

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060573.D
 Acq On : 5 Nov 2018 15:26
 Operator : VA/AP
 Sample : J5755-03RE
 Misc : 5.38/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-1-SRE

Quant Time: Nov 05 15:39:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	187048	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	306706	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	196992	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	51323	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	78267	41.41	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	82.82%	
35) Dibromofluoromethane	4.10	113	101444	42.81	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	85.62%	
50) Toluene-d8	7.54	98	229445	32.69	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	65.38%	
62) 4-Bromofluorobenzene	11.40	95	62559	20.37	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	40.74%	

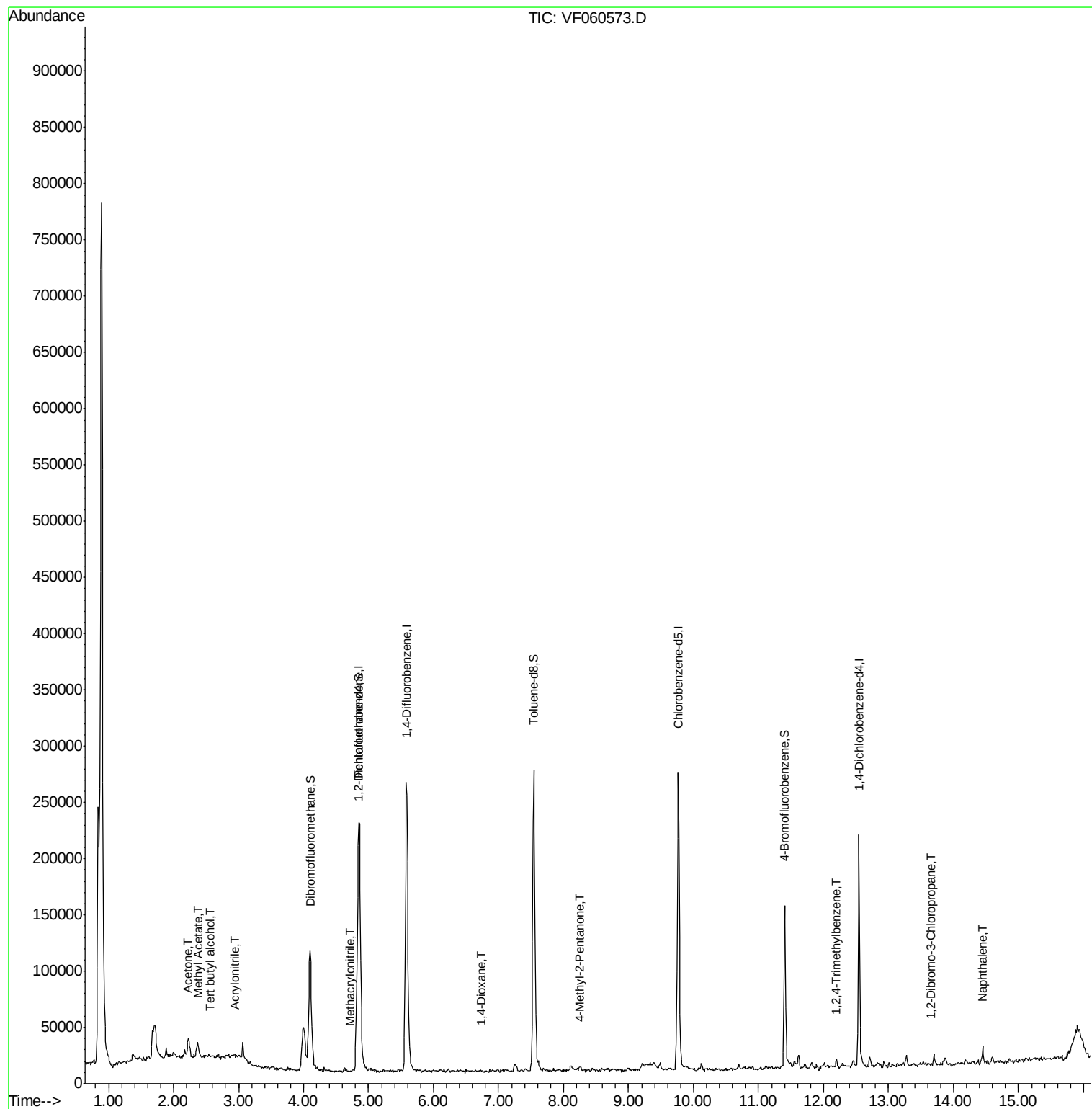
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	281	Below Cal		100
6) Chloroethane	1.40	64	301	Below Cal	#	40
11) Tert butyl alcohol	2.56	59	2161	15.477	ug/l #	1
13) Acrolein	2.00	56	563	Below Cal		94
15) Acrylonitrile	2.95	53	851	3.778	ug/l #	62
16) Acetone	2.23	43	22867	51.349	ug/l	95
18) Methyl Acetate	2.37	43	8865	13.172	ug/l #	64
20) Methylene Chloride	2.18	84	2780	Below Cal	#	88
25) 2-Butanone	4.32	43	3477	Below Cal	#	72
29) Tetrahydrofuran	4.07	42	2183	Below Cal	#	24
41) Methacrylonitrile	4.72	41	1419	1.546	ug/l #	52
49) 1,4-Dioxane	6.72	88	59	4.376	ug/l #	1
51) 4-Methyl-2-Pentanone	8.24	43	5937	4.305	ug/l #	76
58) 2-Chloroethyl Vinyl ether	7.61	63	453	Below Cal		100
59) 2-Hexanone	9.49	43	5894	Below Cal		78
74) N-amyl acetate	11.37	43	1882	Below Cal	#	69
84) 1,2,4-Trimethylbenzene	12.20	105	3568	1.104	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.65	75	157	1.237	ug/l #	1
95) Naphthalene	14.45	128	7713	3.527	ug/l #	94

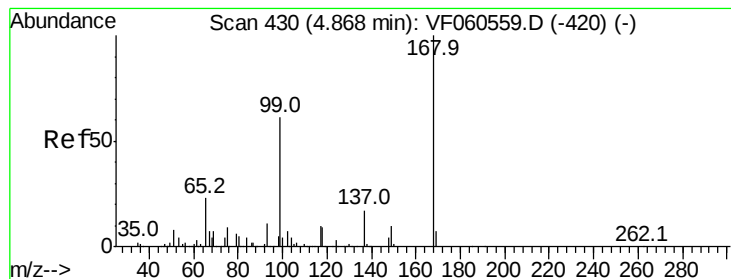
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.01 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

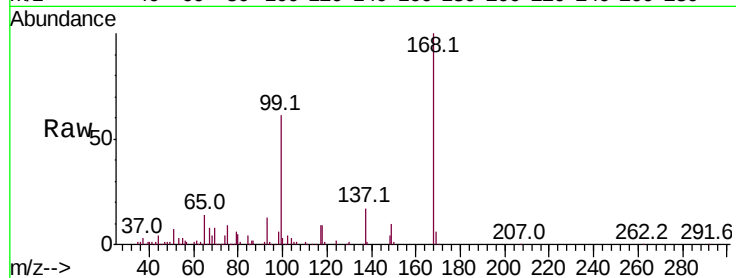
TP-1-SRE

Tot Ion:168 Resp: 187048

Ion Ratio Lower Upper

168 100

99 60.6 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

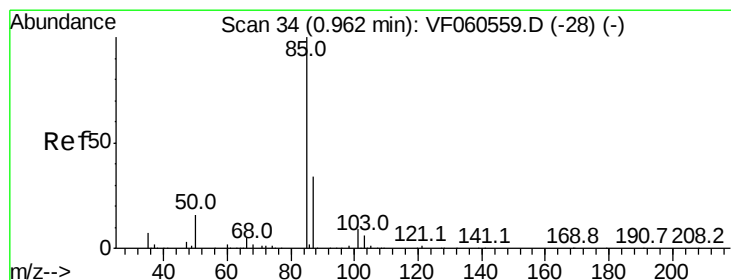
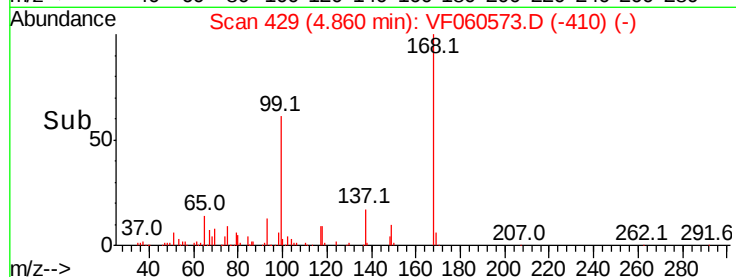
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 35

