

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072318\
 Data File : VW004150.D
 Acq On : 23 Jul 2018 20:49
 Operator : SY/AP
 Sample : J4026-08
 Misc : 5.01G/5ML/MSVOA W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 24 04:47:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W071618S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 16 15:06:12 2018
 Response via : Initial Calibration

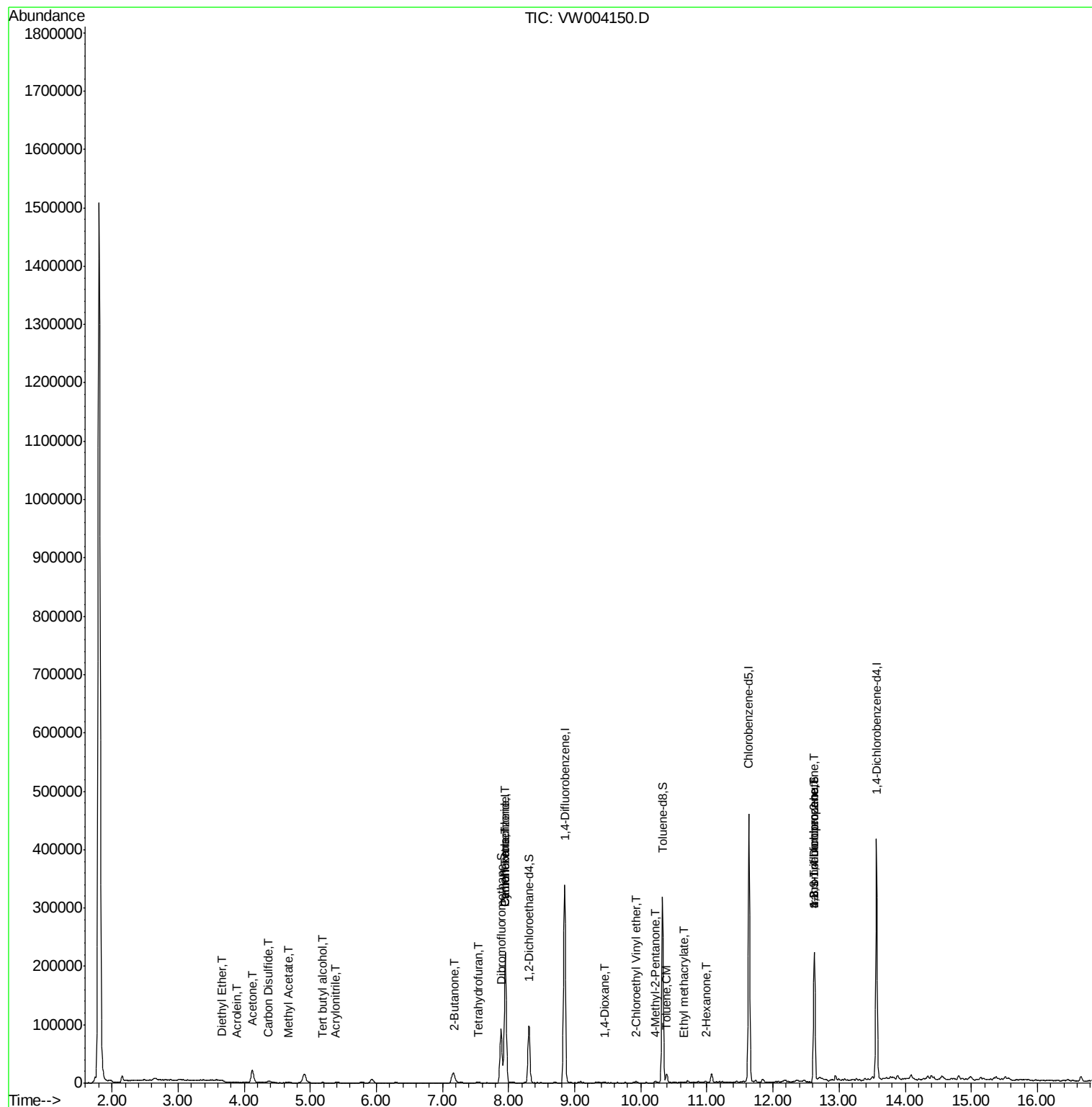
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	162260	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	272860	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	248262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	103357	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	77635	42.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.60%	
35) Dibromofluoromethane	7.88	113	66061	37.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.46%	
50) Toluene-d8	10.33	98	210504	30.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	61.98%	
62) 4-Bromofluorobenzene	12.62	95	71610	29.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	58.46%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.67	74	819	1.019	ug/l	89
11) Tert butyl alcohol	5.19	59	765	6.110	ug/l #	72
13) Acrolein	3.89	56	574	4.462	ug/l	90
15) Acrylonitrile	5.38	53	697	1.692	ug/l #	86
16) Acetone	4.12	43	38754	88.918	ug/l	98
17) Carbon Disulfide	4.37	76	5978	1.215	ug/l	99
18) Methyl Acetate	4.68	43	1176	1.124	ug/l #	77
20) Methylene Chloride	4.92	84	12915	Below Cal		86
25) 2-Butanone	7.18	43	12481	21.280	ug/l	98
29) Tetrahydrofuran	7.54	42	1135	3.107	ug/l #	76
31) Cyclohexane	7.95	56	4874	1.620	ug/l #	5
38) Carbon Tetrachloride	7.95	117	16461	6.275	ug/l #	17
49) 1,4-Dioxane	9.46	88	64	4.036	ug/l #	1
51) 4-Methyl-2-Pentanone	10.22	43	1951	1.446	ug/l	92
52) Toluene	10.39	92	5926	1.230	ug/l	99
56) Ethyl methacrylate	10.65	69	313	3.088	ug/l #	75
58) 2-Chloroethyl Vinyl ether	9.93	63	1035	1.203	ug/l	97
59) 2-Hexanone	10.98	43	1434	1.508	ug/l	65
76) 1,2,3-Trichloropropane	12.62	75	36587	35.656	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	36587	78.871	ug/l #	11

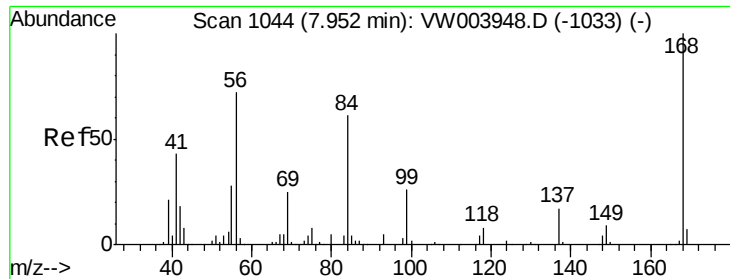
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

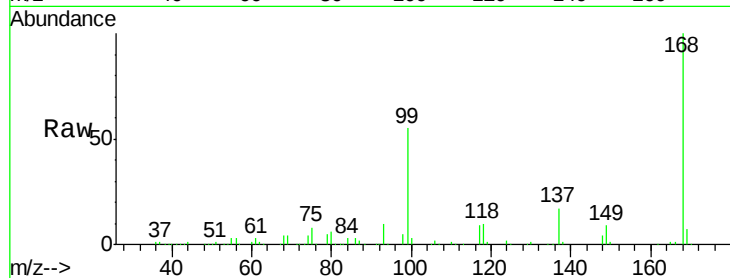
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 162260

Ion Ratio Lower Upper

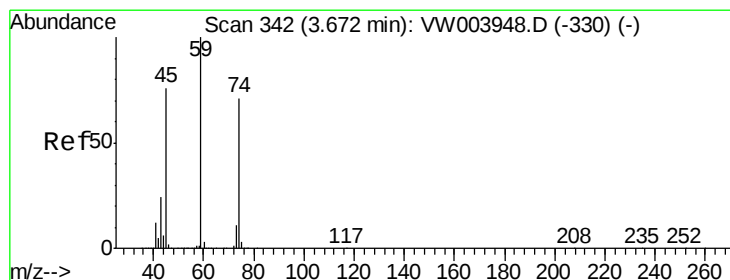
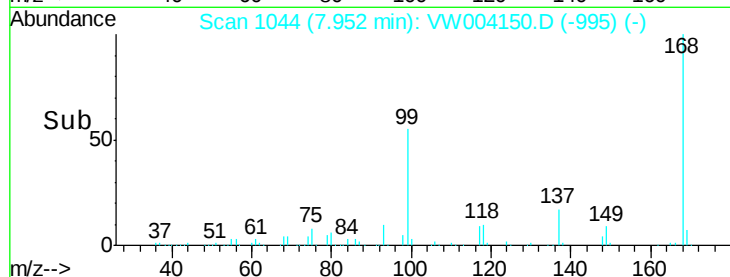
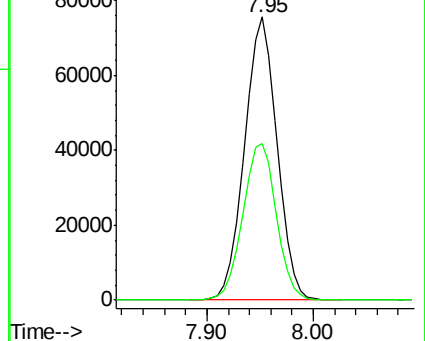
168 100

99 55.3 43.8 65.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.019 ug/l

RT: 3.67 min Scan# 342

Delta R.T. 0.00 min

Lab File: VW004150.D

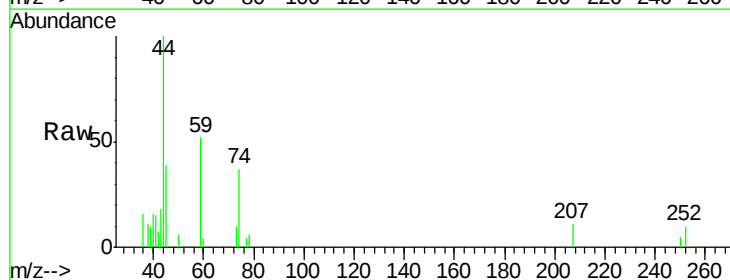
Acq: 23 Jul 2018 20:49

Tgt Ion: 74 Resp: 819

Ion Ratio Lower Upper

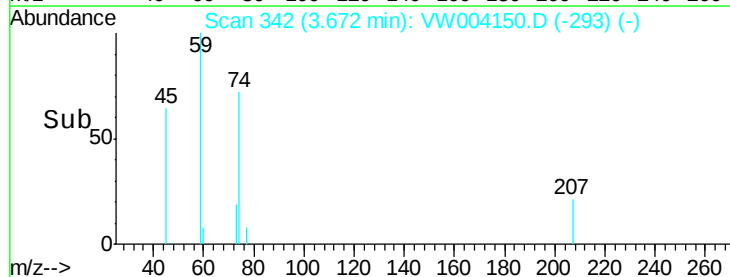
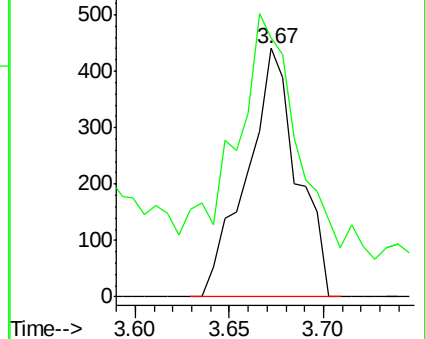
74 100

