

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031320\
 Data File : VN060493.D
 Acq On : 13 Mar 2020 11:40
 Operator : JC/MD
 Sample : L1902-01
 Misc : 4.56µ/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:26:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	161962	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	267151	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	248969	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	123857	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	104267	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
35) Dibromofluoromethane	7.56	113	75838	61.16	ug/l	0.00
Spiked Amount			Recovery	=	122.32%	
50) Toluene-d8	10.08	98	328595	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
62) 4-Bromofluorobenzene	12.40	95	126640	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	

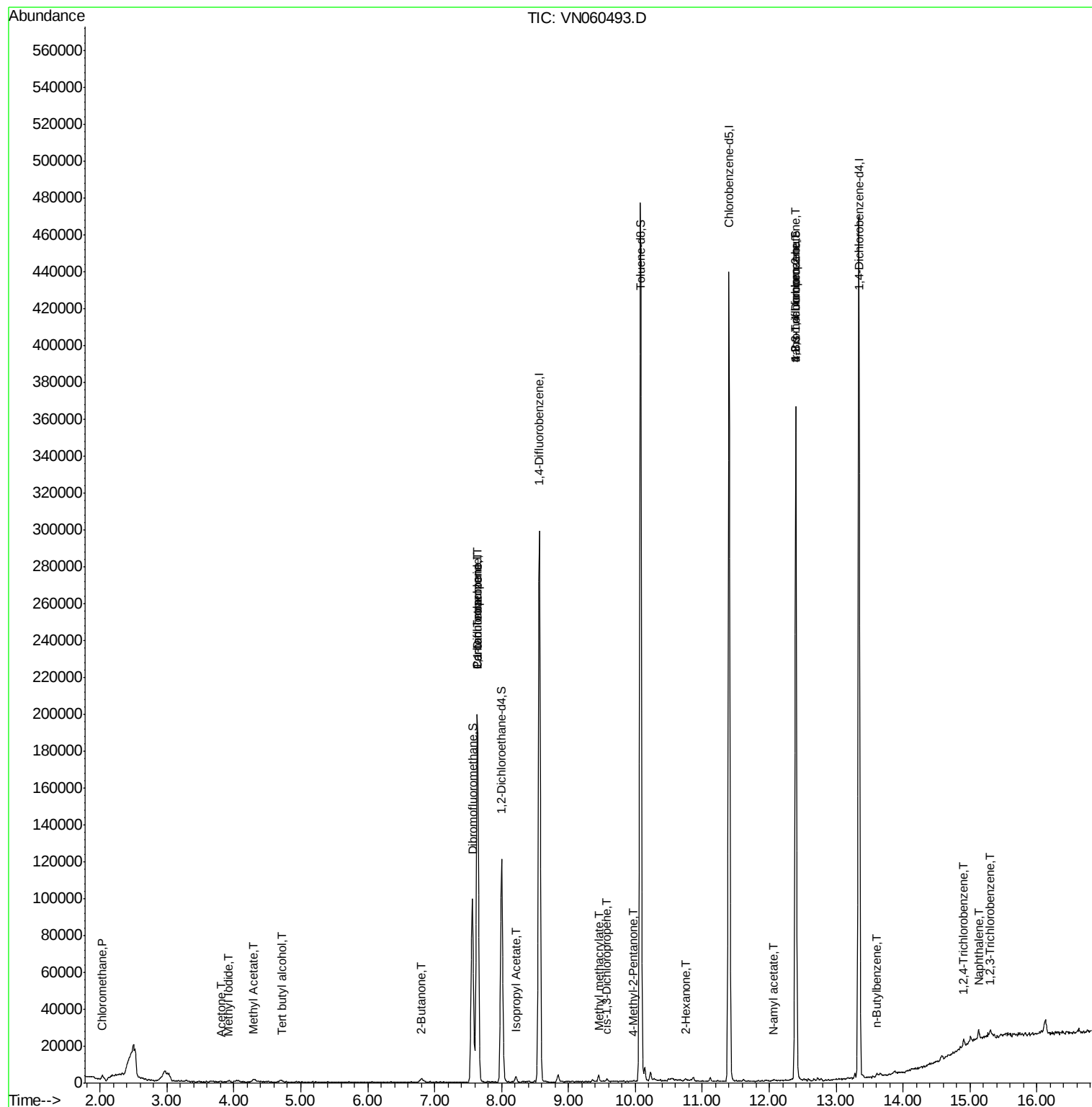
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2279	0.882	ug/l	93
5) Bromomethane	2.49	94	498	Below Cal		90
10) Methyl Iodide	3.91	142	1067	0.729	ug/l #	57
11) Tert butyl alcohol	4.71	59	955	3.095	ug/l #	73
16) Acetone	3.80	43	427	0.636	ug/l #	44
17) Carbon Disulfide	4.02	76	708	Below Cal	#	75
18) Methyl Acetate	4.29	43	3975	1.775	ug/l #	74
25) 2-Butanone	6.80	43	1168	1.078	ug/l	94
31) Cyclohexane	7.63	56	3683	Below Cal	#	14
36) 1,1-Dichloropropene	7.64	75	12997	5.105	ug/l #	48
38) Carbon Tetrachloride	7.64	117	15624	6.303	ug/l #	16
43) Isopropyl Acetate	8.22	43	1343	0.318	ug/l #	55
48) Methyl methacrylate	9.45	41	1004	0.522	ug/l #	38
51) 4-Methyl-2-Pentanone	9.97	43	622	0.260	ug/l #	36
54) cis-1,3-Dichloropropene	9.57	75	1620	0.499	ug/l #	31
59) 2-Hexanone	10.75	43	953	0.542	ug/l #	47
74) N-amyl acetate	12.06	43	914	0.228	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	63040	23.198	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63040	64.038	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	721	Below Cal		84
88) 1,4-Dichlorobenzene	13.28	146	721	Below Cal		84
89) n-Butylbenzene	13.61	91	1620	0.213	ug/l	89
93) 1,2,4-Trichlorobenzene	14.91	180	1244	0.584	ug/l	92
94) Hexachlorobutadiene	15.01	225	647	Below Cal		85
95) Naphthalene	15.13	128	4263	0.308	ug/l #	89
96) 1,2,3-Trichlorobenzene	15.31	180	1283	0.363	ug/l	98

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

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.01 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

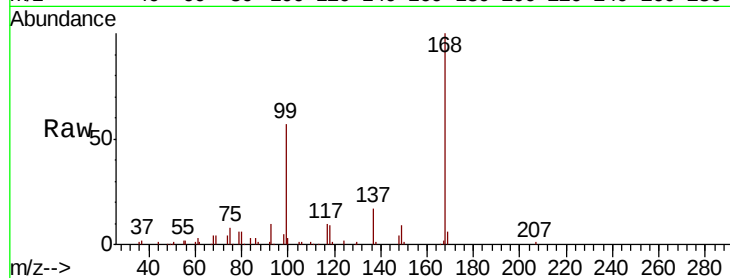
ClientSampled :

Tot Ion:168 Resp: 161962

Ion Ratio Lower Upper

168 100

99 56.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

60000

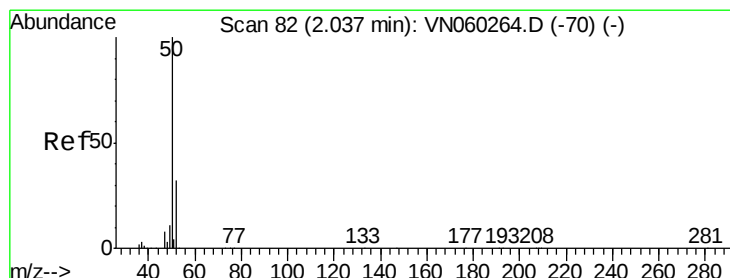
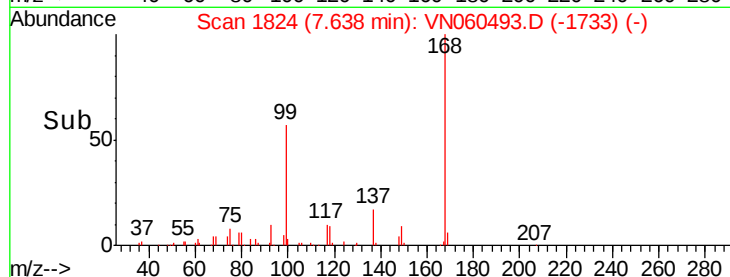
40000

20000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.882 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN060493.D

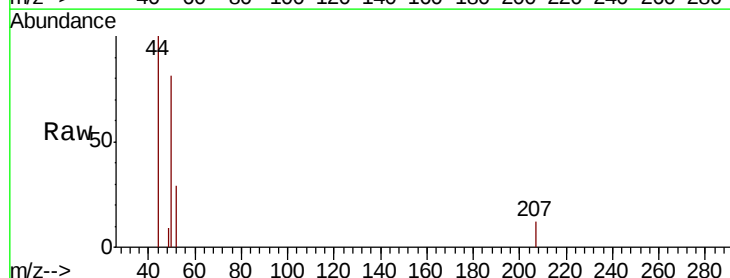
Acq: 13 Mar 2020 11:40

Tgt Ion: 50 Resp: 2279

Ion Ratio Lower Upper

50 100

52 35.9 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

1500

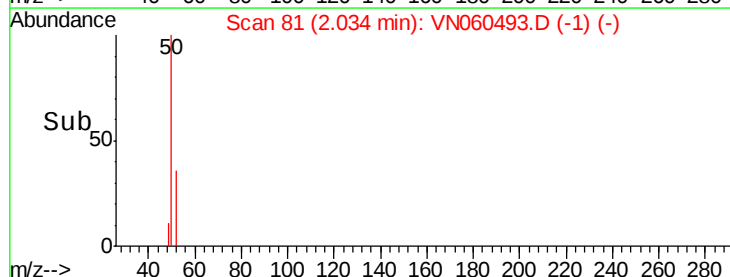
1000

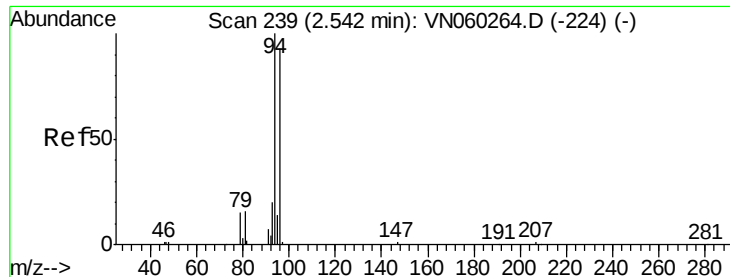
500

0

2.00 2.05

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.49 min Scan# 224

Delta R.T. -0.05 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

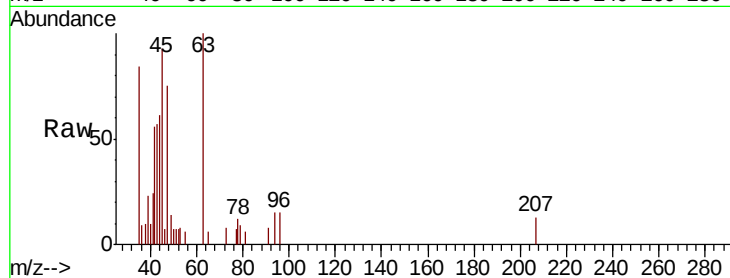
ClientSampleId :

