

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091818\
 Data File : VW005492.D
 Acq On : 18 Sep 2018 20:54
 Operator : SY/AP
 Sample : J4936-27RE
 Misc : 5.36G/5ML/MSVOA_W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 PHASE-2RE

Quant Time: Sep 19 06:01:17 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	56683	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	86026	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	55877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	13301	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	29812	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
35) Dibromofluoromethane	7.89	113	23470	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
50) Toluene-d8	10.33	98	73298	33.18	ug/l	0.00
Spiked Amount			Recovery	=	66.36%	
62) 4-Bromofluorobenzene	12.63	95	16479	20.35	ug/l	0.00
Spiked Amount			Recovery	=	40.70%	

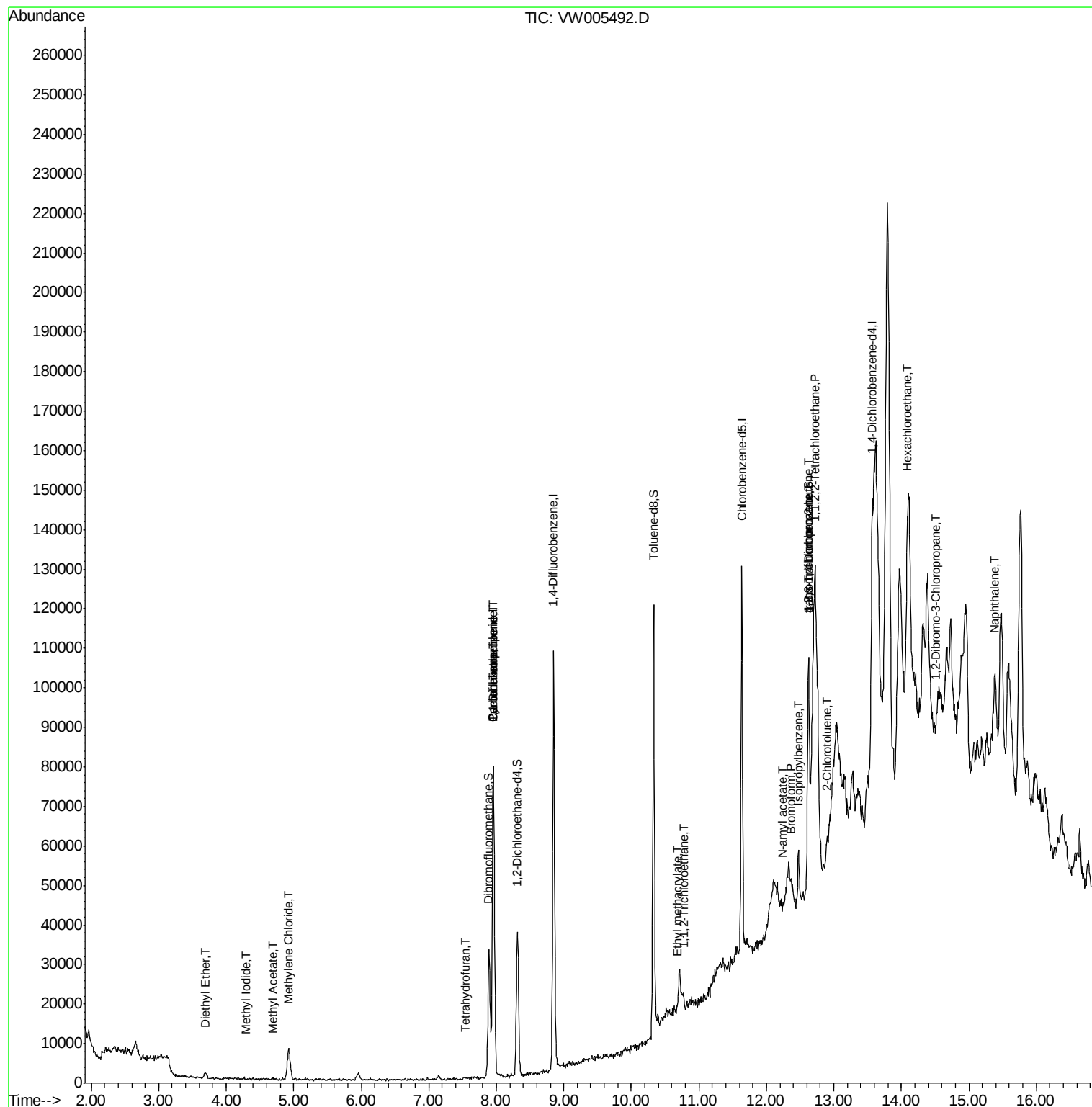
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	94	Below Cal	#	42
5) Bromomethane	2.77	94	334	Below Cal	#	35
8) Diethyl Ether	3.69	74	621	2.516	ug/l	76
10) Methyl Iodide	4.29	142	23	4.086	ug/l #	38
11) Tert butyl alcohol	5.17	59	19	Below Cal	#	71
13) Acrolein	3.67	56	45	Below Cal	#	12
16) Acetone	4.15	43	665	Below Cal	#	58
18) Methyl Acetate	4.70	43	530	1.875	ug/l #	54
20) Methylene Chloride	4.92	84	5529	4.216	ug/l #	80
29) Tetrahydrofuran	7.54	42	146	1.619	ug/l #	47
31) Cyclohexane	7.95	56	1596	1.700	ug/l #	49
36) 1,1-Dichloropropene	7.96	75	4723	5.801	ug/l #	54
38) Carbon Tetrachloride	7.96	117	5911	6.968	ug/l #	16
55) 1,1,2-Trichloroethane	10.77	97	417	1.012	ug/l #	61
56) Ethyl methacrylate	10.68	69	525	1.007	ug/l #	62
71) Bromoform	12.37	173	240	1.197	ug/l #	84
73) Isopropylbenzene	12.47	105	1537	1.647	ug/l	91
74) N-amyl acetate	12.25	43	391	1.988	ug/l #	71
75) 1,1,2,2-Tetrachloroethane	12.71	83	26846	197.207	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	7628	69.727	ug/l #	100
79) 2-Chlorotoluene	12.91	91	1013	1.525	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	7628	180.877	ug/l #	13
90) Hexachloroethane	14.08	117	175	1.169	ug/l	81
92) 1,2-Dibromo-3-Chloropropan	14.51	75	45	1.721	ug/l #	34
95) Naphthalene	15.37	128	794	1.826	ug/l #	27

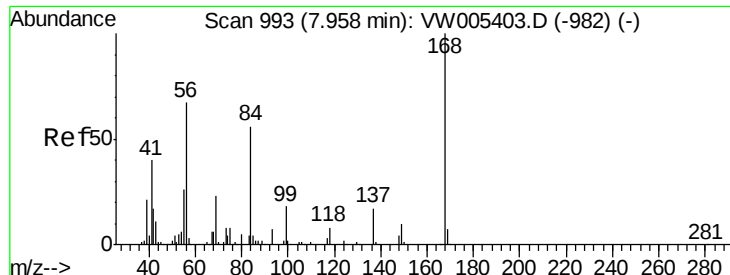
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

Instrument :

MSVOA_W

ClientSampleId :

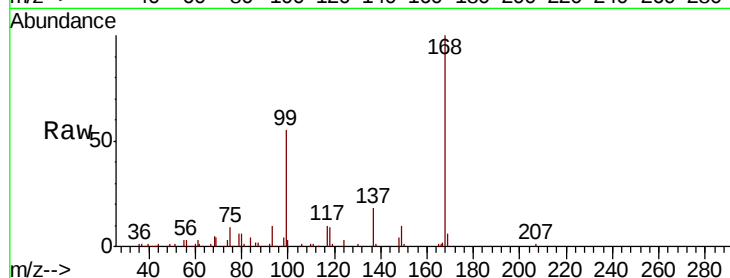
PHASE-2RE

Tgt Ion:168 Resp: 56683

Ion Ratio Lower Upper

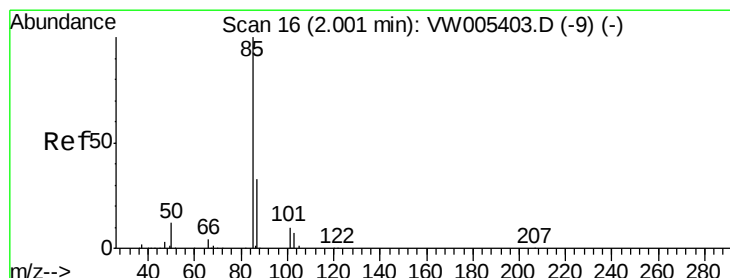
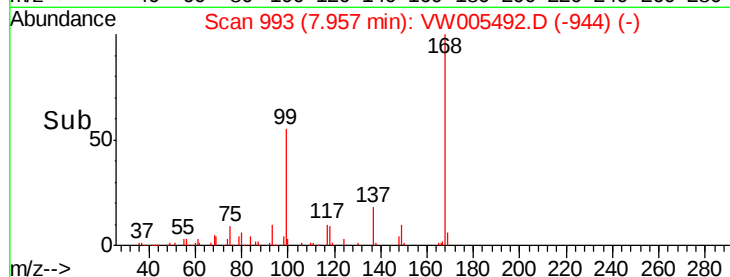
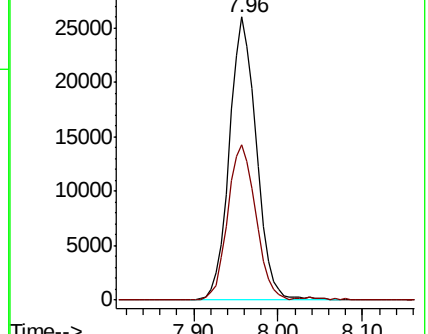
168 100

99 55.1 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW005492.D

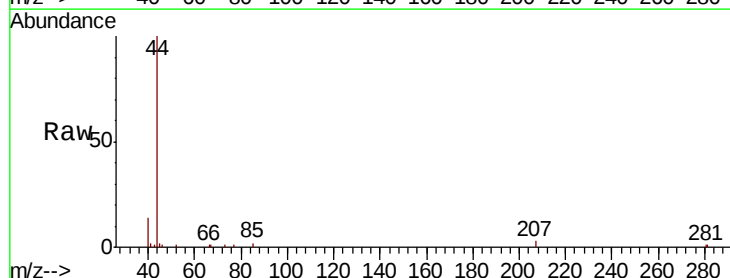
Acq: 18 Sep 2018 20:54

Tgt Ion: 85 Resp: 94

Ion Ratio Lower Upper

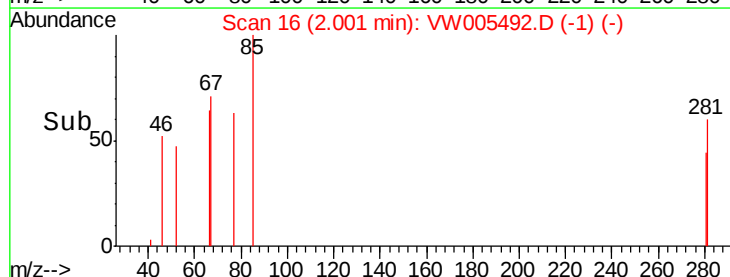
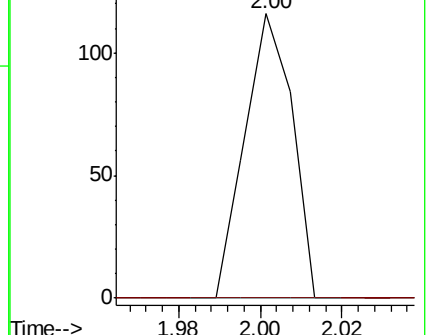
85 100

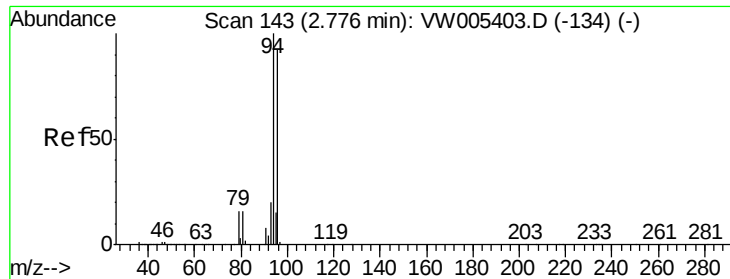
87 0.0 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