Delta R.T. 0.01 min

Lab File: VF060573.D

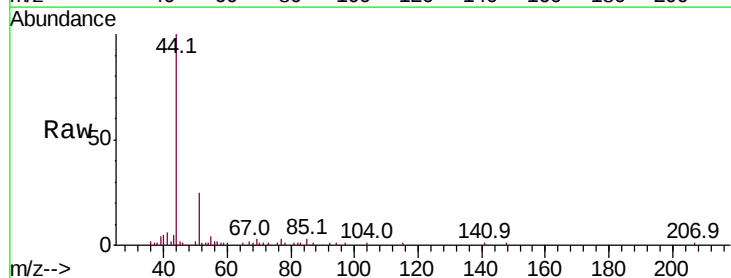
Acq: 5 Nov 2018 15:26

Tgt Ion: 85 Resp: 281

Ion Ratio Lower Upper

85 100

87 33.9 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

400

300

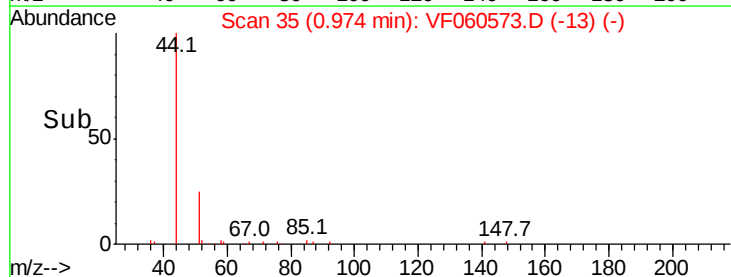
200

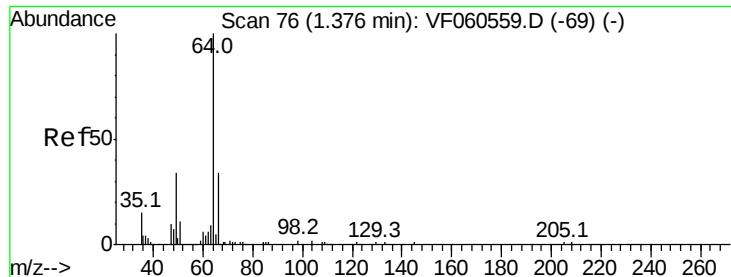
100

0

0.92 0.94 0.96 0.98 1.00

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.40 min Scan# 78

Delta R.T. 0.02 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

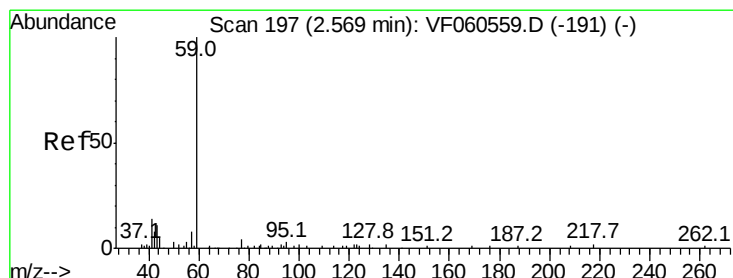
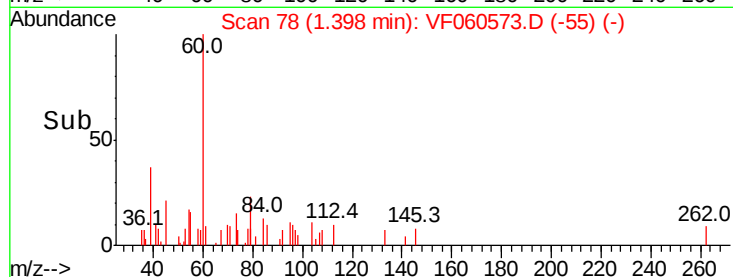
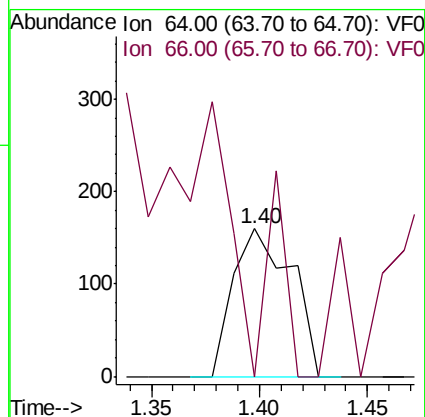
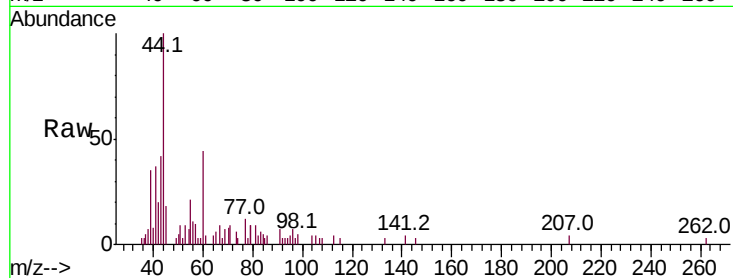
Instrument :
MSVOA_F
ClientSampleId :
TP-1-SRE

Tot Ion: 64 Resp: 301

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#



#11

Tert butyl alcohol

Concen: 15.477 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.01 min

Lab File: VF060573.D

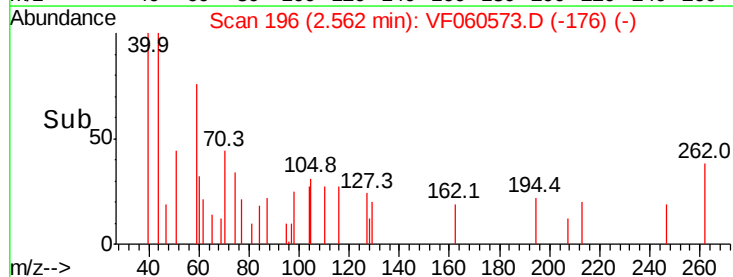
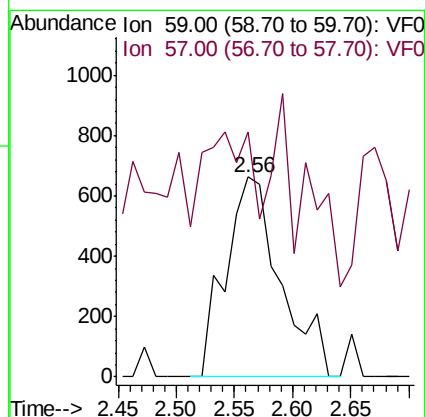
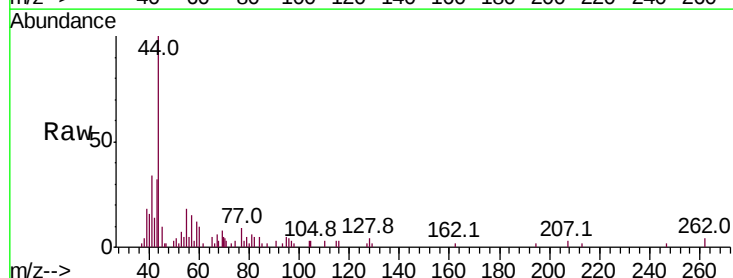
Acq: 5 Nov 2018 15:26

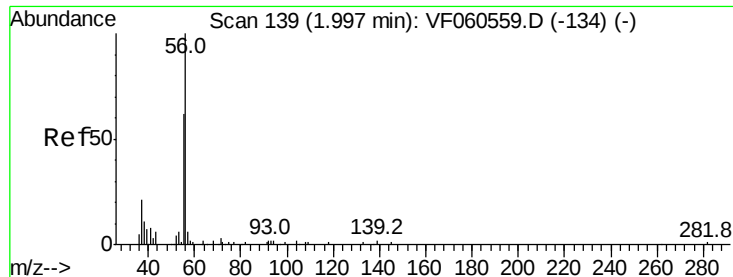
Tgt Ion: 59 Resp: 2161

Ion Ratio Lower Upper

59 100

57 122.5 19.0 28.4#





#13

Acrolein

Concen: Below Cal

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Instrument :

MSVOA_F

ClientSampled :

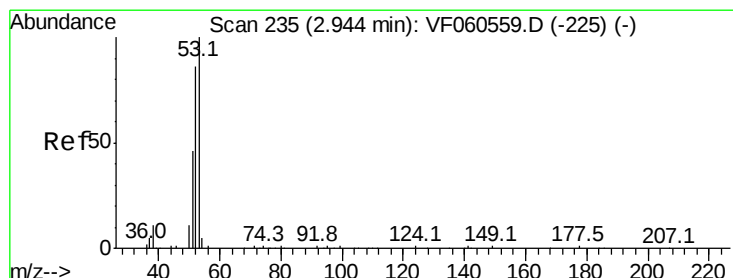
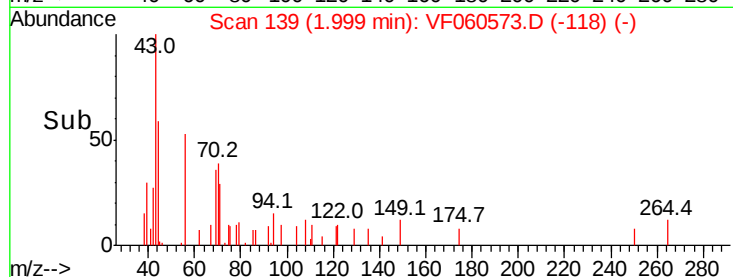
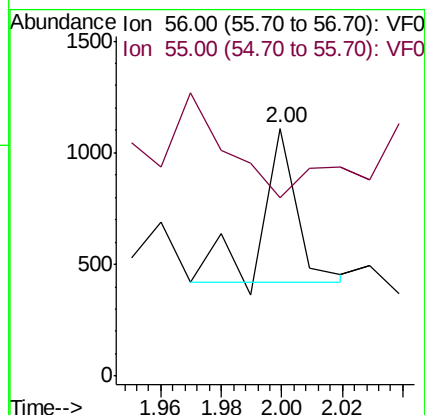
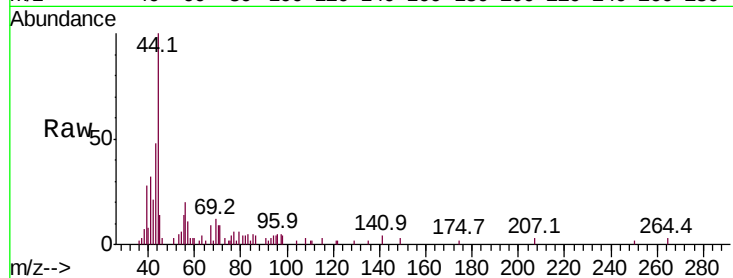
TP-1-SRE

Tot Ion: 56 Resp: 563

Ion Ratio Lower Upper

56 100

55 72.1 61.8 92.6



#15

Acrylonitrile

Concen: 3.778 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.00 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

