

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062565.D
 Acq On : 14 May 2019 3:35
 Operator : FY/SY
 Sample : K2756-13
 Misc : 6.15g/5mL/MSVOA F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS007-0612-01

Quant Time: May 14 07:07:26 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	302658	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	403344	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	283628	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	125980	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	120249	42.04	ug/l	0.03
Spiked Amount			Recovery	=	84.08%	
35) Dibromofluoromethane	4.33	113	146907	45.72	ug/l	0.03
Spiked Amount			Recovery	=	91.44%	
50) Toluene-d8	7.74	98	294557	37.87	ug/l	0.03
Spiked Amount			Recovery	=	75.74%	
62) 4-Bromofluorobenzene	11.51	95	102578	29.23	ug/l	0.02
Spiked Amount			Recovery	=	58.46%	

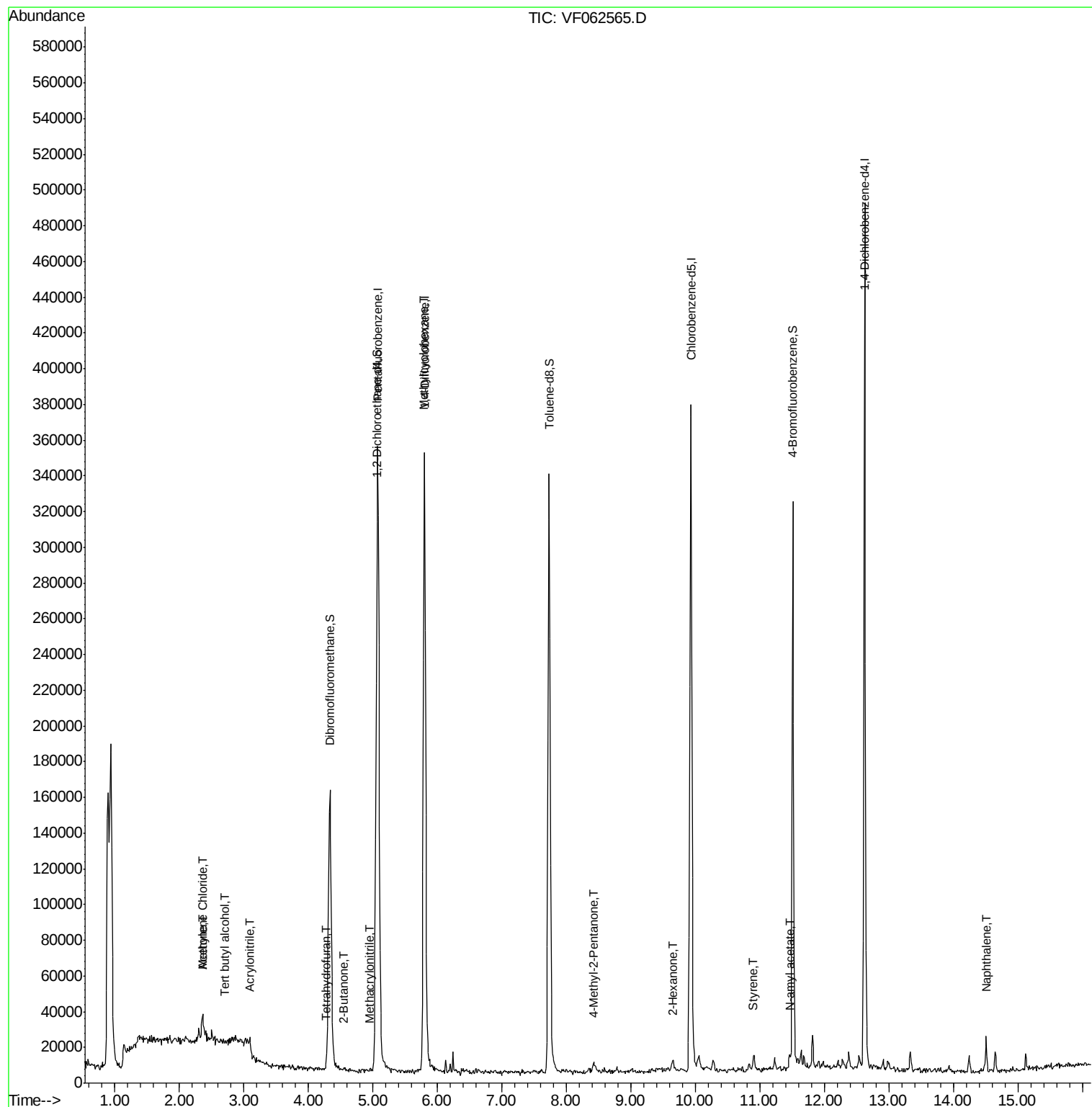
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.40	94	545	Below Cal	#	19
11) Tert butyl alcohol	2.71	59	666	4.120	ug/l #	1
13) Acrolein	2.11	56	269	Below Cal	#	1
15) Acrylonitrile	3.08	53	419	1.368	ug/l #	71
16) Acetone	2.36	43	23896	41.299	ug/l	98
18) Methyl Acetate	2.57	43	2239	Below Cal	#	58
20) Methylene Chloride	2.35	84	4120	1.968	ug/l #	80
25) 2-Butanone	4.55	43	1411	1.941	ug/l #	76
29) Tetrahydrofuran	4.27	42	500	1.497	ug/l #	49
37) Ethyl Acetate	4.32	43	326	Below Cal	#	73
38) Carbon Tetrachloride	4.16	117	60	Below Cal	#	14
39) Methylcyclohexane	5.78	83	5854	1.685	ug/l #	39
41) Methacrylonitrile	4.97	41	1461	1.759	ug/l #	28
49) 1,4-Dioxane	6.88	88	77	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.43	43	5101	4.271	ug/l	100
59) 2-Hexanone	9.66	43	6235	7.549	ug/l	94
70) Styrene	10.91	104	4913	1.001	ug/l	91
74) N-amyl acetate	11.46	43	5723	3.569	ug/l #	62
95) Naphthalene	14.51	128	12354	2.644	ug/l	98

(#) = 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# 462

Delta R.T. 0.03 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

Instrument :

MSVOA_F

ClientSampleId :

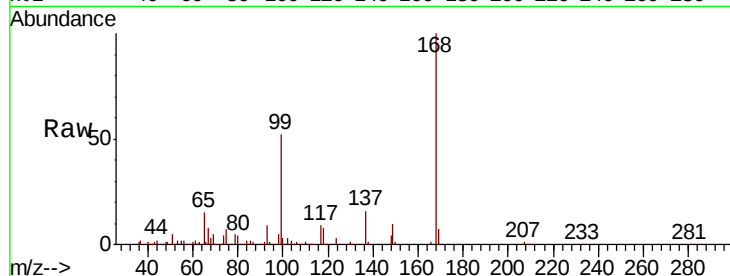
P021-SS007-0612-01

Tot Ion:168 Resp: 302658

Ion Ratio Lower Upper

168 100

99 52.4 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

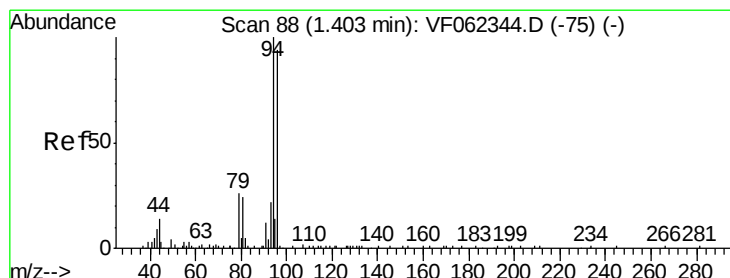
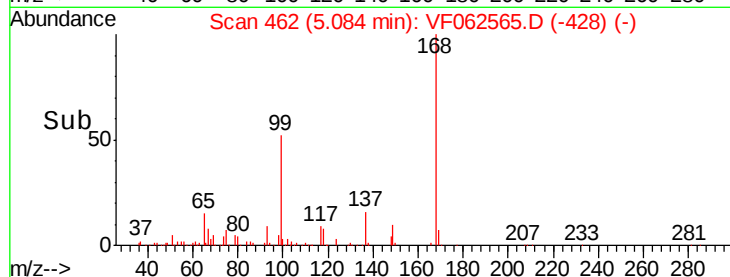
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.40 min Scan# 88

