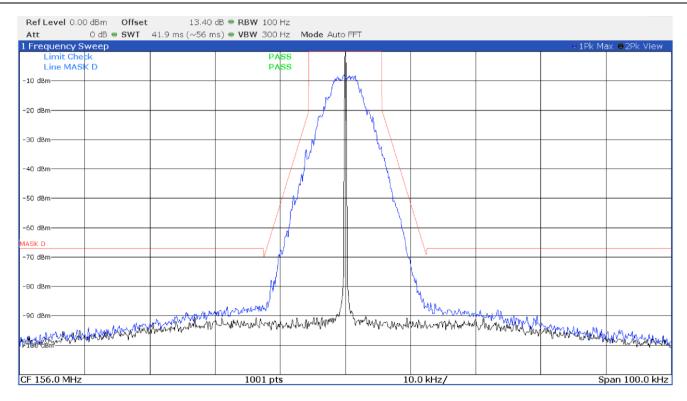


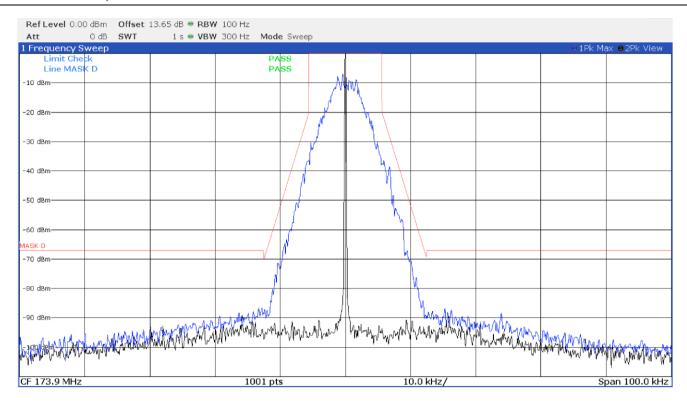
Emission mask D with modulation P25 C4FM at 138.1 MHz





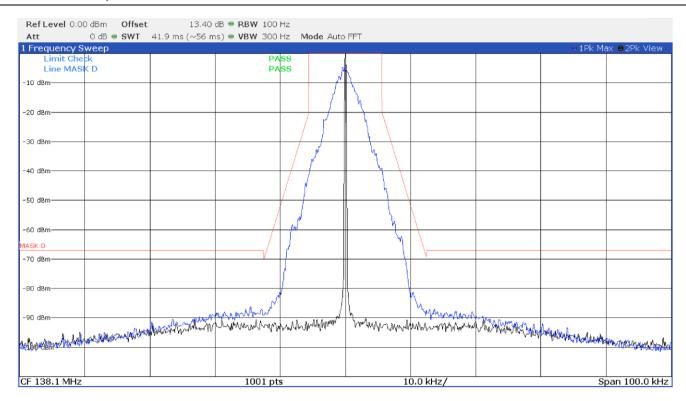
Emission mask D with modulation P25 C4FM at 156.0 MHz





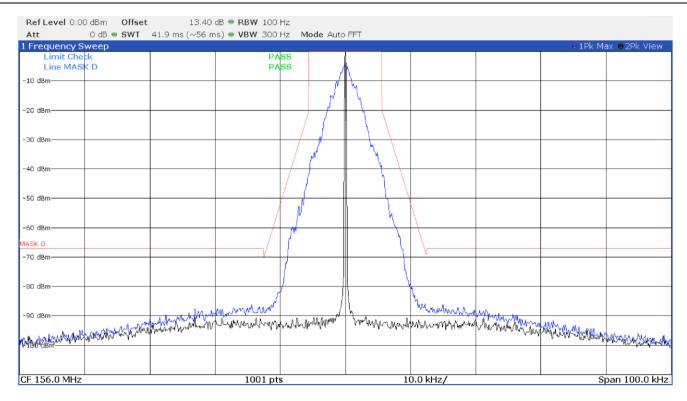
Emission mask D with modulation P25 C4FM at 173.9 MHz





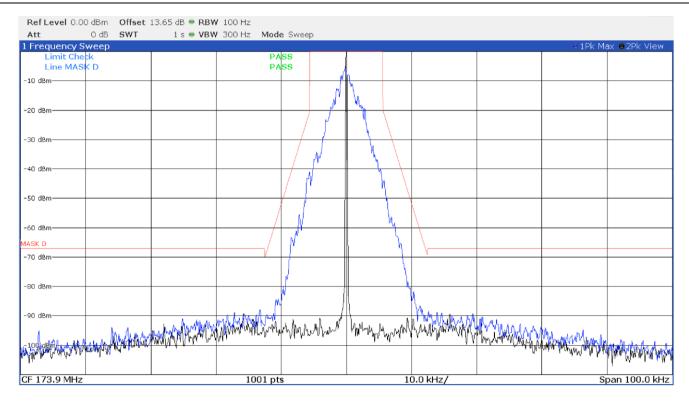
Emission mask D with modulation CST 4FSK at 138.1 MHz





Emission mask D with modulation CST 4FSK at 156.0 MHz

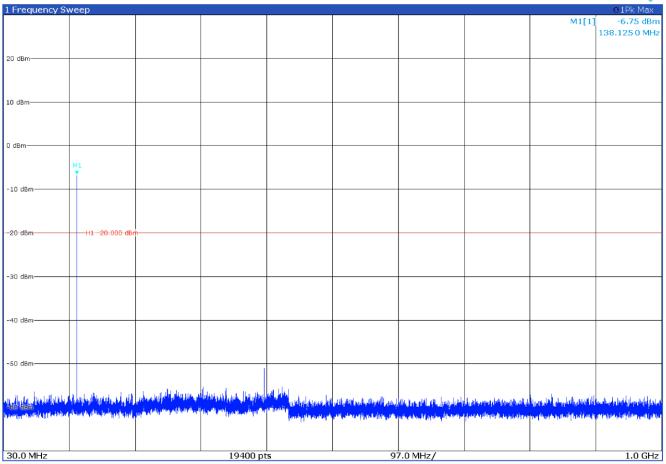




Emission mask D with modulation CST 4FSK at 173.9 MHz







Conducted spurious emissions with modulation DMR 4FSK at 138.1 MHz



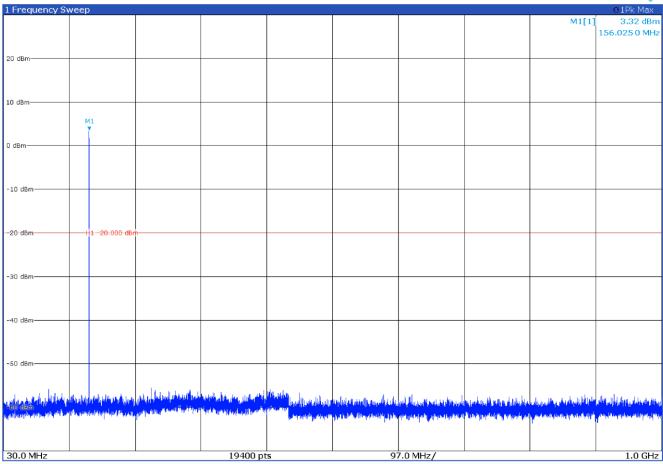


1 Frequency Sv	weep								●1Pk Max
								M1[1]	-47.37 dBm
									1.998 250 GHz
10 dBm-									
0 dBm-									
o dom									
-10 dBm									
-20 dBm	H1 -20.000 dBr	n							
-30 dBm-									
-40 dBm									
									Mi
					1				
red dominates and	بالأبارية الإيارية	demonstrate land	ليانيم وورايان أعرار فيأران	والقريم المادال والأوارات	n g ing apply gallian, le Praulie Pe ir	مزيرناه وطياره المجاوعين ويوالي	والإرواق أفأن لومان فعطناناها	المترابع والمالطان والمرابعونا	40.00
JAPAN JAPAN JAPAN	holl'Makes/Makeshallalidaks/	A. MANAGAL AND WARREN	Children or property and the	Ministrated accidental and be	the dept. Assistantists while as	A school of the elimitation	والوال للطينية والسابية والمختل ومسادي	man de la santa de santa de la seconda d	his bearing a little of the li
2 31 6 31		1		·					
1.0 GHz			2000 pts		10	 0.0 MHz/			2.0 GHz
1.0 GHZ			∠000 pts	•	10	O.O MIDZ/			2,0 002

Conducted spurious emissions with modulation DMR 4FSK at 138.1 MHz







Conducted spurious emissions with modulation DMR 4FSK at 156.0 MHz



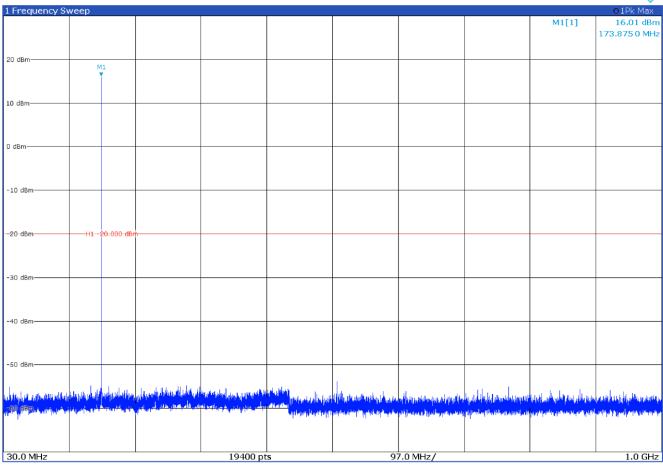


1.411.750 GHz 10.08m 11.20.000 dbm 11.20.000 dbm 10.08m	1 Frequency Sv	veep								●1Pk Max
d8m									M1[1]	-47.22 dBm
										1.411 750 GHz
	10 dBm-									
	0 dBm-									
	-10 dBm									
	10 00111									
FO GBM	-20-dBm	H1 -20.000 dBr	n I							
FO GBM										
FO GBM										
FO GBM										
TO SECURITION AND AND ADDRESS	-30 dBm-									
TO SECURITION AND AND ADDRESS										
TO SECURITION AND AND ADDRESS										
TO SECURITION AND AND ADDRESS										
TO SECURITION AND AND ADDRESS	-40 dBm									
FIRE BOOK TO B	40 ubili									
FIRE BOOK TO B										
The Health of the second of th					M1					
The Health of the second of th		ما ما الله الله	l	r t is docible	والمقامين والألما	والصميحيل واللواريان	lan bala aa aa aa aa	بالمرائية المراسية بالأ	Laka Laka M	والمستهليل والمرادان
	NEW THE WAY WHITE WATER		Marie of the Spain	AND SHAPE AND SH	MANAGEMENT OF THE PROPERTY OF	halfildby-Yip-Arterby Hebrayy groups	A Charliston California de la companio de la California d	MATERIAL SERVICE SERVICES	LibraridilideN ^{dis} vidit, Additis y ^{ke} rgad.	A HATTANA MARKALA ALTONOS LA
0 CHz 2000 bte 100 0 MHz / 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.0 GHz			2000 pts		10	 0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation DMR 4FSK at 156.0 MHz







Conducted spurious emissions with modulation DMR 4FSK at 173.9 \mbox{MHz}



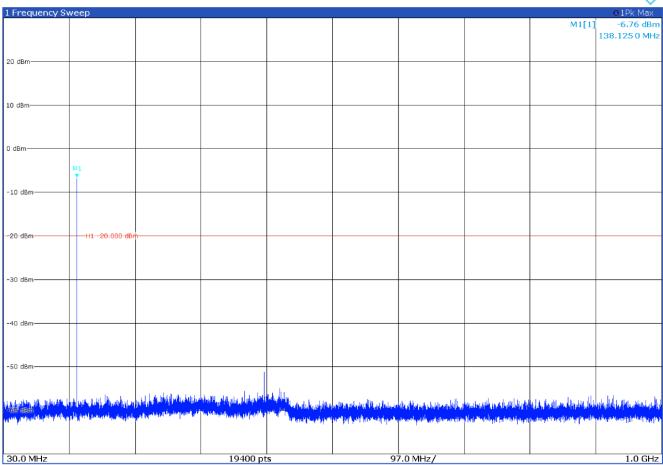


1 Frequency Sv	ween								O 1Pk Max
Triaquality of								M1[1]	-46.87 dBm
									1.990 750 GHz
10 dBm-									
0 dBm-									
-10 dBm-									
00 10									
20-dBm	H1 -20.000 dBr	1							
-30 dBm-									
-40 dBm									
									M1
	La Leo	l	A	المنتقا	alar ar a la disa		والمناه والمناها	H. L. H. 1004	بألفان والعربيات
ASON BONNESS OF THE STATE OF TH		بالإرامية المطابعة المتعالية المتعاربة المتعار	politica discontratore della	HAMARINA PARANTALAN (ANALANIAN ANALAN		erikribitaklikaipitelkaihil	Chilosophilashir	and the state of t	PANTAMAN DAYMAN INTERNATION
1. According to Account]							'	
1.0 GHz			2000 pts	3	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation DMR 4FSK at 173.9 MHz







Conducted spurious emissions with modulation FM 12.5 kHz at 138.1 MHz



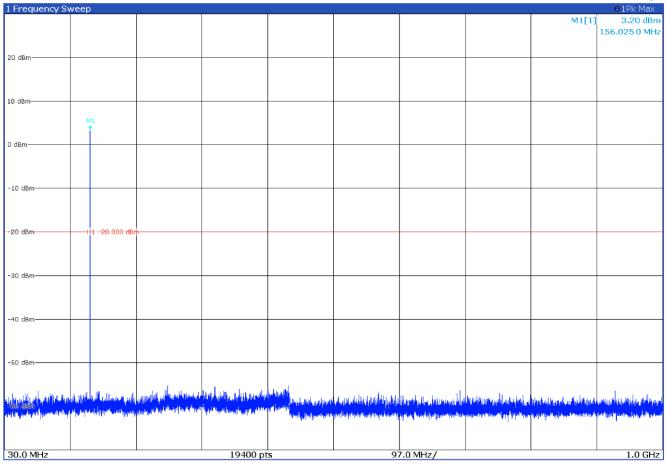


1 Frequency Sv	ween								●1Pk Max
Trieddelley 5	l ccp							M1[1]	-47.00 dBm
									1.973 250 GHz
10 dBm-									
0 dBm-									
-10 dBm									
-20 dBm	H1 -20.000 dBr	n							
-30 dBm-									
30 3511									
-40 dBm									
-40 abm									
									M1
بالطان والمعوقات	والطحالية ليوازي فراجا	Balacit fra	الاسادلام أحاج راجين خر	Laborated Allinon Code	والمراس والمرازان	Audenda Kalananah	Allegania (La Argania)	Land Institute Visi	La construit de la
	ALIMPORTAL MAINTAIN AND AND AND AND AND AND AND AND AND AN	MALLANDON PROPERTY OF CARLONIA	May have been been been been been been been be	A LANGE OF THE PARTY OF THE PAR	Sparket and day	MANAGORA POR PORTOR POR	a translika William A Salawan	A STATE OF STREET	Address of the last of the las
1.0 GHz			2000 pts	5	10	10.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation FM 12.5 kHz at 138.1 MHz







