

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062467.D
 Acq On : 11 May 2019 18:32
 Operator : FY/SY
 Sample : K2734-15
 Misc : 6.39g/5mL/MSVOA F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS013-1824-01

Quant Time: May 12 03:48:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	122348	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	193099	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	147461	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	80864	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	106741	92.32	ug/l	0.02
Spiked Amount			Recovery	=	184.64%	
35) Dibromofluoromethane	4.31	113	104327	67.82	ug/l	0.01
Spiked Amount			Recovery	=	135.64%	
50) Toluene-d8	7.72	98	120079	32.25	ug/l	0.01
Spiked Amount			Recovery	=	64.50%	
62) 4-Bromofluorobenzene	11.50	95	57028	33.94	ug/l	0.01
Spiked Amount			Recovery	=	67.88%	

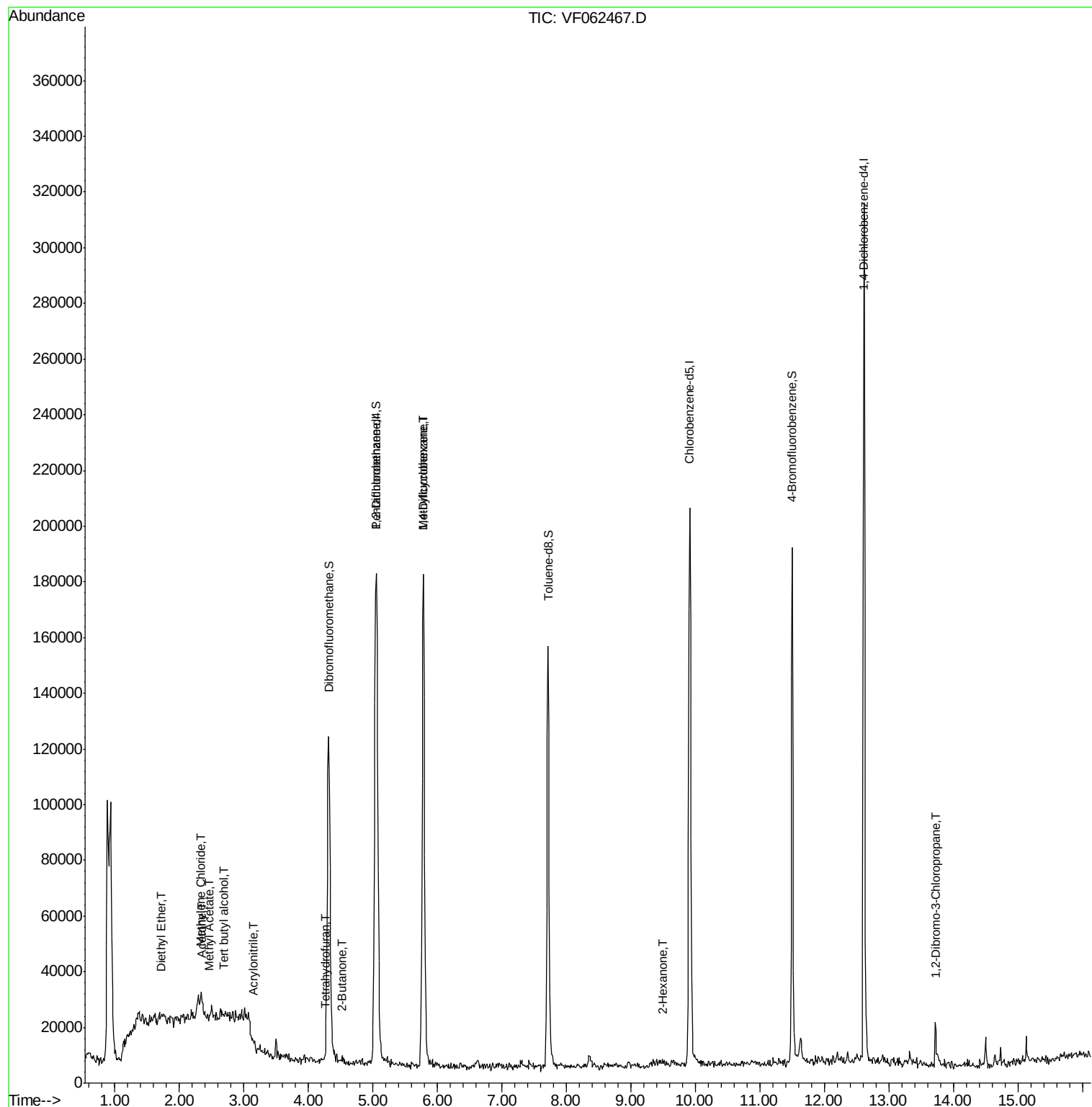
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	143	Below Cal	#	3
8) Diethyl Ether	1.71	74	460	1.573	ug/l	54
11) Tert butyl alcohol	2.68	59	836	12.793	ug/l #	41
13) Acrolein	2.13	56	646	Below Cal	#	13
15) Acrylonitrile	3.15	53	509	4.112	ug/l #	56
16) Acetone	2.36	43	11222	47.978	ug/l #	85
18) Methyl Acetate	2.46	43	1988	1.631	ug/l	99
20) Methylene Chloride	2.34	84	3988	4.713	ug/l #	67
25) 2-Butanone	4.52	43	954	3.247	ug/l	95
29) Tetrahydrofuran	4.26	42	323	2.392	ug/l #	11
37) Ethyl Acetate	4.32	43	317	Below Cal	#	71
38) Carbon Tetrachloride	4.26	117	64	Below Cal	#	14
39) Methylcyclohexane	5.78	83	3534	2.124	ug/l #	24
49) 1,4-Dioxane	7.02	88	67	Below Cal	#	16
59) 2-Hexanone	9.48	43	576	1.457	ug/l	73
92) 1,2-Dibromo-3-Chloropropan	13.71	75	186	1.106	ug/l #	1

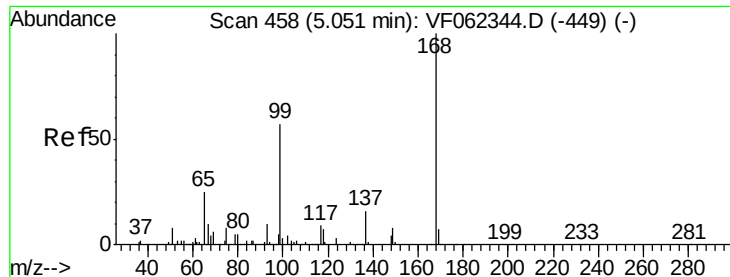
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

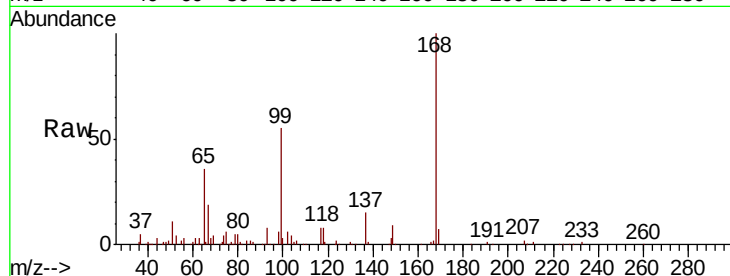
P026-SS013-1824-01

Tot Ion:168 Resp: 122348

Ion Ratio Lower Upper

168 100

99 54.5 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.06

40000

30000

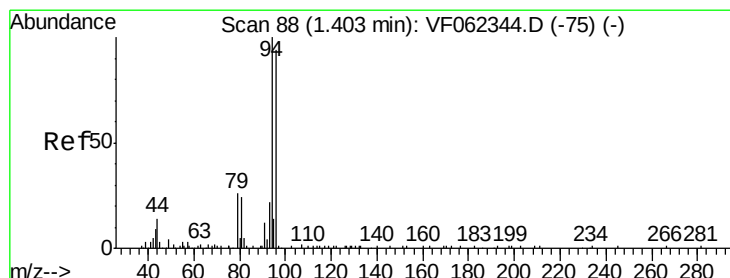
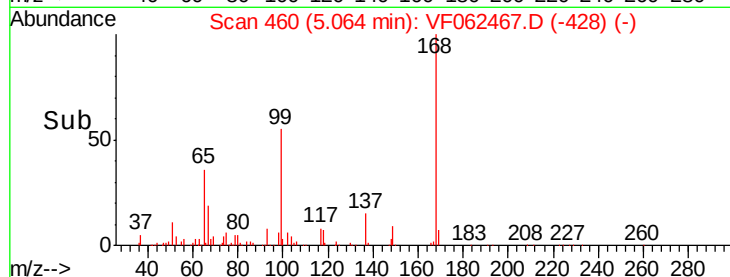
20000

