

Data File : VW013980.D
Acq On : 12 Nov 2019 17:22
Operator : SY/VA
Sample : K5722-17RE
Misc : 8.76G/5.0ML/MSVOA_W/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
3-ARE

Quant Time: Nov 13 06:44:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 23 14:11:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	21507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	32487	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	26353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	6255	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	11043	68.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	136.90%	
35) Dibromofluoromethane	7.88	113	10715	59.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.72%	
50) Toluene-d8	10.32	98	38079	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
62) 4-Bromofluorobenzene	12.62	95	10335	41.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.00%	

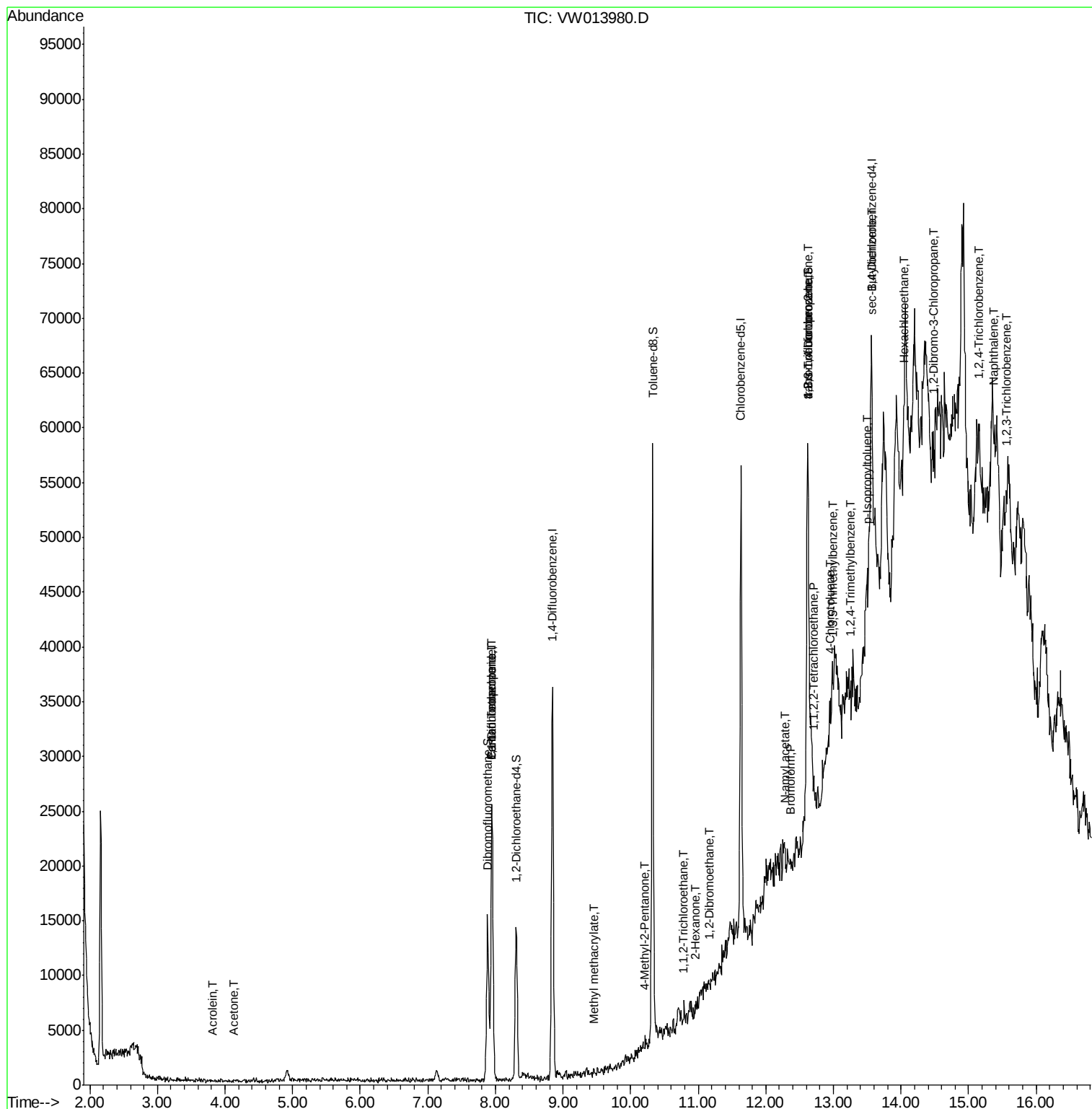
Target Compounds					Qvalue	
13) Acrolein	3.82	56	26	2.356	ug/l #	15
16) Acetone	4.14	43	317	9.267	ug/l #	45
20) Methylene Chloride	4.92	84	526	Below Cal	#	61
36) 1,1-Dichloropropene	7.95	75	1442	4.766	ug/l #	40
38) Carbon Tetrachloride	7.95	117	1945	7.139	ug/l #	11
48) Methyl methacrylate	9.45	41	122	1.110	ug/l #	50
51) 4-Methyl-2-Pentanone	10.21	43	229	2.079	ug/l #	35
55) 1,1,2-Trichloroethane	10.77	97	190	1.284	ug/l #	22
59) 2-Hexanone	10.94	43	151	1.988	ug/l #	23
61) 1,2-Dibromoethane	11.16	107	142	1.015	ug/l	86
71) Bromoform	12.37	173	181	1.825	ug/l #	1
74) N-amyl acetate	12.29	43	349	4.016	ug/l #	31
75) 1,1,2,2-Tetrachloroethane	12.71	83	1192	16.816	ug/l #	45
76) 1,2,3-Trichloropropane	12.62	75	4170	92.832	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.99	105	396	1.044	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.62	75	4170	175.440	ug/l #	23
82) 4-Chlorotoluene	12.95	91	472	1.539	ug/l	75
84) 1,2,4-Trimethylbenzene	13.26	105	407	1.088	ug/l	93
85) sec-Butylbenzene	13.57	105	509	1.106	ug/l	80
86) p-Isopropyltoluene	13.50	119	545	1.271	ug/l	92
90) Hexachloroethane	14.04	117	116	1.557	ug/l	62
92) 1,2-Dibromo-3-Chloropropan	14.49	75	25	2.332	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.14	180	423	3.224	ug/l #	12
95) Naphthalene	15.37	128	432	2.100	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.56	180	180	1.592	ug/l #	36

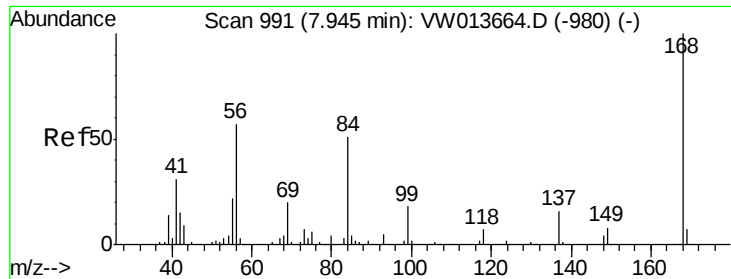
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013980.D

Acq: 12 Nov 2019 17:22

Instrument :

MSVOA_W

ClientSampled :

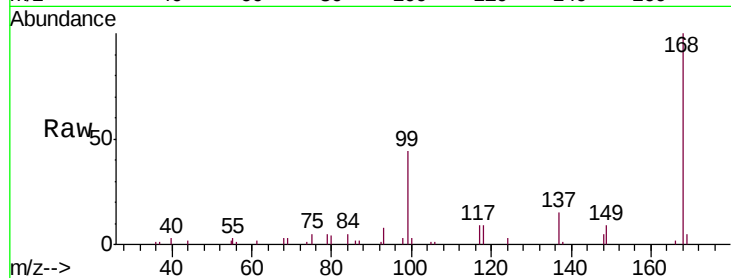
3-ARE

Tgt Ion:168 Resp: 21507

Ion Ratio Lower Upper

168 100

99 44.4 39.0 58.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

10000

8000

6000

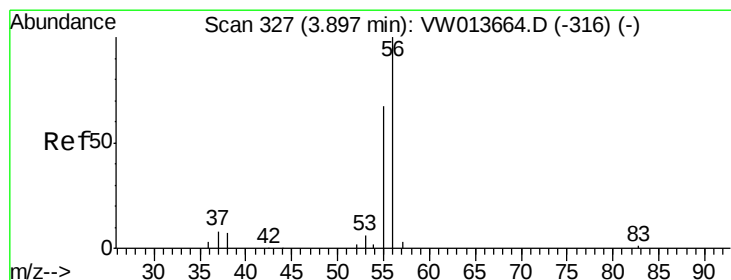
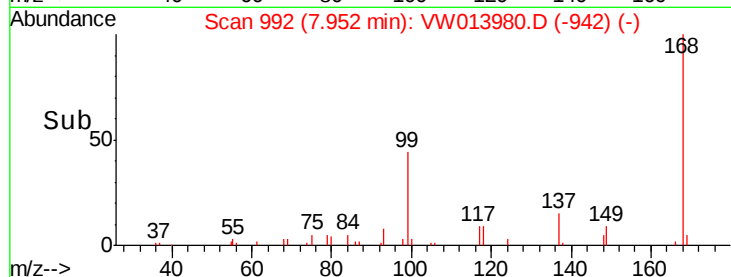
4000

2000

0

Time-->

7.90 8.00



#13

Acrolein

Concen: 2.356 ug/l

RT: 3.82 min Scan# 315

Delta R.T. -0.07 min

Lab File: VW013980.D

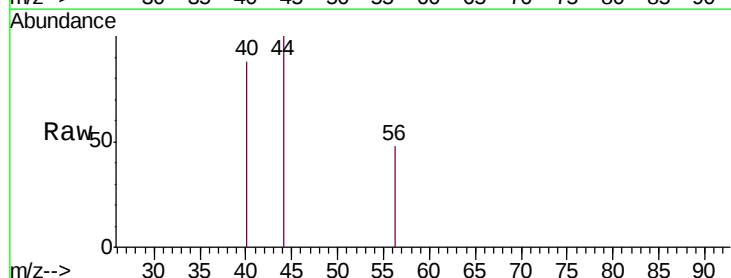
Acq: 12 Nov 2019 17:22

Tgt Ion: 56 Resp: 26

Ion Ratio Lower Upper

56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.82

80

60

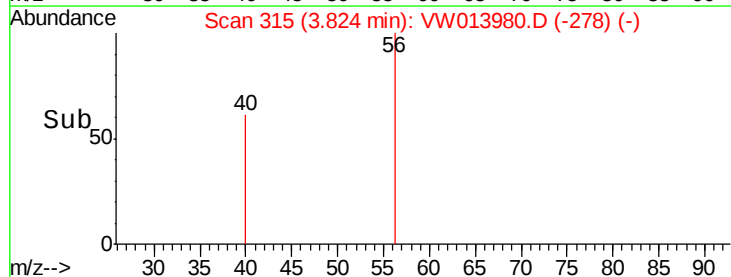
40

20

0

Time-->

3.80 3.81 3.82 3.83 3.84





#16

Acetone

Concen: 9.267 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.01 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

Instrument :

MSVOA_W

ClientSampleId :

