

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051219\
 Data File : VF062537.D
 Acq On : 13 May 2019 8:31
 Operator : FY/SY
 Sample : K2734-18
 Misc : 5.64g/5mL/MSVOA_F/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS014-0612-01

Quant Time: May 13 11:03:22 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	290324	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	404773	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	333050	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	171592	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	114995	41.91	ug/l	0.03
Spiked Amount 50.000			Recovery	=	83.82%	
35) Dibromofluoromethane	4.33	113	146245	45.35	ug/l	0.03
Spiked Amount 50.000			Recovery	=	90.70%	
50) Toluene-d8	7.73	98	292557	37.48	ug/l	0.03
Spiked Amount 50.000			Recovery	=	74.96%	
62) 4-Bromofluorobenzene	11.51	95	123018	34.93	ug/l	0.02
Spiked Amount 50.000			Recovery	=	69.86%	

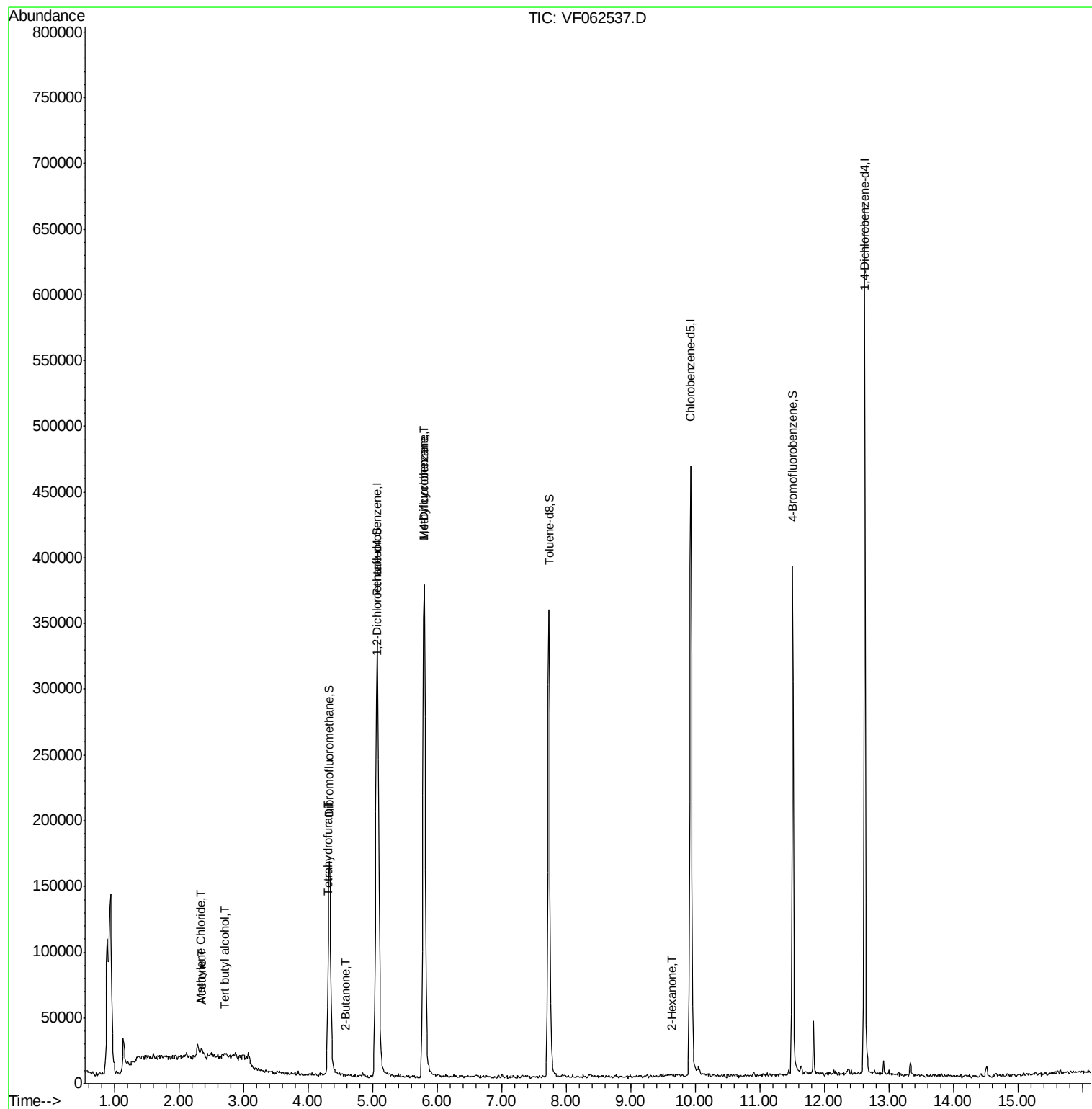
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.42	94	907	Below Cal	#	3
11) Tert butyl alcohol	2.69	59	538	3.470	ug/l #	70
13) Acrolein	2.11	56	1305	Below Cal	#	38
16) Acetone	2.36	43	5719	10.304	ug/l #	87
18) Methyl Acetate	2.48	43	701	Below Cal	#	58
20) Methylene Chloride	2.35	84	2541	1.265	ug/l #	67
25) 2-Butanone	4.59	43	825	1.183	ug/l #	60
29) Tetrahydrofuran	4.30	42	325	1.014	ug/l #	36
37) Ethyl Acetate	4.29	43	183	Below Cal	#	73
38) Carbon Tetrachloride	4.20	117	121	Below Cal	#	14
39) Methylcyclohexane	5.80	83	7399	2.122	ug/l #	44
49) 1,4-Dioxane	6.93	88	67	Below Cal	#	1
59) 2-Hexanone	9.64	43	1031	1.244	ug/l #	56

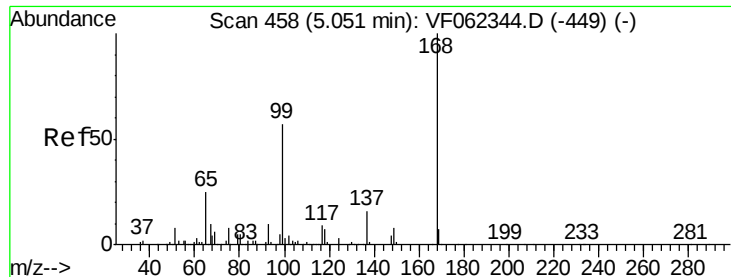
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

Instrument :

MSVOA_F

ClientSampleId :

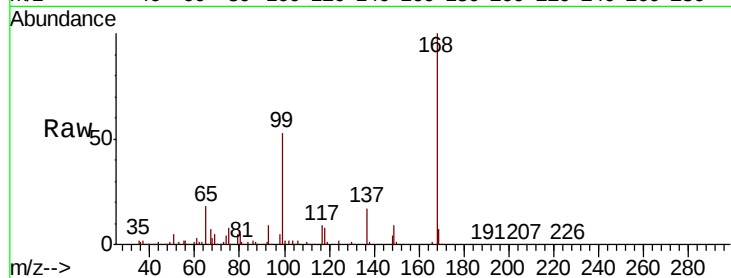
P026-SS014-0612-01

Tgt Ion:168 Resp: 290324

Ion Ratio Lower Upper

168 100

99 53.0 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

100000

80000

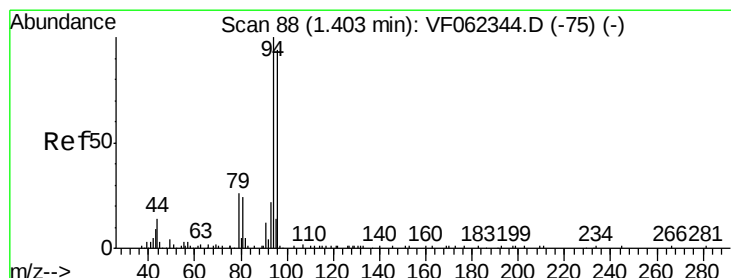
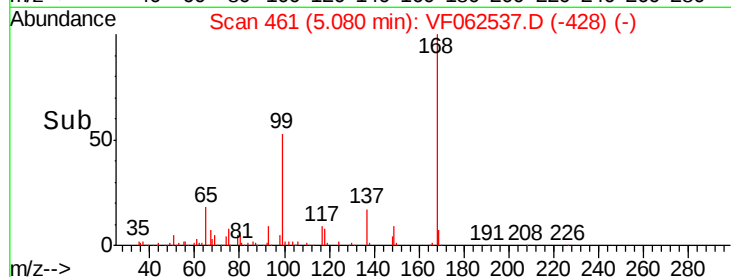
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.02 min

