

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062220\
 Data File : VN062002.D
 Acq On : 22 Jun 2020 16:18
 Operator : JC/MD
 Sample : L3033-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW010-200615

Quant Time: Jun 23 05:17:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	144410	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	265761	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	260365	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	99695	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	99242	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
35) Dibromofluoromethane	7.55	113	85181	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
50) Toluene-d8	10.06	98	336153	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
62) 4-Bromofluorobenzene	12.38	95	111223	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	

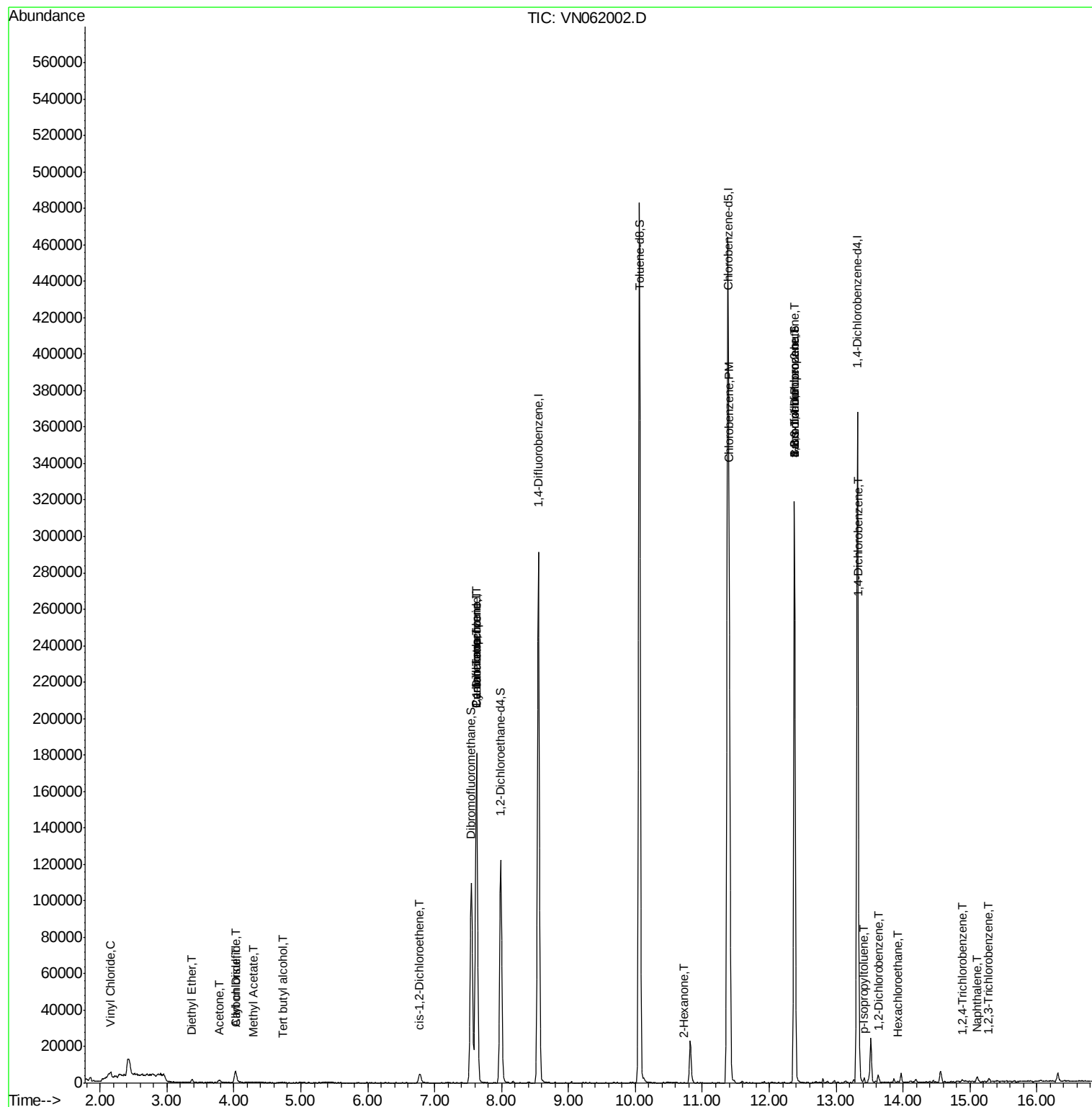
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.16	62	2441	1.022	ug/l	93
8) Diethyl Ether	3.37	74	785	0.818	ug/l	85
11) Tert butyl alcohol	4.72	59	195	0.728	ug/l #	74
14) Allyl chloride	4.02	41	795	0.408	ug/l #	1
16) Acetone	3.79	43	2548	4.454	ug/l	94
17) Carbon Disulfide	4.01	76	1786	0.416	ug/l #	75
18) Methyl Acetate	4.30	43	406	0.247	ug/l #	46
27) cis-1,2-Dichloroethene	6.77	96	669	0.344	ug/l	63
31) Cyclohexane	7.62	56	3669	1.438	ug/l #	30
36) 1,1-Dichloropropene	7.63	75	11773	4.857	ug/l #	46
38) Carbon Tetrachloride	7.62	117	14493	6.038	ug/l #	17
59) 2-Hexanone	10.72	43	62	13.446	ug/l #	20
65) Chlorobenzene	11.41	112	121766	22.164	ug/l	100
71) Bromoform	12.38	173	1024	0.733	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	55397	28.303	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	55397	77.195	ug/l #	14
86) p-Isopropyltoluene	13.42	119	1535	0.265	ug/l	92
88) 1,4-Dichlorobenzene	13.34	146	10602	3.177	ug/l	94
90) Hexachloroethane	13.93	117	383	0.361	ug/l #	15
91) 1,2-Dichlorobenzene	13.63	146	2125	0.677	ug/l	99
93) 1,2,4-Trichlorobenzene	14.89	180	481	0.325	ug/l	93
95) Naphthalene	15.11	128	3441	4.129	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.28	180	791	0.539	ug/l	83

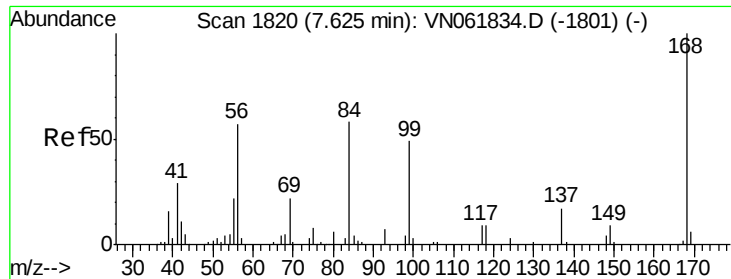
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

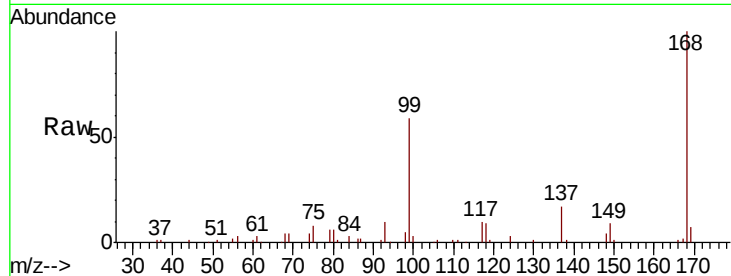
SS043MW010-200615

Tot Ion:168 Resp: 144410

Ion Ratio Lower Upper

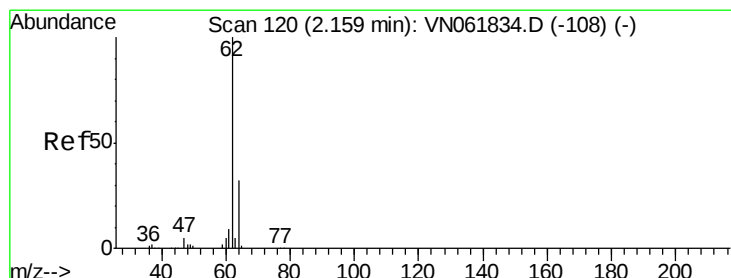
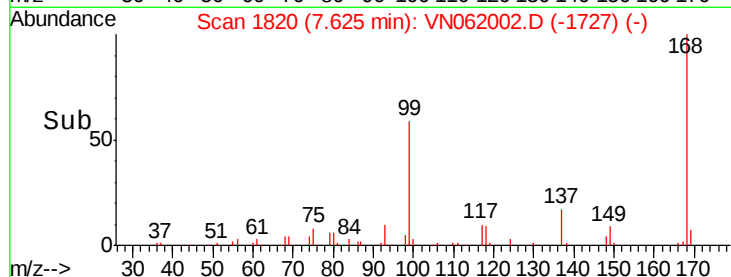
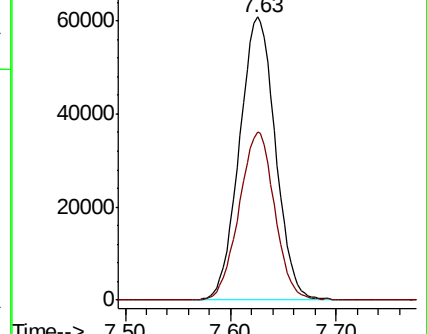
168 100

99 59.2 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#4

Vinyl Chloride

Concen: 1.022 ug/l

RT: 2.16 min Scan# 119

Delta R.T. -0.00 min

Lab File: VN062002.D

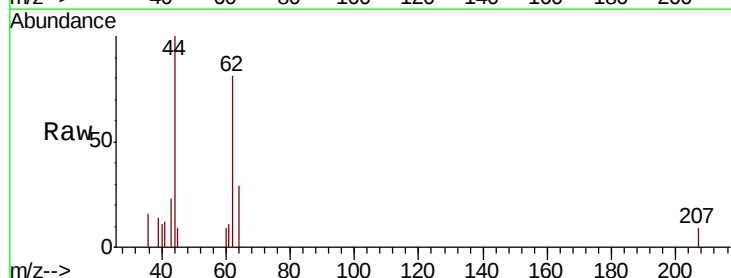
Acq: 22 Jun 2020 16:18

Tgt Ion: 62 Resp: 2441

Ion Ratio Lower Upper

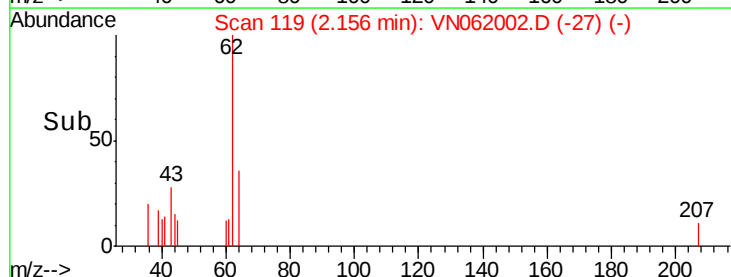
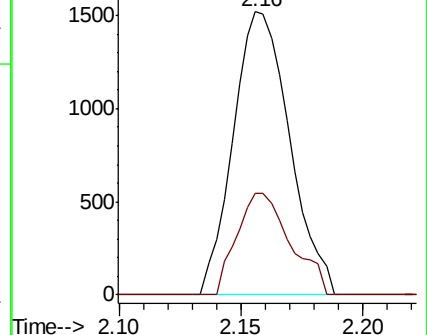
62 100

