

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042120\
 Data File : VW015264.D
 Acq On : 21 Apr 2020 15:57
 Operator : SY/VA
 Sample : L2323-08RE
 Misc : 7.02G/5ML/MSVOA W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 22 05:57:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W042020S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 21 06:39:58 2020
 Response via : Initial Calibration

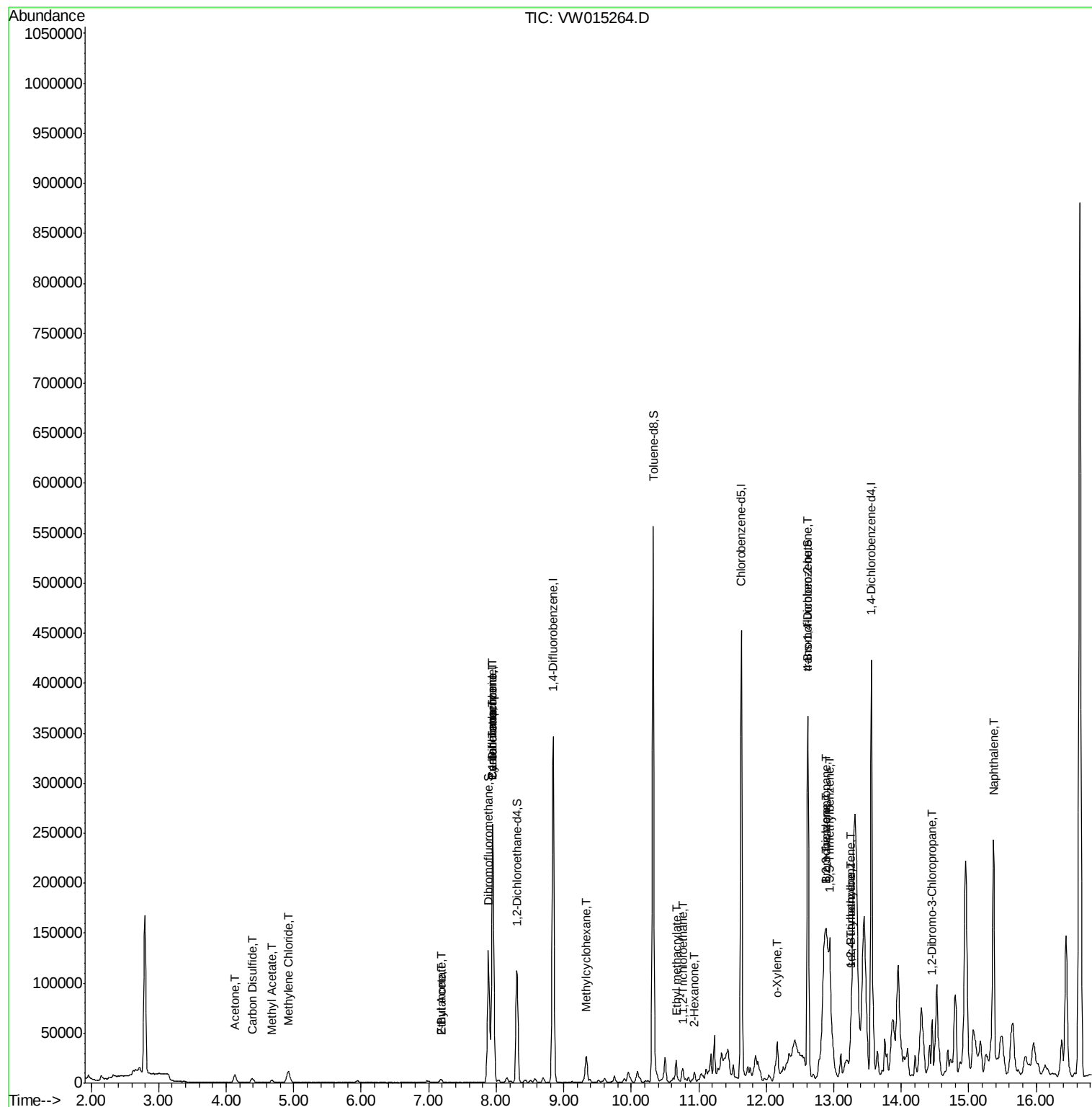
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	210129	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	314041	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	263998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	115395	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	89380	52.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.04%	
35) Dibromofluoromethane	7.88	113	91621	52.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.34%	
50) Toluene-d8	10.32	98	357082	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
62) 4-Bromofluorobenzene	12.62	95	114282	40.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.86%	
Target Compounds						
					Qvalue	
16) Acetone	4.13	43	13829	46.077	ug/l	98
17) Carbon Disulfide	4.39	76	7347	1.379	ug/l	99
18) Methyl Acetate	4.68	43	4011	5.049	ug/l	96
20) Methylene Chloride	4.92	84	9859	5.012	ug/l	88
25) 2-Butanone	7.18	43	4582	11.507	ug/l	94
31) Cyclohexane	7.95	56	6176	1.944	ug/l #	25
36) 1,1-Dichloropropene	7.95	75	13809	4.872	ug/l #	49
37) Ethyl Acetate	7.18	43	4582	4.981	ug/l #	67
38) Carbon Tetrachloride	7.95	117	18661	6.025	ug/l #	19
39) Methylcyclohexane	9.34	83	11655	3.089	ug/l	93
55) 1,1,2-Trichloroethane	10.76	97	5545	3.888	ug/l #	23
56) Ethyl methacrylate	10.66	69	2157	1.174	ug/l #	1
59) 2-Hexanone	10.93	43	3365	5.205	ug/l #	28
69) o-Xylene	12.16	106	9445	2.672	ug/l	95
76) 1,2,3-Trichloropropane	12.88	75	4159	4.659	ug/l #	100
77) Bromobenzene	12.88	156	238828	129.926	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.94	105	22435	3.255	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	57876	141.724	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.25	105	10417	1.532	ug/l	98
85) sec-Butylbenzene	13.25	105	10417	1.252	ug/l #	56
92) 1,2-Dibromo-3-Chloropropan	14.46	75	278	1.352	ug/l #	2
95) Naphthalene	15.36	128	199717	56.280	ug/l	100

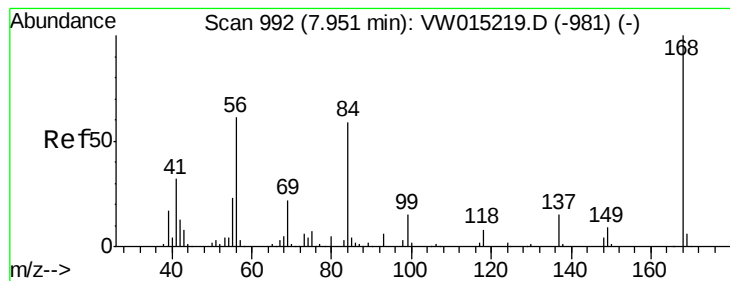
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW015264.D

Acq: 21 Apr 2020 15:57

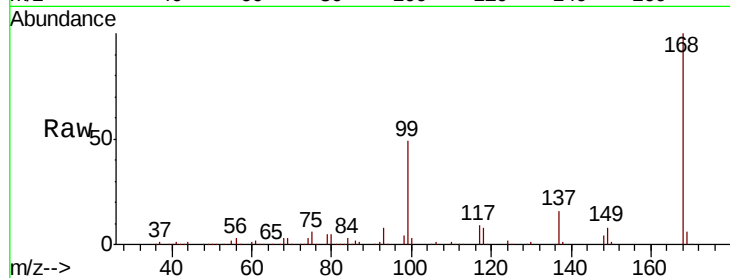
Instrument :
MSVOA_W
ClientSampled :

Tot Ion:168 Resp: 210129

Ion Ratio Lower Upper

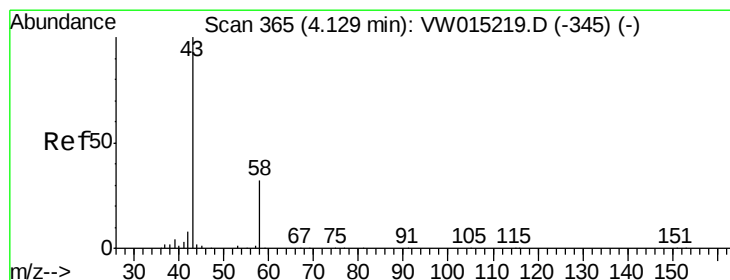
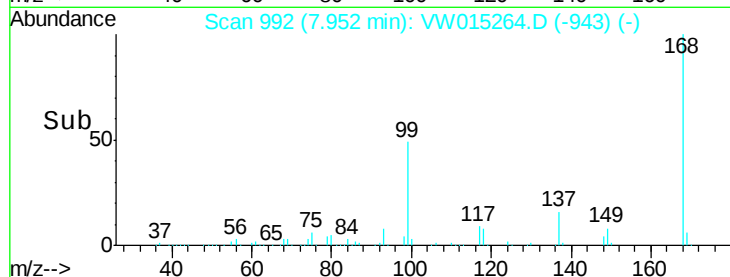
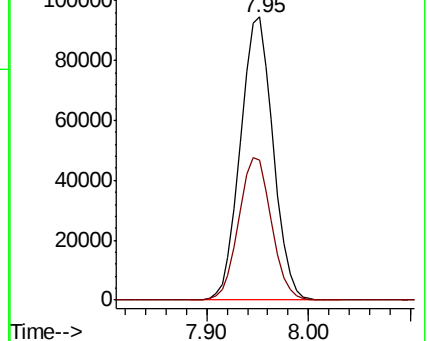
168 100

99 49.3 48.5 72.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#16

Acetone

Concen: 46.077 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

Lab File: VW015264.D

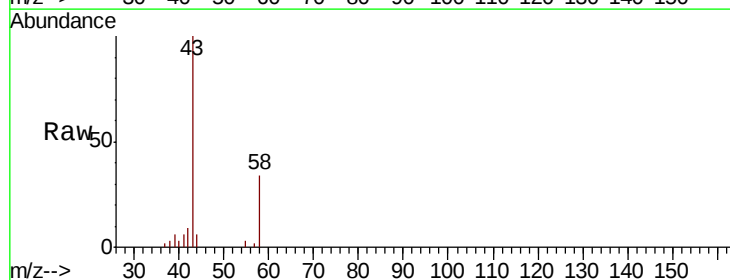
Acq: 21 Apr 2020 15:57

Tgt Ion: 43 Resp: 13829

Ion Ratio Lower Upper

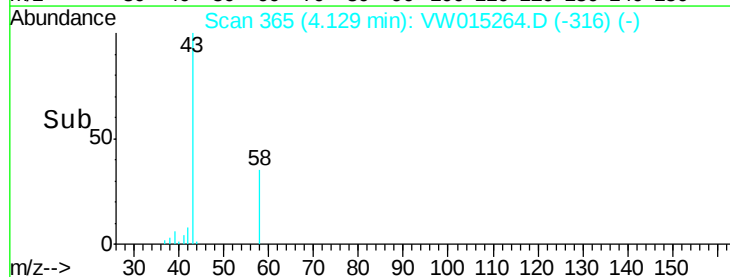
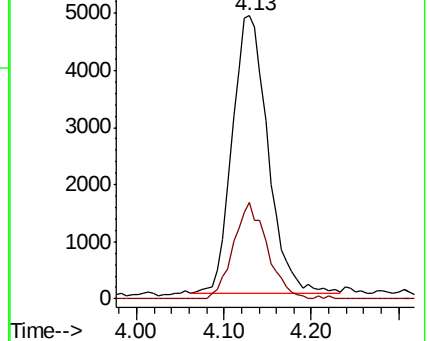
43 100

