

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062534.D
 Acq On : 13 May 2019 7:07
 Operator : FY/SY
 Sample : K2734-15RE
 Misc : 5.20g/5mL/MSVOA F/SOIL
 ALS Vial : 45 Sample Multiplier: 1

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

Quant Time: May 13 07:33:43 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	5.08	168	74348	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.79	114	89131	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.93	117	72457	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	32746	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	26494	37.71	ug/l	0.03
Spiked Amount			Recovery	=	75.42%	
35) Dibromofluoromethane	4.33	113	34166	48.11	ug/l	0.03
Spiked Amount			Recovery	=	96.22%	
50) Toluene-d8	7.73	98	67396	39.21	ug/l	0.03
Spiked Amount			Recovery	=	78.42%	
62) 4-Bromofluorobenzene	11.51	95	25091	32.35	ug/l	0.02
Spiked Amount			Recovery	=	64.70%	

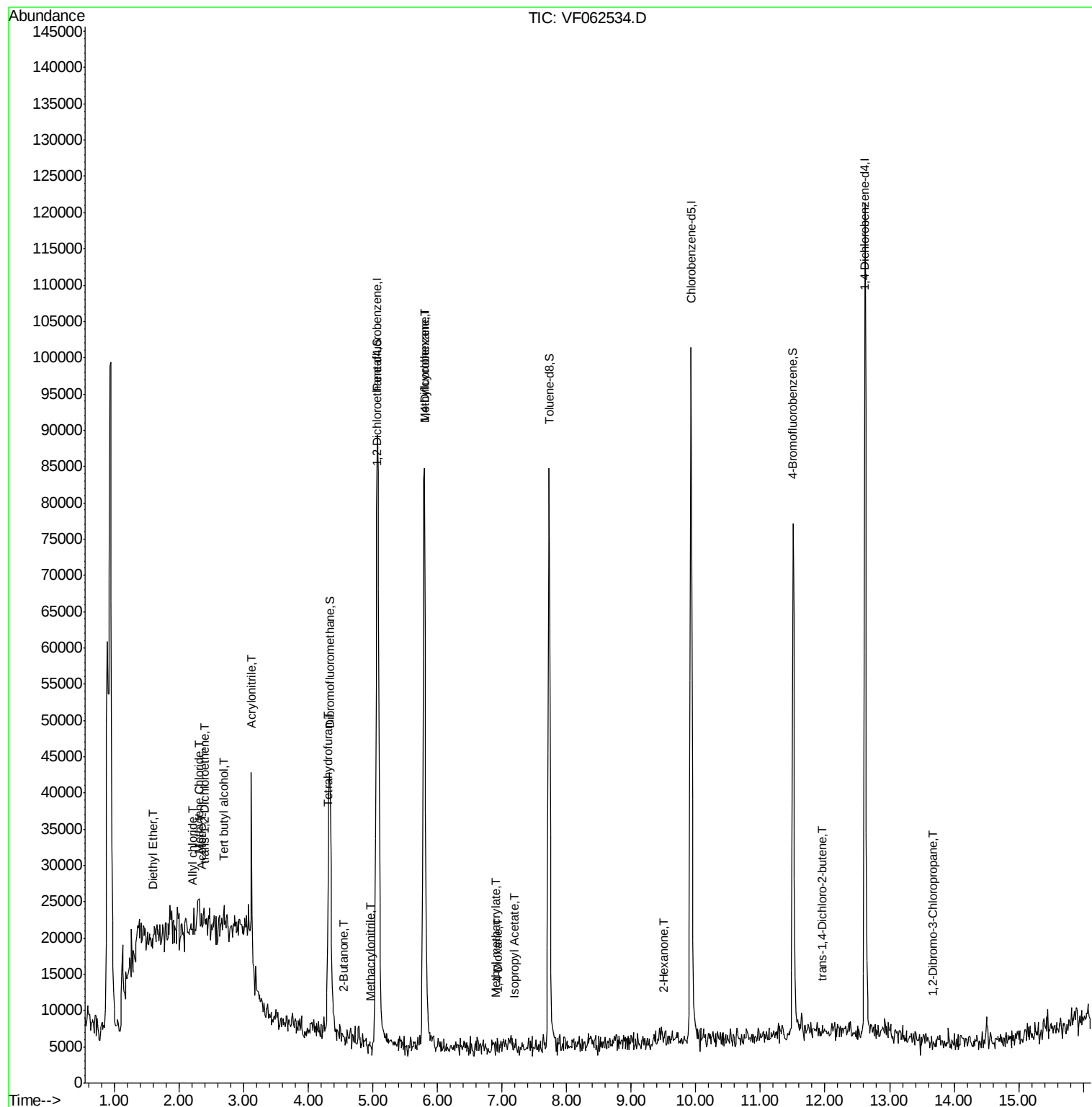
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.42	94	470	Below Cal	#	3
8) Diethyl Ether	1.59	74	399	2.245	ug/l	68
11) Tert butyl alcohol	2.70	59	1040	26.190	ug/l #	1
13) Acrolein	2.11	56	323	Below Cal	#	1
14) Allyl chloride	2.21	41	708	1.406	ug/l #	80
15) Acrylonitrile	3.12	53	568	7.551	ug/l #	51
16) Acetone	2.35	43	764	5.375	ug/l	93
18) Methyl Acetate	2.49	43	578	Below Cal	#	58
20) Methylene Chloride	2.31	84	1801	3.502	ug/l #	81
21) trans-1,2-Dichloroethene	2.39	96	547	1.007	ug/l #	45
25) 2-Butanone	4.55	43	740	4.144	ug/l #	60
29) Tetrahydrofuran	4.30	42	502	6.117	ug/l #	63
37) Ethyl Acetate	4.28	43	736	Below Cal	#	76
38) Carbon Tetrachloride	4.21	117	62	Below Cal	#	14
39) Methylcyclohexane	5.80	83	2151	2.801	ug/l #	23
41) Methacrylonitrile	4.97	41	438	2.386	ug/l #	26
43) Isopropyl Acetate	7.18	43	511	1.467	ug/l #	72
48) Methyl methacrylate	6.91	41	496	2.015	ug/l #	48
49) 1,4-Dioxane	6.94	88	65	12.779	ug/l #	16
59) 2-Hexanone	9.50	43	509	2.789	ug/l	69
81) trans-1,4-Dichloro-2-buten	11.96	75	93	1.067	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	13.68	75	69	1.013	ug/l #	1

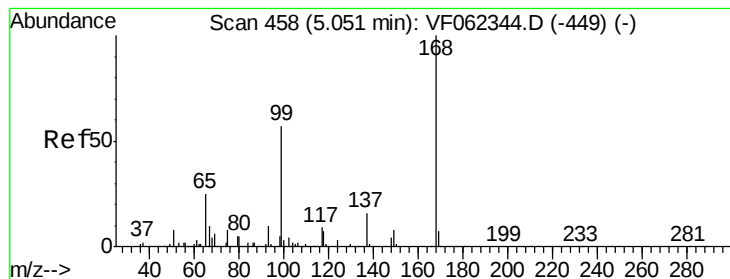
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF051219\
Data File : VF062534.D
Acq On : 13 May 2019 7:07
Operator : FY/SY
Sample : K2734-15RE
Misc : 5.20g/5mL/MSVOA F/SOIL
ALS Vial : 45 Sample Multiplier: 1

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

Quant Time: May 13 07:33:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

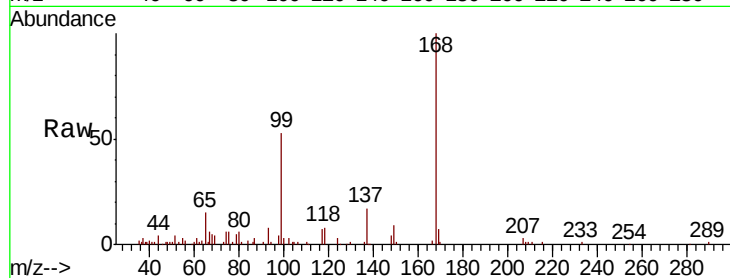
P026-SS013-1824-01RE

Tot Ion:168 Resp: 74348

Ion Ratio Lower Upper

168 100

99 52.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.08

25000

20000

15000

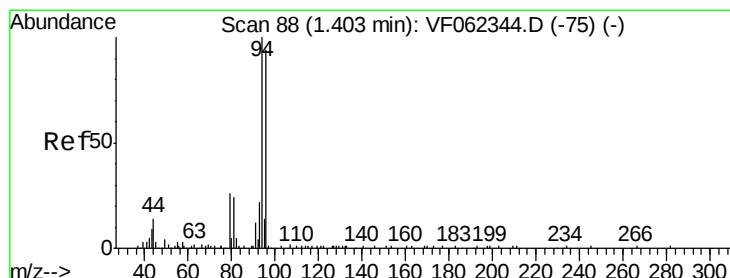
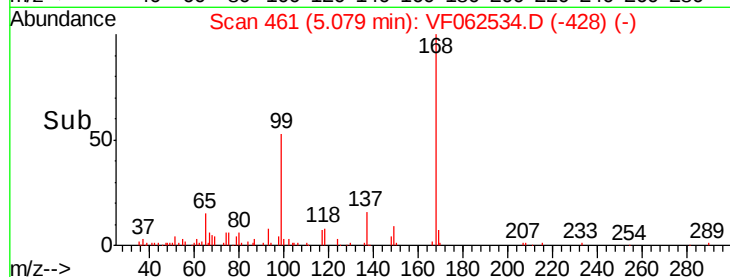
10000

