

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW010820\
 Data File : VW014555.D
 Acq On : 08 Jan 2020 12:42
 Operator : SY/VA
 Sample : K6476-04
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 08 13:09:41 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	677038	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	1044337	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	827235	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	333525	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	275868	46.60	ug/l	0.00
Spiked Amount			Recovery	=	93.20%	
35) Dibromofluoromethane	7.88	113	295819	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	10.32	98	1193263	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
62) 4-Bromofluorobenzene	12.62	95	348973	41.31	ug/l	0.00
Spiked Amount			Recovery	=	82.62%	

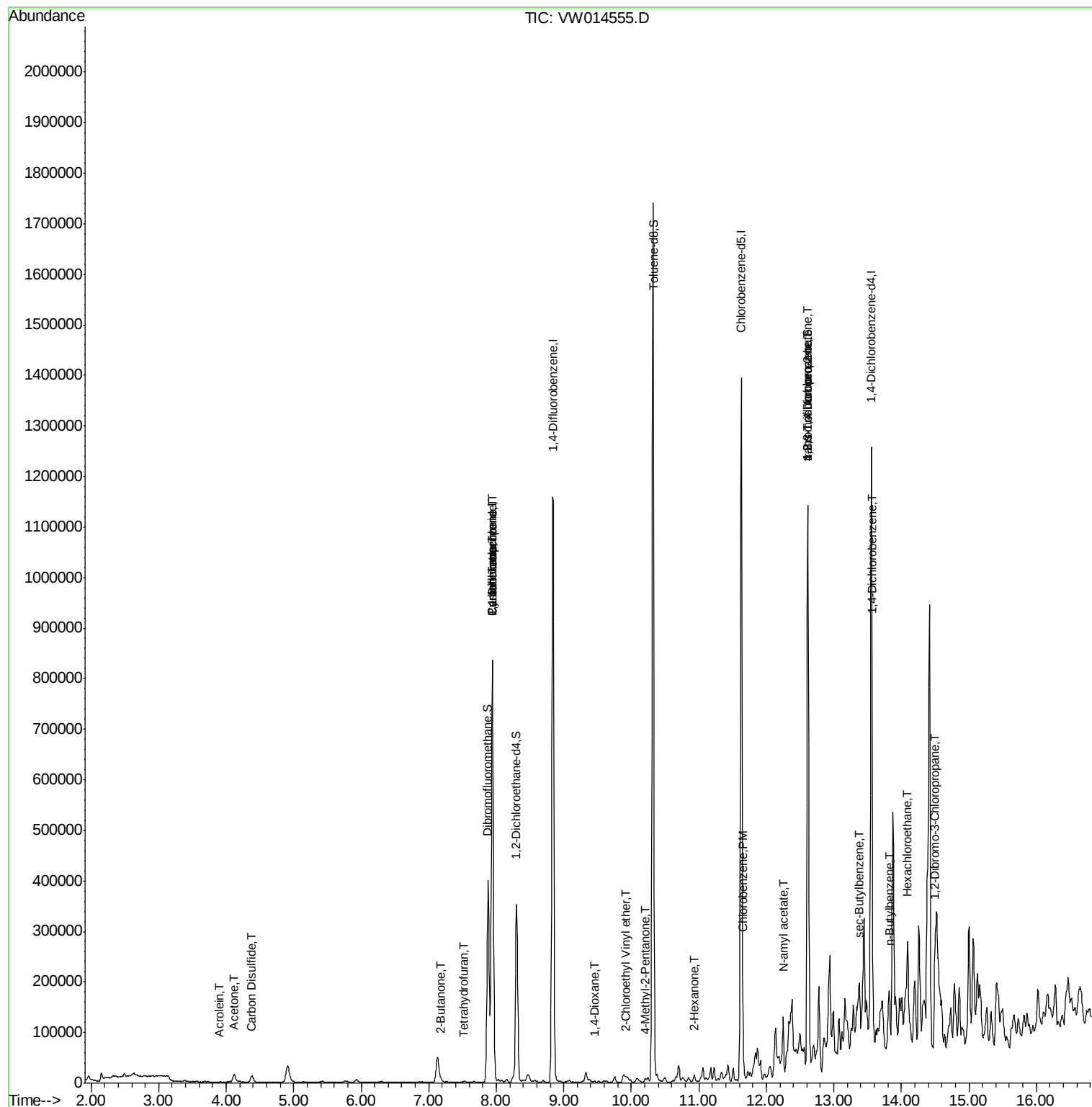
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.14	59	1410	Below Cal	#	73
13) Acrolein	3.90	56	649	1.256	ug/l	96
16) Acetone	4.12	43	29501	17.650	ug/l	97
17) Carbon Disulfide	4.37	76	23739	1.169	ug/l	99
20) Methylene Chloride	4.91	84	30006	Below Cal		94
25) 2-Butanone	7.18	43	5180	2.415	ug/l #	80
29) Tetrahydrofuran	7.52	42	1492	1.123	ug/l	96
31) Cyclohexane	7.95	56	13421	1.062	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	46181	4.587	ug/l #	49
38) Carbon Tetrachloride	7.95	117	58457	6.693	ug/l #	17
49) 1,4-Dioxane	9.45	88	87	1.348	ug/l #	1
51) 4-Methyl-2-Pentanone	10.20	43	6374	1.480	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.92	63	5310	2.666	ug/l	95
59) 2-Hexanone	10.93	43	5184	1.747	ug/l #	25
65) Chlorobenzene	11.66	112	20586	1.215	ug/l #	86
74) N-amyl acetate	12.25	43	21209	3.865	ug/l #	60
76) 1,2,3-Trichloropropane	12.62	75	165833	52.588	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	165833	117.169	ug/l #	15
85) sec-Butylbenzene	13.38	105	49450	1.986	ug/l #	55
88) 1,4-Dichlorobenzene	13.57	146	11827	1.084	ug/l #	51
89) n-Butylbenzene	13.82	91	57356	2.721	ug/l	92
90) Hexachloroethane	14.10	117	6941	1.751	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1079	1.543	ug/l #	3

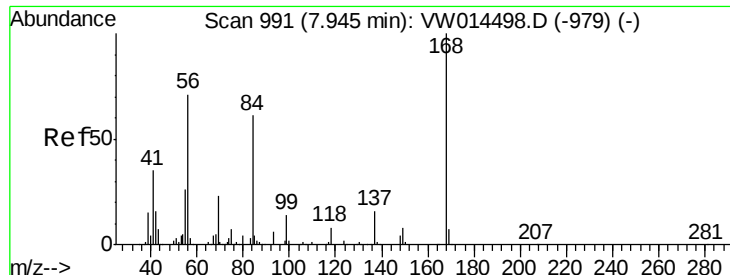
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW014555.D

Acq: 08 Jan 2020 12:42

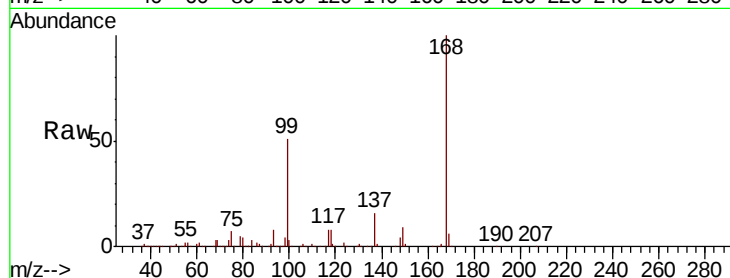
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 677038

Ion Ratio Lower Upper

168 100

99 51.4 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

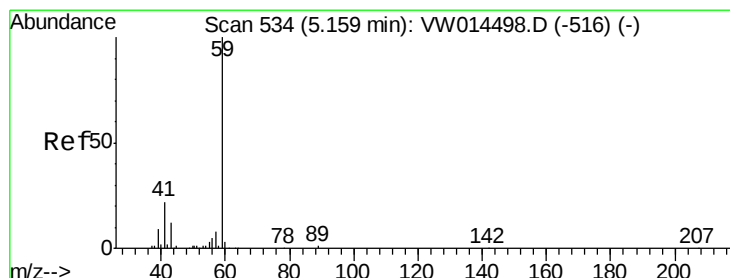
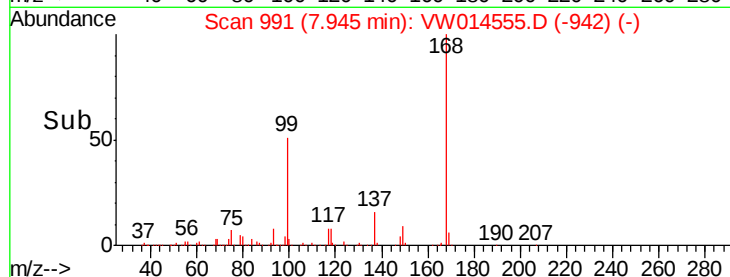
300000

200000

100000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.14 min Scan# 531

Delta R.T. -0.02 min

Lab File: VW014555.D

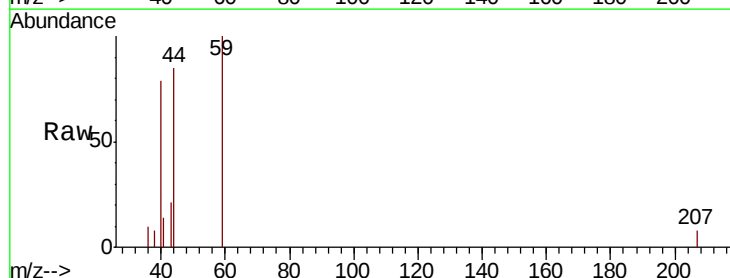
Acq: 08 Jan 2020 12:42

Tgt Ion: 59 Resp: 1410

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

5.14

800

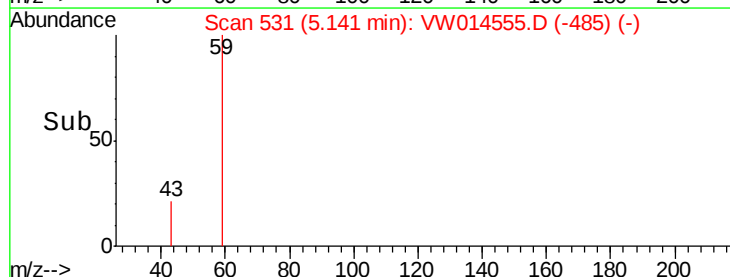
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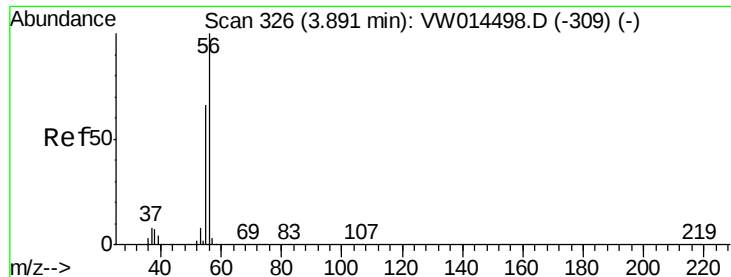
400

