

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032919\
 Data File : VN054791.D
 Acq On : 30 Mar 2019 00:36
 Operator : JC/SP
 Sample : K2086-03
 Misc : 9.51u/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 30 21:49:16 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	473553	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	768308	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	669059	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	280050	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	306978	48.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.18%	
35) Dibromofluoromethane	7.59	113	238443	46.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.10%	
50) Toluene-d8	10.09	98	929380	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
62) 4-Bromofluorobenzene	12.40	95	308422	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	

Target Compounds

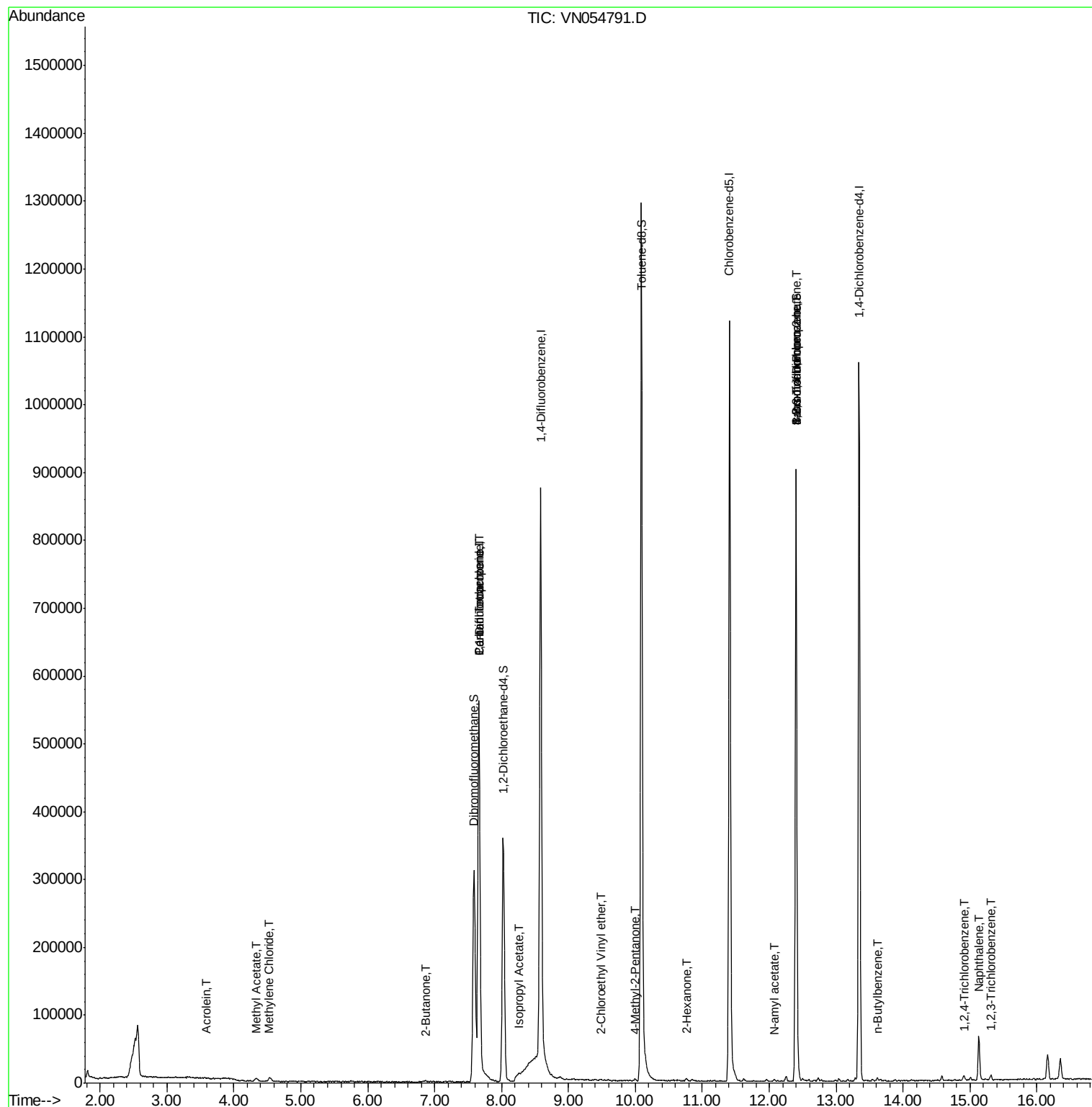
						Qvalue
5) Bromomethane	2.57	94	316	Below Cal	#	2
13) Acrolein	3.60	56	384	1.291	ug/l #	24
18) Methyl Acetate	4.34	43	9472	1.497	ug/l #	68
20) Methylene Chloride	4.54	84	3614	0.673	ug/l	96
25) 2-Butanone	6.87	43	2337	1.039	ug/l	94
31) Cyclohexane	7.66	56	10337	Below Cal	#	22
36) 1,1-Dichloropropene	7.66	75	36283	5.068	ug/l #	48
38) Carbon Tetrachloride	7.66	117	44146	6.349	ug/l #	16
43) Isopropyl Acetate	8.26	43	14084	1.651	ug/l #	60
51) 4-Methyl-2-Pentanone	9.99	43	2131	0.444	ug/l #	59
58) 2-Chloroethyl Vinyl ether	9.49	63	64	10.378	ug/l #	44
59) 2-Hexanone	10.76	43	2758	0.898	ug/l	89
71) Bromoform	12.40	173	3162	1.101	ug/l #	1
74) N-amyl acetate	12.08	43	1570	0.220	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	12.51	83	316	Below Cal	#	72
76) 1,2,3-Trichloropropane	12.40	75	158240	32.525	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	158240	126.516	ug/l #	11
83) tert-Butylbenzene	12.99	119	1005	Below Cal	#	79
89) n-Butylbenzene	13.62	91	2937	0.200	ug/l	92
93) 1,2,4-Trichlorobenzene	14.91	180	2162	0.480	ug/l	96
94) Hexachlorobutadiene	15.00	225	1053	Below Cal	#	77
95) Naphthalene	15.13	128	53639	5.314	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	2403	0.529	ug/l	93

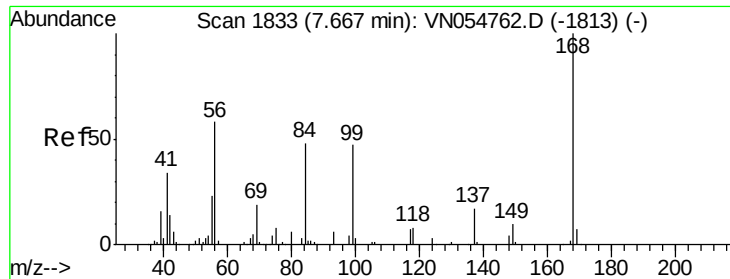
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054791.D

Acq: 30 Mar 2019 00:36

Instrument :

MSVOA_N

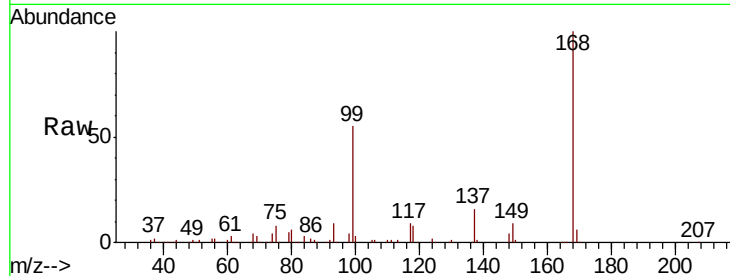
ClientSampled :

Tot Ion:168 Resp: 473553

Ion Ratio Lower Upper

168 100

99 54.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054762.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054762.D (-1813) (-)

7.66

200000

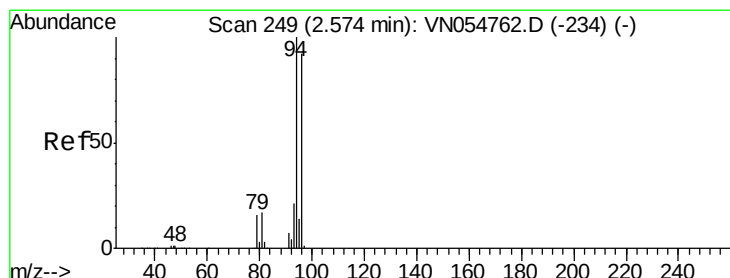
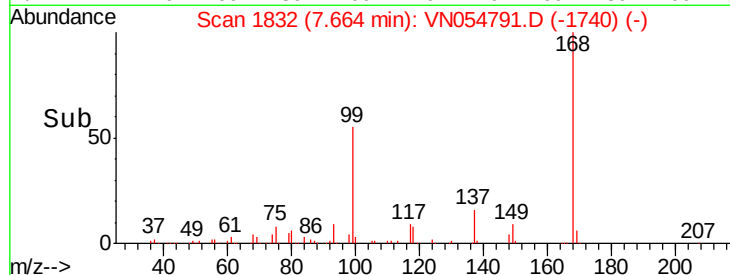
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 247

Delta R.T. -0.01 min

Lab File: VN054791.D

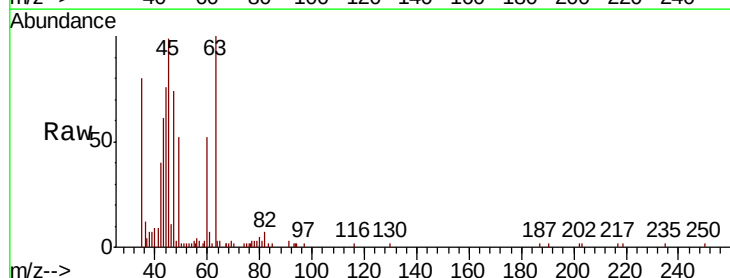
Acq: 30 Mar 2019 00:36

Tgt Ion: 94 Resp: 316

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054762.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN054762.D (-234) (-)

