

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062532.D
 Acq On : 13 May 2019 6:12
 Operator : FY/SY
 Sample : K2734-13RE
 Misc : 4.19g/5mL/MSVOA F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS013-0612-01

Quant Time: May 13 07:33:13 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	158102	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	178112	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	138502	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	55345	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.06	65	56760	37.99	ug/l	0.04
Spiked Amount			Recovery	=	75.98%	
35) Dibromofluoromethane	4.33	113	71161	50.15	ug/l	0.03
Spiked Amount			Recovery	=	100.30%	
50) Toluene-d8	7.73	98	135929	39.57	ug/l	0.03
Spiked Amount			Recovery	=	79.14%	
62) 4-Bromofluorobenzene	11.51	95	45622	29.44	ug/l	0.02
Spiked Amount			Recovery	=	58.88%	

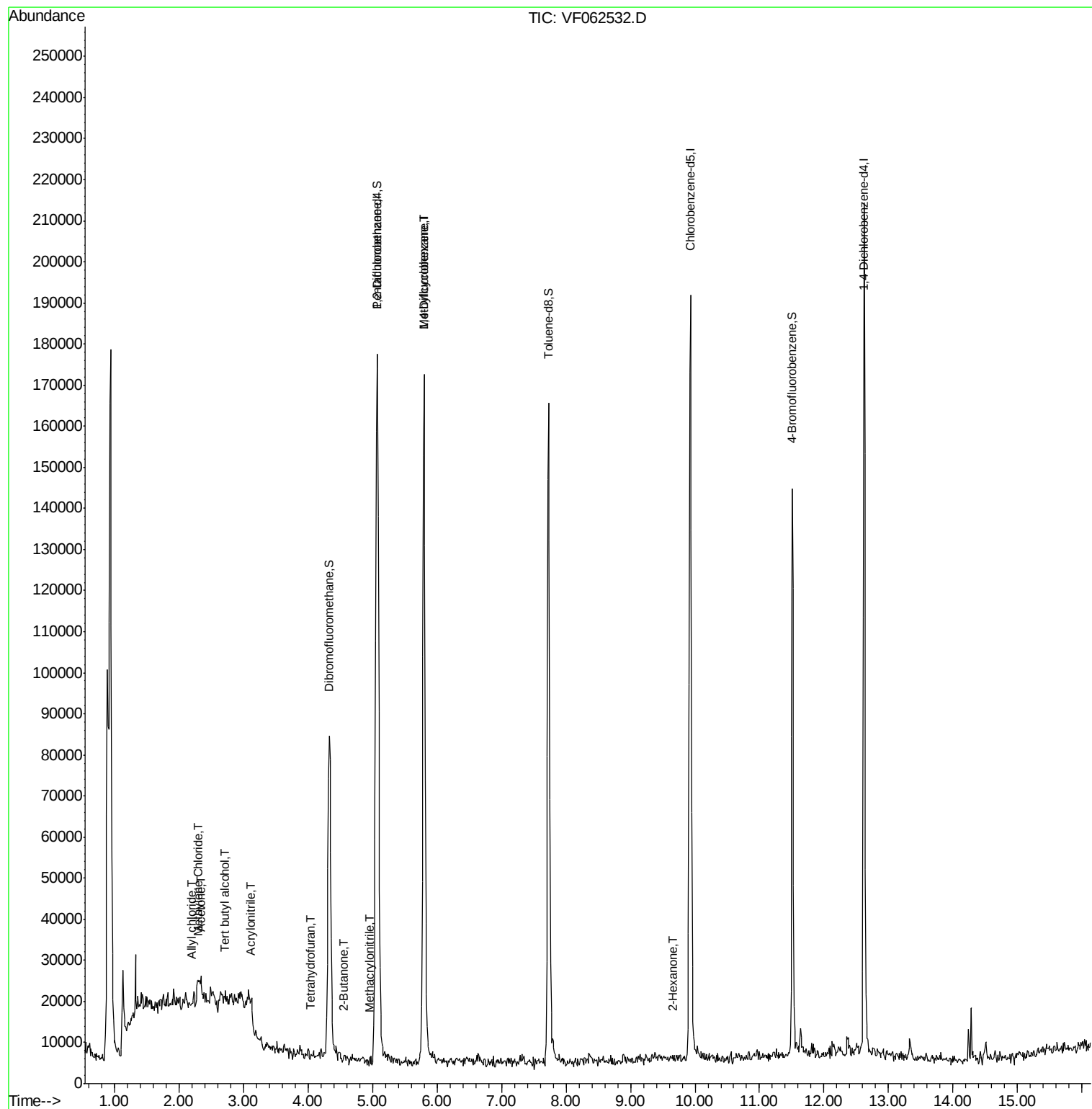
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	300	Below Cal	#	3
11) Tert butyl alcohol	2.69	59	618	7.318	ug/l #	1
13) Acrolein	2.08	56	973	Below Cal		96
14) Allyl chloride	2.19	41	1088	1.016	ug/l #	39
15) Acrylonitrile	3.11	53	730	4.564	ug/l #	1
16) Acetone	2.35	43	4533	14.997	ug/l #	91
18) Methyl Acetate	2.52	43	1149	Below Cal	#	91
20) Methylene Chloride	2.31	84	3932	3.596	ug/l #	67
25) 2-Butanone	4.56	43	1465	3.858	ug/l #	60
29) Tetrahydrofuran	4.04	42	189	1.083	ug/l	92
37) Ethyl Acetate	4.30	43	723	Below Cal	#	86
38) Carbon Tetrachloride	4.28	117	62	Below Cal	#	14
39) Methylcyclohexane	5.80	83	3679	2.398	ug/l #	48
41) Methacrylonitrile	4.95	41	564	1.537	ug/l #	37
49) 1,4-Dioxane	6.91	88	66	Below Cal	#	1
59) 2-Hexanone	9.65	43	1085	2.975	ug/l #	39

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

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Quant Title : SW846 8260
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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: VF062532.D

Acq: 13 May 2019 6:12

Instrument :

MSVOA_F

ClientSampleId :

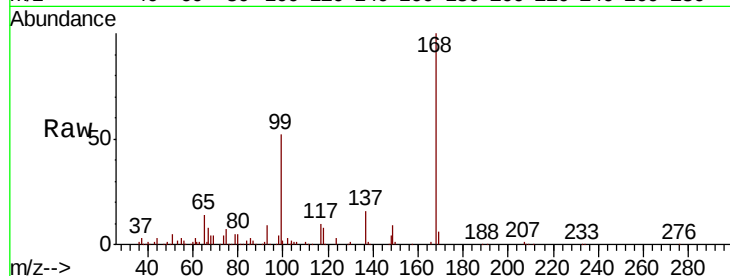
P026-SS013-0612-01

Tot Ion:168 Resp: 158102

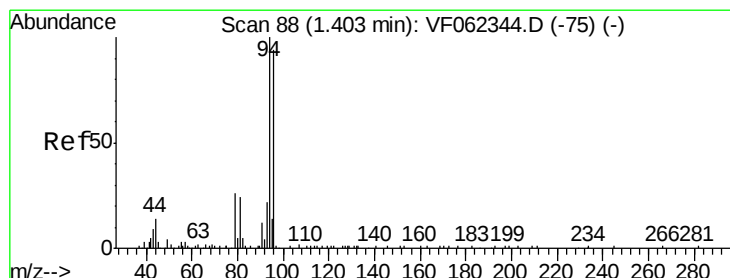
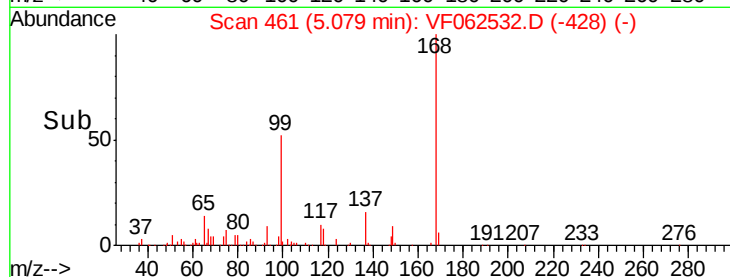
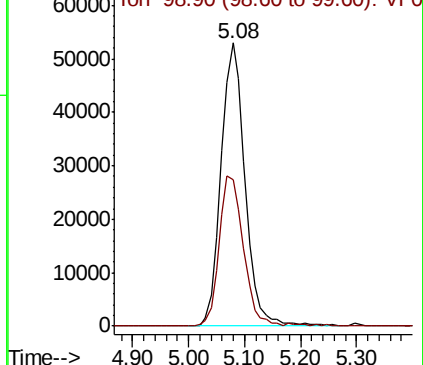
Ion Ratio Lower Upper