Instrument :

MSVOA_W

ClientSampleId :

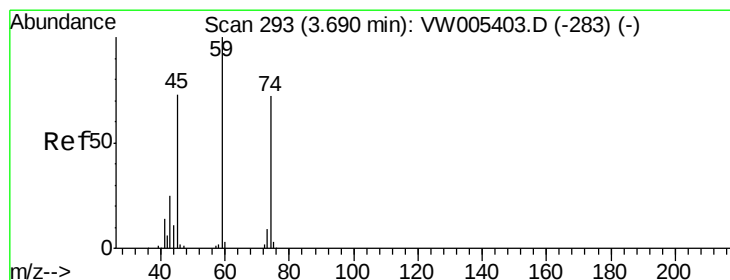
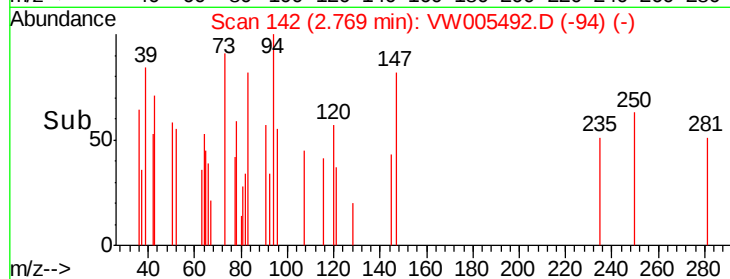
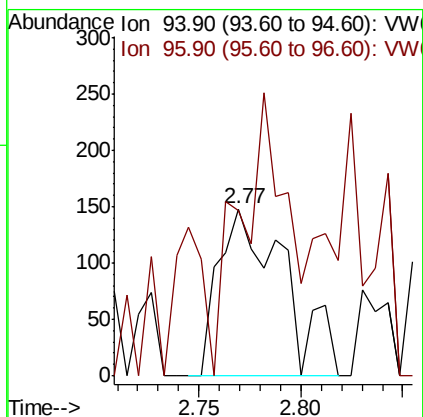
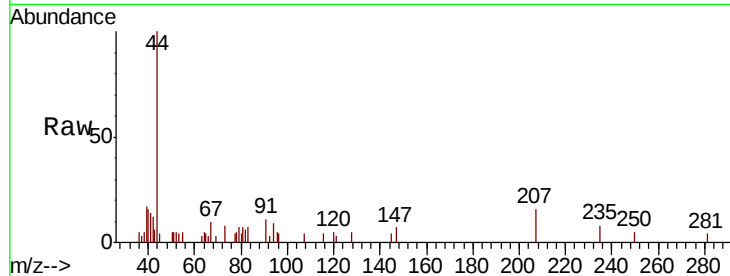
PHASE-2RE

Tgt Ion: 94 Resp: 334

Ion Ratio Lower Upper

94 100

96 30.4 73.7 110.5#



#8

Diethyl Ether

Concen: 2.516 ug/l

RT: 3.69 min Scan# 293

Delta R.T. -0.00 min

Lab File: VW005492.D

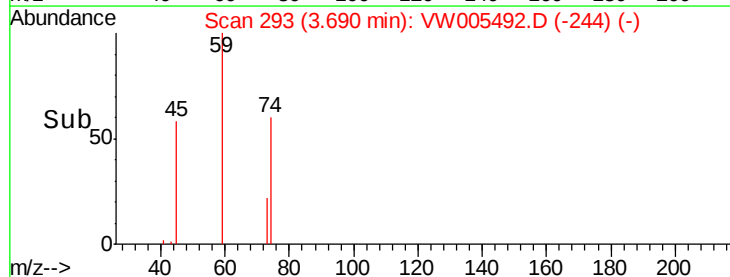
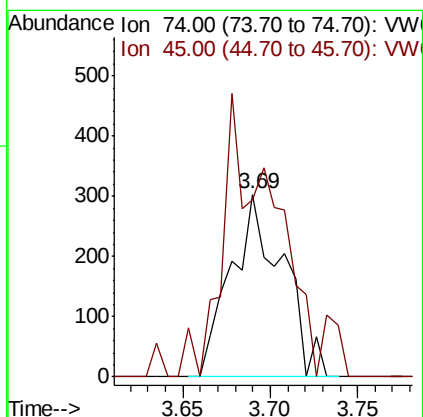
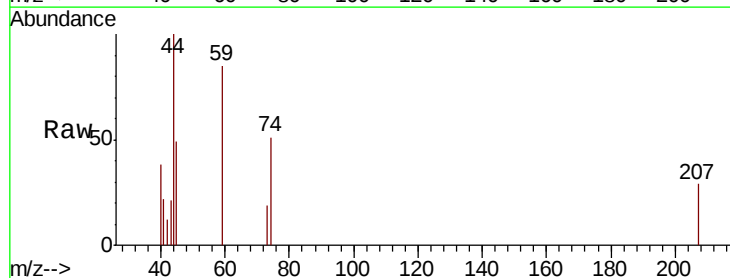
Acq: 18 Sep 2018 20:54

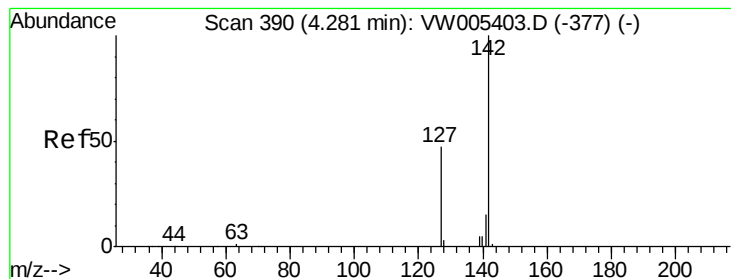
Tgt Ion: 74 Resp: 621

Ion Ratio Lower Upper

74 100

45 81.6 53.1 159.3





#10

Methyl Iodide

Concen: 4.086 ug/l

RT: 4.29 min Scan# 391

Delta R.T. 0.01 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

Instrument :

MSVOA_W

ClientSampleId :

PHASE-2RE

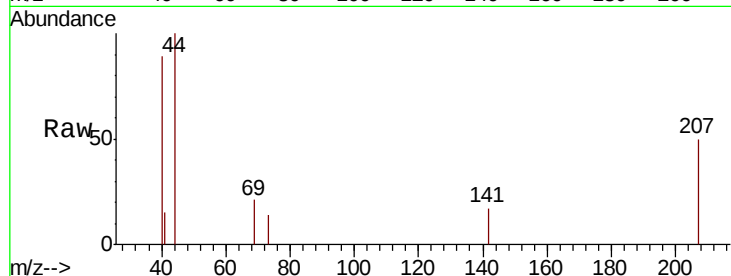
Tgt Ion: 142 Resp: 23

Ion Ratio Lower Upper

142 100

127 0.0 37.5 56.3#

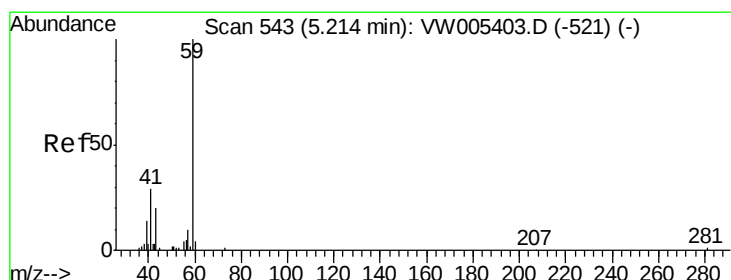
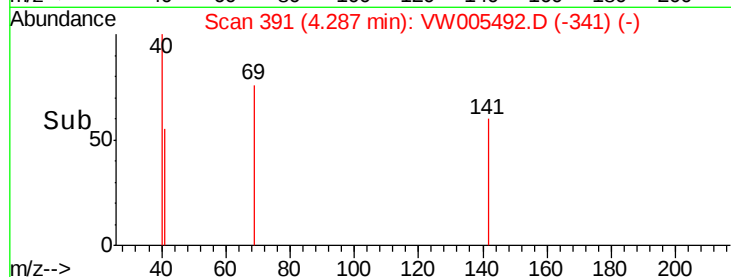
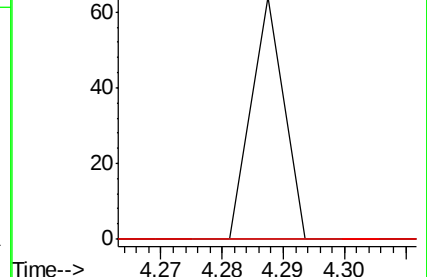
141 0.0 12.4 18.6#



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: Below Cal

RT: 5.17 min Scan# 535

Delta R.T. -0.05 min

Lab File: VW005492.D

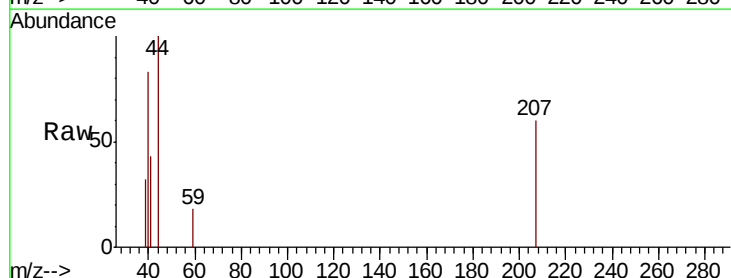
Acq: 18 Sep 2018 20:54

Tgt Ion: 59 Resp: 19

Ion Ratio Lower Upper

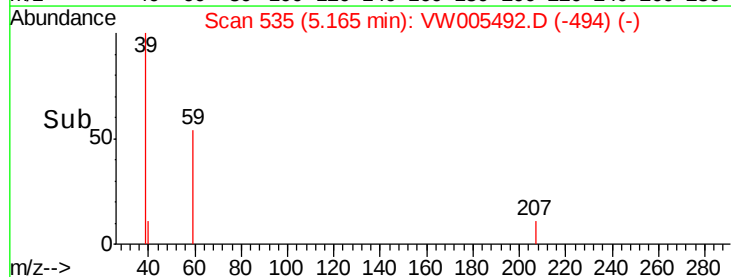
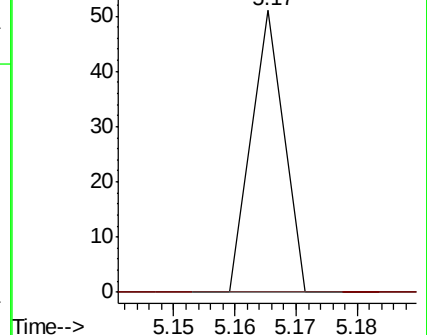
59 100

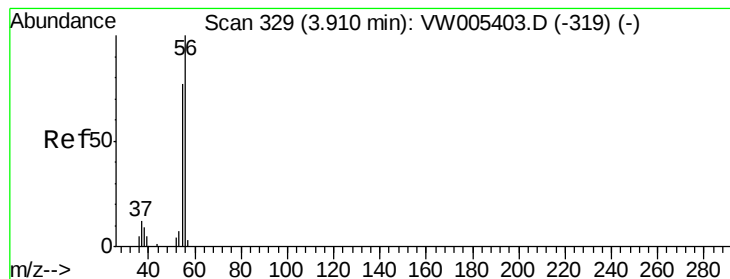
57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.67 min Scan# 290

Delta R.T. -0.24 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

Instrument :

MSVOA_W

ClientSampled :

