

Data File : VW008783.D
Acq On : 21 Feb 2019 21:17
Operator : SY/VA
Sample : K1547-02RE
Misc : 7.19G/5ML/MSVOA_W/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
TP-1-S2

Quant Time: Feb 22 00:50:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W022119S.M
Quant Title : SW846 8260
QLast Update : Fri Feb 22 00:38:32 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	343445	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	536804	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	444241	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	180556	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	188279	58.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.90%	
35) Dibromofluoromethane	7.88	113	166717	51.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.46%	
50) Toluene-d8	10.32	98	626118	50.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.64%	
62) 4-Bromofluorobenzene	12.62	95	188643	38.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.44%	

Target Compounds

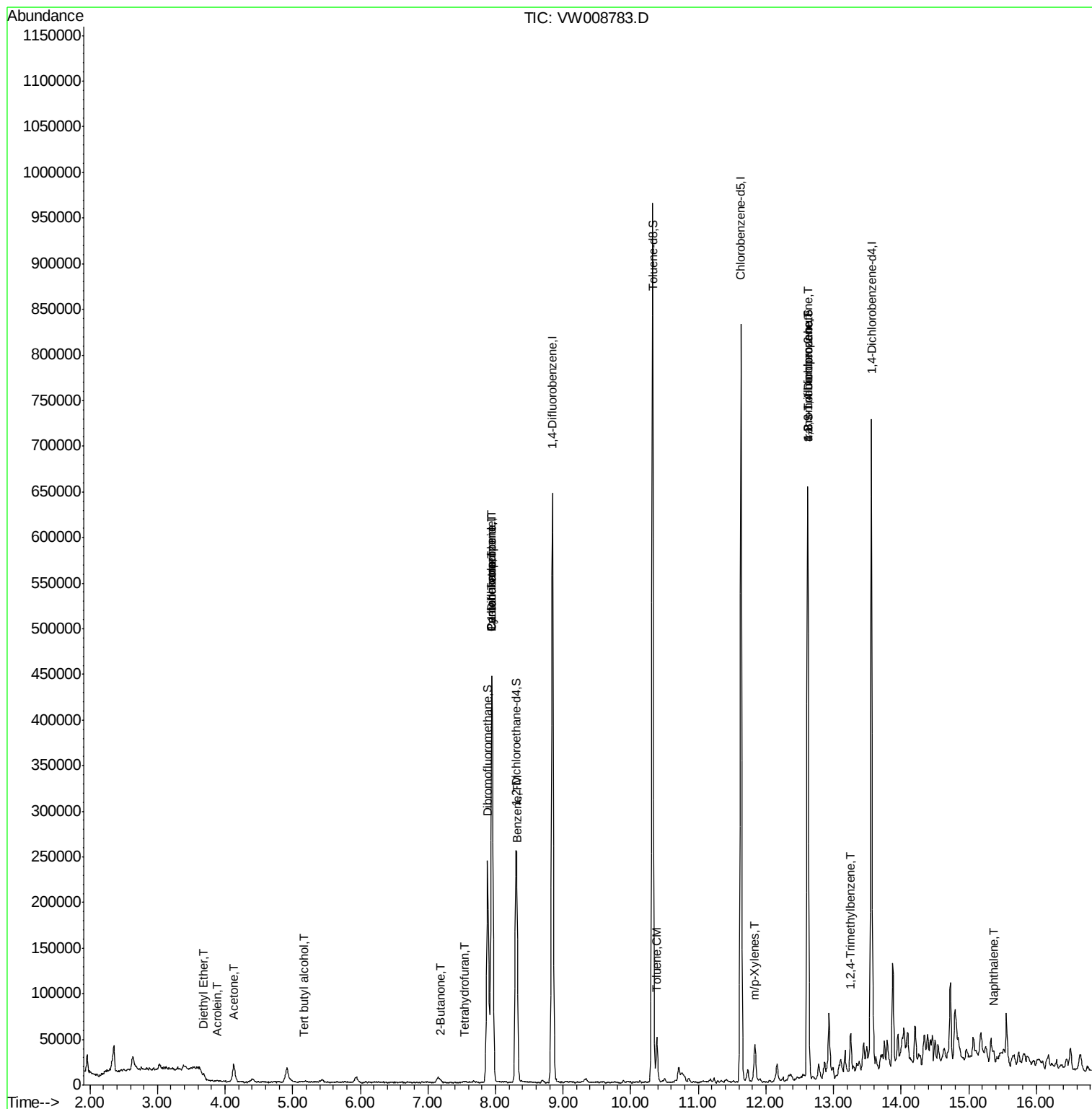
						Qvalue
8) Diethyl Ether	3.69	74	3264	1.839	ug/l	84
11) Tert butyl alcohol	5.17	59	1726	6.019	ug/l #	92
13) Acrolein	3.89	56	82	20.030	ug/l #	14
16) Acetone	4.13	43	33231	44.507	ug/l	95
20) Methylene Chloride	4.92	84	10859	Below Cal	#	87
25) 2-Butanone	7.19	43	2111	2.022	ug/l #	74
29) Tetrahydrofuran	7.54	42	1430	2.150	ug/l #	44
31) Cyclohexane	7.94	56	8905	1.466	ug/l #	59
36) 1,1-Dichloropropene	7.95	75	25558	4.891	ug/l #	50
38) Carbon Tetrachloride	7.95	117	32469	5.892	ug/l #	18
40) Benzene	8.32	78	27075	1.898	ug/l	97
52) Toluene	10.38	92	20903	2.159	ug/l	100
68) m/p-Xylenes	11.83	106	9717	1.456	ug/l	92
76) 1,2,3-Trichloropropane	12.62	75	100375	67.333	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	100375	163.691	ug/l #	6
84) 1,2,4-Trimethylbenzene	13.25	105	23549	2.115	ug/l	97
95) Naphthalene	15.37	128	8373	1.262	ug/l #	69

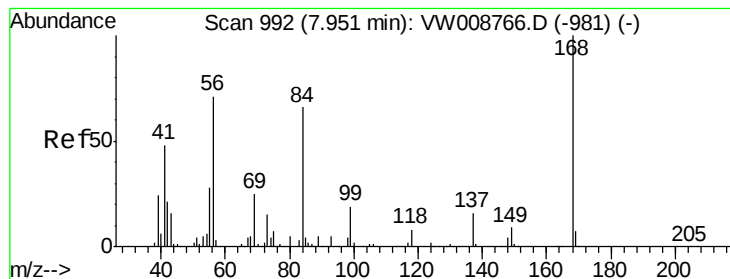
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW008783.D

Acq: 21 Feb 2019 21:17

Instrument :

MSVOA_W

ClientSampleId :

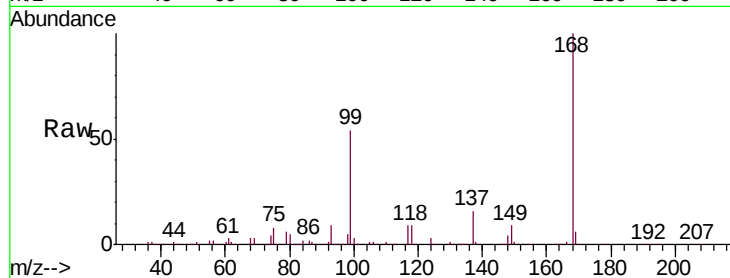
TP-1-S2

Tgt Ion:168 Resp: 343445

Ion Ratio Lower Upper

168 100

99 54.4 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

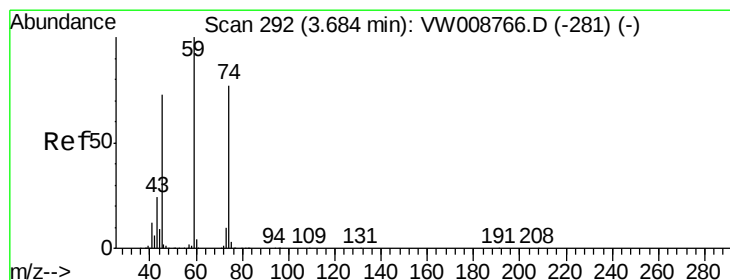
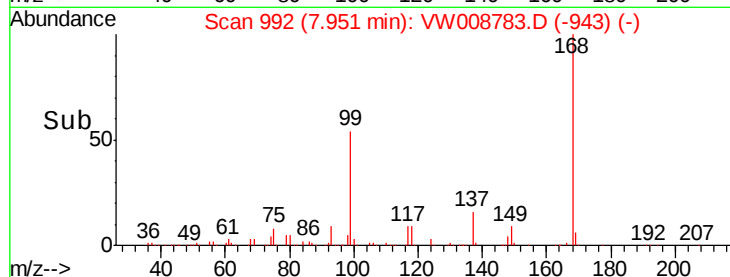
100000

