

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW073018\
 Data File : VW004330.D
 Acq On : 29 Jul 2018 22:33
 Operator : SY/AP
 Sample : J4152-05
 Misc : 7.72G/5ML/MSVOA W/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 30 04:35:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W073018S.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 30 02:37:04 2018
 Response via : Initial Calibration

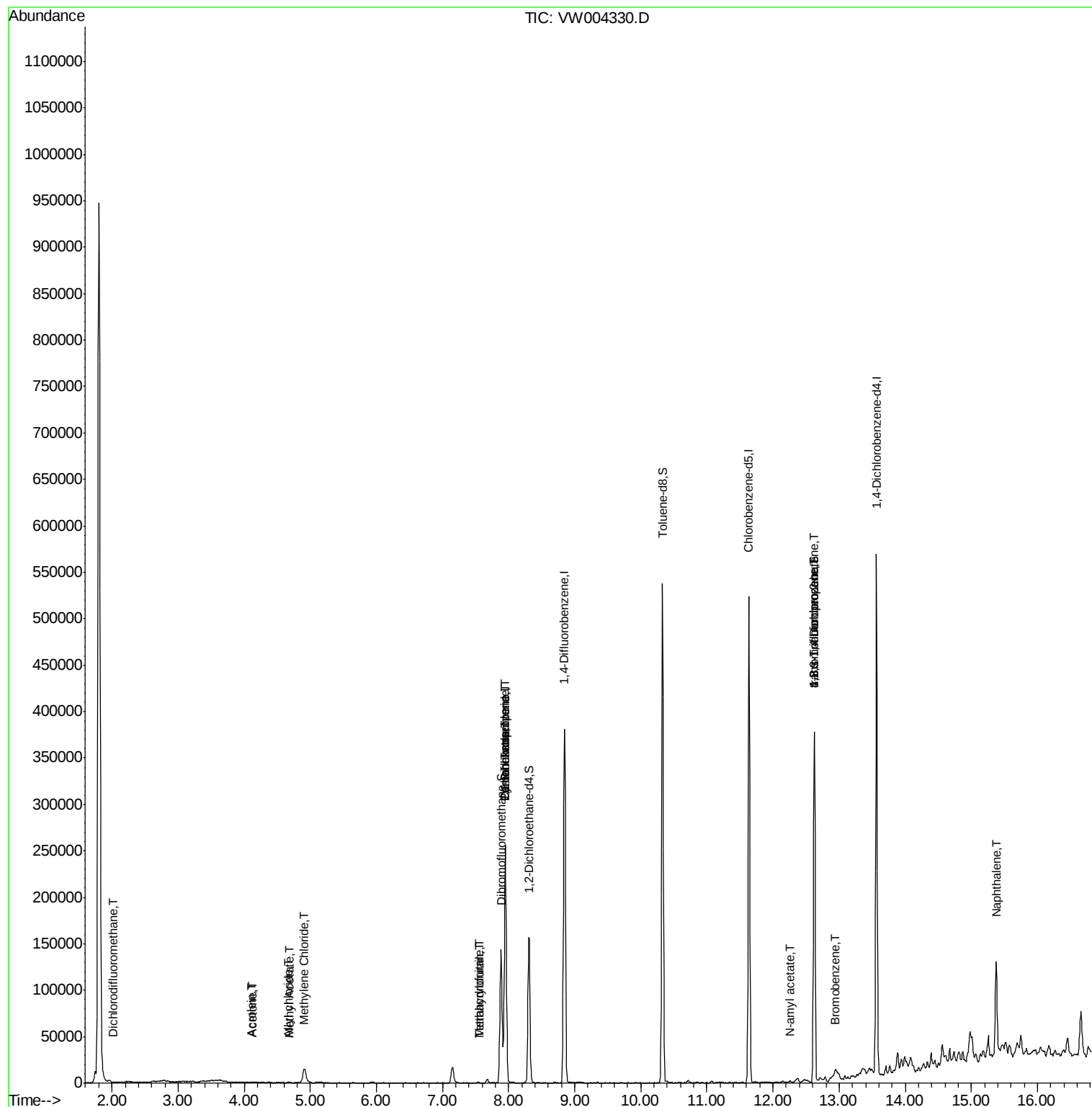
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	190621	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	322899	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	295151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	147076	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	125422	65.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	130.46%	
35) Dibromofluoromethane	7.88	113	103013	50.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.96%	
50) Toluene-d8	10.33	98	360497	44.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.40%	
62) 4-Bromofluorobenzene	12.63	95	127031	44.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.48%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.01	85	22	2.836	ug/l #	43
3) Chloromethane	2.22	50	39	Below Cal	#	44
5) Bromomethane	2.79	94	44	Below Cal	#	4
6) Chloroethane	2.92	64	41	Below Cal	#	45
7) Trichlorofluoromethane	3.25	101	27	Below Cal	#	18
8) Diethyl Ether	3.67	74	71	Below Cal	#	1
11) Tert butyl alcohol	5.17	59	282	Below Cal	#	93
13) Acrolein	4.11	56	20	1.835	ug/l #	12
14) Allyl chloride	4.67	41	53	1.527	ug/l #	25
16) Acetone	4.12	43	1185	15.881	ug/l	89
18) Methyl Acetate	4.67	43	1058	1.840	ug/l #	58
20) Methylene Chloride	4.90	84	13444	5.939	ug/l	94
21) trans-1,2-Dichloroethene	5.44	96	26	Below Cal	#	1
29) Tetrahydrofuran	7.55	42	365	3.640	ug/l #	40
31) Cyclohexane	7.95	56	4080	1.243	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	14696	4.549	ug/l #	49
38) Carbon Tetrachloride	7.95	117	18460	5.787	ug/l #	14
41) Methacrylonitrile	7.56	41	57	2.160	ug/l #	21
74) N-amyl acetate	12.26	43	760	2.174	ug/l #	65
76) 1,2,3-Trichloropropane	12.62	75	62533	46.587	ug/l #	100
77) Bromobenzene	12.94	156	4910	1.993	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	62533	108.401	ug/l #	11
95) Naphthalene	15.38	128	89731	16.825	ug/l	99

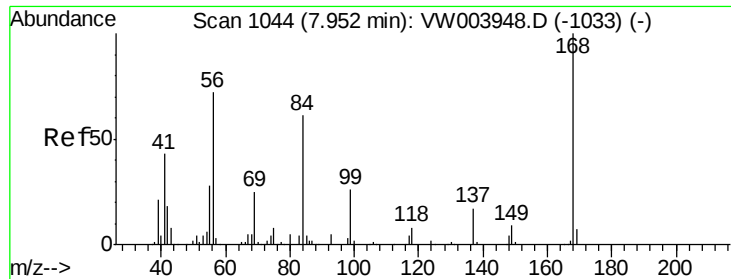
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 30 02:37:04 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW004330.D

Acq: 29 Jul 2018 22:33

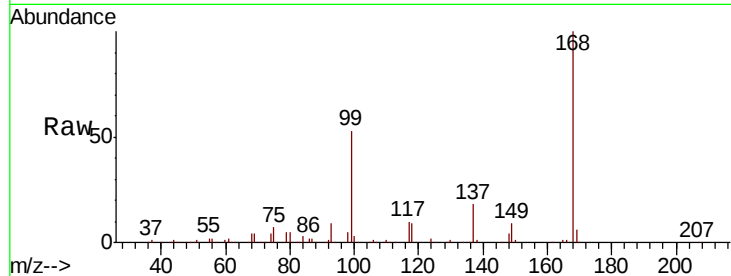
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 190621

Ion Ratio Lower Upper

168 100

99 53.4 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

80000

60000

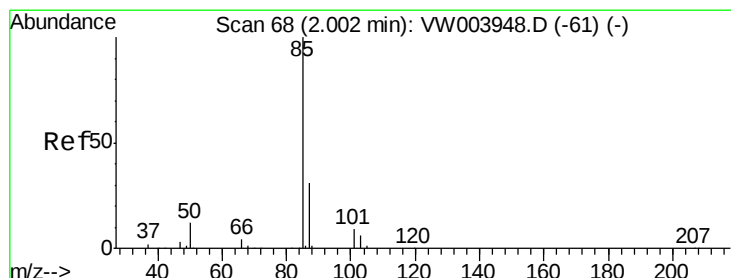
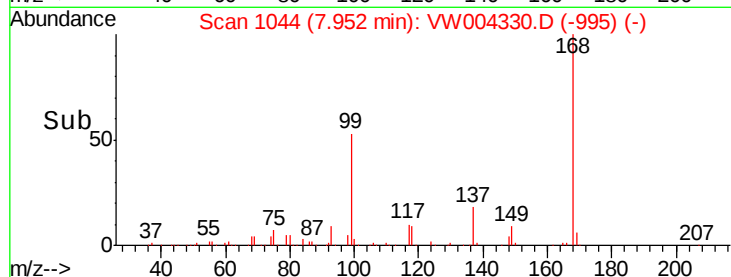
40000

20000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#2

Dichlorodifluoromethane

Concen: 2.836 ug/l

RT: 2.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VW004330.D

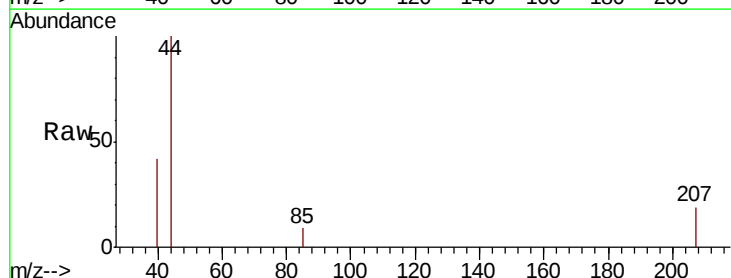
Acq: 29 Jul 2018 22:33

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

60

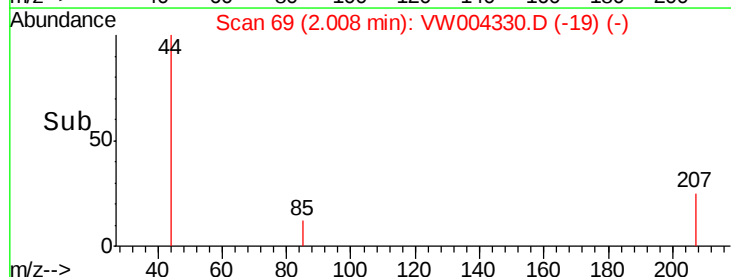
40

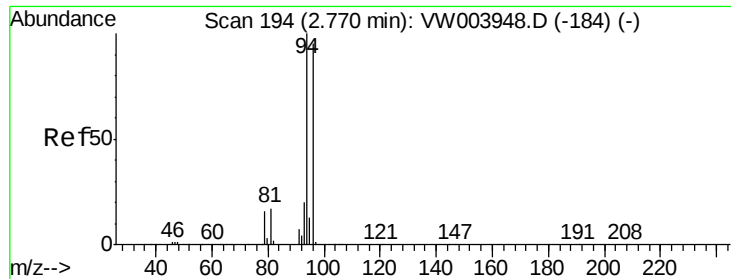
20

0

1.99 2.00 2.01 2.02

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 197

Delta R.T. 0.01 min

Lab File: VW004330.D

Acq: 29 Jul 2018 22:33

Instrument :

