

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
 Data File : VF061508.D
 Acq On : 24 Jan 2019 19:02
 Operator : VA/AP
 Sample : K1223-05RE
 Misc : 4.98g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-QRE

Quant Time: Jan 25 04:10:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	150709	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.62	114	268421	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.80	117	154520	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.57	152	36006	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	94994	51.05	ug/l	0.04
Spiked Amount			Recovery	=	102.10%	
35) Dibromofluoromethane	4.14	113	103387	48.81	ug/l	0.04
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	7.58	98	200517	34.55	ug/l	0.03
Spiked Amount			Recovery	=	69.10%	
62) 4-Bromofluorobenzene	11.42	95	50930	18.78	ug/l	0.02
Spiked Amount			Recovery	=	37.56%	

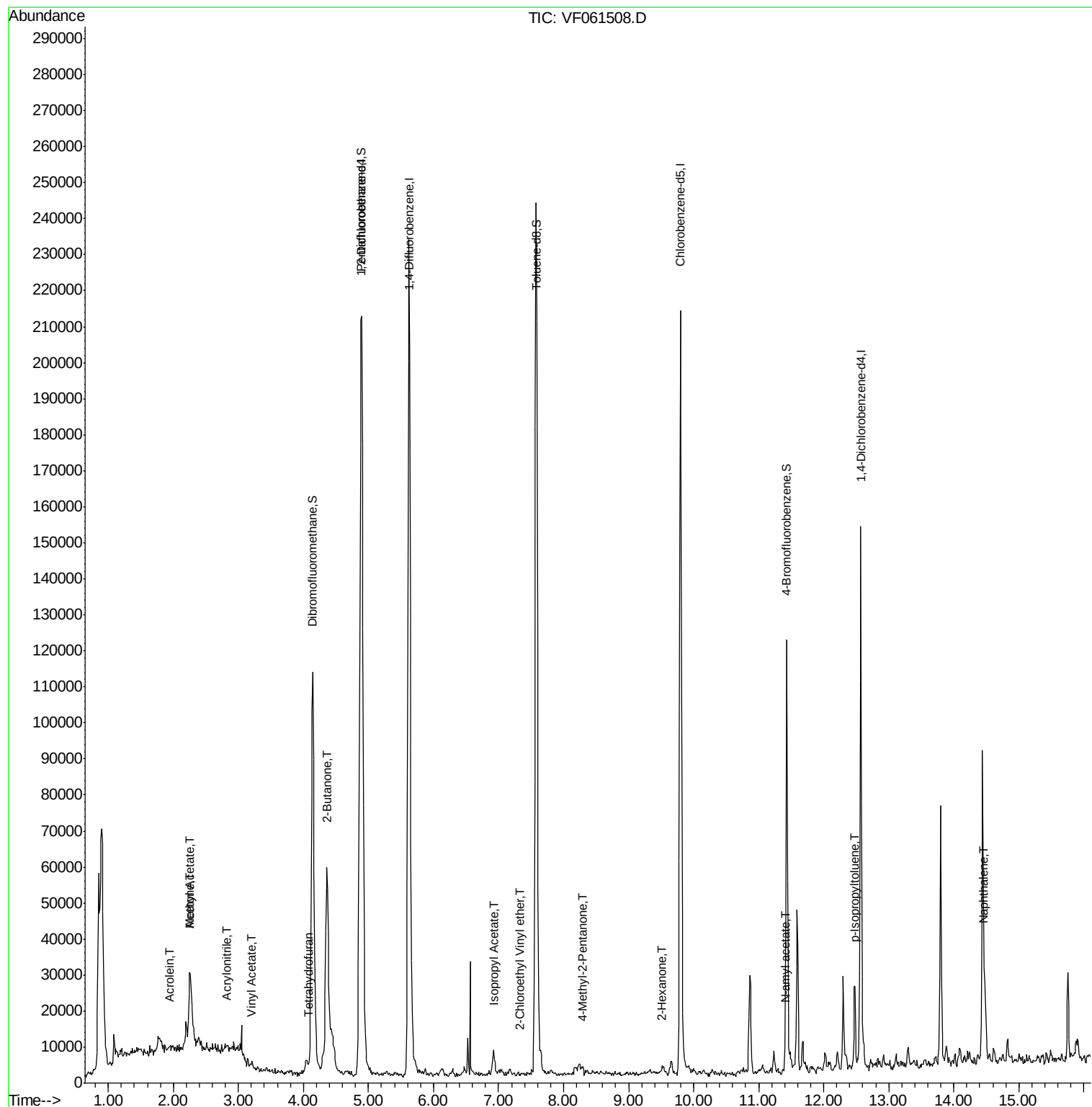
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.94	56	434	16.470	ug/l	89
14) Allyl chloride	2.10	41	481	Below Cal	#	50
15) Acrylonitrile	2.83	53	431	2.136	ug/l	93
16) Acetone	2.26	43	38652	103.548	ug/l	96
18) Methyl Acetate	2.26	43	35145	47.476	ug/l #	61
23) Vinyl Acetate	3.22	43	411	3.387	ug/l #	78
25) 2-Butanone	4.36	43	133877	215.672	ug/l	98
29) Tetrahydrofuran	4.08	42	744	2.784	ug/l #	45
43) Isopropyl Acetate	6.92	43	10288	6.589	ug/l #	51
49) 1,4-Dioxane	6.28	88	64	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.29	43	2792	2.432	ug/l	88
58) 2-Chloroethyl Vinyl ether	7.33	63	60	27.856	ug/l #	47
59) 2-Hexanone	9.52	43	2665	3.329	ug/l #	57
74) N-amyl acetate	11.40	43	701	1.012	ug/l #	36
86) p-Isopropyltoluene	12.48	119	12481	4.577	ug/l	96
95) Naphthalene	14.47	128	3661	2.378	ug/l #	92

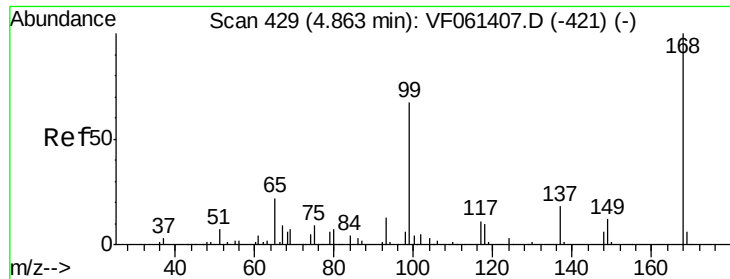
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.03 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

Instrument :

MSVOA_F

ClientSampleId :

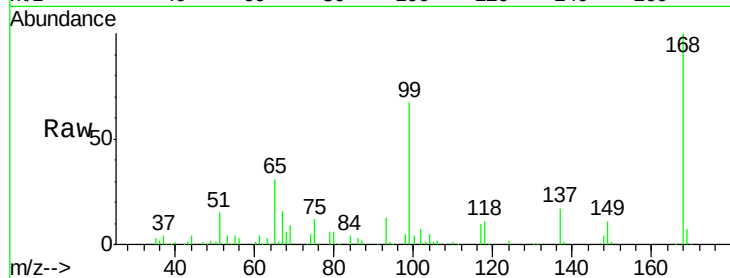
TS-QRE

Tot Ion:168 Resp: 150709

Ion Ratio Lower Upper

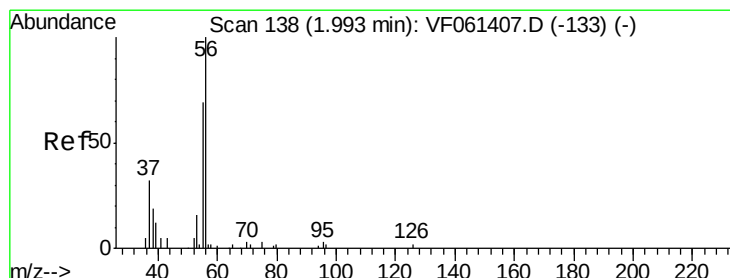
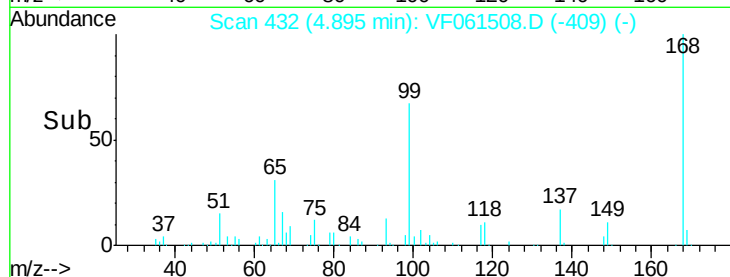
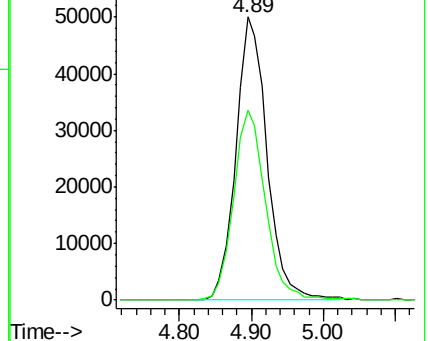
168 100