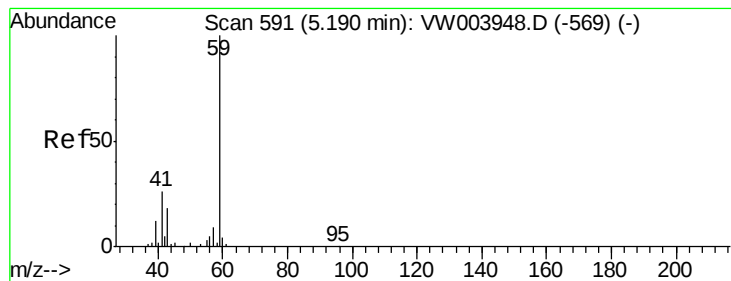
45 118.8 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



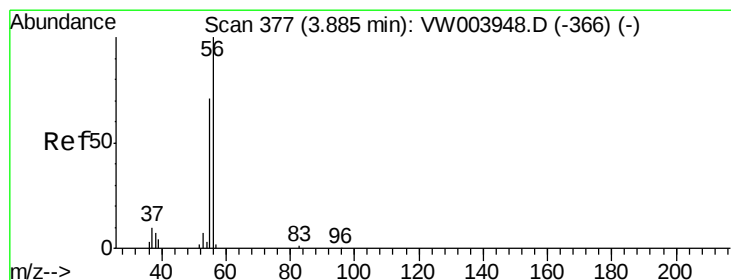
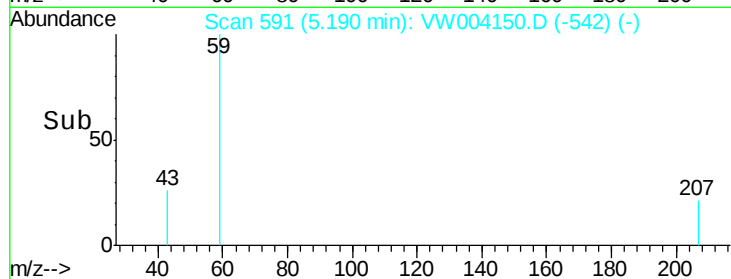
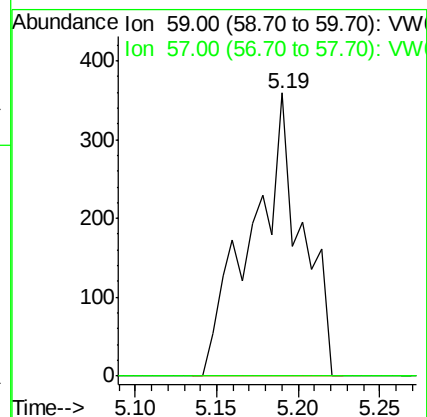
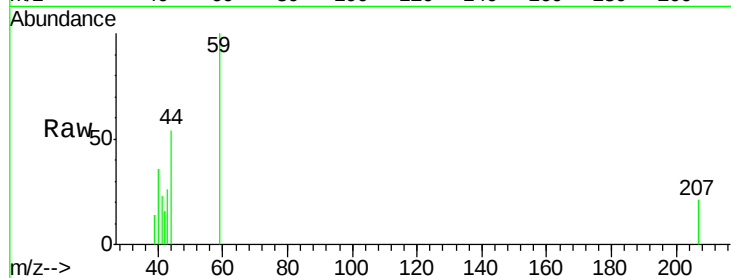


#11

Tert butvl alcohol
 Concen: 6.110 ug/l
 RT: 5.19 min Scan# 591
 Delta R.T. 0.00 min
 Lab File: VW004150.D
 Acq: 23 Jul 2018 20:49

Instrument :
 MSVOA_W
 ClientSampleId :

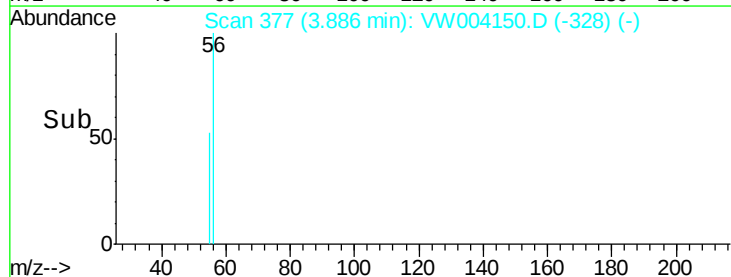
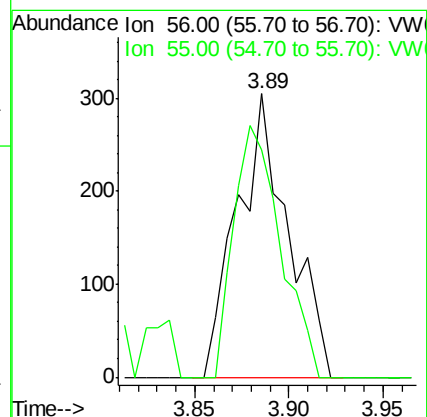
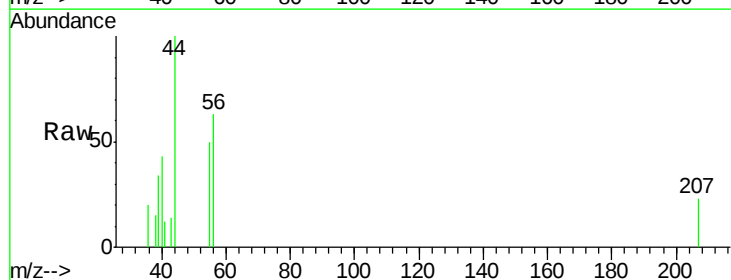
Tot Ion: 59 Resp: 765
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

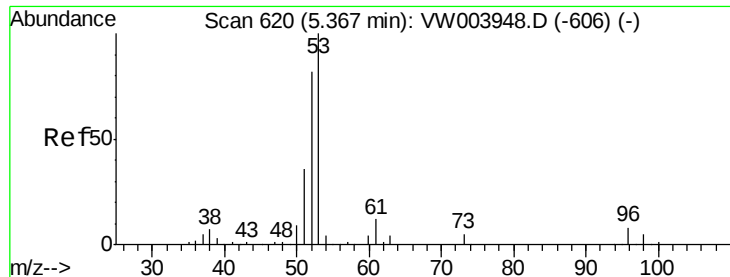


#13

Acrolein
 Concen: 4.462 ug/l
 RT: 3.89 min Scan# 377
 Delta R.T. 0.00 min
 Lab File: VW004150.D
 Acq: 23 Jul 2018 20:49

Tgt Ion: 56 Resp: 574
 Ion Ratio Lower Upper
 56 100
 55 81.4 58.2 87.4





#15

Acrylonitrile

Concen: 1.692 ug/l

RT: 5.38 min Scan# 622

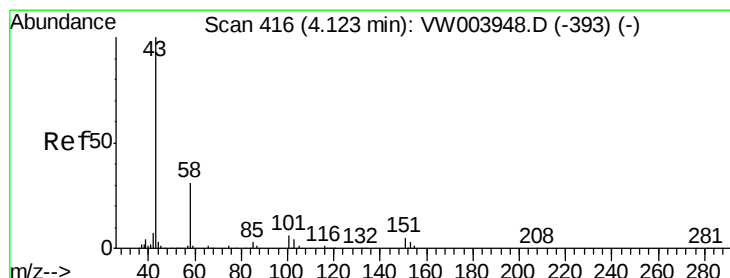
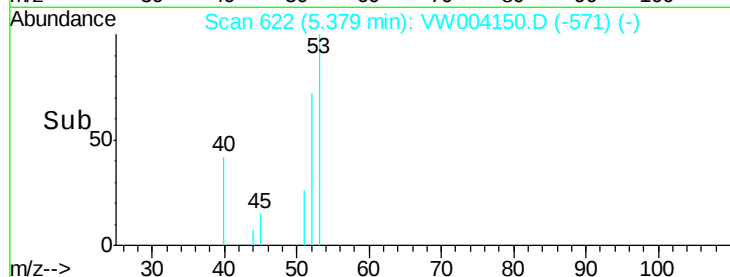
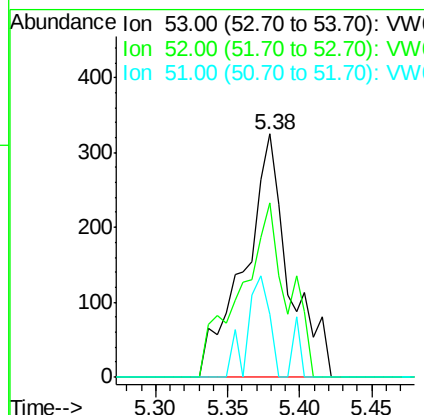
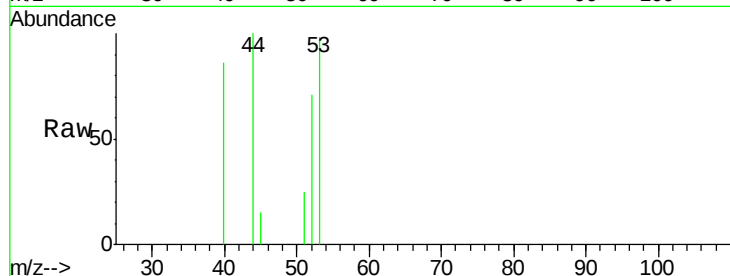
Delta R.T. 0.01 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:	53	Resp:	697
Ion	Ratio	Lower	Upper
53	100		
52	75.9	66.1	99.1
51	20.7	29.8	44.6#



