

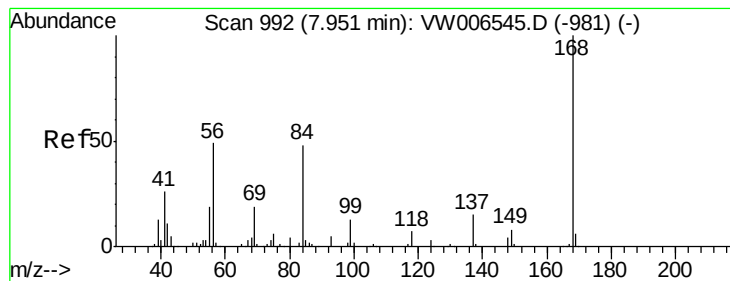
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW110518\
 Data File : VW006634.D
 Acq On : 05 Nov 2018 14:23
 Operator : SY/AP
 Sample : J5665-04RE
 Misc : 4.87G/5ML/MSVOA_W/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 DL-07BRE

Quant Time: Nov 06 01:22:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W110218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 01 03:48:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	45349	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	85737	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	30023	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	3112	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	42824	109.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	219.72%	
35) Dibromofluoromethane	7.89	113	44592	82.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	165.74%	
50) Toluene-d8	10.33	98	60514	29.54	ug/l	0.00
Spiked Amount 50.000			Recovery	=	59.08%	
62) 4-Bromofluorobenzene	12.63	95	3902	5.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	10.50%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	680	3.468	ug/l #	36
11) Tert butyl alcohol	5.14	59	492	23.425	ug/l #	84
13) Acrolein	3.64	56	41	1.552	ug/l #	1
14) Allyl chloride	4.62	41	883	1.829	ug/l #	28
16) Acetone	4.12	43	15374	244.281	ug/l	92
20) Methylene Chloride	4.92	84	27676	70.279	ug/l	91
25) 2-Butanone	7.15	43	730	8.129	ug/l #	46
26) 2,2-Dichloropropane	7.15	77	1181	2.874	ug/l #	49
29) Tetrahydrofuran	7.55	42	284	5.028	ug/l #	29
31) Cyclohexane	7.95	56	769	1.238	ug/l #	33
36) 1,1-Dichloropropene	7.95	75	3003	3.983	ug/l #	48
37) Ethyl Acetate	7.15	43	730	2.794	ug/l #	1
38) Carbon Tetrachloride	7.95	117	3955	5.020	ug/l #	18
41) Methacrylonitrile	7.45	41	2117	13.213	ug/l #	40
43) Isopropyl Acetate	8.26	43	1570	3.011	ug/l #	23
51) 4-Methyl-2-Pentanone	10.21	43	623	2.327	ug/l	96
68) m/p-Xylenes	11.84	106	649	1.538	ug/l	80
75) 1,1,2,2-Tetrachloroethane	12.58	83	187	5.775	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	2076	85.500	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	2076	212.298	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.26	105	217	1.228	ug/l #	64
85) sec-Butylbenzene	13.26	105	217	1.009	ug/l #	55

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006634.D

Acq: 05 Nov 2018 14:23

Instrument :

MSVOA_W

ClientSampleId :

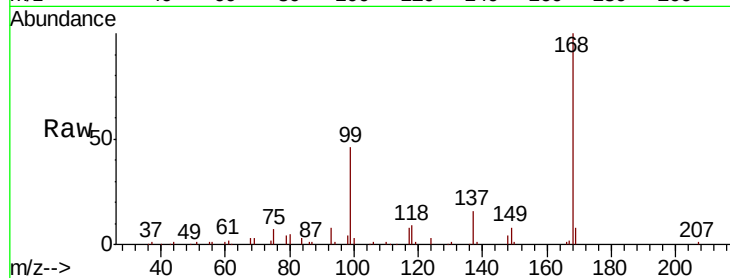
DL-07BRE

Tgt Ion:168 Resp: 45349

Ion Ratio Lower Upper

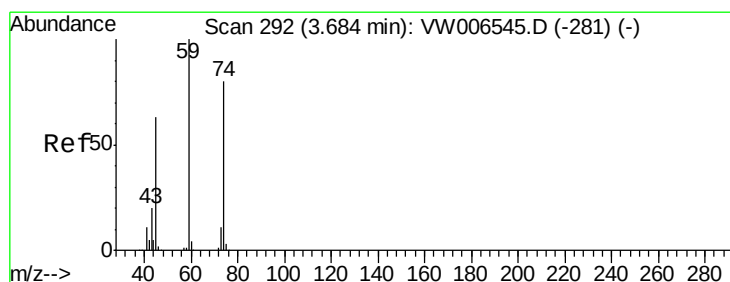
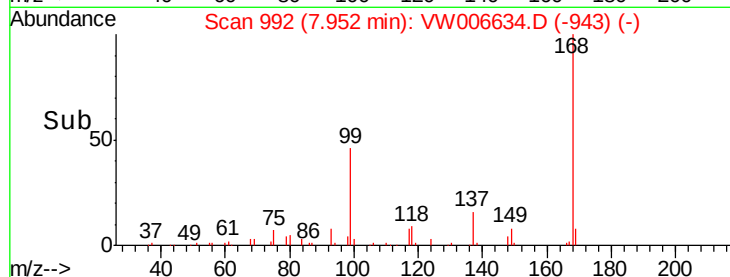
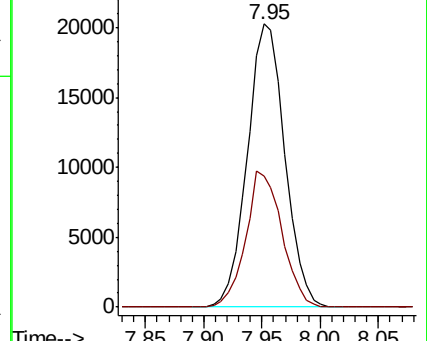
168 100

99 46.4 37.4 56.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 3.468 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW006634.D

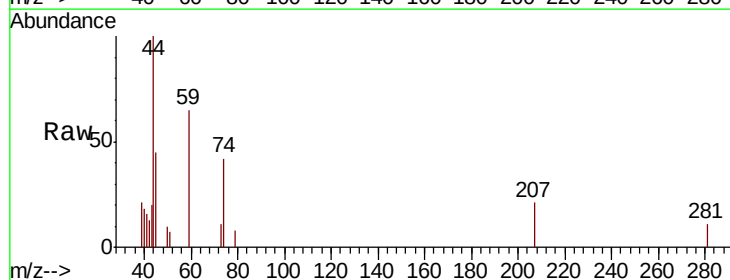
Acq: 05 Nov 2018 14:23

Tgt Ion: 74 Resp: 680

Ion Ratio Lower Upper

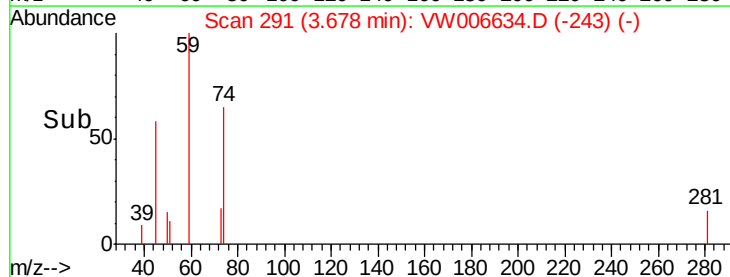
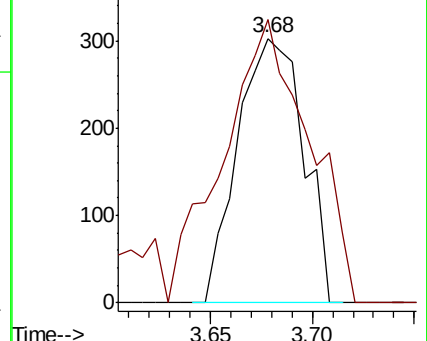
74 100

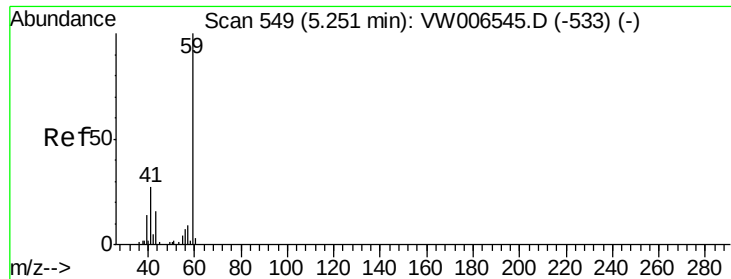
45 139.6 41.1 123.4#



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

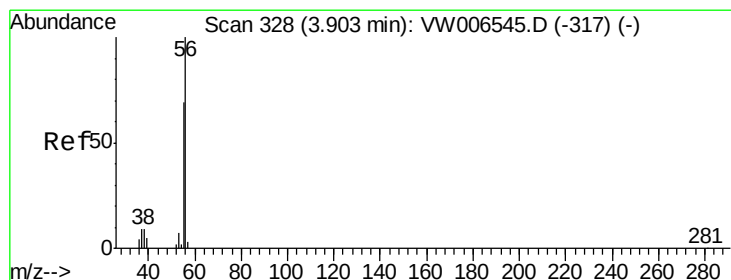
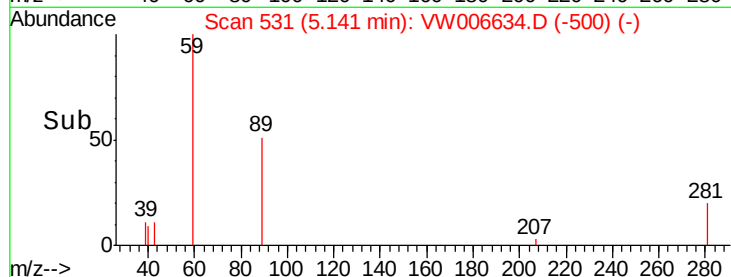
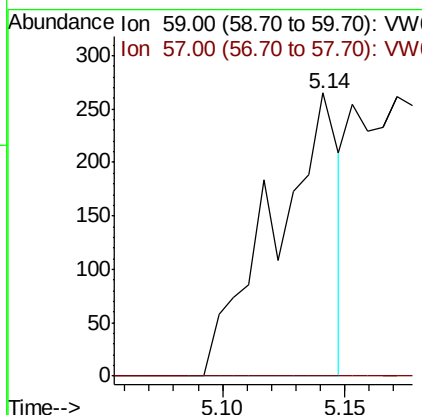
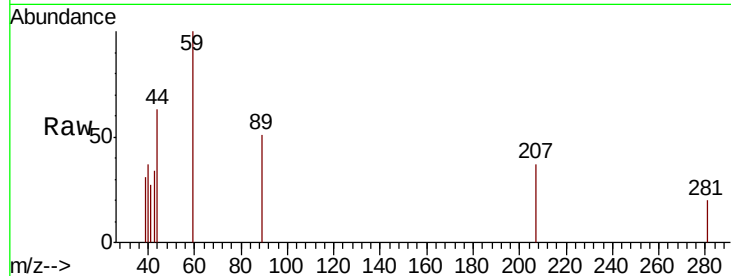




