

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010320\
 Data File : VW014505.D
 Acq On : 03 Jan 2020 18:12
 Operator : SY/VA
 Sample : K6479-03
 Misc : 7.10G/5ML/MSVOA W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 06 00:45:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W010320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 03 16:07:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	643520	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	989214	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	516948	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	72563	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	327962	58.29	ug/l	0.00
Spiked Amount			Recovery	=	116.58%	
35) Dibromofluoromethane	7.88	113	308328	54.54	ug/l	0.00
Spiked Amount			Recovery	=	109.08%	
50) Toluene-d8	10.32	98	970118	41.12	ug/l	0.00
Spiked Amount			Recovery	=	82.24%	
62) 4-Bromofluorobenzene	12.62	95	135328	16.91	ug/l	0.00
Spiked Amount			Recovery	=	33.82%	

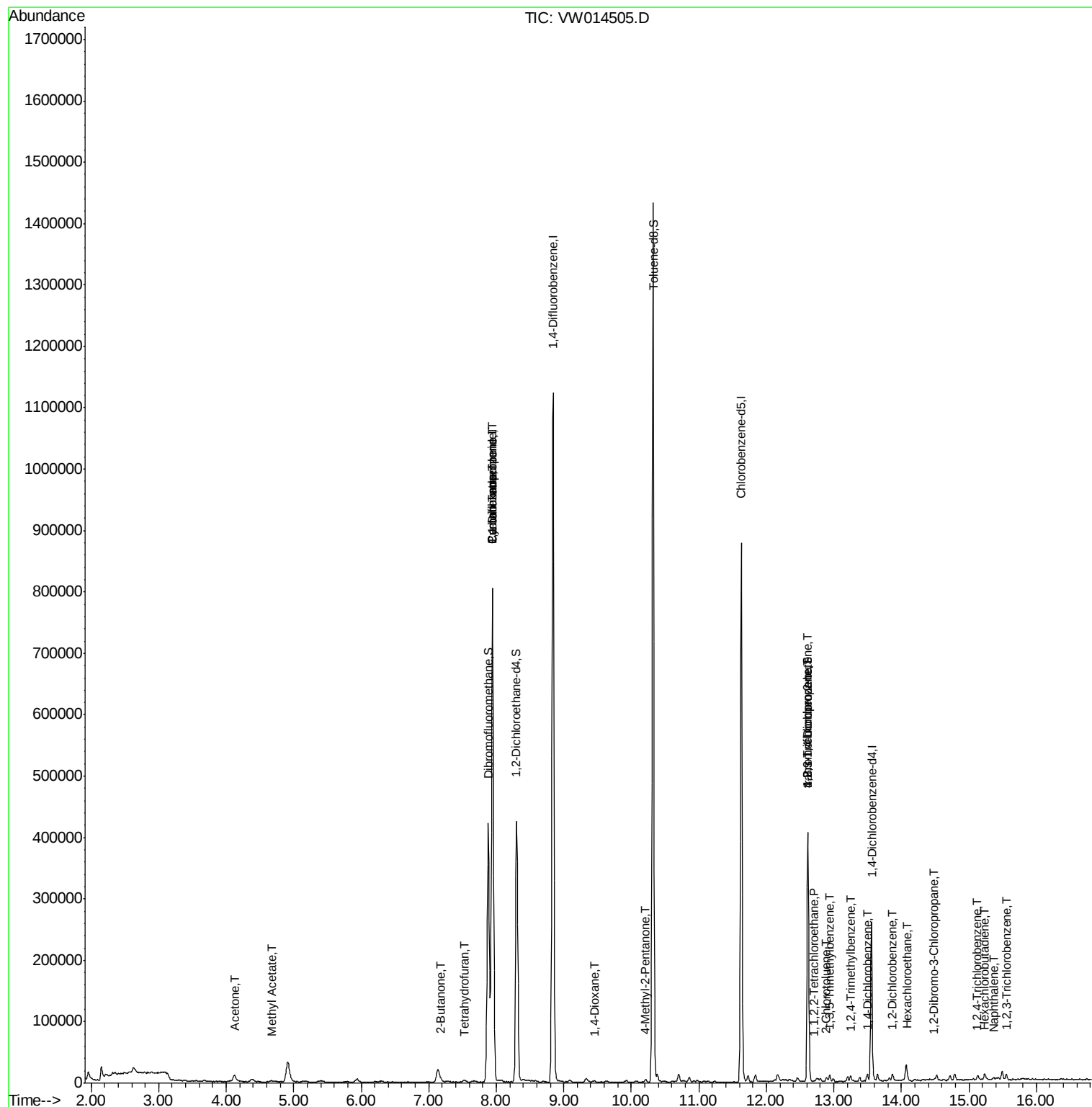
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.13	59	1202	Below Cal	#	73
16) Acetone	4.12	43	22220	13.986	ug/l	95
18) Methyl Acetate	4.67	43	4454	1.161	ug/l #	84
25) 2-Butanone	7.18	43	4356	2.137	ug/l #	86
29) Tetrahydrofuran	7.54	42	2137	1.692	ug/l #	87
31) Cyclohexane	7.94	56	12678	1.056	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	45127	4.732	ug/l #	48
38) Carbon Tetrachloride	7.95	117	57159	6.909	ug/l #	17
49) 1,4-Dioxane	9.45	88	297	4.858	ug/l #	35
51) 4-Methyl-2-Pentanone	10.21	43	4180	1.025	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	1202	1.251	ug/l	96
76) 1,2,3-Trichloropropane	12.62	75	62991	91.814	ug/l #	100
79) 2-Chlorotoluene	12.89	91	3576	1.004	ug/l	95
80) 1,3,5-Trimethylbenzene	12.94	105	4476	1.001	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.62	75	62991	204.565	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.25	105	5334	1.199	ug/l	100
88) 1,4-Dichlorobenzene	13.50	146	2376	1.001	ug/l	94
90) Hexachloroethane	14.10	117	1266	1.468	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	2445	1.157	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.48	75	407	2.674	ug/l	54
93) 1,2,4-Trichlorobenzene	15.13	180	2477	1.735	ug/l	93
94) Hexachlorobutadiene	15.23	225	1426	1.491	ug/l	95
95) Naphthalene	15.37	128	3961	1.627	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.55	180	2886	2.320	ug/l	90

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

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Quant Title : SW846 8260
QLast Update : Fri Jan 03 16:07:20 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

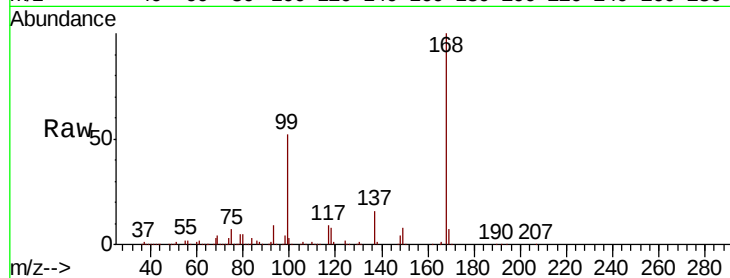
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 643520

Ion Ratio Lower Upper

168 100

99 51.8 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

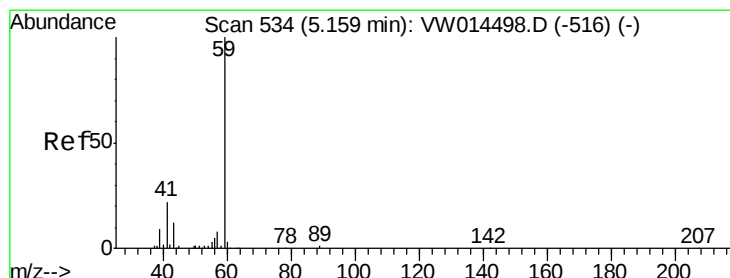
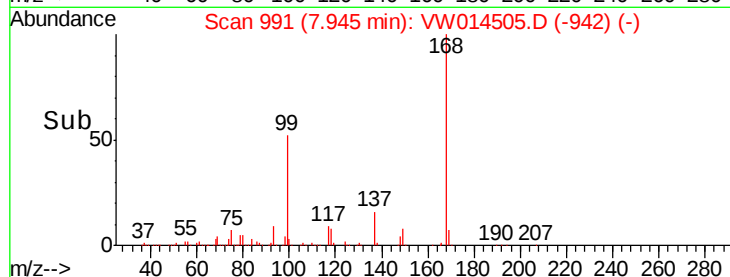
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.13 min Scan# 529

Delta R.T. -0.03 min

Lab File: VW014505.D

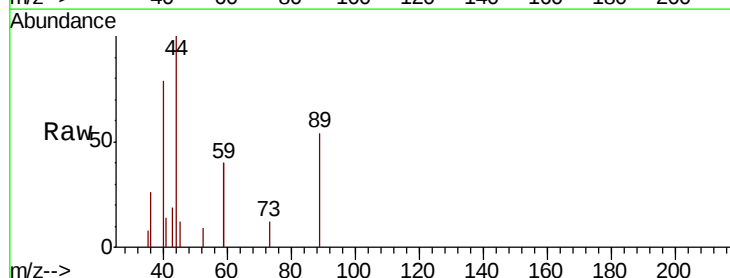
Acq: 03 Jan 2020 18:12

Tgt Ion: 59 Resp: 1202

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.13

600

500

400

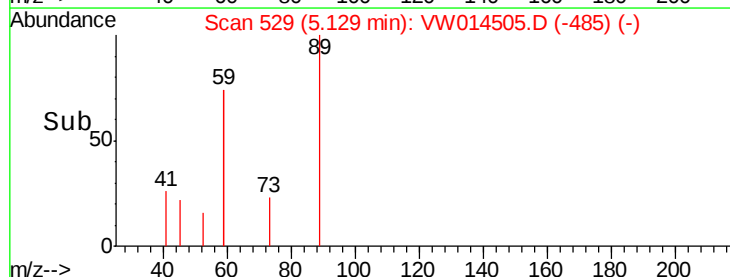
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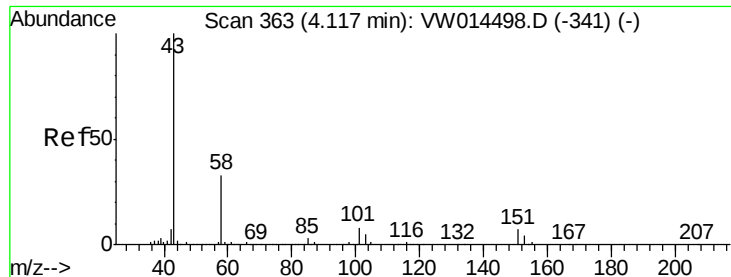
200

100

0

Time-->





#16

Acetone

Concen: 13.986 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

Instrument :

