

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032319\
 Data File : VN054621.D
 Acq On : 23 Mar 2019 23:45
 Operator : JC/SP
 Sample : K2045-10DL 10X
 Misc : 5.38g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB435-190318-(20-22)DL

Quant Time: Mar 25 03:39:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

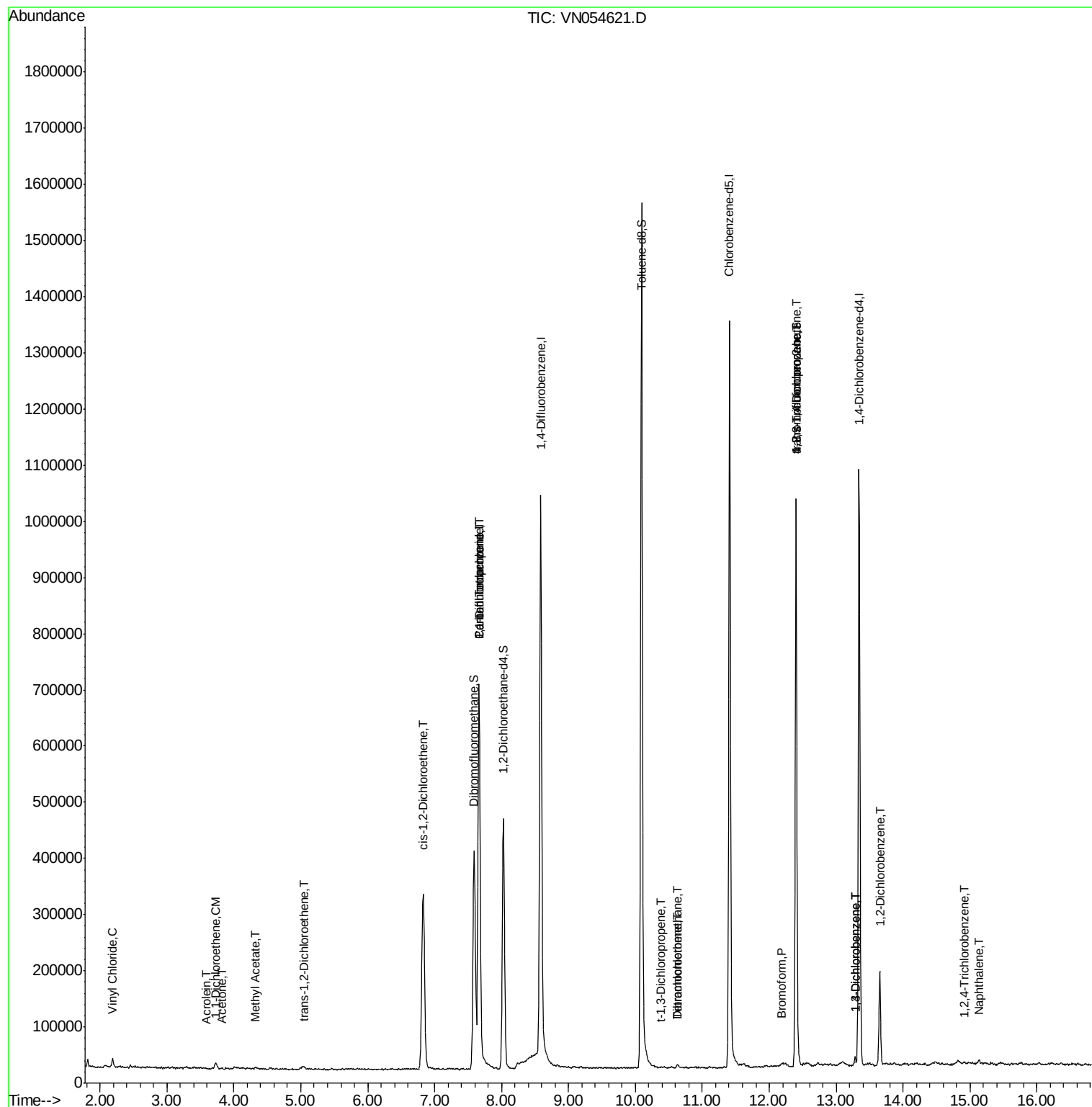
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	593839	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	932218	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	781044	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	281777	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	381345	51.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.26%	
35) Dibromofluoromethane	7.59	113	294684	49.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.14%	
50) Toluene-d8	10.09	98	1112704	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
62) 4-Bromofluorobenzene	12.40	95	345322	44.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.90%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.19	62	13004	1.677	ug/l	100
12) 1,1-Dichloroethene	3.73	96	4311	0.753	ug/l	90
13) Acrolein	3.60	56	174	0.282	ug/l #	1
16) Acetone	3.83	43	460	0.207	ug/l	100
18) Methyl Acetate	4.33	43	2373	0.479	ug/l #	69
21) trans-1,2-Dichloroethene	5.04	96	2769	0.473	ug/l	90
27) cis-1,2-Dichloroethene	6.83	96	200235	28.703	ug/l	95
31) Cyclohexane	7.66	56	13627	Below Cal	#	21
36) 1,1-Dichloropropene	7.66	75	43914	5.038	ug/l #	42
38) Carbon Tetrachloride	7.66	117	56171	6.632	ug/l #	15
53) t-1,3-Dichloropropene	10.38	75	60	2.239	ug/l #	57
60) Dibromochloromethane	10.63	129	1506	0.257	ug/l #	11
64) Tetrachloroethene	10.63	164	1449	0.224	ug/l #	82
71) Bromoform	12.17	173	105	2.246	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	178337	39.884	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	178337	131.945	ug/l #	11
87) 1,3-Dichlorobenzene	13.28	146	4746	0.509	ug/l	88
88) 1,4-Dichlorobenzene	13.28	146	4746	0.523	ug/l	87
91) 1,2-Dichlorobenzene	13.65	146	68016	7.525	ug/l	97
93) 1,2,4-Trichlorobenzene	14.91	180	1132	0.251	ug/l #	75
94) Hexachlorobutadiene	15.01	225	29	Below Cal	#	28
95) Naphthalene	15.13	128	7726	0.769	ug/l #	92

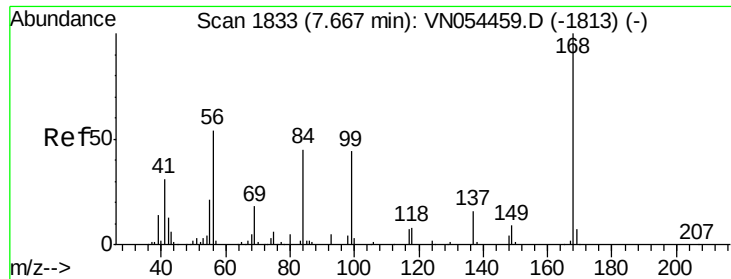
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054621.D

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MSVOA_N

ClientSampleId :

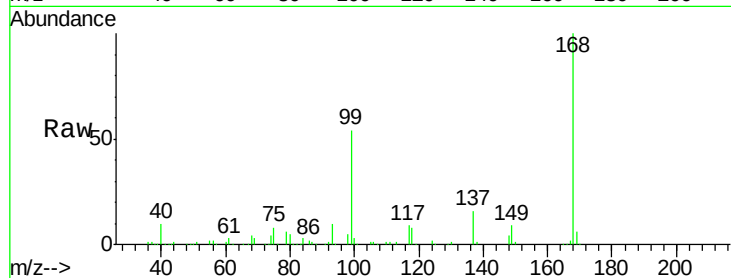
WP022SB435-190318-(20-22)DL

Tot Ion:168 Resp: 593839

Ion Ratio Lower Upper

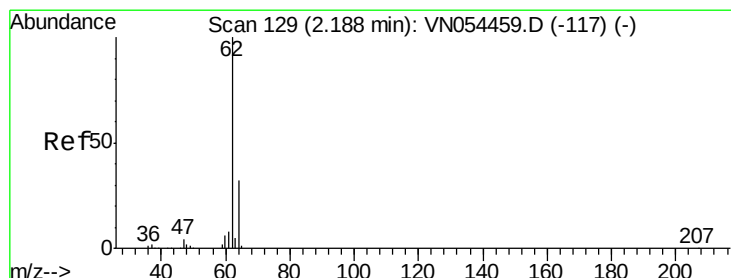
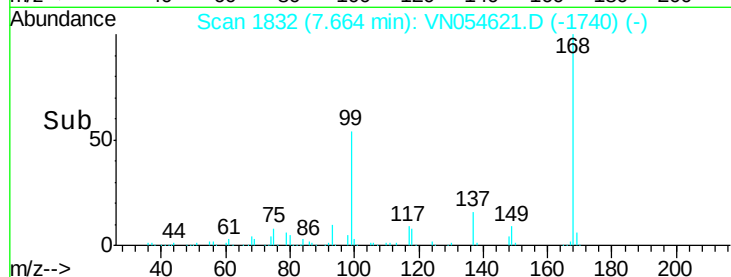
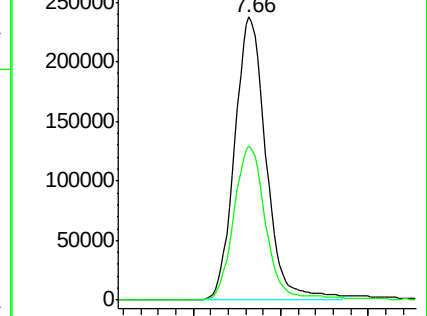
168 100

99 54.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#4

Vinyl Chloride

Concen: 1.677 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054621.D

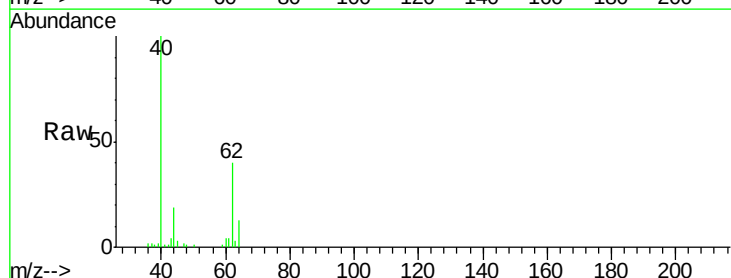
Acq: 23 Mar 2019 23:45

Tgt Ion: 62 Resp: 13004

Ion Ratio Lower Upper

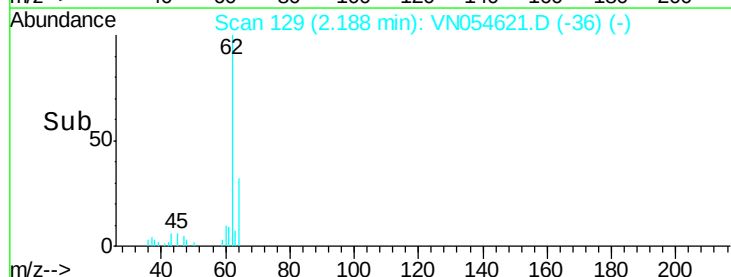
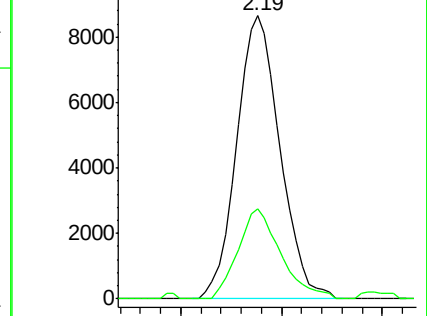
62 100

