

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062535.D
 Acq On : 13 May 2019 7:35
 Operator : FY/SY
 Sample : K2734-16RE
 Misc : 4.73g/5mL/MSVOA F/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS014-0002-01RE

Quant Time: May 13 08:04:39 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	5.07	168	201585	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	259094	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	163668	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	45892	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	91716	48.14	ug/l	0.03
Spiked Amount			Recovery	=	96.28%	
35) Dibromofluoromethane	4.32	113	105733	51.22	ug/l	0.02
Spiked Amount			Recovery	=	102.44%	
50) Toluene-d8	7.73	98	174346	34.89	ug/l	0.03
Spiked Amount			Recovery	=	69.78%	
62) 4-Bromofluorobenzene	11.51	95	46213	20.50	ug/l	0.02
Spiked Amount			Recovery	=	41.00%	

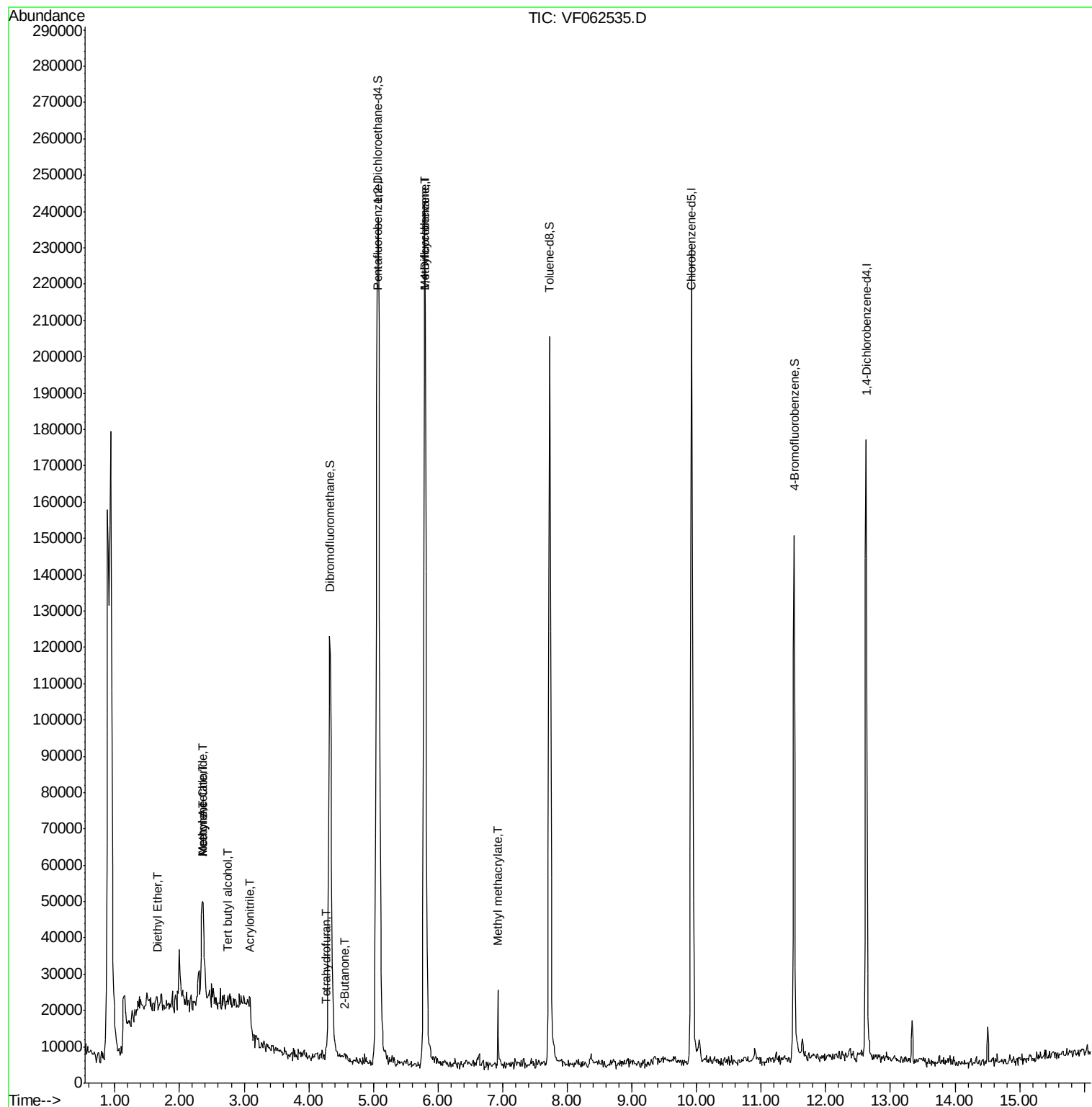
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.45	94	443	Below Cal	#	3
8) Diethyl Ether	1.64	74	921	1.911	ug/l	59
11) Tert butyl alcohol	2.75	59	470	4.365	ug/l #	1
13) Acrolein	2.10	56	882	Below Cal	#	82
15) Acrylonitrile	3.09	53	548	2.687	ug/l #	87
16) Acetone	2.36	43	64551	167.500	ug/l #	90
18) Methyl Acetate	2.36	43	64551	94.644	ug/l #	59
20) Methylene Chloride	2.35	84	2960	2.123	ug/l #	91
25) 2-Butanone	4.55	43	4555	9.408	ug/l #	35
29) Tetrahydrofuran	4.26	42	659	2.962	ug/l #	36
37) Ethyl Acetate	4.31	43	263	Below Cal	#	73
38) Carbon Tetrachloride	4.27	117	132	Below Cal	#	38
39) Methylcyclohexane	5.78	83	5268	2.360	ug/l #	28
48) Methyl methacrylate	6.92	41	1214	1.697	ug/l #	32
49) 1,4-Dioxane	6.93	88	63	Below Cal	#	1

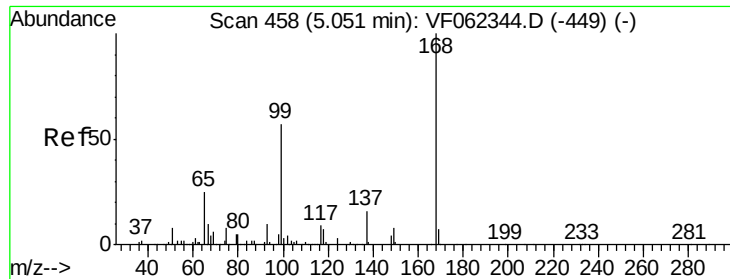
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062535.D

Acq: 13 May 2019 7:35

Instrument :

MSVOA_F

ClientSampleId :

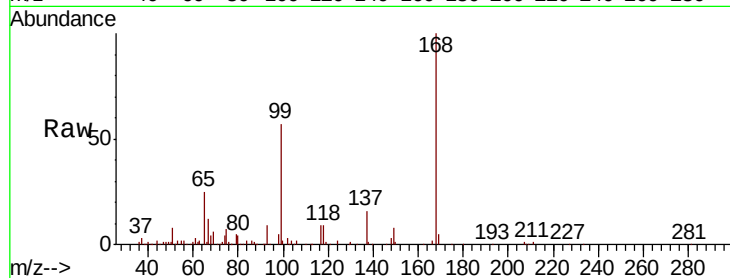
P026-SS014-0002-01RE

Tot Ion:168 Resp: 201585

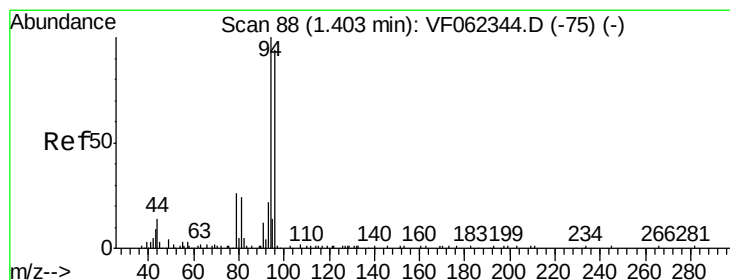
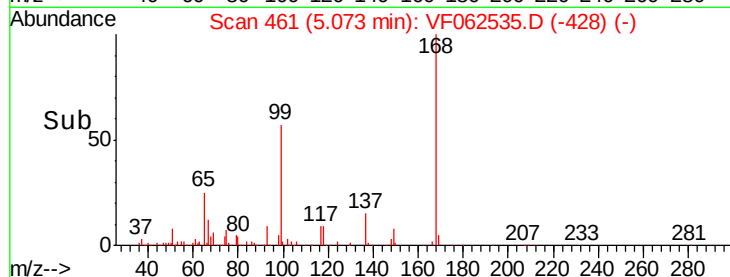
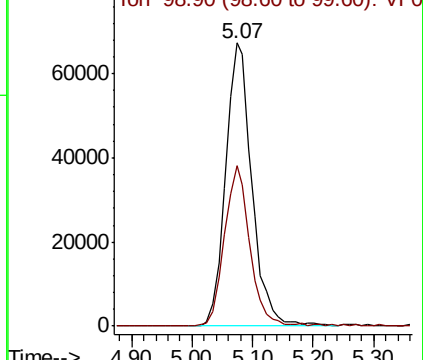
Ion Ratio Lower Upper

