

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091818\
 Data File : VW005493.D
 Acq On : 18 Sep 2018 21:19
 Operator : SY/AP
 Sample : J4936-31RE
 Misc : 5.70G/5ML/MSVOA_W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 PHASE-3RE

Quant Time: Sep 19 06:01:30 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	141166	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	198569	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	94025	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	15079	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.32	65	69930	47.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.44%	
35) Dibromofluoromethane	7.89	113	58850	52.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.72%	
50) Toluene-d8	10.33	98	164365	32.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	64.48%	
62) 4-Bromofluorobenzene	12.63	95	20885	11.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	22.34%	

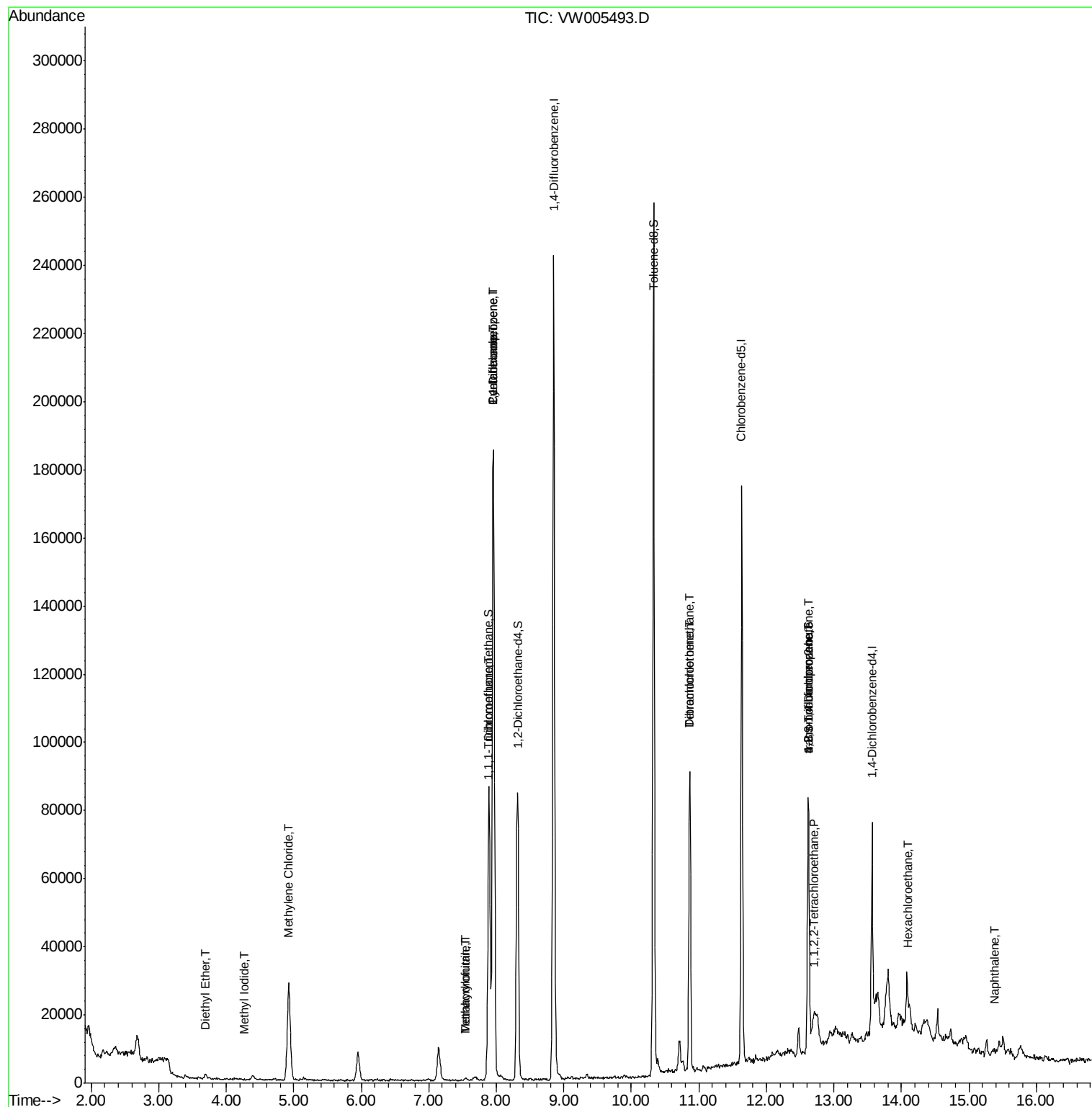
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	396	Below Cal	#	42
5) Bromomethane	2.78	94	323	Below Cal	#	57
8) Diethyl Ether	3.70	74	626	1.019	ug/l	76
10) Methyl Iodide	4.28	142	25	4.066	ug/l #	38
11) Tert butyl alcohol	5.15	59	64	Below Cal	#	71
13) Acrolein	4.03	56	19	Below Cal	#	12
16) Acetone	4.13	43	1040	Below Cal		90
20) Methylene Chloride	4.93	84	20679	9.585	ug/l	95
29) Tetrahydrofuran	7.54	42	524	2.334	ug/l #	82
31) Cyclohexane	7.96	56	3460	1.479	ug/l #	12
32) 1,1,1-Trichloroethane	7.88	97	4405	1.887	ug/l	99
36) 1,1-Dichloropropene	7.96	75	11119	5.917	ug/l #	51
41) Methacrylonitrile	7.55	41	742	1.609	ug/l #	42
60) Dibromochloromethane	10.87	129	16252	14.205	ug/l #	11
64) Tetrachloroethene	10.87	164	20895	30.069	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.70	83	1506	9.758	ug/l #	31
76) 1,2,3-Trichloropropane	12.62	75	10581	85.316	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	10581	221.315	ug/l #	9
90) Hexachloroethane	14.10	117	170	1.001	ug/l	90
95) Naphthalene	15.38	128	756	1.534	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005493.D

Acq: 18 Sep 2018 21:19

Instrument :

MSVOA_W

ClientSampleId :

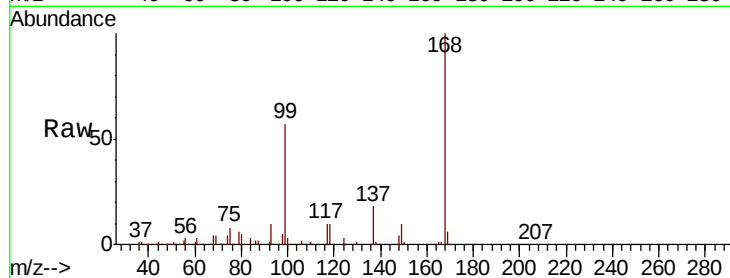
PHASE-3RE

Tgt Ion:168 Resp: 141166

Ion Ratio Lower Upper

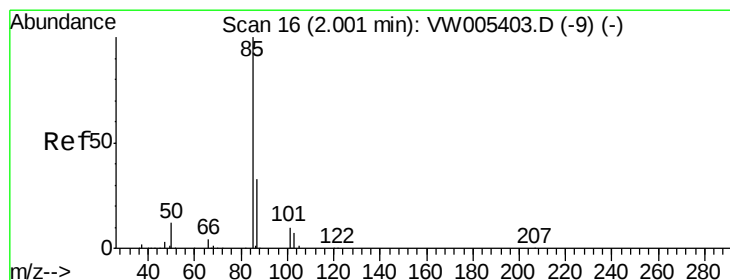
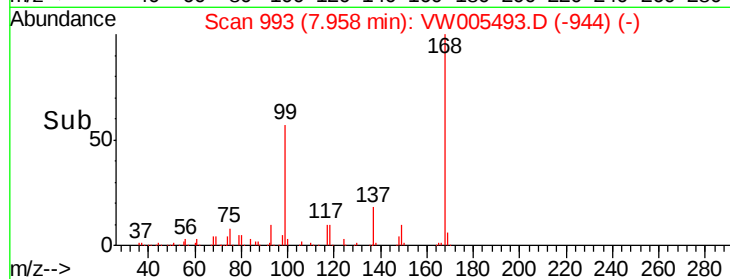
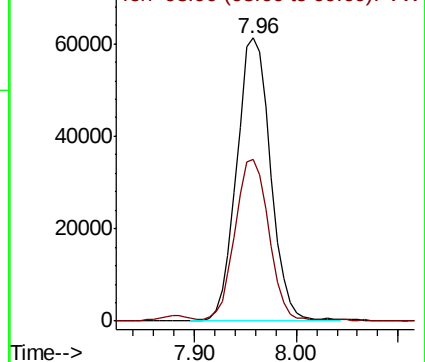
168 100

99 56.5 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: 2.01 min Scan# 17

Delta R.T. 0.01 min

Lab File: VW005493.D

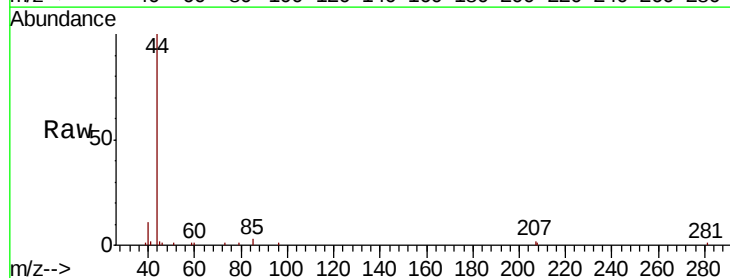
Acq: 18 Sep 2018 21:19

Tgt Ion: 85 Resp: 396

Ion Ratio Lower Upper

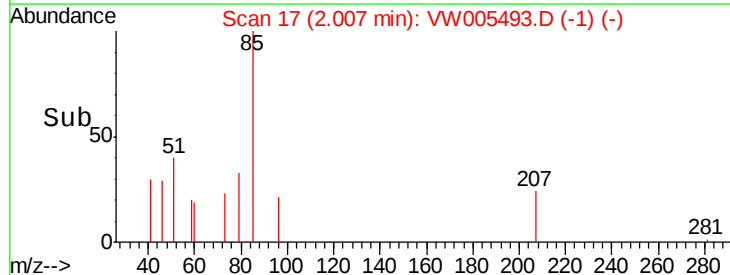
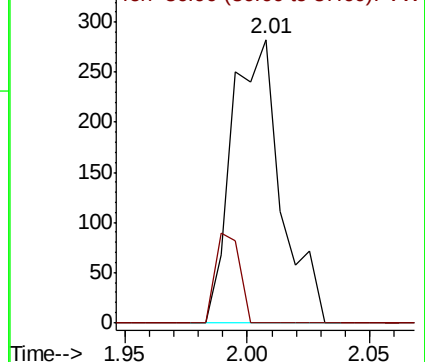
85 100