#11
Tert butyl alcohol
Concen: 23.425 ug/l
RT: 5.14 min Scan# 531
Delta R.T. -0.11 min
Lab File: VW006634.D
Acq: 05 Nov 2018 14:23

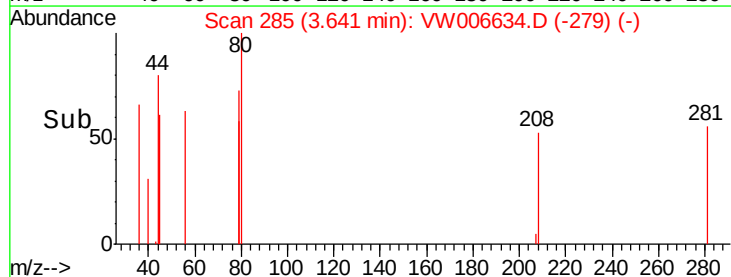
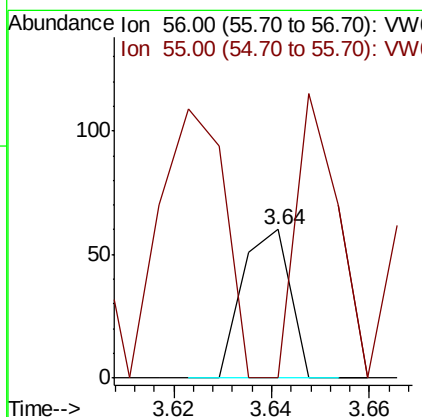
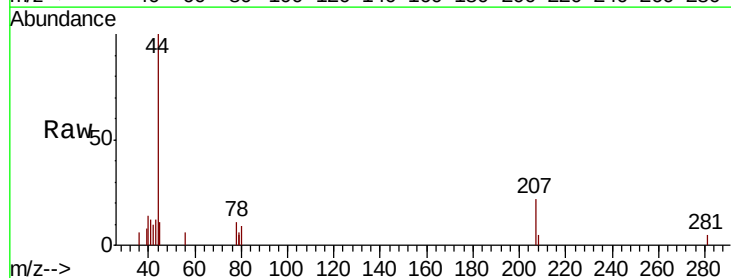
Instrument :
MSVOA_W
ClientSampleId :
DL-07BRE

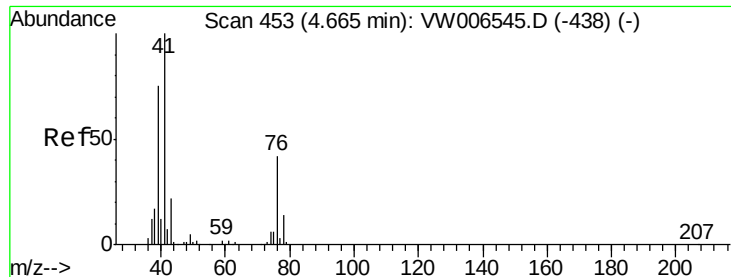
Tgt Ion: 59 Resp: 492
Ion Ratio Lower Upper
59 100
57 0.0 4.3 6.5#



#13
Acrolein
Concen: 1.552 ug/l
RT: 3.64 min Scan# 285
Delta R.T. -0.26 min
Lab File: VW006634.D
Acq: 05 Nov 2018 14:23

Tgt Ion: 56 Resp: 41
Ion Ratio Lower Upper
56 100
55 165.9 56.9 85.3#

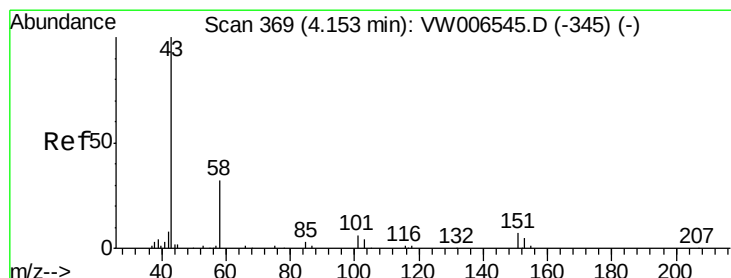
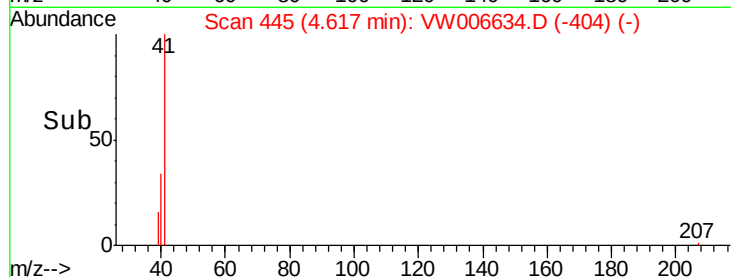
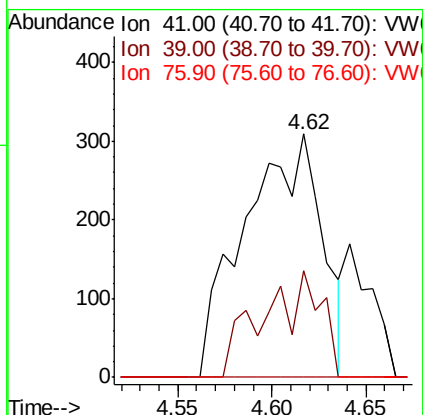
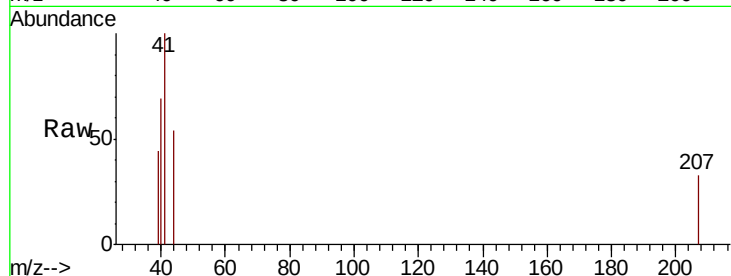




#14
 Allyl chloride
 Concen: 1.829 ug/l
 RT: 4.62 min Scan# 445
 Delta R.T. -0.05 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

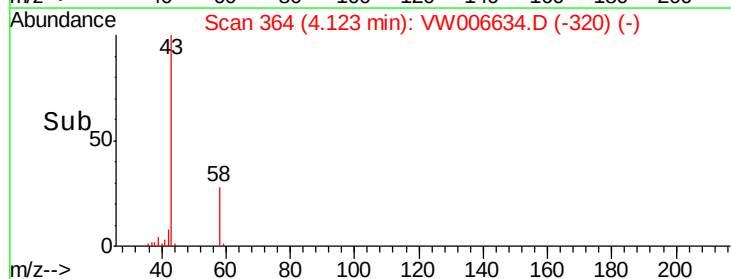
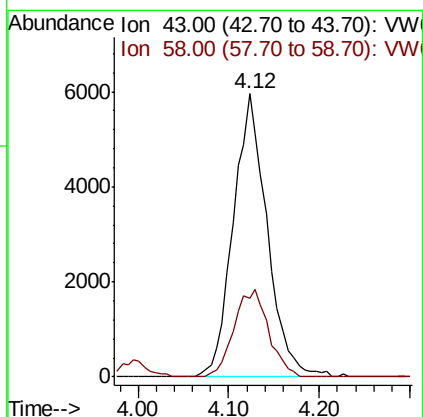
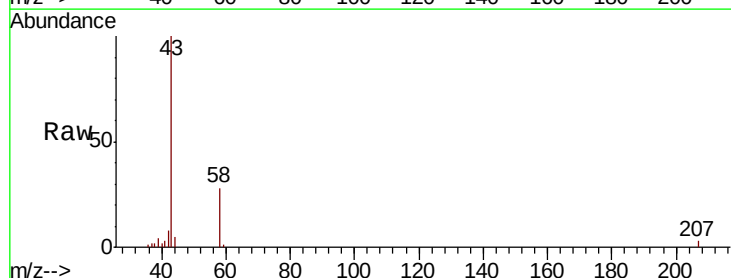
Instrument :
 MSVOA_W
 ClientSampleID :
 DL-07BRE

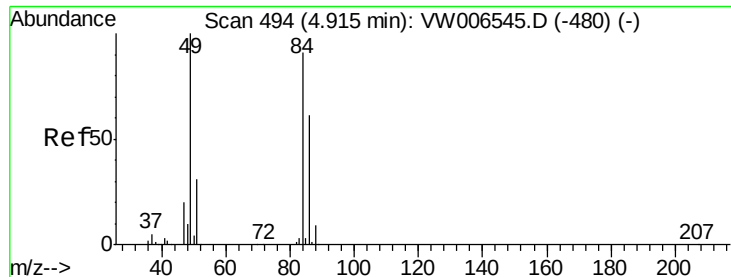
Tgt Ion: 41 Resp: 883
 Ion Ratio Lower Upper
 41 100
 39 13.4 62.1 93.1#
 76 0.0 34.2 51.2#



#16
 Acetone
 Concen: 244.281 ug/l
 RT: 4.12 min Scan# 364
 Delta R.T. -0.03 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

Tgt Ion: 43 Resp: 15374
 Ion Ratio Lower Upper
 43 100
 58 27.7 25.8 38.8





#20

Methylene Chloride

Concen: 70.279 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW006634.D

Acq: 05 Nov 2018 14:23

Instrument :

MSVOA_W

ClientSampleId :