5000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.02 min

Lab File: VF062534.D

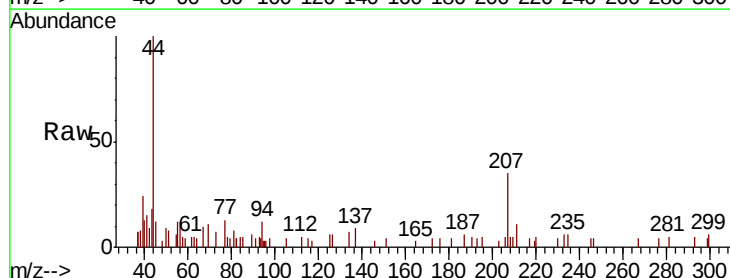
Acq: 13 May 2019 7:07

Tgt Ion: 94 Resp: 470

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

1.42

400

300

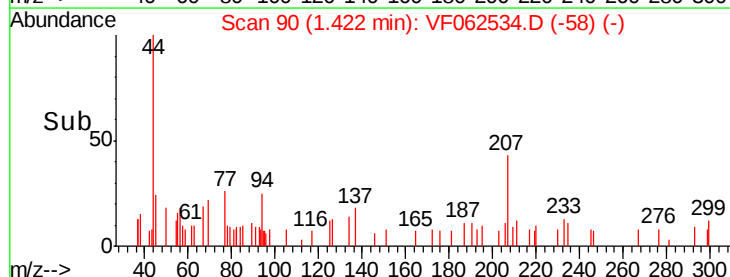
200

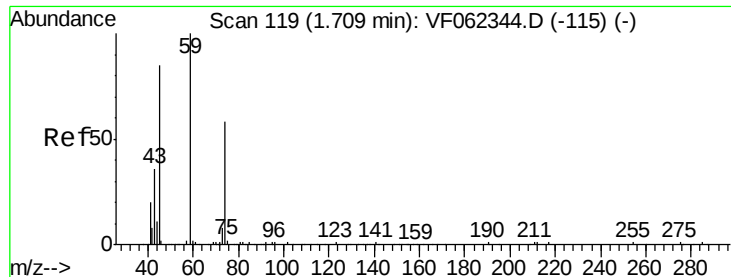
100

0

Time-->

1.40 1.45





#8

Diethyl Ether

Concen: 2.245 ug/l

RT: 1.59 min Scan# 107

Delta R.T. -0.12 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

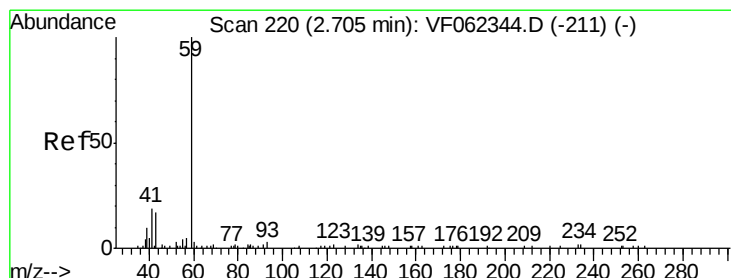
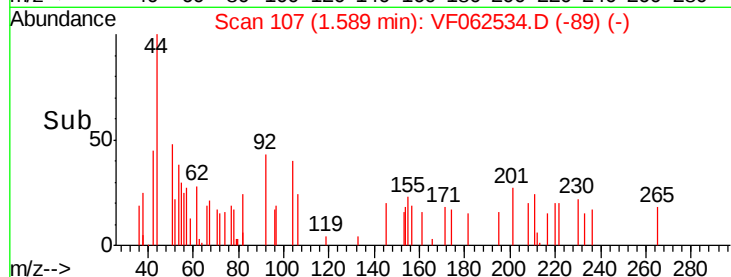
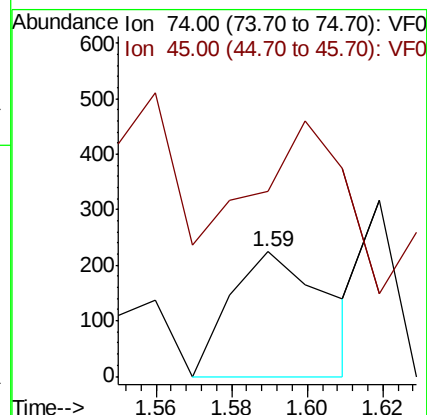
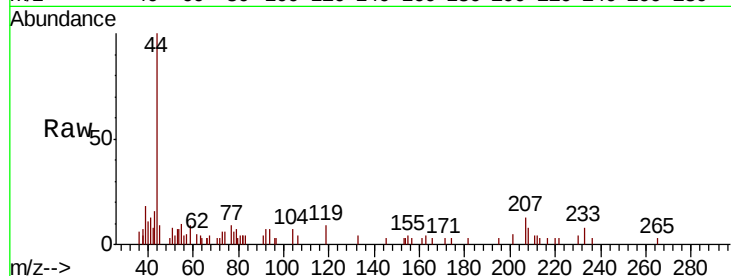
P026-SS013-1824-01RE

Tot Ion: 74 Resp: 399

Ion Ratio Lower Upper

74 100

45 107.3 73.9 221.6



#11

Tert butyl alcohol

Concen: 26.190 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF062534.D

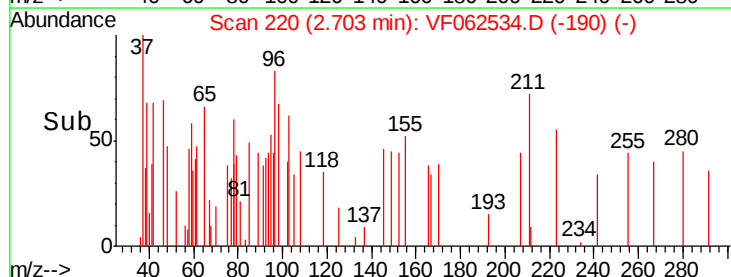
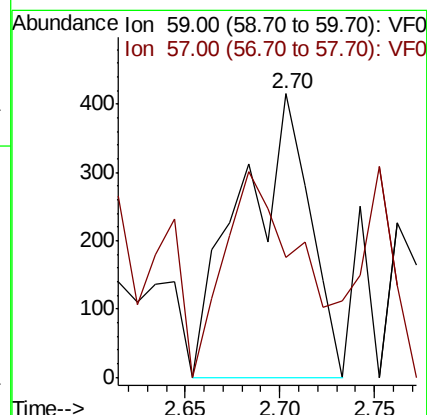
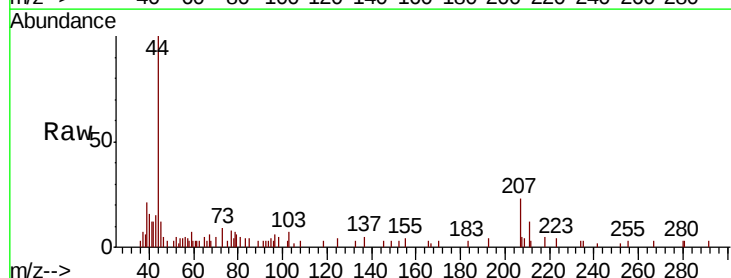
Acq: 13 May 2019 7:07

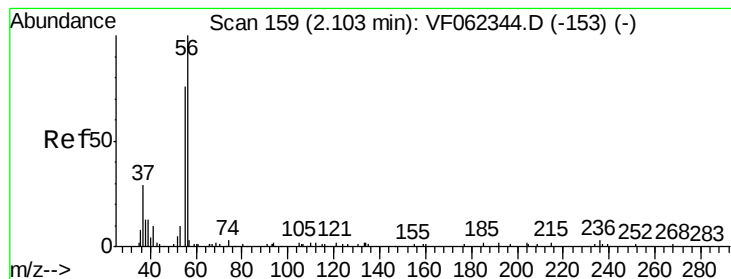
Tgt Ion: 59 Resp: 1040

Ion Ratio Lower Upper

59 100

57 76.6 9.3 13.9#





#13

Acrolein

Concen: Below Cal

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

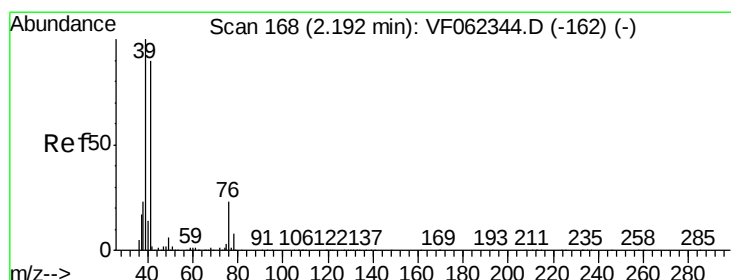
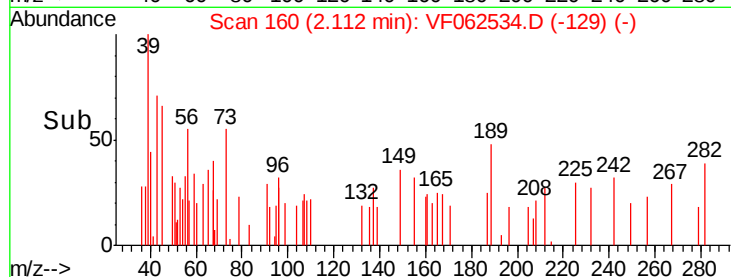
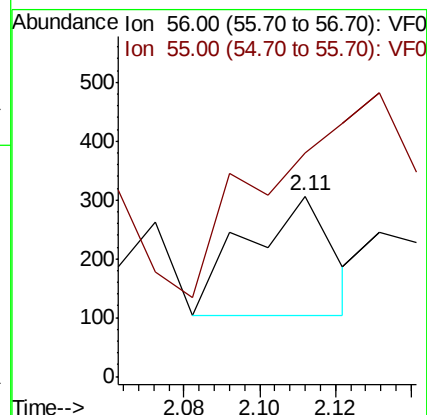
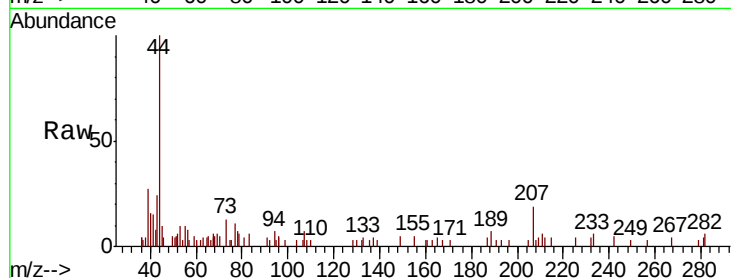
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1824-01RE