168 100

99 56.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.45 min Scan# 93

Delta R.T. 0.04 min

Lab File: VF062535.D

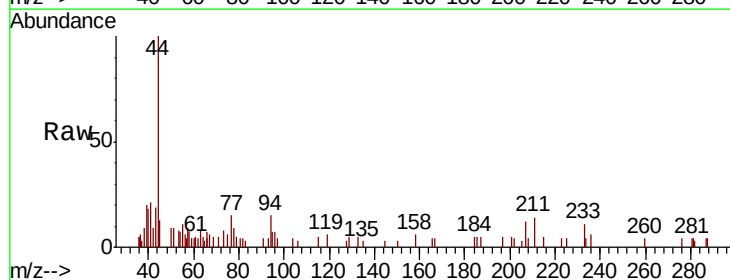
Acq: 13 May 2019 7:35

Tgt Ion: 94 Resp: 443

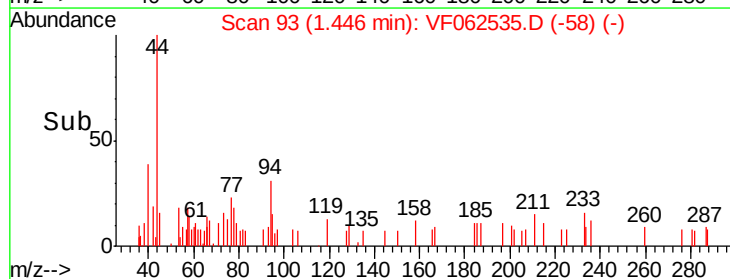
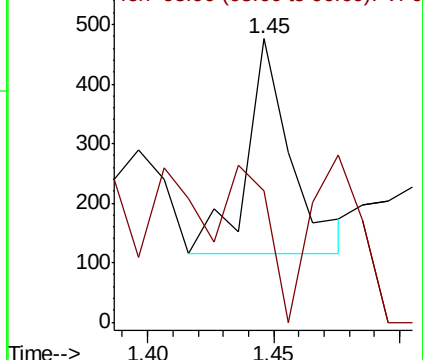
Ion Ratio Lower Upper

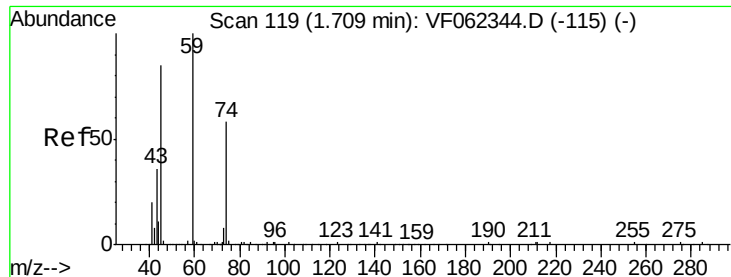
94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0





#8

Diethyl Ether

Concen: 1.911 ug/l

RT: 1.64 min Scan# 113

Delta R.T. -0.07 min

Lab File: VF062535.D

Acq: 13 May 2019 7:35

Instrument :

MSVOA_F

ClientSampleId :

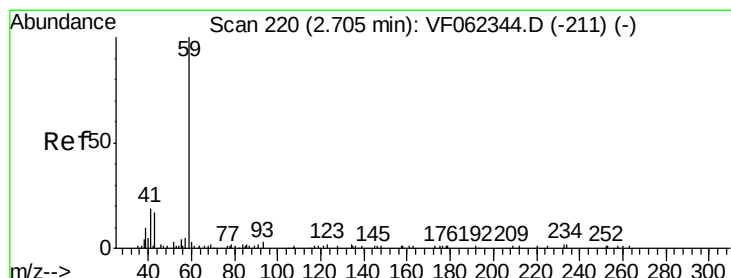
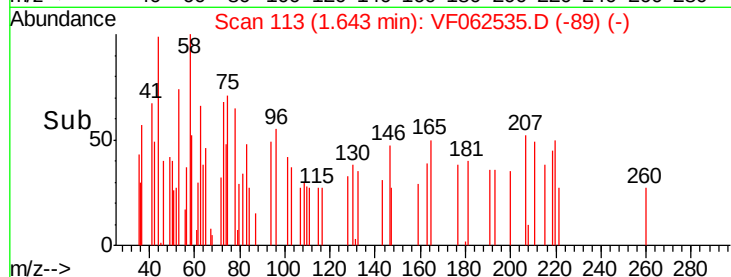
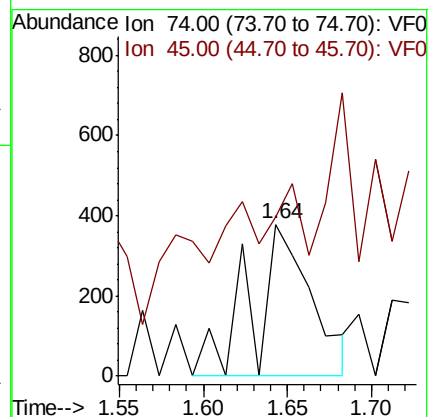
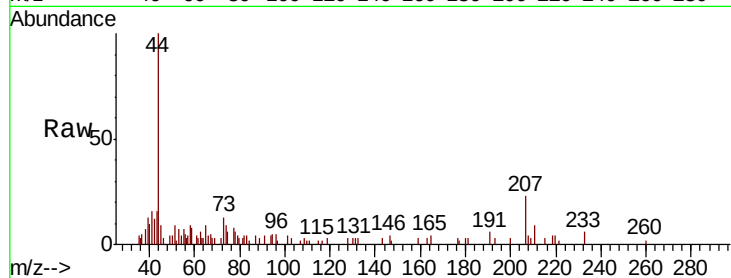
P026-SS014-0002-01RE

Tot Ion: 74 Resp: 921

Ion Ratio Lower Upper

74 100

45 96.6 73.9 221.6



#11

Tert butyl alcohol

Concen: 4.365 ug/l

RT: 2.75 min Scan# 225

Delta R.T. 0.04 min

Lab File: VF062535.D

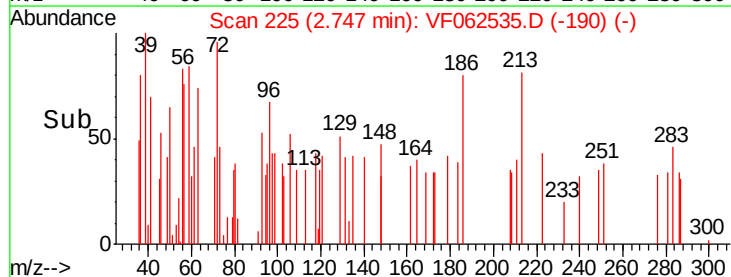
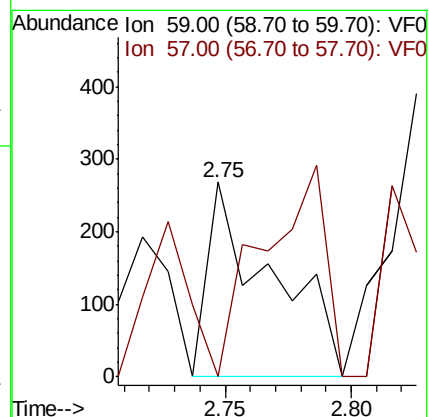
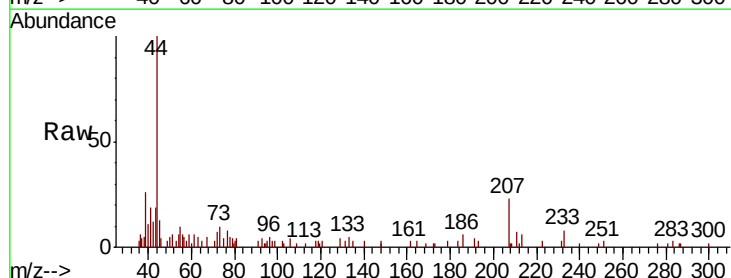
Acq: 13 May 2019 7:35