DL-07BRE

Tgt Ion: 84 Resp: 27676

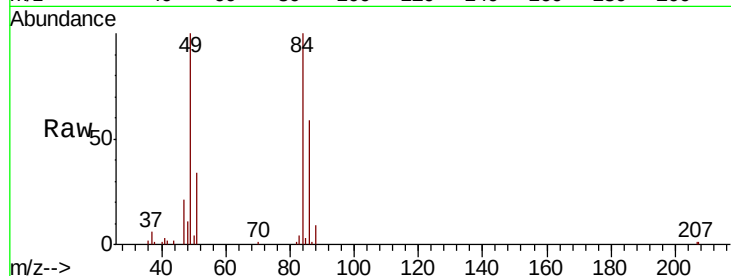
Ion Ratio Lower Upper

84 100

49 99.8 88.2 132.4

51 34.2 27.0 40.6

86 58.9 53.8 80.8

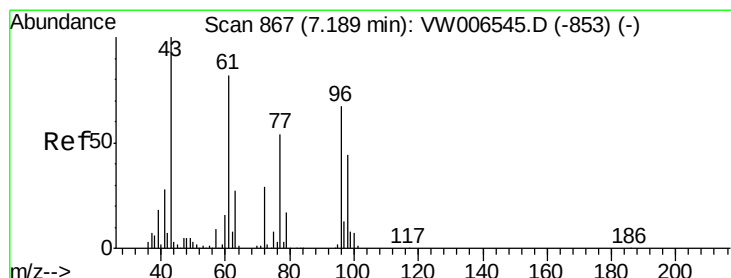
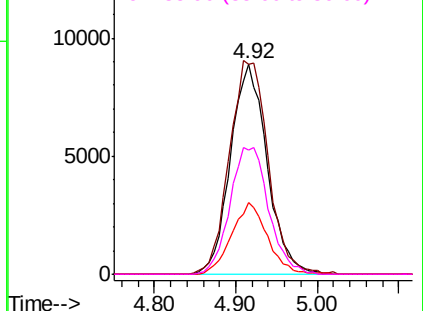
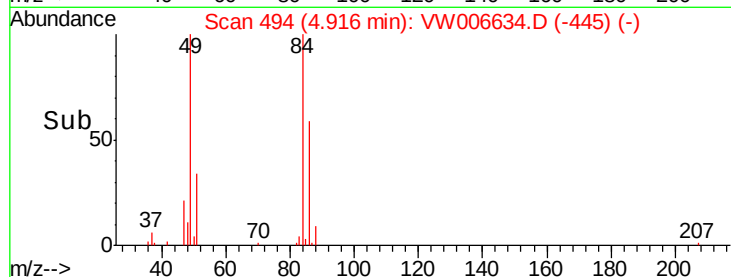


Abundance Ion 83.90 (83.60 to 84.60): VW

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



#25

2-Butanone

Concen: 8.129 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.04 min

Lab File: VW006634.D

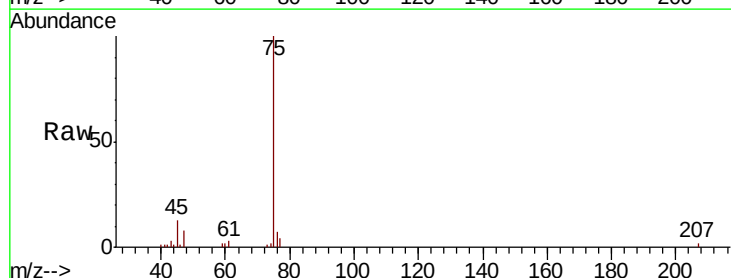
Acq: 05 Nov 2018 14:23

Tgt Ion: 43 Resp: 730

Ion Ratio Lower Upper

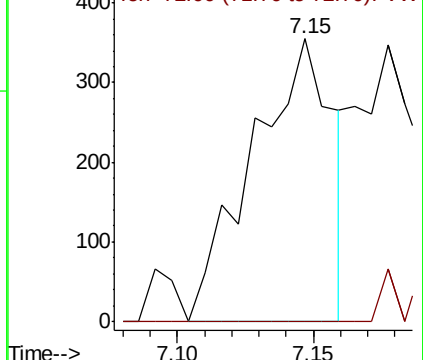
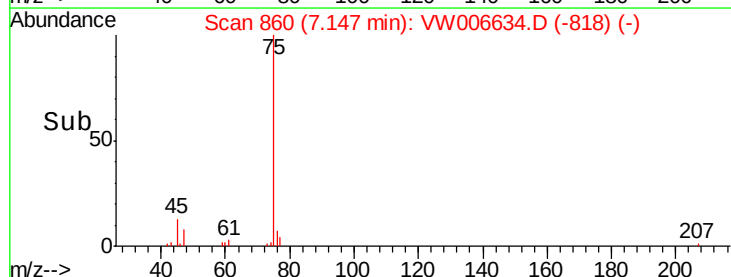
43 100

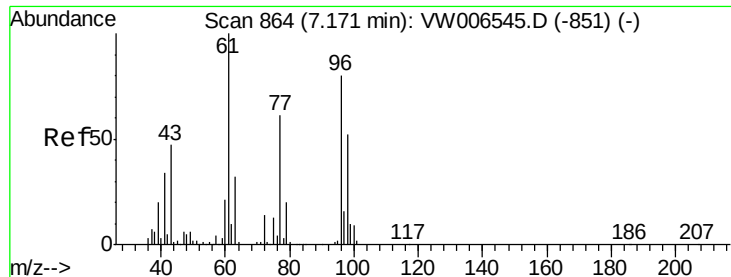
72 0.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

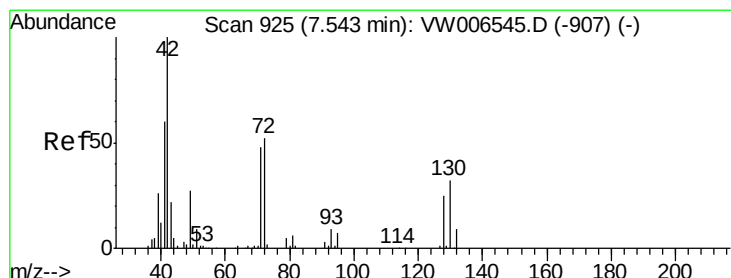
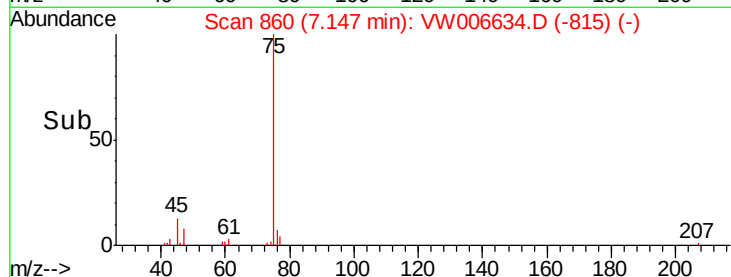
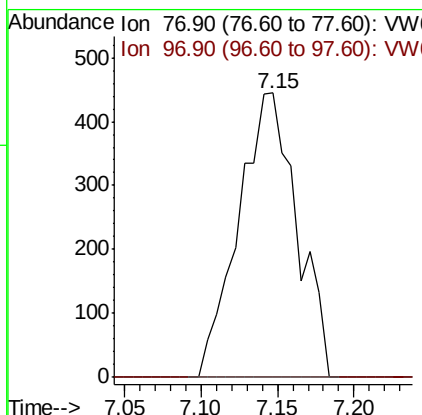
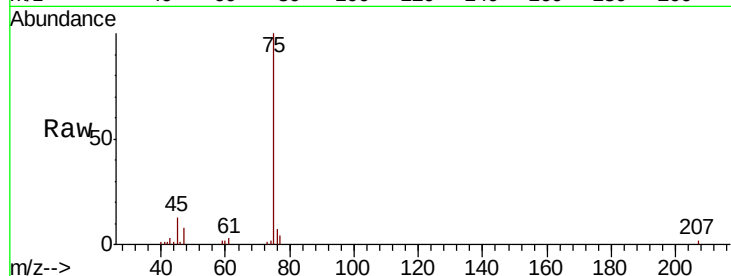




#26
 2,2-Dichloropropane
 Concen: 2.874 ug/l
 RT: 7.15 min Scan# 860
 Delta R.T. -0.02 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

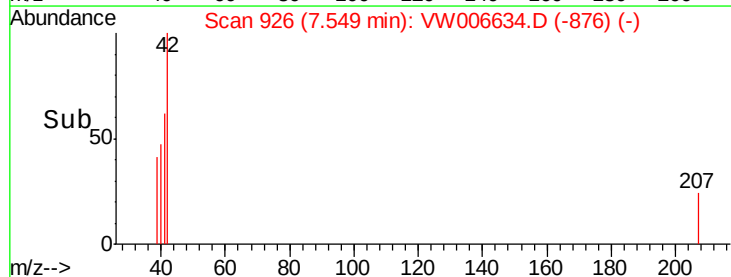
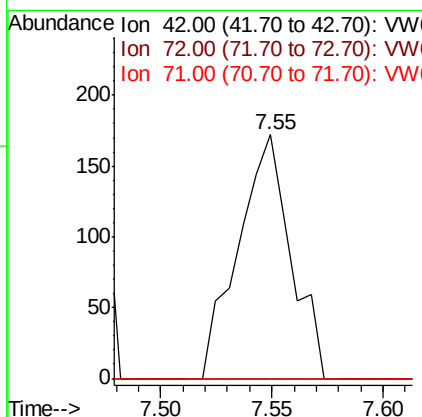
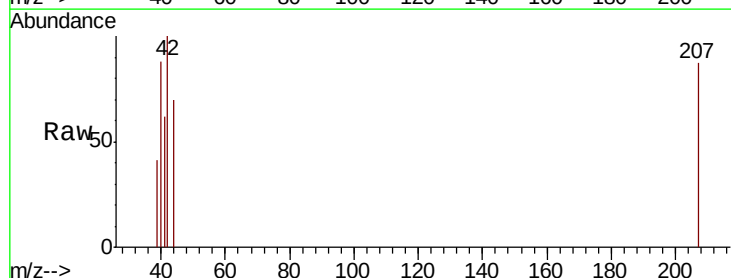
Instrument :
 MSVOA_W
 ClientSampleId :
 DL-07BRE

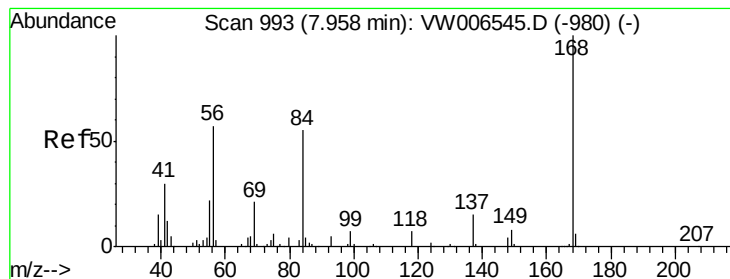
Tgt Ion: 77 Resp: 1181
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.8 38.4#



#29
 Tetrahydrofuran
 Concen: 5.028 ug/l
 RT: 7.55 min Scan# 926
 Delta R.T. 0.01 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

Tgt Ion: 42 Resp: 284
 Ion Ratio Lower Upper
 42 100
 72 0.0 39.2 58.8#
 71 0.0 37.6 56.4#





#31

Cyclohexane

Concen: 1.238 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW006634.D

Acq: 05 Nov 2018 14:23

Instrument :

MSVOA_W

ClientSampleId :