MSVOA_W

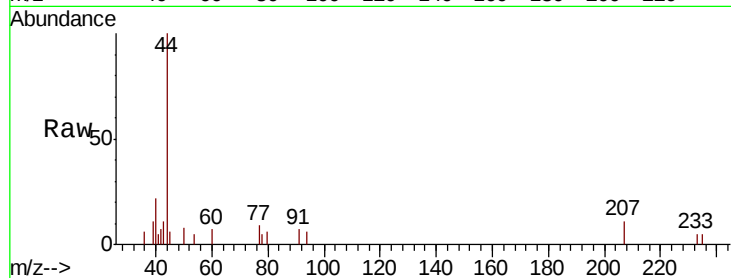
ClientSampled :

Tot Ion: 94 Resp: 44

Ion Ratio Lower Upper

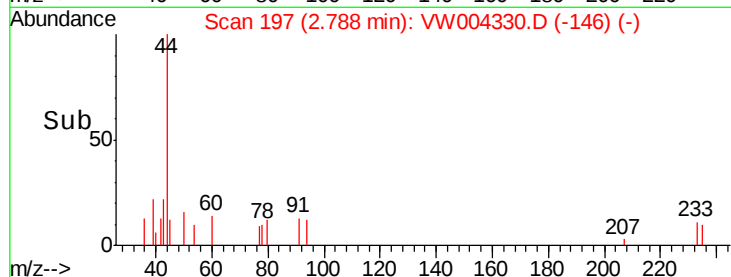
94 100

96 0.0 73.3 109.9#



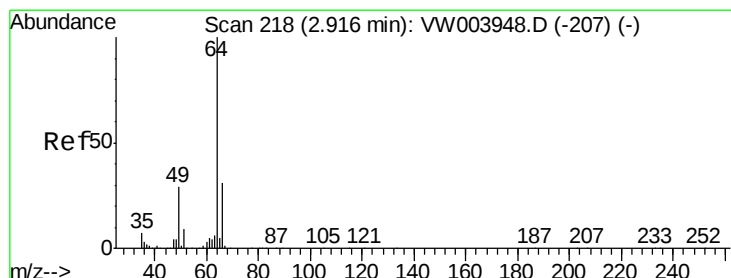
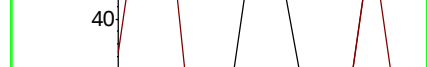
Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: Below Cal

RT: 2.92 min Scan# 219

Delta R.T. 0.00 min

Lab File: VW004330.D

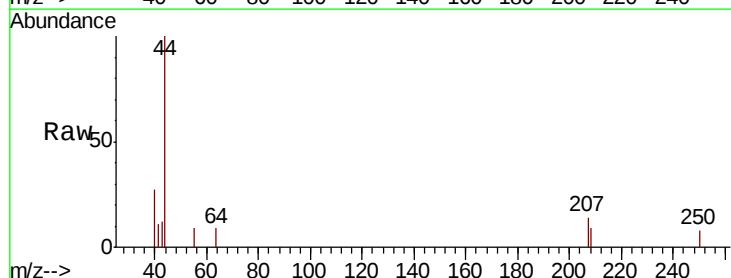
Acq: 29 Jul 2018 22:33

Tgt Ion: 64 Resp: 41

Ion Ratio Lower Upper

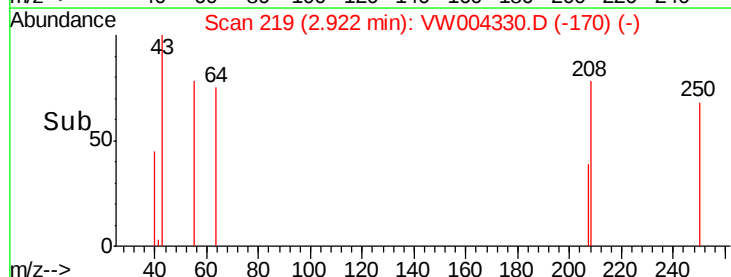
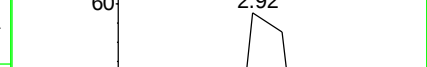
64 100

66 0.0 23.7 35.5#



Abundance Ion 63.90 (63.60 to 64.60): VW

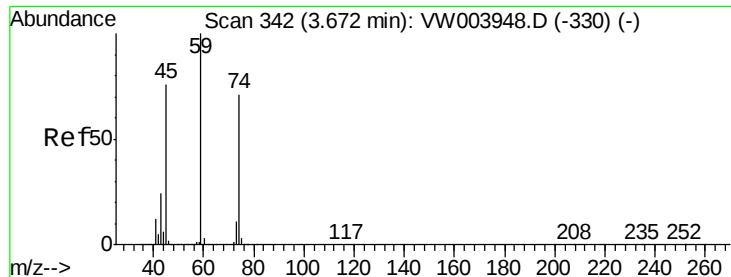
Ion 65.90 (65.60 to 66.60): VW



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#8

Diethyl Ether

Concen: Below Cal

RT: 3.67 min Scan# 341

Delta R.T. -0.01 min

Lab File: VW004330.D

Acq: 29 Jul 2018 22:33

Instrument :

MSVOA_W

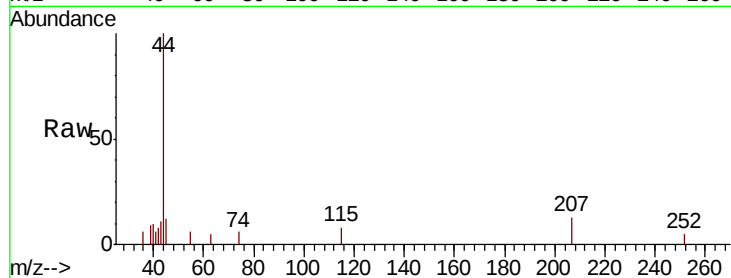
ClientSampled :

Tot Ion: 74 Resp: 71

Ion Ratio Lower Upper

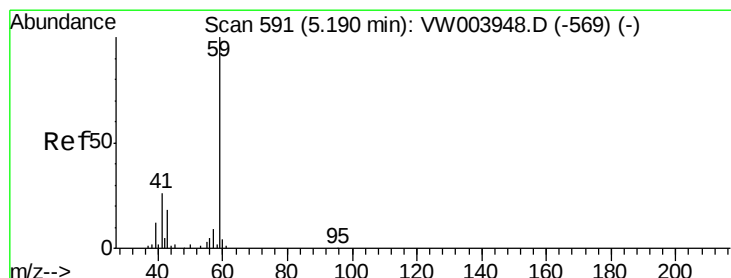
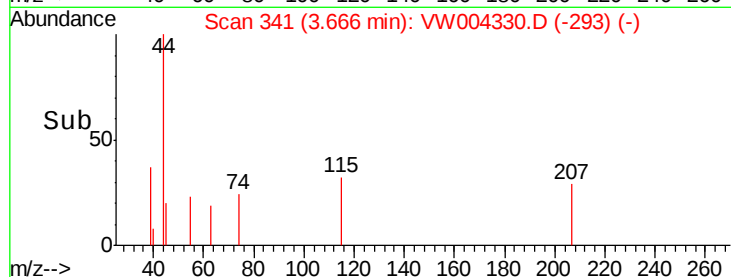
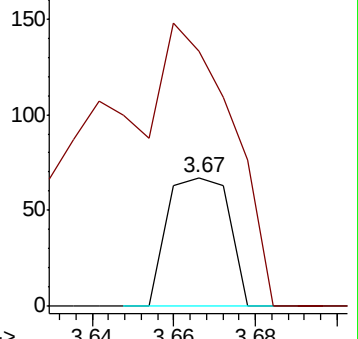
74 100

45 436.6 49.4 148.0#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.17 min Scan# 588

Delta R.T. 0.00 min

Lab File: VW004330.D

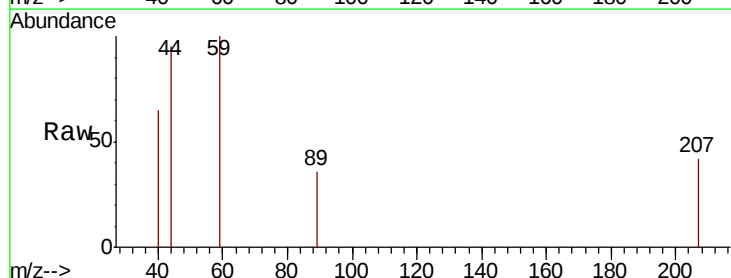
Acq: 29 Jul 2018 22:33

Tgt Ion: 59 Resp: 282

Ion Ratio Lower Upper

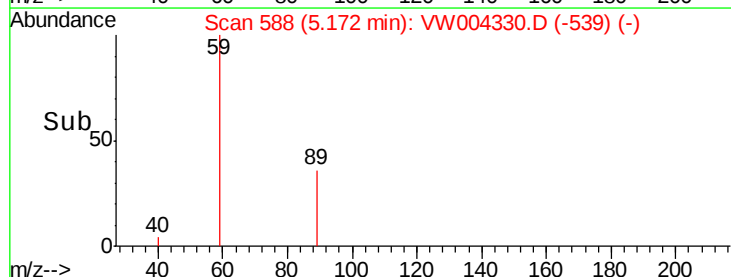
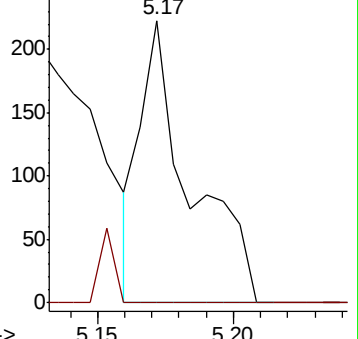
59 100

