

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032219\
 Data File : VN054588.D
 Acq On : 23 Mar 2019 6:00
 Operator : JC/SP
 Sample : K2045-14
 Misc : 6.09µL/5mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 01:50:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	552909	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	865476	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	756159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	328959	50.00	ug/l	0.00

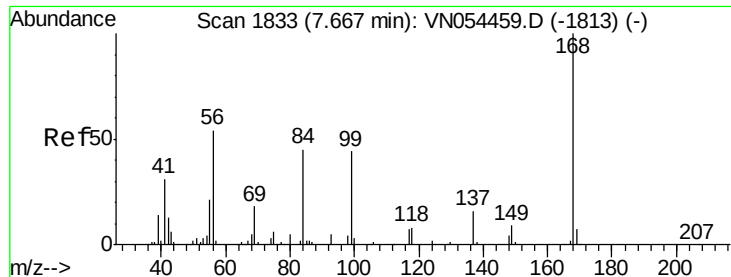
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	347088	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
35) Dibromofluoromethane	7.59	113	257111	46.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.22%	
50) Toluene-d8	10.09	98	1055353	50.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.70%	
62) 4-Bromofluorobenzene	12.40	95	346520	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	

Target Compounds

						Qvalue
4) Vinyl Chloride	2.19	62	16701	2.313	ug/l	97
11) Tert butyl alcohol	4.78	59	172	0.413	ug/l #	70
18) Methyl Acetate	4.33	43	2465	0.535	ug/l #	68
20) Methylene Chloride	4.55	84	2866	0.470	ug/l #	87
27) cis-1,2-Dichloroethene	6.82	96	21489	3.308	ug/l	96
31) Cyclohexane	7.65	56	12749	Below Cal	#	38
36) 1,1-Dichloropropene	7.66	75	40486	5.003	ug/l #	48
38) Carbon Tetrachloride	7.66	117	51658	6.569	ug/l #	16
39) Methylcyclohexane	9.08	83	6409	0.692	ug/l #	94
53) t-1,3-Dichloropropene	10.25	75	244	2.261	ug/l #	40
65) Chlorobenzene	11.43	112	236775	15.396	ug/l	99
71) Bromoform	12.40	173	3447	3.086	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	180038	34.490	ug/l #	100
78) n-propylbenzene	12.59	91	6220	0.216	ug/l	83
80) 1,3,5-Trimethylbenzene	12.89	105	4467	0.206	ug/l	68
81) trans-1,4-Dichloro-2-buten	12.40	75	180038	114.527	ug/l #	11
85) sec-Butylbenzene	13.17	105	5084	0.216	ug/l #	57
87) 1,3-Dichlorobenzene	13.28	146	74263	6.816	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	210256	19.835	ug/l	95
89) n-Butylbenzene	13.61	91	5053	0.306	ug/l #	77
91) 1,2-Dichlorobenzene	13.65	146	624547	59.184	ug/l	98
93) 1,2,4-Trichlorobenzene	14.91	180	27598	5.246	ug/l	93
96) 1,2,3-Trichlorobenzene	15.32	180	6914	1.321	ug/l #	81

(#) = 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. -0.01 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

Instrument :

MSVOA_N

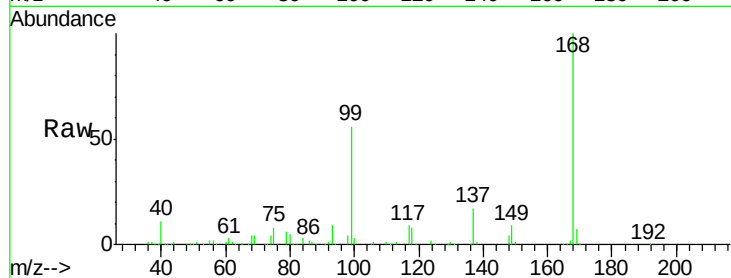
ClientSampled :

Tot Ion:168 Resp: 552909

Ion Ratio Lower Upper

168 100

99 56.1 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

200000

150000

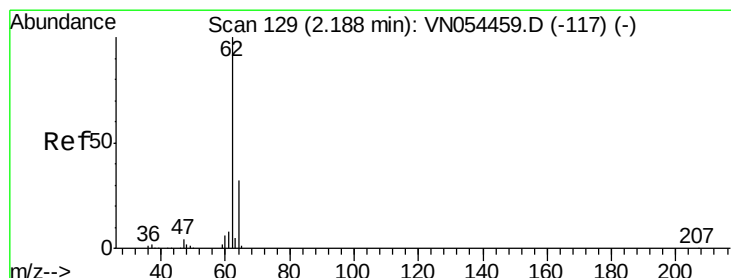
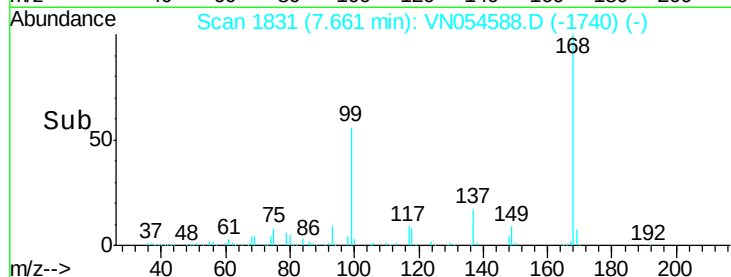
100000

50000

0

7.60 7.70 7.80

Time-->



#4

Vinyl Chloride

Concen: 2.313 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054588.D

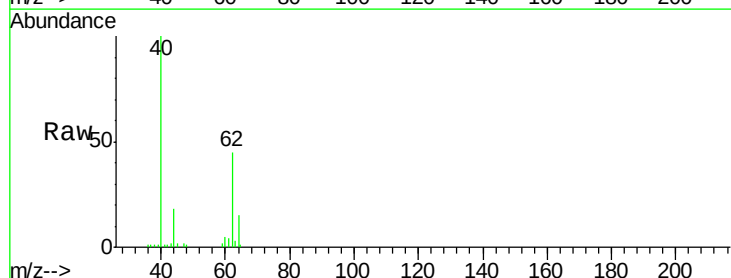
Acq: 23 Mar 2019 6:00

Tgt Ion: 62 Resp: 16701

Ion Ratio Lower Upper

62 100

64 33.4 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

12000

10000

8000

6000

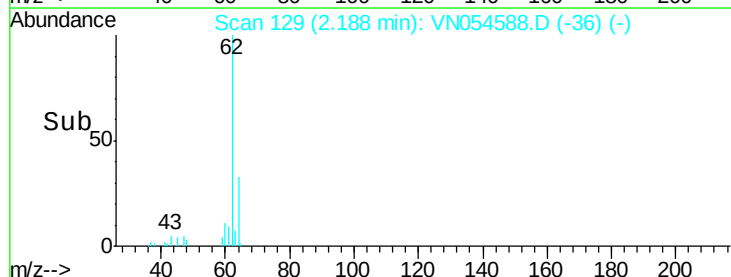
4000

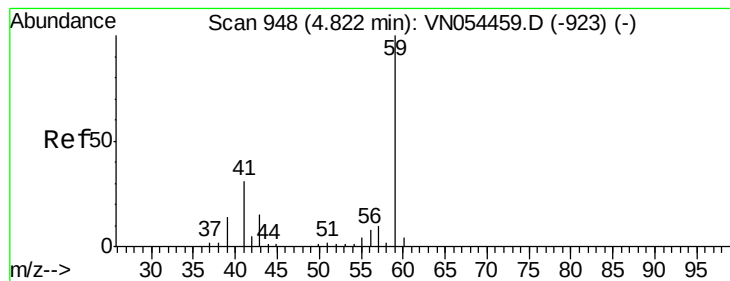
2000

0

2.15 2.20 2.25

Time-->



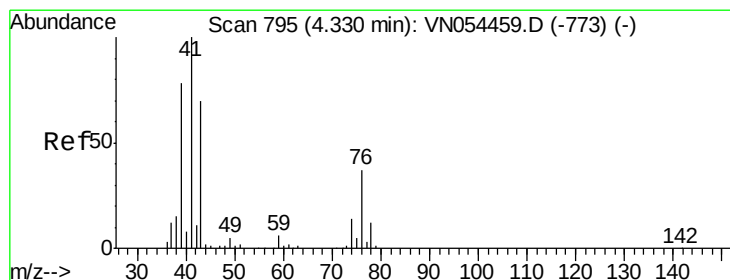
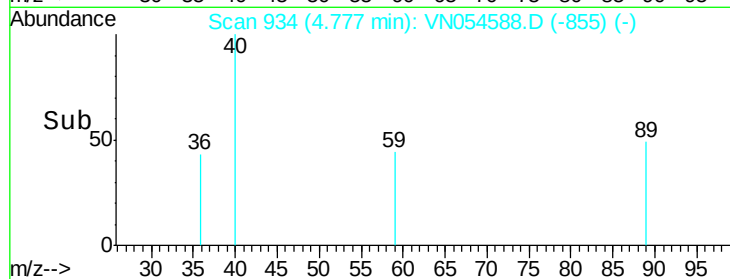
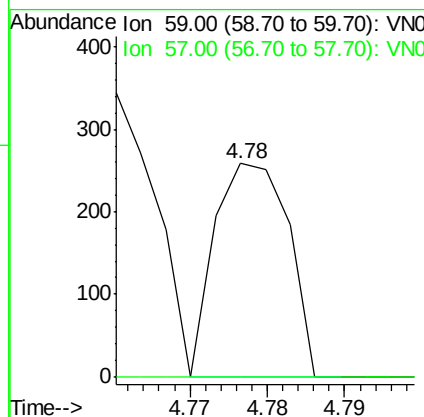
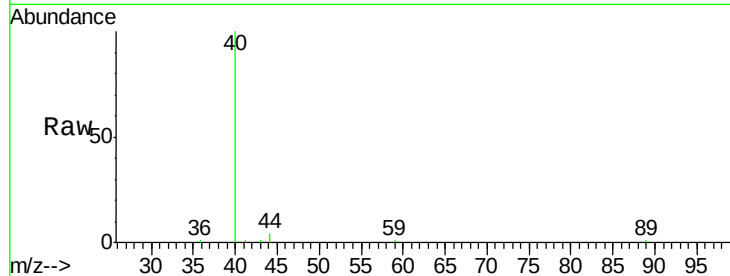


#11

Tert butyl alcohol
 Concen: 0.413 ug/l
 RT: 4.78 min Scan# 934
 Delta R.T. -0.04 min
 Lab File: VN054588.D
 Acq: 23 Mar 2019 6:00

Instrument :
 MSVOA_N
 ClientSampleId :

