

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091718\
 Data File : VW005444.D
 Acq On : 17 Sep 2018 19:43
 Operator : SY/AP
 Sample : J4960-01RE
 Misc : 5.17G/5ML/MSVOA_W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S1RE

Quant Time: Sep 18 01:04:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091618S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 15 02:32:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	208413	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	321674	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	260996	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	85236	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	93665	43.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.60%	
35) Dibromofluoromethane	7.89	113	72076	39.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.92%	
50) Toluene-d8	10.33	98	288629	34.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.88%	
62) 4-Bromofluorobenzene	12.62	95	81912	27.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	54.10%	

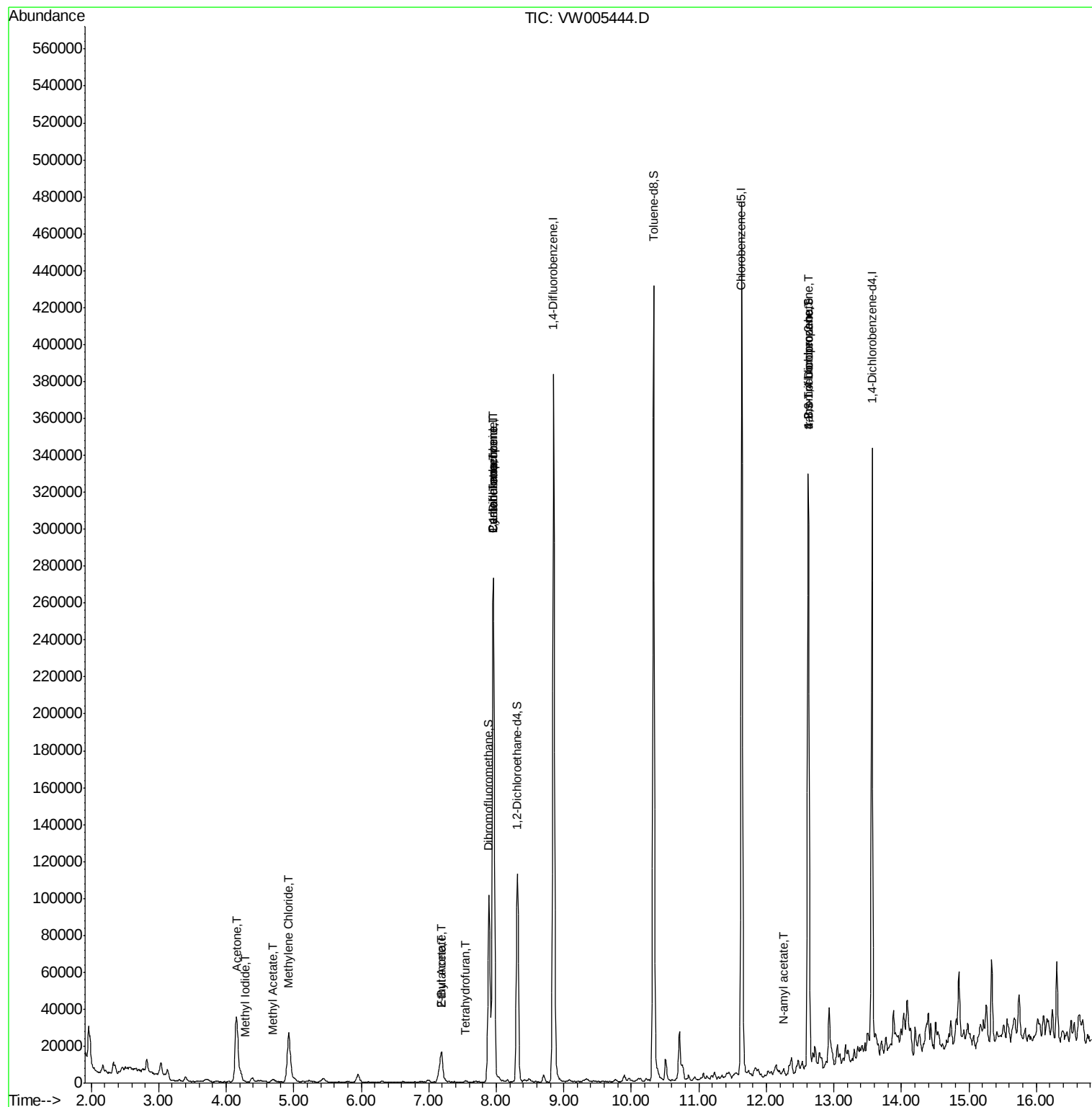
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	110	Below Cal	#	42
5) Bromomethane	2.78	94	147	Below Cal		97
10) Methyl Iodide	4.28	142	70	4.080	ug/l #	38
11) Tert butyl alcohol	5.23	59	2059	Below Cal	#	71
16) Acetone	4.15	43	73440	234.984	ug/l	98
18) Methyl Acetate	4.68	43	3128	3.009	ug/l	95
20) Methylene Chloride	4.93	84	19475	3.766	ug/l	96
25) 2-Butanone	7.19	43	25978	49.919	ug/l	91
29) Tetrahydrofuran	7.56	42	466	1.406	ug/l #	54
31) Cyclohexane	7.96	56	4757	1.378	ug/l #	4
36) 1,1-Dichloropropene	7.96	75	16449	5.403	ug/l #	51
37) Ethyl Acetate	7.19	43	25978	20.984	ug/l #	68
38) Carbon Tetrachloride	7.96	117	20701	6.526	ug/l #	17
74) N-amyl acetate	12.26	43	1537	1.220	ug/l #	56
76) 1,2,3-Trichloropropane	12.62	75	43304	61.771	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	43304	160.237	ug/l #	9

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

Instrument :

MSVOA_W

ClientSampleId :

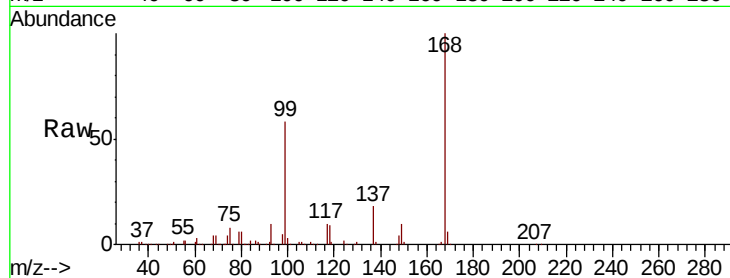
S1RE

Tgt Ion:168 Resp: 208413

Ion Ratio Lower Upper

168 100

99 58.0 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.96

100000

80000

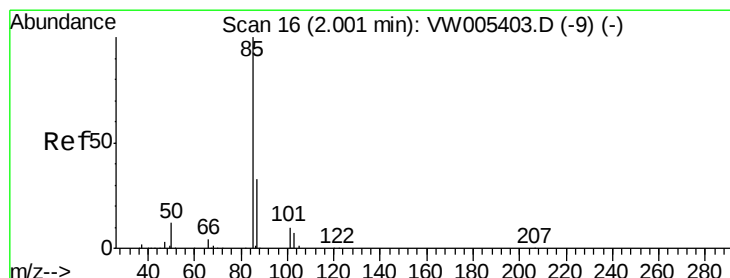
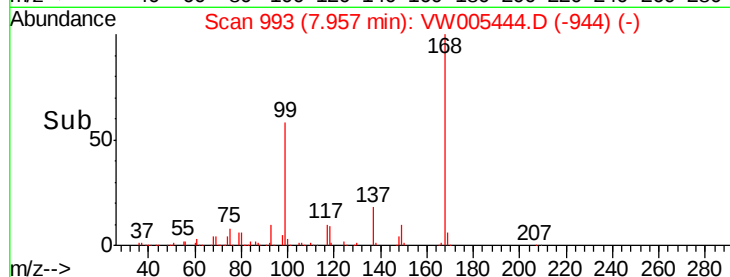
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. 0.01 min