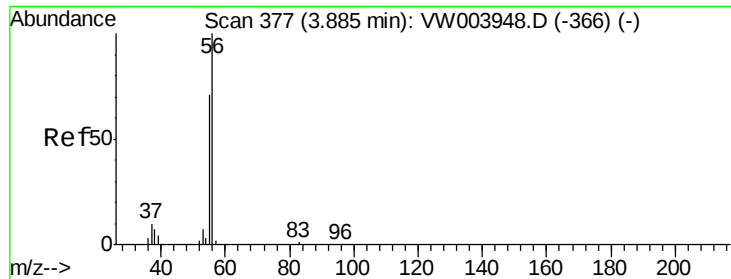
57 7.8 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.835 ug/l

RT: 4.11 min Scan# 414

Delta R.T. 0.23 min

Lab File: VW004330.D

Acq: 29 Jul 2018 22:33

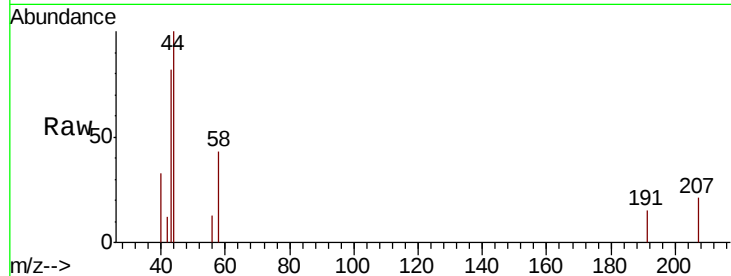
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 56 Resp: 20

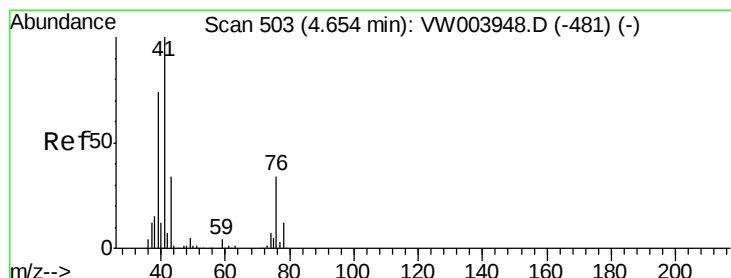
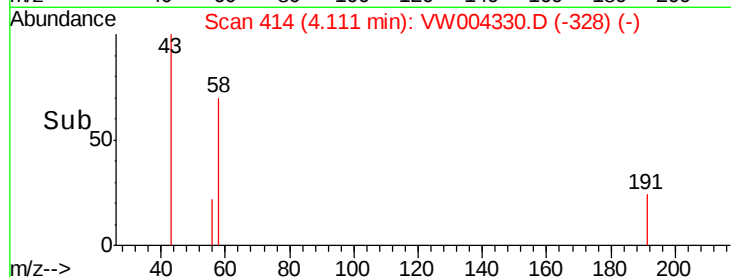
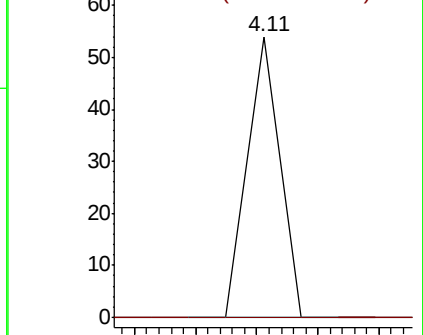
Ion Ratio Lower Upper

56 100

55 0.0 59.4 89.2#



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 1.527 ug/l

RT: 4.67 min Scan# 505

Delta R.T. 0.00 min

Lab File: VW004330.D

Acq: 29 Jul 2018 22:33

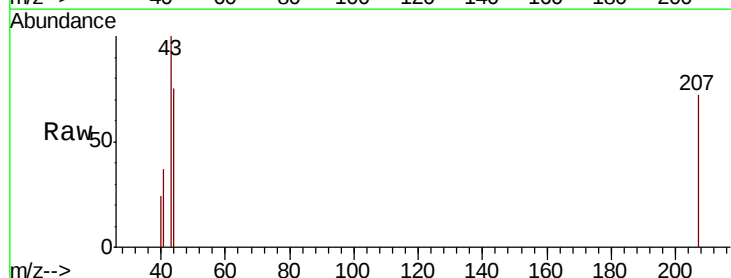
Tgt Ion: 41 Resp: 53

Ion Ratio Lower Upper

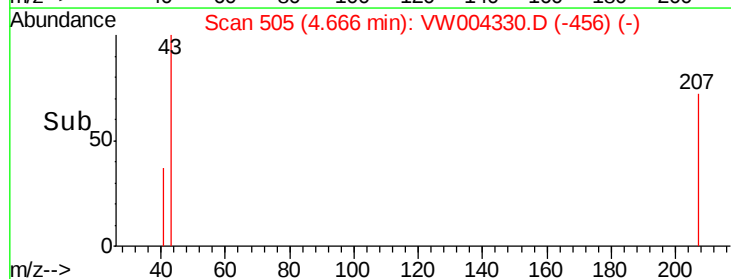
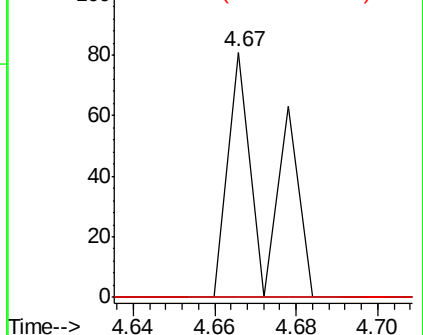
41 100

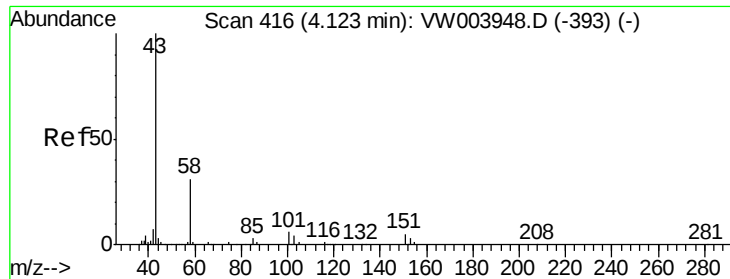
39 0.0 52.3 78.5#

76 0.0 27.3 40.9#



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 75.90 (75.60 to 76.60): VW





#16

Acetone

Concen: 15.881 ug/l

RT: 4.12 min Scan# 416

Delta R.T. 0.01 min

Lab File: VW004330.D

Acq: 29 Jul 2018 22:33

Instrument :

MSVOA_W

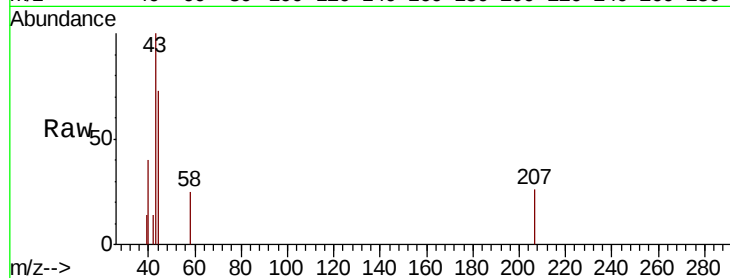
ClientSampled :

Tot Ion: 43 Resp: 1185

Ion Ratio Lower Upper

43 100

58 24.9 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

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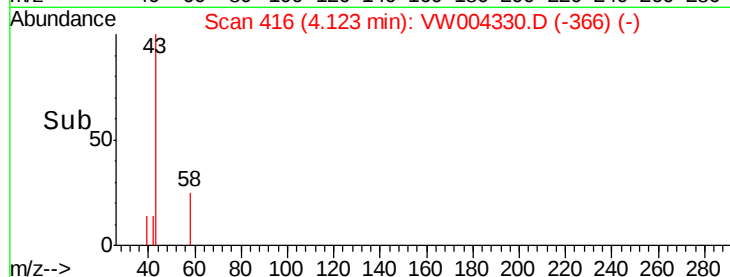
4.12

4.12

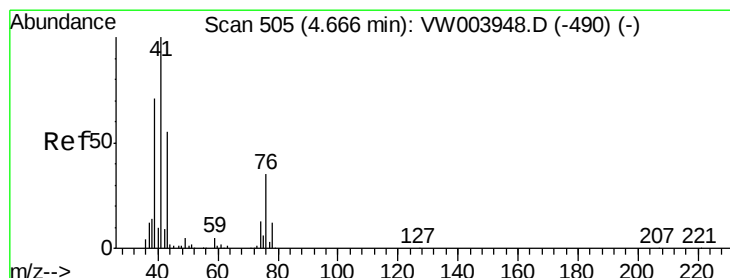
4.12

4.12

4.12



Time-->



#18

Methyl Acetate

Concen: 1.840 ug/l

RT: 4.67 min Scan# 506

Delta R.T. -0.00 min

Lab File: VW004330.D

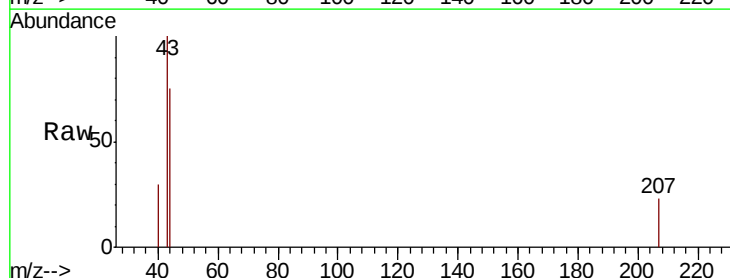
Acq: 29 Jul 2018 22:33

Tgt Ion: 43 Resp: 1058

Ion Ratio Lower Upper

43 100

74 2.1 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

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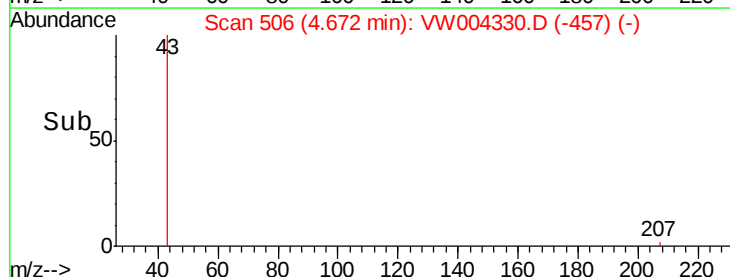
4.67