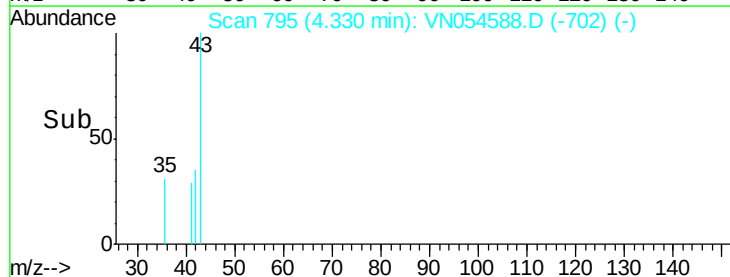
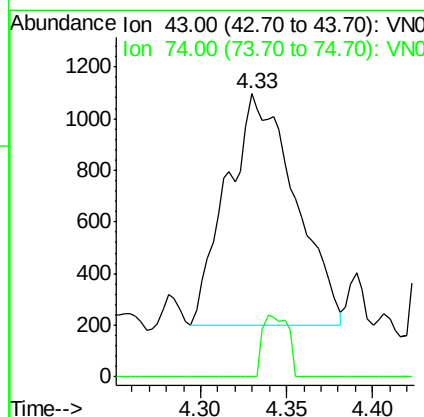
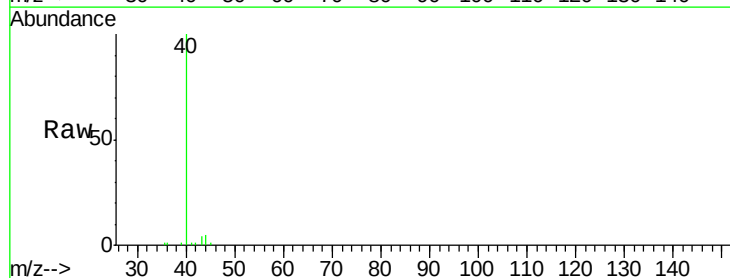
Tot Ion: 59 Resp: 172
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

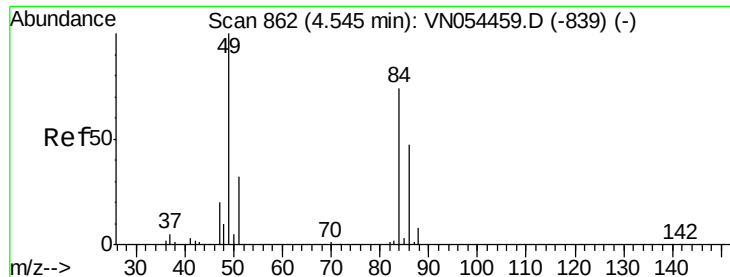


#18

Methyl Acetate
 Concen: 0.535 ug/l
 RT: 4.33 min Scan# 795
 Delta R.T. 0.00 min
 Lab File: VN054588.D
 Acq: 23 Mar 2019 6:00

Tgt Ion: 43 Resp: 2465
 Ion Ratio Lower Upper
 43 100
 74 9.9 20.8 31.2#

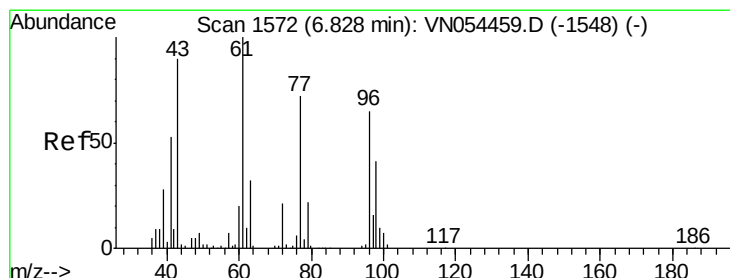
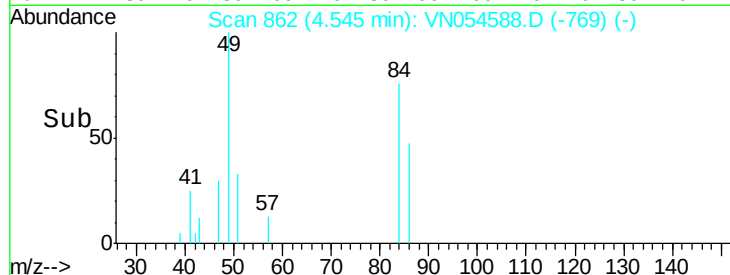
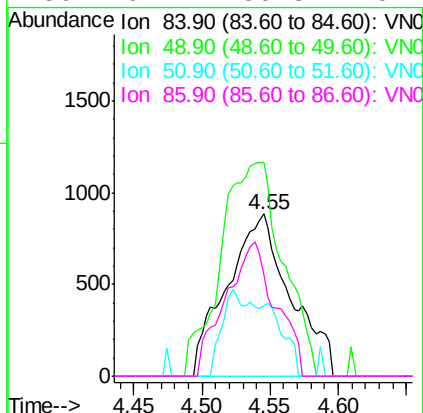
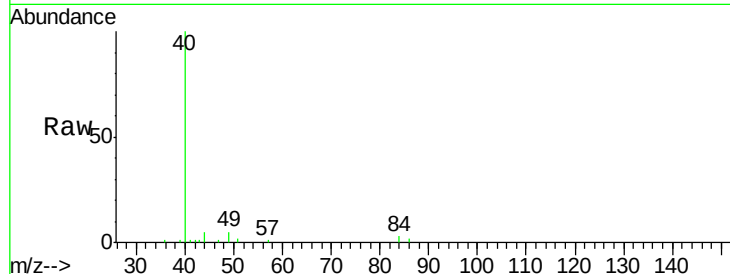




#20
Methylene Chloride
Concen: 0.470 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054588.D
Acq: 23 Mar 2019 6:00

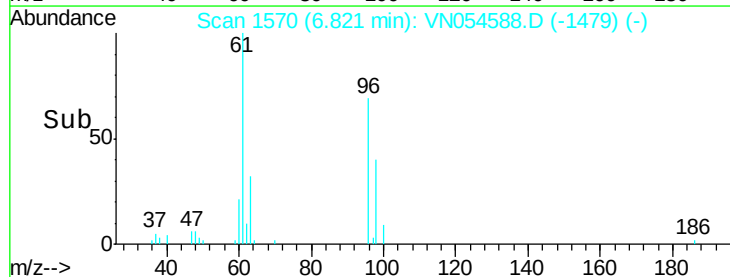
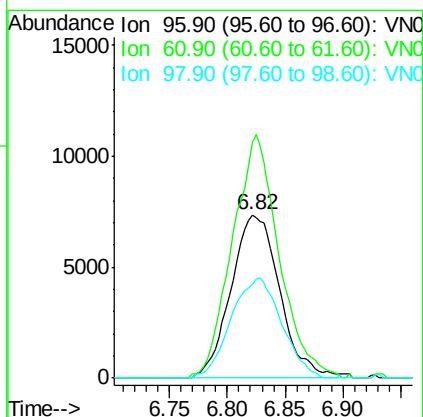
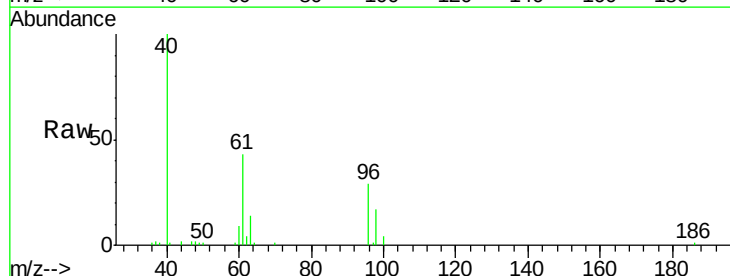
Instrument :
MSVOA_N
ClientSampleId :

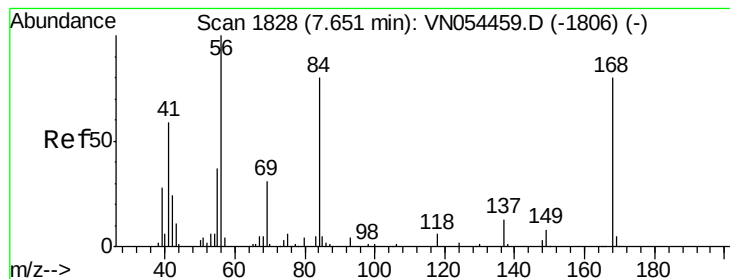
Tot Ion: 84 Resp: 2866
Ion Ratio Lower Upper
84 100
49 131.7 89.7 134.5
51 43.5 28.2 42.4#
86 62.1 50.8 76.2



#27
cis-1,2-Dichloroethene
Concen: 3.308 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VN054588.D
Acq: 23 Mar 2019 6:00

Tgt Ion: 96 Resp: 21489
Ion Ratio Lower Upper
96 100
61 142.7 0.0 273.0
98 63.7 0.0 130.6





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

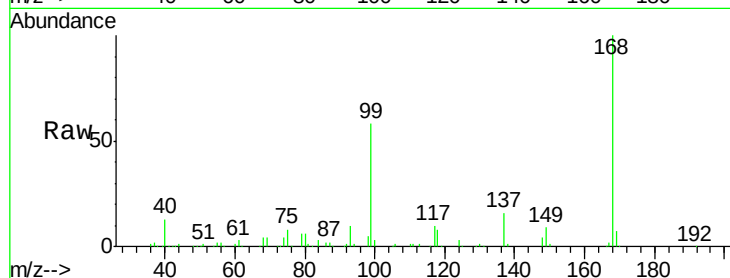
Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

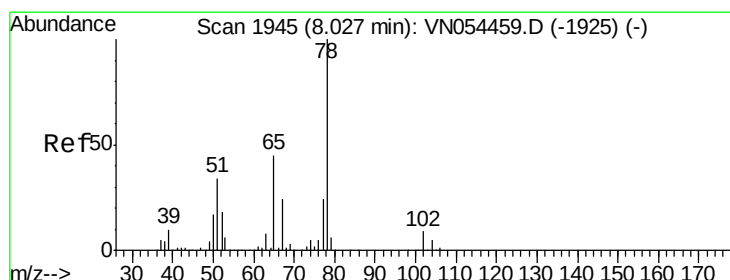
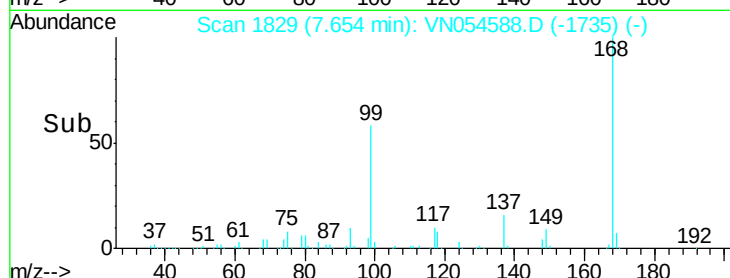
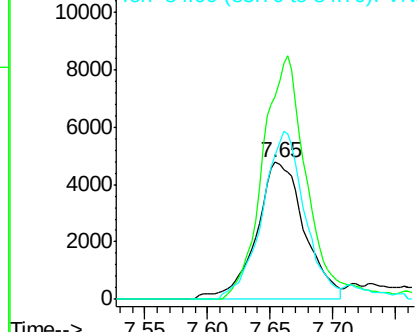
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 12749