50000

0

7.90 8.00 8.10

Time-->



#8

Diethyl Ether

Concen: 1.839 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW008783.D

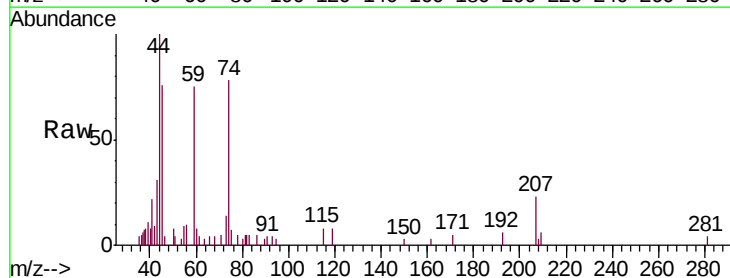
Acq: 21 Feb 2019 21:17

Tgt Ion: 74 Resp: 3264

Ion Ratio Lower Upper

74 100

45 84.8 50.2 150.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.69

1500

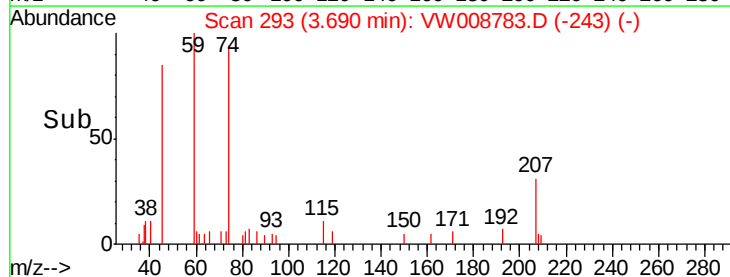
1000

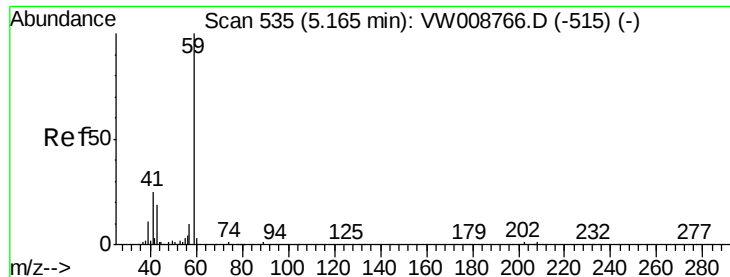
500

0

3.60 3.65 3.70 3.75

Time-->

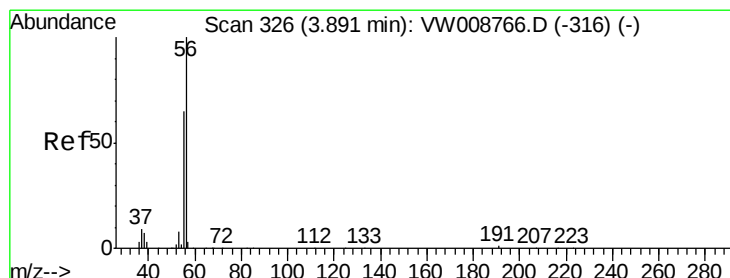
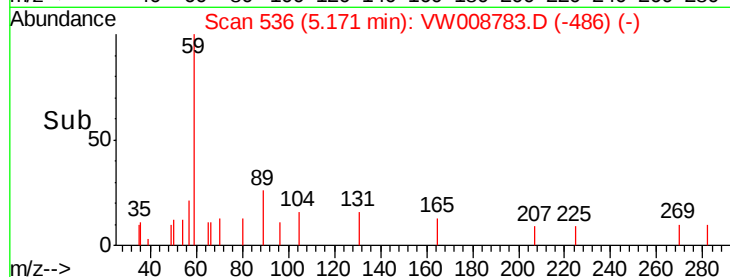
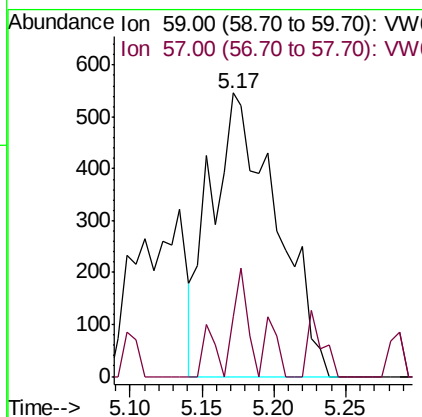
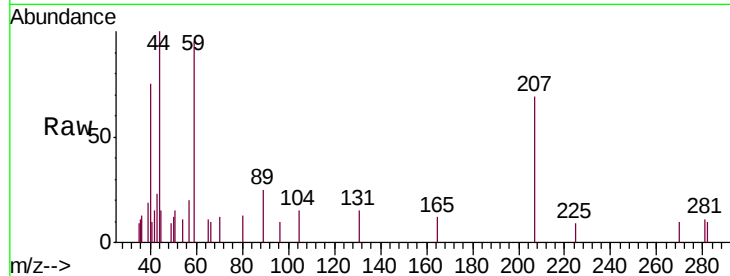




#11
Tert butyl alcohol
Concen: 6.019 ug/l
RT: 5.17 min Scan# 536
Delta R.T. 0.01 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

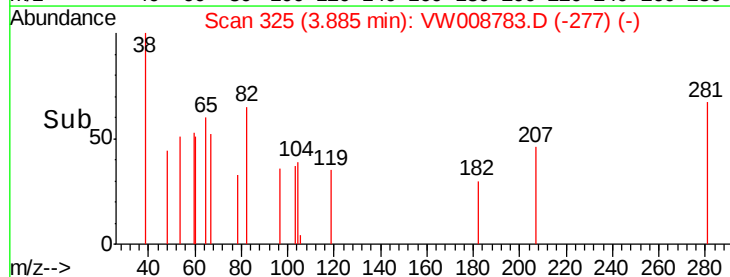
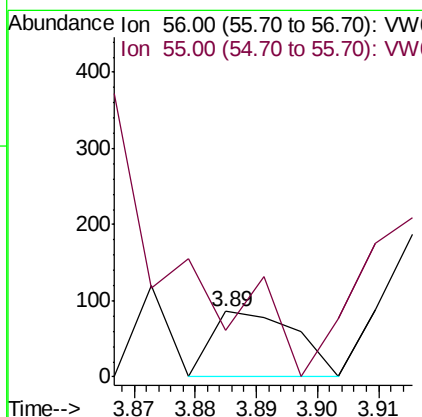
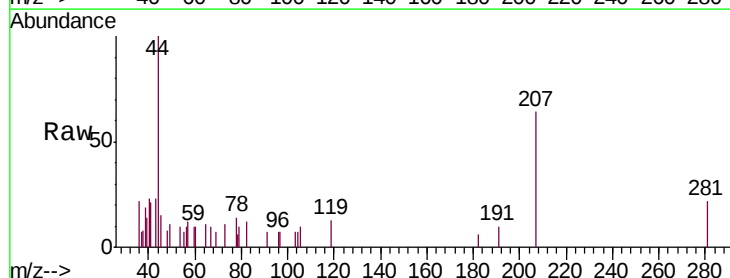
Instrument :
MSVOA_W
ClientSampled :
TP-1-S2

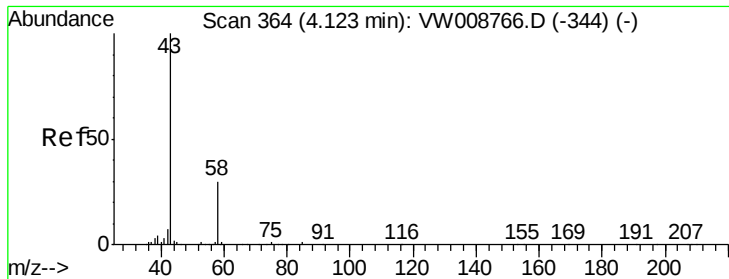
Tgt Ion: 59 Resp: 1726
Ion Ratio Lower Upper
59 100
57 8.6 9.3 13.9#



#13
Acrolein
Concen: 20.030 ug/l
RT: 3.89 min Scan# 325
Delta R.T. -0.01 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

Tgt Ion: 56 Resp: 82
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#

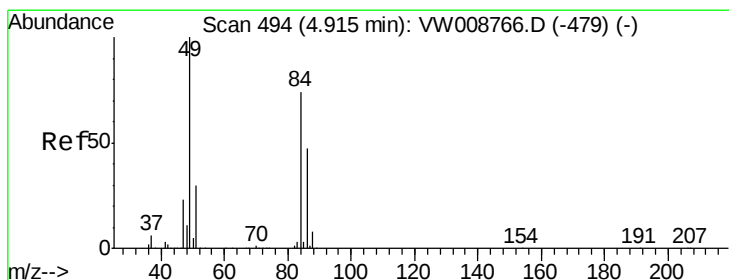
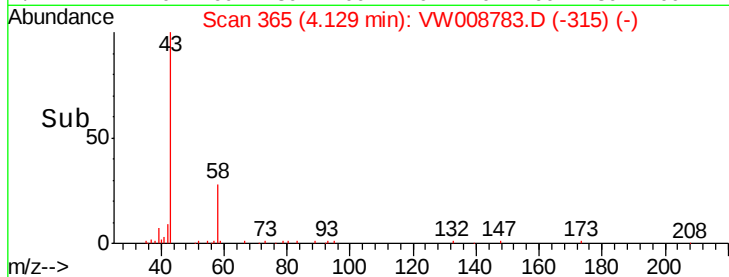
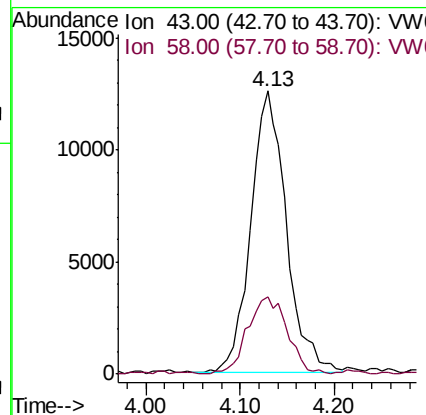
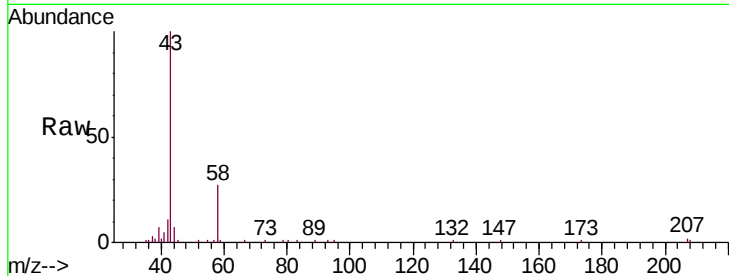