200

0

Time--> 5.05 5.10 5.15





#13

Acrolein

Concen: 1.256 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW014555.D

Acq: 08 Jan 2020 12:42

Instrument :

MSVOA_W

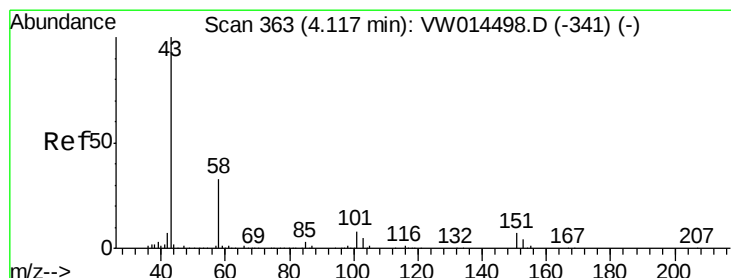
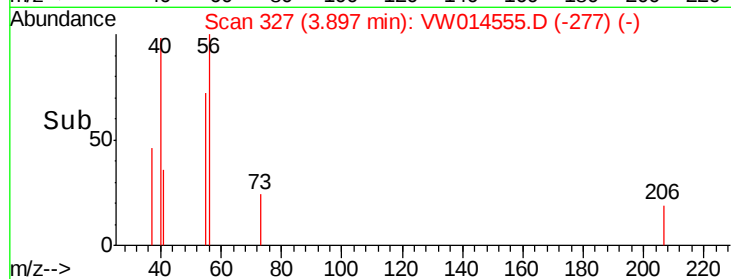
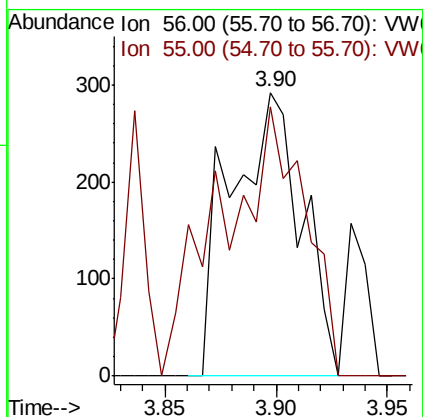
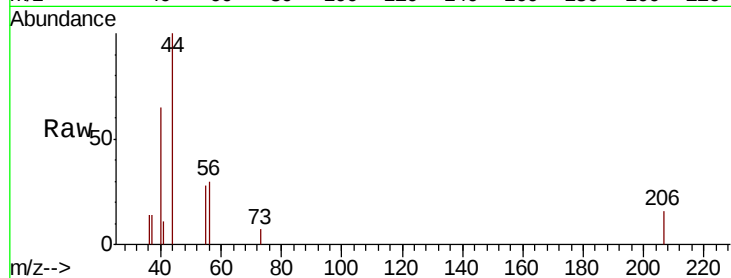
ClientSampleId :

Tot Ion: 56 Resp: 649

Ion Ratio Lower Upper

56 100

55 74.0 56.7 85.1



#16

Acetone

Concen: 17.650 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.00 min

Lab File: VW014555.D

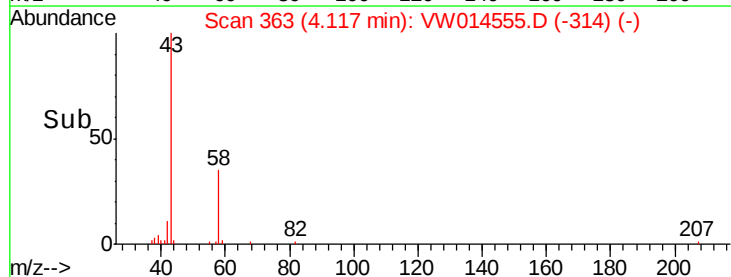
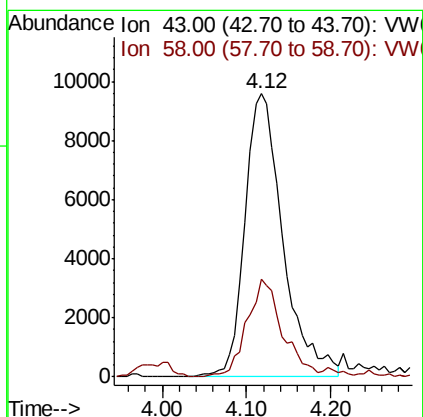
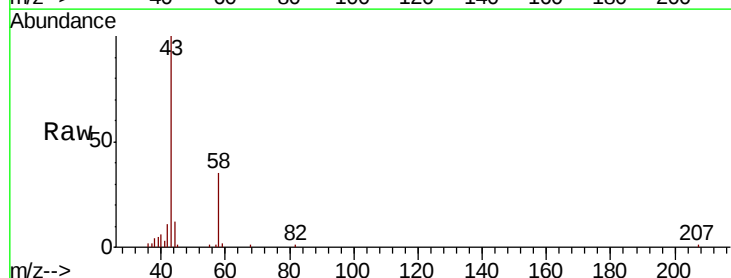
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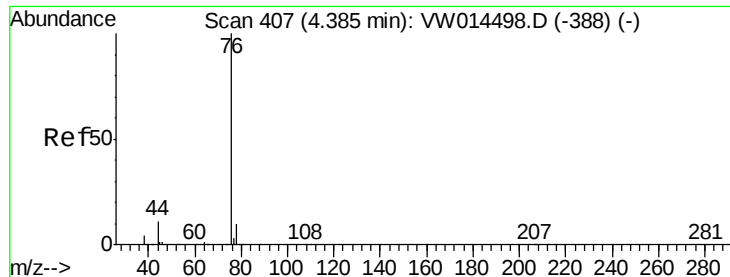
Tgt Ion: 43 Resp: 29501

Ion Ratio Lower Upper

43 100

58 34.8 26.6 39.8

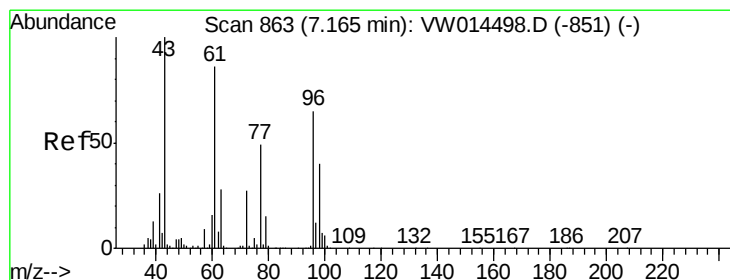
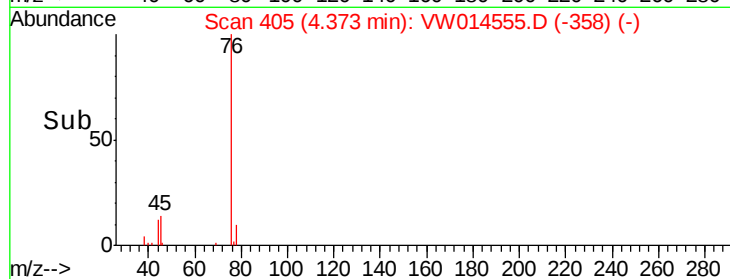
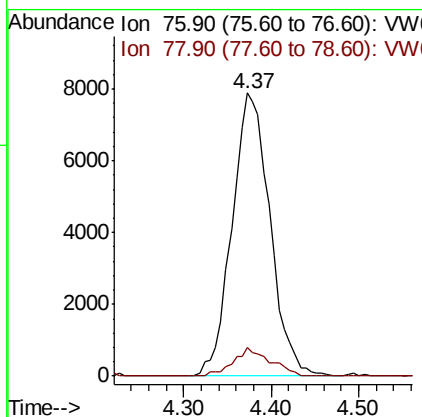
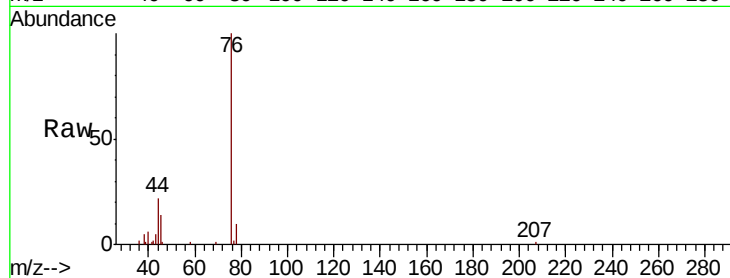




#17
Carbon Disulfide
Concen: 1.169 ug/l
RT: 4.37 min Scan# 405
Delta R.T. -0.01 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

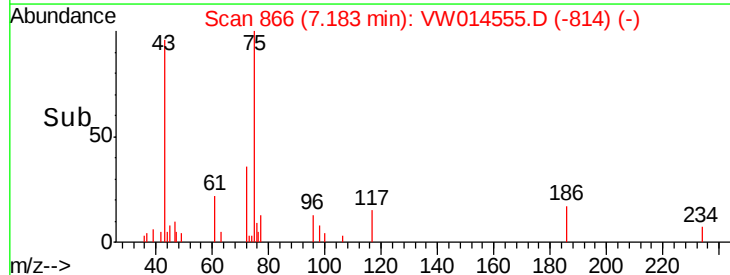
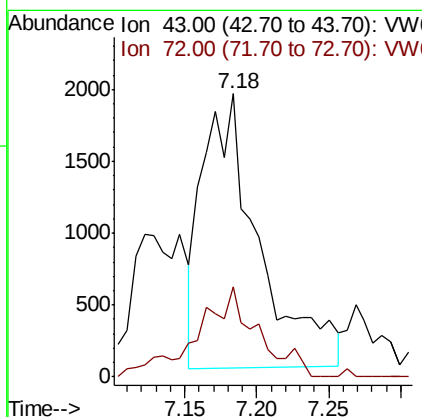
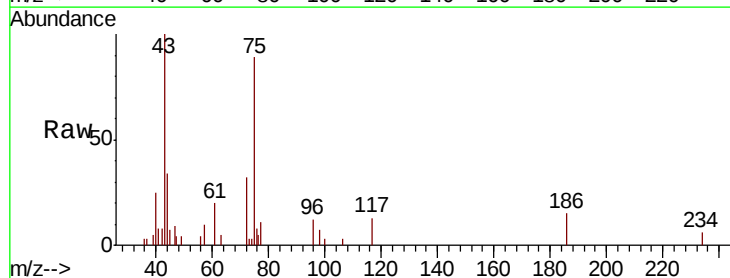
Instrument :
MSVOA_W
ClientSampled :