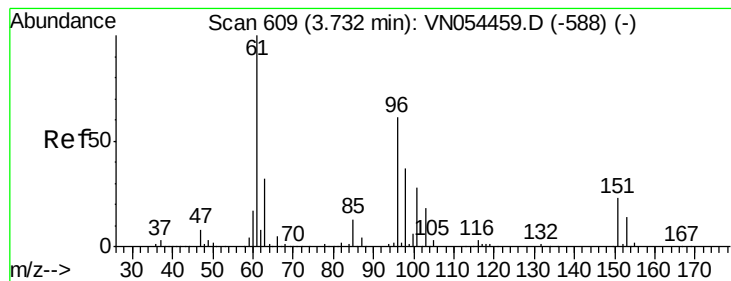
64 32.0 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#12

1,1-Dichloroethene

Concen: 0.753 ug/l

RT: 3.73 min Scan# 607

Delta R.T. -0.01 min

Lab File: VN054621.D

Acq: 23 Mar 2019 23:45

Instrument :

MSVOA_N

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WP022SB435-190318-(20-22)DL

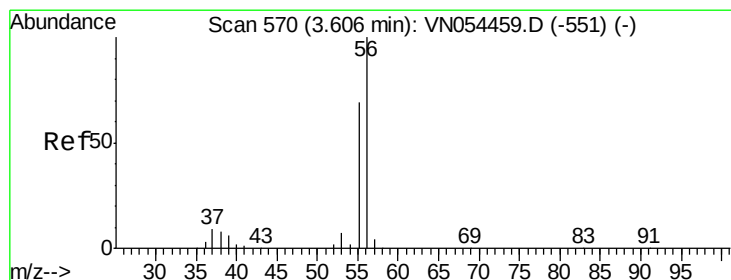
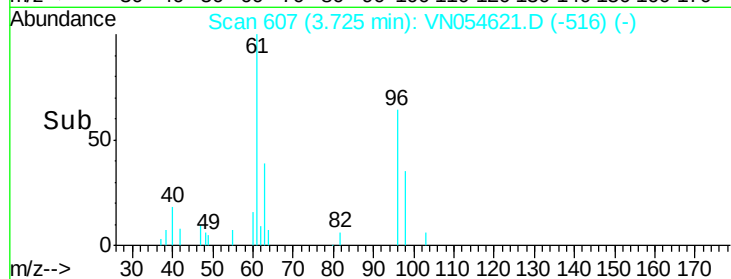
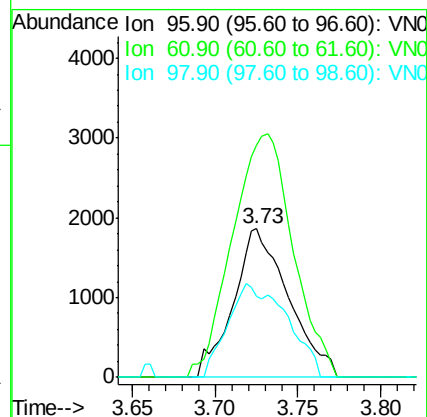
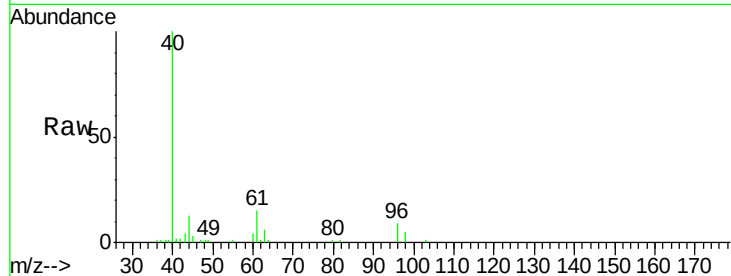
Tot Ion: 96 Resp: 4311

Ion Ratio Lower Upper

96 100

61 156.4 116.5 174.7

98 54.3 51.0 76.4



#13

Acrolein

Concen: 0.282 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN054621.D

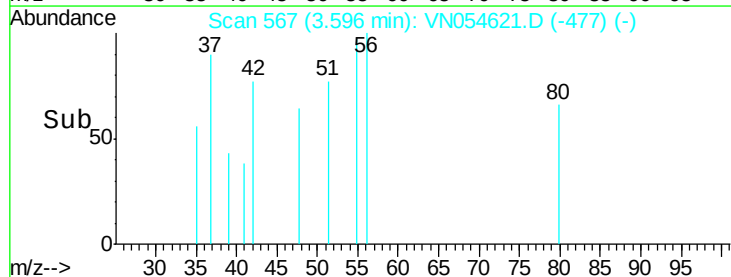
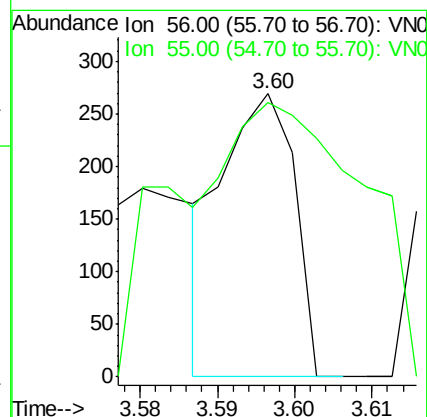
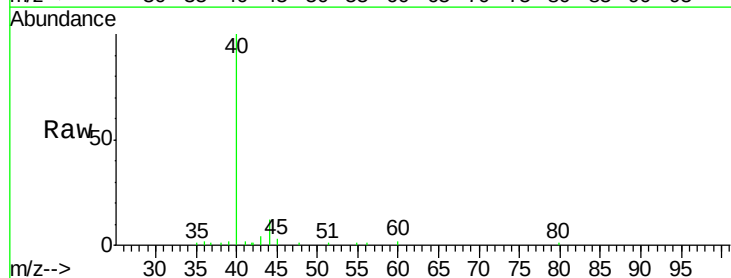
Acq: 23 Mar 2019 23:45

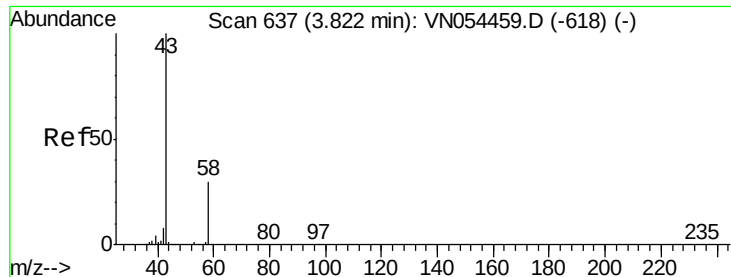
Tgt Ion: 56 Resp: 174

Ion Ratio Lower Upper

56 100

55 248.3 56.7 85.1#

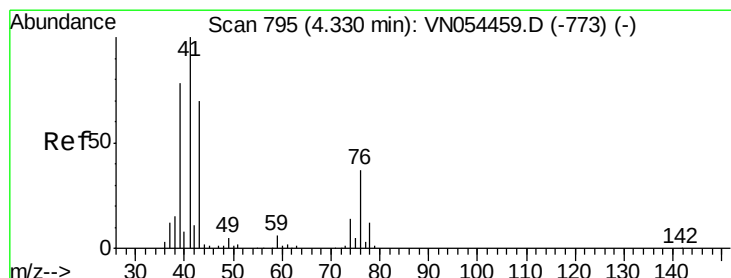
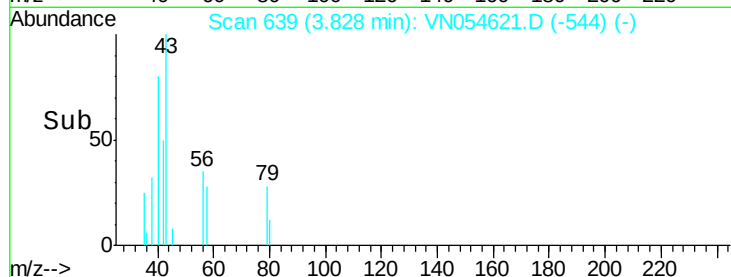
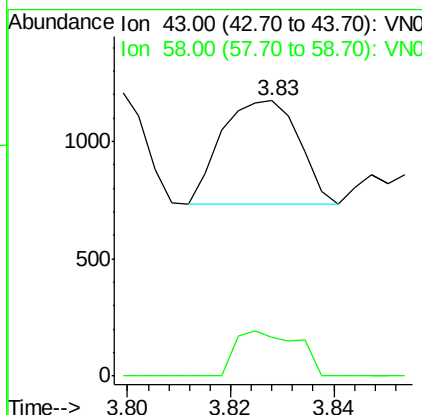
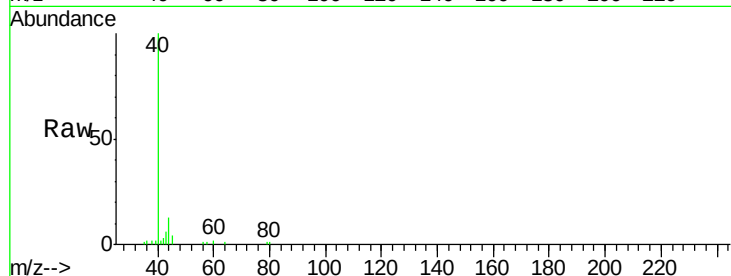