#16
Acetone
Concen: 44.507 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

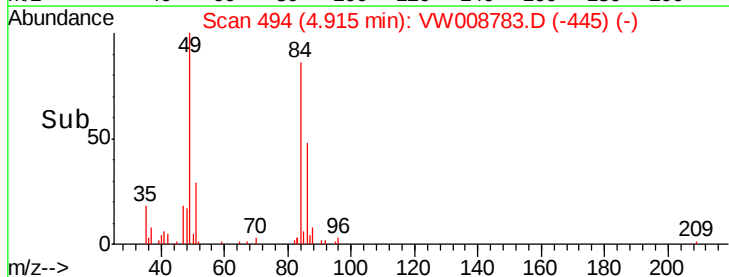
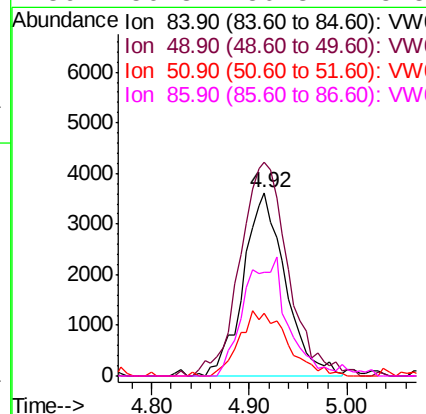
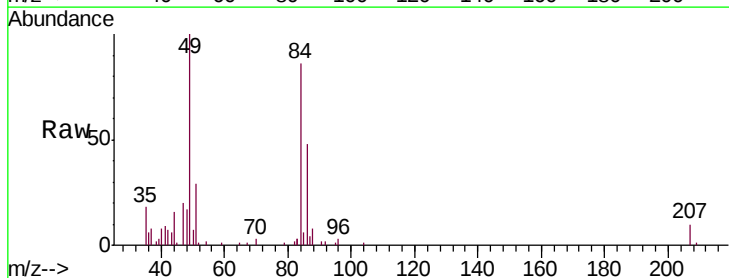
Instrument :
MSVOA_W
ClientSampleId :
TP-1-S2

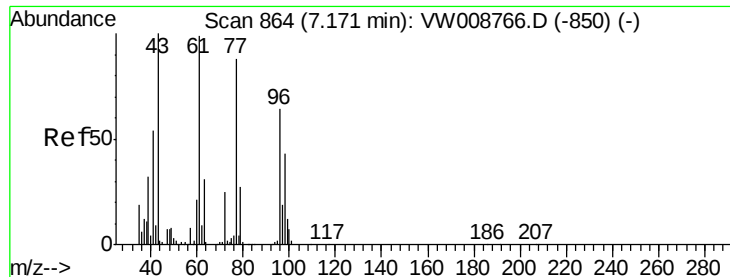
Tgt Ion: 43 Resp: 33231
Ion Ratio Lower Upper
43 100
58 27.0 23.8 35.6



#20
Methylene Chloride
Concen: Below Cal
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

Tgt Ion: 84 Resp: 10859
Ion Ratio Lower Upper
84 100
49 116.6 108.2 162.2
51 32.7 32.7 49.1#
86 56.3 50.3 75.5





#25

2-Butanone

Concen: 2.022 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.02 min

Lab File: VW008783.D

Acq: 21 Feb 2019 21:17

Instrument :

MSVOA_W

ClientSampled :

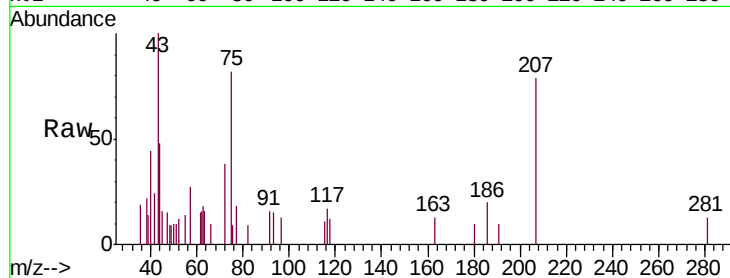
TP-1-S2

Tgt Ion: 43 Resp: 2111

Ion Ratio Lower Upper

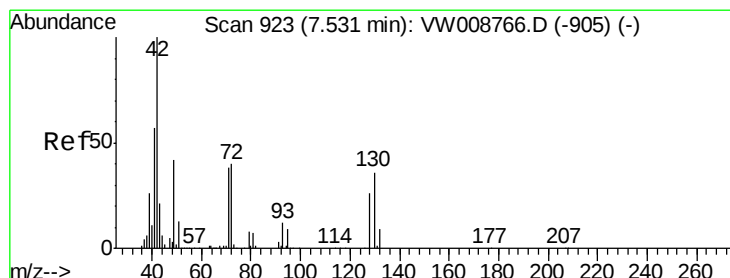
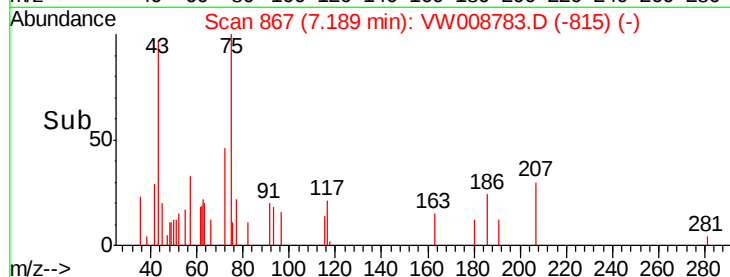
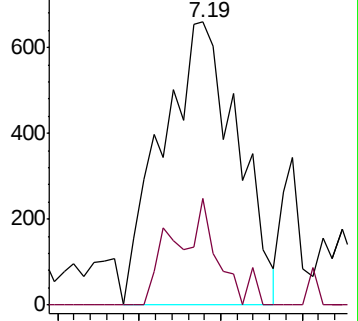
43 100

72 37.8 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 2.150 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW008783.D

Acq: 21 Feb 2019 21:17

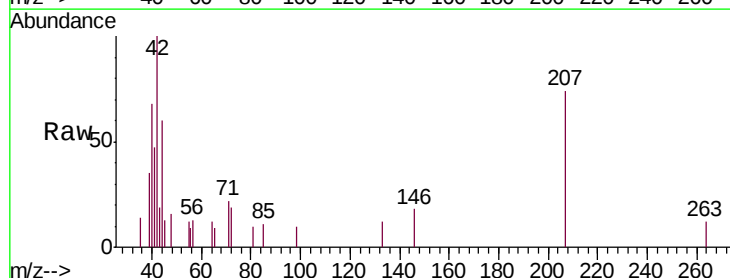
Tgt Ion: 42 Resp: 1430

Ion Ratio Lower Upper

42 100

72 0.0 32.7 49.1#

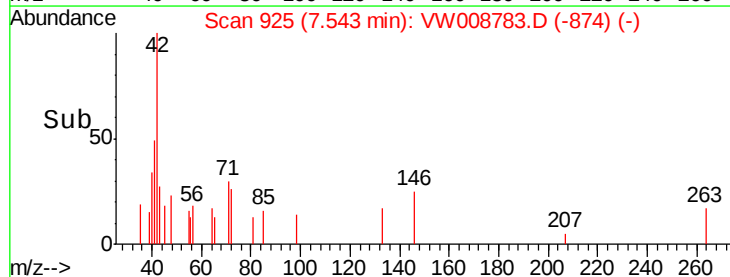
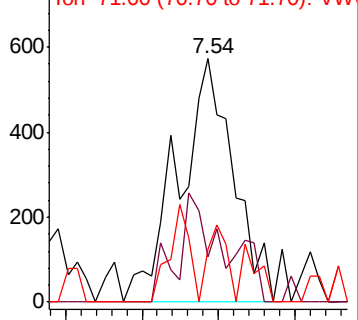
71 11.3 31.3 46.9#

