

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071218\
 Data File : VN049779.D
 Acq On : 12 Jul 2018 19:44
 Operator : MD\SY
 Sample : J3762-09 MDL 0.2ppb
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 13 03:43:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1058645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1685548	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1454329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	552606	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	668016	54.24	ug/l	0.00
Spiked Amount			Recovery	=	108.48%	
35) Dibromofluoromethane	7.59	113	618984	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
50) Toluene-d8	10.09	98	1893454	43.54	ug/l	0.00
Spiked Amount			Recovery	=	87.08%	
62) 4-Bromofluorobenzene	12.40	95	574739	37.00	ug/l	0.00
Spiked Amount			Recovery	=	74.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	2696	Below Cal		97
3) Chloromethane	2.06	50	5740	Below Cal		93
4) Vinyl Chloride	2.18	62	3977	Below Cal		97
5) Bromomethane	2.57	94	5720	Below Cal		92
7) Trichlorofluoromethane	3.02	101	4705	0.234	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	3432	0.263	ug/l #	76
11) Tert butyl alcohol	4.81	59	191	0.232	ug/l #	72
13) Acrolein	3.61	56	1679	2.319	ug/l	89
14) Allyl chloride	4.33	41	4341	0.232	ug/l #	76
15) Acrylonitrile	5.00	53	2043	0.495	ug/l #	86
16) Acetone	3.82	43	5904	Below Cal		93
18) Methyl Acetate	4.34	43	14223	0.655	ug/l #	68
20) Methylene Chloride	4.55	84	6447	Below Cal	#	81
23) Vinyl Acetate	5.91	43	21105	0.821	ug/l	95
25) 2-Butanone	6.83	43	3385	0.705	ug/l #	85
26) 2,2-Dichloropropane	6.83	77	4465	0.223	ug/l #	74
29) Tetrahydrofuran	7.22	42	4222	1.401	ug/l #	54
30) Chloroform	7.38	83	5525	0.222	ug/l	95
31) Cyclohexane	7.67	56	22888	0.943	ug/l #	1
36) 1,1-Dichloropropene	7.79	75	4436	0.228	ug/l #	72
38) Carbon Tetrachloride	7.67	117	97382	4.796	ug/l #	16
42) 1,2-Dichloroethane	8.12	62	4010	0.211	ug/l	76
44) Trichloroethene	8.84	130	3428	0.219	ug/l	94
46) Dibromomethane	9.20	93	1977	0.213	ug/l #	50
48) Methyl methacrylate	9.21	41	2349	0.227	ug/l #	69
49) 1,4-Dioxane	9.21	88	495	3.656	ug/l #	40
51) 4-Methyl-2-Pentanone	9.99	43	8144	0.726	ug/l	94
55) 1,1,2-Trichloroethane	10.57	97	5034	Below Cal	#	62
57) 1,3-Dichloropropane	10.71	76	4503	0.203	ug/l #	71
58) 2-Chloroethyl Vinyl ether	9.70	63	5594	0.743	ug/l	91
59) 2-Hexanone	10.76	43	7256	0.973	ug/l	89
64) Tetrachloroethene	10.64	164	3103	0.235	ug/l	90
65) Chlorobenzene	11.44	112	8538	0.225	ug/l #	88
68) m/p-Xylenes	11.63	106	7763	0.333	ug/l	94

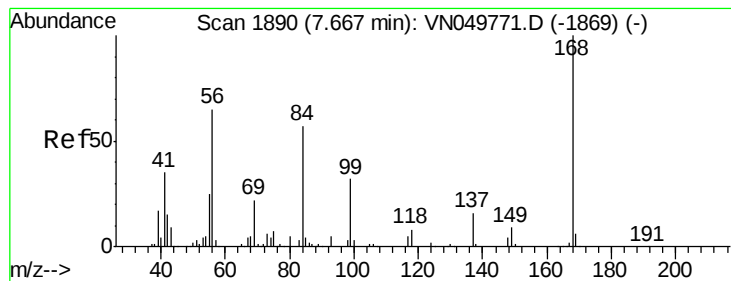
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071218\
 Data File : VN049779.D
 Acq On : 12 Jul 2018 19:44
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) 1,1,2,2-Tetrachloroethane	12.51	83	2870	Below Cal	#	93
76) 1,2,3-Trichloropropane	12.40	75	282056	28.731	ug/l #	100
77) Bromobenzene	12.53	156	3398	0.279	ug/l	95
78) n-propylbenzene	12.59	91	10676	0.206	ug/l	100
79) 2-Chlorotoluene	12.68	91	7125	0.225	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	7579	0.208	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	282056	92.784	ug/l #	13
82) 4-Chlorotoluene	12.78	91	7019	0.223	ug/l	99
83) tert-Butylbenzene	12.99	119	6857	0.210	ug/l	96
87) 1,3-Dichlorobenzene	13.29	146	4984	0.236	ug/l	89
88) 1,4-Dichlorobenzene	13.29	146	4984	0.243	ug/l	90
90) Hexachloroethane	13.88	117	2299	Below Cal		63
91) 1,2-Dichlorobenzene	13.66	146	4692	0.228	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.27	75	228	Below Cal	#	56
93) 1,2,4-Trichlorobenzene	14.91	180	2296	3.081	ug/l	94
94) Hexachlorobutadiene	15.01	225	1280	Below Cal		79
95) Naphthalene	15.14	128	5068	4.216	ug/l	96
96) 1,2,3-Trichlorobenzene	15.32	180	2683	0.268	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

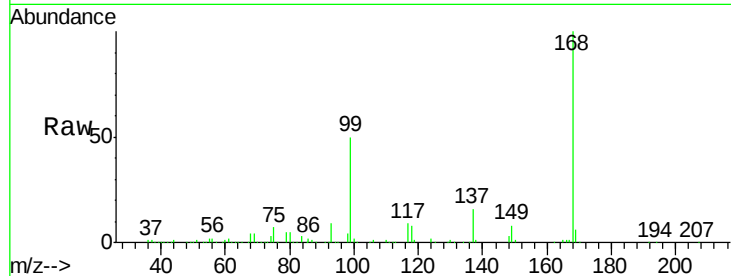
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1058645

Ion Ratio Lower Upper

168 100

99 49.5 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

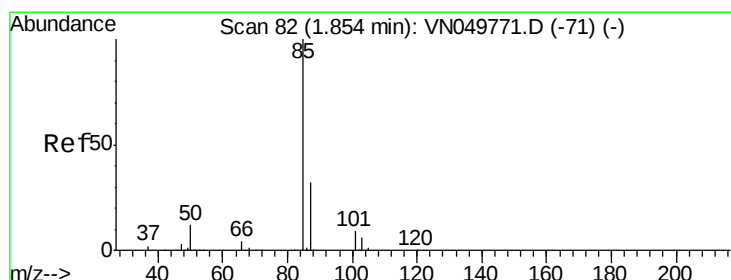
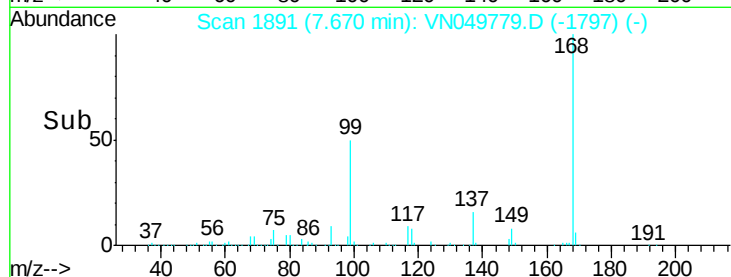
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049779.D

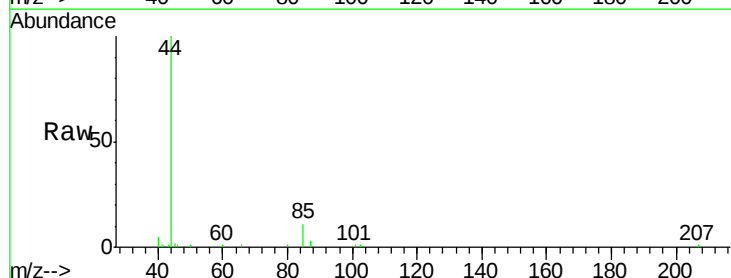
Acq: 12 Jul 2018 19:44

Tgt Ion: 85 Resp: 2696

Ion Ratio Lower Upper

85 100

87 32.3 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

2500

2000

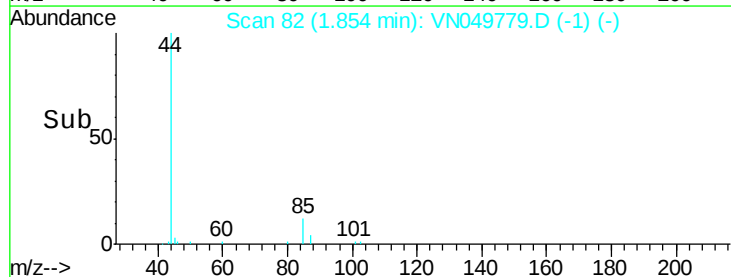
1500

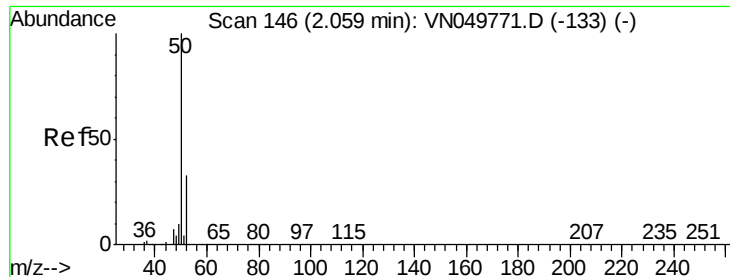
1000

500

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

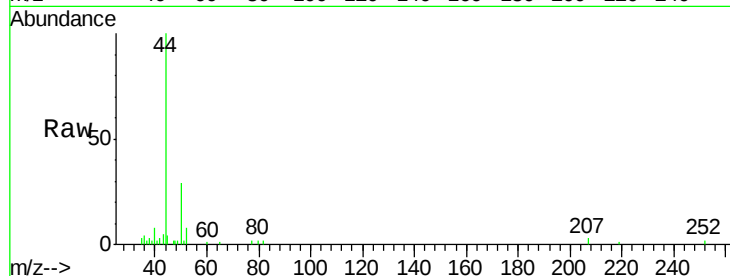
ClientSampleId :

Tot Ion: 50 Resp: 5740

Ion Ratio Lower Upper

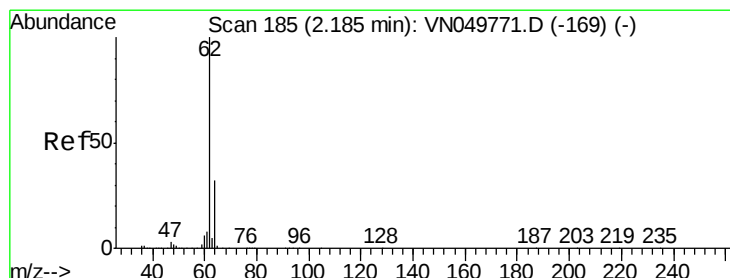
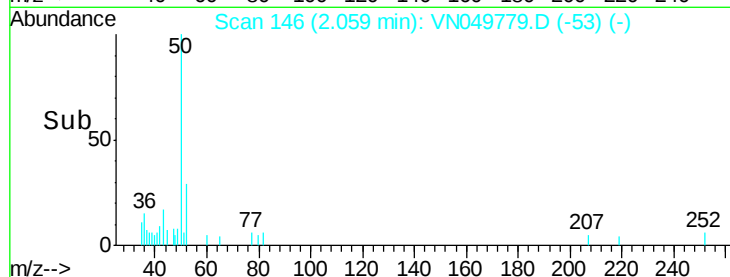
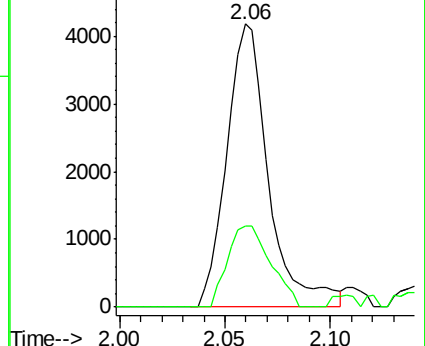
50 100

52 28.8 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: Below Cal

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049779.D

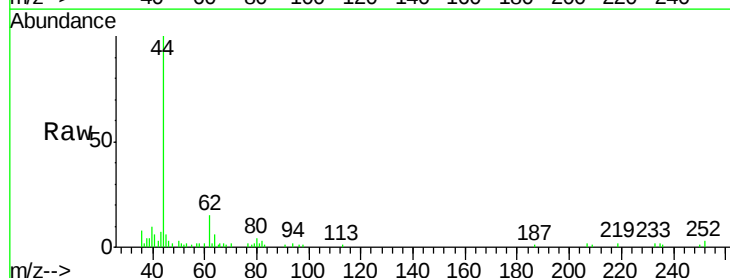
Acq: 12 Jul 2018 19:44

Tgt Ion: 62 Resp: 3977

Ion Ratio Lower Upper

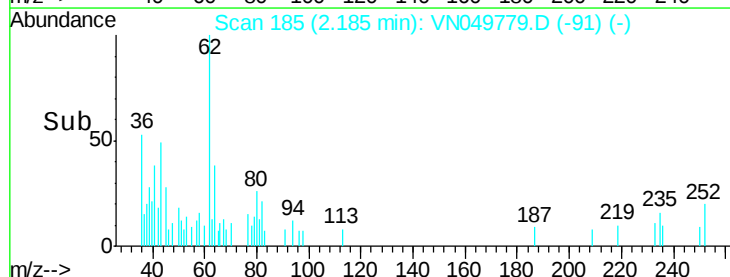
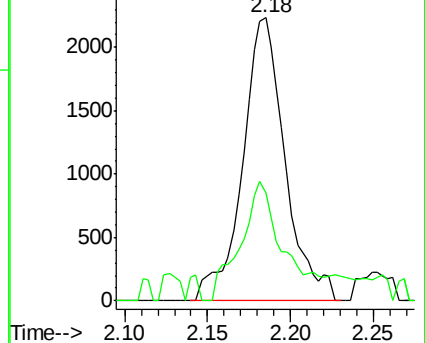
62 100

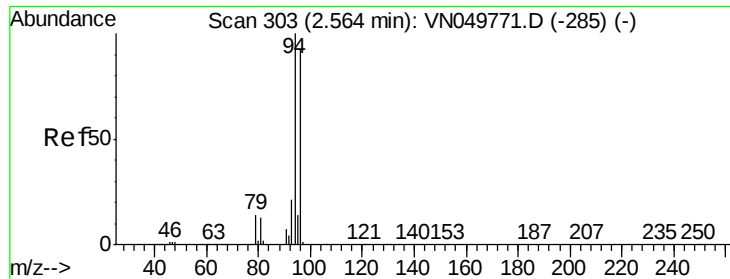
64 29.9 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

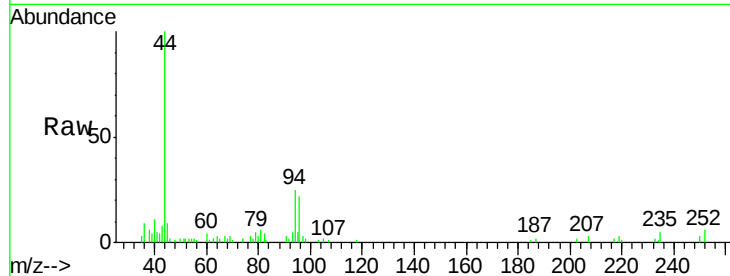
ClientSampled :

Tot Ion: 94 Resp: 5720

Ion Ratio Lower Upper

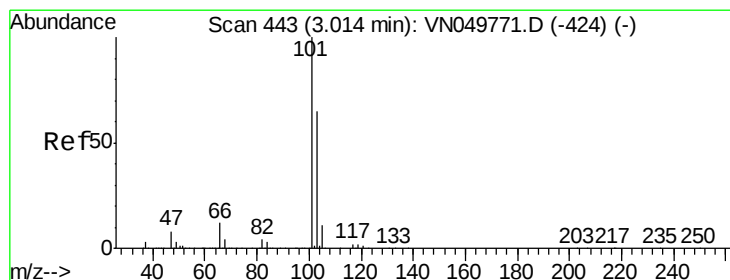
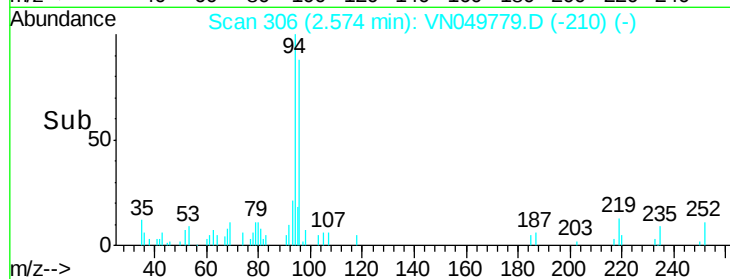
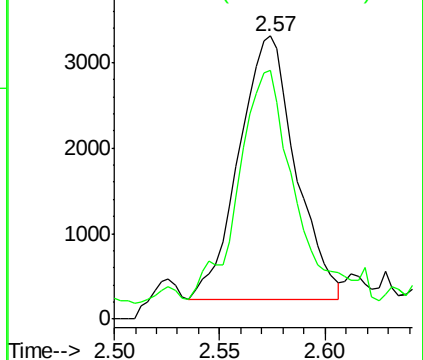
94 100

96 87.2 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#7

Trichlorofluoromethane

Concen: 0.234 ug/l

RT: 3.02 min Scan# 444

Delta R.T. 0.00 min

Lab File: VN049779.D

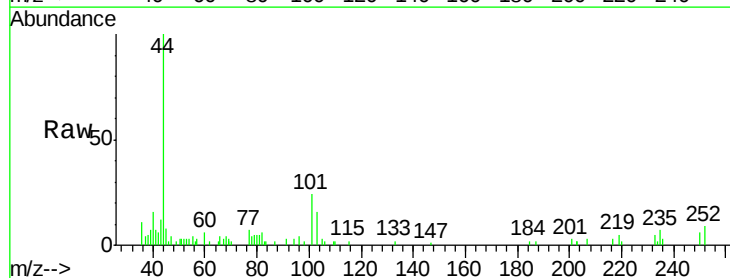
Acq: 12 Jul 2018 19:44

Tgt Ion: 101 Resp: 4705

Ion Ratio Lower Upper

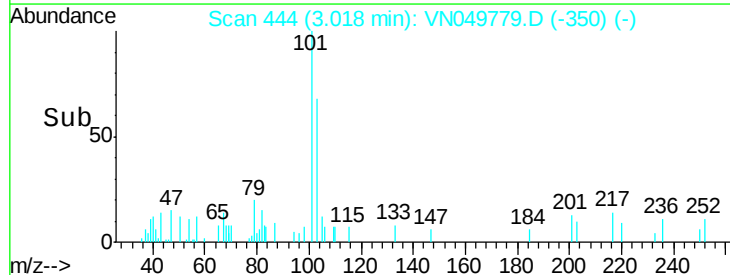
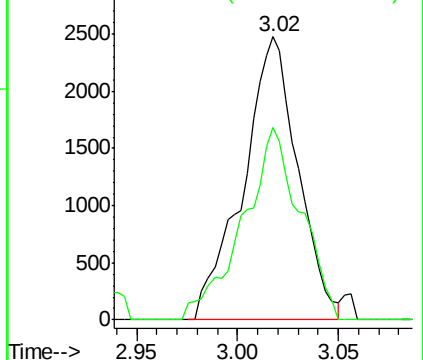
101 100

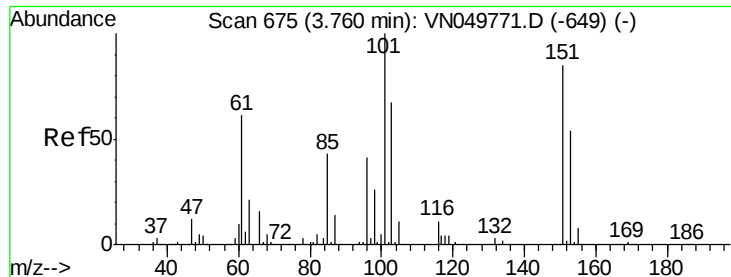
103 68.1 52.8 79.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.263 ug/l