DL-07BRE

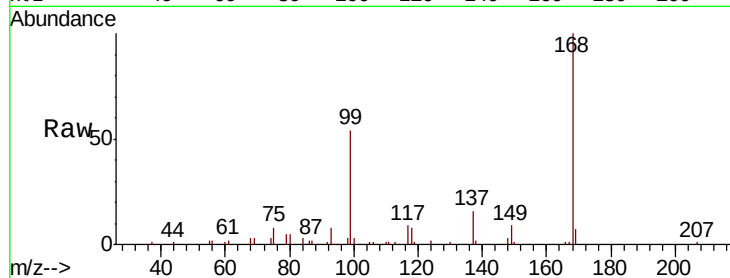
Tgt Ion: 56 Resp: 769

Ion Ratio Lower Upper

56 100

69 130.4 29.0 43.4#

84 128.7 77.8 116.6#

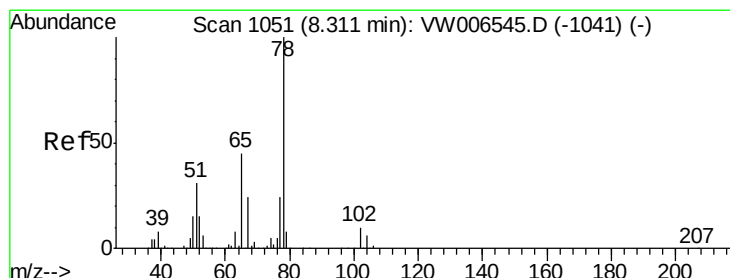
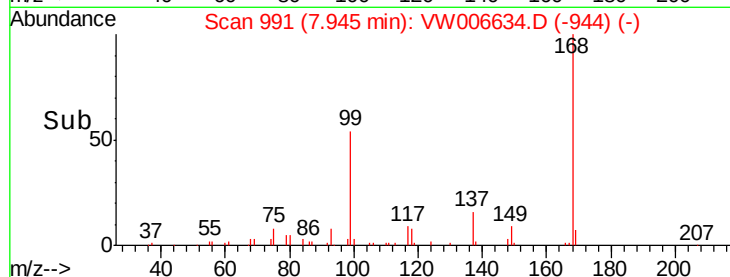
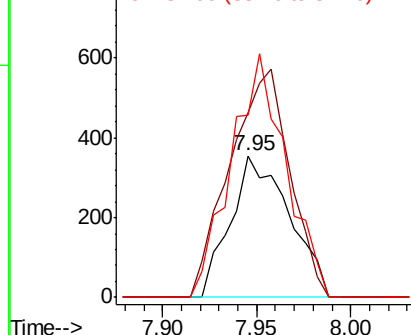


Abundance

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: 109.856 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VW006634.D

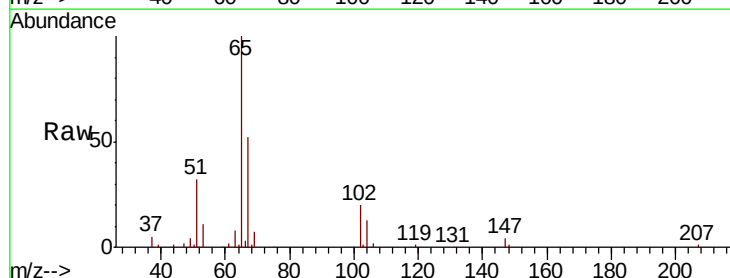
Acq: 05 Nov 2018 14:23

Tgt Ion: 65 Resp: 42824

Ion Ratio Lower Upper

65 100

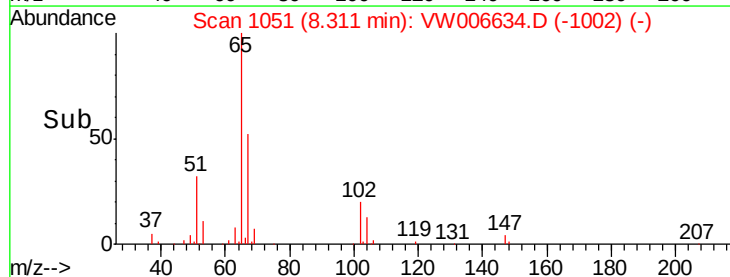
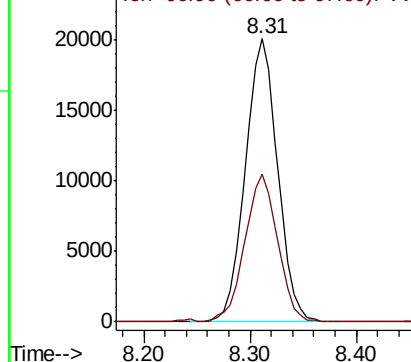
67 52.8 0.0 104.4

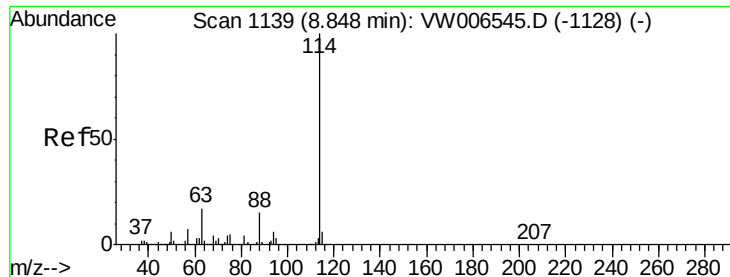


Abundance

Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

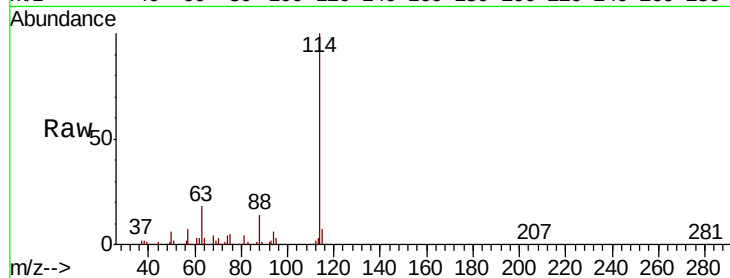




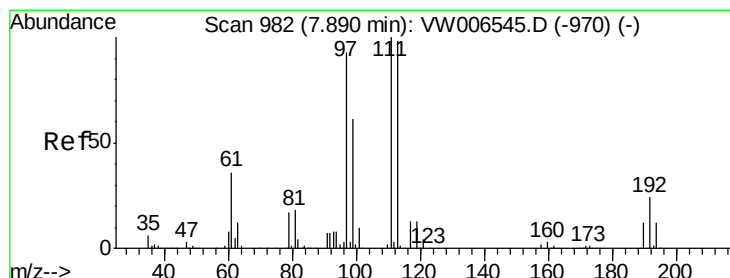
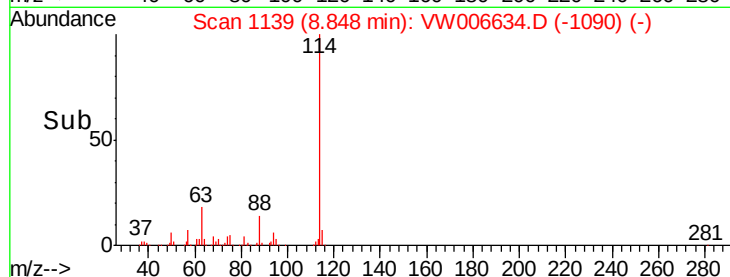
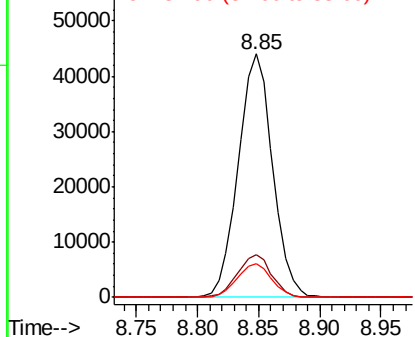
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

Instrument :
 MSVOA_W
 ClientSampleId :
 DL-07BRE

Tgt Ion:114 Resp: 85737
 Ion Ratio Lower Upper
 114 100
 63 17.7 0.0 34.4
 88 14.0 0.0 29.0

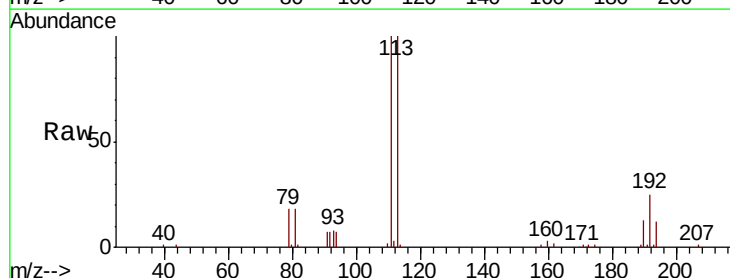


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

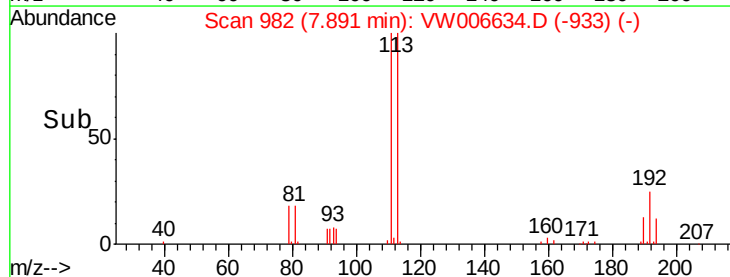
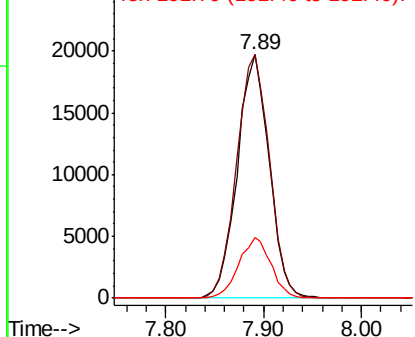


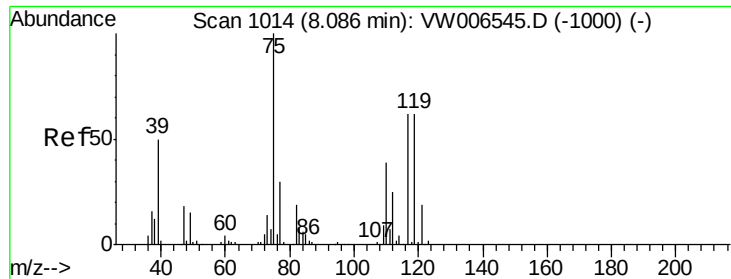
#35
 Dibromofluoromethane
 Concen: 82.874 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. 0.00 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

Tgt Ion:113 Resp: 44592
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.2 123.2
 192 24.7 19.0 28.6