#16
Acetone
Concen: 0.207 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

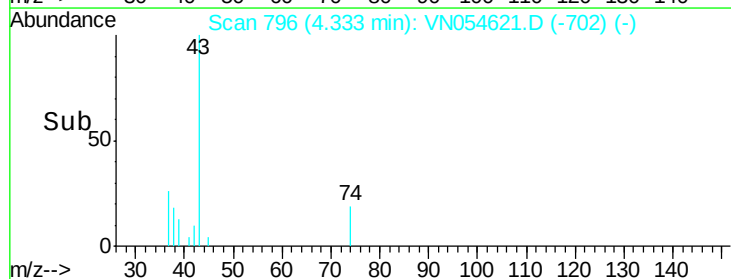
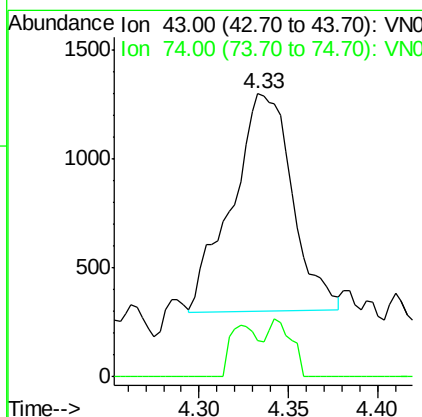
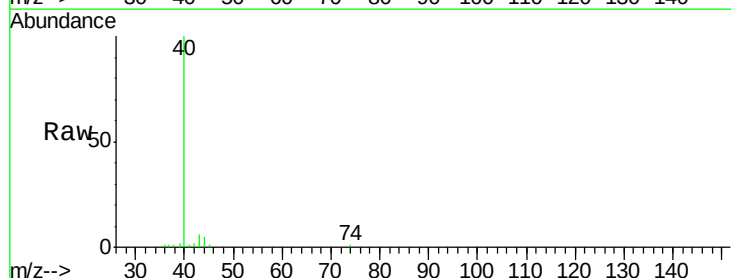
Instrument :
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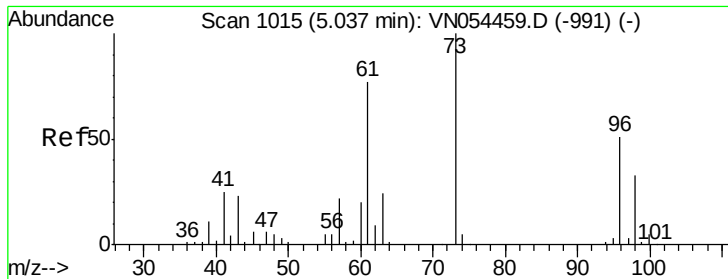
Tot Ion: 43 Resp: 460
Ion Ratio Lower Upper
43 100
58 37.6 29.9 44.9



#18
Methyl Acetate
Concen: 0.479 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Tgt Ion: 43 Resp: 2373
Ion Ratio Lower Upper
43 100
74 10.1 20.8 31.2#

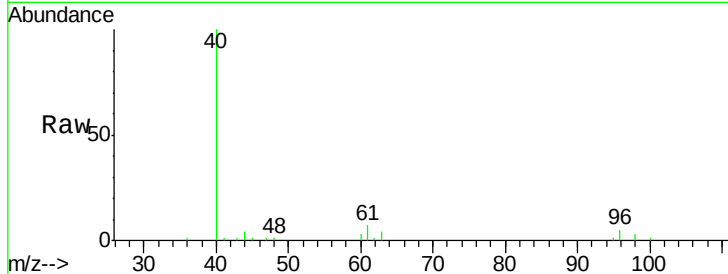




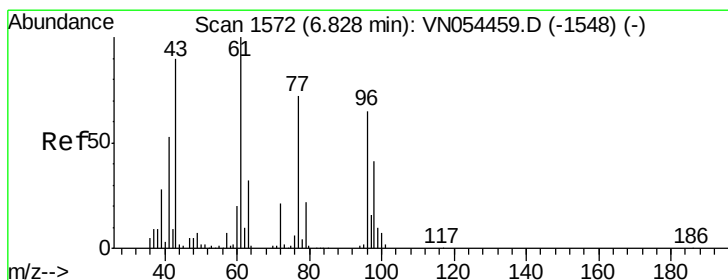
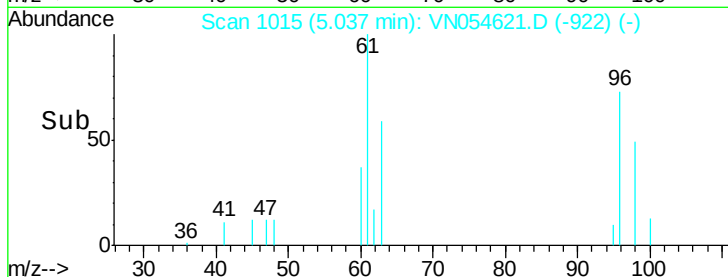
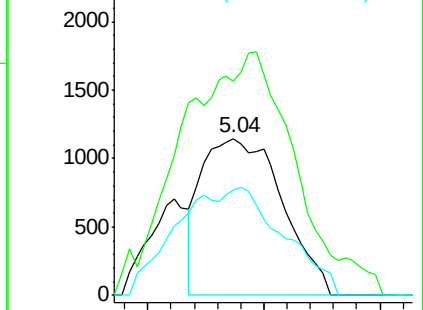
#21
trans-1,2-Dichloroethene
Concen: 0.473 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. -0.00 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Instrument :
MSVOA_N
ClientSampleId :
WP022SB435-190318-(20-22)DL

Tot Ion: 96 Resp: 2769
Ion Ratio Lower Upper
96 100
61 114.6 102.8 154.2
98 66.9 50.0 75.0

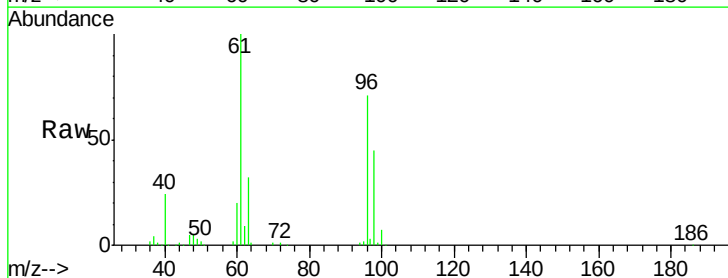


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

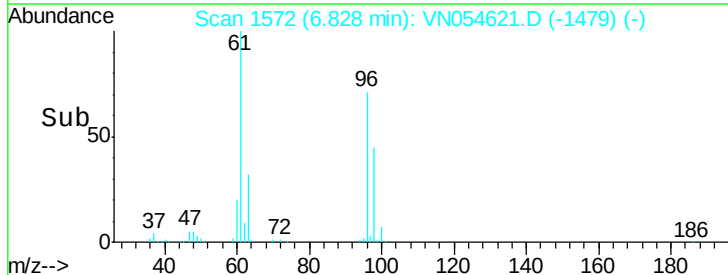
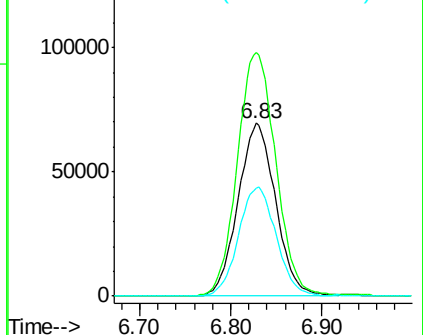


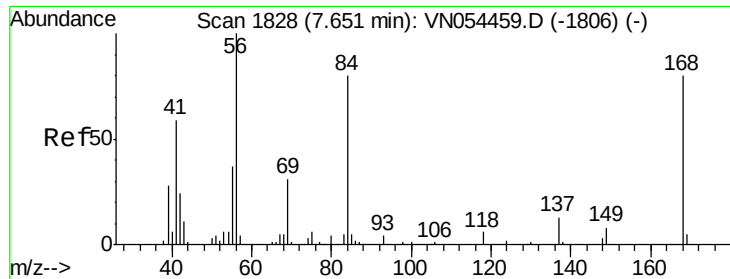
#27
cis-1,2-Dichloroethene
Concen: 28.703 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Tgt Ion: 96 Resp: 200235
Ion Ratio Lower Upper
96 100
61 144.3 0.0 273.0
98 63.2 0.0 130.6



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

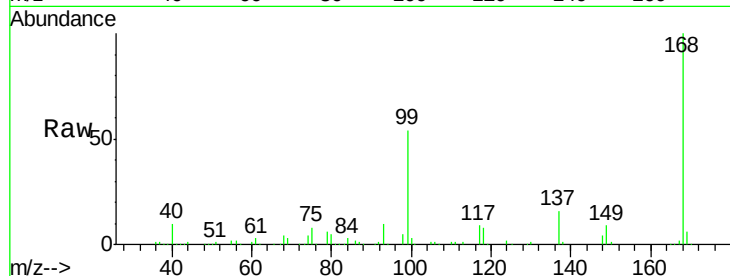




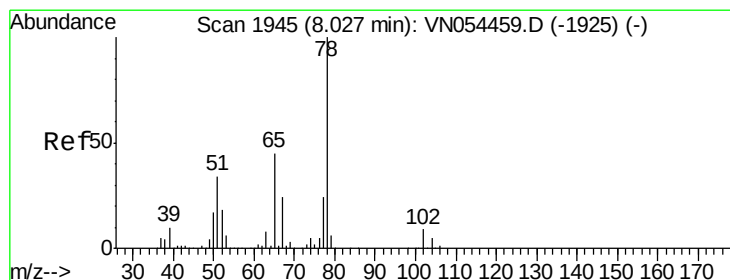
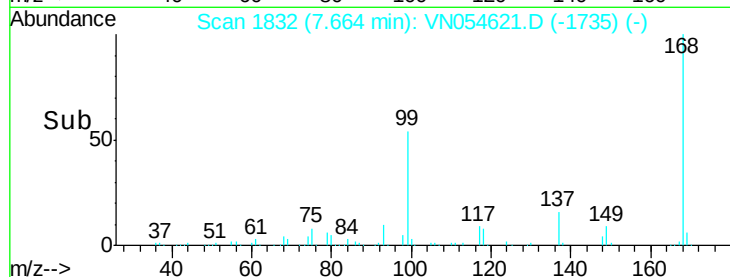
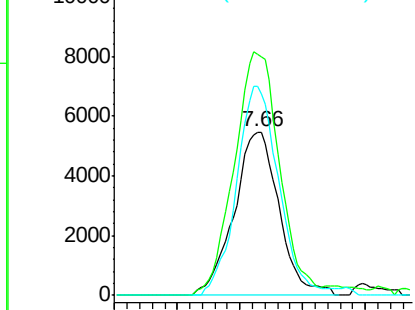
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Instrument :
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Tot Ion: 56 Resp: 13627
Ion Ratio Lower Upper
56 100
69 147.1 27.8 41.6#
84 127.4 74.6 111.8#

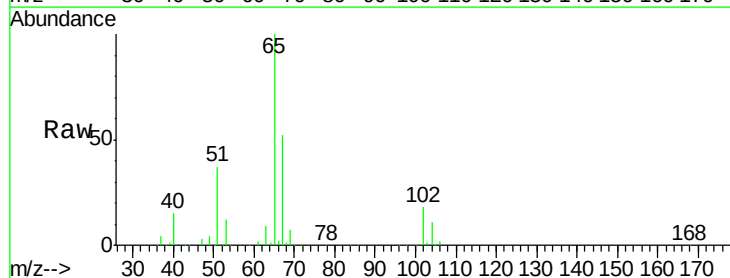


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

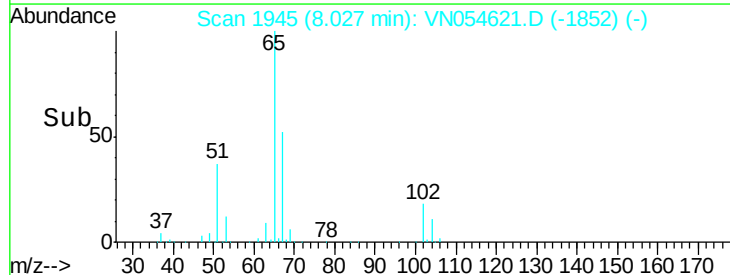
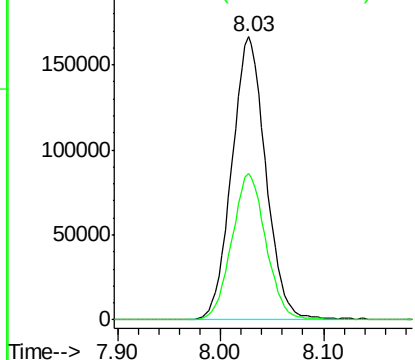