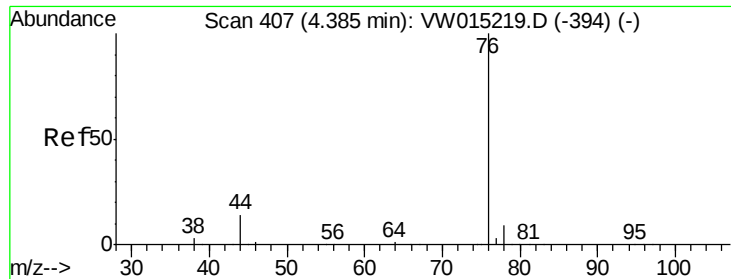
58 34.8 27.0 40.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

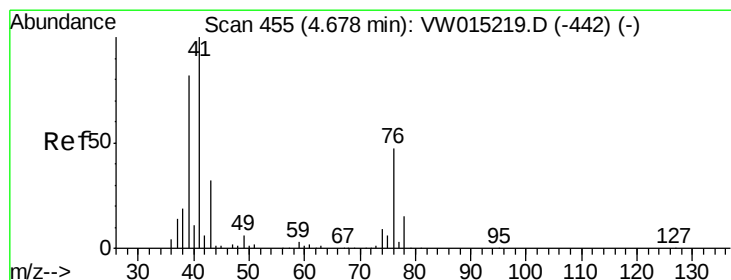
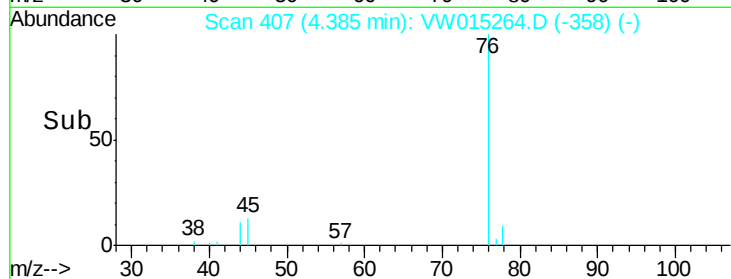
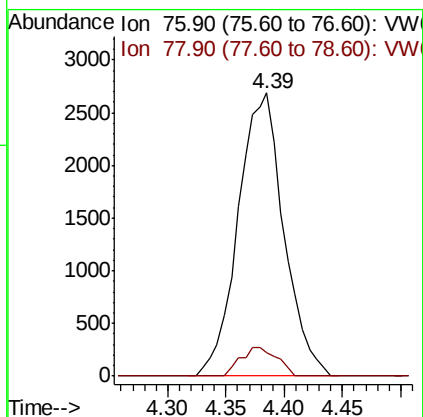
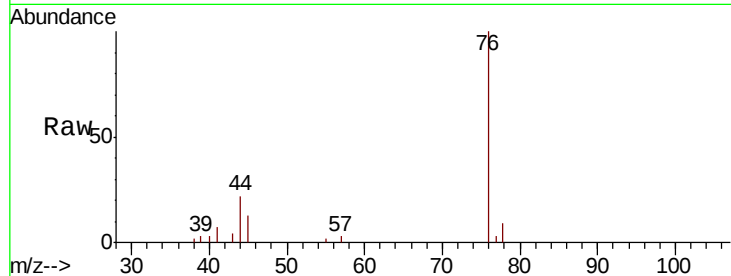




#17
Carbon Disulfide
Concen: 1.379 ug/l
RT: 4.39 min Scan# 407
Delta R.T. 0.00 min
Lab File: VW015264.D
Acq: 21 Apr 2020 15:57

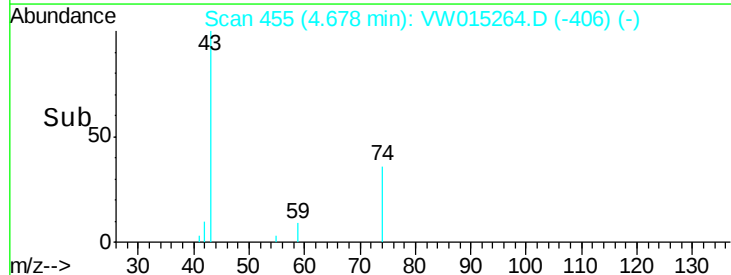
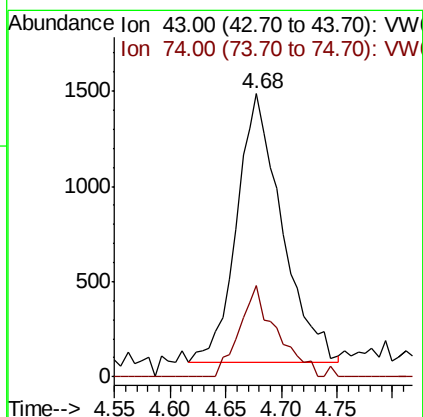
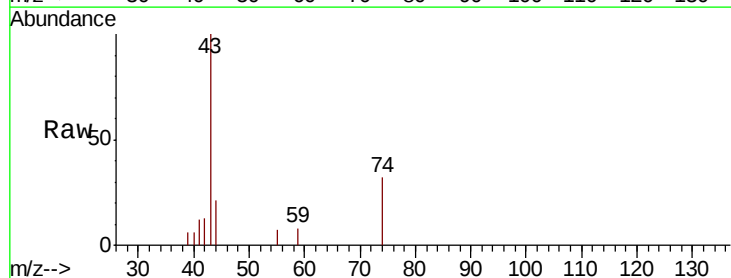
Instrument :
MSVOA_W
ClientSampled :

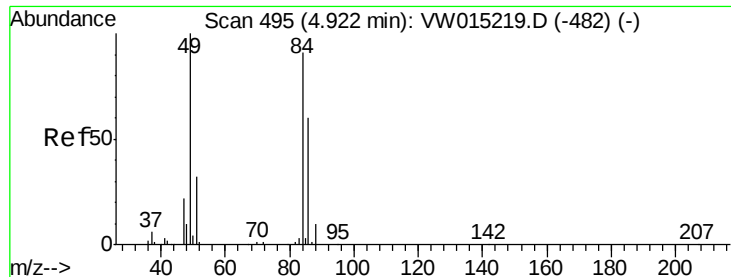
Tot Ion: 76 Resp: 7347
Ion Ratio Lower Upper
76 100
78 8.5 7.0 10.6



#18
Methyl Acetate
Concen: 5.049 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.00 min
Lab File: VW015264.D
Acq: 21 Apr 2020 15:57

Tgt Ion: 43 Resp: 4011
Ion Ratio Lower Upper
43 100
74 27.8 20.6 31.0

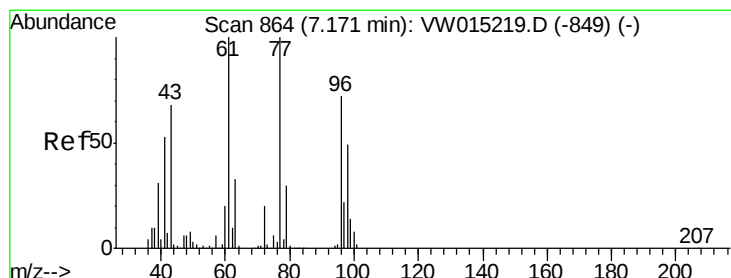
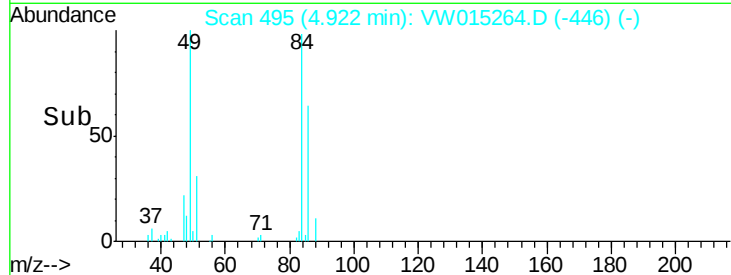
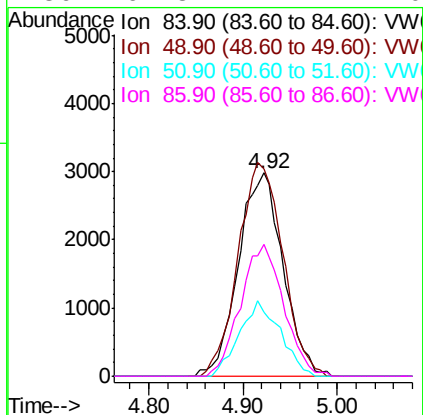
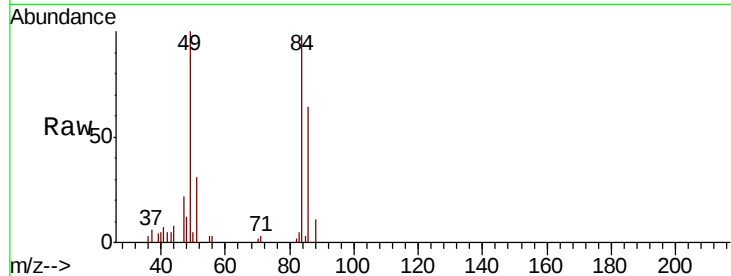




#20
Methvlene Chloride
Concen: 5.012 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.00 min
Lab File: VW015264.D
Acq: 21 Apr 2020 15:57

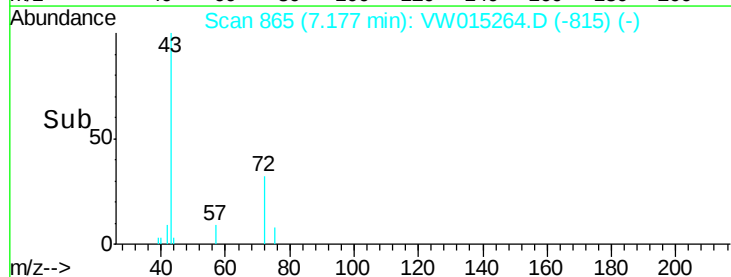
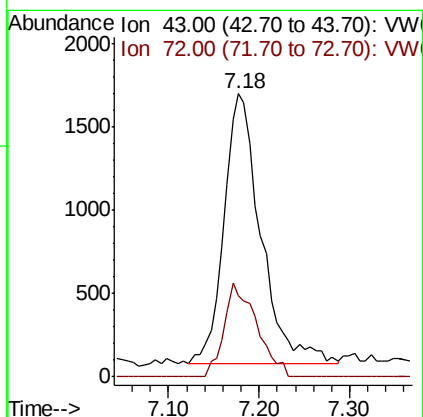
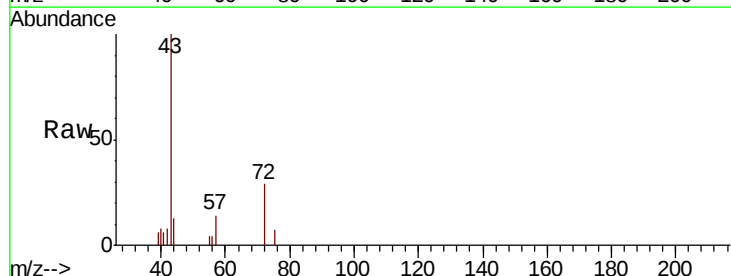
Instrument :
MSVOA_W
ClientSampleId :

