

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054423.D
 Acq On : 19 Mar 2019 5:29
 Operator : JC/SP
 Sample : K1970-04 10X
 Misc : 6.33g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 07:53:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1906800	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2705880	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2284311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1017642	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	862555	42.59	ug/l	0.00
Spiked Amount			Recovery	=	85.18%	
35) Dibromofluoromethane	7.59	113	805531	46.16	ug/l	0.00
Spiked Amount			Recovery	=	92.32%	
50) Toluene-d8	10.09	98	3105807	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
62) 4-Bromofluorobenzene	12.40	95	981580	43.53	ug/l	0.00
Spiked Amount			Recovery	=	87.06%	

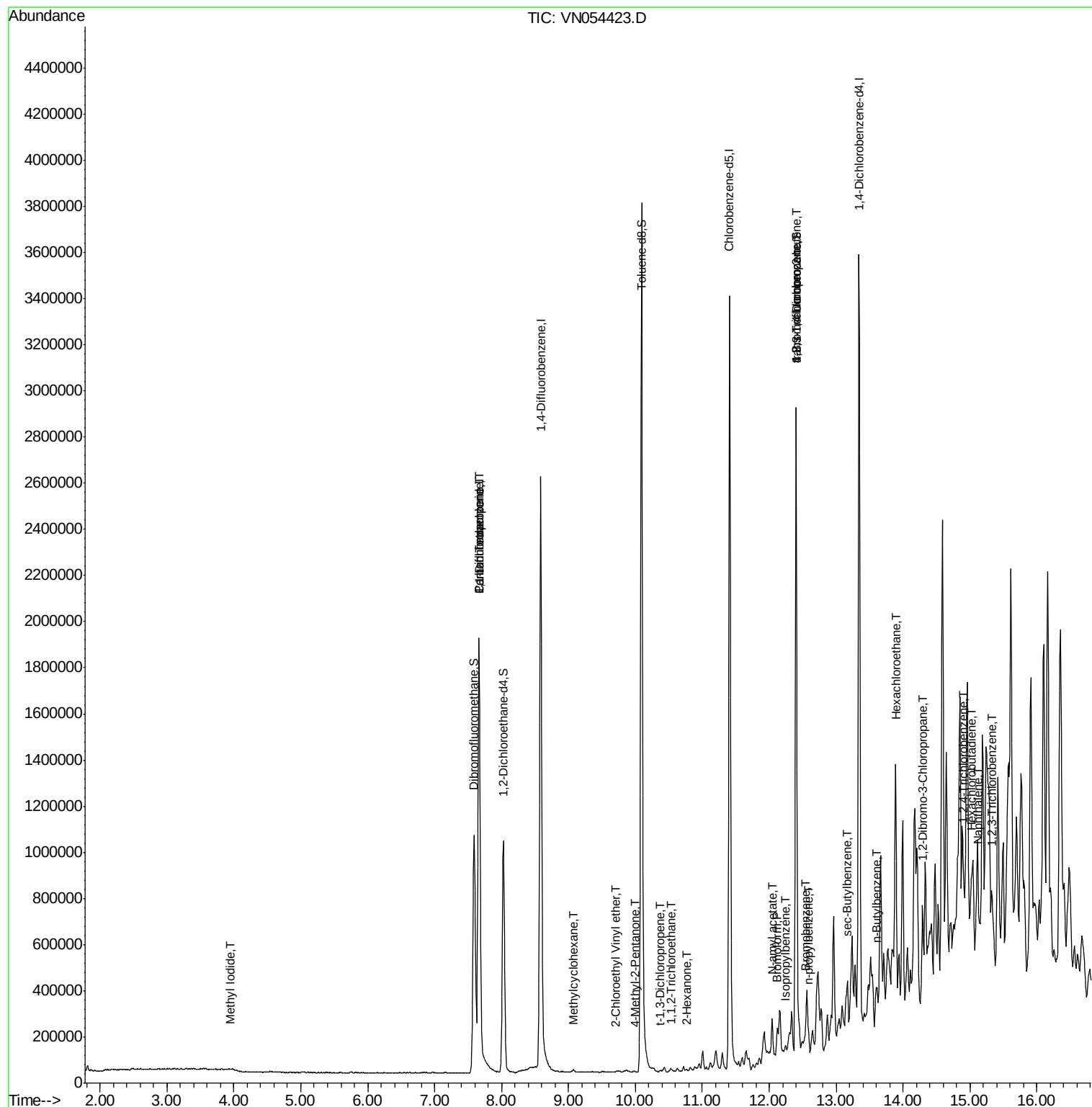
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.95	142	793	1.524	ug/l #	75
31) Cyclohexane	7.66	56	25818	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	108074	4.337	ug/l #	47
38) Carbon Tetrachloride	7.66	117	152656	5.842	ug/l #	16
39) Methylcyclohexane	9.08	83	6271	0.205	ug/l #	90
51) 4-Methyl-2-Pentanone	10.00	43	2754	0.207	ug/l	90
53) t-1,3-Dichloropropene	10.37	75	563	2.006	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	5907	0.358	ug/l #	20
58) 2-Chloroethyl Vinyl ether	9.70	63	111	16.840	ug/l #	44
59) 2-Hexanone	10.75	43	5078	0.574	ug/l	78
71) Bromoform	12.13	173	208	2.365	ug/l #	28
73) Isopropylbenzene	12.25	105	23867	0.293	ug/l	97
74) N-amyl acetate	12.04	43	32199	1.782	ug/l #	60
76) 1,2,3-Trichloropropane	12.40	75	462730	30.921	ug/l #	100
77) Bromobenzene	12.54	156	35029	1.626	ug/l #	1
78) n-propylbenzene	12.59	91	44404	0.503	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	462730	105.702	ug/l #	11
85) sec-Butylbenzene	13.17	105	103953	1.286	ug/l	91
89) n-Butylbenzene	13.61	91	76390	1.418	ug/l #	79
90) Hexachloroethane	13.89	117	47978	4.086	ug/l #	2
92) 1,2-Dibromo-3-Chloropropan	14.29	75	2070	0.771	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	8313	2.885	ug/l #	1
94) Hexachlorobutadiene	15.01	225	2895	0.214	ug/l	88
95) Naphthalene	15.13	128	42664	4.359	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	9813	0.520	ug/l #	1

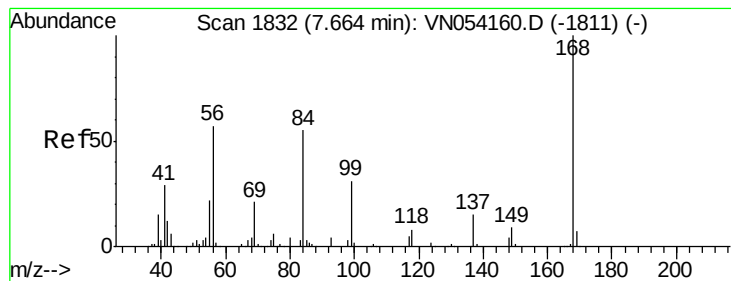
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Mar 19 07:53:27 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

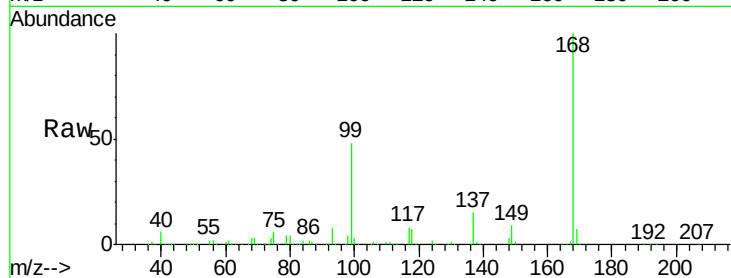
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1906800

Ion Ratio Lower Upper

168 100

99 47.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

800000

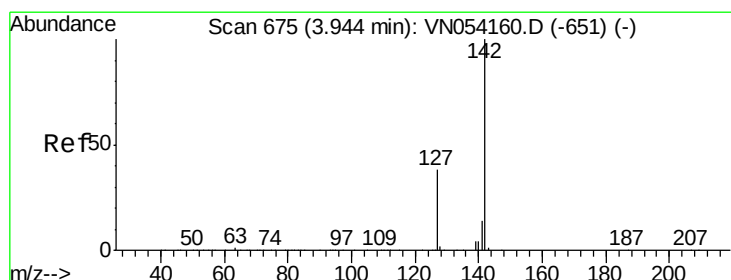
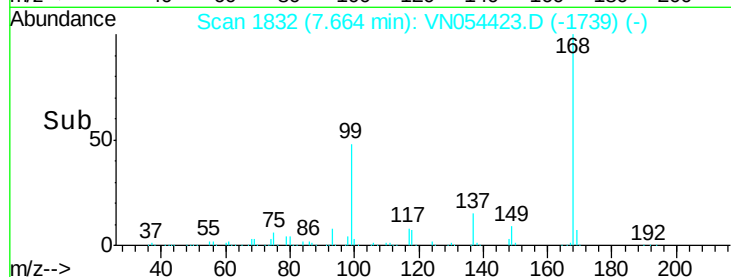
600000

400000

200000

0

Time-->



#10

Methyl Iodide

Concen: 1.524 ug/l

RT: 3.95 min Scan# 677

Delta R.T. 0.01 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

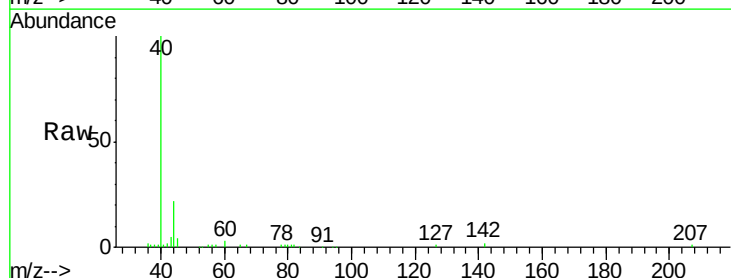
Tgt Ion:142 Resp: 793

Ion Ratio Lower Upper

142 100

127 25.2 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.95

800

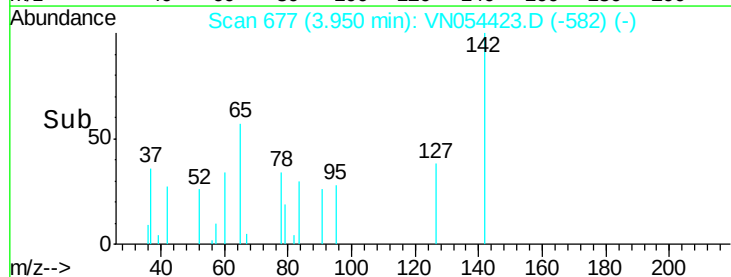
600

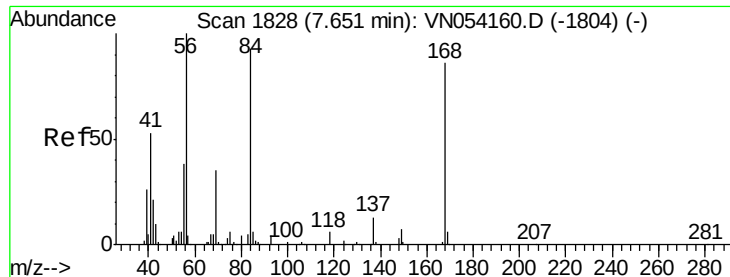
400

200

0

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampled :

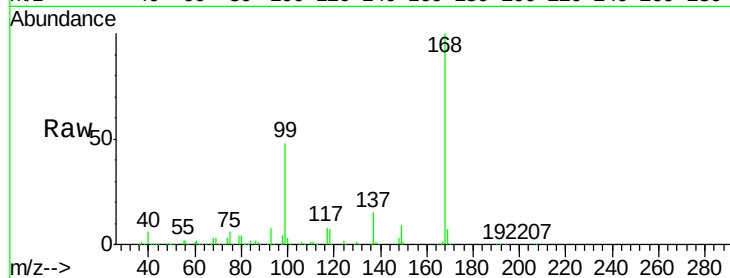
Tot Ion: 56 Resp: 25818

Ion Ratio Lower Upper

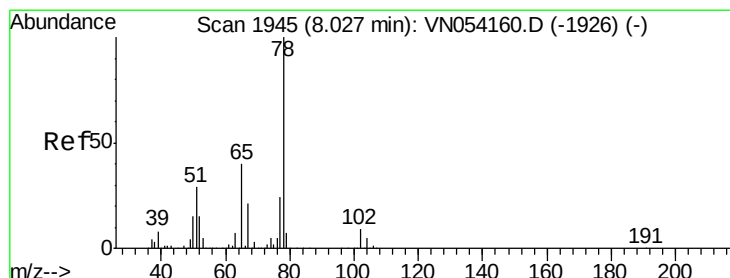
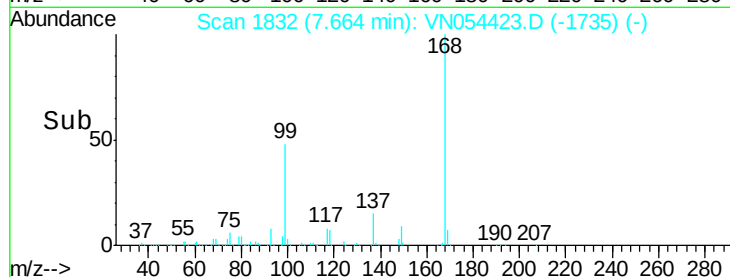
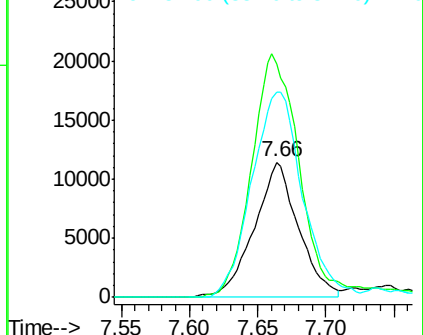
56 100

69 173.4 27.8 41.6#

84 152.1 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: 42.595 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054423.D

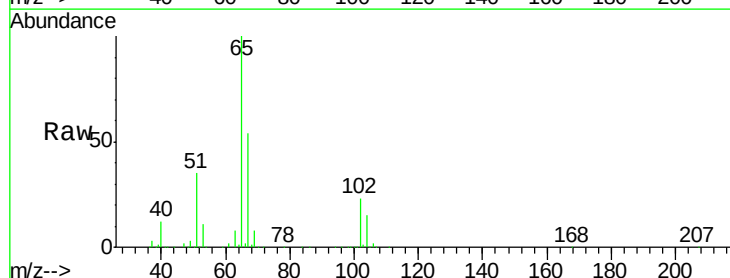
Acq: 19 Mar 2019 5:29

Tgt Ion: 65 Resp: 862555

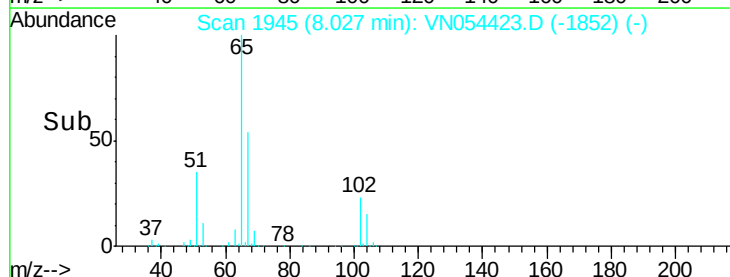
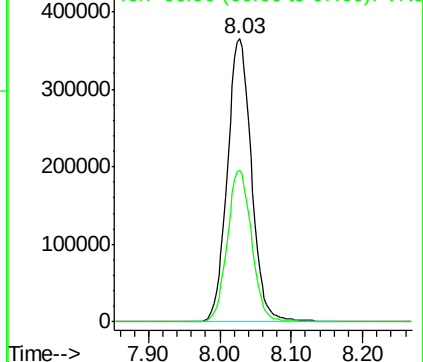
Ion Ratio Lower Upper

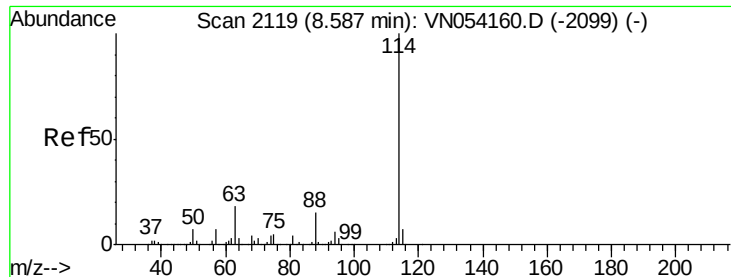
65 100

67 53.9 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: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

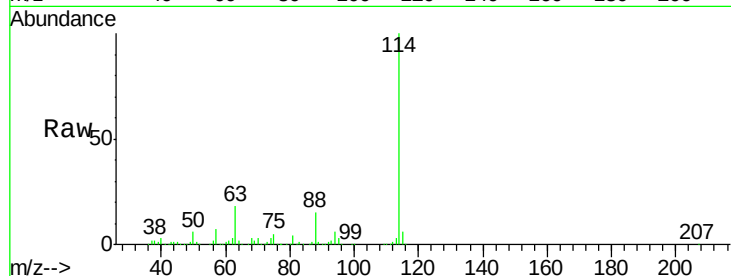
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:114 Resp: 2705880

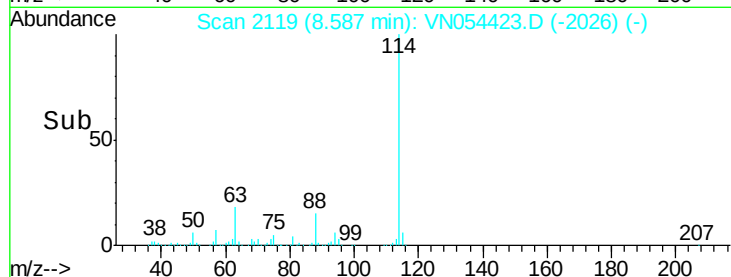
Ion	Ratio	Lower	Upper
114	100		
63	17.9	0.0	35.2
88	14.6	0.0	30.2



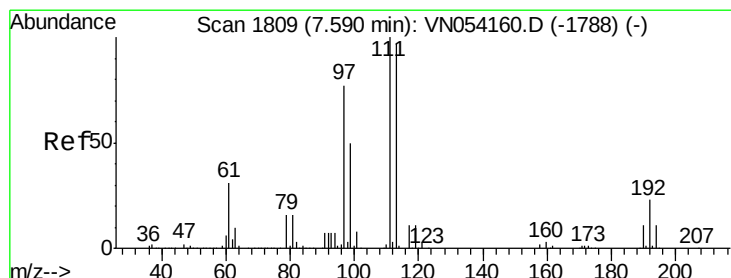
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



Time--> 8.40 8.50 8.60 8.70 8.80



#35

Dibromofluoromethane

Concen: 46.157 ug/l

RT: 7.59 min Scan# 1809

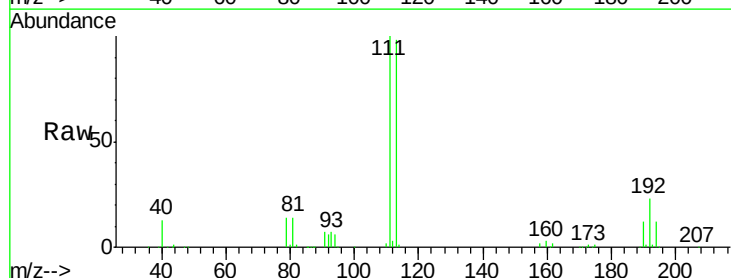
Delta R.T. 0.00 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

Tgt Ion:113 Resp: 805531

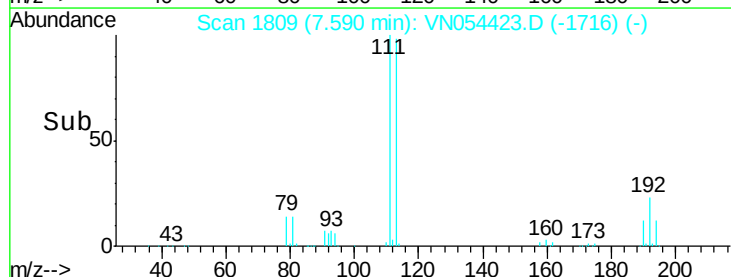
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.2	123.4
192	23.7	19.2	28.8



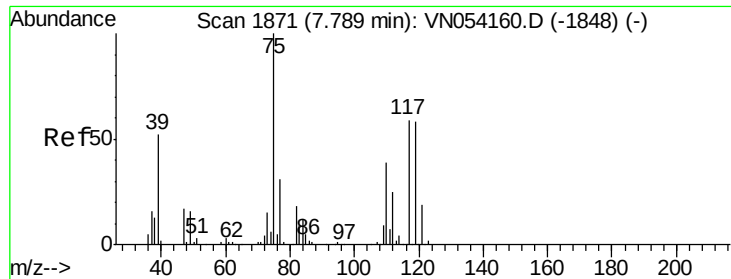
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



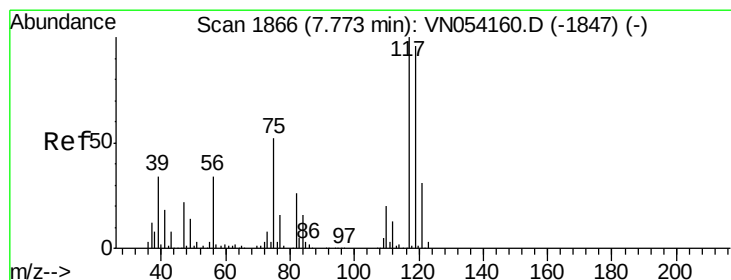
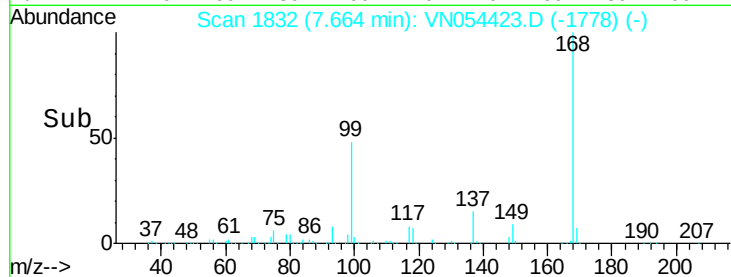
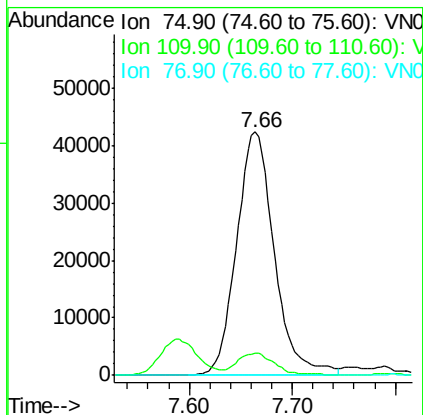
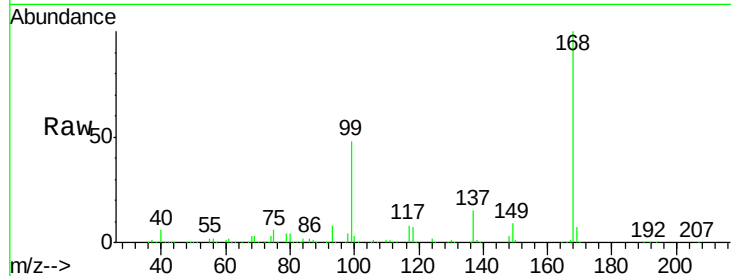
Time--> 7.50 7.60 7.70



#36
 1,1-Dichloropropene
 Concen: 4.337 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054423.D
 Acq: 19 Mar 2019 5:29

