

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012820\
 Data File : VN059894.D
 Acq On : 28 Jan 2020 13:56
 Operator : JC/MD
 Sample : L1267-03 100X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 28 22:22:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	227635	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	341155	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	302786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	131218	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	118283	46.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.58%	
35) Dibromofluoromethane	7.56	113	101359	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	
50) Toluene-d8	10.08	98	401626	50.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.40	95	134627	47.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.76%	

Target Compounds

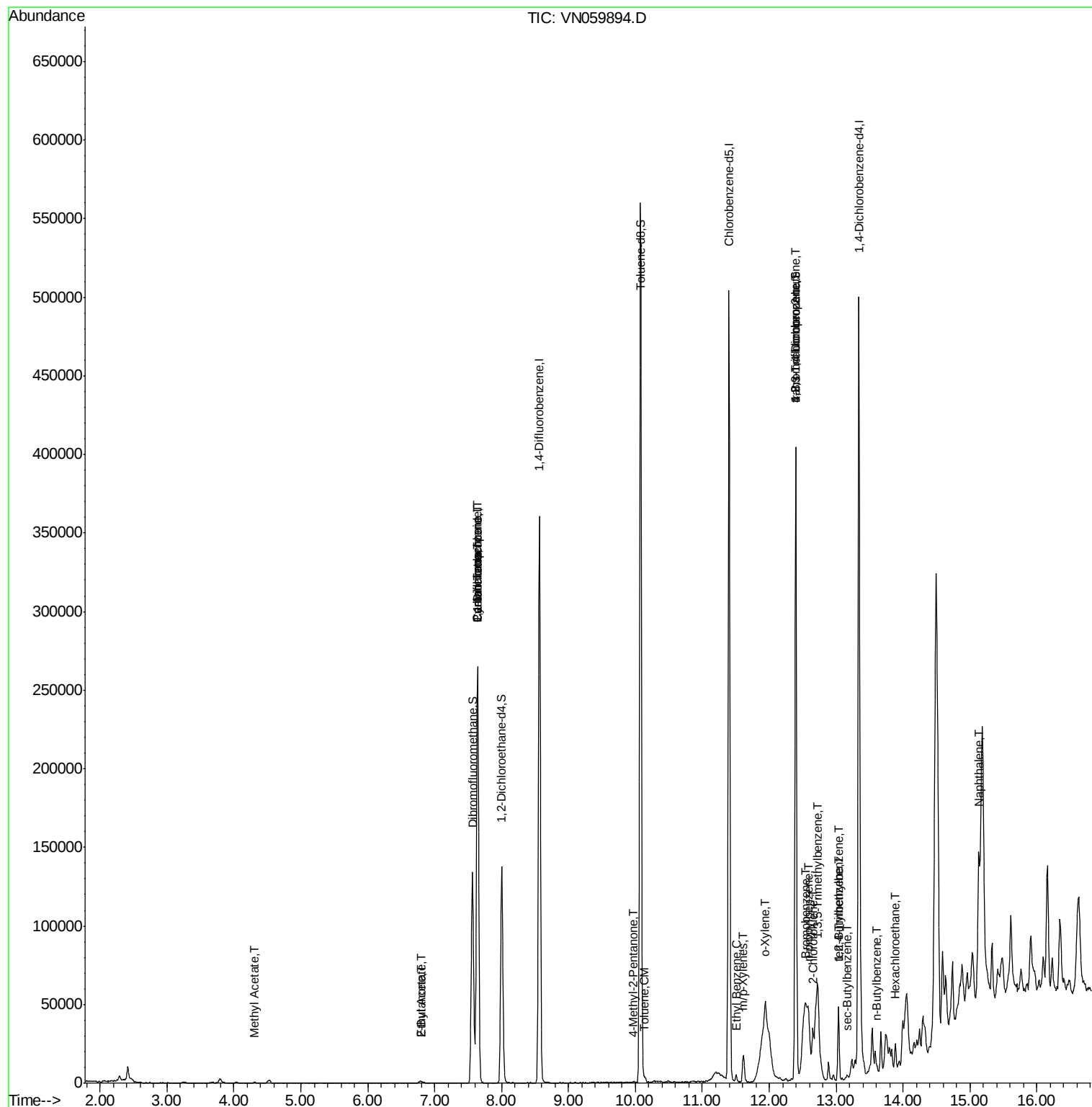
					Qvalue
16) Acetone	3.79	43	5021	Below Cal	94
18) Methyl Acetate	4.31	43	701	0.237 ug/l #	54
20) Methylene Chloride	4.53	84	1455	Below Cal	90
25) 2-Butanone	6.81	43	1184	0.827 ug/l #	50
31) Cyclohexane	7.64	56	4532	1.212 ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15040	5.062 ug/l #	51
37) Ethyl Acetate	6.81	43	1184	0.425 ug/l #	69
38) Carbon Tetrachloride	7.64	117	20398	6.312 ug/l #	15
51) 4-Methyl-2-Pentanone	9.98	43	879	0.317 ug/l #	67
52) Toluene	10.14	92	1488	0.266 ug/l	83
67) Ethyl Benzene	11.50	91	3861	0.357 ug/l	98
68) m/p-Xylenes	11.61	106	5700	1.397 ug/l	91
69) o-Xylene	11.94	106	3937	0.985 ug/l	97
76) 1,2,3-Trichloropropane	12.40	75	67192	30.427 ug/l #	100
77) Bromobenzene	12.53	156	85764	35.192 ug/l #	1
78) n-propylbenzene	12.59	91	4671	0.432 ug/l	95
79) 2-Chlorotoluene	12.65	91	2030	0.316 ug/l #	60
80) 1,3,5-Trimethylbenzene	12.73	105	6572	0.812 ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	67192	65.343 ug/l #	11
83) tert-Butylbenzene	13.04	119	3477	0.497 ug/l #	75
84) 1,2,4-Trimethylbenzene	13.04	105	26987	3.370 ug/l	97
85) sec-Butylbenzene	13.17	105	2083	0.226 ug/l	99
89) n-Butylbenzene	13.61	91	2552	0.352 ug/l #	83
90) Hexachloroethane	13.89	117	872	0.548 ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.30	75	751	Below Cal #	6
95) Naphthalene	15.13	128	63535	8.883 ug/l	95

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

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059894.D

Acq: 28 Jan 2020 13:56

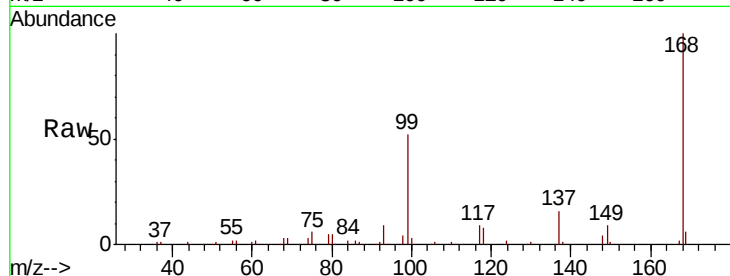
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 227635

Ion Ratio Lower Upper

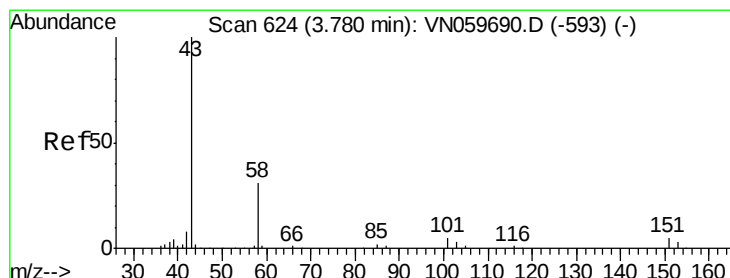
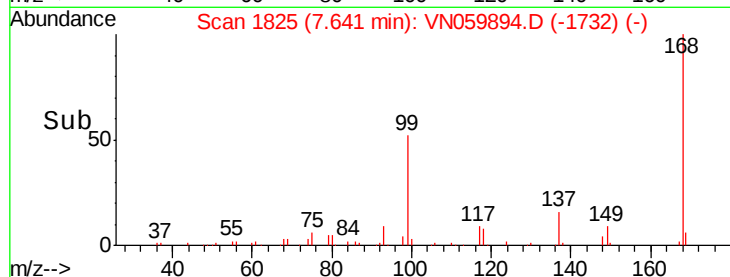
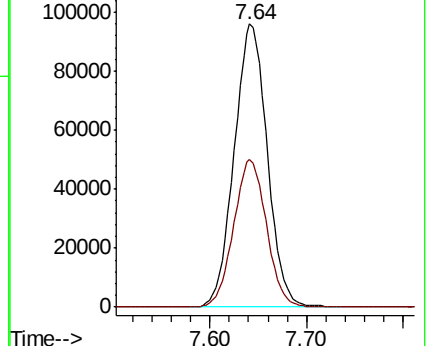
168 100

99 52.3 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059894.D

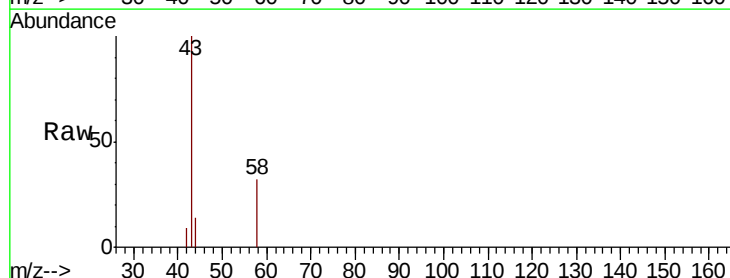
Acq: 28 Jan 2020 13:56

Tgt Ion: 43 Resp: 5021

Ion Ratio Lower Upper

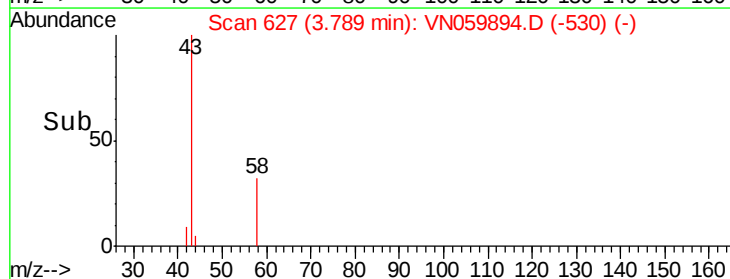
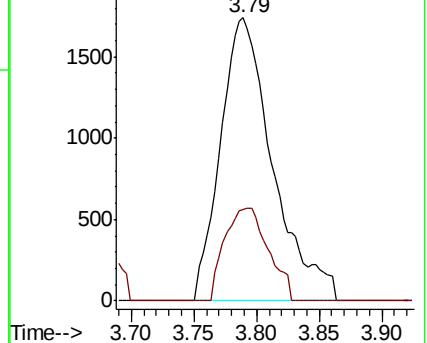
43 100

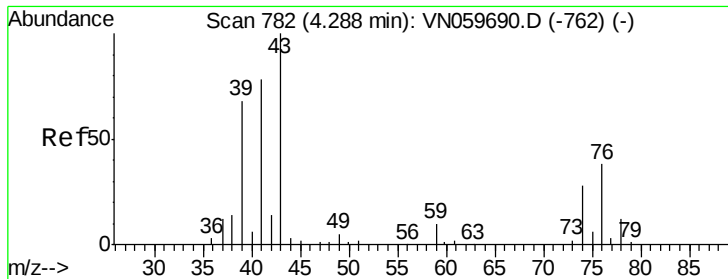
58 32.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