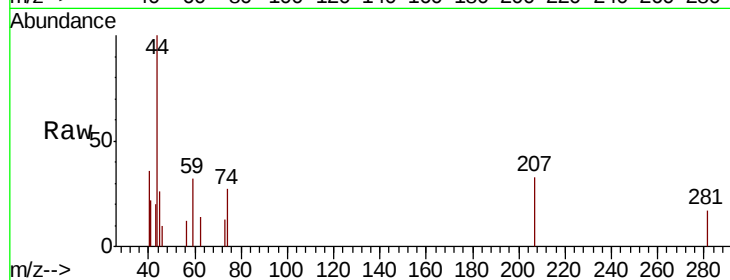
PHASE-2RE

Tgt Ion: 56 Resp: 45

Ion Ratio Lower Upper

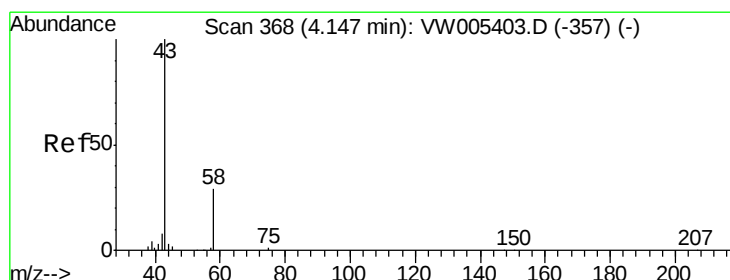
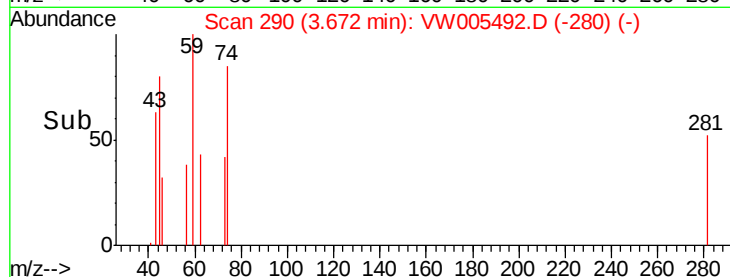
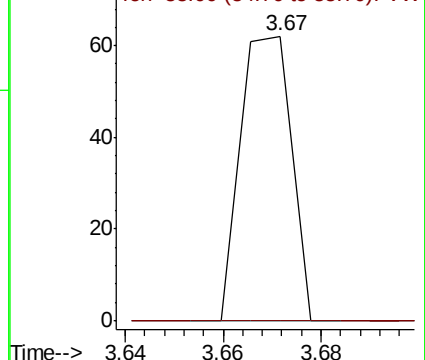
56 100

55 0.0 59.8 89.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 368

Delta R.T. 0.00 min

Lab File: VW005492.D

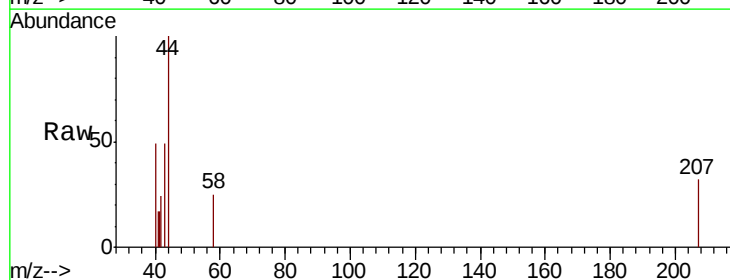
Acq: 18 Sep 2018 20:54

Tgt Ion: 43 Resp: 665

Ion Ratio Lower Upper

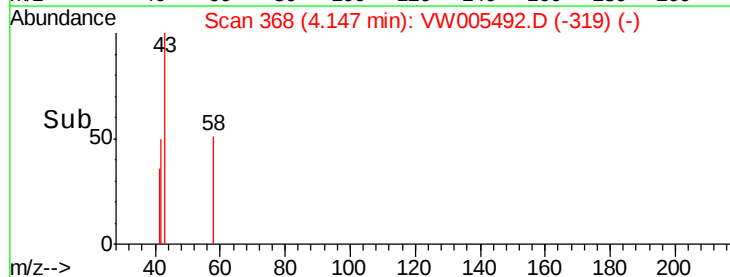
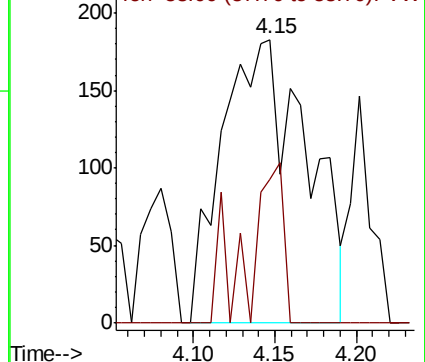
43 100

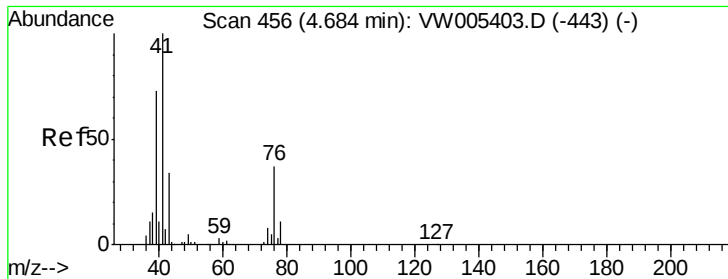
58 50.8 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

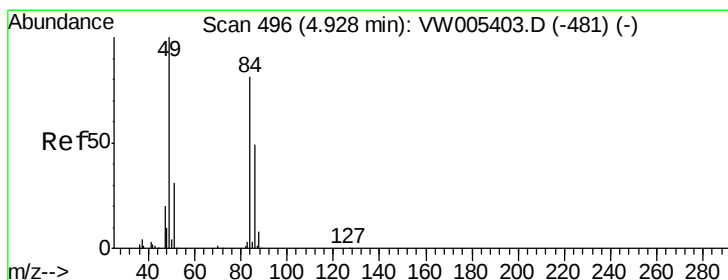
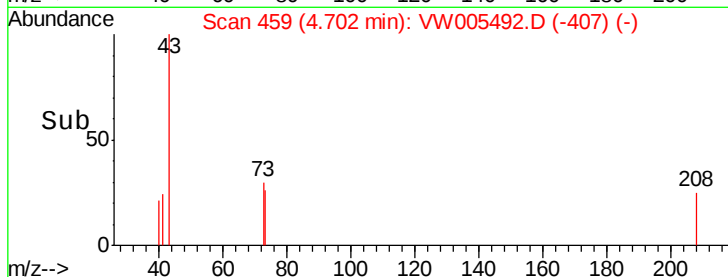
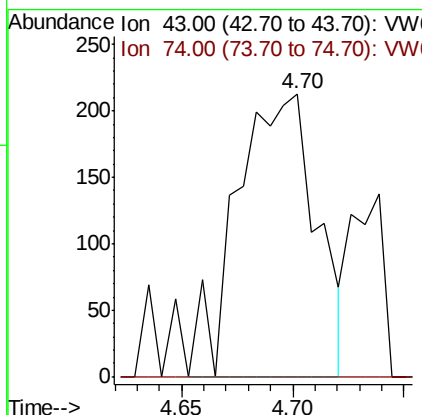
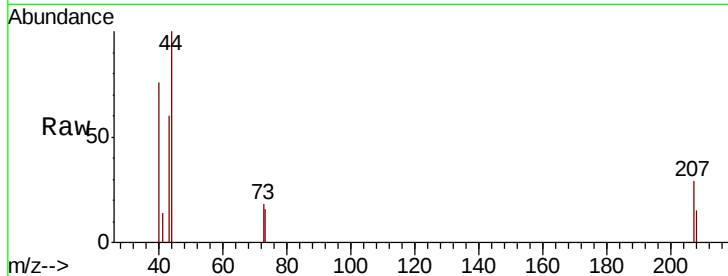




#18
Methyl Acetate
Concen: 1.875 ug/l
RT: 4.70 min Scan# 459
Delta R.T. 0.02 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

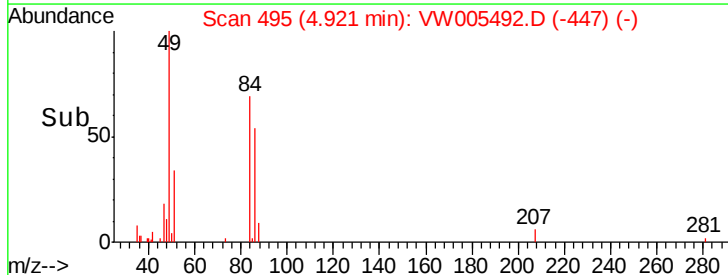
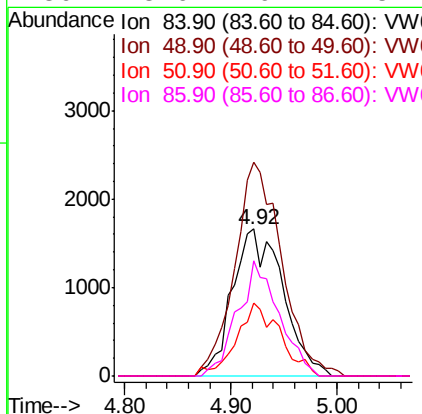
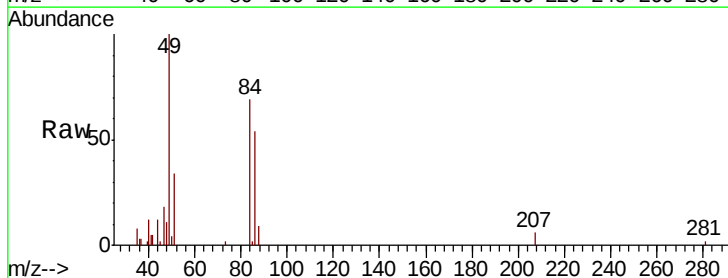
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PHASE-2RE

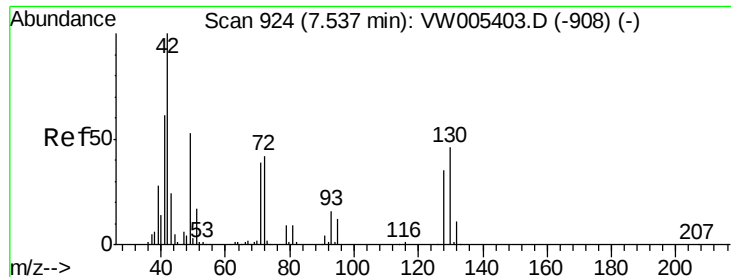
Tgt Ion: 43 Resp: 530
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: 4.216 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.01 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

Tgt Ion: 84 Resp: 5529
Ion Ratio Lower Upper
84 100
49 145.4 99.3 148.9
51 50.0 31.1 46.7#
86 78.6 49.1 73.7#

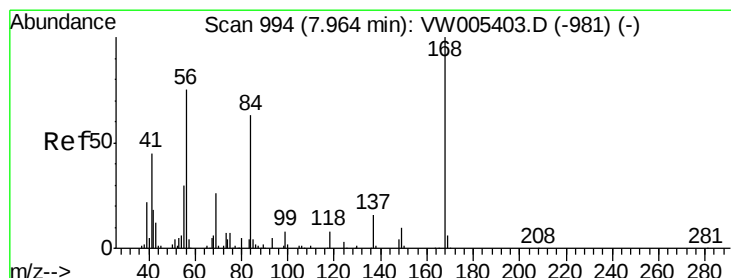
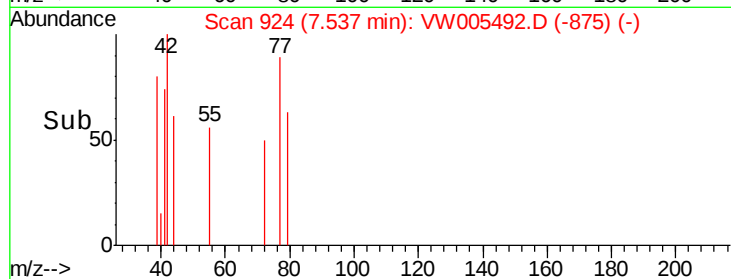
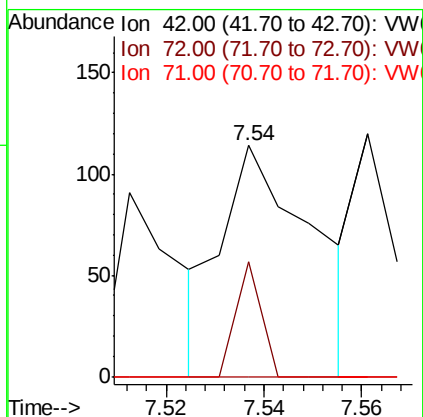
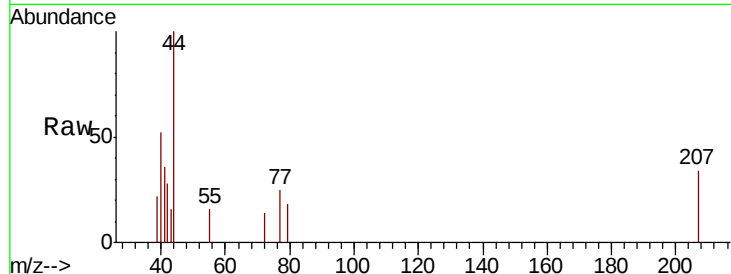