Tot Ion: 56 Resp: 323

Ion Ratio Lower Upper

56 100

55 444.0 58.4 87.6#



#14

Allyl chloride

Concen: 1.406 ug/l

RT: 2.21 min Scan# 170

Delta R.T. 0.02 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

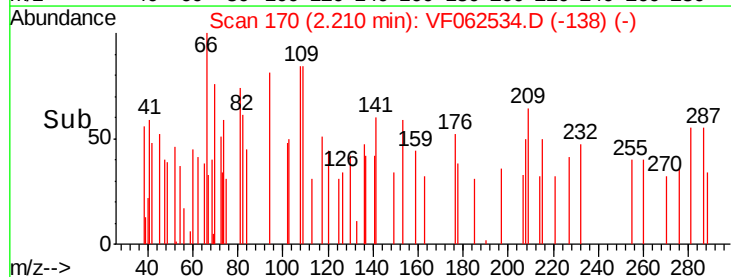
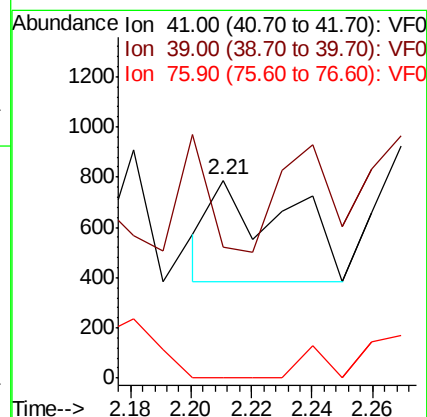
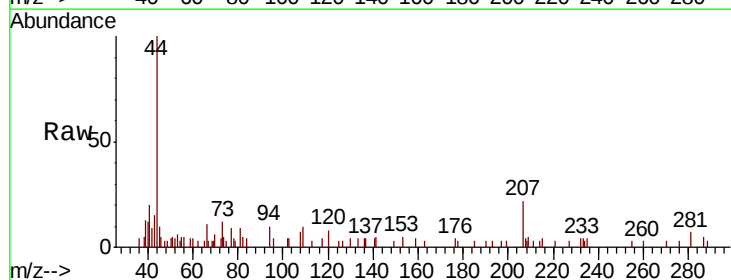
Tgt Ion: 41 Resp: 708

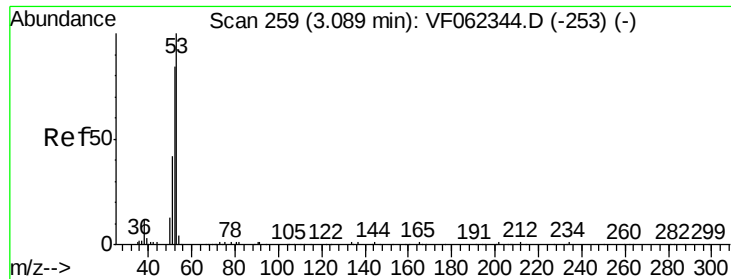
Ion Ratio Lower Upper

41 100

39 100.1 90.8 136.2

76 0.0 22.2 33.4#





#15

Acrylonitrile

Concen: 7.551 ug/l

RT: 3.12 min Scan# 262

Delta R.T. 0.03 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1824-01RE

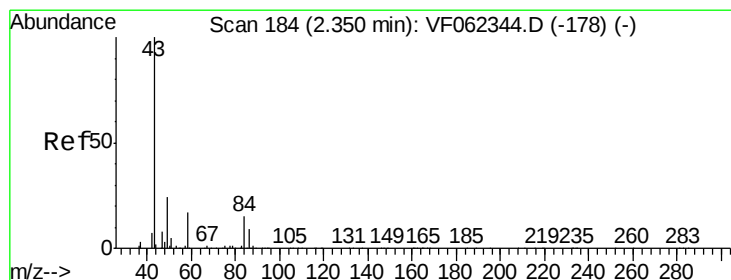
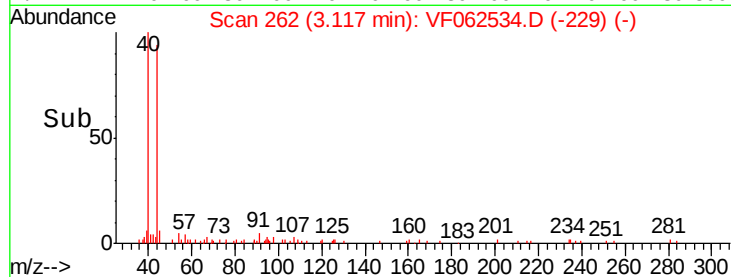
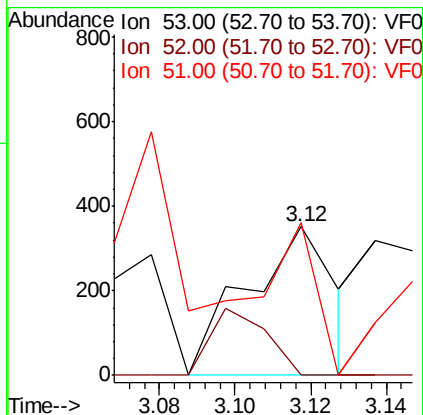
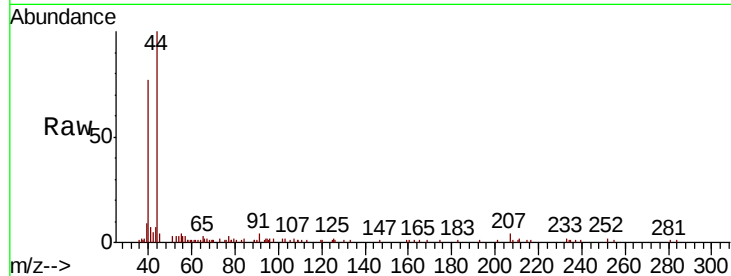
Tot Ion: 53 Resp: 568

Ion Ratio Lower Upper

53 100

52 28.0 77.2 115.8#

51 57.0 40.6 61.0



#16

Acetone

Concen: 5.375 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062534.D

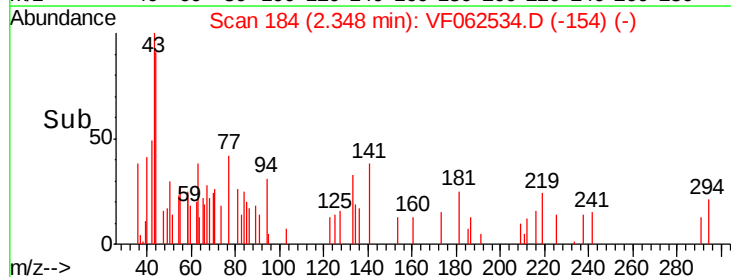
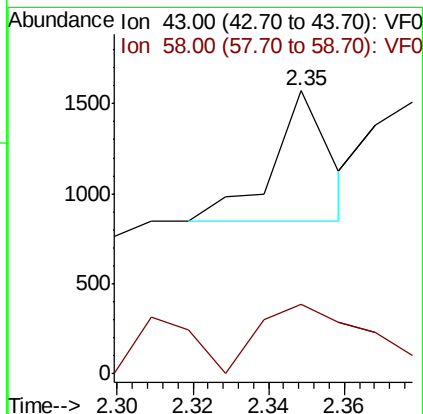
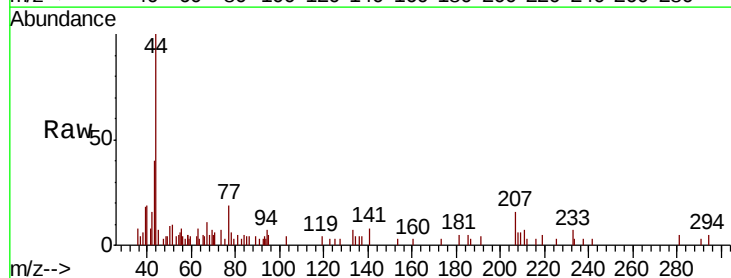
Acq: 13 May 2019 7:07

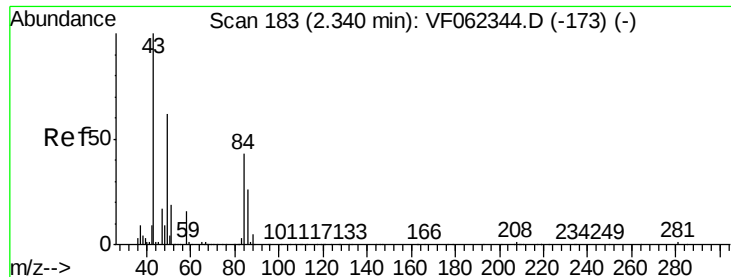
Tgt Ion: 43 Resp: 764

Ion Ratio Lower Upper

43 100

58 19.3 13.1 19.7

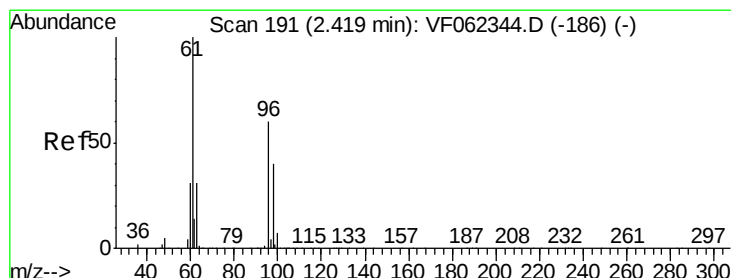
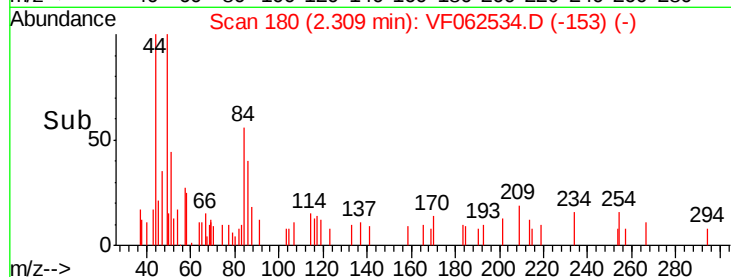
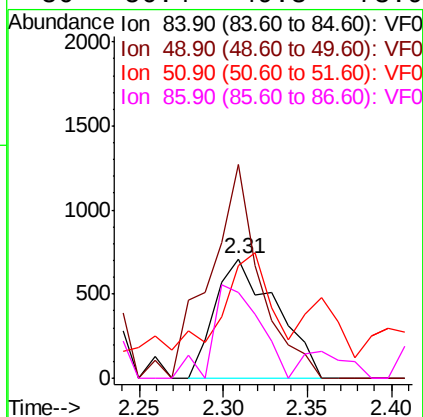
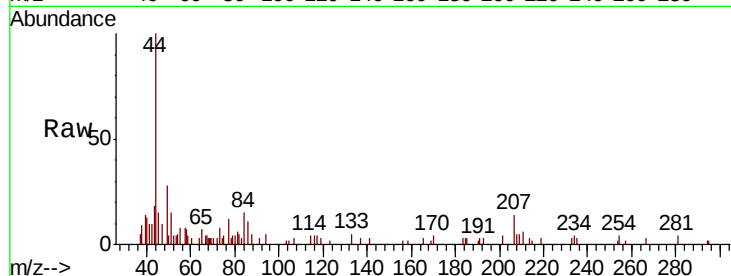




#20
Methvlene Chloride
Concen: 3.502 ug/l
RT: 2.31 min Scan# 180
Delta R.T. -0.03 min
Lab File: VF062534.D
Acq: 13 May 2019 7:07