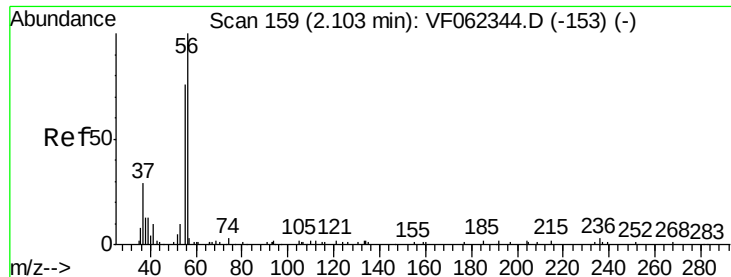
Tgt Ion: 59 Resp: 470

Ion Ratio Lower Upper

59 100

57 53.4 9.3 13.9#





#13

Acrolein

Concen: Below Cal

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062535.D

Acq: 13 May 2019 7:35

Instrument :

MSVOA_F

ClientSampleId :

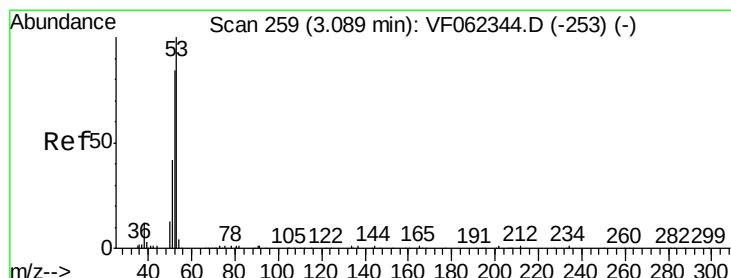
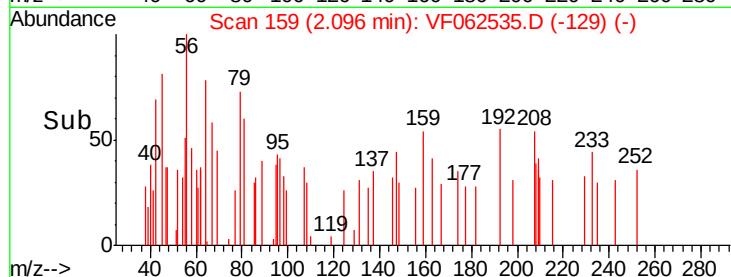
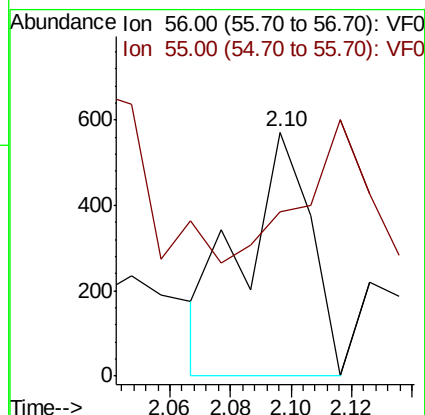
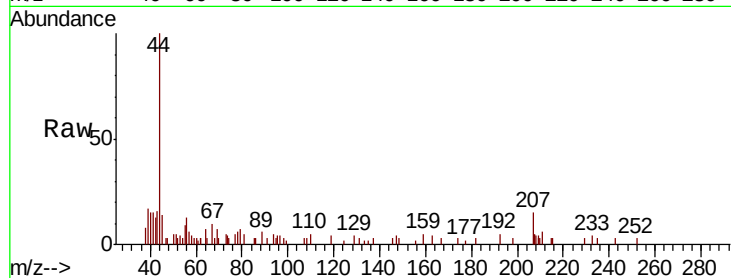
P026-SS014-0002-01RE

Tot Ion: 56 Resp: 882

Ion Ratio Lower Upper

56 100

55 88.2 58.4 87.6#



#15

Acrylonitrile

Concen: 2.687 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062535.D

Acq: 13 May 2019 7:35

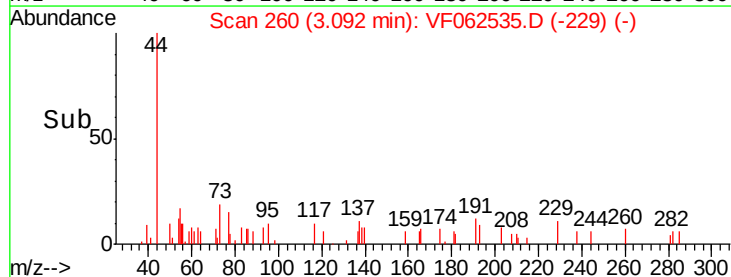
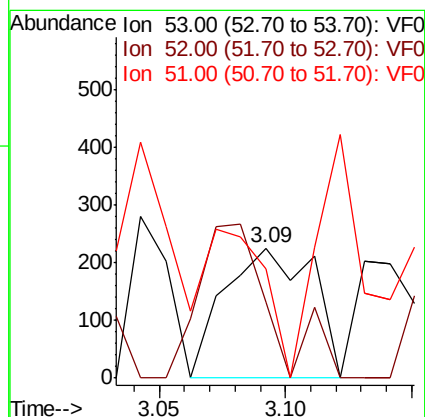
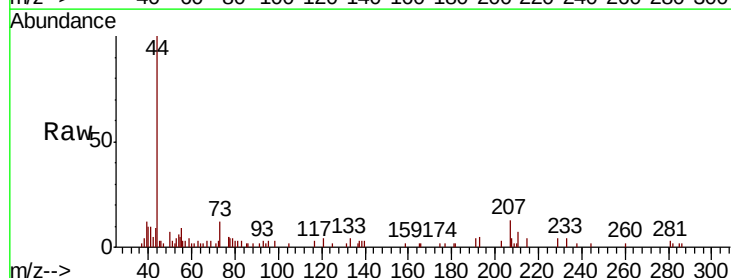
Tgt Ion: 53 Resp: 548

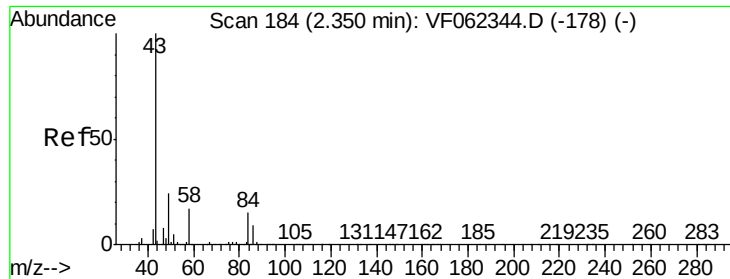
Ion Ratio Lower Upper

53 100

52 95.4 77.2 115.8

51 74.6 40.6 61.0#





#16

Acetone

Concen: 167.500 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062535.D

Acq: 13 May 2019 7:35

Instrument :

MSVOA_F

ClientSampleId :

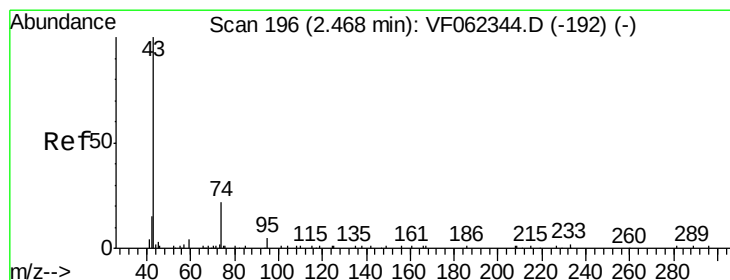
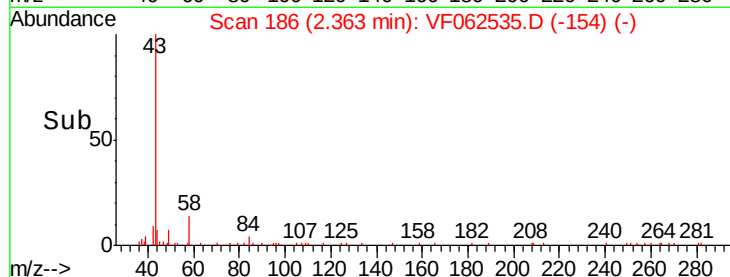
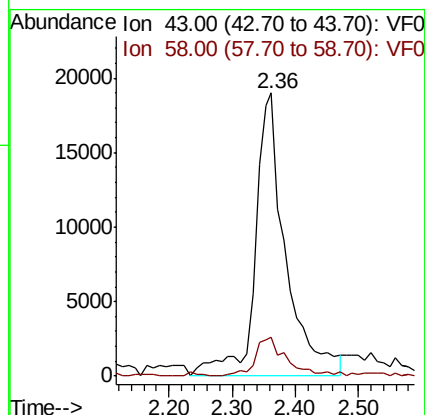
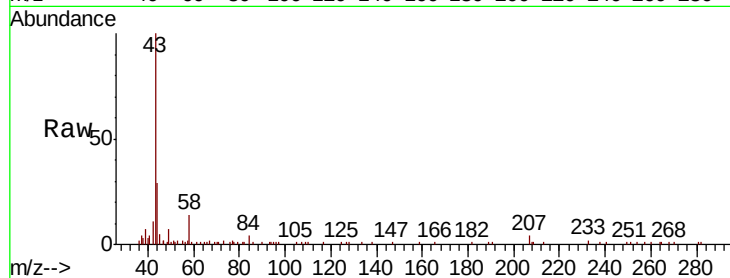
P026-SS014-0002-01RE

