

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032919\
 Data File : VN054781.D
 Acq On : 29 Mar 2019 20:11
 Operator : JC/SP
 Sample : K2043-03ME
 Misc : 6.02g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 30 21:46:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	477280	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	767397	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	672518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	266753	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	314578	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
35) Dibromofluoromethane	7.59	113	241162	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
50) Toluene-d8	10.09	98	925961	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
62) 4-Bromofluorobenzene	12.40	95	306875	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	

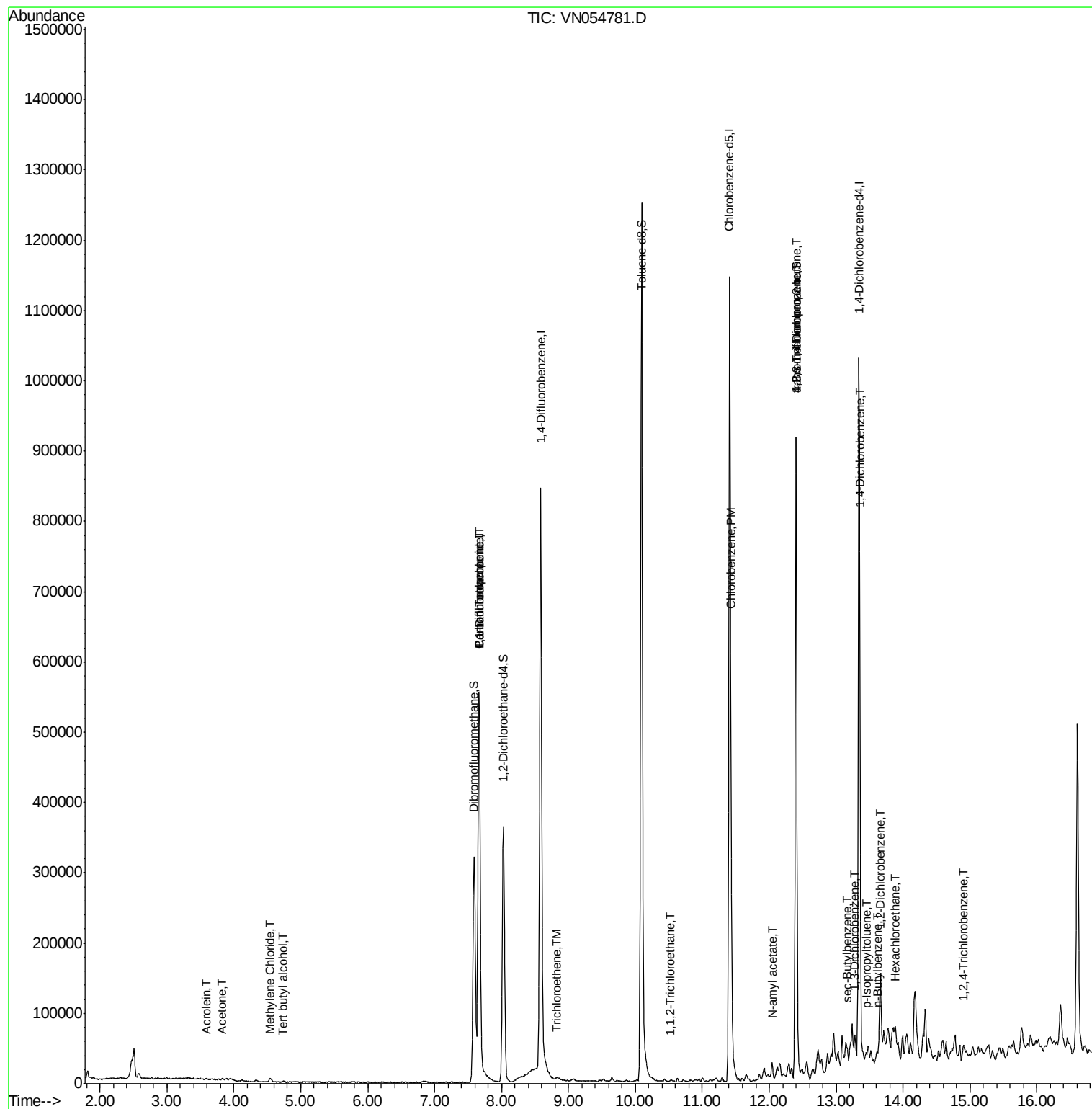
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.52	94	392	Below Cal	#	2
11) Tert butyl alcohol	4.73	59	203	0.606	ug/l #	91
13) Acrolein	3.59	56	111	0.370	ug/l #	48
16) Acetone	3.83	43	1665	1.085	ug/l #	76
20) Methylene Chloride	4.55	84	2794	0.516	ug/l #	89
31) Cyclohexane	7.66	56	10490	Below Cal	#	32
36) 1,1-Dichloropropene	7.66	75	36813	5.148	ug/l #	47
38) Carbon Tetrachloride	7.66	117	45168	6.503	ug/l #	16
44) Trichloroethene	8.84	130	1619	0.305	ug/l	87
55) 1,1,2-Trichloroethane	10.53	97	1076	0.238	ug/l #	15
65) Chlorobenzene	11.43	112	90062	6.840	ug/l	98
74) N-amyl acetate	12.05	43	6539	0.963	ug/l #	58
75) 1,1,2,2-Tetrachloroethane	12.50	83	209	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	160531	34.641	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	160531	134.745	ug/l #	11
83) tert-Butylbenzene	12.99	119	3203	Below Cal		81
85) sec-Butylbenzene	13.17	105	5398	0.278	ug/l #	48
86) p-Isopropyltoluene	13.45	119	3832	0.224	ug/l	89
87) 1,3-Dichlorobenzene	13.28	146	7772	0.882	ug/l #	79
88) 1,4-Dichlorobenzene	13.36	146	10085	1.167	ug/l #	53
89) n-Butylbenzene	13.61	91	3268	0.234	ug/l	92
90) Hexachloroethane	13.89	117	826	0.284	ug/l #	2
91) 1,2-Dichlorobenzene	13.65	146	4494	0.505	ug/l #	65
93) 1,2,4-Trichlorobenzene	14.91	180	1767	0.412	ug/l #	37
94) Hexachlorobutadiene	15.00	225	141	Below Cal	#	19

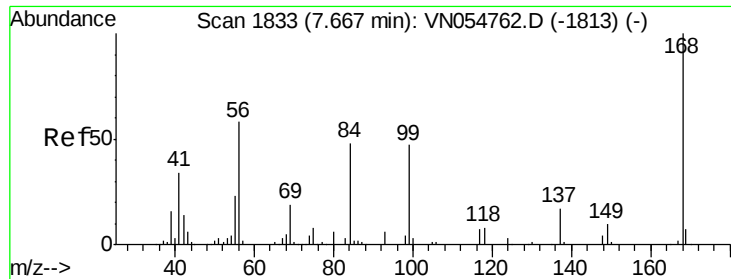
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
MSVOA_N
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Quant Time: Mar 30 21:46:48 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 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: VN054781.D

Acq: 29 Mar 2019 20:11

Instrument :

MSVOA_N

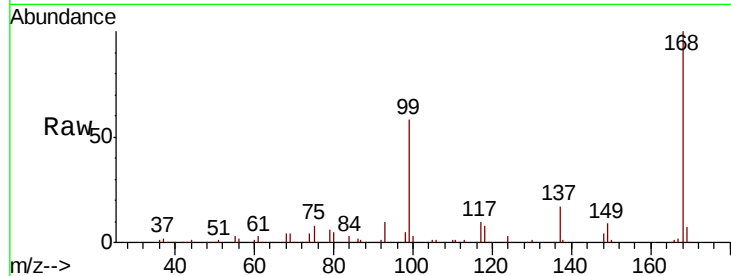
ClientSampled :

Tot Ion:168 Resp: 477280

Ion Ratio Lower Upper

168 100

99 57.7 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

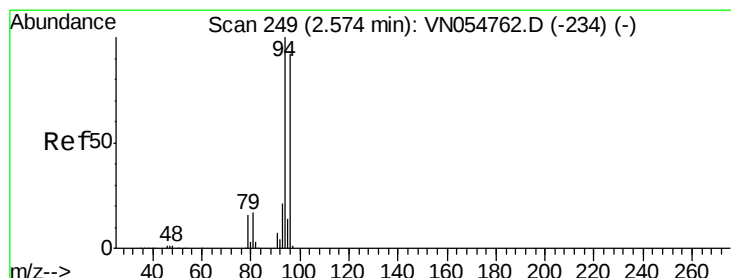
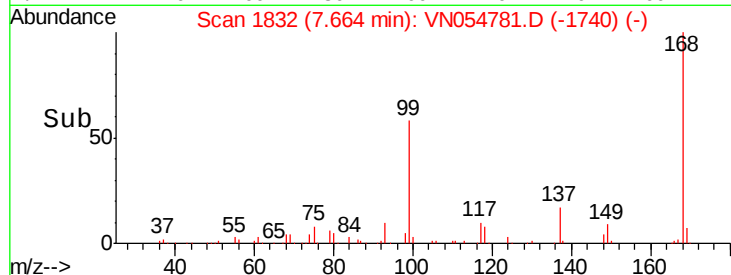
100000