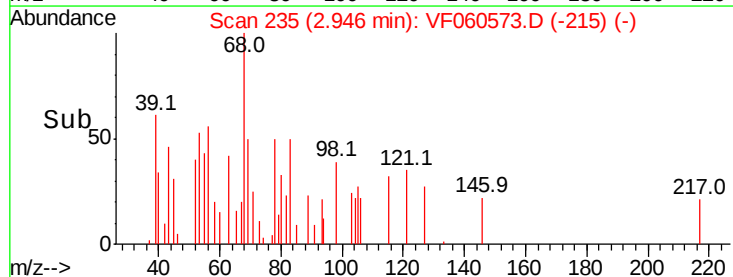
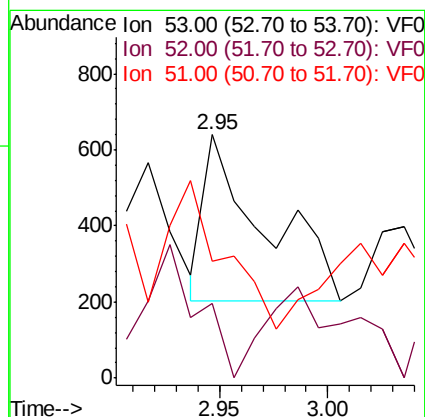
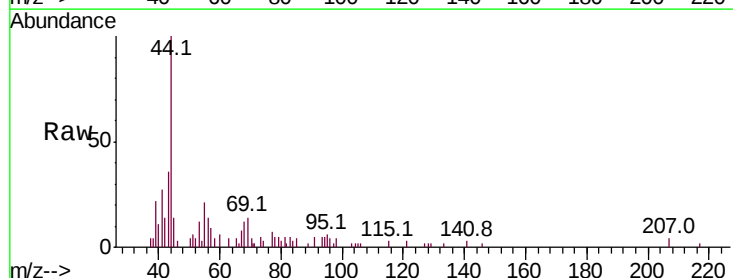
Tgt Ion: 53 Resp: 851

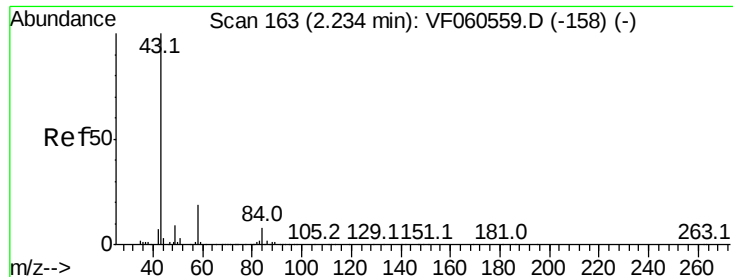
Ion Ratio Lower Upper

53 100

52 30.9 68.5 102.7#

51 48.0 38.2 57.2





#16

Acetone

Concen: 51.349 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.01 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

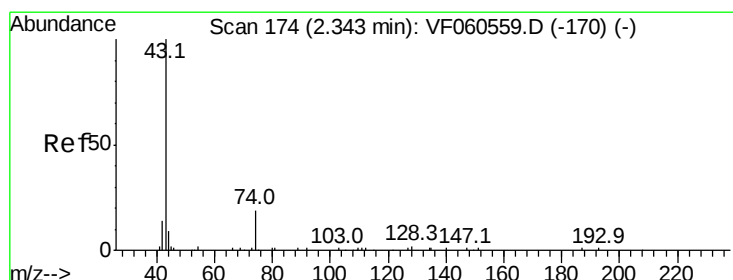
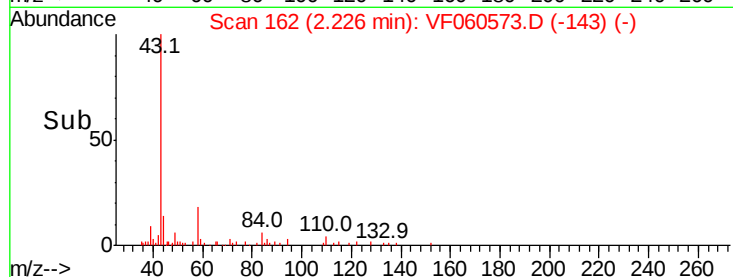
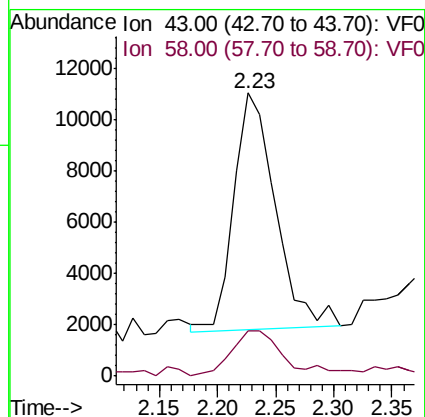
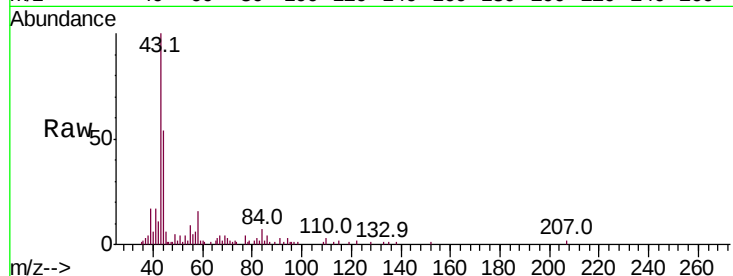
TP-1-SRE

Tot Ion: 43 Resp: 22867

Ion Ratio Lower Upper

43 100

58 16.1 14.6 22.0



#18

Methyl Acetate

Concen: 13.172 ug/l

RT: 2.37 min Scan# 177

Delta R.T. 0.03 min

Lab File: VF060573.D

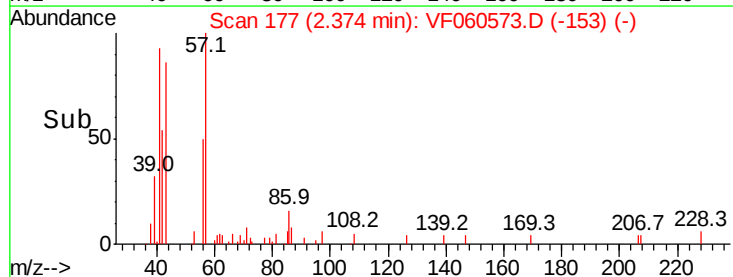
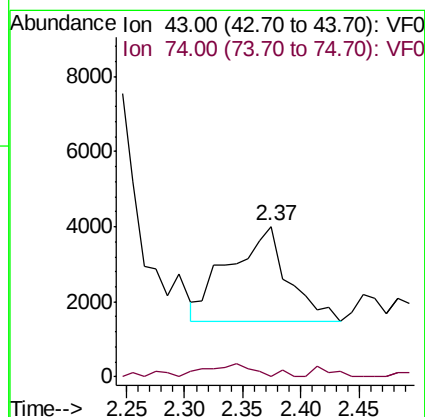
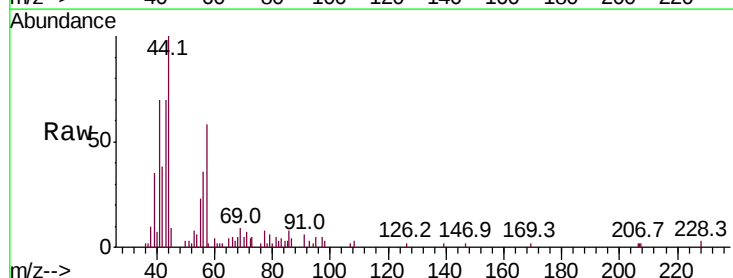
Acq: 5 Nov 2018 15:26

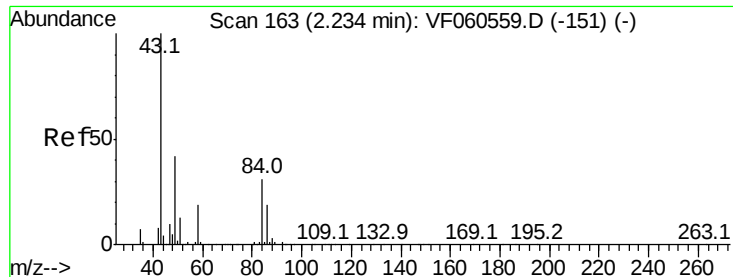
Tgt Ion: 43 Resp: 8865

Ion Ratio Lower Upper

43 100

74 0.0 12.1 18.1#

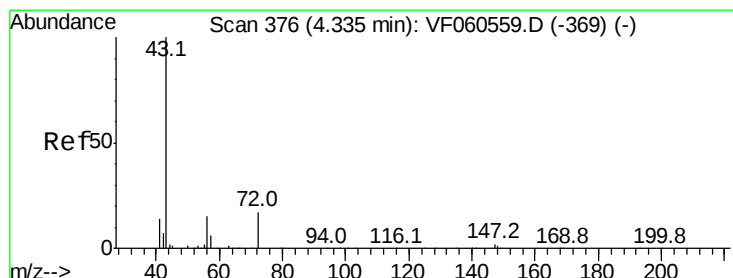
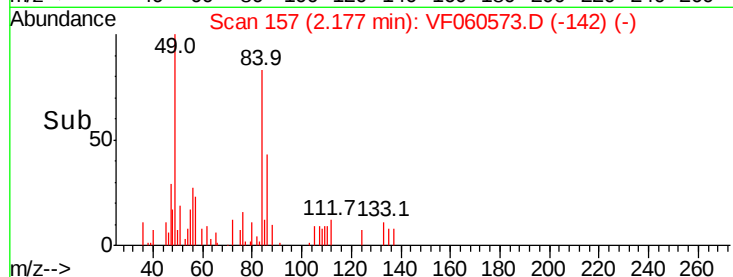
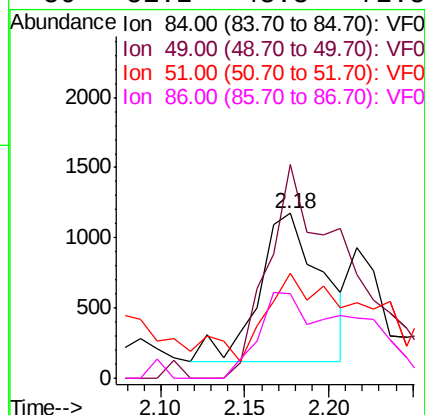
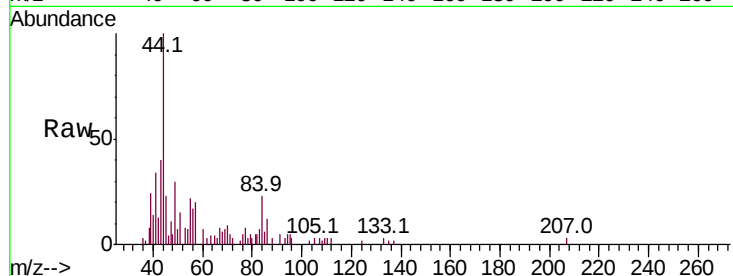