Tot Ion: 43 Resp: 64551

Ion Ratio Lower Upper

43 100

58 12.2 13.1 19.7#



#18

Methyl Acetate

Concen: 94.644 ug/l

RT: 2.36 min Scan# 186

Delta R.T. -0.11 min

Lab File: VF062535.D

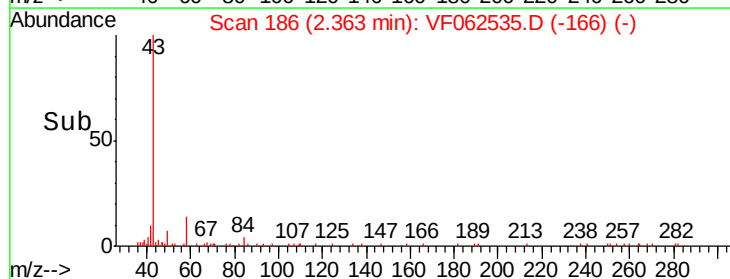
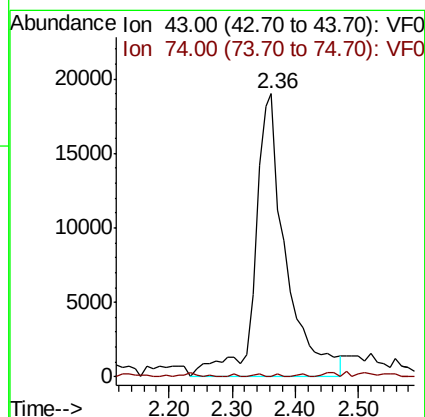
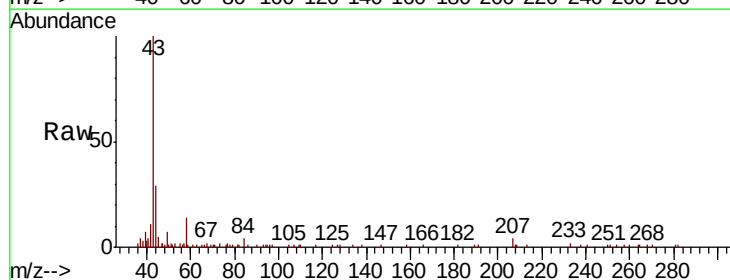
Acq: 13 May 2019 7:35

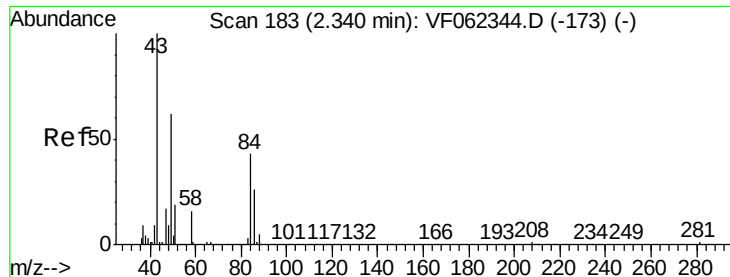
Tgt Ion: 43 Resp: 64551

Ion Ratio Lower Upper

43 100

74 0.2 15.0 22.4#

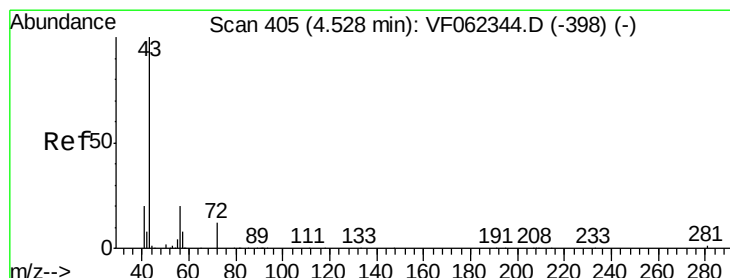
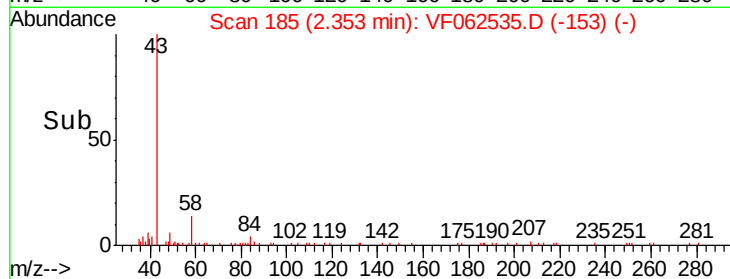
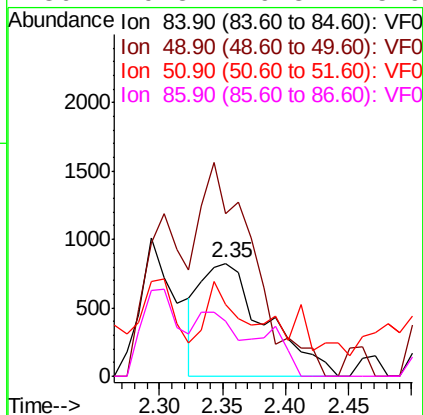
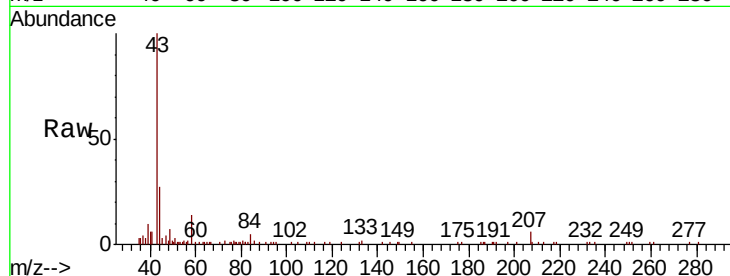




#20
Methylene Chloride
Concen: 2.123 ug/l
RT: 2.35 min Scan# 185
Delta R.T. 0.01 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

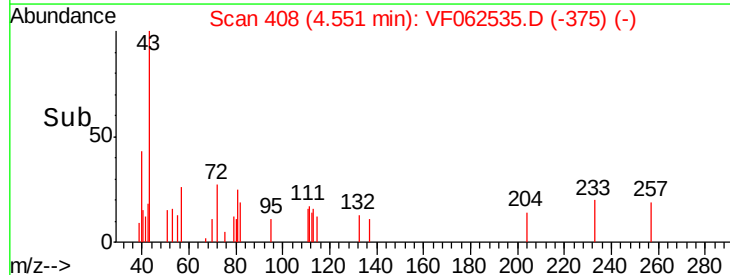
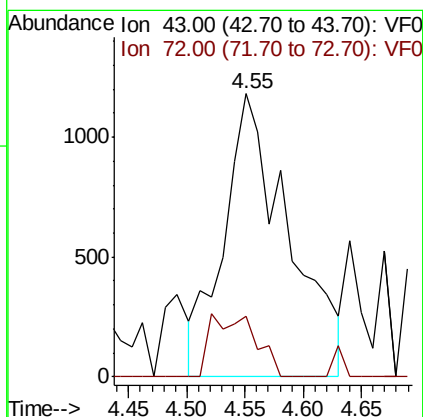
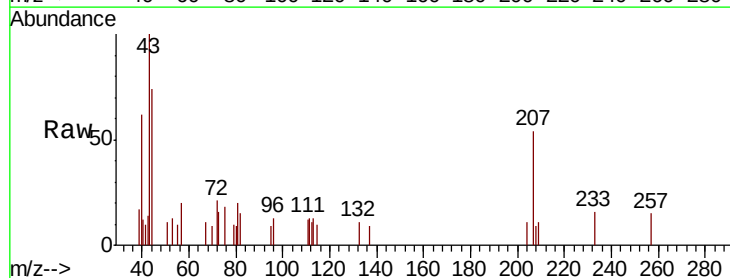
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0002-01RE

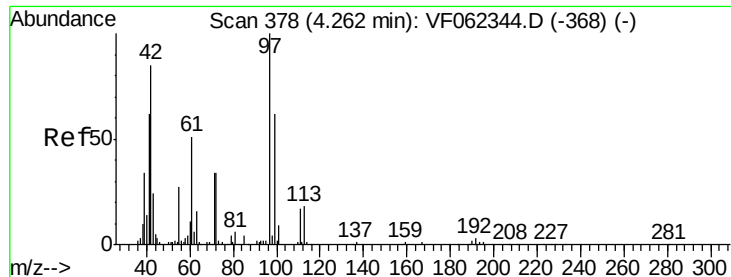
Tot Ion:	84	Resp:	2960
Ion	Ratio	Lower	Upper
84	100		
49	143.6	117.5	176.3
51	34.5	37.0	55.4#
86	49.3	49.3	73.9