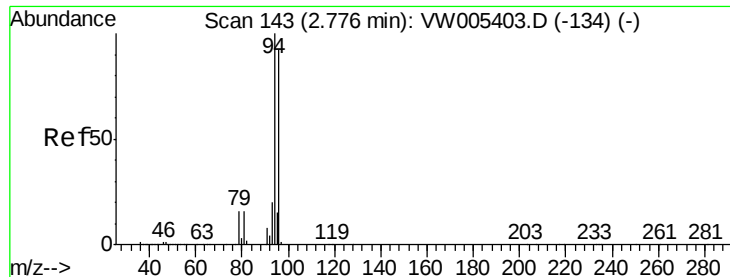
87 0.0 16.4 49.1#



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: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW005493.D

Acq: 18 Sep 2018 21:19

Instrument :

MSVOA_W

ClientSampleId :

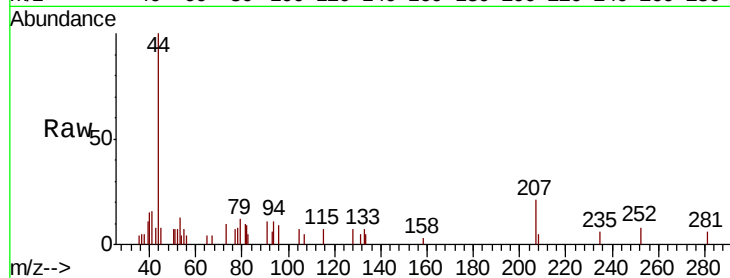
PHASE-3RE

Tgt Ion: 94 Resp: 323

Ion Ratio Lower Upper

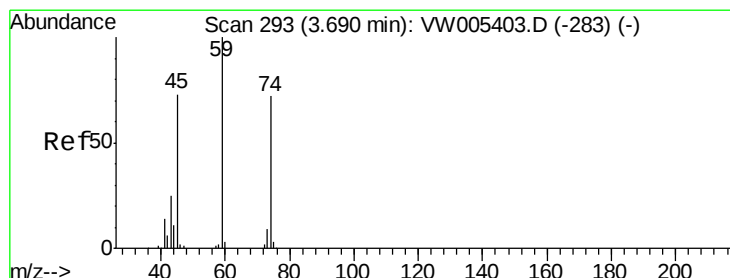
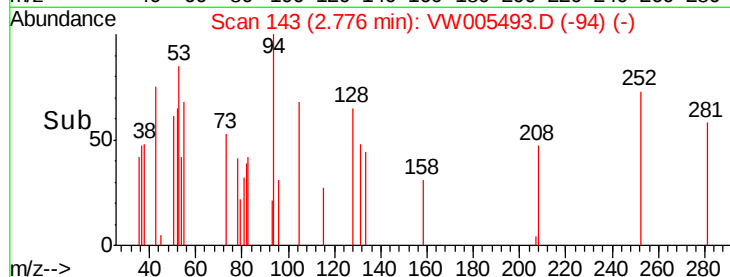
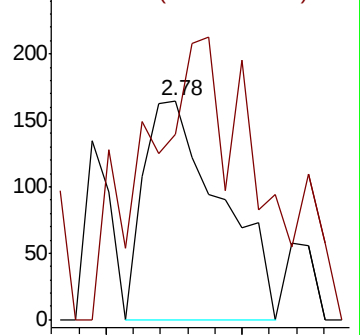
94 100

96 51.5 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#8

Diethyl Ether

Concen: 1.019 ug/l

RT: 3.70 min Scan# 294

Delta R.T. 0.01 min

Lab File: VW005493.D

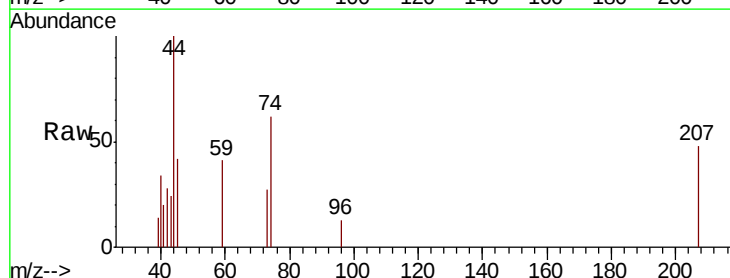
Acq: 18 Sep 2018 21:19

Tgt Ion: 74 Resp: 626

Ion Ratio Lower Upper

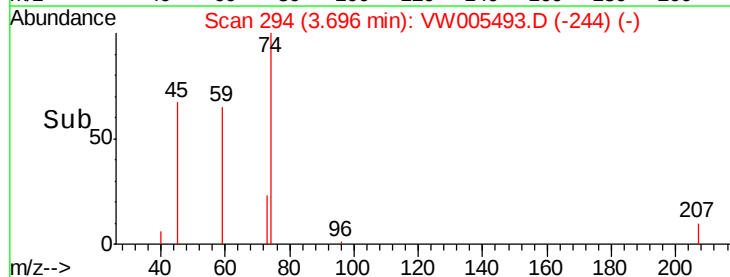
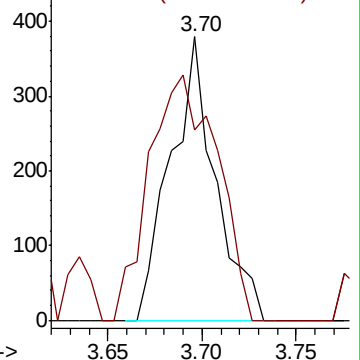
74 100

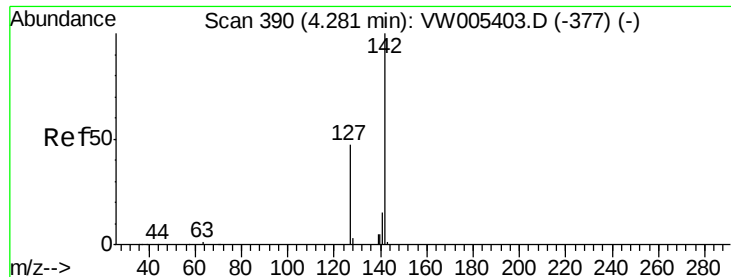
45 131.2 53.1 159.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

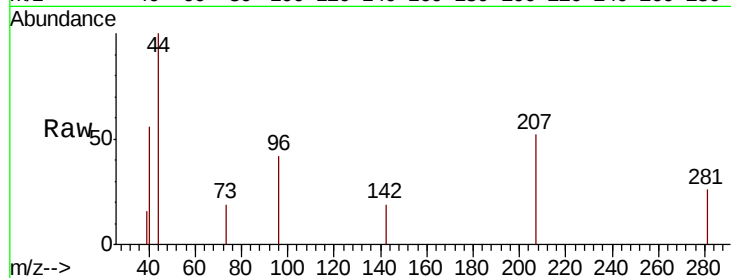




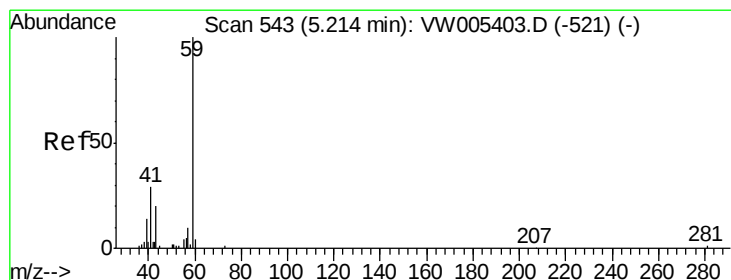
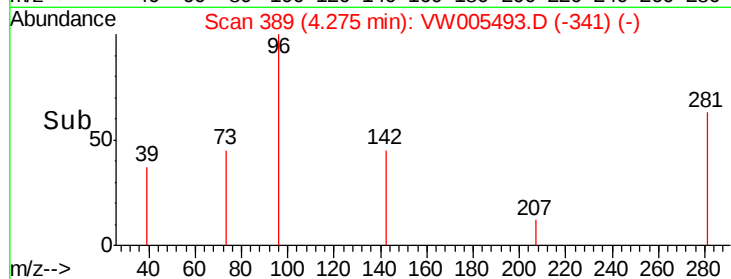
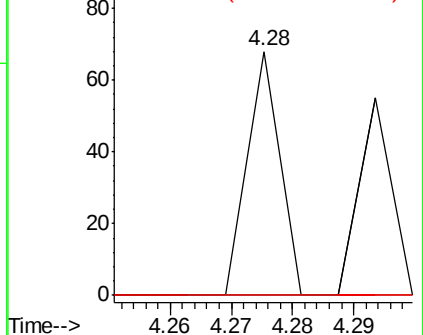
#10
Methyl Iodide
Concen: 4.066 ug/l
RT: 4.28 min Scan# 389
Delta R.T. -0.01 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

Instrument :
MSVOA_W
ClientSampleId :
PHASE-3RE

Tgt Ion	Ratio	Lower	Upper
142	100		
127	0.0	37.5	56.3#
141	0.0	12.4	18.6#

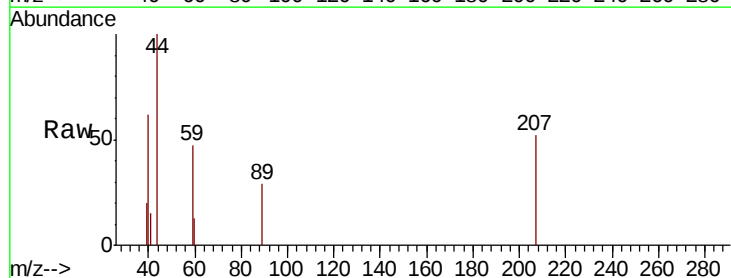


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

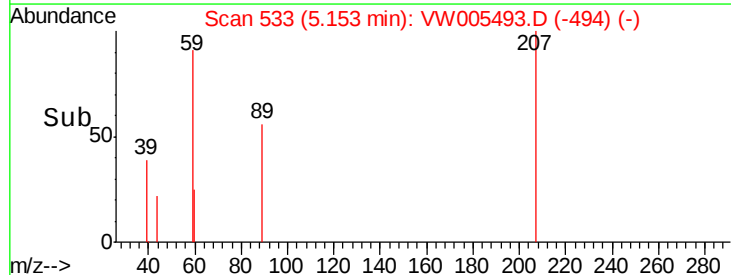
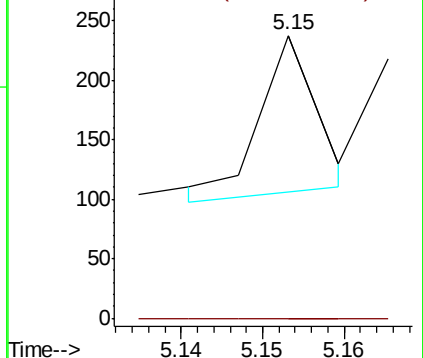


