

Data File : VW008465.D
Acq On : 30 Jan 2019 14:58
Operator : SY/VA
Sample : K1282-13
Misc : 4.11G/5ML/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-4

Quant Time: Jan 31 00:26:57 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	350504	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	546158	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	382888	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	106465	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	178606	51.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.74%	
35) Dibromofluoromethane	7.88	113	179461	56.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.38%	
50) Toluene-d8	10.32	98	621901	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	
62) 4-Bromofluorobenzene	12.62	95	144370	29.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	58.66%	

Target Compounds

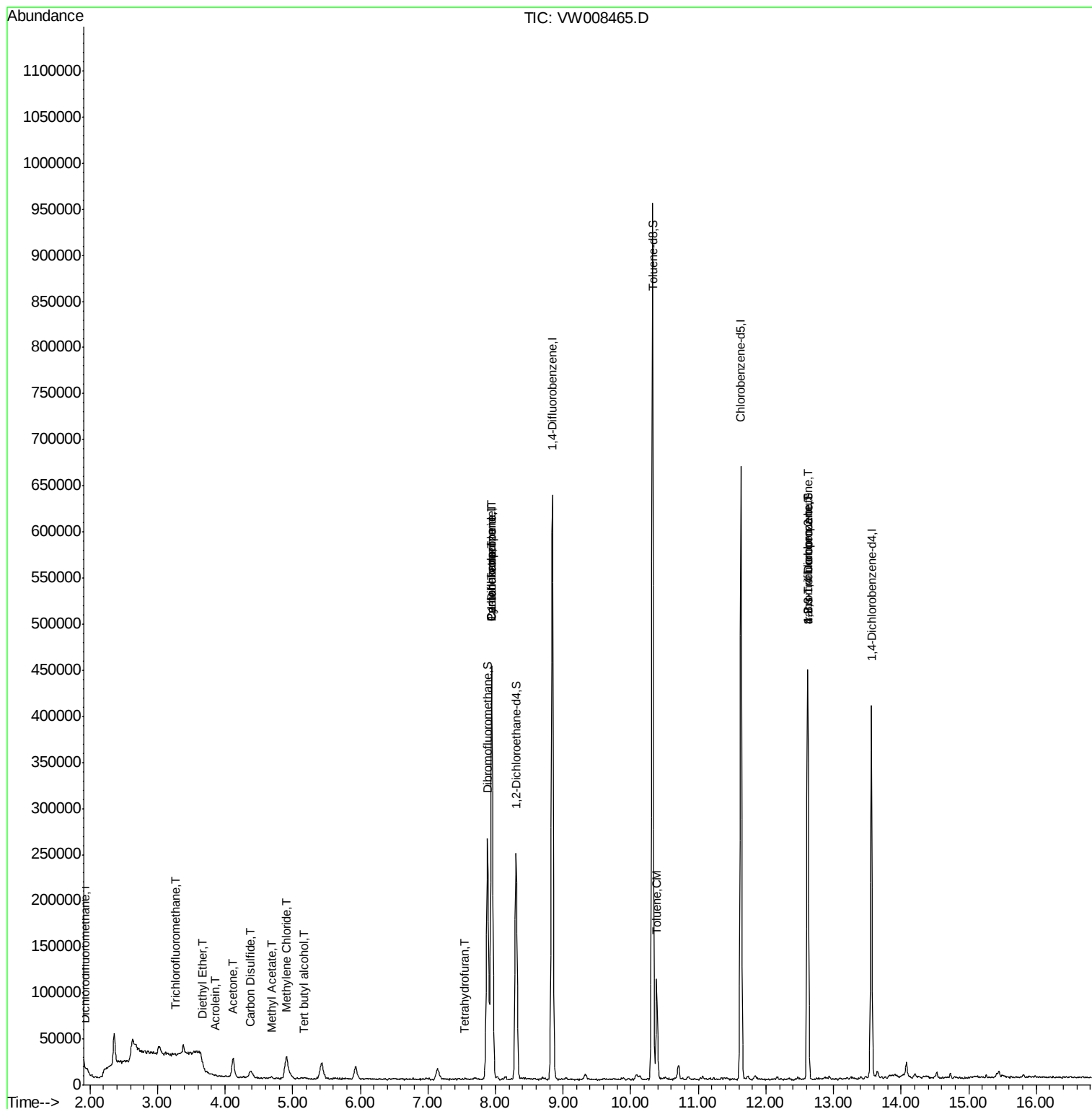
						Qvalue
2) Dichlorodifluoromethane	1.94	85	126	3.311	ug/l #	41
7) Trichlorofluoromethane	3.26	101	151	4.768	ug/l	95
8) Diethyl Ether	3.68	74	2544	1.455	ug/l	95
11) Tert butyl alcohol	5.17	59	1144	4.127	ug/l #	70
13) Acrolein	3.85	56	246	5.174	ug/l	96
16) Acetone	4.12	43	36068	46.644	ug/l	100
17) Carbon Disulfide	4.37	76	12475	1.217	ug/l #	94
18) Methyl Acetate	4.68	43	2119	1.027	ug/l	93
20) Methylene Chloride	4.91	84	19506	5.473	ug/l	86
29) Tetrahydrofuran	7.54	42	798	1.172	ug/l #	79
31) Cyclohexane	7.95	56	9372	1.387	ug/l #	15
36) 1,1-Dichloropropene	7.95	75	23679	4.590	ug/l #	51
38) Carbon Tetrachloride	7.95	117	32286	6.219	ug/l #	17
52) Toluene	10.38	92	46889	4.962	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	71045	76.752	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	71045	151.592	ug/l #	12

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW008465.D

Acq: 30 Jan 2019 14:58

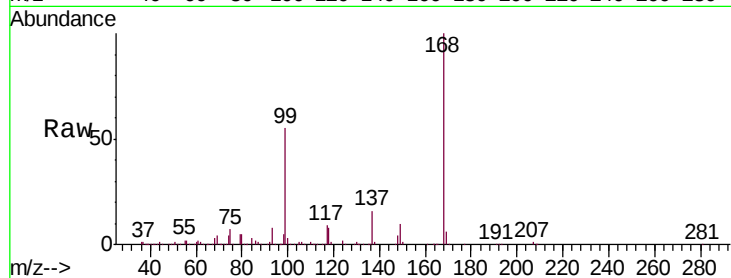
Instrument :
MSVOA_W
ClientSampleId :
TP-4

Tgt Ion: 168 Resp: 350504

Ion Ratio Lower Upper

168 100

99 55.2 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

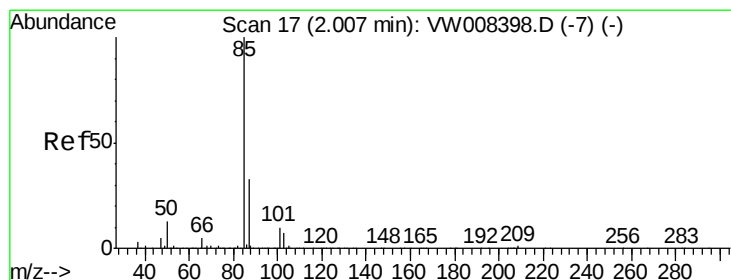
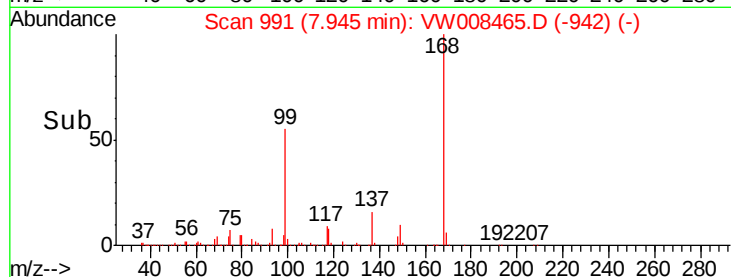
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.311 ug/l