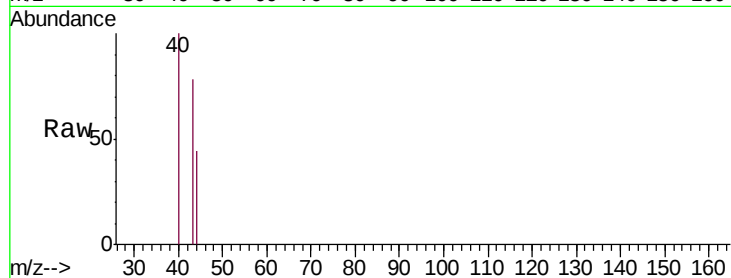
3-ARE

Tgt Ion: 43 Resp: 317

Ion Ratio Lower Upper

43 100

58 0.0 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

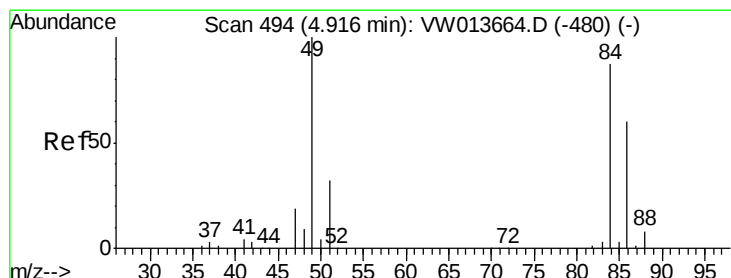
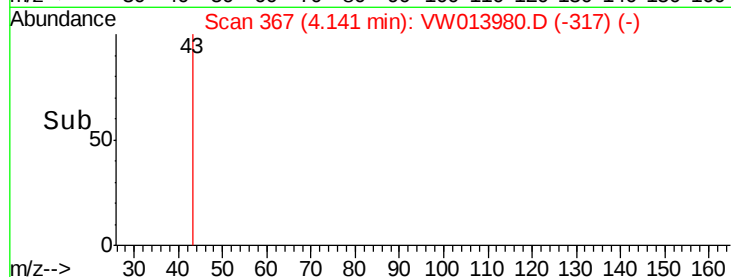
150

100

50

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

Tgt Ion: 84 Resp: 526

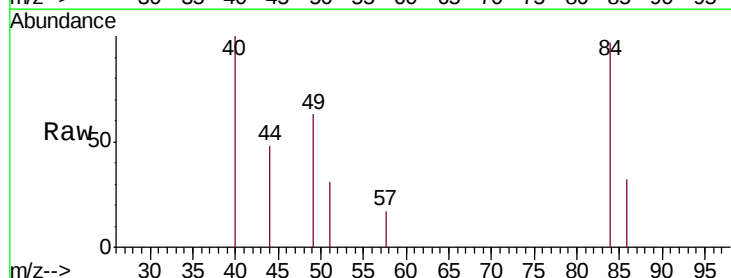
Ion Ratio Lower Upper

84 100

49 64.7 91.8 137.6#

51 32.2 29.8 44.6

86 32.5 55.2 82.8#



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

500

400

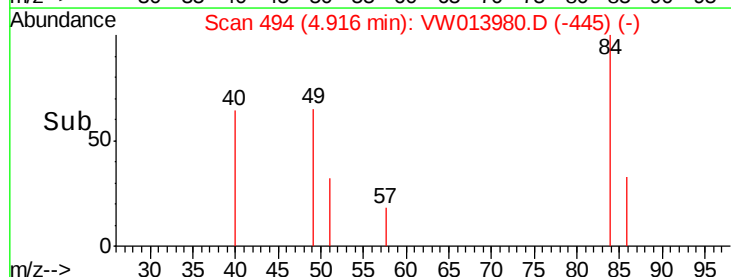
300

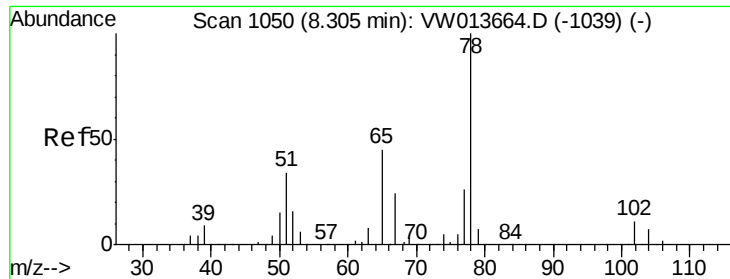
200

100

0

Time-->

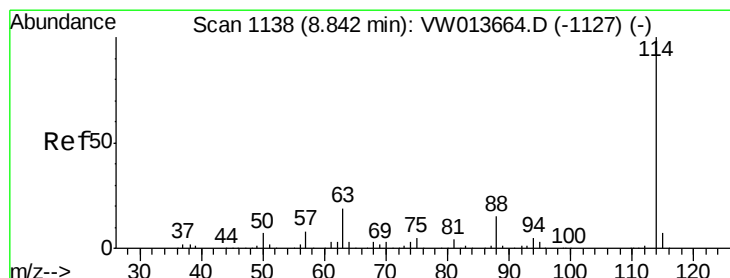
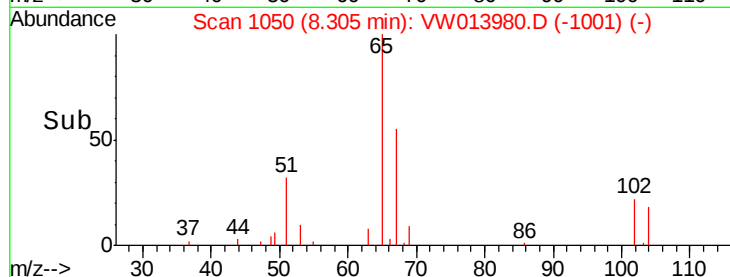
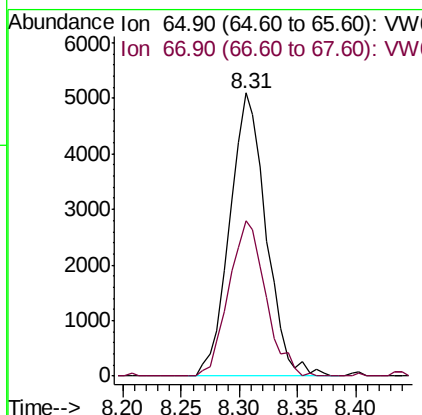
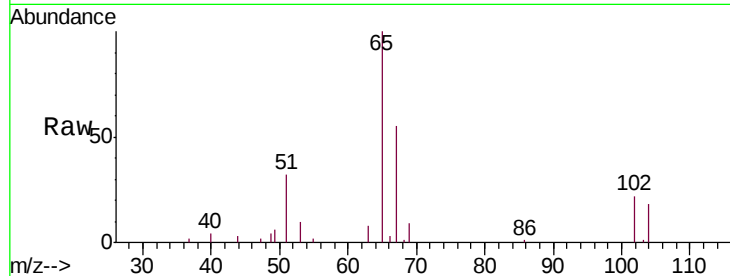




#33
 1,2-Dichloroethane-d4
 Concen: 68.447 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

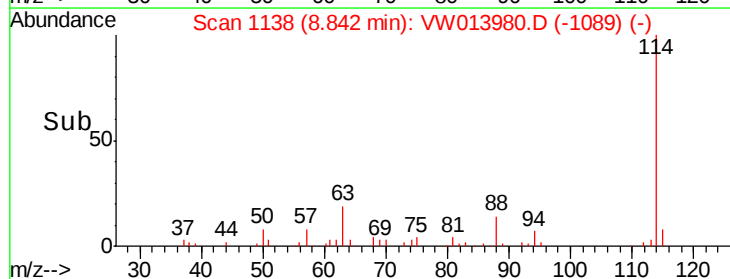
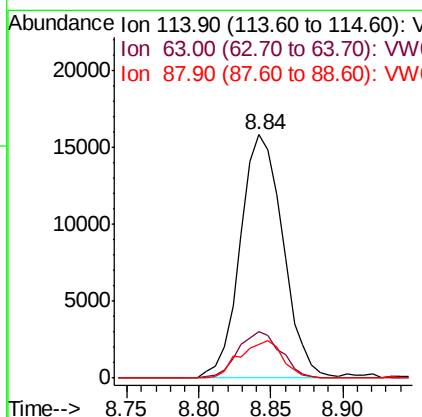
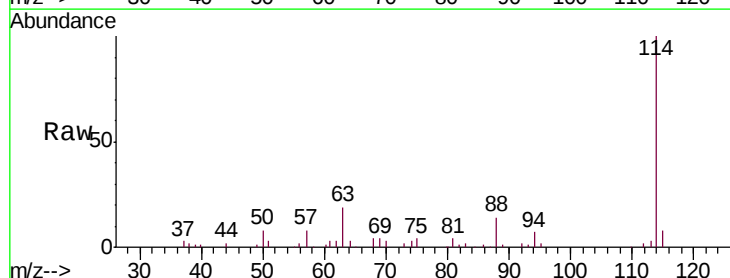
Instrument :
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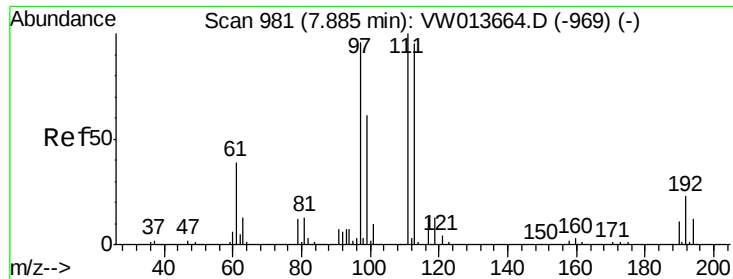
Tgt Ion: 65 Resp: 11043
 Ion Ratio Lower Upper
 65 100
 67 55.6 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

Tgt Ion: 114 Resp: 32487
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 37.6
 88 13.9 0.0 30.2

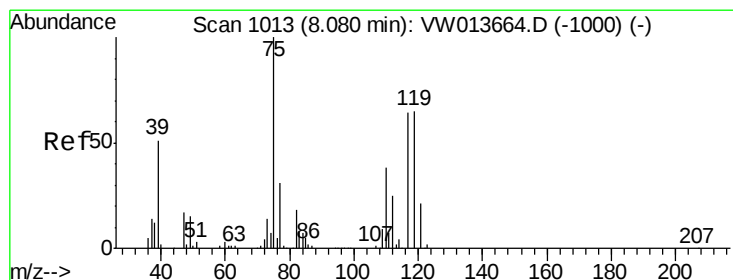
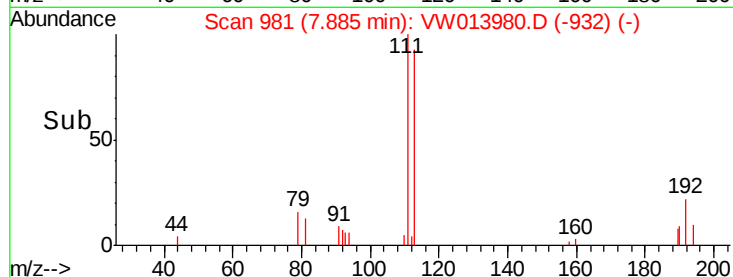
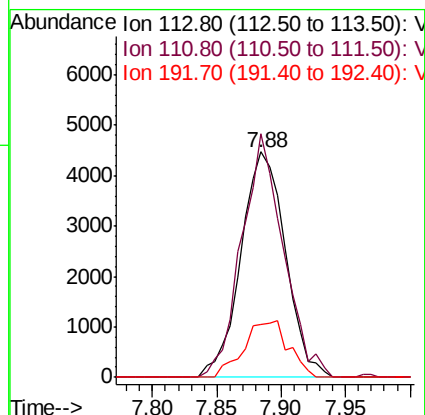
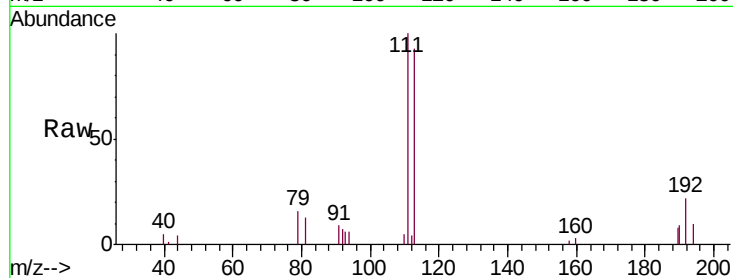




#35
 Dibromofluoromethane
 Concen: 59.358 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