MSVOA_W

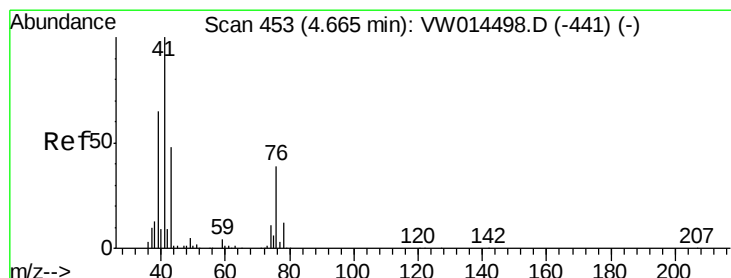
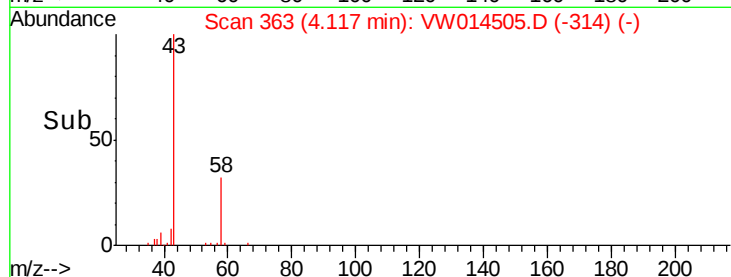
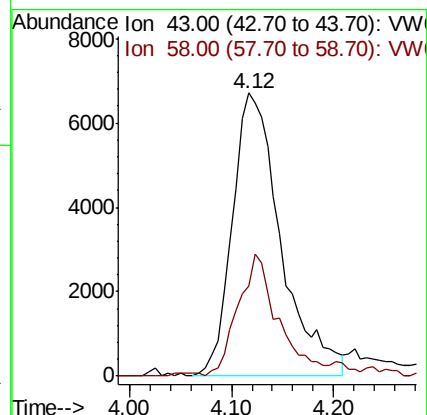
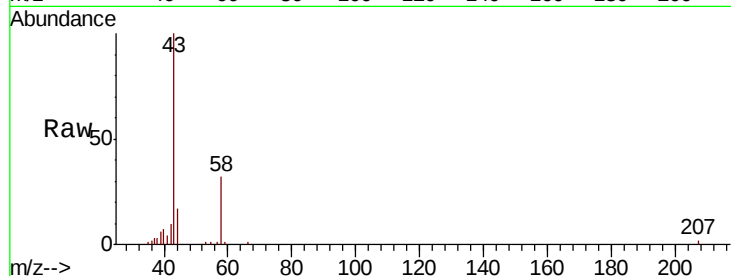
ClientSampleId :

Tot Ion: 43 Resp: 22220

Ion Ratio Lower Upper

43 100

58 30.5 26.6 39.8



#18

Methyl Acetate

Concen: 1.161 ug/l

RT: 4.67 min Scan# 454

Delta R.T. 0.01 min

Lab File: VW014505.D

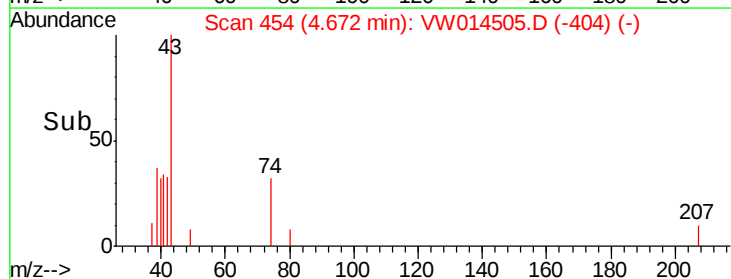
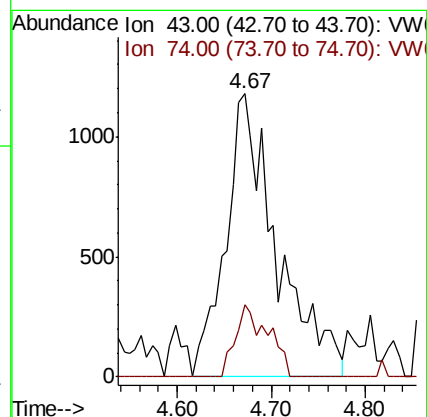
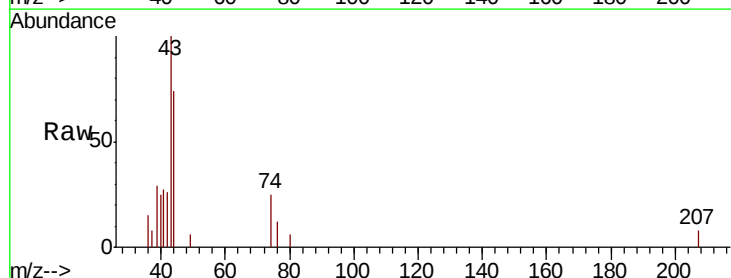
Acq: 03 Jan 2020 18:12

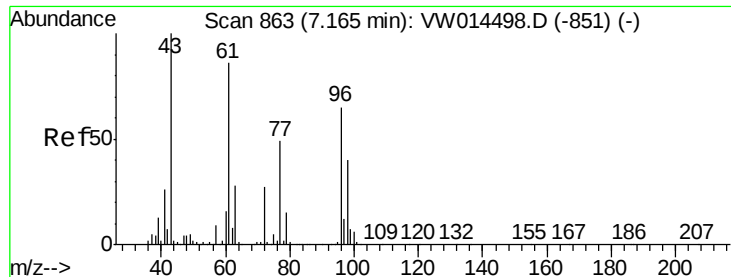
Tgt Ion: 43 Resp: 4454

Ion Ratio Lower Upper

43 100

74 16.4 19.3 28.9#





#25

2-Butanone

Concen: 2.137 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

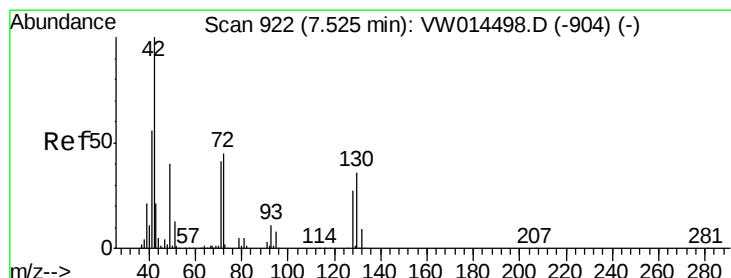
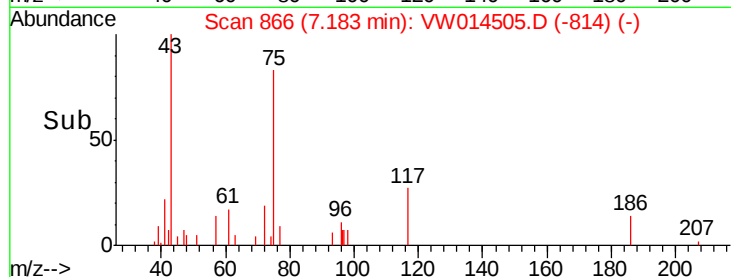
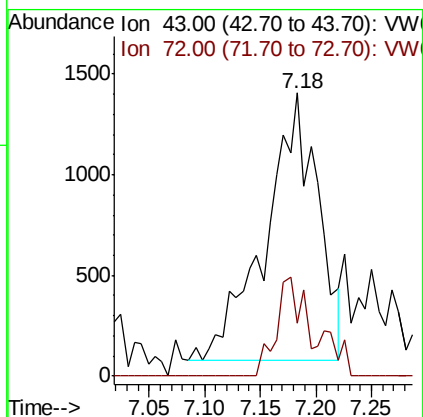
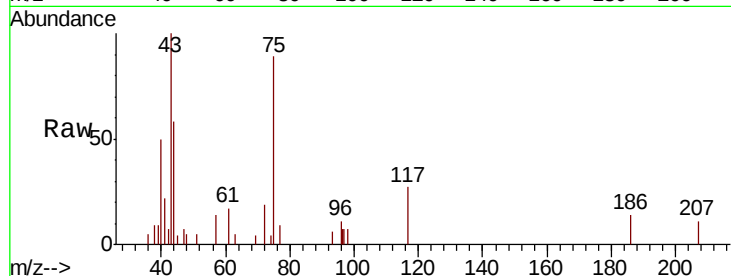
Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 43 Resp: 4356

Ion Ratio Lower Upper

43 100

72 20.0 21.9 32.9#



#29

Tetrahydrofuran

Concen: 1.692 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

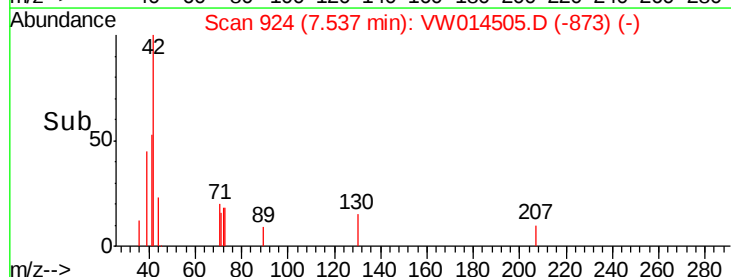
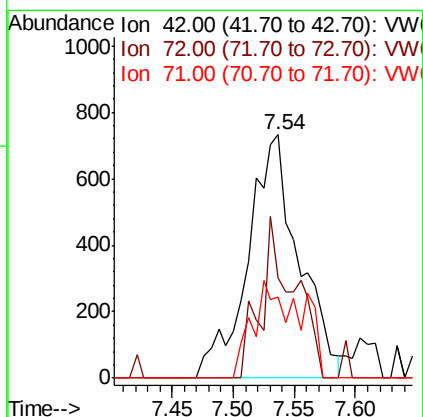
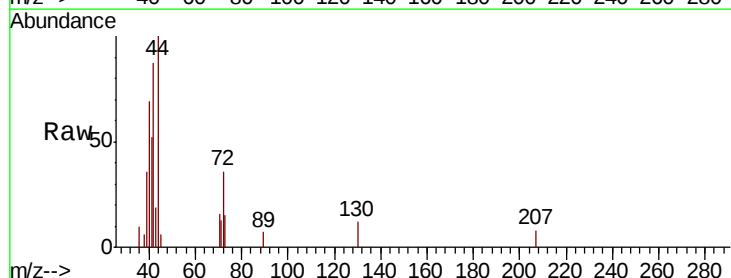
Tgt Ion: 42 Resp: 2137

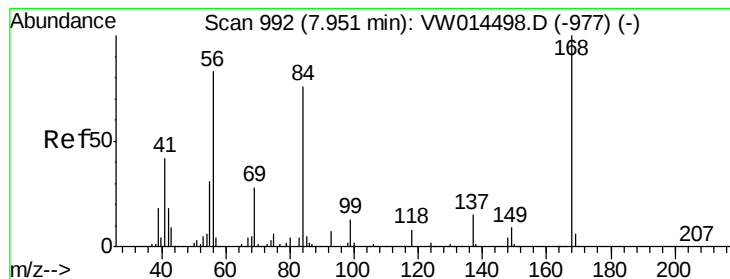
Ion Ratio Lower Upper

42 100

72 43.2 34.5 51.7

71 23.3 32.0 48.0#





#31

Cyclohexane

Concen: 1.056 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

Instrument :

MSVOA_W

ClientSampled :

