

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW082119\
 Data File : VW012066.D
 Acq On : 21 Aug 2019 12:43
 Operator : SY/VA
 Sample : K4388-01RE
 Misc : 6.52G/5ML/MSVOA_W/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T4-B3-(0)

Quant Time: Aug 22 05:14:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	19342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	30314	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	24210	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	5559	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	12971	58.40	ug/l	0.00
Spiked Amount			Recovery	=	116.80%	
35) Dibromofluoromethane	7.89	113	10186	59.89	ug/l	0.00
Spiked Amount			Recovery	=	119.78%	
50) Toluene-d8	10.32	98	35719	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	12.62	95	9575	38.57	ug/l	0.00
Spiked Amount			Recovery	=	77.14%	

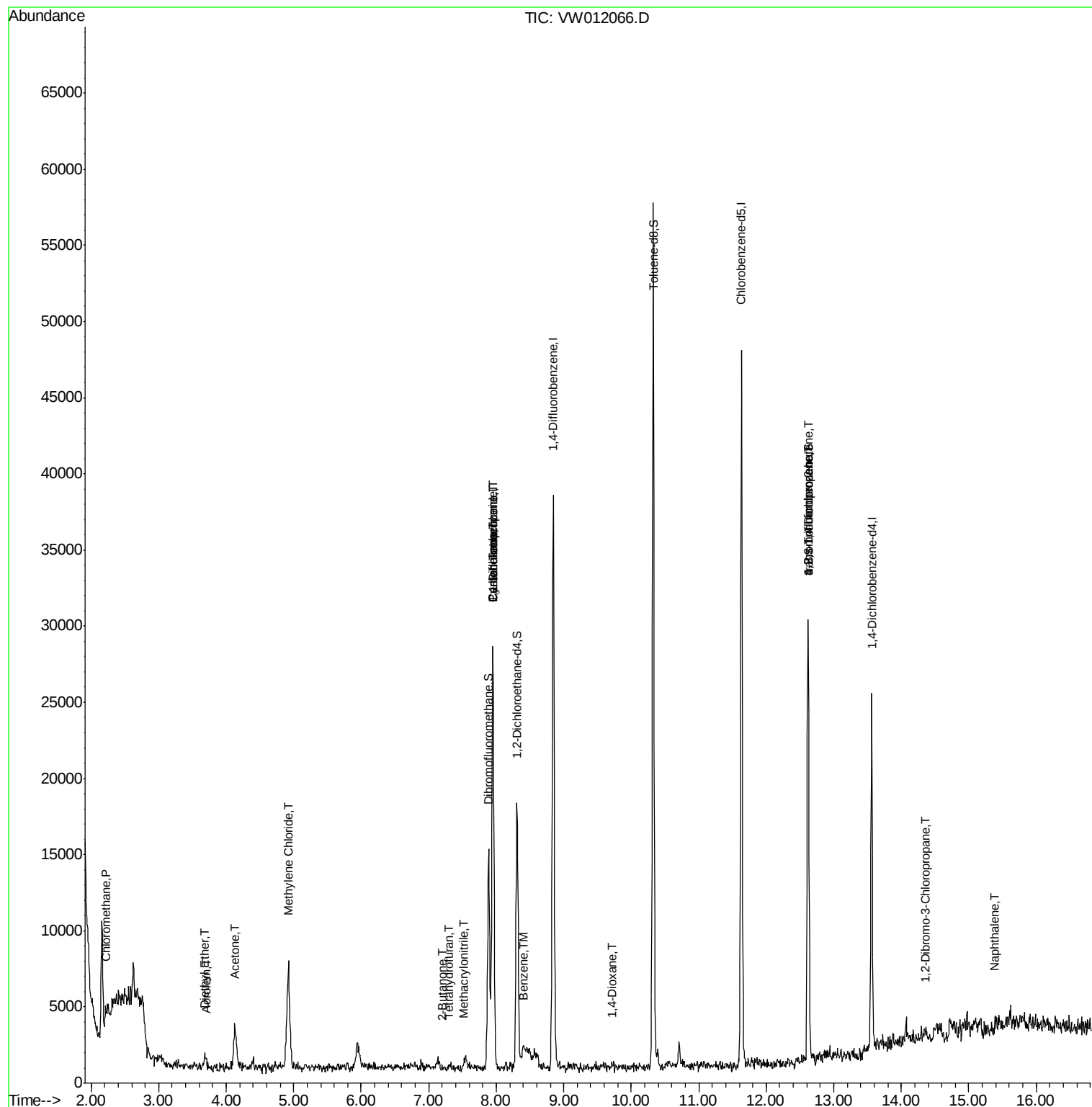
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	194	1.038	ug/l #	43
8) Diethyl Ether	3.68	74	436	3.824	ug/l	79
11) Tert butyl alcohol	5.19	59	64	Below Cal	#	72
13) Acrolein	3.71	56	20	1.255	ug/l #	15
16) Acetone	4.13	43	5522	78.161	ug/l #	89
20) Methylene Chloride	4.92	84	4354	17.869	ug/l	92
25) 2-Butanone	7.19	43	110	1.190	ug/l #	56
29) Tetrahydrofuran	7.29	42	68	1.287	ug/l	90
31) Cyclohexane	7.95	56	699	1.683	ug/l #	35
36) 1,1-Dichloropropene	7.95	75	1893	6.006	ug/l #	48
38) Carbon Tetrachloride	7.95	117	1870	6.930	ug/l #	21
40) Benzene	8.41	78	2301	2.606	ug/l	97
41) Methacrylonitrile	7.51	41	192	1.771	ug/l #	40
49) 1,4-Dioxane	9.72	88	32	20.497	ug/l #	15
76) 1,2,3-Trichloropropane	12.62	75	5224	88.812	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	5224	204.682	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.37	75	19	1.428	ug/l #	5
95) Naphthalene	15.38	128	92	2.468	ug/l #	41

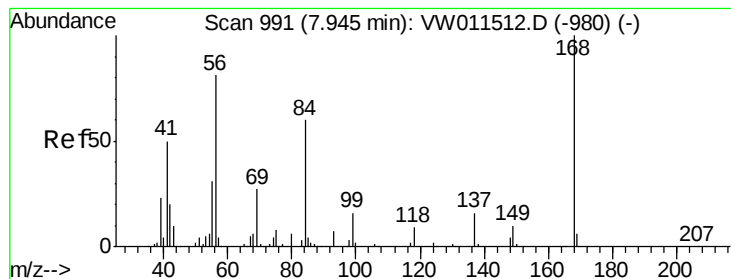
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

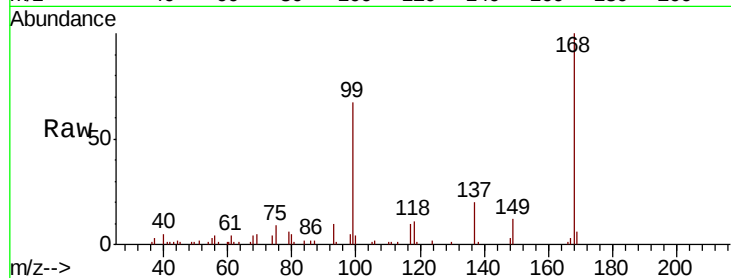
T4-B3-(0)

Tgt Ion:168 Resp: 19342

Ion Ratio Lower Upper

168 100

99 67.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

8000

6000

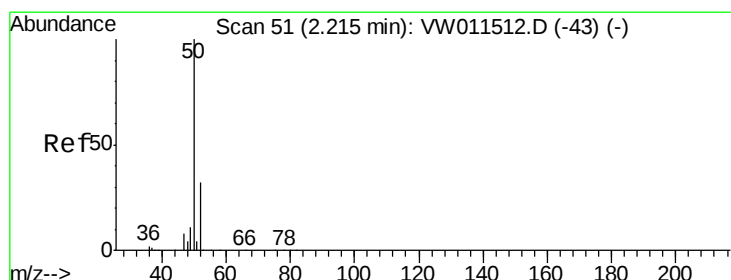
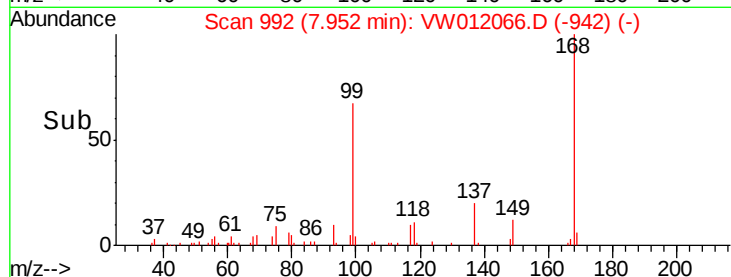
4000

