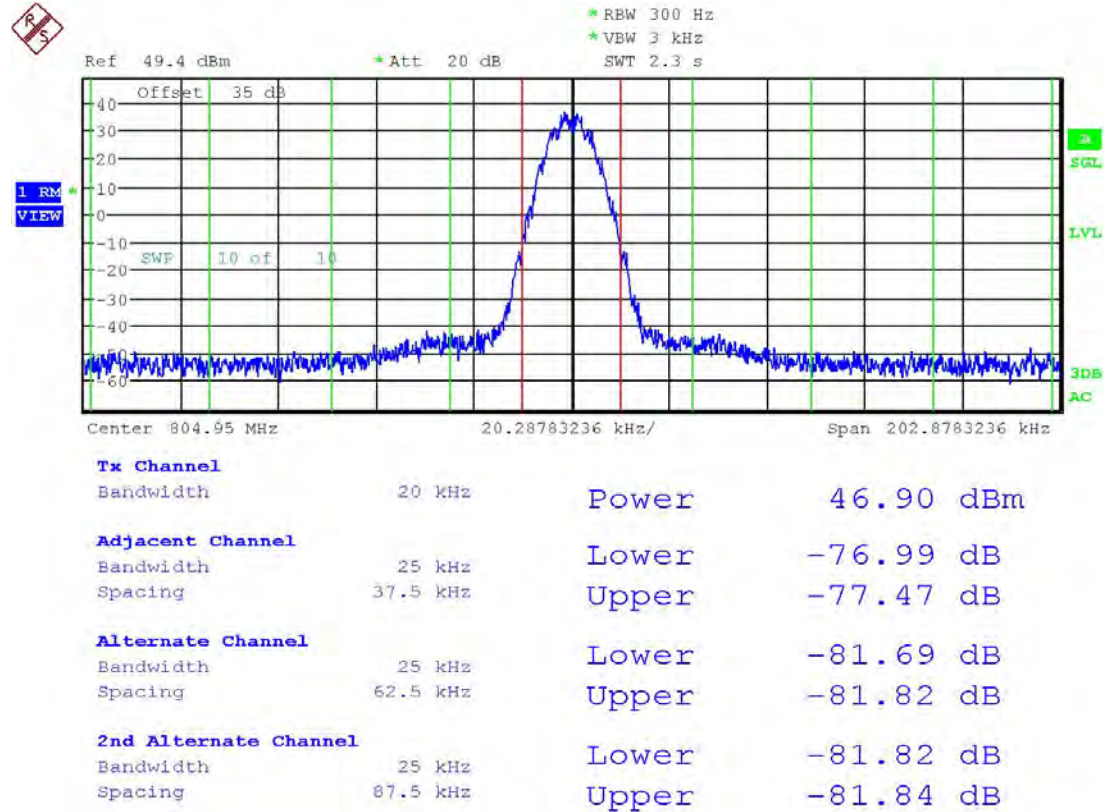


ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-16K0F3E

25 KHz Measurement Bandwidth



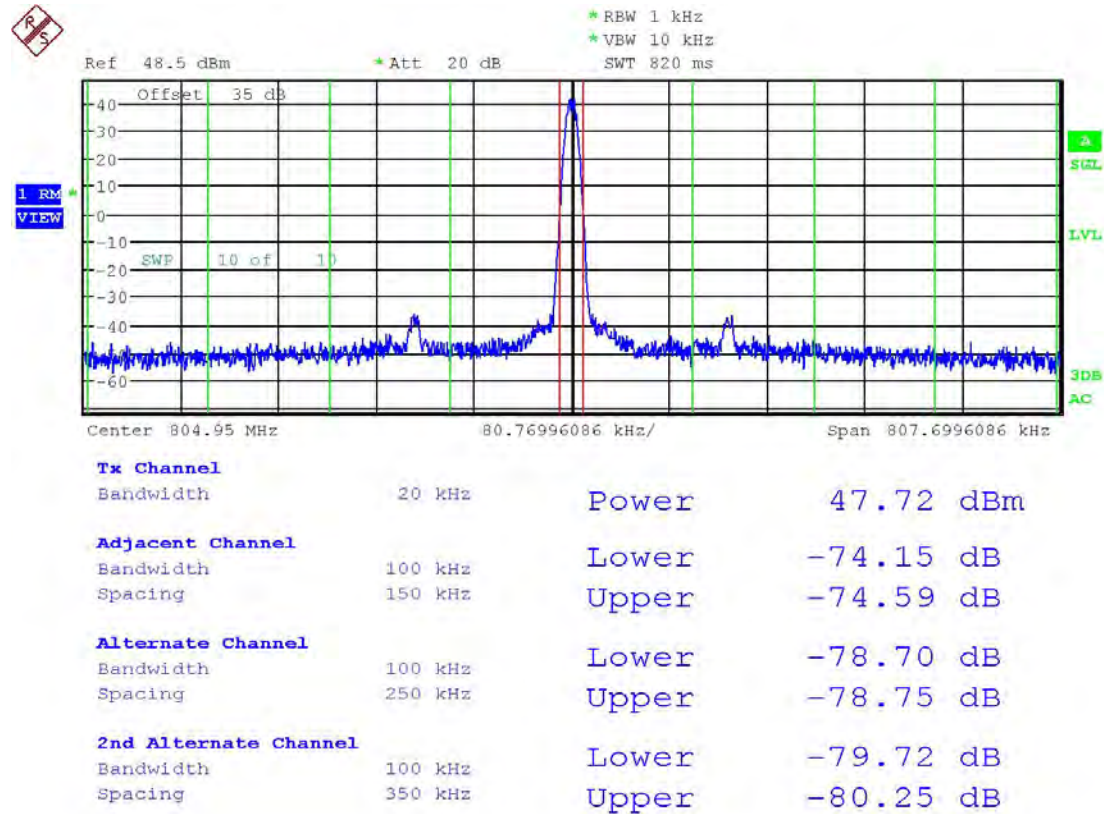
Date: 15.OCT.2015 14:19:11

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-16K0F3E

100 KHz Measurement Bandwidth



Date: 15.OCT.2015 14:52:49

Swept 30 KHz Bandwidth Measurement

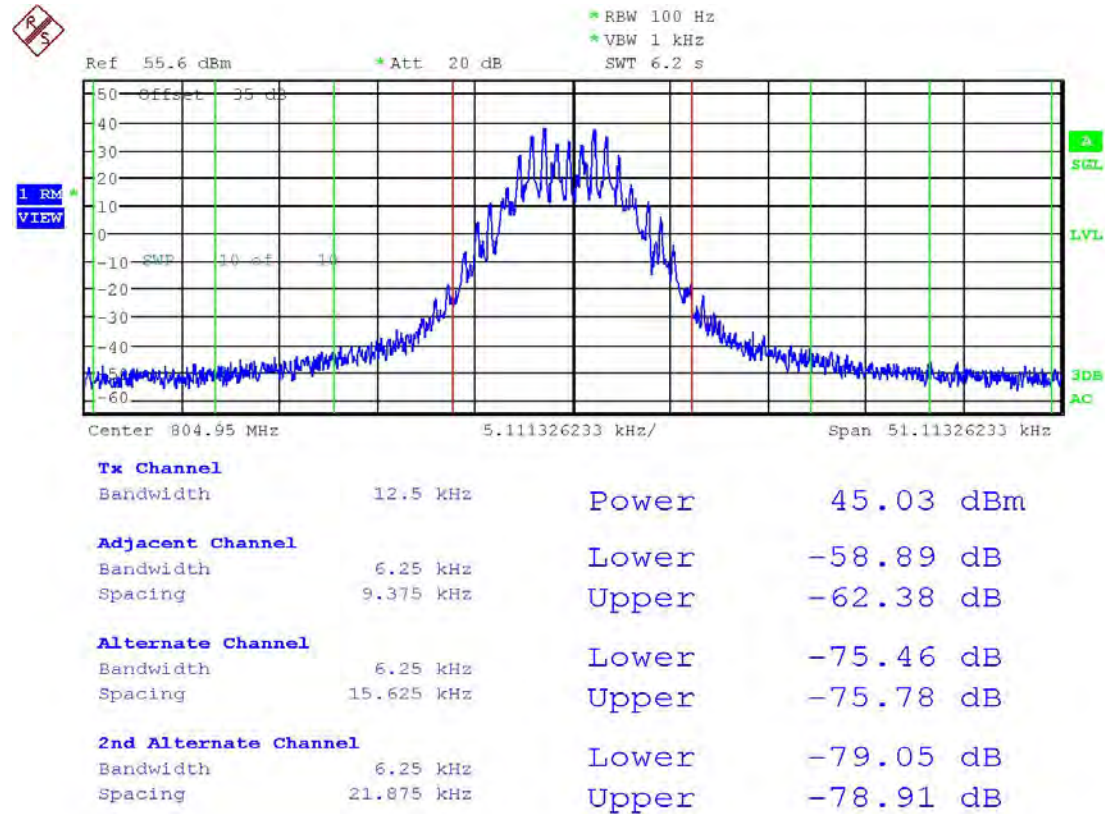
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-98.9	23.9
		Lower	-105	29.7
12 MHz to paired rx band	-75	-104.86		29.9
In the paired rx band	-100	-104.39		4.4