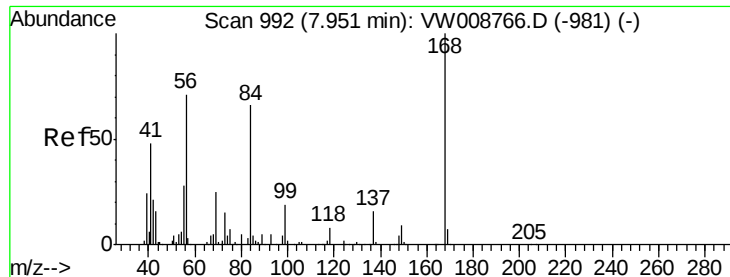


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW

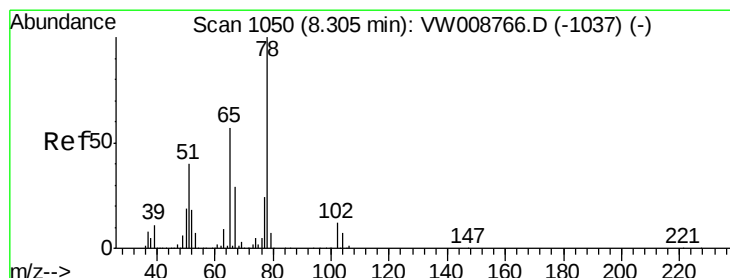
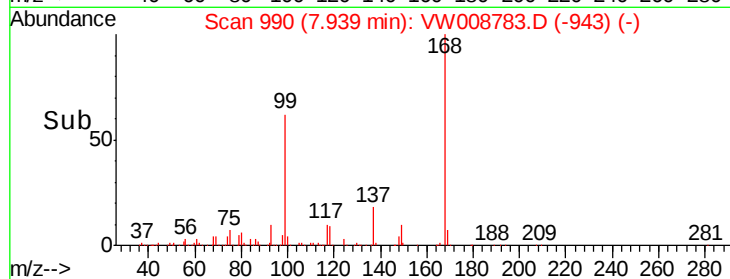
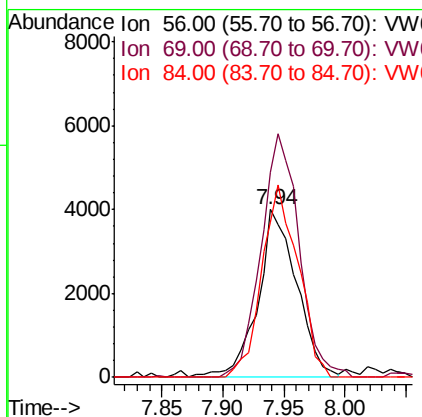
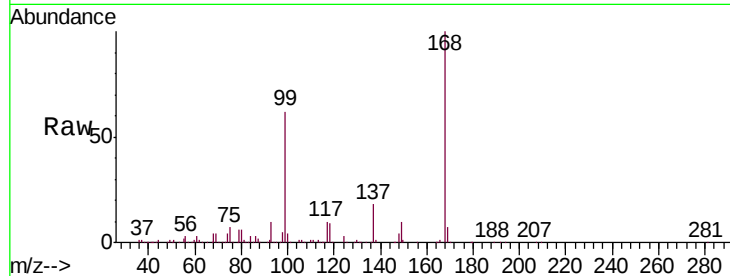




#31
Cyclohexane
Concen: 1.466 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

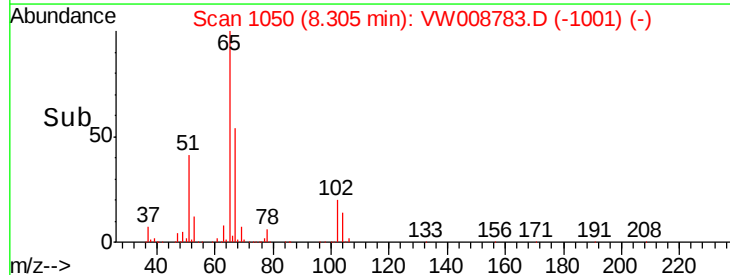
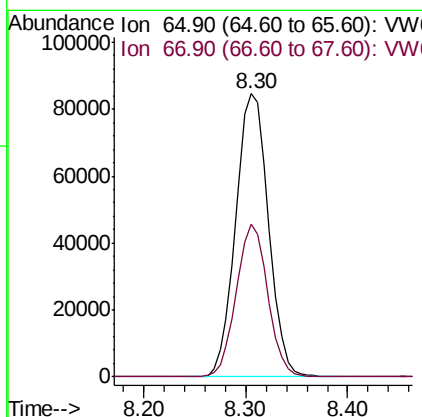
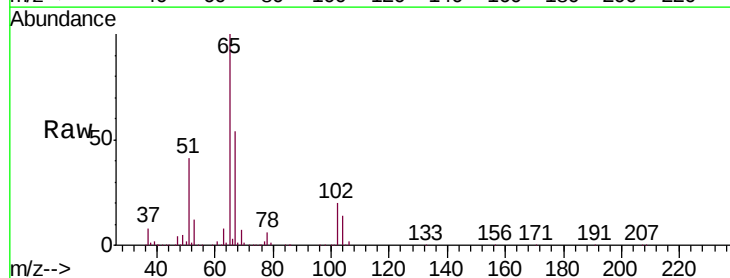
Instrument :
MSVOA_W
ClientSampleId :
TP-1-S2

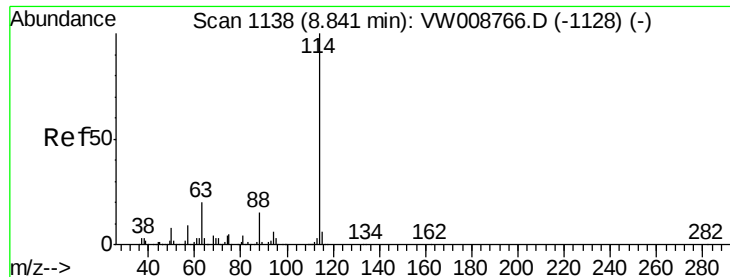
Tgt Ion: 56 Resp: 8905
Ion Ratio Lower Upper
56 100
69 122.5 28.2 42.4#
84 92.6 74.1 111.1



#33
1,2-Dichloroethane-d4
Concen: 58.450 ug/l
RT: 8.30 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

Tgt Ion: 65 Resp: 188279
Ion Ratio Lower Upper
65 100
67 51.8 0.0 101.4

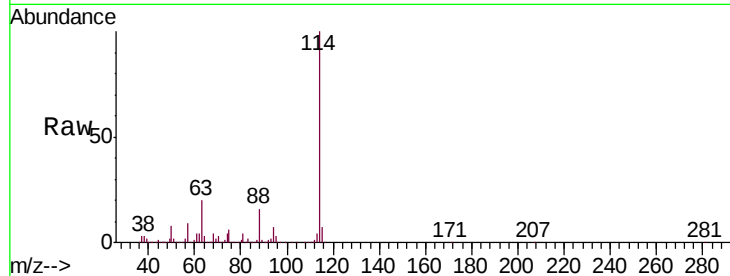




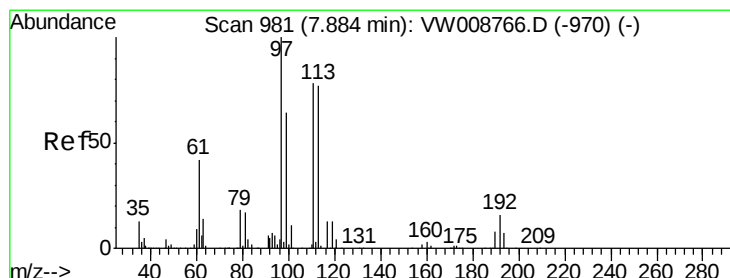
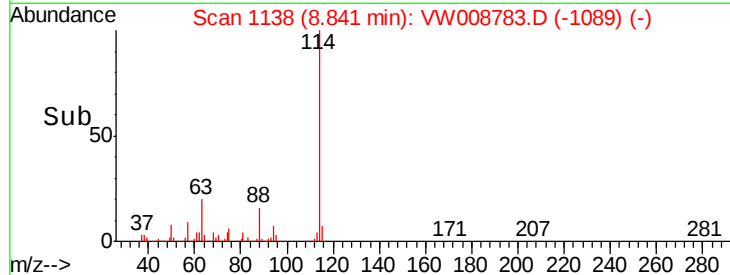
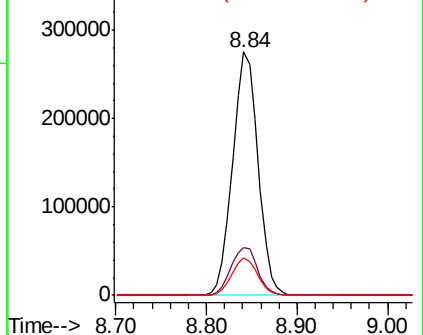
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008783.D
 Acq: 21 Feb 2019 21:17

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1-S2

Tgt Ion:114 Resp: 536804
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 40.8
 88 15.7 0.0 30.4