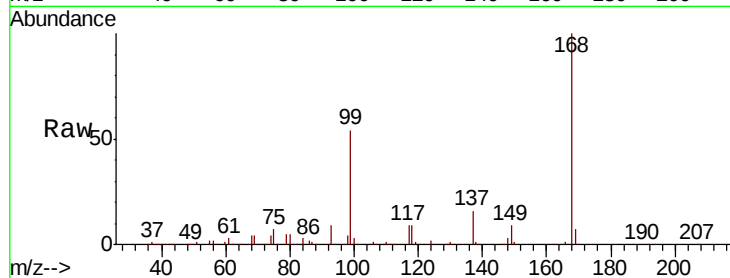
Tot Ion: 56 Resp: 12678

Ion Ratio Lower Upper

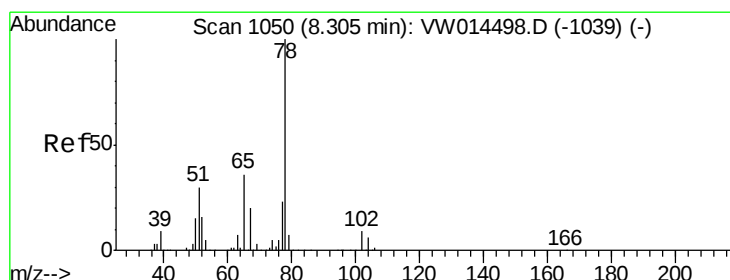
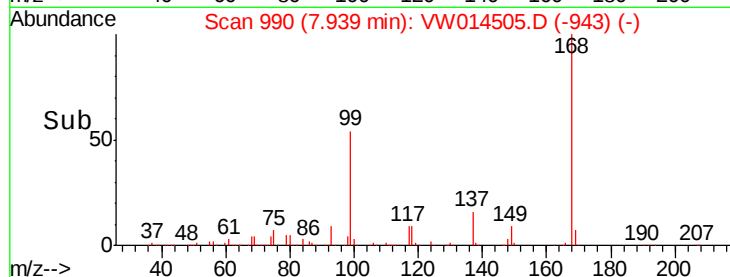
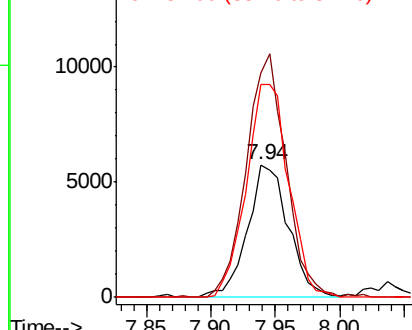
56 100

69 169.1 26.8 40.2#

84 159.8 71.8 107.6#



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



#33

1,2-Dichloroethane-d4

Concen: 58.290 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW014505.D

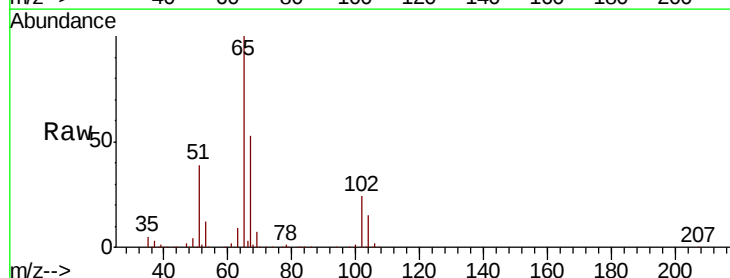
Acq: 03 Jan 2020 18:12

Tgt Ion: 65 Resp: 327962

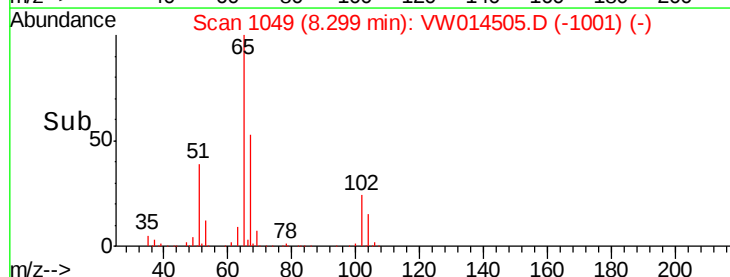
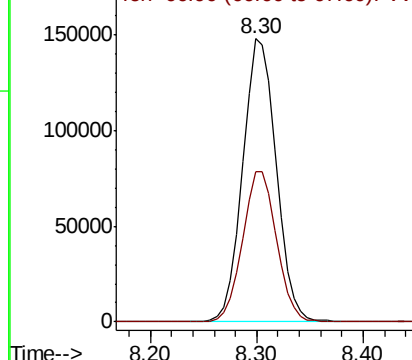
Ion Ratio Lower Upper

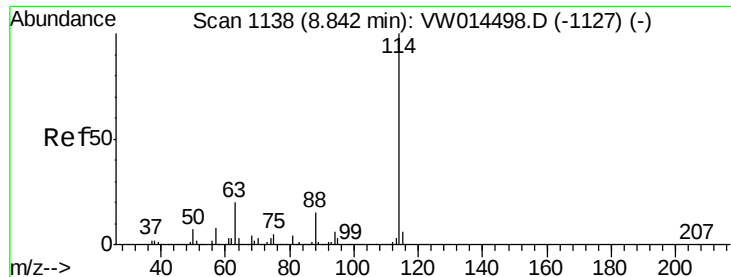
65 100

67 53.8 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

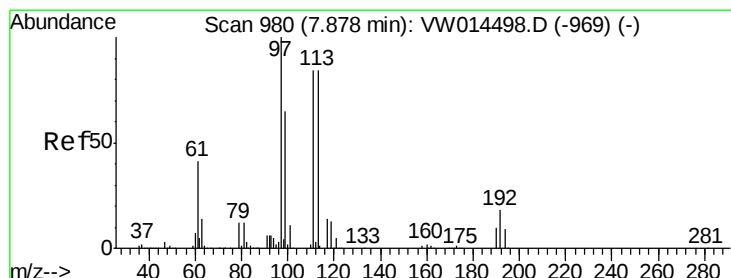
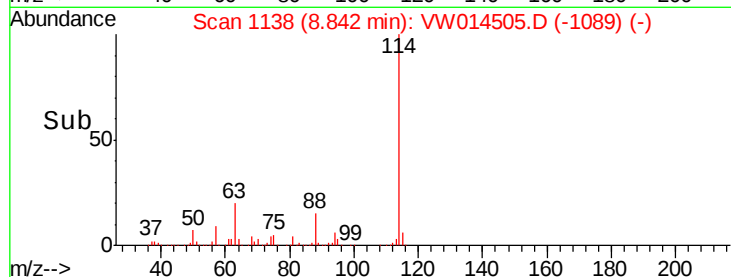
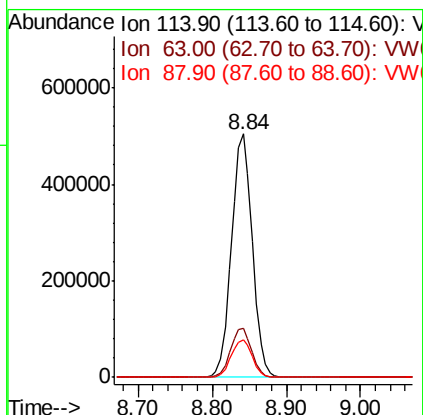
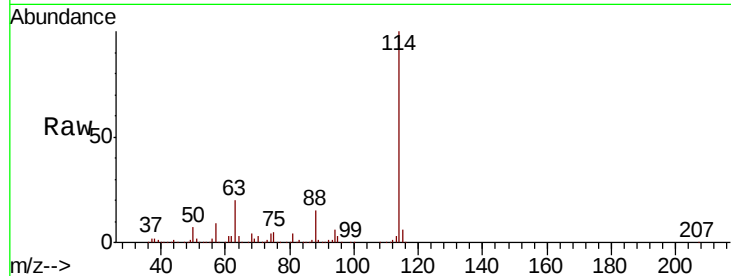




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

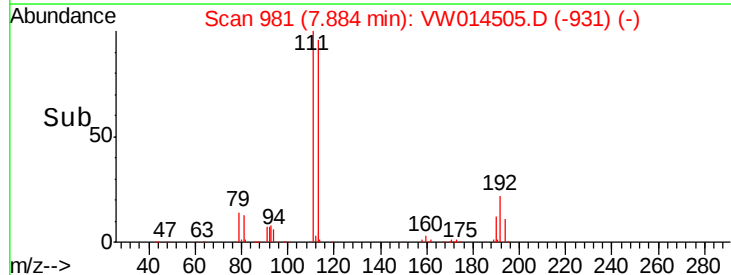
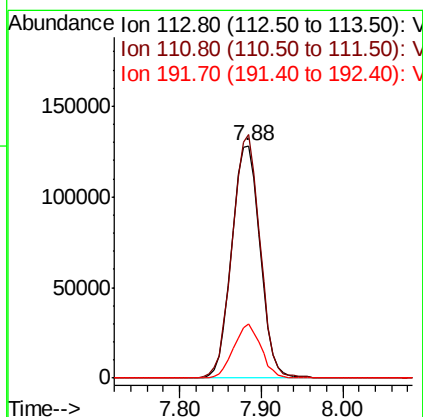
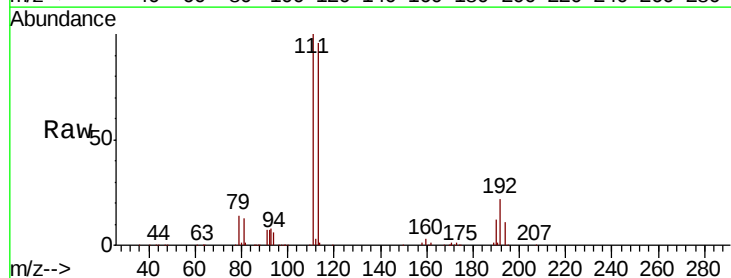
Instrument :
 MSVOA_W
 ClientSampleId :

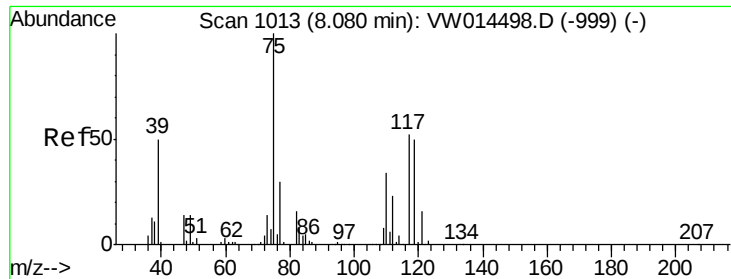
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.4
88	15.5	0.0	30.6



#35
 Dibromofluoromethane
 Concen: 54.537 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.01 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.2
192	22.4	17.8	26.8

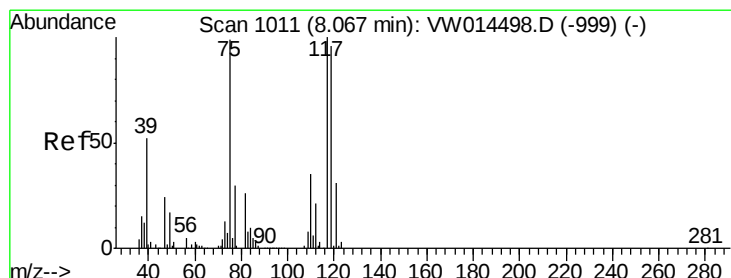
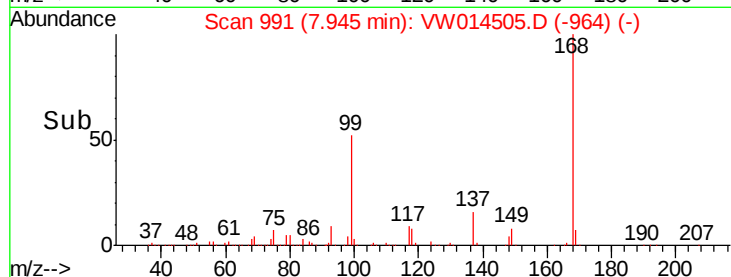
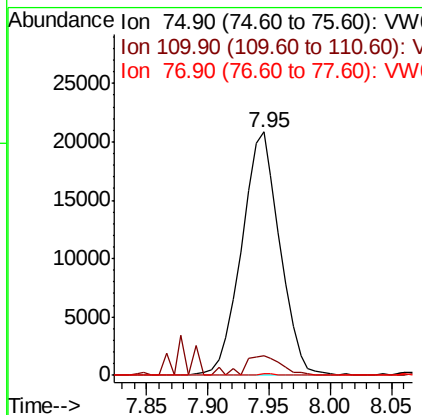
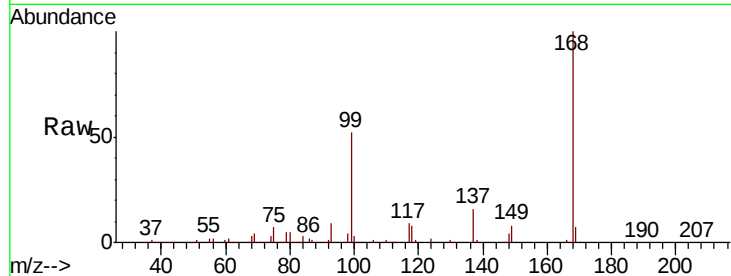