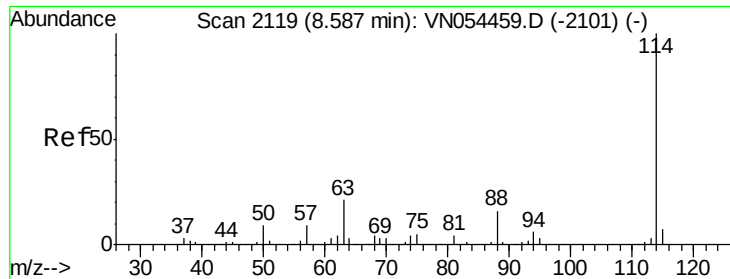
#33
1,2-Dichloroethane-d4
Concen: 51.628 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Tgt Ion: 65 Resp: 381345
Ion Ratio Lower Upper
65 100
67 52.1 0.0 104.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054621.D

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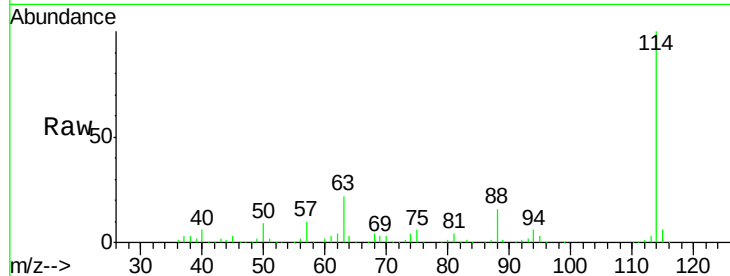
Tot Ion:114 Resp: 932218

Ion Ratio Lower Upper

114 100

63 21.7 0.0 35.2

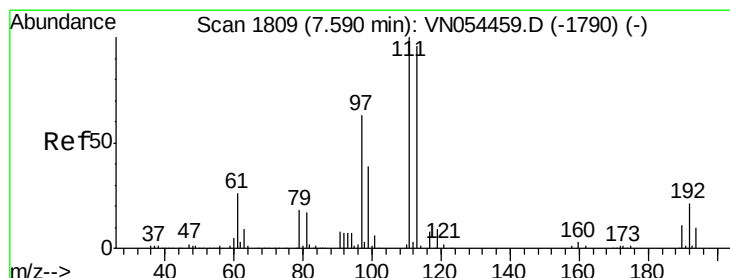
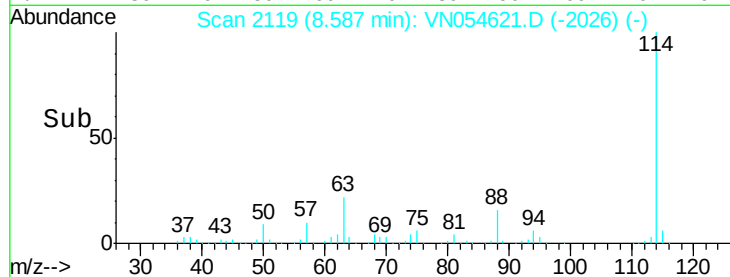
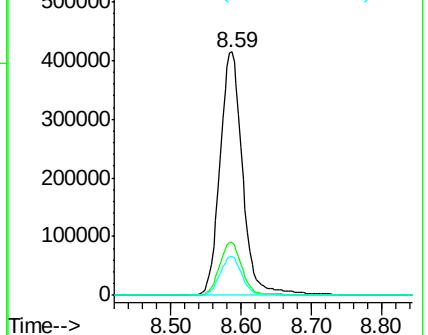
88 15.9 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.067 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054621.D

Acq: 23 Mar 2019 23:45

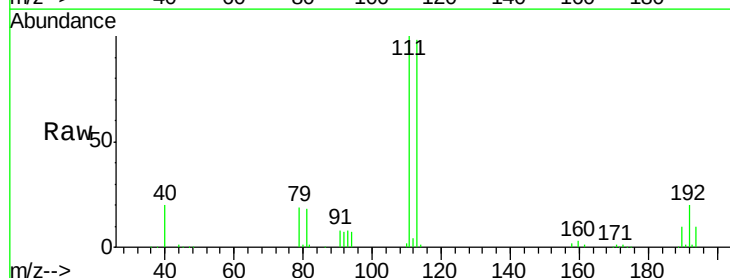
Tgt Ion:113 Resp: 294684

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.4

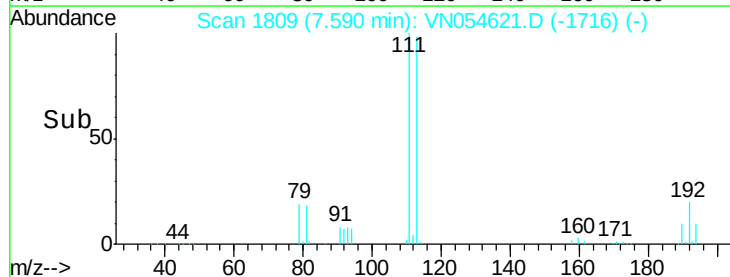
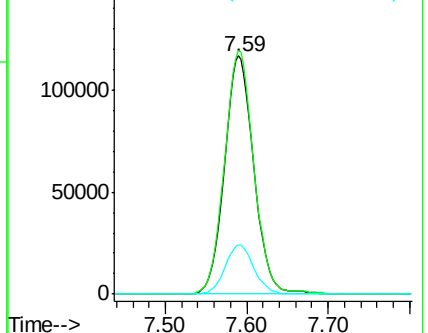
192 20.4 19.2 28.8

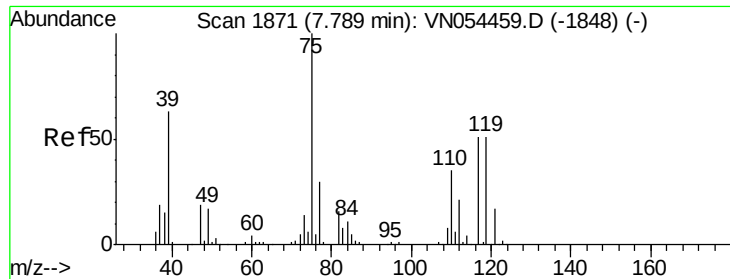


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.038 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN054621.D

Acq: 23 Mar 2019 23:45

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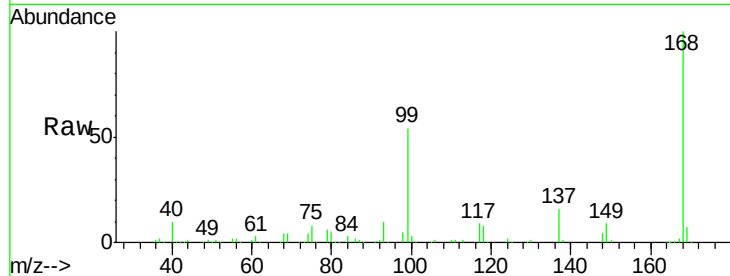
Tot Ion: 75 Resp: 43914

Ion Ratio Lower Upper

75 100

110 2.5 19.1 57.5#

77 0.0 25.0 37.4#

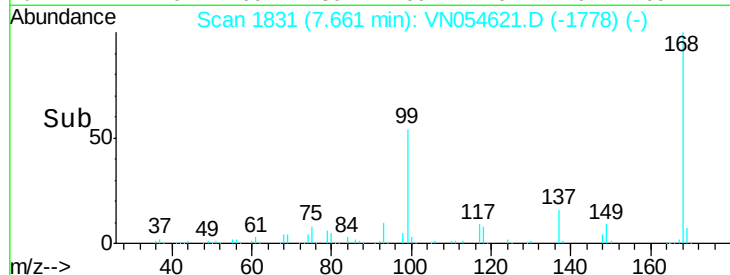


Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-1848) (-)

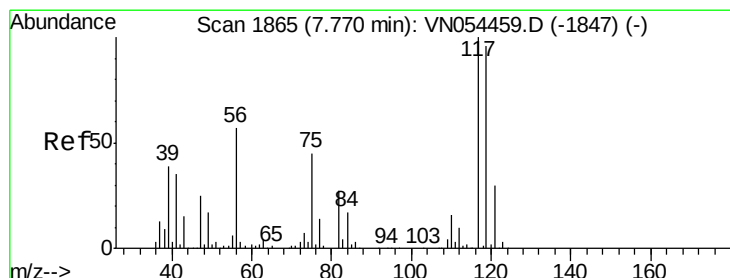
Ion 109.90 (109.60 to 110.60): VN054459.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN054459.D (-1848) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 6.632 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054621.D

Acq: 23 Mar 2019 23:45

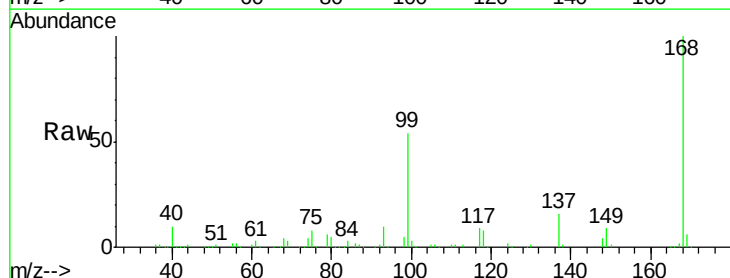
Tgt Ion: 117 Resp: 56171

Ion Ratio Lower Upper

117 100

119 4.2 76.3 114.5#

121 0.0 24.6 36.8#

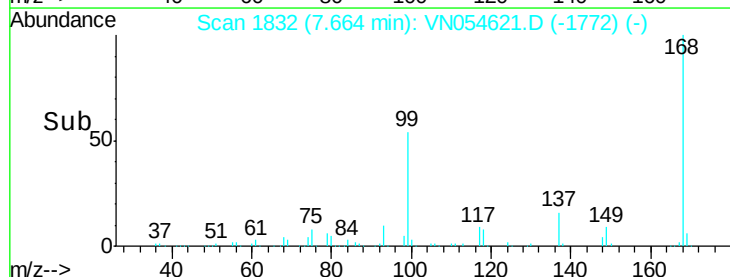


Abundance Ion 116.80 (116.50 to 117.50): VN054459.D (-1847) (-)