Delta R.T. -0.01 min

Lab File: VF062565.D

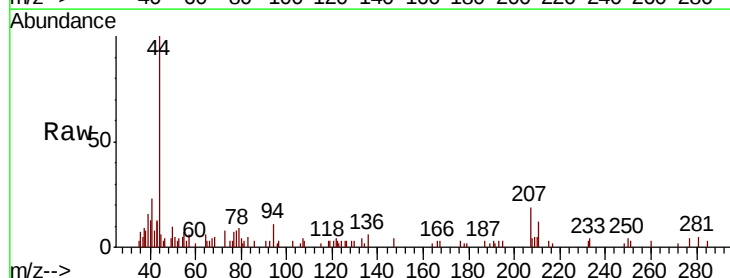
Acq: 14 May 2019 3:35

Tgt Ion: 94 Resp: 545

Ion Ratio Lower Upper

94 100

96 15.6 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.40

600

500

400

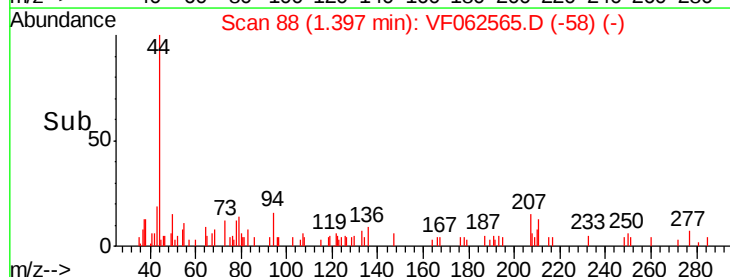
300

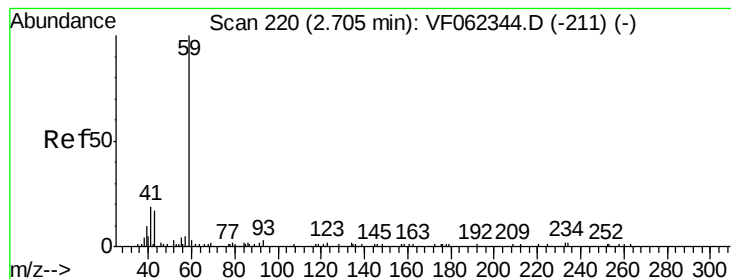
200

100

0

Time-->



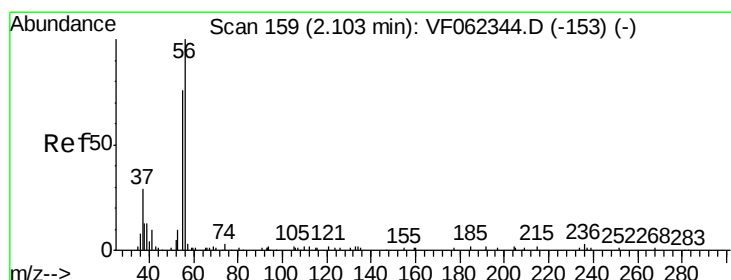
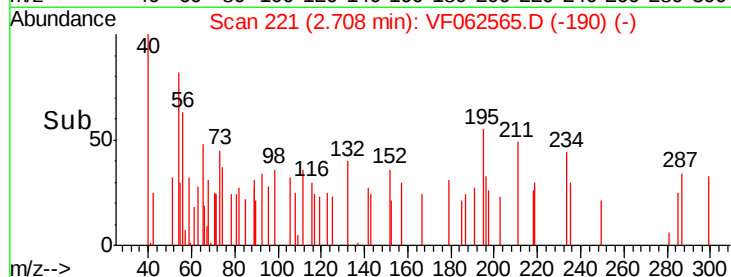
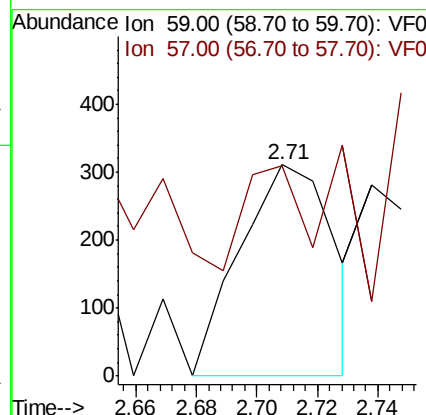
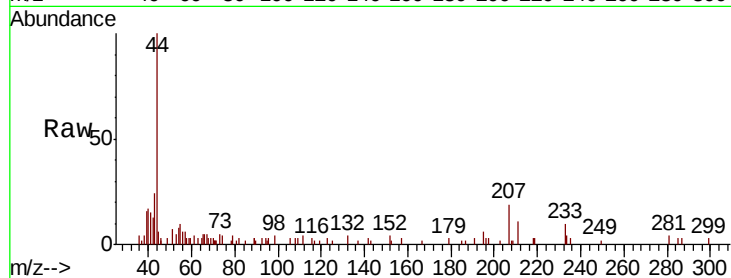


#11

Tert butyl alcohol
 Concen: 4.120 ug/l
 RT: 2.71 min Scan# 221
 Delta R.T. 0.00 min
 Lab File: VF062565.D
 Acq: 14 May 2019 3:35

Instrument :
 MSVOA_F
 ClientSampleId :
 P021-SS007-0612-01

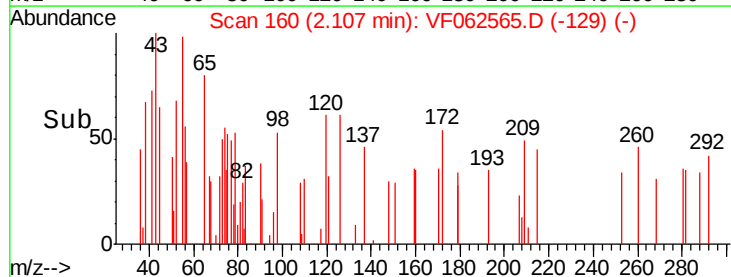
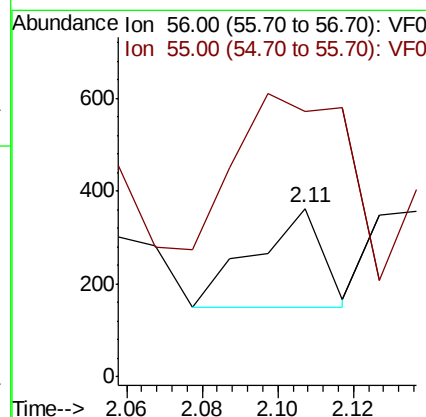
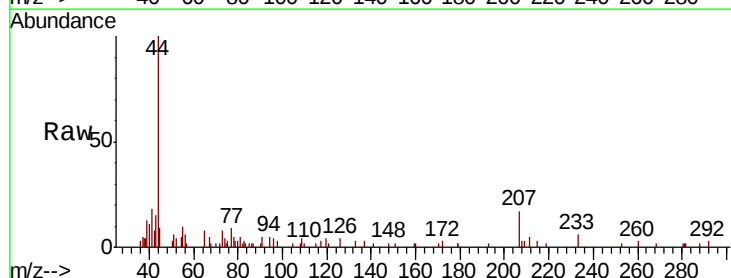
Tot Ion: 59 Resp: 666
 Ion Ratio Lower Upper
 59 100
 57 70.6 9.3 13.9#



#13

Acrolein
 Concen: Below Cal
 RT: 2.11 min Scan# 160
 Delta R.T. 0.00 min
 Lab File: VF062565.D
 Acq: 14 May 2019 3:35

Tgt Ion: 56 Resp: 269
 Ion Ratio Lower Upper
 56 100
 55 303.3 58.4 87.6#





#15

Acrylonitrile

Concen: 1.368 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

Instrument :

MSVOA_F

ClientSampleId :

P021-SS007-0612-01

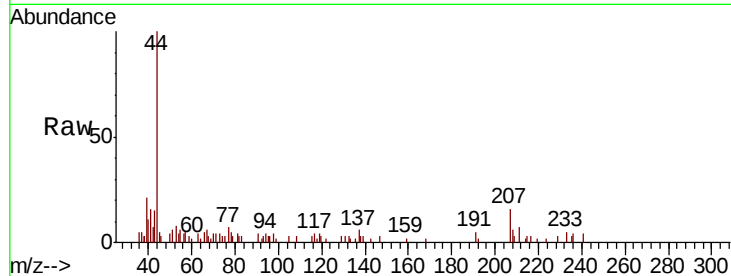
Tot Ion: 53 Resp: 419

Ion Ratio Lower Upper

53 100

52 91.2 77.2 115.8

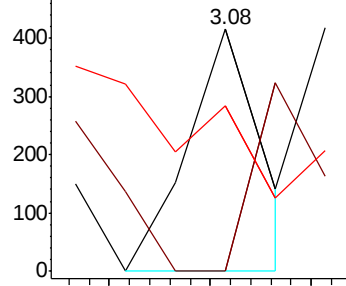
51 0.0 40.6 61.0#



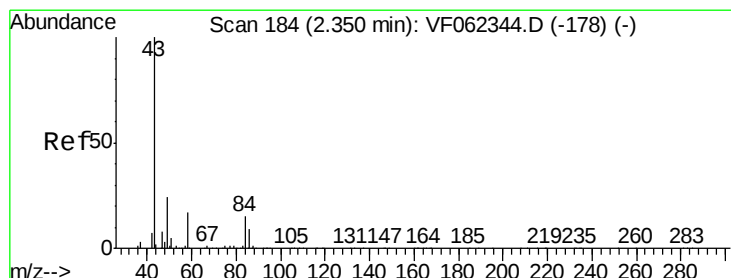
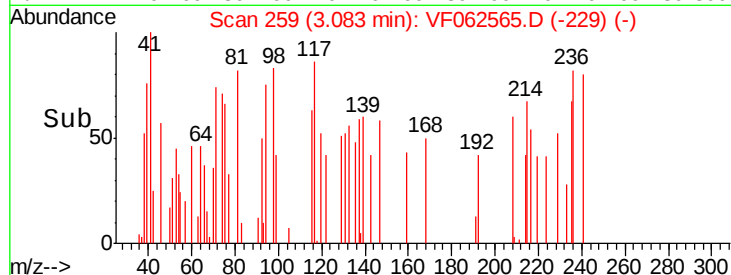
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 41.299 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062565.D