Conducted spurious emissions with modulation FM 12.5 kHz at 156.0 MHz





MI[1]46.79 dBm	1 Frequency Sv	ween								o 1Pk Max
1.988 250 GHz dbm 10 dbm 11 20.000 dbm 10 dbm 10 dbm 11 20.000 dbm 11 20.000 dbm	Trrequency 5	ТССР							М1[1]	
0 dsm										
0 dsm										
0 dsm										
	10 dBm-									
	0 dBm-									
20 dBm H1 - 20 000 dBm										
20 dBm H1 - 20 000 dbm										
20 dBm H1 - 20 000 dBm										
20 dBm H1 - 20 000 dBm	40 40									
	-10 dbm-									
O dBm	-20 dBm	H1 -20.000 dBr	1							
O dBm										
O dBm										
O dBm										
SERVER TO A THE PROPERTY AND A SERVICE AND A	-30 dBm-									
SERVER TO A THE PROPERTY AND A SERVICE AND A										
SERVER TO A THE PROPERTY AND A SERVICE AND A										
SERVER TO A THE PROPERTY AND A SERVICE AND A										
SERVER TO A THE PROPERTY AND A SERVICE AND A	-40 dBm-									
										641
										Y Y
	النياس والمعالا	المرابع المرابع والمرابع المرابع	المحمراء الباسيس	والمنشلين ورجرت وو	عادية بإروبا أفريرنا هامات	and the last after the same	ambiankost, kaleda e	الممالية والمرافعة المناه المناه	المرافعة بالمطافيات المستعددية	والطفيان ويوايع وينهف طوني
	PARAMETER PROPERTY AND PROPERTY	AN THE SHOP IN THE SAME AND THE SAME	Jan Hine Washington	deliberten or bearings for	Manual china hibitra hipposi	hardward American Market Services	Maritha de militar de Alticale	Mary II. as and which the	Mary Landston of harden	A STATE OF THE PERSON OF THE P
.0 GHz 2000 pts 100.0 MHz/ 2.0 GHz	1.0 GHz			2000 pts	L	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation FM 12.5 kHz at 156.0 MHz





									V
1 Frequency Sv	weep								●1Pk Max
								M1[1]	15.94 dBm
									173.875 0 MHz
20 dBm	M1								
	T								
10 dBm									
0 dBm									
-10 dBm									
-20 dBm	H1 -20.000 d	Bm-							
20 30	"								
-30 dBm									
30 UBIII									
-40 dBm-									
-50 dBm									
and the second	Long and a large	ها من ما بالطريق و الروال	المار والمراجع والمناط	الماليال	1.6		۱	L	
ويرأي والمتراول والمتراول والمتراول	ar laranana minusih	Middle Control of the Control	en colonia describi	الأراس المناب البنا الأفاقة	daligate di productiva di la compania di construito di construito di construito di construito di construito di	المساورة والأسار وادرال والزفي والرواوارية	let pet per station in the letter of the	فقراره فلفعل ووزيا أفرعان أراأ المتنافي والأ	وأدرالين البراز المتراوات وأأمنا وتراوي
-60 dBm	A CONTRACTOR OF THE PARTY OF TH	والمهال والموافقة الموافقة الم	The state of the s	rachesi di ba	atomical Book Association of Re-	altribliance or the Lord post dist	Martin Hill resident dispusse un	Hark timitely high a thronis a con-	this publicate their system of
the second of the				he all constitute	and the standard	Secretary and a second of party of a 1	. was characters	he share he may a safe a	and constructed lighters
30.0 MHz			19400 pt		0-	 7.0 MHz/			1.0 GHz
20.0 MILIS			19400 pt	.5	9.	7.0 MINZ/			1.0 GHZ

Conducted spurious emissions with modulation FM 12.5 kHz at 173.9 MHz



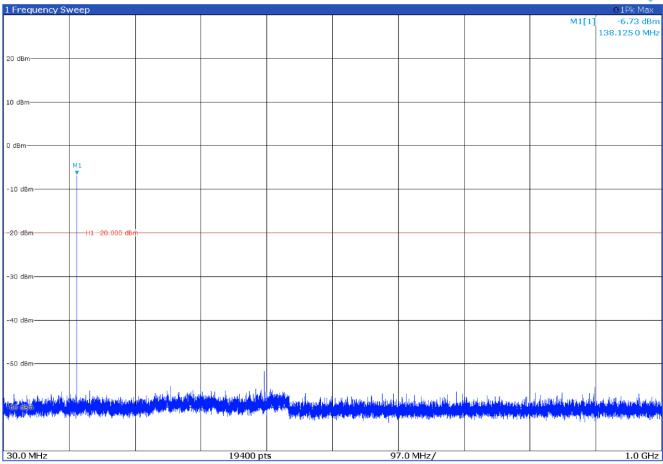


1 Frequency Sv	weep								O 1Pk Max
								M1[1]	-46.52 dBm
									1.614250 GHz
10 dBm-									
0 dBm-									
-10 dBm-									
-10 ubiii									
-20 dBm	H1 -20.000 dBr	1							
-30 dBm-									
-40 dBm-									
						M1			
	l					, Torriginal Control			1 1
والمفاطين ويراجي والإلاطال	es los ildibidiscionalità	فالطاول والمراكبة والمامية	Mary and the standard of the s	AND LANGE BEARING TO SERVICE	والمالية المراطات المتعددية المردين	hidleroughlyagulahiddh	handriy (Jahrilan aya bili kirilan (train-contract the soul	ALAMPATA AMARAMANA JAMPANA
المقليد وبالمراهيات وبالكياب	Marking	to the differential back on it	transfer of the same	. I ulk a u a tit	A THE PART OF THE	1 1 11 1 11	A Line Live Leave	, , , , , , , , , , , , , , , , , , , ,	""
1.0 GHz			2000 pts	; ;	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation FM 12.5 kHz at 173.9 MHz







Conducted spurious emissions with modulation FM 25 kHz at 138.1 MHz



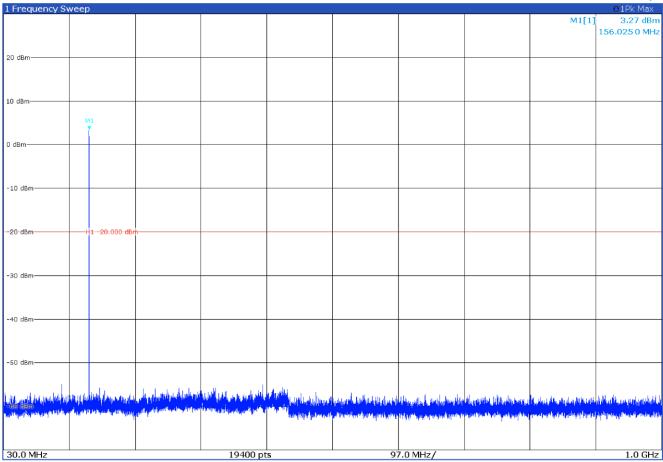


1 Frequency Sv	weep								O 1Pk Max
								M1[1]	-46.56 dBm
									1.680 750 GHz
10 dBm-									
0 dBm-									
-10 dBm-									
20-dBm-	H1 -20.000 dBr								
-20 ubiii	111 -20.000 ubi								
-30 dBm									
-40 dBm-									
						M1			
		H		L		I . I.			
MSQLEB military LANGE	Marin	Paris allowed by the second	Anapately and the party like and the		الرام بالمريد والارم أورام في المرار إلى	ity reptatility diseleralisidade, aga	CALLEGE PARTY OF THE PARTY OF T	Adamida kajida ara la ari	talantan later later bet
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1.0 GHz			2000 pts	3	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation FM 25 kHz at 138.1 MHz







Conducted spurious emissions with modulation FM 25 kHz at 156.0 MHz



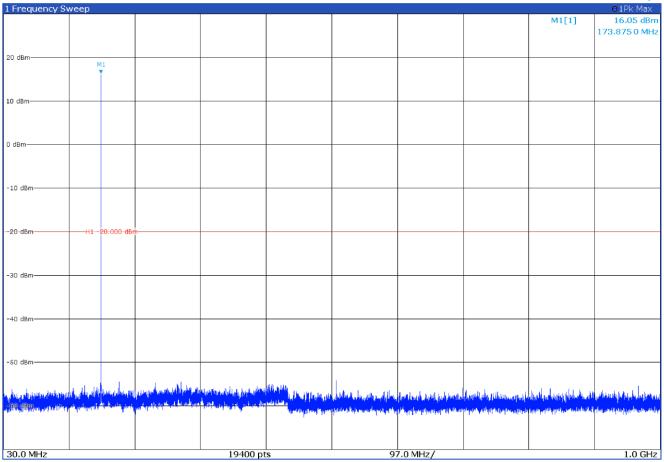


1 Frequency Sv	weep								O 1Pk Max
								M1[1]	-46.97 dBm
									1.746 250 GHz
40.10									
10 dBm-									
0 dBm-									
-10 dBm-									
-10 dbm-									
20-dBm-	H1 -20.000 dBr								
-20 dbm	H1 -20.000 dBr								
-30 dBm									
-30 dBM									
-40 dBm									
TO UDIII									
							M1		
							T T		
luda damba da kula	المرافق المستحدث المس	المراق والمراقات	and the state of the last	and the state of the state of	المتعقلة والمحجد المقطوع	والأمار المرابط والمرابط والمرابط المرابط	للمنتب واحاستانا فالت	والمراجع والمراجع والمراجع والمراجع	Lander by the fill the
THE RESIDENCE OF THE PROPERTY OF THE PERSON NAMED IN COLUMN TWO PERSONS ASSESSED.	Adding Addition and Make A Bediding	minimum drack coldinate Application	وموطوقون فأفلس فانتهم والأمالة	a I. d. a. da danak di bank daya (da)	Applied day into a section body	Lite undahmentant beleite.	Control of the Country of the Country	La nala canta la constituta del la la constitución de la constitución	other ball and a control of the cont
1.0 GHz			2000 pts	3	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation FM 25 kHz at 156.0 MHz







Conducted spurious emissions with modulation FM 25 kHz at 173.9 MHz



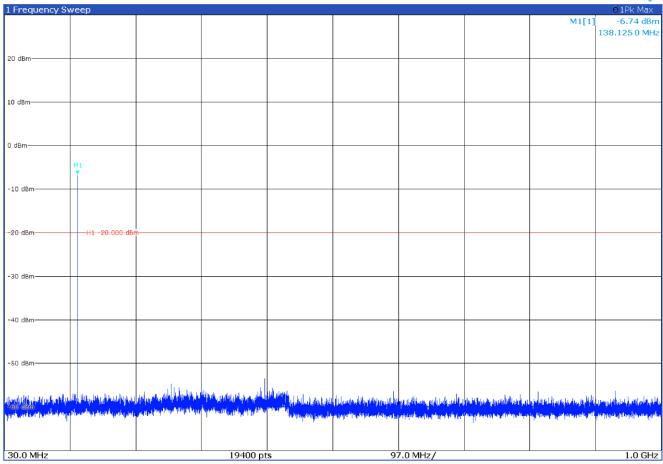


									V
1 Frequency Sv	weep								o1Pk Max
								M1[1]	-46.77 dBr
									1.964 750 GH
10 dBm									
dBm									
-10 dBm									
-20-dBm	H1 -20.000 dBr								
-20 asm	H1 -20.000 dBr	1							
-30 dBm									
-40 dBm									
									M1
100			The section of the	Lancara	La contraction	action to the Action	العصادة والمسا	Large de la constante	الماديات والمراديات
ASSURBING WILLIAM	الواوال والمحاولة والواوال المراوع الم	Marie Ma		MANAGAN PARTITION OF THE PARTITION OF TH	Later and Association of the physical states.	PATRICK PARTINISHED TO THE PARTINISH	A PHILIPPENIA CHAIGH A PARA	PANHAPAYAHAHAHAHAHA	MATERIAL AND
Commenced of the control of the Child	And by distribution and all	wine and the state of the state	males as a late of a constant	1 400	3 45 15 54	1		J	
1.0 GHz			2000 pts	5	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation FM 25 kHz at 173.9 MHz







Conducted spurious emissions with modulation P25 C4FM at 138.1 MHz



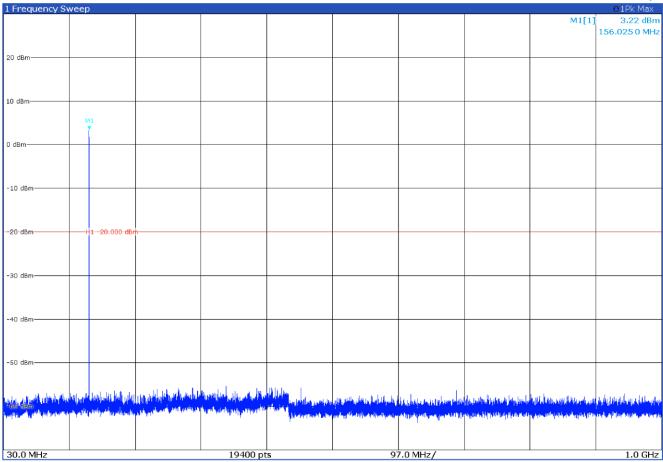


1 Frequency Sv	ween								O 1Pk Max
Trrequency 5	исср							M1[1]	-47.03 dBm
								[2]	1.602 750 GHz
10 dBm-									
0 dBm-									
-10 dBm-									
an in									
-20-dBm	H1 -20.000 dBr	1							
-30 dBm-									
-40 dBm-									
-40 UBIII									
					1	11			
, ,			Land Land	o cantara Ch	etro dia con	بالماني الأرسالانيا	Oran Lake	la street	ماسالهم برازا المراز
WEP REPORT TO THE PARTY OF THE	PARTITION OF THE PARTY AND ADDRESS OF THE PART	PATRICA SANTAGE SANTAGE		Yanay kiri Lilliada danla	┩┪ ┩╃ ┡ ╾┺╌┩╃┪╱╫	htsachelade de distribute	Birth BM Takendeler Albertaler aggle	Contracting the Alabaia	<mark>lift de d'a l'ord de lift de d'a traise, alte, a sain</mark> ,
. ortenday d		I sandian, A.,							
1.0 GHz			2000 pts	3	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation P25 C4FM at 138.1 MHz







Conducted spurious emissions with modulation P25 C4FM at 156.0 MHz



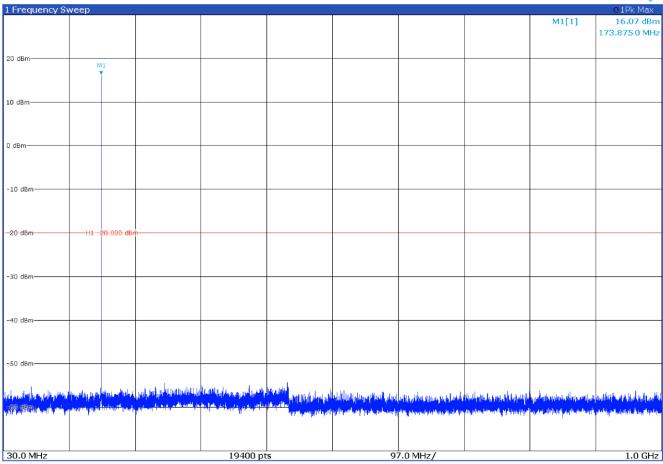


1 Frequency Sv	weep								O 1Pk Max
								M1[1]	-47.05 dBm
									1.939 250 GHz
10 dBm-									
0 dBm-									
0 40									
-10 dBm-									
-20-dBm	H1 -20.000 dBr	n							
-30 dBm-									
40 40									
-40 dBm									
									M1
		No. 1 and the second	er de Lawer	به بازین بازین	Lithtadi accasas	Andrea Maria Anton Anton Andrea Anton A	الماري المساير المسا	المرتوان إلايان المطال	بالمنسوريل أأريين بالا
MESSY SETTLE PRODUCTION	Managatar barlay day tahah addar b	Marith who had been positive on the	Marie Charles de la Company de	habiraja dajartahan, fundisi		kulludu Mikalu Mithulisandi n		Attitud kästruptoit u etteliniteritiite se	MANAGEM PARTICIPATION AND INC. BA
and the second of		1 17 7 17 1							
1.0.00			2000 1-		10	O O MI I = /			2.0.61.1-
1.0 GHz			2000 pts	5	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation P25 C4FM at 156.0 MHz