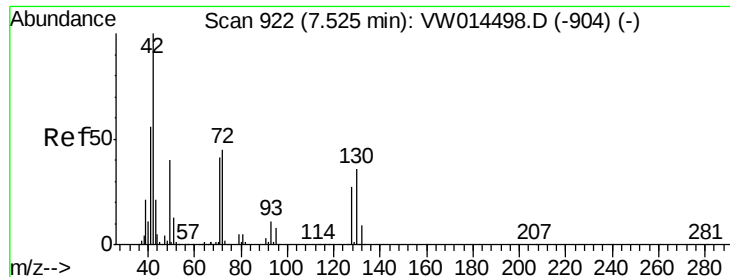
Tot Ion: 76 Resp: 23739
Ion Ratio Lower Upper
76 100
78 10.1 7.8 11.6



#25
2-Butanone
Concen: 2.415 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.02 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

Tgt Ion: 43 Resp: 5180
Ion Ratio Lower Upper
43 100
72 37.7 21.9 32.9#

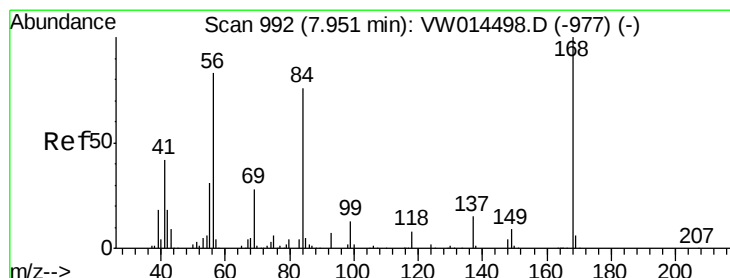
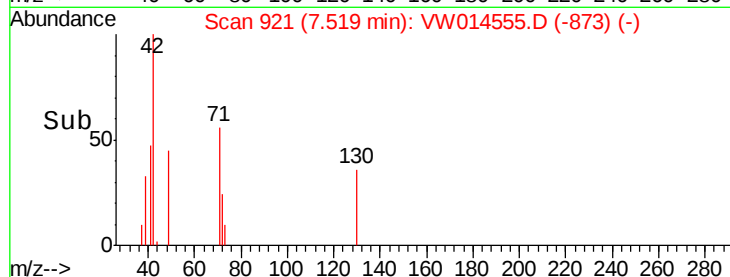
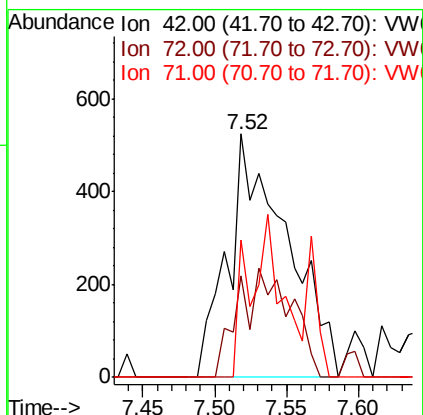
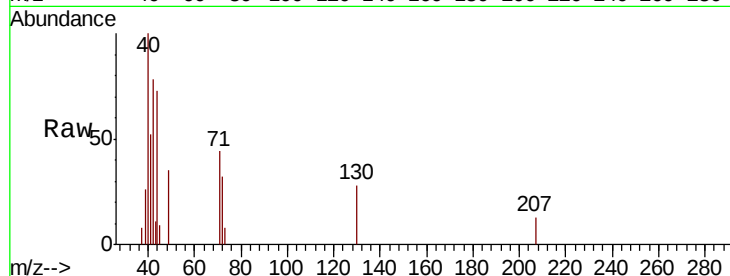




#29
Tetrahydrofuran
Concen: 1.123 ug/l
RT: 7.52 min Scan# 921
Delta R.T. -0.01 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

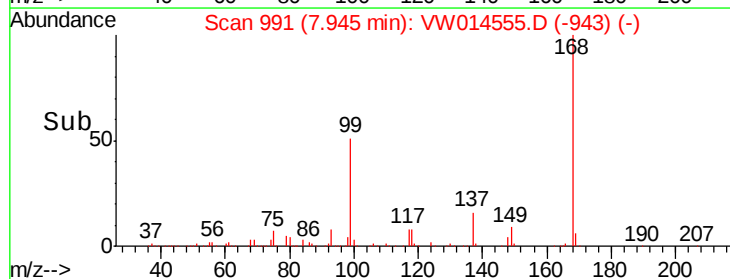
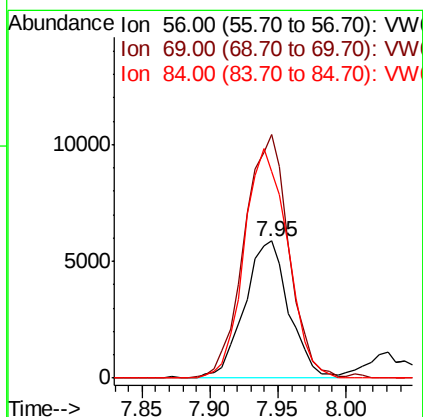
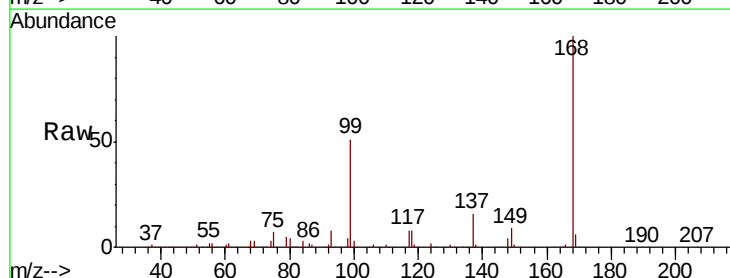
Instrument :
MSVOA_W
ClientSampleId :

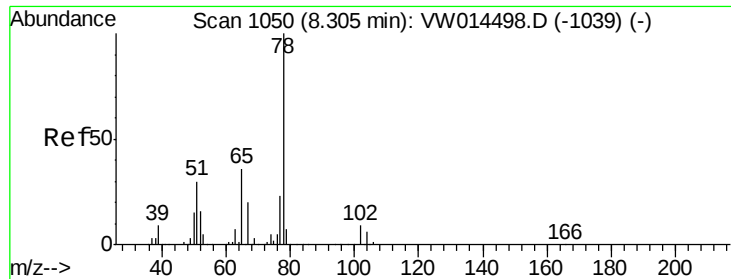
Tot Ion	Ratio	Lower	Upper
42	100		
72	39.9	34.5	51.7
71	37.5	32.0	48.0



#31
Cyclohexane
Concen: 1.062 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

Tgt Ion	Ratio	Lower	Upper
56	100		
69	177.6	26.8	40.2#
84	151.1	71.8	107.6#

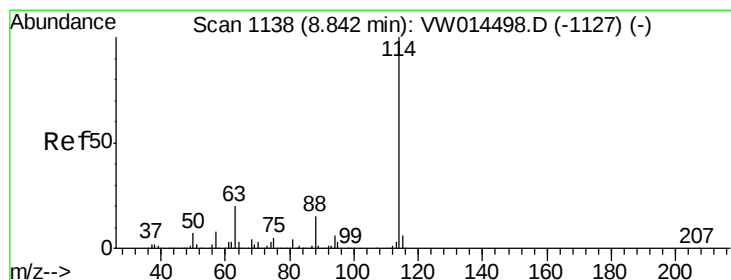
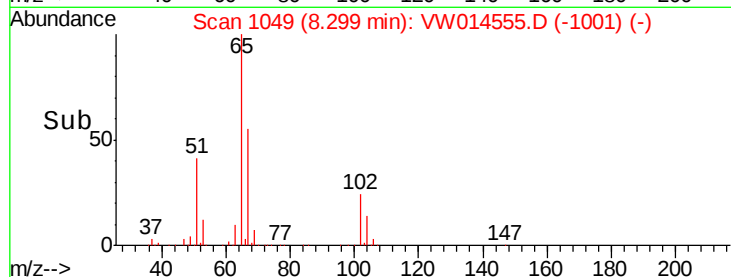
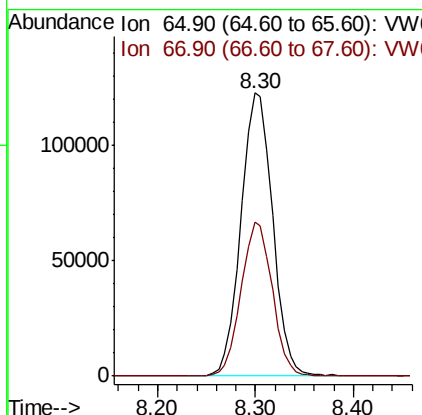
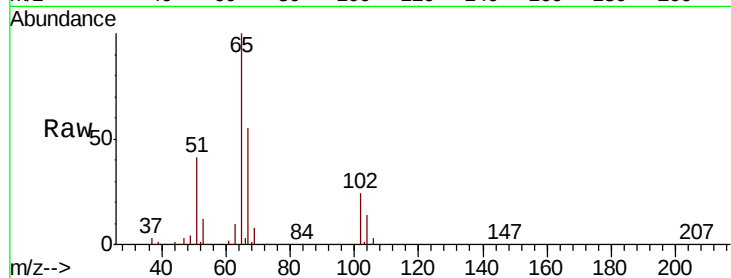




#33
 1,2-Dichloroethane-d4
 Concen: 46.604 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW014555.D
 Acq: 08 Jan 2020 12:42

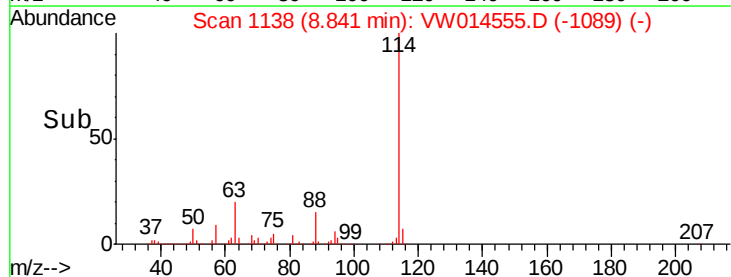
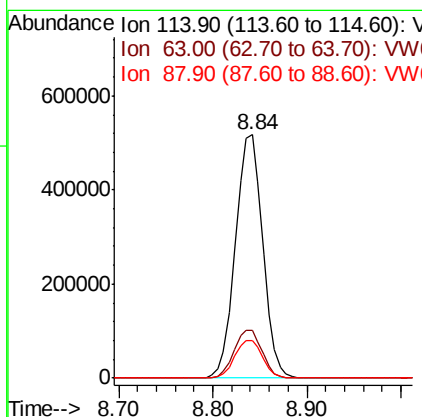
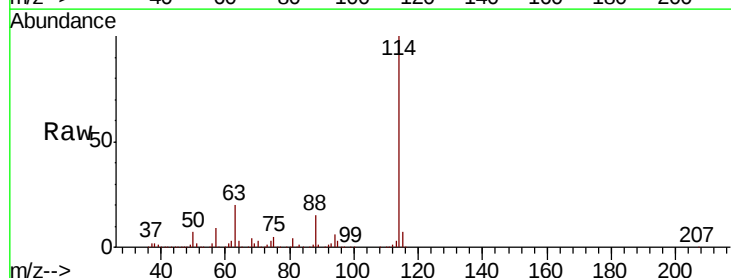
Instrument :
 MSVOA_W
 ClientSampled :