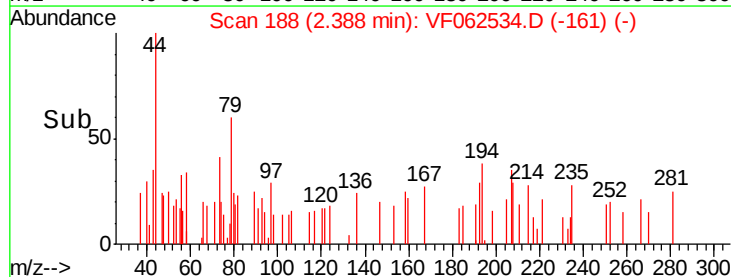
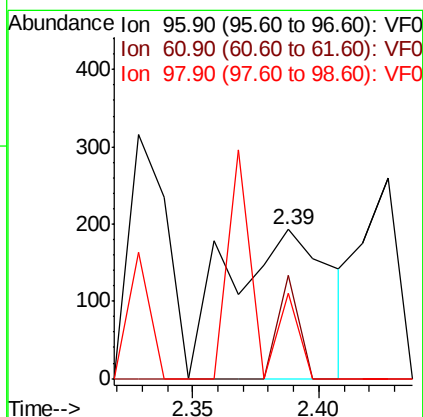
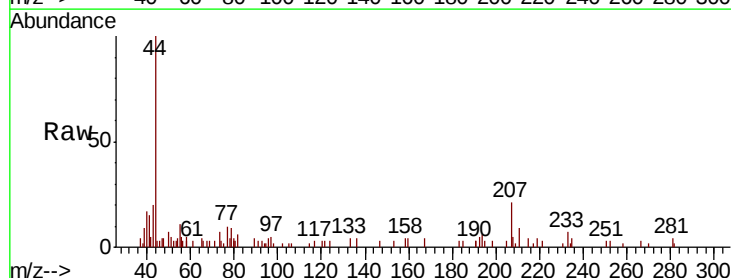
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1824-01RE

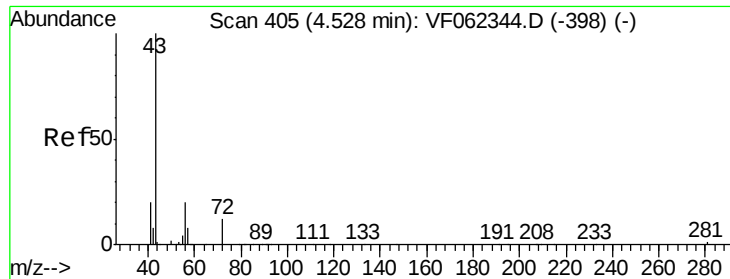
Tot Ion: 84 Resp: 1801
Ion Ratio Lower Upper
84 100
49 179.1 117.5 176.3#
51 54.0 37.0 55.4
86 56.4 49.3 73.9



#21
trans-1,2-Dichloroethene
Concen: 1.007 ug/l
RT: 2.39 min Scan# 188
Delta R.T. -0.03 min
Lab File: VF062534.D
Acq: 13 May 2019 7:07

Tgt Ion: 96 Resp: 547
Ion Ratio Lower Upper
96 100
61 68.9 133.2 199.8#
98 57.0 53.1 79.7





#25

2-Butanone

Concen: 4.144 ug/l

RT: 4.55 min Scan# 407

Delta R.T. 0.02 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

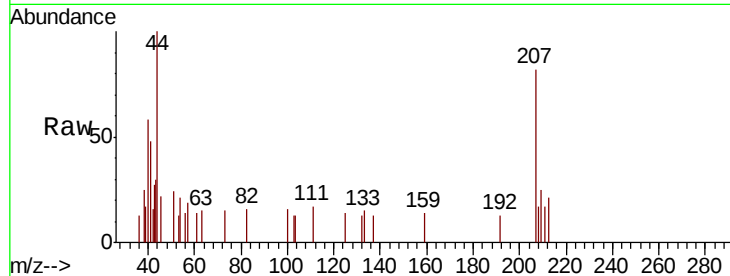
P026-SS013-1824-01RE

Tot Ion: 43 Resp: 740

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.55

400

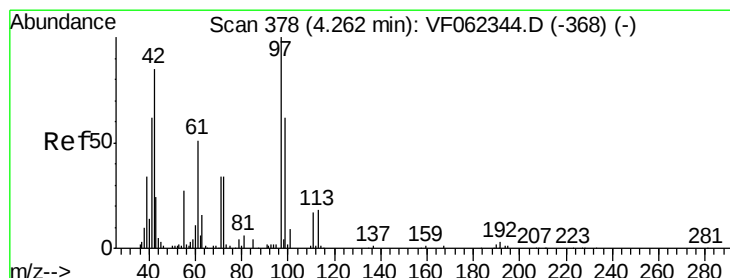
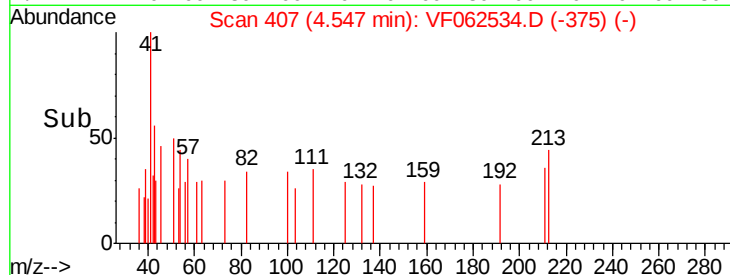
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 6.117 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.04 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

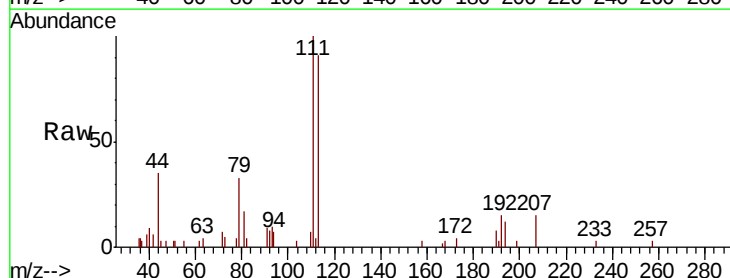
Tgt Ion: 42 Resp: 502

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 33.1 31.7 47.5



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

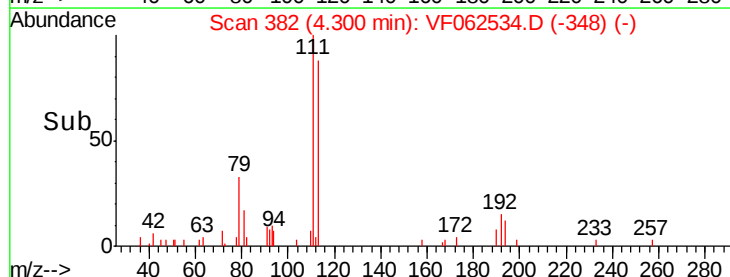
300

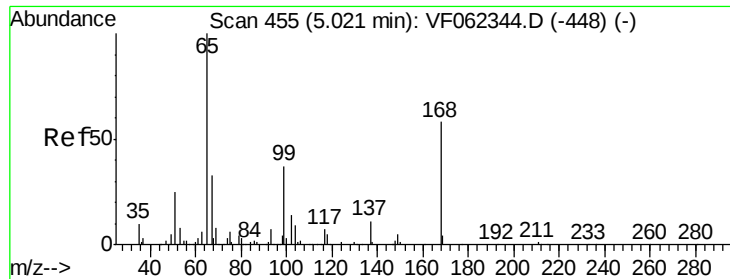
200

100

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 37.707 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

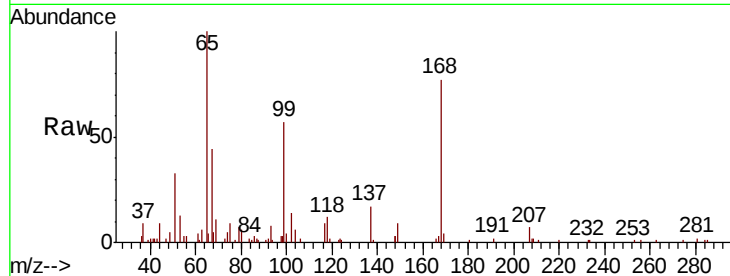
P026-SS013-1824-01RE

Tot Ion: 65 Resp: 26494

Ion Ratio Lower Upper

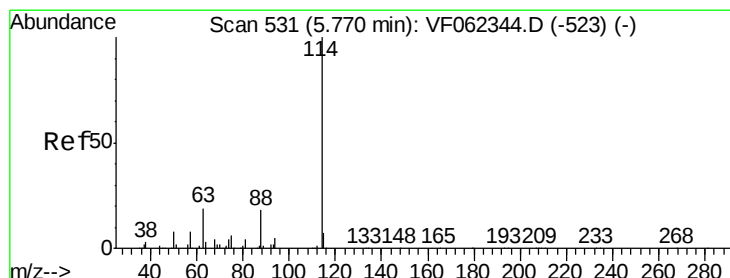
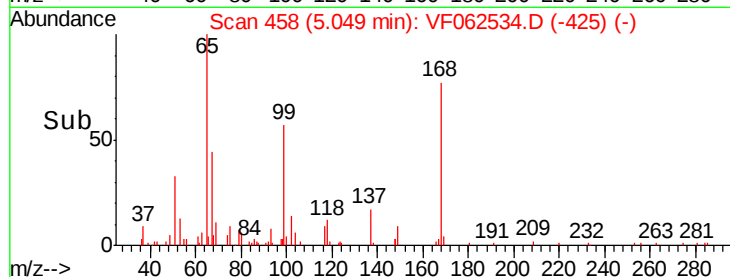
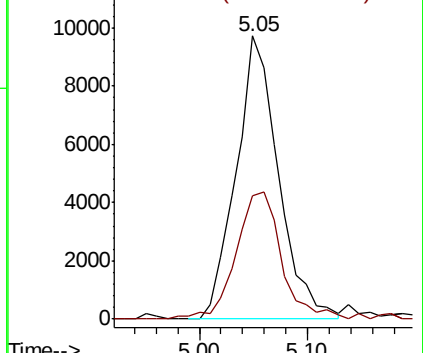
65 100

67 48.2 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.02 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