10000

0

Time-->

4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.02 min

Lab File: VF062467.D

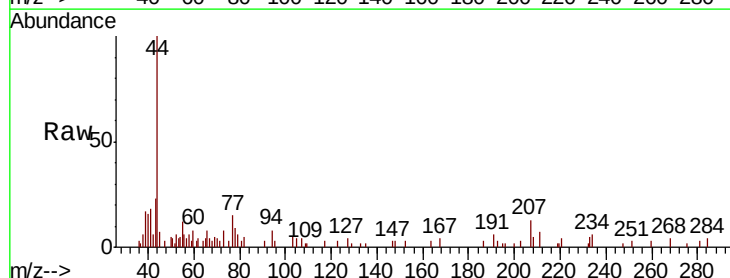
Acq: 11 May 2019 18:32

Tgt Ion: 94 Resp: 143

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.39

400

300

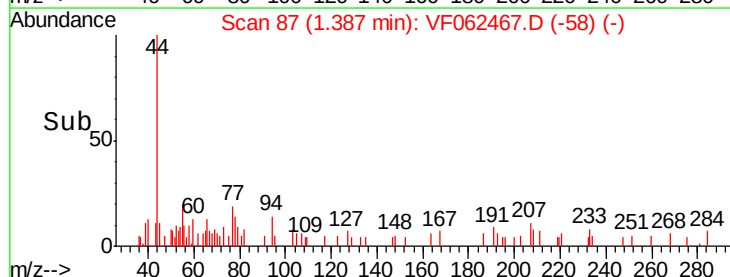
200

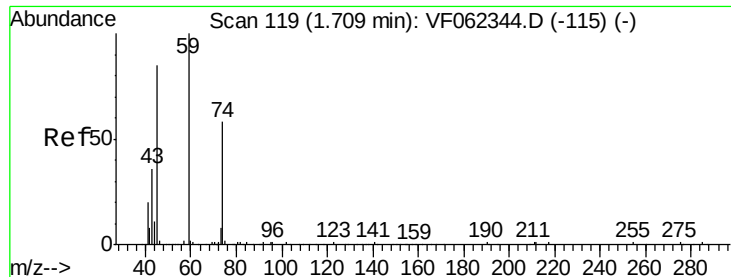
100

0

Time-->

1.37 1.38 1.39 1.40





#8

Diethyl Ether

Concen: 1.573 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.00 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

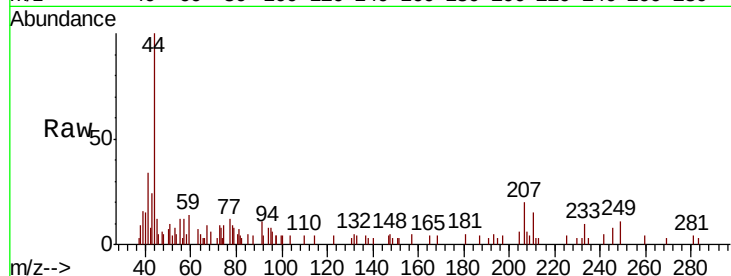
P026-SS013-1824-01

Tot Ion: 74 Resp: 460

Ion Ratio Lower Upper

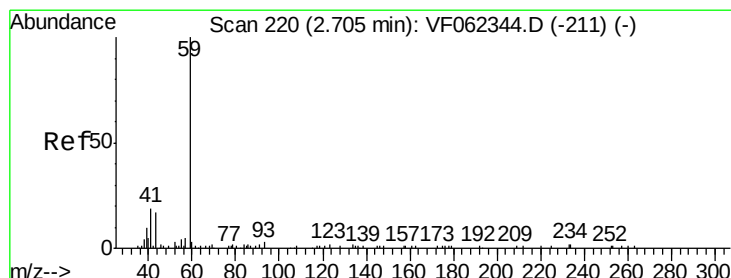
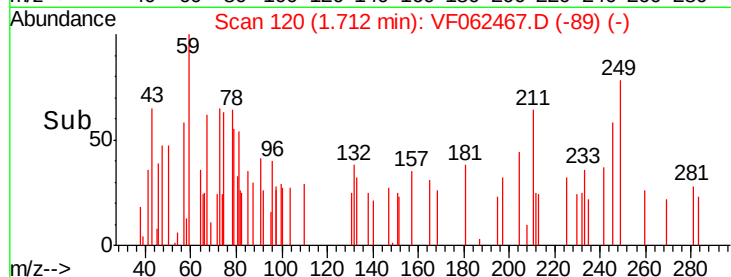
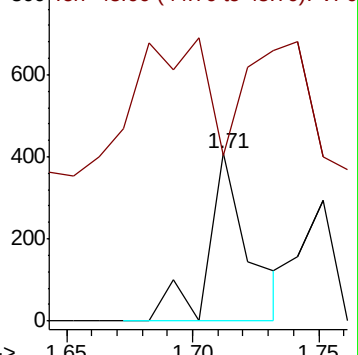
74 100

45 206.1 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 12.793 ug/l

RT: 2.68 min Scan# 218

Delta R.T. -0.03 min

Lab File: VF062467.D

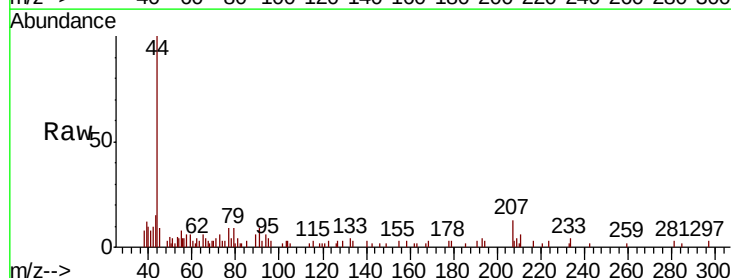
Acq: 11 May 2019 18:32

Tgt Ion: 59 Resp: 836

Ion Ratio Lower Upper

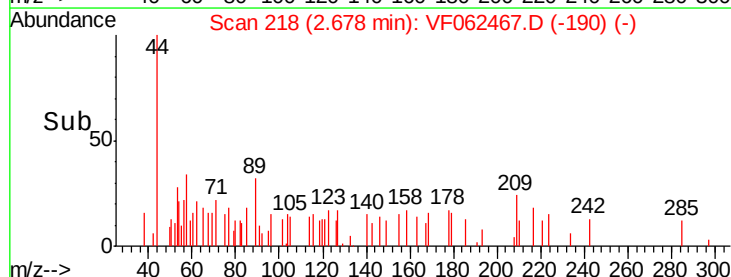
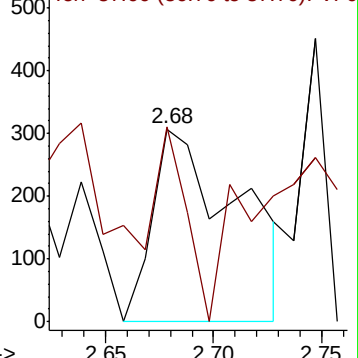
59 100

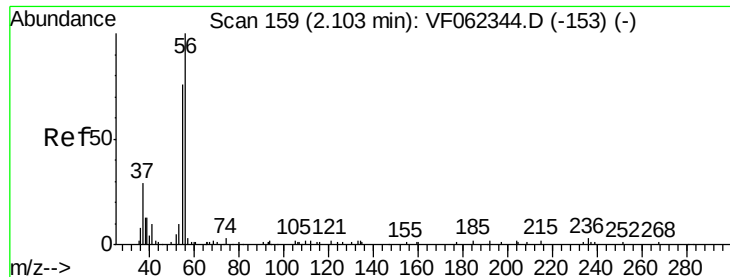
57 34.2 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.13 min Scan# 162

