

Data Path : W:\HPCHEM1\MSVOA_W\DATA\VW012418\
 Data File : VW000956.D
 Acq On : 24 Jan 2018 19:03
 Operator : JC/SY
 Sample : J1241-06RE
 Misc : 5.18G/5.0ML/MSVOA_W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EPE-121-2(0-5)RE

Quant Time: Jan 25 04:43:38 2018
 Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W012318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 23 13:31:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	12261	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	15986	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	8585	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.59	152	1598	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	6565	55.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.72%	
35) Dibromofluoromethane	7.88	113	1449	14.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	29.60%	
50) Toluene-d8	10.34	98	15745	40.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.56%	
62) 4-Bromofluorobenzene	12.63	95	2420	17.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	34.42%	

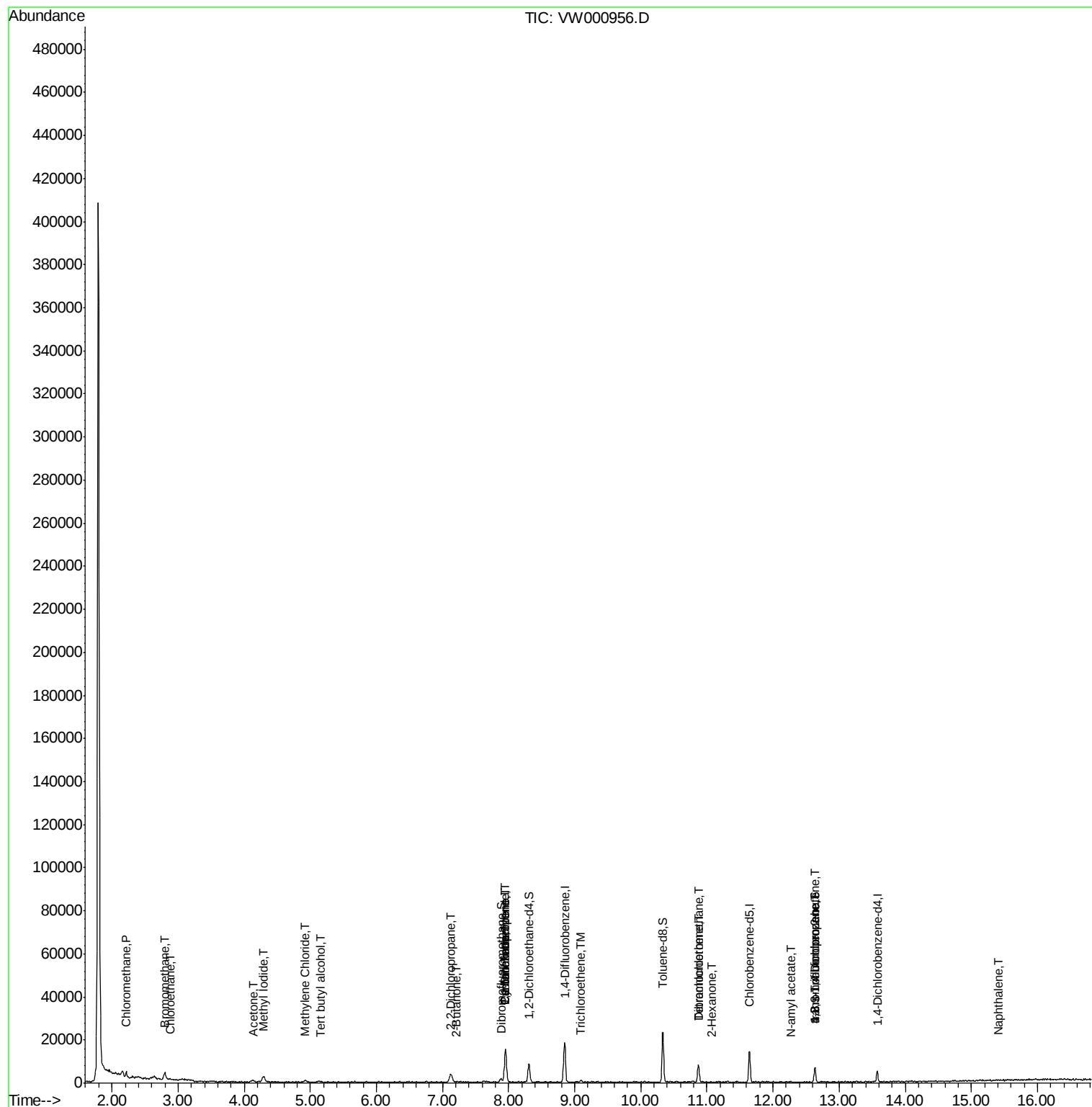
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.22	50	1766	16.90	ug/l #	84
5) Bromomethane	2.80	94	2480	36.85	ug/l #	77
6) Chloroethane	2.89	64	234	4.33	ug/l #	42
10) Methyl Iodide	4.29	142	4497	37.99	ug/l	96
11) Tert butyl alcohol	5.16	59	85	6.67	ug/l #	76
16) Acetone	4.14	43	1651	47.81	ug/l	94
20) Methylene Chloride	4.92	84	528	2.12	ug/l #	60
25) 2-Butanone	7.20	43	68	1.31	ug/l #	48
26) 2,2-Dichloropropane	7.12	77	257	1.37	ug/l #	52
31) Cyclohexane	7.95	56	373	1.95	ug/l #	53
36) 1,1-Dichloropropene	7.95	75	940	6.16	ug/l #	40
38) Carbon Tetrachloride	7.95	117	1233	7.33	ug/l #	12
44) Trichloroethene	9.09	130	384	3.12	ug/l #	1
59) 2-Hexanone	11.07	43	59	15.43	ug/l #	24
60) Dibromochloromethane	10.88	129	1510	14.48	ug/l #	11
64) Tetrachloroethene	10.87	164	2040	28.63	ug/l #	88
74) N-amyl acetate	12.27	43	41	1.64	ug/l #	41
76) 1,2,3-Trichloropropane	12.63	75	1296	70.09	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	1296	164.42	ug/l #	10
95) Naphthalene	15.40	128	100	1.35	ug/l #	69

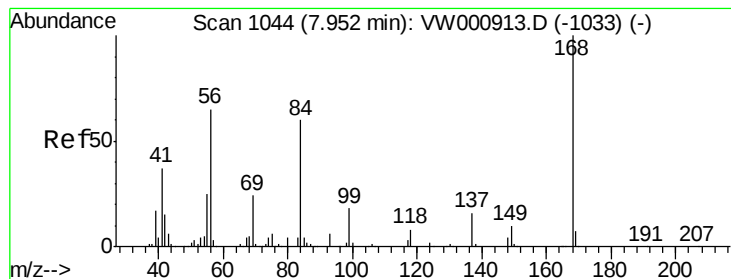
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

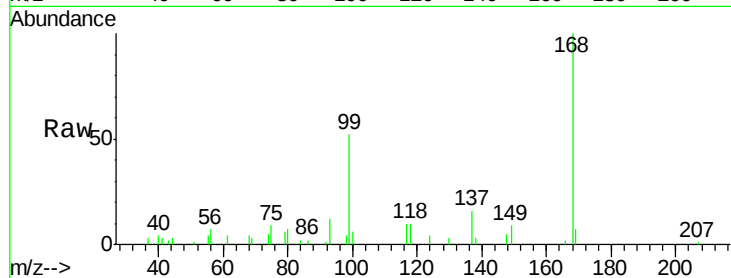
EPE-121-2(0-5)RE

Tgt Ion:168 Resp: 12261

Ion Ratio Lower Upper

168 100

99 52.0 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

6000

5000

4000

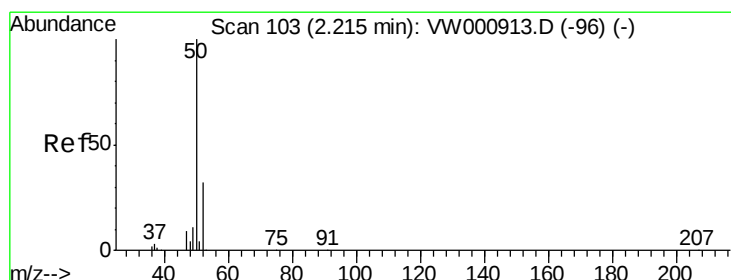
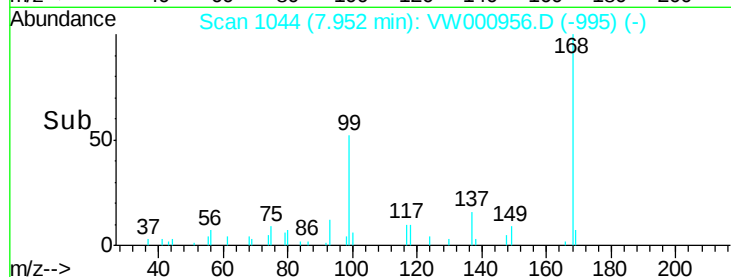
3000