#16

Acetone

Concen: 88.918 ug/l

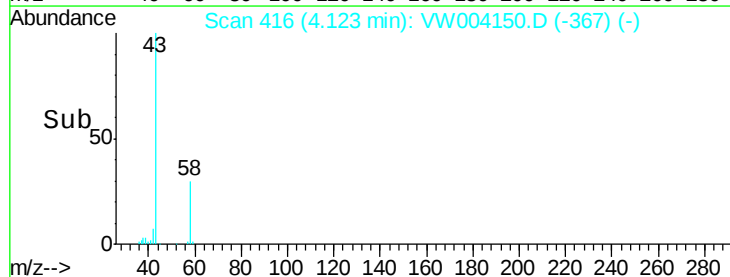
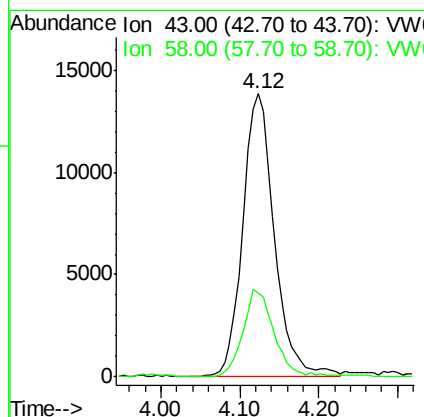
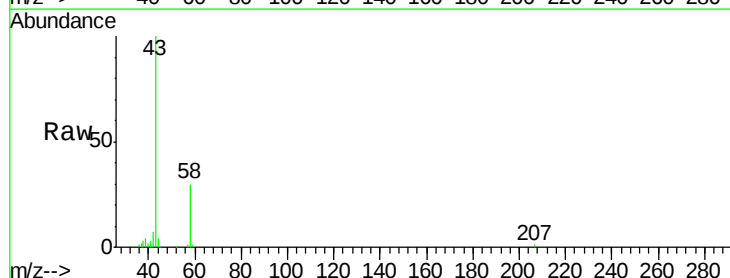
RT: 4.12 min Scan# 416

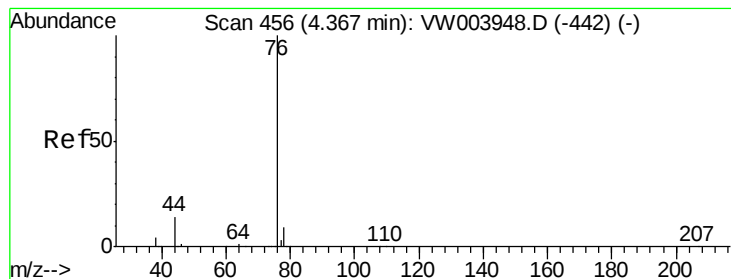
Delta R.T. 0.00 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

Tgt Ion:	43	Resp:	38754
Ion	Ratio	Lower	Upper
43	100		
58	29.6	24.5	36.7





#17

Carbon Disulfide

Concen: 1.215 ug/l

RT: 4.37 min Scan# 457

Delta R.T. 0.01 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

Instrument :

MSVOA_W

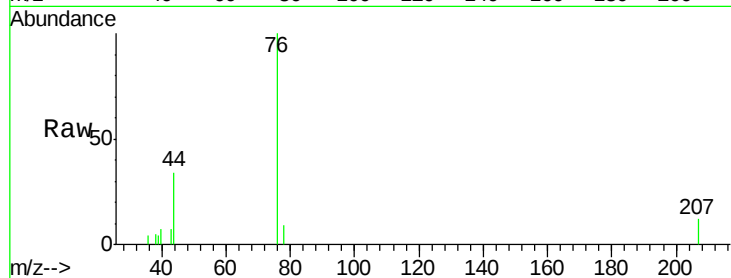
ClientSampled :

Tot Ion: 76 Resp: 5978

Ion Ratio Lower Upper

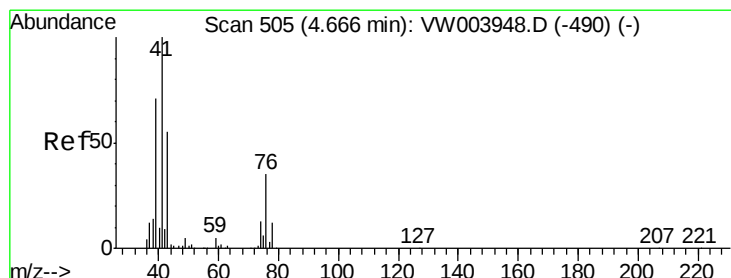
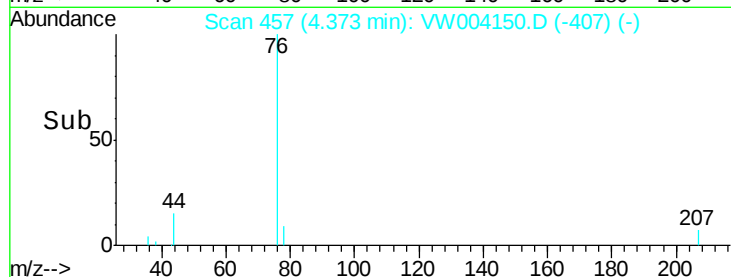
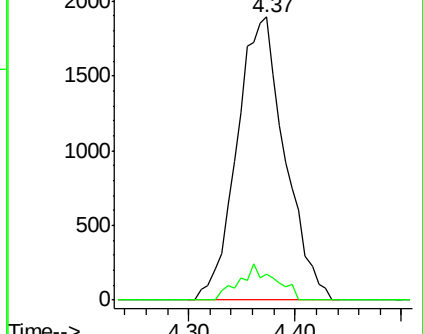
76 100

78 9.4 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 1.124 ug/l

RT: 4.68 min Scan# 507

Delta R.T. 0.01 min

Lab File: VW004150.D

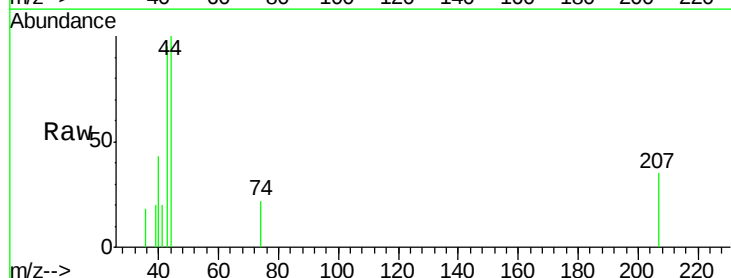
Acq: 23 Jul 2018 20:49

Tgt Ion: 43 Resp: 1176

Ion Ratio Lower Upper

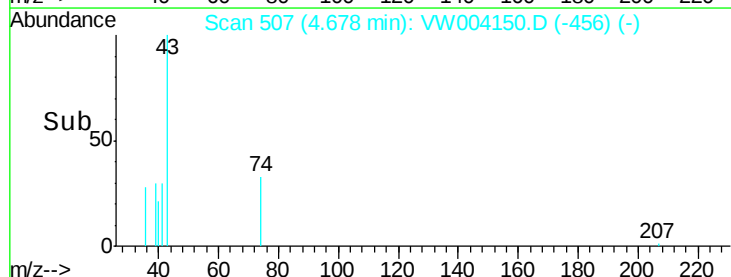
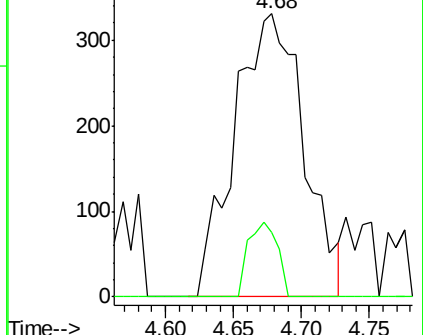
43 100

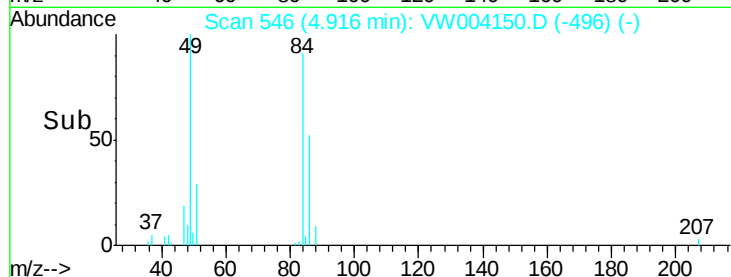
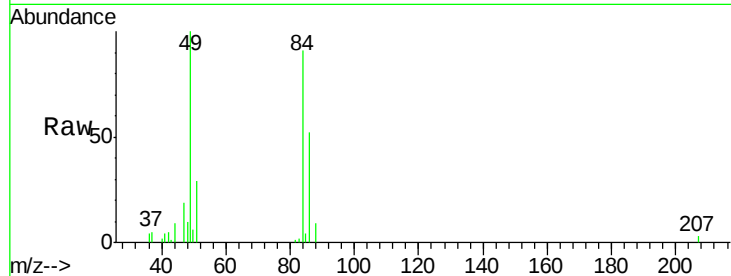
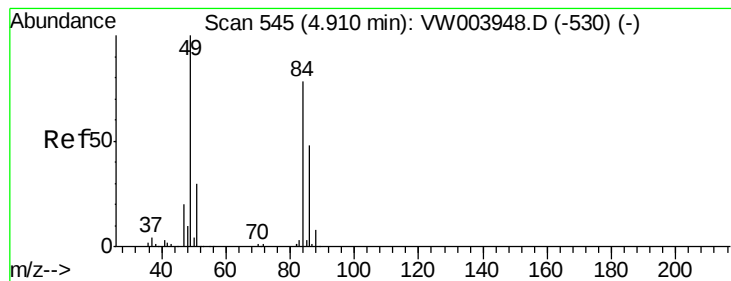
74 11.1 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW





#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 546

Delta R.T. 0.01 min

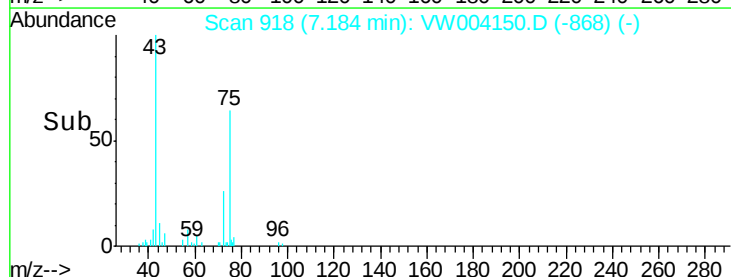
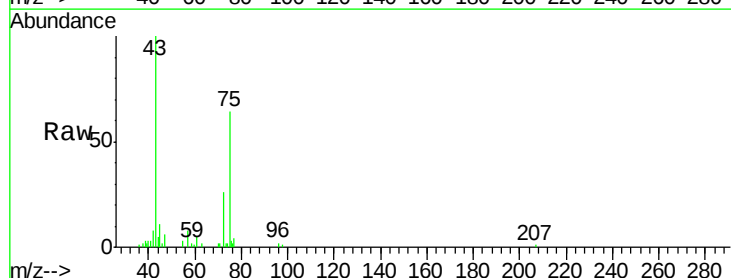
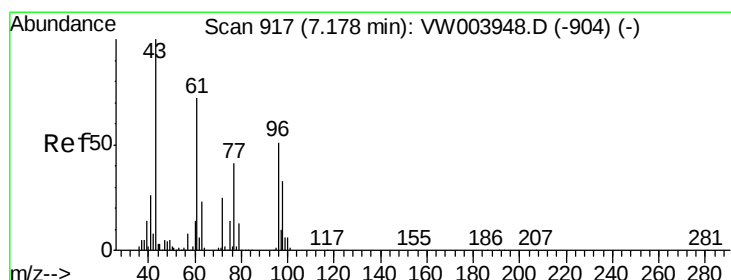
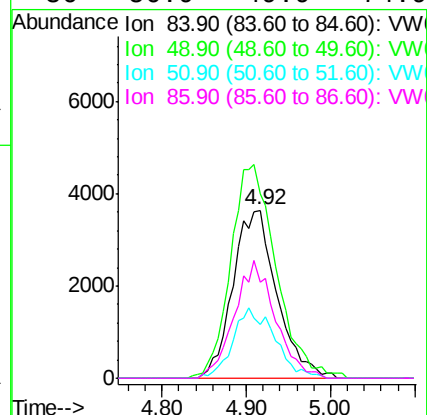
Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 12915

Ion	Ratio	Lower	Upper
84	100		
49	108.2	102.9	154.3
51	32.0	30.9	46.3
86	56.9	49.9	74.9



#25

2-Butanone

Concen: 21.280 ug/l

RT: 7.18 min Scan# 918

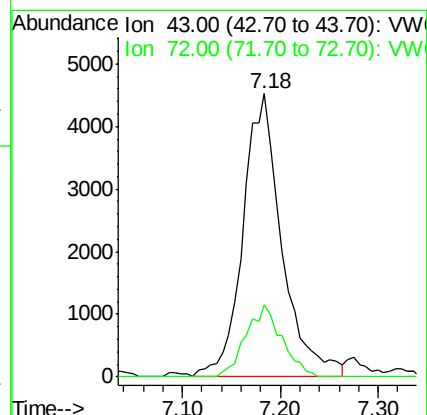
Delta R.T. 0.01 min

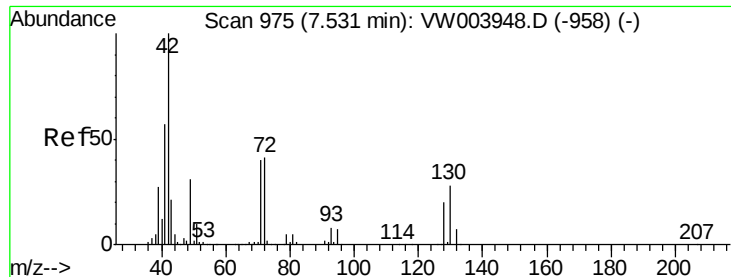
Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

Tgt Ion: 43 Resp: 12481

Ion	Ratio	Lower	Upper
43	100		
72	25.6	19.8	29.6

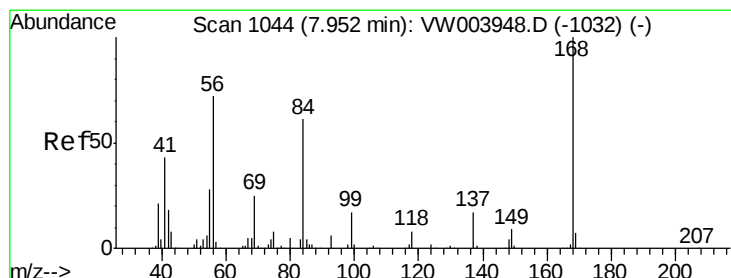
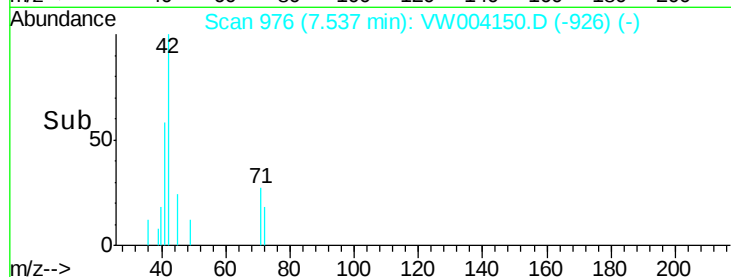
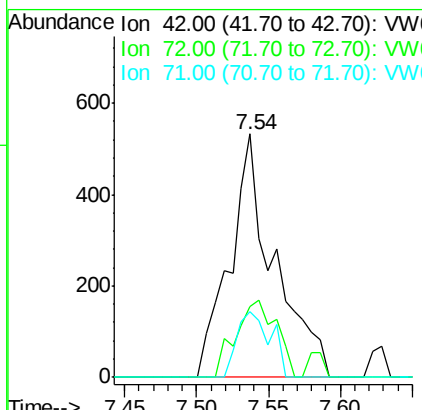
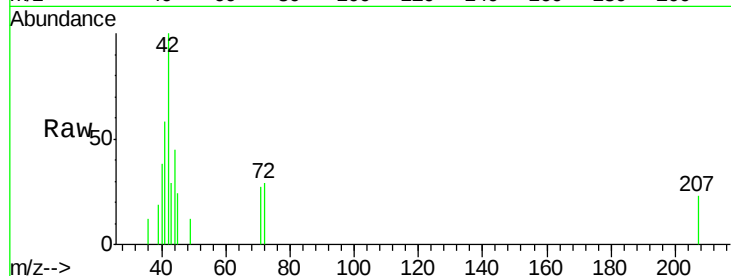




#29
Tetrahydrofuran
Concen: 3.107 ug/l
RT: 7.54 min Scan# 976
Delta R.T. 0.01 min
Lab File: VW004150.D
Acq: 23 Jul 2018 20:49

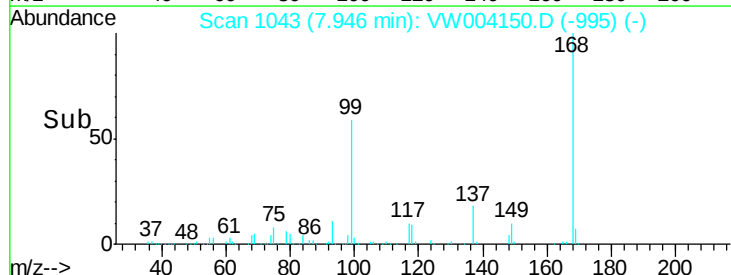
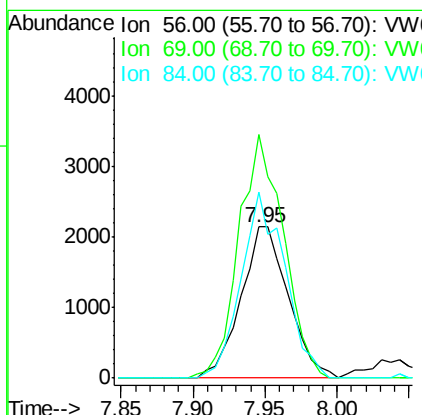
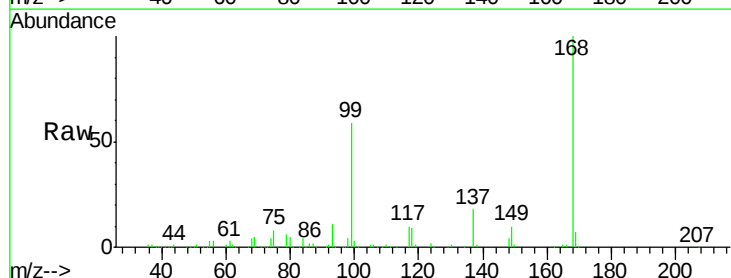
Instrument :
MSVOA_W
ClientSampleId :

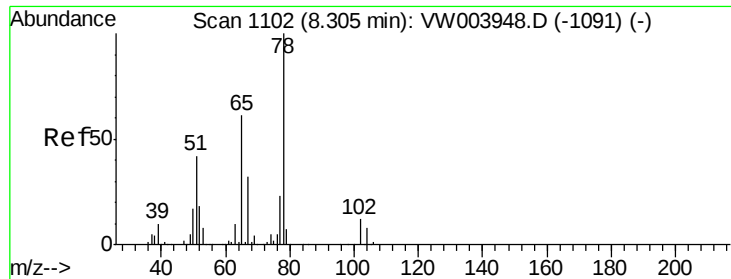
Tot Ion: 42 Resp: 1135
Ion Ratio Lower Upper
42 100
72 29.0 32.6 48.8#
71 20.4 30.5 45.7#



#31
Cyclohexane
Concen: 1.620 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VW004150.D
Acq: 23 Jul 2018 20:49

Tgt Ion: 56 Resp: 4874
Ion Ratio Lower Upper
56 100
69 161.3 27.8 41.8#
84 123.5 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 42.804 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

Instrument :

