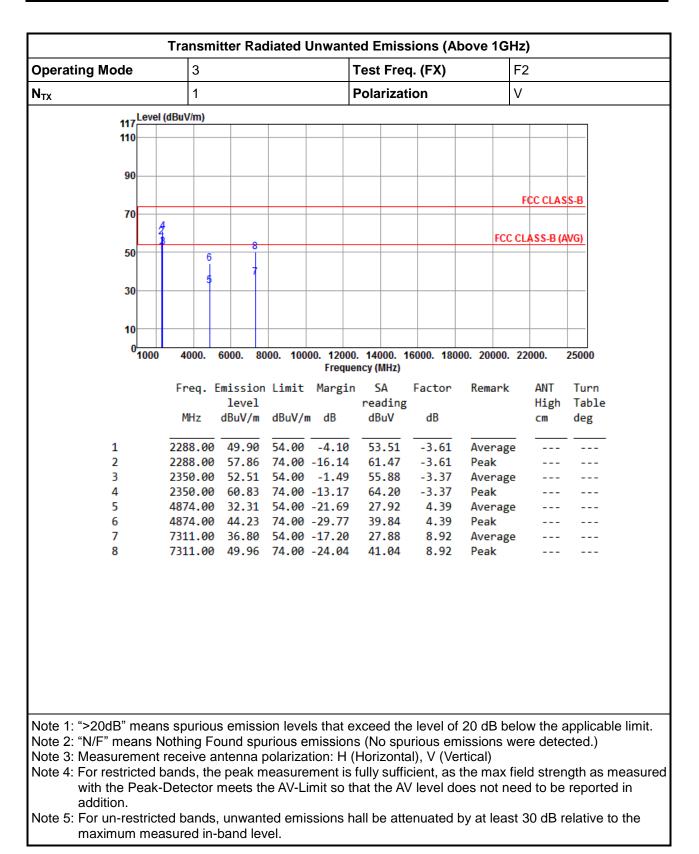






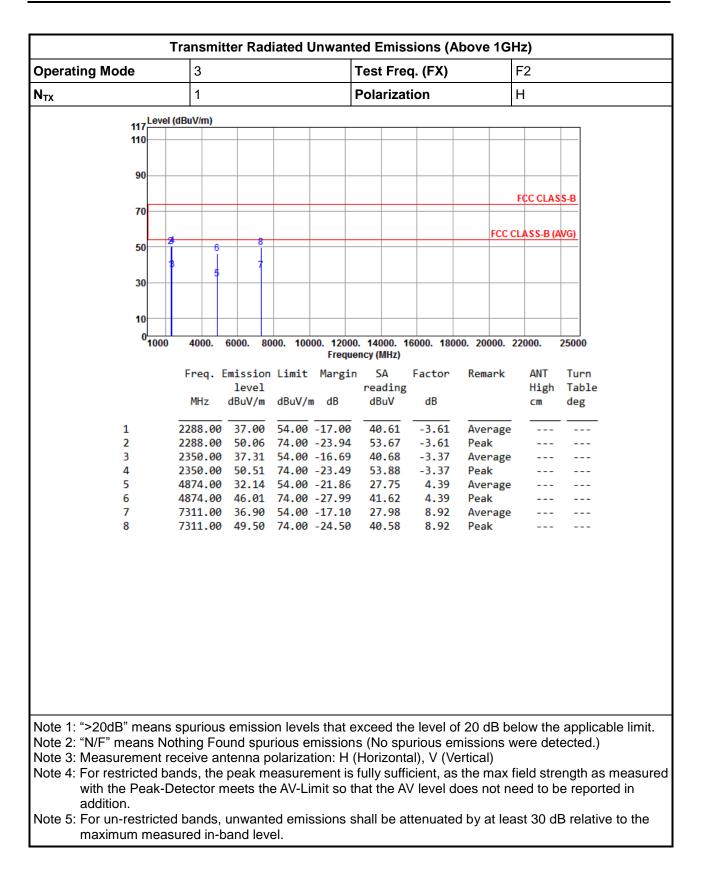






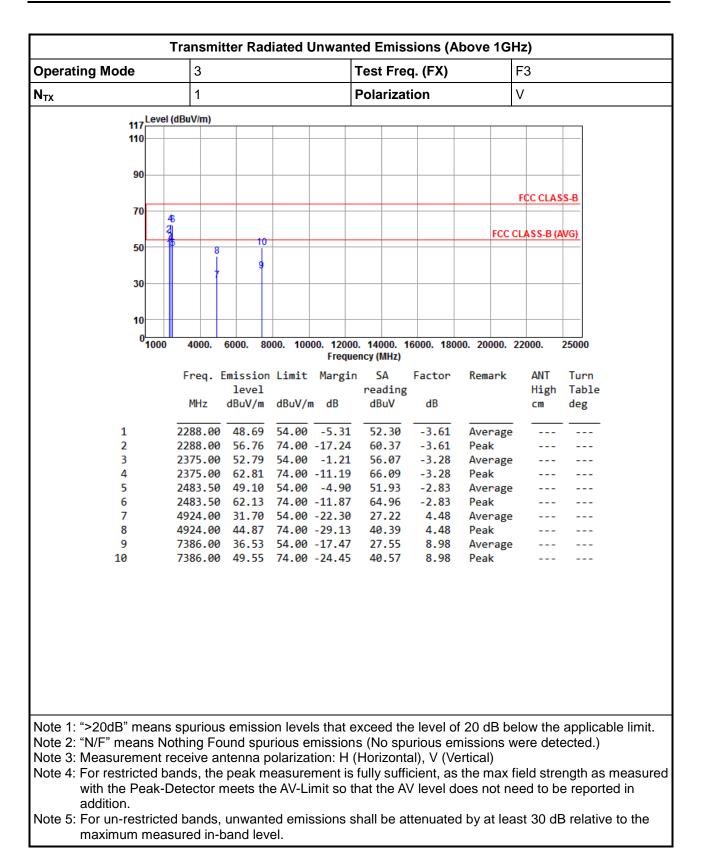






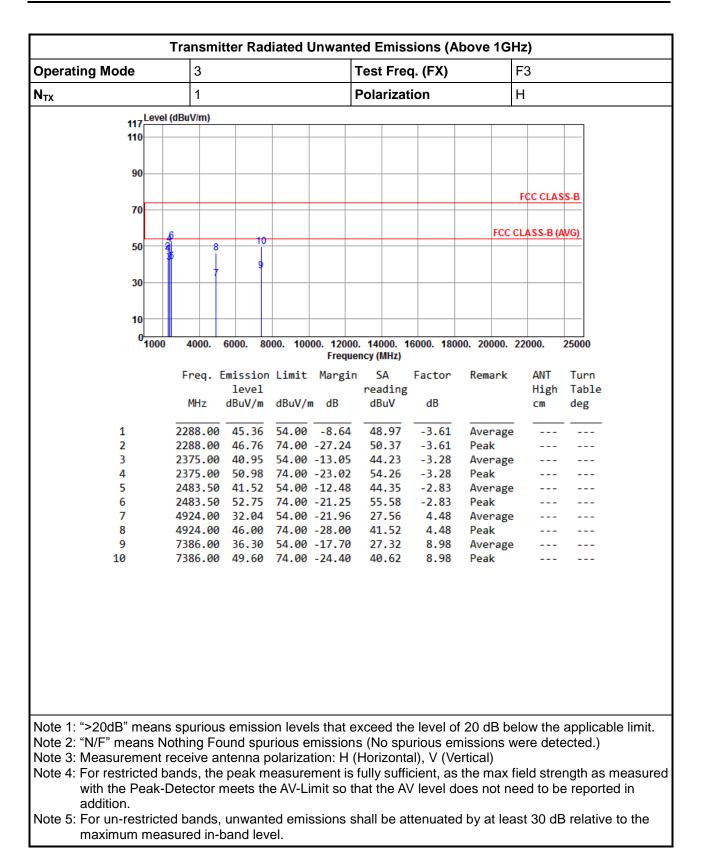












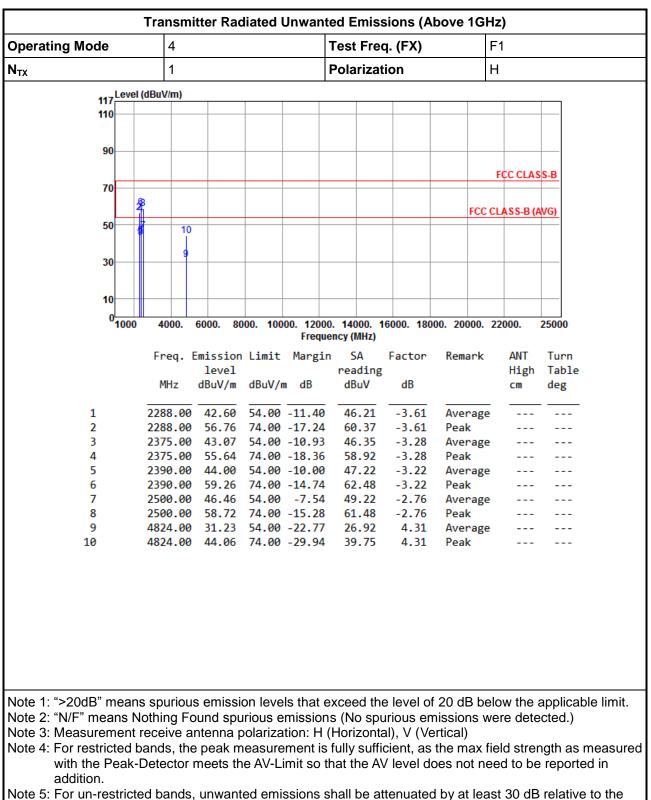


Operating Mode	4			-	Test Fre	a. (FX)		F	-1			
N _{TX}	1				Polariza	,			V			
				-								
	el (dBuV/m)											
110												
90						_						
									FCC CLAS	S-B		
70	_ ₽											
	2							FCC CI	LASS-B (A	WG		
50	10											
30	9								_			
10												
0 100	0 4000.	6000. 80	00. 100		. 14000. 1	6000. 180	00. 200	00. 2	2000.	25000		
					ncy (MHz)							
	Freq.	Emission	Limit	Margin		Factor	Rema	irk	ANT	Turn		
	MHz	level dBuV/m	dBuV/	m dB	reading dBuV	dB			High	Table		
	MITZ	ubuv/m	ubuv/i	iii ub	ubuv	ub			CM	deg		
1	2288.00	45.54	54.00	-8.46	49.15	-3.61	Aver	age				
2	2288.00		74.00	-16.31	61.30	-3.61	Peak	۲Ū				
3	2375.00		54.00		54.06	-3.28	Aver	-				
4	2375.00			-10.35	66.93	-3.28	Peak					
5 6	2390.00 2390.00		54.00		53.51 68.30	-3.22 -3.22	Aver Peak	<u> </u>				
7	2500.00				55.57	-2.76	Aver					
8	2500.00				68.13	-2.76	Peak	-				
9	4824.00			-23.35	26.34	4.31	Aver	age				
10	4824.00	43.79	74.00	-30.21	39.48	4.31	Peak	5				
lote 1: ">20dB" mea												
ote 2: "N/F" means l									ere det	ected.)		
lote 3: Measurement												
lote 4: For restricted												
with the Peak	-Detector	meets th	e AV-L	imit so th	hat the A	v level c	ioes no	ot ne	ed to b	e reported		
addition.	tod hord-	110.110.01	od o!	opione -	holl he e	Honusta	dhuc	+ 100-	1 20 J	D rolotico t		
lote 5: For un-restric maximum me				SSIONS S	nali de a	illenuate	u by a	i ieas	50 JU DE	o relative t		
	asureum		O 1.									

3.6.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b_ANT 4







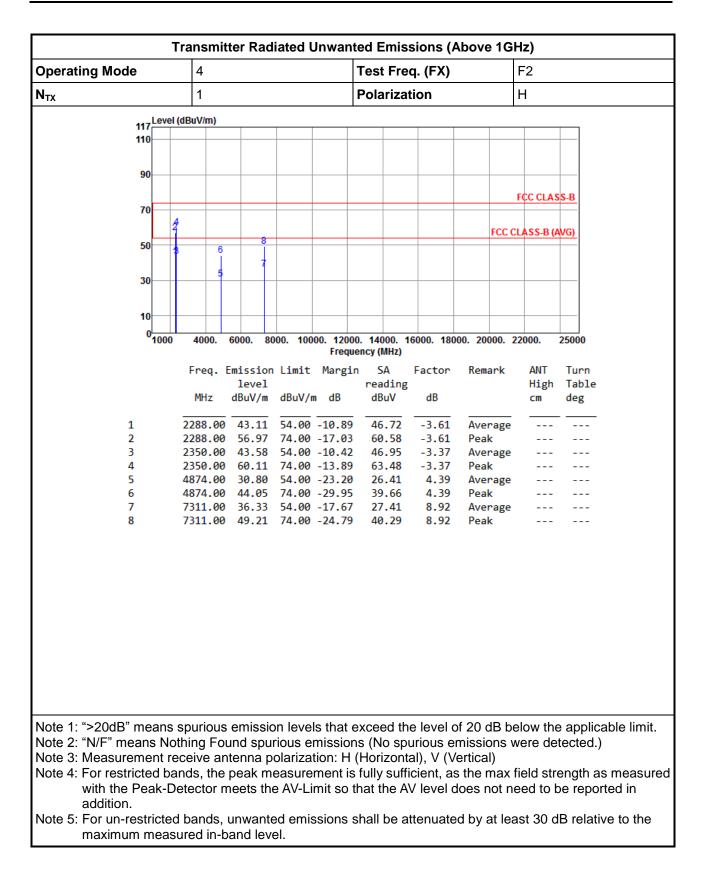




Operating Mode	4					Test	Fred	q. (FX)		Ţ	F2		
Ν _{τχ}	1					Pola	rizat	ion		,	V		
Lev	el (dBuV/	m)											
117 <u></u> 110		,											
110													
90													
											FCC CLAS	S-B	
70	4												
	2									CC C	LASS-B (A	NG)	
50	1	6	8										
30		5											
50													
10													
0 ¹ 100	0 400	00. 6	000. 80	00. 100	00. 120	00. 140	00. 10	6000. 180	00. 200	00. 2	2000.	25000	
					Freq	uency (l	AHz)						
	Fre	eq. En	mission	Limit	Margi	in S	Α	Factor	Rema	rk	ANT	Turn	
			level				ding				High	Table	
	MH	z (dBuV/m	dBuV/ı	n dB	dB	uV	dB			cm	deg	
1	2200		47 55	<u>F4 00</u>			10	2 (1	A			·	
1 2	2288 2288		47.55 57.77	54.00	-6.45		.16 .38	-3.61 -3.61	Aver Peak	-			
3	2350		52.85		-10.2		.22	-3.37	Aver				
4	2350				-9.24		.13	-3.37	Peak	-			
5	4874		31.27		-22.73		.88	4.39	Aver				
6	4874	.00	44.74	74.00	-29.26	5 40	.35	4.39	Peak				
7	7311		36.23				.31	8.92	Aver	-			
8	7311	.00	49.13	74.00	-24.87	40	.21	8.92	Peak				
6	4874 7311	.00	44.74	74.00 54.00	-29.26 -17.77	5 40 7 27	.35	4.39	Peak Aver	age			
Note 4: For restricted I	lothing receive pands,	Fou e ant the p	nd spui enna p beak m	rious e olariza easure	missio tion: H ment is	ns (N (Hori s fully	o spu zonta suffic	urious ei al), V (V cient, as	missio ertical) s the m	ns w lax fi	ere det ield stre	ected.) ength as m	easu
Note 3: Measurement Note 4: For restricted I with the Peak- addition. Note 5: For un-restrict maximum mea	receive bands, Detect ed ban	e ant the p or m ids, u	enna p beak mo eets the inwante	olariza easure e AV-Li ed emi:	tion: H ment is imit so	(Hòri s fully that t	zonta suffic ne A\	al), V (V cient, as / level d	ertical) s the m loes no	iax fi ot ne	ield stre ed to b	ength as m e reportec	in

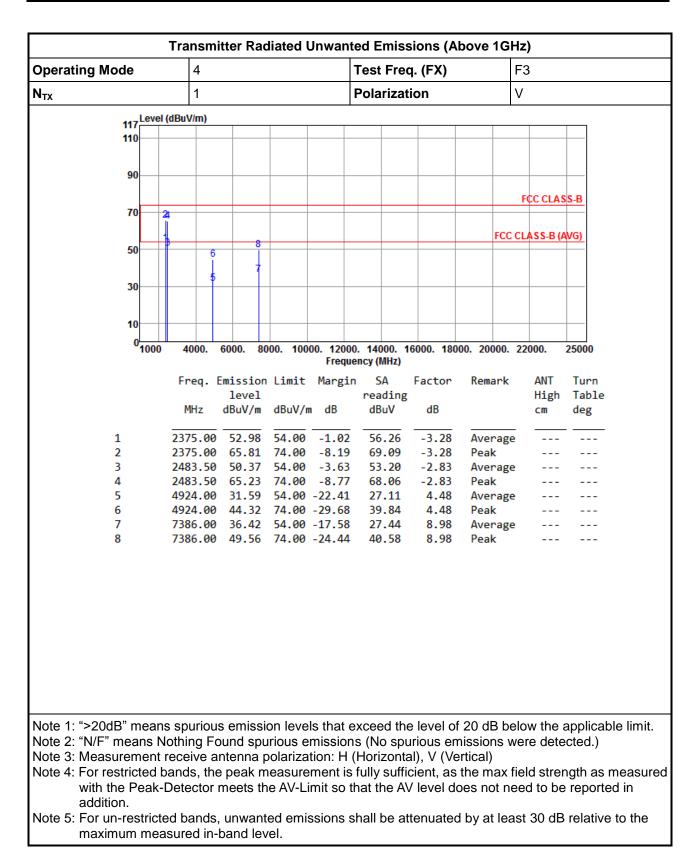






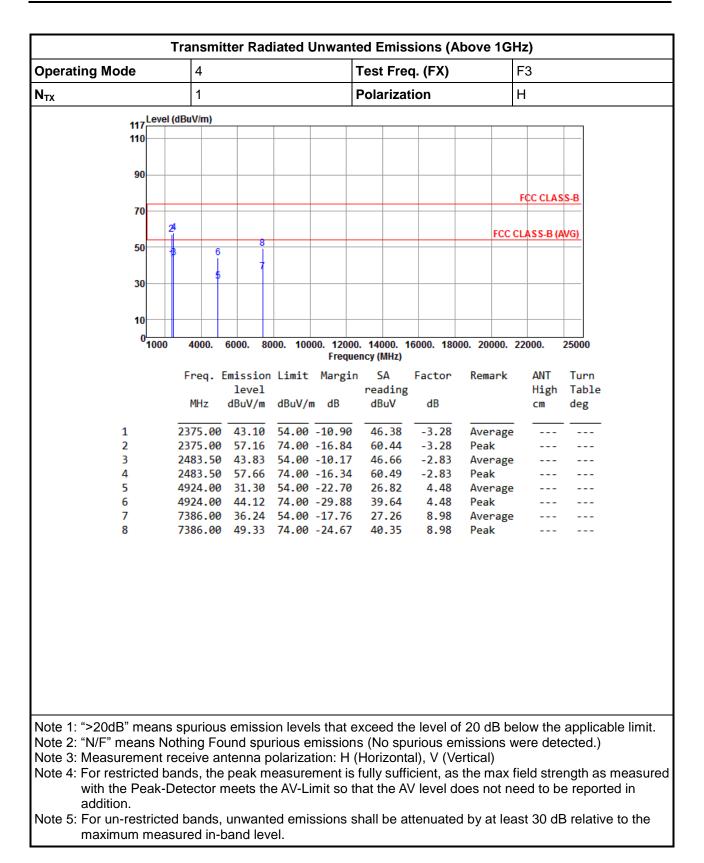












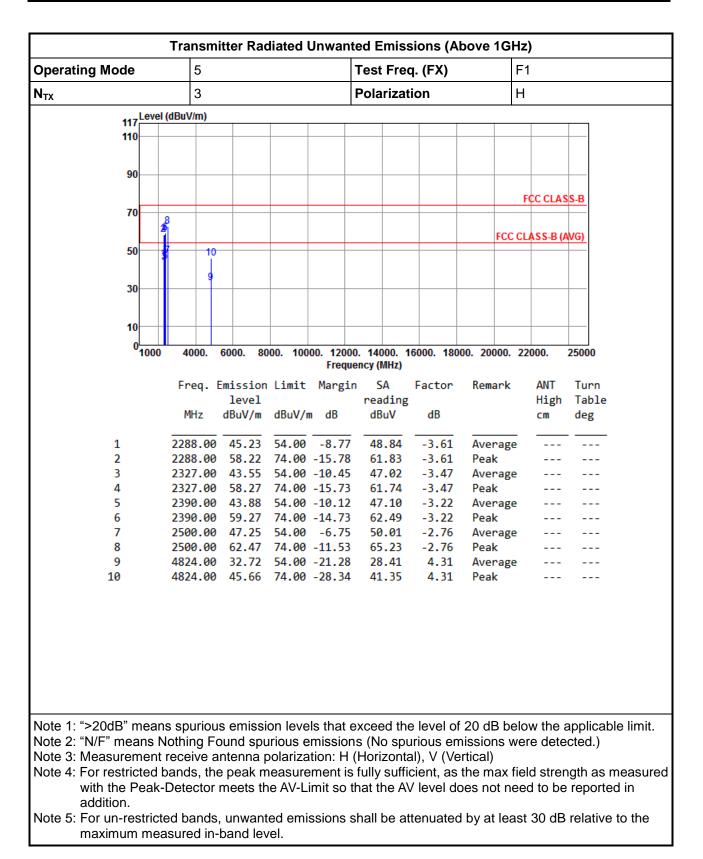


Operating Mode	5			٦	est Fre	q. (FX)		F	1		
N _{TX}	3				Polarizat	,		V			
Lev	el (dBuV/m)										
110											
90											
								F	CC CLAS	S-B	
70	8										
	2						F	CC CL	ASS-B (A	VG)	
50	10										
	9										
30											
10											
0 100	0 4000.	6000. 80	00. 100	00. 12000		6000. 180	000. 200	00. 22	2000.	25000	
	_				ncy (MHz)	-	-			-	
	Freq.	Emission	Limit	Margin		Factor	Rema	rk	ANT	Turn	
	MHz	level dBuV/m	dBuV/r	m dB	reading dBuV	dB			High cm	Table deg	
	1112	0000/11	0001/1		abav	40			CIII	uce	
1	2288.00	46.15	54.00	-7.85	49.76	-3.61	Aver	age			
2	2288.00			-14.53	63.08	-3.61	Peak				
3	2327.00			-5.05	52.42	-3.47	Aver	<u> </u>			
4 5	2327.00 2390.00			-13.08 -5.38	64.39 51.84	-3.47 -3.22	Peak Aver				
6	2390.00			-12.72	64.50	-3.22	Peak	<u> </u>			
7	2500.00				55.30	-2.76	Aver				
8	2500.00	65.87	74.00	-8.13	68.63	-2.76	Peak	-			
9	4824.00			-15.13	34.56	4.31	Aver	-			
10	4824.00	48.26	74.00	-25.74	43.95	4.31	Peak				
	· · · ·			L. (I)			(00 /7				
Note 1: ">20dB" mea	•) lim
Note 2: "N/F" means								is we	re dete	ectea.)	
Note 3: Measurement Note 4: For restricted								av fic	ld stro	nath as m	0201
with the Peak											
addition.				11111 SU II			0003110			reported	11.1
Note 5: For un-restric	ted bands	. unwante	ed emi	ssions sl	hall be a	ttenuate	d bv at	leas	t 30 dF	B relative t	o the
	asured in-			2010110 01			- ~ y ui	.040	. 55 al		