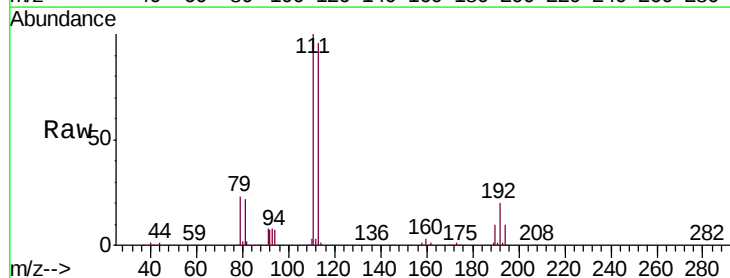


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

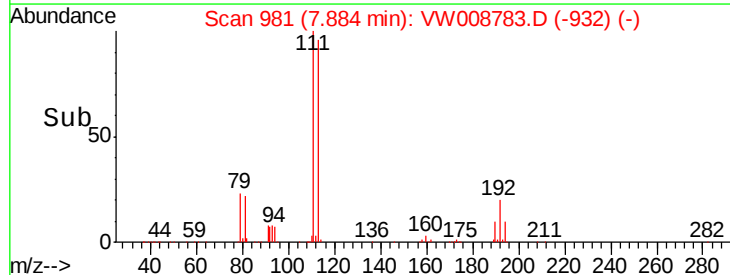
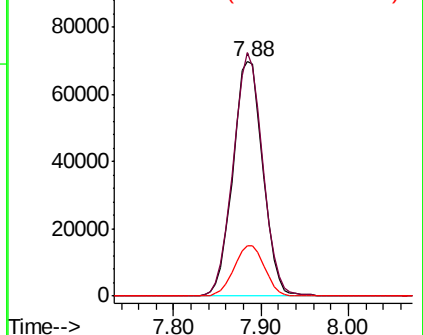


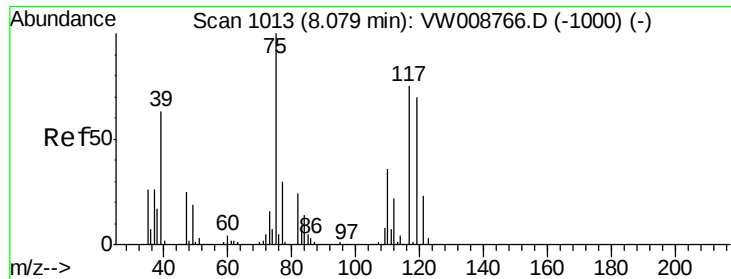
#35
 Dibromofluoromethane
 Concen: 51.727 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW008783.D
 Acq: 21 Feb 2019 21:17

Tgt Ion:113 Resp: 166717
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.9 122.9
 192 21.8 17.1 25.7



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

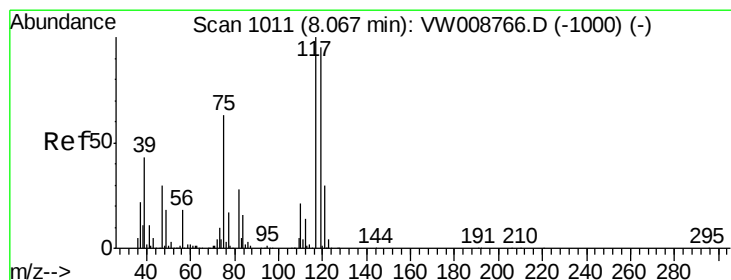
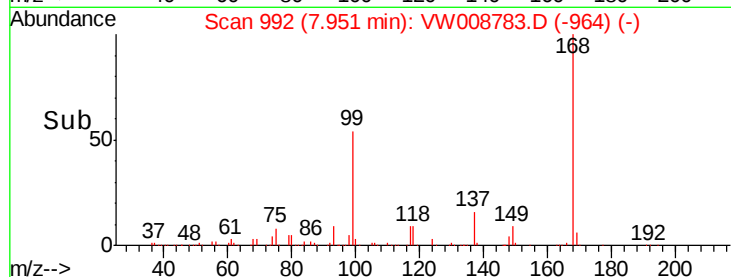
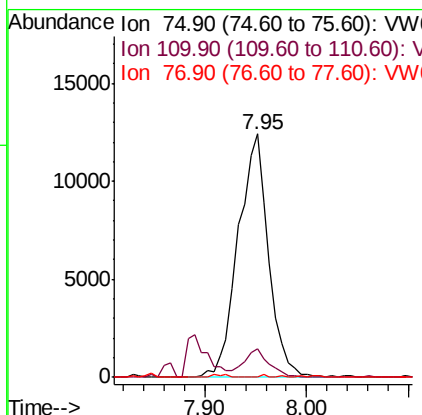
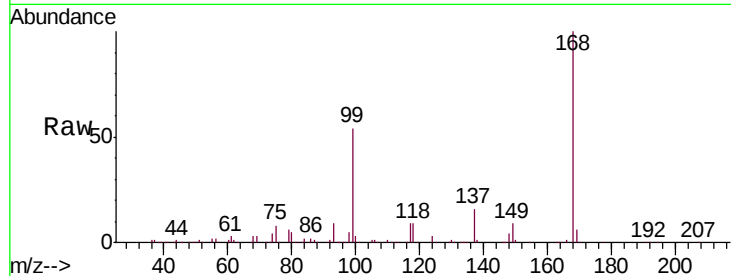




#36
 1,1-Dichloropropene
 Concen: 4.891 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW008783.D
 Acq: 21 Feb 2019 21:17

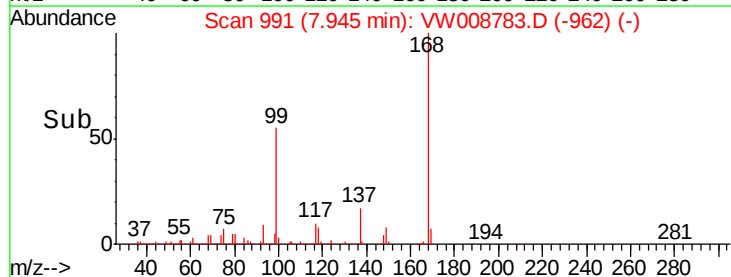
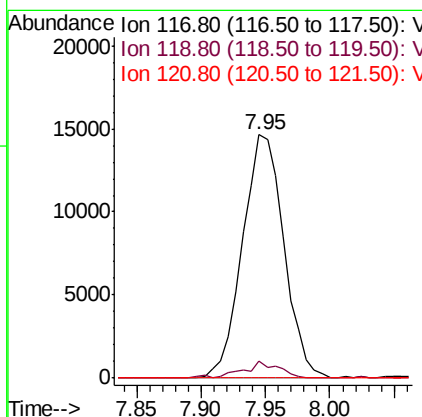
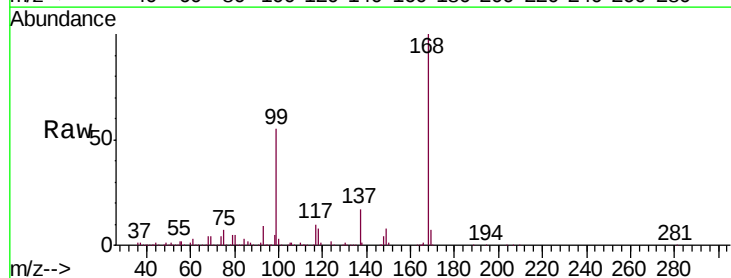
Instrument :
 MSVOA_W
 ClientSampleId :
 TP-1-S2

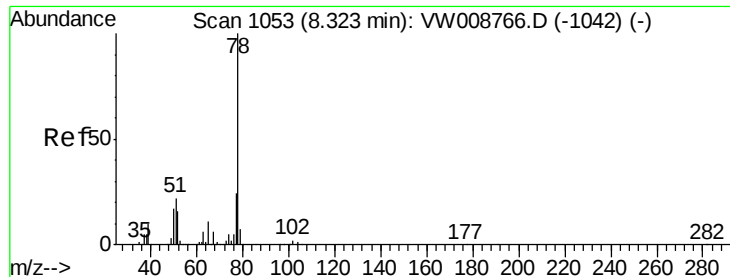
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	17.5	52.6#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 5.892 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW008783.D
 Acq: 21 Feb 2019 21:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.0	76.1	114.1#
121	0.0	24.0	36.0#





#40

Benzene

Concen: 1.898 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW008783.D

Acq: 21 Feb 2019 21:17

Instrument :

MSVOA_W

ClientSampled :