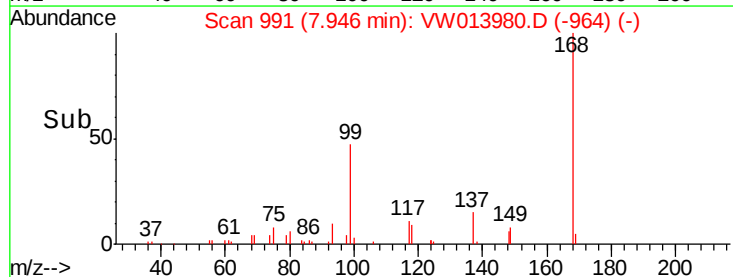
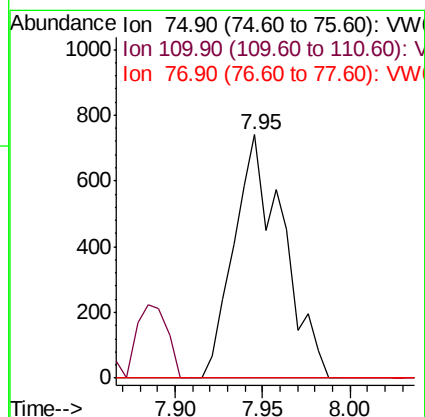
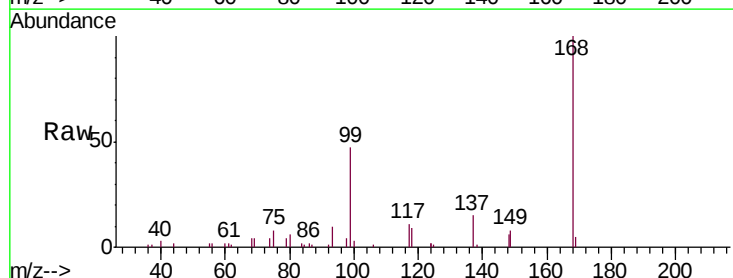
Instrument :
 MSVOA_W
 ClientSampleId :
 3-ARE

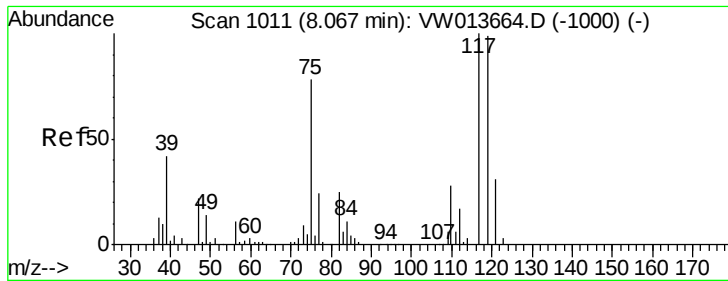
Tgt Ion:113 Resp: 10715
 Ion Ratio Lower Upper
 113 100
 111 100.9 83.0 124.6
 192 25.0 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.766 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

Tgt Ion: 75 Resp: 1442
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.7 56.1#
 77 0.0 25.4 38.0#

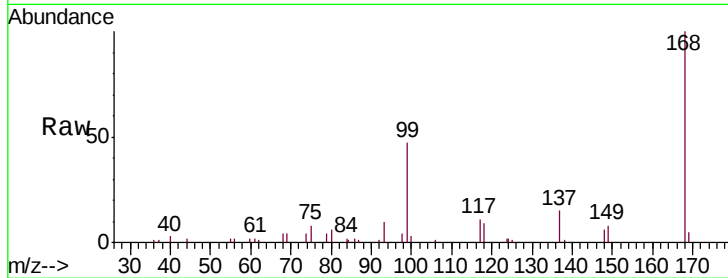




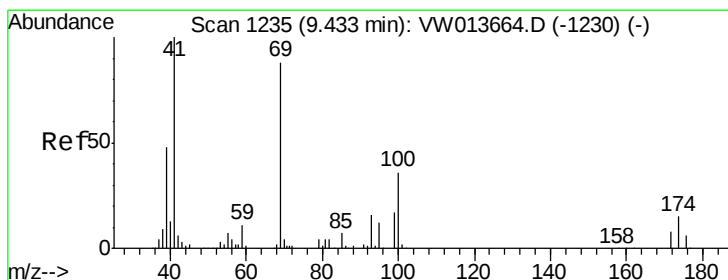
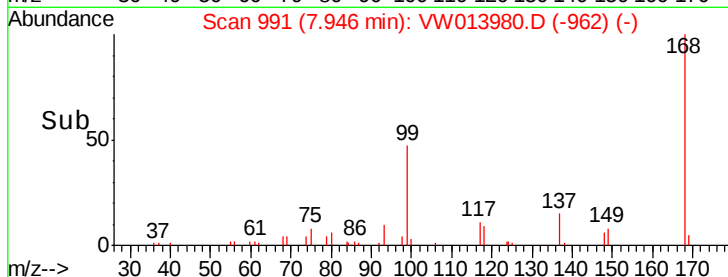
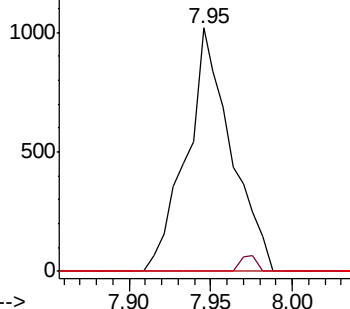
#38
Carbon Tetrachloride
Concen: 7.139 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW013980.D
Acq: 12 Nov 2019 17:22

Instrument :
MSVOA_W
ClientSampled :
3-ARE

Tgt Ion:117 Resp: 1945
Ion Ratio Lower Upper
117 100
119 0.0 79.0 118.4#
121 0.0 24.5 36.7#

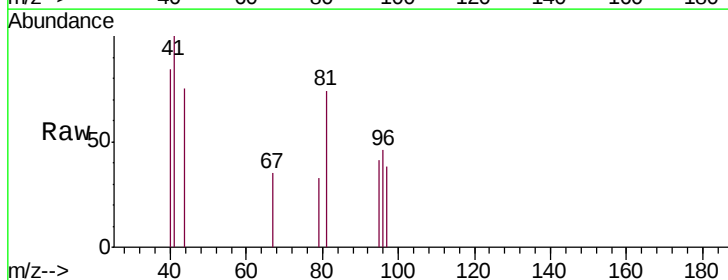


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

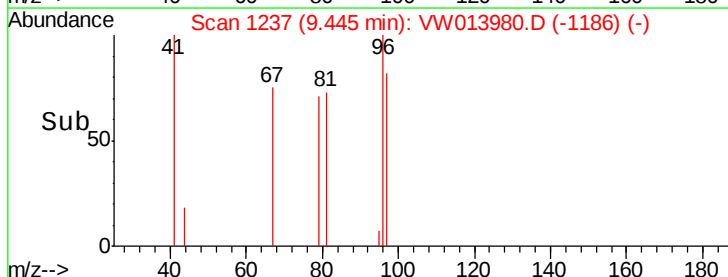
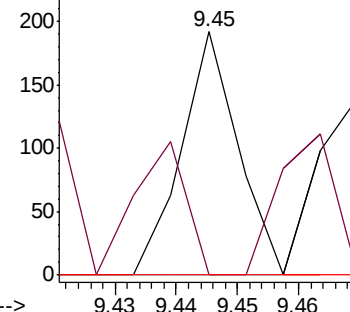


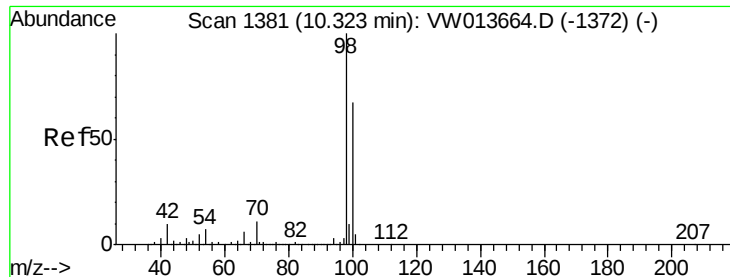
#48
Methyl methacrylate
Concen: 1.110 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.01 min
Lab File: VW013980.D
Acq: 12 Nov 2019 17:22

Tgt Ion: 41 Resp: 122
Ion Ratio Lower Upper
41 100
69 50.0 67.6 101.4#
39 0.0 38.6 58.0#



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW





#50

Toluene-d8

Concen: 51.769 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

Instrument :

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ClientSampleId :

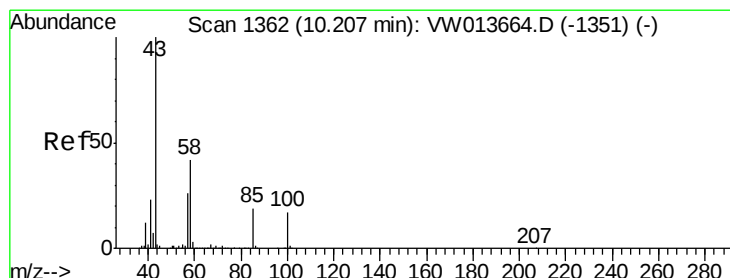
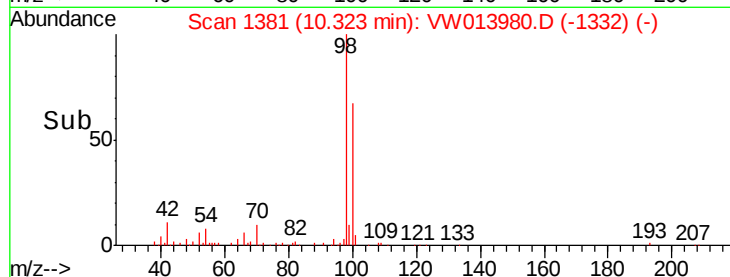
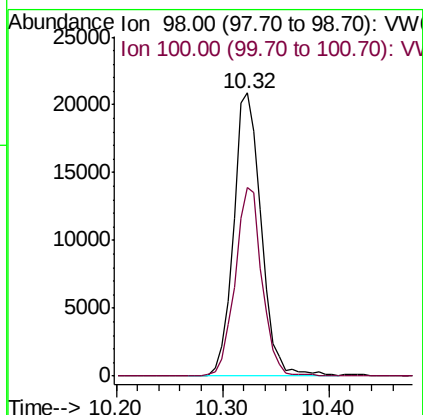
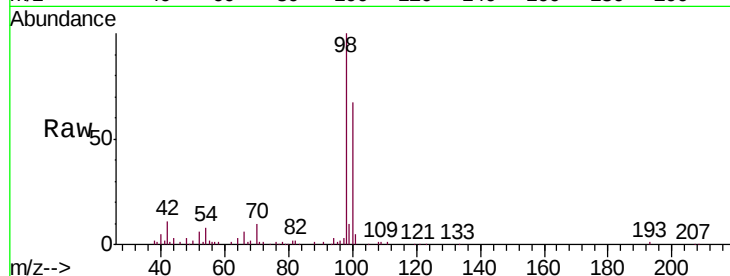
3-ARE

