

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060574.D
 Acq On : 5 Nov 2018 15:55
 Operator : VA/AP
 Sample : J5755-07RE
 Misc : 6.35/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-2A-S

Quant Time: Nov 05 15:39:37 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	4.85	168	235382	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.58	114	483073	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	416026	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	189678	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	124406	52.31	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	104.62%	
35) Dibromofluoromethane	4.10	113	157725	42.26	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	84.52%	
50) Toluene-d8	7.55	98	401354	36.30	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	72.60%	
62) 4-Bromofluorobenzene	11.40	95	177989	36.80	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	73.60%	

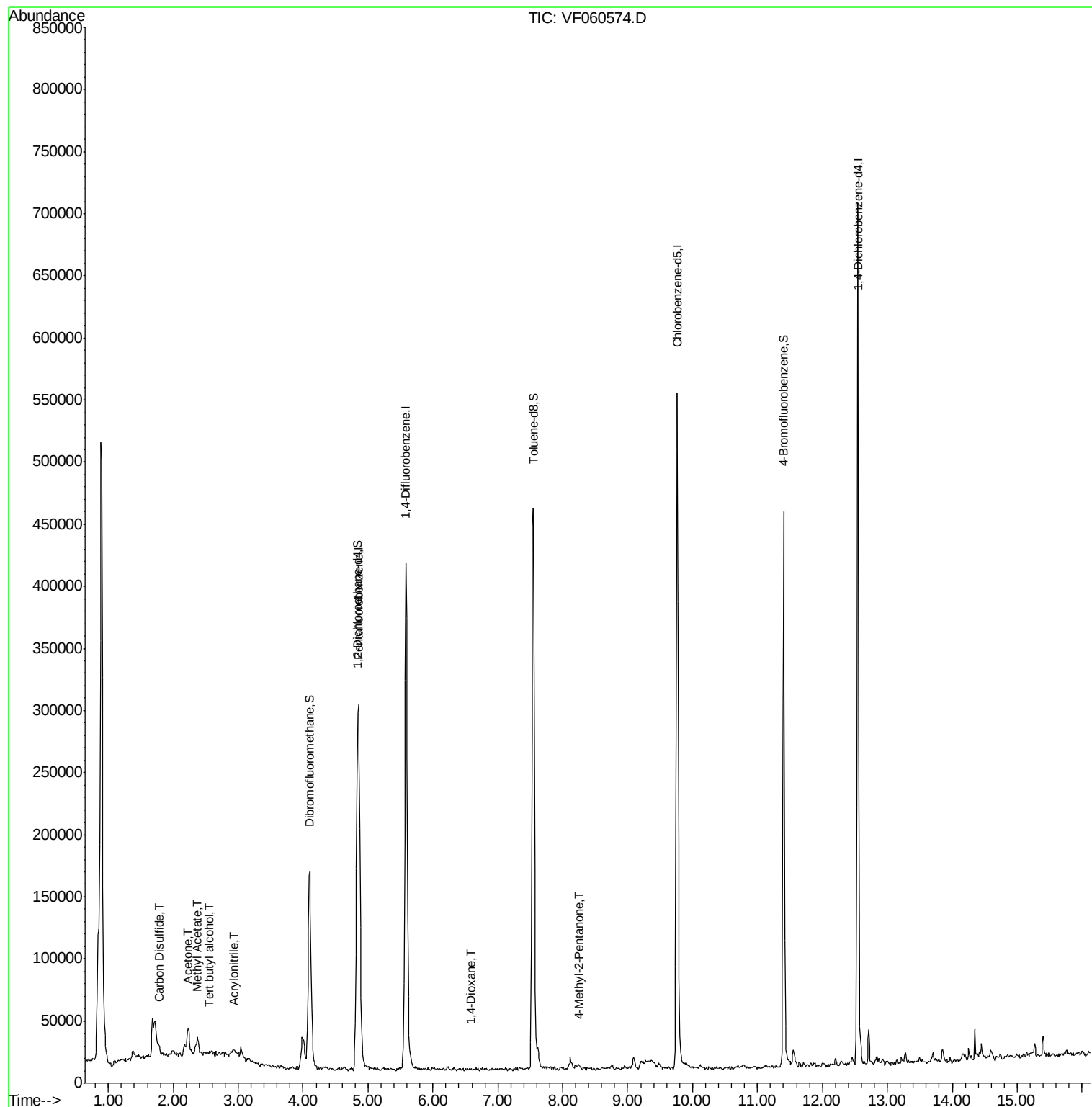
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	1072	Below Cal	#	41
6) Chloroethane	1.38	64	72	Below Cal	#	40
11) Tert butyl alcohol	2.56	59	1576	6.041	ug/l #	1
13) Acrolein	1.99	56	582	Below Cal	#	46
15) Acrylonitrile	2.92	53	625	2.205	ug/l #	56
16) Acetone	2.23	43	32828	58.579	ug/l	95
17) Carbon Disulfide	1.80	76	6233	1.294	ug/l #	82
18) Methyl Acetate	2.37	43	8806	10.498	ug/l #	71
20) Methylene Chloride	2.18	84	3719	Below Cal	#	86
25) 2-Butanone	4.32	43	6399	Below Cal		98
29) Tetrahydrofuran	4.07	42	2387	Below Cal	#	85
49) 1,4-Dioxane	6.59	88	60	2.826	ug/l #	1
51) 4-Methyl-2-Pentanone	8.25	43	3703	1.705	ug/l #	74
58) 2-Chloroethyl Vinyl ether	7.59	63	1541	Below Cal		100
59) 2-Hexanone	9.48	43	5211	Below Cal		73
74) N-amyl acetate	11.36	43	1033	Below Cal	#	77
89) n-Butylbenzene	12.84	91	2592	Below Cal		71

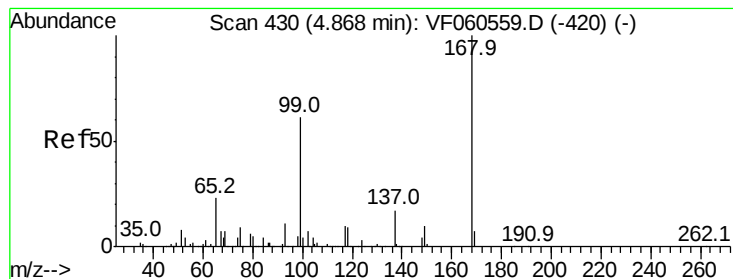
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

Instrument :

MSVOA_F

ClientSampleId :

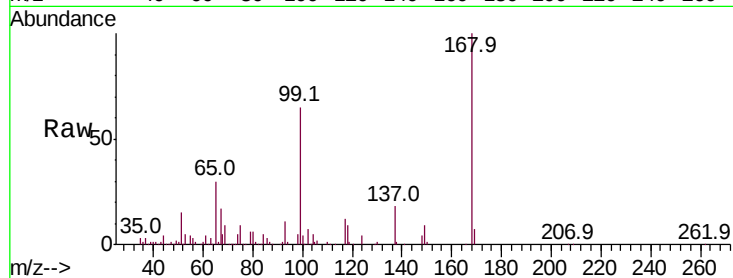
TP-2A-S

Tot Ion:168 Resp: 235382

Ion Ratio Lower Upper

168 100

99 65.3 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

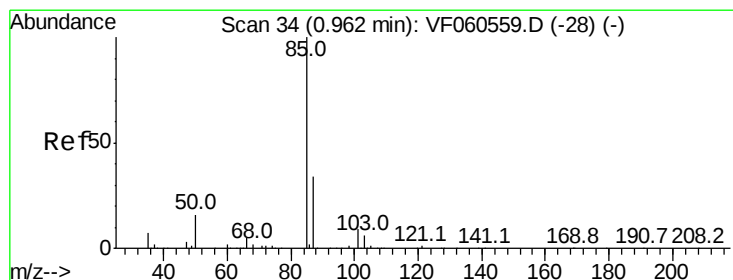
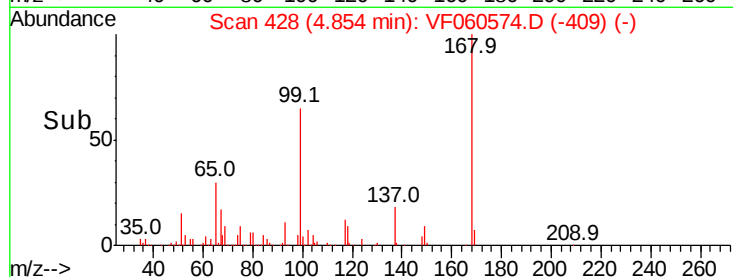
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF060574.D