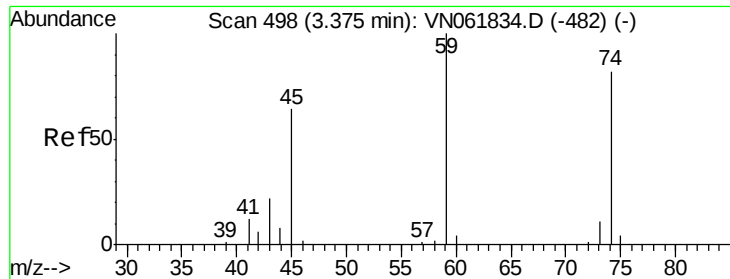
64 36.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#8

Diethyl Ether

Concen: 0.818 ug/l

RT: 3.37 min Scan# 498

Delta R.T. -0.00 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

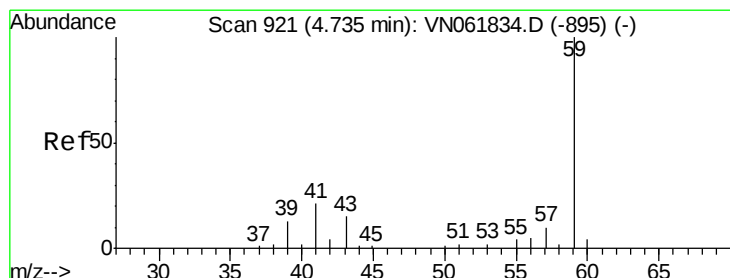
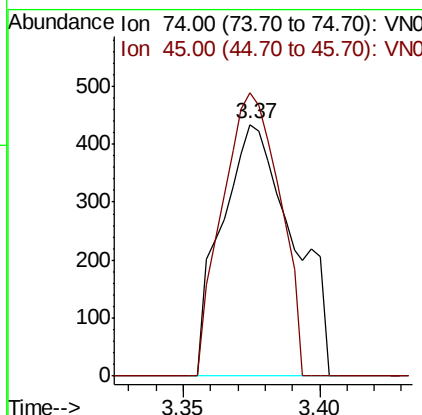
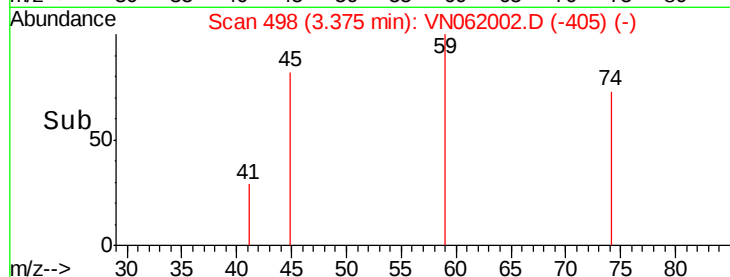
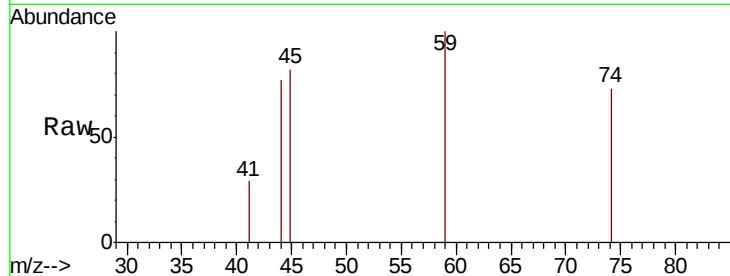
SS043MW010-200615

Tot Ion: 74 Resp: 785

Ion Ratio Lower Upper

74 100

45 91.0 39.1 117.3



#11

Tert butyl alcohol

Concen: 0.728 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.02 min

Lab File: VN062002.D

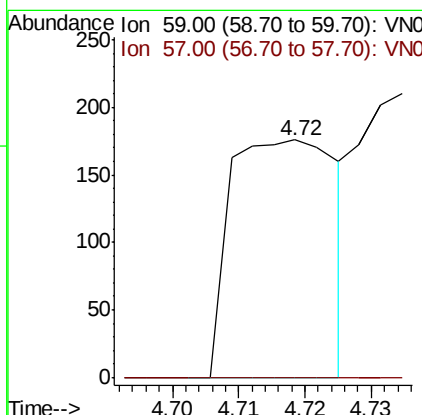
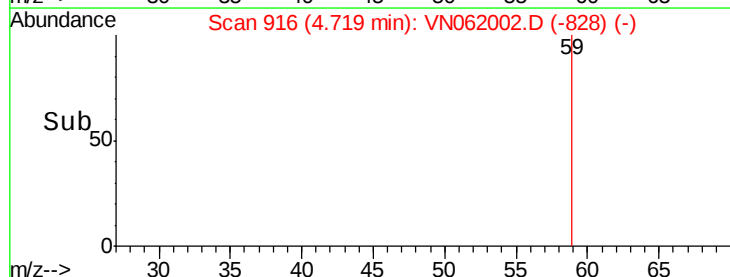
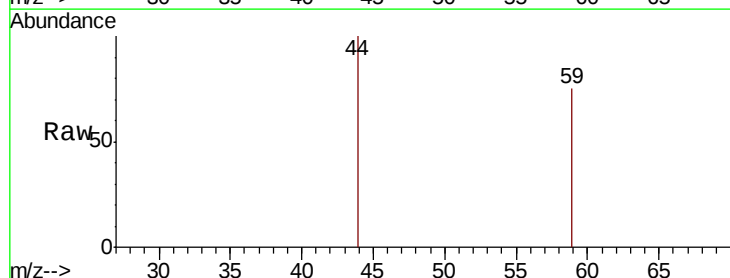
Acq: 22 Jun 2020 16:18

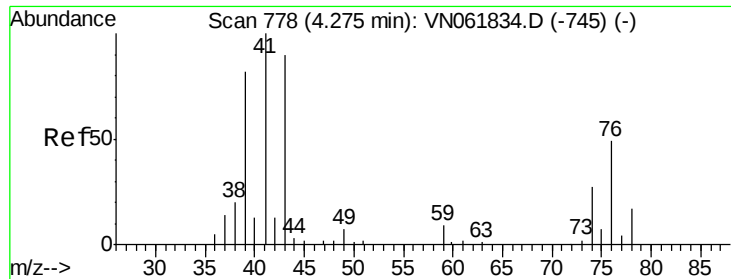
Tgt Ion: 59 Resp: 195

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#

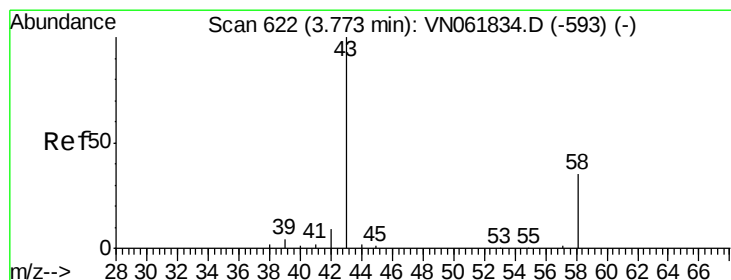
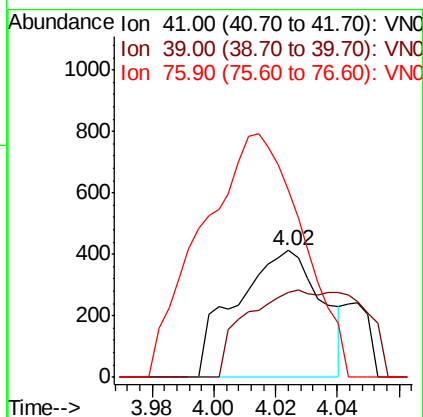
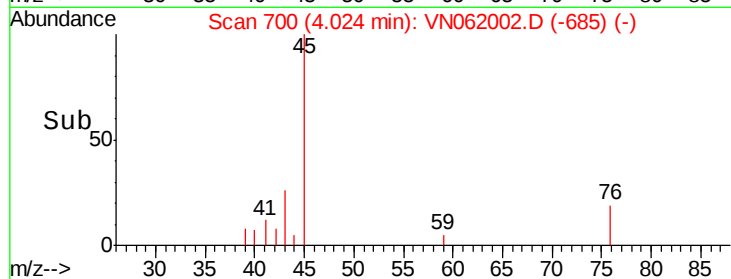
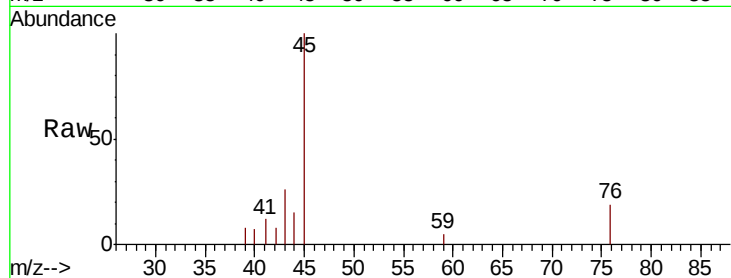




#14
Allvl chloride
Concen: 0.408 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.25 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

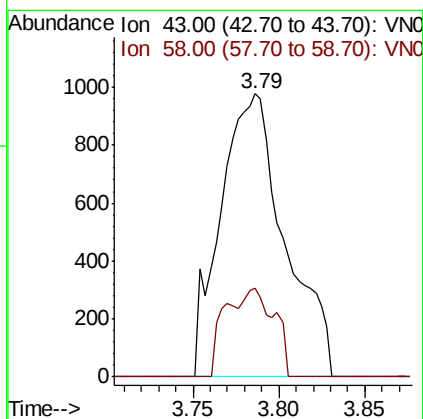
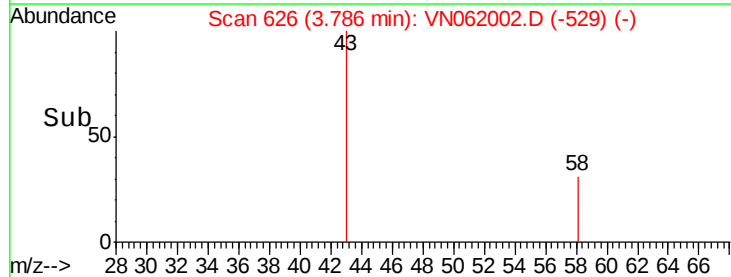
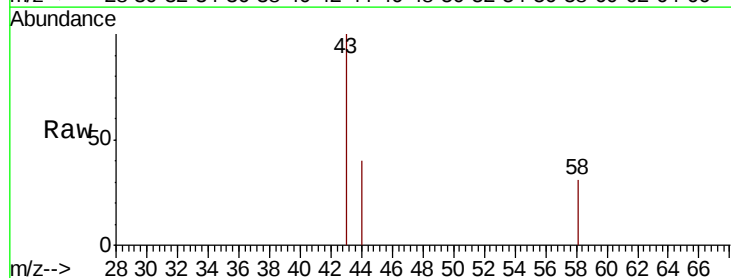
Instrument :
MSVOA_N
ClientSampleId :
SS043MW010-200615