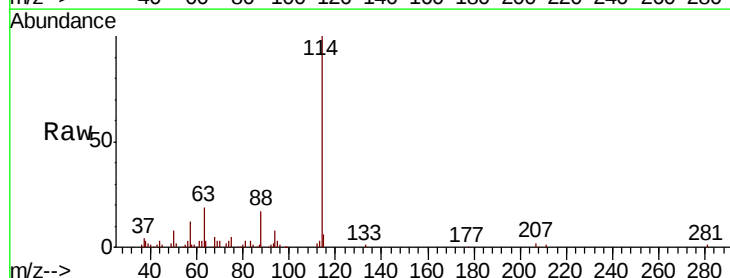
Tgt Ion:114 Resp: 89131

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.4

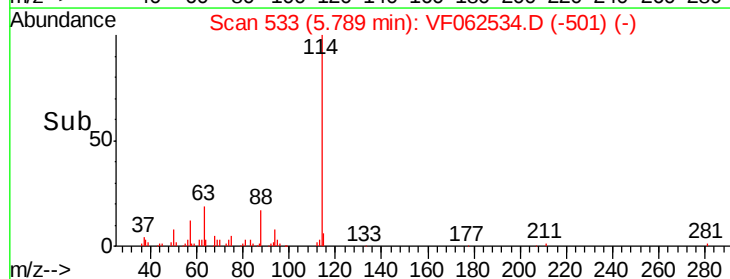
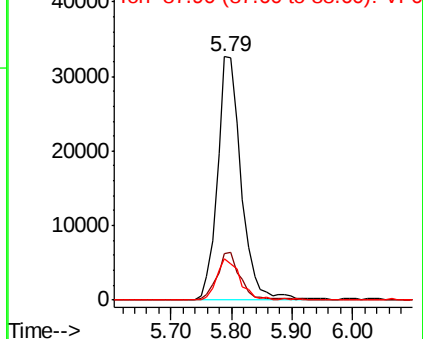
88 17.0 0.0 36.4

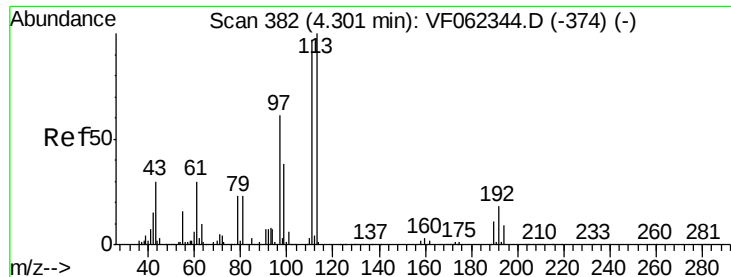


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

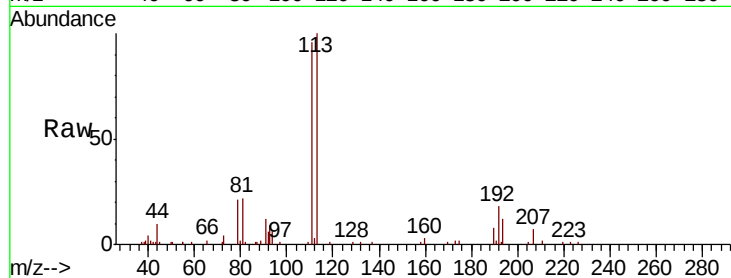




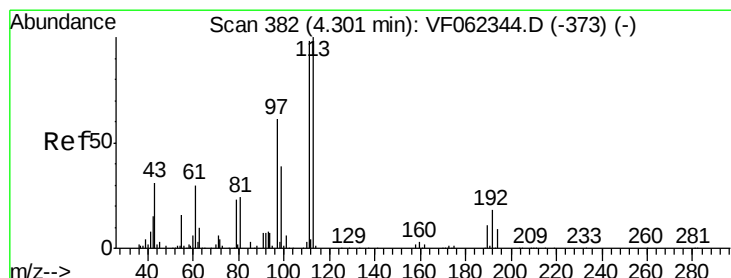
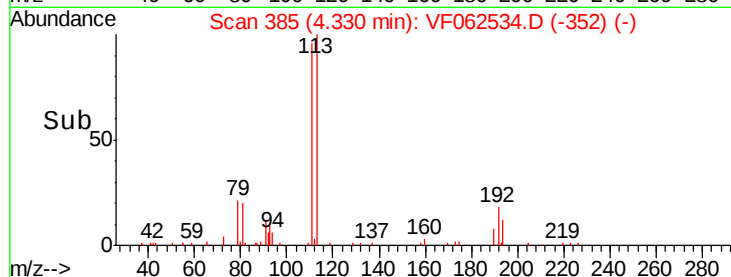
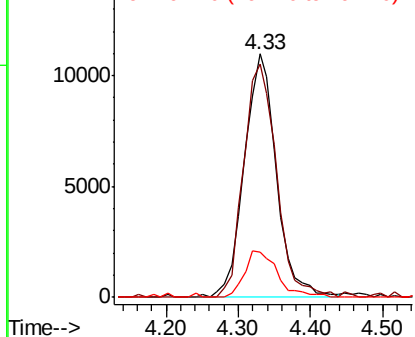
#35
Dibromofluoromethane
Concen: 48.115 ug/l
RT: 4.33 min Scan# 385
Delta R.T. 0.03 min
Lab File: VF062534.D
Acq: 13 May 2019 7:07

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

Tot Ion:113 Resp: 34166
Ion Ratio Lower Upper
113 100
111 98.3 79.4 119.0
192 19.7 16.0 24.0

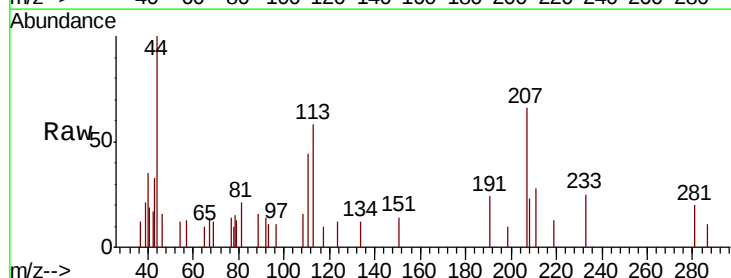


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

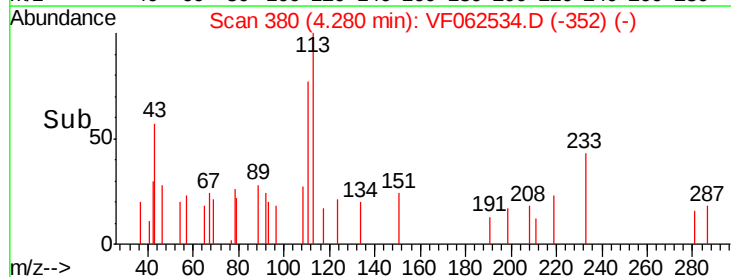
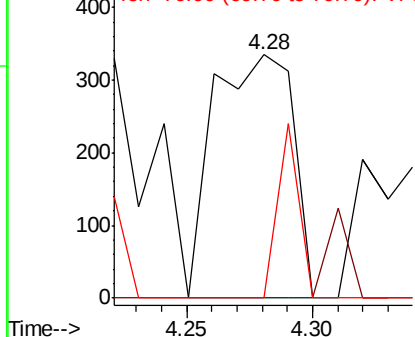


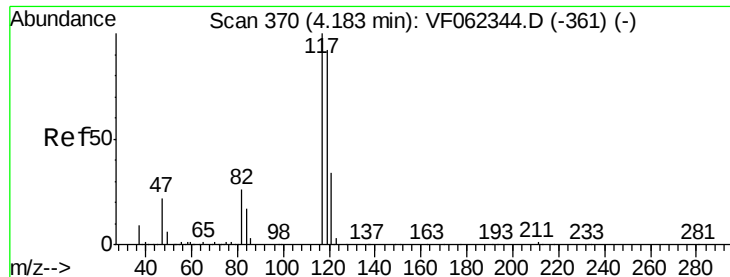
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 380
Delta R.T. -0.02 min
Lab File: VF062534.D
Acq: 13 May 2019 7:07

Tgt Ion: 43 Resp: 736
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 19.3 8.2 12.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.21 min Scan# 373

Delta R.T. 0.03 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1824-01RE

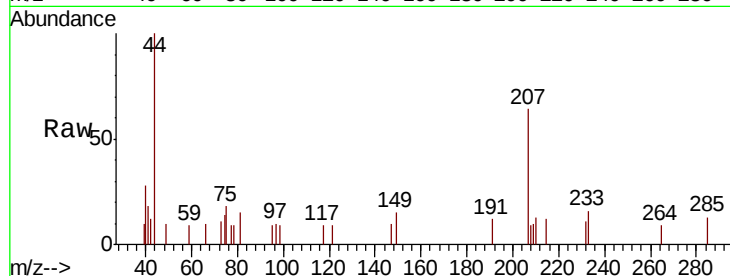
Tot Ion:117 Resp: 62

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

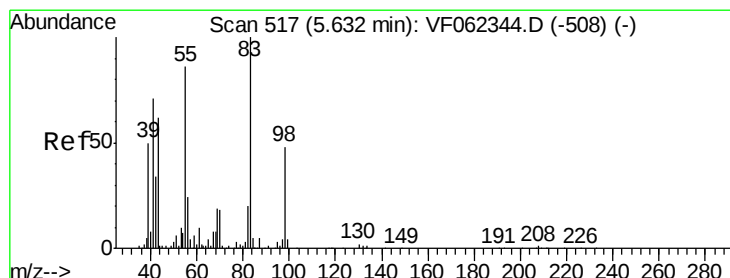
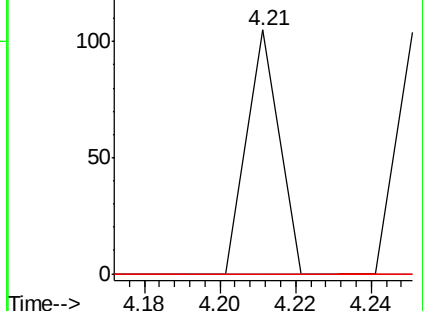
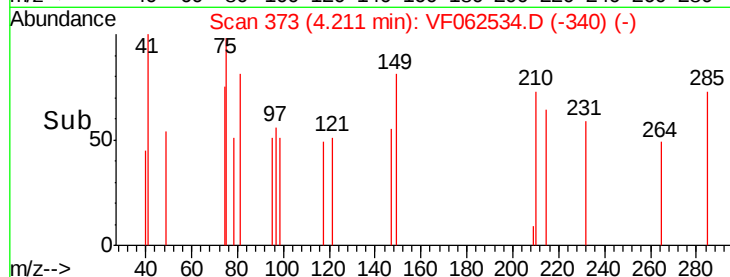
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 2.801 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.17 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