Tot Ion: 94 Resp: 498

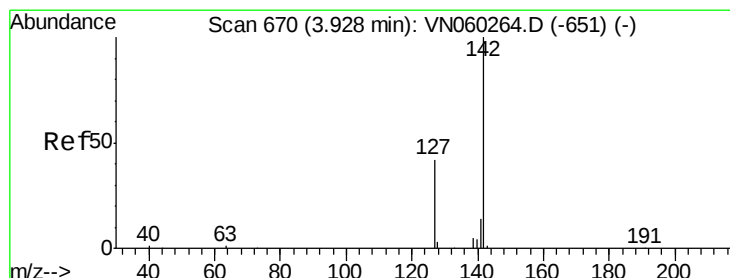
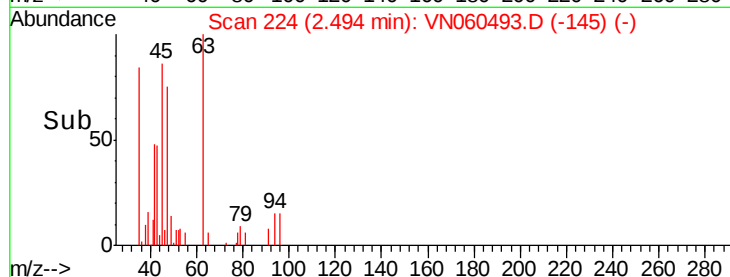
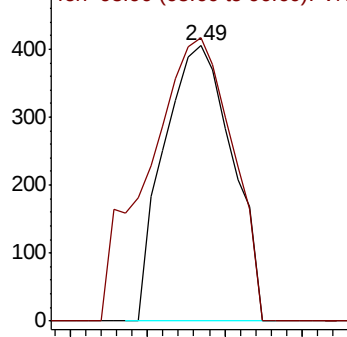
Ion Ratio Lower Upper

94 100

96 103.0 74.3 111.5



Abundance Ion 93.90 (93.60 to 94.60): VN060493.D (-224) (-)



#10

Methyl Iodide

Concen: 0.729 ug/l

RT: 3.91 min Scan# 666

Delta R.T. -0.01 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

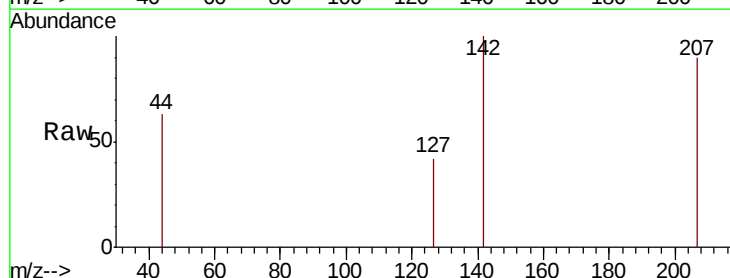
Tgt Ion: 142 Resp: 1067

Ion Ratio Lower Upper

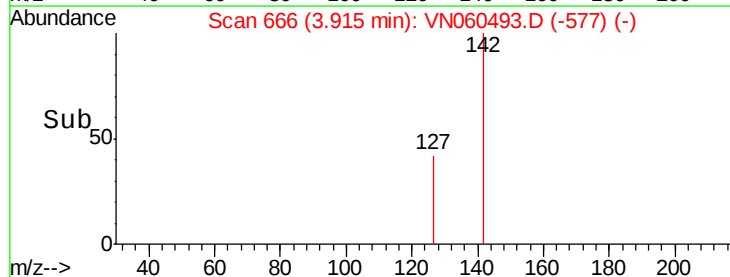
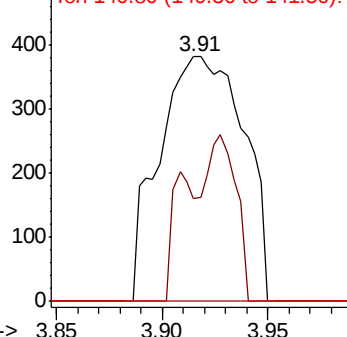
142 100

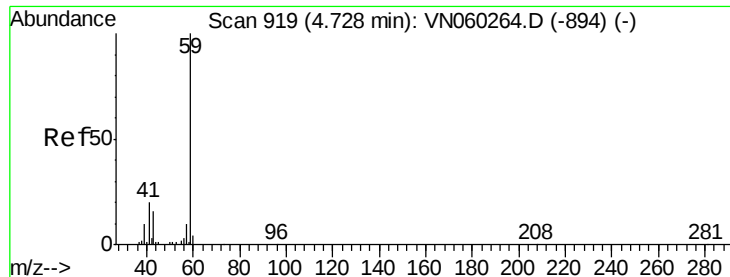
127 13.0 33.8 50.6#

141 0.0 11.1 16.7#



Abundance Ion 141.80 (141.50 to 142.50): VN060493.D (-651) (-)

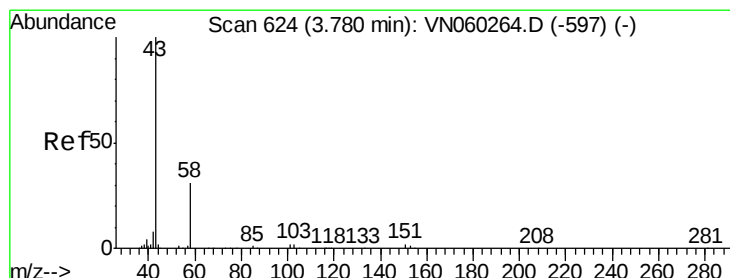
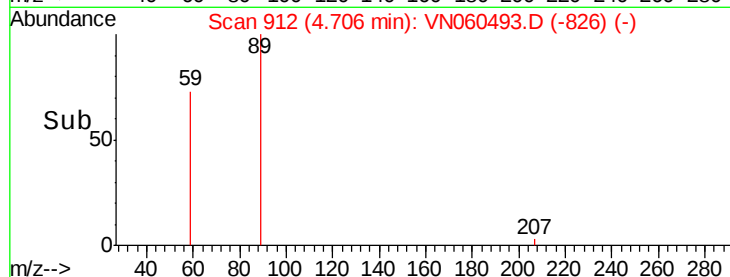
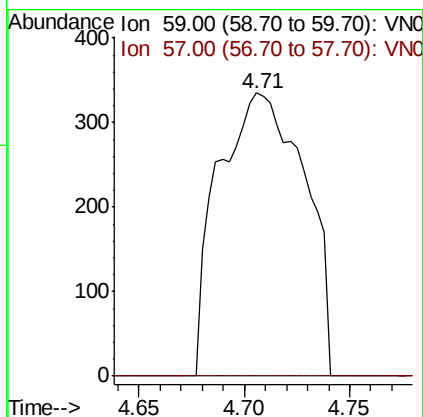
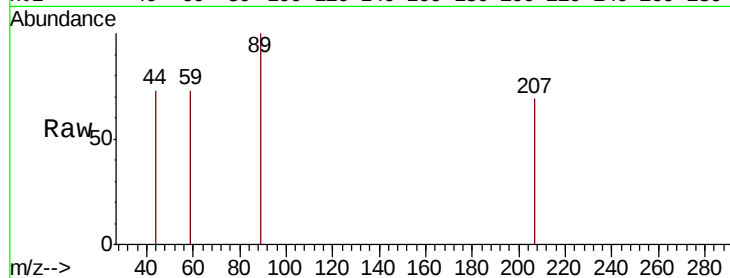




#11
Tert butyl alcohol
Concen: 3.095 ug/l
RT: 4.71 min Scan# 912
Delta R.T. -0.02 min
Lab File: VN060493.D
Acq: 13 Mar 2020 11:40

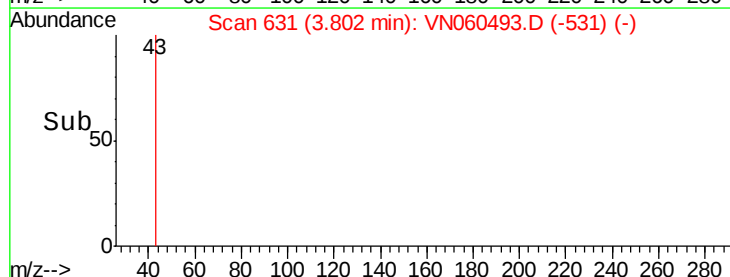
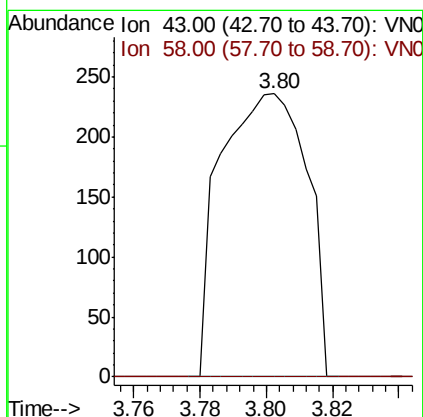
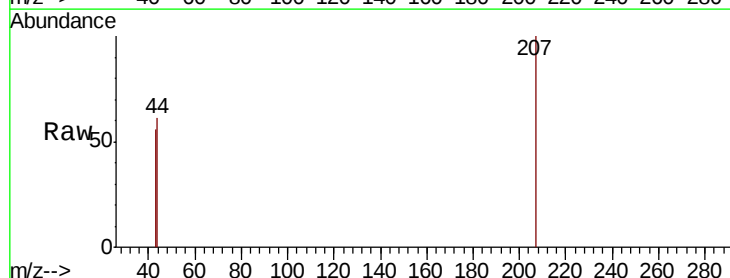
Instrument :
MSVOA_N
ClientSampleId :