Ion	Ratio	Lower	Upper
56	100		
69	148.0	27.8	41.6#
84	105.2	74.6	111.8



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: 50.469 ug/l

RT: 8.02 min Scan# 1944

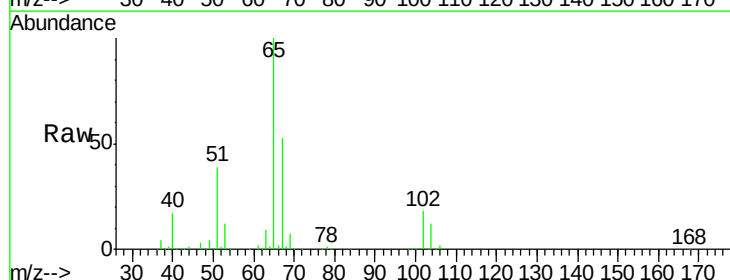
Delta R.T. -0.00 min

Lab File: VN054588.D

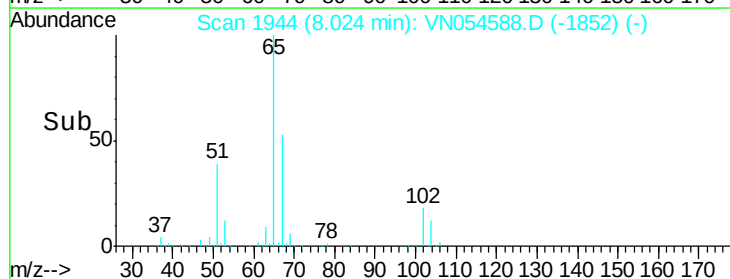
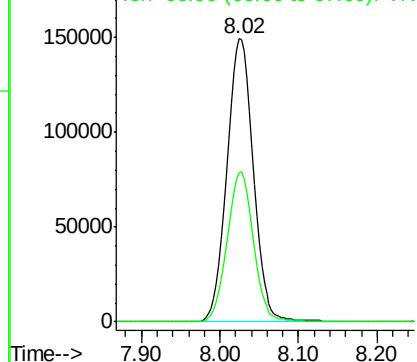
Acq: 23 Mar 2019 6:00

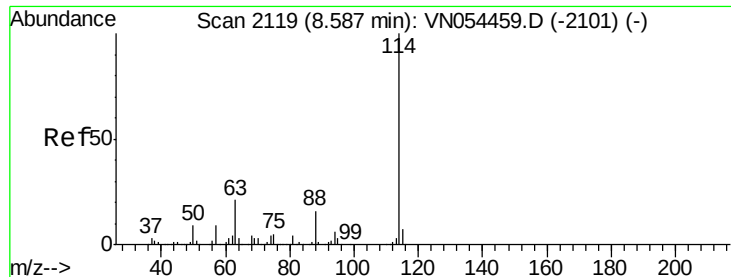
Tgt Ion: 65 Resp: 347088

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.6



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

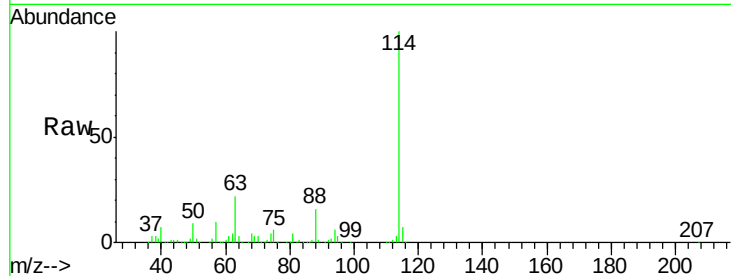




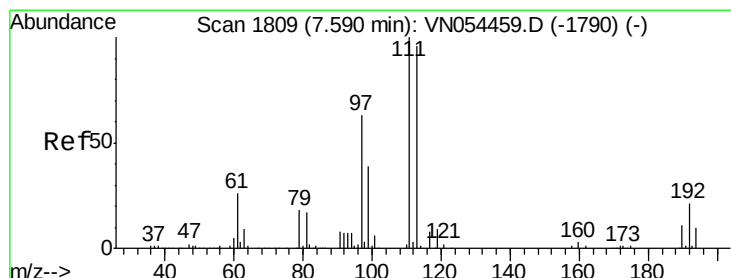
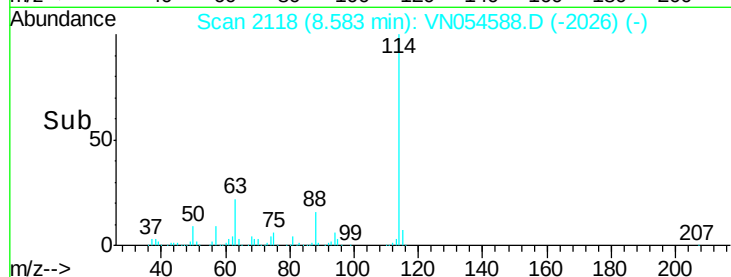
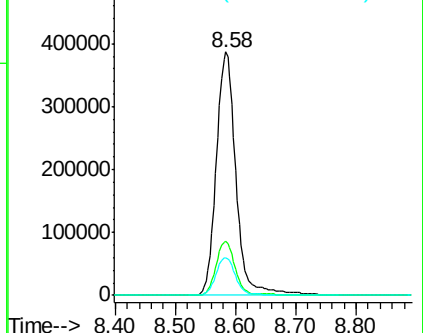
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054588.D
 Acq: 23 Mar 2019 6:00

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	35.2
88	15.6	0.0	30.2

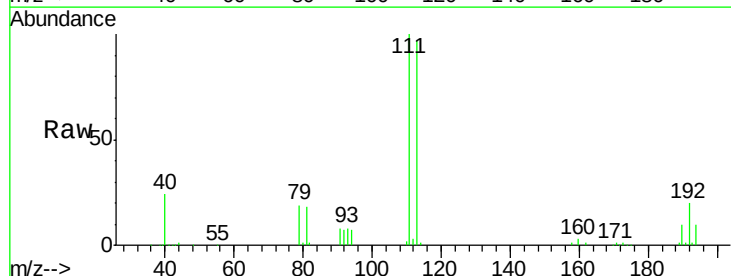


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

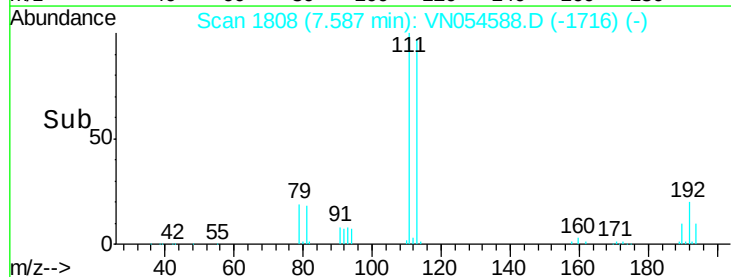
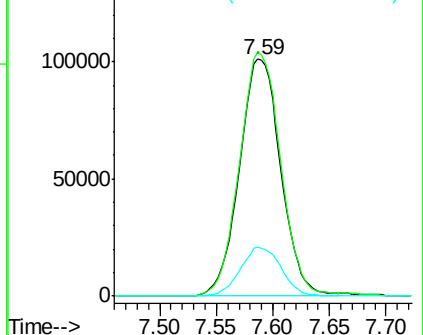


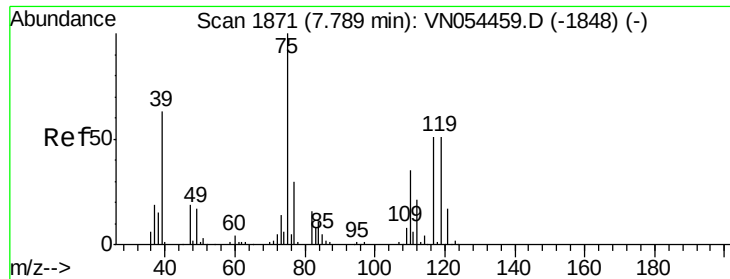
#35
 Dibromofluoromethane
 Concen: 46.112 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN054588.D
 Acq: 23 Mar 2019 6:00

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	20.4	19.2	28.8



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

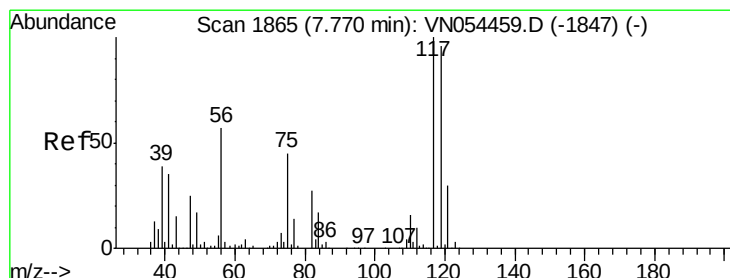
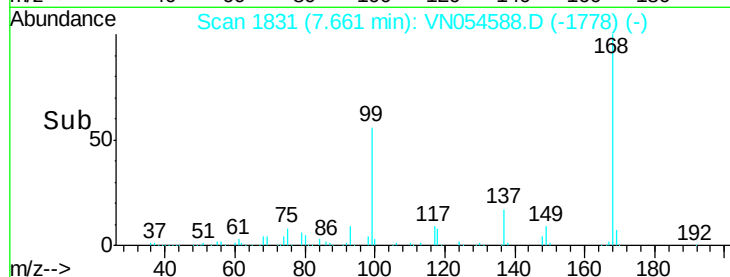
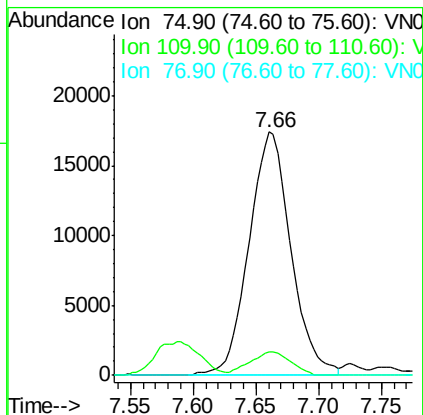
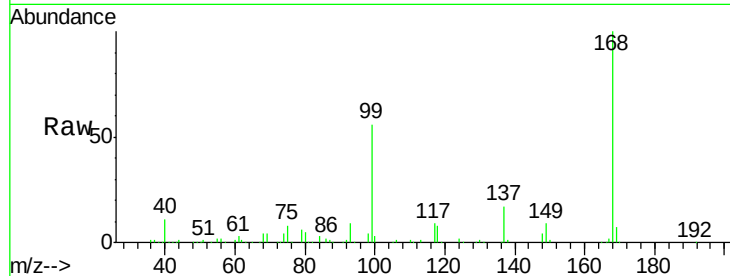