Delta R.T. 0.02 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

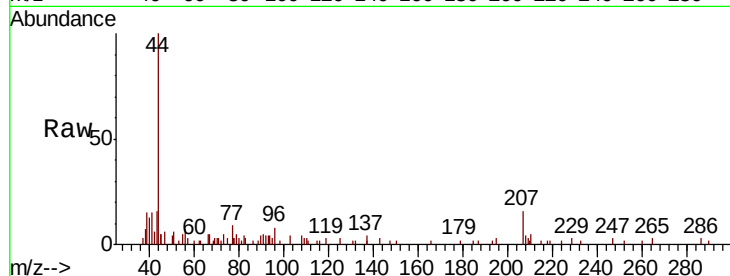
P026-SS013-1824-01

Tot Ion: 56 Resp: 646

Ion Ratio Lower Upper

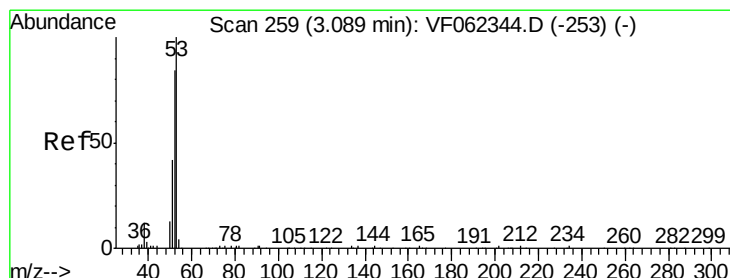
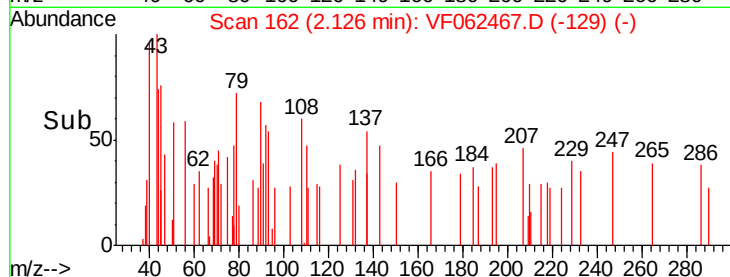
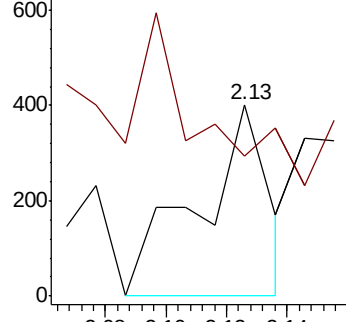
56 100

55 0.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 4.112 ug/l

RT: 3.15 min Scan# 266

Delta R.T. 0.06 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

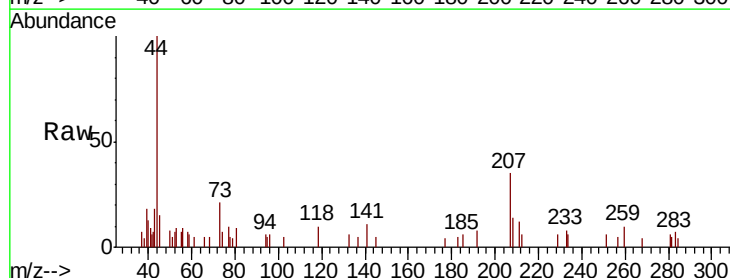
Tgt Ion: 53 Resp: 509

Ion Ratio Lower Upper

53 100

52 81.5 77.2 115.8

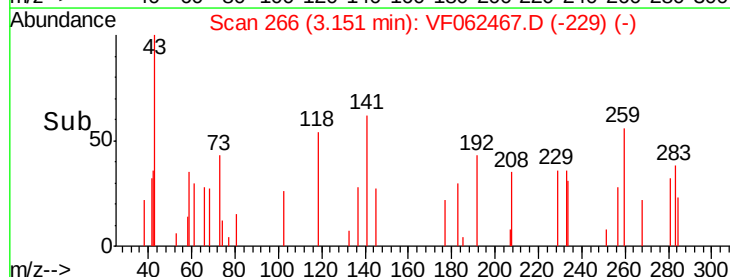
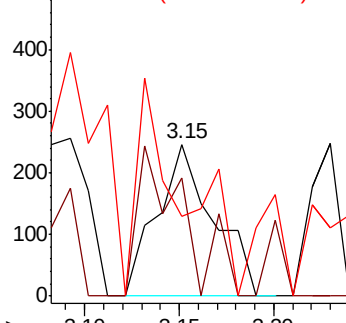
51 118.3 40.6 61.0#

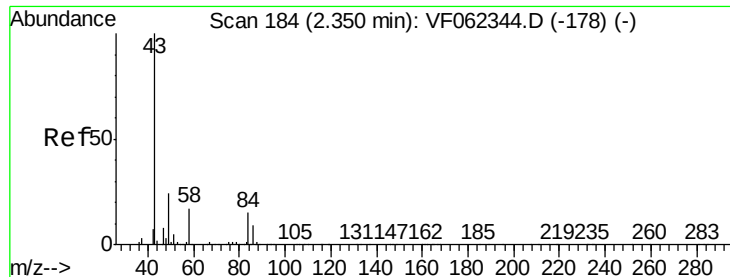


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

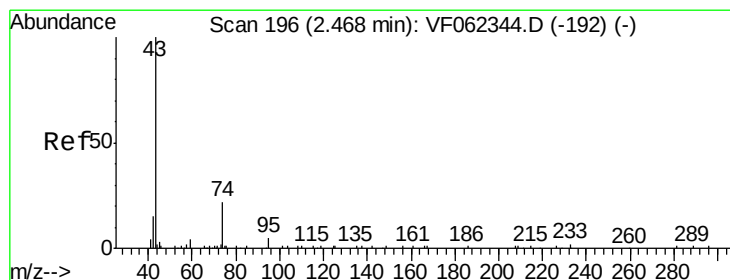
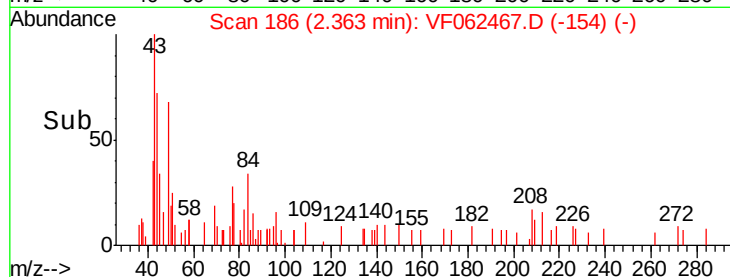
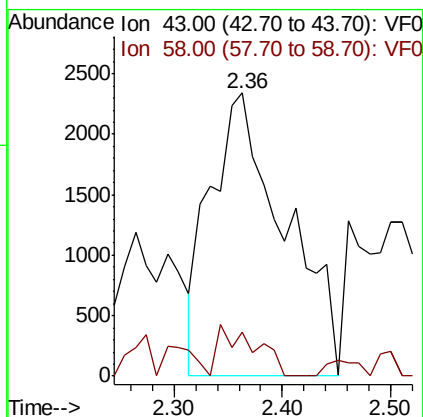
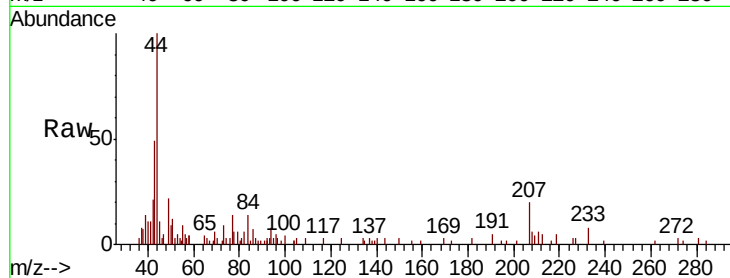




#16
Acetone
Concen: 47.978 ug/l
RT: 2.36 min Scan# 186
Delta R.T. 0.01 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