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.06 min
Lab File: VF060573.D
Acq: 5 Nov 2018 15:26

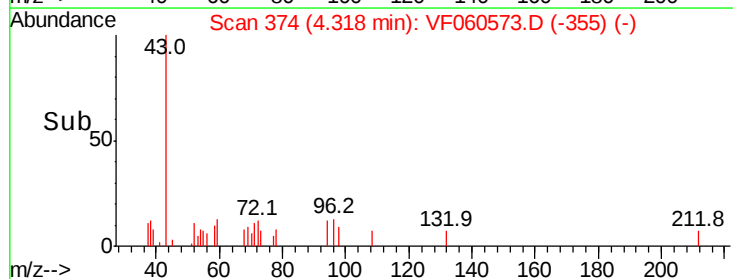
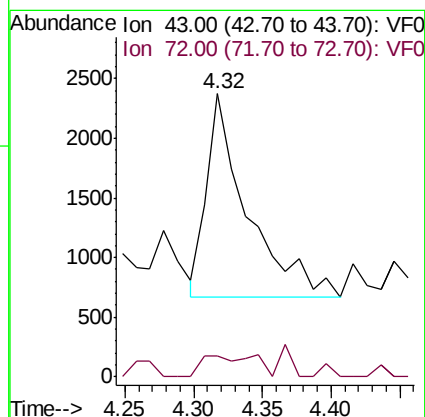
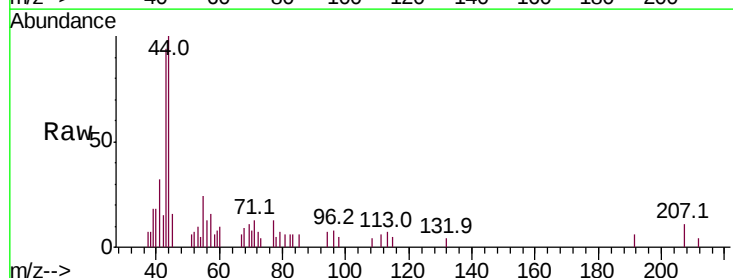
Instrument :
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TP-1-SRE

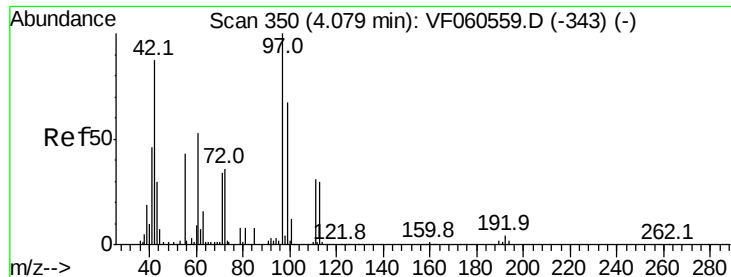
Tot Ion: 84 Resp: 2780
Ion Ratio Lower Upper
84 100
49 129.4 109.9 164.9
51 63.3 35.8 53.8#
86 51.2 48.3 72.5



#25
2-Butanone
Concen: Below Cal
RT: 4.32 min Scan# 374
Delta R.T. -0.02 min
Lab File: VF060573.D
Acq: 5 Nov 2018 15:26

Tgt Ion: 43 Resp: 3477
Ion Ratio Lower Upper
43 100
72 7.5 16.2 24.2#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.07 min Scan# 349

Delta R.T. -0.01 min

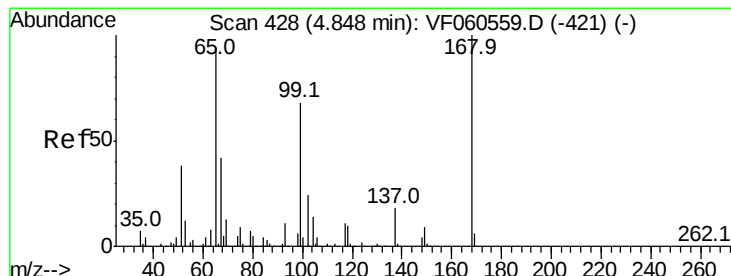
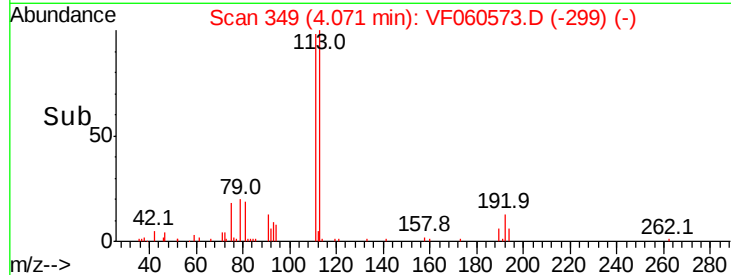
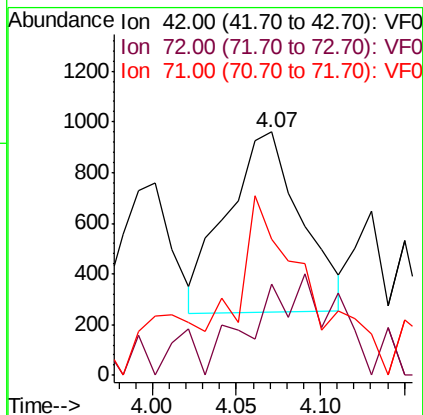
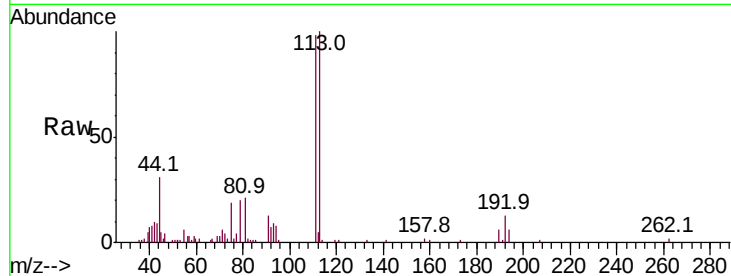
Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Instrument :
MSVOA_F
ClientSampleId :
TP-1-SRE

Tot Ion: 42 Resp: 2183

Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.0#
71	93.9	31.8	47.6#



#33

1,2-Dichloroethane-d4

Concen: 41.414 ug/l

RT: 4.83 min Scan# 426

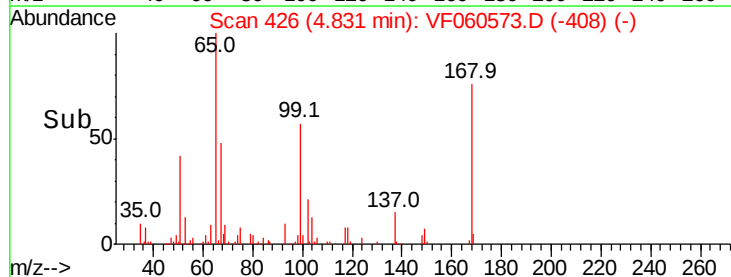
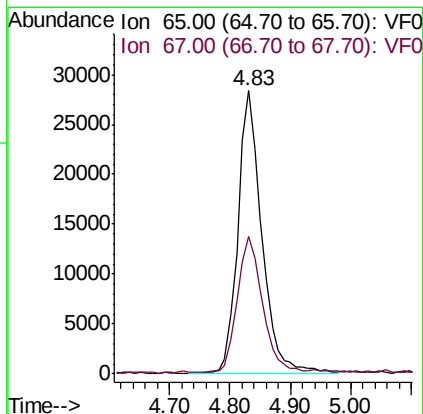
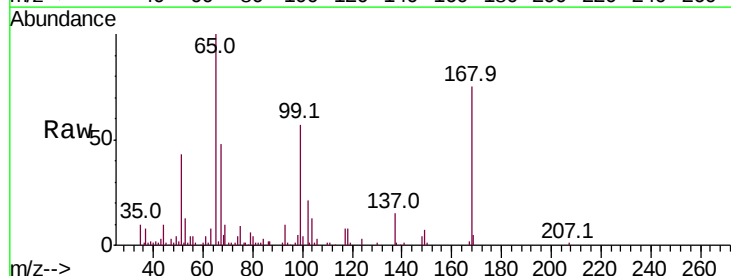
Delta R.T. -0.02 min

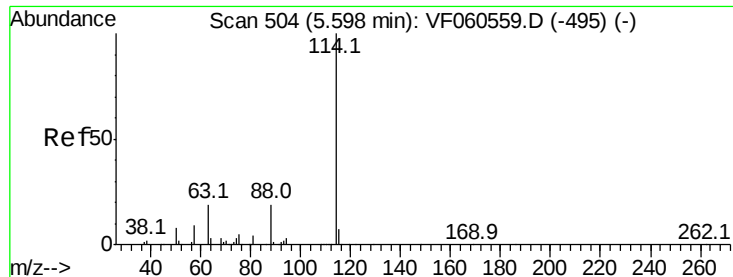
Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Tgt Ion: 65 Resp: 78267