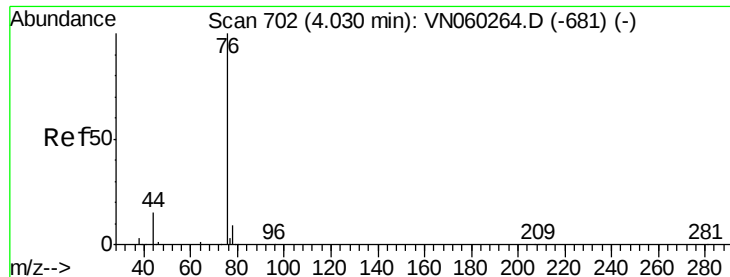
Tot Ion: 59 Resp: 955
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 0.636 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.02 min
Lab File: VN060493.D
Acq: 13 Mar 2020 11:40

Tgt Ion: 43 Resp: 427
Ion Ratio Lower Upper
43 100
58 0.0 24.6 36.8#





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 698

Delta R.T. -0.01 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

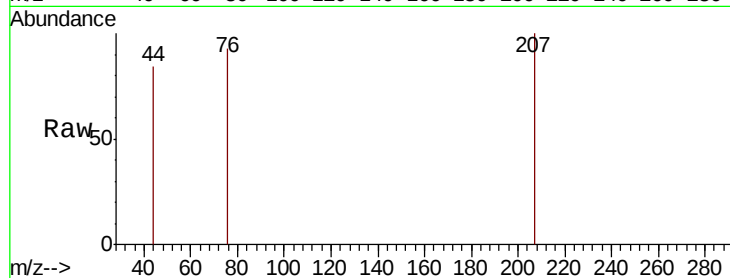
ClientSampled :

Tot Ion: 76 Resp: 708

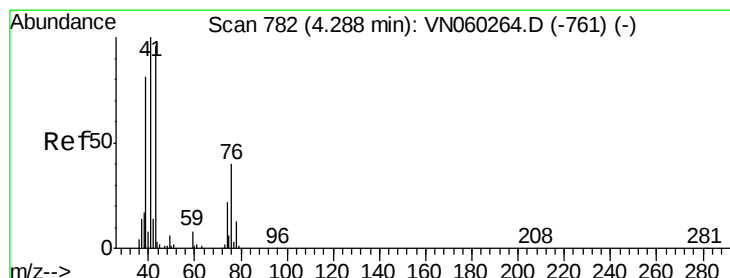
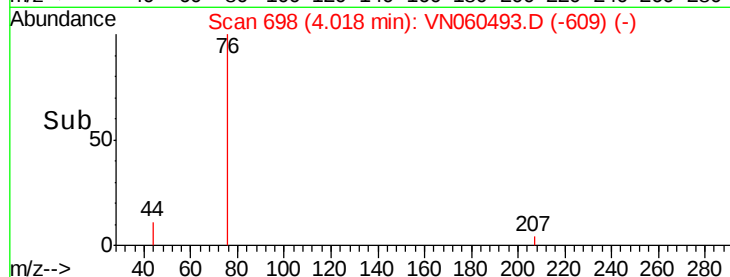
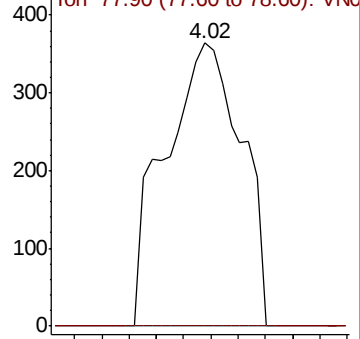
Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0



#18

Methyl Acetate

Concen: 1.775 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN060493.D

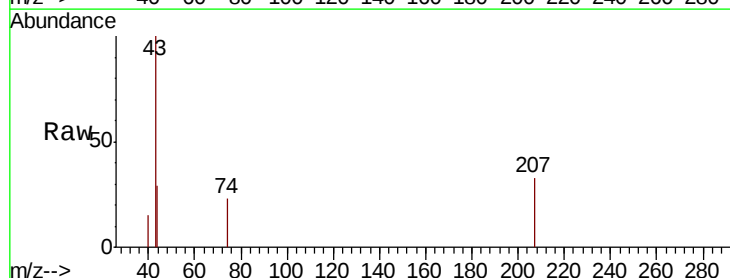
Acq: 13 Mar 2020 11:40

Tgt Ion: 43 Resp: 3975

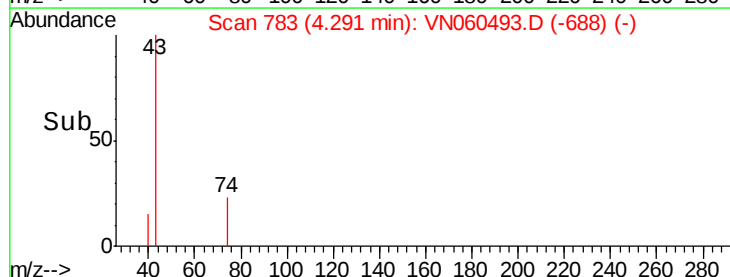
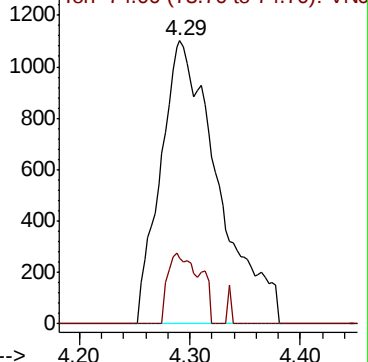
Ion Ratio Lower Upper

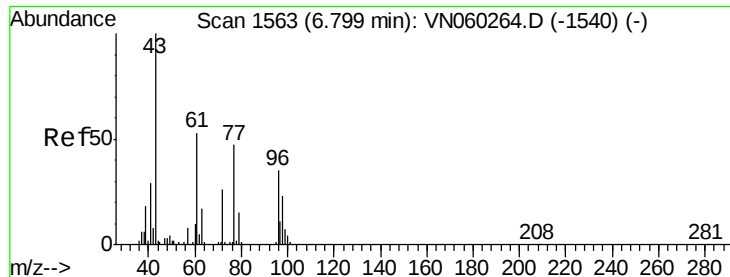
43 100

74 11.0 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

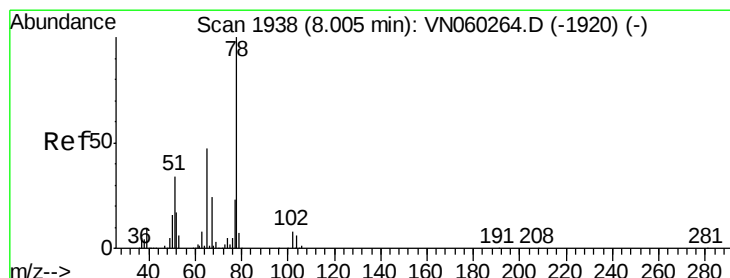
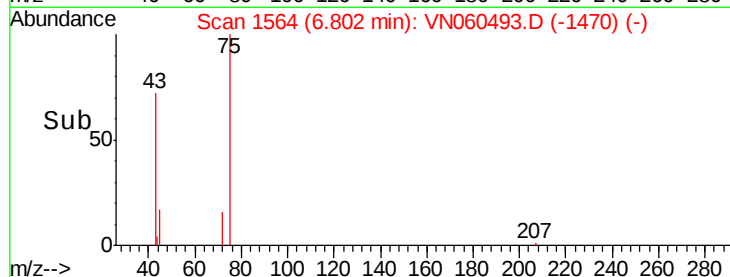
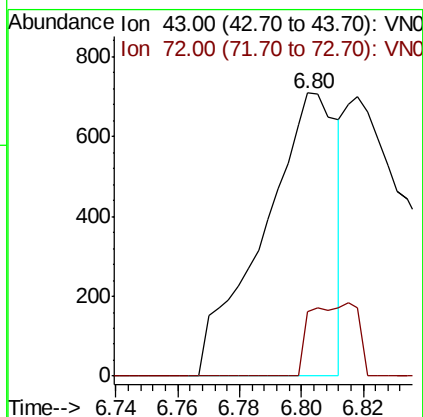
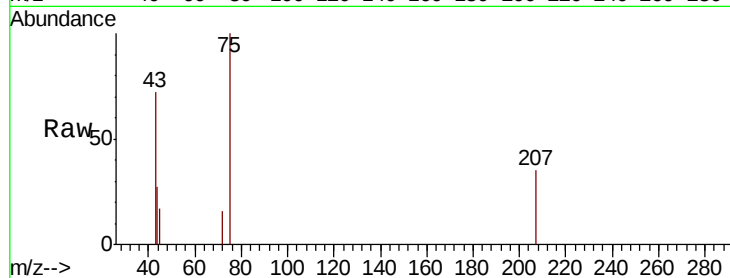




#25
2-Butanone
Concen: 1.078 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VN060493.D
Acq: 13 Mar 2020 11:40

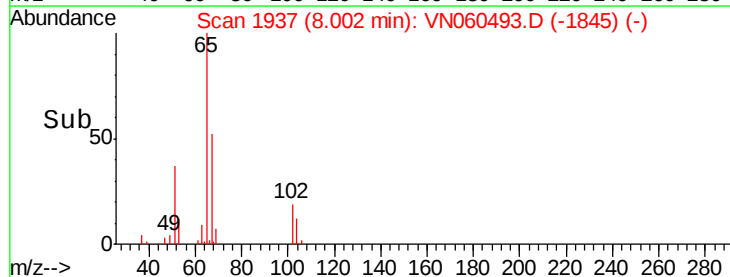
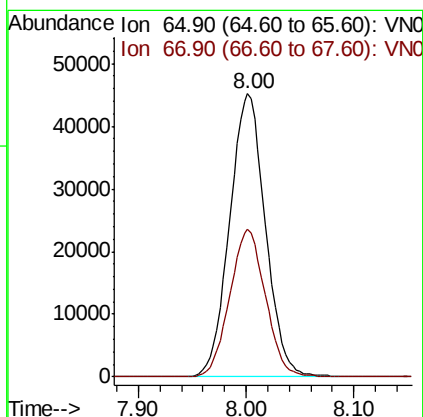
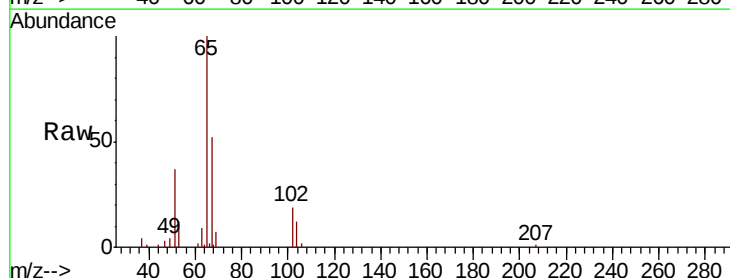
Instrument :
MSVOA_N
ClientSampleId :