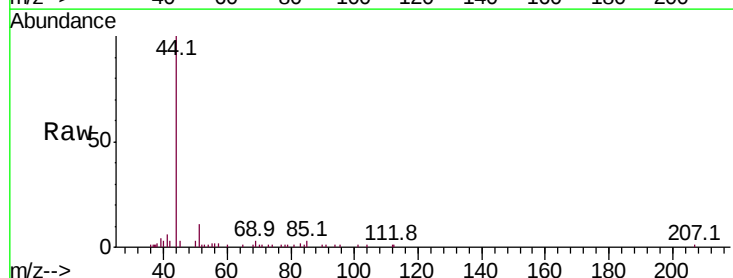
Acq: 5 Nov 2018 15:55

Tgt Ion: 85 Resp: 1072

Ion Ratio Lower Upper

85 100

87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

500

400

300

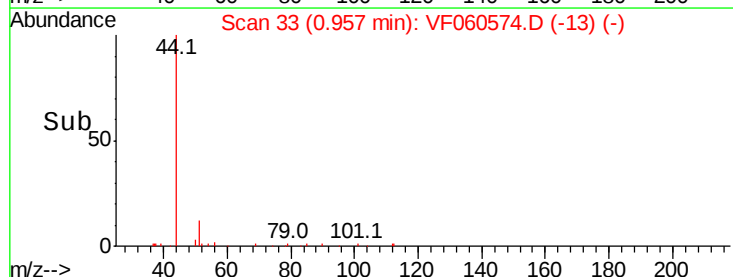
200

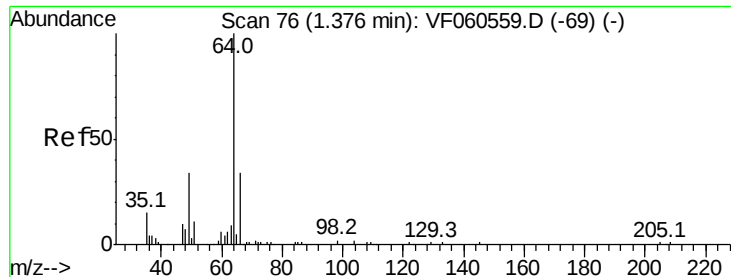
100

0

Time-->

0.90 0.95 1.00 1.05





#6

Chloroethane

Concen: Below Cal

RT: 1.38 min Scan# 76

Delta R.T. 0.01 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

Instrument :

MSVOA_F

ClientSampled :

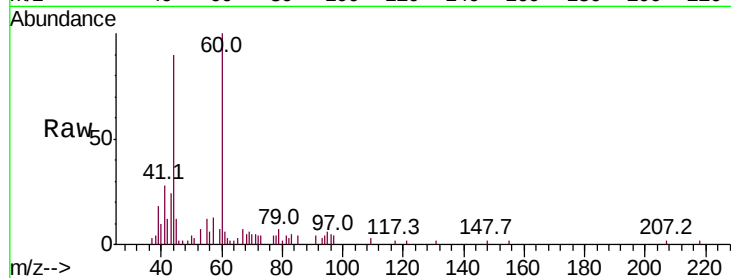
TP-2A-S

Tot Ion: 64 Resp: 72

Ion Ratio Lower Upper

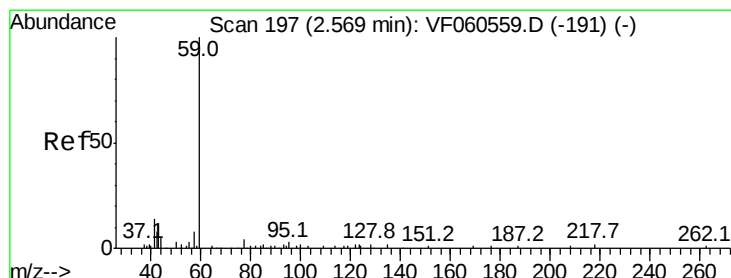
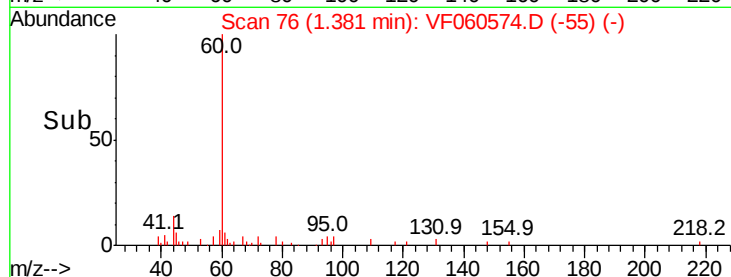
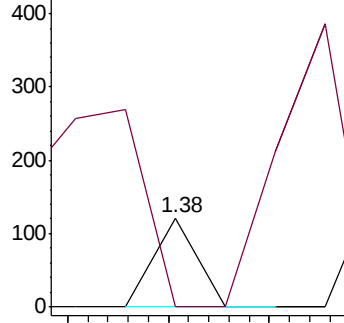
64 100

66 0.0 27.8 41.8#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#11

Tert butyl alcohol

Concen: 6.041 ug/l

RT: 2.56 min Scan# 195

Delta R.T. -0.01 min

Lab File: VF060574.D

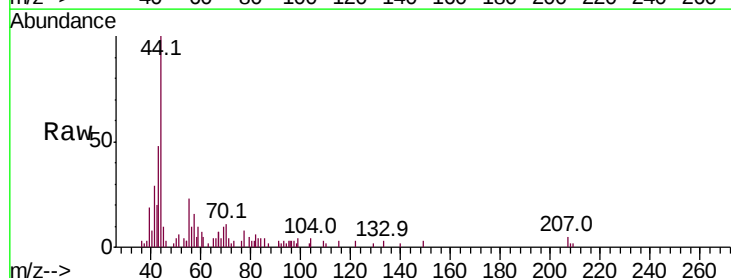
Acq: 5 Nov 2018 15:55

Tgt Ion: 59 Resp: 1576

Ion Ratio Lower Upper

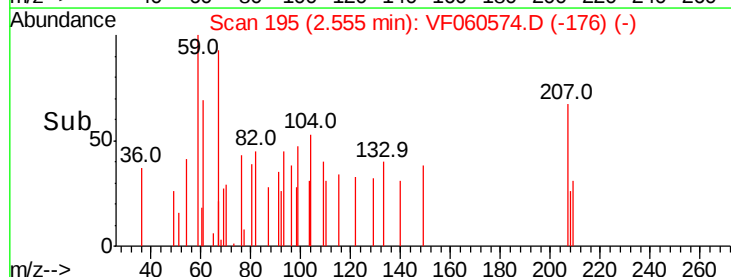
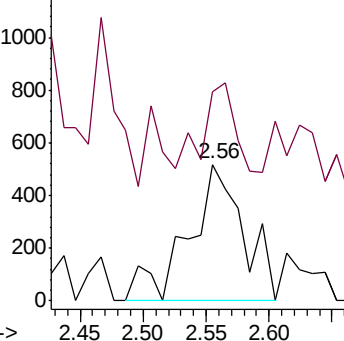
59 100

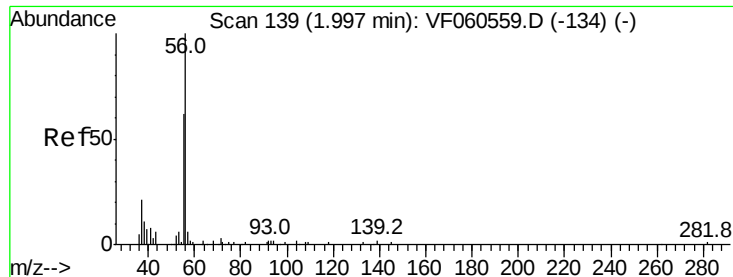
57 153.1 19.0 28.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

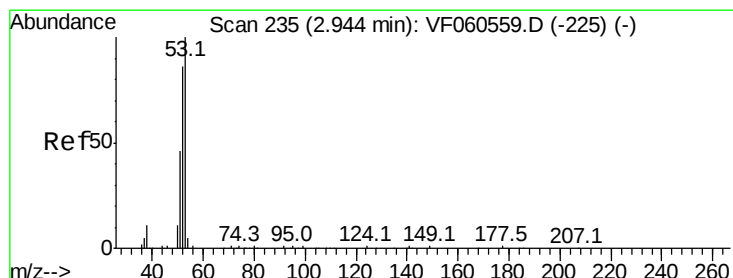
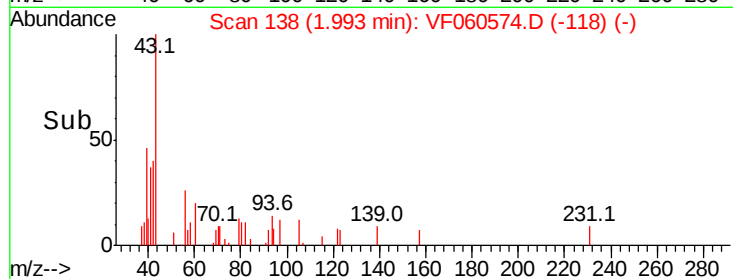
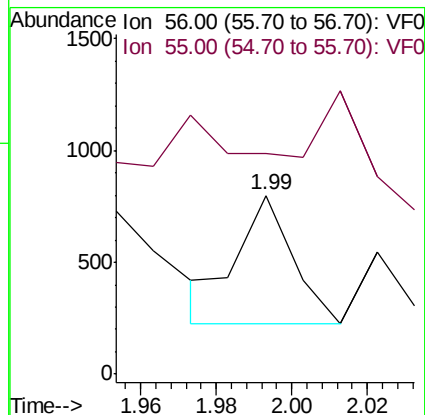
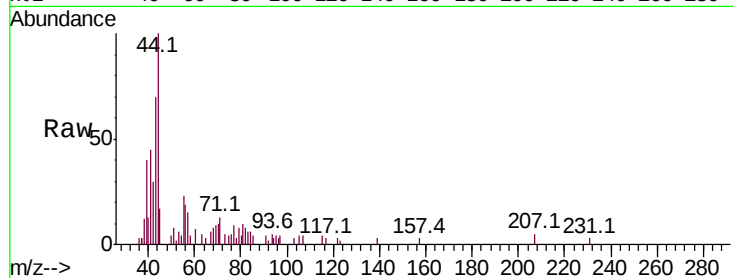
Instrument :
MSVOA_F
ClientSampled :
TP-2A-S