Ion	Ratio	Lower	Upper
65	100		
67	48.5	0.0	101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

TP-1-SRE

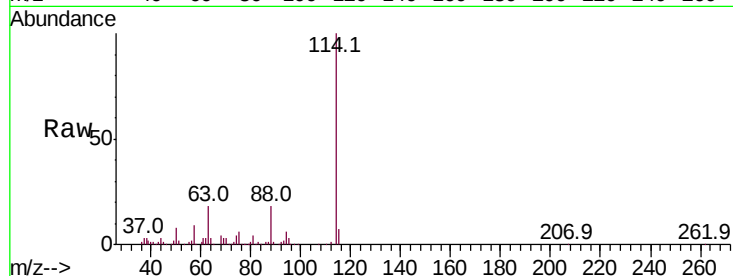
Tot Ion:114 Resp: 306706

Ion Ratio Lower Upper

114 100

63 17.9 0.0 39.0

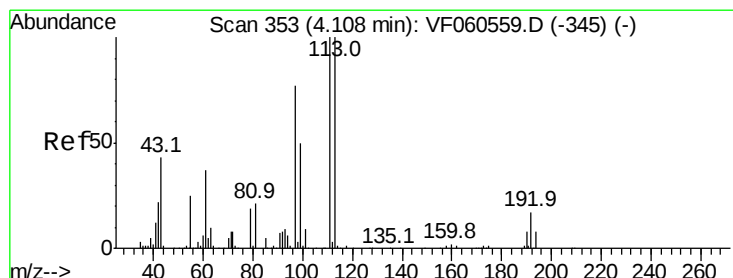
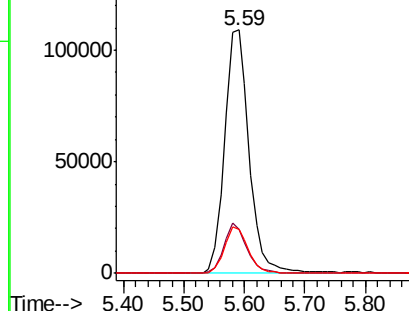
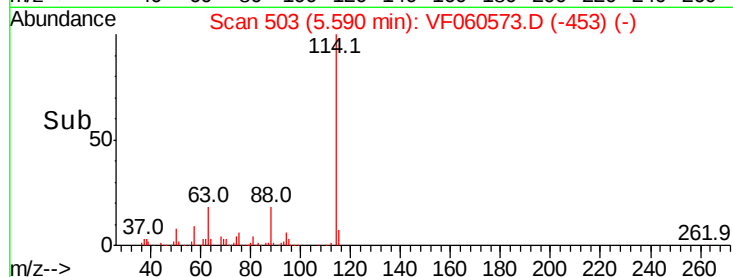
88 18.1 0.0 38.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 42.811 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

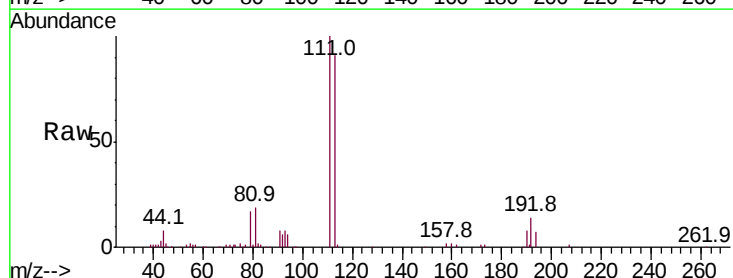
Tgt Ion:113 Resp: 101444

Ion Ratio Lower Upper

113 100

111 109.7 79.9 119.9

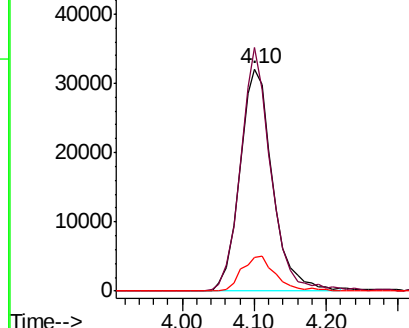
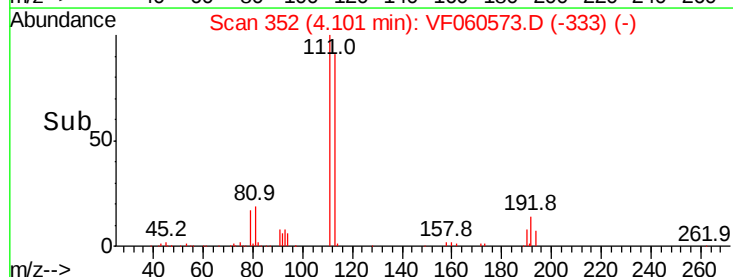
192 15.5 13.3 19.9

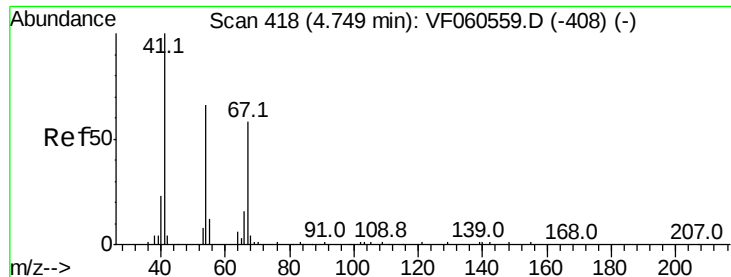


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

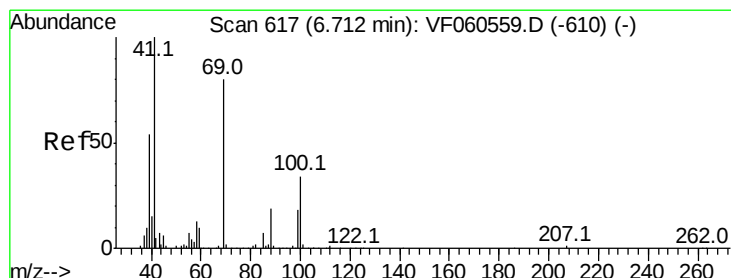
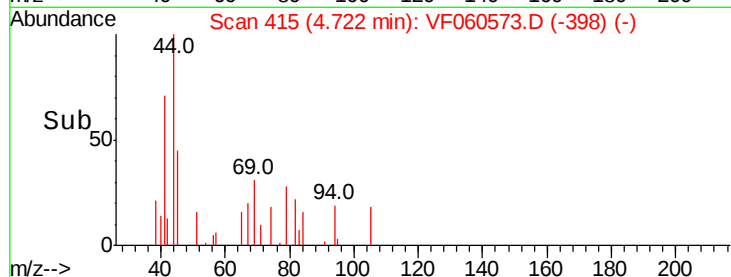
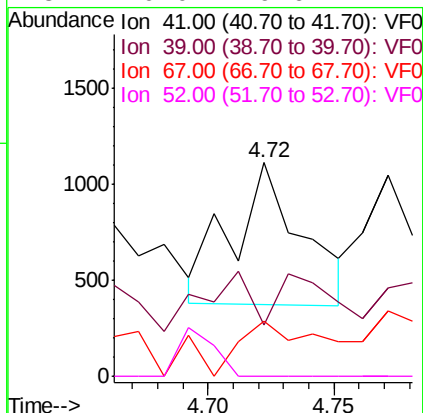
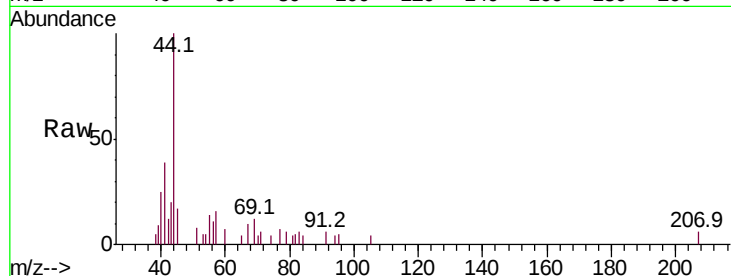




#41
Methacrylonitrile
Concen: 1.546 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.03 min
Lab File: VF060573.D
Acq: 5 Nov 2018 15:26

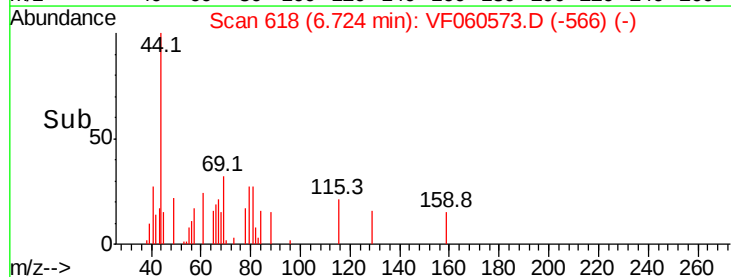
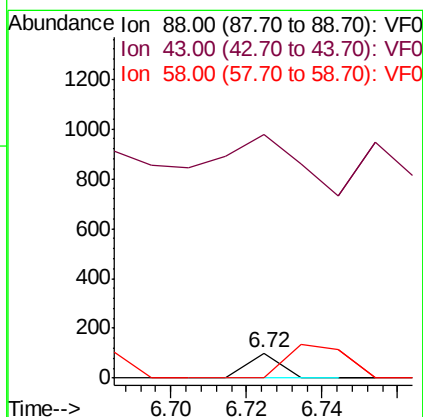
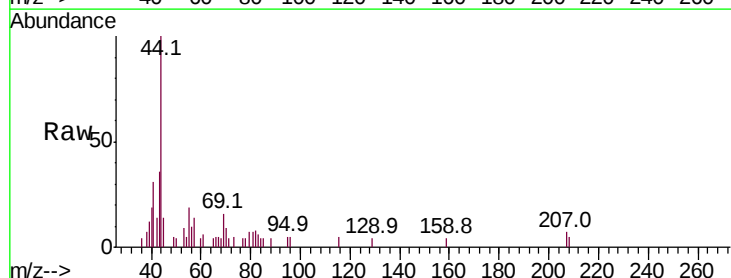
Instrument :
MSVOA_F
ClientSampleId :
TP-1-SRE