2000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#3

Chloromethane

Concen: 1.038 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.01 min

Lab File: VW012066.D

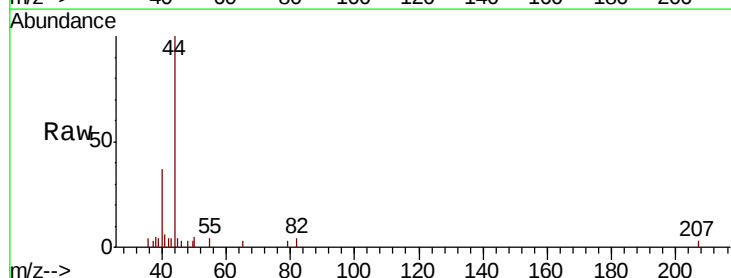
Acq: 21 Aug 2019 12:43

Tgt Ion: 50 Resp: 194

Ion Ratio Lower Upper

50 100

52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

200

150

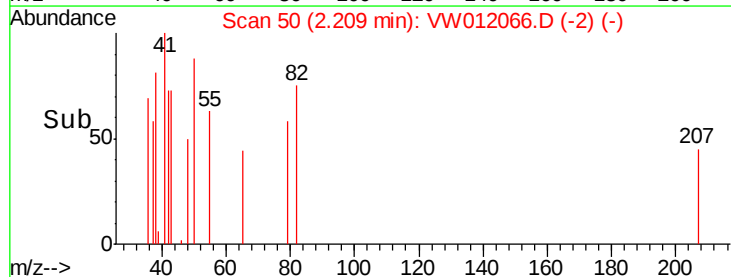
100

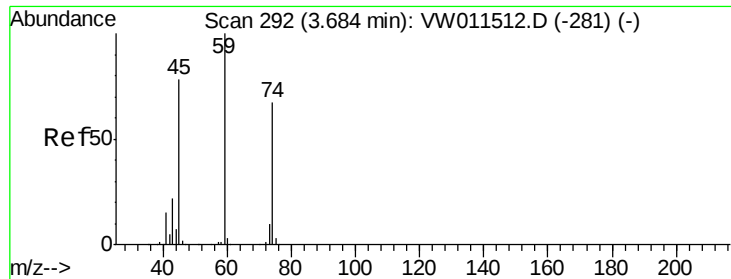
50

0

2.18 2.20 2.22 2.24

Time-->





#8

Diethyl Ether

Concen: 3.824 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

Instrument :

MSVOA_W

ClientSampled :

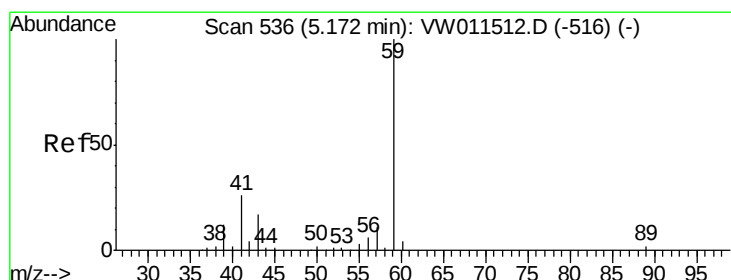
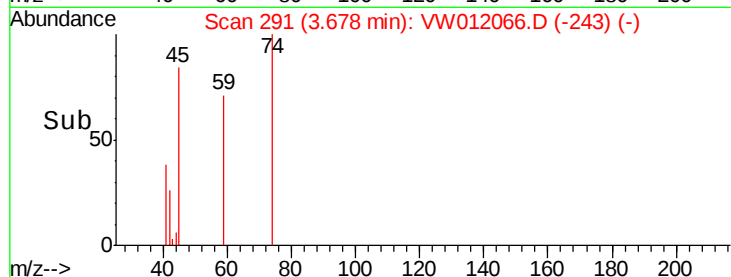
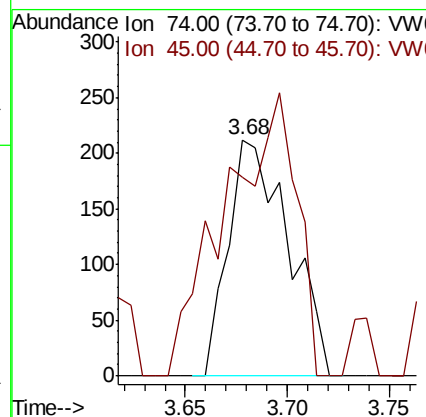
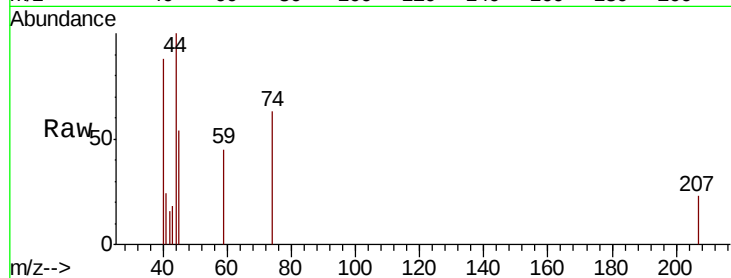
T4-B3-(0)

Tgt Ion: 74 Resp: 436

Ion Ratio Lower Upper

74 100

45 142.2 59.6 178.8



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 539

Delta R.T. 0.02 min

Lab File: VW012066.D

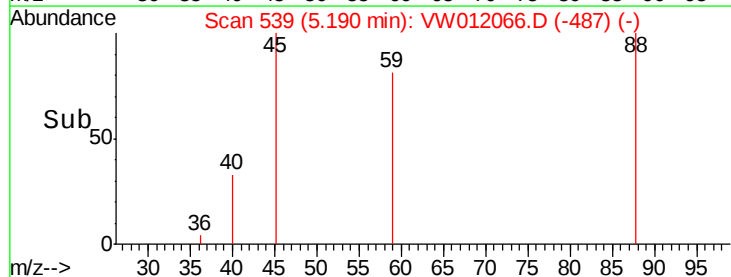
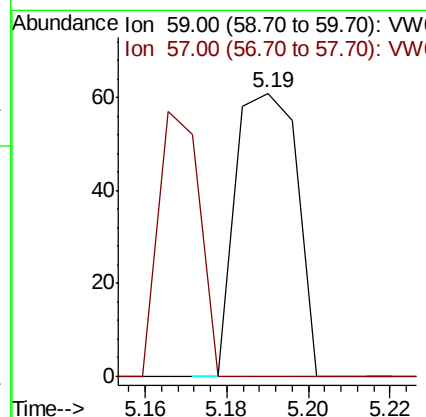
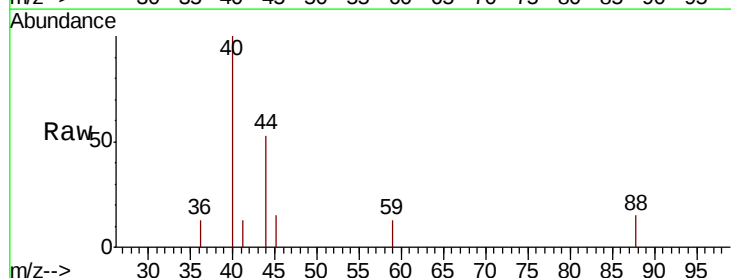
Acq: 21 Aug 2019 12:43

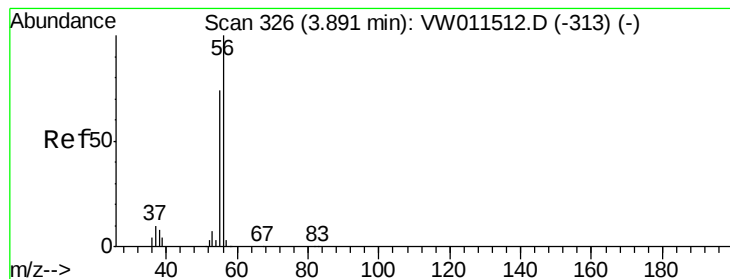
Tgt Ion: 59 Resp: 64

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: 1.255 ug/l

RT: 3.71 min Scan# 296

Delta R.T. -0.18 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

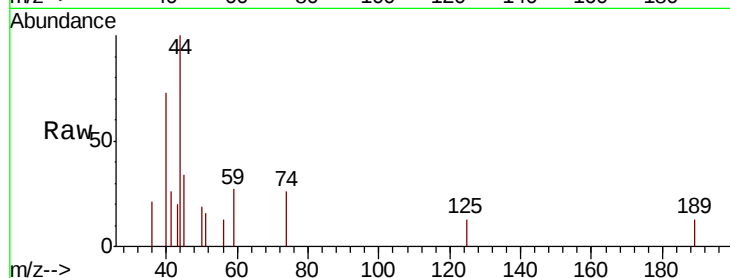
T4-B3-(0)

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

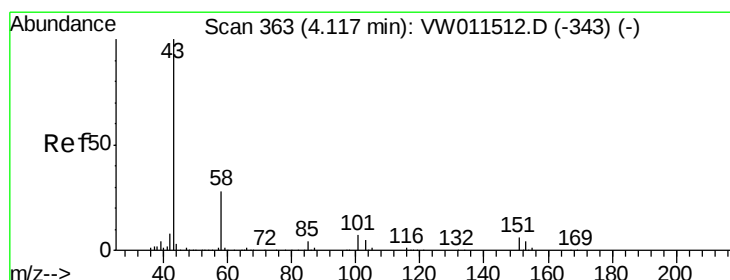
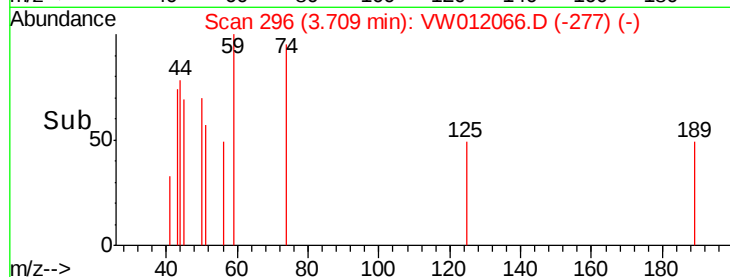
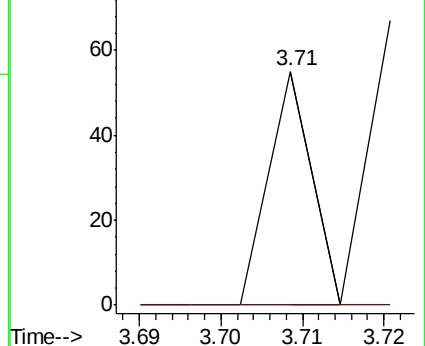
56 100

