

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101119\
 Data File : VN058672.D
 Acq On : 10 Oct 2019 18:12
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 11 04:31:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	75875	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	434503	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	378980	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	199629	31.00	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.33%
60) 4-Bromofluorobenzene	12.41	95	181195	27.33	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.10%
63) Toluene-d8	10.08	98	536743	30.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	925	0.225 ug/l #	43
3) Chloromethane	2.04	50	2089	0.380 ug/l	100
4) Vinyl Chloride	2.17	62	1332	0.235 ug/l #	87
12) Methyl Acetate	4.31	43	2595	0.409 ug/l #	53
13) Acrolein	3.59	56	854	1.217 ug/l #	30
14) Acrylonitrile	4.97	53	1986	0.794 ug/l	83
15) Acetone	3.80	58	797	1.073 ug/l #	31
16) Carbon Disulfide	4.03	76	16031	1.384 ug/l	96
18) Methylene Chloride	4.53	84	1359	0.283 ug/l #	81
19) trans-1,2-Dichloroethene	5.01	96	2203	0.510 ug/l #	64
22) cis-1,2-Dichloroethene	6.81	96	1166	0.226 ug/l #	53
23) tert-Butyl Alcohol	4.73	59	217	0.212 ug/l #	100
29) 1,1-Dichloropropene	7.78	75	2030	0.297 ug/l	72
30) 2-Butanone	6.81	43	782	0.202 ug/l #	57
37) Trichloroethene	8.82	130	1247	0.252 ug/l #	63
40) Dibromomethane	9.20	93	905	0.261 ug/l	88
45) 1,4-Dioxane	9.19	88	328	3.476 ug/l #	61
47) n-amyl Acetate	12.08	43	2360	0.217 ug/l #	75
48) t-1,3-Dichloropropene	10.38	75	2122	0.258 ug/l #	1
51) Ethyl methacrylate	10.09	69	1791	0.226 ug/l	80
54) 1,2-Dibromoethane	11.01	107	1136	0.221 ug/l	82
55) 2-Chloroethyl vinyl ether	9.69	63	1659	0.421 ug/l #	79
56) Bromoform	12.13	173	907	0.245 ug/l #	63
58) 4-Methyl-2-Pentanone	9.98	43	3474	0.502 ug/l #	85
59) 2-Hexanone	10.75	43	4604	0.849 ug/l	97
61) Tetrachloroethene	10.63	164	1375	0.336 ug/l	89
64) Chlorobenzene	11.43	112	3760	0.302 ug/l	95
67) m/p-Xylenes	11.62	106	3447	0.409 ug/l	96
69) Styrene	11.97	104	3591	0.266 ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.51	83	1957	0.263 ug/l	99
73) Bromobenzene	12.53	156	1582	0.295 ug/l	76
74) n-propylbenzene	12.60	91	6695	0.259 ug/l	96
75) 2-Chlorotoluene	12.68	91	3855	0.248 ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	610	0.238 ug/l #	66
78) 4-Chlorotoluene	12.78	91	6321	0.395 ug/l	78
80) 1,2,4-Trimethylbenzene	13.04	105	4135	0.220 ug/l	97
81) sec-Butylbenzene	13.18	105	4730	0.218 ug/l	92

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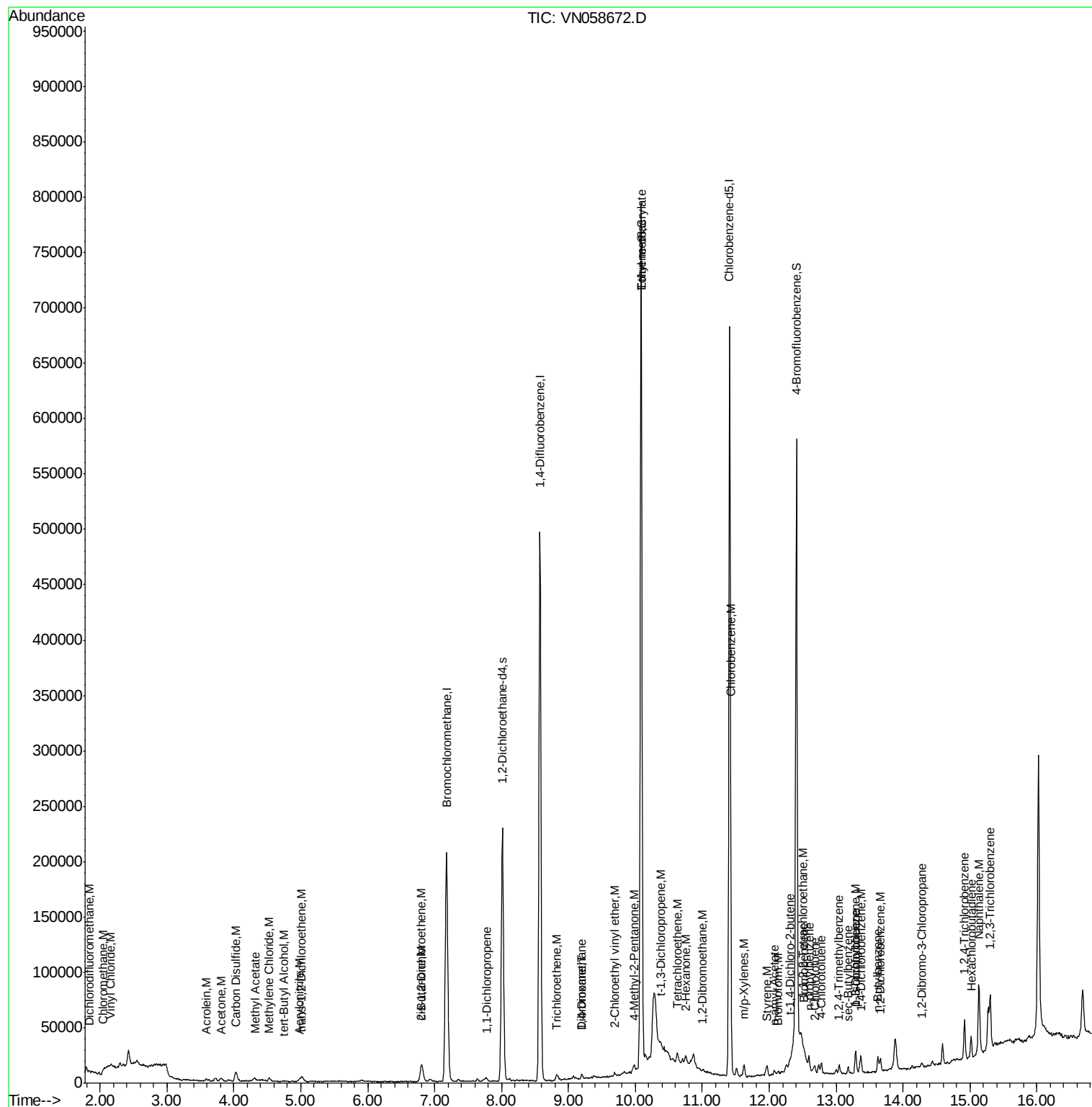
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) p-Isopropyltoluene	13.29	119	4976	0.255	uq/l	96
83) 1,3-Dichlorobenzene	13.29	146	5534	0.570	uq/l	95
84) 1,4-Dichlorobenzene	13.37	146	6831	0.705	uq/l	99
85) n-Butylbenzene	13.62	91	6535	0.366	uq/l	95
87) 1,2-Dichlorobenzene	13.66	146	4913	0.513	uq/l	96
88) 1,2-Dibromo-3-Chloropropan	14.28	75	1683	1.018	uq/l #	81
89) 1,2,4-Trichlorobenzene	14.92	180	10833	1.791	uq/l	96
90) Hexachlorobutadiene	15.02	225	3605	1.154	uq/l	97
91) Naphthalene	15.13	128	45198	2.531	uq/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	13417	2.279	uq/l	96

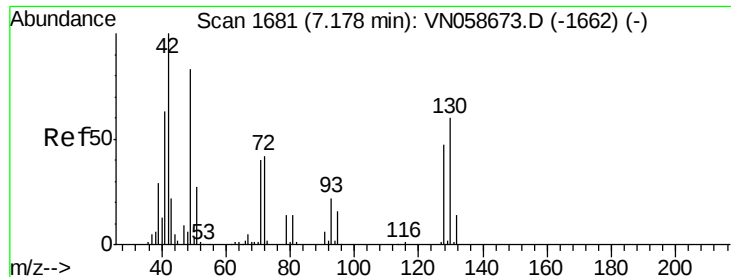
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 11 04:26:47 2019
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

ClientSampled :

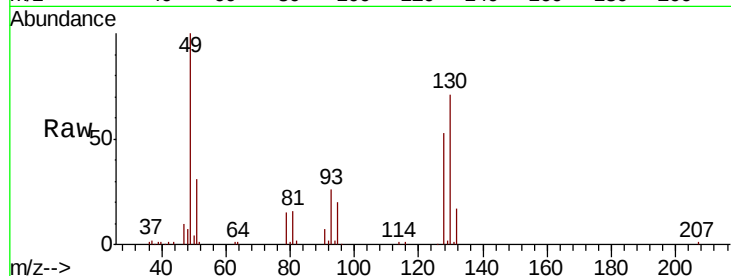
Tot Ion:128 Resp: 75875

Ion Ratio Lower Upper

128 100

49 184.1 0.0 453.5

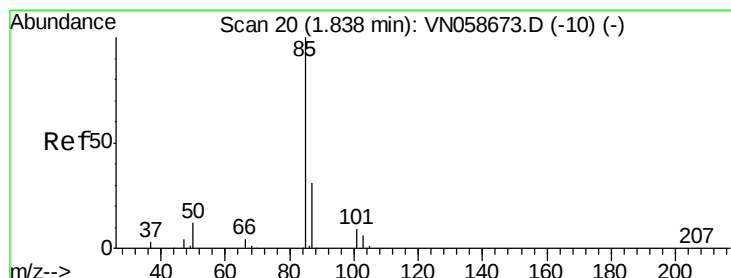
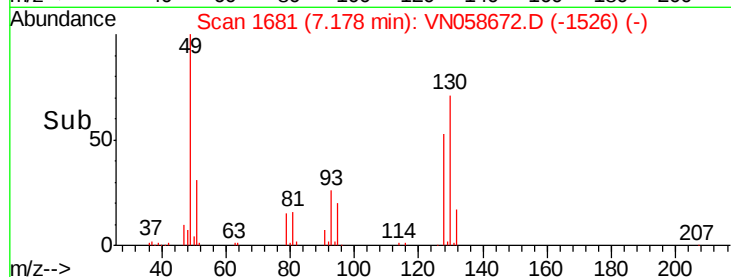
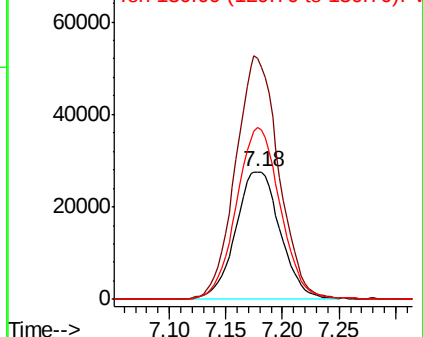
130 132.2 0.0 314.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.225 ug/l

RT: 1.84 min Scan# 20

Delta R.T. -0.00 min

Lab File: VN058672.D

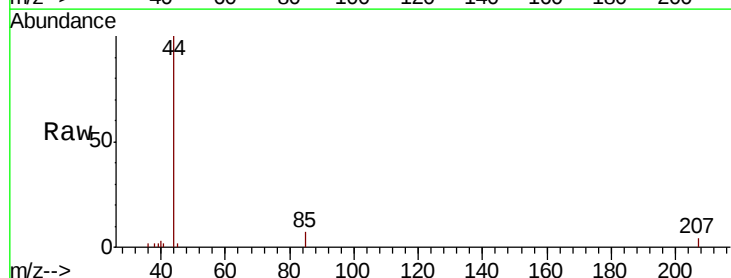
Acq: 10 Oct 2019 18:12

Tgt Ion: 85 Resp: 925

Ion Ratio Lower Upper

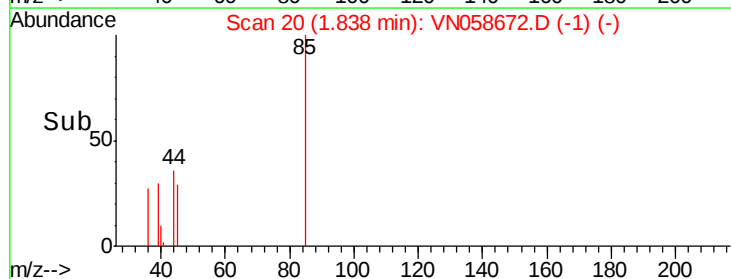
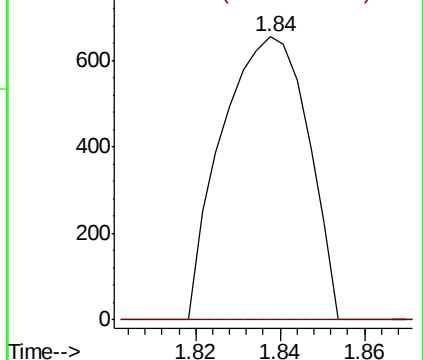
85 100

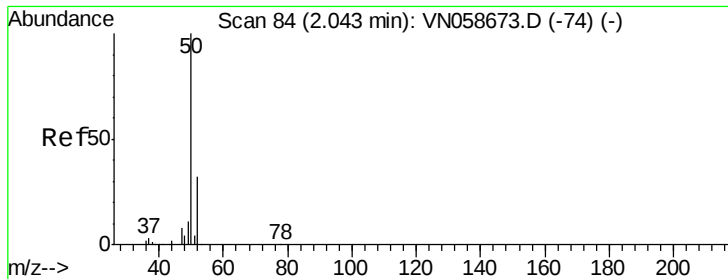
87 0.0 15.7 47.0#



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 0.380 ug/l

RT: 2.04 min Scan# 84

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

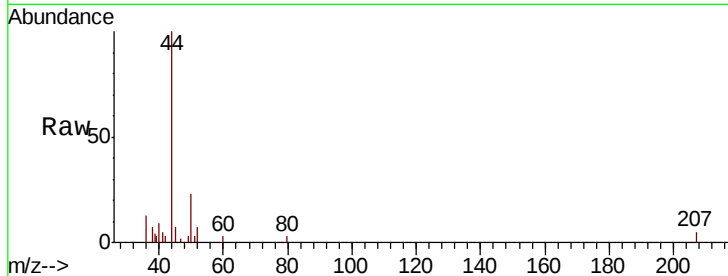
ClientSampled :

Tot Ion: 50 Resp: 2089

Ion Ratio Lower Upper

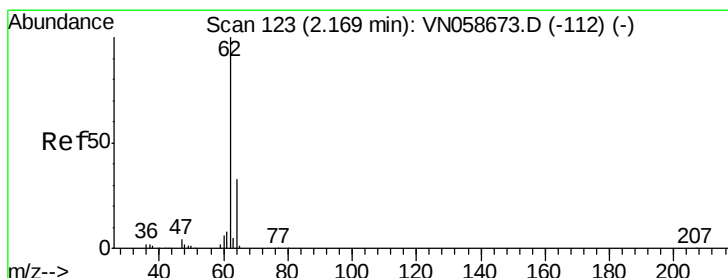
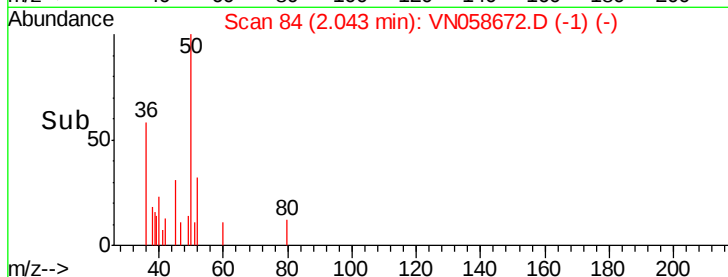
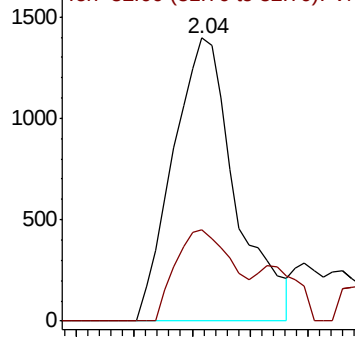
50 100

52 32.2 25.8 38.8



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 0.235 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN058672.D

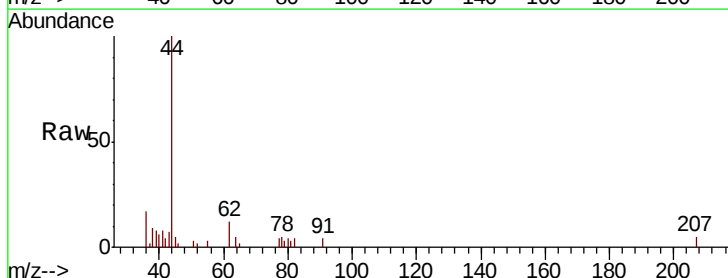
Acq: 10 Oct 2019 18:12

Tgt Ion: 62 Resp: 1332

Ion Ratio Lower Upper

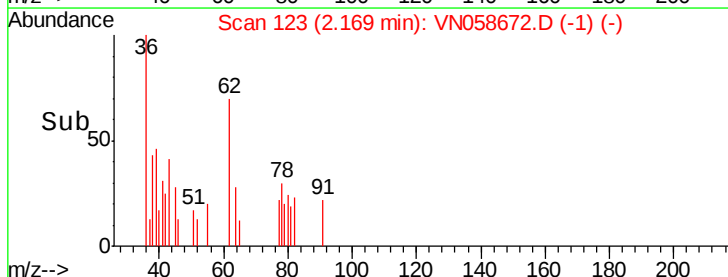
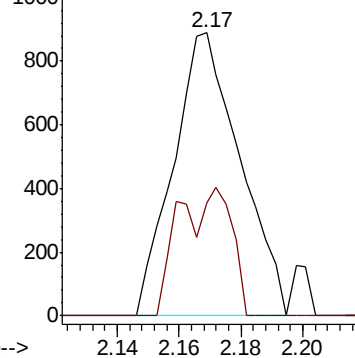
62 100