50000

0

7.60 7.70 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.52 min Scan# 231

Delta R.T. -0.06 min

Lab File: VN054781.D

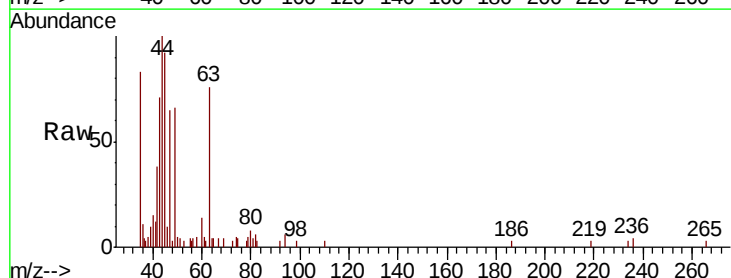
Acq: 29 Mar 2019 20:11

Tgt Ion: 94 Resp: 392

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.52

300

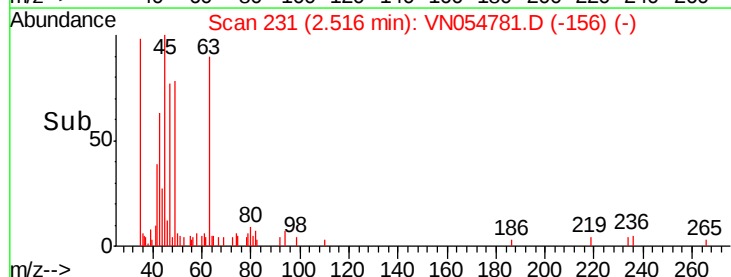
200

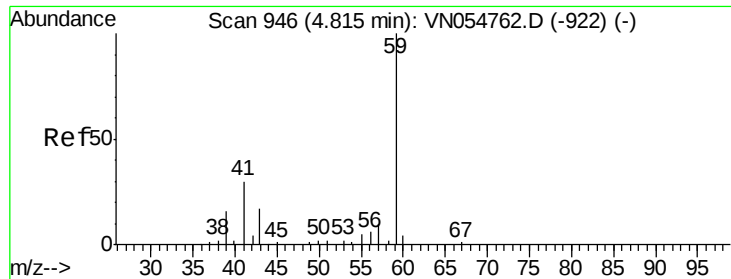
100

0

2.50 2.52 2.54

Time-->

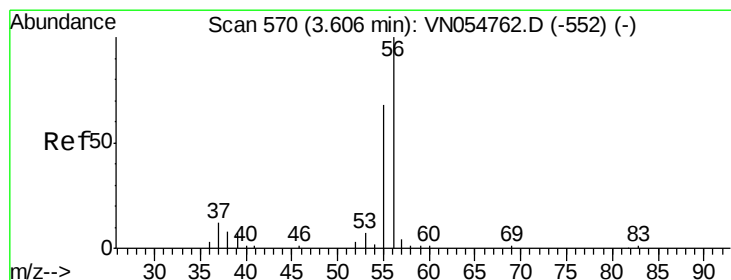
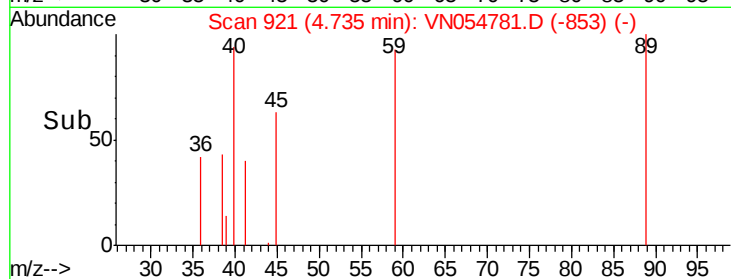
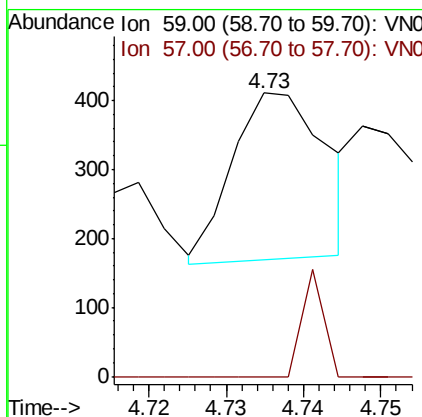
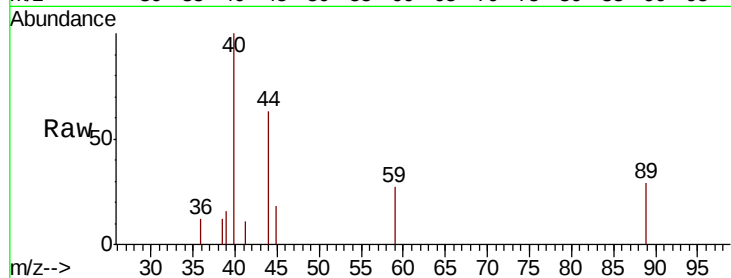




#11
Tert butyl alcohol
Concen: 0.606 ug/l
RT: 4.73 min Scan# 921
Delta R.T. -0.08 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

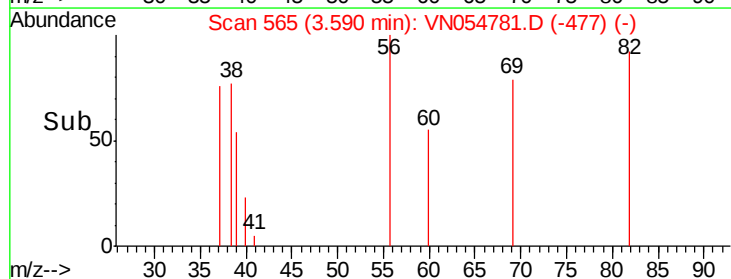
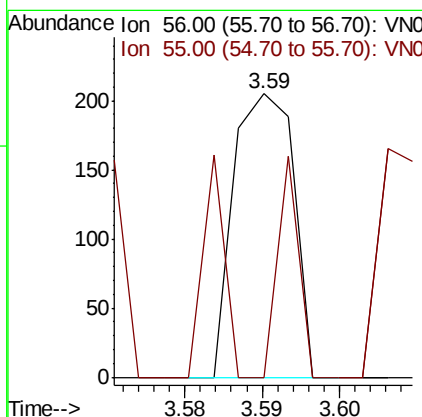
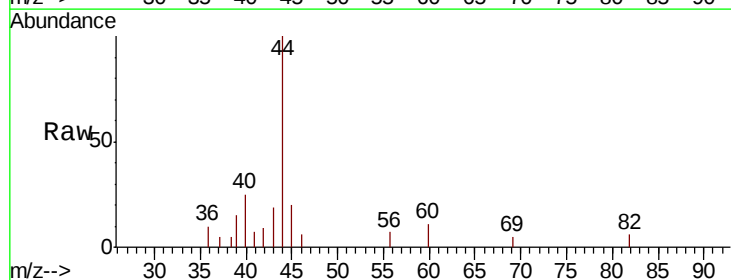
Instrument :
MSVOA_N
ClientSampled :

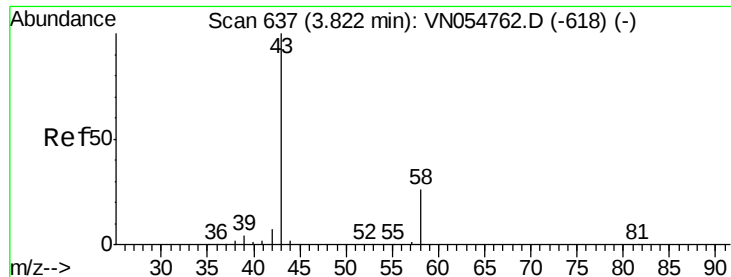
Tot Ion: 59 Resp: 203
Ion Ratio Lower Upper
59 100
57 14.8 9.0 13.6#



#13
Acrolein
Concen: 0.370 ug/l
RT: 3.59 min Scan# 565
Delta R.T. -0.02 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Tgt Ion: 56 Resp: 111
Ion Ratio Lower Upper
56 100
55 27.9 56.7 85.1#

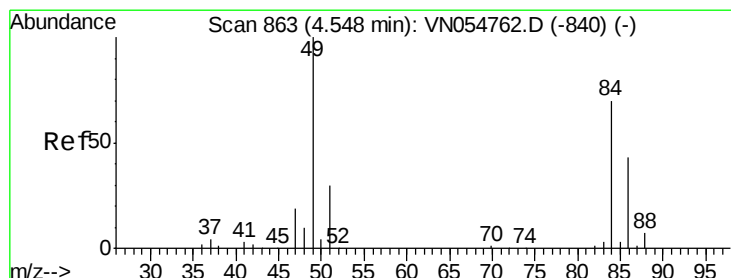
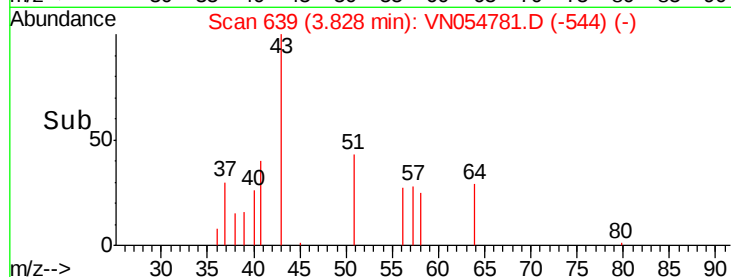
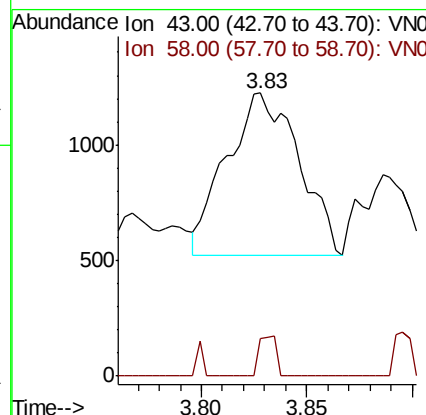
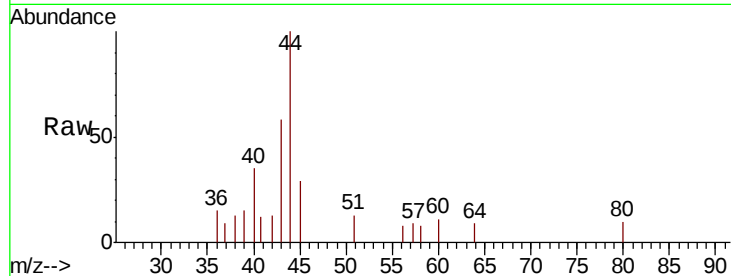




#16
Acetone
Concen: 1.085 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

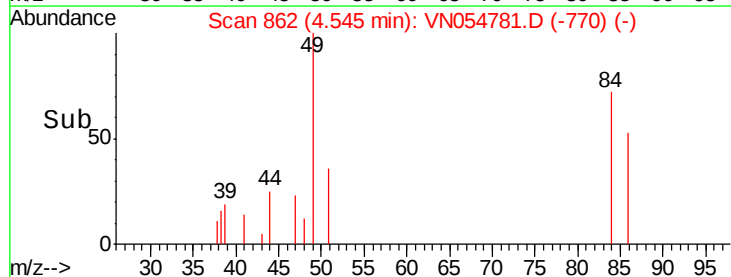
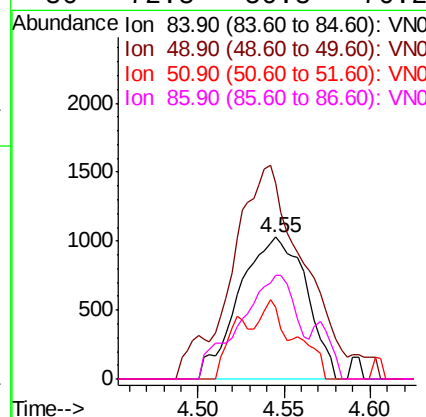
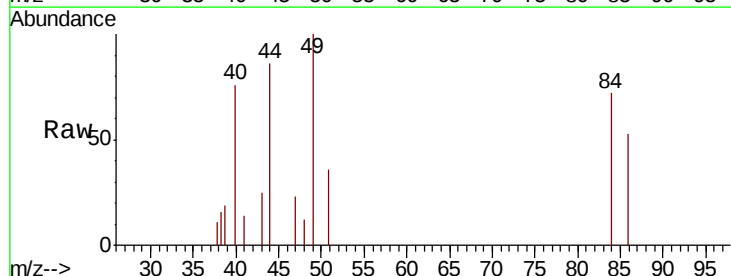
Instrument :
MSVOA_N
ClientSampled :

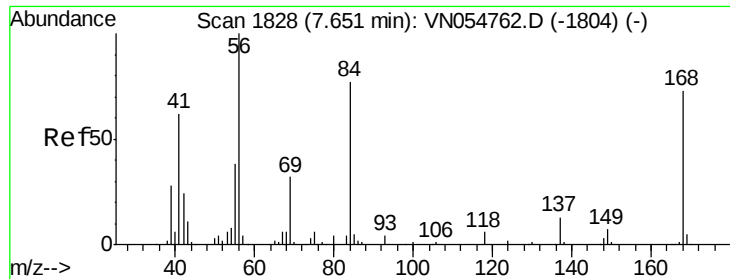
Tot Ion: 43 Resp: 1665
Ion Ratio Lower Upper
43 100
58 22.9 29.9 44.9#



#20
Methylene Chloride
Concen: 0.516 ug/l
RT: 4.55 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Tgt Ion: 84 Resp: 2794
Ion Ratio Lower Upper
84 100
49 118.1 89.7 134.5
51 50.2 28.2 42.4#
86 72.8 50.8 76.2