Conducted spurious emissions with modulation P25 C4FM at 173.9 MHz



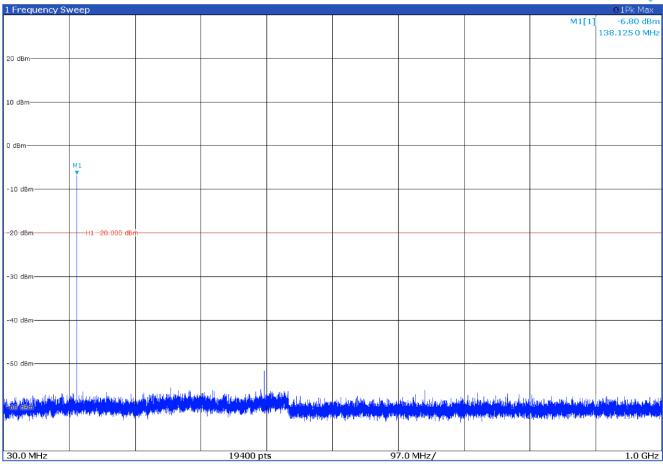


1 Frequency S	weep								O 1Pk Max
								M1[1]	-46.39 dBm
									1.666 250 GHz
10 dBm-									
0 dBm-									
-10 dBm									
-20 dBm	H1 -20.000 dBr	1							
-30 dBm									
-40 dBm									
						M1			
	ı			I		Lora I a			al tal comment.
ASB BERTLAND	Here was being being bereite	Maria Maria		to the collection in	till gilder fra fra fra fra fra fra fra fra fra fr	htter/liktor/withtherhite	Transportation (Microsologian Michigan)	Hillian Albertana, contesti	MARKAN MARKANINA
dealer and statement of	Anna Market Control	بالطين المالط الأنتياطان والما	and miles and a second			[. , , , , , , , , , , , , , , , , , , ,	
1.0 GHz			2000 pts	i	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation P25 C4FM at 173.9 MHz







Conducted spurious emissions with modulation CST 4FSK at 138.1 MHz $\,$



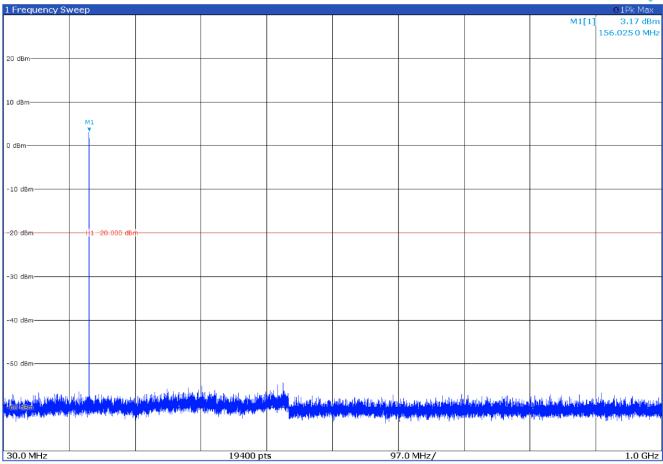


1 Frequency Sv	weep								O 1Pk Max
								M1[1]	-47.22 dBm
									1.243 250 GHz
10 dBm-									
0 dBm-									
-10 dBm-									
-20-dBm	H1 -20.000 dBr	n							
-30 dBm-									
00 40									
-40 dBm									
-40 GBM									
		M1							
المان بمريونية	التنصيات بيستاجا	بالمصارات للمتطال	بالتالينان بين	ladan et tarba	Lichard and based	والمراب والمرافع والمرابط والمرابط	فالما والمهام والأرافي وأ	a rola akakakan mel	المنطقة المنطقية المناجي المناجي المناجي المناجي المناجع المناطقة المناطقة المناطقة المناطقة المناطقة المناطقة
head about he was their	All All Alexander of the All All All All All All All All All Al	Maryad Aphal-Lalis Albanda Maryada	AND REPORTED IN THE PARTY AND	house out the life of the body	drille A belonde and a star	But mark to the work of hole at the	James As Walter to Annie	Manager of Manager of Street Principal	Milatin Resident States
1.0 GHz		l	2000 pts	i	10	0.0 MHz/			2.0 GHz

Conducted spurious emissions with modulation CST 4FSK at 138.1 MHz







Conducted spurious emissions with modulation CST 4FSK at 156.0 MHz





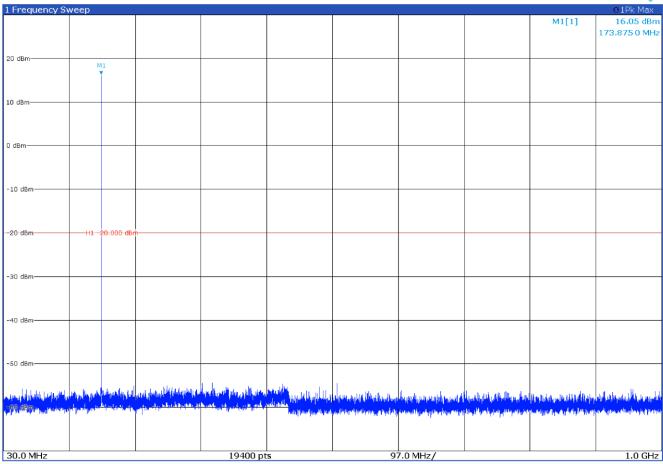
1 Frequency Sv	ween								O 1Pk Max
Trrequency 51	ТССР							M1[1]	-47.32 dBm
									1.975 250 GHz
10 dBm-									
0 dBm-									
-10 dBm									
-10 GBM									
-20 dBm	H1 -20.000 dBr	1							
-30 dBm-									
-40 dBm-									

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Conducted spurious emissions with modulation CST 4FSK at 156.0 MHz







Conducted spurious emissions with modulation CST 4FSK at 173.9 MHz

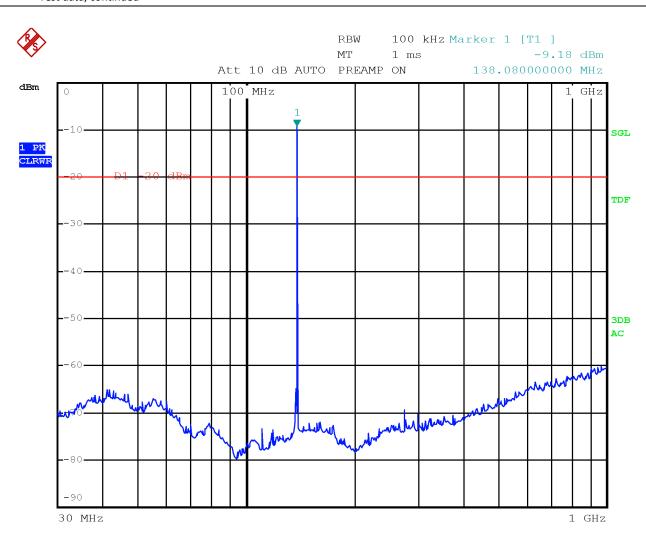




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Conducted spurious emissions with modulation CST 4FSK at 173.9 MHz

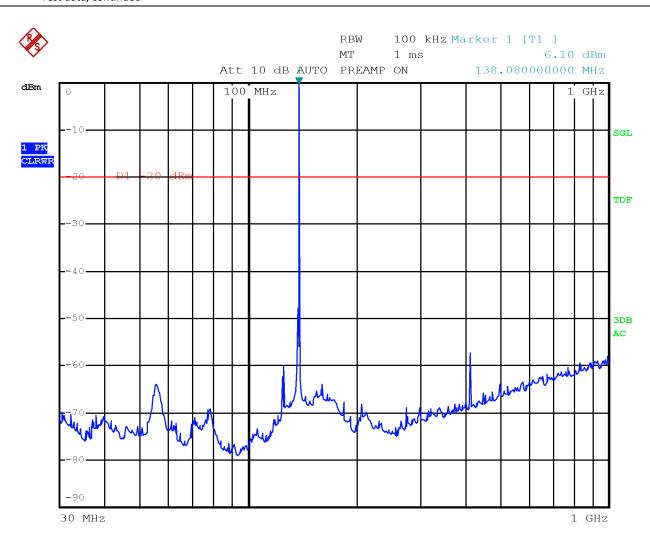




Radiated spurious emissions with modulation DMR 4FSK at 138.1 MHz - Antenna in horizontal polarization Limit exceeded by the carrier

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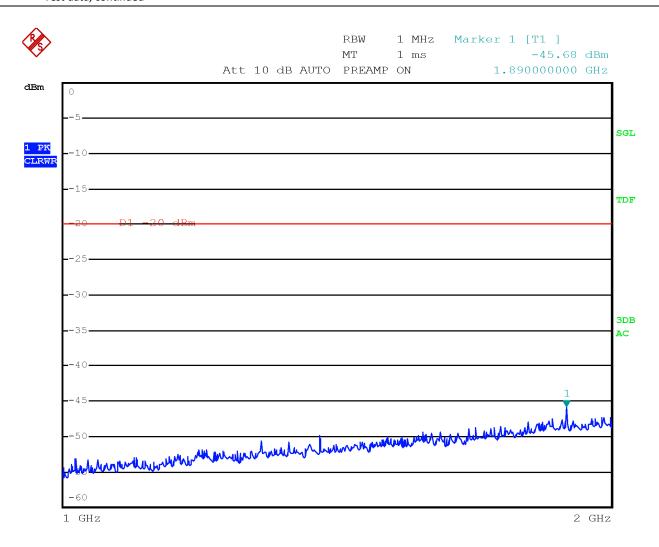




Radiated spurious emissions with modulation DMR 4FSK at 138.1 MHz - Antenna in vertical polarization Limit exceeded by the carrier

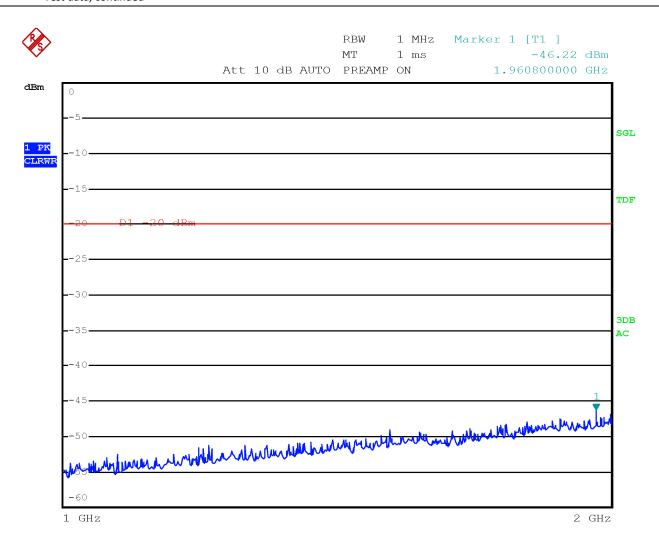
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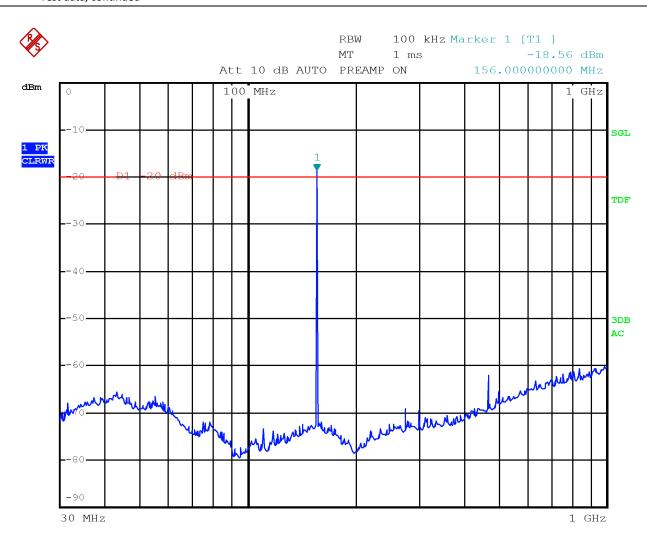
Radiated spurious emissions with modulation DMR 4FSK at 138.1 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation DMR 4FSK at 138.1 MHz – Antenna in vertical polarization

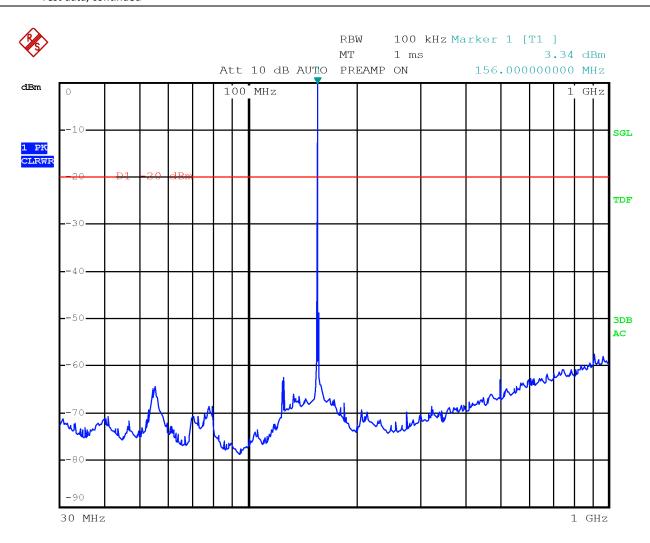




Radiated spurious emissions with modulation DMR 4FSK at 156.0 MHz - Antenna in horizontal polarization Limit exceeded by the carrier

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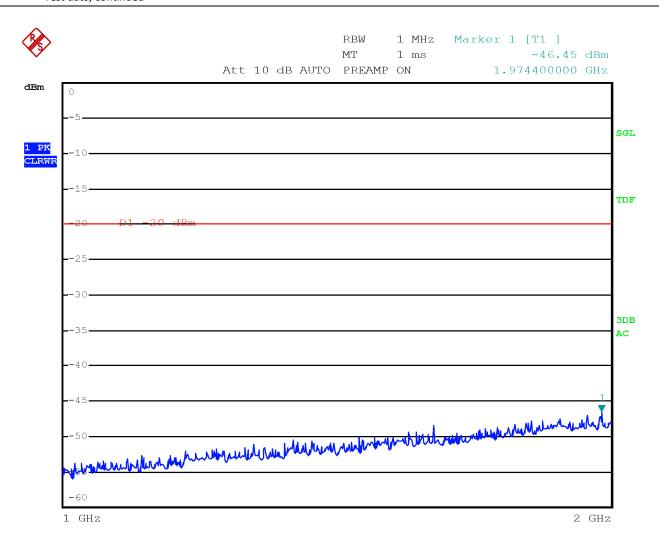




Radiated spurious emissions with modulation DMR 4FSK at 156.0 MHz - Antenna in vertical polarization Limit exceeded by the carrier

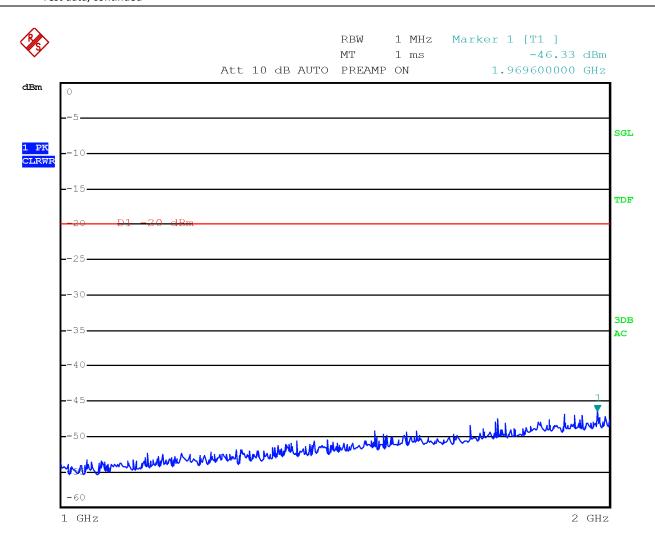
Report reference ID: REP016466 Page 109 of 175