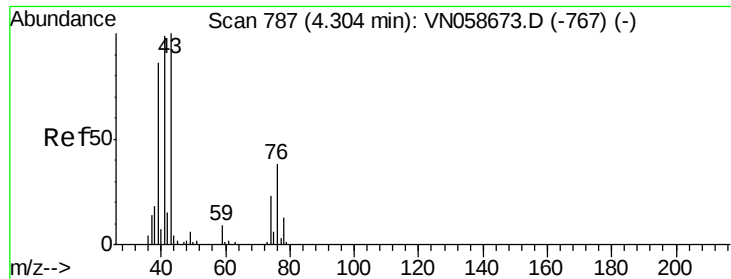
64 39.8 26.1 39.1#



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#12

Methvl Acetate

Concen: 0.409 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

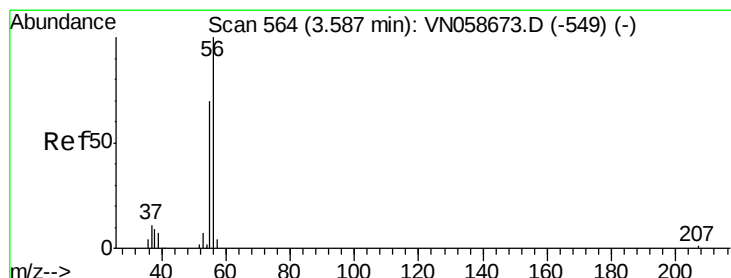
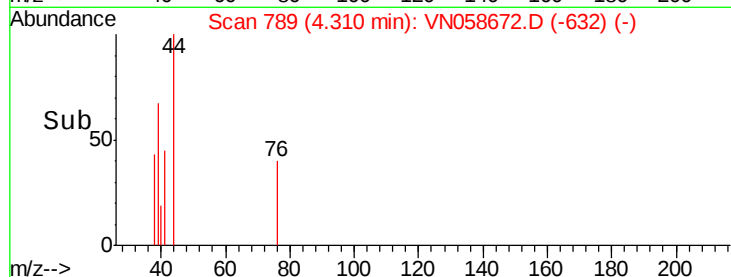
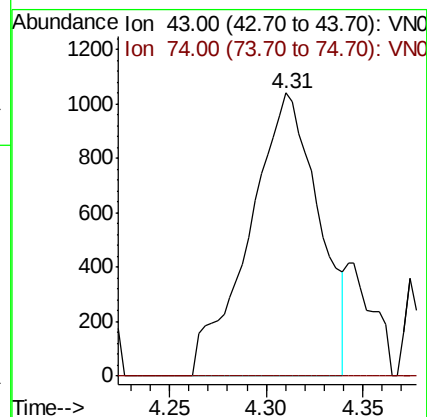
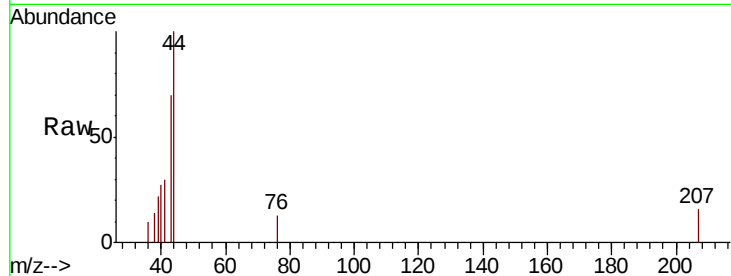
ClientSampled :

Tot Ion: 43 Resp: 2595

Ion Ratio Lower Upper

43 100

74 0.0 18.1 27.1#



#13

Acrolein

Concen: 1.217 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.00 min

Lab File: VN058672.D

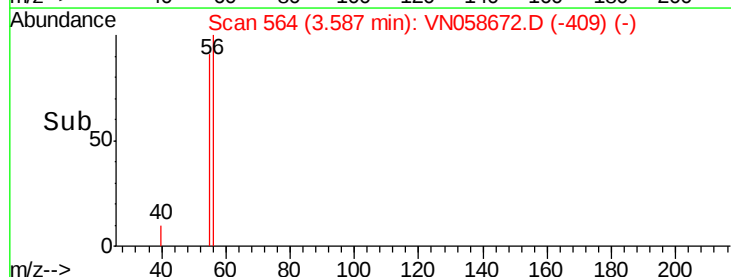
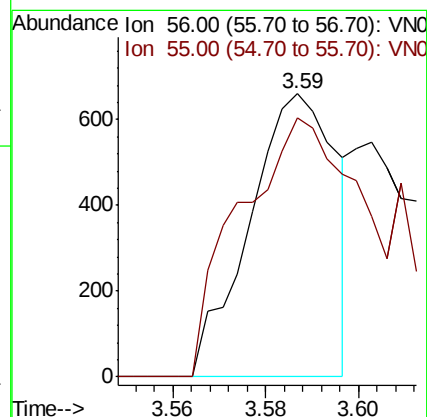
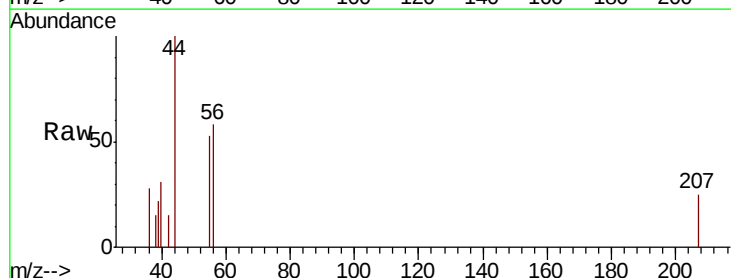
Acq: 10 Oct 2019 18:12

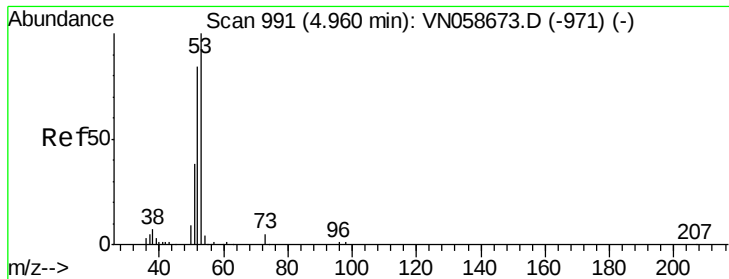
Tgt Ion: 56 Resp: 854

Ion Ratio Lower Upper

56 100

55 127.5 55.9 83.9#





#14

Acrylonitrile

Concen: 0.794 ug/l

RT: 4.97 min Scan# 993

Delta R.T. 0.01 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

ClientSampled :

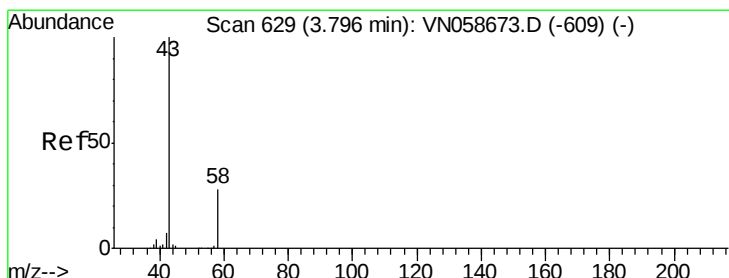
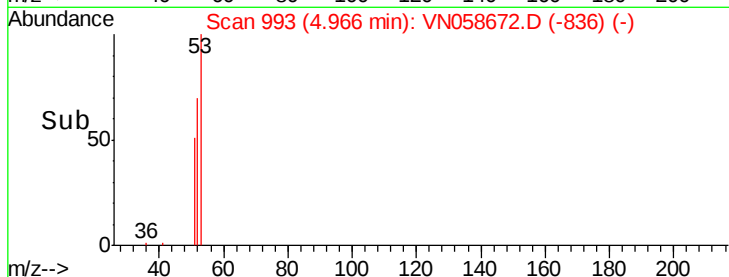
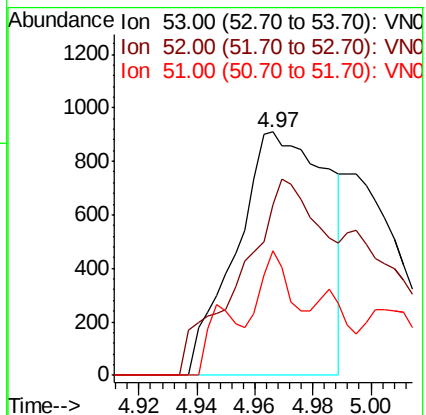
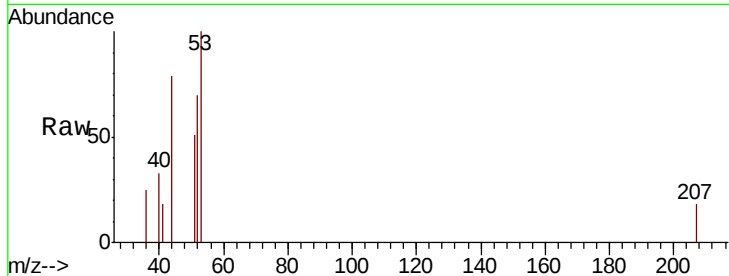
Tot Ion: 53 Resp: 1986

Ion Ratio Lower Upper

53 100

52 74.7 42.2 126.6

51 19.3 18.8 56.4



#15

Acetone

Concen: 1.073 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058672.D

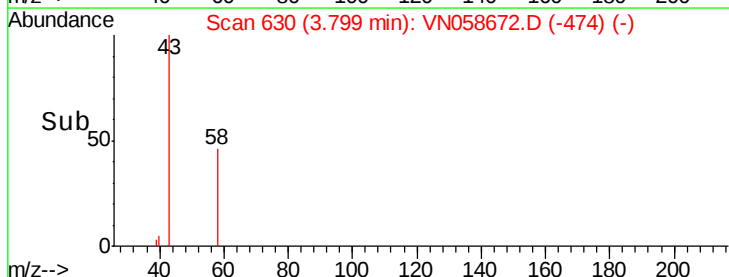
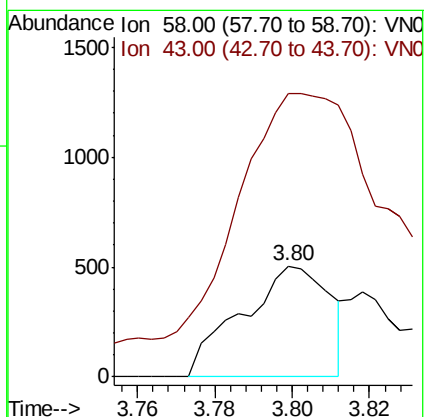
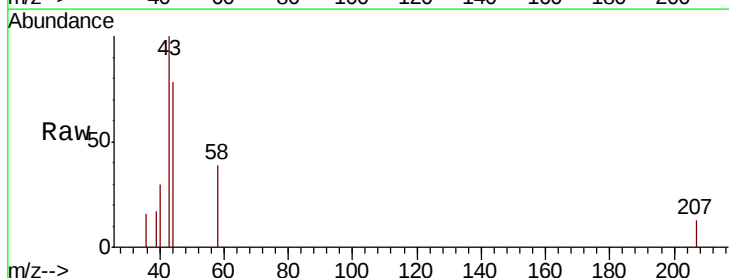
Acq: 10 Oct 2019 18:12

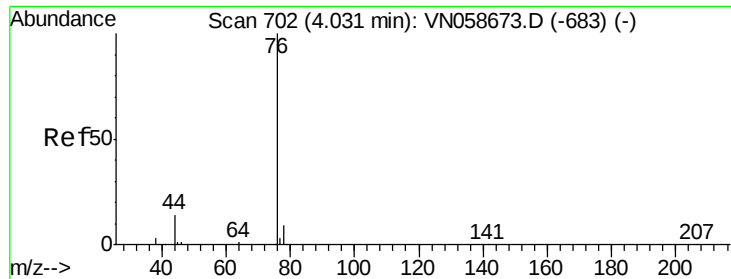
Tgt Ion: 58 Resp: 797

Ion Ratio Lower Upper

58 100

43 202.4 281.7 422.5#

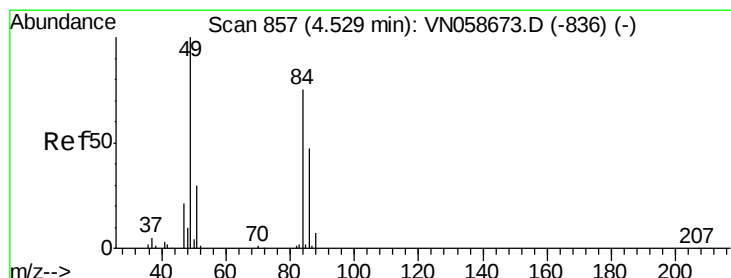
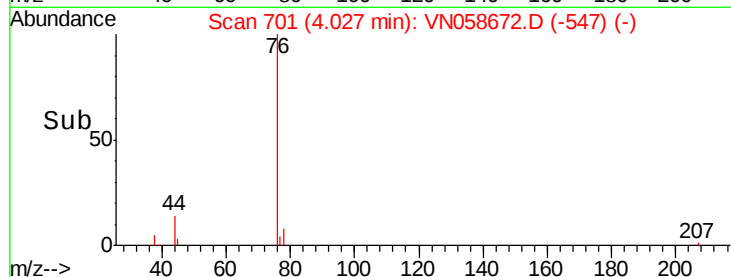
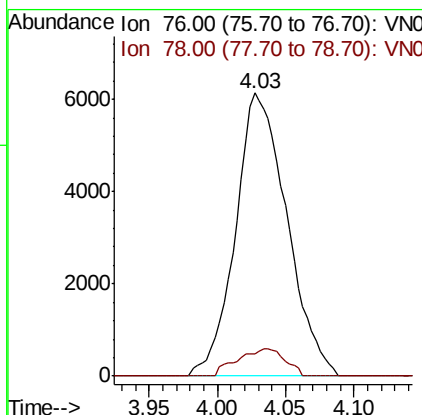
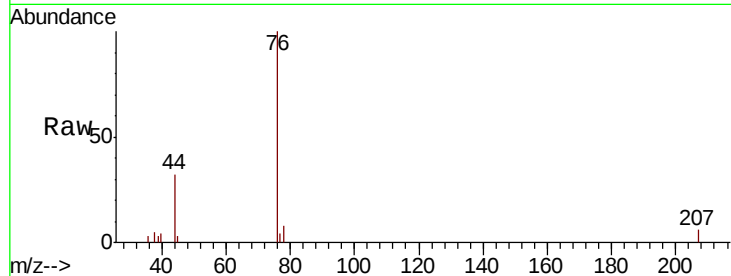




#16
Carbon Disulfide
Concen: 1.384 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

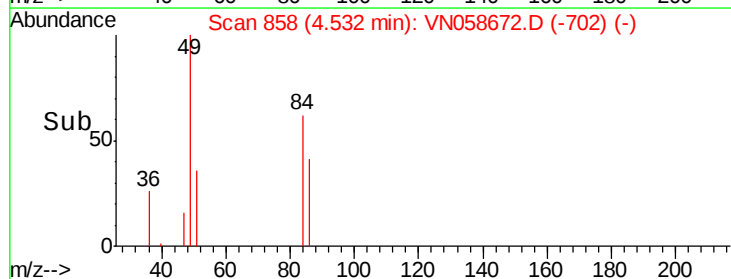
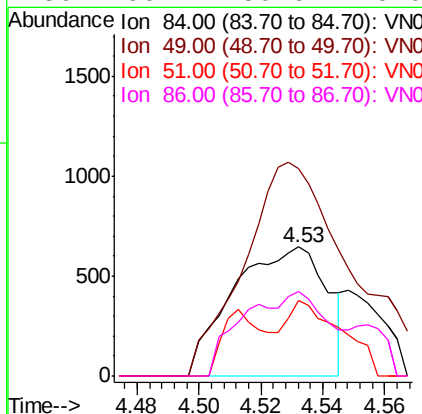
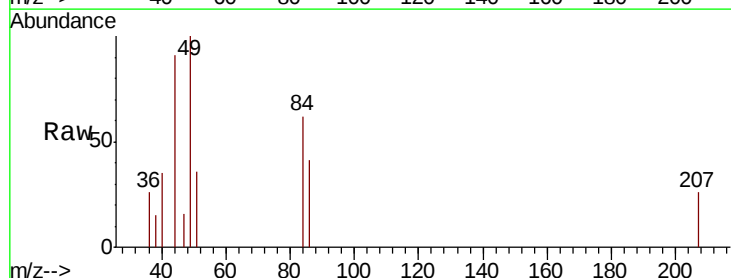
Instrument :
MSVOA_N
ClientSampleId :

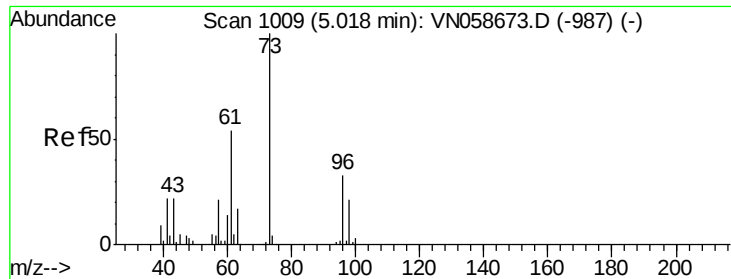
Tot Ion: 76 Resp: 16031
Ion Ratio Lower Upper
76 100
78 7.9 7.4 11.0



#18
Methylene Chloride
Concen: 0.283 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Tgt Ion: 84 Resp: 1359
Ion Ratio Lower Upper
84 100
49 161.3 106.6 160.0#
51 58.2 32.4 48.6#
86 66.1 50.6 76.0

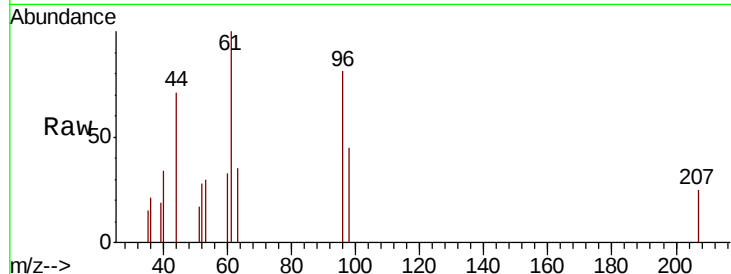




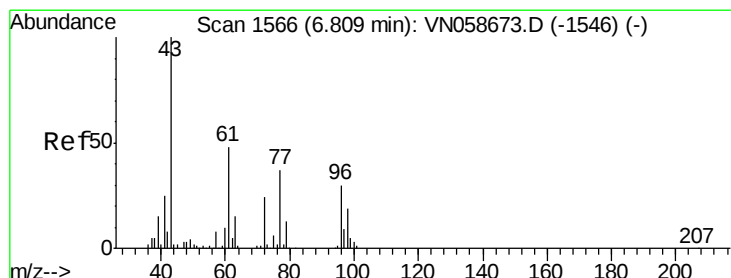
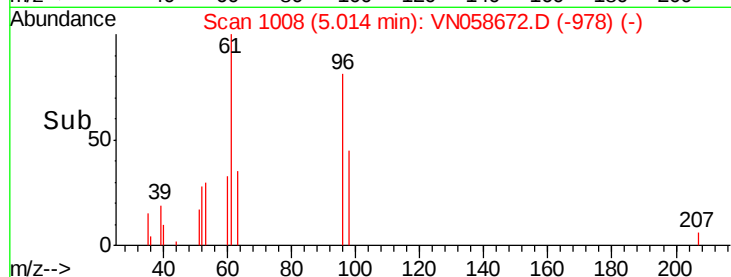
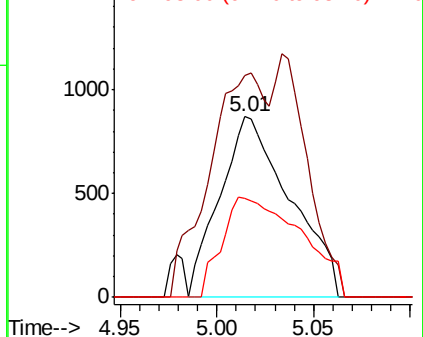
#19
trans-1,2-Dichloroethene
Concen: 0.510 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 96 Resp: 2203
Ion Ratio Lower Upper
96 100
61 104.9 131.8 197.6#
98 55.1 52.6 79.0