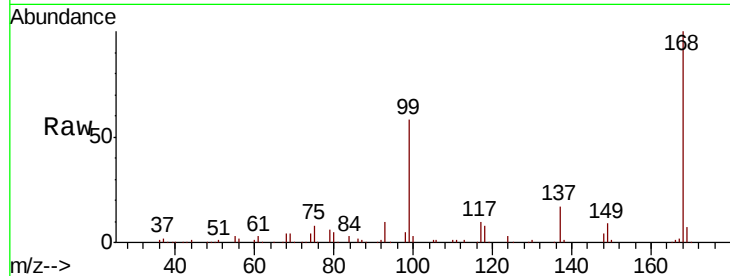




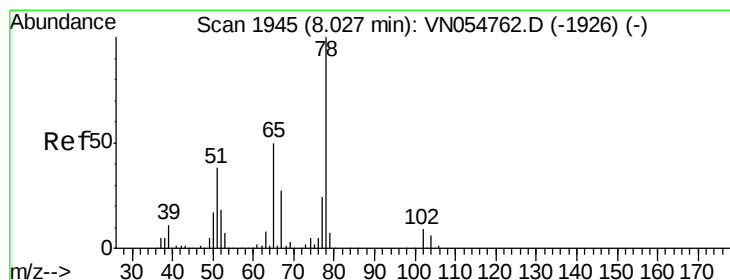
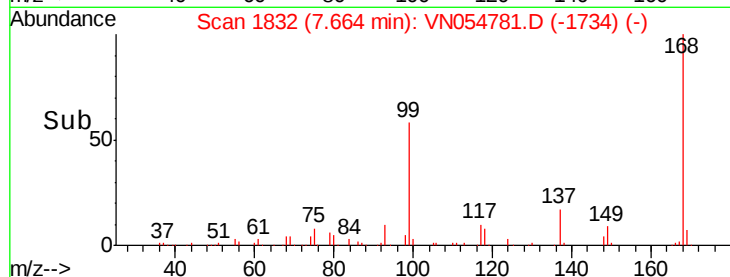
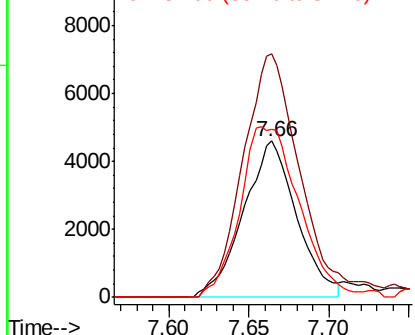
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10490
Ion Ratio Lower Upper
56 100
69 156.1 27.8 41.6#
84 107.9 74.6 111.8

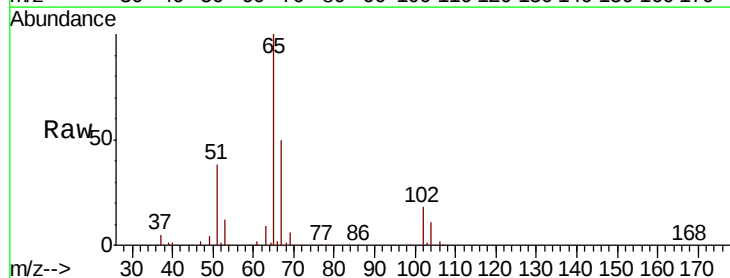


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

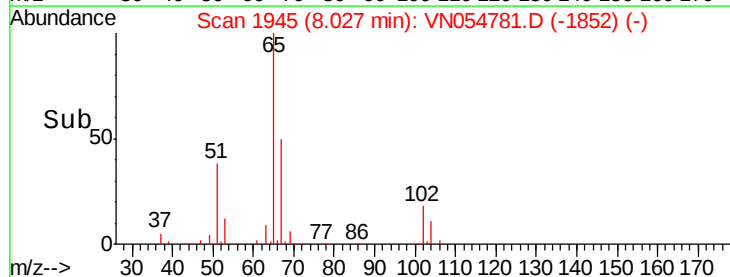
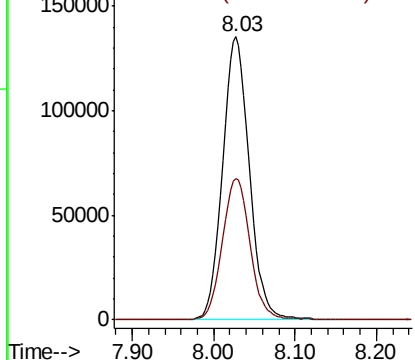


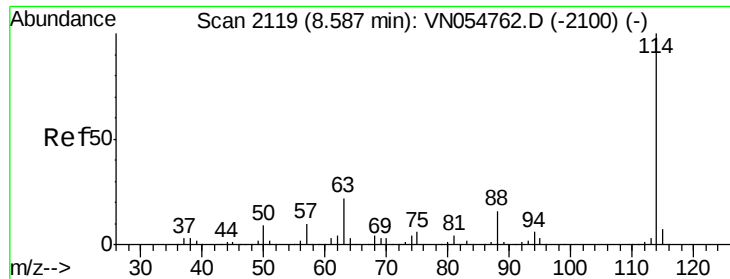
#33
1,2-Dichloroethane-d4
Concen: 48.894 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Tgt Ion: 65 Resp: 314578
Ion Ratio Lower Upper
65 100
67 51.8 0.0 104.6



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

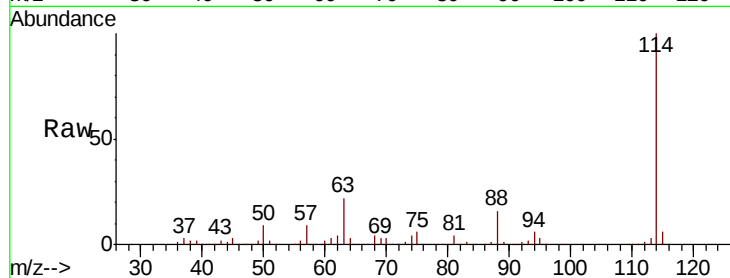




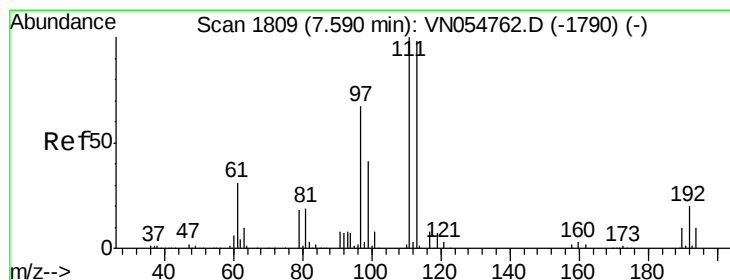
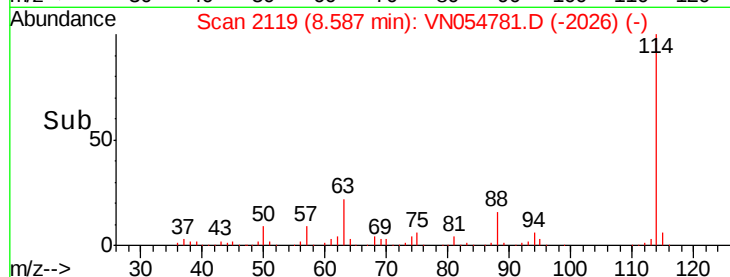
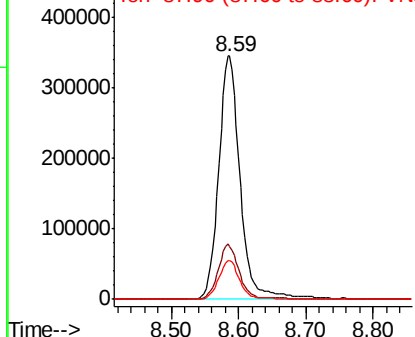
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054781.D
 Acq: 29 Mar 2019 20:11

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.9	0.0	35.2
88	16.2	0.0	30.2

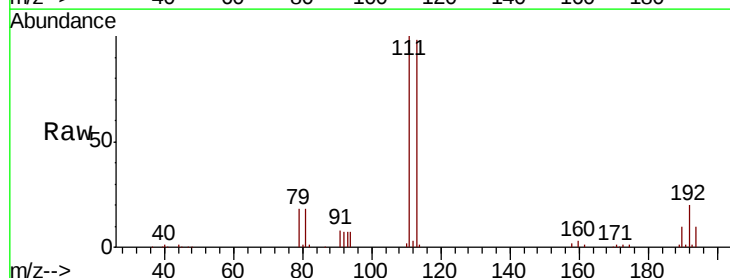


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

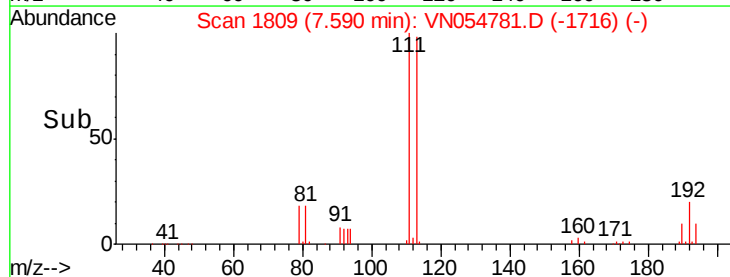
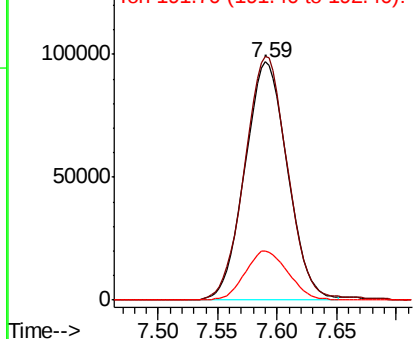


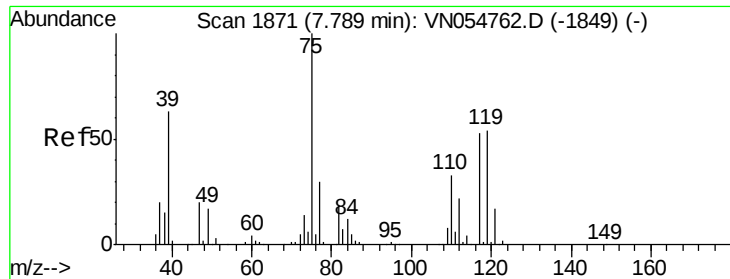
#35
 Dibromofluoromethane
 Concen: 47.137 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054781.D
 Acq: 29 Mar 2019 20:11

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.2	123.4
192	20.7	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

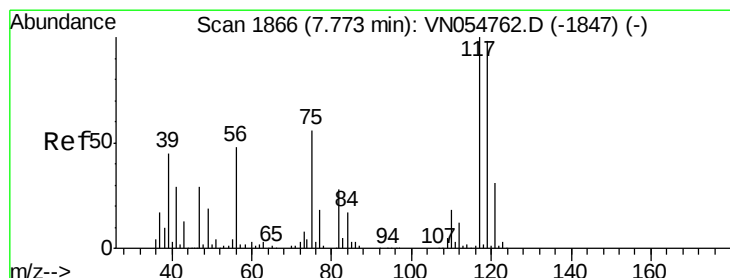
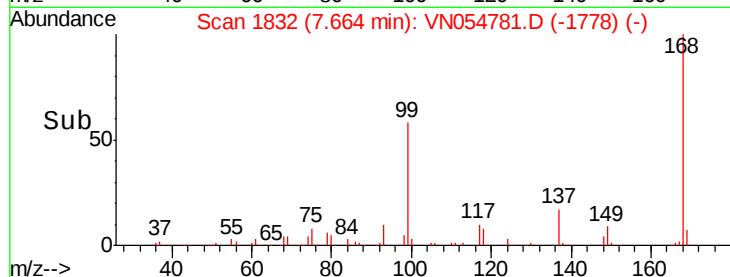
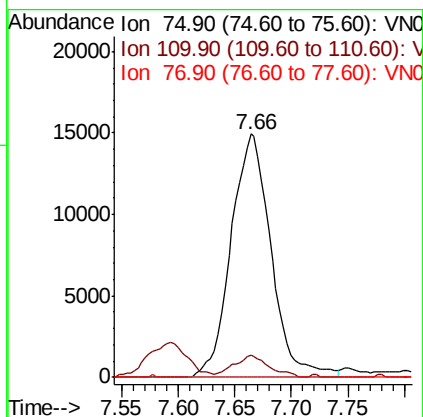
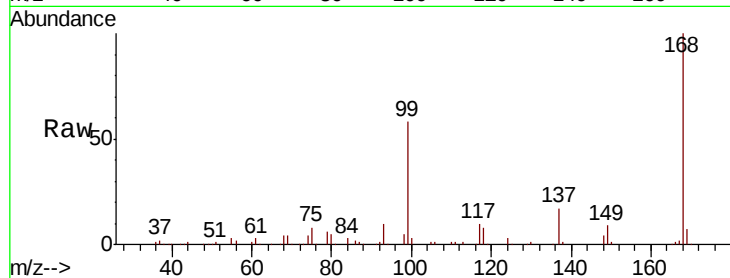




#36
 1,1-Dichloropropene
 Concen: 5.148 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054781.D
 Acq: 29 Mar 2019 20:11