#29
Tetrahydrofuran
Concen: 1.619 ug/l
RT: 7.54 min Scan# 924
Delta R.T. -0.00 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

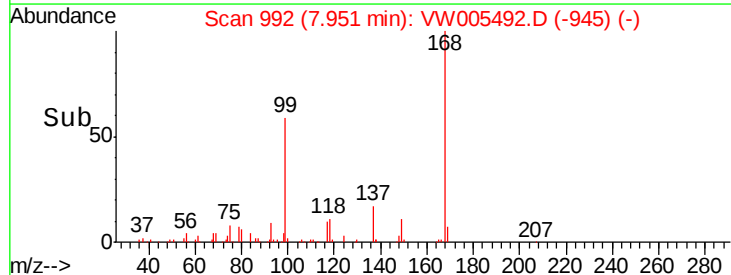
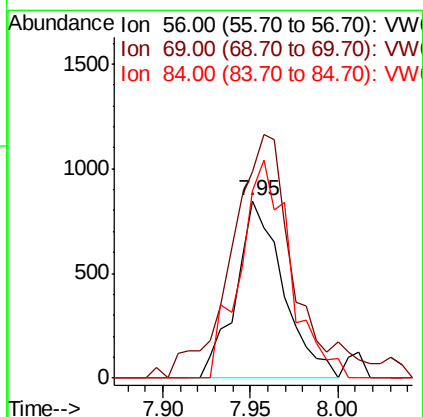
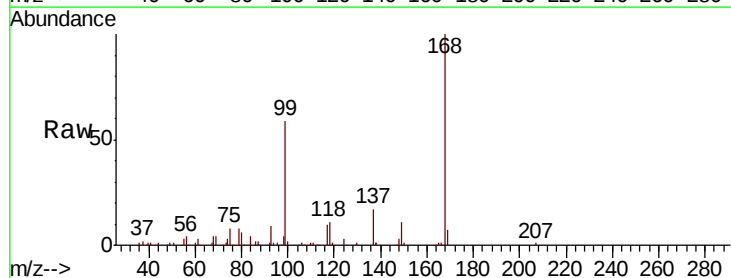
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MSVOA_W
ClientSampleId :
PHASE-2RE

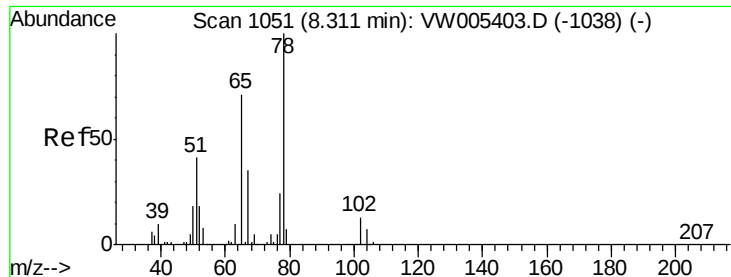
Tgt Ion: 42 Resp: 146
Ion Ratio Lower Upper
42 100
72 14.4 33.2 49.8#
71 0.0 31.0 46.6#



#31
Cyclohexane
Concen: 1.700 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

Tgt Ion: 56 Resp: 1596
Ion Ratio Lower Upper
56 100
69 100.9 27.2 40.8#
84 105.8 66.7 100.1#





#33

1,2-Dichloroethane-d4

Concen: 50.669 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. -0.00 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

Instrument :

MSVOA_W

ClientSampleId :

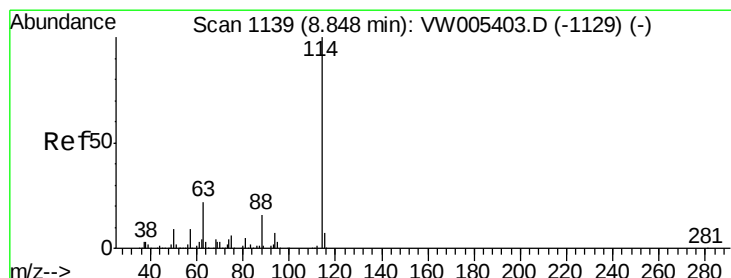
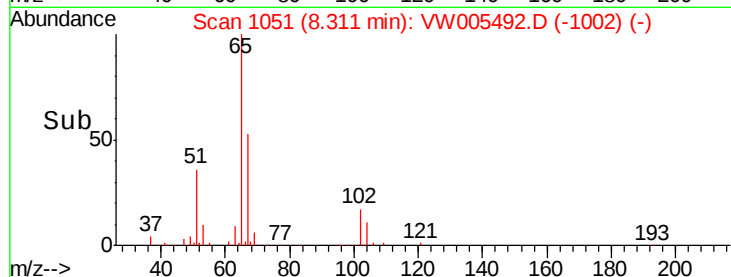
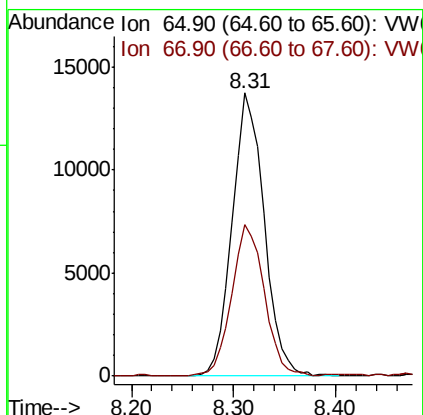
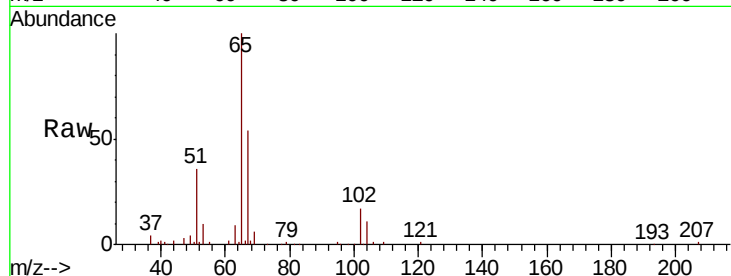
PHASE-2RE

Tgt Ion: 65 Resp: 29812

Ion Ratio Lower Upper

65 100

67 54.7 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: VW005492.D

Acq: 18 Sep 2018 20:54

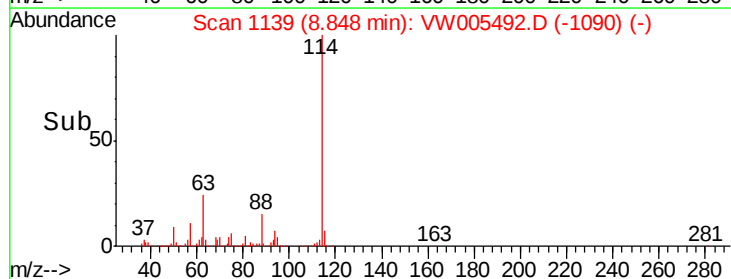
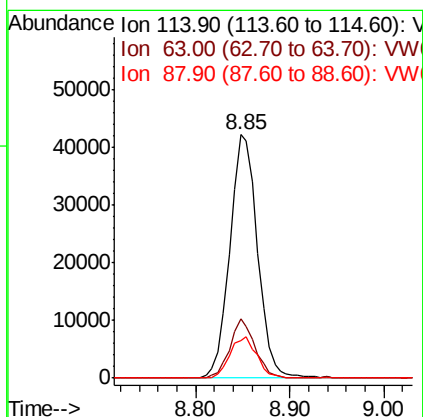
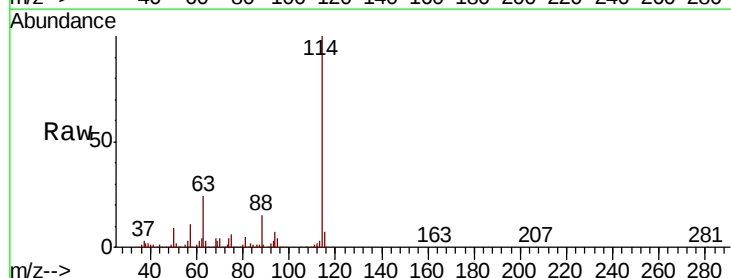
Tgt Ion: 114 Resp: 86026

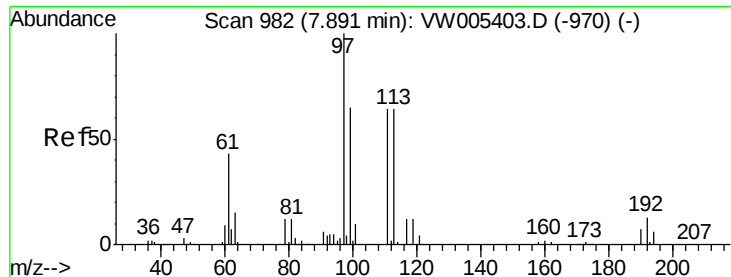
Ion Ratio Lower Upper

114 100

63 24.1 0.0 43.4

88 15.4 0.0 31.8

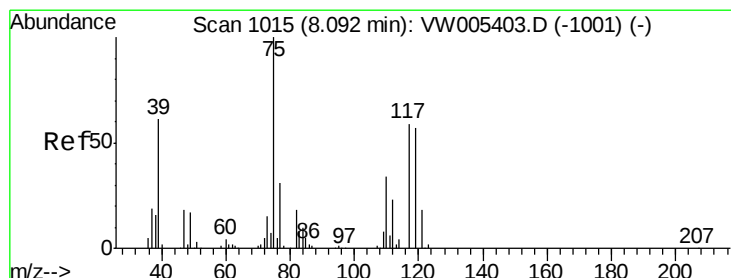
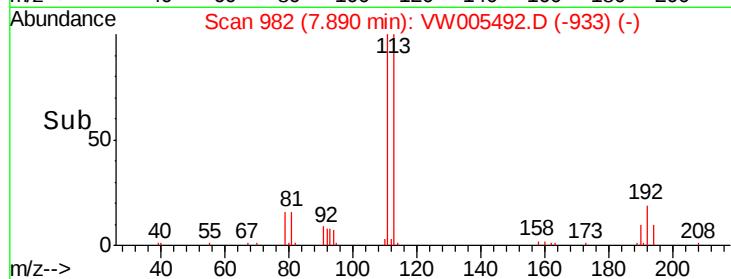
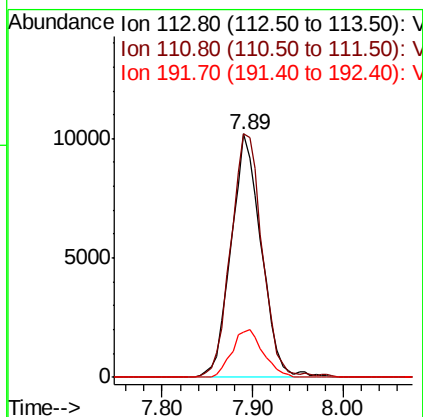
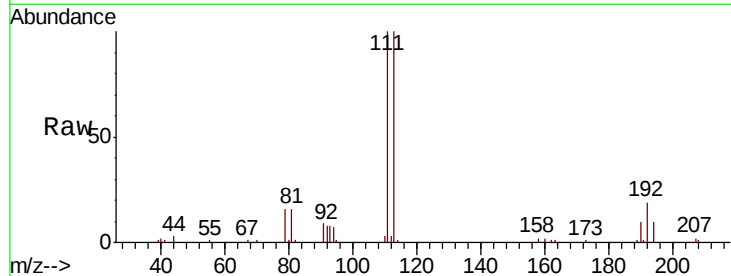




#35
 Dibromofluoromethane
 Concen: 48.659 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW005492.D
 Acq: 18 Sep 2018 20:54