RT: 3.76 min Scan# 676

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampleId :

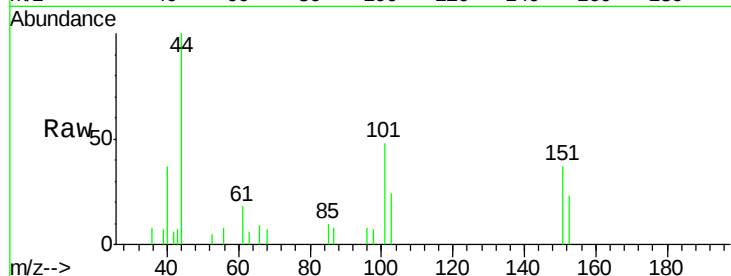
Tot Ion:101 Resp: 3432

Ion Ratio Lower Upper

101 100

85 12.9 34.4 51.6#

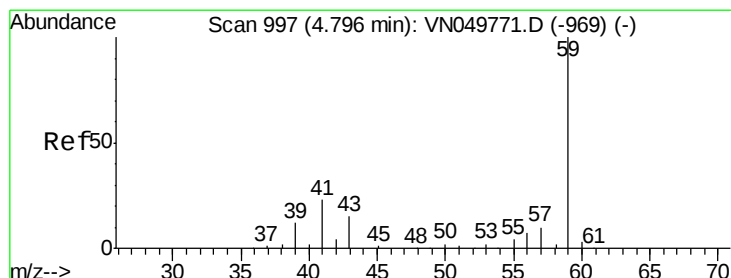
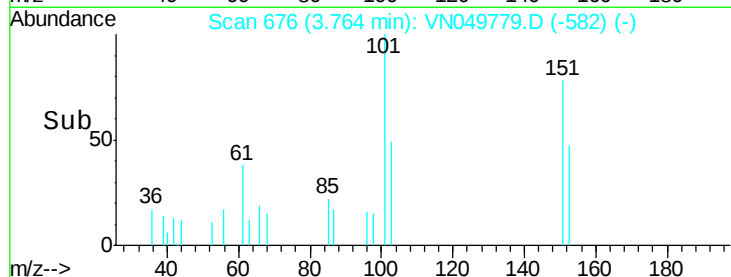
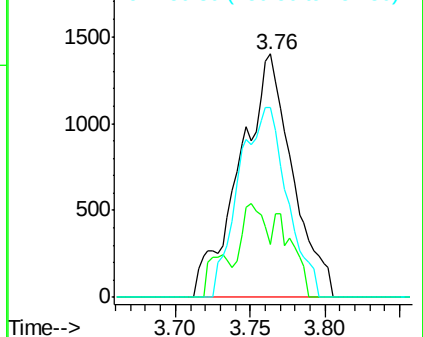
151 71.4 66.2 99.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.232 ug/l

RT: 4.81 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN049779.D

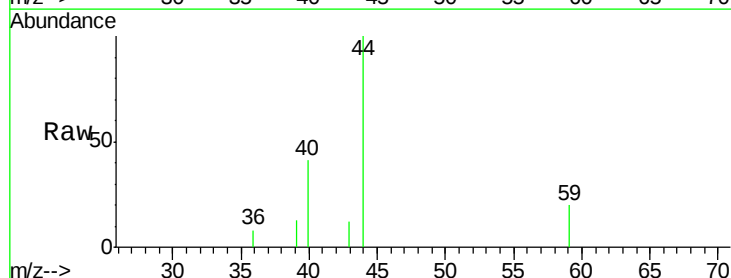
Acq: 12 Jul 2018 19:44

Tgt Ion: 59 Resp: 191

Ion Ratio Lower Upper

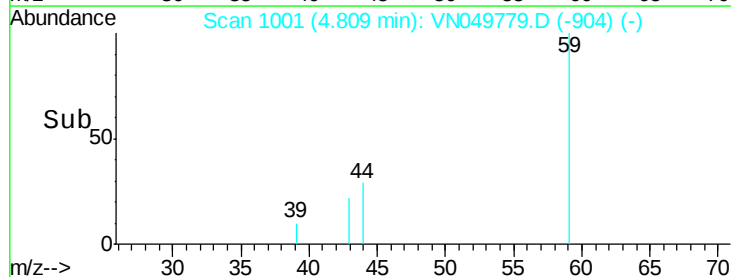
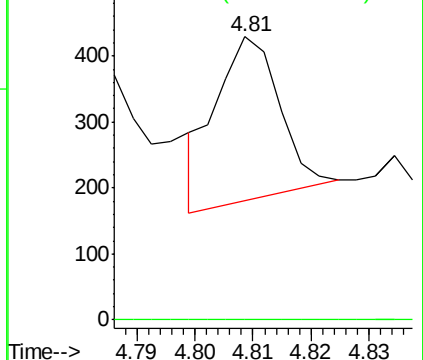
59 100

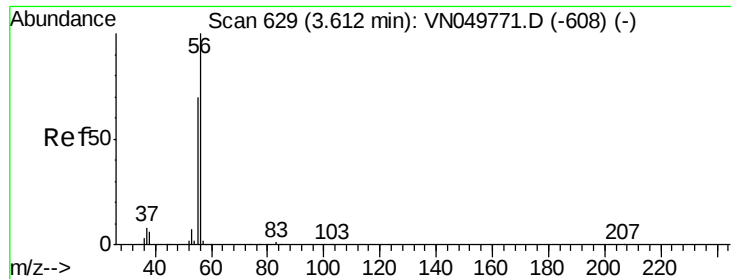
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 2.319 ug/l

RT: 3.61 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

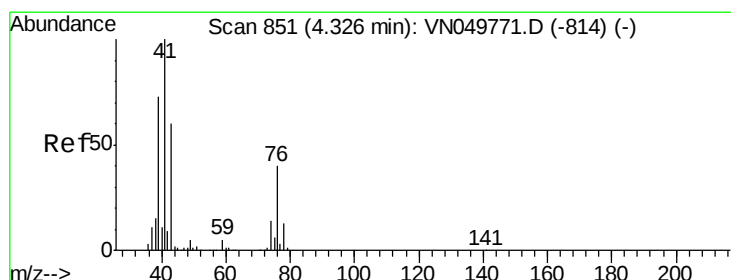
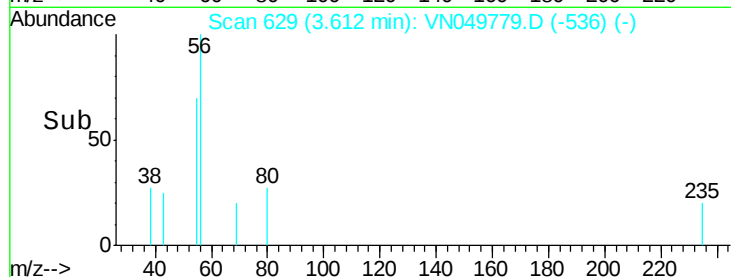
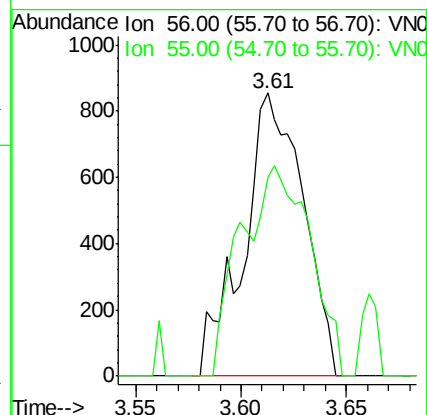
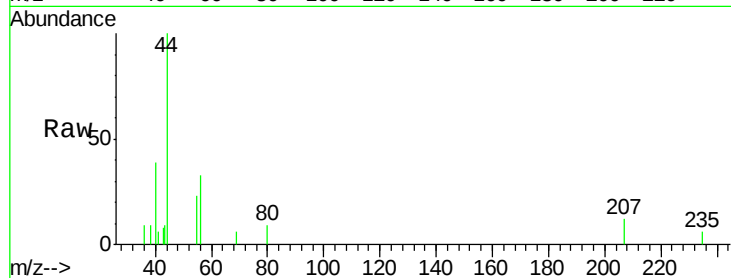
ClientSampleId :

Tot Ion: 56 Resp: 1679

Ion Ratio Lower Upper

56 100

55 60.9 55.8 83.8



#14

Allyl chloride

Concen: 0.232 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

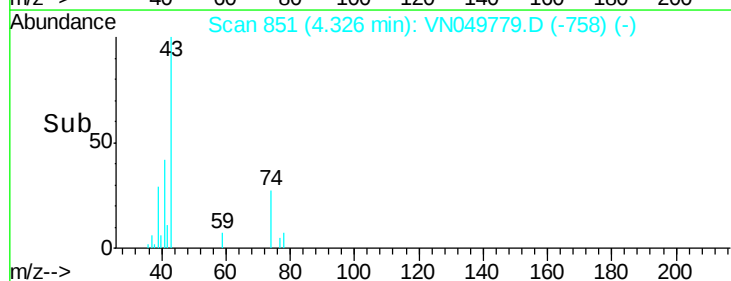
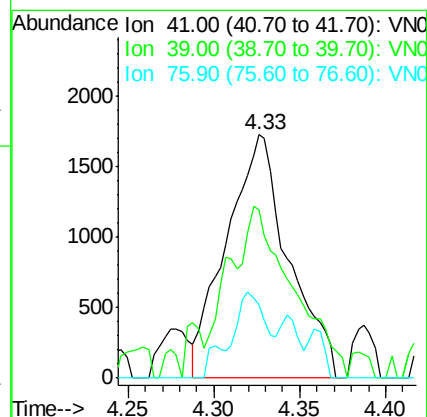
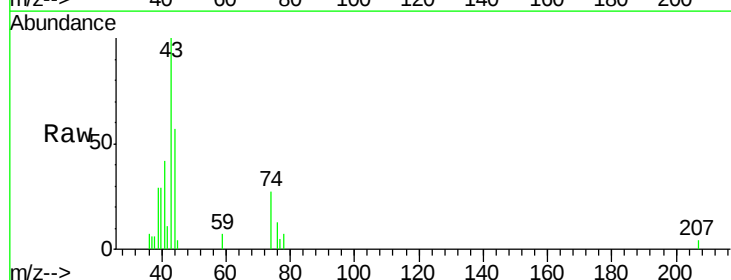
Tgt Ion: 41 Resp: 4341

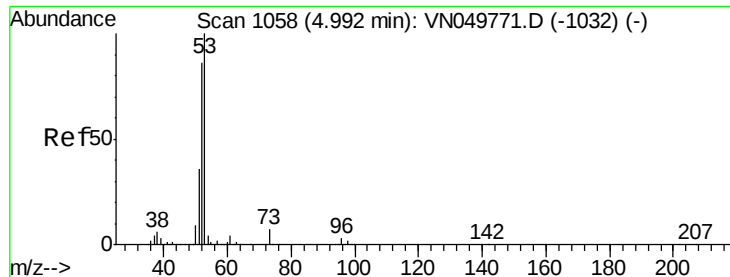
Ion Ratio Lower Upper

41 100

39 55.6 53.2 79.8

76 11.2 29.0 43.6#

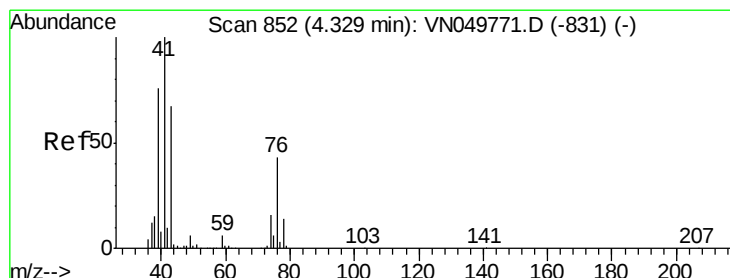
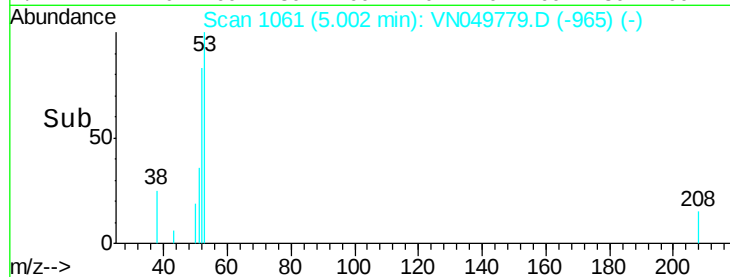
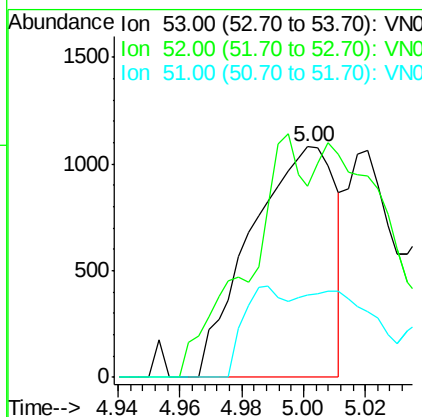
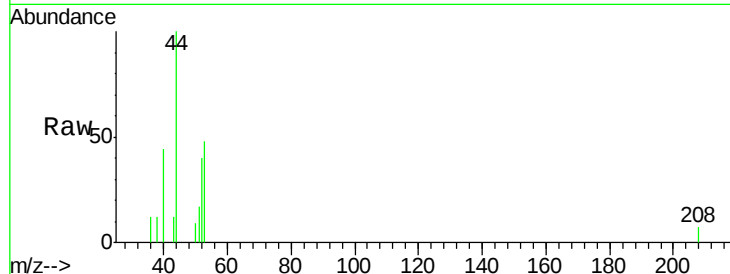




#15
 Acrylonitrile
 Concen: 0.495 ug/l
 RT: 5.00 min Scan# 1061
 Delta R.T. 0.01 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

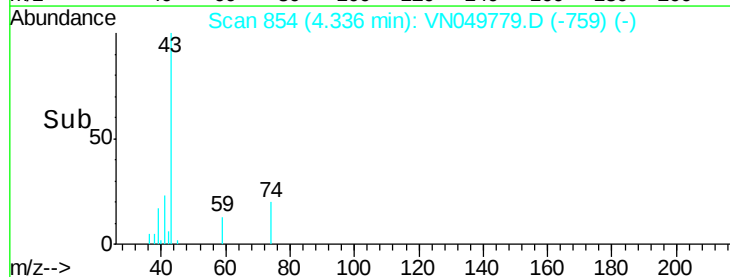
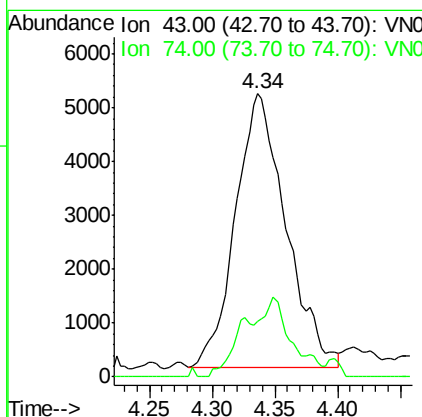
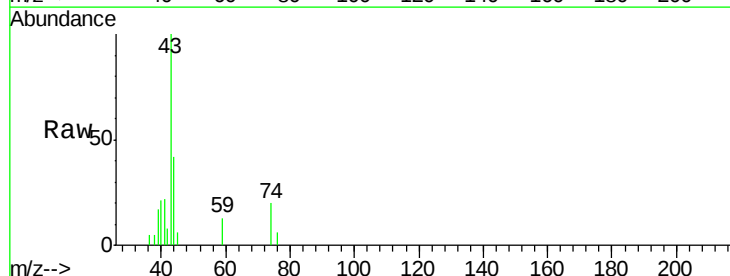
Instrument :
 MSVOA_N
 ClientSampled :

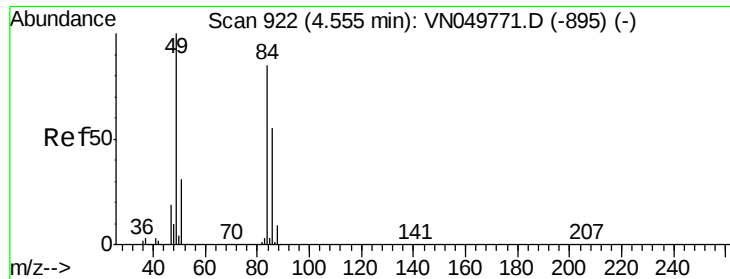
Tot Ion: 53 Resp: 2043
 Ion Ratio Lower Upper
 53 100
 52 73.4 64.8 97.2
 51 20.3 28.9 43.3#



#18
 Methyl Acetate
 Concen: 0.655 ug/l
 RT: 4.34 min Scan# 854
 Delta R.T. 0.01 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion: 43 Resp: 14223
 Ion Ratio Lower Upper
 43 100
 74 9.0 19.8 29.8#

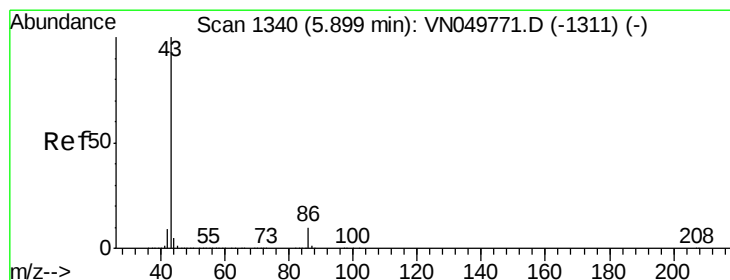
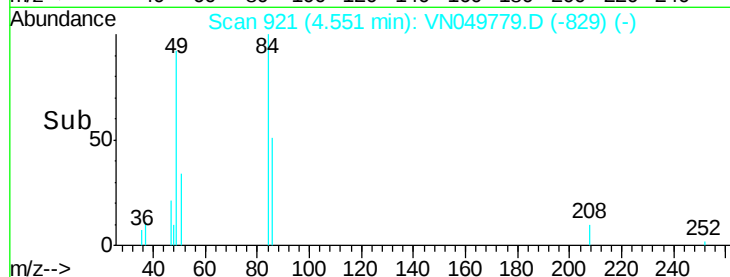
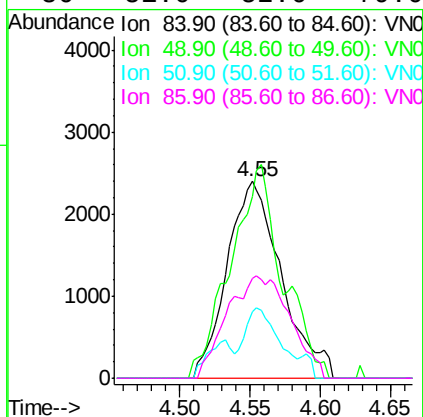
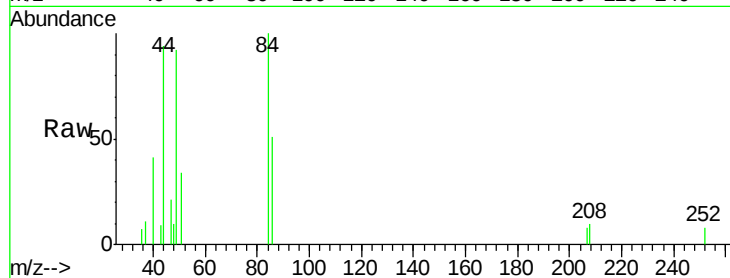