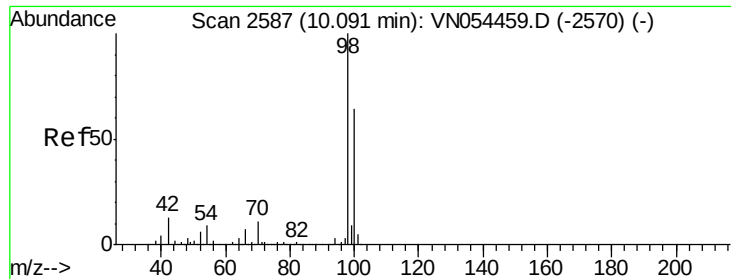
Ion 118.80 (118.50 to 119.50): VN054459.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN054459.D (-1847) (-)

Time-->



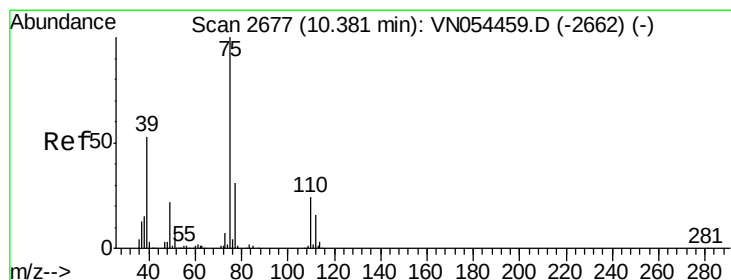
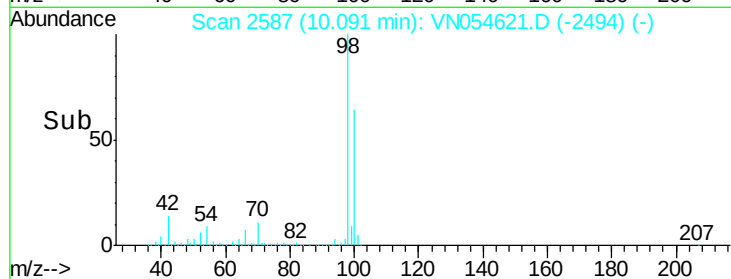
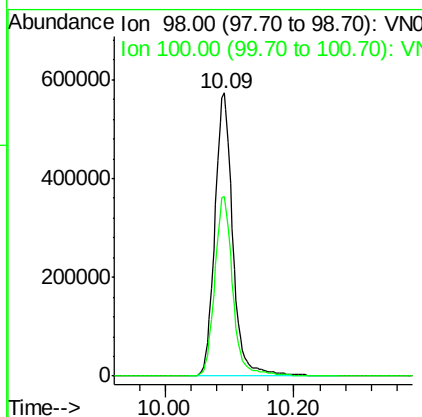
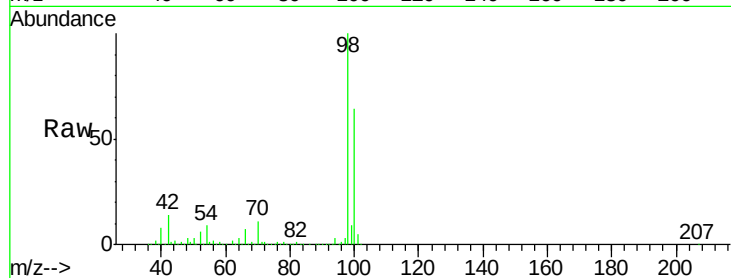
Time-->



#50
Toluene-d8
Concen: 49.282 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

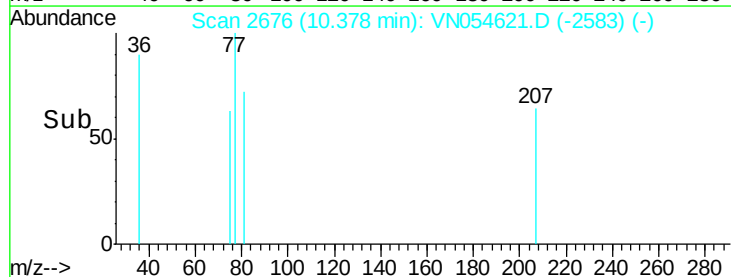
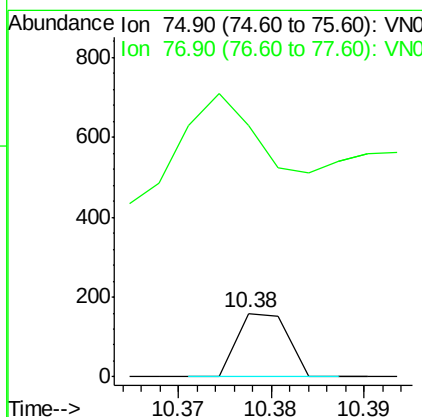
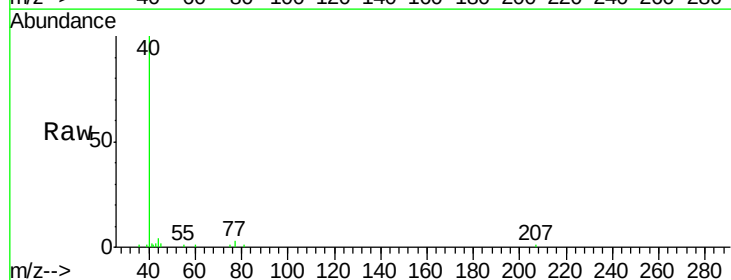
Instrument :
MSVOA_N
ClientSampleId :
WP022SB435-190318-(20-22)DL

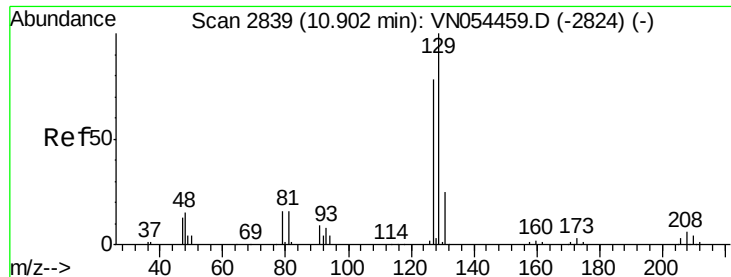
Tot Ion: 98 Resp: 1112704
Ion Ratio Lower Upper
98 100
100 63.4 51.2 76.8



#53
t-1,3-Dichloropropene
Concen: 2.239 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Tgt Ion: 75 Resp: 60
Ion Ratio Lower Upper
75 100
77 56.3 25.8 38.8#

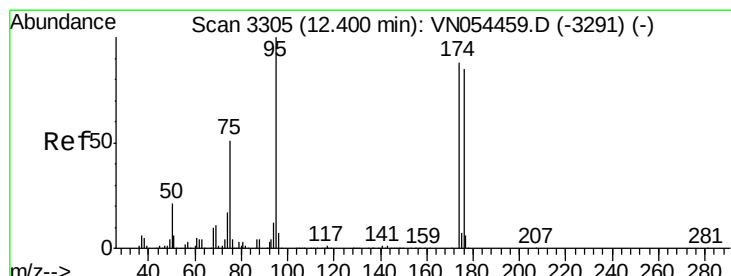
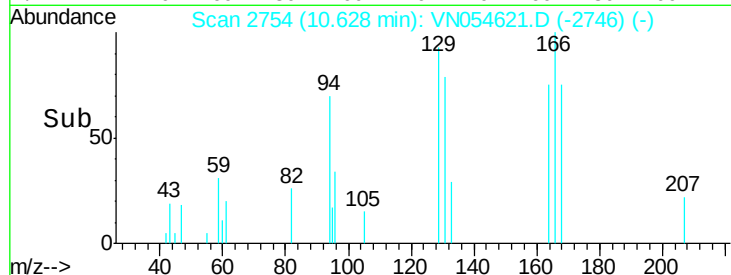
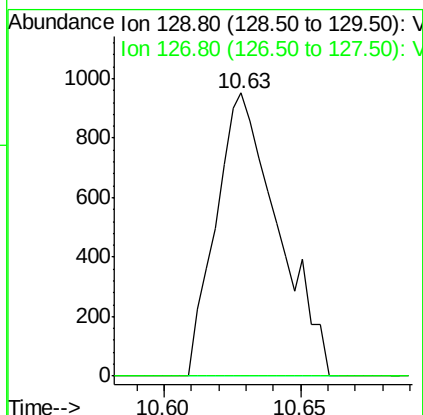
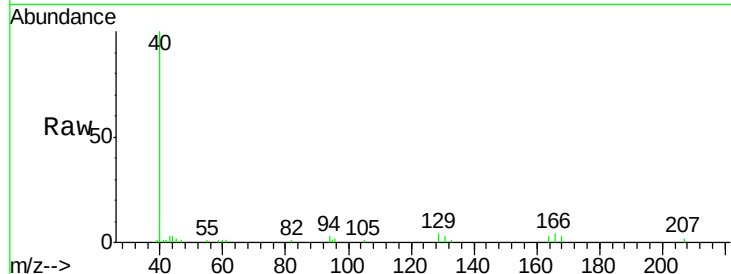




#60
 Dibromochloromethane
 Concen: 0.257 ug/l
 RT: 10.63 min Scan# 2754
 Delta R.T. -0.27 min
 Lab File: VN054621.D
 Acq: 23 Mar 2019 23:45

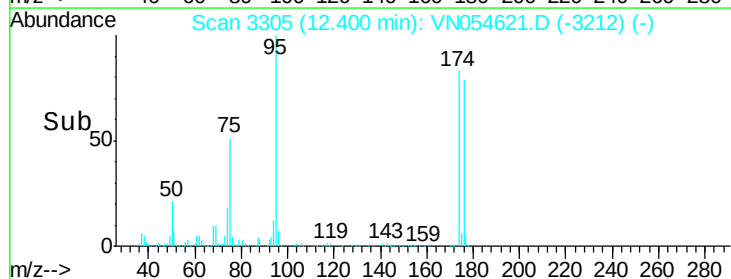
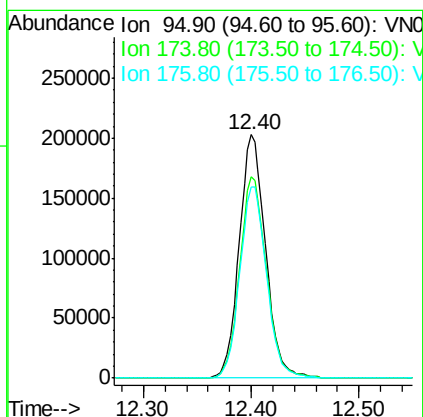
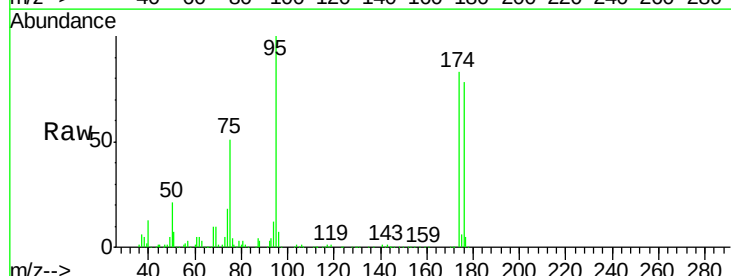
Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB435-190318-(20-22)DL

