

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110718\
 Data File : VF060633.D
 Acq On : 7 Nov 2018 17:14
 Operator : VA/AP
 Sample : J5769-06RE
 Misc : 5.79g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 07 17:02:53 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	4.87	168	291620	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	493994	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	397520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	178338	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	114769	38.95	ug/l	0.00
Spiked Amount			Recovery	=	77.90%	
35) Dibromofluoromethane	4.12	113	138046	36.17	ug/l	0.01
Spiked Amount			Recovery	=	72.34%	
50) Toluene-d8	7.56	98	344096	30.44	ug/l	0.00
Spiked Amount			Recovery	=	60.88%	
62) 4-Bromofluorobenzene	11.42	95	149632	30.26	ug/l	0.00
Spiked Amount			Recovery	=	60.52%	

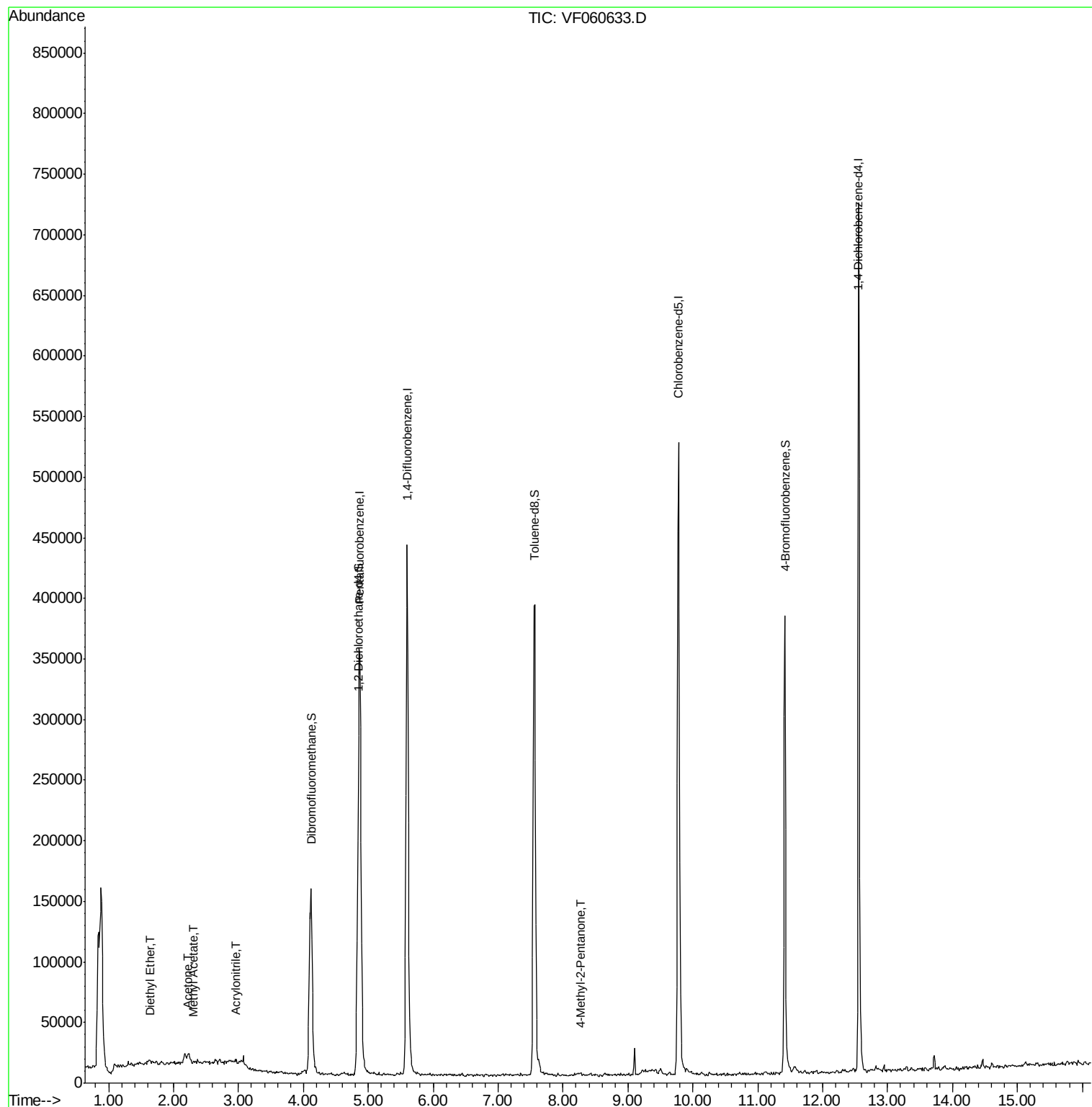
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	258	Below Cal	#	41
6) Chloroethane	1.36	64	117	Below Cal	#	40
8) Diethyl Ether	1.63	74	1685	2.065	ug/l	58
11) Tert butyl alcohol	2.58	59	370	Below Cal	#	1
13) Acrolein	2.14	56	318	Below Cal		84
15) Acrylonitrile	2.97	53	429	1.222	ug/l #	14
16) Acetone	2.24	43	3429	4.939	ug/l	94
18) Methyl Acetate	2.29	43	1730	2.068	ug/l #	64
20) Methylene Chloride	2.24	84	4069	Below Cal		88
25) 2-Butanone	4.35	43	917	Below Cal	#	85
29) Tetrahydrofuran	4.10	42	1612	Below Cal	#	66
51) 4-Methyl-2-Pentanone	8.27	43	3202	1.442	ug/l #	60
58) 2-Chloroethyl Vinyl ether	7.62	63	822	Below Cal		100
59) 2-Hexanone	9.49	43	3479	Below Cal		90
74) N-amyl acetate	11.37	43	1108	Below Cal	#	74
89) n-Butylbenzene	12.85	91	1184	Below Cal	#	79

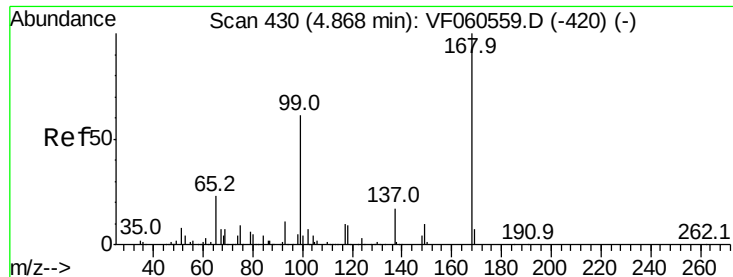
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF060633.D

Acq: 7 Nov 2018 17:14

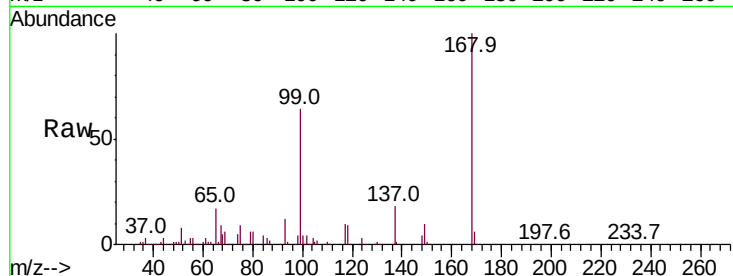
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 291620

Ion Ratio Lower Upper

168 100

99 64.2 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

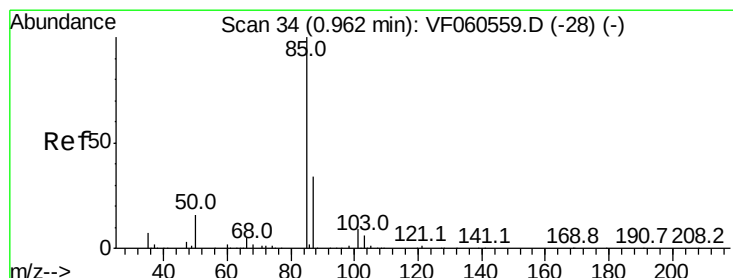
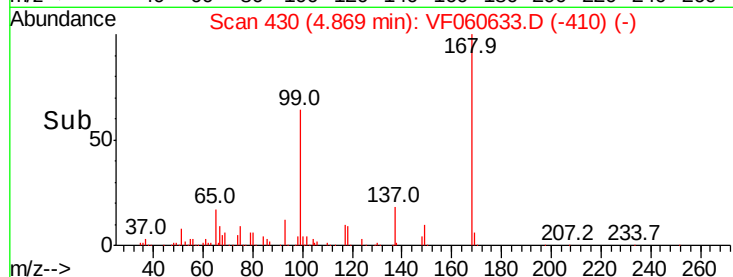
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF060633.D