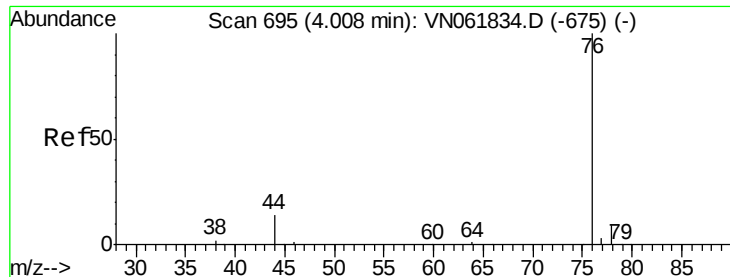
Tot Ion: 41 Resp: 795
Ion Ratio Lower Upper
41 100
39 57.5 60.2 90.2#
76 220.8 36.3 54.5#



#16
Acetone
Concen: 4.454 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

Tgt Ion: 43 Resp: 2548
Ion Ratio Lower Upper
43 100
58 31.2 27.8 41.8

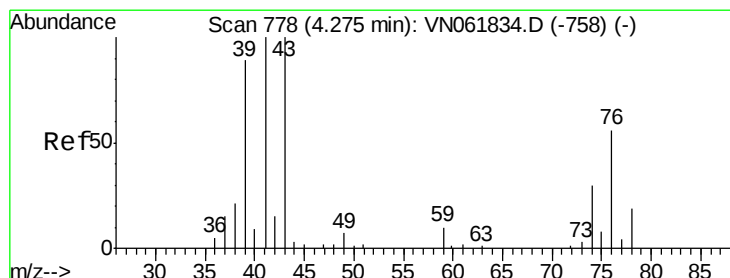
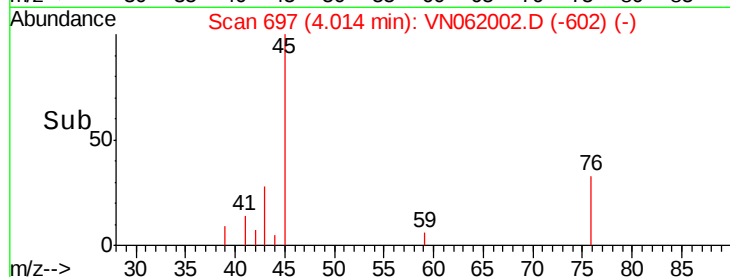
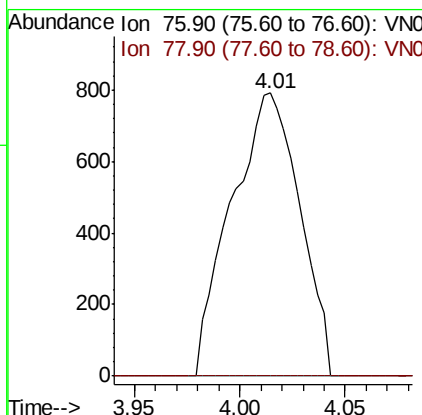
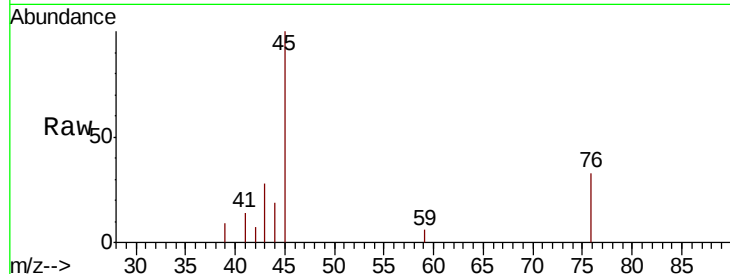




#17
Carbon Disulfide
Concen: 0.416 ug/l
RT: 4.01 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

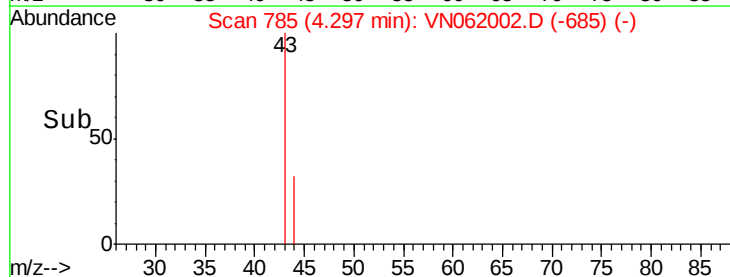
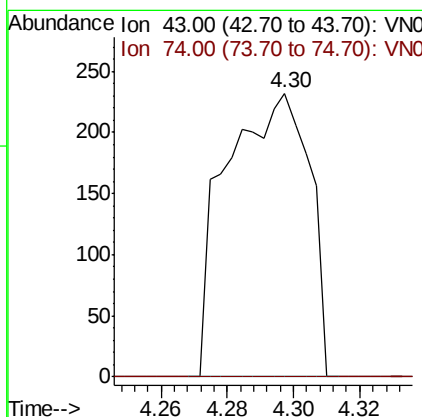
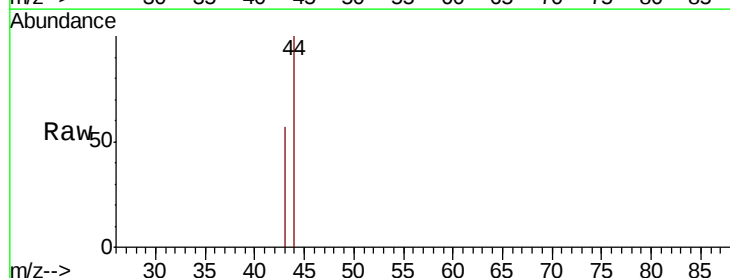
Instrument :
MSVOA_N
ClientSampleId :
SS043MW010-200615

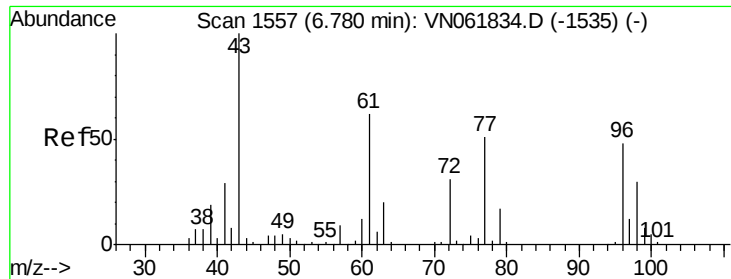
Tot Ion: 76 Resp: 1786
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#18
Methyl Acetate
Concen: 0.247 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.02 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

Tgt Ion: 43 Resp: 406
Ion Ratio Lower Upper
43 100
74 0.0 23.0 34.4#





#27

cis-1,2-Dichloroethene

Concen: 0.344 ug/l

RT: 6.77 min Scan# 1555

Delta R.T. -0.01 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

SS043MW010-200615

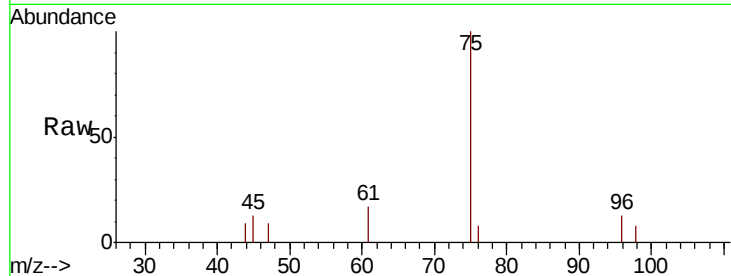
Tot Ion: 96 Resp: 669

Ion Ratio Lower Upper

96 100

61 99.7 0.0 265.6

98 20.9 0.0 128.2



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

600

500

400

300

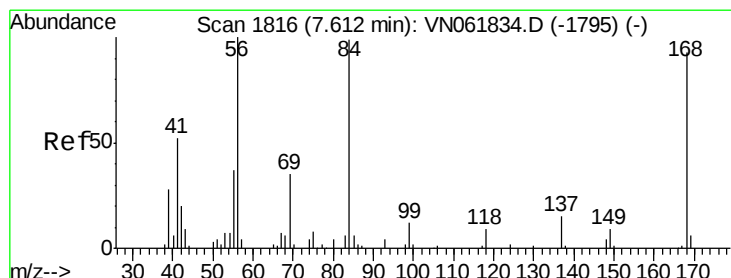
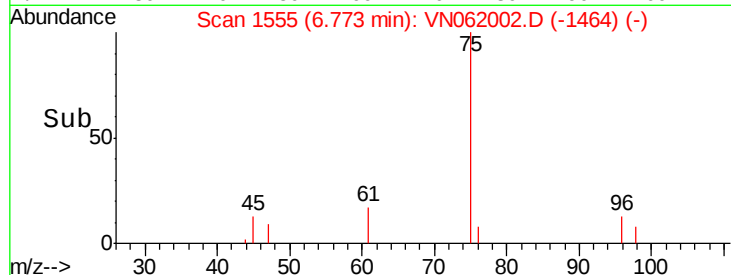
200

100

0

6.74 6.76 6.78 6.80 6.82

Time-->



#31

Cyclohexane

Concen: 1.438 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

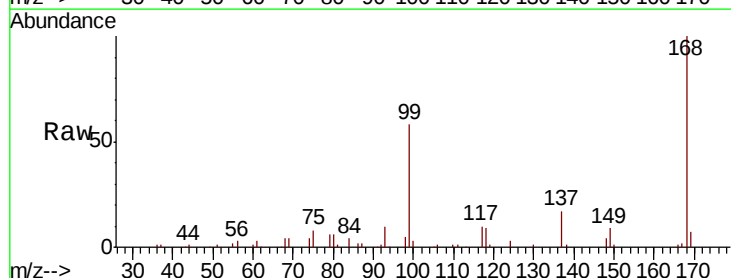
Tgt Ion: 56 Resp: 3669

Ion Ratio Lower Upper

56 100

69 136.1 27.7 41.5#

84 131.6 79.1 118.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

3000

2500

2000

1500

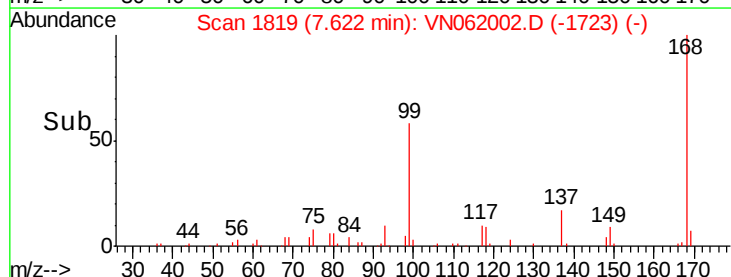
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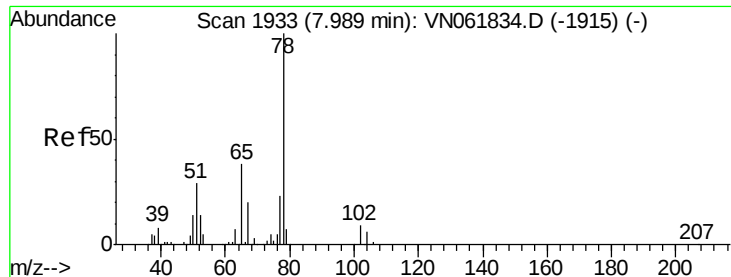
500