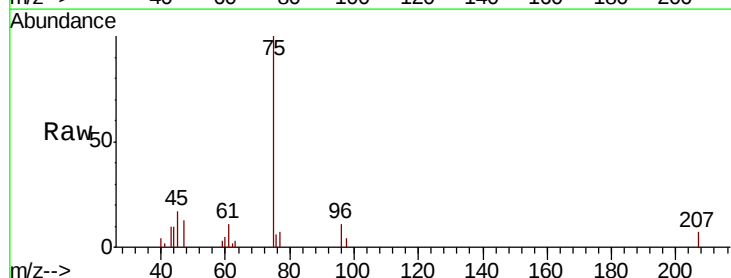


Abundance Ion 96.00 (95.70 to 96.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

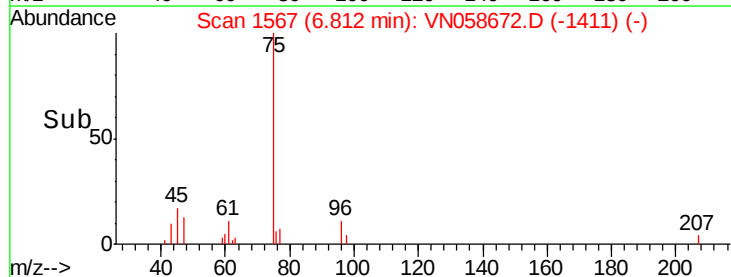
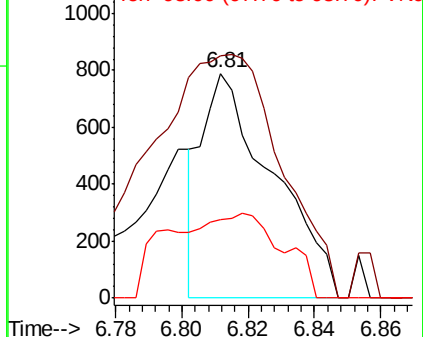


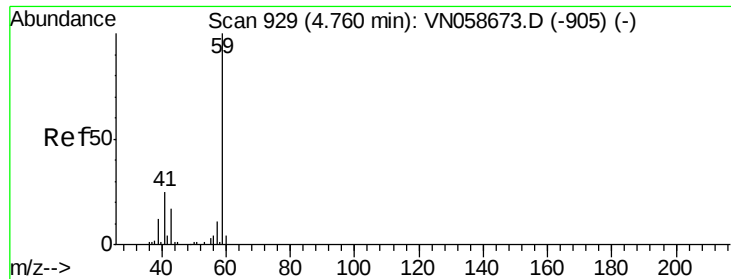
#22
cis-1,2-Dichloroethene
Concen: 0.226 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Tgt Ion: 96 Resp: 1166
Ion Ratio Lower Upper
96 100
61 203.7 127.2 190.8#
98 0.0 50.5 75.7#



Abundance Ion 96.00 (95.70 to 96.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

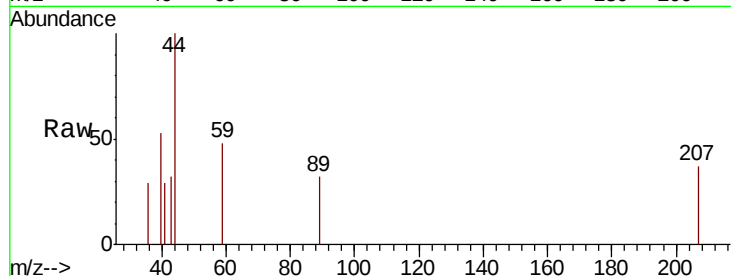




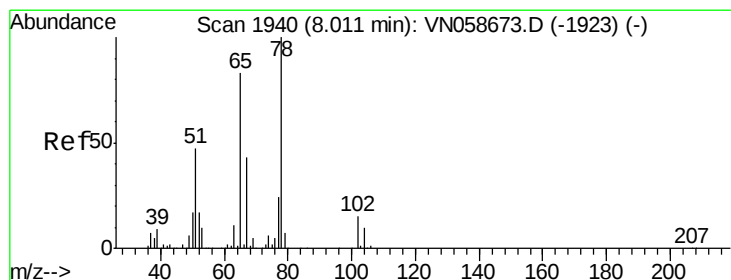
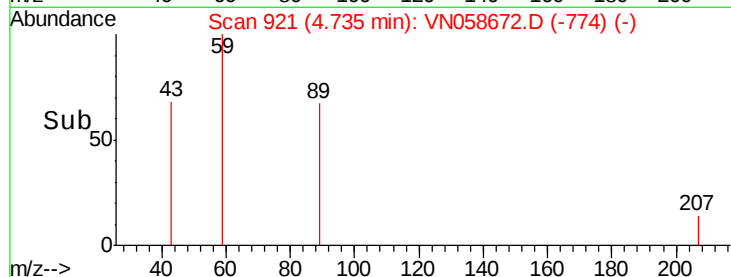
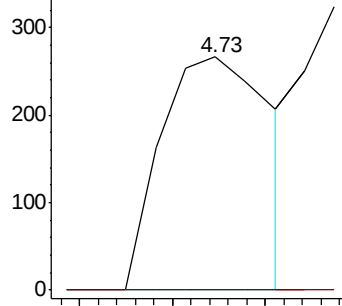
#23
tert-Butyl Alcohol
Concen: 0.212 ug/l
RT: 4.73 min Scan# 921
Delta R.T. -0.03 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 59 Resp: 217
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

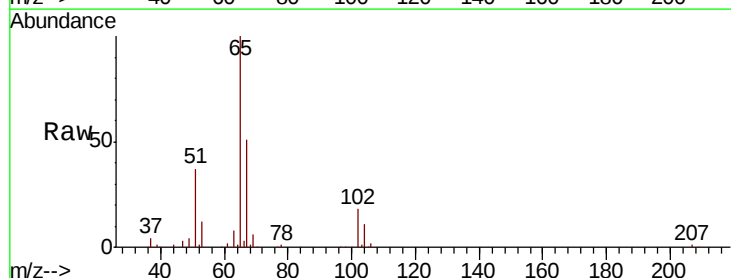


Abundance Ion 59.00 (58.70 to 59.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

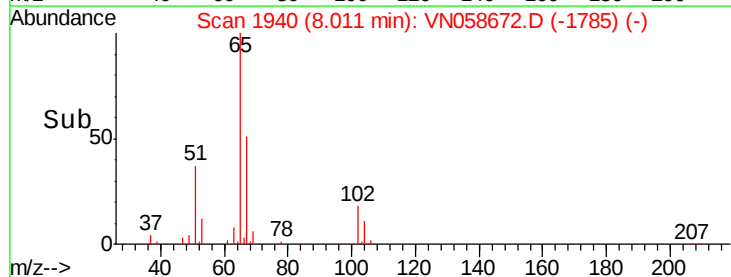
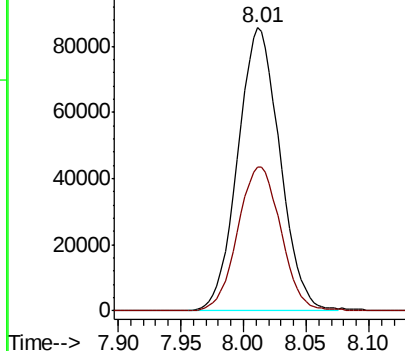


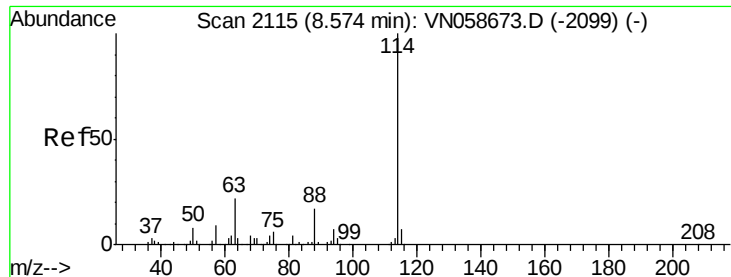
#27
1,2-Dichloroethane-d4
Concen: 30.999 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Tgt Ion: 65 Resp: 199629
Ion Ratio Lower Upper
65 100
67 52.2 41.5 62.3



Abundance Ion 65.00 (64.70 to 65.70): VN0
Ion 67.00 (66.70 to 67.70): VN0

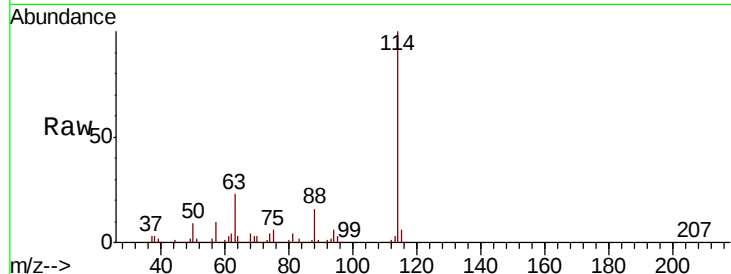




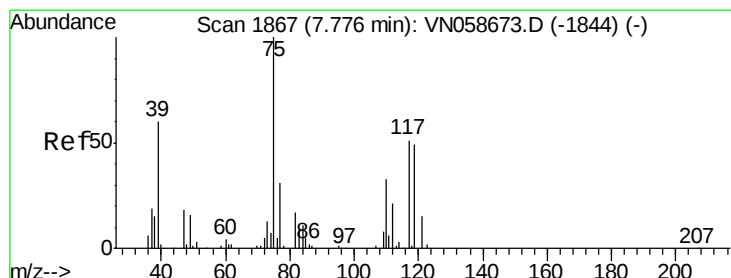
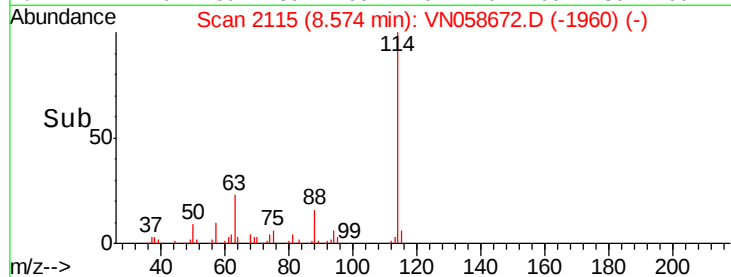
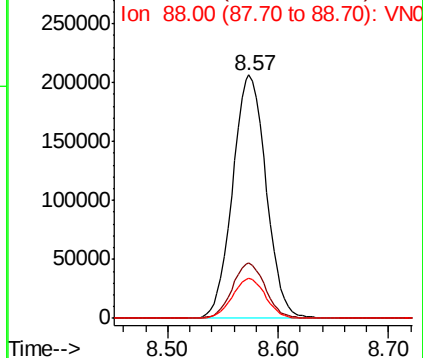
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058672.D
 Acq: 10 Oct 2019 18:12

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 434503
 Ion Ratio Lower Upper
 114 100
 63 22.4 18.1 27.1
 88 16.2 13.0 19.4

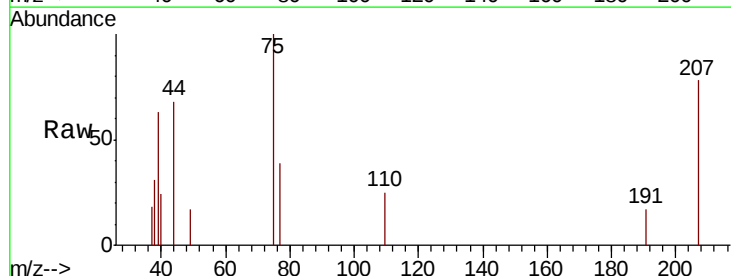


Abundance Ion 114.00 (113.70 to 114.70): VN058672.D (-1960) (-)
 Ion 63.00 (62.70 to 63.70): VN058672.D (-1960) (-)
 Ion 88.00 (87.70 to 88.70): VN058672.D (-1960) (-)

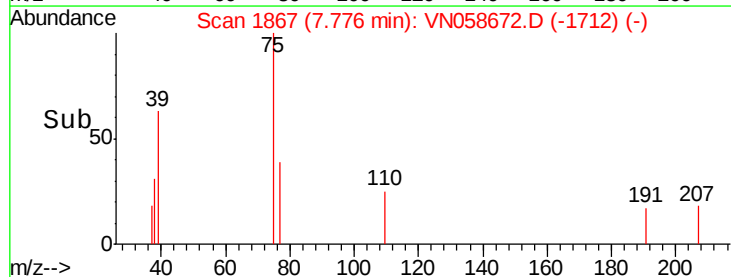
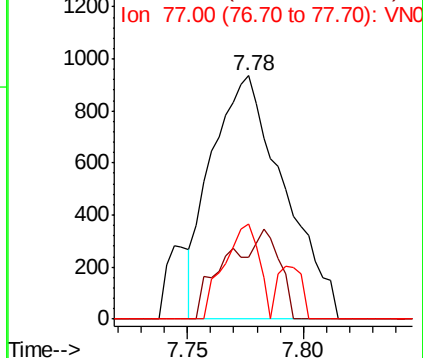


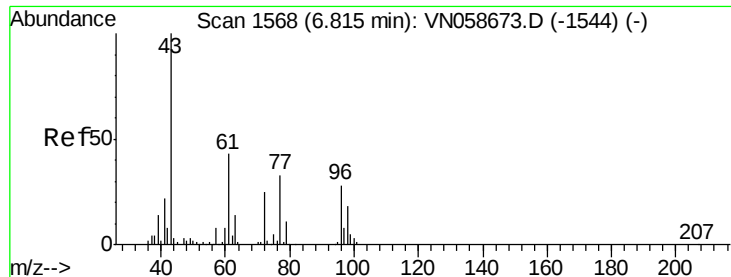
#29
 1,1-Dichloropropene
 Concen: 0.297 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN058672.D
 Acq: 10 Oct 2019 18:12

Tgt Ion: 75 Resp: 2030
 Ion Ratio Lower Upper
 75 100
 110 12.9 0.0 64.6
 77 18.8 0.0 60.8



Abundance Ion 75.00 (74.70 to 75.70): VN058672.D (-1712) (-)
 Ion 110.00 (109.70 to 110.70): VN058672.D (-1712) (-)
 Ion 77.00 (76.70 to 77.70): VN058672.D (-1712) (-)

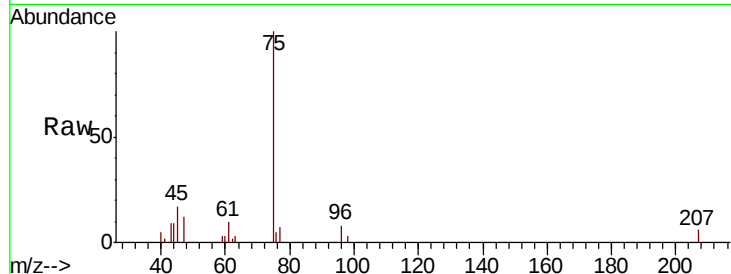




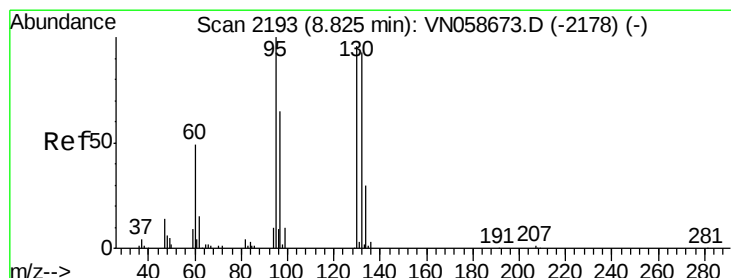
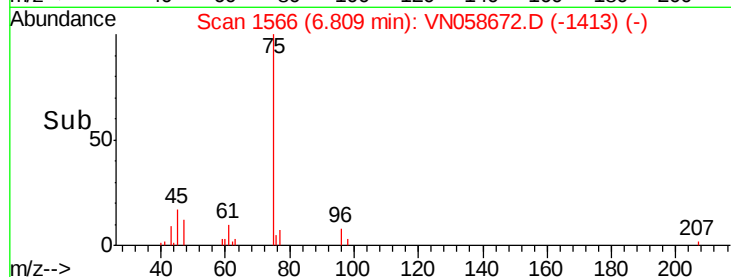
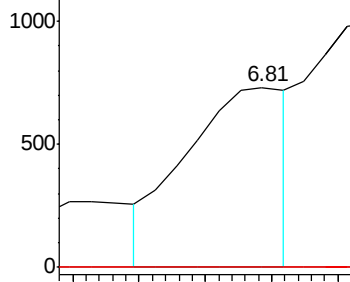
#30
2-Butanone
Concen: 0.202 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 782
Ion Ratio Lower Upper
43 100
57 0.0 6.5 9.7#
72 0.0 20.1 30.1#

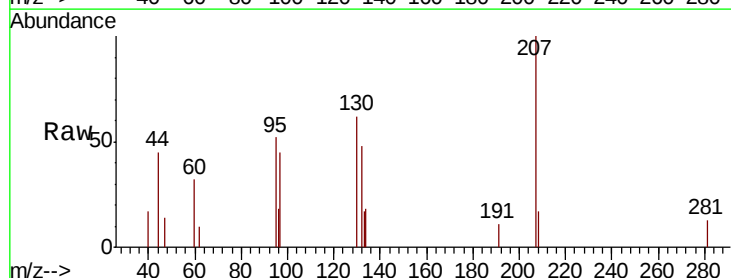


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 57.00 (56.70 to 57.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

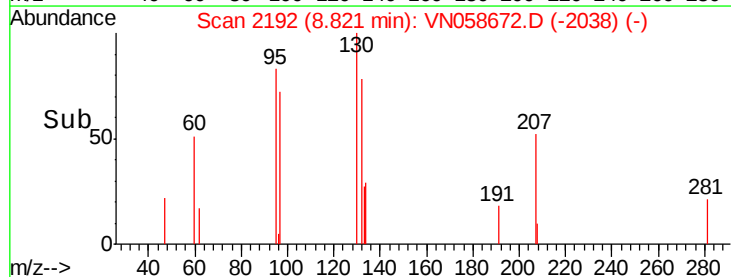
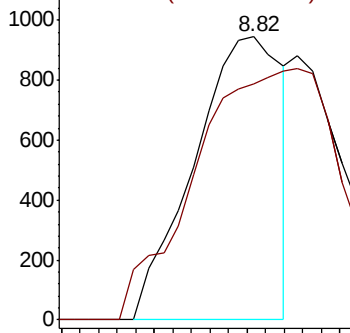