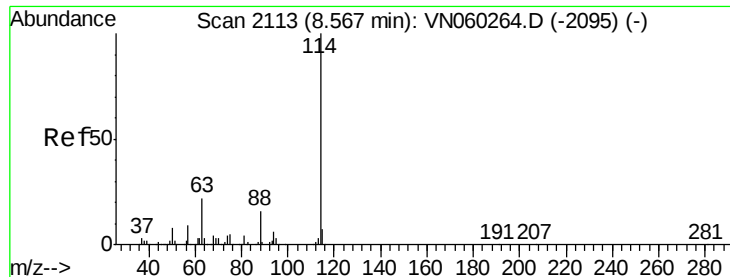
Tot Ion: 43 Resp: 1168
Ion Ratio Lower Upper
43 100
72 22.9 20.9 31.3



#33
1,2-Dichloroethane-d4
Concen: 50.177 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060493.D
Acq: 13 Mar 2020 11:40

Tgt Ion: 65 Resp: 104267
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

ClientSampleId :

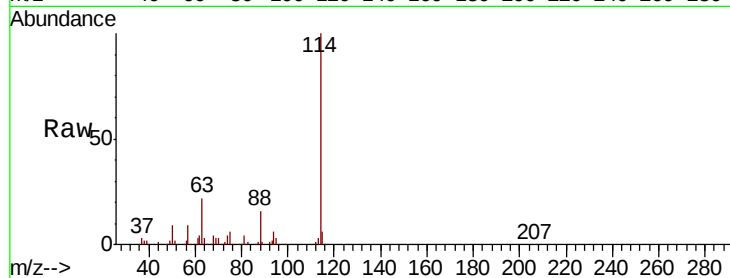
Tot Ion:114 Resp: 267151

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.2

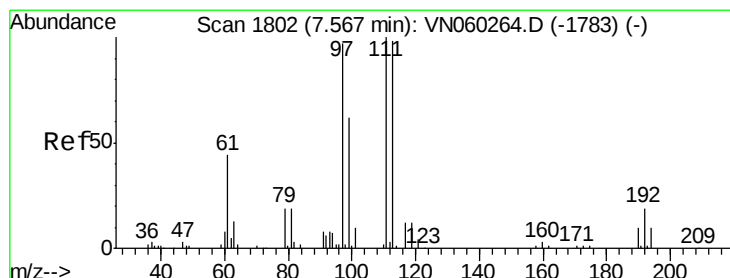
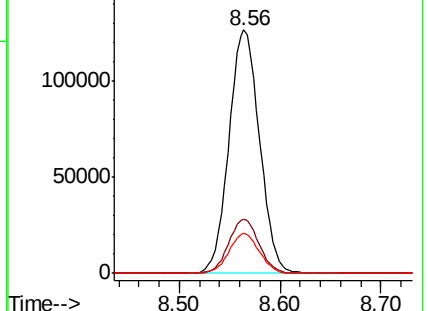
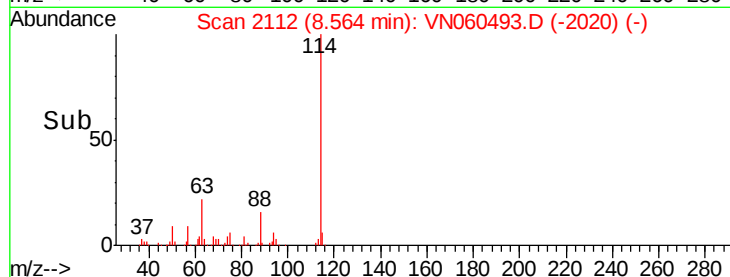
88 16.3 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 61.158 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

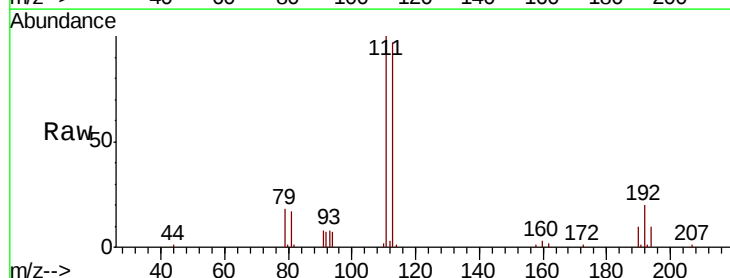
Tgt Ion:113 Resp: 75838

Ion Ratio Lower Upper

113 100

111 105.0 82.4 123.6

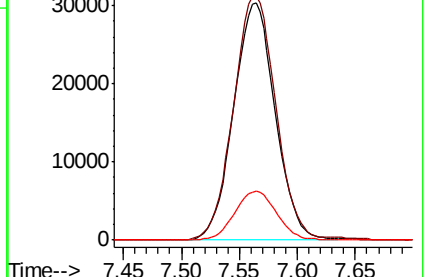
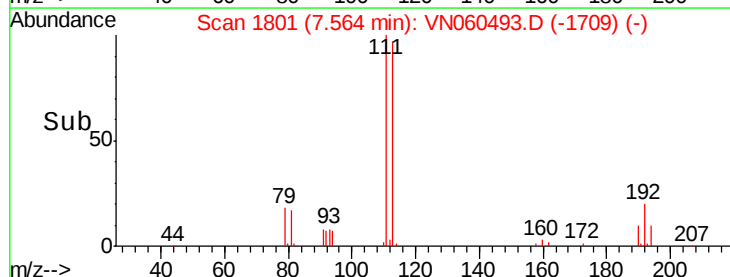
192 20.7 16.2 24.2

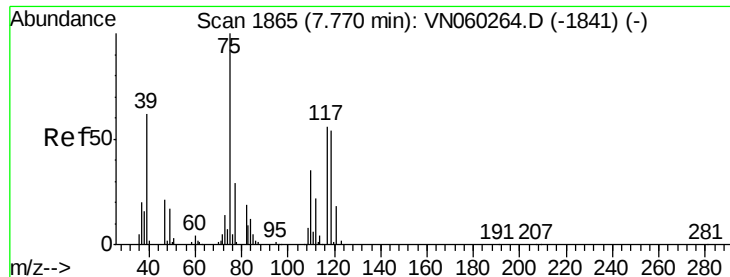


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.105 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.13 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :
MSVOA_N
ClientSampled :

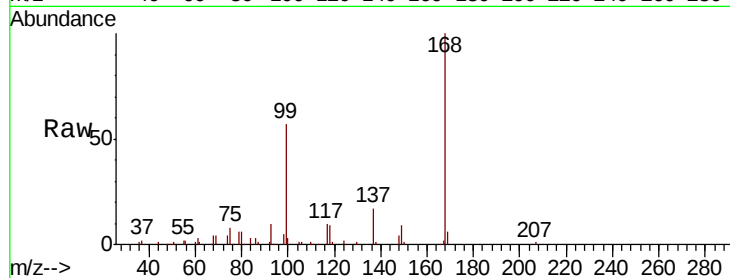
Tot Ion: 75 Resp: 12997

Ion Ratio Lower Upper

75 100

110 6.7 17.3 52.0#

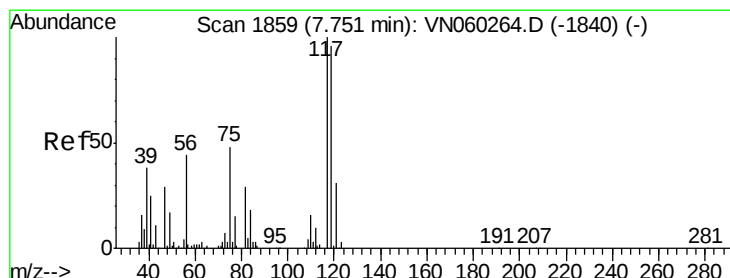
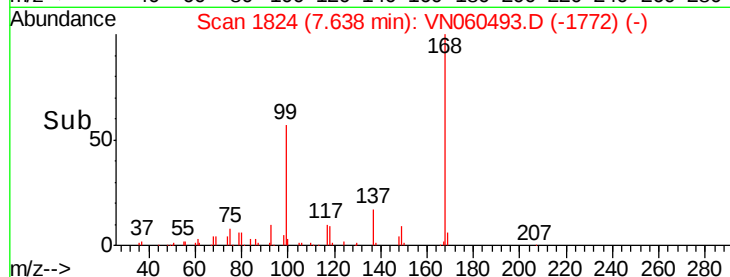
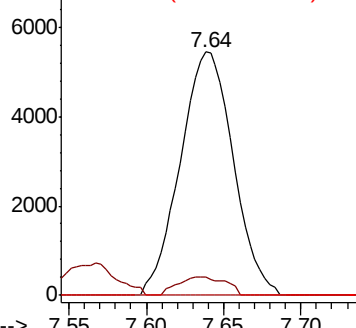
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-1841) (-)

Ion 109.90 (109.60 to 110.60): VN060264.D (-1841) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-1841) (-)



#38

Carbon Tetrachloride

Concen: 6.303 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

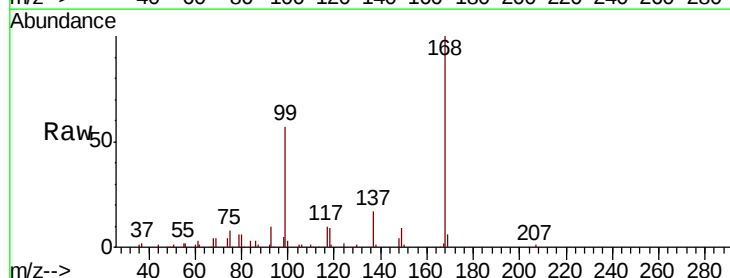
Tgt Ion: 117 Resp: 15624

Ion Ratio Lower Upper

117 100

119 5.3 76.7 115.1#

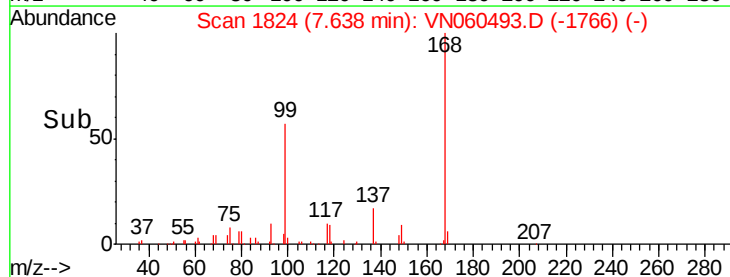
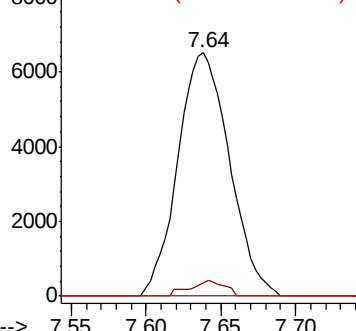
121 0.0 24.5 36.7#