0

7.55 7.60 7.65

Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.241 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

Instrument :

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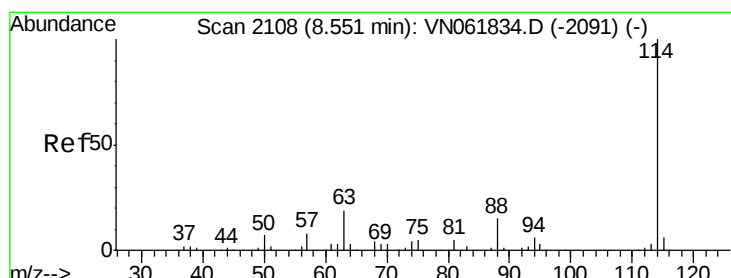
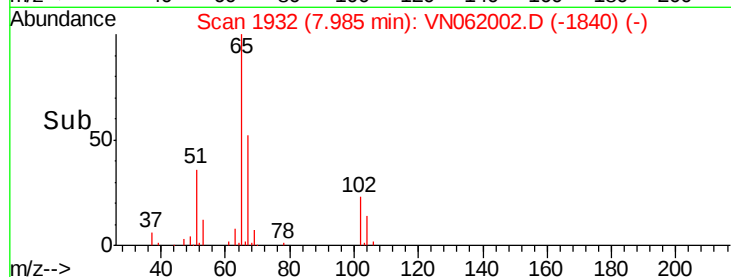
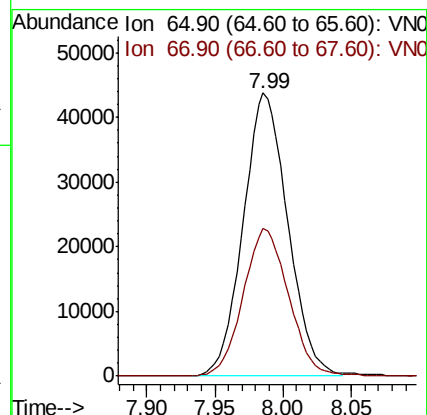
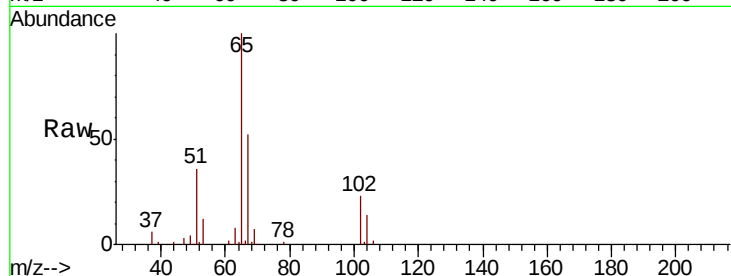
SS043MW010-200615

Tot Ion: 65 Resp: 99242

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

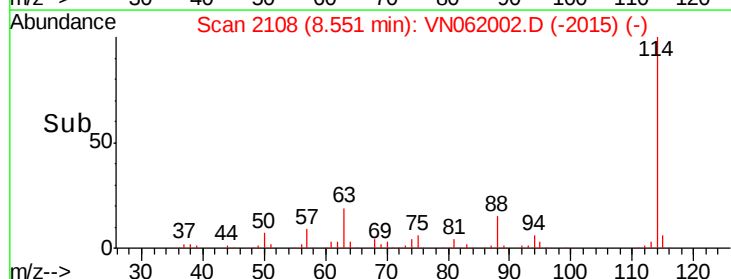
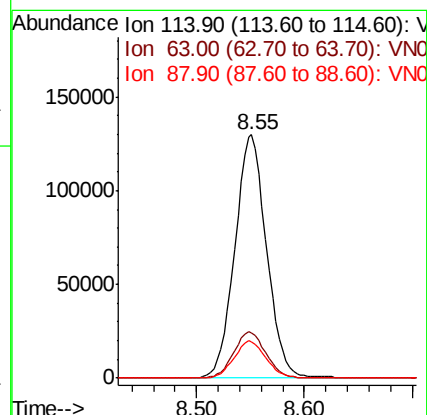
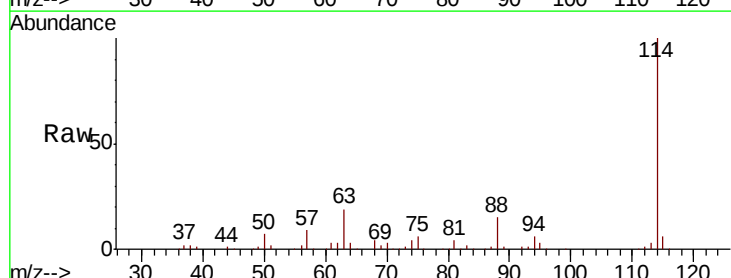
Tgt Ion: 114 Resp: 265761

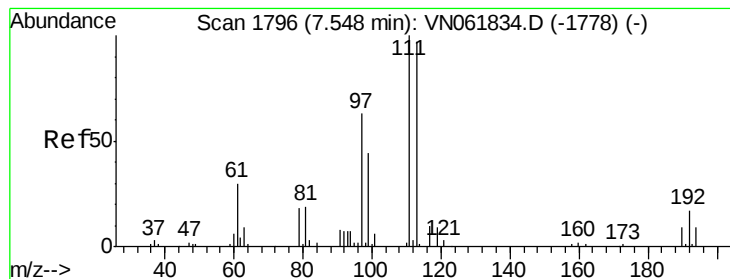
Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.6

88 14.9 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.101 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

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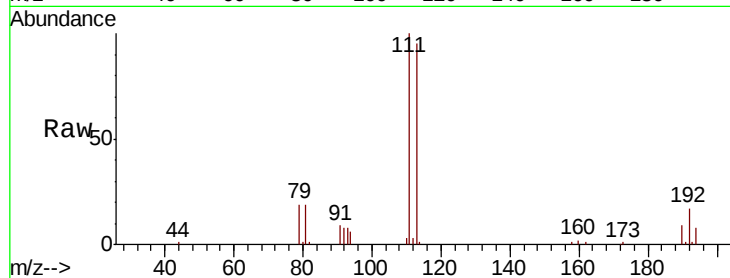
Tot Ion:113 Resp: 85181

Ion Ratio Lower Upper

113 100

111 104.2 83.7 125.5

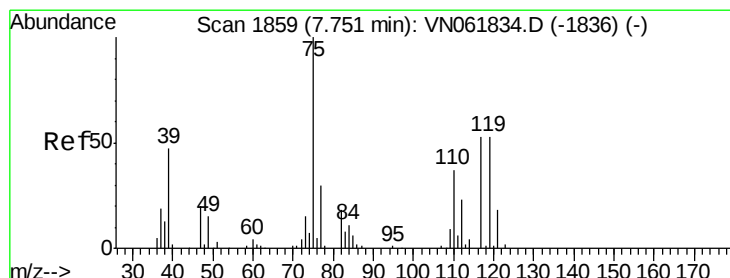
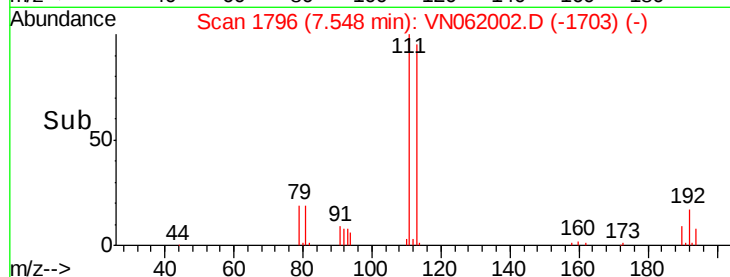
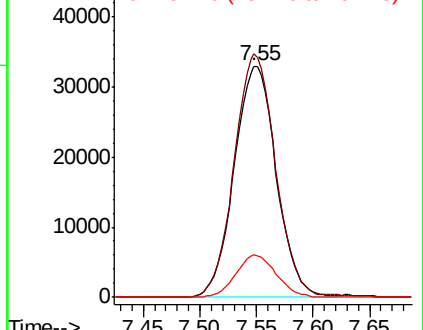
192 17.6 13.9 20.9



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: 4.857 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.12 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

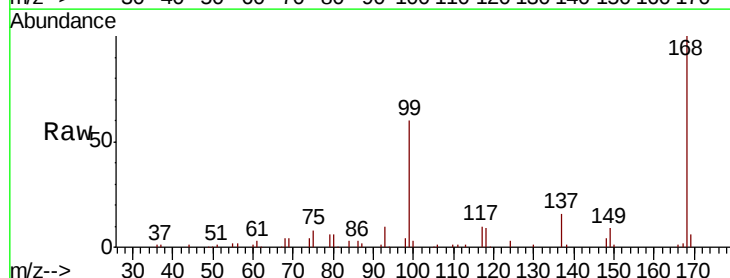
Tgt Ion: 75 Resp: 11773

Ion Ratio Lower Upper

75 100

110 5.3 18.2 54.6#

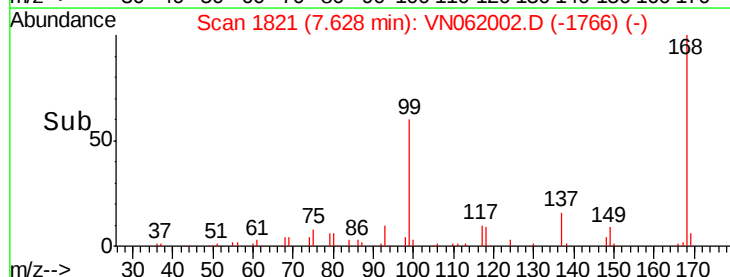
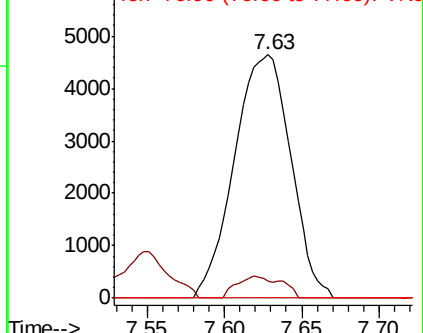
77 0.0 24.2 36.4#

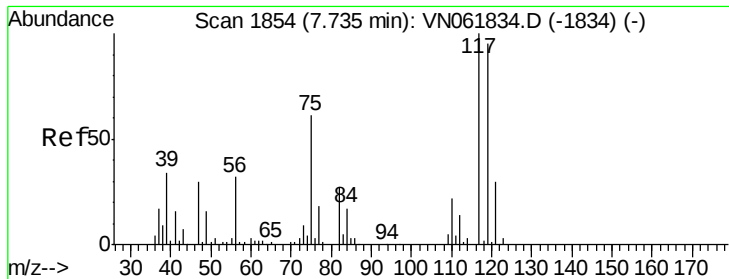


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.038 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