99 67.2 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: 16.470 ug/l

RT: 1.94 min Scan# 132

Delta R.T. -0.06 min

Lab File: VF061508.D

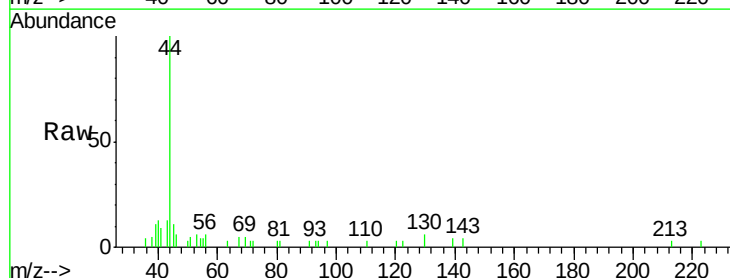
Acq: 24 Jan 2019 19:02

Tgt Ion: 56 Resp: 434

Ion Ratio Lower Upper

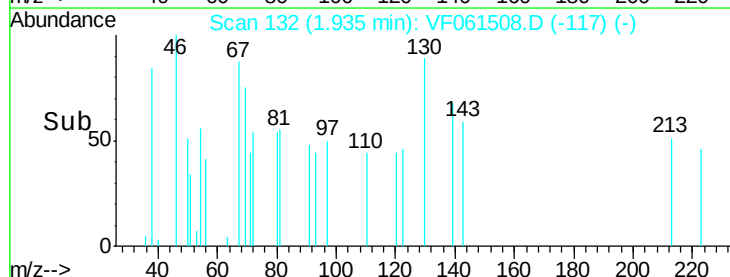
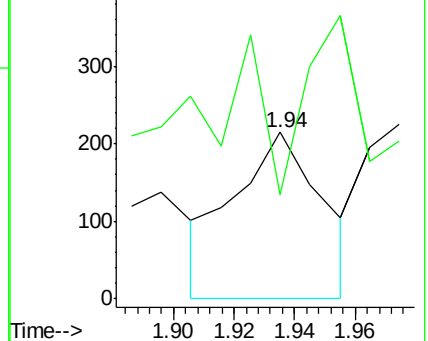
56 100

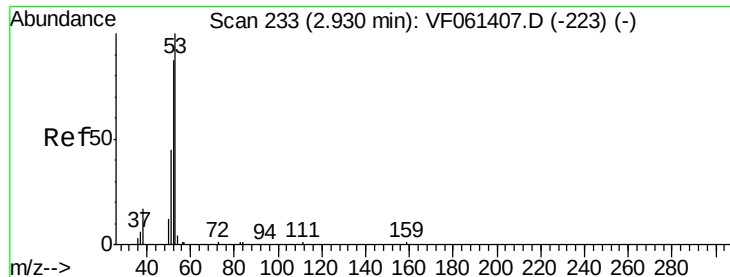
55 62.8 57.5 86.3



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 2.136 ug/l

RT: 2.83 min Scan# 223

Delta R.T. -0.10 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

Instrument :

MSVOA_F

ClientSampleId :

TS-QRE

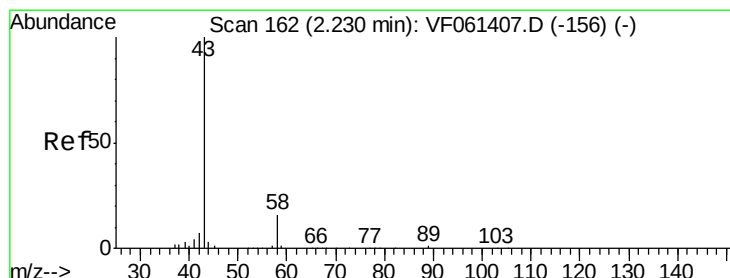
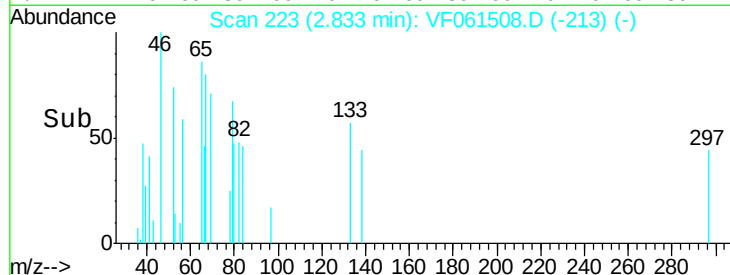
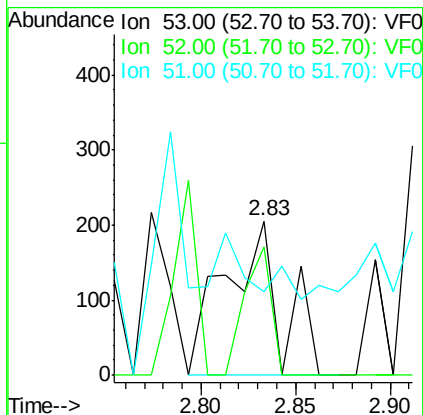
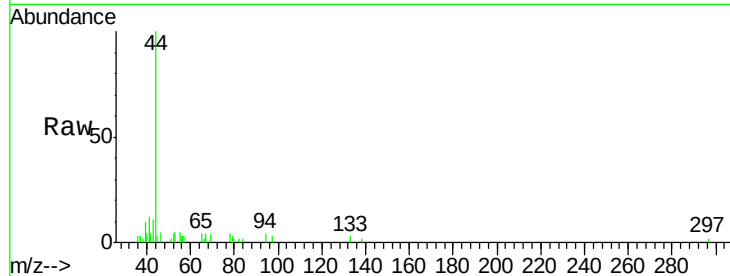
Tot Ion: 53 Resp: 431

Ion Ratio Lower Upper

53 100

52 83.4 69.6 104.4

51 54.1 36.8 55.2



#16

Acetone

Concen: 103.548 ug/l

RT: 2.26 min Scan# 165

Delta R.T. 0.03 min

Lab File: VF061508.D

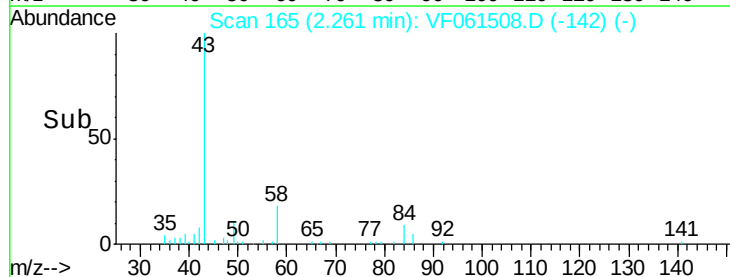
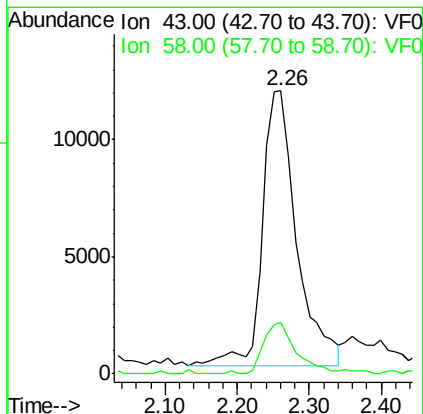
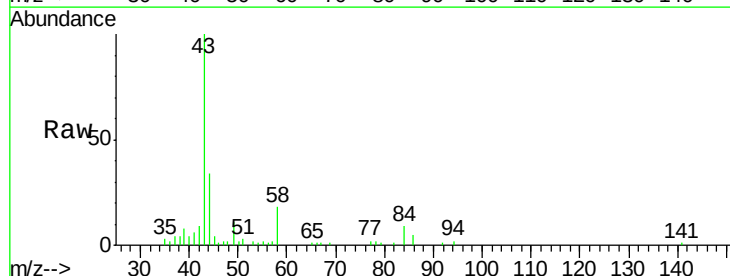
Acq: 24 Jan 2019 19:02