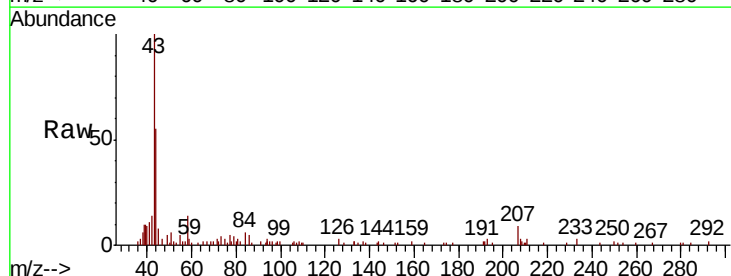
Acq: 14 May 2019 3:35

Tgt Ion: 43 Resp: 23896

Ion Ratio Lower Upper

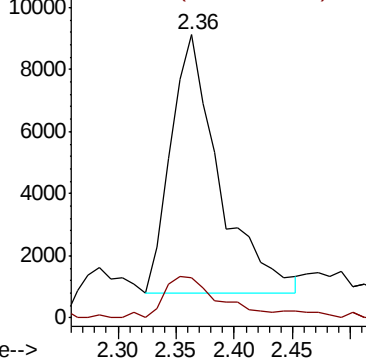
43 100

58 15.6 13.1 19.7

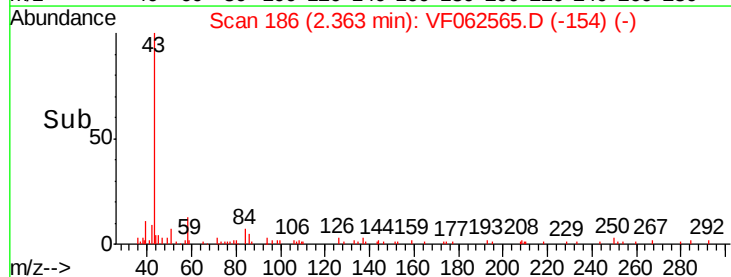


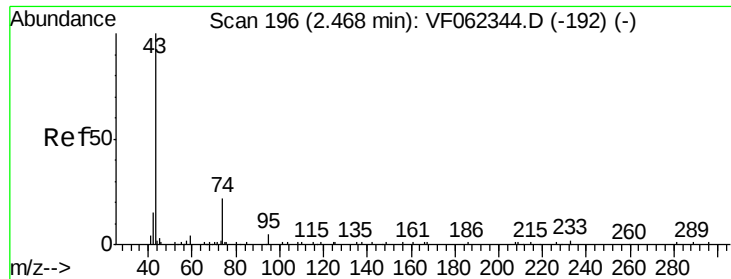
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->

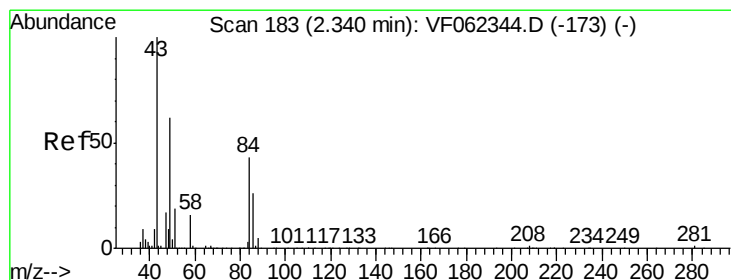
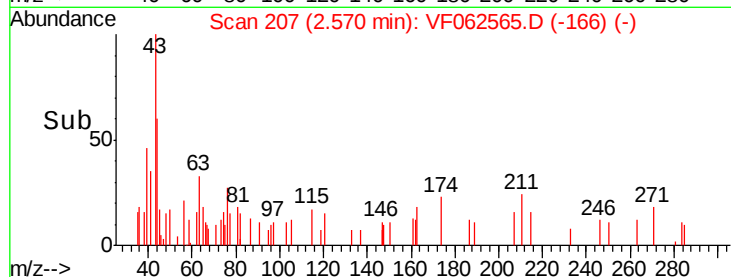
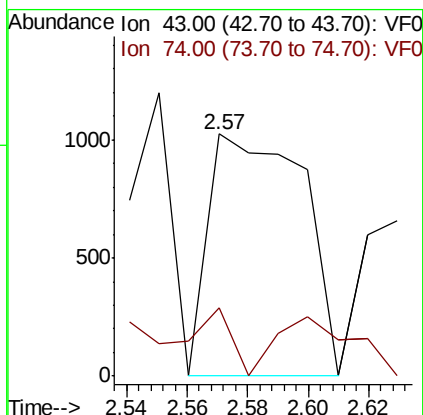
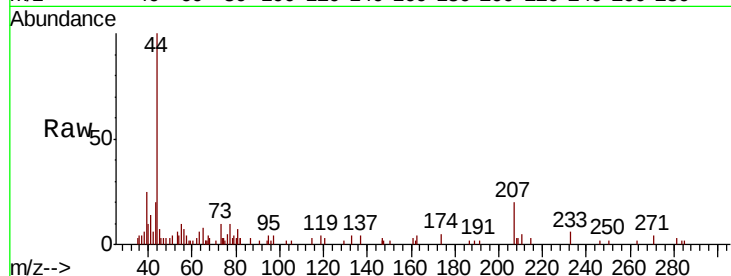




#18
Methyl Acetate
Concen: Below Cal
RT: 2.57 min Scan# 207
Delta R.T. 0.10 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

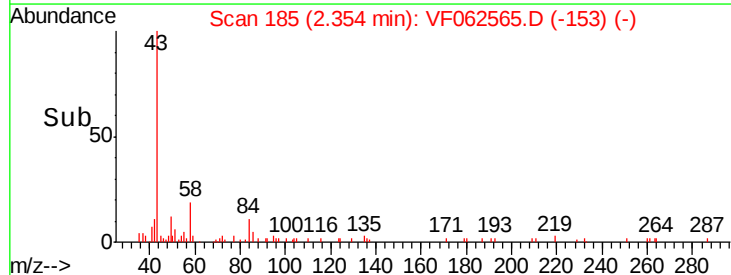
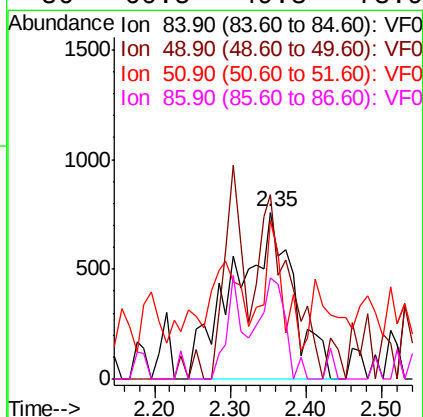
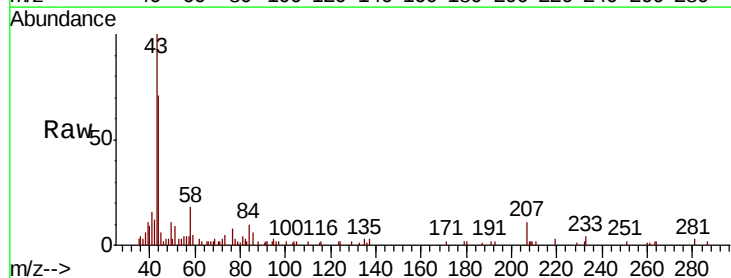
Instrument :
MSVOA_F
ClientSampleId :
P021-SS007-0612-01

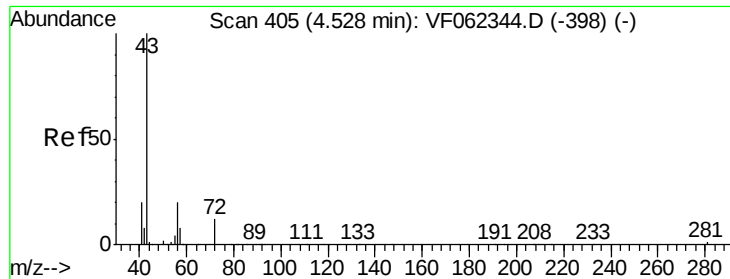
Tot Ion: 43 Resp: 2239
Ion Ratio Lower Upper
43 100
74 0.0 15.0 22.4#



#20
Methylene Chloride
Concen: 1.968 ug/l
RT: 2.35 min Scan# 185
Delta R.T. 0.01 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

Tgt Ion: 84 Resp: 4120
Ion Ratio Lower Upper
84 100
49 110.5 117.5 176.3#
51 57.8 37.0 55.4#
86 60.5 49.3 73.9





#25

2-Butanone

Concen: 1.941 ug/l

RT: 4.55 min Scan# 408

Delta R.T. 0.02 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

Instrument :

MSVOA_F

ClientSampleId :

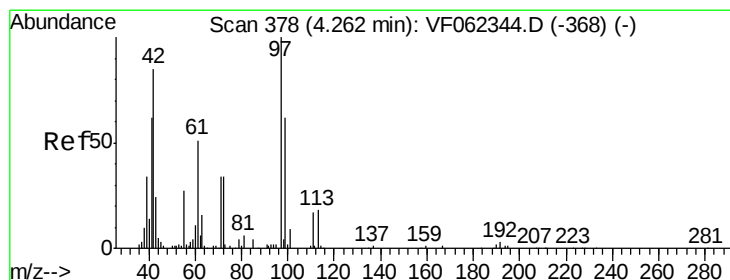
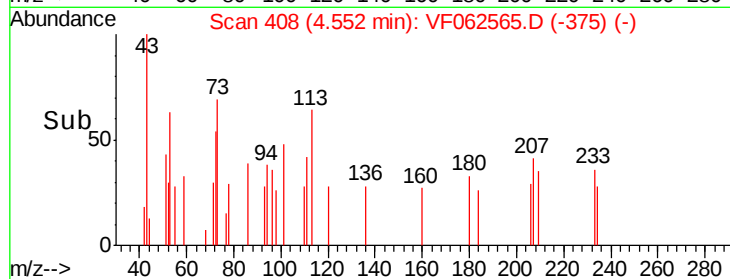
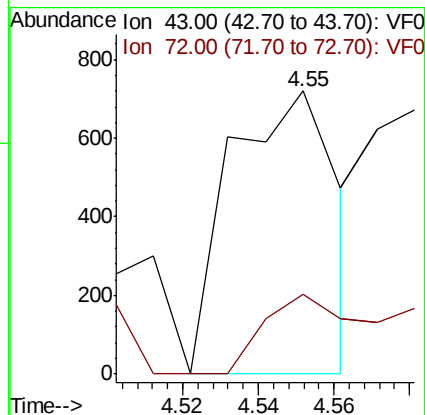
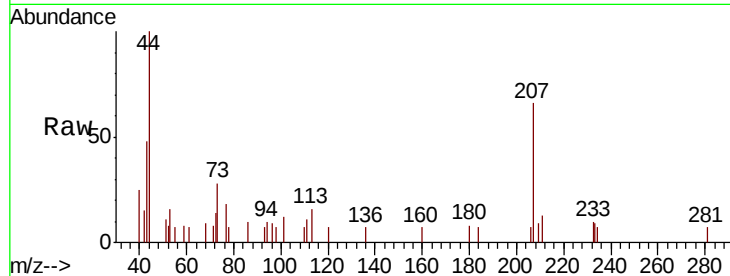
P021-SS007-0612-01