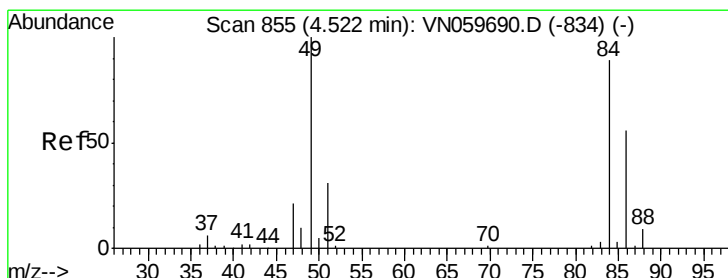
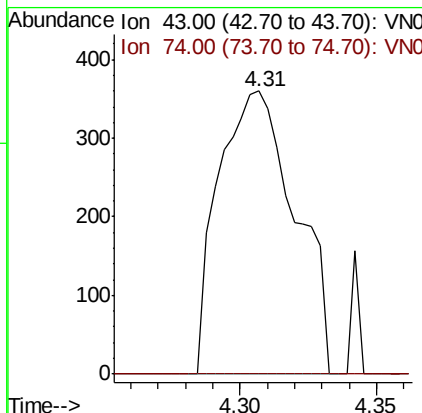
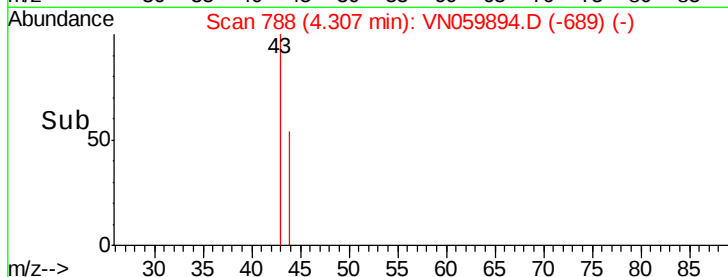
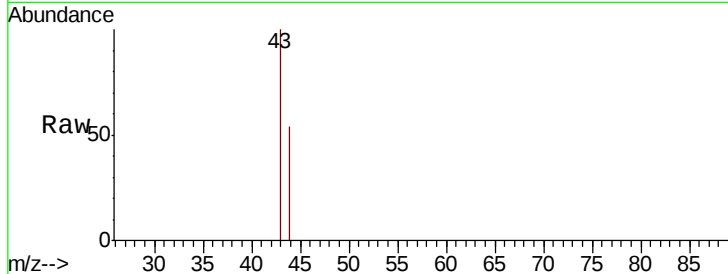




#18
Methyl Acetate
Concen: 0.237 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

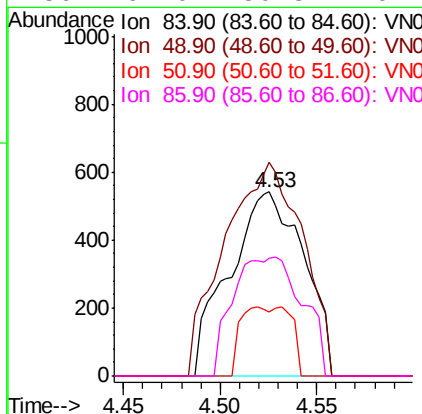
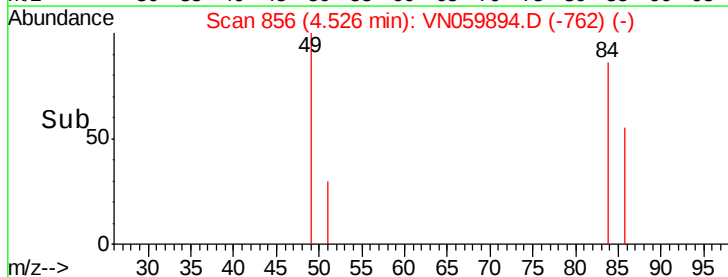
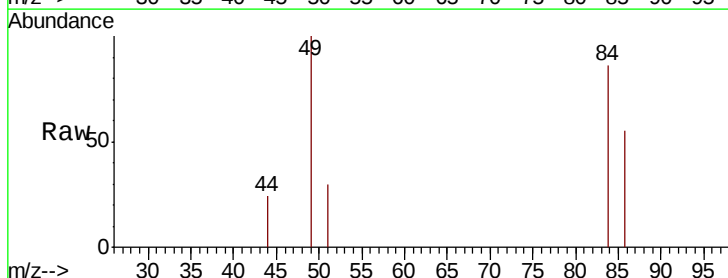
Instrument :
MSVOA_N
ClientSampled :

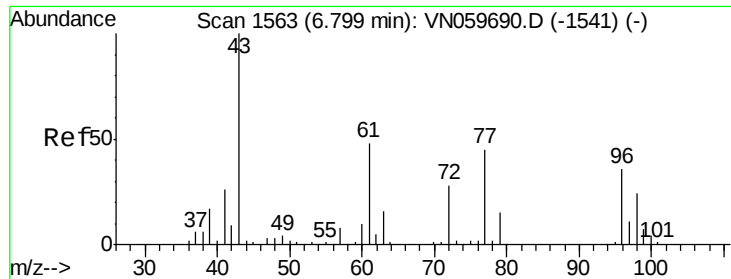
Tot Ion: 43 Resp: 701
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Tgt Ion: 84 Resp: 1455
Ion Ratio Lower Upper
84 100
49 116.3 106.6 160.0
51 35.1 31.9 47.9
86 64.0 50.8 76.2

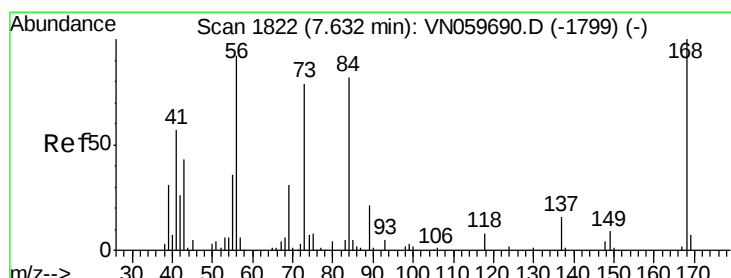
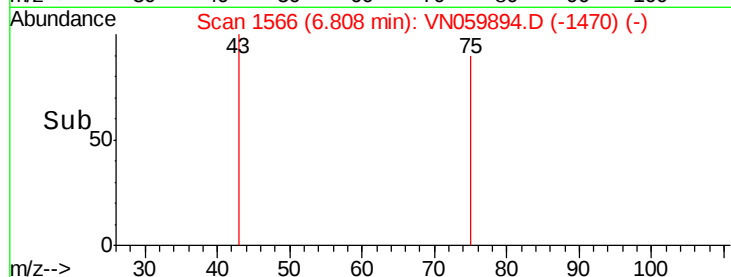
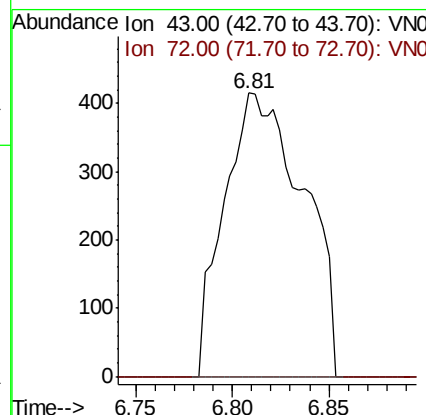
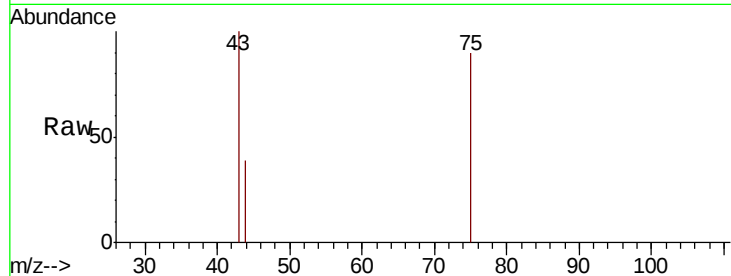




#25
2-Butanone
Concen: 0.827 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

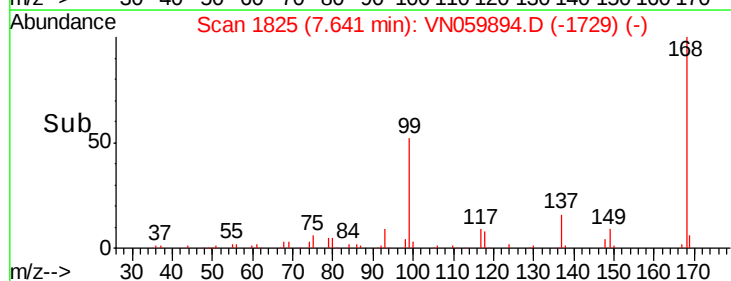
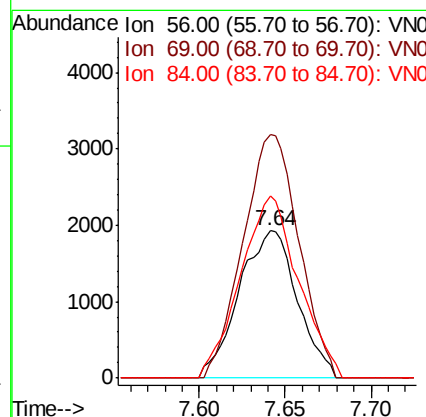
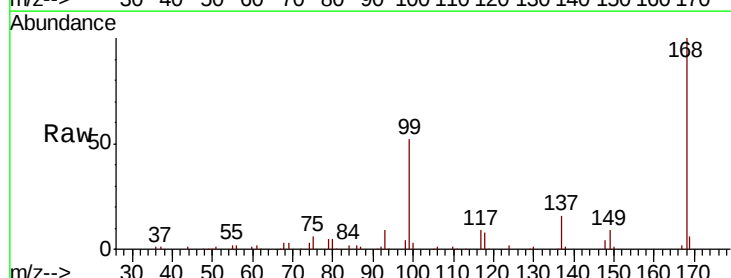
Instrument :
MSVOA_N
ClientSampleId :

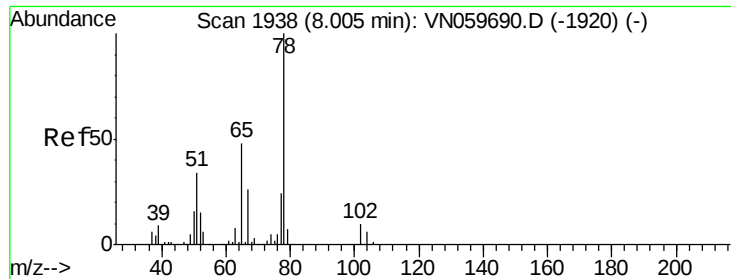
Tot Ion: 43 Resp: 1184
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.212 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Tgt Ion: 56 Resp: 4532
Ion Ratio Lower Upper
56 100
69 165.2 26.5 39.7#
84 123.5 65.3 97.9#