#36
 1,1-Dichloropropene
 Concen: 5.003 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN054588.D
 Acq: 23 Mar 2019 6:00

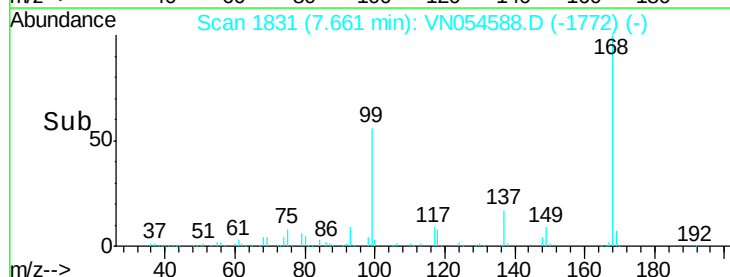
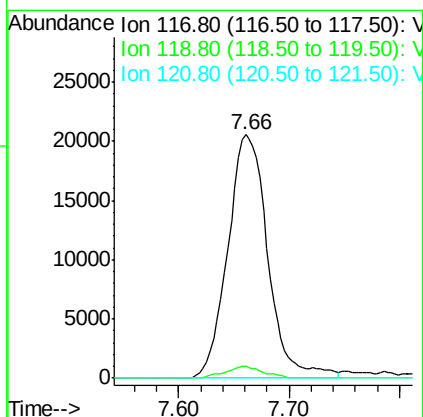
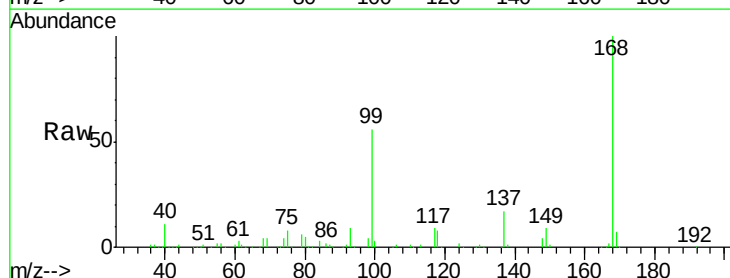
Instrument :
 MSVOA_N
 ClientSampled :

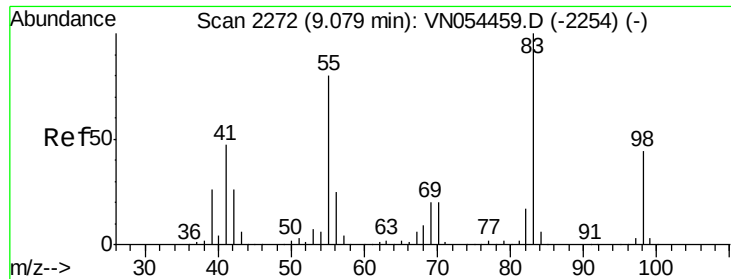
Tot Ion: 75 Resp: 40486
 Ion Ratio Lower Upper
 75 100
 110 9.5 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.569 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN054588.D
 Acq: 23 Mar 2019 6:00

Tgt Ion: 117 Resp: 51658
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.3 114.5#
 121 0.0 24.6 36.8#

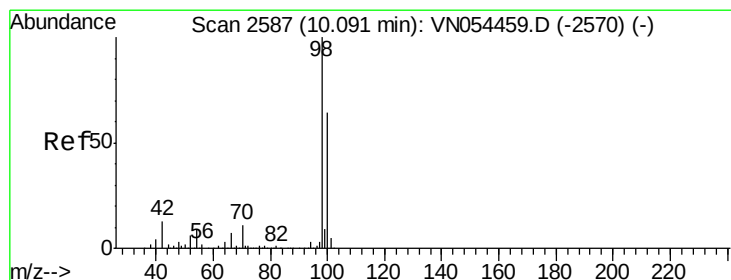
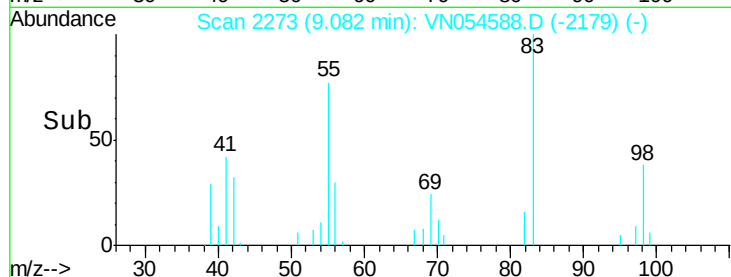
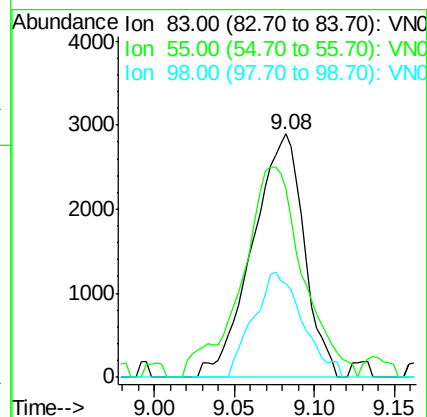
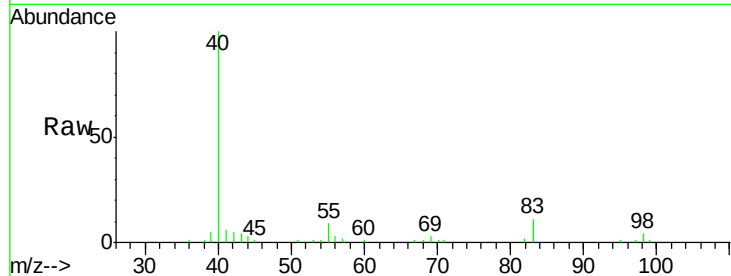




#39
Methvlcvclohexane
Concen: 0.692 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054588.D
Acq: 23 Mar 2019 6:00

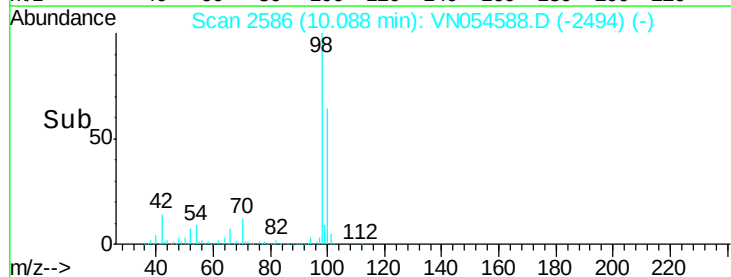
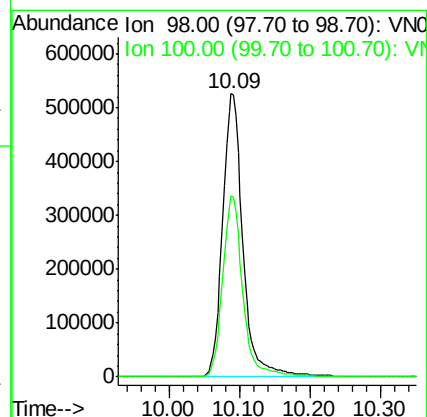
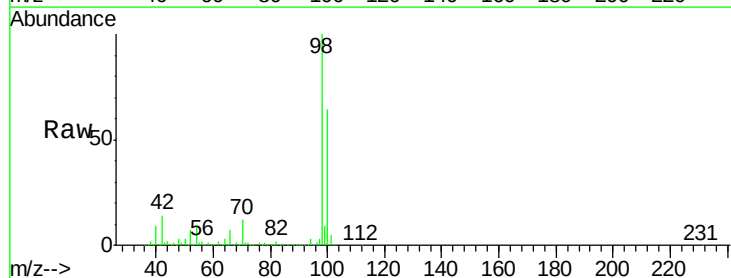
Instrument :
MSVOA_N
ClientSampleId :

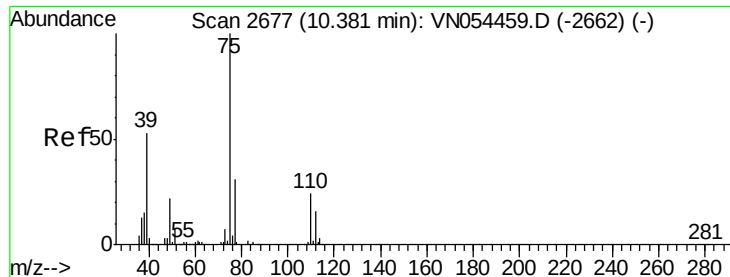
Tot Ion: 83 Resp: 6409
Ion Ratio Lower Upper
83 100
55 70.0 56.6 84.8
98 38.3 38.4 57.6#



#50
Toluene-d8
Concen: 50.347 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN054588.D
Acq: 23 Mar 2019 6:00

Tgt Ion: 98 Resp: 1055353
Ion Ratio Lower Upper
98 100
100 63.5 51.2 76.8





#53

t-1,3-Dichloropropene

Concen: 2.261 ug/l

RT: 10.25 min Scan# 2637

Delta R.T. -0.13 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

Instrument :