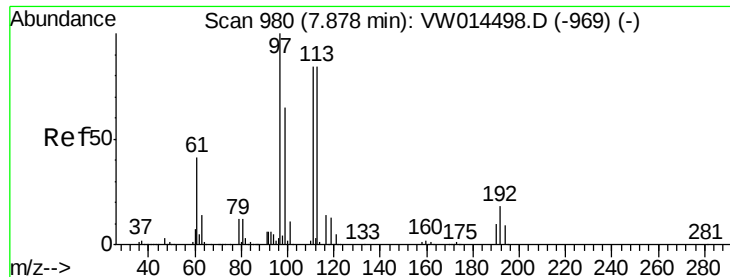
Tot Ion: 65 Resp: 275868
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW014555.D
 Acq: 08 Jan 2020 12:42

Tgt Ion: 114 Resp: 1044337
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.4
 88 15.2 0.0 30.6

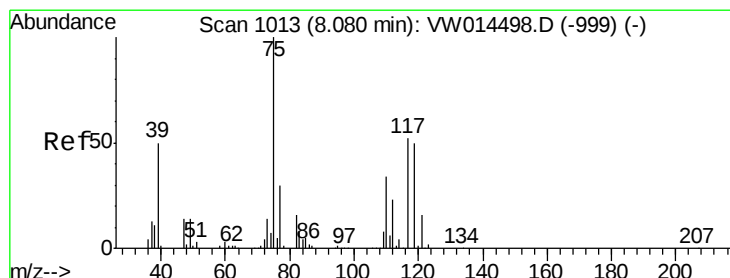
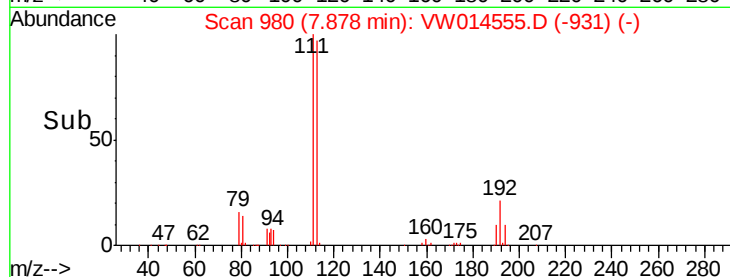
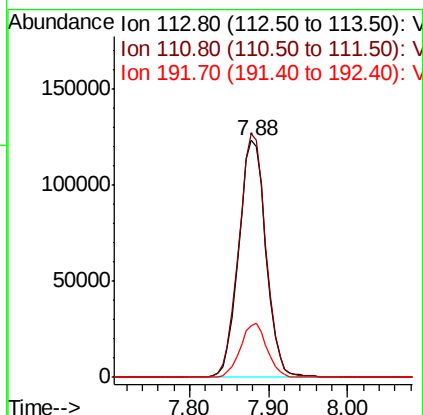
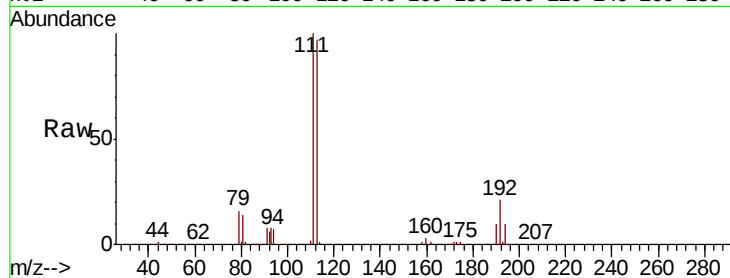




#35
 Dibromofluoromethane
 Concen: 49.563 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW014555.D
 Acq: 08 Jan 2020 12:42

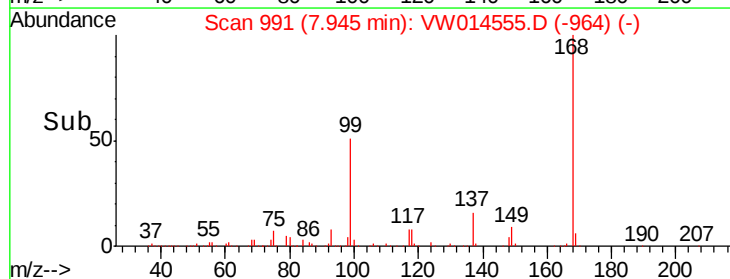
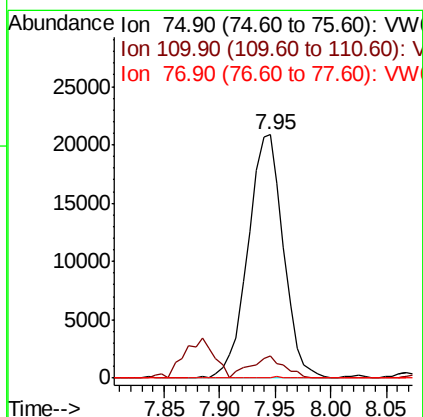
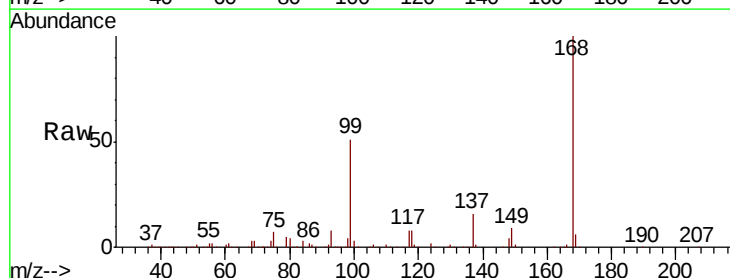
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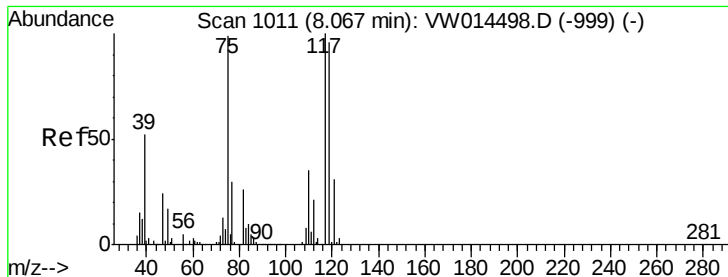
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.4	122.2
192	22.2	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 4.587 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW014555.D
 Acq: 08 Jan 2020 12:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.8	53.5#
77	0.1	24.7	37.1#

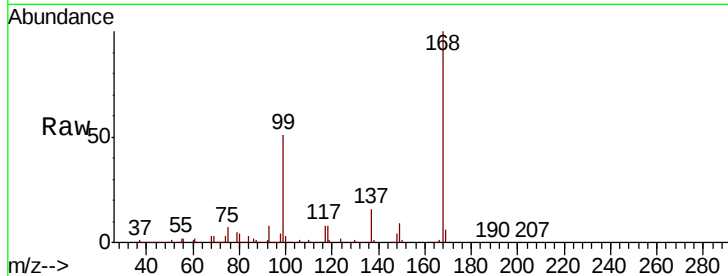




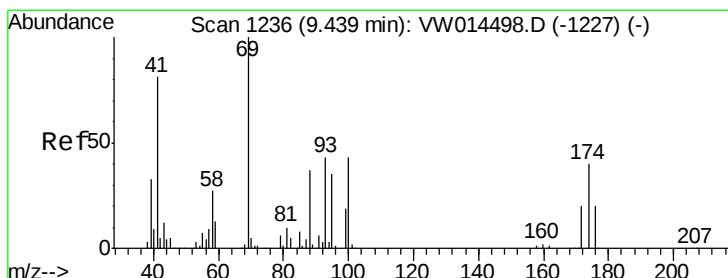
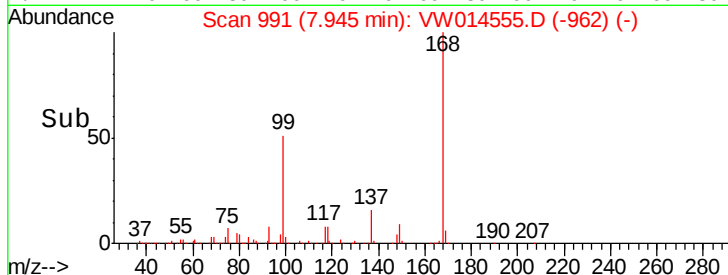
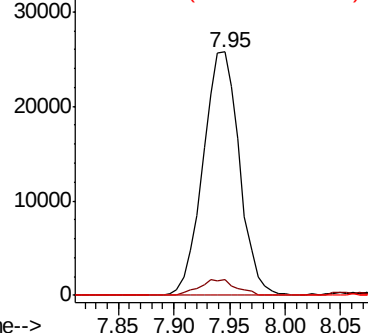
#38
Carbon Tetrachloride
Concen: 6.693 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 58457
Ion Ratio Lower Upper
117 100
119 6.6 77.0 115.6#
121 0.0 24.6 36.8#

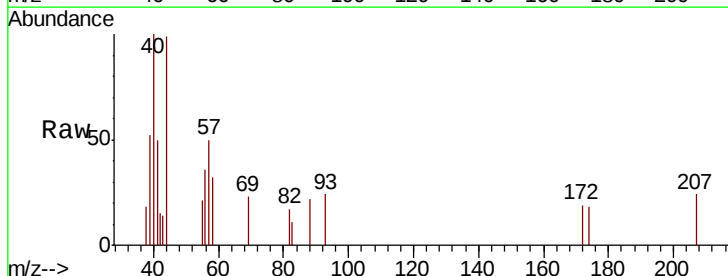


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

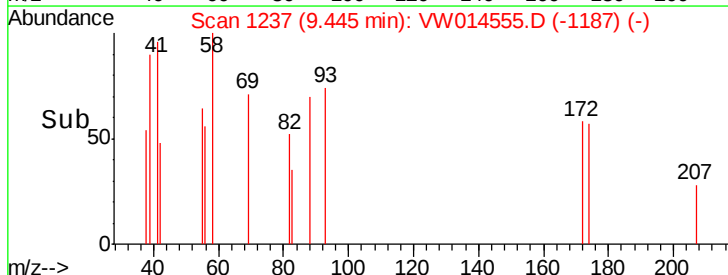
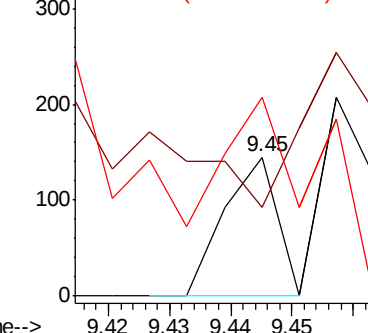