Lab File: VW005444.D

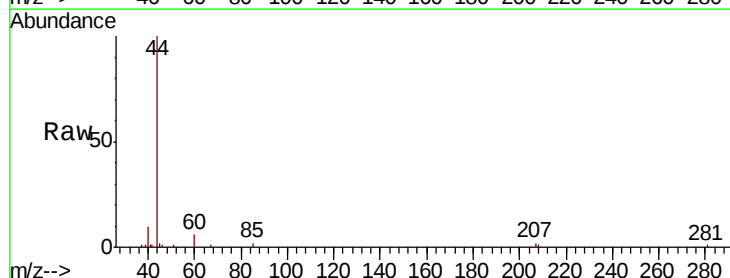
Acq: 17 Sep 2018 19:43

Tgt Ion: 85 Resp: 110

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

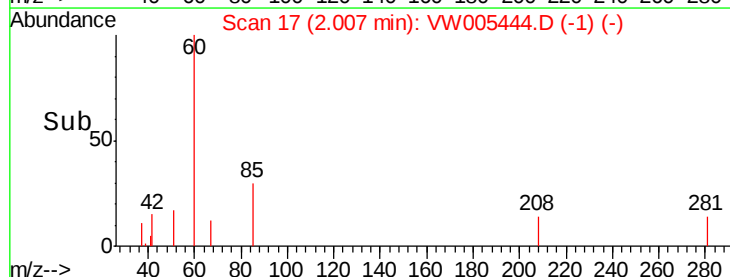
150

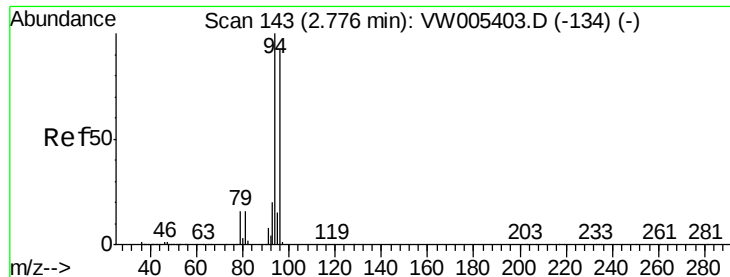
100

50

0

Time--> 1.98 2.00 2.02





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

Instrument :

MSVOA_W

ClientSampleId :

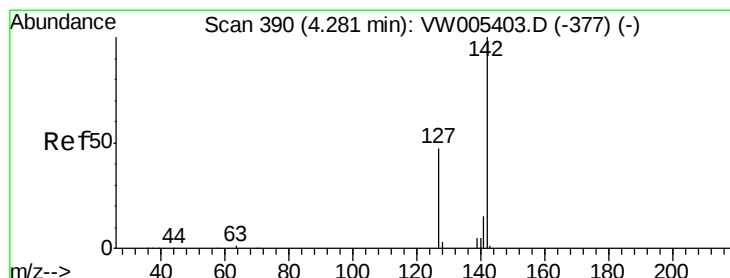
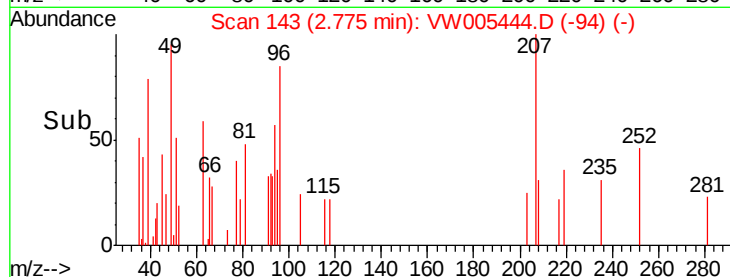
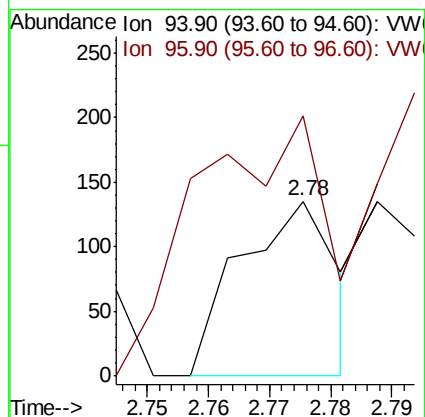
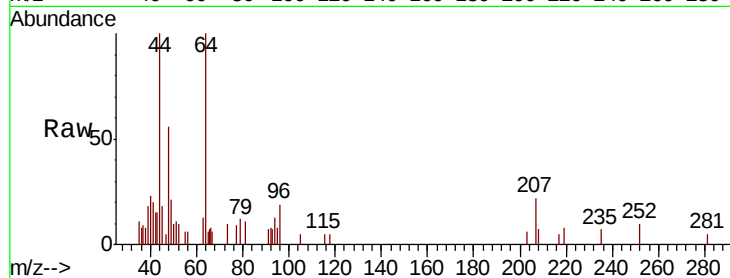
S1RE

Tgt Ion: 94 Resp: 147

Ion Ratio Lower Upper

94 100

96 94.8 73.7 110.5



#10

Methyl Iodide

Concen: 4.080 ug/l

RT: 4.28 min Scan# 390

Delta R.T. 0.00 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

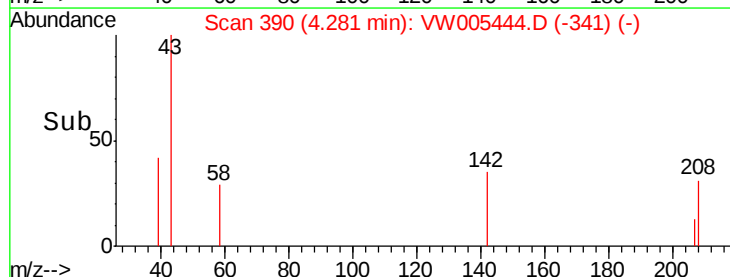
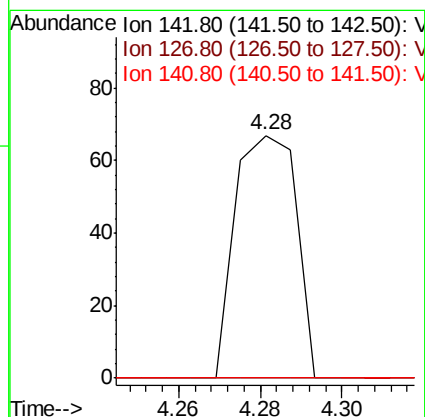
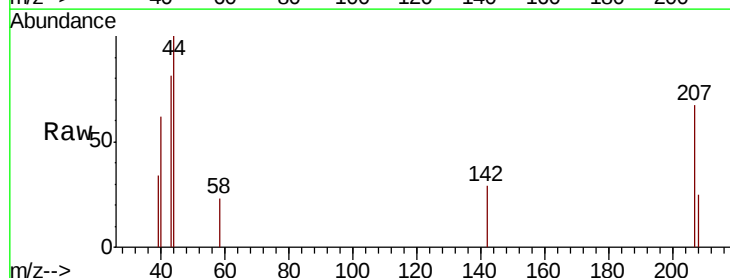
Tgt Ion: 142 Resp: 70

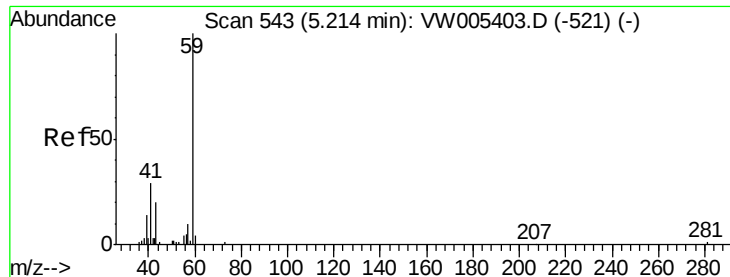
Ion Ratio Lower Upper

142 100

127 0.0 37.5 56.3#

141 0.0 12.4 18.6#

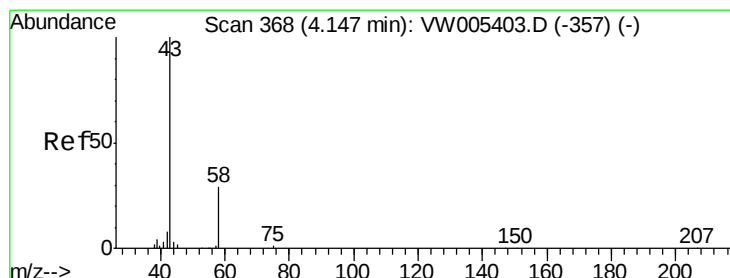
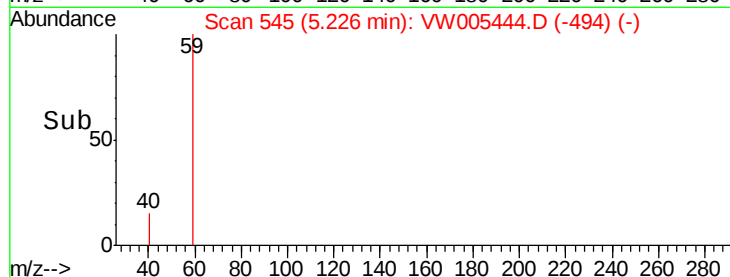
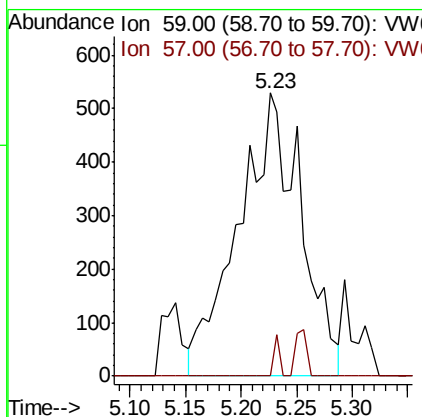
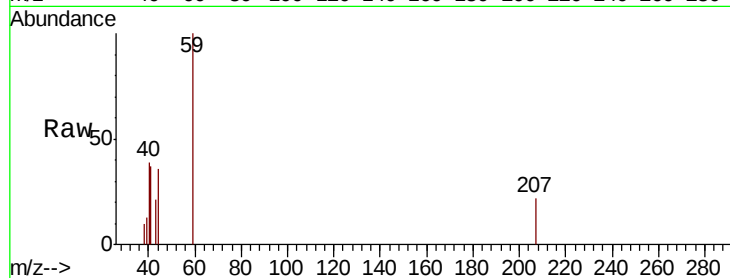