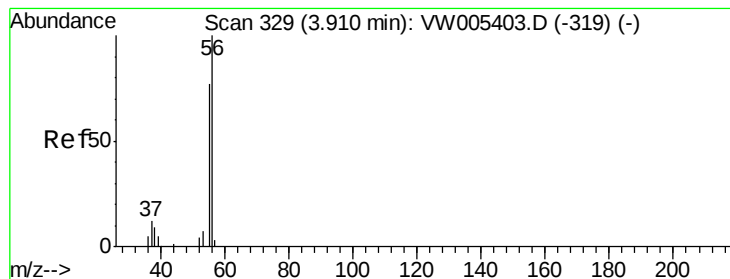
#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.15 min Scan# 533
Delta R.T. -0.06 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

Tgt 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: 4.03 min Scan# 348

Delta R.T. 0.12 min

Lab File: VW005493.D

Acq: 18 Sep 2018 21:19

Instrument :

MSVOA_W

ClientSampled :

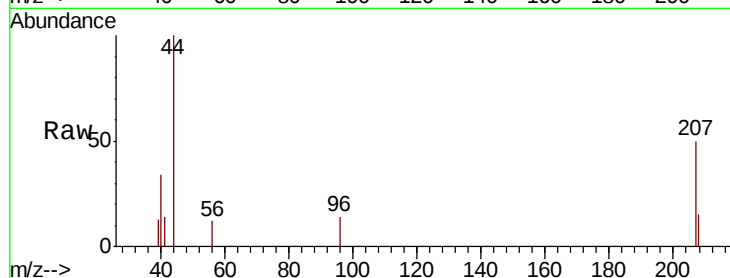
PHASE-3RE

Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

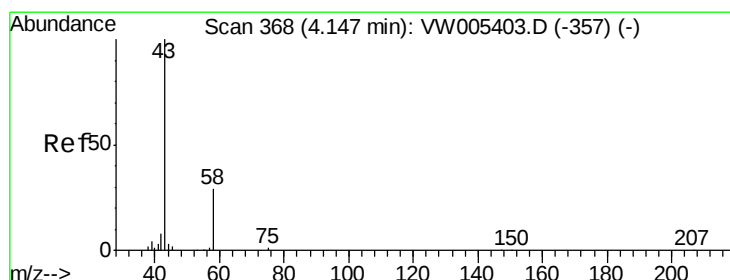
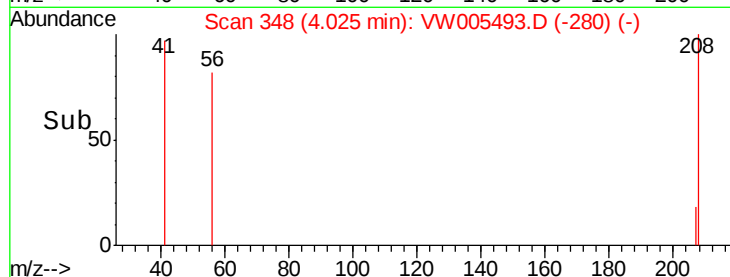
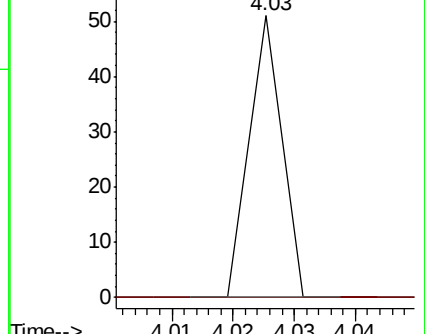
56 100

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: 4.13 min Scan# 365

Delta R.T. -0.02 min

Lab File: VW005493.D

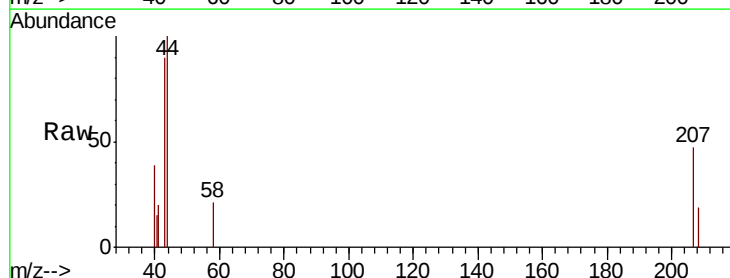
Acq: 18 Sep 2018 21:19

Tgt Ion: 43 Resp: 1040

Ion Ratio Lower Upper

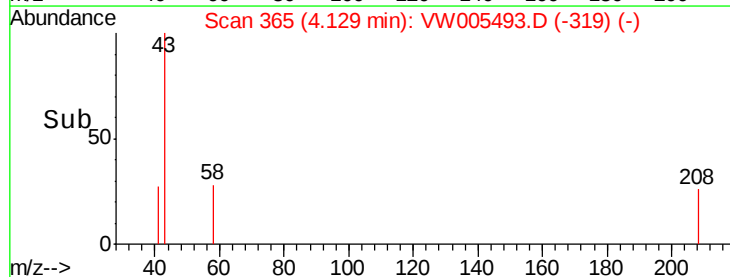
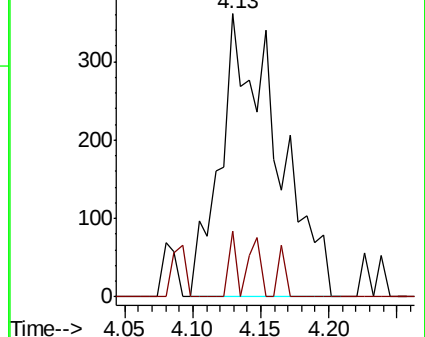
43 100

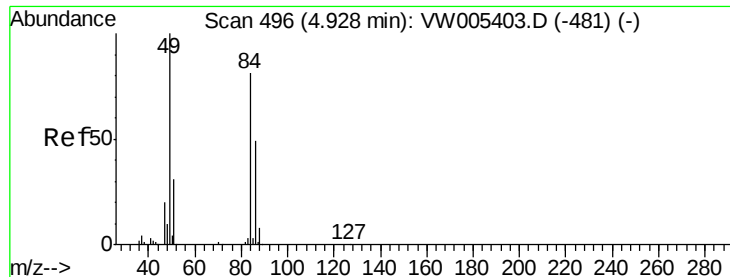
58 23.3 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

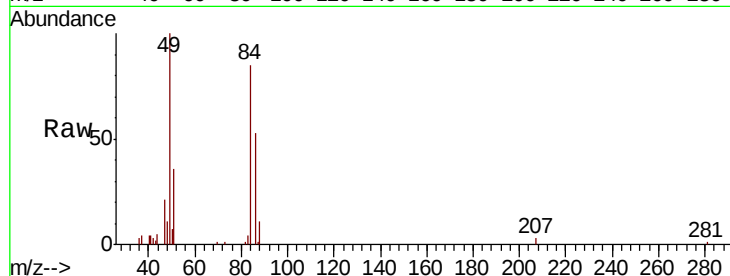




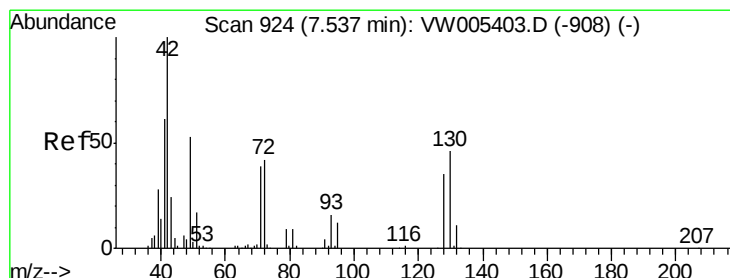
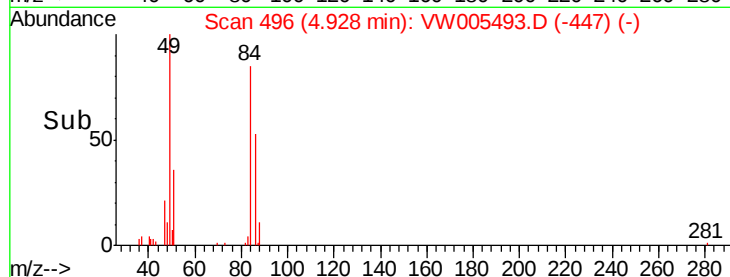
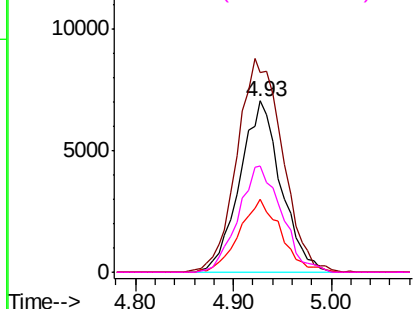
#20
Methylene Chloride
Concen: 9.585 ug/l
RT: 4.93 min Scan# 496
Delta R.T. 0.00 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

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PHASE-3RE

Tgt Ion:	84	Resp:	20679
Ion	Ratio	Lower	Upper
84	100		
49	116.3	99.3	148.9
51	42.3	31.1	46.7
86	61.7	49.1	73.7