Tgt Ion: 98 Resp: 38079

Ion Ratio Lower Upper

98 100

100 64.6 53.4 80.0



#51

4-Methyl-2-Pentanone

Concen: 2.079 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW013980.D

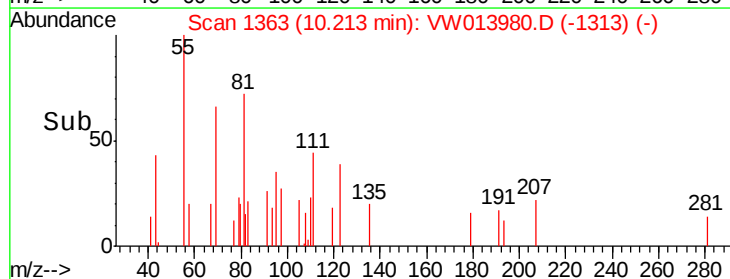
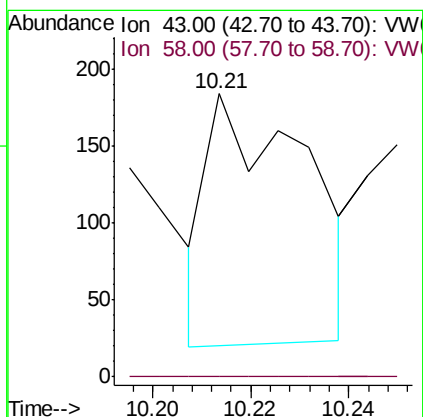
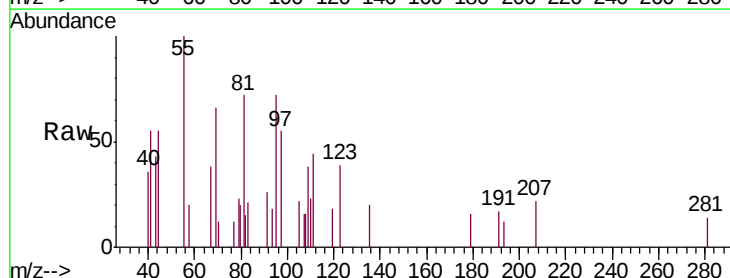
Acq: 12 Nov 2019 17:22

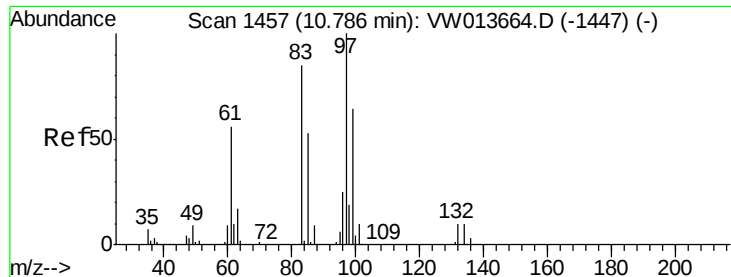
Tgt Ion: 43 Resp: 229

Ion Ratio Lower Upper

43 100

58 0.0 32.6 49.0#





#55

1,1,2-Trichloroethane

Concen: 1.284 ug/l

RT: 10.77 min Scan# 1454

Delta R.T. -0.02 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

Instrument :

MSVOA_W

ClientSampled :

3-ARE

Tgt Ion: 97 Resp: 190

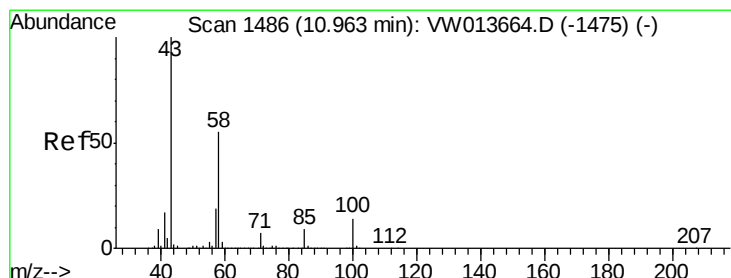
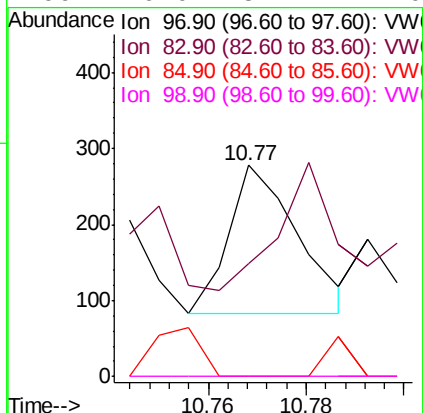
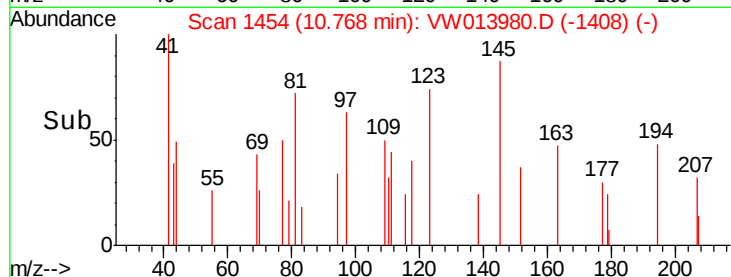
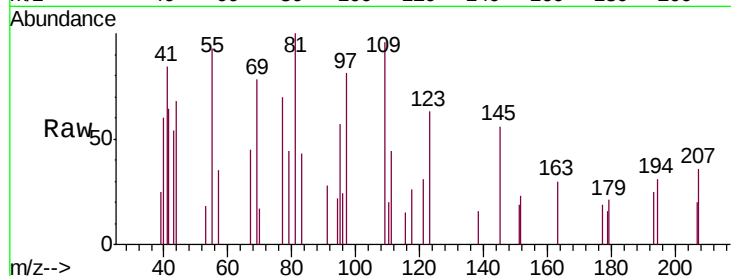
Ion Ratio Lower Upper

97 100

83 14.4 67.8 101.8#

85 0.0 42.1 63.1#

99 0.0 51.4 77.0#



#59

2-Hexanone

Concen: 1.988 ug/l

RT: 10.94 min Scan# 1483

Delta R.T. -0.02 min

Lab File: VW013980.D

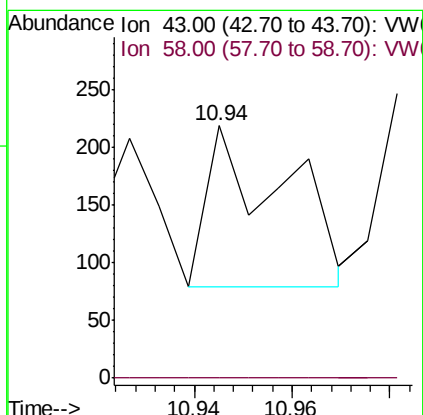
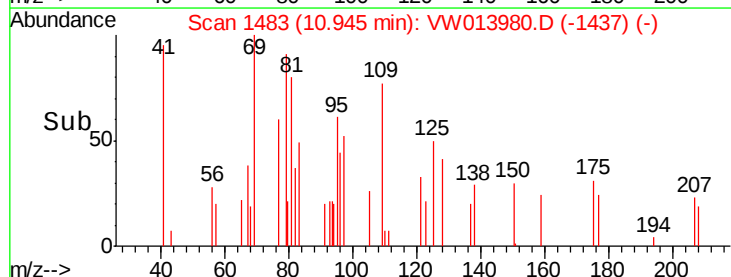
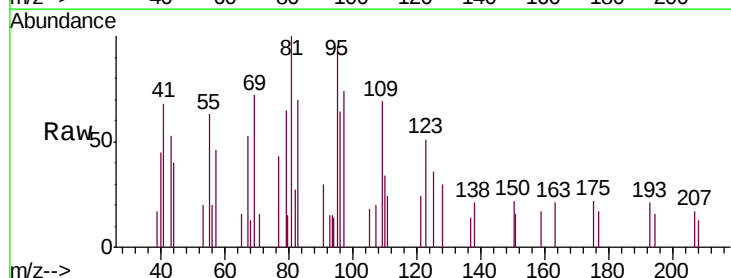
Acq: 12 Nov 2019 17:22

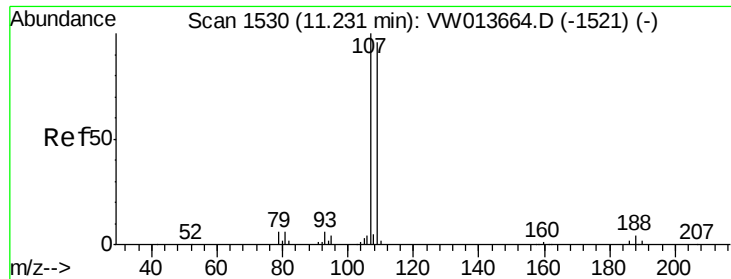
Tgt Ion: 43 Resp: 151

Ion Ratio Lower Upper

43 100

58 0.0 27.9 83.7#

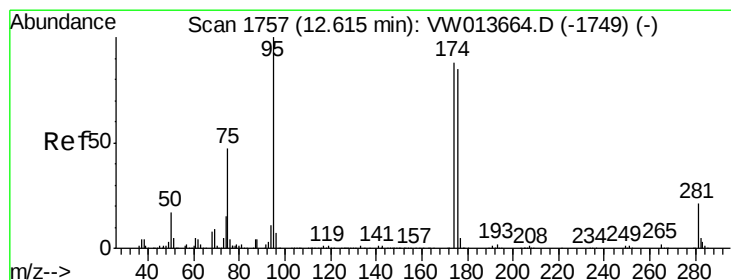
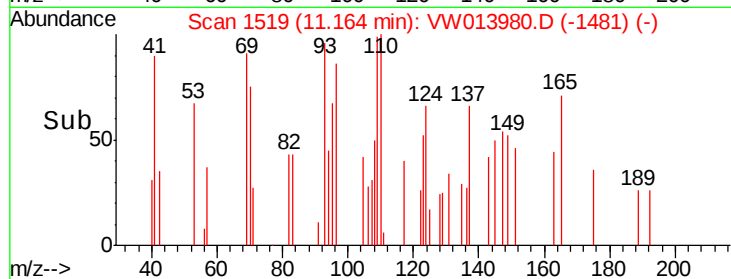
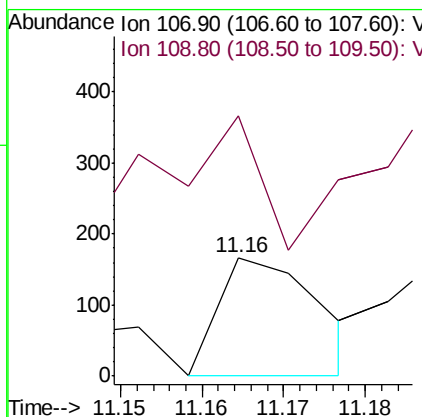
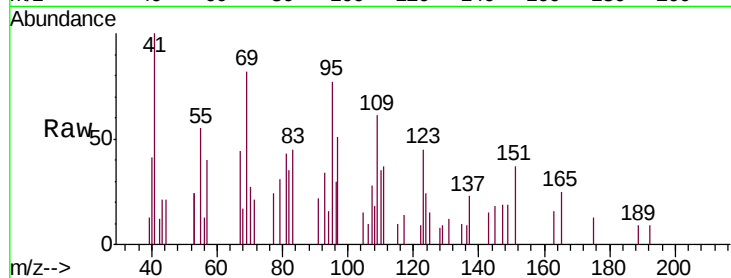




#61
 1,2-Dibromoethane
 Concen: 1.015 ug/l
 RT: 11.16 min Scan# 1519
 Delta R.T. -0.07 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

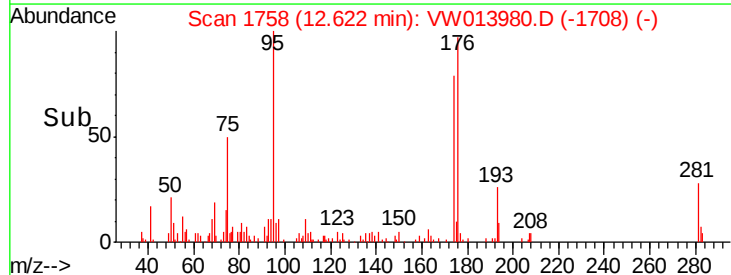
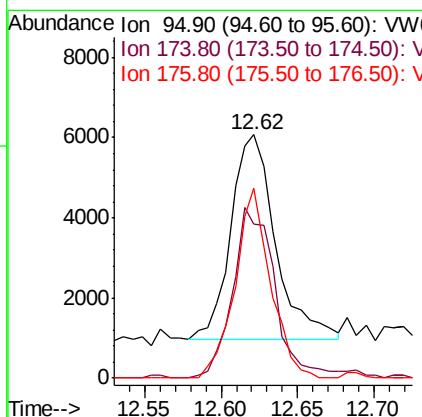
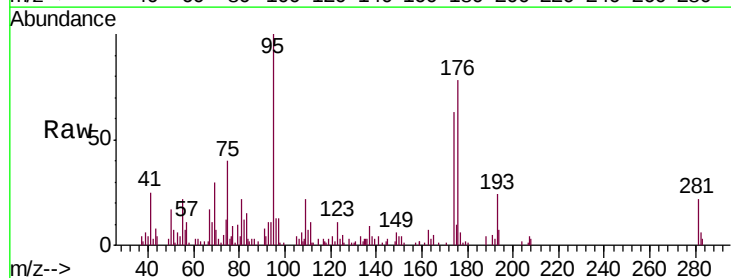
Instrument :
 MSVOA_W
 ClientSampleId :
 3-ARE