2.57

400

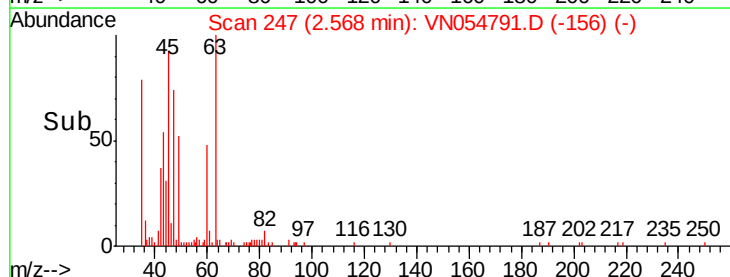
300

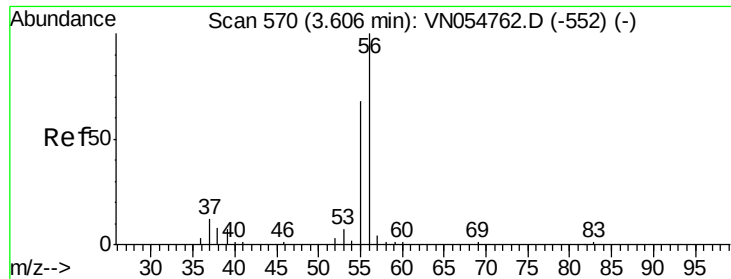
200

100

0

Time-->

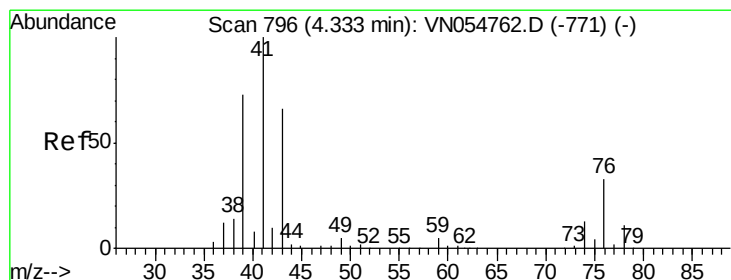
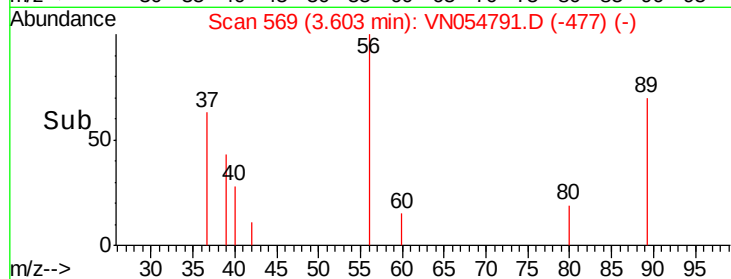
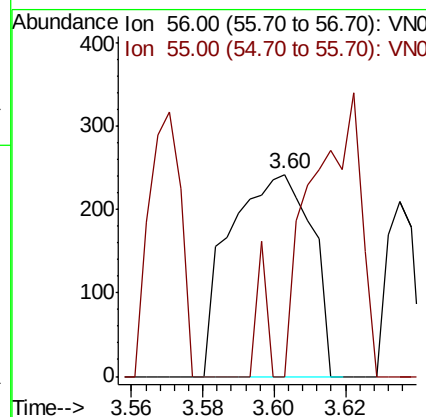
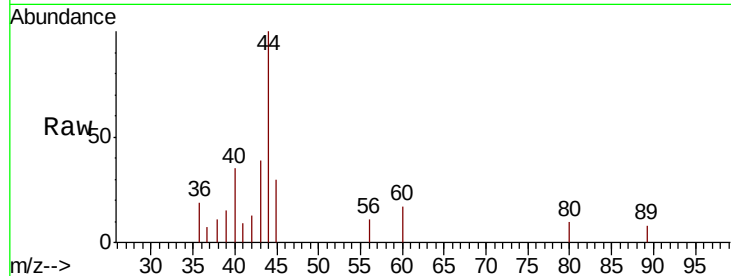




#13
Acrolein
Concen: 1.291 ug/l
RT: 3.60 min Scan# 569
Delta R.T. -0.00 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

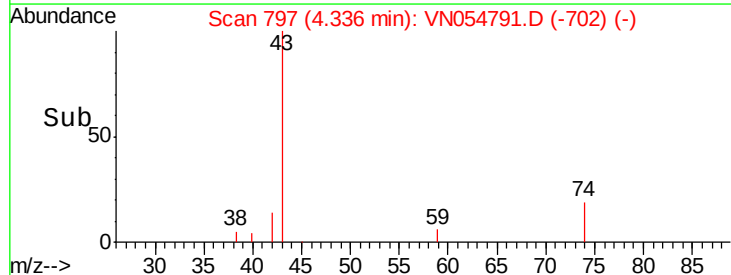
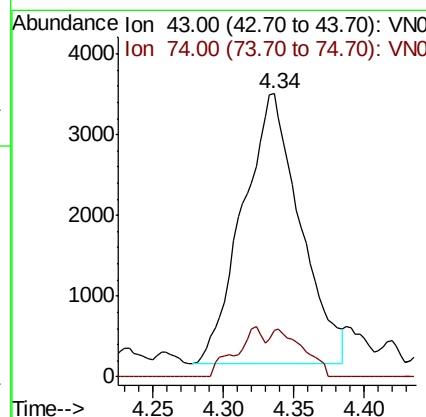
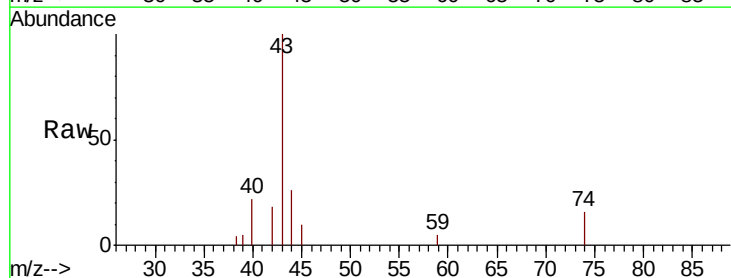
Instrument :
MSVOA_N
ClientSampleId :

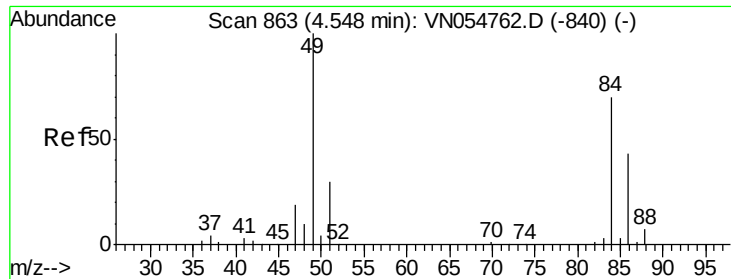
Tot Ion: 56 Resp: 384
Ion Ratio Lower Upper
56 100
55 8.1 56.7 85.1#



#18
Methyl Acetate
Concen: 1.497 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.00 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Tgt Ion: 43 Resp: 9472
Ion Ratio Lower Upper
43 100
74 9.5 20.8 31.2#

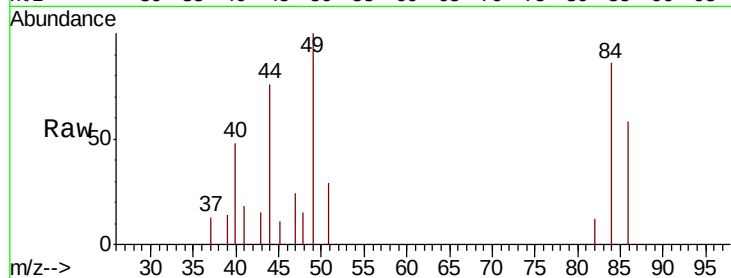




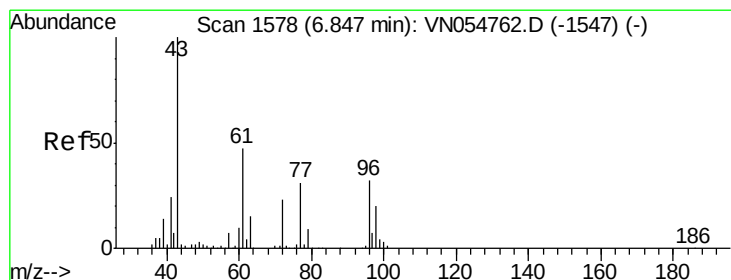
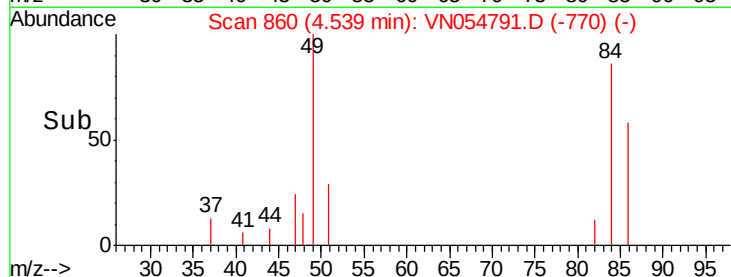
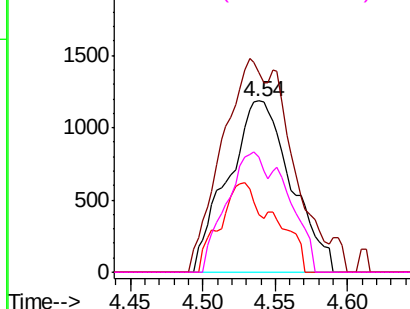
#20
Methvlene Chloride
Concen: 0.673 ug/l
RT: 4.54 min Scan# 860
Delta R.T. -0.01 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 3614
Ion Ratio Lower Upper
84 100
49 116.7 89.7 134.5
51 33.3 28.2 42.4
86 67.5 50.8 76.2

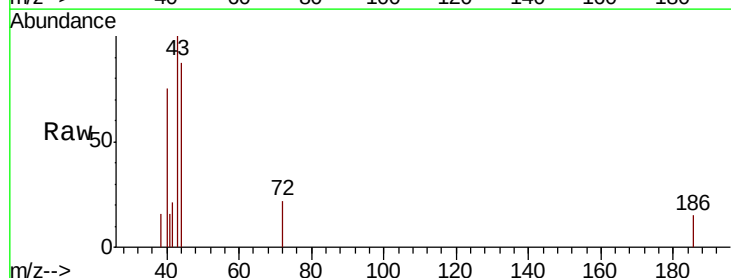


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

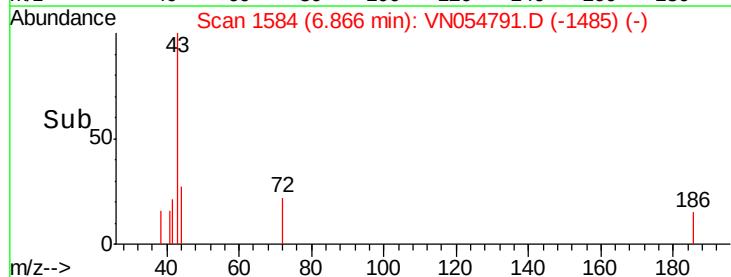
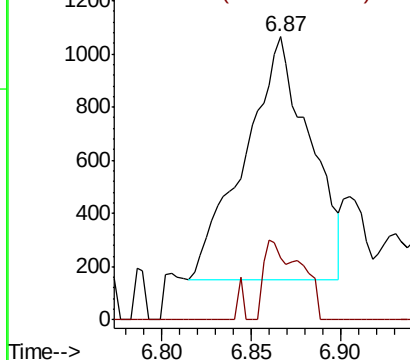