#36
 1,1-Dichloropropene
 Concen: 4.732 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

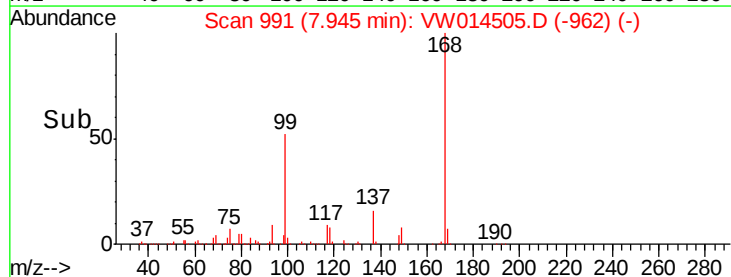
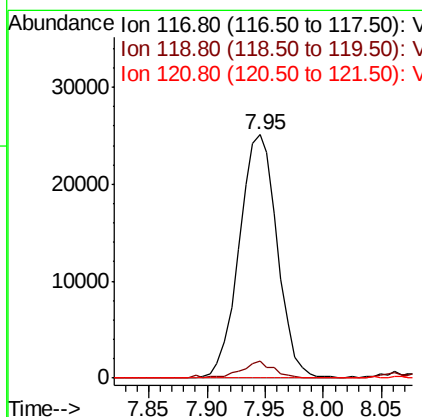
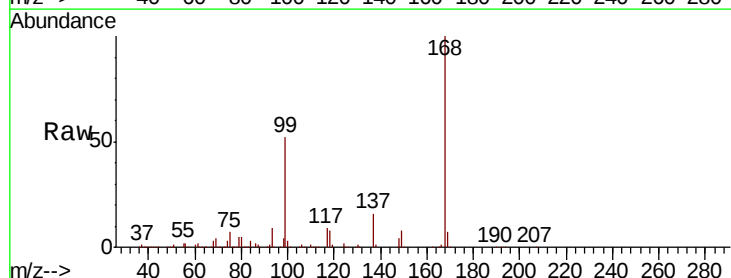
Instrument :
 MSVOA_W
 ClientSampled :

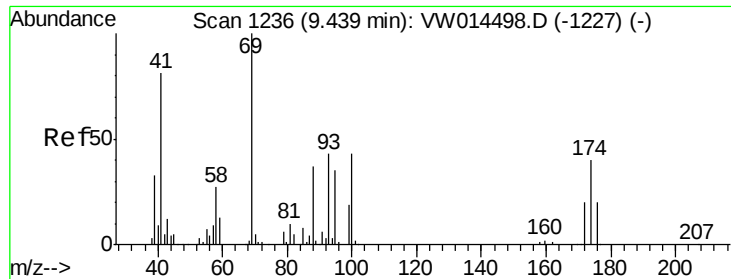
Tot Ion	75	Resp	45127
Ion Ratio	Lower	Upper	
75	100		
110	7.4	17.8	53.5#
77	0.2	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.909 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.12 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

Tgt Ion	117	Resp	57159
Ion Ratio	Lower	Upper	
117	100		
119	6.9	77.0	115.6#
121	0.0	24.6	36.8#

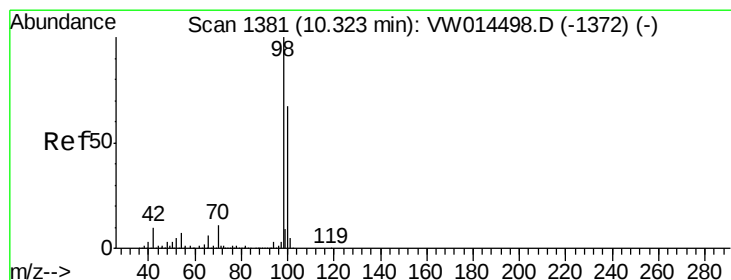
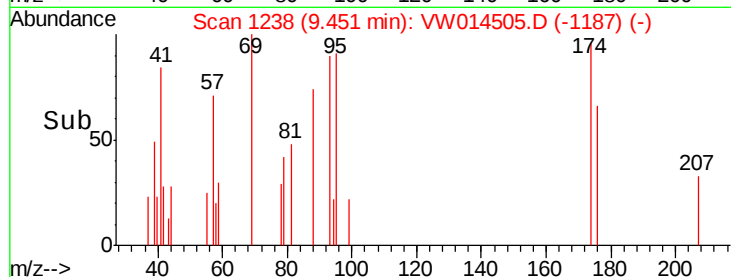
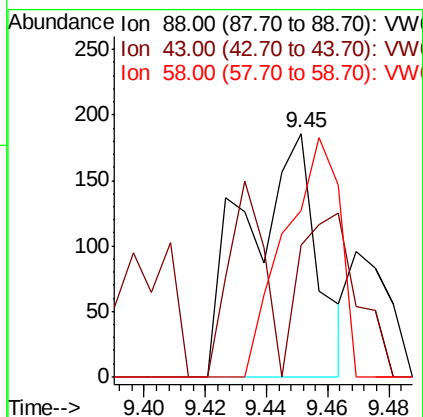
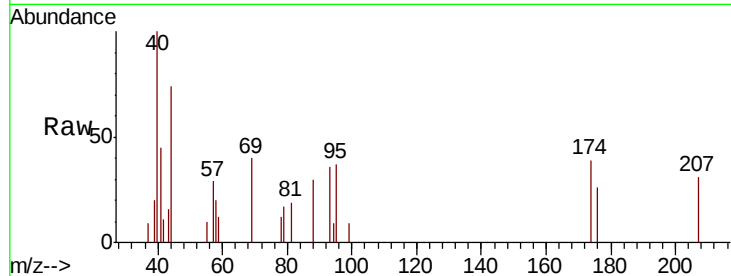




#49
 1,4-Dioxane
 Concen: 4.858 ug/l
 RT: 9.45 min Scan# 1238
 Delta R.T. 0.01 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

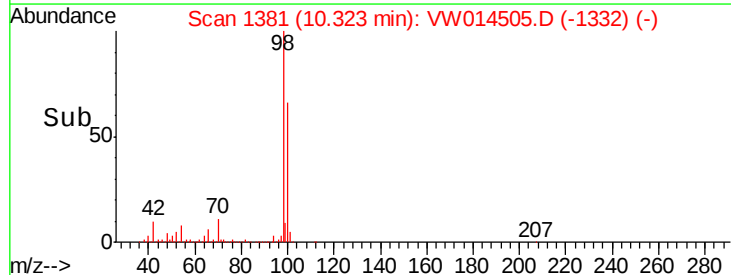
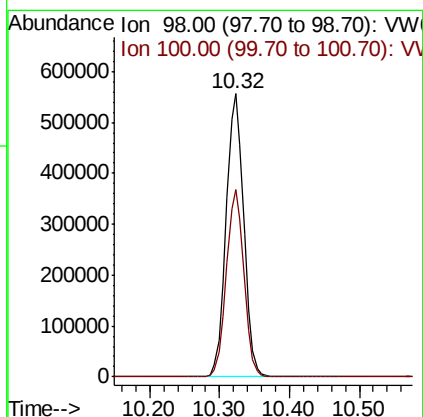
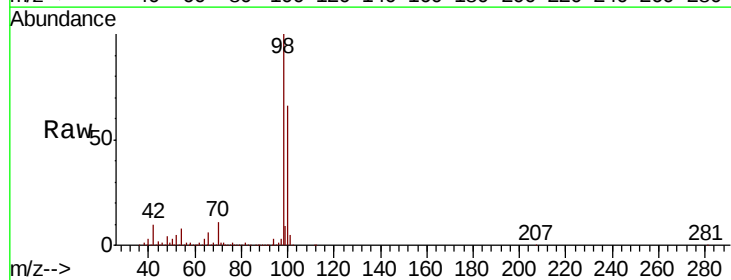
Instrument :
 MSVOA_W
 ClientSampleId :

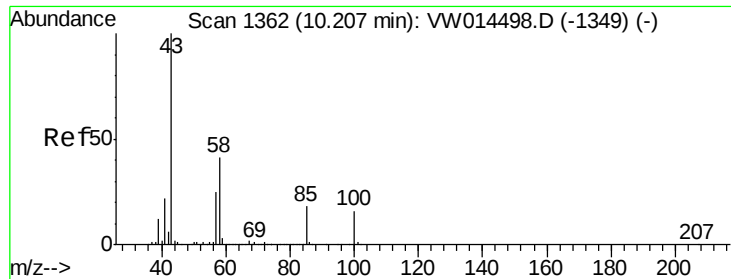
Tot Ion: 88 Resp: 297
 Ion Ratio Lower Upper
 88 100
 43 40.1 24.9 37.3#
 58 0.0 56.9 85.3#



#50
 Toluene-d8
 Concen: 41.118 ug/l
 RT: 10.32 min Scan# 1381
 Delta R.T. -0.00 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

Tgt Ion: 98 Resp: 970118
 Ion Ratio Lower Upper
 98 100
 100 65.9 53.8 80.6





#51

4-Methyl-2-Pentanone

Concen: 1.025 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

Instrument :

MSVOA_W

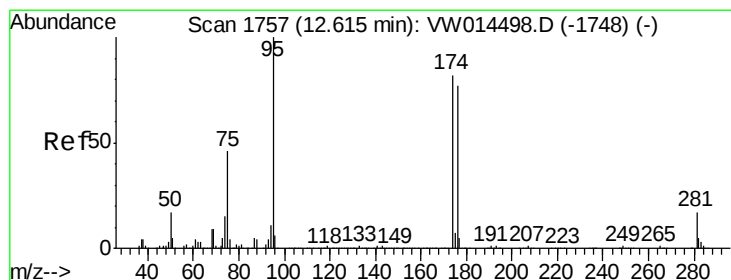
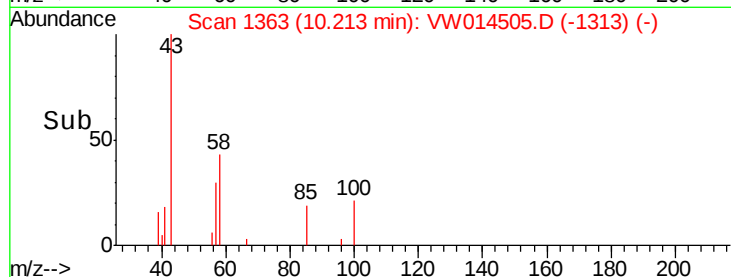
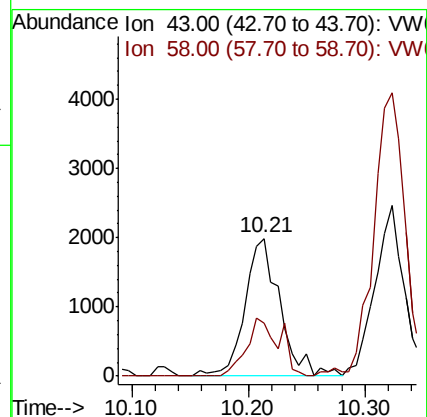
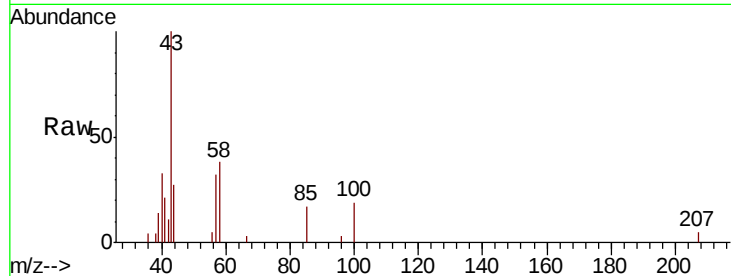
ClientSampleId :