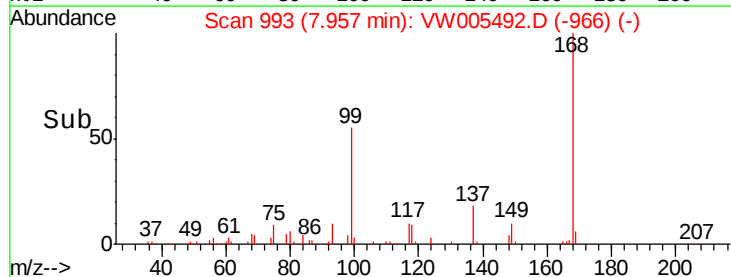
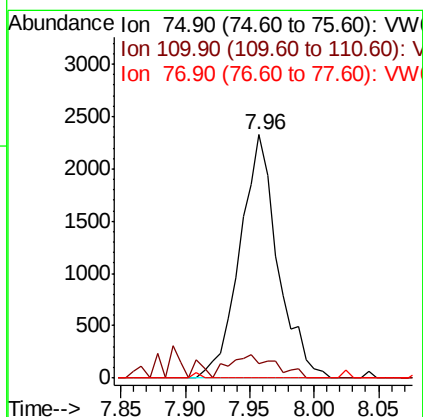
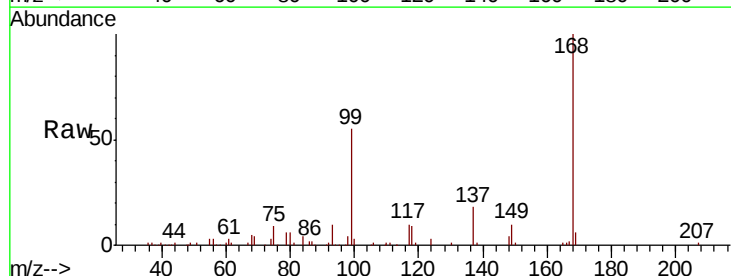
Instrument :
 MSVOA_W
 ClientSampled :
 PHASE-2RE

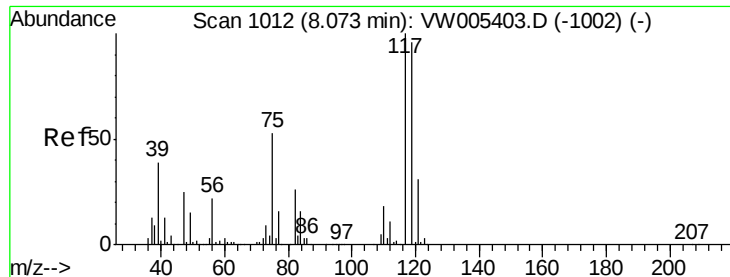
Tgt Ion:113 Resp: 23470
 Ion Ratio Lower Upper
 113 100
 111 104.4 82.3 123.5
 192 20.2 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 5.801 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005492.D
 Acq: 18 Sep 2018 20:54

Tgt Ion: 75 Resp: 4723
 Ion Ratio Lower Upper
 75 100
 110 11.9 16.8 50.4#
 77 0.0 24.2 36.4#

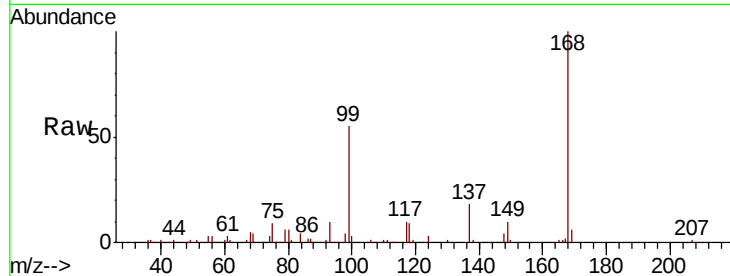




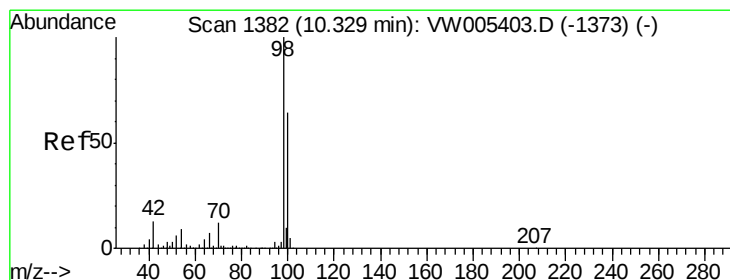
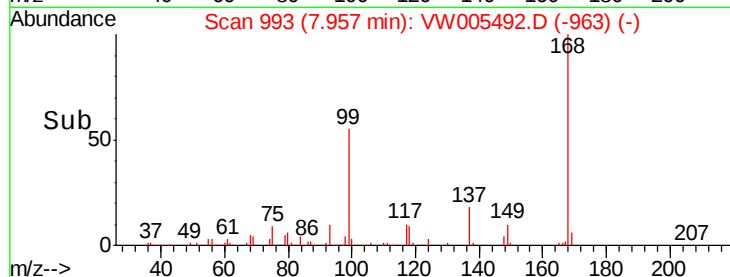
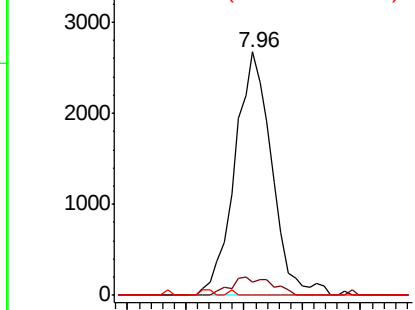
#38
Carbon Tetrachloride
Concen: 6.968 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.12 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

Instrument :
MSVOA_W
ClientSampleId :
PHASE-2RE

Tgt Ion:117 Resp: 5911
Ion Ratio Lower Upper
117 100
119 5.4 76.8 115.2#
121 0.0 24.7 37.1#

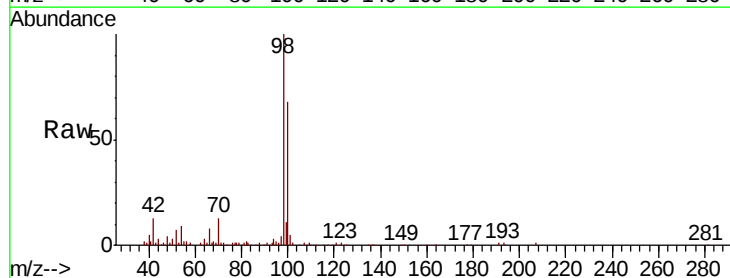


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

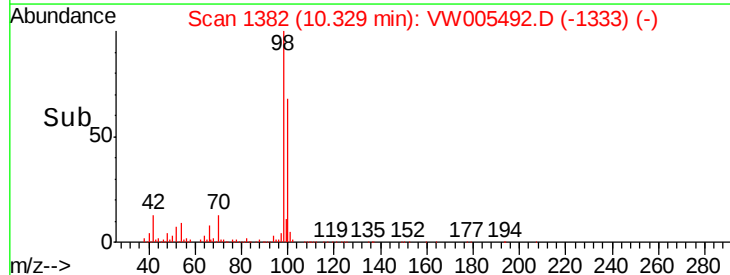
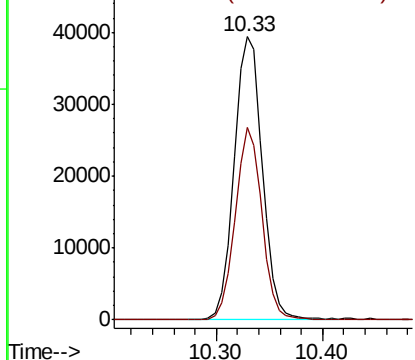


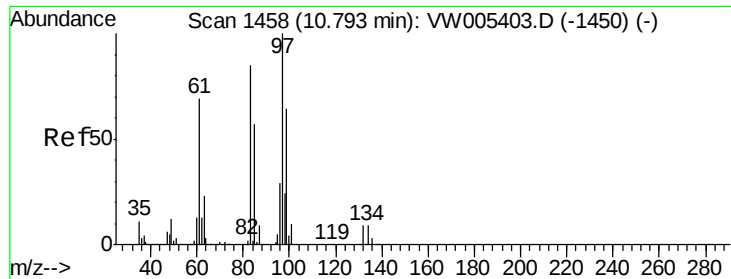
#50
Toluene-d8
Concen: 33.183 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

Tgt Ion: 98 Resp: 73298
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V

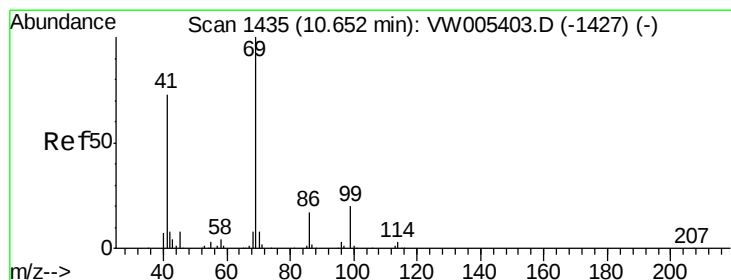
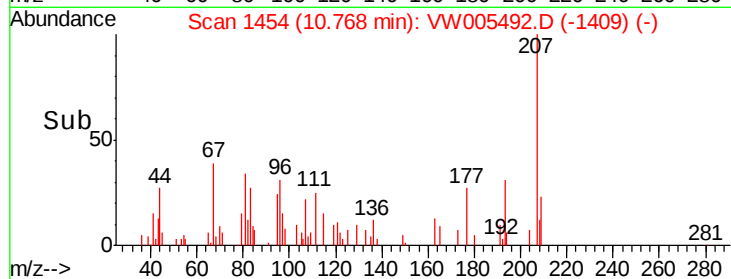
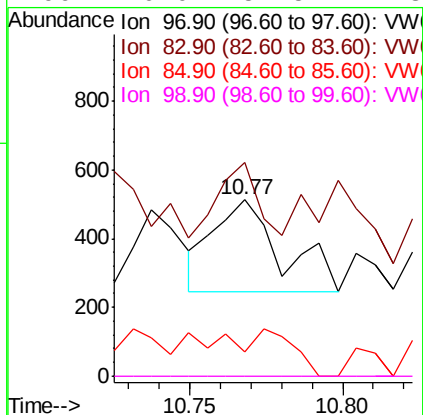
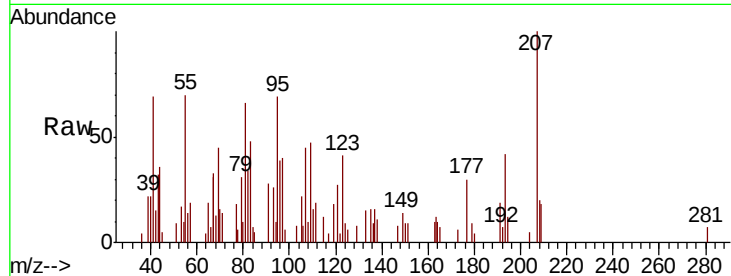




#55
 1,1,2-Trichloroethane
 Concen: 1.012 ug/l
 RT: 10.77 min Scan# 1454
 Delta R.T. -0.02 min
 Lab File: VW005492.D
 Acq: 18 Sep 2018 20:54

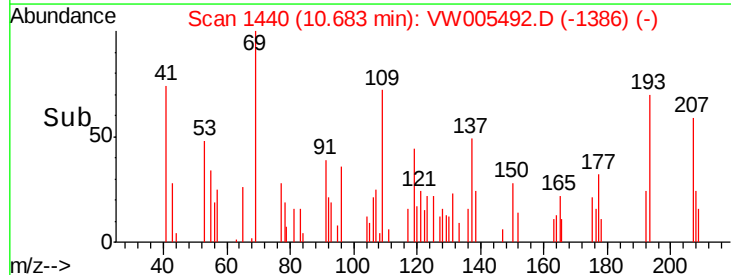
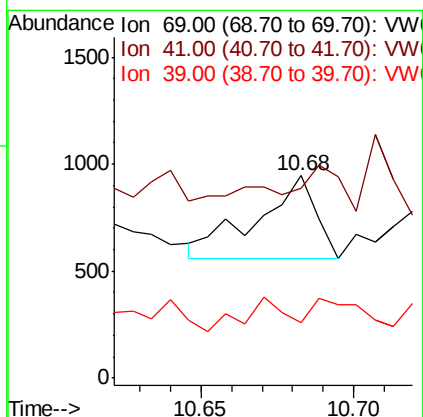
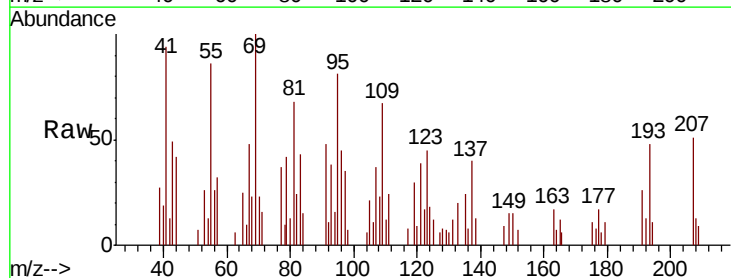
Instrument :
 MSVOA_W
 ClientSampleId :
 PHASE-2RE

