

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055777.D
 Acq On : 24 May 2019 1:08
 Operator : JC/SP
 Sample : K2996-03
 Misc : 5.32g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 24 06:55:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	407228	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	554487	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	499659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	302295	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	187514	44.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.18%	
35) Dibromofluoromethane	7.59	113	167714	47.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.68%	
50) Toluene-d8	10.09	98	819963	60.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.96%	
62) 4-Bromofluorobenzene	12.40	95	407856	88.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	176.90%	

Target Compounds

						Qvalue
11) Tert butyl alcohol	4.73	59	3519	4.379	ug/l #	74
13) Acrolein	3.50	56	49302	85.688	ug/l #	1
14) Allyl chloride	4.55	41	3778268	636.370	ug/l #	61
15) Acrylonitrile	5.02	53	187540	101.641	ug/l #	39
16) Acetone	3.74	43	299366	161.937	ug/l #	51
17) Carbon Disulfide	4.00	76	4720	0.480	ug/l	98
18) Methyl Acetate	4.55	43	10088504	2752.675	ug/l #	51
20) Methylene Chloride	4.66	84	400688	100.082	ug/l #	11
23) Vinyl Acetate	5.90	43	107791	10.887	ug/l #	77
24) 1,1-Dichloroethane	5.91	63	35900	5.340	ug/l #	83
25) 2-Butanone	6.80	43	82571	31.982	ug/l #	47
26) 2,2-Dichloropropane	6.70	77	3208	0.551	ug/l #	51
29) Tetrahydrofuran	7.20	42	15820	9.676	ug/l #	32
30) Chloroform	7.32	83	832878	124.215	ug/l #	18
31) Cyclohexane	7.63	56	3611166	572.080	ug/l #	50
36) 1,1-Dichloropropene	7.87	75	1132	0.234	ug/l #	1
37) Ethyl Acetate	6.80	43	82571	17.680	ug/l #	67
38) Carbon Tetrachloride	7.66	117	32099	6.377	ug/l #	15
39) Methylcyclohexane	9.08	83	3751282	626.913	ug/l	92
40) Benzene	8.04	78	422293	28.997	ug/l	99
41) Methacrylonitrile	7.20	41	187422	79.435	ug/l #	42
42) 1,2-Dichloroethane	8.15	62	8952	1.881	ug/l #	1
43) Isopropyl Acetate	8.14	43	1331982	169.748	ug/l #	53
45) 1,2-Dichloropropane	9.14	63	9165	2.415	ug/l #	1
46) Dibromomethane	9.22	93	1157	0.465	ug/l #	1
47) Bromodichloromethane	9.38	83	1013116	198.556	ug/l #	25
48) Methyl methacrylate	9.22	41	184131	50.915	ug/l #	26
51) 4-Methyl-2-Pentanone	10.02	43	477114	102.952	ug/l #	75
52) Toluene	10.16	92	249502	27.241	ug/l	100
53) t-1,3-Dichloropropene	10.39	75	1191	0.219	ug/l #	1
54) cis-1,3-Dichloropropene	9.87	75	2084	0.345	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	1365297	372.091	ug/l #	19
56) Ethyl methacrylate	10.47	69	483933	85.338	ug/l #	5
58) 2-Chloroethyl Vinyl ether	9.67	63	34165	15.765	ug/l #	46

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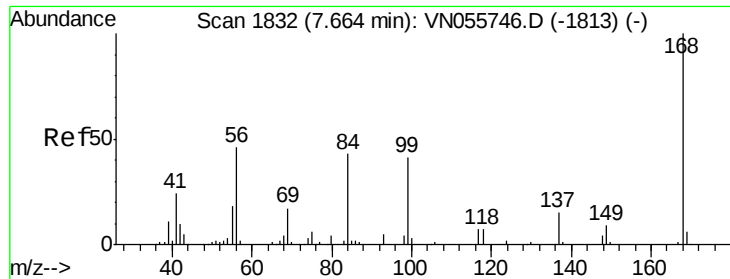
Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 24 06:55:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

59) 2-Hexanone	10.72	43	1093209	332.520	ug/l #	29
60) Dibromochloromethane	11.13	129	2705	0.633	ug/l	79
61) 1,2-Dibromoethane	10.98	107	8635	2.269	ug/l #	1
65) Chlorobenzene	11.54	112	22272	2.227	ug/l #	42
68) m/p-Xylenes	11.51	106	7794313	1149.390	ug/l #	1
69) o-Xylene	11.95	106	261526	38.872	ug/l	96
70) Styrene	11.95	104	14188	1.302	ug/l #	1
73) Isopropylbenzene	12.25	105	11229012	548.804	ug/l	99
74) N-amyl acetate	12.04	43	406534	49.647	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	12.54	83	43192	3.716	ug/l #	25
76) 1,2,3-Trichloropropane	12.59	75	66403	10.254	ug/l #	100
77) Bromobenzene	12.53	156	207077	32.102	ug/l #	1
78) n-propylbenzene	12.59	91	12620753	480.359	ug/l	98
79) 2-Chlorotoluene	12.69	91	2832116	208.185	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.89	105	10378824	601.658	ug/l	75
81) trans-1,4-Dichloro-2-buten	12.25	75	111236	49.510	ug/l #	65
82) 4-Chlorotoluene	12.73	91	2351049	152.229	ug/l #	40
83) tert-Butylbenzene	13.05	119	8383530	567.135	ug/l #	65
84) 1,2,4-Trimethylbenzene	12.89	105	10378824	600.112	ug/l	79
85) sec-Butylbenzene	13.17	105	1301403	64.643	ug/l #	56
86) p-Isopropyltoluene	13.23	119	1509291	71.894	ug/l	96
89) n-Butylbenzene	13.62	91	1892565	117.659	ug/l #	62
90) Hexachloroethane	13.89	117	1001599	250.661	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.25	75	49672	37.084	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	1005	3.796	ug/l #	15
94) Hexachlorobutadiene	15.01	225	205	Below Cal	#	50
95) Naphthalene	15.13	128	8918649	637.782	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

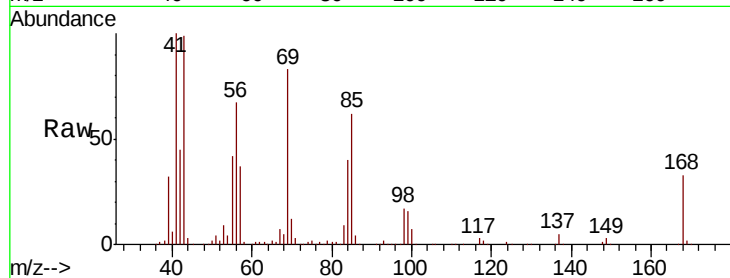
ClientSampleId :

Tot Ion:168 Resp: 407228

Ion Ratio Lower Upper

168 100

99 47.7 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN055746.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055746.D (-1813) (-)

7.66

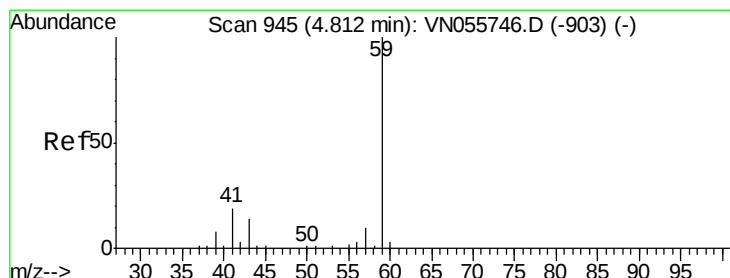
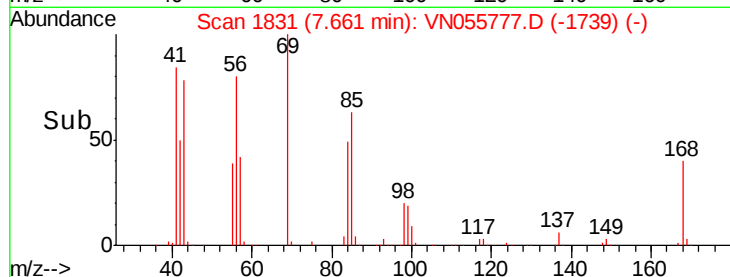
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.379 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.09 min

Lab File: VN055777.D

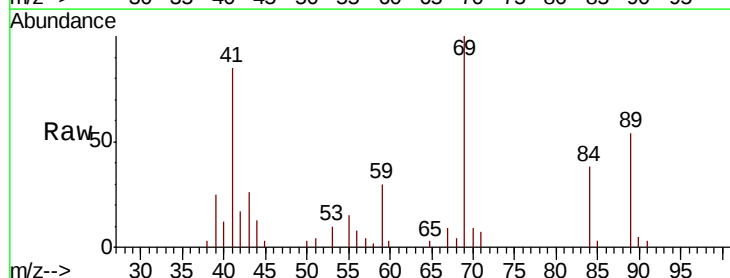
Acq: 24 May 2019 1:08

Tgt Ion: 59 Resp: 3519

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055746.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN055746.D (-903) (-)

4.73

2000

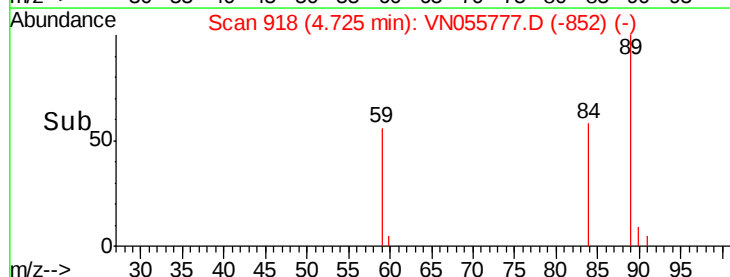
1500

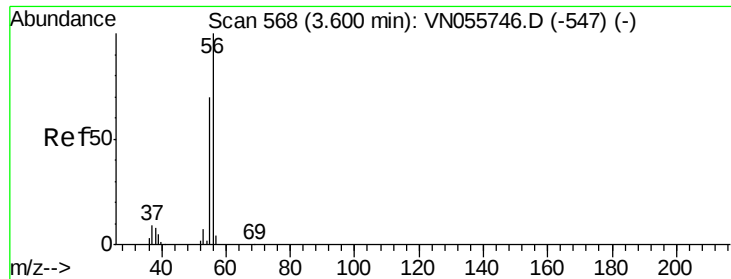
1000

500

0

Time-->





#13

Acrolein

Concen: 85.688 ug/l

RT: 3.50 min Scan# 538

Delta R.T. -0.10 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

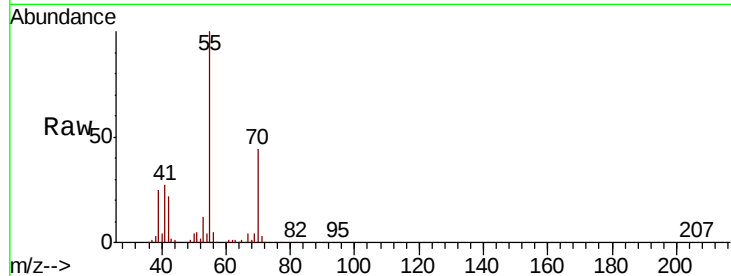
ClientSampled :

Tot Ion: 56 Resp: 49302

Ion Ratio Lower Upper

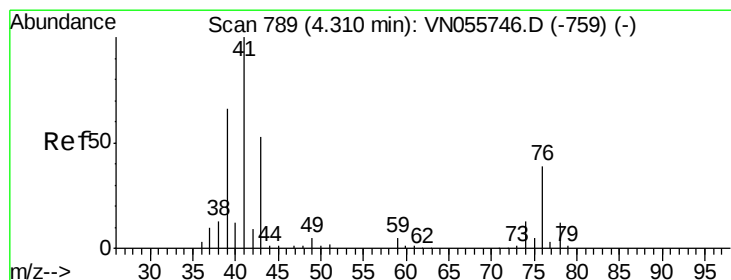
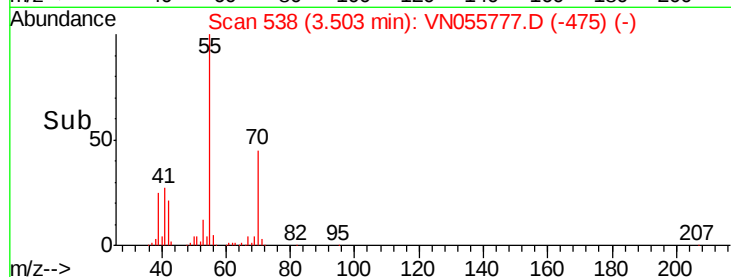
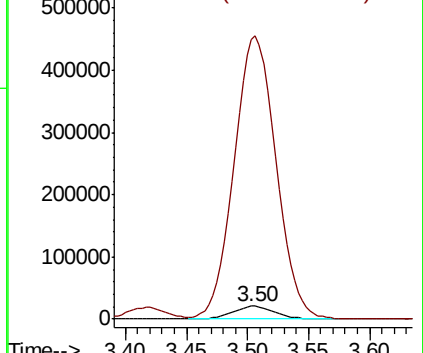
56 100

55 2198.5 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO



#14

Allyl chloride

Concen: 636.370 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.24 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

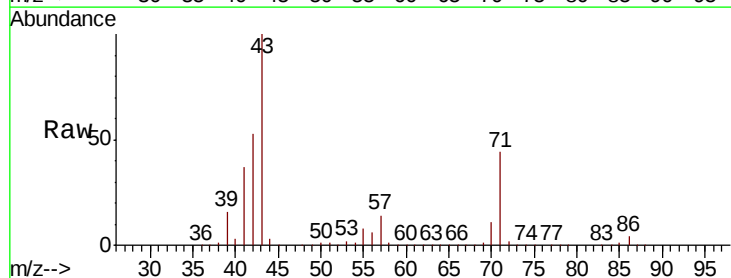
Tgt Ion: 41 Resp: 3778268

Ion Ratio Lower Upper

41 100

39 41.9 50.0 75.0#

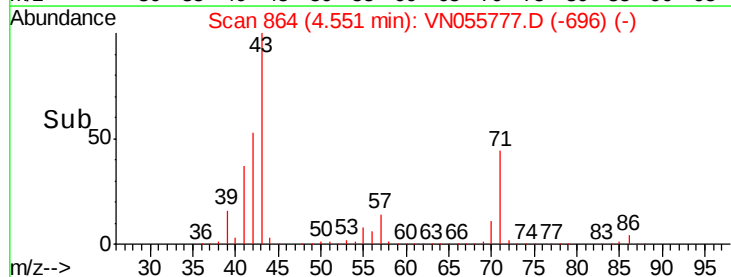
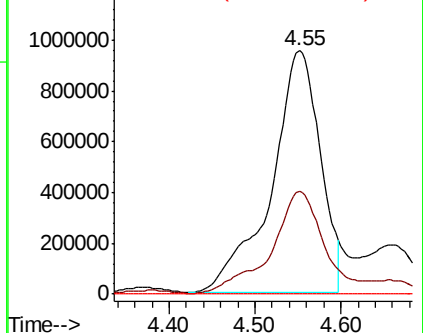
76 0.0 28.2 42.2#

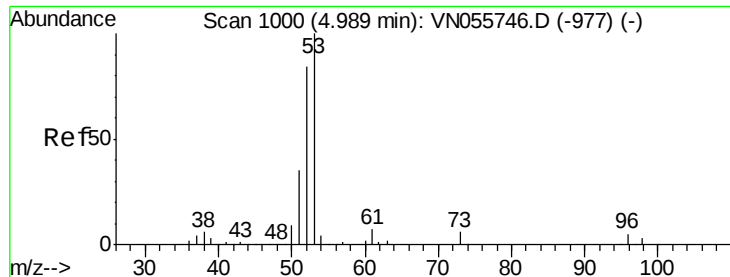


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO





#15

Acrylonitrile

Concen: 101.641 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.03 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

ClientSampleId :

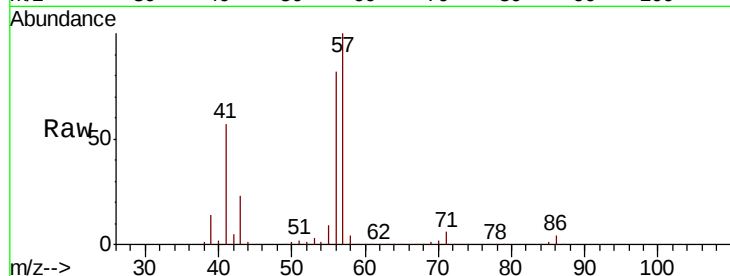
Tot Ion: 53 Resp: 187540

Ion Ratio Lower Upper

53 100

52 18.8 65.8 98.8#

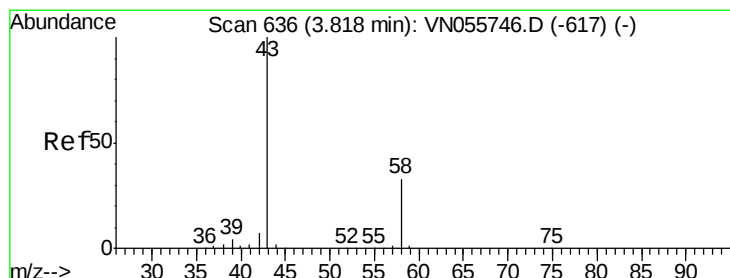
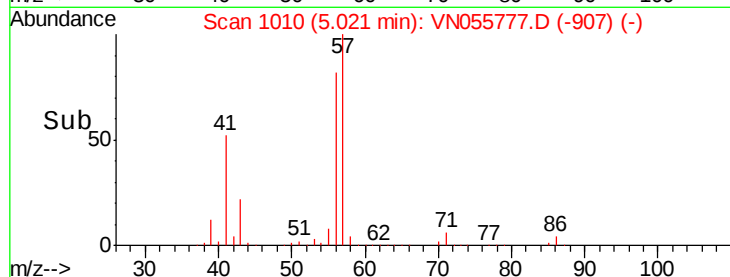
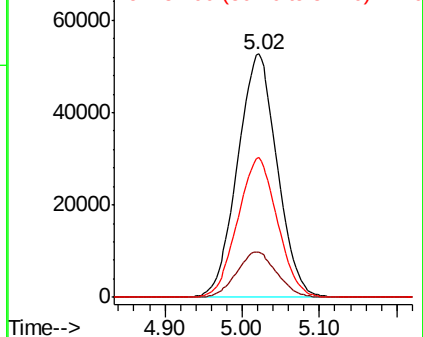
51 57.6 28.2 42.4#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 161.937 ug/l

RT: 3.74 min Scan# 613

Delta R.T. -0.07 min

Lab File: VN055777.D

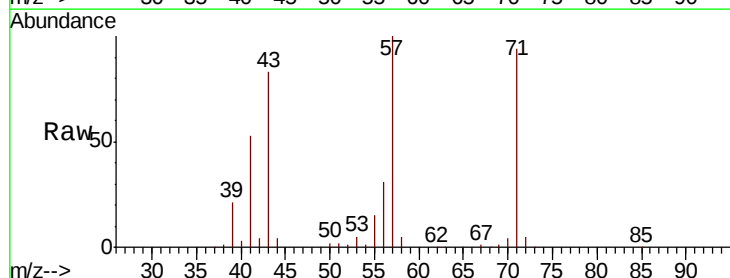
Acq: 24 May 2019 1:08

Tgt Ion: 43 Resp: 299366

Ion Ratio Lower Upper

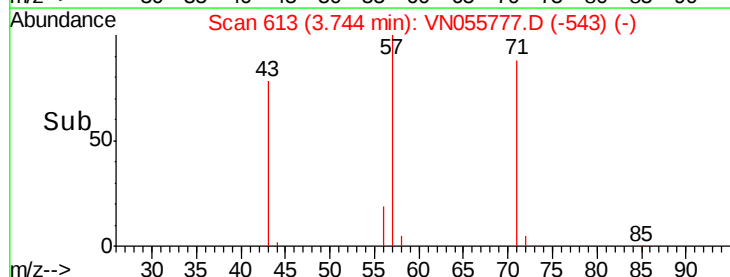
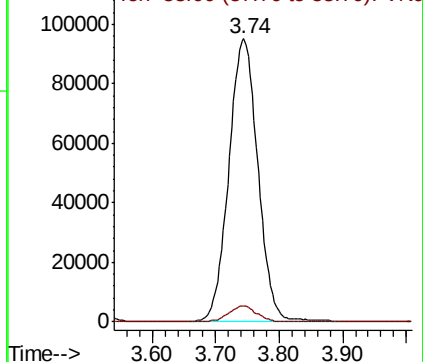
43 100

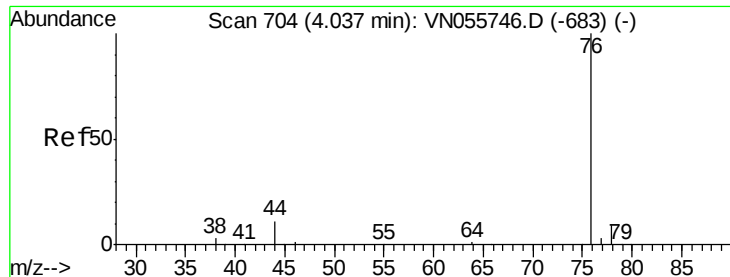
58 5.6 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

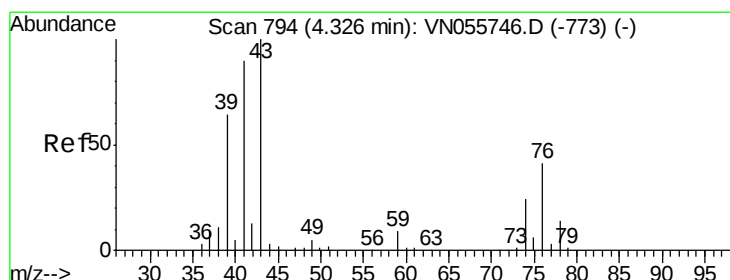
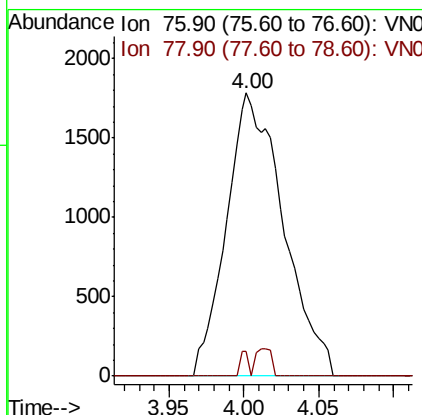
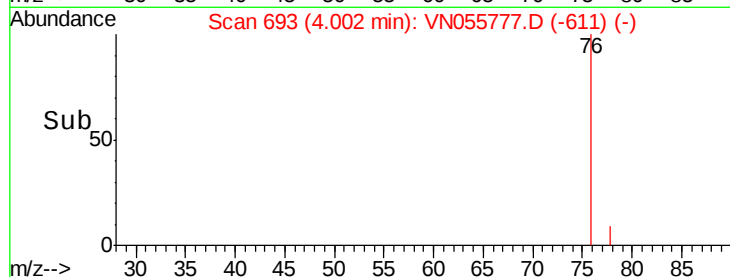
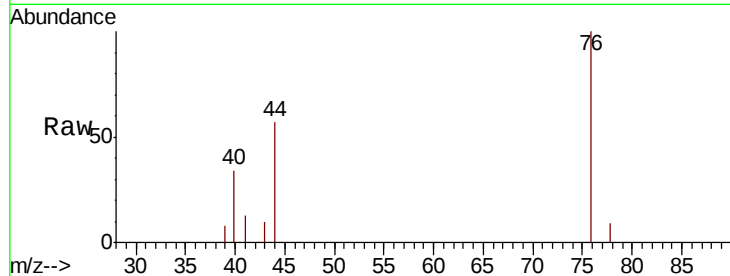