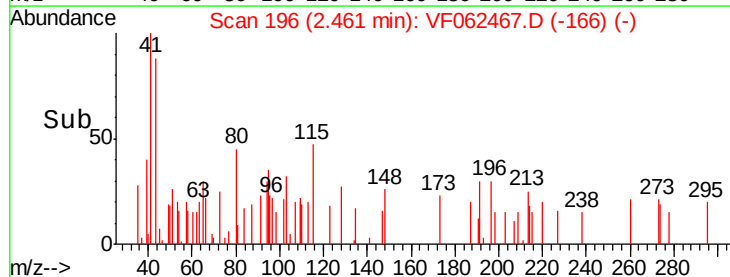
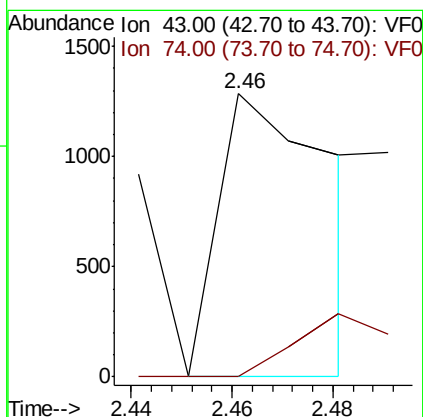
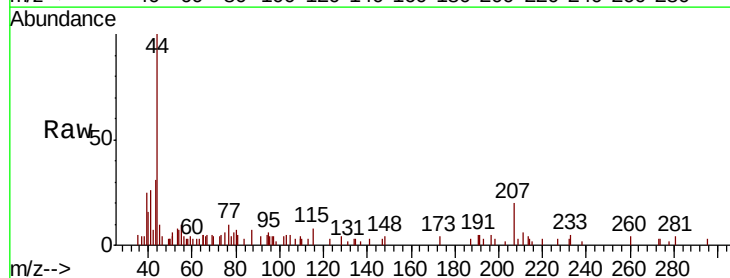
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1824-01

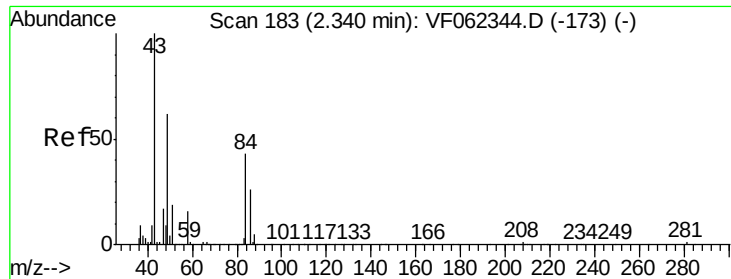
Tot Ion: 43 Resp: 11222
Ion Ratio Lower Upper
43 100
58 10.0 13.1 19.7#



#18
Methyl Acetate
Concen: 1.631 ug/l
RT: 2.46 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

Tgt Ion: 43 Resp: 1988
Ion Ratio Lower Upper
43 100
74 18.4 15.0 22.4

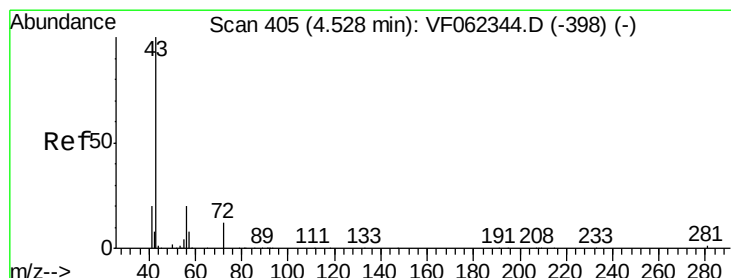
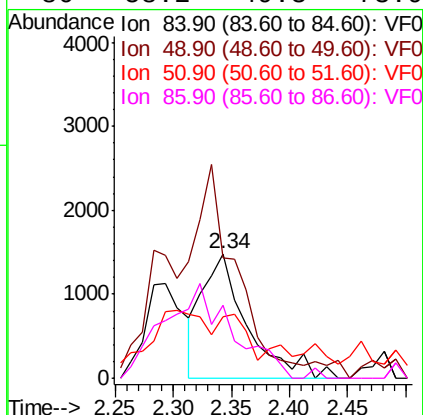
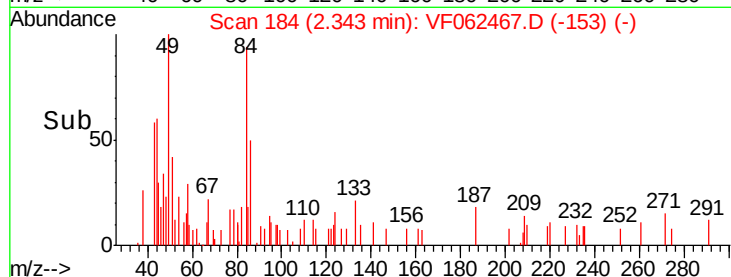
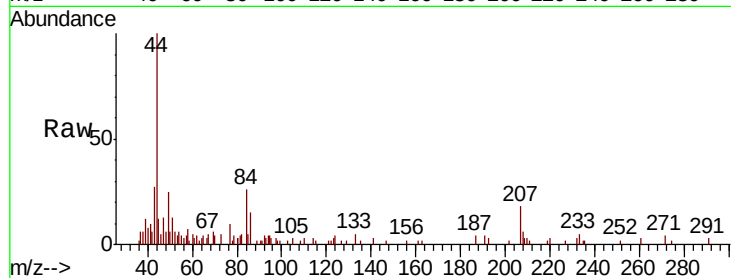




#20
Methylene Chloride
Concen: 4.713 ug/l
RT: 2.34 min Scan# 184
Delta R.T. 0.00 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

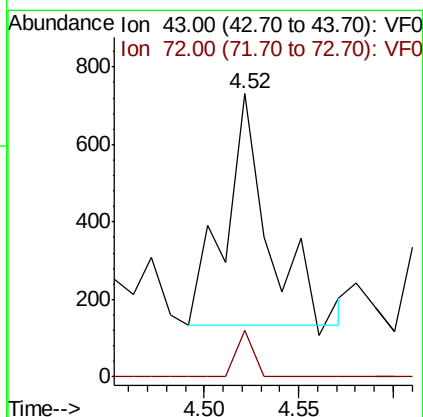
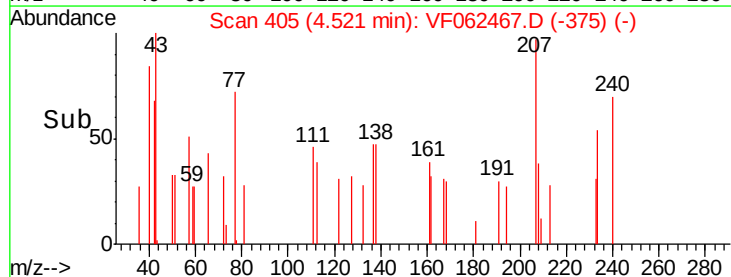
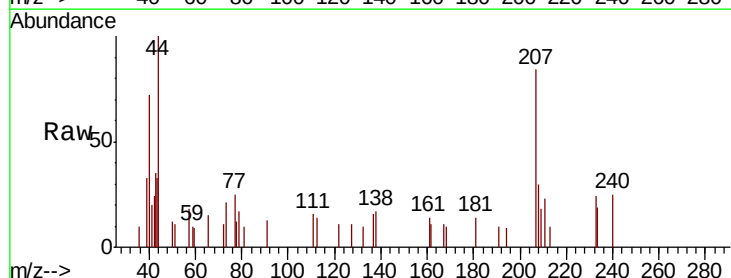
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1824-01

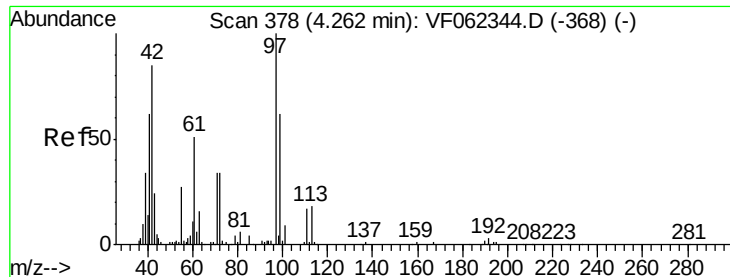
Tot Ion: 84 Resp: 3988
Ion Ratio Lower Upper
84 100
49 82.1 117.5 176.3#
51 37.9 37.0 55.4
86 58.2 49.3 73.9



#25
2-Butanone
Concen: 3.247 ug/l
RT: 4.52 min Scan# 405
Delta R.T. -0.01 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