MSVOA_W

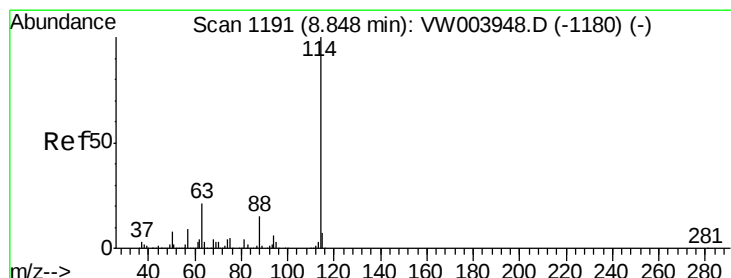
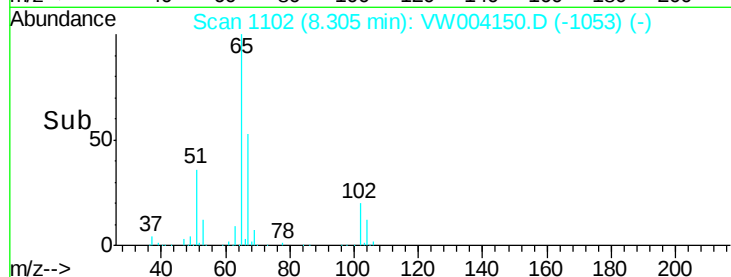
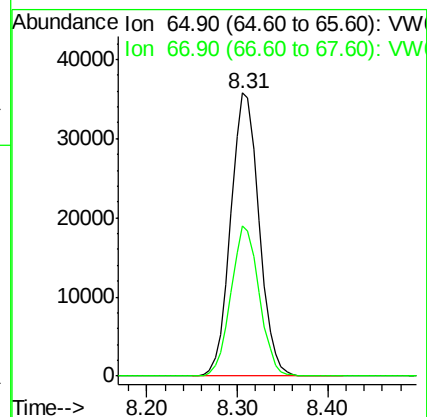
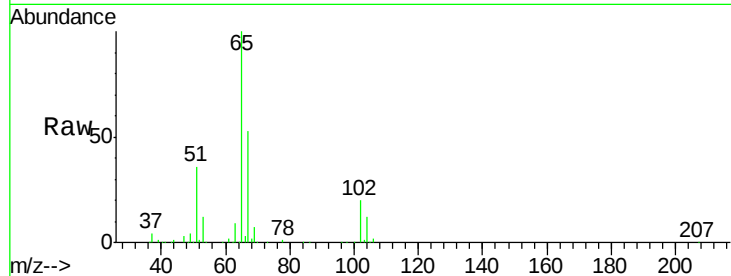
ClientSampled :

Tot Ion: 65 Resp: 77635

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

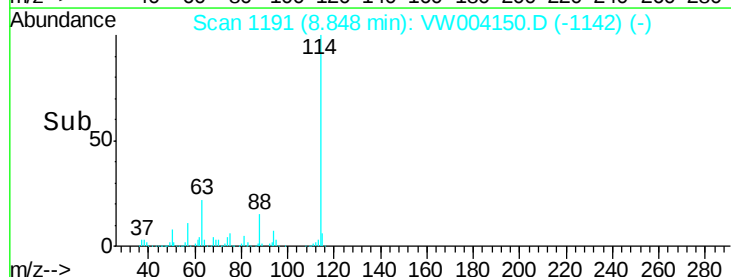
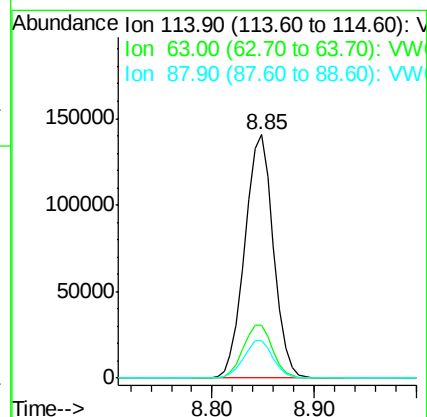
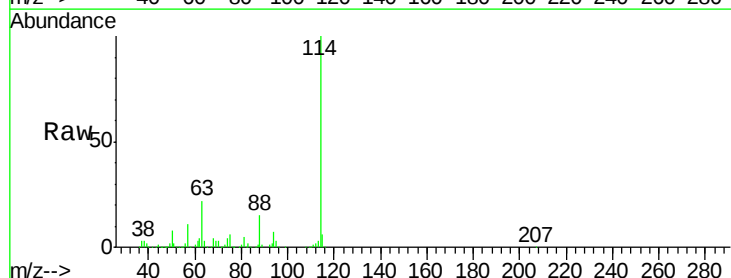
Tgt Ion: 114 Resp: 272860

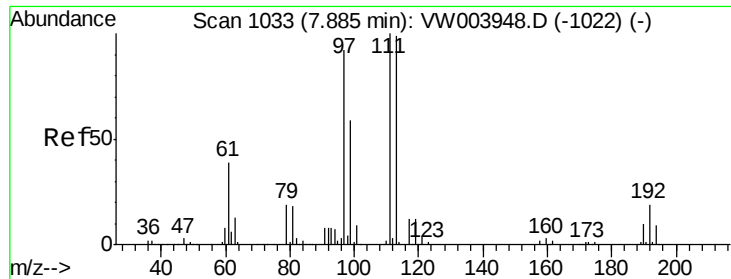
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.8

88 15.2 0.0 30.4

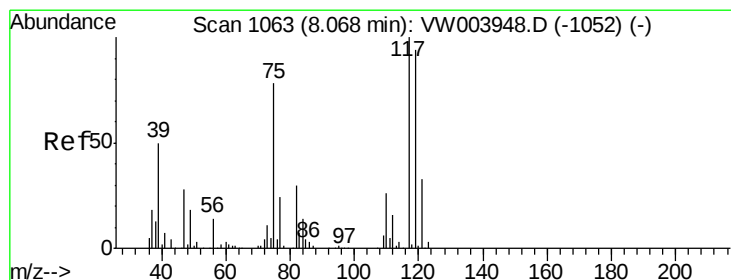
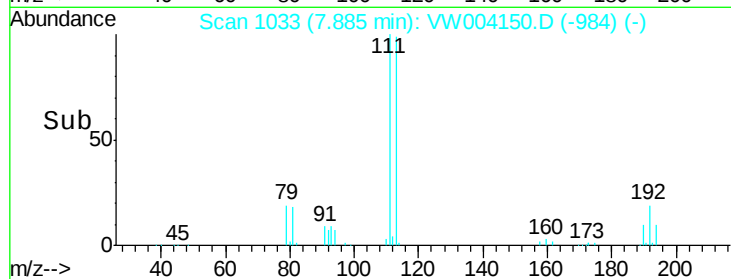
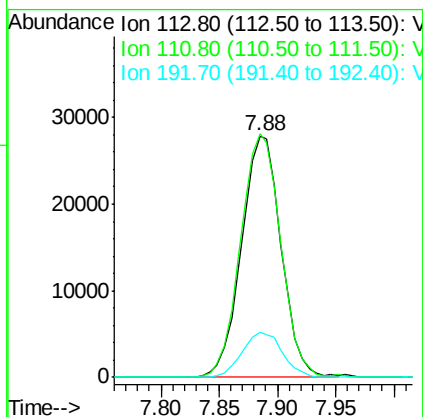
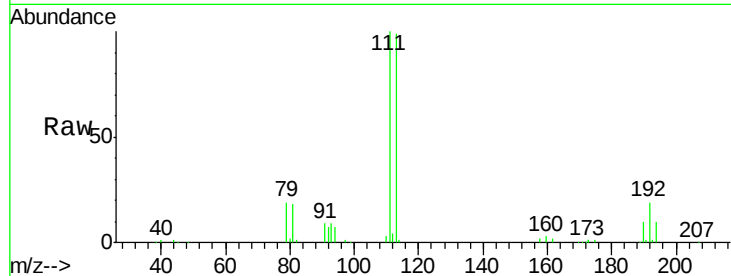




#35
 Dibromofluoromethane
 Concen: 37.733 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. 0.00 min
 Lab File: VW004150.D
 Acq: 23 Jul 2018 20:49

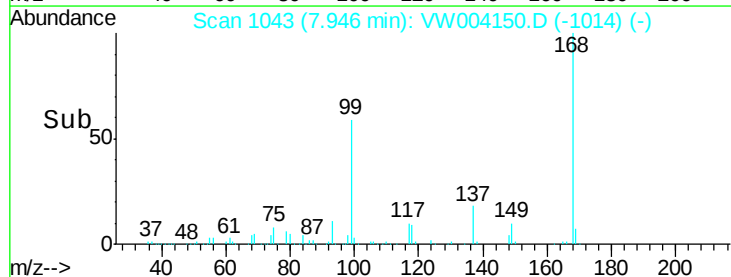
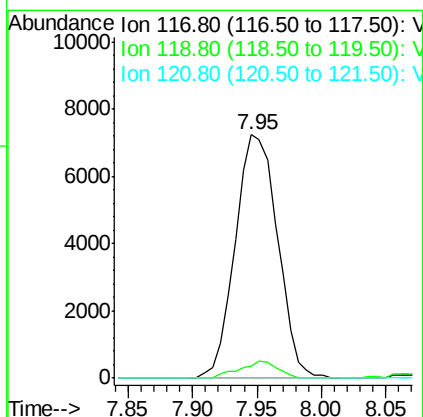
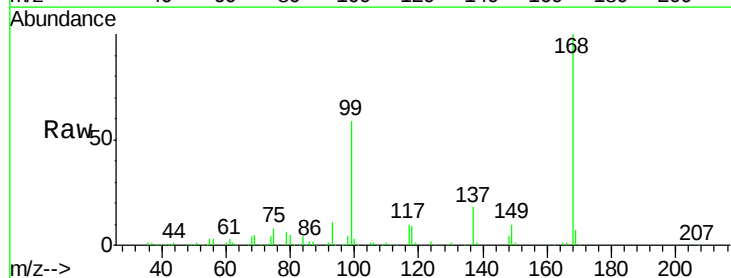
Instrument :
 MSVOA_W
 ClientSampleId :

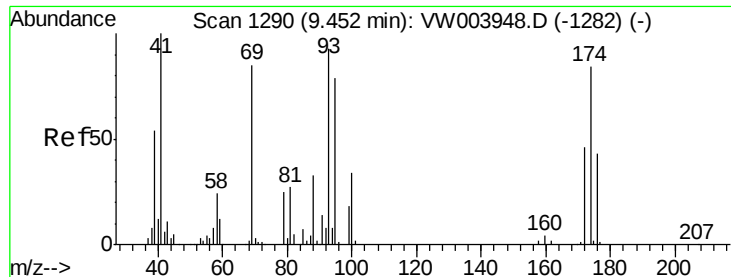
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.3	121.9
192	19.1	15.8	23.6



#38
 Carbon Tetrachloride
 Concen: 6.275 ug/l
 RT: 7.95 min Scan# 1043
 Delta R.T. -0.12 min
 Lab File: VW004150.D
 Acq: 23 Jul 2018 20:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	75.3	112.9#
121	0.0	26.0	39.0#