#17
Carbon Disulfide
Concen: 0.480 ug/l
RT: 4.00 min Scan# 693
Delta R.T. -0.04 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

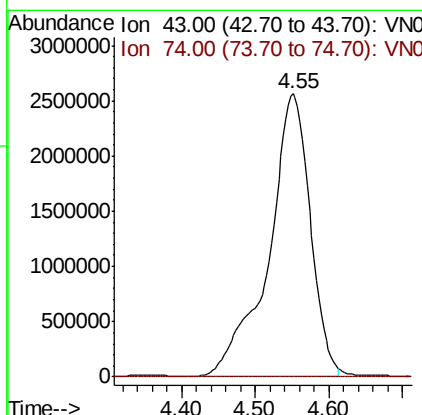
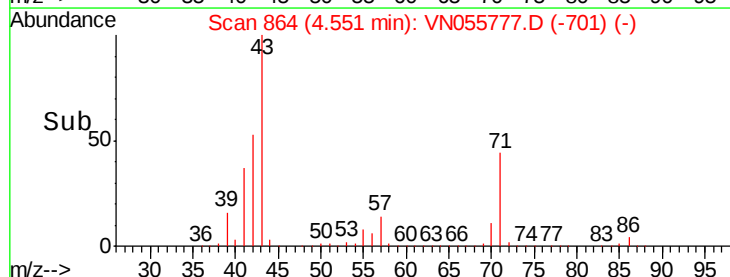
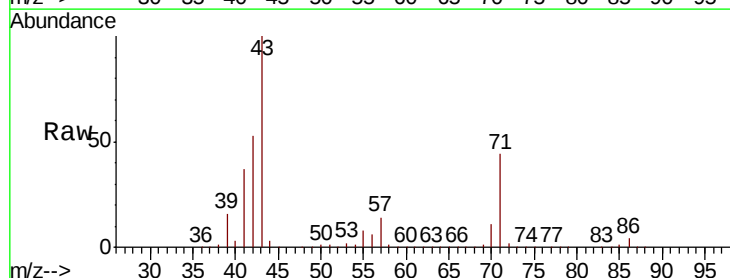
Instrument :
MSVOA_N
ClientSampleId :

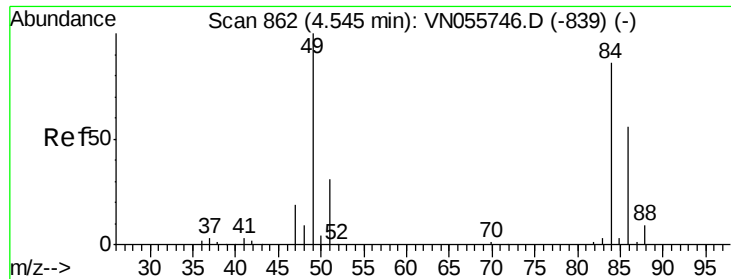
Tot Ion: 76 Resp: 4720
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.2



#18
Methyl Acetate
Concen: 2752.675 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.23 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion: 43 Resp:10088504
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#

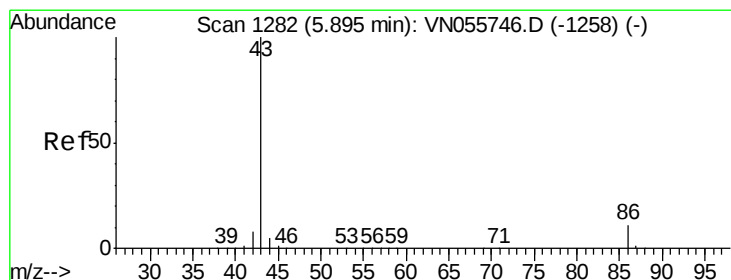
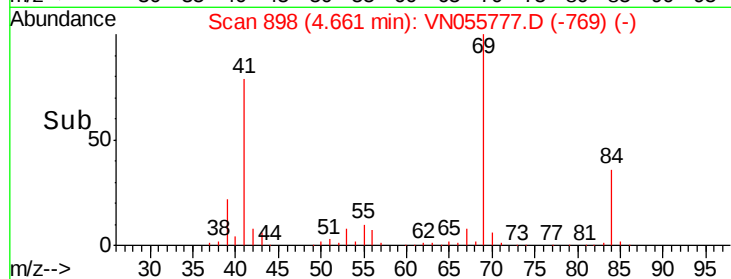
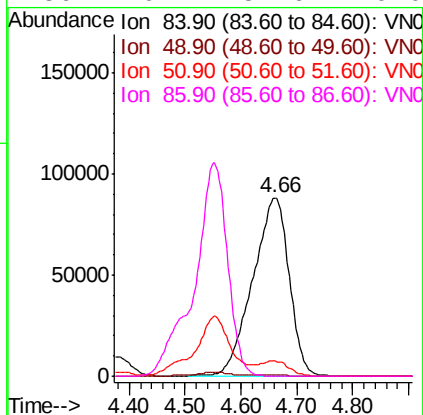
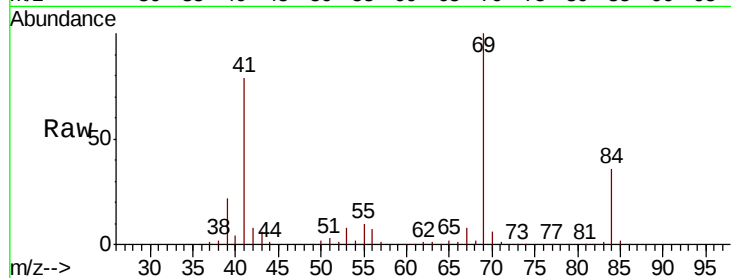




#20
Methvlene Chloride
Concen: 100.082 ug/l
RT: 4.66 min Scan# 898
Delta R.T. 0.12 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

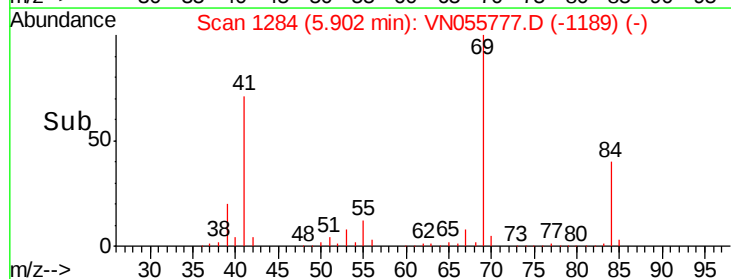
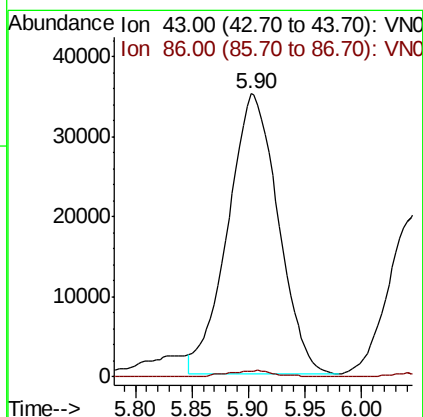
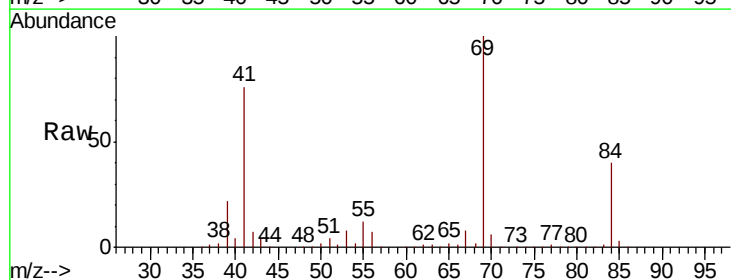
Instrument :
MSVOA_N
ClientSampleId :

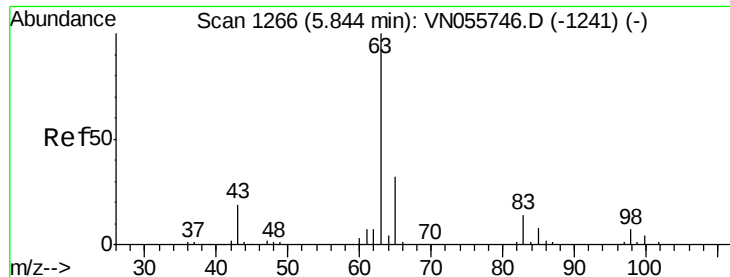
Tot Ion: 84 Resp: 400688
Ion Ratio Lower Upper
84 100
49 0.7 93.5 140.3#
51 8.3 28.6 43.0#
86 0.4 52.6 79.0#



#23
Vinyl Acetate
Concen: 10.887 ug/l
RT: 5.90 min Scan# 1284
Delta R.T. 0.01 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion: 43 Resp: 107791
Ion Ratio Lower Upper
43 100
86 2.1 8.6 13.0#





#24

1,1-Dichloroethane

Concen: 5.340 ug/l

RT: 5.91 min Scan# 1285

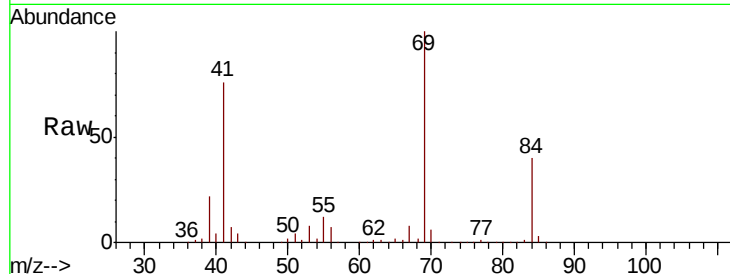
Delta R.T. 0.06 min

Lab File: VN055777.D

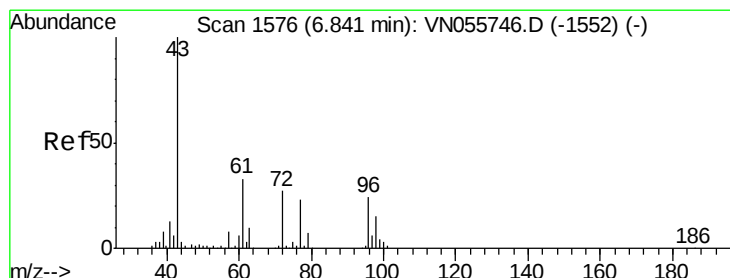
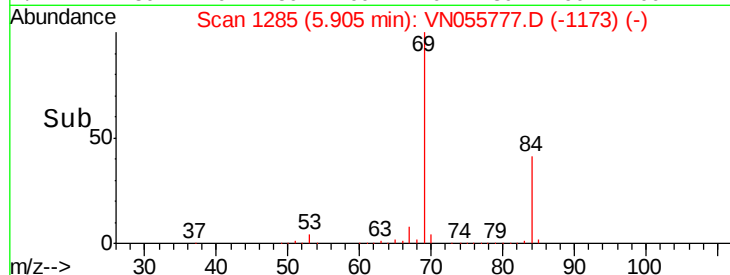
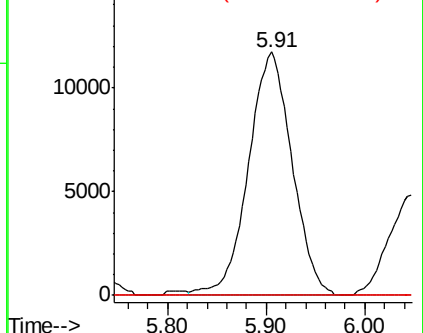
Acq: 24 May 2019 1:08

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	63	Resp:	35900
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.4	10.1#
100	0.0	2.2	6.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#25

2-Butanone

Concen: 31.982 ug/l

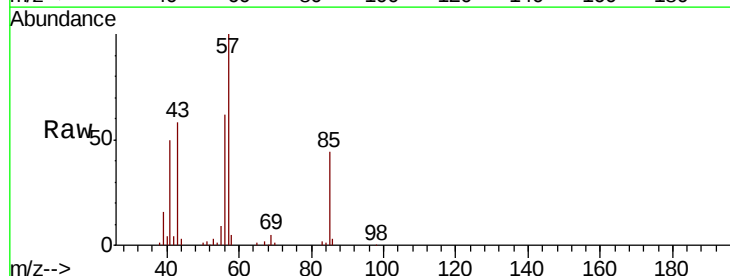
RT: 6.80 min Scan# 1564

Delta R.T. -0.04 min

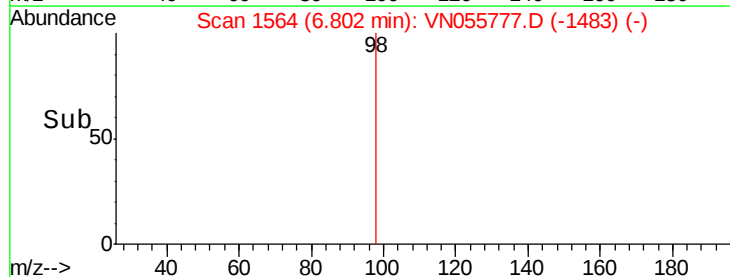
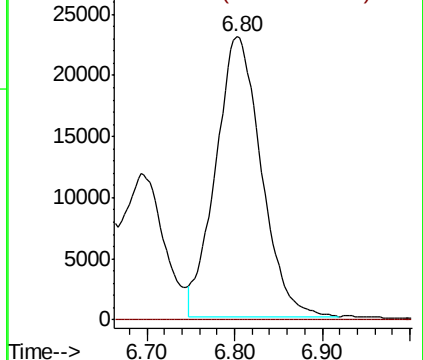
Lab File: VN055777.D

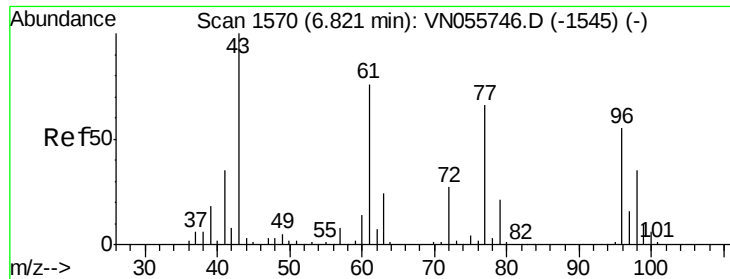
Acq: 24 May 2019 1:08

Tgt Ion:	43	Resp:	82571
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.9	32.9#



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





#26

2,2-Dichloropropane

Concen: 0.551 ug/l

RT: 6.70 min Scan# 1533

Delta R.T. -0.12 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

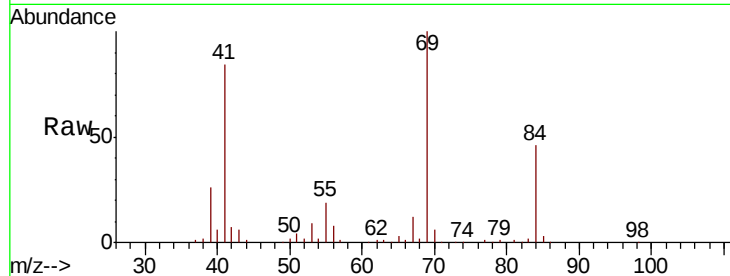
ClientSampled :

Tot Ion: 77 Resp: 3208

Ion Ratio Lower Upper

77 100

97 0.0 12.2 36.6#



Abundance Ion 76.90 (76.60 to 77.60): VNC

Ion 96.90 (96.60 to 97.60): VNC

5000

4000

3000

2000

1000

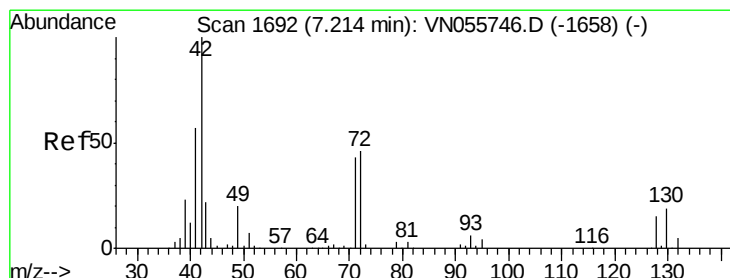
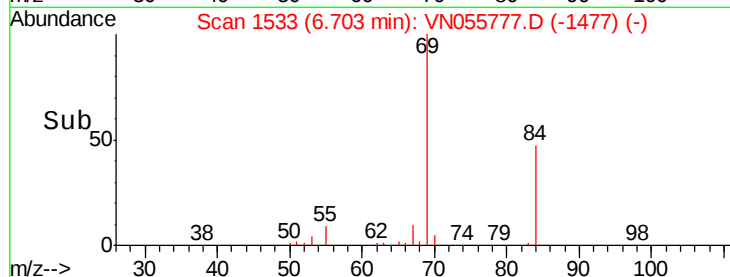
0

6.65

6.70

6.75

Time-->



#29

Tetrahydrofuran

Concen: 9.676 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.02 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

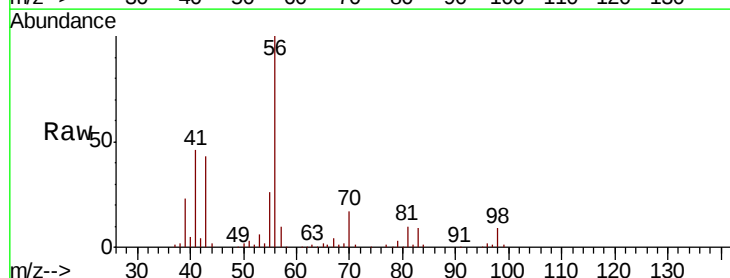
Tgt Ion: 42 Resp: 15820

Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

71 0.0 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VNC

Ion 72.00 (71.70 to 72.70): VNC

Ion 71.00 (70.70 to 71.70): VNC

15000

10000

5000

0

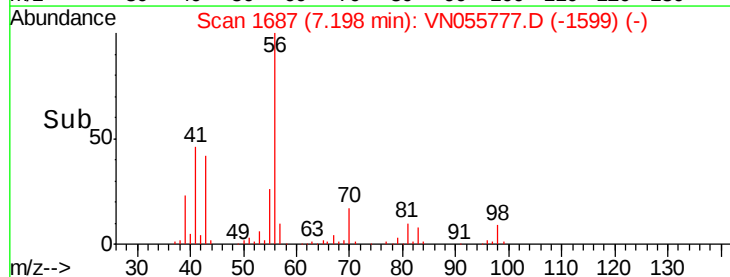
7.10

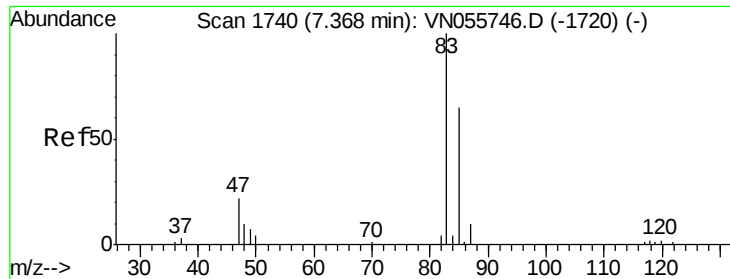
7.15

7.20

7.25

Time-->

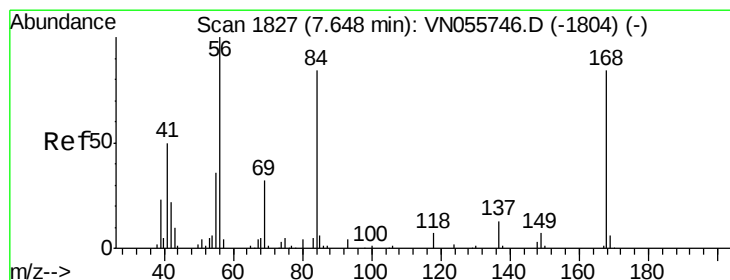
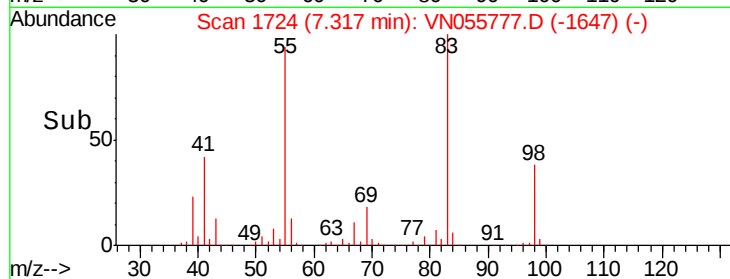
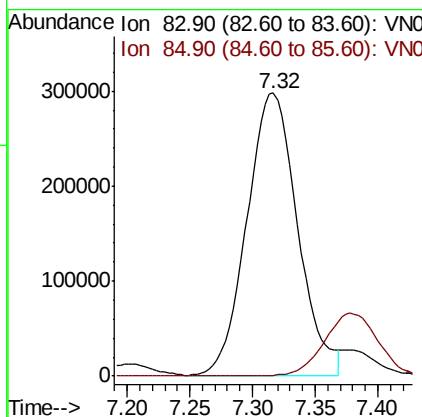
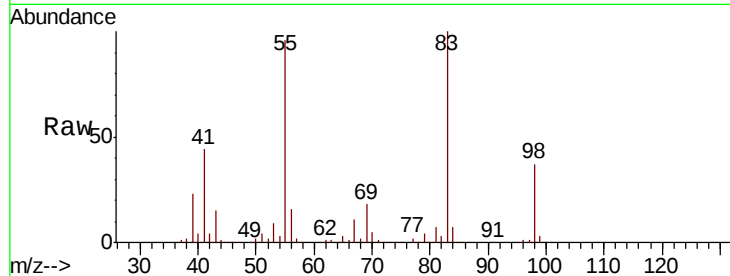




#30
Chloroform
Concen: 124.215 ug/l
RT: 7.32 min Scan# 1724
Delta R.T. -0.05 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

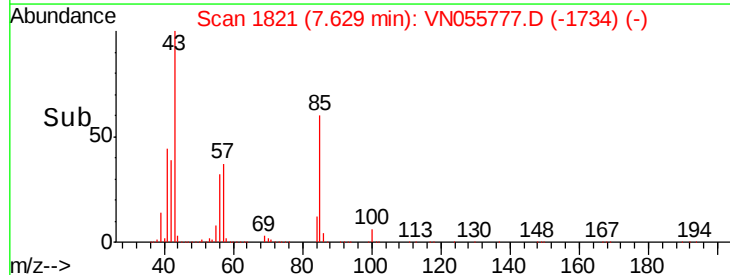
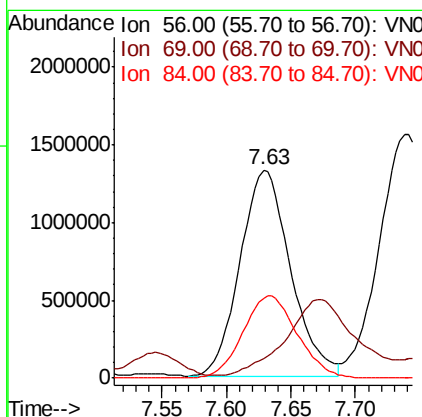
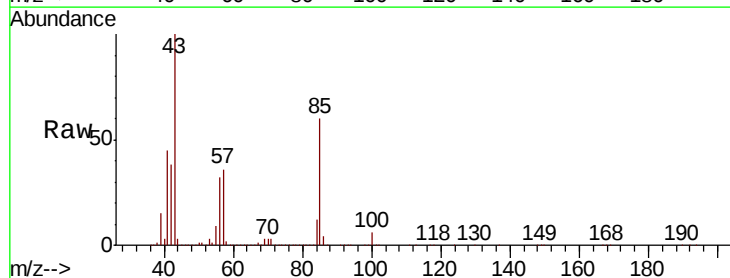
Instrument :
MSVOA_N
ClientSampleId :