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

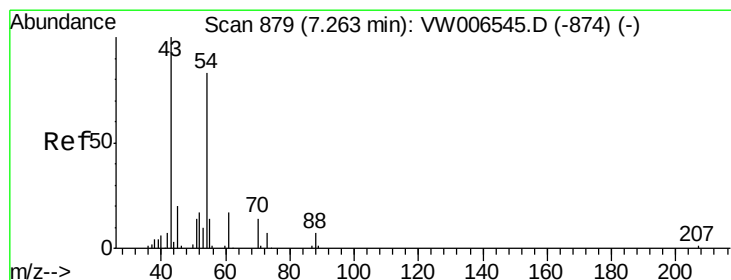
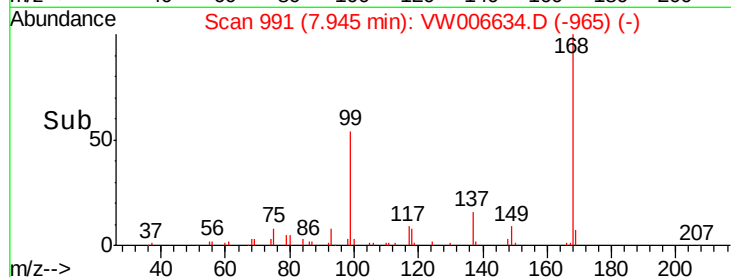
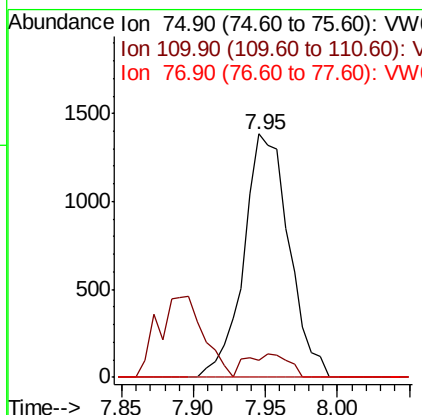
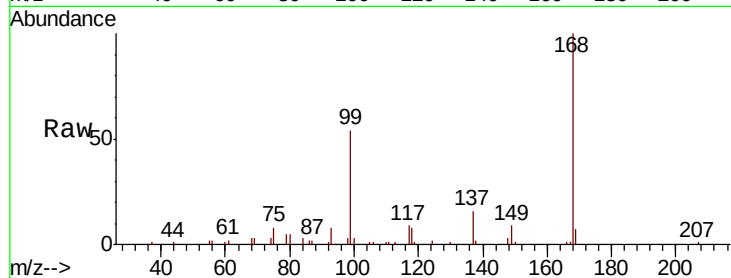




#36
 1,1-Dichloropropene
 Concen: 3.983 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.14 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

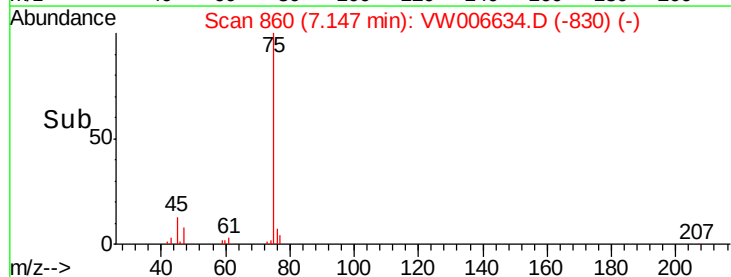
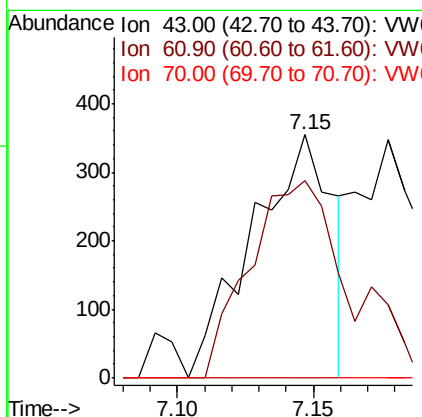
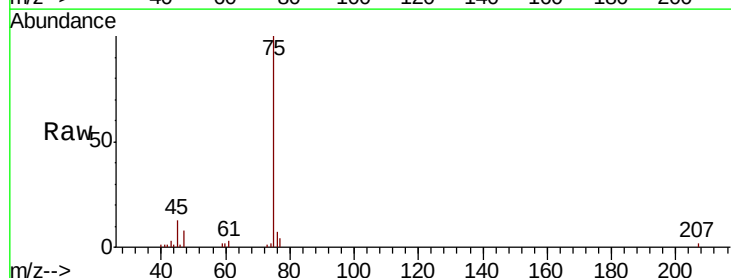
Instrument :
 MSVOA_W
 ClientSampleId :
 DL-07BRE

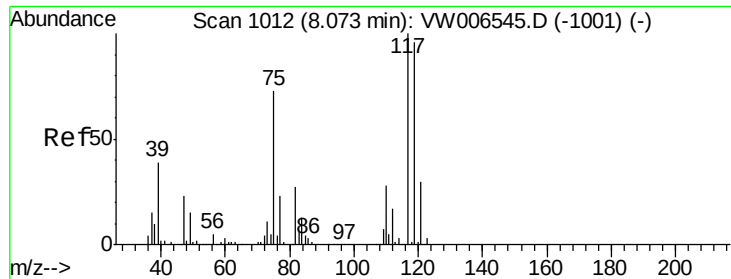
Tgt Ion: 75 Resp: 3003
 Ion Ratio Lower Upper
 75 100
 110 9.0 19.5 58.5#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 2.794 ug/l
 RT: 7.15 min Scan# 860
 Delta R.T. -0.12 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

Tgt Ion: 43 Resp: 730
 Ion Ratio Lower Upper
 43 100
 61 100.1 12.1 18.1#
 70 0.0 9.8 14.6#

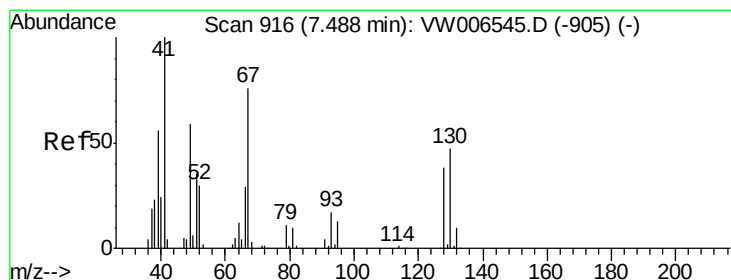
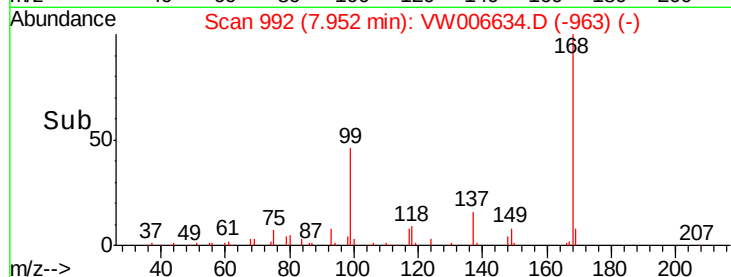
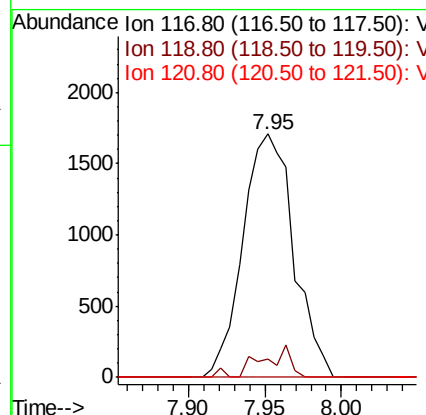
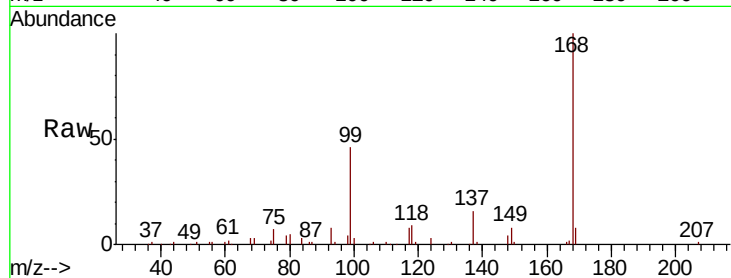




#38
Carbon Tetrachloride
Concen: 5.020 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW006634.D
Acq: 05 Nov 2018 14:23

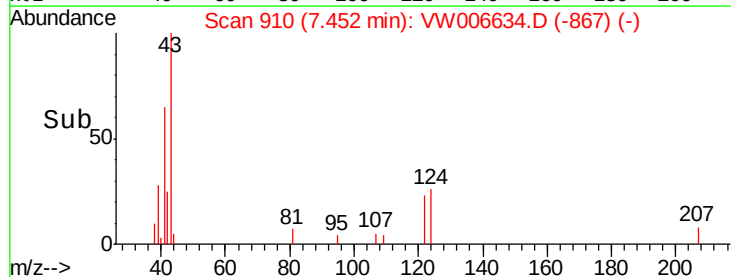
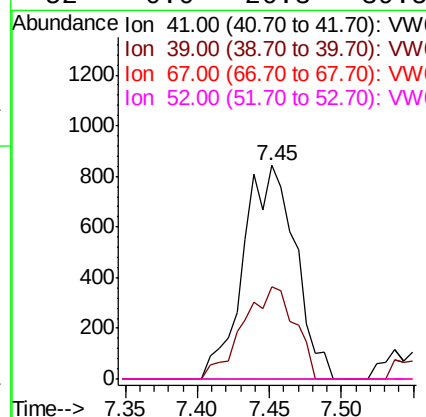
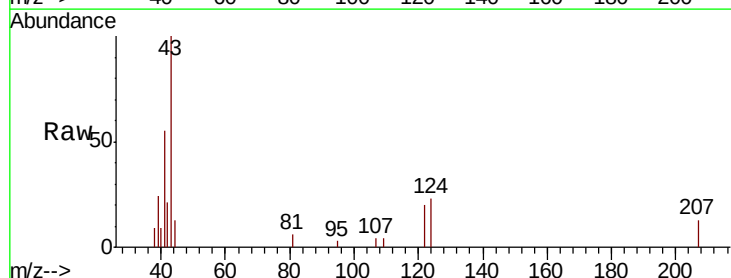
Instrument :
MSVOA_W
ClientSampleId :
DL-07BRE

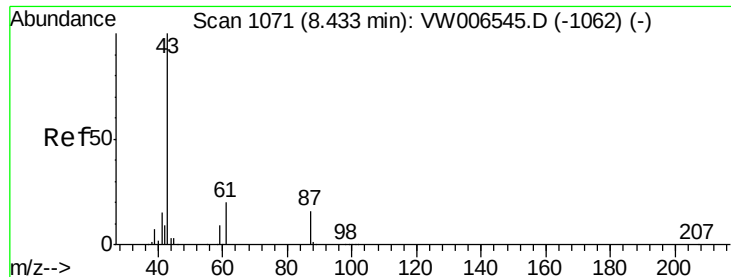
Tgt Ion: 117 Resp: 3955
Ion Ratio Lower Upper
117 100
119 7.5 76.3 114.5#
121 0.0 24.1 36.1#