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

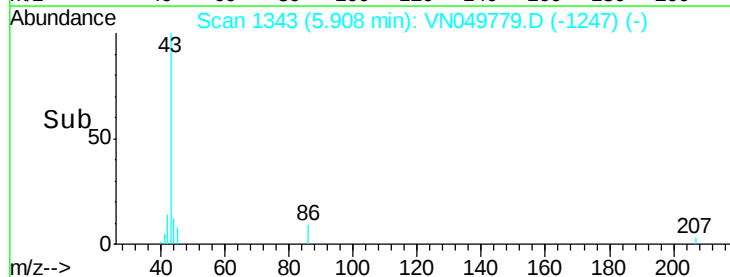
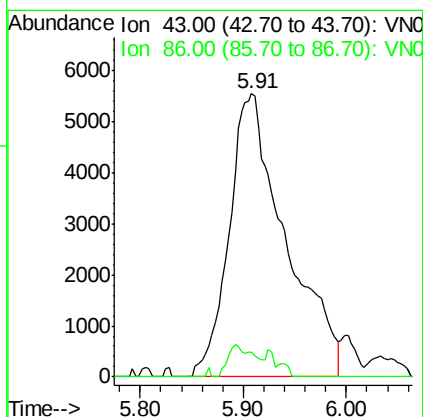
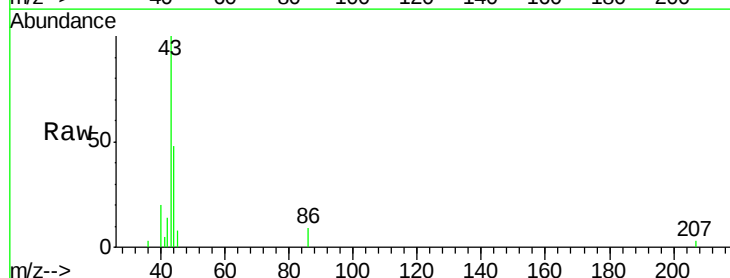
Instrument :
MSVOA_N
ClientSampleId :

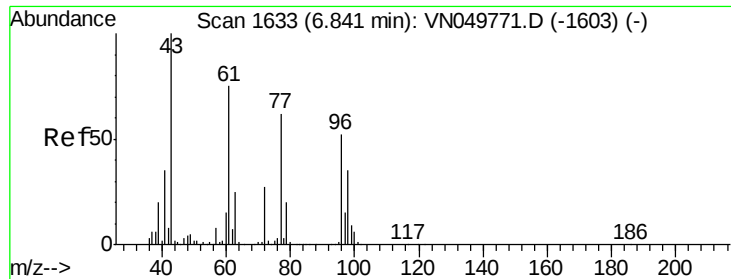
Tot Ion: 84 Resp: 6447
Ion Ratio Lower Upper
84 100
49 92.4 95.4 143.2#
51 33.7 28.4 42.6
86 51.0 52.6 79.0#



#23
Vinyl Acetate
Concen: 0.821 ug/l
RT: 5.91 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion: 43 Resp: 21105
Ion Ratio Lower Upper
43 100
86 8.6 8.4 12.6





#25

2-Butanone

Concen: 0.705 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. -0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

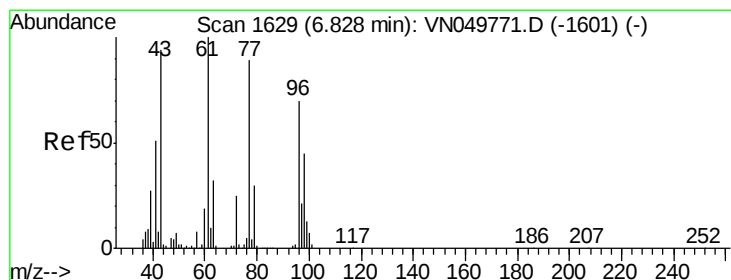
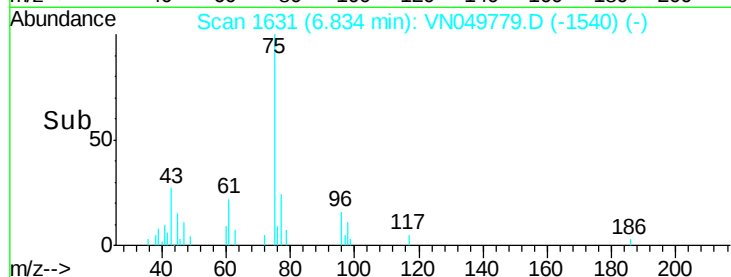
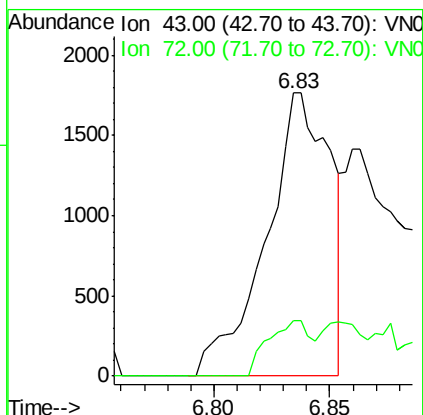
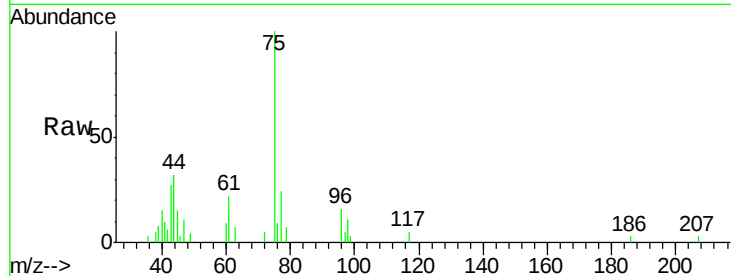
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 3385

Ion Ratio Lower Upper

43 100

72 19.7 22.1 33.1#



#26

2,2-Dichloropropane

Concen: 0.223 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN049779.D

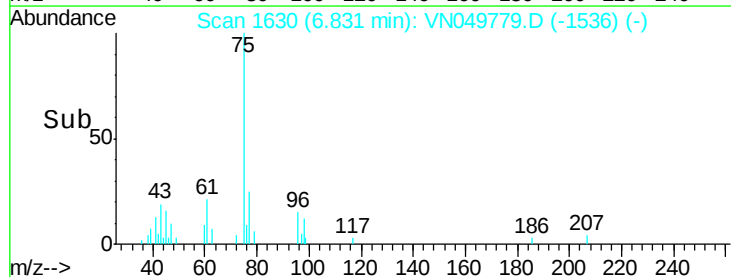
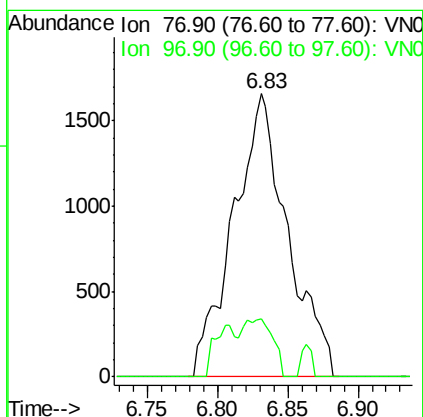
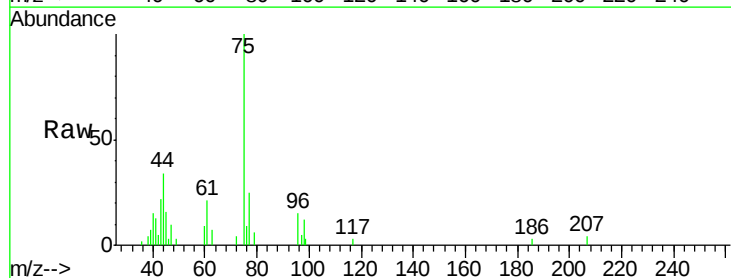
Acq: 12 Jul 2018 19:44

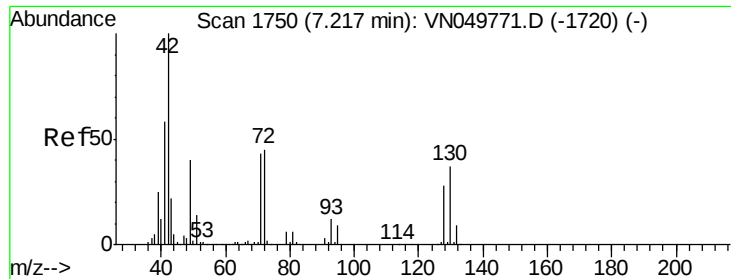
Tgt Ion: 77 Resp: 4465

Ion Ratio Lower Upper

77 100

97 11.1 11.9 35.5#

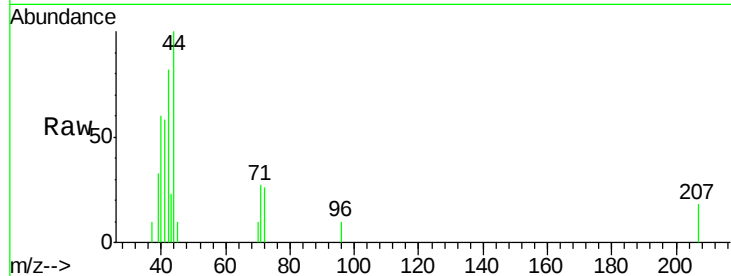




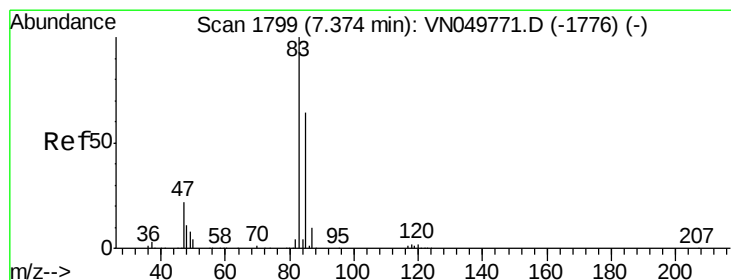
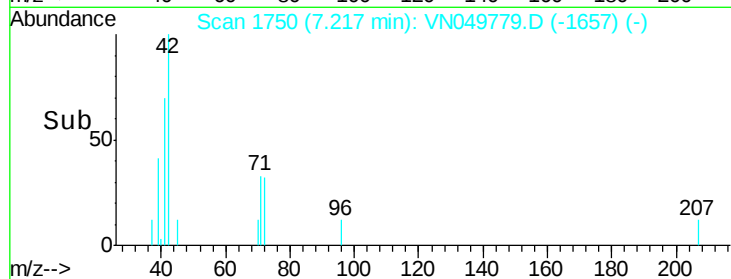
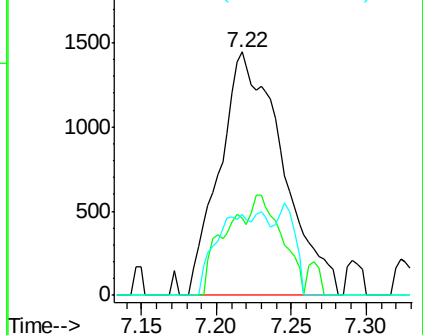
#29
Tetrahydrofuran
Concen: 1.401 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 42 Resp: 4222
Ion Ratio Lower Upper
42 100
72 15.6 35.6 53.4#
71 12.8 34.0 51.0#

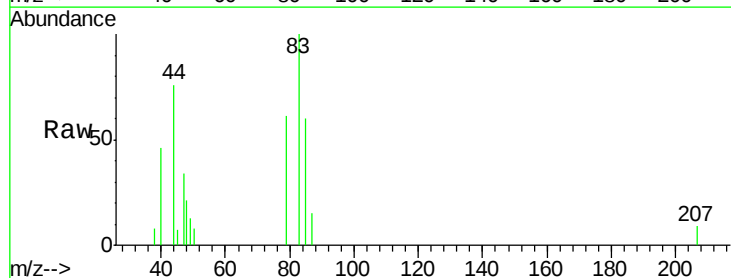


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

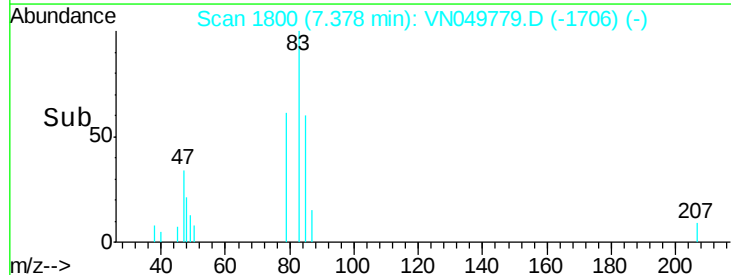
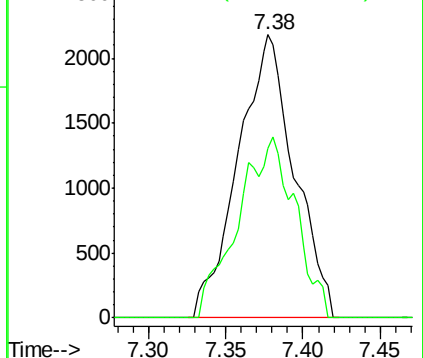


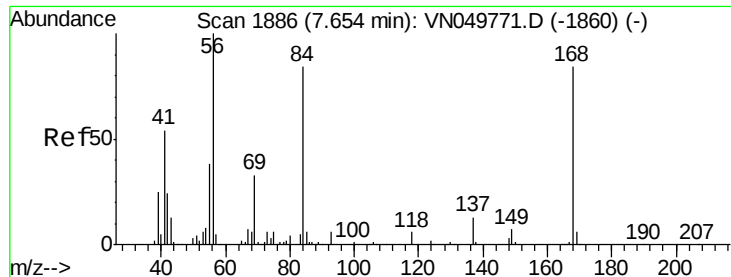
#30
Chloroform
Concen: 0.222 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion: 83 Resp: 5525
Ion Ratio Lower Upper
83 100
85 60.1 51.4 77.2



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0

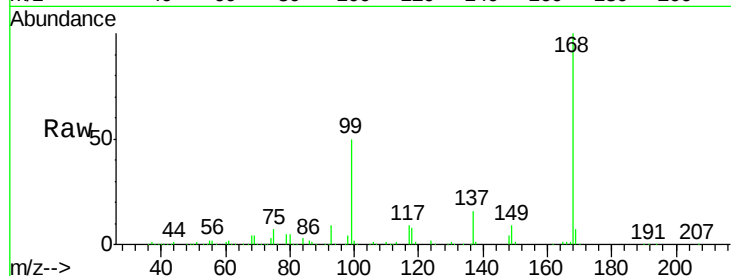




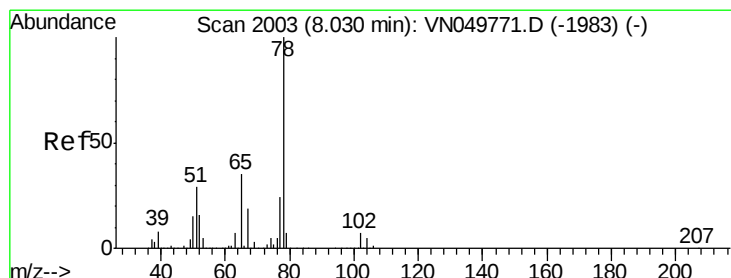
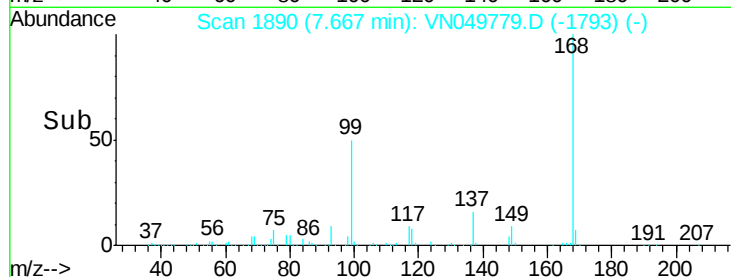
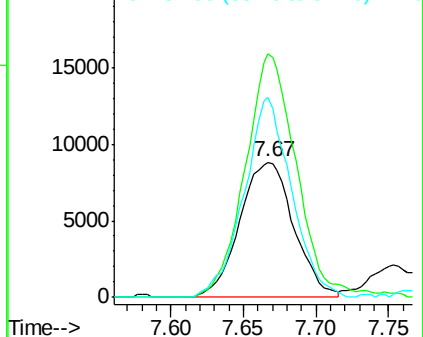
#31
Cyclohexane
Concen: 0.943 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 22888
Ion Ratio Lower Upper
56 100
69 180.5 26.6 40.0#
84 148.3 69.0 103.6#

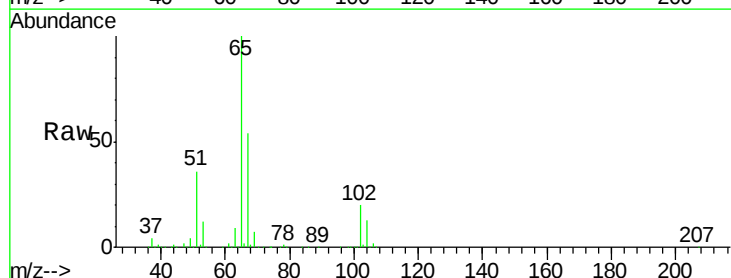


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

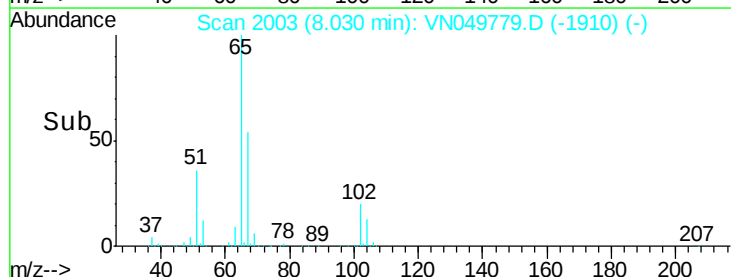
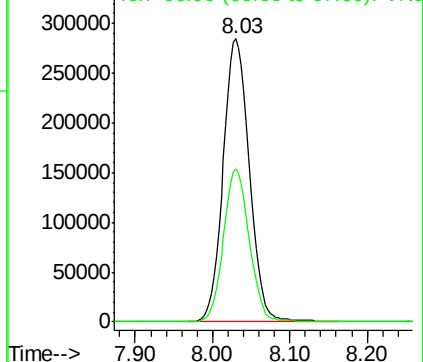


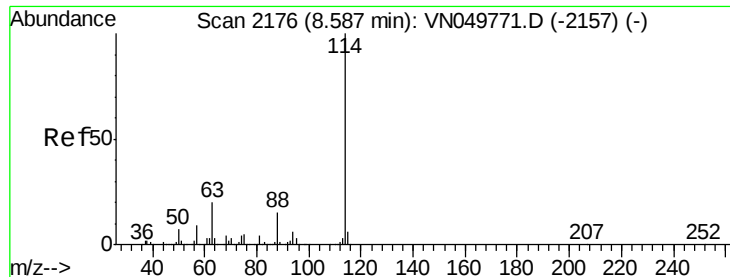
#33
1,2-Dichloroethane-d4
Concen: 54.244 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion: 65 Resp: 668016
Ion Ratio Lower Upper
65 100
67 53.1 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

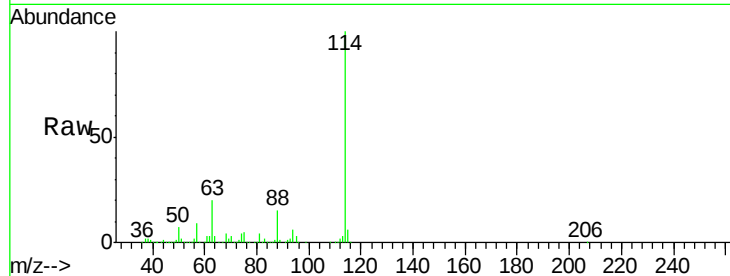




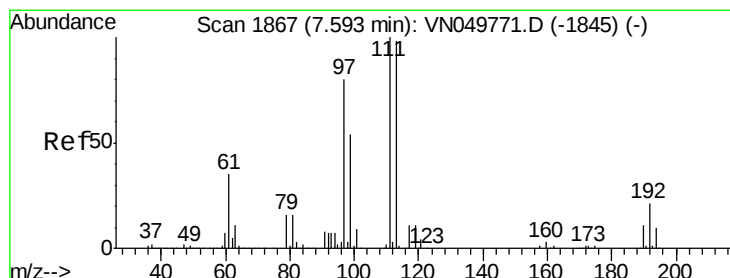
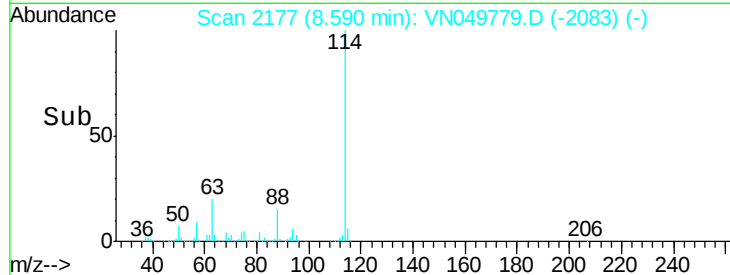
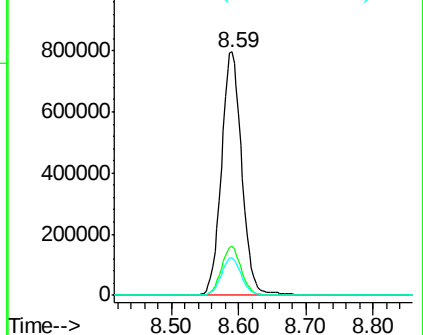
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1685548
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.8
 88 15.3 0.0 30.6