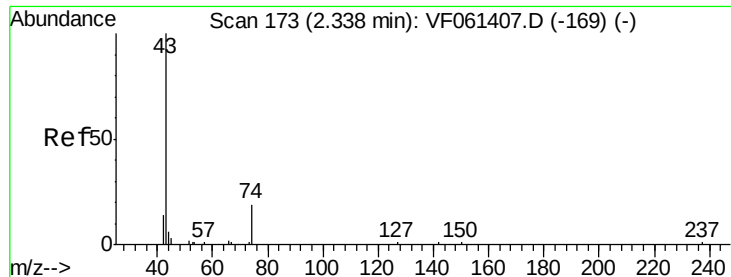
Tgt Ion: 43 Resp: 38652

Ion Ratio Lower Upper

43 100

58 18.1 13.3 19.9

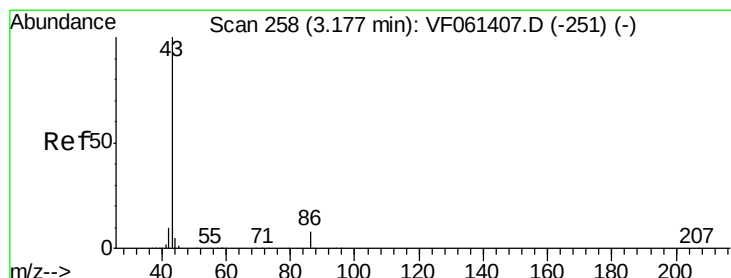
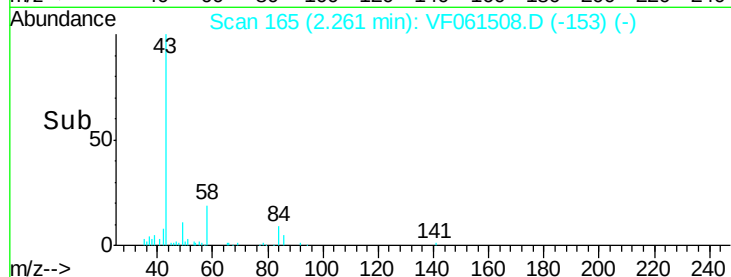
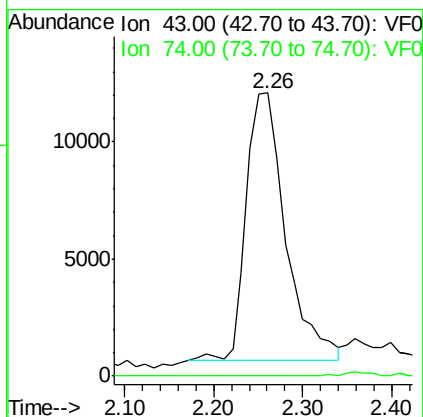
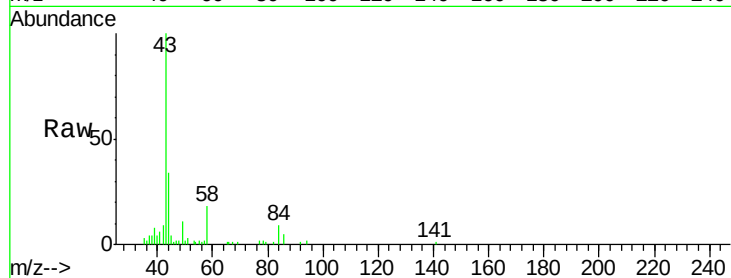




#18
Methvl Acetate
Concen: 47.476 ug/l
RT: 2.26 min Scan# 165
Delta R.T. -0.08 min
Lab File: VF061508.D
Acq: 24 Jan 2019 19:02

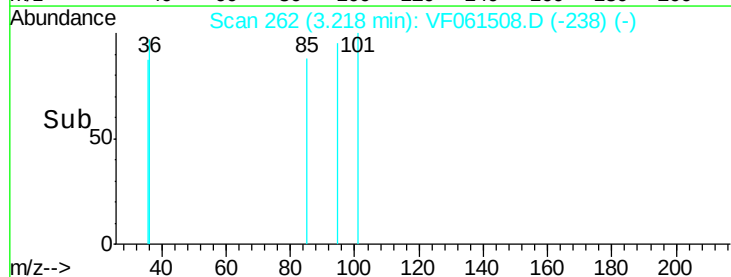
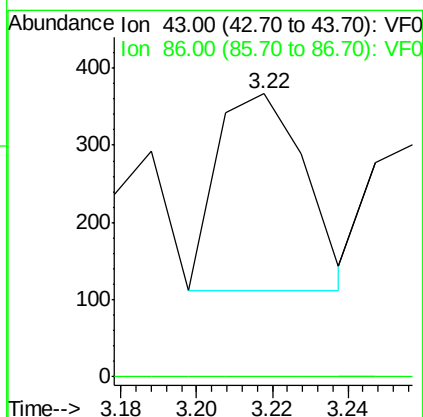
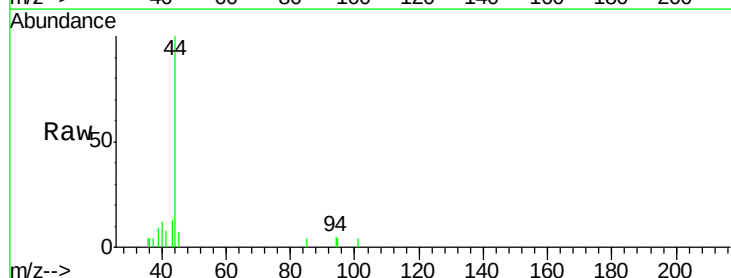
Instrument :
MSVOA_F
ClientSampleId :
TS-QRE

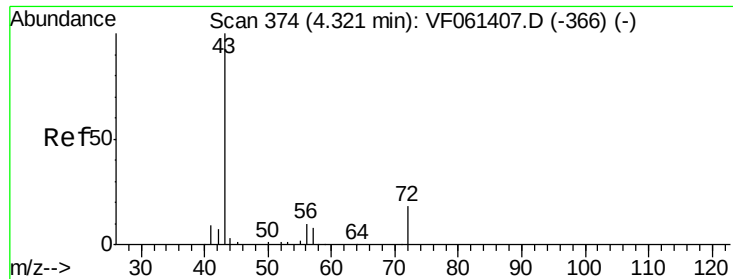
Tot Ion: 43 Resp: 35145
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



#23
Vinyl Acetate
Concen: 3.387 ug/l
RT: 3.22 min Scan# 262
Delta R.T. 0.04 min
Lab File: VF061508.D
Acq: 24 Jan 2019 19:02

Tgt Ion: 43 Resp: 411
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 215.672 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.04 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

Instrument :

MSVOA_F

ClientSampleId :

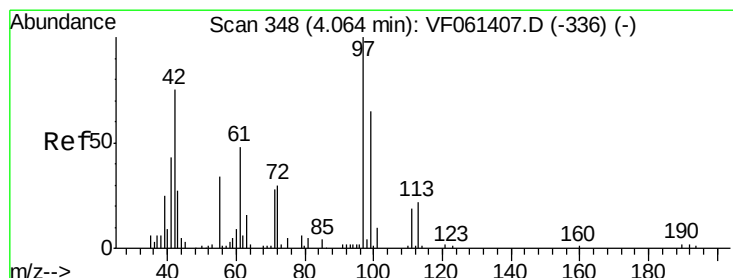
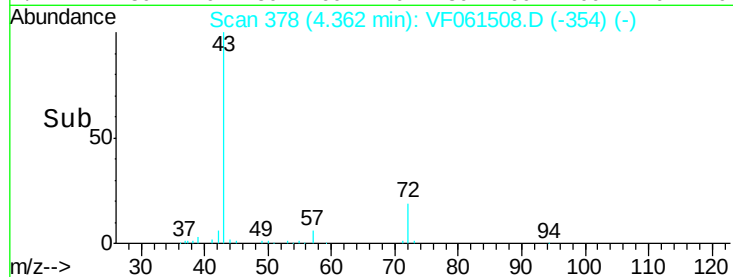
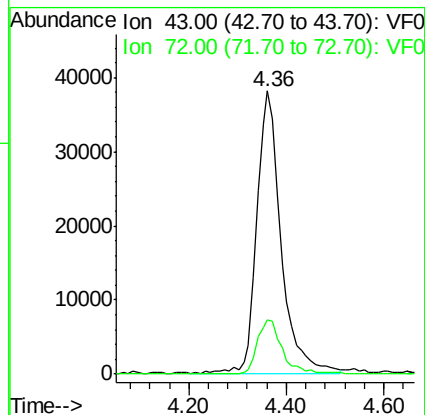
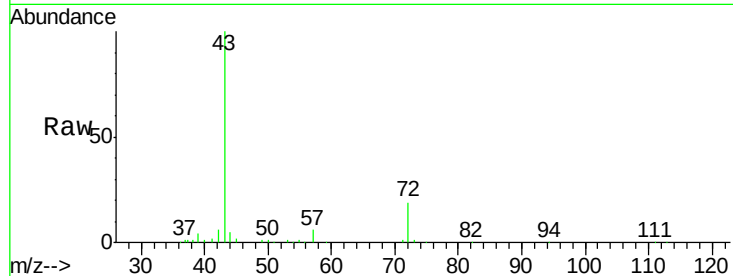
TS-QRE