2000

1000

0

Time-->



#3

Chloromethane

Concen: 16.90 ug/l

RT: 2.22 min Scan# 103

Delta R.T. 0.00 min

Lab File: VW000956.D

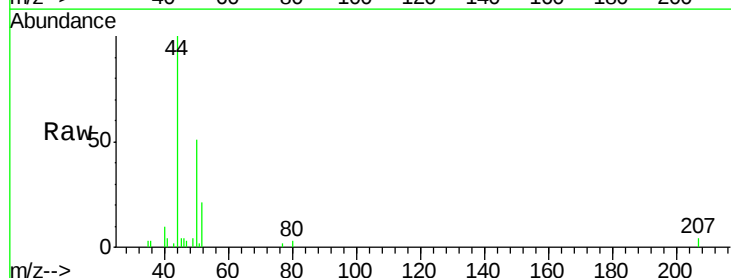
Acq: 24 Jan 2018 19:03

Tgt Ion: 50 Resp: 1766

Ion Ratio Lower Upper

50 100

52 40.8 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.22

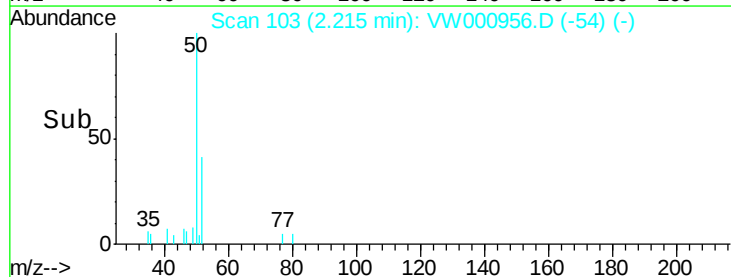
1500

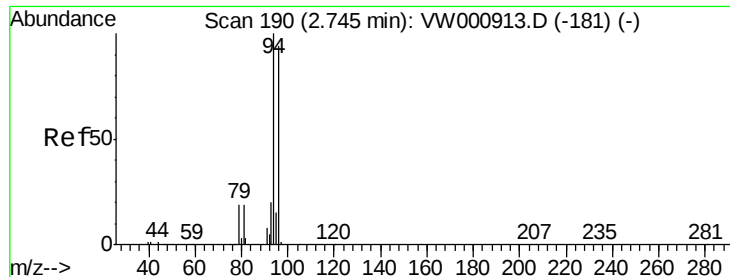
1000

500

0

Time-->





#5

Bromomethane

Concen: 36.85 ug/l

RT: 2.80 min Scan# 199

Delta R.T. 0.06 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

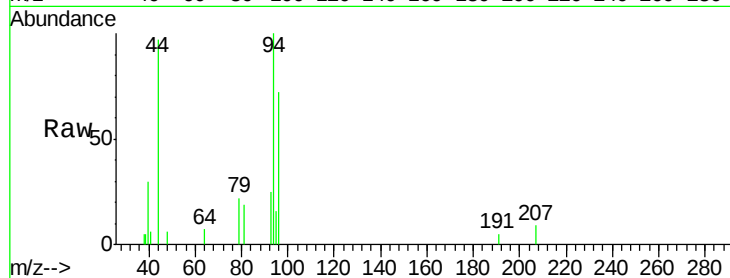
EPE-121-2(0-5)RE

Tgt Ion: 94 Resp: 2480

Ion Ratio Lower Upper

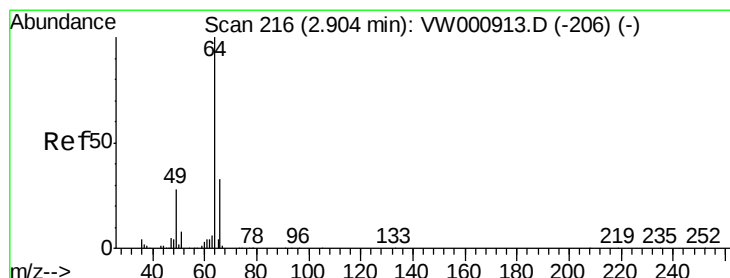
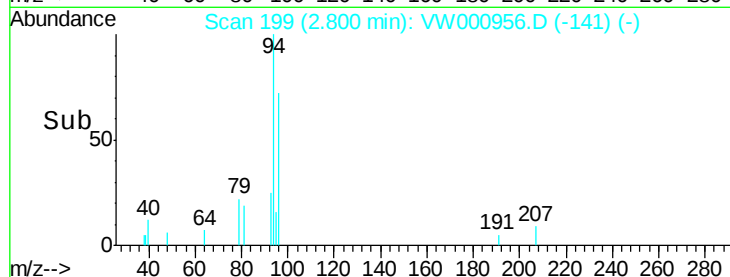
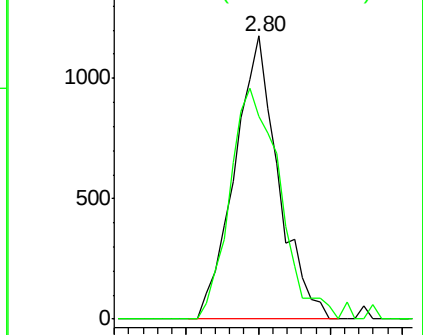
94 100

96 71.7 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 4.33 ug/l

RT: 2.89 min Scan# 213

Delta R.T. -0.02 min

Lab File: VW000956.D

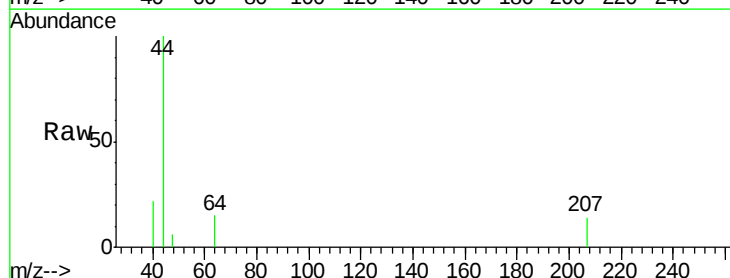
Acq: 24 Jan 2018 19:03

Tgt Ion: 64 Resp: 234

Ion Ratio Lower Upper

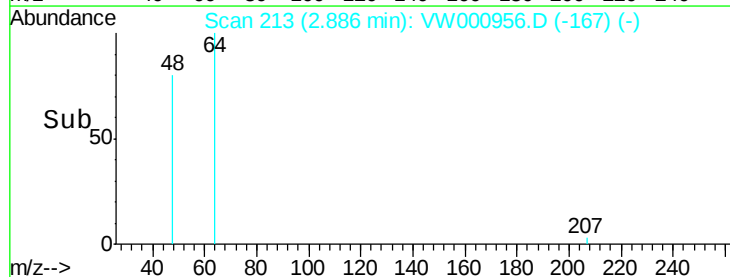
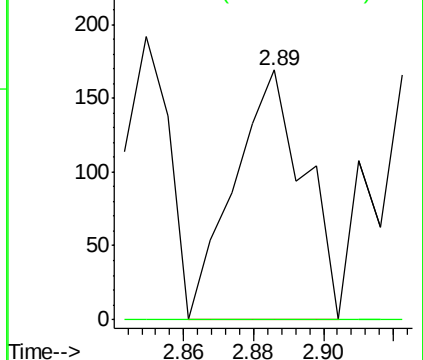
64 100

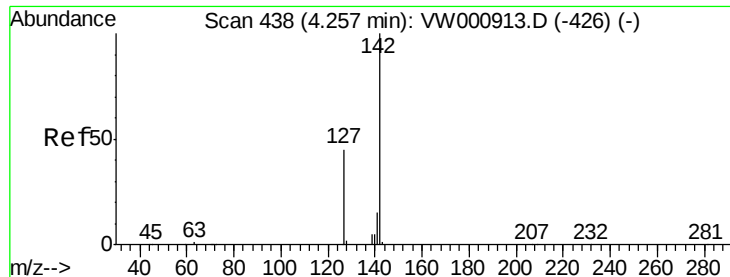
66 0.0 26.1 39.1#



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW

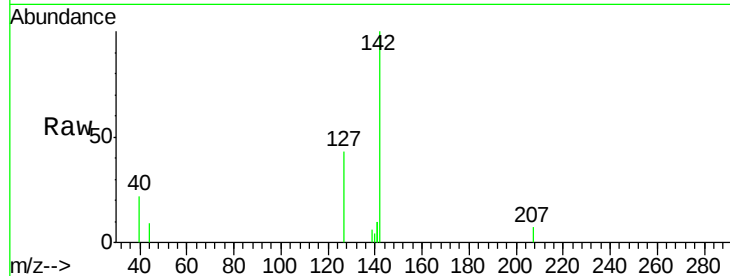




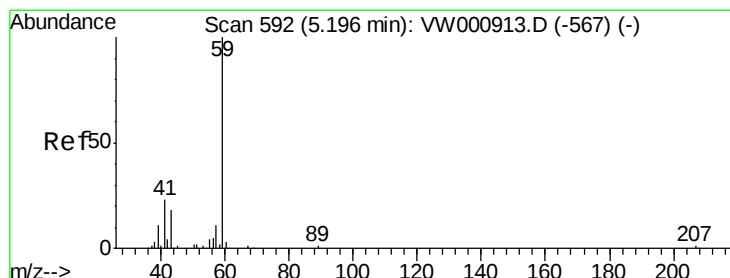
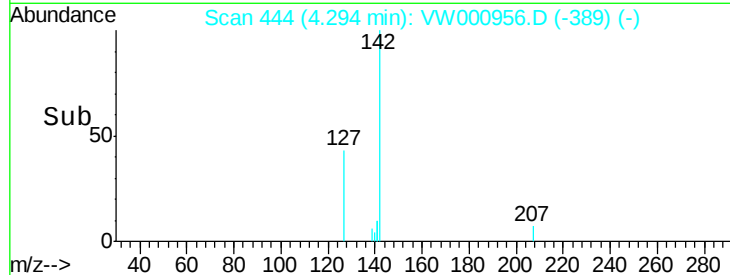
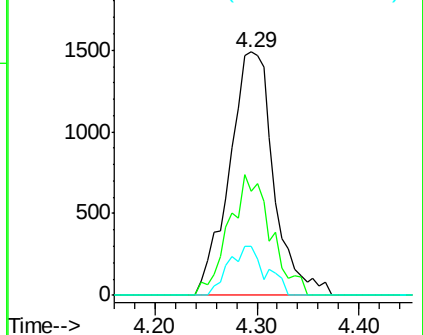
#10
Methyl Iodide
Concen: 37.99 ug/l
RT: 4.29 min Scan# 444
Delta R.T. 0.04 min
Lab File: VW000956.D
Acq: 24 Jan 2018 19:03

Instrument :
MSVOA_W
ClientSampleId :
EPE-121-2(0-5)RE

Tgt Ion:142 Resp: 4497
Ion Ratio Lower Upper
142 100
127 46.9 35.5 53.3
141 16.9 11.7 17.5