55 0.0 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#16

Acetone

Concen: 78.161 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012066.D

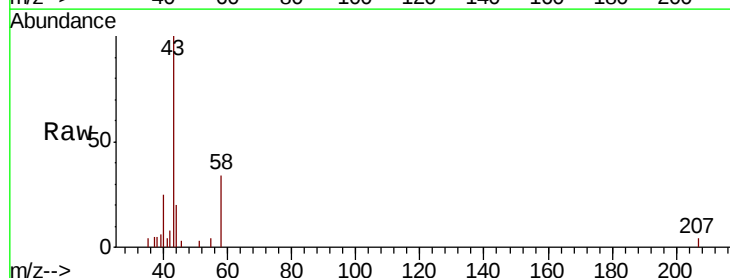
Acq: 21 Aug 2019 12:43

Tgt Ion: 43 Resp: 5522

Ion Ratio Lower Upper

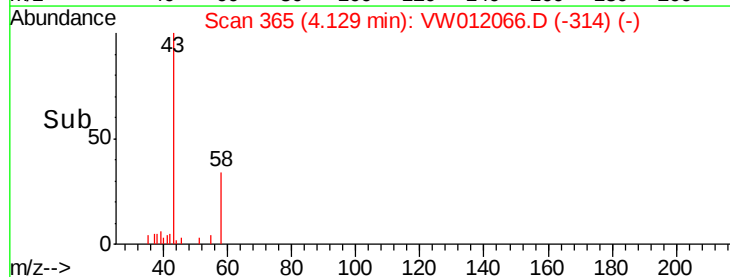
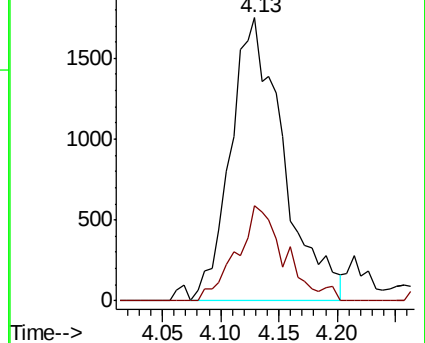
43 100

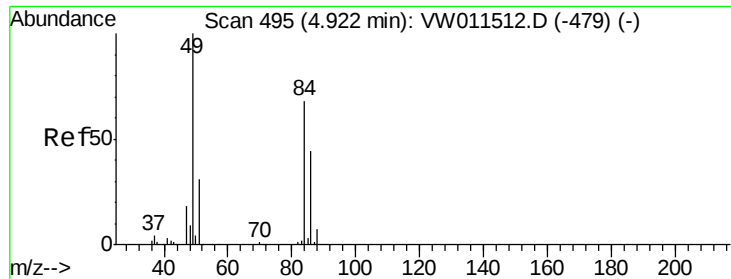
58 33.7 22.3 33.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

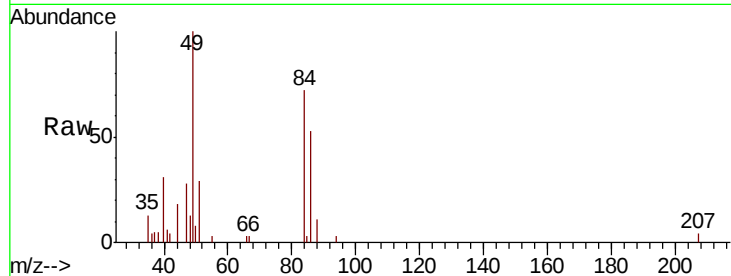




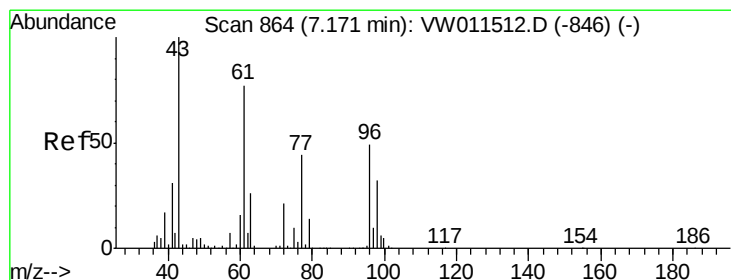
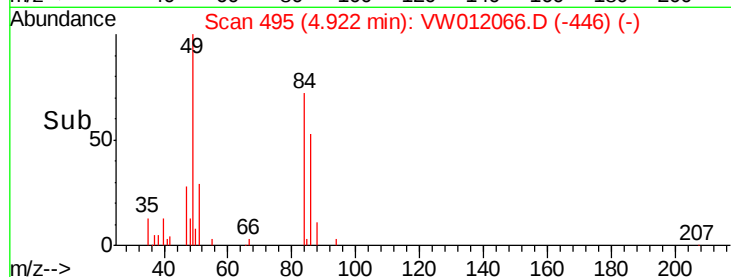
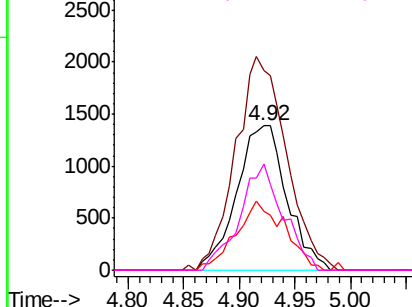
#20
Methylene Chloride
Concen: 17.869 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.00 min
Lab File: VW012066.D
Acq: 21 Aug 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
T4-B3-(0)

Tgt Ion:	84	Resp:	4354
Ion	Ratio	Lower	Upper
84	100		
49	138.5	117.8	176.6
51	40.6	37.0	55.4
86	74.0	51.8	77.8

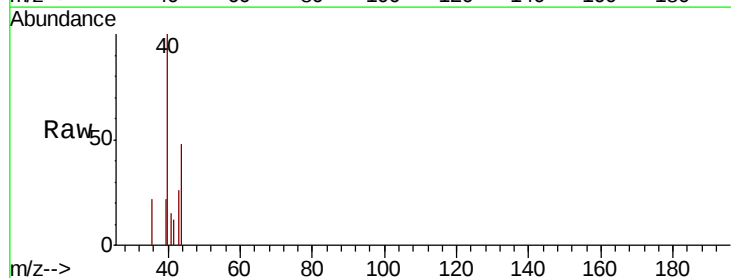


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

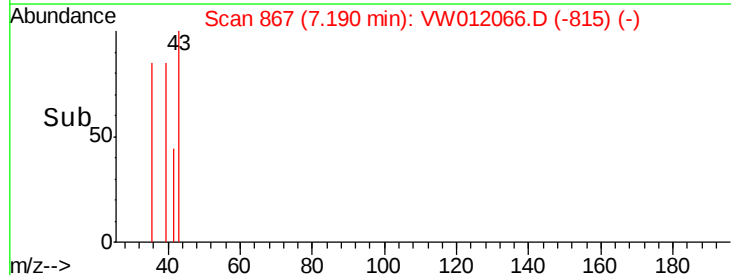
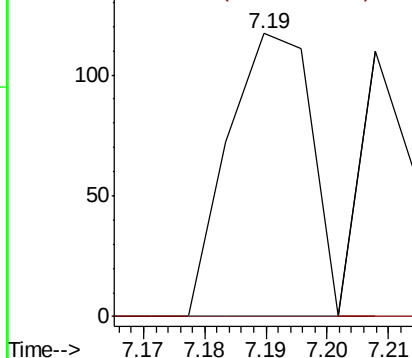


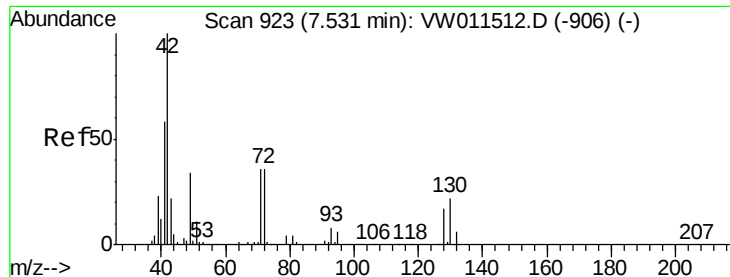
#25
2-Butanone
Concen: 1.190 ug/l
RT: 7.19 min Scan# 867
Delta R.T. 0.02 min
Lab File: VW012066.D
Acq: 21 Aug 2019 12:43

Tgt Ion:	43	Resp:	110
Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.6	24.8#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW

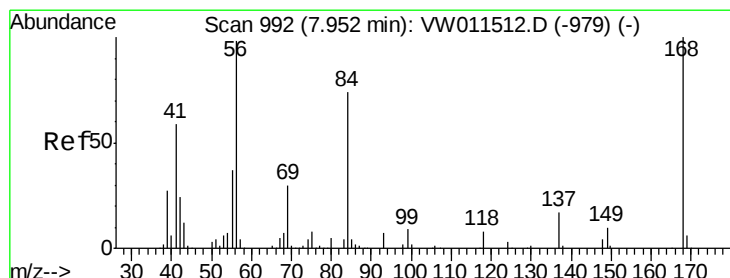
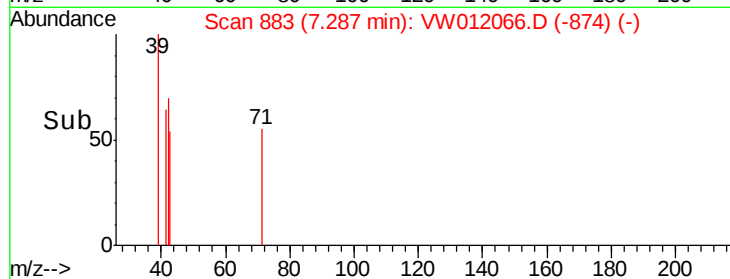
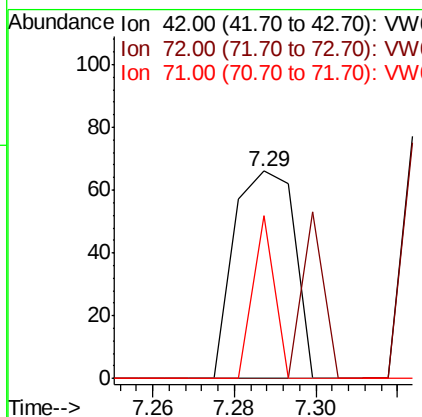
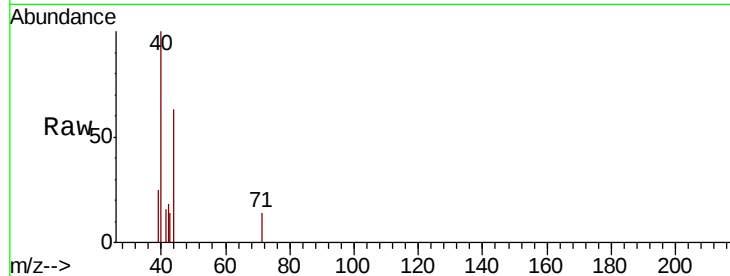




#29
Tetrahydrofuran
Concen: 1.287 ug/l
RT: 7.29 min Scan# 883
Delta R.T. -0.24 min
Lab File: VW012066.D
Acq: 21 Aug 2019 12:43

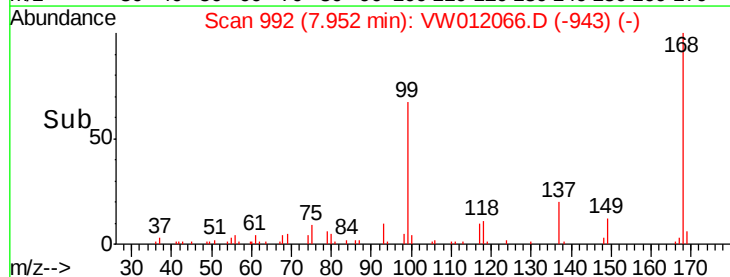
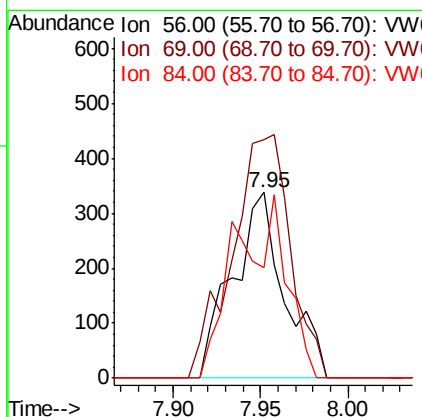
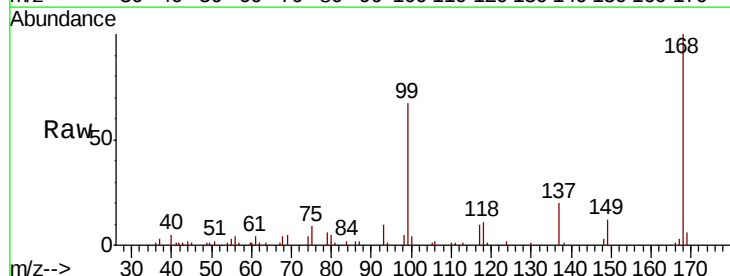
Instrument :
MSVOA_W
ClientSampled :
T4-B3-(0)

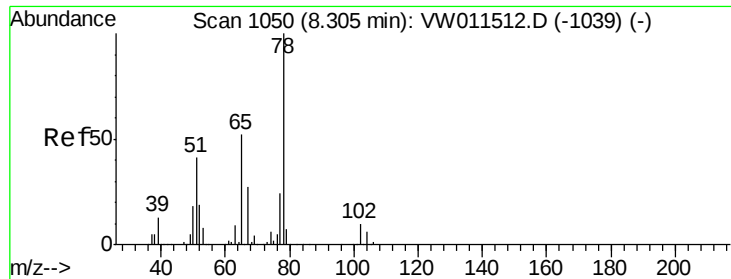
Tgt Ion: 42 Resp: 68
Ion Ratio Lower Upper
42 100
72 27.9 27.1 40.7
71 27.9 26.2 39.4



#31
Cyclohexane
Concen: 1.683 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW012066.D
Acq: 21 Aug 2019 12:43

Tgt Ion: 56 Resp: 699
Ion Ratio Lower Upper
56 100
69 128.1 24.3 36.5#
84 59.5 60.4 90.6#

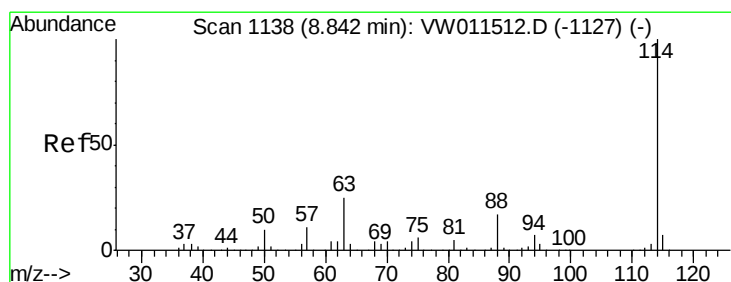
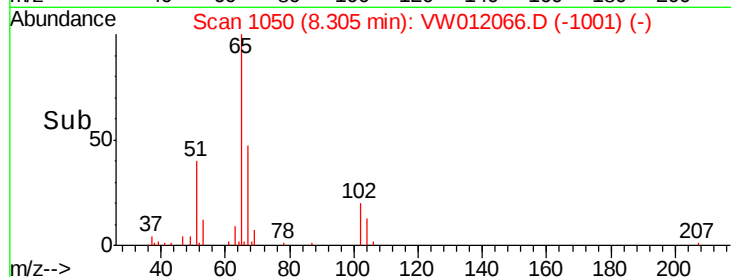
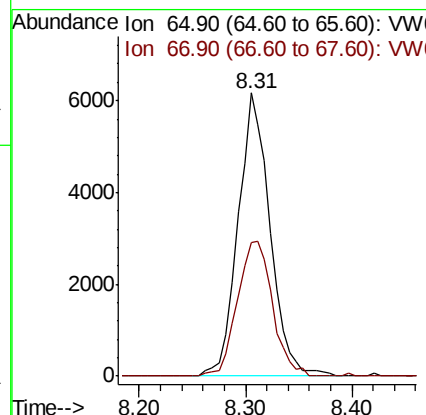
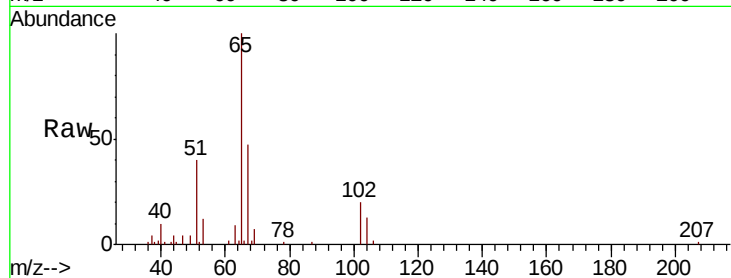




#33
 1,2-Dichloroethane-d4
 Concen: 58.402 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW012066.D
 Acq: 21 Aug 2019 12:43

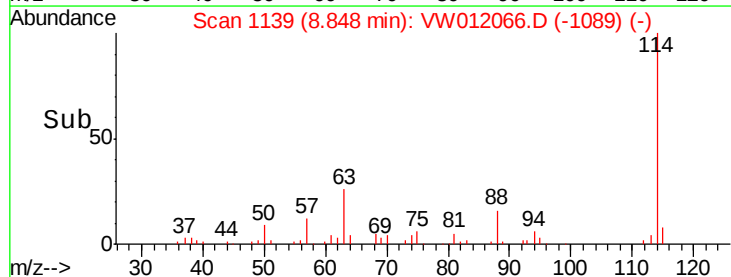
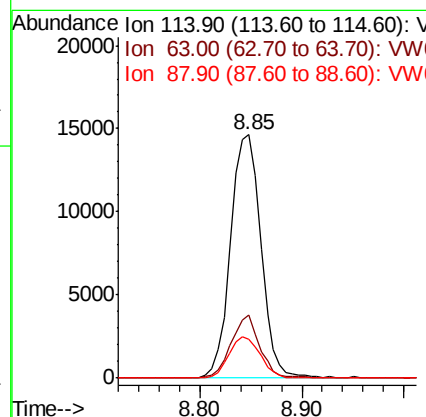
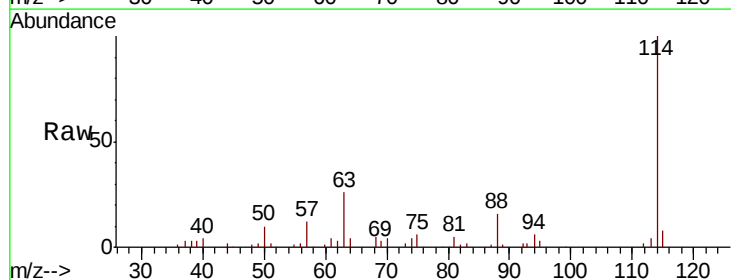
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 T4-B3-(0)