MSVOA_N

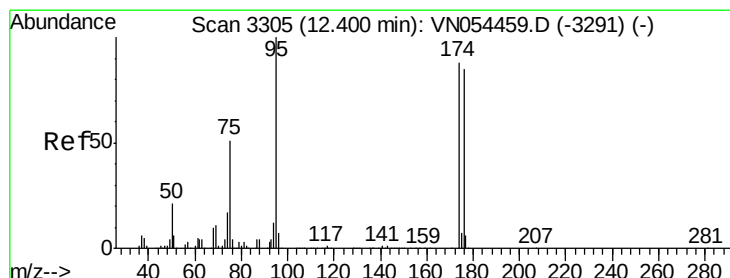
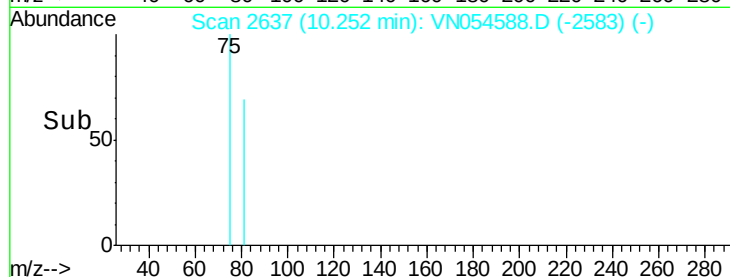
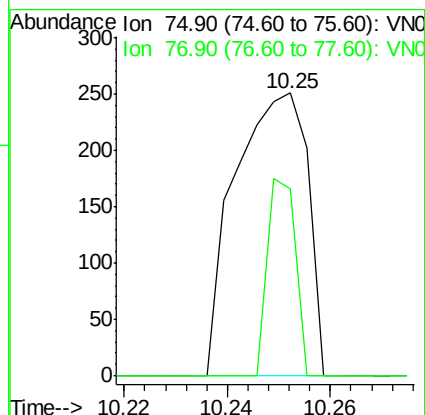
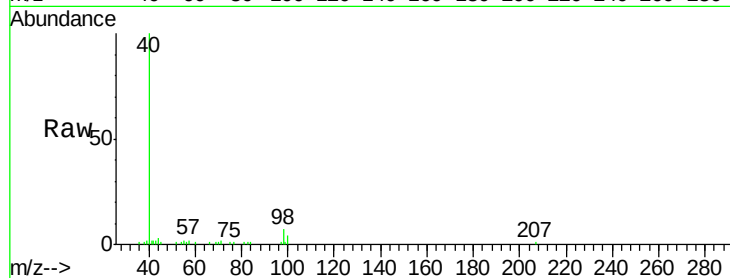
ClientSampled :

Tot Ion: 75 Resp: 244

Ion Ratio Lower Upper

75 100

77 66.1 25.8 38.8#



#62

4-Bromofluorobenzene

Concen: 48.581 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

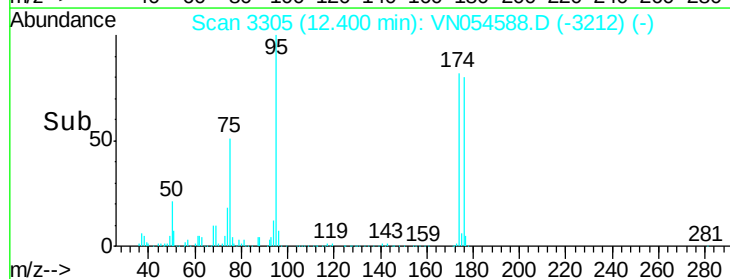
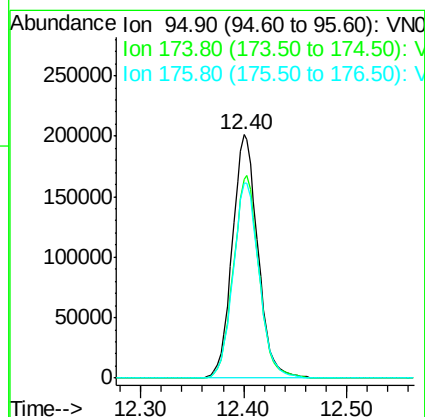
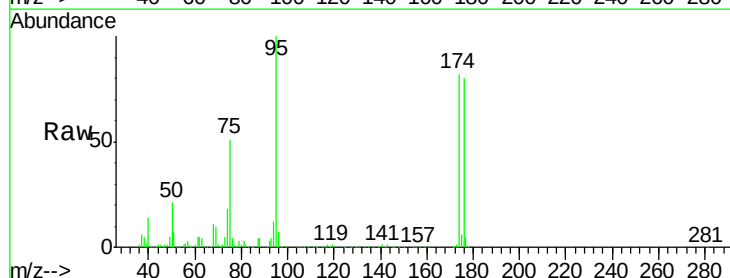
Tgt Ion: 95 Resp: 346520

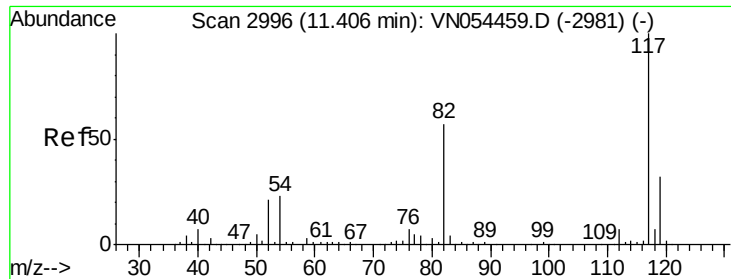
Ion Ratio Lower Upper

95 100

174 83.5 0.0 191.0

176 81.6 0.0 187.4

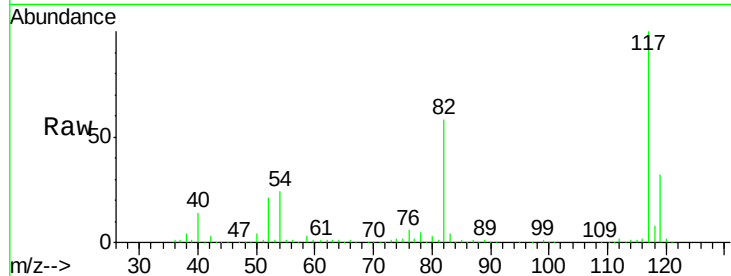




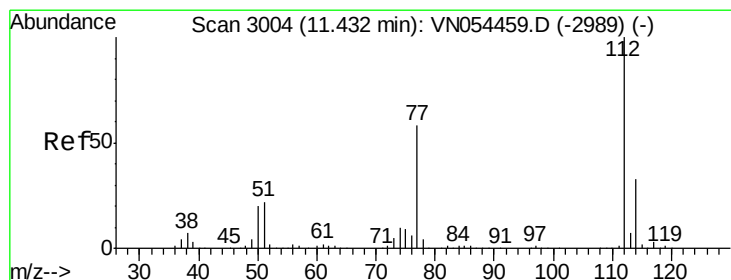
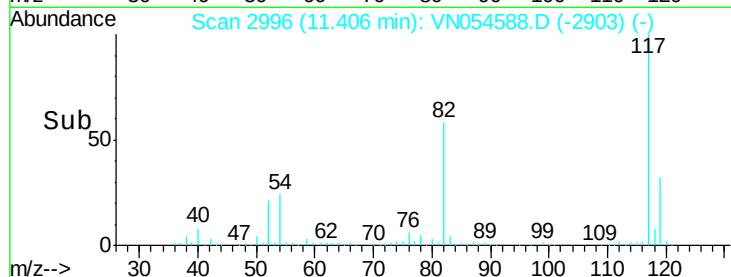
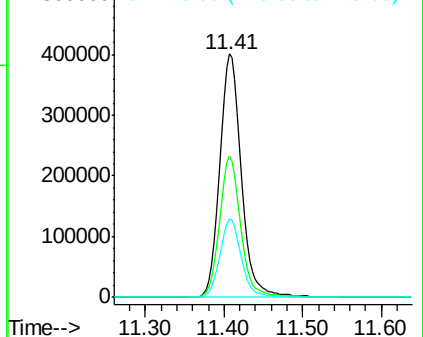
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054588.D
Acq: 23 Mar 2019 6:00

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 756159
Ion Ratio Lower Upper
117 100
82 57.9 40.0 60.0
119 32.0 25.8 38.6

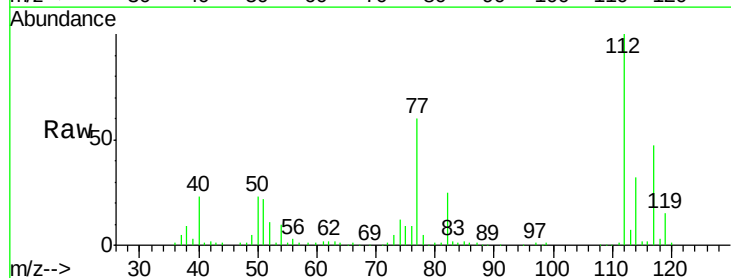


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

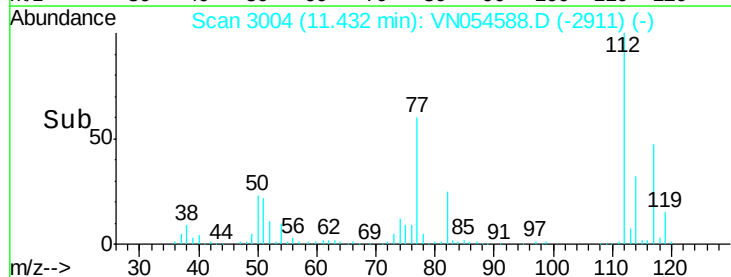
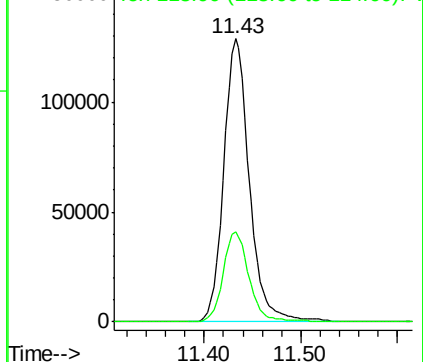


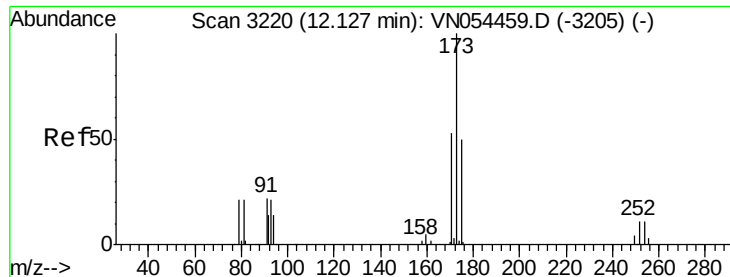
#65
Chlorobenzene
Concen: 15.396 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054588.D
Acq: 23 Mar 2019 6:00

Tgt Ion:112 Resp: 236775
Ion Ratio Lower Upper
112 100
114 31.8 25.9 38.9



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





#71

Bromoform

Concen: 3.086 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

Instrument :

MSVOA_N

ClientSampleId :