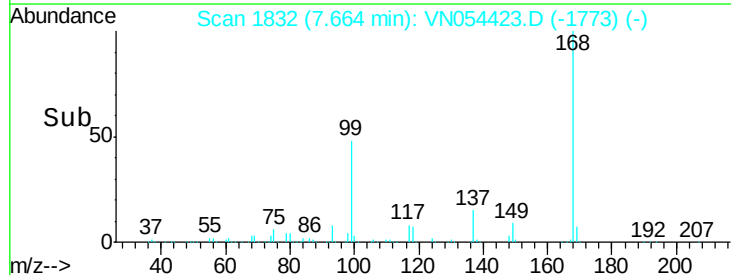
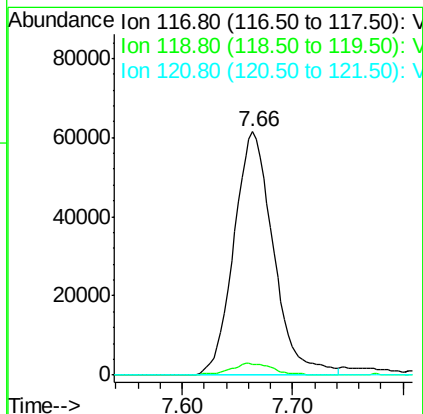
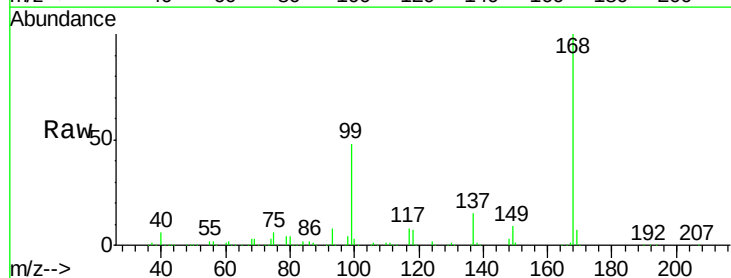
Instrument :
 MSVOA_N
 ClientSampled :

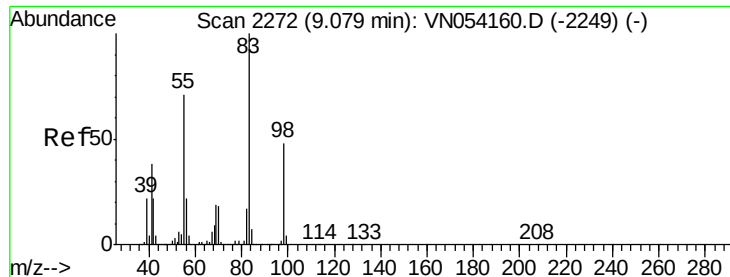
Tot Ion	75	Resp	108074
Ion Ratio	Lower	Upper	
75	100		
110	7.9	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.842 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054423.D
 Acq: 19 Mar 2019 5:29

Tgt Ion	117	Resp	152656
Ion Ratio	Lower	Upper	
117	100		
119	4.6	76.3	114.5#
121	0.0	24.6	36.8#

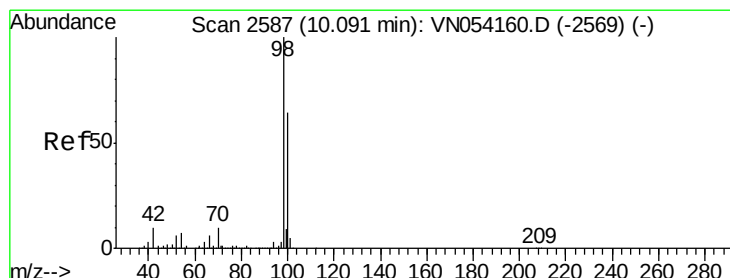
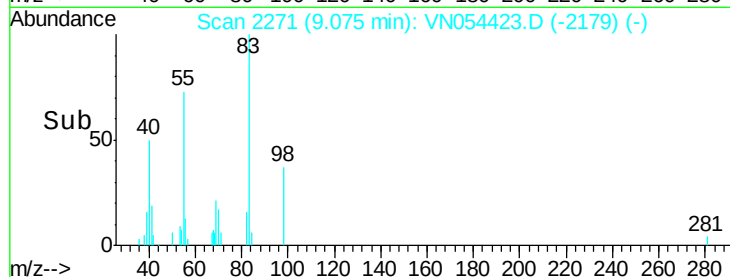
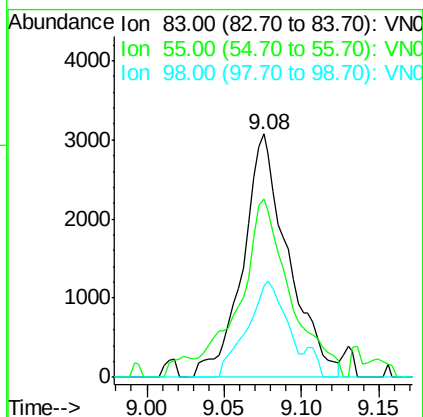
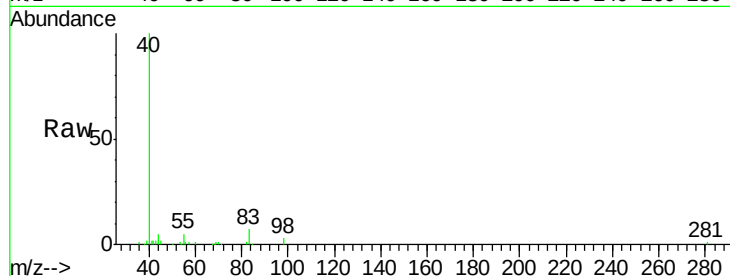




#39
Methylcyclohexane
Concen: 0.205 ug/l
RT: 9.08 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VN054423.D
Acq: 19 Mar 2019 5:29

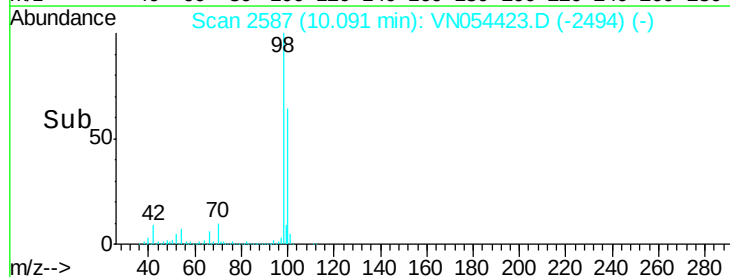
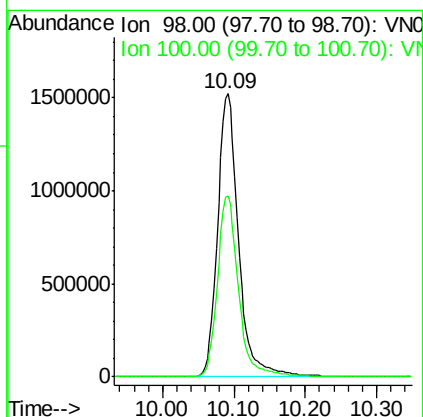
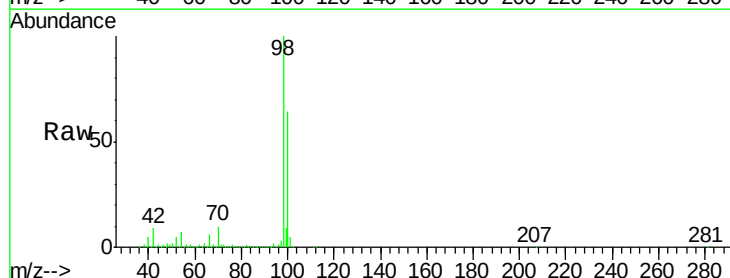
Instrument :
MSVOA_N
ClientSampleId :

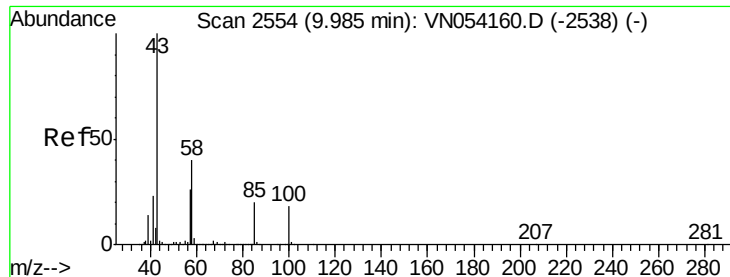
Tot Ion: 83 Resp: 6271
Ion Ratio Lower Upper
83 100
55 66.2 56.6 84.8
98 37.3 38.4 57.6#



#50
Toluene-d8
Concen: 48.188 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054423.D
Acq: 19 Mar 2019 5:29

Tgt Ion: 98 Resp: 3105807
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 0.207 ug/l

RT: 10.00 min Scan# 2558

Delta R.T. 0.01 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

Instrument :

MSVOA_N

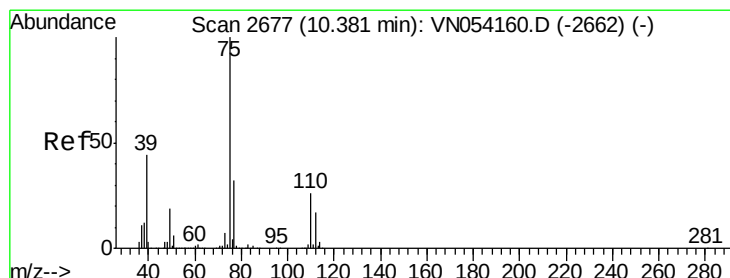
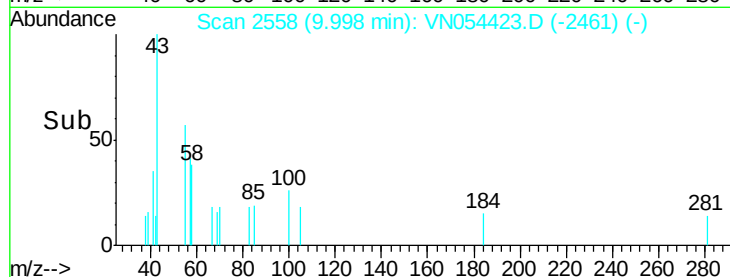
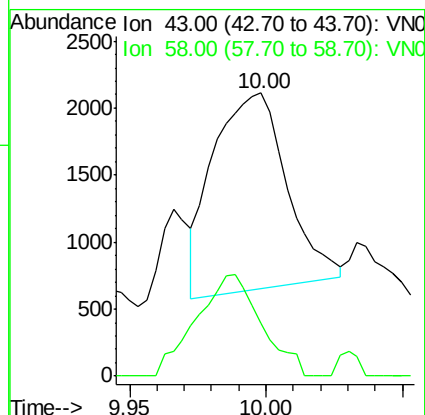
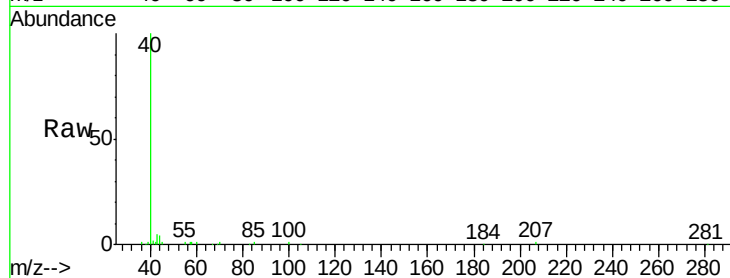
ClientSampled :