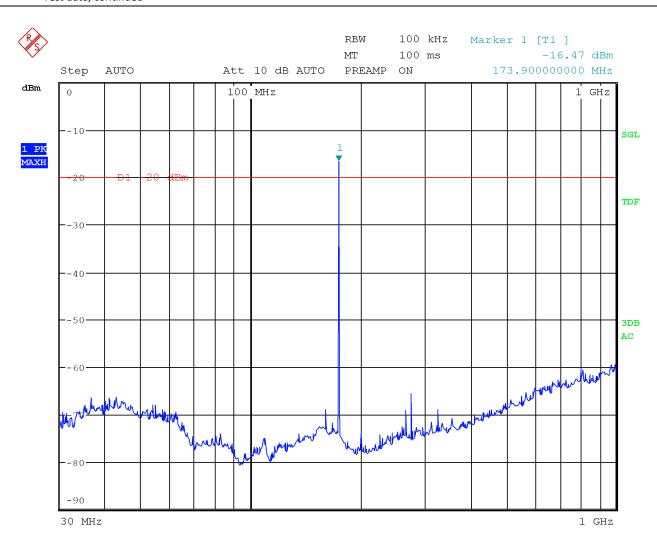
Radiated spurious emissions with modulation DMR 4FSK at 156.0 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation DMR 4FSK at 156.0 MHz – Antenna in vertical polarization

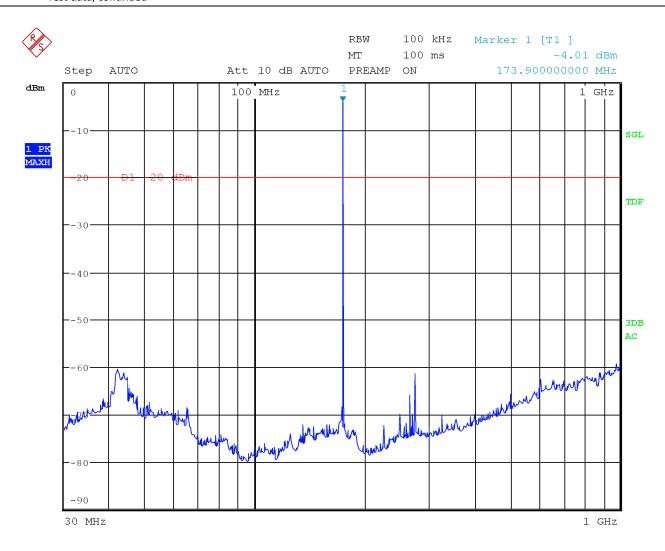




Radiated spurious emissions with modulation DMR 4FSK at 173.9 MHz – Antenna in horizontal polarization

Limit exceeded by the carrier

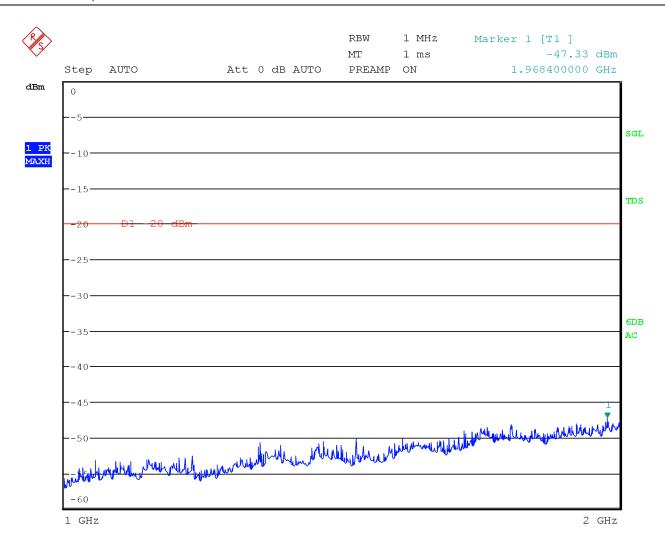




Radiated spurious emissions with modulation DMR 4FSK at 173.9 MHz - Antenna in vertical polarization Limit exceeded by the carrier

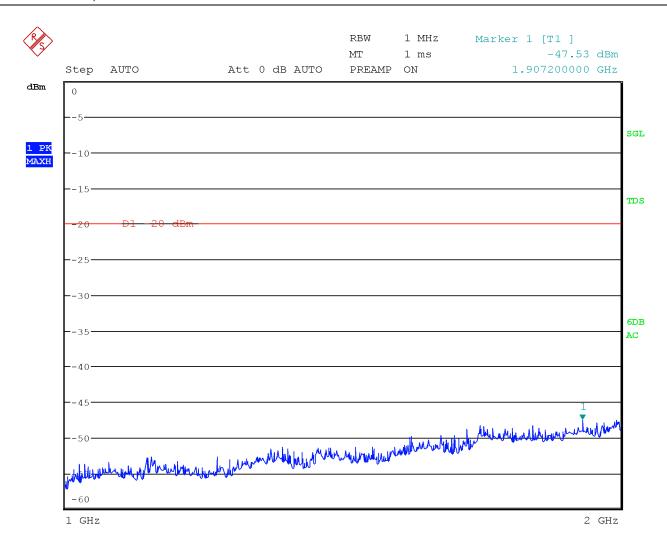
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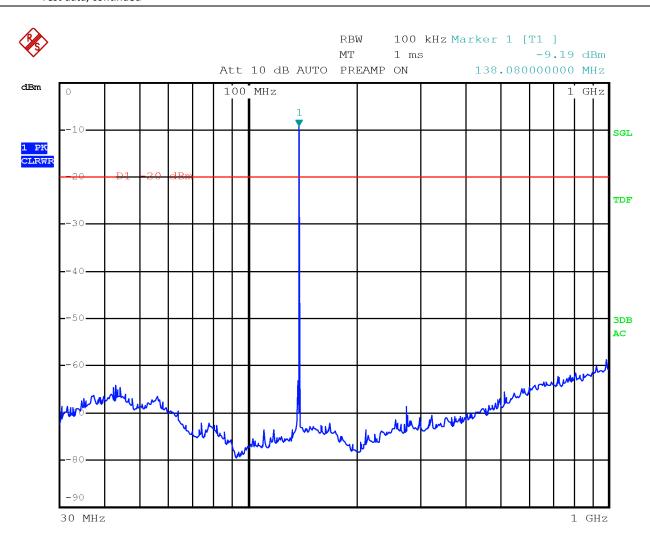
Radiated spurious emissions with modulation DMR 4FSK at 173.9 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation DMR 4FSK at 173.9 MHz – Antenna in vertical polarization

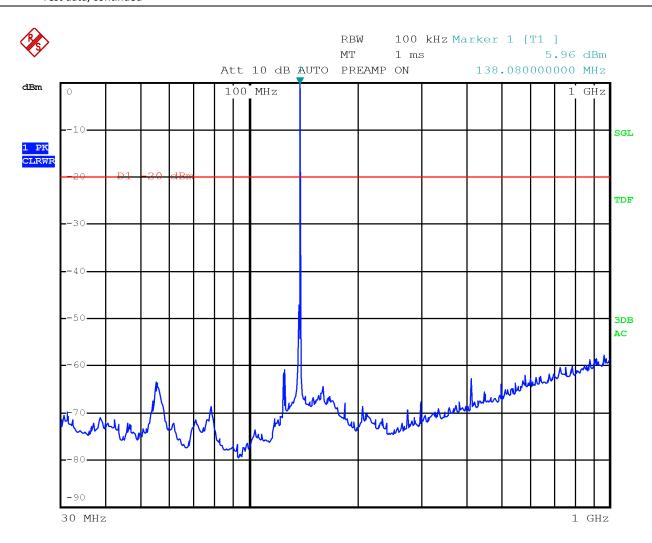




Radiated spurious emissions with modulation FM 12.5 kHz at 138.1 MHz – Antenna in horizontal polarization $Limit\ exceeded\ by\ the\ carrier$

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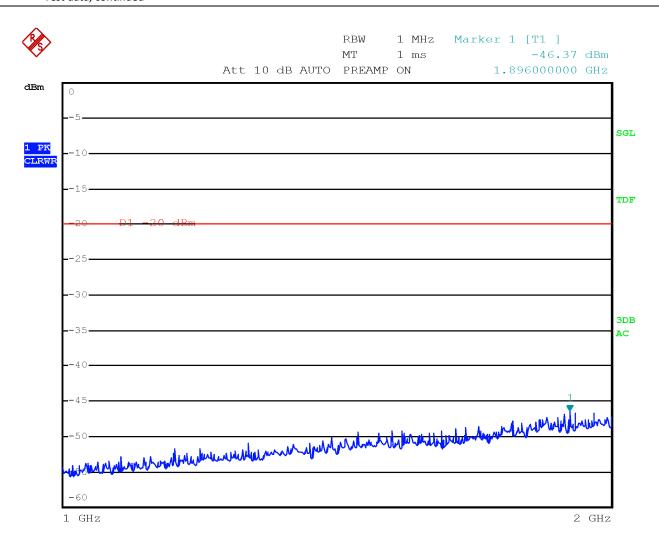




Radiated spurious emissions with modulation FM 12.5 kHz at 138.1 MHz - Antenna in vertical polarization Limit exceeded by the carrier

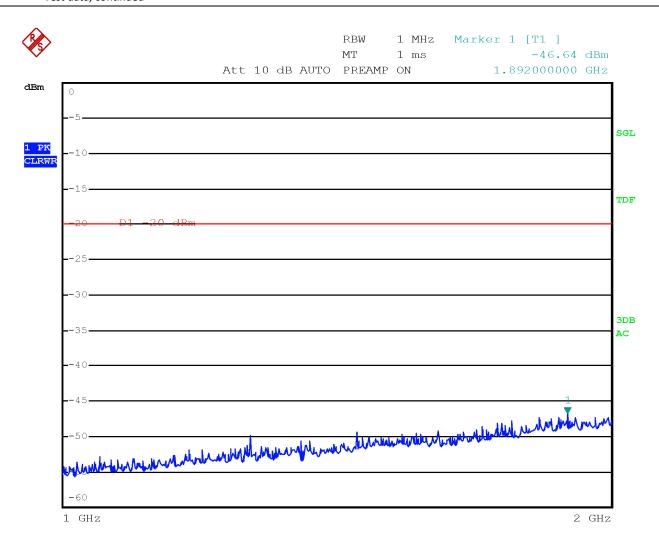
Report reference ID: REP016466 Page 117 of 175





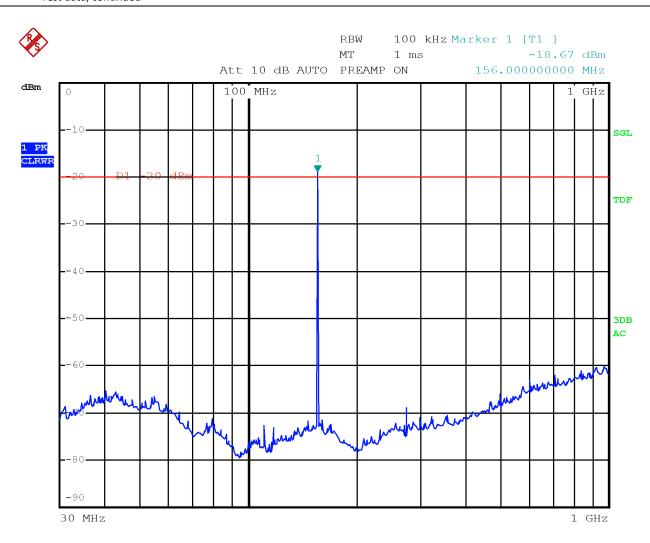
Radiated spurious emissions with modulation FM 12.5 kHz at 138.1 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation FM 12.5 kHz at 138.1 MHz – Antenna in vertical polarization

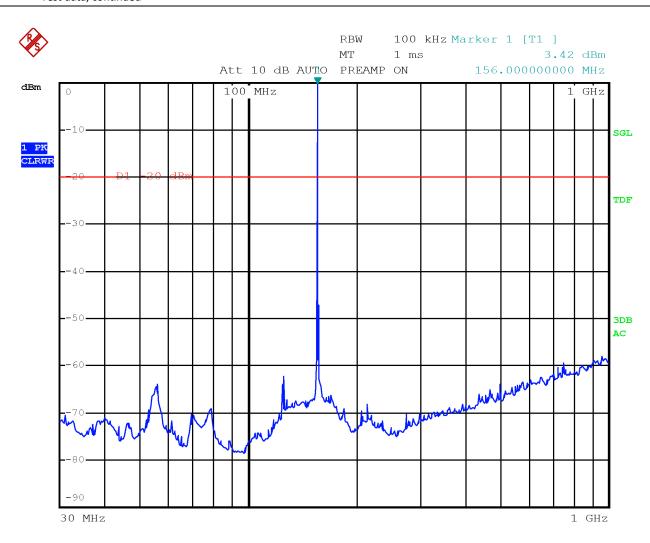




Radiated spurious emissions with modulation FM 12.5 kHz at 156.0 MHz – Antenna in horizontal polarization $Limit\ exceeded\ by\ the\ carrier$

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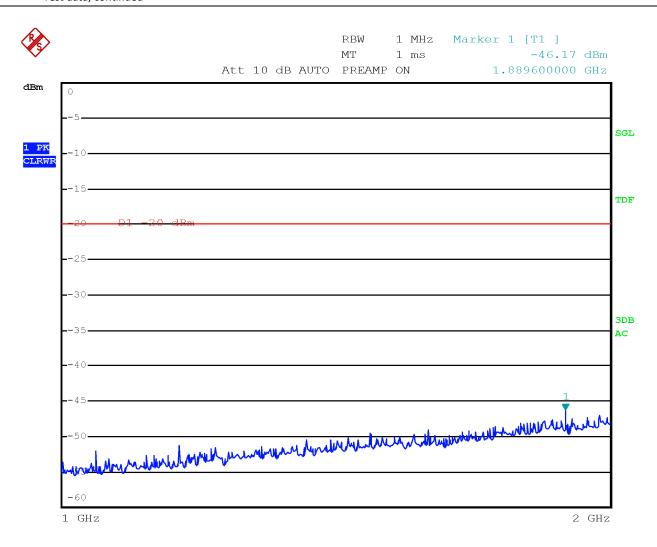




Radiated spurious emissions with modulation FM 12.5 kHz at 156.0 MHz - Antenna in vertical polarization Limit exceeded by the carrier

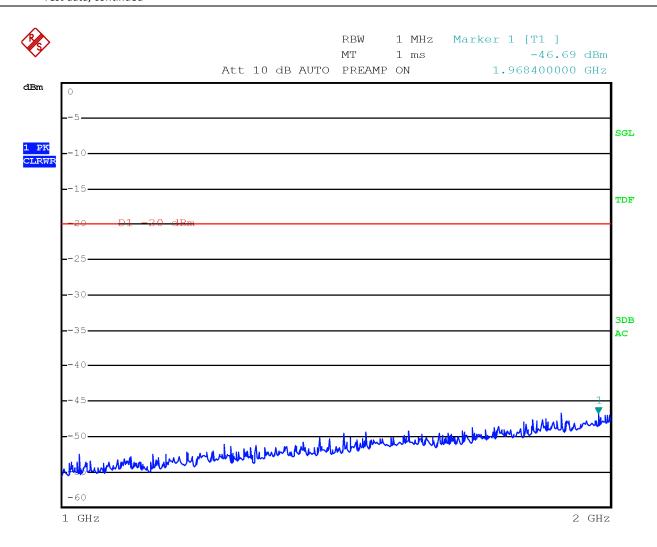
Report reference ID: REP016466 Page 121 of 175