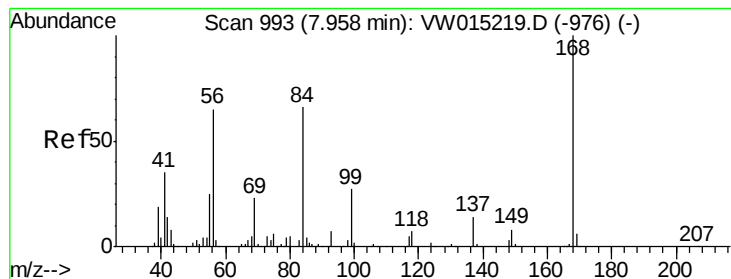
Tot Ion:	84	Resp:	9859
Ion	Ratio	Lower	Upper
84	100		
49	101.9	95.4	143.0
51	31.7	29.8	44.8
86	64.8	47.4	71.0



#25
2-Butanone
Concen: 11.507 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW015264.D
Acq: 21 Apr 2020 15:57

Tgt Ion:	43	Resp:	4582
Ion	Ratio	Lower	Upper
43	100		
72	29.9	21.6	32.4





#31

Cyclohexane

Concen: 1.944 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW015264.D

Acq: 21 Apr 2020 15:57

Instrument :

MSVOA_W

ClientSampled :

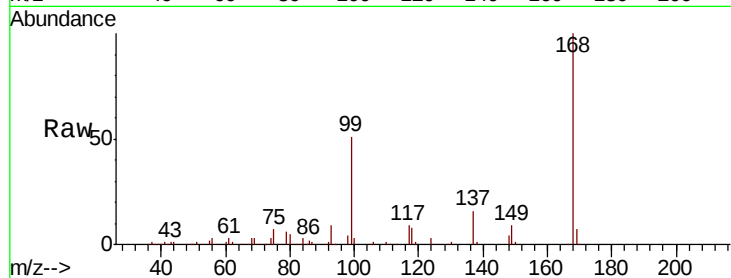
Tot Ion: 56 Resp: 6176

Ion Ratio Lower Upper

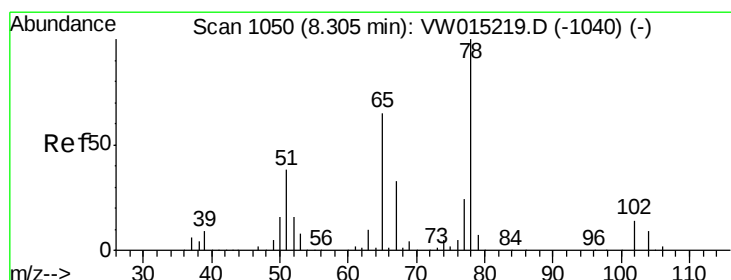
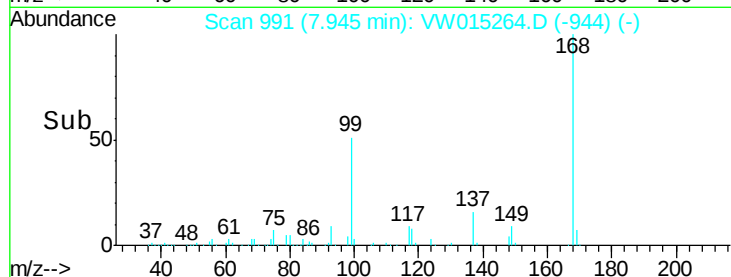
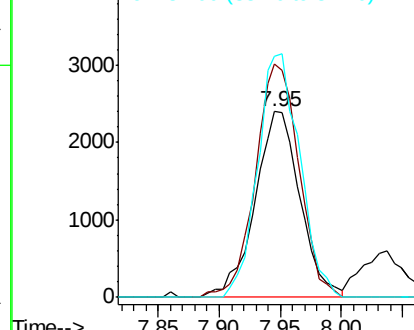
56 100

69 125.6 27.1 40.7#

84 129.8 71.9 107.9#



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: 52.016 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW015264.D

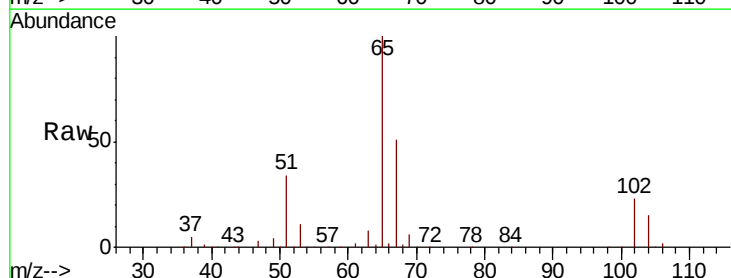
Acq: 21 Apr 2020 15:57

Tgt Ion: 65 Resp: 89380

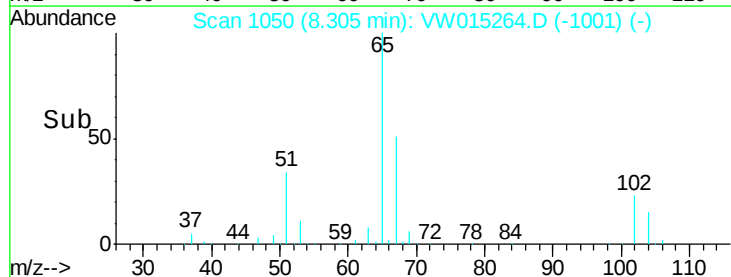
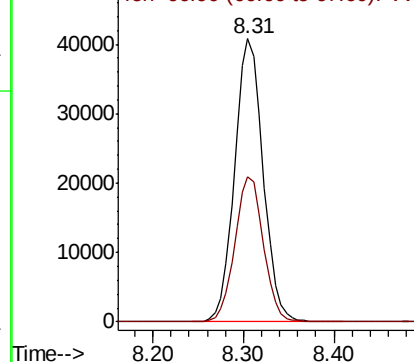
Ion Ratio Lower Upper

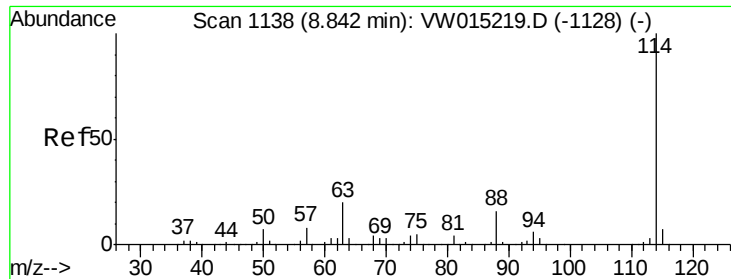
65 100

67 51.7 0.0 107.0



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

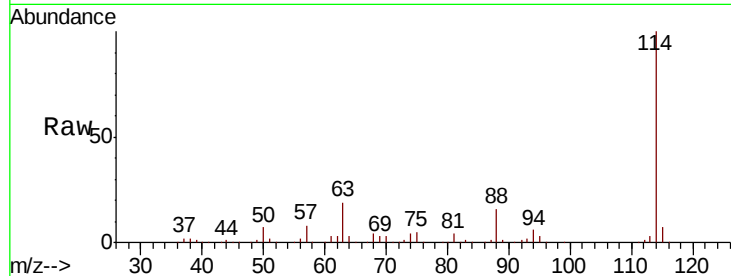




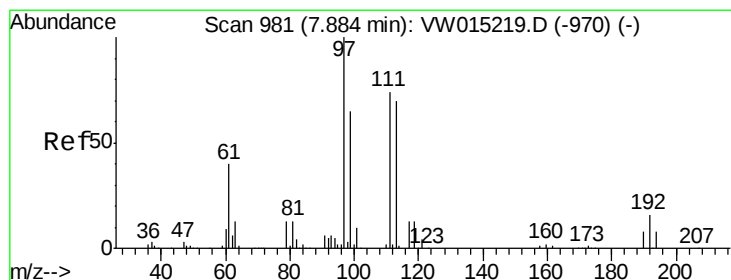
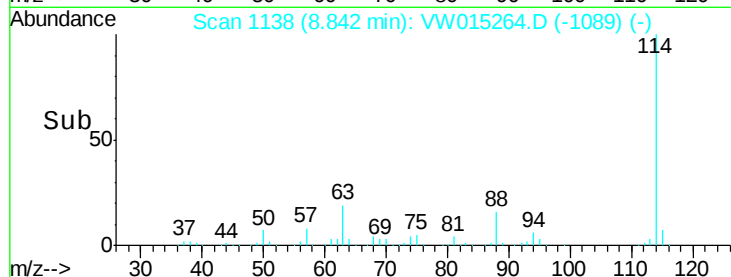
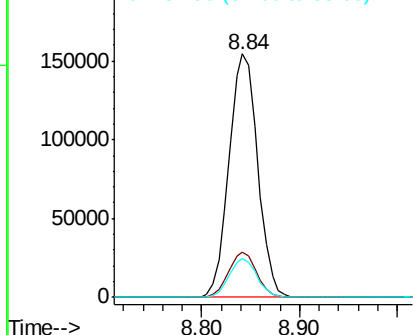
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:114 Resp: 314041
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.8
 88 16.0 0.0 30.2

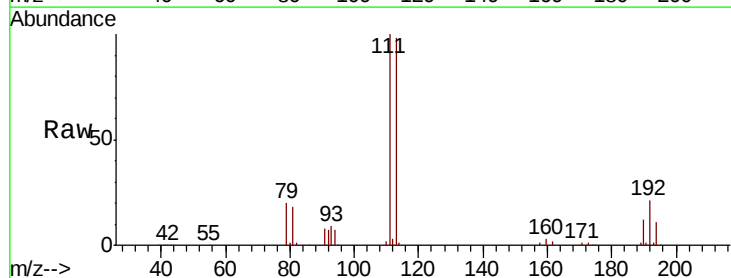


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

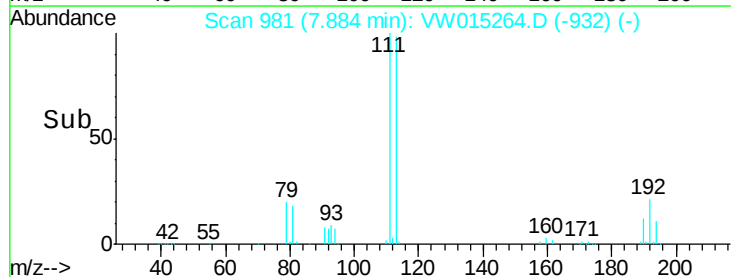
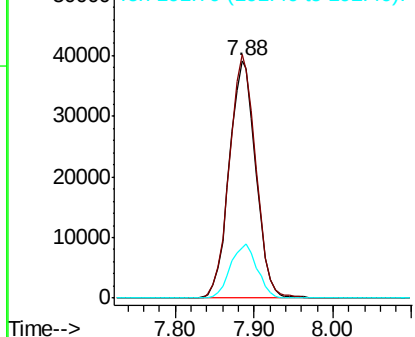