Tot Ion: 56 Resp: 582

Ion Ratio Lower Upper

56 100

55 123.7 61.8 92.6#



#15

Acrylonitrile

Concen: 2.205 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

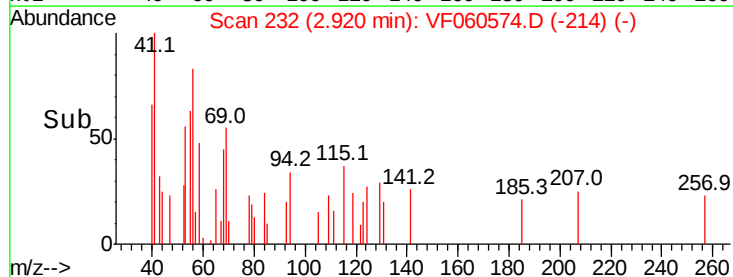
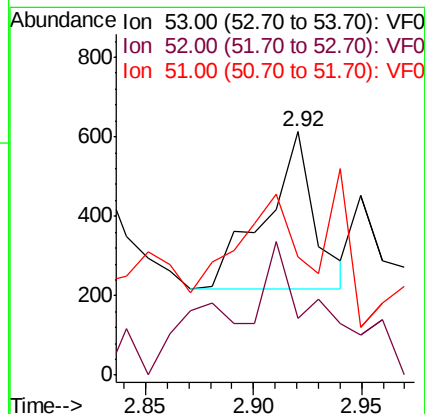
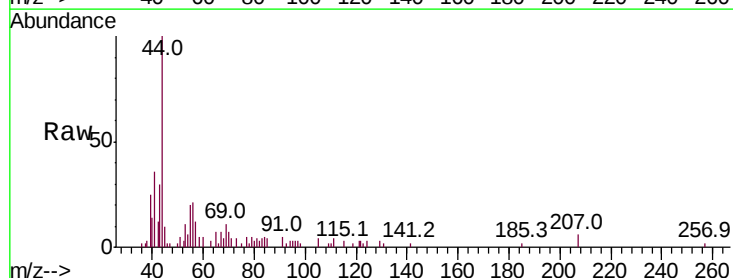
Tgt Ion: 53 Resp: 625

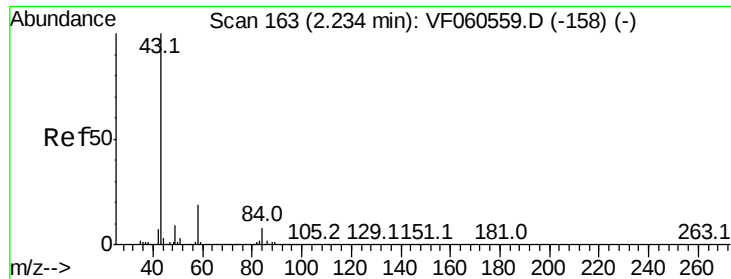
Ion Ratio Lower Upper

53 100

52 23.5 68.5 102.7#

51 48.6 38.2 57.2





#16

Acetone

Concen: 58.579 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

Instrument :

MSVOA_F

ClientSampleId :

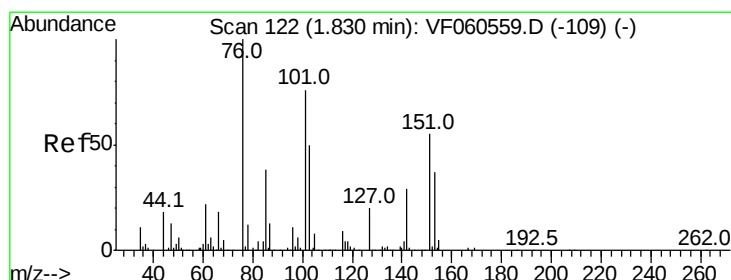
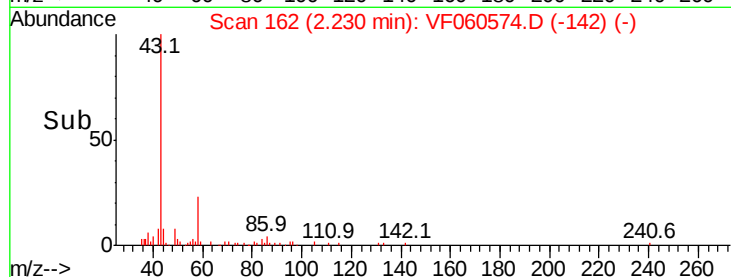
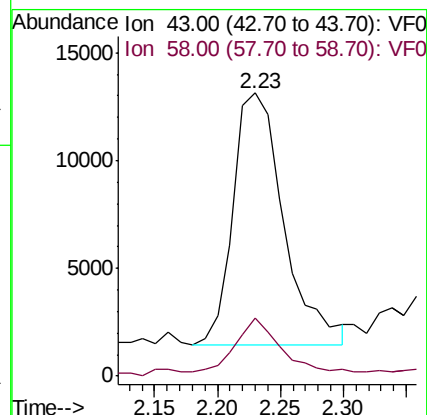
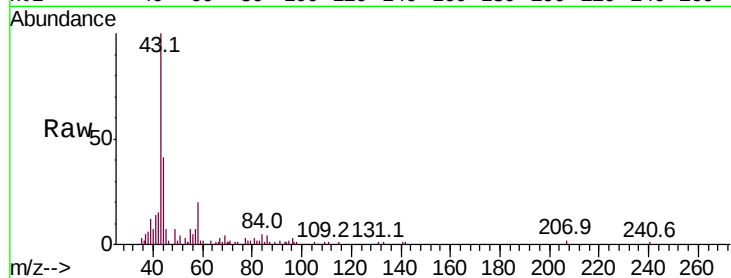
TP-2A-S

Tot Ion: 43 Resp: 32828

Ion Ratio Lower Upper

43 100

58 20.4 14.6 22.0



#17

Carbon Disulfide

Concen: 1.294 ug/l

RT: 1.80 min Scan# 118

Delta R.T. -0.03 min

Lab File: VF060574.D

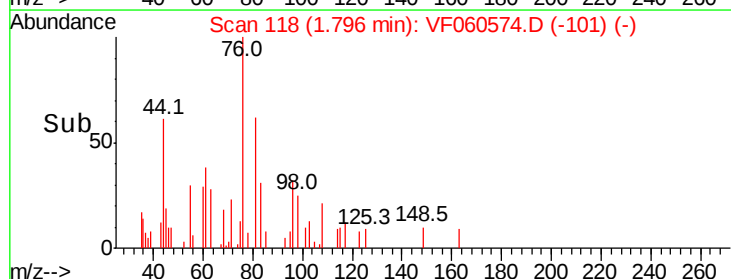
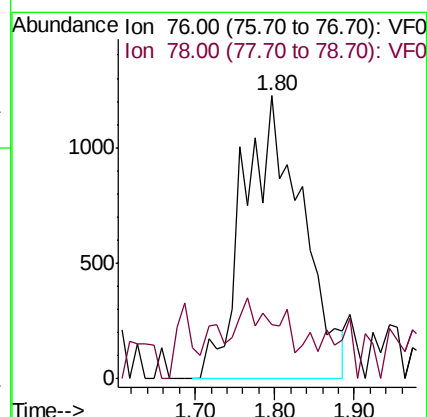
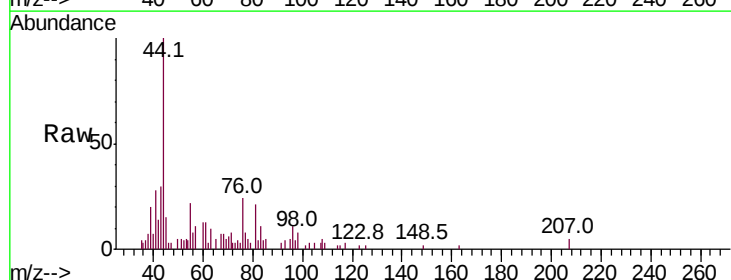
Acq: 5 Nov 2018 15:55