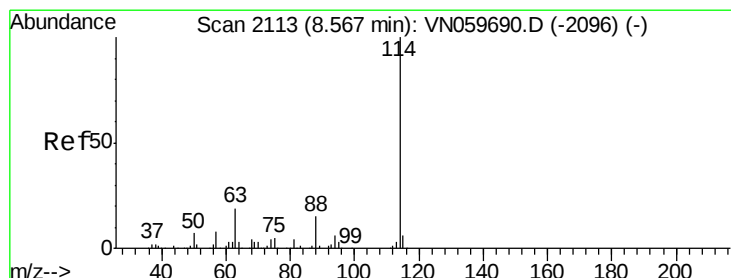
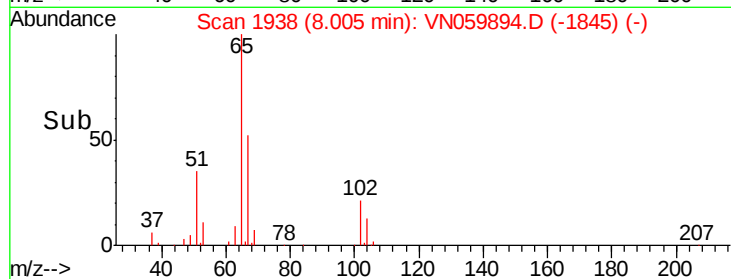
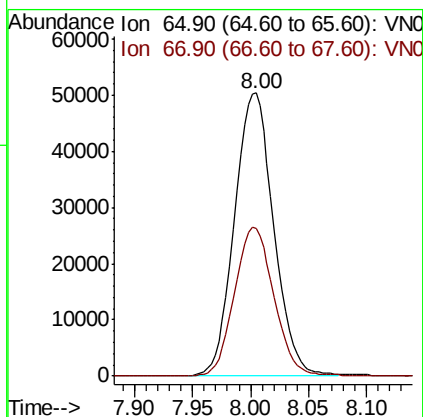
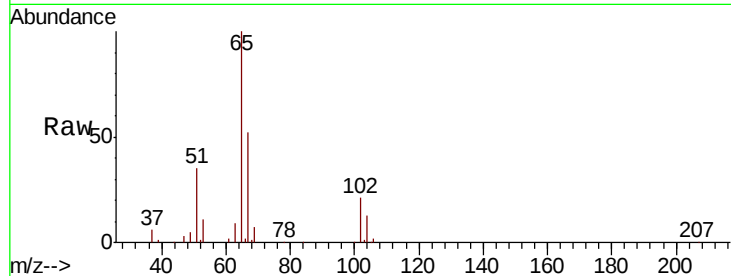




#33
 1,2-Dichloroethane-d4
 Concen: 46.790 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059894.D
 Acq: 28 Jan 2020 13:56

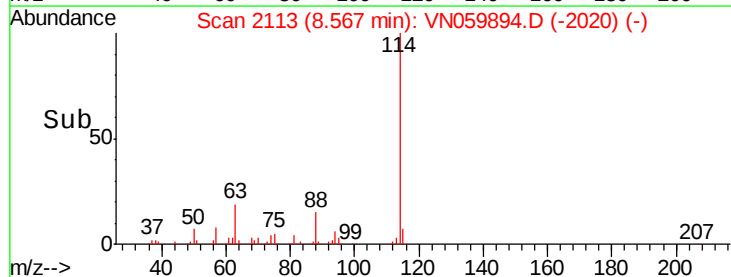
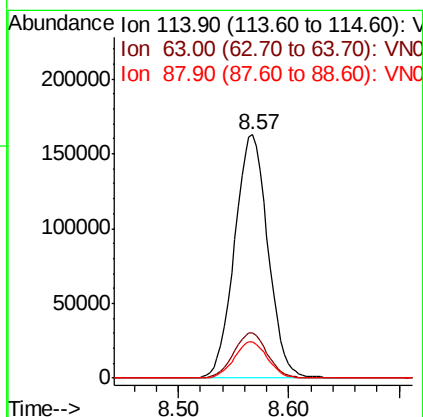
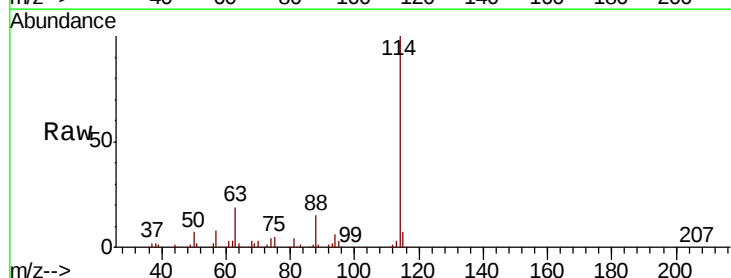
Instrument :
 MSVOA_N
 ClientSampleId :

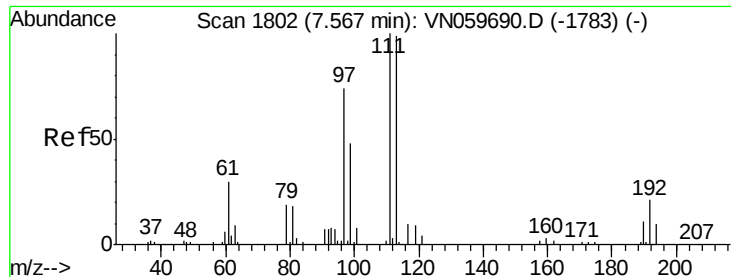
Tot Ion: 65 Resp: 118283
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059894.D
 Acq: 28 Jan 2020 13:56

Tgt Ion: 114 Resp: 341155
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 43.6
 88 14.9 0.0 31.4

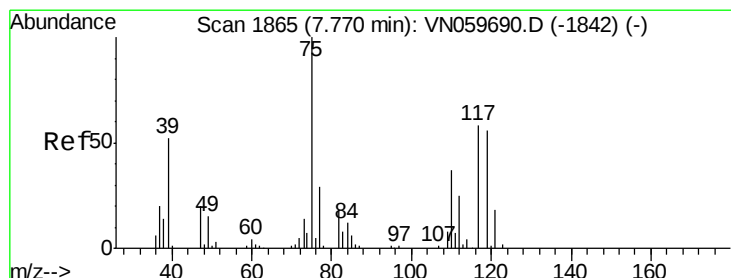
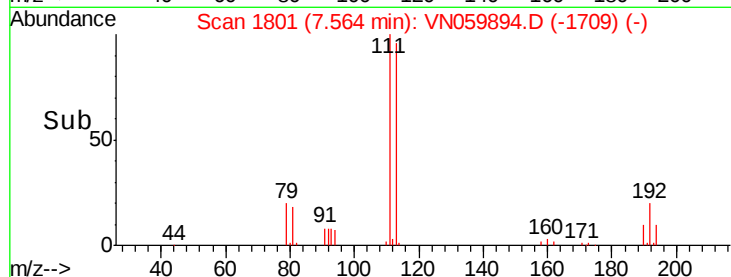
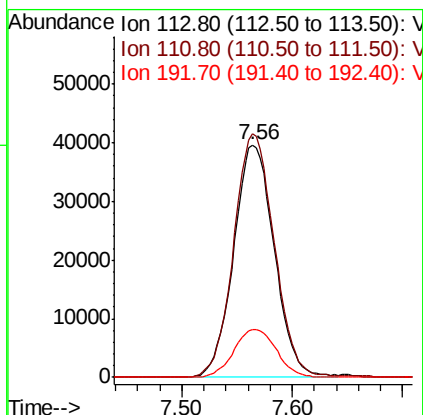
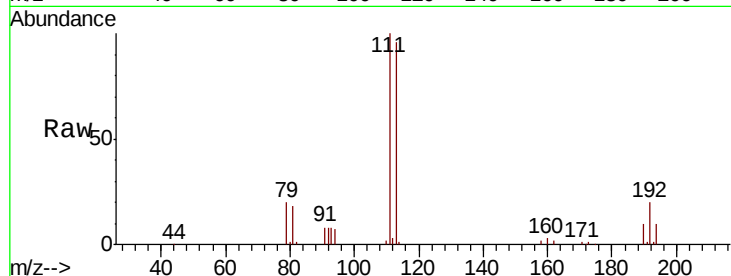




#35
Dibromofluoromethane
Concen: 49.821 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

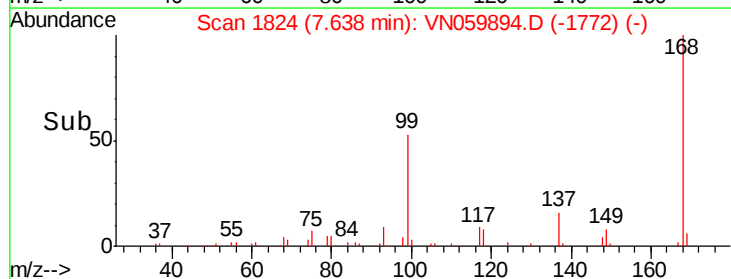
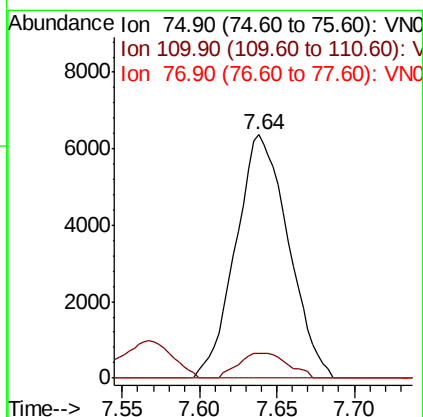
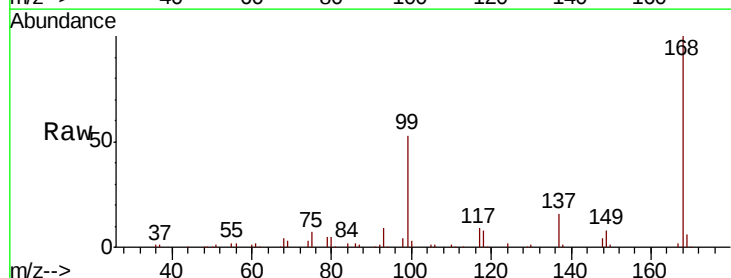
Instrument :
MSVOA_N
ClientSampled :

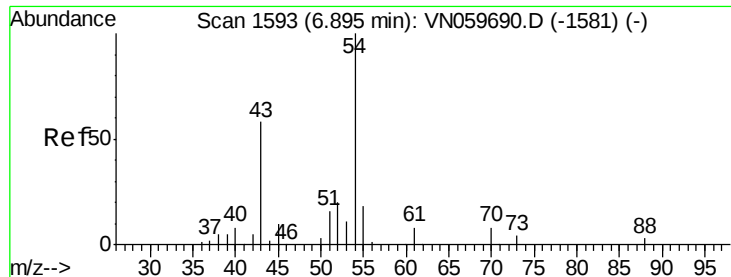
Tot Ion:113 Resp: 101359
Ion Ratio Lower Upper
113 100
111 104.8 83.5 125.3
192 21.4 15.4 23.2



#36
1,1-Dichloropropene
Concen: 5.062 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. -0.13 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Tgt Ion: 75 Resp: 15040
Ion Ratio Lower Upper
75 100
110 9.6 16.6 49.7#
77 0.0 25.1 37.7#