Tot Ion: 43 Resp: 1411

Ion Ratio Lower Upper

43 100

72 28.3 14.2 21.4#



#29

Tetrahydrofuran

Concen: 1.497 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

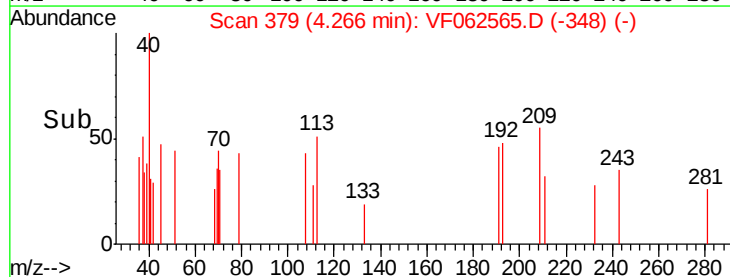
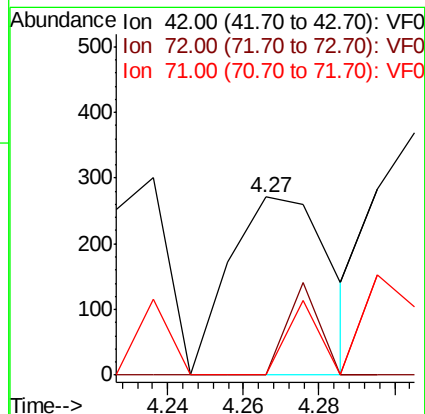
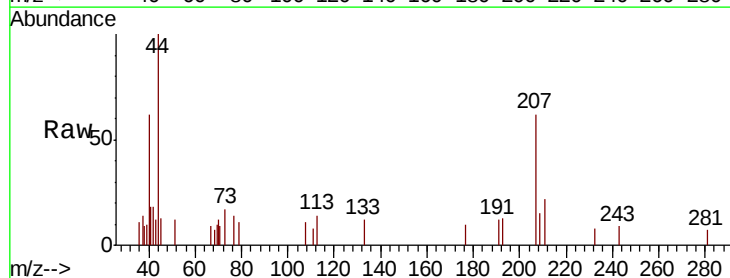
Tgt Ion: 42 Resp: 500

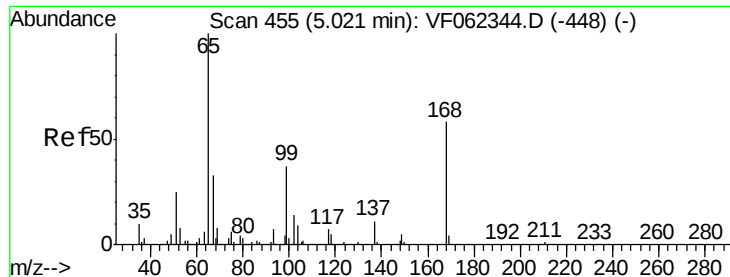
Ion Ratio Lower Upper

42 100

72 16.8 31.4 47.0#

71 0.0 31.7 47.5#





#33

1,2-Dichloroethane-d4

Concen: 42.041 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.03 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

Instrument :

MSVOA_F

ClientSampleId :

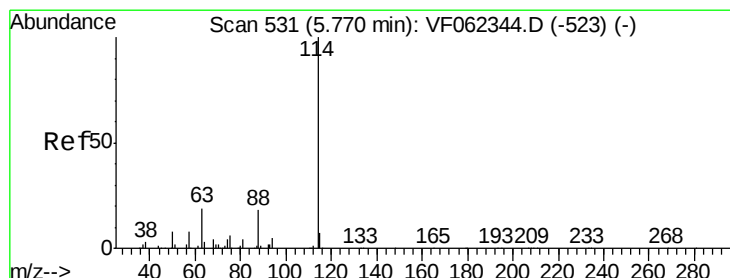
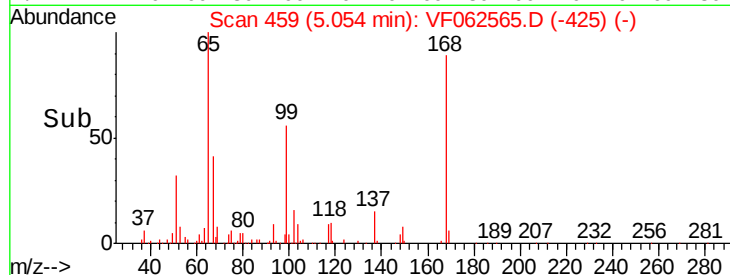
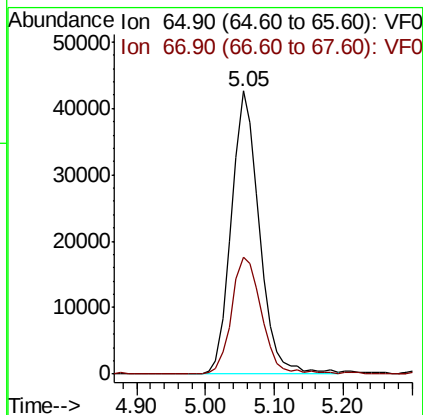
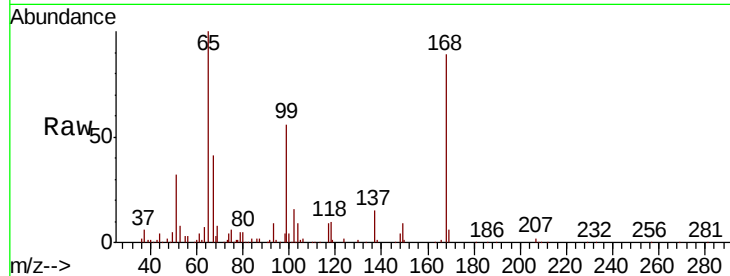
P021-SS007-0612-01

Tot Ion: 65 Resp: 120249

Ion Ratio Lower Upper

65 100

67 44.0 0.0 85.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 535

Delta R.T. 0.03 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

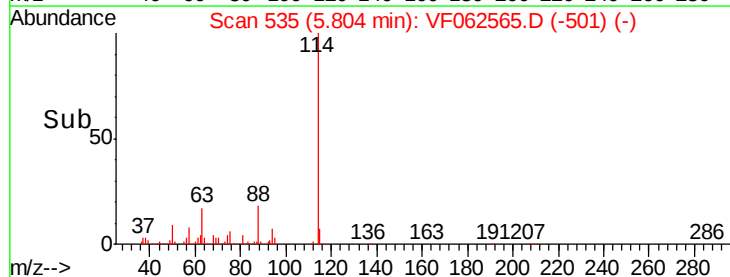
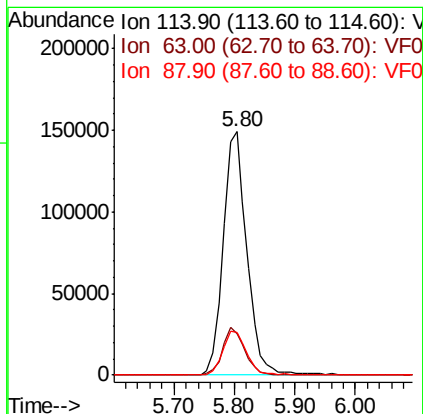
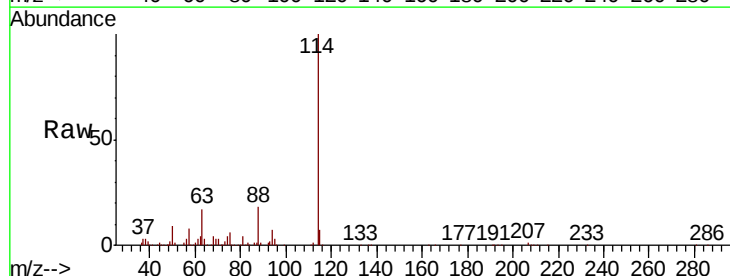
Tgt Ion: 114 Resp: 403344