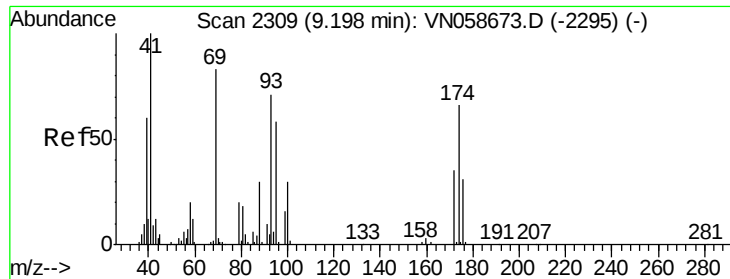
#37
Trichloroethene
Concen: 0.252 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Tgt Ion:130 Resp: 1247
Ion Ratio Lower Upper
130 100
95 65.7 83.2 124.8#



Abundance Ion 129.90 (129.60 to 130.60): V
Ion 94.90 (94.60 to 95.60): VN0





#40

Dibromomethane

Concen: 0.261 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :
MSVOA_N
ClientSampled :

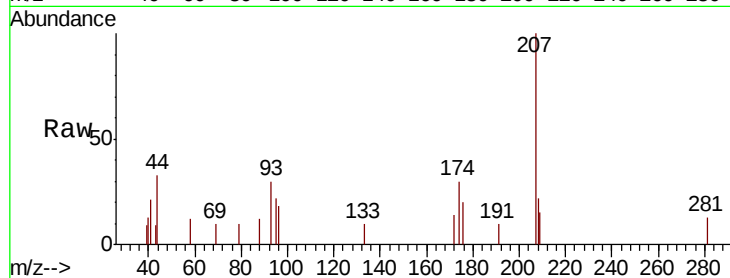
Tot Ion: 93 Resp: 905

Ion Ratio Lower Upper

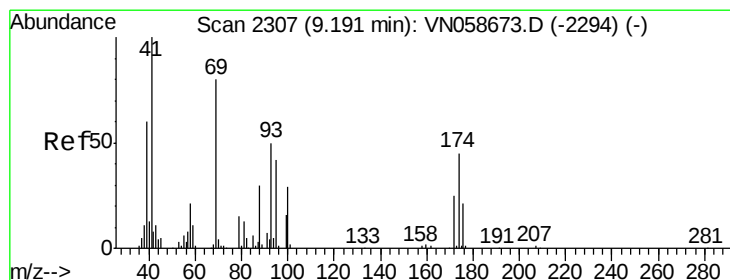
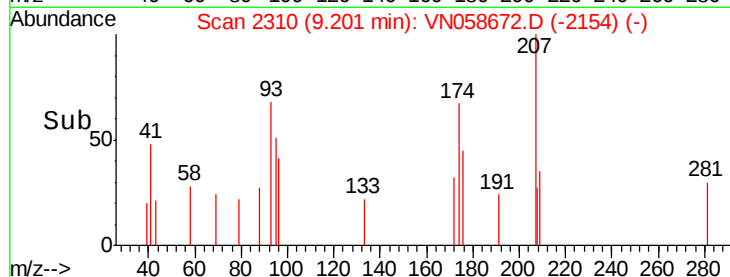
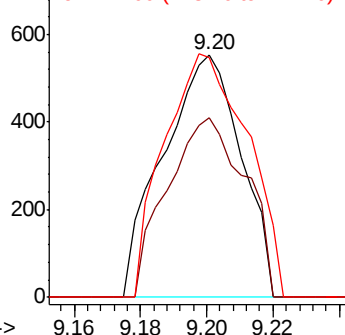
93 100

95 74.3 0.0 167.6

174 107.1 0.0 187.2



Abundance Ion 93.00 (92.70 to 93.70): VN0
Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V



#45

1,4-Dioxane

Concen: 3.476 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

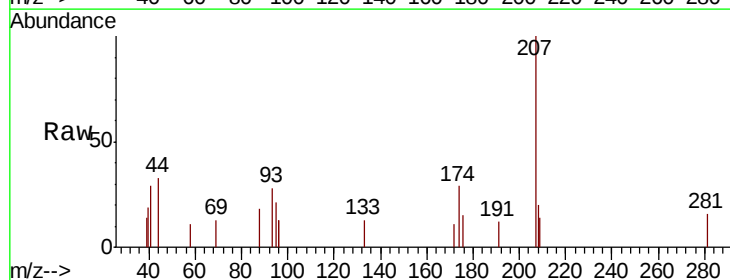
Tgt Ion: 88 Resp: 328

Ion Ratio Lower Upper

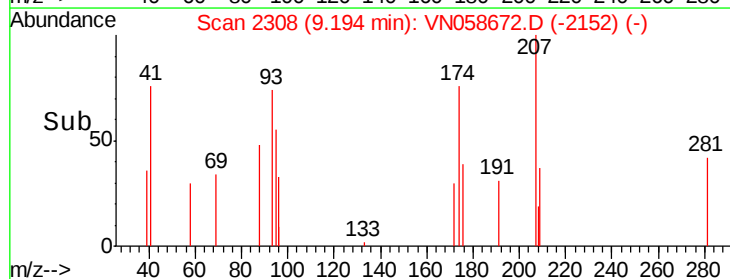
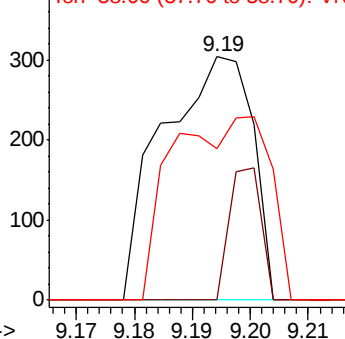
88 100

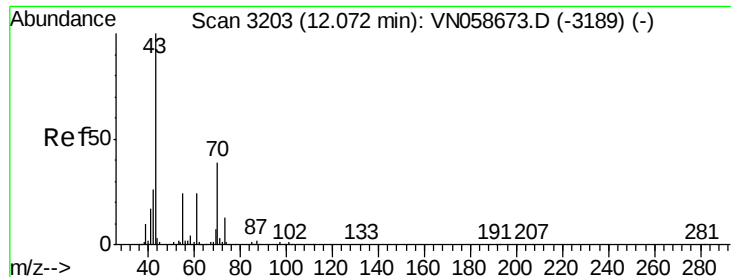
43 19.2 29.8 44.8#

58 36.6 58.2 87.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#47

n-amvl Acetate

Concen: 0.217 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

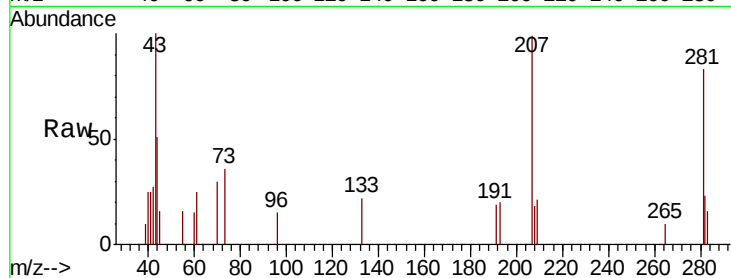
ClientSampleId :

Tot Ion: 43 Resp: 2360

Ion Ratio Lower Upper

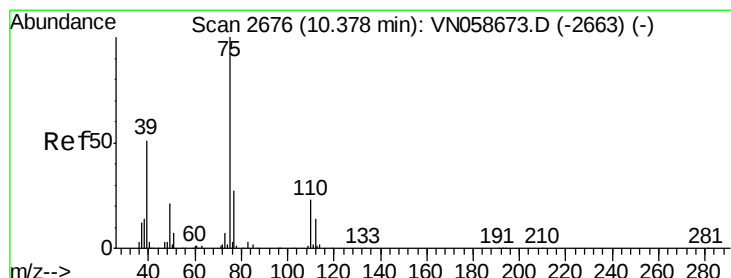
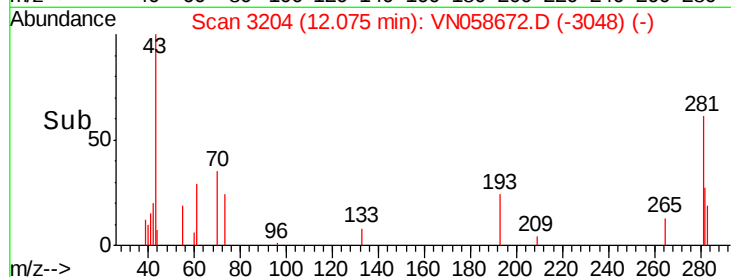
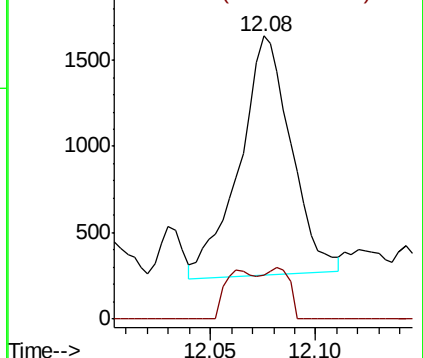
43 100

55 12.3 19.6 29.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#48

t-1,3-Dichloropropene

Concen: 0.258 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN058672.D

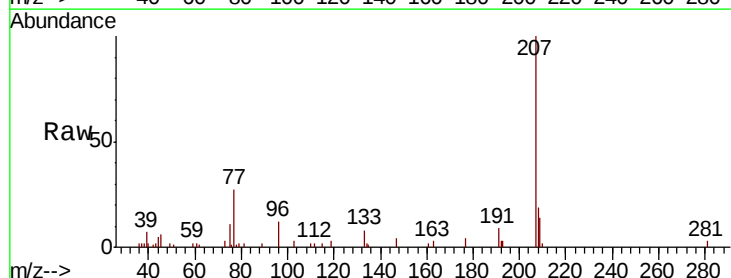
Acq: 10 Oct 2019 18:12

Tgt Ion: 75 Resp: 2122

Ion Ratio Lower Upper

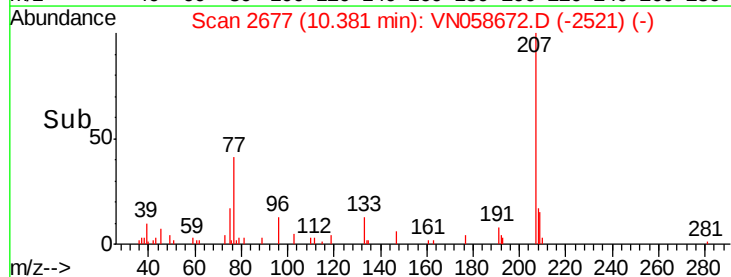
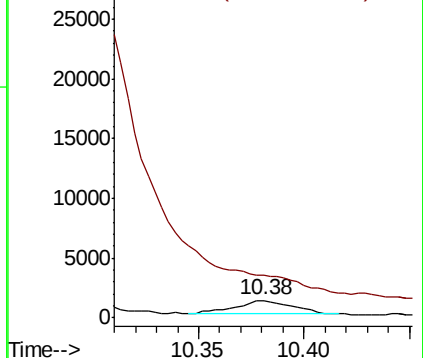
75 100

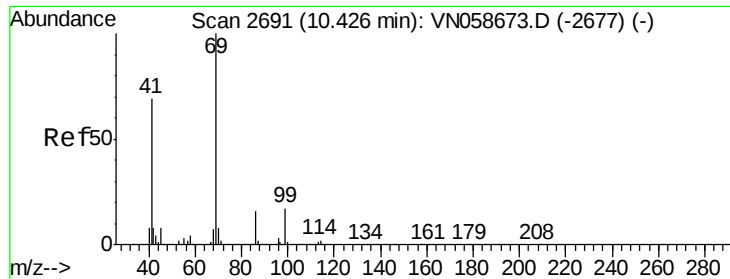
77 122.3 27.0 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#51

Ethyl methacrylate

Concen: 0.226 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

ClientSampled :

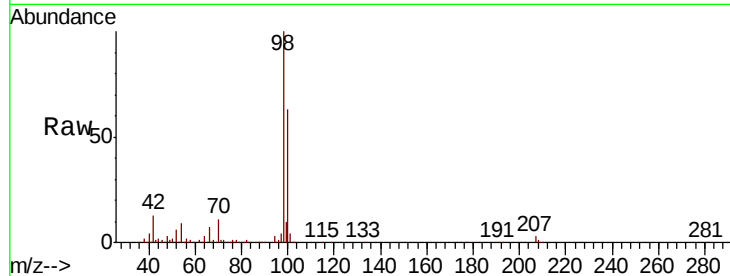
Tot Ion: 69 Resp: 1791

Ion Ratio Lower Upper

69 100

41 53.7 34.7 104.1

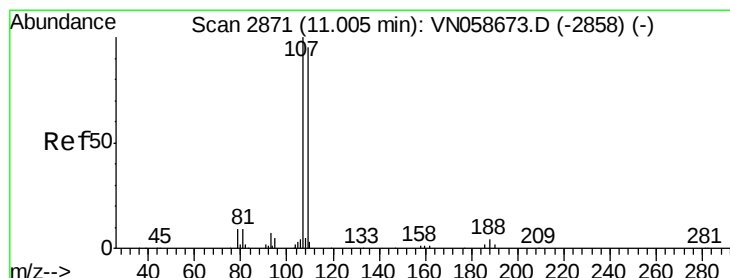
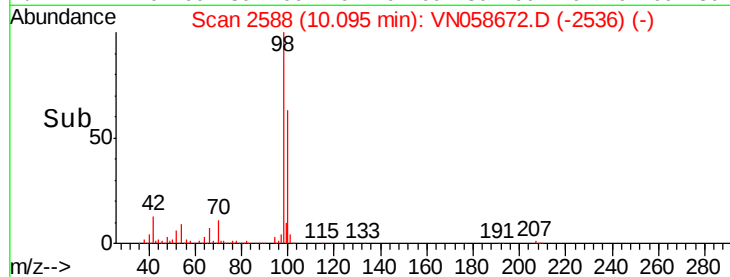
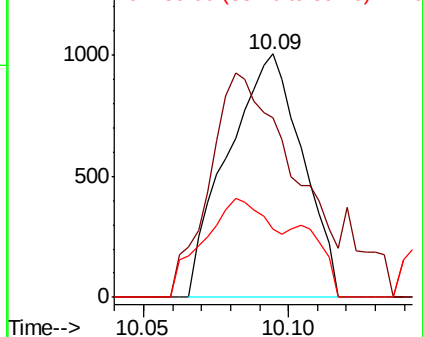
39 27.9 20.3 60.8



Abundance Ion 69.00 (68.70 to 69.70): VN058672.D (-2536) (-)

Ion 41.00 (40.70 to 41.70): VN058672.D (-2536) (-)

Ion 39.00 (38.70 to 39.70): VN058672.D (-2536) (-)



#54

1,2-Dibromoethane

Concen: 0.221 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN058672.D

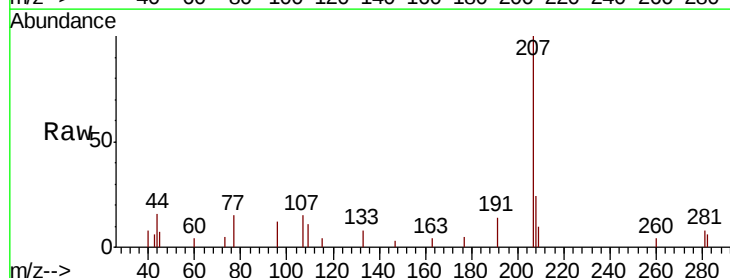
Acq: 10 Oct 2019 18:12

Tgt Ion: 107 Resp: 1136

Ion Ratio Lower Upper

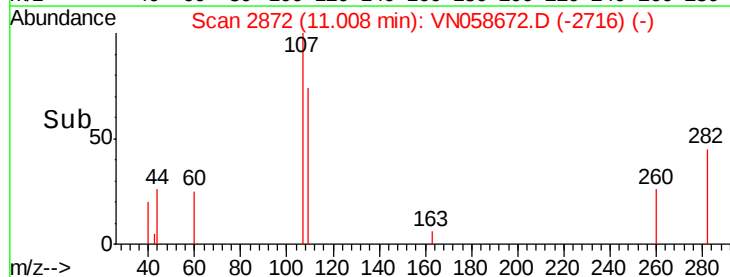
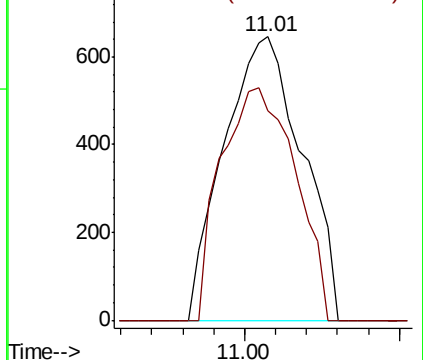
107 100

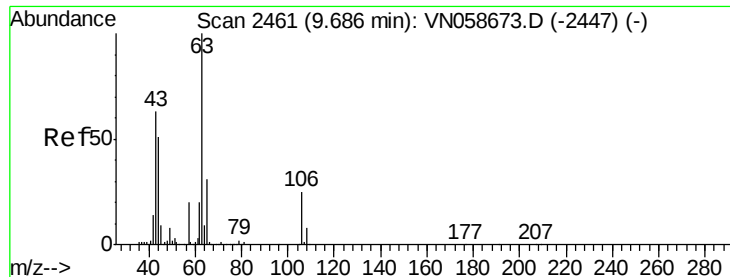
109 78.0 76.2 114.4



Abundance Ion 107.00 (106.70 to 107.70): VN058672.D (-2716) (-)

Ion 109.00 (108.70 to 109.70): VN058672.D (-2716) (-)





#55

2-Chloroethyl vinyl ether

Concen: 0.421 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

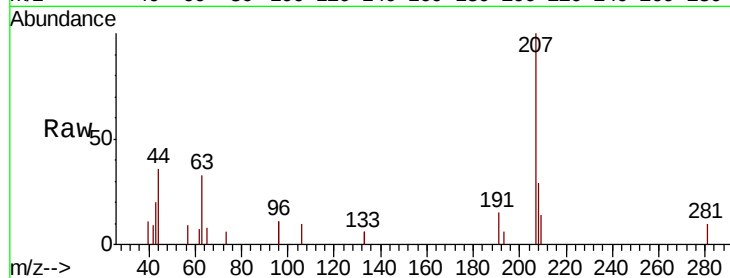
Tot Ion: 63 Resp: 1659

Ion Ratio Lower Upper

63 100

65 17.8 25.3 37.9#

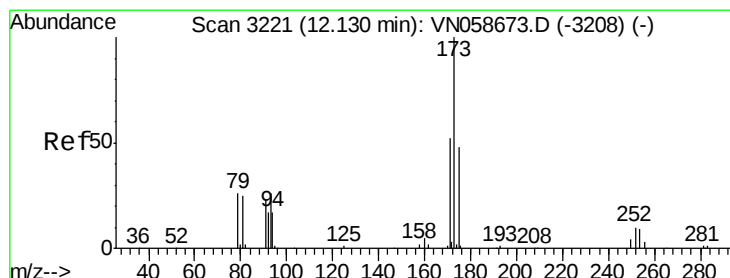
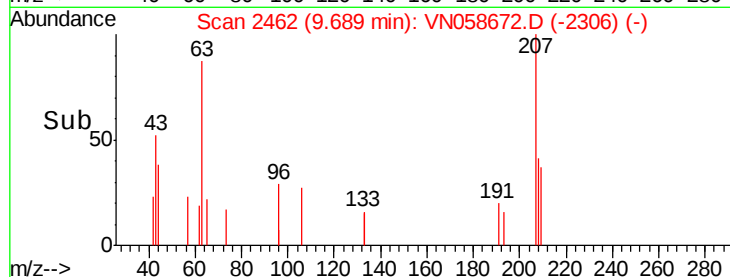
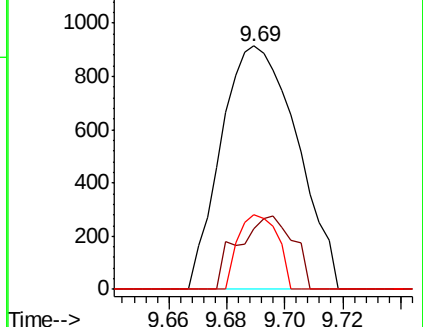
106 16.2 19.8 29.6#