SS043MW010-200615

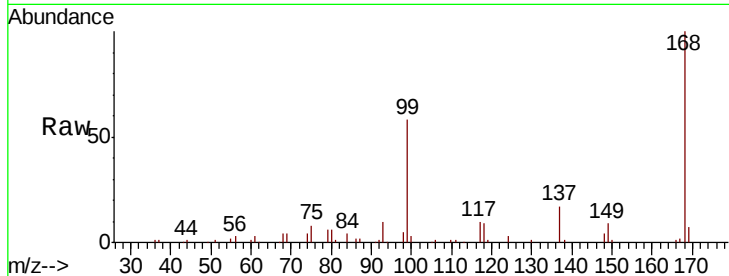
Tot Ion:117 Resp: 14493

Ion Ratio Lower Upper

117 100

119 6.1 75.8 113.6#

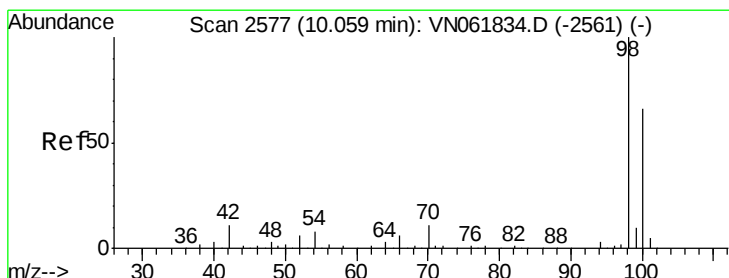
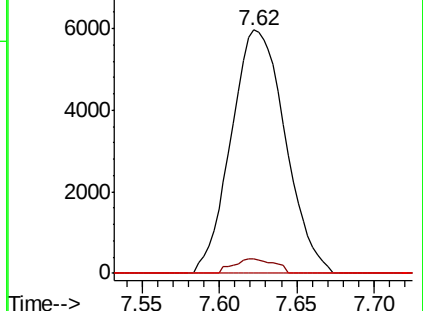
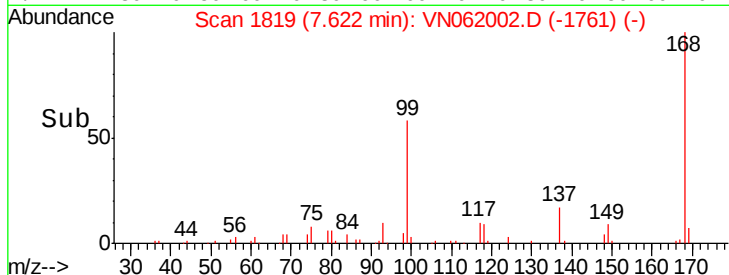
121 0.0 23.8 35.6#



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



#50

Toluene-d8

Concen: 50.291 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062002.D

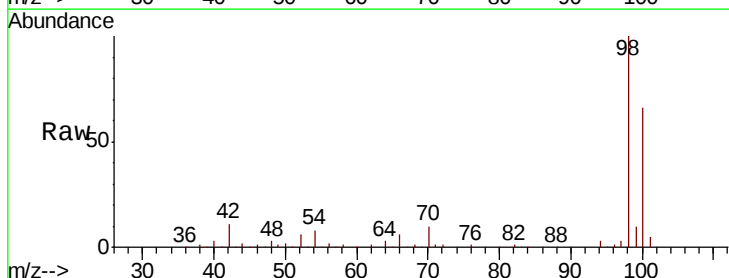
Acq: 22 Jun 2020 16:18

Tgt Ion: 98 Resp: 336153

Ion Ratio Lower Upper

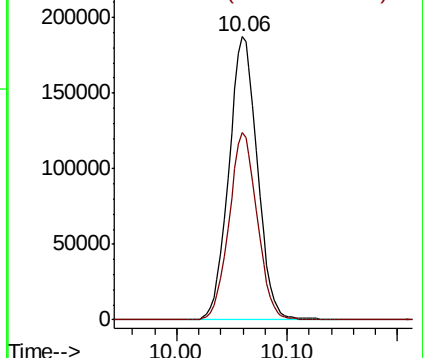
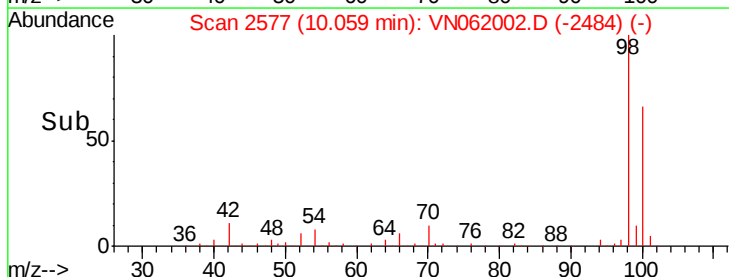
98 100

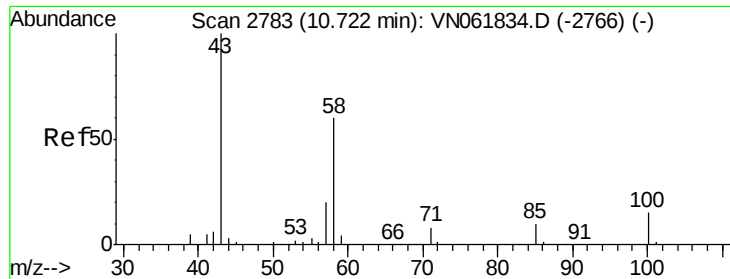
100 65.2 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

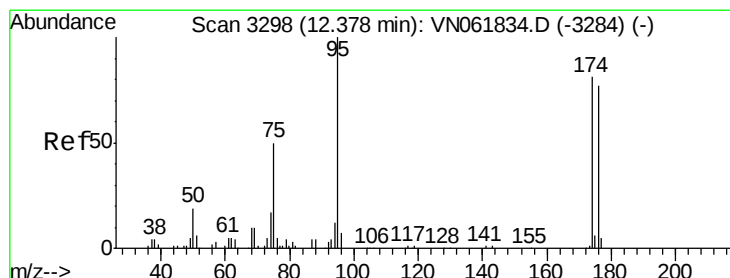
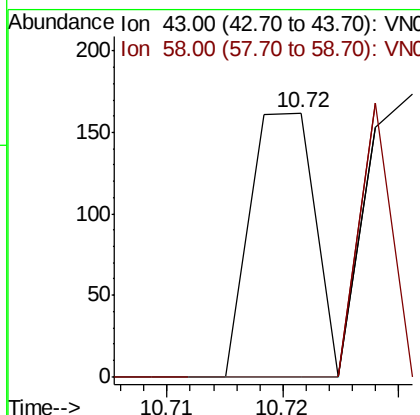
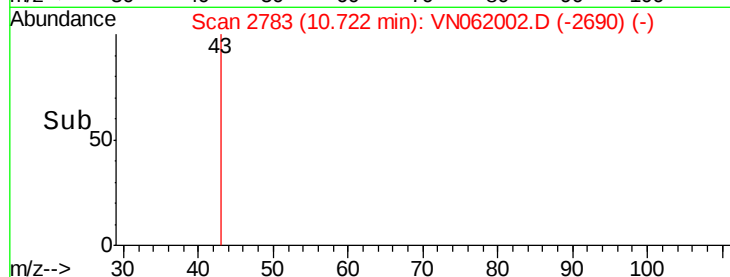
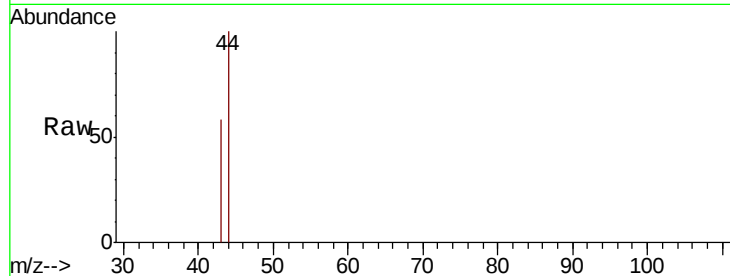




#59
2-Hexanone
Concen: 13.446 ug/l
RT: 10.72 min Scan# 2783
Delta R.T. 0.00 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

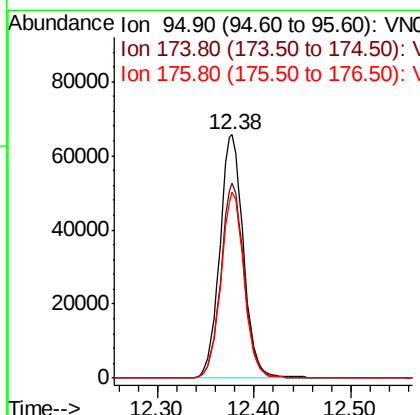
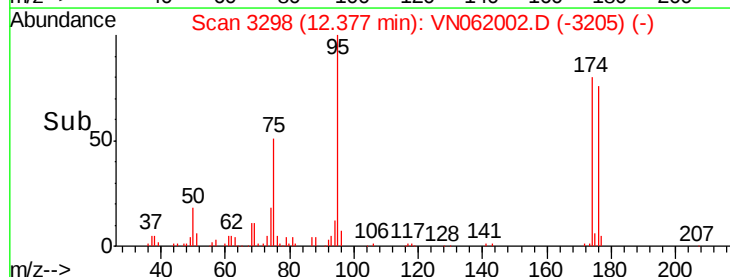
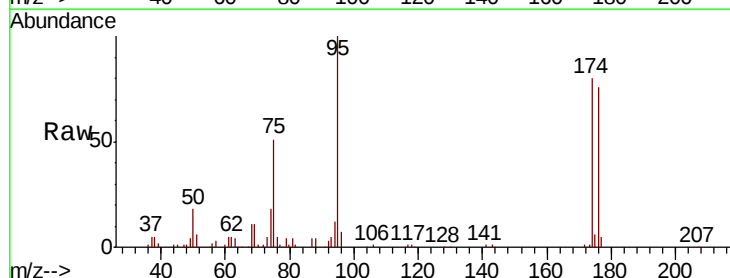
Instrument :
MSVOA_N
ClientSampleId :
SS043MW010-200615

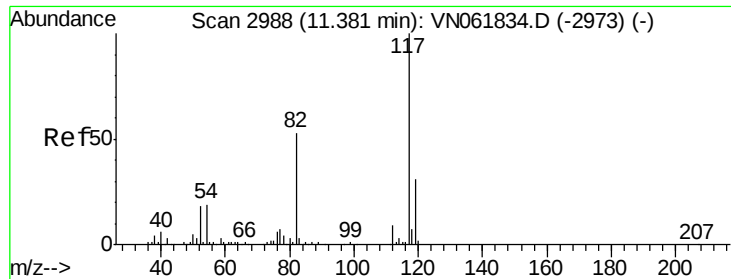
Tot Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 30.1 90.5#



#62
4-Bromofluorobenzene
Concen: 48.510 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

Tgt Ion: 95 Resp: 111223
Ion Ratio Lower Upper
95 100
174 79.0 0.0 158.6
176 74.6 0.0 152.0