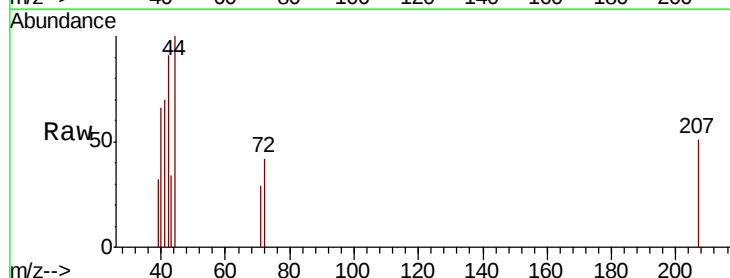


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

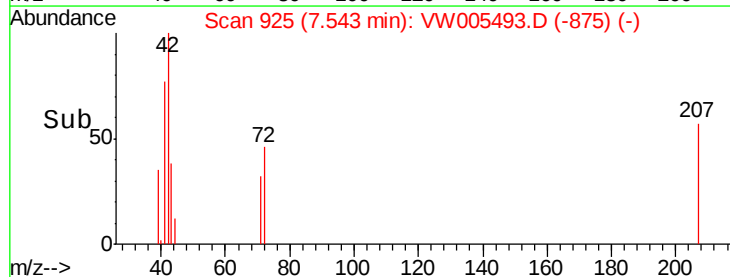
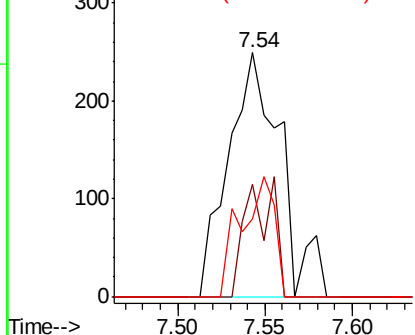


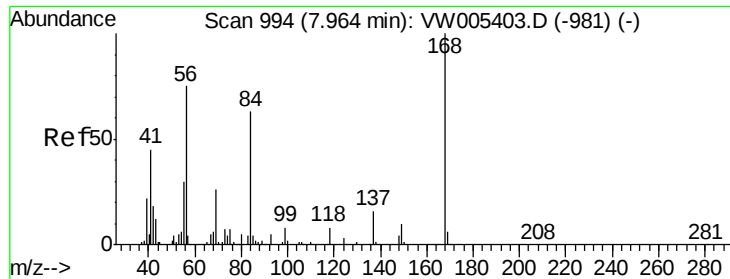
#29
Tetrahydrofuran
Concen: 2.334 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

Tgt Ion:	42	Resp:	524
Ion	Ratio	Lower	Upper
42	100		
72	26.0	33.2	49.8#
71	31.7	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

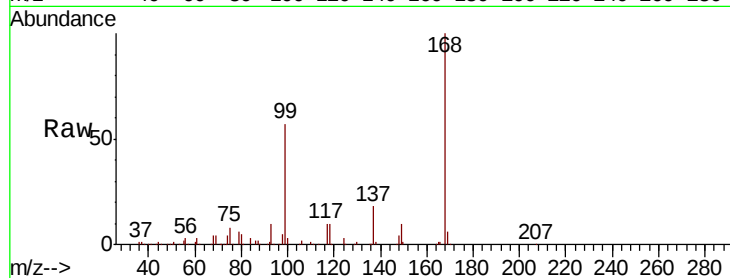




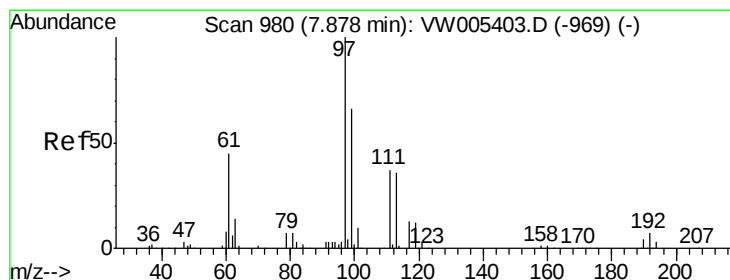
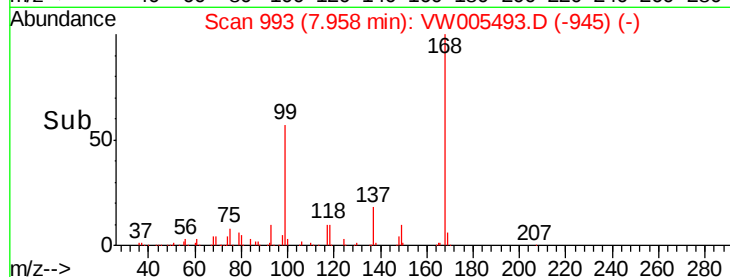
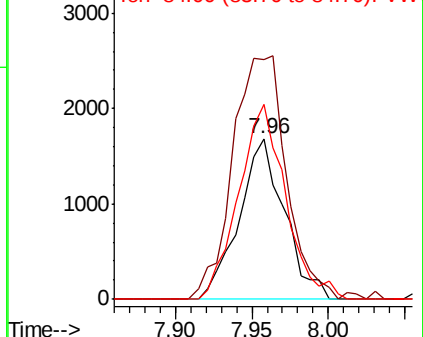
#31
Cyclohexane
Concen: 1.479 ug/l
RT: 7.96 min Scan# 993
Delta R.T. -0.01 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

Instrument :
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PHASE-3RE

Tgt Ion: 56 Resp: 3460
Ion Ratio Lower Upper
56 100
69 149.4 27.2 40.8#
84 121.2 66.7 100.1#

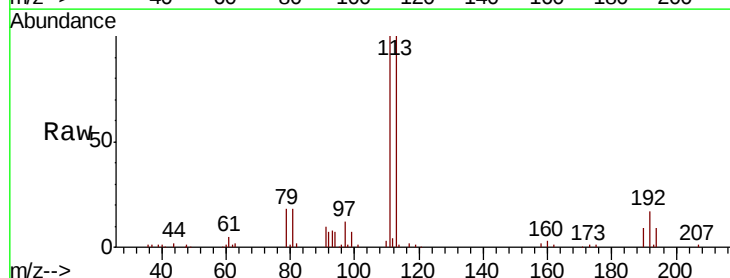


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

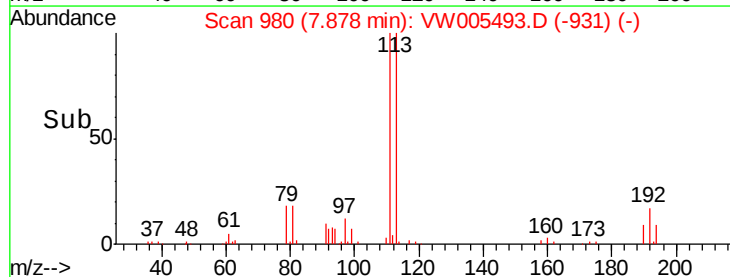
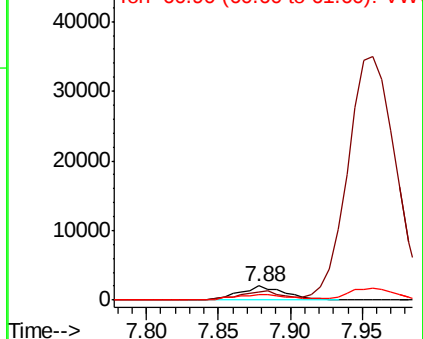


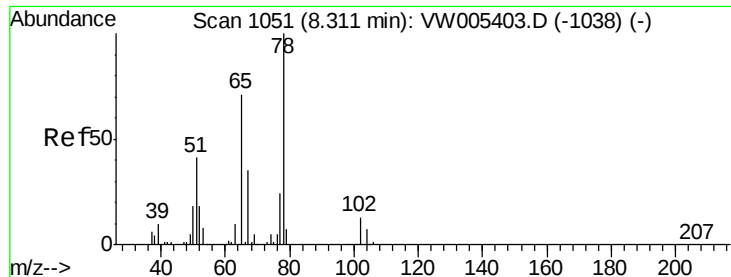
#32
1,1,1-Trichloroethane
Concen: 1.887 ug/l
RT: 7.88 min Scan# 980
Delta R.T. -0.00 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

Tgt Ion: 97 Resp: 4405
Ion Ratio Lower Upper
97 100
99 63.0 51.5 77.3
61 44.7 35.8 53.6



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 98.90 (98.60 to 99.60): VW
Ion 60.90 (60.60 to 61.60): VW

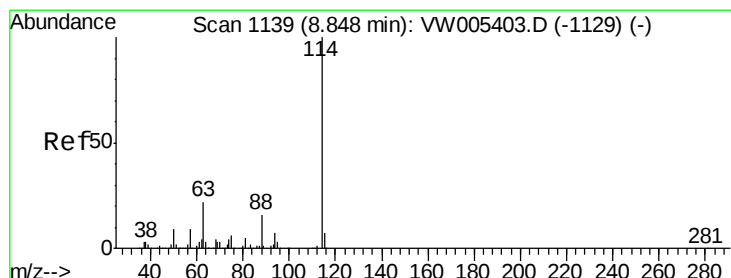
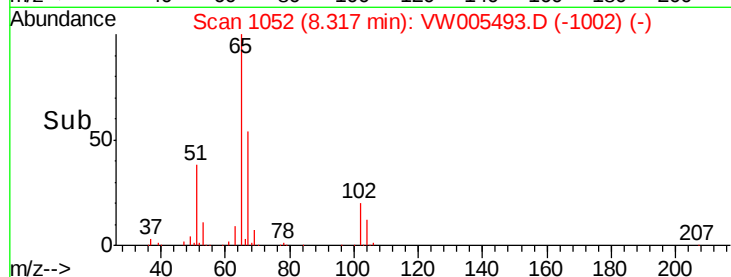
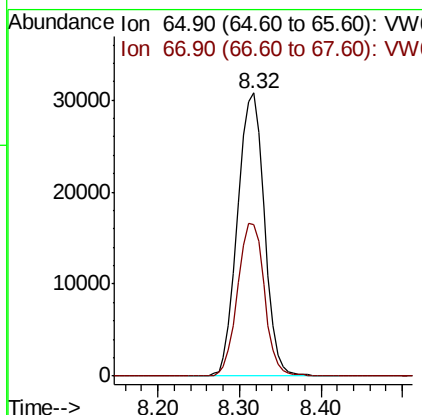
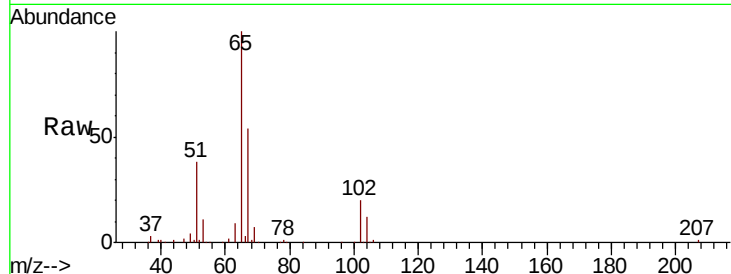