#25
2-Butanone
Concen: 9.408 ug/l
RT: 4.55 min Scan# 408
Delta R.T. 0.02 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

Tgt Ion:	43	Resp:	4555
Ion	Ratio	Lower	Upper
43	100		
72	46.5	14.2	21.4#

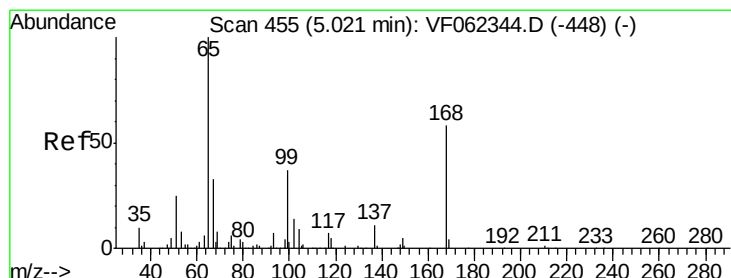
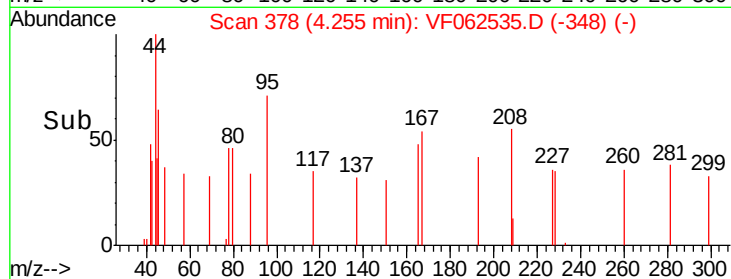
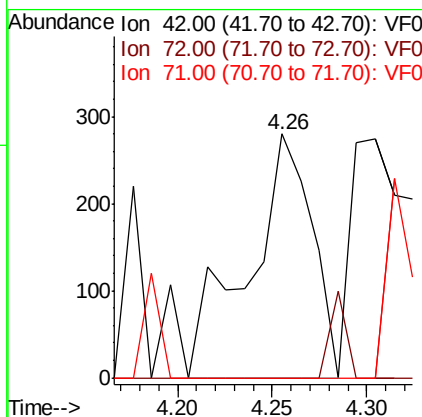
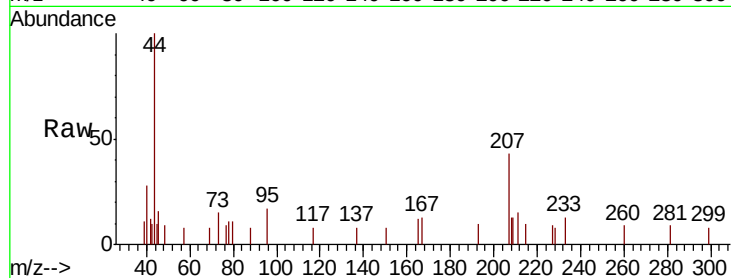




#29
Tetrahydrofuran
Concen: 2.962 ug/l
RT: 4.26 min Scan# 378
Delta R.T. -0.01 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

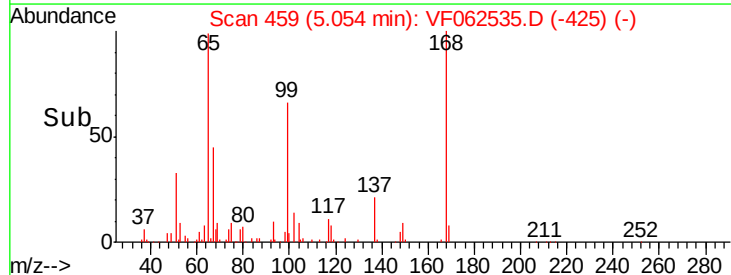
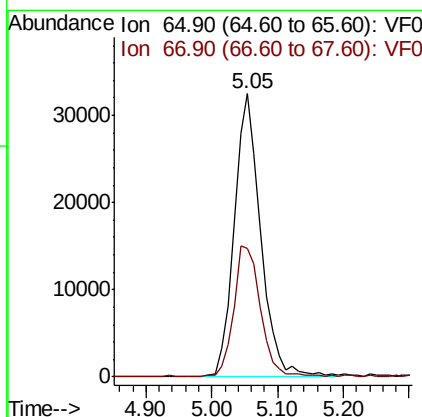
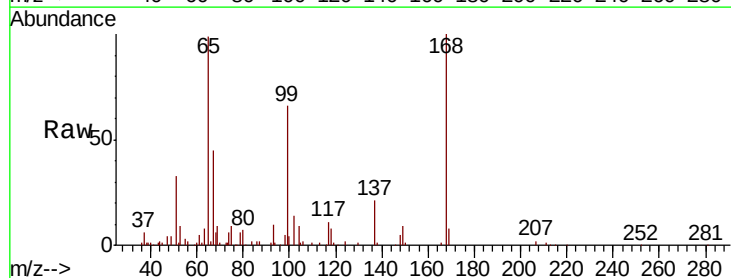
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0002-01RE

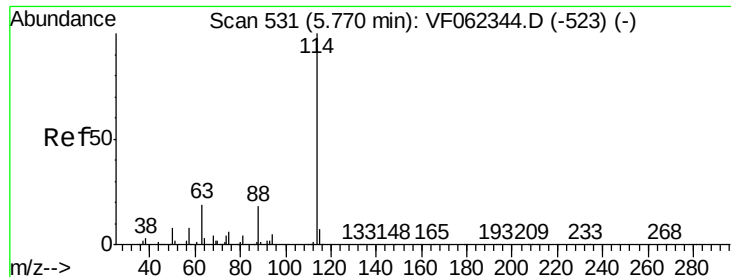
Tot Ion: 42 Resp: 659
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 31.7 47.5#



#33
1,2-Dichloroethane-d4
Concen: 48.143 ug/l
RT: 5.05 min Scan# 459
Delta R.T. 0.03 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

Tgt Ion: 65 Resp: 91716
Ion Ratio Lower Upper
65 100
67 46.9 0.0 85.8

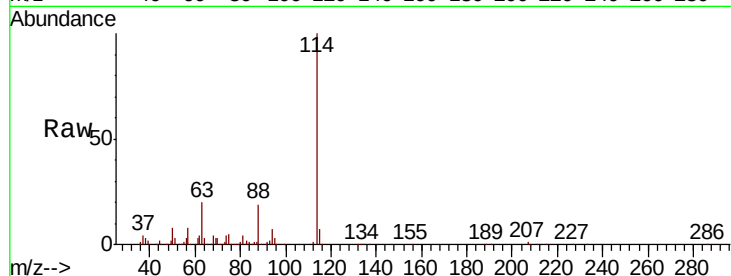




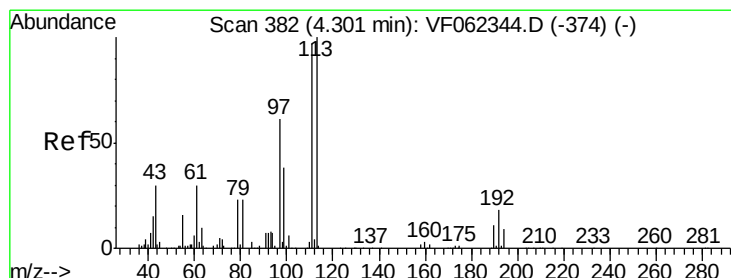
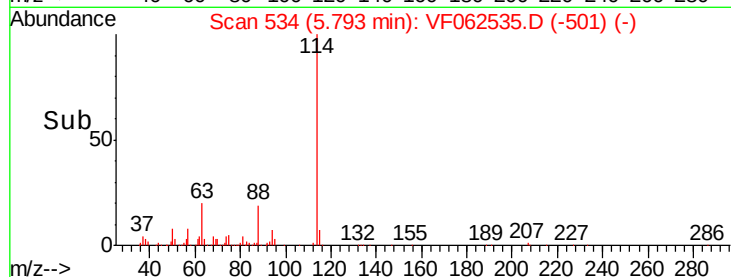
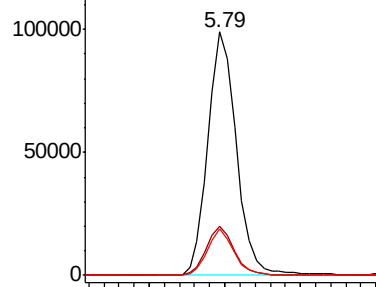
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.79 min Scan# 534
Delta R.T. 0.02 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0002-01RE