4.67

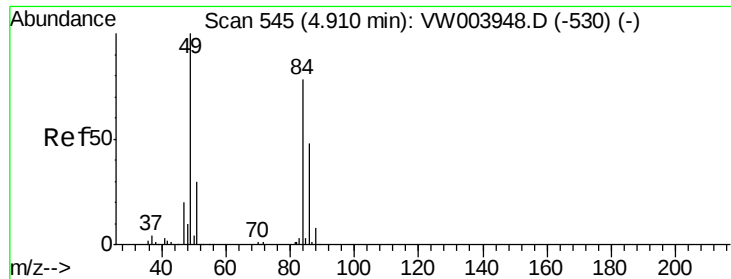
4.67

4.67

4.67



Time-->



#20

Methylene Chloride

Concen: 5.939 ug/l

RT: 4.90 min Scan# 544

Delta R.T. -0.01 min

Lab File: VW004330.D

Acq: 29 Jul 2018 22:33

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 84 Resp: 13444

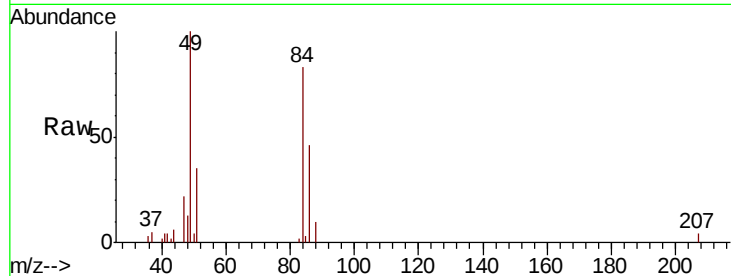
Ion	Ratio	Lower	Upper
84	100		
49	120.8	100.5	150.7
51	42.4	30.9	46.3
86	55.1	50.2	75.4

84 100

49 120.8 100.5 150.7

51 42.4 30.9 46.3

86 55.1 50.2 75.4



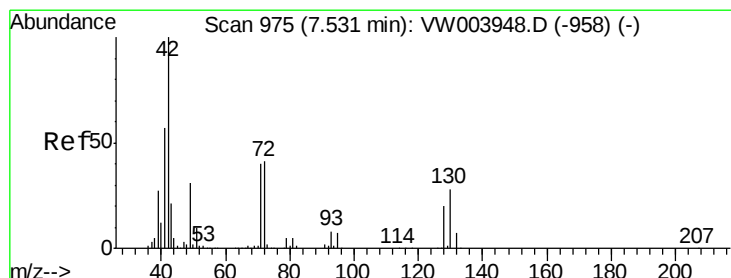
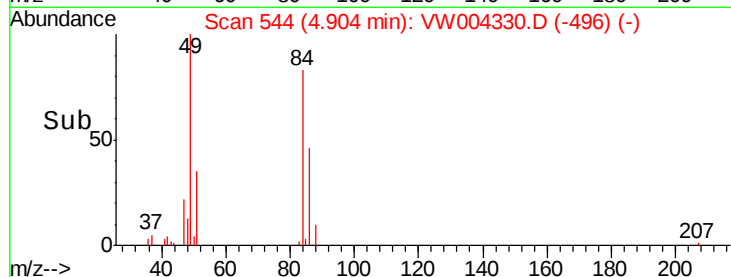
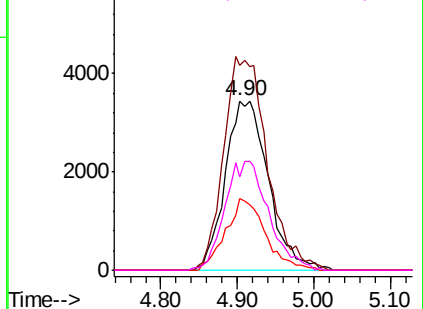
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#29

Tetrahydrofuran

Concen: 3.640 ug/l

RT: 7.55 min Scan# 978

Delta R.T. 0.02 min

Lab File: VW004330.D

Acq: 29 Jul 2018 22:33

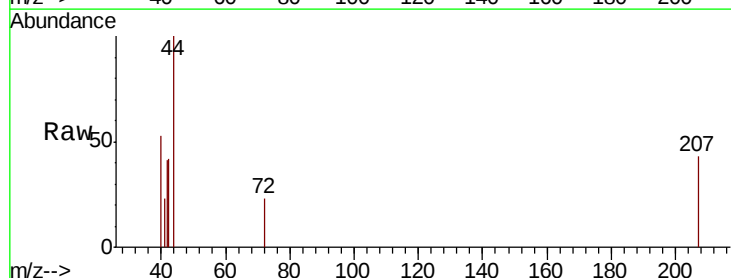
Tgt Ion: 42 Resp: 365

Ion	Ratio	Lower	Upper
42	100		
72	5.2	32.6	48.8#
71	0.0	31.3	46.9#

42 100

72 5.2 32.6 48.8#

71 0.0 31.3 46.9#

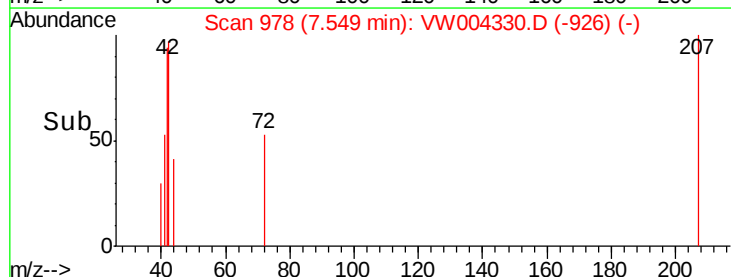
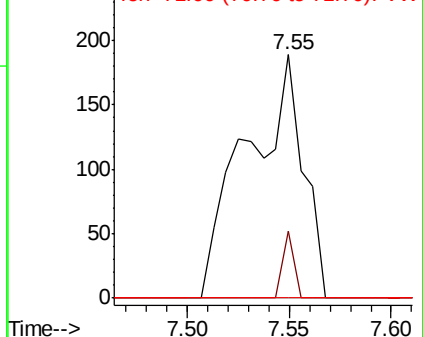


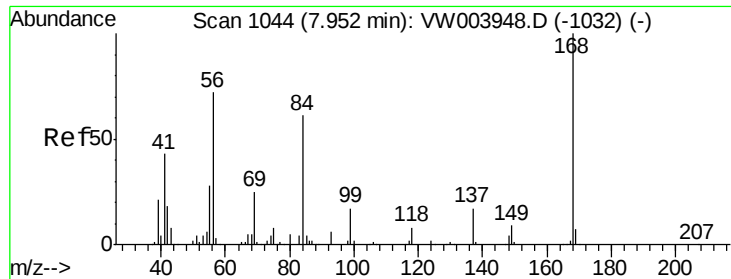
Abundance

Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

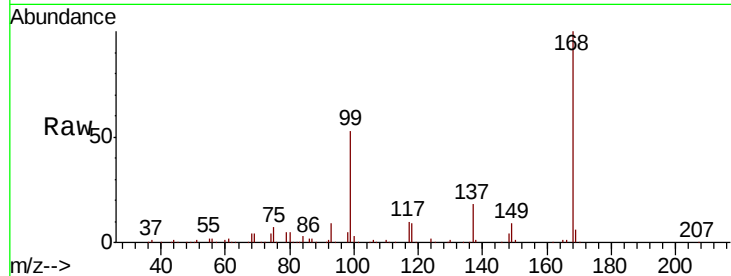




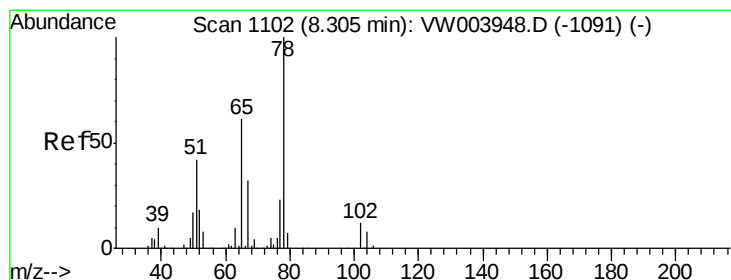
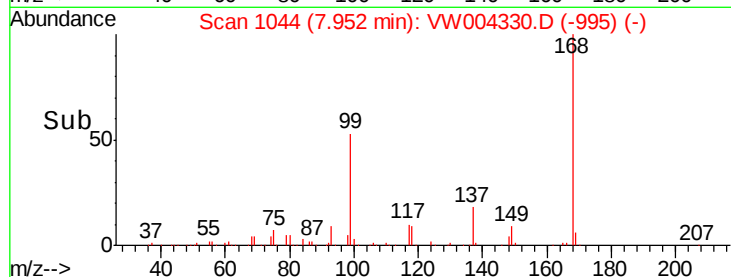
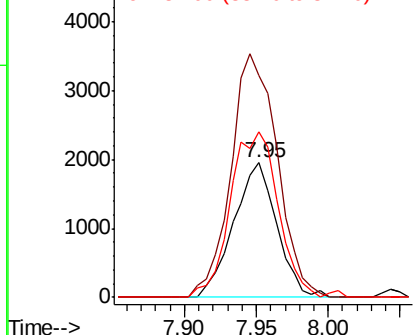
#31
Cyclohexane
Concen: 1.243 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 56 Resp: 4080
Ion Ratio Lower Upper
56 100
69 165.7 26.3 39.5#
84 122.9 66.2 99.4#