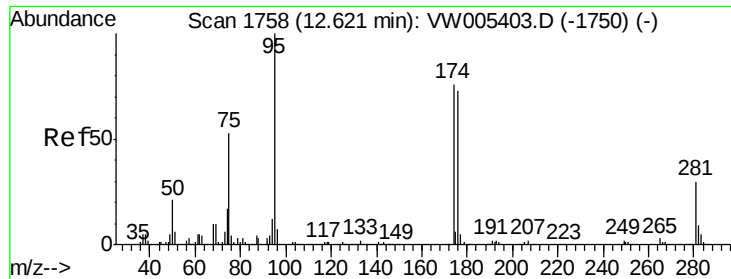
Tgt Ion: 97 Resp: 417
 Ion Ratio Lower Upper
 97 100
 83 81.4 67.8 101.8
 85 26.0 45.4 68.0#
 99 0.0 51.5 77.3#



#56
 Ethyl methacrylate
 Concen: 1.007 ug/l
 RT: 10.68 min Scan# 1440
 Delta R.T. 0.03 min
 Lab File: VW005492.D
 Acq: 18 Sep 2018 20:54

Tgt Ion: 69 Resp: 525
 Ion Ratio Lower Upper
 69 100
 41 33.9 59.3 88.9#
 39 25.5 30.2 45.4#

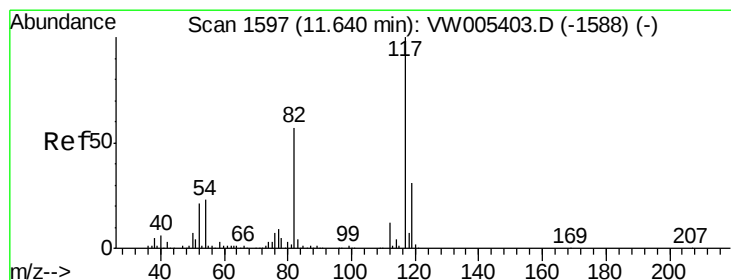
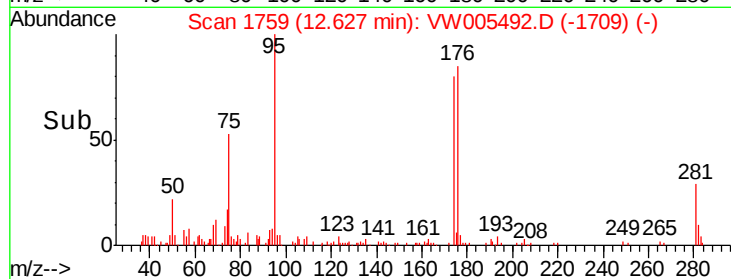
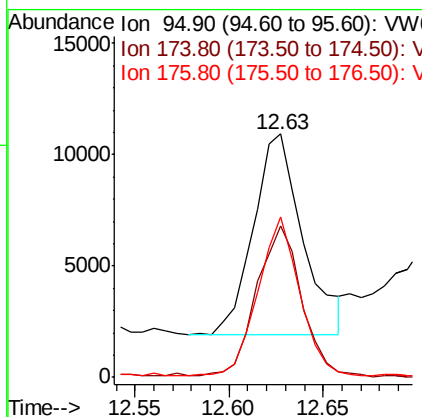
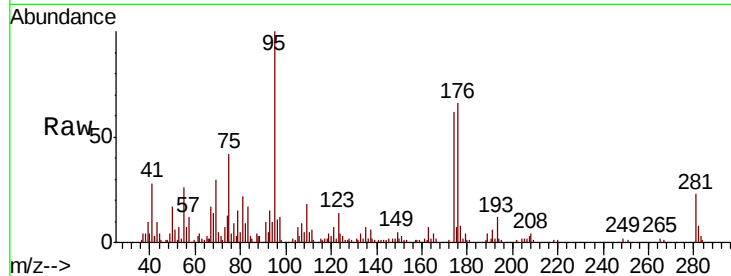




#62
4-Bromofluorobenzene
Concen: 20.346 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. 0.01 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

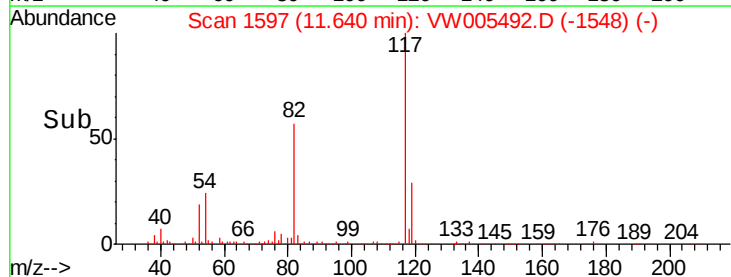
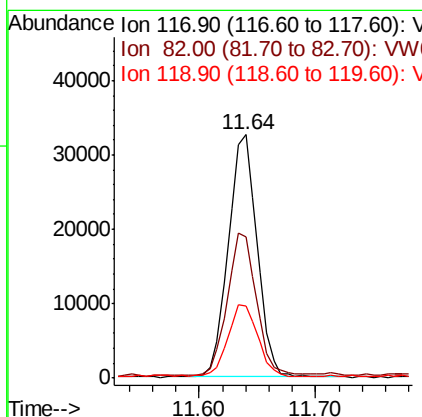
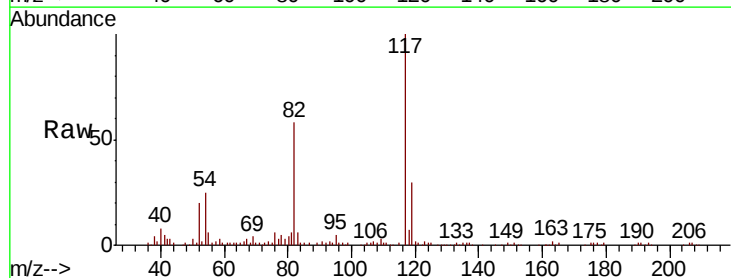
Instrument :
MSVOA_W
ClientSampleId :
PHASE-2RE

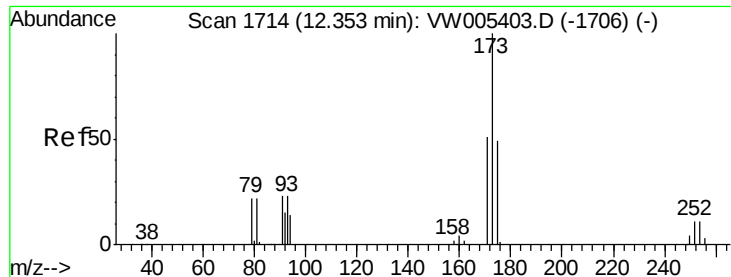
Tgt Ion: 95 Resp: 16479
Ion Ratio Lower Upper
95 100
174 68.9 0.0 161.2
176 66.5 0.0 156.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

Tgt Ion: 117 Resp: 55877
Ion Ratio Lower Upper
117 100
82 57.3 45.9 68.9
119 29.1 24.8 37.2

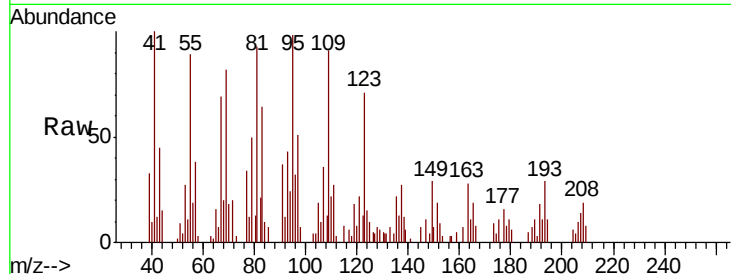




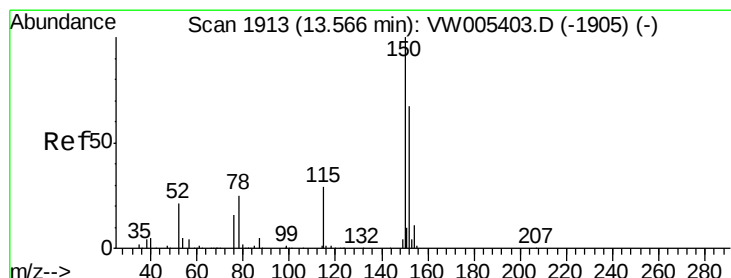
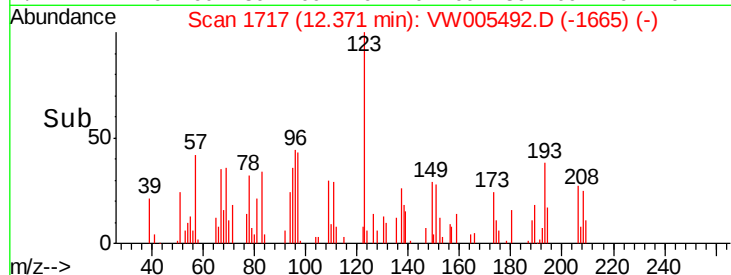
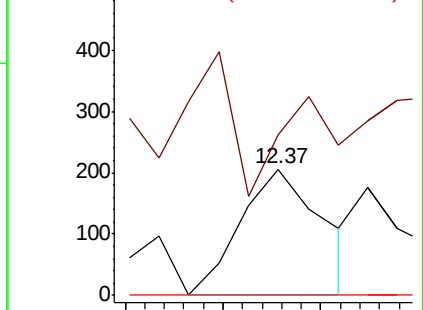
#71
Bromoform
Concen: 1.197 ug/l
RT: 12.37 min Scan# 1717
Delta R.T. 0.02 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

Instrument :
MSVOA_W
ClientSampleId :
PHASE-2RE

Tgt Ion:173 Resp: 240
Ion Ratio Lower Upper
173 100
175 59.6 24.2 72.6
254 0.0 0.0 0.0

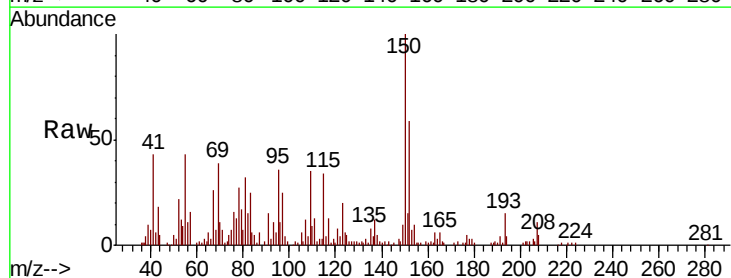


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

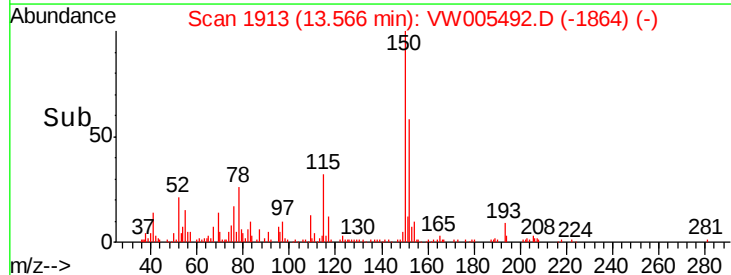
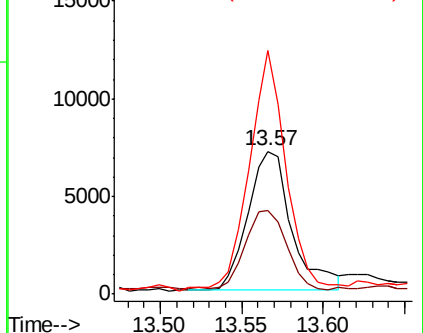