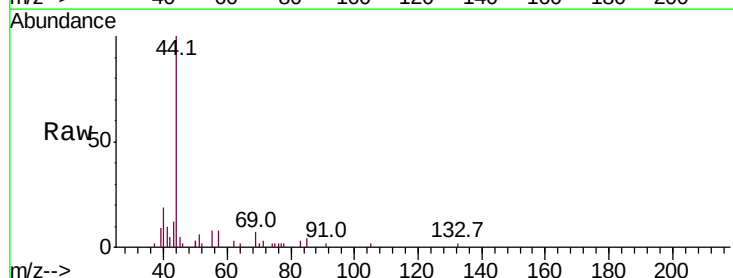
Acq: 7 Nov 2018 17:14

Tgt Ion: 85 Resp: 258

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

250

200

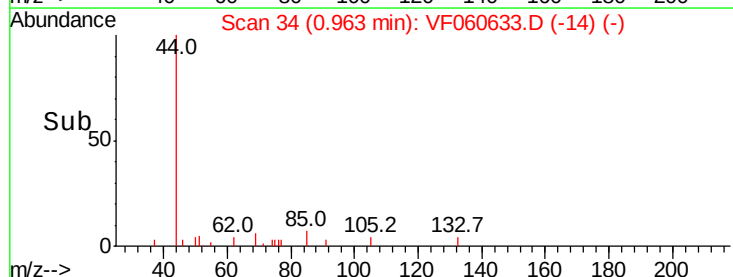
150

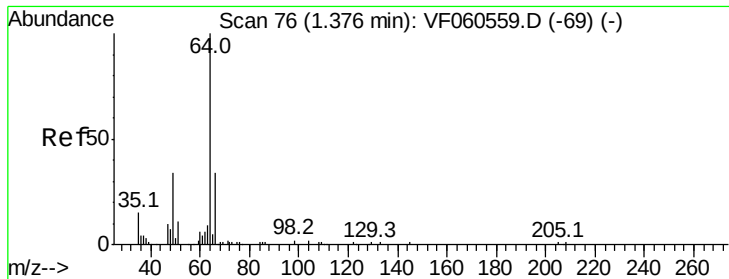
100

50

0

Time--> 0.94 0.96 0.98





#6

Chloroethane

Concen: Below Cal

RT: 1.36 min Scan# 74

Delta R.T. -0.02 min

Lab File: VF060633.D

Acq: 7 Nov 2018 17:14

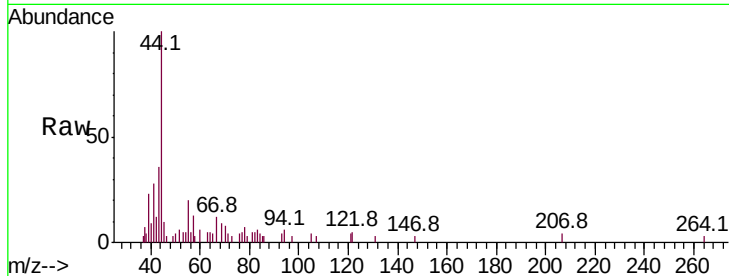
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 64 Resp: 117

Ion Ratio Lower Upper

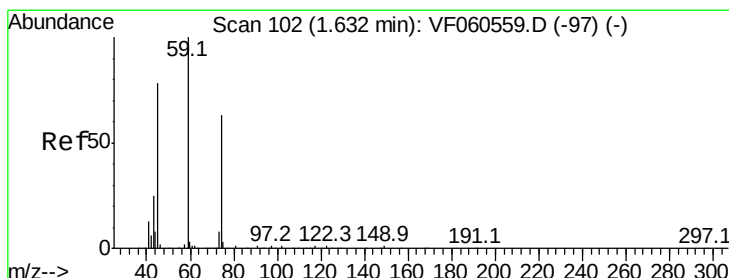
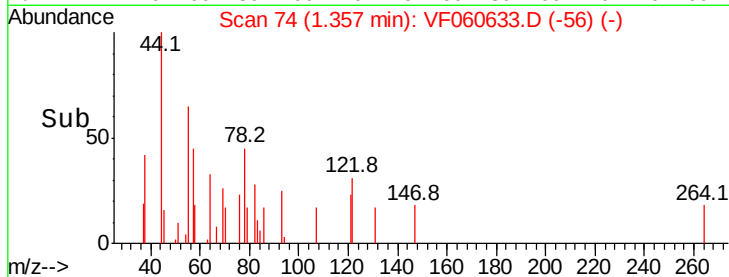
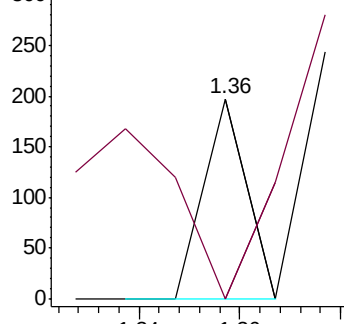
64 100

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



#8

Diethyl Ether

Concen: 2.065 ug/l

RT: 1.63 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF060633.D

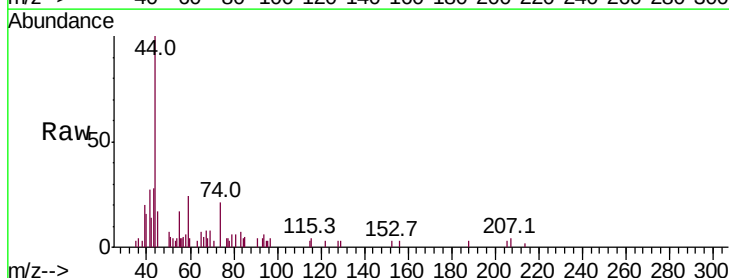
Acq: 7 Nov 2018 17:14

Tgt Ion: 74 Resp: 1685

Ion Ratio Lower Upper

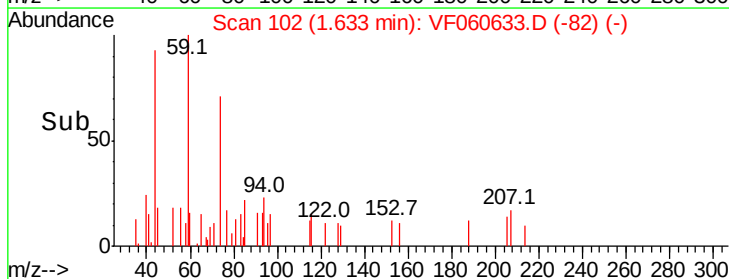
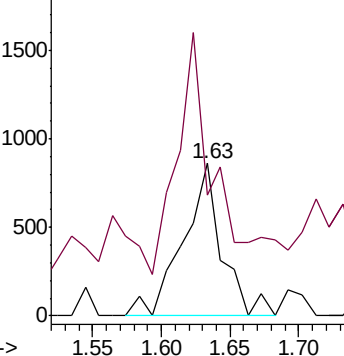
74 100

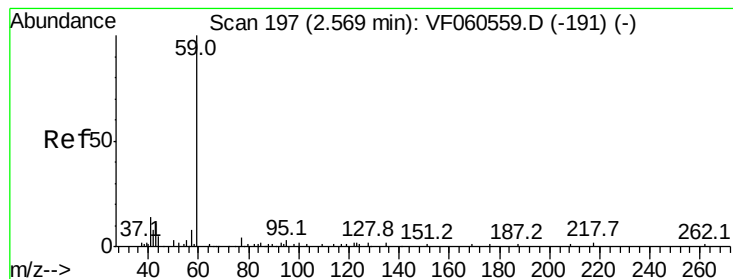
45 79.1 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