Tot Ion: 43 Resp: 2754

Ion Ratio Lower Upper

43 100

58 45.6 31.8 47.6



#53

t-1,3-Dichloropropene

Concen: 2.006 ug/l

RT: 10.37 min Scan# 2673

Delta R.T. -0.01 min

Lab File: VN054423.D

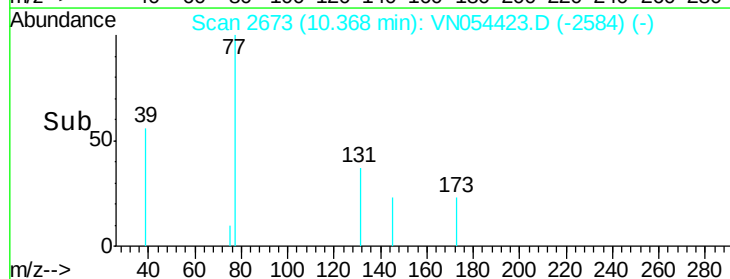
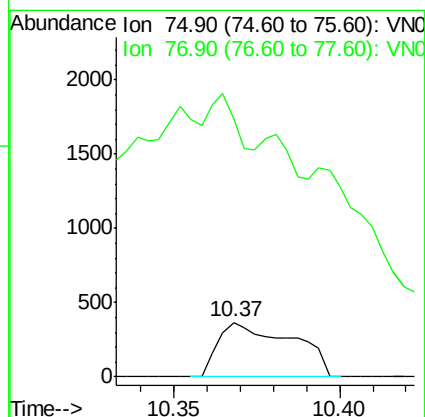
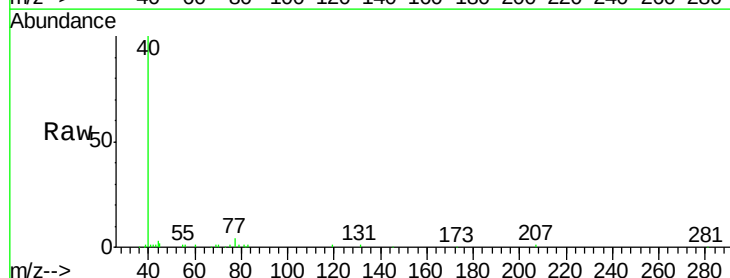
Acq: 19 Mar 2019 5:29

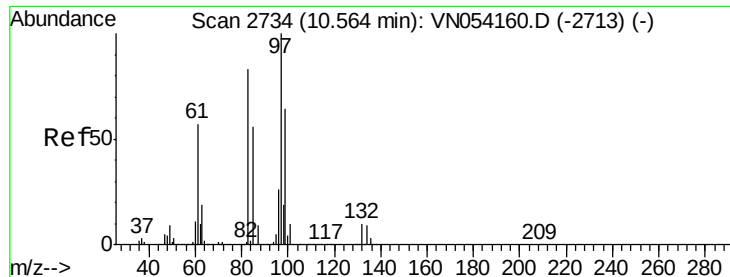
Tgt Ion: 75 Resp: 563

Ion Ratio Lower Upper

75 100

77 123.1 25.8 38.8#

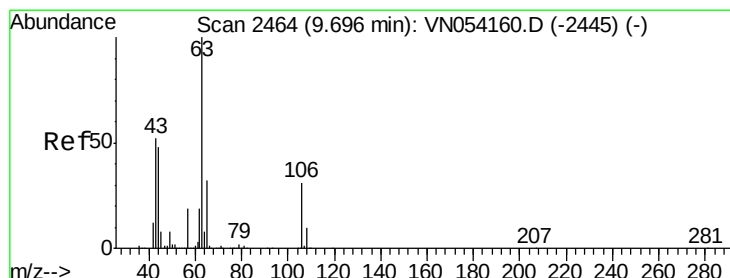
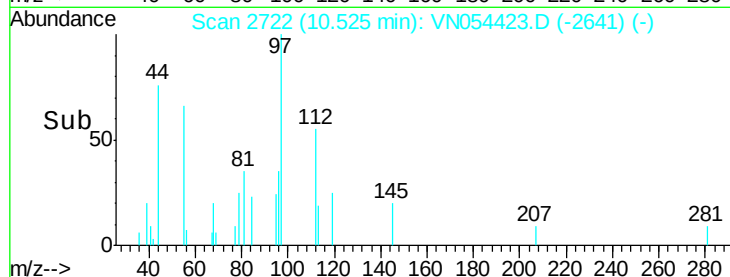
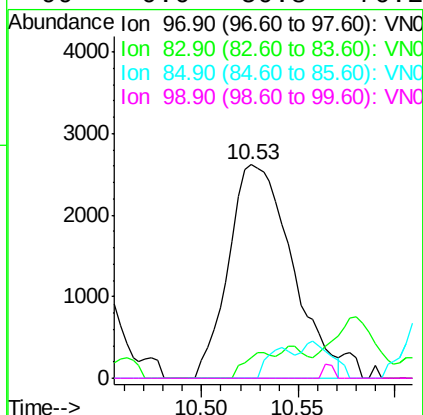
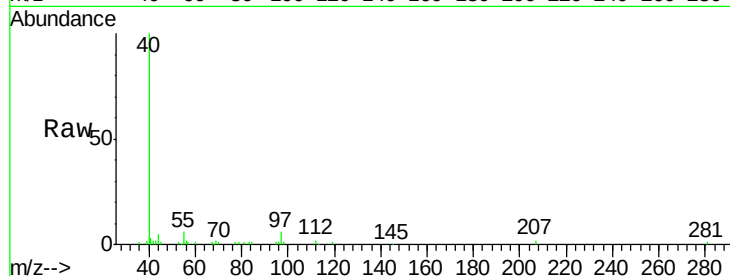




#55
 1,1,2-Trichloroethane
 Concen: 0.358 ug/l
 RT: 10.53 min Scan# 2722
 Delta R.T. -0.04 min
 Lab File: VN054423.D
 Acq: 19 Mar 2019 5:29

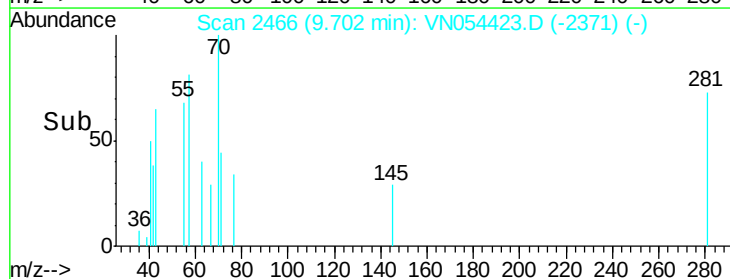
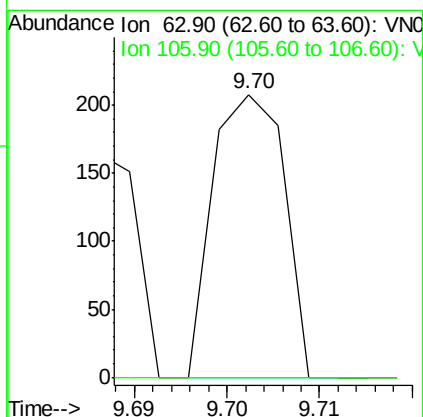
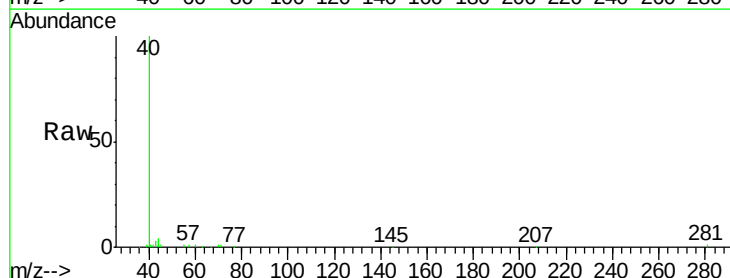
Instrument :
 MSVOA_N
 ClientSampleId :

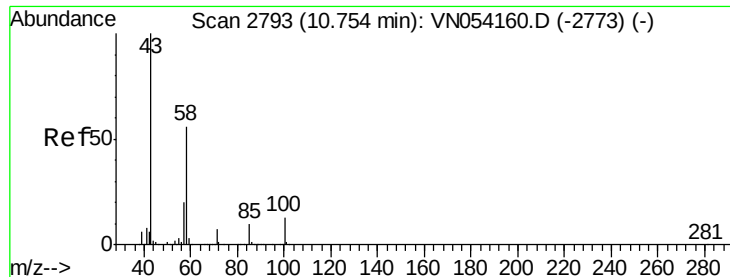
Tot Ion	Ratio	Lower	Upper
97	100		
83	9.9	66.6	100.0#
85	0.0	44.4	66.6#
99	0.0	50.8	76.2#



#58
 2-Chloroethyl Vinyl ether
 Concen: 16.840 ug/l
 RT: 9.70 min Scan# 2466
 Delta R.T. 0.01 min
 Lab File: VN054423.D
 Acq: 19 Mar 2019 5:29

Tgt Ion	Ratio	Lower	Upper
63	100		
106	0.0	24.4	36.6#

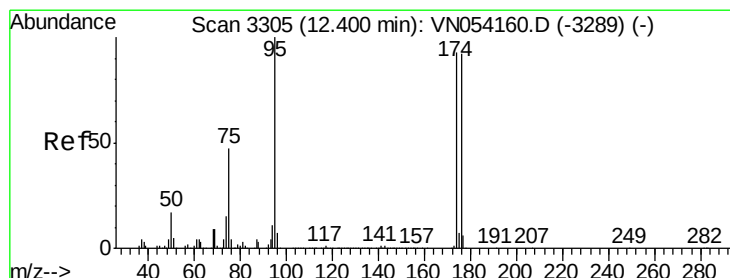
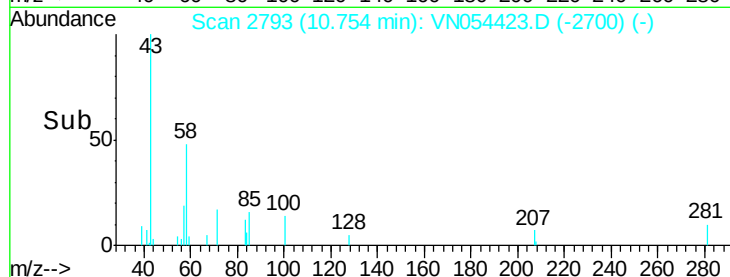
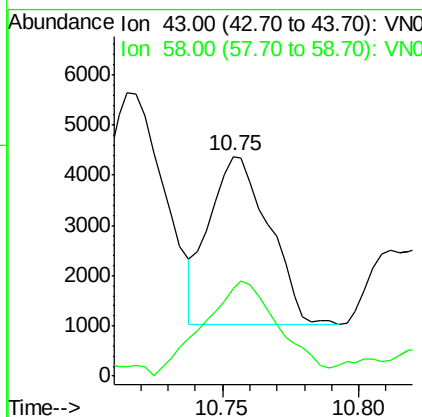
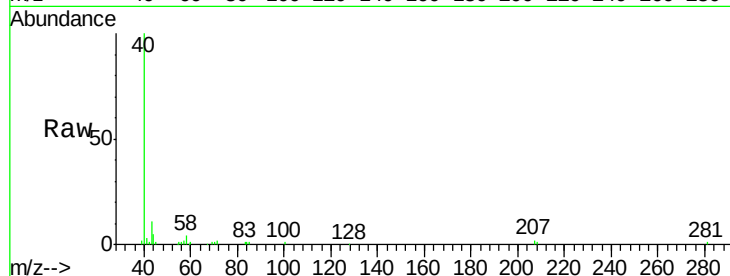




#59
2-Hexanone
Concen: 0.574 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054423.D
Acq: 19 Mar 2019 5:29