3.6.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b_ANT 5

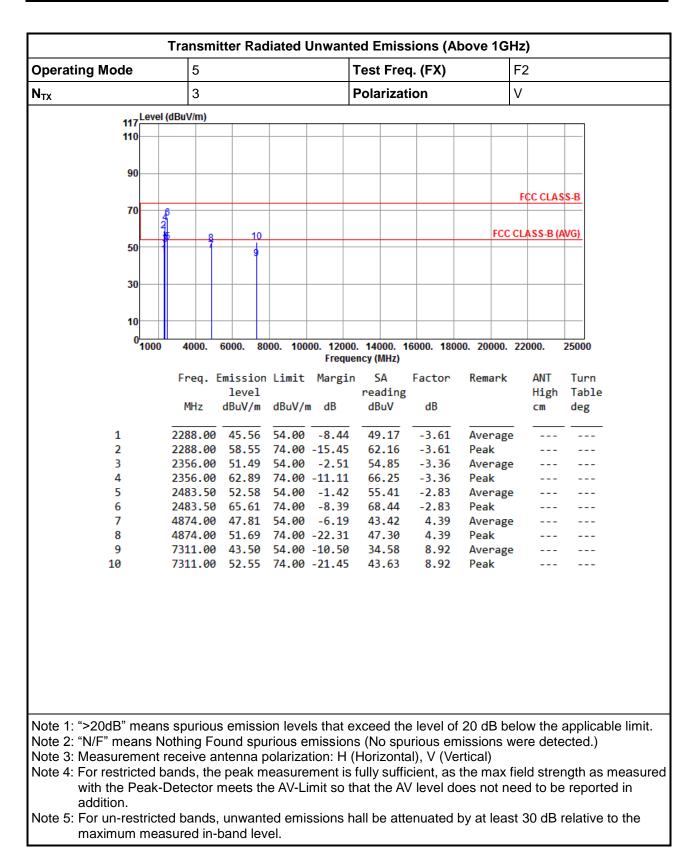






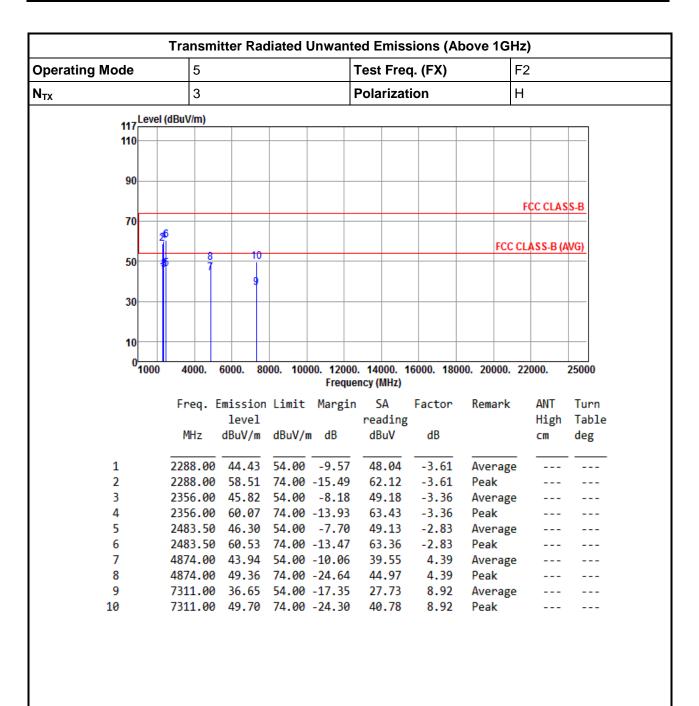










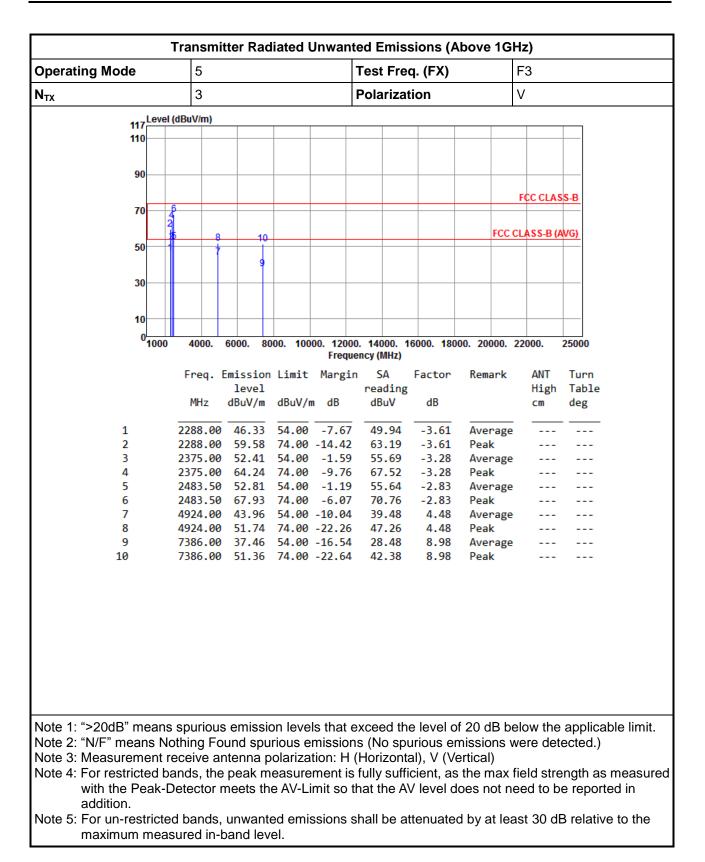


Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

- Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)
- Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)
- Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
- Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 30 dB relative to the maximum measured in-band level.

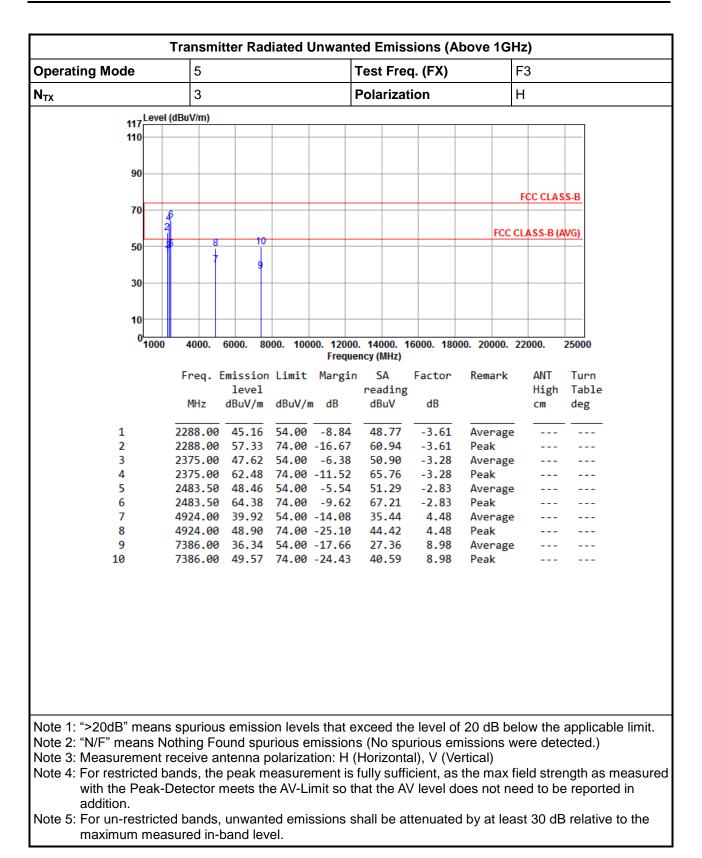




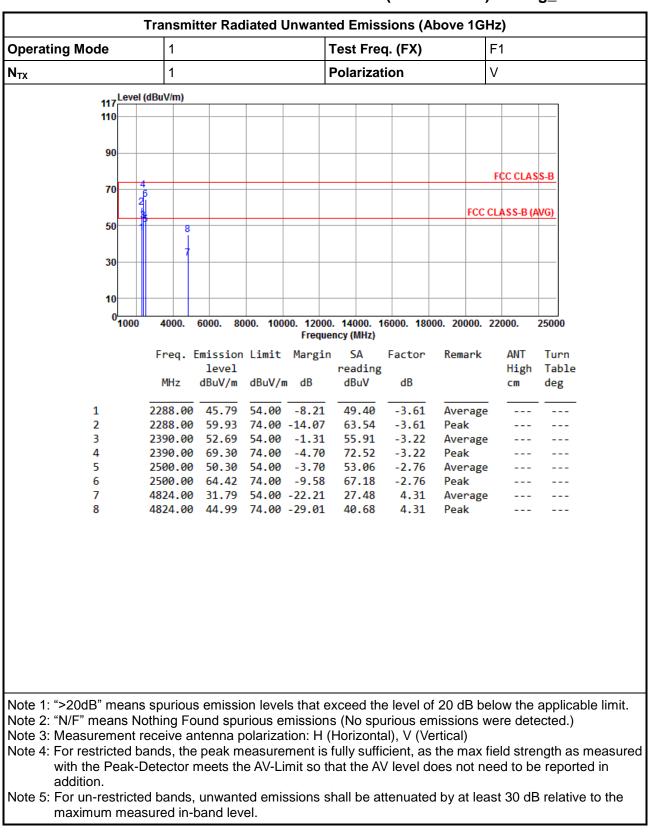












3.6.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g_ANT 1

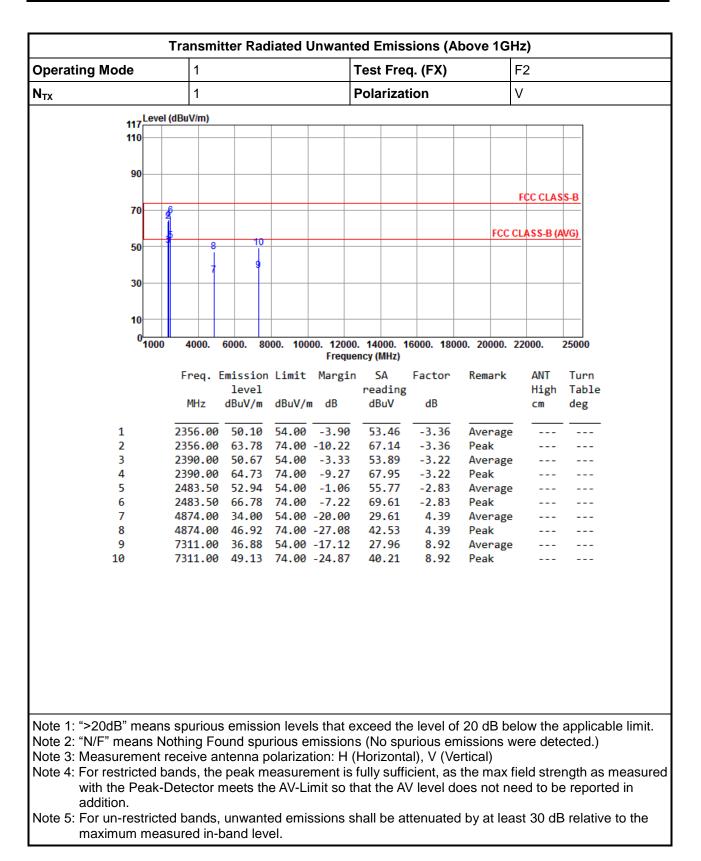




Operating	g Mode	1				Test Fre	eq. (FX)		F1	
<u>.</u> Ν _{τx}	_	1				Polariza	/		Н	
	117 Level	(dBuV/m)								
	117									
	90									
	70								FCC CLAS	SS-B
	10 4	5								
	50	-						FCC	CLASS-B (AVG)
	50 1	/ 8								
	30	7								
	50									
	10									
	0 <mark>1000</mark>	4000.	6000. 80	00. 100		0. 14000. ency (MHz)	16000. 180	00. 20000.	22000.	25000
		Enor	Emission	limi+	-		Factor	Remark	ANT	Turn
		Freq. 1	level	LIWIC	mangi	n SA readin		кешанк	High	Table
		MHz	dBuV/m	dBuV/r	n dB	dBuV	dB		cm	deg
	1	2288.00		54.00				Average	2	
	2 3	2288.00 2390.00		74.00 54.00	-16.35		-3.61 -3.22	Peak Average	 	
	4	2390.00						Peak		
	5	2500.00	46.52	54.00	-7.48	49.28	-2.76	Average	e	
	6	2500.00			-13.43			Peak		
	7	4824.00						Average		
	8	4824.00	44.83	74.00	-29.17	40.52	4.31	Peak		
Note 1. ">										annliaghla li
	·20dB" means I/F" means No									
	easurement r									ecieu.)
	or restricted b								field stre	noth as mea
	ith the Peak-E									
	ddition.									-1
	or un-restricte				ssions :	shall be a	attenuate	d by at lea	ast 30 dE	B relative to t
m	aximum meas	sured in-	band lev	el.						











Operating Mode		1				Test Fre	əq. (FX)		F2			
N _{TX}		1				Polariza	ation		Н			
44	Level (d	BuV/m)										-
11	1 1											
90	,											
									FC	C CLAS	S-B	
70												
	₽							FC		ASS-B (A	WG)	
50) -	8	10									
			9									
30		7										
10												
(1000	4000.	6000. 80	00. 100	00. 1200	0. 14000.	16000. 180	00. 2000	0. 220	000.	25000	
					Frequ	ency (MHz)					
		Freq.	Emission	Limit	Margi	n SA	Factor	Remar	'k	ANT	Turn	
			level			readi	-			High	Table	
		MHz	dBuV/m	dBuV/	m dB	dBuV	dB			cm	deg	
1	2	2356.00	46.56	54.00	-7.44	49.9	-3.36	Avera	ige			
2		2356.00			-13.78	63.5		Peak				
3	2	2390.00	46.53	54.00	-7.47	49.7	5 -3.22	Avera	ge			
4		2390.00			-13.67			Peak				
5		2483.50			-6.96	49.8		Avera	ige			
6 7		2483.50			-12.83			Peak	-			
8		4874.00 4874.00			-21.90			Avera Peak	ige			
9		7311.00			-17.23			Avera	ge			
10		7311.00			-23.53			Peak				
Note 1: ">20dB" r	neans	souriou	s emissi	n leve	ls that e	vceed t	ne level of	20 dB h	elow	the a	nnlicahle lir	mit
Note 2: "N/F" mea												
Note 3: Measurer											,	
Note 4: For restric									field	streng	gth as meas	sur
											reported in	
addition.											-	
Note 5: For un-re					ssions s	hall be a	attenuated	l by at le	east 3	0 dB r	elative to t	he
maximum	meas	ured in-	band lev	el.								

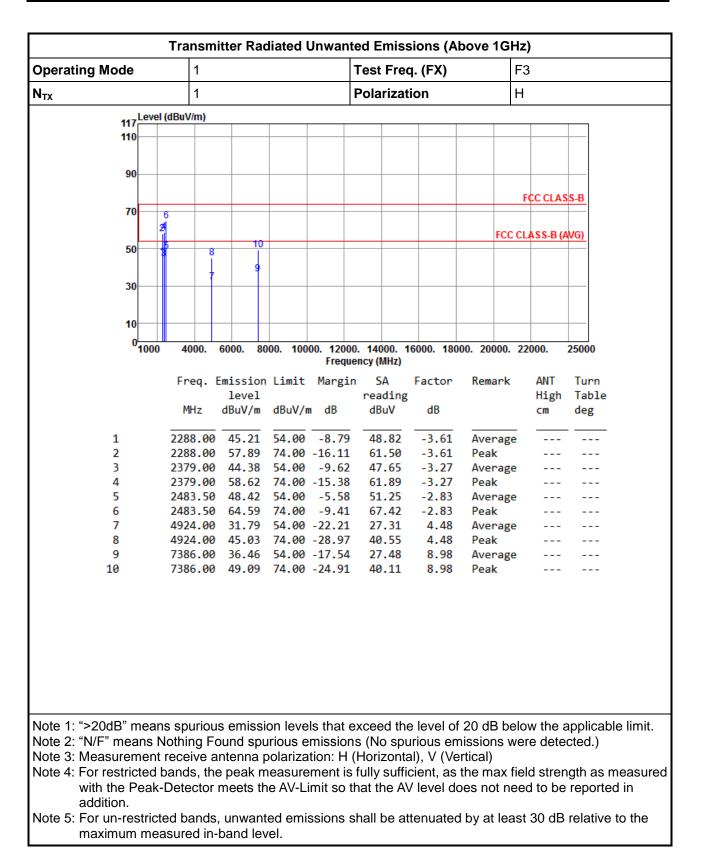




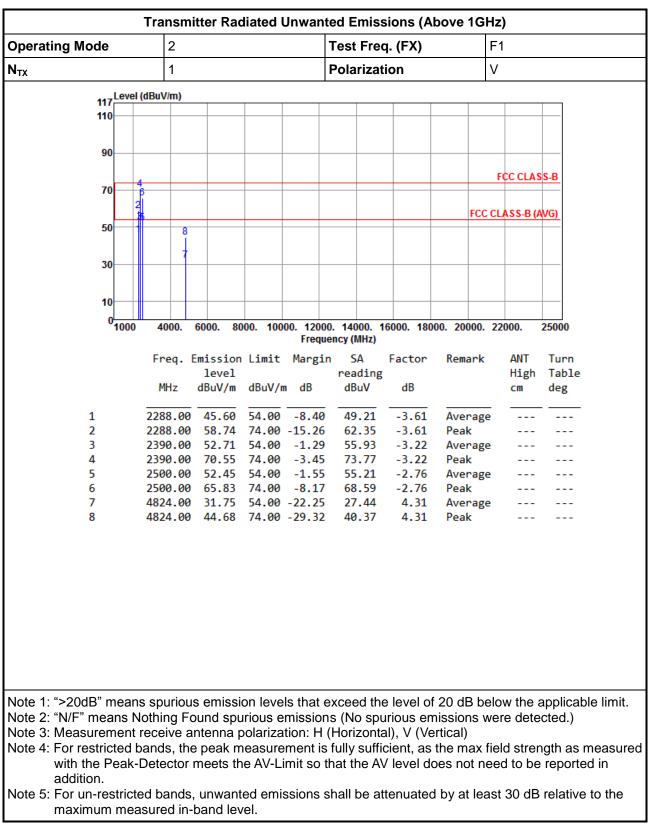
Operating M	ode		1				Test I	Freq	. (FX)		F3			
N _{TX}			1				Polar	izati	on		V			
	117	l (dBuV	//m)											
	110													
	90													
											_			
	70	6									ŀ	CC CLAS	S-B	
		2												
	50	5	-	10						F	CCCL	ASS-B(A	WG)	
	50		8											
	20		1	1										
	30													
	10													
	01000) 4(000.	6000. 8	000. 100				6000. 180	00. 2000	0. 22	000.	25000	
		-				-	Jency (M	-	-	-			_	
		Fr	eq. t	Emissior level	n Limit	Margi	n SA. read		Factor	Remar	ĸ	ANT High	Turn Table	
		м	Hz	dBuV/m	dBuV/	m dB	dBu	-	dB			cm	deg	
	1			46.06	54.00				-3.61	Avera	ge			
	2 3		8.00		74.00 54.00				-3.61 -3.27	Peak Avera	70			
	4			62.62					-3.27	Peak	8c			
	5			52.74					-2.83	Avera	ge			
	6			71.61					-2.83	Peak				
	7			32.16					4.48	Avera	ge			
	8 9			45.43 36.40					4.48 8.98	Peak Avera	a 0			
	10			49.57					8.98	Peak	ge			
Note 1: ">20		•												e limit
Note 2: "N/F"											wer	e dete	cted.)	
Note 3: Meas											, f :_1	d 04	ath a - ···	
Note 4: For r	estricted the Peak													
addit		-Dele			IC AV-L	iiiii 50	u at th	- 40		65 1101	166(reported	4 11 1
Note 5: For u		ted ba	ands	. unwan	ted emi	ssions	shall b	e att	enuated	by at le	ast	30 dB	relative	to the
	mum me													











3.6.13 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g_ANT 2

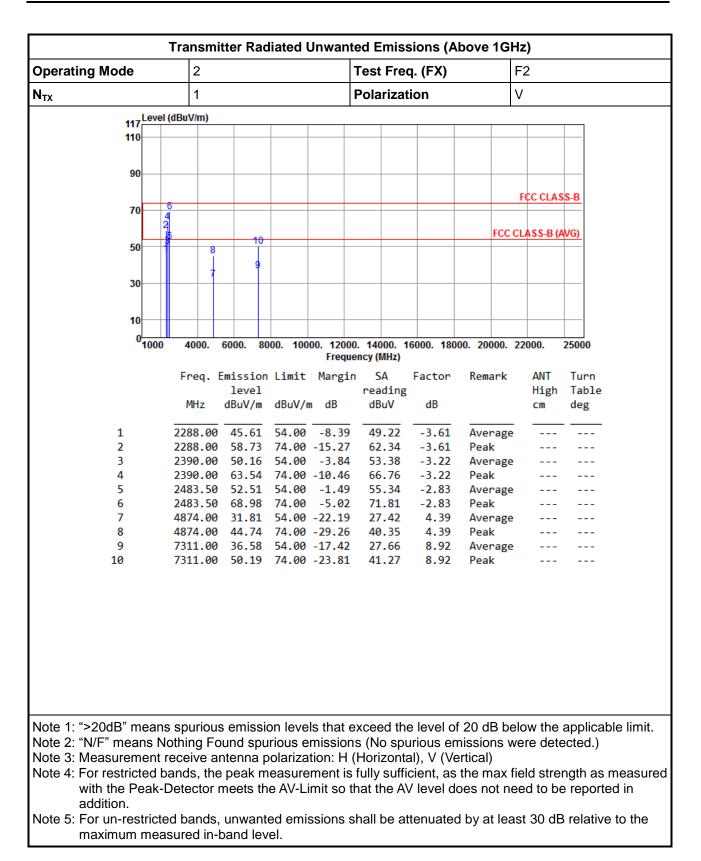




Operating Mode	2				Test Fre	q. (FX)		F1	
N _{TX}	1				Polarizat	ion		Н	
117	BuV/m)								
117									
110									
90									
								FCC CLAS	S-B
70 4									
20							FCC	CLASS-B (A	WG)
50	8								
30	7								
10									
01000	4000.	6000. 80	00. 100			6000. 180	00. 20000.	22000.	25000
					ency (MHz)				
	Freq. E	mission	Limit	Margir		Factor	Remark	ANT	Turn
	MHz	level dBuV/m	dBuV/n	dB	reading dBuV	dB		High cm	Table deg
	1112	ubuv/m	ubuv/i	i ub	ubuv	ub		CIII	ueg
1	2288.00	44.12	54.00	-9.88	47.73	-3.61	Average	2	
2	2288.00	56.61	74.00	-17.39	60.22	-3.61	Peak		
	2390.00			-5.65	51.57	-3.22	Average	2	
	2390.00			-7.63	69.59	-3.22	Peak		
	2500.00 2500.00			-7.18 -15.53	49.58 61.23	-2.76 -2.76	Average Peak	2	
	4824.00			-22.37		4.31	Average	· ···	
	4824.00					4.31	Peak		
-									
					1.4				
Note 1: ">20dB" means									
Note 2: "N/F" means No								vere dete	ectea.)
Note 3: Measurement re								field stray	ath as mass
Note 4: For restricted ba with the Peak-D									
addition.			E AV-LI	1111 SO I	nat the A		062 1101 11		
Note 5: For un-restricted	n nangs	unwant	ed emi	ssions s	hall he al	tenuateo	h by at lea	ast 30 de	relative to tr











Operating Mode	2			٦	Test Fred	 а. (FX)		F2		
N _{TX}	1			F	Polarizat	ion		Н		
Leve	l (dBuV/m)									
117										
90										
70								FC	CCLAS	S-B
	26									
50		10					FC	C CLA	ASS-B (A	NG)
50	9 8 									
30	7									
50										
10										
0 <mark></mark> 1000	4000.	6000. 80	000. 100		. 14000. 1 ncy (MHz)	6000. 180	00. 20000	. 220)00.	25000
	Enor	mission	limit	Margin		Factor	Remar		ANT	Turn
	rreq. i	level		Hargin	reading		Nelliari		High	Table
	MHz	dBuV/m	dBuV/ı	n dB	dBuV	dB			cm	deg
1	2288.00	44.97	<u>- 1 00</u>		49 44	- 2 (1	A			
1 2	2288.00 2288.00		54.00 74.00		48.44 62.26	-3.61 -3.61	Avera Peak	ge		
3	2390.00				48.60	-3.22	Avera	ge		
4	2390.00				62.03	-3.22	Peak			
5	2483.50 2483.50				48.96 62.17	-2.83 -2.83	Avera Peak	ge		
7	4874.00				27.58	4.39	Avera	ze		
8	4874.00				40.63	4.39	Peak			
9	7311.00				27.91	8.92	Avera	ge		
10	7311.00	50.51	74.00	-23.49	41.59	8.92	Peak			
				Le di se s						
Note 1: ">20dB" mear Note 2: "N/F" means I										
Note 3: Measurement								were		sted.)
Note 4: For restricted								field	d stren	gth as measu
with the Peak										
addition.										
Note 5: For un-restric maximum me	ted bands	, unwani	ted emi	ssions sl	nall be at	tenuatec	i by at le	ast 3	30 dB	relative to the