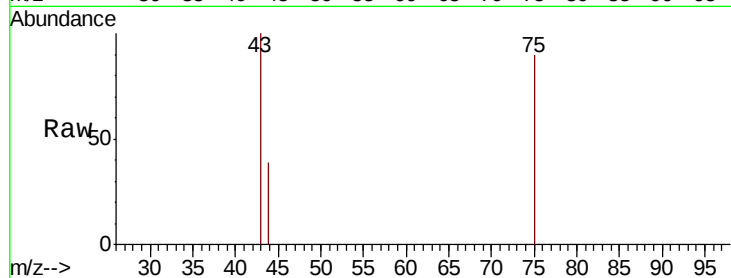




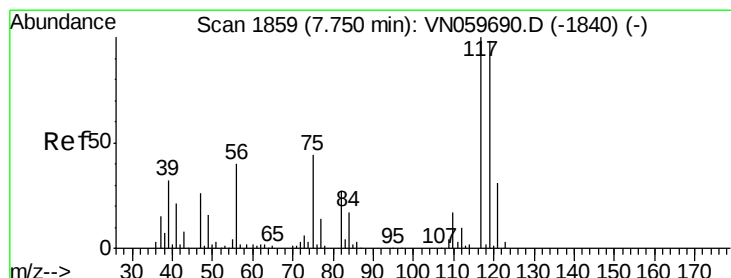
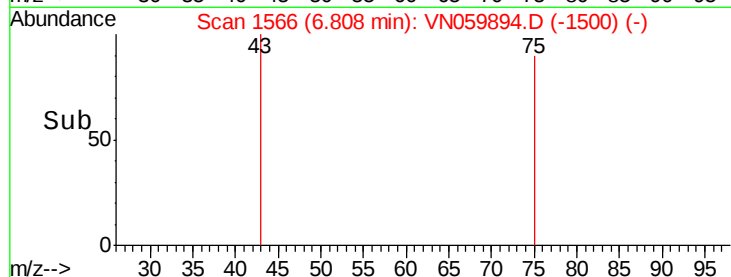
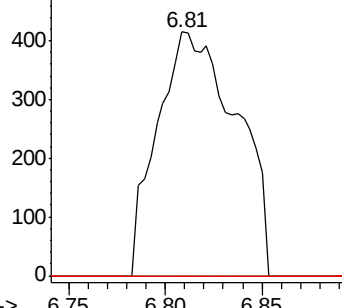
#37
Ethyl Acetate
Concen: 0.425 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.09 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1184
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#

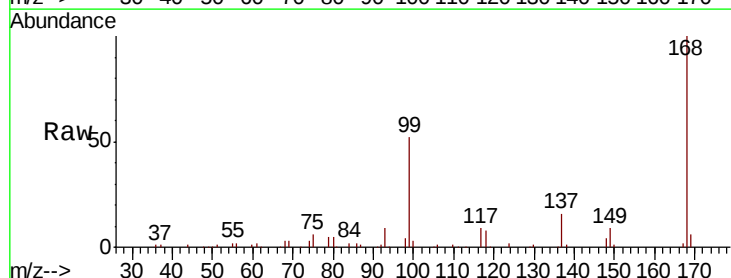


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

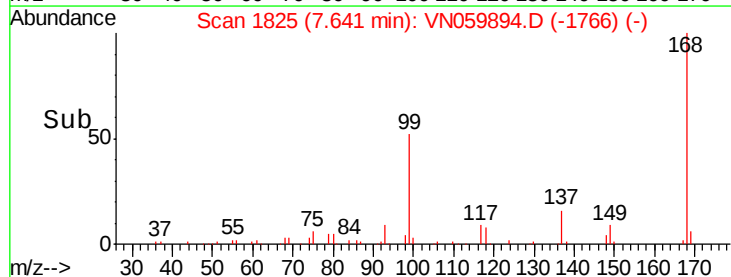
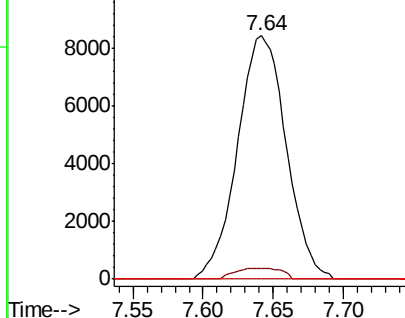


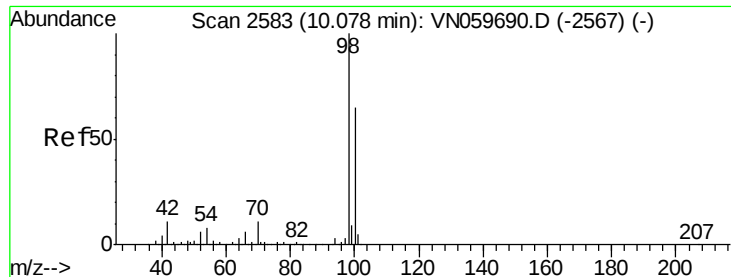
#38
Carbon Tetrachloride
Concen: 6.312 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Tgt Ion: 117 Resp: 20398
Ion Ratio Lower Upper
117 100
119 4.2 76.5 114.7#
121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 50.951 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN059894.D

Acq: 28 Jan 2020 13:56

Instrument :

MSVOA_N

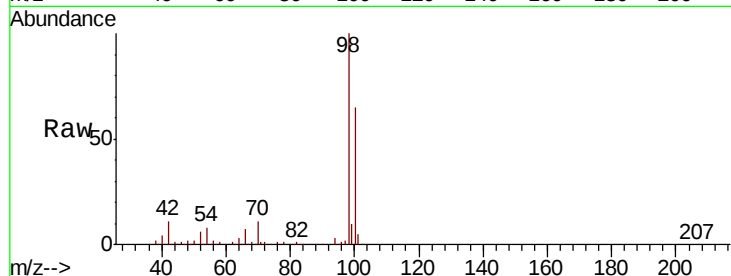
ClientSampleId :

Tot Ion: 98 Resp: 401626

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN059690.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN059690.D (-2567) (-)

10.08

250000

200000

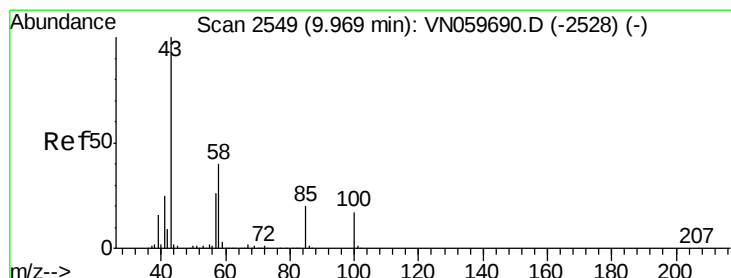
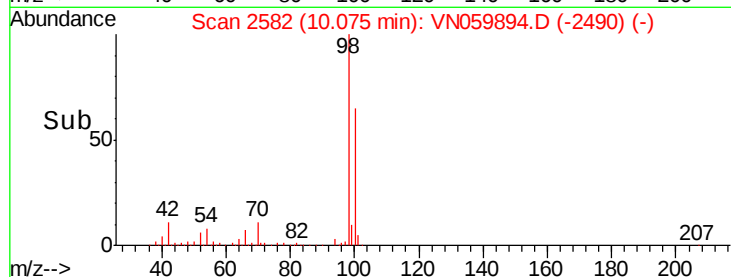
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.317 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.01 min

Lab File: VN059894.D

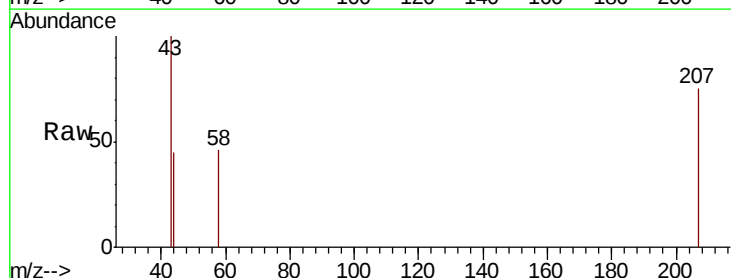
Acq: 28 Jan 2020 13:56

Tgt Ion: 43 Resp: 879

Ion Ratio Lower Upper

43 100

58 17.6 29.8 44.8#



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN059690.D (-2528) (-)

9.98

400

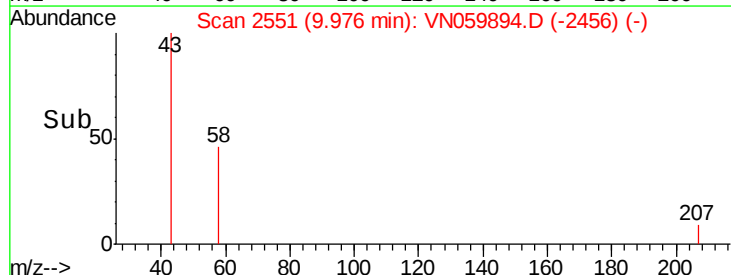
300

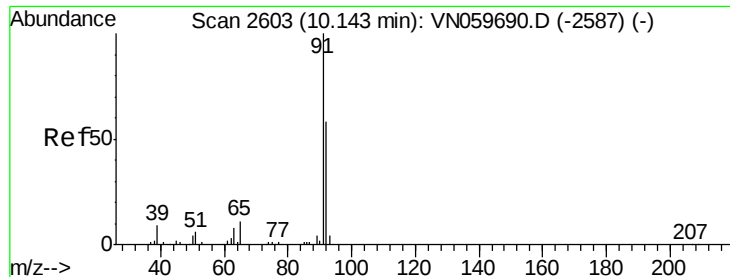
200

100

0

Time-->





#52

Toluene

Concen: 0.266 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. 0.00 min

Lab File: VN059894.D

Acq: 28 Jan 2020 13:56

Instrument :

MSVOA_N

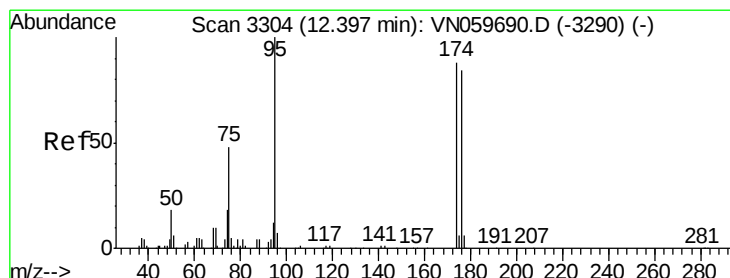
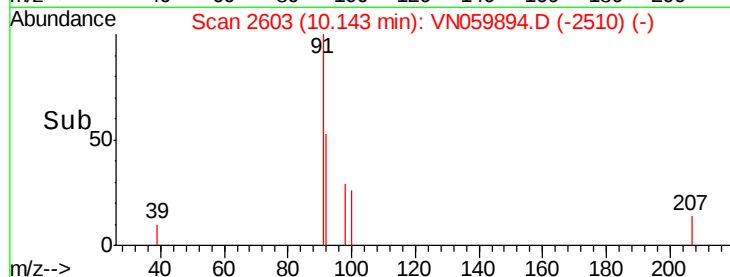
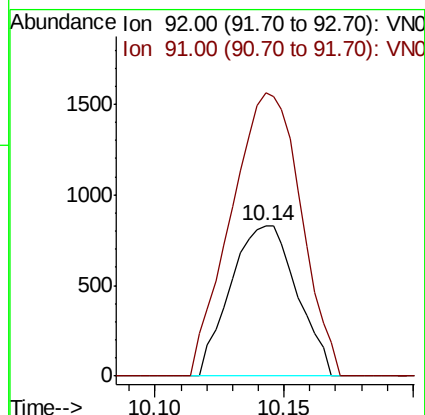
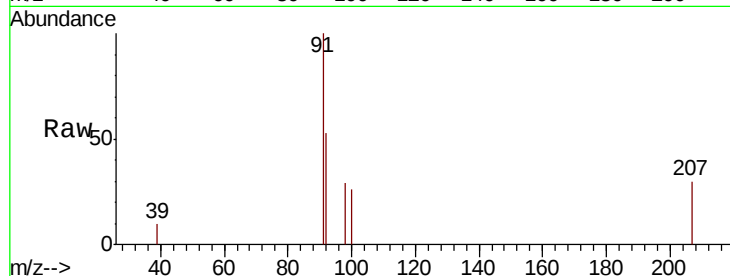
ClientSampleId :