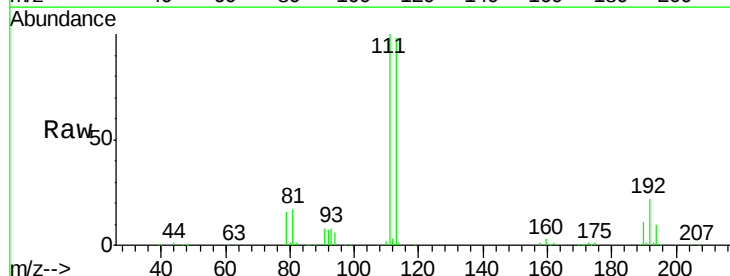


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

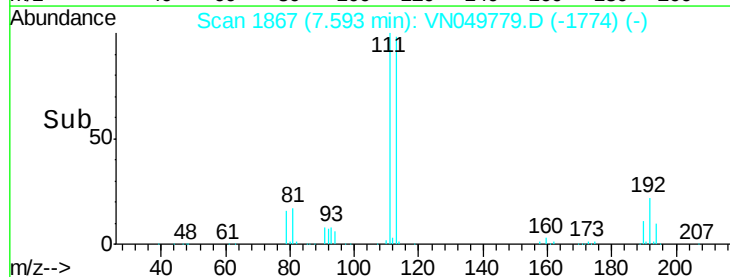
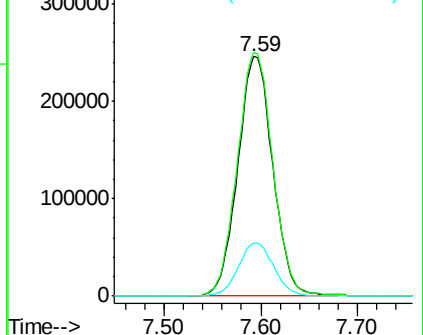


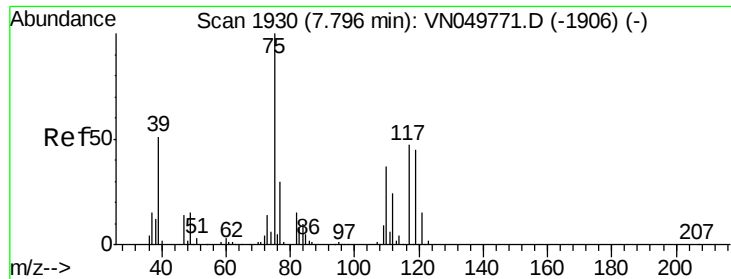
#35
 Dibromofluoromethane
 Concen: 48.718 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion:113 Resp: 618984
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.8 122.8
 192 22.3 17.8 26.6



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

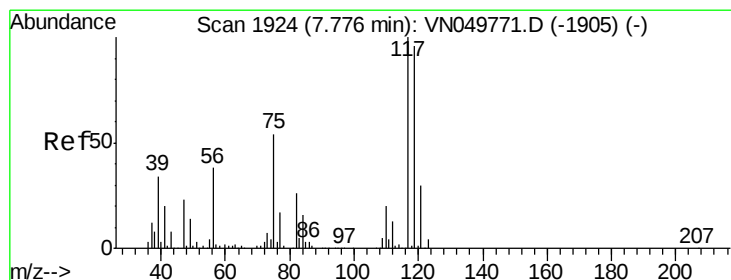
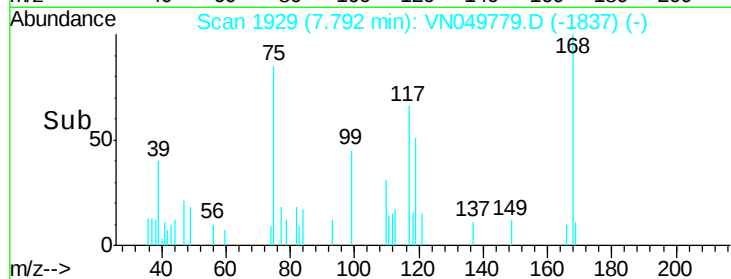
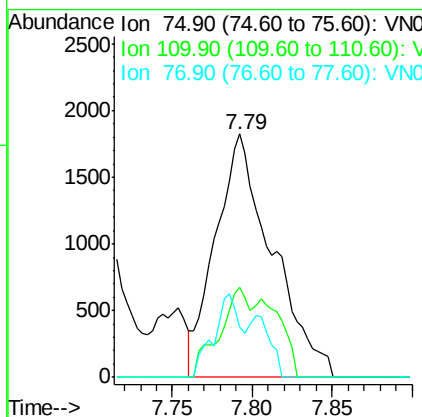
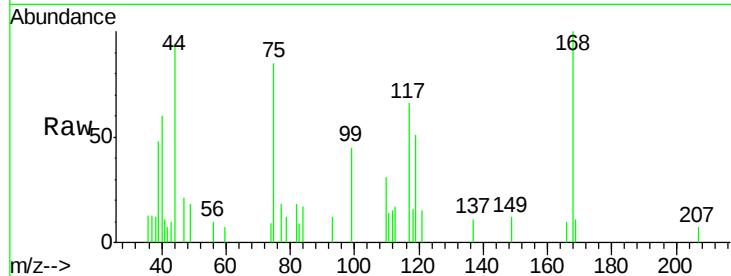




#36
 1,1-Dichloropropene
 Concen: 0.228 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

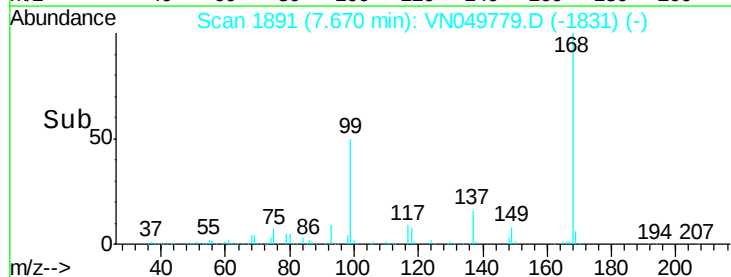
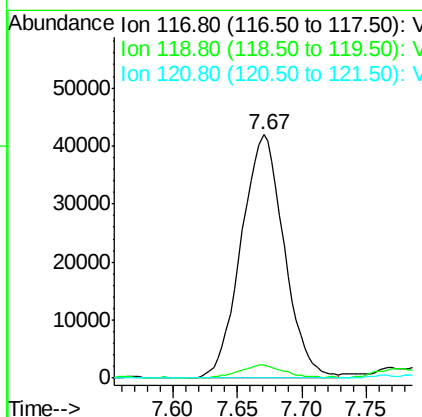
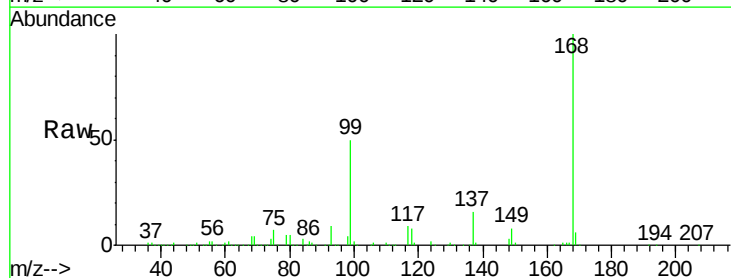
Instrument :
 MSVOA_N
 ClientSampleId :

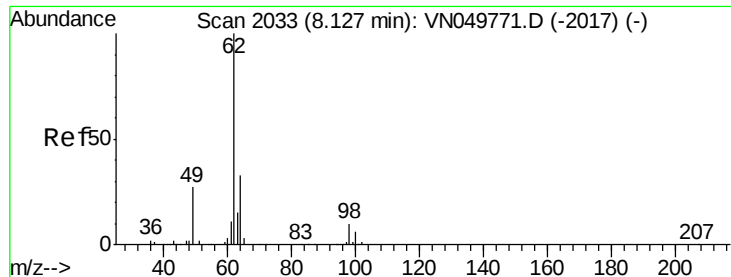
Tot Ion: 75 Resp: 4436
 Ion Ratio Lower Upper
 75 100
 110 19.5 18.1 54.4
 77 16.4 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 4.796 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion: 117 Resp: 97382
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.2 115.8#
 121 0.0 25.0 37.6#





#42

1,2-Dichloroethane

Concen: 0.211 ug/l

RT: 8.12 min Scan# 2032

Delta R.T. -0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

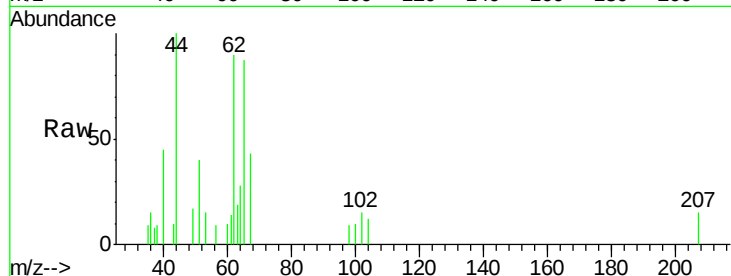
ClientSampleId :

Tot Ion: 62 Resp: 4010

Ion Ratio Lower Upper

62 100

98 0.8 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VN049779.D (-1940) (-)

Ion 97.90 (97.60 to 98.60): VN049779.D (-1940) (-)

8.12

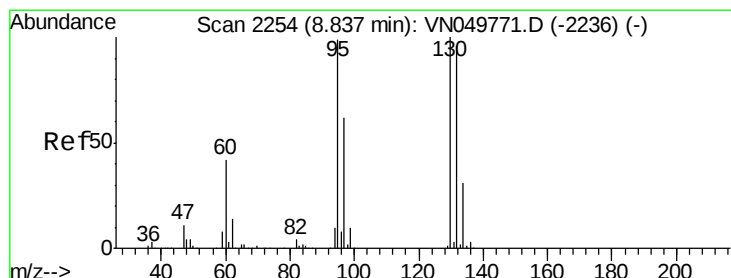
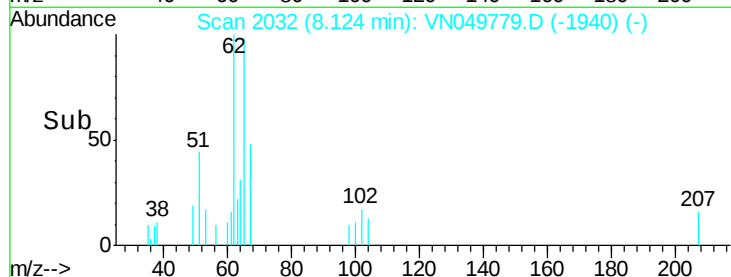
1500

1000

500

0

Time--> 8.05 8.10 8.15 8.20



#44

Trichloroethene

Concen: 0.219 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. 0.00 min

Lab File: VN049779.D

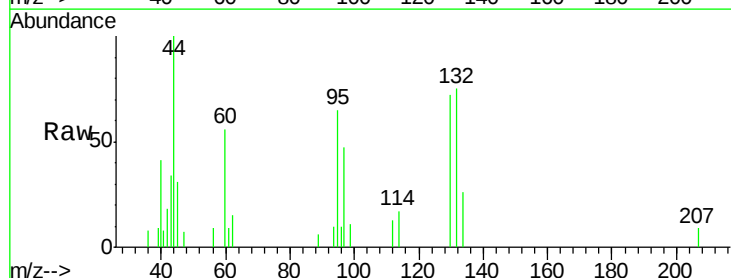
Acq: 12 Jul 2018 19:44

Tgt Ion: 130 Resp: 3428

Ion Ratio Lower Upper

130 100

95 90.6 0.0 192.8



Abundance Ion 129.80 (129.50 to 130.50): VN049779.D (-2161) (-)

Ion 94.90 (94.60 to 95.60): VN049779.D (-2161) (-)

8.84

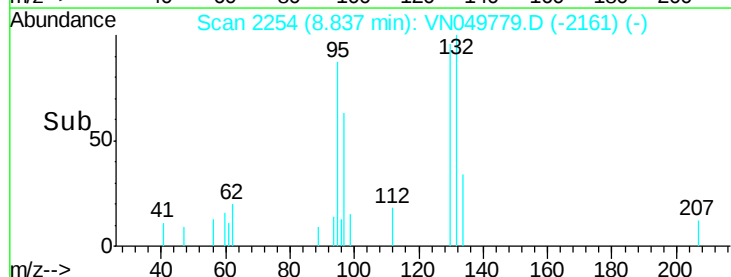
1500

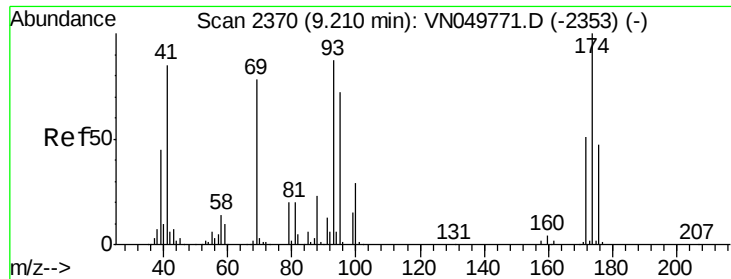
1000

500

0

Time--> 8.80 8.85 8.90





#46

Dibromomethane

Concen: 0.213 ug/l

RT: 9.20 min Scan# 2368

Delta R.T. -0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampled :

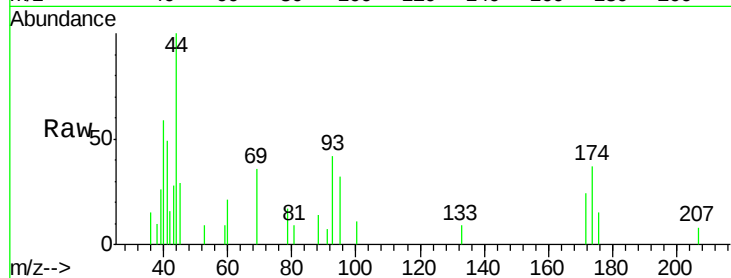
Tot Ion: 93 Resp: 1977

Ion Ratio Lower Upper

93 100

95 0.0 67.9 101.9#

174 93.8 89.4 134.0

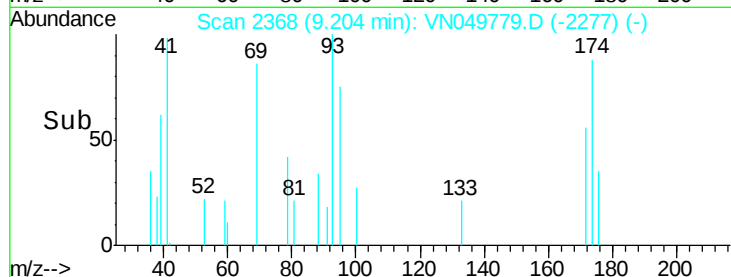


Abundance Ion 92.80 (92.50 to 93.50): VN049779.D (-2277) (-)

Ion 94.80 (94.50 to 95.50): VN049779.D (-2277) (-)

Ion 173.70 (173.40 to 174.40): VN049779.D (-2277) (-)

Time-->

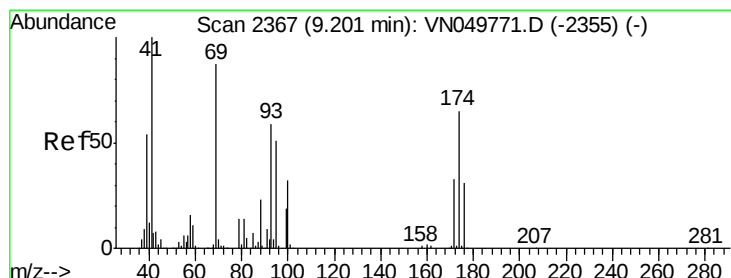


Abundance Ion 92.80 (92.50 to 93.50): VN049779.D (-2277) (-)

Ion 94.80 (94.50 to 95.50): VN049779.D (-2277) (-)

Ion 173.70 (173.40 to 174.40): VN049779.D (-2277) (-)

Time-->



#48

Methyl methacrylate

Concen: 0.227 ug/l

RT: 9.21 min Scan# 2369

Delta R.T. 0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

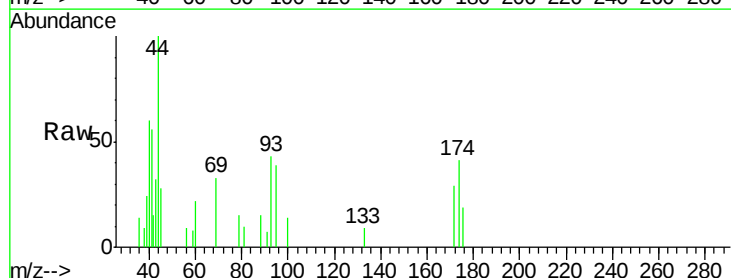
Tgt Ion: 41 Resp: 2349

Ion Ratio Lower Upper

41 100

69 44.0 71.5 107.3#

39 58.0 44.7 67.1

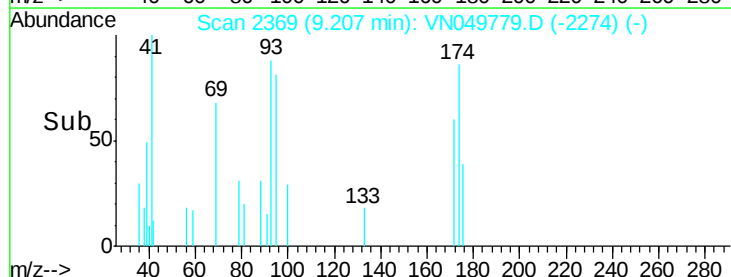


Abundance Ion 41.00 (40.70 to 41.70): VN049779.D (-2274) (-)

Ion 69.00 (68.70 to 69.70): VN049779.D (-2274) (-)

Ion 39.00 (38.70 to 39.70): VN049779.D (-2274) (-)

Time-->

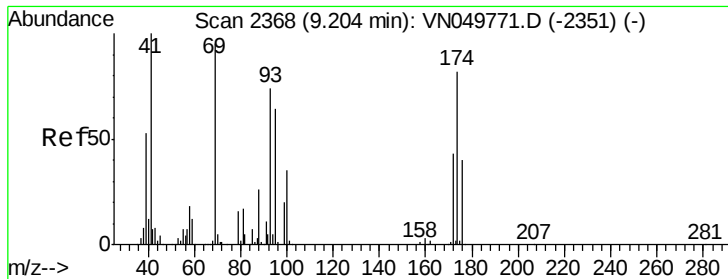


Abundance Ion 41.00 (40.70 to 41.70): VN049779.D (-2274) (-)

Ion 69.00 (68.70 to 69.70): VN049779.D (-2274) (-)

Ion 39.00 (38.70 to 39.70): VN049779.D (-2274) (-)