168 100

99 51.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062532.D

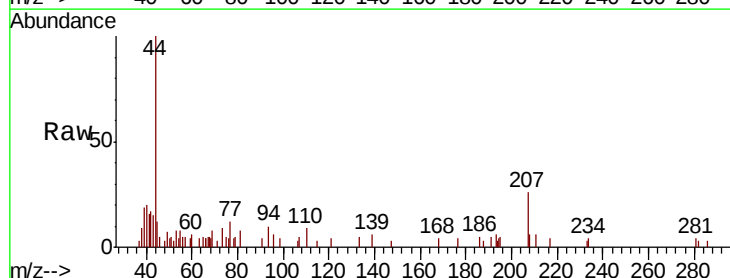
Acq: 13 May 2019 6:12

Tgt Ion: 94 Resp: 300

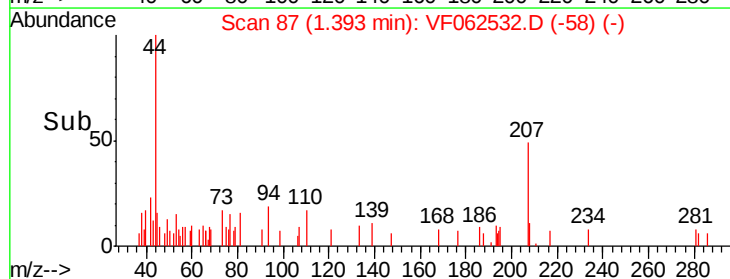
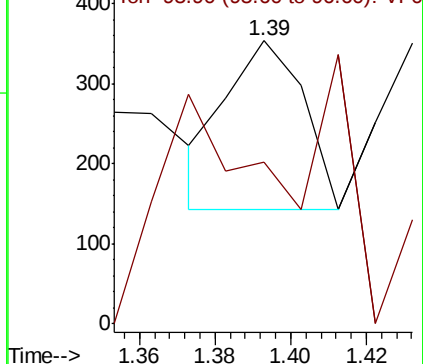
Ion Ratio Lower Upper

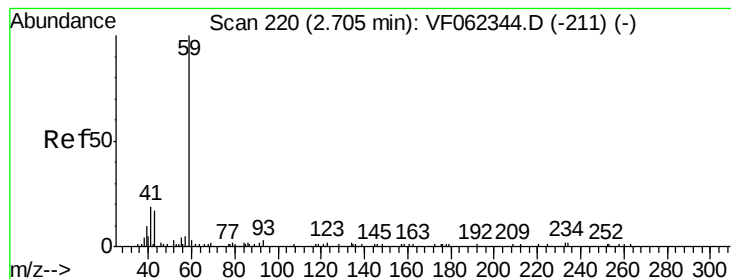
94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0



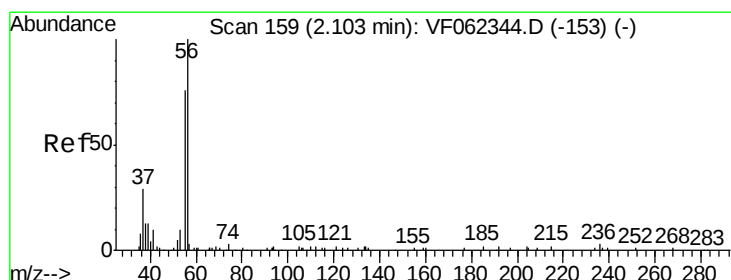
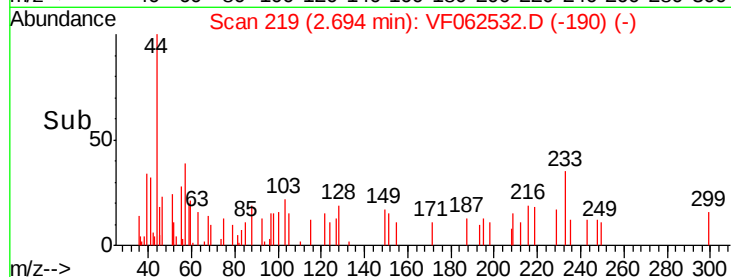
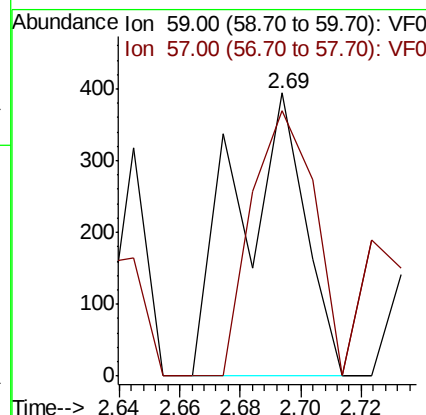
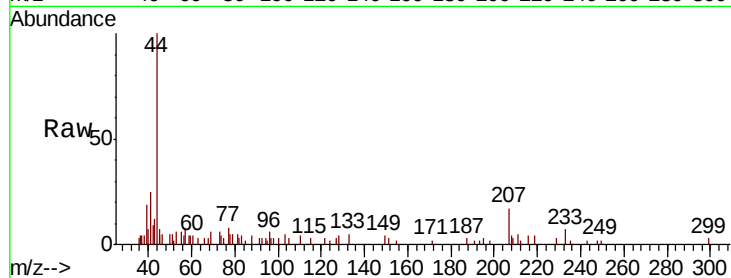


#11

Tert butyl alcohol
 Concen: 7.318 ug/l
 RT: 2.69 min Scan# 219
 Delta R.T. -0.01 min
 Lab File: VF062532.D
 Acq: 13 May 2019 6:12

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS013-0612-01

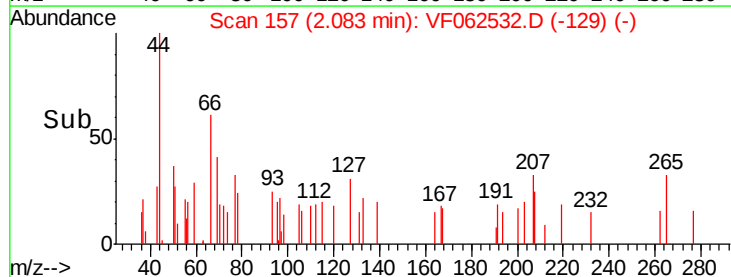
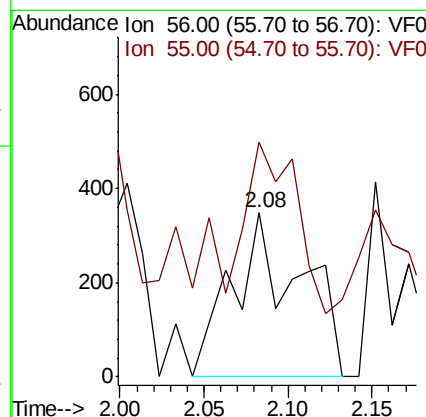
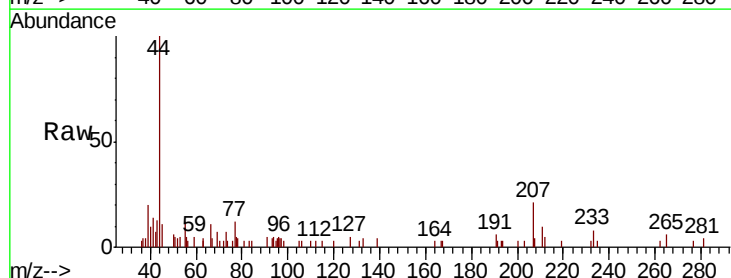
Tot Ion: 59 Resp: 618
 Ion Ratio Lower Upper
 59 100
 57 86.2 9.3 13.9#

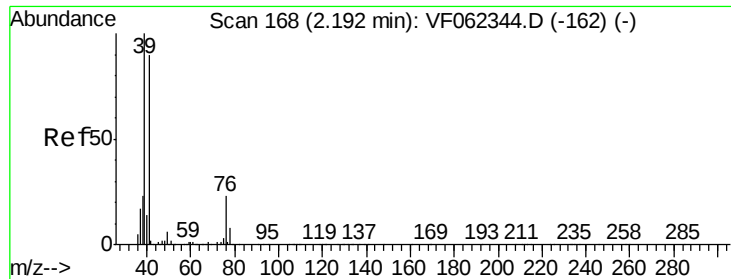


#13

Acrolein
 Concen: Below Cal
 RT: 2.08 min Scan# 157
 Delta R.T. -0.02 min
 Lab File: VF062532.D
 Acq: 13 May 2019 6:12