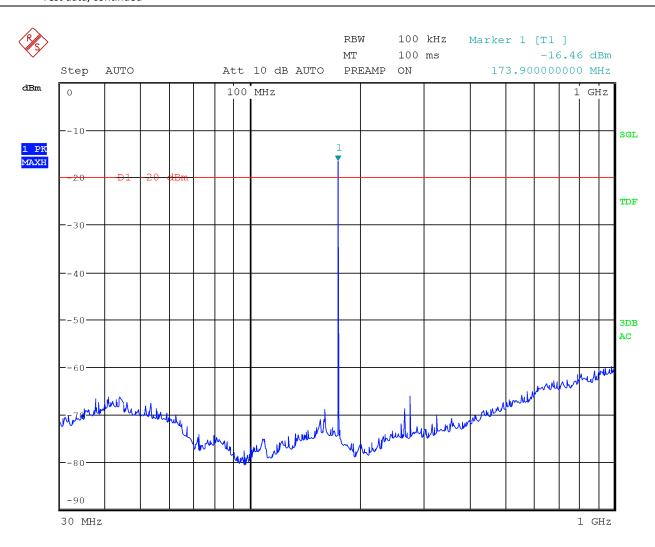
Radiated spurious emissions with modulation FM 12.5 kHz at 156.0 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation FM 12.5 kHz at 156.0 MHz – Antenna in vertical polarization

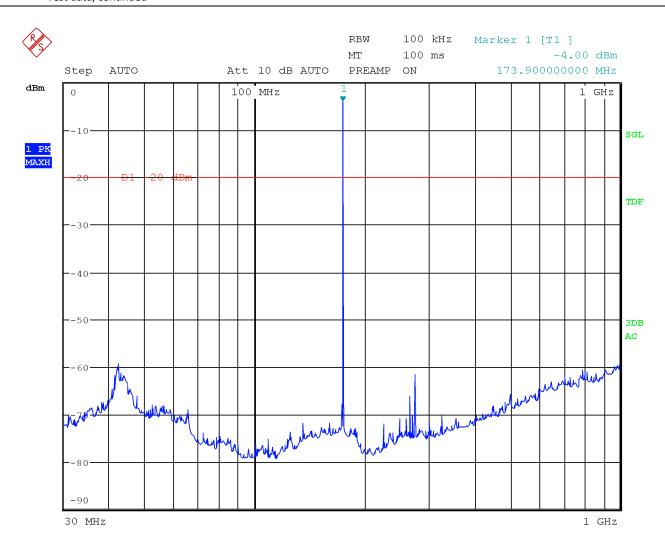




Radiated spurious emissions with modulation FM 12.5 kHz at 173.9 MHz – Antenna in horizontal polarization $Limit\ exceeded\ by\ the\ carrier$

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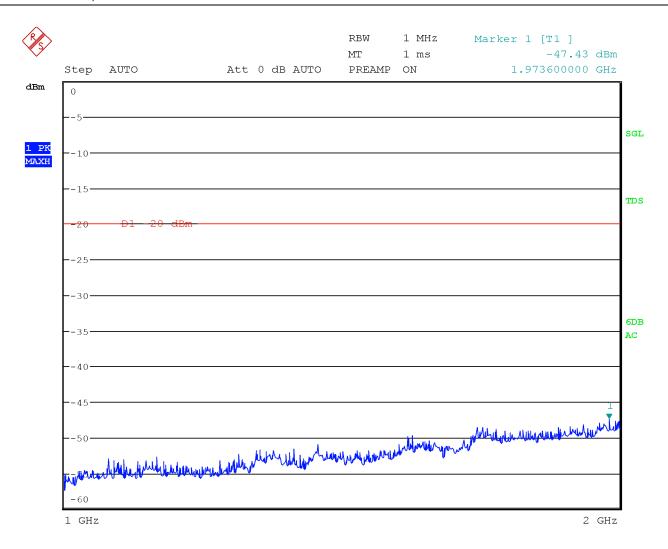




Radiated spurious emissions with modulation FM 12.5 kHz at 173.9 MHz – Antenna in vertical polarization

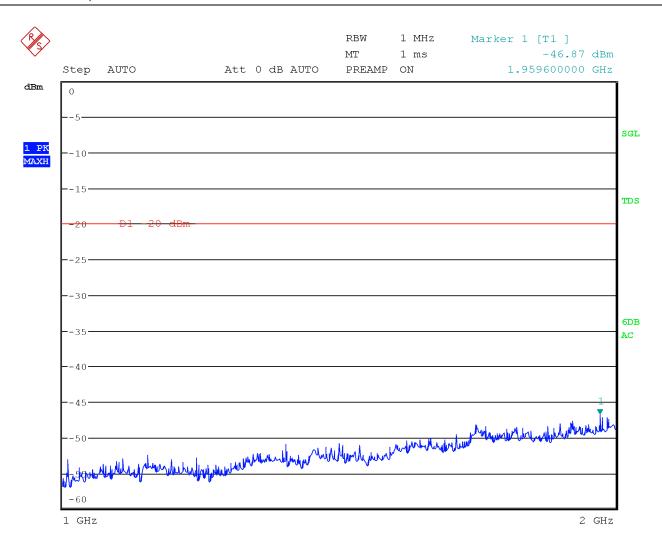
Limit exceeded by the carrier





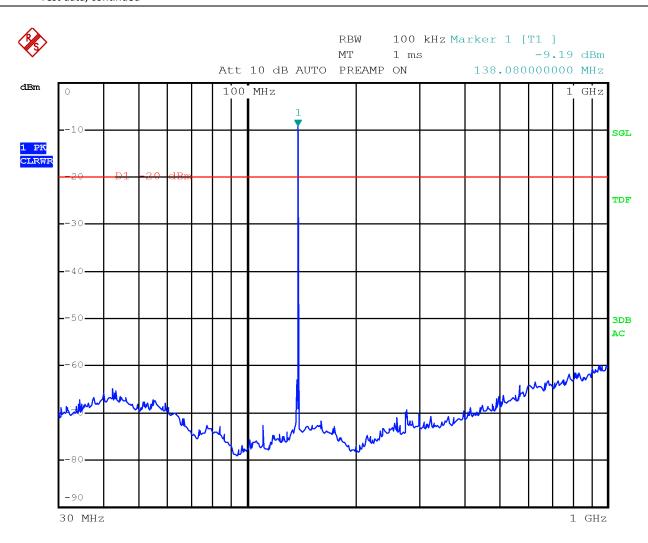
Radiated spurious emissions with modulation FM 12.5 kHz at 173.9 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation FM 12.5 kHz at 173.9 MHz – Antenna in vertical polarization

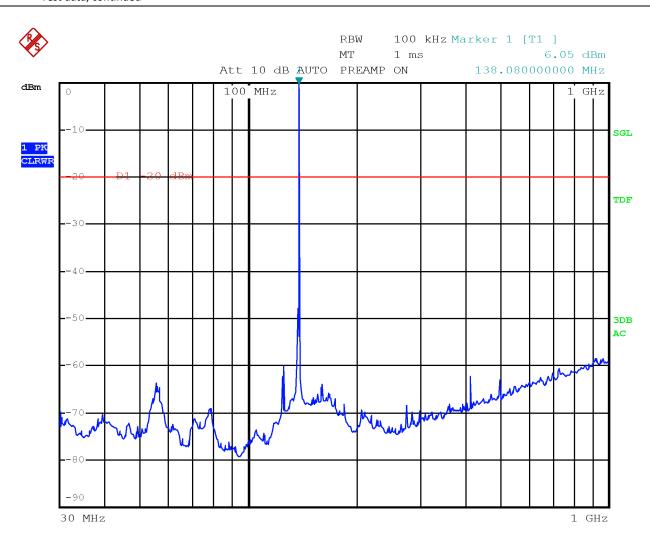




Radiated spurious emissions with modulation FM 25.0 kHz at 138.1 MHz – Antenna in horizontal polarization $Limit\ exceeded\ by\ the\ carrier$

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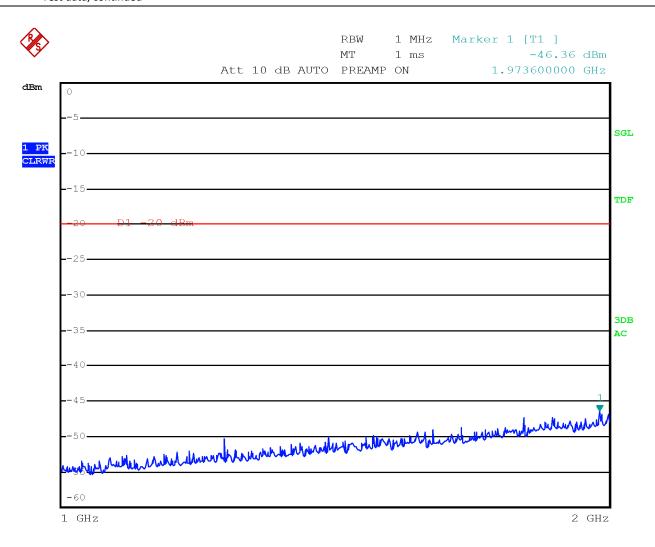




Radiated spurious emissions with modulation FM 25.0 kHz at 138.1 MHz - Antenna in vertical polarization Limit exceeded by the carrier

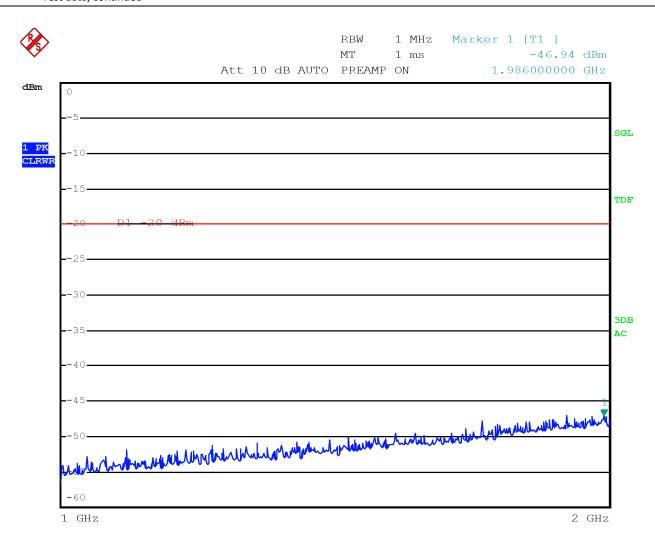
Report reference ID: REP016466 Page 129 of 175





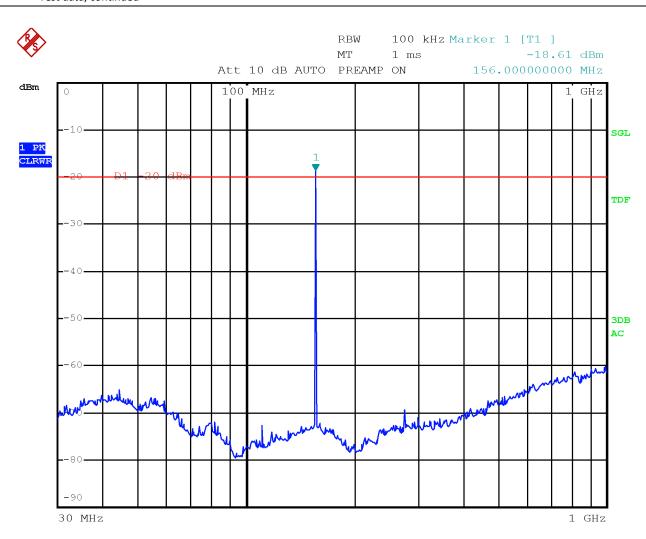
Radiated spurious emissions with modulation FM 25.0 kHz at 138.1 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation FM 25.0 kHz at 138.1 MHz – Antenna in vertical polarization

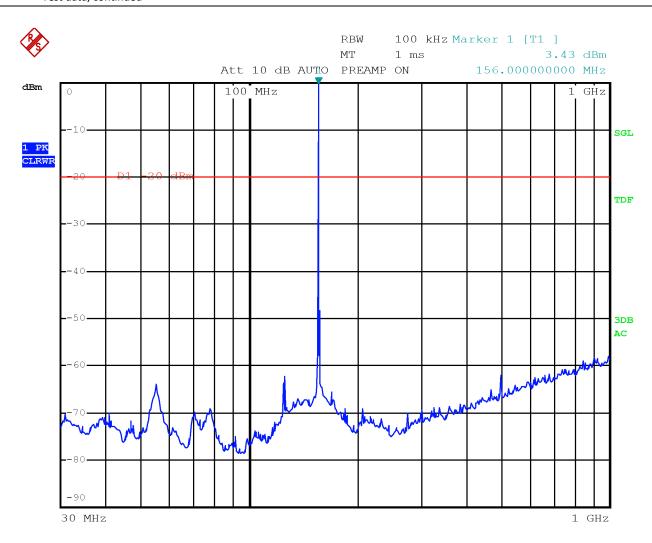




Radiated spurious emissions with modulation FM 25.0 kHz at 156.0 MHz – Antenna in horizontal polarization $Limit\ exceeded\ by\ the\ carrier$

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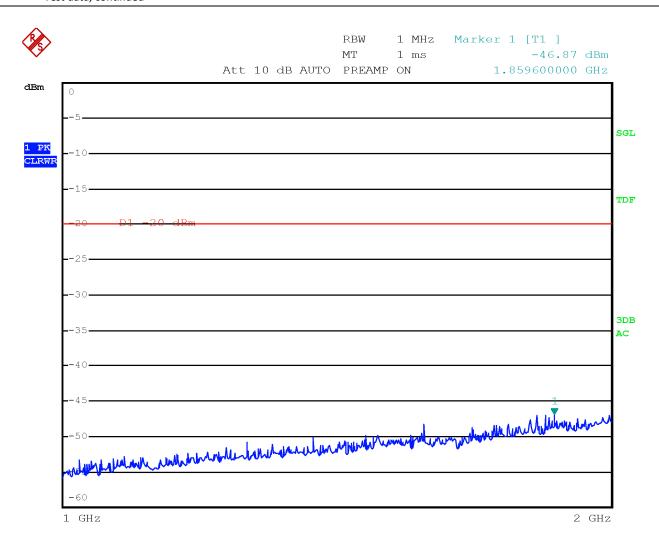




Radiated spurious emissions with modulation FM 25.0 kHz at 156.0 MHz - Antenna in vertical polarization Limit exceeded by the carrier

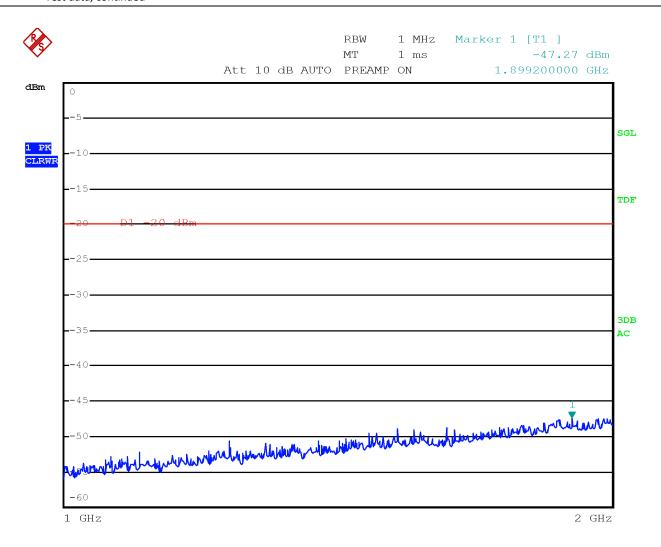
Report reference ID: REP016466 Page 133 of 175