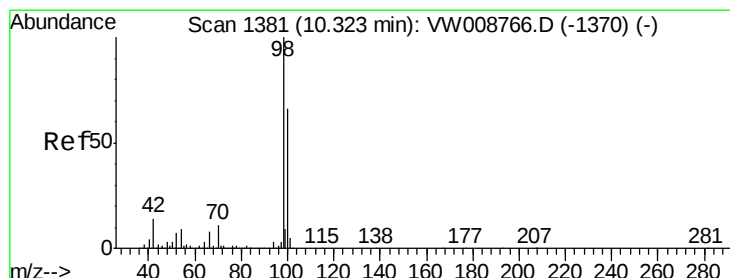
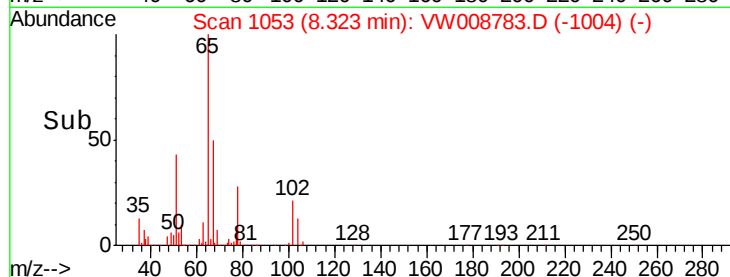
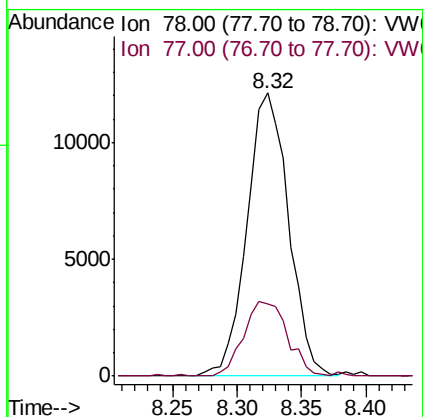
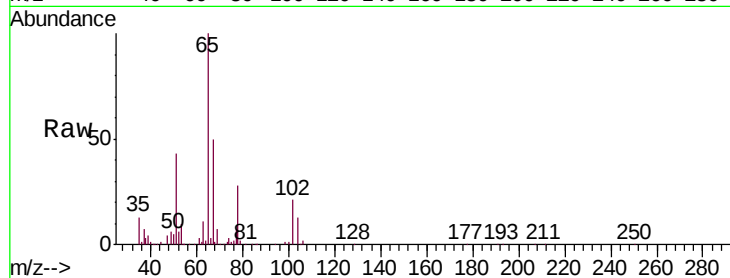
TP-1-S2

Tgt Ion: 78 Resp: 27075

Ion Ratio Lower Upper

78 100

77 25.5 19.3 28.9



#50

Toluene-d8

Concen: 50.323 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW008783.D

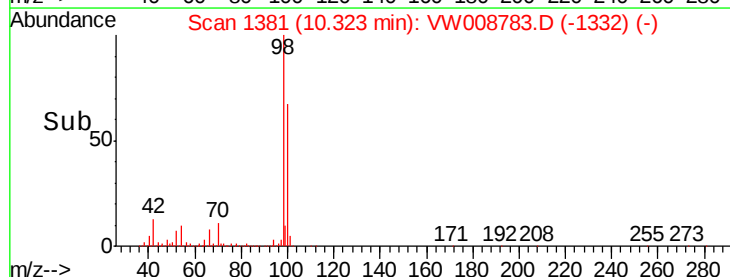
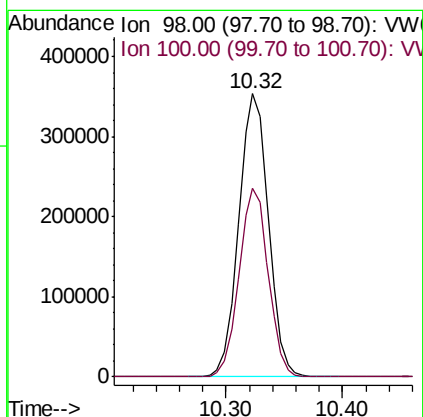
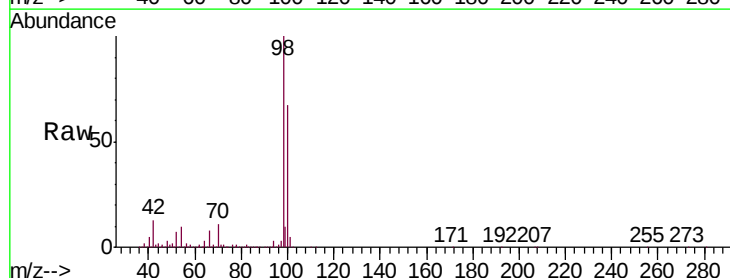
Acq: 21 Feb 2019 21:17

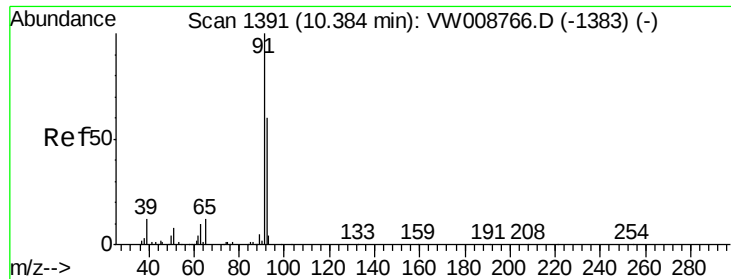
Tgt Ion: 98 Resp: 626118

Ion Ratio Lower Upper

98 100

100 65.9 52.4 78.6





#52

Toluene

Concen: 2.159 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW008783.D

Acq: 21 Feb 2019 21:17

Instrument :

MSVOA_W

ClientSampleId :

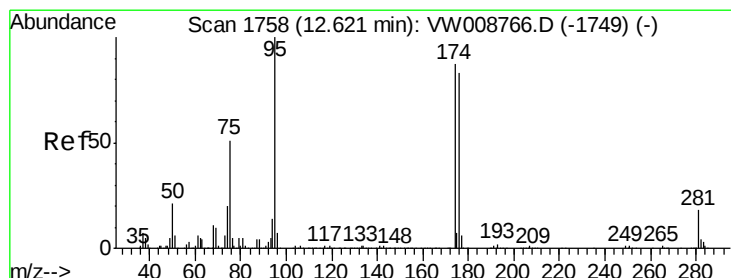
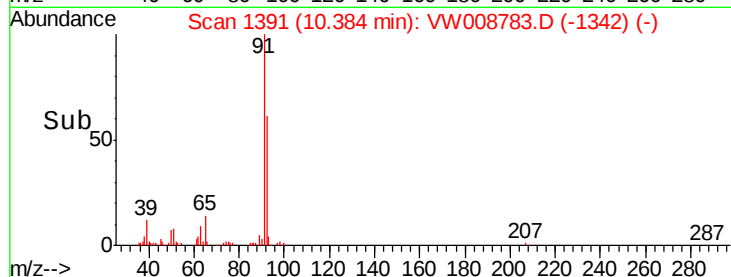
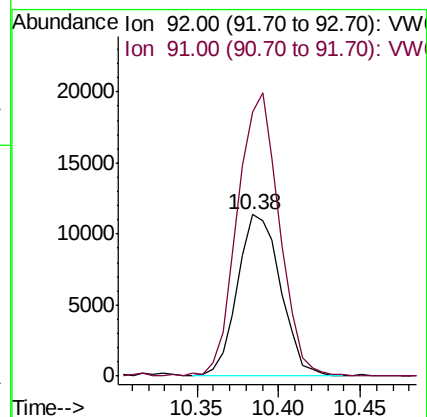
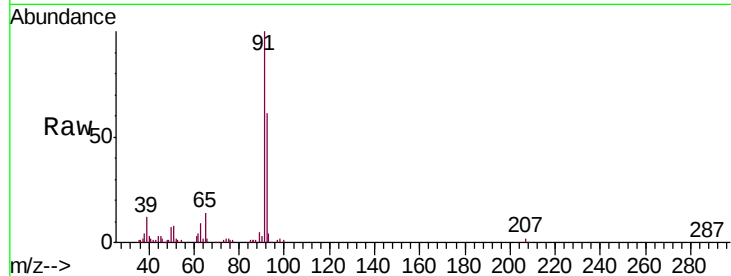
TP-1-S2

Tgt Ion: 92 Resp: 20903

Ion Ratio Lower Upper

92 100

91 170.9 136.9 205.3



#62

4-Bromofluorobenzene

Concen: 38.724 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW008783.D

Acq: 21 Feb 2019 21:17

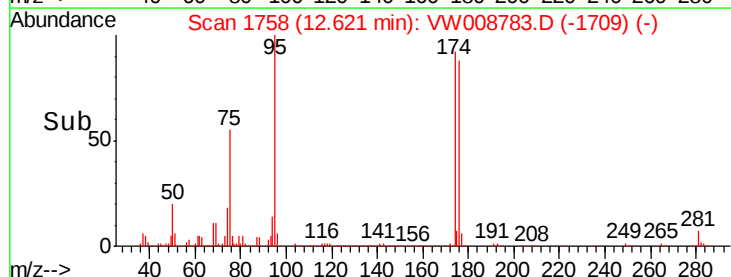
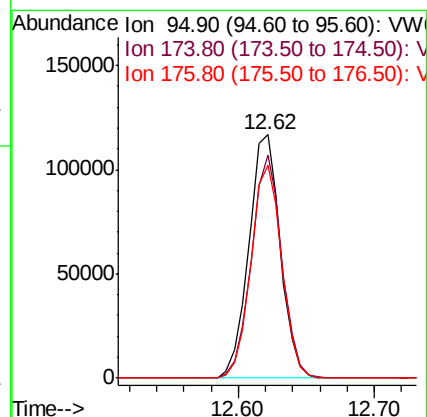
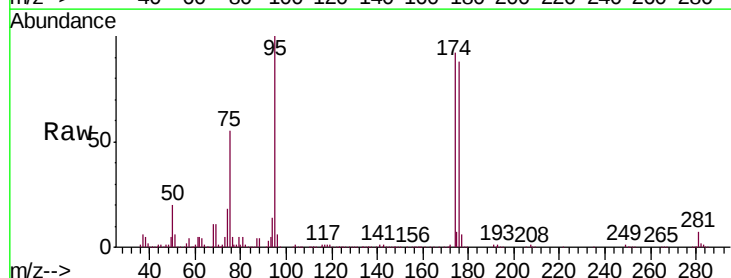
Tgt Ion: 95 Resp: 188643