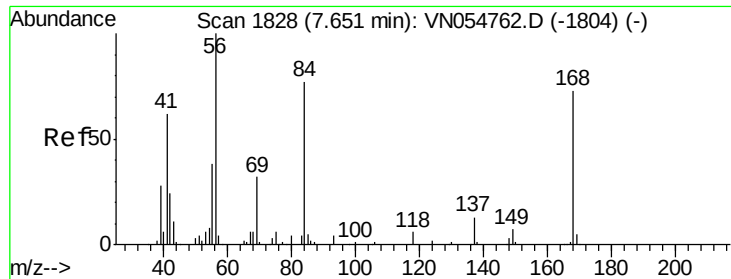
#25
2-Butanone
Concen: 1.039 ug/l
RT: 6.87 min Scan# 1584
Delta R.T. 0.02 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Tgt Ion: 43 Resp: 2337
Ion Ratio Lower Upper
43 100
72 25.6 23.0 34.6



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

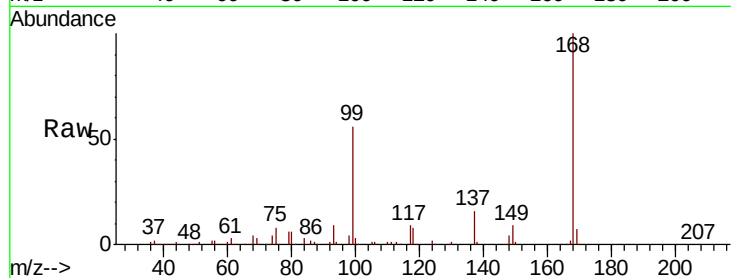




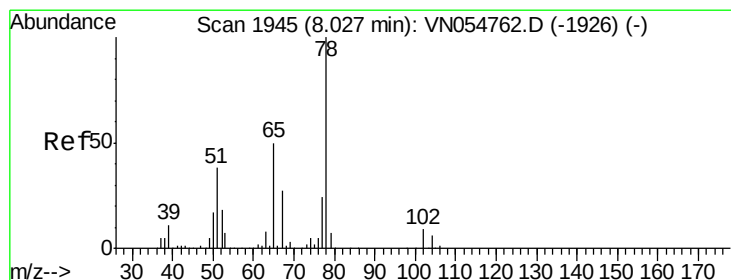
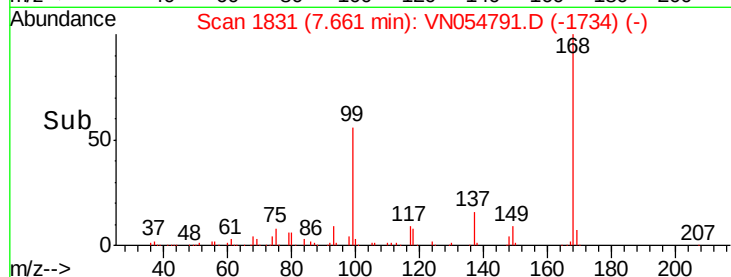
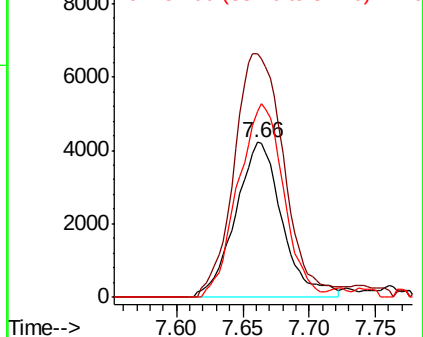
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 10337
Ion Ratio Lower Upper
56 100
69 157.1 27.8 41.6#
84 120.4 74.6 111.8#

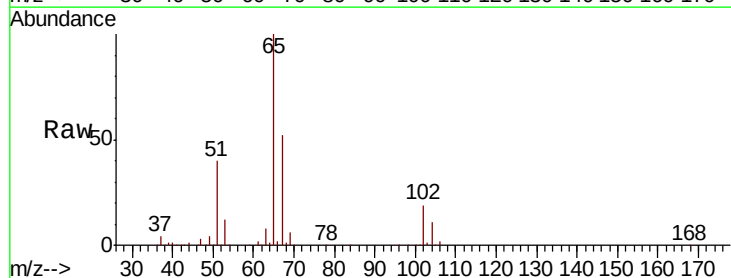


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

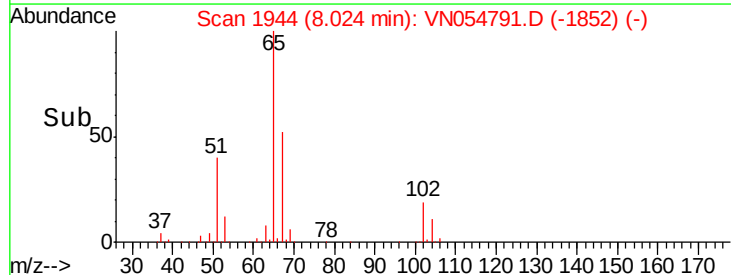
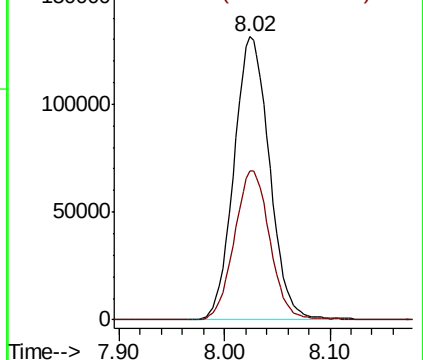


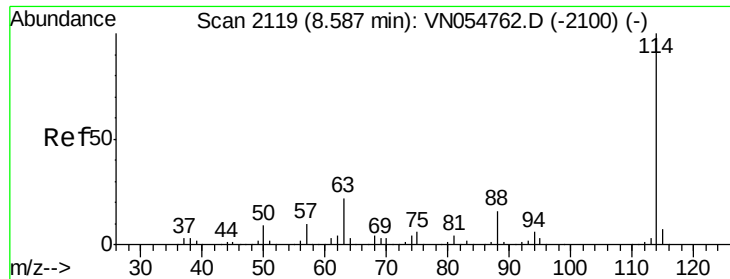
#33
1,2-Dichloroethane-d4
Concen: 48.088 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Tgt Ion: 65 Resp: 306978
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

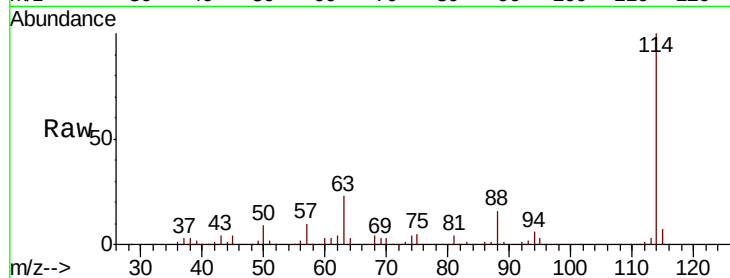




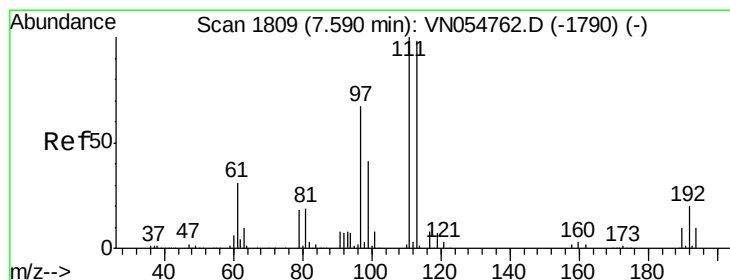
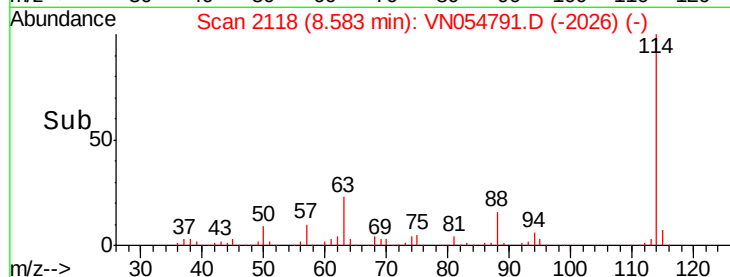
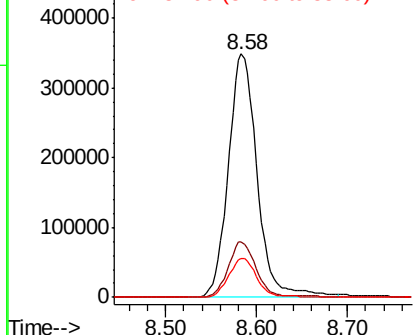
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054791.D
 Acq: 30 Mar 2019 00:36

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 768308
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 35.2
 88 16.1 0.0 30.2

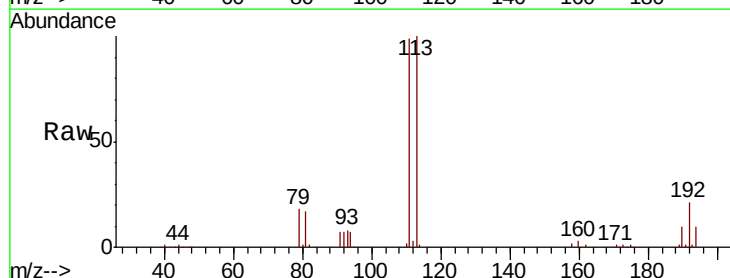


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

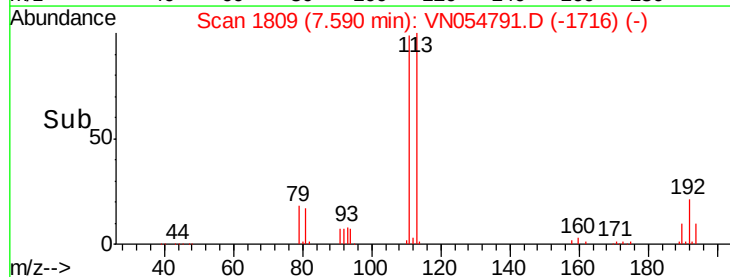
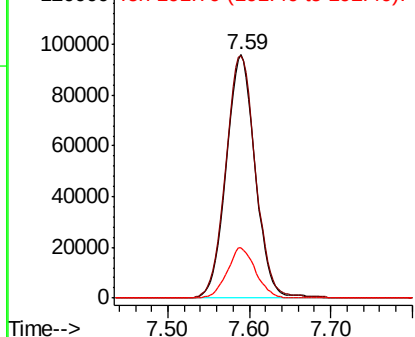


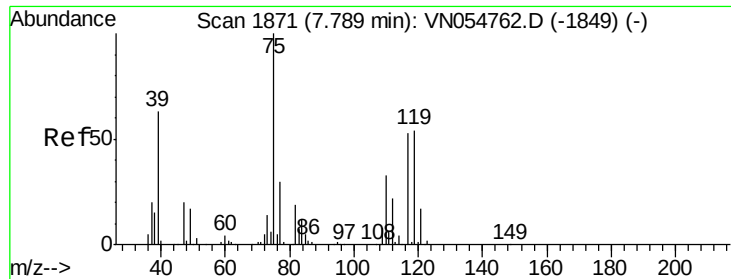
#35
 Dibromofluoromethane
 Concen: 46.551 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054791.D
 Acq: 30 Mar 2019 00:36

