

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110518\
 Data File : VF060584.D
 Acq On : 5 Nov 2018 21:09
 Operator : VA/AP
 Sample : J5741-35RE
 Misc : 6.62/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 06:57:27 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	291089	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	535963	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	446509	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	251707	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	125674	42.73	ug/l	0.00
Spiked Amount			Recovery	=	85.46%	
35) Dibromofluoromethane	4.11	113	166560	40.22	ug/l	0.00
Spiked Amount			Recovery	=	80.44%	
50) Toluene-d8	7.56	98	471188	38.41	ug/l	0.00
Spiked Amount			Recovery	=	76.82%	
62) 4-Bromofluorobenzene	11.41	95	218765	40.77	ug/l	0.00
Spiked Amount			Recovery	=	81.54%	

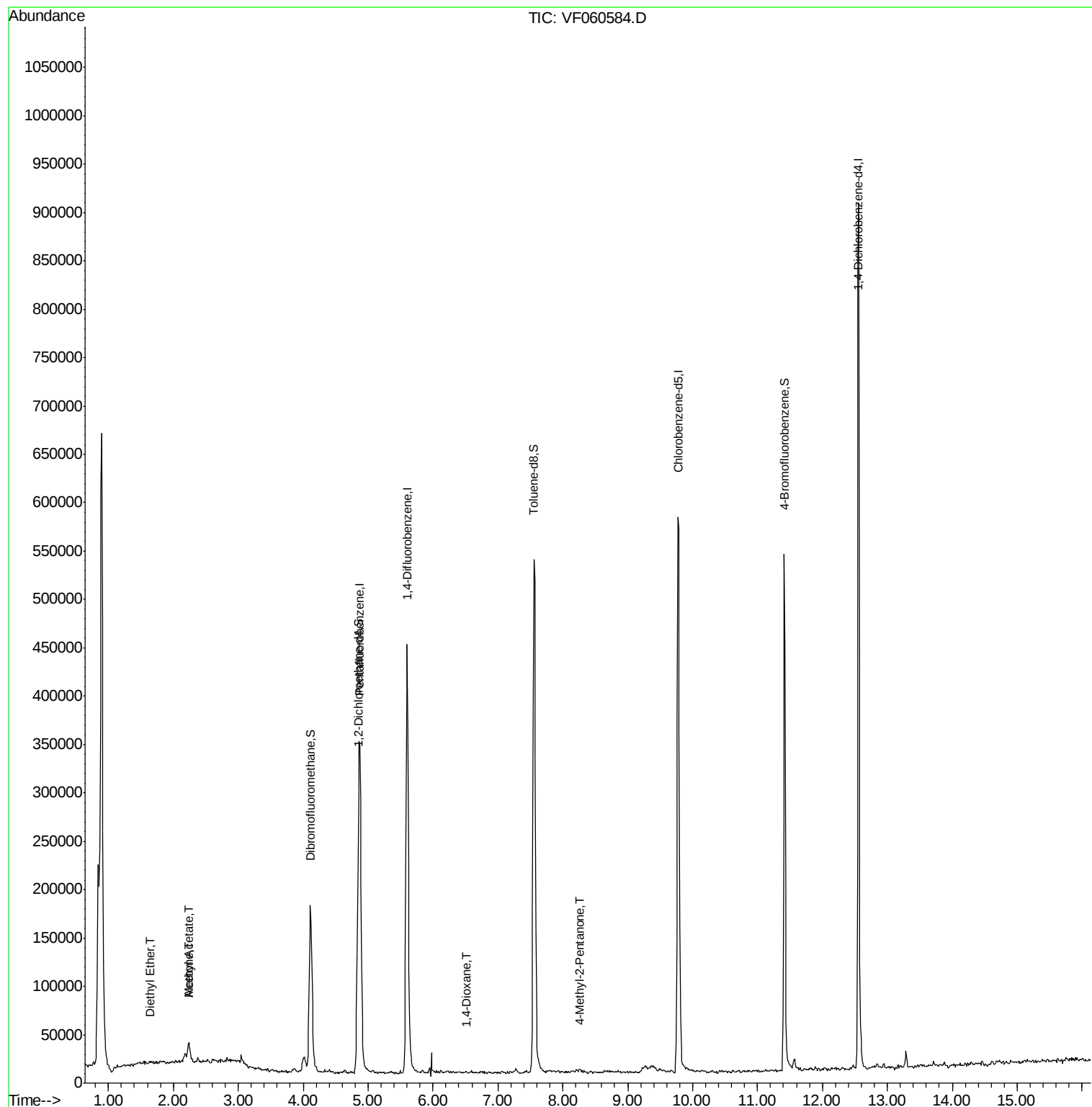
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	204	Below Cal	#	41
6) Chloroethane	1.35	64	60	Below Cal	#	40
8) Diethyl Ether	1.63	74	1074	1.319	ug/l	99
11) Tert butyl alcohol	2.58	59	438	Below Cal	#	1
13) Acrolein	2.09	56	350	Below Cal		92
16) Acetone	2.24	43	25632	36.985	ug/l	95
18) Methyl Acetate	2.24	43	25632	24.061	ug/l #	67
20) Methylene Chloride	2.24	84	3062	Below Cal	#	80
25) 2-Butanone	4.33	43	5965	Below Cal	#	81
29) Tetrahydrofuran	4.07	42	1175	Below Cal	#	55
49) 1,4-Dioxane	6.52	88	64	2.717	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	2894	1.201	ug/l #	73
58) 2-Chloroethyl Vinyl ether	7.64	63	568	Below Cal		100
59) 2-Hexanone	9.49	43	3400	Below Cal		69
74) N-amyl acetate	11.30	43	702	Below Cal	#	58
89) n-Butylbenzene	12.85	91	2010	Below Cal		75

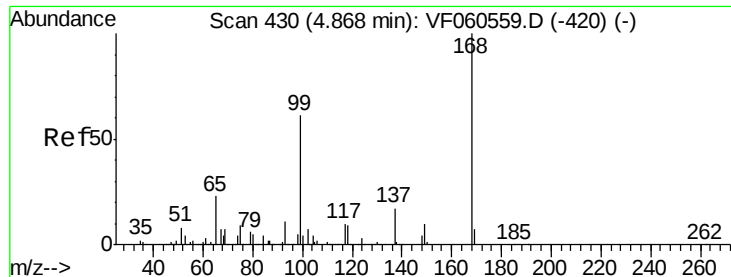
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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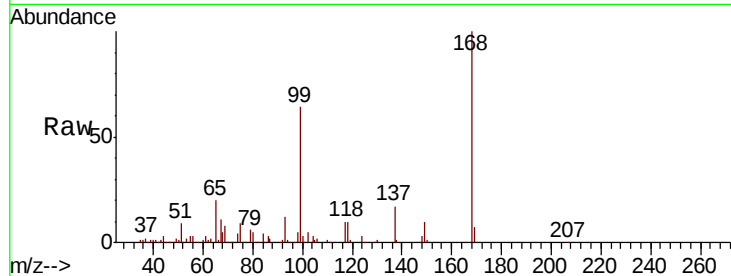


#1

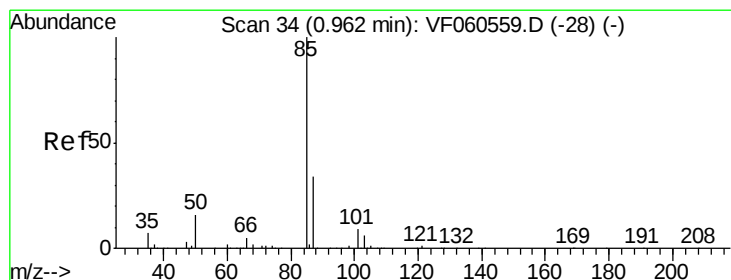
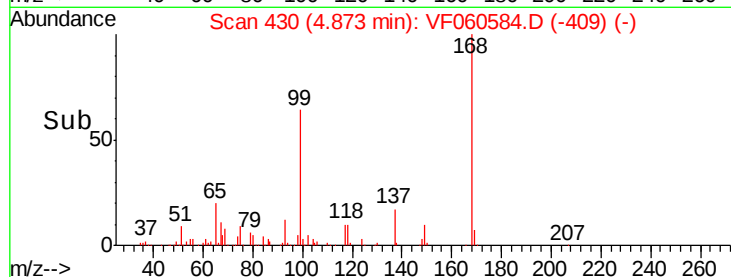
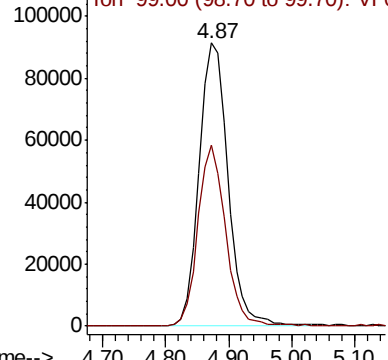
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. 0.00 min
 Lab File: VF060584.D
 Acq: 5 Nov 2018 21:09