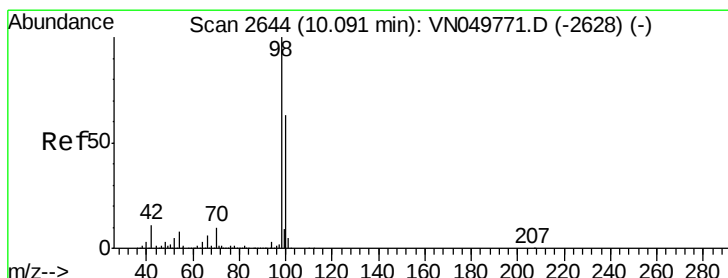
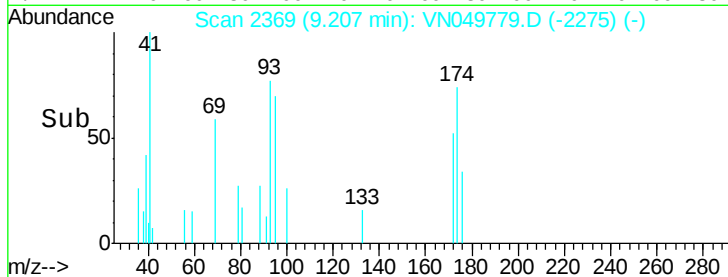
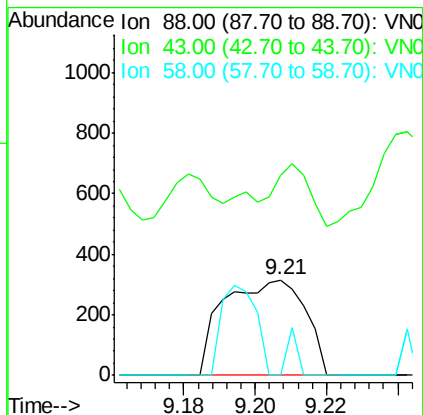
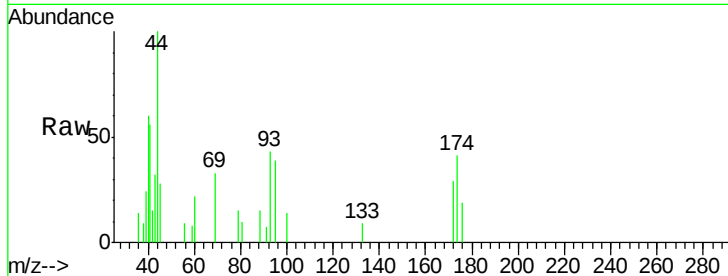
Time-->



#49
1,4-Dioxane
Concen: 3.656 ug/l
RT: 9.21 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

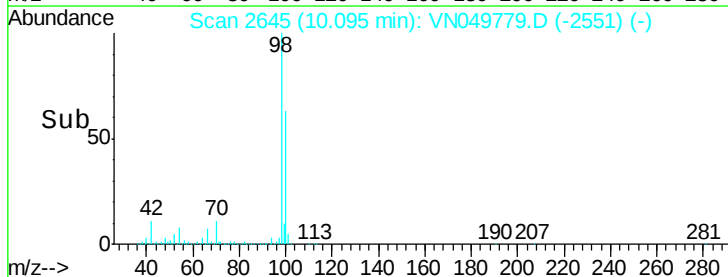
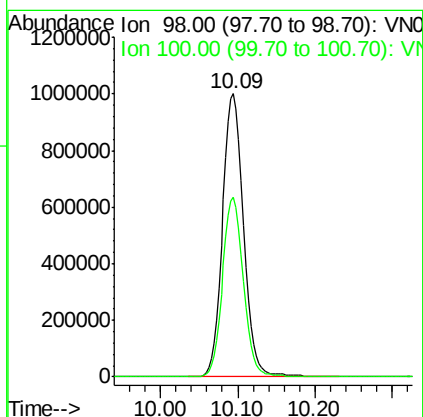
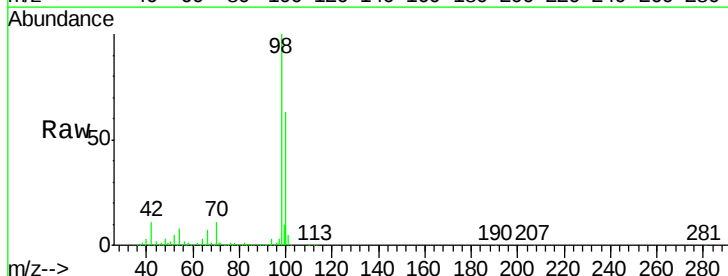
Instrument :
MSVOA_N
ClientSampled :

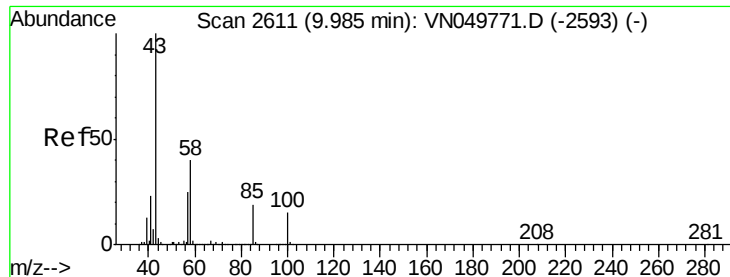
Tot Ion: 88 Resp: 495
Ion Ratio Lower Upper
88 100
43 46.9 25.1 37.7#
58 6.1 52.5 78.7#



#50
Toluene-d8
Concen: 43.537 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion: 98 Resp: 1893454
Ion Ratio Lower Upper
98 100
100 62.8 51.7 77.5

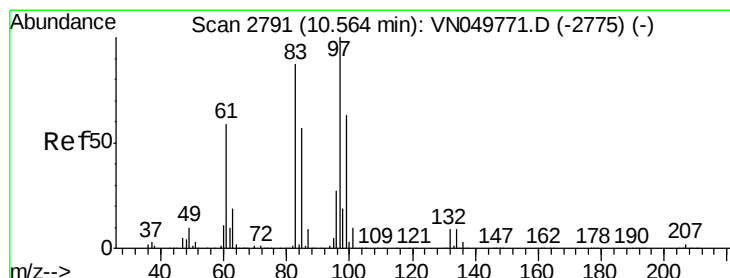
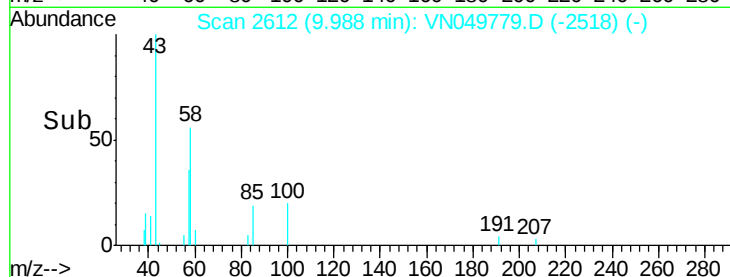
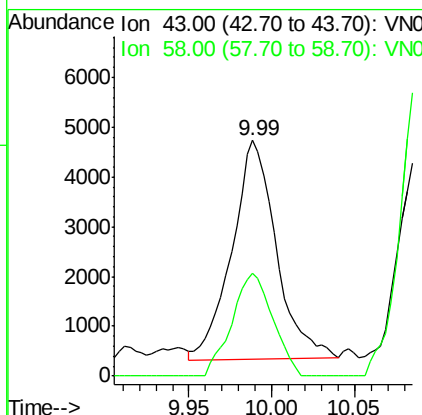
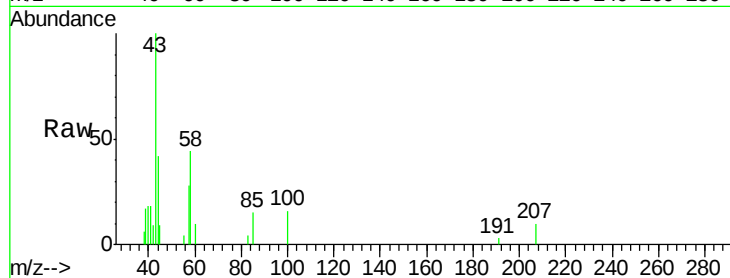




#51
4-Methyl-2-Pentanone
Concen: 0.726 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

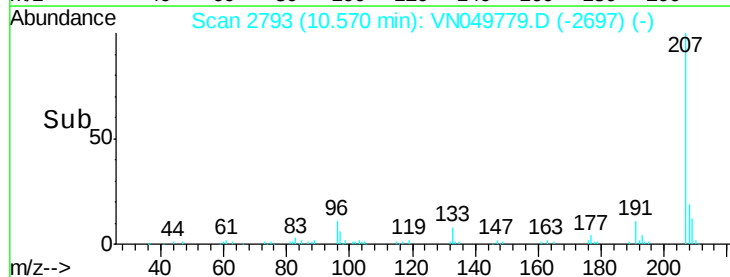
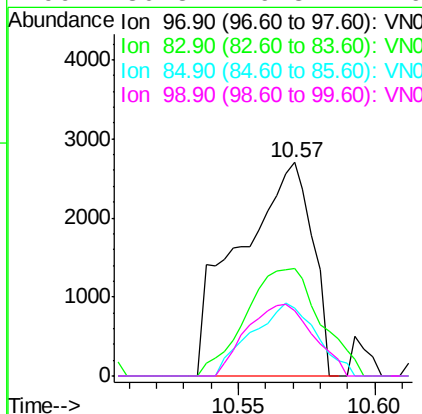
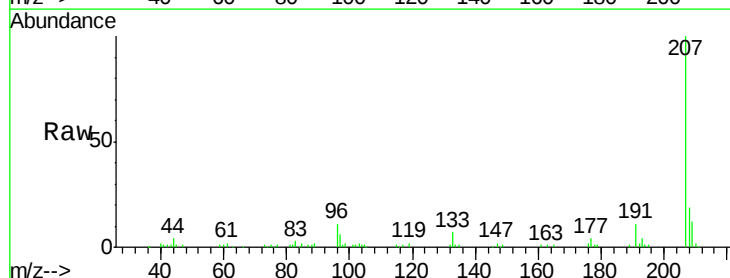
Instrument :
MSVOA_N
ClientSampled :

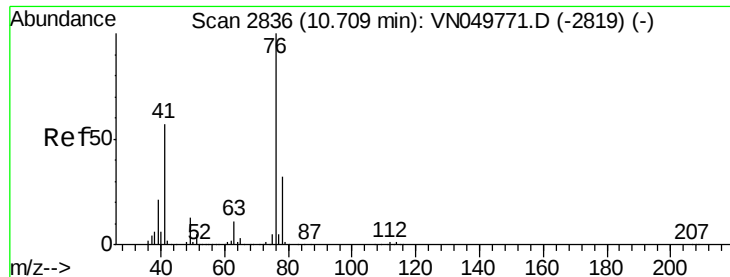
Tot Ion: 43 Resp: 8144
Ion Ratio Lower Upper
43 100
58 43.2 31.8 47.8



#55
1,1,2-Trichloroethane
Concen: Below Cal
RT: 10.57 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion: 97 Resp: 5034
Ion Ratio Lower Upper
97 100
83 50.3 69.0 103.6#
85 31.5 44.9 67.3#
99 30.8 49.8 74.6#





#57

1,3-Dichloropropane

Concen: 0.203 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

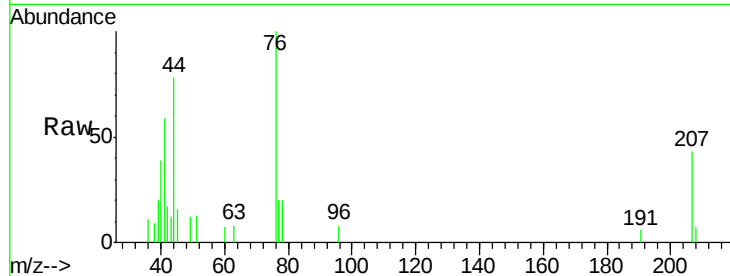
ClientSampled :

Tot Ion: 76 Resp: 4503

Ion Ratio Lower Upper

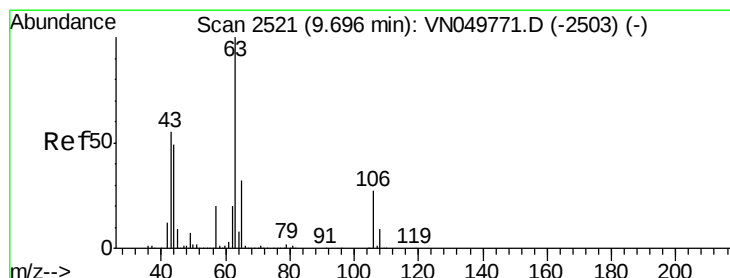
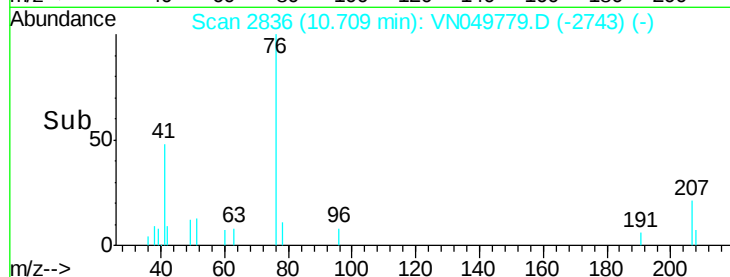
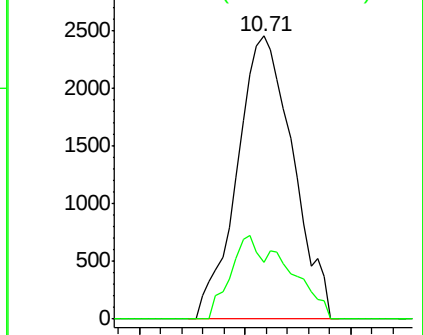
76 100

78 16.3 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 0.743 ug/l

RT: 9.70 min Scan# 2522

Delta R.T. 0.00 min

Lab File: VN049779.D

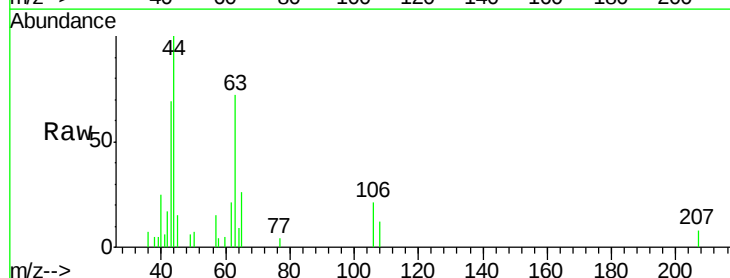
Acq: 12 Jul 2018 19:44

Tgt Ion: 63 Resp: 5594

Ion Ratio Lower Upper

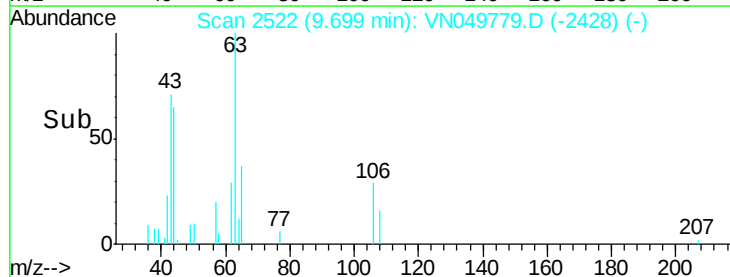
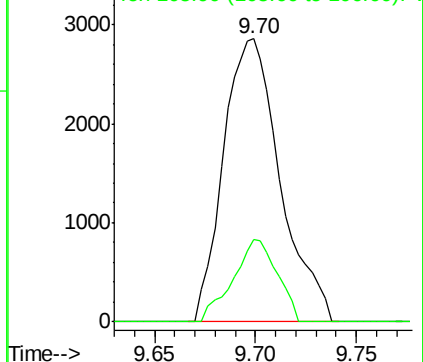
63 100

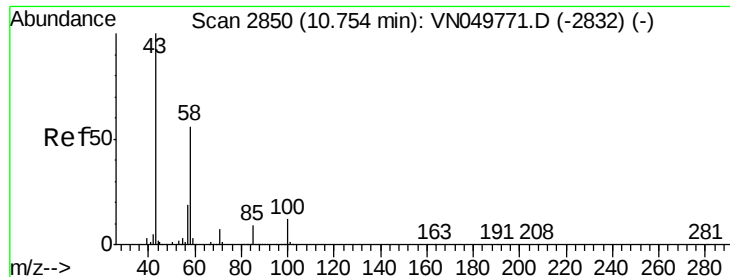
106 22.8 21.8 32.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

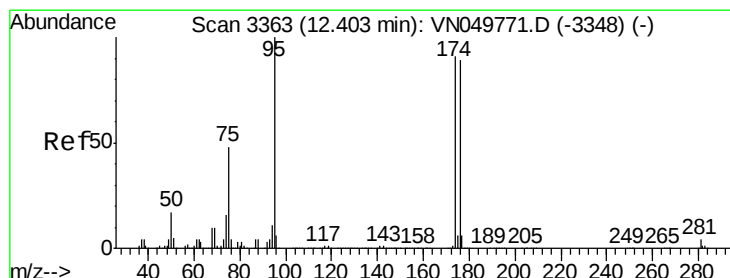
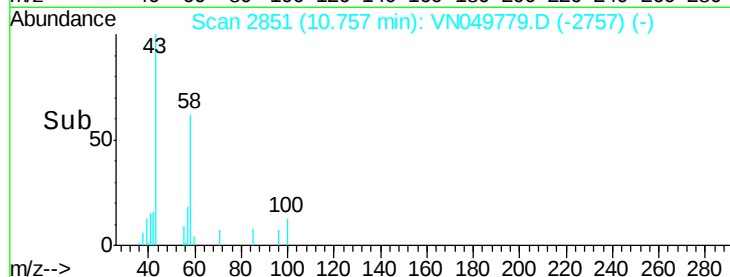
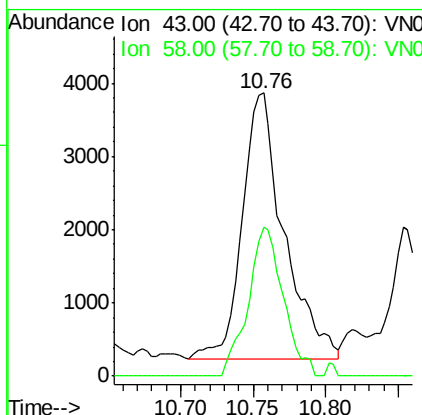
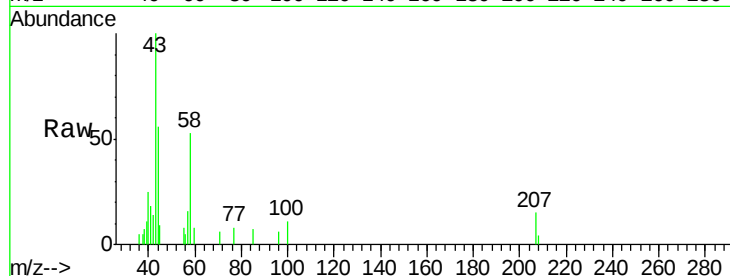




#59
2-Hexanone
Concen: 0.973 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

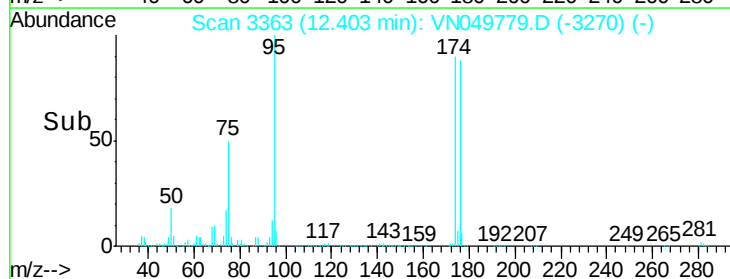
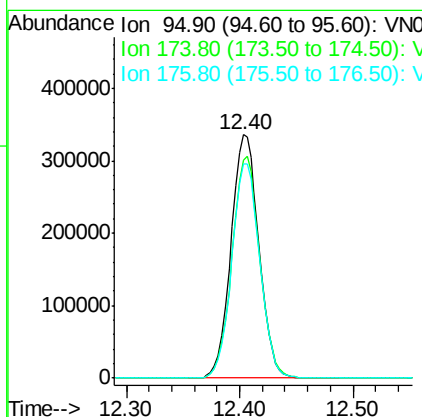
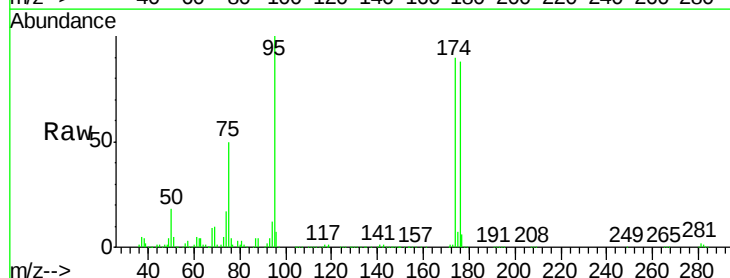
Instrument :
MSVOA_N
ClientSampleId :