Tgt Ion:113 Resp: 238443
 Ion Ratio Lower Upper
 113 100
 111 102.8 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

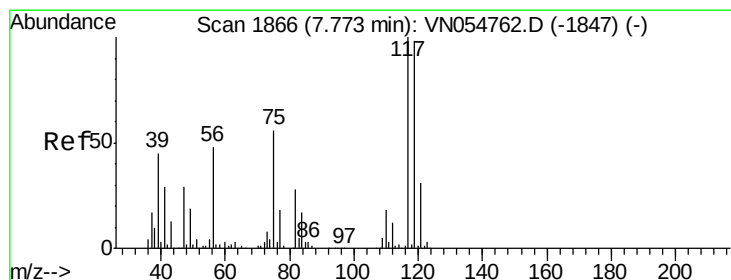
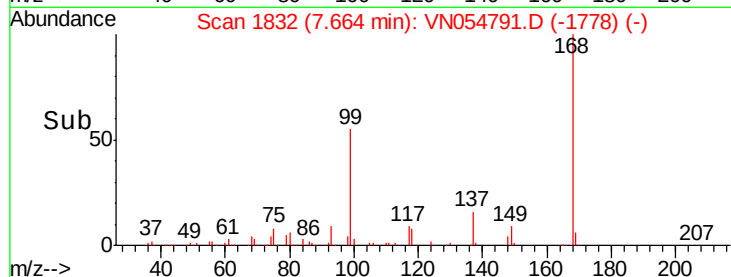
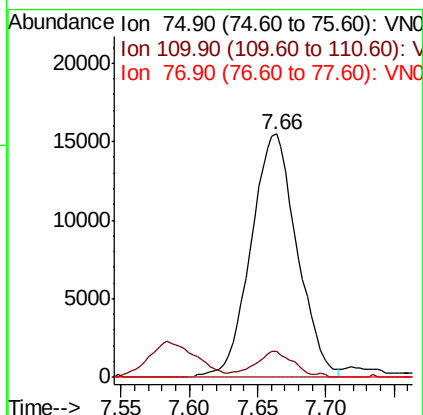
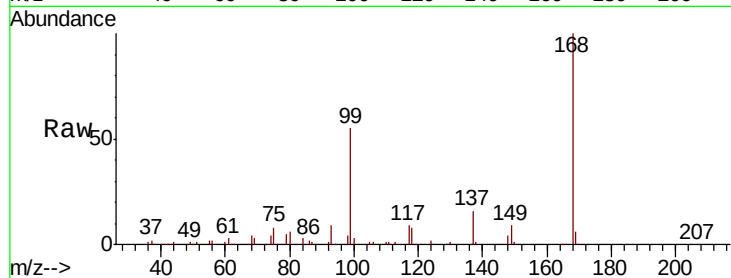




#36
 1,1-Dichloropropene
 Concen: 5.068 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054791.D
 Acq: 30 Mar 2019 00:36

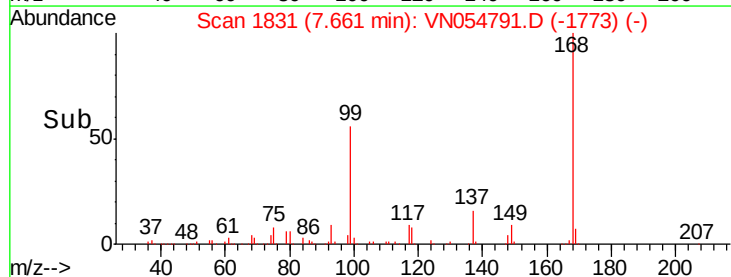
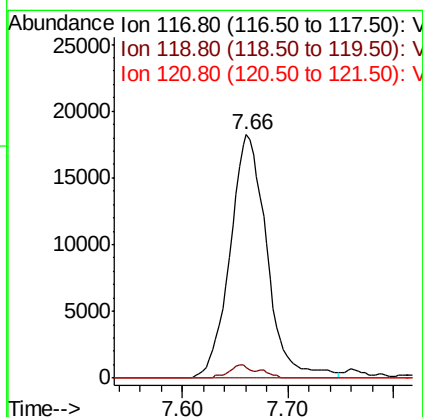
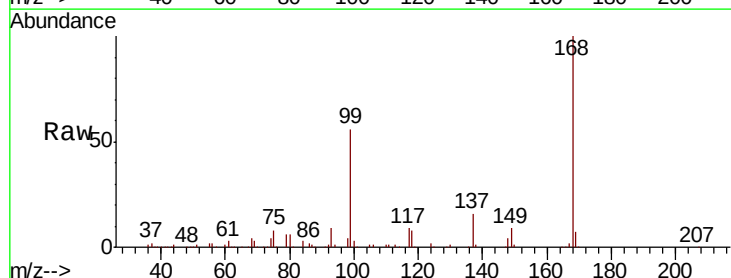
Instrument :
 MSVOA_N
 ClientSampled :

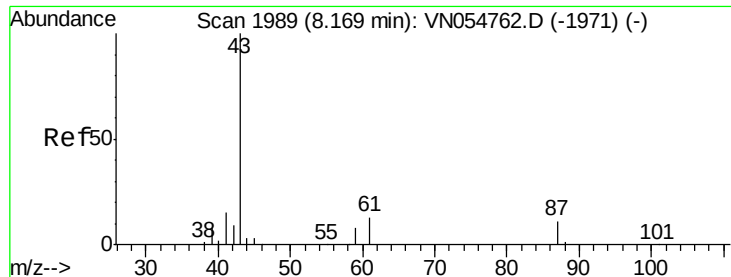
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.349 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN054791.D
 Acq: 30 Mar 2019 00:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 1.651 ug/l

RT: 8.26 min Scan# 2018

Delta R.T. 0.09 min

Lab File: VN054791.D

Acq: 30 Mar 2019 00:36

Instrument :

MSVOA_N

ClientSampleId :

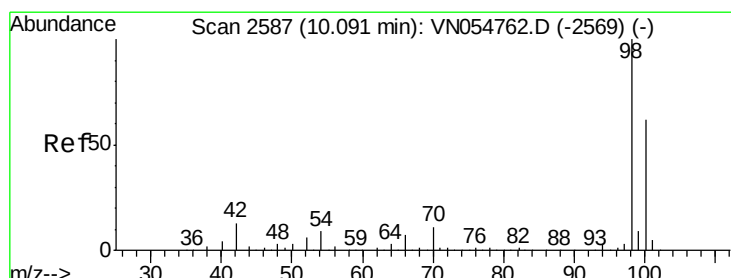
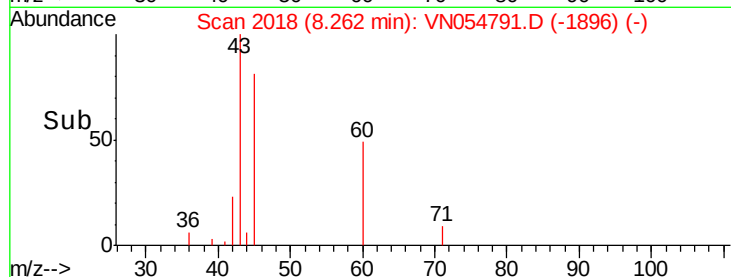
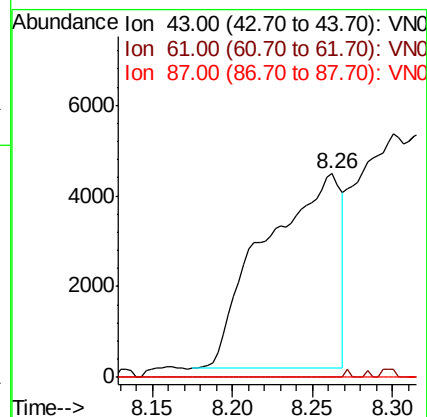
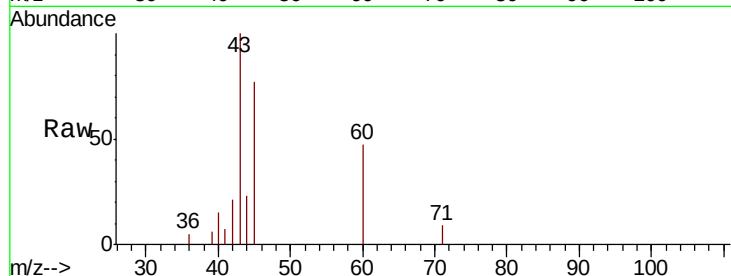
Tot Ion: 43 Resp: 14084

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

87 0.0 12.0 18.0#



#50

Toluene-d8

Concen: 48.803 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054791.D

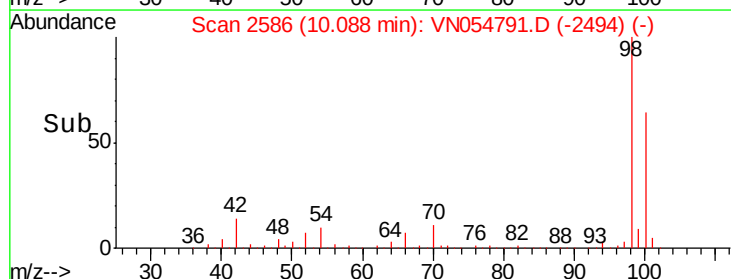
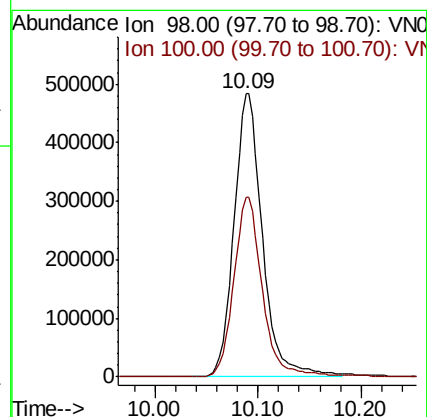
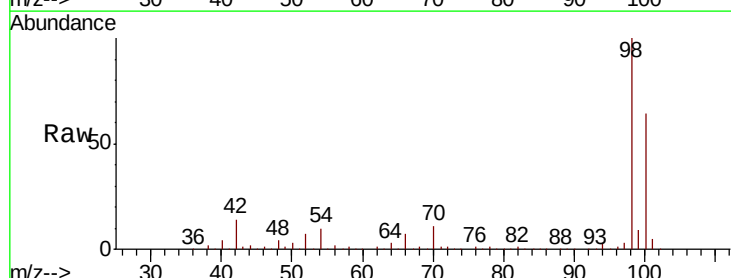
Acq: 30 Mar 2019 00:36