#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.23 min Scan# 545
Delta R.T. 0.01 min
Lab File: VW005444.D
Acq: 17 Sep 2018 19:43

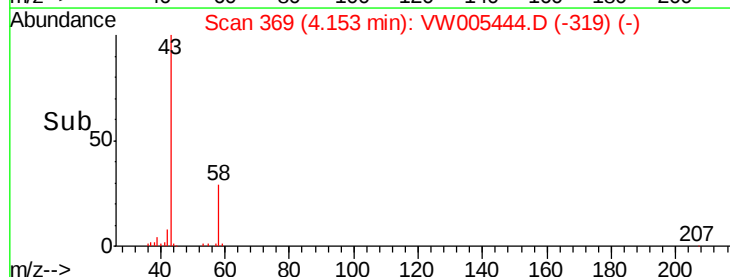
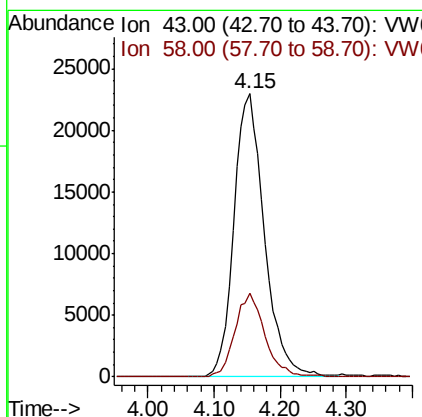
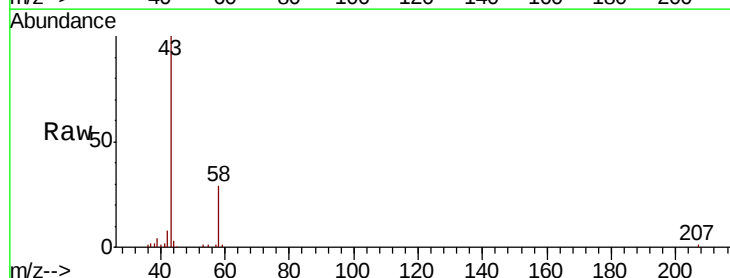
Instrument :
MSVOA_W
ClientSampled :
S1RE

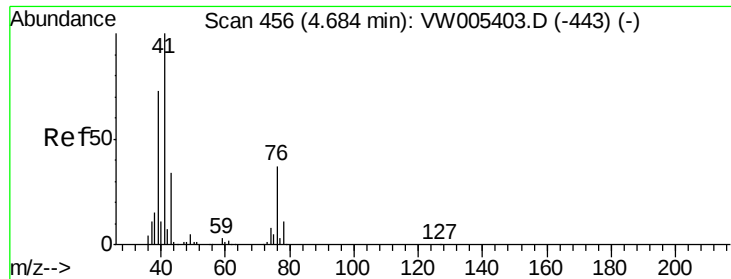
Tgt Ion: 59 Resp: 2059
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#16
Acetone
Concen: 234.984 ug/l
RT: 4.15 min Scan# 369
Delta R.T. 0.01 min
Lab File: VW005444.D
Acq: 17 Sep 2018 19:43

Tgt Ion: 43 Resp: 73440
Ion Ratio Lower Upper
43 100
58 29.4 22.8 34.2

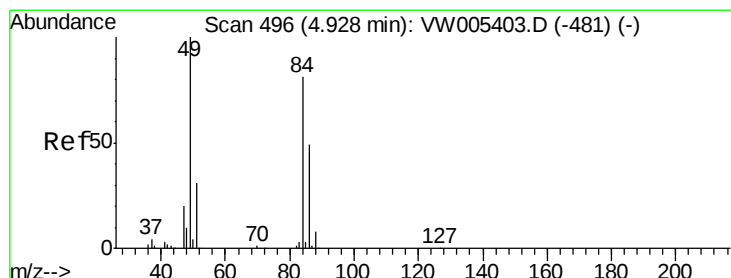
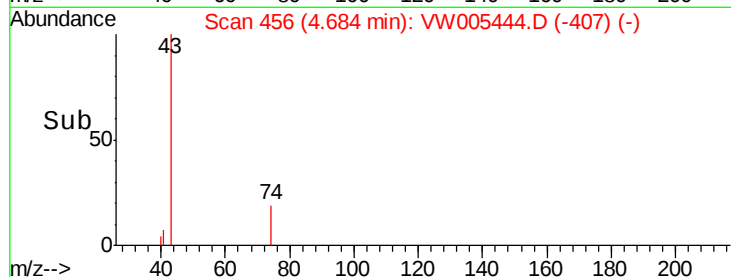
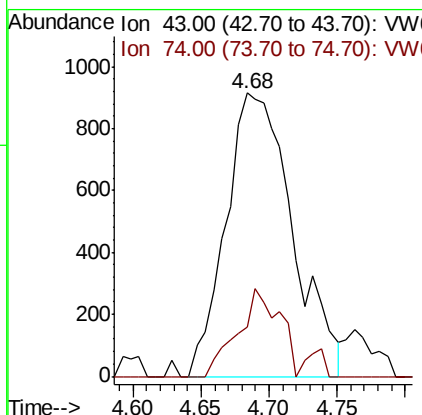
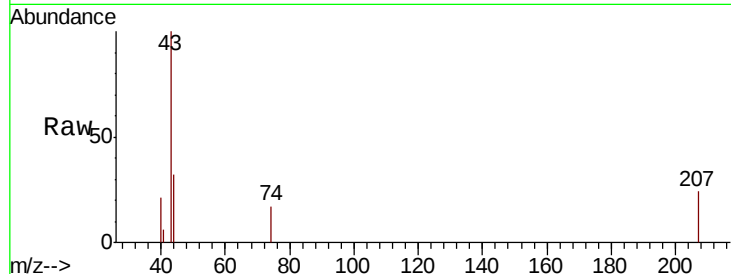




#18
Methyl Acetate
Concen: 3.009 ug/l
RT: 4.68 min Scan# 456
Delta R.T. -0.00 min
Lab File: VW005444.D
Acq: 17 Sep 2018 19:43

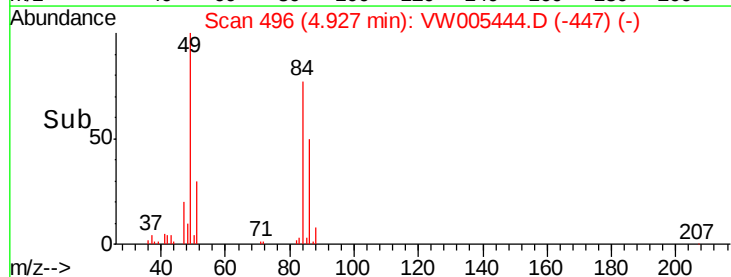
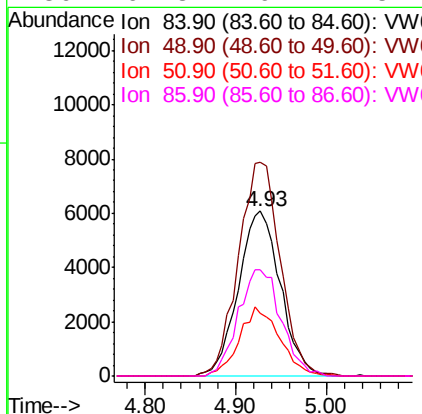
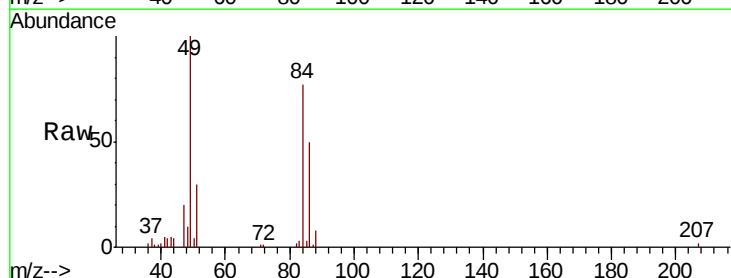
Instrument :
MSVOA_W
ClientSampled :
S1RE