Tot Ion: 43 Resp: 4180

Ion Ratio Lower Upper

43 100

58 40.0 32.7 49.1



#62

4-Bromofluorobenzene

Concen: 16.910 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

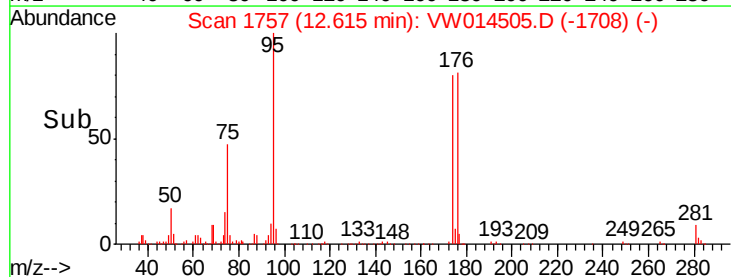
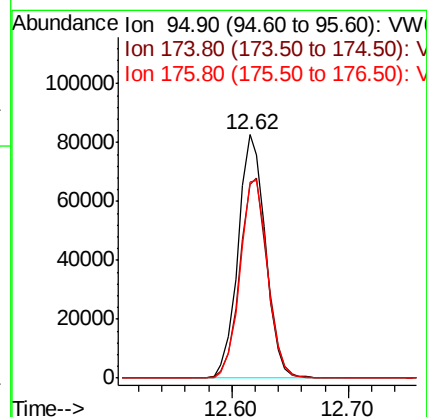
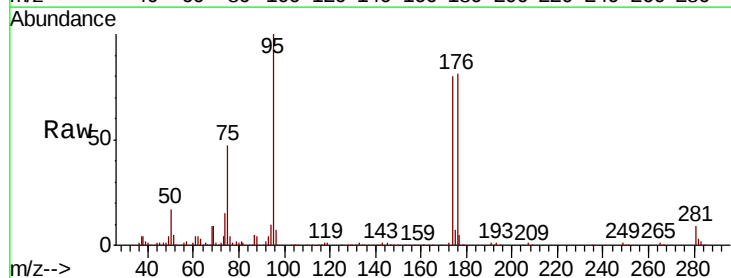
Tgt Ion: 95 Resp: 135328

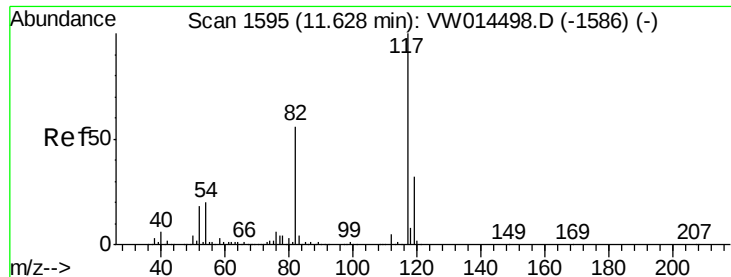
Ion Ratio Lower Upper

95 100

174 83.3 0.0 168.6

176 82.0 0.0 162.0

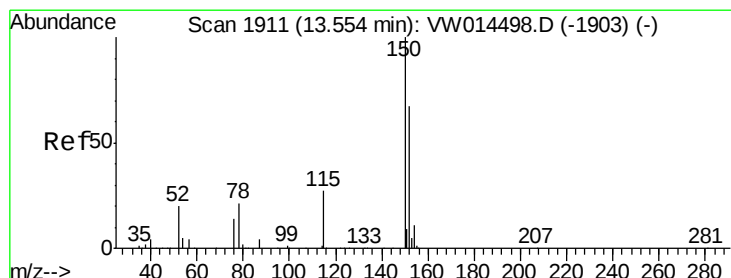
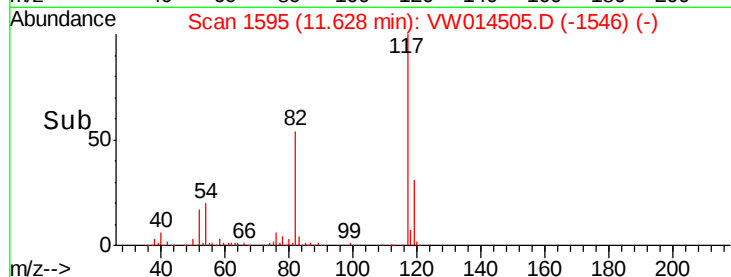
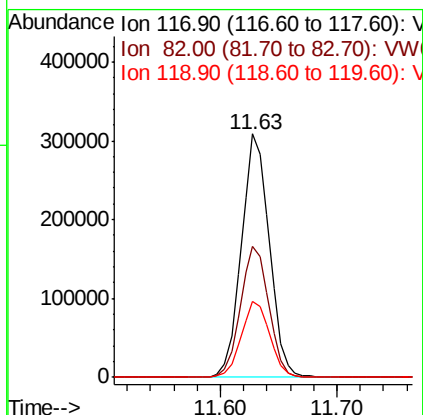
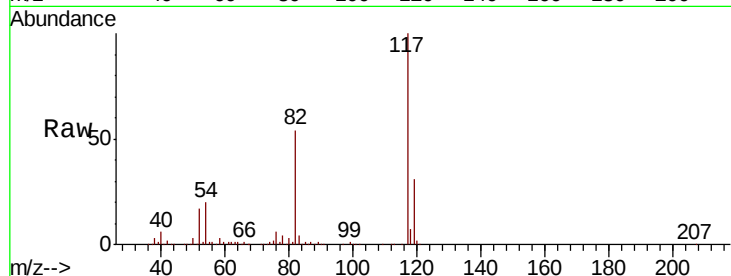




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW014505.D
Acq: 03 Jan 2020 18:12

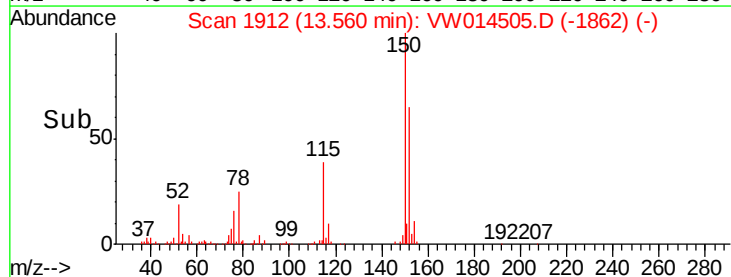
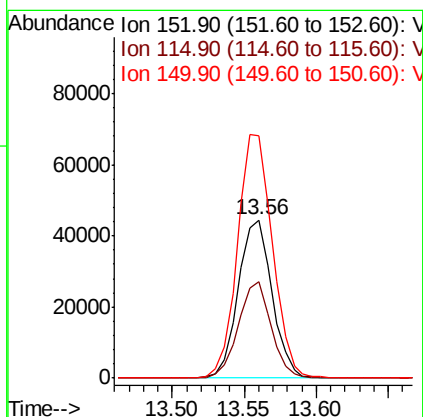
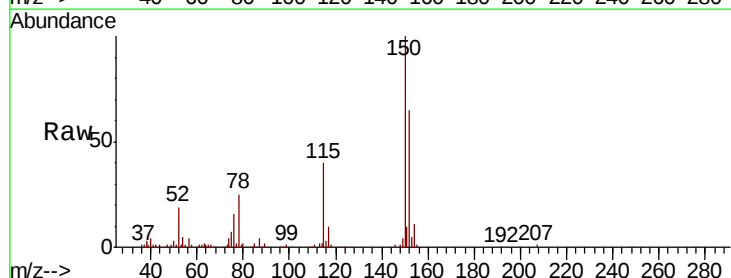
Instrument :
MSVOA_W
ClientSampleId :

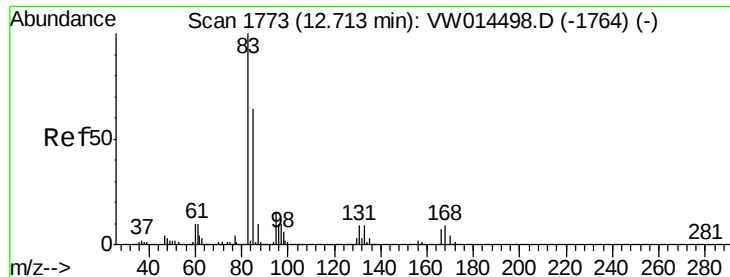
Tot Ion:117 Resp: 516948
Ion Ratio Lower Upper
117 100
82 53.7 44.6 67.0
119 31.0 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.01 min
Lab File: VW014505.D
Acq: 03 Jan 2020 18:12

Tgt Ion:152 Resp: 72563
Ion Ratio Lower Upper
152 100
115 59.3 27.7 83.1
150 159.0 0.0 343.4





#75

1,1,2,2-Tetrachloroethane

Concen: 1.251 ug/l

RT: 12.71 min Scan# 1772

Delta R.T. -0.01 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

Instrument :

MSVOA_W

ClientSampleId :

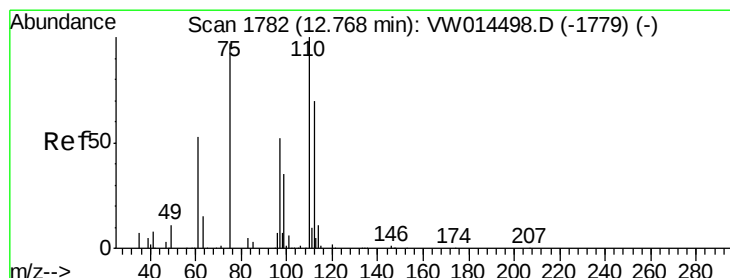
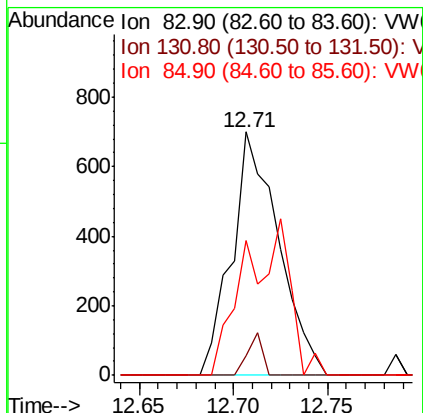
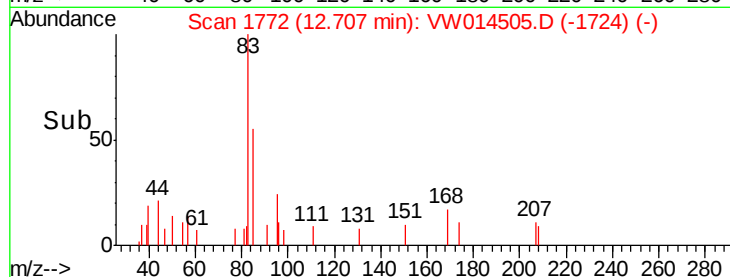
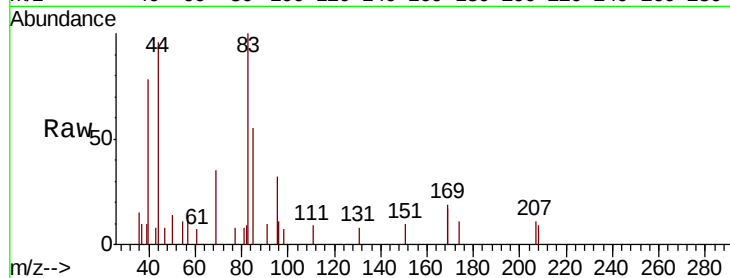
Tot Ion: 83 Resp: 1202