Tot Ion: 92 Resp: 1488

Ion Ratio Lower Upper

92 100

91 198.6 140.4 210.6



#62

4-Bromofluorobenzene

Concen: 47.377 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059894.D

Acq: 28 Jan 2020 13:56

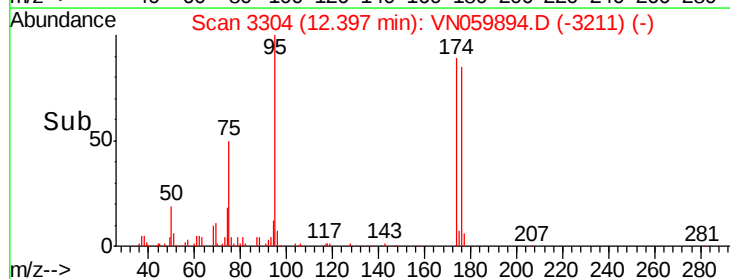
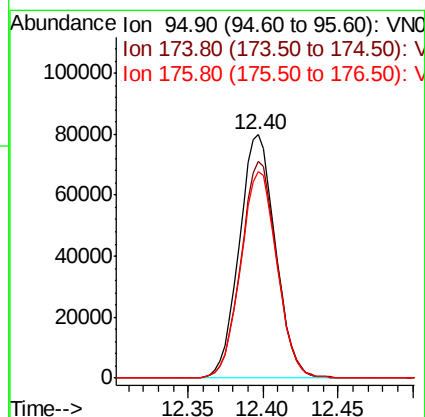
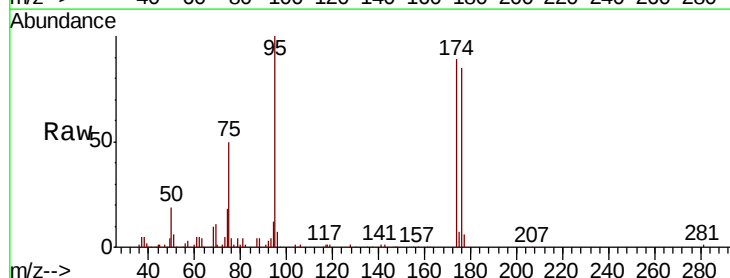
Tgt Ion: 95 Resp: 134627

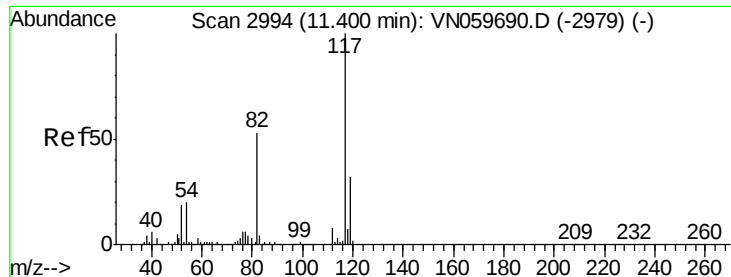
Ion Ratio Lower Upper

95 100

174 88.4 0.0 151.4

176 85.2 0.0 146.0

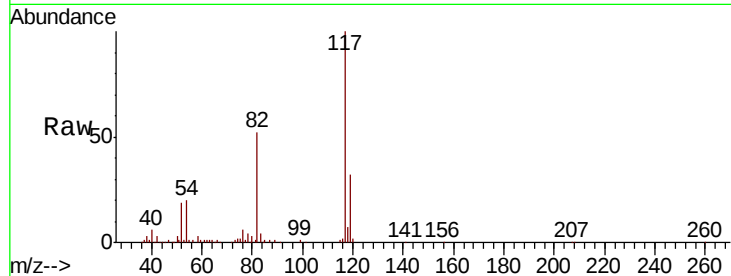




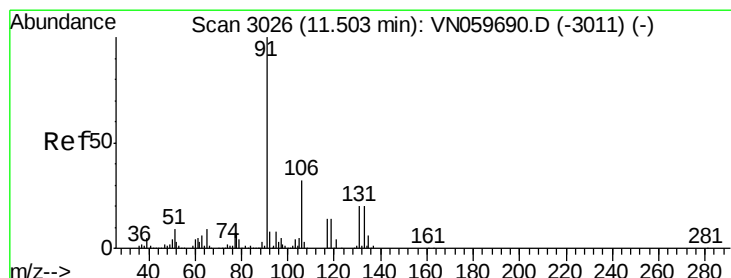
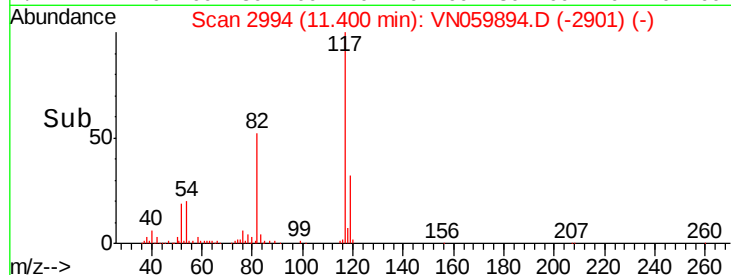
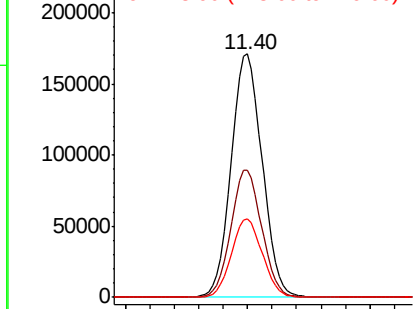
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 302786
Ion Ratio Lower Upper
117 100
82 52.4 45.9 68.9
119 32.3 25.5 38.3

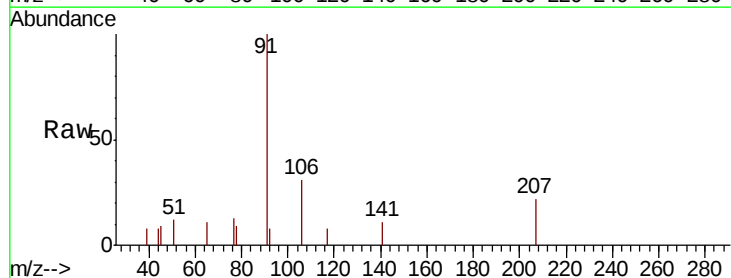


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

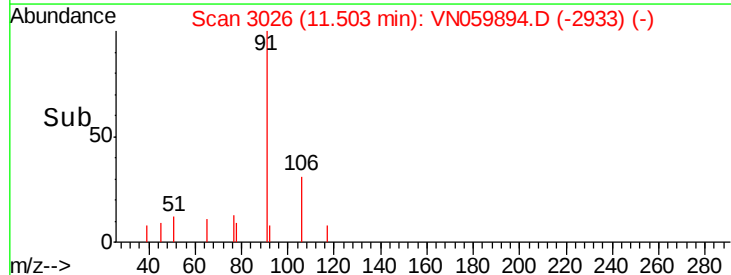
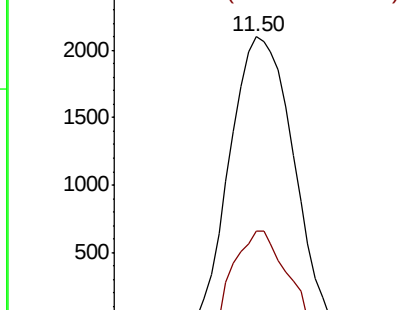


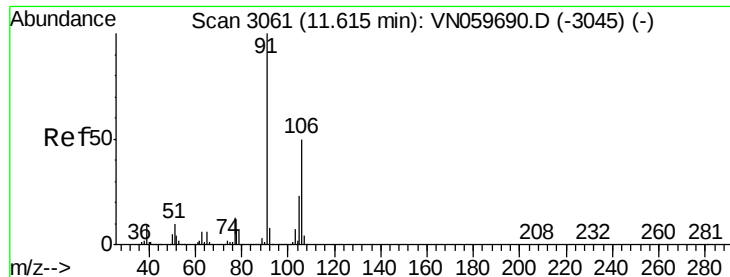
#67
Ethyl Benzene
Concen: 0.357 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Tgt Ion: 91 Resp: 3861
Ion Ratio Lower Upper
91 100
106 31.2 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 106.00 (105.70 to 106.70): V

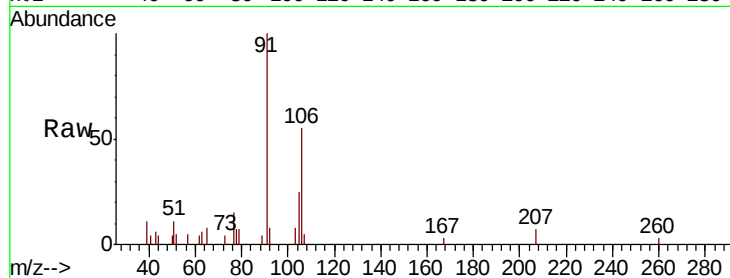




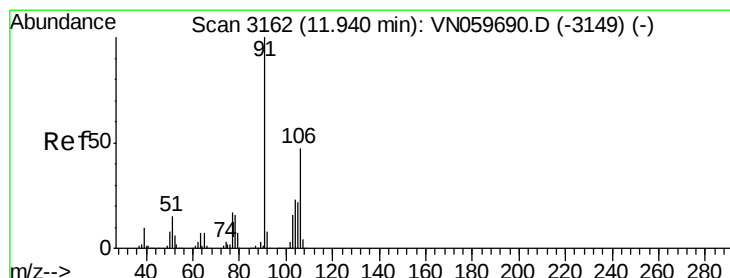
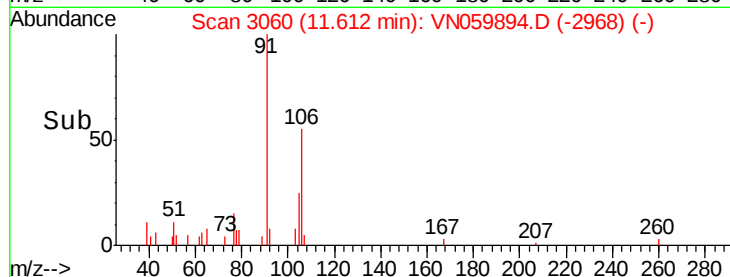
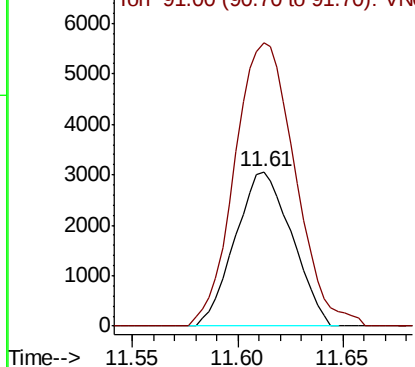
#68
m/p-Xylenes
Concen: 1.397 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.00 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:106 Resp: 5700
Ion Ratio Lower Upper
106 100
91 196.2 167.9 251.9