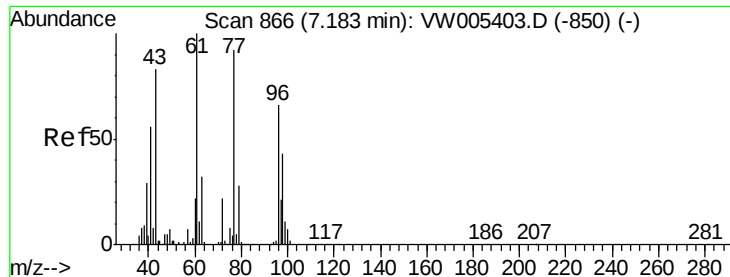
Tgt Ion: 43 Resp: 3128
Ion Ratio Lower Upper
43 100
74 19.9 17.7 26.5



#20
Methylene Chloride
Concen: 3.766 ug/l
RT: 4.93 min Scan# 496
Delta R.T. 0.00 min
Lab File: VW005444.D
Acq: 17 Sep 2018 19:43

Tgt Ion: 84 Resp: 19475
Ion Ratio Lower Upper
84 100
49 129.7 99.3 148.9
51 38.5 31.1 46.7
86 64.3 49.1 73.7





#25

2-Butanone

Concen: 49.919 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.01 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

Instrument :

MSVOA_W

ClientSampled :

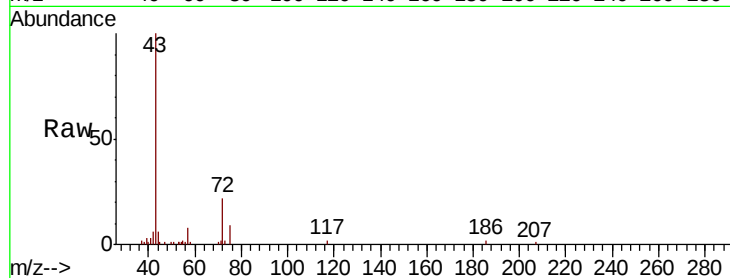
S1RE

Tgt Ion: 43 Resp: 25978

Ion Ratio Lower Upper

43 100

72 21.5 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.19

10000

8000

6000

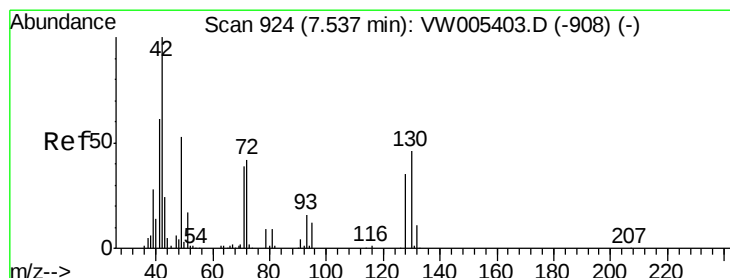
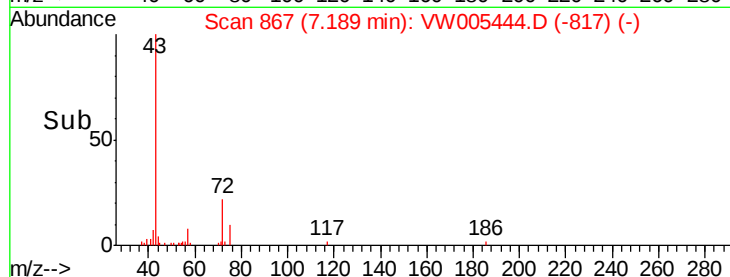
4000

2000

0

Time-->

7.10 7.20 7.30



#29

Tetrahydrofuran

Concen: 1.406 ug/l

RT: 7.56 min Scan# 927

Delta R.T. 0.02 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

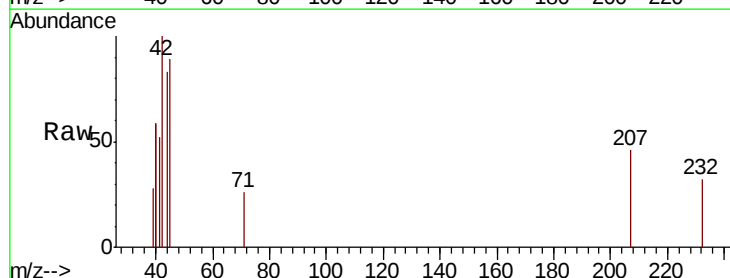
Tgt Ion: 42 Resp: 466

Ion Ratio Lower Upper

42 100

72 13.1 33.2 49.8#

71 10.1 31.0 46.6#



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

7.56

250

200

150

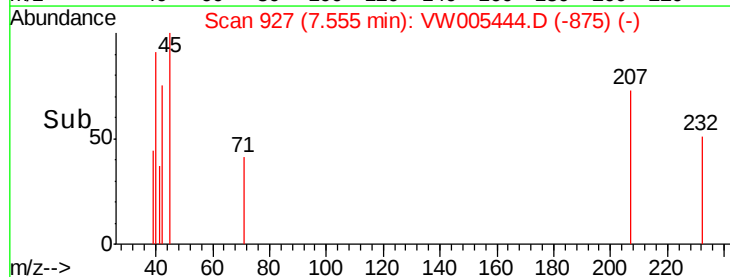
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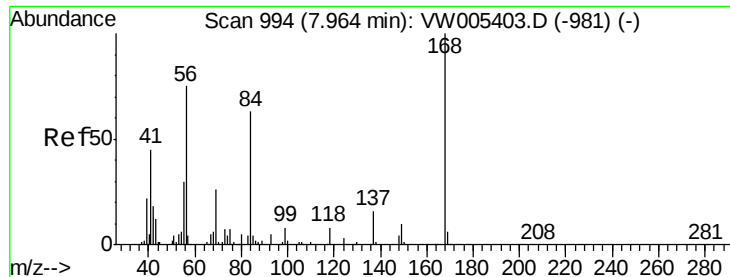
50

0

Time-->

7.50 7.55 7.60

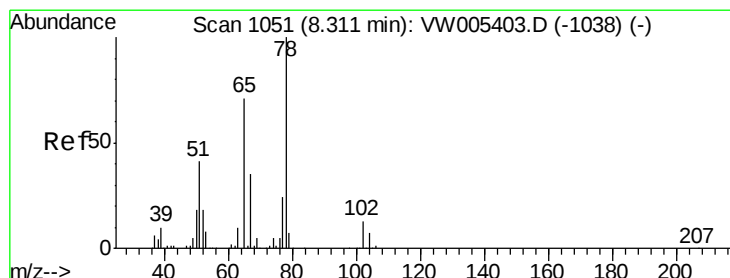
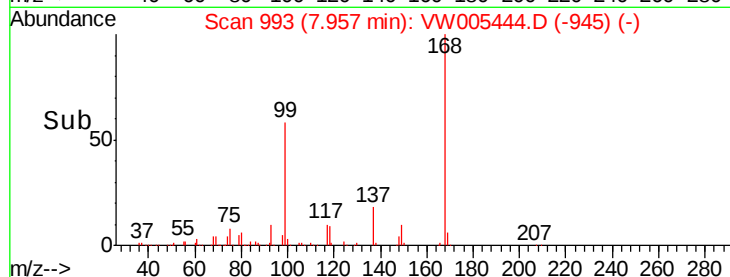
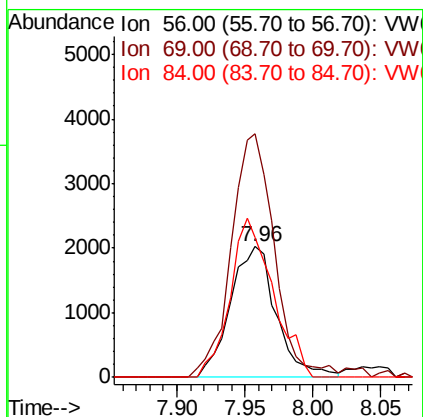
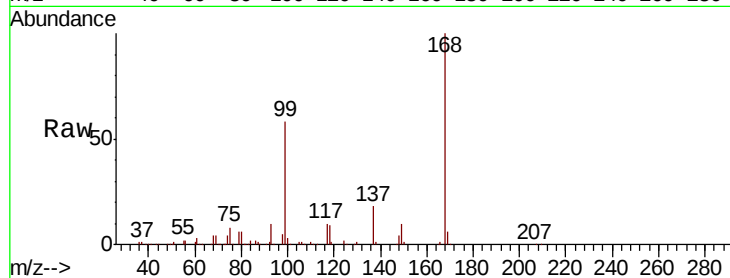