Lab File: VF062537.D

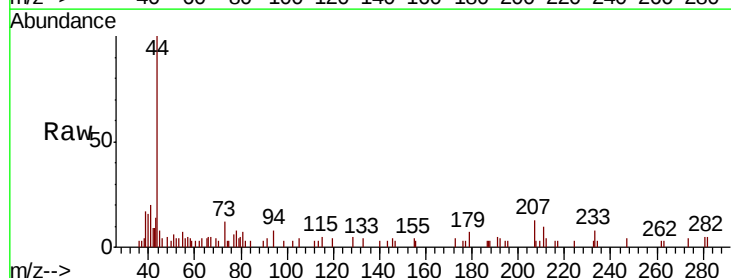
Acq: 13 May 2019 8:31

Tgt Ion: 94 Resp: 907

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

500

400

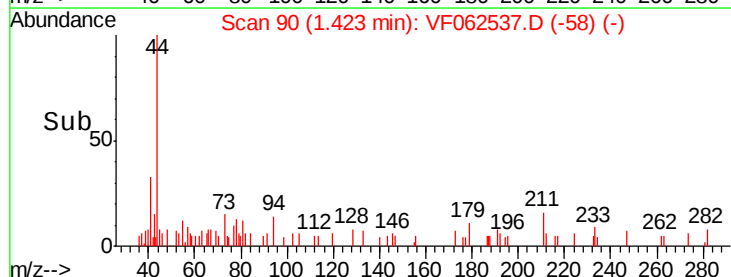
300

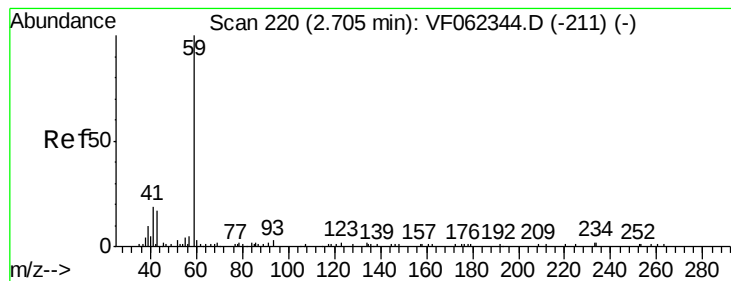
200

100

0

Time--> 1.40 1.45



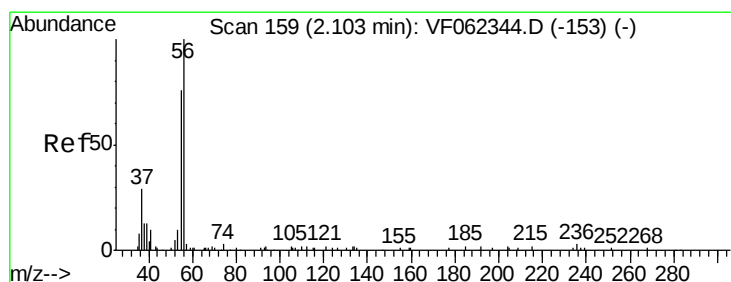
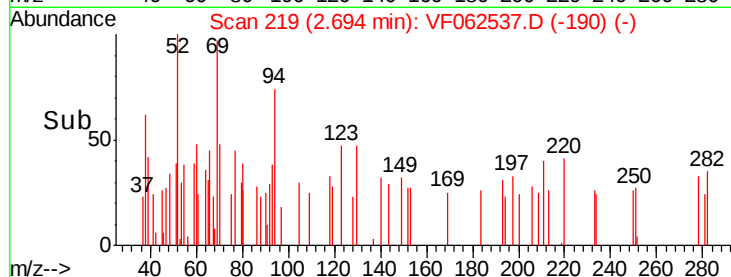
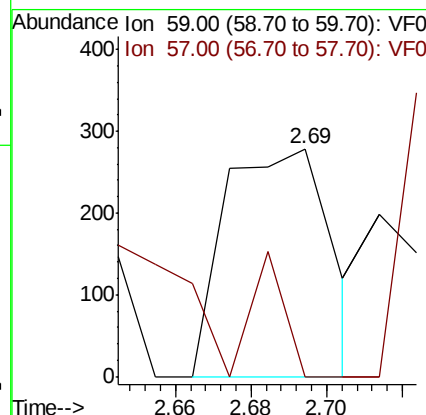
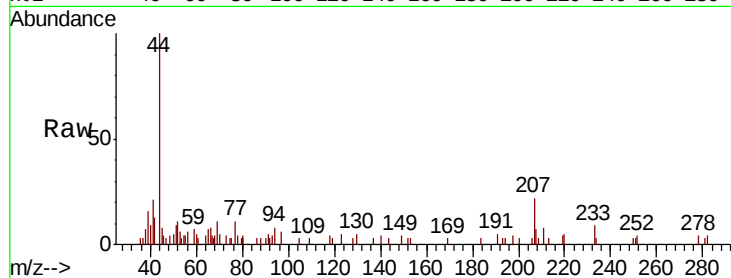


#11

Tert butyl alcohol
Concen: 3.470 ug/l
RT: 2.69 min Scan# 219
Delta R.T. -0.01 min
Lab File: VF062537.D
Acq: 13 May 2019 8:31

Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0612-01

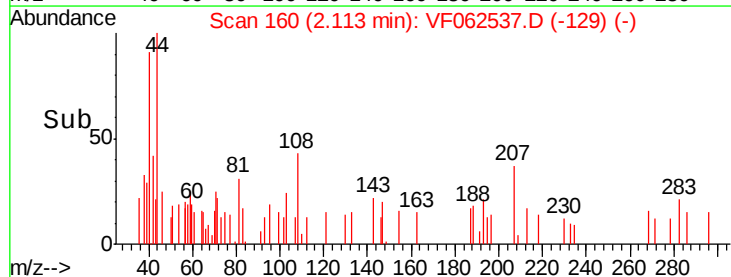
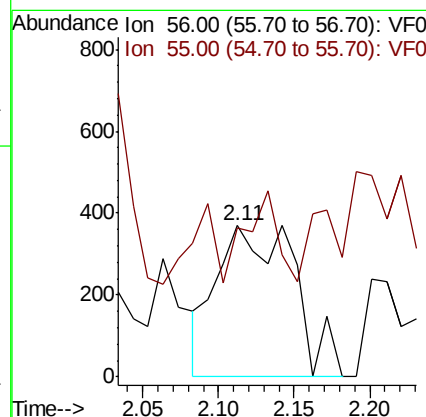
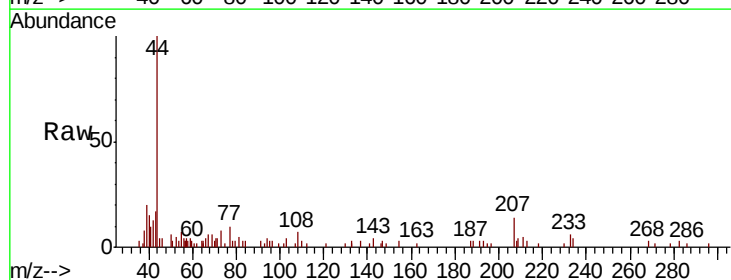
Tgt Ion: 59 Resp: 538
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#