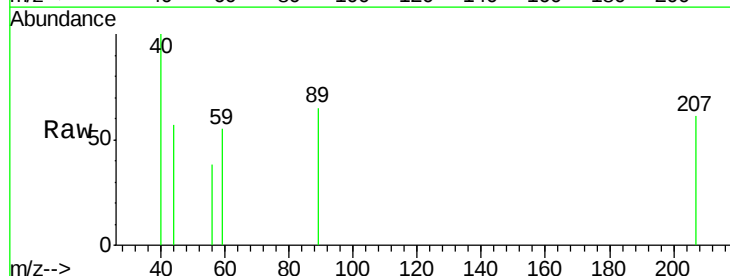


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

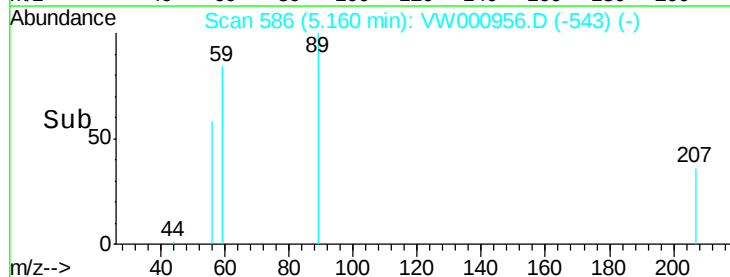
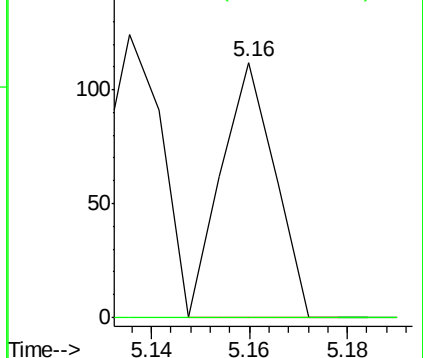


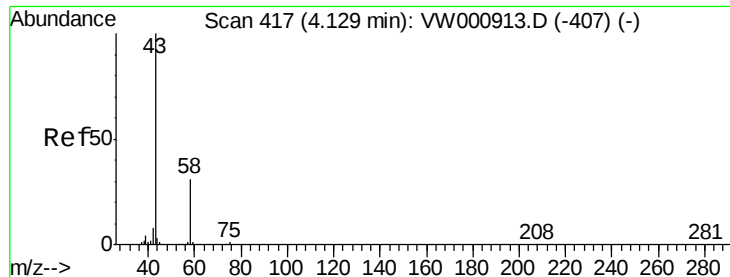
#11
Tert butyl alcohol
Concen: 6.67 ug/l
RT: 5.16 min Scan# 586
Delta R.T. -0.04 min
Lab File: VW000956.D
Acq: 24 Jan 2018 19:03

Tgt Ion: 59 Resp: 85
Ion Ratio Lower Upper
59 100
57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VW
Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 47.81 ug/l

RT: 4.14 min Scan# 418

Delta R.T. 0.01 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

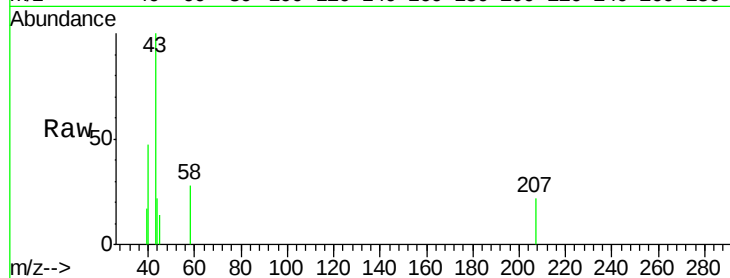
EPE-121-2(0-5)RE

Tgt Ion: 43 Resp: 1651

Ion Ratio Lower Upper

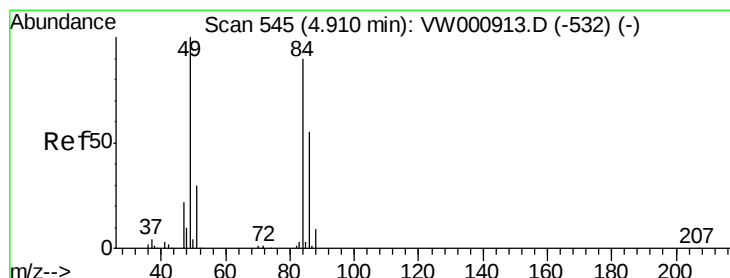
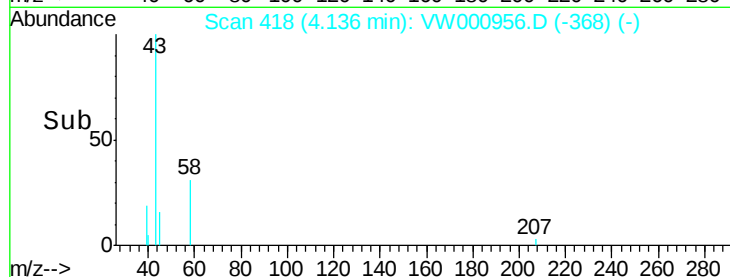
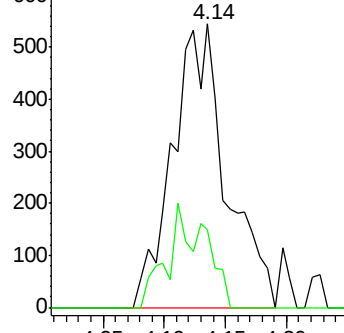
43 100

58 27.6 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 2.12 ug/l

RT: 4.92 min Scan# 547

Delta R.T. 0.01 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Tgt Ion: 84 Resp: 528

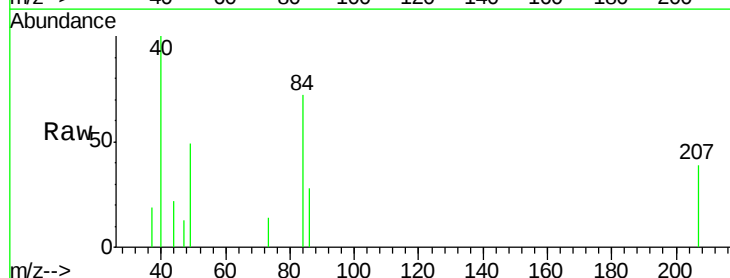
Ion Ratio Lower Upper

84 100

49 68.3 89.0 133.4#

51 0.0 26.7 40.1#

86 39.1 48.7 73.1#

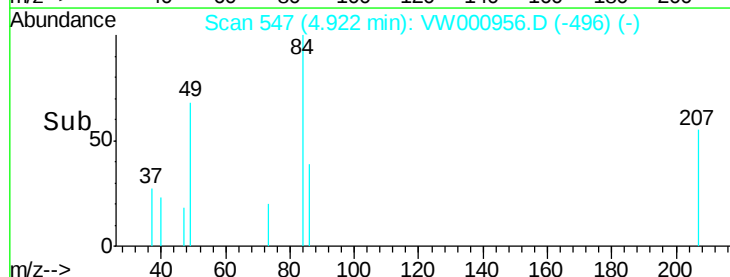
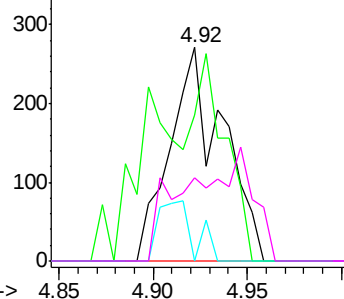


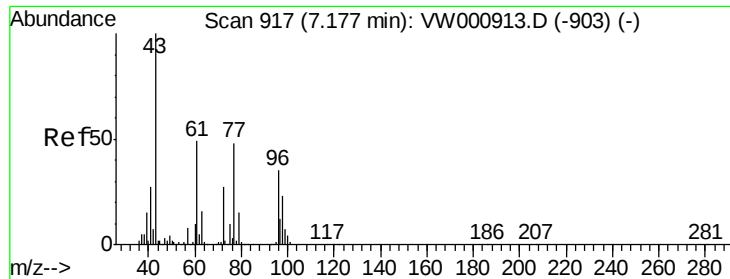
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 1.31 ug/l

RT: 7.20 min Scan# 921

Delta R.T. 0.02 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

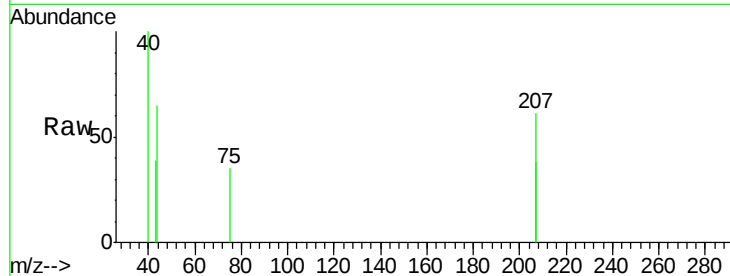
EPE-121-2(0-5)RE

Tgt Ion: 43 Resp: 68

Ion Ratio Lower Upper

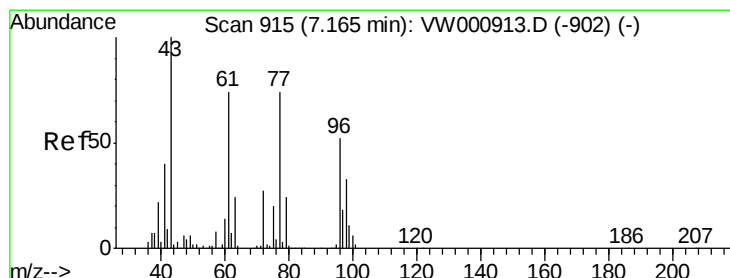
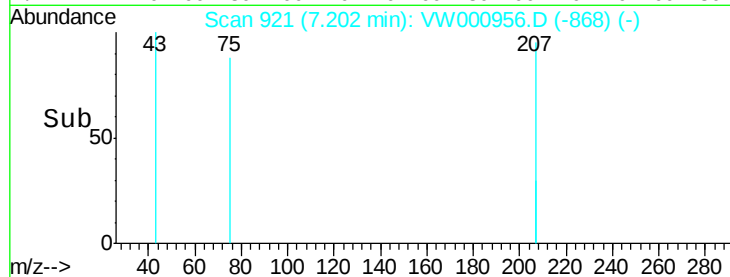
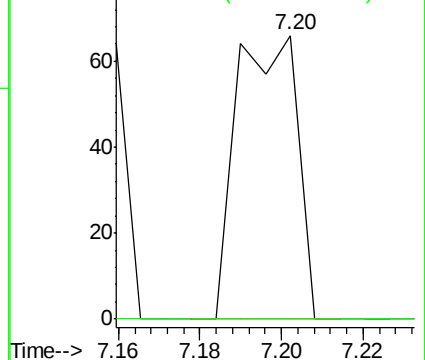
43 100