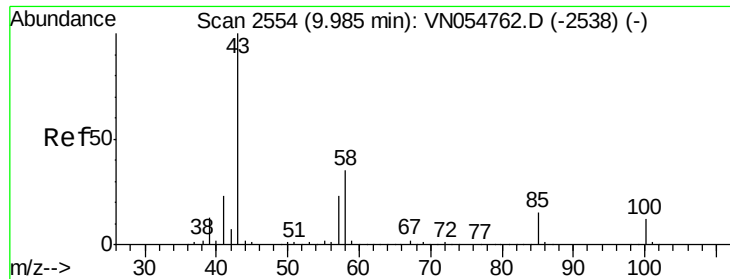
Tgt Ion: 98 Resp: 929380

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 0.444 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054791.D

Acq: 30 Mar 2019 00:36

Instrument :

MSVOA_N

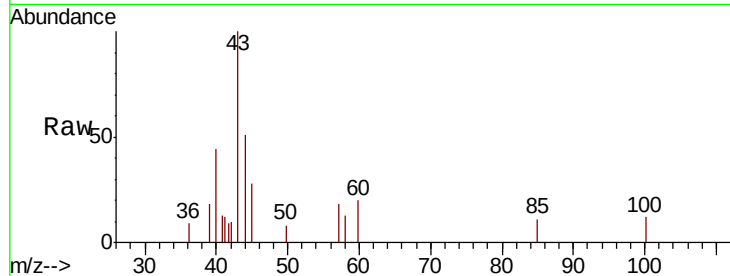
ClientSampled :

Tot Ion: 43 Resp: 2131

Ion Ratio Lower Upper

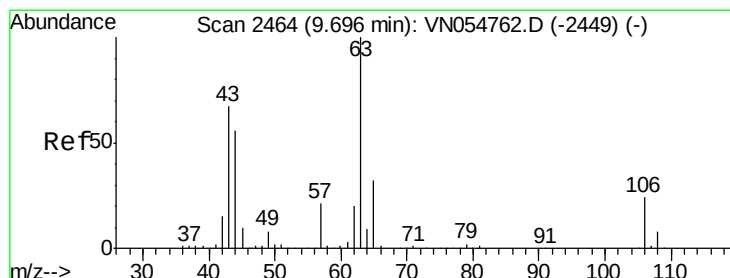
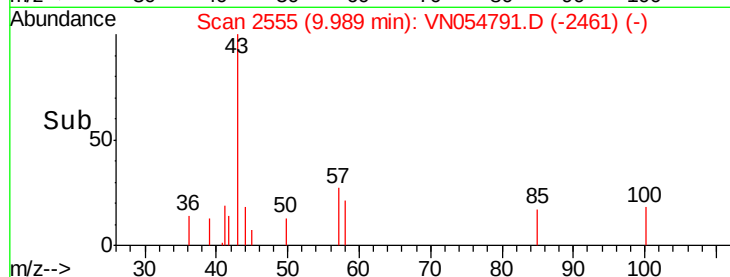
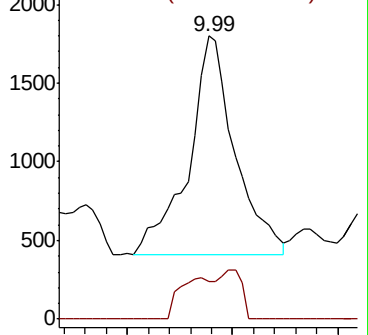
43 100

58 14.6 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054762.D (-2538) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 10.378 ug/l

RT: 9.49 min Scan# 2399

Delta R.T. -0.21 min

Lab File: VN054791.D

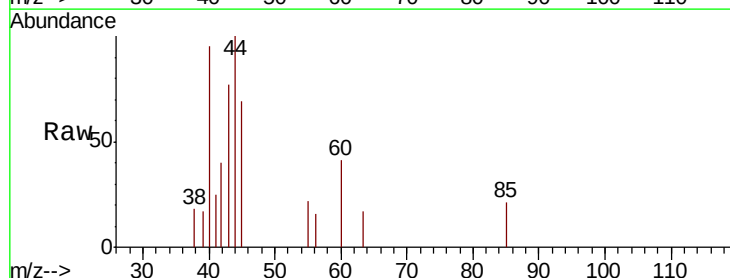
Acq: 30 Mar 2019 00:36

Tgt Ion: 63 Resp: 64

Ion Ratio Lower Upper

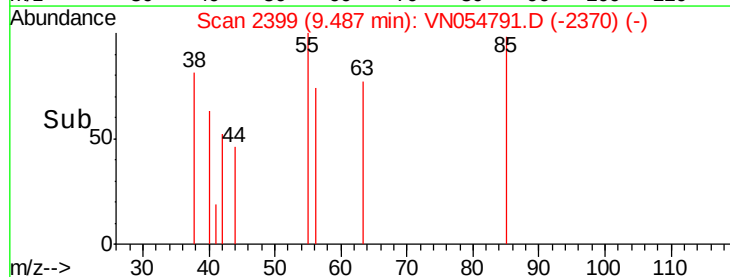
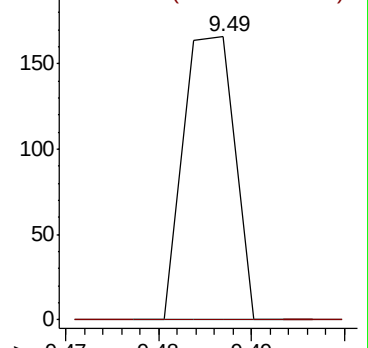
63 100

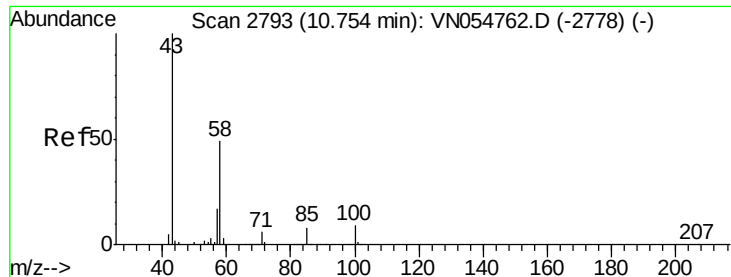
106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN054762.D (-2449) (-)

Ion 105.90 (105.60 to 106.60): VN054762.D (-2449) (-)

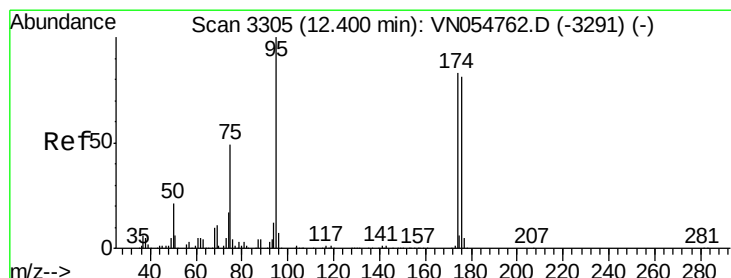
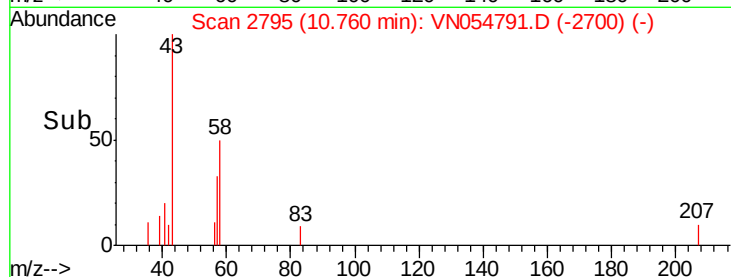
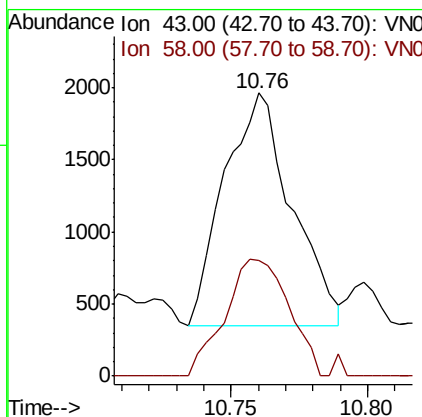
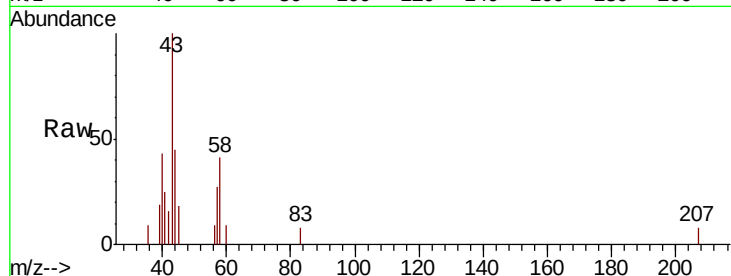




#59
2-Hexanone
Concen: 0.898 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

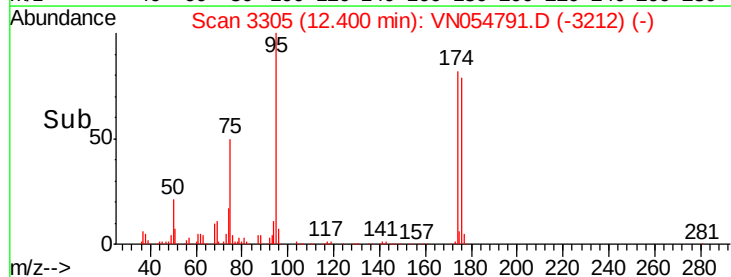
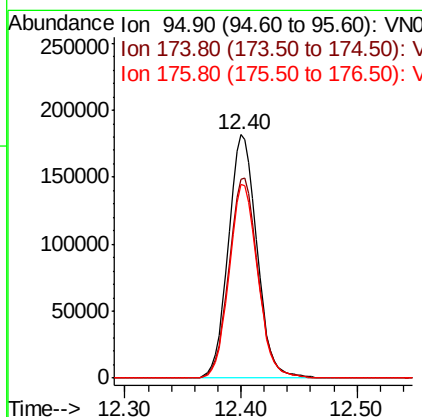
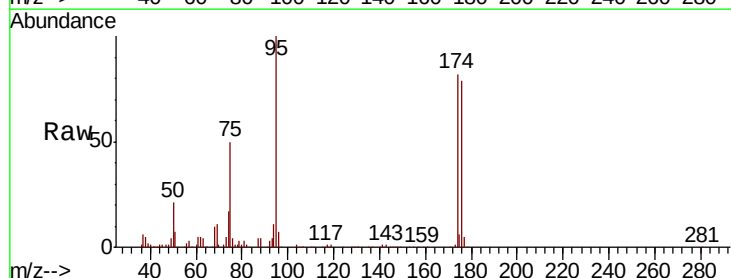
Instrument :
MSVOA_N
ClientSampled :