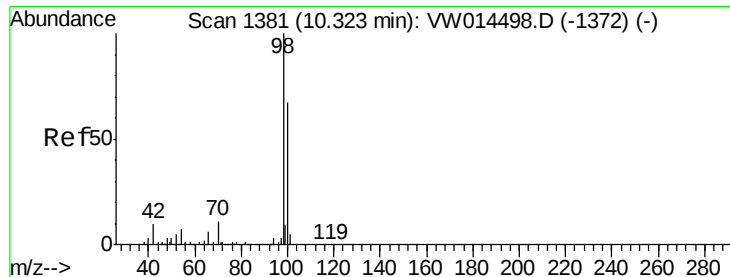
#49
1,4-Dioxane
Concen: 1.348 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.01 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

Tgt Ion: 88 Resp: 87
Ion Ratio Lower Upper
88 100
43 0.0 24.9 37.3#
58 265.5 56.9 85.3#



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

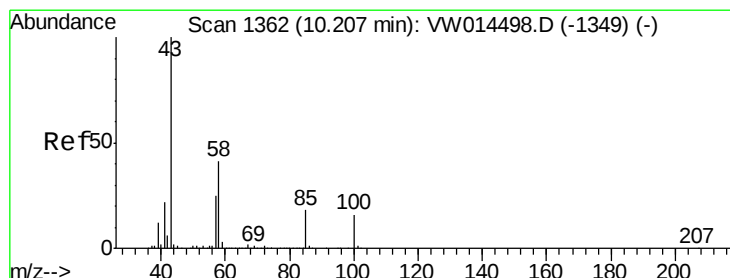
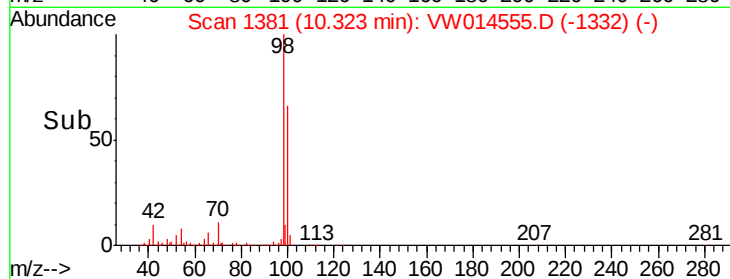
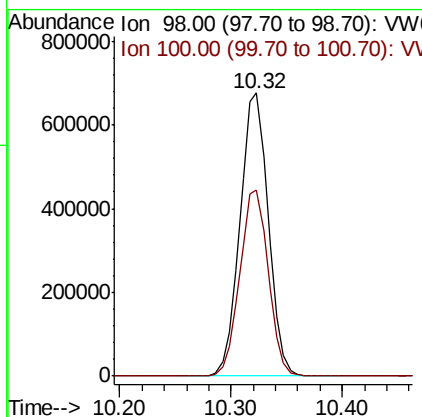
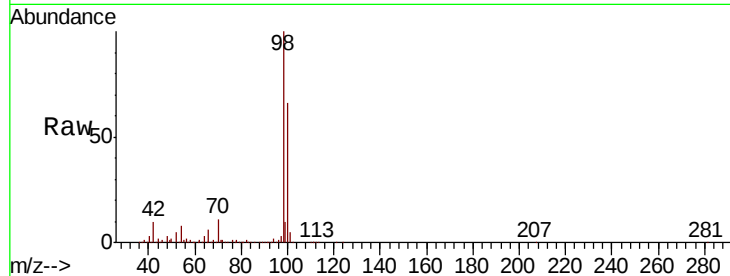




#50
Toluene-d8
Concen: 47.906 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

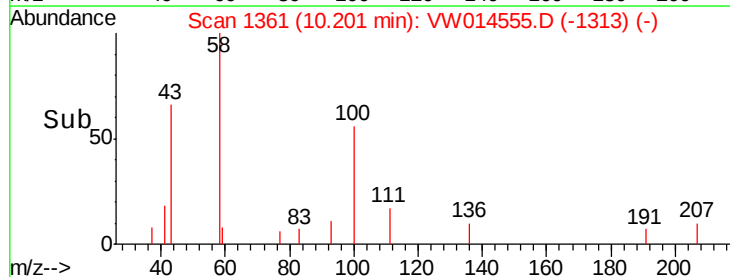
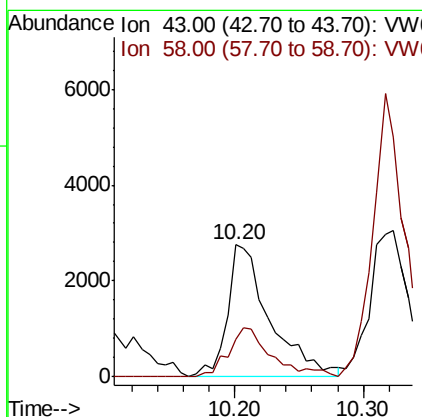
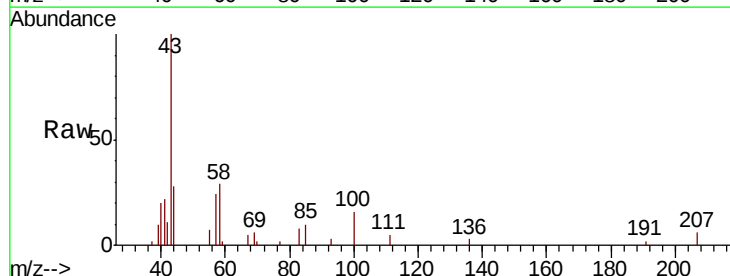
Instrument :
MSVOA_W
ClientSampleId :

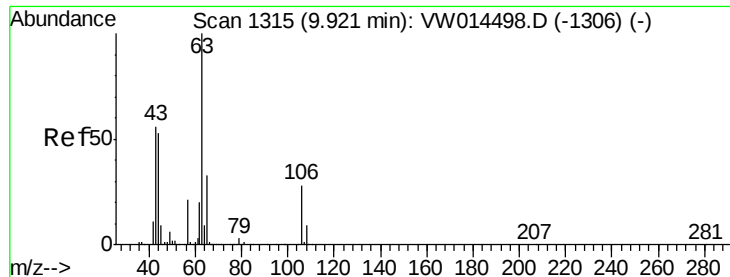
Tot Ion: 98 Resp: 1193263
Ion Ratio Lower Upper
98 100
100 66.3 53.8 80.6



#51
4-Methyl-2-Pentanone
Concen: 1.480 ug/l
RT: 10.20 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

Tgt Ion: 43 Resp: 6374
Ion Ratio Lower Upper
43 100
58 37.9 32.7 49.1

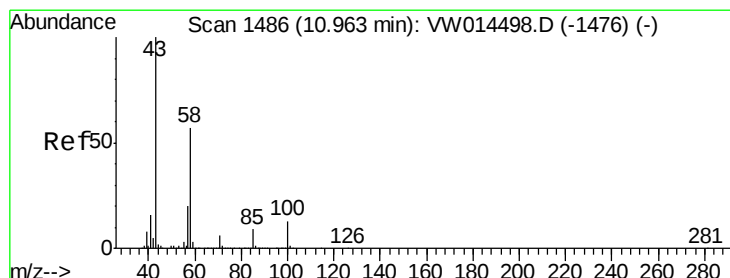
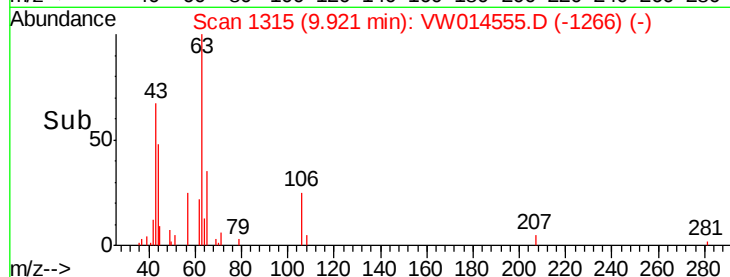
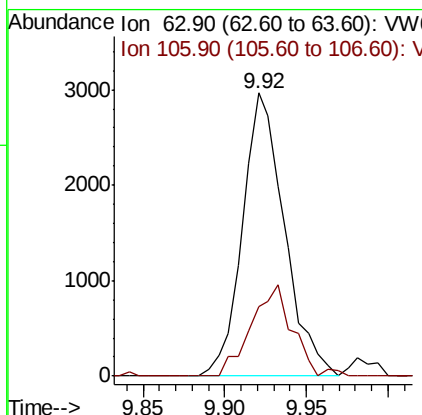
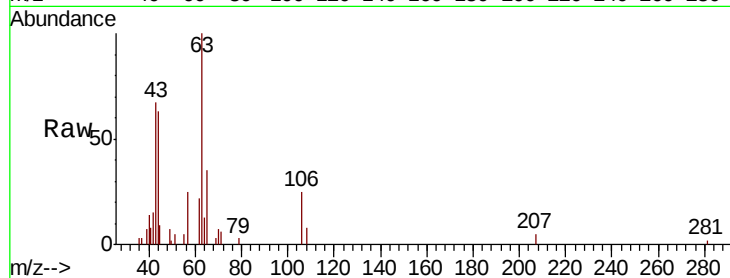




#58
2-Chloroethyl Vinyl ether
Concen: 2.666 ug/l
RT: 9.92 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

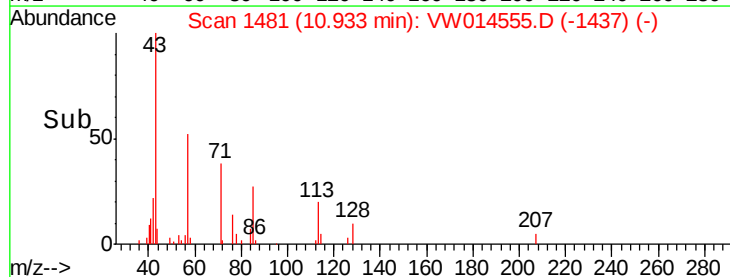
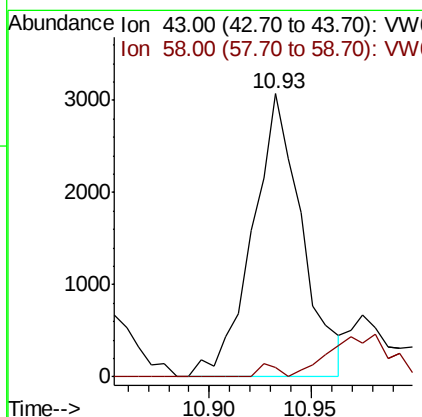
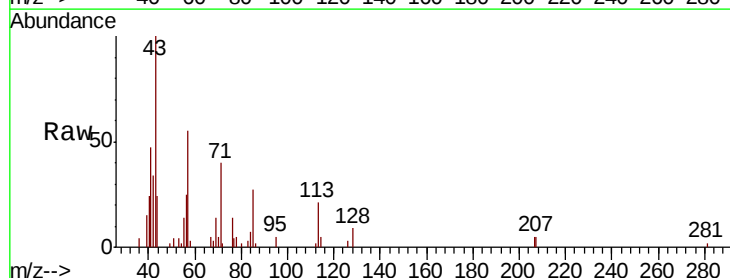
Instrument :
MSVOA_W
ClientSampleId :