RT: 1.94 min Scan# 6

Delta R.T. -0.07 min

Lab File: VW008465.D

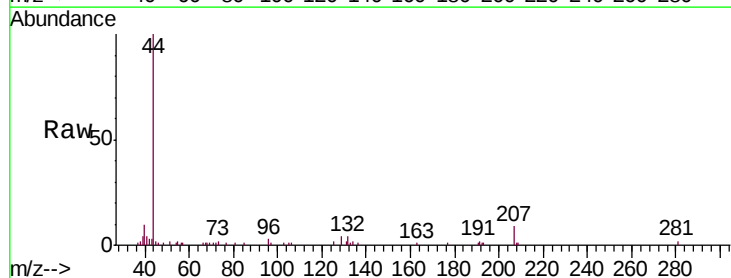
Acq: 30 Jan 2019 14:58

Tgt Ion: 85 Resp: 126

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

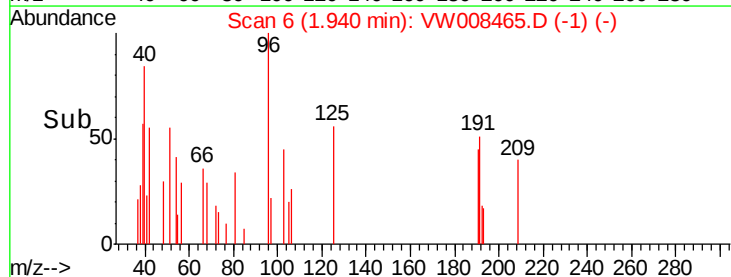
1.94

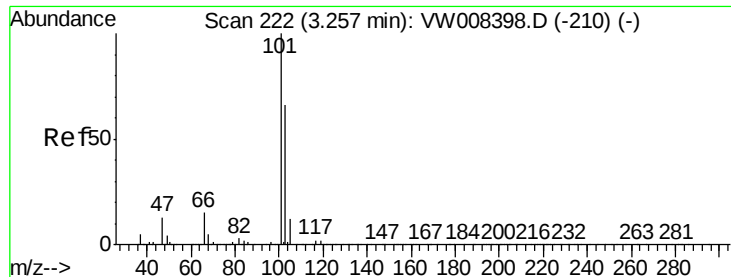
100

50

0

Time-->



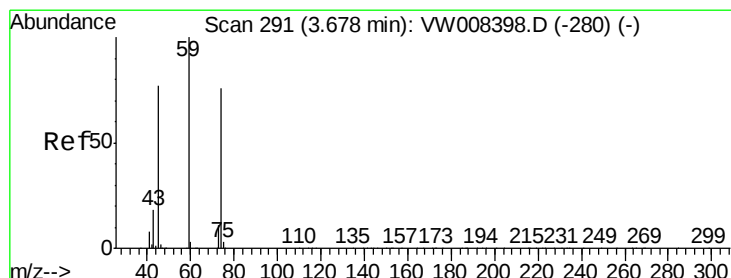
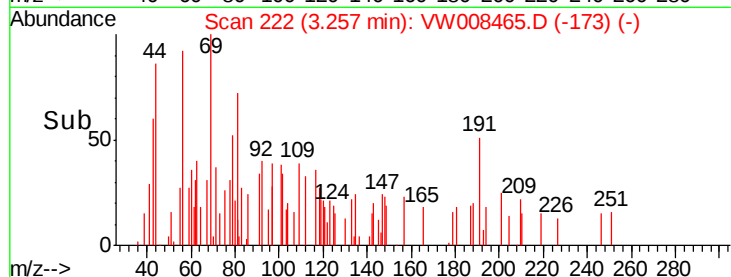
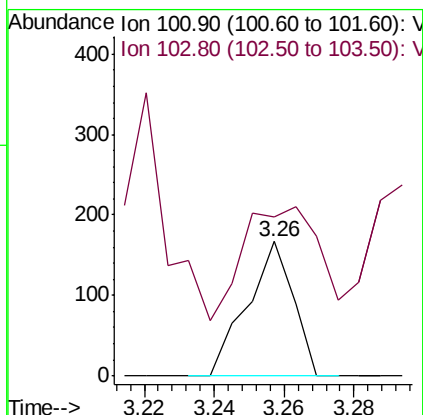
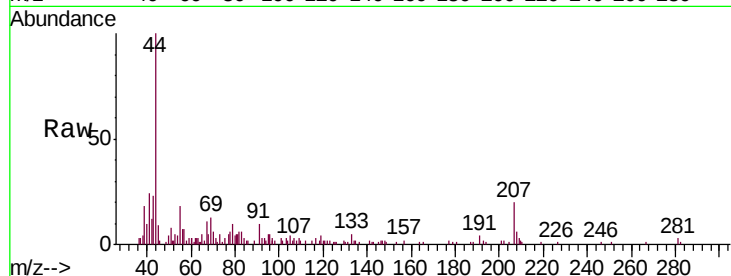


#7

Trichlorofluoromethane
 Concen: 4.768 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VW008465.D
 Acq: 30 Jan 2019 14:58

Instrument :
 MSVOA_W
 ClientSampled :
 TP-4

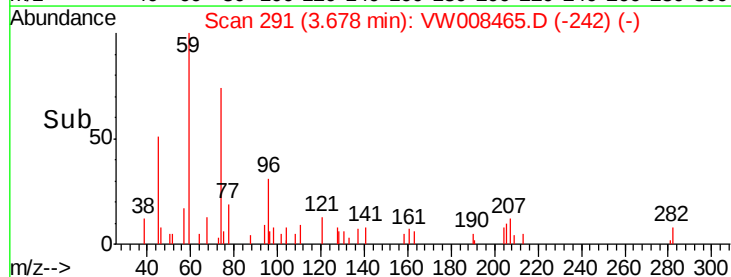
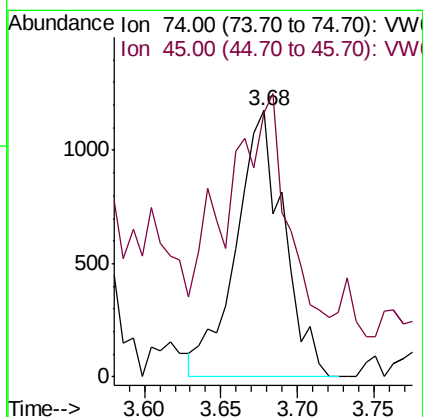
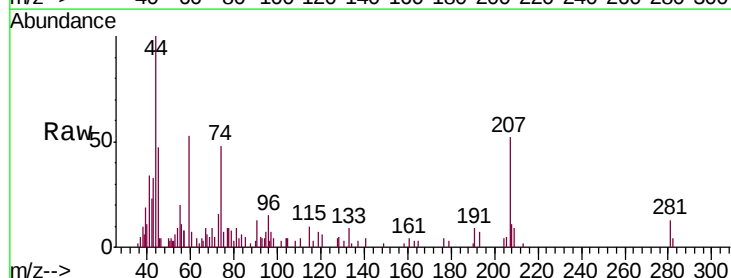
Tgt Ion: 101 Resp: 151
 Ion Ratio Lower Upper
 101 100
 103 61.7 52.5 78.7

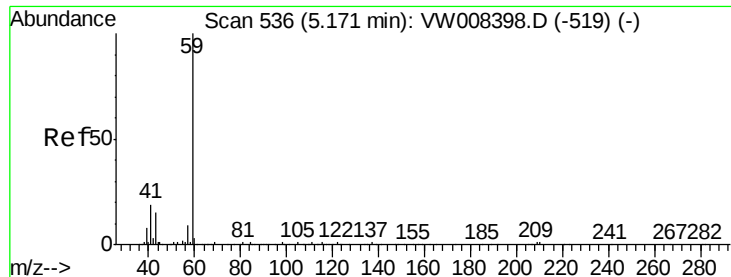


#8

Diethyl Ether
 Concen: 1.455 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW008465.D
 Acq: 30 Jan 2019 14:58

Tgt Ion: 74 Resp: 2544
 Ion Ratio Lower Upper
 74 100
 45 98.9 51.7 155.2





#11

Tert butyl alcohol

Concen: 4.127 ug/l

RT: 5.17 min Scan# 535

Delta R.T. -0.01 min

Lab File: VW008465.D

Acq: 30 Jan 2019 14:58

Instrument :

MSVOA_W

ClientSampled :

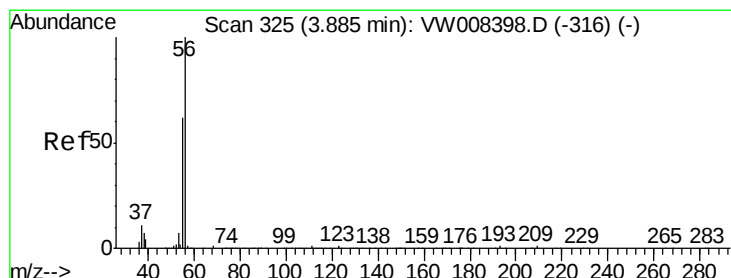
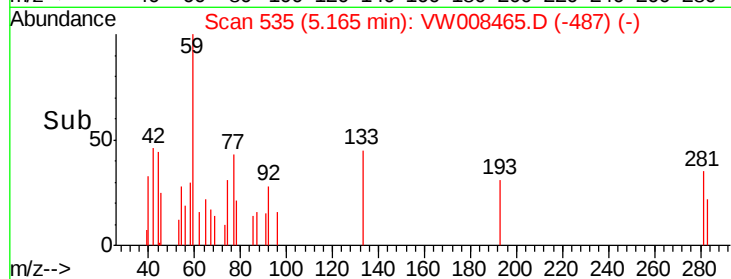
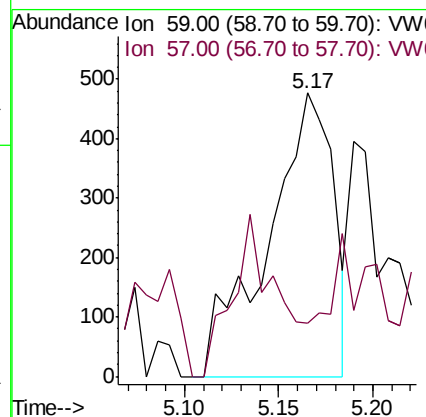
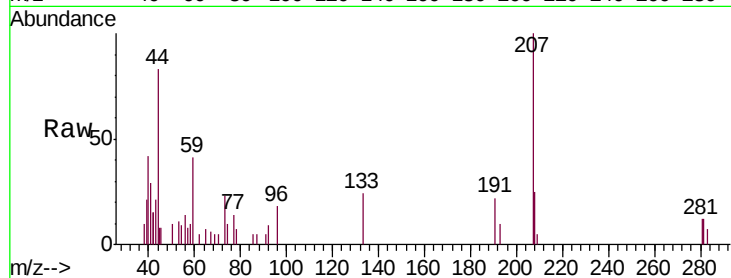
TP-4