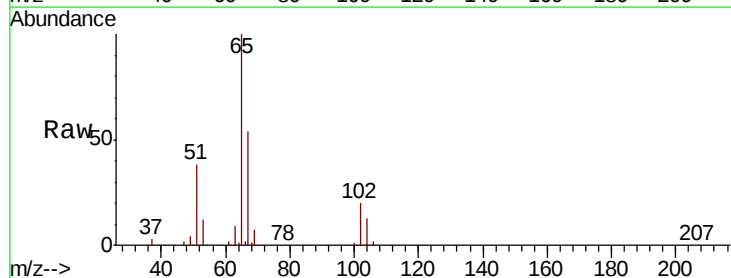


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

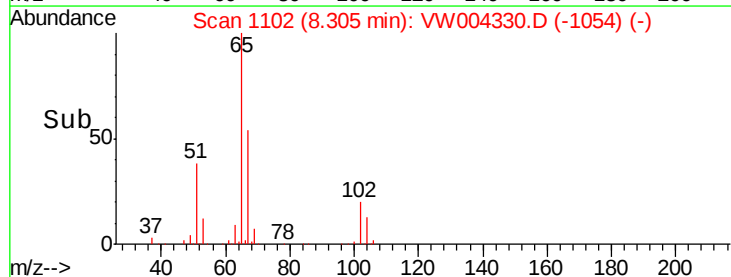
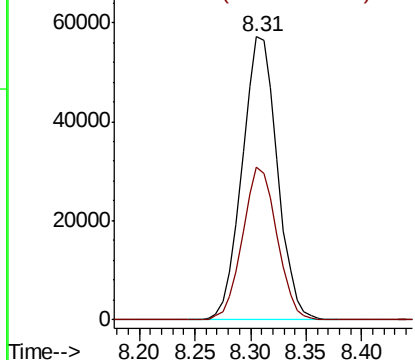


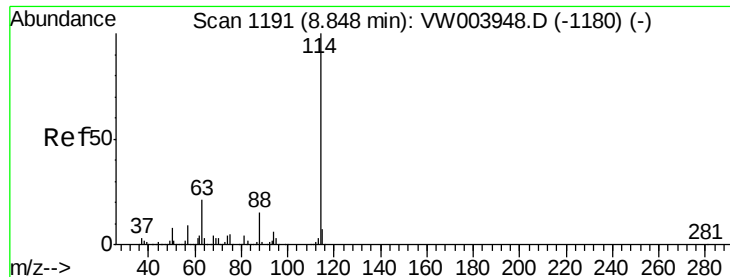
#33
1,2-Dichloroethane-d4
Concen: 65.227 ug/l
RT: 8.31 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

Tgt Ion: 65 Resp: 125422
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

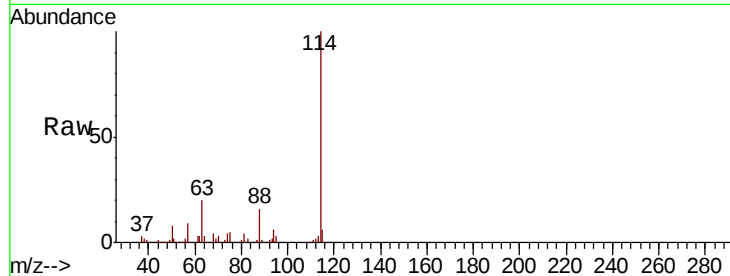




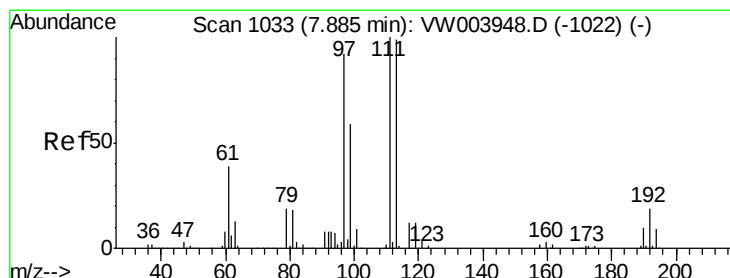
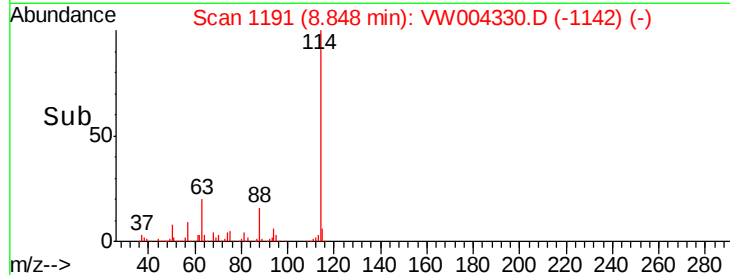
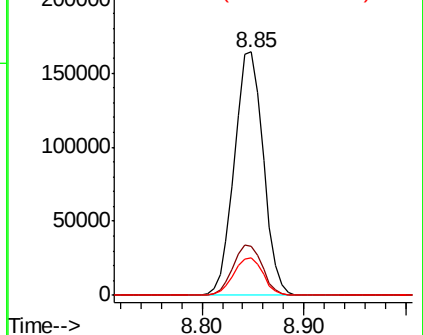
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: VW004330.D
 Acq: 29 Jul 2018 22:33

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:114 Resp: 322899
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 41.4
 88 15.6 0.0 30.6

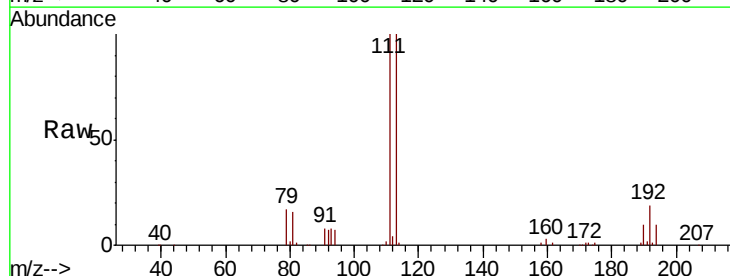


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

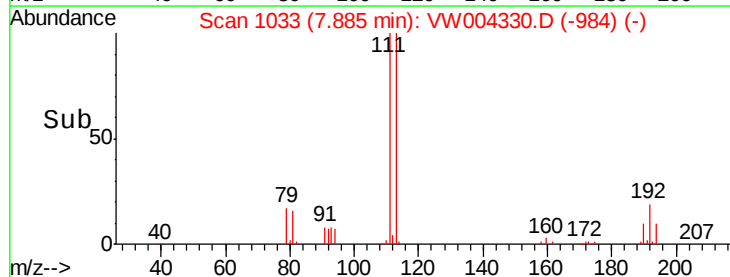
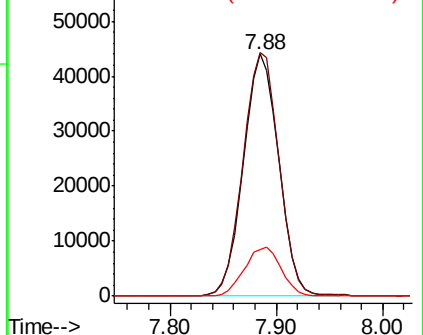


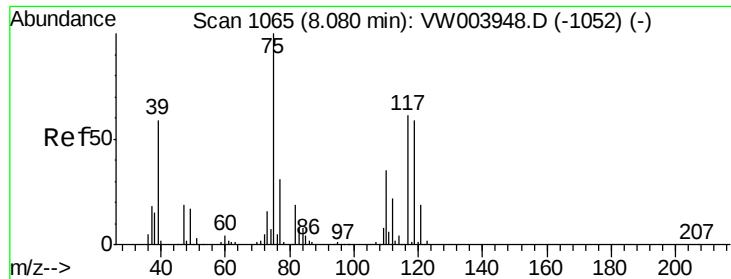
#35
 Dibromofluoromethane
 Concen: 50.482 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: VW004330.D
 Acq: 29 Jul 2018 22:33

Tgt Ion:113 Resp: 103013
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.1 123.1
 192 20.8 16.2 24.4



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

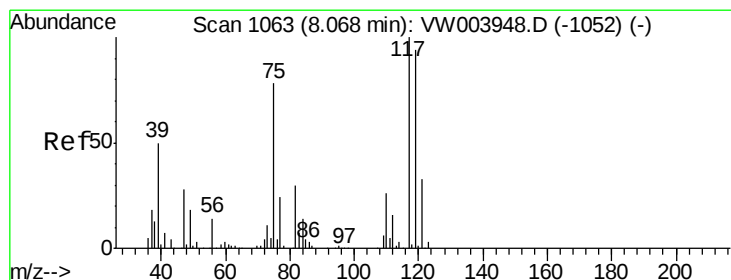
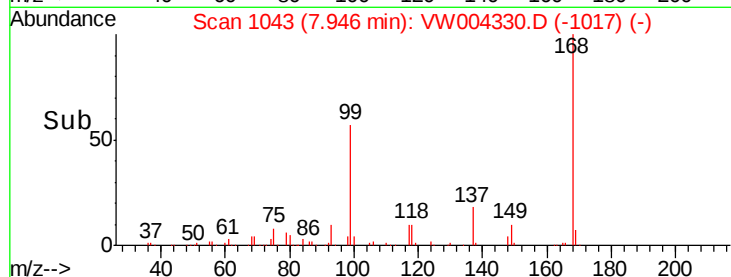
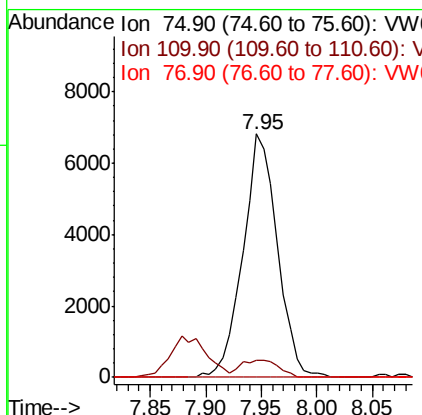
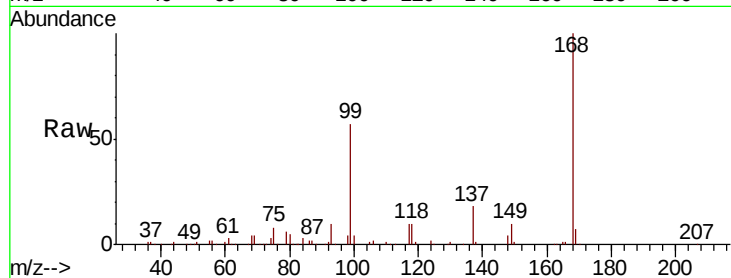