Tot Ion: 43 Resp: 133877

Ion Ratio Lower Upper

43 100

72 19.0 15.8 23.6



#29

Tetrahydrofuran

Concen: 2.784 ug/l

RT: 4.08 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

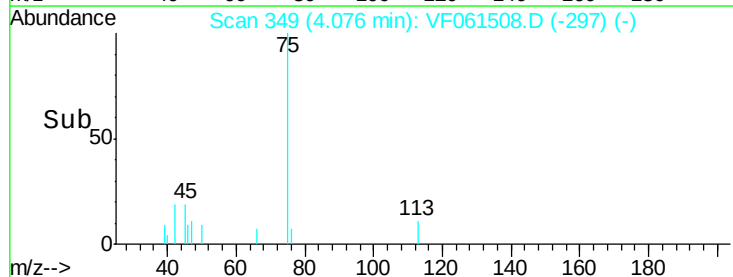
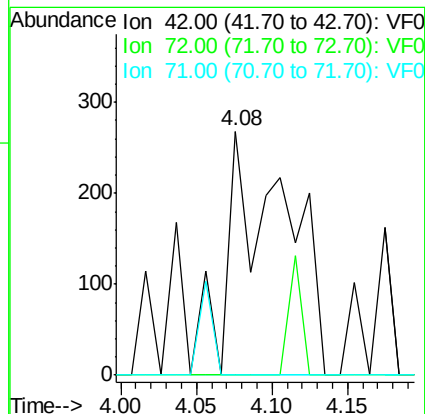
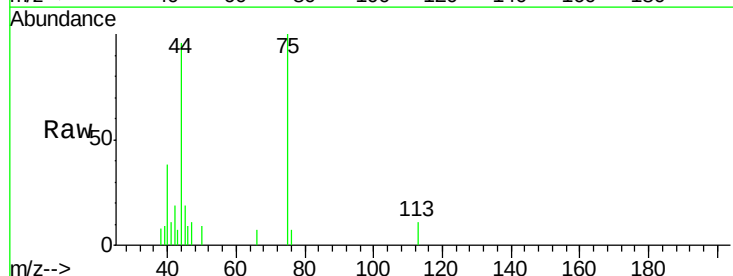
Tgt Ion: 42 Resp: 744

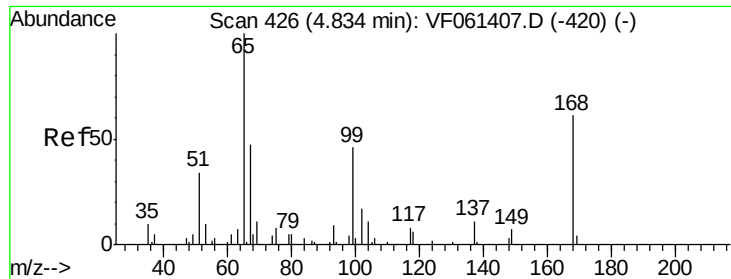
Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

71 8.2 29.6 44.4#

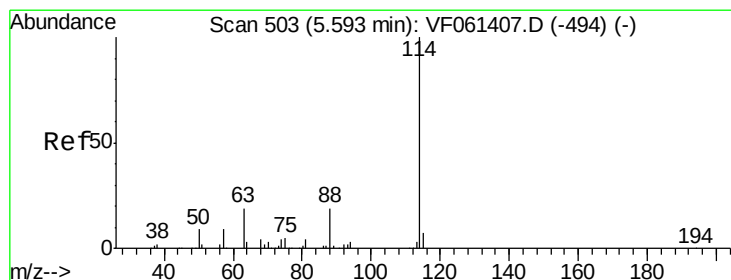
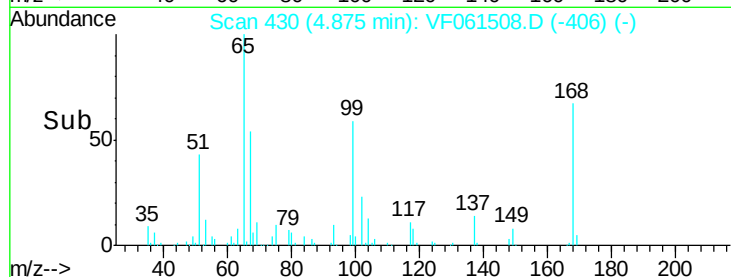
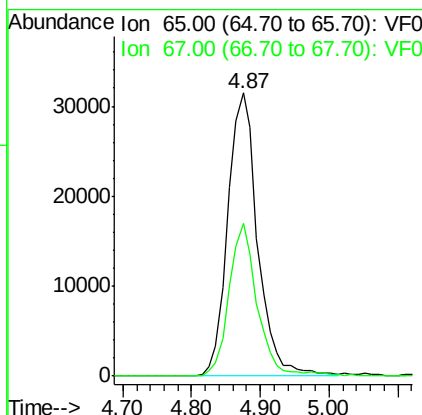
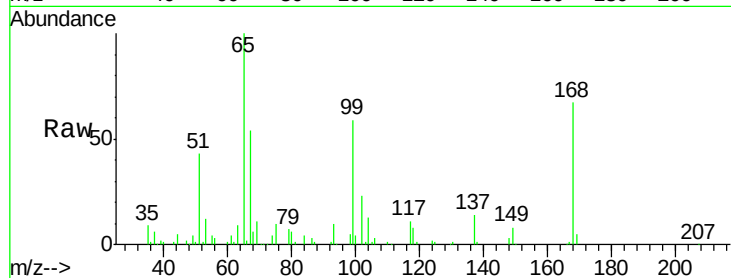




#33
 1,2-Dichloroethane-d4
 Concen: 51.053 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. 0.04 min
 Lab File: VF061508.D
 Acq: 24 Jan 2019 19:02

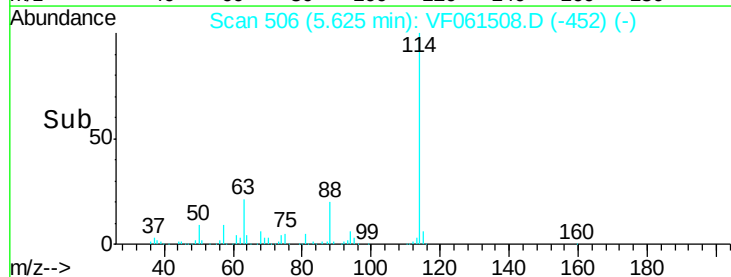
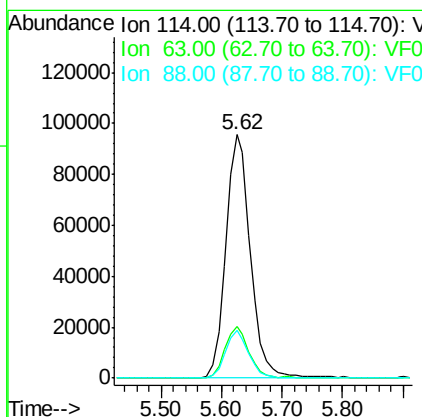
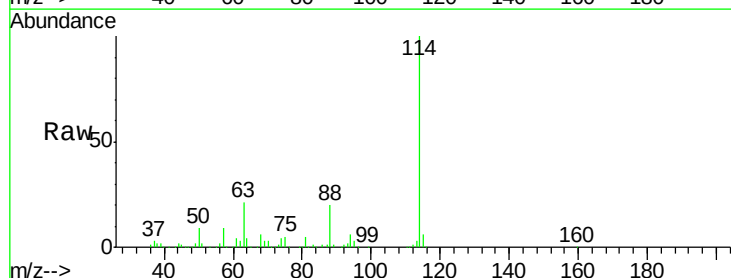
Instrument :
 MSVOA_F
 ClientSampleId :
 TS-QRE

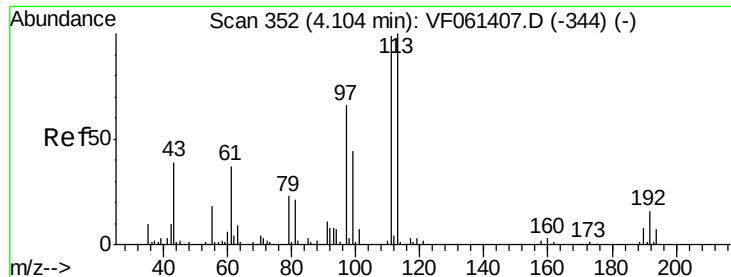
Tot Ion: 65 Resp: 94994
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. 0.03 min
 Lab File: VF061508.D
 Acq: 24 Jan 2019 19:02

Tgt Ion: 114 Resp: 268421
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 39.0
 88 19.7 0.0 37.4