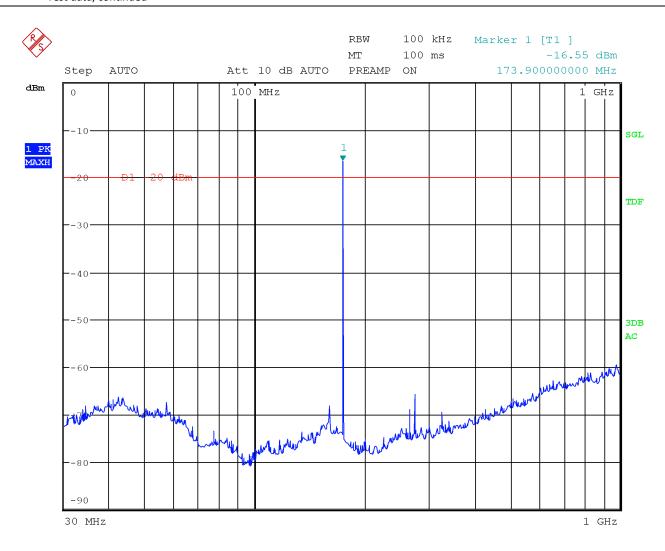
Radiated spurious emissions with modulation FM 25.0 kHz at 156.0 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation FM 25.0 kHz at 156.0 MHz – Antenna in vertical polarization

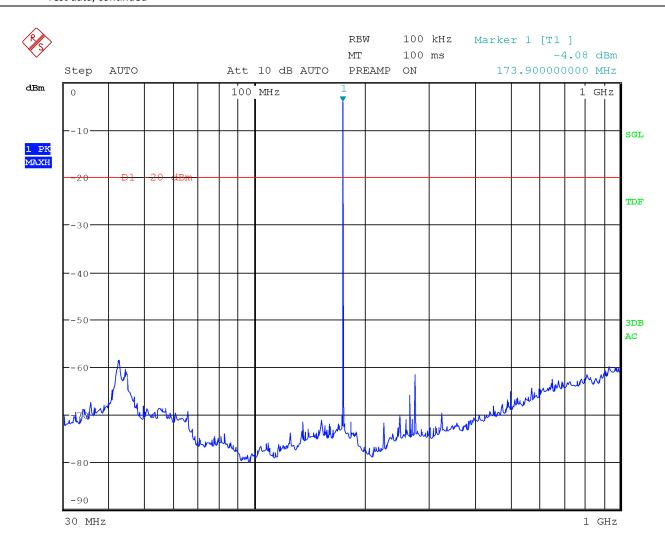




Radiated spurious emissions with modulation FM 25.0 kHz at 173.9 MHz – Antenna in horizontal polarization $Limit\ exceeded\ by\ the\ carrier$

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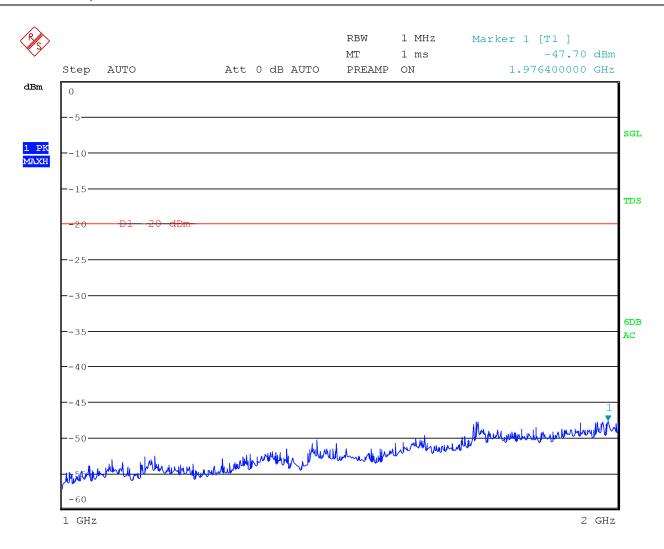




Radiated spurious emissions with modulation FM 25.0 kHz at 173.9 MHz – Antenna in vertical polarization

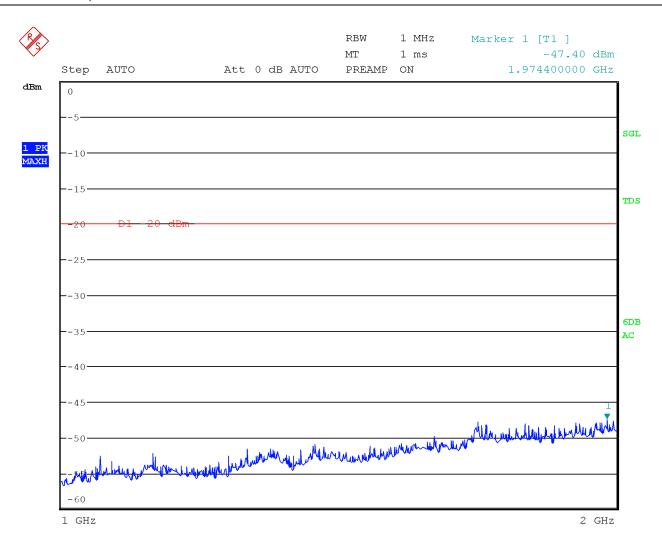
Limit exceeded by the carrier





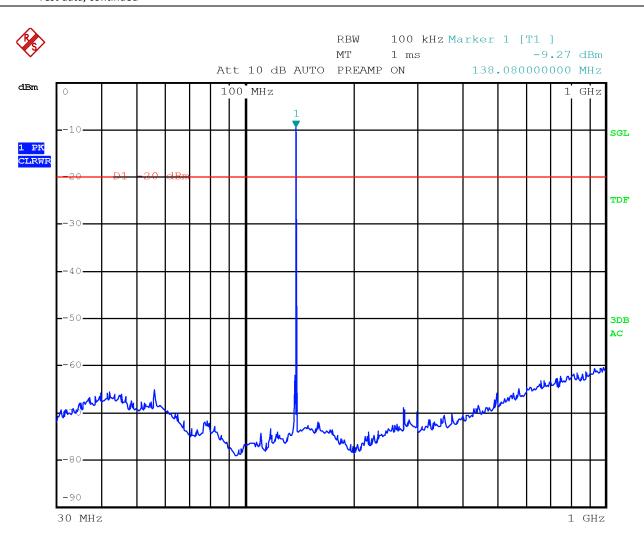
Radiated spurious emissions with modulation FM 25.0 kHz at 173.9 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation FM 25.0 kHz at 173.9 MHz – Antenna in vertical polarization



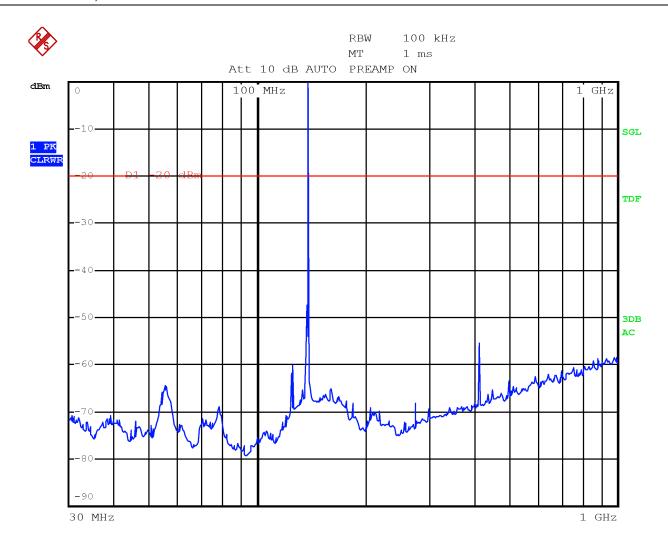


Radiated spurious emissions with modulation CST 4FSK at 138.1 MHz – Antenna in horizontal polarization

Limit exceeded by the carrier

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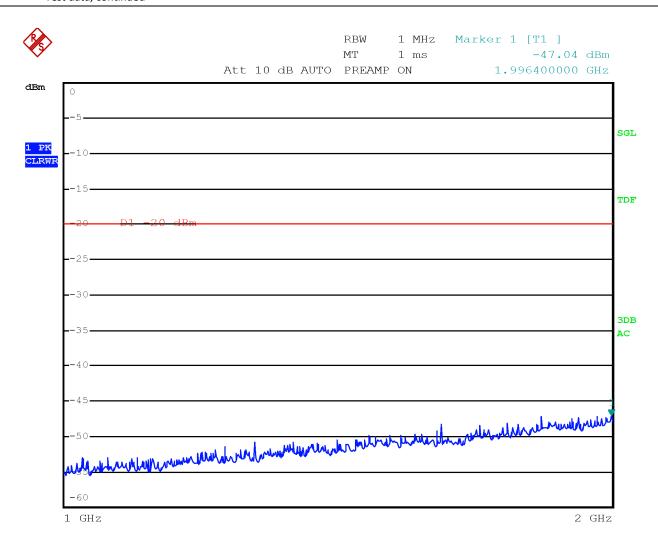


Radiated spurious emissions with modulation CST 4FSK at 138.1 MHz – Antenna in vertical polarization

Limit exceeded by the carrier

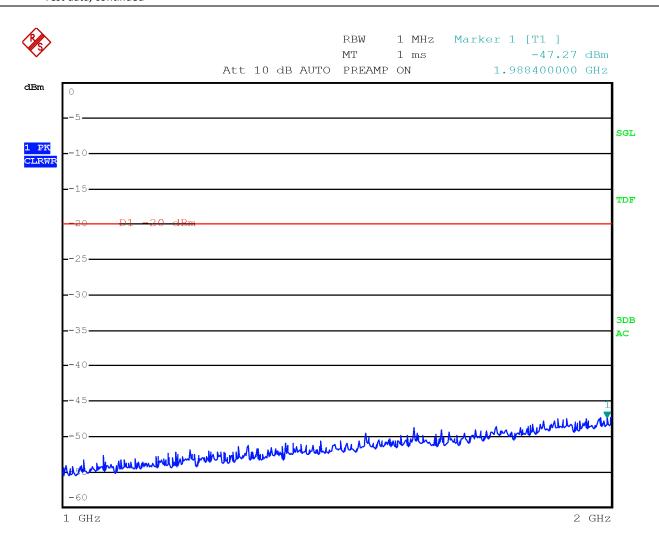
Report reference ID: REP016466 Page 141 of 175





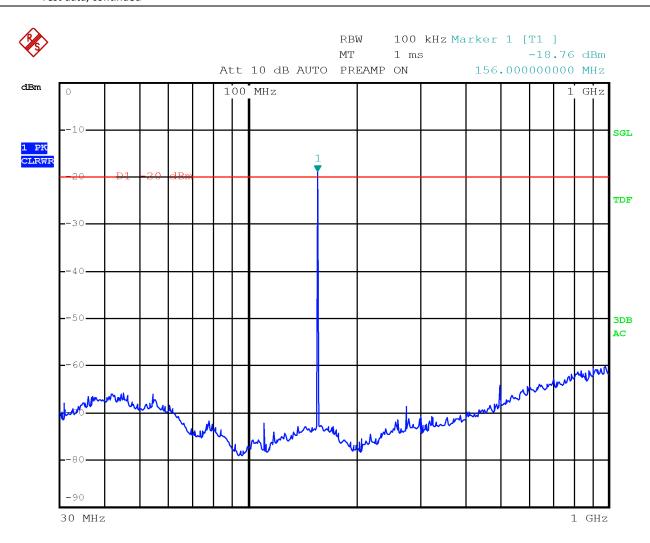
Radiated spurious emissions with modulation CST 4FSK at 138.1 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation CST 4FSK at 138.1 MHz – Antenna in vertical polarization



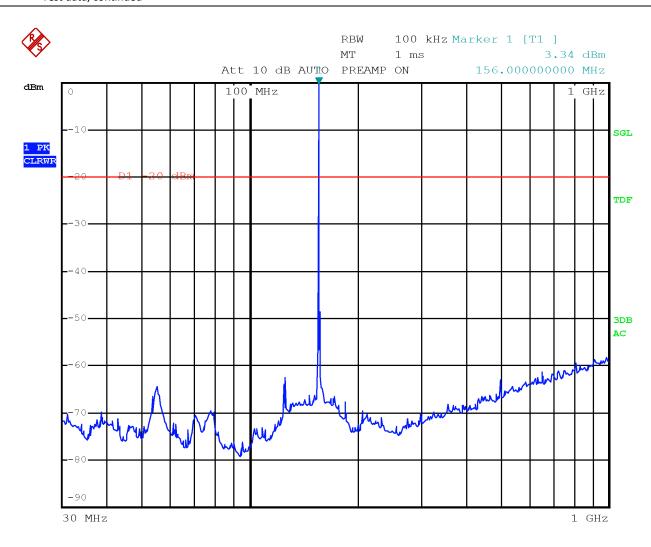


Radiated spurious emissions with modulation CST 4FSK at 156.0 MHz – Antenna in horizontal polarization

Limit exceeded by the carrier

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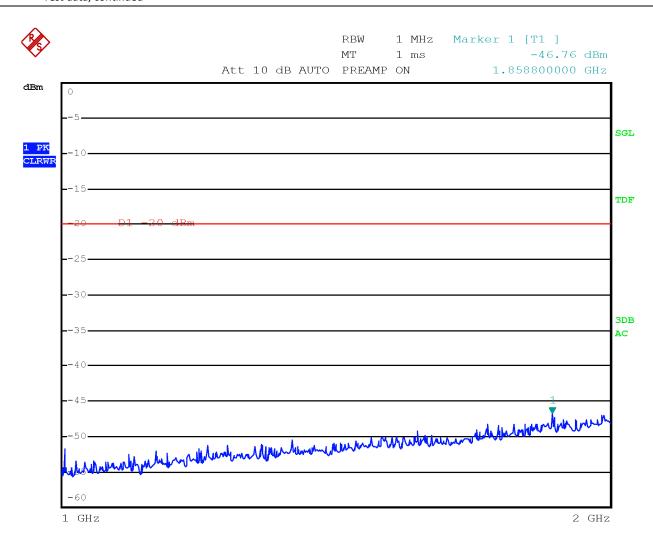


Radiated spurious emissions with modulation CST 4FSK at 156.0 MHz – Antenna in vertical polarization

Limit exceeded by the carrier

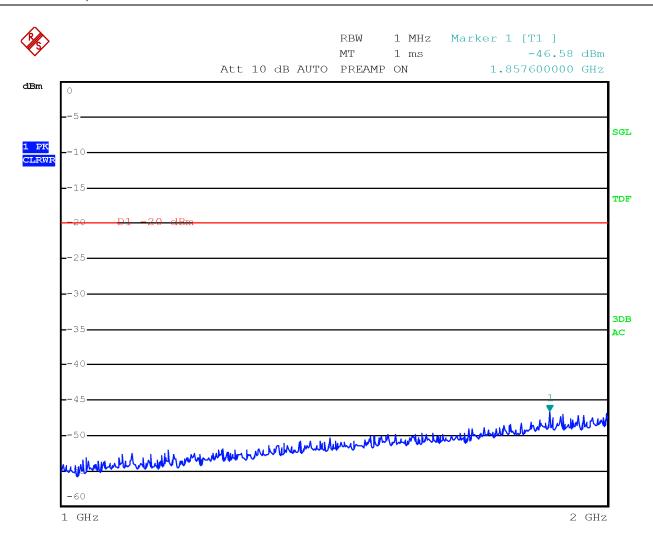
Report reference ID: REP016466 Page 145 of 175