#36
 1,1-Dichloropropene
 Concen: 4.549 ug/l
 RT: 7.95 min Scan# 1043
 Delta R.T. -0.14 min
 Lab File: VW004330.D
 Acq: 29 Jul 2018 22:33

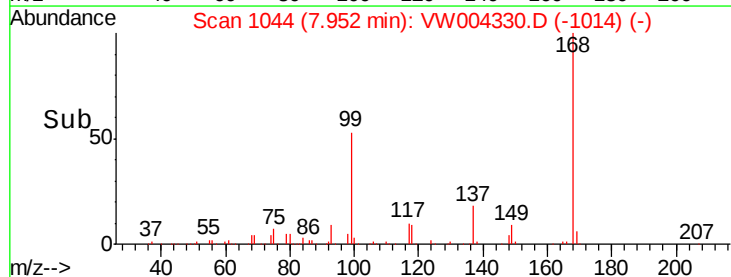
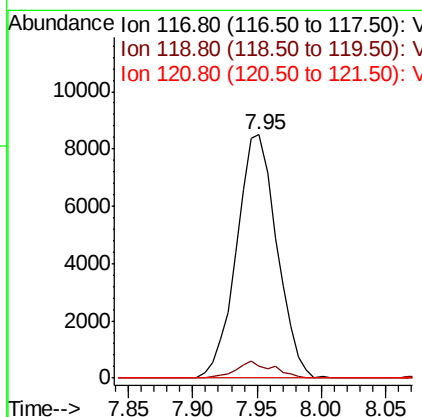
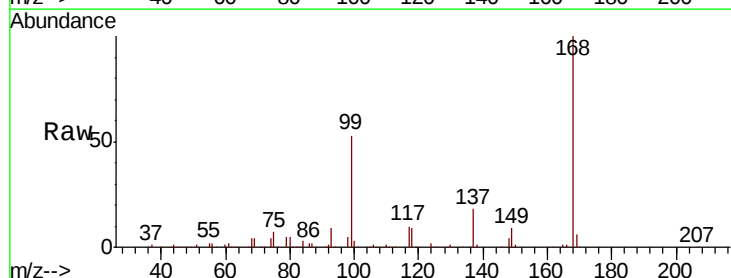
Instrument :
 MSVOA_W
 ClientSampled :

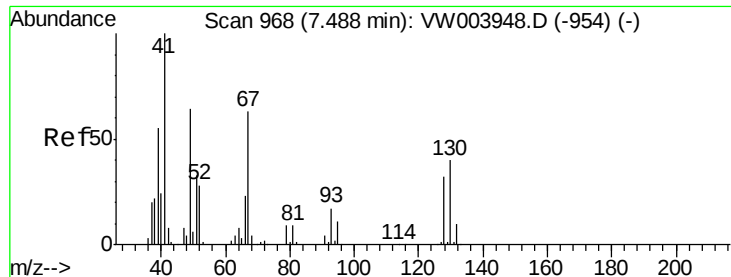
Tot Ion	75	Resp	14696
Ion Ratio	100	Lower	Upper
75	100		
110	7.8	17.3	52.0#
77	0.0	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.787 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.12 min
 Lab File: VW004330.D
 Acq: 29 Jul 2018 22:33

Tgt Ion	117	Resp	18460
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.8	79.7	119.5#
121	0.0	25.7	38.5#

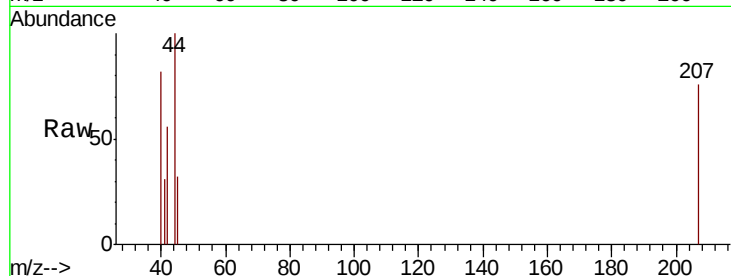




#41
Methacrylonitrile
Concen: 2.160 ug/l
RT: 7.56 min Scan# 979
Delta R.T. 0.07 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

Instrument :
MSVOA_W
ClientSampled :

Tot Ion	Ratio	Lower	Upper
41	100		
39	112.3	41.2	61.8#
67	0.0	53.4	80.0#
52	0.0	22.4	33.6#



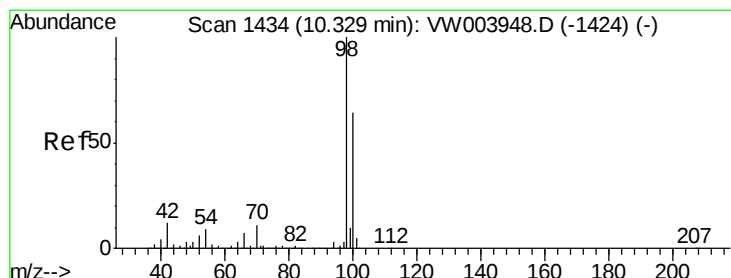
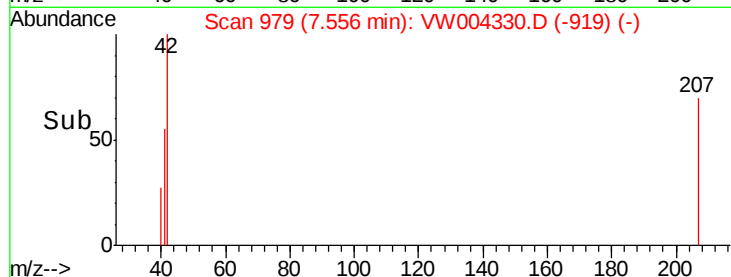
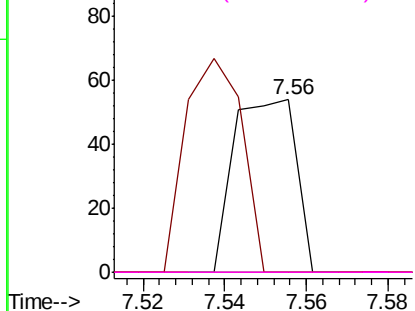
Abundance

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

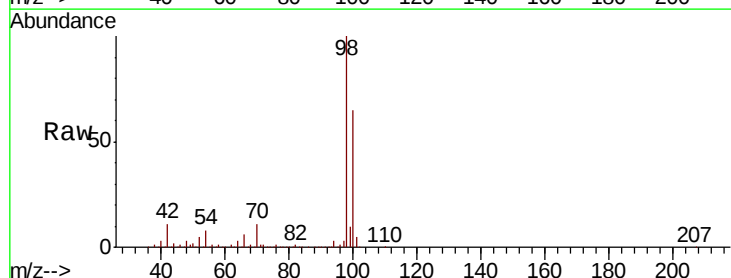
Ion 67.00 (66.70 to 67.70): VW

Ion 52.00 (51.70 to 52.70): VW



#50
Toluene-d8
Concen: 44.701 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. -0.00 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

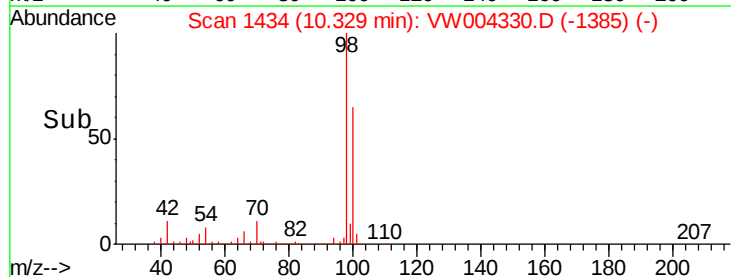
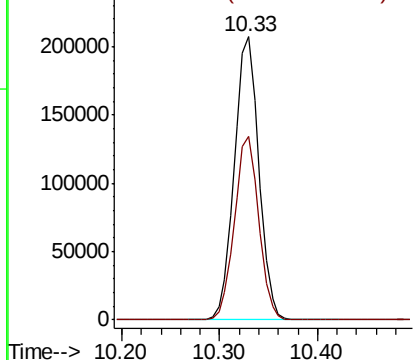
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.5	77.3