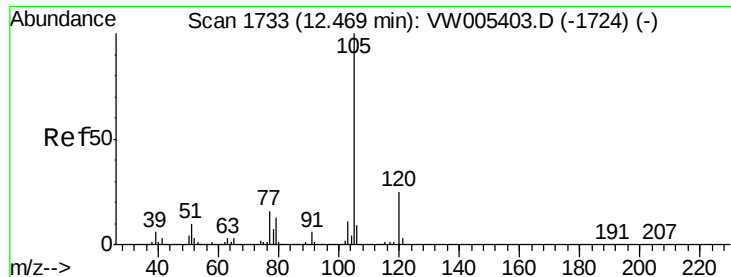
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

Tgt Ion:152 Resp: 13301
Ion Ratio Lower Upper
152 100
115 53.6 29.5 88.5
150 146.7 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





#73

Isopropylbenzene

Concen: 1.647 ug/l

RT: 12.47 min Scan# 1734

Delta R.T. 0.01 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

Instrument :

MSVOA_W

ClientSampled :

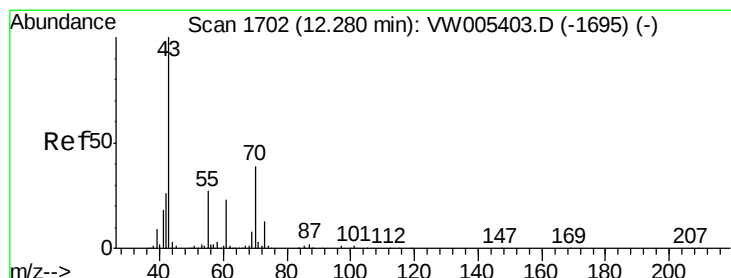
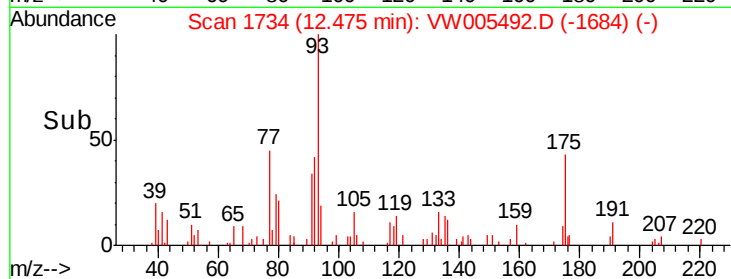
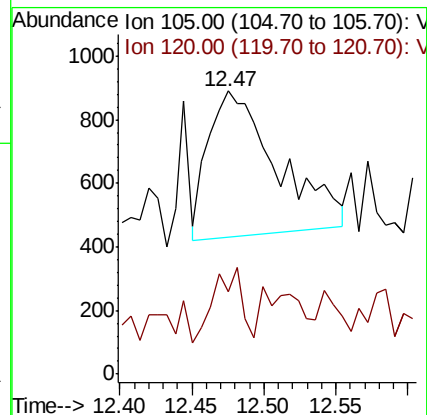
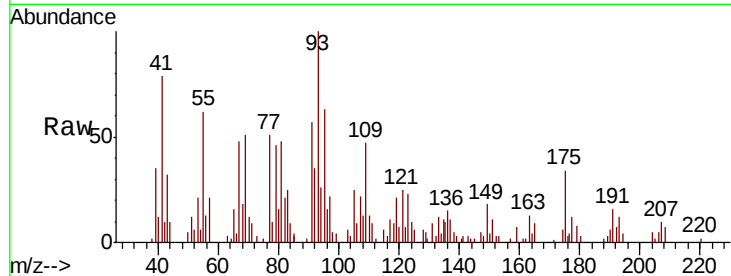
PHASE-2RE

Tgt Ion: 105 Resp: 1537

Ion Ratio Lower Upper

105 100

120 21.0 12.9 38.6



#74

N-ethyl acetate

Concen: 1.988 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.03 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

Tgt Ion: 43 Resp: 391

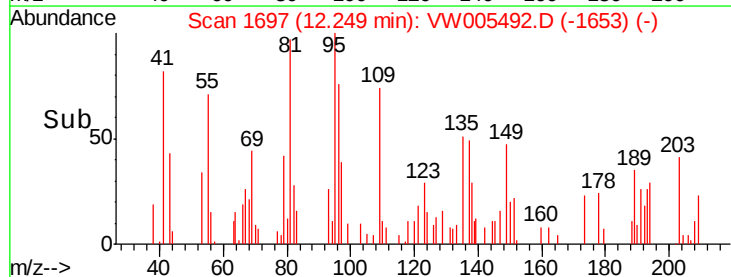
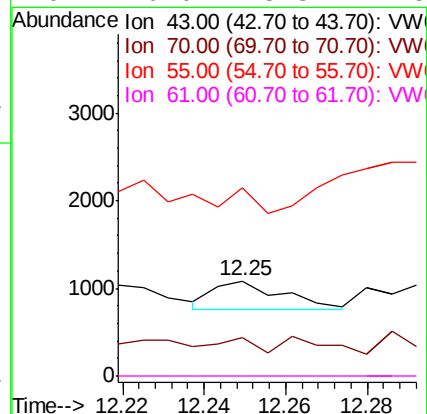
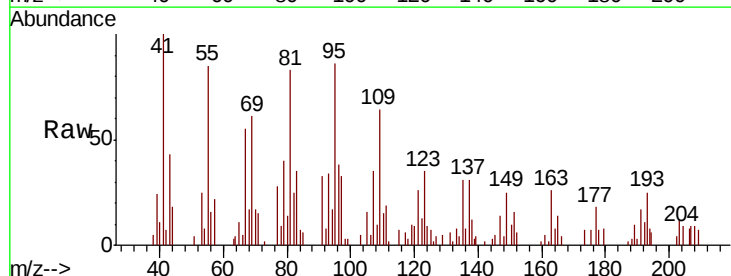
Ion Ratio Lower Upper

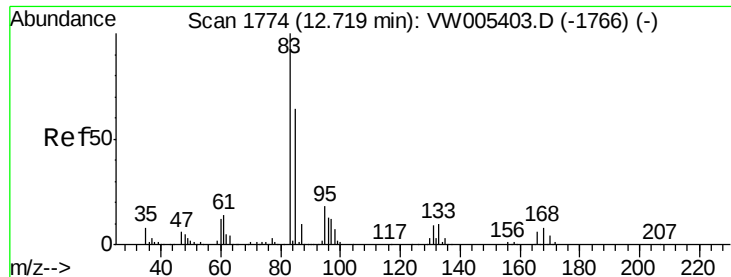
43 100

70 38.4 31.9 47.9

55 0.0 21.4 32.0#

61 0.0 18.3 27.5#





#75

1,1,2,2-Tetrachloroethane

Concen: 197.207 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

Instrument :

MSVOA_W

ClientSampleId :

PHASE-2RE

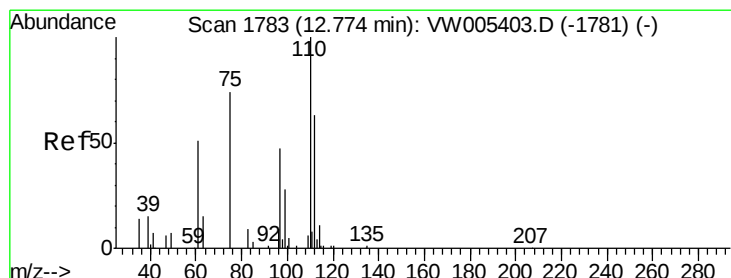
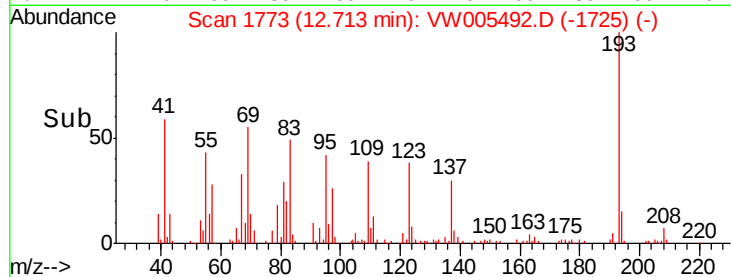
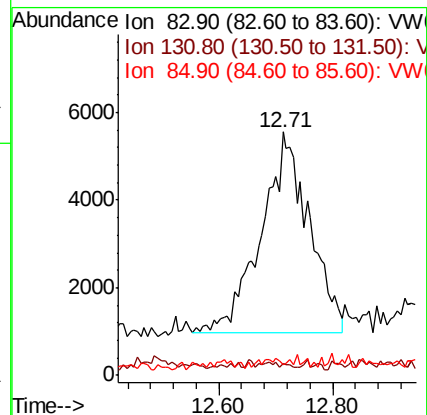
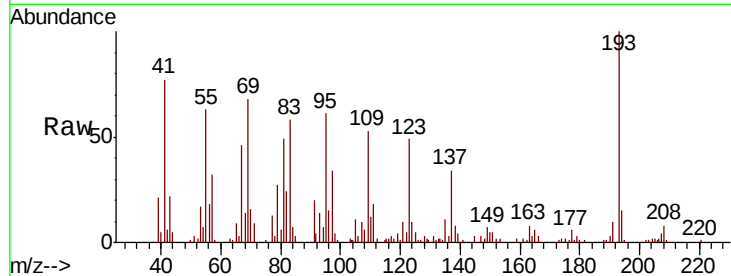
Tgt Ion: 83 Resp: 26846

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

85 0.0 31.6 95.0#



#76

1,2,3-Trichloropropane

Concen: 69.727 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005492.D

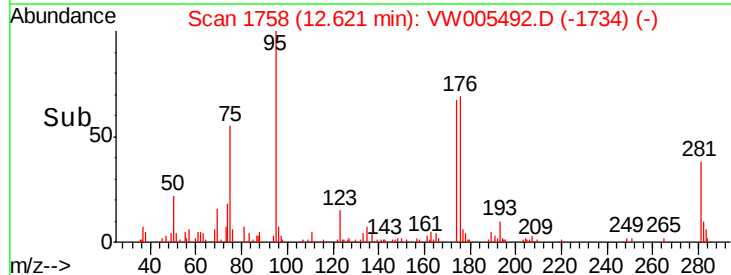
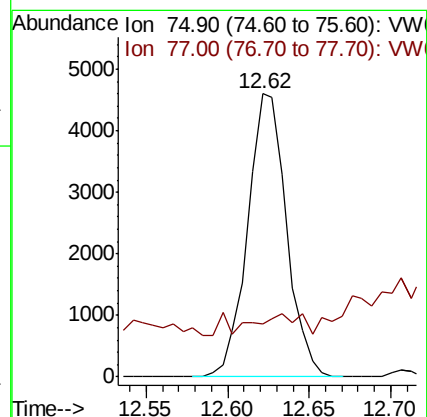
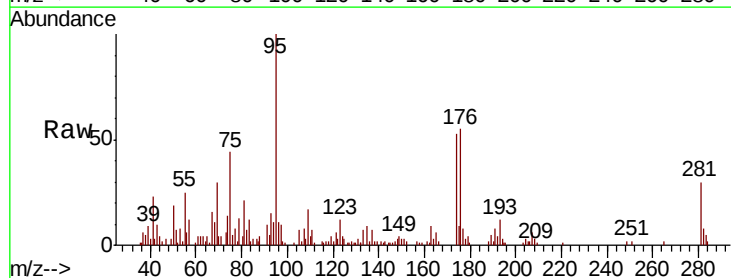
Acq: 18 Sep 2018 20:54