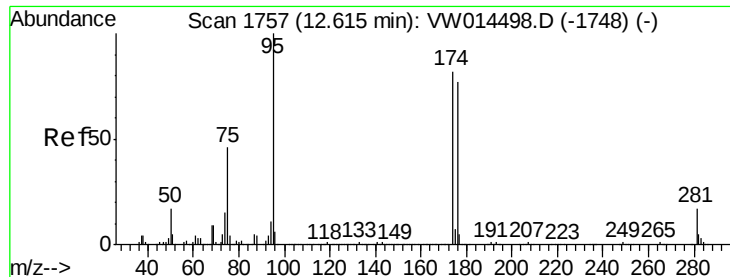
Tot Ion: 63 Resp: 5310
Ion Ratio Lower Upper
63 100
106 31.7 23.0 34.6



#59
2-Hexanone
Concen: 1.747 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.03 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

Tgt Ion: 43 Resp: 5184
Ion Ratio Lower Upper
43 100
58 1.7 28.7 86.3#





#62

4-Bromofluorobenzene

Concen: 41.305 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW014555.D

Acq: 08 Jan 2020 12:42

Instrument :

MSVOA_W

ClientSampleId :

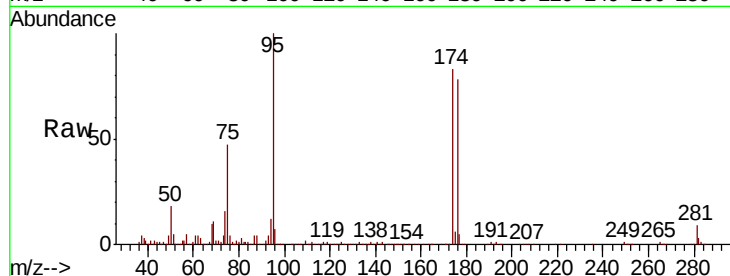
Tot Ion: 95 Resp: 348973

Ion Ratio Lower Upper

95 100

174 86.2 0.0 168.6

176 82.5 0.0 162.0



Abundance Ion 94.90 (94.60 to 95.60): VW014498.D (-1748) (-)

Ion 173.80 (173.50 to 174.50): VW014498.D (-1748) (-)

Ion 175.80 (175.50 to 176.50): VW014498.D (-1748) (-)

12.62

250000

200000

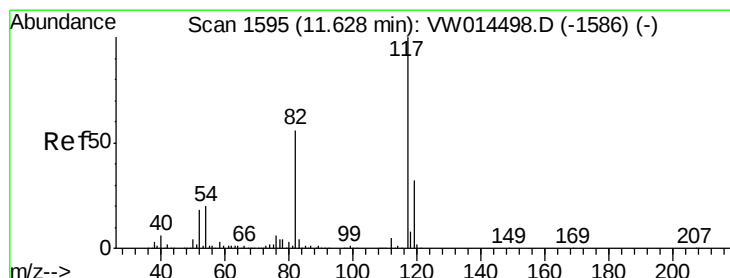
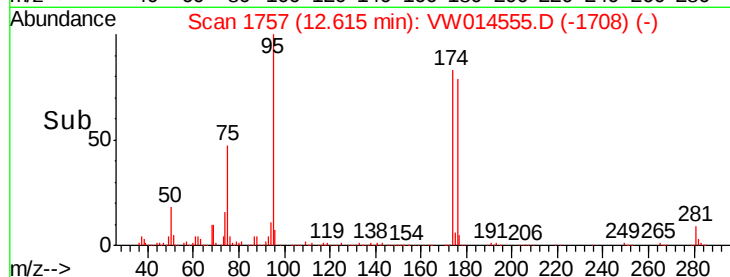
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VW014555.D

Acq: 08 Jan 2020 12:42

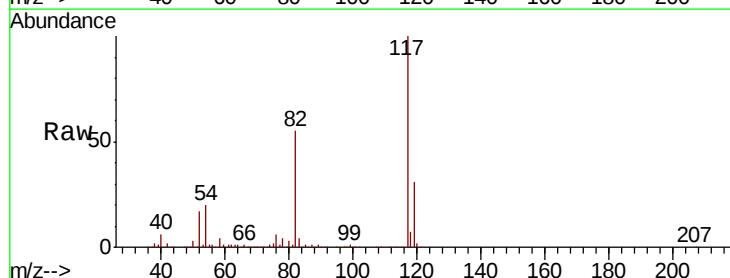
Tgt Ion: 117 Resp: 827235

Ion Ratio Lower Upper

117 100

82 54.7 44.6 67.0

119 31.3 25.7 38.5



Abundance Ion 116.90 (116.60 to 117.60): VW014498.D (-1586) (-)

Ion 82.00 (81.70 to 82.70): VW014498.D (-1586) (-)

Ion 118.90 (118.60 to 119.60): VW014498.D (-1586) (-)

11.63

600000

500000

400000

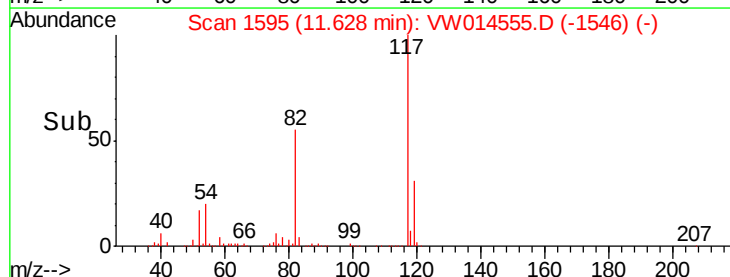
300000

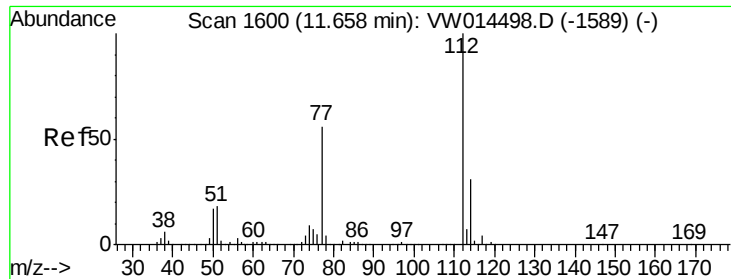
200000

100000

0

Time-->

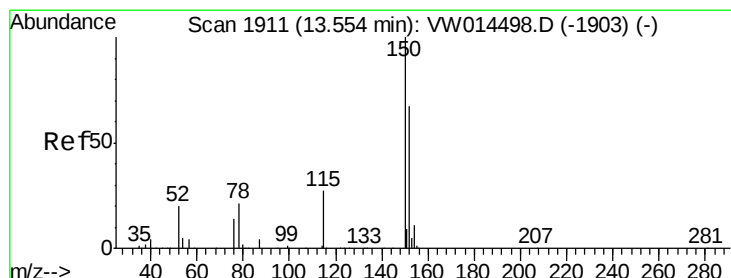
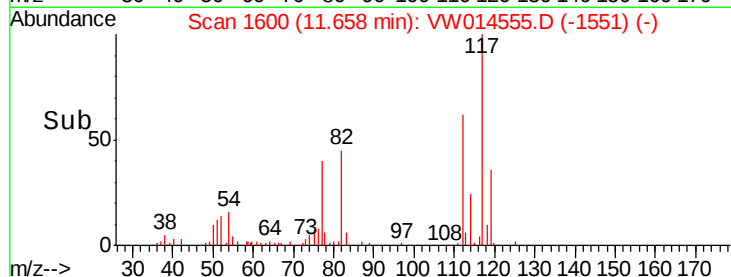
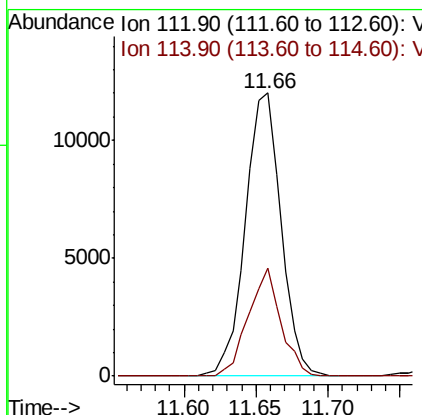
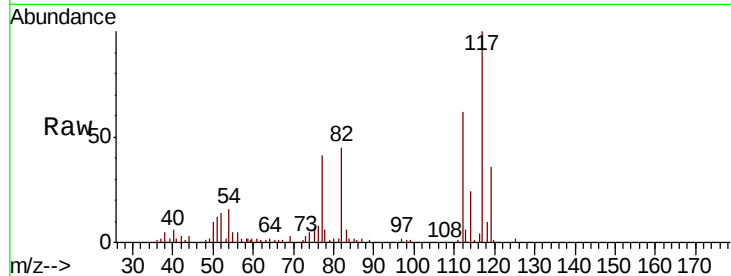




#65
Chlorobenzene
Concen: 1.215 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

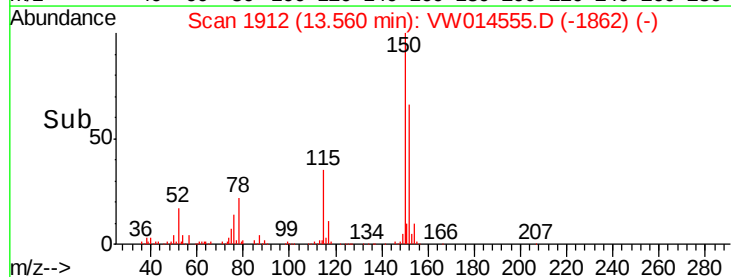
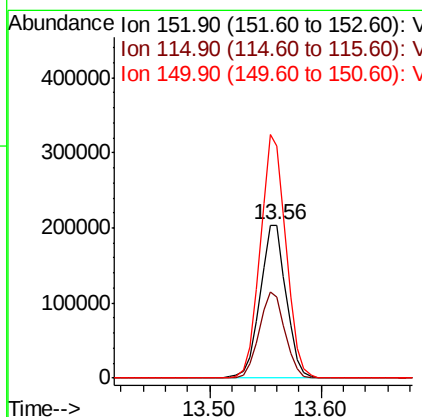
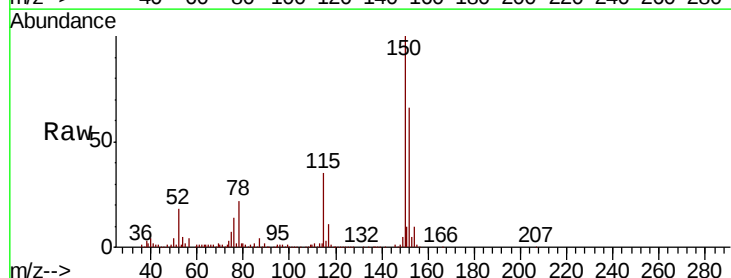
Instrument :
MSVOA_W
ClientSampleId :