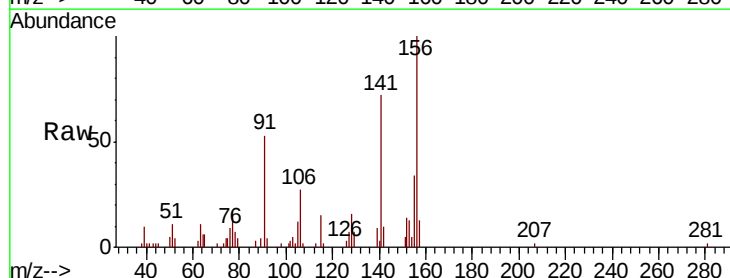


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

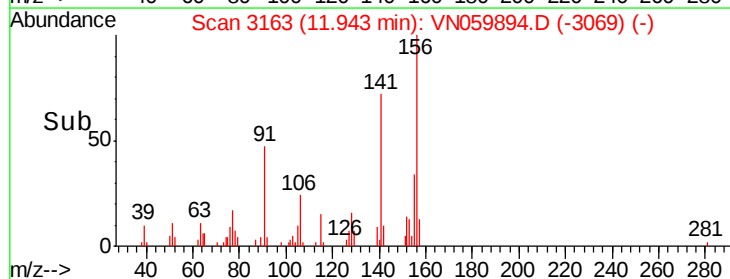
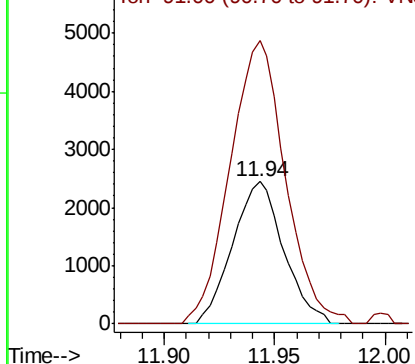


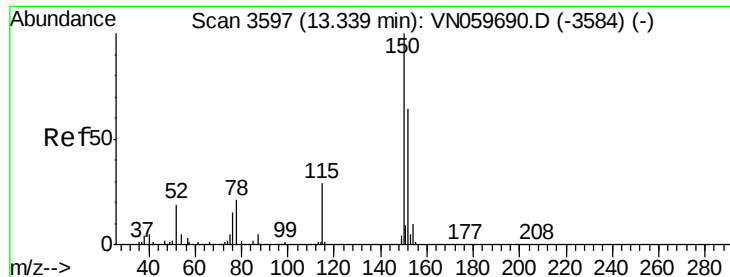
#69
o-Xylene
Concen: 0.985 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Tgt Ion:106 Resp: 3937
Ion Ratio Lower Upper
106 100
91 215.5 110.3 330.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN



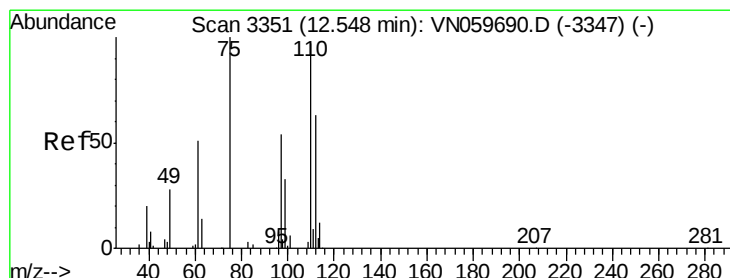
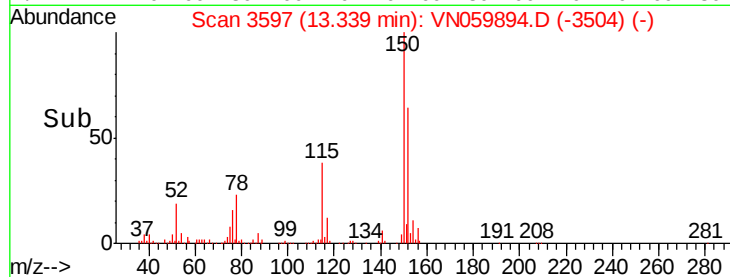
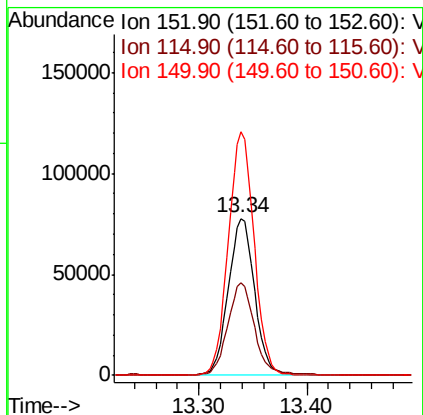
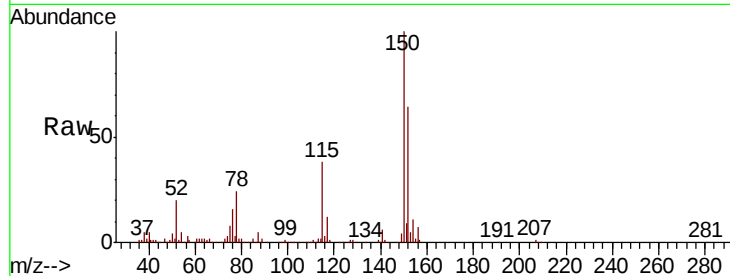


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Instrument :
MSVOA_N
ClientSampled :

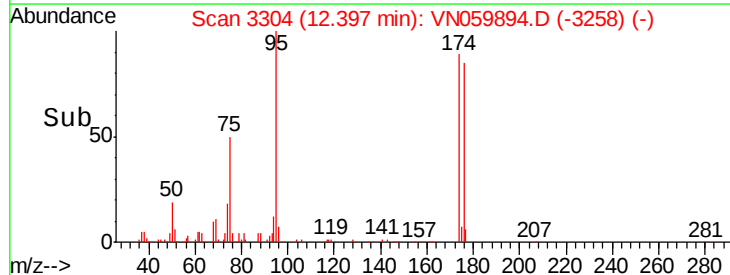
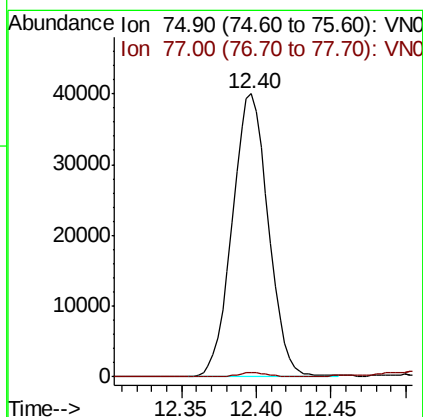
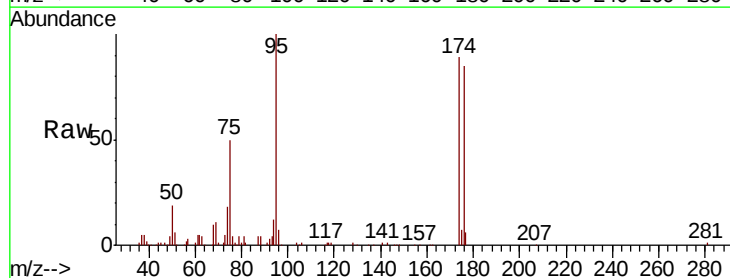
Tot Ion:152 Resp: 131218
Ion Ratio Lower Upper
152 100
115 60.5 30.3 90.9
150 153.5 0.0 345.2

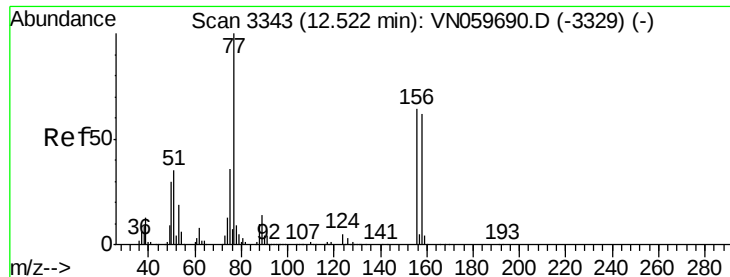


#76

1,2,3-Trichloropropane
Concen: 30.427 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Tgt Ion: 75 Resp: 67192
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#





#77

Bromobenzene

Concen: 35.192 ug/l

RT: 12.53 min Scan# 3347

Delta R.T. 0.01 min

Lab File: VN059894.D

Acq: 28 Jan 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

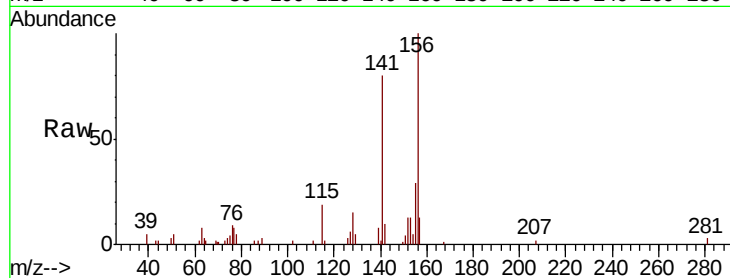
Tot Ion:156 Resp: 85764

Ion Ratio Lower Upper

156 100

77 3.5 115.8 347.4#

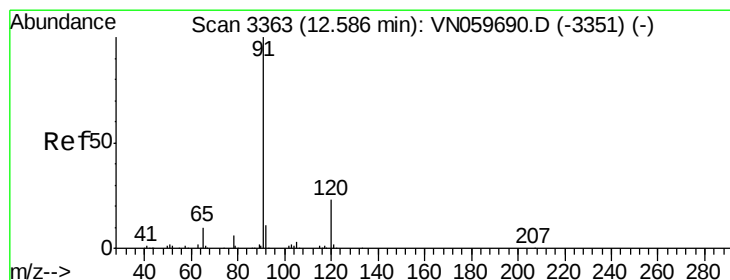
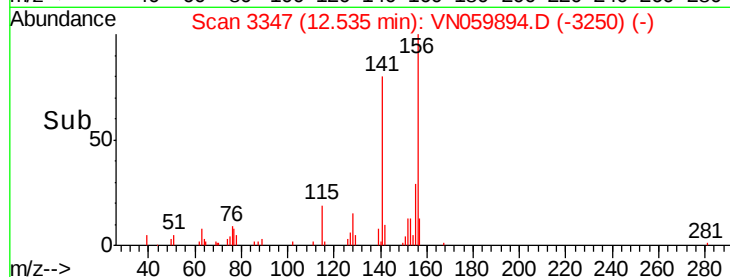
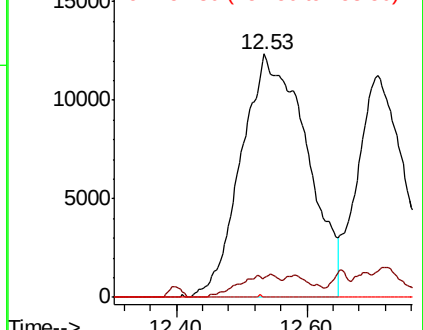
158 0.0 49.2 147.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.432 ug/l