#33
 1,2-Dichloroethane-d4
 Concen: 47.724 ug/l
 RT: 8.32 min Scan# 1052
 Delta R.T. 0.01 min
 Lab File: VW005493.D
 Acq: 18 Sep 2018 21:19

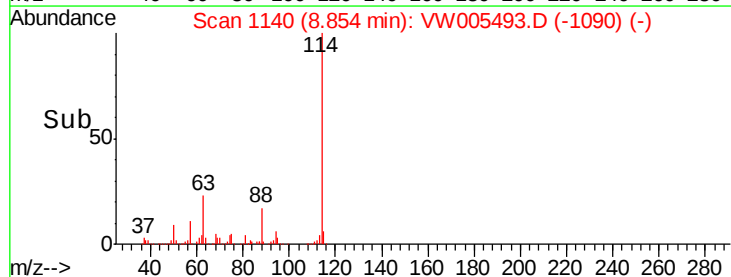
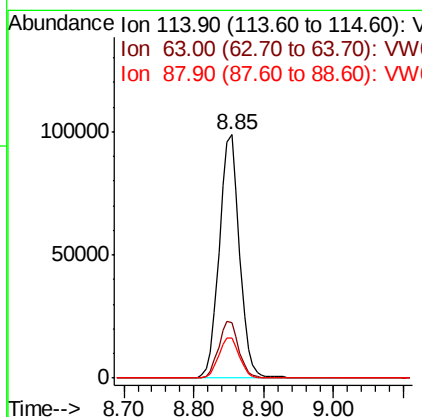
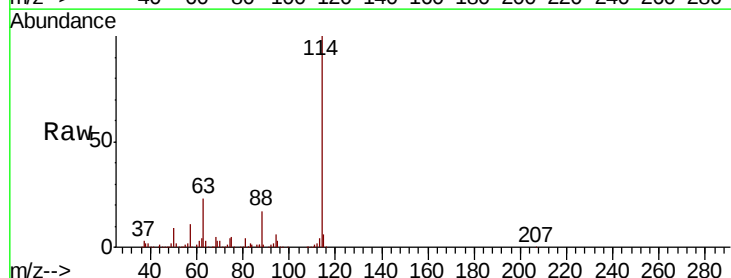
Instrument :
 MSVOA_W
 ClientSampleId :
 PHASE-3RE

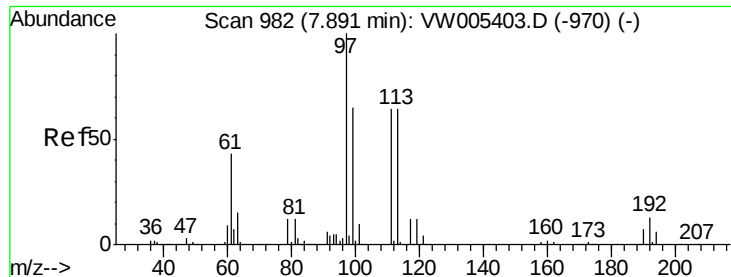
Tgt Ion: 65 Resp: 69930
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VW005493.D
 Acq: 18 Sep 2018 21:19

Tgt Ion: 114 Resp: 198569
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 43.4
 88 16.6 0.0 31.8

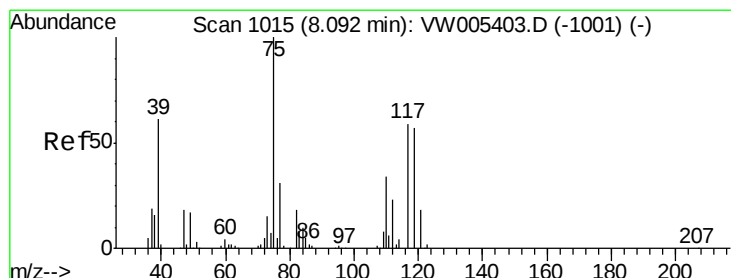
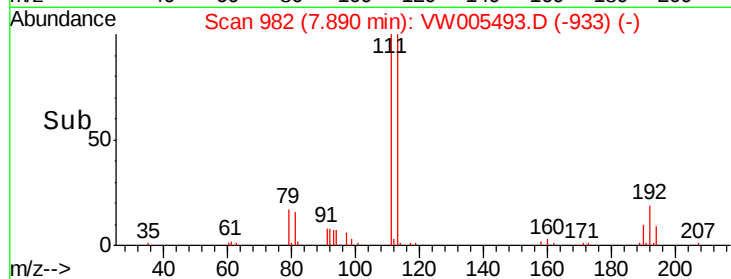
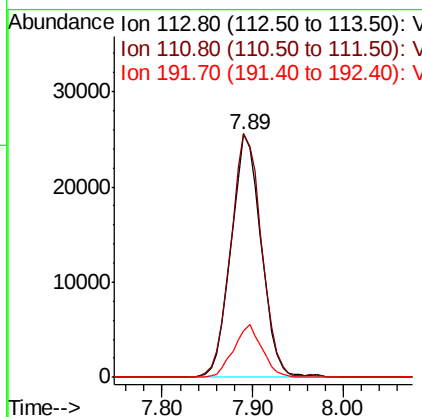
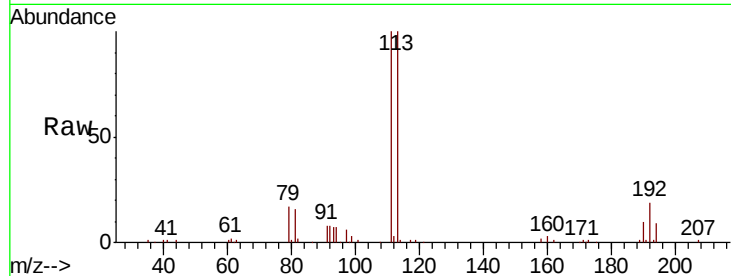




#35
 Dibromofluoromethane
 Concen: 52.859 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW005493.D
 Acq: 18 Sep 2018 21:19

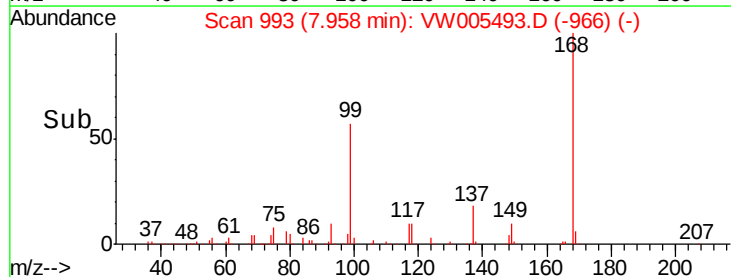
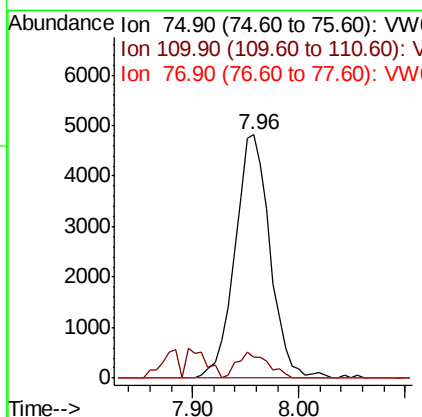
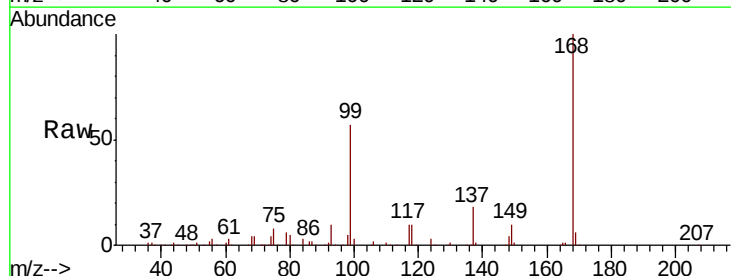
Instrument :
 MSVOA_W
 ClientSampleId :
 PHASE-3RE

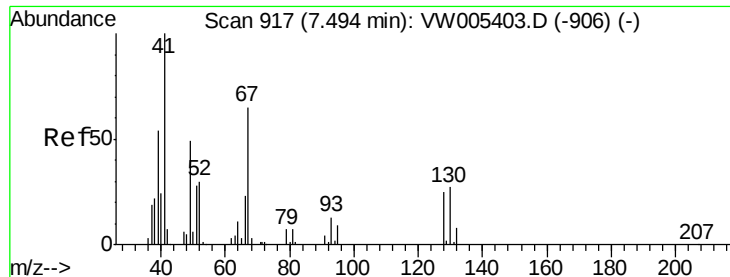
Tgt Ion:113 Resp: 58850
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.3 123.5
 192 20.3 16.5 24.7



#36
 1,1-Dichloropropene
 Concen: 5.917 ug/l
 RT: 7.96 min Scan# 993
 Delta R.T. -0.13 min
 Lab File: VW005493.D
 Acq: 18 Sep 2018 21:19

Tgt Ion: 75 Resp: 11119
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.8 50.4#
 77 0.0 24.2 36.4#