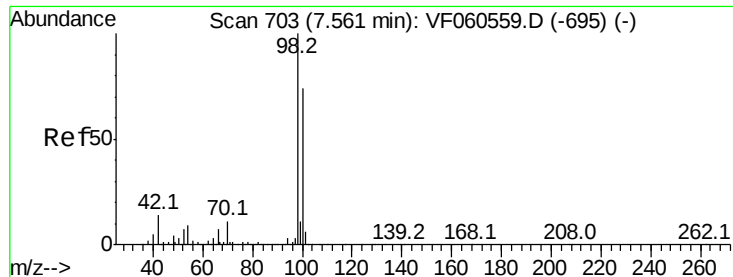
Tot Ion:	41	Resp:	1419
Ion	Ratio	Lower	Upper
41	100		
39	23.9	45.6	68.4#
67	25.9	45.3	67.9#
52	0.0	29.6	44.4#



#49
1,4-Dioxane
Concen: 4.376 ug/l
RT: 6.72 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF060573.D
Acq: 5 Nov 2018 15:26

Tgt Ion:	88	Resp:	59
Ion	Ratio	Lower	Upper
88	100		
43	977.0	61.2	91.8#
58	0.0	56.9	85.3#





#50

Toluene-d8

Concen: 32.687 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

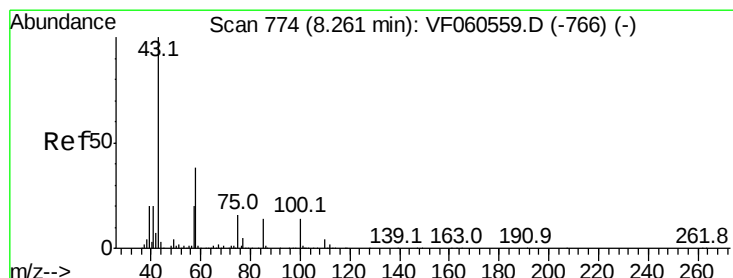
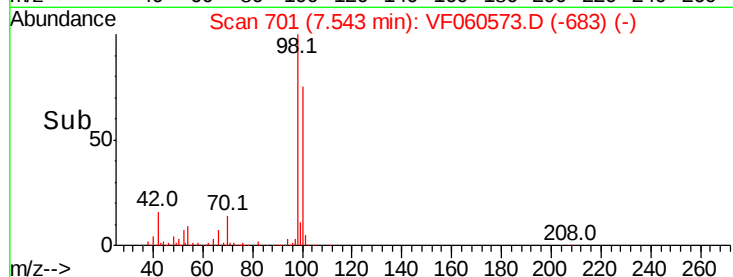
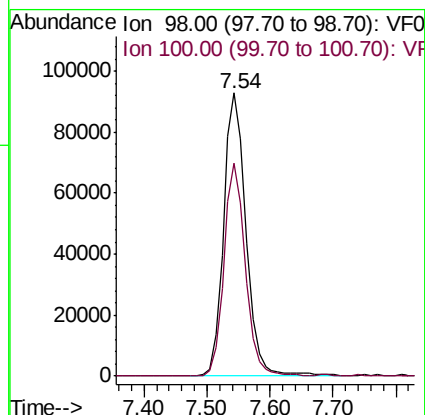
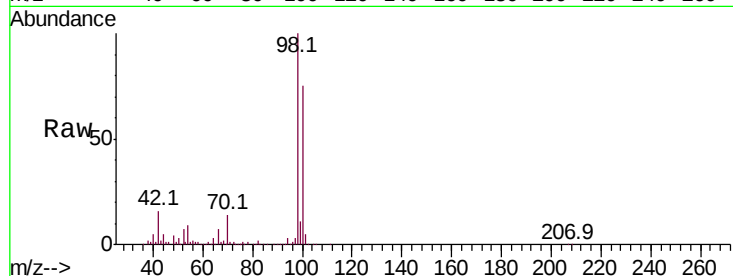
TP-1-SRE

Tot Ion: 98 Resp: 229445

Ion Ratio Lower Upper

98 100

100 75.3 59.4 89.2



#51

4-Methyl-2-Pentanone

Concen: 4.305 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.02 min

Lab File: VF060573.D

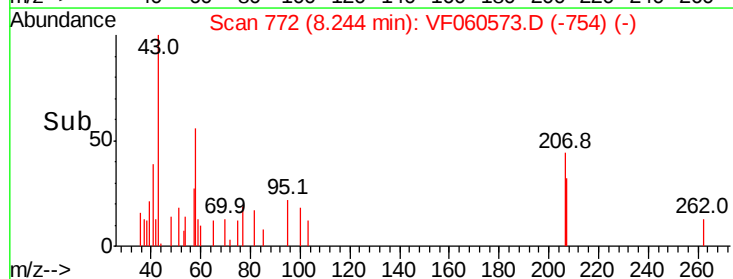
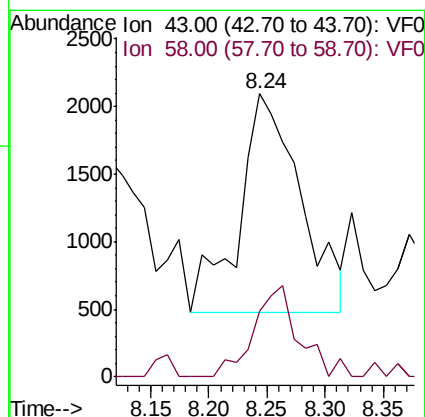
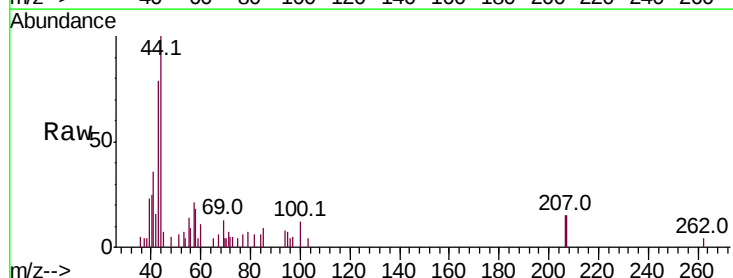
Acq: 5 Nov 2018 15:26

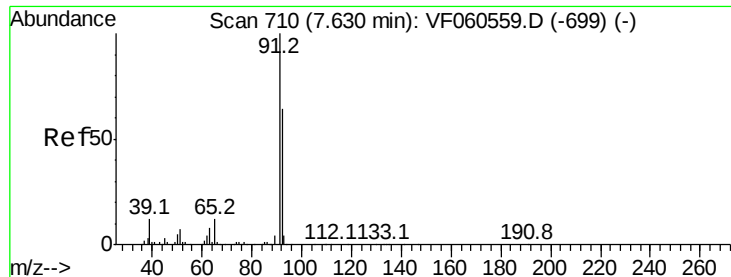
Tgt Ion: 43 Resp: 5937

Ion Ratio Lower Upper

43 100

58 23.2 30.1 45.1#

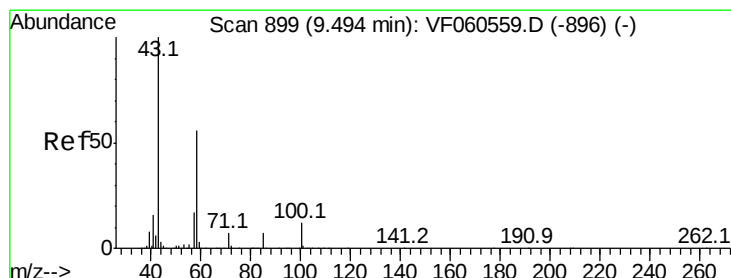
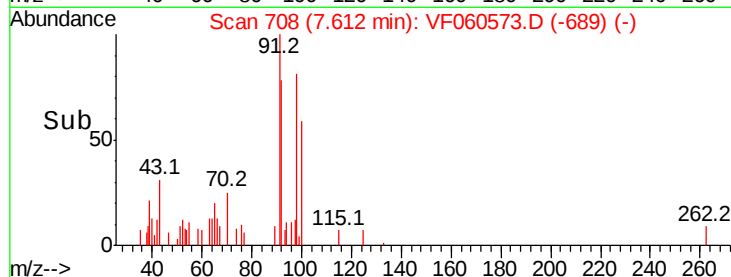
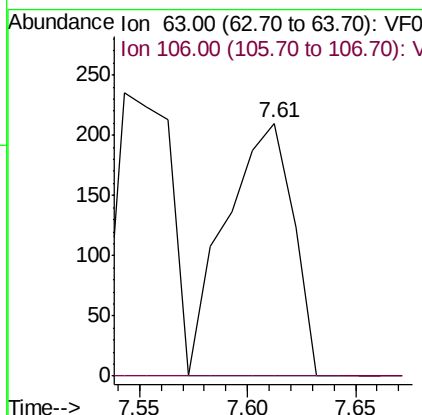
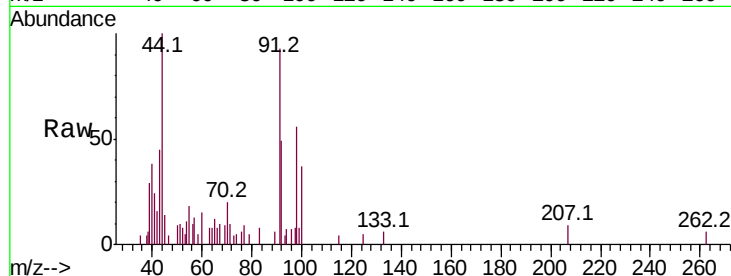