RT: 12.59 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN059894.D

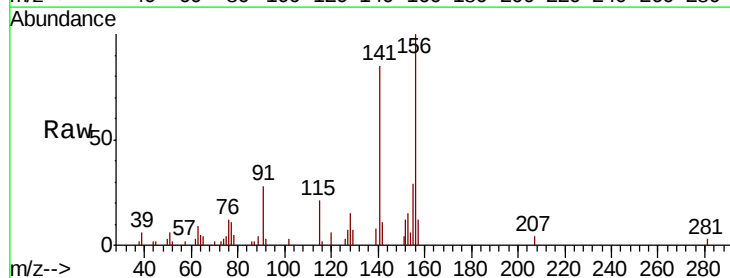
Acq: 28 Jan 2020 13:56

Tgt Ion: 91 Resp: 4671

Ion Ratio Lower Upper

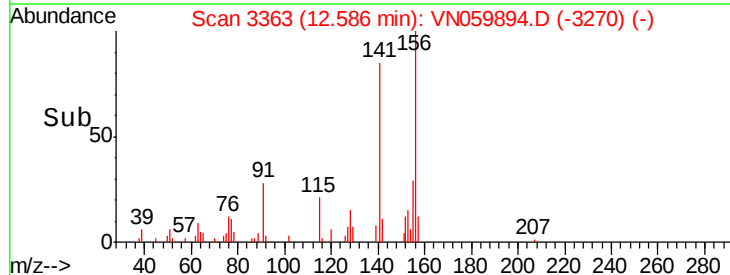
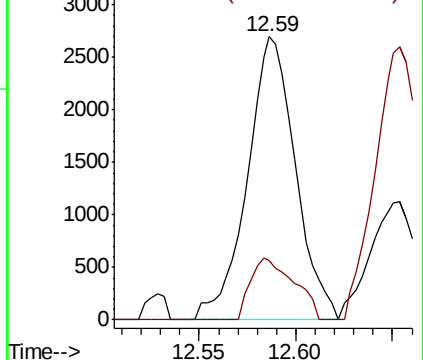
91 100

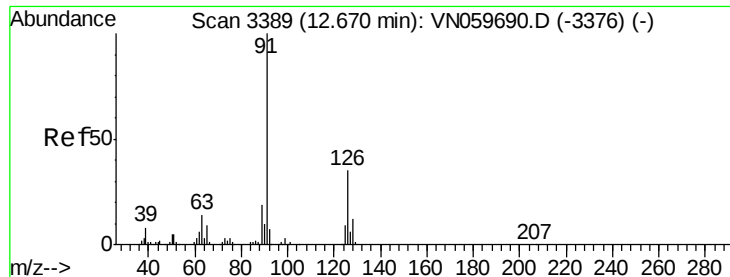
120 20.0 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

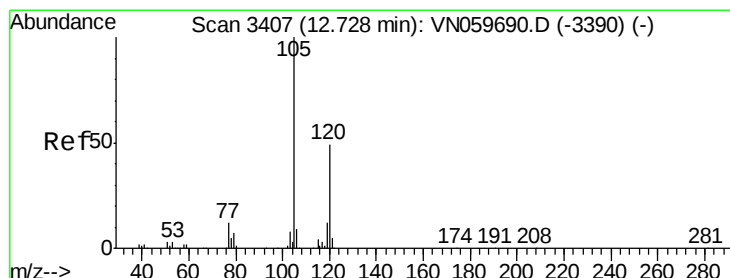
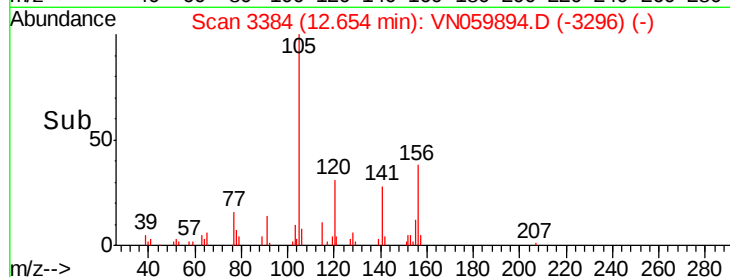
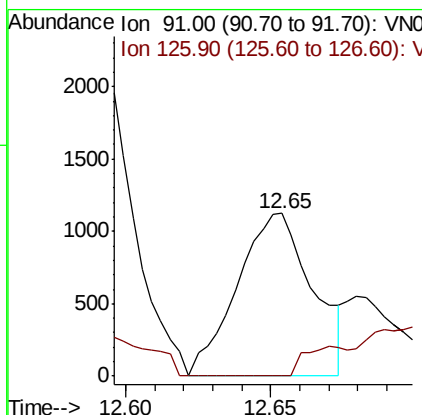
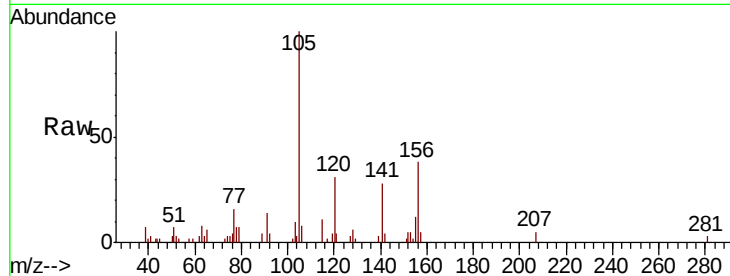




#79
2-Chlorotoluene
Concen: 0.316 ug/l
RT: 12.65 min Scan# 3384
Delta R.T. -0.02 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

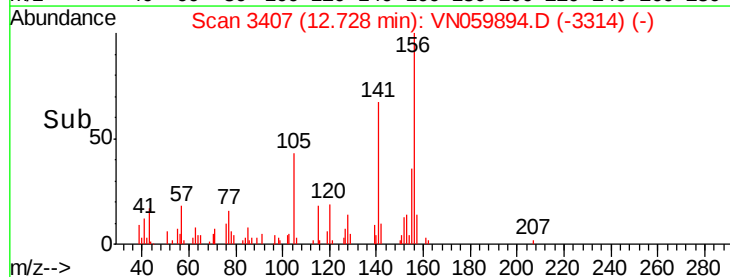
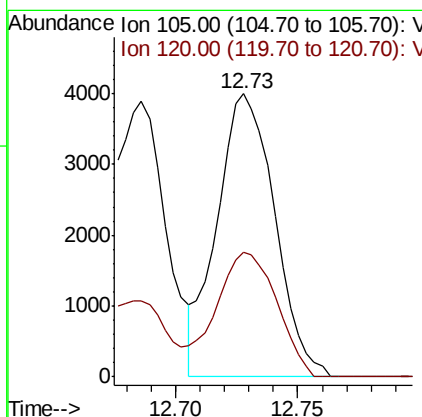
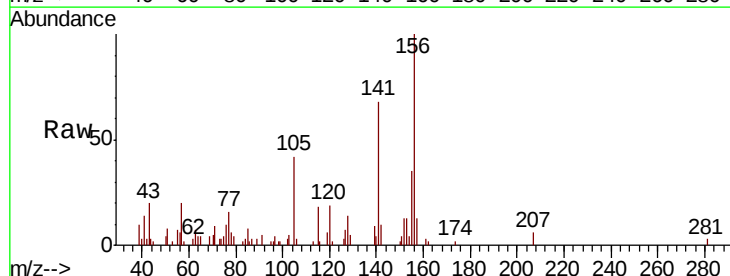
Instrument :
MSVOA_N
ClientSampled :

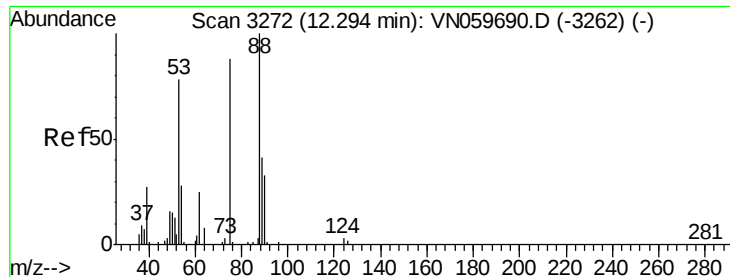
Tot Ion: 91.00 Resp: 2030
Ion Ratio Lower Upper
91 100
126 10.3 16.3 48.9#



#80
1,3,5-Trimethylbenzene
Concen: 0.812 ug/l
RT: 12.73 min Scan# 3407
Delta R.T. 0.00 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Tgt Ion: 105 Resp: 6572
Ion Ratio Lower Upper
105 100
120 45.9 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 65.343 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059894.D

Acq: 28 Jan 2020 13:56

Instrument :

MSVOA_N

ClientSampled :

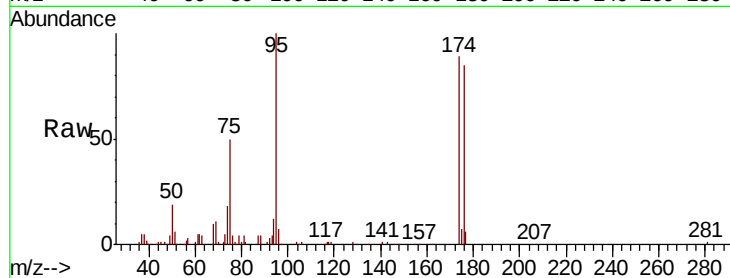
Tot Ion: 75 Resp: 67192

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

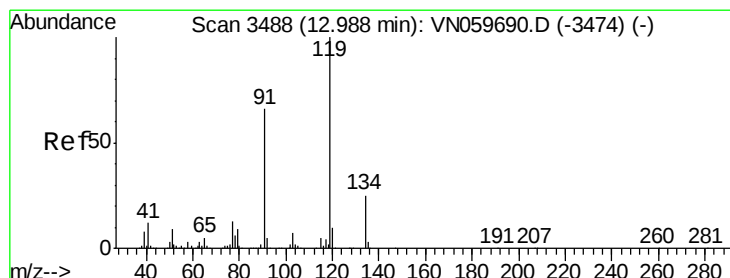
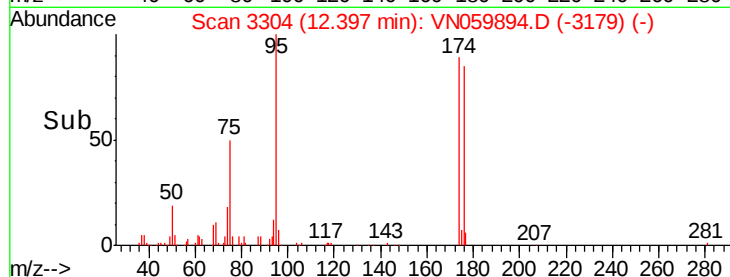
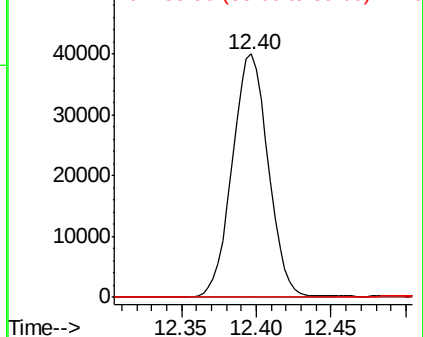
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-3262) (-)