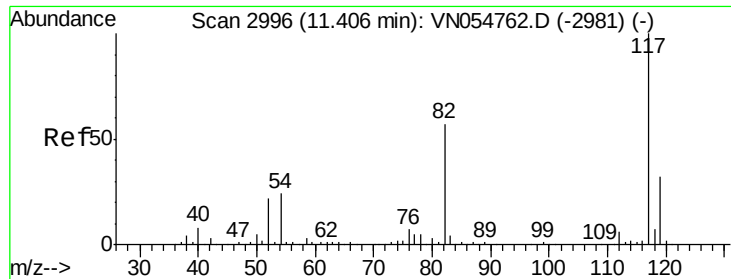
Tot Ion: 43 Resp: 2758
Ion Ratio Lower Upper
43 100
58 47.8 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 48.698 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Tgt Ion: 95 Resp: 308422
Ion Ratio Lower Upper
95 100
174 83.3 0.0 191.0
176 79.6 0.0 187.4

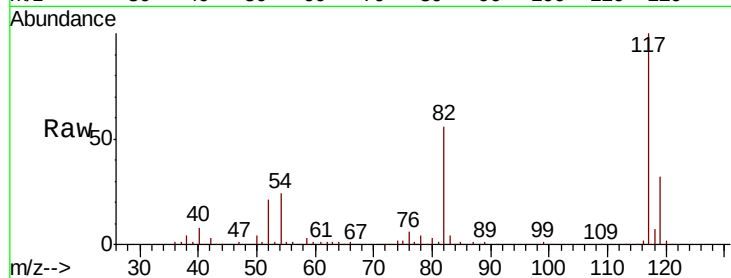




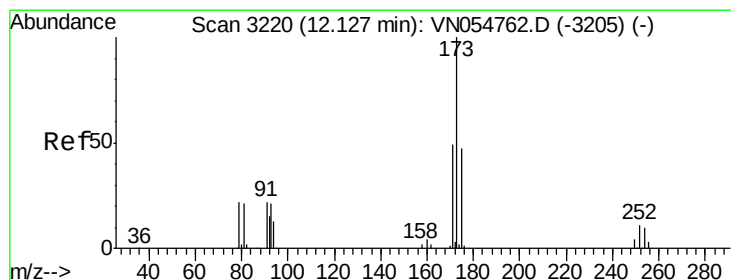
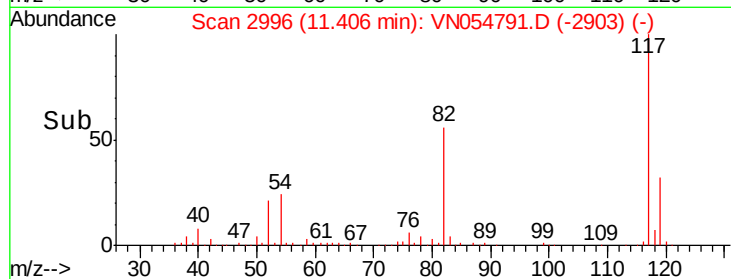
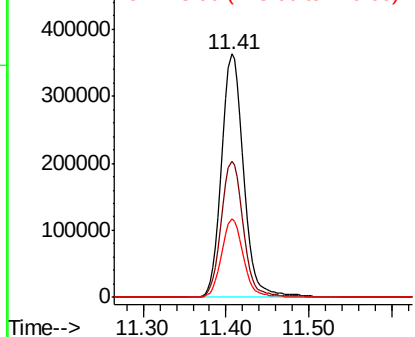
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 669059
Ion Ratio Lower Upper
117 100
82 56.1 40.0 60.0
119 32.0 25.8 38.6

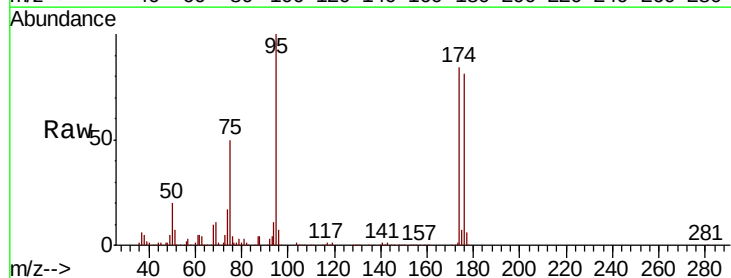


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

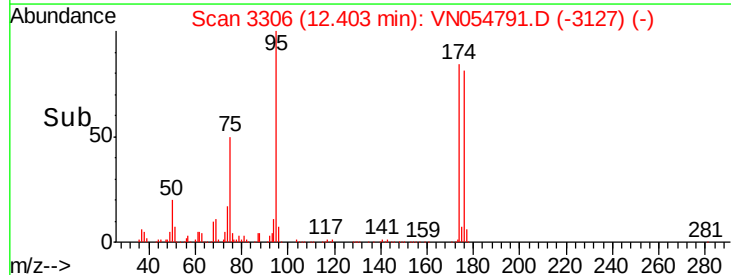
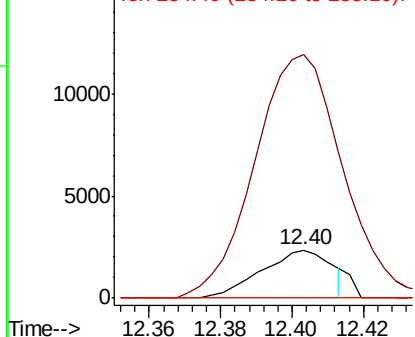


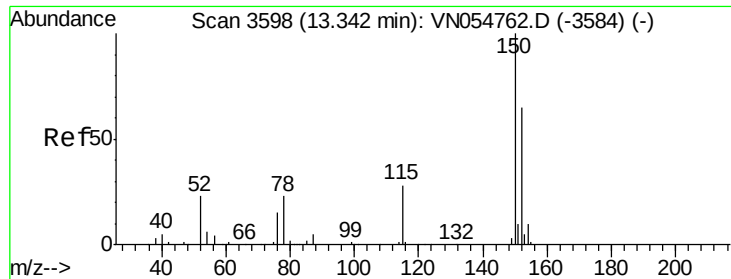
#71
Bromoform
Concen: 1.101 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Tgt Ion:173 Resp: 3162
Ion Ratio Lower Upper
173 100
175 555.3 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



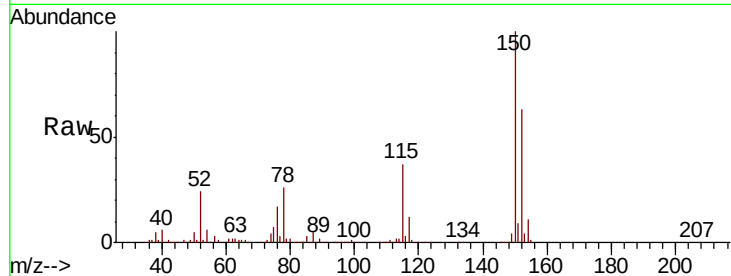


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.3	27.2	81.6
150	157.5	0.0	349.2

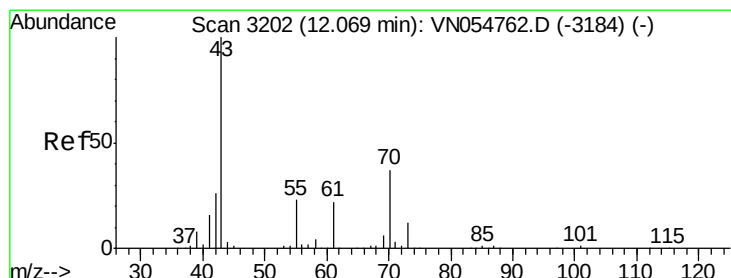
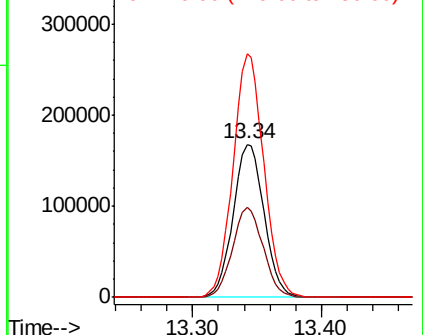
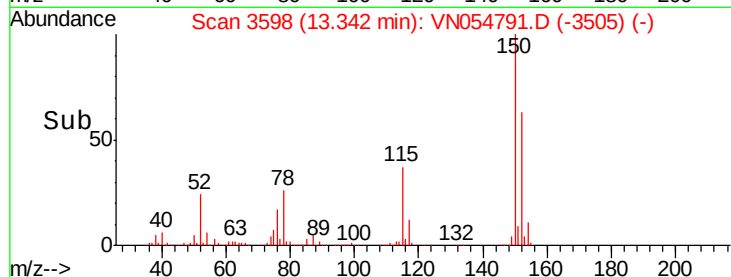


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

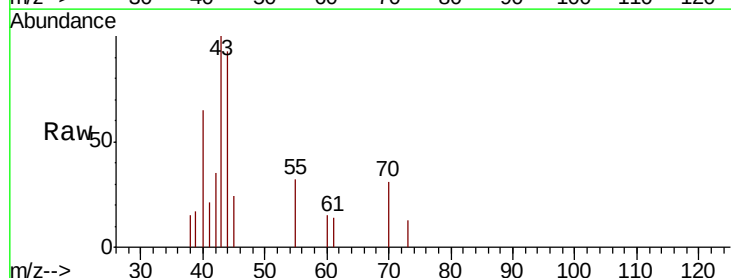
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 0.220 ug/l
RT: 12.08 min Scan# 3205
Delta R.T. 0.01 min
Lab File: VN054791.D
Acq: 30 Mar 2019 00:36

Tgt Ion	Ratio	Lower	Upper
43	100		
70	44.3	35.4	53.0
55	33.6	19.8	29.6
61	26.2	19.8	29.6



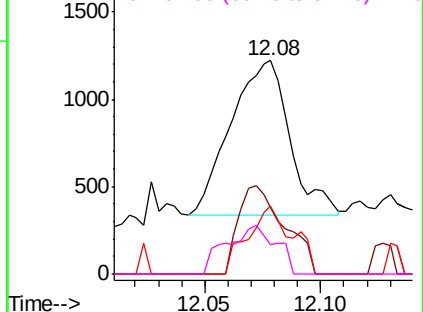
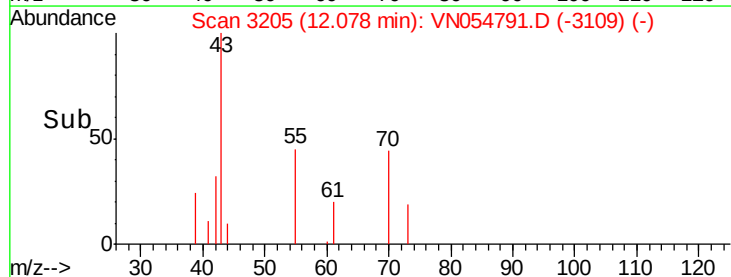
Abundance