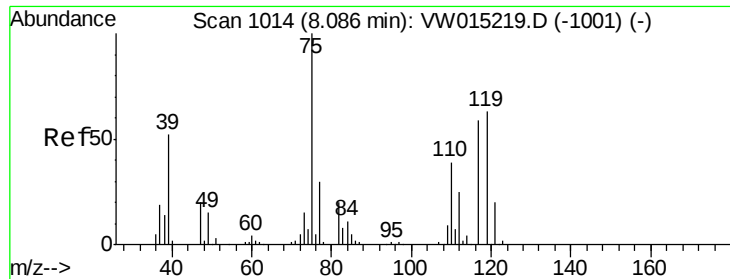
#35
 Dibromofluoromethane
 Concen: 52.670 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

Tgt Ion:113 Resp: 91621
 Ion Ratio Lower Upper
 113 100
 111 101.9 83.0 124.4
 192 22.9 15.1 22.7#



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

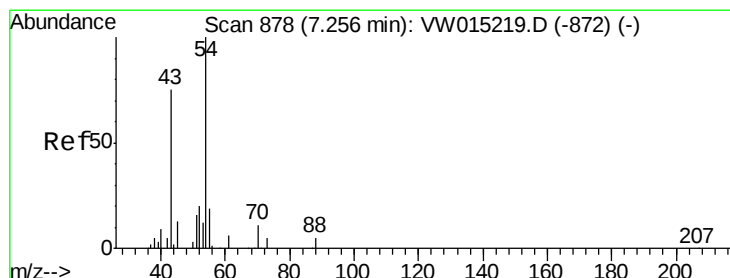
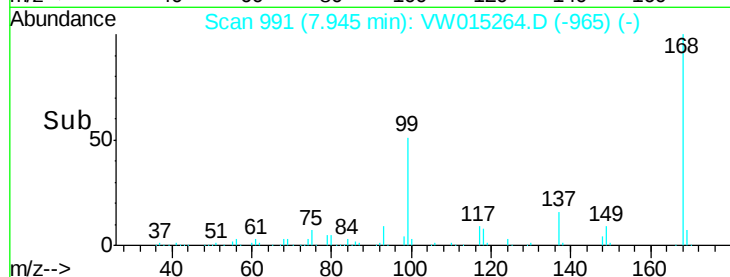
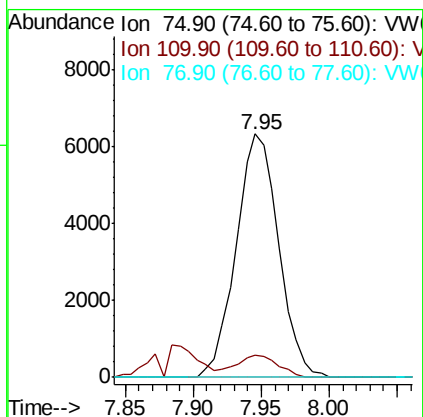
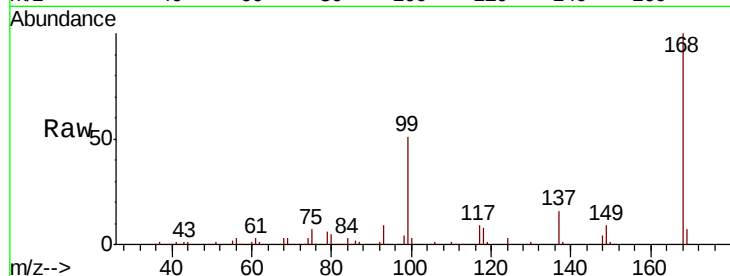




#36
 1,1-Dichloropropene
 Concen: 4.872 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.14 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

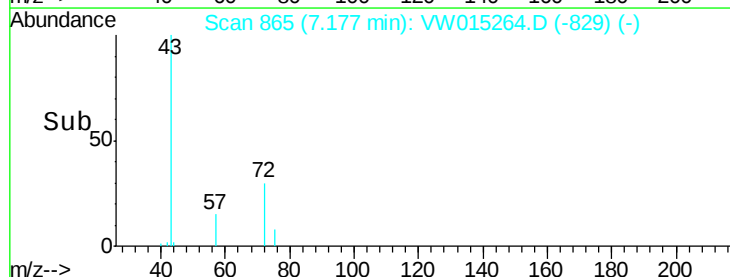
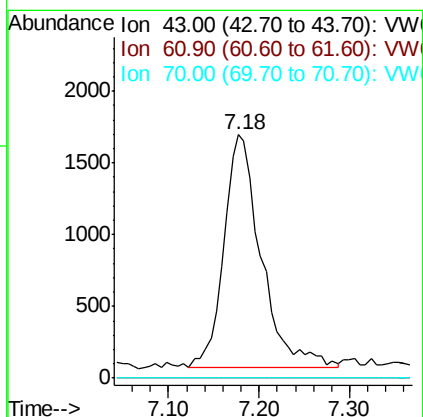
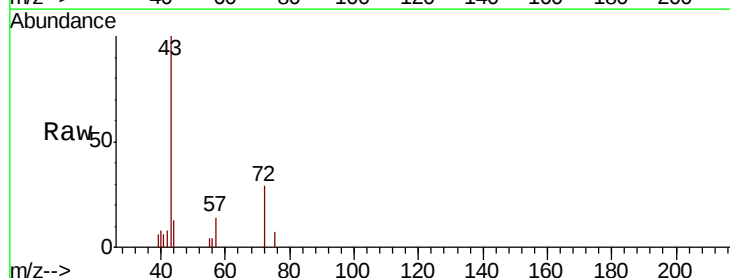
Instrument :
 MSVOA_W
 ClientSampled :

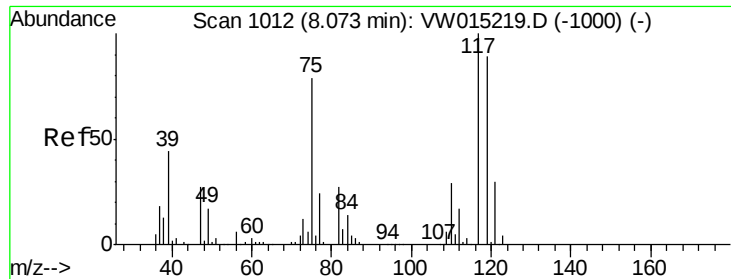
Tot Ion	75	Resp	13809
Ion Ratio	Lower	Upper	
75	100		
110	8.6	18.2	54.6#
77	0.0	24.5	36.7#



#37
 Ethyl Acetate
 Concen: 4.981 ug/l
 RT: 7.18 min Scan# 865
 Delta R.T. -0.08 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

Tgt Ion	43	Resp	4582
Ion Ratio	Lower	Upper	
43	100		
61	0.0	11.9	17.9#
70	0.0	8.8	13.2#

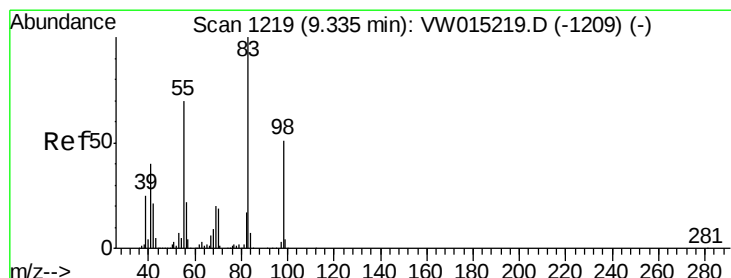
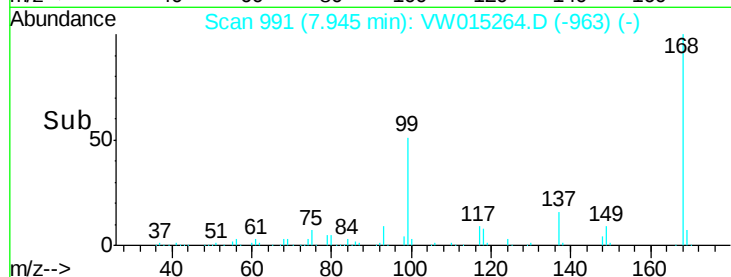
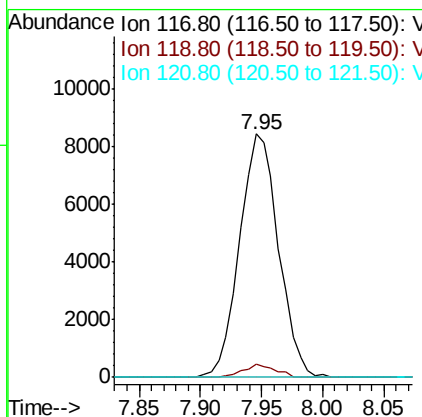
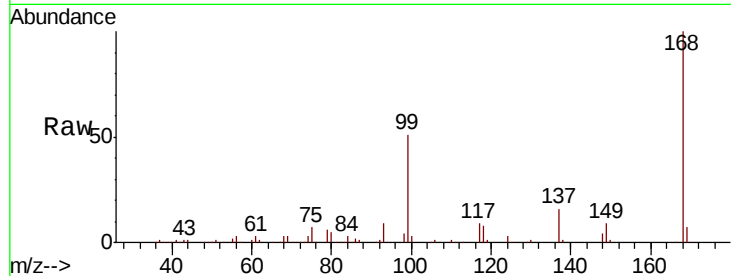




#38
Carbon Tetrachloride
Concen: 6.025 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.13 min
Lab File: VW015264.D
Acq: 21 Apr 2020 15:57

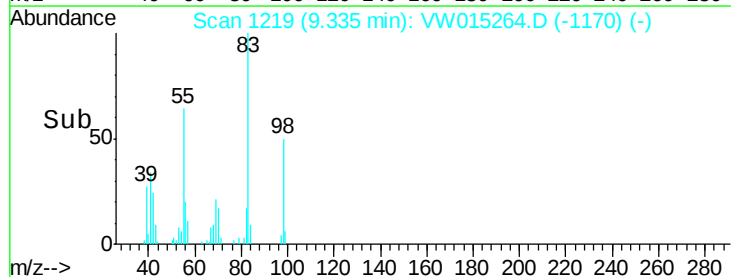
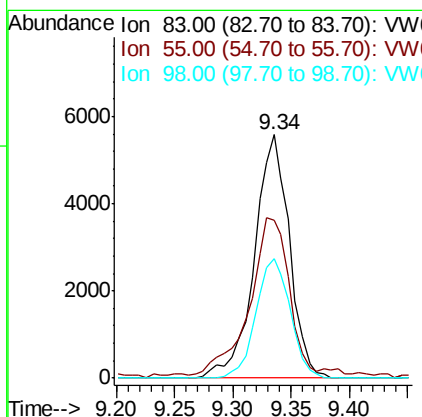
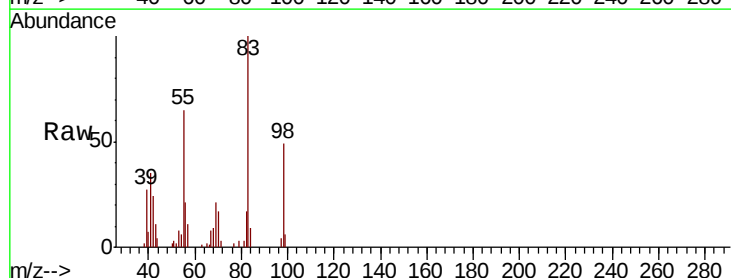
Instrument :
MSVOA_W
ClientSampled :