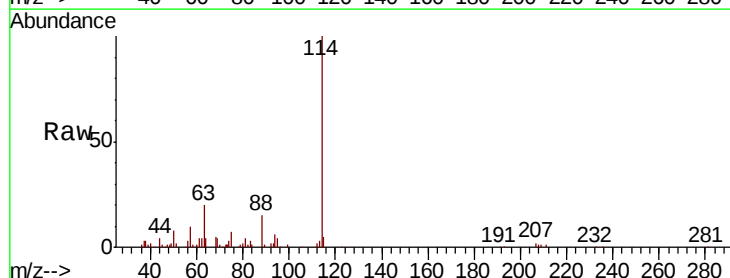
Tgt Ion: 83 Resp: 2151

Ion Ratio Lower Upper

83 100

55 12.9 69.0 103.6#

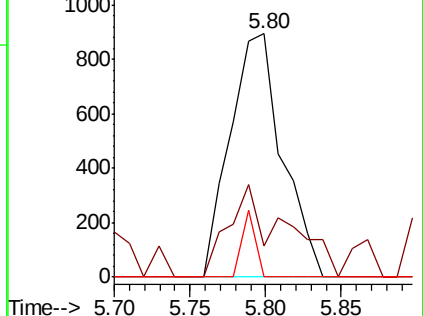
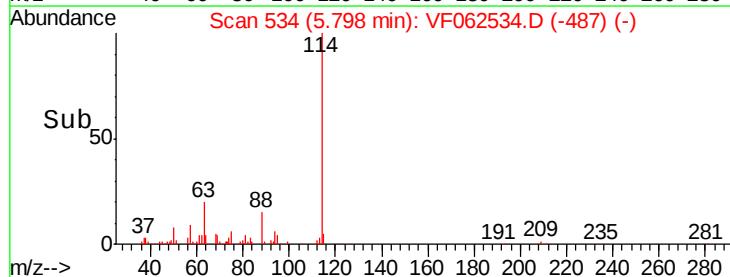
98 0.0 38.6 58.0#

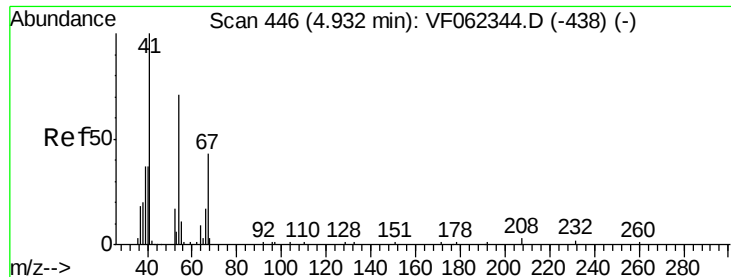


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 2.386 ug/l

RT: 4.97 min Scan# 450

Delta R.T. 0.04 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1824-01RE

Tot Ion: 41 Resp: 438

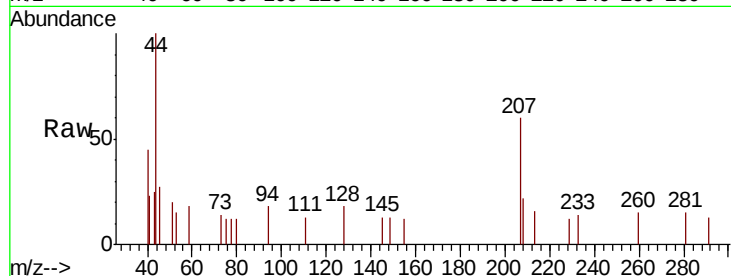
Ion Ratio Lower Upper

41 100

39 0.0 54.3 81.5#

67 0.0 37.8 56.8#

52 17.1 58.2 87.4#

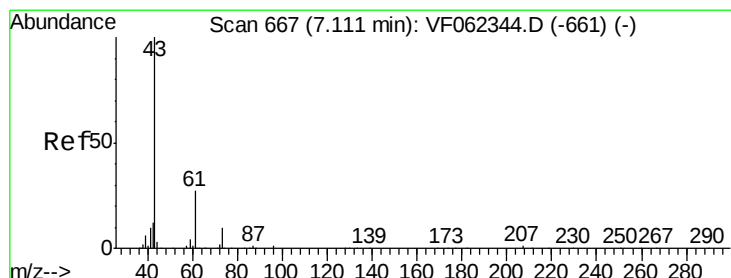
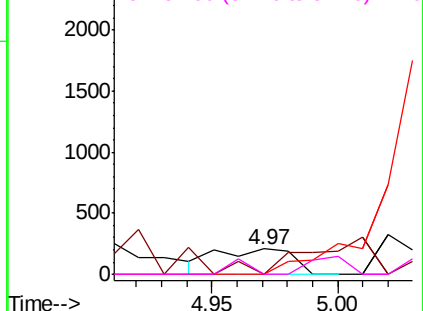
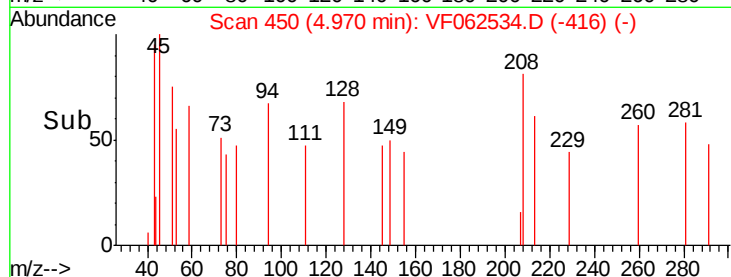


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 1.467 ug/l

RT: 7.18 min Scan# 674

Delta R.T. 0.07 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

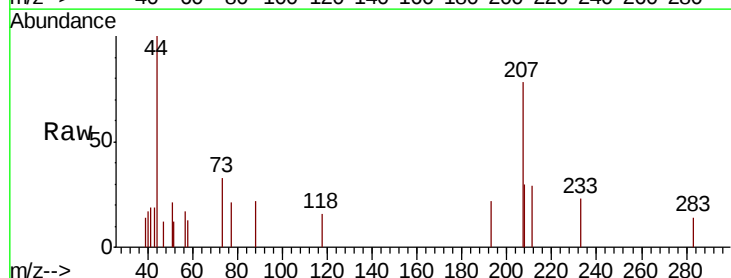
Tgt Ion: 43 Resp: 511

Ion Ratio Lower Upper

43 100

61 13.3 22.8 34.2#

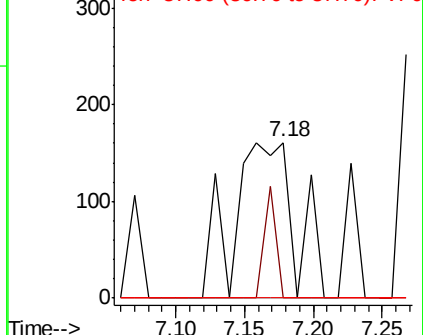
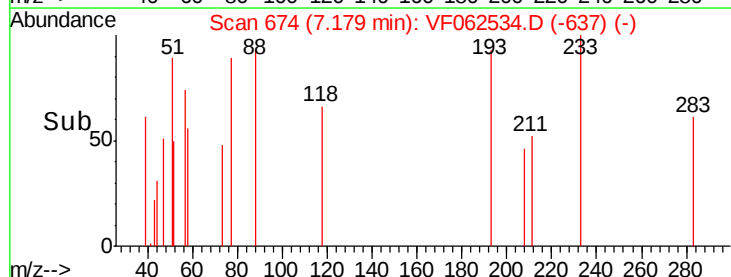
87 0.0 0.6 1.0#

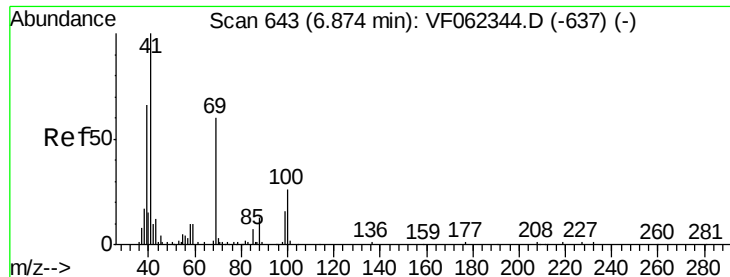


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

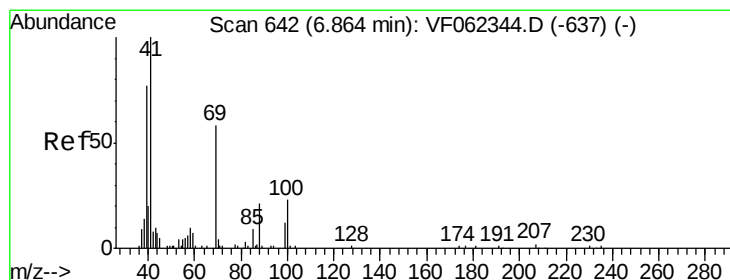
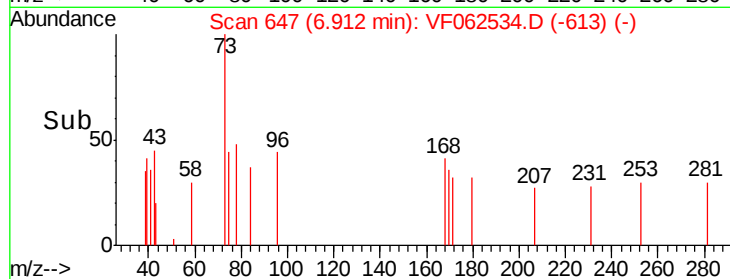
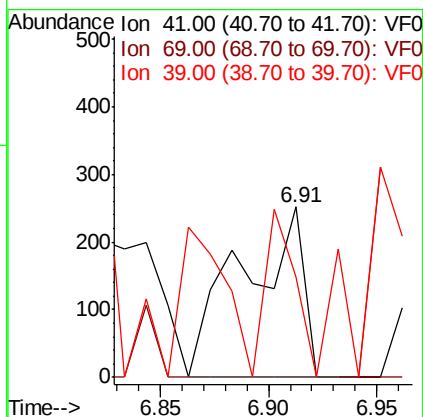
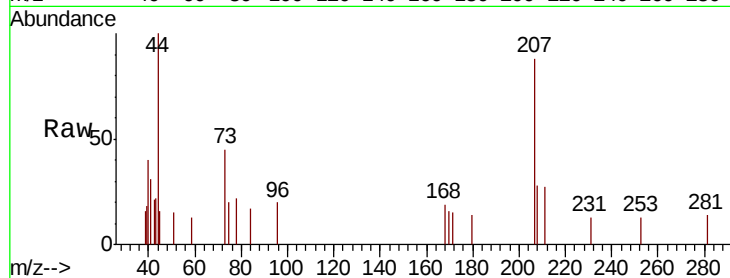