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-11K0F3E

6.25 KHz Measurement Bandwidth



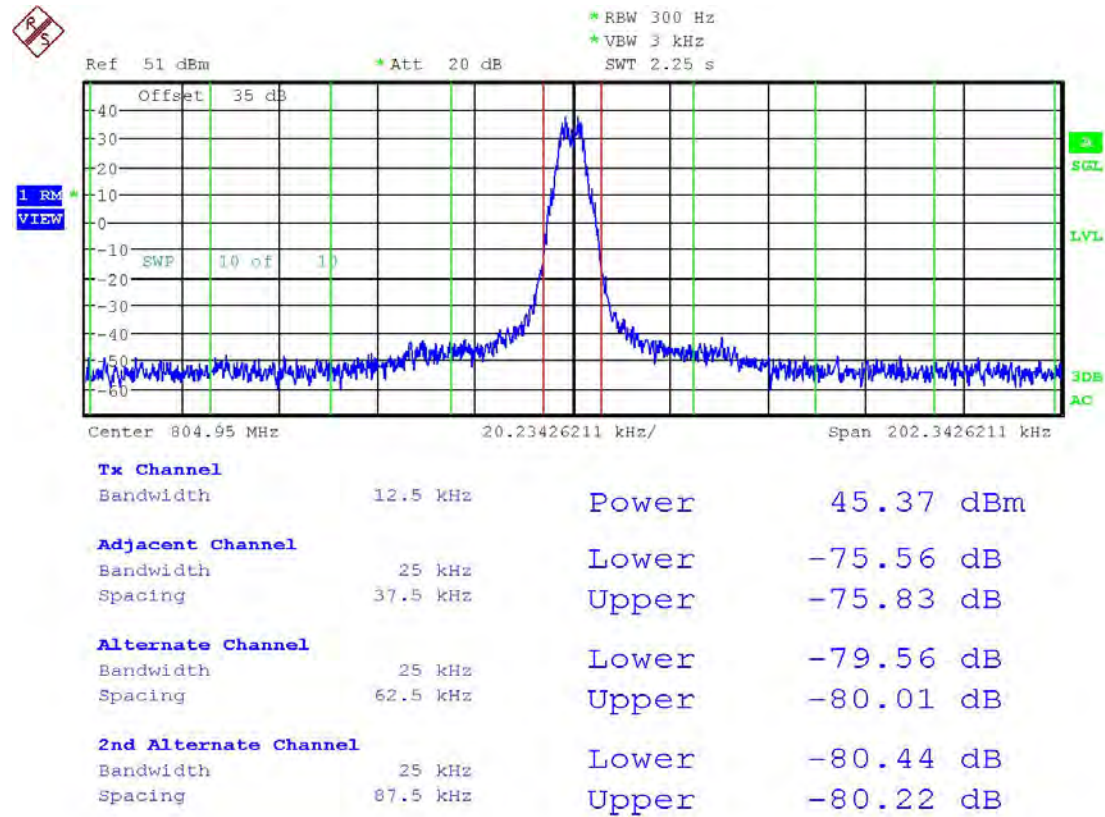
Date: 14.OCT.2015 13:56:32

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-11K0F3E

25 KHz Measurement Bandwidth



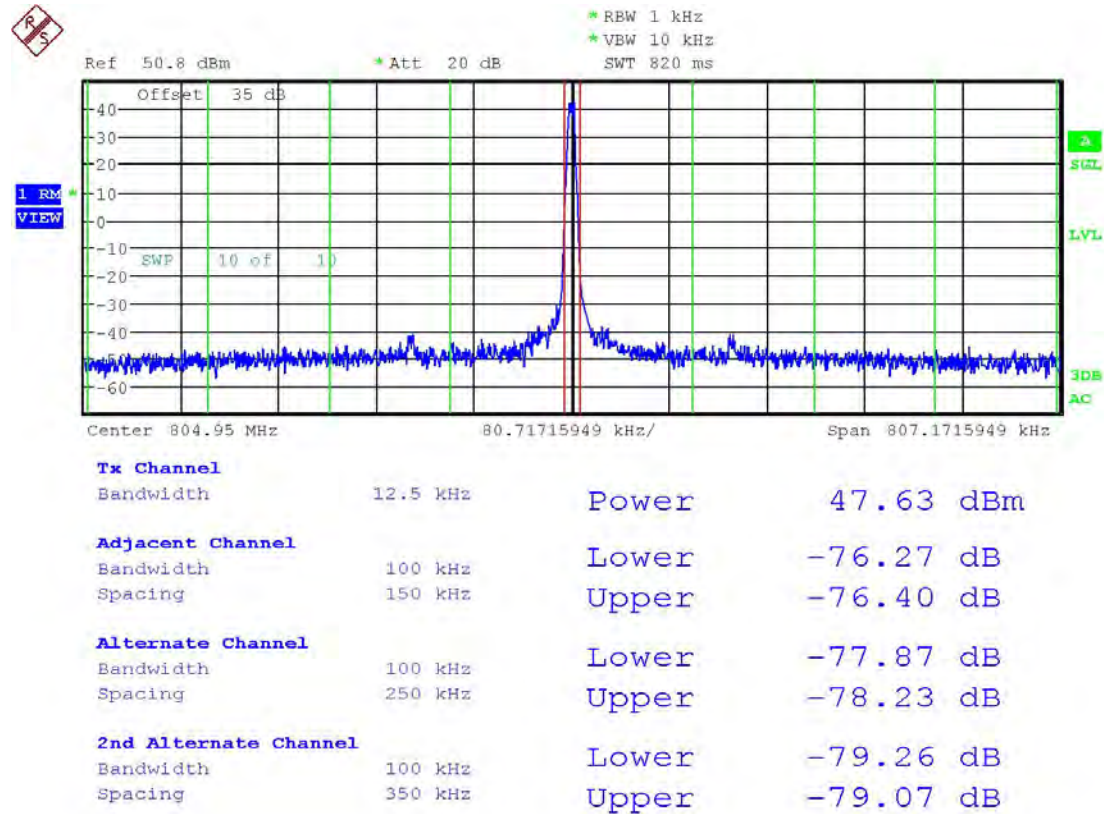
Date: 14.OCT.2015 14:24:35

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-11K0F3E

100 KHz Measurement Bandwidth



Date: 14.OCT.2015 14:42:44

Swept 30 KHz Bandwidth Measurement

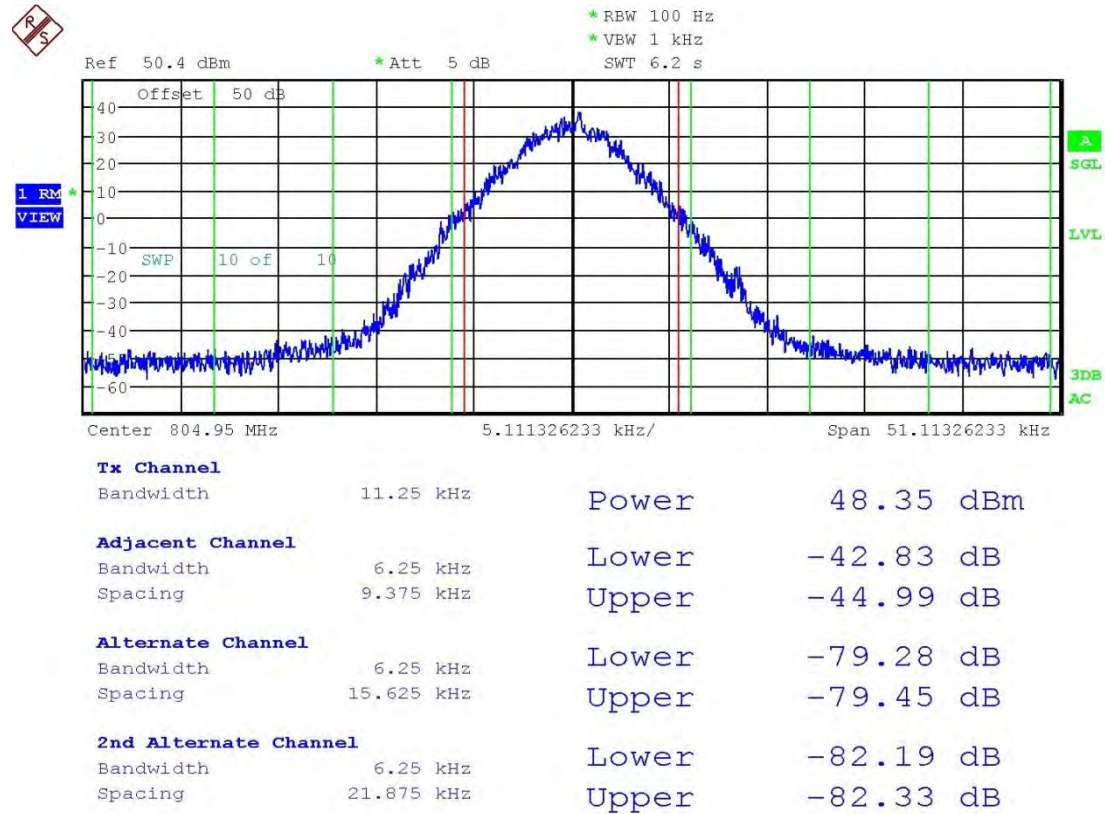
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-99.1	24.1
		Lower	-104	28.8
12 MHz to paired rx band	-75	-104.61		29.6
In the paired rx band	-100	-104.65		4.7