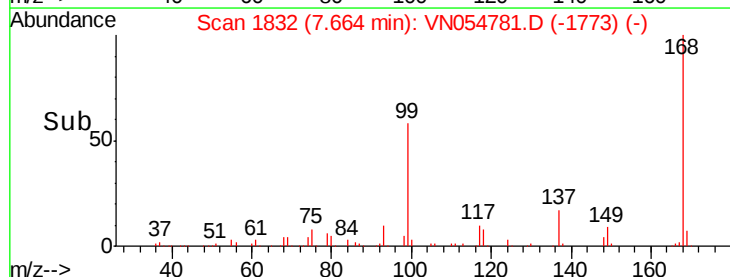
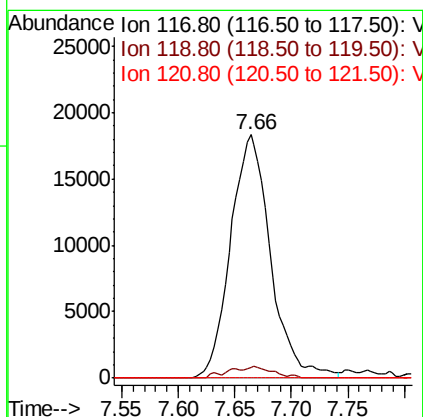
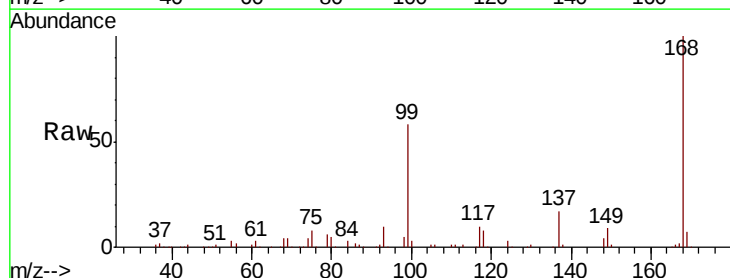
Instrument :
 MSVOA_N
 ClientSampleId :

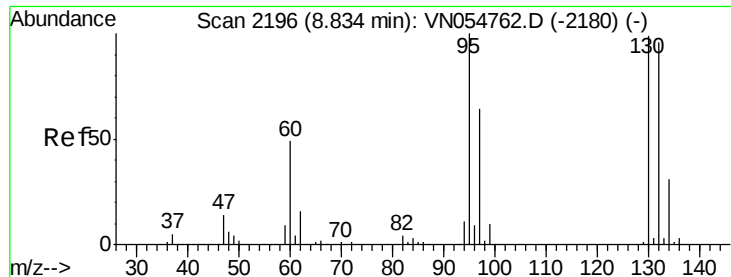
Tot Ion: 75 Resp: 36813
 Ion Ratio Lower Upper
 75 100
 110 8.1 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.503 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054781.D
 Acq: 29 Mar 2019 20:11

Tgt Ion: 117 Resp: 45168
 Ion Ratio Lower Upper
 117 100
 119 4.4 76.3 114.5#
 121 0.0 24.6 36.8#





#44

Trichloroethene

Concen: 0.305 ug/l

RT: 8.84 min Scan# 2198

Delta R.T. 0.01 min

Lab File: VN054781.D

Acq: 29 Mar 2019 20:11

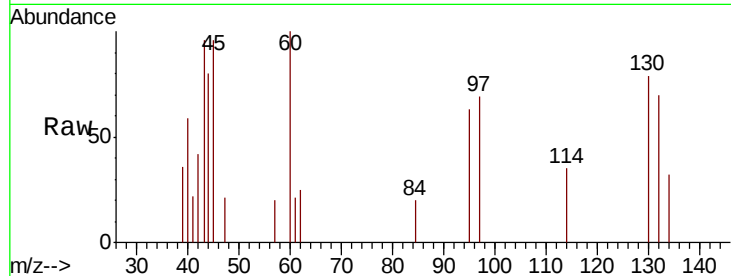
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:130 Resp: 1619

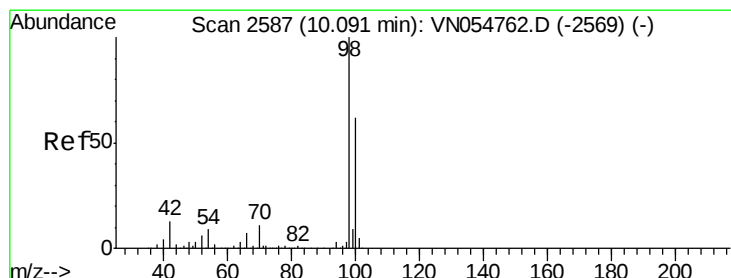
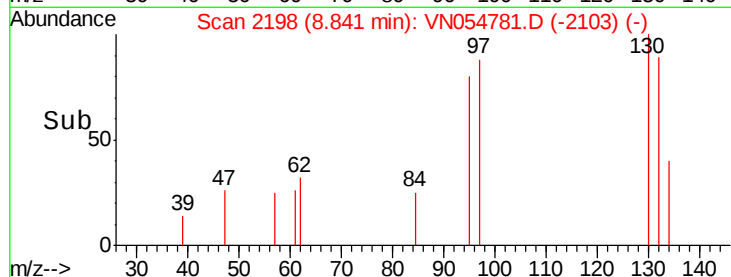
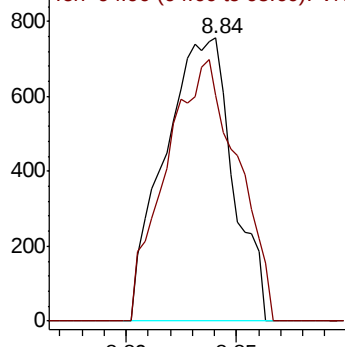
Ion Ratio Lower Upper

130 100

95 79.9 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 48.681 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054781.D

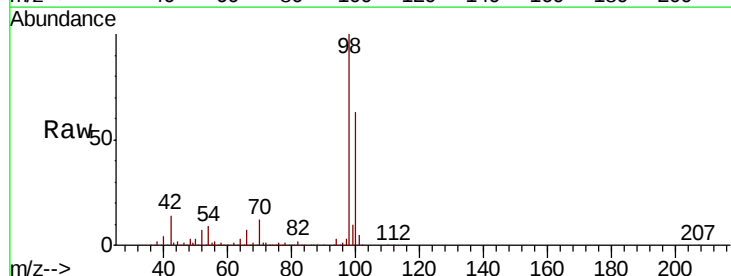
Acq: 29 Mar 2019 20:11

Tgt Ion: 98 Resp: 925961

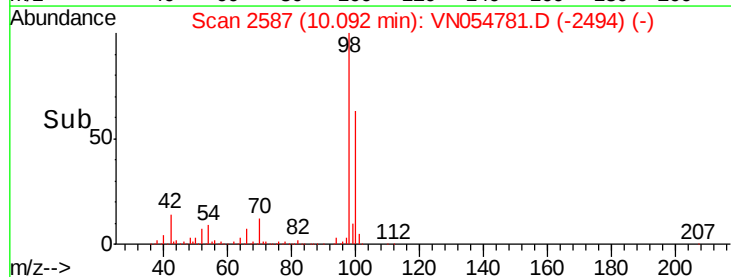
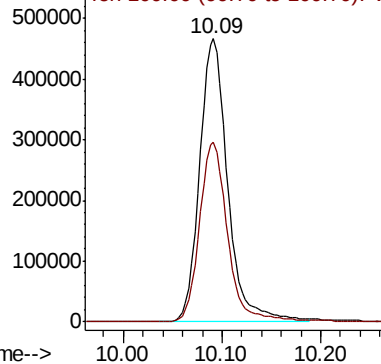
Ion Ratio Lower Upper

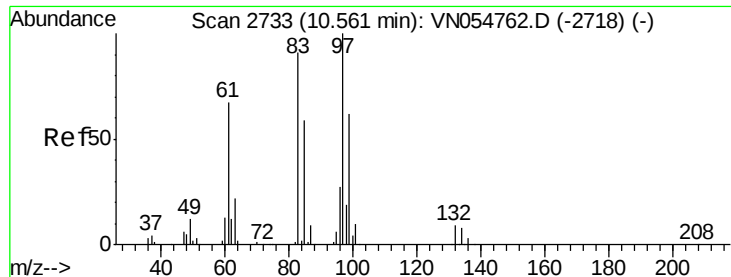
98 100

100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

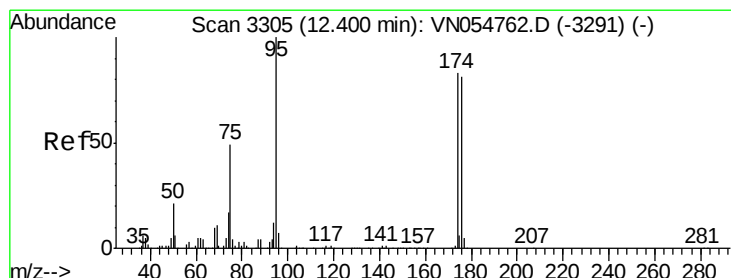
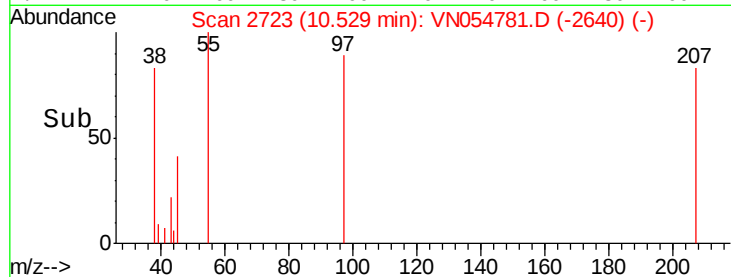
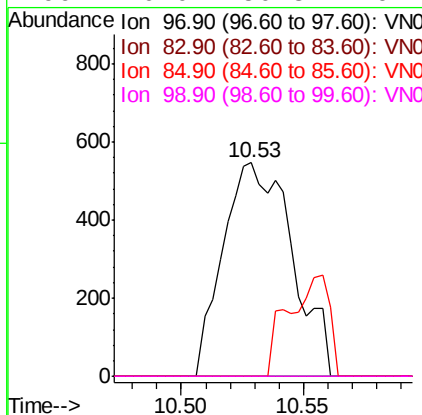
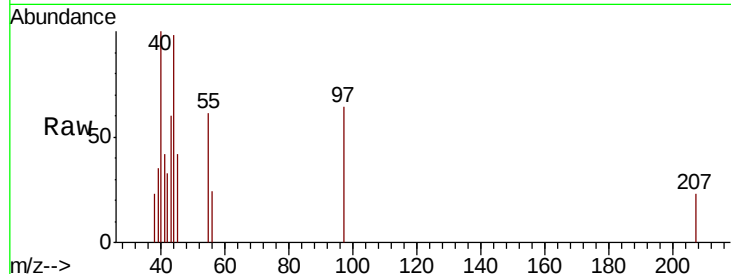




#55
 1,1,2-Trichloroethane
 Concen: 0.238 ug/l
 RT: 10.53 min Scan# 2723
 Delta R.T. -0.03 min
 Lab File: VN054781.D
 Acq: 29 Mar 2019 20:11