#35

Dibromofluoromethane

Concen: 48.812 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.04 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

Instrument :
MSVOA_F
ClientSampleId :
TS-QRE

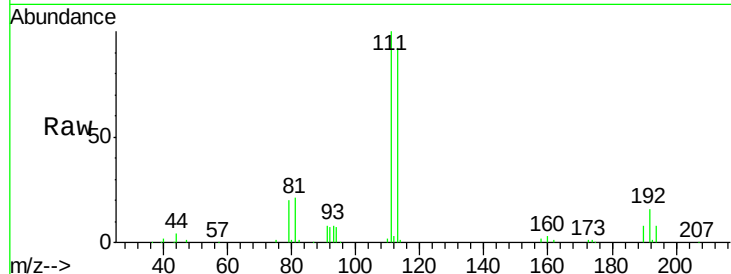
Tot Ion:113 Resp: 103387

Ion Ratio Lower Upper

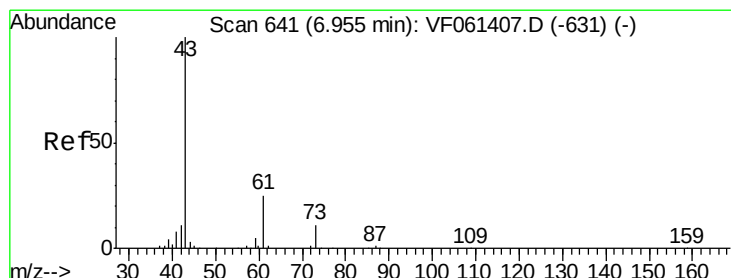
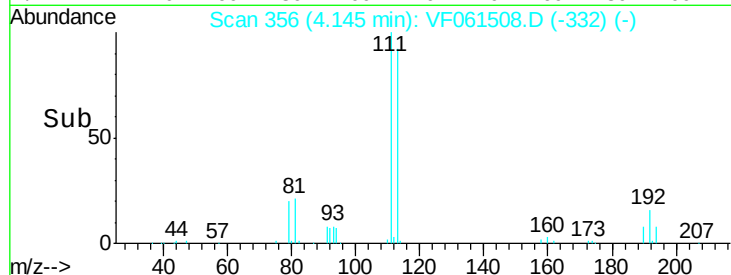
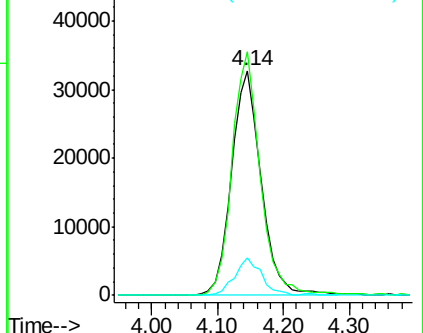
113 100

111 108.5 79.4 119.0

192 17.6 12.4 18.6



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#43

Isopropyl Acetate

Concen: 6.589 ug/l

RT: 6.92 min Scan# 637

Delta R.T. -0.04 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

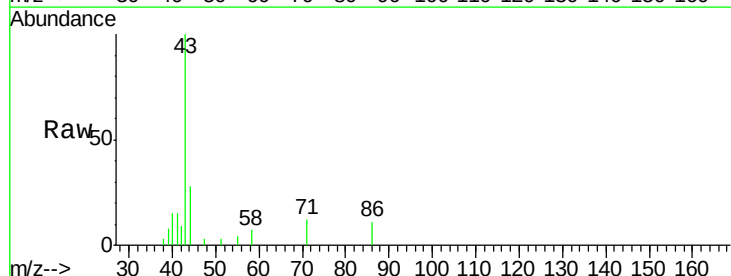
Tgt Ion: 43 Resp: 10288

Ion Ratio Lower Upper

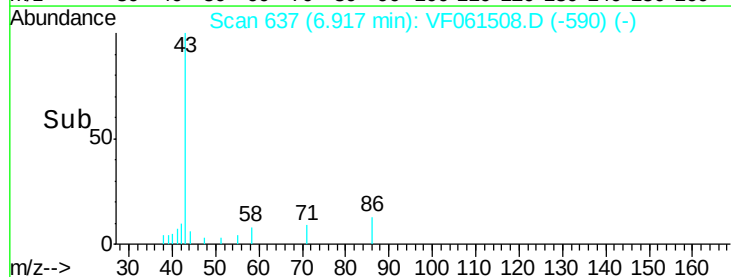
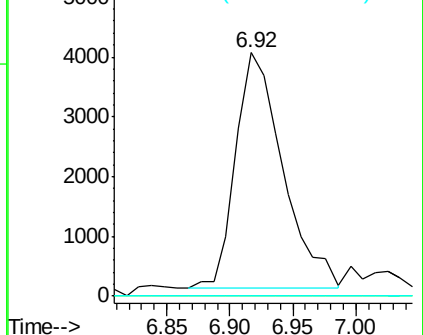
43 100

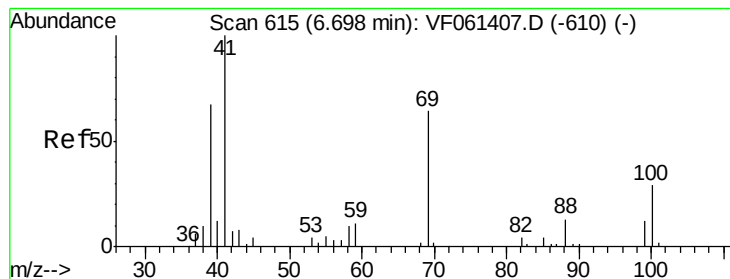
61 0.0 20.3 30.5#

87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.28 min Scan# 572

Delta R.T. -0.42 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

Instrument :

MSVOA_F

ClientSampleId :

TS-QRE

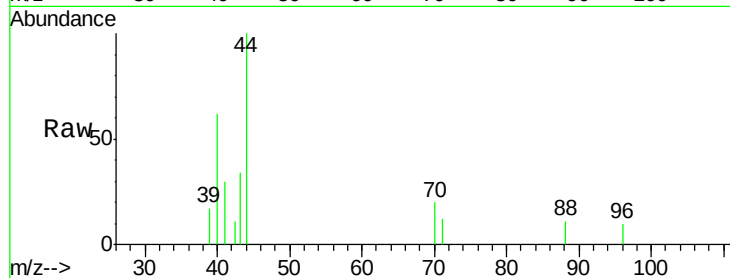
Tot Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 320.4 55.5 83.3#

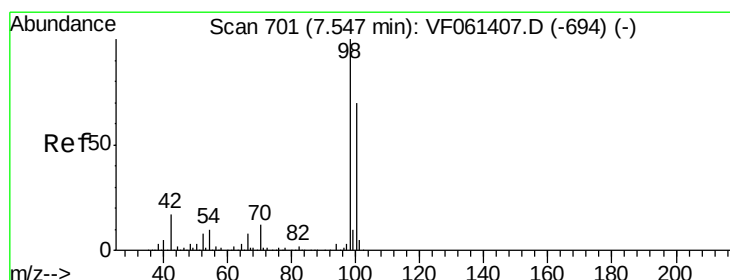
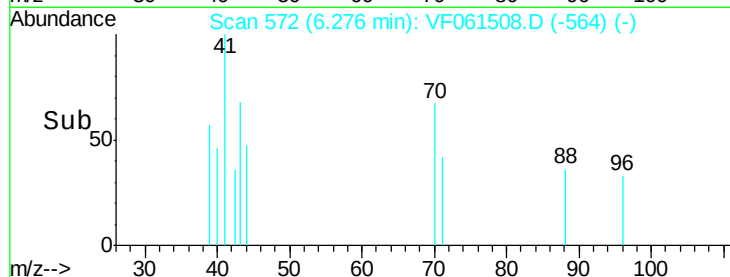
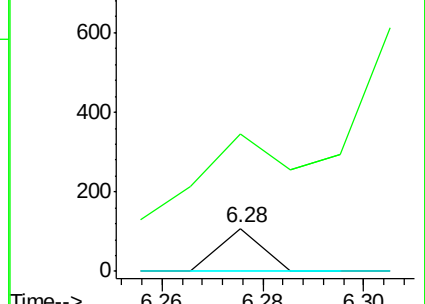
58 0.0 59.9 89.9#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 34.553 ug/l