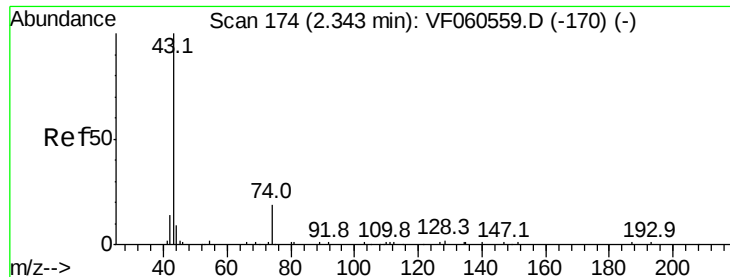
Tgt Ion: 76 Resp: 6233

Ion Ratio Lower Upper

76 100

78 19.3 9.9 14.9#

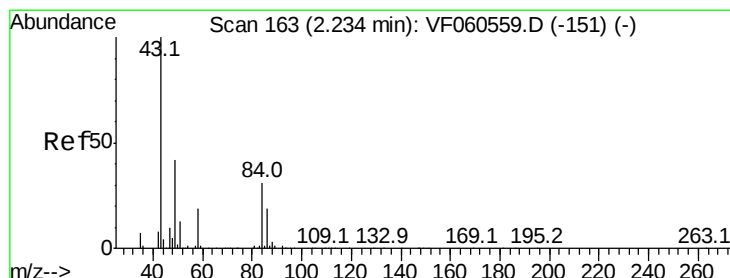
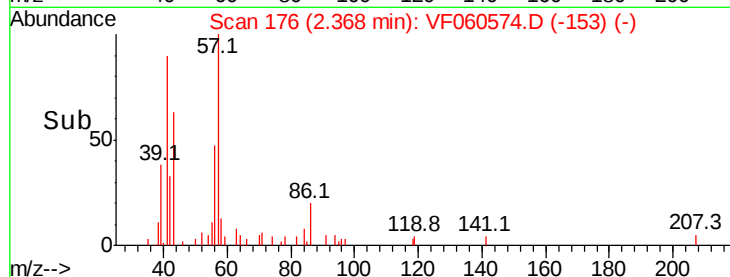
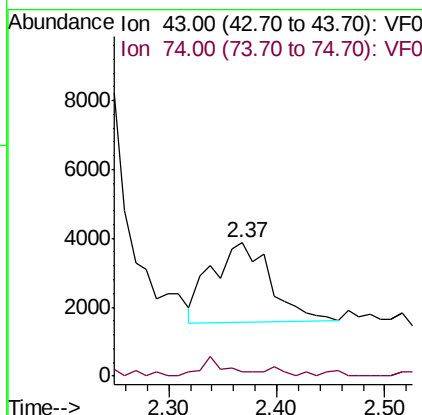
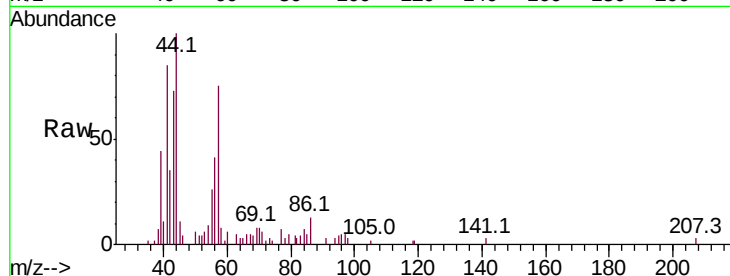




#18
Methyl Acetate
Concen: 10.498 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.03 min
Lab File: VF060574.D
Acq: 5 Nov 2018 15:55

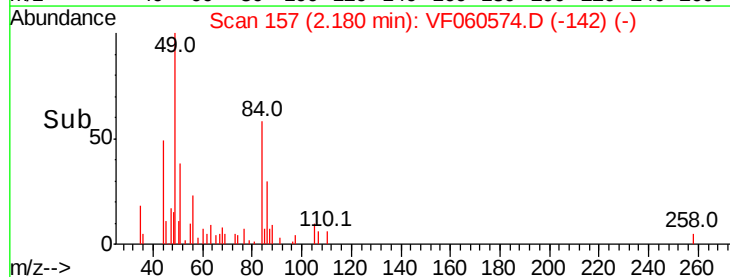
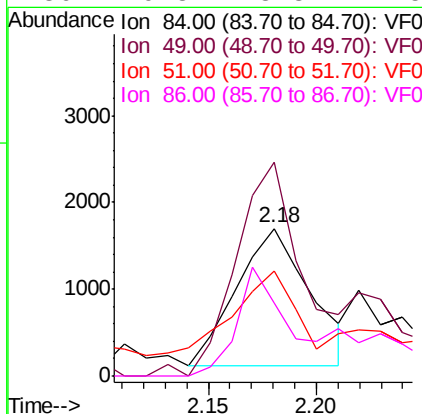
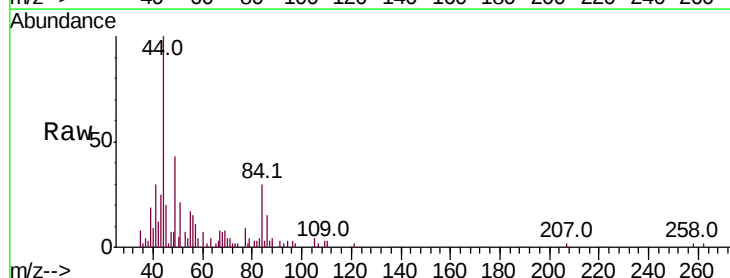
Instrument :
MSVOA_F
ClientSampleId :
TP-2A-S

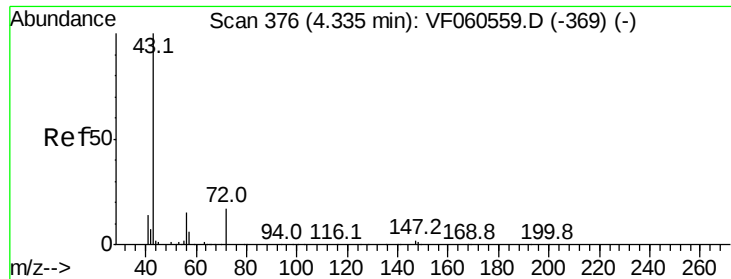
Tot Ion: 43 Resp: 8806
Ion Ratio Lower Upper
43 100
74 3.1 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.05 min
Lab File: VF060574.D
Acq: 5 Nov 2018 15:55

Tgt Ion: 84 Resp: 3719
Ion Ratio Lower Upper
84 100
49 144.9 109.9 164.9
51 70.9 35.8 53.8#
86 49.8 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.32 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

Instrument :

MSVOA_F

ClientSampleId :

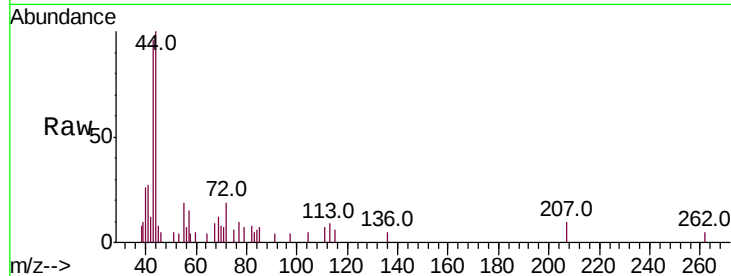
TP-2A-S

Tot Ion: 43 Resp: 6399

Ion Ratio Lower Upper

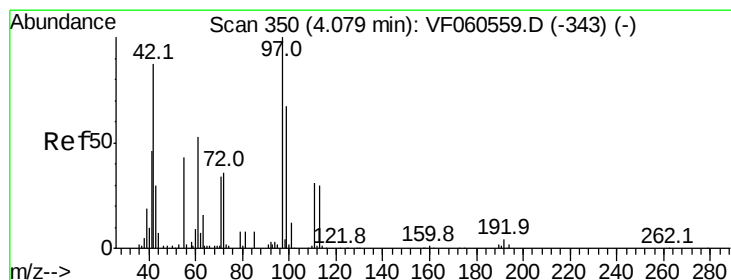
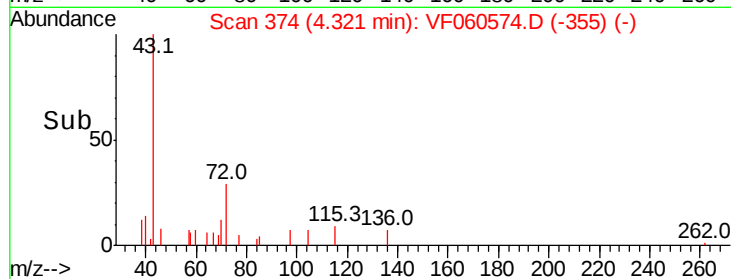
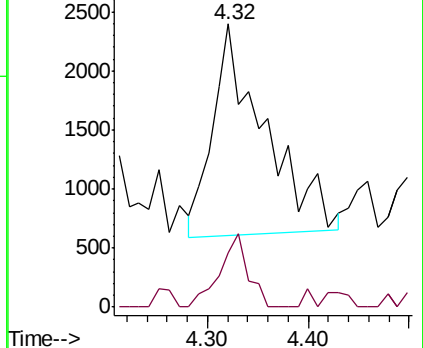
43 100