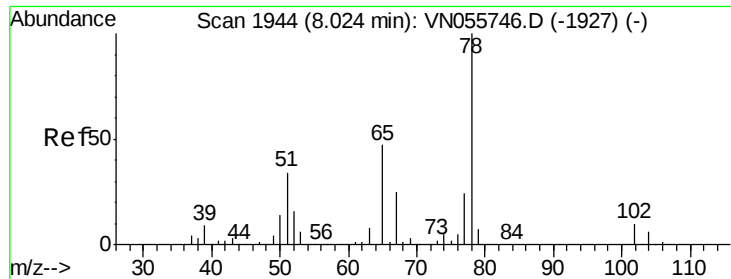
Tot Ion: 83 Resp: 832878
Ion Ratio Lower Upper
83 100
85 0.3 51.8 77.8#



#31
Cyclohexane
Concen: 572.080 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. -0.02 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion: 56 Resp: 3611166
Ion Ratio Lower Upper
56 100
69 5.0 25.6 38.4#
84 38.8 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 44.588 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

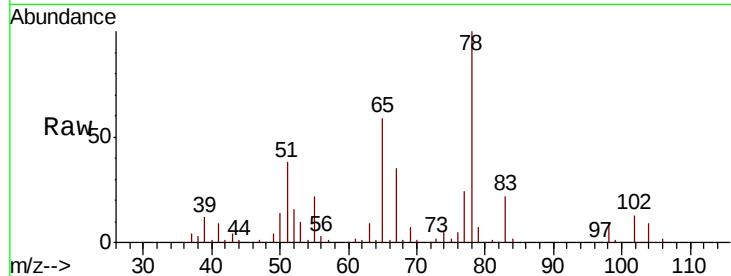
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 187514

Ion Ratio Lower Upper

65 100

67 70.3 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN055777.D (-1851) (-)

Ion 66.90 (66.60 to 67.60): VN055777.D (-1851) (-)

150000

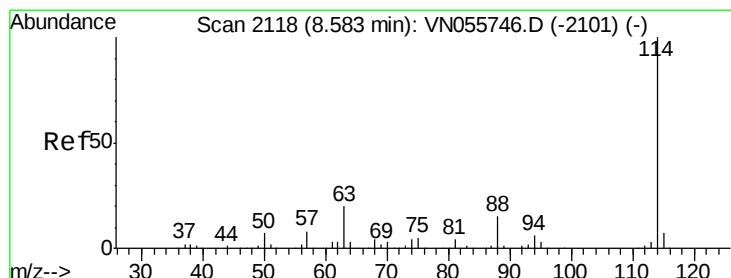
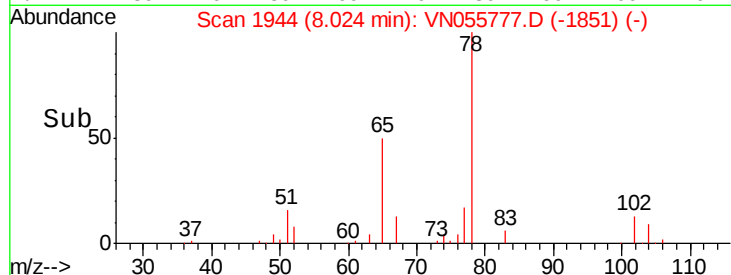
100000

50000

0

8.02

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

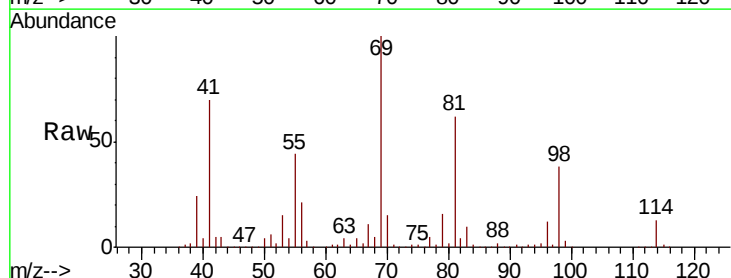
Tgt Ion: 114 Resp: 554487

Ion Ratio Lower Upper

114 100

63 31.7 0.0 39.2

88 15.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN055777.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN055777.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN055777.D (-2025) (-)

300000

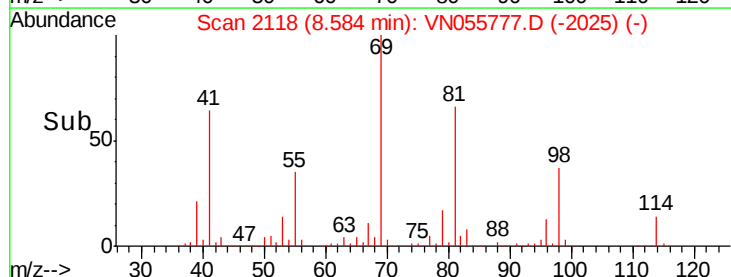
200000

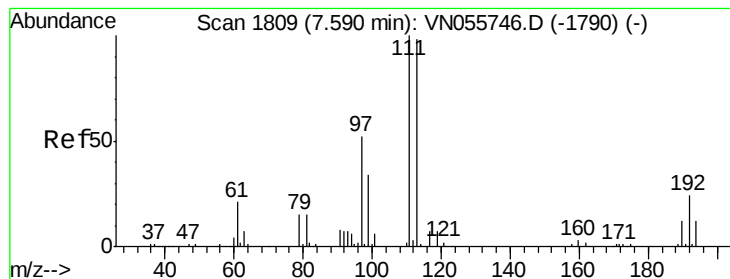
100000

0

8.58

Time--> 8.50 8.60 8.70





#35

Dibromofluoromethane

Concen: 47.841 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :
MSVOA_N
ClientSampled :

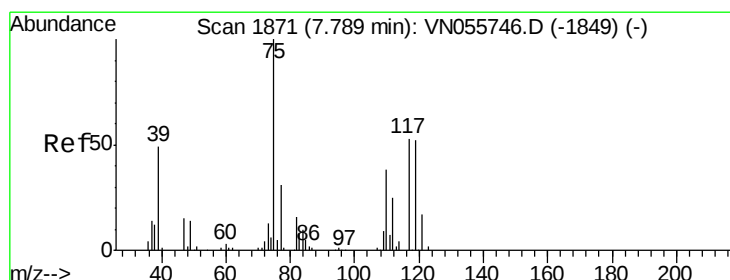
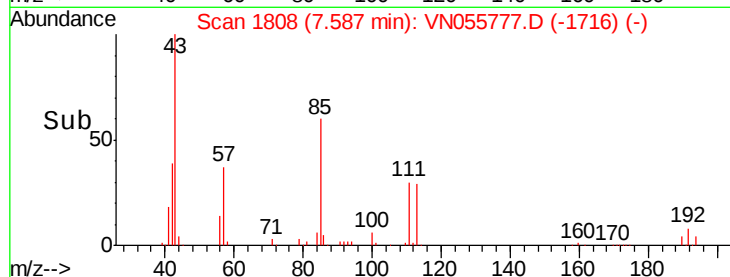
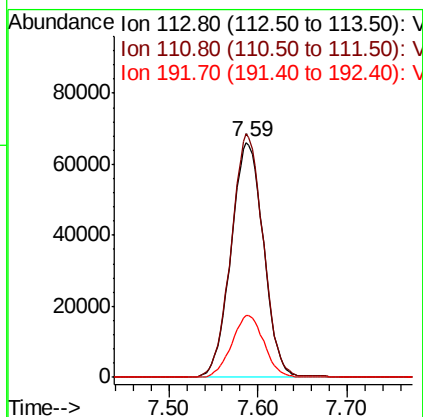
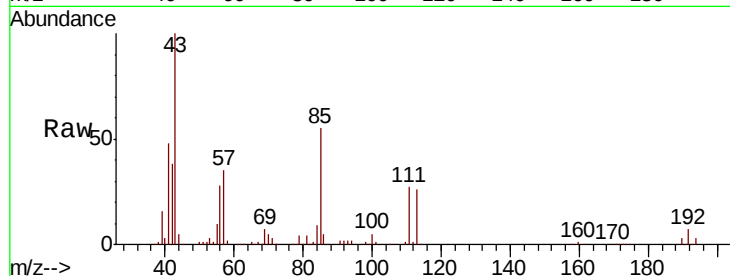
Tot Ion:113 Resp: 167714

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

192 26.0 19.5 29.3



#36

1,1-Dichloropropene

Concen: 0.234 ug/l

RT: 7.87 min Scan# 1896

Delta R.T. 0.08 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

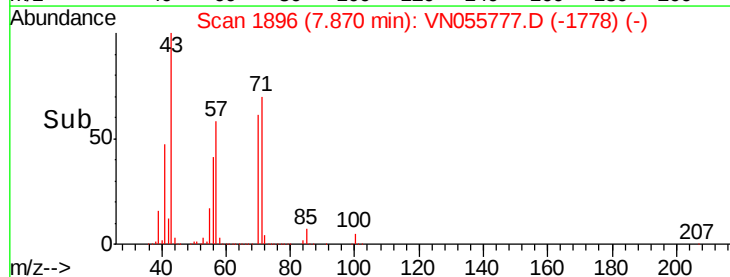
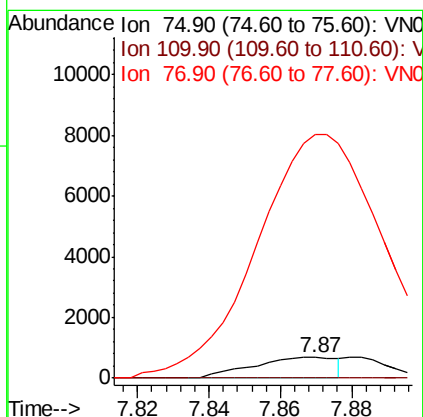
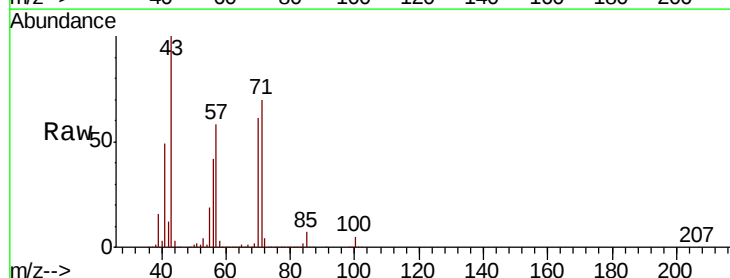
Tgt Ion: 75 Resp: 1132

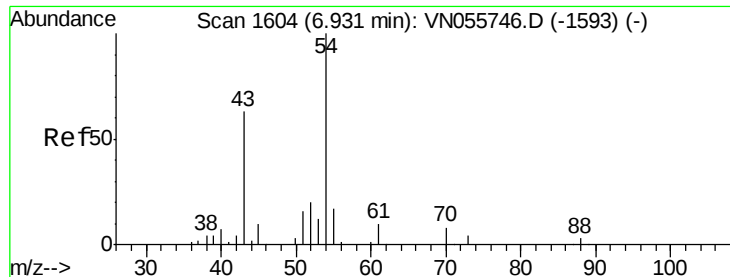
Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

77 1798.0 25.1 37.7#

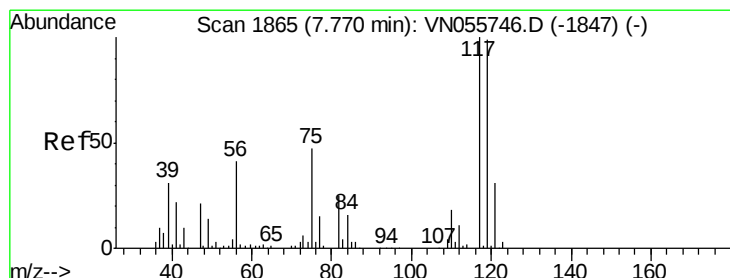
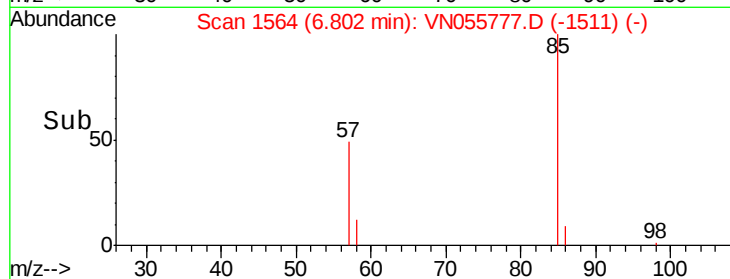
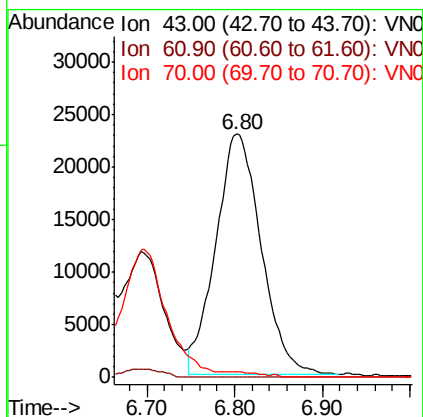
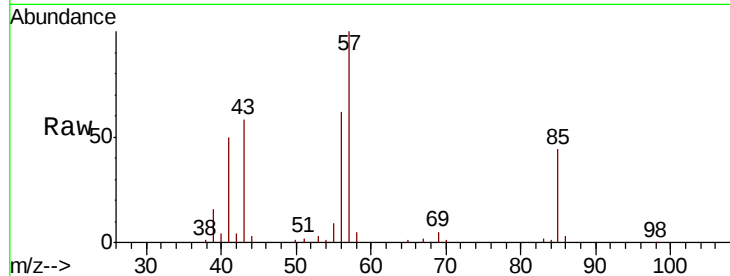




#37
Ethyl Acetate
Concen: 17.680 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.13 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

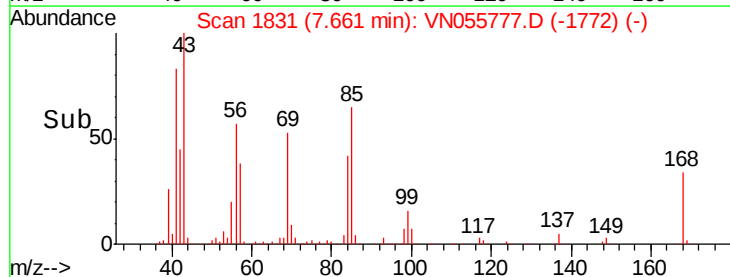
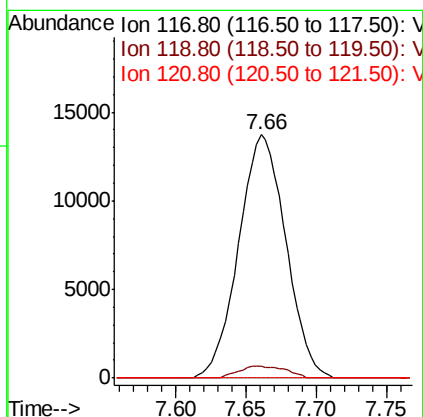
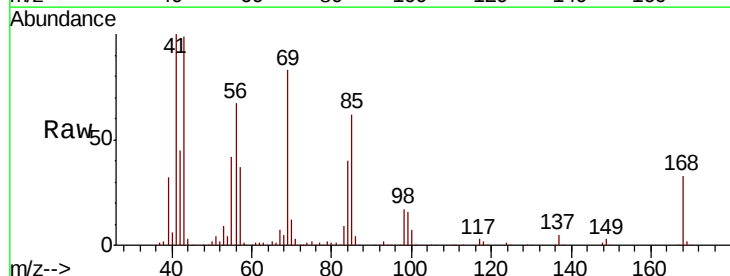
Instrument :
MSVOA_N
ClientSampled :

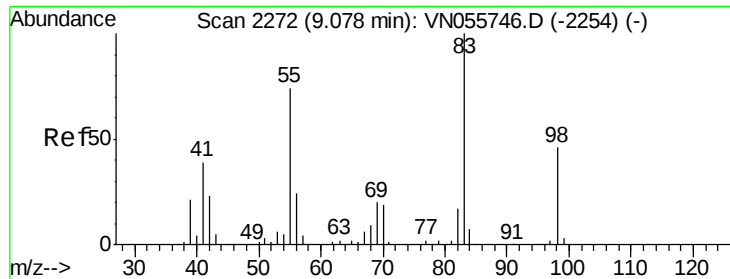
Tot Ion: 43 Resp: 82571
Ion Ratio Lower Upper
43 100
61 0.0 12.2 18.2#
70 0.0 8.9 13.3#



#38
Carbon Tetrachloride
Concen: 6.377 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion: 117 Resp: 32099
Ion Ratio Lower Upper
117 100
119 4.9 79.0 118.6#
121 0.0 24.7 37.1#

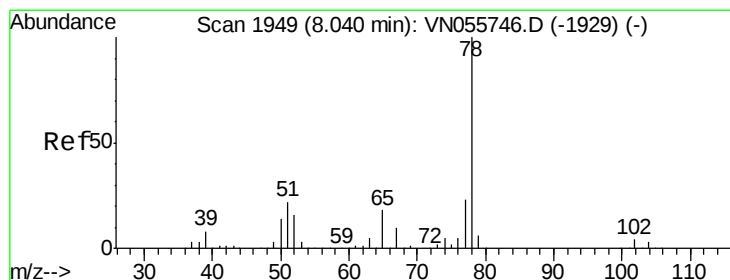
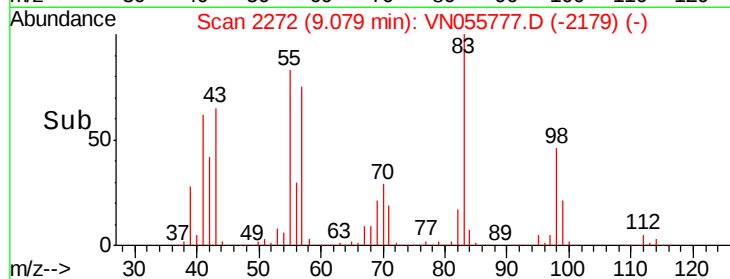
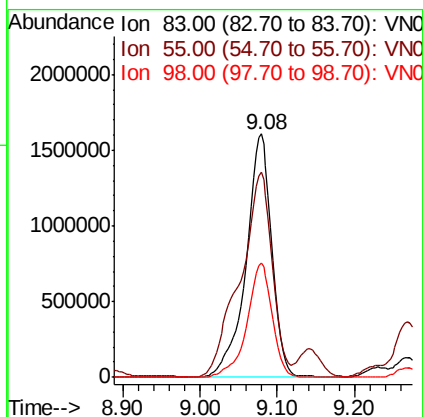
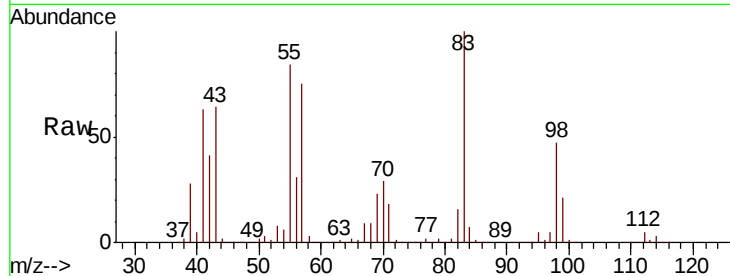




#39
Methvlcvclohexane
Concen: 626.913 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

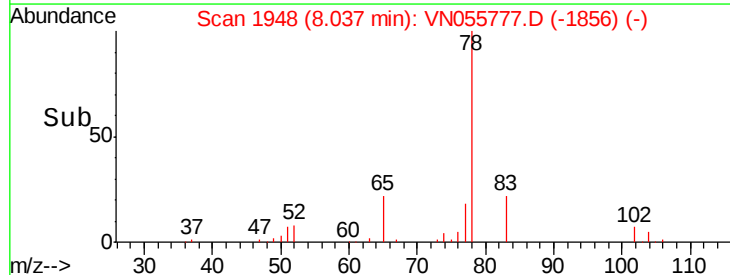
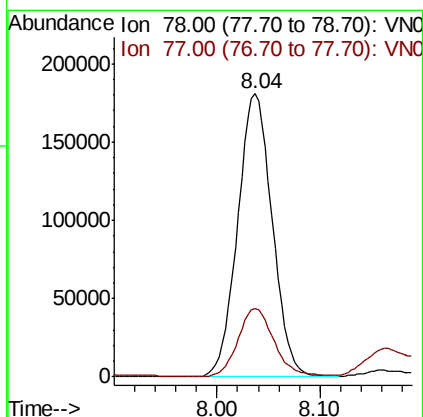
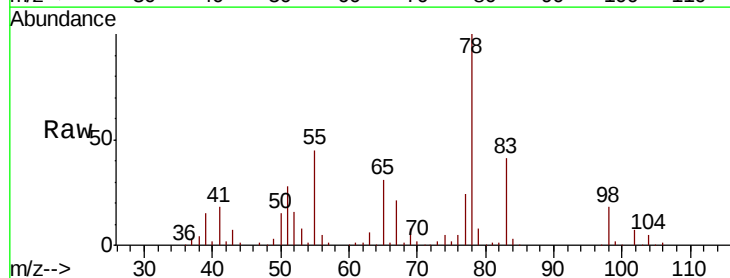
Instrument :
MSVOA_N
ClientSampleId :

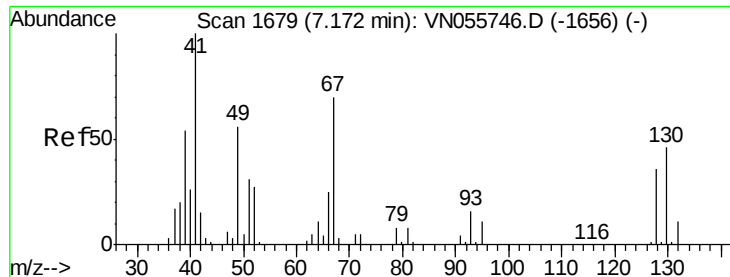
Tot Ion: 83 Resp: 3751282
Ion Ratio Lower Upper
83 100
55 83.9 59.3 88.9
98 47.1 36.6 54.8



#40
Benzene
Concen: 28.997 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion: 78 Resp: 422293
Ion Ratio Lower Upper
78 100
77 24.2 18.8 28.2

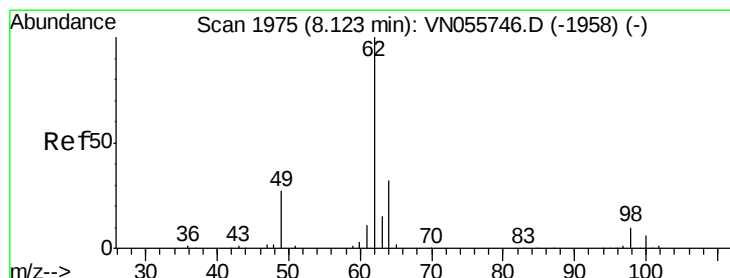
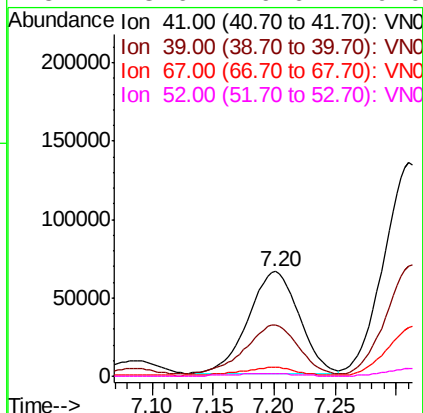
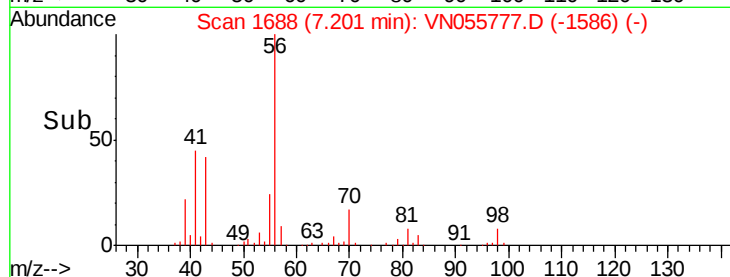
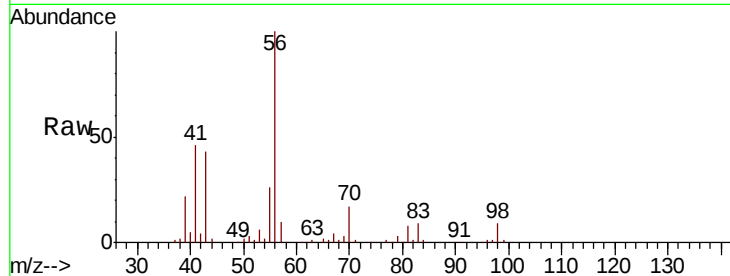