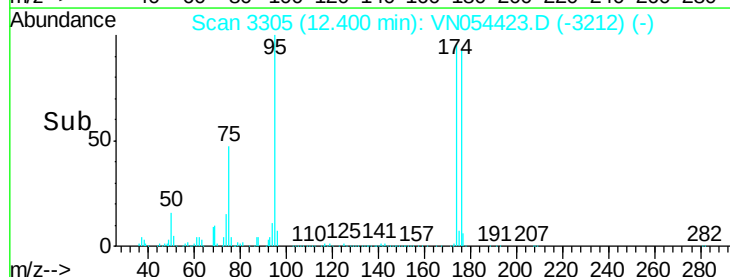
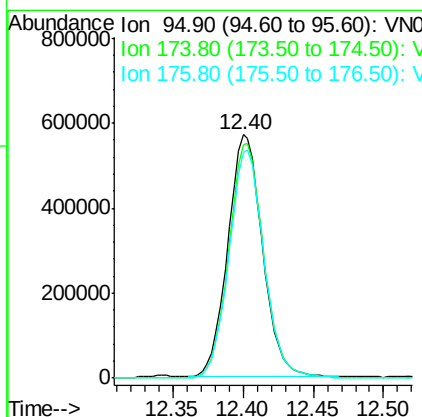
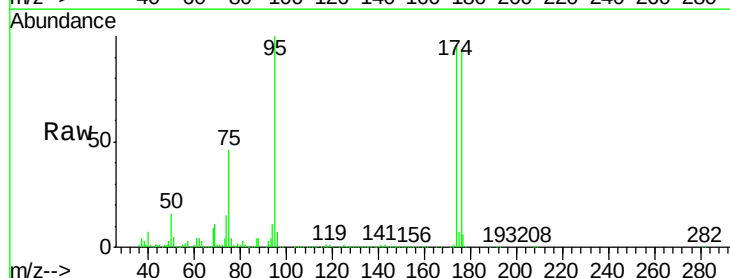
Instrument :
MSVOA_N
ClientSampleId :

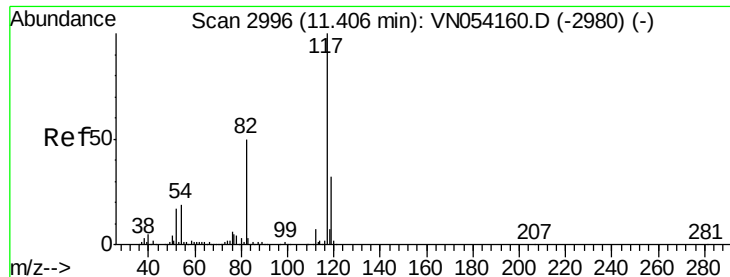
Tot Ion: 43 Resp: 5078
Ion Ratio Lower Upper
43 100
58 71.9 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 43.525 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054423.D
Acq: 19 Mar 2019 5:29

Tgt Ion: 95 Resp: 981580
Ion Ratio Lower Upper
95 100
174 97.6 0.0 191.0
176 94.9 0.0 187.4

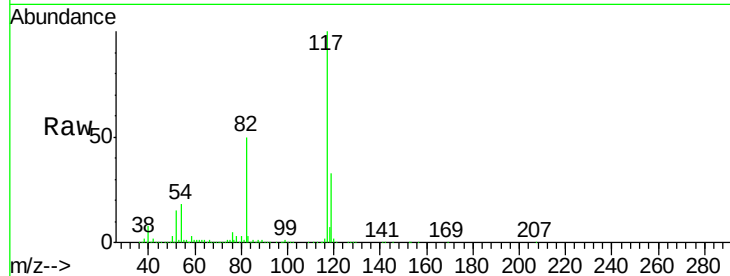




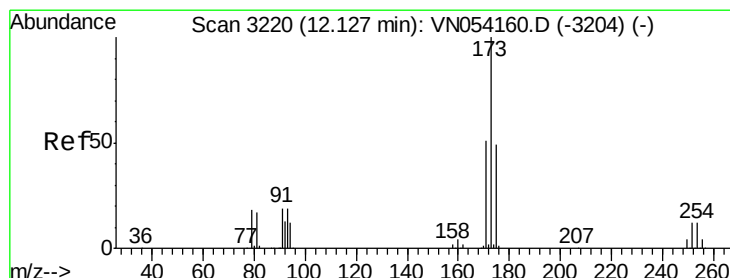
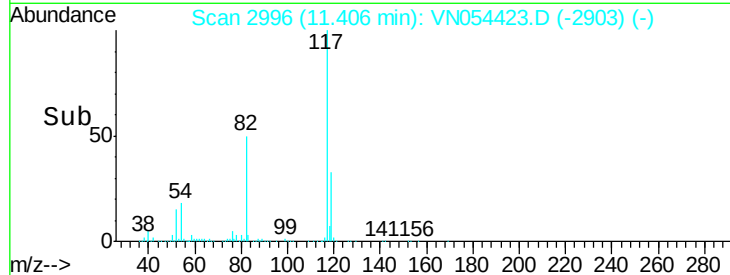
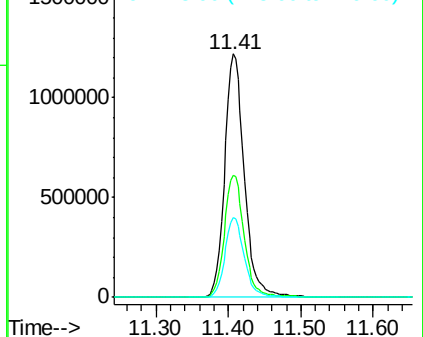
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054423.D
Acq: 19 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 2284311
Ion Ratio Lower Upper
117 100
82 50.3 40.0 60.0
119 32.6 25.8 38.6

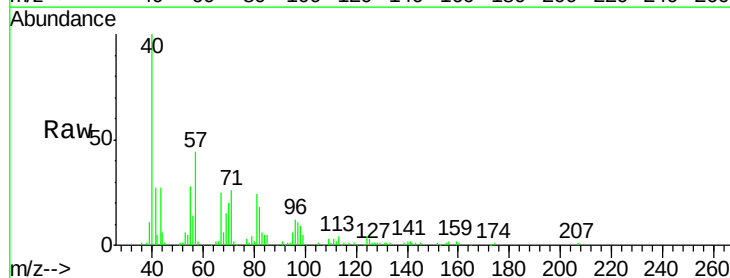


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

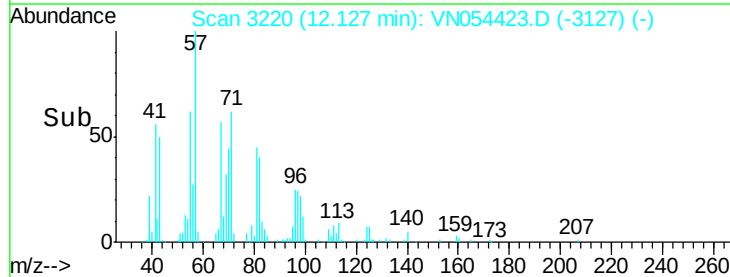
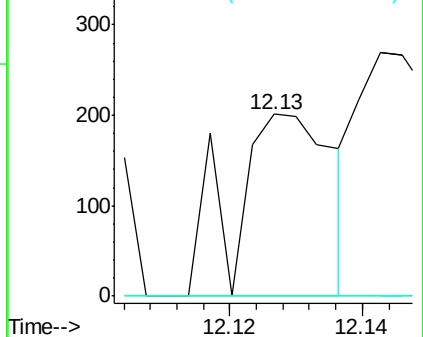


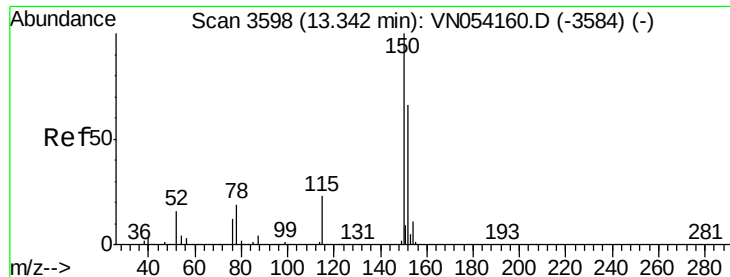
#71
Bromoform
Concen: 2.365 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054423.D
Acq: 19 Mar 2019 5:29

Tgt Ion:173 Resp: 208
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#



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



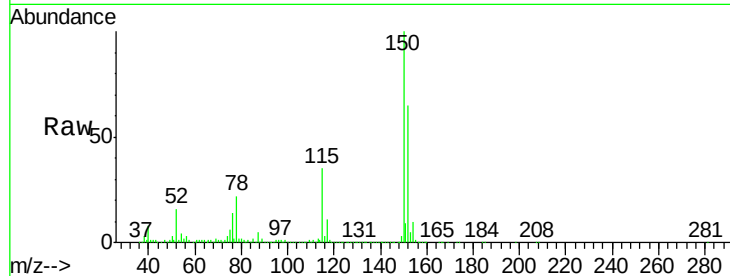


#72

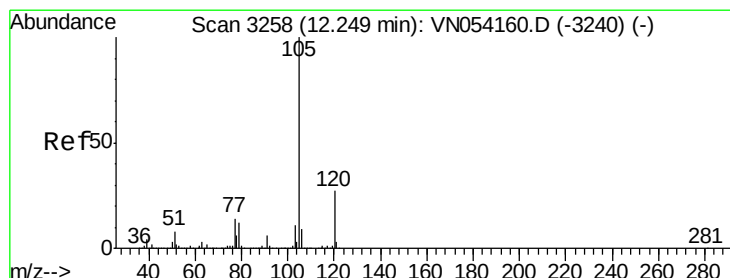
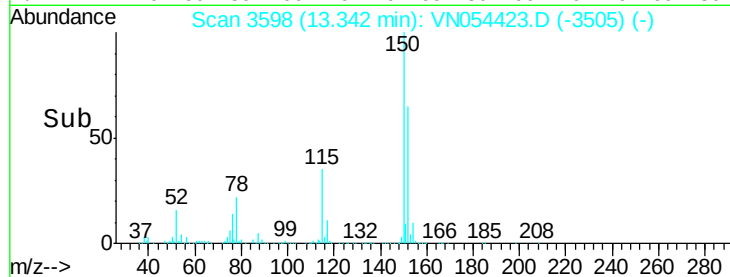
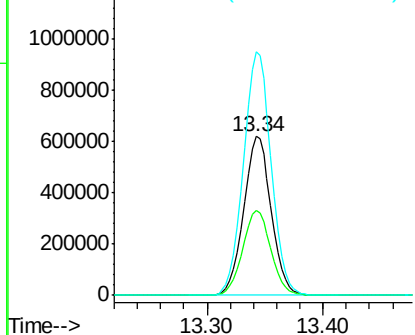
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054423.D
Acq: 19 Mar 2019 5:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 1017642
Ion Ratio Lower Upper
152 100
115 54.0 27.2 81.6
150 154.2 0.0 349.2



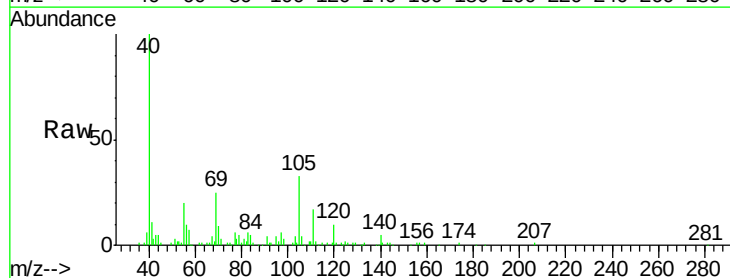
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



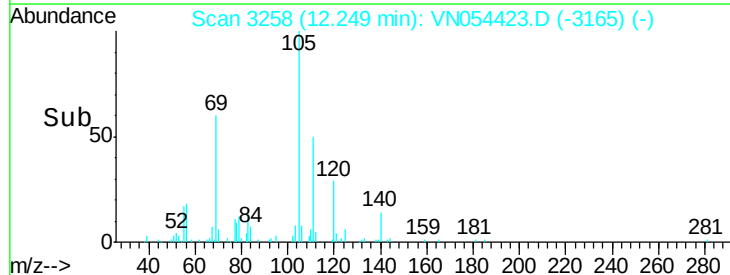
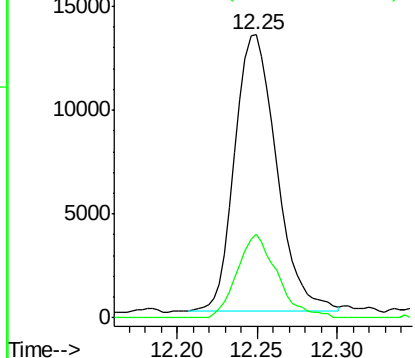
#73