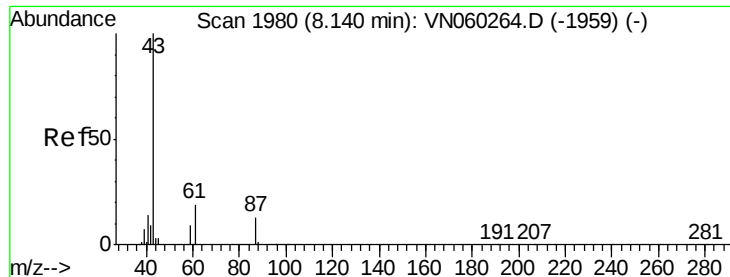


Abundance Ion 116.80 (116.50 to 117.50): VN060264.D (-1840) (-)

Ion 118.80 (118.50 to 119.50): VN060264.D (-1840) (-)

Ion 120.80 (120.50 to 121.50): VN060264.D (-1840) (-)





#43

Isopropyl Acetate

Concen: 0.318 ug/l

RT: 8.22 min Scan# 2004

Delta R.T. 0.08 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

ClientSampleId :

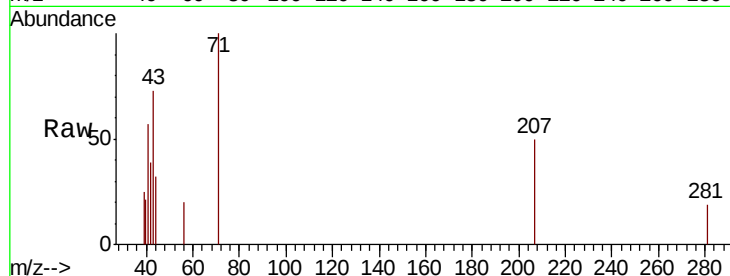
Tot Ion: 43 Resp: 1343

Ion Ratio Lower Upper

43 100

61 0.0 20.9 31.3#

87 0.0 10.6 16.0#



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060264.D (-1959) (-)

8.22

600

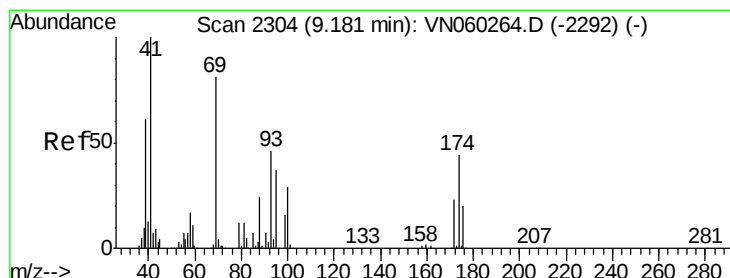
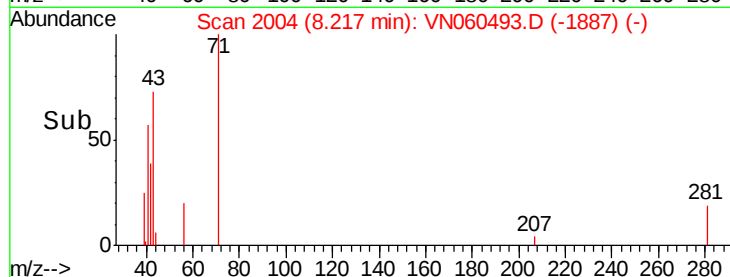
400

200

0

8.15 8.20 8.25

Time-->



#48

Methyl methacrylate

Concen: 0.522 ug/l

RT: 9.45 min Scan# 2388

Delta R.T. 0.27 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

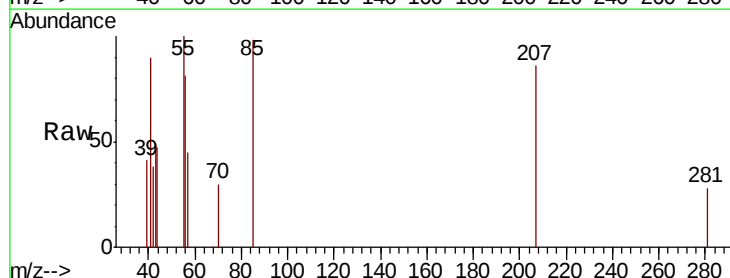
Tgt Ion: 41 Resp: 1004

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 46.5 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VN060264.D (-2292) (-)

Ion 69.00 (68.70 to 69.70): VN060264.D (-2292) (-)

Ion 39.00 (38.70 to 39.70): VN060264.D (-2292) (-)

9.45

600

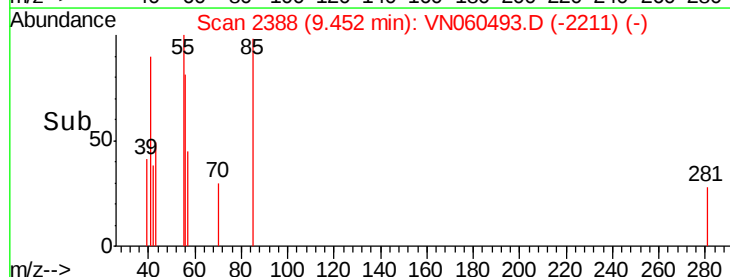
400

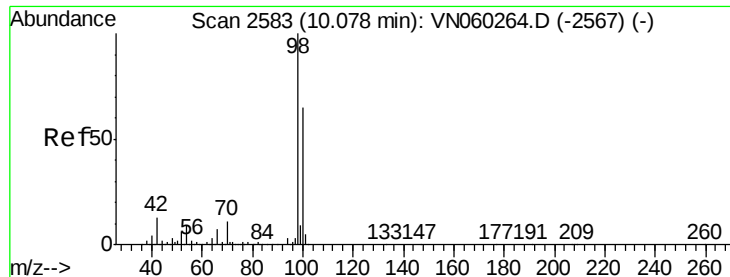
200

0

9.40 9.42 9.44 9.46 9.48

Time-->





#50

Toluene-d8

Concen: 52.358 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

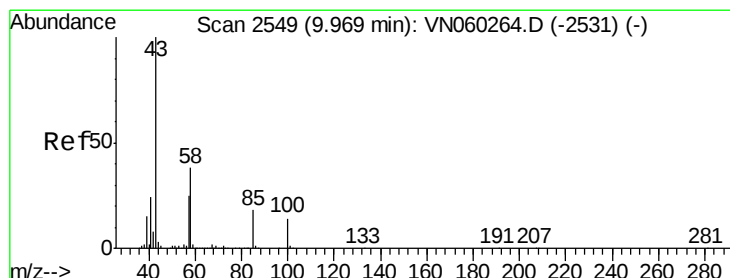
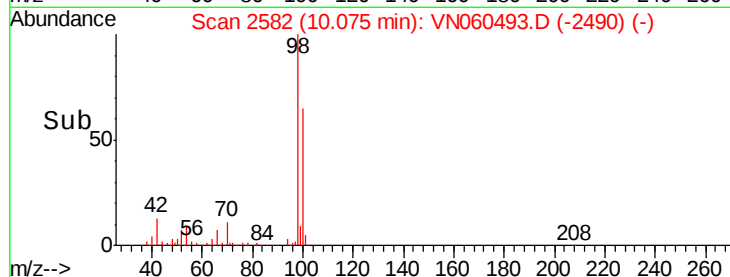
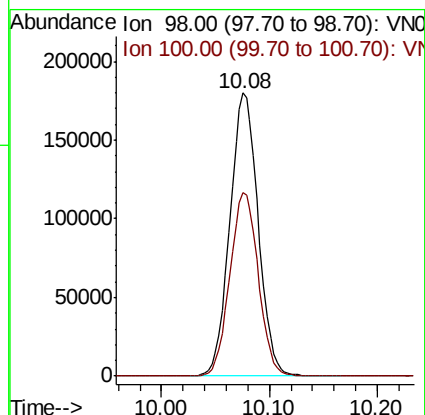
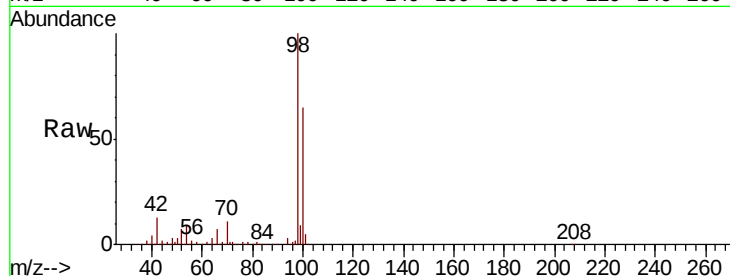
ClientSampled :

Tot Ion: 98 Resp: 328595

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 0.260 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060493.D

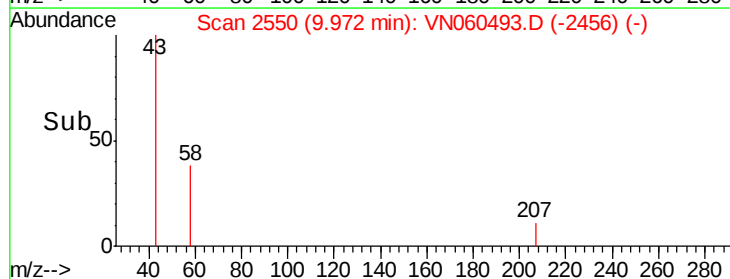
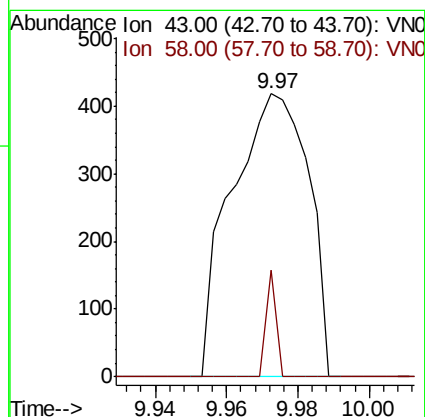
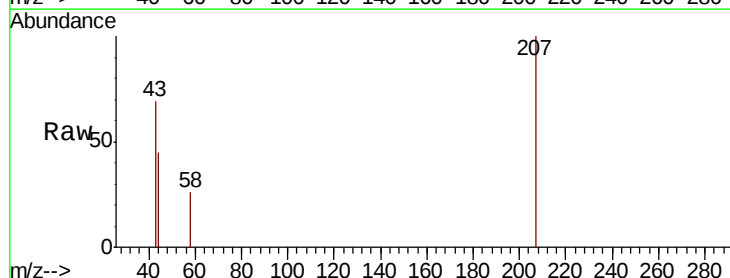
Acq: 13 Mar 2020 11:40