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K10F1E/8K10F1D

6.25 KHz Measurement Bandwidth



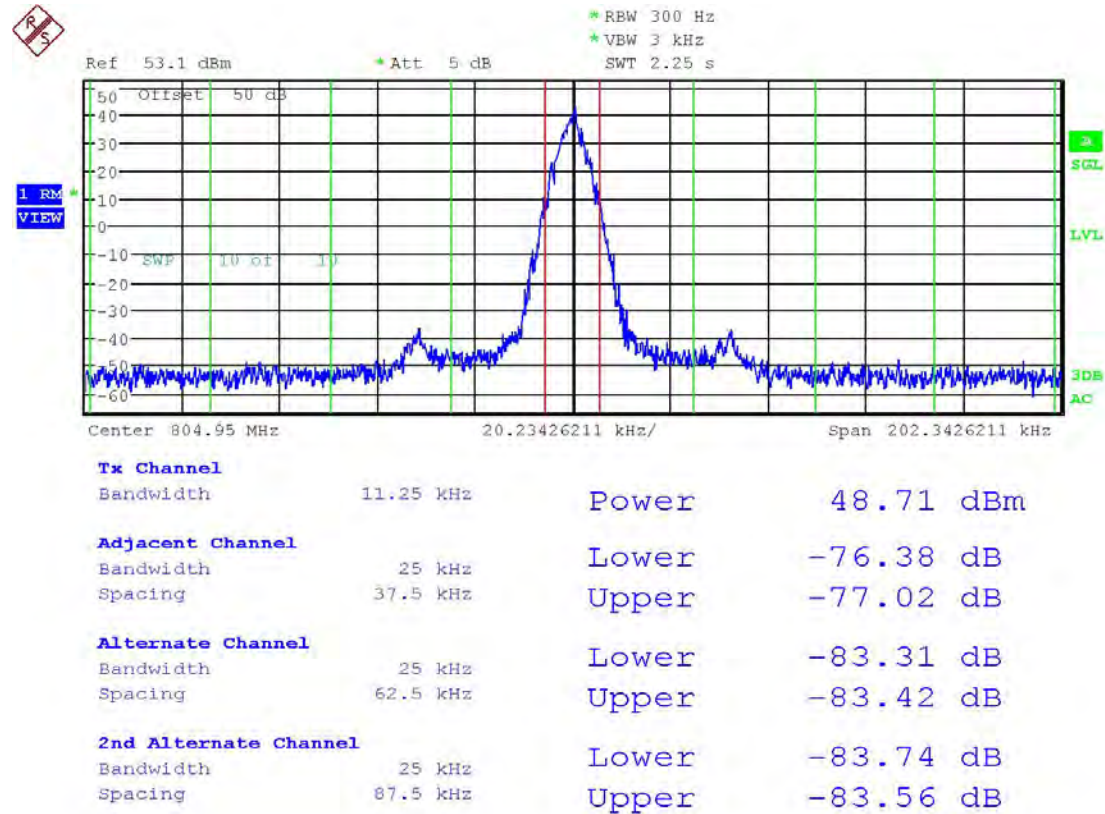
Date: 14.SEP.2015 10:15:40

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K10F1E/8K10F1D

25 KHz Measurement Bandwidth



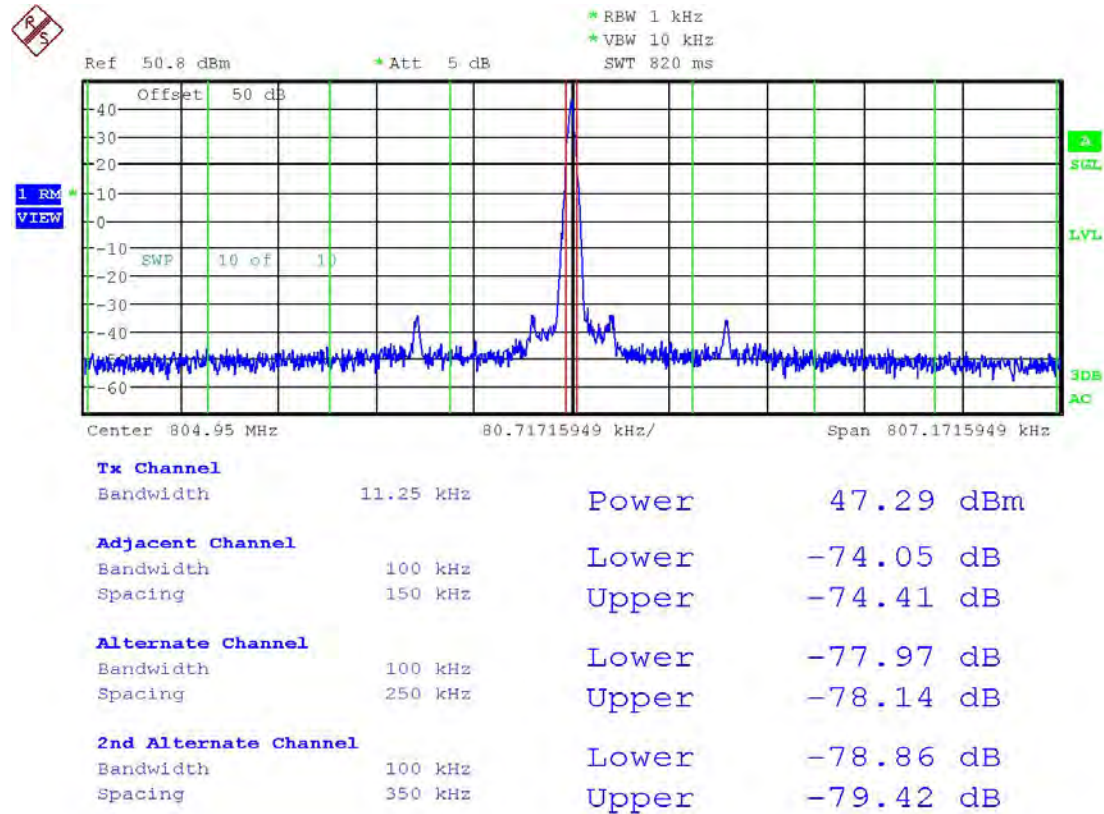
Date: 14.SEP.2015 10:28:34

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K10F1E/8K10F1D

100 KHz Measurement Bandwidth



Date: 14.SEP.2015 10:30:17

Swept 30 KHz Bandwidth Measurement

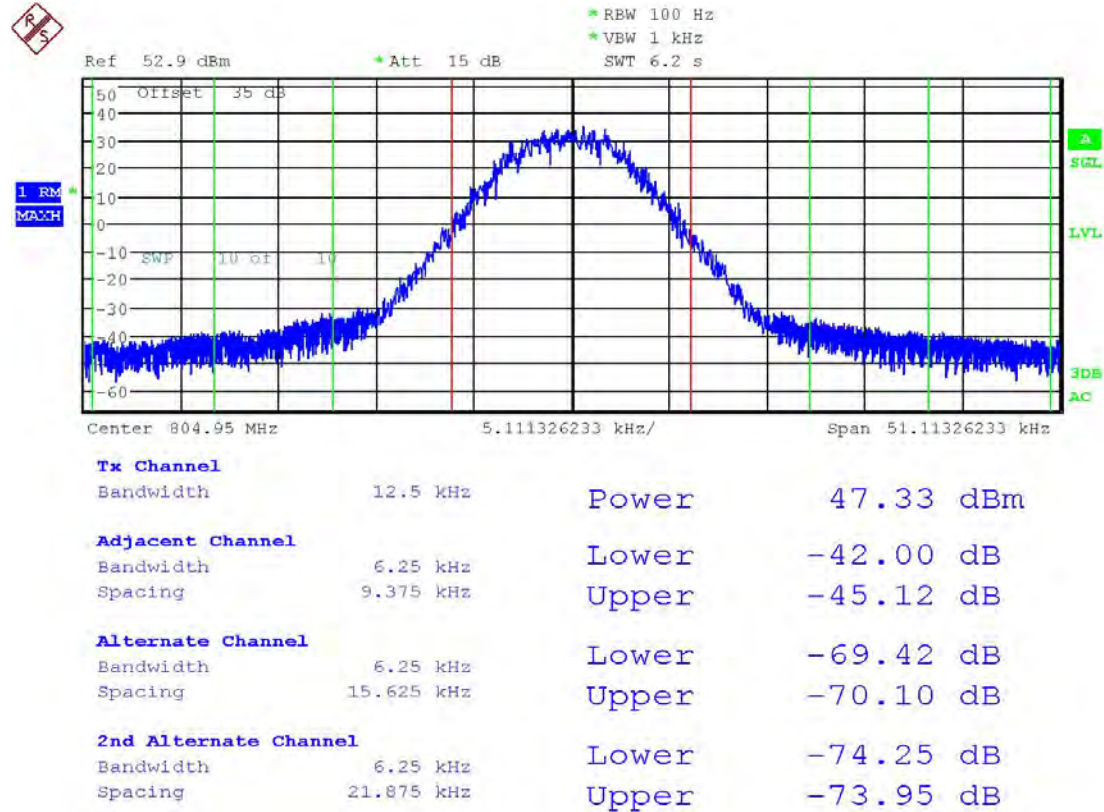
Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-102	27.2
		Lower	-108	33.0
12 MHz to paired rx band	-75	-108.2		33.2
In the paired rx band	-100	-108.01		8.0