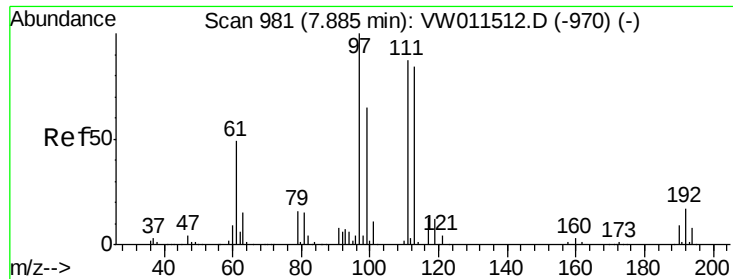
Tgt Ion: 65 Resp: 12971
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW012066.D
 Acq: 21 Aug 2019 12:43

Tgt Ion: 114 Resp: 30314
 Ion Ratio Lower Upper
 114 100
 63 25.7 0.0 49.2
 88 15.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 59.894 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

Instrument :
MSVOA_W
ClientSampleId :
T4-B3-(0)

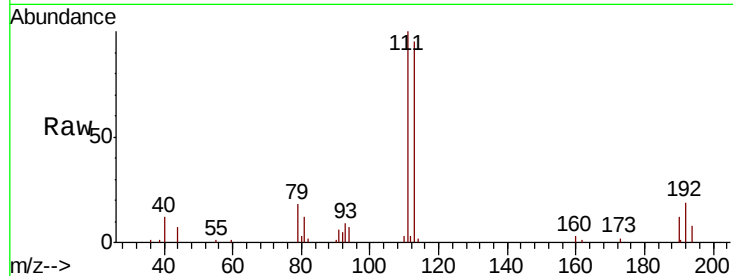
Tgt Ion:113 Resp: 10186

Ion Ratio Lower Upper

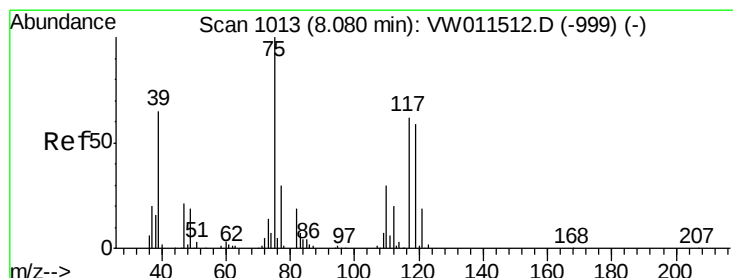
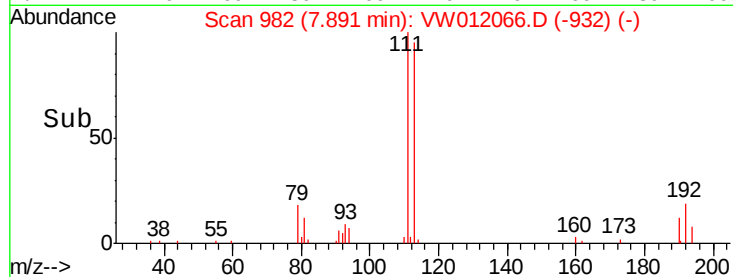
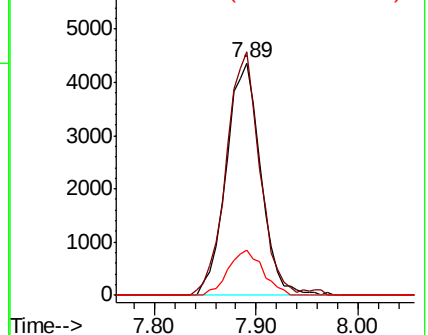
113 100

111 102.5 82.7 124.1

192 19.6 16.1 24.1



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: 6.006 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

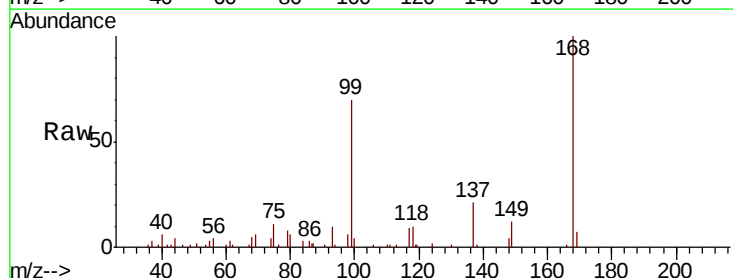
Tgt Ion: 75 Resp: 1893

Ion Ratio Lower Upper

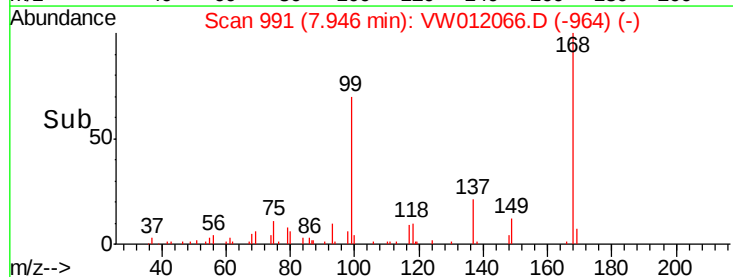
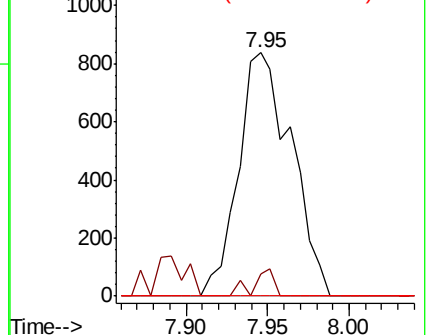
75 100

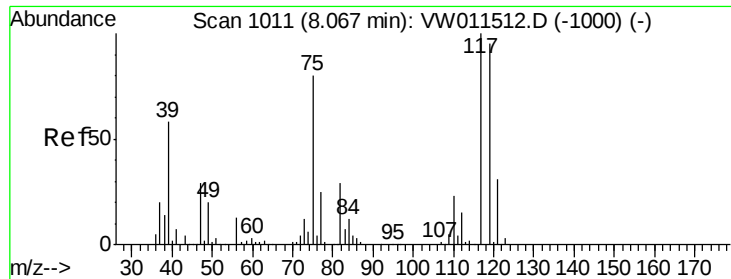
110 4.3 15.6 46.8#

77 0.0 24.3 36.5#



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: 6.930 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

T4-B3-(0)

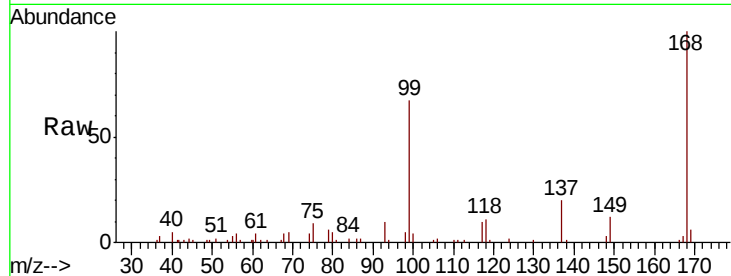
Tgt Ion:117 Resp: 1870

Ion Ratio Lower Upper

117 100

119 10.8 75.8 113.6#

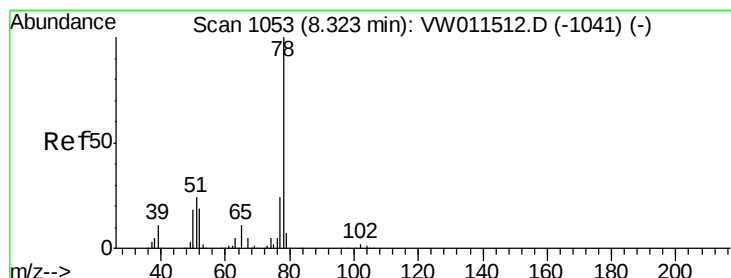
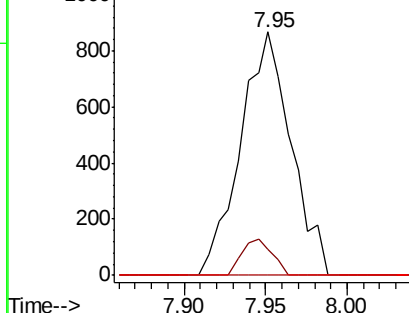
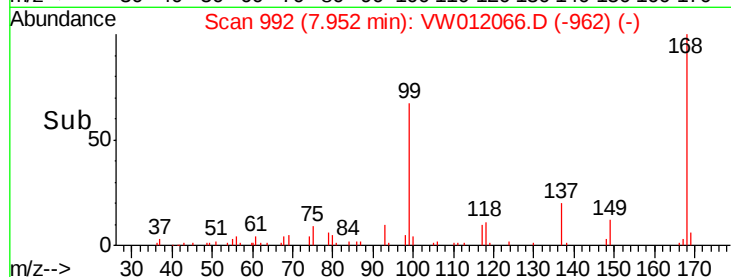
121 0.0 24.7 37.1#