72 0.0 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#26

2,2-Dichloropropane

Concen: 1.37 ug/l

RT: 7.12 min Scan# 908

Delta R.T. -0.04 min

Lab File: VW000956.D

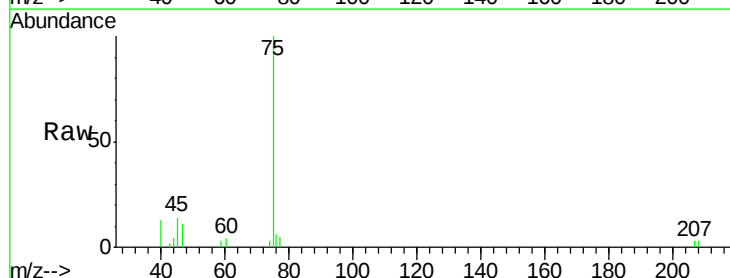
Acq: 24 Jan 2018 19:03

Tgt Ion: 77 Resp: 257

Ion Ratio Lower Upper

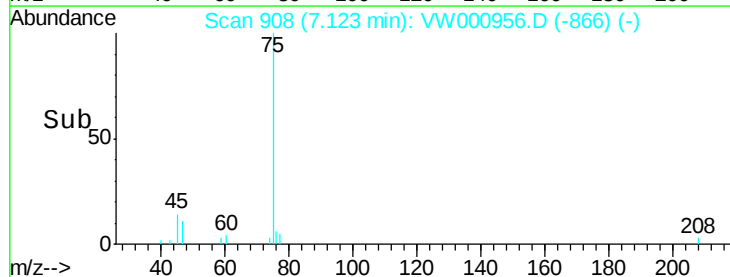
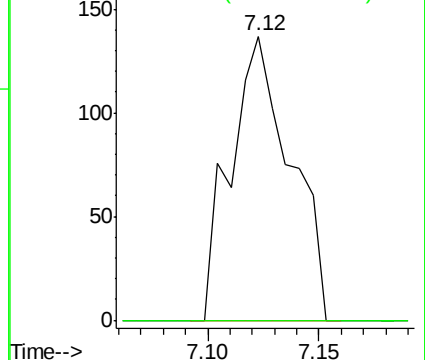
77 100

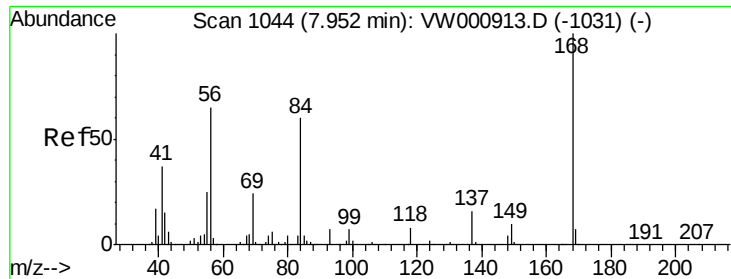
97 0.0 11.8 35.3#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

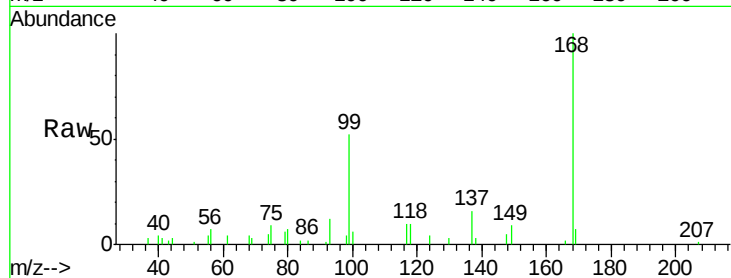




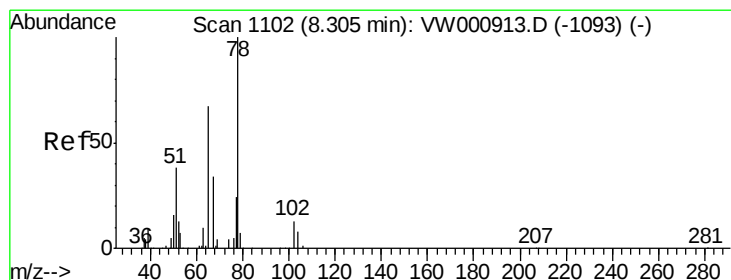
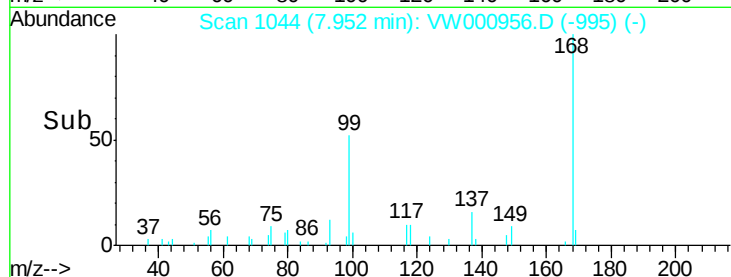
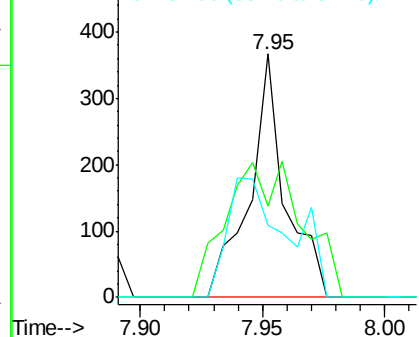
#31
Cyclohexane
Concen: 1.95 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VW000956.D
Acq: 24 Jan 2018 19:03

Instrument :
MSVOA_W
ClientSampleId :
EPE-121-2(0-5)RE

Tgt Ion: 56 Resp: 373
Ion Ratio Lower Upper
56 100
69 37.6 29.2 43.8
84 29.7 73.6 110.4#

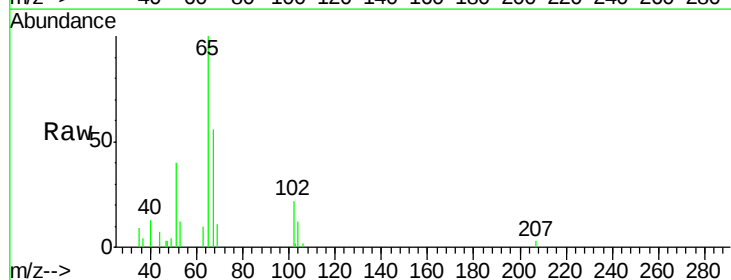


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

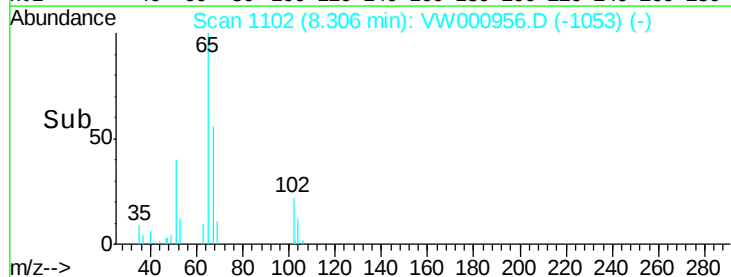
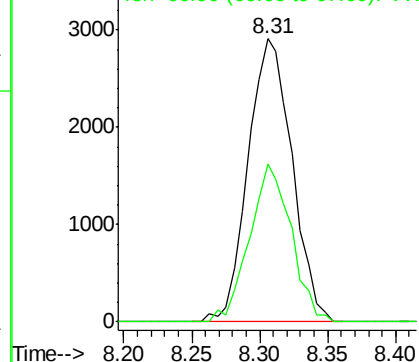


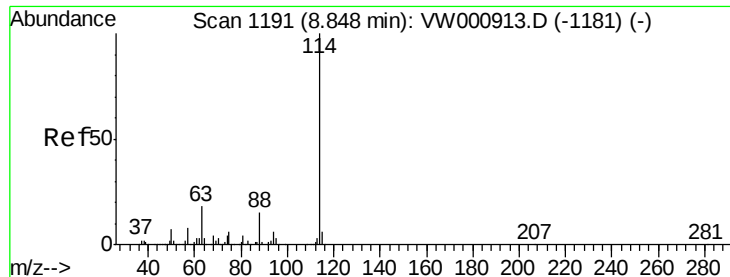
#33
1,2-Dichloroethane-d4
Concen: 55.86 ug/l
RT: 8.31 min Scan# 1102
Delta R.T. 0.00 min
Lab File: VW000956.D
Acq: 24 Jan 2018 19:03