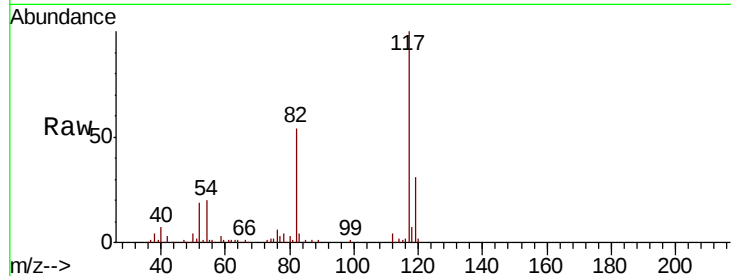




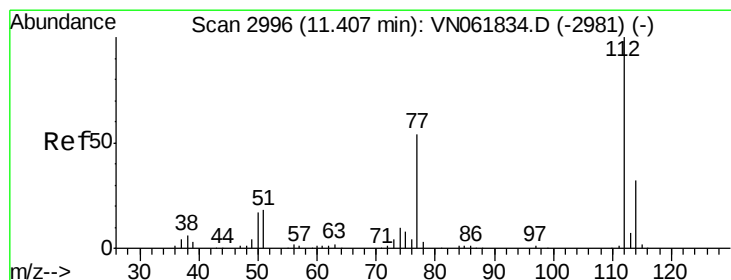
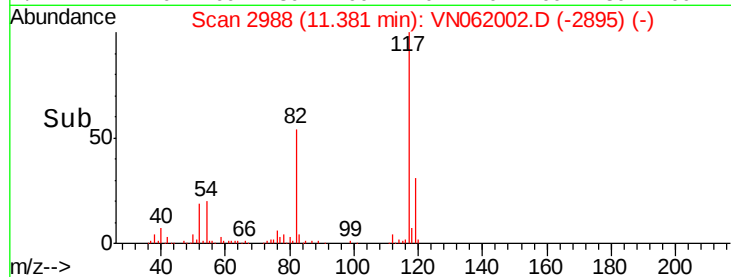
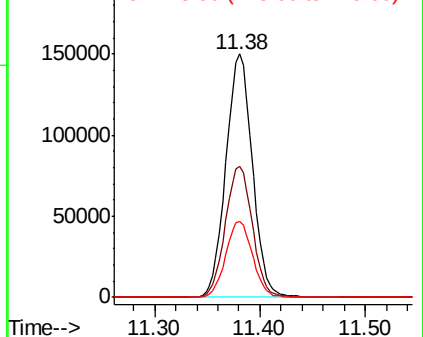
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
SS043MW010-200615

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	42.6	64.0
119	31.3	24.7	37.1

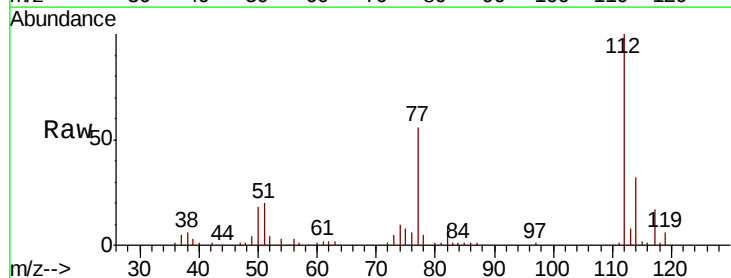


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

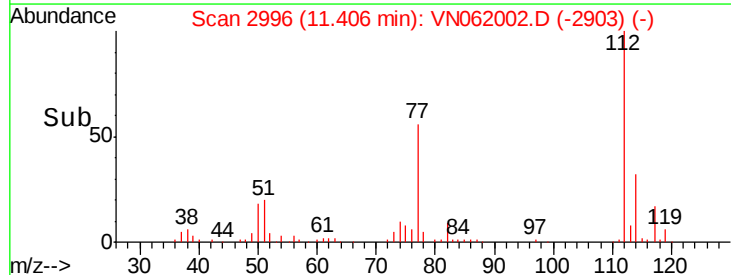
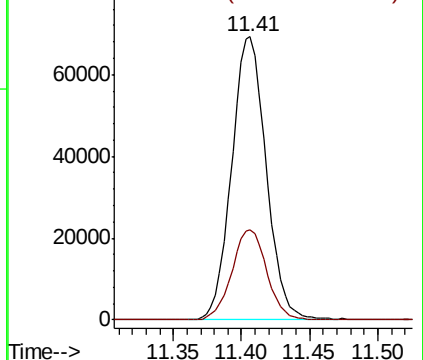


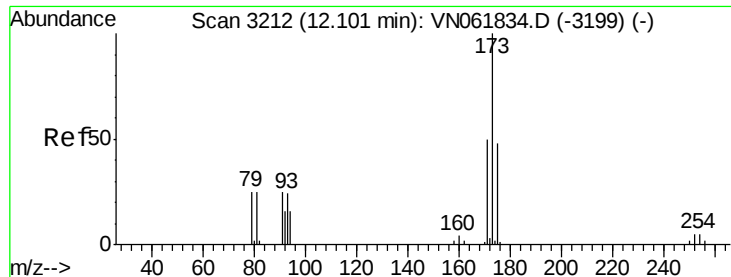
#65
Chlorobenzene
Concen: 22.164 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.8	38.6



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#71

Bromoform

Concen: 0.733 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

SS043MW010-200615

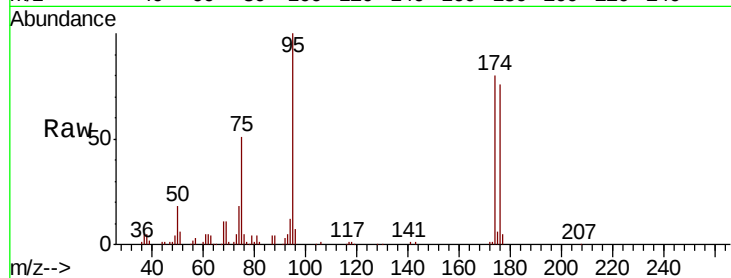
Tot Ion:173 Resp: 1024

Ion Ratio Lower Upper

173 100

175 528.6 23.9 71.7#

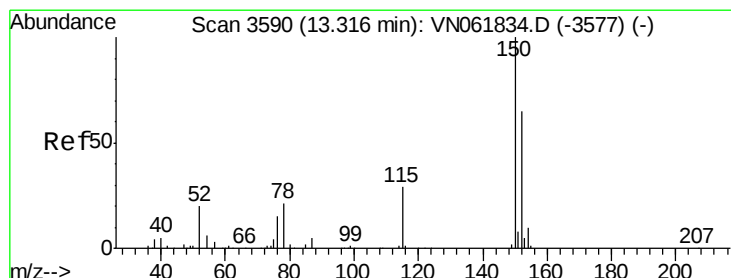
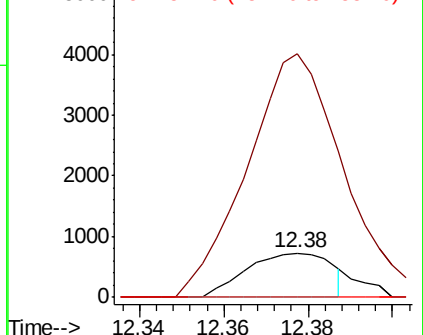
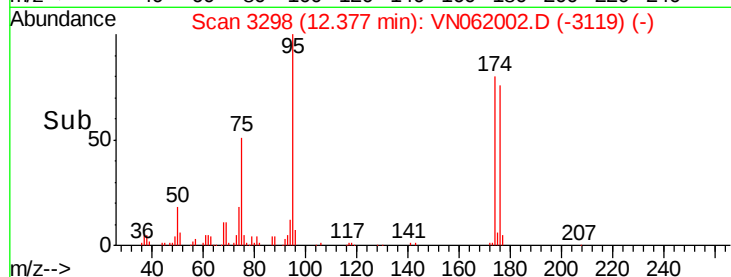
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

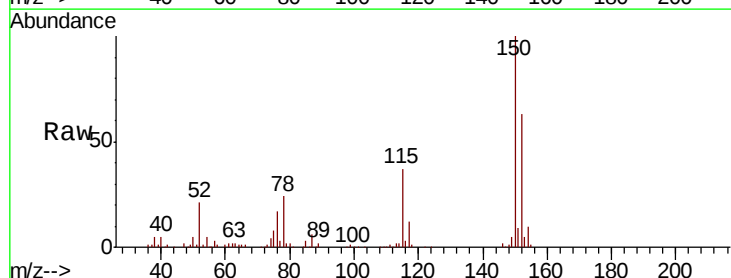
Tgt Ion:152 Resp: 99695

Ion Ratio Lower Upper

152 100

115 57.8 29.1 87.3

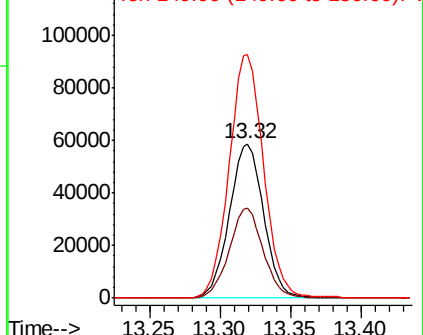
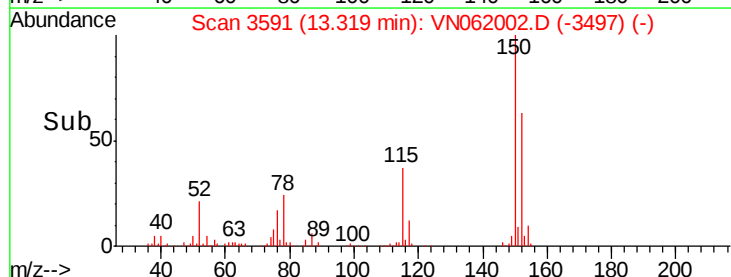
150 159.4 0.0 347.6

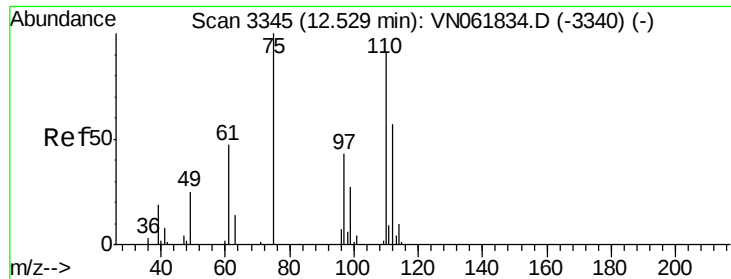


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.303 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