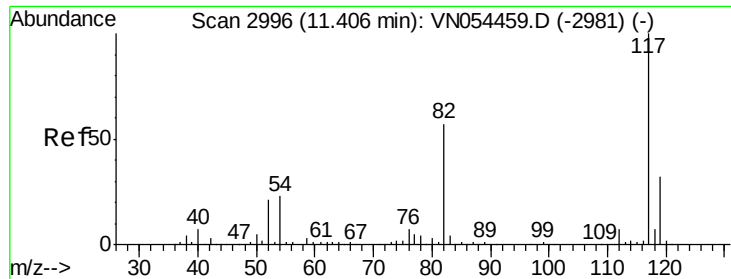
Tot Ion:129 Resp: 1506
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 115.8#



#62
 4-Bromofluorobenzene
 Concen: 44.946 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054621.D
 Acq: 23 Mar 2019 23:45

Tgt Ion: 95 Resp: 345322
 Ion Ratio Lower Upper
 95 100
 174 84.1 0.0 191.0
 176 80.1 0.0 187.4

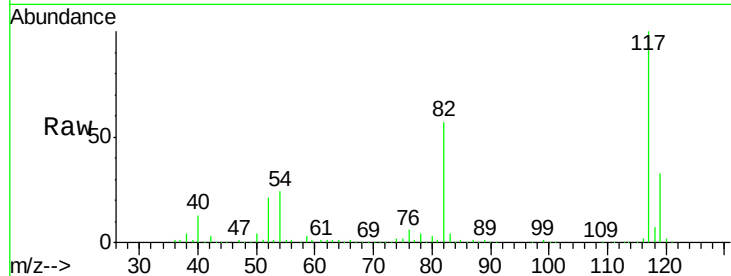




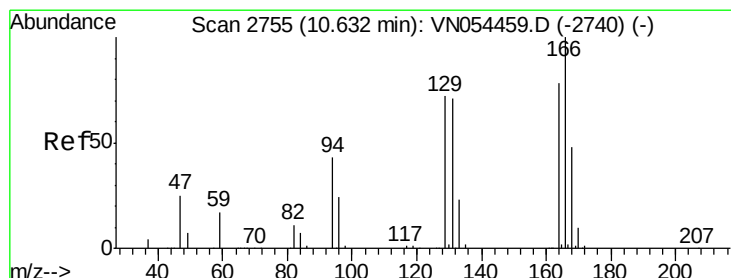
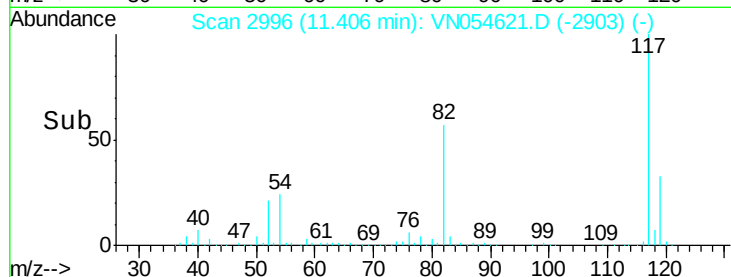
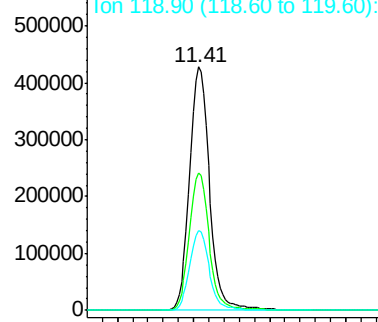
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Instrument :
MSVOA_N
ClientSampleId :
WP022SB435-190318-(20-22)DL

Tot Ion:117 Resp: 781044
Ion Ratio Lower Upper
117 100
82 56.7 40.0 60.0
119 32.7 25.8 38.6

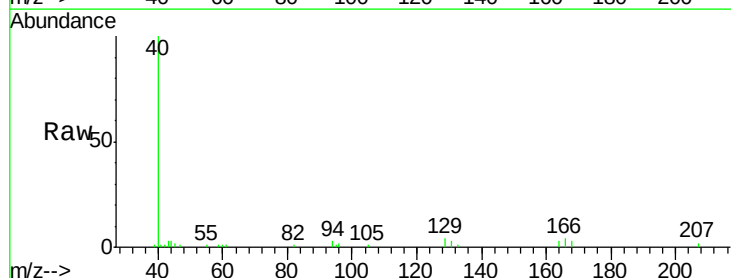


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

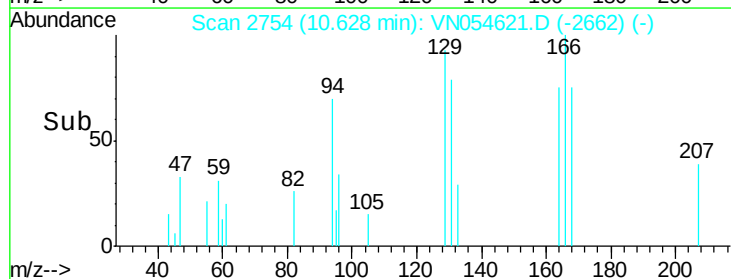
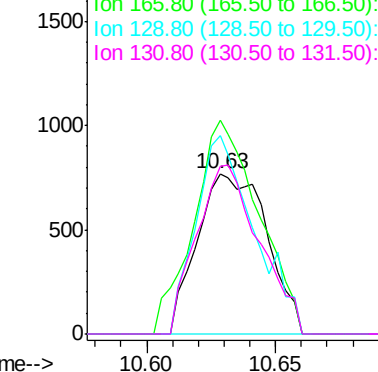


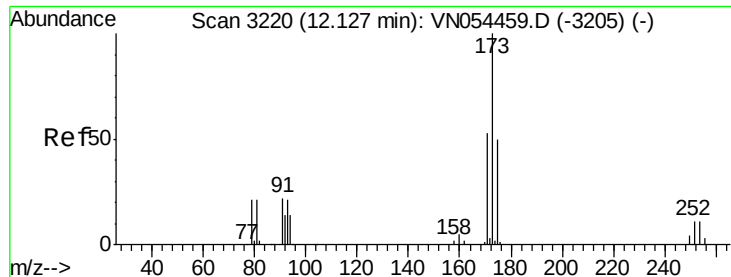
#64
Tetrachloroethene
Concen: 0.224 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Tgt Ion:164 Resp: 1449
Ion Ratio Lower Upper
164 100
166 133.5 103.9 155.9
129 124.0 71.1 106.7#
131 105.1 68.2 102.4#



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

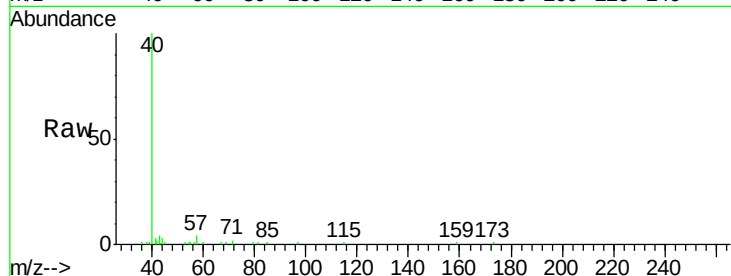




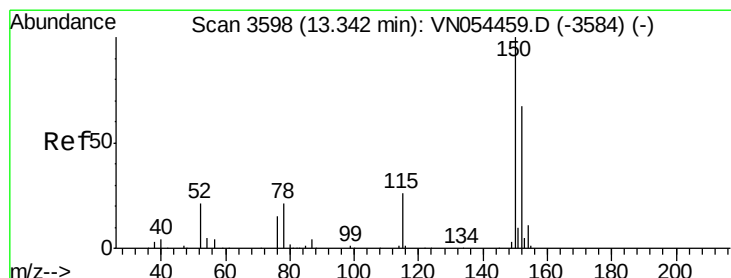
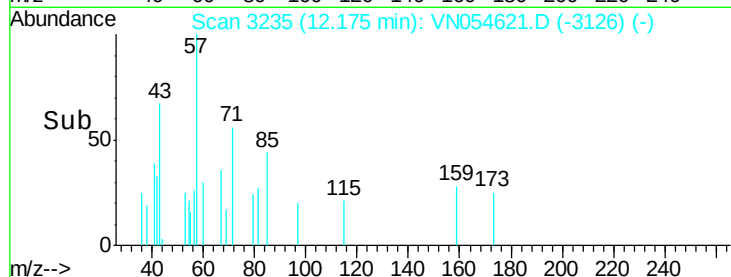
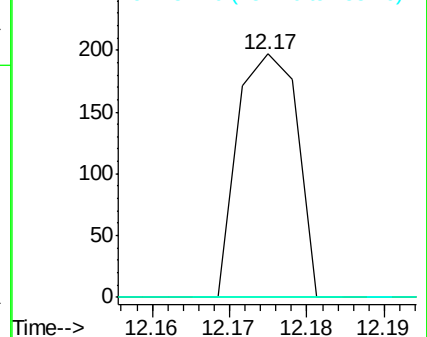
#71
Bromoform
Concen: 2.246 ug/l
RT: 12.17 min Scan# 3235
Delta R.T. 0.05 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Instrument :
MSVOA_N
ClientSampleId :
WP022SB435-190318-(20-22)DL

Tot Ion:173 Resp: 105
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#

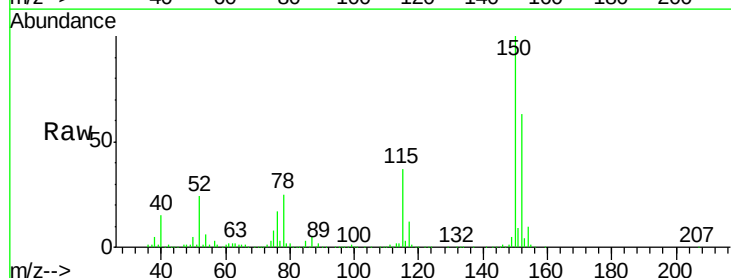


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

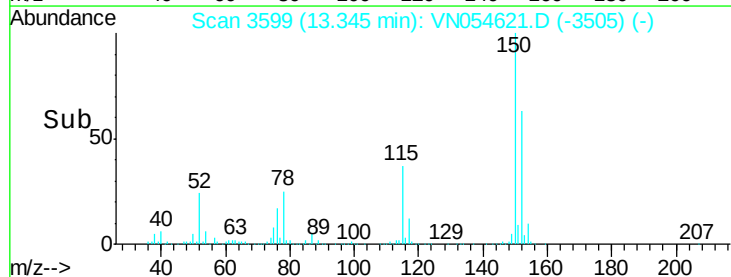
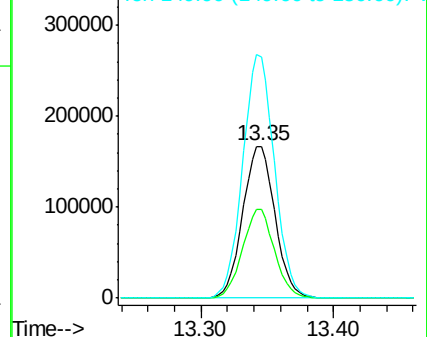