Tgt Ion: 59 Resp: 1144

Ion Ratio Lower Upper

59 100

57 0.0 9.3 13.9#



#13

Acrolein

Concen: 5.174 ug/l

RT: 3.85 min Scan# 320

Delta R.T. -0.03 min

Lab File: VW008465.D

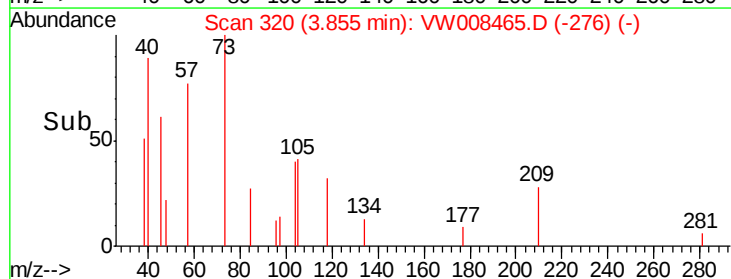
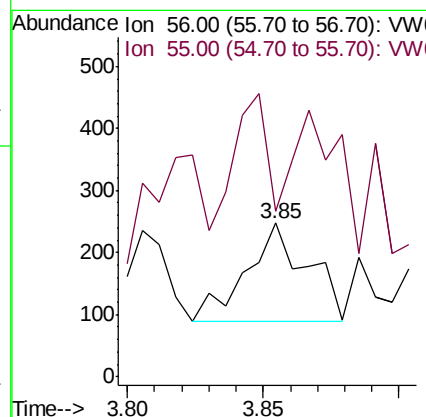
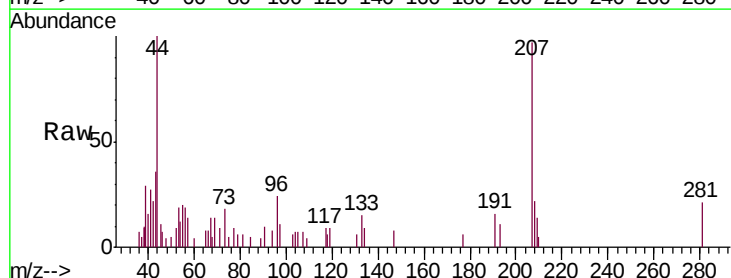
Acq: 30 Jan 2019 14:58

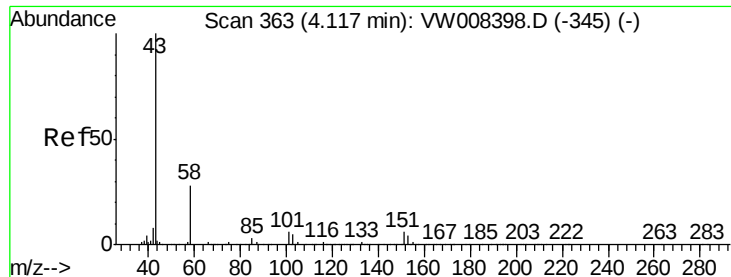
Tgt Ion: 56 Resp: 246

Ion Ratio Lower Upper

56 100

55 74.0 56.7 85.1





#16

Acetone

Concen: 46.644 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW008465.D

Acq: 30 Jan 2019 14:58

Instrument :

MSVOA_W

ClientSampled :

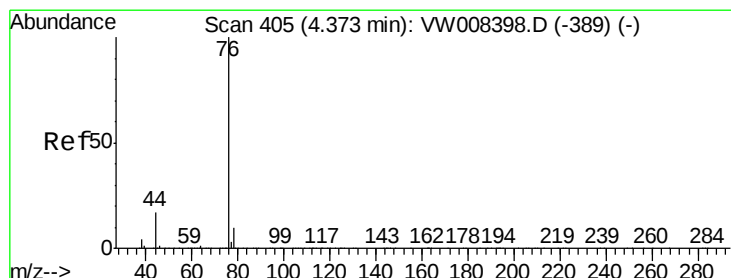
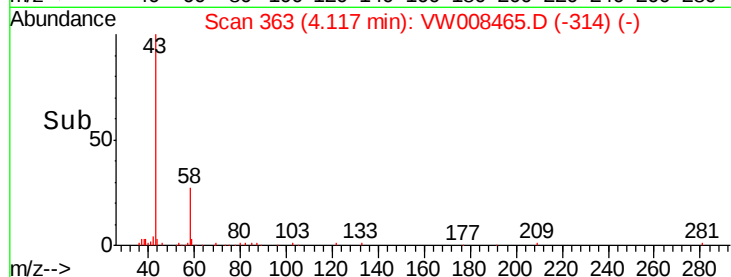
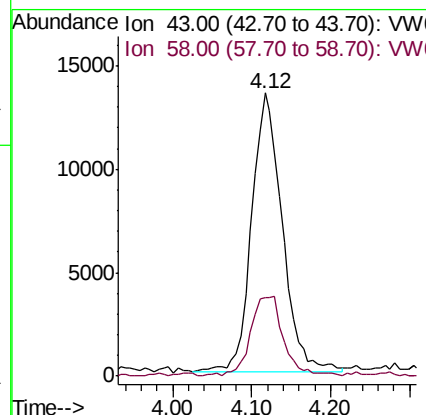
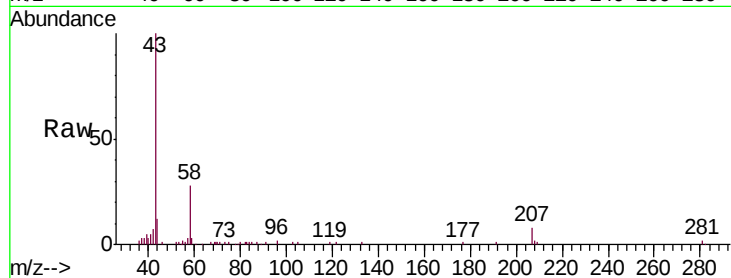
TP-4

Tgt Ion: 43 Resp: 36068

Ion Ratio Lower Upper

43 100

58 28.2 22.6 34.0



#17

Carbon Disulfide

Concen: 1.217 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW008465.D

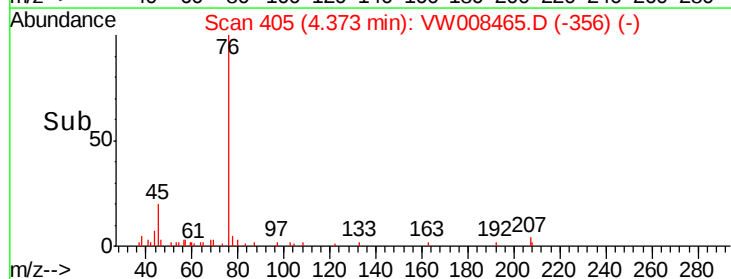
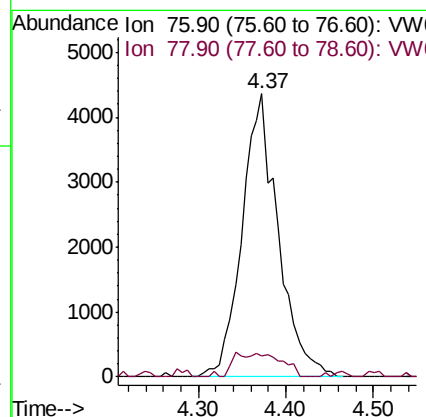
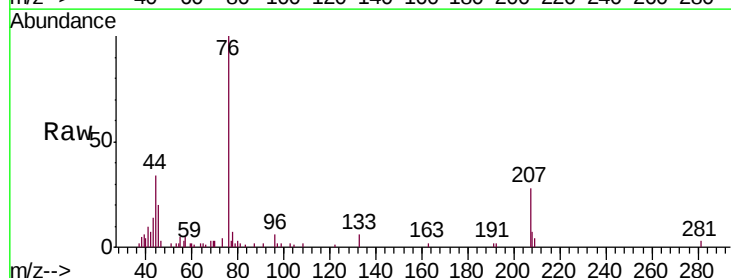
Acq: 30 Jan 2019 14:58