#48
Methvl methacrlyate
Concen: 2.015 ug/l
RT: 6.91 min Scan# 647
Delta R.T. 0.04 min
Lab File: VF062534.D
Acq: 13 May 2019 7:07

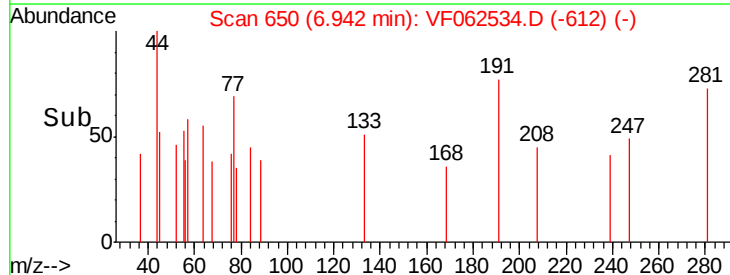
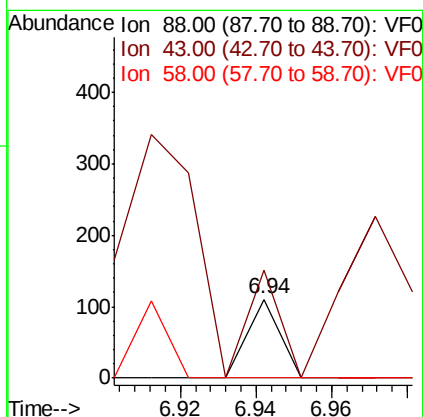
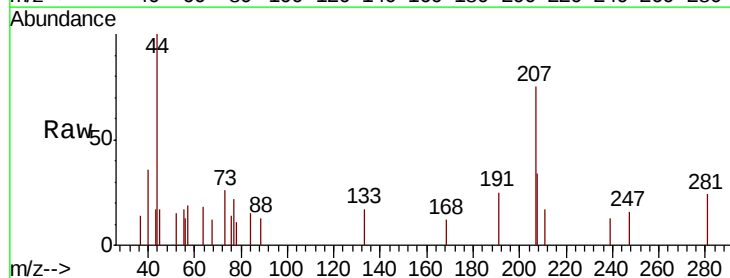
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1824-01RE

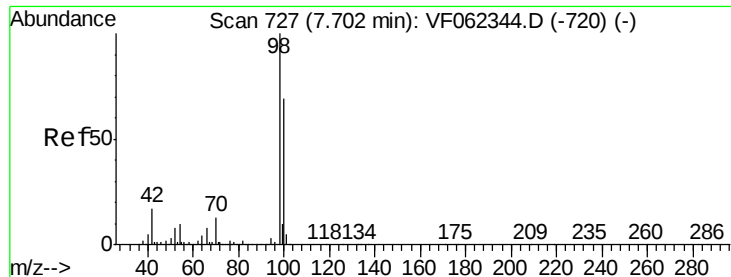
Tot Ion: 41 Resp: 496
Ion Ratio Lower Upper
41 100
69 0.0 48.6 72.8#
39 47.4 56.1 84.1#



#49
1,4-Dioxane
Concen: 12.779 ug/l
RT: 6.94 min Scan# 650
Delta R.T. 0.08 min
Lab File: VF062534.D
Acq: 13 May 2019 7:07

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 0.0 55.6 83.4#
58 0.0 52.8 79.2#

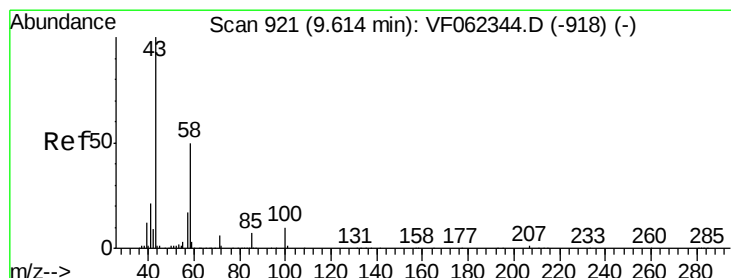
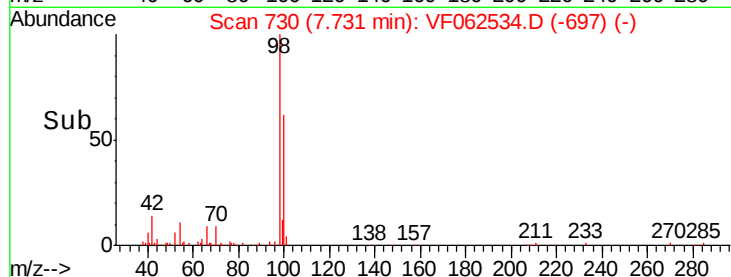
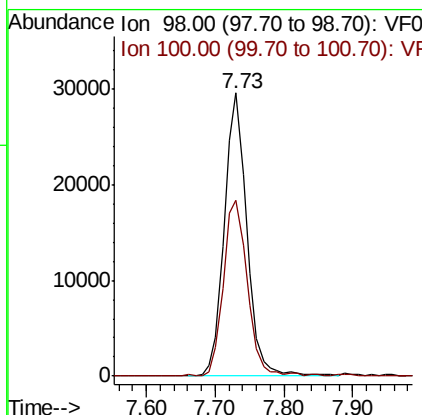
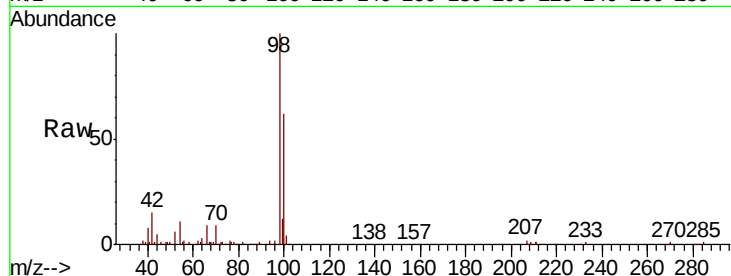




#50
Toluene-d8
Concen: 39.209 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.03 min
Lab File: VF062534.D
Acq: 13 May 2019 7:07

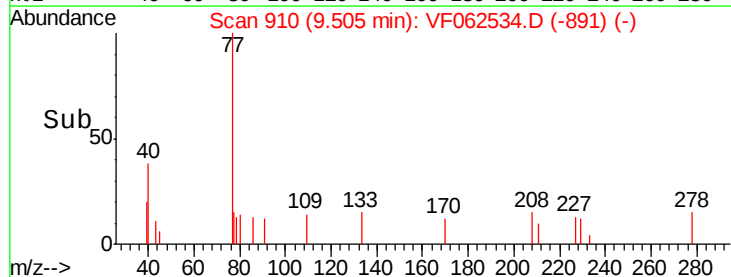
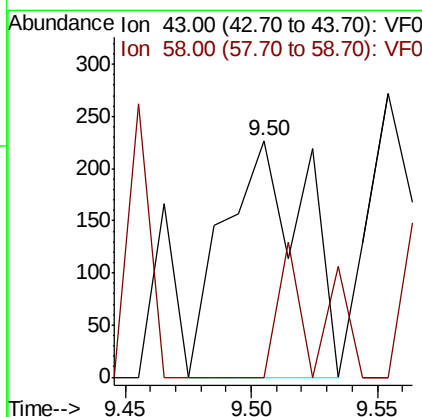
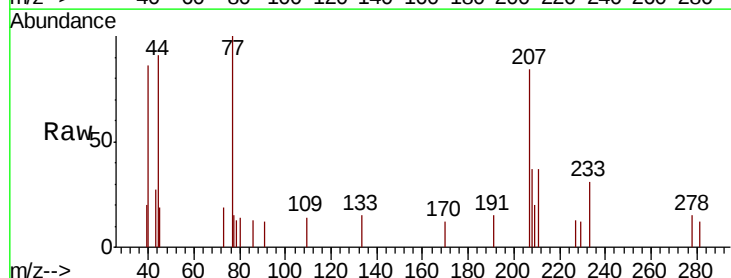
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1824-01RE

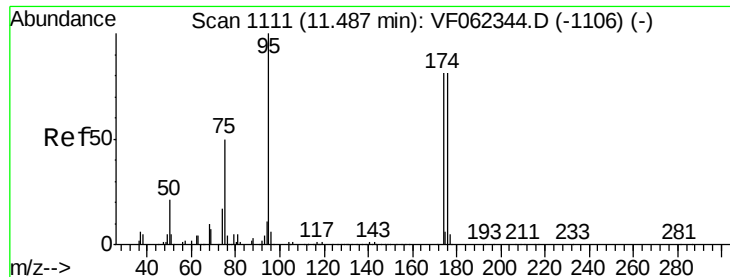
Tot Ion: 98 Resp: 67396
Ion Ratio Lower Upper
98 100
100 65.9 53.3 79.9



#59
2-Hexanone
Concen: 2.789 ug/l
RT: 9.50 min Scan# 910
Delta R.T. -0.11 min
Lab File: VF062534.D
Acq: 13 May 2019 7:07

Tgt Ion: 43 Resp: 509
Ion Ratio Lower Upper
43 100
58 27.3 24.3 73.0





#62

4-Bromofluorobenzene

Concen: 32.355 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1824-01RE

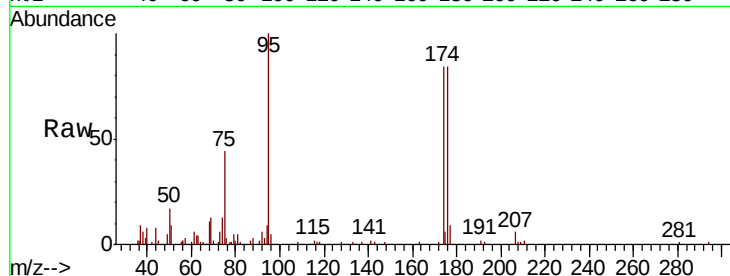
Tot Ion: 95 Resp: 25091

Ion Ratio Lower Upper

95 100

174 91.0 0.0 191.8

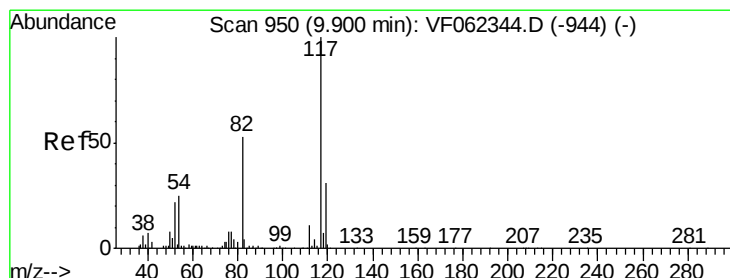
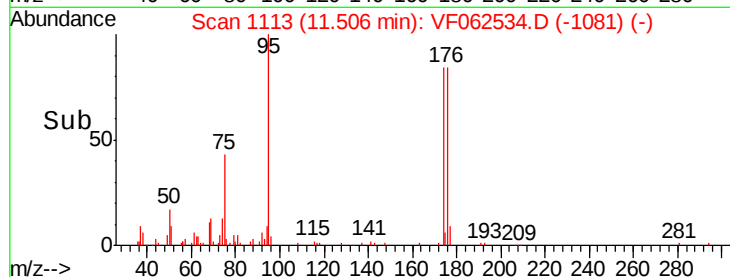
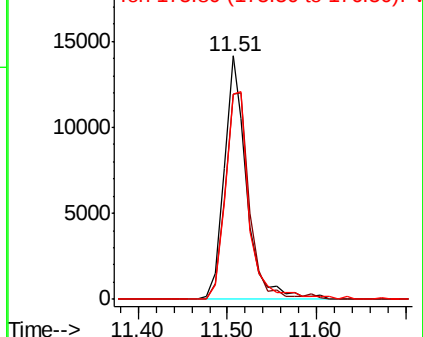
176 91.1 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): VF0