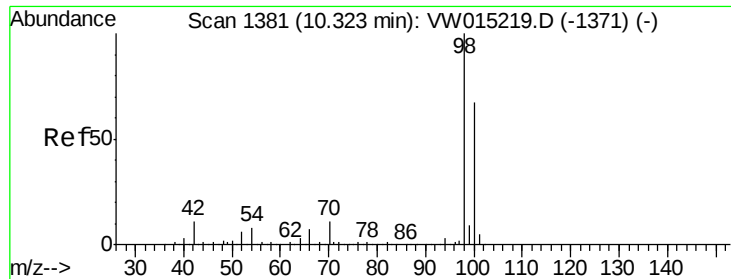
Tot Ion:117 Resp: 18661
Ion Ratio Lower Upper
117 100
119 5.5 72.3 108.5#
121 0.0 23.7 35.5#



#39
Methylcyclohexane
Concen: 3.089 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW015264.D
Acq: 21 Apr 2020 15:57

Tgt Ion: 83 Resp: 11655
Ion Ratio Lower Upper
83 100
55 63.6 58.1 87.1
98 49.2 40.2 60.4





#50

Toluene-d8

Concen: 48.797 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW015264.D

Acq: 21 Apr 2020 15:57

Instrument :

MSVOA_W

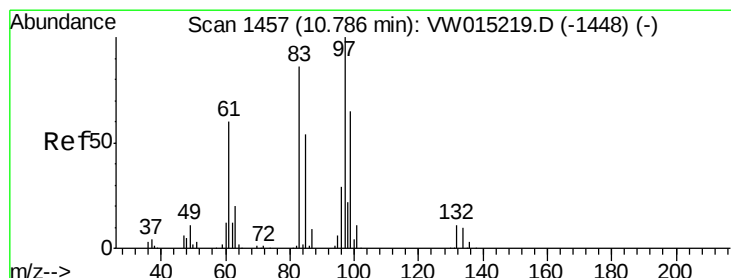
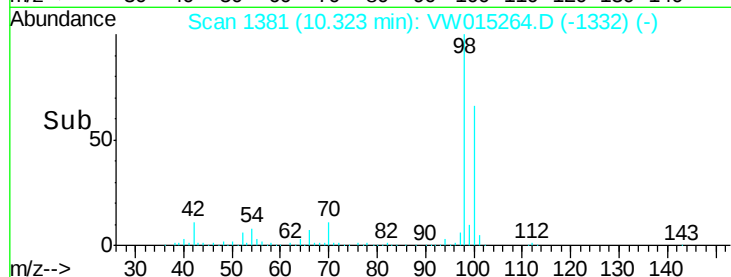
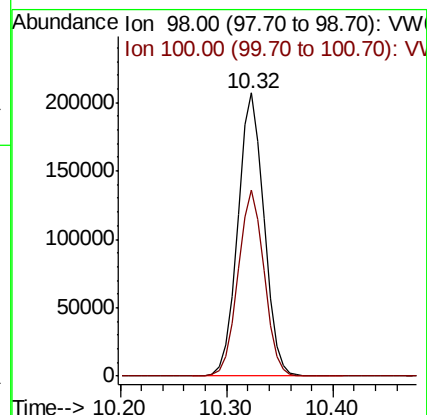
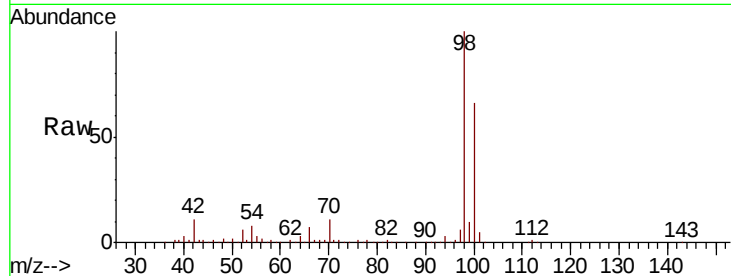
ClientSampled :

Tot Ion: 98 Resp: 357082

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3



#55

1,1,2-Trichloroethane

Concen: 3.888 ug/l

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW015264.D

Acq: 21 Apr 2020 15:57

Tgt Ion: 97 Resp: 5545

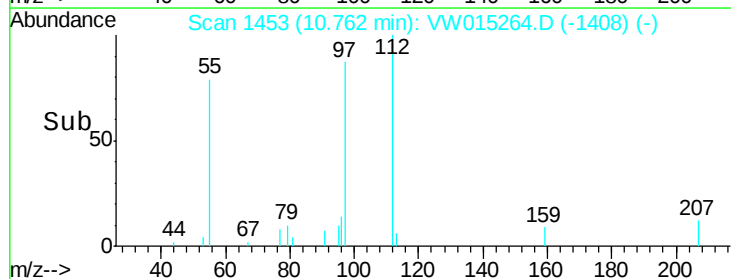
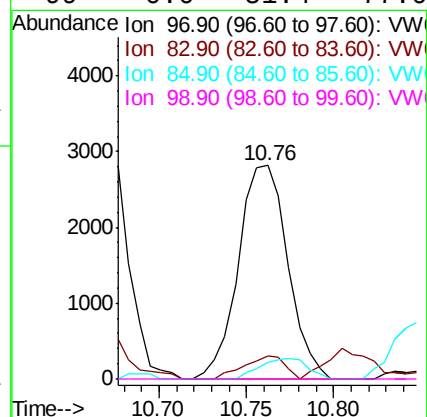
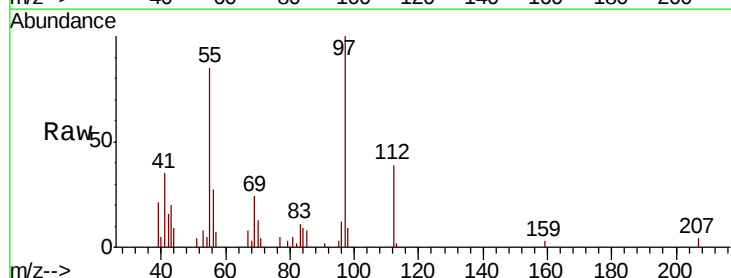
Ion Ratio Lower Upper

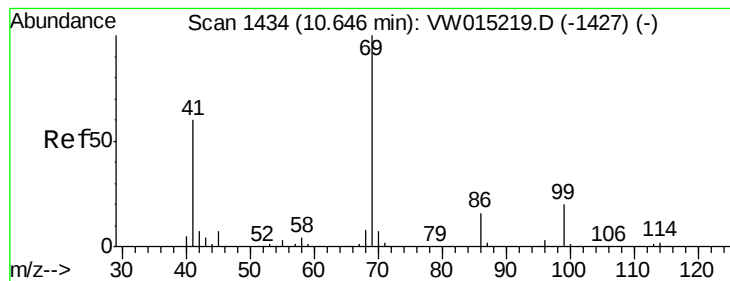
97 100

83 10.5 67.3 100.9#

85 7.9 43.8 65.8#

99 0.0 51.4 77.0#





#56

Ethyl methacrylate

Concen: 1.174 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW015264.D

Acq: 21 Apr 2020 15:57

Instrument :

MSVOA_W

ClientSampled :

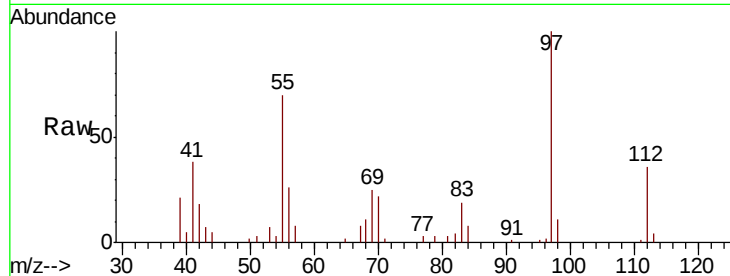
Tot Ion: 69 Resp: 2157

Ion Ratio Lower Upper

69 100

41 150.6 51.3 76.9#

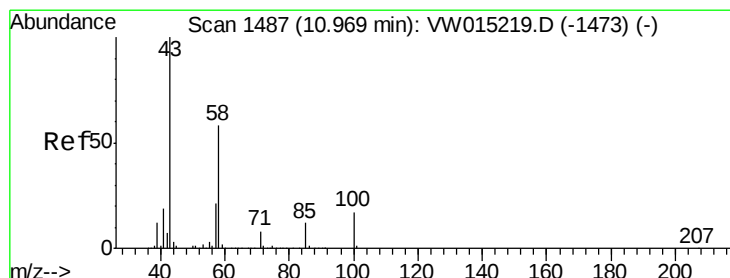
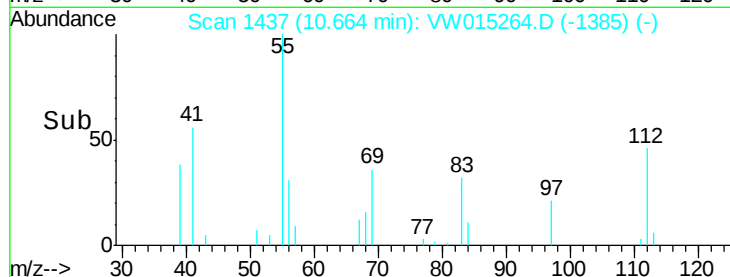
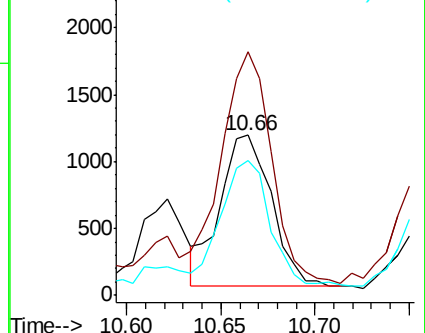
39 85.4 24.6 37.0#



Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW



#59

2-Hexanone

Concen: 5.205 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.04 min

Lab File: VW015264.D

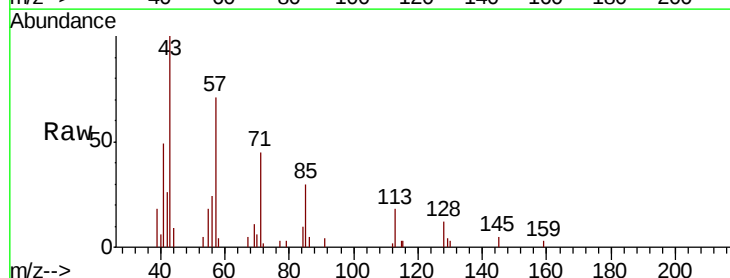
Acq: 21 Apr 2020 15:57

Tgt Ion: 43 Resp: 3365

Ion Ratio Lower Upper

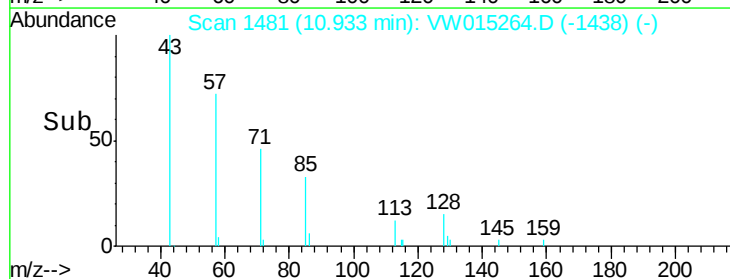
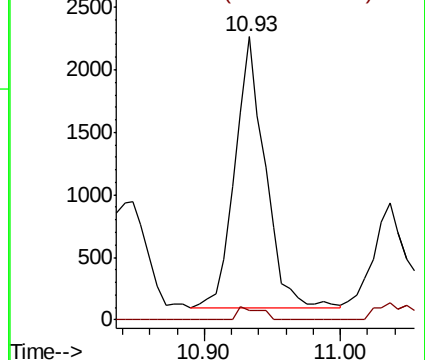
43 100