Operating Mode	2	2			•	Test Fre	q. (FX)		F3		
N _{TX}	1					Polariza	tion		V		
117	l (dBuV/m	n)									
117		·/									
110											
00											
90											
	_		_						F	CC CLAS	<u>S-B</u>
70	4										
	2							FC	C CL	ASS-B (A	VG)
50		8	<u>10</u>								
		ļ	9								
30		4	_								
10											
0 <mark>1000</mark>	400	0. (6000. 80	000. 100). 14000. ency (MHz)	16000. 180	00. 20000). 22	000.	25000
	-	-			-						-
	Fred	а. с	mission level	n Limit	Margin	n SA reading	Factor	Remar	ĸ	ANT High	Turn Table
	MHz	,	dBuV/m	dBuV/	m dB	dBuV	s dB			cm	deg
		-									
1	2288.	.00	46.03	54.00	-7.97	49.64	-3.61	Avera	ge		
2	2288.				-15.15	62.46	-3.61	Peak			
3			47.71			50.98	-3.27	Avera	ge		
4			61.49 52.95		-12.51 -1.05	64.76 55.78	-3.27 -2.83	Peak Avera			
6			68.41			71.24	-2.83	Peak	Be		
7					-22.41	27.11		Avera	ge		
8	4924.	.00	44.74	74.00	-29.26	40.26	4.48	Peak			
9	7386.	.00	36.42	54.00	-17.58	27.44	8.98	Avera	ge		
10	7386.	.00	49.54	74.00	-24.46	40.56	8.98	Peak			
									<u> </u>		
Note 1: ">20dB" mea											
Note 2: "N/F" means									wer	e dete	cted.)
Note 3: Measurement									field	d etron	ath as moasu
Note 4: For restricted with the Peak											
addition.	-DeleC		กออเร แ	ie Av-L	inni SU li	iat the A		562 101 1	iee(i io ne	reported in
Note 5: For un-restric	tad har	hde	unwant	tod omi	ccione e	hall ha a	ttopuotoc	h by at la	act	30 4B	relative to the
	ieo nar				22101122		lieniaier) DV AL I⊟	12		





$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Image: constraint of the second se	Operatin	g Mode	2			ŀ	Test Fre	q. (FX)		F3		
110 90 <t< th=""><th>110 90 <t< th=""><th>N_{TX}</th><th></th><th>1</th><th></th><th></th><th> </th><th>Polarizat</th><th>tion</th><th></th><th>Н</th><th></th><th></th></t<></th></t<>	110 90 <t< th=""><th>N_{TX}</th><th></th><th>1</th><th></th><th></th><th> </th><th>Polarizat</th><th>tion</th><th></th><th>Н</th><th></th><th></th></t<>	N _{TX}		1				Polarizat	tion		Н		
110 90 <t< th=""><th>110 90 <t< th=""><th></th><th>Level</th><th>(dBuV/m)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<></th></t<>	110 90 <t< th=""><th></th><th>Level</th><th>(dBuV/m)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		Level	(dBuV/m)									
90 6 7 6 6 7 7 6 6 7 7 6 7	90 0			(4247.11)									
1 2288.00 44.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 3 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 4 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 2 2483.50 48.56 54.00 -5.44 51.39 -2.83 Average	Image: constraint of the second se												
1 2288.00 44.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 3 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 4 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 2 2483.50 48.56 54.00 -5.44 51.39 -2.83 Average	Image: constraint of the second se												
70 6 10 FCC CLASS-B (AVG) 50 8 10 FCC CLASS-B (AVG) 30 9 9 10 10 10 10 10 10 10 10 10 100 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 25000 Frequency (MHz) Frequency (MHz) Frequency (MHz) Turn High Table cm deg 1 2288.00 44.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 2 2288.00 56.87 74.00 -15.56 61.71 -3.27 Average 2 2279.00 58.44 74.00 -15.56 61.71 -3.27 Average 2 2483.50 48.56 54.00 -5.44 51.39 -2.83 Average	70 8 10		90										
70 6 70 6 70 7	70 8 10										FCC CLAS	S-B	
50 8 10 FCC CLASS-B (AVG) 30 7 9 9 9 30 7 9 9 9 10 7 9 9 9 10 7 9 9 9 10 7 9 9 9 10 7 9 9 9 10 7 9 9 9 10 7 9 9 9 10 100 1000 1000 12000 14000 16000 12000 2000 2200 25000 Frequency (MHz) Frequency (MHz) 10	Image: Second system Image: Second system FCC CLASS-B (AVG) Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second system Image: Second sys		70	6									
50 8 10	50 8 1000 10000 10000 12000 14000 16000 18000 20000 22000 25000 Freq. Emission Limit Margin SA Factor Remark ANT Turn level reading MHz dBuV/m dB uV/m dB dBuV dB 7 3.61 Average			-									
30 9 9 1	30 4 4 9 4			5	10					FCC	CLASS-B (A	WG)	
10 0 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Freq. Emission Limit Margin SA Factor reading MHz dBuV/m dB dB deg 1 2288.00 44.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 3 2379.00 43.58 54.00 -10.42 46.85 -3.27 Average 4 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 5 2483.50 48.56 54.00 -5.44 51.39 -2.83 Average	10 0 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Freq. Emission Limit Margin SA requency (MHz) MHz dBuV/m dBuV/m dB dBuV dB cm deg 1 2288.00 44.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 2 2288.00 56.87 74.00 -15.56 61.71 -3.27 Average 2 2288.00 58.44 74.00 -15.56 61.71 -3.27 Peak 2 2483.50 48.56 54.00 -5.44 51.39 -2.83 Average 4 2379.00 51.74 54.00 -22.62 27.26 4.48 Average 5 2483.50 63.79 74.00 -10.21 66.62 -2.83		50	8 8									
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0 1000 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Frequency (MHz) Freq. Emission Limit Margin SA Factor Remark ANT Turn level reading High Table MHz dBuV/m dBuV/m dB dBuV dB cm deg 1 2288.00 44.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 3 2379.00 43.58 54.00 -10.42 46.85 -3.27 Average 4 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 5 2483.50 48.56 54.00 -5.44 51.39 -2.83 Average	0 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Freq. Emission Limit Margin SA Level Factor reading Remark ANT Turn MHz dBuV/m dB dBuV dB cm deg 1 2288.00 44.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 3 2379.00 43.58 54.00 -10.42 46.85 -3.27 Average 4 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 5 2483.50 48.56 54.00 -5.44 51.39 -2.83 Average 6 2483.50 63.79 74.00 -10.21 66.62 -2.83 Peak 7 4924.00 31.74 54.00 -22.26 27.26 4.48 Average <td></td>												
Frequency (MHZ) Frequency (MHZ) Freq. Emission Limit Margin SA reading Factor Remark ANT Turn High Table cm Introduction MHz dBuV/m dBuV/m dB dBuV dB	Frequency (MHz) Frequency (MHz) Frequency (MHz) Frequency (MHz) Frequency (MHz) Imits Margin SA Factor Remark ANT Turn High Table Imits dBuV/m dB uV/m dB dBuV MHz dBuV/m dBuV/m dB dBuV dBuV 1 2288.00 644.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 3 2379.00 43.58 54.00 -10.42 46.85 -3.27 Average 4 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 5 2483.50 63.79 74.00 -10.21 66.62 -2.83 Average 6 2483.50 63.79 74.00 -22.26 27.26 4.48 Average </td <td></td> <td>10</td> <td></td>		10										
Frequency (MHZ) Freq. Emission Limit Margin SA reading Factor Remark ANT Turn High Table cm level reading dBuV dB dBuV dB cm deg 1 2288.00 44.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 3 2379.00 43.58 54.00 -10.42 46.85 -3.27 Average 4 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 5 2483.50 48.56 54.00 -5.44 51.39 -2.83 Average	Frequency (MHz) Frequency (MHz) Frequency (MHz) Frequency (MHz) Frequency (MHz) Imits Margin SA Factor Remark ANT Turn High Table Imits dBuV/m dB uV/m dB dBuV MHz dBuV/m dBuV/m dB dBuV dBuV 1 2288.00 644.56 54.00 -9.44 48.17 -3.61 Average 2 2288.00 56.87 74.00 -17.13 60.48 -3.61 Peak 3 2379.00 43.58 54.00 -10.42 46.85 -3.27 Average 4 2379.00 58.44 74.00 -15.56 61.71 -3.27 Peak 5 2483.50 63.79 74.00 -10.21 66.62 -2.83 Average 6 2483.50 63.79 74.00 -22.26 27.26 4.48 Average </td <td></td> <td>0</td> <td>4000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		0	4000									
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	8 4924.00 45.35 74.00 -28.65 40.87 4.48 Peak 9 7386.00 36.35 54.00 -17.65 27.37 8.98 Average												
0	9 7386.00 36.35 54.00 -17.65 27.37 8.98 Average										2		
	8		_								· ···		
8										-			
			10				2						
		Note 1: "	>20dB" mean	s spurious	s emissio	on leve	ls that e	xceed th	e level o	f 20 dB b	elow the	applicable	lim
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicab	lote 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable I												
	Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable I											/	
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)	Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)				•		•			,	field stre	ngth as me	ası
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)	Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)												
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as r	Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as mea												
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as r	Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as mea with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in	Note 5: F	or un-restricte	ed bands.	unwant	ed emi	ssions s	hall be a	ttenuated	d by at lea	ast 30 dE	B relative to	o the
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as r with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reporte addition. 	Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as mea with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in		naximum mea							-			

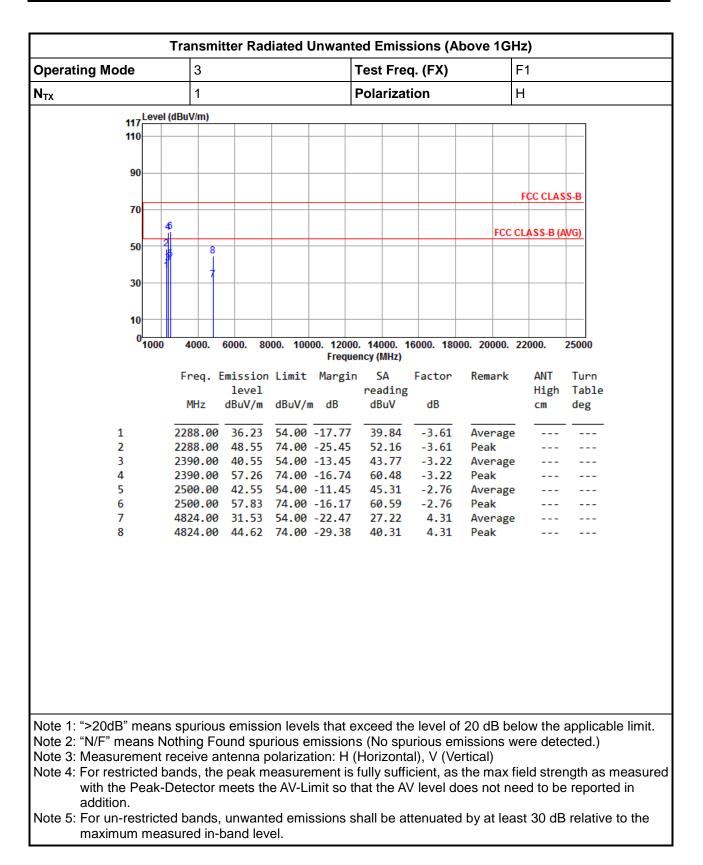


Operating	Mode	3			-	Test Fre	q. (FX)		F	1		
N _{TX}		1				Polarizat	tion		V	,		
	Leve	el (dBuV/m)										
	11/	a (ubu viin)										
	110											
	90											
									I	CC CLAS	S-B	
	70	46										
		2							FCC CI	ASS-B (A	WG)	
	50	1 8									<u> </u>	
		Ĩ										
	30	7										
	40											
	10											
	0 <mark>1000</mark>) 4000.	6000. 80	00. 100		. 14000. 1	6000. 180	00. 200	00. 22	2000.	25000	
					-	ncy (MHz)						
		Freq.	Emission	Limit	Margin		Factor	Rema	irk	ANT	Turn	
		MU	level	10.1//		reading				High	Table	
		MHz	dBuV/m	aBuv/r	n ab	dBuV	dB			CM	deg	
	1	2288.00	47.55	54.00	-6.45	51.16	-3.61	Aver	age			
	2	2288.00			-16.38	61.23	-3.61	Peak	<u> </u>			
	3	2390.00		54.00		55.96	-3.22	Aver	age			
	4	2390.00		74.00		71.02	-3.22	Peak				
	5	2500.00		54.00		54.80	-2.76	Aver	-			
	6 7	2500.00 4824.00			-7.61 -22.11	69.15 27.58	-2.76 4.31	Peak Aver				
	8		44.75			40.44	4.31	Peak				
Note 1: ">2												ble limi
Note 2: "N/										ere dete	ected.)	
Note 3: Me										- سنع اما	به منداد م	
Note 4: For												
	n the Peak	Detector	meets th	e AV-LI	init so th	hat the A	v ievel d	ues no	ot nee		e report	ea in
ado Note 5: For	dition.	ad banda	unwort	ad ami	ecione e	hall ha a	Itonuata	dhua		+ 30 4c	R rolativ	a ta tha
илле () с()[นกาษอเกต	eu natius,	unwante	su enn	2210112 2	nan be a	uenuale	u uy al	leas	1 30 UE	reiativ	

3.6.14 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g_ANT 3

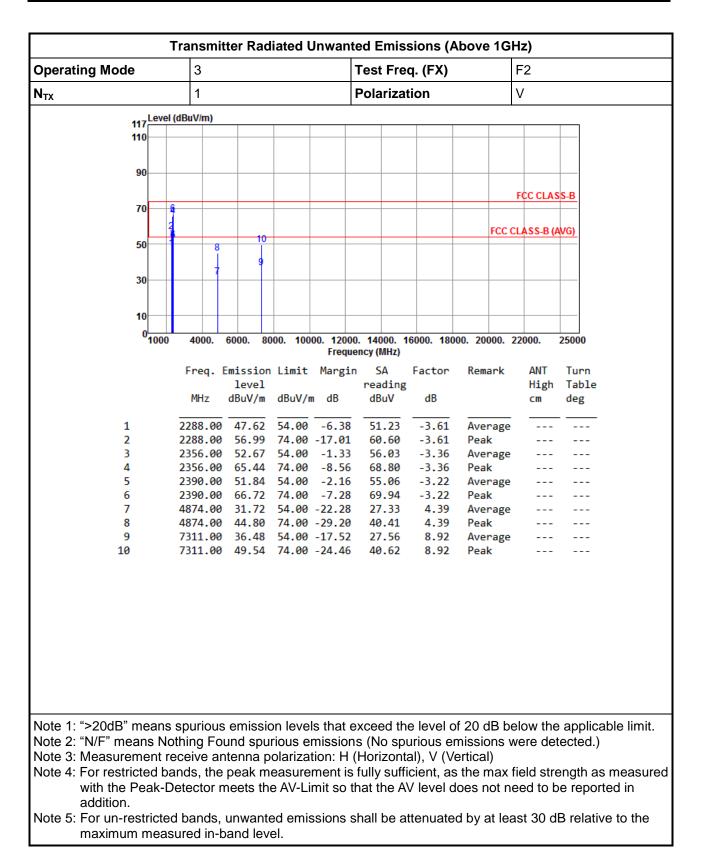






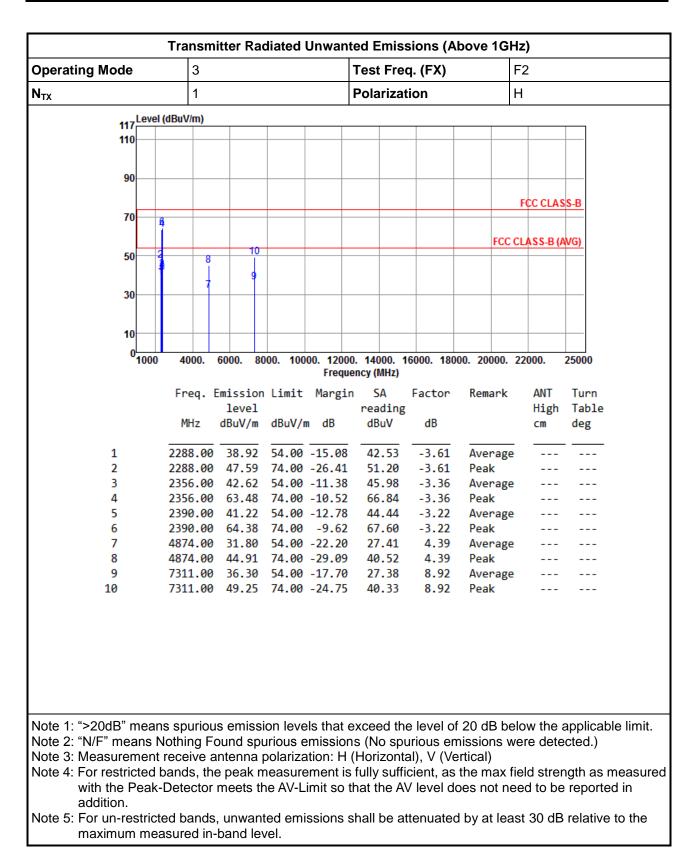






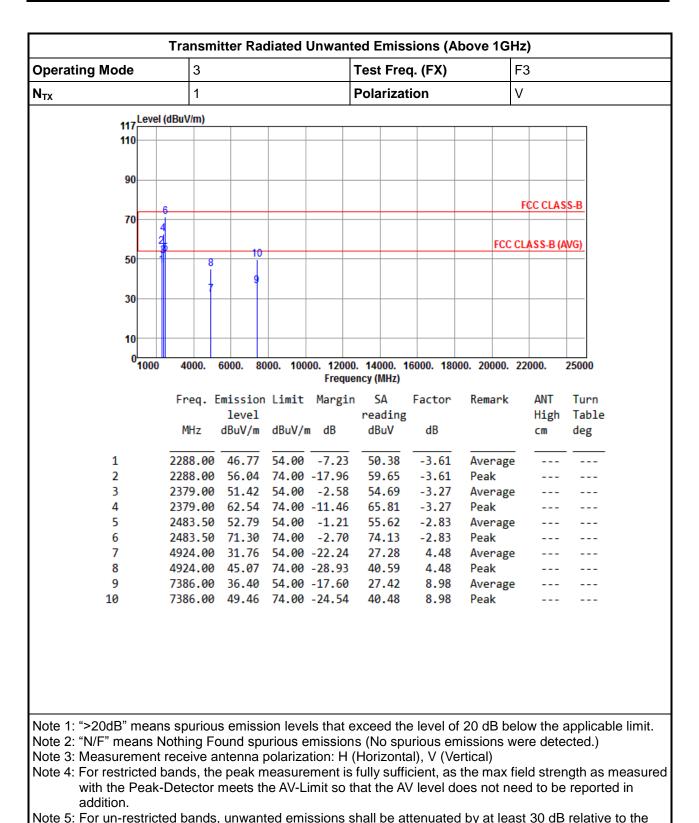








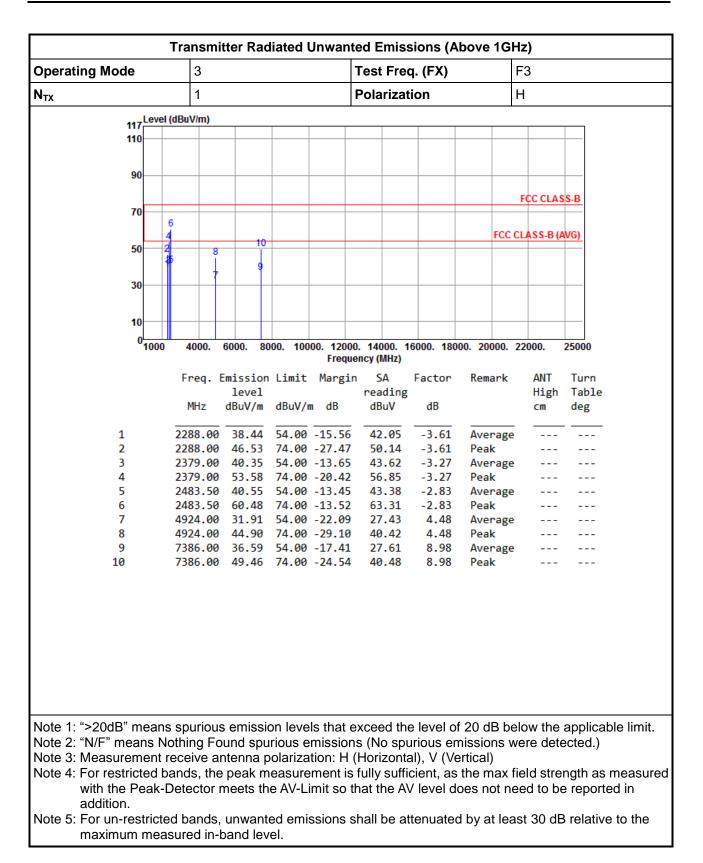




maximum measured in-band level.







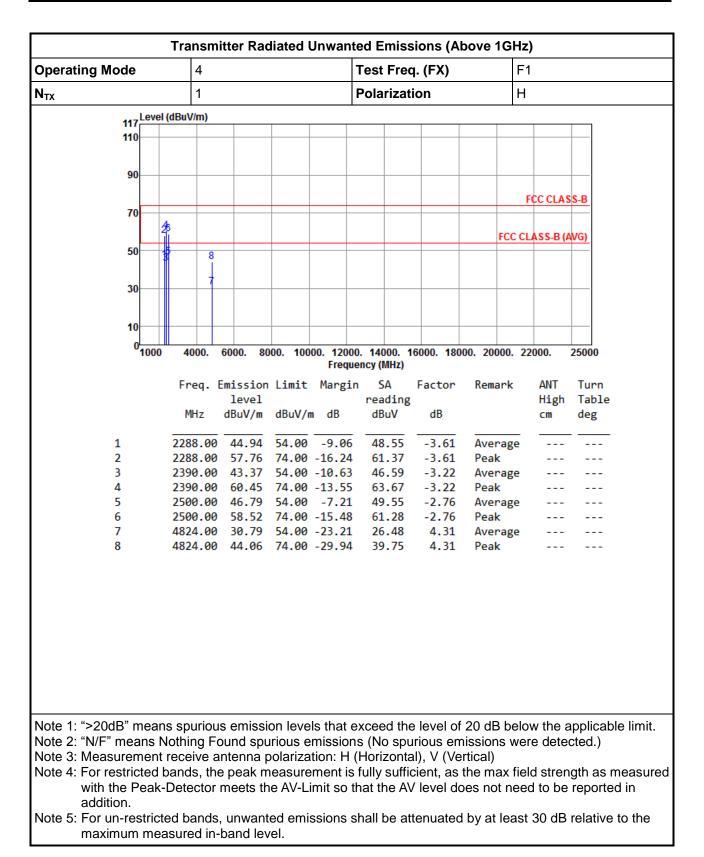


Operating Mode	4			1	Test Free	q. (FX)		F1	
N _{TX}	1				Polarizat	,		V	
	l (dBuV/m)					_			
117									
90								FCC CLAS	<u>Б-В</u>
70	4						FCC C	CLASS-B (A	VG)
50	8								
30									
0) 4000.	6000. 80	00. 100). 14000. 1 ency (MHz)	6000. 180	000. 20000. 2	22000.	25000
	Freq. MHz	Emission level dBuV/m		_	n SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00			-1.88	55.73	-3.61	Average		·
2 3	2288.00 2390.00	60.98		-13.02	64.59 55.20	-3.61 -3.22	Peak Average		
4	2390.00		74.00	-7.06	70.16	-3.22	Peak		
5	2500.00	52.54 67.24			55.30 70.00	-2.76 -2.76	Average Peak		
7	4824.00				26.85	4.31	Average		
8	4824.00	44.03	74.00	-29.97	39.72	4.31	Peak		
						urious e	missions v		
Note 1: ">20dB" mean Note 2: "N/F" means N Note 3: Measurement Note 4: For restricted b	receive ar	ntenna p						field stre	ength as measur

3.6.15 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g_ANT 4



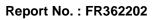








Operating Mod	e		4					Test	Frec	ι. (FX)		F2	2		
N _{TX}			1					Pola	rizati	ion		V			
	Lev	el (dBu	IV/m)									_			
	17														
	90														
	90														
		4										F	CC CLAS	SS-B	
	70	a													
					40						F	CC CL	ASS-B(/	WG)	
	50		8		10										
					9										
	30				_										
	10		_		+									<u> </u>	
	0 100		4000	6000		00. 100	00 420	00 440	00 4	6000. 180	00 2000	0 22	000	25000	
	100	0 4	4000.	6000.	80	100. 100		uency (I		0000. 180	00. 2000	0. 22	2000.	25000	
		F	rea.	Emiss	ion	Limit	Margi	n S	Δ	Factor	Remar	k	ANT	Turn	
				lev					ding				High	Table	
			MHz	dBuV	/m	dBuV/ı	n dB	dB	uV	dB			cm	deg	
1			88.00 88.00			54.00	-1.97		.64	-3.61 -3.61	Avera Peak	ge			
3) 51.		54.00			.02	-3.36	Avera	ØP			
4						74.00			.35	-3.36	Peak	8-			
5		23	90.00	52.	44	54.00	-1.56	5 55	.66	-3.22	Avera	ge			
6						74.00			.25	-3.22	Peak				
7 8							-22.79		.82	4.39	Avera	ge			
o 9							-29.26		.35	4.39 8.92	Peak Avera	σe			
10							-24.95		.13	8.92	Peak	8°			
Note 1: ">20dB"															le limi
Note 2: "N/F" me												we	re dete	ected.)	
Note 3: Measure					•			•			,	. f		antla	
Note 4: For rest															
with the addition		-Det	ector	meet	ຣເກ	e AV-L	iiiii SO	แลเเ	IE AV	level do	105 110[nee		reporte	uIII
Note 5: For un-r		ted F	and	s. unw	ant	ed emi	ssions	shall	be at	tenuateo	bv at l	east	30 dB	relative	to the
maximu							20.0110	2.1011					2000		