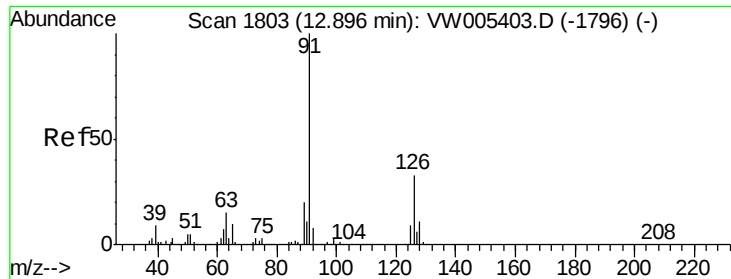
Tgt Ion: 75 Resp: 7628

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

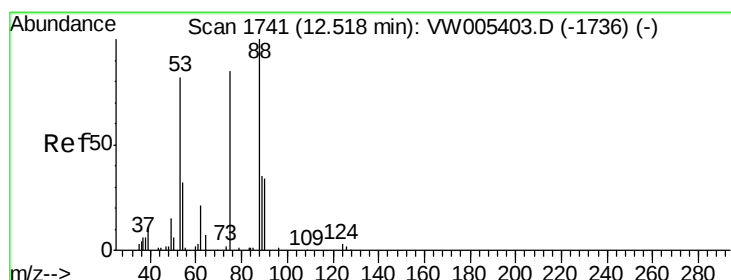
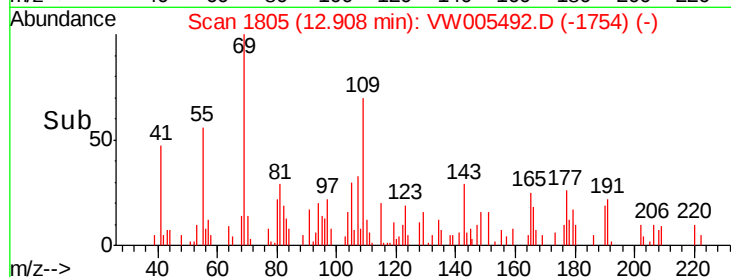
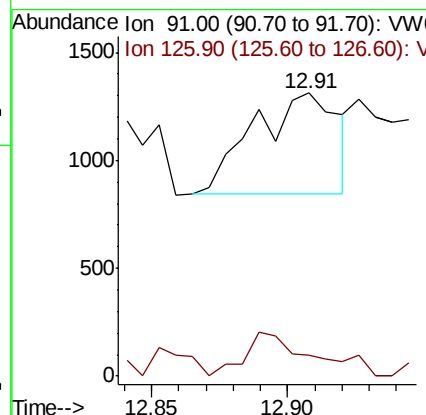
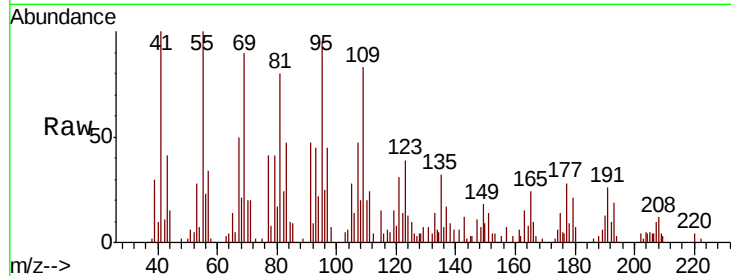




#79
2-Chlorotoluene
Concen: 1.525 ug/l
RT: 12.91 min Scan# 1805
Delta R.T. 0.01 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

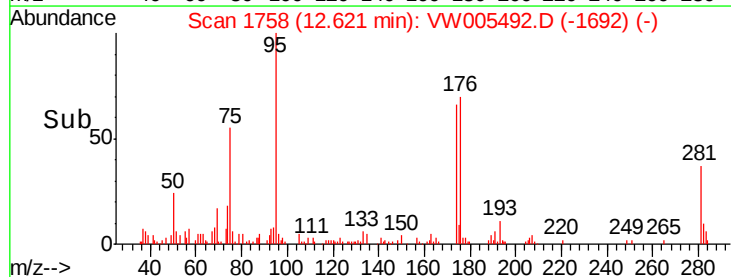
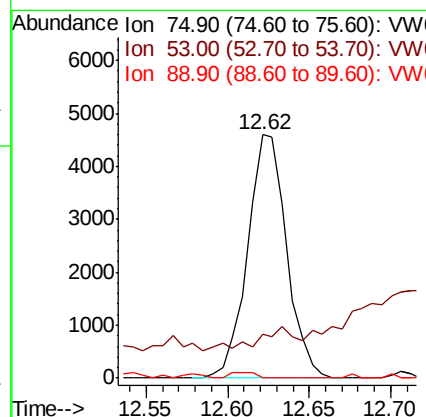
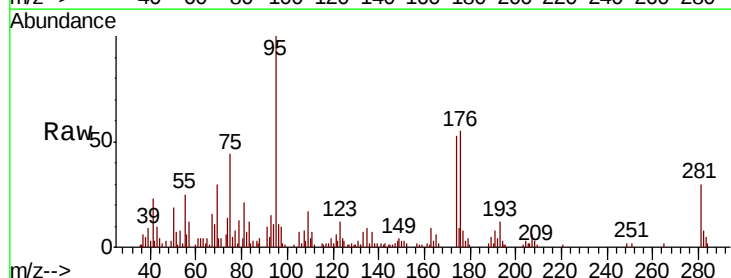
Instrument :
MSVOA_W
ClientSampleId :
PHASE-2RE

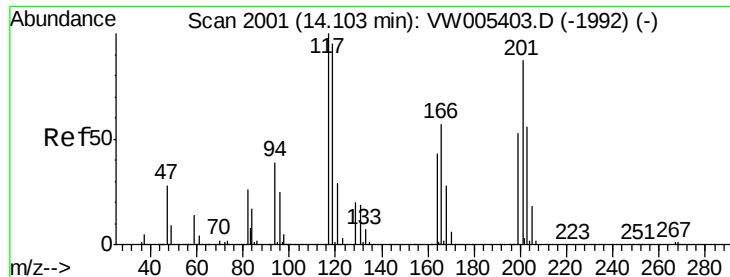
Tgt Ion: 91 Resp: 1013
Ion Ratio Lower Upper
91 100
126 34.6 16.4 49.1



#81
trans-1,4-Dichloro-2-butene
Concen: 180.877 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.10 min
Lab File: VW005492.D
Acq: 18 Sep 2018 20:54

Tgt Ion: 75 Resp: 7628
Ion Ratio Lower Upper
75 100
53 6.7 83.2 124.8#
89 1.5 36.6 54.8#





#90

Hexachloroethane

Concen: 1.169 ug/l

RT: 14.08 min Scan# 1998

Delta R.T. -0.02 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

Instrument :

MSVOA_W

ClientSampled :

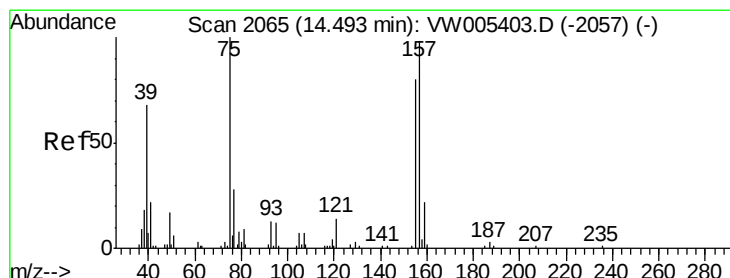
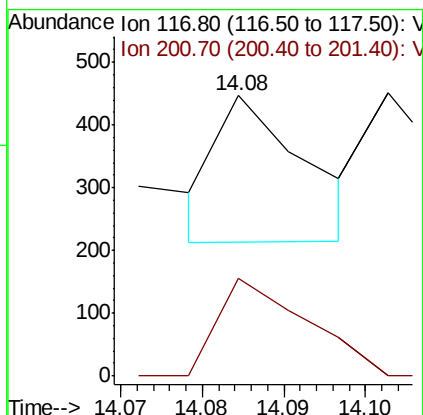
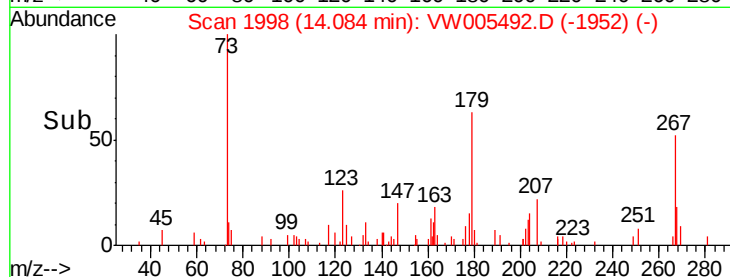
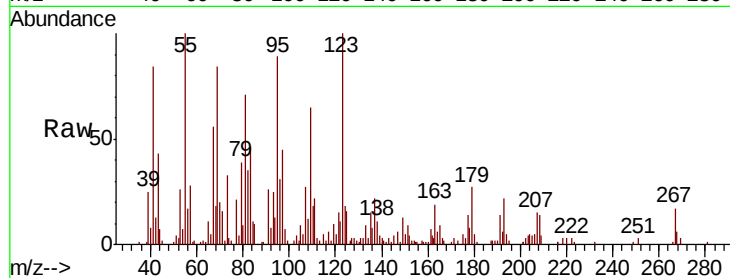
PHASE-2RE

Tgt Ion: 117 Resp: 175

Ion Ratio Lower Upper

117 100

201 67.4 42.5 127.5



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.721 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.01 min

Lab File: VW005492.D

Acq: 18 Sep 2018 20:54

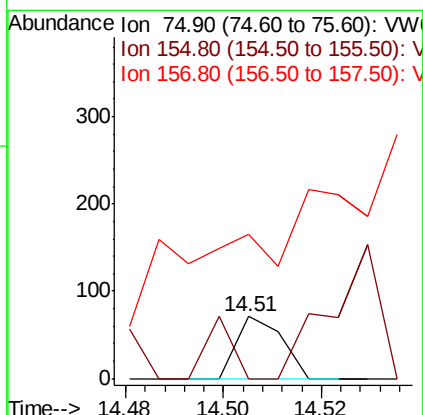
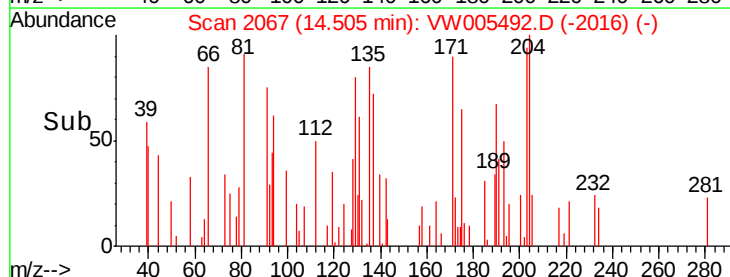
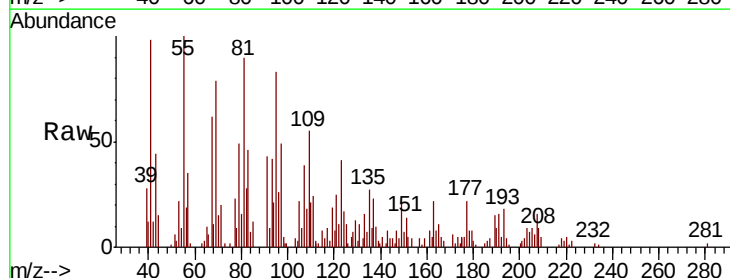
Tgt Ion: 75 Resp: 45

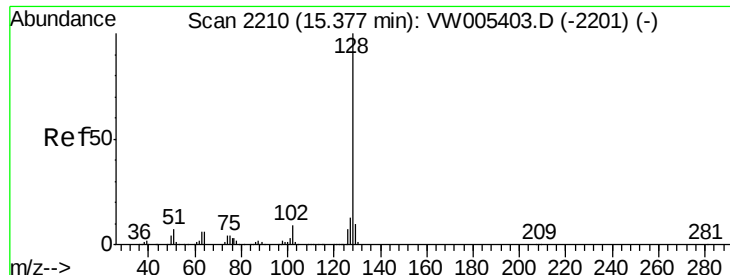
Ion Ratio Lower Upper

75 100

155 57.8 39.0 117.0

157 0.0 49.9 149.6#





#95
 Naphthalene
 Concen: 1.826 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. -0.01 min
 Lab File: VW005492.D
 Acq: 18 Sep 2018 20:54

Instrument :
 MSVOA_W
 ClientSampleId :
 PHASE-2RE

Tgt Ion	Ratio	Lower	Upper
128	100		
127	32.5	11.0	16.4#
129	51.5	8.7	13.1#