Tgt Ion: 56 Resp: 973
 Ion Ratio Lower Upper
 56 100
 55 76.7 58.4 87.6

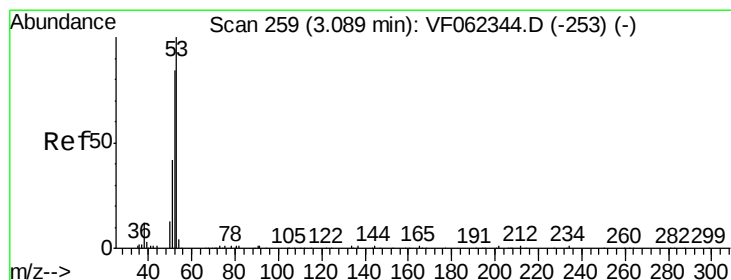
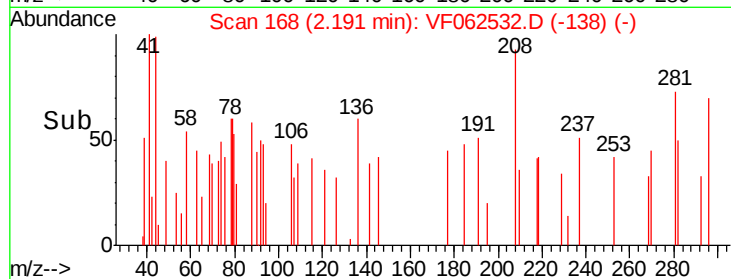
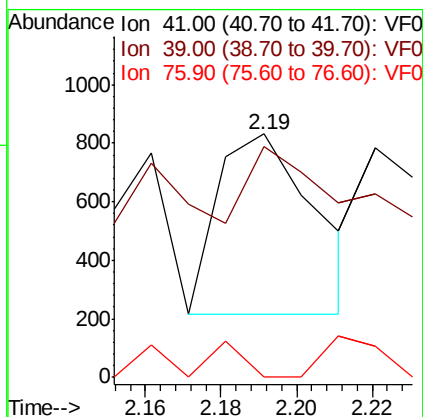
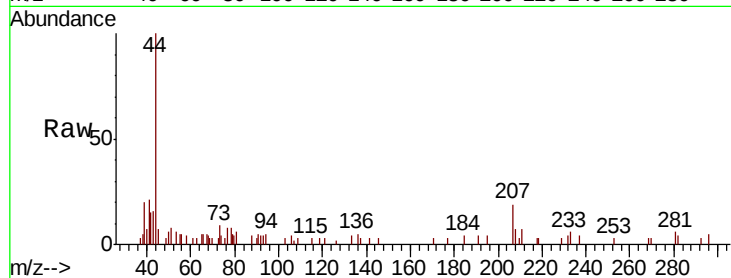




#14
Allvl chloride
Concen: 1.016 ug/l
RT: 2.19 min Scan# 168
Delta R.T. -0.00 min
Lab File: VF062532.D
Acq: 13 May 2019 6:12

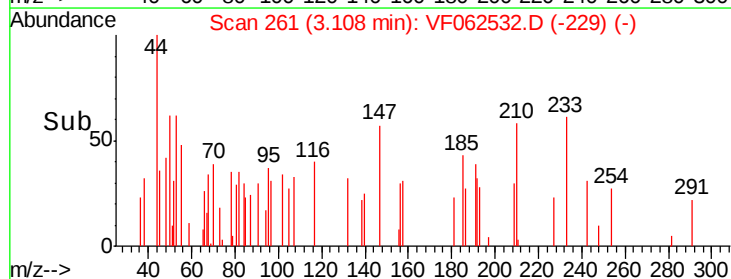
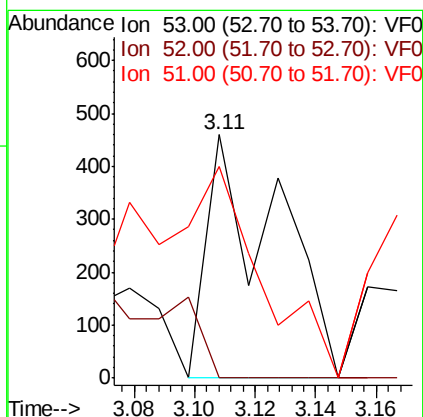
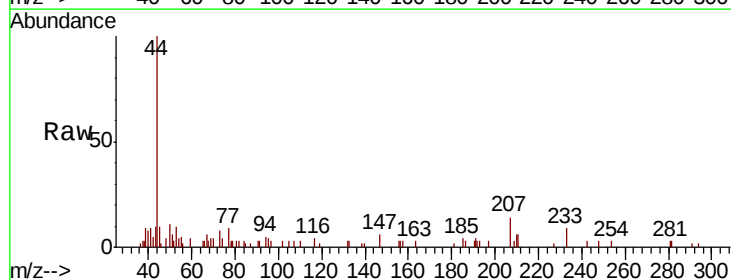
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-0612-01

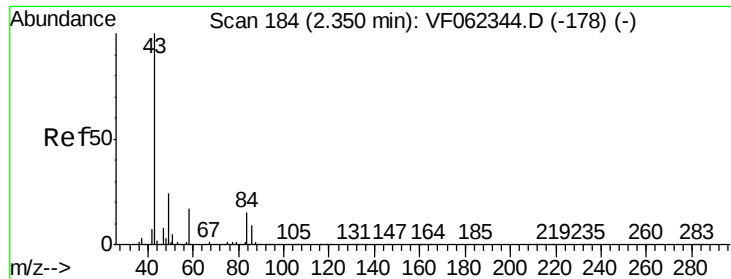
Tot Ion: 41 Resp: 1088
Ion Ratio Lower Upper
41 100
39 39.6 90.8 136.2#
76 13.5 22.2 33.4#



#15
Acrylonitrile
Concen: 4.564 ug/l
RT: 3.11 min Scan# 261
Delta R.T. 0.02 min
Lab File: VF062532.D
Acq: 13 May 2019 6:12

Tgt Ion: 53 Resp: 730
Ion Ratio Lower Upper
53 100
52 0.0 77.2 115.8#
51 141.8 40.6 61.0#





#16

Acetone

Concen: 14.997 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062532.D

Acq: 13 May 2019 6:12

Instrument :

MSVOA_F

ClientSampleId :

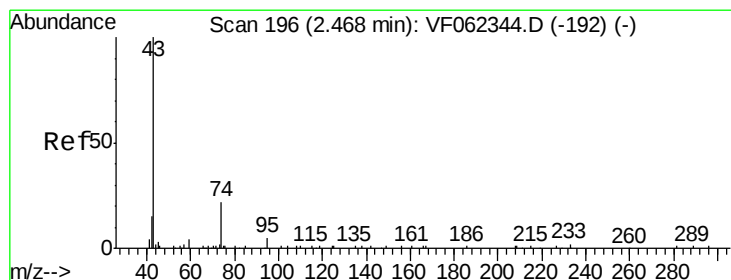
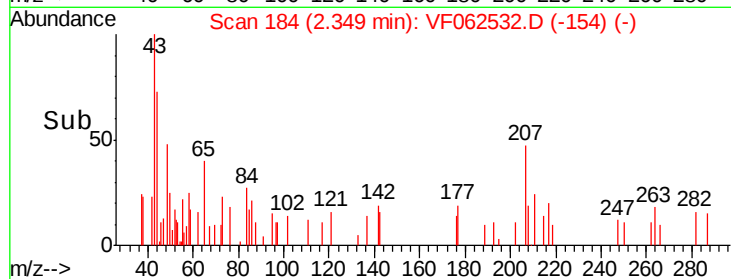
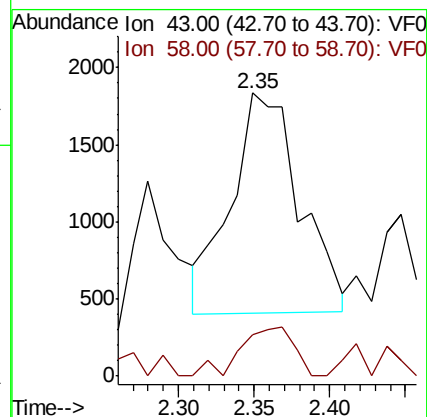
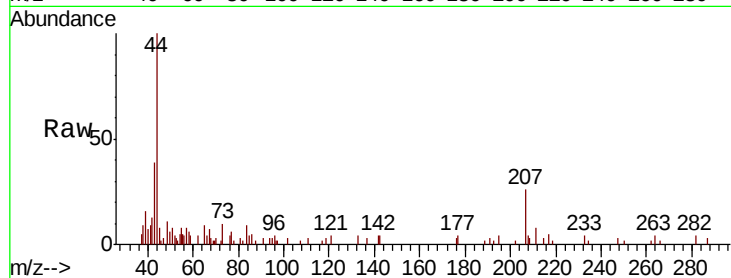
P026-SS013-0612-01