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



#40

Benzene

Concen: 2.606 ug/l

RT: 8.41 min Scan# 1068

Delta R.T. 0.09 min

Lab File: VW012066.D

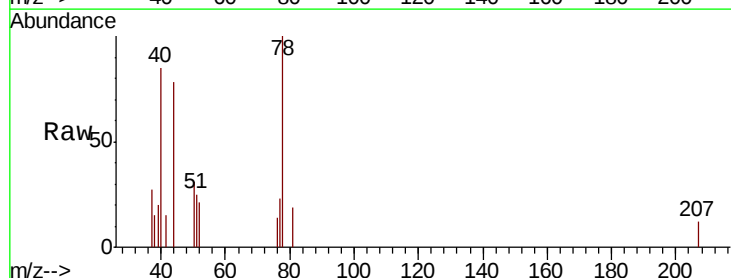
Acq: 21 Aug 2019 12:43

Tgt Ion: 78 Resp: 2301

Ion Ratio Lower Upper

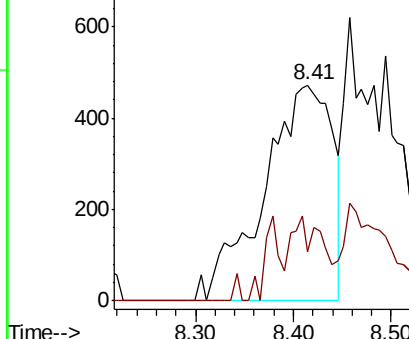
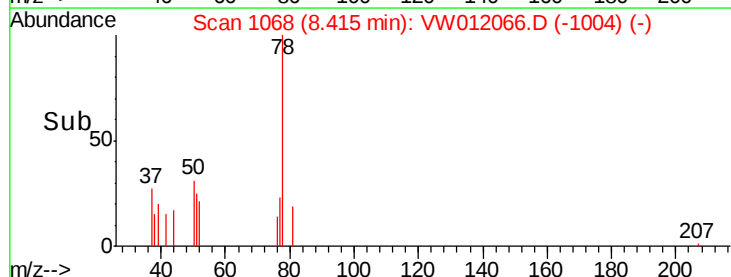
78 100

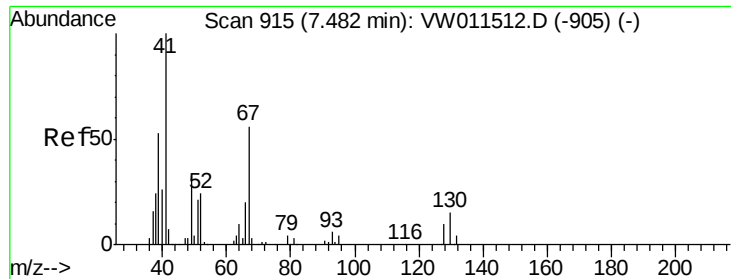
77 22.9 19.4 29.0



Abundance Ion 78.00 (77.70 to 78.70): VW

Ion 77.00 (76.70 to 77.70): VW

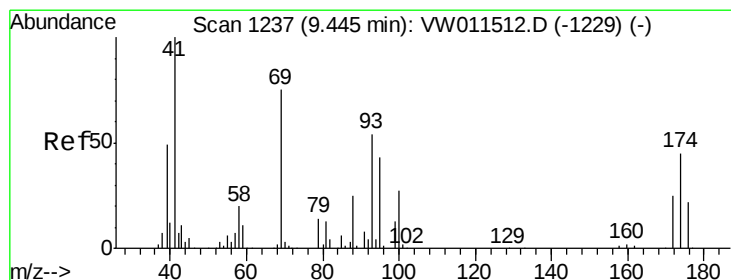
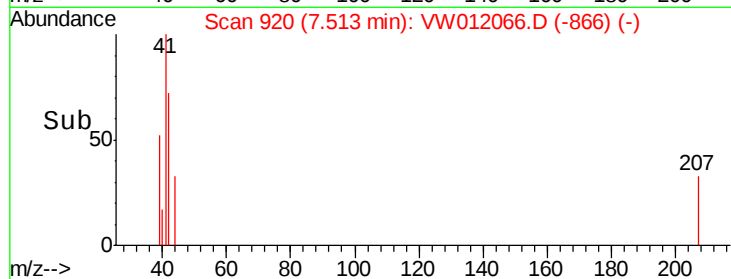
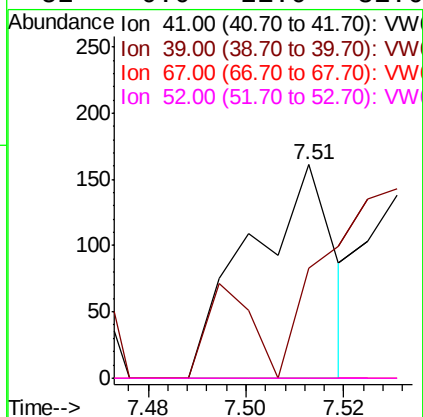
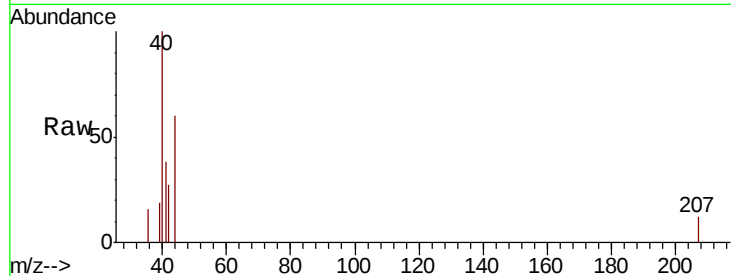




#41
Methacrylonitrile
Concen: 1.771 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.03 min
Lab File: VW012066.D
Acq: 21 Aug 2019 12:43

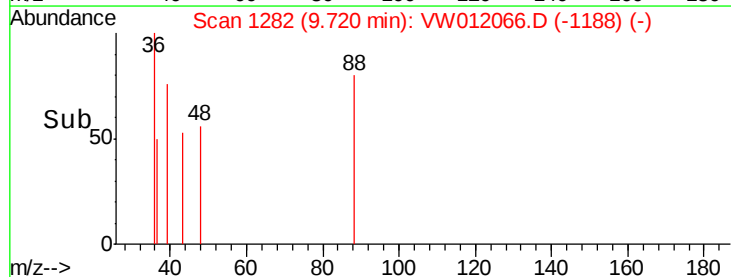
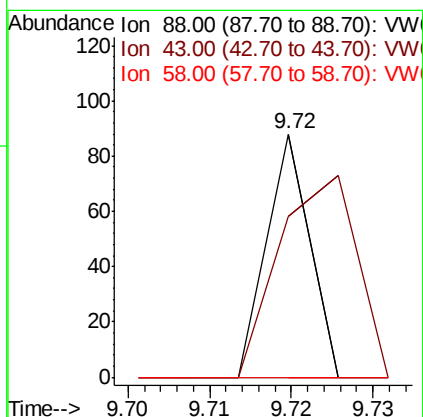
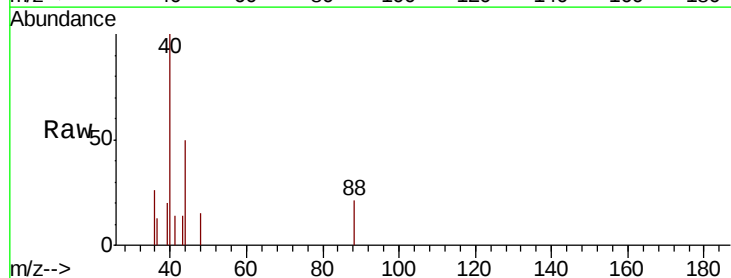
Instrument :
MSVOA_W
ClientSampleId :
T4-B3-(0)

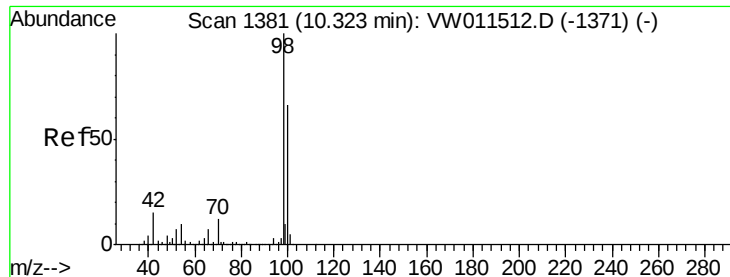
Tgt Ion:	41	Resp:	192
Ion	Ratio	Lower	Upper
41	100		
39	23.4	43.0	64.4#
67	0.0	47.5	71.3#
52	0.0	21.0	31.6#



#49
1,4-Dioxane
Concen: 20.497 ug/l
RT: 9.72 min Scan# 1282
Delta R.T. 0.27 min
Lab File: VW012066.D
Acq: 21 Aug 2019 12:43

Tgt Ion:	88	Resp:	32
Ion	Ratio	Lower	Upper
88	100		
43	0.0	34.0	51.0#
58	0.0	69.7	104.5#





#50

Toluene-d8

Concen: 51.298 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

Instrument :

MSVOA_W

ClientSampled :

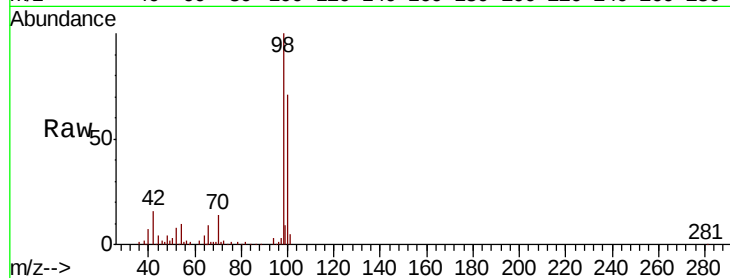
T4-B3-(0)