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K10F7E

6.25 KHz Measurement Bandwidth



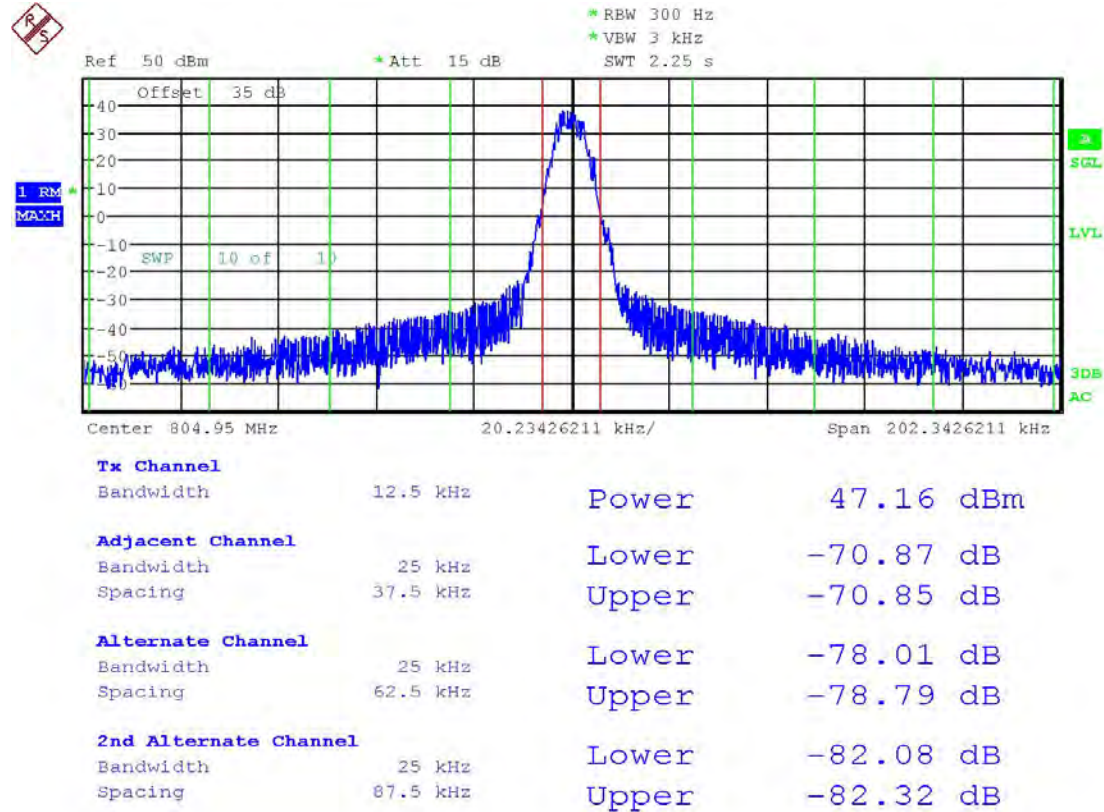
Date: 20.OCT.2015 13:08:08

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K10F7E

25 KHz Measurement Bandwidth



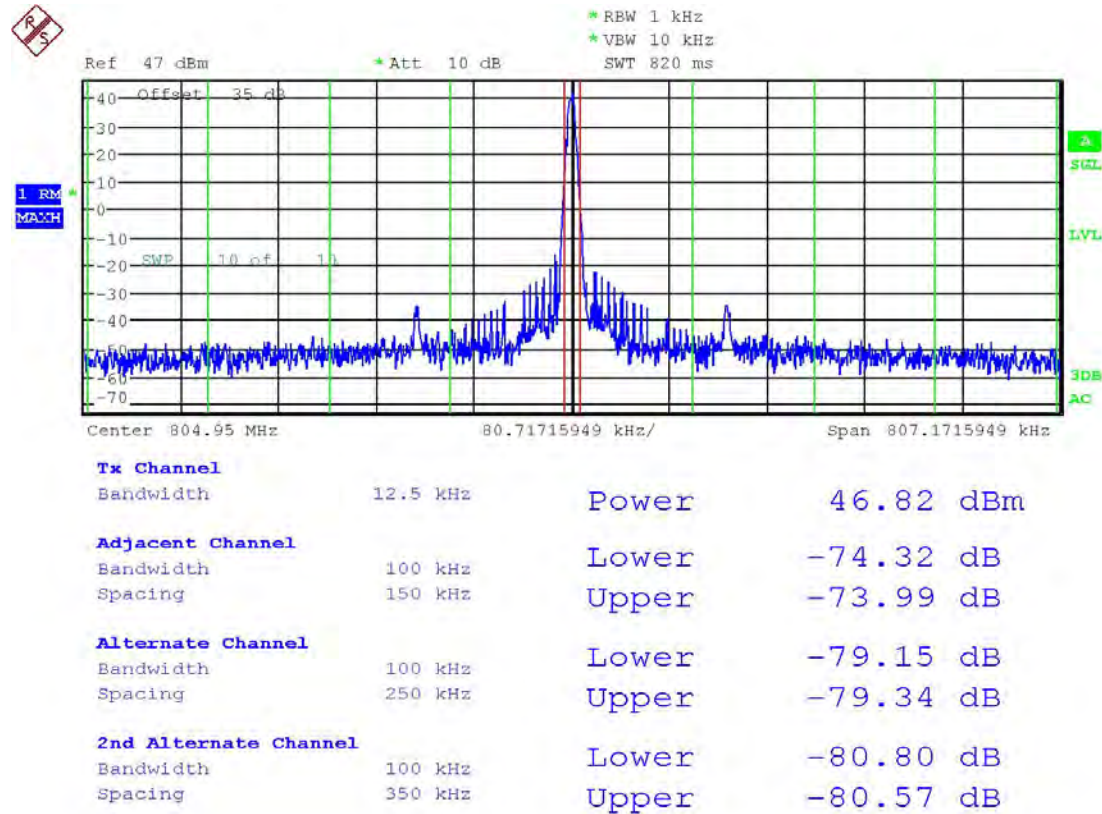
Date: 20.OCT.2015 13:22:06

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ADJACENT CHANNEL POWER (ACP)

TEST FREQ. 804.95 MHz-8K10F7E

100 KHz Measurement Bandwidth



Date: 20.OCT.2015 13:26:28

Swept 30 KHz Bandwidth Measurement

Offset from center frequency	ACP Limit (dBc)	ACP Level (dBc)		Margin (dB)
>400 KHz to 12 MHz	-75	Upper	-118	42.8
		Lower	-119	44.4
12 MHz to paired rx band	-75	-116.26		41.3
In the paired rx band	-100	-115.5		15.5

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

RULE PART NO.: Part 2.1051(a), 90.210(b)(g)(h), 90.691, 90.543(c)

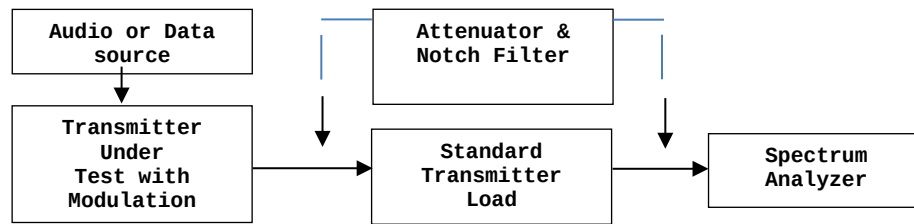
REQUIREMENTS:

Transmit Band (MHz)	Equipment Type	Rule Part	Requirement
150-174	12.5 KHz equipment With or Without Audio Low Pass Filter	90.210(d)(3)	50 + 10log (P) dB
	25 KHz equipment With Audio Low Pass Filter	90.210(b)(3)	43 + 10log (P) dB
769-775 & 799-805	All Equipment Types	90.543(c)	43 + 10log (P) dB
806-824 & 851-869	With Audio Low Pass Filter	90.210(b)(3)	43 + 10 log (P) dB.
806-809 & 851-854	Without Audio Low Pass Filter	90.210(h)(5)	43 + 10 log (P) dB.
809-824 & 854-869	Without Audio Low Pass Filter	90.210(g)(2)	43 + 10 log (P) dB.
809-824 & 854-869	All Equipment Types (EA-Band)	90.691(a)(2)	43 + 10 log (P) dB.

METHOD OF MEASUREMENT: ANSI/TIA-603 § 2.2.13 Unwanted Emissions:
Conducted Spurious

SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

TEST SETUP DIAGRAM:



TEST DATA: All modes of modulation and channel spacing were investigated at three places in each band. The data reported in the following table represents the worst case for each band.