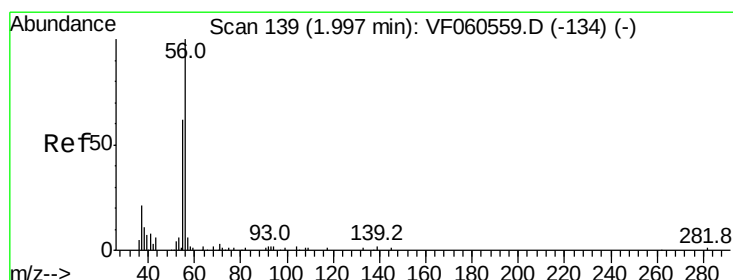
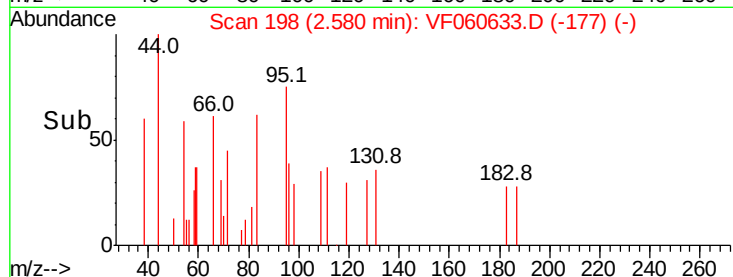
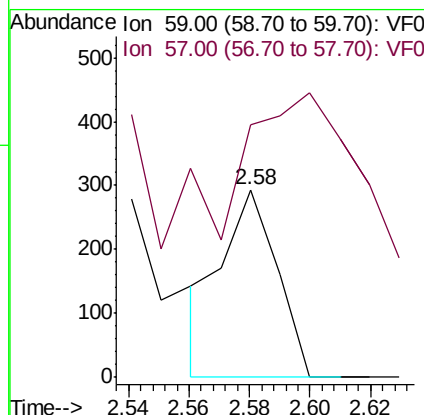
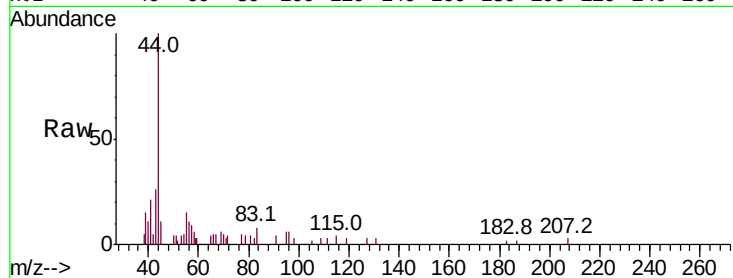


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 2.58 min Scan# 198
 Delta R.T. 0.01 min
 Lab File: VF060633.D
 Acq: 7 Nov 2018 17:14

Instrument :
 MSVOA_F
 ClientSampleId :

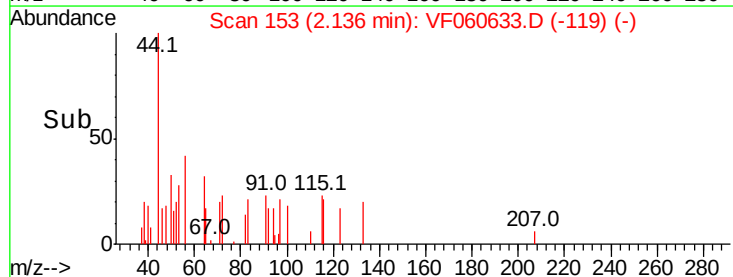
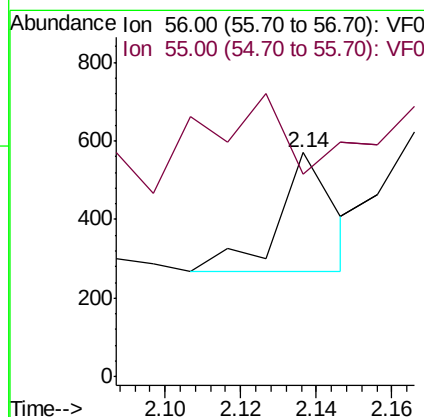
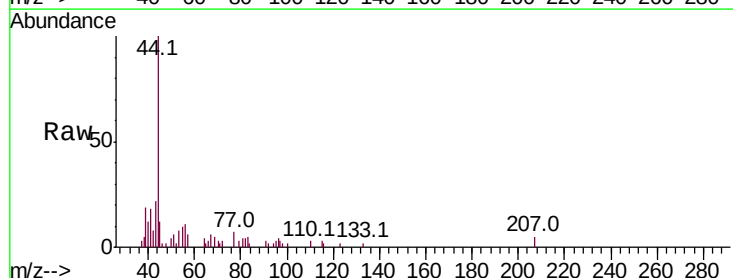
Tot Ion: 59 Resp: 370
 Ion Ratio Lower Upper
 59 100
 57 134.8 19.0 28.4#

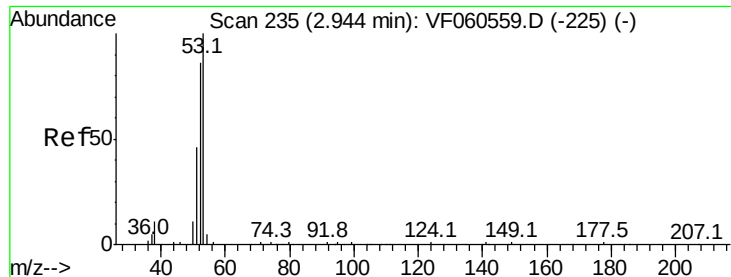


#13

Acrolein
 Concen: Below Cal
 RT: 2.14 min Scan# 153
 Delta R.T. 0.14 min
 Lab File: VF060633.D
 Acq: 7 Nov 2018 17:14

Tgt Ion: 56 Resp: 318
 Ion Ratio Lower Upper
 56 100
 55 90.7 61.8 92.6





#15

Acrylonitrile

Concen: 1.222 ug/l

RT: 2.97 min Scan# 238

Delta R.T. 0.03 min

Lab File: VF060633.D

Acq: 7 Nov 2018 17:14

Instrument :
MSVOA_F
ClientSampleId :

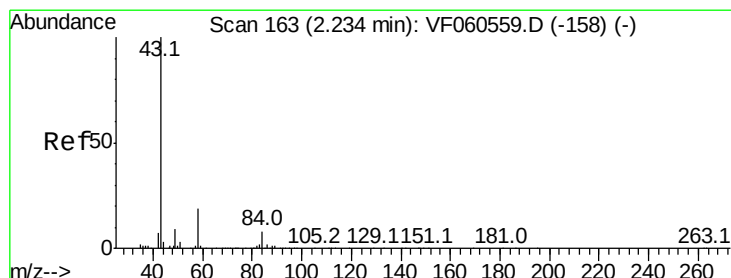
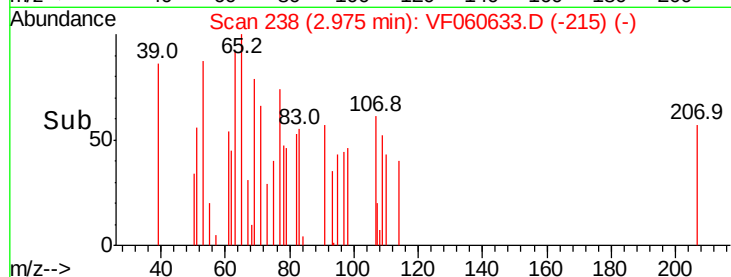
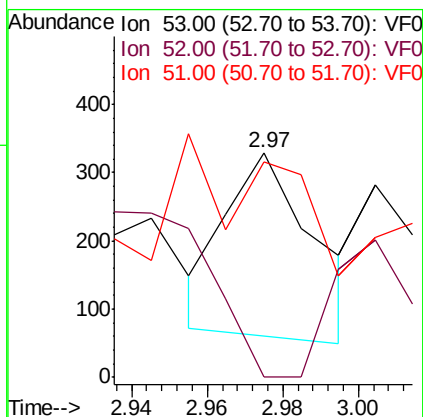
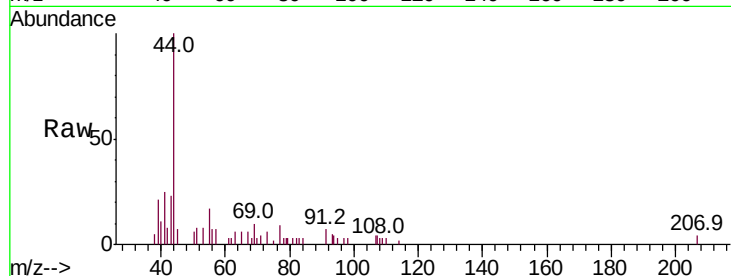
Tot Ion: 53 Resp: 429

Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 95.8 38.2 57.2#



#16

Acetone

Concen: 4.939 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF060633.D

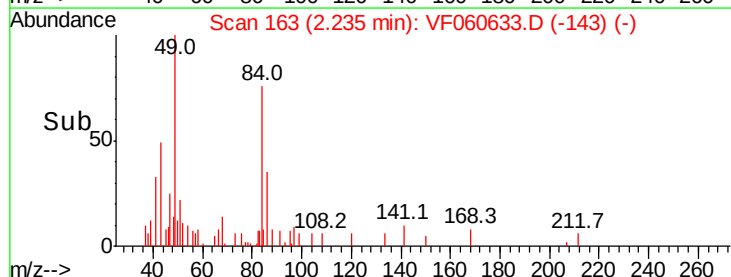
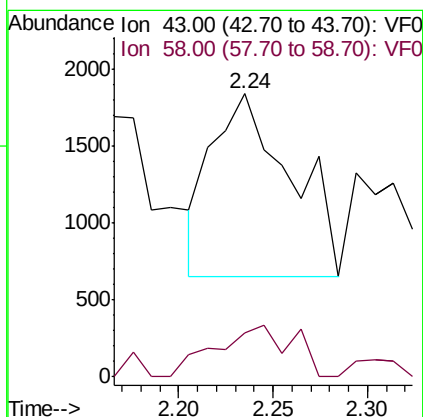
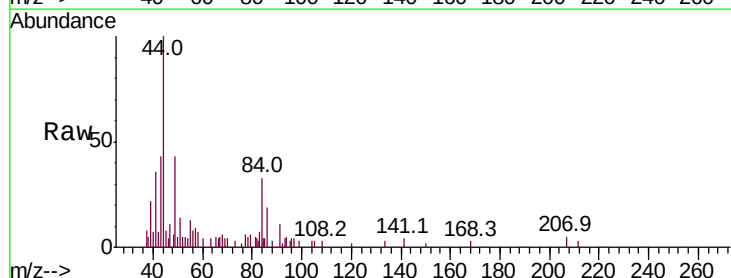
Acq: 7 Nov 2018 17:14

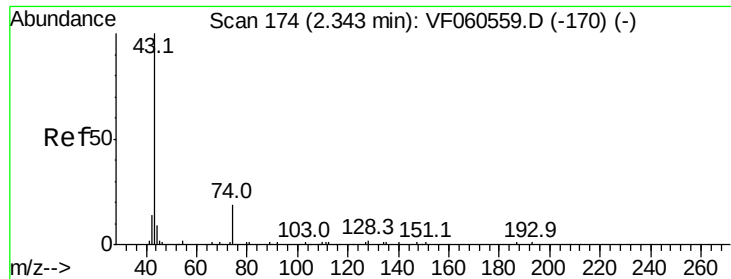
Tgt Ion: 43 Resp: 3429

Ion Ratio Lower Upper

43 100

58 15.4 14.6 22.0

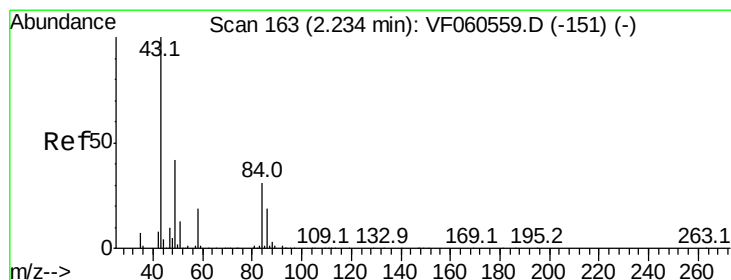
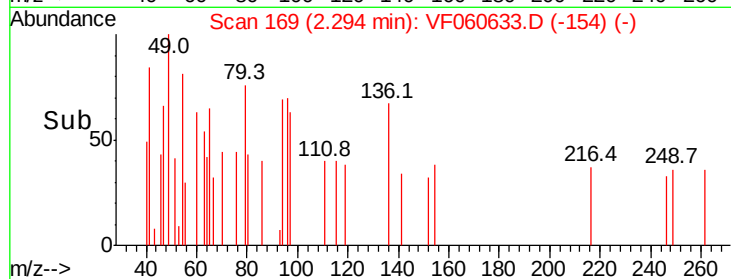
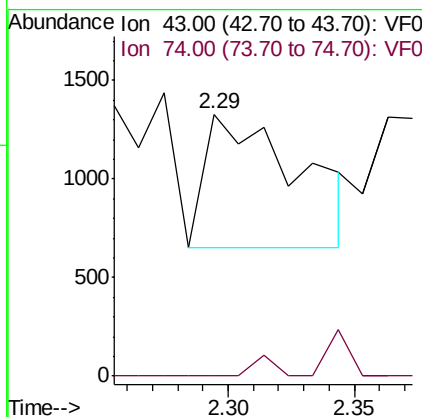
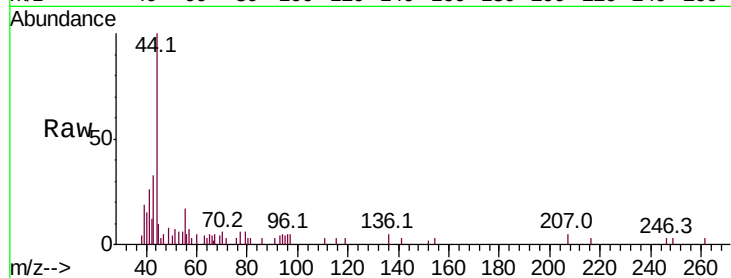




#18
Methyl Acetate
Concen: 2.068 ug/l
RT: 2.29 min Scan# 169
Delta R.T. -0.05 min
Lab File: VF060633.D
Acq: 7 Nov 2018 17:14

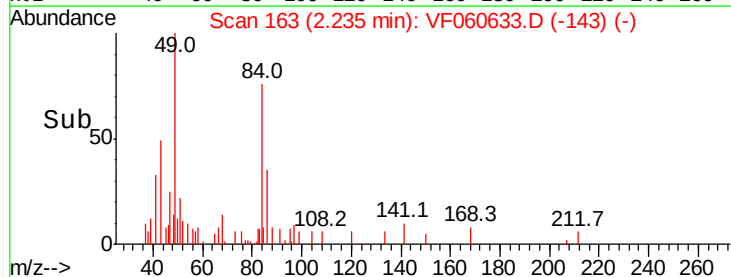
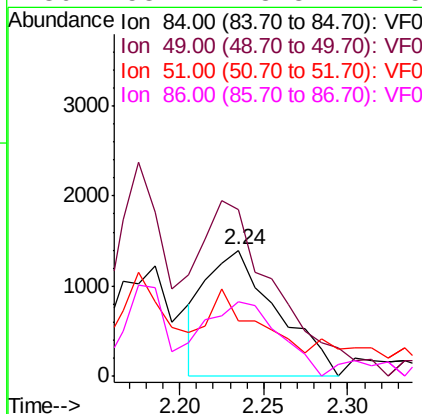
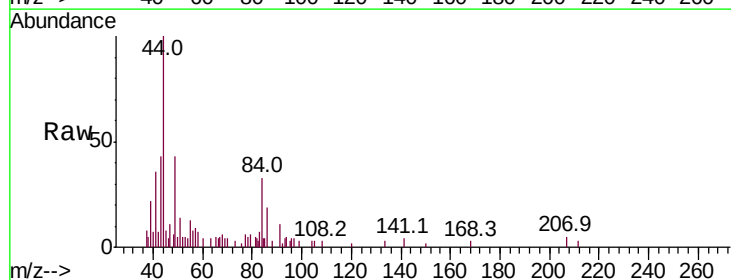
Instrument :
MSVOA_F
ClientSampled :

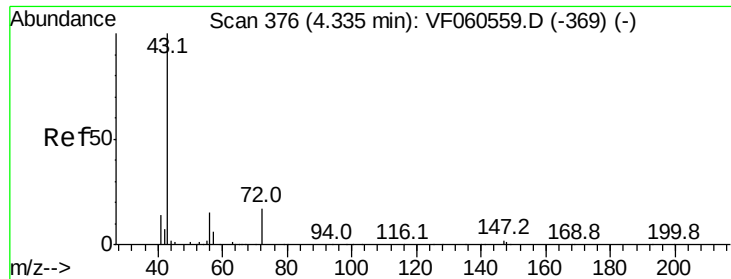
Tot Ion: 43 Resp: 1730
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.24 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060633.D
Acq: 7 Nov 2018 17:14