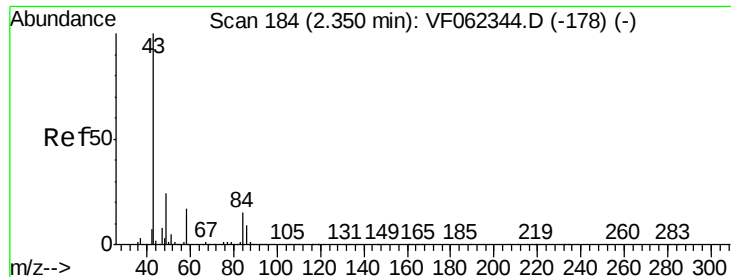


#13

Acrolein
Concen: Below Cal
RT: 2.11 min Scan# 160
Delta R.T. 0.01 min
Lab File: VF062537.D
Acq: 13 May 2019 8:31

Tgt Ion: 56 Resp: 1305
Ion Ratio Lower Upper
56 100
55 20.9 58.4 87.6#





#16

Acetone

Concen: 10.304 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

Instrument :

MSVOA_F

ClientSampleId :

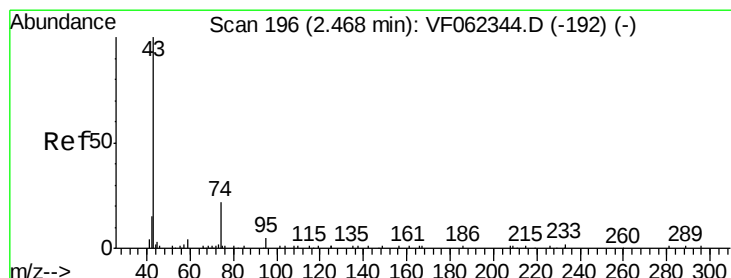
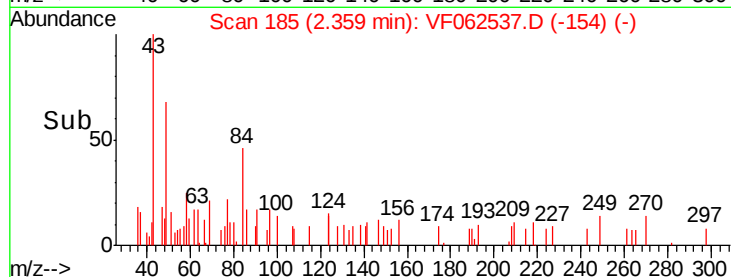
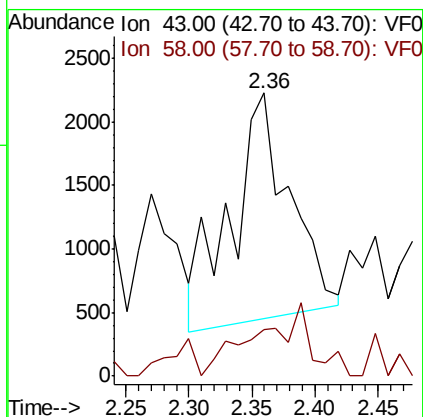
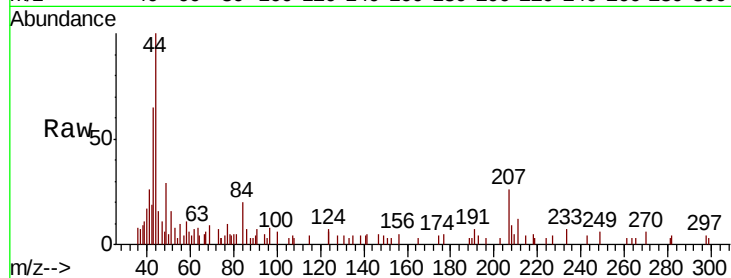
P026-SS014-0612-01

Tgt Ion: 43 Resp: 5719

Ion Ratio Lower Upper

43 100

58 10.8 13.1 19.7#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.48 min Scan# 197

Delta R.T. 0.01 min

Lab File: VF062537.D

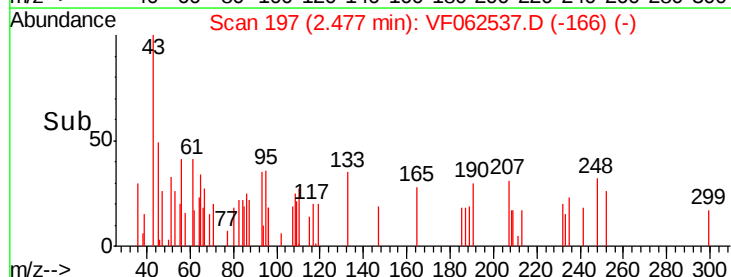
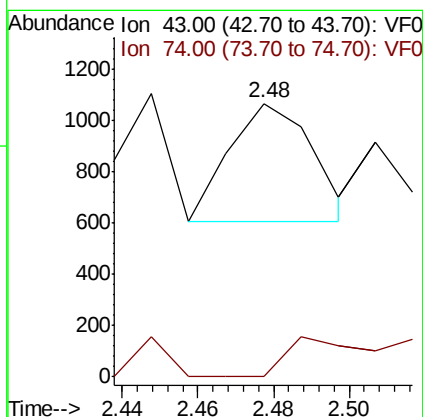
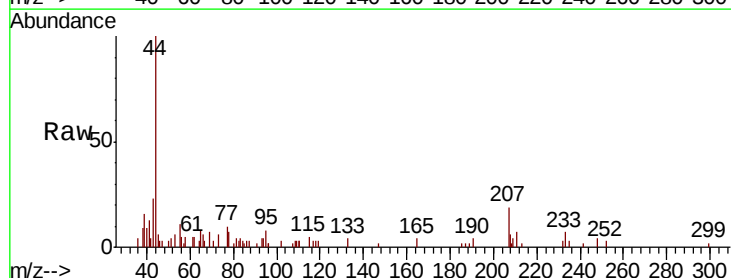
Acq: 13 May 2019 8:31