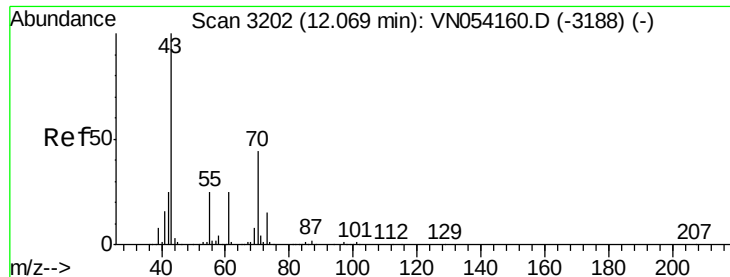
Isopropylbenzene
Concen: 0.293 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN054423.D
Acq: 19 Mar 2019 5:29

Tgt Ion:105 Resp: 23867
Ion Ratio Lower Upper
105 100
120 29.0 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 1.782 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN054423.D

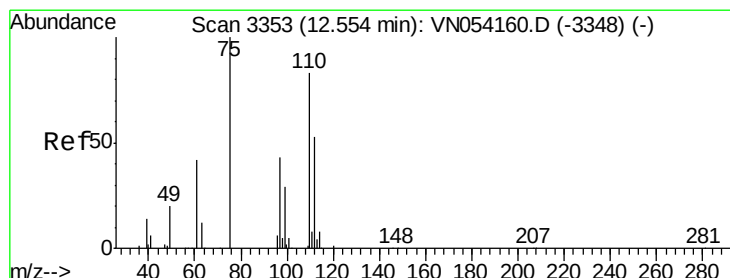
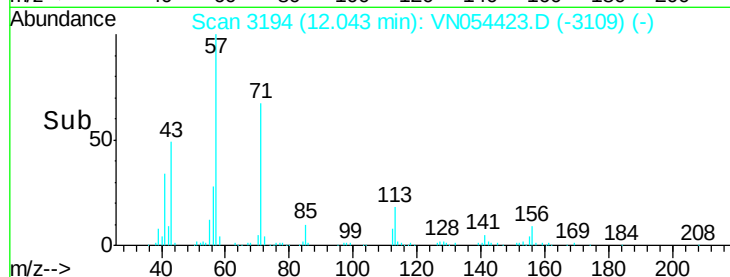
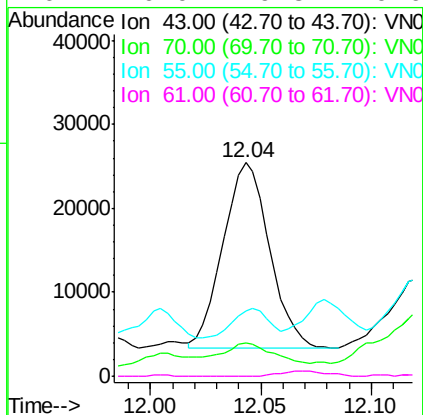
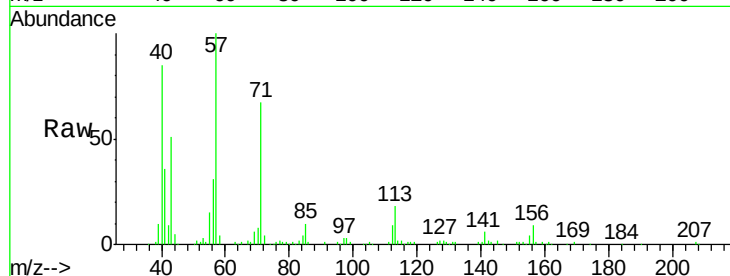
Acq: 19 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	43	Resp:	32199
Ion	Ratio	Lower	Upper
43	100		
70	10.0	35.4	53.0#
55	20.9	19.8	29.6
61	0.0	19.8	29.6#



#76

1,2,3-Trichloropropane

Concen: 30.921 ug/l

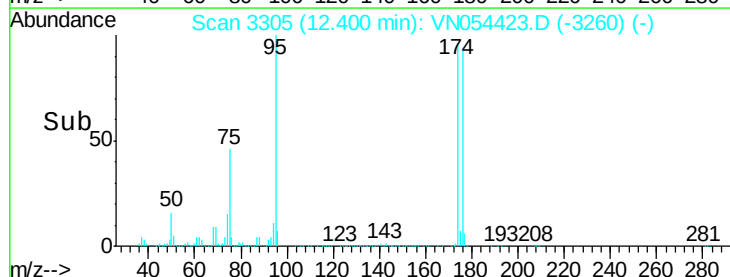
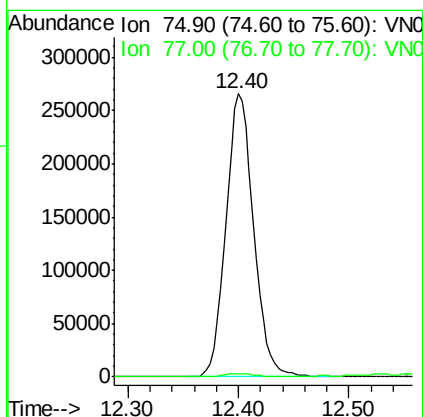
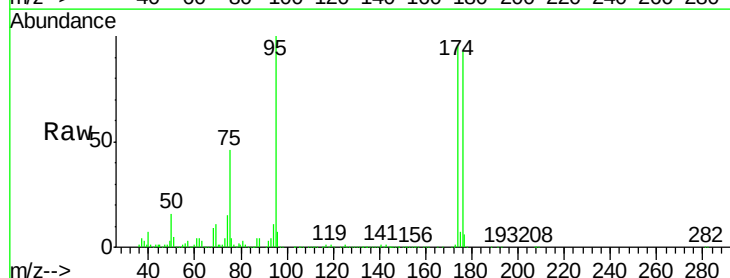
RT: 12.40 min Scan# 3305

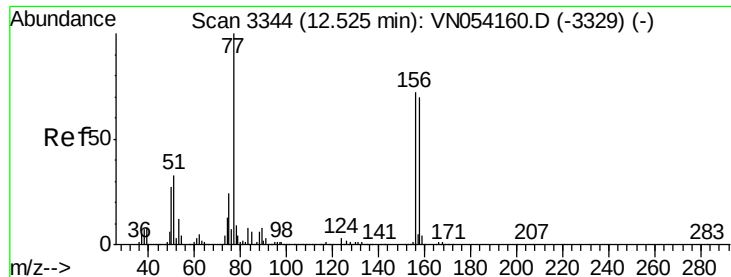
Delta R.T. -0.15 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

Tgt Ion:	75	Resp:	462730
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#





#77

Bromobenzene

Concen: 1.626 ug/l

RT: 12.54 min Scan# 3348

Delta R.T. 0.01 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

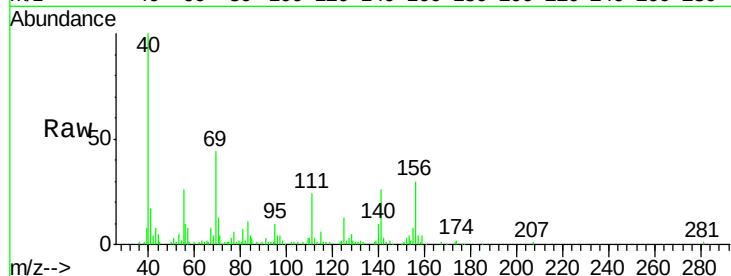
Tot Ion:156 Resp: 35029

Ion Ratio Lower Upper

156 100

77 9.1 81.5 244.4#

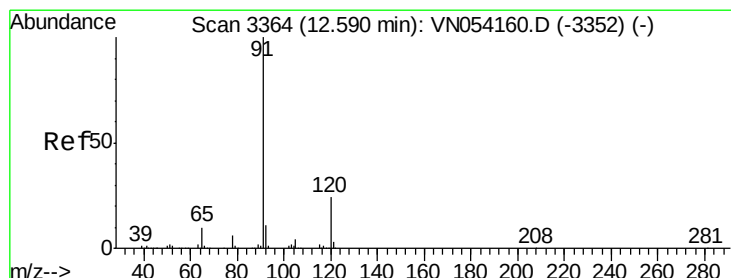
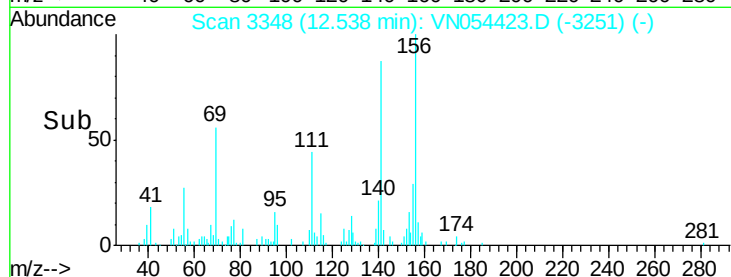
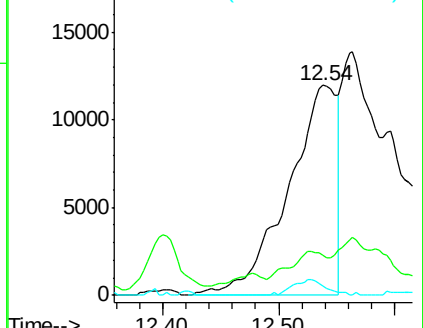
158 5.0 49.0 147.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.503 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054423.D

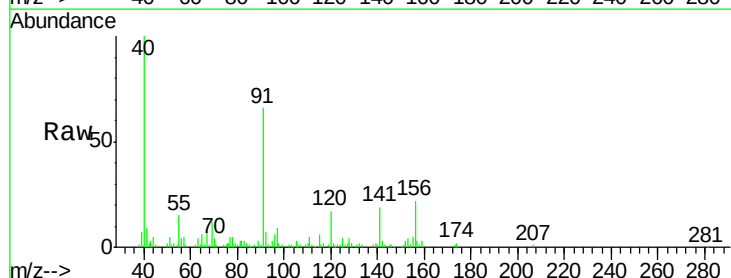
Acq: 19 Mar 2019 5:29

Tgt Ion: 91 Resp: 44404

Ion Ratio Lower Upper

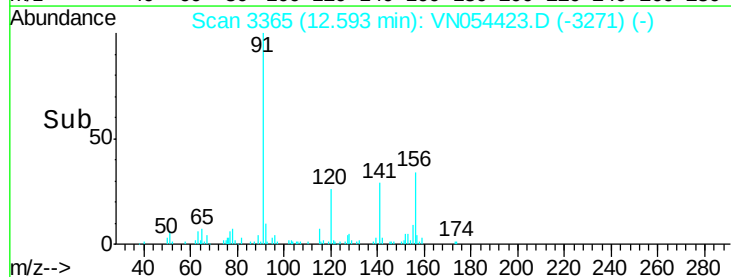
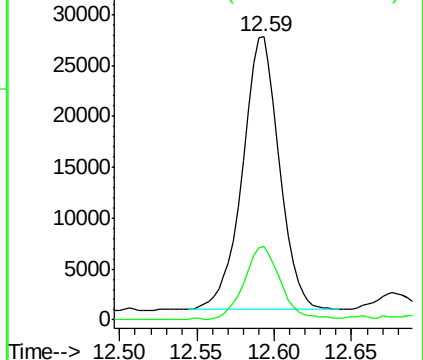
91 100

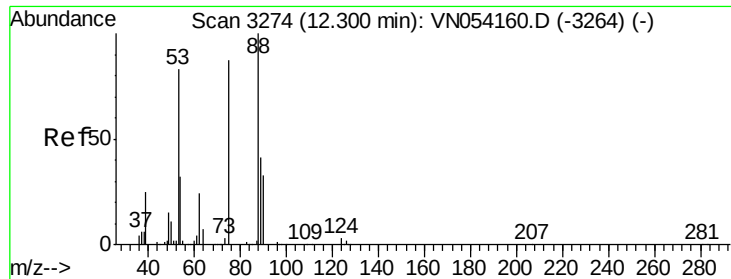
120 27.1 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 105.702 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