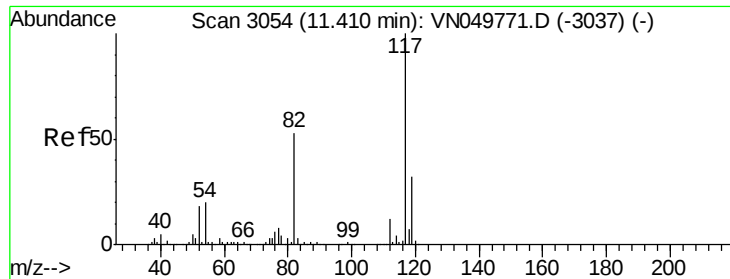
Tot Ion: 43 Resp: 7256
Ion Ratio Lower Upper
43 100
58 47.3 27.8 83.4



#62
4-Bromofluorobenzene
Concen: 37.001 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion: 95 Resp: 574739
Ion Ratio Lower Upper
95 100
174 90.4 0.0 179.6
176 88.4 0.0 174.0

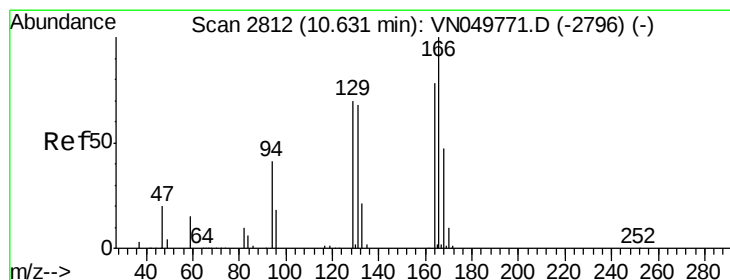
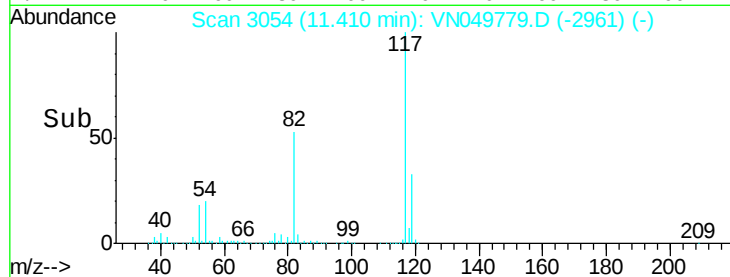
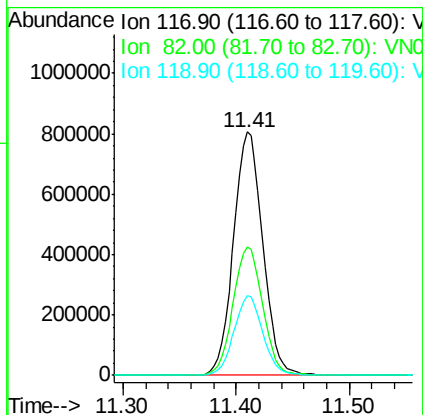
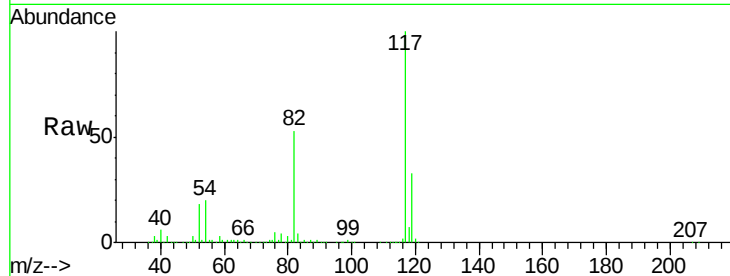




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

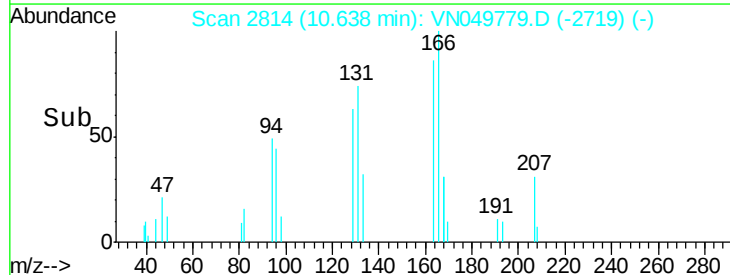
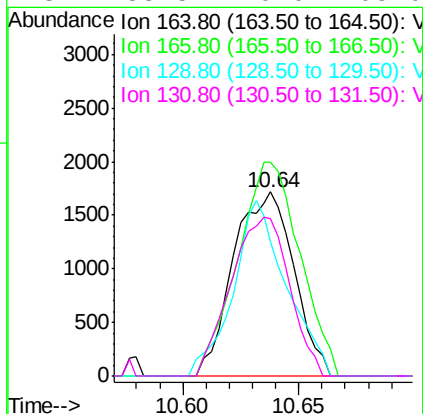
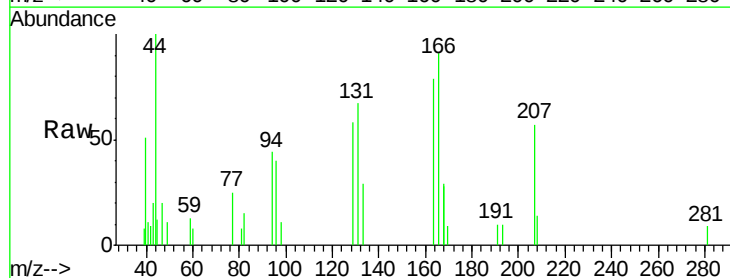
Instrument :
MSVOA_N
ClientSampled :

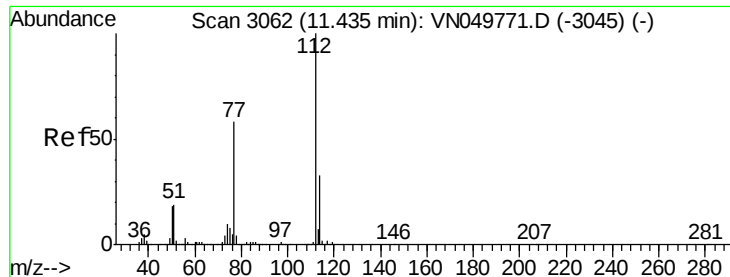
Tot Ion:117 Resp: 1454329
Ion Ratio Lower Upper
117 100
82 52.8 41.9 62.9
119 32.5 25.4 38.2



#64
Tetrachloroethene
Concen: 0.235 ug/l
RT: 10.64 min Scan# 2814
Delta R.T. 0.01 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion:164 Resp: 3103
Ion Ratio Lower Upper
164 100
166 115.9 101.8 152.6
129 73.2 72.8 109.2
131 85.5 70.0 105.0





#65

Chlorobenzene

Concen: 0.225 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

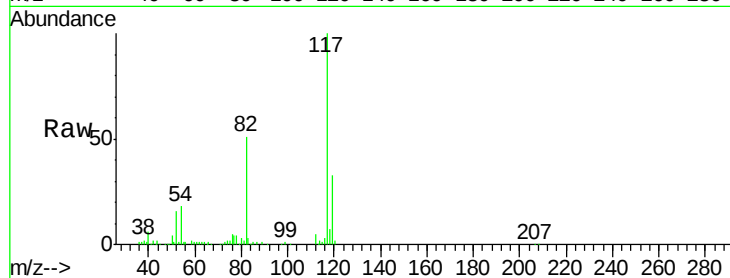
ClientSampleId :

Tot Ion:112 Resp: 8538

Ion Ratio Lower Upper

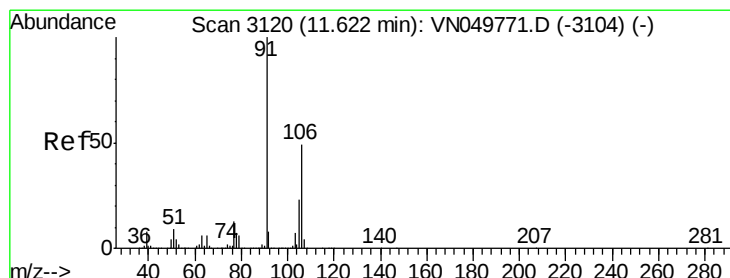
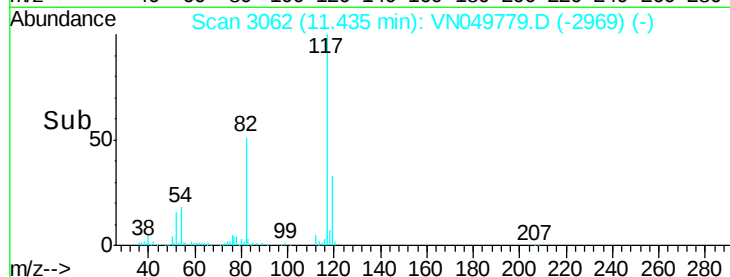
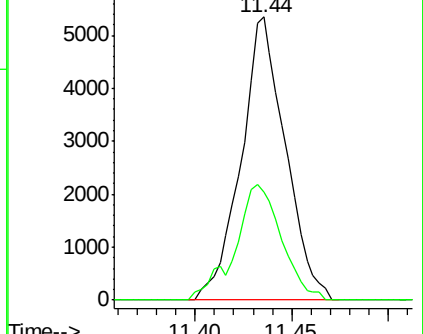
112 100

114 38.2 25.4 38.0#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#68

m/p-Xylenes

Concen: 0.333 ug/l

RT: 11.63 min Scan# 3121

Delta R.T. 0.00 min

Lab File: VN049779.D

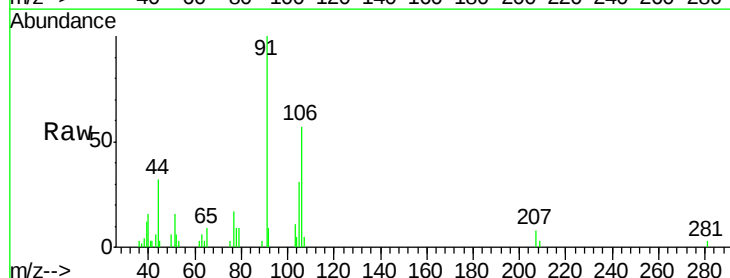
Acq: 12 Jul 2018 19:44

Tgt Ion:106 Resp: 7763

Ion Ratio Lower Upper

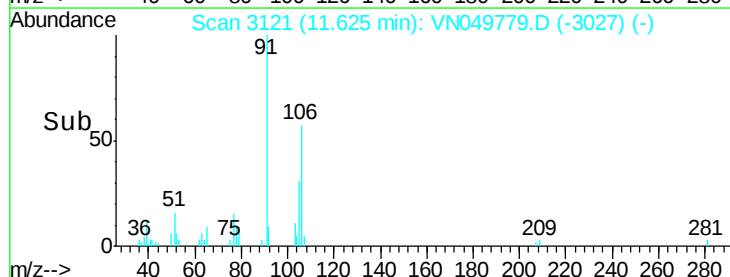
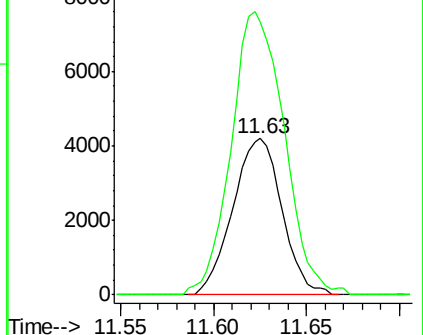
106 100

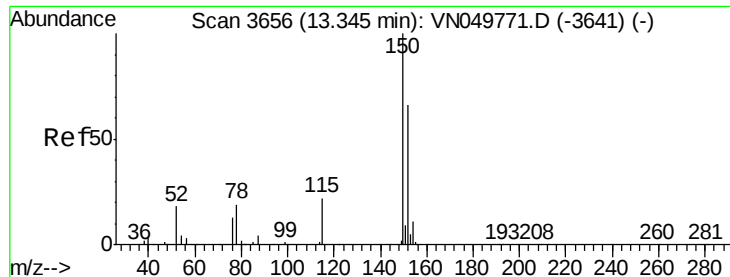
91 195.1 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampled :

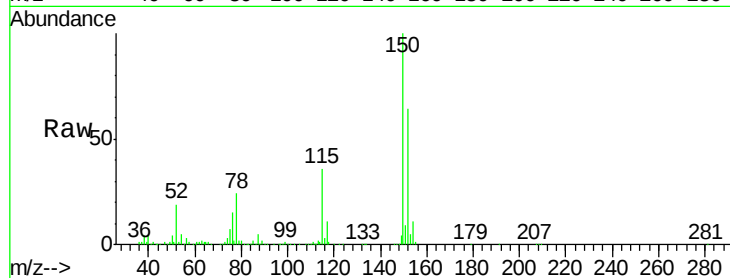
Tot Ion:152 Resp: 552606

Ion Ratio Lower Upper

152 100

115 55.9 28.1 84.2

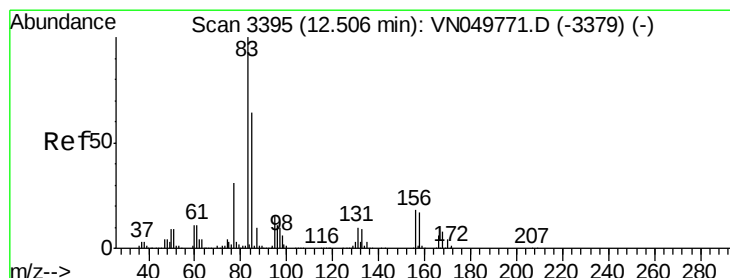
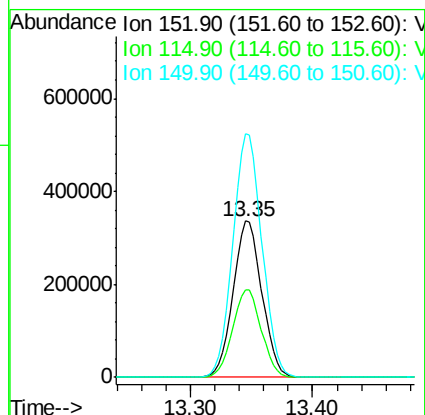
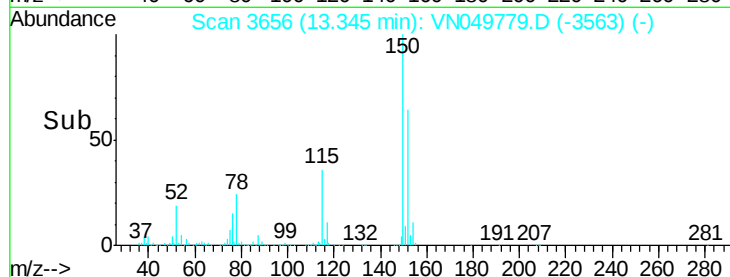
150 157.0 0.0 347.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

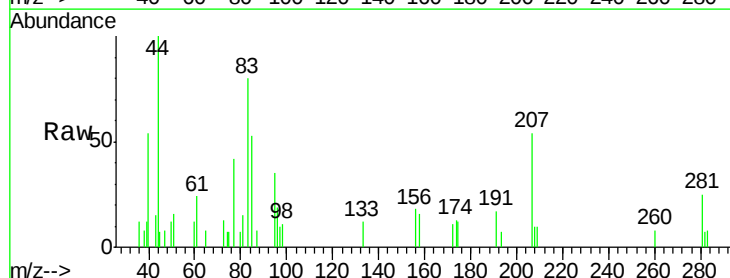
Tgt Ion: 83 Resp: 2870

Ion Ratio Lower Upper

83 100

131 4.6 5.2 15.6#

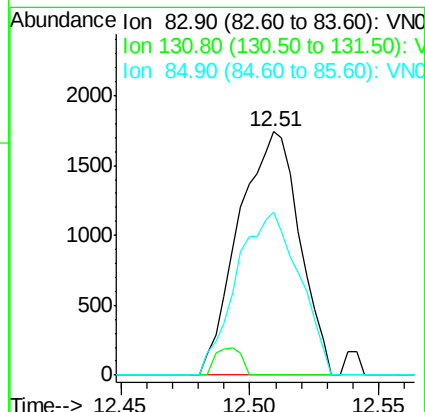
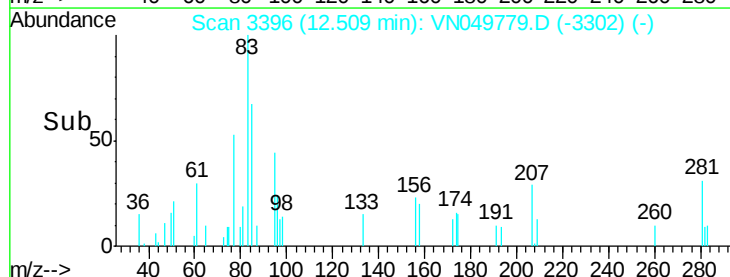
85 69.1 32.5 97.4

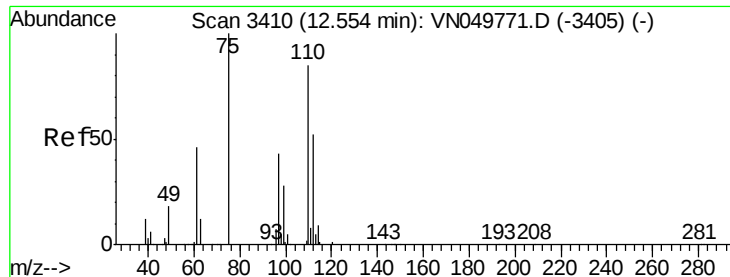


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 28.731 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

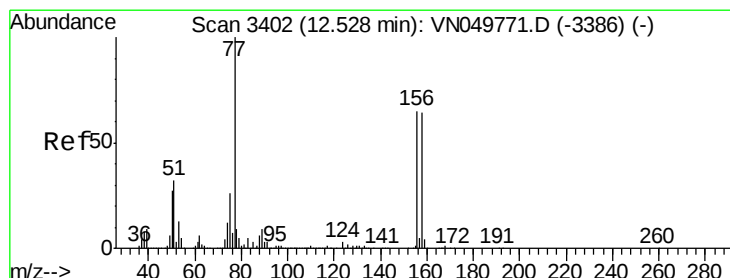
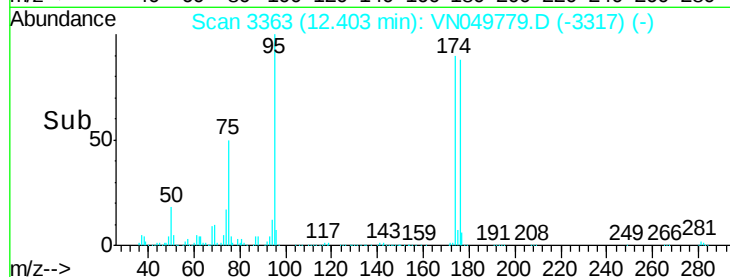
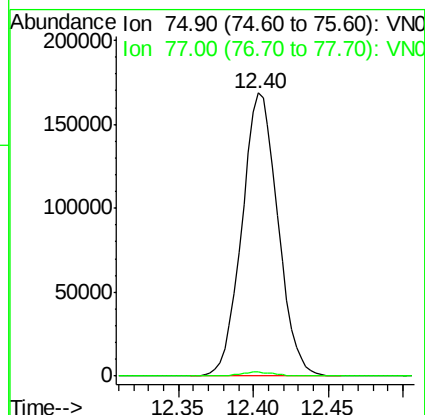
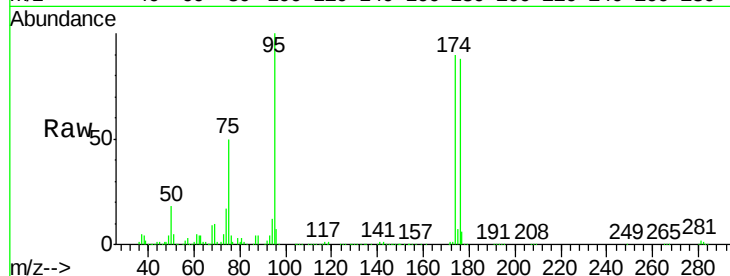
ClientSampled :