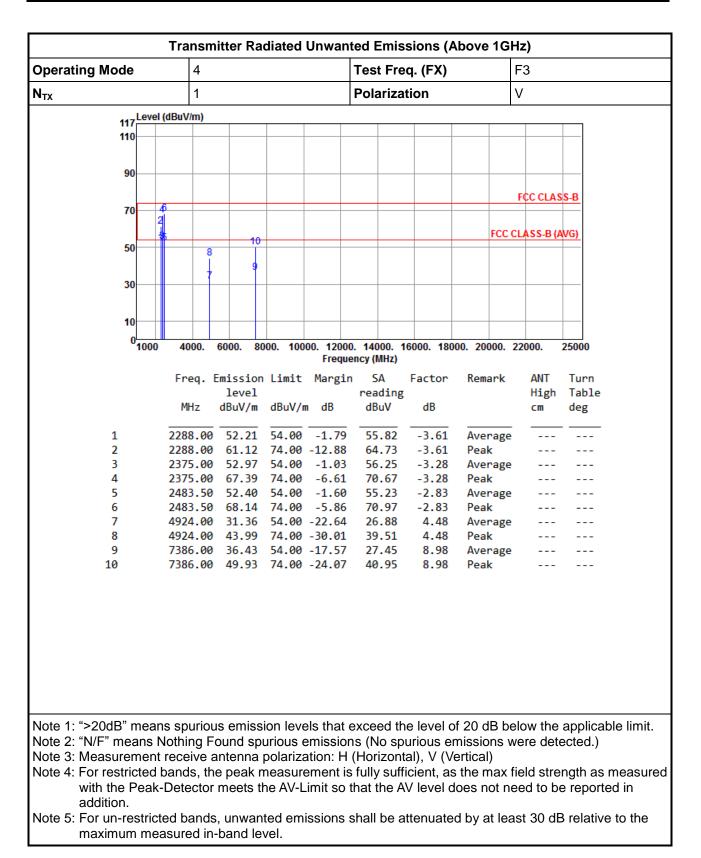




Operating Mode	4			Т	est Freq	. (FX)		F2	
N _{TX}	1			P	olarizati	on		Н	
117	dBuV/m)								
110									
90									+
								FCC CLA	SS-B
70									
4							FCC	CLASS-B (M(G)
50 50		10						CLA33-D (HVO)
	8								
	1								
30									
10									+
0 <mark></mark>	4000.	6000. 80	00. 100	00 12000	. 14000. 1	6000 180	00 20000	22000	25000
1000	4000.				ncy (MHz)		20000.	22000.	20000
	Frea.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
		level		0	reading			High	Table
	MHz	dBuV/m	dBuV/r	n dB	dBuV	dB		cm	deg
1	2288.00			-9.06	48.55	-3.61	Average	e	
2 3	2288.00	57.97		-16.03	61.58 46.75	-3.61 -3.36	Peak		
4	2354.00			-13.92	40.75 63.44	-3.36	Averag Peak		
5	2390.00			-8.80	48.42	-3.22	Average	e	
6	2390.00			-13.64	63.58	-3.22	Peak		
7	4874.00	31.33	54.00	-22.67	26.94	4.39	Average	e	
8	4874.00	44.25	74.00	-29.75	39.86	4.39	Peak		
9	7311.00			-17.74	27.34	8.92	Average	e	
10	7311.00	49.17	74.00	-24.83	40.25	8.92	Peak		
					1.4				
Note 1: ">20dB" means									
Note 2: "N/F" means No								ere dete	cted.)
Note 3: Measurement re								الماط منتحت	ath as me
Note 4: For restricted ba with the Peak-D									
with the Peak-L	relector l	HEETS THE	- AV-II	uiii so th	ai ine AV	ievei do	es not ne	eu io de	теропед И

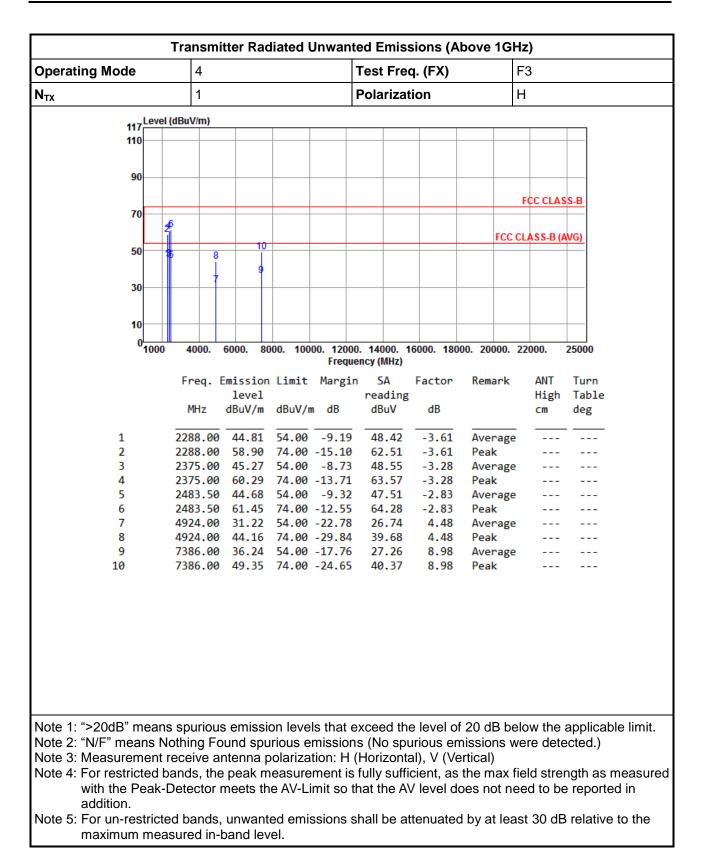












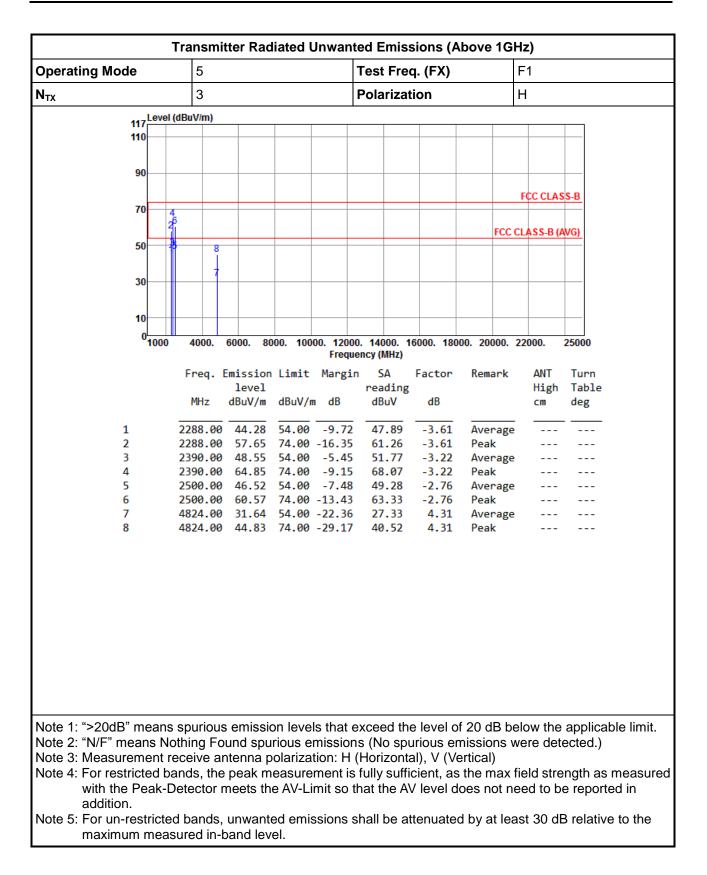


$\frac{1}{P_{TX}}$ 3 Polarization V $\frac{1}{P_{TX}}$ $\frac{1}{P_{TX}}$ Polarization V $\frac{1}{P_{TX}}$ $$	NTx 3 Polarization V Intervention Visit of the second se	Operating Mode	5	5				Test Freq. (FX)			F1	
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o	o											
									-			
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable li			•	•			· ·			vere det	ected.)	
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)	Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)											
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)	Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)											
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as mea	Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as mea		Detector	meets th	e AV-Li	imit so th	hat the A	v level c	noes not n	eed to b	e reported in	
 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measurement the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in 	 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measurement the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in 		ad hande	unwont	od omi	ssions o	hall he e	ttenuato	d hy at loc	net 20 d	R relative to	
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Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as mea with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in	 Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measurement the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition. Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 30 dB relative to 				01.							

3.6.16 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g_ANT 5

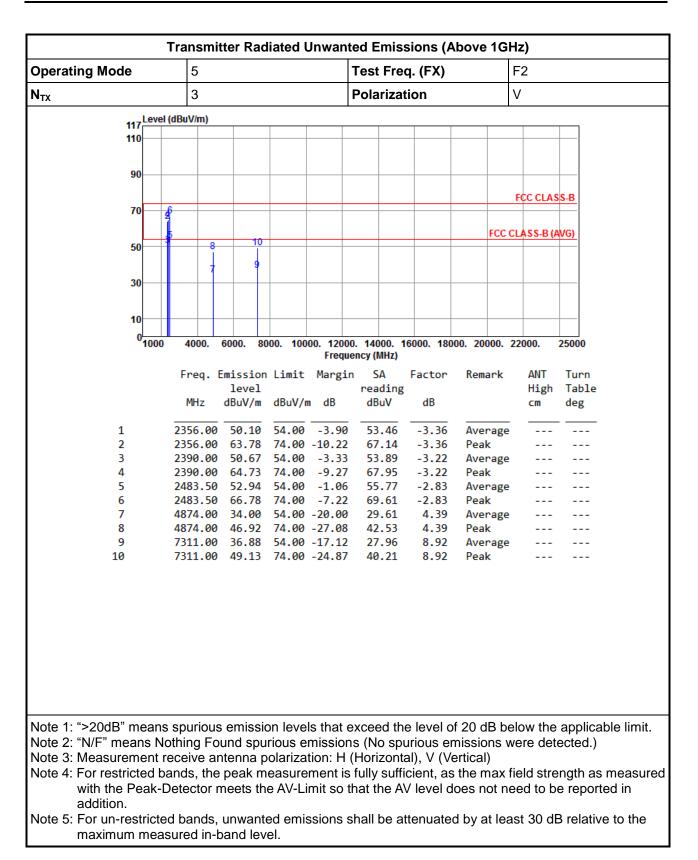






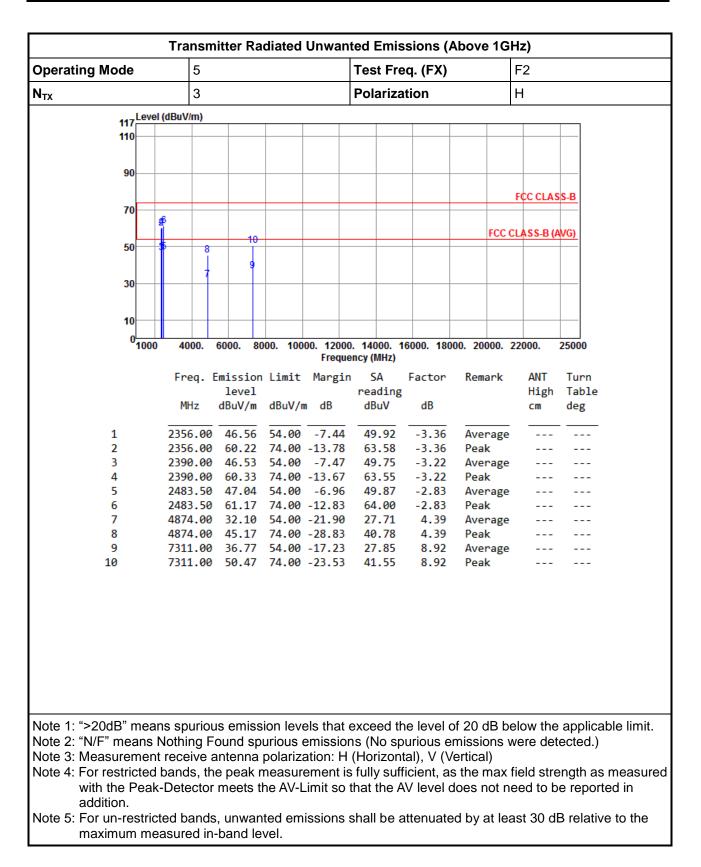






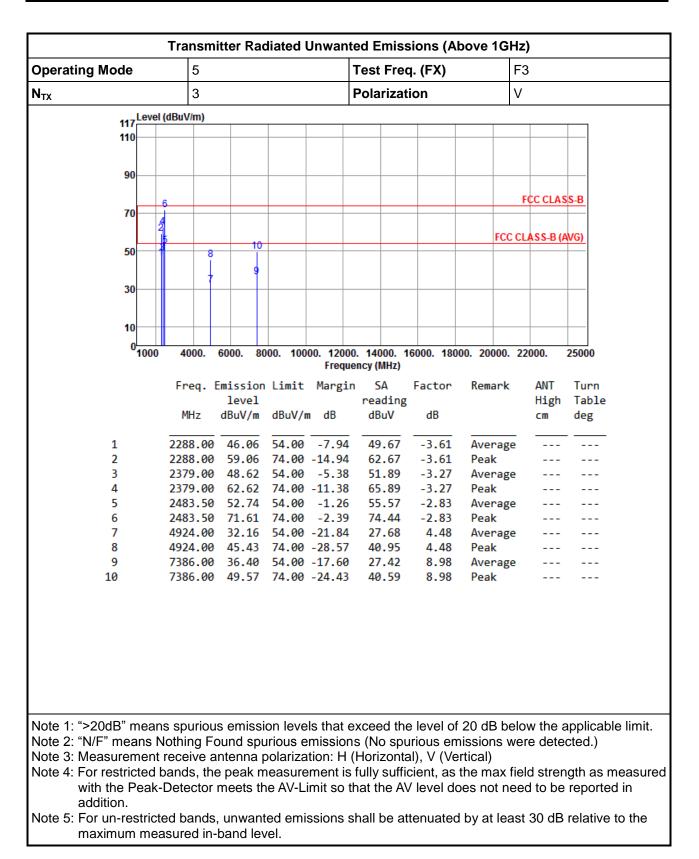






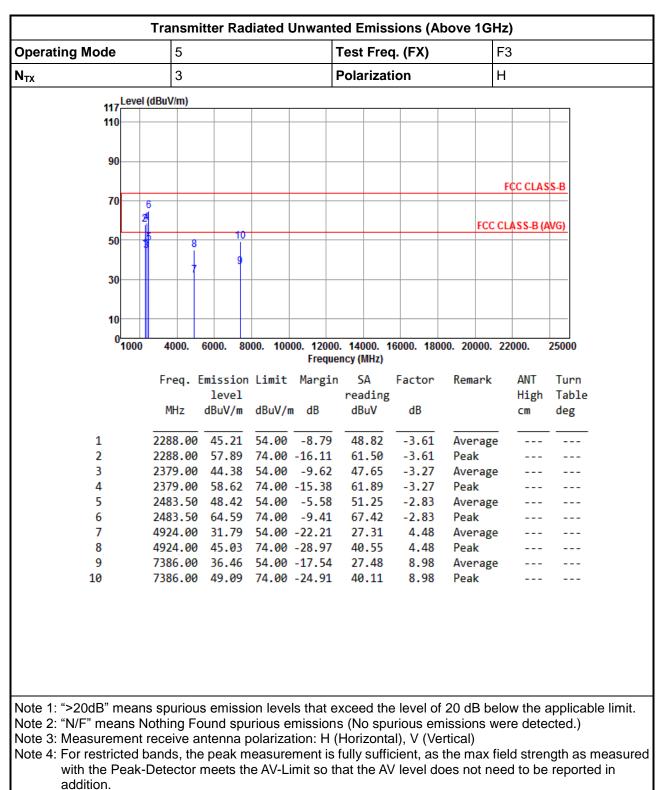






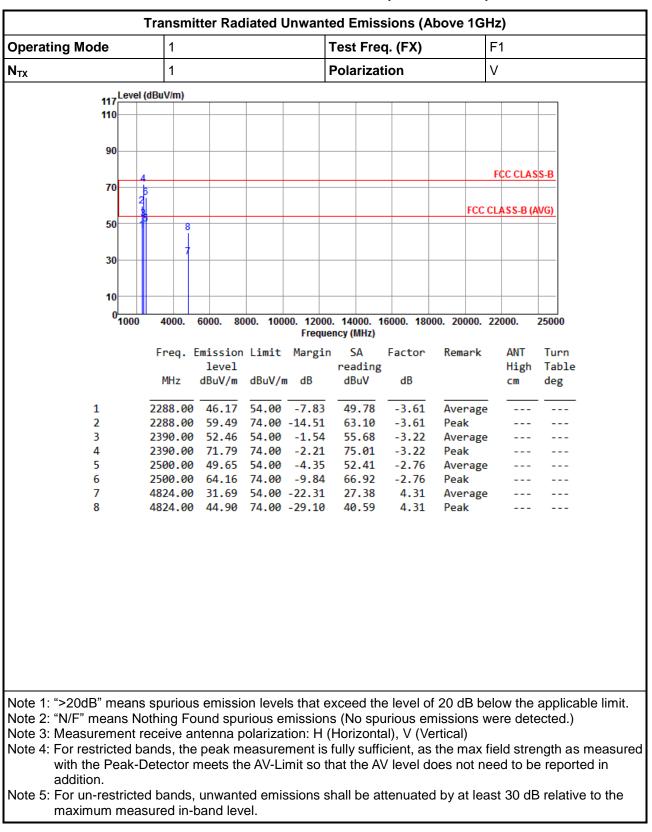






Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 30 dB relative to the maximum measured in-band level.





3.6.17 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-20_ANT 1

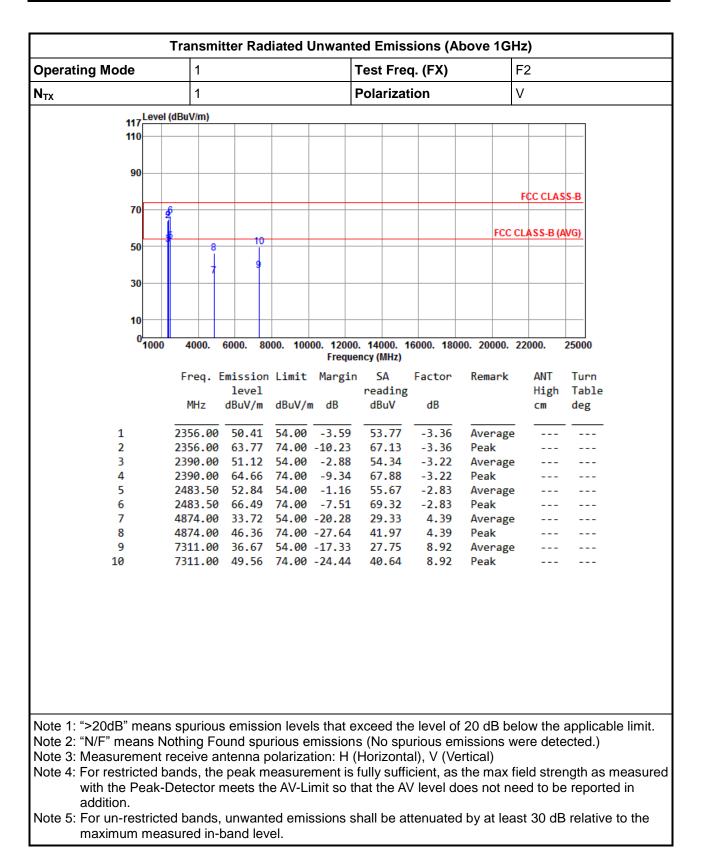




Operating M	lode	1				Test Fre	eq. (FX)		F1		
N _{TX}		1				Polariza	ation		Н		
	Leve	l (dBuV/m)									
	117										
	90										
	90										
									FCC CLAS	SS-B	
	70	4 2 ⁰									
		1						FCC	CLASS-B(AVG)	
	50	8									
		-									
	30									+	
	10									+	
	0 <mark></mark>						40000 400				
	1000	4000.	6000. 80	100. 100		0. 14000. ency (MHz)		000. 20000.	22000.	25000	
		Frea. H	Emission	Limit	Margi	n SA	Factor	Remark	ANT	Turn	
			level			readin			High	Table	
		MHz	dBuV/m	dBuV/r	n dB	dBuV	dB		cm	deg	
	1 2	2288.00 2288.00			-9.69 -16.18			Average Peak	2		
	2	2390.00						Average	· ···		
	4	2390.00		74.00				Peak			
	5	2500.00	46.28	54.00	-7.72	49.04	-2.76	Average	e		
	6	2500.00			-13.84			Peak			
	7	4824.00						Average	2		
	8	4824.00	44.89	74.00	-29.11	40.58	4.31	Peak			
Nata 4: "- 00	al D"		! !		la 41 4					an alla al la P	
										applicable li	mıt
Note 2: "N/F									were det	ectea.)	
Note 3: Mea									field stre	ngth as mea	1011
										e reported in	
addi											1
		ed bands.	unwant	ed emi	ssions s	shall be a	attenuate	d by at lea	ast 30 dE	B relative to t	the
	imum mea							.,			