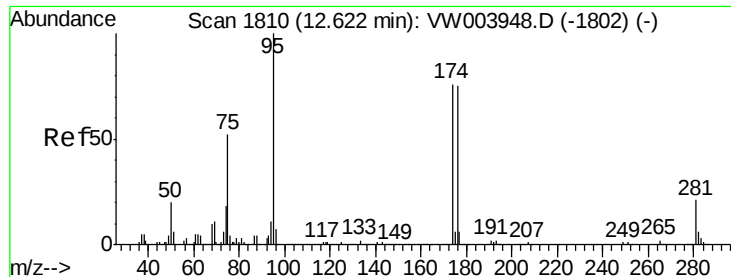


Abundance

Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

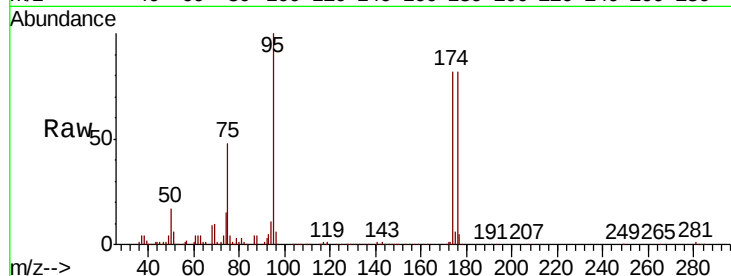




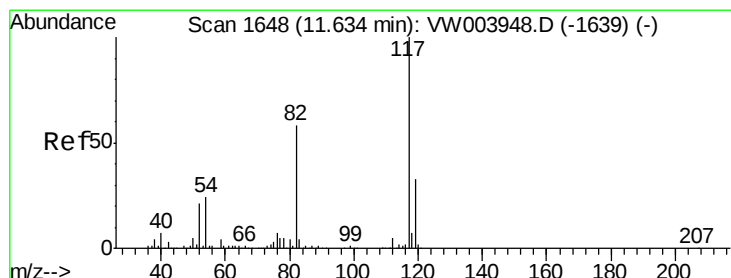
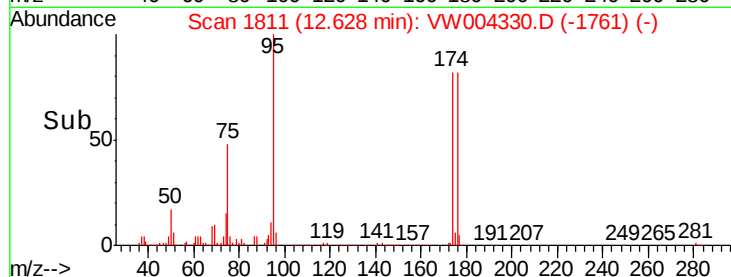
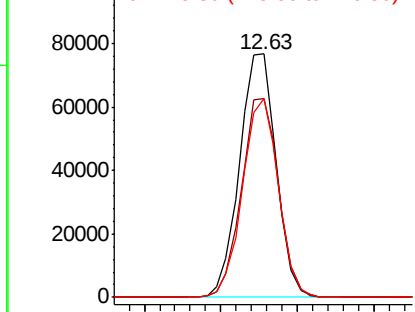
#62
4-Bromofluorobenzene
Concen: 44.736 ug/l
RT: 12.63 min Scan# 1811
Delta R.T. 0.01 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 95 Resp: 127031
Ion Ratio Lower Upper
95 100
174 83.1 0.0 167.8
176 80.0 0.0 162.4

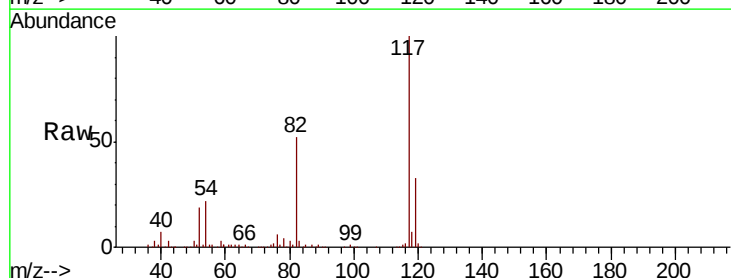


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

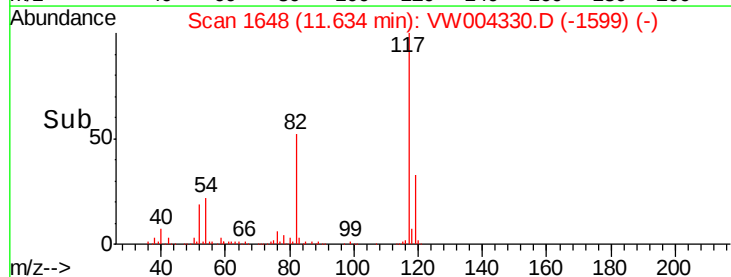
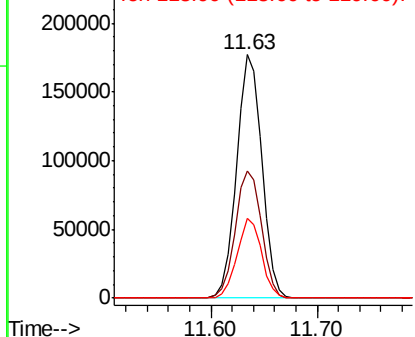


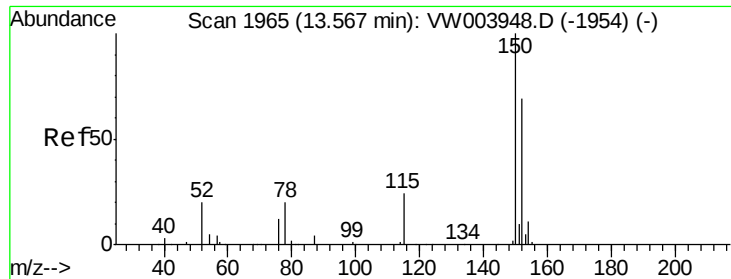
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

Tgt Ion: 117 Resp: 295151
Ion Ratio Lower Upper
117 100
82 52.1 47.9 71.9
119 32.9 27.1 40.7



Abundance Ion 116.90 (116.60 to 117.60): VW
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): VW



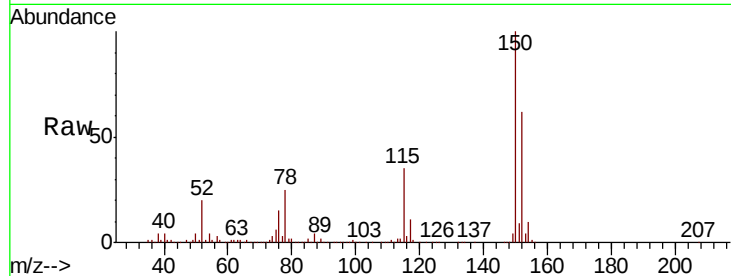


#72

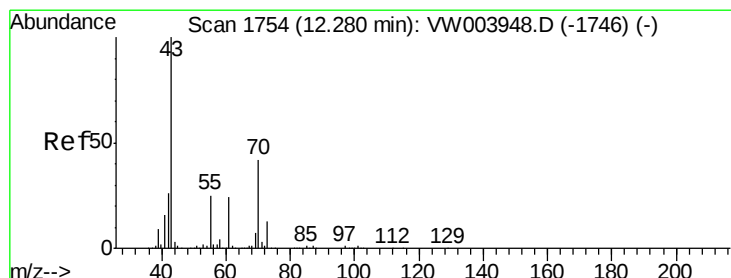
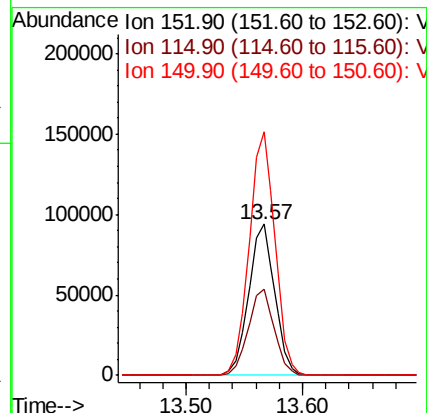
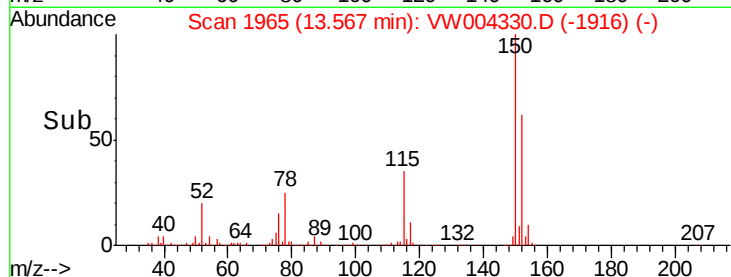
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:152 Resp: 147076
Ion Ratio Lower Upper
152 100
115 56.9 28.8 86.4
150 158.3 0.0 346.4



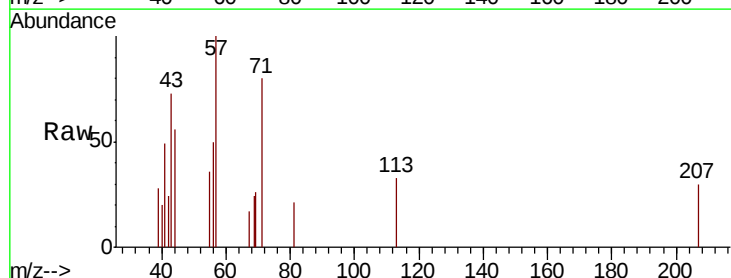
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



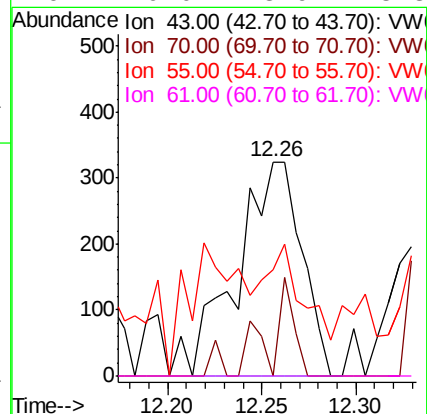
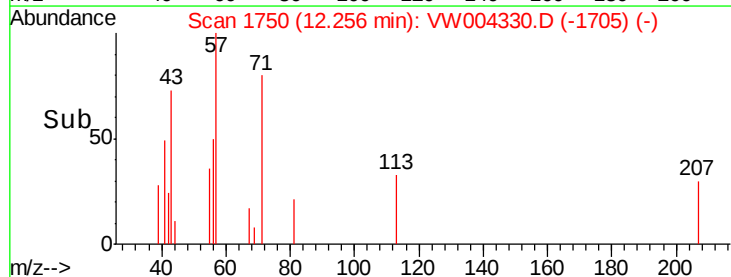
#74

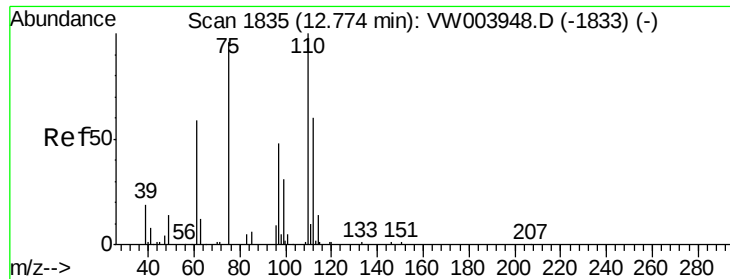
N-ethyl acetate
Concen: 2.174 ug/l
RT: 12.26 min Scan# 1750
Delta R.T. -0.02 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