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:168 Resp: 291089
 Ion Ratio Lower Upper
 168 100
 99 64.0 48.6 72.8



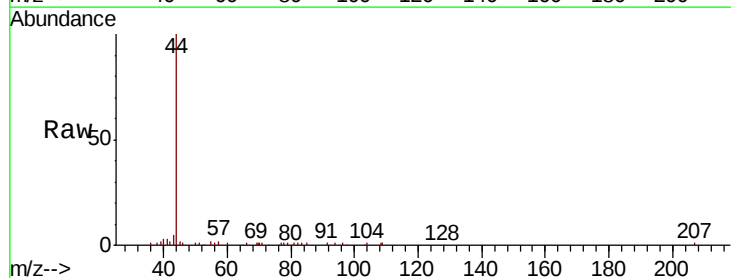
Abundance Ion 168.00 (167.70 to 168.70): VF0
 Ion 99.00 (98.70 to 99.70): VF0



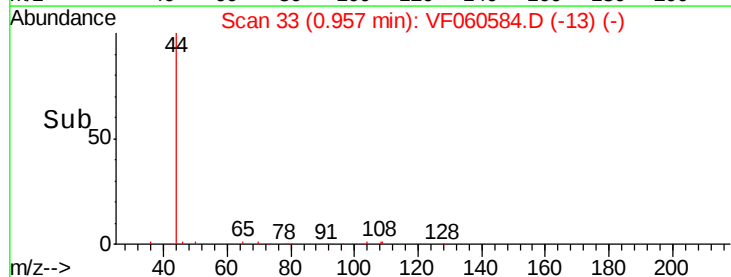
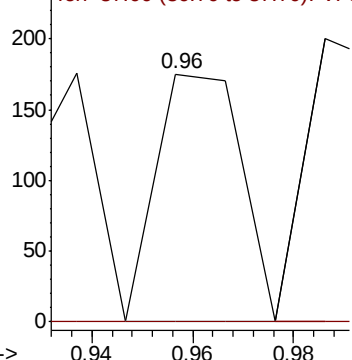
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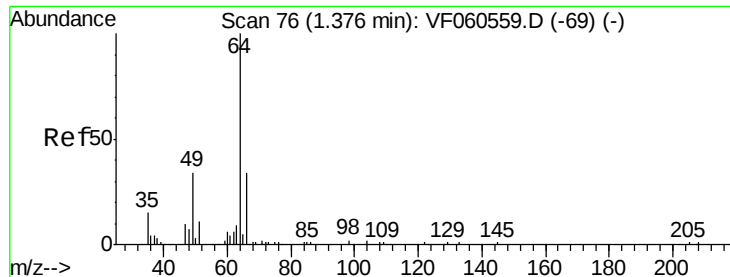
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 0.96 min Scan# 33
 Delta R.T. -0.00 min
 Lab File: VF060584.D
 Acq: 5 Nov 2018 21:09

Tgt Ion: 85 Resp: 204
 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





#6

Chloroethane

Concen: Below Cal

RT: 1.35 min Scan# 73

Delta R.T. -0.02 min

Lab File: VF060584.D

Acq: 5 Nov 2018 21:09

Instrument :

MSVOA_F

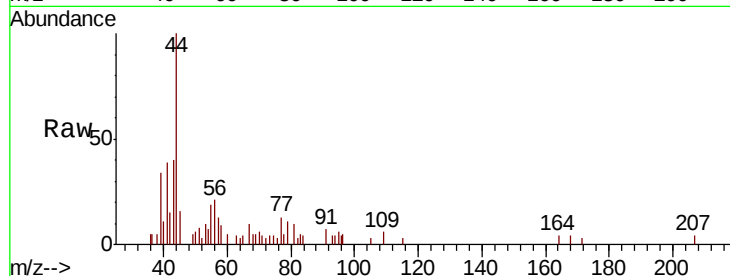
ClientSampleId :

Tot Ion: 64 Resp: 60

Ion Ratio Lower Upper

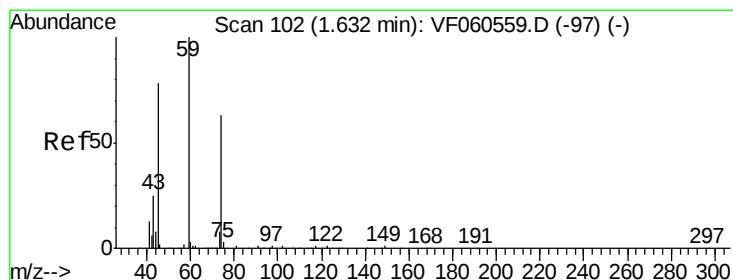
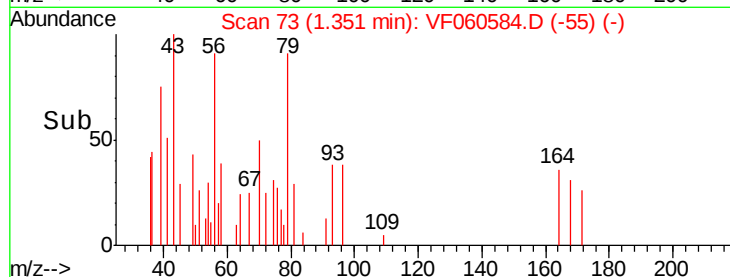
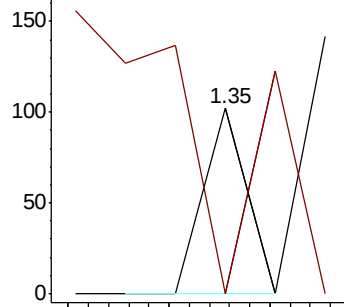
64 100

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: 1.319 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF060584.D

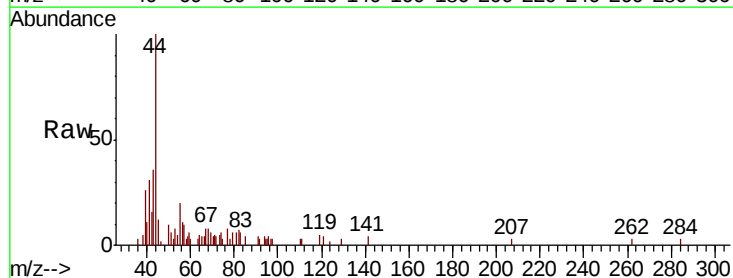
Acq: 5 Nov 2018 21:09

Tgt Ion: 74 Resp: 1074

Ion Ratio Lower Upper

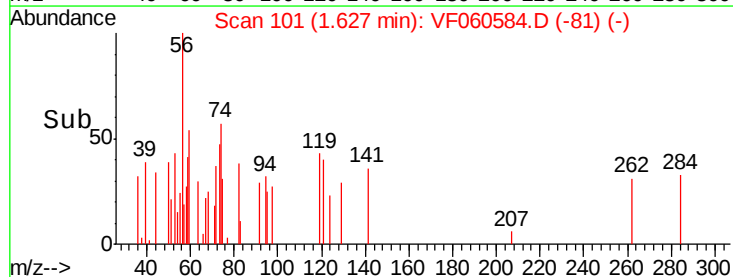
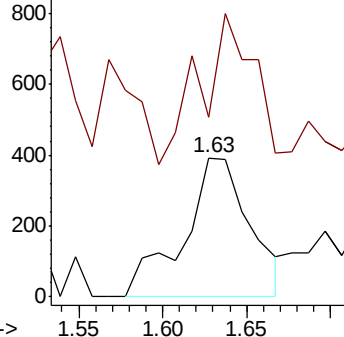
74 100