Tot Ion: 43 Resp: 4533

Ion Ratio Lower Upper

43 100

58 20.3 13.1 19.7#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.52 min Scan# 201

Delta R.T. 0.05 min

Lab File: VF062532.D

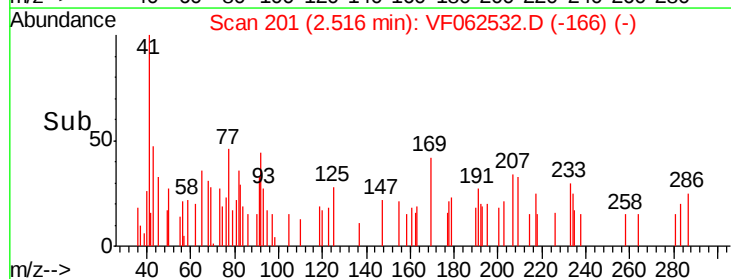
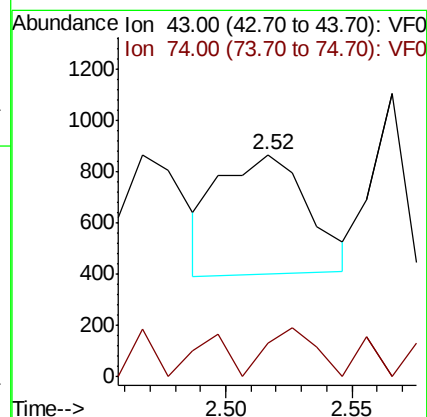
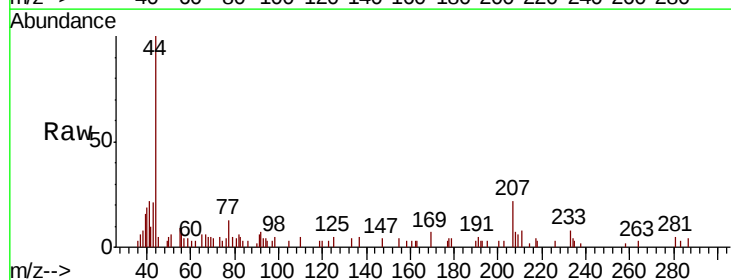
Acq: 13 May 2019 6:12

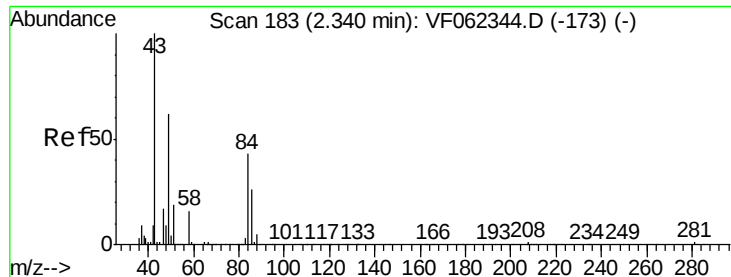
Tgt Ion: 43 Resp: 1149

Ion Ratio Lower Upper

43 100

74 22.6 15.0 22.4#

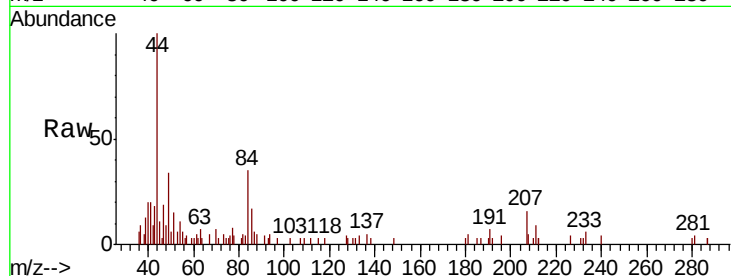




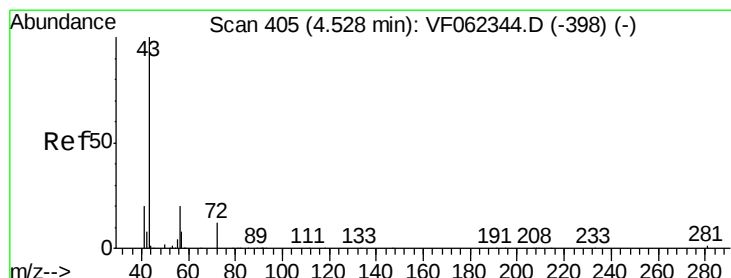
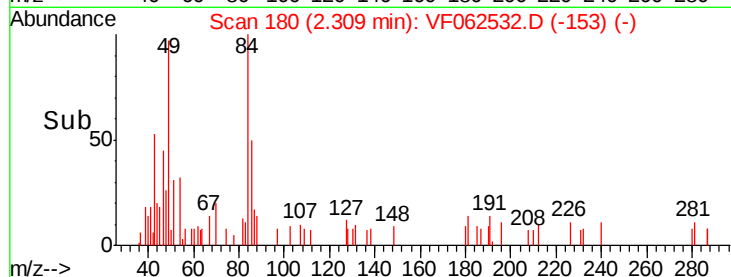
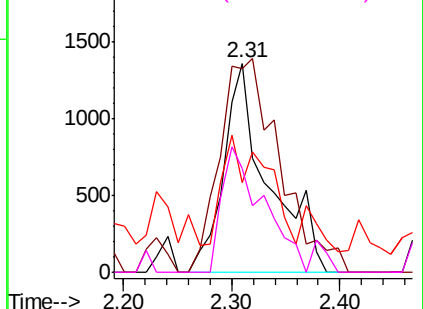
#20
Methvlene Chloride
Concen: 3.596 ug/l
RT: 2.31 min Scan# 180
Delta R.T. -0.03 min
Lab File: VF062532.D
Acq: 13 May 2019 6:12

Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-0612-01

Tot Ion: 84 Resp: 3932
Ion Ratio Lower Upper
84 100
49 97.2 117.5 176.3#
51 21.3 37.0 55.4#
86 49.5 49.3 73.9

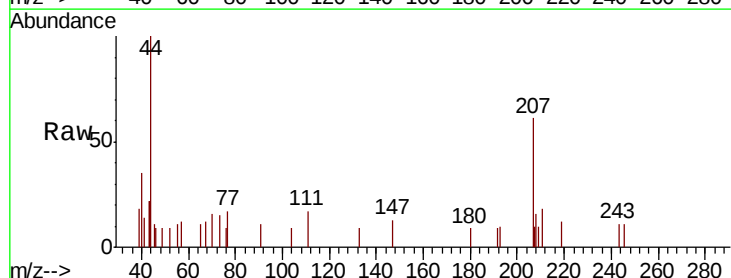


Abundance Ion 83.90 (83.60 to 84.60): VF0
Ion 48.90 (48.60 to 49.60): VF0
Ion 50.90 (50.60 to 51.60): VF0
Ion 85.90 (85.60 to 86.60): VF0

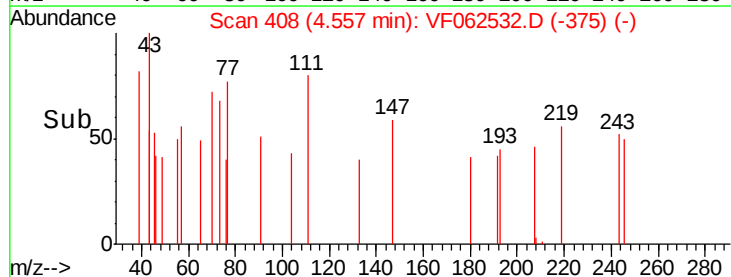
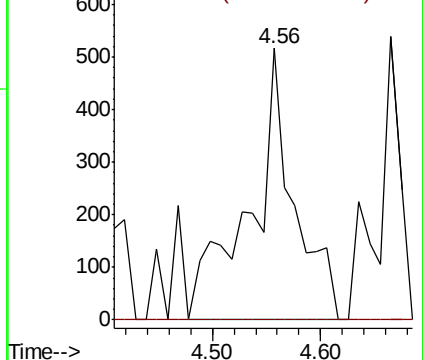