Tgt Ion: 43 Resp: 954
Ion Ratio Lower Upper
43 100
72 20.0 14.2 21.4





#29

Tetrahydrofuran

Concen: 2.392 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1824-01

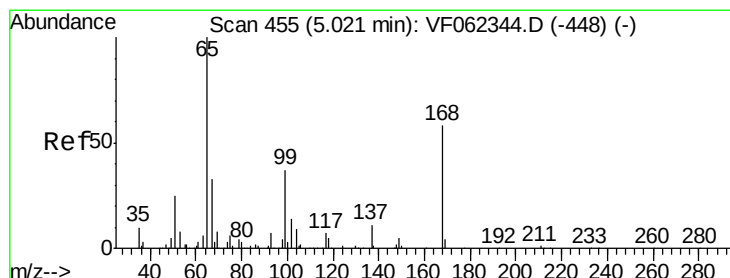
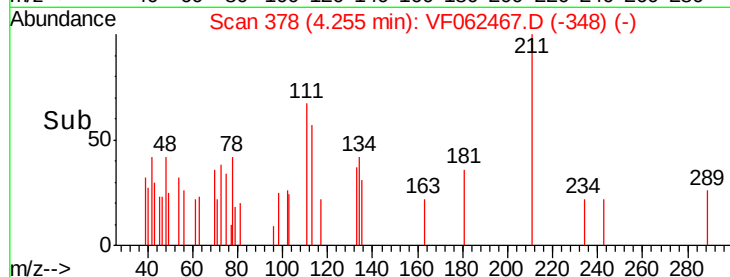
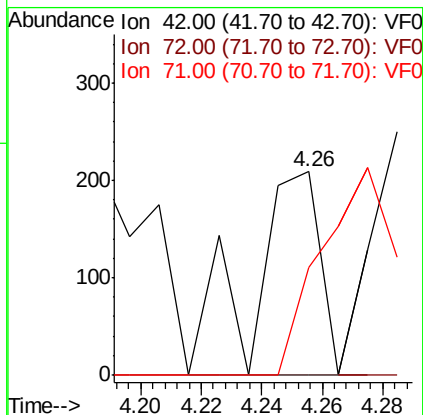
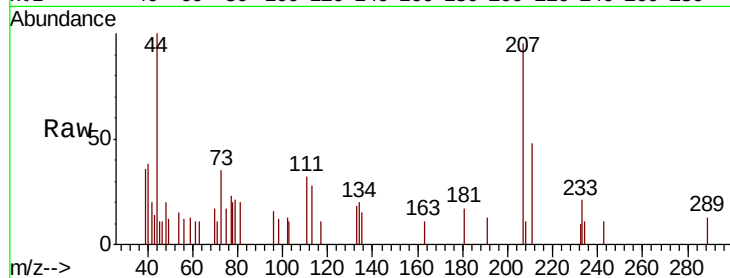
Tot Ion: 42 Resp: 323

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 109.3 31.7 47.5#



#33

1,2-Dichloroethane-d4

Concen: 92.317 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF062467.D

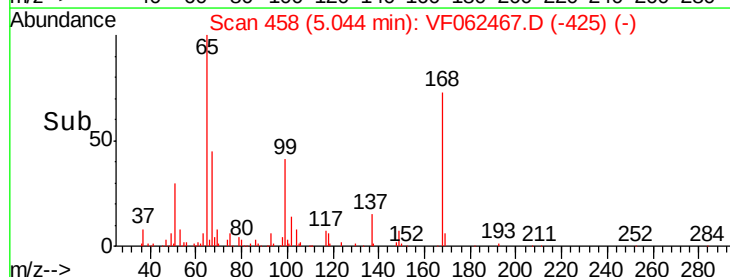
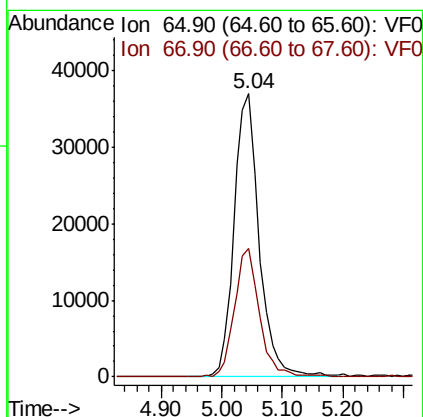
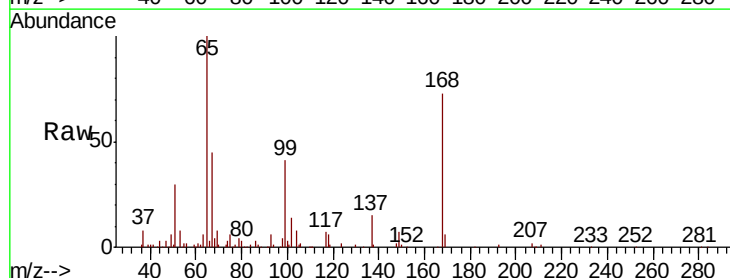
Acq: 11 May 2019 18:32

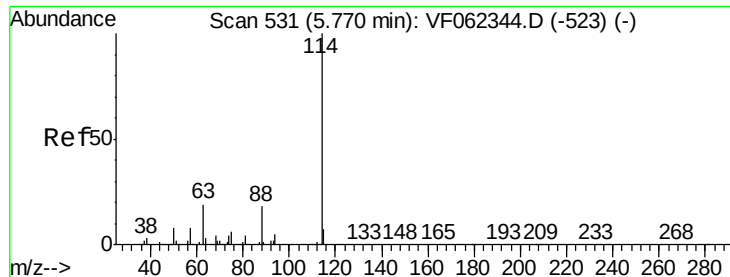
Tgt Ion: 65 Resp: 106741

Ion Ratio Lower Upper

65 100

67 44.9 0.0 85.8

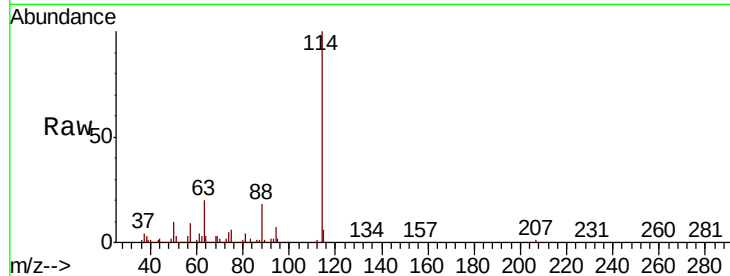




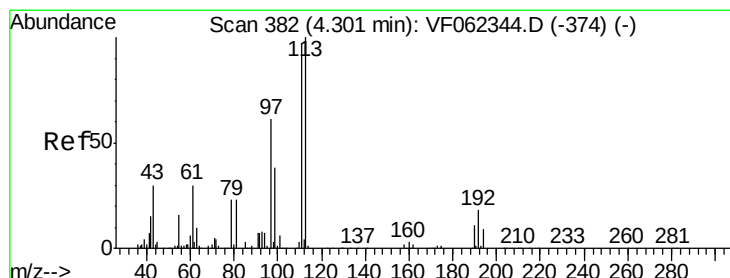
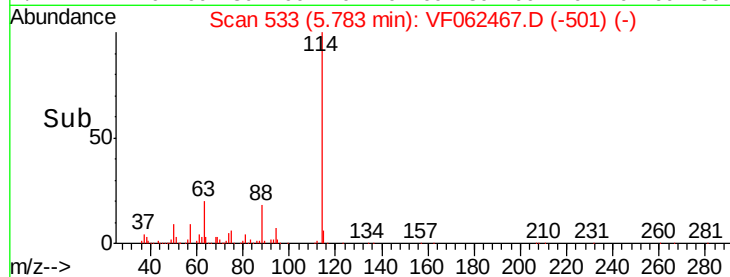
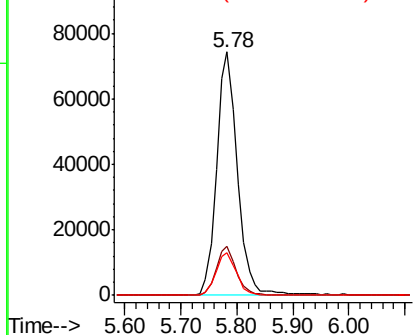
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.78 min Scan# 533
Delta R.T. 0.01 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1824-01

Tot Ion:114	Resp:	193099
Ion	Ratio	Lower Upper
114	100	
63	19.9	0.0 37.4
88	17.5	0.0 36.4

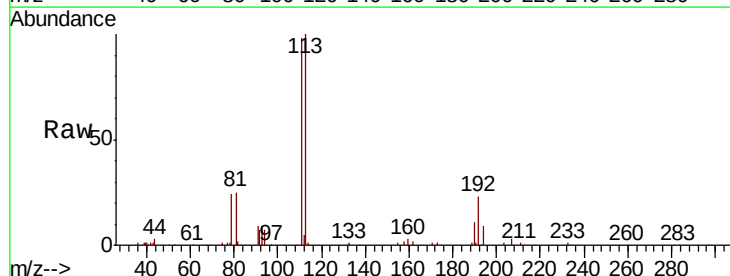


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 87.90 (87.60 to 88.60): VF0