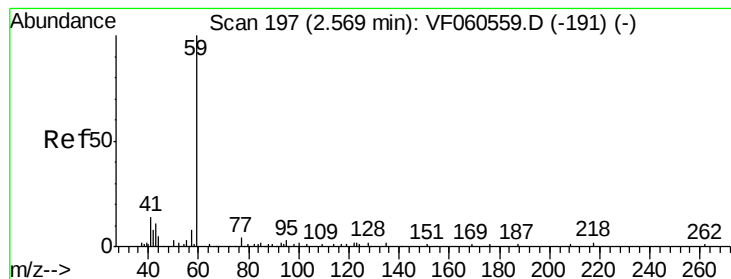
45 129.3 63.8 191.5



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



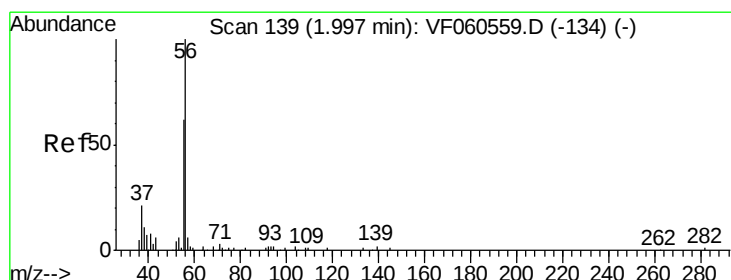
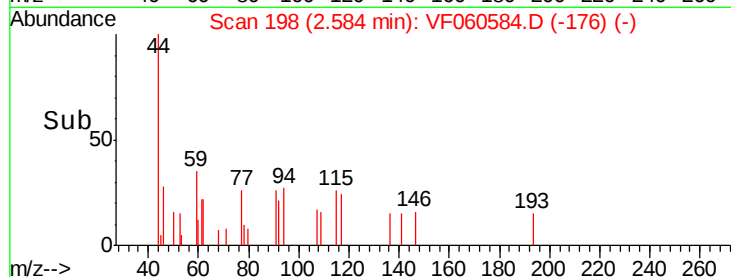
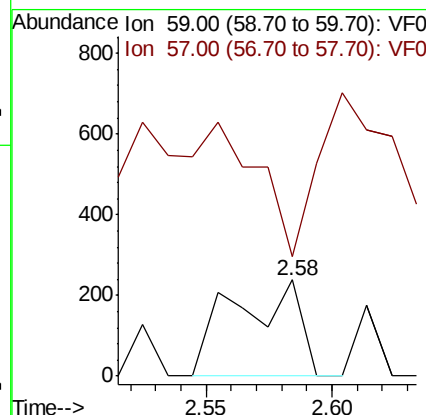
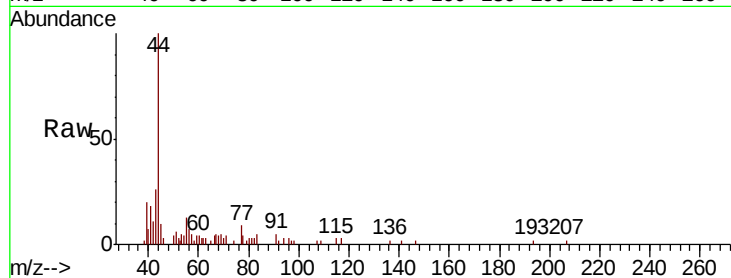


#11

Tert butyl alcohol
Concen: Below Cal
RT: 2.58 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Instrument :
MSVOA_F
ClientSampled :

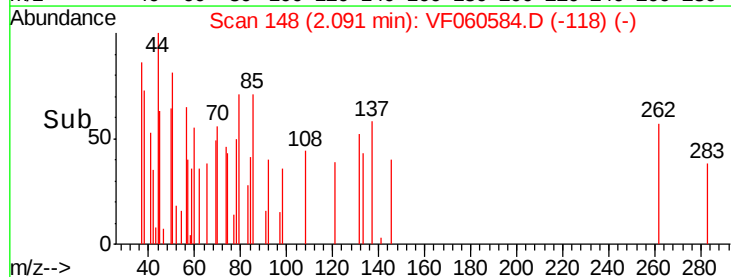
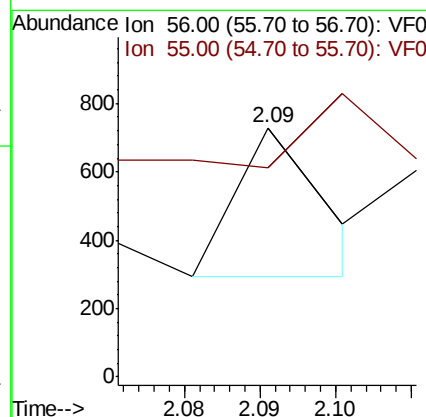
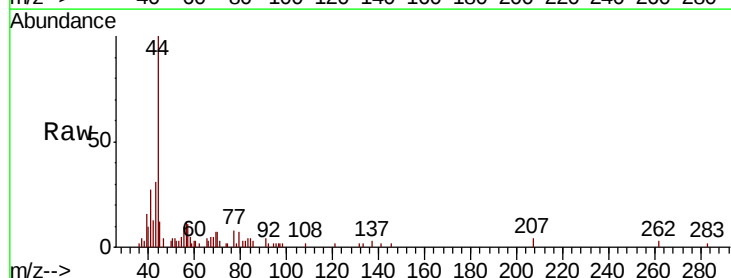
Tot Ion: 59 Resp: 438
Ion Ratio Lower Upper
59 100
57 123.4 19.0 28.4#

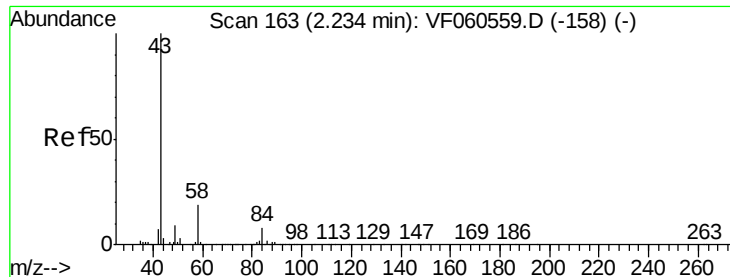


#13

Acrolein
Concen: Below Cal
RT: 2.09 min Scan# 148
Delta R.T. 0.09 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Tgt Ion: 56 Resp: 350
Ion Ratio Lower Upper
56 100
55 83.7 61.8 92.6

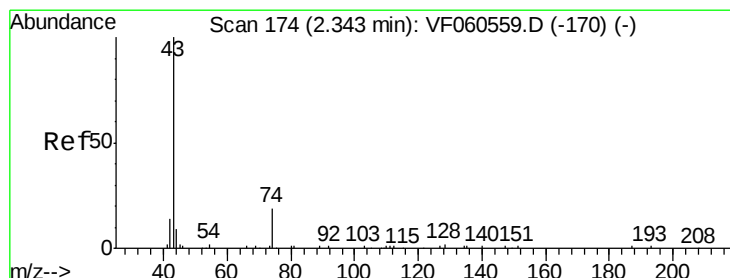
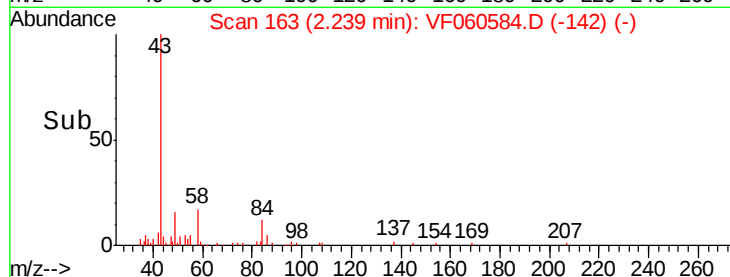
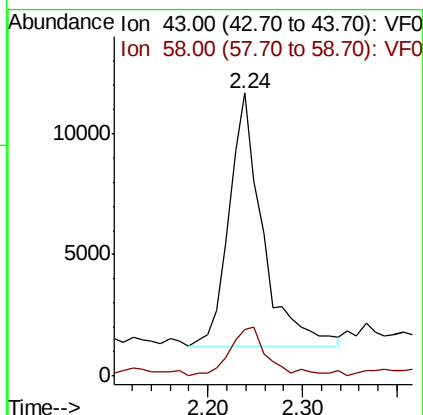
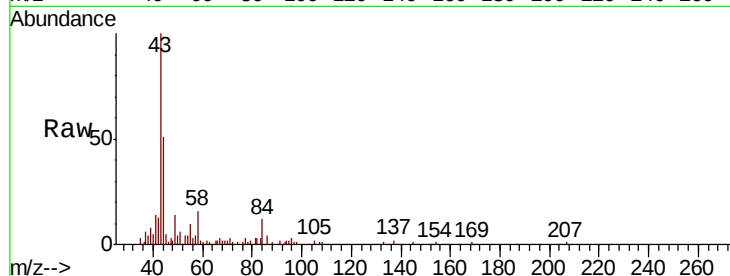