#41
Methacrylonitrile
Concen: 13.213 ug/l
RT: 7.45 min Scan# 910
Delta R.T. -0.04 min
Lab File: VW006634.D
Acq: 05 Nov 2018 14:23

Tgt Ion: 41 Resp: 2117
Ion Ratio Lower Upper
41 100
39 43.1 44.5 66.7#
67 0.0 63.8 95.8#
52 0.0 26.3 39.5#





#43

Isopropyl Acetate

Concen: 3.011 ug/l

RT: 8.26 min Scan# 1043

Delta R.T. -0.17 min

Lab File: VW006634.D

Acq: 05 Nov 2018 14:23

Instrument :

MSVOA_W

ClientSampleId :

DL-07BRE

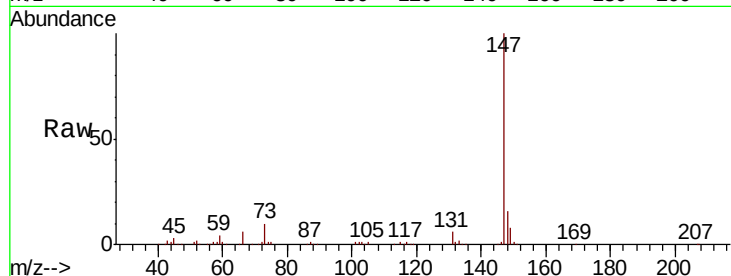
Tgt Ion: 43 Resp: 1570

Ion Ratio Lower Upper

43 100

61 20.4 27.2 40.8#

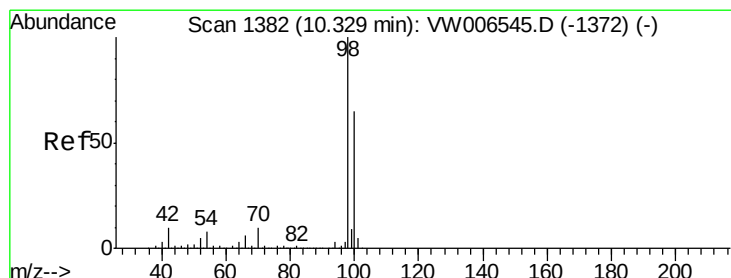
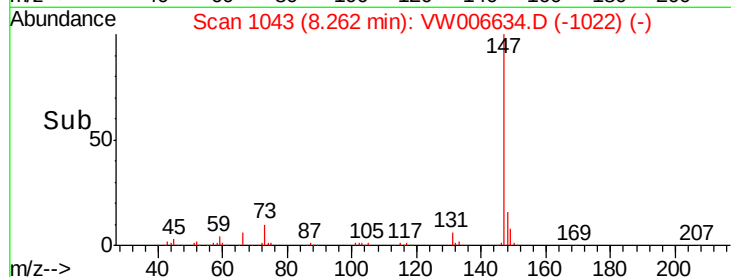
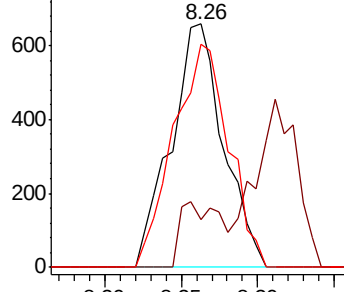
87 96.4 12.9 19.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW



#50

Toluene-d8

Concen: 29.543 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006634.D

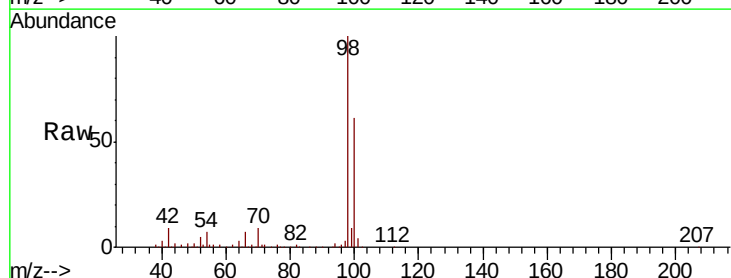
Acq: 05 Nov 2018 14:23

Tgt Ion: 98 Resp: 60514

Ion Ratio Lower Upper

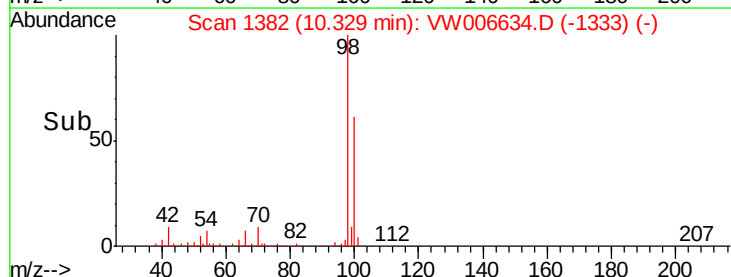
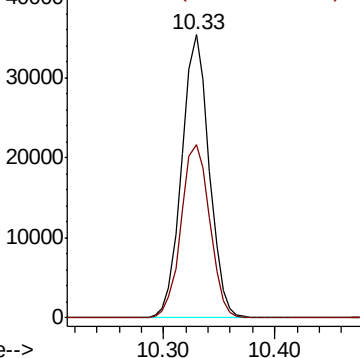
98 100

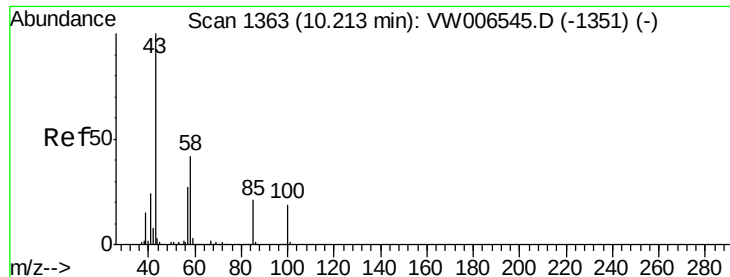
100 63.7 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

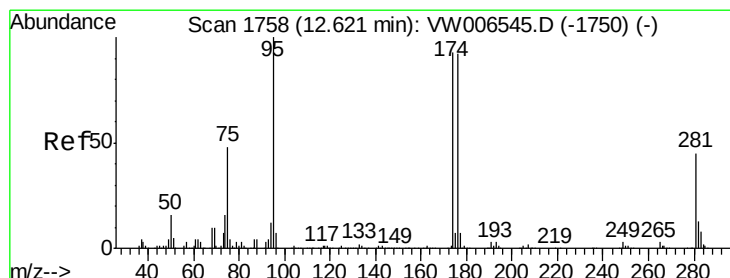
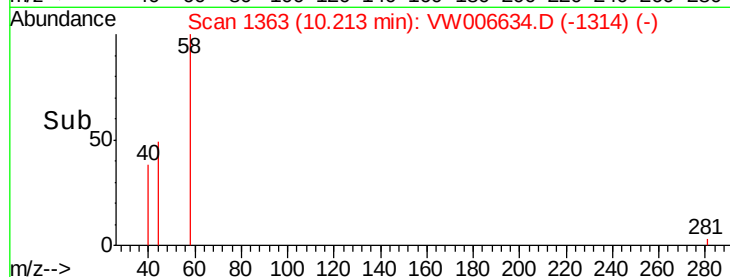
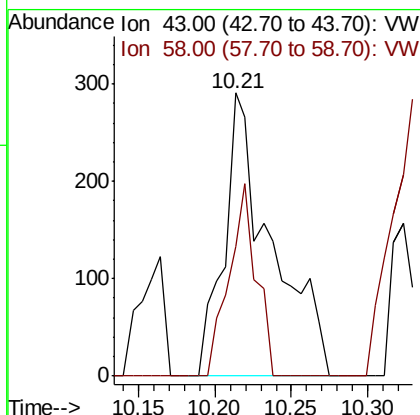
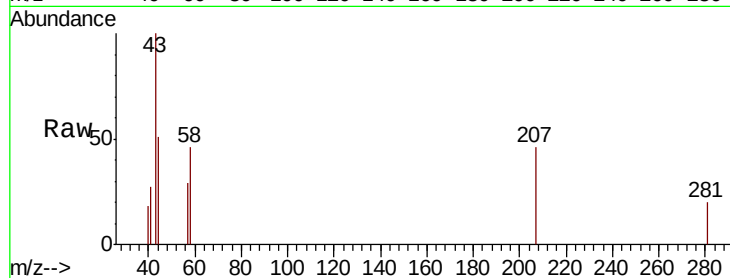




#51
 4-Methyl-2-Pentanone
 Concen: 2.327 ug/l
 RT: 10.21 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

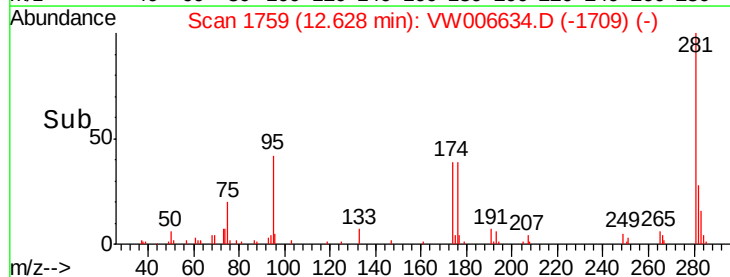
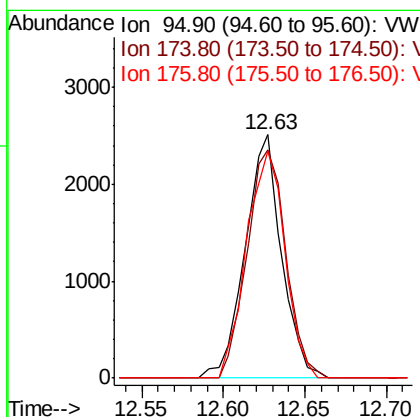
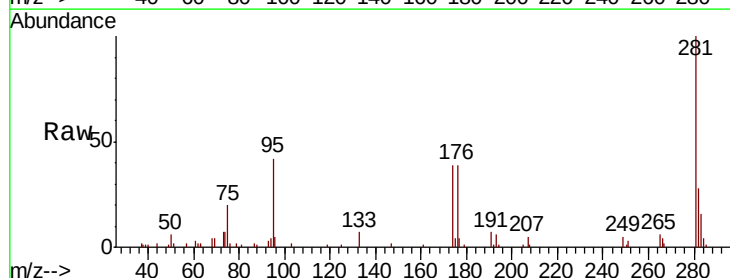
Instrument :
 MSVOA_W
 ClientSampleId :
 DL-07BRE