Tot Ion:	114	Resp:	259094
Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	37.4
88	18.9	0.0	36.4

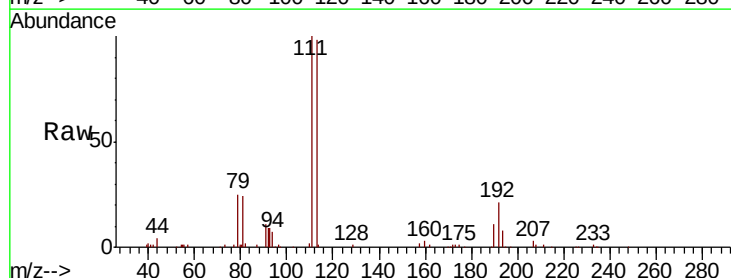


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 87.90 (87.60 to 88.60): VF0

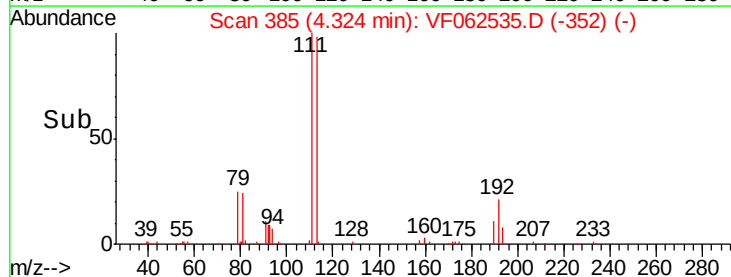
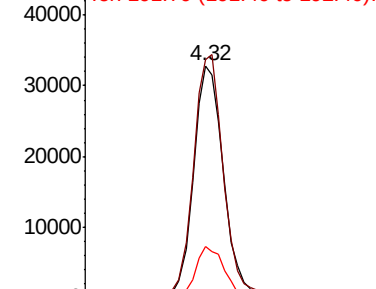


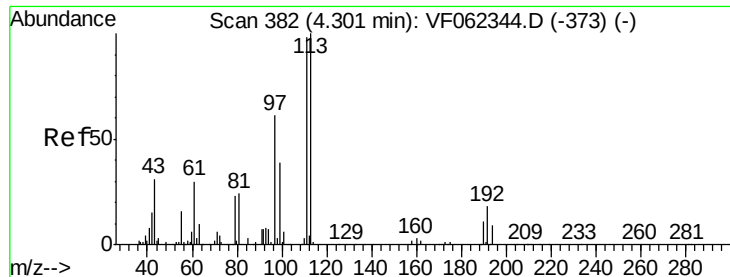
#35
Dibromofluoromethane
Concen: 51.223 ug/l
RT: 4.32 min Scan# 385
Delta R.T. 0.02 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

Tgt Ion:	113	Resp:	105733
Ion	Ratio	Lower	Upper
113	100		
111	104.6	79.4	119.0
192	21.9	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: 4.31 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF062535.D

Acq: 13 May 2019 7:35

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0002-01RE

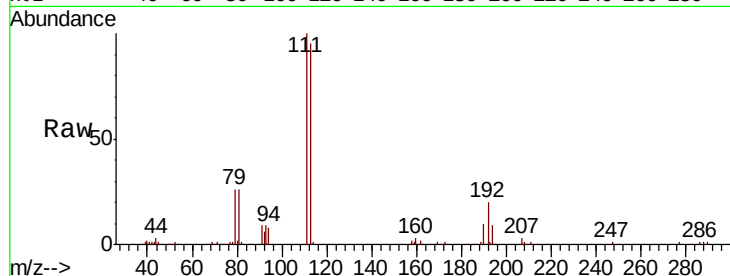
Tot Ion: 43 Resp: 263

Ion Ratio Lower Upper

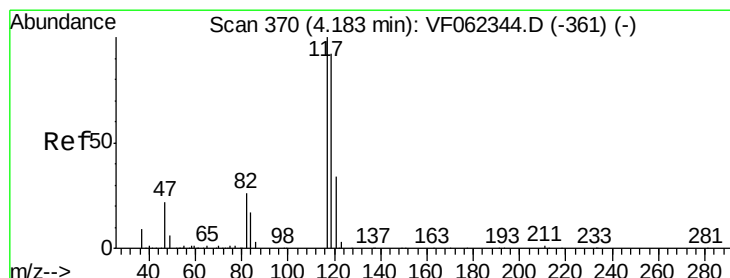
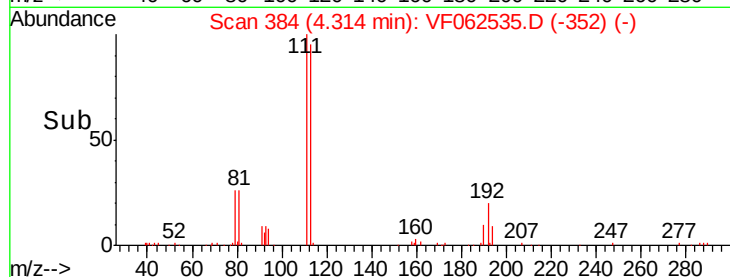
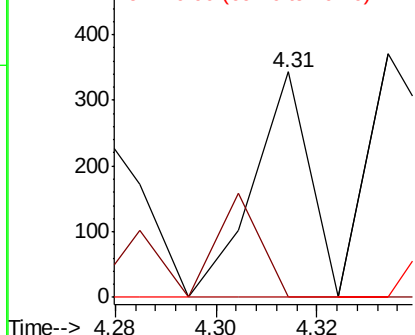
43 100

61 58.6 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: 4.27 min Scan# 379

Delta R.T. 0.08 min

Lab File: VF062535.D

Acq: 13 May 2019 7:35

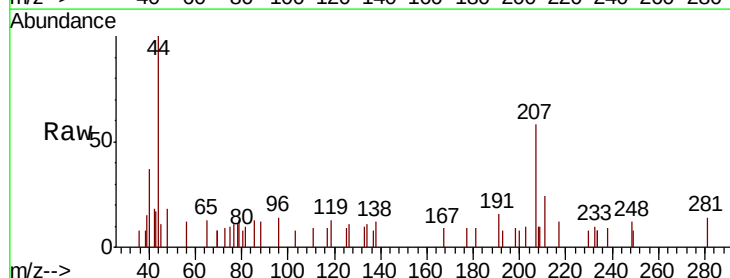
Tgt Ion: 117 Resp: 132

Ion Ratio Lower Upper

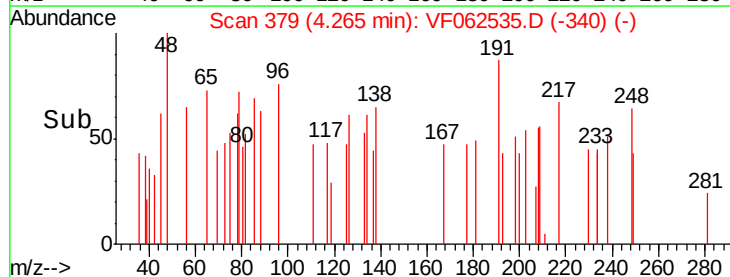
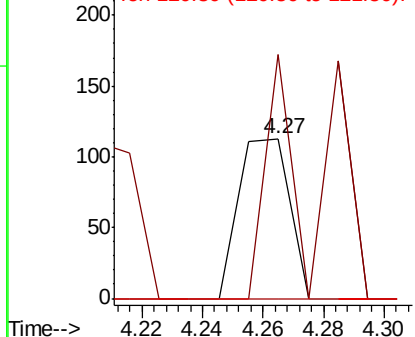
117 100