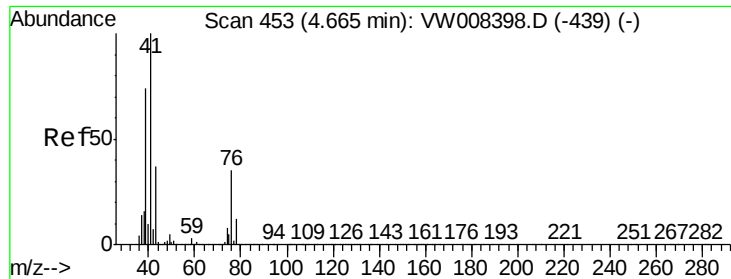
Tgt Ion: 76 Resp: 12475

Ion Ratio Lower Upper

76 100

78 7.4 7.7 11.5#

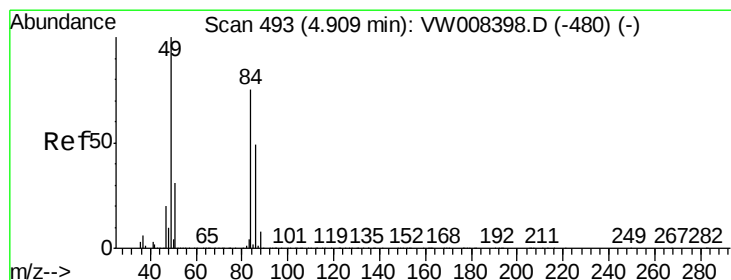
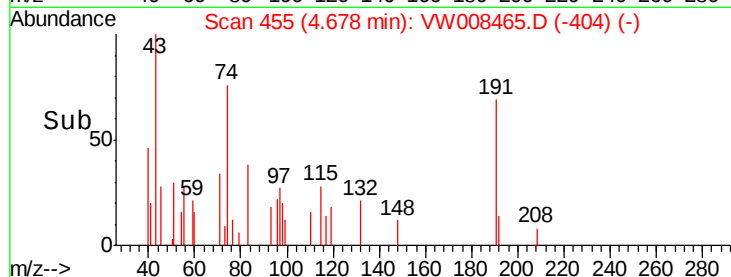
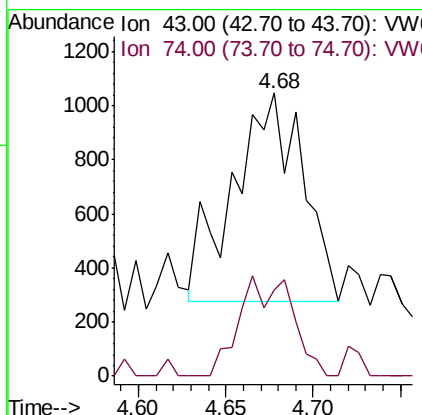
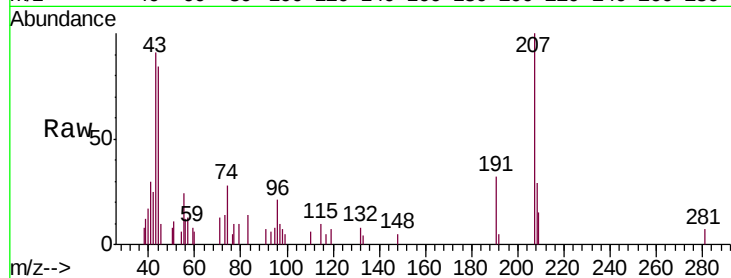




#18
Methyl Acetate
Concen: 1.027 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW008465.D
Acq: 30 Jan 2019 14:58

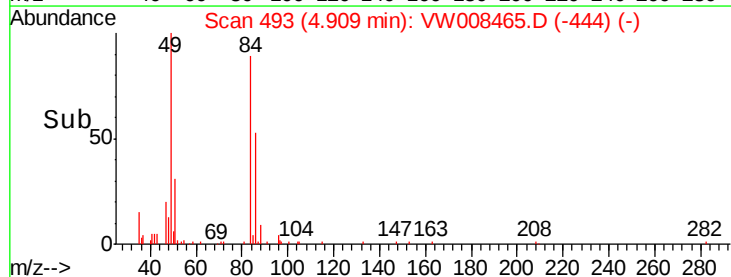
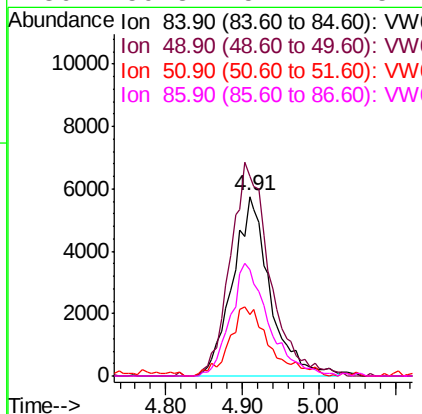
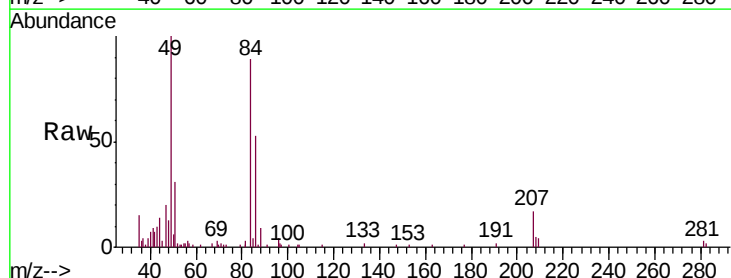
Instrument :
MSVOA_W
ClientSampled :
TP-4

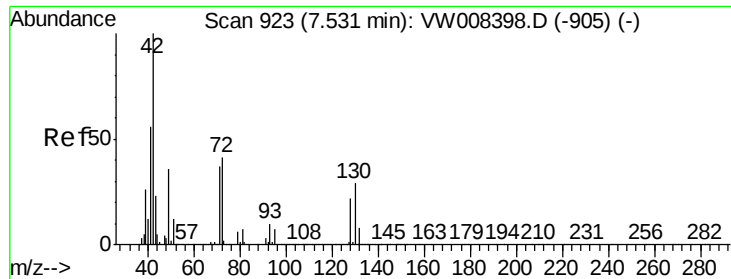
Tgt Ion: 43 Resp: 2119
Ion Ratio Lower Upper
43 100
74 18.7 17.5 26.3



#20
Methylene Chloride
Concen: 5.473 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.00 min
Lab File: VW008465.D
Acq: 30 Jan 2019 14:58

Tgt Ion: 84 Resp: 19506
Ion Ratio Lower Upper
84 100
49 111.8 106.8 160.2
51 34.3 32.9 49.3
86 59.3 52.2 78.2

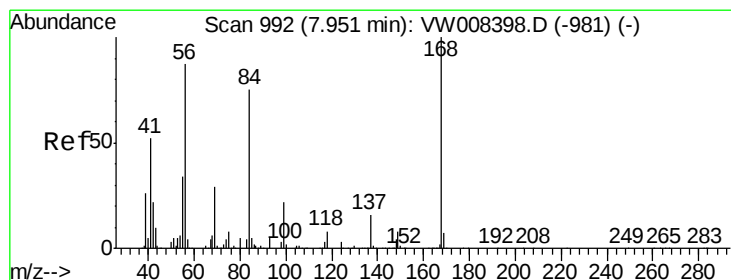
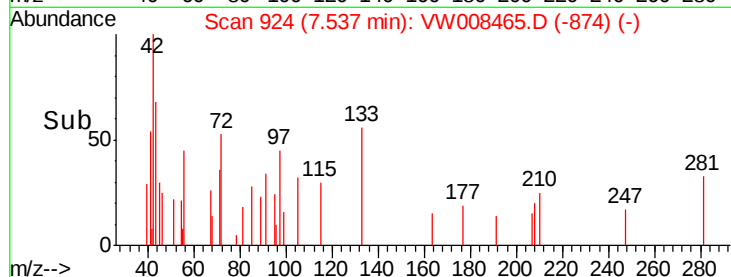
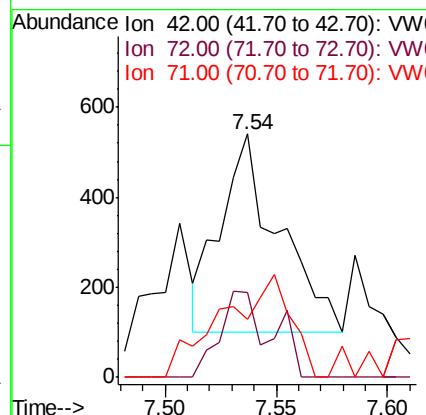
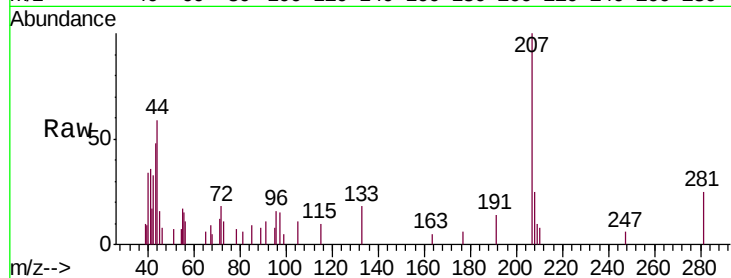