Tot Ion: 75 Resp: 282056

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#77

Bromobenzene

Concen: 0.279 ug/l

RT: 12.53 min Scan# 3403

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

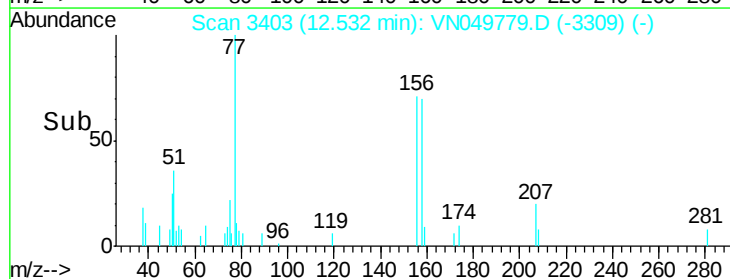
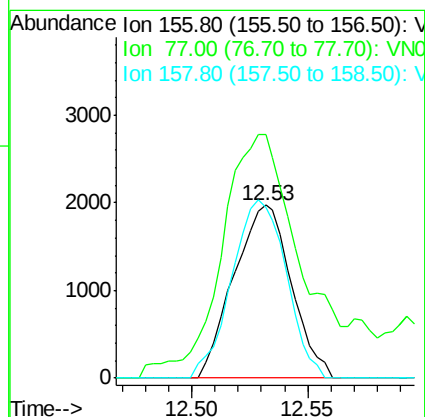
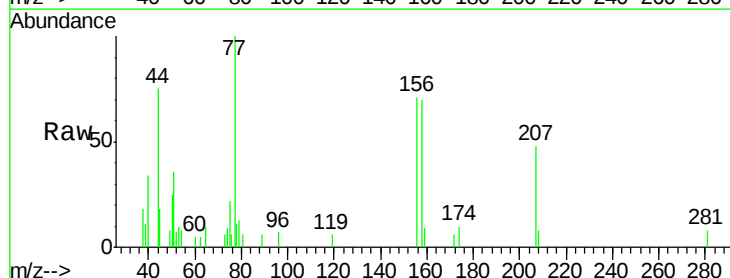
Tgt Ion: 156 Resp: 3398

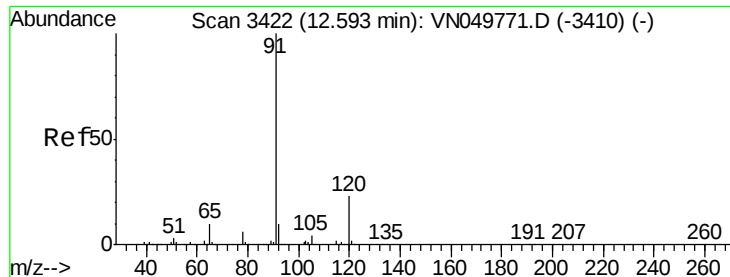
Ion Ratio Lower Upper

156 100

77 191.9 90.2 270.6

158 97.9 49.1 147.3





#78

n-propylbenzene

Concen: 0.206 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

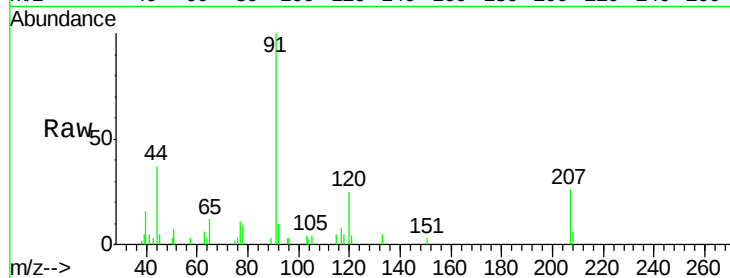
ClientSampled :

Tot Ion: 91 Resp: 10676

Ion Ratio Lower Upper

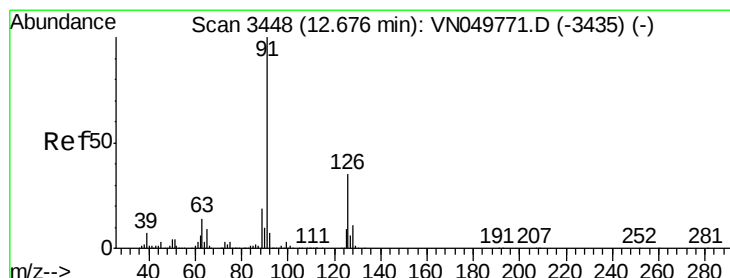
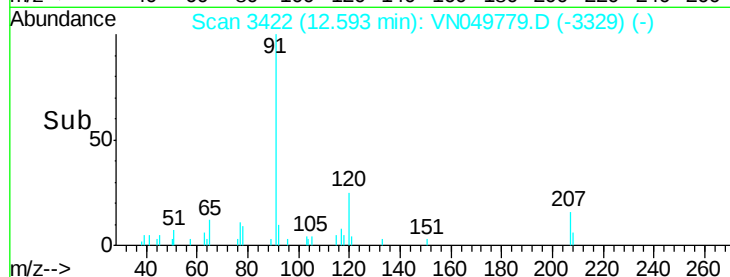
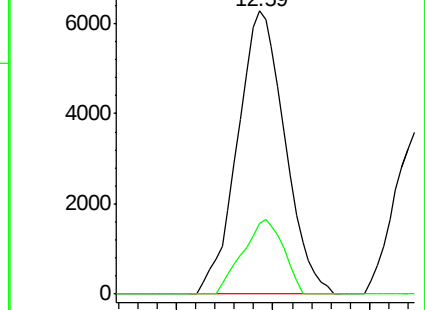
91 100

120 22.7 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.225 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049779.D

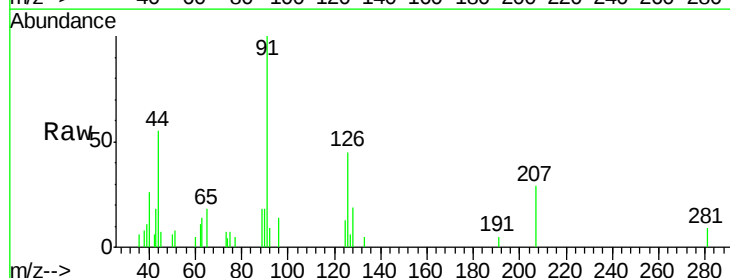
Acq: 12 Jul 2018 19:44

Tgt Ion: 91 Resp: 7125

Ion Ratio Lower Upper

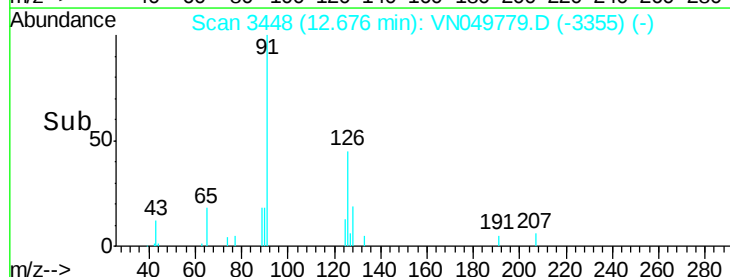
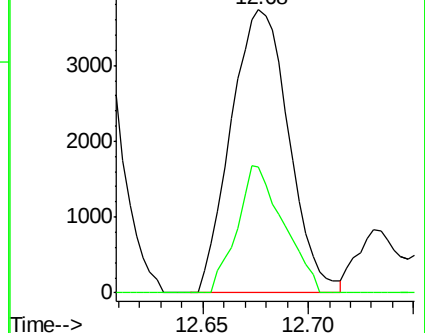
91 100

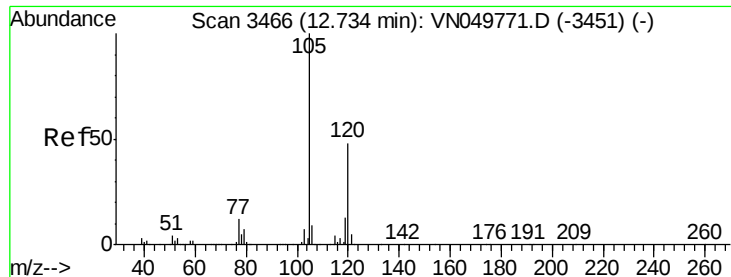
126 35.8 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 0.208 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

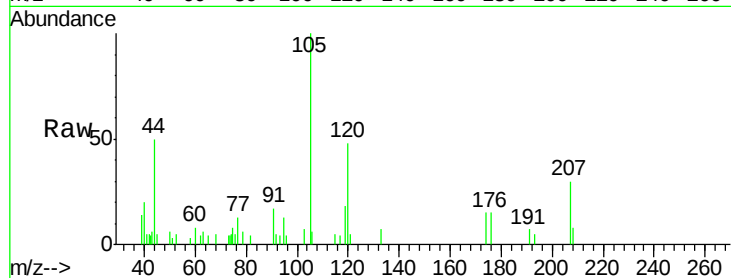
ClientSampled :

Tot Ion:105 Resp: 7579

Ion Ratio Lower Upper

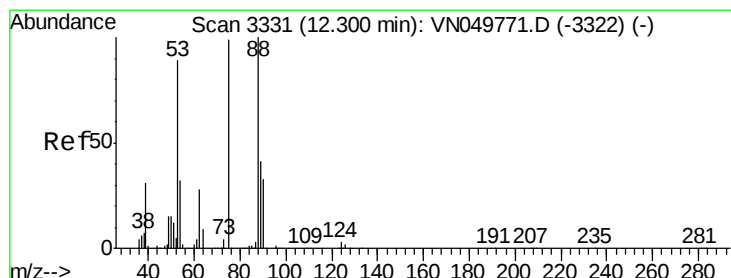
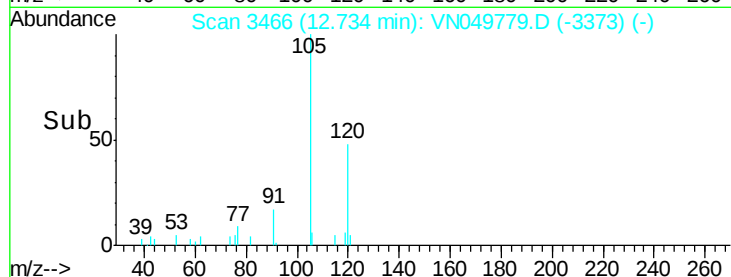
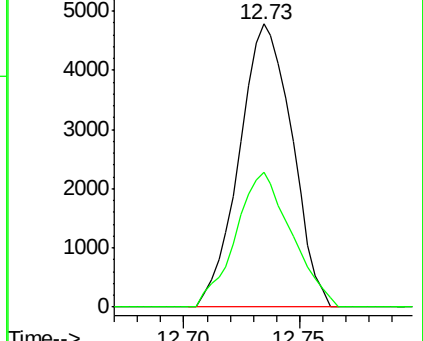
105 100

120 50.4 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 92.784 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

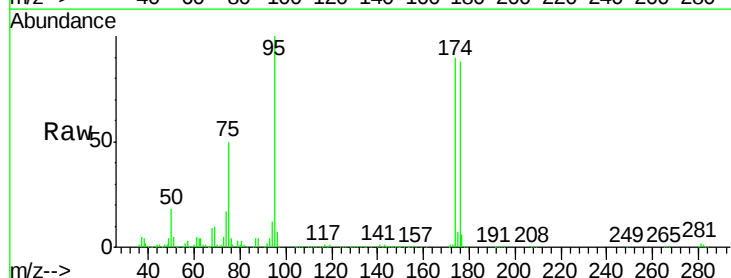
Tgt Ion: 75 Resp: 282056

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

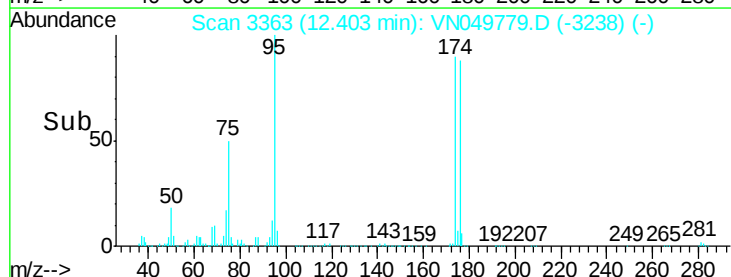
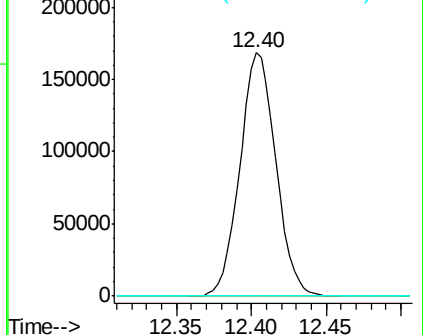
89 0.2 35.9 53.9#

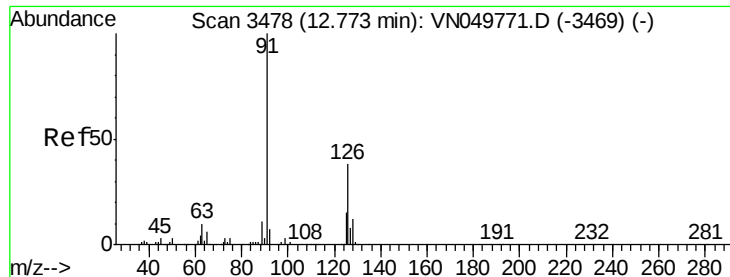


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 0.223 ug/l

RT: 12.78 min Scan# 3480

Delta R.T. 0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

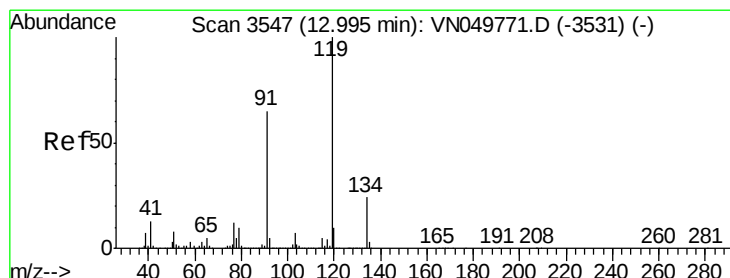
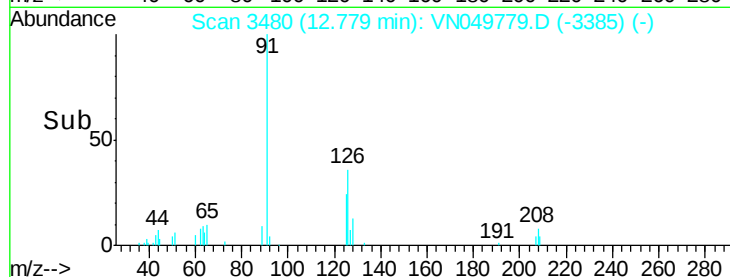
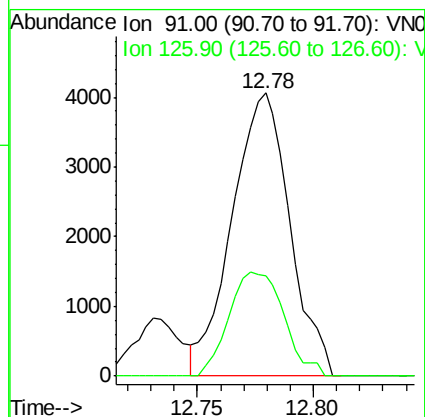
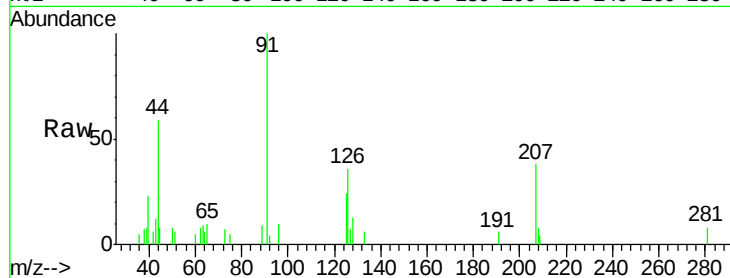
ClientSampleId :

Tot Ion: 91 Resp: 7019

Ion Ratio Lower Upper

91 100

126 35.0 17.2 51.6



#83

tert-Butylbenzene

Concen: 0.210 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

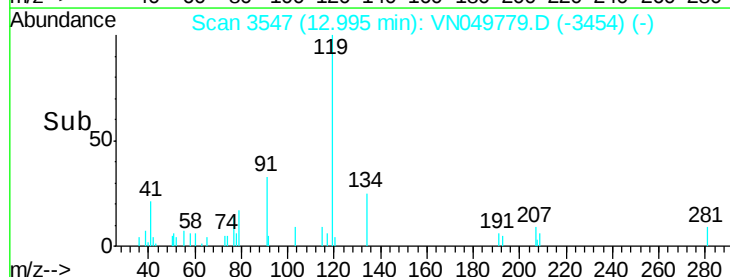
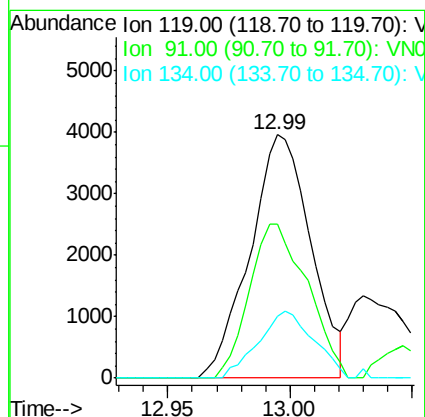
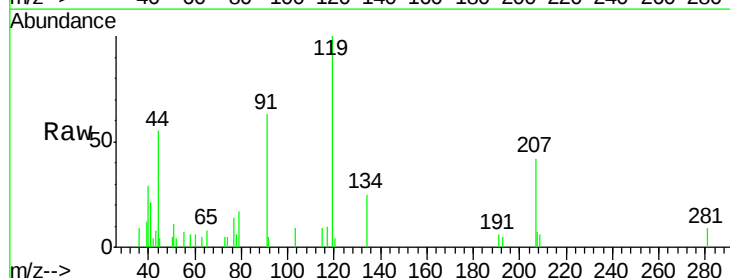
Tgt Ion: 119 Resp: 6857

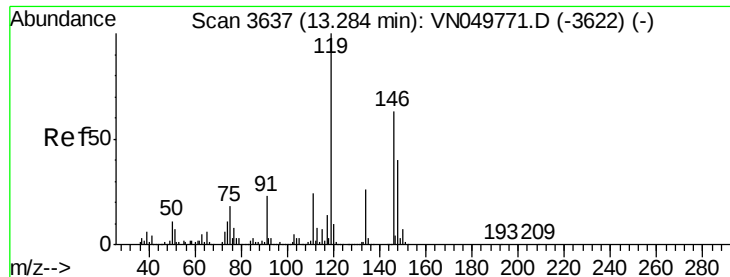
Ion Ratio Lower Upper

119 100

91 60.1 32.0 96.2

134 25.0 12.8 38.4

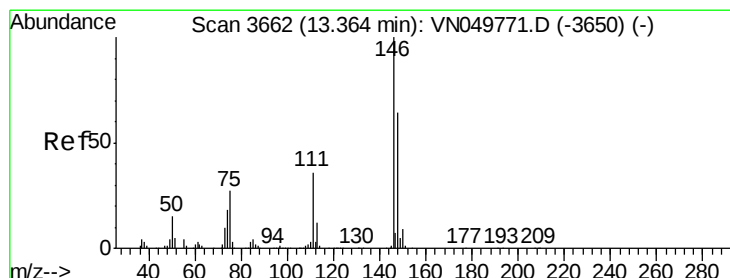
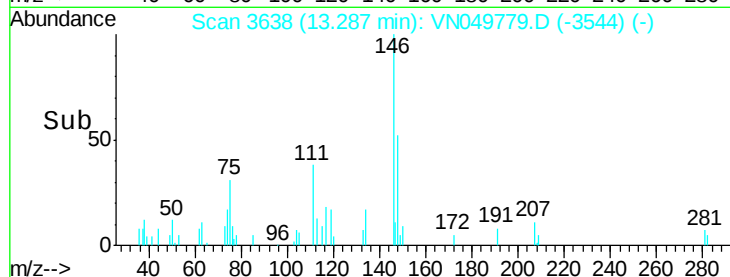
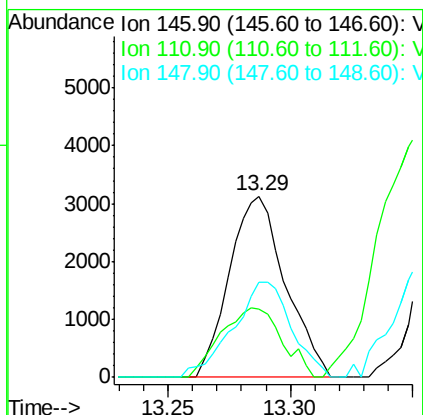
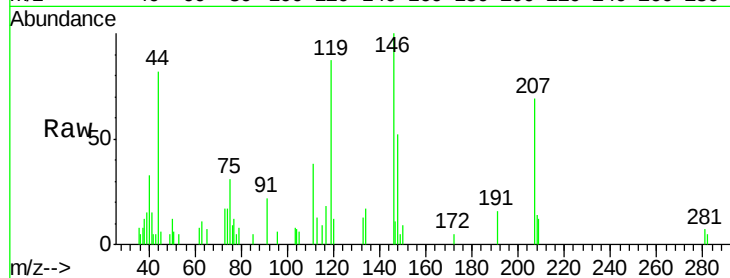