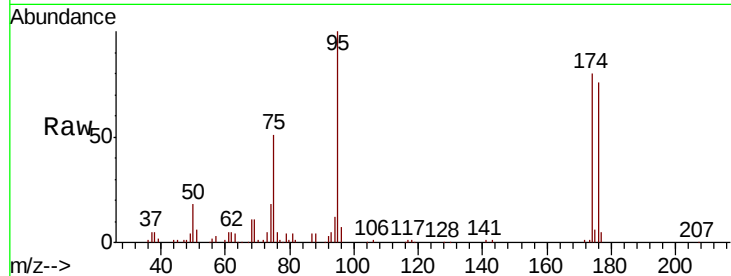
SS043MW010-200615

Tot Ion: 75 Resp: 55397

Ion Ratio Lower Upper

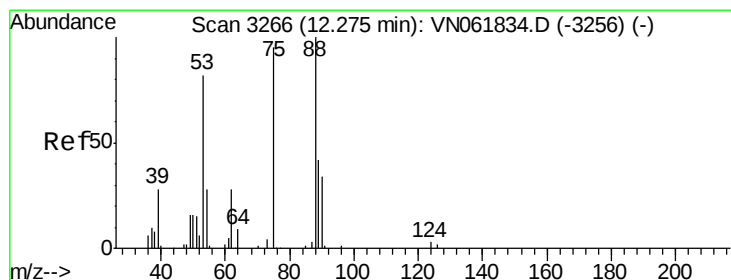
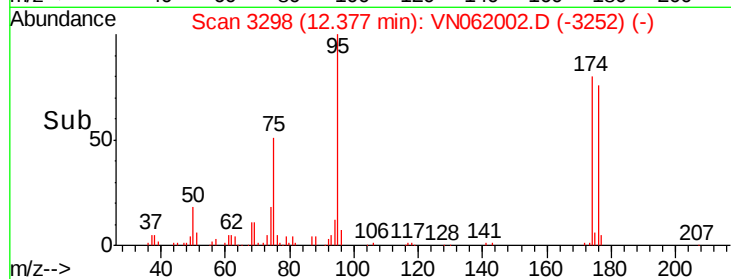
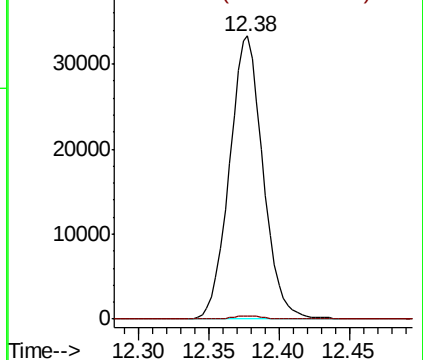
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 77.195 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062002.D

Acq: 22 Jun 2020 16:18

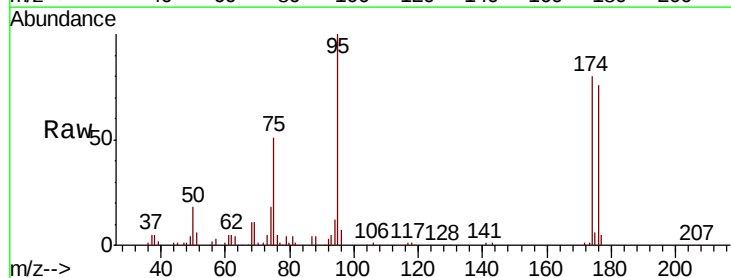
Tgt Ion: 75 Resp: 55397

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

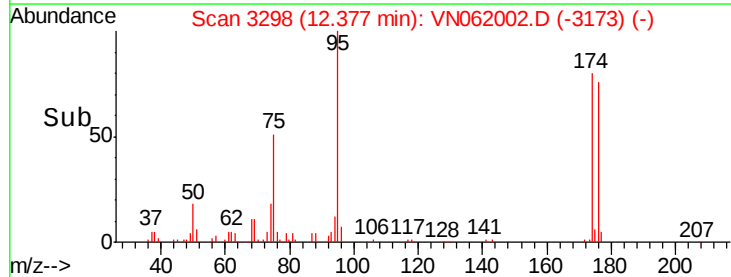
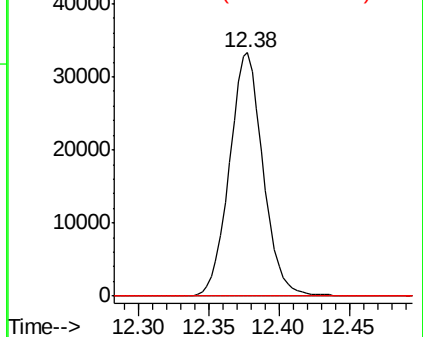
89 0.0 36.0 54.0#

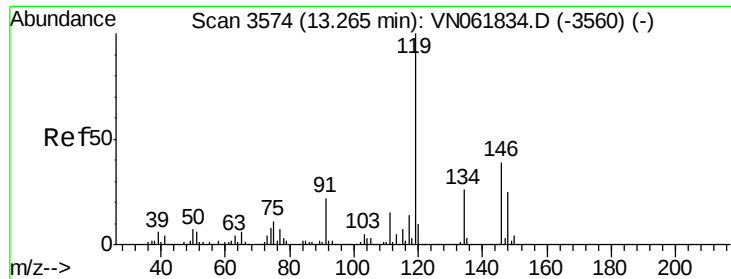


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

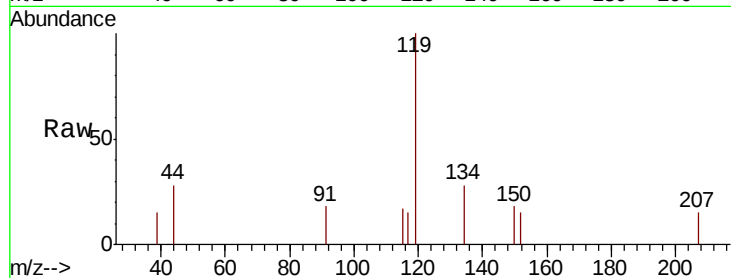




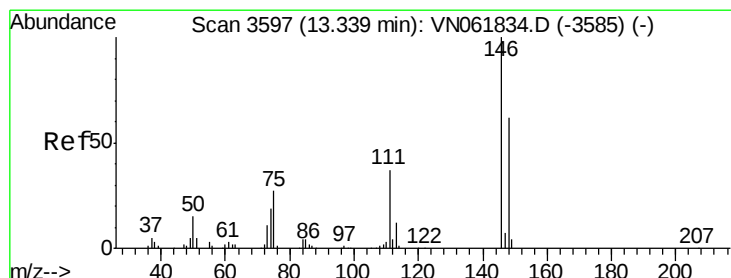
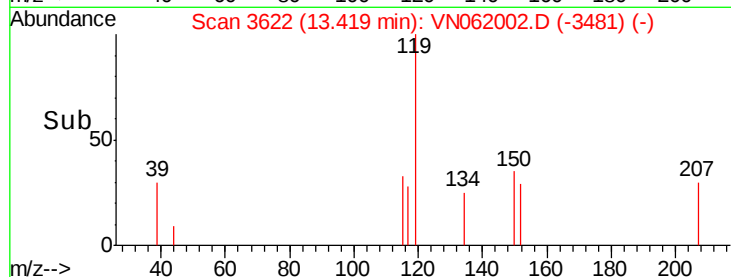
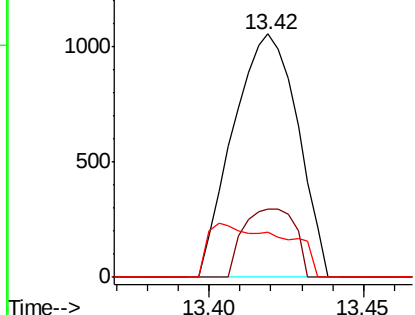
#86
p-Isopropyltoluene
Concen: 0.265 ug/l
RT: 13.42 min Scan# 3622
Delta R.T. 0.15 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

Instrument :
MSVOA_N
ClientSampleId :
SS043MW010-200615

Tot Ion:119 Resp: 1535
Ion Ratio Lower Upper
119 100
134 22.3 13.3 39.9
91 26.5 11.2 33.6

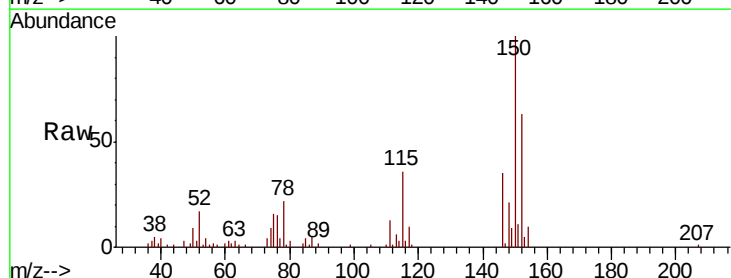


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

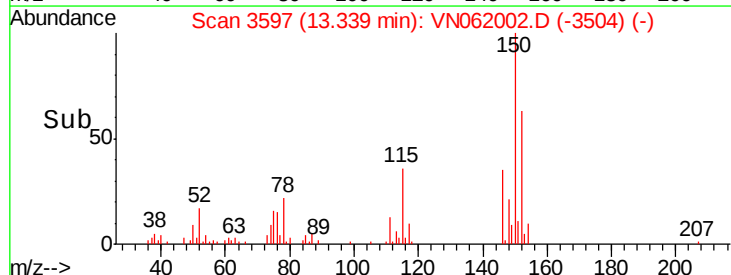
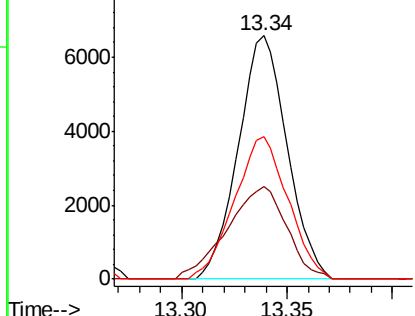


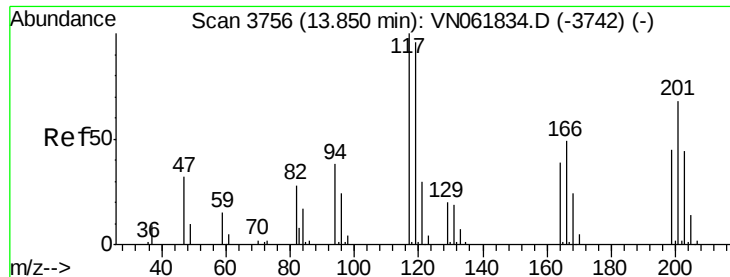
#88
1,4-Dichlorobenzene
Concen: 3.177 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

Tgt Ion:146 Resp: 10602
Ion Ratio Lower Upper
146 100
111 46.2 19.3 57.8
148 64.1 31.6 94.7