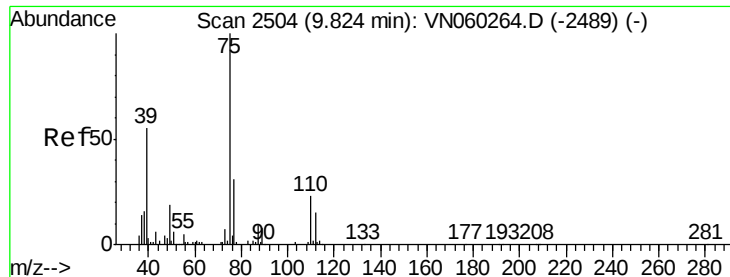
Tgt Ion: 43 Resp: 622

Ion Ratio Lower Upper

43 100

58 0.0 30.9 46.3#





#54

cis-1,3-Dichloropropene

Concen: 0.499 ug/l

RT: 9.57 min Scan# 2426

Delta R.T. -0.25 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

ClientSampled :

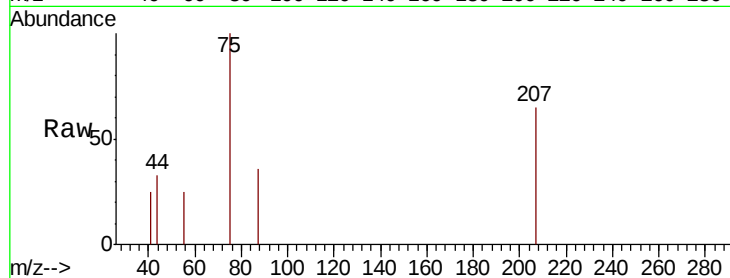
Tot Ion: 75 Resp: 1620

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

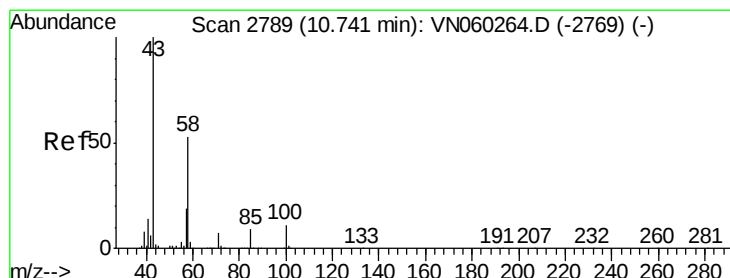
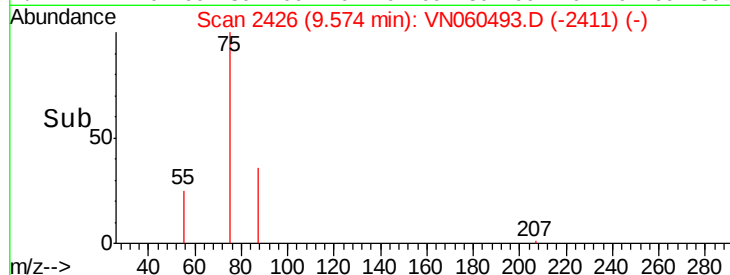
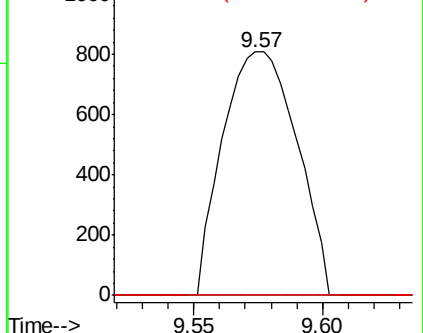
39 0.0 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 0.542 ug/l

RT: 10.75 min Scan# 2791

Delta R.T. 0.01 min

Lab File: VN060493.D

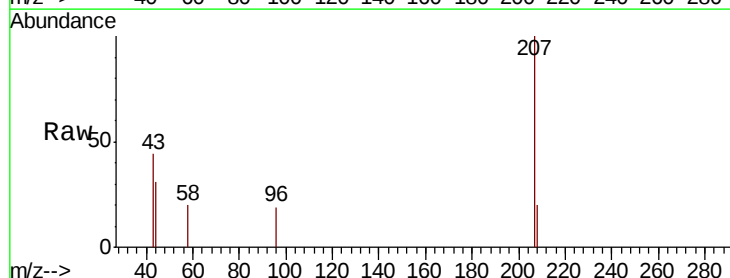
Acq: 13 Mar 2020 11:40

Tgt Ion: 43 Resp: 953

Ion Ratio Lower Upper

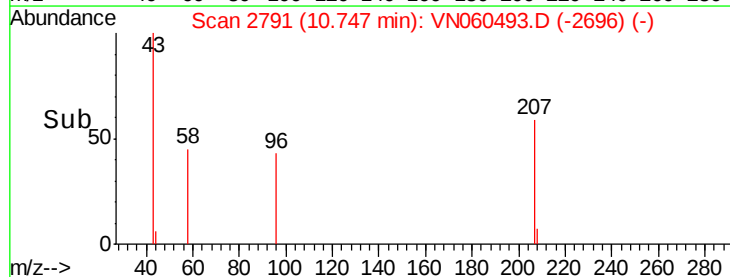
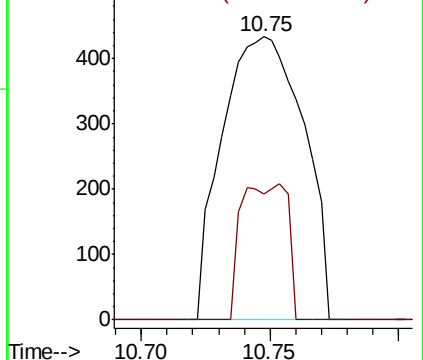
43 100

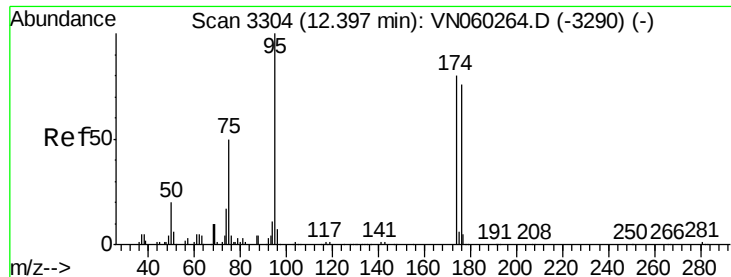
58 15.4 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

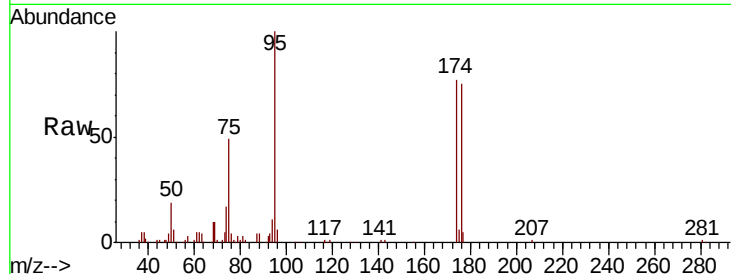




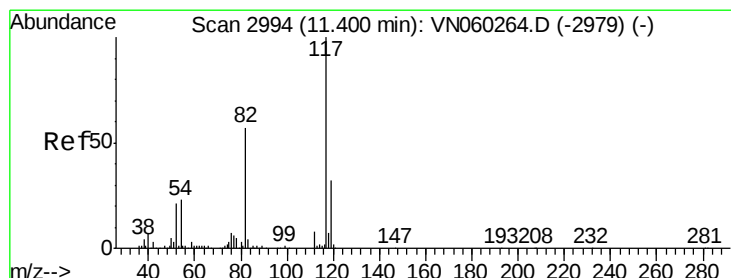
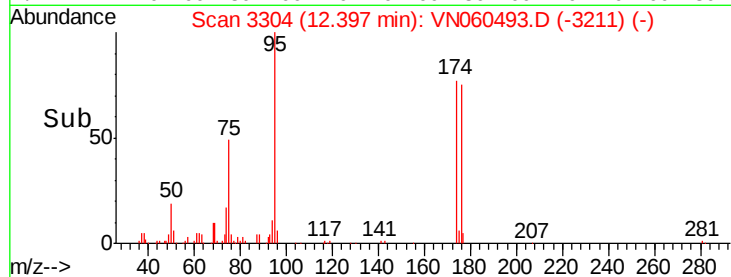
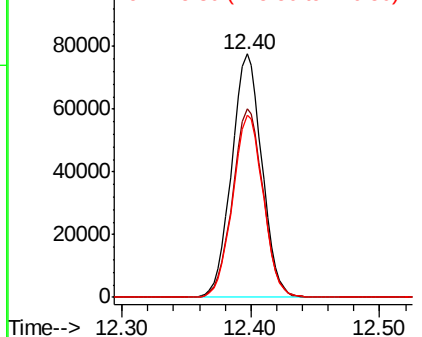
#62
4-Bromofluorobenzene
Concen: 53.231 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060493.D
Acq: 13 Mar 2020 11:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 126640
Ion Ratio Lower Upper
95 100
174 78.2 0.0 159.2
176 75.4 0.0 153.8

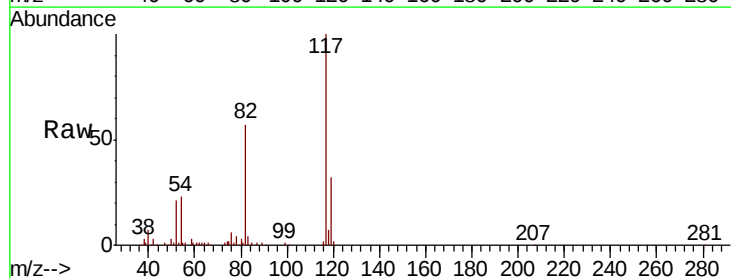


Abundance Ion 94.90 (94.60 to 95.60): VN060264.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN060264.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN060264.D (-3290) (-)

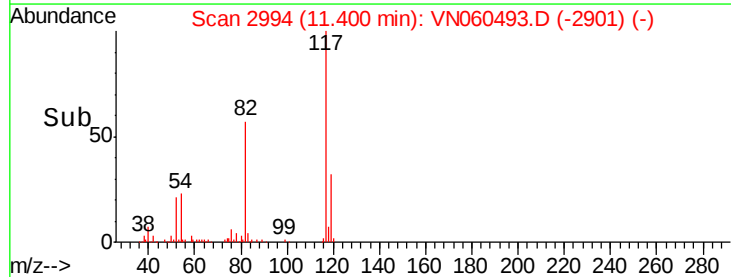
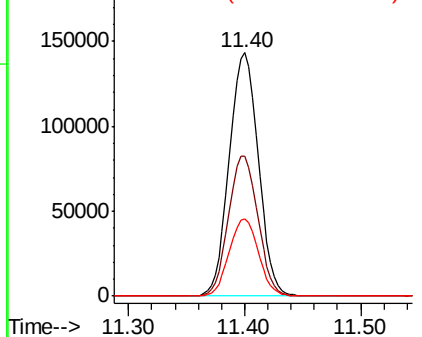