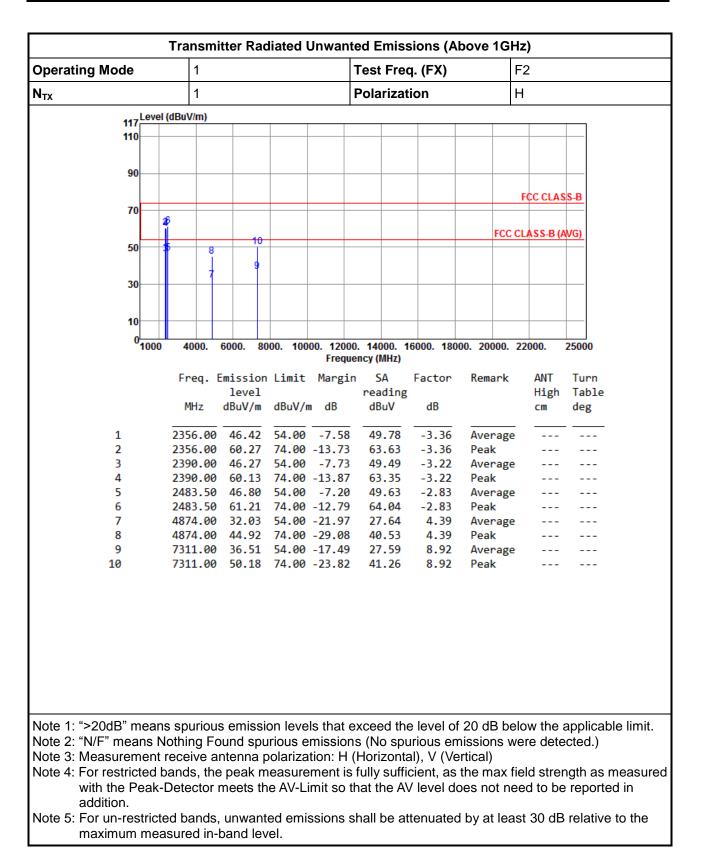






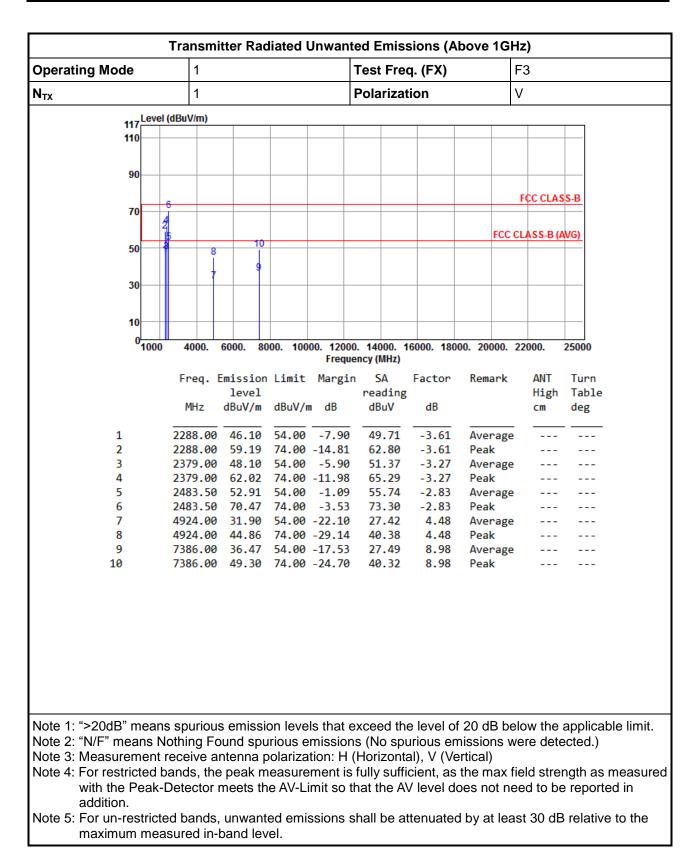


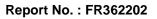




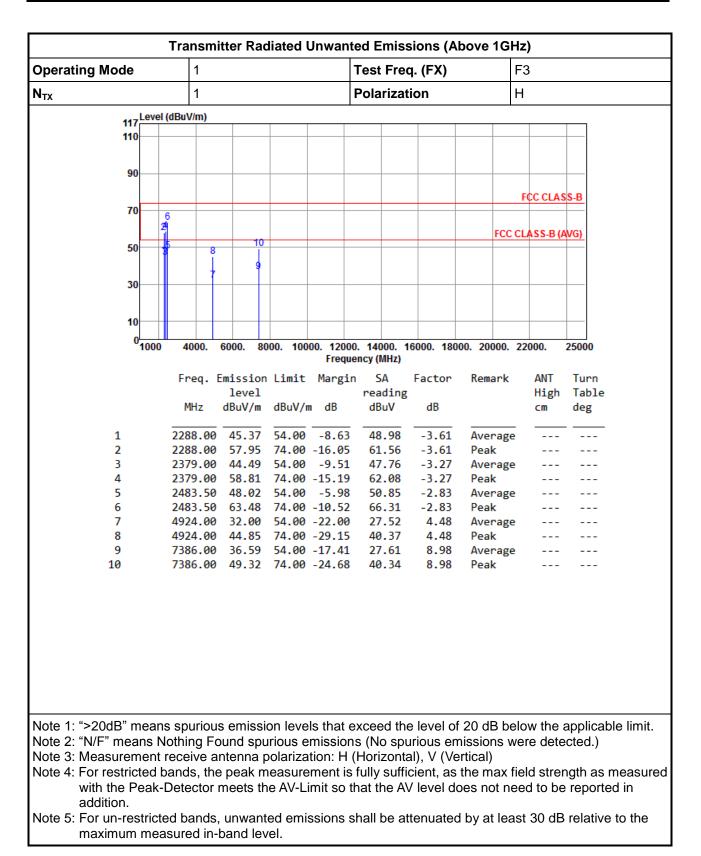




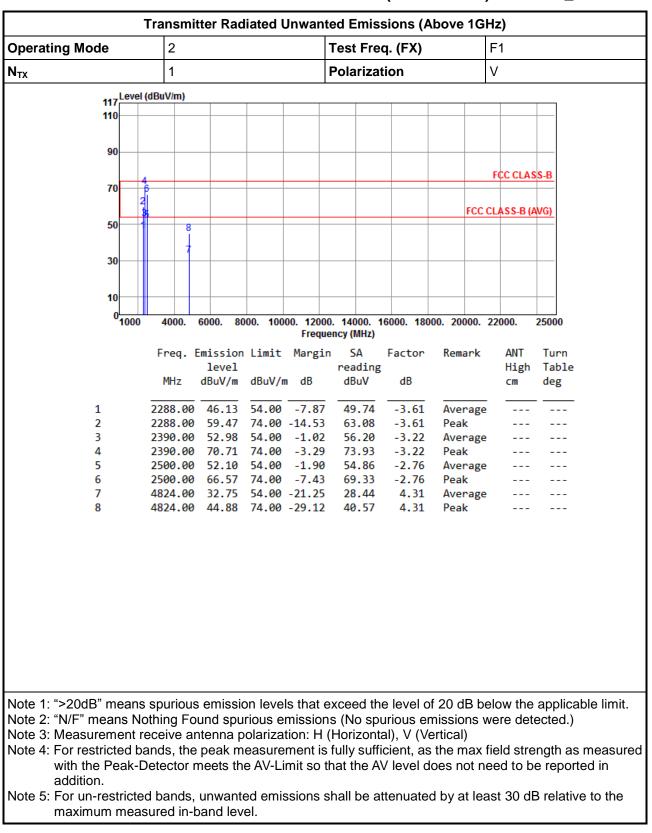








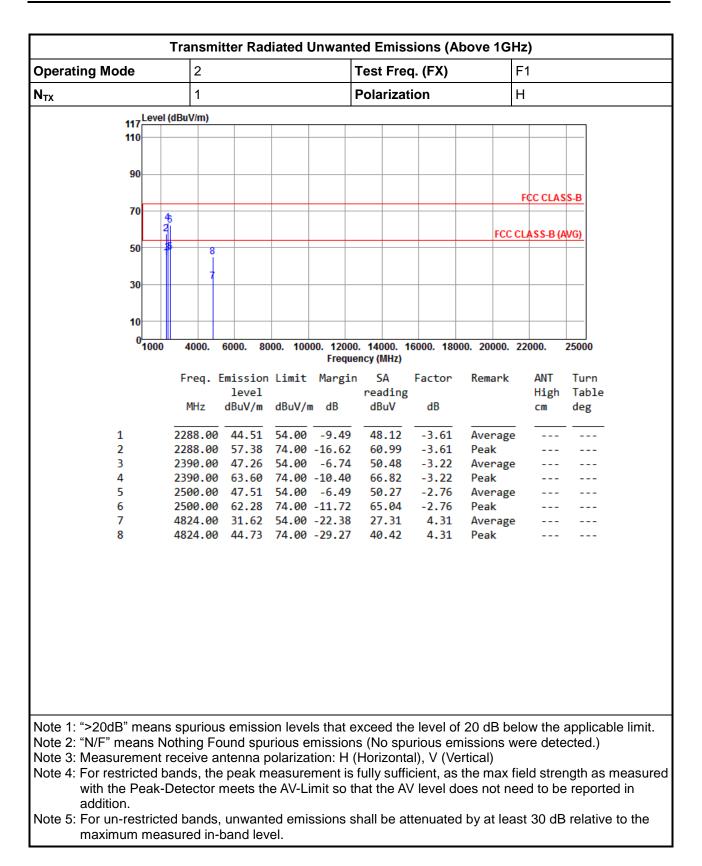


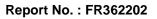


3.6.18 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-20_ANT 2

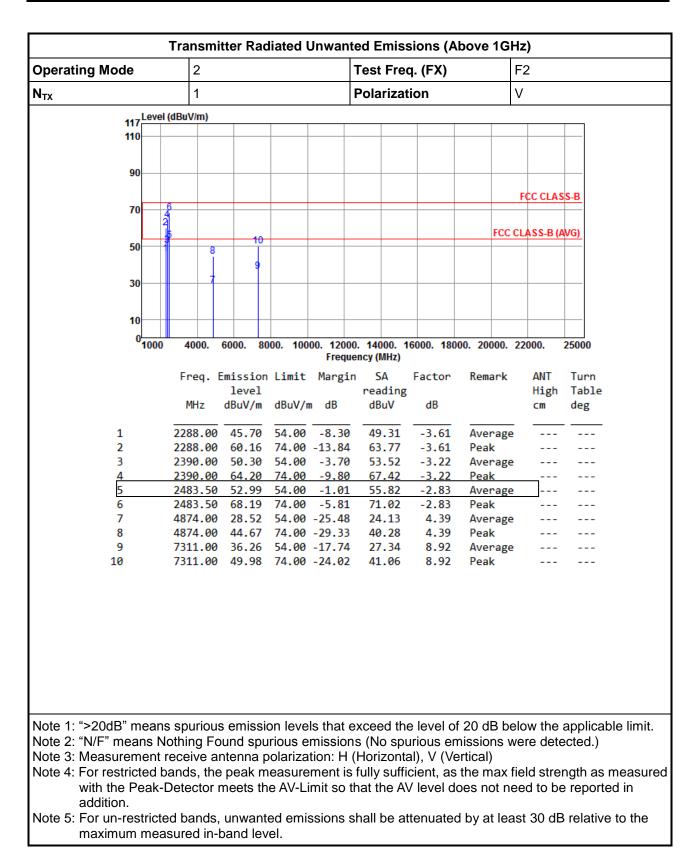


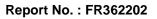




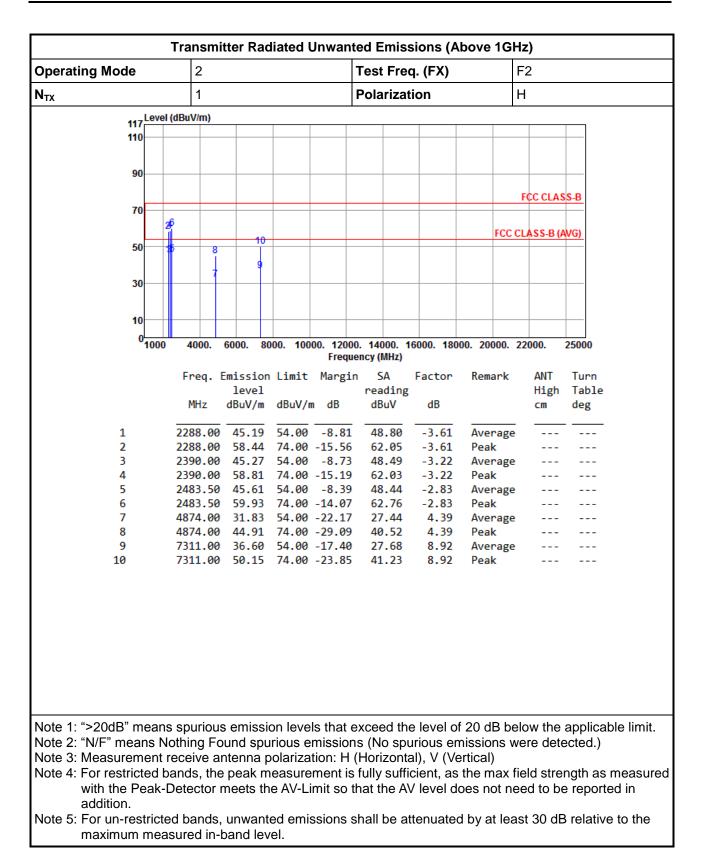






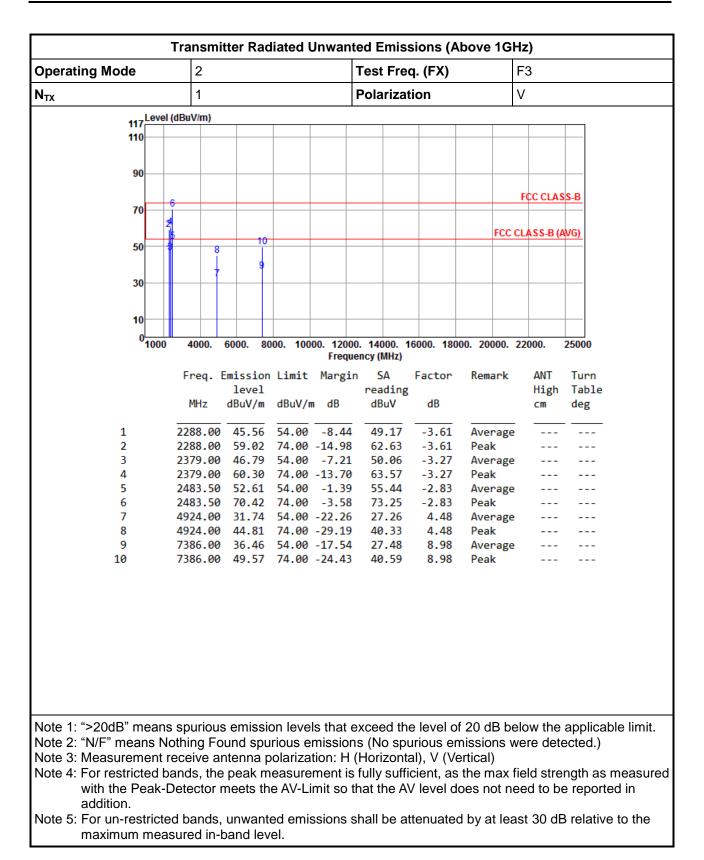
















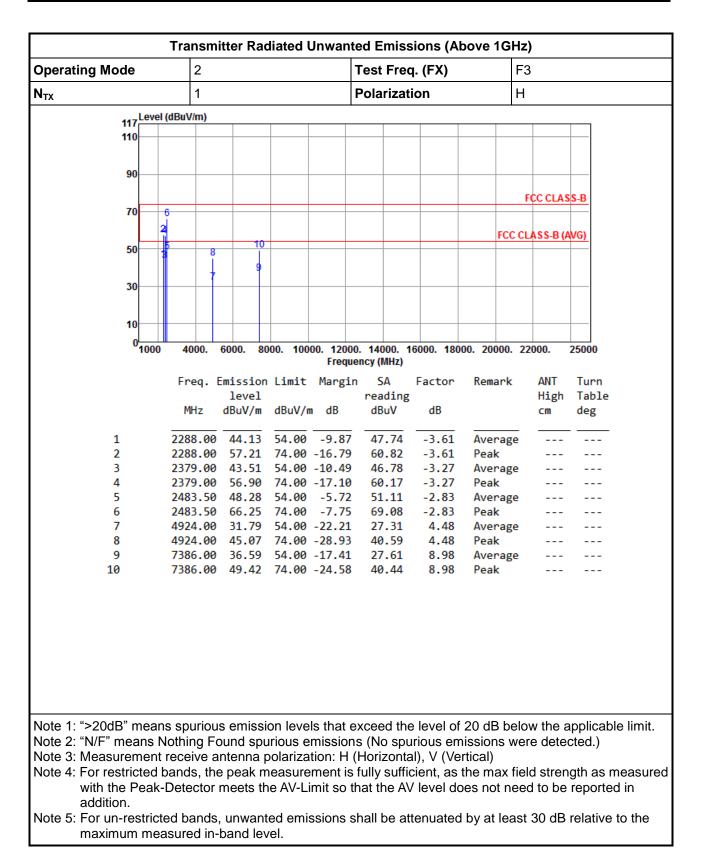


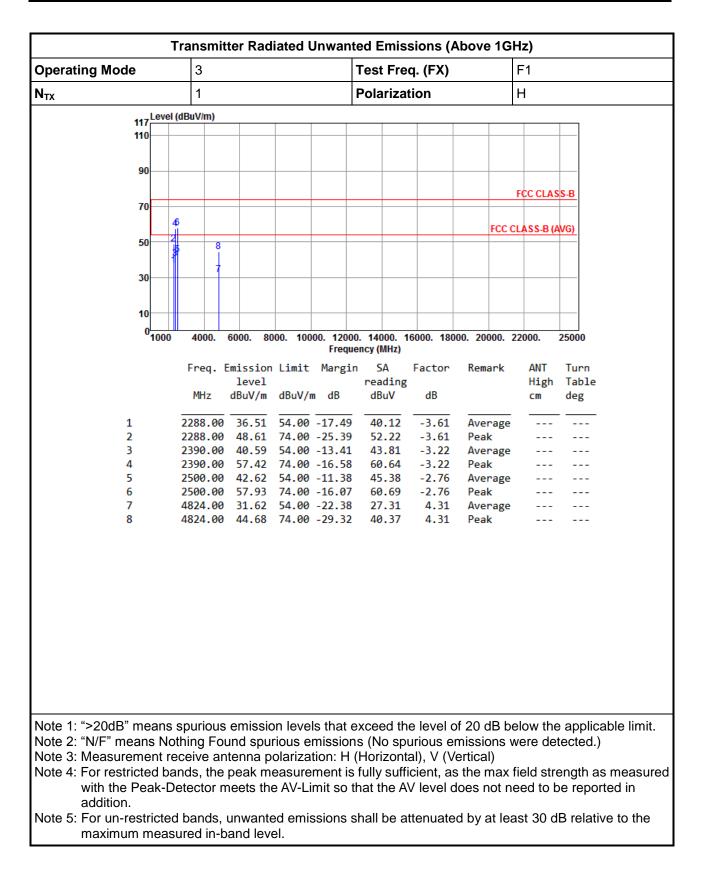


Image: Normal Science	Operating Mode	3			1	Fest Fre	q. (FX)		F	1	
Introduction of the second se	Ν _{τx}	1			1	Polarizat	tion		V	,	
110 90 70 70 70 70 70 70 70 70 70 7		(dBuV/m)									
90 4 FCC CLASS-B 70 8 FCC CLASS-B 30 7 8 90 7 7 90 7 7 90 7 7 90 7 7 7											
Image: constraint of the second se	110										
70 4 FCC CLASS-B 70 8 FCC CLASS-B (AVG) 70 7 7 70 8 7 70 7 7 70 8 7 70 7 7 70 8 7 70 7 8 70 7 7 70 8 7 70 7 7 70 8 7 7 7 7 7 7											
70 3 8 9	90										
70 8 70 FCC CLASS-B (AVG) 50 8 70 FCC CLASS-B (AVG) 30 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 7 7 7 10 1000 10000 10000 10000 10000 10000 10000 6000 10000 10000 10000 10000 10000 10000 60000 10000 10000 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>F</td> <td>CC CLAS</td> <td>S-B</td>									F	CC CLAS	S-B
50 8 7 8 7 10<	70	β									
50 8 7 1										ASS B (A	NG
30 7 10	50									A33-D (A	v oj
10 100 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 Freq. Emission Limit Margin SA Factor reading Factor reading Remark ANT Turn MHz dBuV/m dBuV/m dB dBuV dB cm deg 1 2288.00 47.10 54.00 -6.90 50.71 -3.61 Average 2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 <td></td> <td>Ĩ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Ĩ									
10 10 100 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000 25000 Freq. Emission Limit Margin SA Factor reading MHz dBuV/m dB UV/m dB dBuV dB Factor reading dBuV Remark ANT Turn High Table cm 1 2288.00 47.10 54.00 -6.90 50.71 -3.61 Average 2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 51.79 54.00 -2.21 54.55 -2.76 Average 5 2500.00 51.79 54.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -2.236 27.33 4.31 Average	20	7									
0 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 22000. 25000 Freq. Emission Limit Margin level SA reading Factor reading Remark High Table deg MHz dBuV/m dBuV/m dB dBuV dB cm deg 1 2288.00 47.10 54.00 -6.90 50.71 -3.61 Average 2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 51.79 54.00 -2.21 54.55 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average	30										
0 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 22000. 25000 Freq. Emission Limit Margin SA level Factor reading Remark ANT Turn MHz dBuV/m dB dBuV dB cm deg 1 2288.00 47.10 54.00 -6.90 50.71 -3.61 Average 2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 51.79 54.00 -2.21 54.55 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average <td></td>											
Freq. Emission Limit Margin SA level Factor reading memory Remark might Turn High Table memory MHz dBuV/m dBuV/m dB dBuV dB deg 1 2288.00 47.10 54.00 -6.90 50.71 -3.61 Average 2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average											
Frequency (MHZ) Freq. Emission Limit Margin level SA reading reading Factor Remark deg ANT Turn High Table deg MHz dBuV/m dBuV/m dB dBuV dB cm deg 1 2288.00 47.10 54.00 -6.90 50.71 -3.61 Average 2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average	0 <mark>0</mark> 0	4000.	6000. 80	00. 100	00. 12000	. 14000. 1	6000. 180	00. 200	00. 22	2000.	25000
level reading High Table MHz dBuV/m dBuV/m dB dBuV dB cm deg 1 2288.00 47.10 54.00 -6.90 50.71 -3.61 Average 2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00<-22.36											
MHz dBuV/m dBuV/m dB dBuV dB cm deg 1 2288.00 47.10 54.00 -6.90 50.71 -3.61 Average 2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average		Freq. I	Emission	Limit	Margin	SA	Factor	Rema	rk	ANT	Turn
1 2288.00 47.10 54.00 -6.90 50.71 -3.61 Average 2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average						reading				High	Table
2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average		MHz	dBuV/m	dBuV/r	n dB	dBuV	dB			cm	deg
2 2288.00 57.25 74.00 -16.75 60.86 -3.61 Peak 3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average	4	2200 00	47.40	<u></u>				-			
3 2390.00 52.60 54.00 -1.40 55.82 -3.22 Average 4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average									-		
4 2390.00 71.72 74.00 -2.28 74.94 -3.22 Peak 5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average											
5 2500.00 51.79 54.00 -2.21 54.55 -2.76 Average 6 2500.00 65.63 74.00 -8.37 68.39 -2.76 Peak 7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average									-		
7 4824.00 31.64 54.00 -22.36 27.33 4.31 Average											
	6	2500.00	65.63	74.00	-8.37	68.39	-2.76				
8 4824.00 44.89 74.00 -29.11 40.58 4.31 Peak											
	8	4824.00	44.89	74.00	-29.11	40.58	4.31	Peak			
	7	4824.00	31.64	54.00	-22.36	27.33	4.31	Aver	age		
lote 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applica									IS WE		ecieu.)
lote 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)									ax fie	eld stre	nath as
lote 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) lote 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)											
lote 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) lote 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) lote 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as							. 107010				- 10p0i
 lote 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) lote 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) lote 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as with the Peak-Detector meets the AV-Limit so that the AV level does not need to be report 											
lote 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)	Note 5: For un-restricte	ed bands.	unwante	ed emi	ssions sl	hall be at	ttenuate	d bv at	leas	t 30 dE	3 relativ