#29
Tetrahydrofuran
Concen: 1.172 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW008465.D
Acq: 30 Jan 2019 14:58

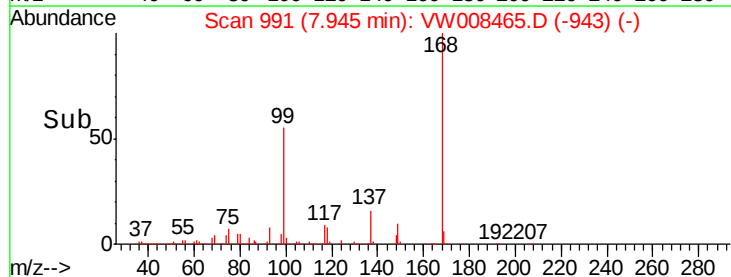
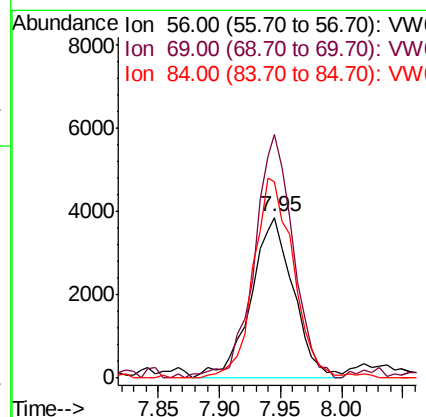
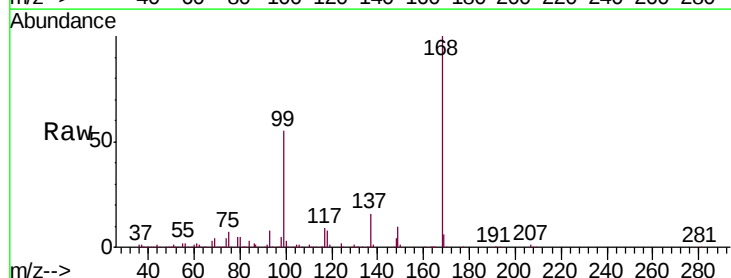
Instrument :
MSVOA_W
ClientSampled :
TP-4

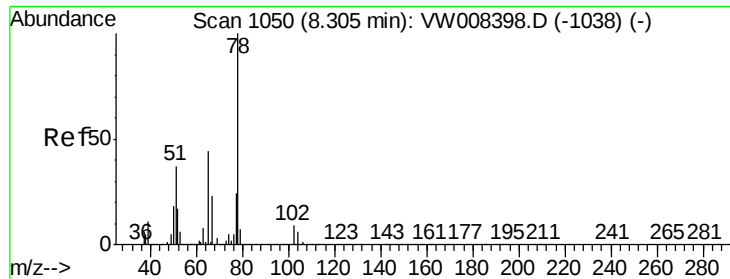
Tgt Ion: 42 Resp: 798
Ion Ratio Lower Upper
42 100
72 38.0 31.9 47.9
71 61.2 29.9 44.9#



#31
Cyclohexane
Concen: 1.387 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008465.D
Acq: 30 Jan 2019 14:58

Tgt Ion: 56 Resp: 9372
Ion Ratio Lower Upper
56 100
69 151.3 26.4 39.6#
84 121.6 69.1 103.7#

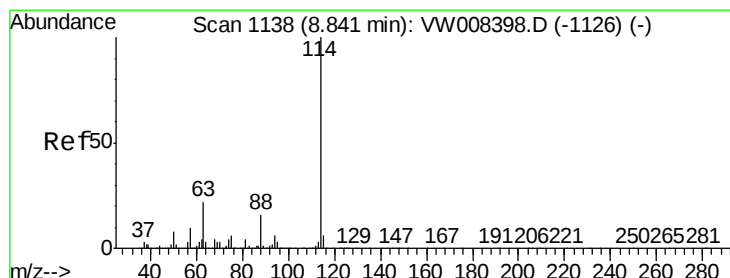
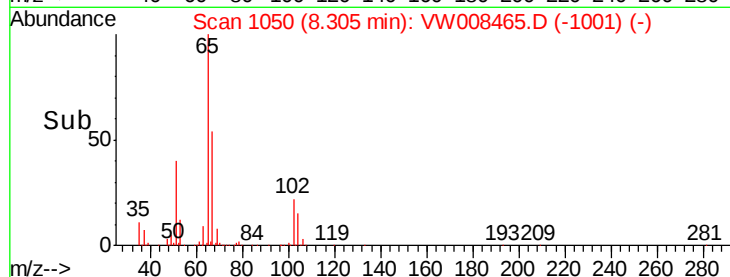
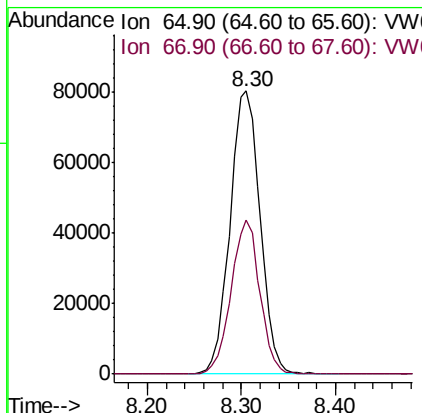
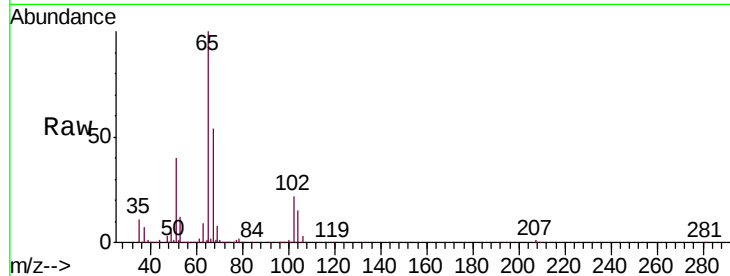




#33
 1,2-Dichloroethane-d4
 Concen: 51.869 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW008465.D
 Acq: 30 Jan 2019 14:58

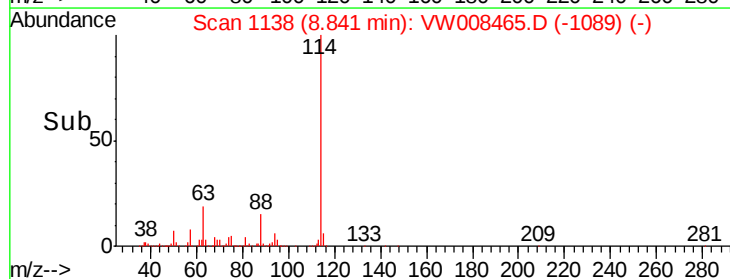
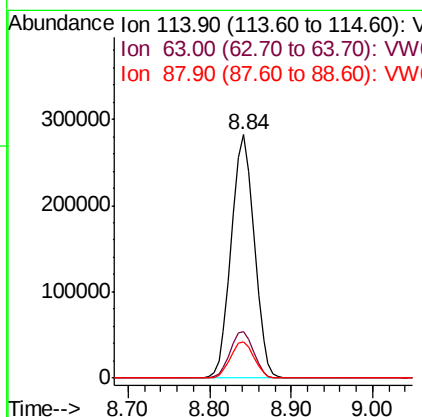
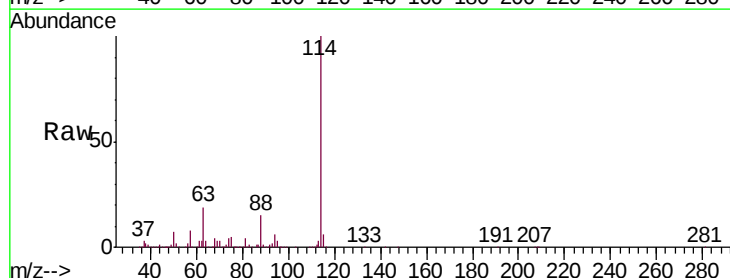
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-4