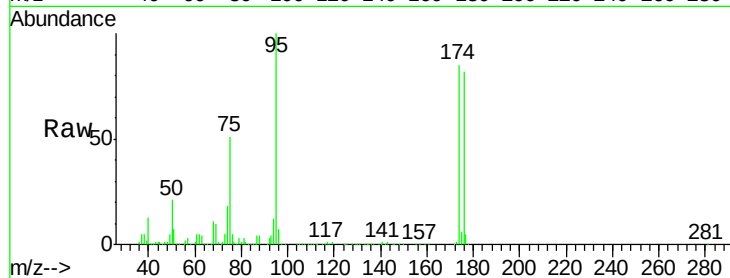
Tot Ion:173 Resp: 3447

Ion Ratio Lower Upper

173 100

175 531.9 24.4 73.2#

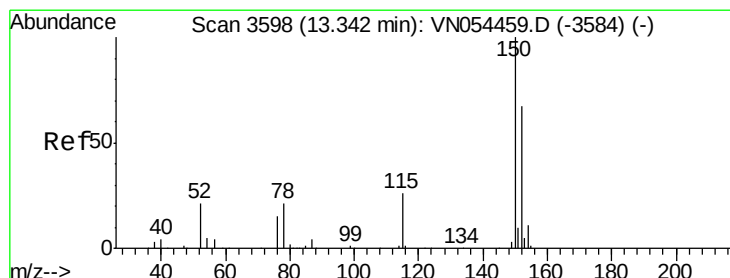
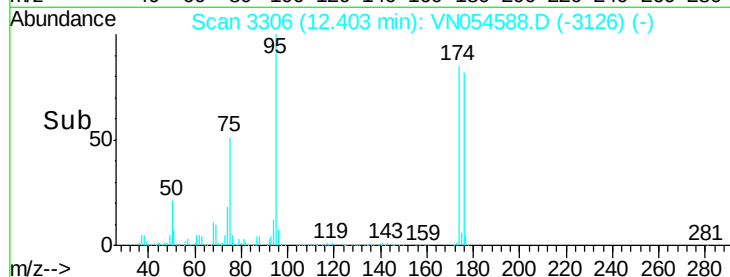
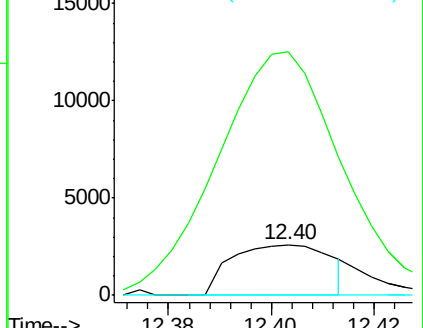
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

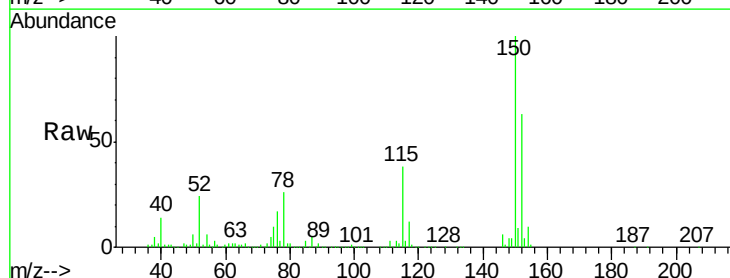
Tgt Ion:152 Resp: 328959

Ion Ratio Lower Upper

152 100

115 58.9 27.2 81.6

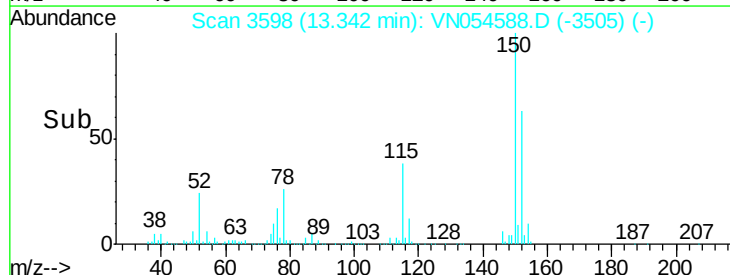
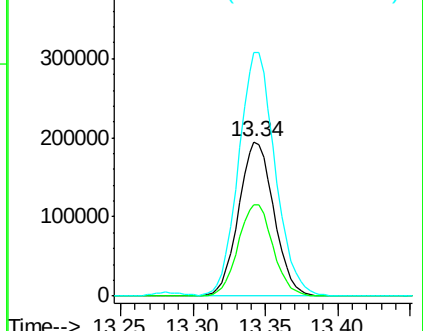
150 164.0 0.0 349.2

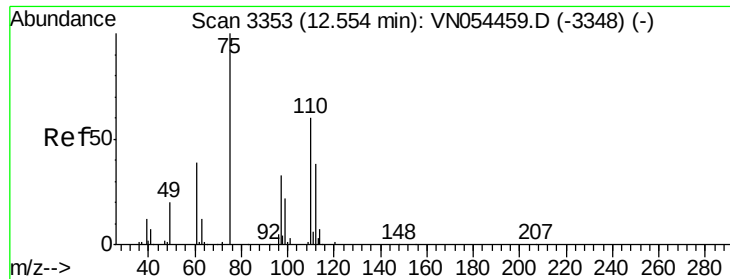


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 34.490 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

Instrument :

MSVOA_N

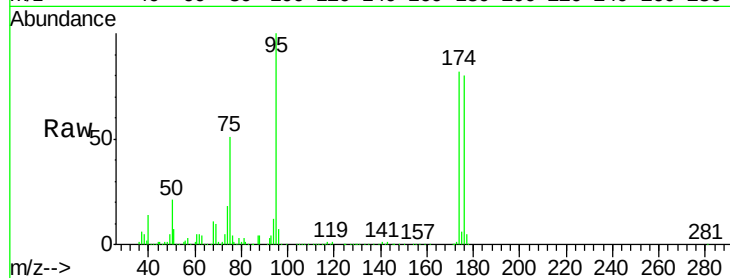
ClientSampleId :

Tot Ion: 75 Resp: 180038

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

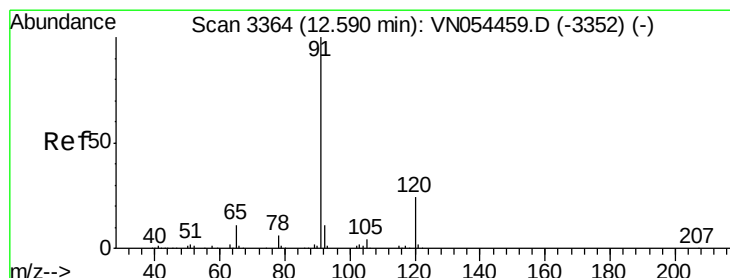
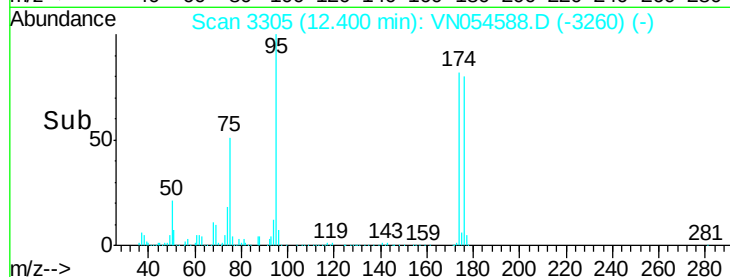
40000

20000

0

12.30 12.40 12.50

Time-->



#78

n-propylbenzene

Concen: 0.216 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054588.D

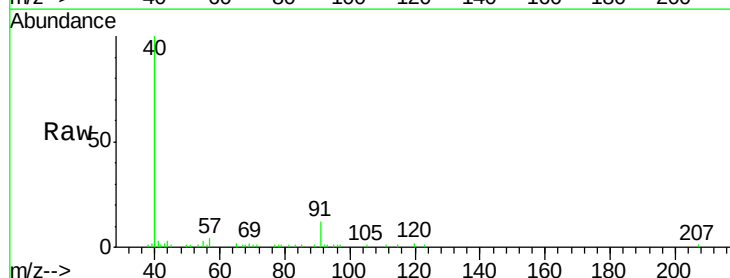
Acq: 23 Mar 2019 6:00

Tgt Ion: 91 Resp: 6220

Ion Ratio Lower Upper

91 100

120 16.3 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

3000

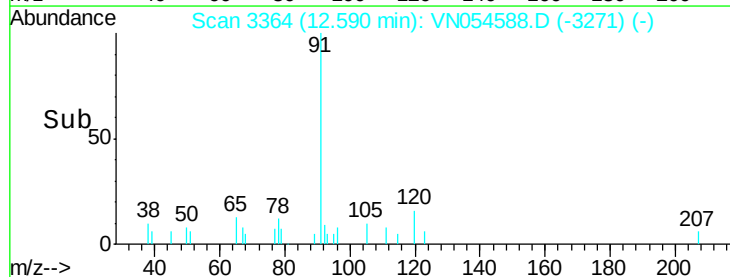
2000

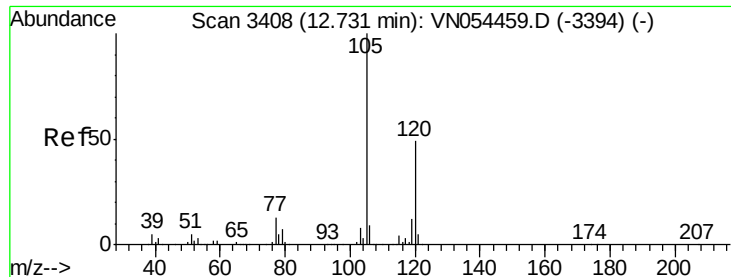
1000

0

12.50 12.55 12.60 12.65

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 0.206 ug/l

RT: 12.89 min Scan# 3458

Delta R.T. 0.16 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

Instrument :

MSVOA_N

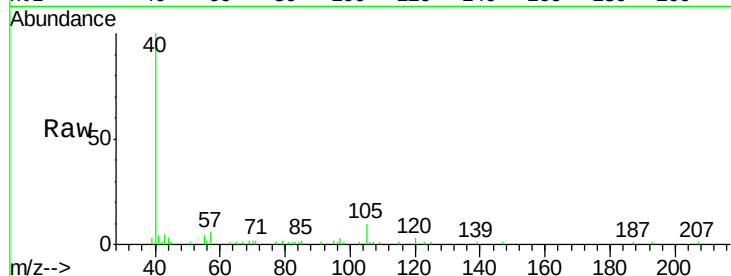
ClientSampled :