3.6.19 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-20_ANT 3

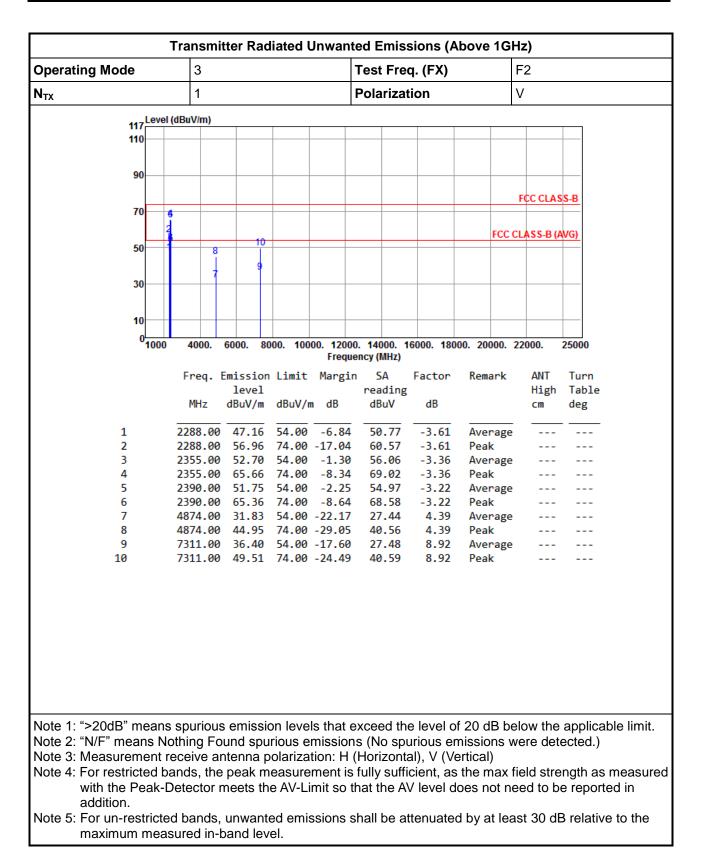






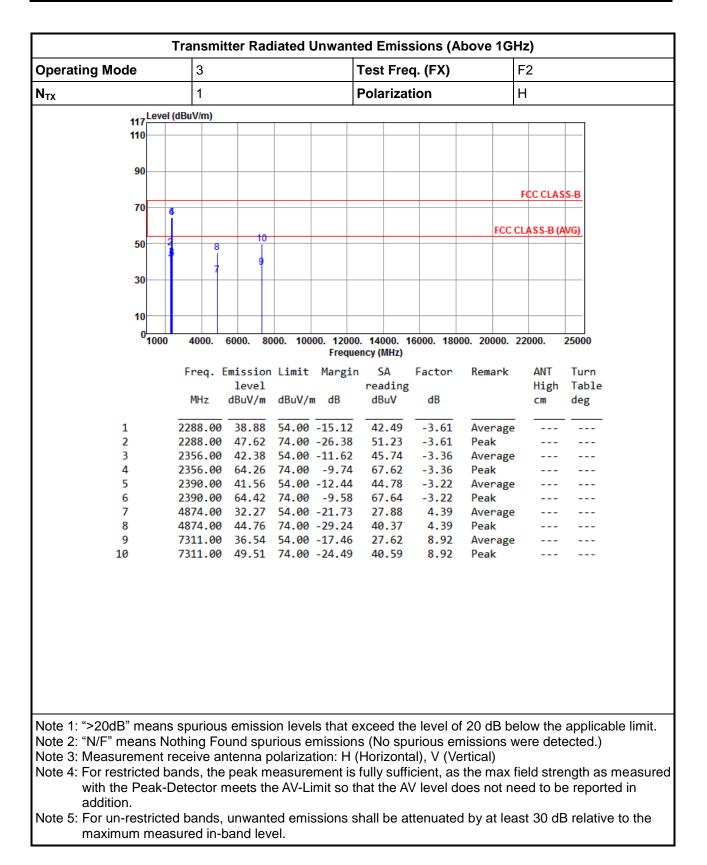






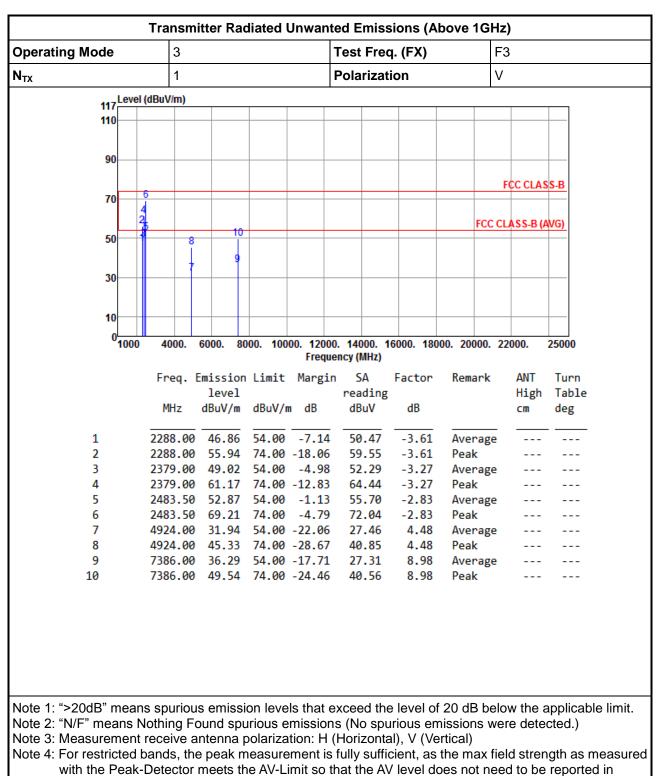








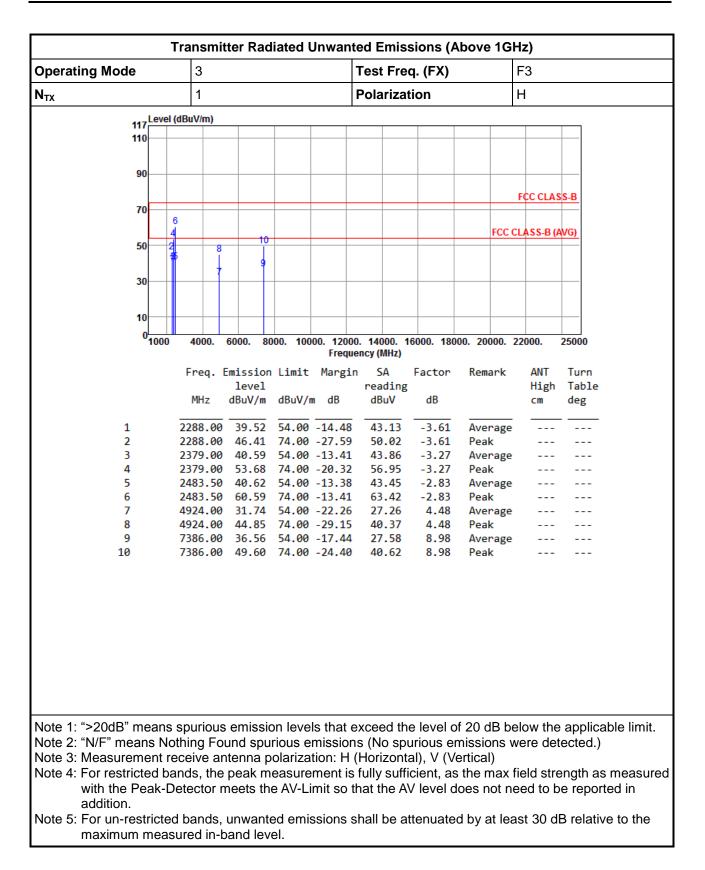




addition. Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 30 dB relative to the maximum measured in-band level.







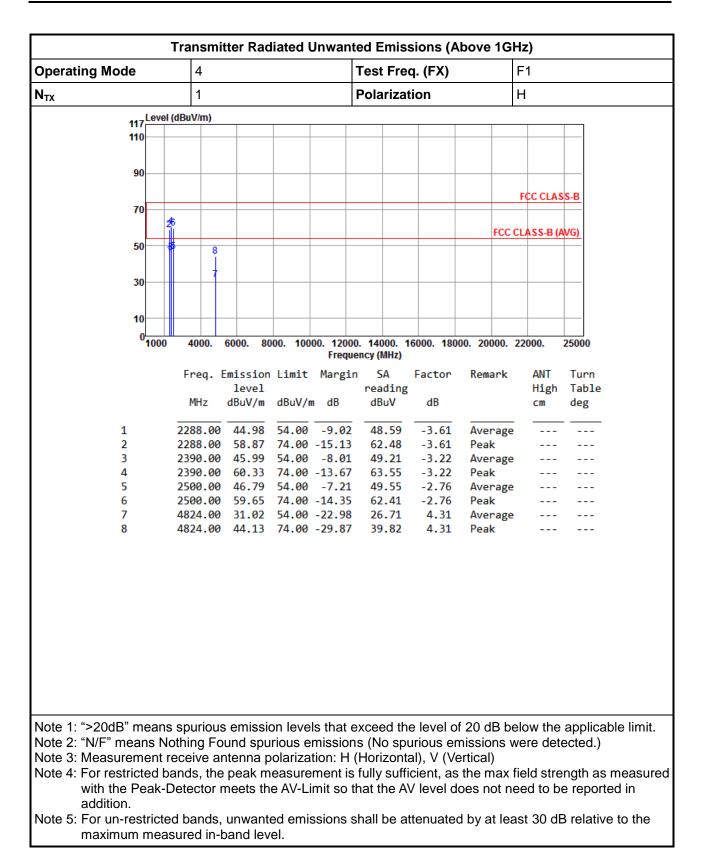


Operating Mode			4				Test Freq. (FX)				
N _{TX}	-	1				Polariza	• • •		V	-1 /	
	Lovol (d										
	17 Level (d	ibuv/ilij									
1	10										
	90										
										FCC CLAS	S-B
	70 40										
									FCC CI	LASS-B (A	WG)
	50	8									
		Ī									
	30	7									
	10										
	0 <mark>1000</mark>	4000.	6000. 80	00. 100			16000. 18	000. 20	000. 2	2000.	25000
						ency (MHz)		_			_
		Freq. t	mission level	Limit	Margin	SA readin	Factor	Rem	ark	ANT	Turn Table
		MHz	dBuV/m	dBuV/r	n dB	dBuV	g dB			High cm	deg
		11112	0000/1	ubuv/i		abav	ub			Cill	ueg
1		2288.00	52.19	54.00	-1.81	55.80	-3.61	Ave	rage		
2		2288.00	61.18		-12.82	64.79		Pea	k		
3		2390.00	52.60	54.00		55.82			rage		
4		2390.00		74.00		70.80					
5		2500.00				55.74 71.75		Peal	rage k		
7		4824.00			-22.84				rage		
8		4824.00			-30.12			Peal	-		
lote 1: ">20dB"	means	spurious	s emissio	on leve	ls that e	xceed t	ne level c	of 20 d	B bel	ow the	applica
lote 2: "N/F" me		•									
lote 3: Measure											
ote 4: For restr										eld stre	ngth as
							V level c				
addition.								-	-		1
lote 5: For un-re	estricted	bands.	unwante	ed emi	ssions s	hall be a	attenuate	d by a	t leas	t 30 dE	8 relativ
		,						,			

3.6.20 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-20_ANT 4

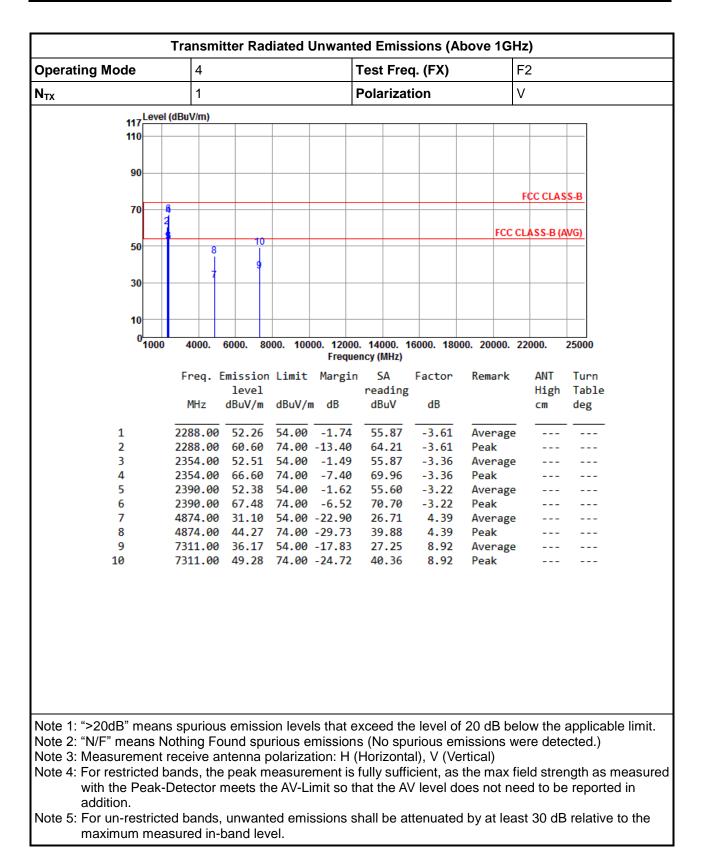






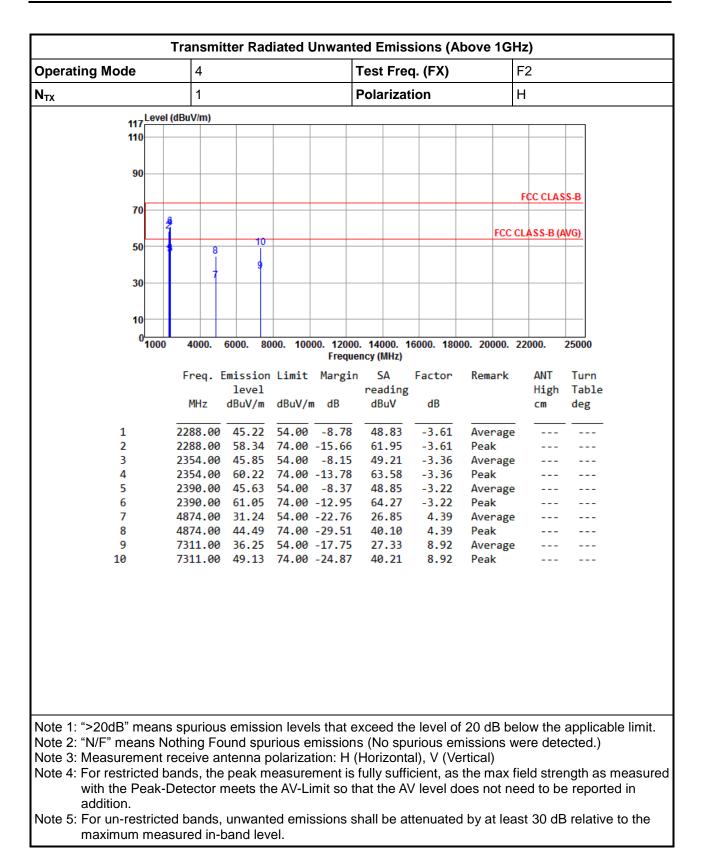






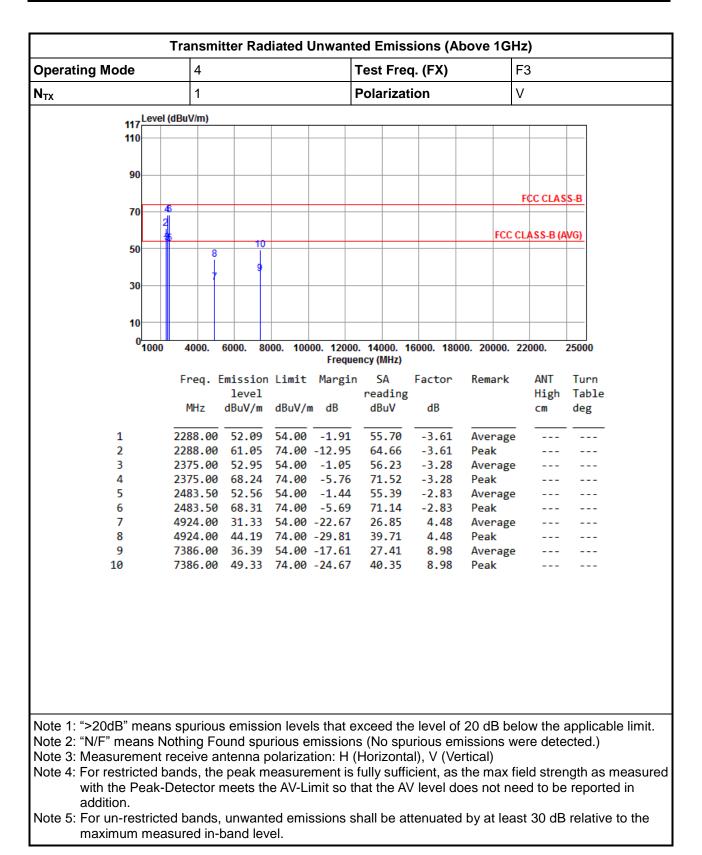






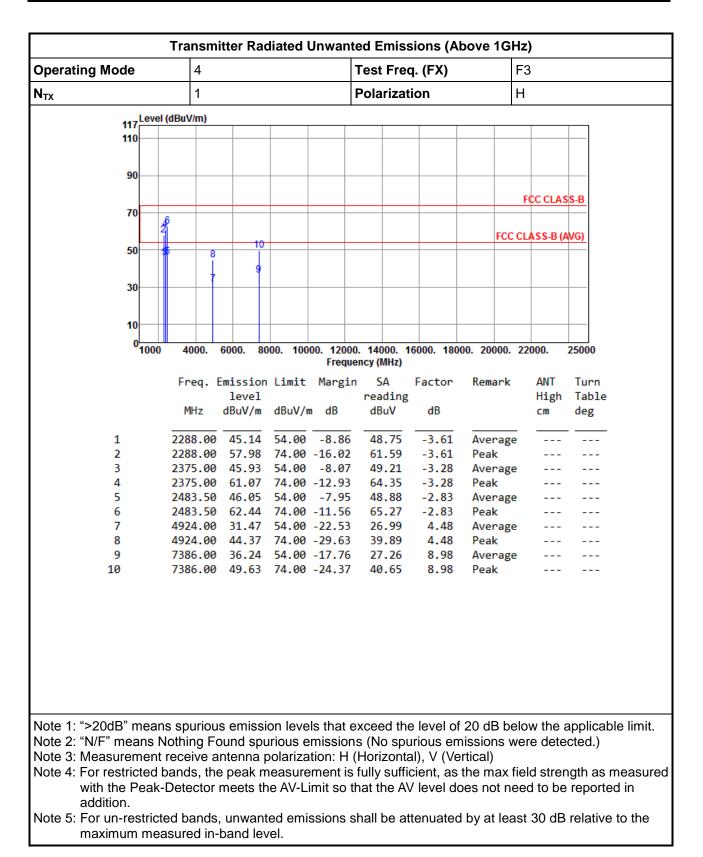












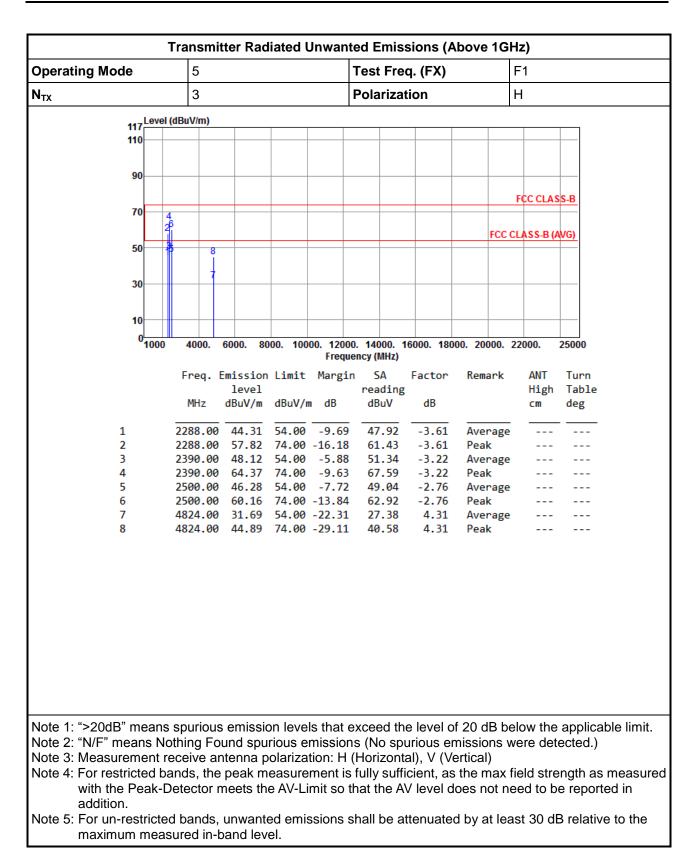


Operating Mode		5			-	Test Fre	eq. (FX)		I	-1		
Ν _{τχ}		3			1	Polariza	tion		١	/		
	Level	(dBuV/m)										
11	′											
	1											
	0											
5	0											
_		4								FCC CLAS	S-B	
1	0	6 A										
									FCC C	LASS-B (A	WG)	
5	0	8										
		-										
3	0											
1	0											
	0 <mark>1000</mark>	4000.	6000. 80	00 100	00 12000	14000	16000. 180	100 200	00 2	2000	25000	
	1000	4000.	0000. 00	. 100		ncy (MHz)	10000. 100	00. 200	. 2	2000.	23000	
		Freq.	Emission	Limit	Margin	SA	Factor	Rema	ark	ANT	Turn	
			level		_	reading	g			High	Table	
		MHz	dBuV/m	dBuV/ı	n dB	dBuV	dB			cm	deg	
1		2288 0	0 46.17	51 00	-7.83	49.78	-3.61	Aver	2000			
2		2288.0			-14.51	63.10	-3.61					
3		2390.0		54.00		55.68	-3.22	Aver				
4		2390.0	0 71.79	74.00	-2.21	75.01	-3.22	Peak	<u>ر</u>			
5		2500.0				52.41	-2.76		rage			
6 7		2500.0			-9.84 -22.31	66.92	-2.76 4.31	Peak				
8		4824.0 4824.0	0 31.69 0 44.90			27.38 40.59	4.31	Peak	rage			
Ŭ		4024.0		/4.00	20.10	40.55	4.51	i cui				
Note 1: ">20dB" n		enurio			le that a	vood th		yt 20 d	R ho	low tho	applicable li	imi
												IIII
Note 2: "N/F" mea Note 3: Measuren										ere del	ecieu.)	
Note 4: For restric										eld stre	enath as mea	121
											e reported in	
addition.												
Note 5: For un-res	tricte	d bands	, unwante	ed emi	ssions s	hall be a	attenuate	ed by a	t lea	st 30 dI	B relative to	the
maximum								,				-