Tgt Ion: 84 Resp: 4069
Ion Ratio Lower Upper
84 100
49 119.3 109.9 164.9
51 39.8 35.8 53.8
86 53.1 48.3 72.5





#25

2-Butanone

Concen: Below Cal

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF060633.D

Acq: 7 Nov 2018 17:14

Instrument :

MSVOA_F

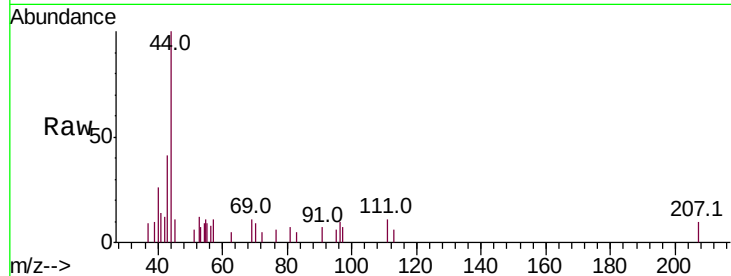
ClientSampled :

Tot Ion: 43 Resp: 917

Ion Ratio Lower Upper

43 100

72 13.1 16.2 24.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

800

600

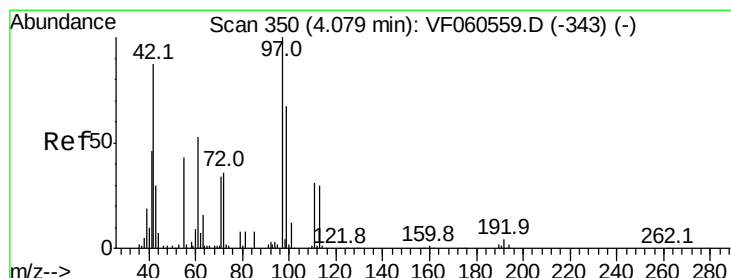
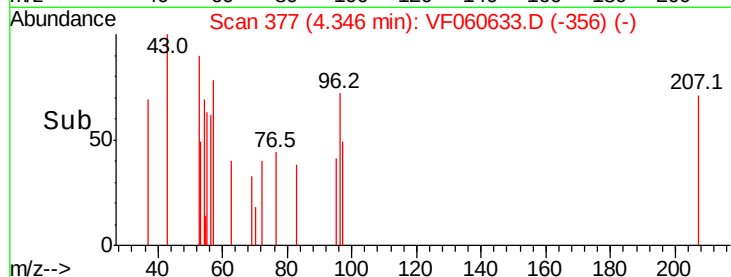
400

200

0

4.30 4.35

Time-->



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.10 min Scan# 352

Delta R.T. 0.02 min

Lab File: VF060633.D

Acq: 7 Nov 2018 17:14

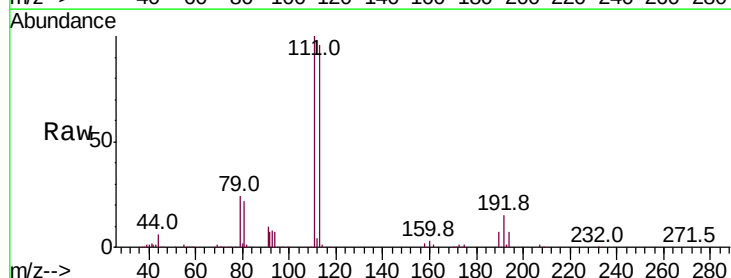
Tgt Ion: 42 Resp: 1612

Ion Ratio Lower Upper

42 100

72 21.4 31.4 47.0#

71 63.5 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

800

600

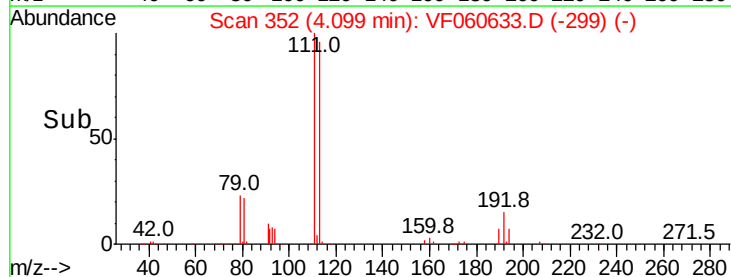
400

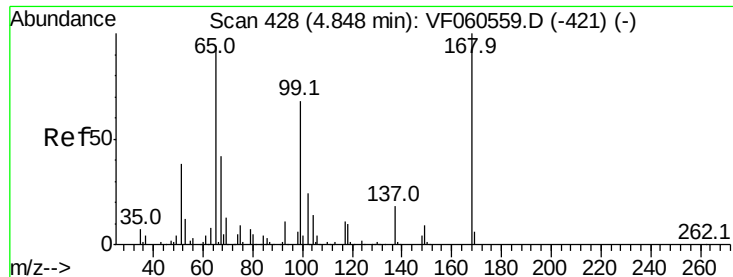
200

0

4.00 4.05 4.10 4.15

Time-->

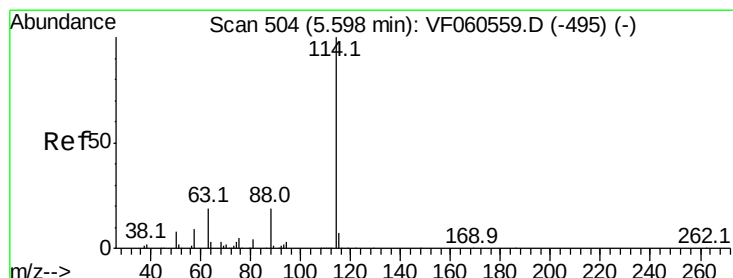
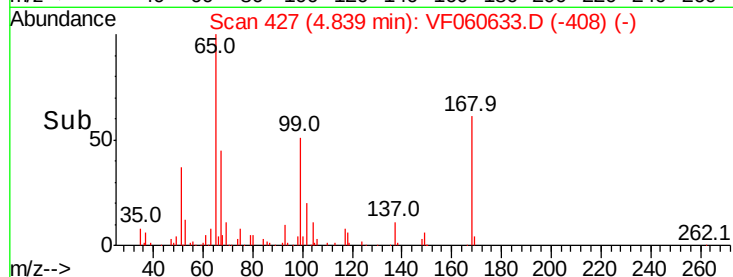
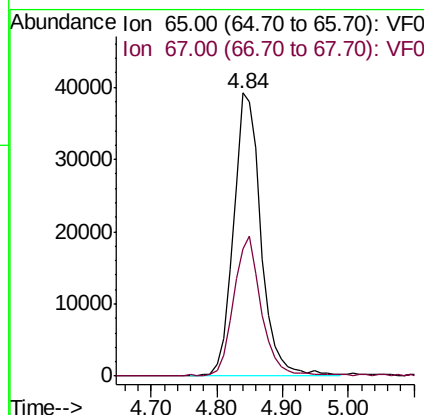
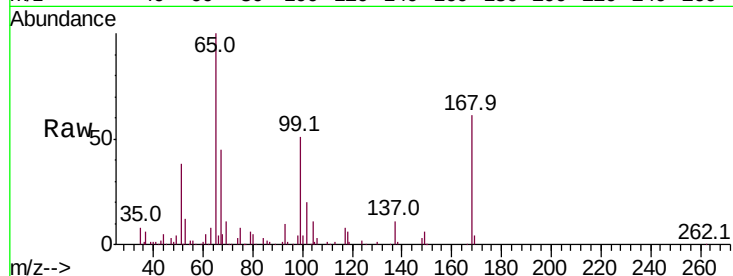




#33
 1,2-Dichloroethane-d4
 Concen: 38.952 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF060633.D
 Acq: 7 Nov 2018 17:14