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 7.61 min Scan# 708
Delta R.T. -0.02 min
Lab File: VF060573.D
Acq: 5 Nov 2018 15:26

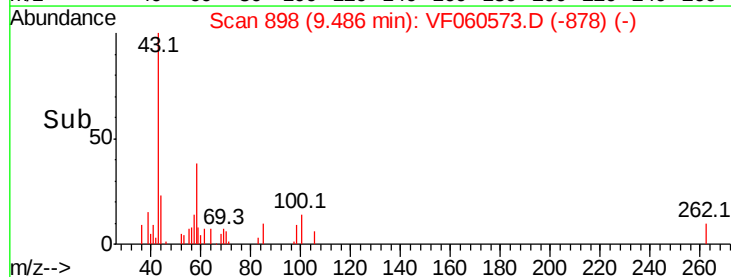
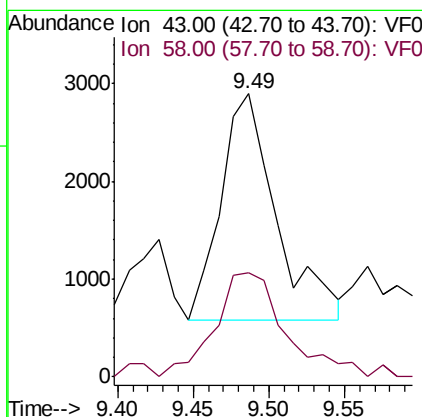
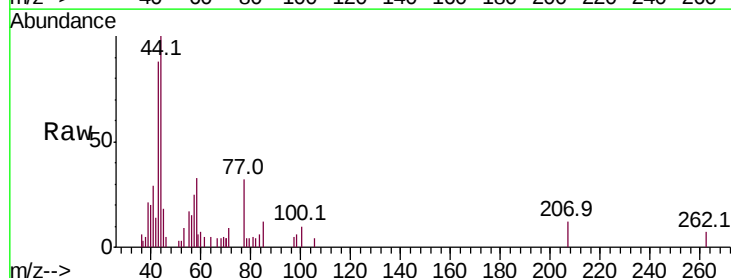
Instrument :
MSVOA_F
ClientSampleId :
TP-1-SRE

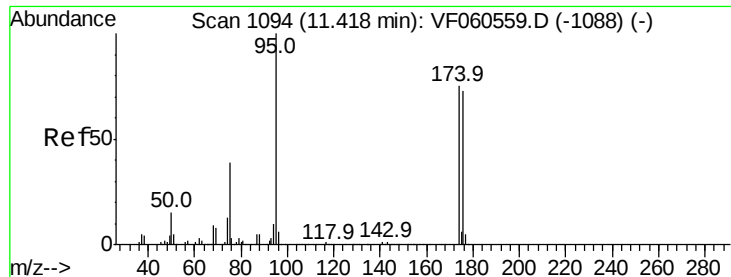
Tot Ion: 63 Resp: 453
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: Below Cal
RT: 9.49 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF060573.D
Acq: 5 Nov 2018 15:26

Tgt Ion: 43 Resp: 5894
Ion Ratio Lower Upper
43 100
58 36.8 26.1 78.3

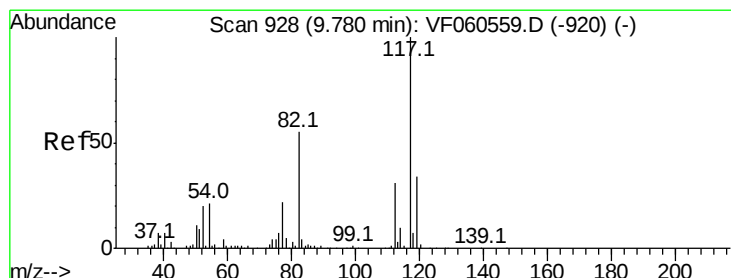
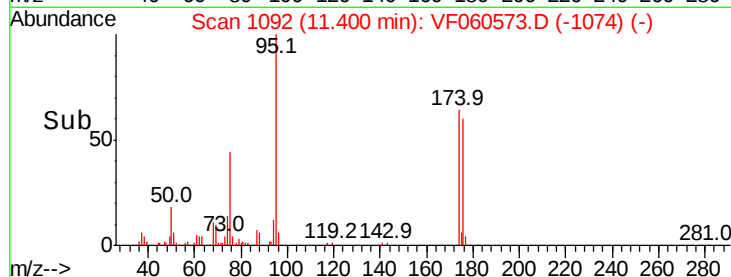
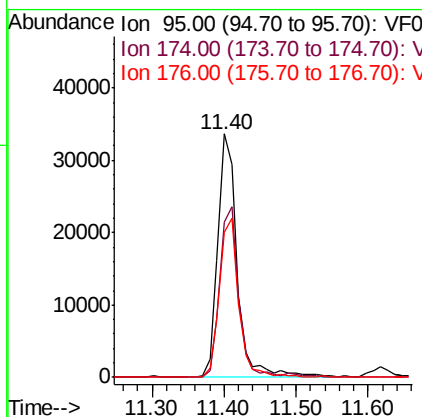
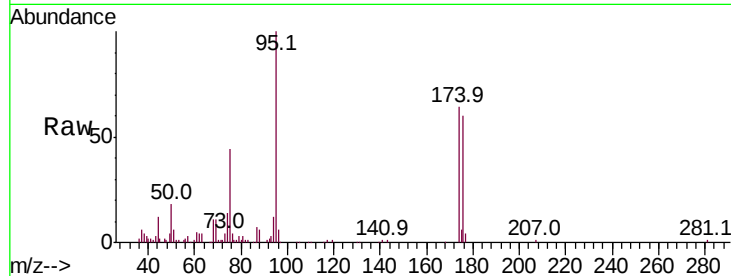




#62
4-Bromofluorobenzene
Concen: 20.375 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.02 min
Lab File: VF060573.D
Acq: 5 Nov 2018 15:26

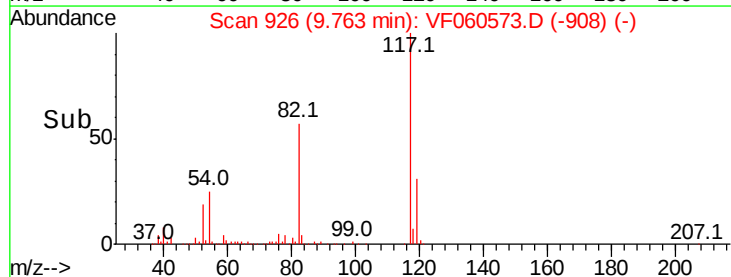
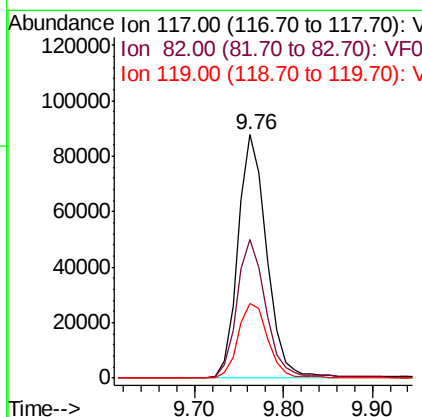
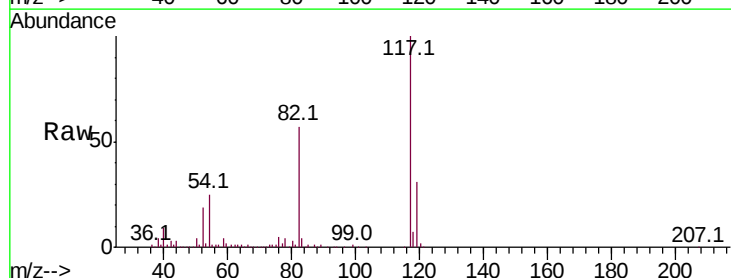
Instrument :
MSVOA_F
ClientSampleId :
TP-1-SRE

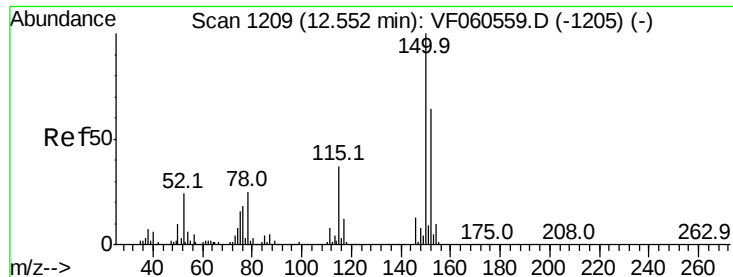
Tot Ion: 95 Resp: 62559
Ion Ratio Lower Upper
95 100
174 64.0 0.0 149.0
176 59.8 0.0 145.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.02 min
Lab File: VF060573.D
Acq: 5 Nov 2018 15:26

Tgt Ion: 117 Resp: 196992
Ion Ratio Lower Upper
117 100
82 56.8 43.9 65.9
119 30.8 27.4 41.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