#87
 1,3-Dichlorobenzene
 Concen: 0.236 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

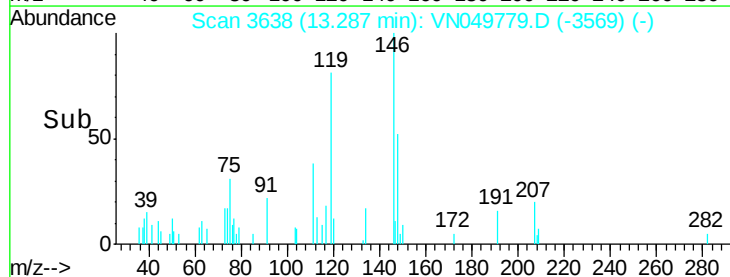
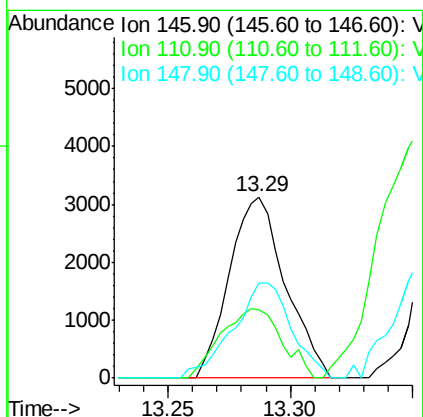
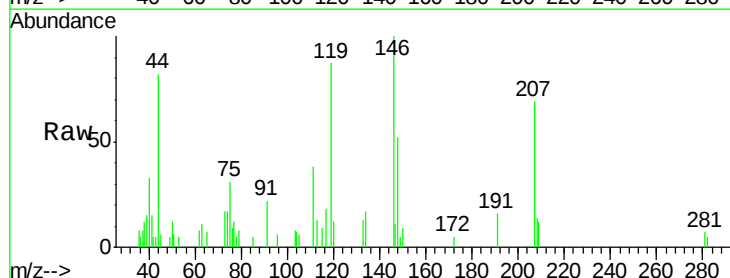
Instrument :
 MSVOA_N
 ClientSampleId :

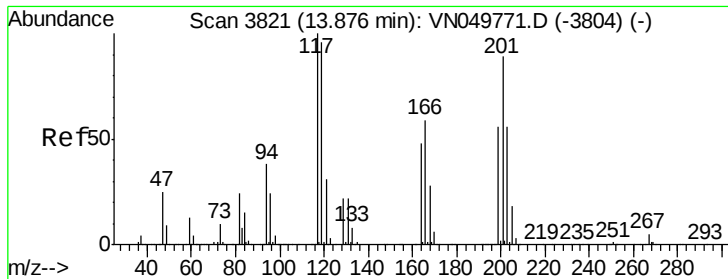
Tot Ion:146 Resp: 4984
 Ion Ratio Lower Upper
 146 100
 111 41.8 19.0 57.0
 148 54.6 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: 0.243 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. -0.08 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Tgt Ion:146 Resp: 4984
 Ion Ratio Lower Upper
 146 100
 111 41.8 18.9 56.5
 148 54.6 32.1 96.3





#90

Hexachloroethane

Concen: Below Cal

RT: 13.88 min Scan# 3823

Delta R.T. 0.01 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

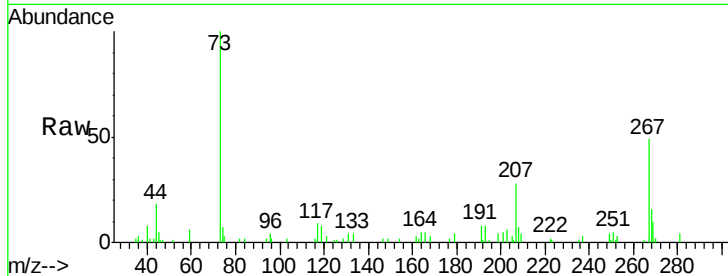
ClientSampleId :

Tot Ion:117 Resp: 2299

Ion Ratio Lower Upper

117 100

201 55.9 45.3 135.8



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

1500

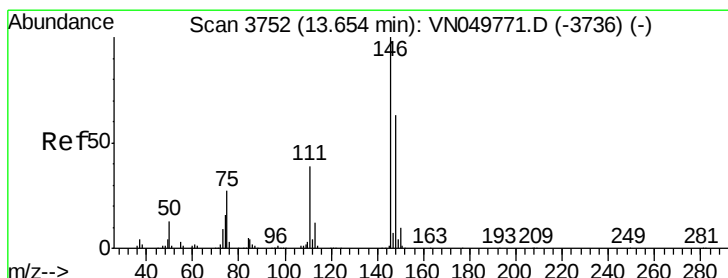
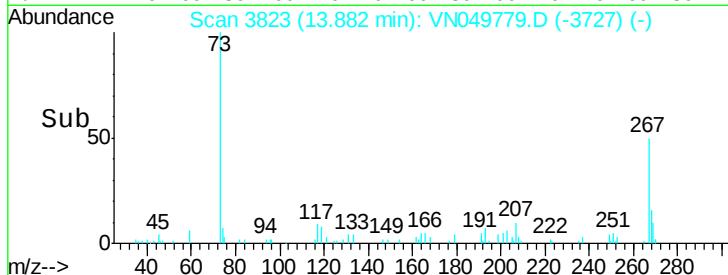
1000

500

0

13.85 13.90

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.228 ug/l

RT: 13.66 min Scan# 3753

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

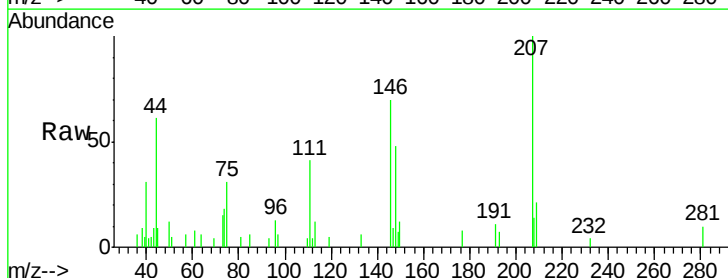
Tgt Ion:146 Resp: 4692

Ion Ratio Lower Upper

146 100

111 53.8 19.7 59.1

148 64.0 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

3000

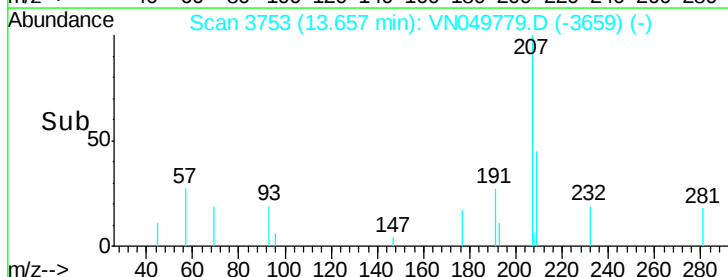
2000

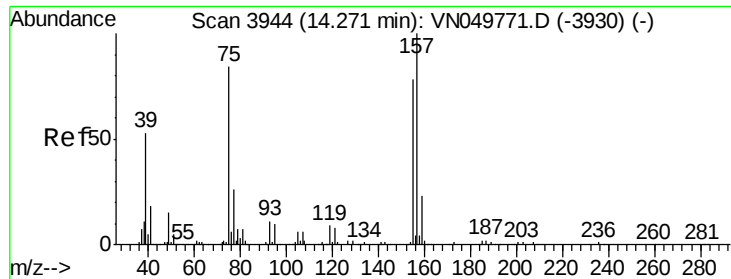
1000

0

13.60 13.65 13.70

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

Instrument :

MSVOA_N

ClientSampled :

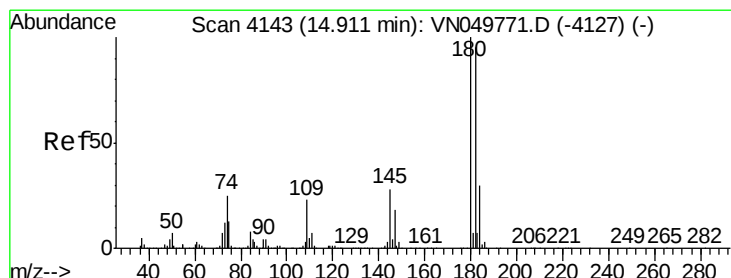
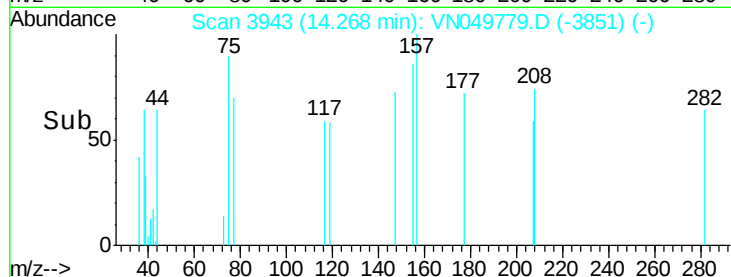
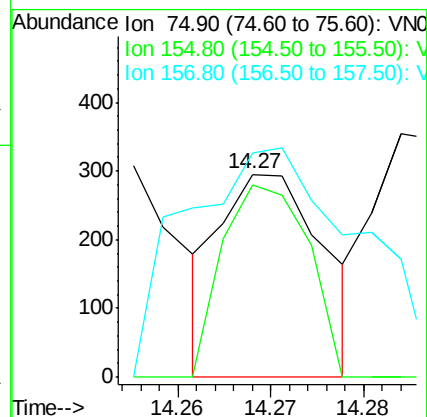
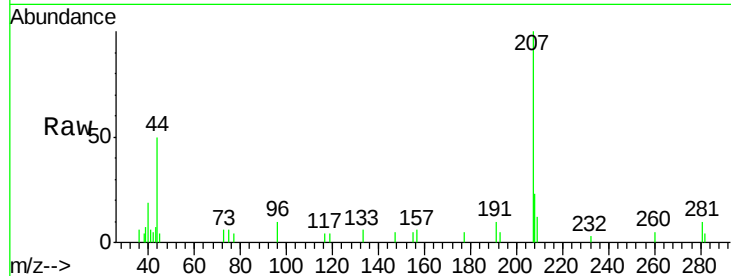
Tot Ion: 75 Resp: 228

Ion Ratio Lower Upper

75 100

155 79.4 45.7 137.1

157 189.0 56.9 170.7#



#93

1,2,4-Trichlorobenzene

Concen: 3.081 ug/l

RT: 14.91 min Scan# 4144

Delta R.T. 0.00 min

Lab File: VN049779.D

Acq: 12 Jul 2018 19:44

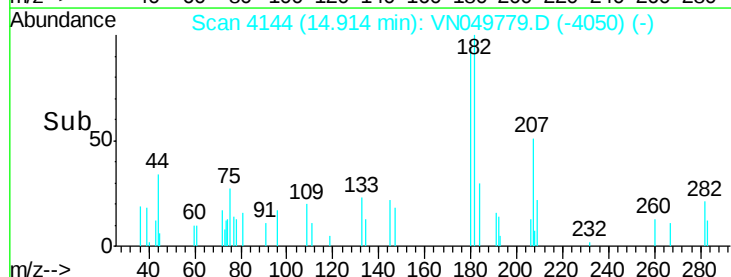
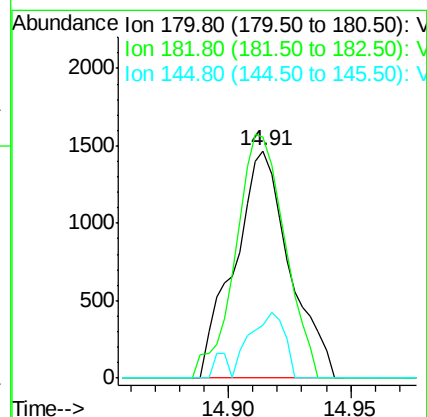
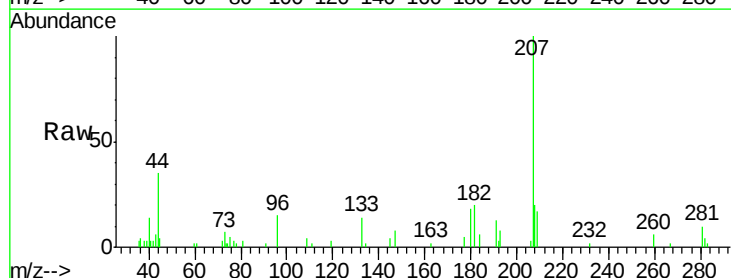
Tgt Ion: 180 Resp: 2296

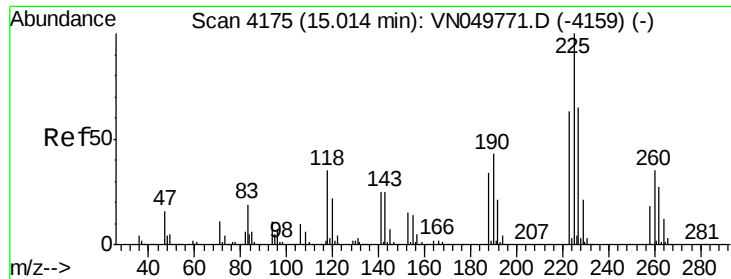
Ion Ratio Lower Upper

180 100

182 96.1 47.3 141.9

145 18.1 14.4 43.0

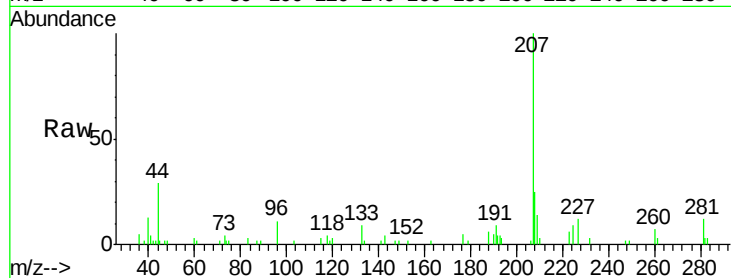




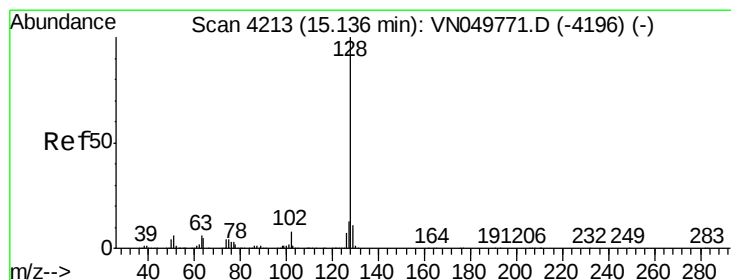
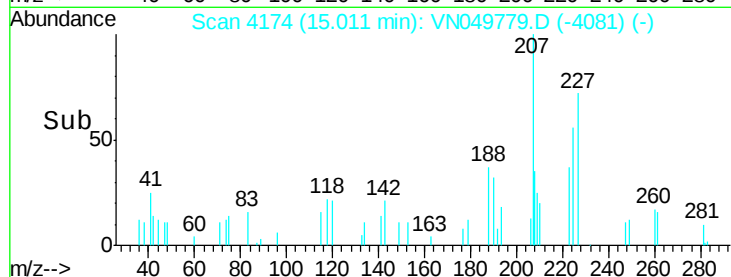
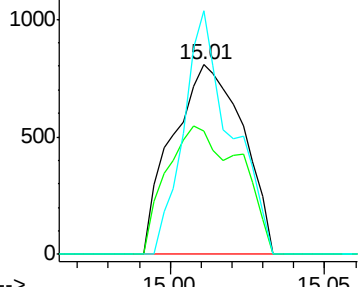
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.01 min Scan# 4174
Delta R.T. -0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:225 Resp: 1280
Ion Ratio Lower Upper
225 100
223 70.4 30.9 92.7
227 87.0 31.8 95.4

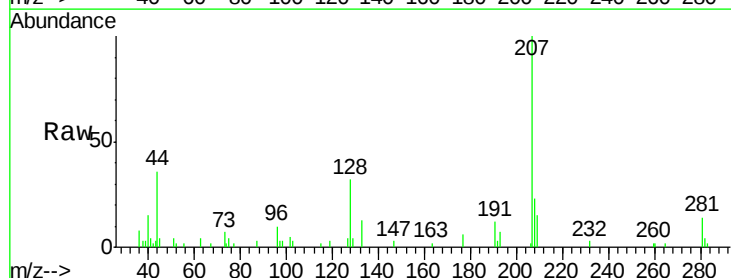


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

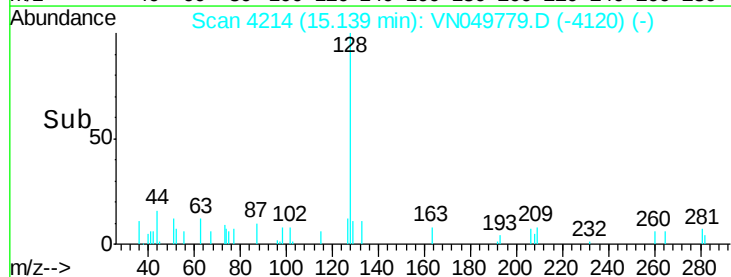
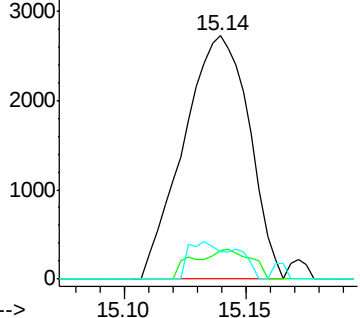


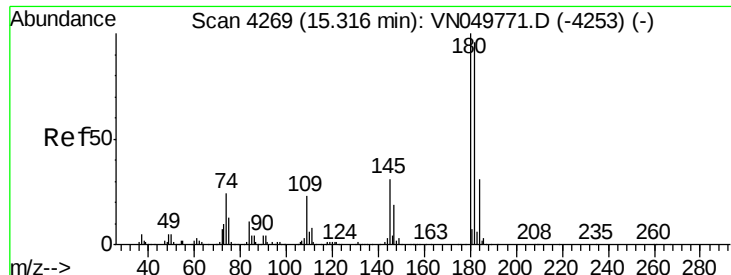
#95
Naphthalene
Concen: 4.216 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN049779.D
Acq: 12 Jul 2018 19:44

Tgt Ion:128 Resp: 5068
Ion Ratio Lower Upper
128 100
127 10.6 10.4 15.6
129 11.3 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

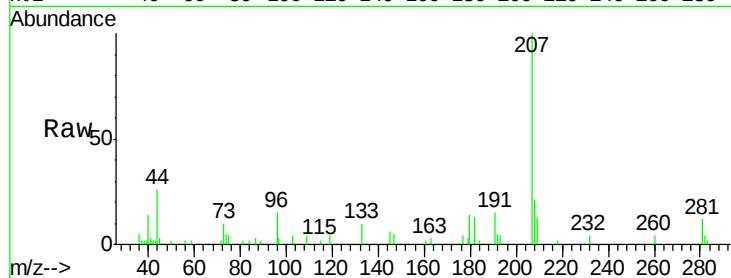




#96
 1,2,3-Trichlorobenzene
 Concen: 0.268 ug/l
 RT: 15.32 min Scan# 4269
 Delta R.T. 0.00 min
 Lab File: VN049779.D
 Acq: 12 Jul 2018 19:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.4	47.4	142.2
145	29.9	15.2	45.6



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