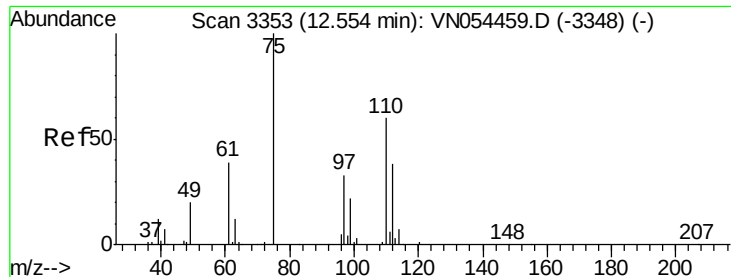
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054621.D
Acq: 23 Mar 2019 23:45

Tgt Ion:152 Resp: 281777
Ion Ratio Lower Upper
152 100
115 58.1 27.2 81.6
150 157.3 0.0 349.2



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

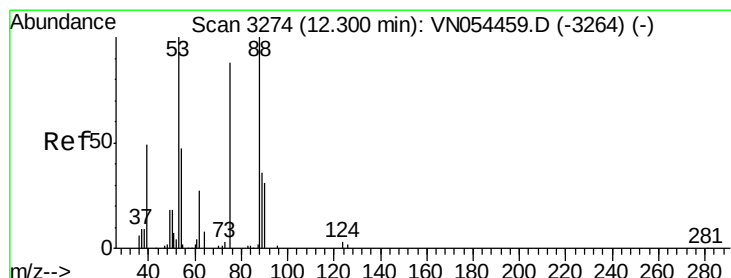
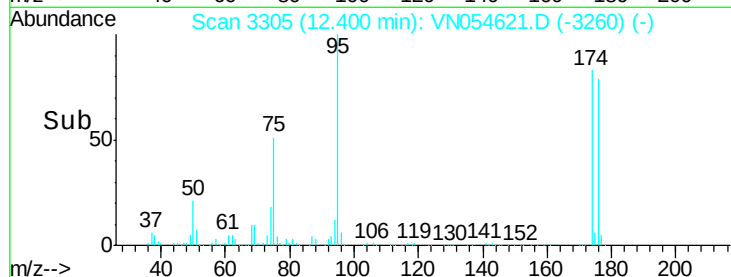
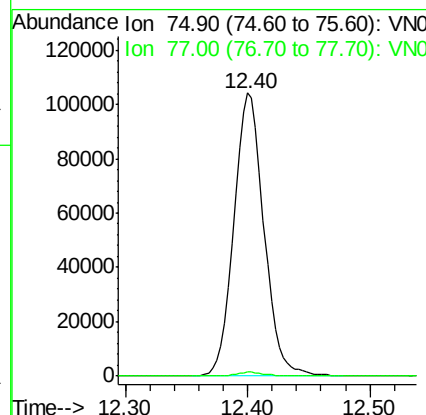
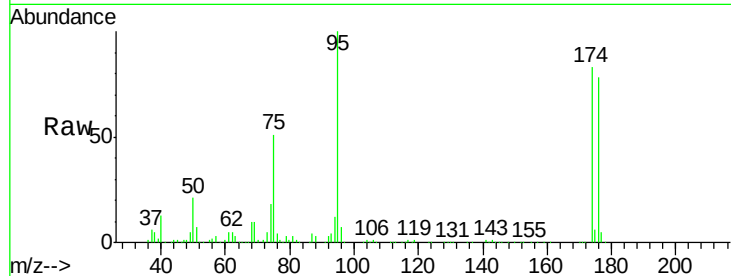




#76
 1,2,3-Trichloropropane
 Concen: 39.884 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN054621.D
 Acq: 23 Mar 2019 23:45

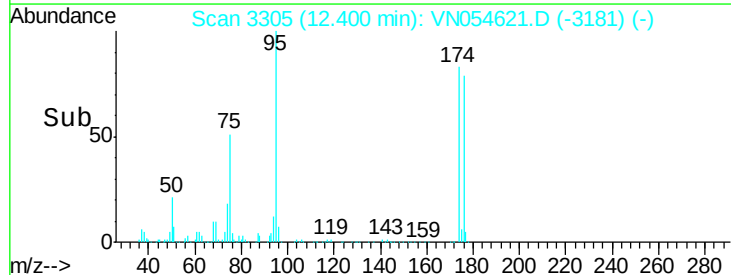
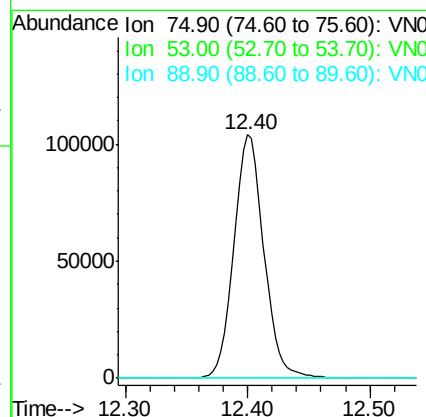
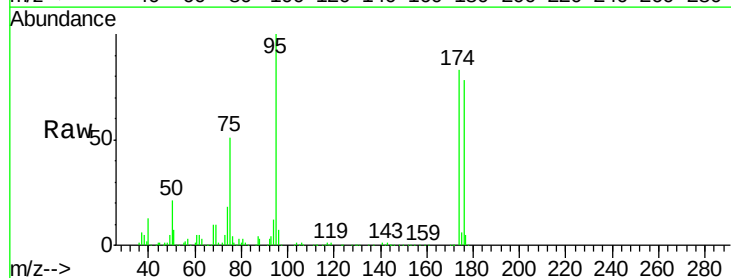
Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB435-190318-(20-22)DL

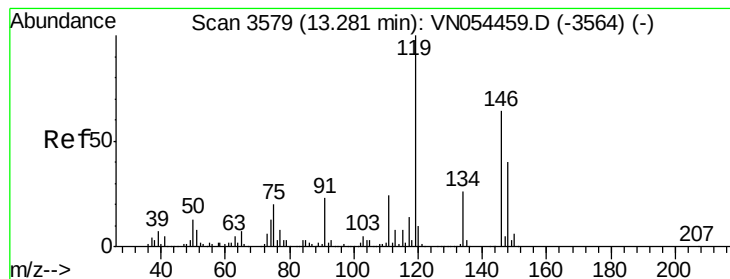
Tot Ion: 75 Resp: 178337
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 131.945 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054621.D
 Acq: 23 Mar 2019 23:45

Tgt Ion: 75 Resp: 178337
 Ion Ratio Lower Upper
 75 100
 53 0.2 76.2 114.2#
 89 0.0 39.2 58.8#





#87

1,3-Dichlorobenzene

Concen: 0.509 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN054621.D

Acq: 23 Mar 2019 23:45

Instrument :

MSVOA_N

ClientSampleId :

WP022SB435-190318-(20-22)DL

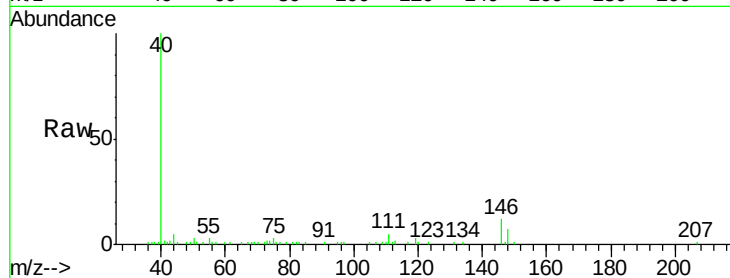
Tot Ion:146 Resp: 4746

Ion Ratio Lower Upper

146 100

111 52.1 18.8 56.3

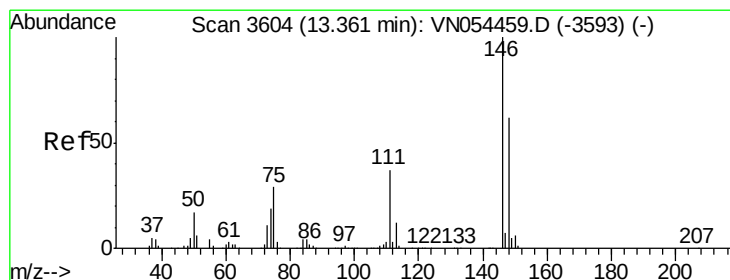
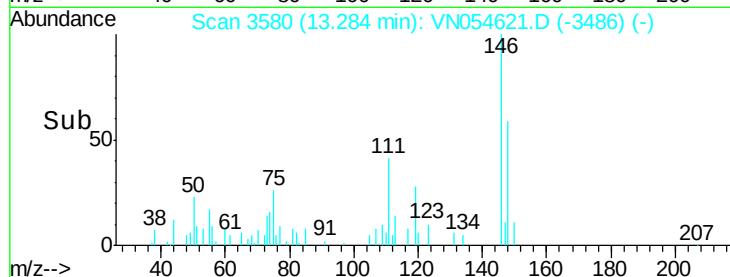
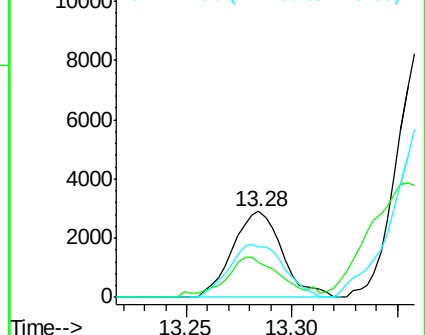
148 67.8 32.2 96.6



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



#88

1,4-Dichlorobenzene

Concen: 0.523 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN054621.D

Acq: 23 Mar 2019 23:45

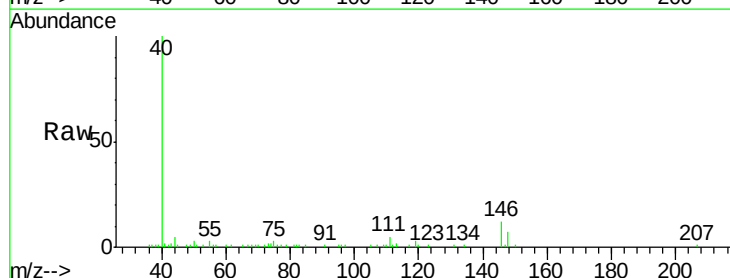
Tgt Ion:146 Resp: 4746

Ion Ratio Lower Upper

146 100

111 52.1 18.1 54.1

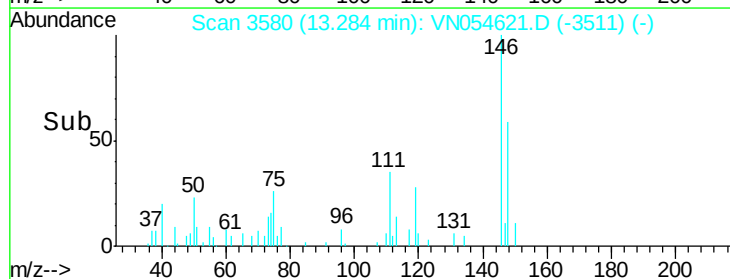
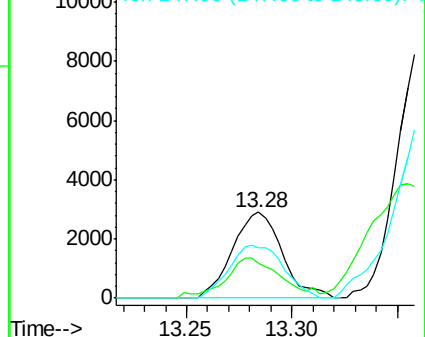
148 67.8 32.0 96.0