#31
Cyclohexane
Concen: 1.378 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.01 min
Lab File: VW005444.D
Acq: 17 Sep 2018 19:43

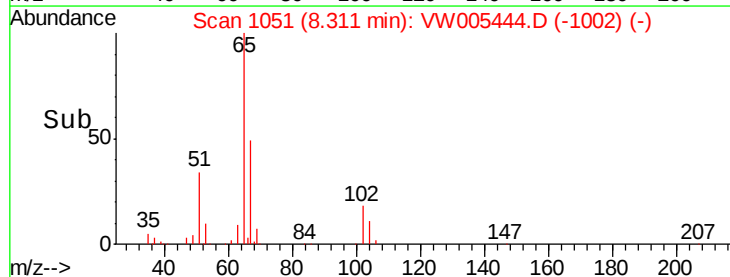
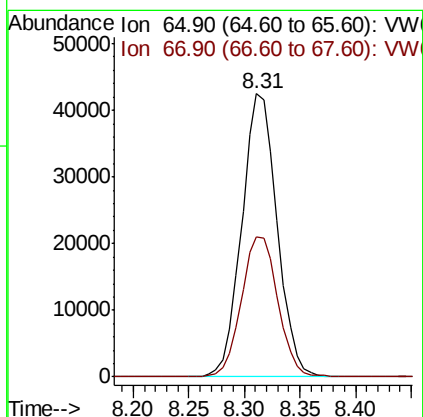
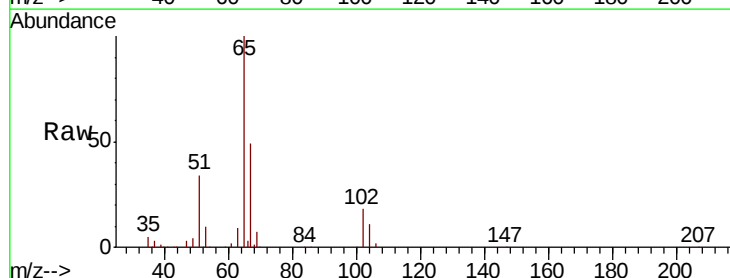
Instrument :
MSVOA_W
ClientSampled :
S1RE

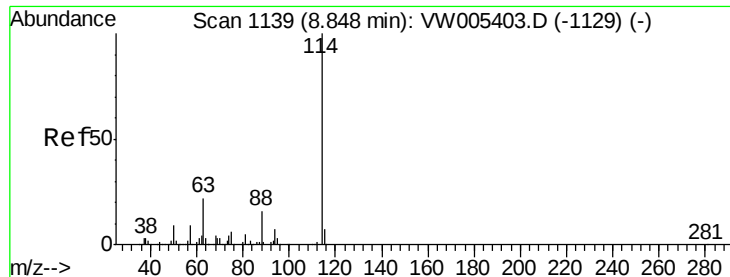
Tgt Ion: 56 Resp: 4757
Ion Ratio Lower Upper
56 100
69 186.4 27.2 40.8#
84 107.5 66.7 100.1#



#33
1,2-Dichloroethane-d4
Concen: 43.296 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VW005444.D
Acq: 17 Sep 2018 19:43

Tgt Ion: 65 Resp: 93665
Ion Ratio Lower Upper
65 100
67 51.1 0.0 100.6

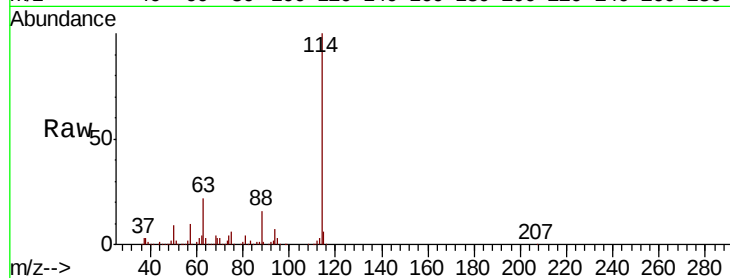




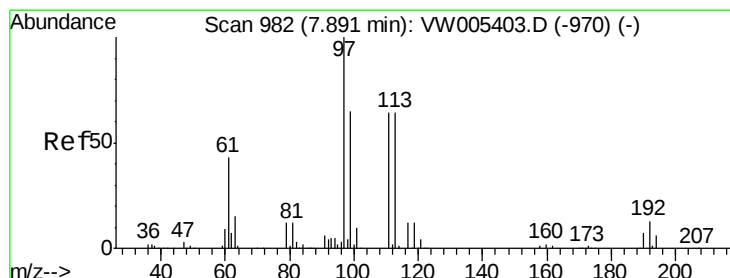
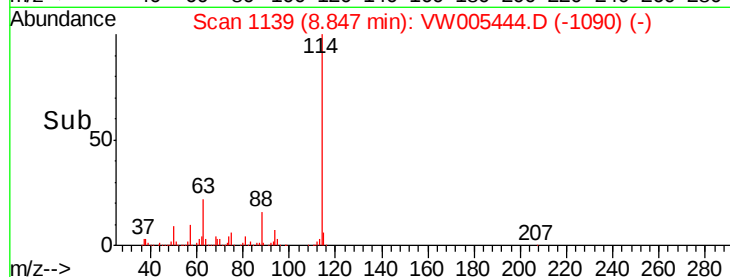
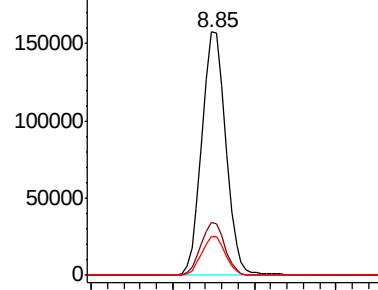
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW005444.D
 Acq: 17 Sep 2018 19:43

Instrument :
 MSVOA_W
 ClientSampleId :
 S1RE

Tgt Ion:114 Resp: 321674
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.4
 88 16.0 0.0 31.8

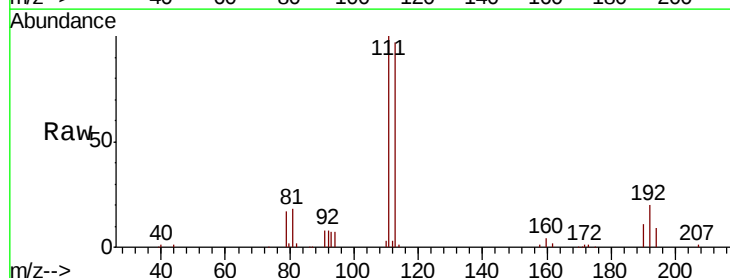


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

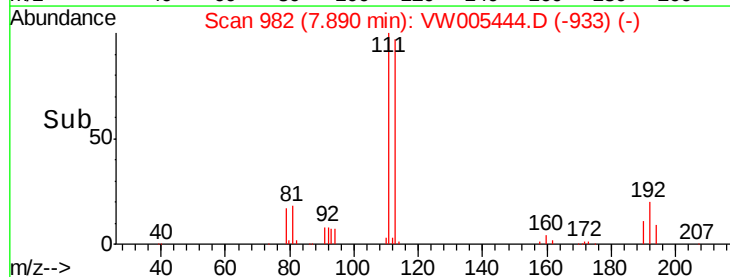
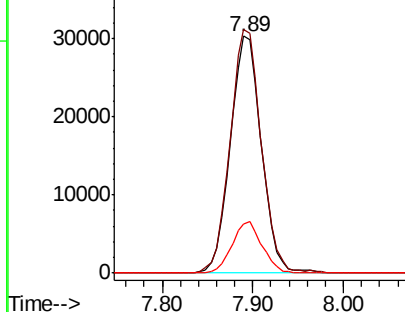


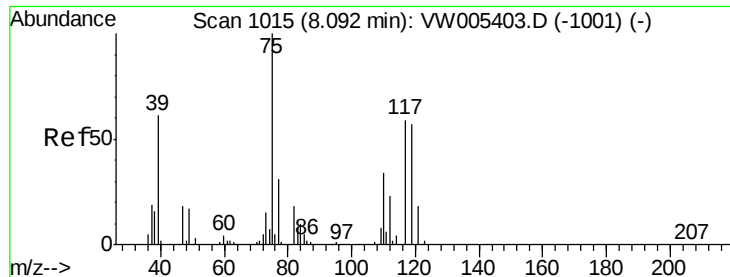
#35
 Dibromofluoromethane
 Concen: 39.963 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW005444.D
 Acq: 17 Sep 2018 19:43