3.6.21 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-20_ANT 5

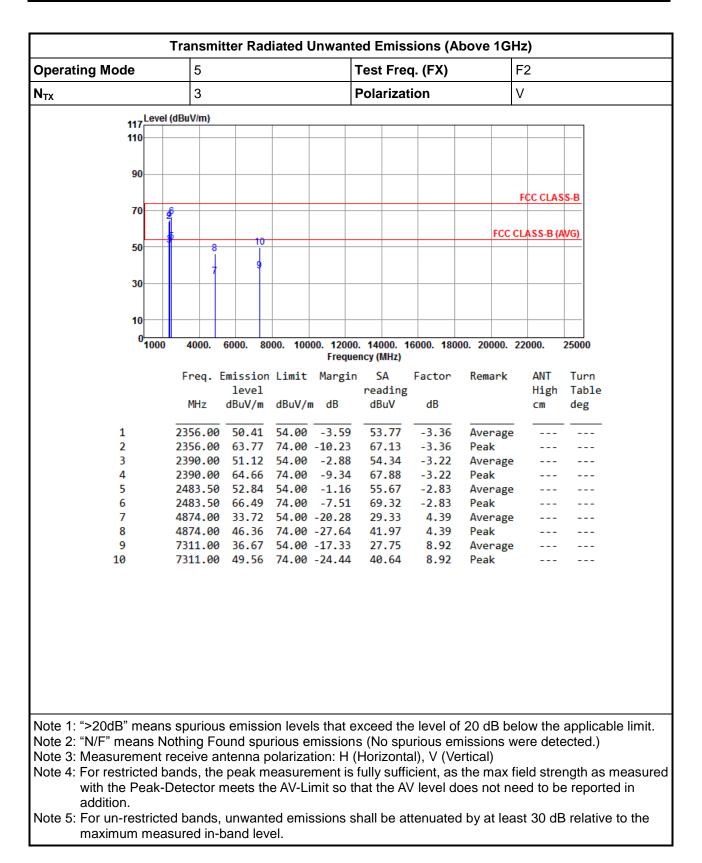






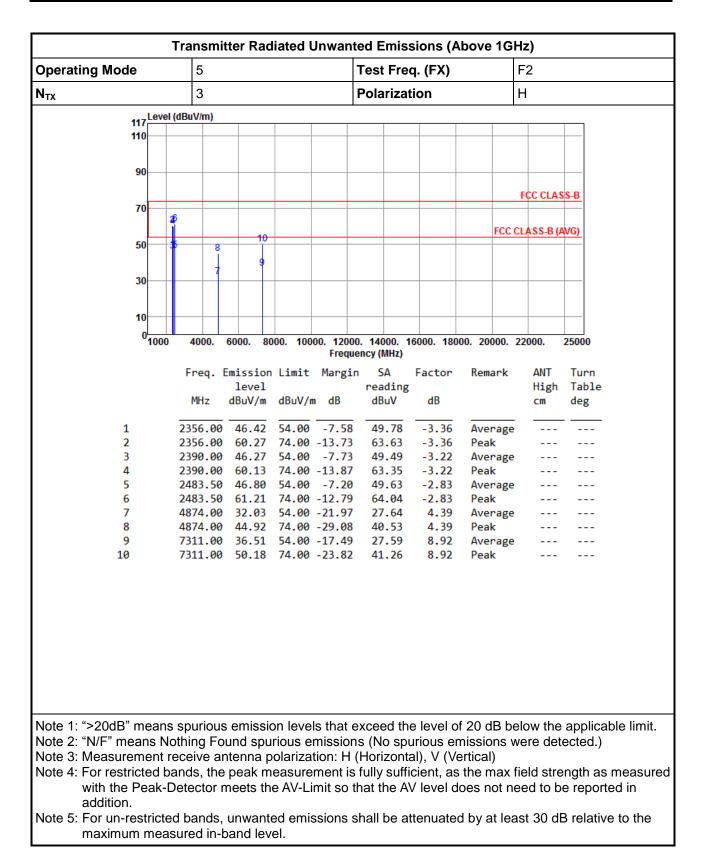






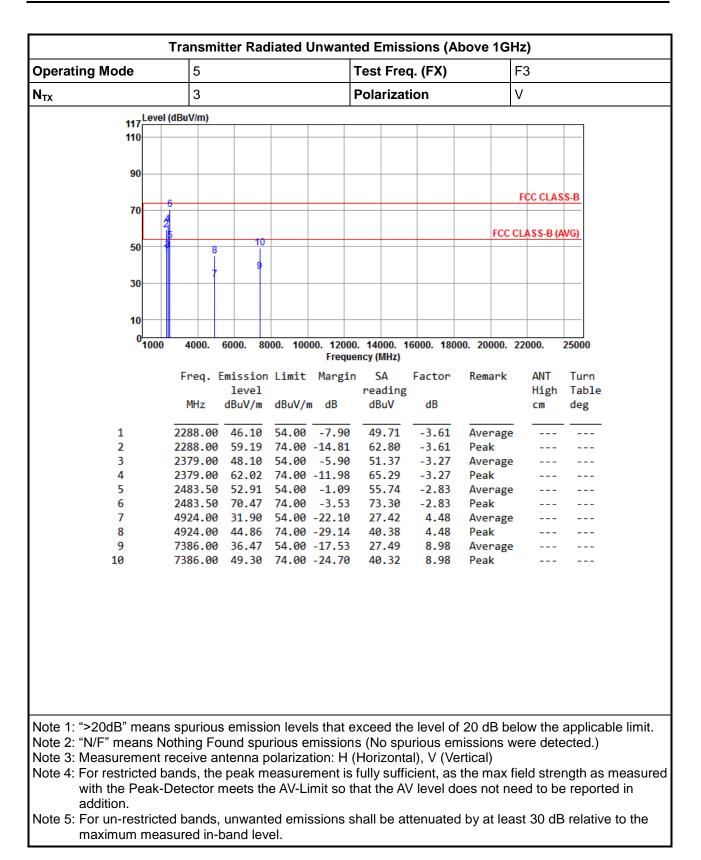










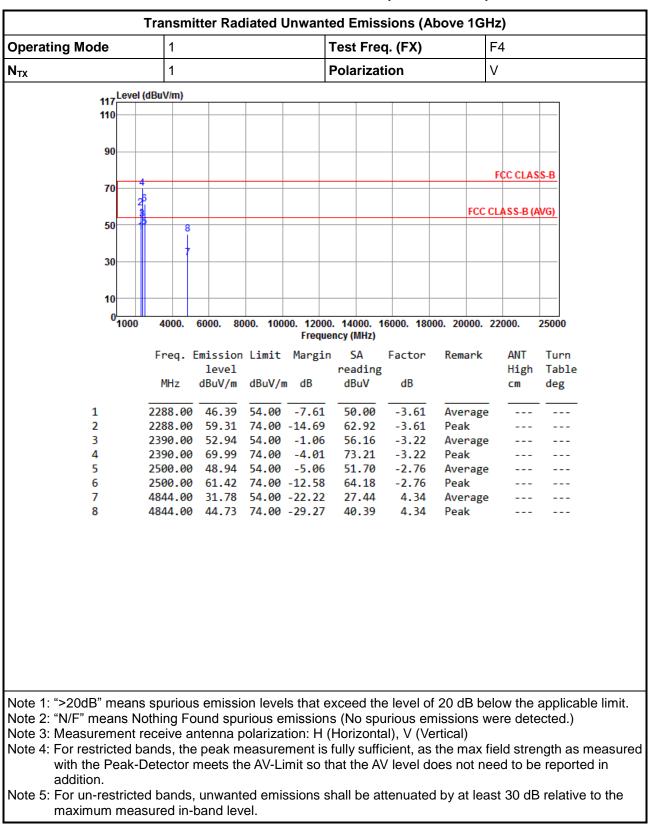




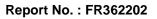


Operating Mode	•	5	5				q. (FX)		F3			
N _{TX}		3				Polariza	tion		н			
	Level (dBuV/m)										
11												
	0											
-	0								FCC CLA	SS-B		
'	0)										
	2	;						FCC	CLASS-B (AVG)		
5	0	8										
		†										
3	0											
1	0											
	⁰ 1000	4000.	6000. 80	00. 100			16000. 180	00. 20000.	22000.	25000		
						ency (MHz)						
		Freq.	Emission	Limit	Margi		Factor	Remark		Turn		
		MHz	level dBuV/m	dBuV/	m dB	reading dBuV	g dB		High cm	Table deg		
		11112	ubuv/m	ubuv/	u ub	ubuv	ub		Cill	ueg		
1		2288.00	45.37	54.00	-8.63	48.98	-3.61	Averag	e			
2		2288.00			-16.05	61.56	-3.61	Peak				
3		2379.00 2379.00		54.00		47.76	-3.27	Averag	e			
4 5		2483.50		54.00	-15.19	62.08 50.85	-3.27 -2.83	Peak Averag	e			
6		2483.50			-10.52		-2.83	Peak				
7		4924.00	32.00	54.00	-22.00	27.52	4.48	Averag	e			
8		4924.00			-29.15		4.48	Peak				
9		7386.00			-17.41		8.98	Averag	e			
10		7386.00	49.32	74.00	-24.68	40.34	8.98	Peak				
Note 1: ">20dB"	means	s spuriou	s emissi	on leve	els that e	exceed th	e level of	f 20 dB b	elow the	applicable lim		
Note 2: "N/F" me												
Note 3: Measure										,		
Note 4: For restr	icted b	ands, the	e peak n	neasure	ement is	fully suff	icient, as	the max				
	Peak-D	Detector	meets th	ne AV-L	imit so f	hat the A	V level de	oes not n	eed to be	e reported in		
addition.												
Note 5: For un-re					ssions s	shall be a	ttenuated	d by at lea	ast 30 dB	s relative to th		
maximur	n meas	sured in-	band lev	/el.								

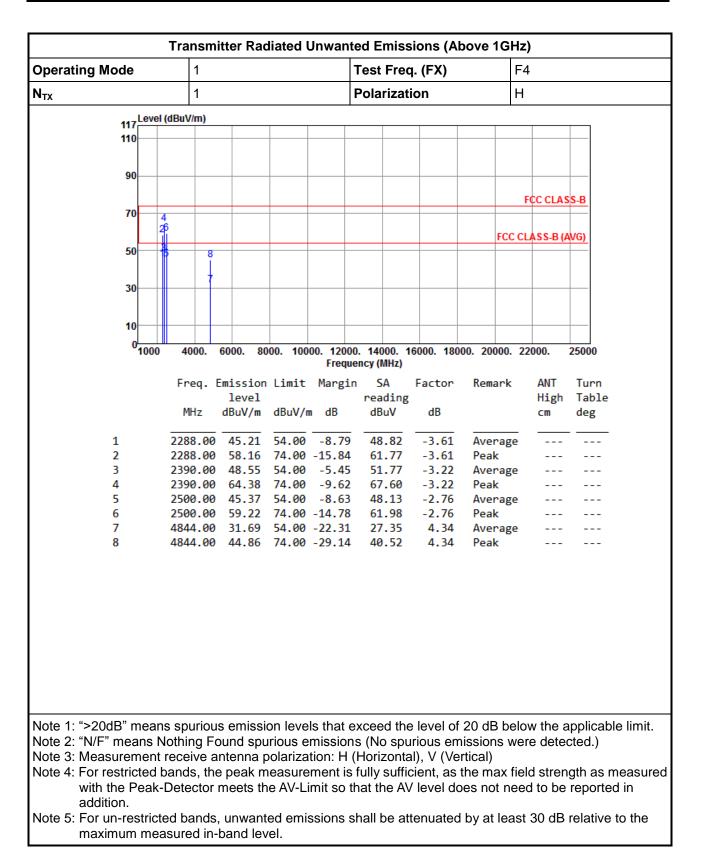




3.6.22 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-40_ANT 1

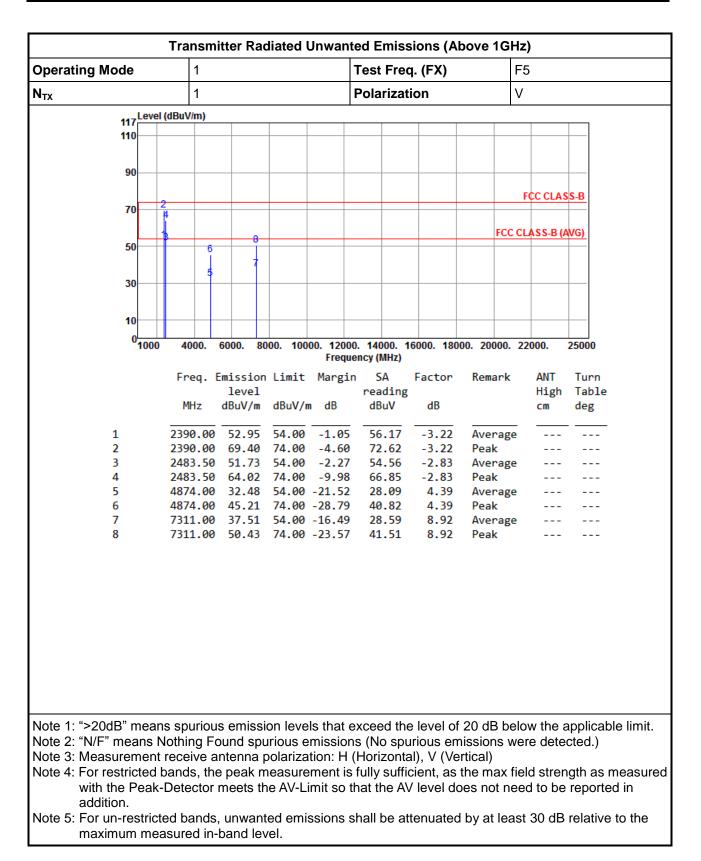








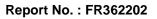




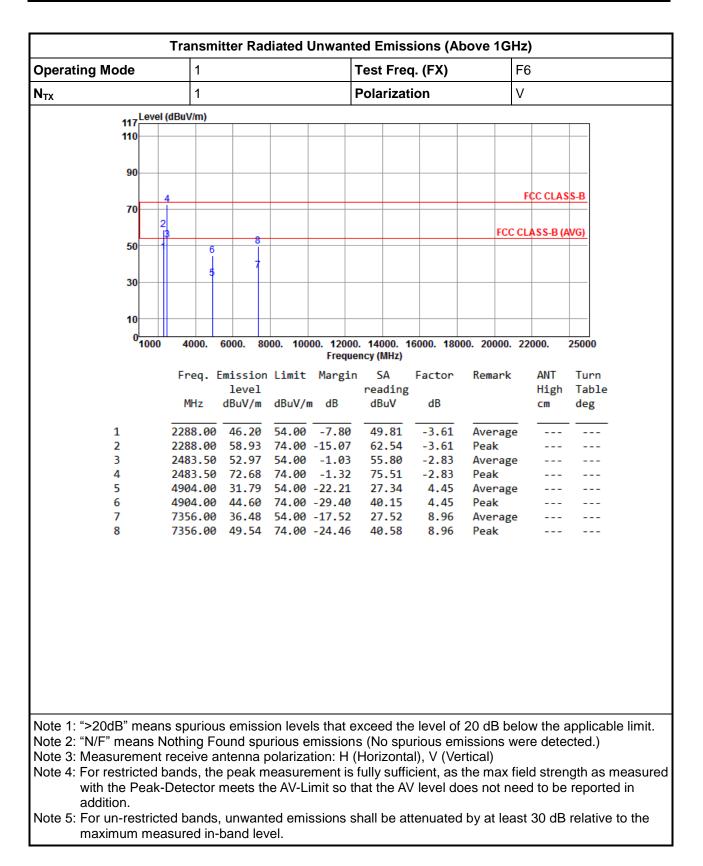




Operating	g Mode	1			-	Test Fre	q. (FX)		F5	
Ντχ	-	1				Polarizat	tion		н	
	Love	l (dBuV/m)								
	110									
	90									
									FCC CLA	SS-B
	70	~								
		24						FCO	CLASS-B (AVG)
	50	1 (5 1							
			1							
	30									
	10									
	0 <mark>1000</mark>	4000.	6000. 8	000. 100			6000. 180	00. 20000.	22000.	25000
		_			-	ncy (MHz)	-	- ·		-
		Freq.	Emissior level	n Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
		MHz	dBuV/m	dBuV/	m dB	dBuV	dB		ст	deg
		1112	000071	4541/1		abav	ab		Cill	uce.
	1	2390.0	0 46.91	54.00	-7.09	50.13	-3.22	Averag	e	
	2	2390.0			-14.03	63.19	-3.22	Peak		
	3	2483.5			-6.46	50.37	-2.83	Averag	e	
	4 5	2483.5	0 60.17 0 32.30		-13.83	63.00 27.91	-2.83 4.39	Peak		
	6		0 45.12			40.73	4.39	Averag Peak	e	
	7		0 37.55			28.63	8.92	Averag	e	
	8	7311.0	0 49.90	74.00	-24.10	40.98	8.92	Peak		
										applicable lir
	V/F" means N								were det	ected.)
	easurement								field atra	nath as mas
										ength as meas e reported in
	ddition.	Delector	เกษยเร แ	IS AV-L	11111 SO II	iat the A		062 1001	ieeu lo D	e reported in
		ed bands	s. unwant	ed emi	ssions s	hall be at	ttenuate	d by at le	ast 30 dl	B relative to the
	aximum mea							. ,		





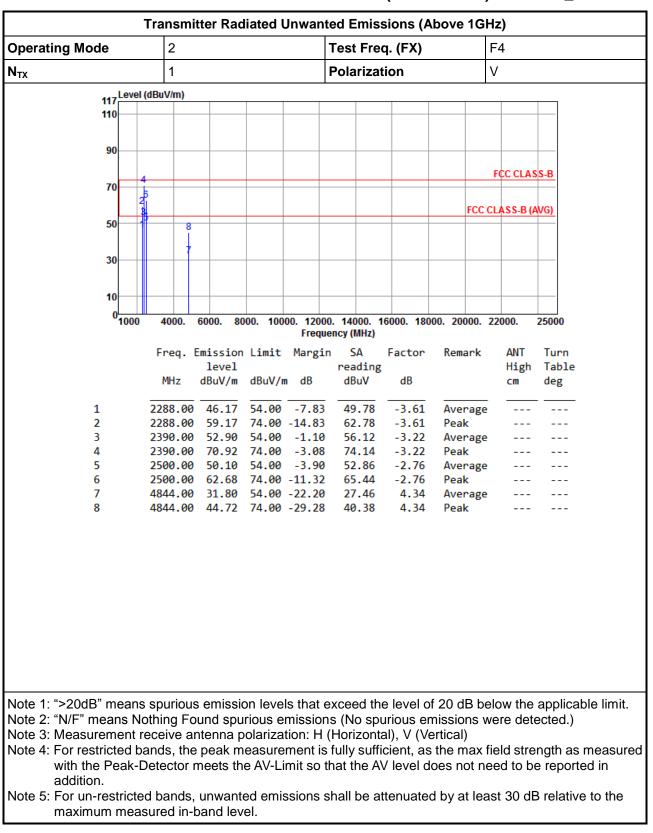






Operating Mode	1				Test Fre	q. (FX)		F6	
N _{TX}	1				Polariza	tion		н	
117	IBuV/m)			I					
117									
110									
90									
								FCC CLAS	SS-B
70 4									
2							FCC	CLASS-B (AVG)
50 3	6	8							
		1							
30									
10									
0 <mark>001000</mark>	4000.	6000. 80	00. 100		0. 14000. ency (MHz)	16000. 180	00. 20000.	22000.	25000
						. .			-
	Freq. 1	mission level	Limit	Margi	n SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/n	n dB	dBuV	dB		cm	deg
	2288.00	45.16	54.00	-8.84	48.77	-3.61	Averag	e	
	2288.00		74.00			-3.61	Peak		
	2483.50					-2.83	Averag	e	
	2483.50 4904.00		74.00 54.00			-2.83 4.45	Peak Averag	 0	
	4904.00					4.45	Peak		
		36.44				8.96	Averag	e	
8	7356.00	49.57	74.00	-24.43	40.61	8.96	Peak		
Note 1: ">20dB" means Note 2: "N/F" means No	thing Fo	ound spu	irious e	missior	ns (No sp	urious er	nissions		
Note 3: Measurement re Note 4: For restricted ba with the Peak-D	inds, the	e peak m	easure	ment is	fully suff	icient, as	the max		
addition. Note 5: For un-restricted maximum meas				ssions s	shall be a	ttenuated	d by at le	ast 30 dE	B relative to th

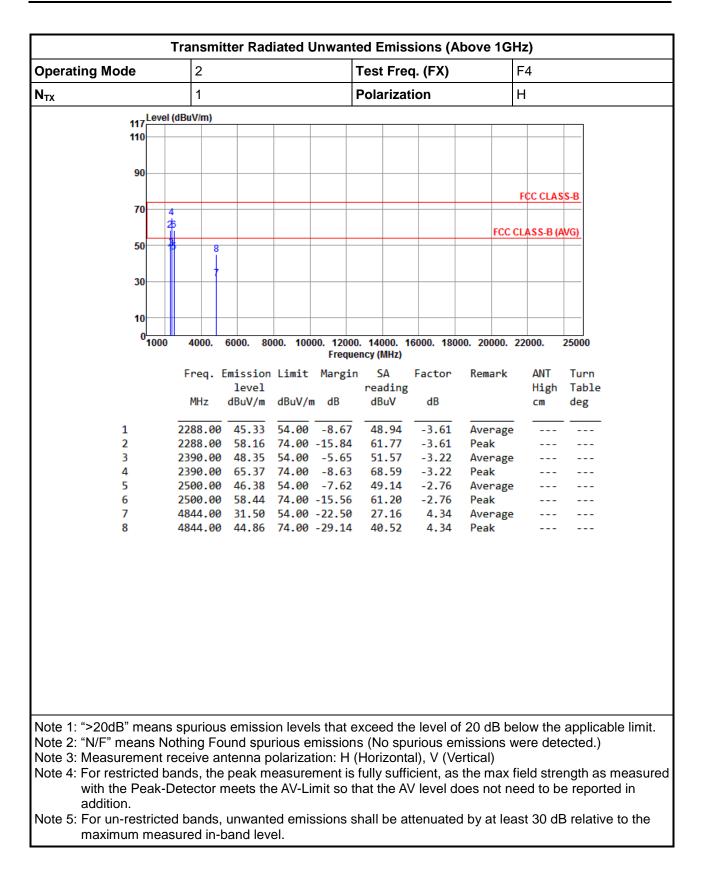




3.6.23 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-40_ANT 2







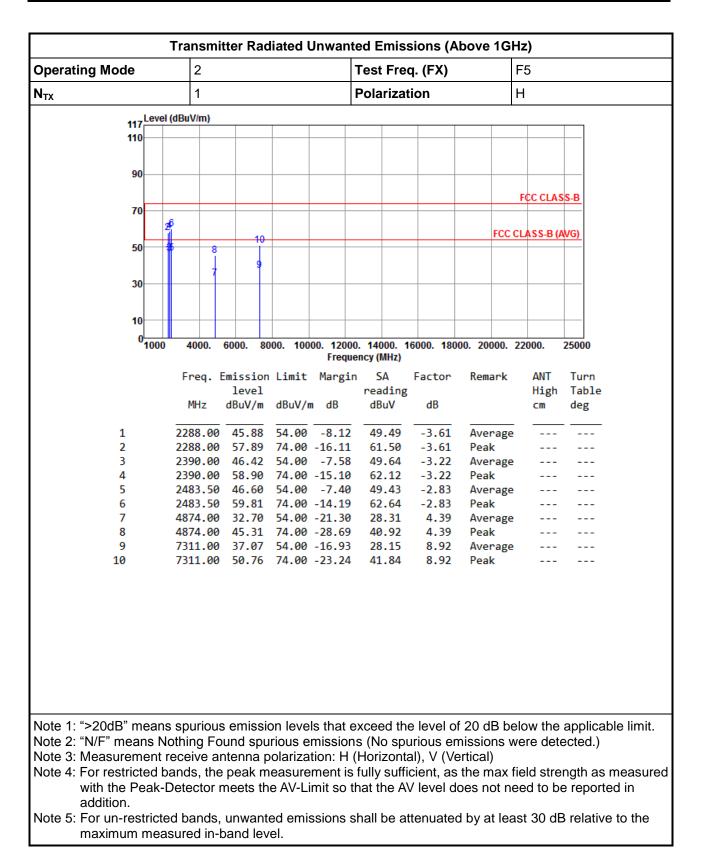


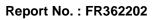


Operating Mode	2			Г	est Fre	q. (FX)		F5	
N _{TX}	1				Polarizat	,		V	
	(dBu)//m)								
117 Level	(ubuv/III)								
110									
90									
								FCC CLAS	S-B
70	ę –								
2	5	10					FCC	CLASS-B (A	VG)
50	8	10							
		9							
30	1								
10									
0									
°1000	4000.	6000. 80	00. 100		14000. 1 1cy (MHz)	6000. 180	00. 20000.	22000.	25000
	Freq.	Emission	Limit			Factor	Remark	ANT	Turn
		level			reading			High	Table
	MHz	dBuV/m	dBuV/r	n dB	dBuV	dB		CM	deg
1	2288.00	46.27	54.00	-7.73	49.88	-3.61	Average		
2	2288.00			-15.23	62.38	-3.61	Peak		
3	2390.00		54.00		53.50	-3.22	Average		
4	2390.00			-10.13	67.09	-3.22	Peak		
5	2483.50		54.00		55.68	-2.83	Average		
6 7	2483.50 4874.00		74.00	-8.23 -21.97	68.60 27.64	-2.83 4.39	Peak Average		
8	4874.00			-21.97	40.88	4.39	Peak		
9	7311.00			-17.26	27.82	8.92	Average		
10	7311.00	50.51	74.00	-23.49	41.59	8.92	Peak		
lote 1: ">20dB" means lote 2: "N/F" means No lote 3: Measurement ro lote 4: For restricted ba	othing Fo eceive a	und spui ntenna p	rious e olariza	missions tion: H (I	s (No spu Horizonta	urious er al), V (Ve	missions v ertical)	were det	ected.)
with the Peak-D									
addition. lote 5: For un-restricte									







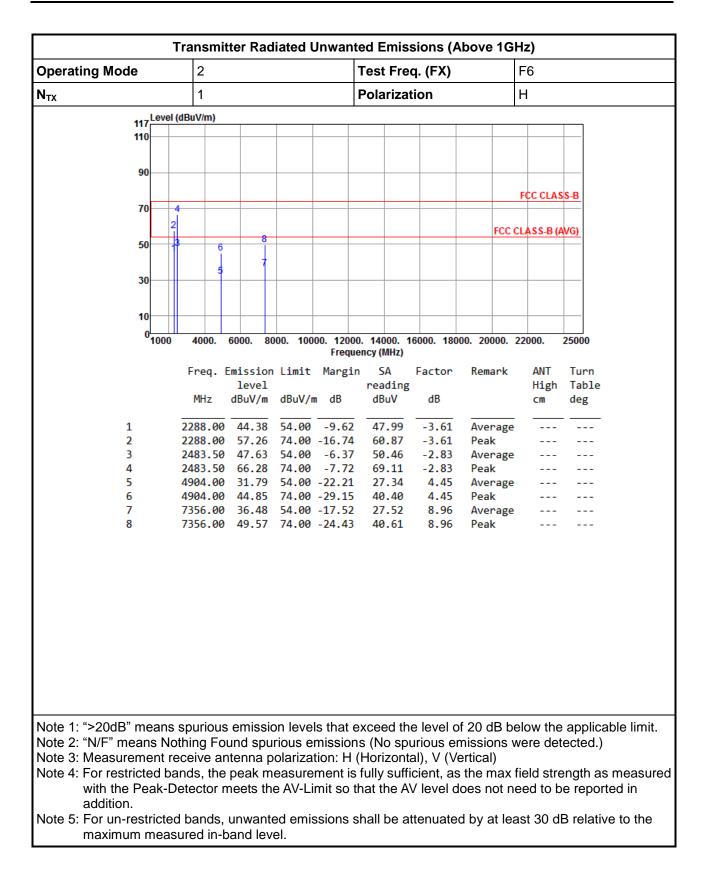




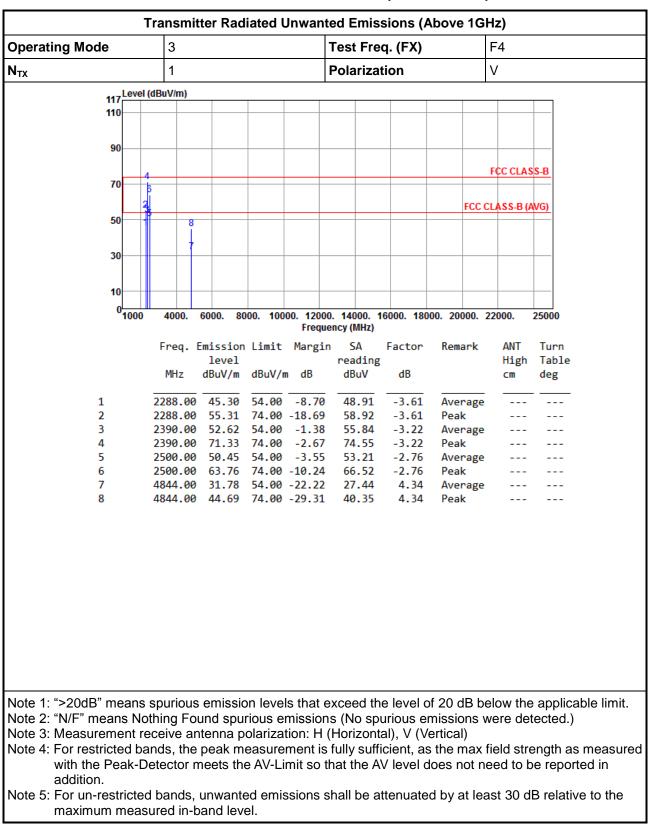
Operatin	g Mode	2			1	Test Fre	q. (FX)		F	-6		
N _{TX}		1			I	Polarizat	tion		۱ ۱	/		
	Leve	l (dBuV/m)										
	110											
	90											
										FCC CLAS	S.B	
	70	4								Teo orna		
	1	2										
	50	3	8						FCC C	LASS-B (A	WG)	
	50	6										
		5	1									
	30										<u> </u>	
	10											
	0									2000		
	0 <mark>1000</mark>	4000.	6000. 80	00. 100		. 14000. 1 ncy (MHz)	16000. 180	100. 200	00. 2	2000.	25000	
		Enor	Emission	limit	-		Factor	Rema	nk	ANT	Turn	
		iieq.	level	LIMIC	Hai grii	reading		Keine		High	Table	
		MHz	dBuV/m	dBuV/r	n dB	dBuV	dB			cm	deg	
	1	2288.00	46.03	54.00	-7.97	49.64	-3.61	Aver	age			
	2	2288.00			-14.37	63.24	-3.61	Peak				
	3	2483.50				55.80	-2.83	Aver	-			
	4	2483.50				74.28	-2.83	Peak				
	5	4904.00	44.82		-22.34	27.21 40.37	4.45 4.45	Aver Peak	-			
	7		36.34			27.38	8.96	Aver				
	8		49.55			40.59	8.96	Peak	<u> </u>			
	Ū	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	45.55	/	21113	40.55	0.00	, cui	•			
Note 1: ">	>20dB" mean	s spuriou	s emissio	on leve	Is that e	xceed th	e level o	f 20 dI	3 be	low the	applicable	lim
	V/F" means N											
	leasurement										,	
	or restricted b									eld stre	ngth as me	asi
	vith the Peak-											
	ddition.										•	
Note 5: F	or un-restrict	ed bands,	unwante	ed emi	ssions sl	hall be a	ttenuate	d by at	leas	st 30 dE	B relative to) the
	naximum mea											