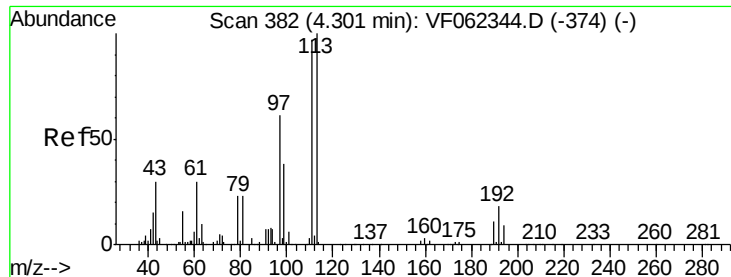
Ion Ratio Lower Upper

114 100

63 17.1 0.0 37.4

88 17.6 0.0 36.4

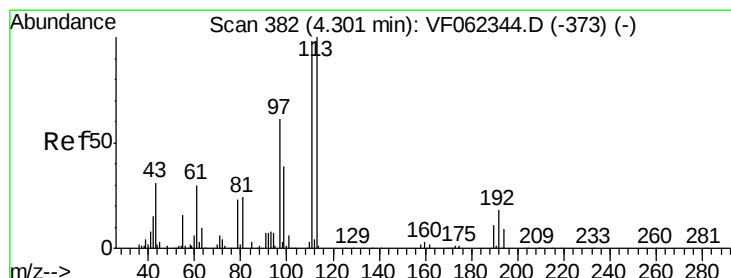
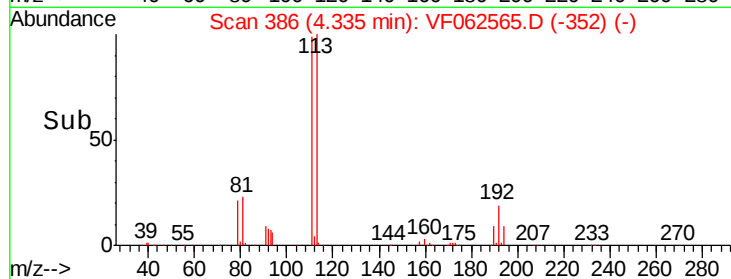
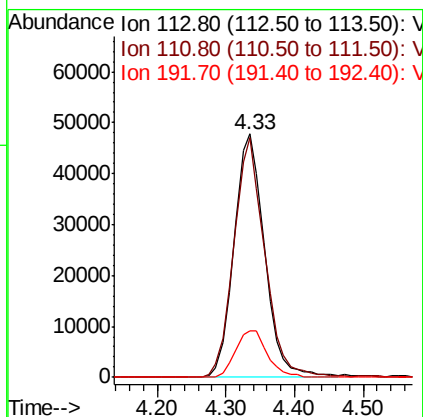
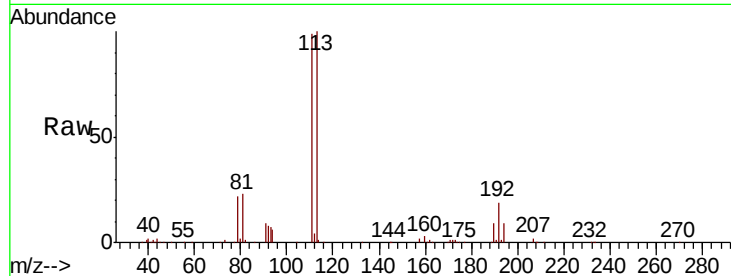




#35
Dibromofluoromethane
Concen: 45.717 ug/l
RT: 4.33 min Scan# 386
Delta R.T. 0.03 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

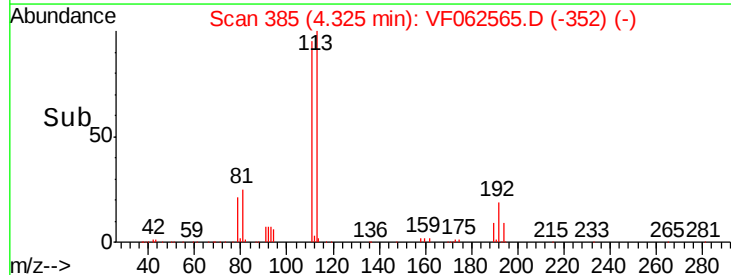
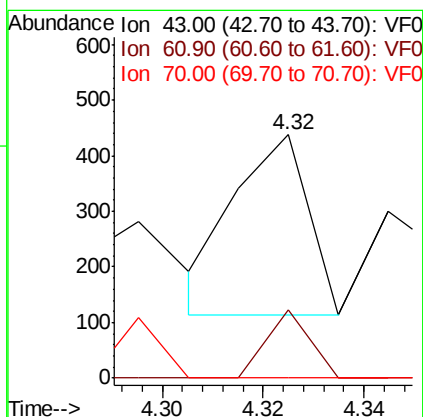
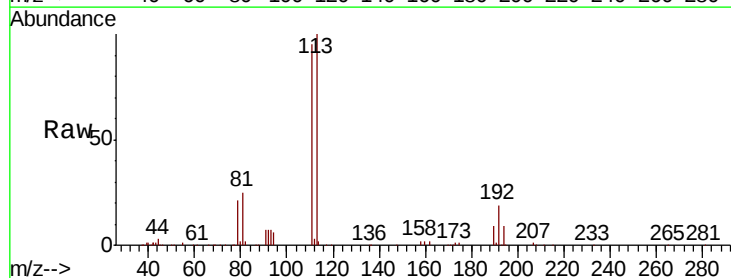
Instrument :
MSVOA_F
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P021-SS007-0612-01

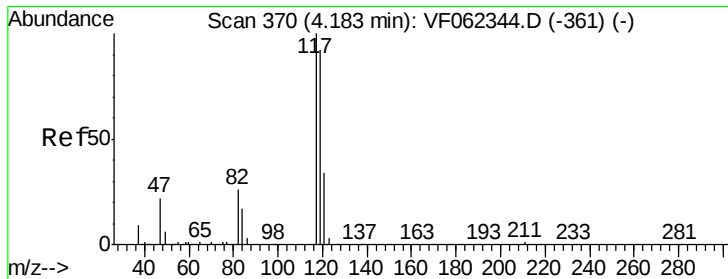
Tot Ion:113 Resp: 146907
Ion Ratio Lower Upper
113 100
111 99.7 79.4 119.0
192 20.0 16.0 24.0



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 385
Delta R.T. 0.02 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

Tgt Ion: 43 Resp: 326
Ion Ratio Lower Upper
43 100
61 22.4 0.0 0.0#
70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.16 min Scan# 368

Delta R.T. -0.03 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

Instrument :

MSVOA_F

ClientSampleId :

P021-SS007-0612-01

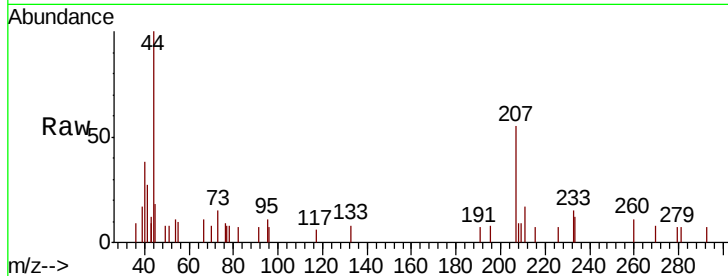
Tot Ion:117 Resp: 60

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

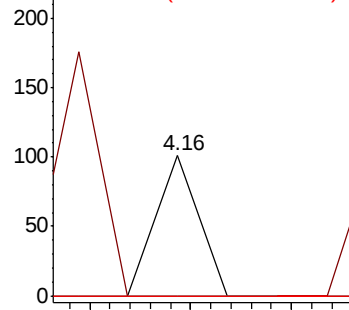
121 0.0 27.4 41.0#



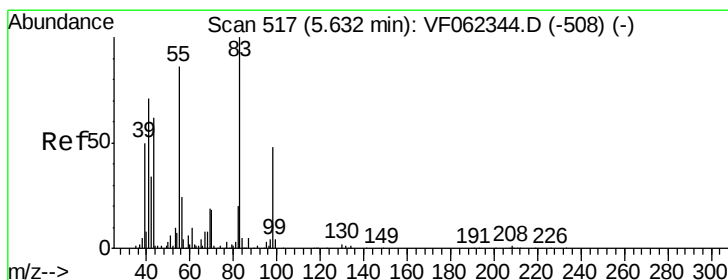
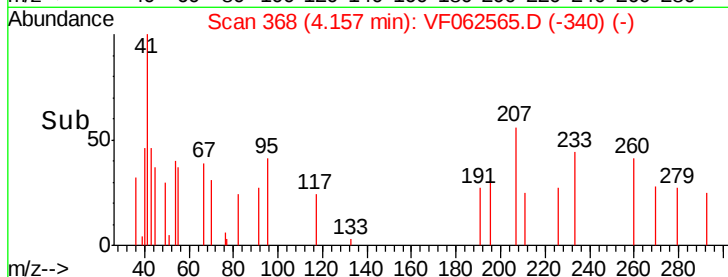
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



Time-->



#39

Methylcyclohexane

Concen: 1.685 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.15 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

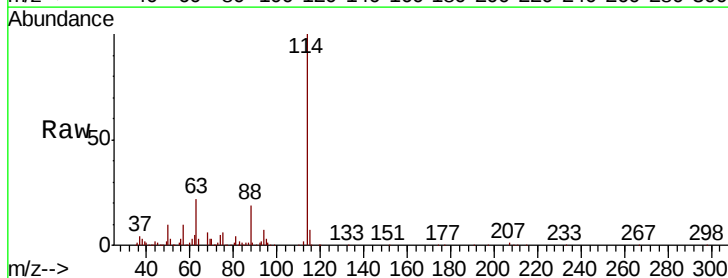
Tgt Ion: 83 Resp: 5854

Ion Ratio Lower Upper

83 100

55 35.8 69.0 103.6#

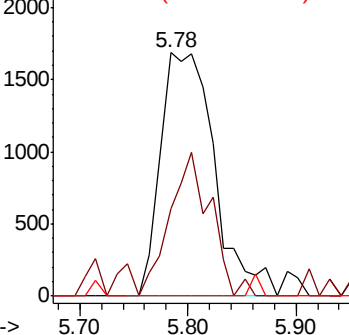
98 0.0 38.6 58.0#



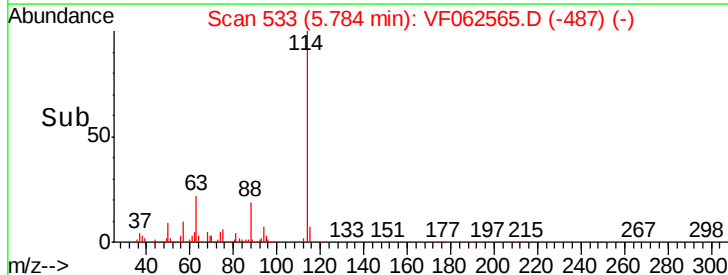
Abundance Ion 83.00 (82.70 to 83.70): VF0