#16
Acetone
Concen: 36.985 ug/l
RT: 2.24 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

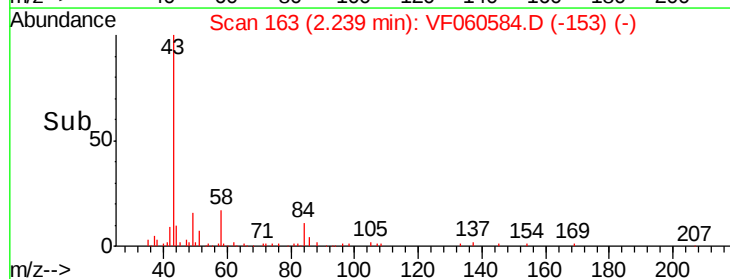
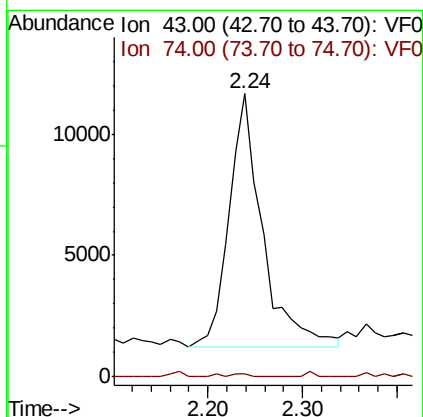
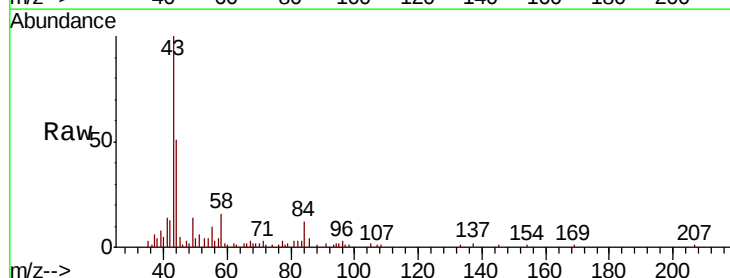
Instrument :
MSVOA_F
ClientSampleId :

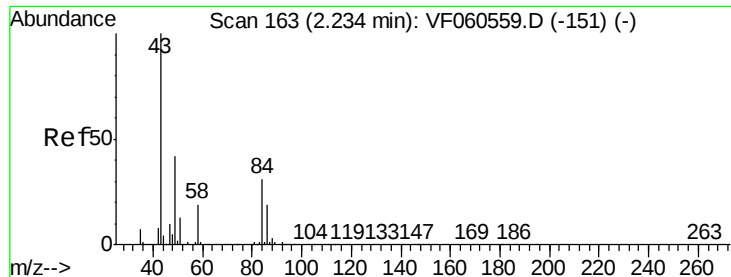
Tot Ion: 43 Resp: 25632
Ion Ratio Lower Upper
43 100
58 16.3 14.6 22.0



#18
Methyl Acetate
Concen: 24.061 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.10 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Tgt Ion: 43 Resp: 25632
Ion Ratio Lower Upper
43 100
74 1.3 12.1 18.1#

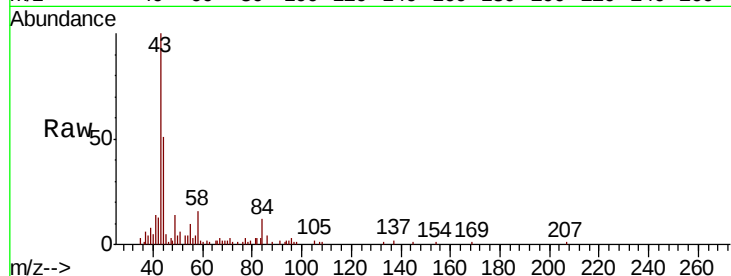




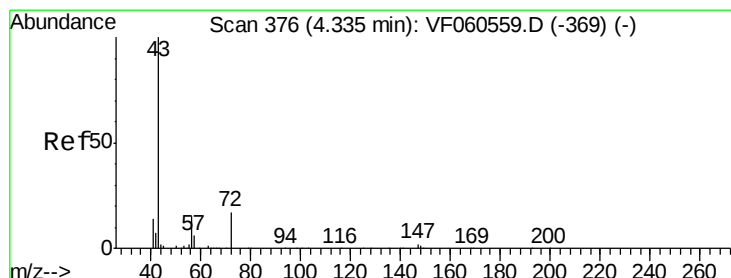
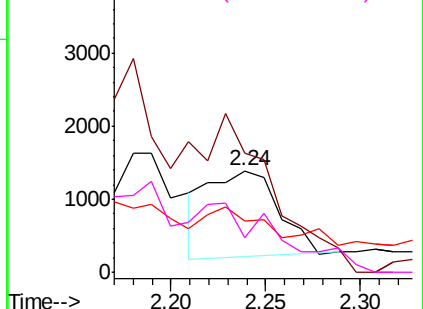
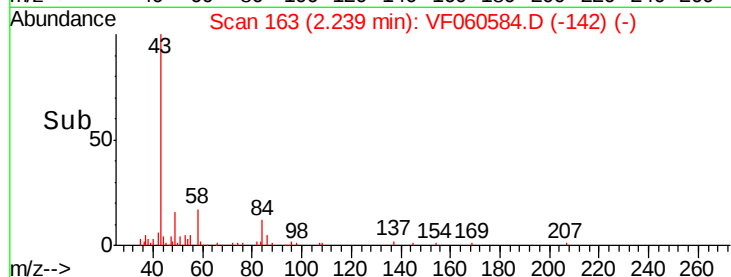
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.24 min Scan# 163
Delta R.T. 0.00 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 3062
Ion Ratio Lower Upper
84 100
49 116.9 109.9 164.9
51 50.2 35.8 53.8
86 34.5 48.3 72.5#

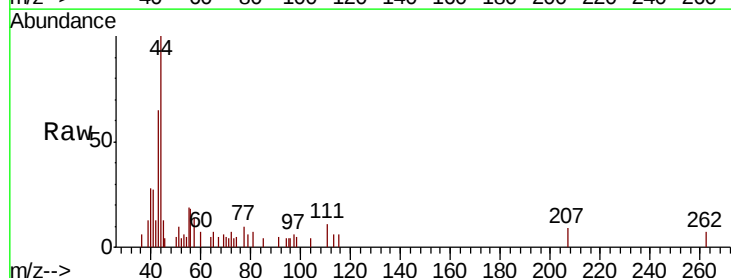


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

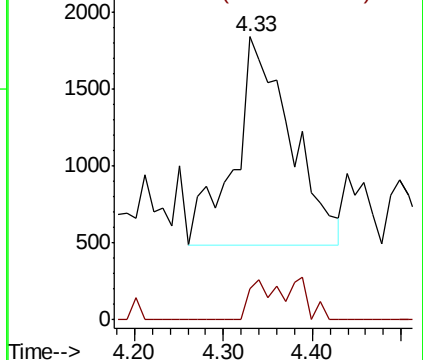
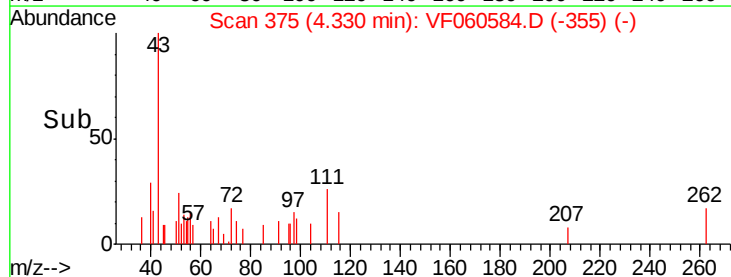