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

Ion 106.00 (105.70 to 106.70): VN0



#56

Bromoform

Concen: 0.245 ug/l

RT: 12.13 min Scan# 3221

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

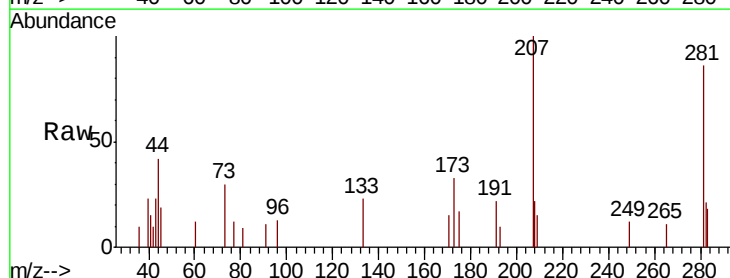
Tgt Ion: 173 Resp: 907

Ion Ratio Lower Upper

173 100

175 22.1 38.7 58.1#

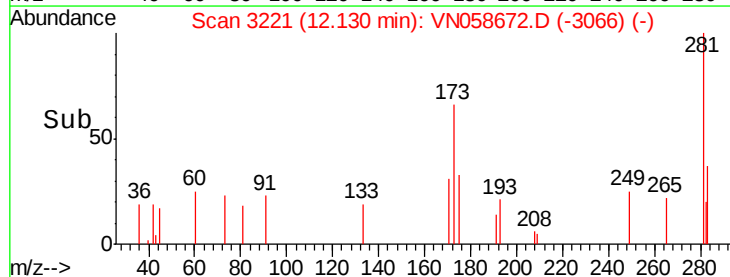
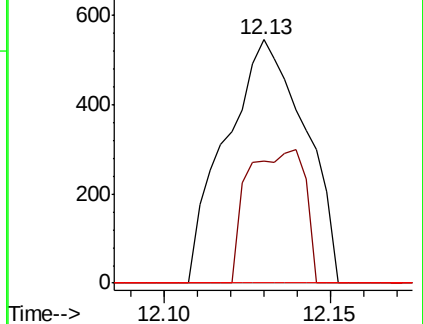
254 0.0 7.4 11.2#

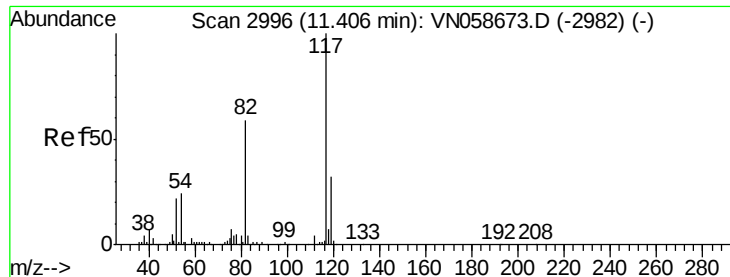


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

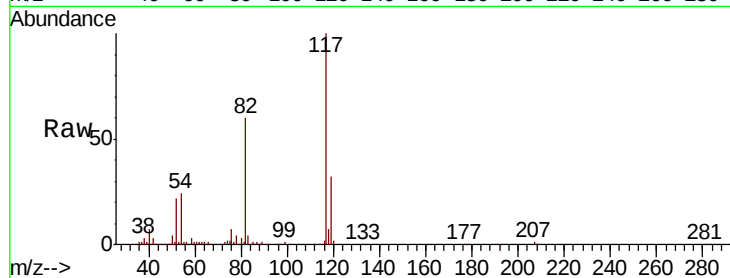
Tot Ion:117 Resp: 378980

Ion Ratio Lower Upper

117 100

82 59.0 46.9 70.3

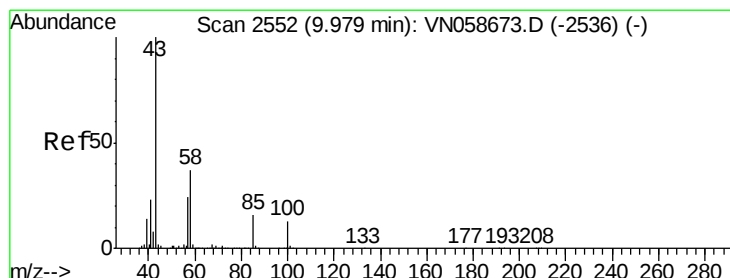
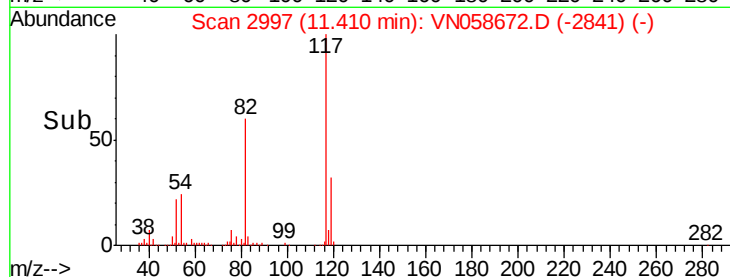
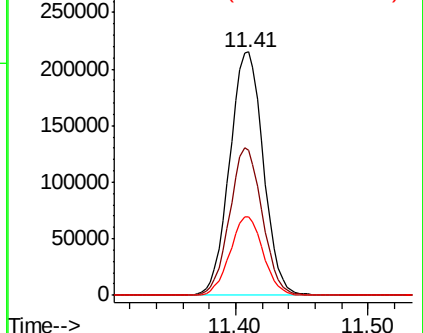
119 31.8 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 0.502 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

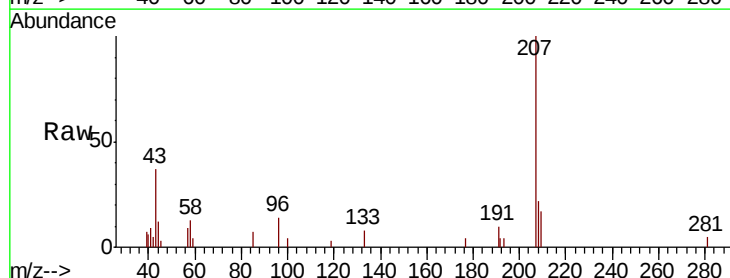
Tgt Ion: 43 Resp: 3474

Ion Ratio Lower Upper

43 100

58 31.0 30.1 45.1

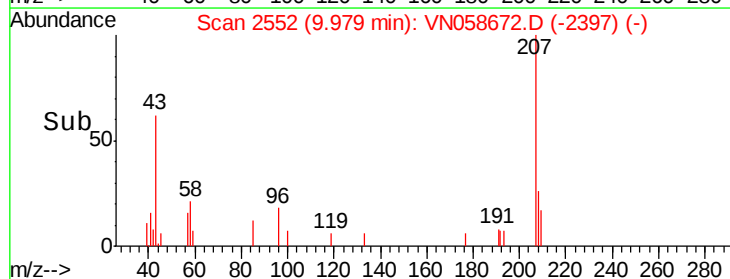
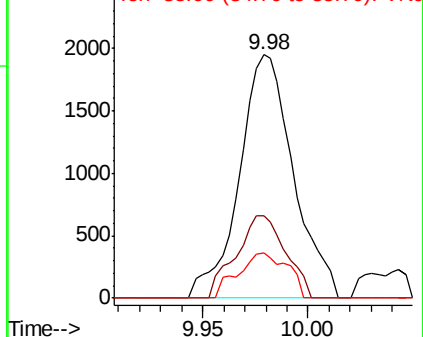
85 5.7 13.2 19.8#

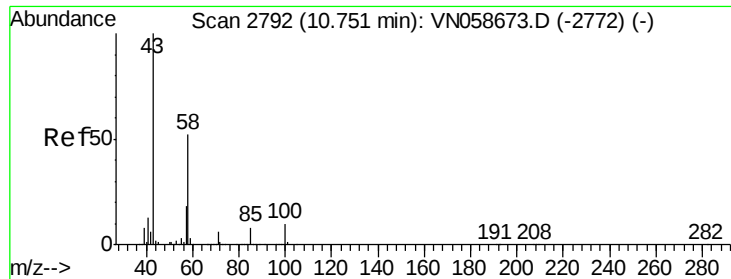


Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

Ion 85.00 (84.70 to 85.70): VN

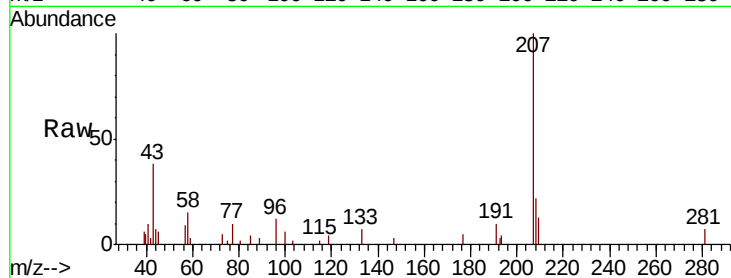




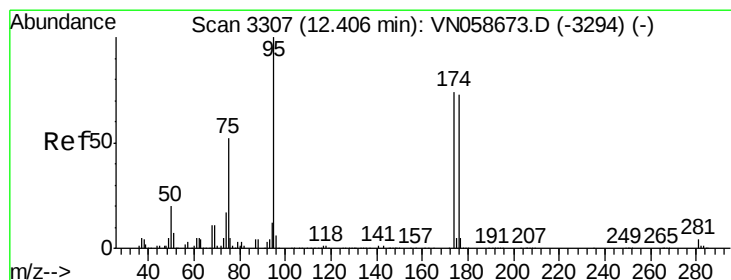
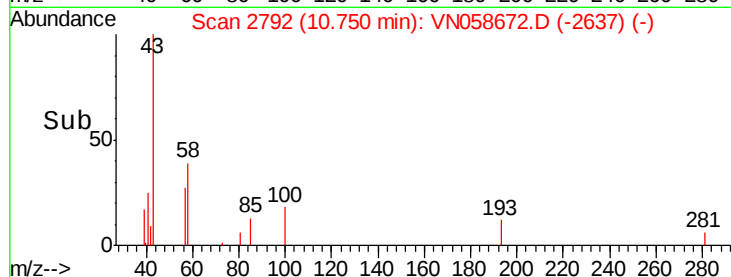
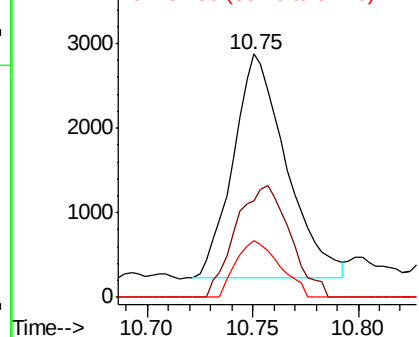
#59
2-Hexanone
Concen: 0.849 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 4604
Ion Ratio Lower Upper
43 100
58 50.6 41.4 62.0
57 21.0 14.7 22.1

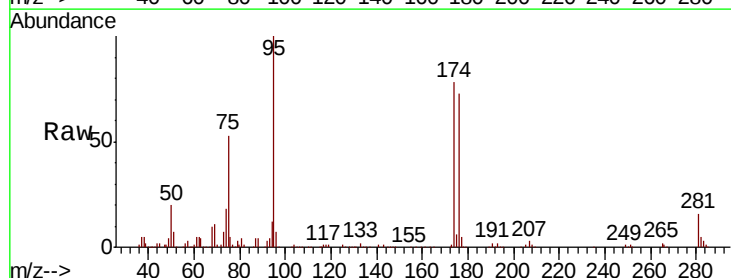


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

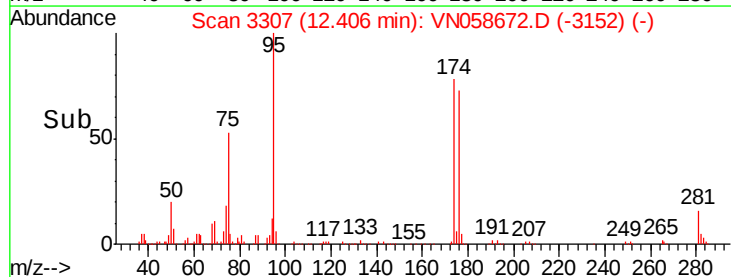
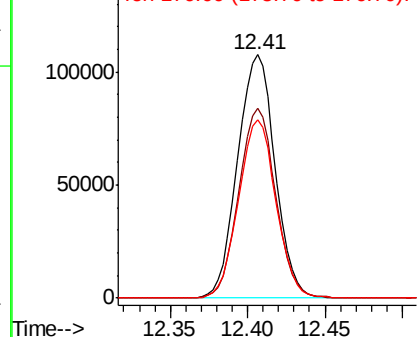


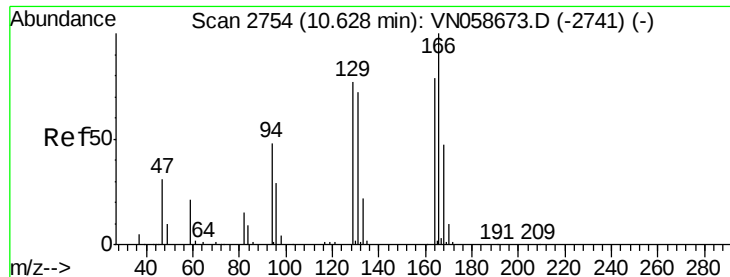
#60
4-Bromofluorobenzene
Concen: 27.332 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Tgt Ion: 95 Resp: 181195
Ion Ratio Lower Upper
95 100
174 76.9 59.9 89.9
176 73.3 58.3 87.5



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#61

Tetrachloroethene

Concen: 0.336 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:164 Resp: 1375

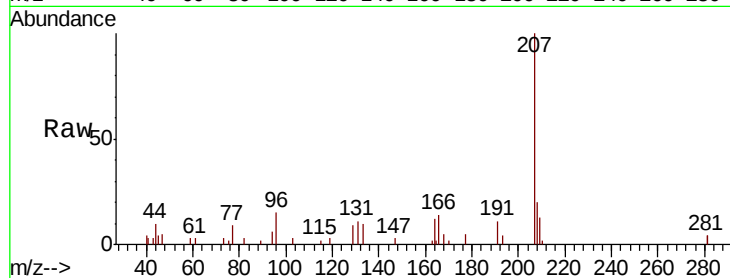
Ion Ratio Lower Upper

164 100

166 118.5 101.4 152.2

129 80.8 78.1 117.1

131 80.8 73.2 109.8



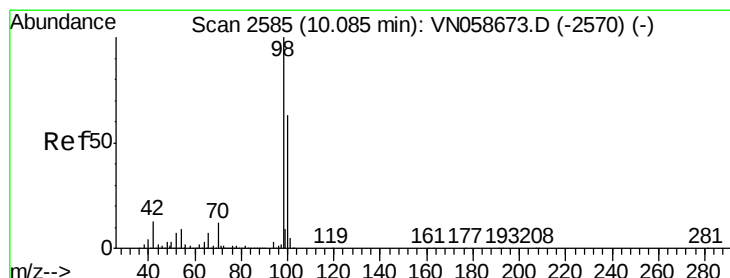
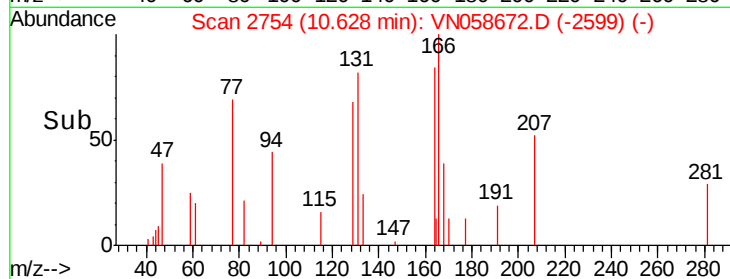
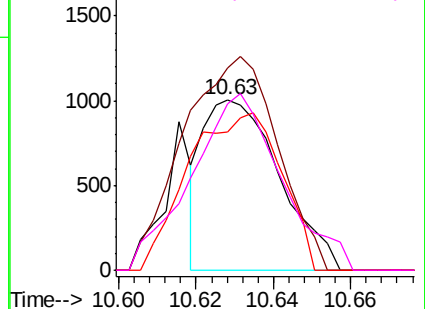
Abundance

Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#63

Toluene-d8

Concen: 29.996 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058672.D

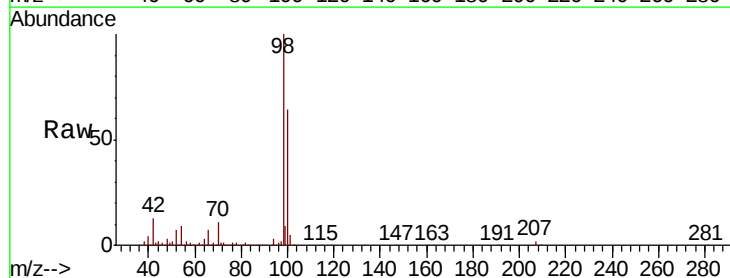
Acq: 10 Oct 2019 18:12

Tgt Ion: 98 Resp: 536743

Ion Ratio Lower Upper

98 100

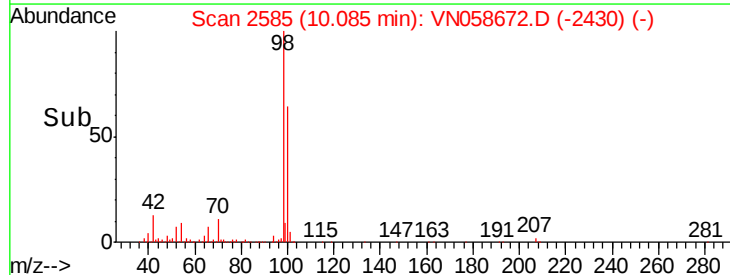
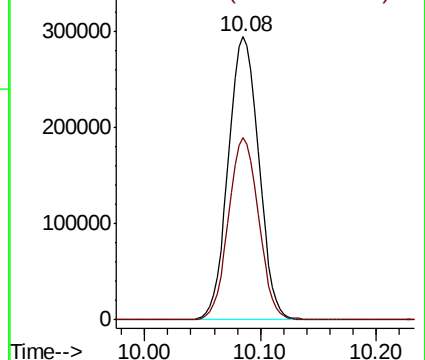
100 63.4 50.6 75.8