Tgt Ion:113 Resp: 72076
 Ion Ratio Lower Upper
 113 100
 111 103.2 82.3 123.5
 192 20.9 16.5 24.7



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: 5.403 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.13 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

Instrument :

MSVOA_W

ClientSampleId :

S1RE

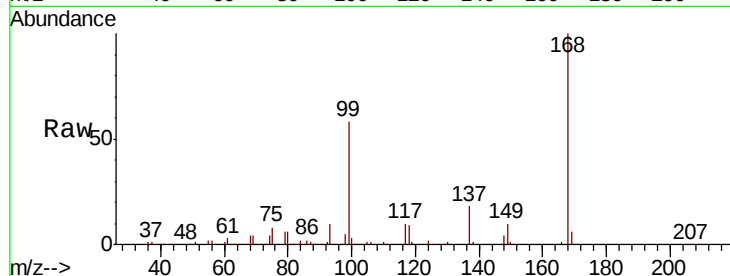
Tgt Ion: 75 Resp: 16449

Ion Ratio Lower Upper

75 100

110 9.5 16.8 50.4#

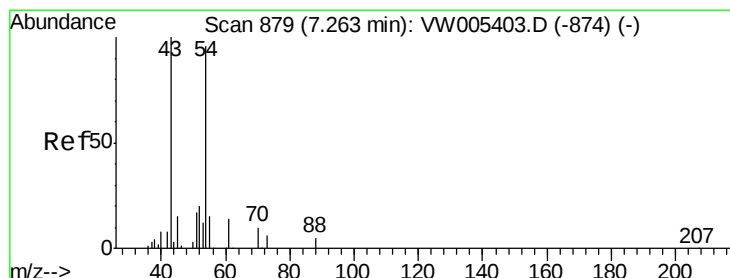
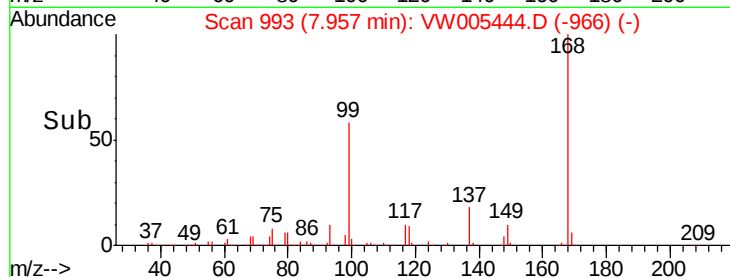
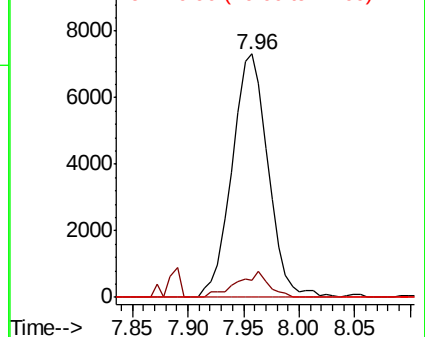
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 20.984 ug/l

RT: 7.19 min Scan# 867

Delta R.T. -0.07 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

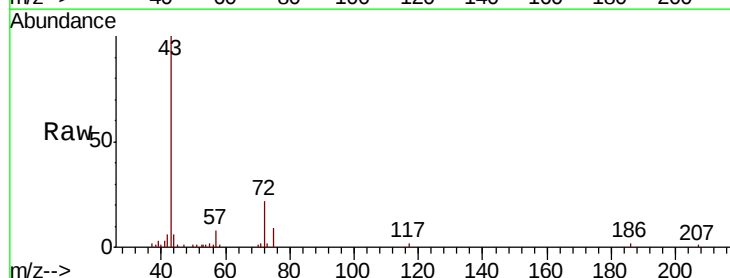
Tgt Ion: 43 Resp: 25978

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

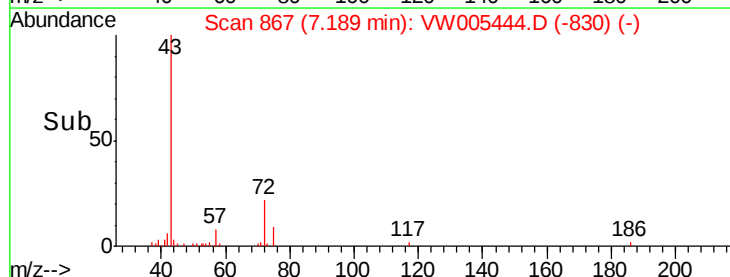
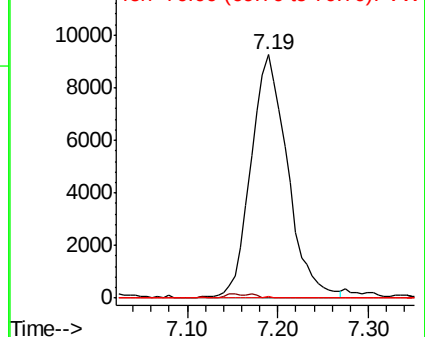
70 0.1 8.2 12.4#

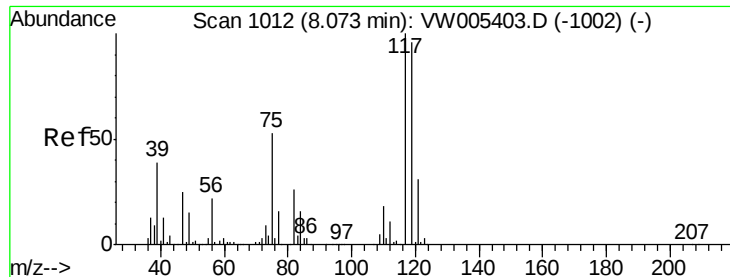


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW





#38

Carbon Tetrachloride

Concen: 6.526 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

Instrument :

MSVOA_W

ClientSampleId :

S1RE

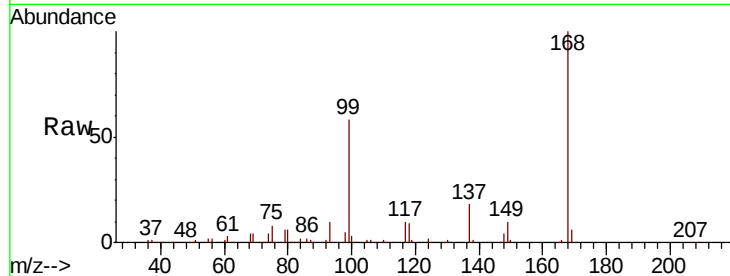
Tgt Ion:117 Resp: 20701

Ion Ratio Lower Upper

117 100

119 5.9 76.8 115.2#

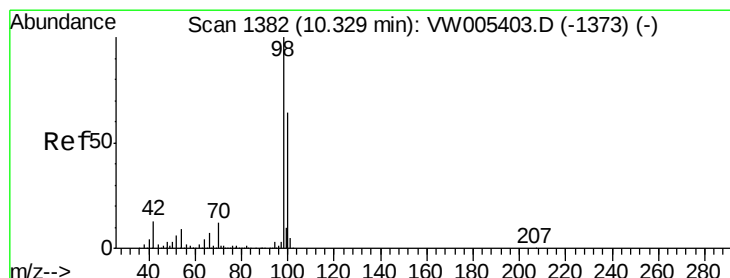
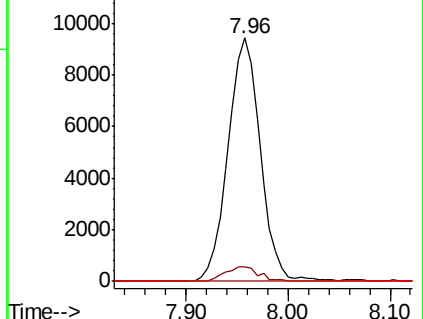
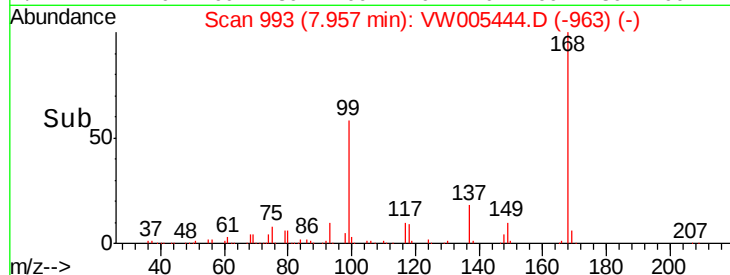
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 34.945 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005444.D