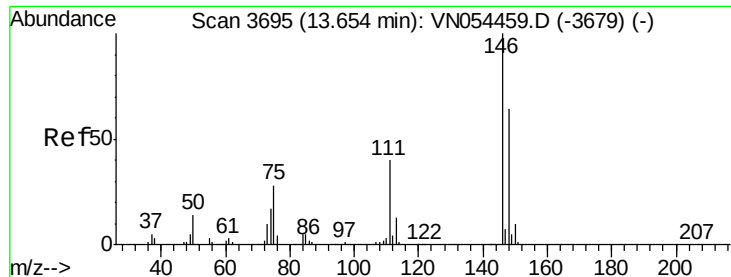


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

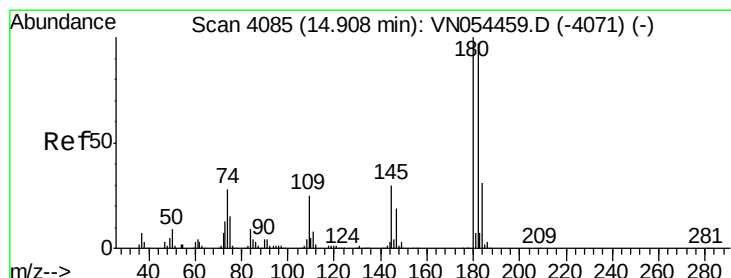
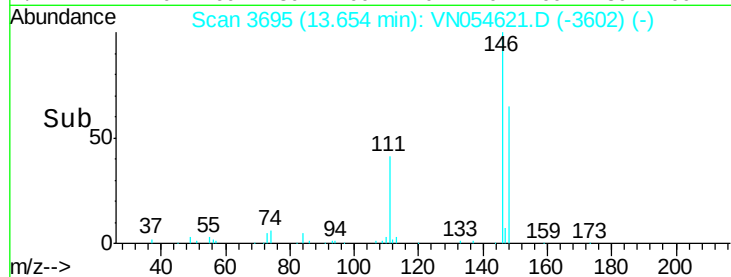
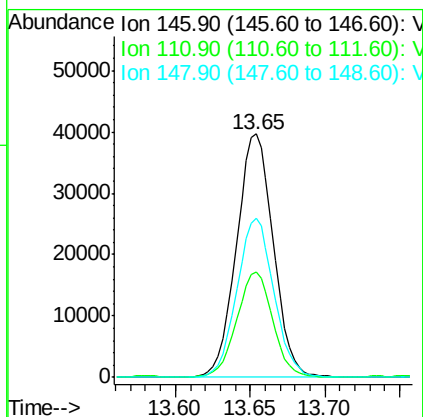
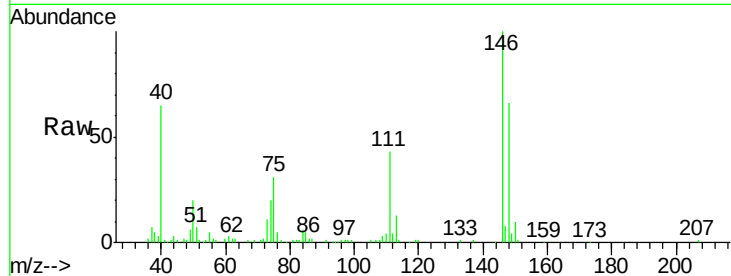




#91
 1,2-Dichlorobenzene
 Concen: 7.525 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054621.D
 Acq: 23 Mar 2019 23:45

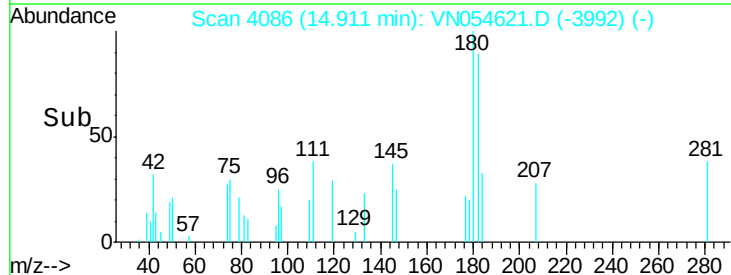
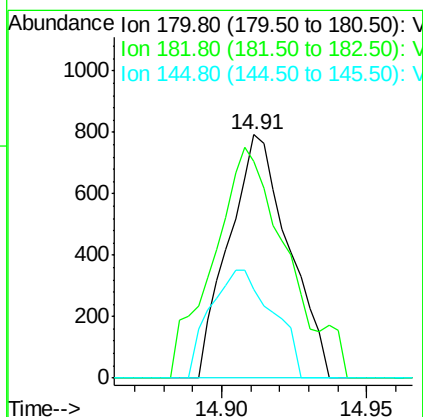
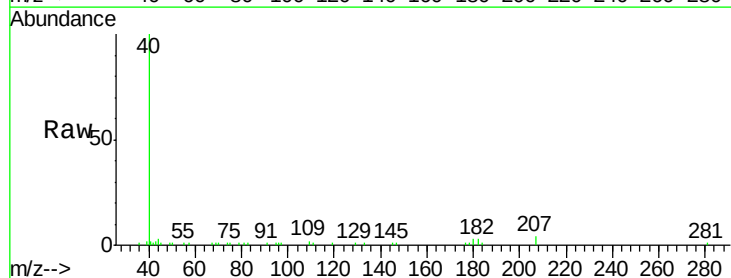
Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB435-190318-(20-22)DL

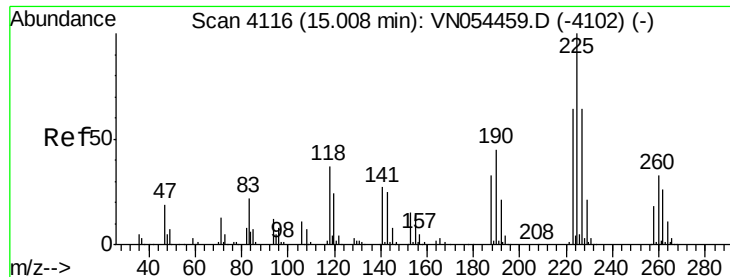
Tot Ion:146 Resp: 68016
 Ion Ratio Lower Upper
 146 100
 111 42.3 19.1 57.3
 148 65.4 32.4 97.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.251 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054621.D
 Acq: 23 Mar 2019 23:45

Tgt Ion:180 Resp: 1132
 Ion Ratio Lower Upper
 180 100
 182 117.2 48.0 144.2
 145 46.7 14.2 42.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4118

Delta R.T. 0.01 min

Lab File: VN054621.D

Acq: 23 Mar 2019 23:45

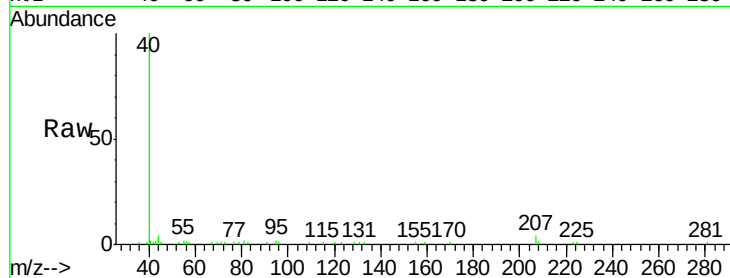
Instrument :

MSVOA_N

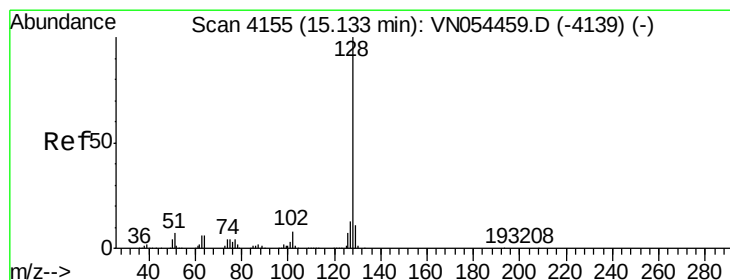
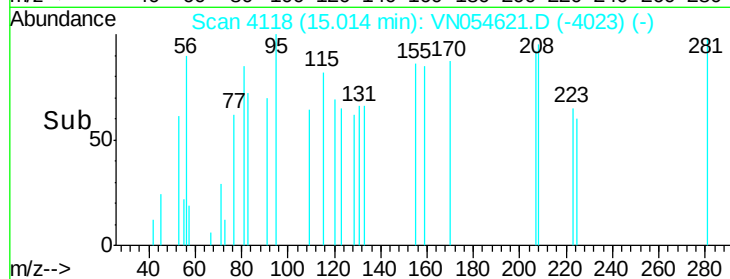
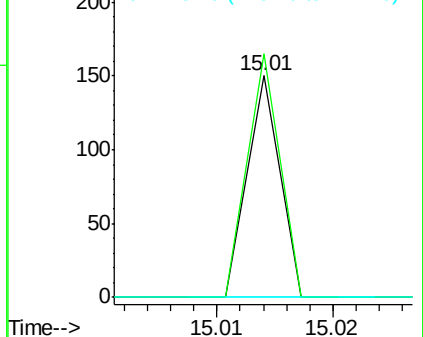
ClientSampleId :

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Tot Ion:	225	Resp:	29
Ion	Ratio	Lower	Upper
225	100		
223	110.3	31.1	93.5#
227	0.0	31.9	95.9#



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



#95

Naphthalene

Concen: 0.769 ug/l

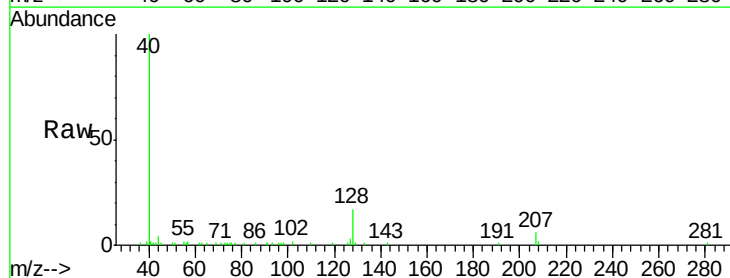
RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054621.D

Acq: 23 Mar 2019 23:45

Tgt Ion:	128	Resp:	7726
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.1	15.1
129	4.8	8.7	13.1#



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