Ion 175.80 (175.50 to 176.50): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.03 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

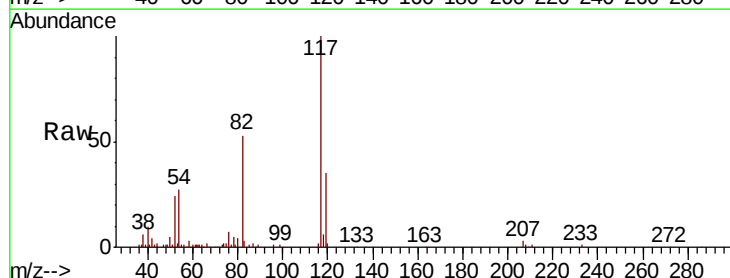
Tgt Ion: 117 Resp: 72457

Ion Ratio Lower Upper

117 100

82 53.4 42.2 63.2

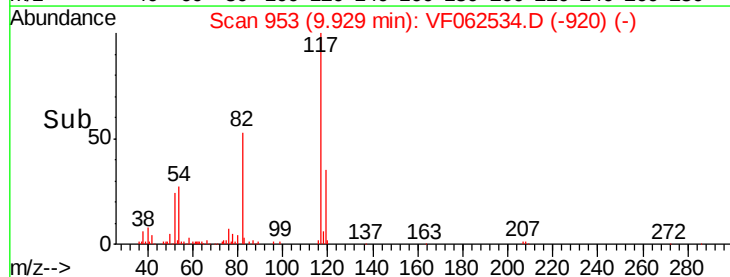
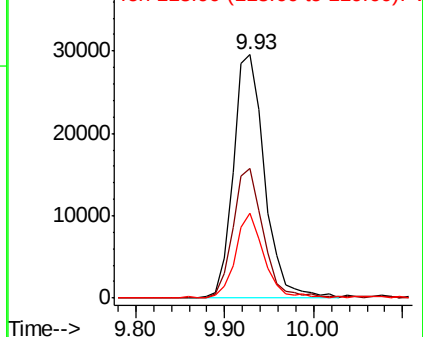
119 34.3 25.0 37.4

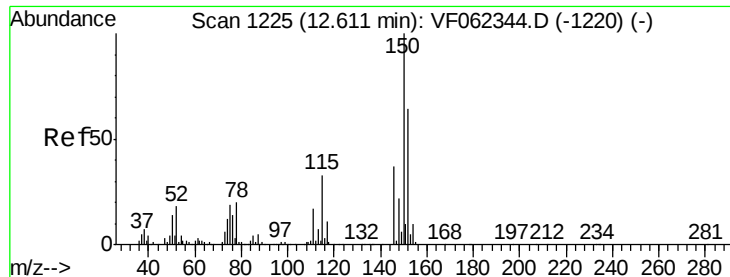


Abundance Ion 116.90 (116.60 to 117.60): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1824-01RE

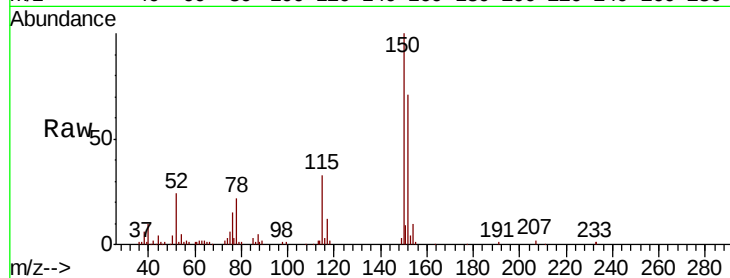
Tot Ion:152 Resp: 32746

Ion Ratio Lower Upper

152 100

115 48.9 26.4 79.2

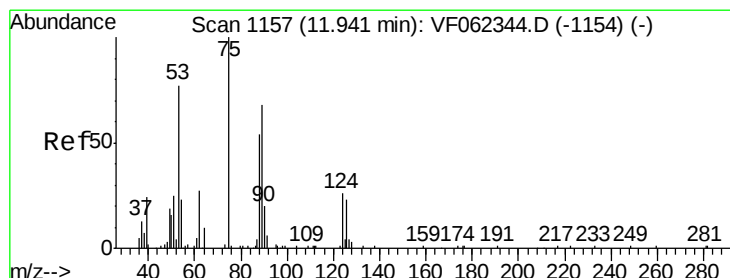
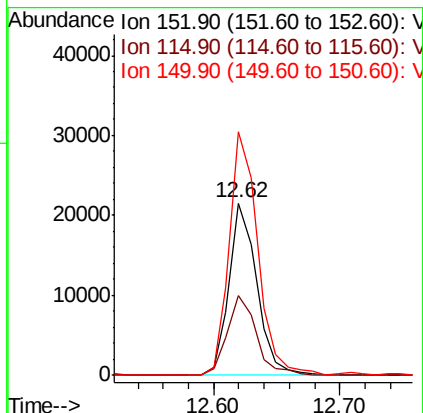
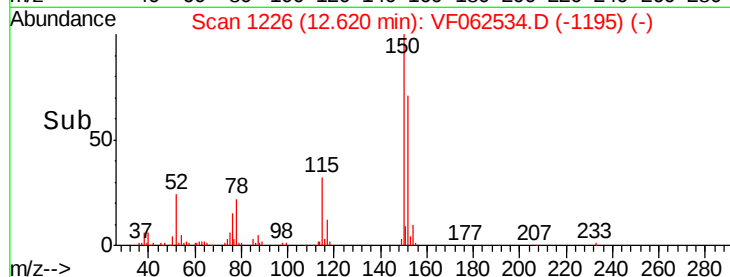
150 146.0 0.0 335.0



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



#81

trans-1,4-Dichloro-2-butene

Concen: 1.067 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. 0.02 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

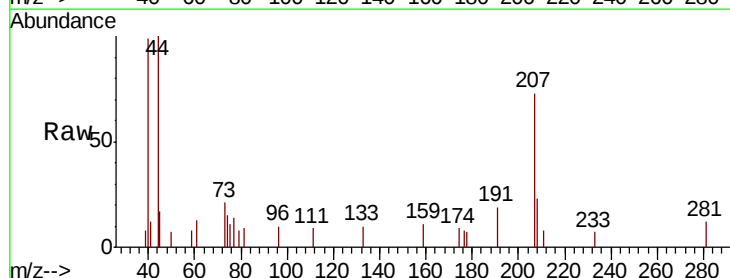
Tgt Ion: 75 Resp: 93

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

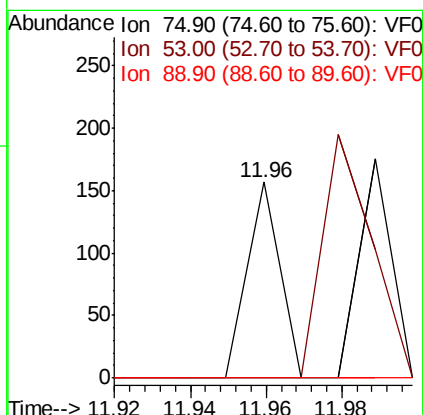
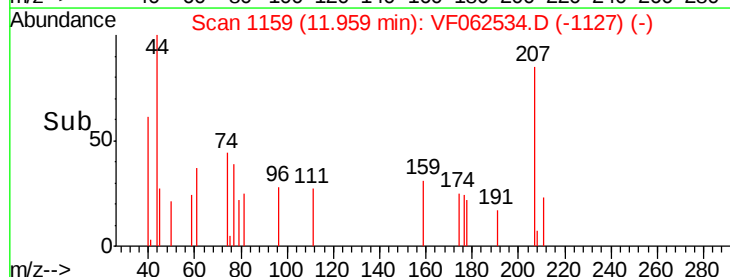
89 0.0 0.0 0.0

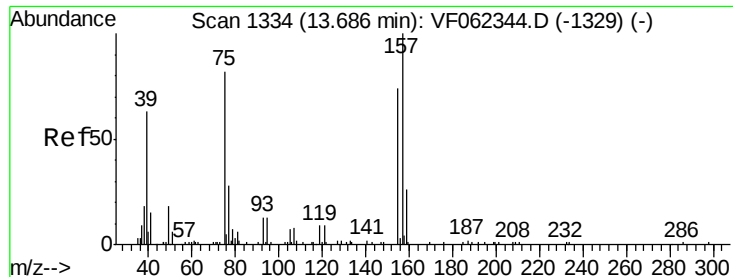


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.013 ug/l

RT: 13.68 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VF062534.D

Acq: 13 May 2019 7:07

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1824-01RE

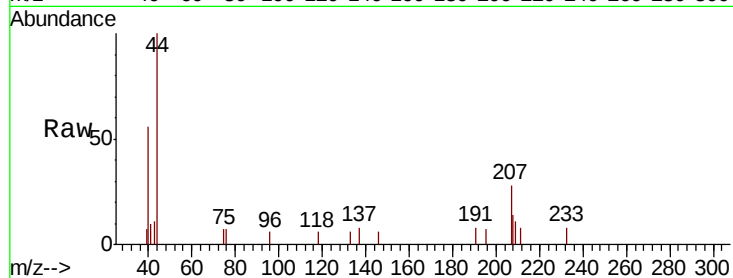
Tot Ion: 75 Resp: 69

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