72 19.3 16.2 24.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.07 min Scan# 349

Delta R.T. -0.00 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

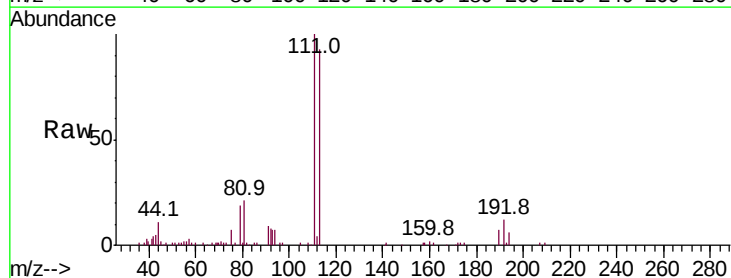
Tgt Ion: 42 Resp: 2387

Ion Ratio Lower Upper

42 100

72 20.5 31.4 47.0#

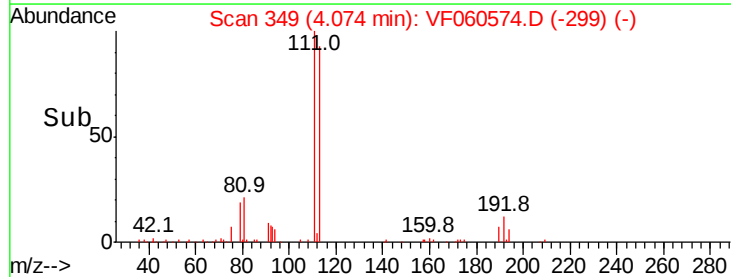
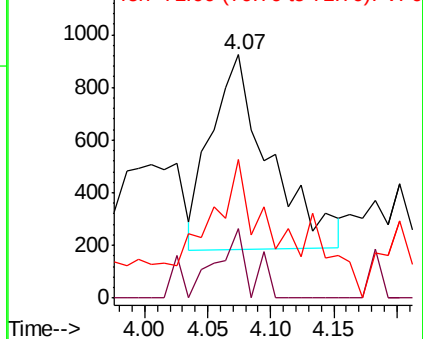
71 39.8 31.8 47.6

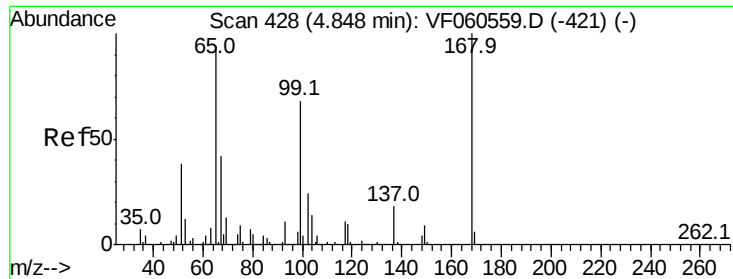


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 52.310 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.01 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

Instrument :

MSVOA_F

ClientSampleId :

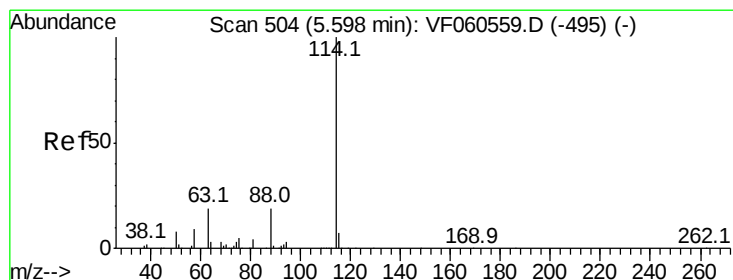
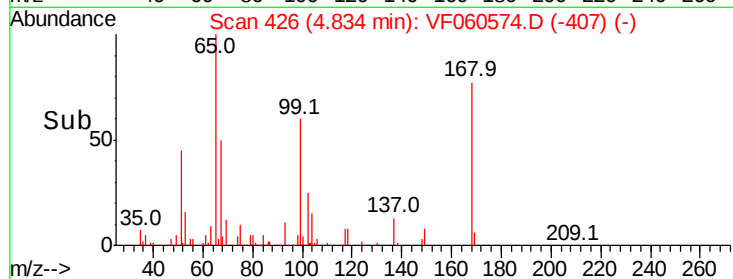
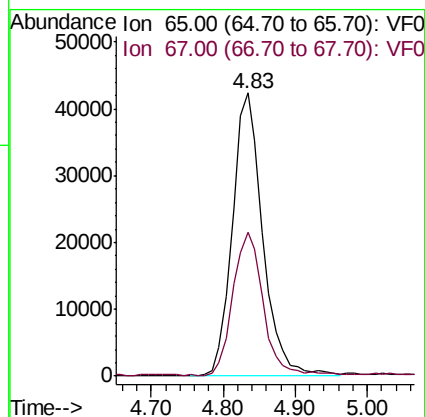
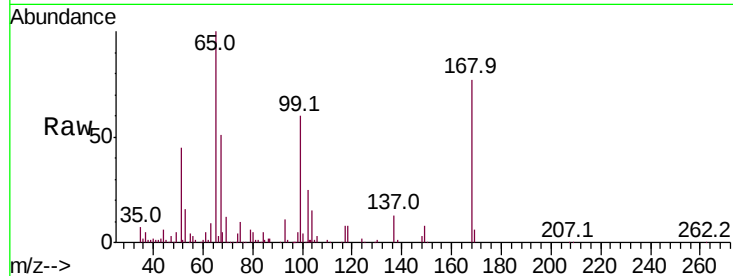
TP-2A-S

Tot Ion: 65 Resp: 124406

Ion Ratio Lower Upper

65 100

67 51.0 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

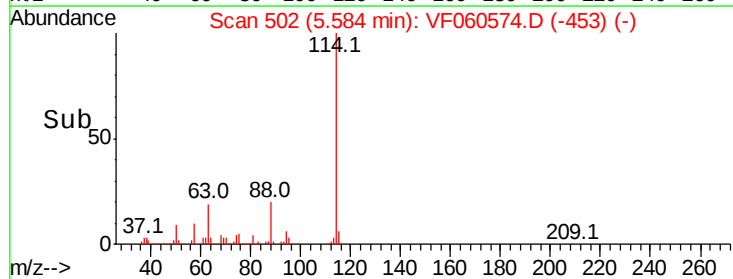
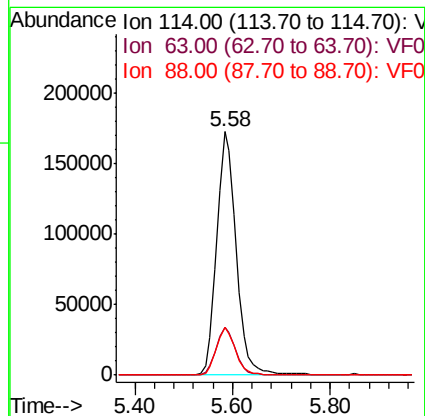
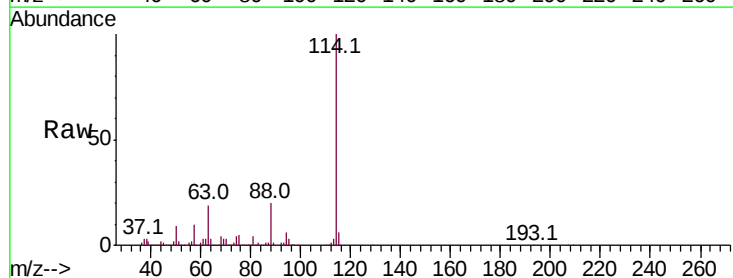
Tgt Ion: 114 Resp: 483073

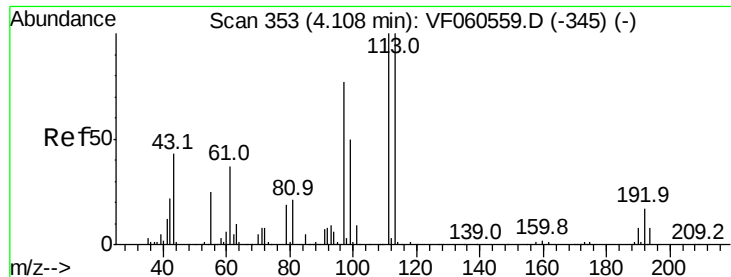
Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