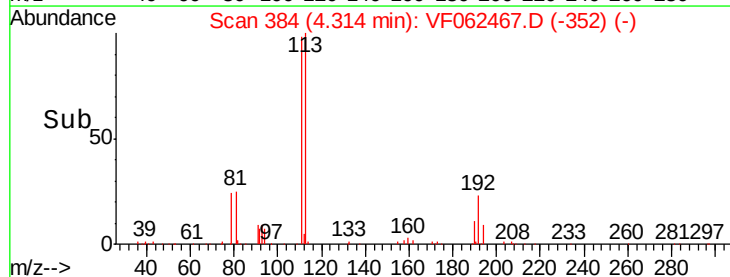
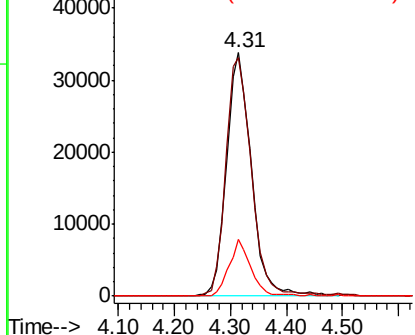


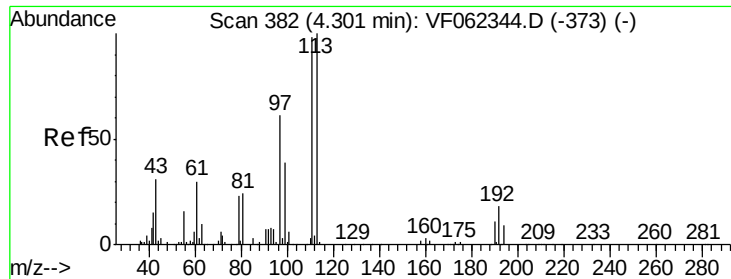
#35
Dibromofluoromethane
Concen: 67.816 ug/l
RT: 4.31 min Scan# 384
Delta R.T. 0.01 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

Tgt Ion:113	Resp:	104327
Ion	Ratio	Lower Upper
113	100	
111	100.8	79.4 119.0
192	20.3	16.0 24.0



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

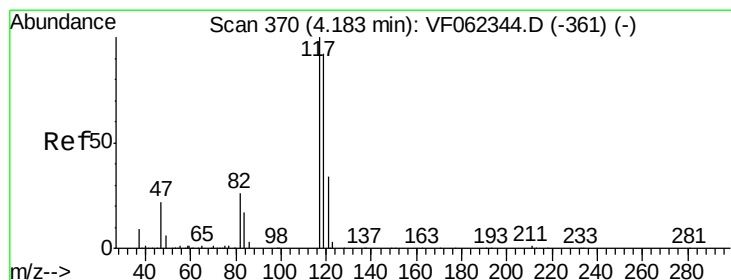
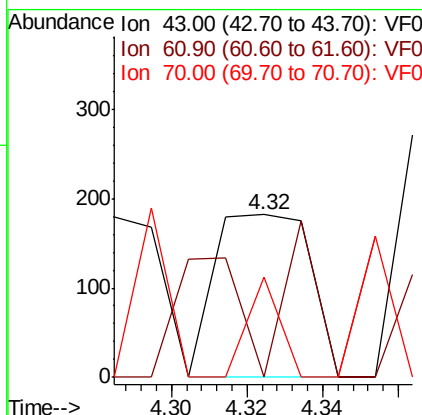
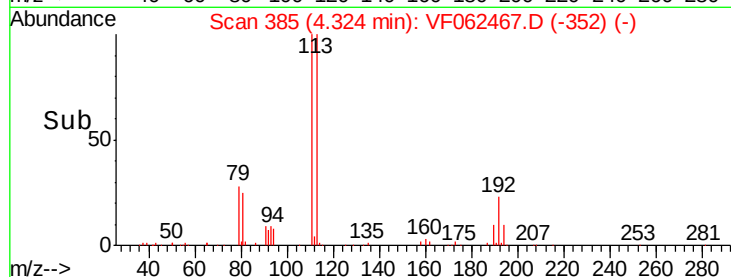
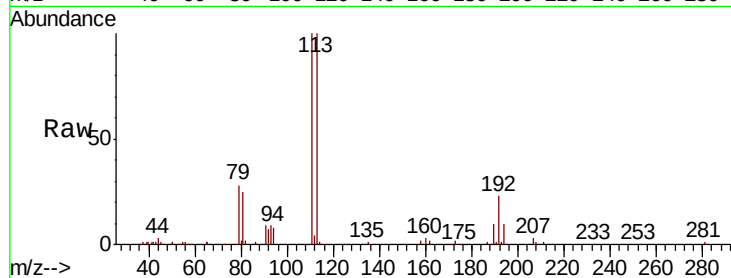




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 385
Delta R.T. 0.02 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

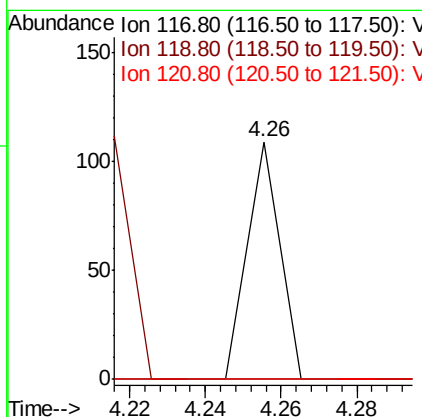
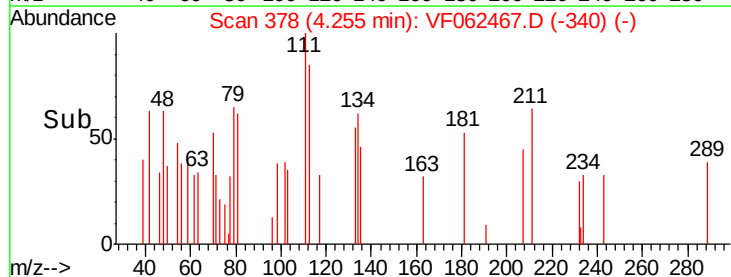
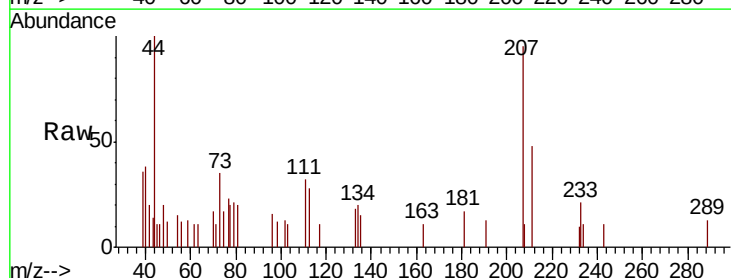
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1824-01

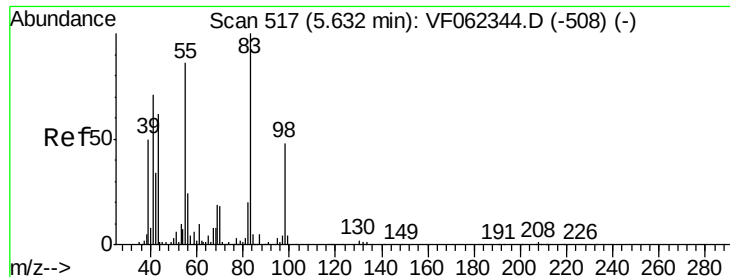
Tot Ion: 43 Resp: 317
Ion Ratio Lower Upper
43 100
61 49.5 0.0 0.0#
70 20.8 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.26 min Scan# 378
Delta R.T. 0.07 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

Tgt Ion: 117 Resp: 64
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

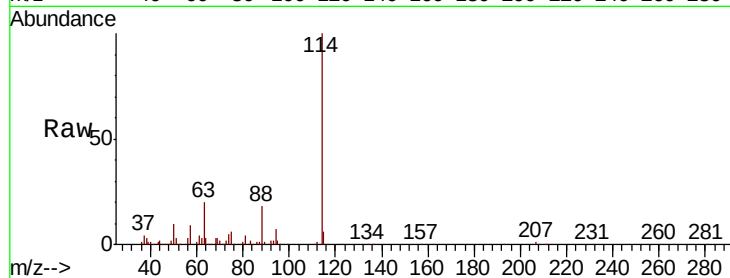




#39
Methylcyclohexane
Concen: 2.124 ug/l
RT: 5.78 min Scan# 533
Delta R.T. 0.15 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