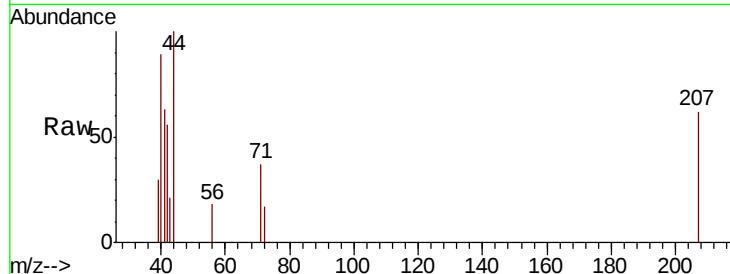




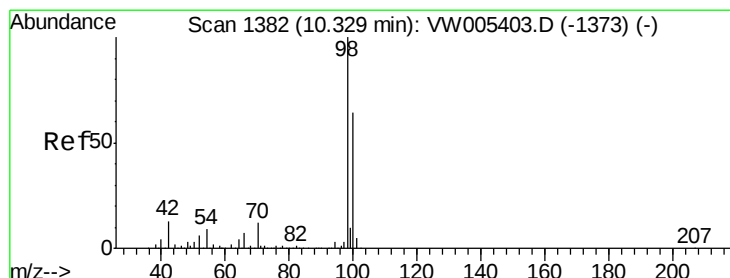
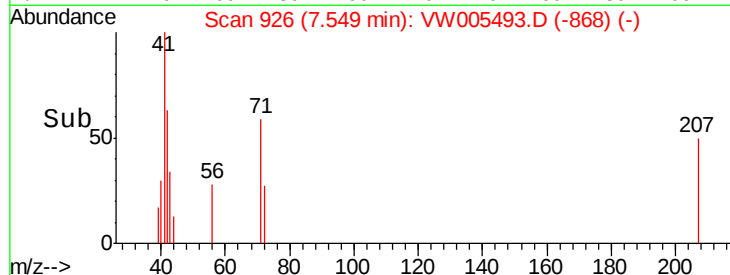
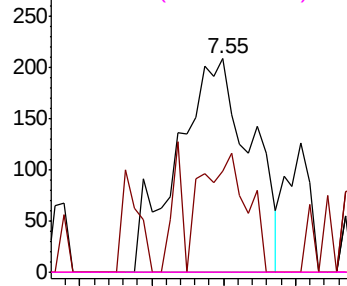
#41
Methacrylonitrile
Concen: 1.609 ug/l
RT: 7.55 min Scan# 926
Delta R.T. 0.05 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

Instrument :
MSVOA_W
ClientSampleId :
PHASE-3RE

Tgt Ion: 41 Resp: 742
Ion Ratio Lower Upper
41 100
39 34.8 44.6 67.0#
67 0.0 53.6 80.4#
52 0.0 24.9 37.3#

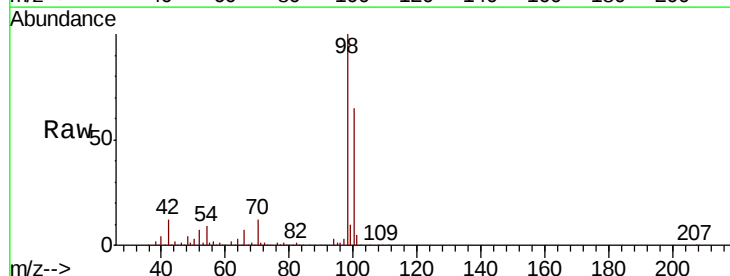


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

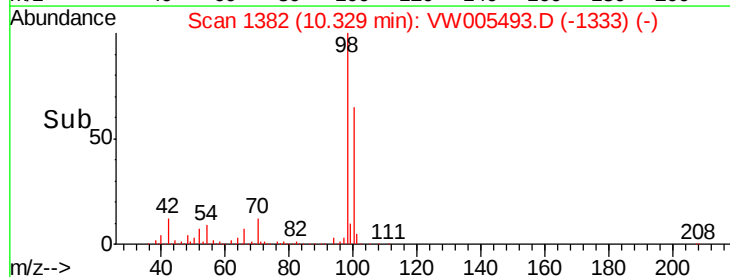
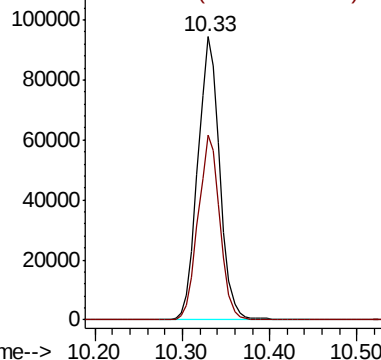


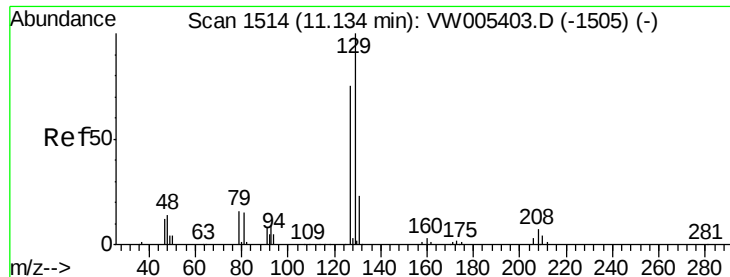
#50
Toluene-d8
Concen: 32.237 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

Tgt Ion: 98 Resp: 164365
Ion Ratio Lower Upper
98 100
100 64.9 51.4 77.0



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





#60

Dibromochloromethane

Concen: 14.205 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. -0.27 min

Lab File: VW005493.D

Acq: 18 Sep 2018 21:19

Instrument :

MSVOA_W

ClientSampleId :

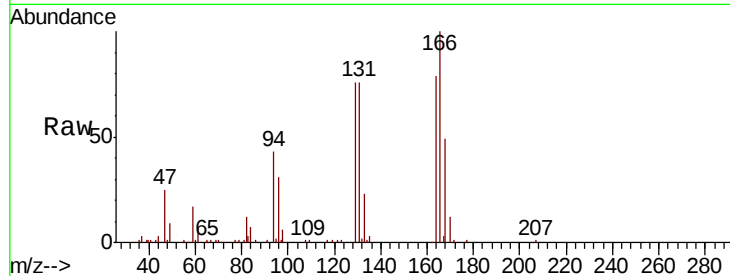
PHASE-3RE

Tgt Ion: 129 Resp: 16252

Ion Ratio Lower Upper

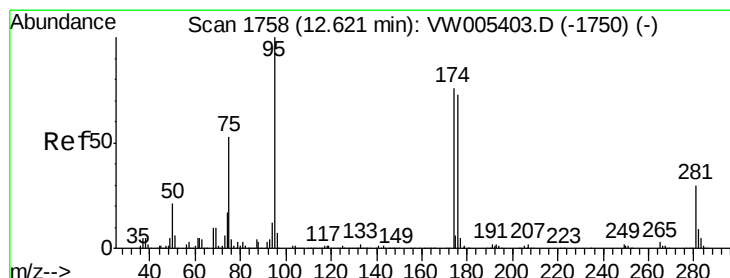
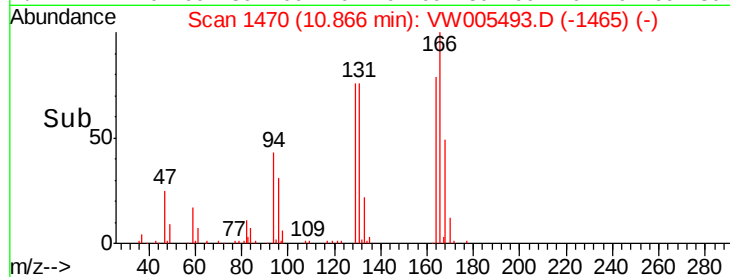
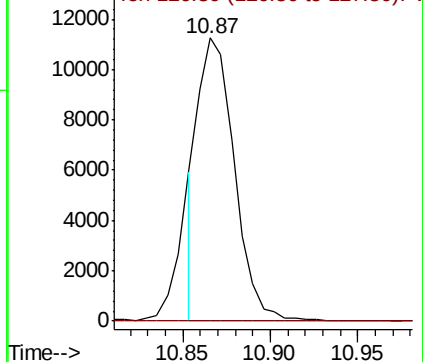
129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 11.171 ug/l

RT: 12.63 min Scan# 1759

Delta R.T. 0.01 min

Lab File: VW005493.D

Acq: 18 Sep 2018 21:19

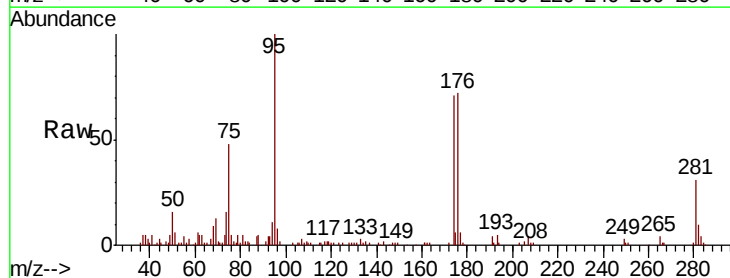
Tgt Ion: 95 Resp: 20885

Ion Ratio Lower Upper

95 100

174 73.5 0.0 161.2

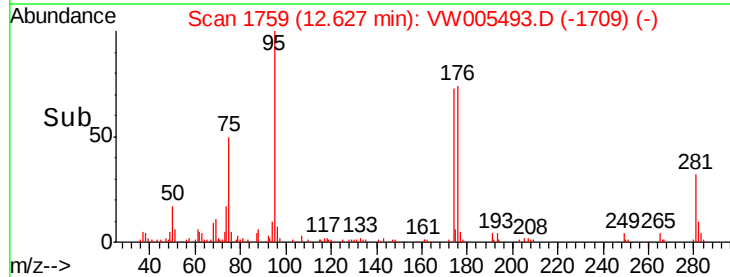
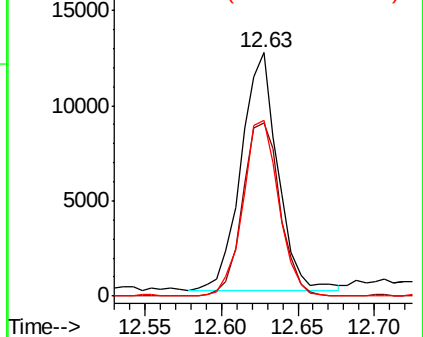
176 71.8 0.0 156.6