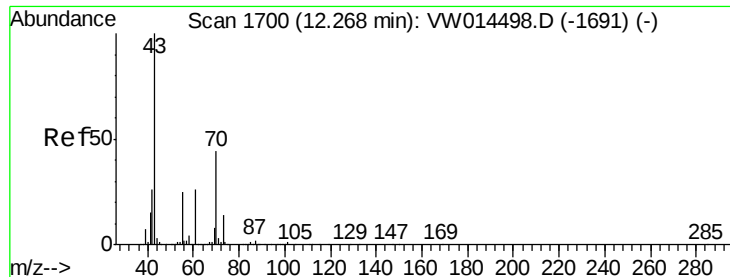
Tot Ion:112 Resp: 20586
Ion Ratio Lower Upper
112 100
114 38.3 24.6 37.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.01 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

Tgt Ion:152 Resp: 333525
Ion Ratio Lower Upper
152 100
115 55.2 27.7 83.1
150 155.5 0.0 343.4





#74

N-amvl acetate

Concen: 3.865 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW014555.D

Acq: 08 Jan 2020 12:42

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 43 Resp: 21209

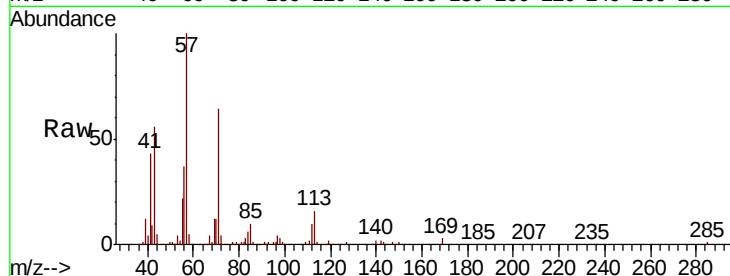
Ion Ratio Lower Upper

43 100

70 27.2 36.5 54.7#

55 0.0 20.9 31.3#

61 0.0 20.7 31.1#

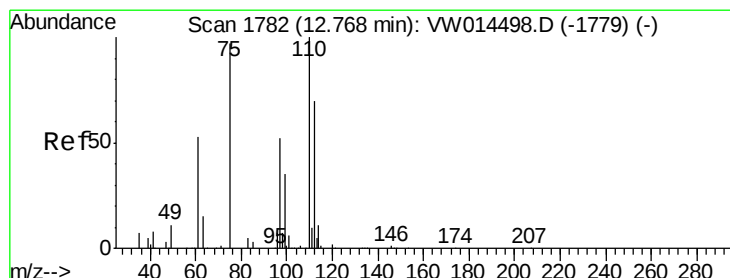
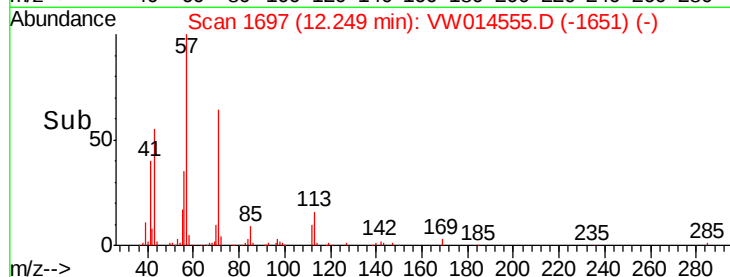
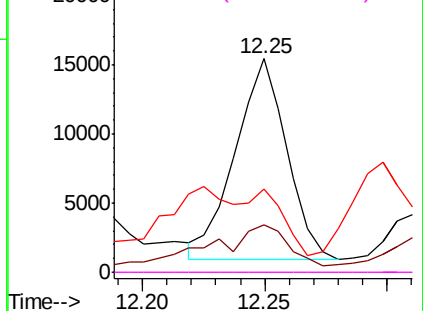


Abundance Ion 43.00 (42.70 to 43.70): VW

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



#76

1,2,3-Trichloropropane

Concen: 52.588 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW014555.D

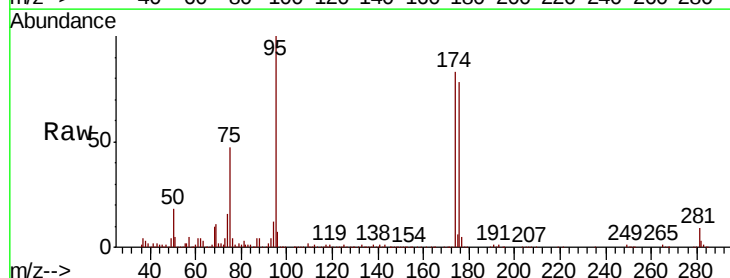
Acq: 08 Jan 2020 12:42

Tgt Ion: 75 Resp: 165833

Ion Ratio Lower Upper

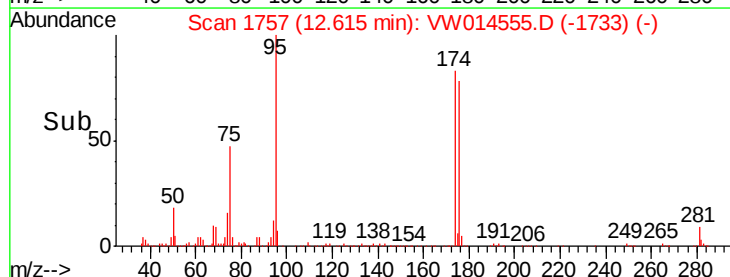
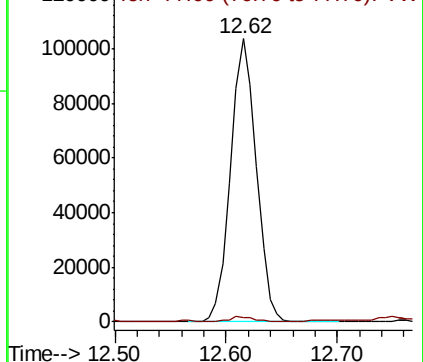
75 100

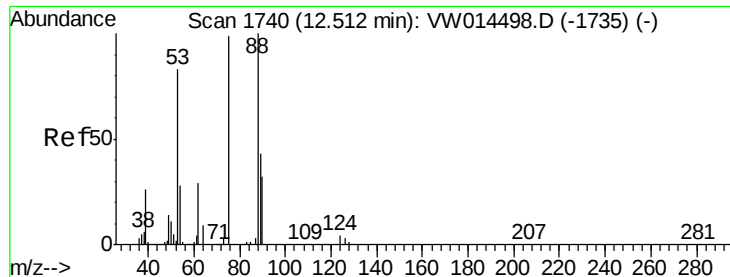
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 117.169 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW014555.D

Acq: 08 Jan 2020 12:42

Instrument :

MSVOA_W

ClientSampled :

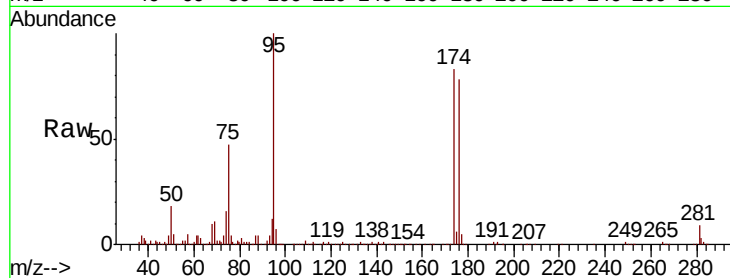
Tot Ion: 75 Resp: 165833

Ion Ratio Lower Upper

75 100

53 1.2 70.9 106.3#

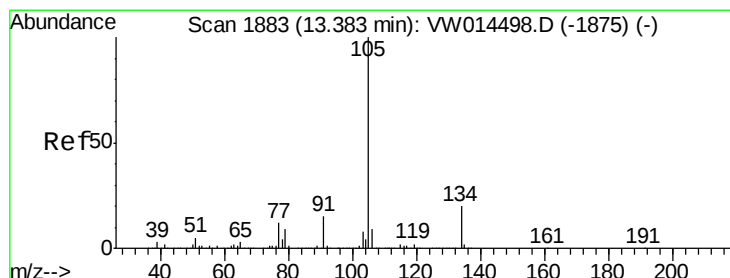
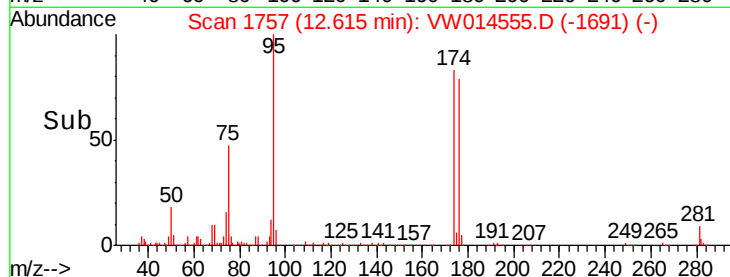
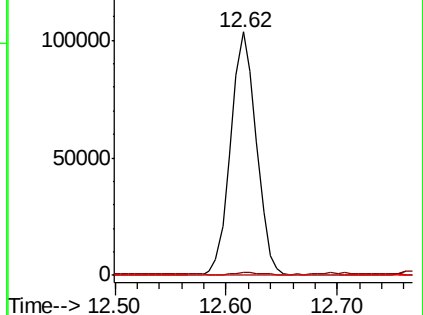
89 0.0 35.8 53.8#



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



#85

sec-Butylbenzene

Concen: 1.986 ug/l

RT: 13.38 min Scan# 1882

Delta R.T. -0.01 min

Lab File: VW014555.D

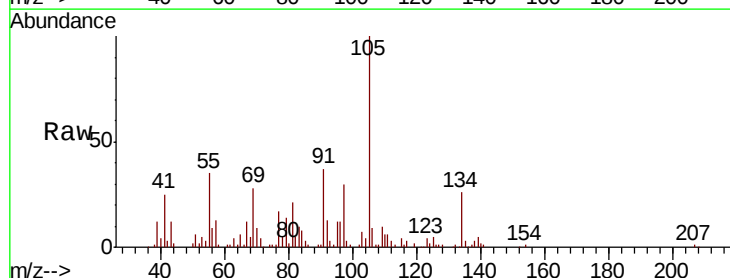
Acq: 08 Jan 2020 12:42

Tgt Ion: 105 Resp: 49450

Ion Ratio Lower Upper

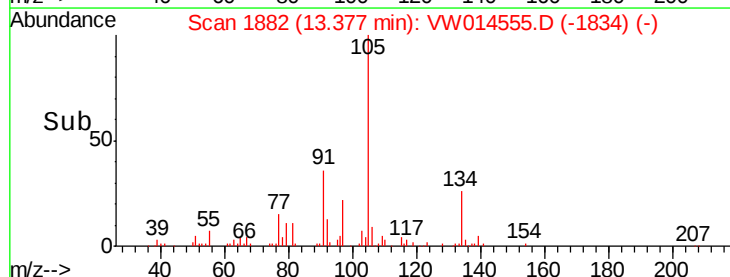
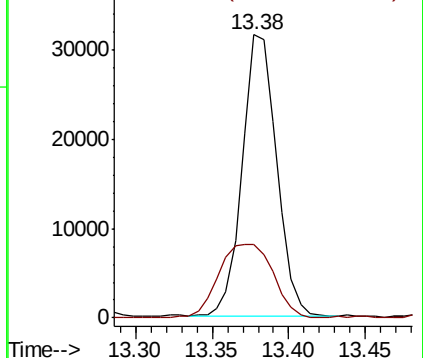
105 100