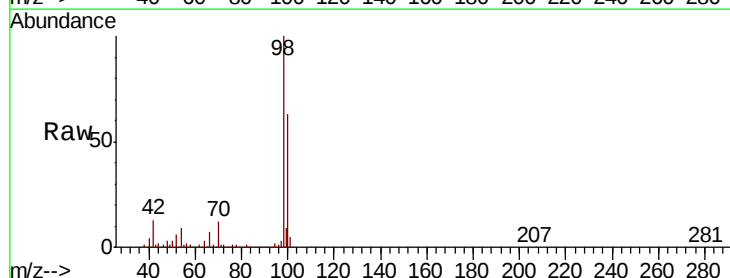
Acq: 17 Sep 2018 19:43

Tgt Ion: 98 Resp: 288629

Ion Ratio Lower Upper

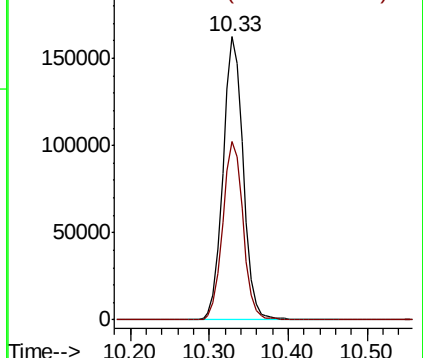
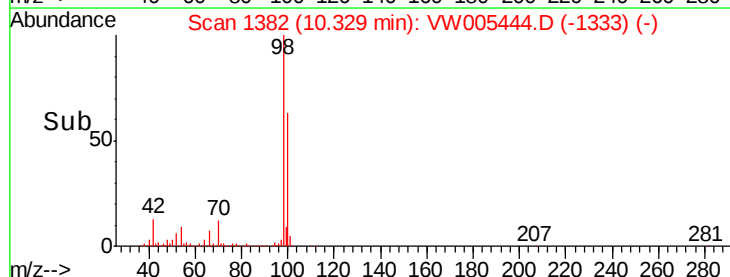
98 100

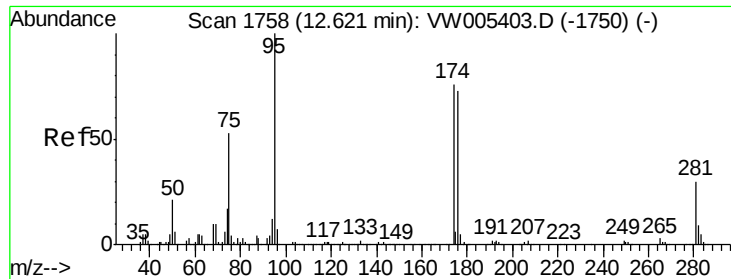
100 63.6 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#62

4-Bromofluorobenzene

Concen: 27.047 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

Instrument :

MSVOA_W

ClientSampleId :

S1RE

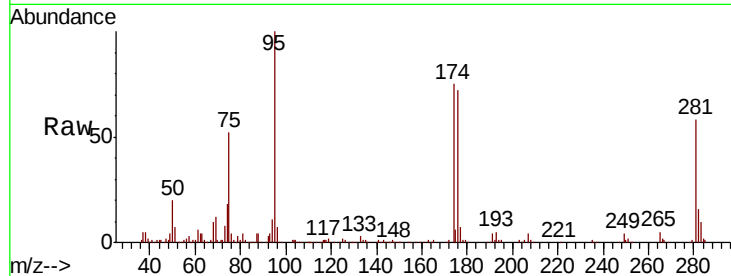
Tgt Ion: 95 Resp: 81912

Ion Ratio Lower Upper

95 100

174 81.7 0.0 161.2

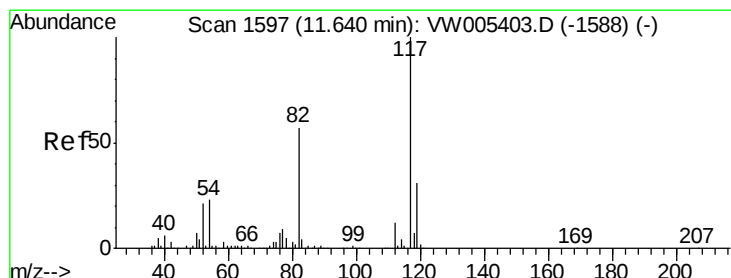
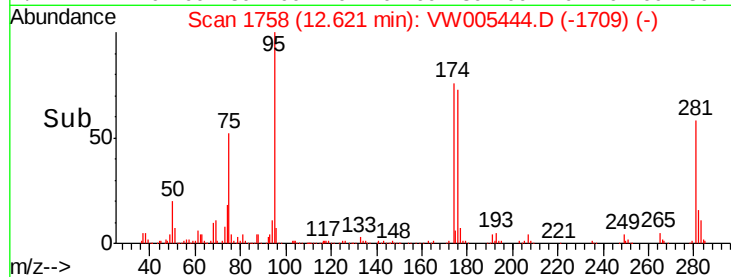
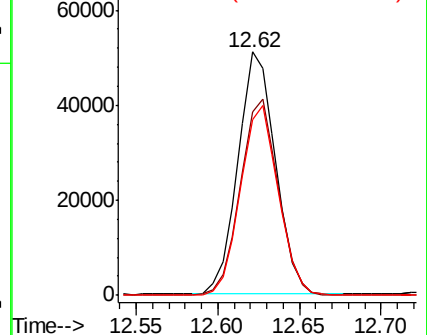
176 78.7 0.0 156.6



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# 1596

Delta R.T. -0.01 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

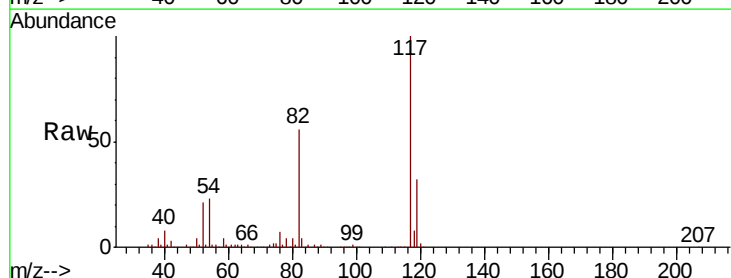
Tgt Ion: 117 Resp: 260996

Ion Ratio Lower Upper

117 100

82 55.8 45.9 68.9

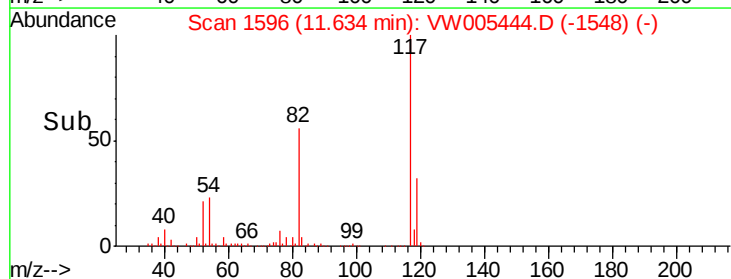
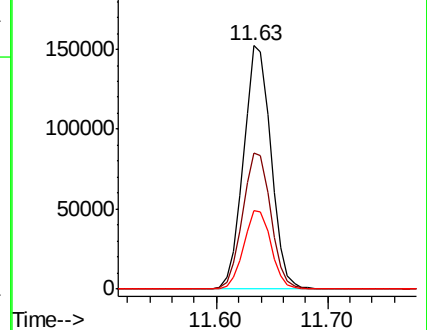
119 32.5 24.8 37.2

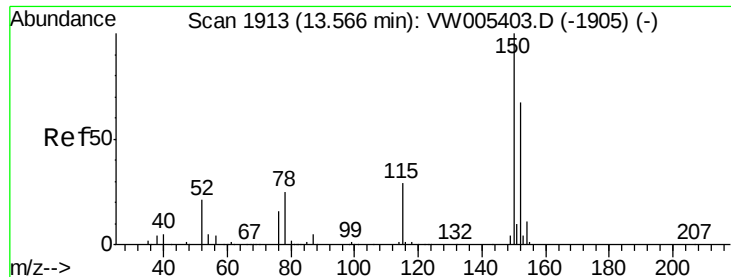


Abundance Ion 116.90 (116.60 to 117.60): VW

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# 1913

Delta R.T. -0.00 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

Instrument :

MSVOA_W

ClientSampleId :