#41
Methacrylonitrile
Concen: 79.435 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.03 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

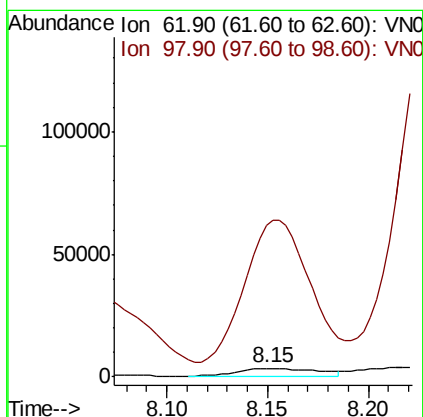
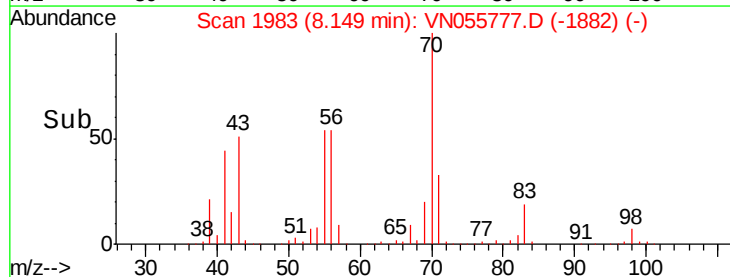
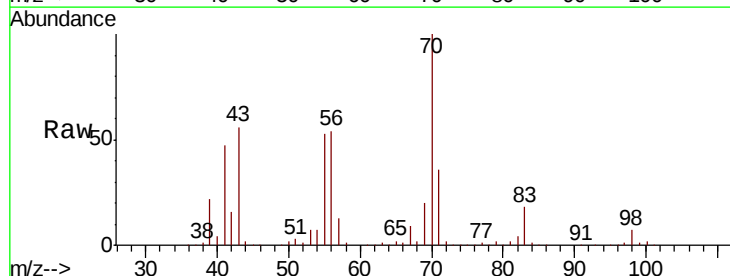
Instrument :
MSVOA_N
ClientSampled :

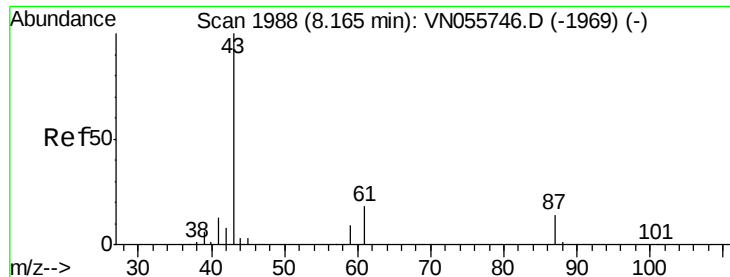
Tot Ion: 41 Resp: 187422
Ion Ratio Lower Upper
41 100
39 50.4 45.6 68.4
67 0.0 67.7 101.5#
52 3.6 26.6 40.0#



#42
1,2-Dichloroethane
Concen: 1.881 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.03 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion: 62 Resp: 8952
Ion Ratio Lower Upper
62 100
98 1449.9 0.0 20.2#



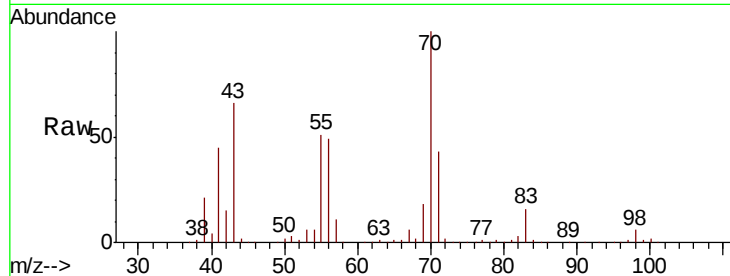


#43

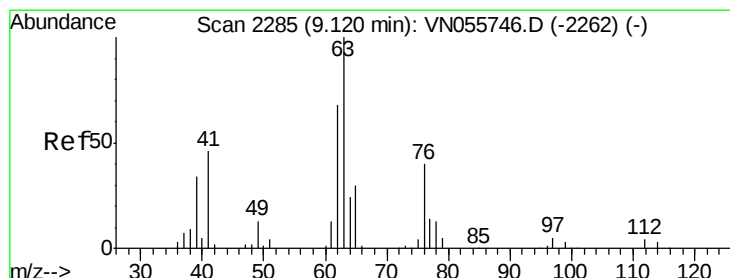
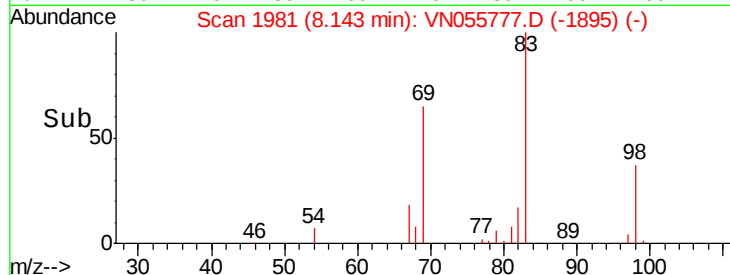
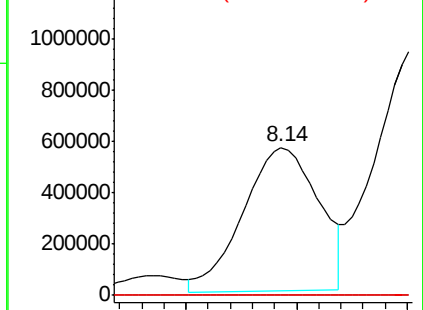
Isopropyl Acetate
 Concen: 169.748 ug/l
 RT: 8.14 min Scan# 1981
 Delta R.T. -0.02 min
 Lab File: VN055777.D
 Acq: 24 May 2019 1:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 43 Resp: 1331982
 Ion Ratio Lower Upper
 43 100
 61 0.3 22.2 33.4#
 87 0.0 11.4 17.2#



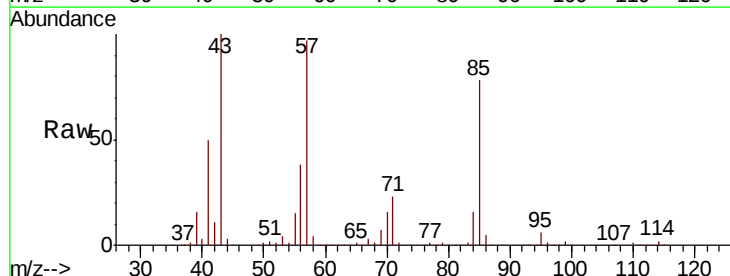
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



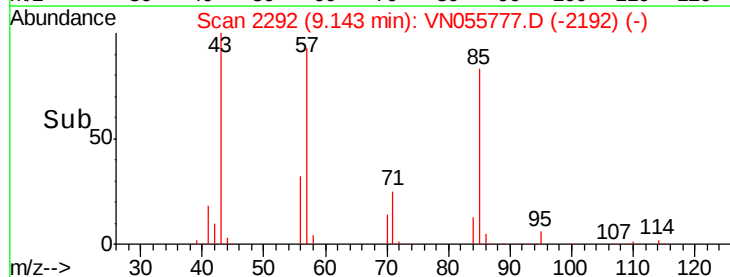
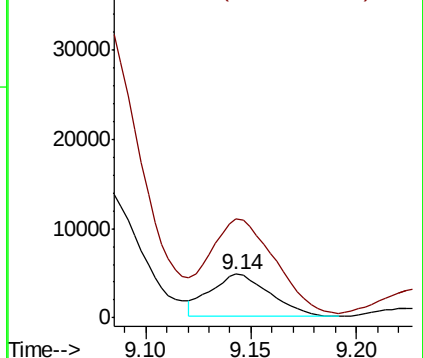
#45

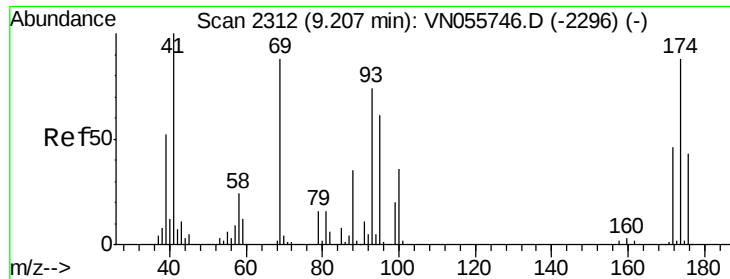
1,2-Dichloropropane
 Concen: 2.415 ug/l
 RT: 9.14 min Scan# 2292
 Delta R.T. 0.02 min
 Lab File: VN055777.D
 Acq: 24 May 2019 1:08

Tgt Ion: 63 Resp: 9165
 Ion Ratio Lower Upper
 63 100
 65 223.8 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 64.90 (64.60 to 65.60): VN0

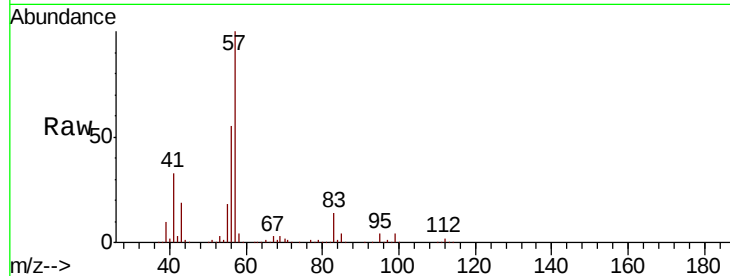




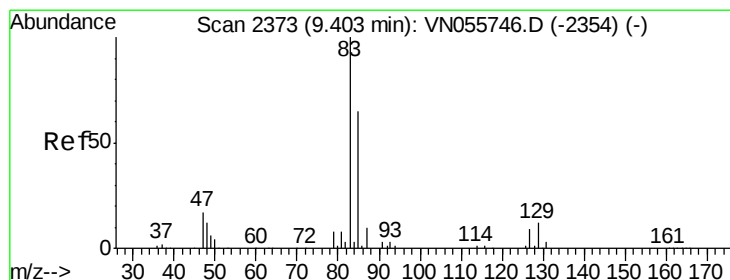
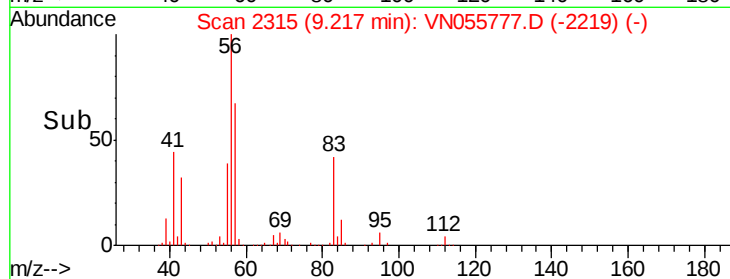
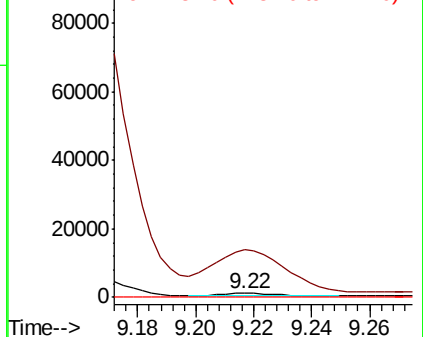
#46
Dibromomethane
Concen: 0.465 ug/l
RT: 9.22 min Scan# 2315
Delta R.T. 0.01 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 93 Resp: 1157
Ion Ratio Lower Upper
93 100
95 1901.9 66.7 100.1#
174 0.0 96.4 144.6#

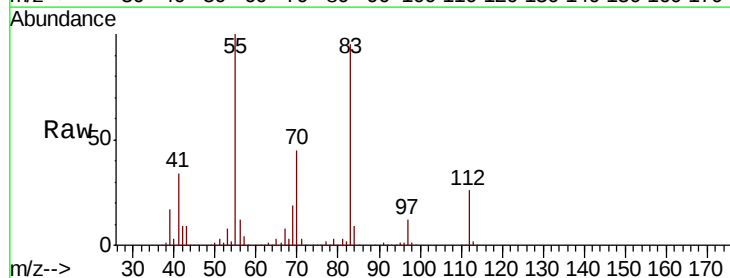


Abundance Ion 92.80 (92.50 to 93.50): VN0
Ion 94.80 (94.50 to 95.50): VN0
Ion 173.70 (173.40 to 174.40): V

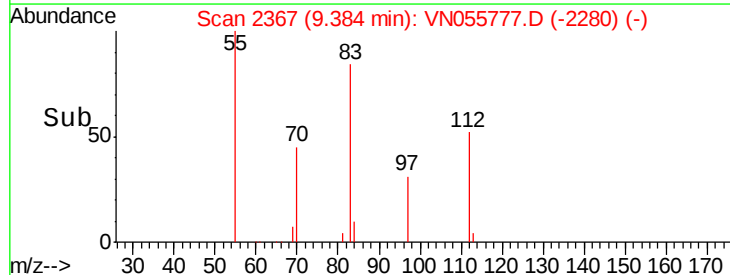
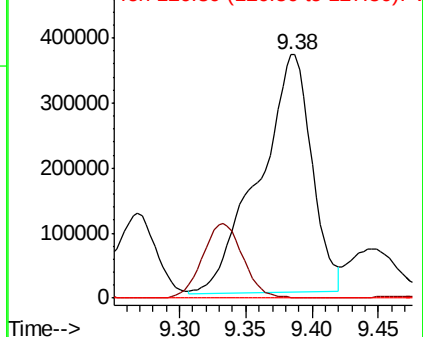


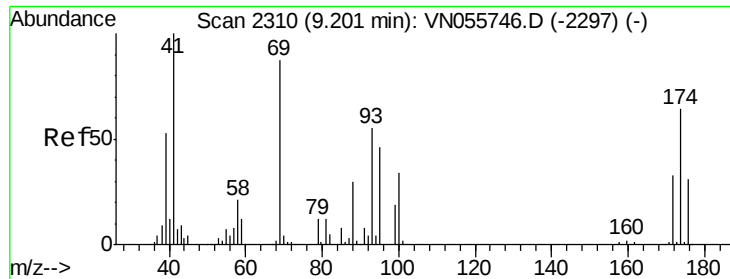
#47
Bromodichloromethane
Concen: 198.556 ug/l
RT: 9.38 min Scan# 2367
Delta R.T. -0.02 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion: 83 Resp: 1013116
Ion Ratio Lower Upper
83 100
85 0.3 52.2 78.2#
127 0.0 7.4 11.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V

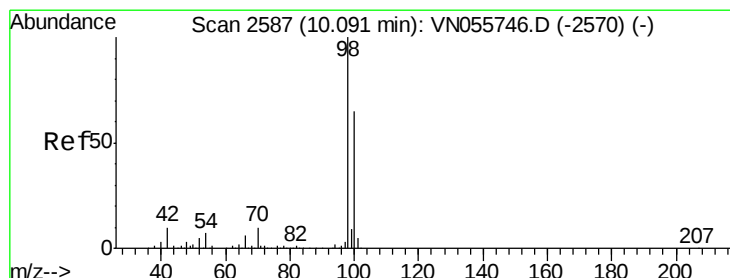
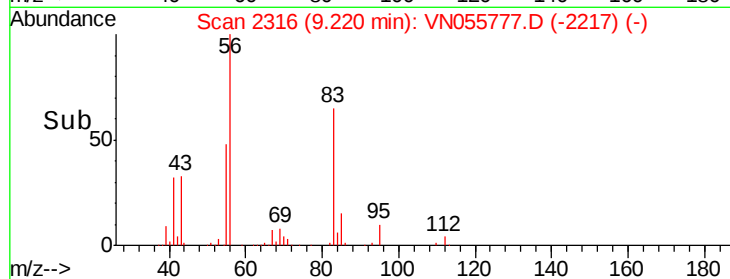
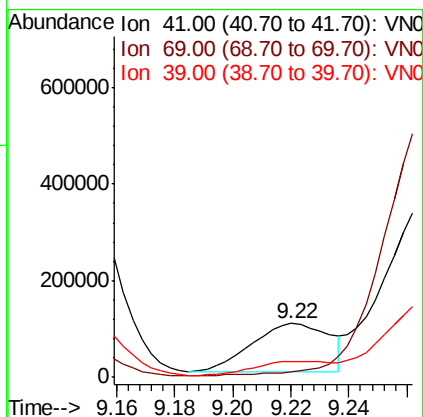
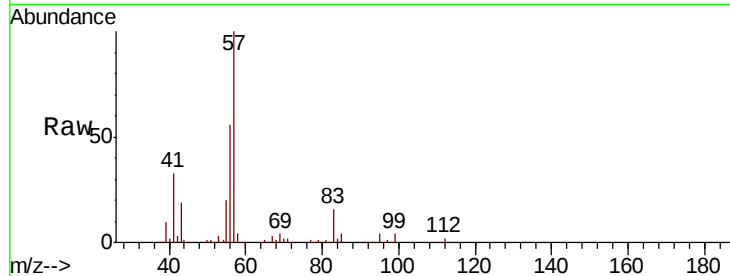




#48
Methyl methacrylate
Concen: 50.915 ug/l
RT: 9.22 min Scan# 2316
Delta R.T. 0.02 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

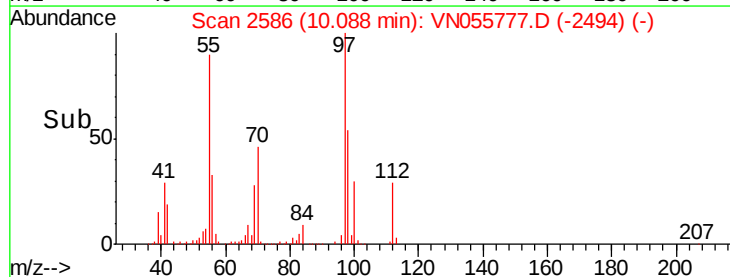
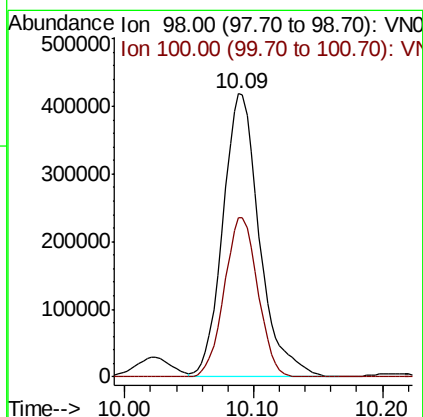
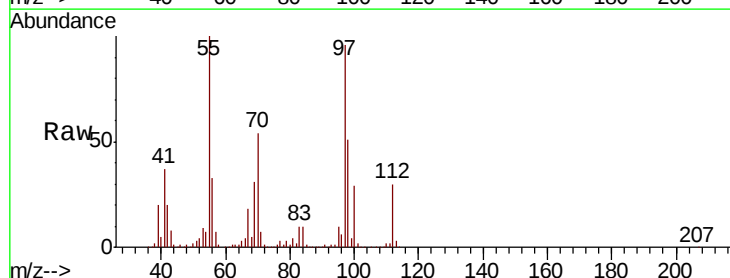
Instrument :
MSVOA_N
ClientSampled :

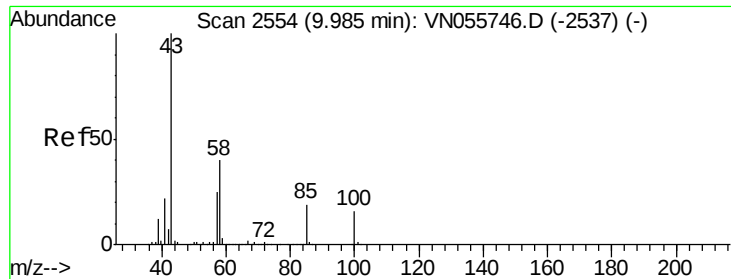
Tot Ion: 41 Resp: 184131
Ion Ratio Lower Upper
41 100
69 0.0 71.0 106.6#
39 26.7 44.2 66.2#



#50
Toluene-d8
Concen: 60.976 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion: 98 Resp: 819963
Ion Ratio Lower Upper
98 100
100 51.7 51.9 77.9#





#51

4-Methyl-2-Pentanone

Concen: 102.952 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

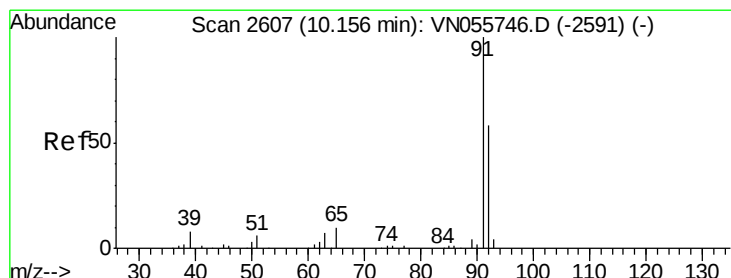
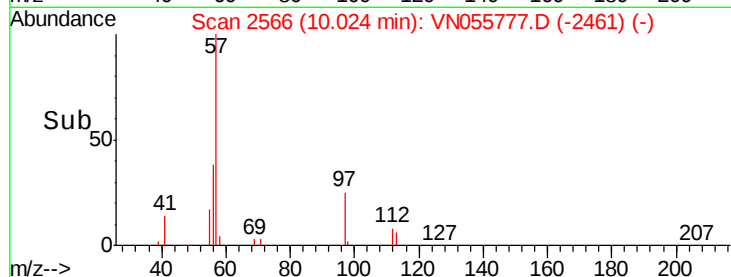
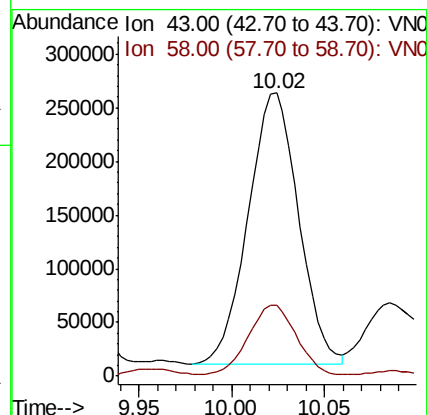
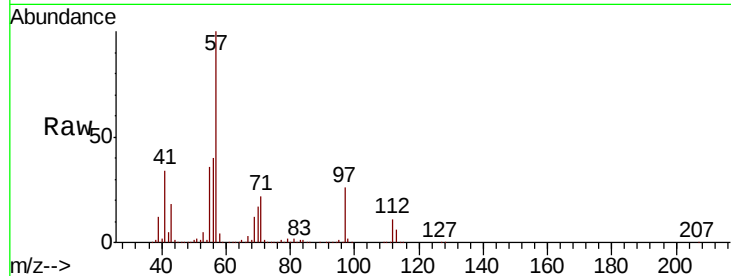
ClientSampled :