RT: 7.58 min Scan# 704

Delta R.T. 0.03 min

Lab File: VF061508.D

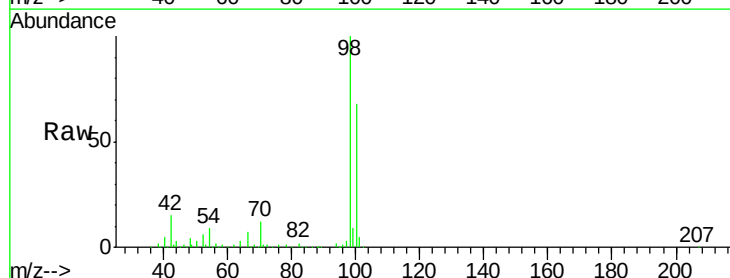
Acq: 24 Jan 2019 19:02

Tgt Ion: 98 Resp: 200517

Ion Ratio Lower Upper

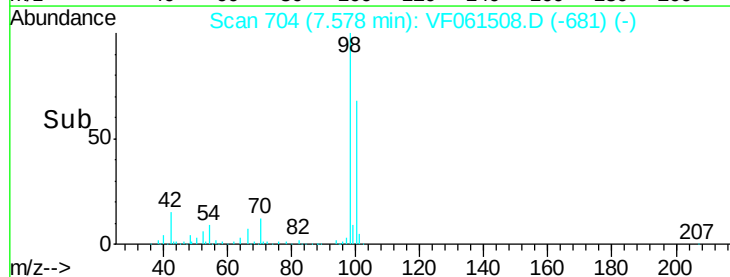
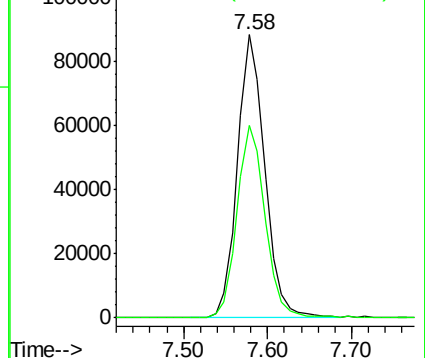
98 100

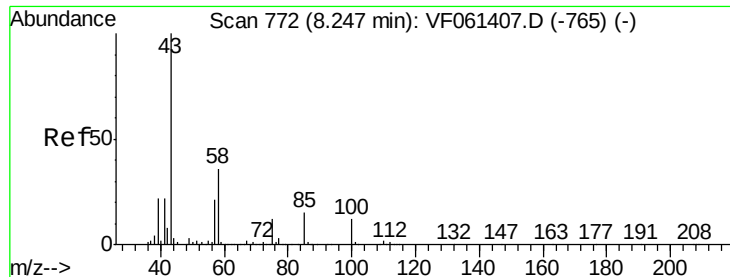
100 68.0 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.432 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.04 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

Instrument :

MSVOA_F

ClientSampleId :

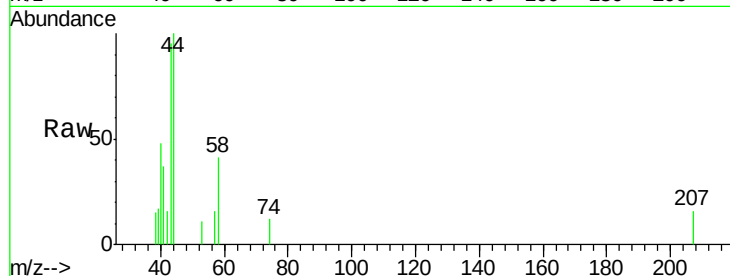
TS-QRE

Tot Ion: 43 Resp: 2792

Ion Ratio Lower Upper

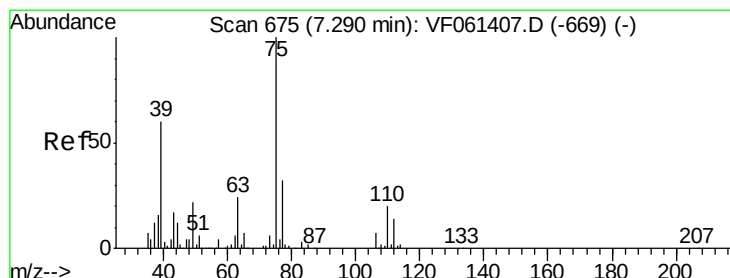
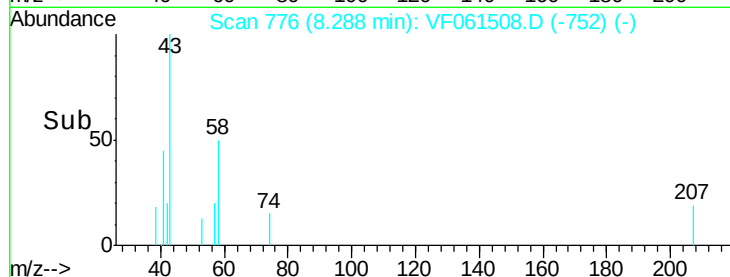
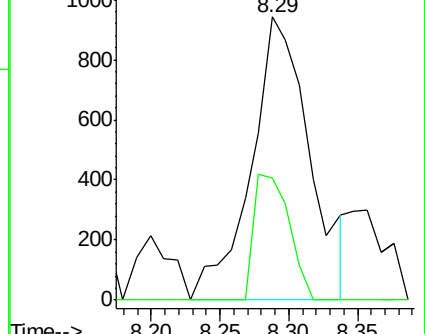
43 100

58 43.0 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 27.856 ug/l

RT: 7.33 min Scan# 679

Delta R.T. 0.04 min

Lab File: VF061508.D

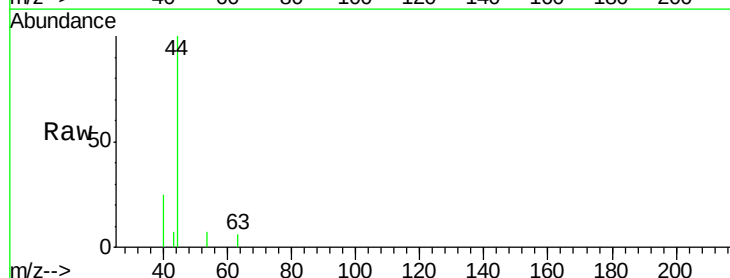
Acq: 24 Jan 2019 19:02

Tgt Ion: 63 Resp: 60

Ion Ratio Lower Upper

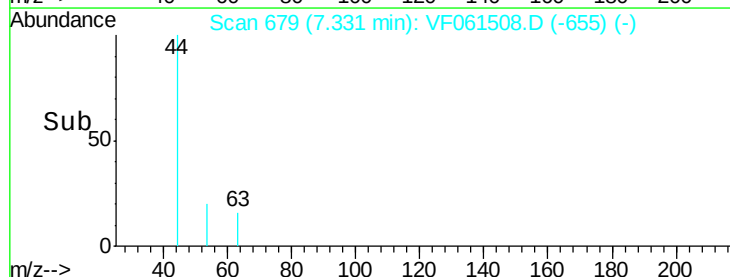
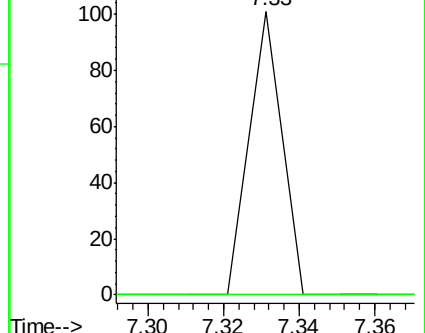
63 100

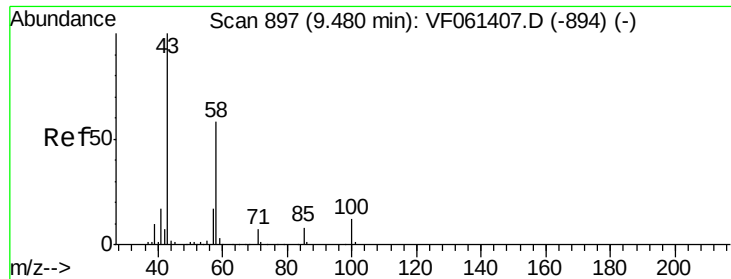
106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