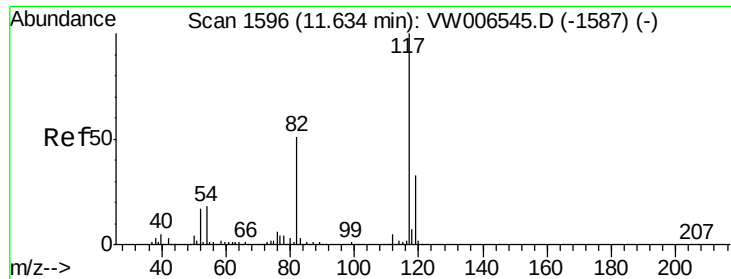
Tgt Ion: 43 Resp: 623
 Ion Ratio Lower Upper
 43 100
 58 39.0 33.4 50.0



#62
 4-Bromofluorobenzene
 Concen: 5.255 ug/l
 RT: 12.63 min Scan# 1759
 Delta R.T. 0.01 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

Tgt Ion: 95 Resp: 3902
 Ion Ratio Lower Upper
 95 100
 174 100.2 0.0 192.4
 176 98.4 0.0 187.4

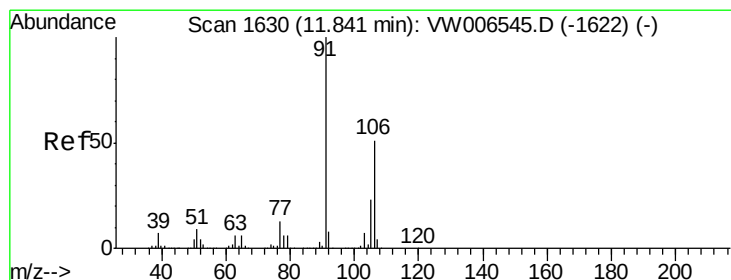
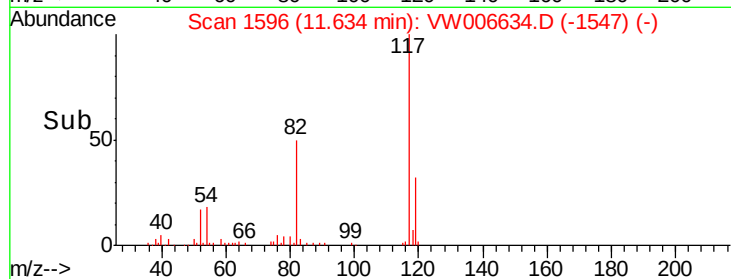
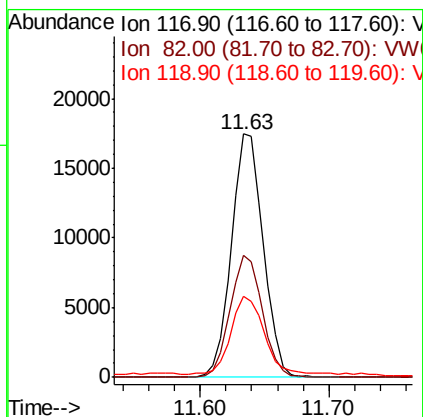
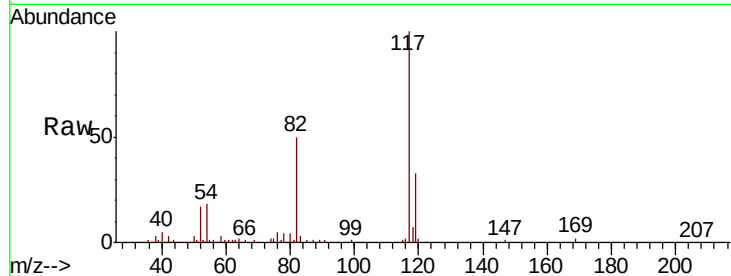




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW006634.D
Acq: 05 Nov 2018 14:23

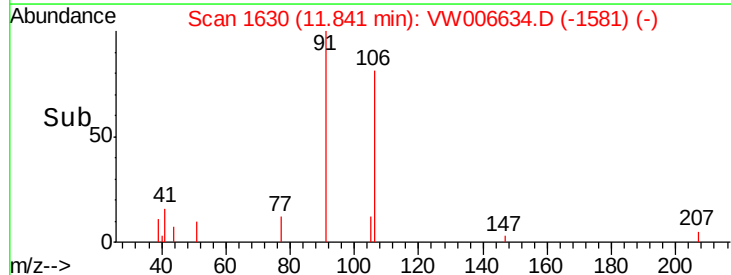
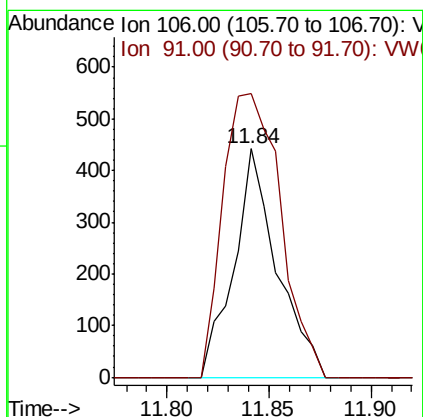
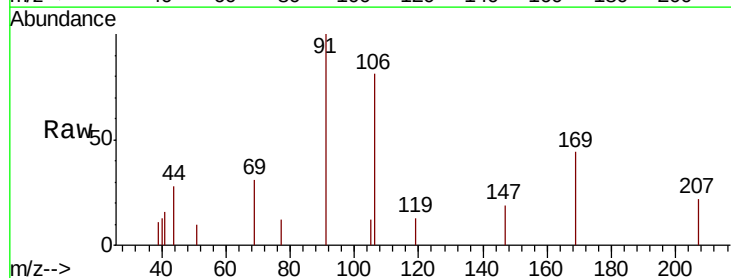
Instrument :
MSVOA_W
ClientSampleId :
DL-07BRE

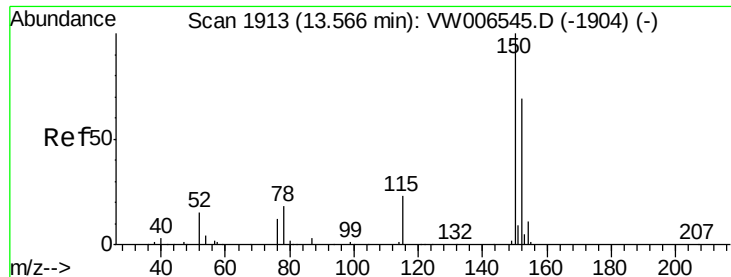
Tgt Ion:117 Resp: 30023
Ion Ratio Lower Upper
117 100
82 49.9 40.8 61.2
119 32.1 26.1 39.1



#68
m/p-Xylenes
Concen: 1.538 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW006634.D
Acq: 05 Nov 2018 14:23

Tgt Ion:106 Resp: 649
Ion Ratio Lower Upper
106 100
91 165.9 156.7 235.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VW006634.D

Acq: 05 Nov 2018 14:23

Instrument :

MSVOA_W

ClientSampleId :

DL-07BRE

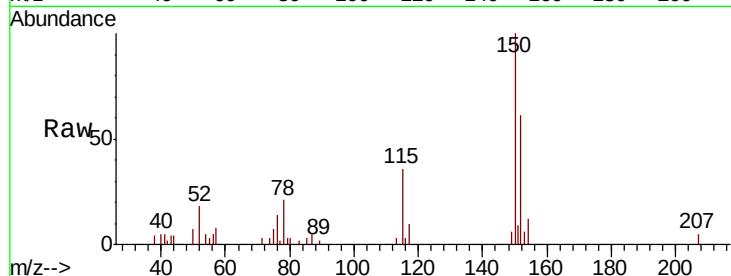
Tgt Ion:152 Resp: 3112

Ion Ratio Lower Upper

152 100

115 53.0 26.6 79.8

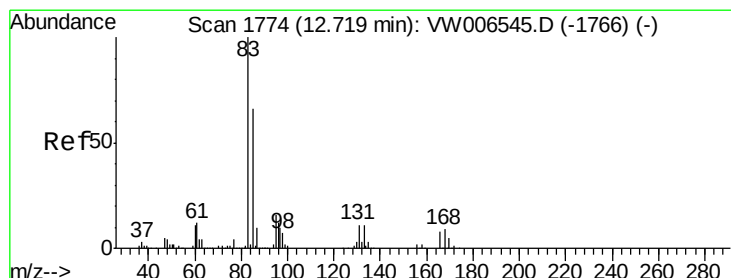
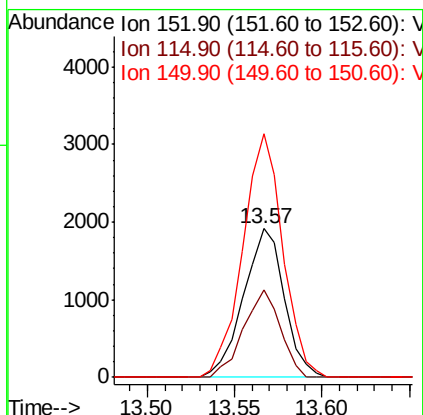
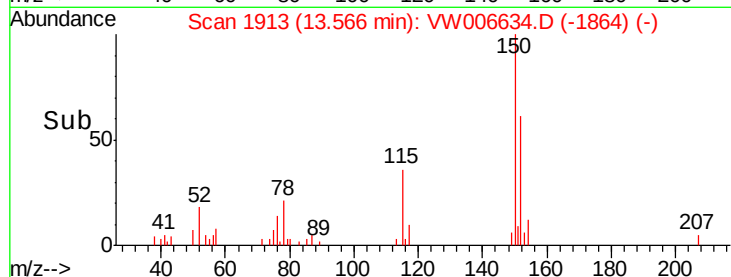
150 160.1 0.0 344.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: 5.775 ug/l