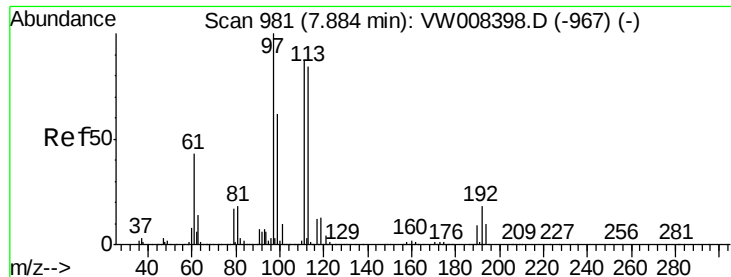
Tgt Ion: 65 Resp: 178606
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008465.D
 Acq: 30 Jan 2019 14:58

Tgt Ion: 114 Resp: 546158
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 43.6
 88 14.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 56.194 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW008465.D

Acq: 30 Jan 2019 14:58

Instrument :

MSVOA_W

ClientSampled :

TP-4

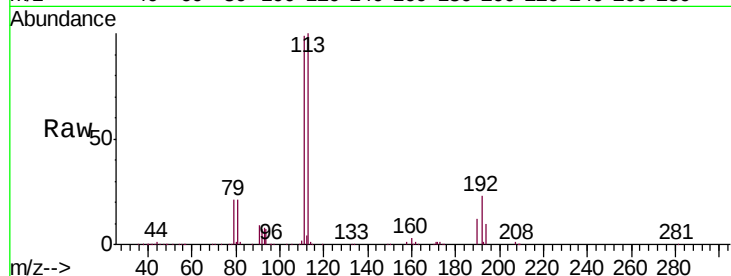
Tgt Ion:113 Resp: 179461

Ion Ratio Lower Upper

113 100

111 102.0 81.0 121.4

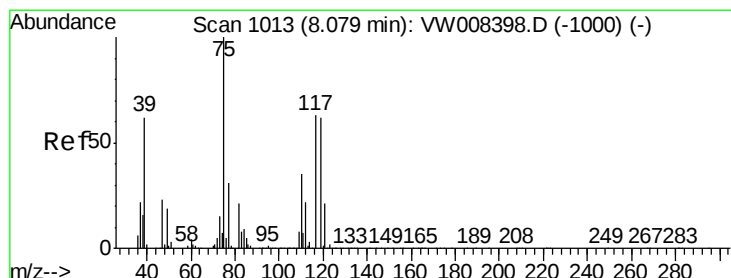
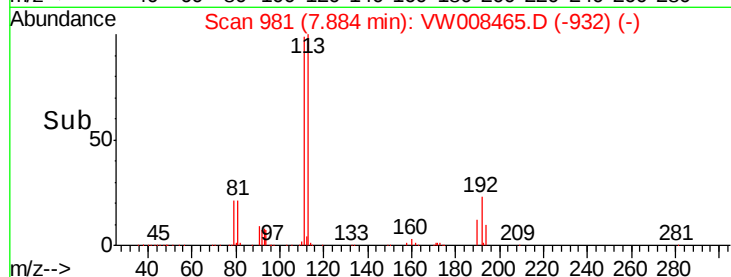
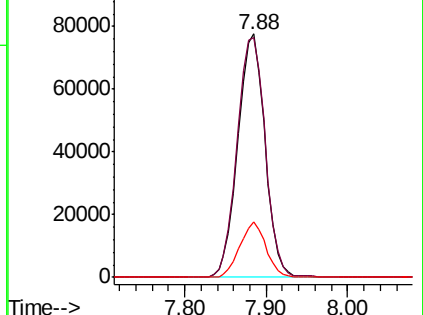
192 22.1 16.8 25.2



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: 4.590 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008465.D

Acq: 30 Jan 2019 14:58

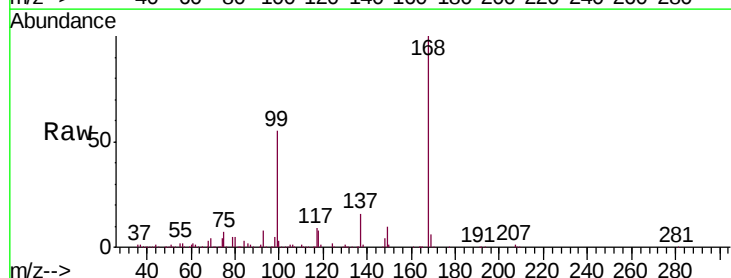
Tgt Ion: 75 Resp: 23679

Ion Ratio Lower Upper

75 100

110 9.3 17.3 52.0#

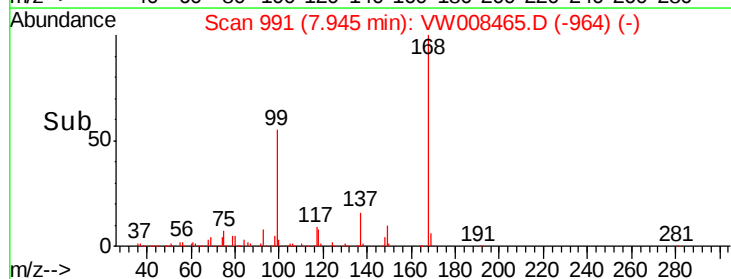
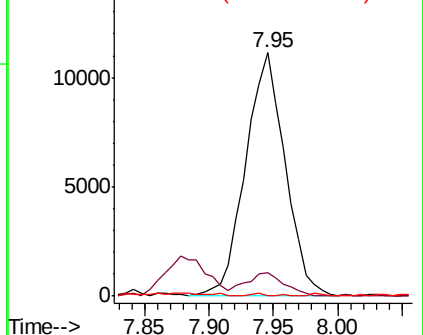
77 0.3 24.7 37.1#

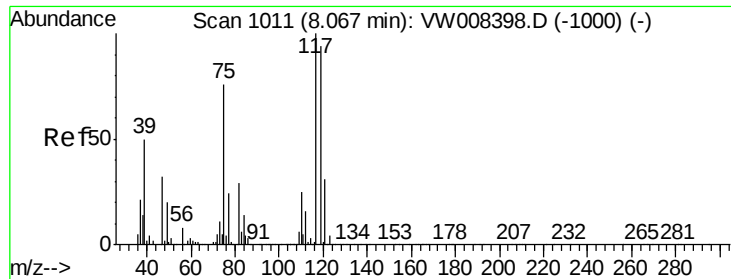


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.219 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW008465.D

Acq: 30 Jan 2019 14:58

Instrument :

MSVOA_W

ClientSampleId :

TP-4

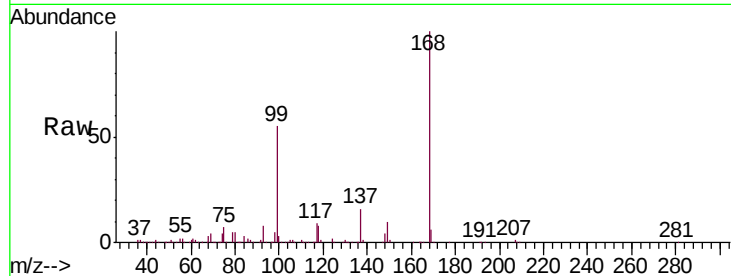
Tgt Ion: 117 Resp: 32286

Ion Ratio Lower Upper

117 100

119 5.4 75.0 112.4#

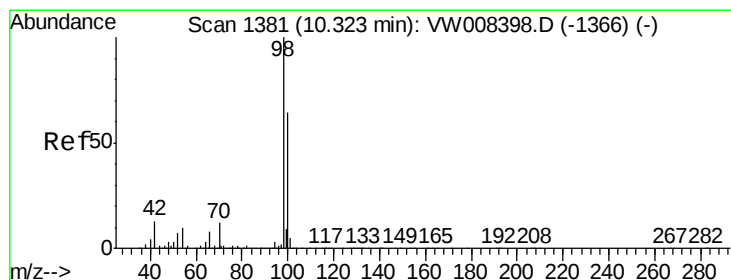
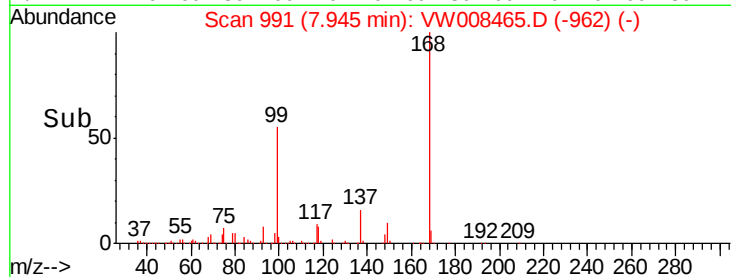
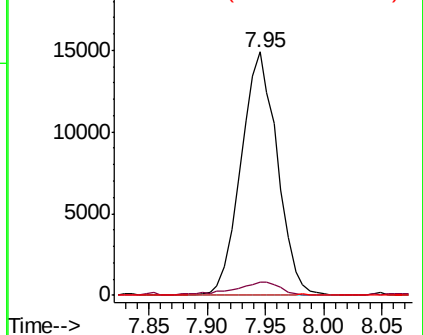
121 0.0 24.9 37.3#