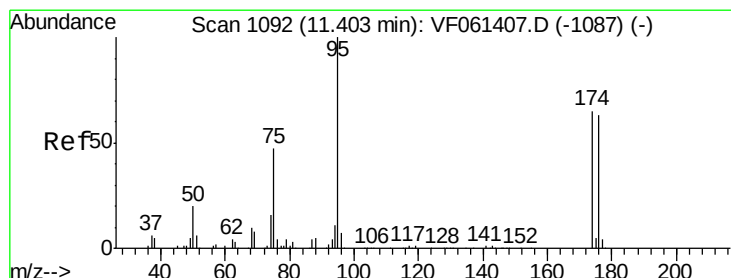
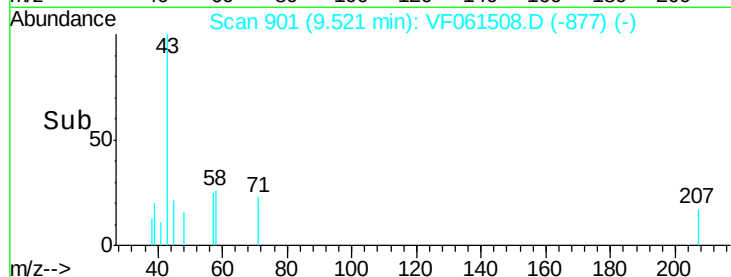
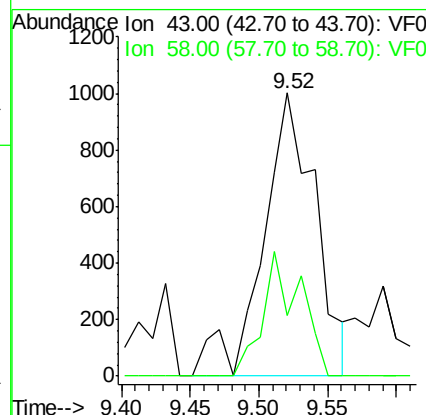
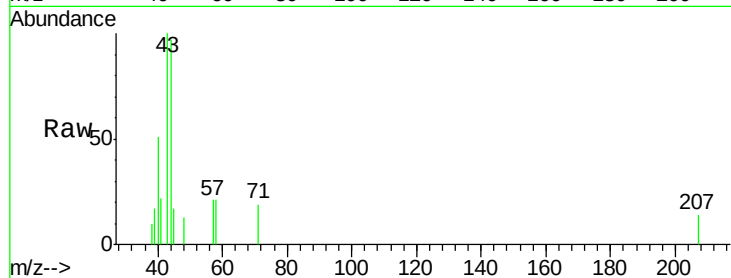




#59
2-Hexanone
Concen: 3.329 ug/l
RT: 9.52 min Scan# 901
Delta R.T. 0.04 min
Lab File: VF061508.D
Acq: 24 Jan 2019 19:02

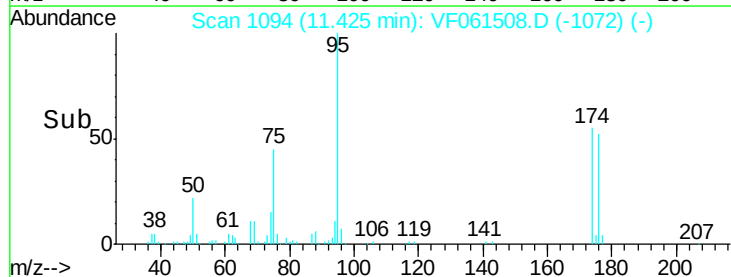
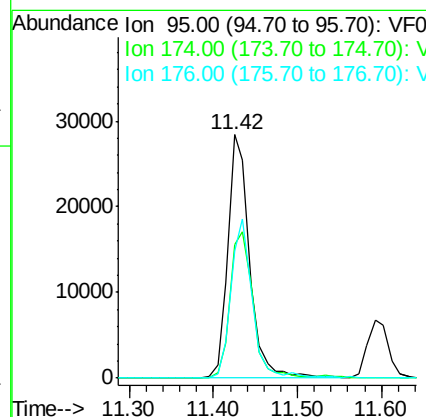
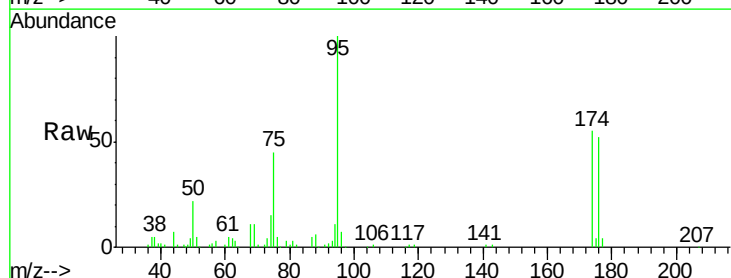
Instrument :
MSVOA_F
ClientSampleId :
TS-QRE

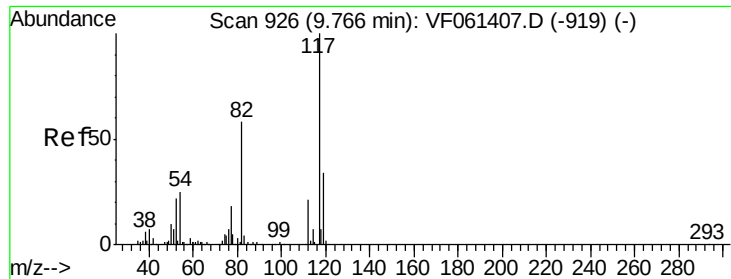
Tot Ion: 43 Resp: 2665
Ion Ratio Lower Upper
43 100
58 21.4 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 18.784 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.02 min
Lab File: VF061508.D
Acq: 24 Jan 2019 19:02

Tgt Ion: 95 Resp: 50930
Ion Ratio Lower Upper
95 100
174 54.7 0.0 130.4
176 52.4 0.0 126.2

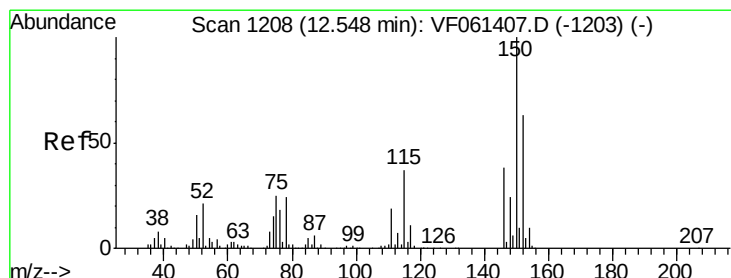
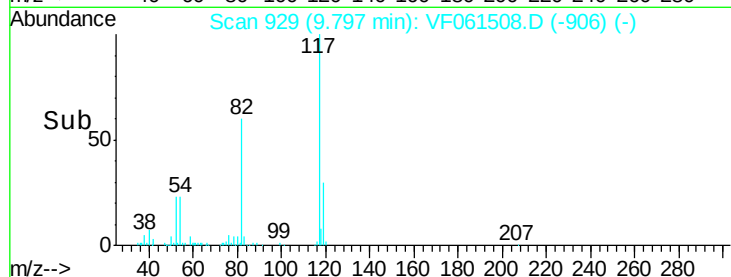
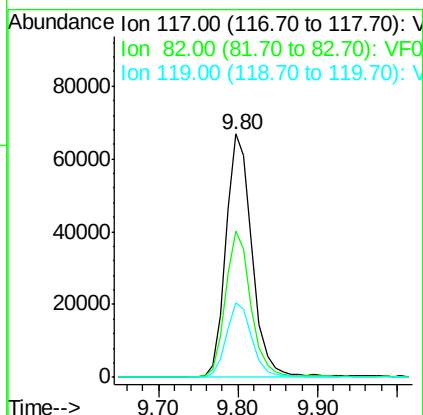
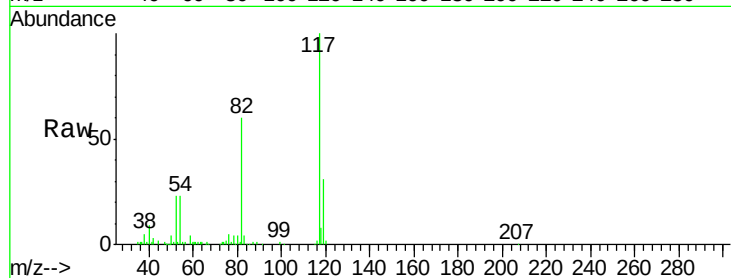




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. 0.03 min
Lab File: VF061508.D
Acq: 24 Jan 2019 19:02

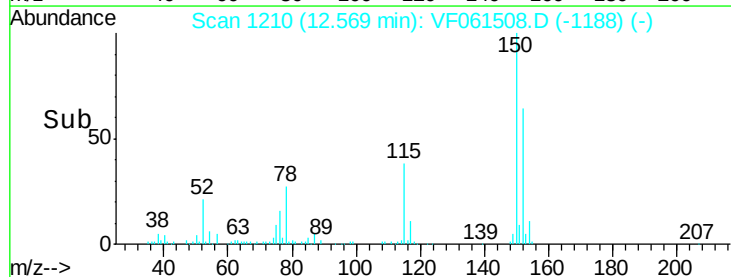
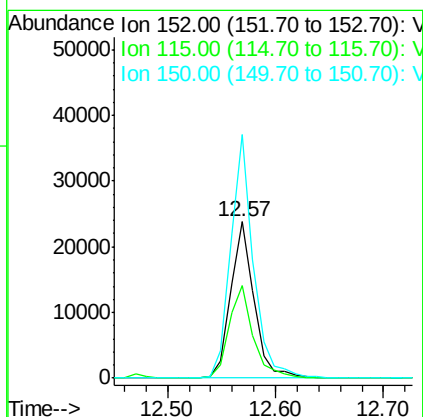
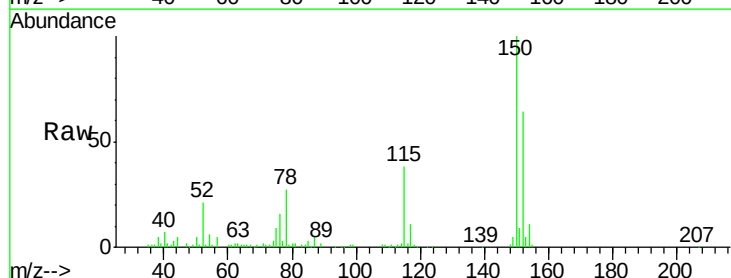
Instrument :
MSVOA_F
ClientSampleId :
TS-QRE