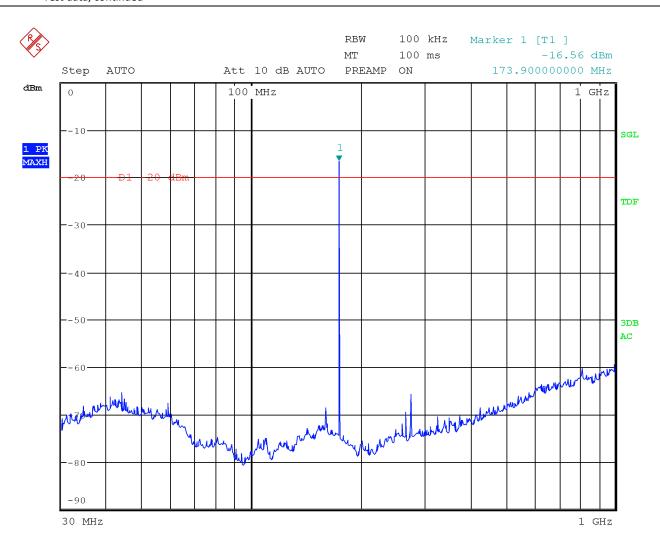
Radiated spurious emissions with modulation CST 4FSK at 156.0 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation CST 4FSK at 156.0 MHz – Antenna in vertical polarization



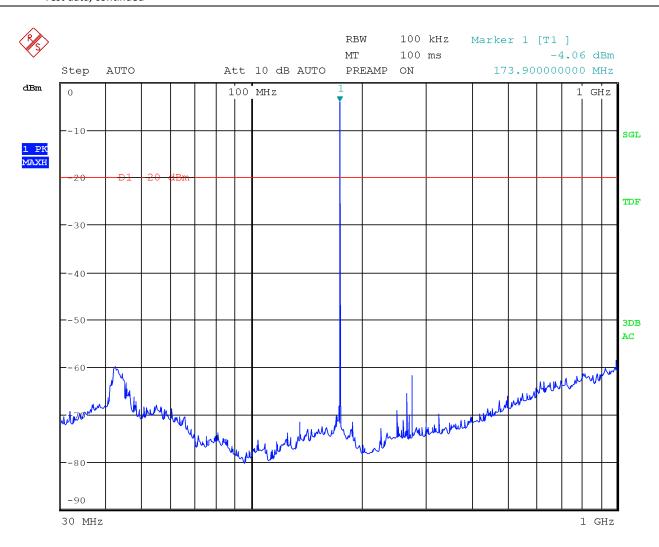


Radiated spurious emissions with modulation CST 4FSK at 173.9 MHz – Antenna in horizontal polarization

Limit exceeded by the carrier

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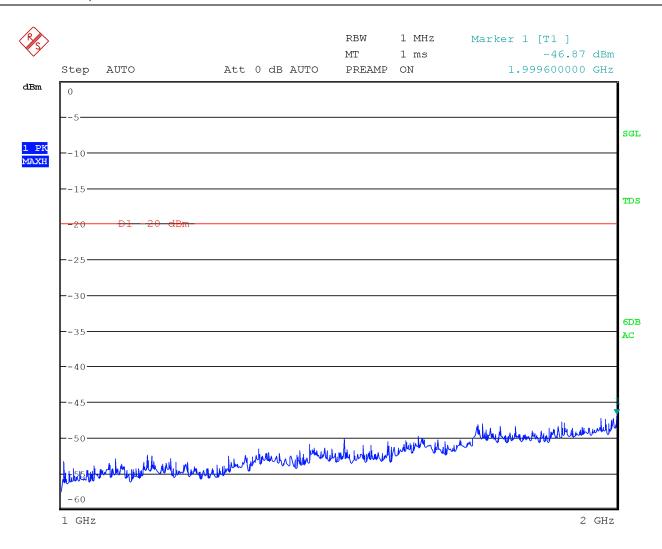


Radiated spurious emissions with modulation CST 4FSK at 173.9 MHz – Antenna in vertical polarization

Limit exceeded by the carrier

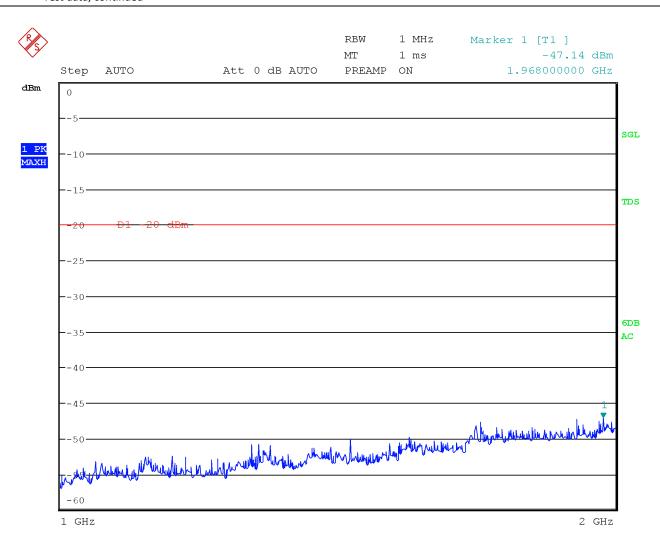
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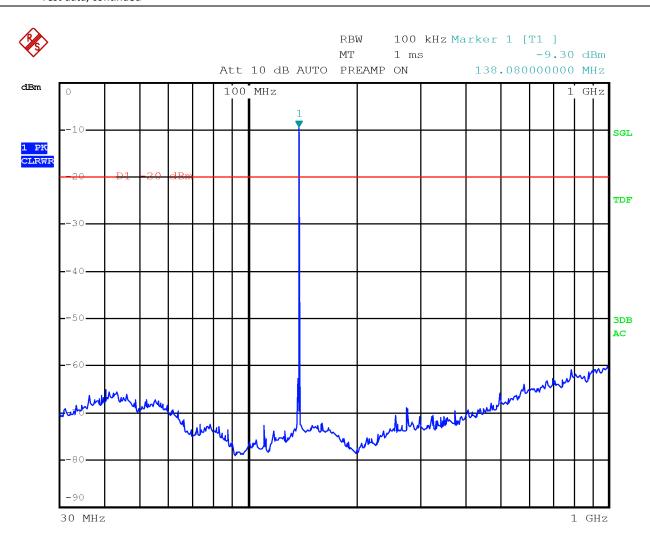
Radiated spurious emissions with modulation CST 4FSK at 173.9 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation CST 4FSK at 173.9 MHz – Antenna in vertical polarization



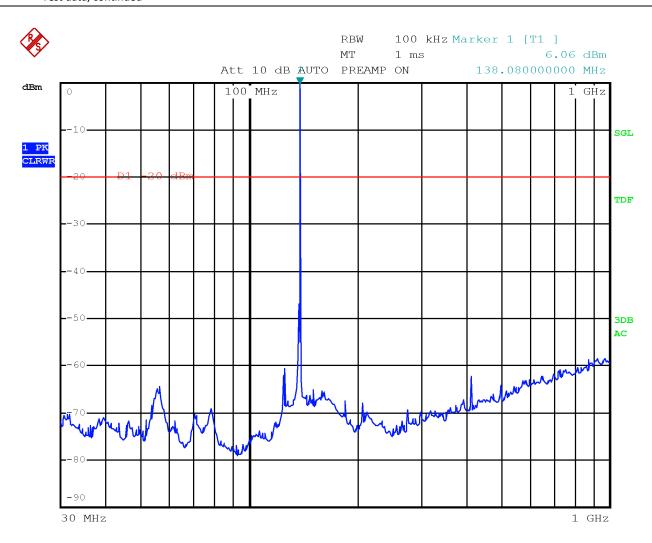


Radiated spurious emissions with modulation P25 C4FM at 138.1 MHz – Antenna in horizontal polarization

Limit exceeded by the carrier

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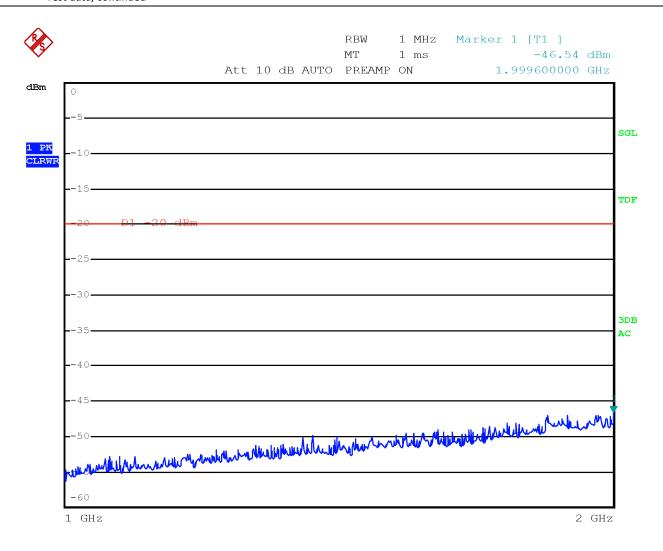


Radiated spurious emissions with modulation P25 C4FM at 138.1 MHz – Antenna in vertical polarization

Limit exceeded by the carrier

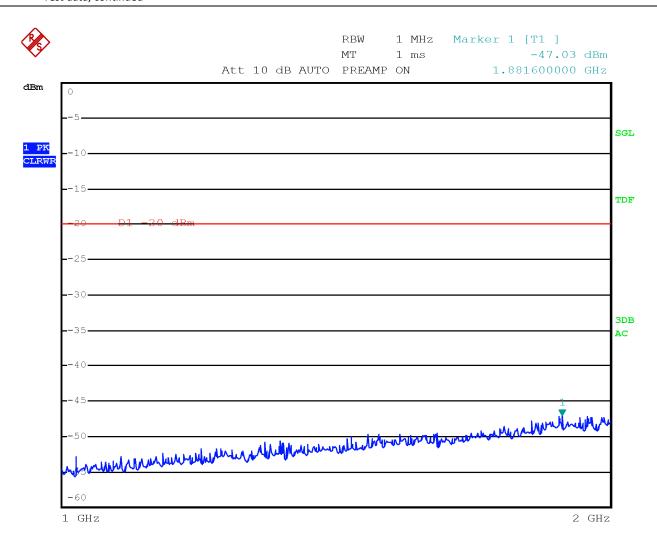
Report reference ID: REP016466 Page 153 of 175





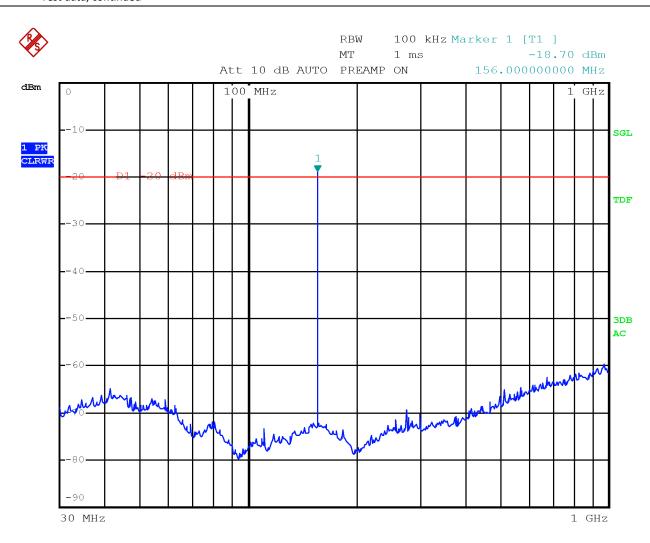
Radiated spurious emissions with modulation P25 C4FM at 138.1 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation P25 C4FM at 138.1 MHz – Antenna in vertical polarization



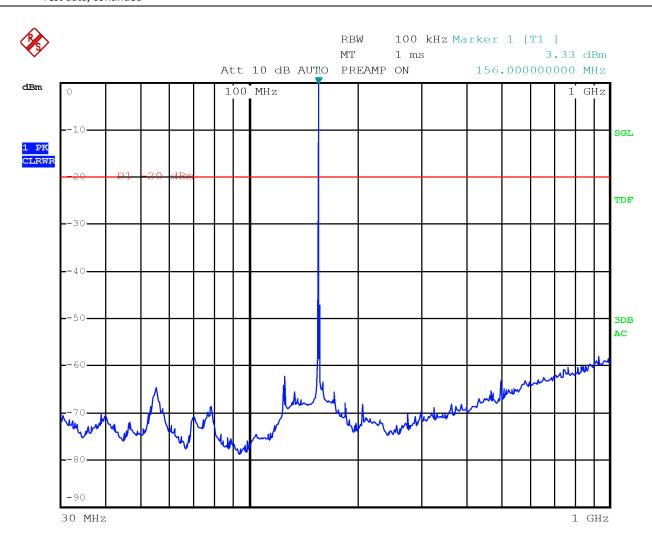


Radiated spurious emissions with modulation P25 C4FM at 156.0 MHz – Antenna in horizontal polarization

Limit exceeded by the carrier

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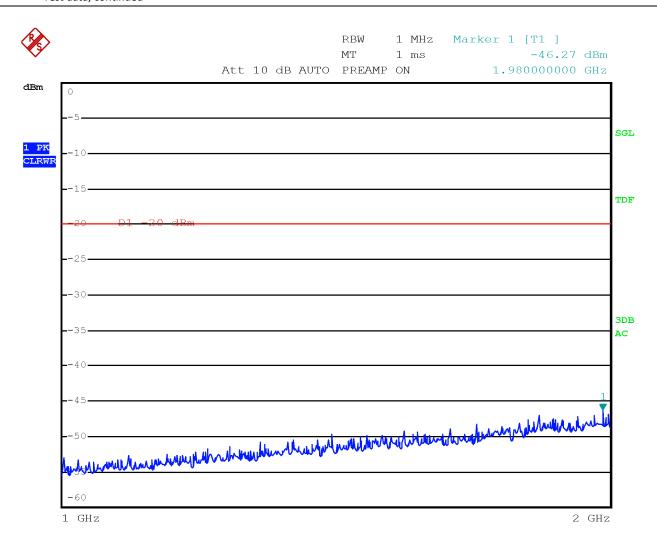


Radiated spurious emissions with modulation P25 C4FM at 156.0 MHz – Antenna in vertical polarization

Limit exceeded by the carrier

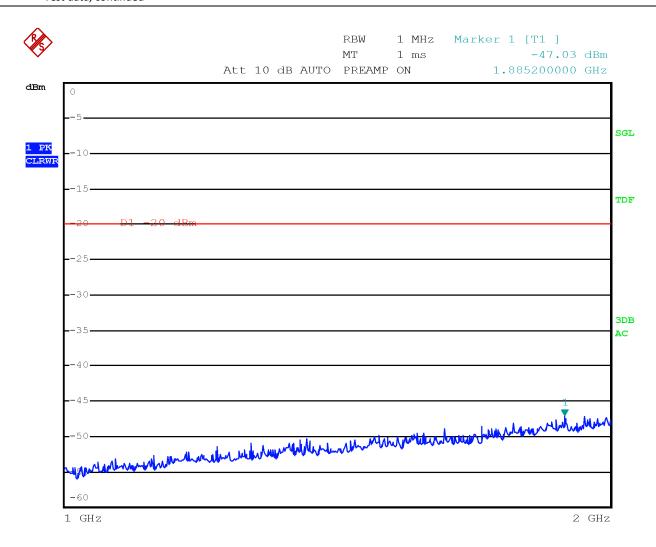
Report reference ID: REP016466 Page 157 of 175