TP-1-SRE

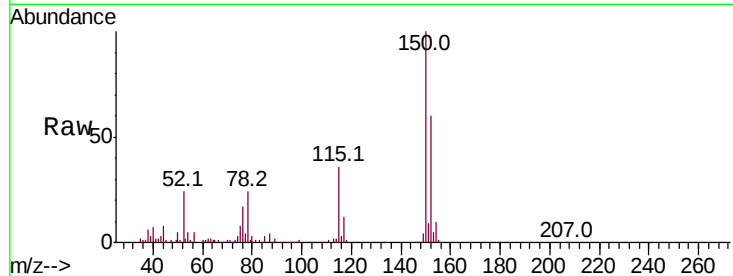
Tot Ion:152 Resp: 51323

Ion Ratio Lower Upper

152 100

115 60.2 29.6 88.8

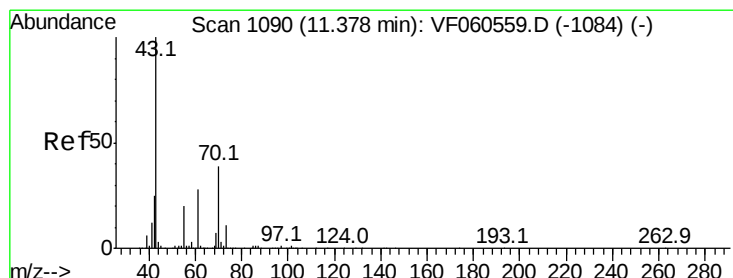
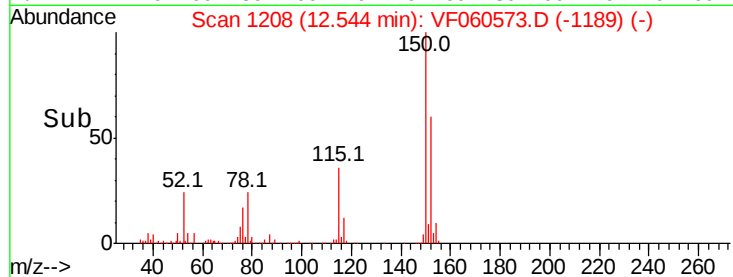
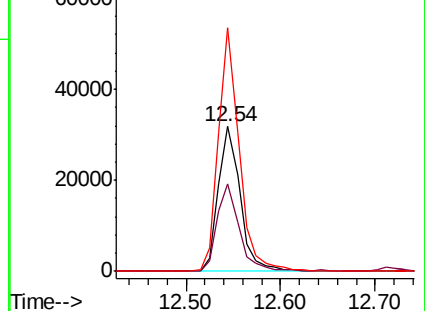
150 168.0 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: Below Cal

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Tgt Ion: 43 Resp: 1882

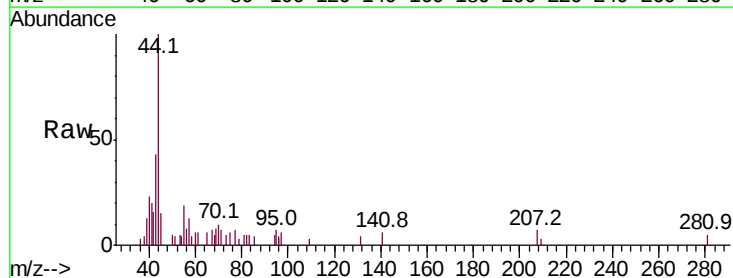
Ion Ratio Lower Upper

43 100

70 24.2 30.9 46.3#

55 43.7 16.6 24.8#

61 13.1 22.0 33.0#

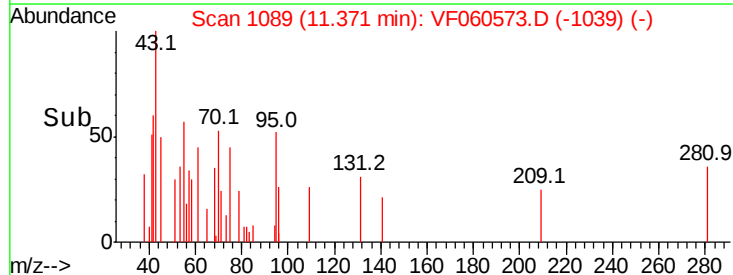
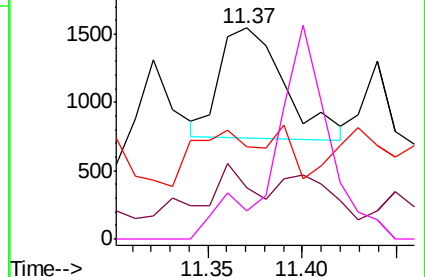


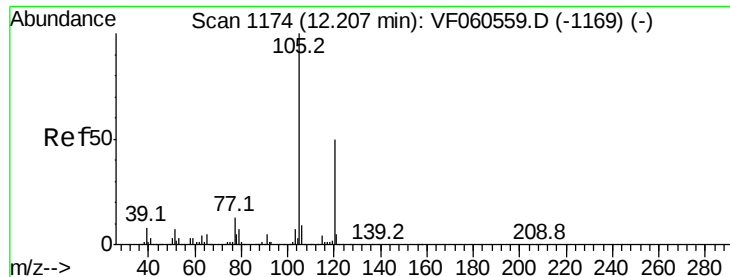
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#84

1,2,4-Trimethylbenzene

Concen: 1.104 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. -0.01 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

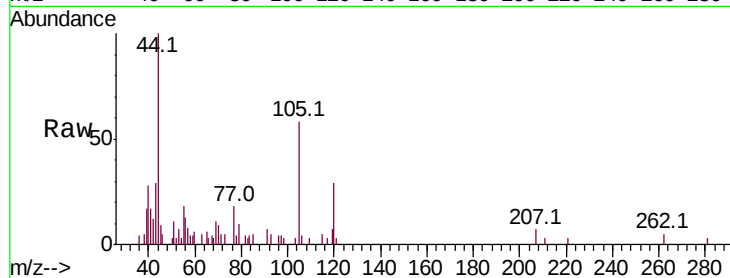
TP-1-SRE

Tot Ion:105 Resp: 3568

Ion Ratio Lower Upper

105 100

120 51.0 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

2500

2000

1500

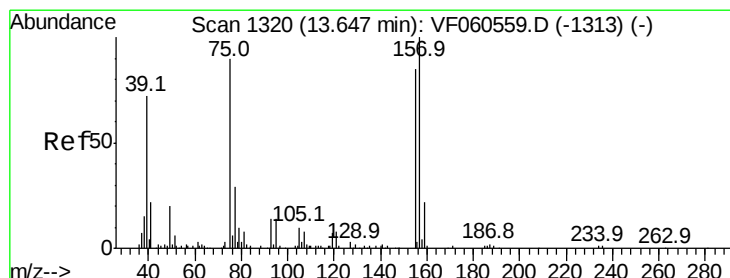
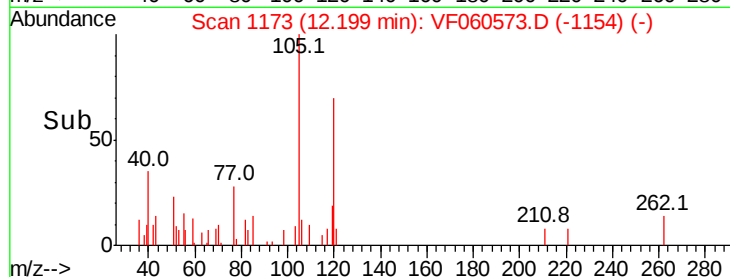
1000

500

0

12.15 12.20 12.25

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.237 ug/l

RT: 13.65 min Scan# 1320

Delta R.T. 0.00 min

Lab File: VF060573.D

Acq: 5 Nov 2018 15:26

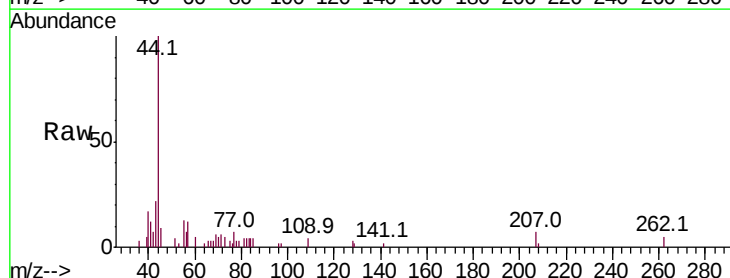
Tgt Ion: 75 Resp: 157

Ion Ratio Lower Upper

75 100

155 0.0 47.3 141.8#

157 0.0 55.3 165.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

200

150

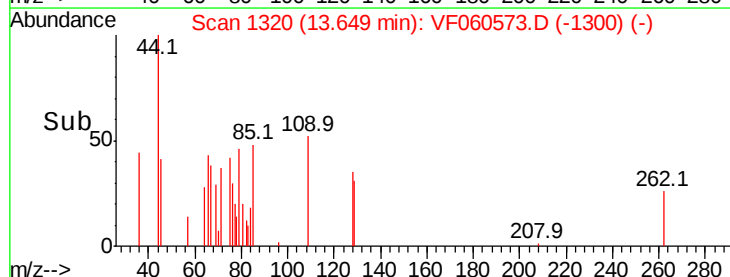
100

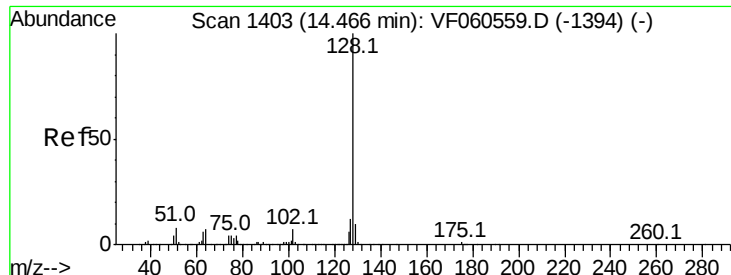
50

0

13.60 13.65 13.70

Time-->





#95
Naphthalene
Concen: 3.527 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.02 min
Lab File: VF060573.D
Acq: 5 Nov 2018 15:26

Instrument :
MSVOA_F
ClientSampleId :
TP-1-SRE

Tot Ion:128 Resp: 7713
Ion Ratio Lower Upper
128 100
127 8.3 9.4 14.0#
129 11.4 8.4 12.6