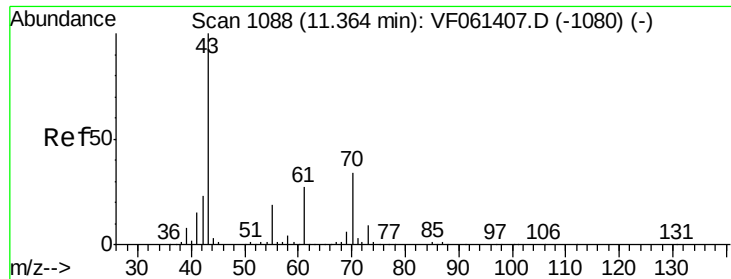
Tot Ion:117 Resp: 154520
Ion Ratio Lower Upper
117 100
82 59.9 46.4 69.6
119 30.6 27.2 40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1210
Delta R.T. 0.02 min
Lab File: VF061508.D
Acq: 24 Jan 2019 19:02

Tgt Ion:152 Resp: 36006
Ion Ratio Lower Upper
152 100
115 59.0 30.0 90.0
150 155.9 0.0 321.4





#74

N-amvl acetate

Concen: 1.012 ug/l

RT: 11.40 min Scan# 1091

Delta R.T. 0.03 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

Instrument :

MSVOA_F

ClientSampleId :

TS-QRE

Tot Ion: 43 Resp: 701

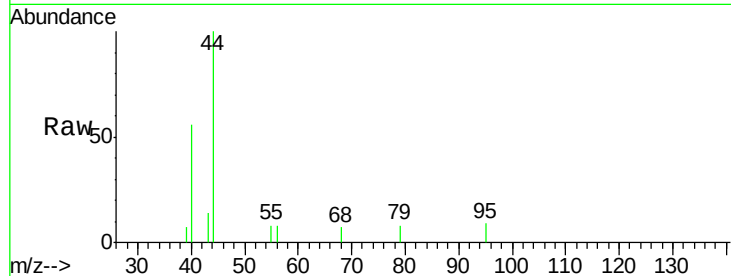
Ion Ratio Lower Upper

43 100

70 0.0 27.6 41.4#

55 59.4 15.4 23.2#

61 0.0 21.8 32.6#

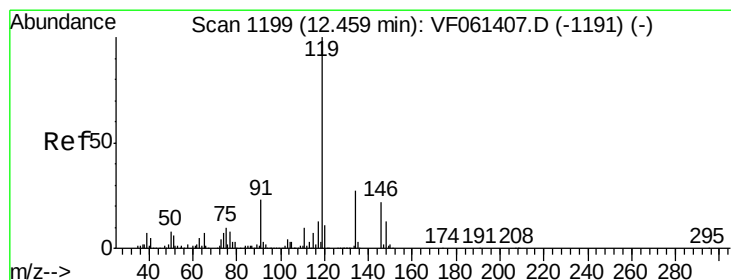
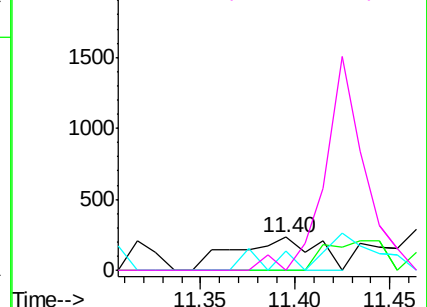
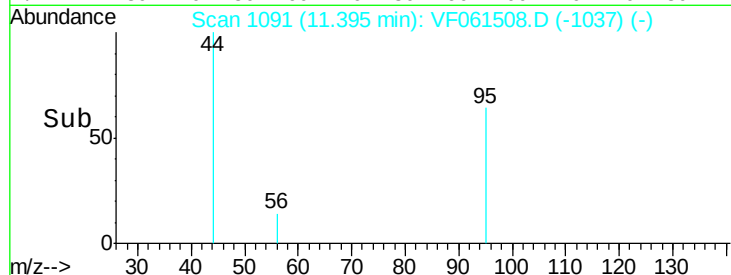


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#86

p-Isopropyltoluene

Concen: 4.577 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VF061508.D

Acq: 24 Jan 2019 19:02

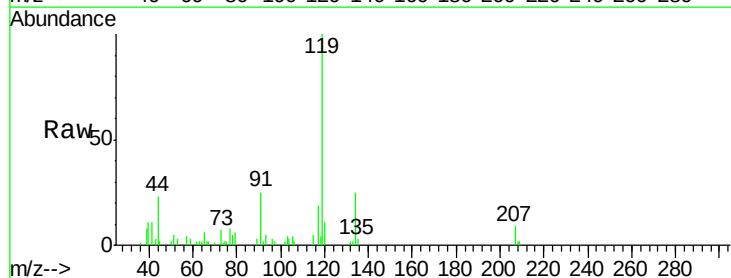
Tgt Ion: 119 Resp: 12481

Ion Ratio Lower Upper

119 100

134 25.2 13.4 40.2

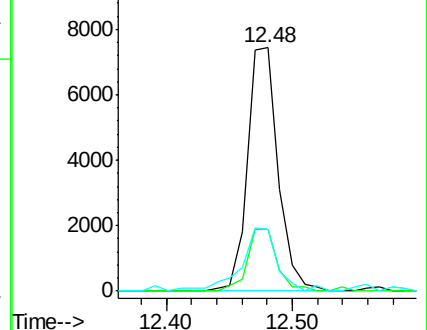
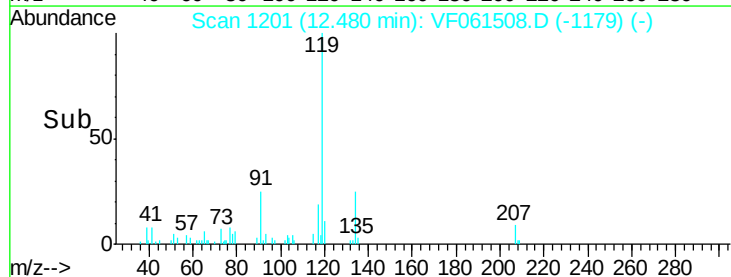
91 25.4 11.4 34.2

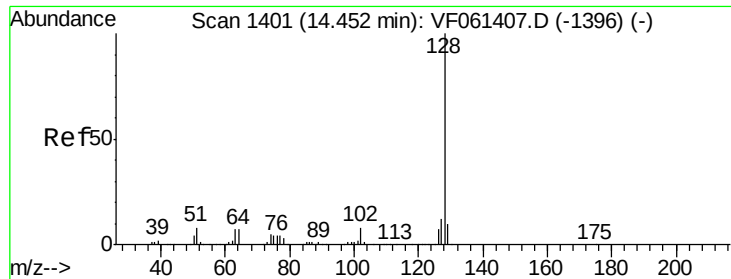


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

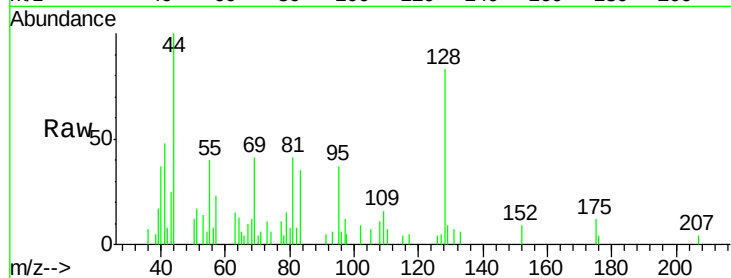




#95
 Naphthalene
 Concen: 2.378 ug/l
 RT: 14.47 min Scan# 1403
 Delta R.T. 0.02 min
 Lab File: VF061508.D
 Acq: 24 Jan 2019 19:02

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-QRE

Tot Ion:128 Resp: 3661
 Ion Ratio Lower Upper
 128 100
 127 6.1 9.5 14.3#
 129 10.6 8.4 12.6



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