S1RE

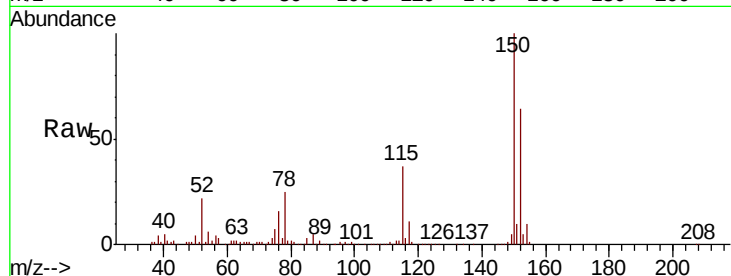
Tgt Ion:152 Resp: 85236

Ion Ratio Lower Upper

152 100

115 59.0 29.5 88.5

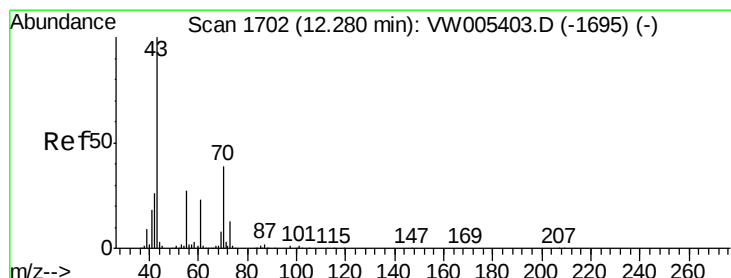
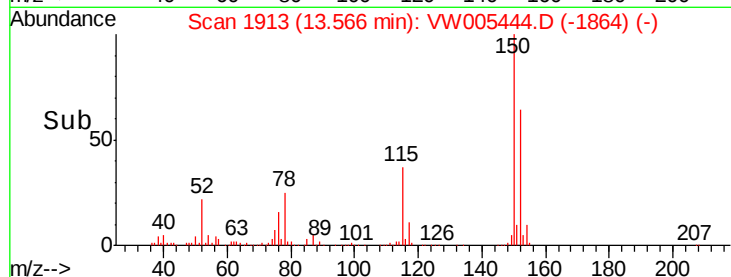
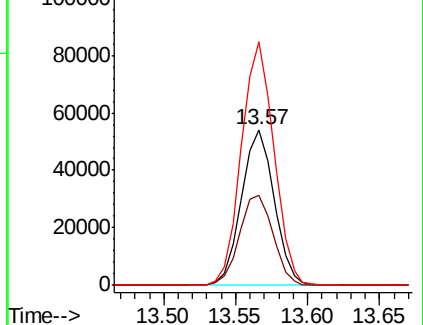
150 156.3 0.0 345.6



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



#74

N-ethyl acetate

Concen: 1.220 ug/l

RT: 12.26 min Scan# 1698

Delta R.T. -0.02 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

Tgt Ion: 43 Resp: 1537

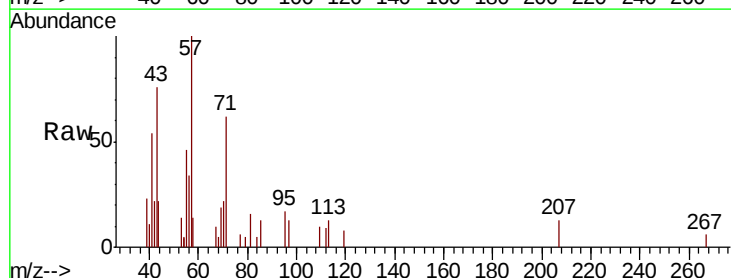
Ion Ratio Lower Upper

43 100

70 7.5 31.9 47.9#

55 11.8 21.4 32.0#

61 0.0 18.3 27.5#

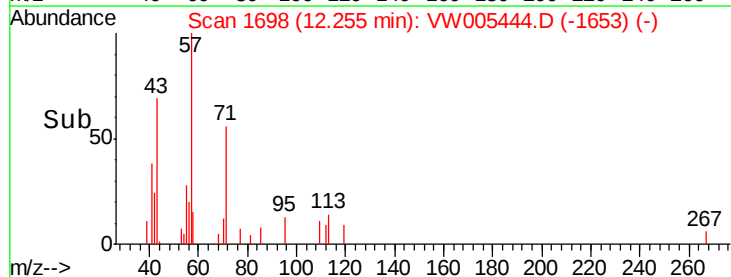
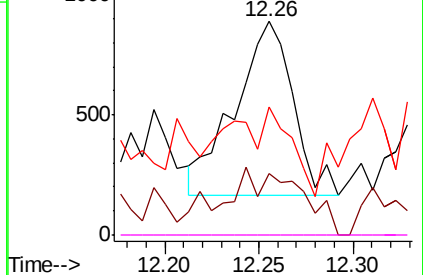


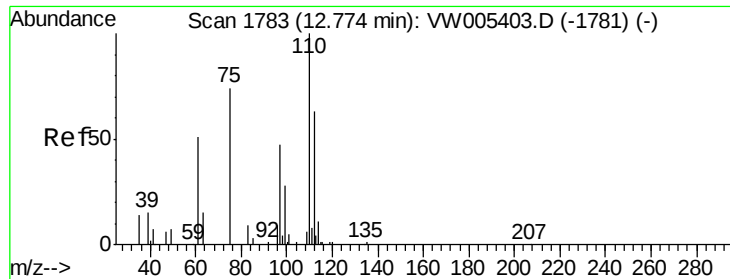
Abundance Ion 43.00 (42.70 to 43.70): VW

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: 61.771 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

Instrument :

MSVOA_W

ClientSampleId :

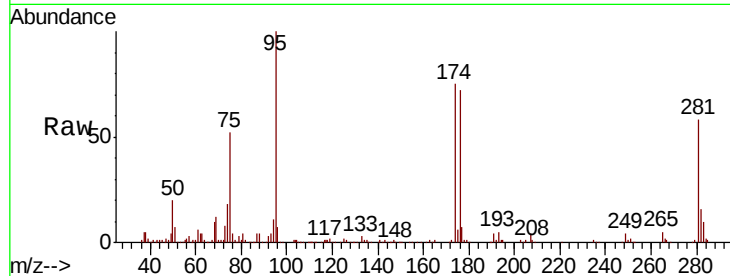
S1RE

Tgt Ion: 75 Resp: 43304

Ion Ratio Lower Upper

75 100

77 2.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

30000

25000

20000

15000

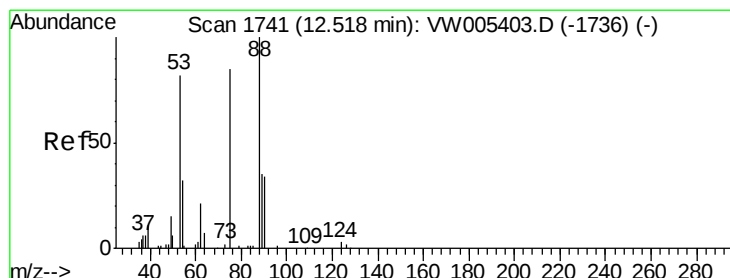
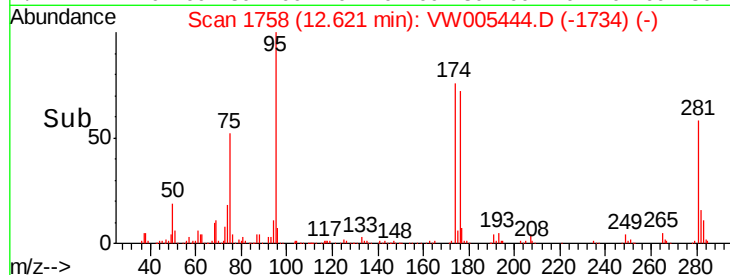
10000

5000

0

Time-->

12.60 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 160.237 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005444.D

Acq: 17 Sep 2018 19:43

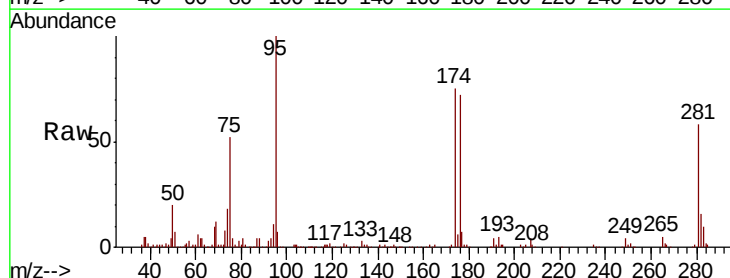
Tgt Ion: 75 Resp: 43304

Ion Ratio Lower Upper

75 100

53 0.2 83.2 124.8#

89 0.7 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

30000

20000

10000

0

Time-->

12.60 12.70