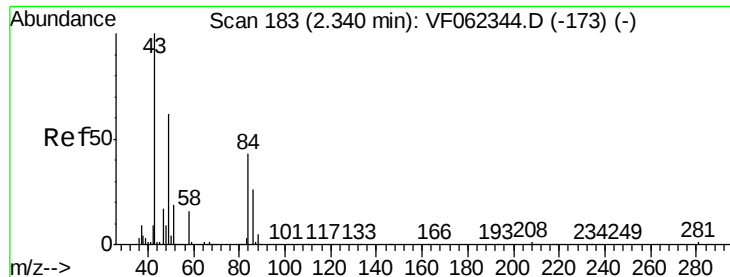
Tgt Ion: 43 Resp: 701

Ion Ratio Lower Upper

43 100

74 0.0 15.0 22.4#

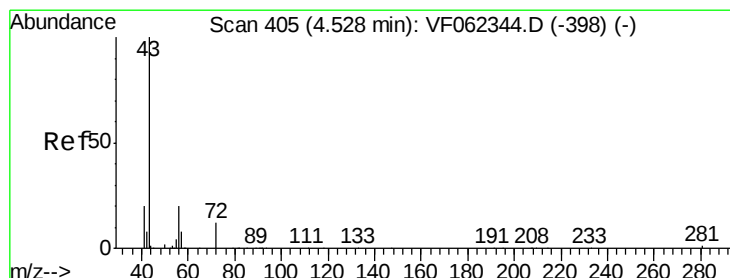
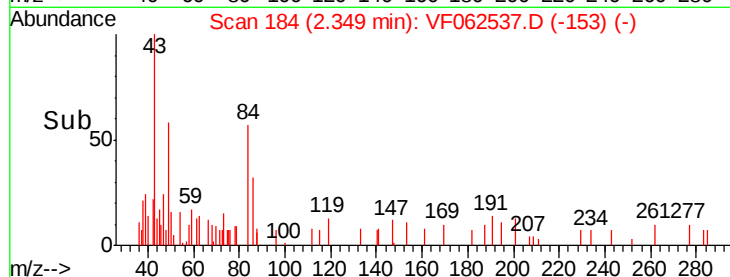
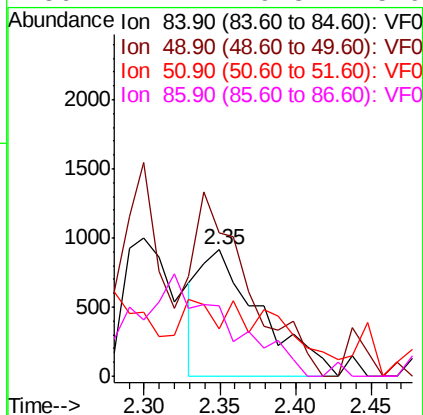
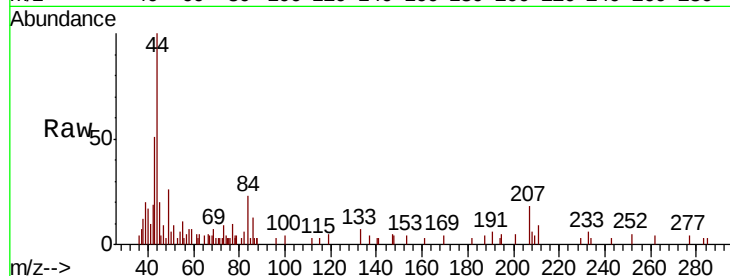




#20
Methylene Chloride
Concen: 1.265 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062537.D
Acq: 13 May 2019 8:31

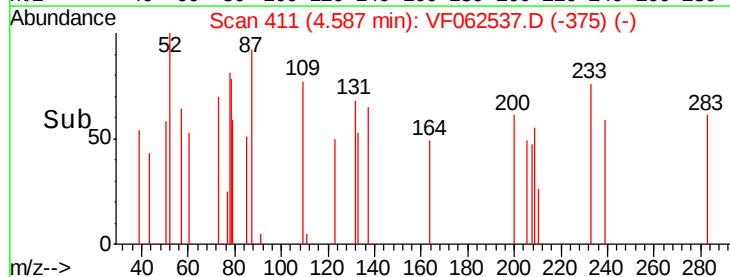
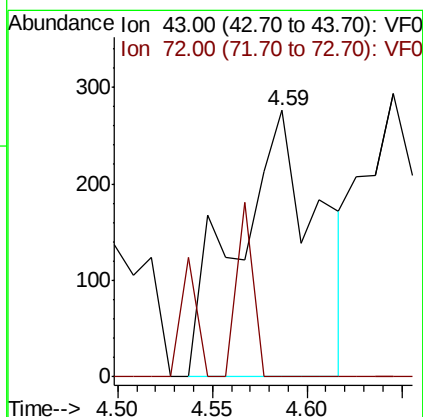
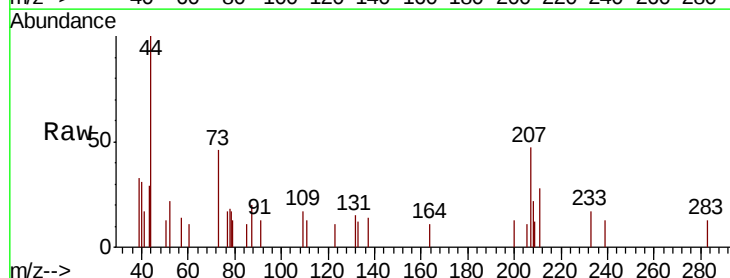
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0612-01

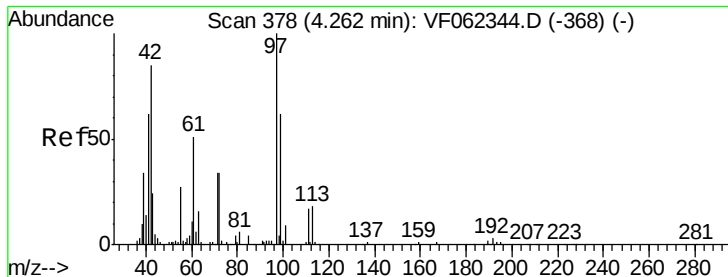
Tgt Ion: 84 Resp: 2541
Ion Ratio Lower Upper
84 100
49 113.2 117.5 176.3#
51 3.8 37.0 55.4#
86 44.4 49.3 73.9#



#25
2-Butanone
Concen: 1.183 ug/l
RT: 4.59 min Scan# 411
Delta R.T. 0.06 min
Lab File: VF062537.D
Acq: 13 May 2019 8:31

Tgt Ion: 43 Resp: 825
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 1.014 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.04 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0612-01

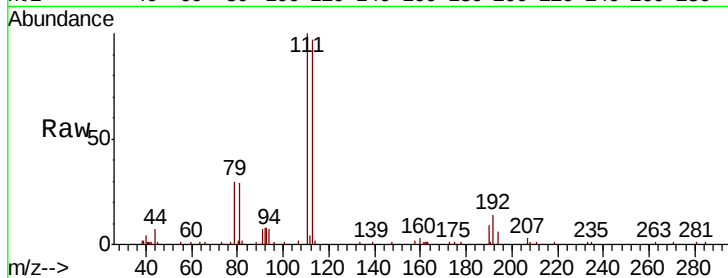
Tgt Ion: 42 Resp: 325

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

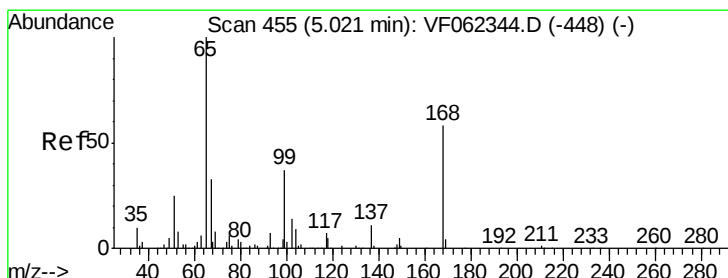
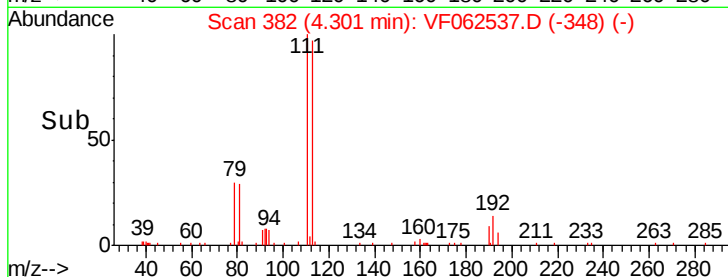
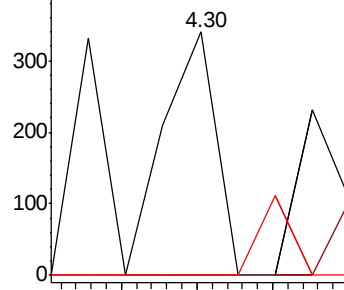
71 0.0 31.7 47.5#