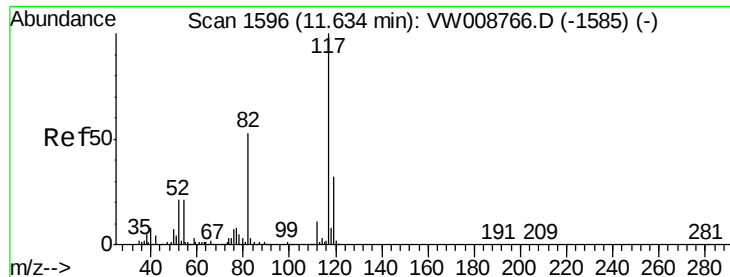
Ion Ratio Lower Upper

95 100

174 88.7 0.0 169.2

176 86.3 0.0 163.6

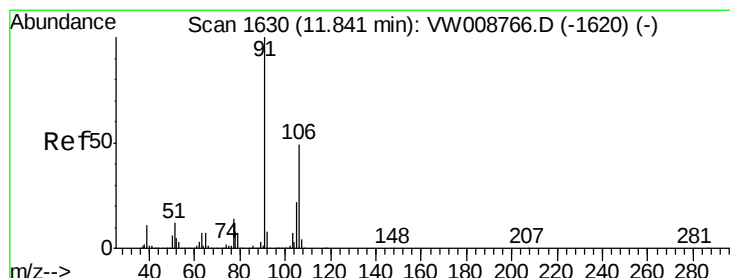
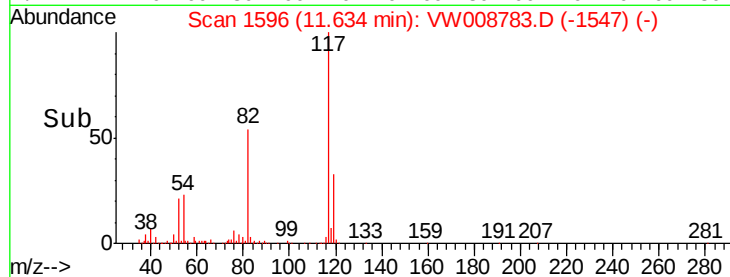
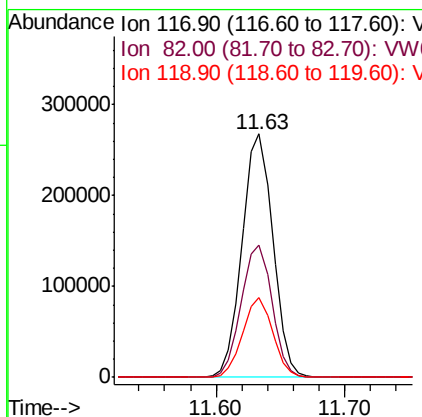
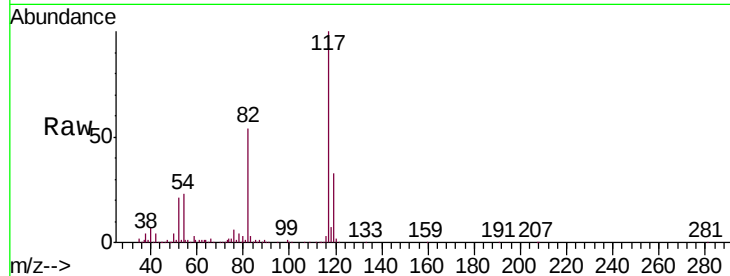




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

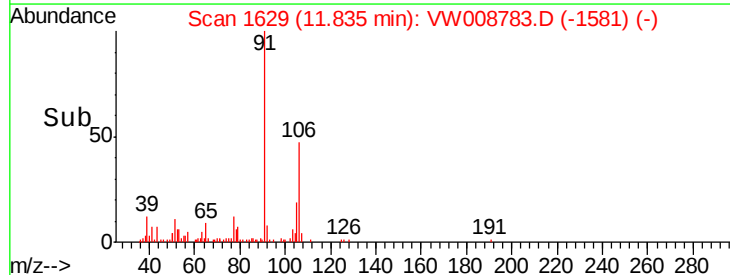
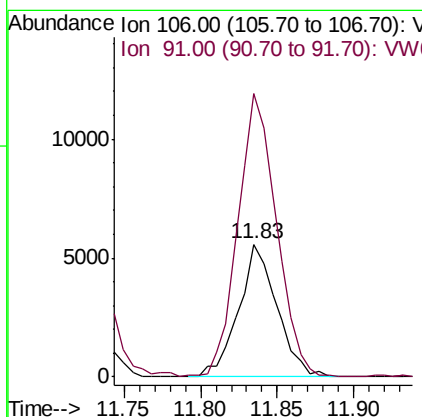
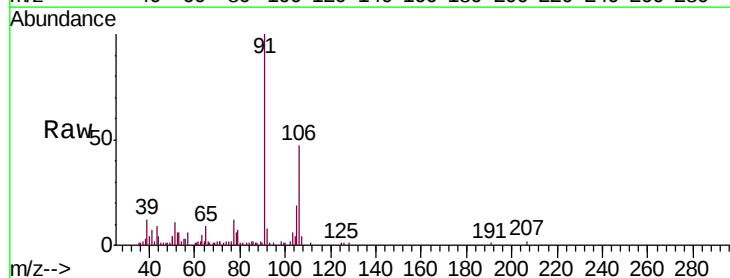
Instrument :
MSVOA_W
ClientSampleId :
TP-1-S2

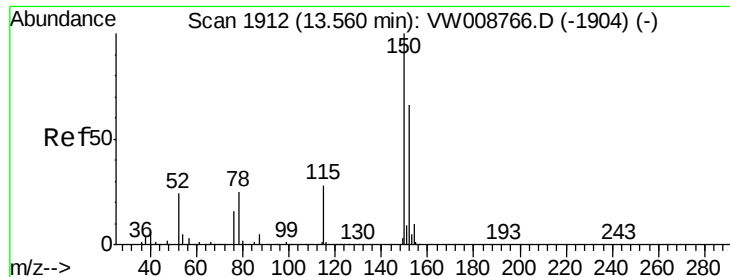
Tgt Ion:117 Resp: 444241
Ion Ratio Lower Upper
117 100
82 54.2 42.2 63.4
119 32.6 25.9 38.9



#68
m/p-Xylenes
Concen: 1.456 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

Tgt Ion:106 Resp: 9717
Ion Ratio Lower Upper
106 100
91 214.2 161.5 242.3



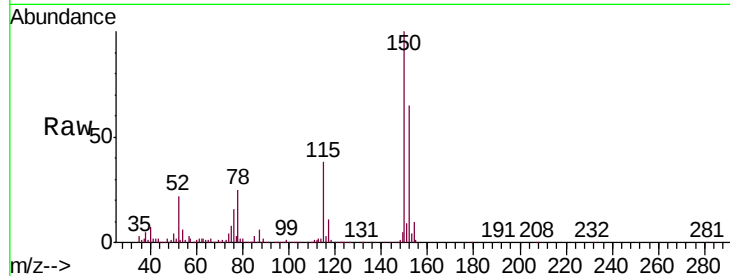


#72

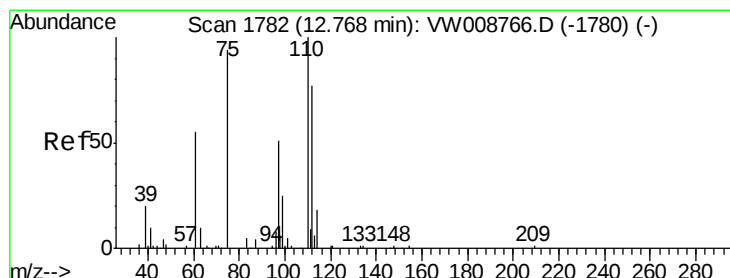
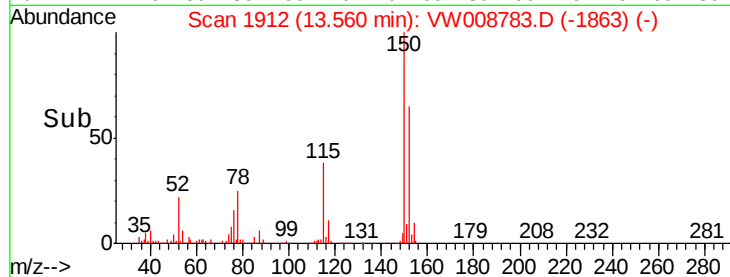
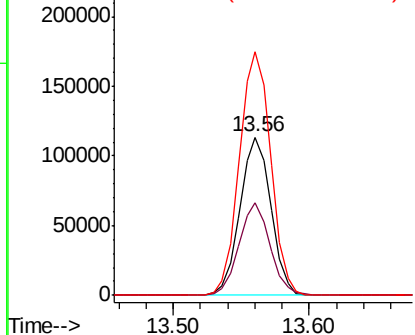
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

Instrument :
MSVOA_W
ClientSampleId :
TP-1-S2

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.5	28.6	85.8
150	156.0	0.0	348.0