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 150.85 MHz

	dBm	Watts	Limit
Power Output	47.2	52.48	67.2
	Frequency	dBc	Margin
	150.85	0	0.0
	301.70	81.6	14.4
	452.55	85.7	18.5
	603.40	97.3	30.1
	754.25	87.1	19.9
	905.10	102.1	34.9
*	1055.95	95.2	28.0
	1206.80	94.1	26.9
*	1357.65	94.4	27.2
*	1508.50	93.9	26.7

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 161.65 MHz

	dBm	Watts	Limit
Power Output	47	50.12	67
	Frequency	dBc	Margin
	161.65	0	0.0
	323.30	79.4	12.4
	484.95	89.4	22.4
	646.60	86.8	19.8
	808.25	78.0	11.0
	969.90	104.6	37.6
	1131.55	94.0	27.0
	1293.20	93.0	26.0
*	1454.85	97.0	30.0
*	1616.50	98.0	31.0

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 173.4 MHz

	dBm	Watts	Limit
Power Output	47	50.12	67
	Frequency	dBc	Margin
	173.40	0	0.0
	346.80	78.0	11.0
	520.20	87.0	20.0
	693.60	86.0	19.0
	867.00	93.0	26.0
*	1040.40	97.0	30.0
*	1213.80	97.0	30.0
*	1387.20	96.0	29.0
*	1560.60	96.0	29.0
*	1734.00	83.0	16.0

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 763.50 MHz

	dBm	Watts	Limit
Power Output	44	25.12	64
	Frequency	dBc	Margin
	763.50	0	0.0
	1527.00	84.0	20.0
	2290.50	86.0	22.0
	3054.00	92.0	28.0
	3817.50	92.0	28.0
	4581.00	80.5	16.5
	5344.50	83.0	19.0
	6108.00	88.0	24.0
	6871.50	87.0	23.0
*	7635.00	72.0	8.0

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 769.05 MHz

	dBm	Watts	Limit
Power Output	44	25.12	64
	Frequency	dBc	Margin
	769.05	0	0.0
	1538.10	75.0	11.0
	2307.15	88.0	24.0
*	3076.20	86.5	22.5
*	3845.25	91.0	27.0
*	4614.30	68.0	4.0
*	5383.35	82.0	18.0
*	6152.40	81.5	17.5
*	6921.45	81.0	17.0
*	7690.50	76.0	12.0

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 775.0 MHz

	dBm	Watts	Limit
Power Output	44	25.12	64
	Frequency	dBc	Margin
	775.00	0	0.0
	1550.00	90.0	26.0
	2325.00	94.0	30.0
	3100.00	88.0	24.0
	3875.00	90.0	26.0
*	4650.00	91.0	27.0
*	5425.00	91.0	27.0
*	6200.00	90.0	26.0
*	6975.00	80.0	16.0
*	7750.00	75.0	11.0

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 793.50 MHz

	dBm	Watts	Limit
Power Output	44	25.12	64
	Frequency	dBc	Margin
	793.50	0	0.0
	1587.00	98.5	34.5
	2380.50	92.7	28.7
	3174.00	117.4	53.4
	3967.50	88.0	24.0
	4761.00	89.0	25.0
	5554.50	82.0	18.0
	6348.00	82.0	18.0
	7141.50	78.0	14.0
	7935.00	89.0	25.0

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 798.50 MHz

	dBm	Watts	Limit
Power Output	47	50.12	67
	Frequency	dBc	Margin
	798.50	0	0.0
	1597.00	87.4	20.4
	2395.50	95.3	28.3
*	3194.00	96.9	29.9
	3992.50	96.5	29.5
	4791.00	96.0	29.0
	5589.50	94.0	27.0
	6388.00	91.0	24.0
	7186.50	88.5	21.5
	7985.00	85.0	18.0

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 804.95 MHz

	dBm	Watts	Limit
Power Output	44	25.12	64
	Frequency	dBc	Margin
	804.90	0	0.0
	1609.80	83.0	19.0
	2414.70	85.0	21.0
	3219.60	99.0	35.0
	4024.50	100.2	36.2
	4829.40	98.6	34.6
	5634.30	91.0	27.0
	6439.20	88.3	24.3
	7244.10	94.5	30.5
	8049.00	86.5	22.5

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 806.50 MHz

	dBm	Watts	Limit
Power Output	45.44	34.99	65.44
	Frequency	dBc	Margin
	806.50	0	0.0
	1613.00	79.9	14.5
	2419.50	85.1	19.7
	3226.00	100.2	34.8
	4032.50	96.8	31.4
	4839.00	95.0	29.6
	5645.50	89.5	24.1
	6452.00	80.0	14.6
	7258.50	91.5	26.1
	8065.00	89.5	24.1

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 815.50 MHz

	dBm	Watts	Limit
Power Output	45.4	34.67	65.4
	Frequency	dBc	Margin
	815.00	0	0.0
	1630.00	74.0	8.6
	2445.00	74.6	9.2
	3260.00	97.0	31.6
	4075.00	98.8	33.4
	4890.00	99.7	34.3
	5705.00	91.4	26.0
	6520.00	93.6	28.2
	7335.00	91.5	26.1
	8150.00	87.5	22.1

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 823.95 MHz

	dBm	Watts	Limit
Power Output	45.26	33.57	65.26
	Frequency	dBc	Margin
	823.95	0	0.0
	1647.90	72.9	7.6
	2471.85	71.9	6.6
*	3295.80	100.0	34.7
*	4119.75	98.1	32.8
*	4943.70	98.6	33.3
*	5767.65	85.0	19.7
*	6591.60	85.4	20.1
*	7415.55	88.2	22.9
*	8239.50	92.1	26.8

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 851.50 MHz

	dBm	Watts	Limit
Power Output	45.08	32.21	58.08
	Frequency	dBc	Margin
	851.05	0	0.0
	1702.10	92.1	34.0
	2553.15	82.1	24.0
	3404.20	104.1	46.0
*	4255.25	92.9	34.9
*	5106.30	100.9	42.8
*	5957.35	100.6	42.6
*	6808.40	100.8	42.8
*	7659.45	99.4	41.3
*	8510.50	101.0	43.0

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 860.05 MHz

	dBm	Watts	Limit
Power Output	45.13	32.58	58.13
	Frequency	dBc	Margin
	860.05	0	0.0
	1720.10	91.1	33.0
	2580.15	85.1	27.0
	3440.20	98.1	40.0
*	4300.25	98.9	40.7
*	5160.30	99.2	41.1
*	6020.35	100.8	42.7
*	6880.40	101.5	43.4
*	7740.45	100.7	42.6
*	8600.50	101.2	43.1

* Indicates only the noise floor was present

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SPURIOUS EMISSIONS AT ANTENNA TERMINALS (CONDUCTED)

Test Data: High Power 868.95 MHz

	dBm	Watts	Limit
Power Output	44.87	30.69	57.87
	Frequency	dBc	Margin
	868.95	0	0.0
	1737.90	89.9	32.0
	2606.85	83.9	26.0
	3475.80	100.9	43.0
	4344.75	85.9	28.0
*	5213.70	100.8	42.9
*	6082.65	100.7	42.9
*	6951.60	100.6	42.8
*	7820.55	100.3	42.5
*	8689.50	100.3	42.4

* Indicates only the noise floor was present

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FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

RULE PARTS. NO.: Part 2.1053, 90.210, 90.543(c)(f)

REQUIREMENTS: Out of Band Emission Limits

Transmit Band (MHz)	Equipment Type	Rule Part	Requirement
150-174	12.5 KHz equipment With or Without Audio Low Pass Filter	90.210(d)(3)	50 + 10log (P) dB
	25 KHz equipment With Audio Low Pass Filter	90.210(b)(3)	43 + 10log (P) dB
769-775 & 799-805	All Equipment Types	90.543(c)	43 + 10log (P) dB Except for emissions in the band 1559-1610 MHz
		90.543(f)	-70 dBW/MHz EIRP for wideband signals, & -80 dBW/MHz EIRP for discrete emissions of less than 700 Hz bandwidth for all emissions in the band 1559-1610 MHz
806-824 & 851-869	With Audio Low Pass Filter	90.210(b)(3)	43 + 10 log (P) dB.
806-809 & 851-854	Without Audio Low Pass Filter	90.210(h)(5)	43 + 10 log (P) dB.
809-824 & 854-869	Without Audio Low Pass Filter	90.210(g)(2)	43 + 10 log (P) dB.
809-824 & 854-869	All Equipment Types (EA-Band)	90.691(a)(2)	43 + 10 log (P) dB.