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: 48.562 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008465.D

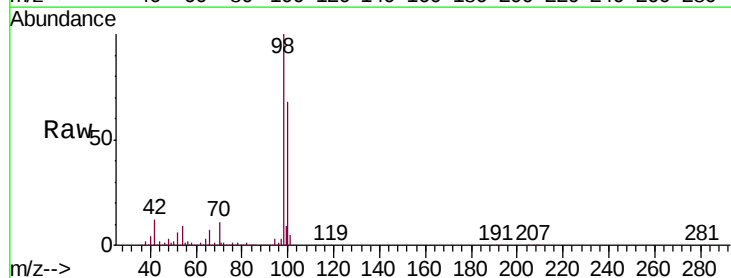
Acq: 30 Jan 2019 14:58

Tgt Ion: 98 Resp: 621901

Ion Ratio Lower Upper

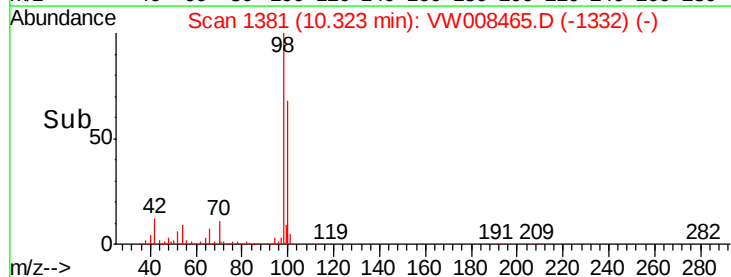
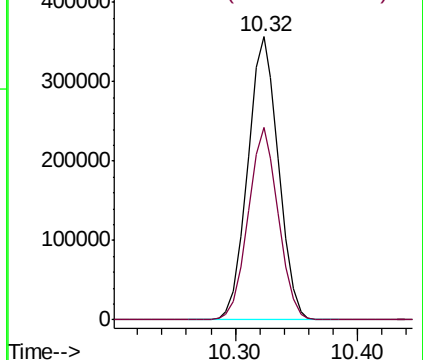
98 100

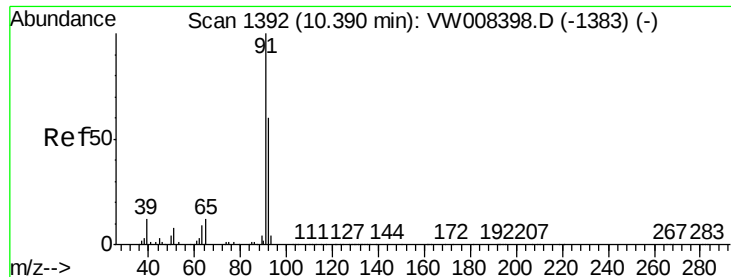
100 66.5 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 4.962 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008465.D

Acq: 30 Jan 2019 14:58

Instrument :

MSVOA_W

ClientSampled :

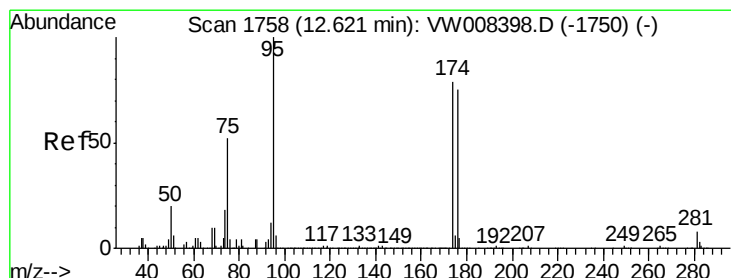
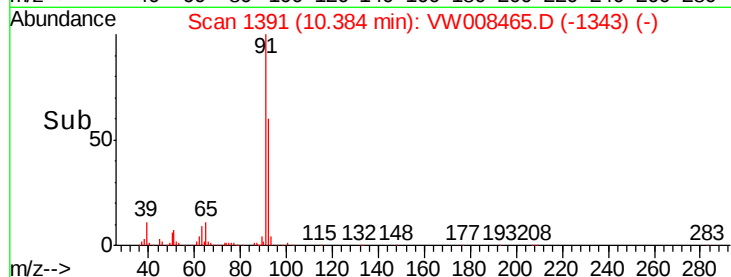
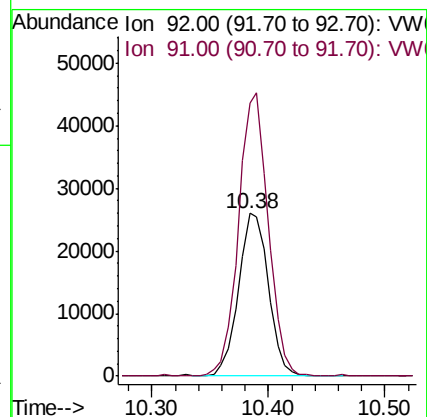
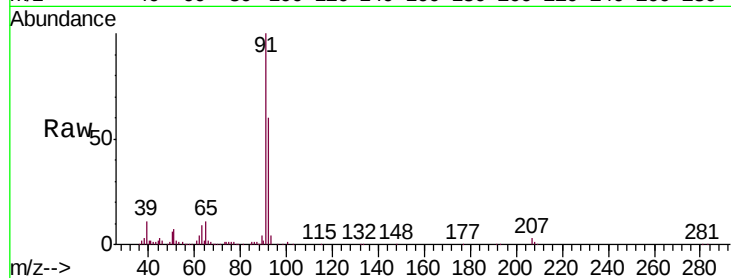
TP-4

Tgt Ion: 92 Resp: 46889

Ion Ratio Lower Upper

92 100

91 171.1 135.5 203.3



#62

4-Bromofluorobenzene

Concen: 29.328 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008465.D

Acq: 30 Jan 2019 14:58

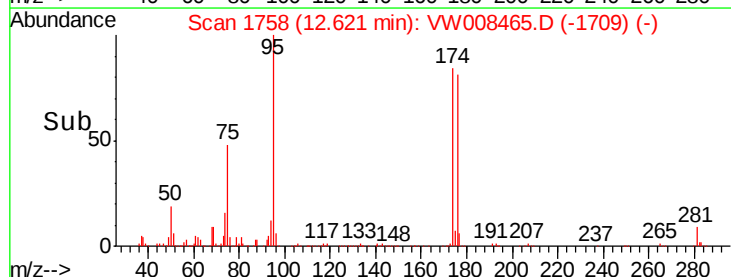
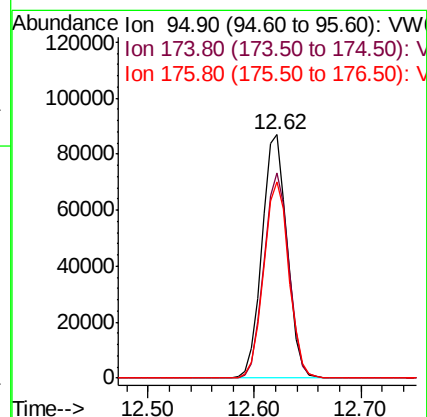
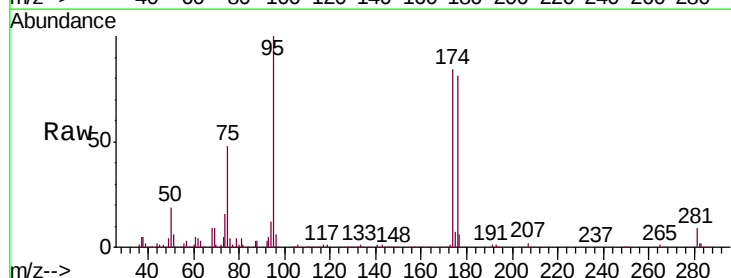
Tgt Ion: 95 Resp: 144370