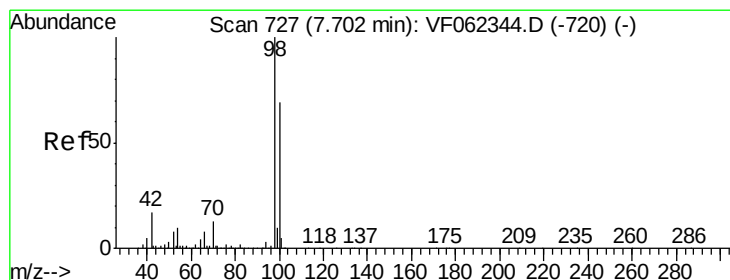
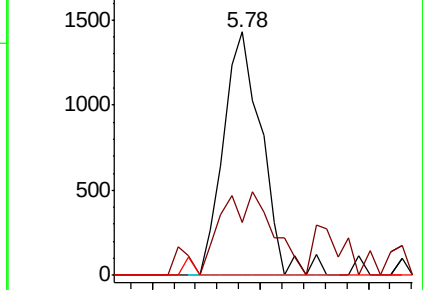
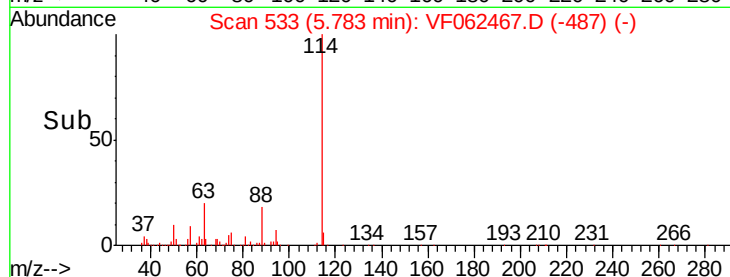
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1824-01

Tot Ion: 83 Resp: 3534
Ion Ratio Lower Upper
83 100
55 14.5 69.0 103.6#
98 0.0 38.6 58.0#



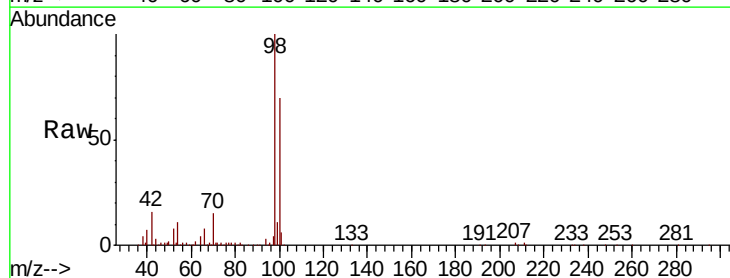
Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

5.78



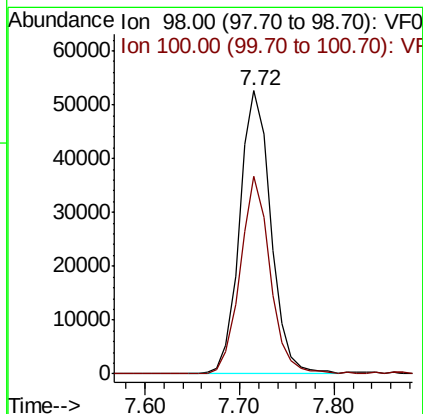
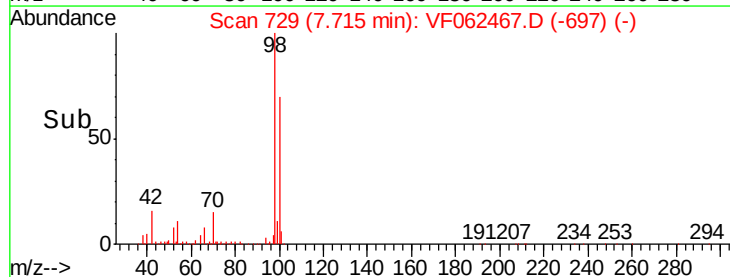
#50
Toluene-d8
Concen: 32.246 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF062467.D
Acq: 11 May 2019 18:32

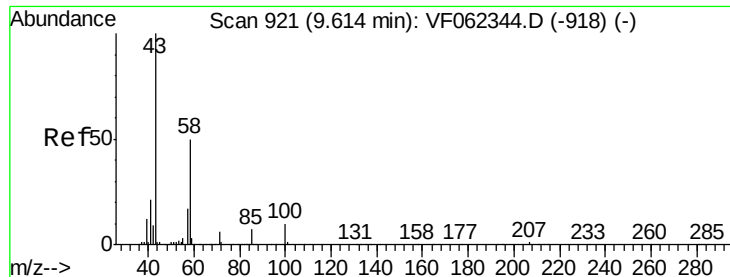
Tgt Ion: 98 Resp: 120079
Ion Ratio Lower Upper
98 100
100 67.0 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0

7.72





#59

2-Hexanone

Concen: 1.457 ug/l

RT: 9.48 min Scan# 908

Delta R.T. -0.13 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

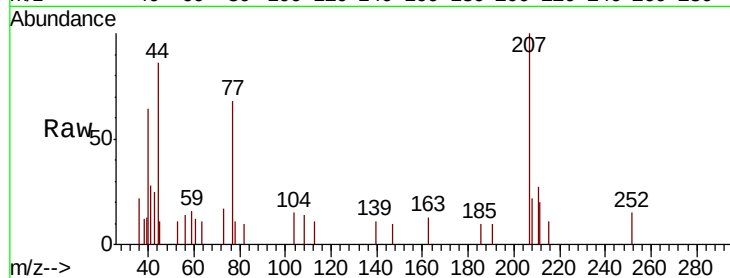
P026-SS013-1824-01

Tot Ion: 43 Resp: 576

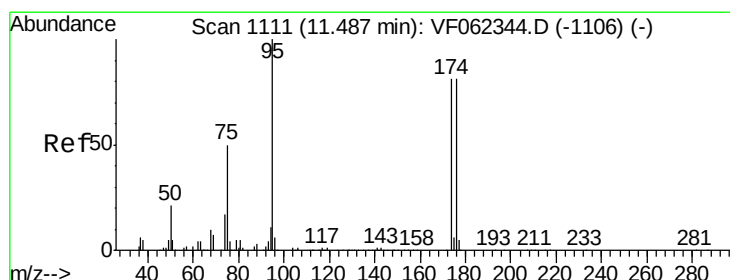
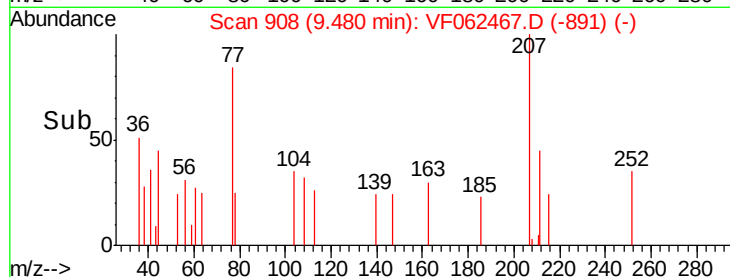
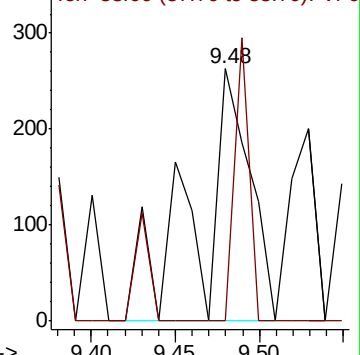
Ion Ratio Lower Upper