Tgt Ion: 65 Resp: 6565
Ion Ratio Lower Upper
65 100
67 52.9 0.0 105.8



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

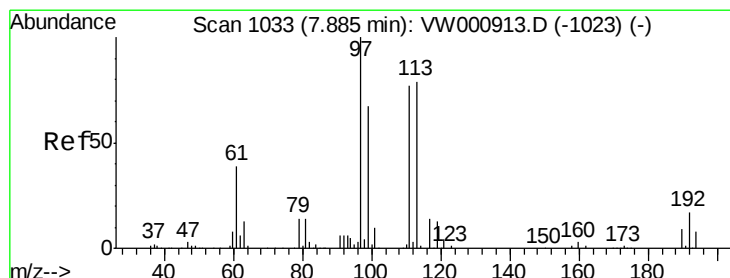
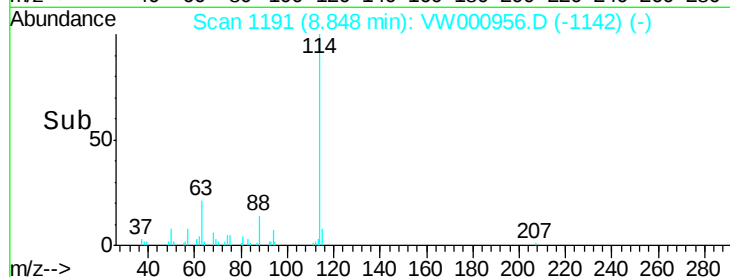
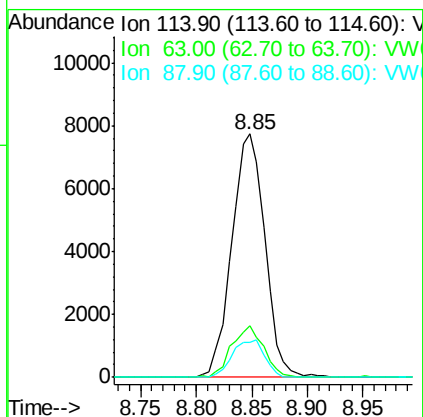
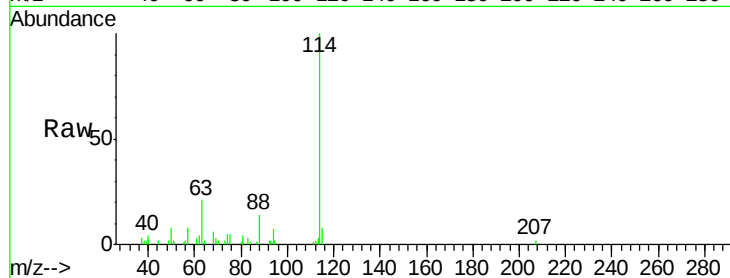




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW000956.D
 Acq: 24 Jan 2018 19:03

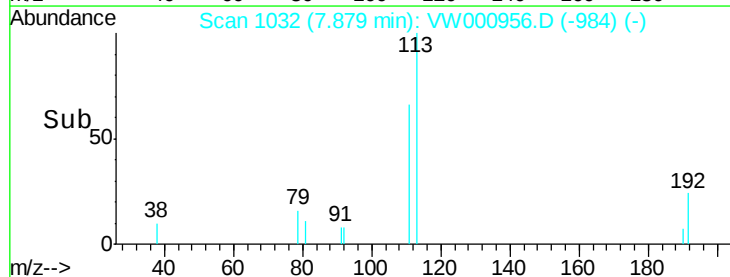
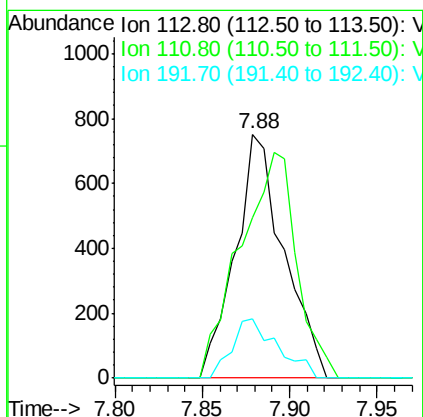
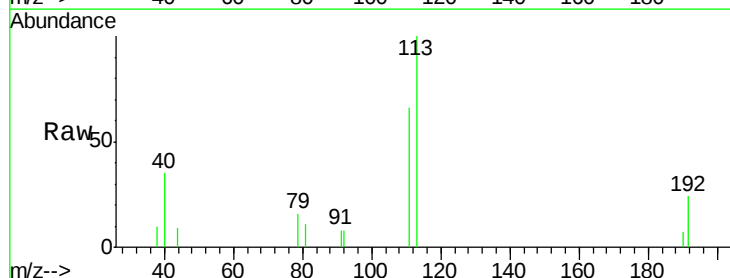
Instrument :
 MSVOA_W
 ClientSampleId :
 EPE-121-2(0-5)RE

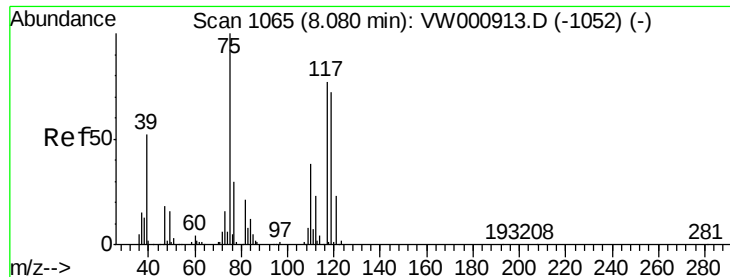
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	36.8
88	14.2	0.0	29.8



#35
 Dibromofluoromethane
 Concen: 14.80 ug/l
 RT: 7.88 min Scan# 1032
 Delta R.T. -0.01 min
 Lab File: VW000956.D
 Acq: 24 Jan 2018 19:03

Tgt Ion	Ratio	Lower	Upper
113	100		
111	108.4	80.4	120.6
192	22.8	17.0	25.4





#36

1,1-Dichloropropene

Concen: 6.16 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.13 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

EPE-121-2(0-5)RE

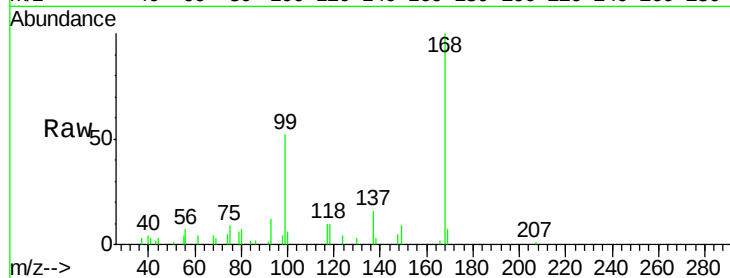
Tgt Ion: 75 Resp: 940

Ion Ratio Lower Upper

75 100

110 0.0 18.6 56.0#

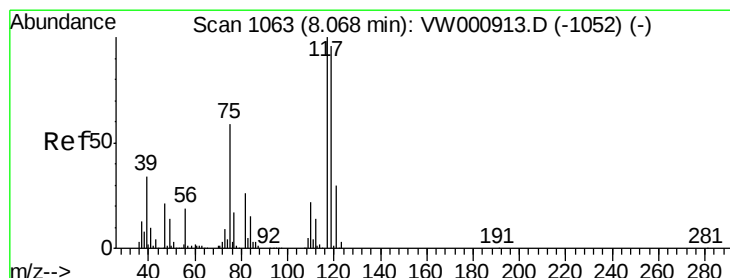
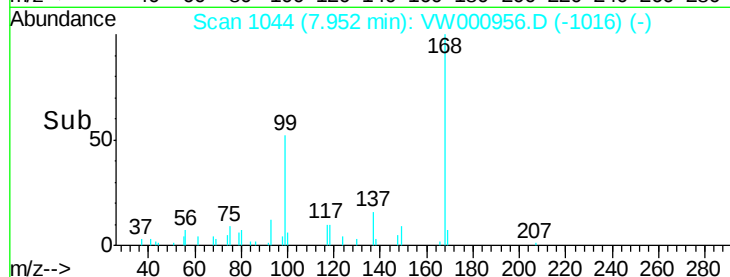
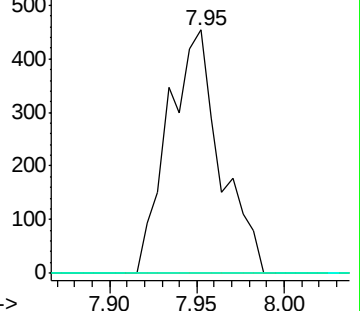
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 7.33 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.12 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

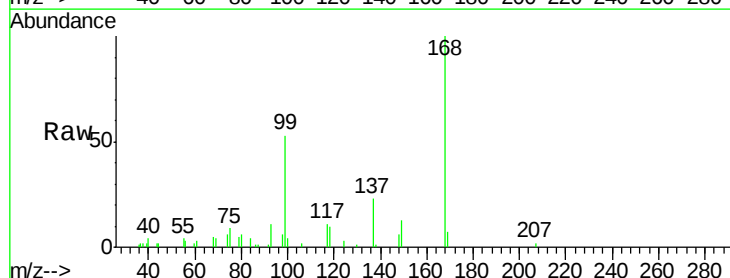
Tgt Ion: 117 Resp: 1233

Ion Ratio Lower Upper

117 100

119 0.0 76.5 114.7#

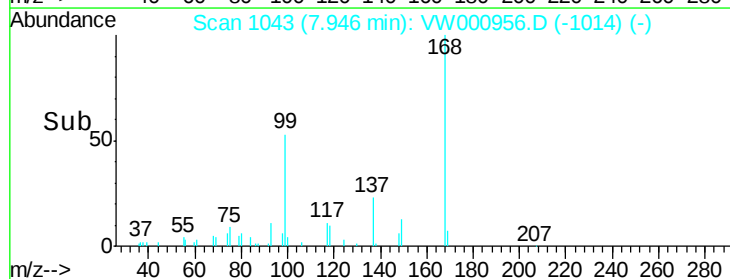
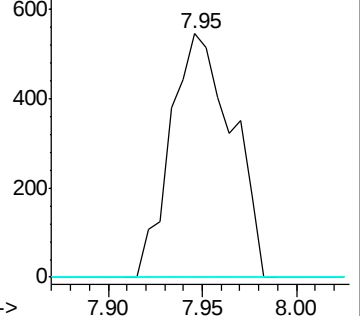
121 0.0 24.3 36.5#

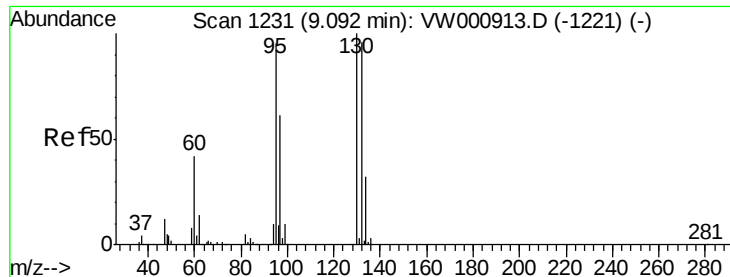


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 3.12 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