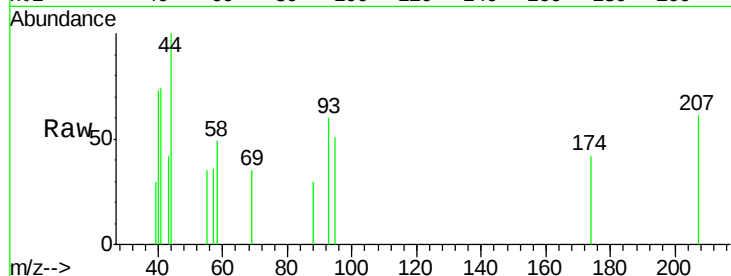




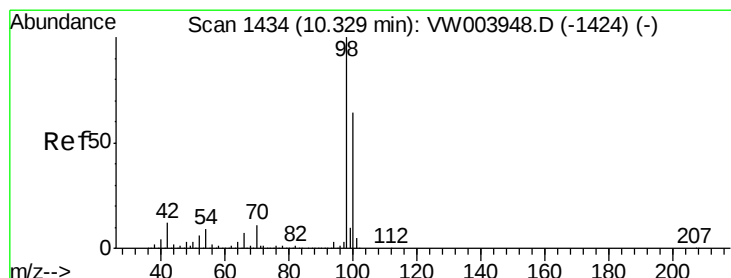
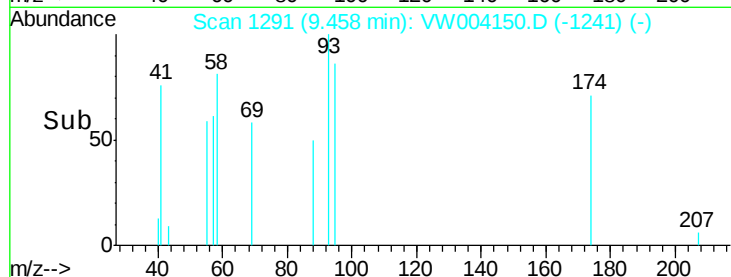
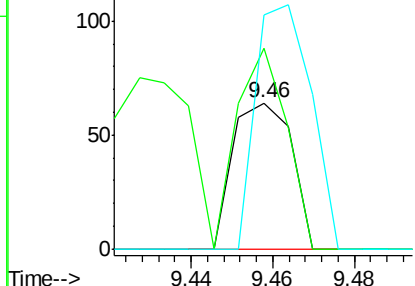
#49
1,4-Dioxane
Concen: 4.036 ug/l
RT: 9.46 min Scan# 1291
Delta R.T. 0.01 min
Lab File: VW004150.D
Acq: 23 Jul 2018 20:49

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 117.2 27.3 40.9#
58 159.4 61.1 91.7#

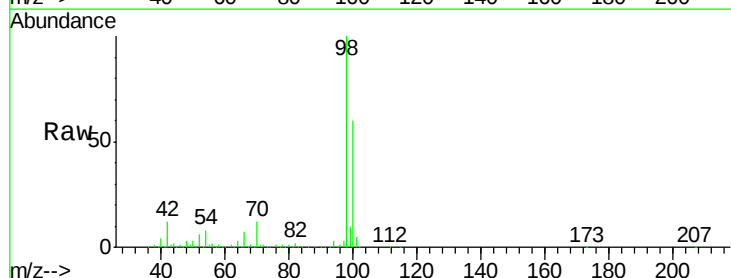


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

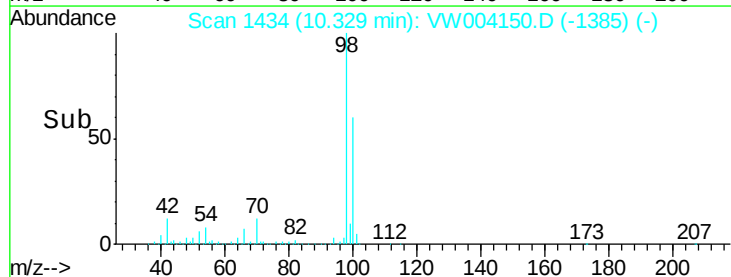
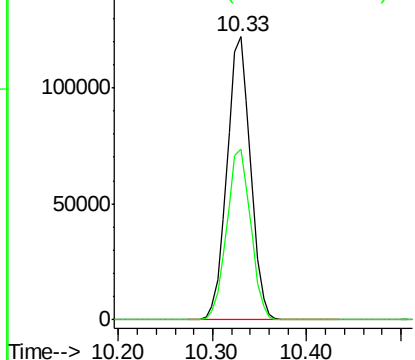


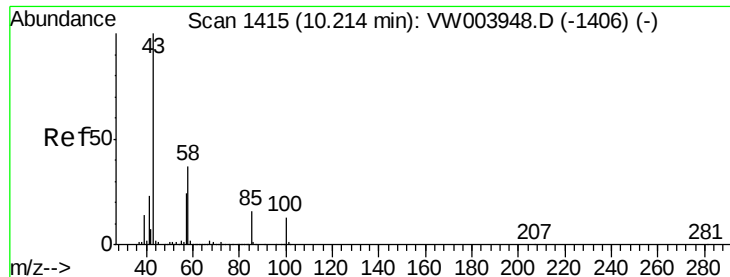
#50
Toluene-d8
Concen: 30.987 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VW004150.D
Acq: 23 Jul 2018 20:49

Tgt Ion: 98 Resp: 210504
Ion Ratio Lower Upper
98 100
100 61.7 51.2 76.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.446 ug/l

RT: 10.22 min Scan# 1416

Delta R.T. 0.01 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

Instrument :

MSVOA_W

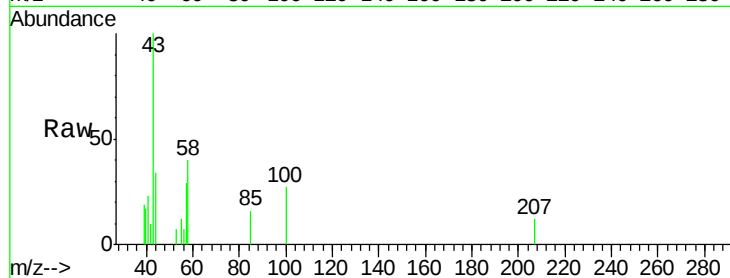
ClientSampled :

Tot Ion: 43 Resp: 1951

Ion Ratio Lower Upper

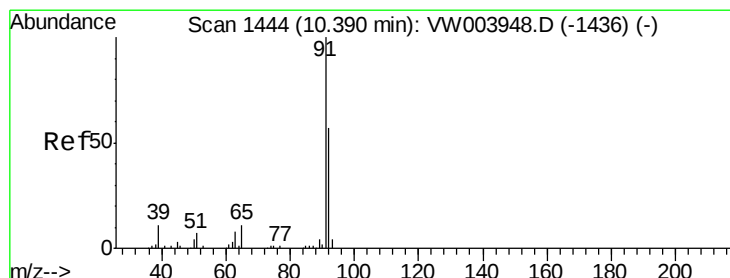
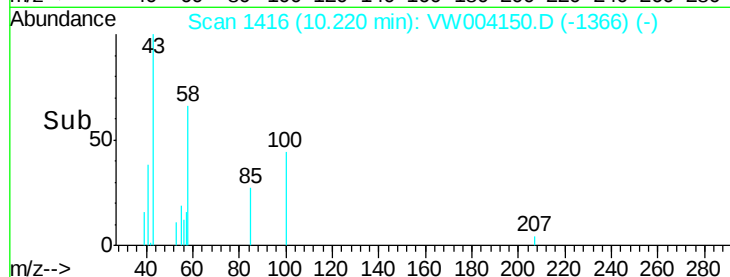
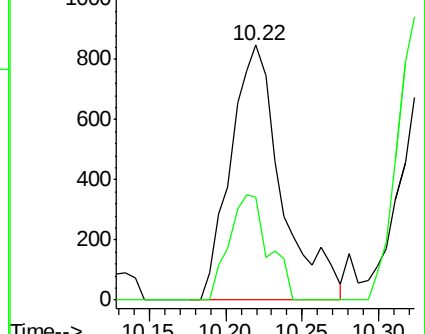
43 100

58 32.4 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 1.230 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. 0.00 min

Lab File: VW004150.D

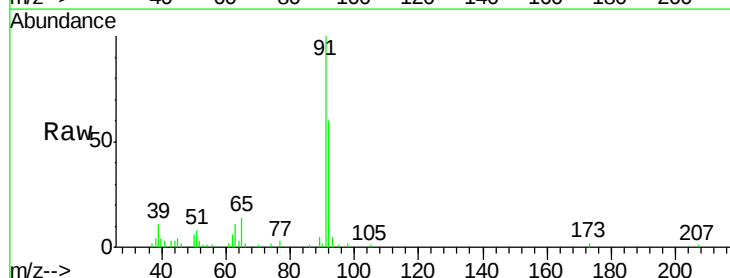
Acq: 23 Jul 2018 20:49

Tgt Ion: 92 Resp: 5926

Ion Ratio Lower Upper

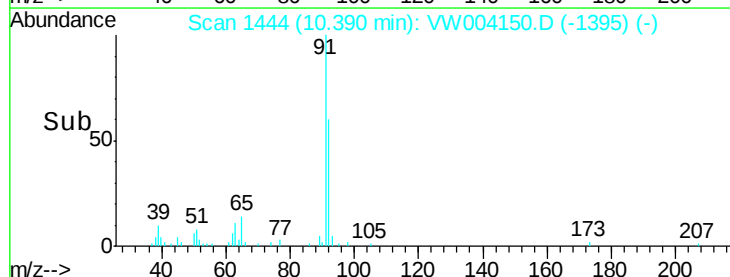
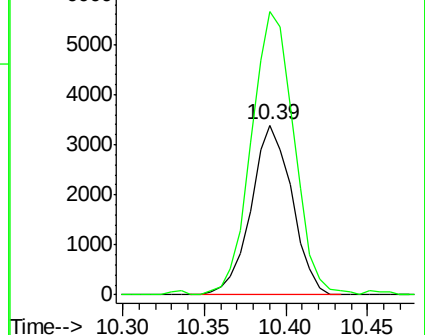
92 100