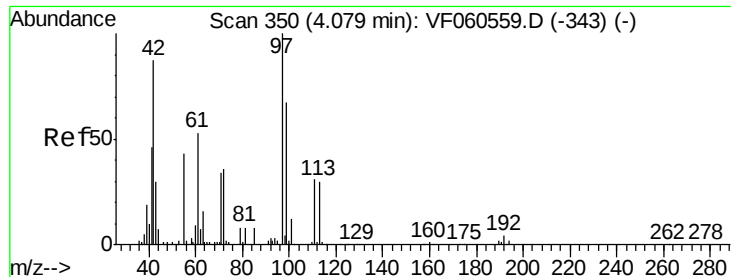
#25
2-Butanone
Concen: Below Cal
RT: 4.33 min Scan# 375
Delta R.T. -0.00 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Tgt Ion: 43 Resp: 5965
Ion Ratio Lower Upper
43 100
72 11.2 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: VF060584.D

Acq: 5 Nov 2018 21:09

Instrument :

MSVOA_F

ClientSampleId :

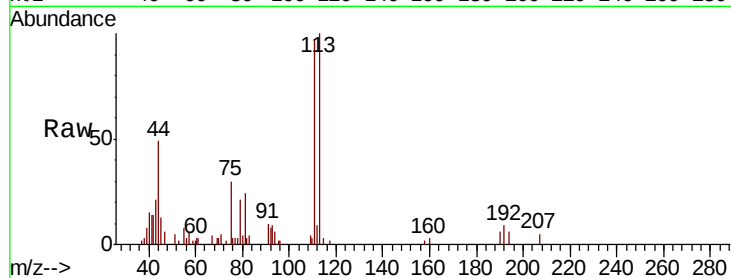
Tot Ion: 42 Resp: 1175

Ion Ratio Lower Upper

42 100

72 23.9 31.4 47.0#

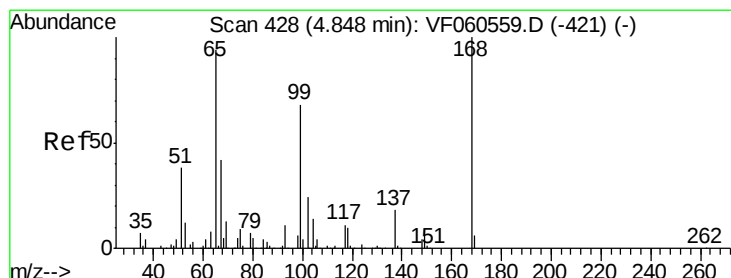
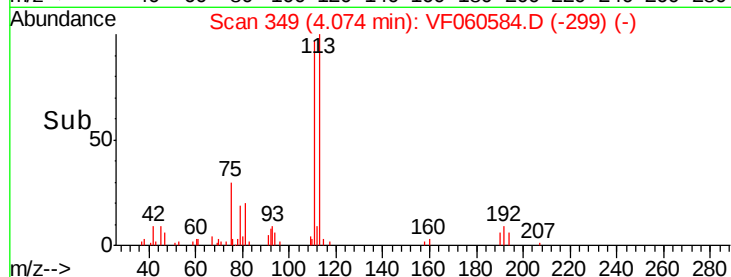
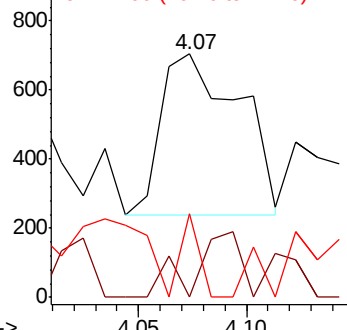
71 0.0 31.8 47.6#



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: 42.731 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF060584.D

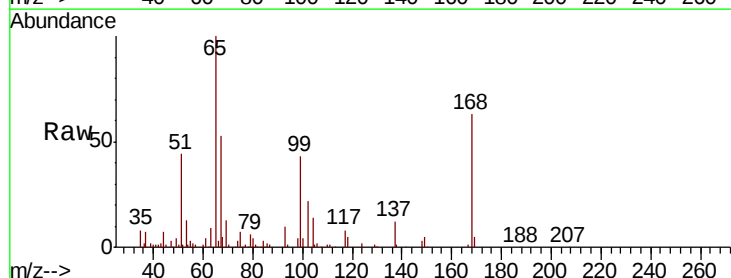
Acq: 5 Nov 2018 21:09

Tgt Ion: 65 Resp: 125674

Ion Ratio Lower Upper

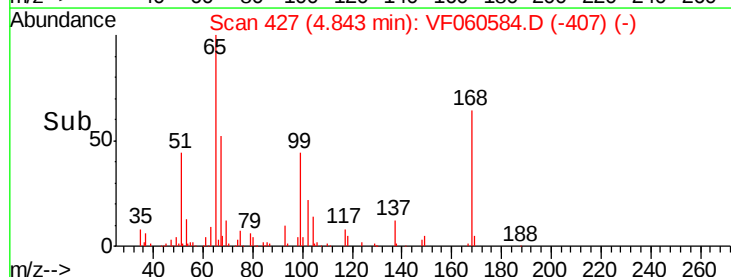
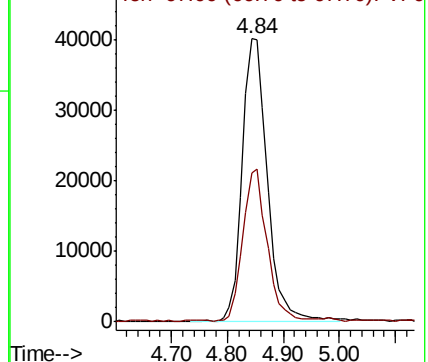
65 100

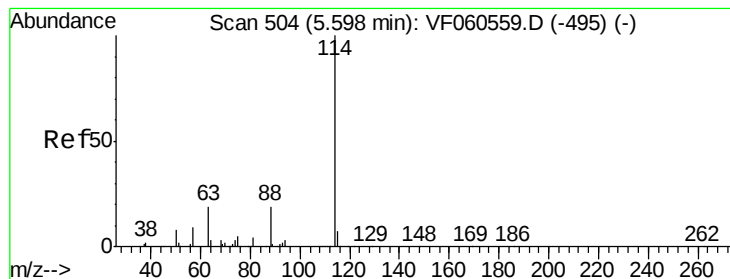
67 52.5 0.0 101.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.00 min

Lab File: VF060584.D

Acq: 5 Nov 2018 21:09

Instrument :

MSVOA_F

ClientSampled :

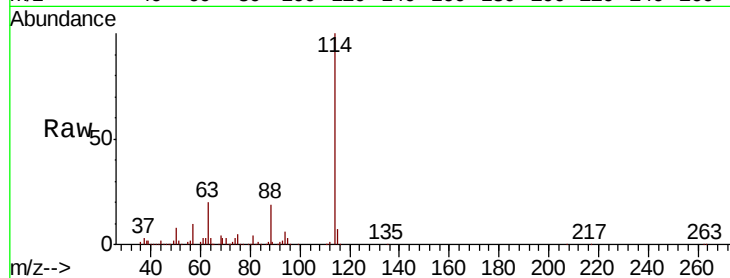
Tot Ion:114 Resp: 535963

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

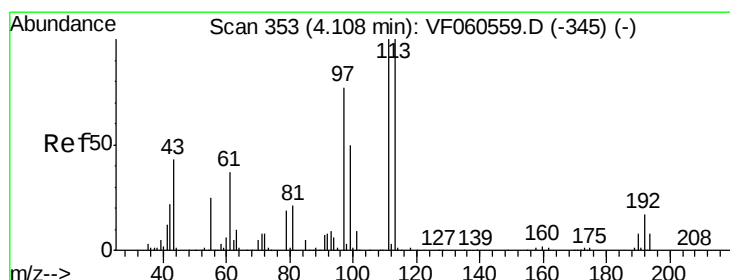
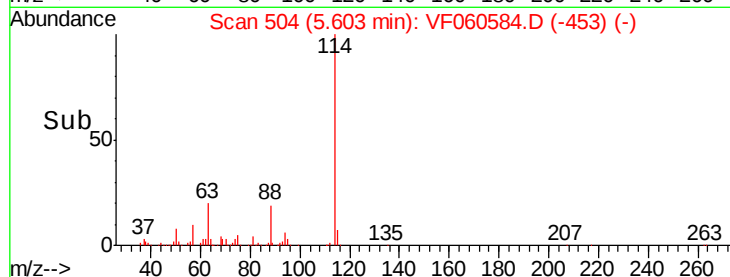
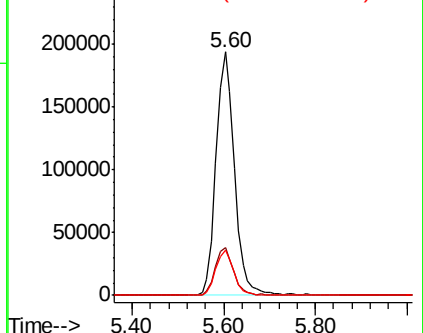
88 18.6 0.0 38.2