Tot Ion: 43 Resp: 477114

Ion Ratio Lower Upper

43 100

58 24.4 32.1 48.1#



#52

Toluene

Concen: 27.241 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055777.D

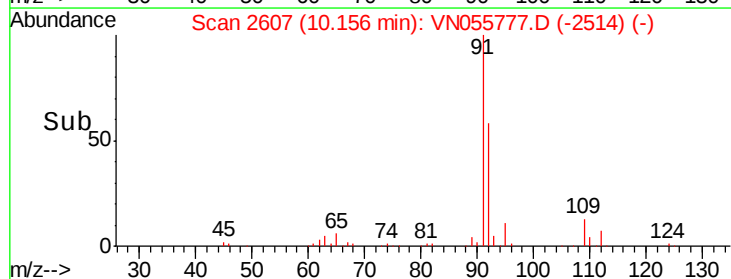
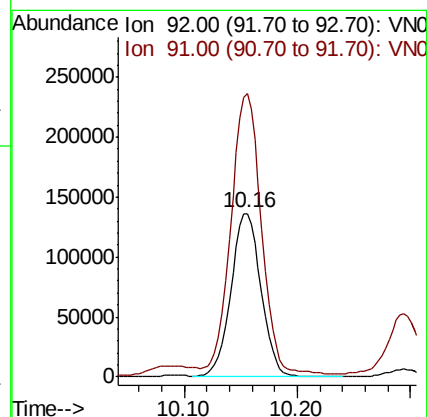
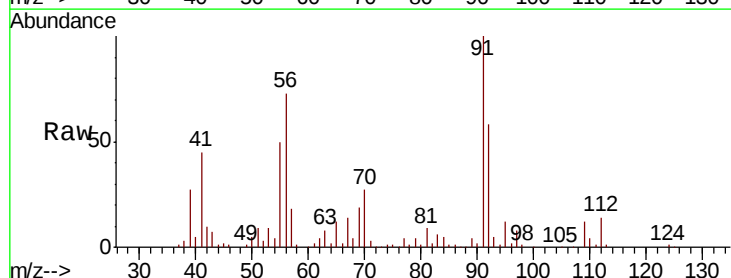
Acq: 24 May 2019 1:08

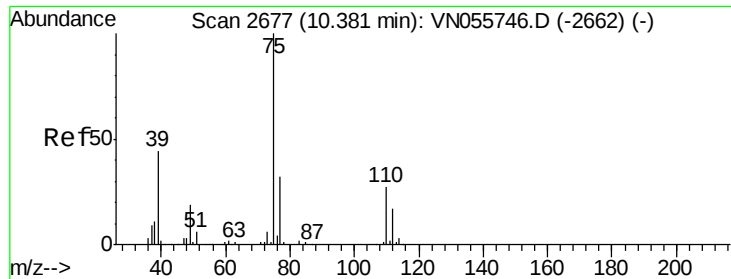
Tgt Ion: 92 Resp: 249502

Ion Ratio Lower Upper

92 100

91 174.6 139.4 209.2





#53

t-1,3-Dichloropropene

Concen: 0.219 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.01 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

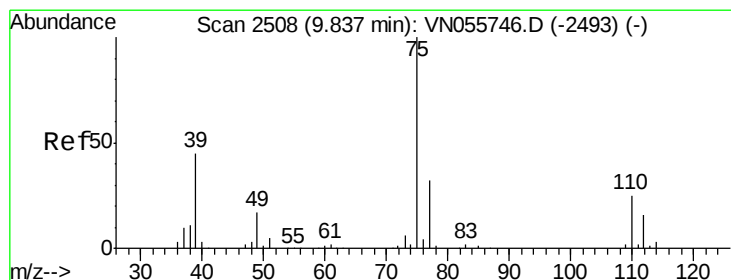
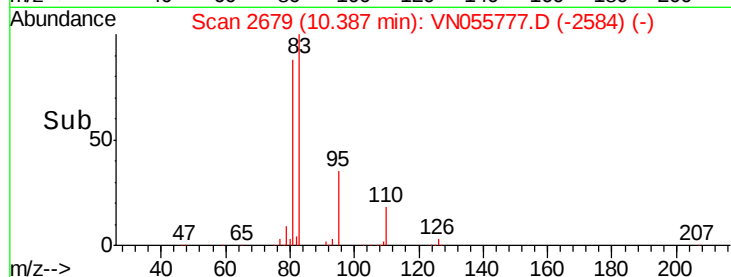
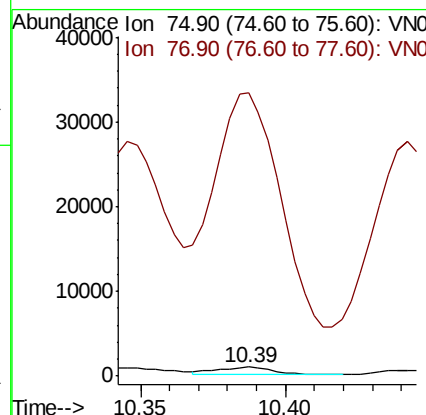
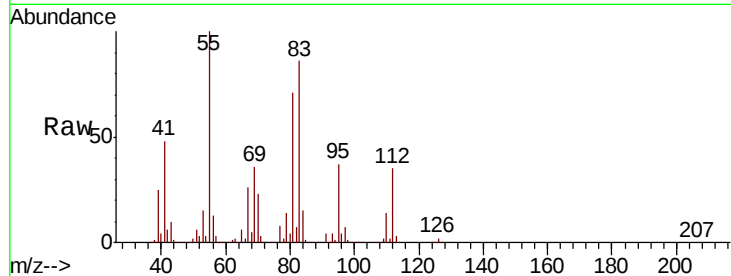
ClientSampleId :

Tot Ion: 75 Resp: 1191

Ion Ratio Lower Upper

75 100

77 3054.2 25.8 38.6#



#54

cis-1,3-Dichloropropene

Concen: 0.345 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.04 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

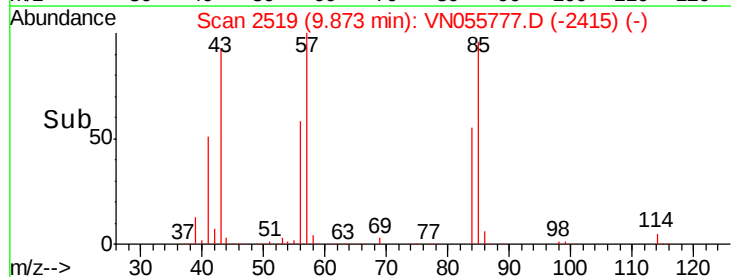
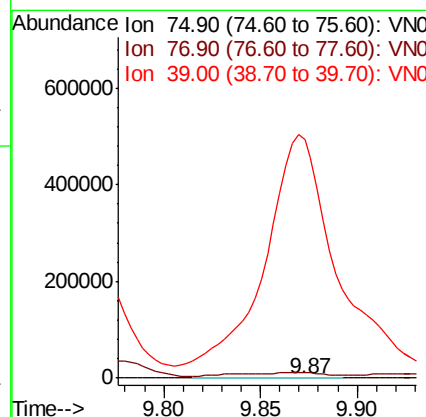
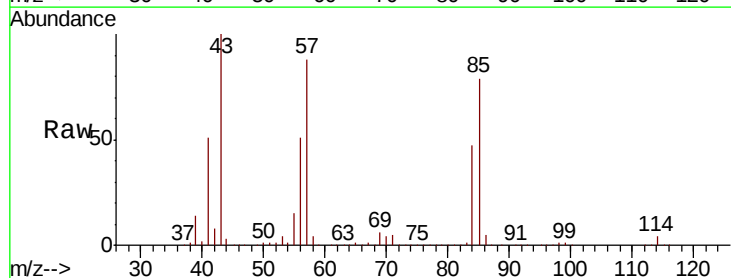
Tgt Ion: 75 Resp: 2084

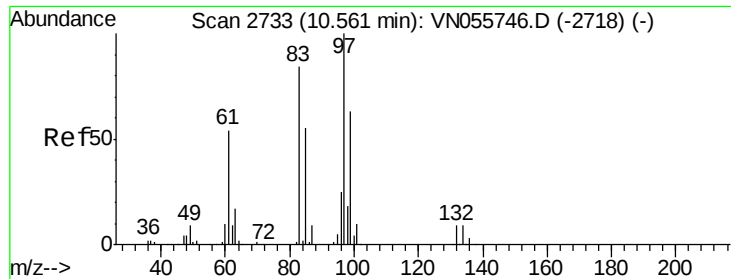
Ion Ratio Lower Upper

75 100

77 992.2 25.4 38.0#

39 58526.7 36.3 54.5#

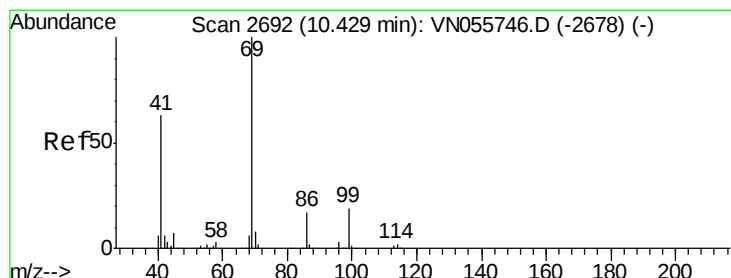
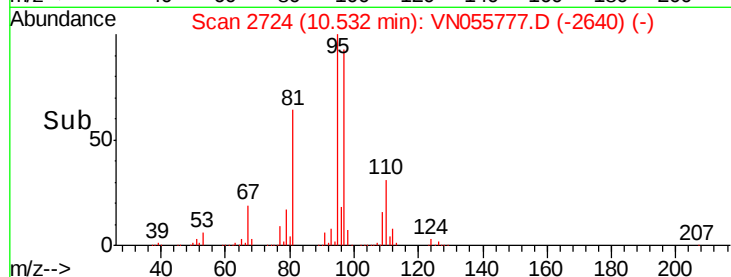
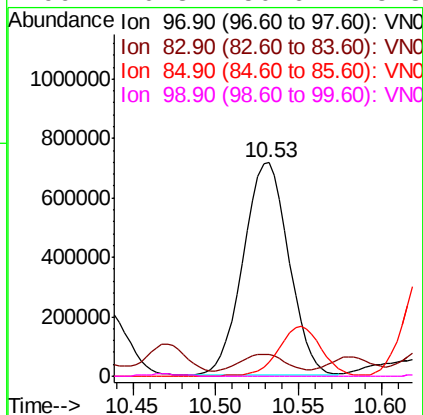
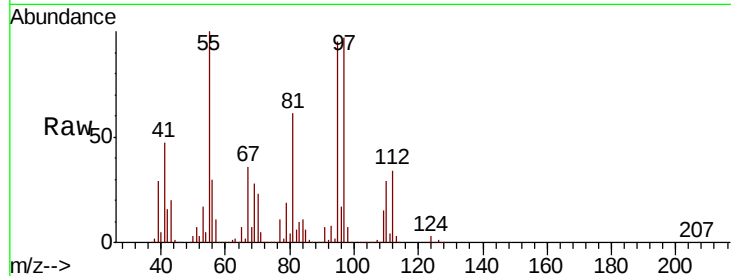




#55
 1,1,2-Trichloroethane
 Concen: 372.091 ug/l
 RT: 10.53 min Scan# 2724
 Delta R.T. -0.03 min
 Lab File: VN055777.D
 Acq: 24 May 2019 1:08

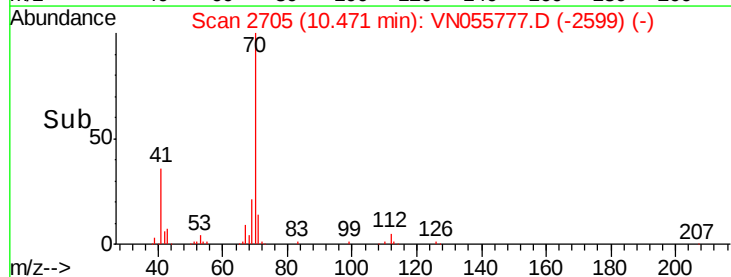
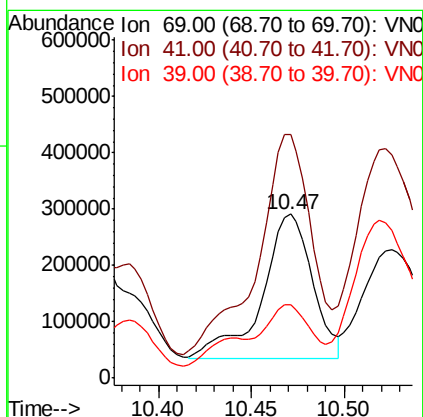
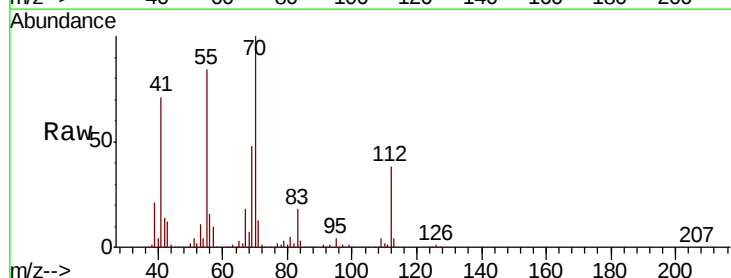
Instrument :
 MSVOA_N
 ClientSampled :

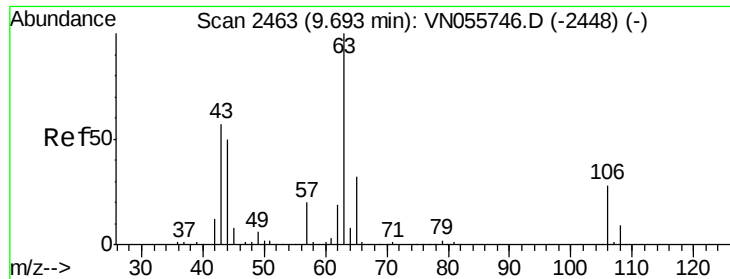
Tot Ion: 97 Resp: 1365297
 Ion Ratio Lower Upper
 97 100
 83 2.0 67.0 100.6#
 85 6.4 44.0 66.0#
 99 0.3 50.6 75.8#



#56
 Ethyl methacrylate
 Concen: 85.338 ug/l
 RT: 10.47 min Scan# 2705
 Delta R.T. 0.04 min
 Lab File: VN055777.D
 Acq: 24 May 2019 1:08

Tgt Ion: 69 Resp: 483933
 Ion Ratio Lower Upper
 69 100
 41 166.8 49.7 74.5#
 39 38.2 24.7 37.1#





#58

2-Chloroethyl Vinyl ether

Concen: 15.765 ug/l

RT: 9.67 min Scan# 2456

Delta R.T. -0.02 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

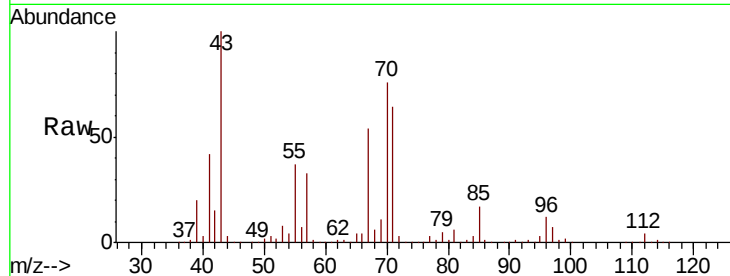
ClientSampleId :

Tot Ion: 63 Resp: 34165

Ion Ratio Lower Upper

63 100

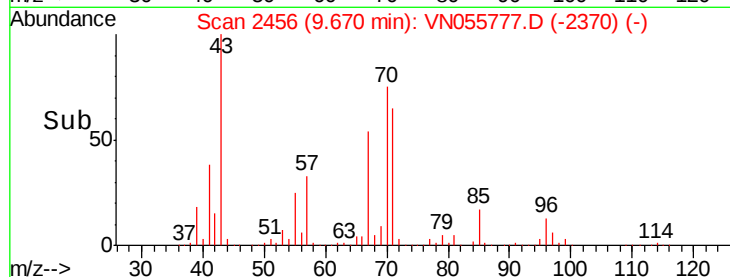
106 0.0 22.7 34.1#



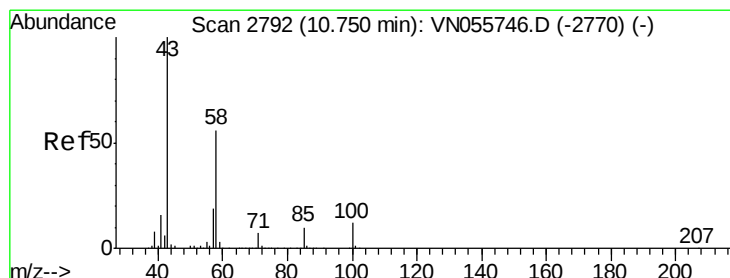
Abundance Ion 62.90 (62.60 to 63.60): VN055777.D (-2370) (-)

Ion 105.90 (105.60 to 106.60): VN055777.D (-2370) (-)

Time-->



Time-->



#59

2-Hexanone

Concen: 332.520 ug/l

RT: 10.72 min Scan# 2782

Delta R.T. -0.03 min

Lab File: VN055777.D

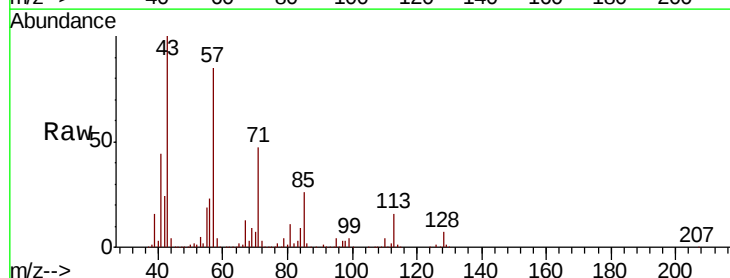
Acq: 24 May 2019 1:08

Tgt Ion: 43 Resp: 1093209

Ion Ratio Lower Upper

43 100

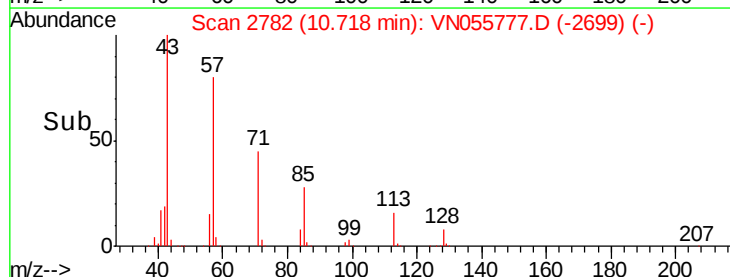
58 4.4 28.2 84.7#



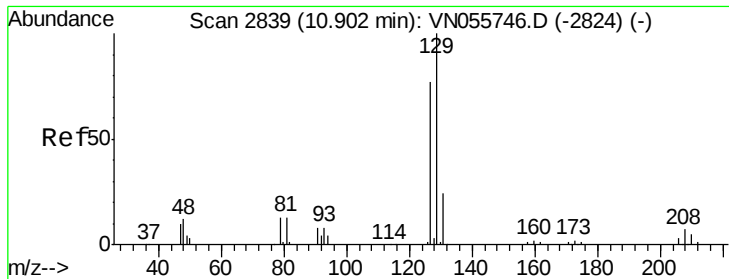
Abundance Ion 43.00 (42.70 to 43.70): VN055777.D (-2699) (-)

Ion 58.00 (57.70 to 58.70): VN055777.D (-2699) (-)

Time-->



Time-->



#60

Dibromochloromethane

Concen: 0.633 ug/l

RT: 11.13 min Scan# 2910

Delta R.T. 0.23 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

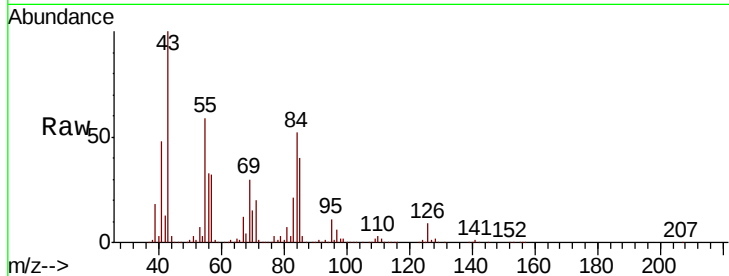
ClientSampleId :

Tot Ion:129 Resp: 2705

Ion Ratio Lower Upper

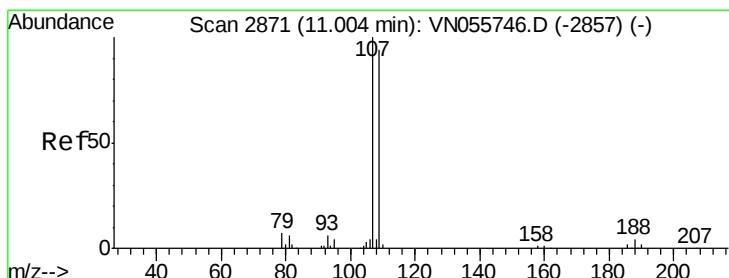
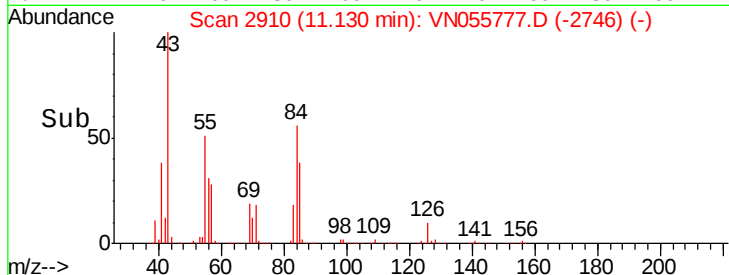
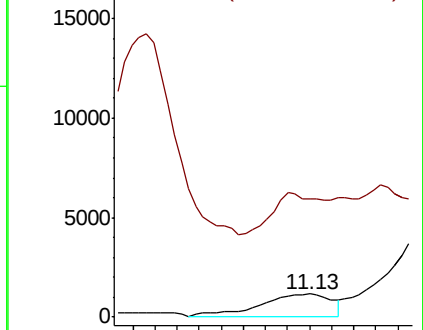
129 100

127 57.9 38.1 114.3



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 2.269 ug/l

RT: 10.98 min Scan# 2863

Delta R.T. -0.03 min

Lab File: VN055777.D

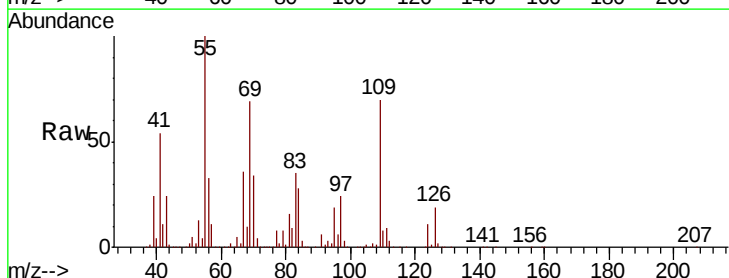
Acq: 24 May 2019 1:08

Tgt Ion:107 Resp: 8635

Ion Ratio Lower Upper

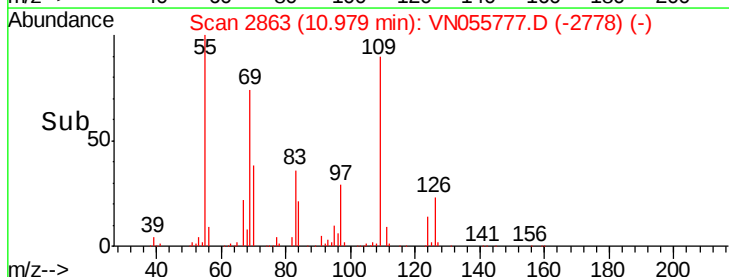
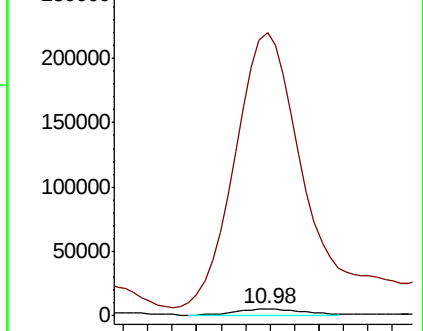
107 100