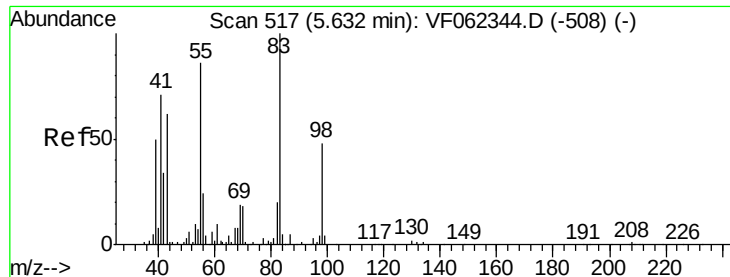
119 152.2 73.4 110.2#

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

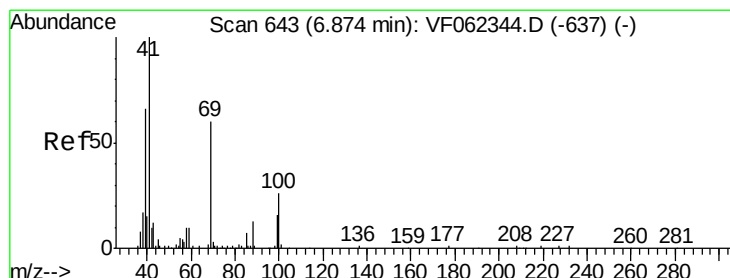
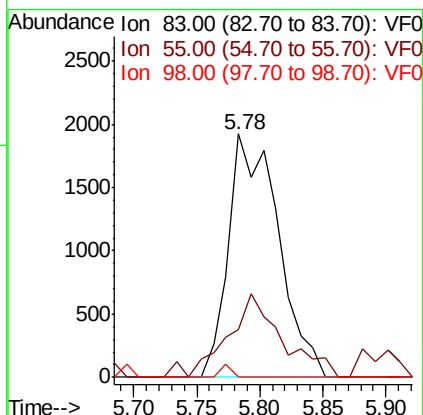
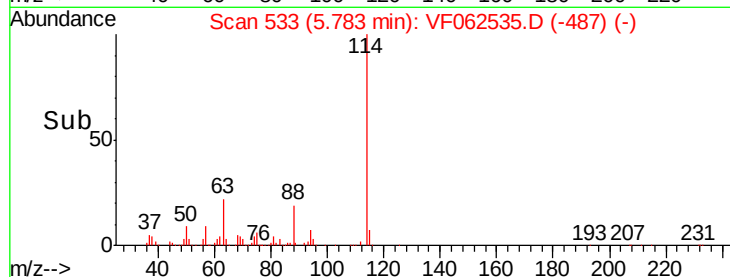
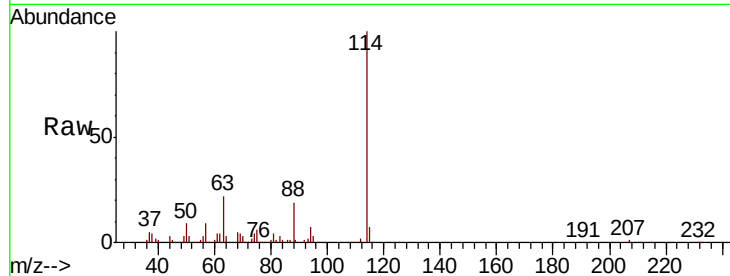




#39
Methylcyclohexane
Concen: 2.360 ug/l
RT: 5.78 min Scan# 533
Delta R.T. 0.15 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

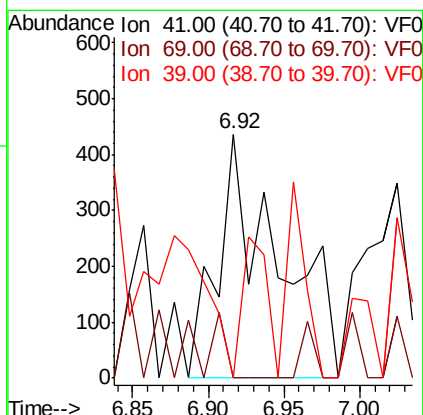
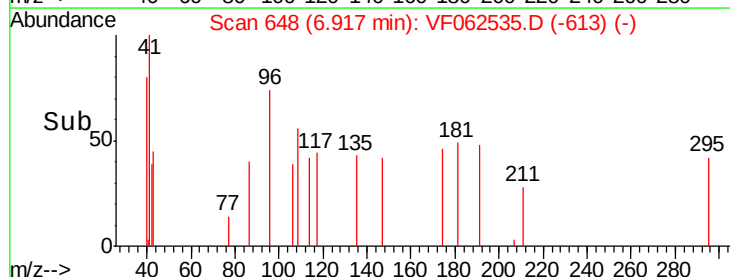
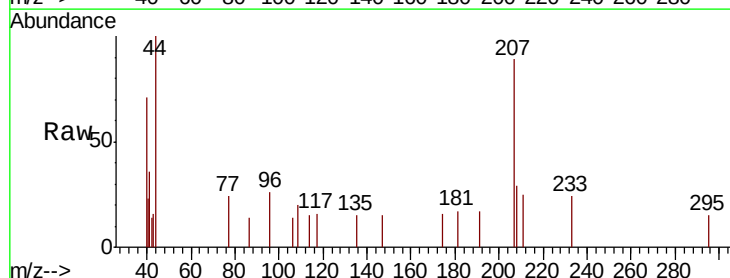
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0002-01RE

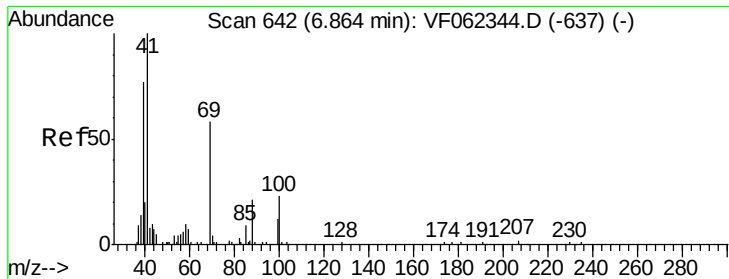
Tot Ion: 83 Resp: 5268
Ion Ratio Lower Upper
83 100
55 19.5 69.0 103.6#
98 0.0 38.6 58.0#



#48
Methyl methacrylate
Concen: 1.697 ug/l
RT: 6.92 min Scan# 648
Delta R.T. 0.04 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

Tgt Ion: 41 Resp: 1214
Ion Ratio Lower Upper
41 100
69 0.0 48.6 72.8#
39 23.1 56.1 84.1#





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.93 min Scan# 649

Delta R.T. 0.06 min

Lab File: VF062535.D

Acq: 13 May 2019 7:35

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0002-01RE

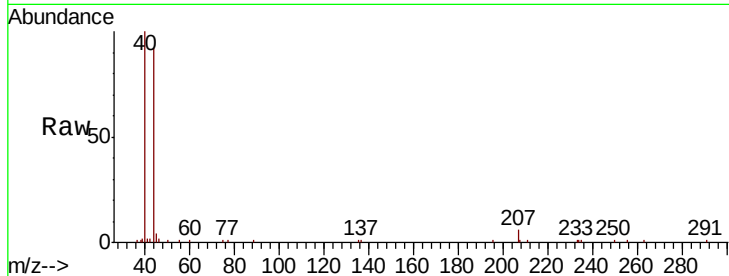
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 239.7 55.6 83.4#

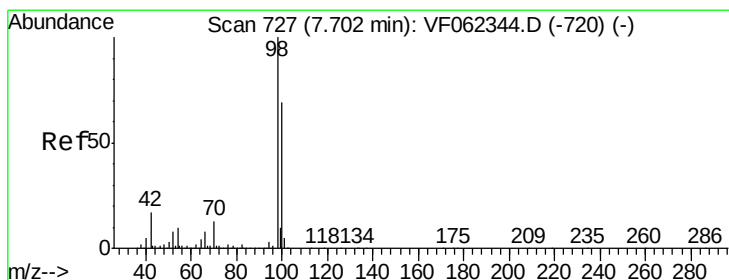
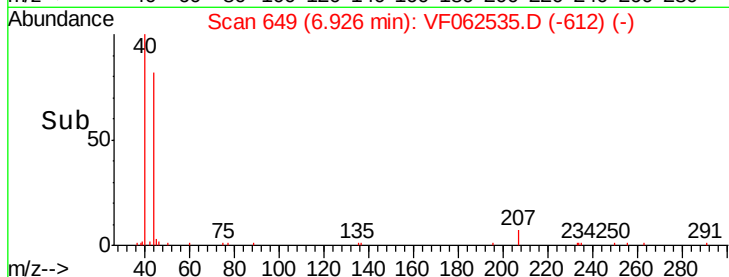
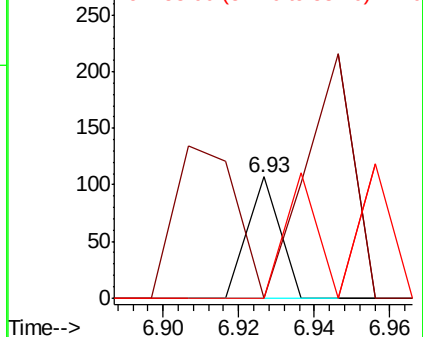
58 0.0 52.8 79.2#