Tot Ion:105 Resp: 4467

Ion Ratio Lower Upper

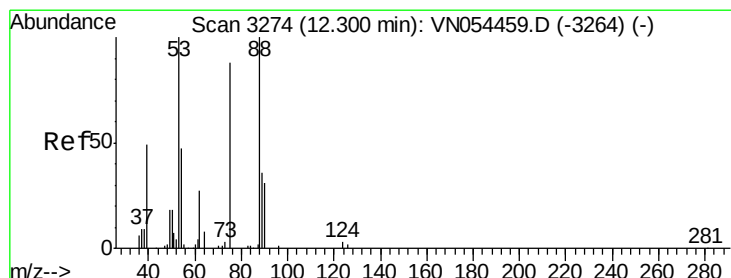
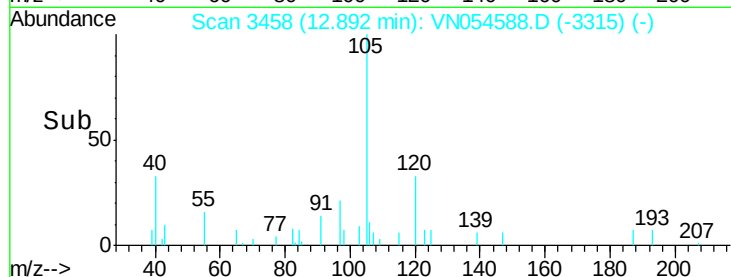
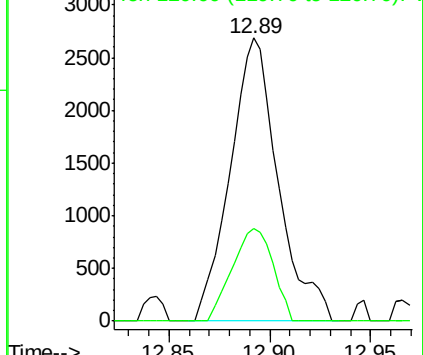
105 100

120 27.9 25.0 75.0



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: 114.527 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

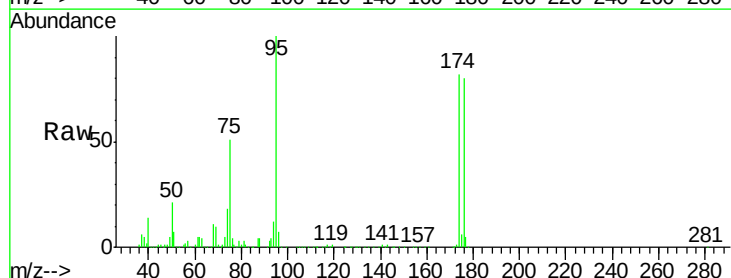
Tgt Ion: 75 Resp: 180038

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

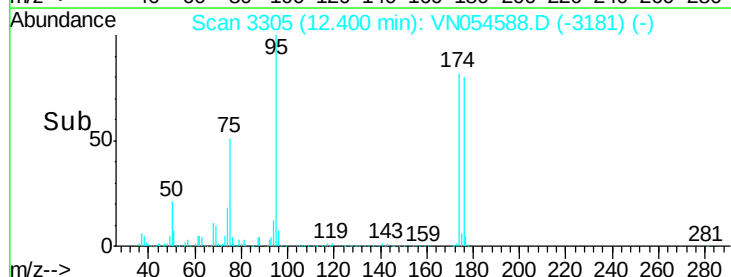
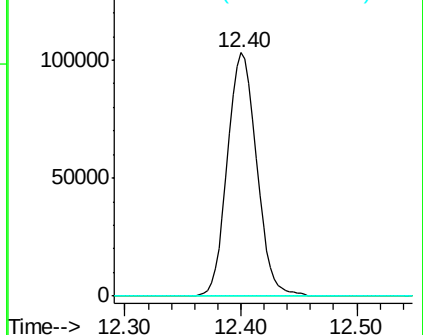
89 0.0 39.2 58.8#

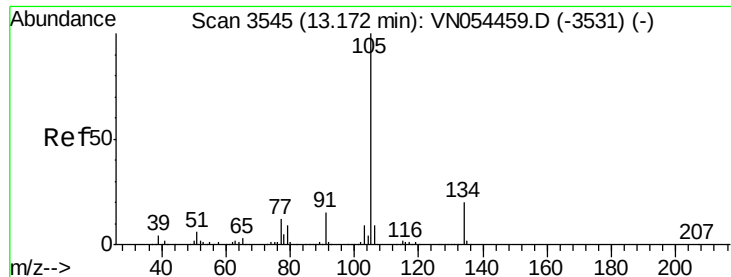


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#85

sec-Butylbenzene

Concen: 0.216 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

Instrument :

MSVOA_N

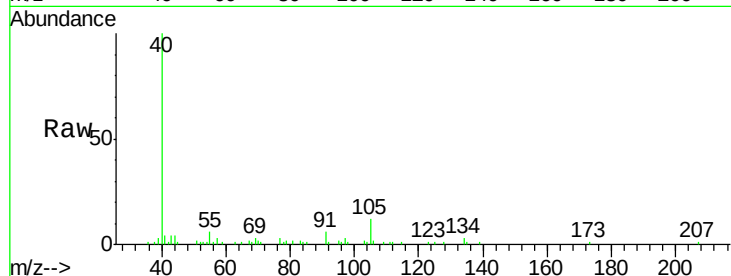
ClientSampleId :

Tot Ion:105 Resp: 5084

Ion Ratio Lower Upper

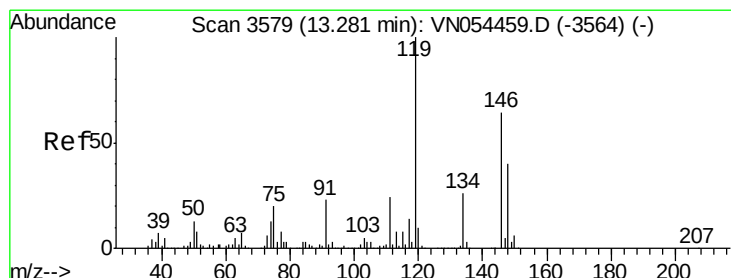
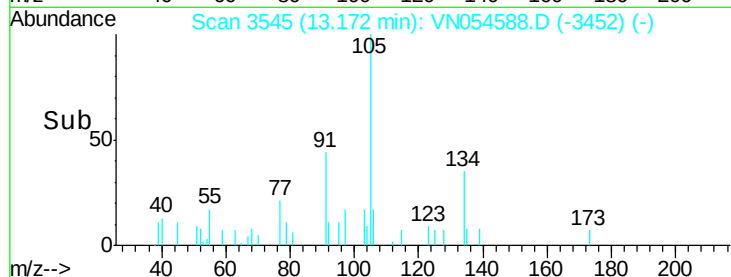
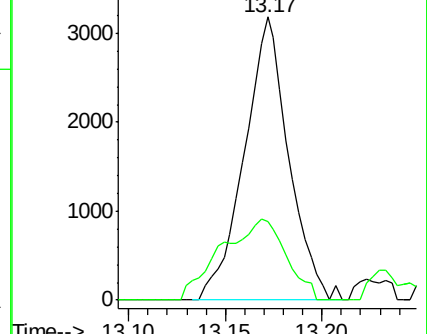
105 100

134 41.9 10.7 32.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 6.816 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

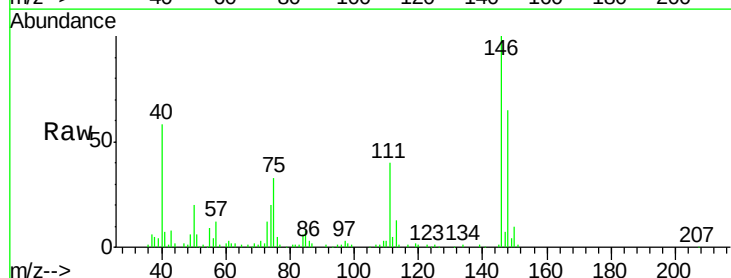
Tgt Ion:146 Resp: 74263

Ion Ratio Lower Upper

146 100

111 40.1 18.8 56.3

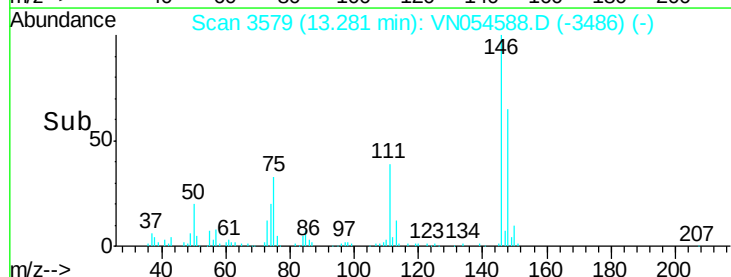
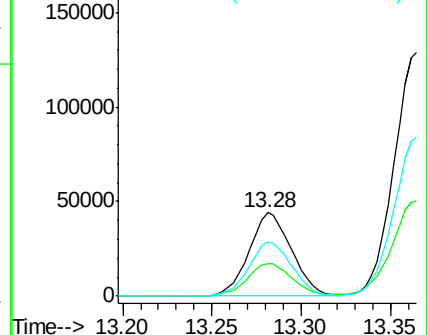
148 64.7 32.2 96.6

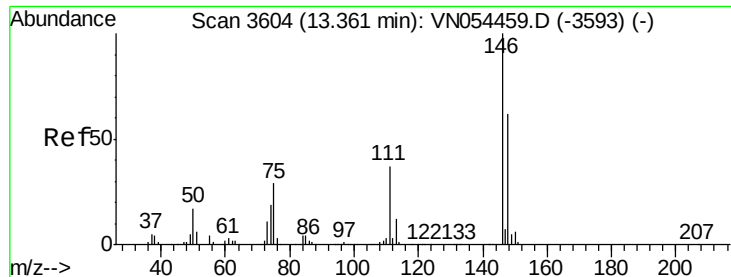


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

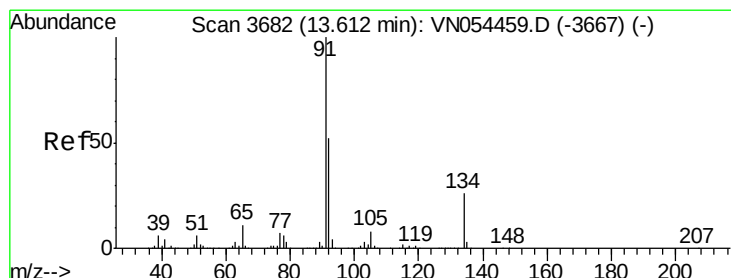
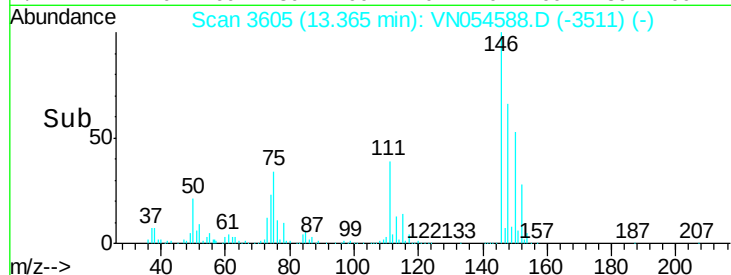
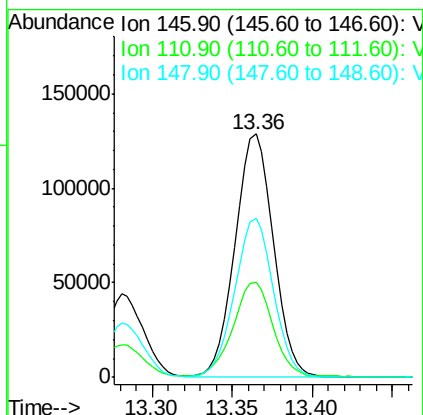
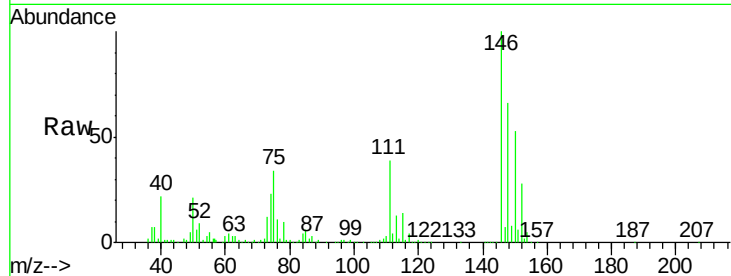