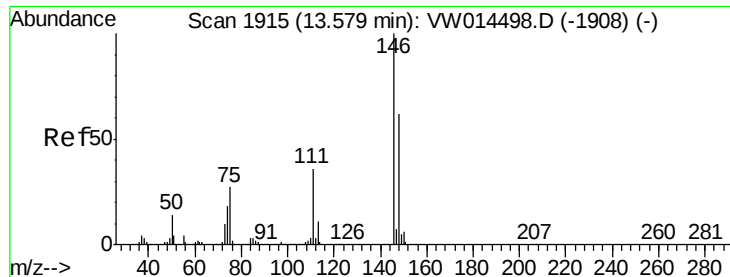
134 41.1 10.2 30.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

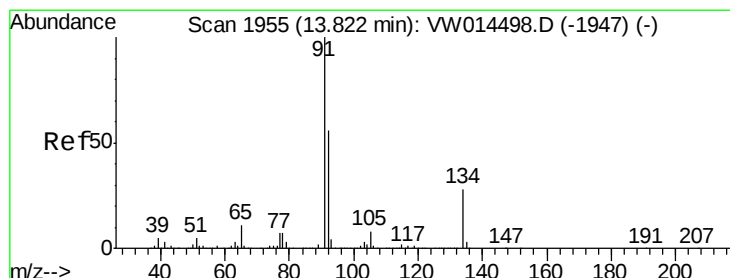
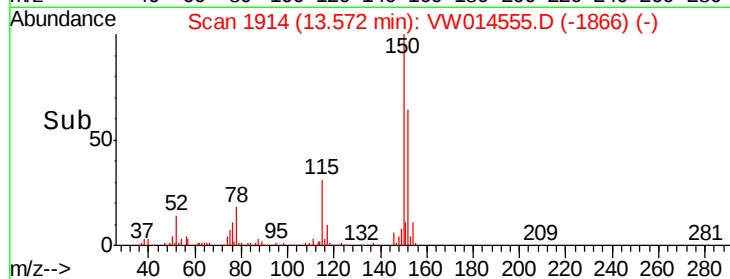
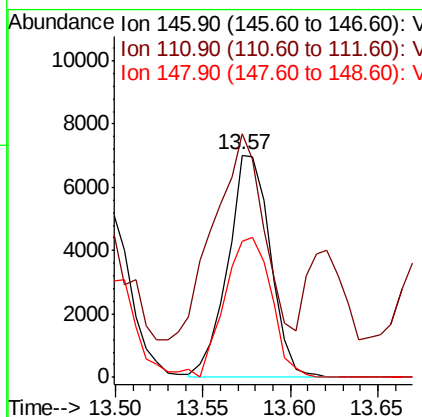
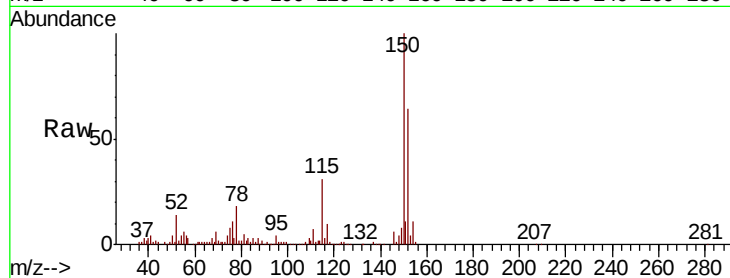




#88
 1,4-Dichlorobenzene
 Concen: 1.084 ug/l
 RT: 13.57 min Scan# 1914
 Delta R.T. -0.01 min
 Lab File: VW014555.D
 Acq: 08 Jan 2020 12:42

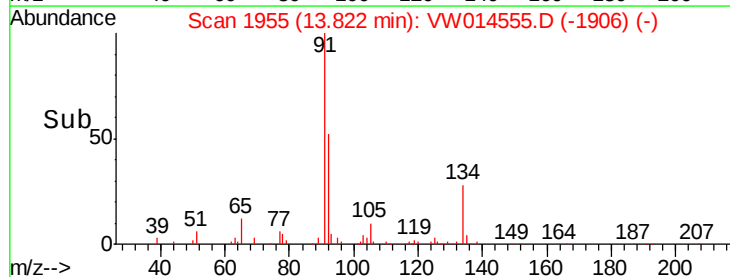
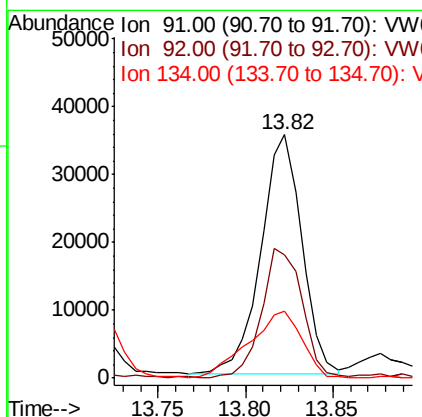
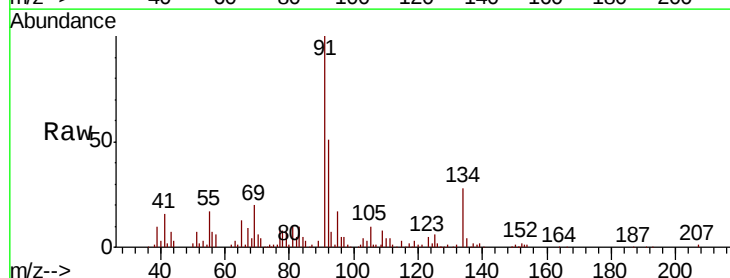
Instrument :
 MSVOA_W
 ClientSampled :

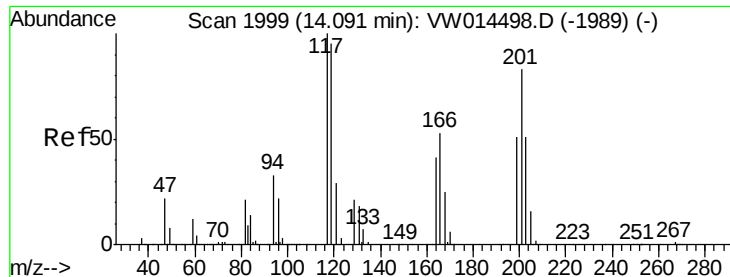
Tot Ion:146 Resp: 11827
 Ion Ratio Lower Upper
 146 100
 111 108.0 18.7 56.1#
 148 69.6 31.7 95.1



#89
 n-Butylbenzene
 Concen: 2.721 ug/l
 RT: 13.82 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW014555.D
 Acq: 08 Jan 2020 12:42

Tgt Ion: 91 Resp: 57356
 Ion Ratio Lower Upper
 91 100
 92 52.8 27.5 82.5
 134 36.6 13.7 41.1

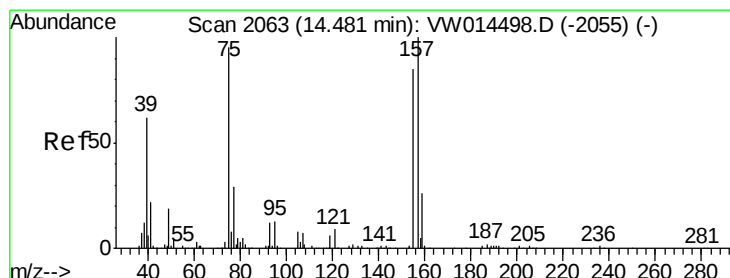
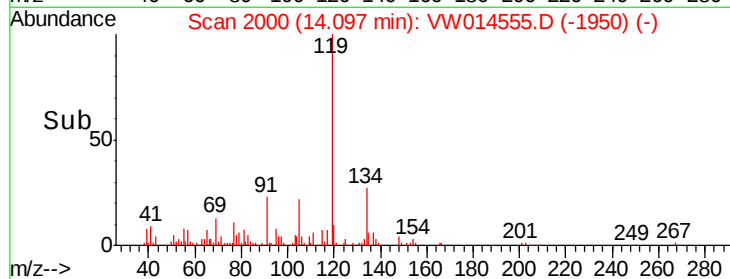
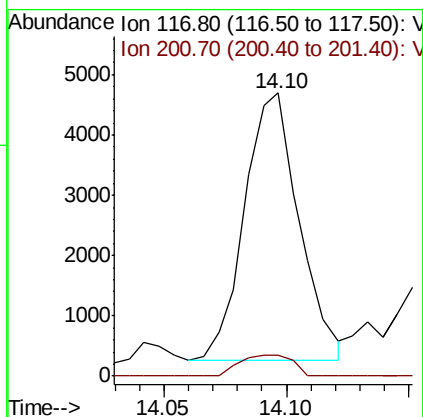
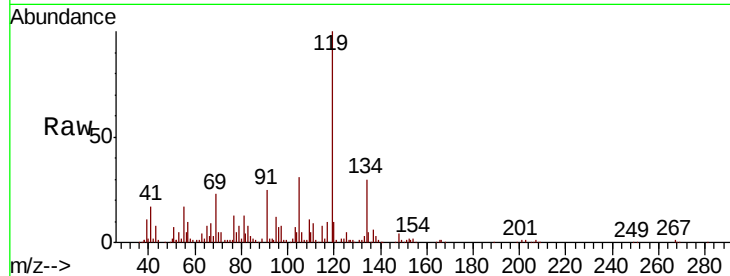




#90
Hexachloroethane
Concen: 1.751 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. 0.01 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 6941
Ion Ratio Lower Upper
117 100
201 7.6 43.0 128.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.543 ug/l
RT: 14.49 min Scan# 2065
Delta R.T. 0.01 min
Lab File: VW014555.D
Acq: 08 Jan 2020 12:42

Tgt Ion: 75 Resp: 1079
Ion Ratio Lower Upper
75 100
155 9.8 45.8 137.4#
157 0.0 58.1 174.2#