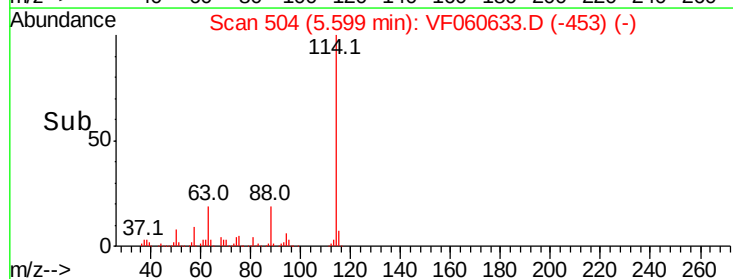
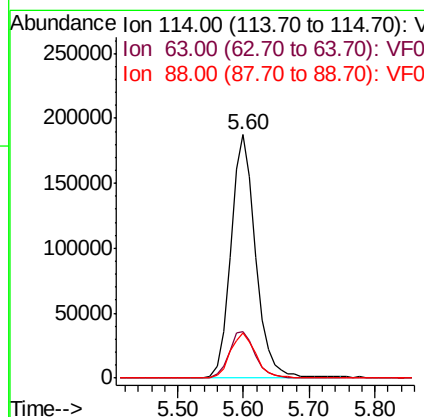
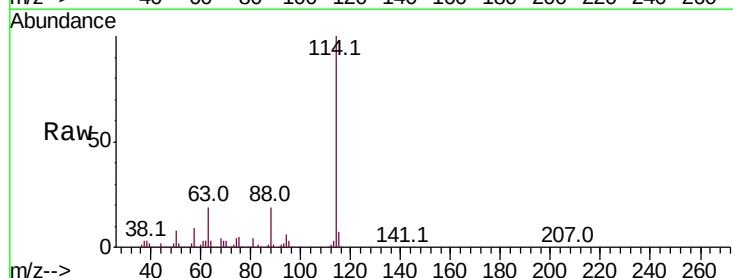
Instrument :
 MSVOA_F
 ClientSampleId :

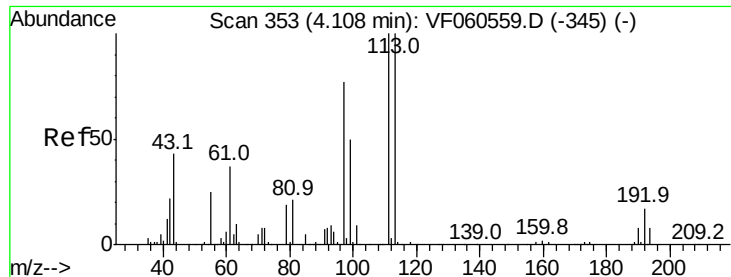
Tot Ion: 65 Resp: 114769
 Ion Ratio Lower Upper
 65 100
 67 44.9 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VF060633.D
 Acq: 7 Nov 2018 17:14

Tgt Ion: 114 Resp: 493994
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.0
 88 18.6 0.0 38.2

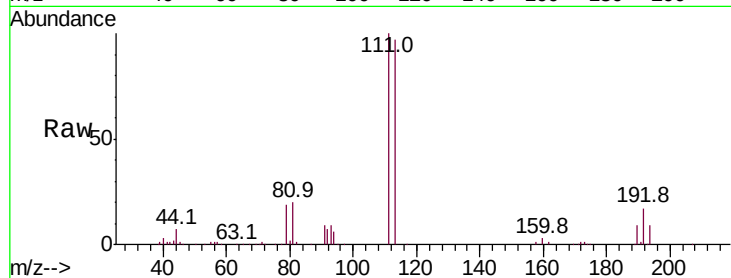




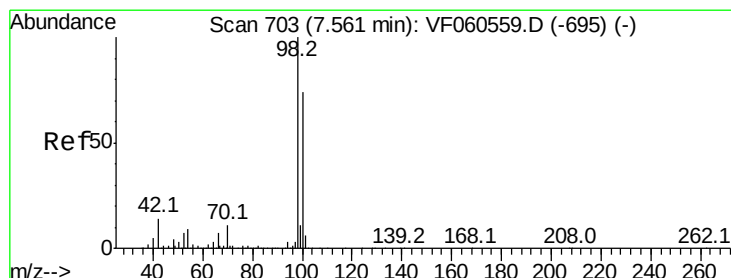
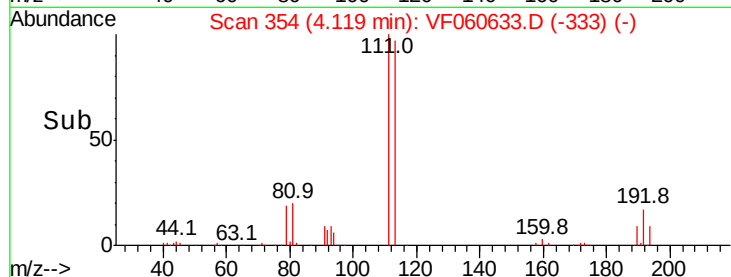
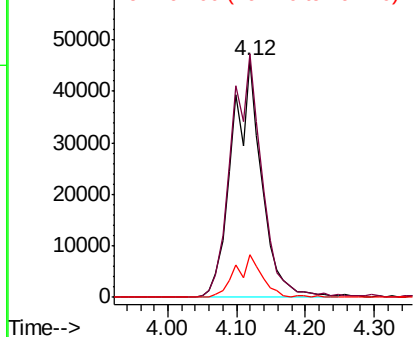
#35
Dibromofluoromethane
Concen: 36.170 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF060633.D
Acq: 7 Nov 2018 17:14

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 138046
Ion Ratio Lower Upper
113 100
111 102.8 79.9 119.9
192 17.9 13.3 19.9

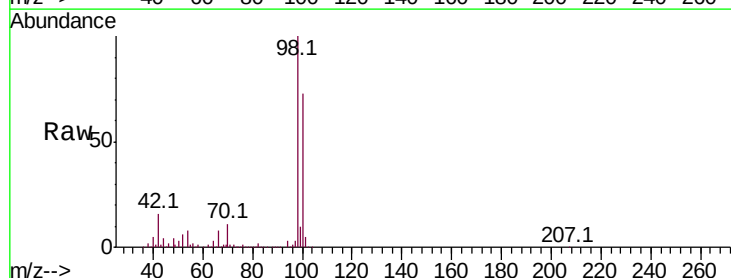


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

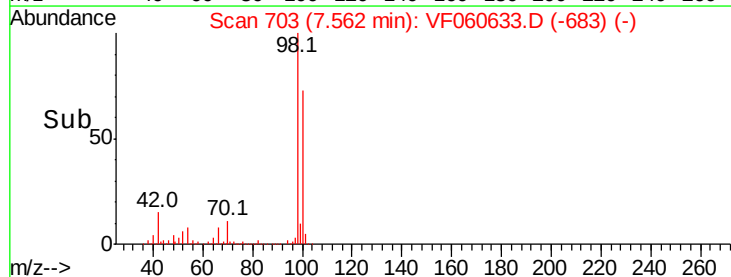
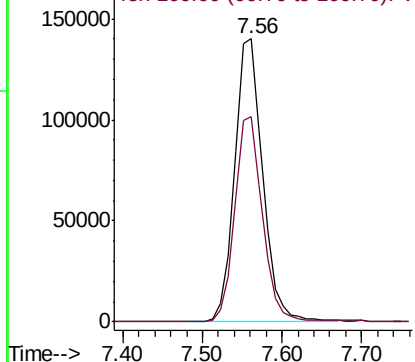


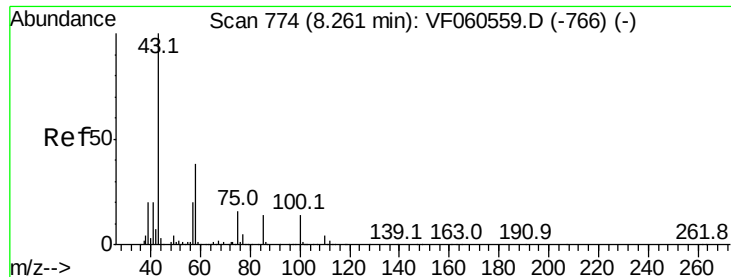
#50
Toluene-d8
Concen: 30.435 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF060633.D
Acq: 7 Nov 2018 17:14

Tgt Ion: 98 Resp: 344096
Ion Ratio Lower Upper
98 100
100 72.5 59.4 89.2



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF





#51

4-Methyl-2-Pentanone

Concen: 1.442 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF060633.D

Acq: 7 Nov 2018 17:14

Instrument :