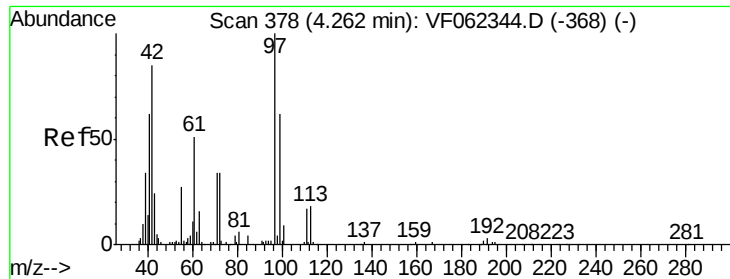
#25
2-Butanone
Concen: 3.858 ug/l
RT: 4.56 min Scan# 408
Delta R.T. 0.03 min
Lab File: VF062532.D
Acq: 13 May 2019 6:12

Tgt Ion: 43 Resp: 1465
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





#29

Tetrahydrofuran

Concen: 1.083 ug/l

RT: 4.04 min Scan# 356

Delta R.T. -0.22 min

Lab File: VF062532.D

Acq: 13 May 2019 6:12

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-0612-01

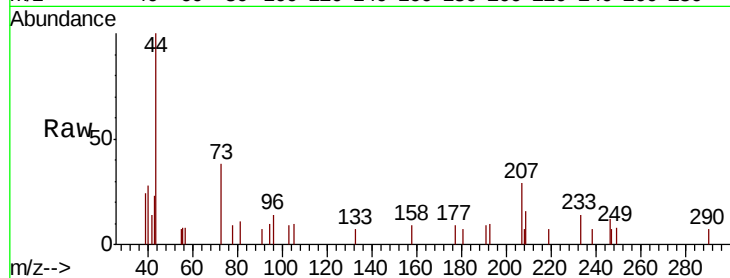
Tot Ion: 42 Resp: 189

Ion Ratio Lower Upper

42 100

72 31.7 31.4 47.0

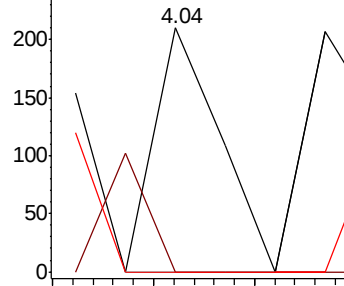
71 37.6 31.7 47.5



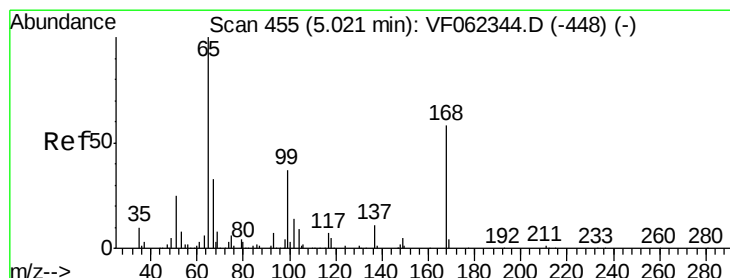
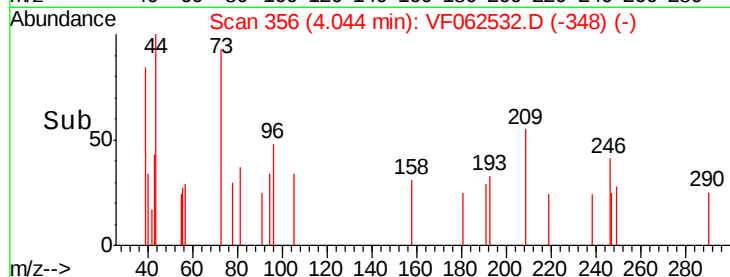
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time--> 4.02 4.04 4.06



#33

1,2-Dichloroethane-d4

Concen: 37.989 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.04 min

Lab File: VF062532.D

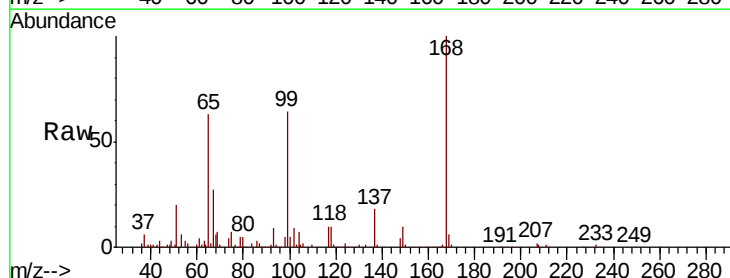
Acq: 13 May 2019 6:12

Tgt Ion: 65 Resp: 56760

Ion Ratio Lower Upper

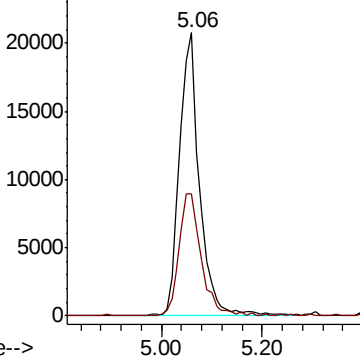
65 100

67 47.8 0.0 85.8

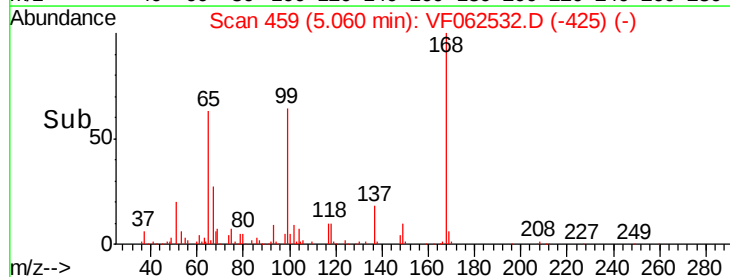


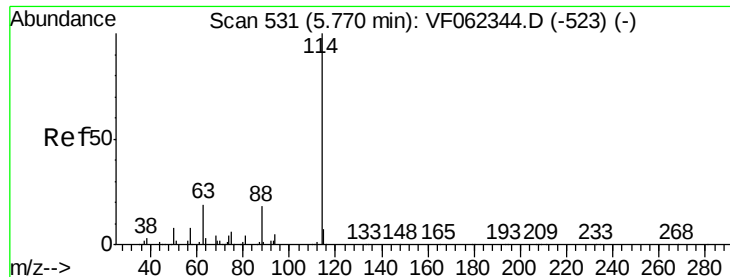
Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



Time--> 5.00 5.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. 0.03 min

Lab File: VF062532.D

Acq: 13 May 2019 6:12

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-0612-01

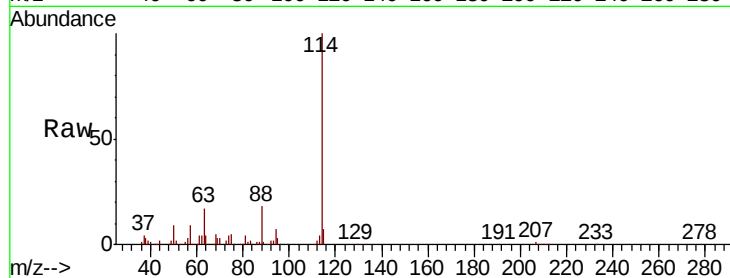
Tot Ion:114 Resp: 178112

Ion Ratio Lower Upper

114 100

63 16.9 0.0 37.4

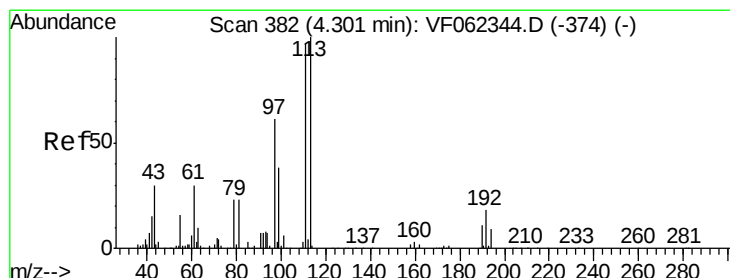
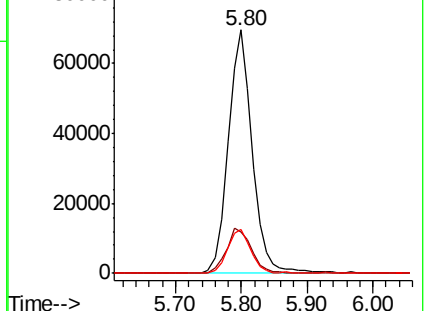
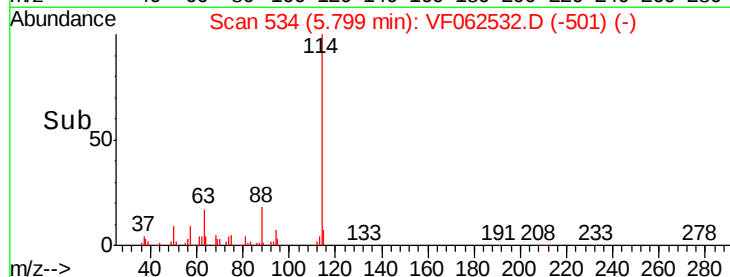
88 18.0 0.0 36.4