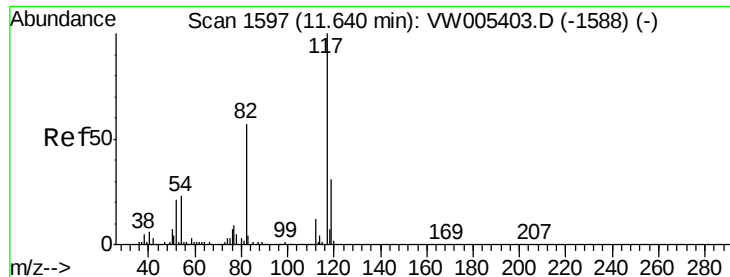


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

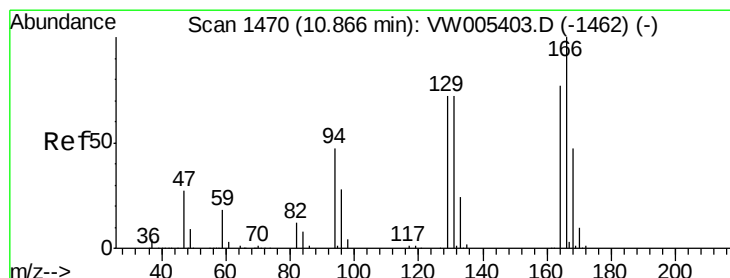
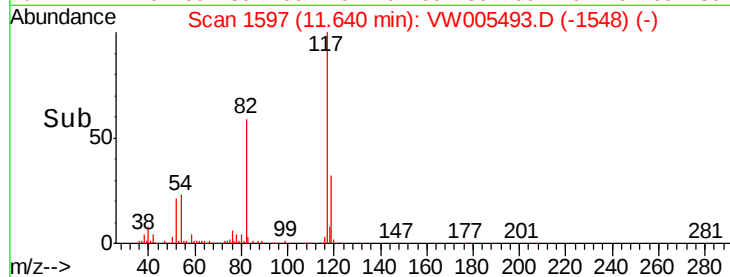
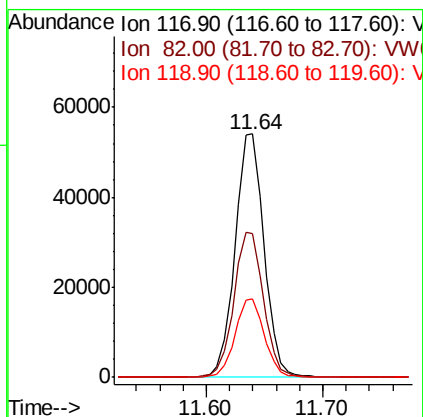
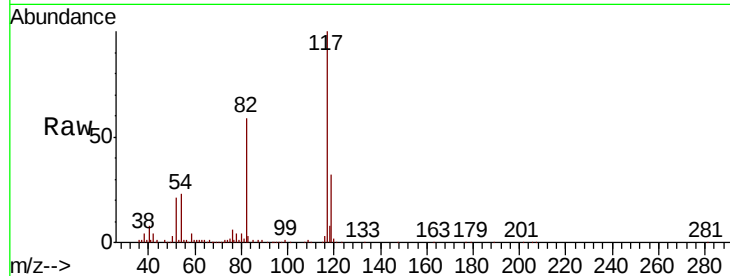




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1597
Delta R.T. -0.00 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

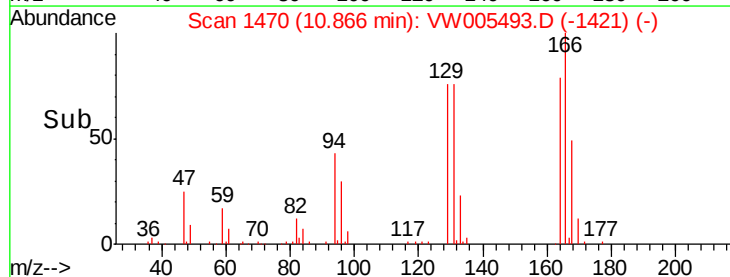
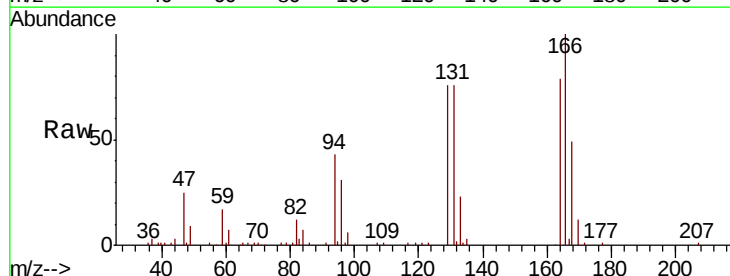
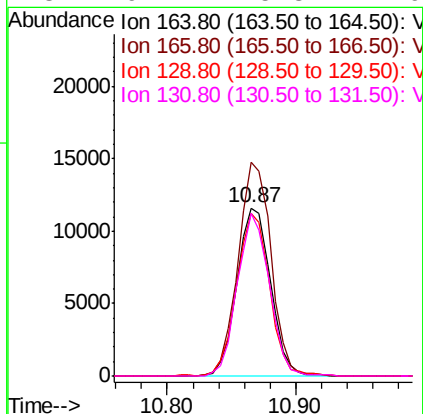
Instrument :
MSVOA_W
ClientSampleId :
PHASE-3RE

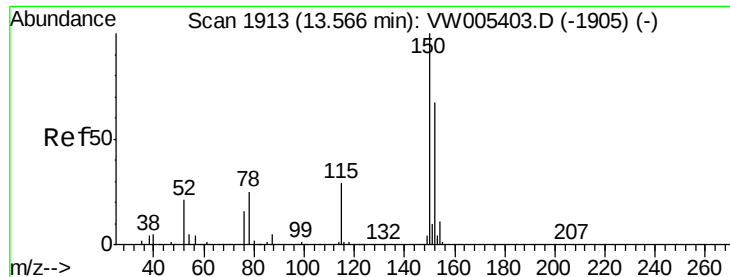
Tgt Ion:117 Resp: 94025
Ion Ratio Lower Upper
117 100
82 58.9 45.9 68.9
119 31.9 24.8 37.2



#64
Tetrachloroethene
Concen: 30.069 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW005493.D
Acq: 18 Sep 2018 21:19

Tgt Ion:164 Resp: 20895
Ion Ratio Lower Upper
164 100
166 127.2 104.0 156.0
129 97.0 74.9 112.3
131 97.2 75.3 112.9

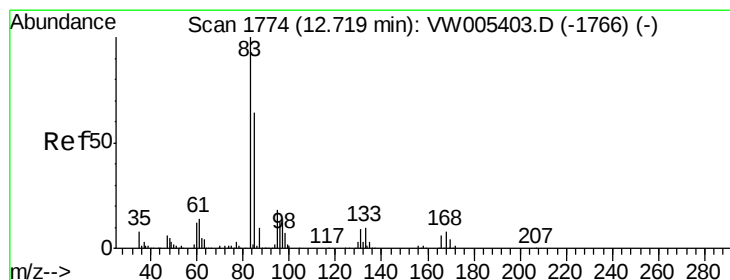
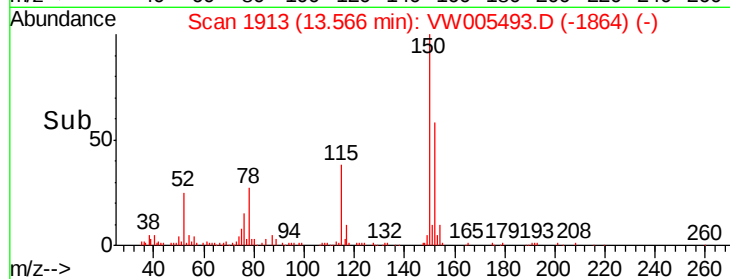
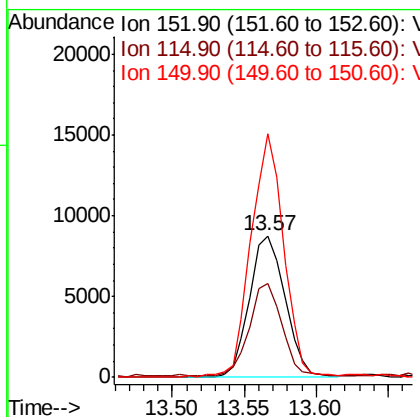
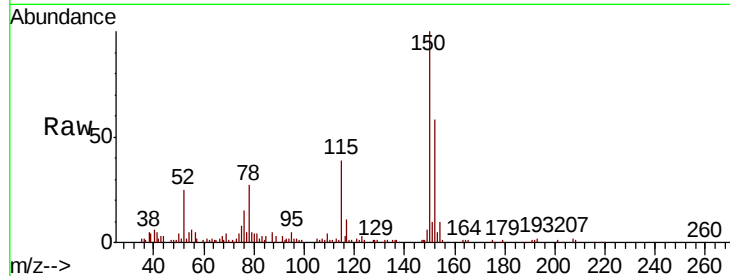




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.57 min Scan# 1913
 Delta R.T. -0.00 min
 Lab File: VW005493.D
 Acq: 18 Sep 2018 21:19

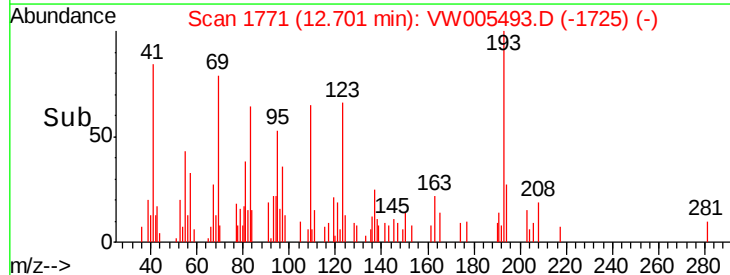
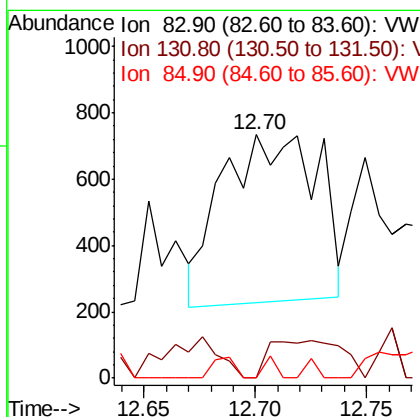
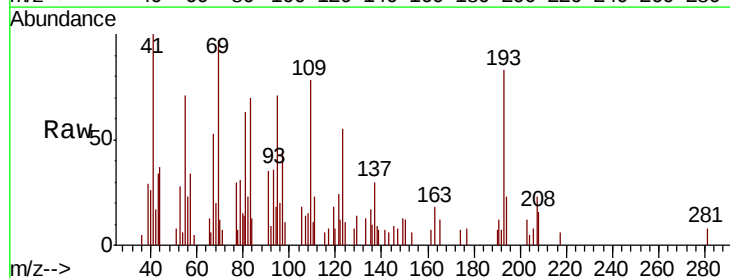
Instrument :
 MSVOA_W
 ClientSampleId :
 PHASE-3RE