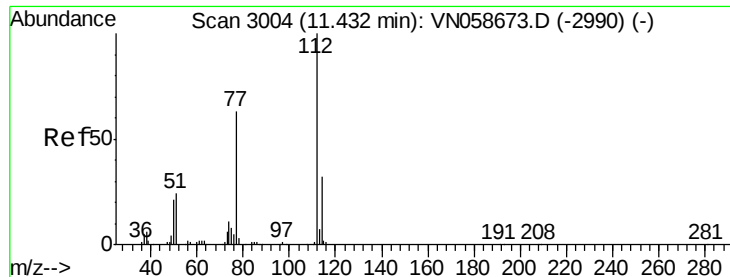


Abundance

Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#64

Chlorobenzene

Concen: 0.302 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

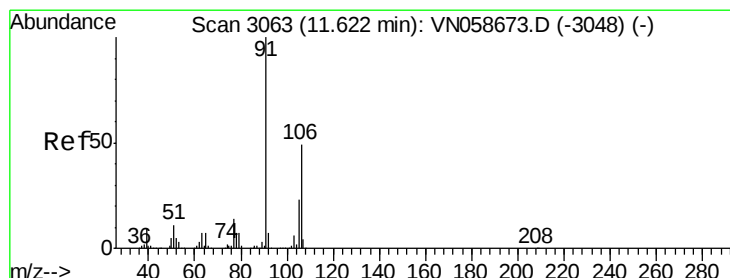
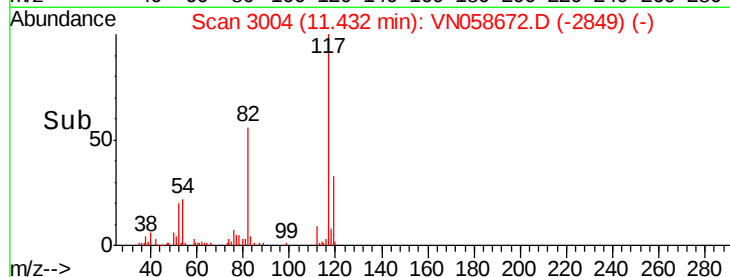
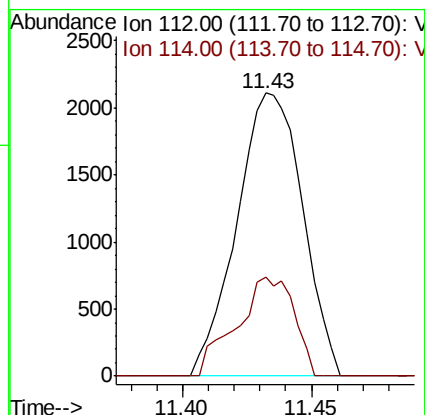
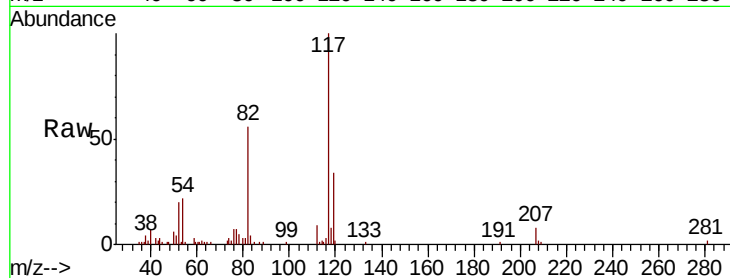
ClientSampleId :

Tot Ion:112 Resp: 3760

Ion Ratio Lower Upper

112 100

114 34.9 25.7 38.5



#67

m/p-Xylenes

Concen: 0.409 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN058672.D

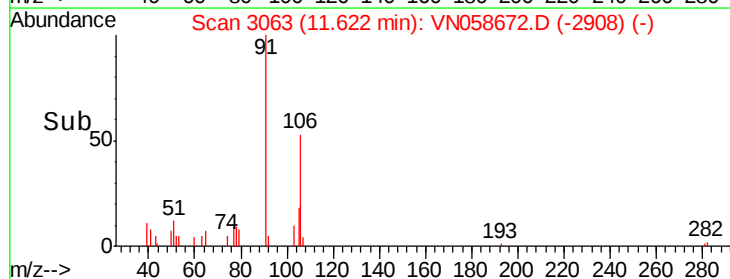
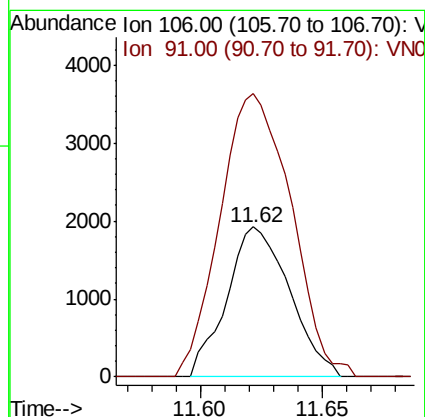
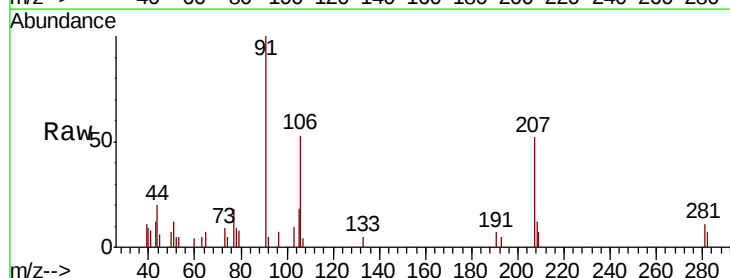
Acq: 10 Oct 2019 18:12

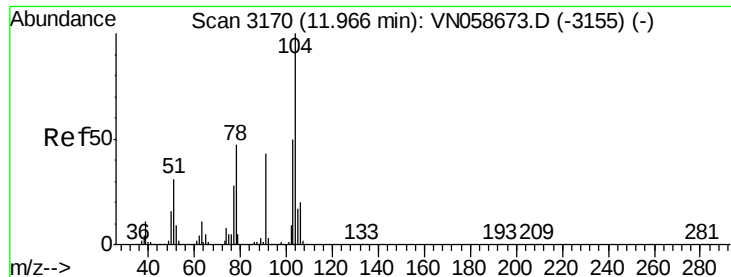
Tgt Ion:106 Resp: 3447

Ion Ratio Lower Upper

106 100

91 212.5 165.6 248.4

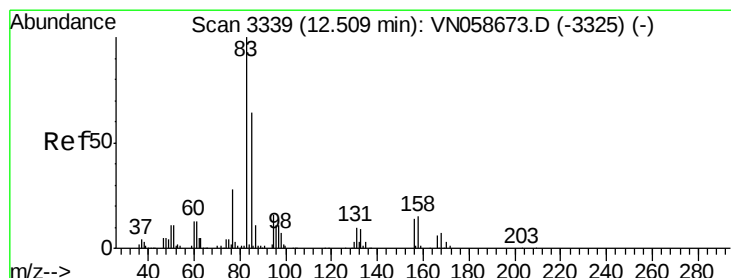
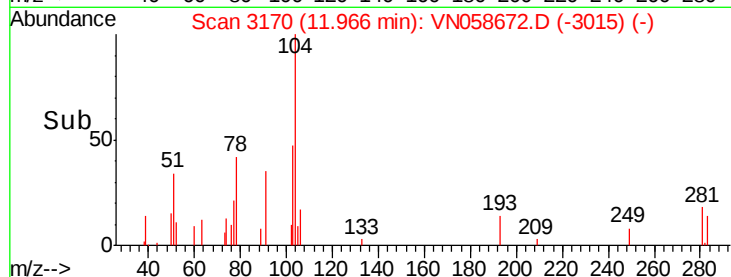
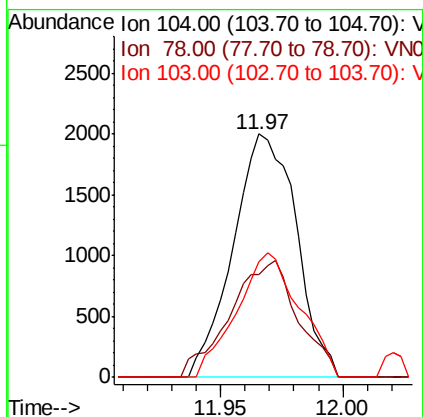
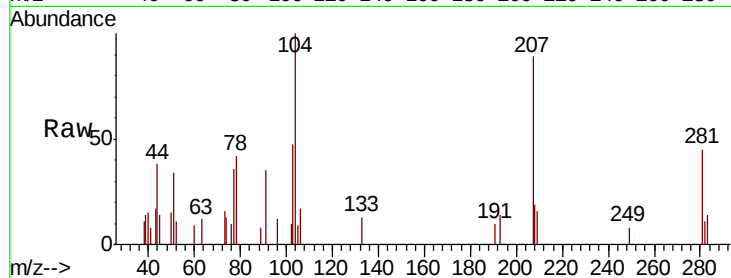




#69
Stvrene
Concen: 0.266 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

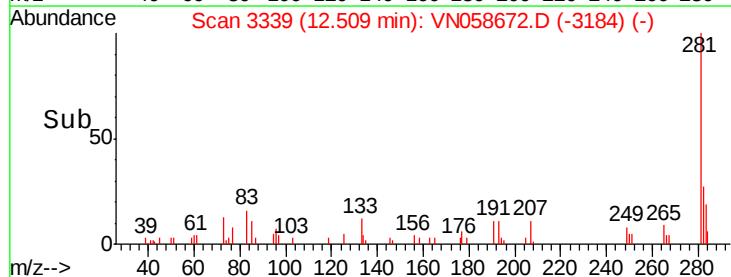
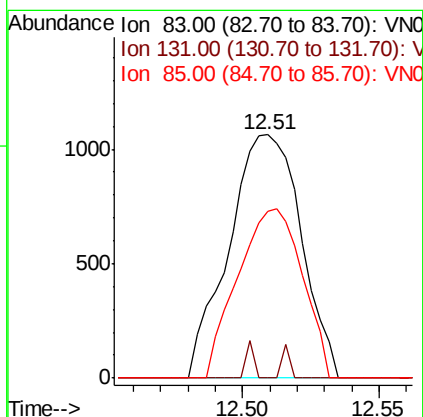
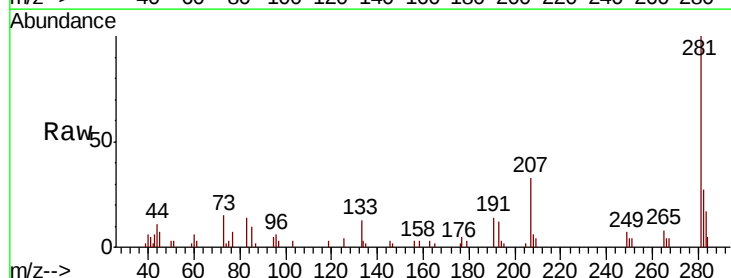
Instrument :
MSVOA_N
ClientSampled :

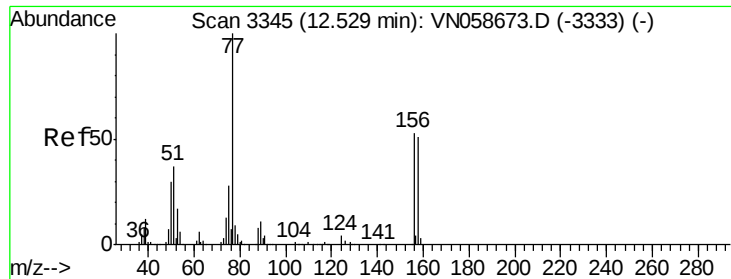
Tot Ion:104 Resp: 3591
Ion Ratio Lower Upper
104 100
78 51.4 42.4 63.6
103 51.0 44.6 66.8



#71
1,1,2,2-Tetrachloroethane
Concen: 0.263 ug/l
RT: 12.51 min Scan# 3339
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Tgt Ion: 83 Resp: 1957
Ion Ratio Lower Upper
83 100
131 10.7 4.9 14.7
85 62.3 31.6 94.7





#73

Bromobenzene

Concen: 0.295 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

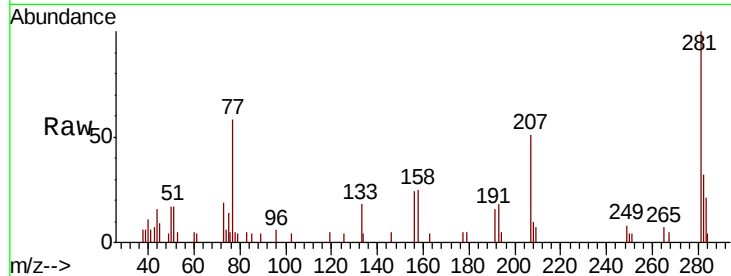
Tot Ion:156 Resp: 1582

Ion Ratio Lower Upper

156 100

77 254.9 0.0 456.0

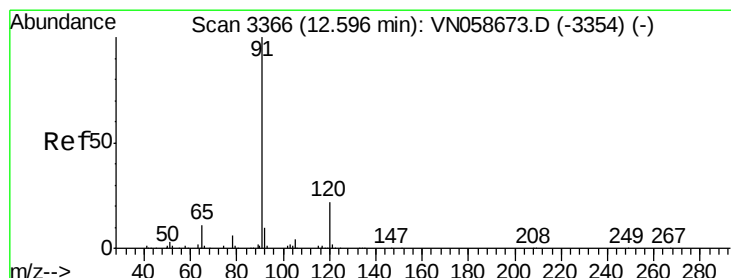
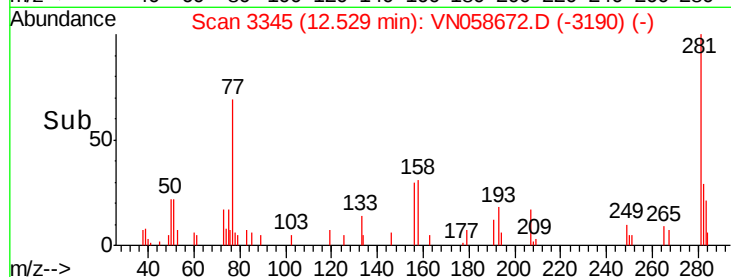
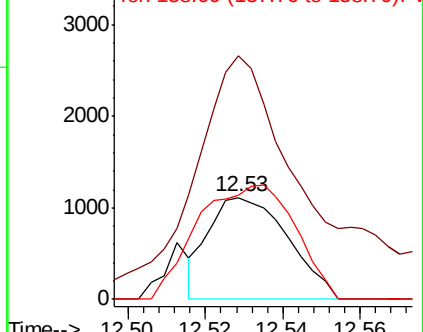
158 139.4 0.0 195.4



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 0.259 ug/l

RT: 12.60 min Scan# 3366

Delta R.T. -0.00 min

Lab File: VN058672.D

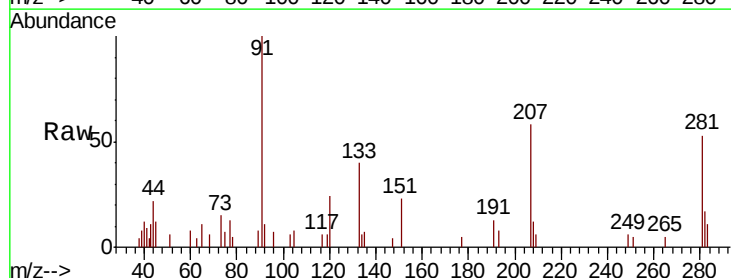
Acq: 10 Oct 2019 18:12

Tgt Ion: 91 Resp: 6695

Ion Ratio Lower Upper

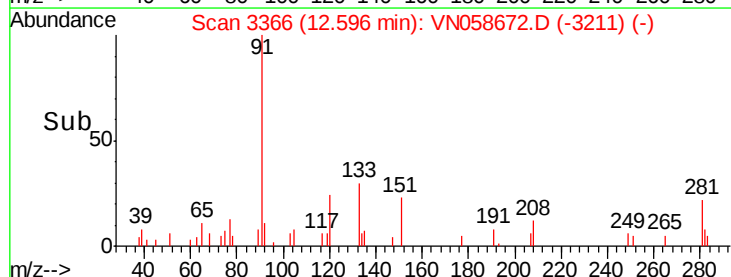
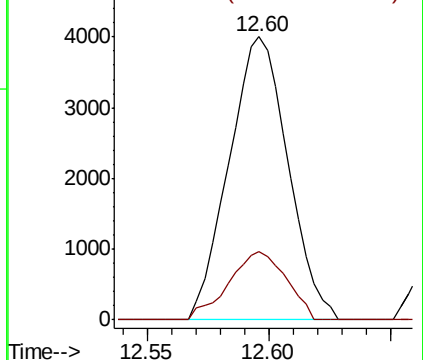
91 100

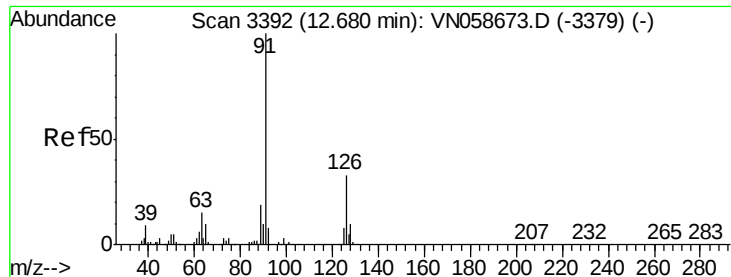
120 23.6 0.0 43.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 0.248 ug/l

RT: 12.68 min Scan# 3392

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

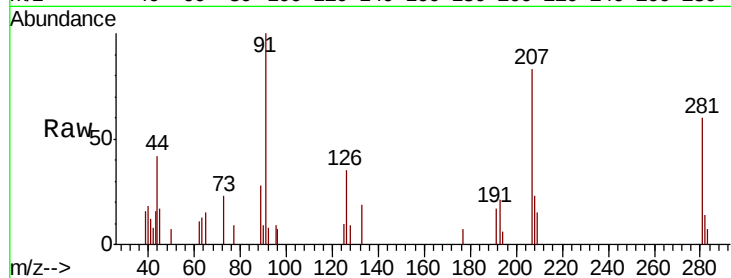
ClientSampled :