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: 40.224 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF060584.D

Acq: 5 Nov 2018 21:09

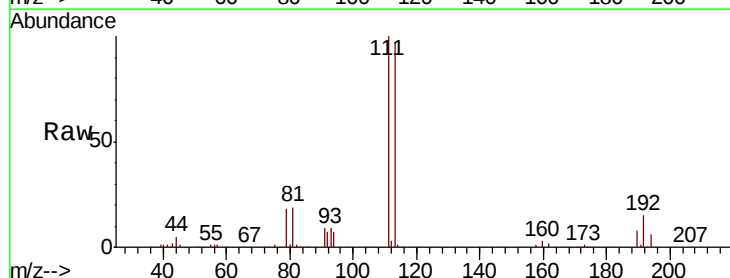
Tgt Ion:113 Resp: 166560

Ion Ratio Lower Upper

113 100

111 103.0 79.9 119.9

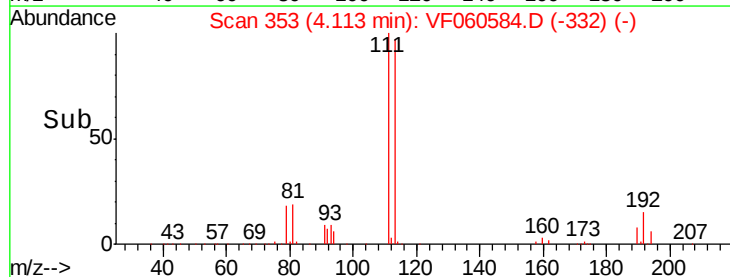
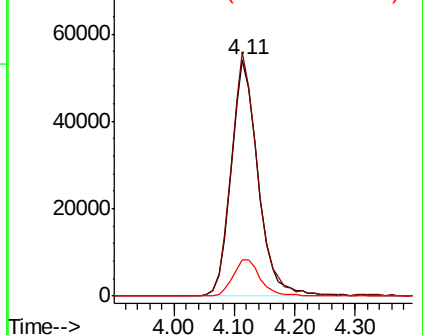
192 15.4 13.3 19.9

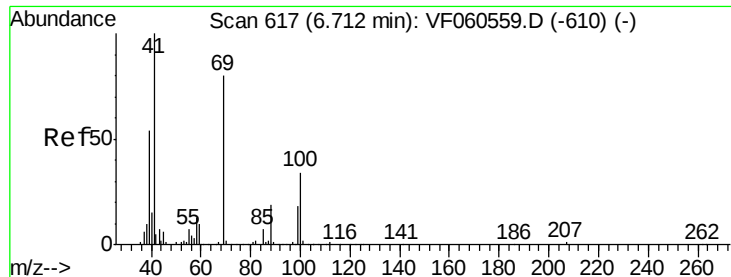


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

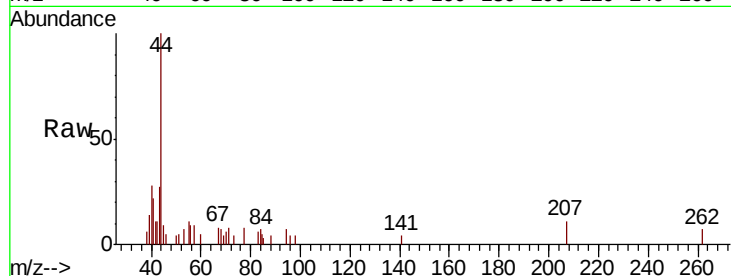




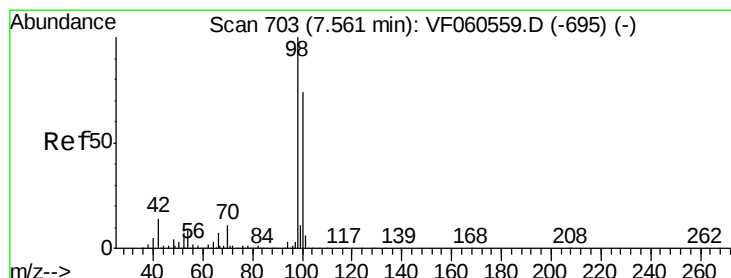
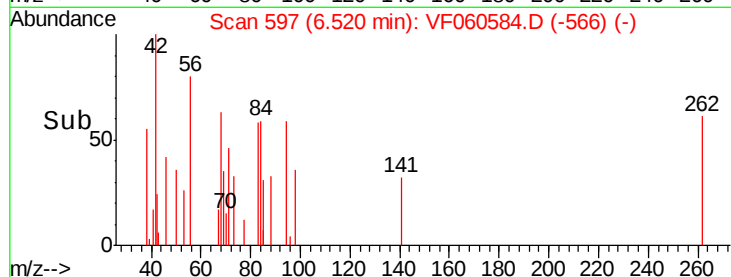
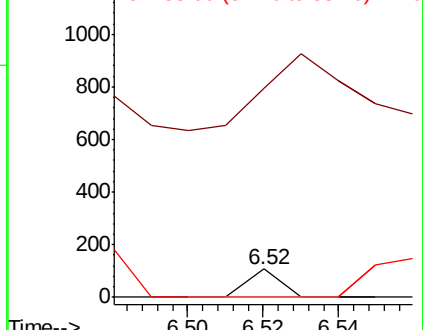
#49
1,4-Dioxane
Concen: 2.717 ug/l
RT: 6.52 min Scan# 597
Delta R.T. -0.19 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 734.3 61.2 91.8#
58 0.0 56.9 85.3#

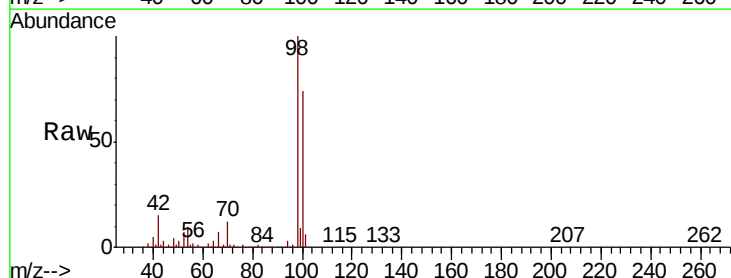


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

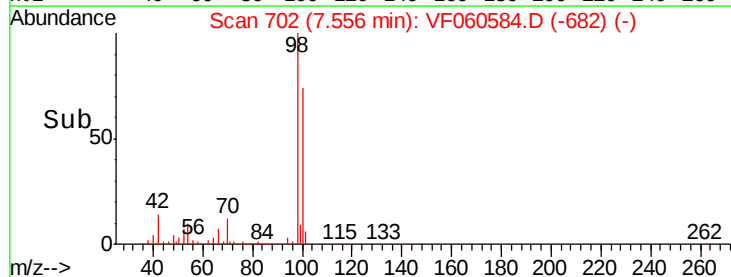
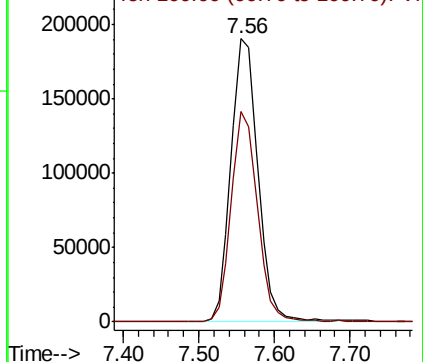


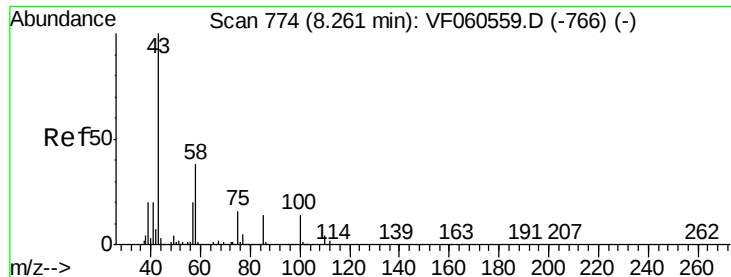
#50
Toluene-d8
Concen: 38.413 ug/l
RT: 7.56 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Tgt Ion: 98 Resp: 471188
Ion Ratio Lower Upper
98 100
100 74.2 59.4 89.2