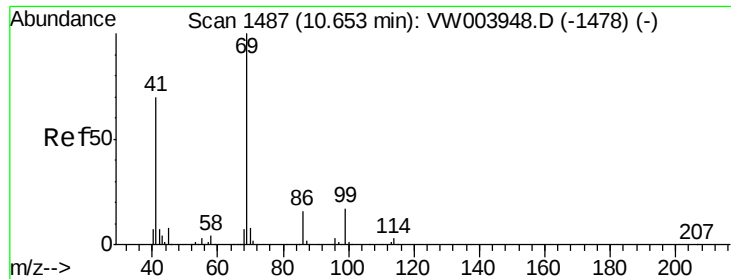
91 173.5 139.6 209.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#56

Ethyl methacrylate

Concen: 3.088 ug/l

RT: 10.65 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

Instrument :

MSVOA_W

ClientSampled :

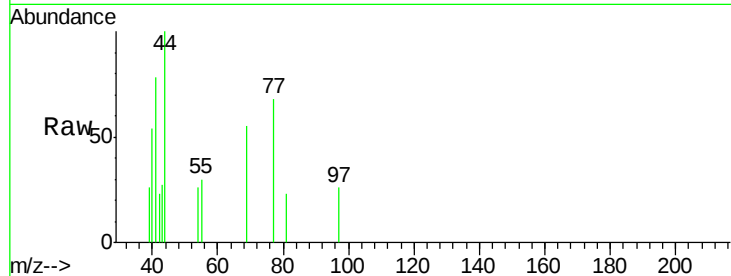
Tot Ion: 69 Resp: 313

Ion Ratio Lower Upper

69 100

41 90.7 56.5 84.7#

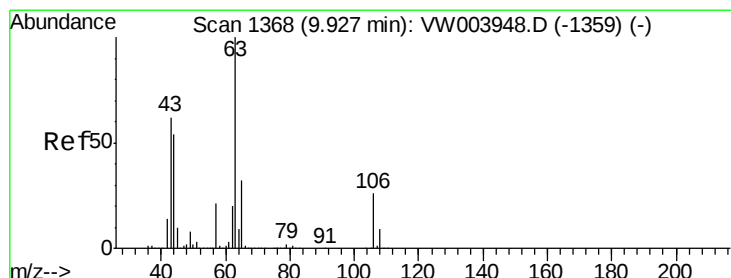
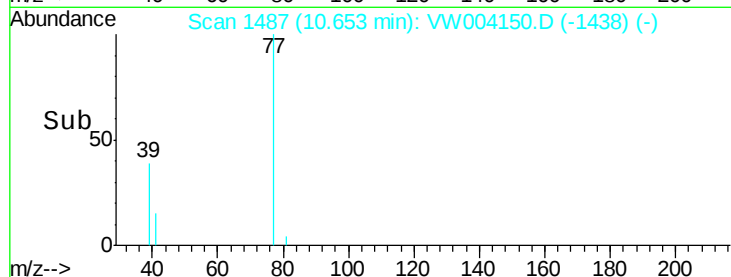
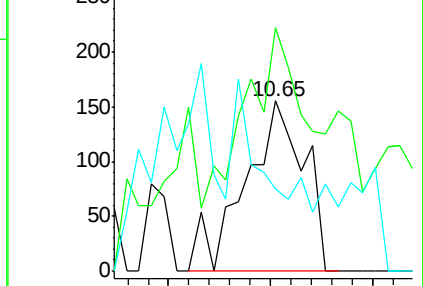
39 22.7 30.2 45.4#



Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW



#58

2-Chloroethyl Vinyl ether

Concen: 1.203 ug/l

RT: 9.93 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VW004150.D

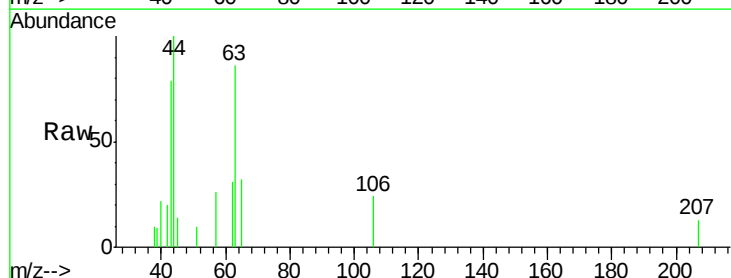
Acq: 23 Jul 2018 20:49

Tgt Ion: 63 Resp: 1035

Ion Ratio Lower Upper

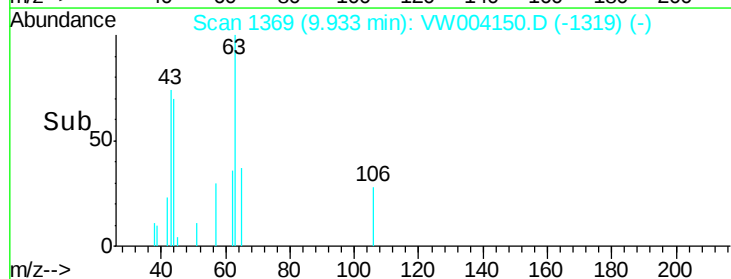
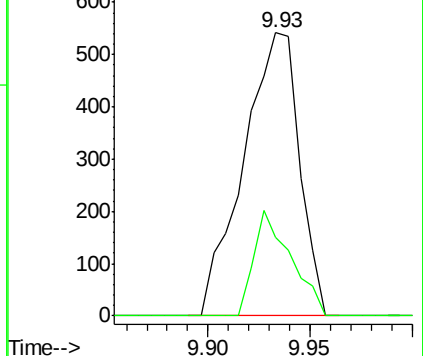
63 100

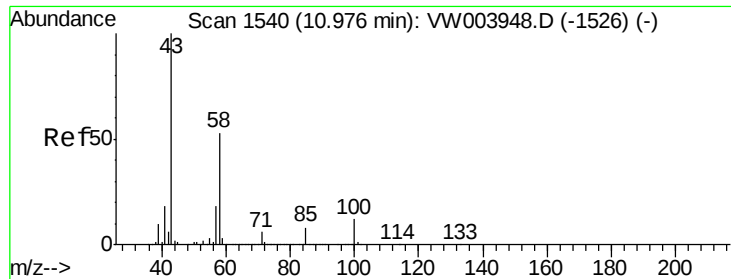
106 24.7 21.2 31.8



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V

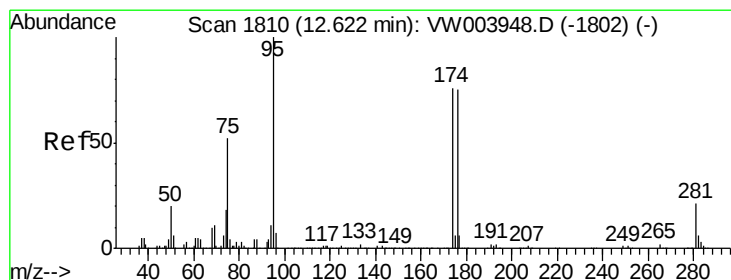
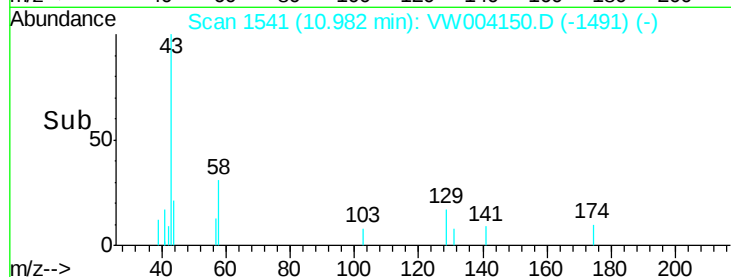
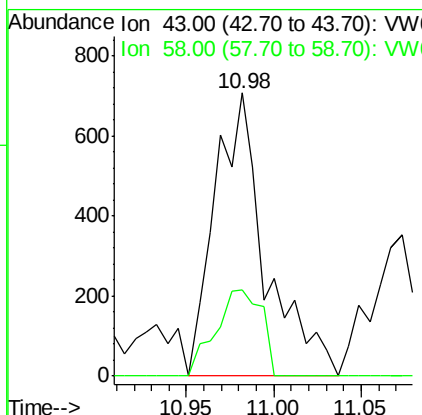
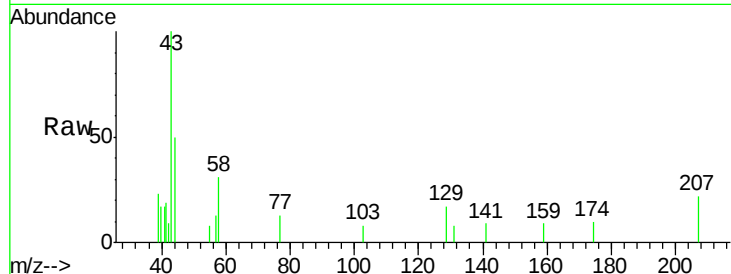




#59
2-Hexanone
Concen: 1.508 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. 0.01 min
Lab File: VW004150.D
Acq: 23 Jul 2018 20:49

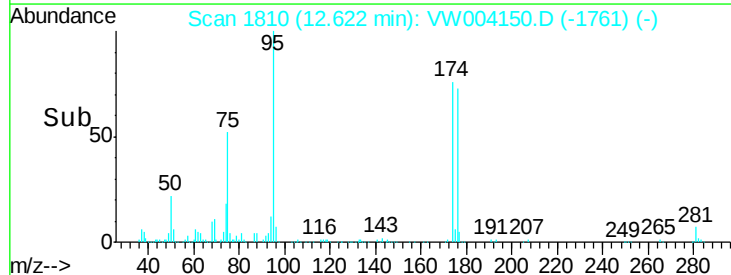
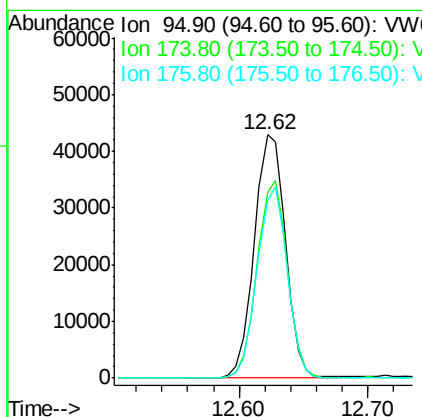
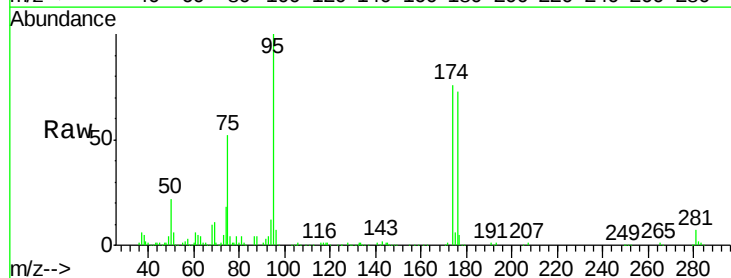
Instrument :
MSVOA_W
ClientSampleId :