MSVOA_F

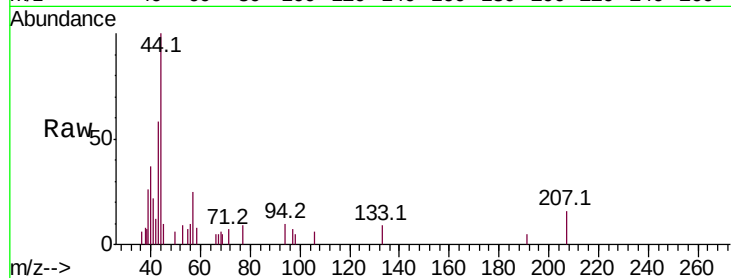
ClientSampled :

Tot Ion: 43 Resp: 3202

Ion Ratio Lower Upper

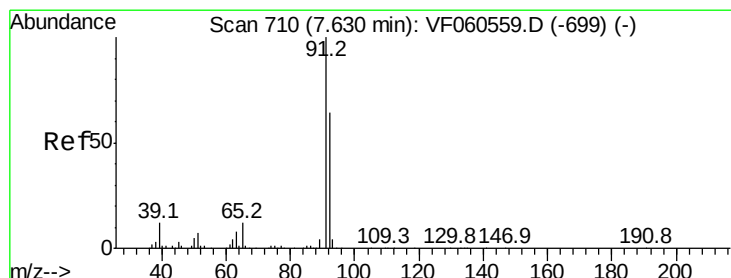
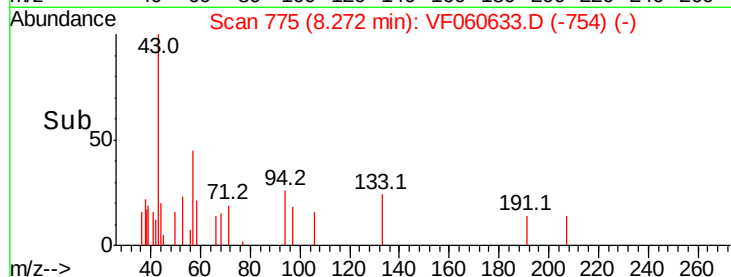
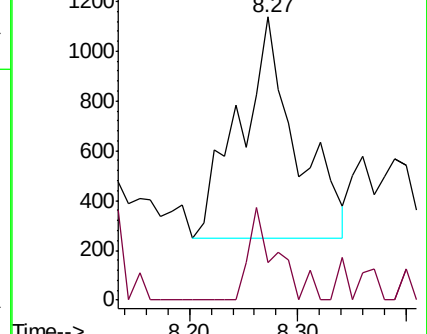
43 100

58 13.5 30.1 45.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF060633.D

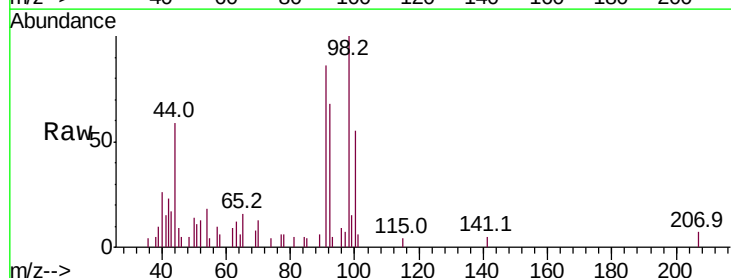
Acq: 7 Nov 2018 17:14

Tgt Ion: 63 Resp: 822

Ion Ratio Lower Upper

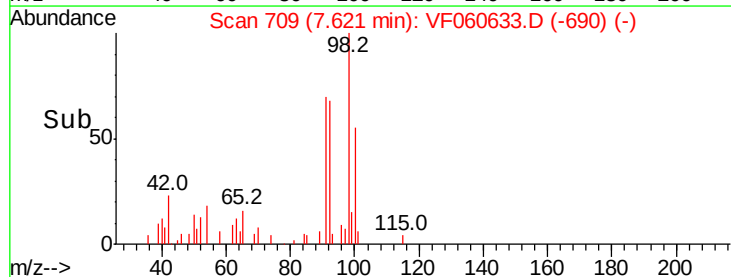
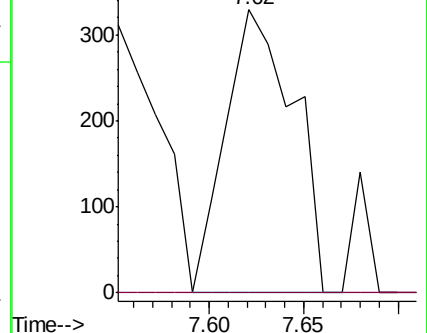
63 100

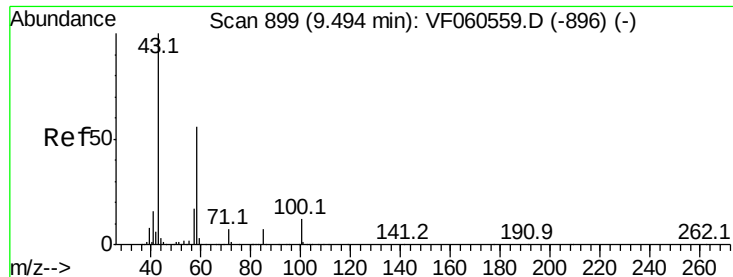
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

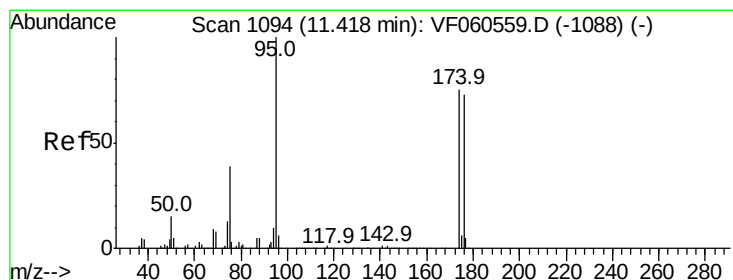
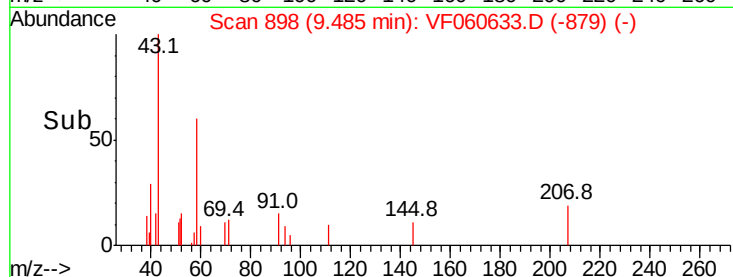
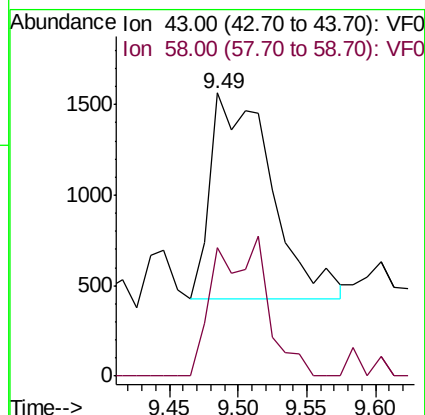
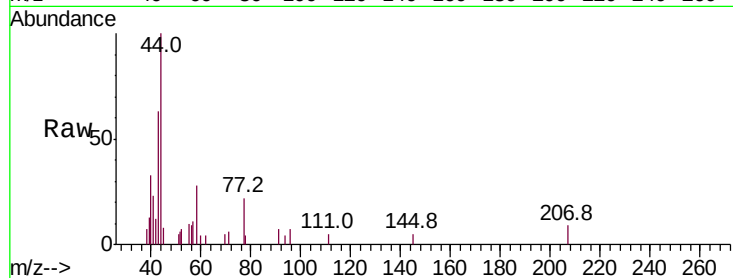




#59
2-Hexanone
Concen: Below Cal
RT: 9.49 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF060633.D
Acq: 7 Nov 2018 17:14