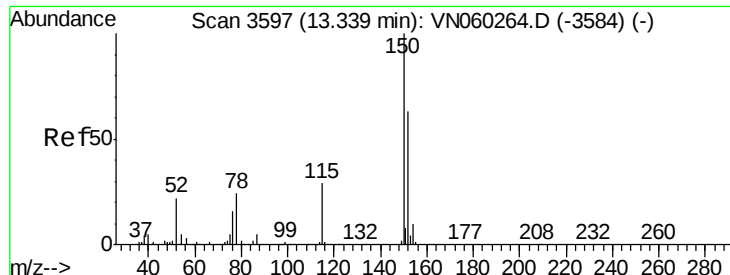
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060493.D
Acq: 13 Mar 2020 11:40

Tgt Ion: 117 Resp: 248969
Ion Ratio Lower Upper
117 100
82 57.4 45.8 68.6
119 32.0 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VN060264.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN060264.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN060264.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

ClientSampleId :

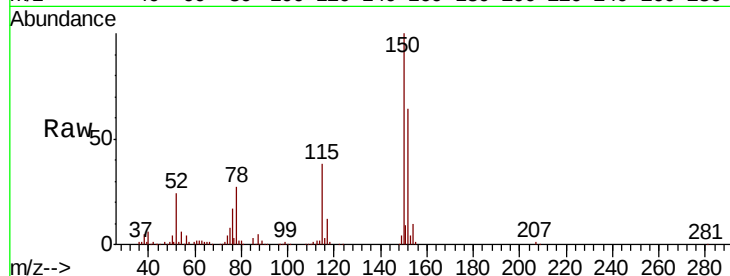
Tot Ion:152 Resp: 123857

Ion Ratio Lower Upper

152 100

115 60.5 30.0 90.0

150 157.4 0.0 349.6

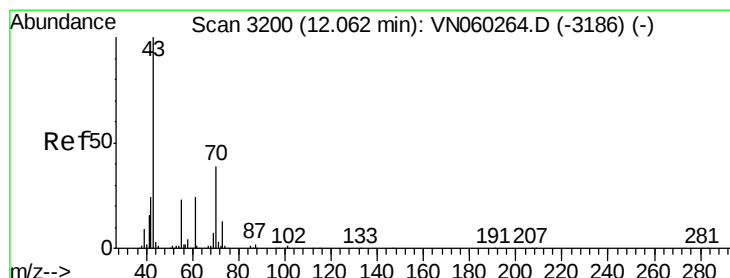
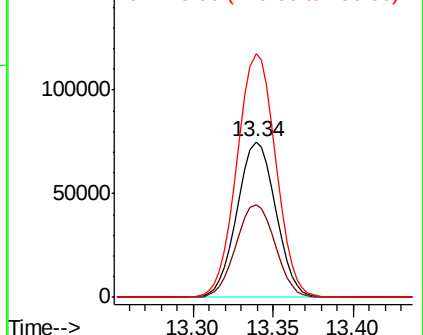
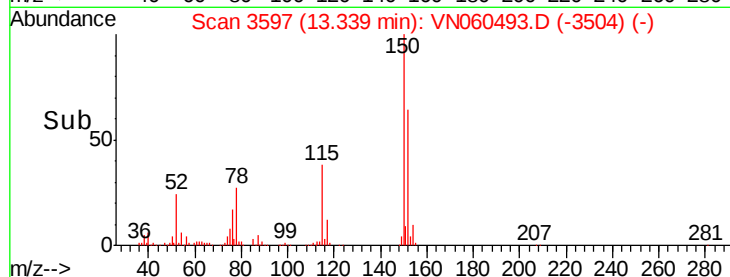


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.228 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. 0.00 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Tgt Ion: 43 Resp: 914

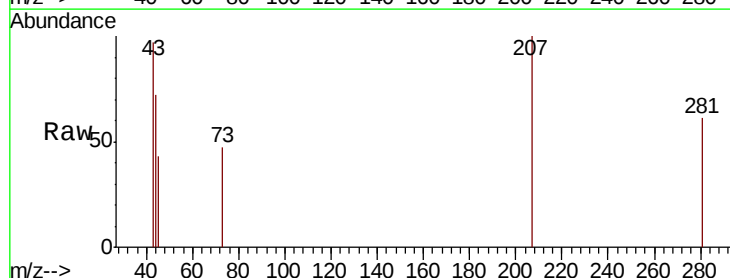
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#



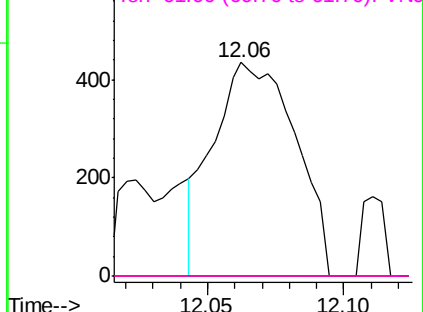
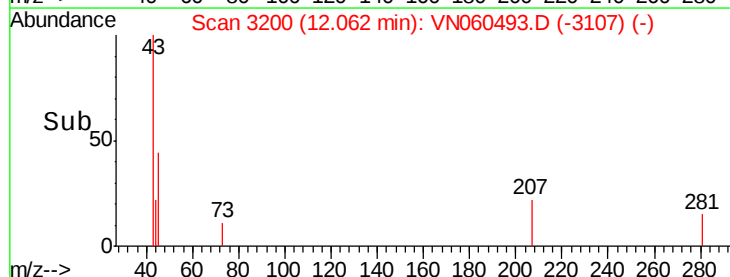
Abundance

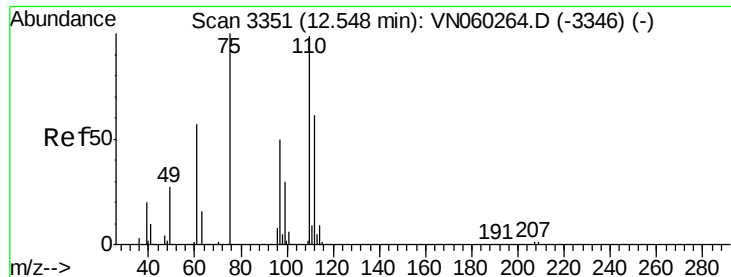
Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#76

1,2,3-Trichloropropane

Concen: 23.198 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

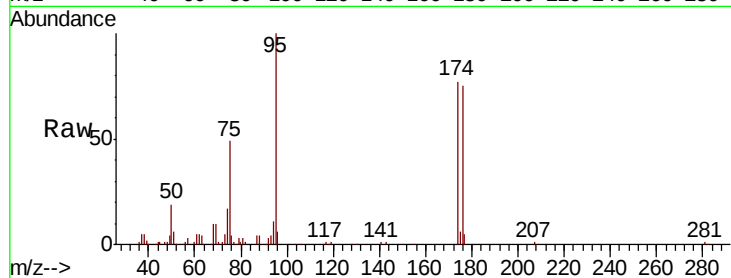
ClientSampled :

Tot Ion: 75 Resp: 63040

Ion Ratio Lower Upper

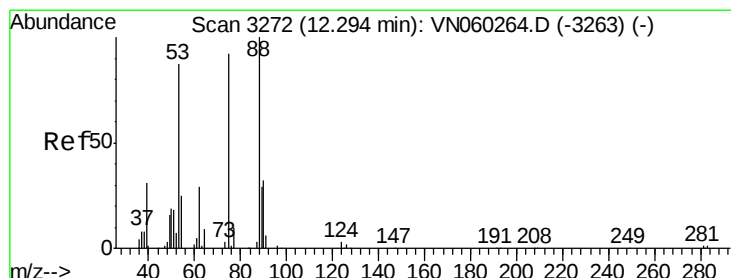
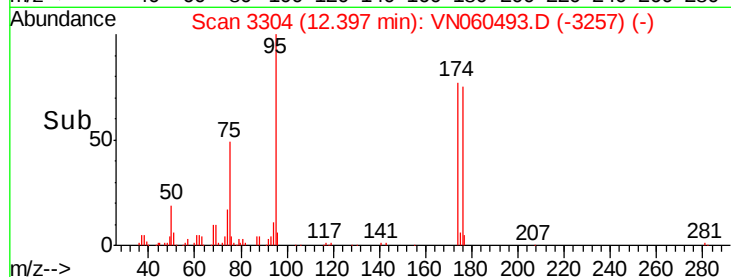
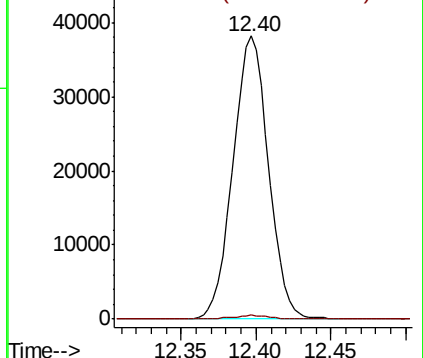
75 100

77 1.3 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: 64.038 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

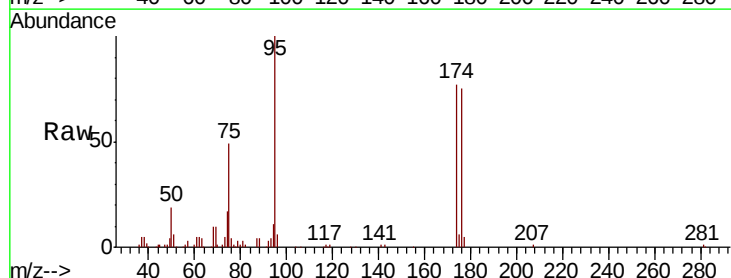
Tgt Ion: 75 Resp: 63040

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

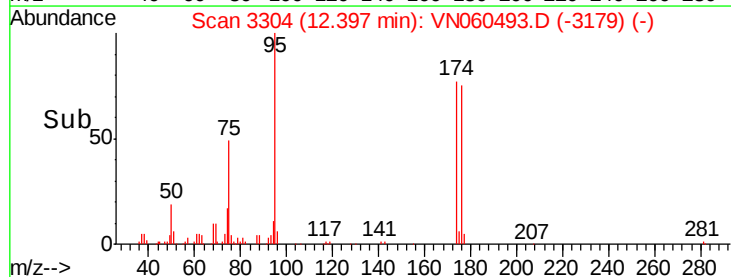
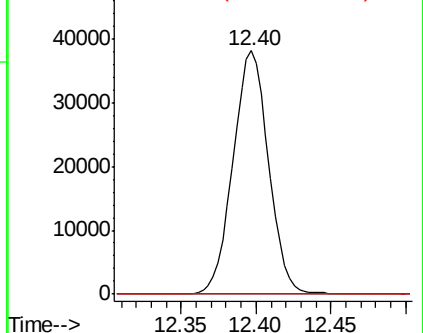
89 0.0 57.1 85.7#