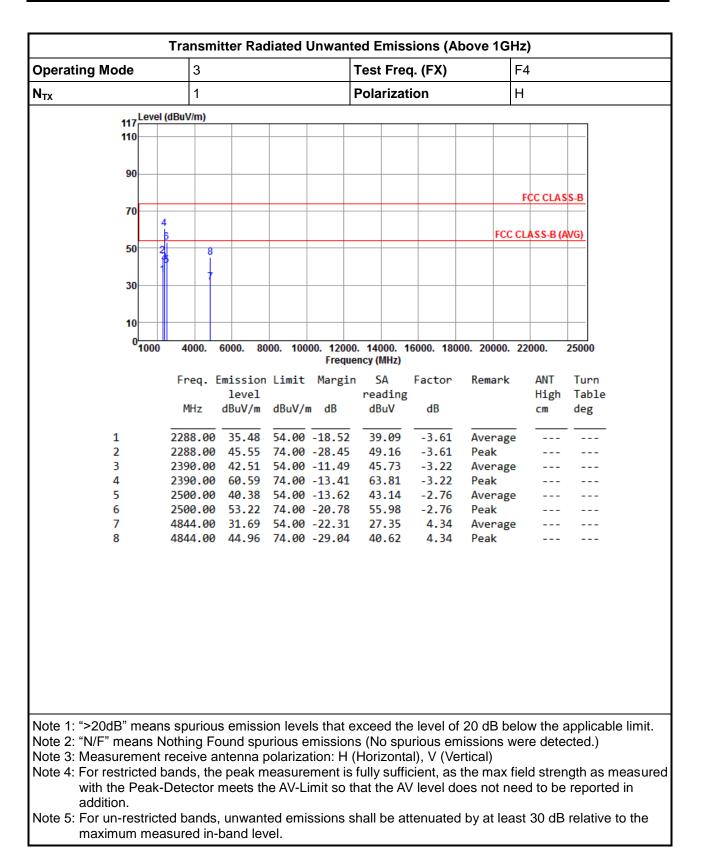




3.6.24 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-40_ANT 3

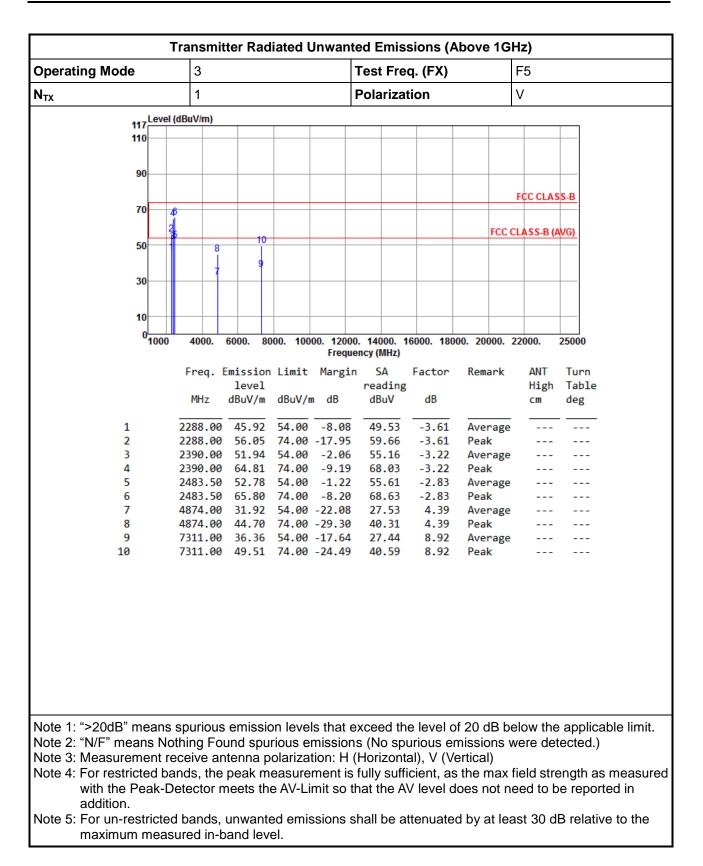






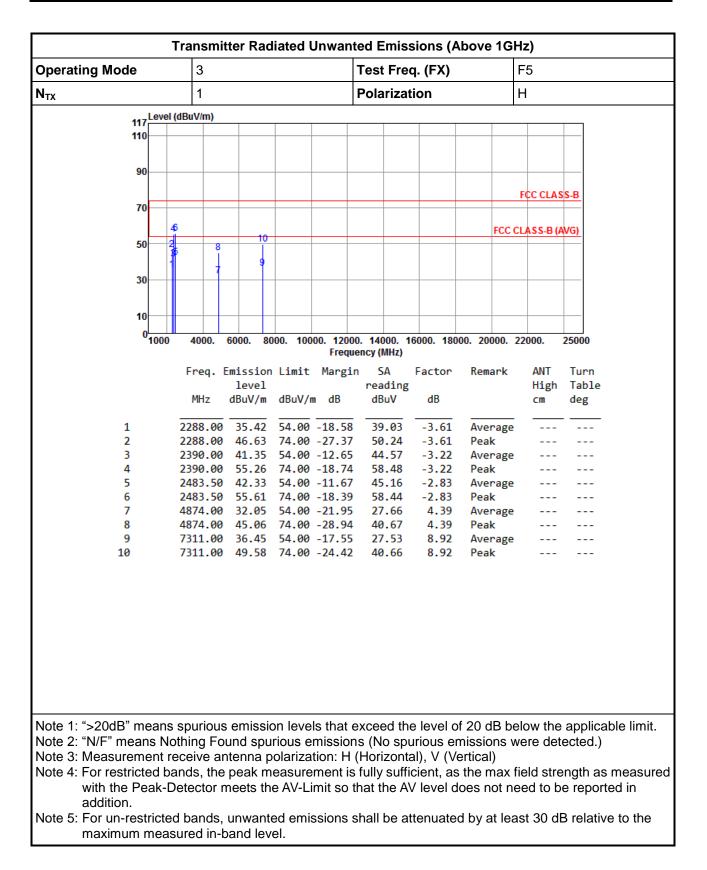






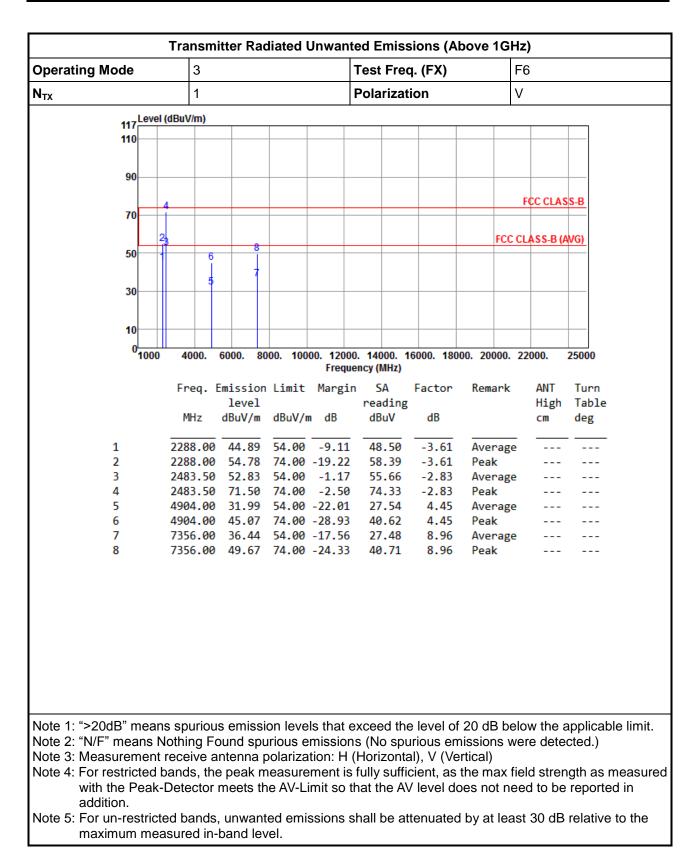






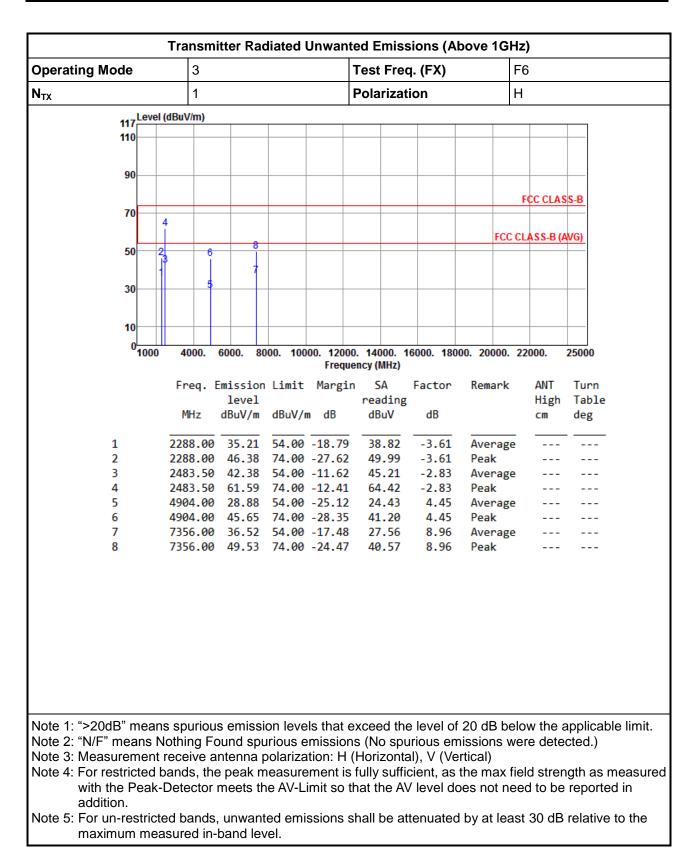












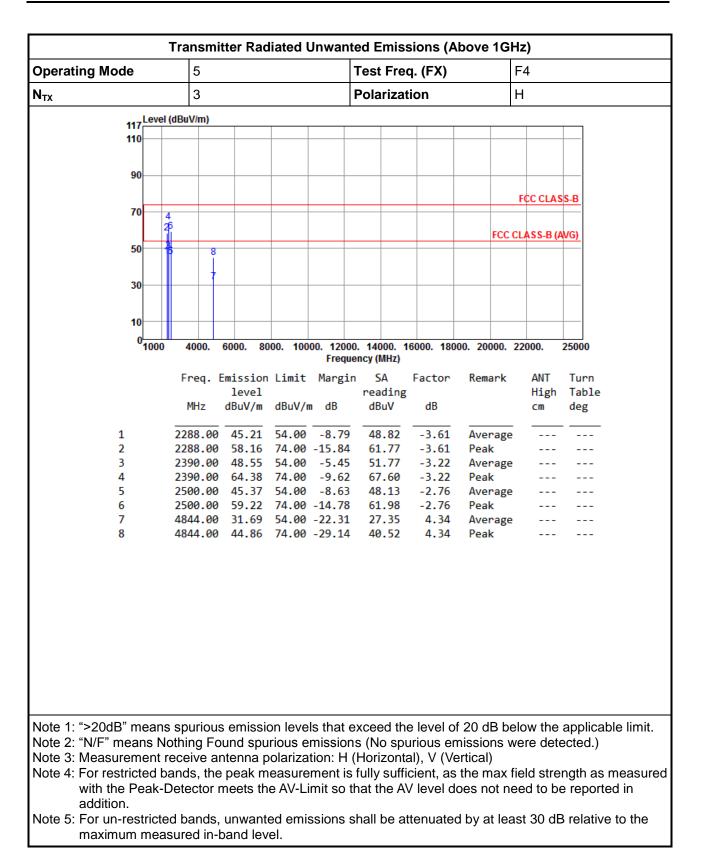


	Transmi	tter Rad	iated I	Jnwante	ed Emis	sions (A	bove 1G	Hz)		
Operating Mode	5			-	Fest Fre	q. (FX)		F4		
N _{TX}	3	3			Polariza	tion		V		
Leve	l (dBuV/m)			I						
117										
00										
90										
	4							FCC CLAS	S-B	
70	16									
	1						FCC	CLASS-B (A	VG)	
50	1 ș									
										
30						_				
10										
0										
0 <mark></mark> 1000	4000.	6000. 80	00. 100		. 14000. 1 ncy (MHz)	6000. 180	00. 20000.	22000.	25000	
	Frea.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	
		level		0	reading			High	Table	
	MHz	dBuV/m	dBuV/r	n dB	dBuV	dB		cm	deg	
4	2200 00	46.30	<u></u>	7.64	<u> </u>		A			
1 2	2288.00 2288.00			-7.61 -14.69	50.00 62.92	-3.61 -3.61	Average Peak			
3	2390.00				56.16	-3.22	Average			
4	2390.00				73.21	-3.22	Peak			
5	2500.00			-5.06	51.70	-2.76	Average	·		
6	2500.00			-12.58		-2.76	Peak			
7	4844.00 4844.00			-22.22 -29.27	27.44 40.39	4.34 4.34	Average Peak			
o	4044.00	44.75	74.00	-29.27	40.39	4.04	геак			
lote 1: ">20dB" mean										
lote 2: "N/F" means N								were det	ected.)	
lote 3: Measurement								Call 6	and the second	
lote 4: For restricted b										
with the Peak-	Detector r	neets th	e AV-LI	mit so th	hat the A	v ievel d	ioes not n	eea to b	e reported in	
addition.	d banda	unwort	ad ami	ecione o	hall ha a	ttonuoto	d by at la	201 20 A	R rolative to the	
lote 5: For un-restricte maximum mea				5510115 5	nan be a	nenuale	u by at lea	ລຣເ ວບ ຟໄ		
maximum mea	sureu III-l	Janu iev	.							

3.6.25 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT-40_ANT 5







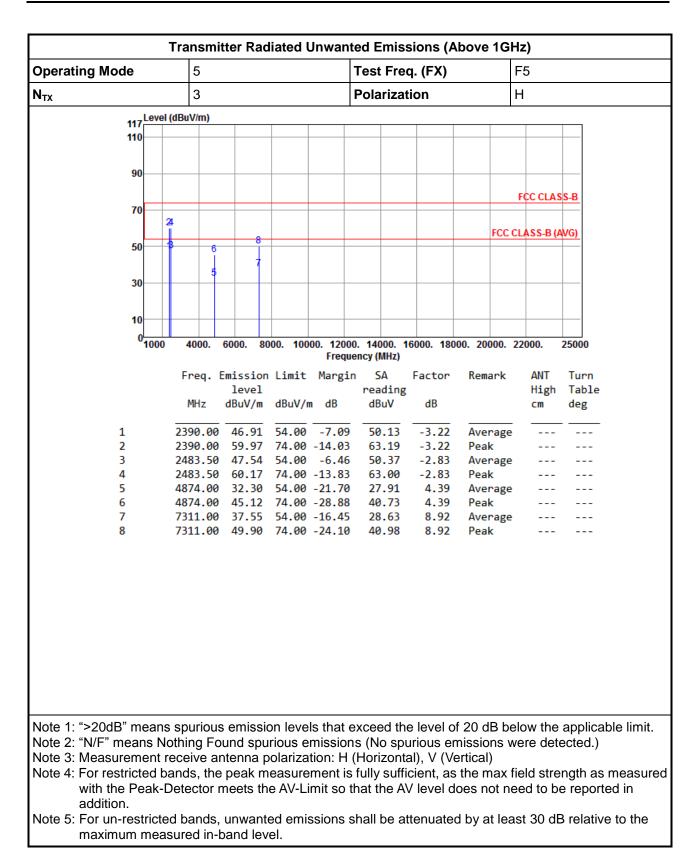




Operating M	ode		5				ŀ	Test Fre	q. (FX)		F5	
N _{TX}			3	3				Polarizat	tion	V		
	1	evel (c	JBuV/m)								1	
		1010										
	110											
	90											
											FCC CLAS	S-B
	70	- 2 4										
										FCC	CLASS-B (A	WG)
	50			6	8							
				1	1							
	30-			3								
	10											
	10											
	0 <mark>-</mark> 1	000	4000.	60	000. 80	00. 100			6000. 180	00. 20000.	22000.	25000
							Freque	ency (MHz)				
			Freq.			Limit	Margin		Factor	Remark		Turn
			MI 1-		level		- 40	reading			High	Table
			MHz	a	IBUV/m	dBuV/r	n dB	dBuV	dB		cm	deg
	1		2390.0	00 -	52.95	54.00	-1.05	56.17	-3.22	Average		
	2		2390.0			74.00	-4.60	72.62	-3.22	Peak		
	3		2483.5	0	51.73	54.00	-2.27	54.56	-2.83	Average	e	
	4		2483.5			74.00	-9.98	66.85	-2.83	Peak		
	5		4874.6				-21.52	28.09	4.39	Average	e	
	6 7						-28.79 -16.49		4.39 8.92	Peak Average		
	8						-23.57	41.51	8.92	Peak		
	0		/	~	50.45	/4.00	23.37	41.51	0.52	1 Cur		
No. 4 . 4 . 00	ID"										.1. 11.	
												applicable lim
Note 2: "N/F"											were det	ected.)
Note 3: Meas											field atra	nath as mass
												ength as measu
addit		1K-D6	electo	1110	eels in	e AV-LI	mit so t	nat the A		ues not r	ieeu to D	e reported in
audit												
Voto 5. For	n_rootri	intad	hand	e	nwont	ad ami	eeione e	hall ha a	Itonuato	d by at la	2et 20 40	B relative to the

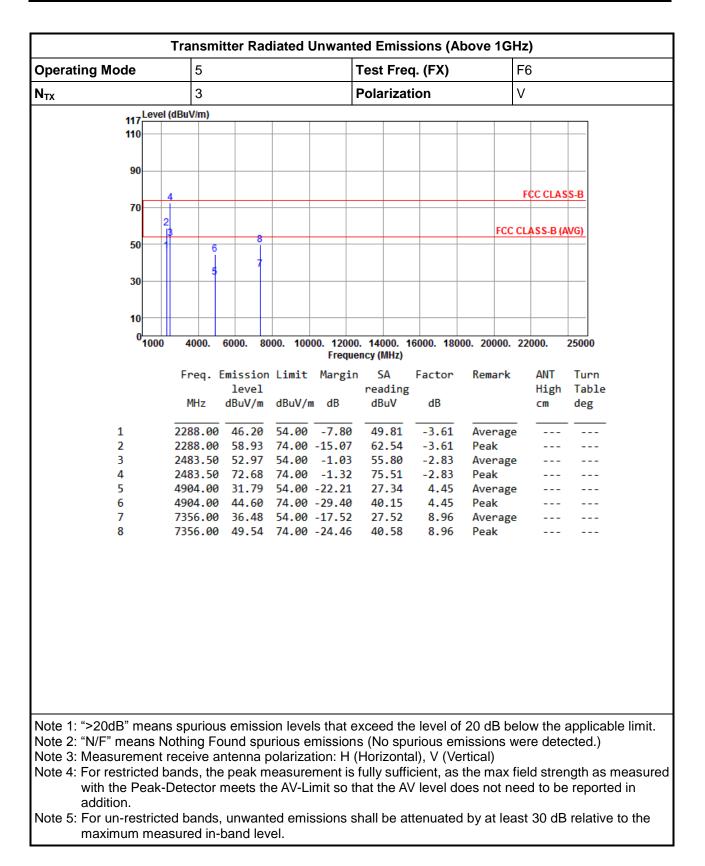


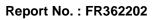














Operating Mode	5	5			Test Free	q. (FX)	F6		
N _{TX}	3			F	Polarizat	ion		Н	
	(dBuV/m)								
110									
90									
								FCC CLAS	S-B
70	4								
	2						FCC	CLASS-B (A	WG)
50	3 6	8							
		1							
30	3					_			
10									
0 ¹ 1000	4000.	6000. 80	00. 100		. 14000. 1	6000. 180	00. 20000.	22000.	25000
	-				ncy (MHz)	-			_
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/r	n dB	dBuV	dB		ст	deg
	1112	404471	aba v /1		abat	u.		C	468
1	2288.00	45.16	54.00	-8.84	48.77	-3.61	Averag	e	
2	2288.00		74.00	-15.75	61.86	-3.61	Peak		
3	2483.50		54.00		50.94	-2.83	Averag	e	
4	2483.50 4904.00				68.88 27.43	-2.83 4.45	Peak Averag		
6		44.79			40.34	4.45	Peak		
7		36.44			27.48	8.96	Averag	e	
8	7356.00	49.57	74.00	-24.43	40.61	8.96	Peak		
Note 1: ">20dB" means									
Note 2: "N/F" means N Note 3: Measurement Note 4: For restricted b with the Peak-l addition.	eceive a ands, the	ntenna p e peak m	olariza easure	tion: H(ment is	Horizonta fully suffi	al), V (Ve cient, as	ertical) the max	field stre	ngth as measu



4 Test Equipment and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (C	:001-WS)			
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100169	Oct. 02, 2012	Oct. 01, 2013
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Dec. 04, 2012	Dec. 03, 2013
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2012	Dec. 03, 2013
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 25, 2012	Dec. 24, 2013
50 ohm terminal	NA	50	01	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	02	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal	NA	50	03	Apr. 22, 2013	Apr. 21, 2014
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014

Test Item	Radiated Emission ab	ove 1GHz			
Test Site	966 chamber1 / (03CH	H01-WS)			
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
3m semi-anechoic chamber	CHAMPRO	SAC-03	03CH01-WS	Jan. 04, 2013	Jan. 03, 2014
Spectrum Analyzer	R&S	FSV40	101498	Jan. 24, 2013	Jan. 23, 2014
Receiver	ROHDE&SCHWAR Z	ESR3	101658	Jan. 28, 2013	Jan. 27, 2014
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jan. 11, 2013	Jan. 10, 2014
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 18, 2013	Feb. 17, 2014
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Jan. 14, 2013	Jan. 13, 2014
Amplifier	Burgeon	BPA-530	100219	Nov. 28, 2012	Nov. 27, 2013
Amplifier	Agilent	83017A	MY39501308	Dec. 18, 2012	Dec. 17, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-001	Dec. 25, 2012	Dec. 24, 2013
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-002	Dec. 25, 2012	Dec. 24, 2013
control	EM Electronics	EM1000	60612	N/A	N/A
Note: Calibration Inter	val of instruments listed	above is one year.			
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15. 2012	Nov. 14. 2014

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	MITEQ	AMF-6F-260400	9121372	Apr. 19, 2013	Apr. 18, 2015
Note: Calibration Interv	val of instruments listed	l above is two year.			



Test Item	RF Conducted				
Test Site	TH01-HY				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV 40	101063	Feb. 18, 2013	Feb. 17, 2014
Spectrum Analyzer	R&S	FSP 40	100305	Mar. 20, 2013	Mar. 19, 2014
Temp. and Humidity Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	Nov. 21, 2012	Nov. 20, 2013
Signal Generator	R&S	SMB100A	175727	Jan. 14, 2013	Jan. 14, 2014
Power Sensor	Anritsu	MA2411B	0917017	Feb. 02, 2013	Feb. 01, 2014
Power Meter	Anritsu	ML2495A	0949003	Feb. 02, 2013	Feb. 01, 2014