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: 34.893 ug/l

RT: 7.73 min Scan# 731

Delta R.T. 0.03 min

Lab File: VF062535.D

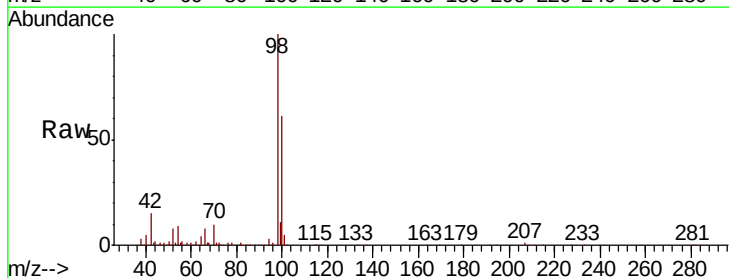
Acq: 13 May 2019 7:35

Tgt Ion: 98 Resp: 174346

Ion Ratio Lower Upper

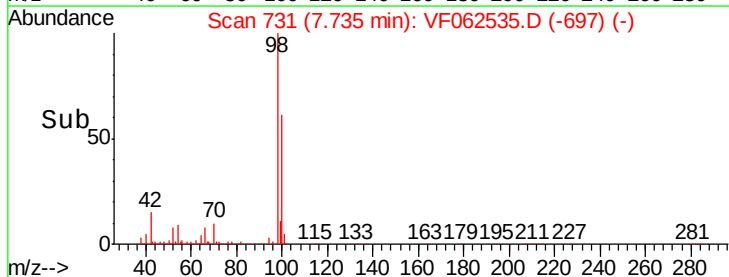
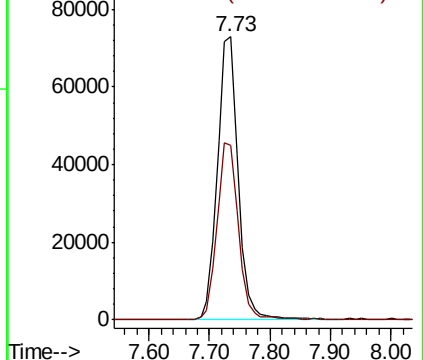
98 100

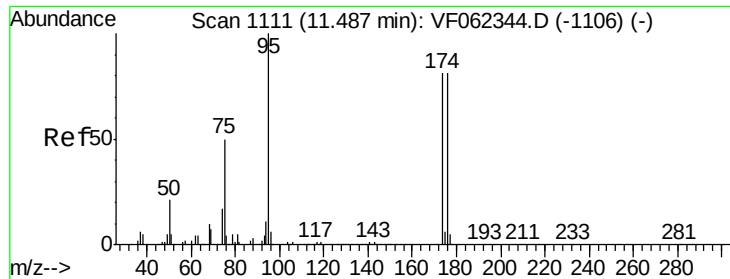
100 64.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

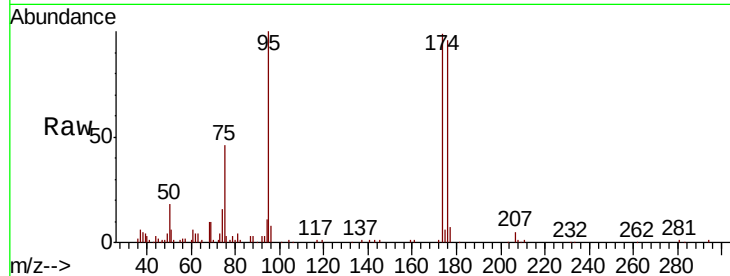




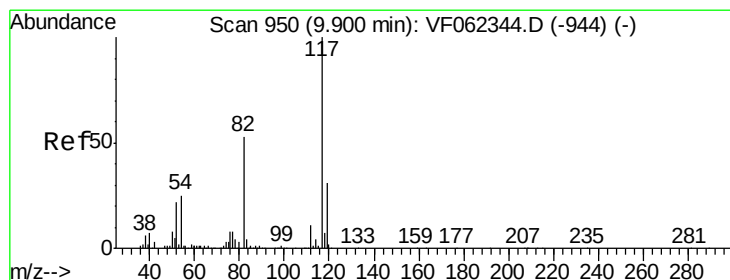
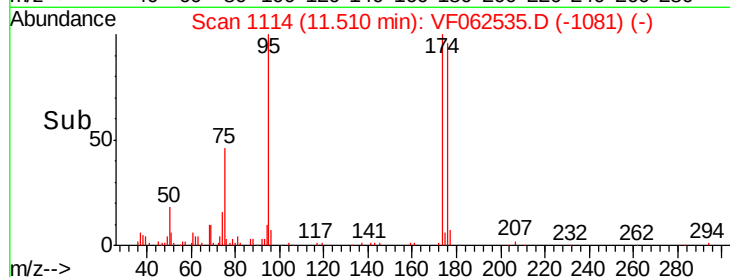
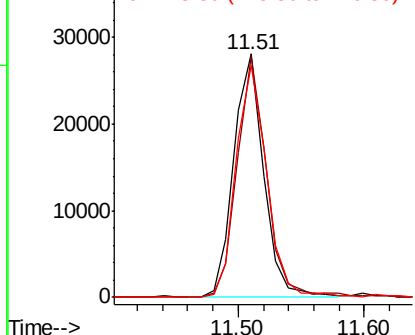
#62
4-Bromofluorobenzene
Concen: 20.500 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0002-01RE

Tot Ion	Ratio	Lower	Upper
95	100		
174	97.8	0.0	191.8
176	97.8	0.0	193.2

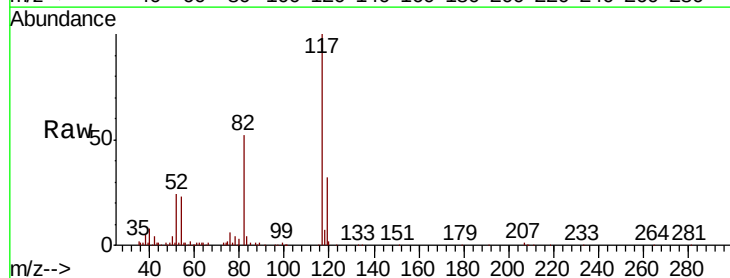


Abundance Ion 94.90 (94.60 to 95.60): VF0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

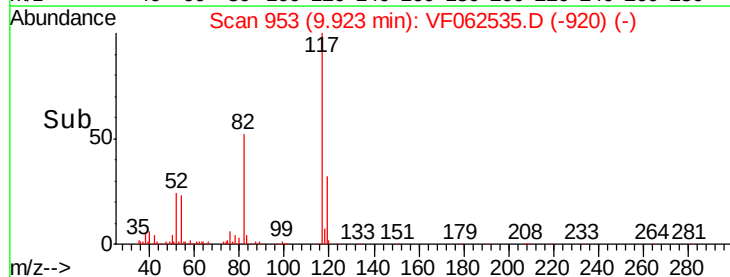
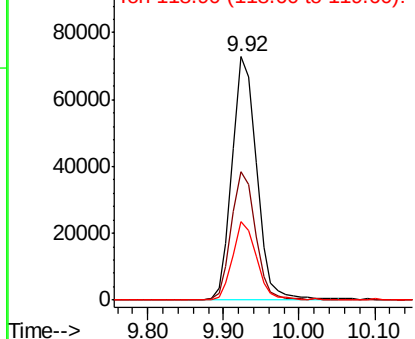


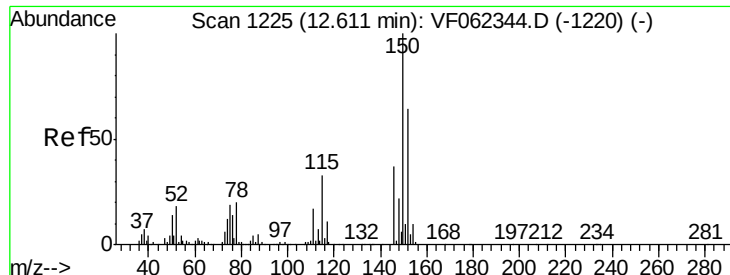
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 953
Delta R.T. 0.02 min
Lab File: VF062535.D
Acq: 13 May 2019 7:35

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.5	42.2	63.2
119	32.5	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# 1227

Delta R.T. 0.01 min

Lab File: VF062535.D

Acq: 13 May 2019 7:35

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0002-01RE

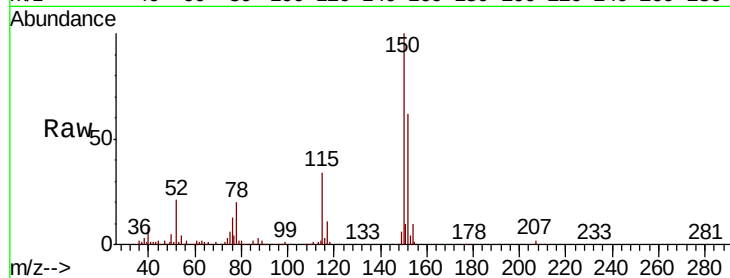
Tot Ion:152 Resp: 45892

Ion Ratio Lower Upper

152 100

115 56.8 26.4 79.2

150 158.0 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