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



#33

1,2-Dichloroethane-d4

Concen: 41.913 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062537.D

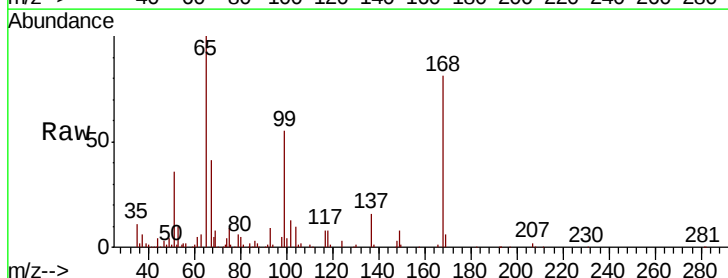
Acq: 13 May 2019 8:31

Tgt Ion: 65 Resp: 114995

Ion Ratio Lower Upper

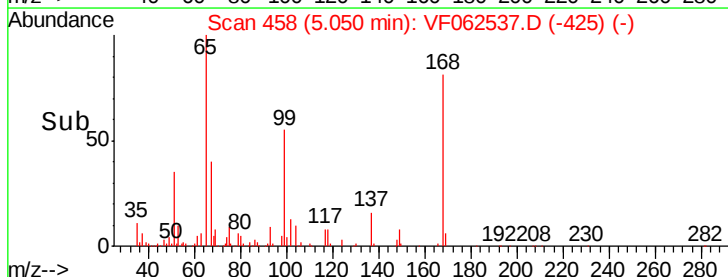
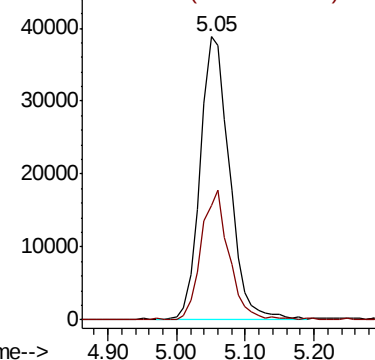
65 100

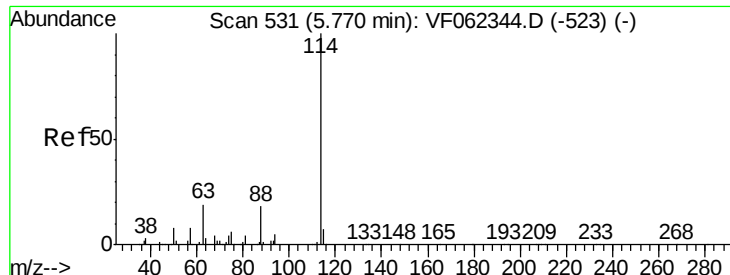
67 43.5 0.0 85.8



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: 5.80 min Scan# 534

Delta R.T. 0.03 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

Instrument :

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ClientSampleId :

P026-SS014-0612-01

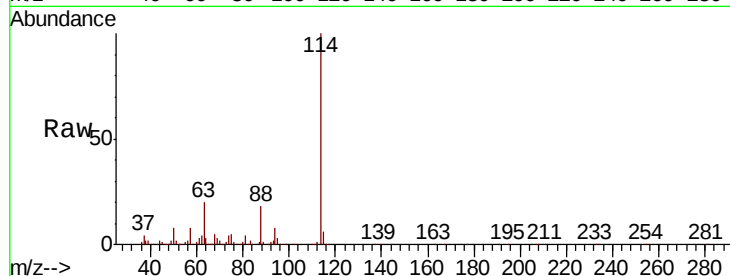
Tgt Ion:114 Resp: 404773

Ion Ratio Lower Upper

114 100

63 19.8 0.0 37.4

88 18.1 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

5.80

200000

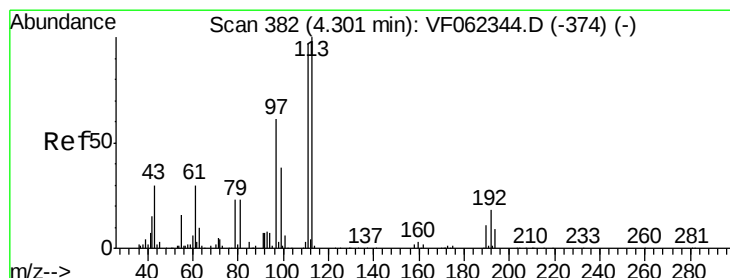
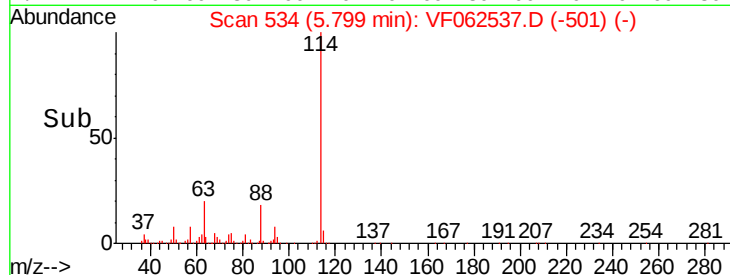
150000

100000

50000

0

Time--> 5.60 5.70 5.80 5.90 6.00



#35

Dibromofluoromethane

Concen: 45.351 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.03 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