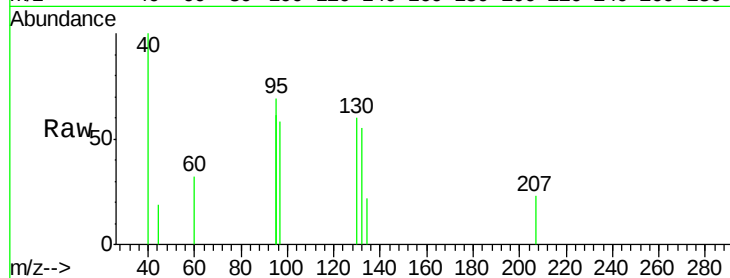
EPE-121-2(0-5)RE

Tgt Ion:130 Resp: 384

Ion Ratio Lower Upper

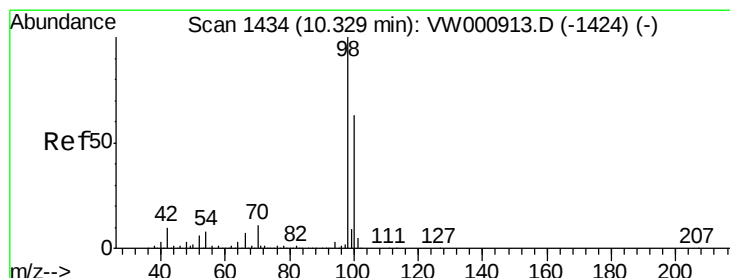
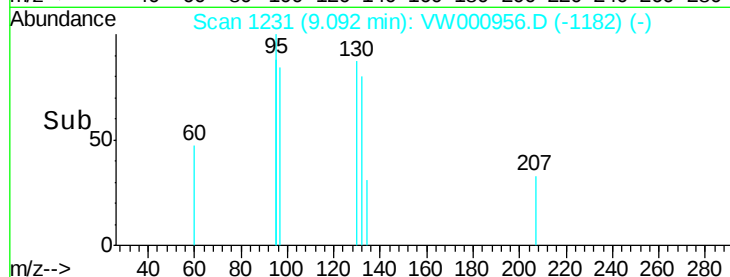
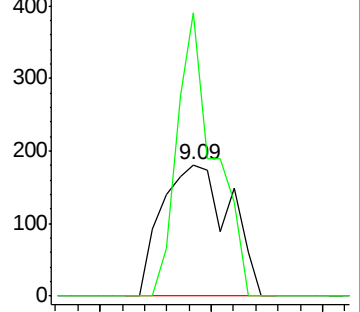
130 100

95 215.5 0.0 190.4#



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 40.78 ug/l

RT: 10.34 min Scan# 1435

Delta R.T. 0.01 min

Lab File: VW000956.D

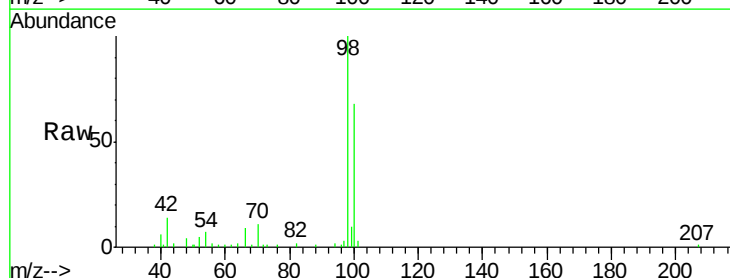
Acq: 24 Jan 2018 19:03

Tgt Ion: 98 Resp: 15745

Ion Ratio Lower Upper

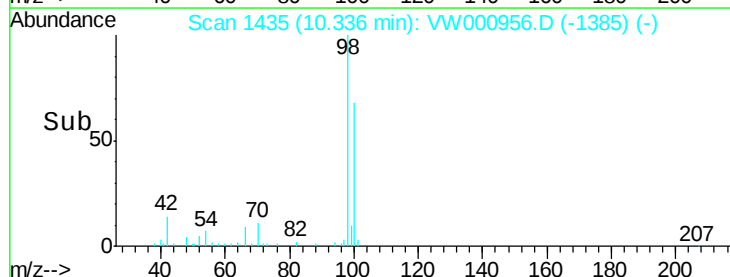
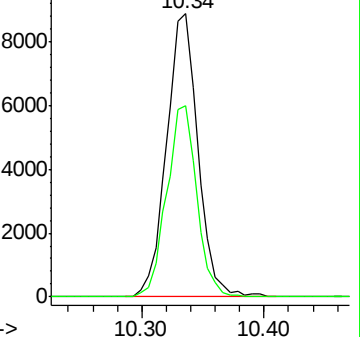
98 100

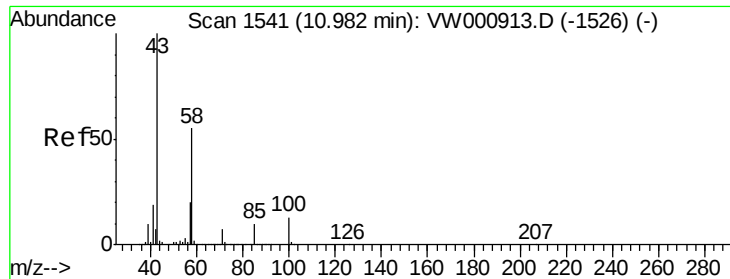
100 64.5 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#59

2-Hexanone

Concen: 15.43 ug/l

RT: 11.07 min Scan# 1556

Delta R.T. 0.09 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

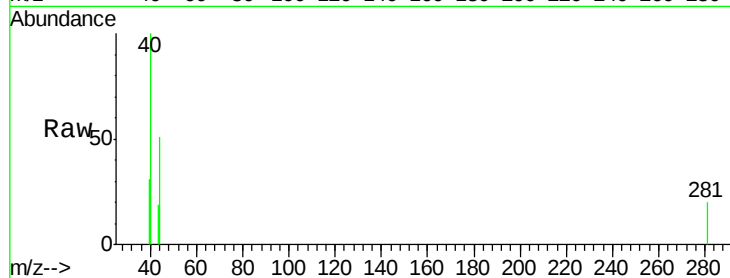
EPE-121-2(0-5)RE

Tgt Ion: 43 Resp: 59

Ion Ratio Lower Upper

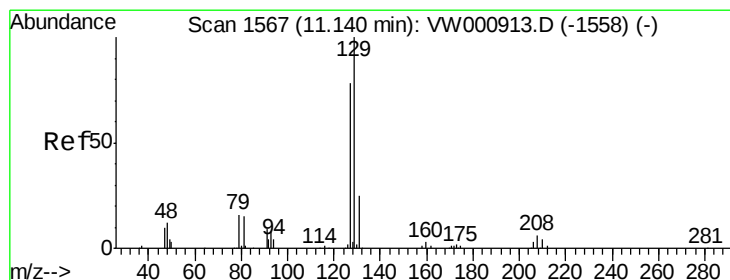
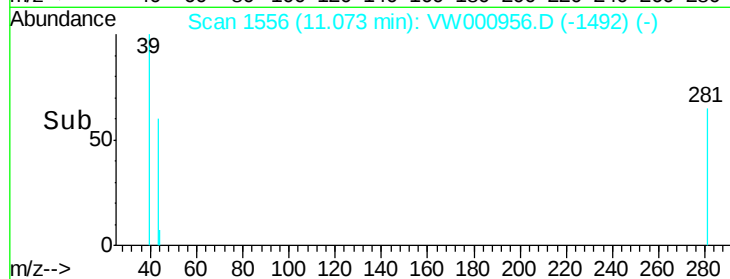
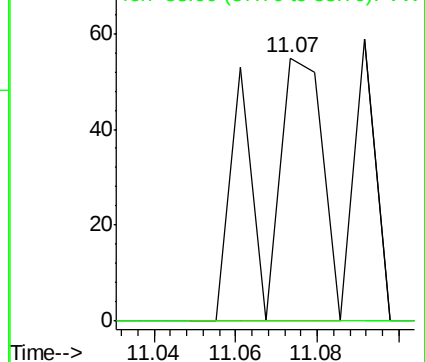
43 100

58 0.0 27.4 82.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#60

Dibromochloromethane

Concen: 14.48 ug/l

RT: 10.88 min Scan# 1524

Delta R.T. -0.26 min

Lab File: VW000956.D

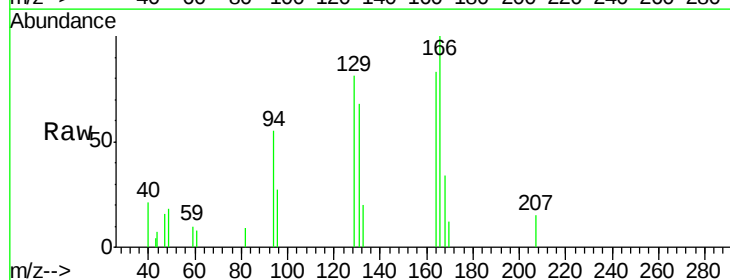
Acq: 24 Jan 2018 19:03

Tgt Ion: 129 Resp: 1510

Ion Ratio Lower Upper

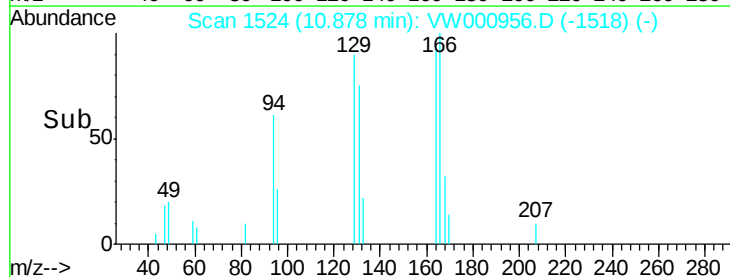
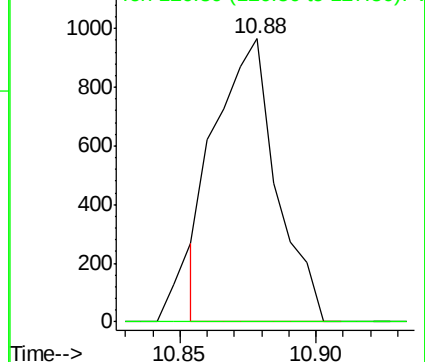
129 100