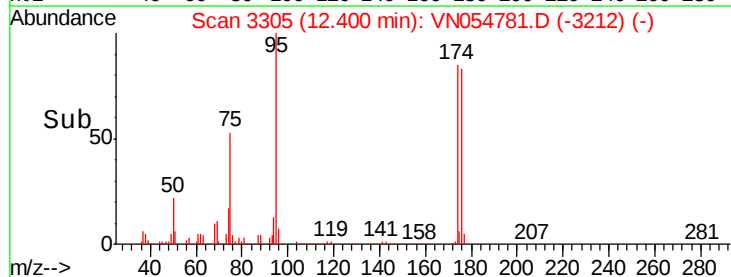
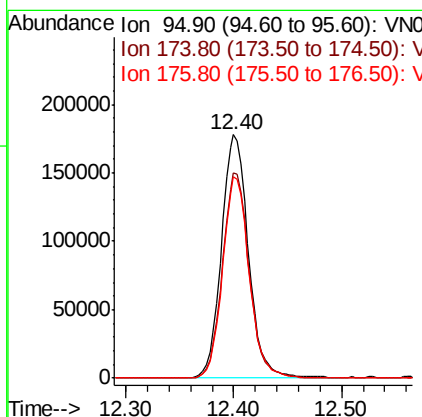
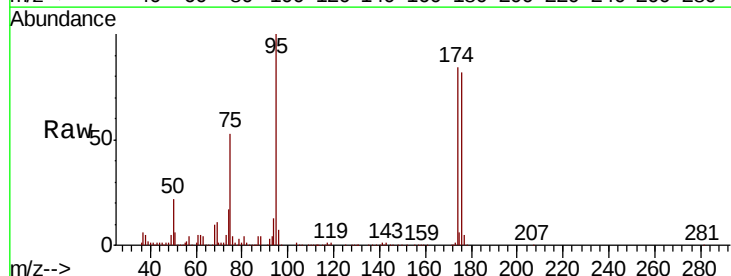
Instrument :
 MSVOA_N
 ClientSampleId :

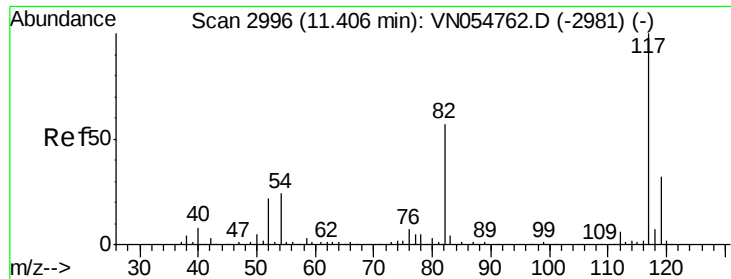
Tot Ion	97	Resp	1076
Ion	Ratio	Lower	Upper
97	100		
83	0.0	66.6	100.0#
85	0.0	44.4	66.6#
99	0.0	50.8	76.2#



#62
 4-Bromofluorobenzene
 Concen: 48.511 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054781.D
 Acq: 29 Mar 2019 20:11

Tgt Ion	95	Resp	306875
Ion	Ratio	Lower	Upper
95	100		
174	84.3	0.0	191.0
176	82.2	0.0	187.4

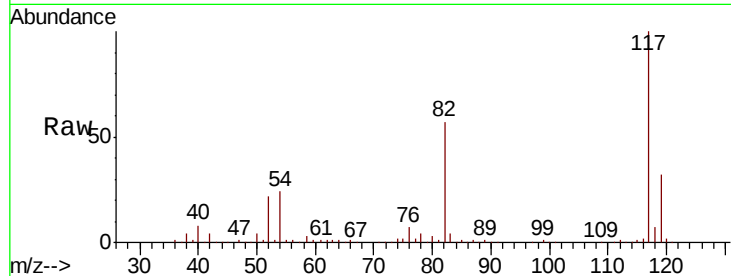




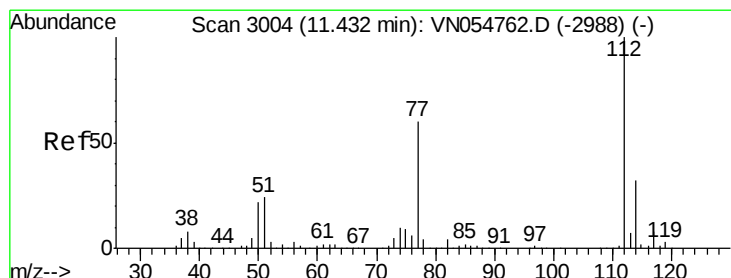
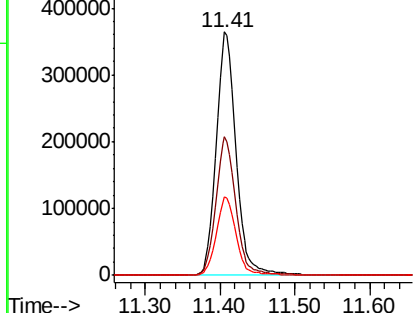
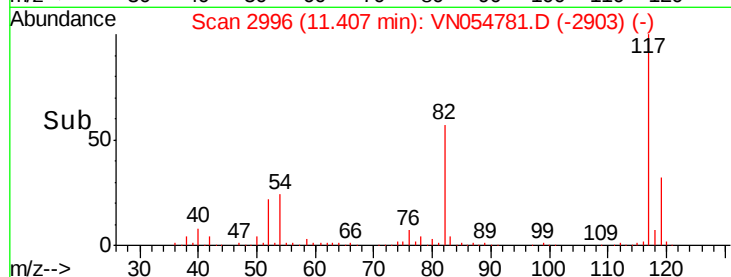
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 672518
Ion Ratio Lower Upper
117 100
82 56.8 40.0 60.0
119 32.1 25.8 38.6

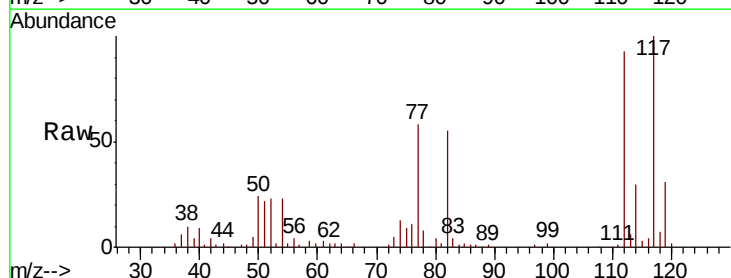


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

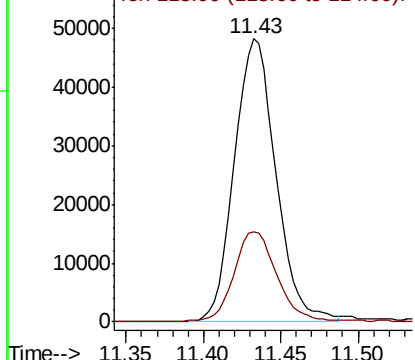
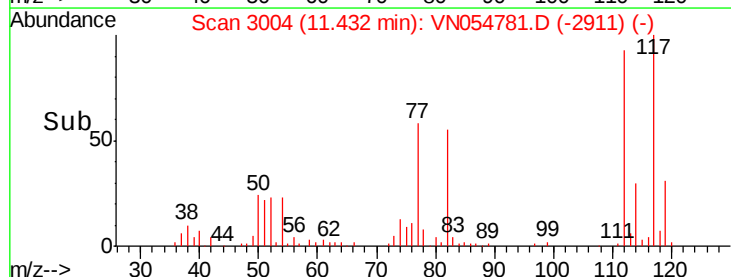


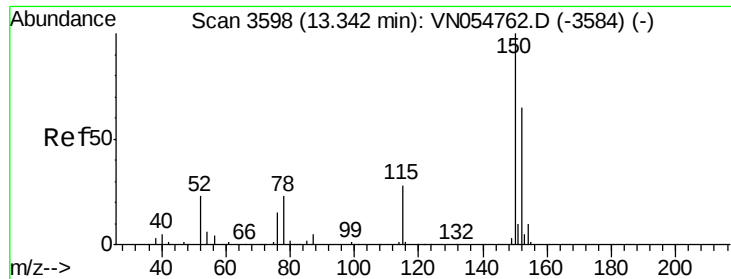
#65
Chlorobenzene
Concen: 6.840 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Tgt Ion:112 Resp: 90062
Ion Ratio Lower Upper
112 100
114 31.3 25.9 38.9



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



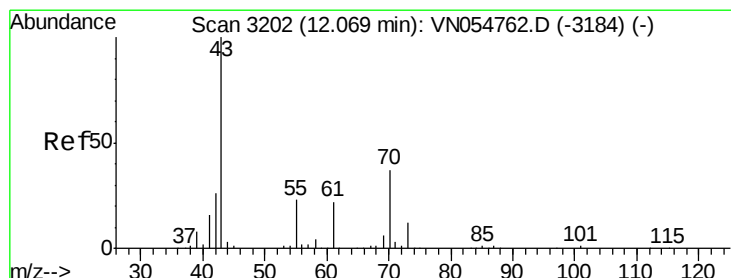
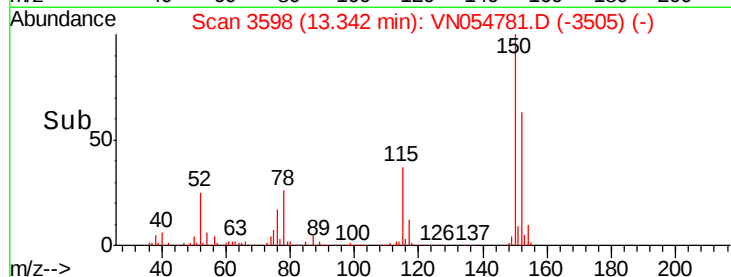
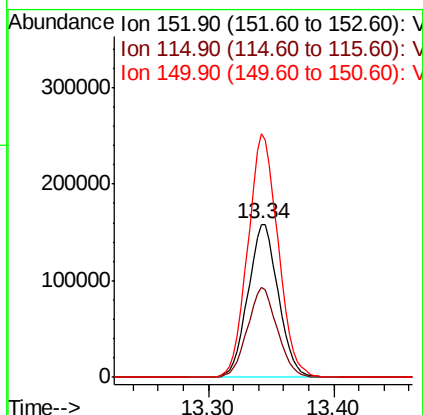
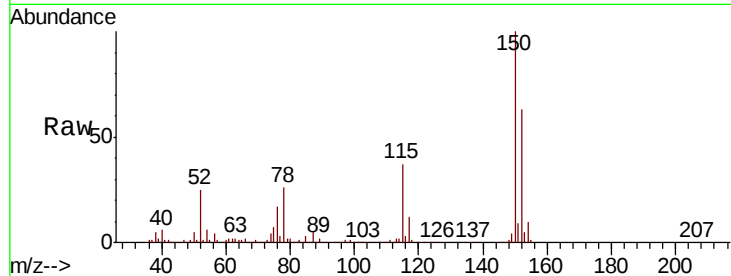


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Instrument :
MSVOA_N
ClientSampleId :

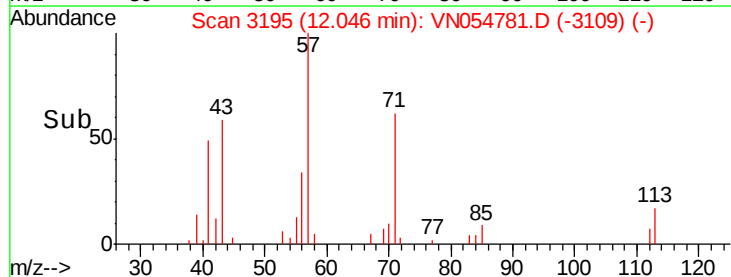
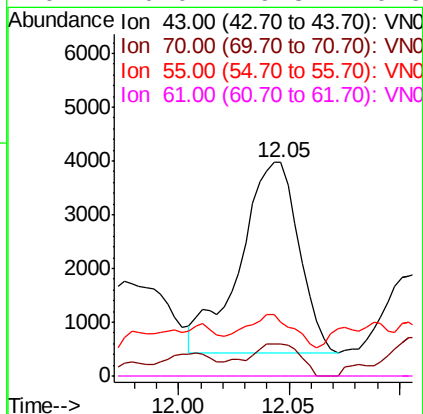
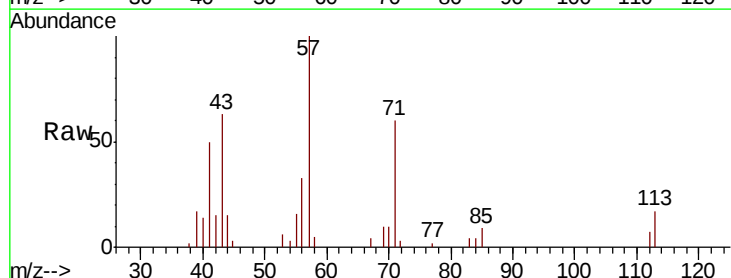
Tot Ion:152 Resp: 266753
Ion Ratio Lower Upper
152 100
115 57.7 27.2 81.6
150 158.4 0.0 349.2