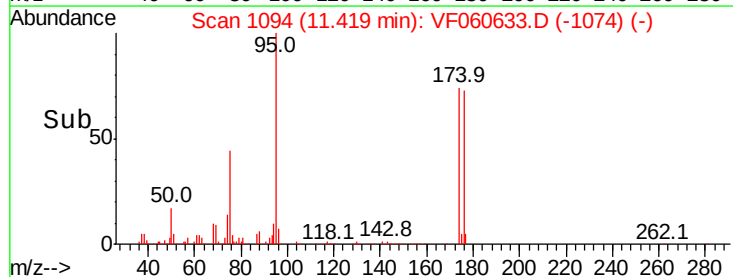
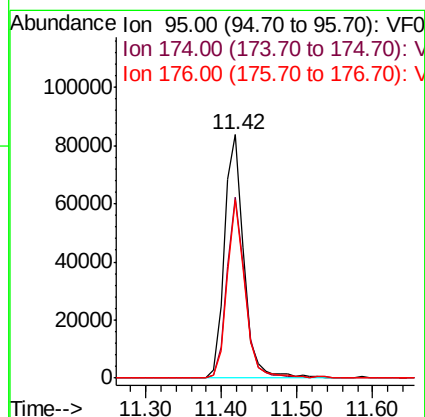
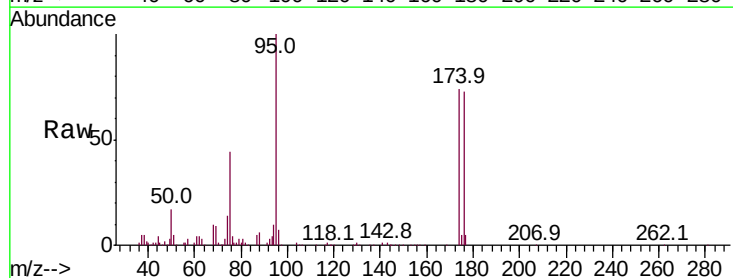
Instrument :
MSVOA_F
ClientSampled :

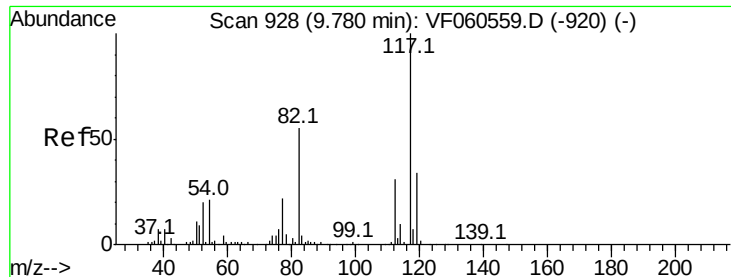
Tot Ion: 43 Resp: 3479
Ion Ratio Lower Upper
43 100
58 45.4 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 30.257 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060633.D
Acq: 7 Nov 2018 17:14

Tgt Ion: 95 Resp: 149632
Ion Ratio Lower Upper
95 100
174 74.2 0.0 149.0
176 73.5 0.0 145.6

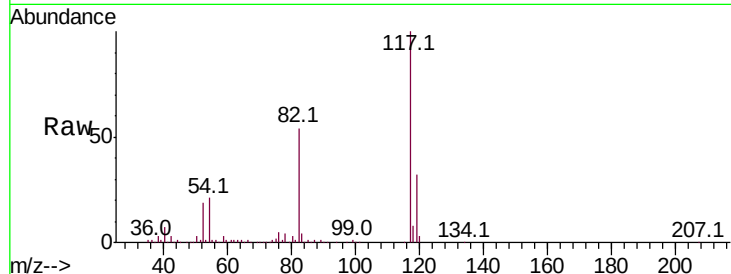




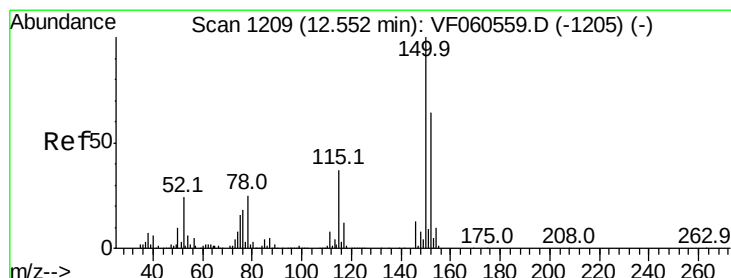
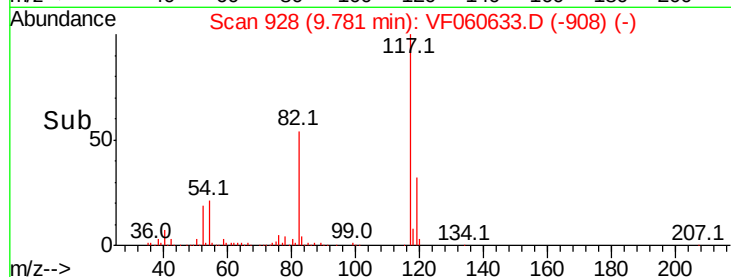
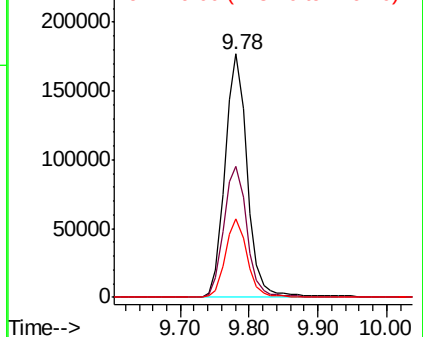
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060633.D
Acq: 7 Nov 2018 17:14

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117 Resp: 397520
Ion Ratio Lower Upper
117 100
82 53.8 43.9 65.9
119 32.2 27.4 41.0

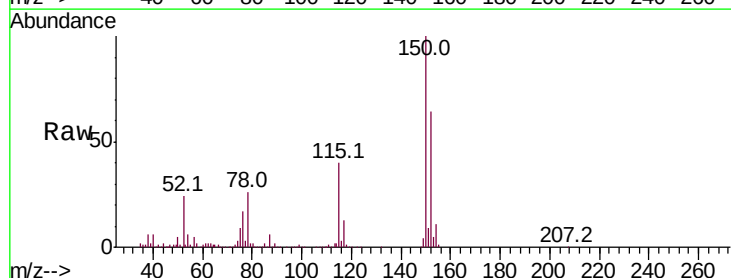


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

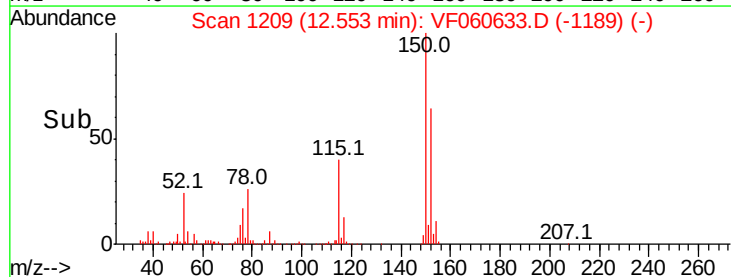
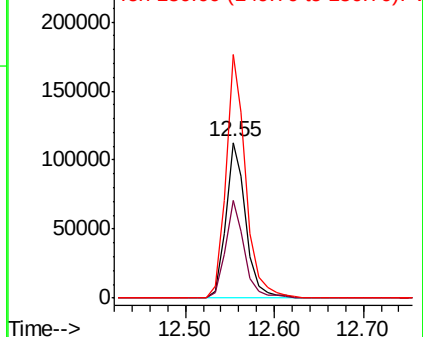


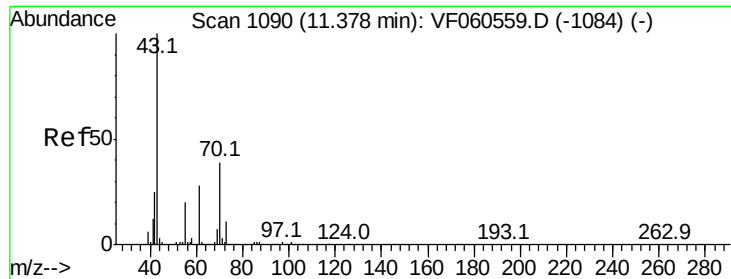
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF060633.D
Acq: 7 Nov 2018 17:14

Tgt Ion:152 Resp: 178338
Ion Ratio Lower Upper
152 100
115 63.1 29.6 88.8
150 156.3 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-amvl acetate
 Concen: Below Cal
 RT: 11.37 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VF060633.D
 Acq: 7 Nov 2018 17:14

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 1108
 Ion Ratio Lower Upper
 43 100
 70 39.7 30.9 46.3
 55 37.9 16.6 24.8#
 61 0.0 22.0 33.0#