METHOD OF MEASUREMENT: The following test methods were used

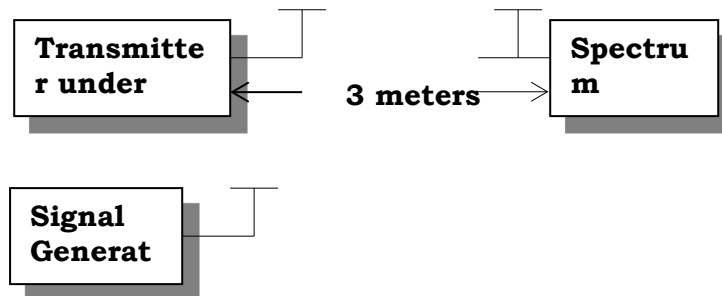
ANSI/TIA-603 § 2.2.12 Unwanted Emissions: Radiated Spurious
(Out of Band Emissions from 9 KHz – Tenth Harmonic of Fundamental)

ANSI C63.4 § 8 Radiated emission measurements
(EIRP of Emissions In the 1559 – 1610 MHz Band)

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FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

TEST SETUP DIAGRAM:



FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

Test Data: Emissions in Band 1559 – 1610 MHz

Note: For the purpose of equipment authorization, during this test the transmitter was tested with an antenna that is representative of the type that will be used with the equipment in normal operation. All modes of modulation were tested; the following is the worst case results

Worst Mode: 8K10F1E / 8K10F1D

Tuned Freq MHz	Emission Freq MHz	Meter Reading dBuV	Ant Polarity	Coax Loss dB	Filter Insertion Loss dB	Correction Factor dB/M	Field Strength dBu V/M	EIRP dBW/MHz	Margin dB
799.05	1598.1	18.76	H	3.14	1.30	28.67	51.87	-73.43	3.43
799.05	1598.1	17.76	V	3.14	1.30	28.67	50.87	-74.43	4.43
802.05	1604.1	19.83	H	3.13	1.30	28.71	52.97	-72.33	2.33
802.05	1604.1	18.22	V	3.13	1.30	28.71	51.36	-73.94	3.94
804.95	1609.9	17.03	H	3.12	1.30	28.75	50.20	-75.10	5.10
804.95	1609.9	15.59	V	3.12	1.30	28.75	48.76	-76.54	6.54

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FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

Test Data: High Power 173.3 MHz

Emission Frequency (MHz)	Power Mode	ERP Power Output (dBm)	ERP Power Output (Watts)	FCC Requirement dB	Bandwidth - BW - kHz
173.40	Hi	47.00	50.12	67.00	12.50
Emission Frequency (MHz)	Ant. Polarity	Below Carrier (dBc)		Margin	
346.80	H	92.23		25.23	
520.20	V	80.08		13.08	
693.60	H	79.95		12.95	
867.00	H	83.54		16.54	
1,040.40	V	89.11		22.11	
1,213.80	V	100.13		33.13	
1,387.20	V	101.39		34.39	
1,560.60	H	105.28		38.28	
1,734.00	V	94.49		27.49	

Test Data: High Power 769.05 MHz

Emission Frequency (MHz)	Power Mode	ERP Power Output (dBm)	ERP Power Output (Watts)	FCC Requirement dB	Bandwidth - BW - kHz
769.05	Hi	44.00	25.12	57	12.50
Emission Frequency (MHz)	Ant. Polarity	Below Carrier (dBc)		Margin	
1,538.10	V	77.67		21.67	
2,307.15	H	89.61		32.61	
3,076.20	V	88.05		31.05	
3,845.25	H	90.99		34.99	
4,614.30	V	91.16		34.16	
5,383.35	H	81.04		24.04	
6,152.40	V	86.57		29.57	
6,921.45	V	87.81		31.81	
7,690.50	V	85.34		28.34	

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FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

Test Data: High Power 802.05 MHz

Emission Frequency (MHz)	Power Mode	ERP Power Output (dBm)	ERP Power Output (Watts)	FCC Requirement dB	Bandwidth - BW - kHz
804.95	Hi	45.45	35.08	58.45	12.50
Emission Frequency (MHz)	Ant. Polarity	Below Carrier (dBc)		Margin	
1,609.90	V	66.99		8.54	
2,414.85	H	74.94		16.49	
3,219.80	V	93.65		35.20	
4,024.75	V	90.43		31.98	
4,829.70	H	94.36		35.91	
5,634.65	V	84.06		25.61	
6,439.60	V	87.66		29.21	
7,244.55	V	84.79		26.34	
8,049.50	V	84.41		26.96	

Test Data: High Power 823.95 MHz

Emission Frequency (MHz)	Power Mode	ERP Power Output (dBm)	ERP Power Output (Watts)	FCC Requirement dB	Bandwidth - BW - kHz
823.95	Hi	45.45	35.08	58.45	12.50
Emission Frequency (MHz)	Ant. Polarity	Below Carrier (dBc)		Margin	
1,647.90	V	86.66		28.21	
2,471.85	H	93.08		34.63	
3,295.80	V	92.42		33.97	
4,119.75	V	89.76		31.31	
4,943.70	H	93.13		34.68	
5,767.65	H	85.99		27.54	
6,591.60	H	90.09		31.64	
7,415.55	V	89.88		31.43	
8,239.50	H	84.21		25.76	

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FIELD STRENGTH OF SPURIOUS RADIATION EMISSIONS

Test Data: High Power 868.95 MHz

Emission Frequency (MHz)	Power Mode	ERP Power Output (dBm)	ERP Power Output (Watts)	FCC Requirement dB	Bandwidth - BW - kHz
868.95	Hi	45.45	35.08	58.45	12.50
Emission Frequency (MHz)	Ant. Polarity	Below Carrier (dBc)		Margin	
1,737.90	H	91.06		32.61	
2,606.85	V	94.10		35.65	
3,475.80	V	91.30		32.85	
4,344.75	V	80.94		22.49	
5,213.70	V	88.84		30.39	
6,082.65	V	81.73		23.28	
6,951.60	V	88.64		30.19	
7,820.55	V	86.69		28.24	
8,689.50	V	84.31		25.86	

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FREQUENCY STABILITY

RULE PARTS. NO.: Part 2.1055, Part 90.213, 90.539(c)

Requirements: Temperature range requirements: -30 to +50° C.
Voltage Variation +, -15%

Frequency Band (MHz)	Frequency Stability (PPM)	Channel Bandwidth (KHz)
769 - 775	±1.5	12.5
799 - 805	±1.5	
769 - 775	±2.5	25
799 - 805	±2.5	
806 - 809	±1.5	12.5, 20, 25
809 - 824	±2.5	
851 - 854	±1.5	
854 - 869	±2.5	

METHOD OF MEASUREMENTS: ANSI/TIA-603 § 2.2.2 Carrier Frequency Stability

Test Data: 815.05 MHz 12.5 KHz

All modes of operation were checked in each band, the worst case is reported below.

Temperature	Frequency MHz	Cycles	PPM
25°C (reference)	799.049838		
-30°C	799.049349	-489	-0.612
-20°C	799.049315	-523	-0.655
-10°C	799.049354	-484	-0.606
0°C	799.049364	-474	-0.593
10°C	799.04949	-348	-0.436
20°C	799.049699	-139	-0.174
30°C	799.049738	-100	-0.125
40°C	799.049584	-254	-0.318
50°C	799.049498	-340	-0.426
Battery Voltage	Frequency	Cycles	PPM
-15%	799.049838	0	0.000
15%	799.049836	-2	-0.003

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TRANSIENT FREQUENCY RESPONSE

RULE PARTS. NO.: 90.214

Requirements: Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum transient frequencies within the maximum frequency difference limits during the time intervals indicated:

Time intervals ^{1 2}	Maximum frequency difference ³	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t ₁ ⁴	±25.0 kHz	5.0 ms	10.0 ms
t ₂	±12.5 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t ₁ ⁴	±12.5 kHz	5.0 ms	10.0 ms
t ₂	±6.25 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t ₁ ⁴	±6.25 kHz	5.0 ms	10.0 ms
t ₂	±3.125 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±6.25 kHz	5.0 ms	10.0 ms

¹_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

t_1 is the time period immediately following t_{on} .

t_2 is the time period immediately following t_1 .

t_3 is the time period from the instant when the transmitter is turned off until t_{off} .

t_{off} is the instant when the 1 kHz test signal starts to rise.

² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

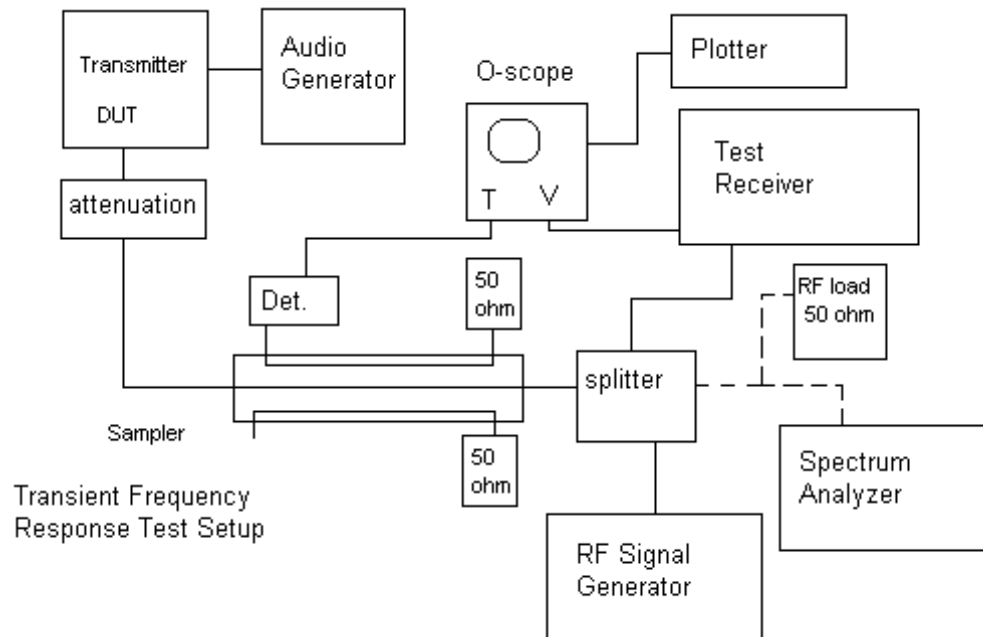
³ Difference between the actual transmitter frequency and the assigned transmitter frequency.