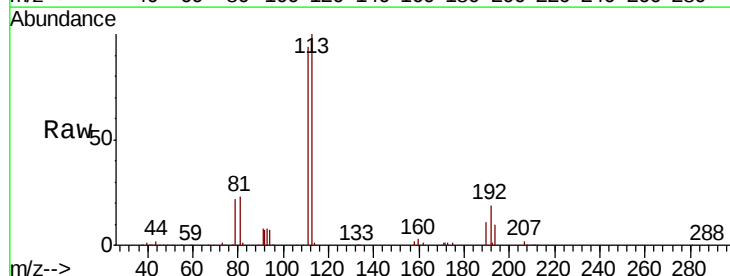
Tgt Ion:113 Resp: 146245

Ion Ratio Lower Upper

113 100

111 99.7 79.4 119.0

192 20.6 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

4.33

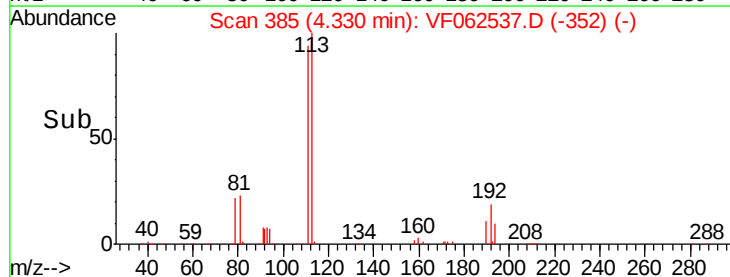
60000

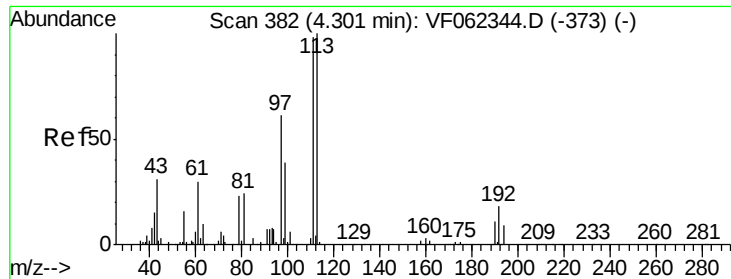
40000

20000

0

Time--> 4.20 4.30 4.40 4.50

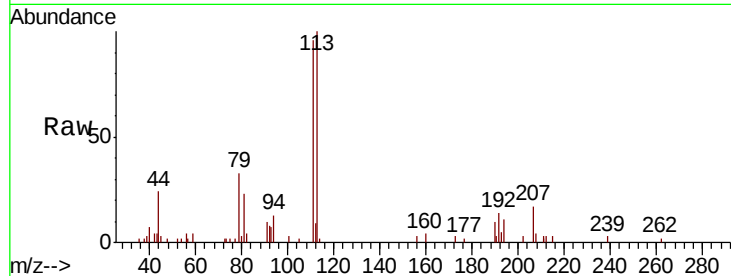




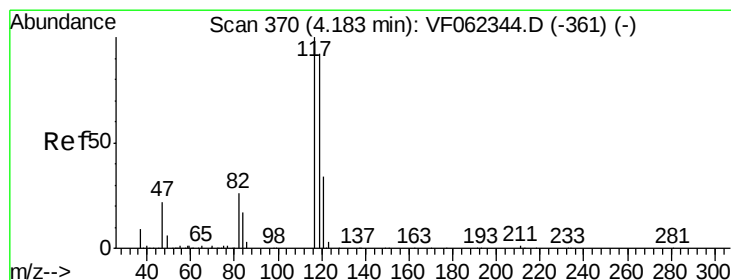
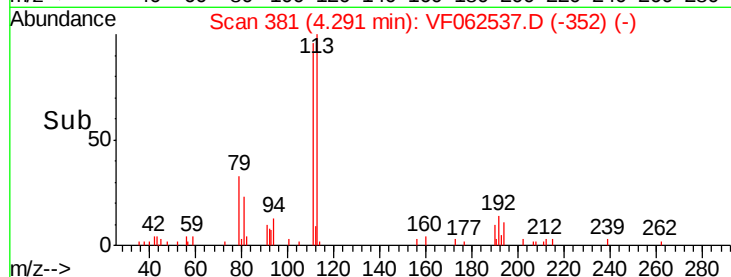
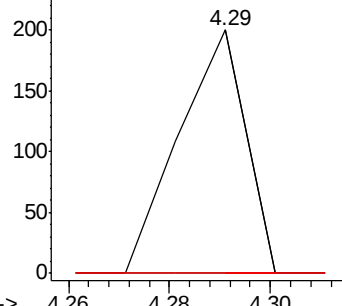
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.29 min Scan# 381
Delta R.T. -0.01 min
Lab File: VF062537.D
Acq: 13 May 2019 8:31

Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0612-01

Tgt Ion: 43 Resp: 183
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 0.0 8.2 12.2#

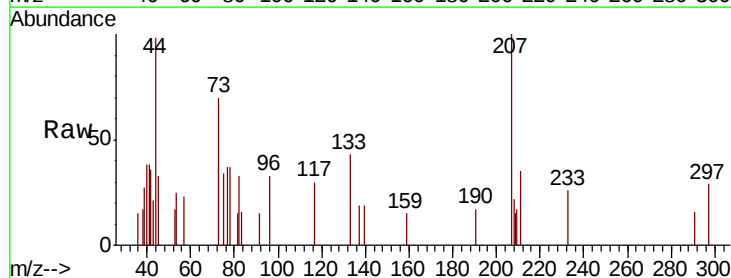


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0

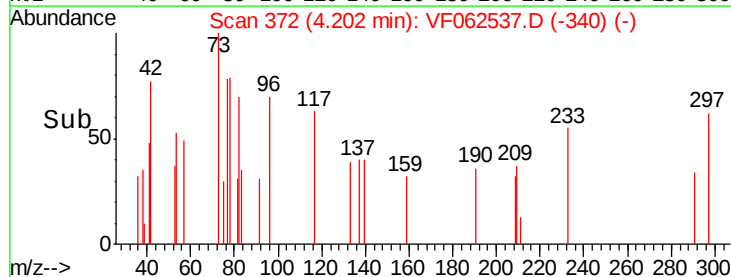
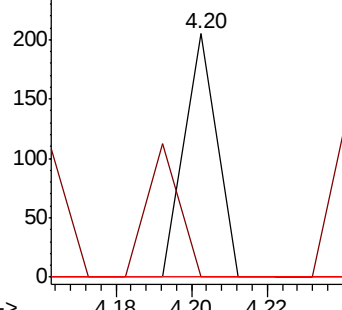


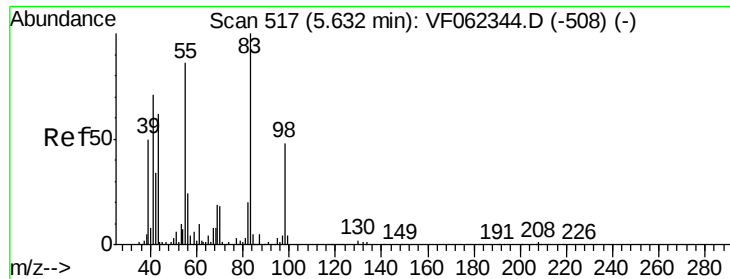
#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.20 min Scan# 372
Delta R.T. 0.02 min
Lab File: VF062537.D
Acq: 13 May 2019 8:31

Tgt Ion: 117 Resp: 121
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: 2.122 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.17 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0612-01

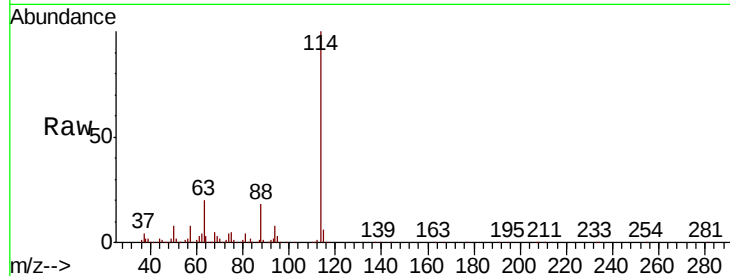
Tgt Ion: 83 Resp: 7399

Ion Ratio Lower Upper

83 100

55 43.1 69.0 103.6#

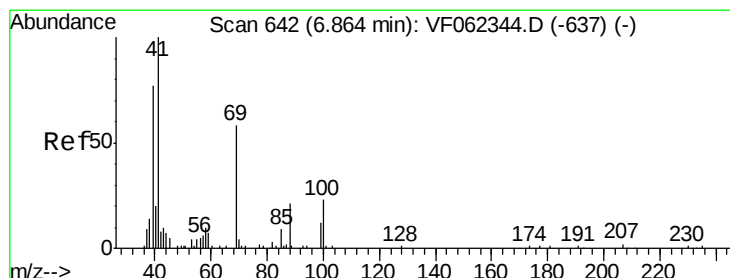
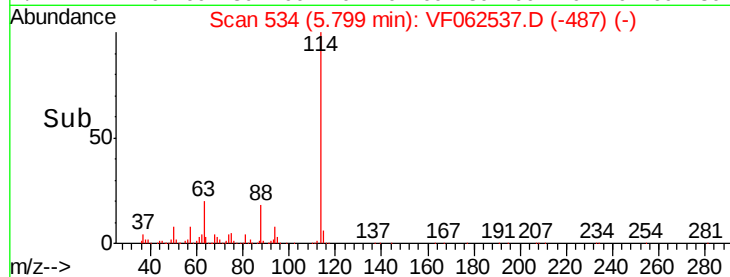
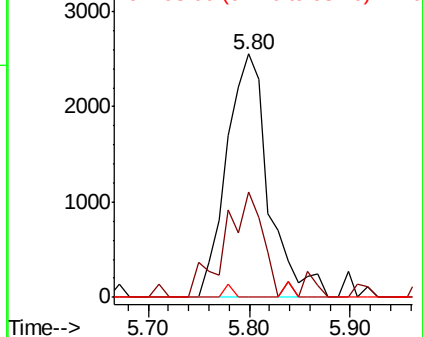
98 0.0 38.6 58.0#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 6.93 min Scan# 649