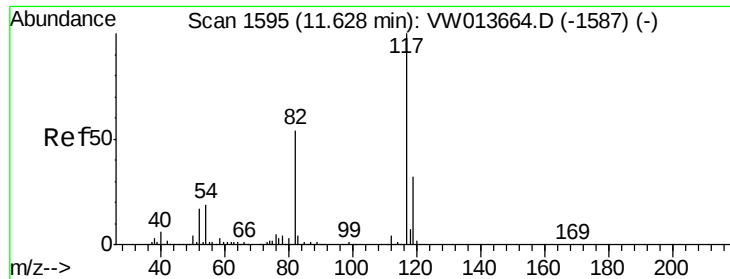
Tgt Ion: 107 Resp: 142
 Ion Ratio Lower Upper
 107 100
 109 107.7 75.7 113.5



#62
 4-Bromofluorobenzene
 Concen: 41.496 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.01 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

Tgt Ion: 95 Resp: 10335
 Ion Ratio Lower Upper
 95 100
 174 80.9 0.0 183.6
 176 73.5 0.0 178.0

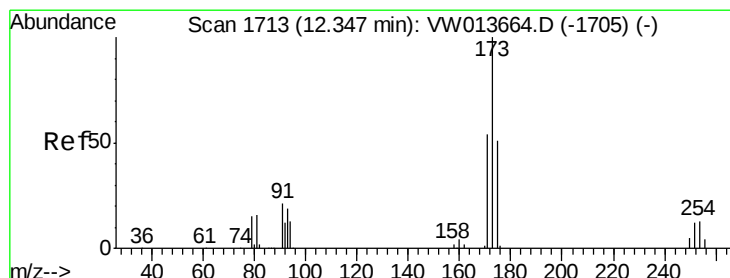
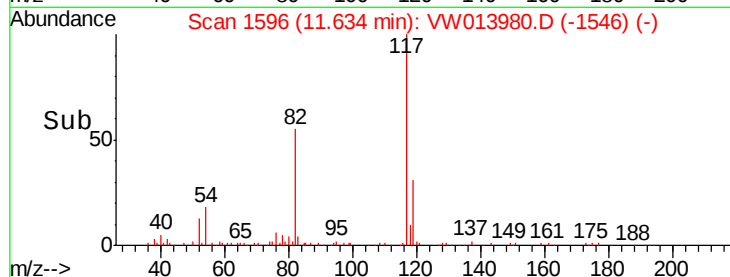
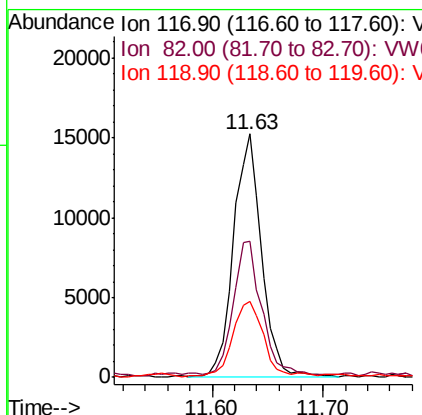
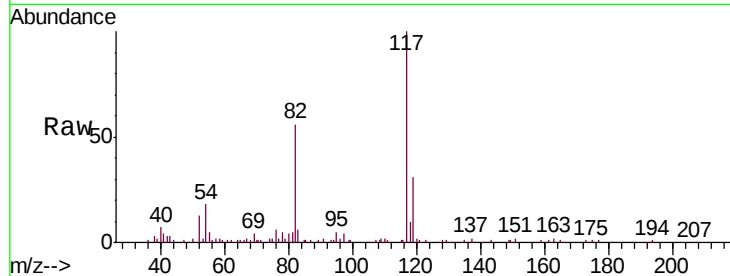




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.01 min
Lab File: VW013980.D
Acq: 12 Nov 2019 17:22

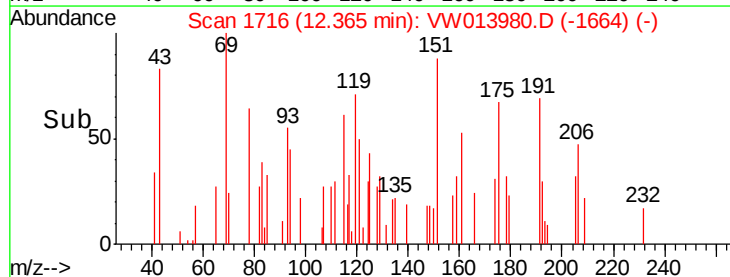
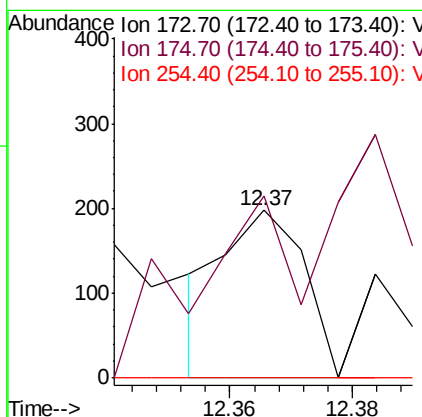
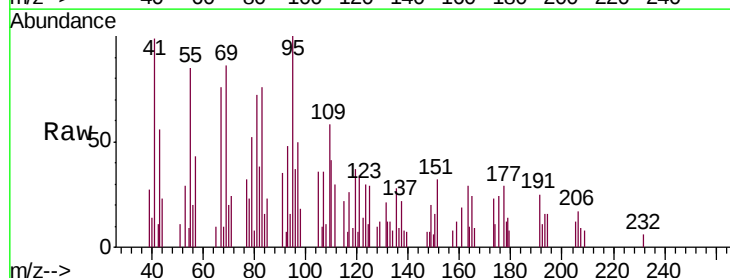
Instrument :
MSVOA_W
ClientSampled :
3-ARE

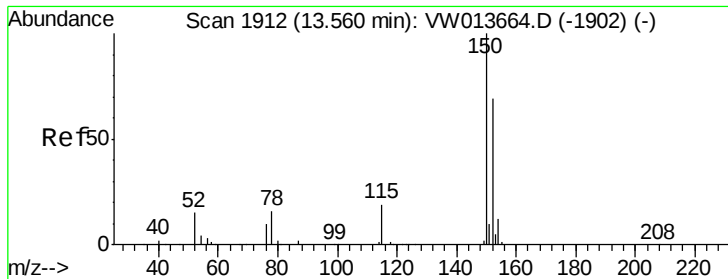
Tgt Ion:117 Resp: 26353
Ion Ratio Lower Upper
117 100
82 54.5 43.6 65.4
119 30.6 25.4 38.2



#71
Bromoform
Concen: 1.825 ug/l
RT: 12.37 min Scan# 1716
Delta R.T. 0.02 min
Lab File: VW013980.D
Acq: 12 Nov 2019 17:22

Tgt Ion:173 Resp: 181
Ion Ratio Lower Upper
173 100
175 133.7 25.2 75.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

Instrument :

MSVOA_W

ClientSampleId :

3-ARE

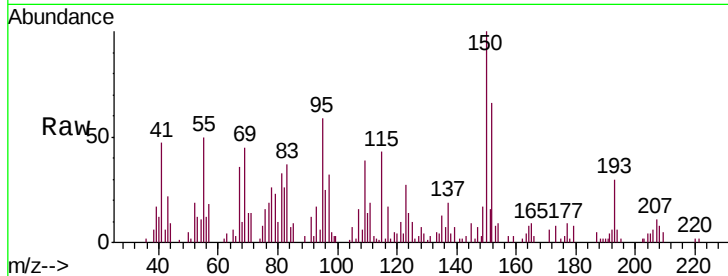
Tgt Ion:152 Resp: 6255

Ion Ratio Lower Upper

152 100

115 50.9 27.4 82.2

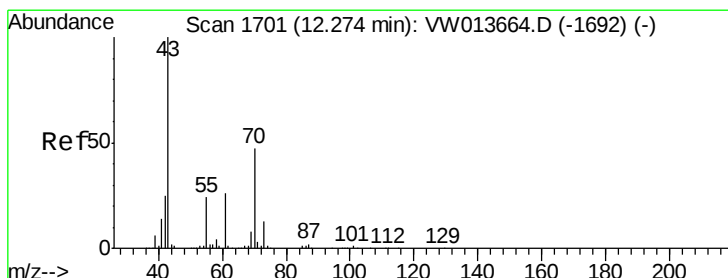
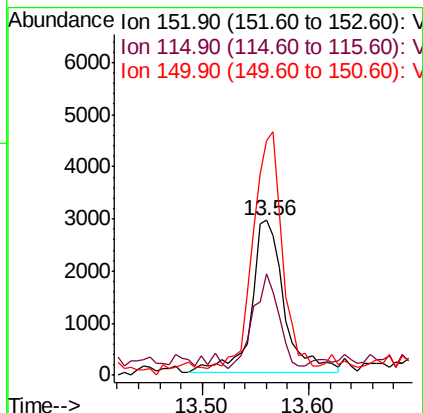
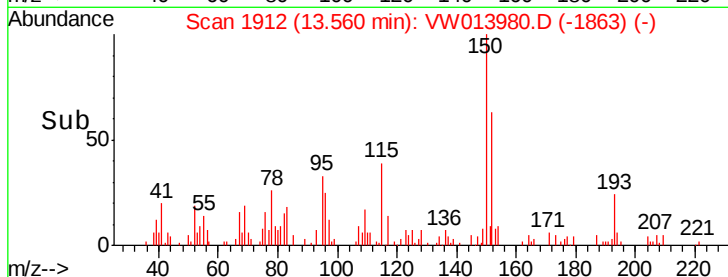
150 138.7 0.0 345.4



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



#74

N-ethyl acetate

Concen: 4.016 ug/l

RT: 12.29 min Scan# 1703

Delta R.T. 0.01 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

Tgt Ion: 43 Resp: 349

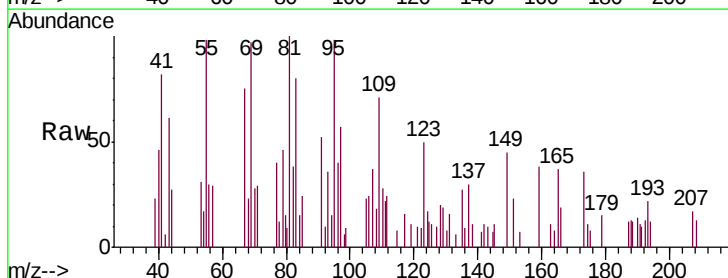
Ion Ratio Lower Upper

43 100

70 0.0 36.6 55.0#

55 69.6 20.3 30.5#

61 0.0 20.4 30.6#

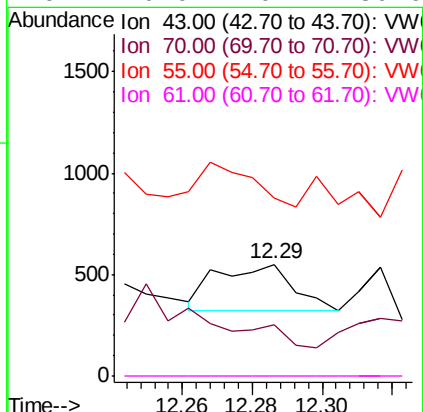
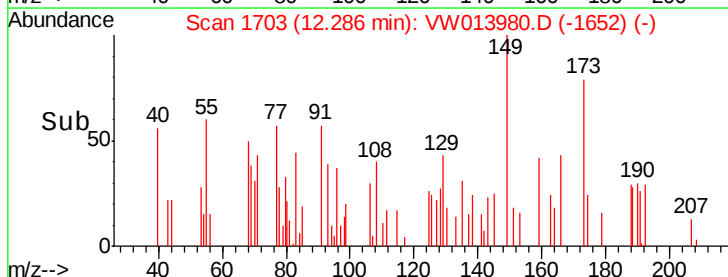