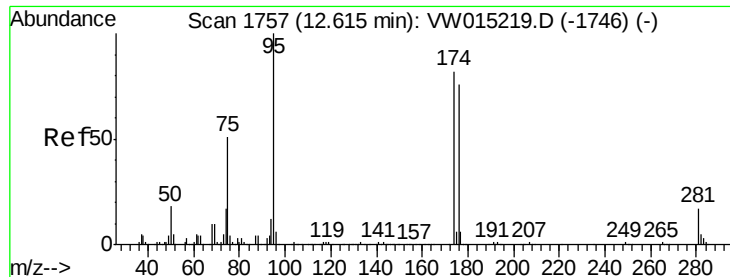
58 3.6 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#62

4-Bromofluorobenzene

Concen: 40.931 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW015264.D

Acq: 21 Apr 2020 15:57

Instrument :

MSVOA_W

ClientSampleId :

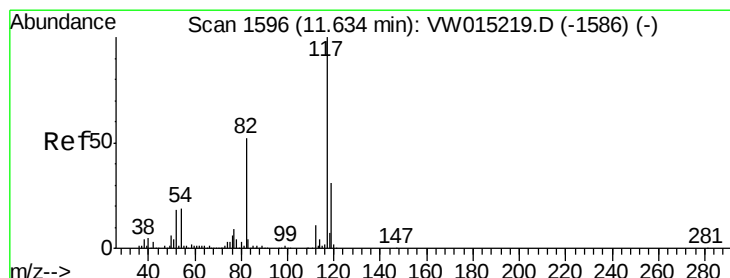
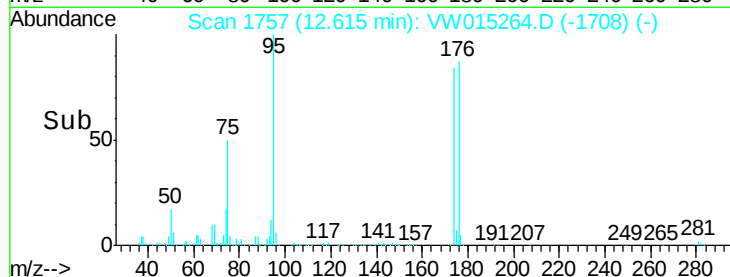
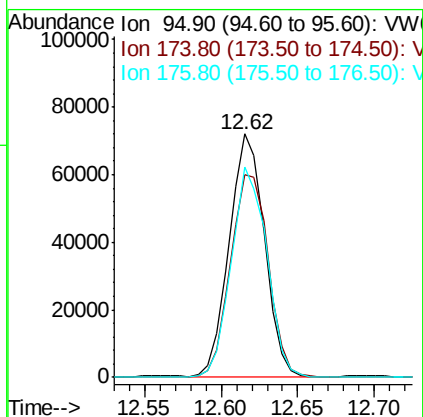
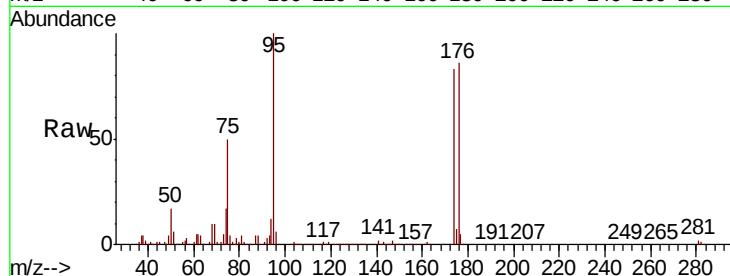
Tot Ion: 95 Resp: 114282

Ion Ratio Lower Upper

95 100

174 90.2 0.0 144.4

176 87.8 0.0 140.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW015264.D

Acq: 21 Apr 2020 15:57

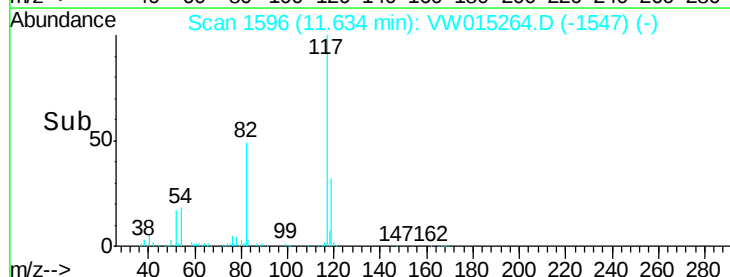
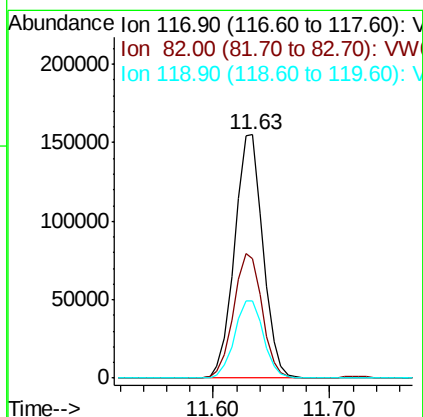
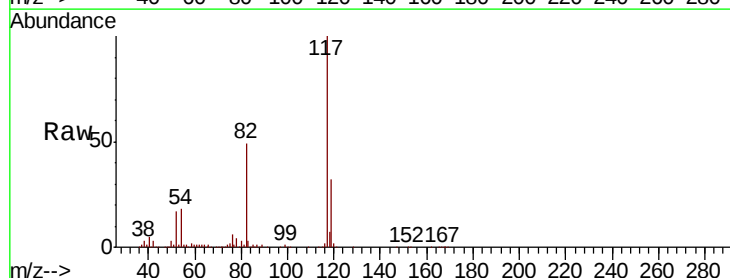
Tgt Ion: 117 Resp: 263998

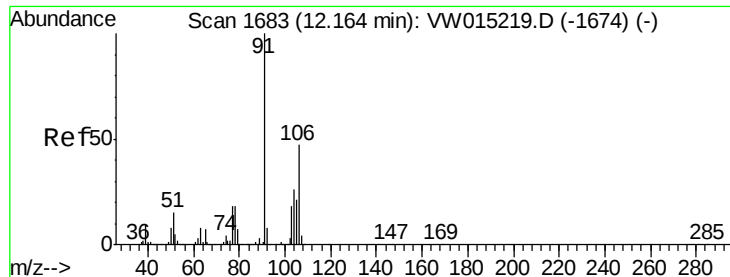
Ion Ratio Lower Upper

117 100

82 49.1 44.1 66.1

119 31.7 24.9 37.3

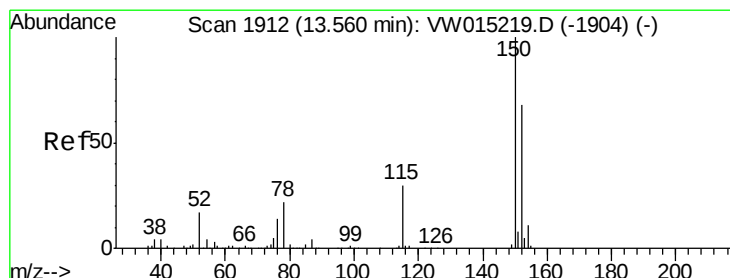
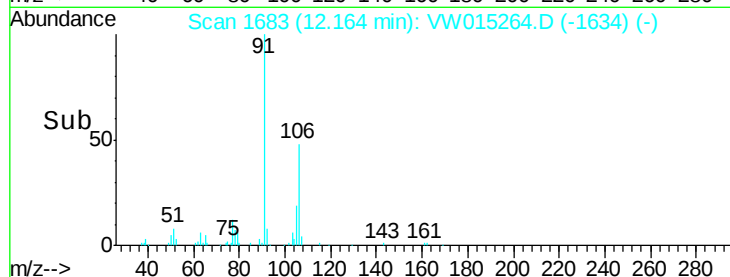
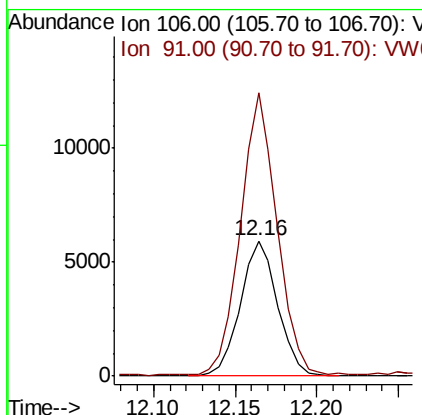
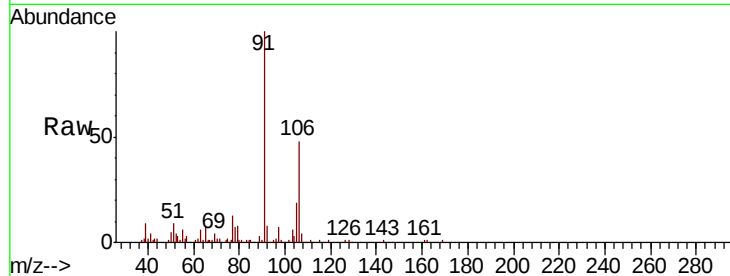




#69
o-Xylene
Concen: 2.672 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW015264.D
Acq: 21 Apr 2020 15:57

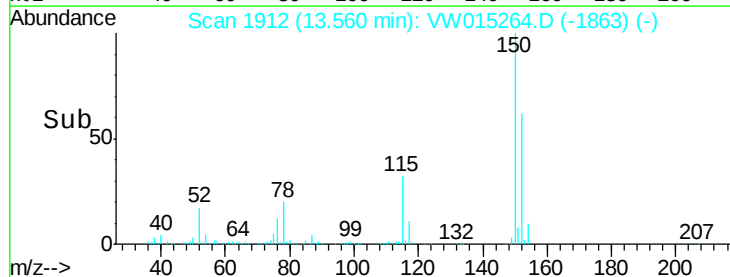
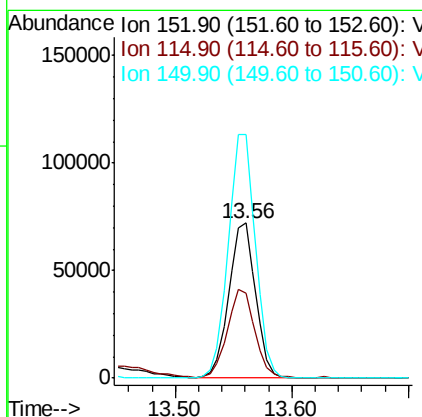
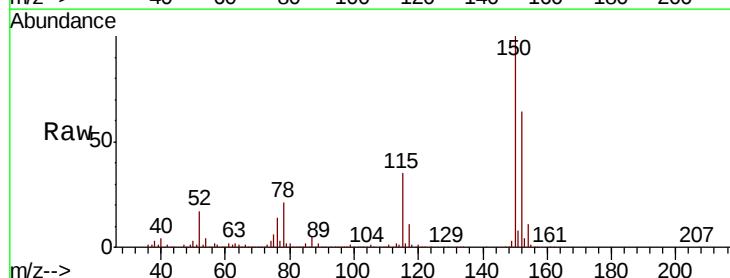
Instrument :
MSVOA_W
ClientSampled :