Tot Ion: 91 Resp: 3855

Ion Ratio Lower Upper

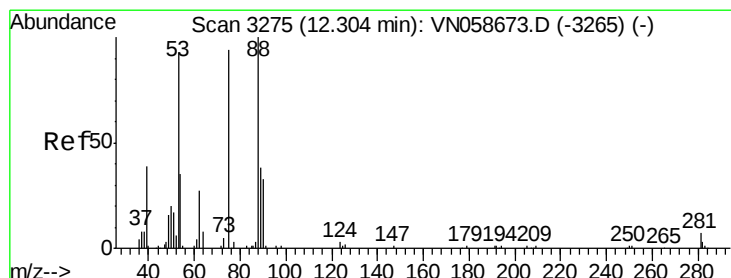
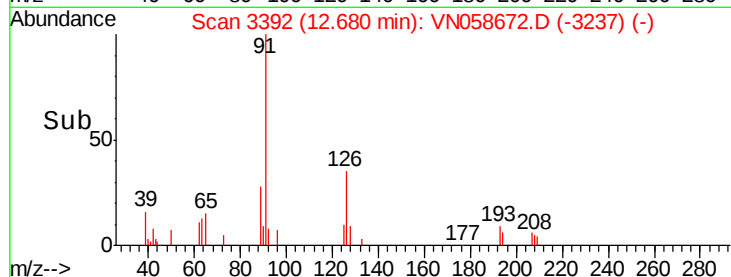
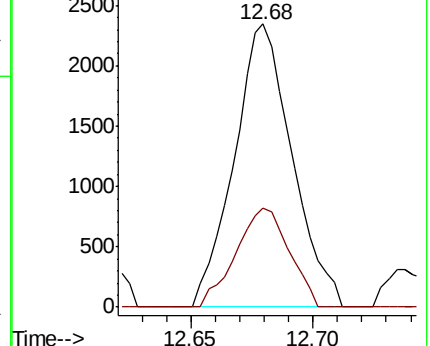
91 100

126 32.2 0.0 65.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V



#77

t-1,4-Dichloro-2-butene

Concen: 0.238 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.01 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

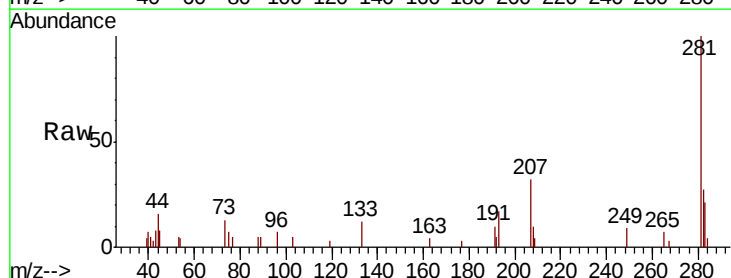
Tgt Ion: 75 Resp: 610

Ion Ratio Lower Upper

75 100

53 67.7 50.0 150.0

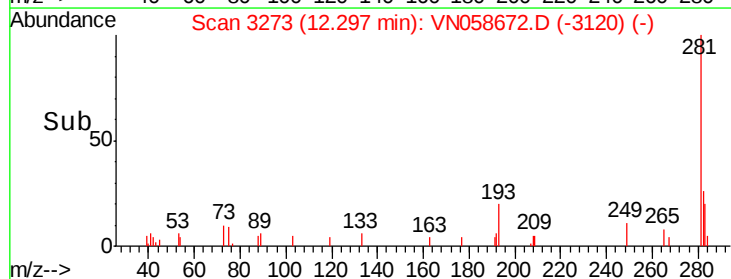
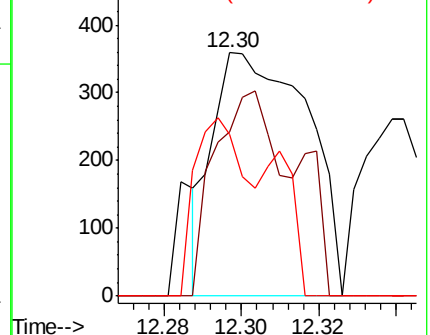
89 66.3 20.7 62.1#

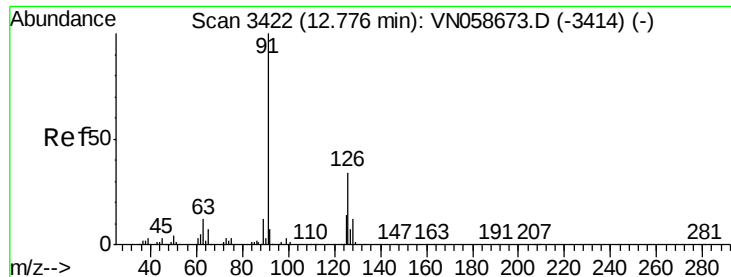


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0





#78

4-Chlorotoluene

Concen: 0.395 ug/l

RT: 12.78 min Scan# 3424

Delta R.T. 0.01 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

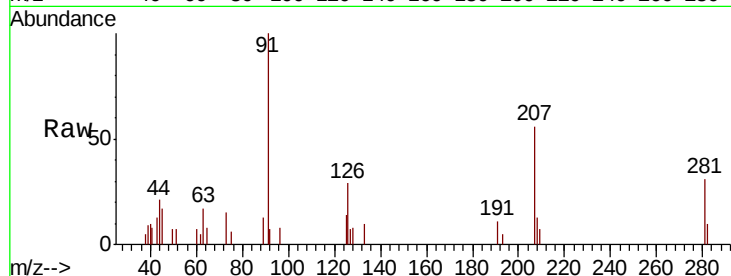
ClientSampleId :

Tot Ion: 91 Resp: 6321

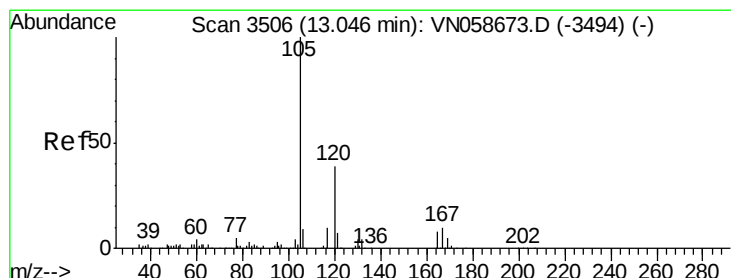
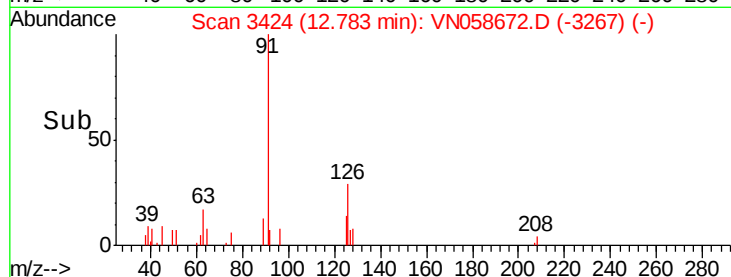
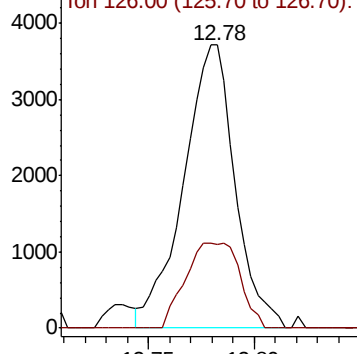
Ion Ratio Lower Upper

91 100

126 19.5 0.0 63.4



Abundance Ion 91.00 (90.70 to 91.70): VN058672.D (-3414) (-)



#80

1,2,4-Trimethylbenzene

Concen: 0.220 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. -0.00 min

Lab File: VN058672.D

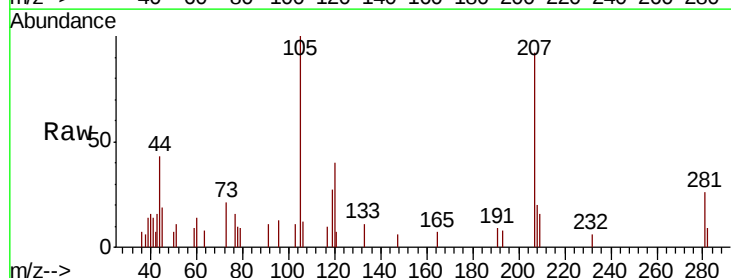
Acq: 10 Oct 2019 18:12

Tgt Ion: 105 Resp: 4135

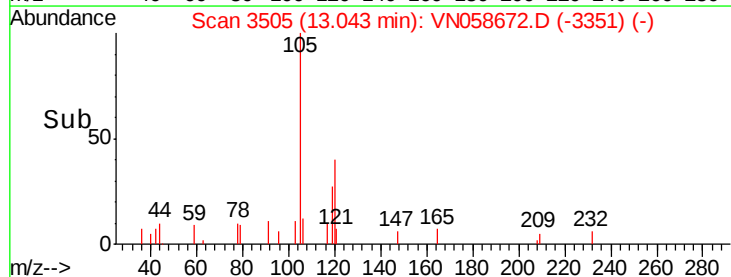
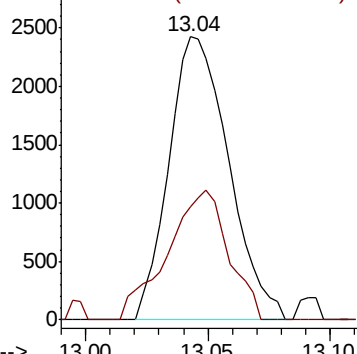
Ion Ratio Lower Upper

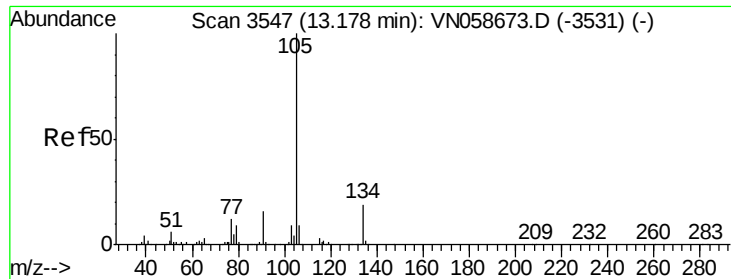
105 100

120 46.5 0.0 89.2



Abundance Ion 105.00 (104.70 to 105.70): VN058672.D (-3494) (-)

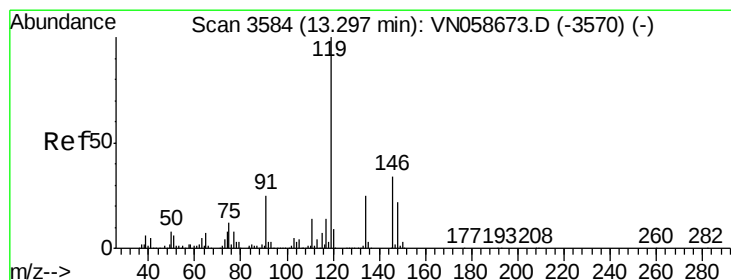
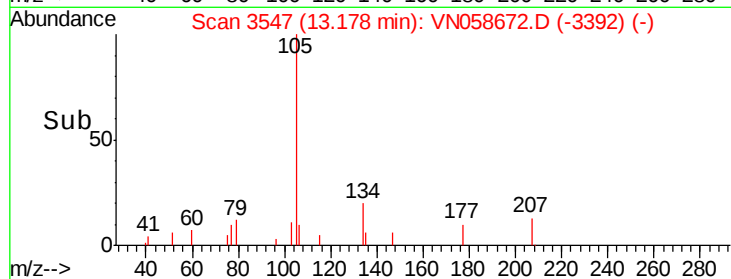
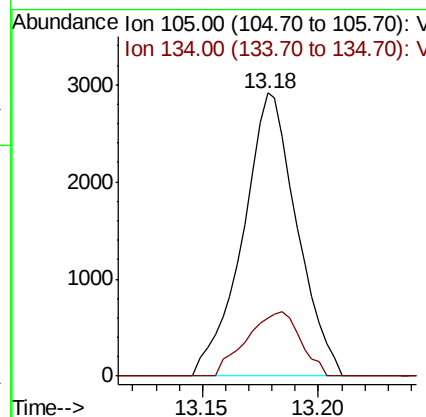
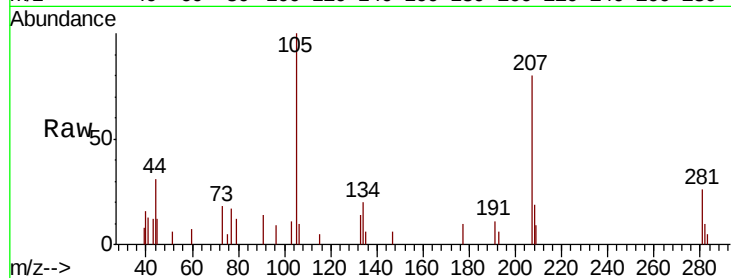




#81
sec-Butylbenzene
Concen: 0.218 ug/l
RT: 13.18 min Scan# 3547
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

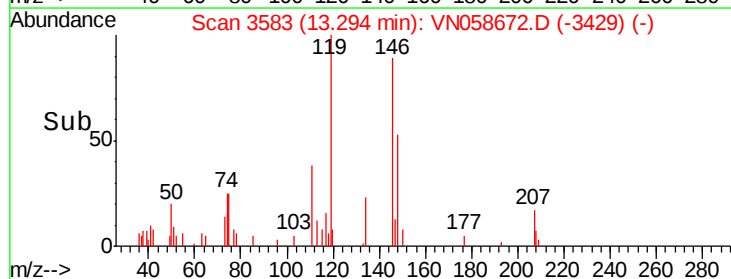
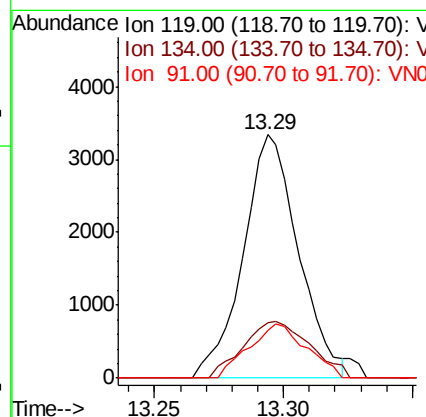
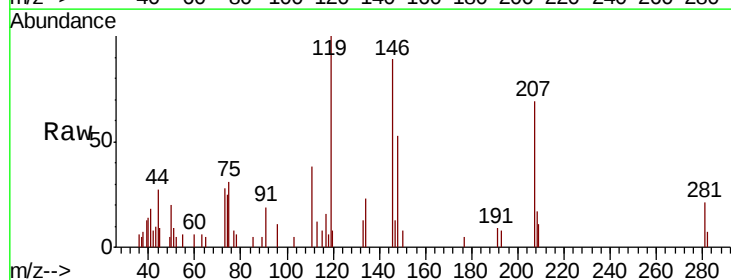
Instrument :
MSVOA_N
ClientSampleId :

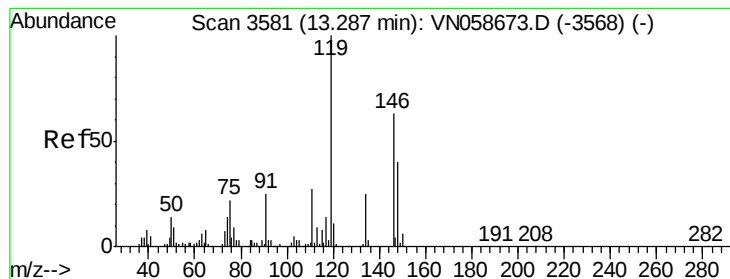
Tot Ion:105 Resp: 4730
Ion Ratio Lower Upper
105 100
134 22.6 0.0 38.0



#82
p-Isopropyltoluene
Concen: 0.255 ug/l
RT: 13.29 min Scan# 3583
Delta R.T. -0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Tgt Ion:119 Resp: 4976
Ion Ratio Lower Upper
119 100
134 28.3 0.0 50.8
91 23.2 0.0 49.4





#83

1,3-Dichlorobenzene

Concen: 0.570 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

ClientSampled :

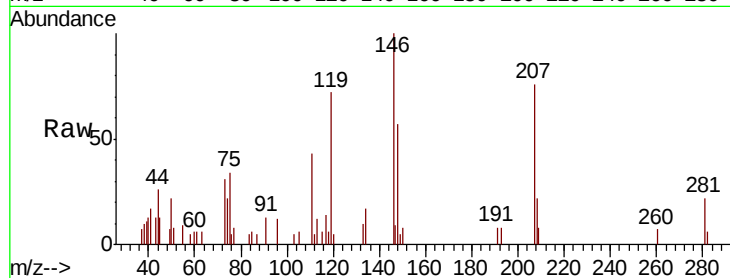
Tot Ion:146 Resp: 5534

Ion Ratio Lower Upper

146 100

111 39.0 21.0 63.0

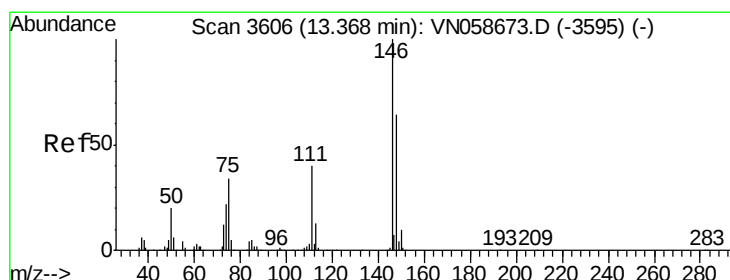
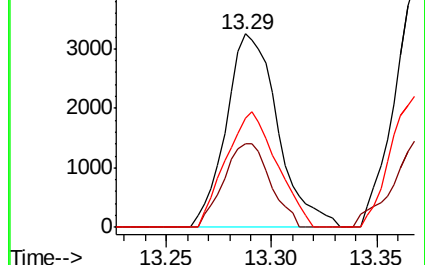
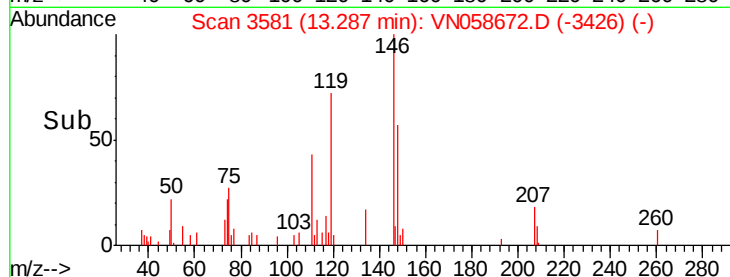
148 58.8 31.7 95.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 0.705 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