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: 50.149 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.03 min

Lab File: VF062532.D

Acq: 13 May 2019 6:12

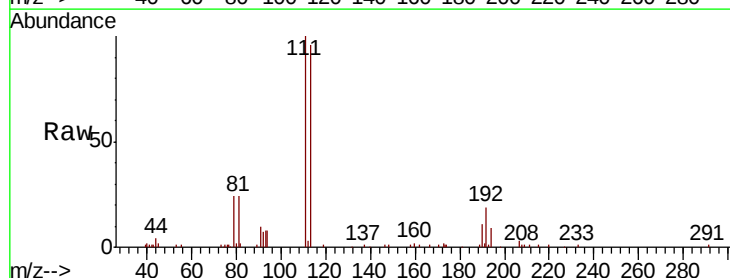
Tgt Ion:113 Resp: 71161

Ion Ratio Lower Upper

113 100

111 97.5 79.4 119.0

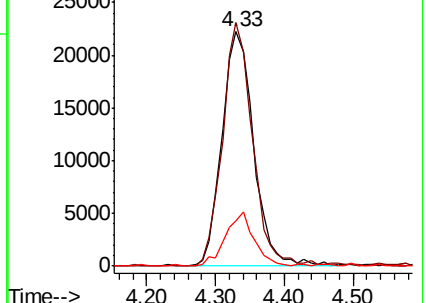
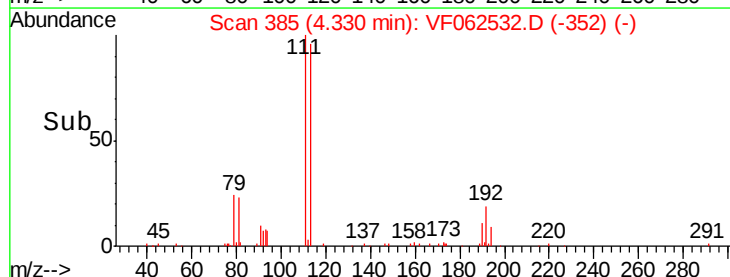
192 20.8 16.0 24.0

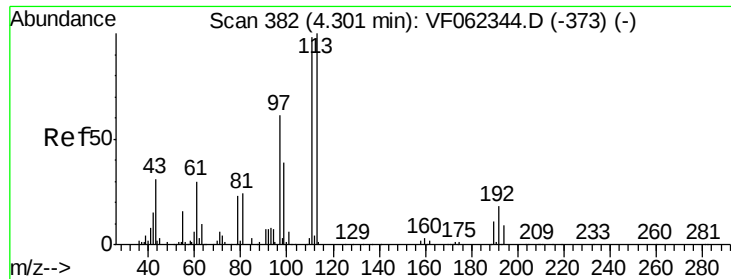


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

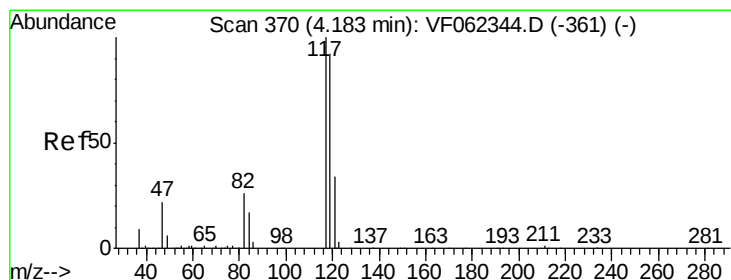
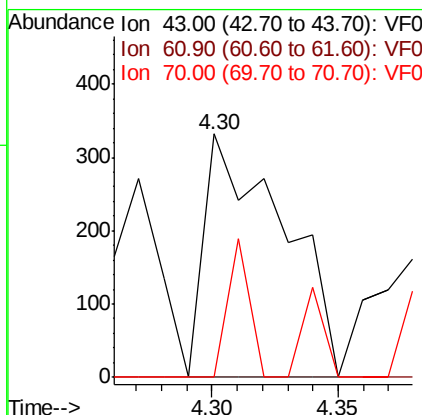
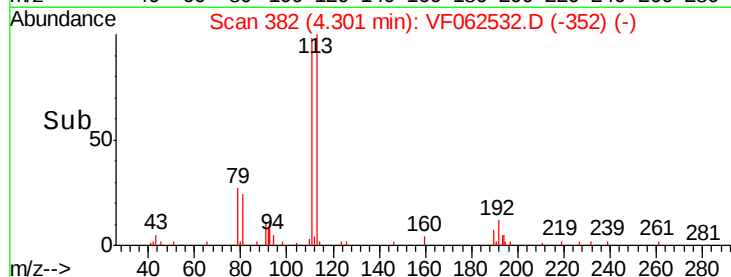
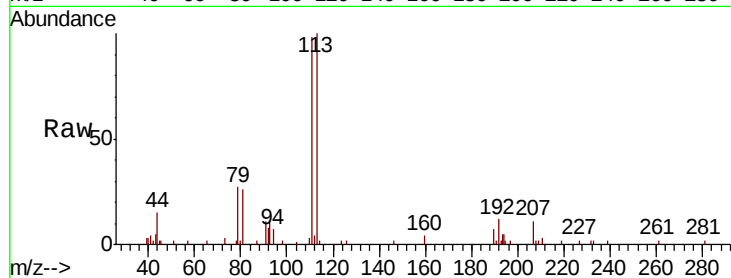




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 382
Delta R.T. -0.00 min
Lab File: VF062532.D
Acq: 13 May 2019 6:12

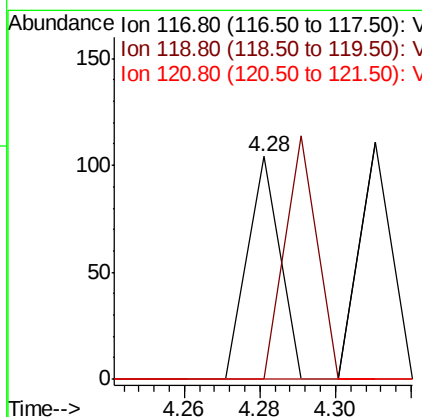
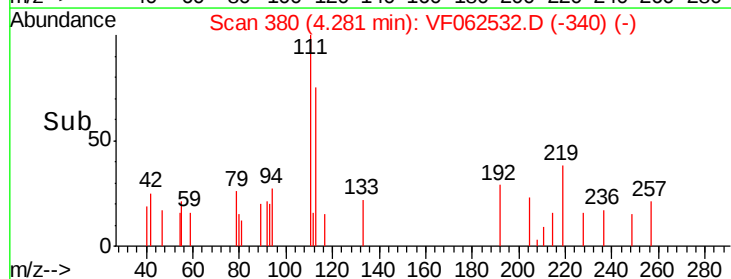
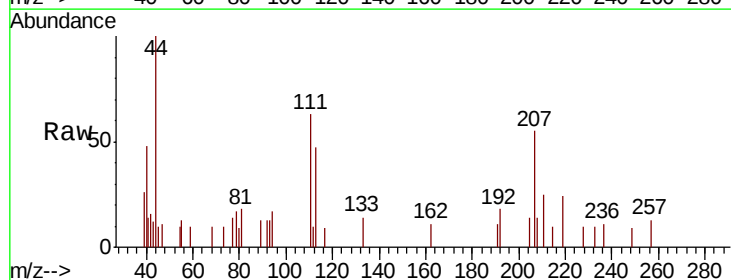
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-0612-01

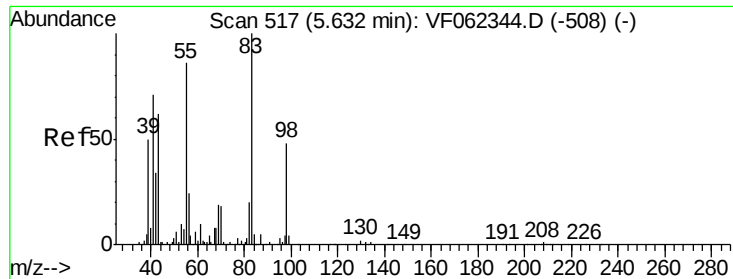
Tot Ion: 43 Resp: 723
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 15.5 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.28 min Scan# 380
Delta R.T. 0.10 min
Lab File: VF062532.D
Acq: 13 May 2019 6:12