Delta R.T. 0.07 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

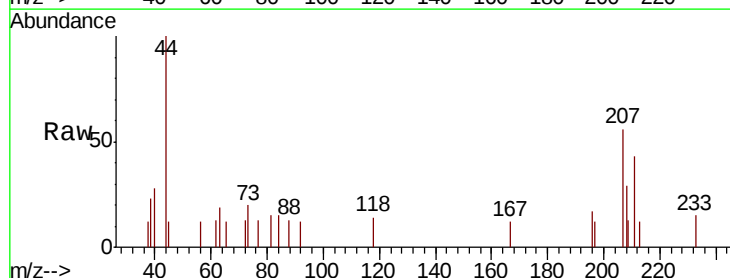
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 446.3 55.6 83.4#

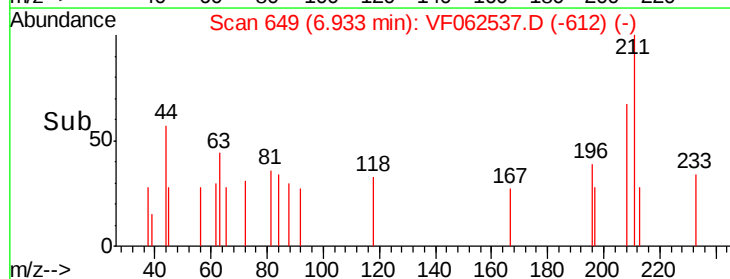
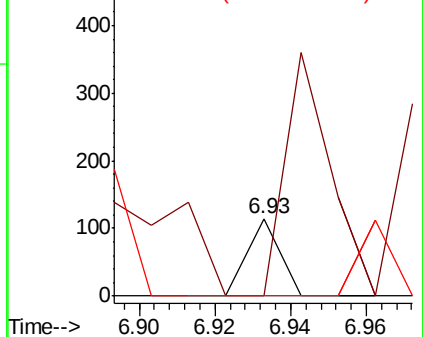
58 0.0 52.8 79.2#

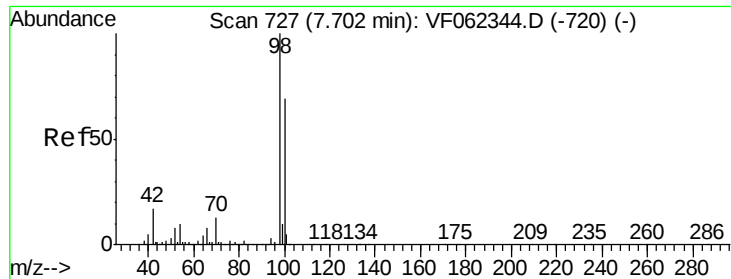


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

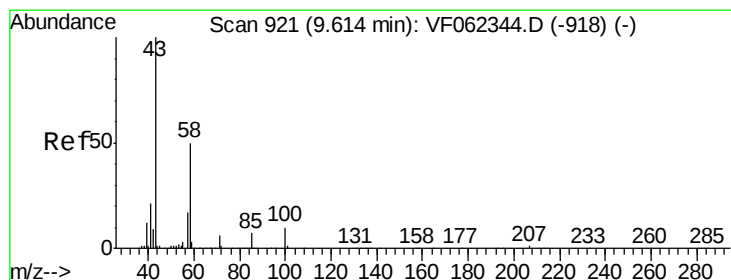
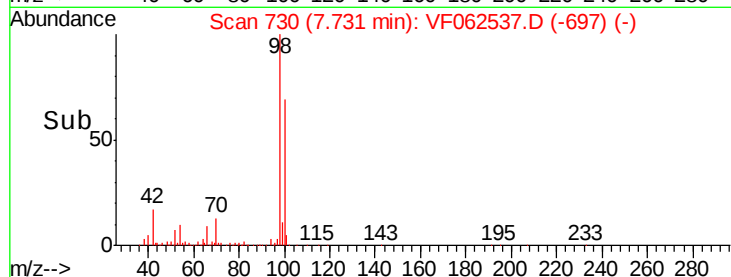
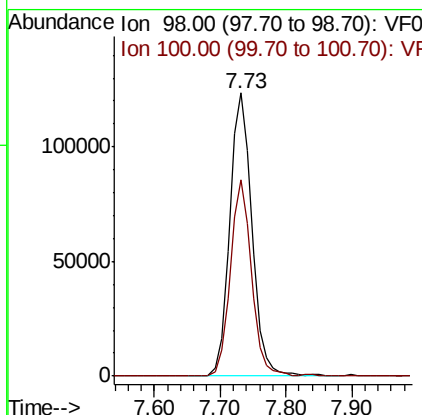
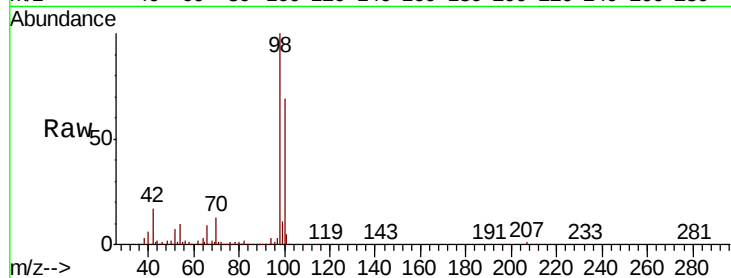




#50
Toluene-d8
Concen: 37.478 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.03 min
Lab File: VF062537.D
Acq: 13 May 2019 8:31

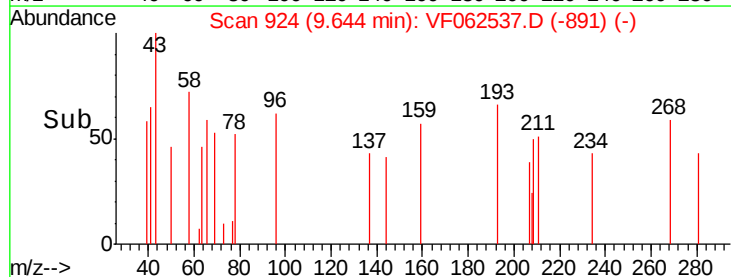
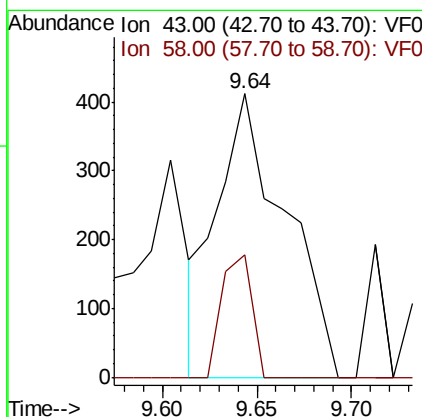
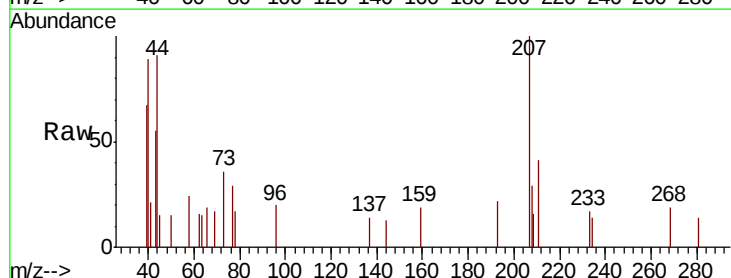
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0612-01