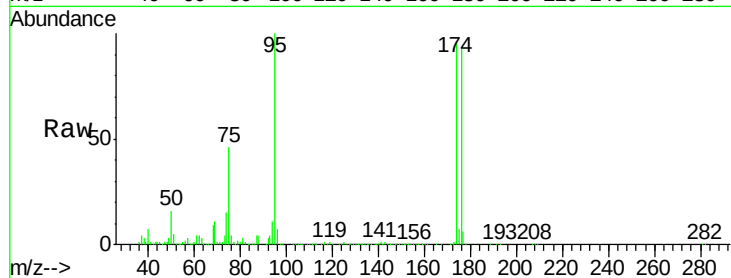
Tot Ion: 75 Resp: 462730

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

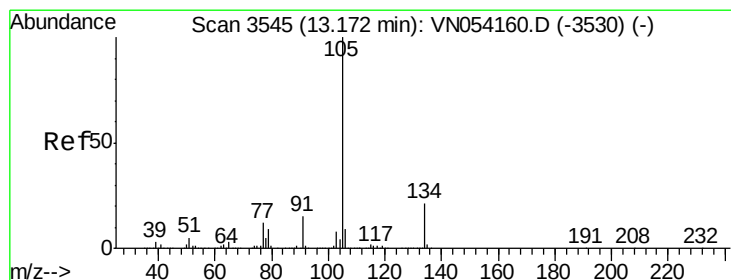
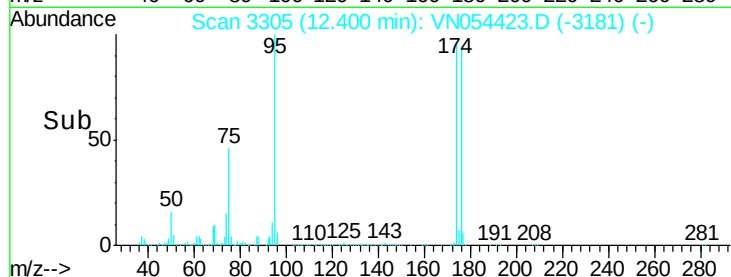
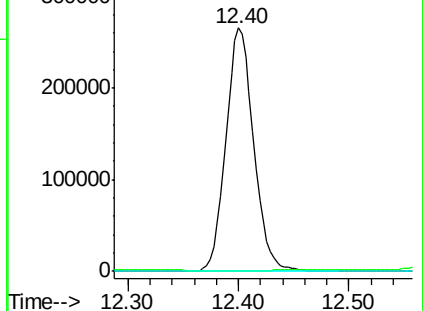
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#85

sec-Butylbenzene

Concen: 1.286 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054423.D

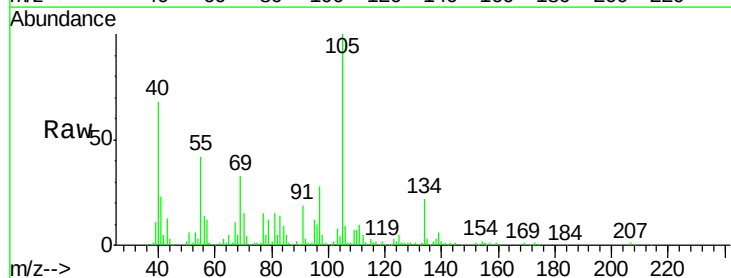
Acq: 19 Mar 2019 5:29

Tgt Ion: 105 Resp: 103953

Ion Ratio Lower Upper

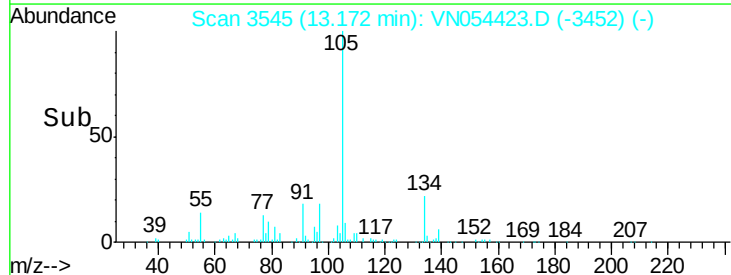
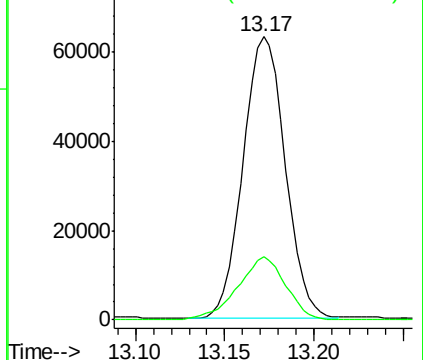
105 100

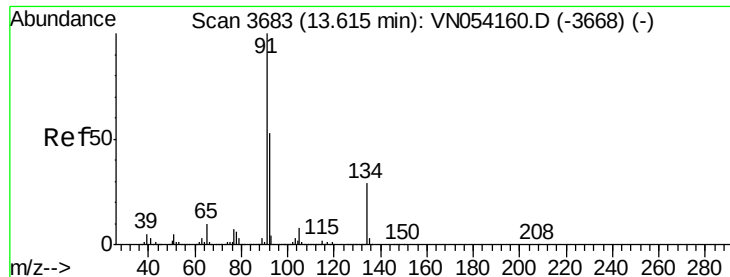
134 25.6 10.7 32.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#89

n-Butylbenzene

Concen: 1.418 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

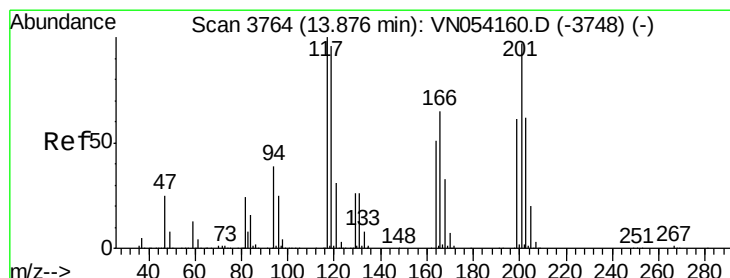
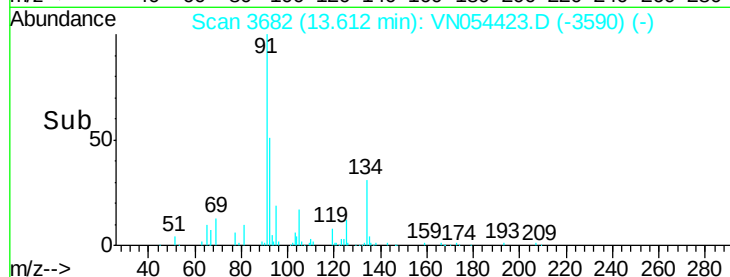
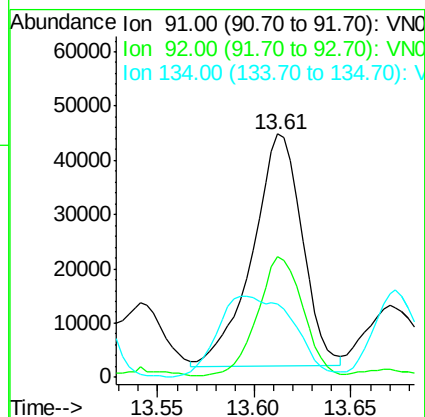
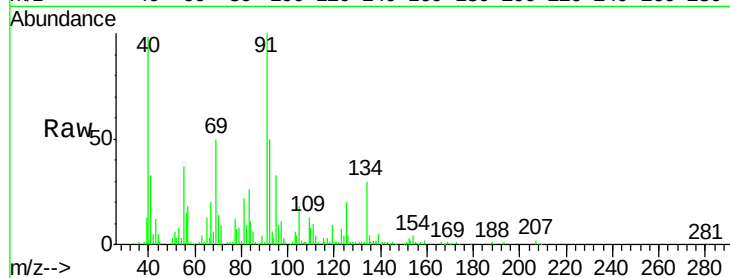
Tot Ion: 91 Resp: 76390

Ion Ratio Lower Upper

91 100

92 47.2 26.2 78.6

134 53.5 14.3 42.9#



#90

Hexachloroethane

Concen: 4.086 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN054423.D

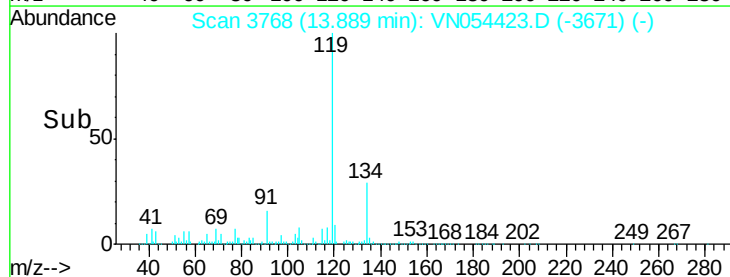
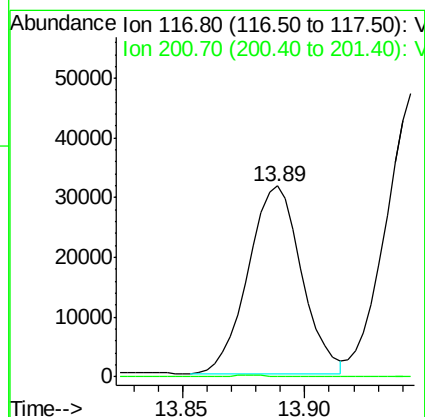
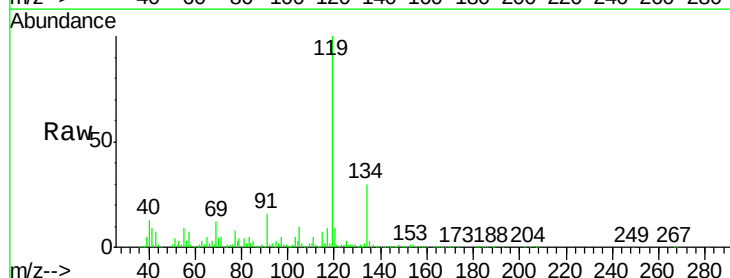
Acq: 19 Mar 2019 5:29