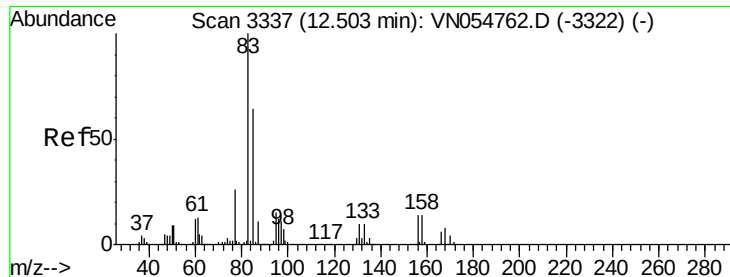
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054791.D

Acq: 30 Mar 2019 00:36

Instrument :

MSVOA_N

ClientSampled :

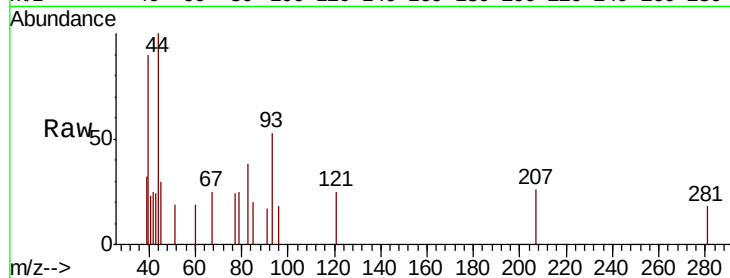
Tot Ion: 83 Resp: 316

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

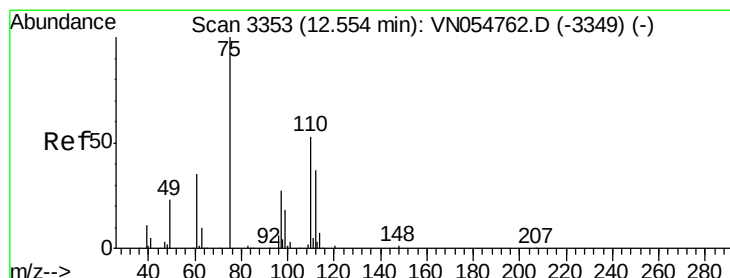
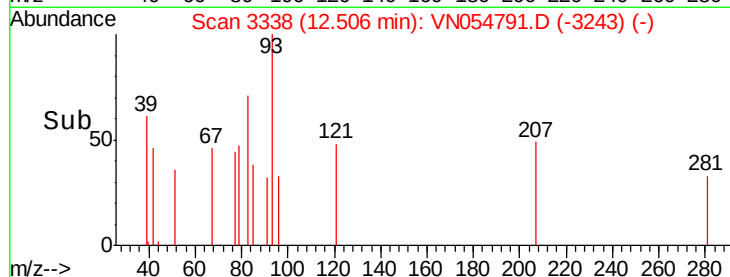
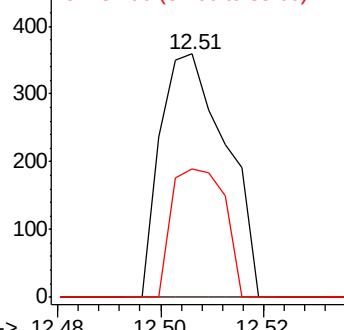
85 42.7 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 32.525 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054791.D

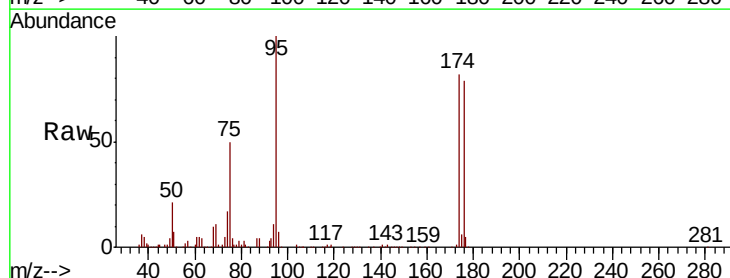
Acq: 30 Mar 2019 00:36

Tgt Ion: 75 Resp: 158240

Ion Ratio Lower Upper

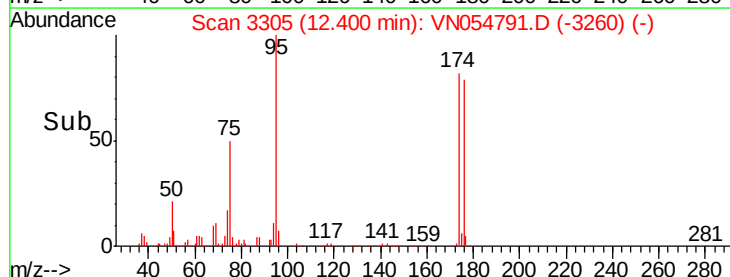
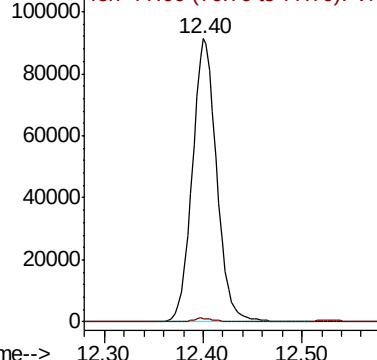
75 100

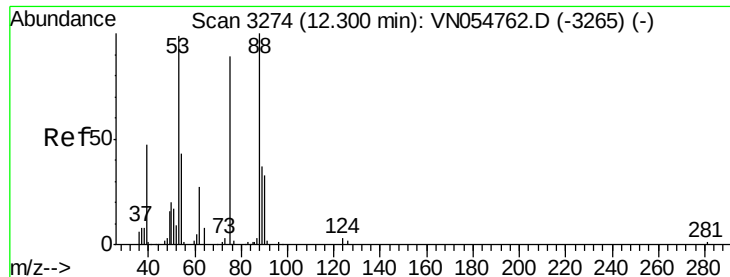
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

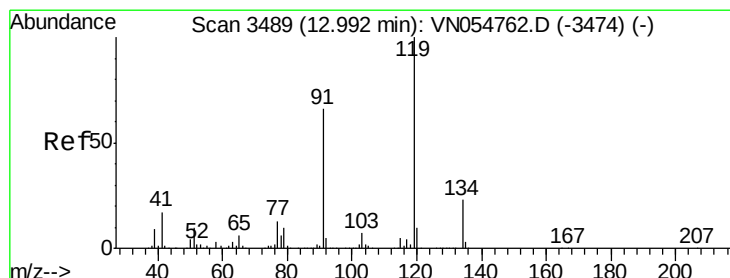
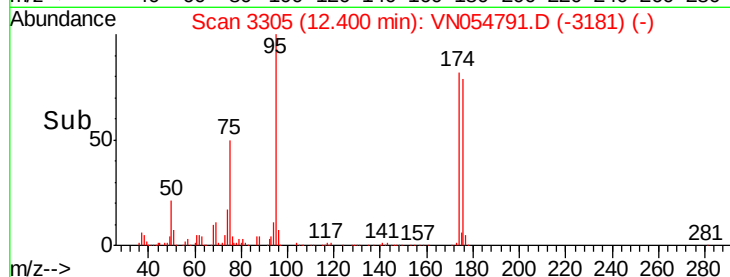
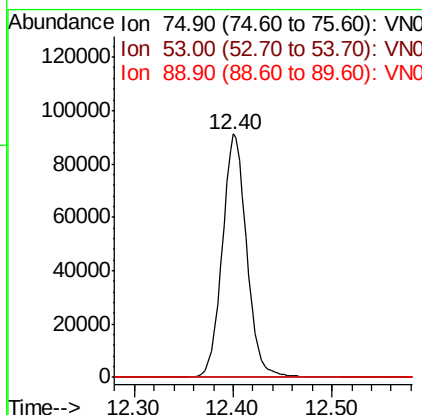
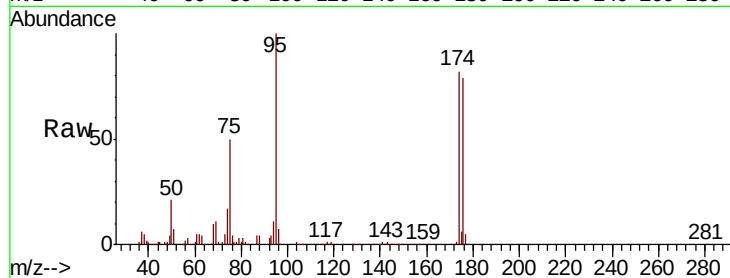




#81
 trans-1,4-Dichloro-2-butene
 Concen: 126.516 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054791.D
 Acq: 30 Mar 2019 00:36

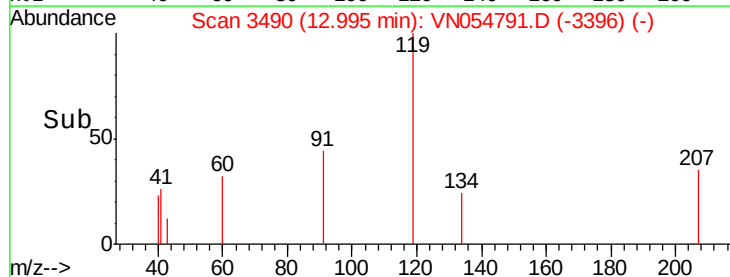
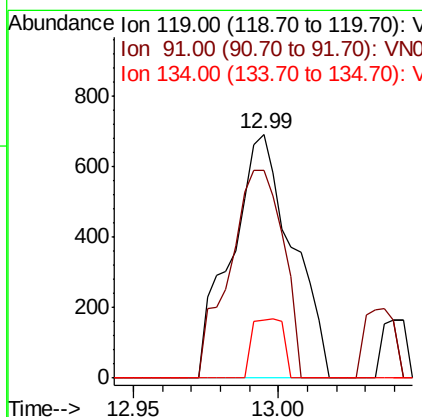
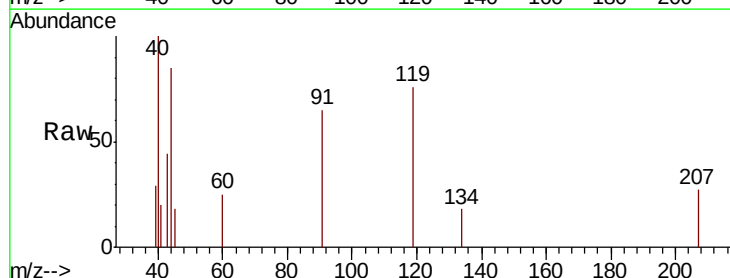
Instrument :
 MSVOA_N
 ClientSampleId :

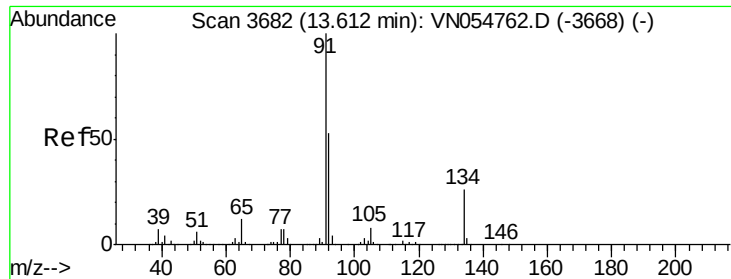
Tot Ion: 75 Resp: 158240
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.2 114.2#
 89 0.0 39.2 58.8#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN054791.D
 Acq: 30 Mar 2019 00:36