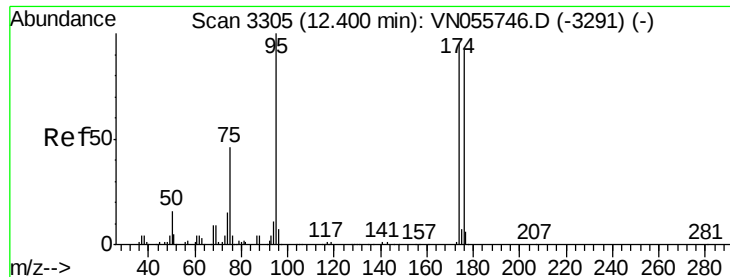
109 5007.9 74.8 112.2#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V





#62

4-Bromofluorobenzene

Concen: 88.454 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

ClientSampled :

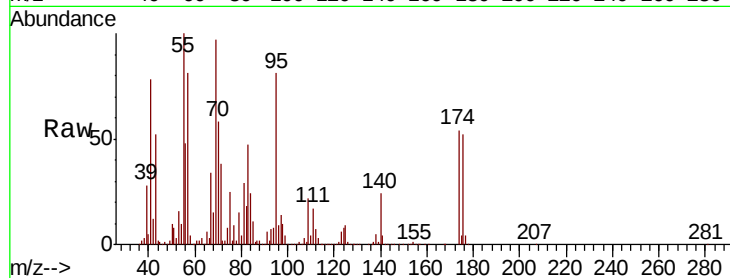
Tot Ion: 95 Resp: 407856

Ion Ratio Lower Upper

95 100

174 57.4 0.0 191.0

176 55.8 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055746.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055746.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055746.D (-3291) (-)

12.40

250000

200000

150000

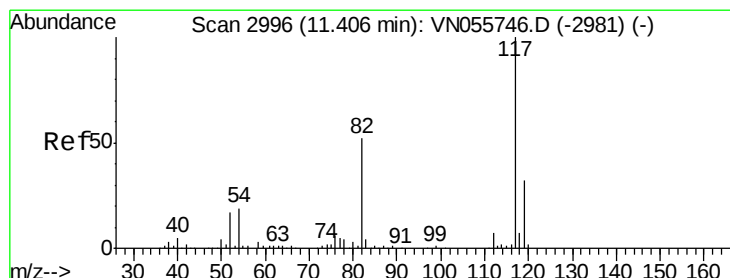
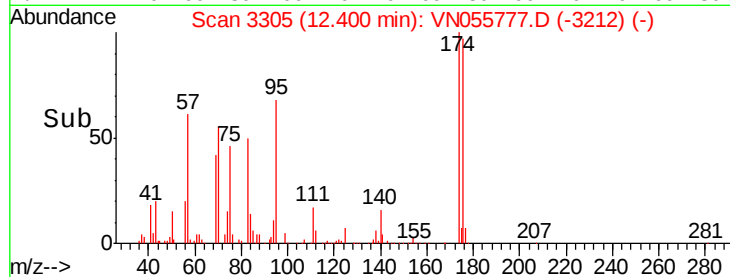
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

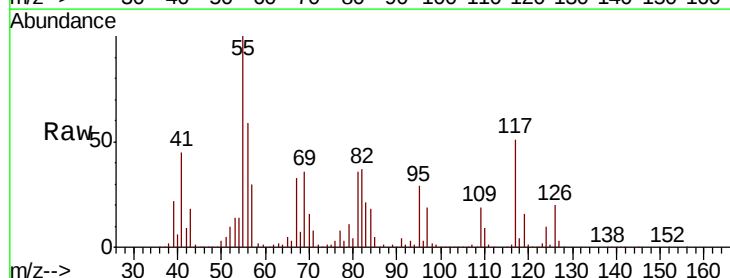
Tgt Ion: 117 Resp: 499659

Ion Ratio Lower Upper

117 100

82 57.5 41.8 62.8

119 32.3 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055746.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055746.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055746.D (-2981) (-)

11.41

400000

300000

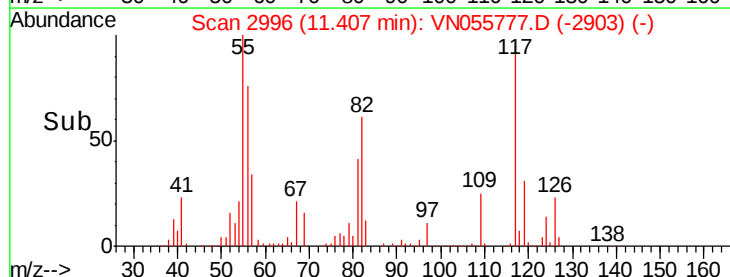
200000

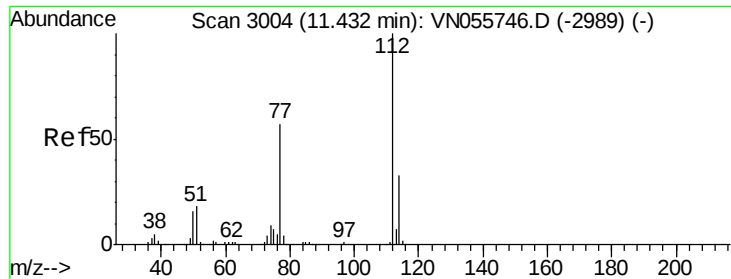
100000

0

11.40 11.50

Time-->

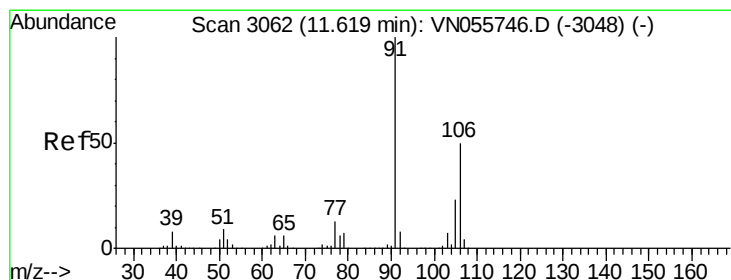
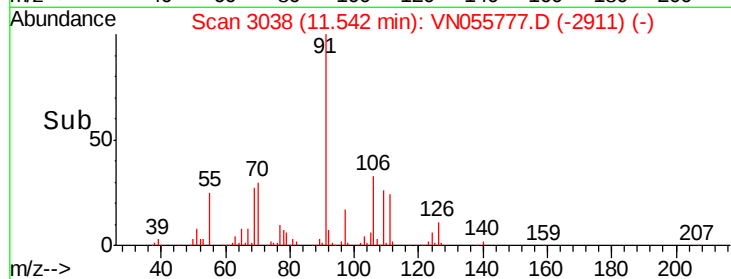
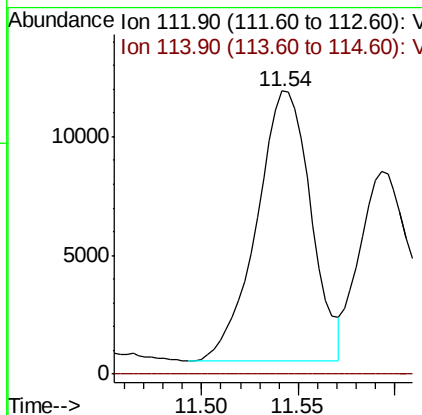
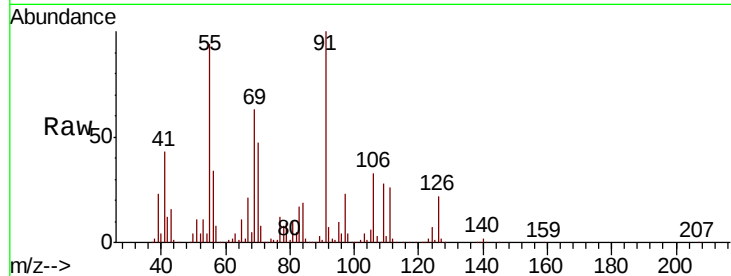




#65
Chlorobenzene
Concen: 2.227 ug/l
RT: 11.54 min Scan# 3038
Delta R.T. 0.11 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

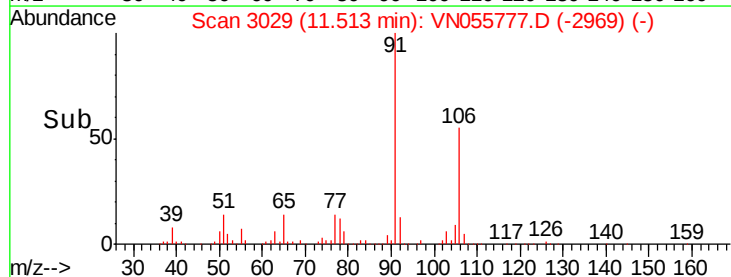
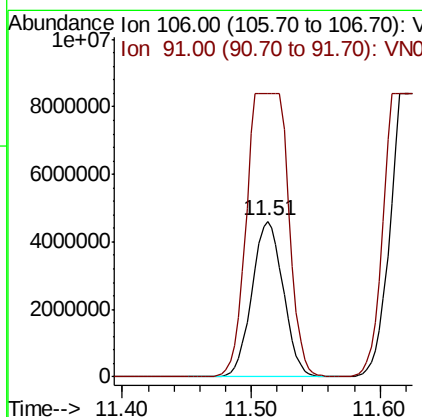
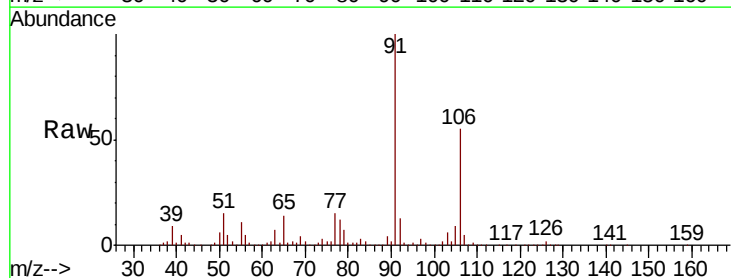
Instrument :
MSVOA_N
ClientSampled :

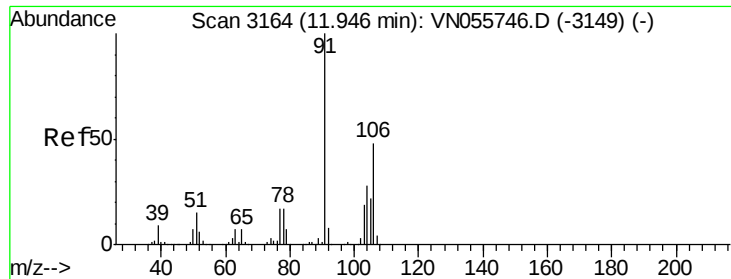
Tot Ion:112 Resp: 22272
Ion Ratio Lower Upper
112 100
114 0.0 26.2 39.4#



#68
m/p-Xylenes
Concen: 1149.390 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.11 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion:106 Resp: 7794313
Ion Ratio Lower Upper
106 100
91 0.0 159.3 238.9#

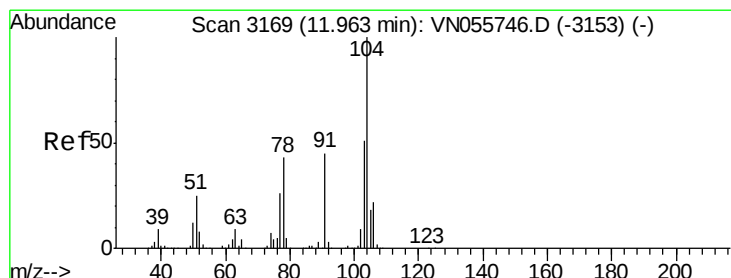
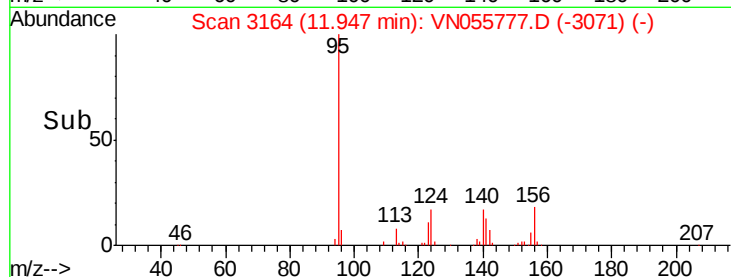
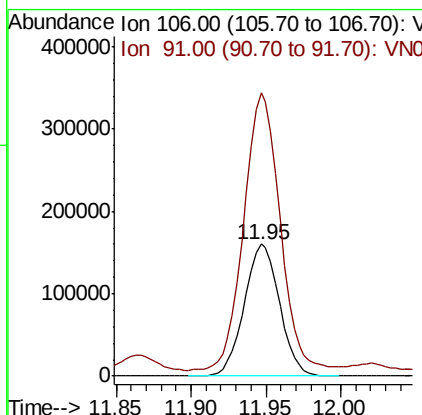
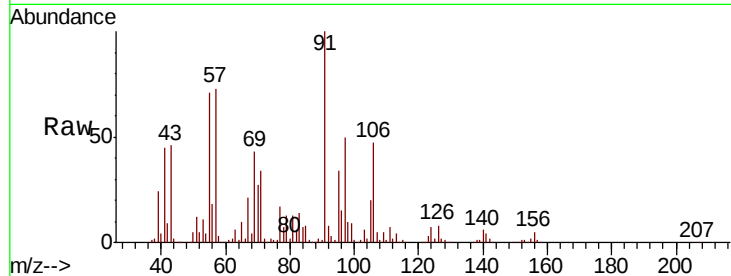




#69
o-Xylene
Concen: 38.872 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

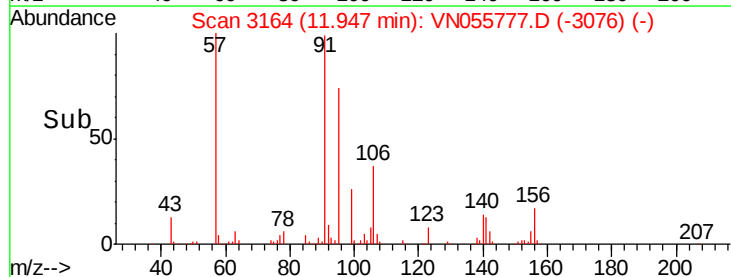
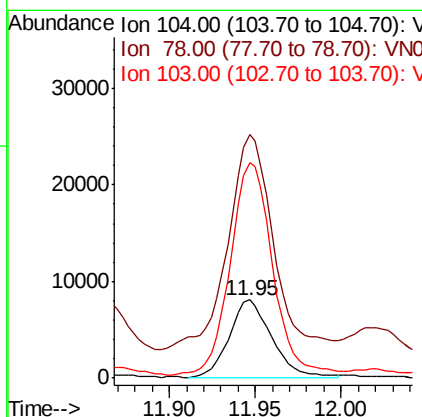
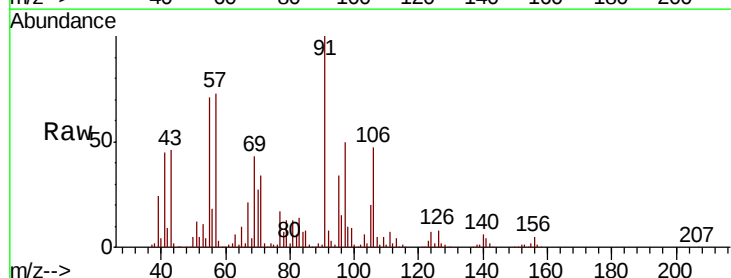
Instrument :
MSVOA_N
ClientSampleId :

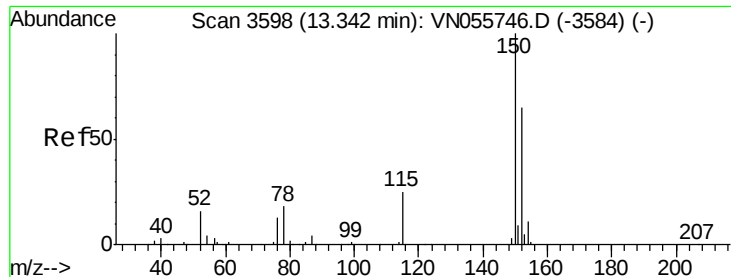
Tot Ion:106 Resp: 261526
Ion Ratio Lower Upper
106 100
91 216.1 104.7 314.1



#70
Styrene
Concen: 1.302 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.02 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion:104 Resp: 14188
Ion Ratio Lower Upper
104 100
78 289.8 37.8 56.6#
103 263.7 44.2 66.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

ClientSampled :

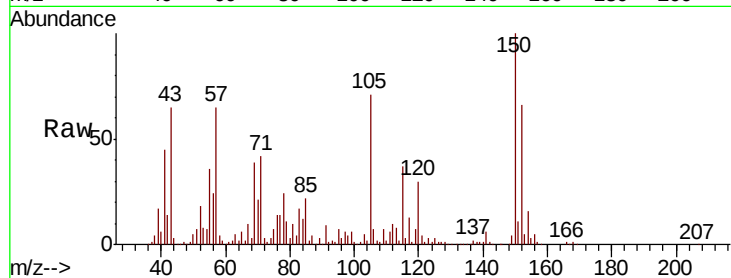
Tot Ion:152 Resp: 302295

Ion Ratio Lower Upper

152 100

115 0.0 27.0 81.0#

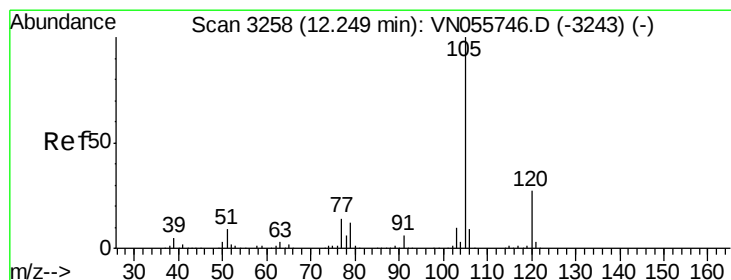
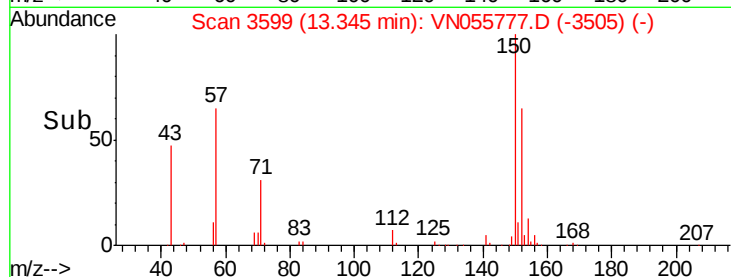
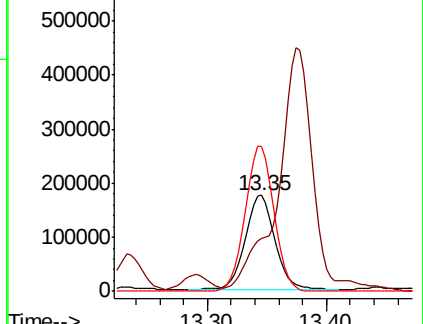
150 146.9 0.0 343.2



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



#73

Isopropylbenzene

Concen: 548.804 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055777.D

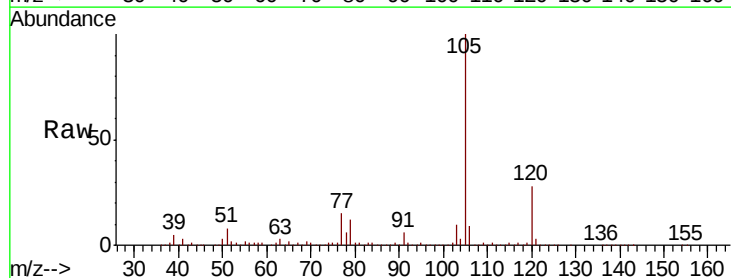
Acq: 24 May 2019 1:08

Tgt Ion:105 Resp:11229012

Ion Ratio Lower Upper

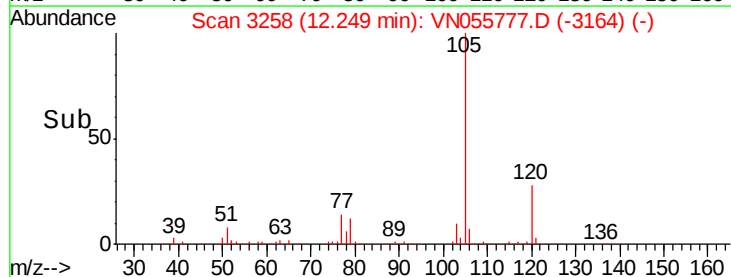
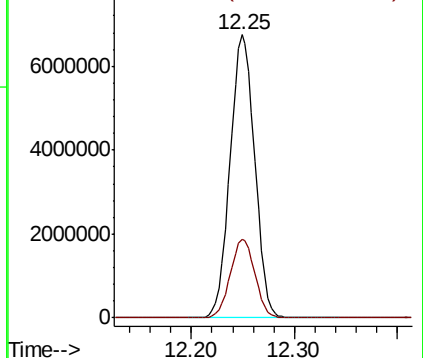
105 100

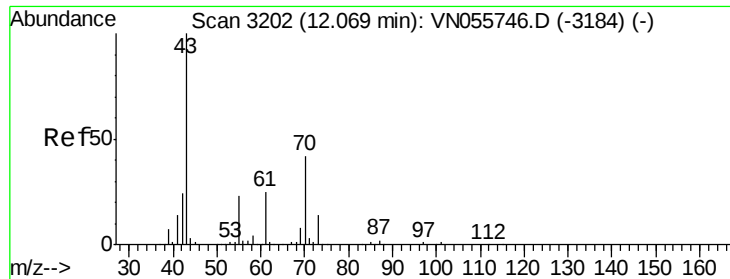
120 27.7 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: 49.647 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.02 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 406534

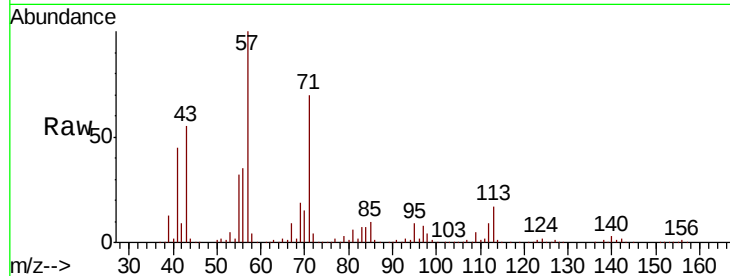
Ion Ratio Lower Upper

43 100

70 15.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

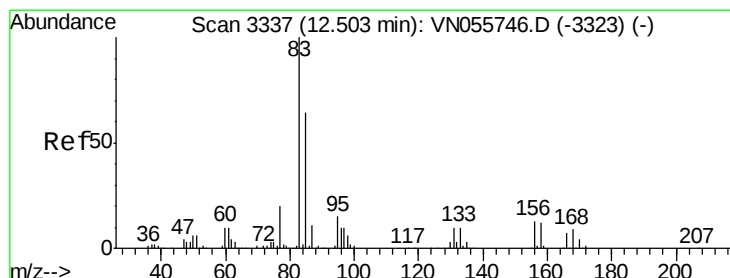
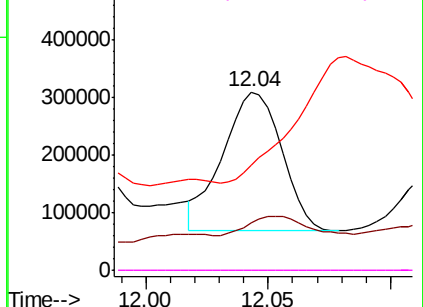
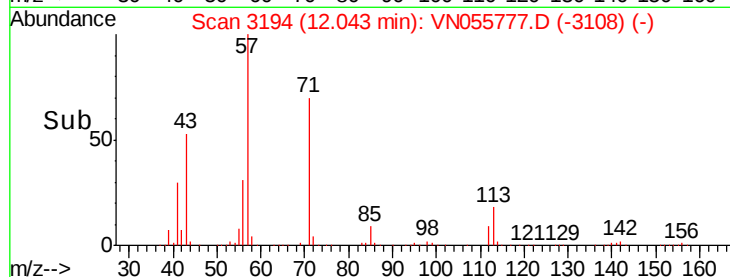