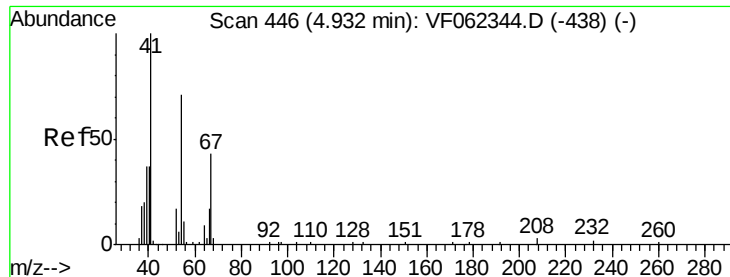
Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



Time-->

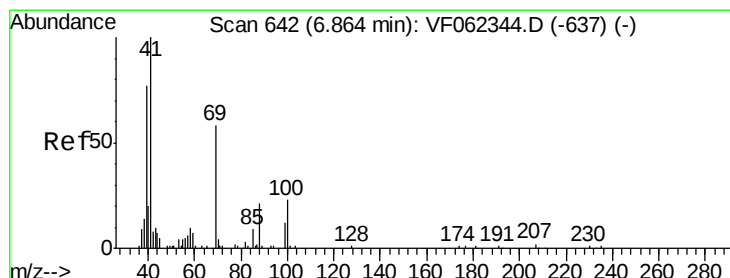
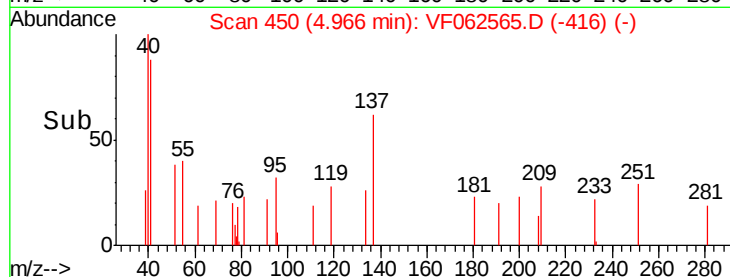
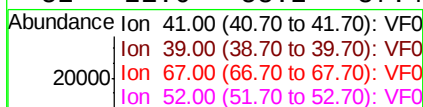
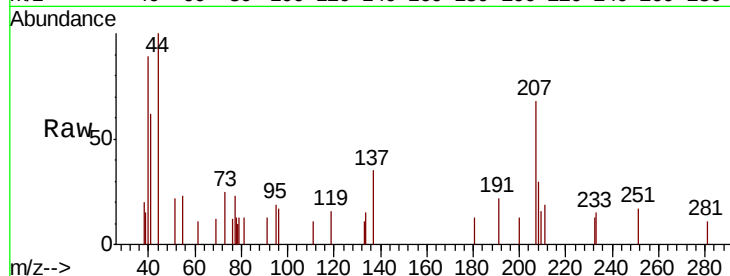




#41
Methacrylonitrile
Concen: 1.759 ug/l
RT: 4.97 min Scan# 450
Delta R.T. 0.03 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

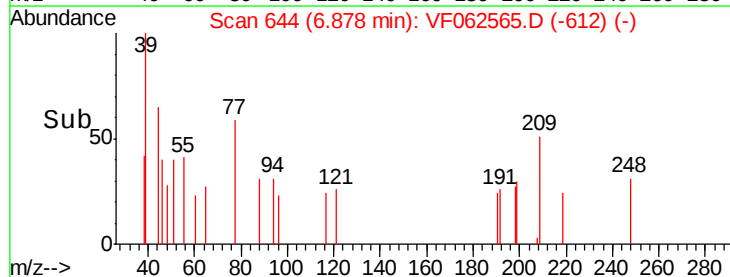
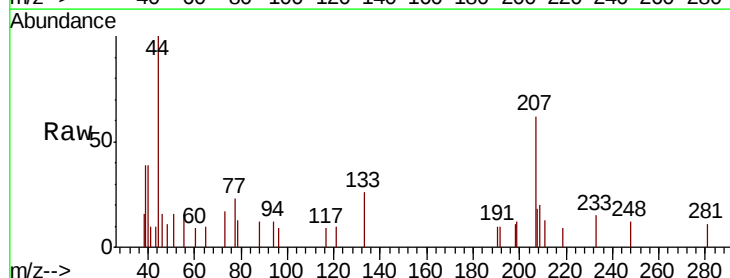
Instrument :
MSVOA_F
ClientSampleId :
P021-SS007-0612-01

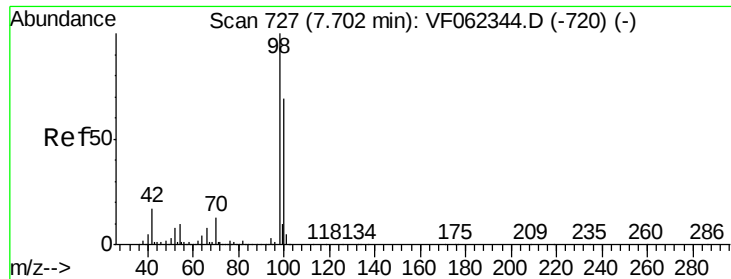
Tot Ion:	41	Resp:	1461
Ion	Ratio	Lower	Upper
41	100		
39	0.0	54.3	81.5#
67	0.0	37.8	56.8#
52	21.6	58.2	87.4#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.88 min Scan# 644
Delta R.T. 0.01 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

Tgt Ion:	88	Resp:	77
Ion	Ratio	Lower	Upper
88	100		
43	331.2	55.6	83.4#
58	318.2	52.8	79.2#





#50

Toluene-d8

Concen: 37.868 ug/l

RT: 7.74 min Scan# 731

Delta R.T. 0.03 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

Instrument :

MSVOA_F

ClientSampleId :

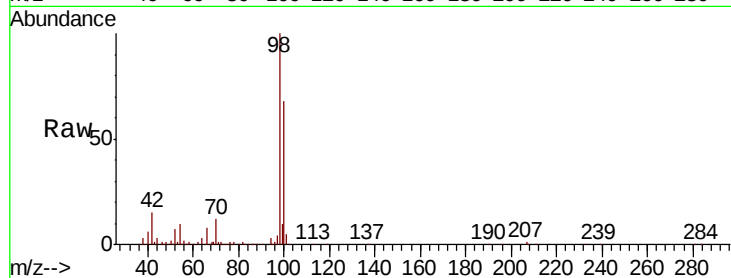
P021-SS007-0612-01

Tot Ion: 98 Resp: 294557

Ion Ratio Lower Upper

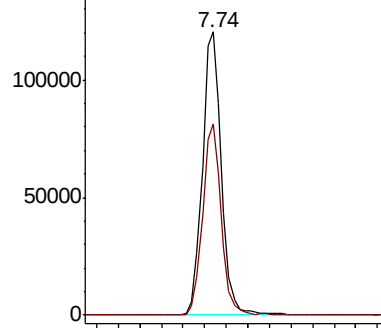
98 100

100 66.5 53.3 79.9

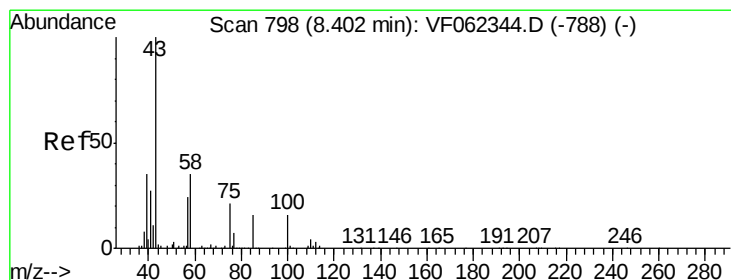
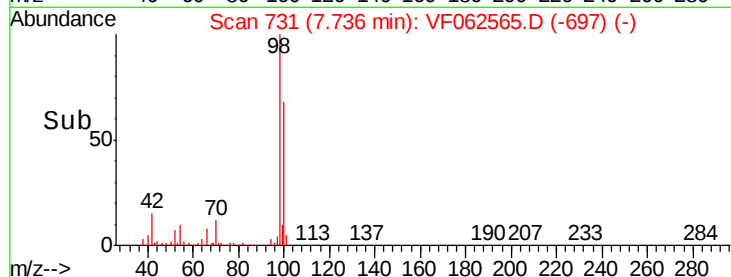


Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->



#51

4-Methyl-2-Pentanone

Concen: 4.271 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.02 min

Lab File: VF062565.D

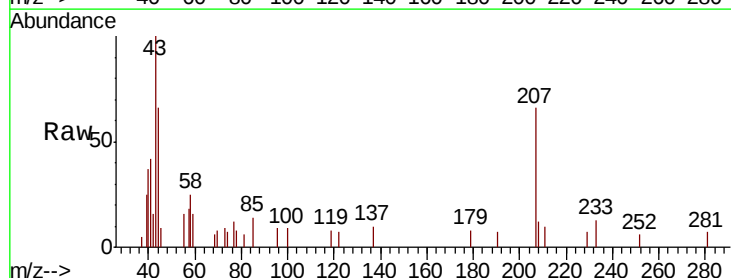
Acq: 14 May 2019 3:35

Tgt Ion: 43 Resp: 5101

Ion Ratio Lower Upper

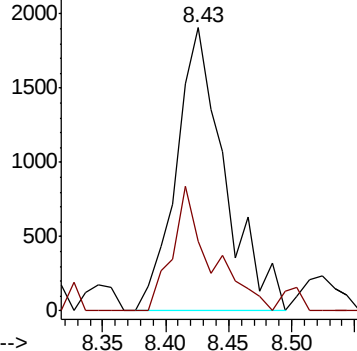
43 100

58 34.7 27.8 41.6

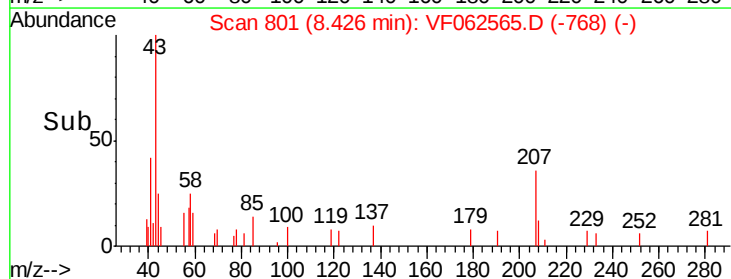


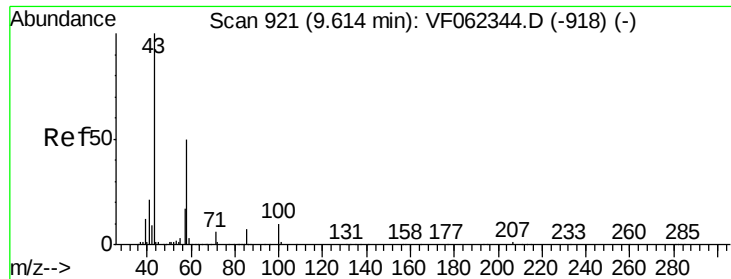
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->

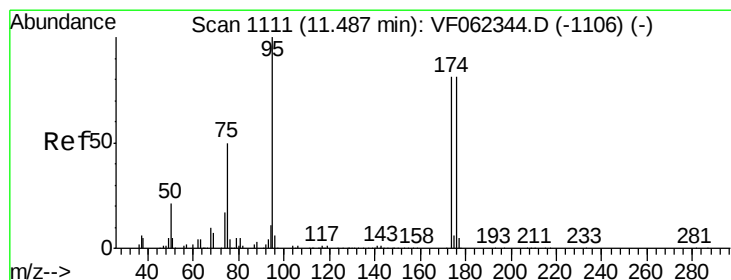
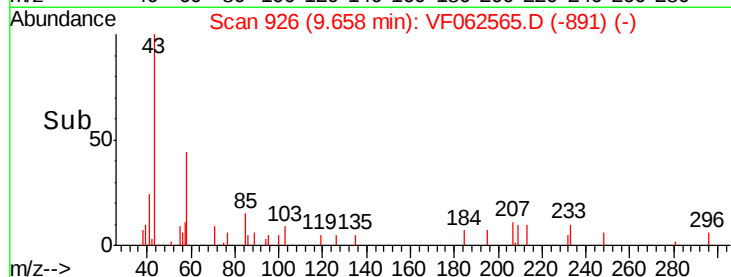
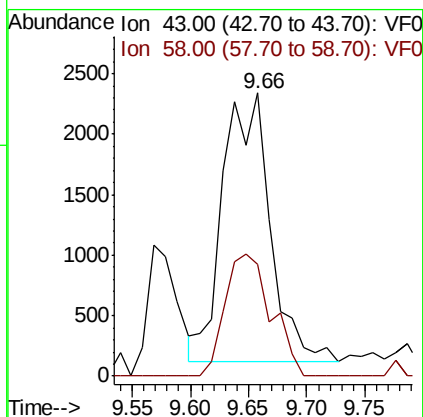
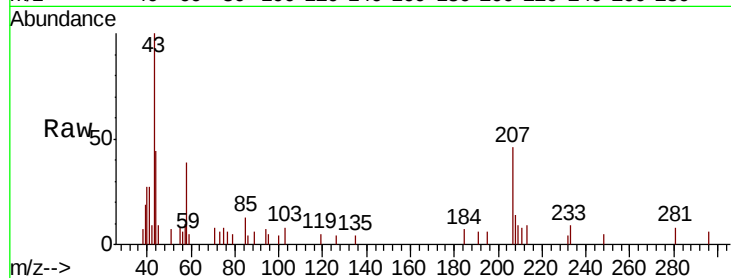




#59
2-Hexanone
Concen: 7.549 ug/l
RT: 9.66 min Scan# 926
Delta R.T. 0.04 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

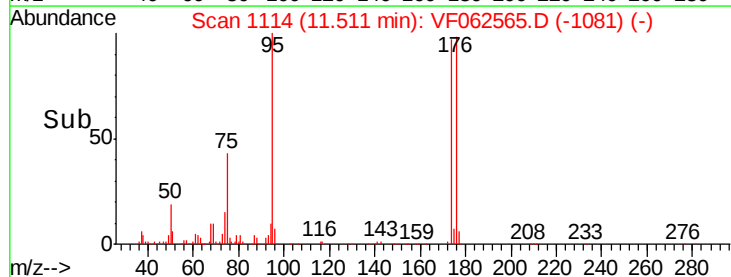
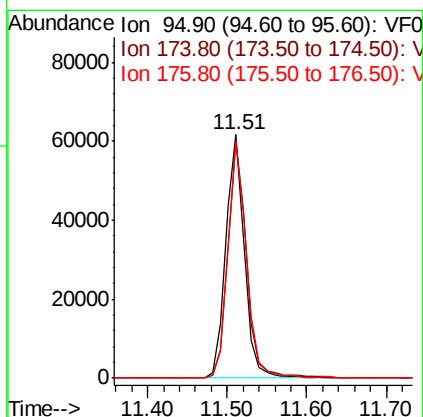
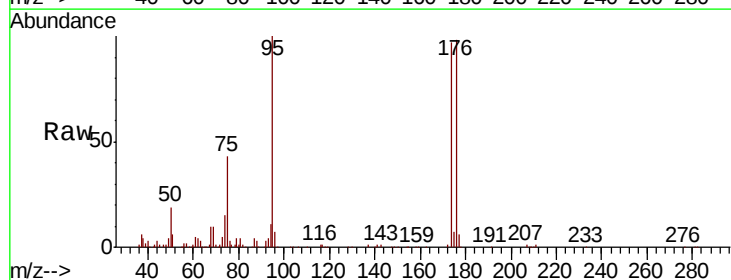
Instrument :
MSVOA_F
ClientSampleId :
P021-SS007-0612-01

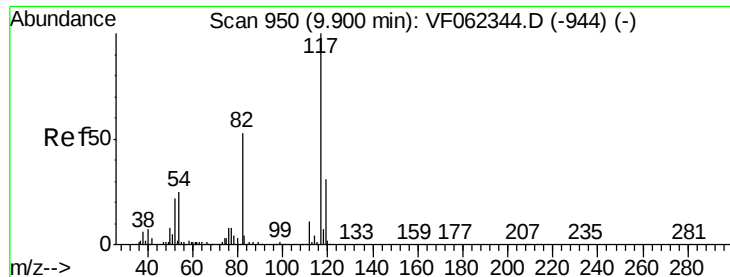
Tot Ion: 43 Resp: 6235
Ion Ratio Lower Upper
43 100
58 44.5 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 29.230 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

Tgt Ion: 95 Resp: 102578
Ion Ratio Lower Upper
95 100
174 96.4 0.0 191.8
176 96.4 0.0 193.2

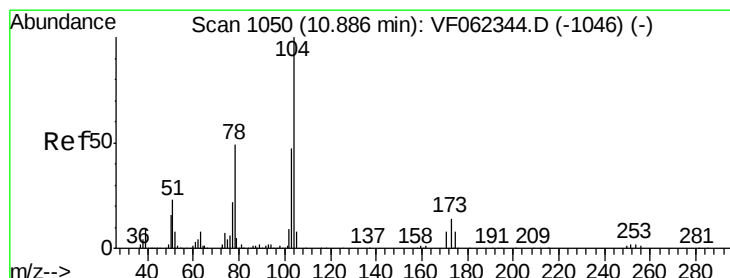
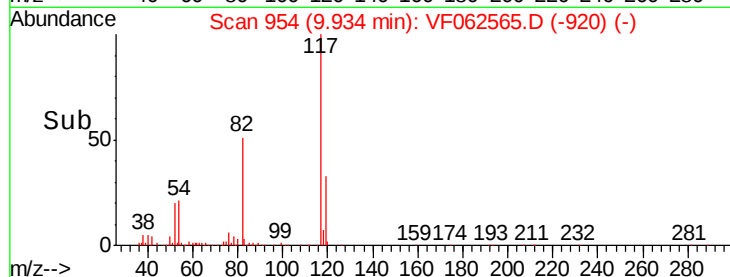
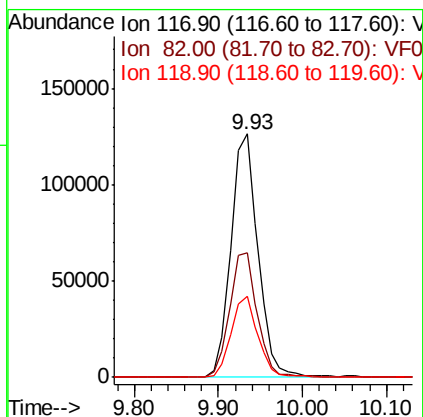
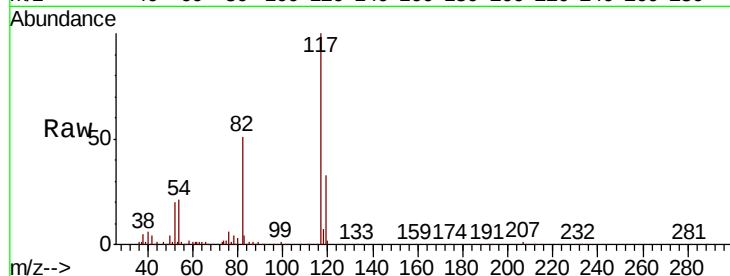




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 954
Delta R.T. 0.03 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