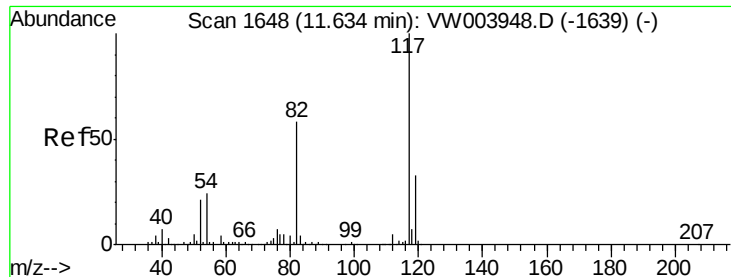
Tot Ion: 43 Resp: 1434
Ion Ratio Lower Upper
43 100
58 27.4 26.0 78.0



#62
4-Bromofluorobenzene
Concen: 29.233 ug/l
RT: 12.62 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VW004150.D
Acq: 23 Jul 2018 20:49

Tgt Ion: 95 Resp: 71610
Ion Ratio Lower Upper
95 100
174 78.9 0.0 160.2
176 76.2 0.0 155.8

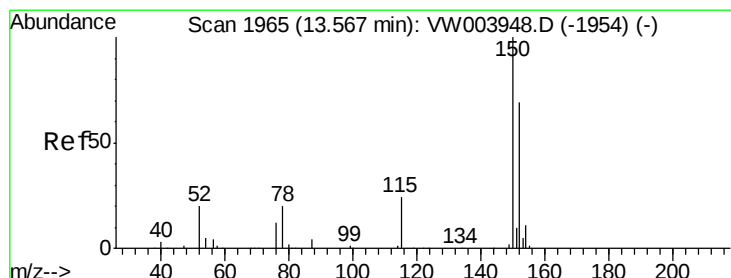
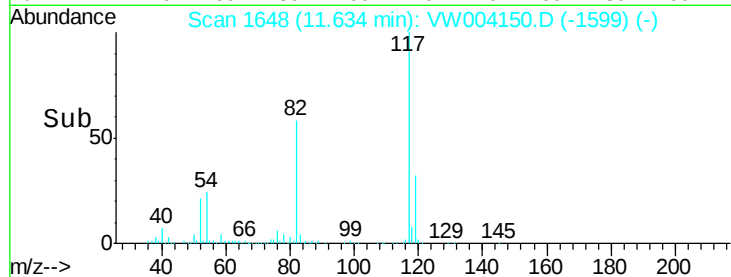
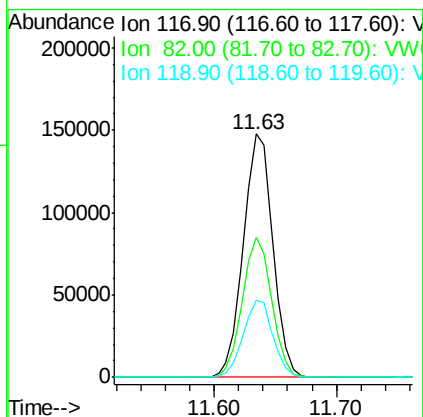
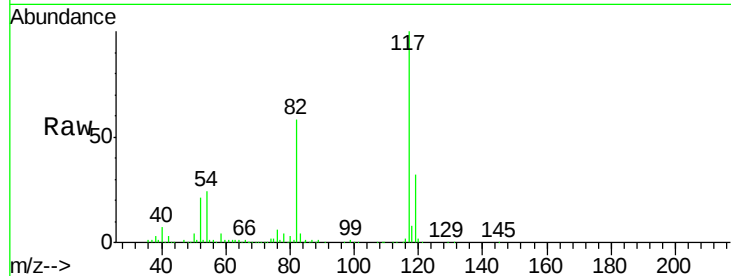




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. 0.00 min
Lab File: VW004150.D
Acq: 23 Jul 2018 20:49

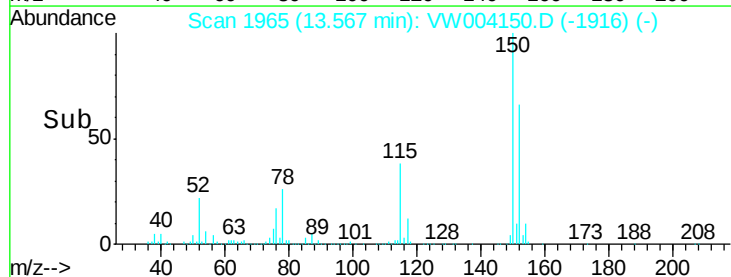
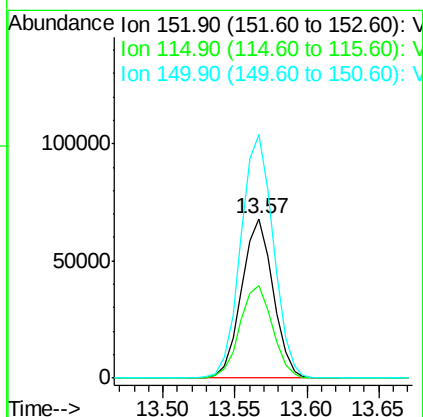
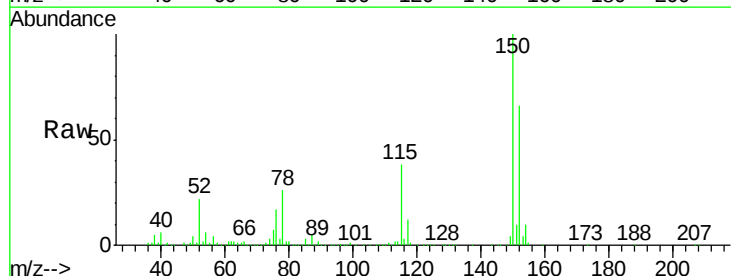
Instrument :
MSVOA_W
ClientSampleId :

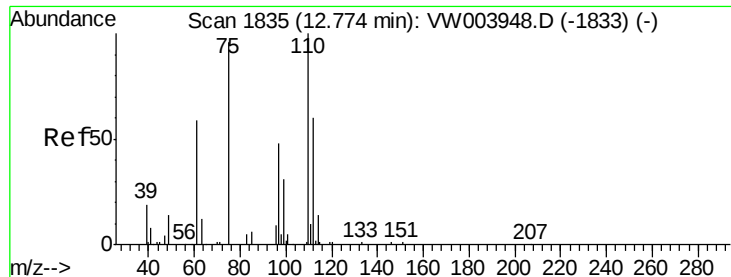
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.6	46.5	69.7
119	31.7	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VW004150.D
Acq: 23 Jul 2018 20:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.4	29.2	87.6
150	157.5	0.0	345.2





#76

1,2,3-Trichloropropane

Concen: 35.656 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

Instrument :

MSVOA_W

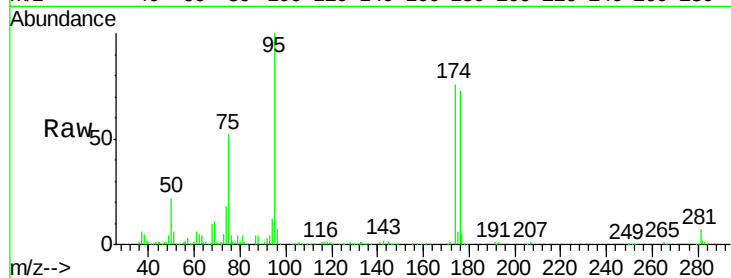
ClientSampleId :

Tot Ion: 75 Resp: 36587

Ion Ratio Lower Upper

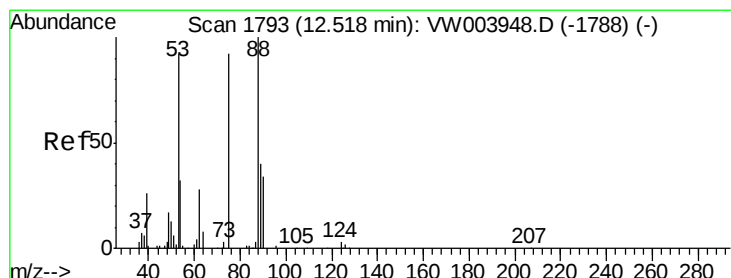
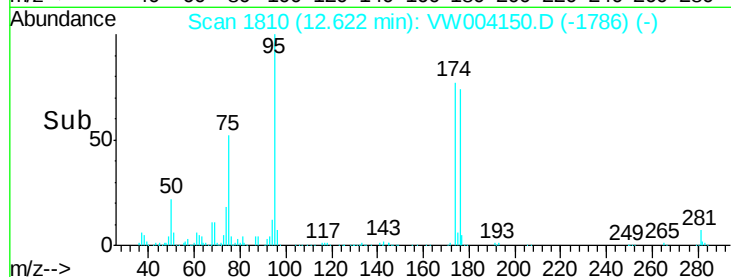
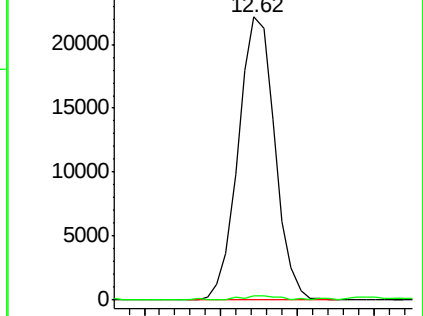
75 100

77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 78.871 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW004150.D

Acq: 23 Jul 2018 20:49

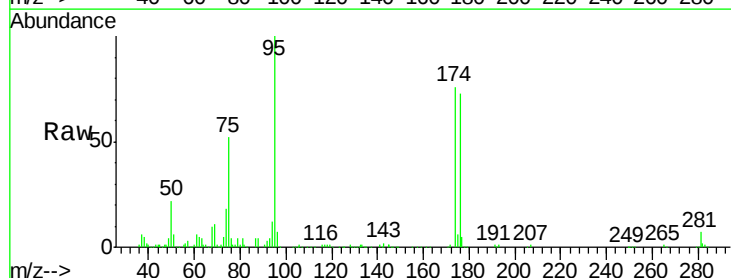
Tgt Ion: 75 Resp: 36587

Ion Ratio Lower Upper

75 100

53 0.7 77.6 116.4#

89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