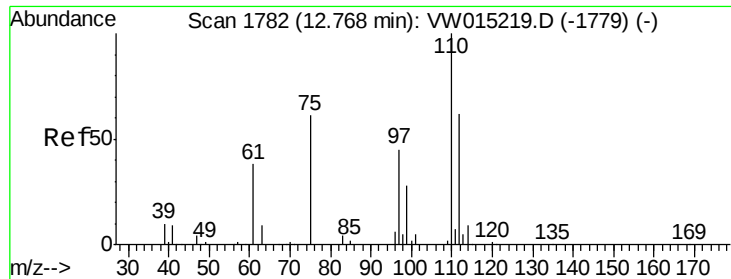
Tot Ion:106 Resp: 9445
Ion Ratio Lower Upper
106 100
91 202.8 105.7 317.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW015264.D
Acq: 21 Apr 2020 15:57

Tgt Ion:152 Resp: 115395
Ion Ratio Lower Upper
152 100
115 57.1 31.3 93.9
150 159.3 0.0 343.4

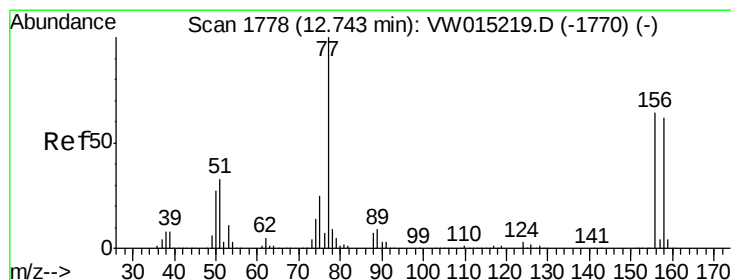
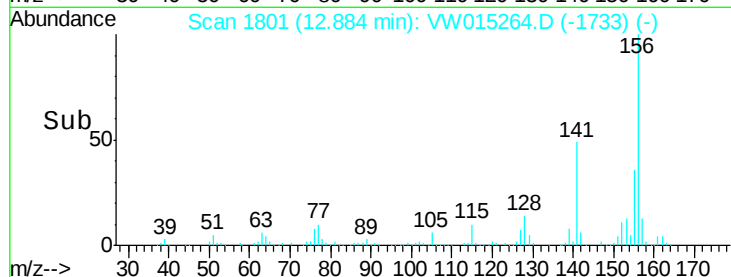
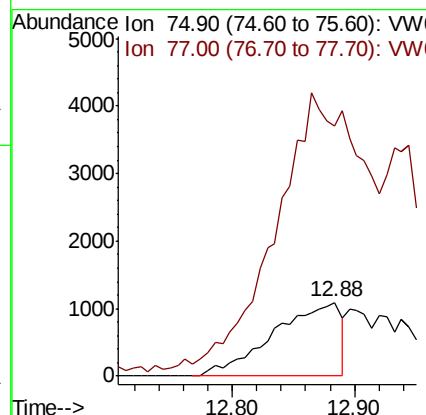
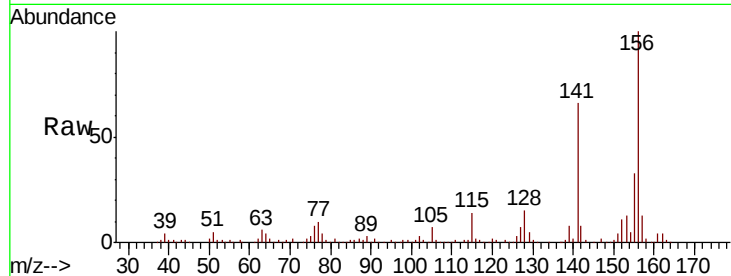




#76
 1,2,3-Trichloropropane
 Concen: 4.659 ug/l
 RT: 12.88 min Scan# 1801
 Delta R.T. 0.12 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

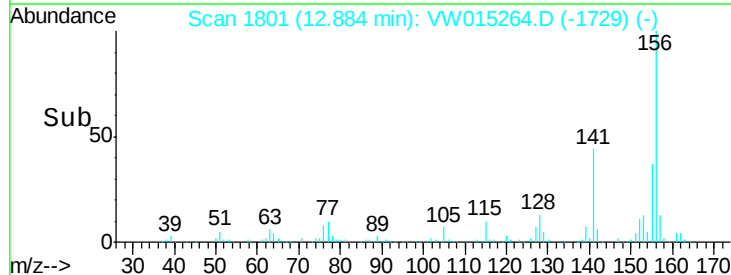
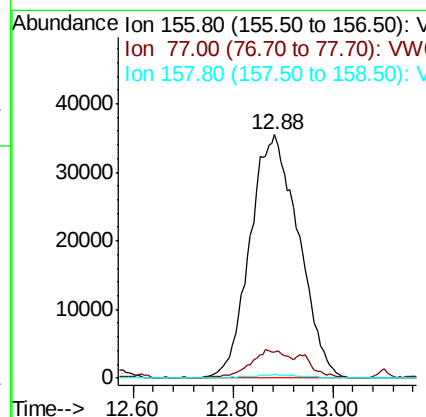
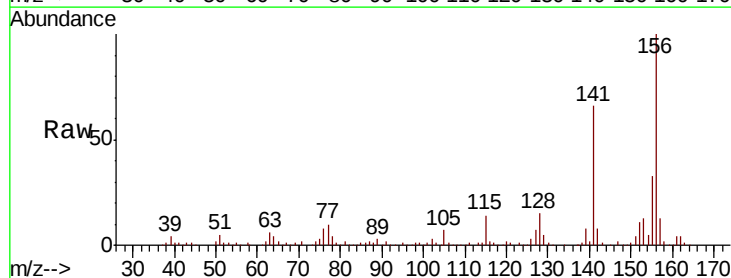
Instrument :
 MSVOA_W
 ClientSampled :

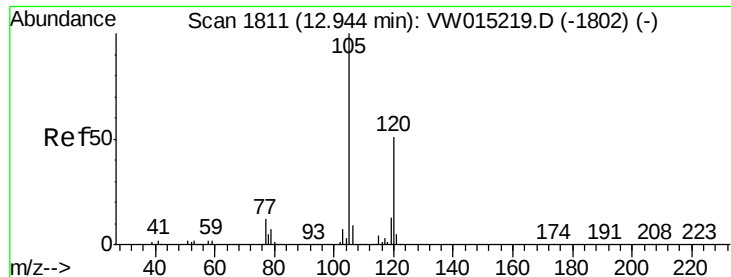
Tot Ion: 75 Resp: 4159
 Ion Ratio Lower Upper
 75 100
 77 502.8 0.0 0.0#



#77
 Bromobenzene
 Concen: 129.926 ug/l
 RT: 12.88 min Scan# 1801
 Delta R.T. 0.14 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

Tgt Ion: 156 Resp: 238828
 Ion Ratio Lower Upper
 156 100
 77 8.8 100.5 301.5#
 158 0.3 47.9 143.8#

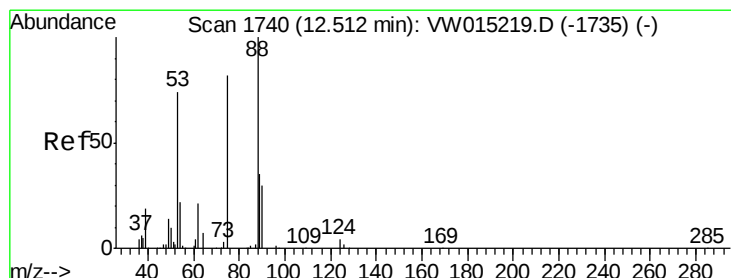
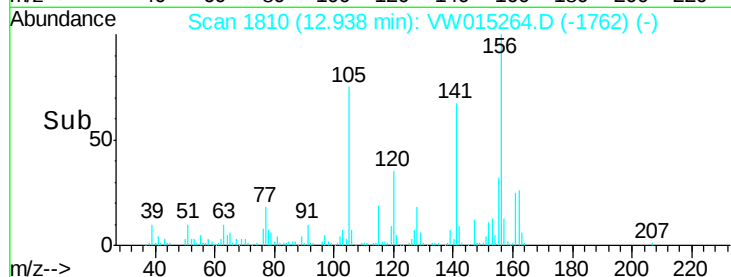
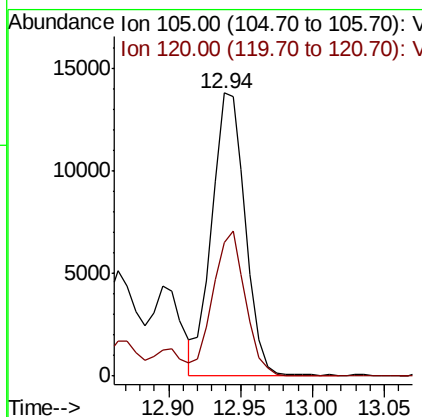
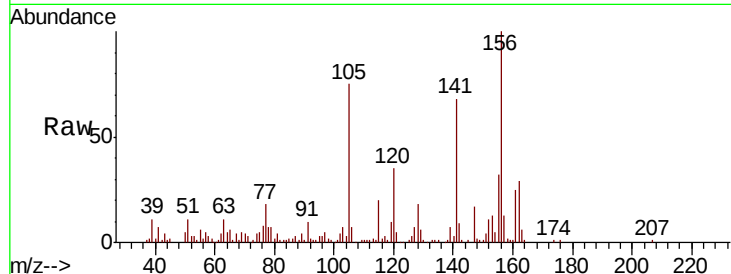




#80
 1,3,5-Trimethylbenzene
 Concen: 3.255 ug/l
 RT: 12.94 min Scan# 1810
 Delta R.T. -0.01 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