Ion Ratio Lower Upper

83 100

131 5.3 5.1 15.4

85 62.0 31.9 95.7



#76

1,2,3-Trichloropropane

Concen: 91.814 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW014505.D

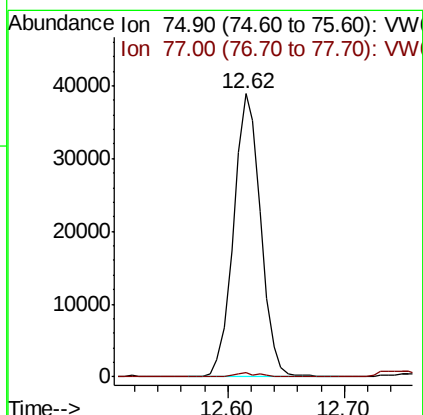
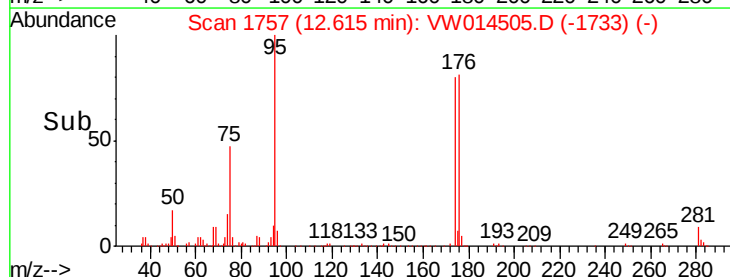
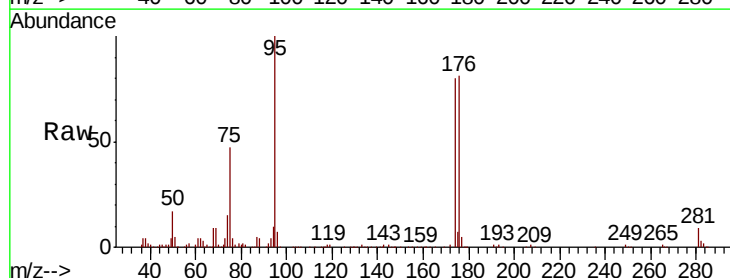
Acq: 03 Jan 2020 18:12

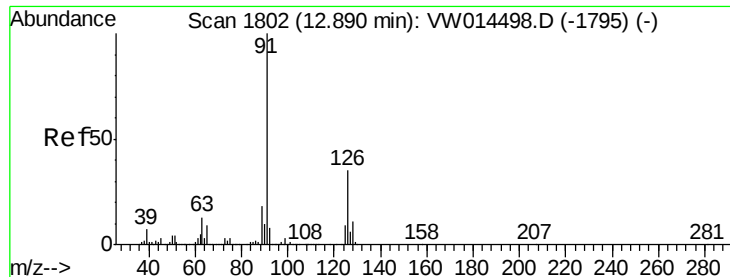
Tgt Ion: 75 Resp: 62991

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#





#79

2-Chlorotoluene

Concen: 1.004 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

Instrument :

MSVOA_W

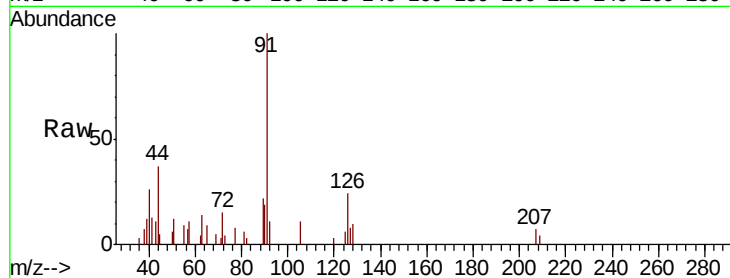
ClientSampled :

Tot Ion: 91 Resp: 3576

Ion Ratio Lower Upper

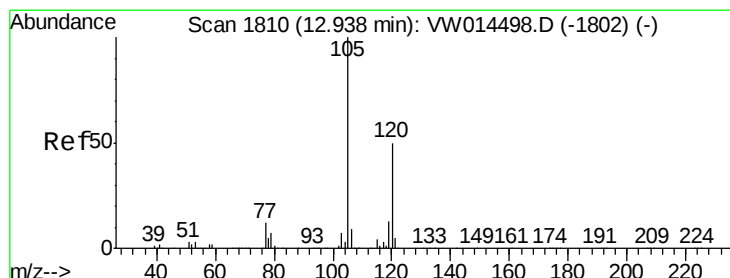
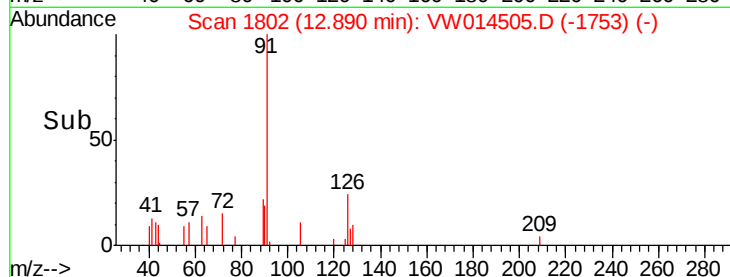
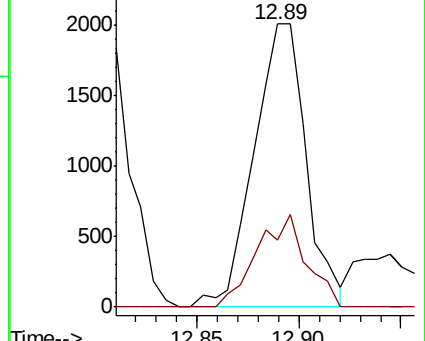
91 100

126 31.0 17.1 51.2



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 1.001 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VW014505.D

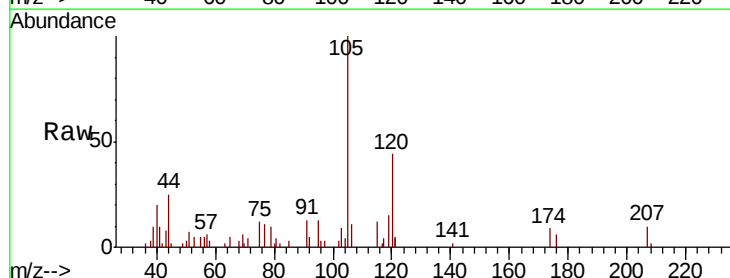
Acq: 03 Jan 2020 18:12

Tgt Ion:105 Resp: 4476

Ion Ratio Lower Upper

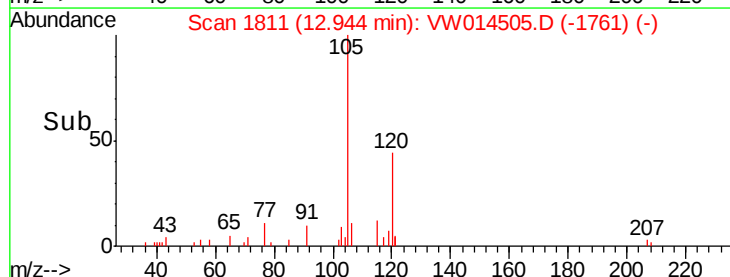
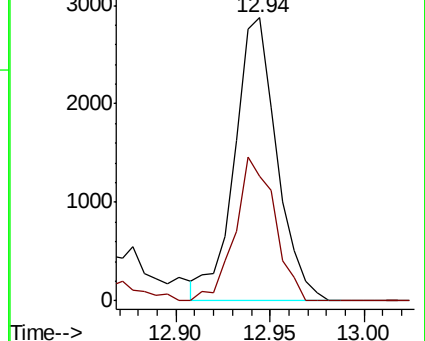
105 100

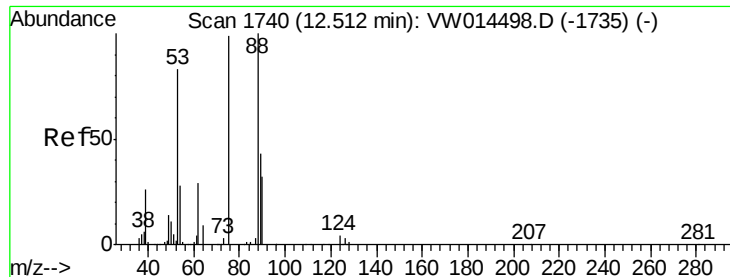
120 47.3 25.2 75.6



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: 204.565 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW014505.D

Acq: 03 Jan 2020 18:12

Instrument :

MSVOA_W

ClientSampled :

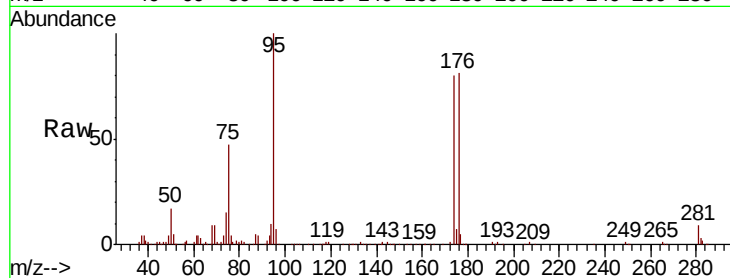
Tot Ion: 75 Resp: 62991

Ion Ratio Lower Upper

75 100

53 0.0 70.9 106.3#

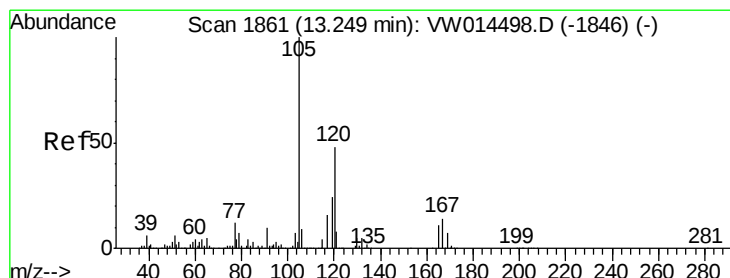
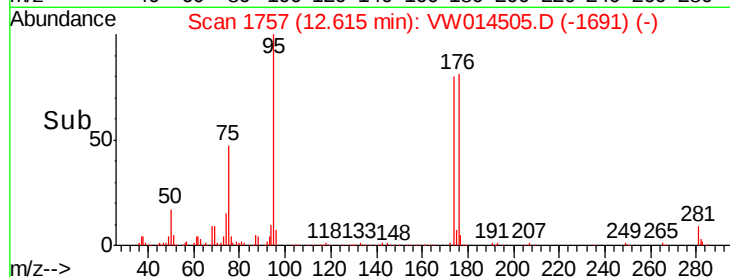
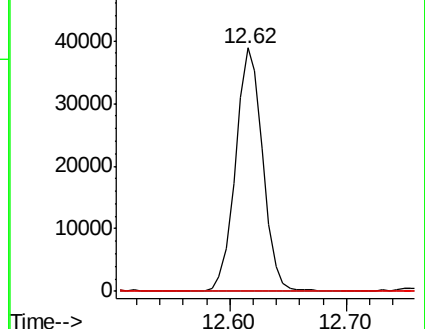
89 0.0 35.8 53.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.199 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VW014505.D