Tgt Ion: 119 Resp: 1005
 Ion Ratio Lower Upper
 119 100
 91 75.7 30.9 92.8
 134 12.6 13.2 39.6#





#89

n-Butylbenzene

Concen: 0.200 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN054791.D

Acq: 30 Mar 2019 00:36

Instrument :

MSVOA_N

ClientSampled :

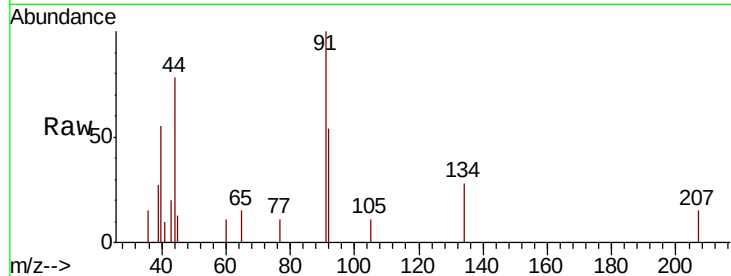
Tot Ion: 91 Resp: 2937

Ion Ratio Lower Upper

91 100

92 47.6 26.2 78.6

134 23.2 14.3 42.9

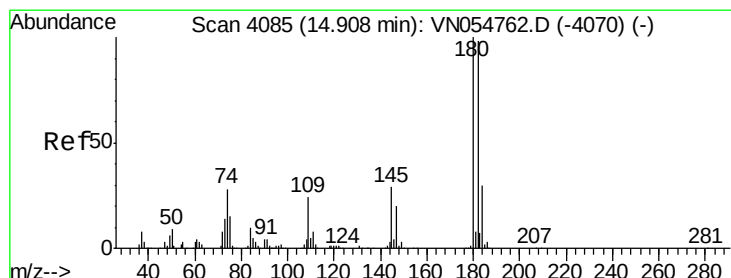
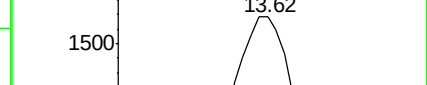
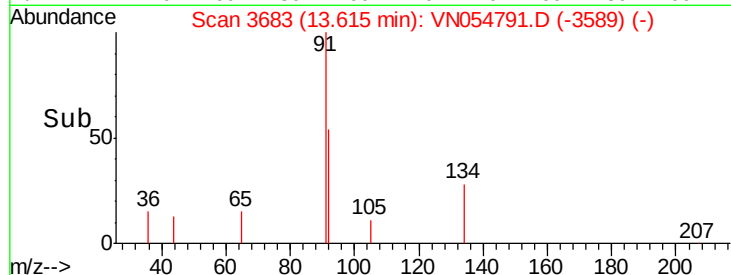


Abundance Ion 91.00 (90.70 to 91.70): VN054762.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN054762.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN054762.D (-3668) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.480 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054791.D

Acq: 30 Mar 2019 00:36

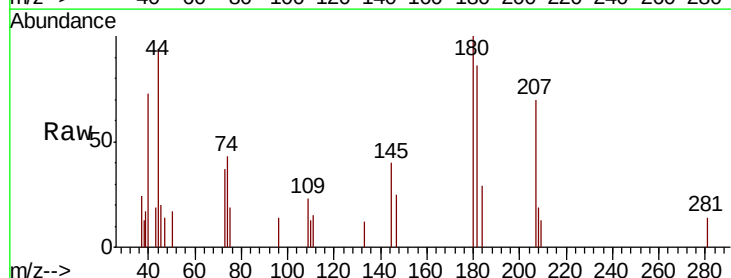
Tgt Ion: 180 Resp: 2162

Ion Ratio Lower Upper

180 100

182 94.3 48.0 144.2

145 34.2 14.2 42.8

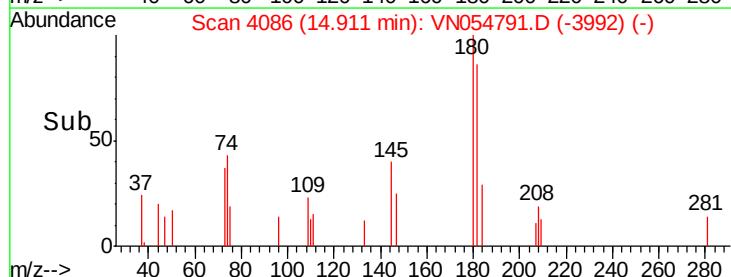


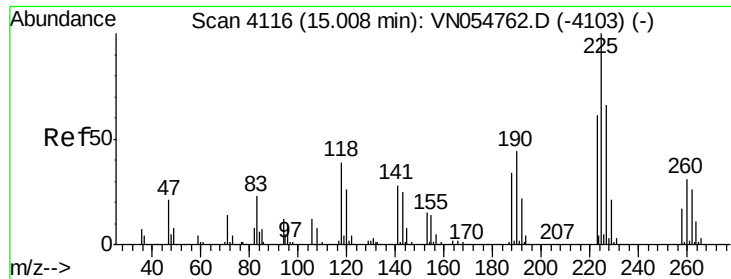
Abundance Ion 179.80 (179.50 to 180.50): VN054762.D (-4070) (-)

Ion 181.80 (181.50 to 182.50): VN054762.D (-4070) (-)

Ion 144.80 (144.50 to 145.50): VN054762.D (-4070) (-)

Time-->





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN054791.D

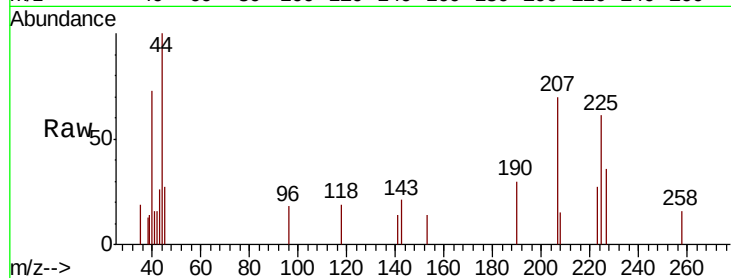
Acq: 30 Mar 2019 00:36

Instrument :

MSVOA_N

ClientSampled :

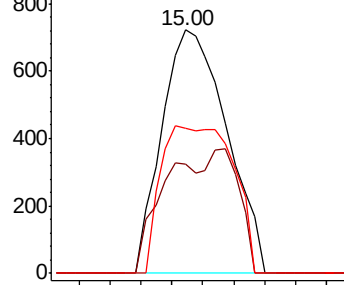
Tot Ion:225	Resp:	1053
Ion Ratio	Lower	Upper
225	100	
223	29.1	31.1 93.5#
227	67.3	31.9 95.9



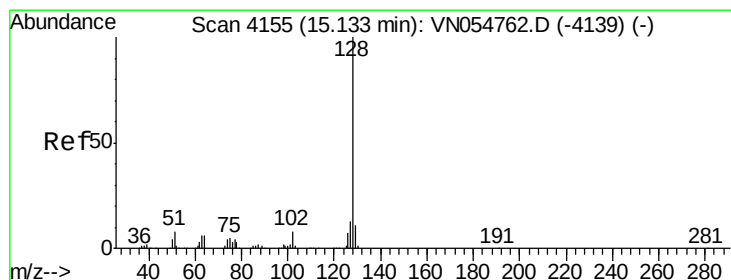
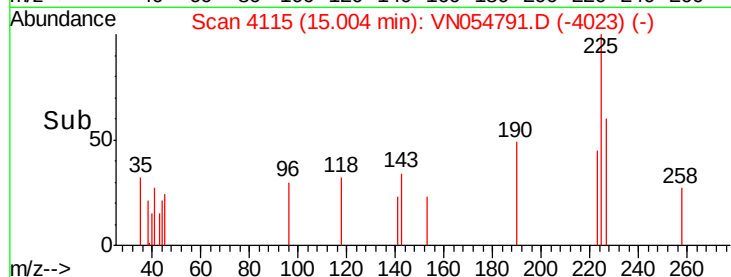
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 5.314 ug/l

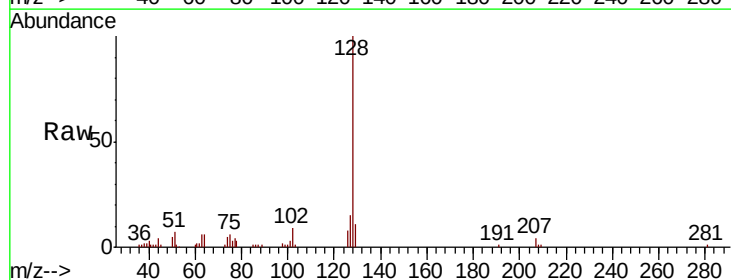
RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054791.D

Acq: 30 Mar 2019 00:36

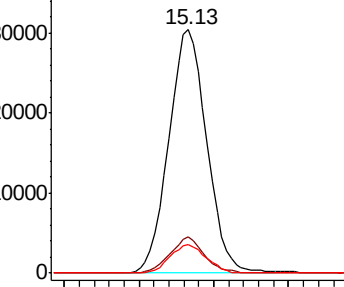
Tgt Ion:128	Resp:	53639
Ion Ratio	Lower	Upper
128	100	
127	13.3	10.1 15.1
129	10.9	8.7 13.1



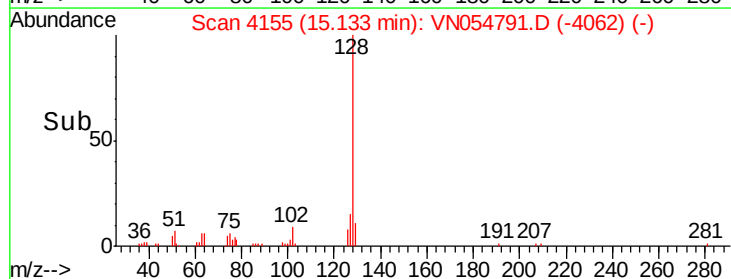
Abundance Ion 128.00 (127.70 to 128.70): V

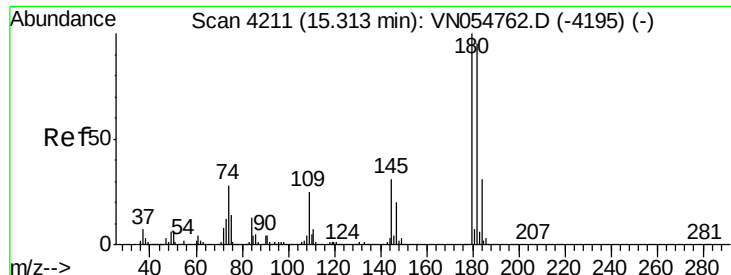
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 0.529 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN054791.D
 Acq: 30 Mar 2019 00:36

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.4	47.5	142.6
145	38.5	14.8	44.3