88 19.8 0.0 38.2

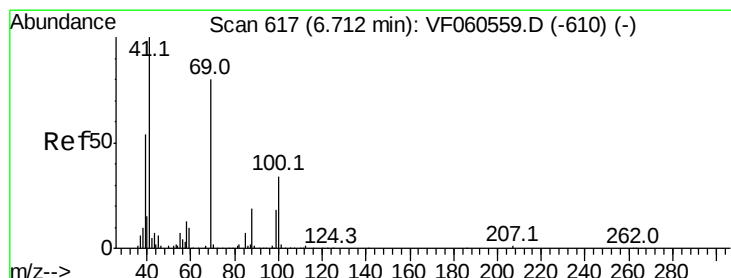
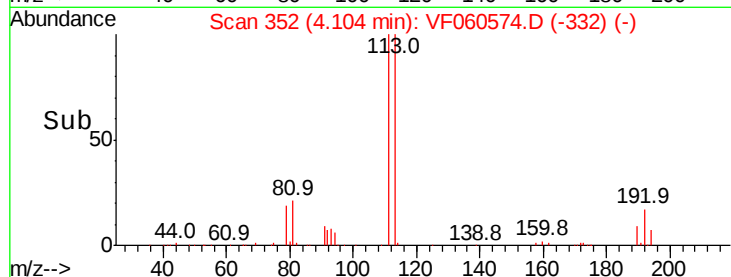
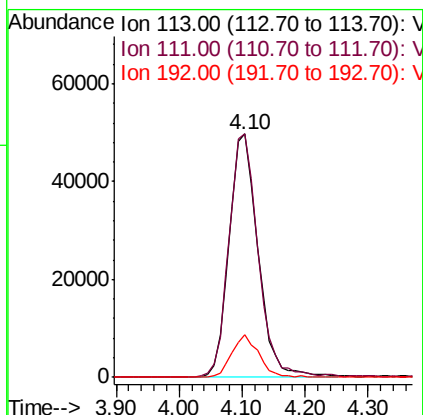
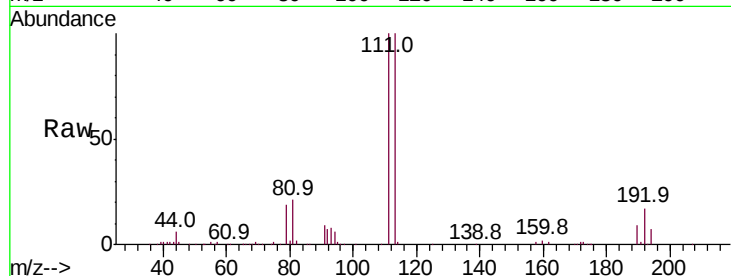




#35
 Dibromofluoromethane
 Concen: 42.261 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VF060574.D
 Acq: 5 Nov 2018 15:55

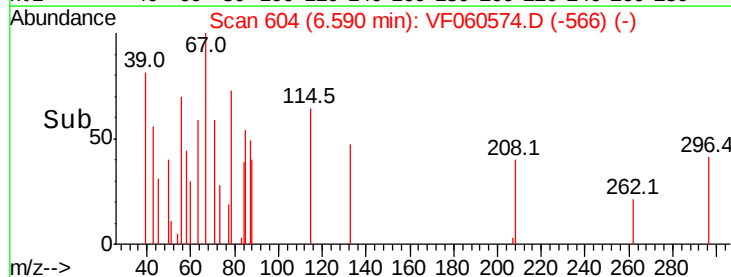
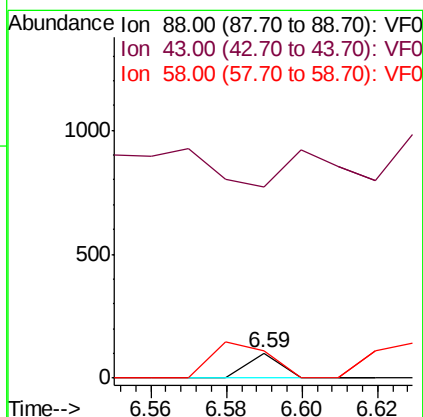
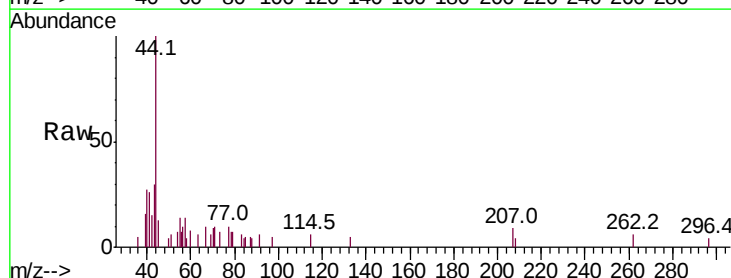
Instrument :
 MSVOA_F
 ClientSampleId :
 TP-2A-S

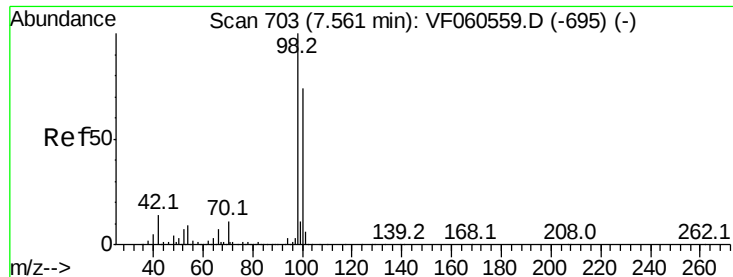
Tot Ion:113 Resp: 157725
 Ion Ratio Lower Upper
 113 100
 111 99.9 79.9 119.9
 192 17.4 13.3 19.9



#49
 1,4-Dioxane
 Concen: 2.826 ug/l
 RT: 6.59 min Scan# 604
 Delta R.T. -0.12 min
 Lab File: VF060574.D
 Acq: 5 Nov 2018 15:55

Tgt Ion: 88 Resp: 60
 Ion Ratio Lower Upper
 88 100
 43 756.9 61.2 91.8#
 58 109.8 56.9 85.3#





#50

Toluene-d8

Concen: 36.302 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

Instrument :

MSVOA_F

ClientSampleId :

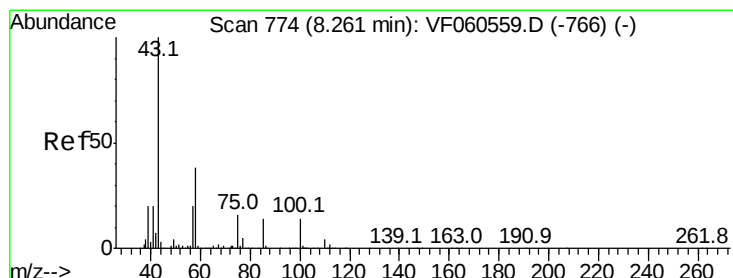
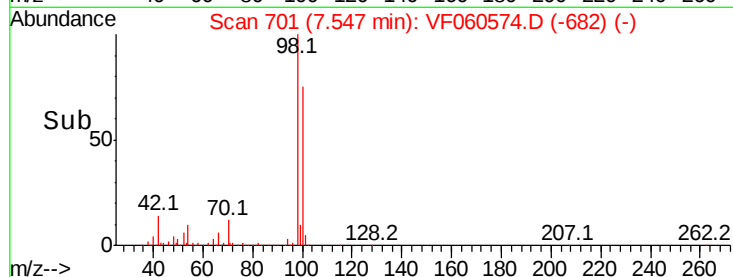
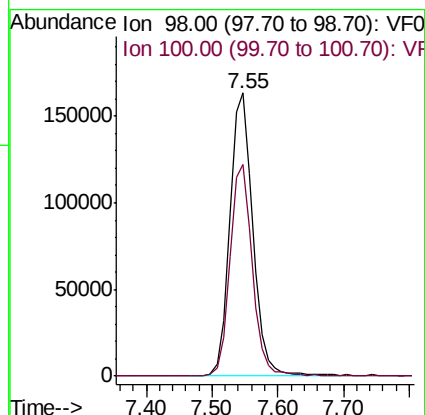
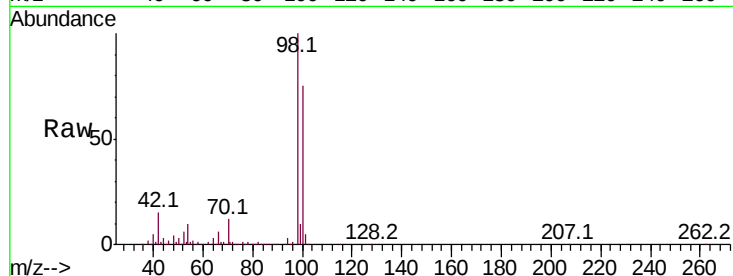
TP-2A-S