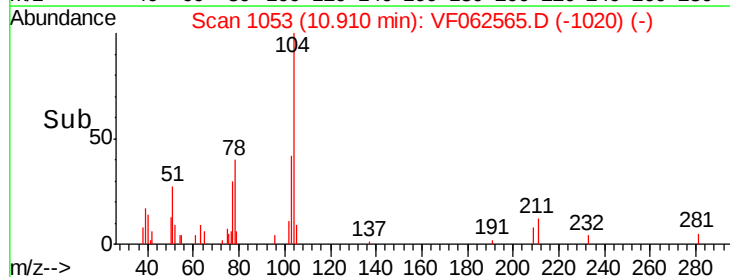
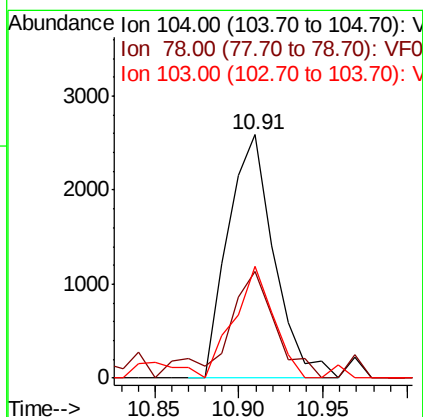
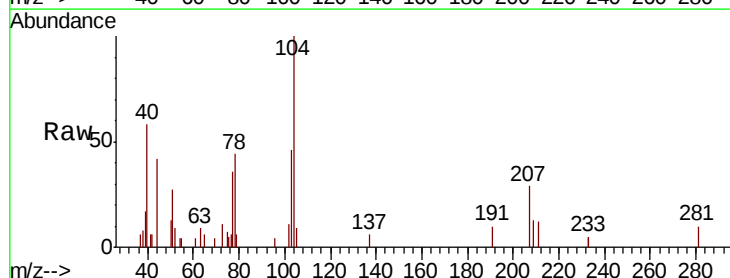
Instrument :
MSVOA_F
ClientSampleId :
P021-SS007-0612-01

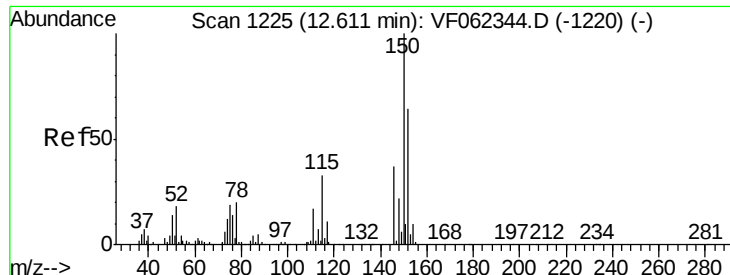
Tot Ion	Ratio	Lower	Upper
117	100		
82	51.1	42.2	63.2
119	33.4	25.0	37.4



#70
Styrene
Concen: 1.001 ug/l
RT: 10.91 min Scan# 1053
Delta R.T. 0.02 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

Tgt Ion	Ratio	Lower	Upper
104	100		
78	46.2	39.5	59.3
103	39.2	38.4	57.6



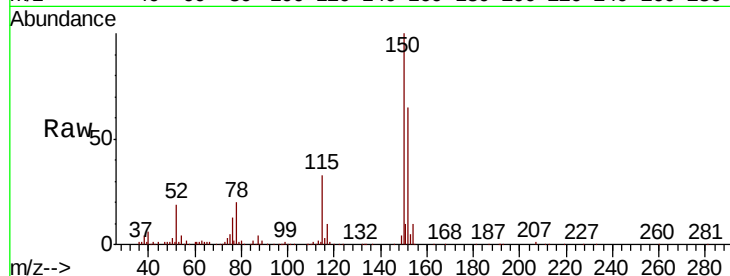


#72

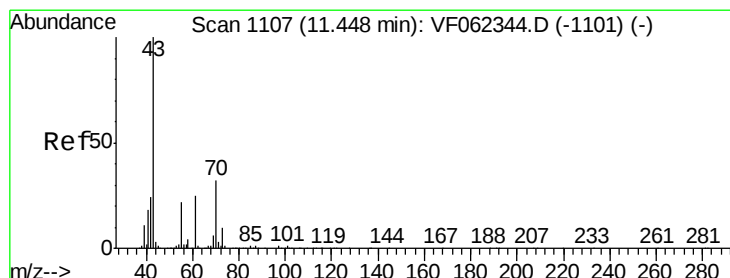
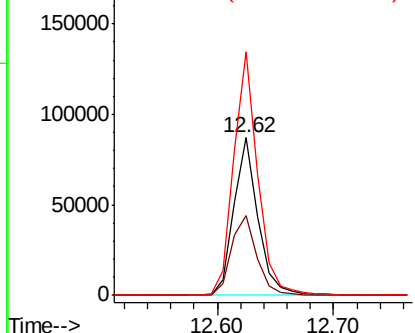
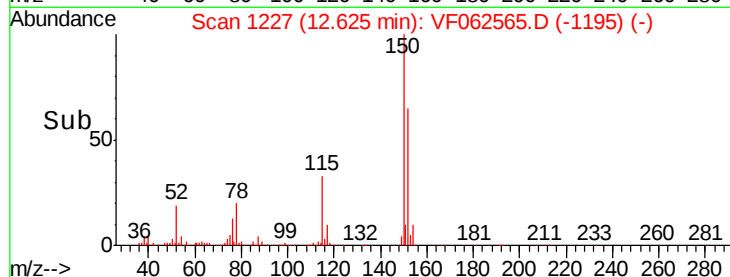
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

Instrument :
MSVOA_F
ClientSampleId :
P021-SS007-0612-01

Tot Ion:152 Resp: 125980
Ion Ratio Lower Upper
152 100
115 53.3 26.4 79.2
150 153.5 0.0 335.0



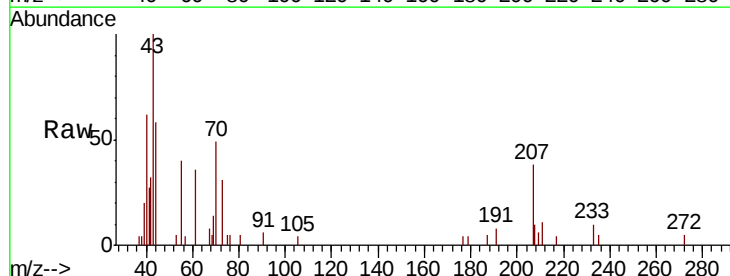
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



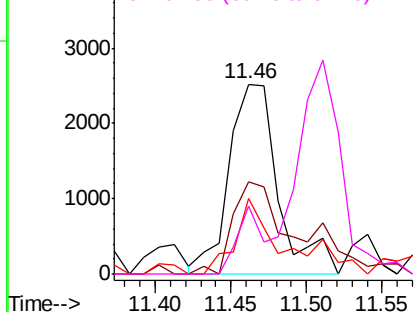
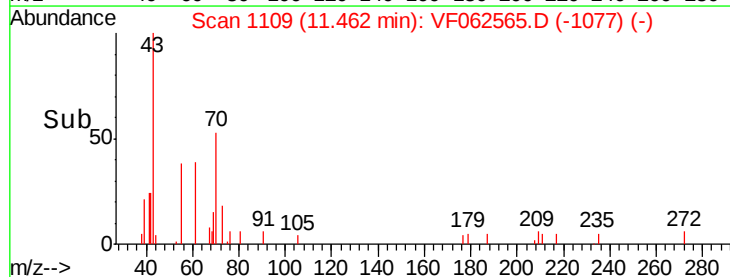
#74

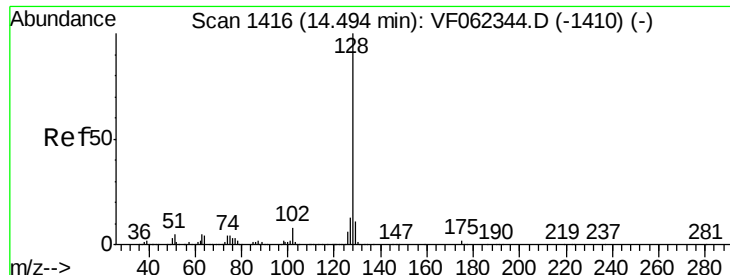
N-ethyl acetate
Concen: 3.569 ug/l
RT: 11.46 min Scan# 1109
Delta R.T. 0.01 min
Lab File: VF062565.D
Acq: 14 May 2019 3:35

Tgt Ion: 43 Resp: 5723
Ion Ratio Lower Upper
43 100
70 65.7 26.5 39.7#
55 39.5 17.8 26.6#
61 17.6 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 70.00 (69.70 to 70.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 61.00 (60.70 to 61.70): VF0





#95

Naphthalene

Concen: 2.644 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VF062565.D

Acq: 14 May 2019 3:35

Instrument :

MSVOA_F

ClientSampleId :

P021-SS007-0612-01

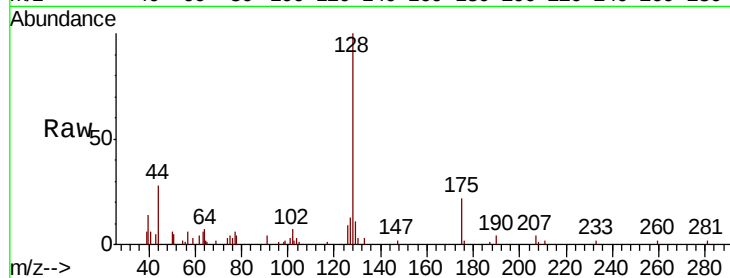
Tot Ion:128 Resp: 12354

Ion Ratio Lower Upper

128 100

127 11.9 10.5 15.7

129 10.5 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