⁴ If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

TRANSIENT FREQUENCY RESPONSE

METHOD OF MEASUREMENTS: ANSI/TIA-603 § 2.2.2 Carrier Frequency Stability

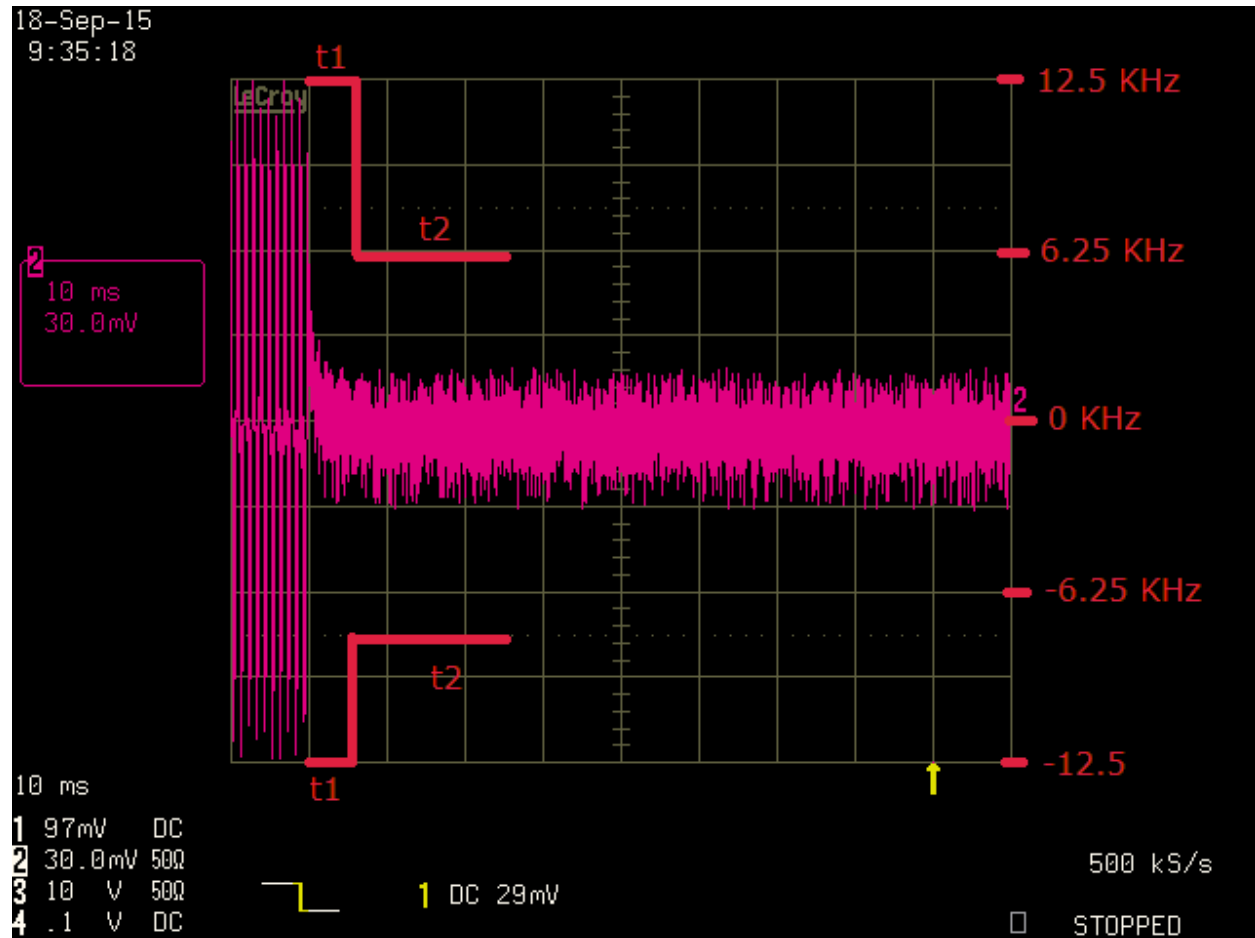
TEST SETUP DIAGRAM:



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TRANSIENT FREQUENCY RESPONSE

Test Data: 12.5 KHz Channel Spacing Turn On

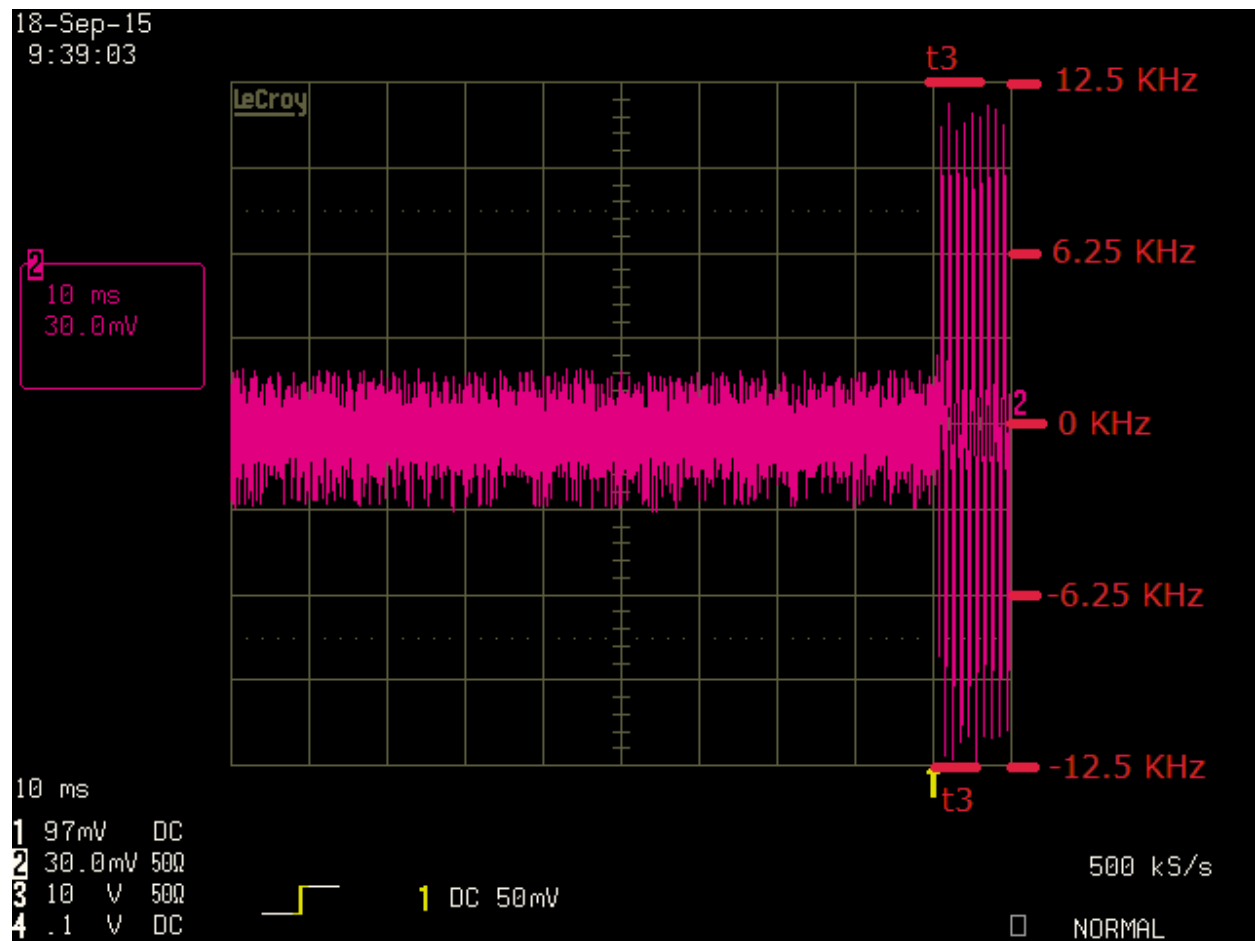


Results meet requirements

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TRANSIENT FREQUENCY RESPONSE