#88
 1,4-Dichlorobenzene
 Concen: 19.835 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN054588.D
 Acq: 23 Mar 2019 6:00

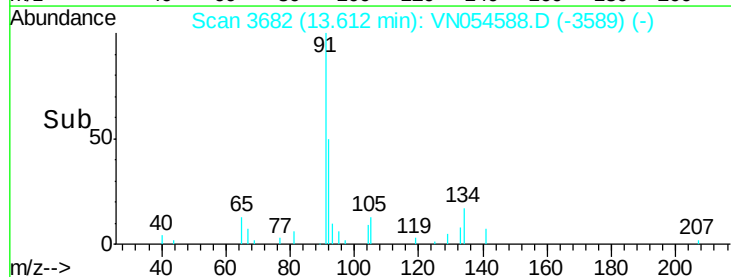
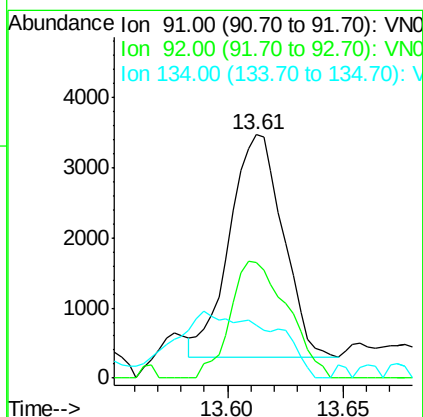
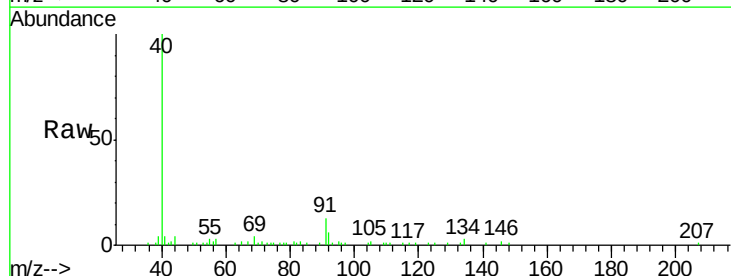
Instrument :
 MSVOA_N
 ClientSampleId :

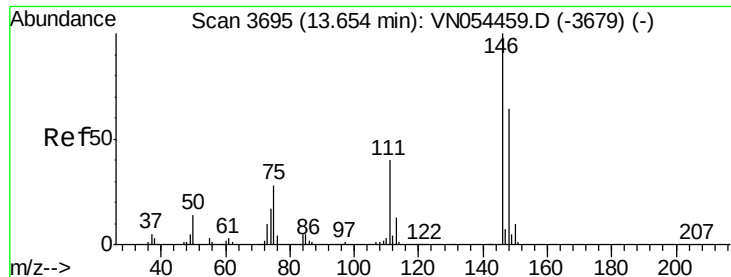
Tot Ion:146 Resp: 210256
 Ion Ratio Lower Upper
 146 100
 111 40.9 18.1 54.1
 148 66.2 32.0 96.0



#89
 n-Butylbenzene
 Concen: 0.306 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN054588.D
 Acq: 23 Mar 2019 6:00

Tgt Ion: 91 Resp: 5053
 Ion Ratio Lower Upper
 91 100
 92 56.3 26.2 78.6
 134 0.0 14.3 42.9#





#91

1,2-Dichlorobenzene

Concen: 59.184 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

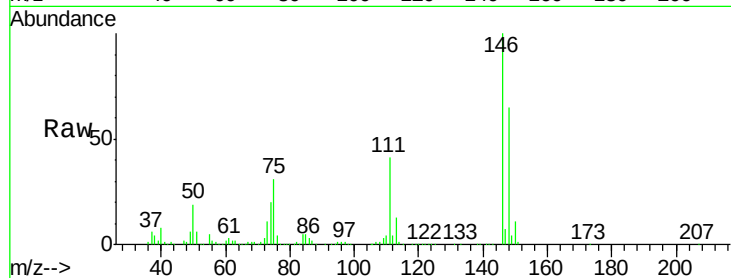
Instrument :

MSVOA_N

ClientSampled :

Tot Ion:146 Resp: 624547

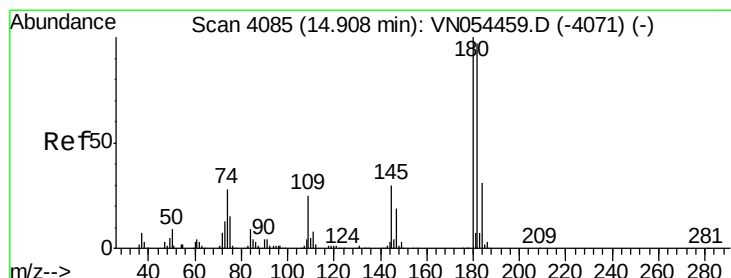
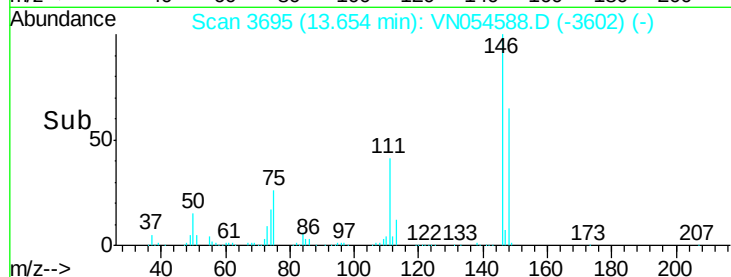
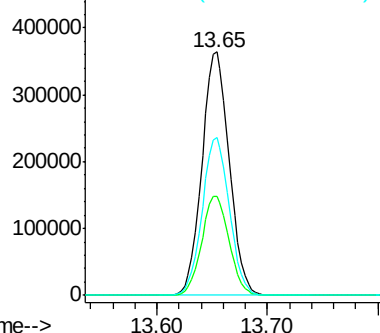
Ion	Ratio	Lower	Upper
146	100		
111	40.8	19.1	57.3
148	64.4	32.4	97.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 5.246 ug/l

RT: 14.91 min Scan# 4085

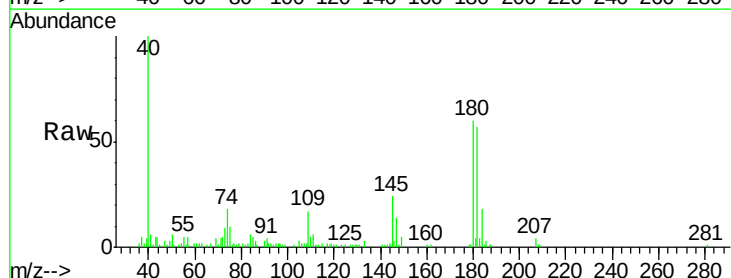
Delta R.T. 0.00 min

Lab File: VN054588.D

Acq: 23 Mar 2019 6:00

Tgt Ion:180 Resp: 27598

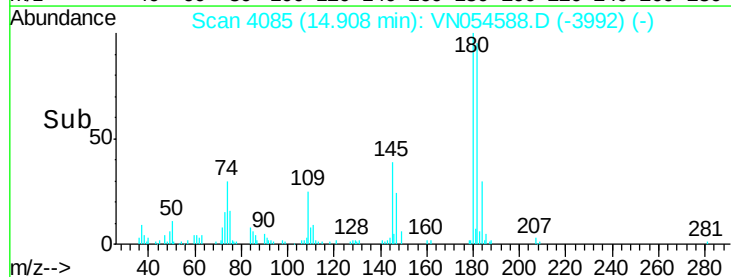
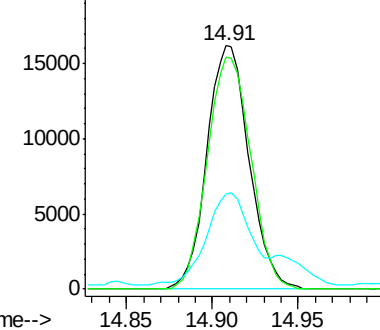
Ion	Ratio	Lower	Upper
180	100		
182	98.6	48.0	144.2
145	40.6	14.2	42.8

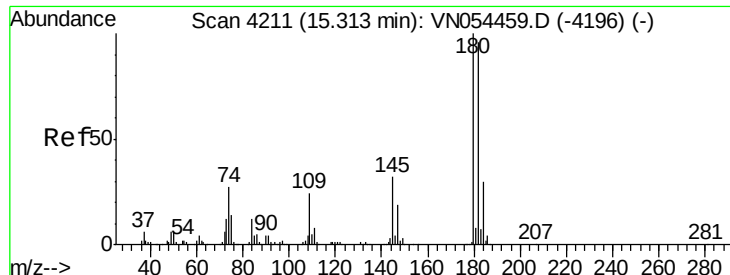


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

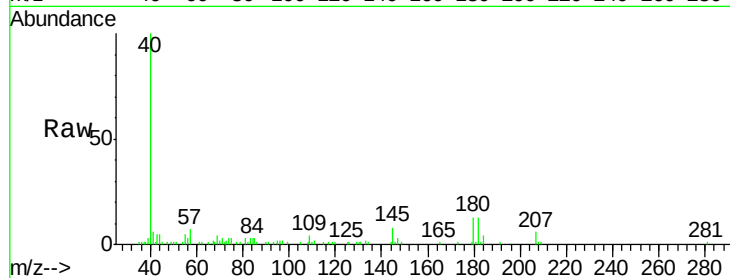




#96
 1,2,3-Trichlorobenzene
 Concen: 1.321 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN054588.D
 Acq: 23 Mar 2019 6:00

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	86.0	47.5	142.6
145	55.7	14.8	44.3



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