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#75

1,1,2,2-Tetrachloroethane

Concen: 3.716 ug/l

RT: 12.54 min Scan# 3350

Delta R.T. 0.04 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

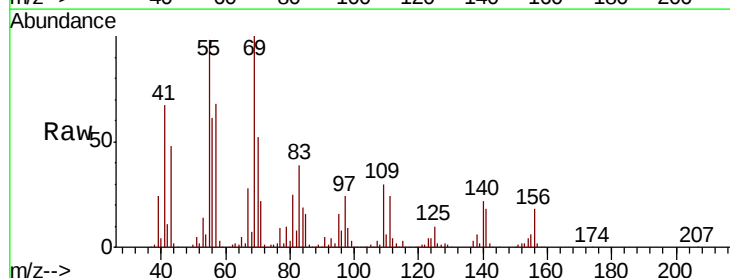
Tgt Ion: 83 Resp: 43192

Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

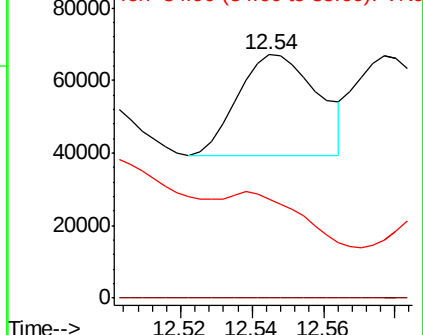
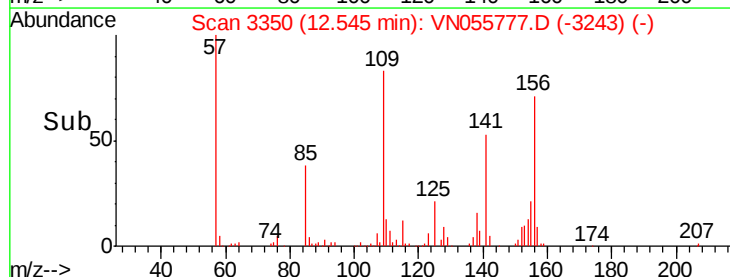
85 0.0 32.4 97.0#

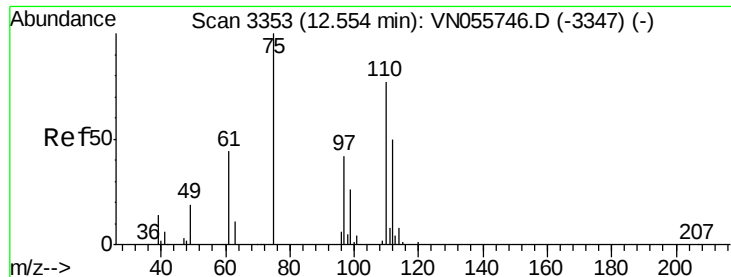


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 10.254 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.04 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

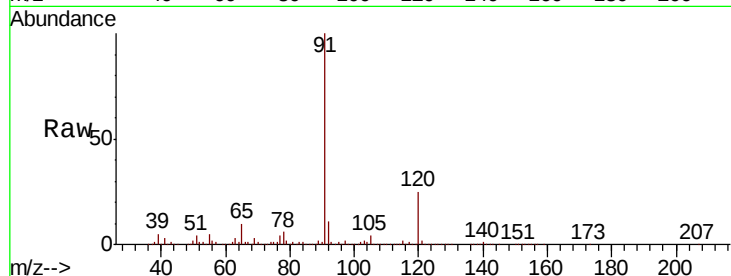
ClientSampleId :

Tot Ion: 75 Resp: 66403

Ion Ratio Lower Upper

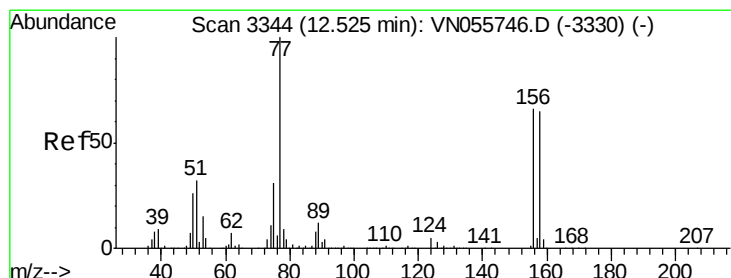
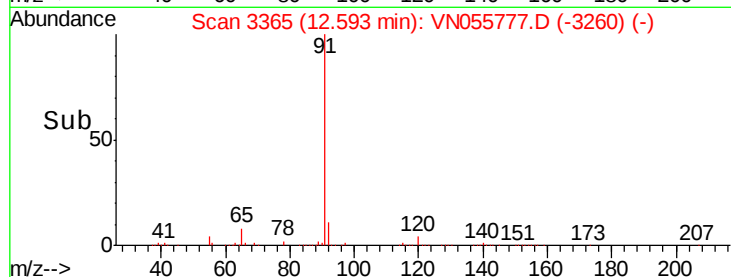
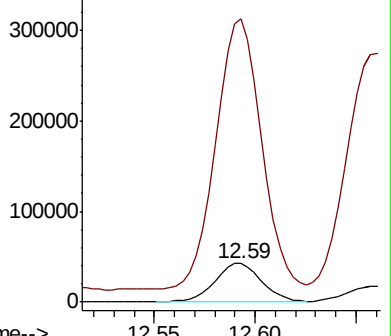
75 100

77 712.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN055746.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN055746.D (-3347) (-)



#77

Bromobenzene

Concen: 32.102 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

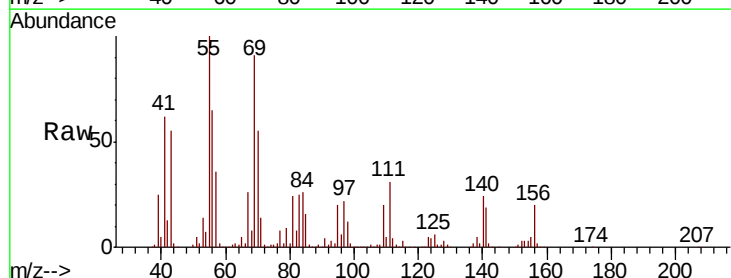
Tgt Ion: 156 Resp: 207077

Ion Ratio Lower Upper

156 100

77 0.0 90.8 272.5#

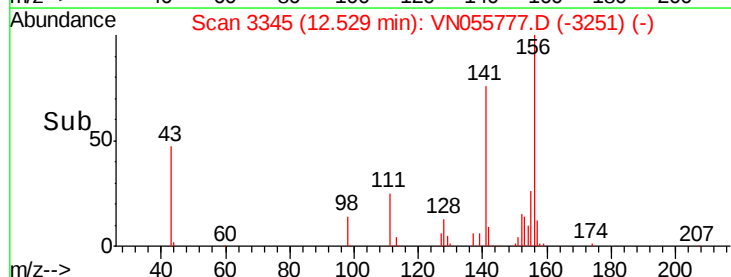
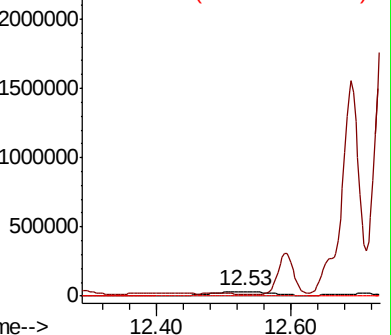
158 0.0 49.3 147.8#

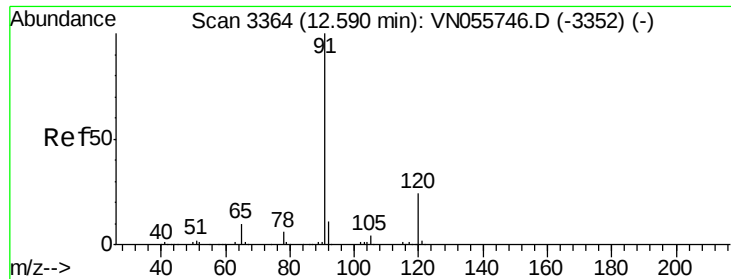


Abundance Ion 155.80 (155.50 to 156.50): VN055746.D (-3330) (-)

Ion 77.00 (76.70 to 77.70): VN055746.D (-3330) (-)

Ion 157.80 (157.50 to 158.50): VN055746.D (-3330) (-)





#78

n-propylbenzene

Concen: 480.359 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

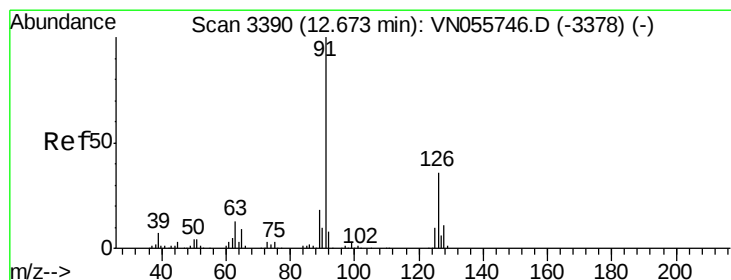
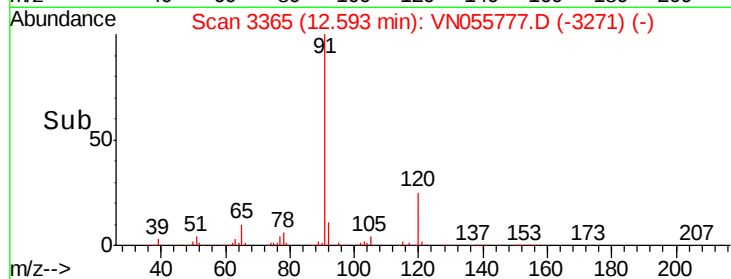
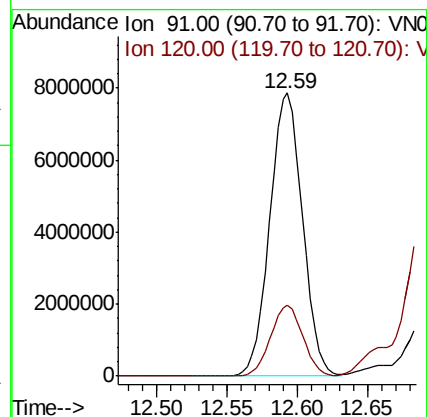
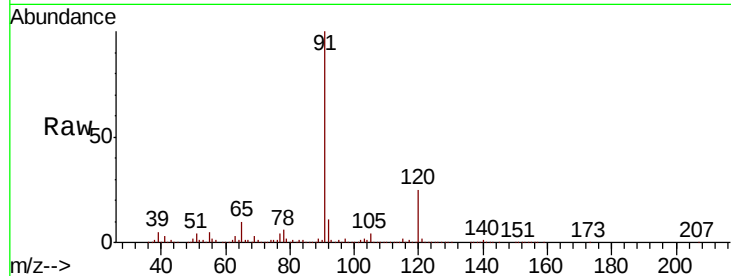
ClientSampled :

Tot Ion: 91 Resp:12620753

Ion Ratio Lower Upper

91 100

120 24.8 12.0 36.0



#79

2-Chlorotoluene

Concen: 208.185 ug/l

RT: 12.69 min Scan# 3395

Delta R.T. 0.02 min

Lab File: VN055777.D

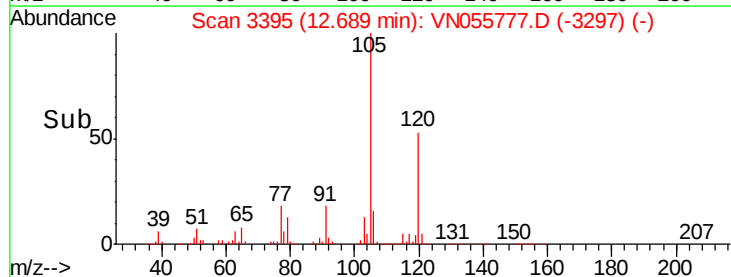
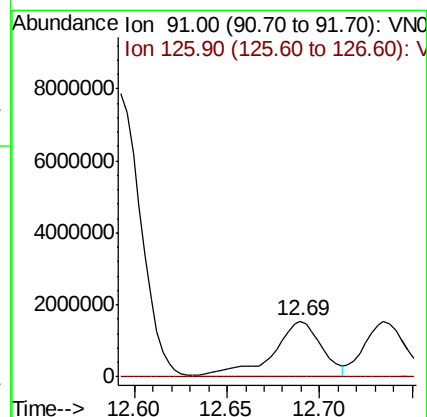
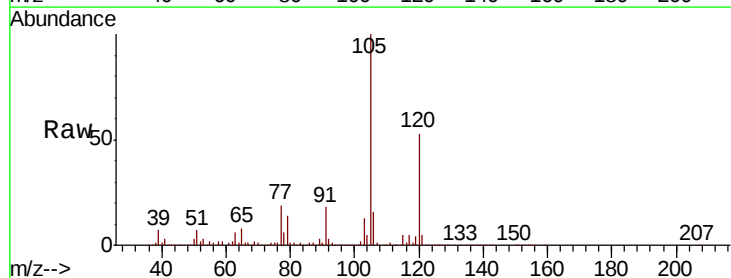
Acq: 24 May 2019 1:08

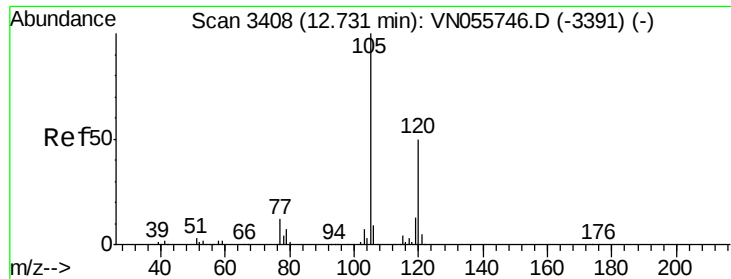
Tgt Ion: 91 Resp: 2832116

Ion Ratio Lower Upper

91 100

126 0.1 18.1 54.4#

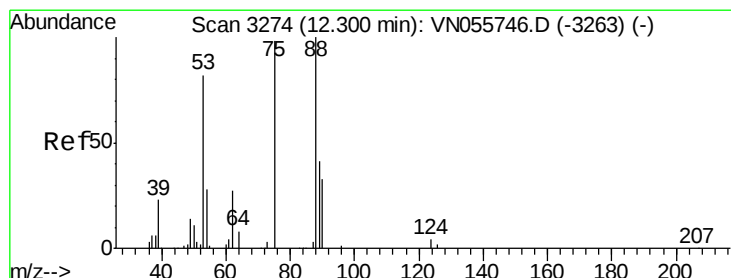
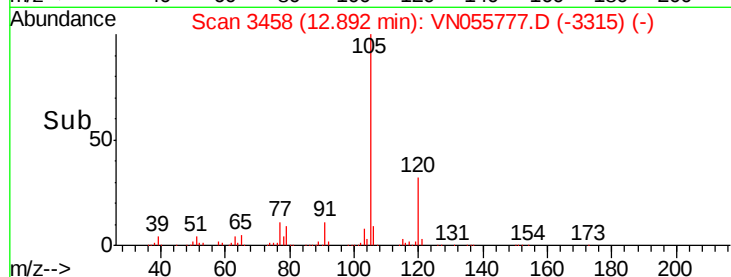
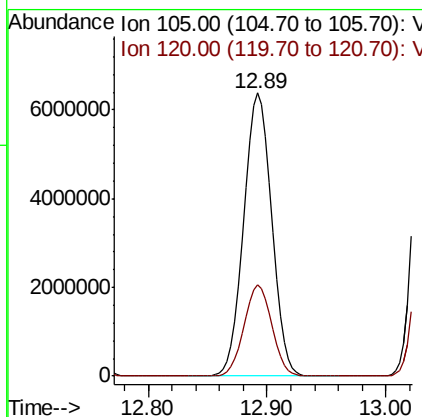
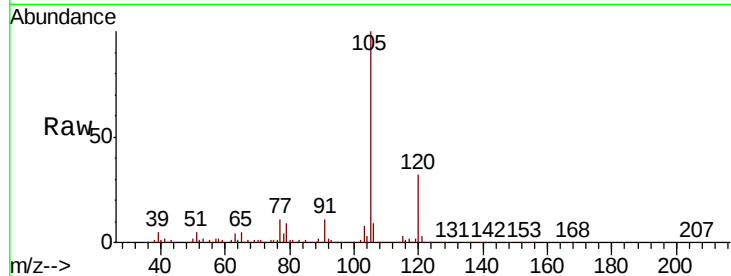




#80
 1,3,5-Trimethylbenzene
 Concen: 601.658 ug/l
 RT: 12.89 min Scan# 3458
 Delta R.T. 0.16 min
 Lab File: VN055777.D
 Acq: 24 May 2019 1:08

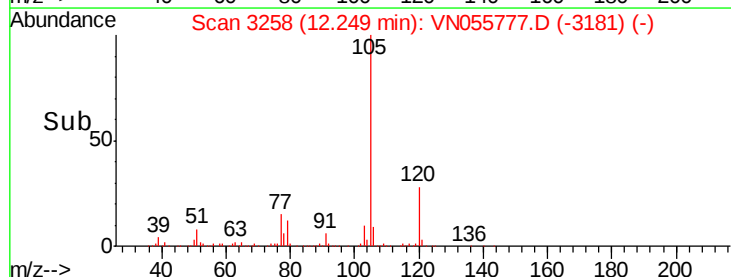
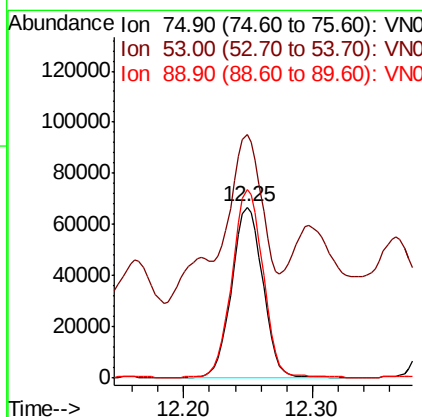
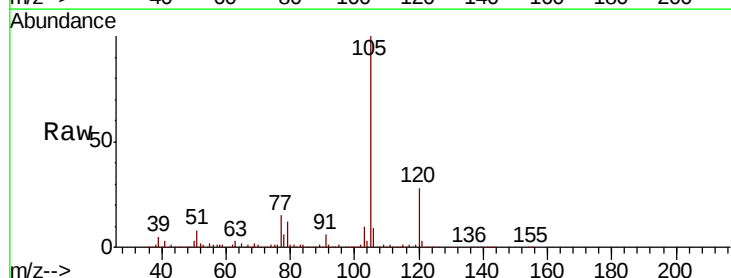
Instrument :
 MSVOA_N
 ClientSampleId :

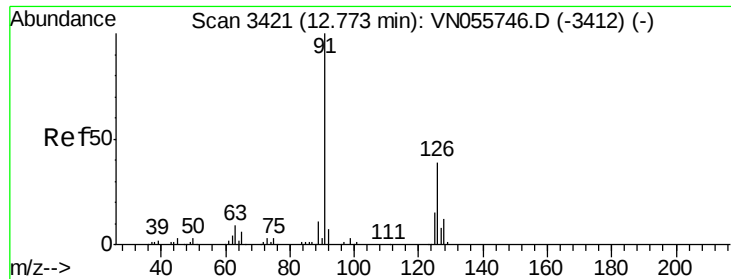
Tot Ion:105 Resp:10378824
 Ion Ratio Lower Upper
 105 100
 120 31.9 24.7 74.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 49.510 ug/l
 RT: 12.25 min Scan# 3258
 Delta R.T. -0.05 min
 Lab File: VN055777.D
 Acq: 24 May 2019 1:08

Tgt Ion: 75 Resp: 111236
 Ion Ratio Lower Upper
 75 100
 53 86.3 68.1 102.1
 89 110.8 36.9 55.3#





#82

4-Chlorotoluene

Concen: 152.229 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.04 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

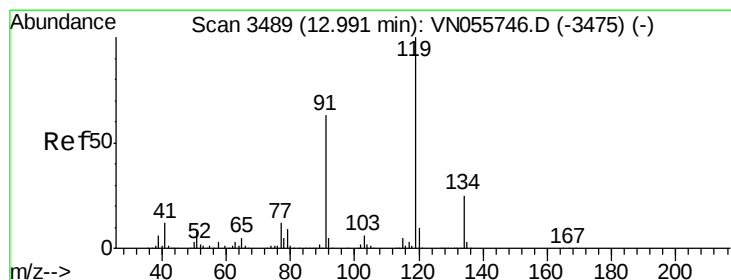
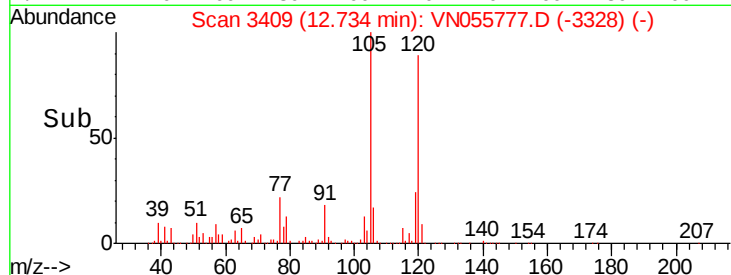
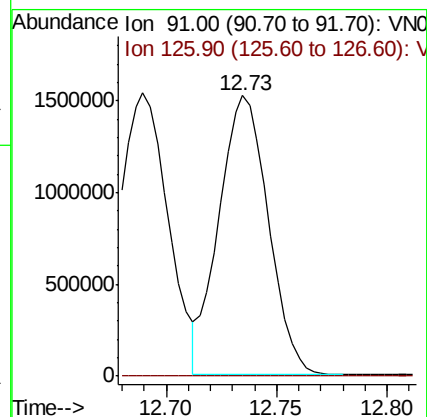
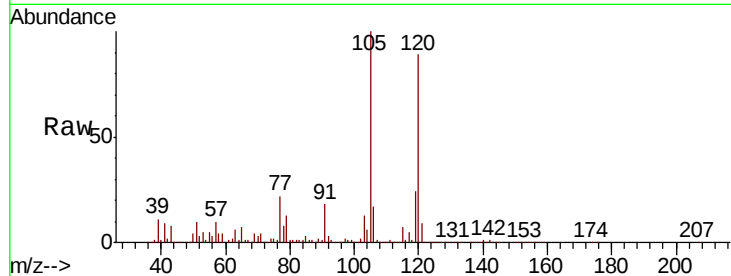
ClientSampleId :

Tot Ion: 91 Resp: 2351049

Ion Ratio Lower Upper

91 100

126 0.2 17.8 53.3#



#83

tert-Butylbenzene

Concen: 567.135 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. 0.06 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