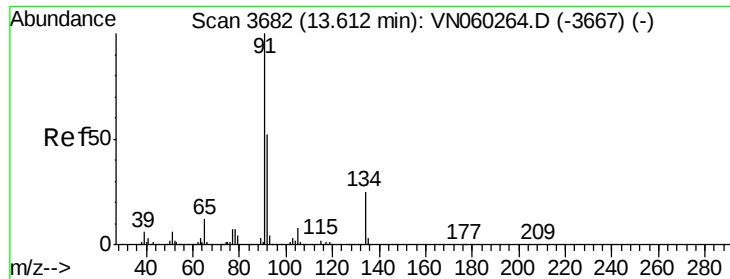


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

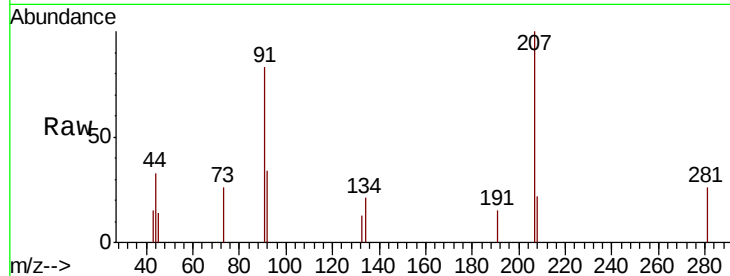




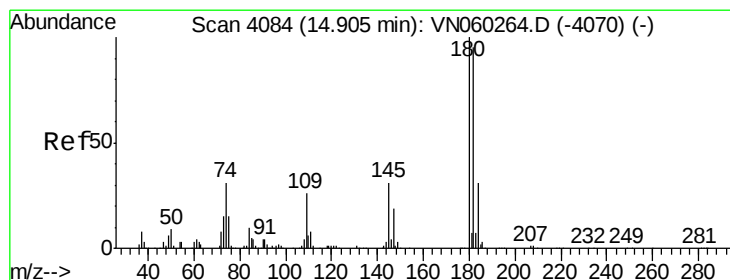
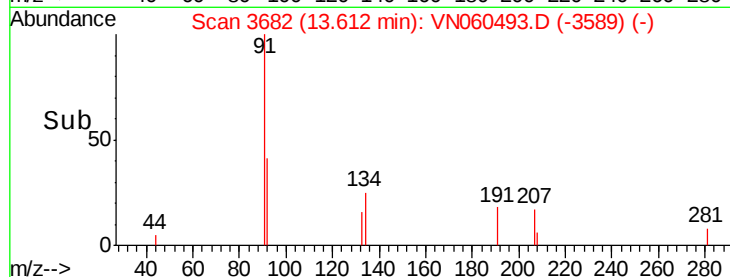
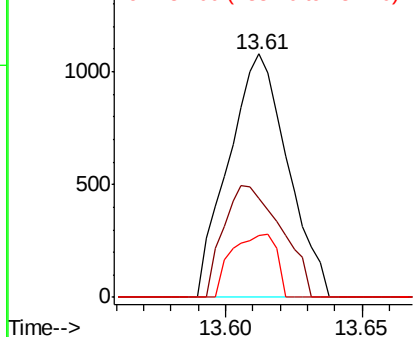
#89
n-Butylbenzene
Concen: 0.213 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN060493.D
Acq: 13 Mar 2020 11:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 91 Resp: 1620
Ion Ratio Lower Upper
91 100
92 44.9 26.0 78.0
134 19.7 12.7 38.1

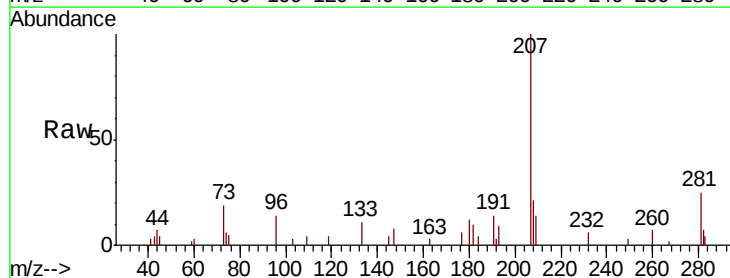


Abundance Ion 91.00 (90.70 to 91.70): VN060264.D (-3667) (-)
Ion 92.00 (91.70 to 92.70): VN060264.D (-3667) (-)
Ion 134.00 (133.70 to 134.70): VN060264.D (-3667) (-)

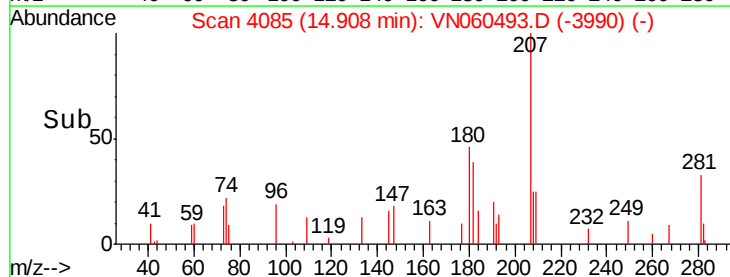
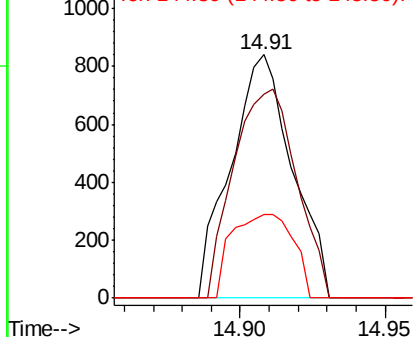


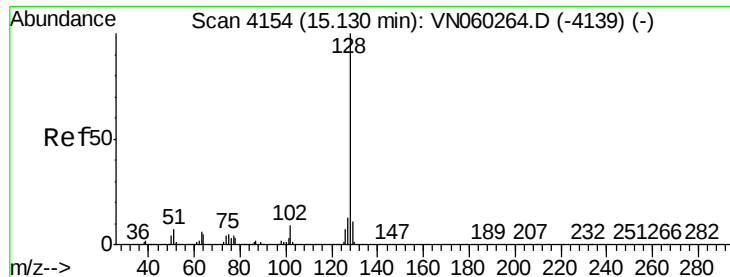
#93
1,2,4-Trichlorobenzene
Concen: 0.584 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN060493.D
Acq: 13 Mar 2020 11:40

Tgt Ion: 180 Resp: 1244
Ion Ratio Lower Upper
180 100
182 87.6 47.8 143.3
145 34.0 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): VN060264.D (-4070) (-)
Ion 181.80 (181.50 to 182.50): VN060264.D (-4070) (-)
Ion 144.80 (144.50 to 145.50): VN060264.D (-4070) (-)





#95

Naphthalene

Concen: 0.308 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

Instrument :

MSVOA_N

ClientSampleId :

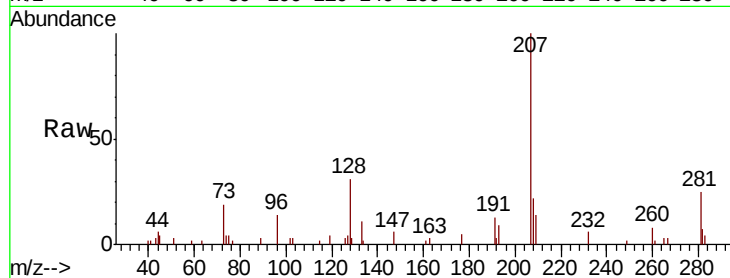
Tot Ion:128 Resp: 4263

Ion Ratio Lower Upper

128 100

127 10.2 10.4 15.6#

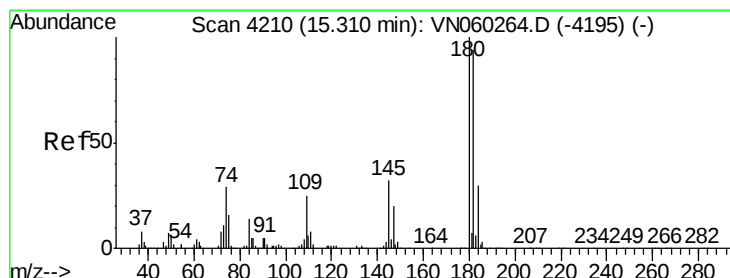
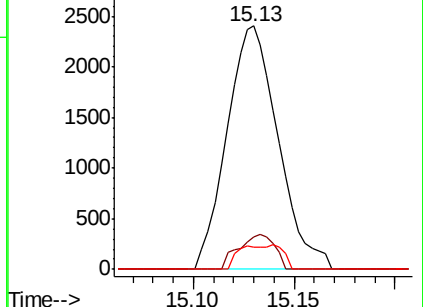
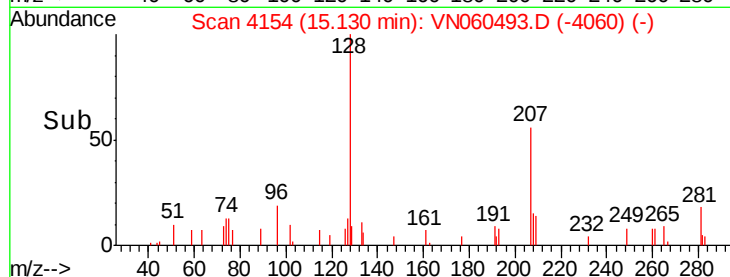
129 4.7 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.363 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN060493.D

Acq: 13 Mar 2020 11:40

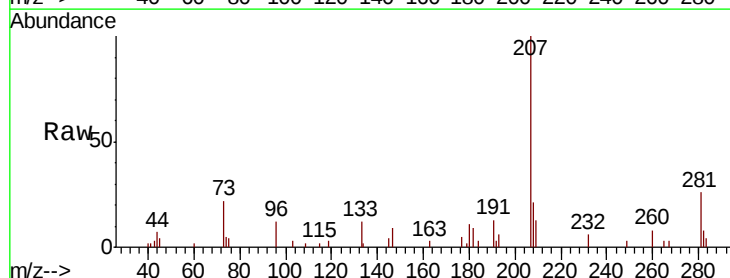
Tgt Ion:180 Resp: 1283

Ion Ratio Lower Upper

180 100

182 93.6 47.3 142.0

145 34.1 16.2 48.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