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





#51

4-Methyl-2-Pentanone

Concen: 1.201 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.00 min

Lab File: VF060584.D

Acq: 5 Nov 2018 21:09

Instrument :

MSVOA_F

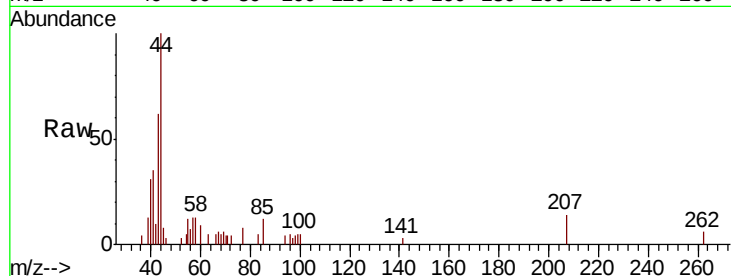
ClientSampleId :

Tot Ion: 43 Resp: 2894

Ion Ratio Lower Upper

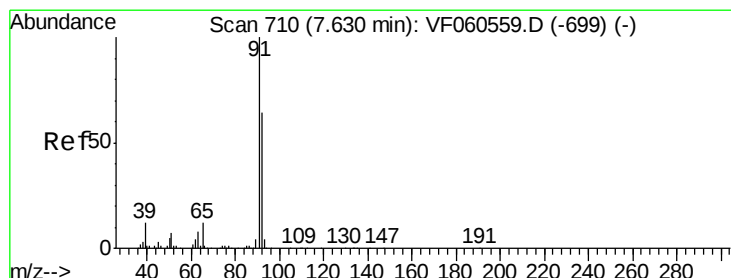
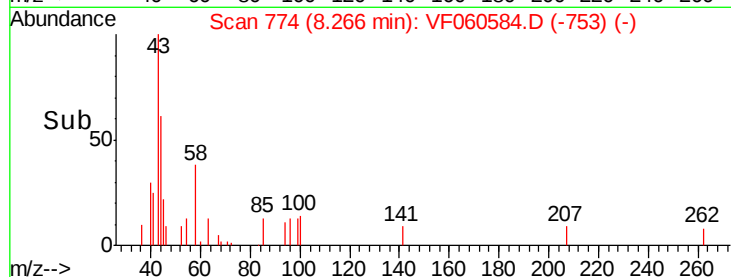
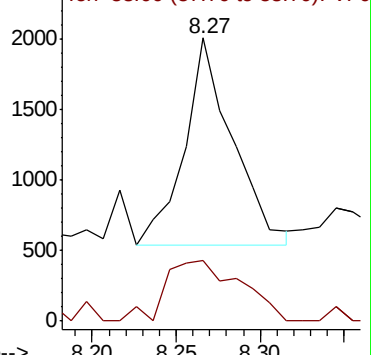
43 100

58 21.6 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: 7.64 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF060584.D

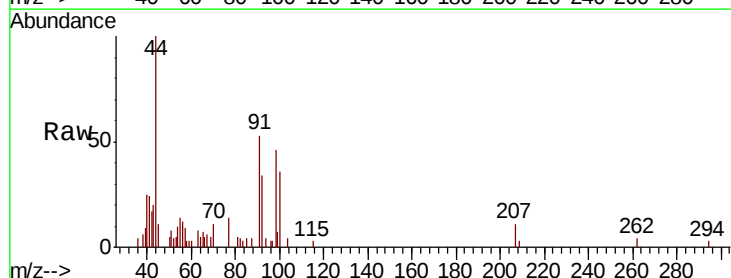
Acq: 5 Nov 2018 21:09

Tgt Ion: 63 Resp: 568

Ion Ratio Lower Upper

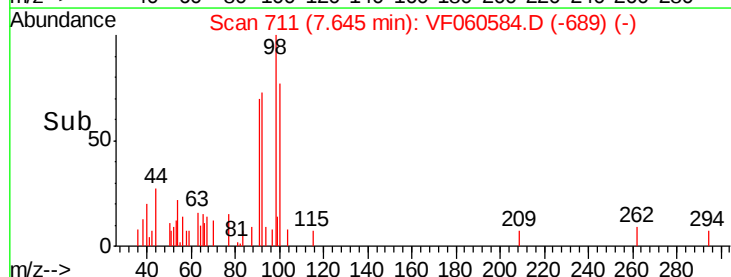
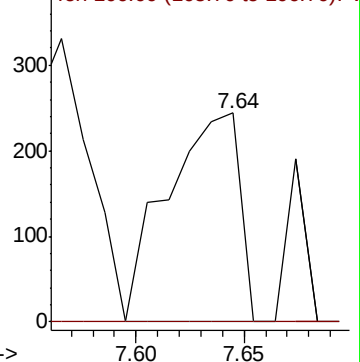
63 100

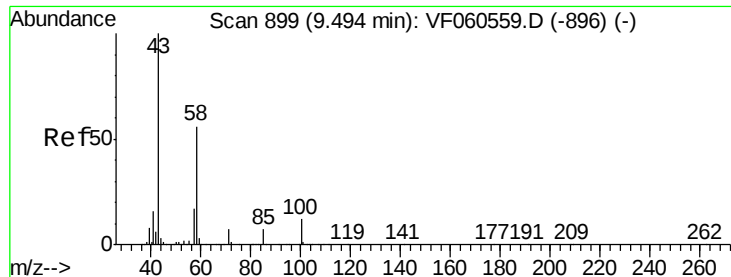
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

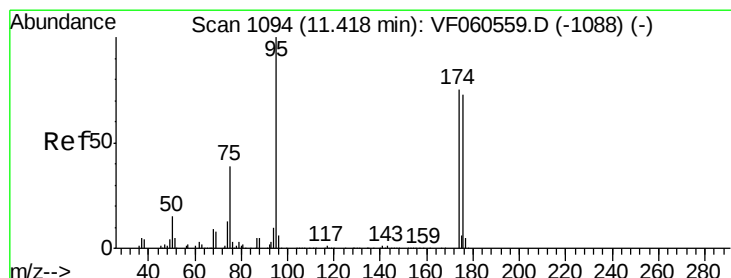
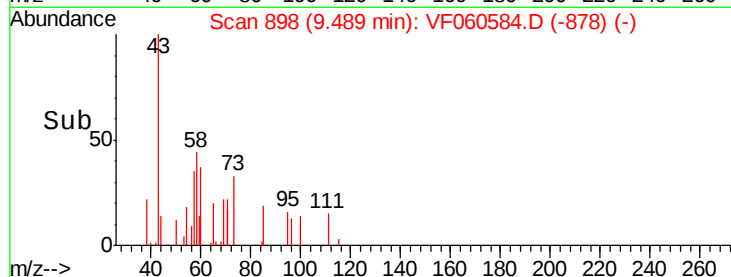
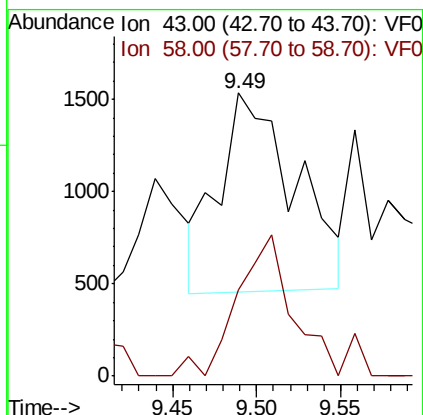
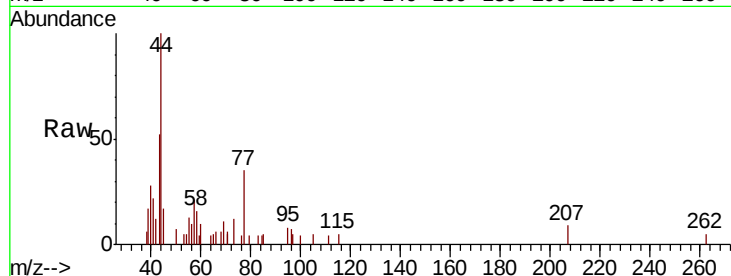




#59
2-Hexanone
Concen: Below Cal
RT: 9.49 min Scan# 898
Delta R.T. -0.00 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