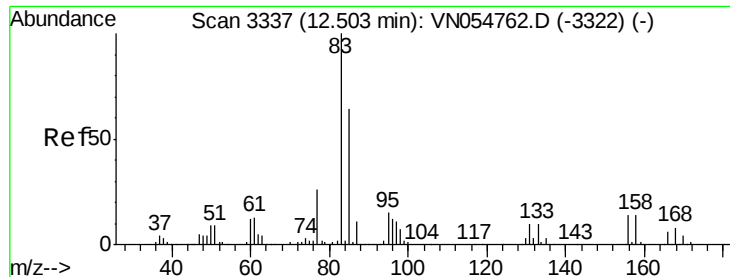


#74

N-ethyl acetate
Concen: 0.963 ug/l
RT: 12.05 min Scan# 3195
Delta R.T. -0.02 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Tgt Ion: 43 Resp: 6539
Ion Ratio Lower Upper
43 100
70 12.6 35.4 53.0#
55 13.5 19.8 29.6#
61 0.0 19.8 29.6#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054781.D

Acq: 29 Mar 2019 20:11

Instrument :

MSVOA_N

ClientSampleId :

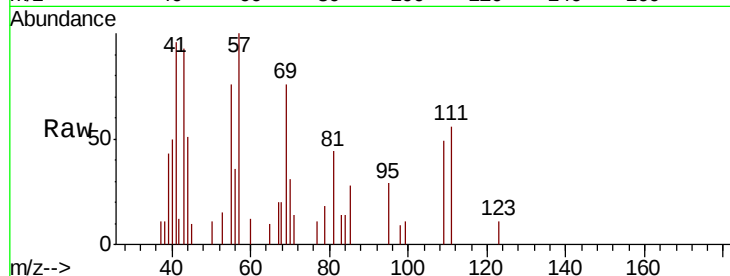
Tot Ion: 83 Resp: 209

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

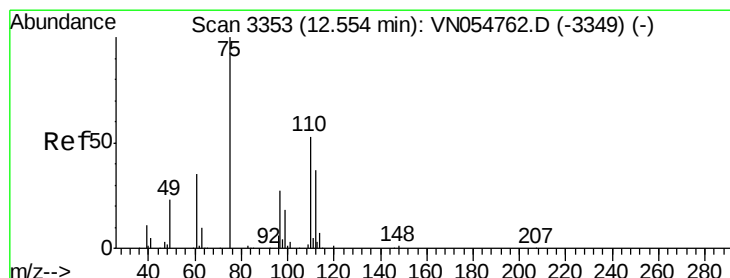
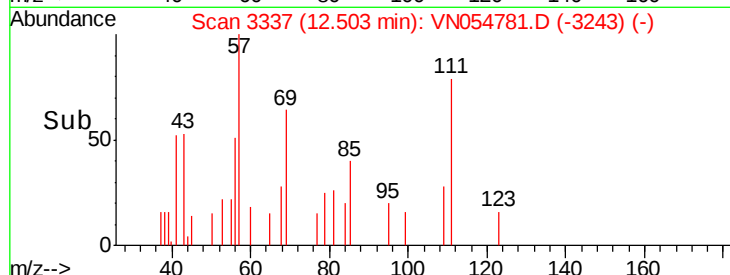
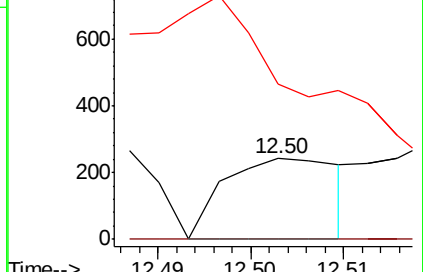
85 698.1 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 34.641 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054781.D

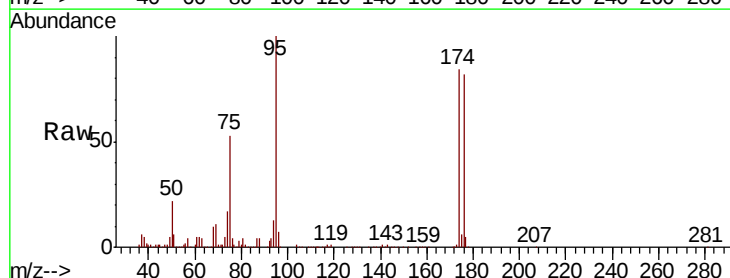
Acq: 29 Mar 2019 20:11

Tgt Ion: 75 Resp: 160531

Ion Ratio Lower Upper

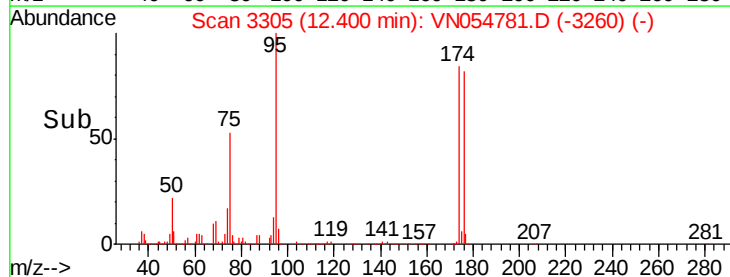
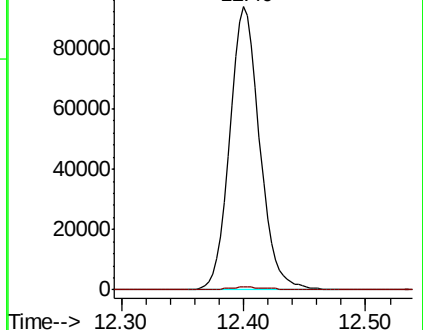
75 100

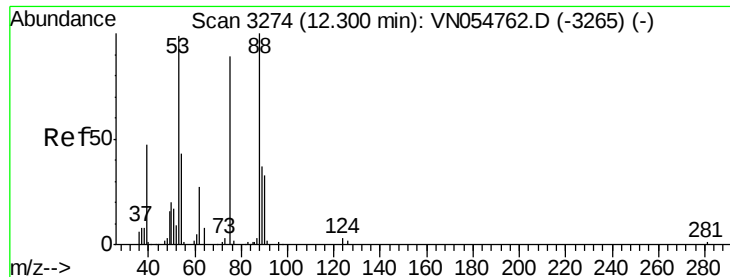
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

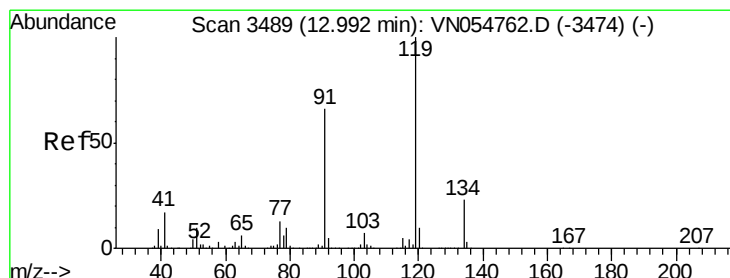
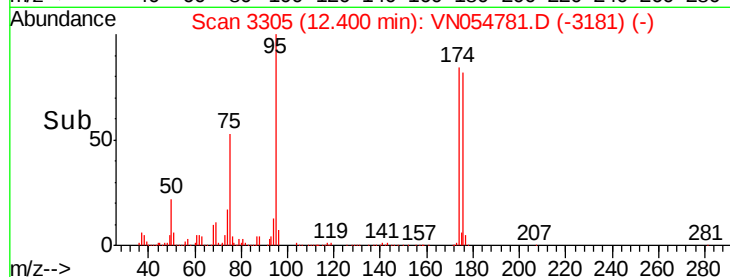
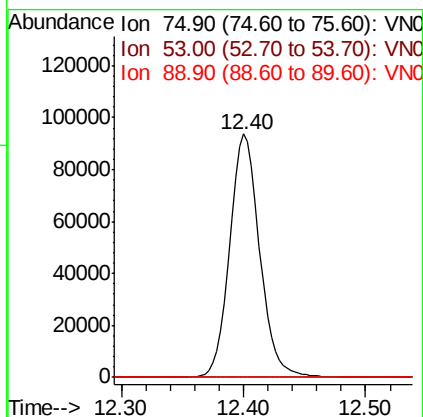
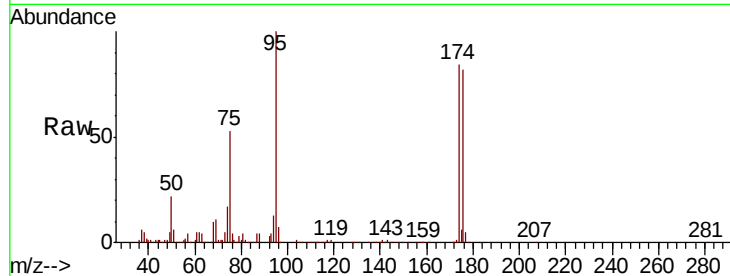




#81
trans-1,4-Dichloro-2-butene
Concen: 134.745 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

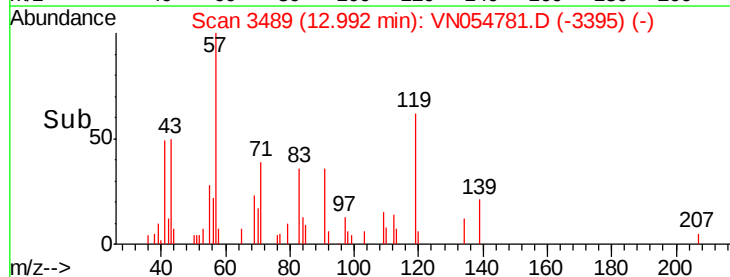
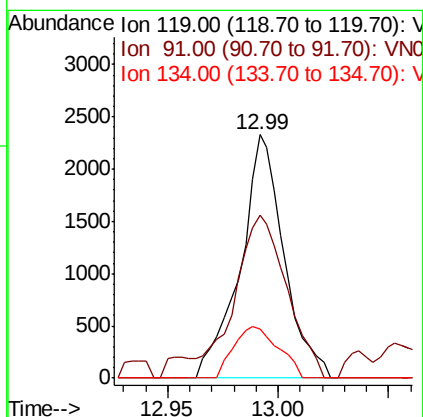
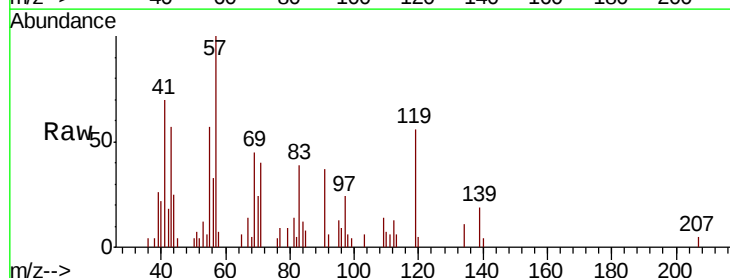
Instrument :
MSVOA_N
ClientSampleId :

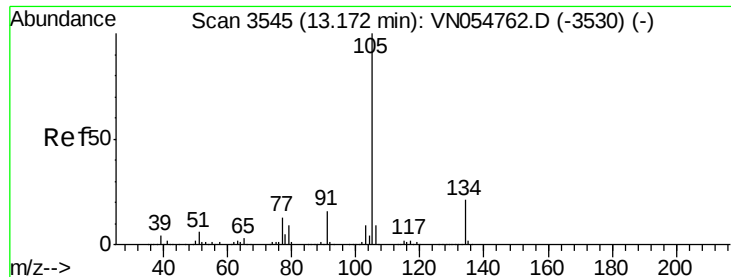
Tot Ion: 75 Resp: 160531
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#