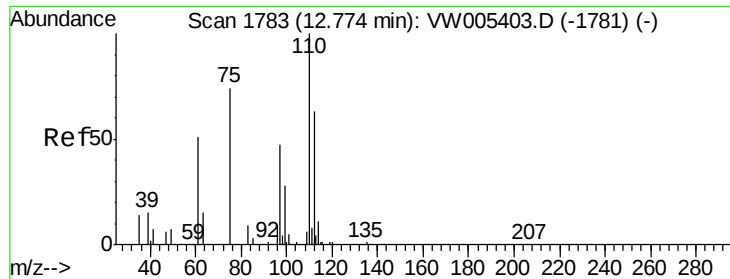
Tgt Ion: 152 Resp: 15079
 Ion Ratio Lower Upper
 152 100
 115 59.9 29.5 88.5
 150 156.8 0.0 345.6



#75
 1,1,2,2-Tetrachloroethane
 Concen: 9.758 ug/l
 RT: 12.70 min Scan# 1771
 Delta R.T. -0.02 min
 Lab File: VW005493.D
 Acq: 18 Sep 2018 21:19

Tgt Ion: 83 Resp: 1506
 Ion Ratio Lower Upper
 83 100
 131 7.8 5.7 17.1
 85 1.7 31.6 95.0#

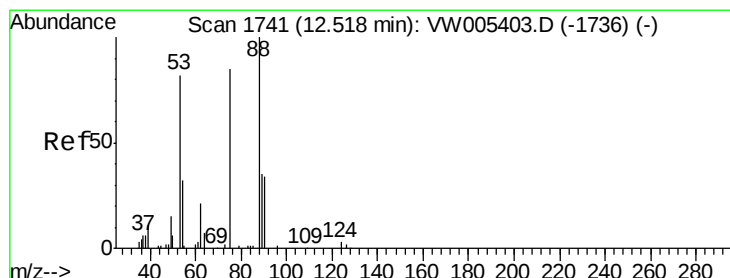
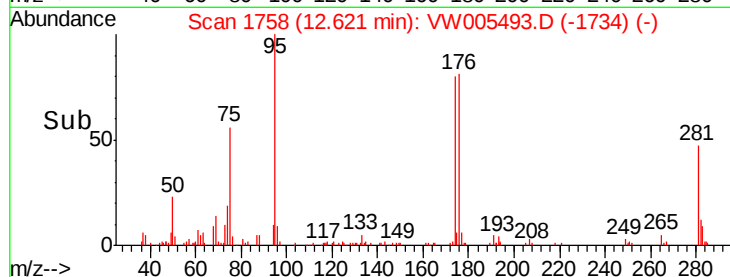
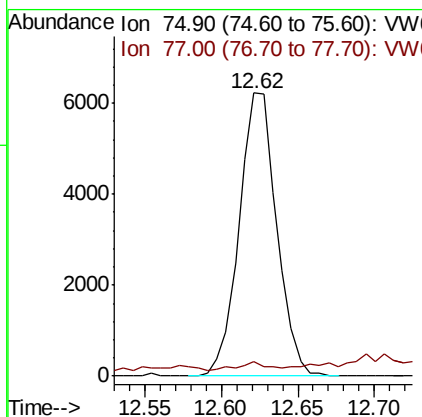
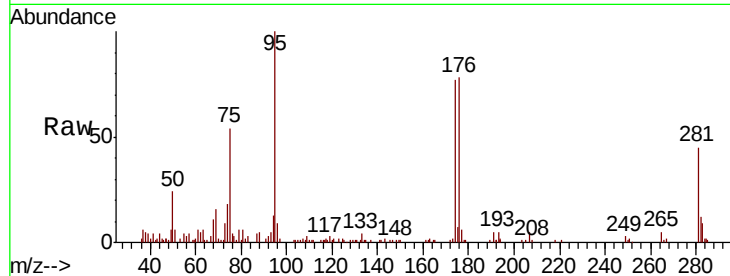




#76
 1,2,3-Trichloropropane
 Concen: 85.316 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW005493.D
 Acq: 18 Sep 2018 21:19

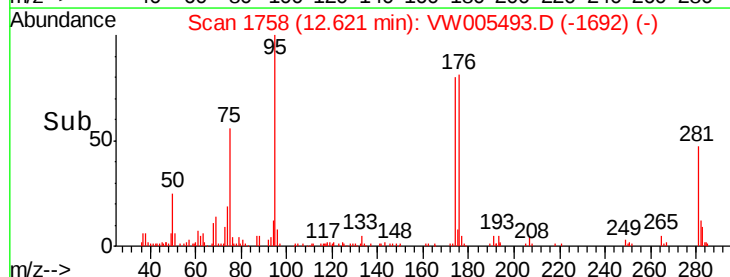
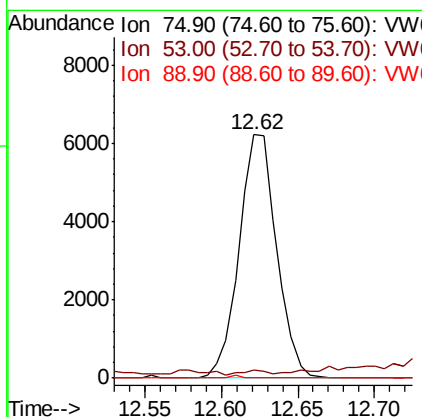
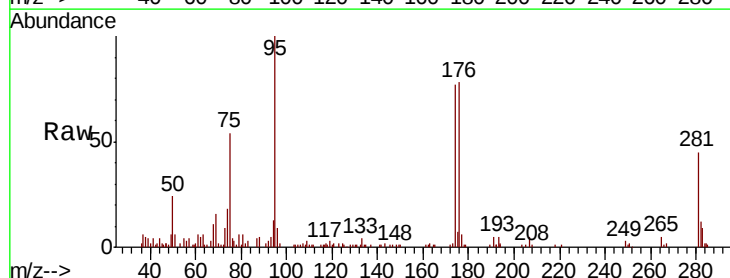
Instrument :
 MSVOA_W
 ClientSampleId :
 PHASE-3RE

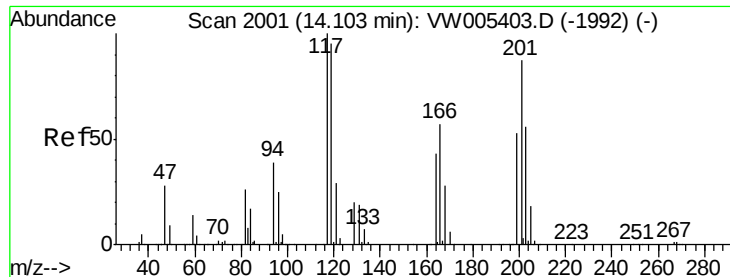
Tgt Ion: 75 Resp: 10581
 Ion Ratio Lower Upper
 75 100
 77 2.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 221.315 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW005493.D
 Acq: 18 Sep 2018 21:19

Tgt Ion: 75 Resp: 10581
 Ion Ratio Lower Upper
 75 100
 53 1.0 83.2 124.8#
 89 0.3 36.6 54.8#





#90

Hexachloroethane

Concen: 1.001 ug/l

RT: 14.10 min Scan# 2001

Delta R.T. -0.00 min

Lab File: VW005493.D

Acq: 18 Sep 2018 21:19

Instrument :

MSVOA_W

ClientSampled :

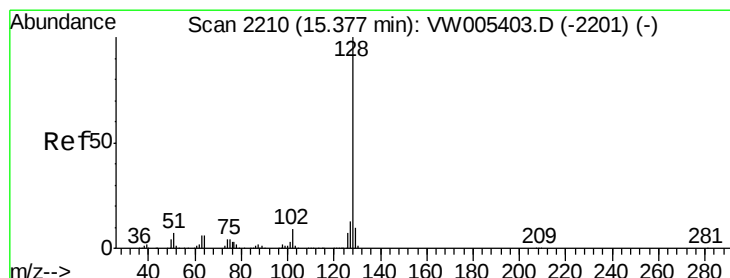
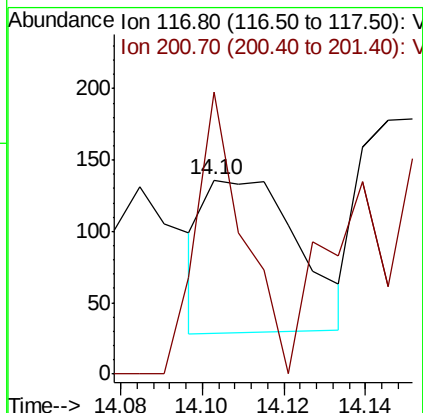
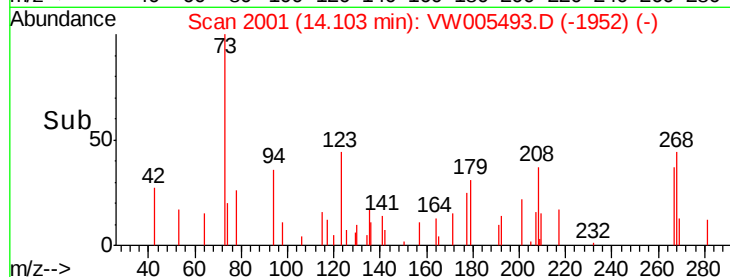
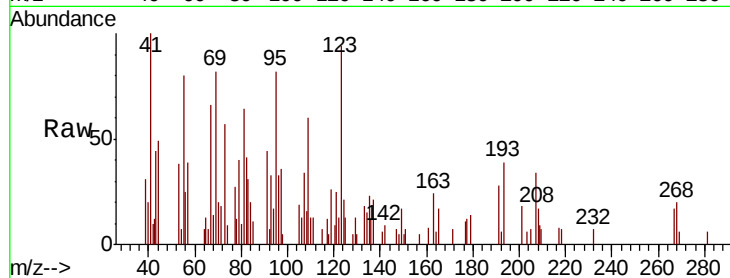
PHASE-3RE

Tgt Ion:117 Resp: 170

Ion Ratio Lower Upper

117 100

201 94.1 42.5 127.5



#95

Naphthalene

Concen: 1.534 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW005493.D

Acq: 18 Sep 2018 21:19

Tgt Ion:128 Resp: 756

Ion Ratio Lower Upper

128 100

127 2.8 11.0 16.4#

129 24.5 8.7 13.1#