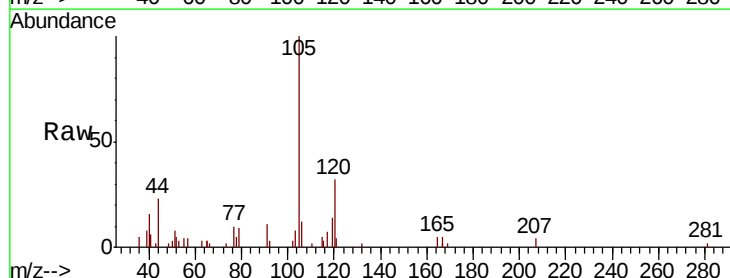
Acq: 03 Jan 2020 18:12

Tgt Ion: 105 Resp: 5334

Ion Ratio Lower Upper

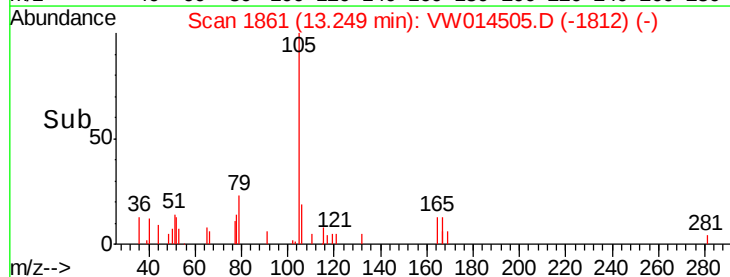
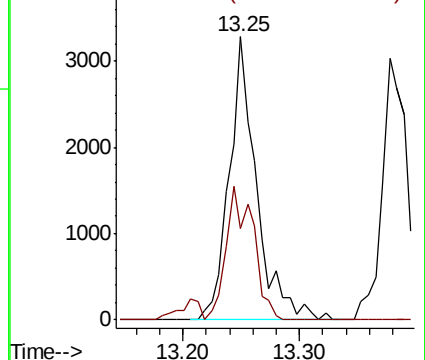
105 100

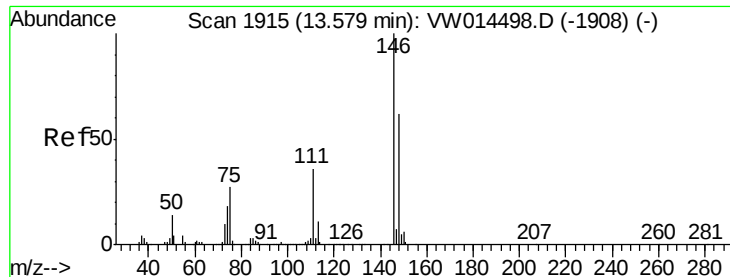
120 46.9 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

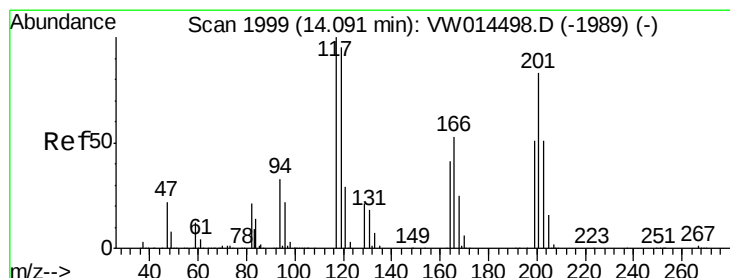
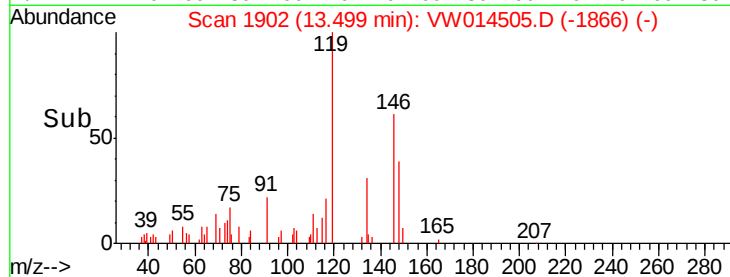
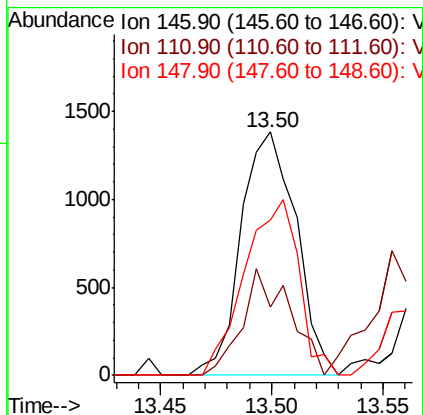
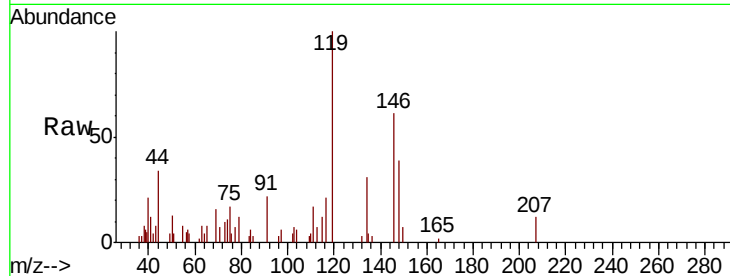




#88
 1,4-Dichlorobenzene
 Concen: 1.001 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.08 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

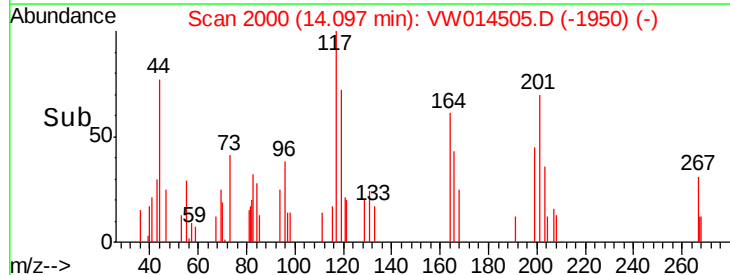
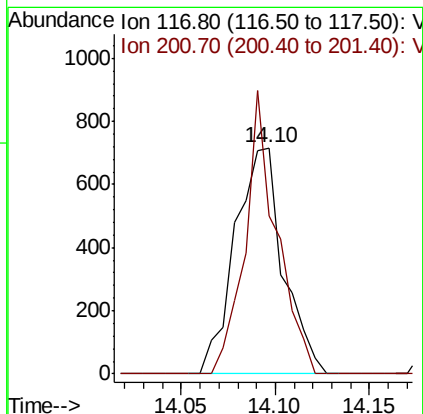
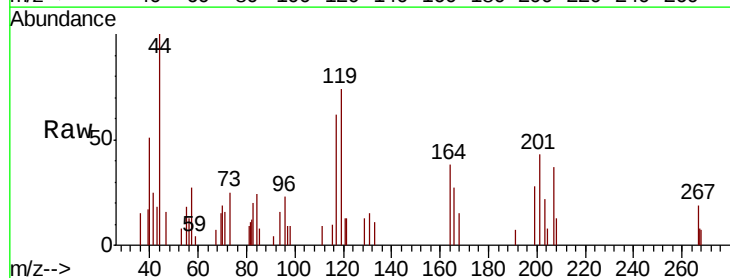
Instrument :
 MSVOA_W
 ClientSampleId :

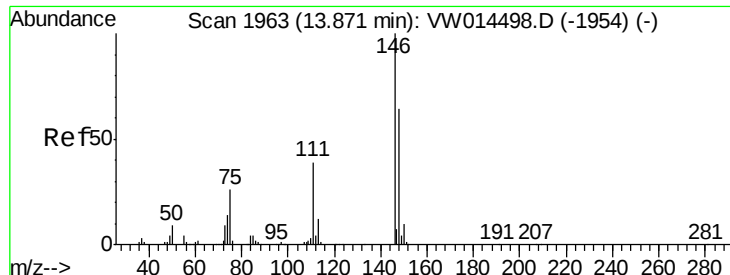
Tot Ion:146 Resp: 2376
 Ion Ratio Lower Upper
 146 100
 111 37.8 18.7 56.1
 148 70.9 31.7 95.1



#90
 Hexachloroethane
 Concen: 1.468 ug/l
 RT: 14.10 min Scan# 2000
 Delta R.T. 0.01 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

Tgt Ion:117 Resp: 1266
 Ion Ratio Lower Upper
 117 100
 201 82.1 43.0 128.8

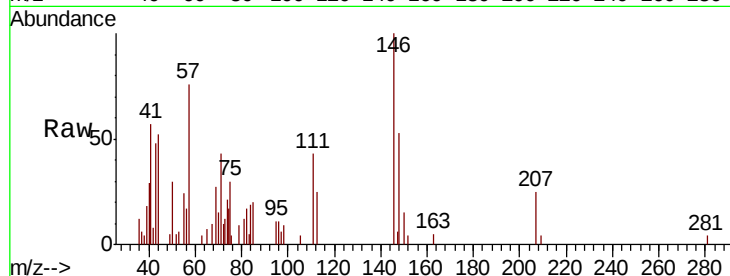




#91
 1,2-Dichlorobenzene
 Concen: 1.157 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.8	20.4	61.3
148	68.6	32.3	96.8

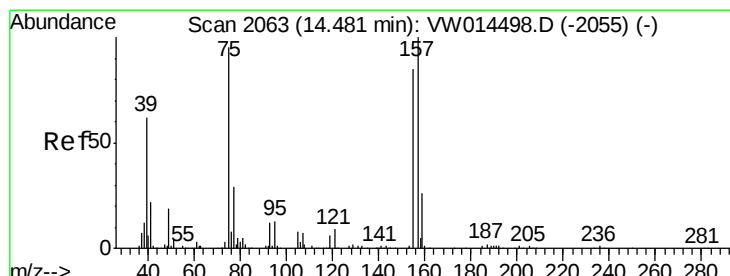
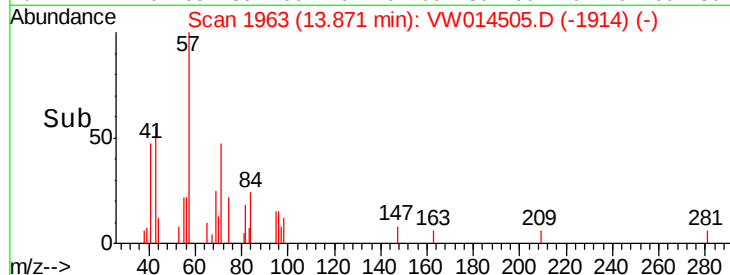
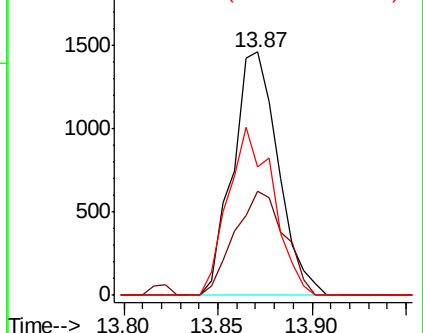