Test Data: 12.5 KHz Channel Spacing Turn Off

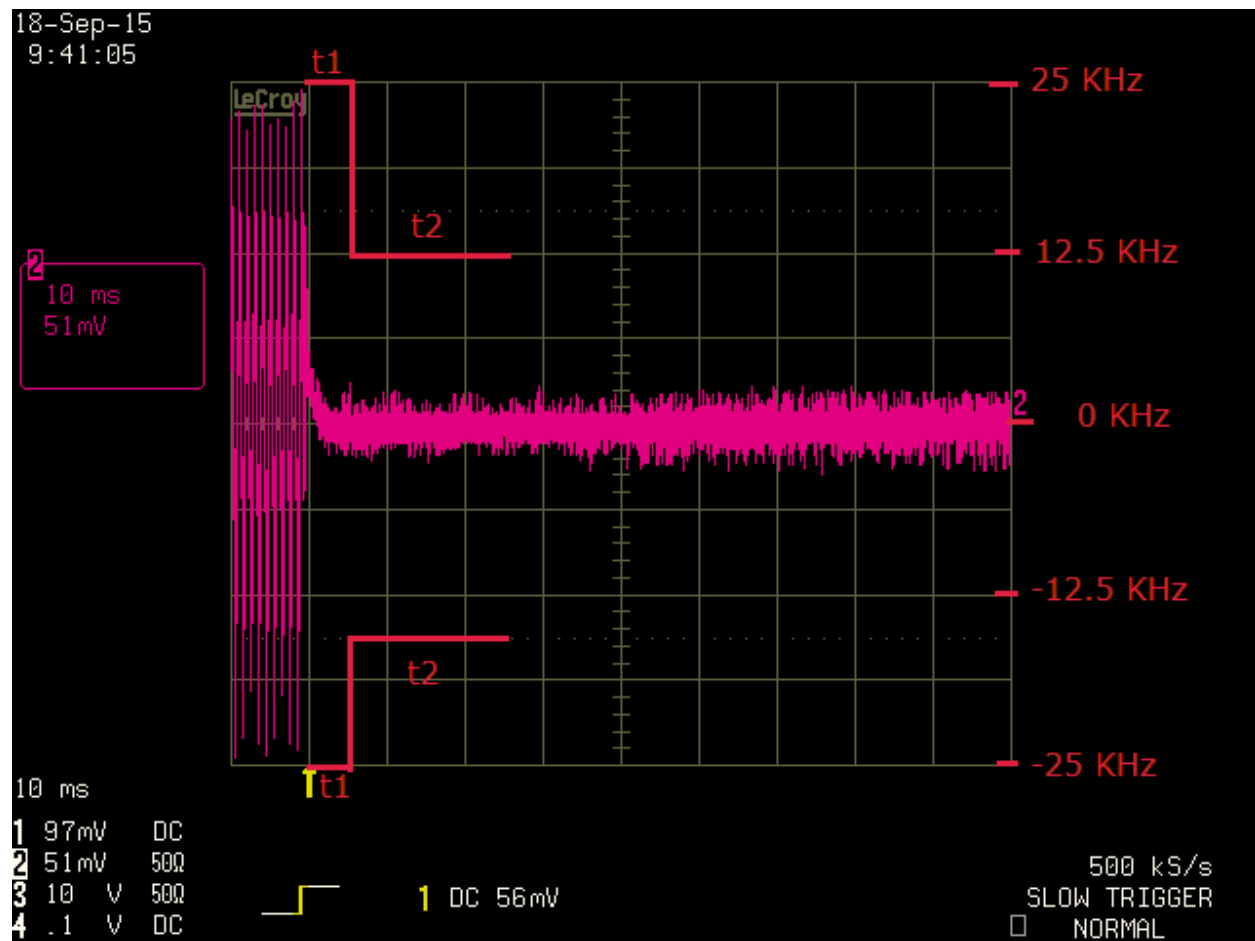


Results meet requirements

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TRANSIENT FREQUENCY RESPONSE

Test Data: 25 KHz Channel Spacing Turn On

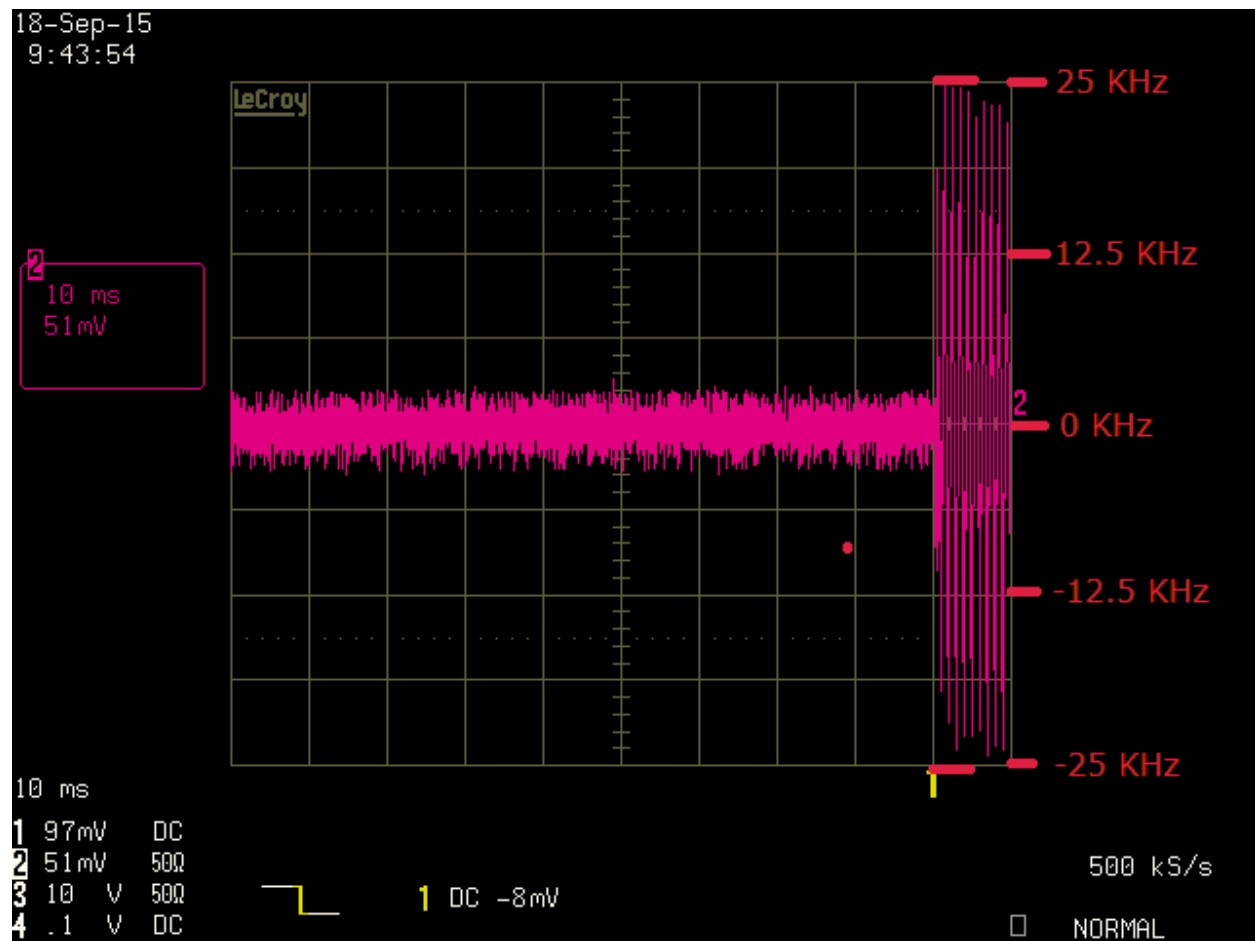


Results meet requirements

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TRANSIENT FREQUENCY RESPONSE

Test Data: 25 KHz Channel Spacing Turn Off



Results meet requirements

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EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
12 Volt Power Supply	Astron 50Amp.	VS-50M	9001191	NA	NA
Antenna: Biconnical Chamber	Eaton Chamber	94455-1	1057	06/14/13	12/14/15
Antenna: Log-Periodic Chamber	Eaton	96005	1243	05/31/13	11/30/15
DC Power Supply	HP	6264B	2032A04119	N/A	N/A
AC Voltmeter	HP	400FL	2213A14728	10/24/15	10/24/17
Digital Multimeter	Fluke	77	35053830	10/21/15	10/21/17
Audio Analyzer	HP	8903B	3011A13084	08/22/13	11/22/15
DC Power Supply	HP	6286A	2411A09414	NA	NA
Frequency Counter Small Chamber	HP	5385A	3242A07460	07/01/15	07/01/17
3-Meter Semi-Anechoic Chamber	Panashield	N/A	N/A	12/31/13	12/31/15
Antenna: Double-Ridged Horn/ETS Horn 1	ETS-Lindgren Chamber	3117	00035923	06/13/14	06/13/16
Small Temperature Chamber	Thermotron Corp.	S1.2 Mini Max	25-1420-09	08/20/14	08/20/16
EMI Test Receiver R & S ESIB 40 Screen Room	Rohde & Schwarz	ESIB 40	100274	08/12/14	08/12/16
Software: Field Strength Program	Timco	N/A	Version 4.0	NA	NA
Antenna: Active Loop	ETS-Lindgren	6502	00062529	10/09/13	12/09/15
Hygro-Thermometer	Extech	445703	0602	06/30/15	06/30/17
Attenuator N 30dB 150W DC-6G	Narda	769-30	10267	06/26/15	06/26/17
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	03/11/14	03/11/16
Signal Generator HP 8648C	HP	8648C	3623A02898	08/29/13	11/29/15

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

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