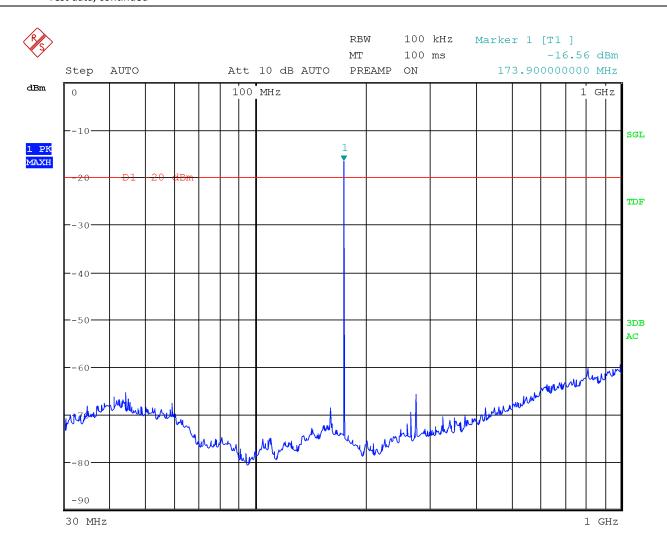
Radiated spurious emissions with modulation P25 C4FM at 156.0 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation P25 C4FM at 156.0 MHz – Antenna in vertical polarization



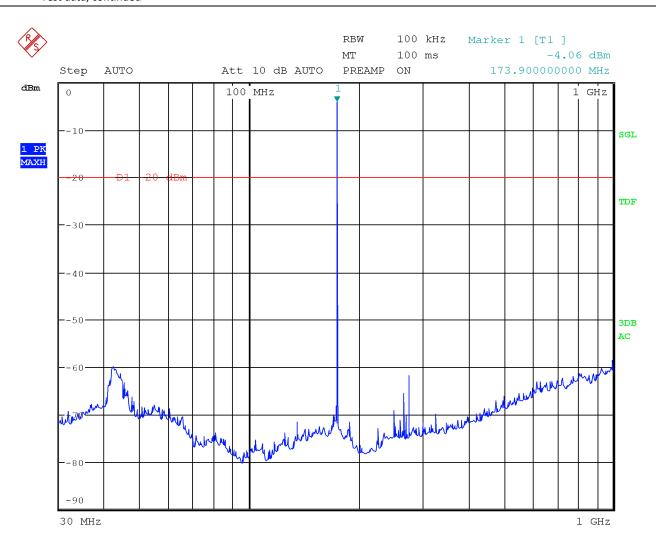


Radiated spurious emissions with modulation P25 C4FM at 173.9 MHz – Antenna in horizontal polarization

Limit exceeded by the carrier

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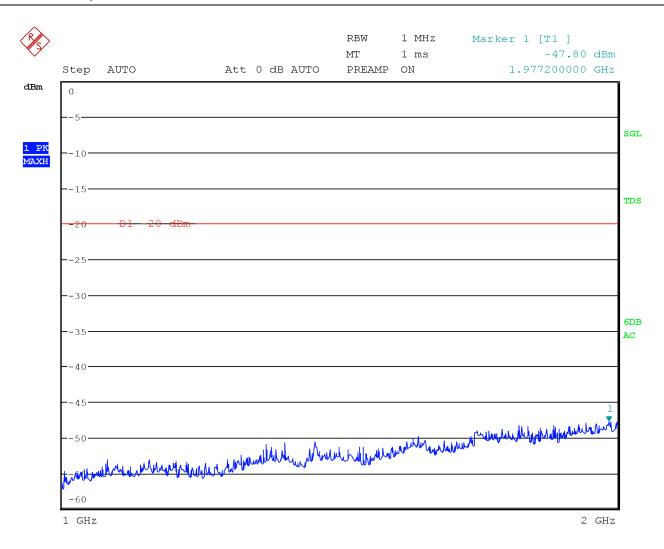


Radiated spurious emissions with modulation P25 C4FM at 173.9 MHz – Antenna in vertical polarization

Limit exceeded by the carrier

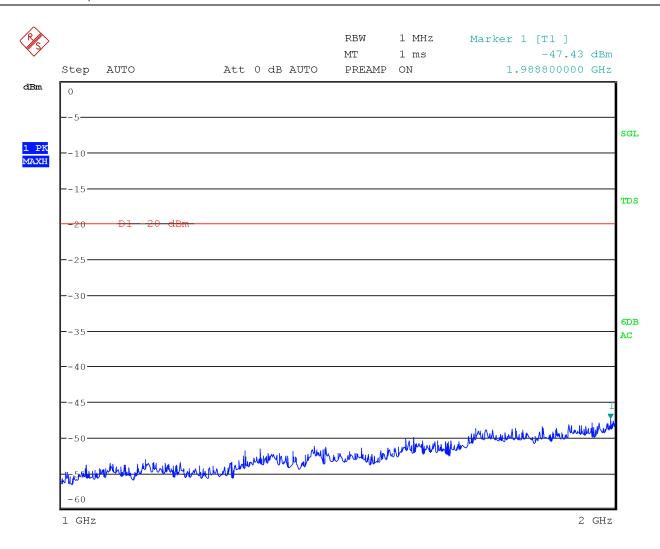
Report reference ID: REP016466 Page 161 of 175





Radiated spurious emissions with modulation P25 C4FM at 173.9 MHz – Antenna in horizontal polarization





Radiated spurious emissions with modulation P25 C4FM at 173.9 MHz – Antenna in vertical polarization



7.6 Transient frequency behavior

7.6.1 References, definitions and limits

FCC §90.214:

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

Table 7.6-1: Transient frequency behavior

Time intervals ^{1,2}	Maximum frequency difference ³	Transient duration limit				
Transient Frequ	Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels					
t ₁ ⁴	±25.0 kHz	10.0 ms				
t_2	±12.5 kHz	25.0 ms				
t ₃ ⁴	±25.0 kHz	10.0 ms				
Transient Freque	ency Behavior for Equipment Designed to Operate on 13	2.5 kHz Channels				
t ₁ ⁴	±12.5 kHz	10.0 ms				
t ₂	±6.25 kHz	25.0 ms				
t ₃ ⁴	±12.5 kHz	10.0 ms				
Transient Freque	Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels					
t ₁ ⁴	±6.25 kHz	10.0 ms				
t ₂	±3.125 kHz	25.0 ms				
t ₃ ⁴	±6.25 kHz	10.0 ms				

Notes: 1ton is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

7.6.2 Test summary

Verdict	Pass		
Tested by	P. Barbieri	Test date	September 14, 2023

7.6.3 Observations, settings and special notes

None

7.6.4 Test equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2023-01	2024-01
Shielded room	Siemens	10m control room	1947	NCR	NCR
Radio communication tester	Rohde & Schwarz	CMT	883 152/001	2021-01	2024-01
Oscilloscope	Rohde & Schwarz	RTH1002	103815	2021-09	2024-09

Note: NCR - no calibration required, VOU - verify on use

 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.

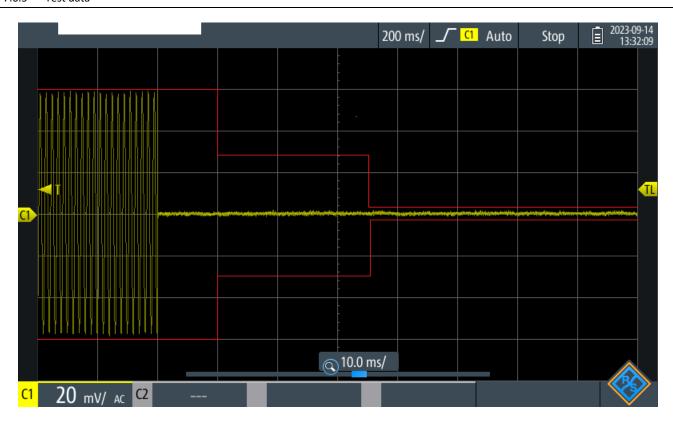
 $^{^2}$ During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

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

⁴If 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.

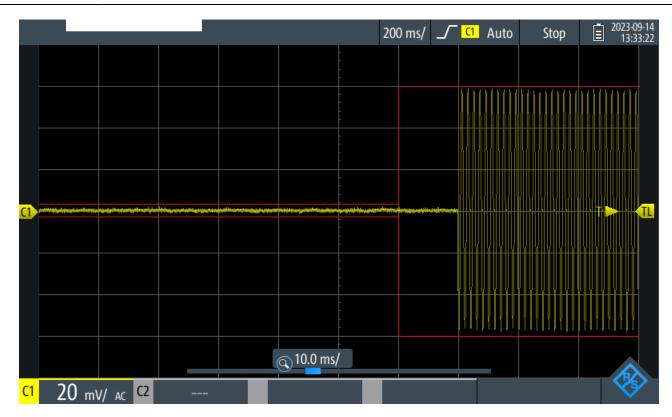


7.6.5 Test data



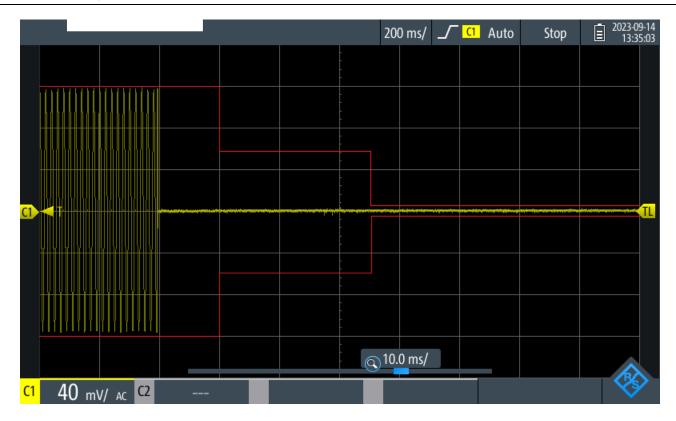
Transient Frequency behavior with modulation FM 12.5 kHz, switch ON





Transient Frequency behavior with modulation FM 12.5 kHz, switch OFF





Transient Frequency behavior with modulation FM 25.0 kHz, switch ON





Transient Frequency behavior with modulation FM 25.0 kHz, switch OFF



7.7 Transmitter frequency stability

7.7.1 References, definitions and limits

FCC §90.213:

(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

Table 7.7-1: Minimum frequency stability

Frequency range (MHz)	Fixed and base stations	Mobile stations over 2 watts output power	Mobile stations 2 watts or less output power
138-174	±5 ppm ^{5, 11}	±5 ppm ⁶	±50 ppm ^{4, 6}

Notes:

FCC §22.355:

(a) Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C–1 of this section.

Table 7.7-2: Minimum frequency stability

Frequency range (MHz) Base, fixed N		Mobile >3 watts	Mobile ≤3 watts
	(ppm)	(ppm)	(ppm)
50 to 450	±5 ppm	±5 ppm	±50 ppm

7.7.2 Test summary

Verdict	Pass		
Tested by	P. Barbieri	Test date	September 15, 2023

7.7.3 Observations, settings and special notes

Test was performed on supply voltage variations as per client rated, no frequency deviation was observed.

7.7.4 Test equipment list

Equipment	Manufacturer	Model no.	Asset no.	Cal cycle	Next cal.
Spectrum Analyzer	Rohde & Schwarz	FSW43	101767	2023-01	2024-01
Climatic Chamber	MSL	EC500DA	15022	2022-02	2024-02

Note: NCR - no calibration required, VOU - verify on use

⁴ Stations operating in the 154.45 to 154.49 MHz or the 173.2 to 173.4 MHz bands must have a frequency stability of 5 ppm.

⁵ In the 150-174 MHz band, fixed and base stations with a 25 kHz channel bandwidth must have a frequency stability of 2.5 ppm. Fixed and base stations with a 6.25 kHz channel bandwidth must have a frequency stability of 1.0 ppm.

⁶ In the 150-174 MHz band, mobile stations designed to operate with a 25 kHz channel bandwidth or designed to operate on a frequency specifically designated for itinerant use or designed for low-power operation of two watts or less, must have a frequency stability of 5.0 ppm. Mobile stations designed to operate with a 6.25 kHz channel bandwidth must have a frequency stability of 2.0 ppm.

¹¹ Paging transmitters operating on paging-only frequencies must operate with frequency stability of 5 ppm in the 150-174 MHz band and 2.5 ppm in the 421-512 MHz band.



7.7.5 Test data

Table 7.7-3: Transmitter frequency stability results

Test conditions	Frequency, Hz	Drift, Hz	Drift, ppm	Limit ±ppm	Margin, ±ppm
+50 °C, Nominal	155999985.0	-10.3	-0.066	2.5	-2.434
+40 °C, Nominal	155999987.8	-7.5	-0.048	2.5	-2.452
+30 °C, Nominal	155999992.2	-3.1	-0.020	2.5	-2.480
+20 °C, +15 %	155999995.3	0	0.000	2.5	-2.500
+20 °C, Nominal	155999995.3	Reference	Reference	Reference	Reference
+20 °C, -15 %	155999995.3	0	0.000	2.5	-2.500
+10 °C, Nominal	155999996.2	0.9	0.006	2.5	-2.494
0 °C, Nominal	155999994.8	-0.5	-0.003	2.5	-2.497
−10 °C, Nominal	155999992.7	-2.6	-0.017	2.5	-2.483
−20 °C, Nominal	155999990.0	-5.3	-0.034	2.5	-2.466
−30 °C, Nominal	155999984.4	-10.9	-0.070	2.5	-2.430



Section 8 Photos

8.1 Photos of the test set-up

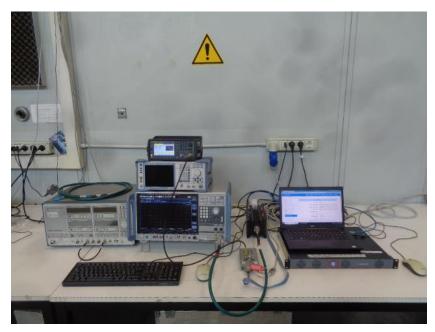


Set-up photo for radiated tests below 1 GHz photo



Set-up photo for radiated tests above 1 GHz photo





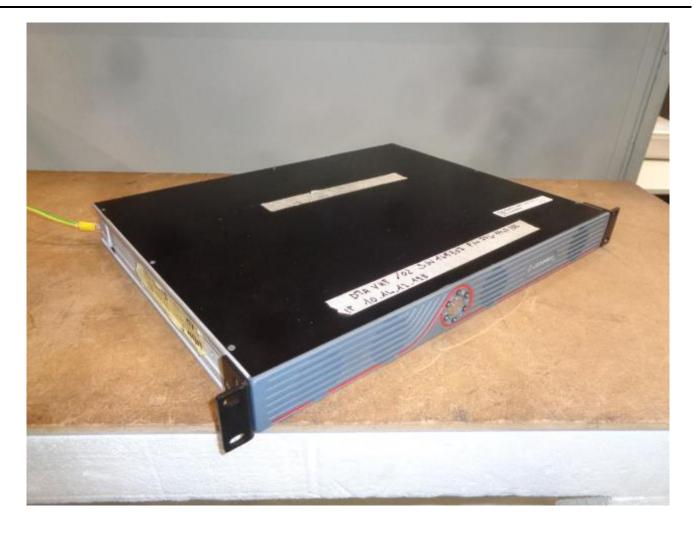
Set-up photo for antenna port tests



Set-up photo for frequency error tests



8.2 Photos of the EUT



Front, left and top side photo





Rear, right and bottom side photo





Copy of marking plate

End of the test report