43 100

58 30.2 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0



#62

4-Bromofluorobenzene

Concen: 33.944 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

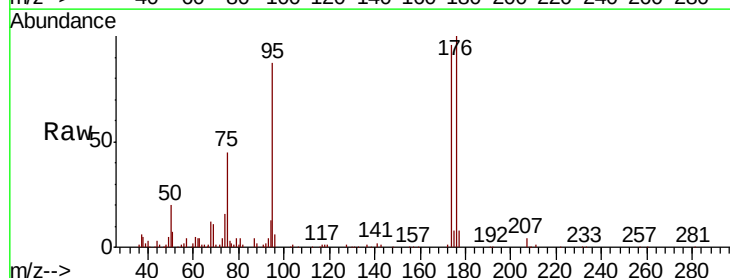
Tgt Ion: 95 Resp: 57028

Ion Ratio Lower Upper

95 100

174 104.3 0.0 191.8

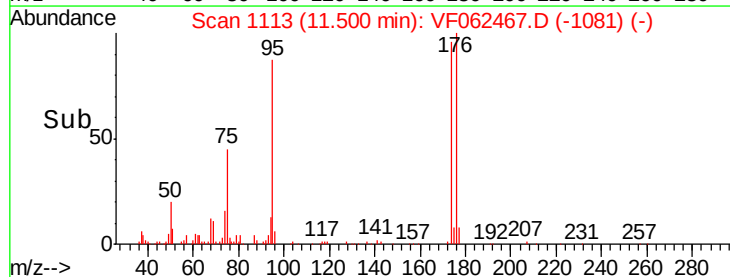
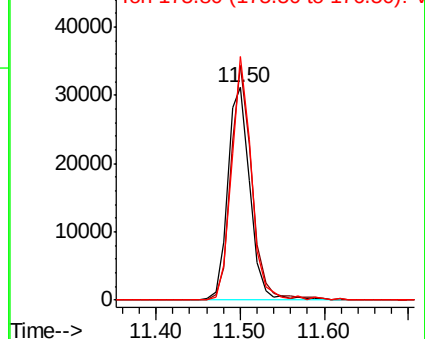
176 102.8 0.0 193.2

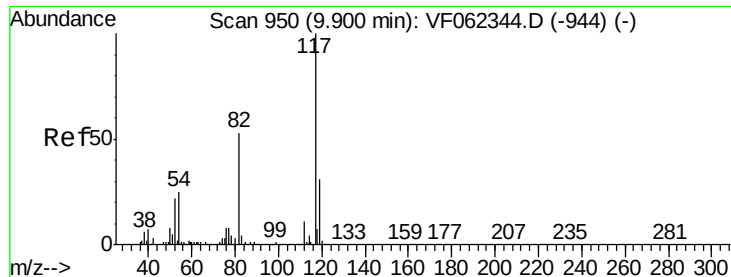


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1824-01

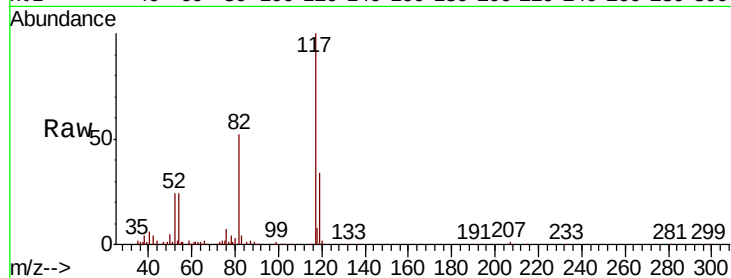
Tot Ion:117 Resp: 147461

Ion Ratio Lower Upper

117 100

82 52.5 42.2 63.2

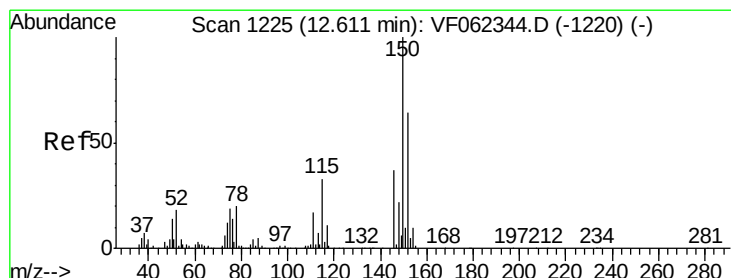
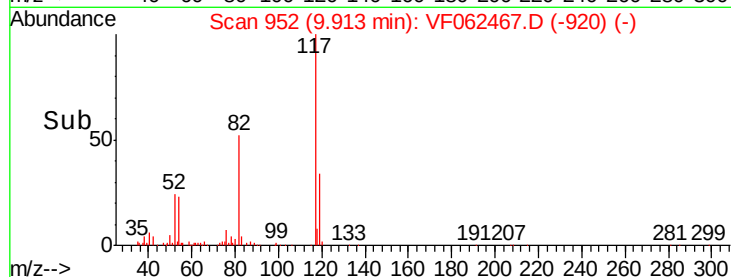
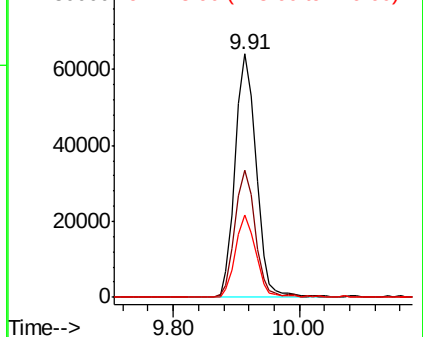
119 34.1 25.0 37.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

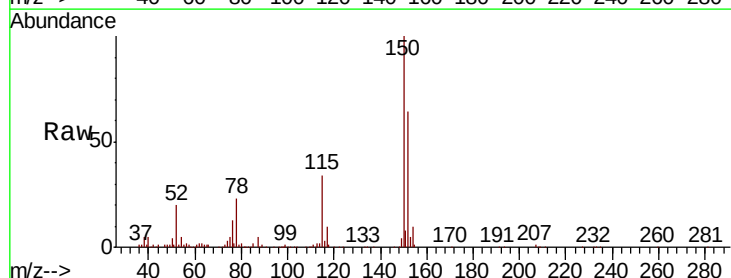
Tgt Ion:152 Resp: 80864

Ion Ratio Lower Upper

152 100

115 53.6 26.4 79.2

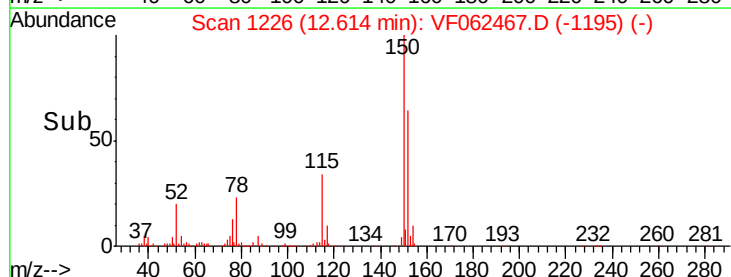
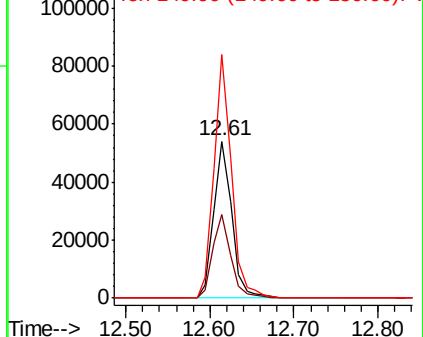
150 150.8 0.0 335.0

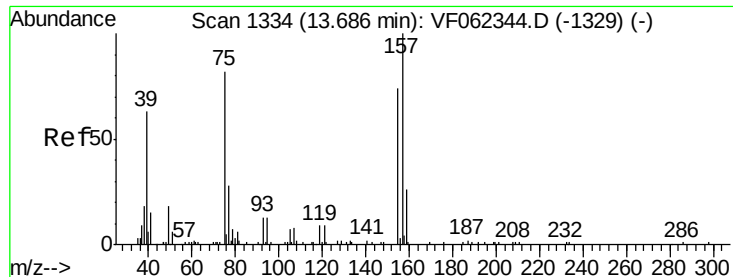


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.106 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. 0.02 min

Lab File: VF062467.D

Acq: 11 May 2019 18:32

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1824-01

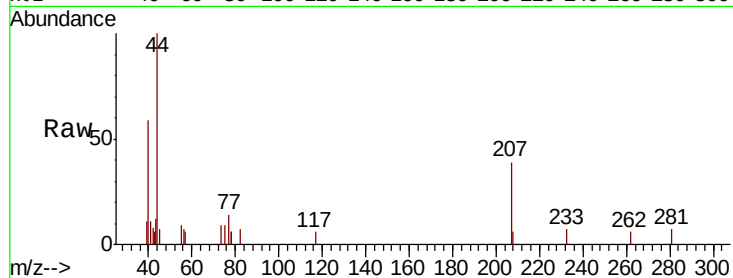
Tot Ion: 75 Resp: 186

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

157 0.0 67.3 201.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