#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Tgt Ion: 119 Resp: 3203
Ion Ratio Lower Upper
119 100
91 79.6 30.9 92.8
134 21.6 13.2 39.6





#85

sec-Butylbenzene

Concen: 0.278 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054781.D

Acq: 29 Mar 2019 20:11

Instrument :

MSVOA_N

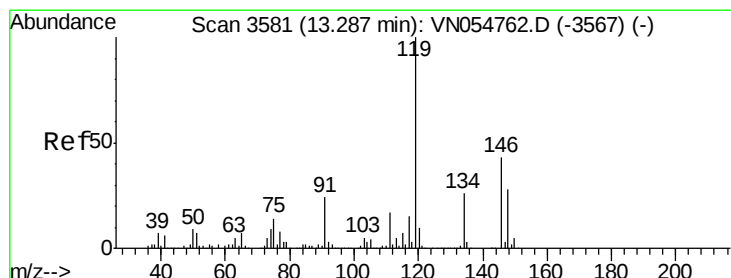
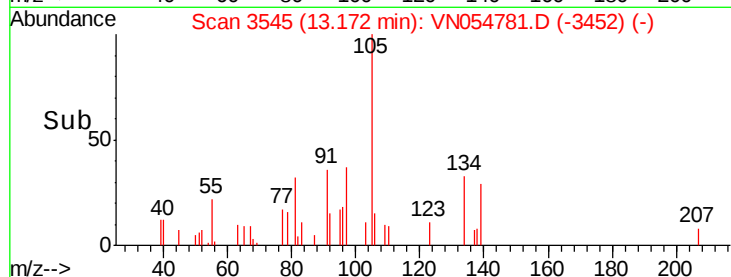
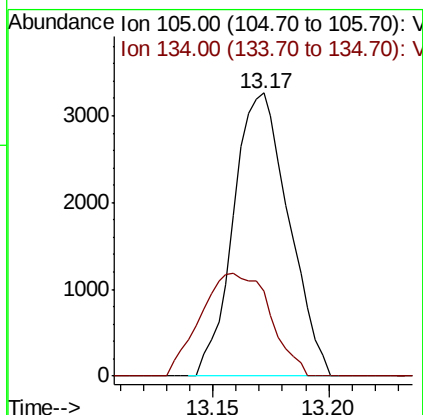
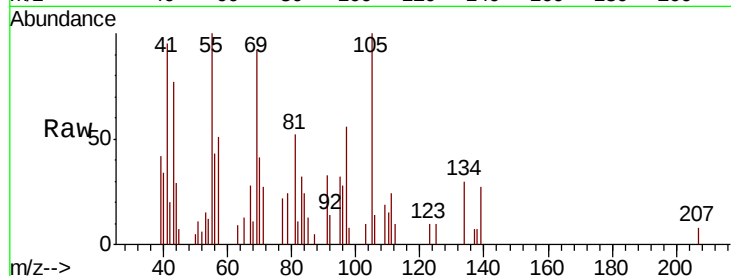
ClientSampleId :

Tot Ion:105 Resp: 5398

Ion Ratio Lower Upper

105 100

134 45.7 10.7 32.1#



#86

p-Isopropyltoluene

Concen: 0.224 ug/l

RT: 13.45 min Scan# 3630

Delta R.T. 0.16 min

Lab File: VN054781.D

Acq: 29 Mar 2019 20:11

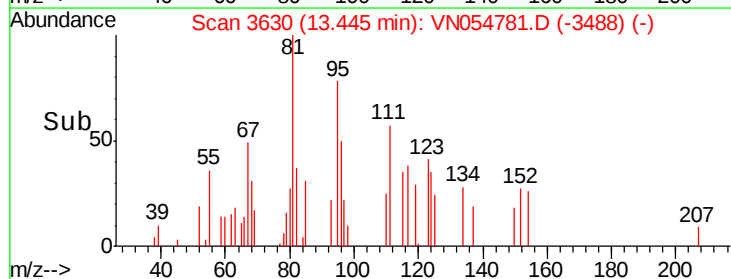
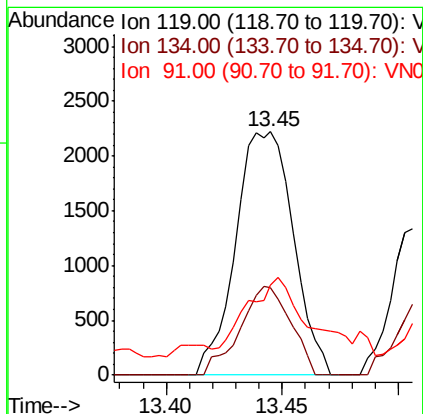
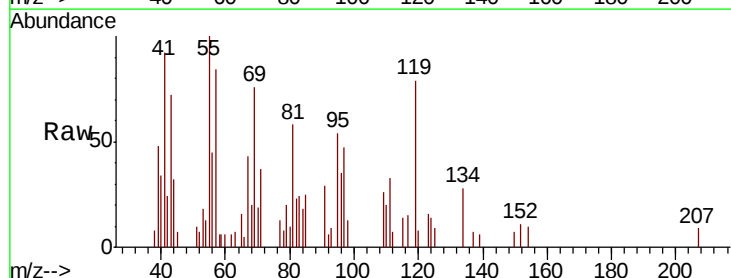
Tgt Ion:119 Resp: 3832

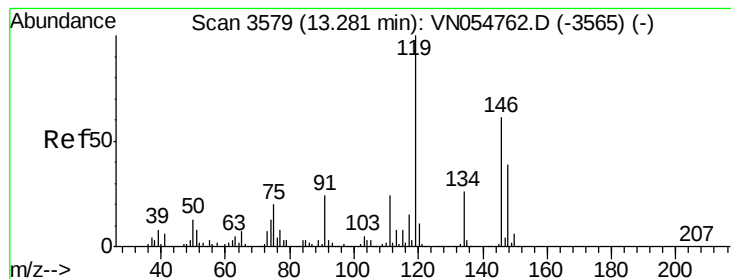
Ion Ratio Lower Upper

119 100

134 32.1 13.6 40.8

91 27.9 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 0.882 ug/l

RT: 13.28 min Scan# 3579

Delta R.T. 0.00 min

Lab File: VN054781.D

Acq: 29 Mar 2019 20:11

Instrument :

MSVOA_N

ClientSampleId :

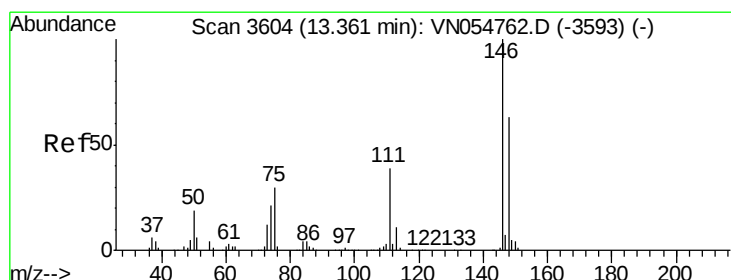
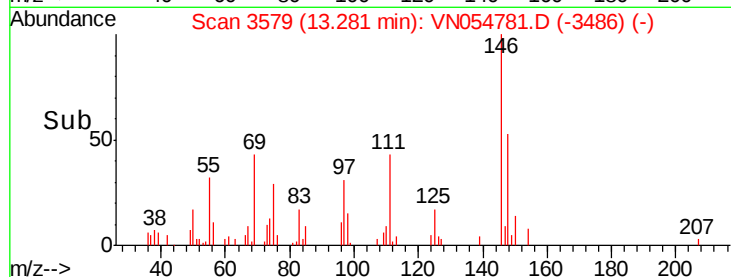
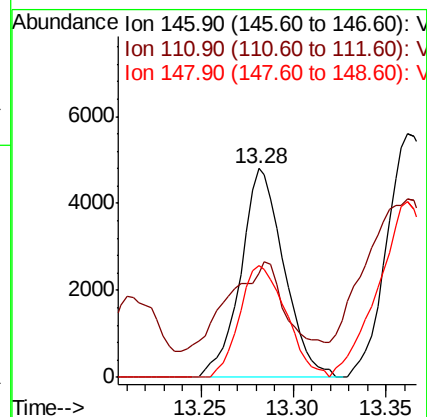
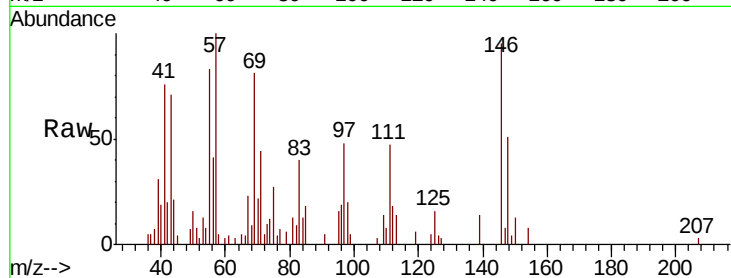
Tot Ion:146 Resp: 7772

Ion Ratio Lower Upper

146 100

111 63.0 18.8 56.3#

148 57.4 32.2 96.6



#88

1,4-Dichlorobenzene

Concen: 1.167 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. 0.00 min

Lab File: VN054781.D

Acq: 29 Mar 2019 20:11

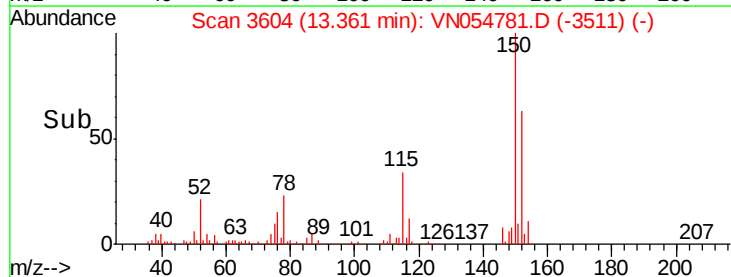
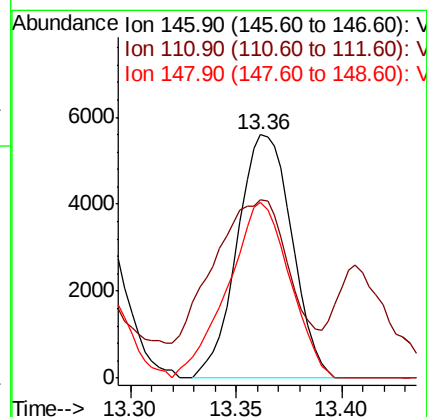
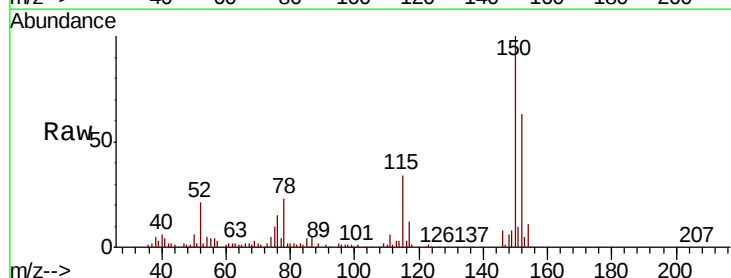
Tgt Ion:146 Resp: 10085