Tgt Ion: 98 Resp: 35719

Ion Ratio Lower Upper

98 100

100 67.5 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

20000

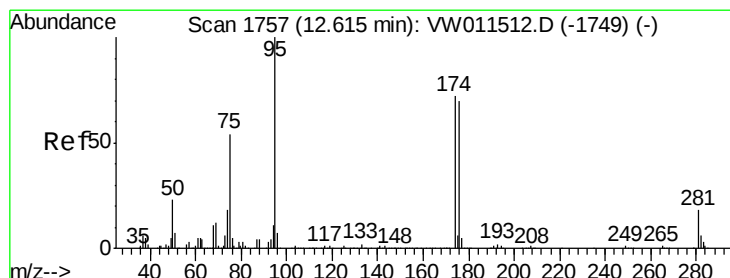
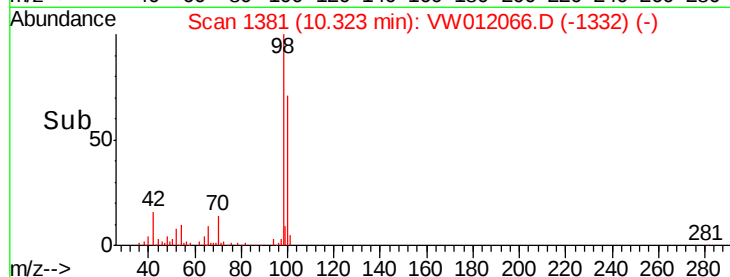
15000

10000

5000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 38.571 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

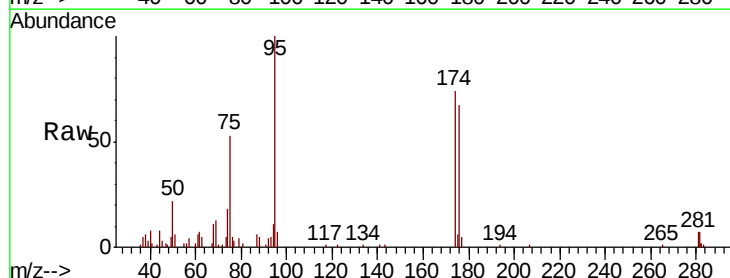
Tgt Ion: 95 Resp: 9575

Ion Ratio Lower Upper

95 100

174 75.4 0.0 150.2

176 73.0 0.0 144.4



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

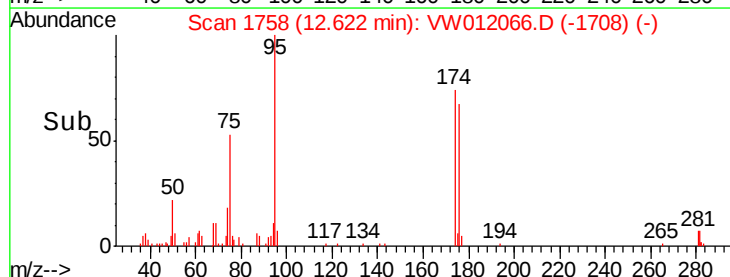
6000

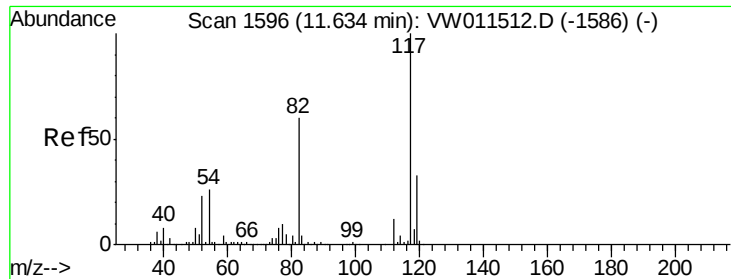
4000

2000

0

Time-->

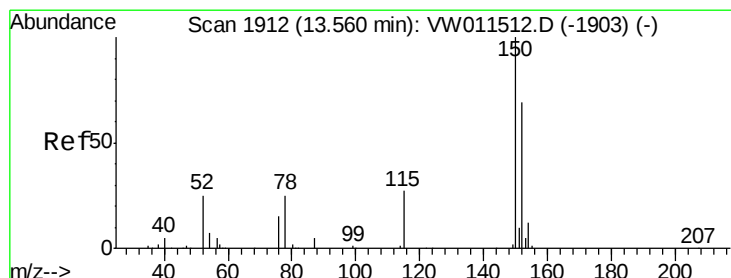
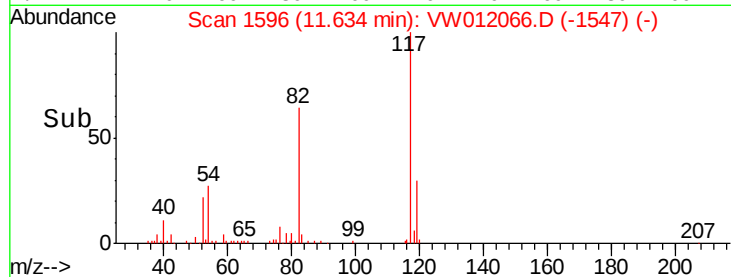
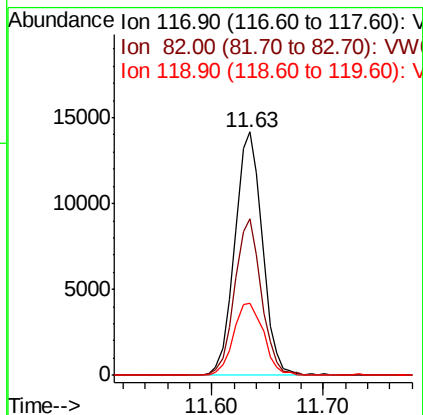
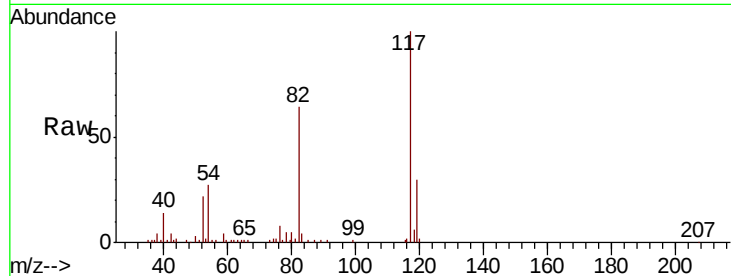




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW012066.D
Acq: 21 Aug 2019 12:43

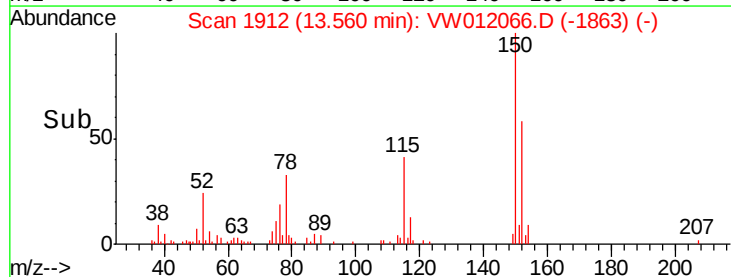
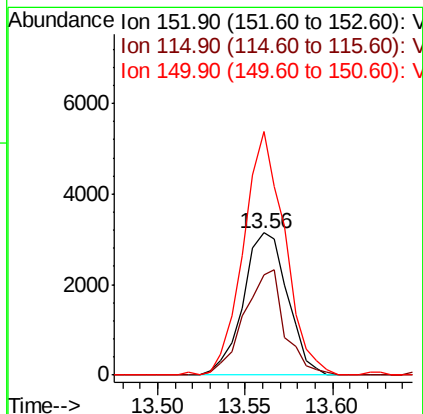
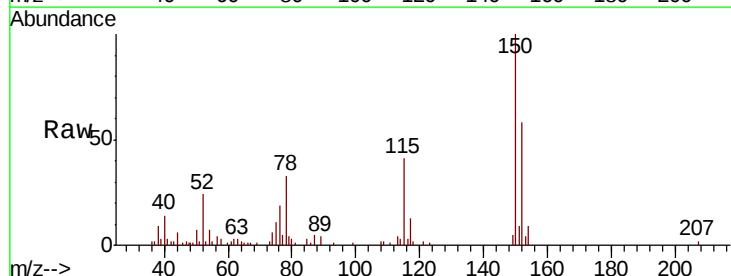
Instrument :
MSVOA_W
ClientSampleId :
T4-B3-(0)

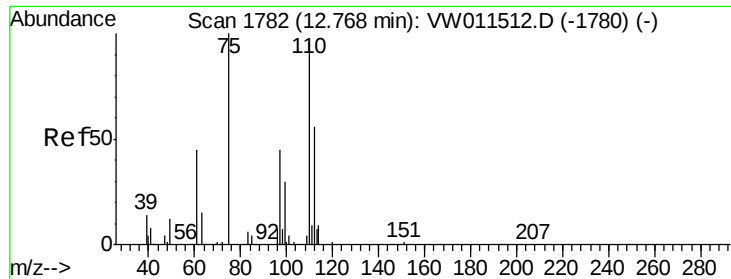
Tgt Ion:117 Resp: 24210
Ion Ratio Lower Upper
117 100
82 64.1 47.9 71.9
119 29.7 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW012066.D
Acq: 21 Aug 2019 12:43