Tgt Ion: 43 Resp: 760
Ion Ratio Lower Upper
43 100
70 17.1 34.2 51.4#
55 19.6 21.8 32.8#
61 0.0 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 70.00 (69.70 to 70.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 61.00 (60.70 to 61.70): VW

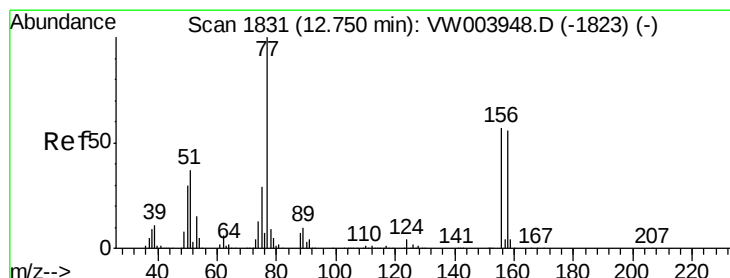
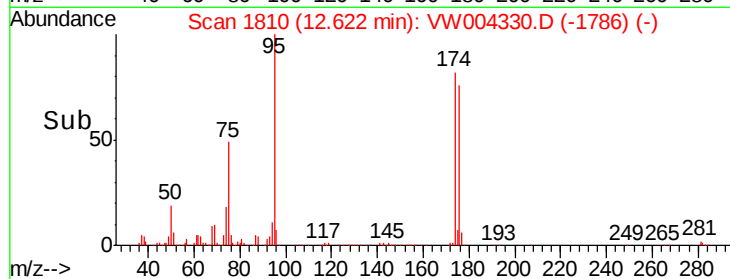
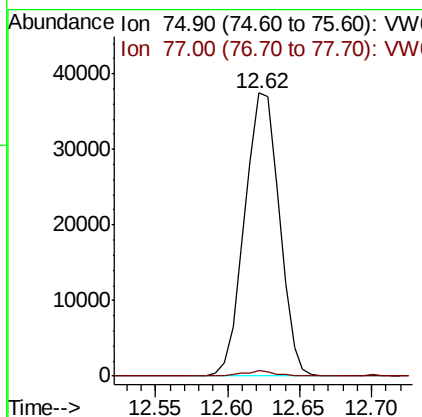
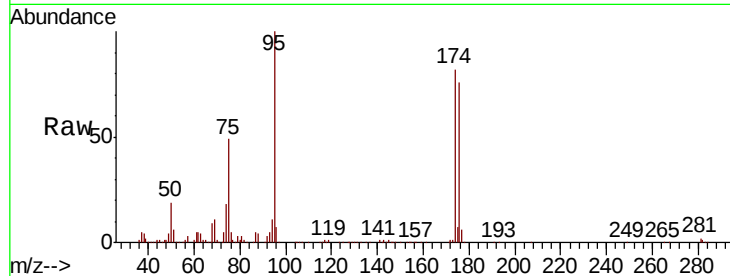




#76
 1,2,3-Trichloropropane
 Concen: 46.587 ug/l
 RT: 12.62 min Scan# 1810
 Delta R.T. -0.15 min
 Lab File: VW004330.D
 Acq: 29 Jul 2018 22:33

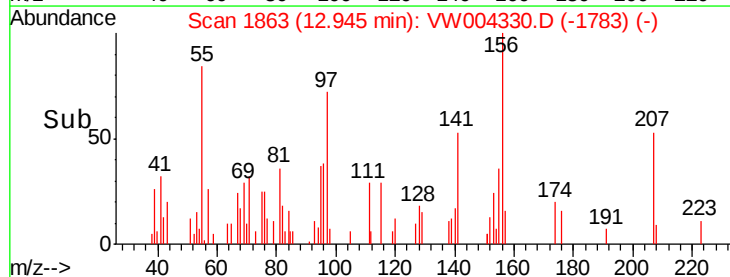
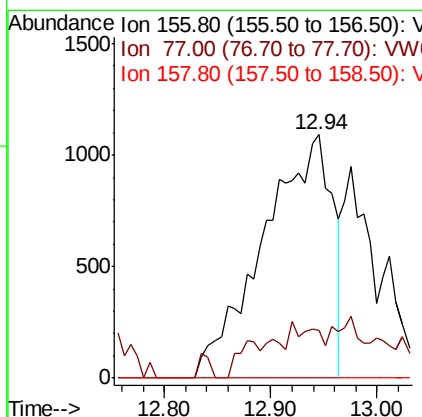
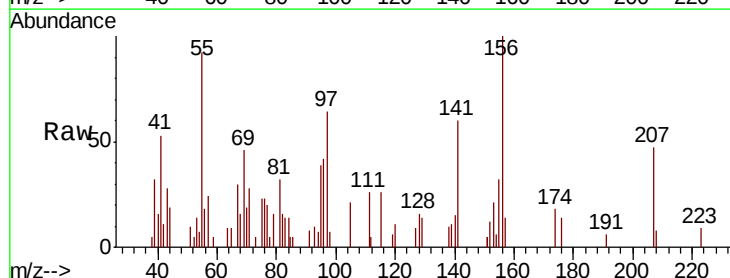
Instrument :
 MSVOA_W
 ClientSampleId :

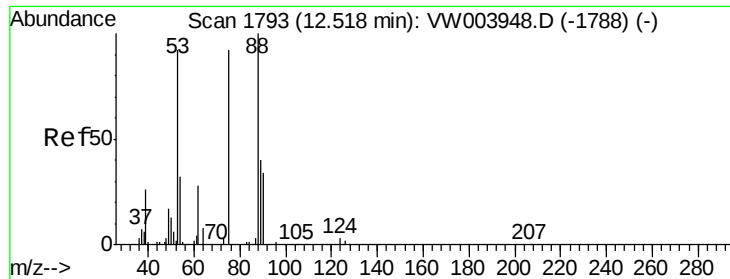
Tot Ion: 75 Resp: 62533
 Ion Ratio Lower Upper
 75 100
 77 1.8 0.0 0.0#



#77
 Bromobenzene
 Concen: 1.993 ug/l
 RT: 12.94 min Scan# 1863
 Delta R.T. 0.19 min
 Lab File: VW004330.D
 Acq: 29 Jul 2018 22:33

Tgt Ion: 156 Resp: 4910
 Ion Ratio Lower Upper
 156 100
 77 0.0 92.9 278.7#
 158 0.0 47.6 142.8#

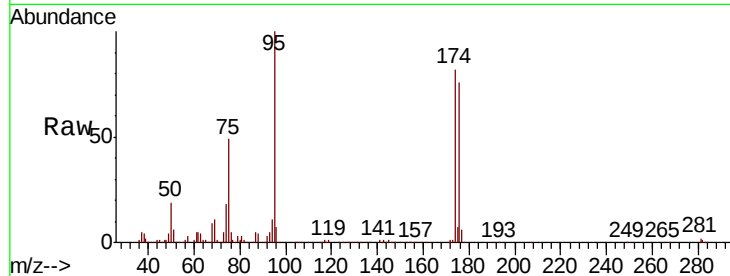




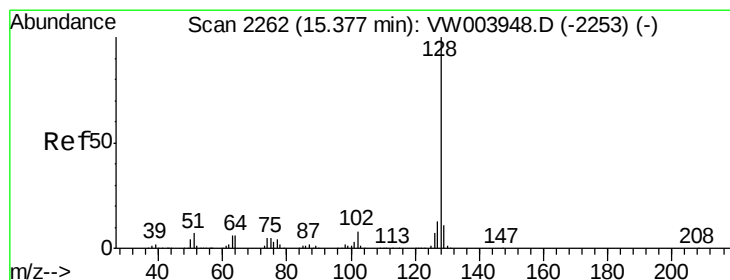
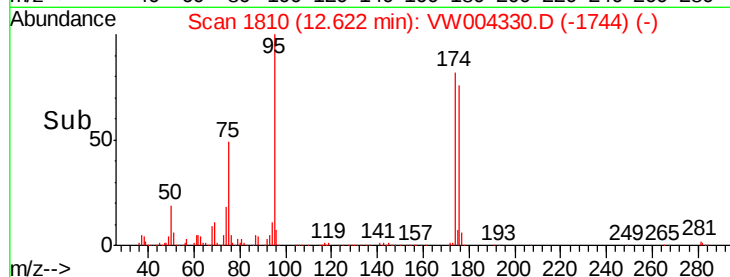
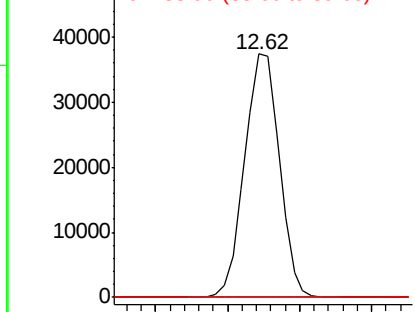
#81
trans-1,4-Dichloro-2-butene
Concen: 108.401 ug/l
RT: 12.62 min Scan# 1810
Delta R.T. 0.10 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 75 Resp: 62533
Ion Ratio Lower Upper
75 100
53 0.2 77.6 116.4#
89 0.0 36.0 54.0#

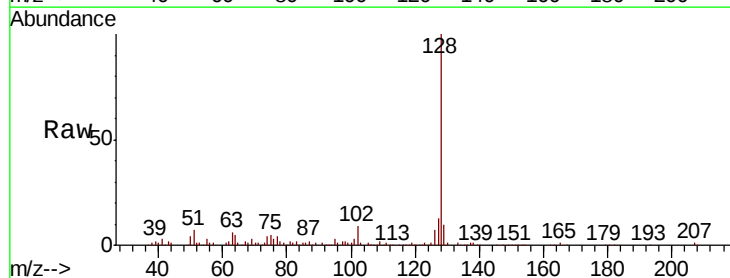


Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 53.00 (52.70 to 53.70): VW
Ion 88.90 (88.60 to 89.60): VW



#95
Naphthalene
Concen: 16.825 ug/l
RT: 15.38 min Scan# 2262
Delta R.T. -0.00 min
Lab File: VW004330.D
Acq: 29 Jul 2018 22:33

Tgt Ion:128 Resp: 89731
Ion Ratio Lower Upper
128 100
127 13.5 10.4 15.6
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