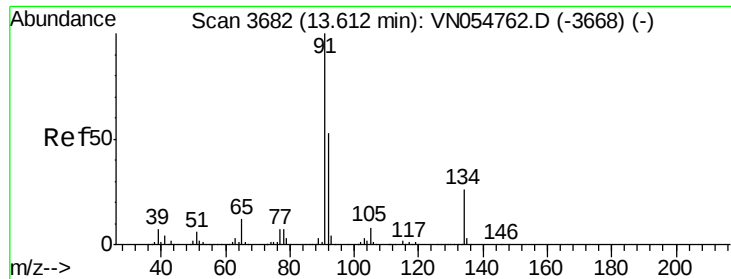
Ion Ratio Lower Upper

146 100

111 88.2 18.1 54.1#

148 82.1 32.0 96.0

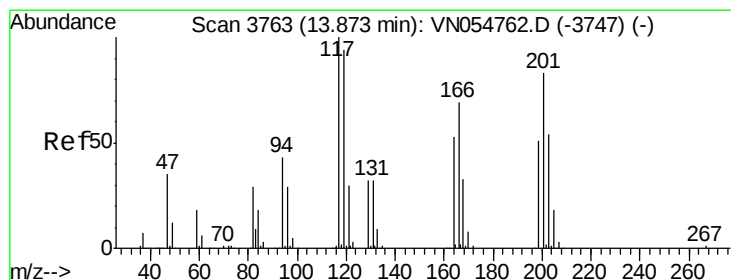
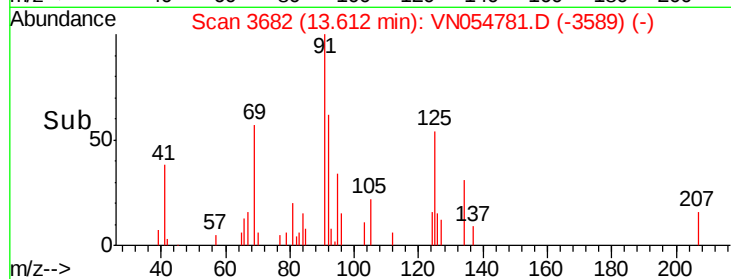
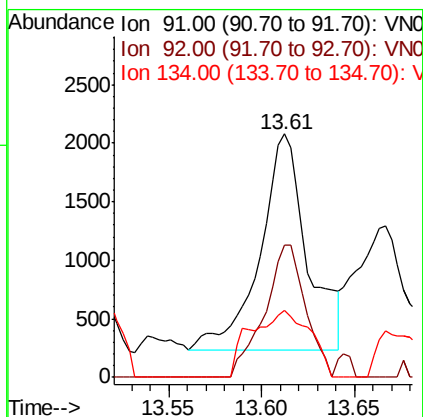
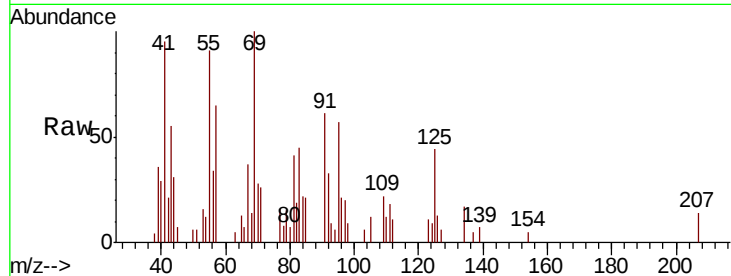




#89
n-Butylbenzene
Concen: 0.234 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

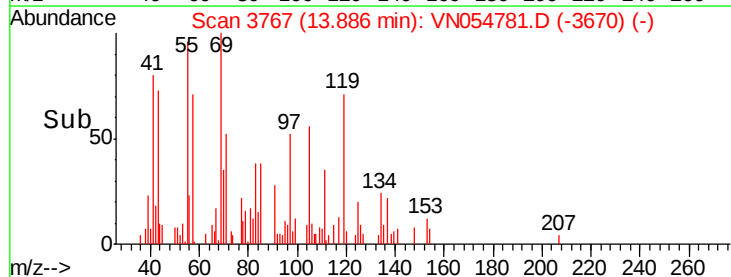
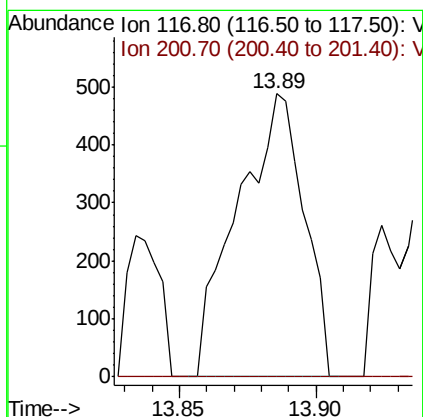
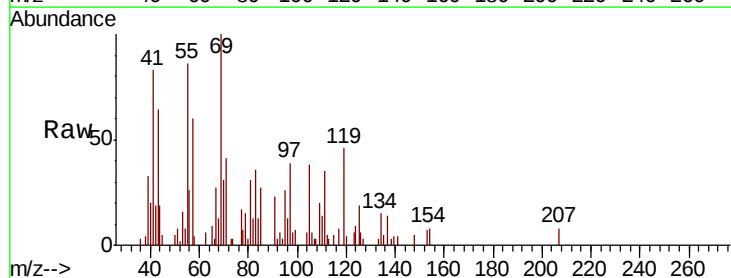
Instrument :
MSVOA_N
ClientSampleId :

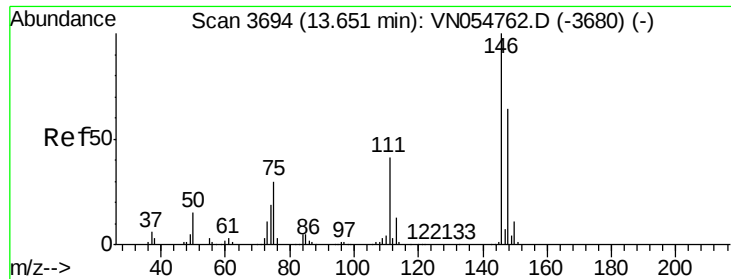
Tot Ion: 91 Resp: 3268
Ion Ratio Lower Upper
91 100
92 53.3 26.2 78.6
134 38.9 14.3 42.9



#90
Hexachloroethane
Concen: 0.284 ug/l
RT: 13.89 min Scan# 3767
Delta R.T. 0.01 min
Lab File: VN054781.D
Acq: 29 Mar 2019 20:11

Tgt Ion: 117 Resp: 826
Ion Ratio Lower Upper
117 100
201 0.0 48.1 144.4#





#91

1,2-Dichlorobenzene

Concen: 0.505 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054781.D

Acq: 29 Mar 2019 20:11

Instrument :

MSVOA_N

ClientSampleId :

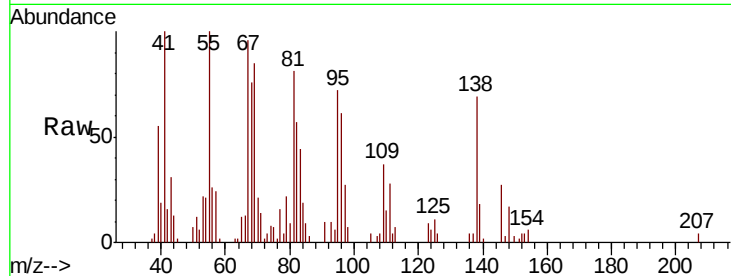
Tot Ion:146 Resp: 4494

Ion Ratio Lower Upper

146 100

111 88.5 19.1 57.3#

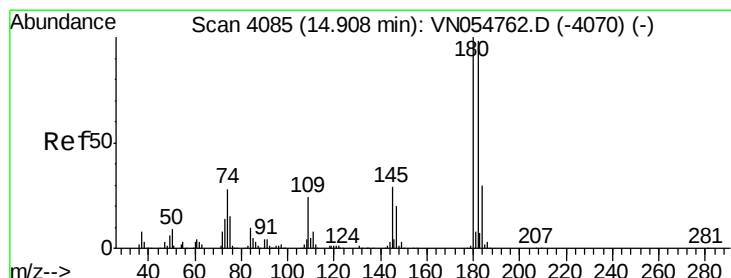
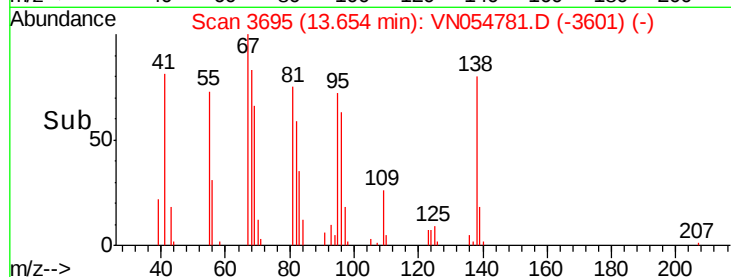
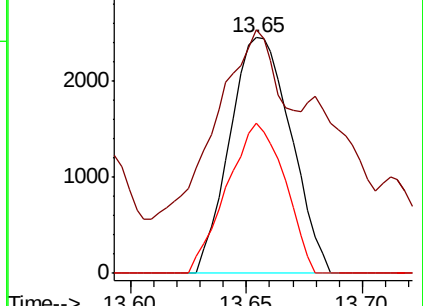
148 60.2 32.4 97.0



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: 0.412 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054781.D

Acq: 29 Mar 2019 20:11

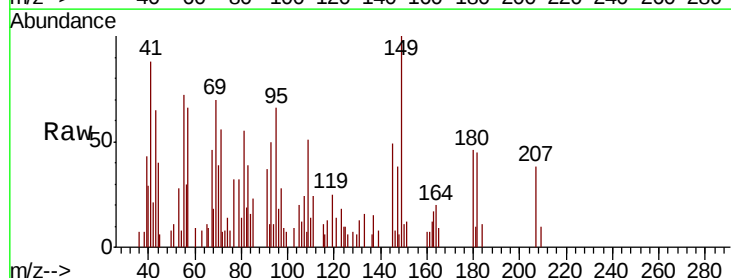
Tgt Ion:180 Resp: 1767

Ion Ratio Lower Upper

180 100

182 93.2 48.0 144.2

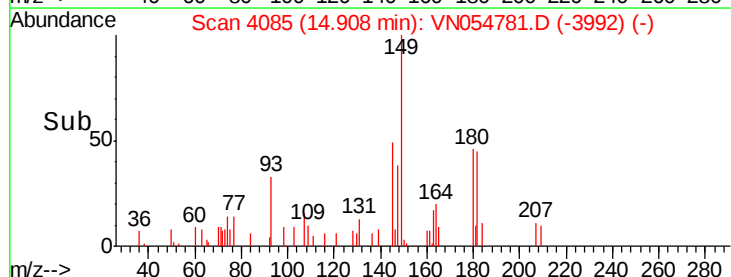
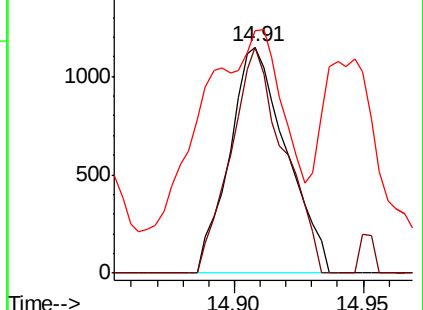
145 168.3 14.2 42.8#

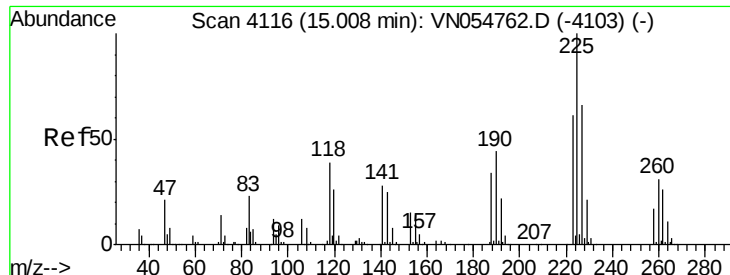


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN054781.D

Acq: 29 Mar 2019 20:11

Instrument :

MSVOA_N

ClientSampleId :

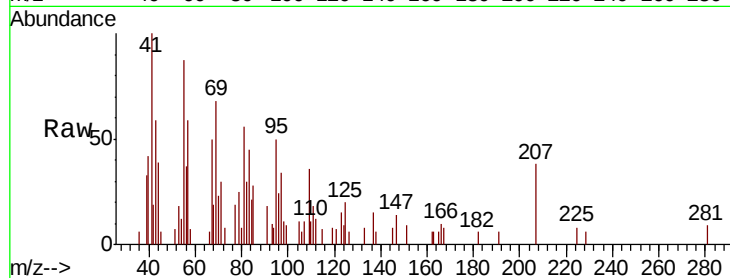
Tot Ion: 225 Resp: 141

Ion Ratio Lower Upper

225 100

223 0.0 31.1 93.5#

227 0.0 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