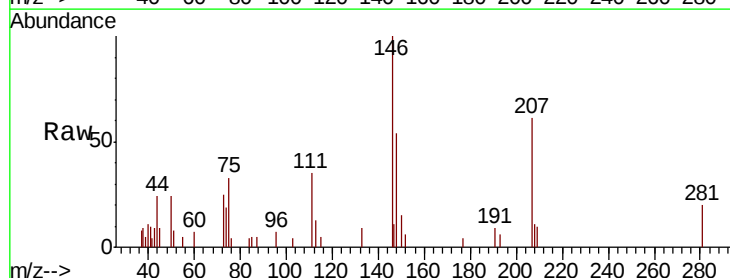
Tgt Ion:146 Resp: 6831

Ion Ratio Lower Upper

146 100

111 38.8 19.8 59.4

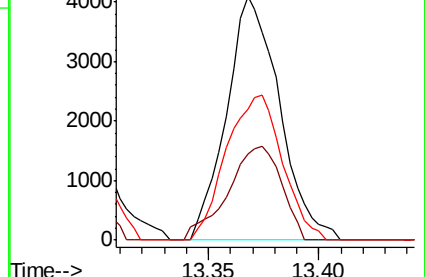
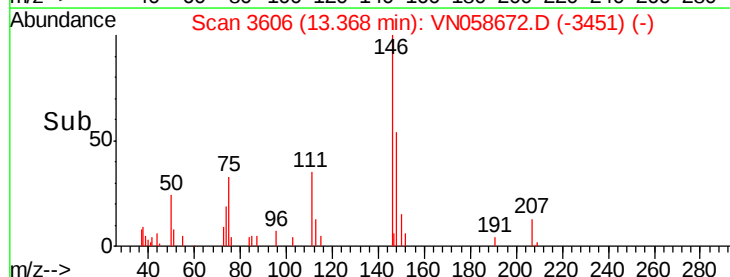
148 62.8 31.6 94.8

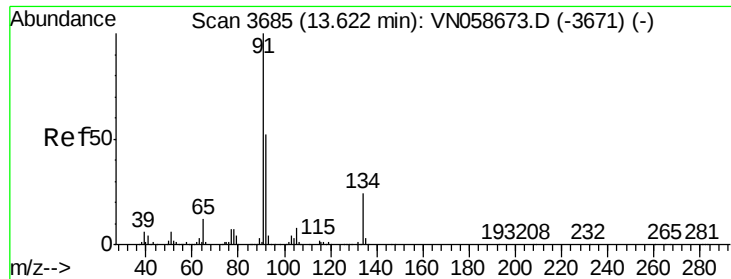


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

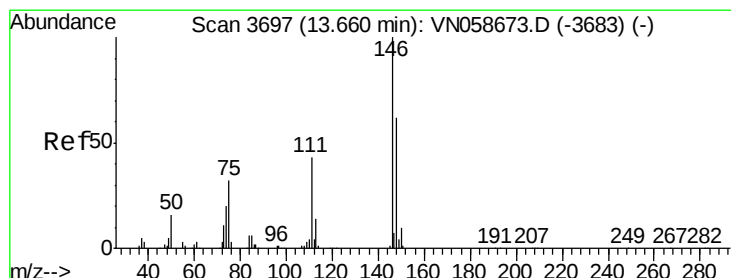
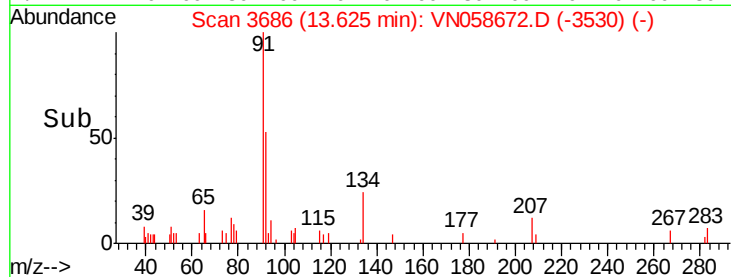
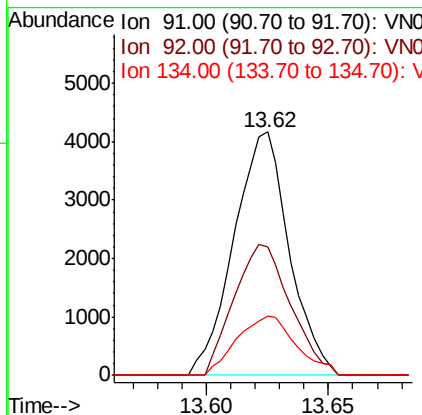
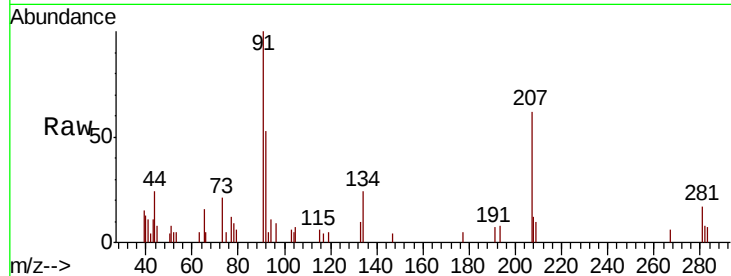




#85
n-Butylbenzene
Concen: 0.366 ug/l
RT: 13.62 min Scan# 3686
Delta R.T. 0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

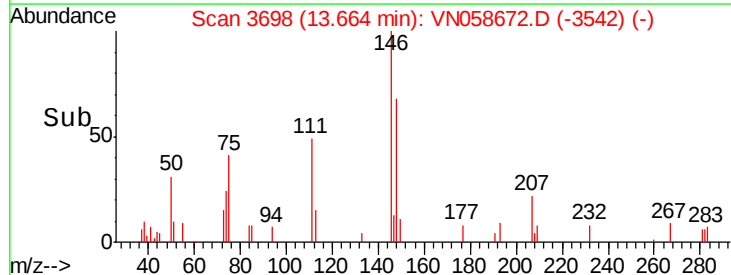
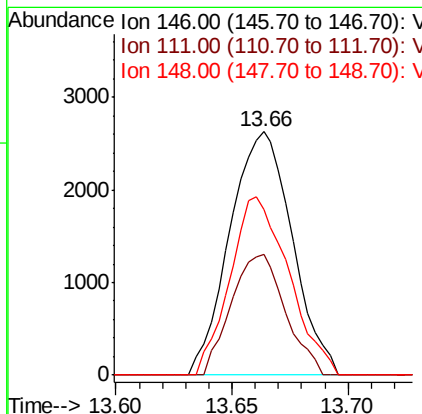
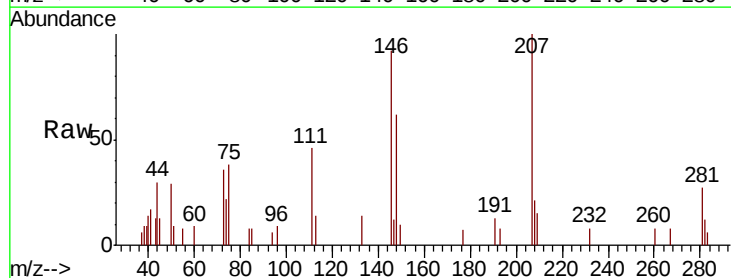
Instrument :
MSVOA_N
ClientSampled :

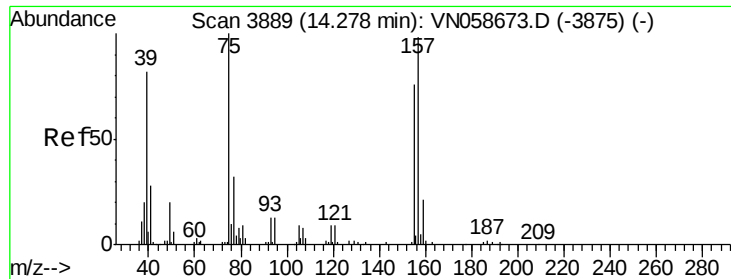
Tot Ion: 91 Resp: 6535
Ion Ratio Lower Upper
91 100
92 55.3 0.0 102.8
134 26.1 0.0 48.6



#87
1,2-Dichlorobenzene
Concen: 0.513 ug/l
RT: 13.66 min Scan# 3698
Delta R.T. 0.00 min
Lab File: VN058672.D
Acq: 10 Oct 2019 18:12

Tgt Ion: 146 Resp: 4913
Ion Ratio Lower Upper
146 100
111 43.0 21.8 65.4
148 68.9 32.1 96.5

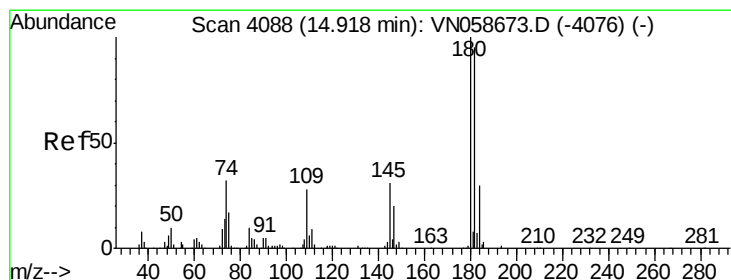
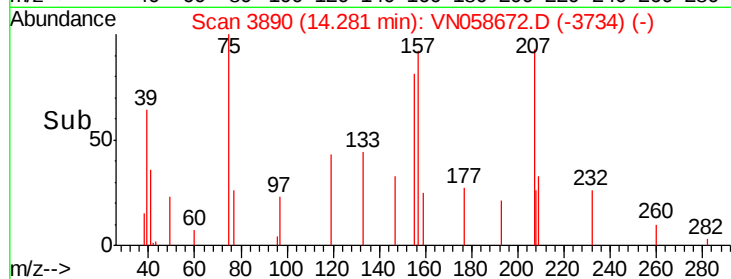
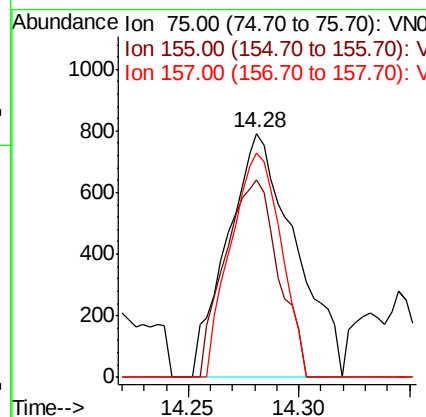
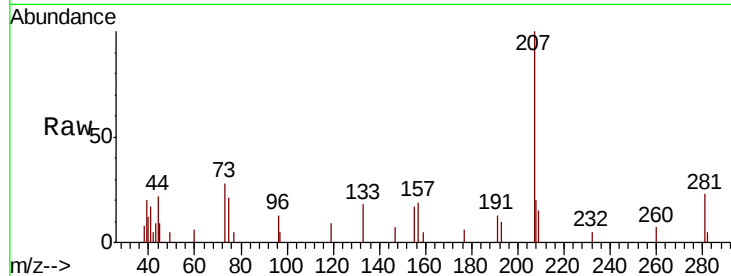




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 1.018 ug/l
 RT: 14.28 min Scan# 3890
 Delta R.T. 0.00 min
 Lab File: VN058672.D
 Acq: 10 Oct 2019 18:12

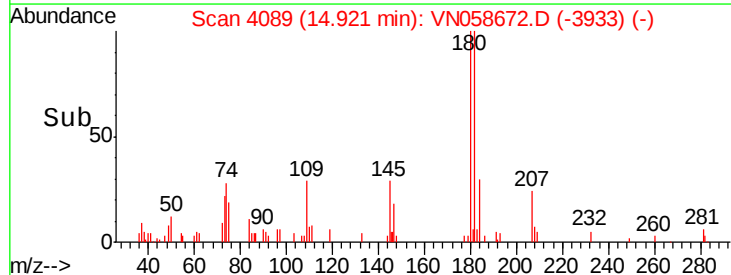
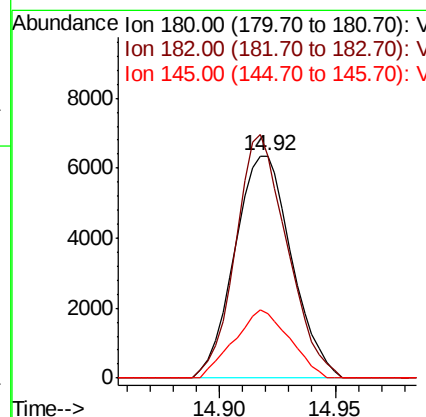
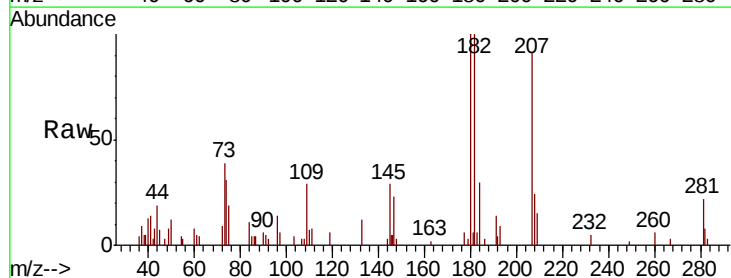
Instrument :
 MSVOA_N
 ClientSampled :

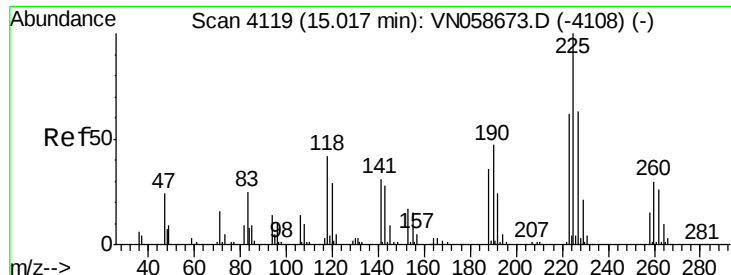
Tot Ion: 75 Resp: 1683
 Ion Ratio Lower Upper
 75 100
 155 64.2 58.3 87.5
 157 68.5 75.0 112.6#



#89
 1,2,4-Trichlorobenzene
 Concen: 1.791 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN058672.D
 Acq: 10 Oct 2019 18:12

Tgt Ion: 180 Resp: 10833
 Ion Ratio Lower Upper
 180 100
 182 99.2 75.3 112.9
 145 29.9 24.8 37.2





#90

Hexachlorobutadiene

Concen: 1.154 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

Instrument :

MSVOA_N

ClientSampleId :

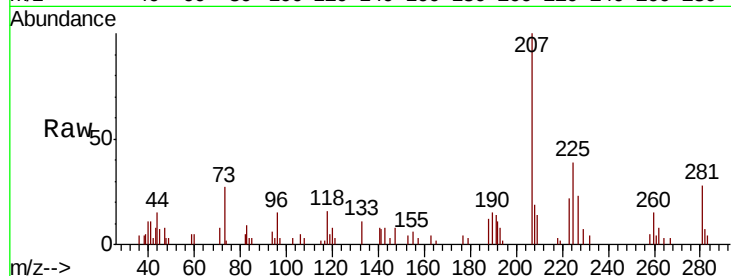
Tot Ion:225 Resp: 3605

Ion Ratio Lower Upper

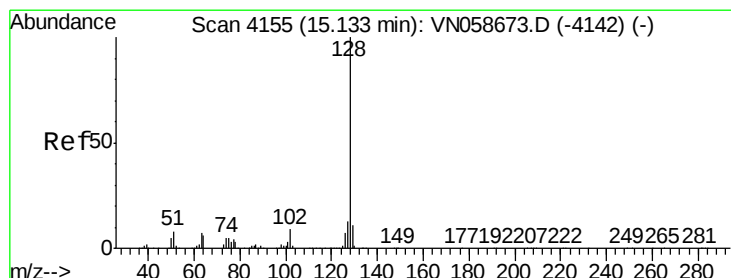
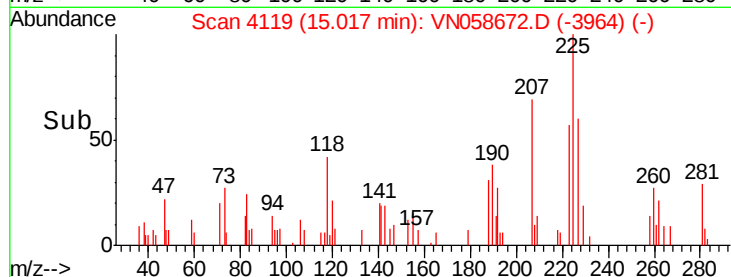
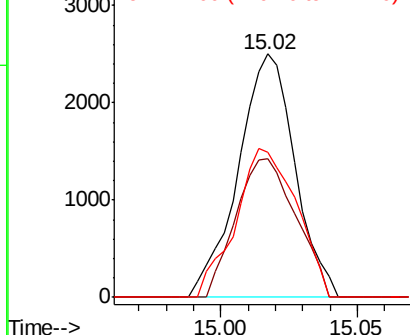
225 100

223 60.5 0.0 126.2

227 65.6 0.0 127.0



Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 2.531 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN058672.D

Acq: 10 Oct 2019 18:12

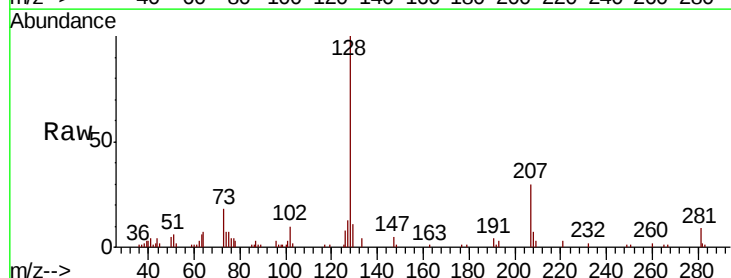
Tgt Ion:128 Resp: 45198

Ion Ratio Lower Upper

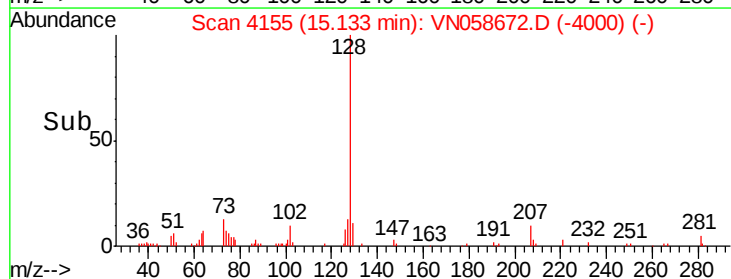
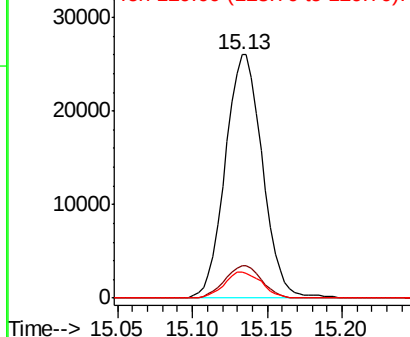
128 100

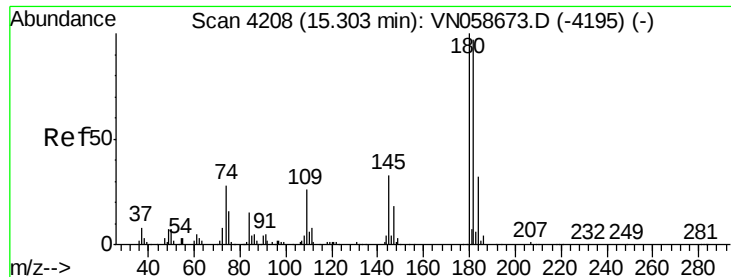
127 13.0 10.2 15.2

129 10.7 8.6 13.0



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





#92
 1,2,3-Trichlorobenzene
 Concen: 2.279 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. -0.00 min
 Lab File: VN058672.D
 Acq: 10 Oct 2019 18:12

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.3	0.0	193.4
145	36.2	0.0	65.8