Tgt Ion: 117 Resp: 62
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

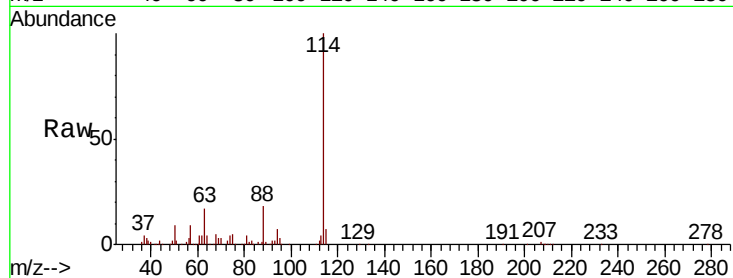




#39
Methylcyclohexane
Concen: 2.398 ug/l
RT: 5.80 min Scan# 534
Delta R.T. 0.17 min
Lab File: VF062532.D
Acq: 13 May 2019 6:12

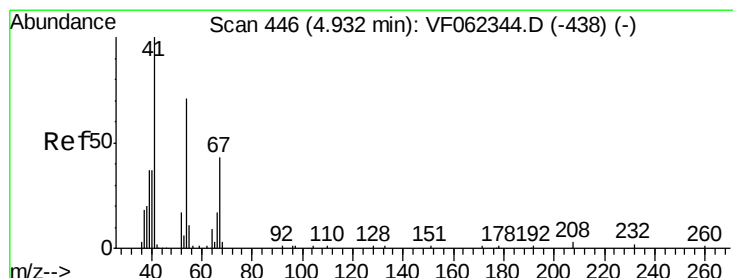
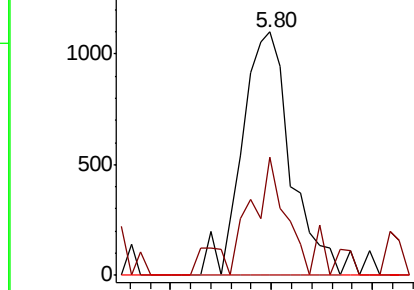
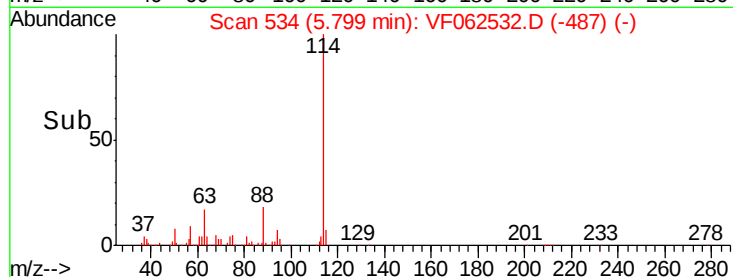
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-0612-01

Tot Ion: 83 Resp: 3679
Ion Ratio Lower Upper
83 100
55 48.7 69.0 103.6#
98 0.0 38.6 58.0#



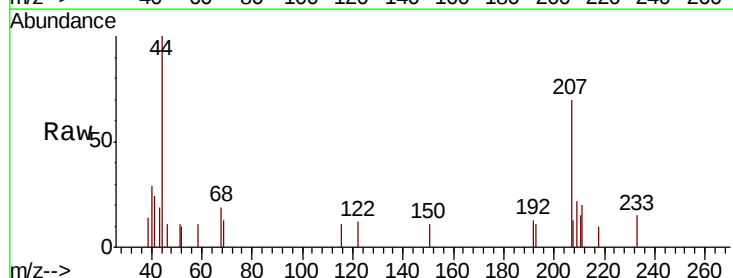
Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

5.80



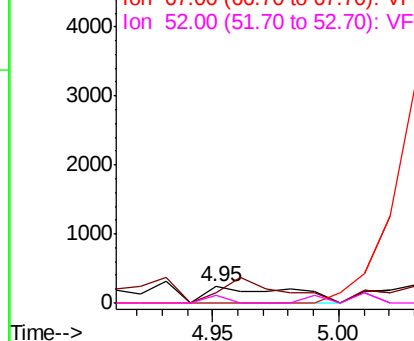
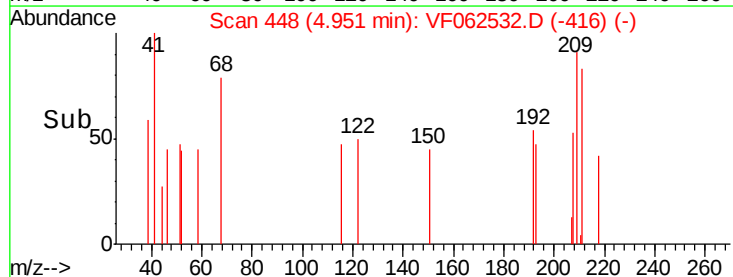
#41
Methacrylonitrile
Concen: 1.537 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.02 min
Lab File: VF062532.D
Acq: 13 May 2019 6:12

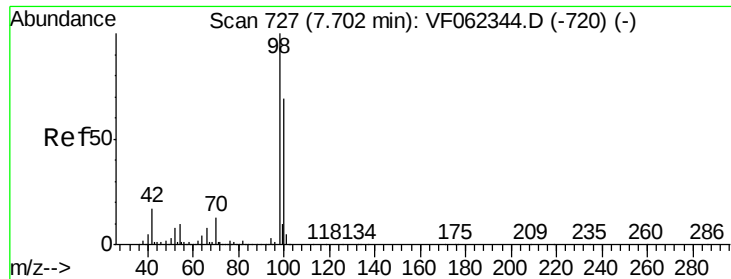
Tgt Ion: 41 Resp: 564
Ion Ratio Lower Upper
41 100
39 105.3 54.3 81.5#
67 0.0 37.8 56.8#
52 11.0 58.2 87.4#



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

4.95





#50

Toluene-d8

Concen: 39.573 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.03 min

Lab File: VF062532.D

Acq: 13 May 2019 6:12

Instrument :

MSVOA_F

ClientSampleId :

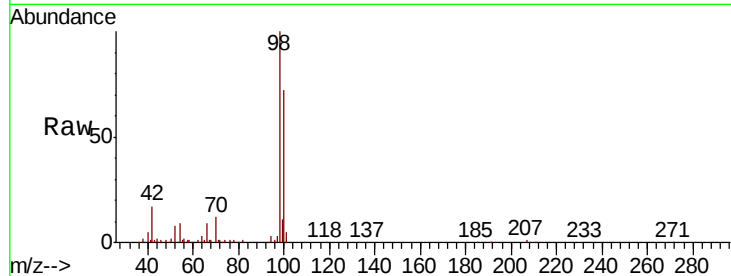
P026-SS013-0612-01

Tot Ion: 98 Resp: 135929

Ion Ratio Lower Upper

98 100

100 67.9 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

60000

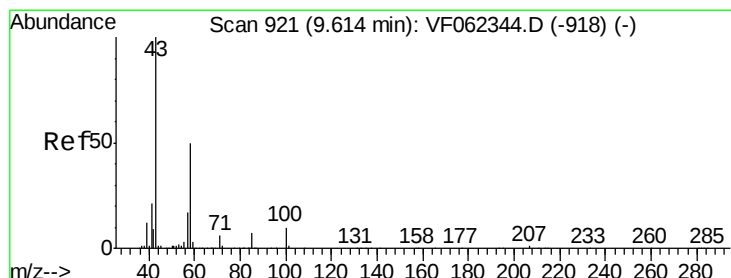
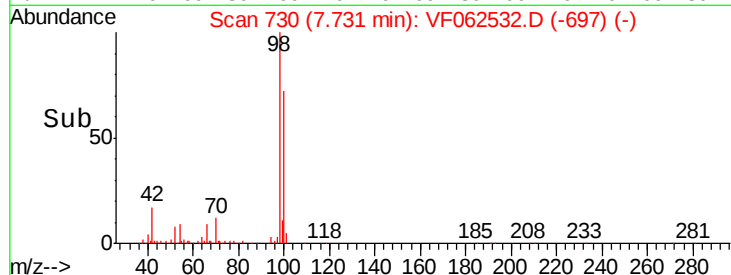
40000