Abundance

Ion 145.90 (145.60 to 146.60): V

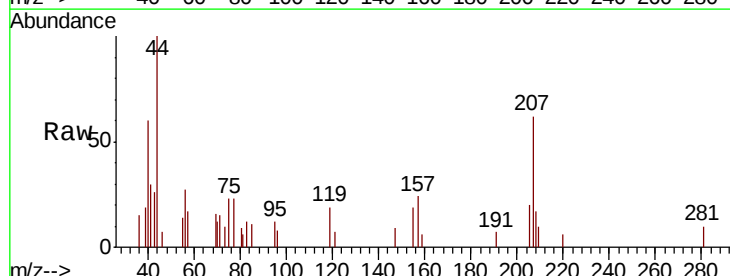
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.674 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. -0.00 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	55.8	45.8	137.4
157	59.0	58.1	174.2

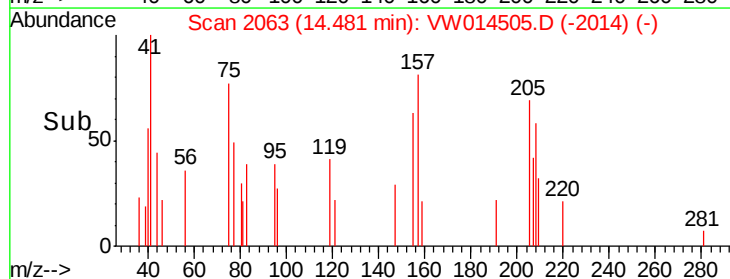
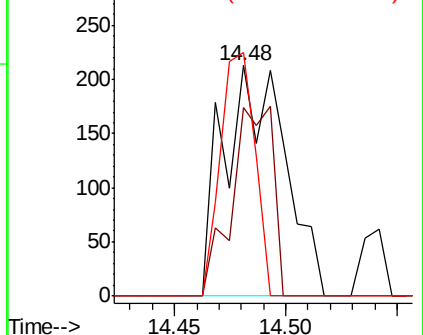


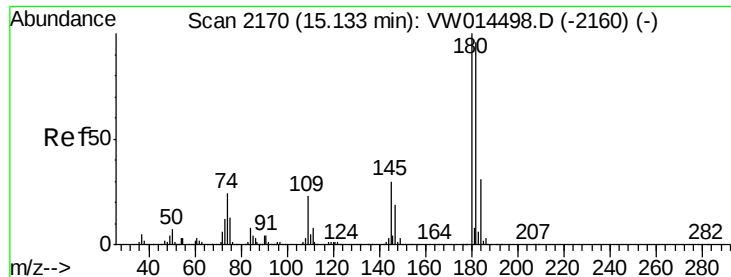
Abundance

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

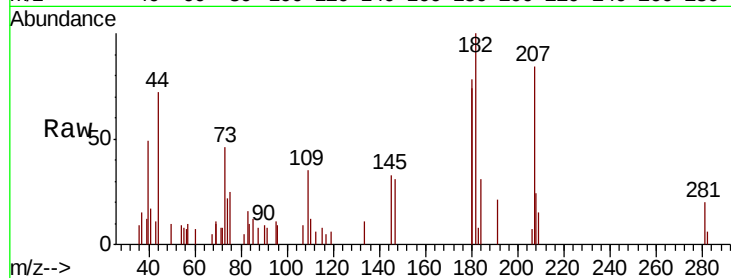




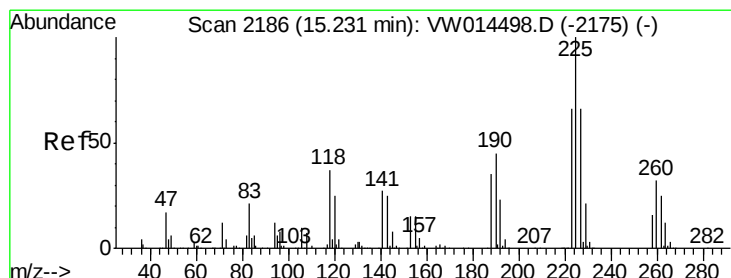
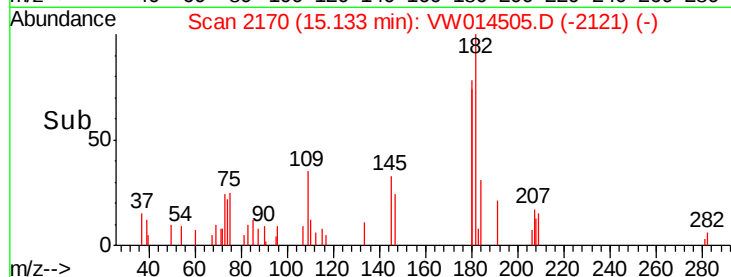
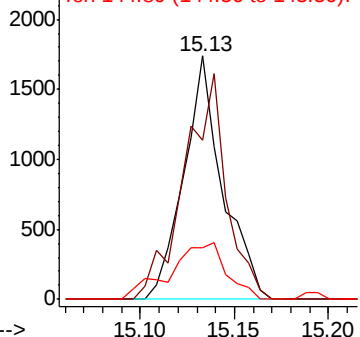
#93
 1,2,4-Trichlorobenzene
 Concen: 1.735 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.2	47.3	141.8
145	33.8	14.7	44.1

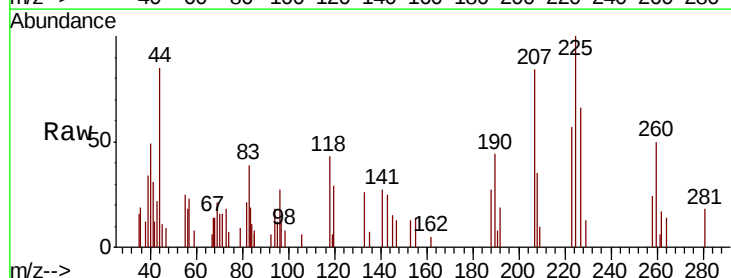


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

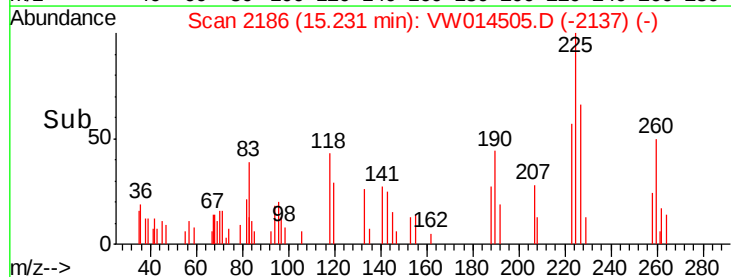
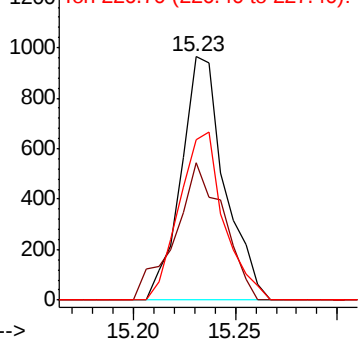


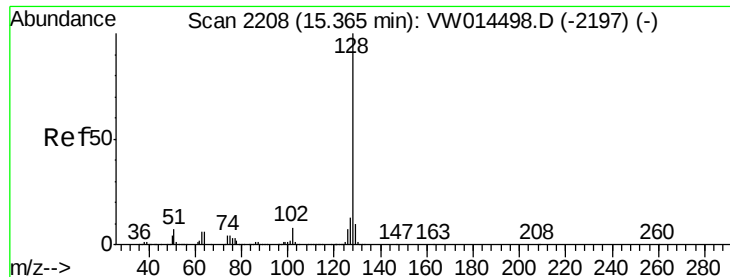
#94
 Hexachlorobutadiene
 Concen: 1.491 ug/l
 RT: 15.23 min Scan# 2186
 Delta R.T. -0.00 min
 Lab File: VW014505.D
 Acq: 03 Jan 2020 18:12

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	32.4	97.2
227	70.9	32.6	97.8



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

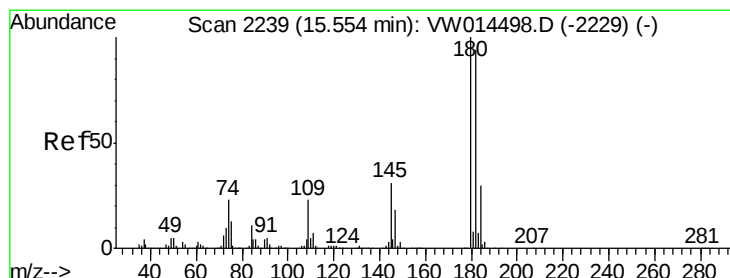
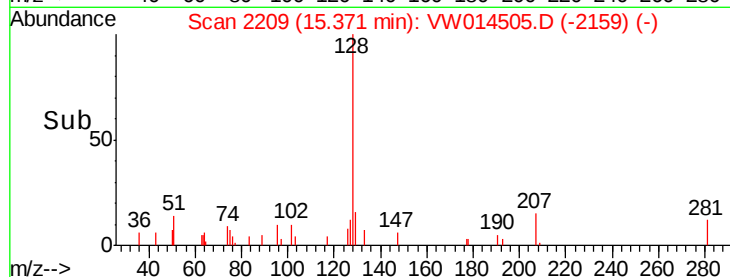
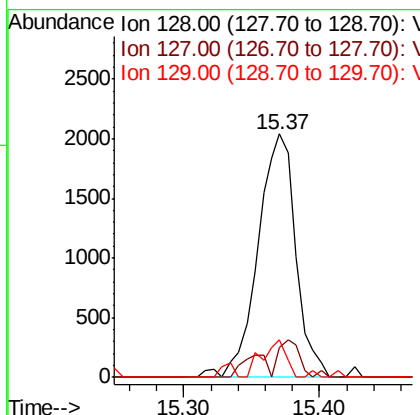
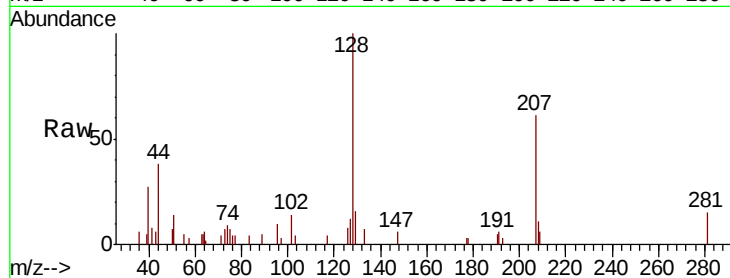




#95
Naphthalene
Concen: 1.627 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VW014505.D
Acq: 03 Jan 2020 18:12

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:128 Resp: 3961
Ion Ratio Lower Upper
128 100
127 8.2 10.6 15.8#
129 9.8 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.320 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW014505.D
Acq: 03 Jan 2020 18:12

Tgt Ion:180 Resp: 2886
Ion Ratio Lower Upper
180 100
182 90.2 47.4 142.2
145 45.3 15.5 46.5