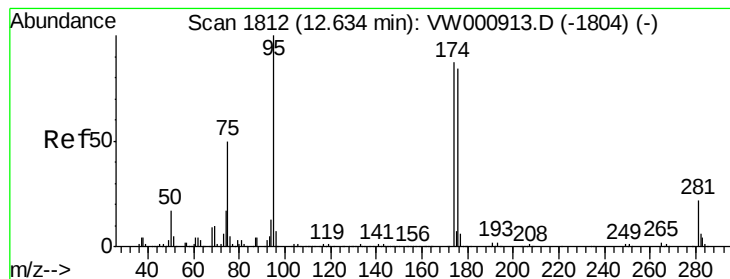
127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 17.21 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. 0.00 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

EPE-121-2(0-5)RE

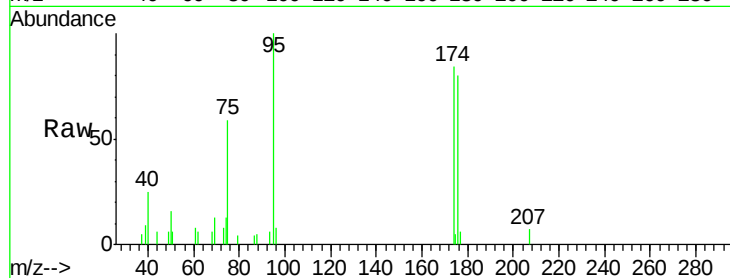
Tgt Ion: 95 Resp: 2420

Ion Ratio Lower Upper

95 100

174 82.2 0.0 176.8

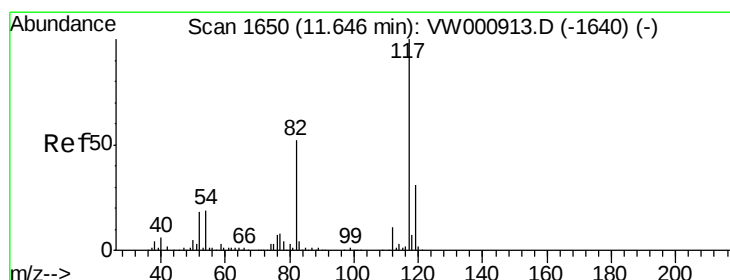
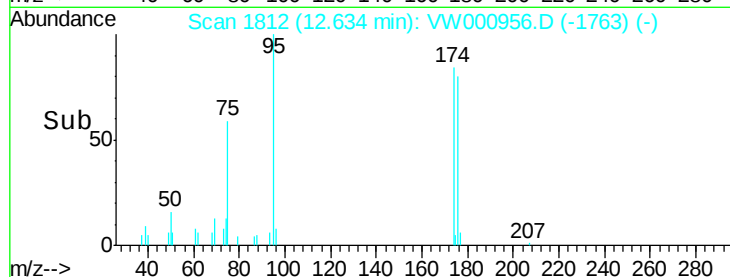
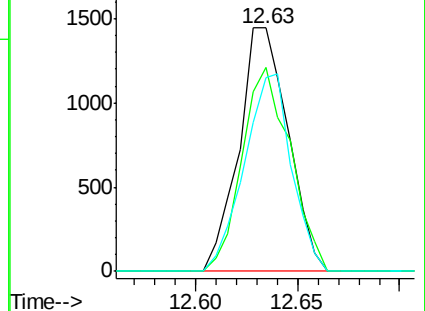
176 78.2 0.0 171.8



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: 50.00 ug/l

RT: 11.65 min Scan# 1650

Delta R.T. 0.00 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

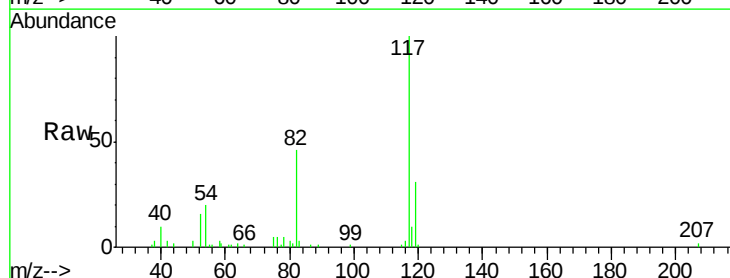
Tgt Ion: 117 Resp: 8585

Ion Ratio Lower Upper

117 100

82 46.0 41.8 62.6

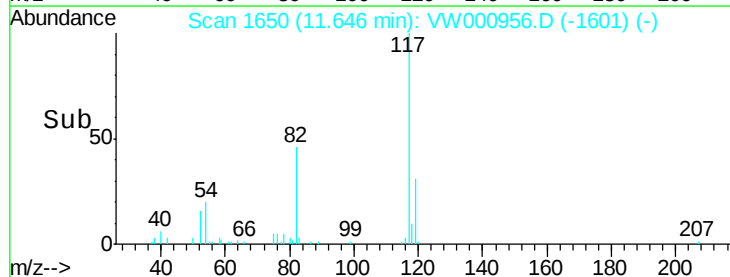
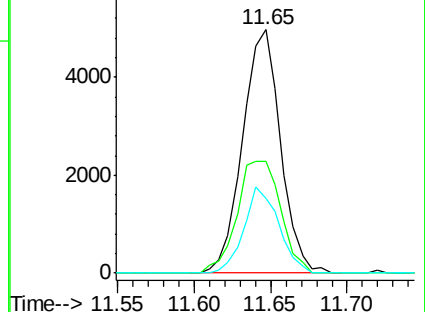
119 30.8 25.2 37.8

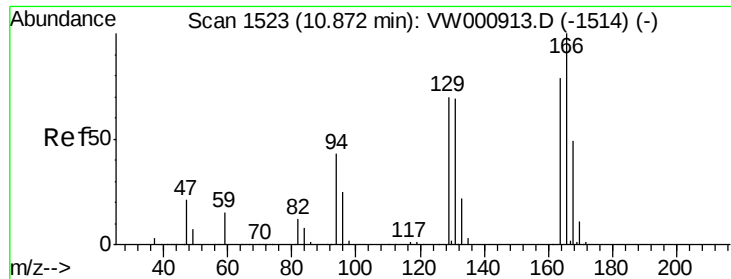


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#64

Tetrachloroethene

Concen: 28.63 ug/l

RT: 10.87 min Scan# 1523

Delta R.T. 0.00 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

EPE-121-2(0-5)RE

Tgt Ion:164 Resp: 2040

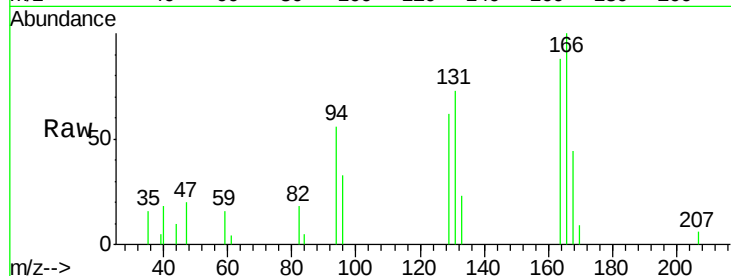
Ion Ratio Lower Upper

164 100

166 113.1 100.9 151.3

129 69.7 70.5 105.7#

131 82.0 69.4 104.2

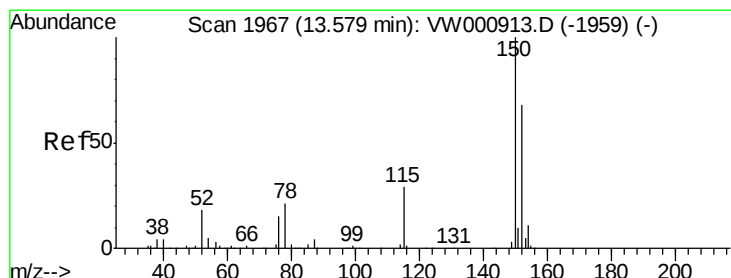
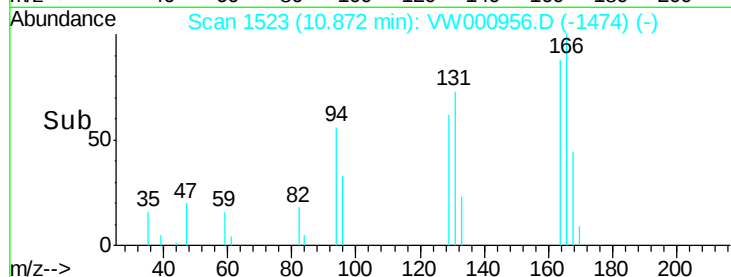
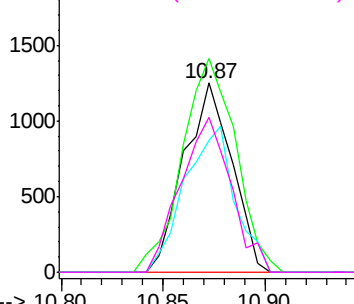


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.59 min Scan# 1968

Delta R.T. 0.01 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

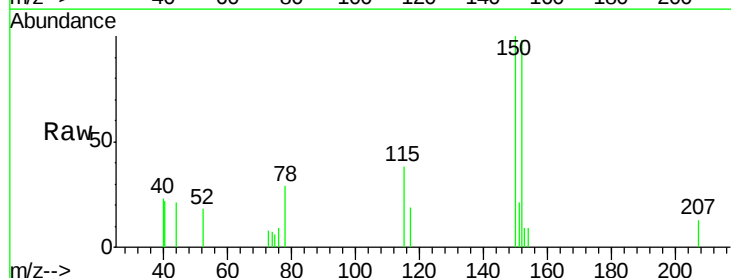
Tgt Ion:152 Resp: 1598

Ion Ratio Lower Upper

152 100

115 57.6 28.5 85.5

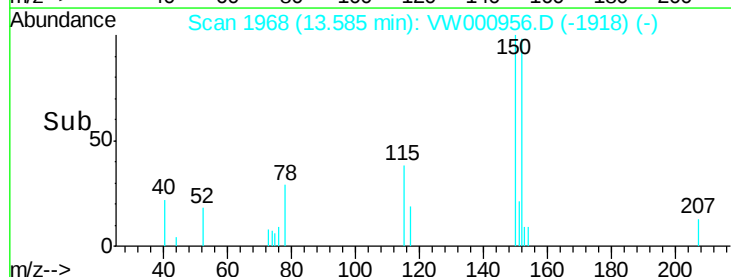
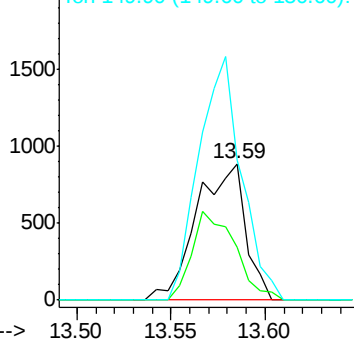
150 155.6 0.0 342.0