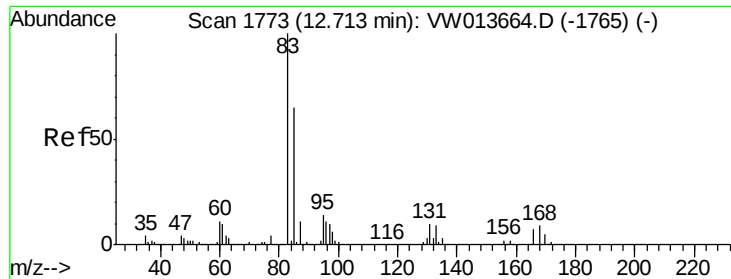
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 16.816 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

Instrument :

MSVOA_W

ClientSampled :

3-ARE

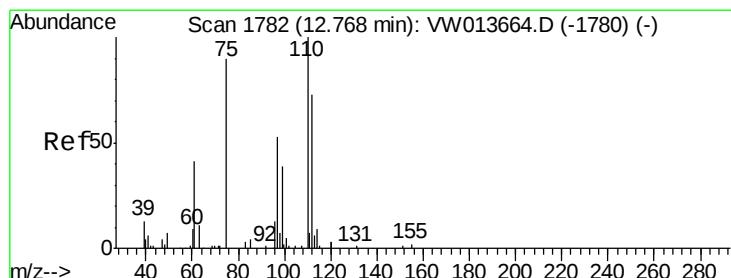
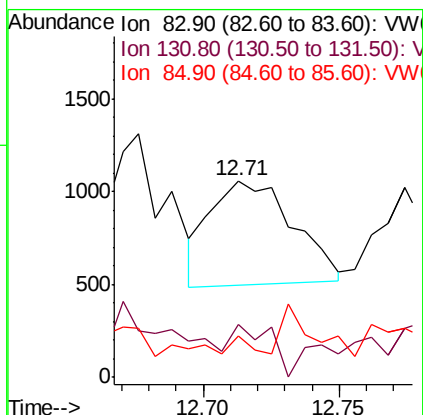
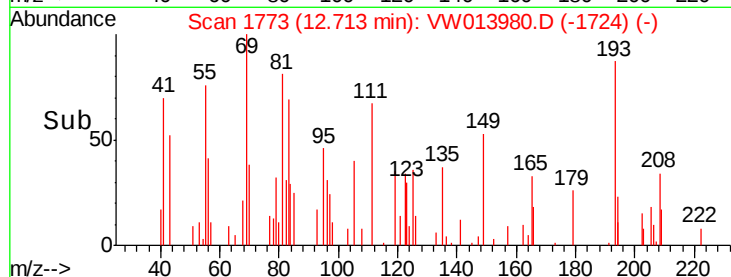
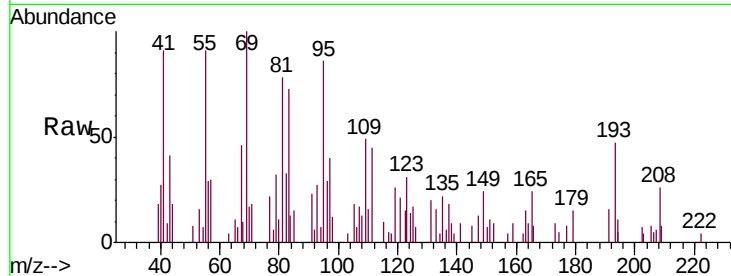
Tgt Ion: 83 Resp: 1192

Ion Ratio Lower Upper

83 100

131 23.3 5.7 17.1#

85 17.9 32.5 97.4#



#76

1,2,3-Trichloropropane

Concen: 92.832 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW013980.D

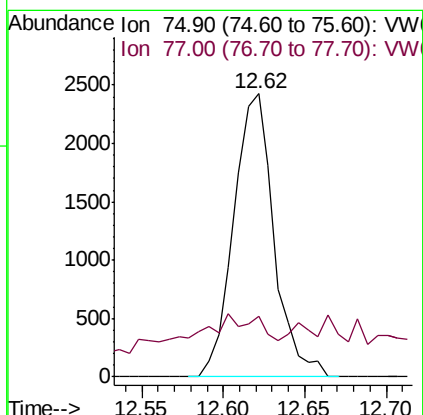
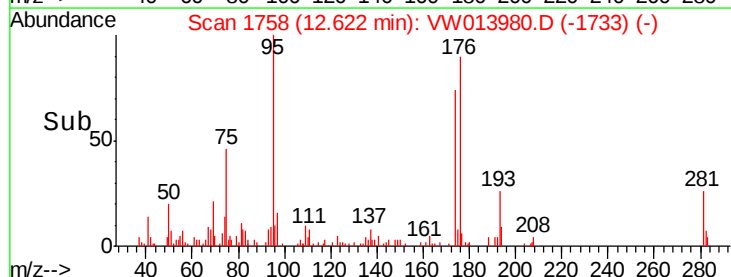
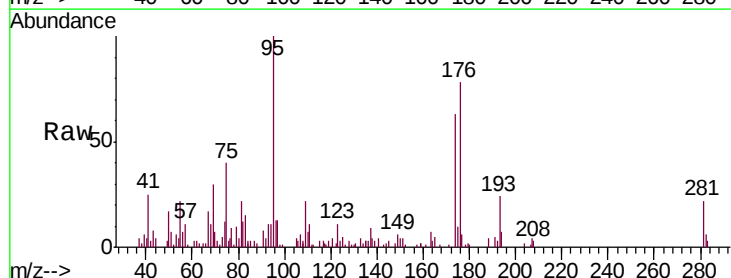
Acq: 12 Nov 2019 17:22

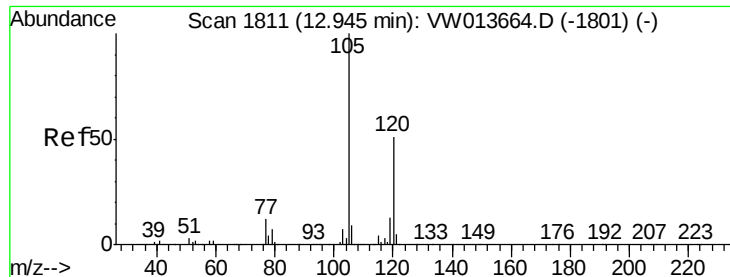
Tgt Ion: 75 Resp: 4170

Ion Ratio Lower Upper

75 100

77 23.4 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 1.044 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.05 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

Instrument :

MSVOA_W

ClientSampled :

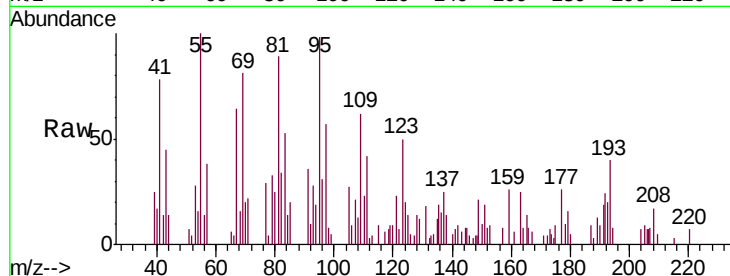
3-ARE

Tgt Ion: 105 Resp: 396

Ion Ratio Lower Upper

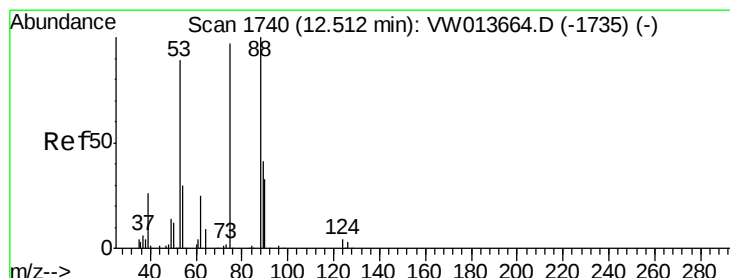
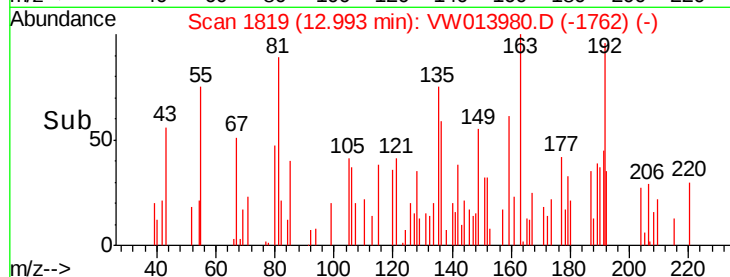
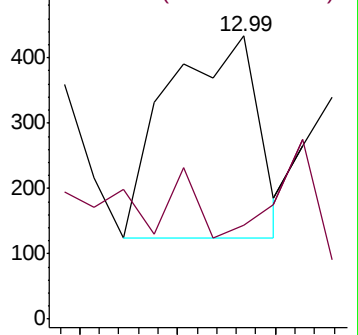
105 100

120 57.6 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 175.440 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

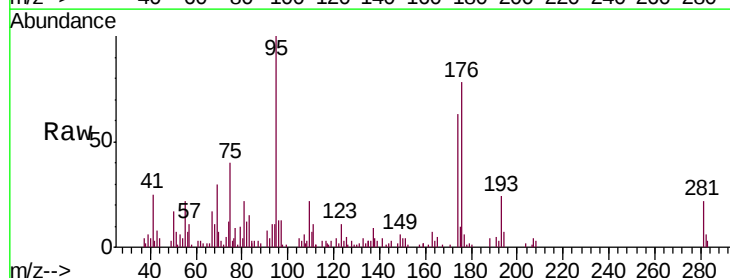
Tgt Ion: 75 Resp: 4170

Ion Ratio Lower Upper

75 100

53 13.7 71.7 107.5#

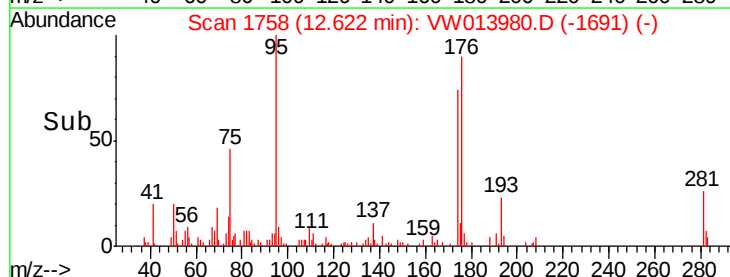
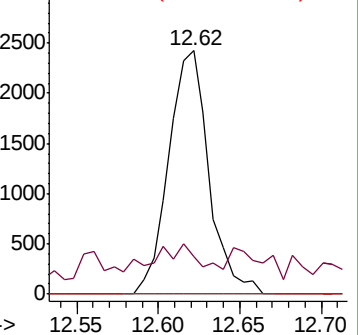
89 0.0 35.8 53.8#