Tot Ion: 98 Resp: 401354

Ion Ratio Lower Upper

98 100

100 74.8 59.4 89.2



#51

4-Methyl-2-Pentanone

Concen: 1.705 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF060574.D

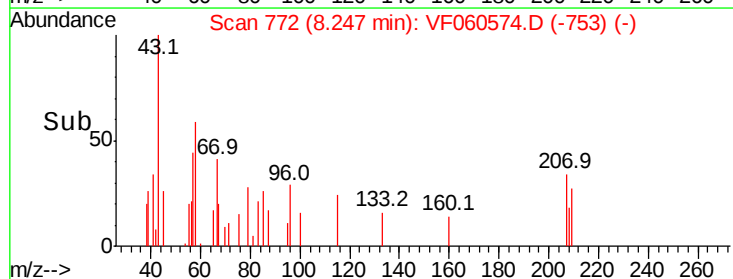
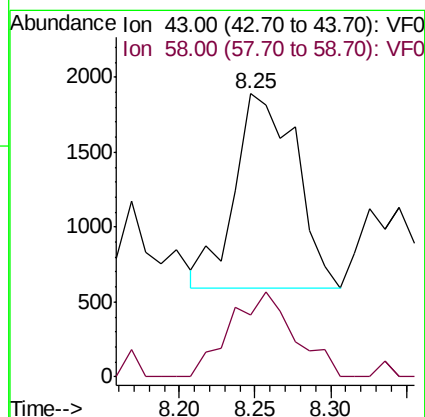
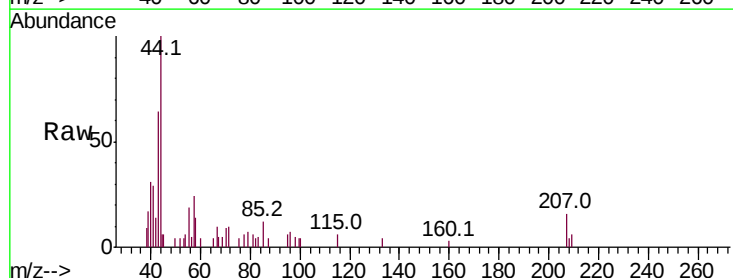
Acq: 5 Nov 2018 15:55

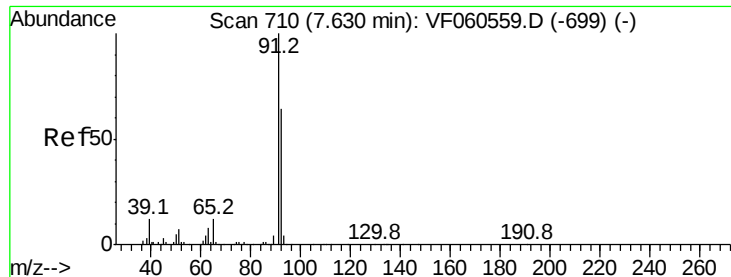
Tgt Ion: 43 Resp: 3703

Ion Ratio Lower Upper

43 100

58 21.8 30.1 45.1#

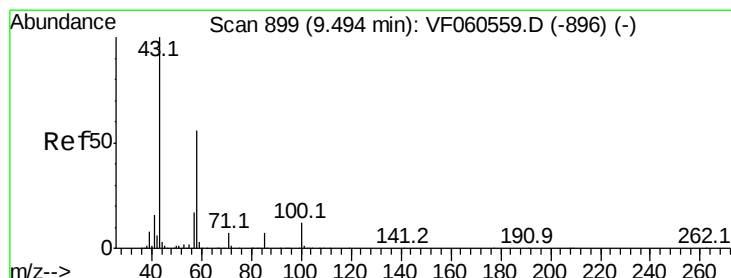
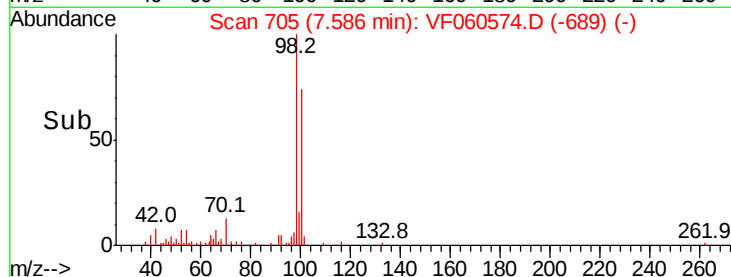
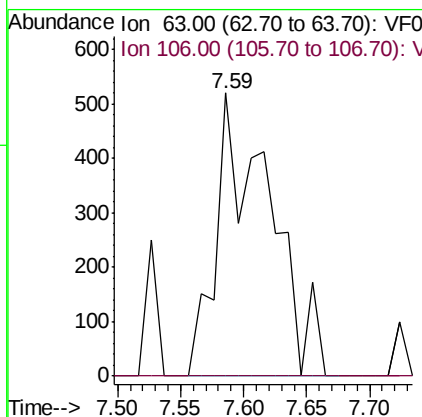
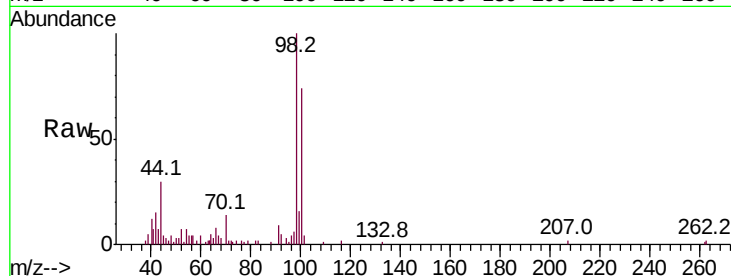




#58
2-Chloroethyl Vinyl ether
Concen: Below Cal
RT: 7.59 min Scan# 705
Delta R.T. -0.04 min
Lab File: VF060574.D
Acq: 5 Nov 2018 15:55

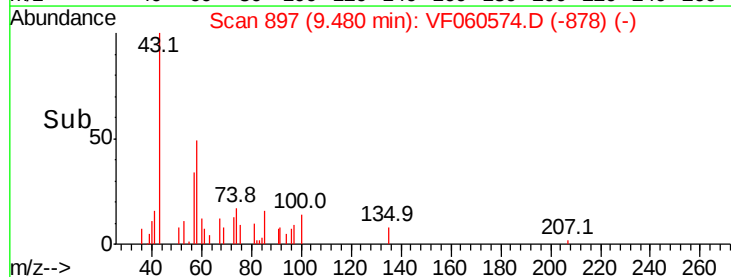
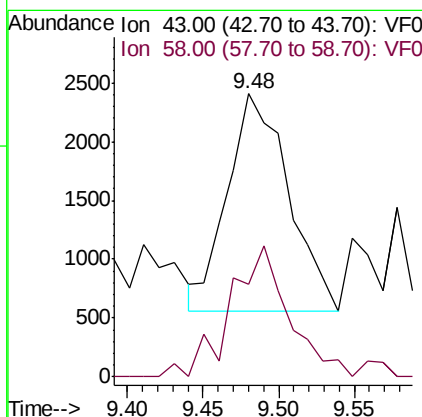
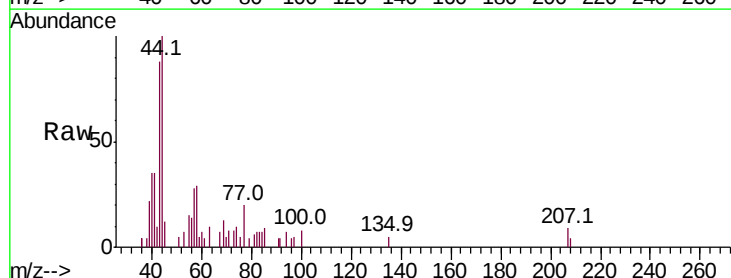
Instrument :
MSVOA_F
ClientSampleId :
TP-2A-S

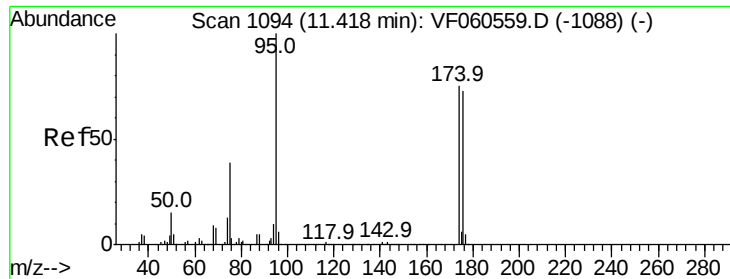
Tot Ion: 63 Resp: 1541
Ion Ratio Lower Upper
63 100
106 0.0 0.0 0.0



#59
2-Hexanone
Concen: Below Cal
RT: 9.48 min Scan# 897
Delta R.T. -0.01 min
Lab File: VF060574.D
Acq: 5 Nov 2018 15:55