20000

0

7.60 7.70 7.80 7.90

Time-->



#59

2-Hexanone

Concen: 2.975 ug/l

RT: 9.65 min Scan# 925

Delta R.T. 0.04 min

Lab File: VF062532.D

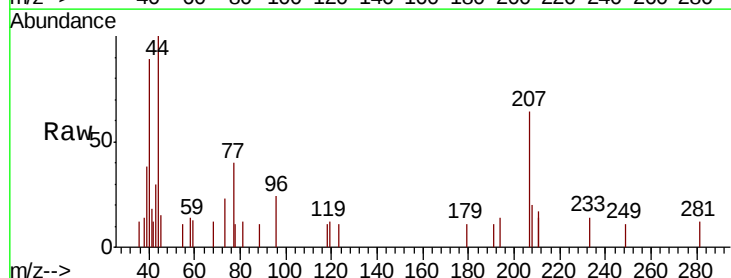
Acq: 13 May 2019 6:12

Tgt Ion: 43 Resp: 1085

Ion Ratio Lower Upper

43 100

58 7.5 24.3 73.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

400

300

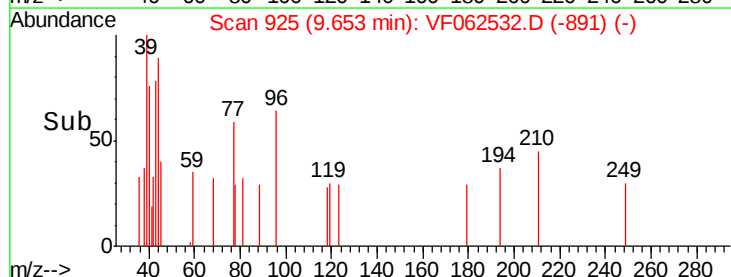
200

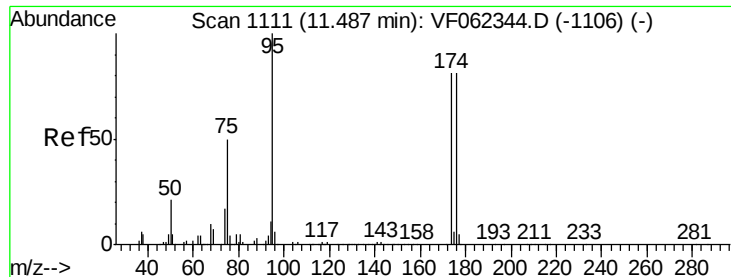
100

0

9.60 9.65 9.70 9.75

Time-->





#62

4-Bromofluorobenzene

Concen: 29.439 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062532.D

Acq: 13 May 2019 6:12

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-0612-01

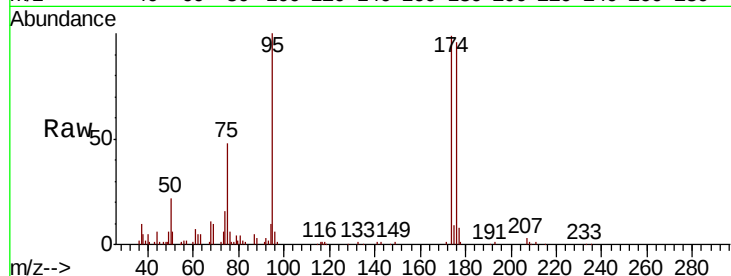
Tot Ion: 95 Resp: 45622

Ion Ratio Lower Upper

95 100

174 101.6 0.0 191.8

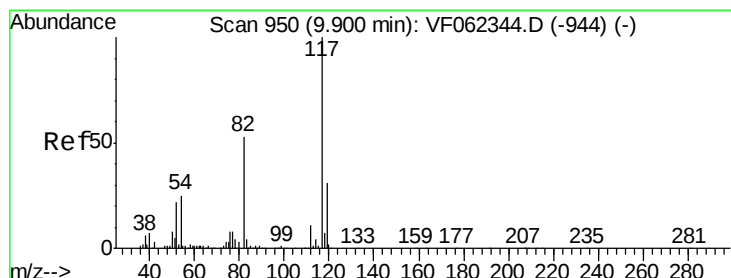
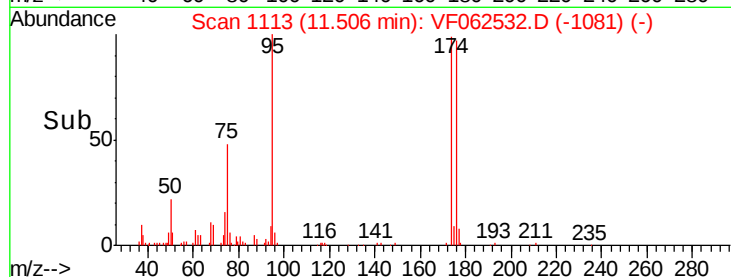
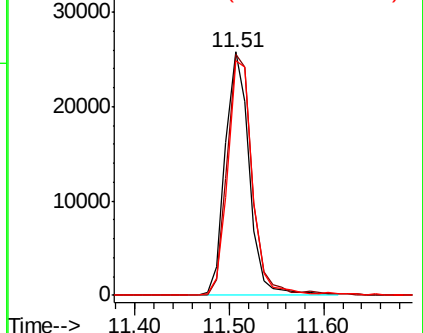
176 99.2 0.0 193.2



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: VF062532.D

Acq: 13 May 2019 6:12

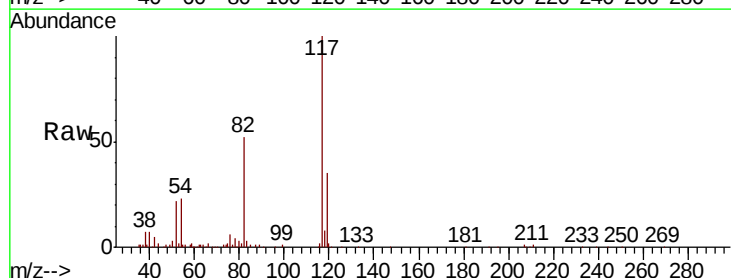
Tgt Ion: 117 Resp: 138502

Ion Ratio Lower Upper

117 100

82 52.3 42.2 63.2

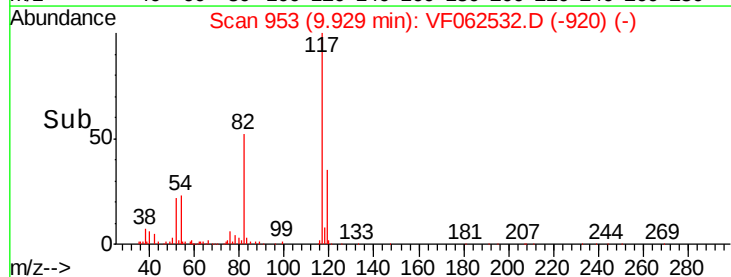
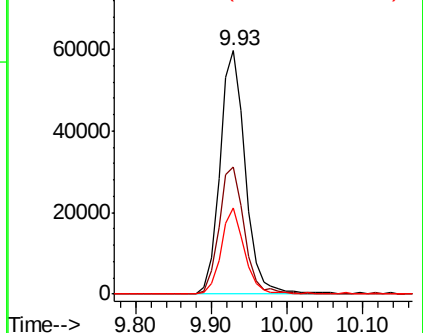
119 35.4 25.0 37.4

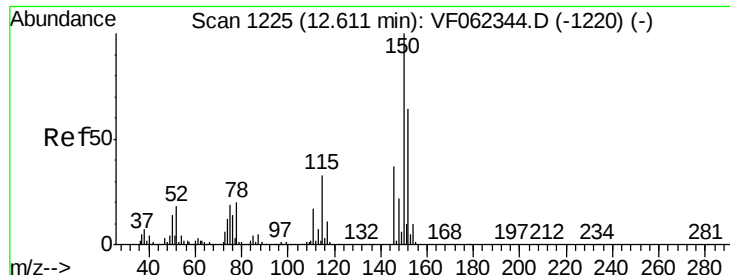


Abundance Ion 116.90 (116.60 to 117.60): V

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: VF062532.D

Acq: 13 May 2019 6:12

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-0612-01

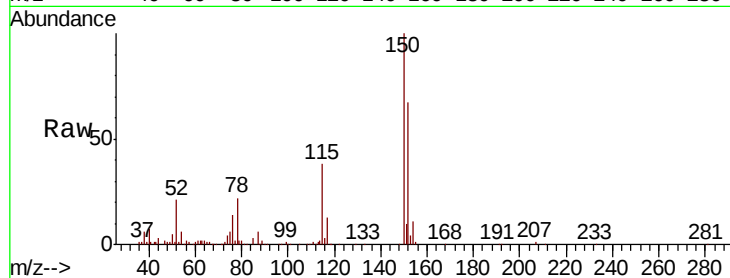
Tot Ion:152 Resp: 55345

Ion Ratio Lower Upper

152 100

115 55.8 26.4 79.2

150 155.3 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