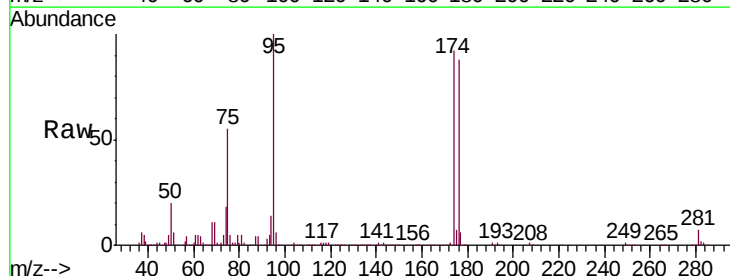
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



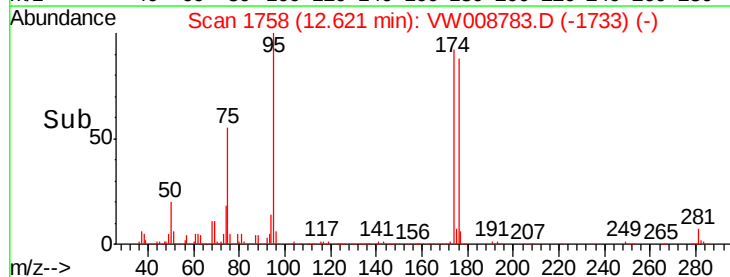
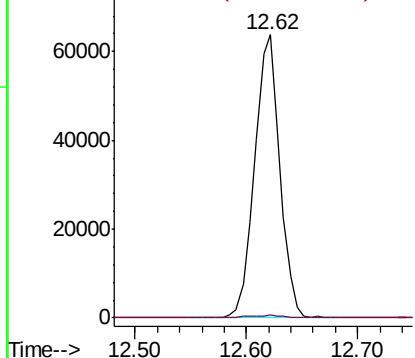
#76

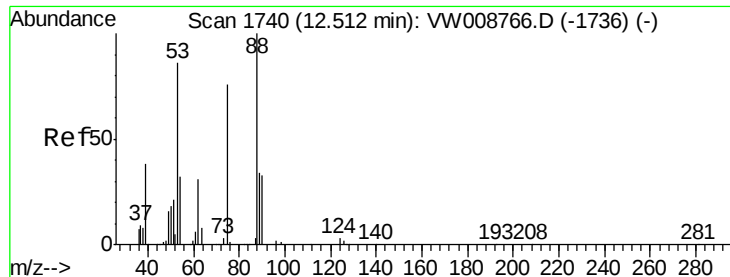
1,2,3-Trichloropropane
Concen: 67.333 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.15 min
Lab File: VW008783.D
Acq: 21 Feb 2019 21:17

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	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: 163.691 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008783.D

Acq: 21 Feb 2019 21:17

Instrument :

MSVOA_W

ClientSampleId :

TP-1-S2

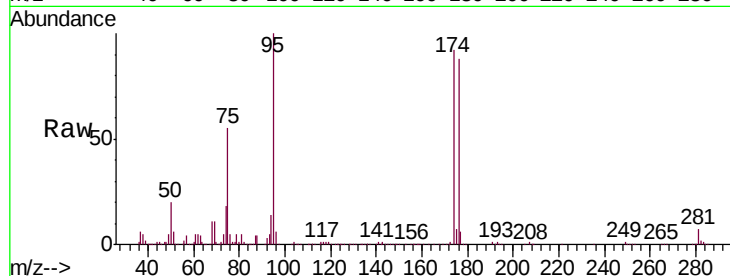
Tgt Ion: 75 Resp: 100375

Ion Ratio Lower Upper

75 100

53 0.5 88.2 132.2#

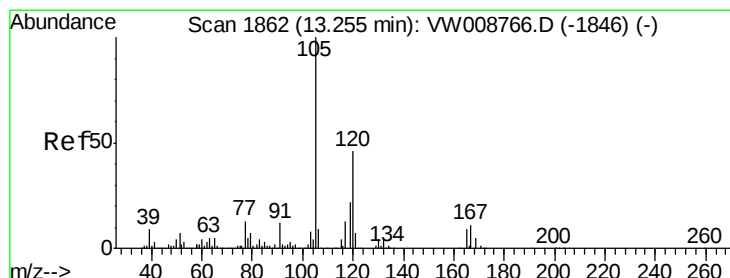
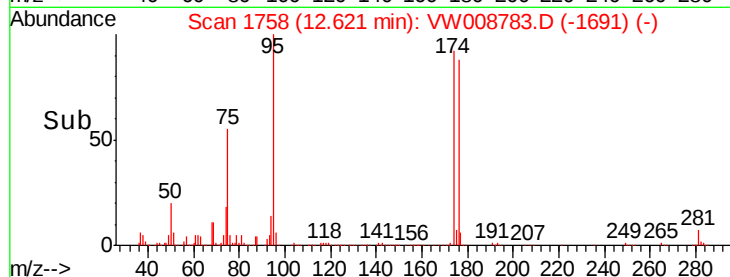
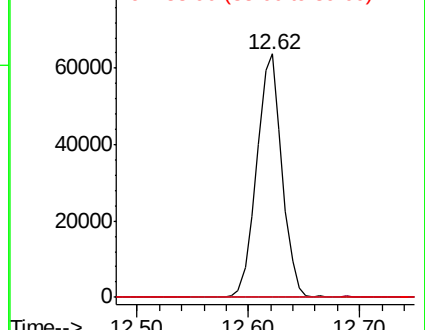
89 0.0 39.5 59.3#



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: 2.115 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.01 min

Lab File: VW008783.D

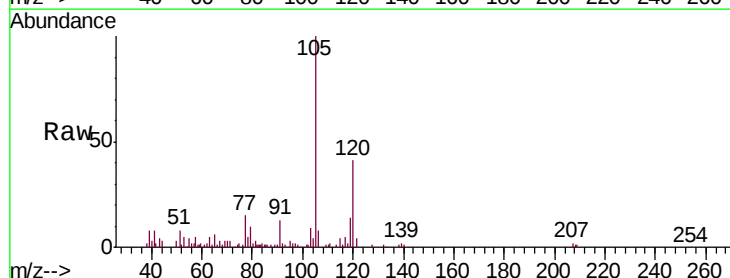
Acq: 21 Feb 2019 21:17

Tgt Ion: 105 Resp: 23549

Ion Ratio Lower Upper

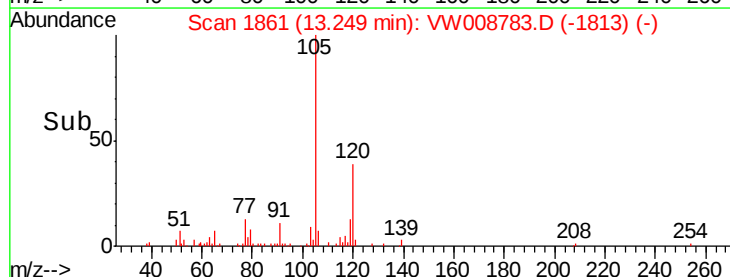
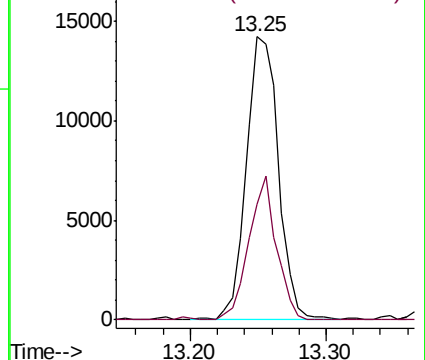
105 100

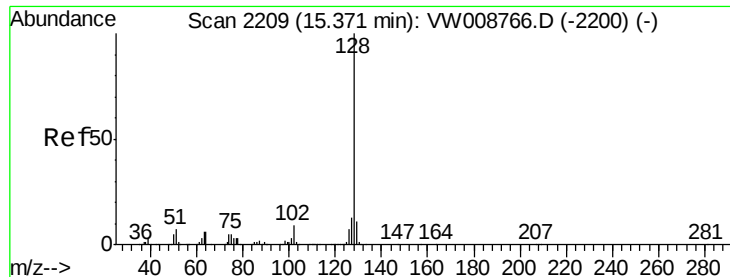
120 43.6 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 1.262 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008783.D

Acq: 21 Feb 2019 21:17

Instrument :

MSVOA_W

ClientSampleId :

TP-1-S2

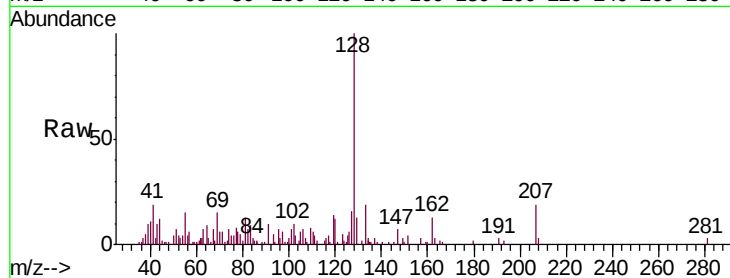
Tgt Ion:128 Resp: 8373

Ion Ratio Lower Upper

128 100

127 26.4 10.8 16.2#

129 22.2 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