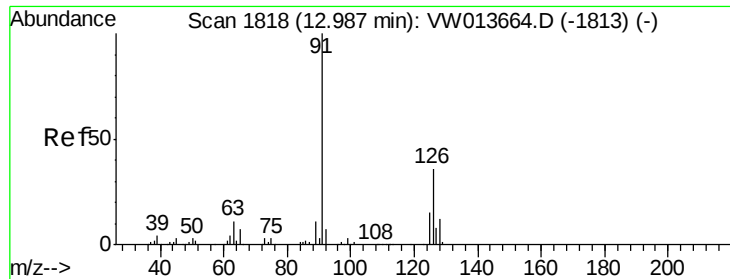


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

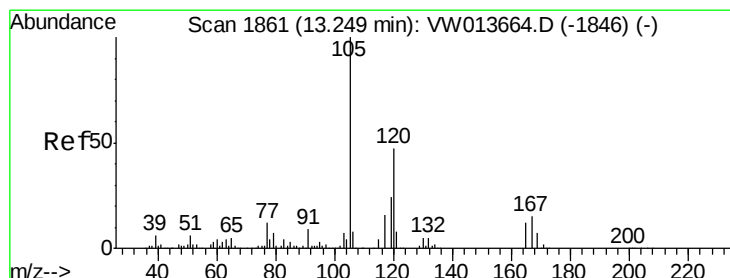
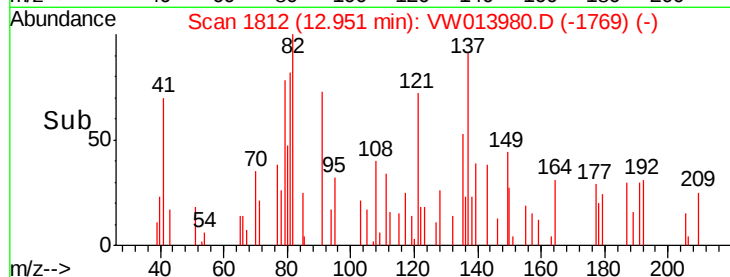
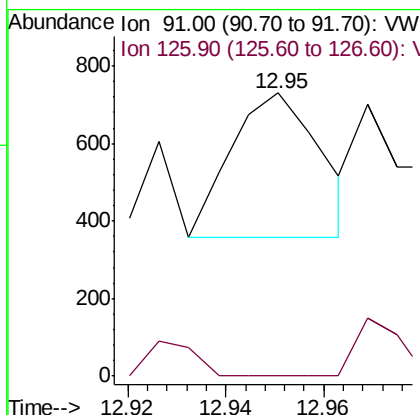
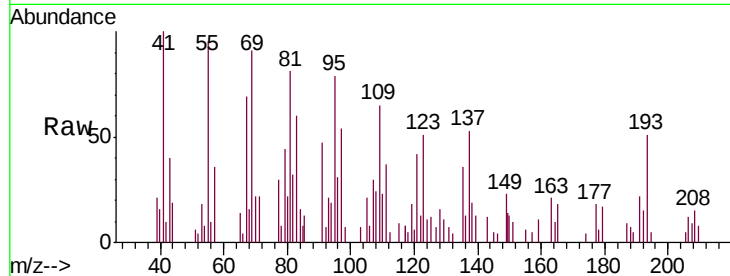




#82
4-Chlorotoluene
Concen: 1.539 ug/l
RT: 12.95 min Scan# 1812
Delta R.T. -0.04 min
Lab File: VW013980.D
Acq: 12 Nov 2019 17:22

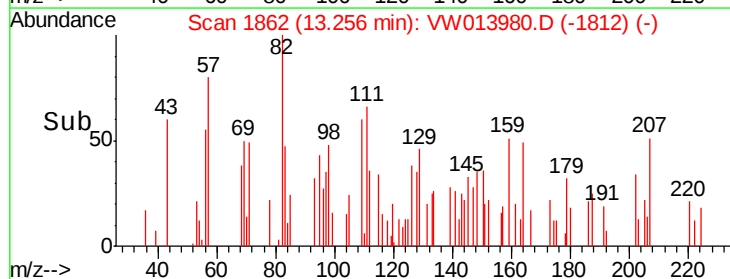
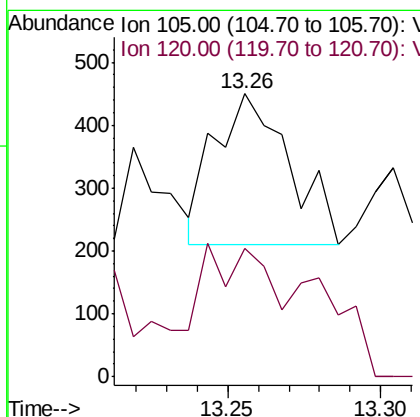
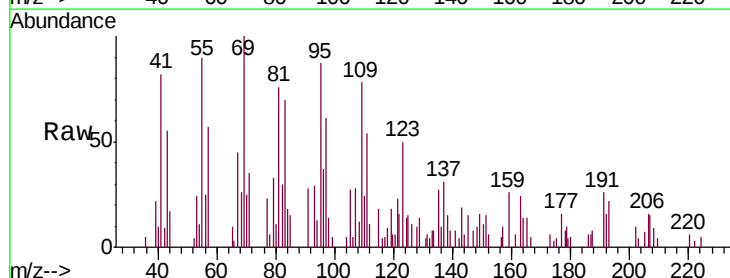
Instrument :
MSVOA_W
ClientSampled :
3-ARE

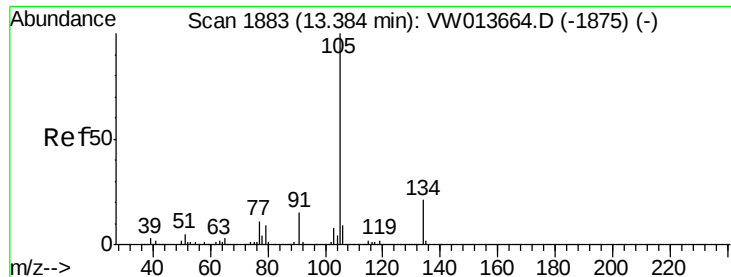
Tgt Ion: 91 Resp: 472
Ion Ratio Lower Upper
91 100
126 19.7 17.2 51.5



#84
1,2,4-Trimethylbenzene
Concen: 1.088 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.01 min
Lab File: VW013980.D
Acq: 12 Nov 2019 17:22

Tgt Ion: 105 Resp: 407
Ion Ratio Lower Upper
105 100
120 42.5 23.5 70.5

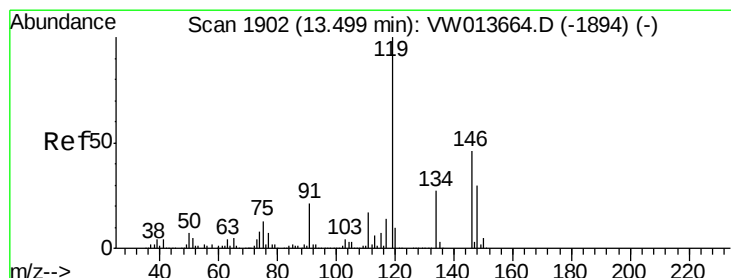
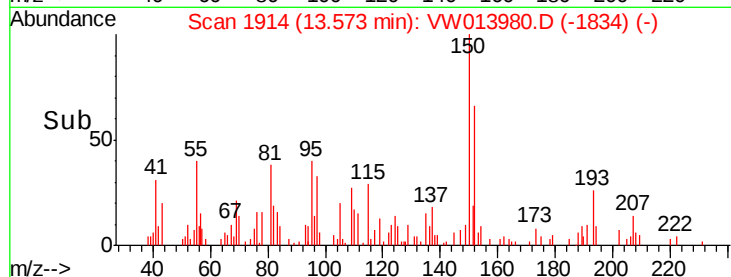
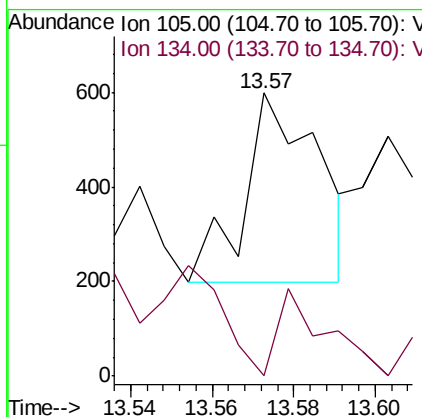
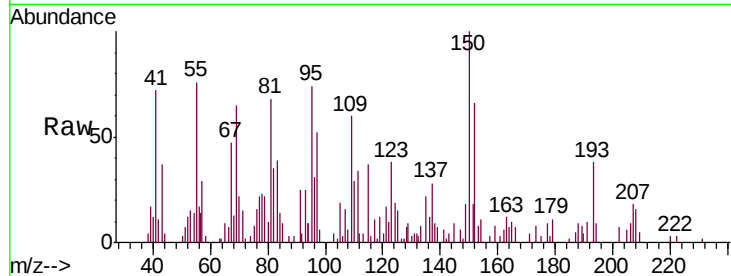




#85
 sec-Butylbenzene
 Concen: 1.106 ug/l
 RT: 13.57 min Scan# 1914
 Delta R.T. 0.19 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

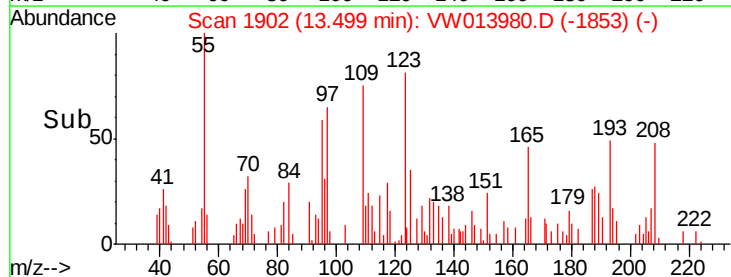
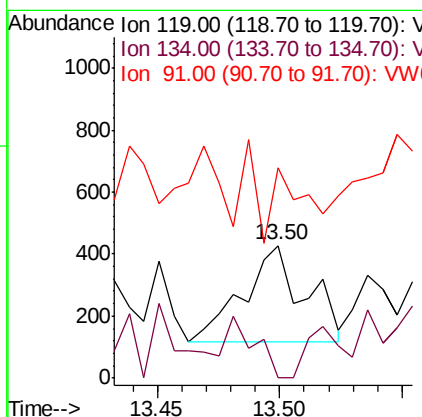
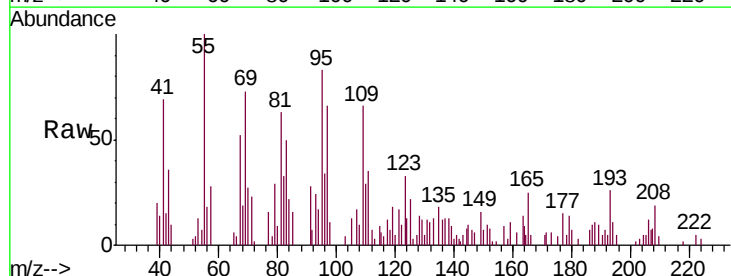
Instrument :
 MSVOA_W
 ClientSampleId :
 3-ARE

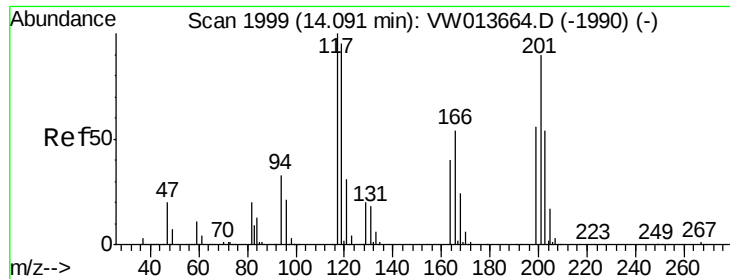
Tgt Ion:105 Resp: 509
 Ion Ratio Lower Upper
 105 100
 134 30.3 10.5 31.5



#86
 p-Isopropyltoluene
 Concen: 1.271 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

Tgt Ion:119 Resp: 545
 Ion Ratio Lower Upper
 119 100
 134 33.0 13.4 40.1
 91 22.4 10.8 32.3