Tgt Ion:152 Resp: 5559
Ion Ratio Lower Upper
152 100
115 67.4 30.5 91.5
150 158.8 0.0 352.6





#76

1,2,3-Trichloropropane

Concen: 88.812 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

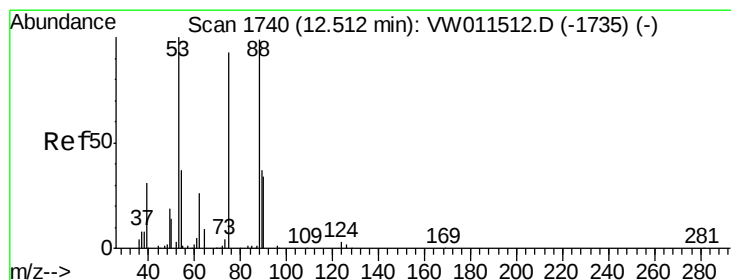
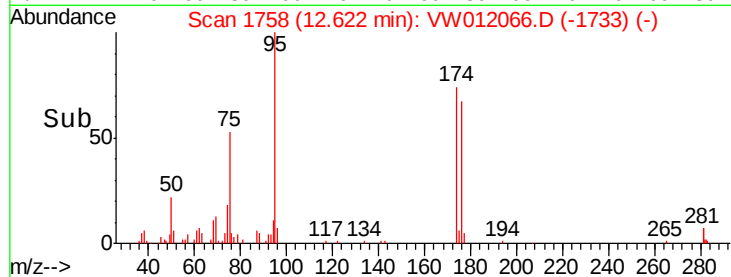
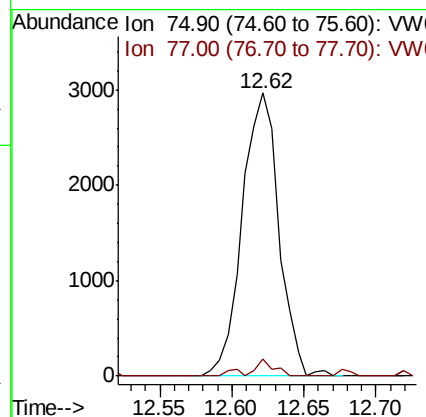
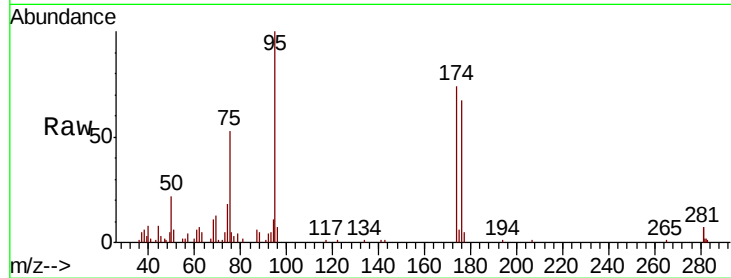
T4-B3-(0)

Tgt Ion: 75 Resp: 5224

Ion Ratio Lower Upper

75 100

77 3.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 204.682 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

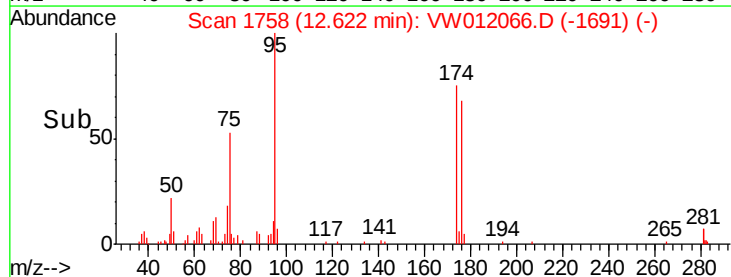
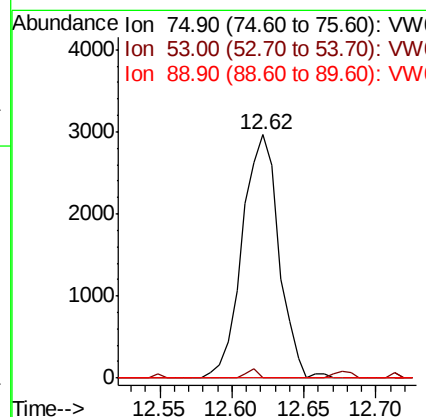
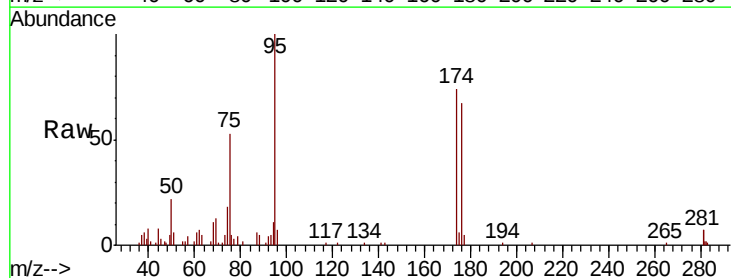
Tgt Ion: 75 Resp: 5224

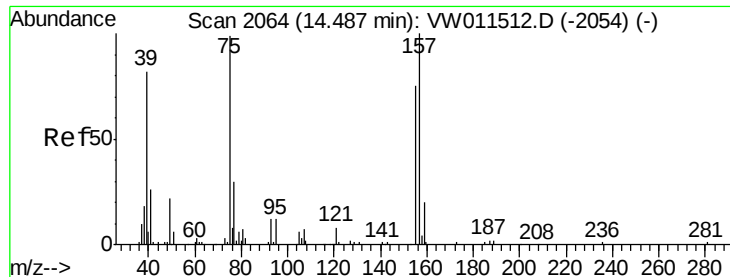
Ion Ratio Lower Upper

75 100

53 1.1 88.0 132.0#

89 0.0 35.3 52.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.428 ug/l

RT: 14.37 min Scan# 2044

Delta R.T. -0.12 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

Instrument :

MSVOA_W

ClientSampleId :

T4-B3-(0)

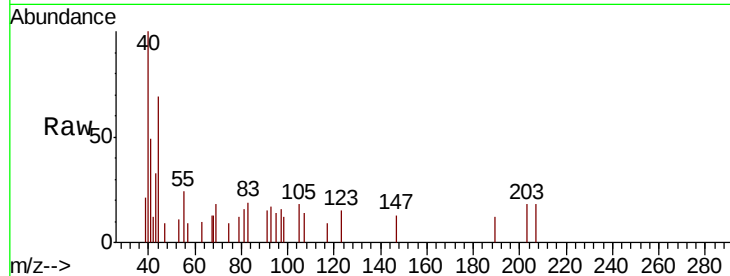
Tgt Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

155 0.0 38.2 114.6#

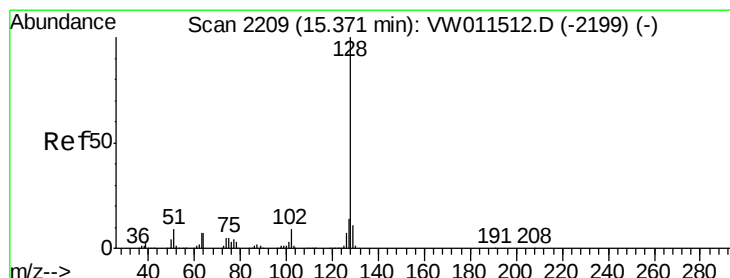
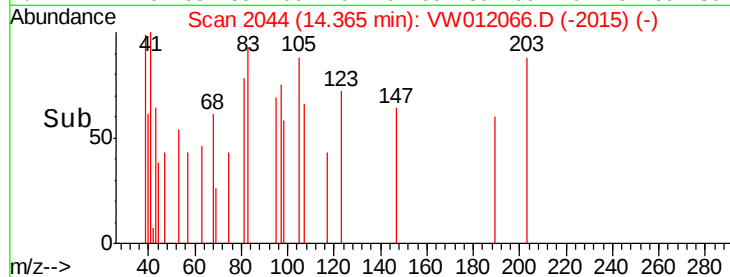
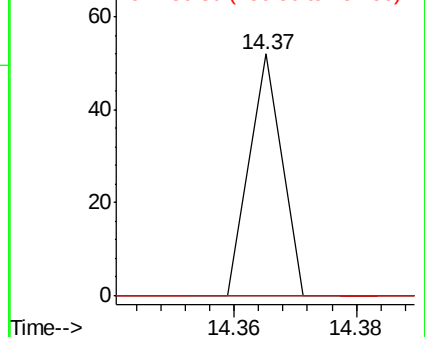
157 0.0 48.9 146.7#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 2.468 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW012066.D

Acq: 21 Aug 2019 12:43

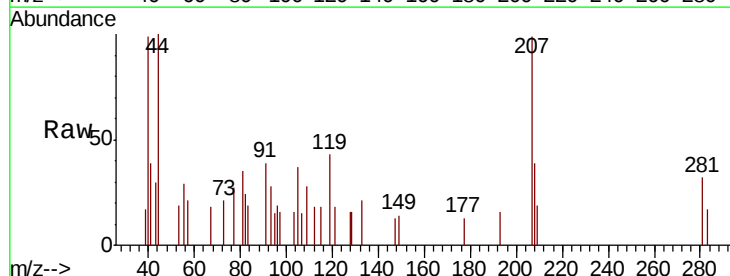
Tgt Ion: 128 Resp: 92

Ion Ratio Lower Upper

128 100

127 46.7 10.6 16.0#

129 0.0 8.6 13.0#



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