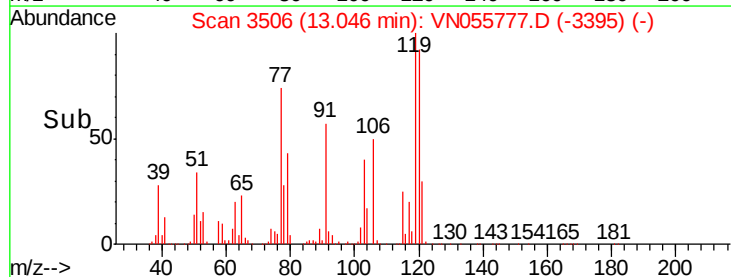
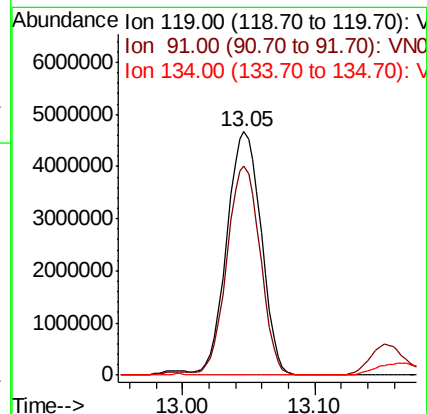
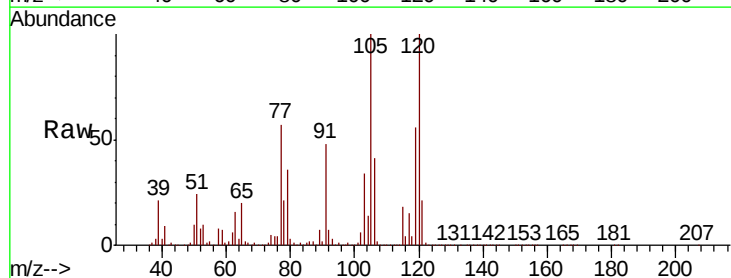
Tgt Ion: 119 Resp: 8383530

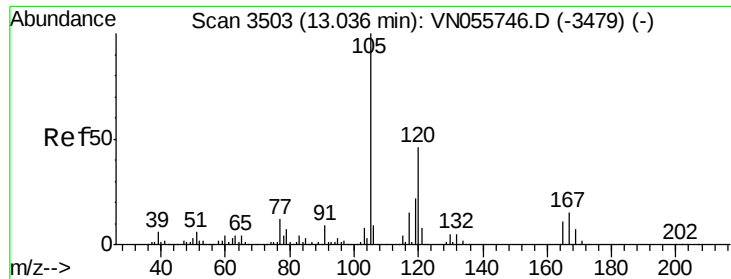
Ion Ratio Lower Upper

119 100

91 83.1 30.9 92.8

134 0.0 13.3 39.8#





#84

1,2,4-Trimethylbenzene

Concen: 600.112 ug/l

RT: 12.89 min Scan# 3458

Delta R.T. -0.14 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

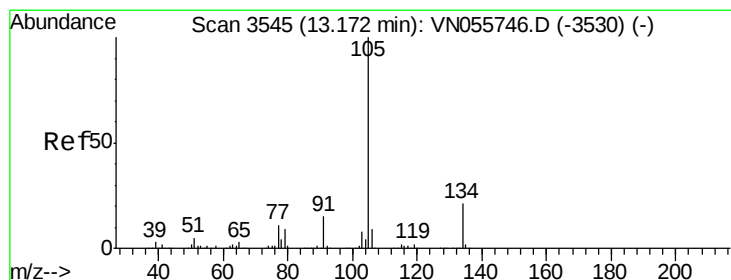
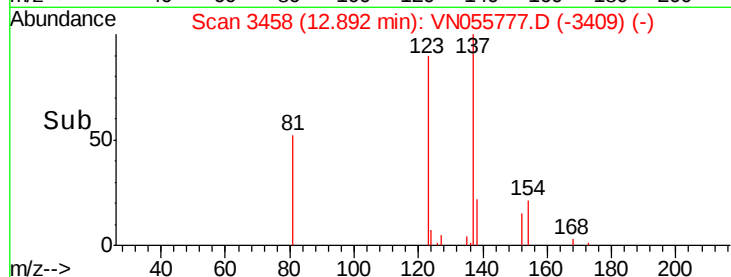
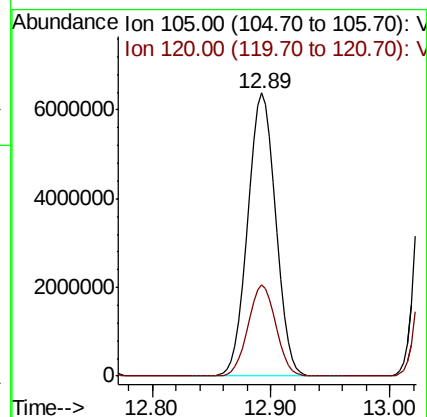
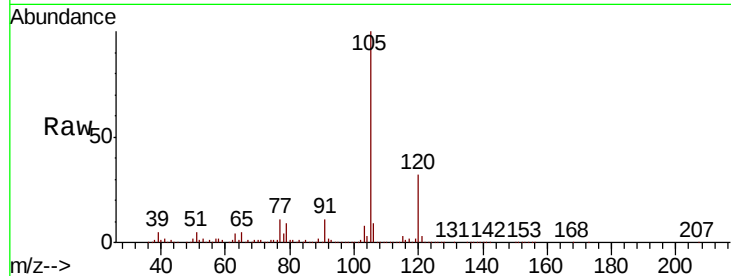
ClientSampleId :

Tot Ion:105 Resp:10378824

Ion Ratio Lower Upper

105 100

120 31.9 23.0 69.0



#85

sec-Butylbenzene

Concen: 64.643 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055777.D

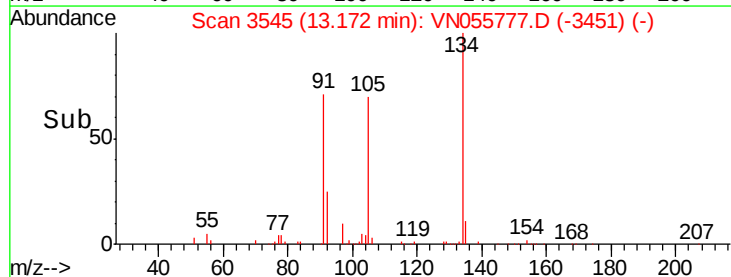
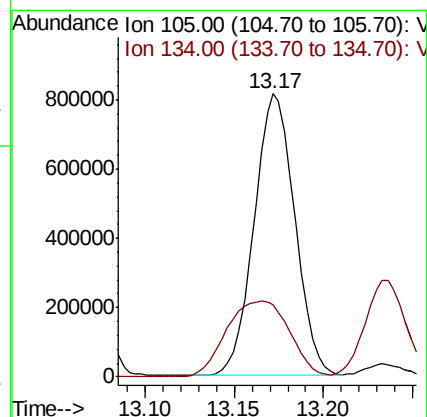
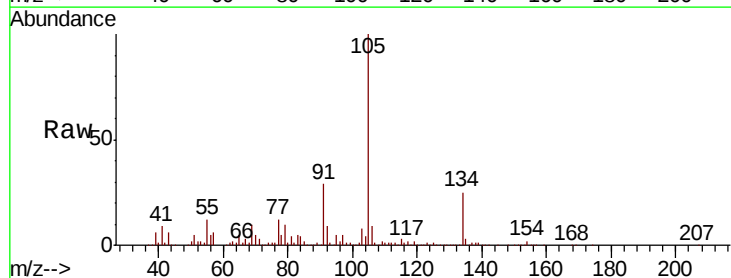
Acq: 24 May 2019 1:08

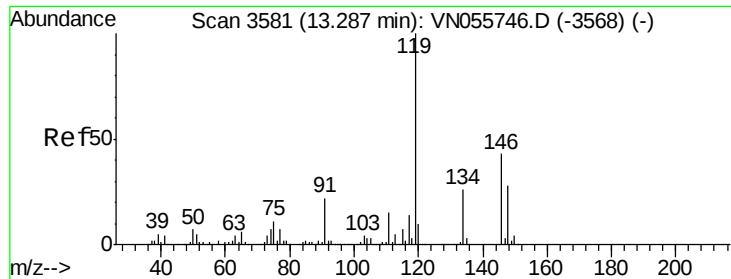
Tgt Ion:105 Resp: 1301403

Ion Ratio Lower Upper

105 100

134 41.5 10.4 31.2#

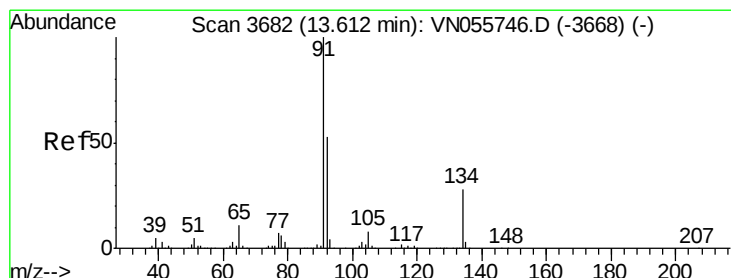
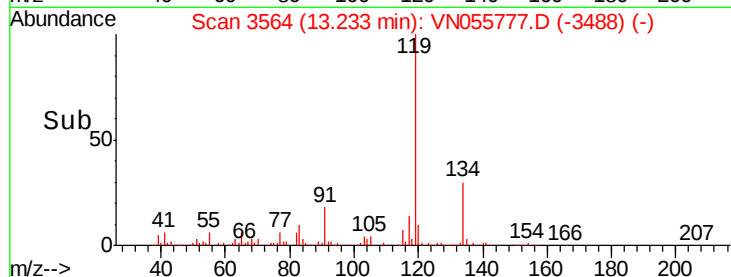
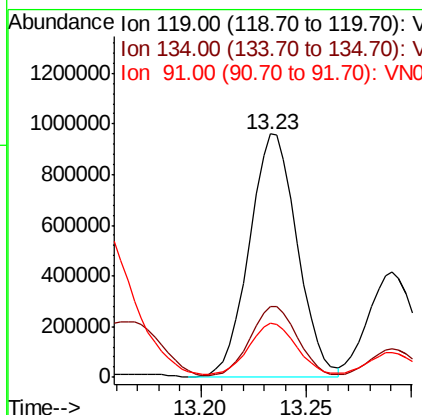
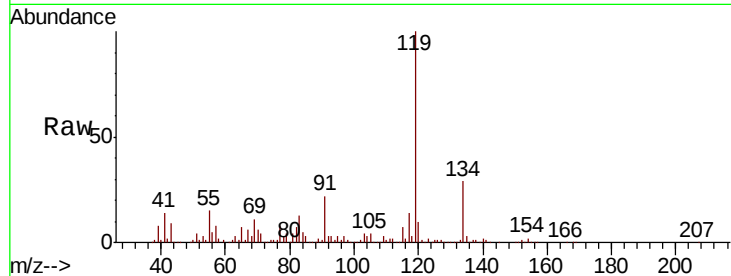




#86
p-Isopropyltoluene
Concen: 71.894 ug/l
RT: 13.23 min Scan# 3564
Delta R.T. -0.05 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

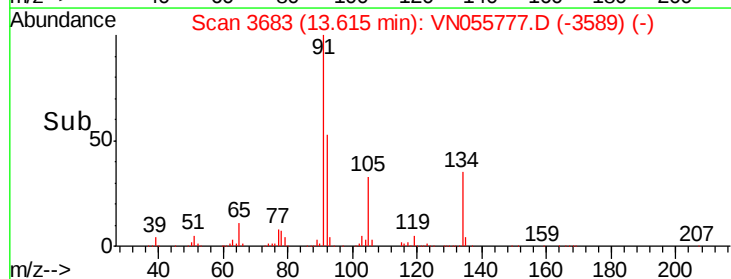
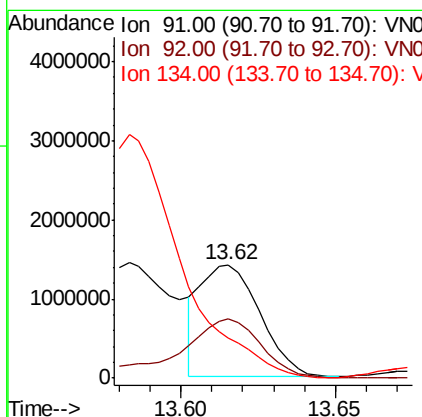
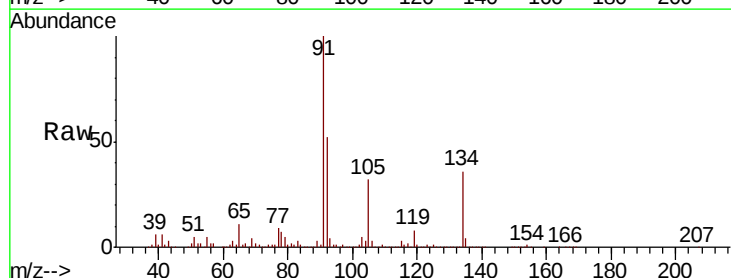
Instrument :
MSVOA_N
ClientSampled :

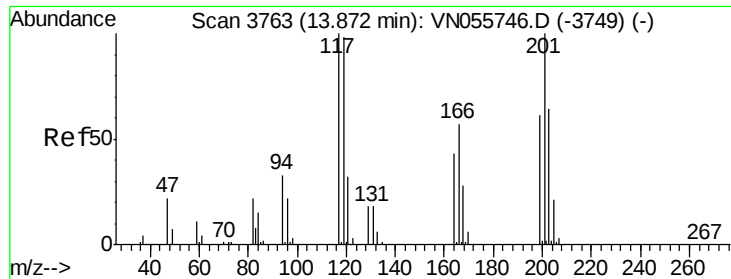
Tot Ion:119 Resp: 1509291
Ion Ratio Lower Upper
119 100
134 29.3 13.4 40.1
91 20.4 10.9 32.9



#89
n-Butylbenzene
Concen: 117.659 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Tgt Ion: 91 Resp: 1892565
Ion Ratio Lower Upper
91 100
92 74.4 26.4 79.0
134 0.0 13.9 41.7#





#90

Hexachloroethane

Concen: 250.661 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.02 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

Instrument :

MSVOA_N

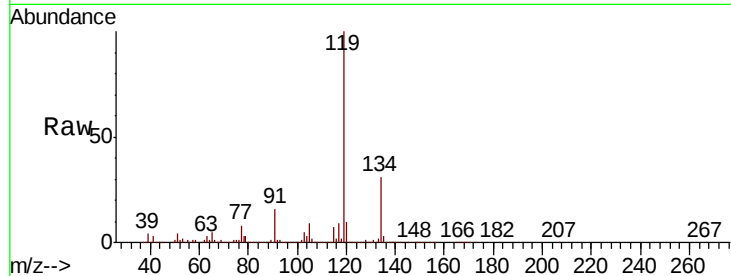
ClientSampleId :

Tot Ion:117 Resp: 1001599

Ion Ratio Lower Upper

117 100

201 0.0 50.0 150.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.89

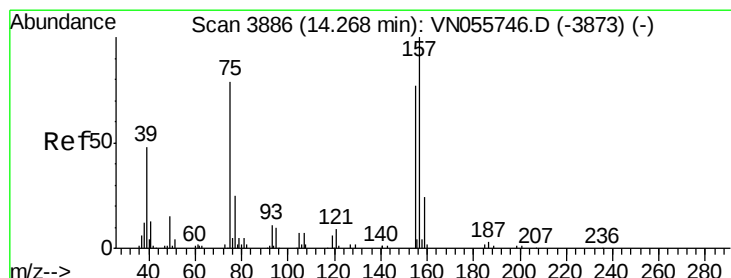
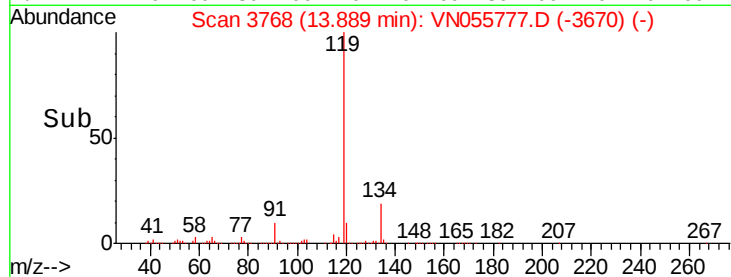
600000

400000

200000

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 37.084 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. -0.02 min

Lab File: VN055777.D

Acq: 24 May 2019 1:08

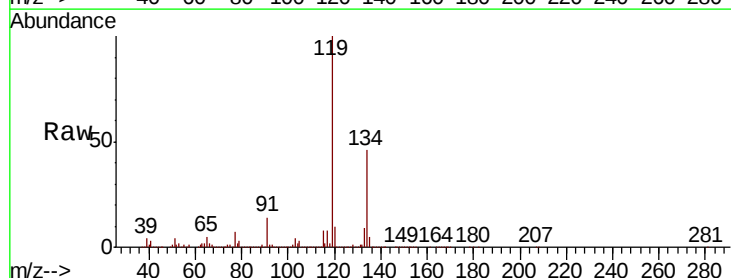
Tgt Ion: 75 Resp: 49672

Ion Ratio Lower Upper

75 100

155 0.0 50.0 150.1#

157 0.0 64.8 194.3#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.25

40000

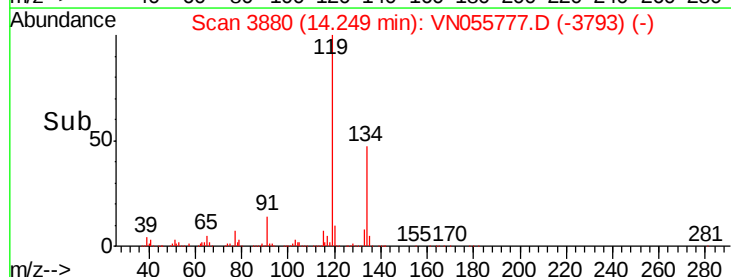
30000

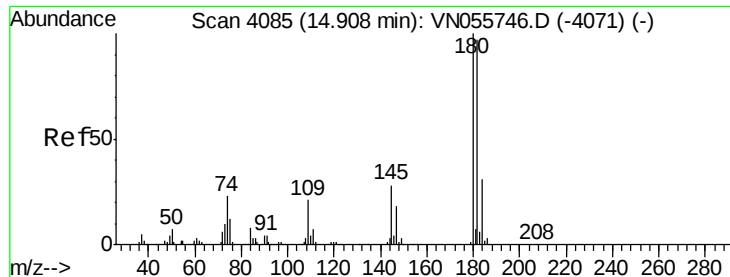
20000

10000

0

Time-->

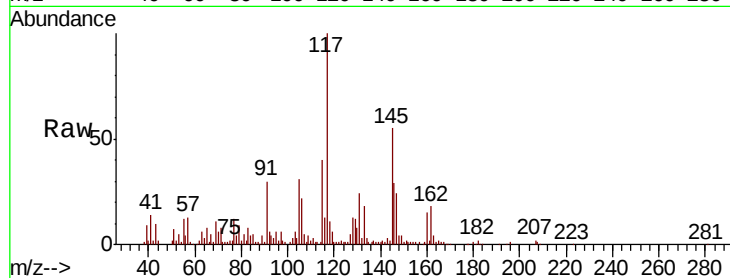




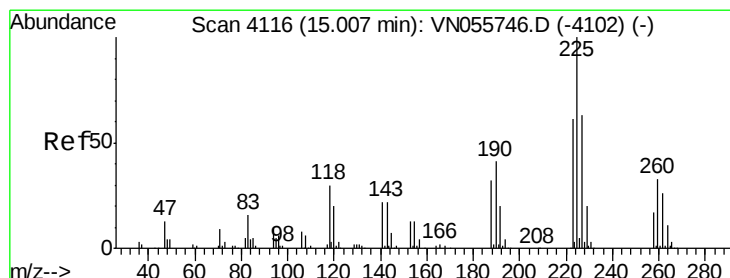
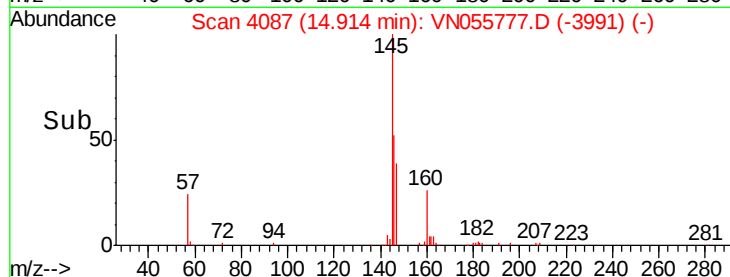
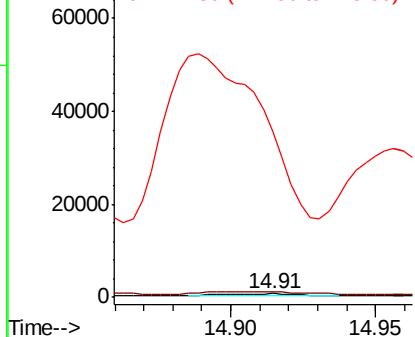
#93
 1,2,4-Trichlorobenzene
 Concen: 3.796 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN055777.D
 Acq: 24 May 2019 1:08

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	188.5	48.3	144.9#
145	0.0	14.0	41.9#

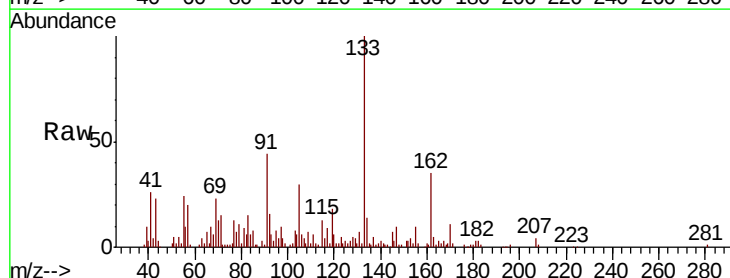


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

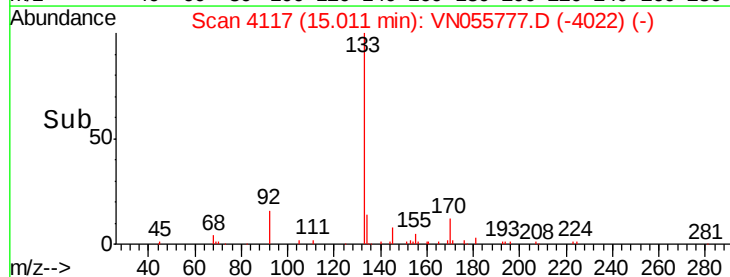
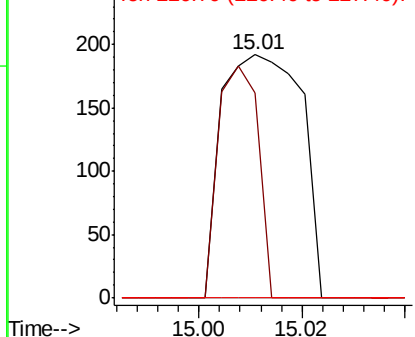


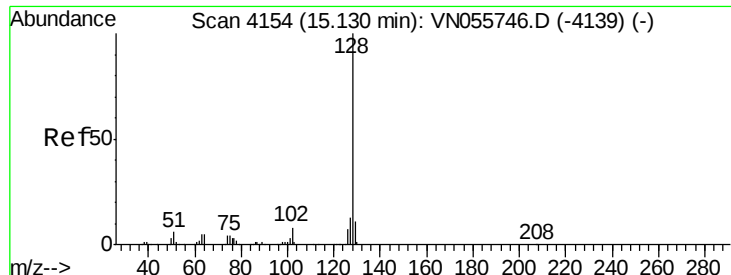
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN055777.D
 Acq: 24 May 2019 1:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	47.8	30.9	92.7
227	0.0	31.6	94.7#



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: 637.782 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055777.D
Acq: 24 May 2019 1:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 8918649
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 11.0 8.7 13.1