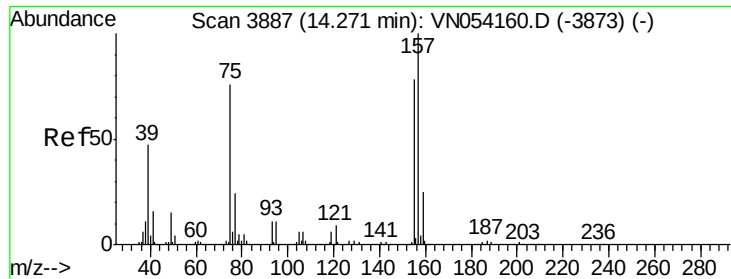
Tgt Ion: 117 Resp: 47978

Ion Ratio Lower Upper

117 100

201 0.5 48.1 144.4#

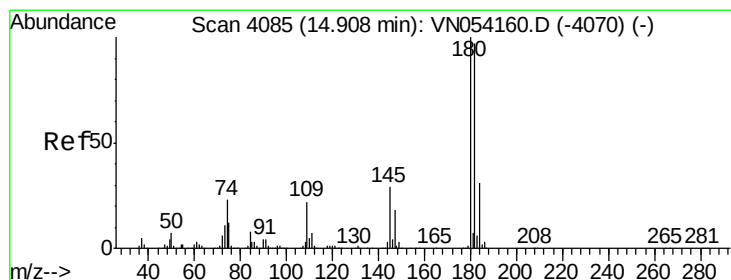
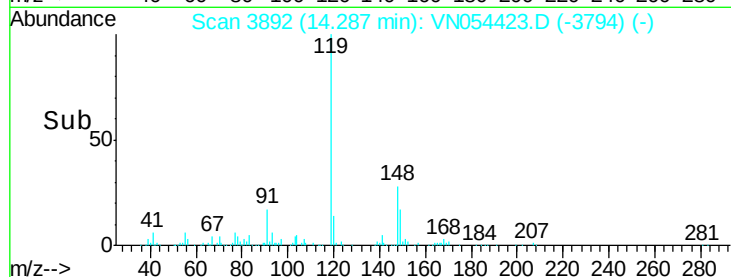
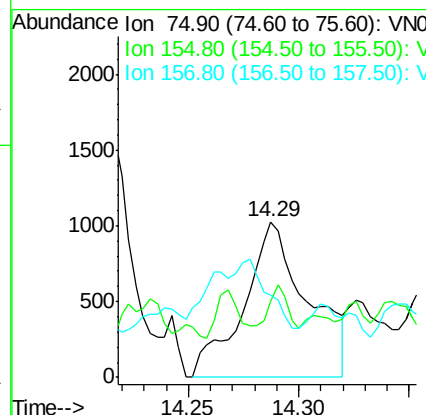
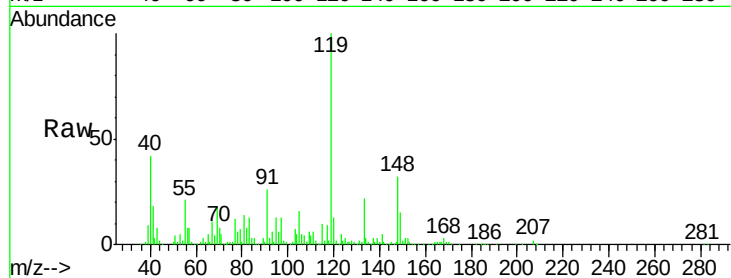




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.771 ug/l
 RT: 14.29 min Scan# 3892
 Delta R.T. 0.02 min
 Lab File: VN054423.D
 Acq: 19 Mar 2019 5:29

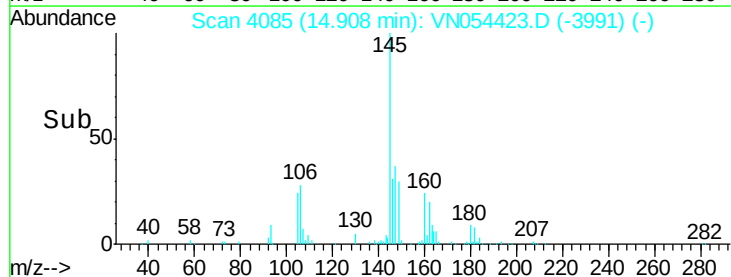
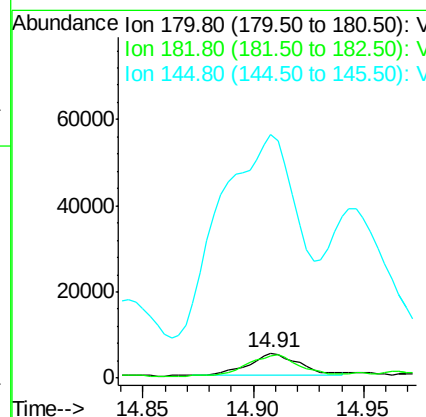
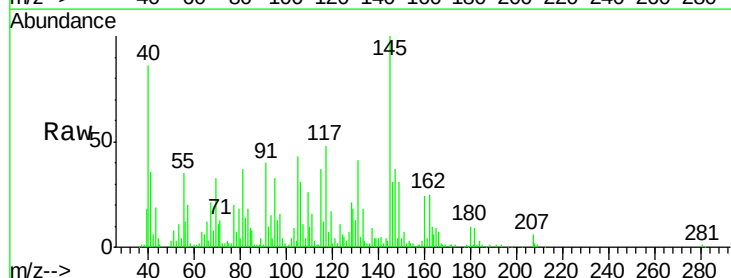
Instrument :
 MSVOA_N
 ClientSampled :

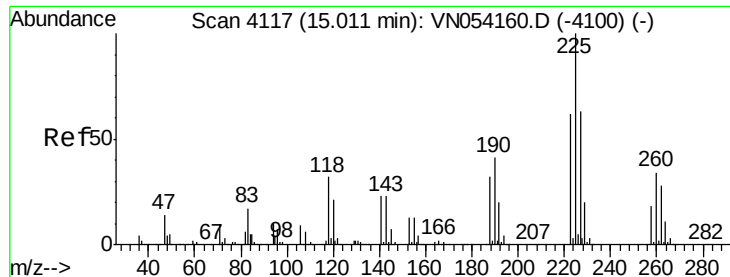
Tot Ion: 75 Resp: 2070
 Ion Ratio Lower Upper
 75 100
 155 0.0 50.1 150.3#
 157 0.0 63.1 189.3#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.885 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054423.D
 Acq: 19 Mar 2019 5:29

Tgt Ion:180 Resp: 8313
 Ion Ratio Lower Upper
 180 100
 182 102.9 48.0 144.2
 145 1632.5 14.2 42.8#





#94

Hexachlorobutadiene

Concen: 0.214 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN054423.D

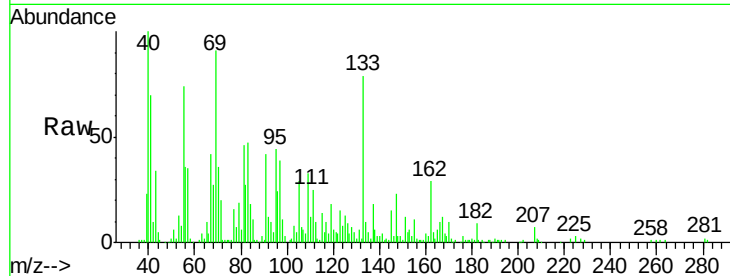
Acq: 19 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampled :

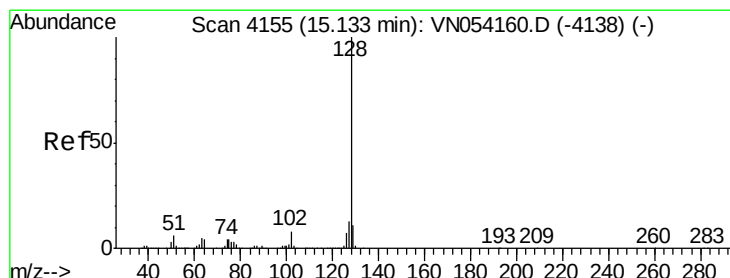
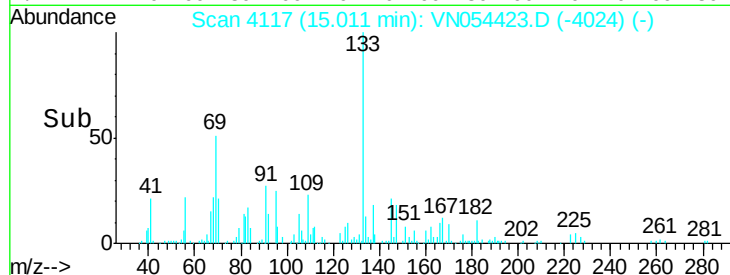
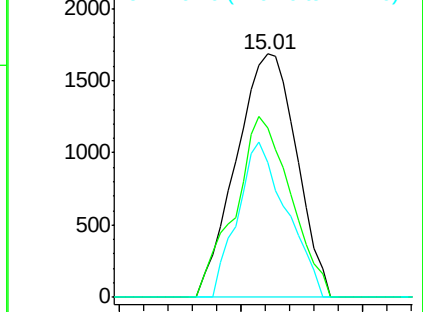
Tot Ion:	225	Resp:	2895
Ion	Ratio	Lower	Upper
225	100		
223	68.3	31.1	93.5
227	51.5	31.9	95.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.359 ug/l

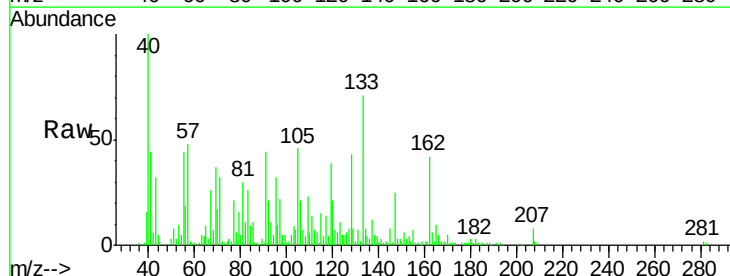
RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

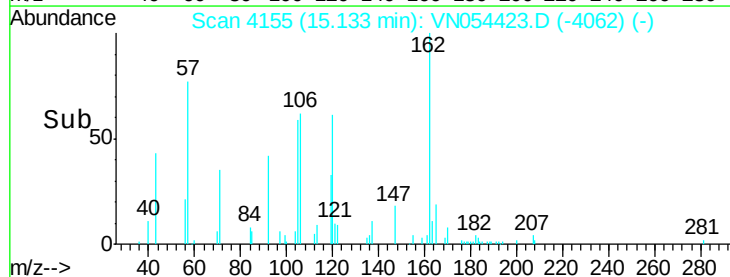
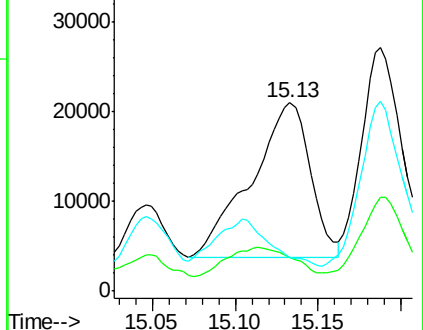
Tgt Ion:	128	Resp:	42664
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.1	15.1#
129	0.0	8.7	13.1#

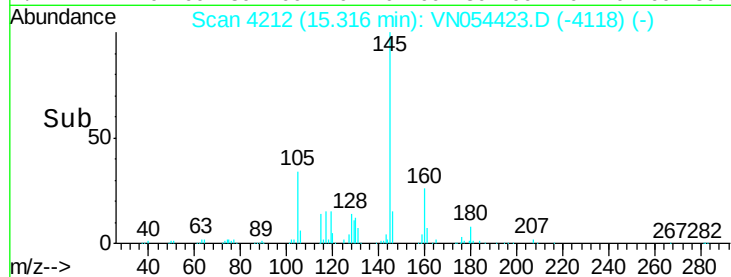
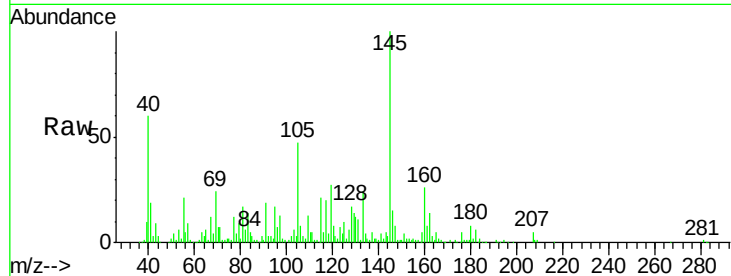
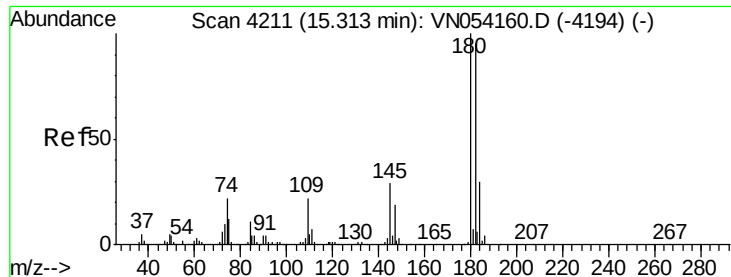


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.520 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN054423.D

Acq: 19 Mar 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:180 Resp: 9813

Ion Ratio Lower Upper

180 100

182 91.1 47.5 142.6

145 1422.7 14.8 44.3#