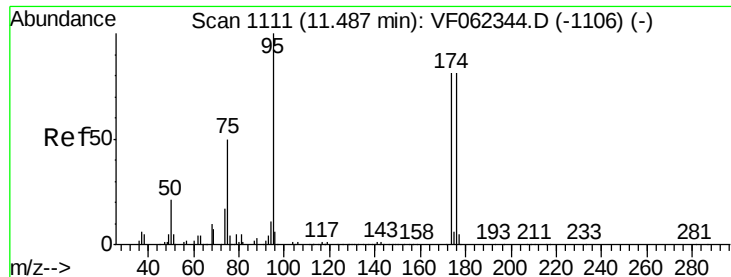
Tgt Ion: 98 Resp: 292557
Ion Ratio Lower Upper
98 100
100 66.0 53.3 79.9



#59
2-Hexanone
Concen: 1.244 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.03 min
Lab File: VF062537.D
Acq: 13 May 2019 8:31

Tgt Ion: 43 Resp: 1031
Ion Ratio Lower Upper
43 100
58 19.0 24.3 73.0#





#62

4-Bromofluorobenzene

Concen: 34.931 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0612-01

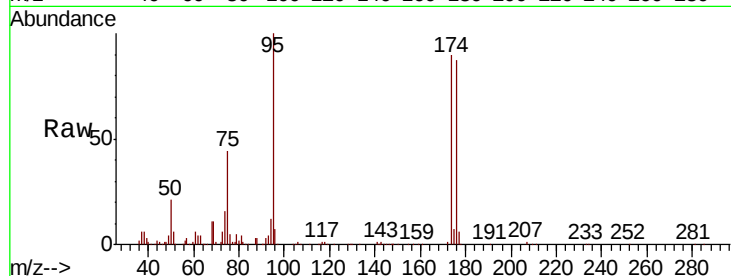
Tgt Ion: 95 Resp: 123018

Ion Ratio Lower Upper

95 100

174 97.7 0.0 191.8

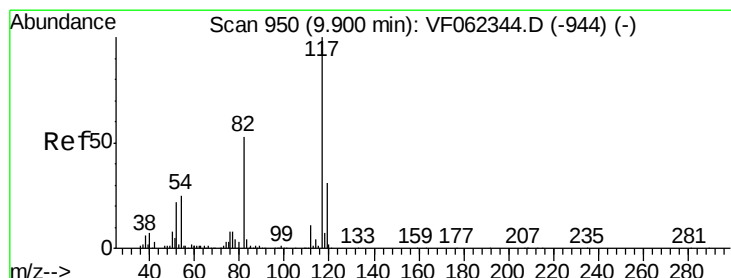
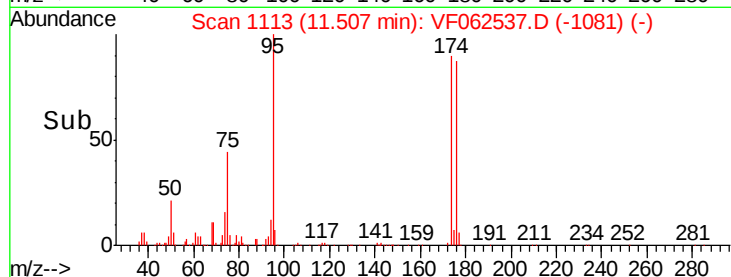
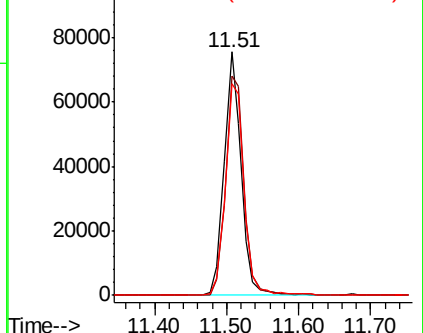
176 95.5 0.0 193.2



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: 9.93 min Scan# 953

Delta R.T. 0.03 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

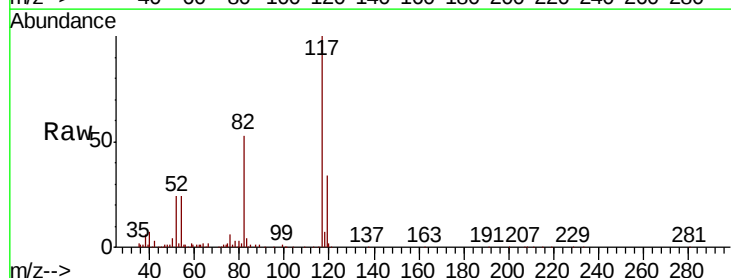
Tgt Ion: 117 Resp: 333050

Ion Ratio Lower Upper

117 100

82 53.3 42.2 63.2

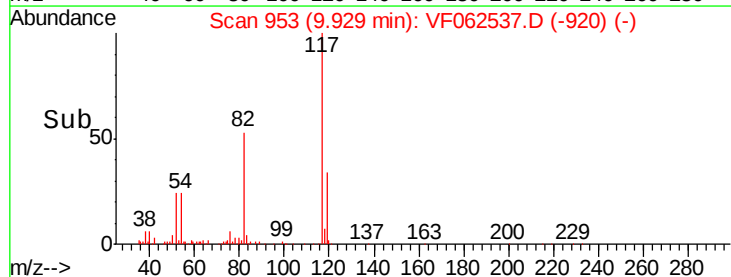
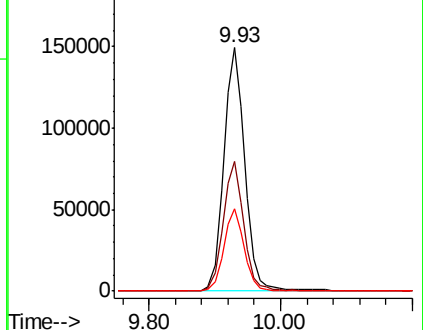
119 33.6 25.0 37.4

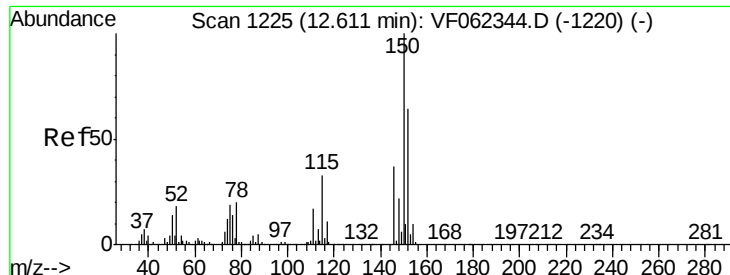


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062537.D

Acq: 13 May 2019 8:31

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0612-01

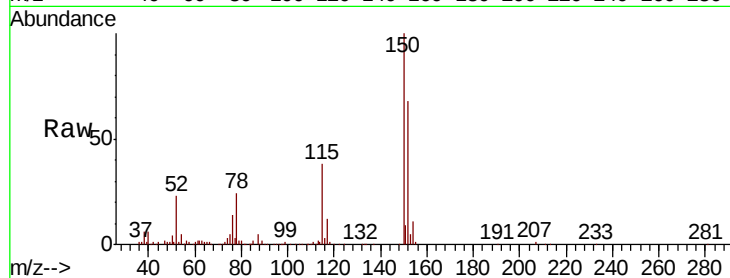
Tgt Ion:152 Resp: 171592

Ion Ratio Lower Upper

152 100

115 53.5 26.4 79.2

150 151.8 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