Tgt Ion: 43 Resp: 5211
Ion Ratio Lower Upper
43 100
58 33.0 26.1 78.3





#62

4-Bromofluorobenzene

Concen: 36.805 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

Instrument :
MSVOA_F
ClientSampled :
TP-2A-S

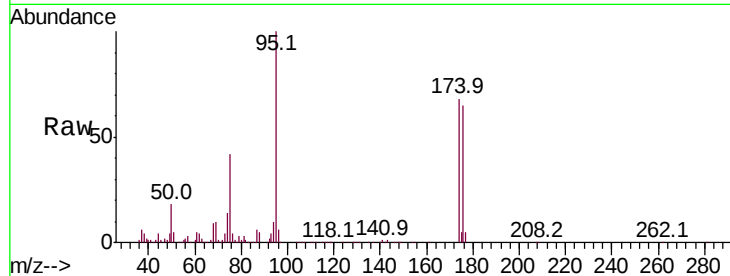
Tot Ion: 95 Resp: 177989

Ion Ratio Lower Upper

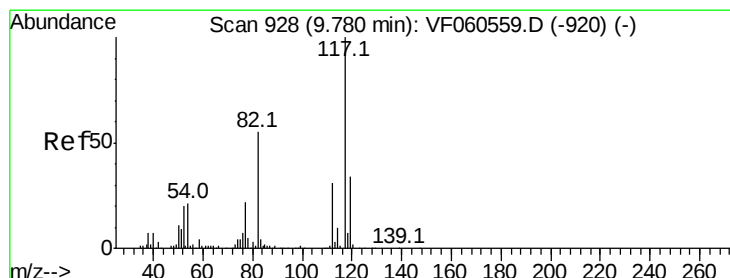
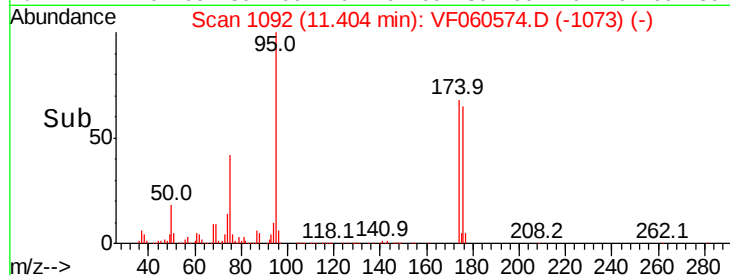
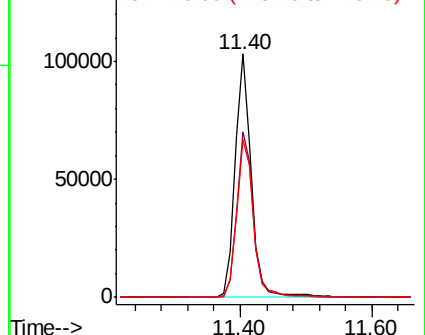
95 100

174 68.2 0.0 149.0

176 64.7 0.0 145.6



Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF060574.D

Acq: 5 Nov 2018 15:55

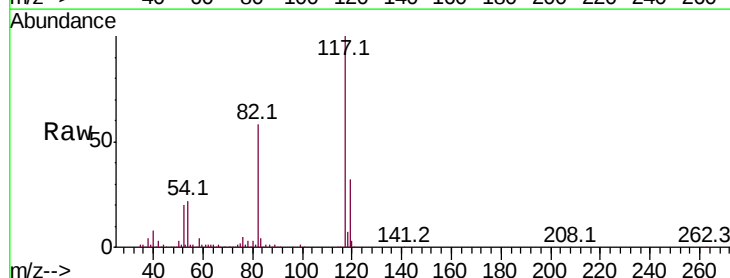
Tgt Ion: 117 Resp: 416026

Ion Ratio Lower Upper

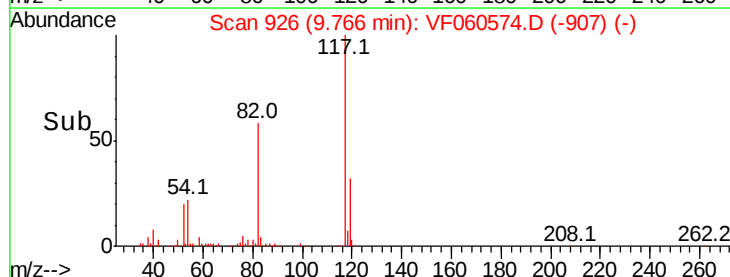
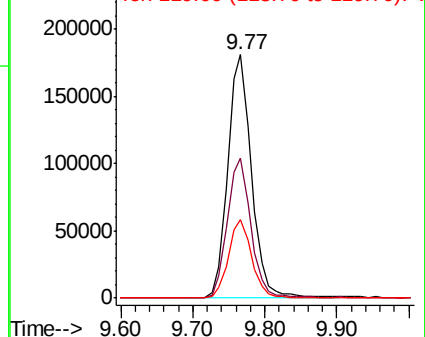
117 100

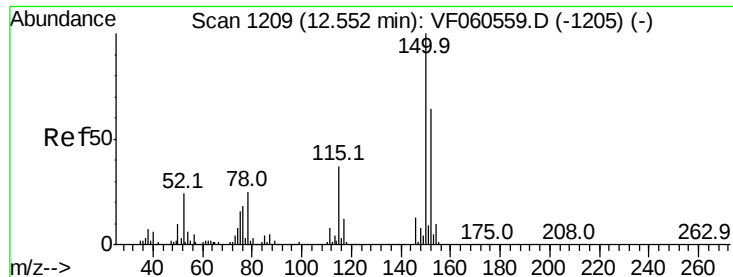
82 57.6 43.9 65.9

119 32.1 27.4 41.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V



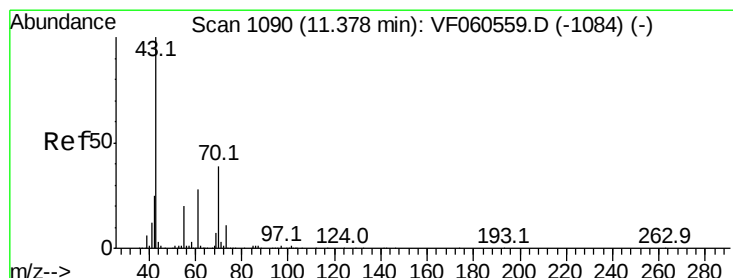
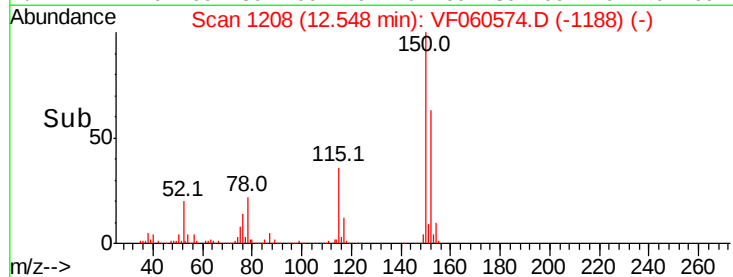
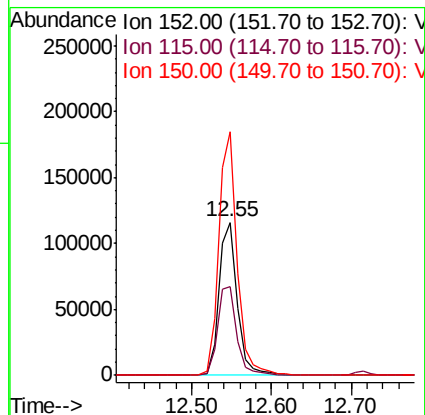
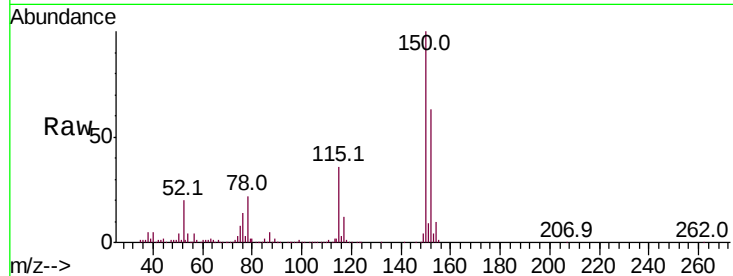


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF060574.D
Acq: 5 Nov 2018 15:55

Instrument :
MSVOA_F
ClientSampleId :
TP-2A-S

Tot Ion:152 Resp: 189678
Ion Ratio Lower Upper
152 100
115 57.9 29.6 88.8
150 159.2 0.0 315.6



#74

N-ethyl acetate
Concen: Below Cal
RT: 11.36 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VF060574.D
Acq: 5 Nov 2018 15:55

Tgt Ion: 43 Resp: 1033
Ion Ratio Lower Upper
43 100
70 28.2 30.9 46.3#
55 37.9 16.6 24.8#
61 17.4 22.0 33.0#