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

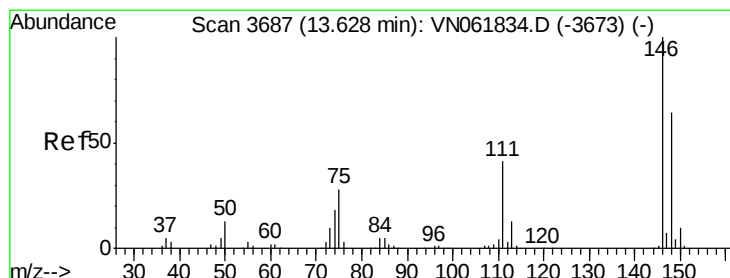
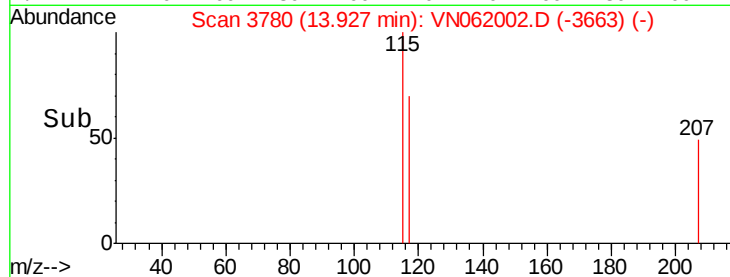
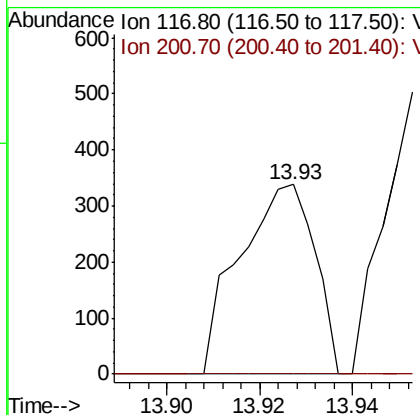
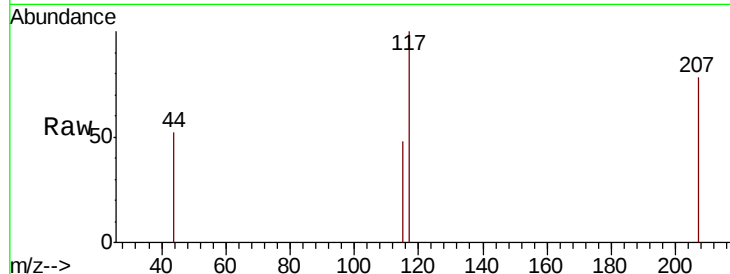




#90
Hexachloroethane
Concen: 0.361 ug/l
RT: 13.93 min Scan# 3780
Delta R.T. 0.08 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

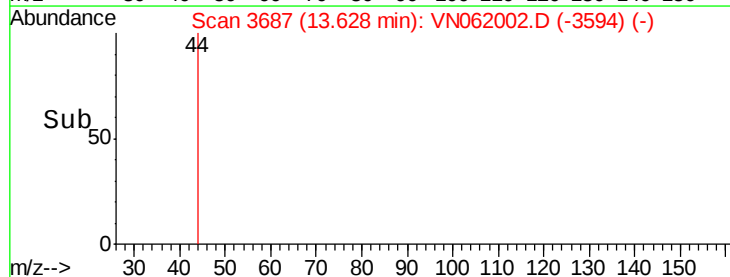
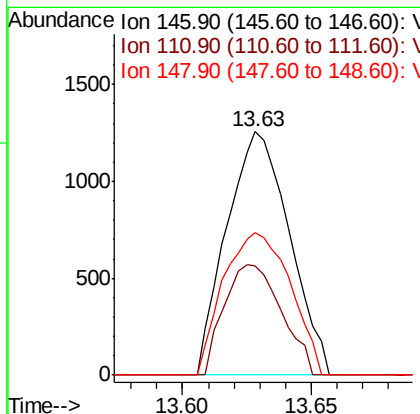
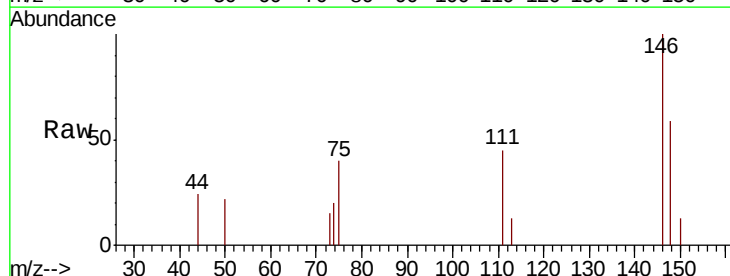
Instrument :
MSVOA_N
ClientSampleId :
SS043MW010-200615

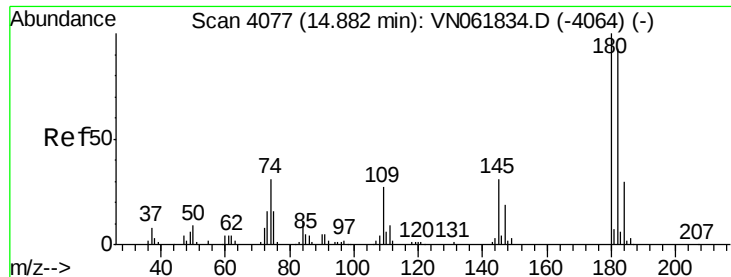
Tot Ion:117 Resp: 383
Ion Ratio Lower Upper
117 100
201 0.0 34.6 103.8#



#91
1,2-Dichlorobenzene
Concen: 0.677 ug/l
RT: 13.63 min Scan# 3687
Delta R.T. -0.00 min
Lab File: VN062002.D
Acq: 22 Jun 2020 16:18

Tgt Ion:146 Resp: 2125
Ion Ratio Lower Upper
146 100
111 41.3 20.4 61.2
148 62.5 31.8 95.4

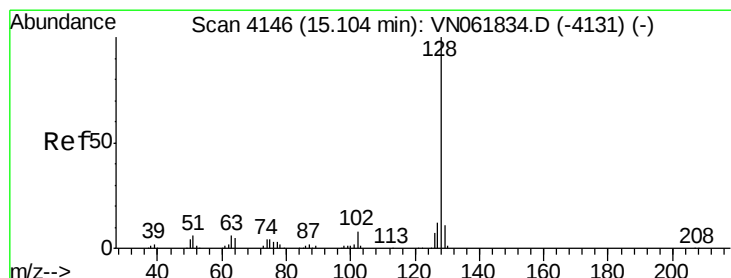
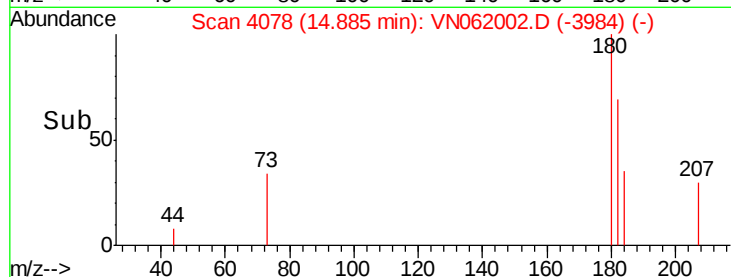
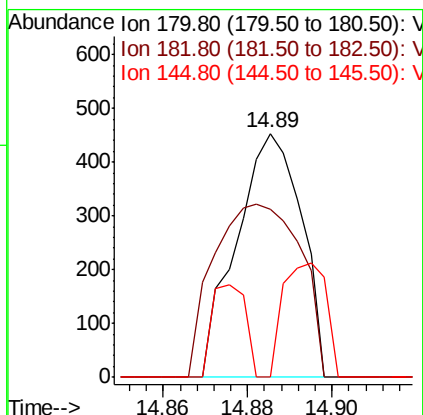
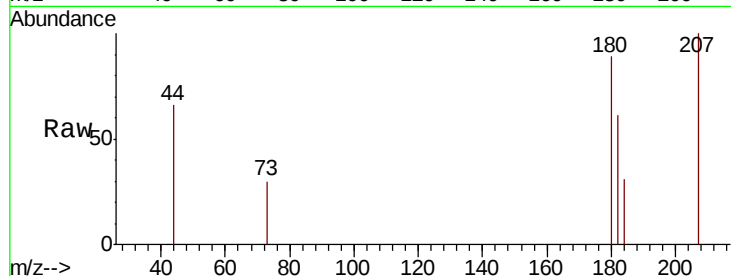




#93
 1,2,4-Trichlorobenzene
 Concen: 0.325 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN062002.D
 Acq: 22 Jun 2020 16:18

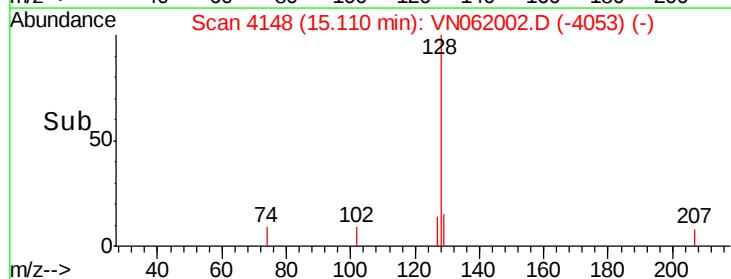
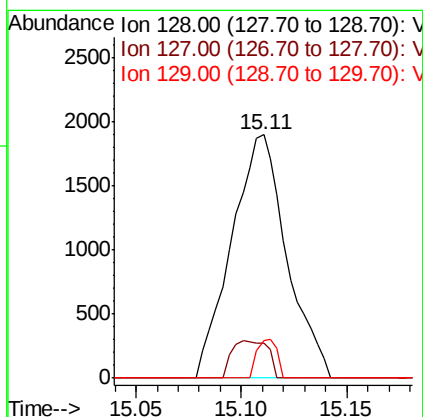
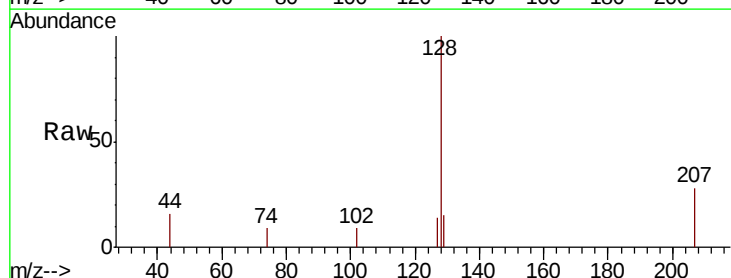
Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW010-200615

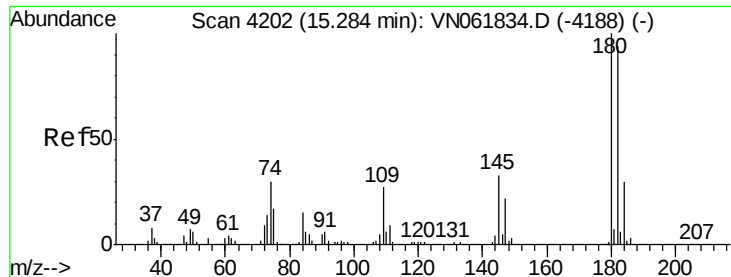
Tot Ion:180 Resp: 481
 Ion Ratio Lower Upper
 180 100
 182 95.6 47.0 141.2
 145 19.8 15.8 47.3



#95
 Naphthalene
 Concen: 4.129 ug/l
 RT: 15.11 min Scan# 4148
 Delta R.T. 0.01 min
 Lab File: VN062002.D
 Acq: 22 Jun 2020 16:18

Tgt Ion:128 Resp: 3441
 Ion Ratio Lower Upper
 128 100
 127 10.1 10.3 15.5#
 129 5.8 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.539 ug/l
 RT: 15.28 min Scan# 4202
 Delta R.T. -0.00 min
 Lab File: VN062002.D
 Acq: 22 Jun 2020 16:18

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW010-200615

Tot Ion:	180	Resp:	791
Ion	Ratio	Lower	Upper
180	100		
182	111.3	47.9	143.6
145	21.0	16.5	49.5