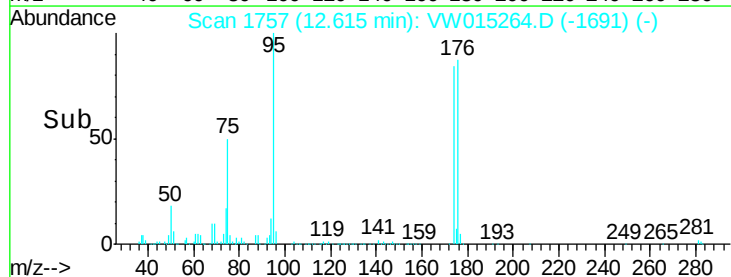
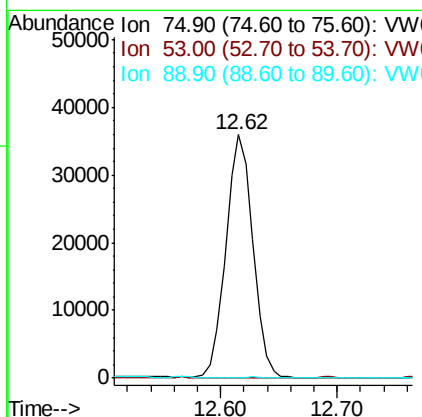
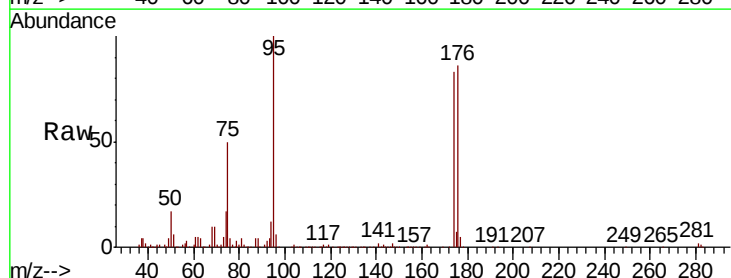
Instrument :
 MSVOA_W
 ClientSampled :

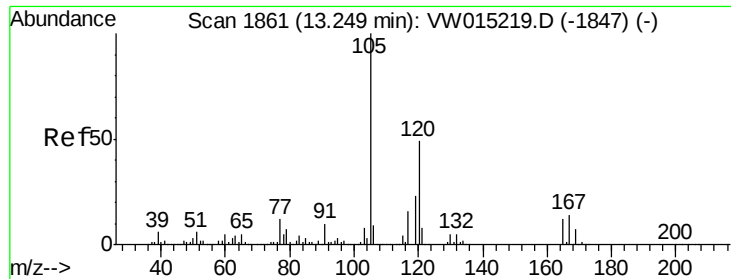
Tot Ion:105 Resp: 22435
 Ion Ratio Lower Upper
 105 100
 120 49.6 24.9 74.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 141.724 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

Tgt Ion: 75 Resp: 57876
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.4 104.2#
 89 0.2 34.8 52.2#

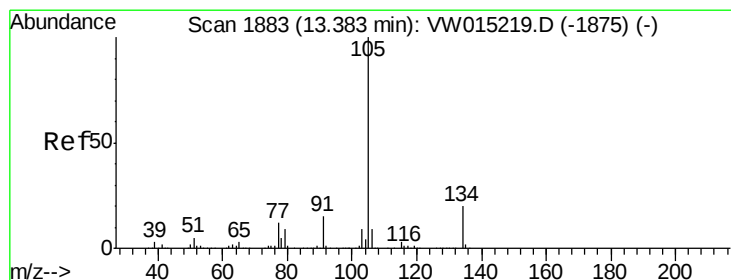
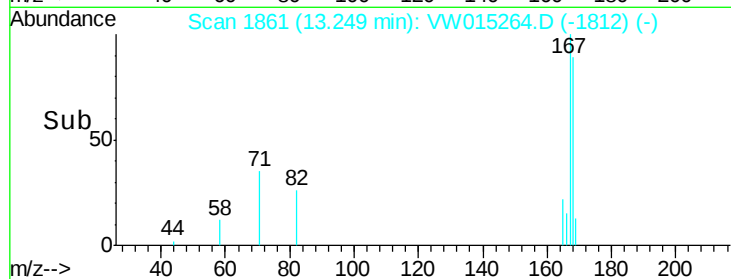
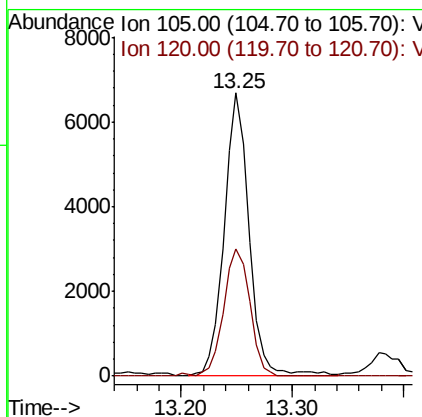
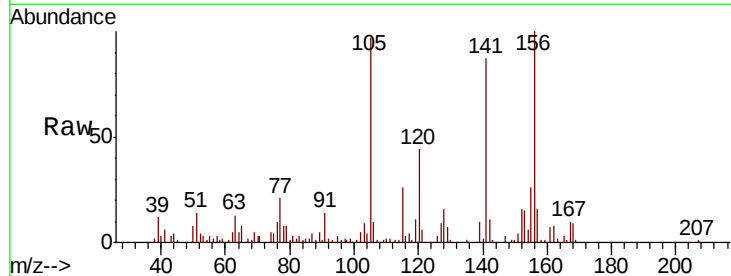




#84
 1,2,4-Trimethylbenzene
 Concen: 1.532 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

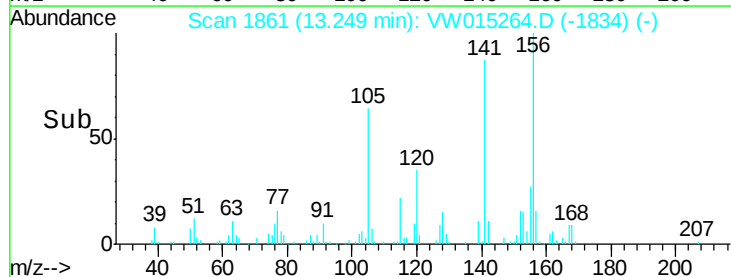
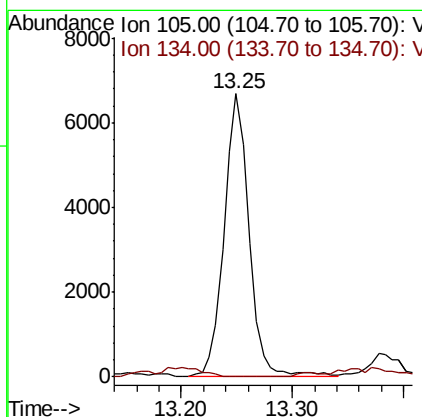
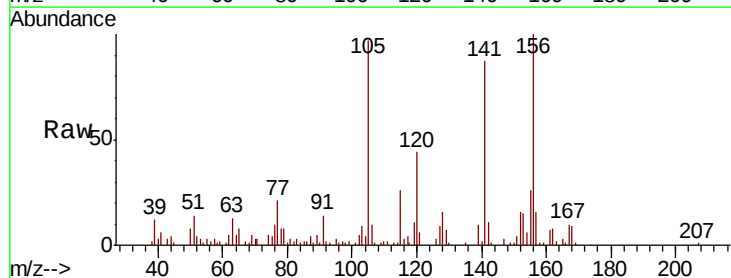
Instrument :
 MSVOA_W
 ClientSampleId :

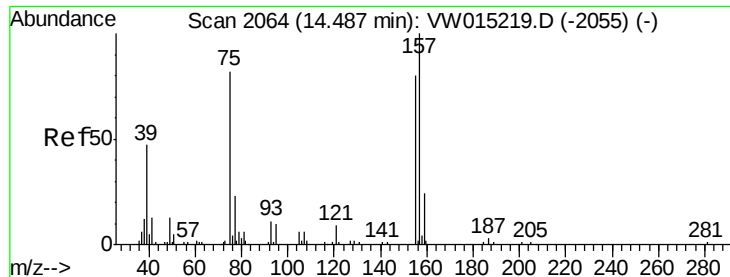
Tot Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.0	69.0



#85
 sec-Butylbenzene
 Concen: 1.252 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. -0.13 min
 Lab File: VW015264.D
 Acq: 21 Apr 2020 15:57

Tgt Ion	Ratio	Lower	Upper
105	100		
134	0.0	10.1	30.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.352 ug/l

RT: 14.46 min Scan# 2060

Delta R.T. -0.02 min

Lab File: VW015264.D

Acq: 21 Apr 2020 15:57

Instrument :

MSVOA_W

ClientSampleId :

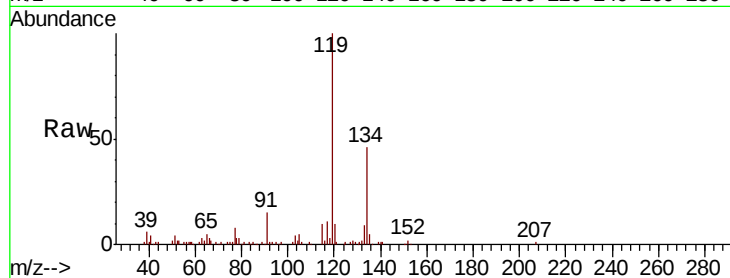
Tot Ion: 75 Resp: 278

Ion Ratio Lower Upper

75 100

155 0.0 41.6 124.9#

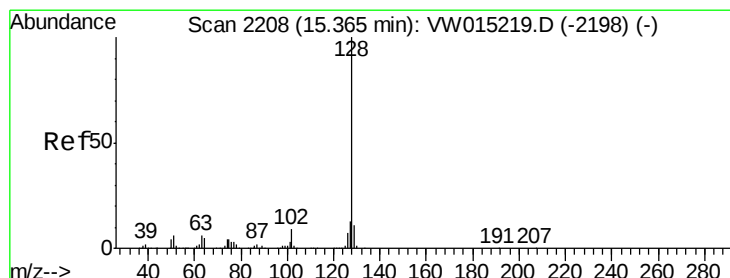
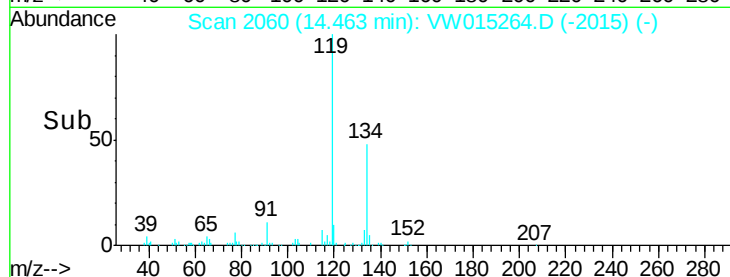
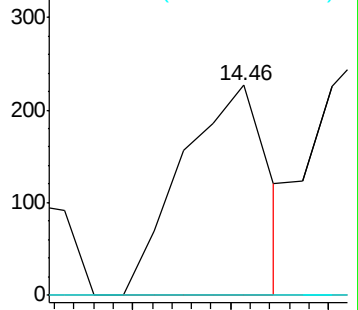
157 0.0 53.8 161.2#



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



#95

Naphthalene

Concen: 56.280 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW015264.D

Acq: 21 Apr 2020 15:57

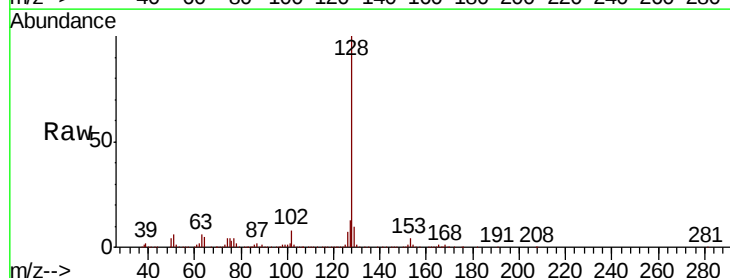
Tgt Ion:128 Resp: 199717

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

129 10.7 8.6 12.8



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