#90

Hexachloroethane

Concen: 1.557 ug/l

RT: 14.04 min Scan# 1990

Delta R.T. -0.05 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

Instrument :

MSVOA_W

ClientSampled :

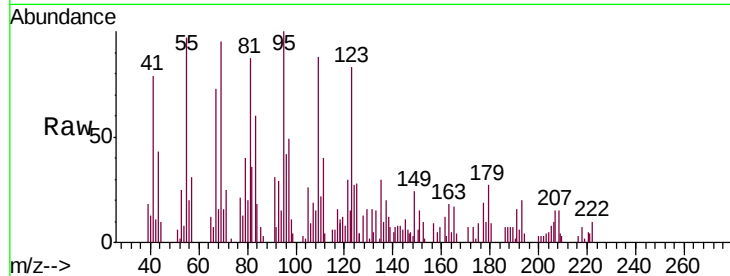
3-ARE

Tgt Ion: 117 Resp: 116

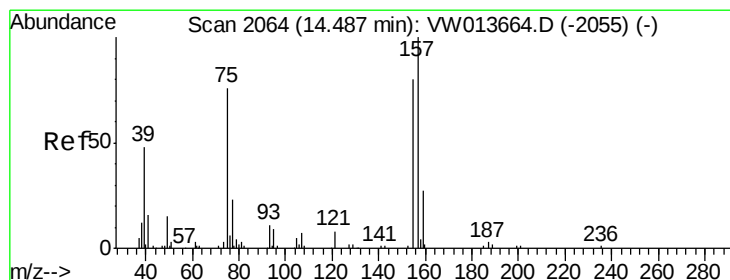
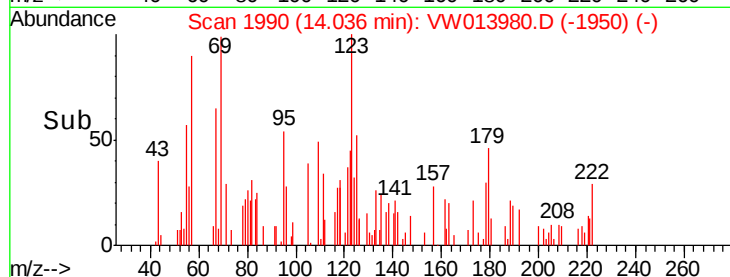
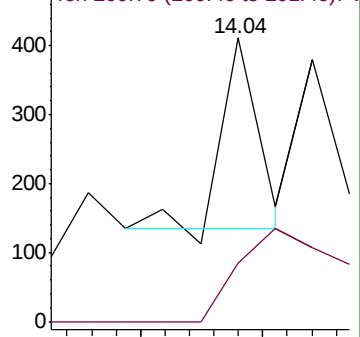
Ion Ratio Lower Upper

117 100

201 128.4 46.1 138.2



Abundance Ion 116.80 (116.50 to 117.50): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.332 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW013980.D

Acq: 12 Nov 2019 17:22

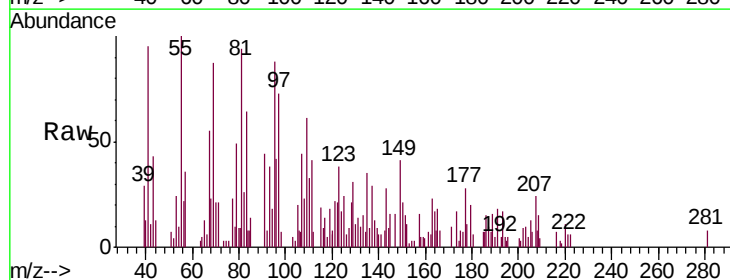
Tgt Ion: 75 Resp: 25

Ion Ratio Lower Upper

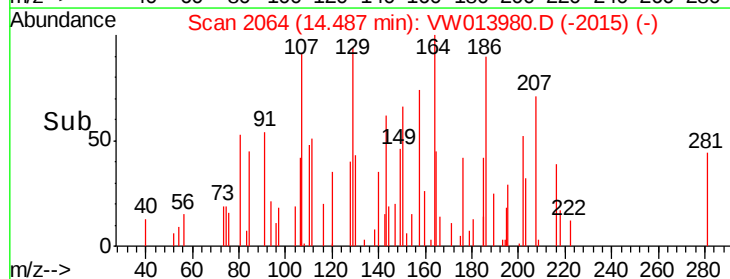
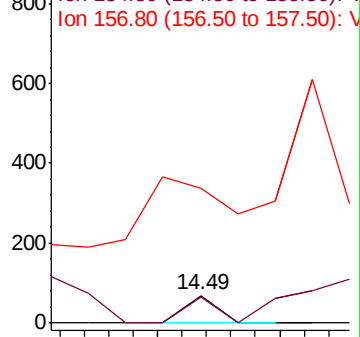
75 100

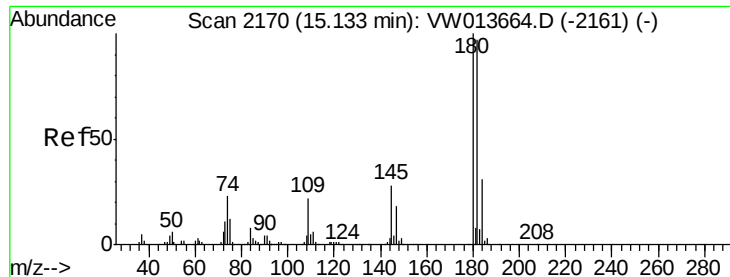
155 0.0 51.9 155.7#

157 0.0 64.8 194.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

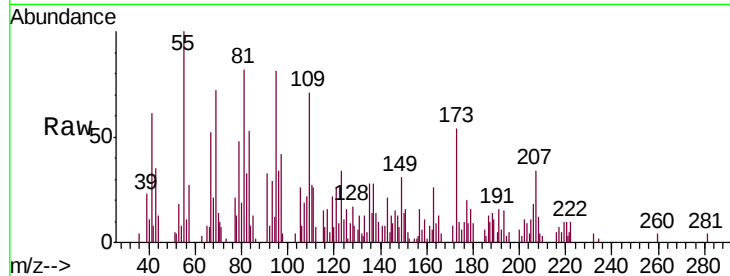




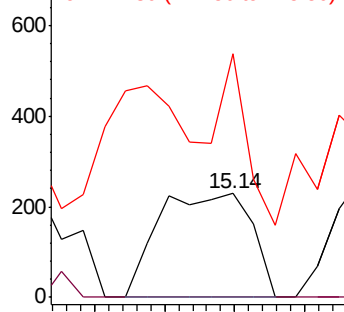
#93
 1,2,4-Trichlorobenzene
 Concen: 3.224 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.01 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

Instrument :
 MSVOA_W
 ClientSampled :
 3-ARE

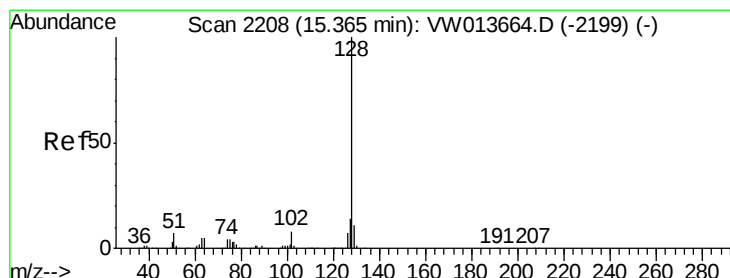
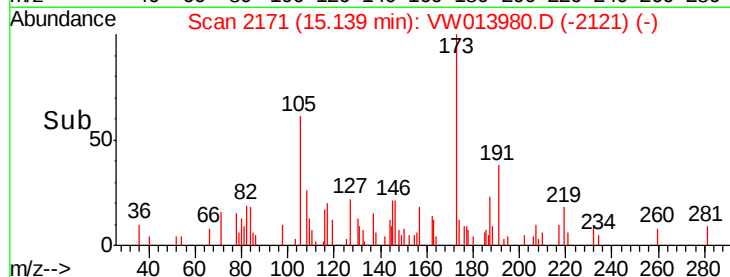
Tgt Ion:180 Resp: 423
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.4 142.2#
 145 0.0 14.1 42.3#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

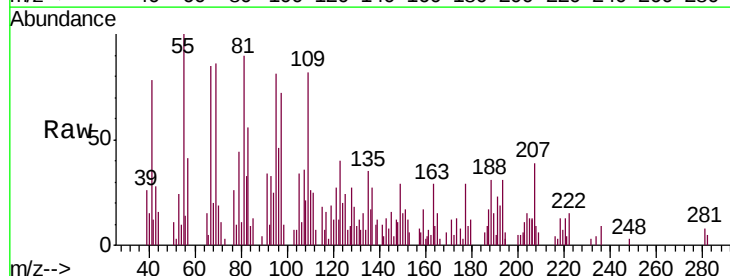


Time-->

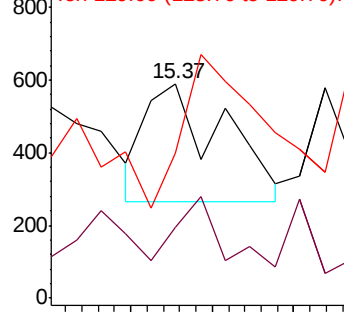


#95
 Naphthalene
 Concen: 2.100 ug/l
 RT: 15.37 min Scan# 2209
 Delta R.T. 0.01 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

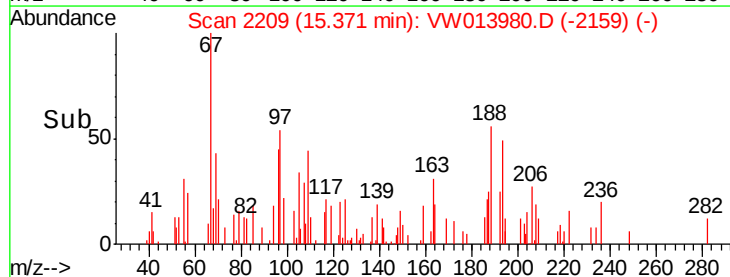
Tgt Ion:128 Resp: 432
 Ion Ratio Lower Upper
 128 100
 127 32.2 10.6 15.8#
 129 142.8 8.7 13.1#

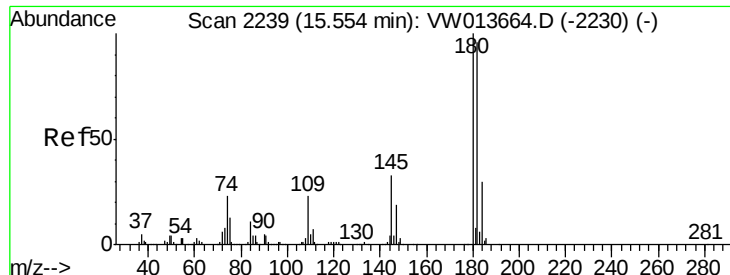


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time-->

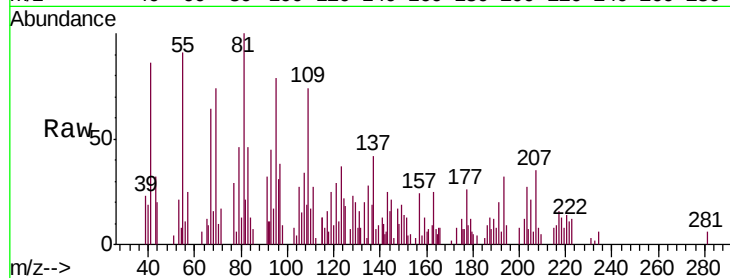




#96
 1,2,3-Trichlorobenzene
 Concen: 1.592 ug/l
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW013980.D
 Acq: 12 Nov 2019 17:22

Instrument :
 MSVOA_W
 ClientSampleId :
 3-ARE

Tgt Ion	Ratio	Lower	Upper
180	100		
182	30.6	47.4	142.3#
145	0.0	14.9	44.9#



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