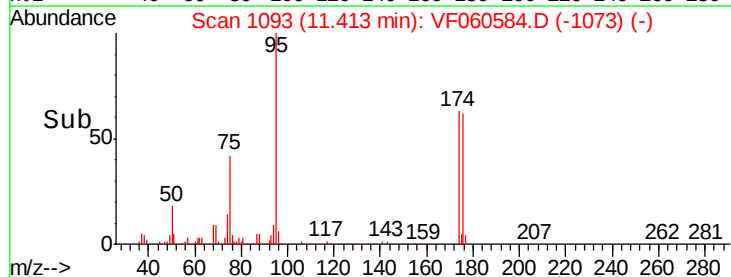
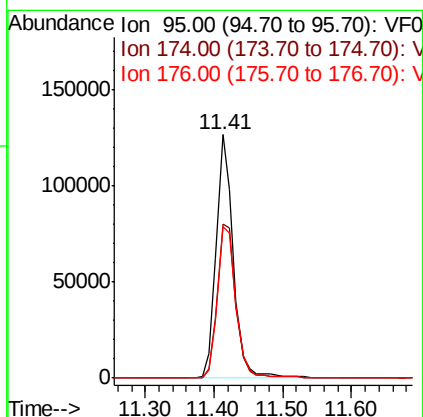
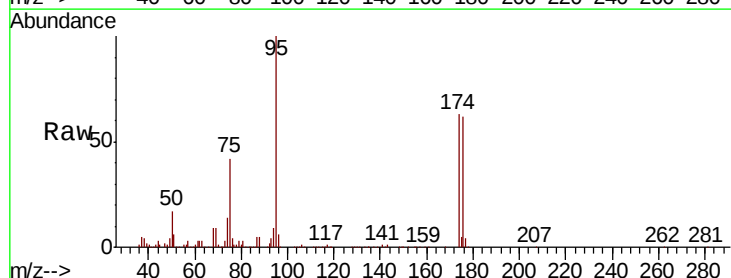
Instrument :
MSVOA_F
ClientSampleId :

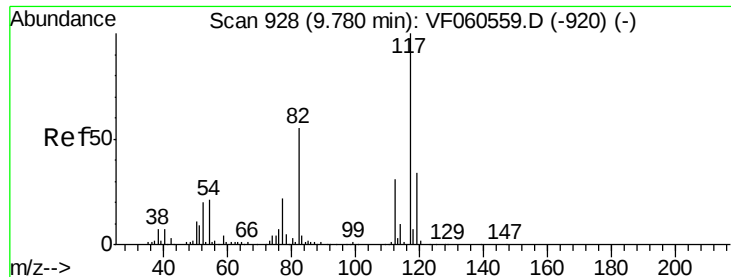
Tot Ion: 43 Resp: 3400
Ion Ratio Lower Upper
43 100
58 30.4 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 40.773 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Tgt Ion: 95 Resp: 218765
Ion Ratio Lower Upper
95 100
174 63.2 0.0 149.0
176 62.0 0.0 145.6

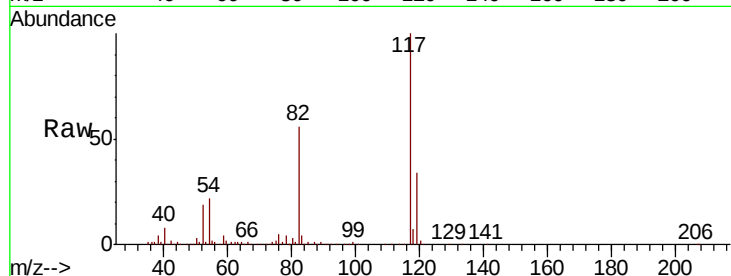




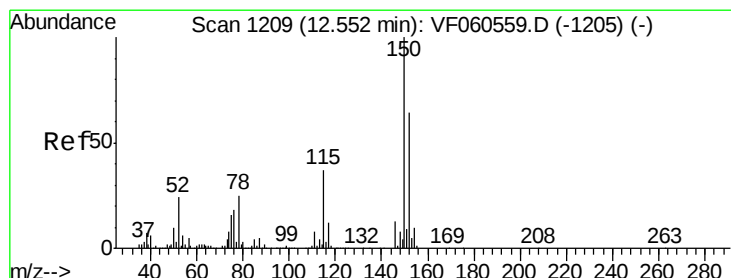
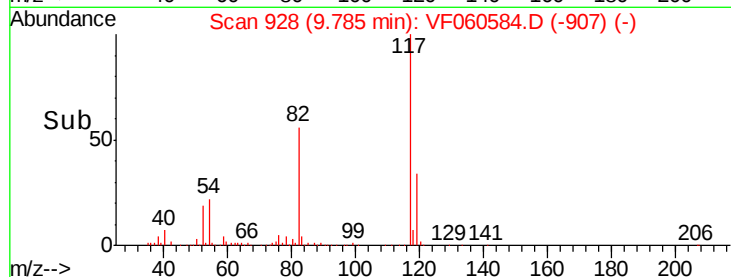
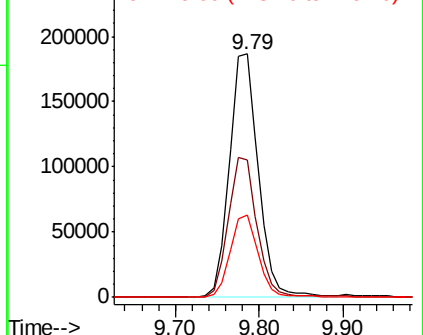
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. 0.00 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.2	43.9	65.9
119	33.9	27.4	41.0

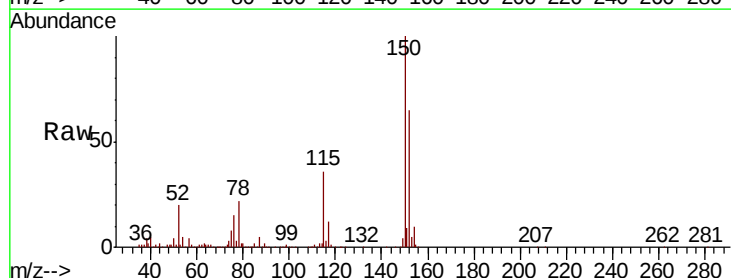


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

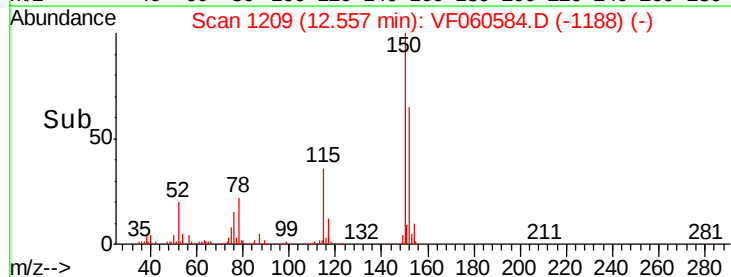
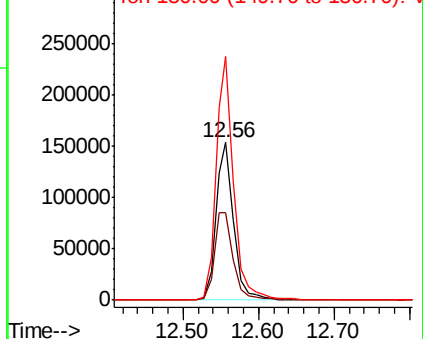


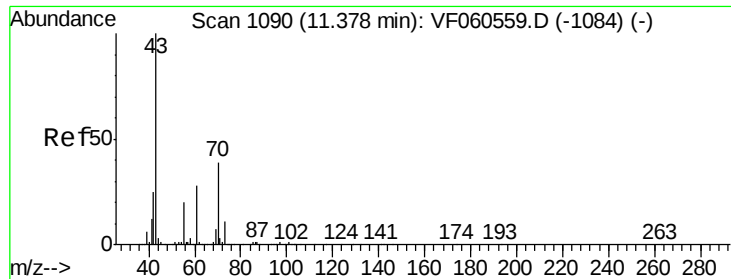
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF060584.D
Acq: 5 Nov 2018 21:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.6	29.6	88.8
150	154.7	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: 11.30 min Scan# 1082
 Delta R.T. -0.07 min
 Lab File: VF060584.D
 Acq: 5 Nov 2018 21:09

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 702
 Ion Ratio Lower Upper
 43 100
 70 13.3 30.9 46.3#
 55 34.9 16.6 24.8#
 61 0.0 22.0 33.0#