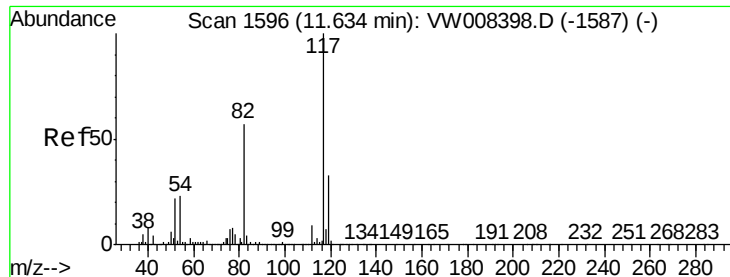
Ion Ratio Lower Upper

95 100

174 83.6 0.0 157.6

176 80.5 0.0 151.8

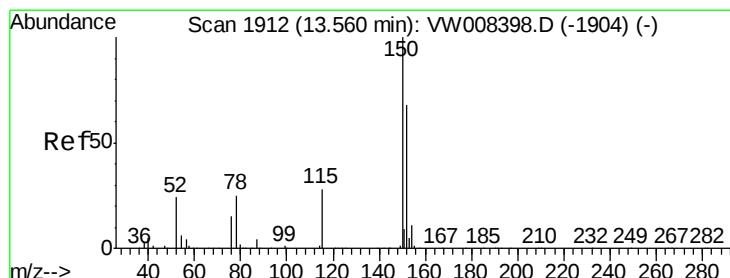
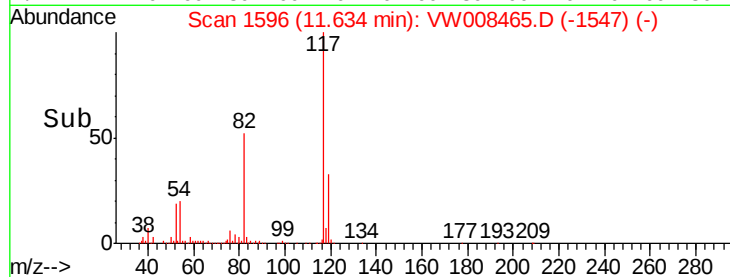
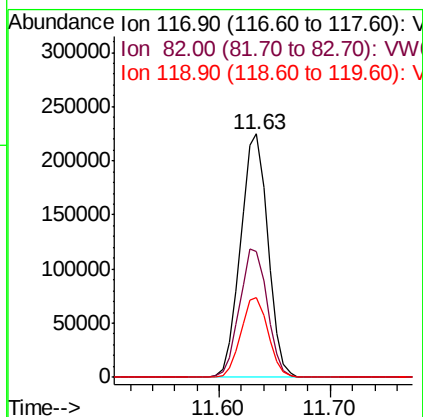
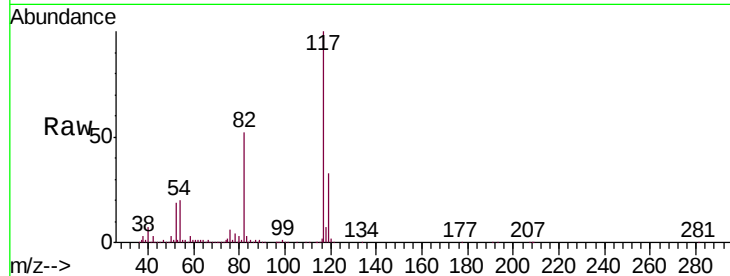




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW008465.D
Acq: 30 Jan 2019 14:58

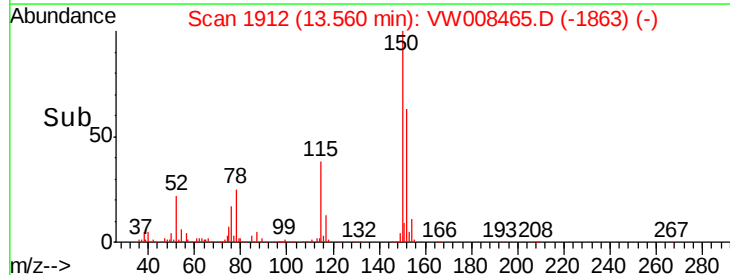
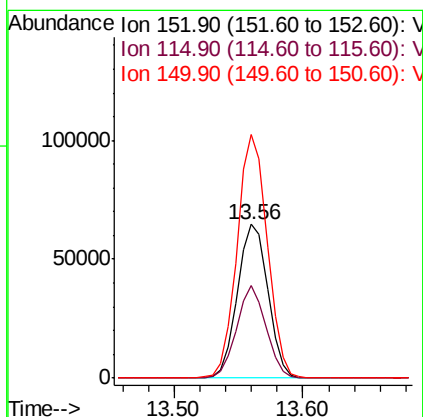
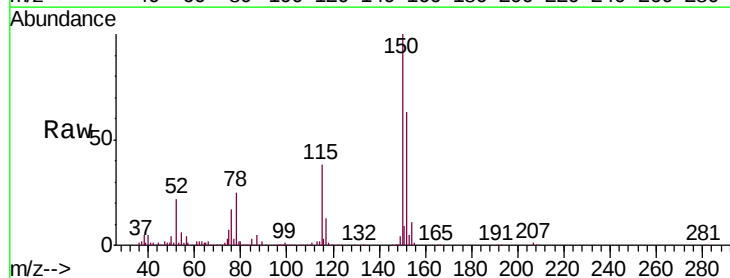
Instrument :
MSVOA_W
ClientSampleId :
TP-4

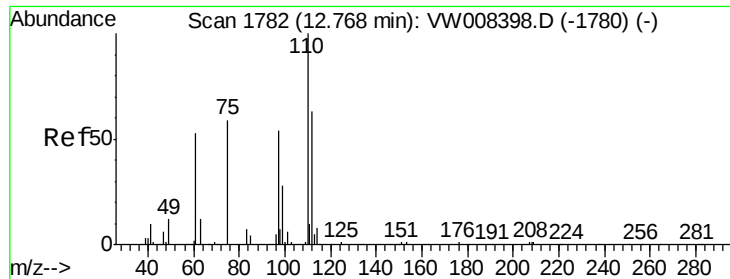
Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.9	45.4	68.0
119	32.7	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW008465.D
Acq: 30 Jan 2019 14:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.9	89.7
150	155.7	0.0	351.4

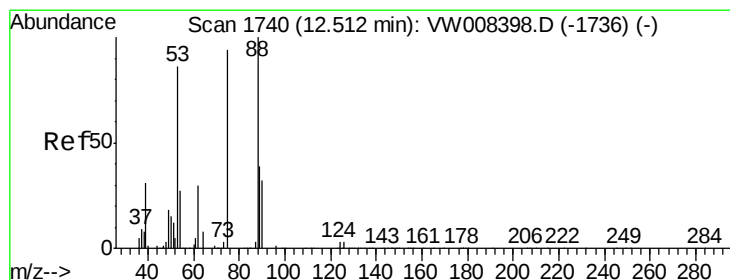
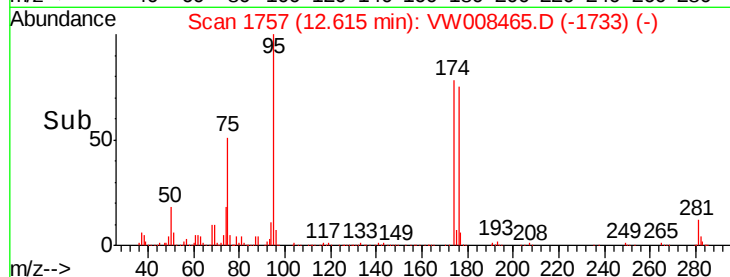
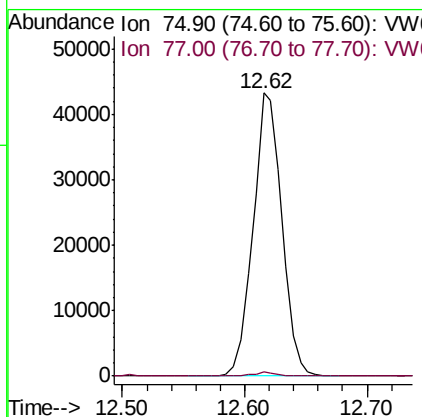
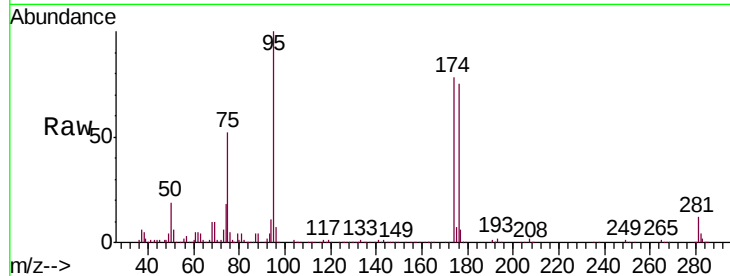




#76
 1,2,3-Trichloropropane
 Concen: 76.752 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW008465.D
 Acq: 30 Jan 2019 14:58

Instrument :
 MSVOA_W
 ClientSampleID :
 TP-4

Tgt Ion: 75 Resp: 71045
 Ion Ratio Lower Upper
 75 100
 77 1.4 180.7 542.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 151.592 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW008465.D
 Acq: 30 Jan 2019 14:58

Tgt Ion: 75 Resp: 71045
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.0 114.0#
 89 0.1 35.4 53.0#