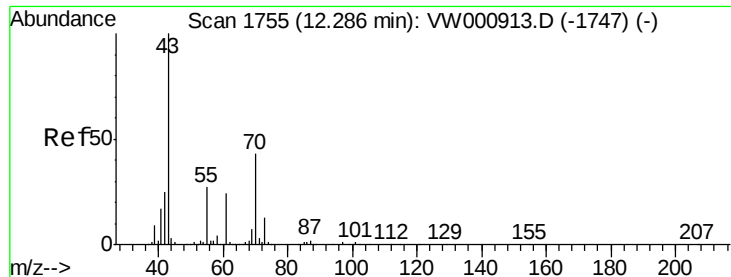


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 1.64 ug/l

RT: 12.27 min Scan# 1752

Delta R.T. -0.02 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

EPE-121-2(0-5)RE

Tgt Ion: 43 Resp: 41

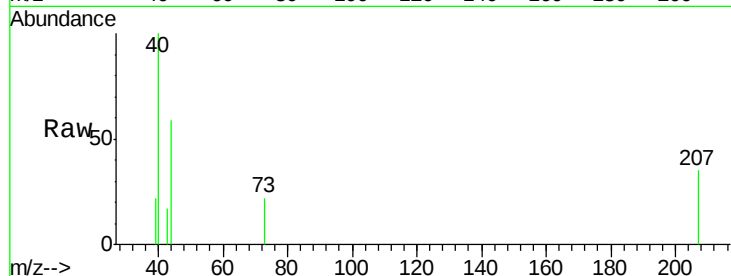
Ion Ratio Lower Upper

43 100

70 0.0 35.8 53.8#

55 0.0 21.4 32.2#

61 0.0 19.5 29.3#

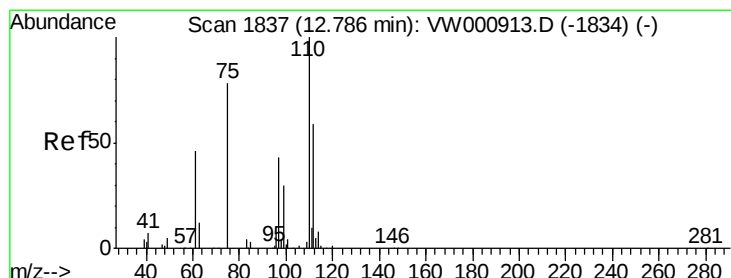
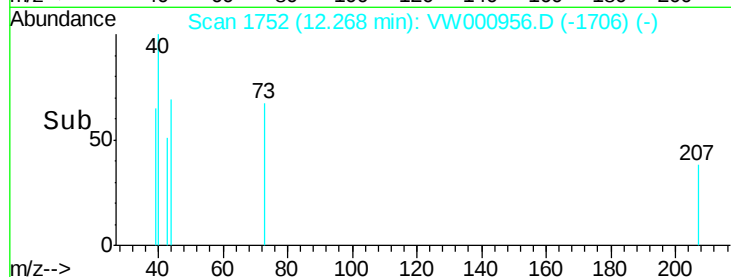
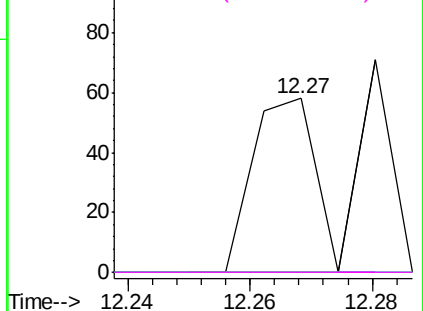


Abundance Ion 43.00 (42.70 to 43.70): VW

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: 70.09 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. -0.15 min

Lab File: VW000956.D

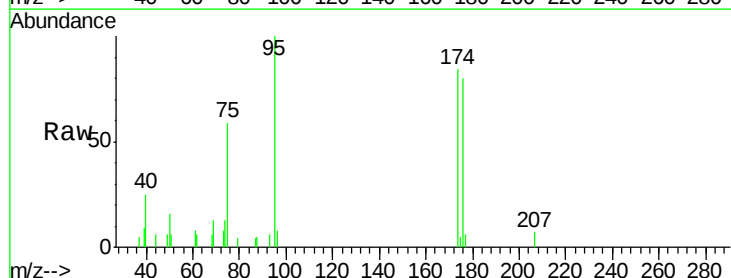
Acq: 24 Jan 2018 19:03

Tgt Ion: 75 Resp: 1296

Ion Ratio Lower Upper

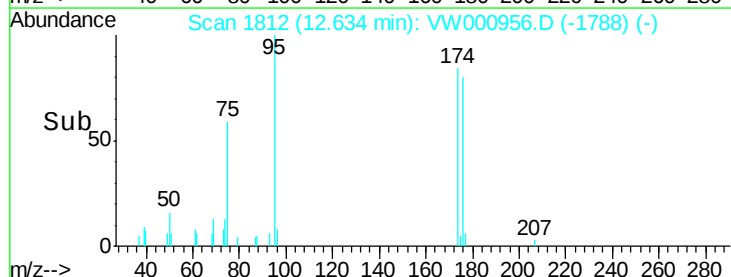
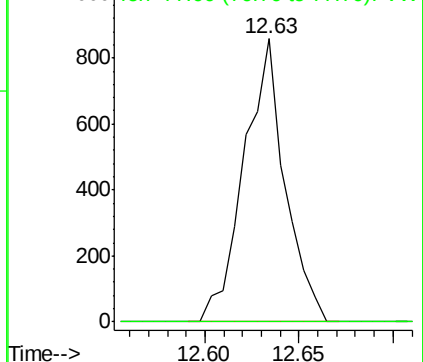
75 100

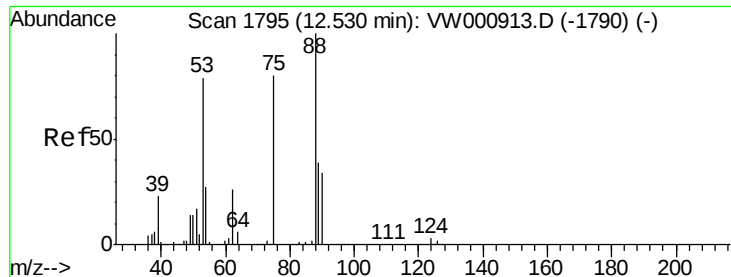
77 0.0 0.0 0.0



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: 164.42 ug/l

RT: 12.63 min Scan# 1812

Delta R.T. 0.10 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Instrument :

MSVOA_W

ClientSampleId :

EPE-121-2(0-5)RE

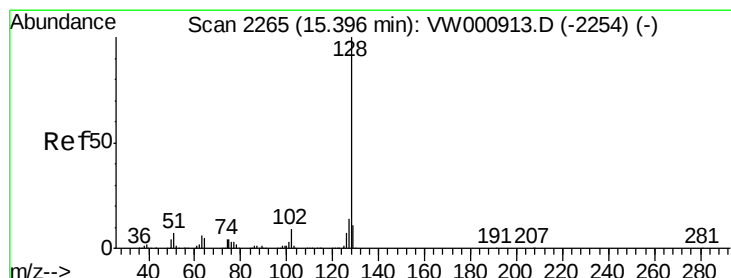
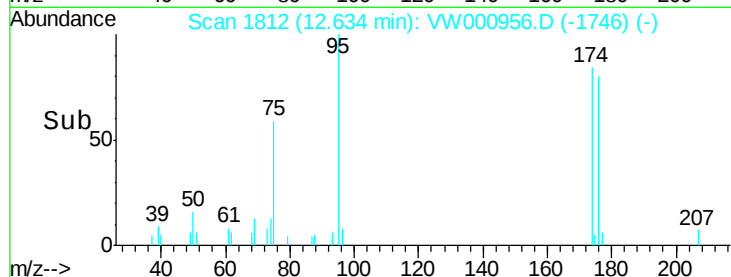
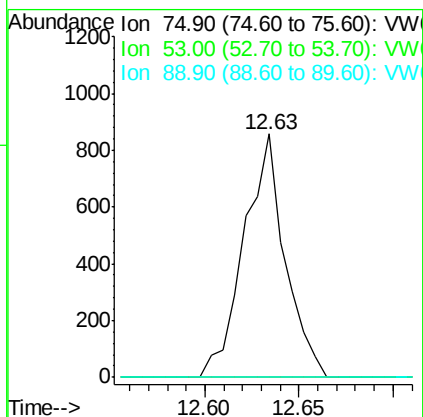
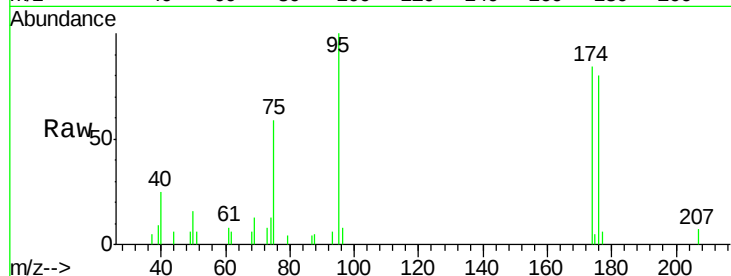
Tgt Ion: 75 Resp: 1296

Ion Ratio Lower Upper

75 100

53 0.0 77.5 116.3#

89 0.0 38.2 57.4#



#95

Naphthalene

Concen: 1.35 ug/l

RT: 15.40 min Scan# 2266

Delta R.T. 0.01 min

Lab File: VW000956.D

Acq: 24 Jan 2018 19:03

Tgt Ion: 128 Resp: 100

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.7 13.1#