RT: 12.58 min Scan# 1752

Delta R.T. -0.13 min

Lab File: VW006634.D

Acq: 05 Nov 2018 14:23

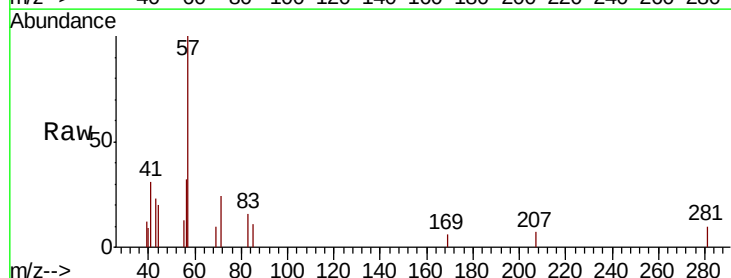
Tgt Ion: 83 Resp: 187

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

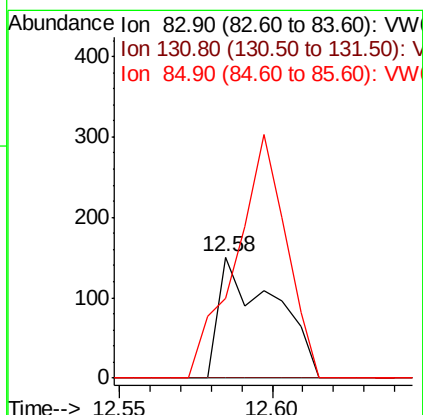
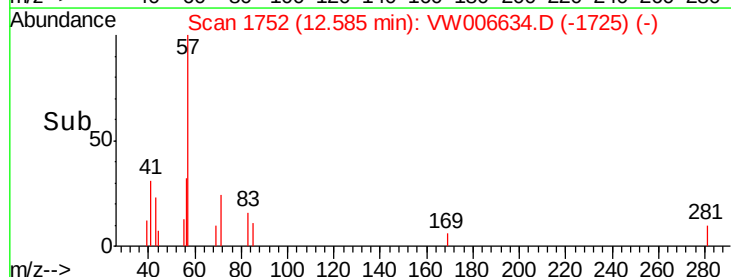
85 185.6 32.3 96.8#

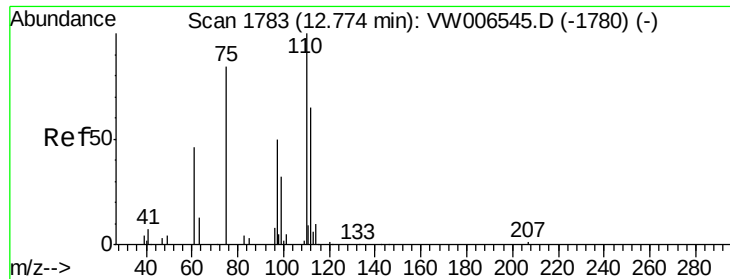


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 85.500 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006634.D

Acq: 05 Nov 2018 14:23

Instrument :

MSVOA_W

ClientSampled :

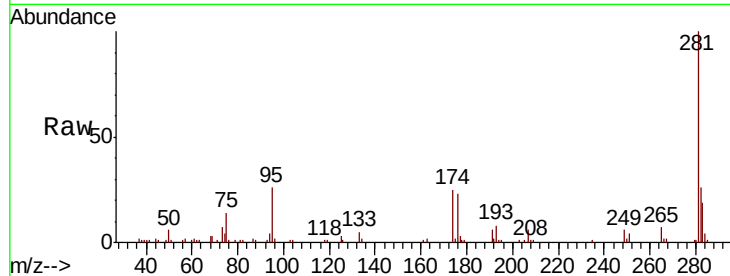
DL-07BRE

Tgt Ion: 75 Resp: 2076

Ion Ratio Lower Upper

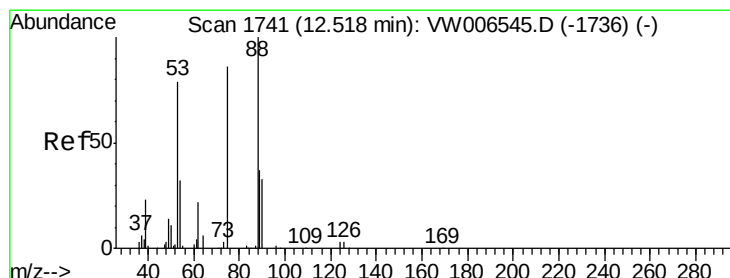
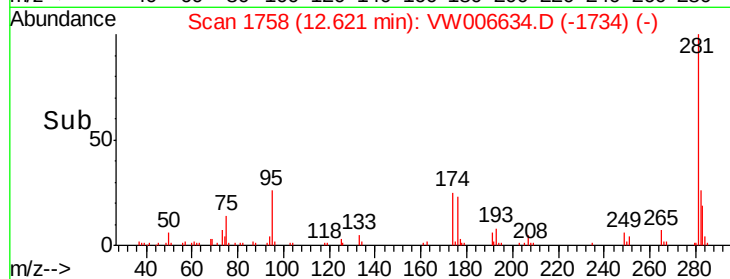
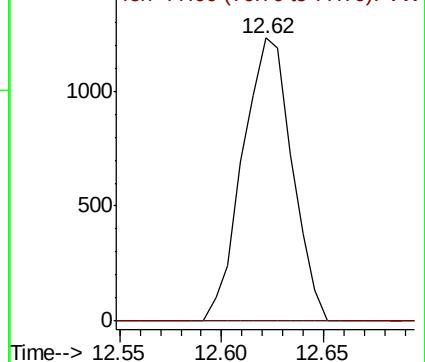
75 100

77 0.0 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: 212.298 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW006634.D

Acq: 05 Nov 2018 14:23

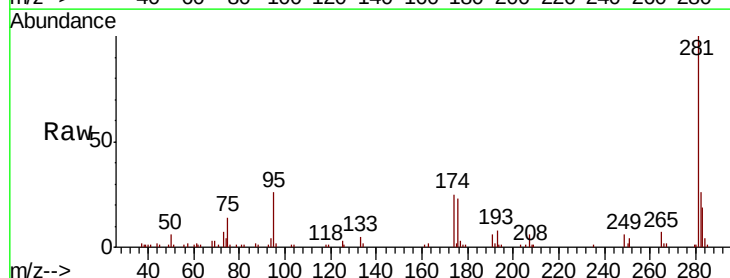
Tgt Ion: 75 Resp: 2076

Ion Ratio Lower Upper

75 100

53 0.0 77.2 115.8#

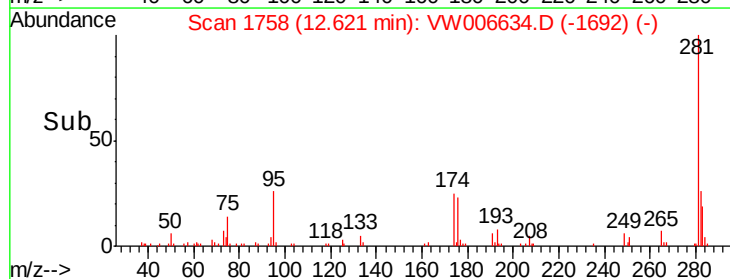
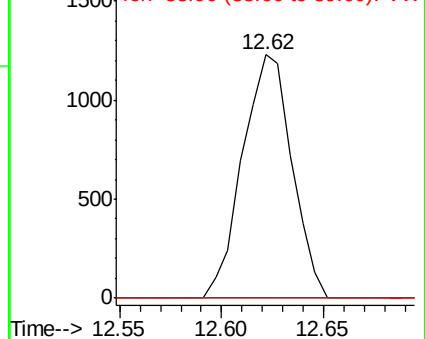
89 0.0 38.6 58.0#

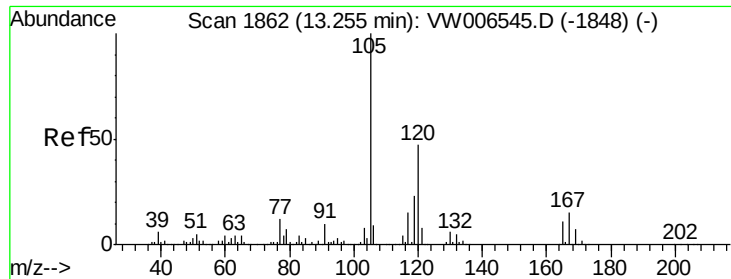


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

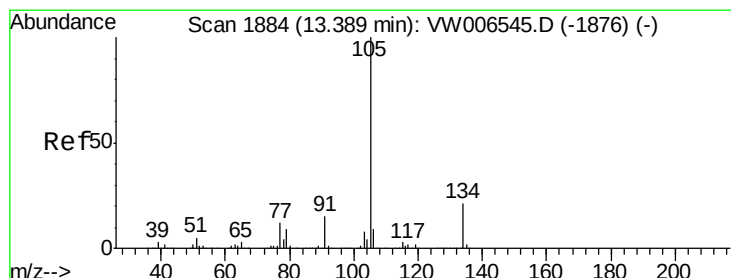
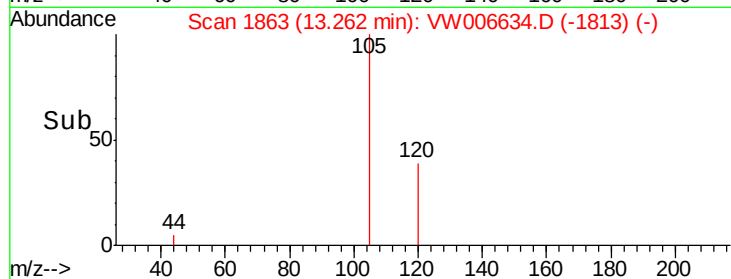
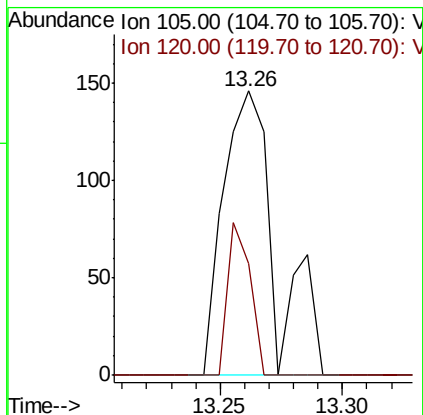
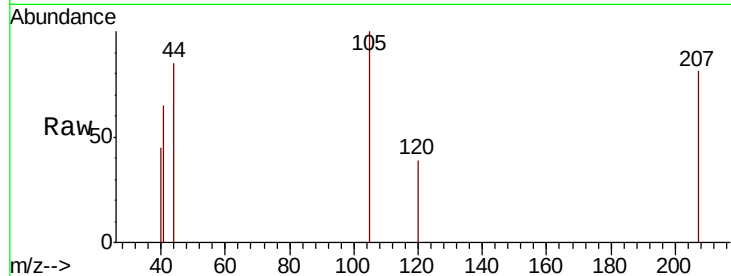




#84
 1,2,4-Trimethylbenzene
 Concen: 1.228 ug/l
 RT: 13.26 min Scan# 1863
 Delta R.T. 0.01 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

Instrument :
 MSVOA_W
 ClientSampleID :
 DL-07BRE

Tgt Ion:105 Resp: 217
 Ion Ratio Lower Upper
 105 100
 120 22.6 23.2 69.6#



#85
 sec-Butylbenzene
 Concen: 1.009 ug/l
 RT: 13.26 min Scan# 1863
 Delta R.T. -0.13 min
 Lab File: VW006634.D
 Acq: 05 Nov 2018 14:23

Tgt Ion:105 Resp: 217
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.6 31.8#