Ion 53.00 (52.70 to 53.70): VN059690.D (-3262) (-)

Ion 88.90 (88.60 to 89.60): VN059690.D (-3262) (-)



#83

tert-Butylbenzene

Concen: 0.497 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.05 min

Lab File: VN059894.D

Acq: 28 Jan 2020 13:56

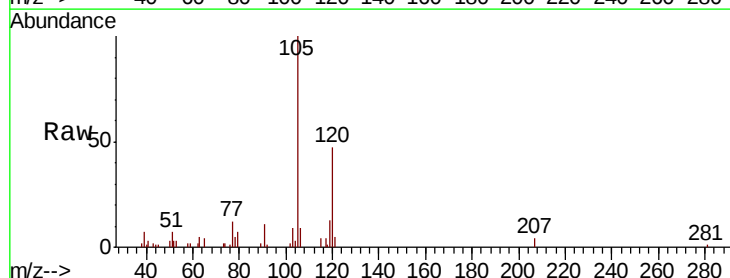
Tgt Ion: 119 Resp: 3477

Ion Ratio Lower Upper

119 100

91 83.0 34.8 104.4

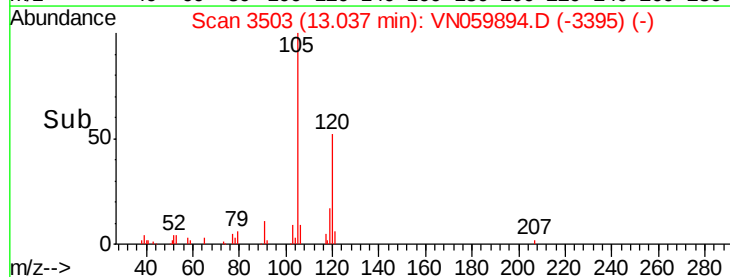
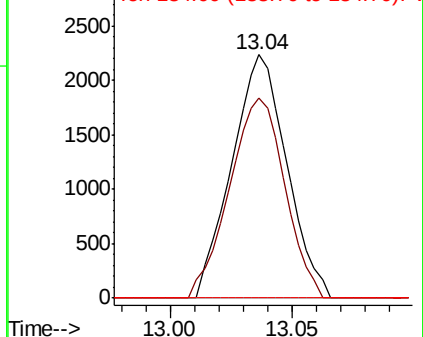
134 0.0 12.3 36.9#

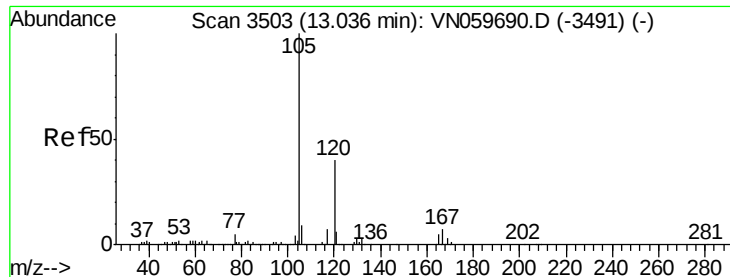


Abundance Ion 119.00 (118.70 to 119.70): VN059690.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN059690.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN059690.D (-3474) (-)

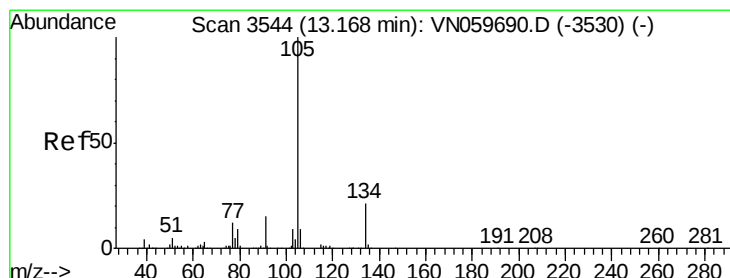
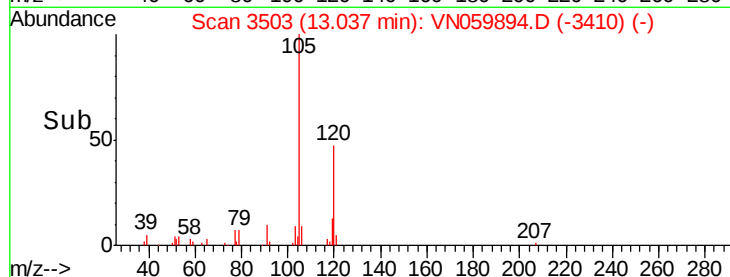
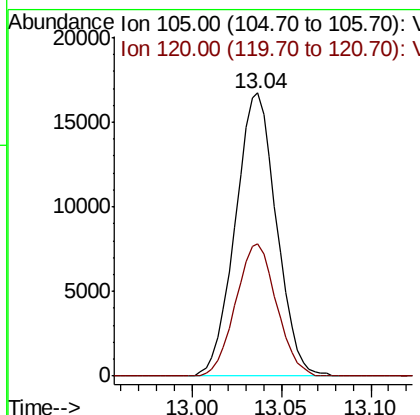
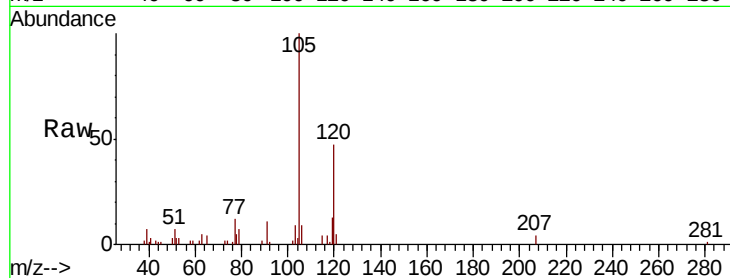




#84
 1,2,4-Trimethylbenzene
 Concen: 3.370 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN059894.D
 Acq: 28 Jan 2020 13:56

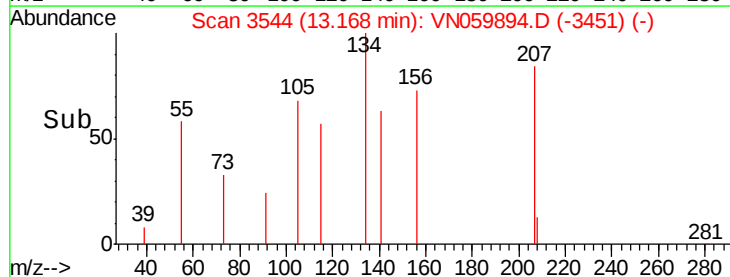
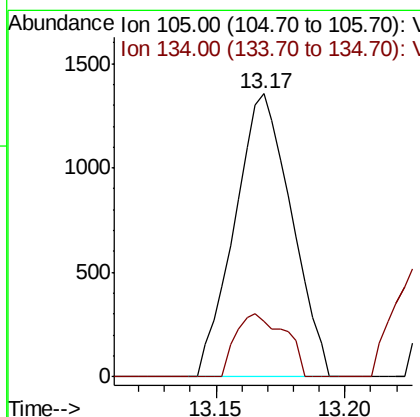
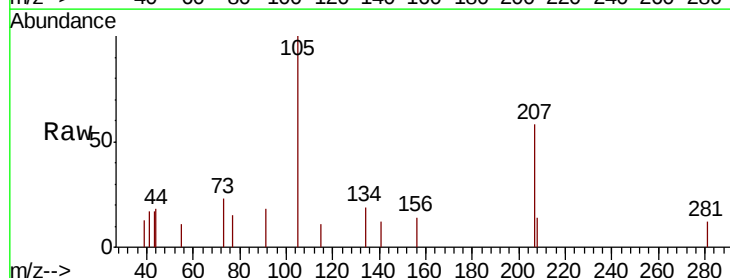
Instrument :
 MSVOA_N
 ClientSampled :

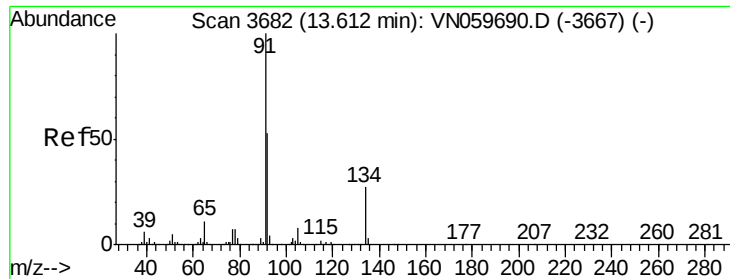
Tot Ion:105 Resp: 26987
 Ion Ratio Lower Upper
 105 100
 120 46.3 22.3 66.9



#85
 sec-Butylbenzene
 Concen: 0.226 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. 0.00 min
 Lab File: VN059894.D
 Acq: 28 Jan 2020 13:56

Tgt Ion:105 Resp: 2083
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.8 29.5

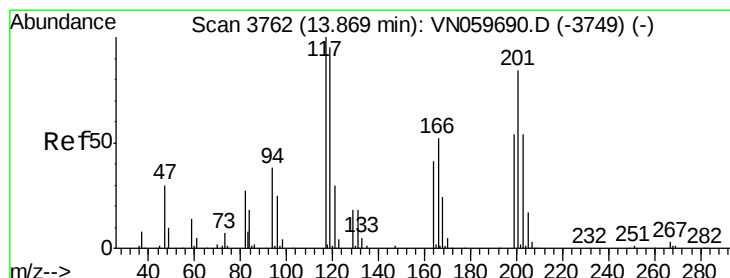
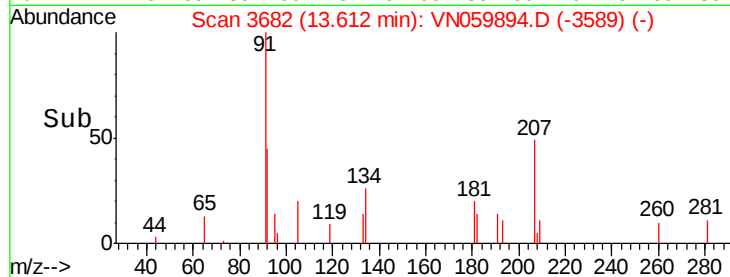
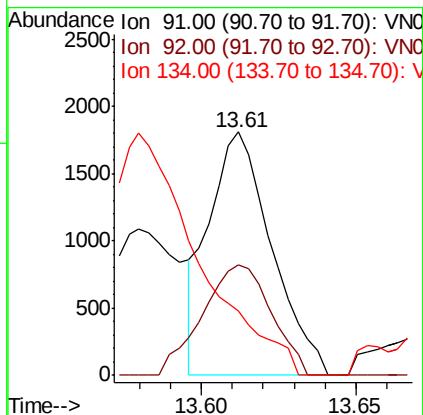
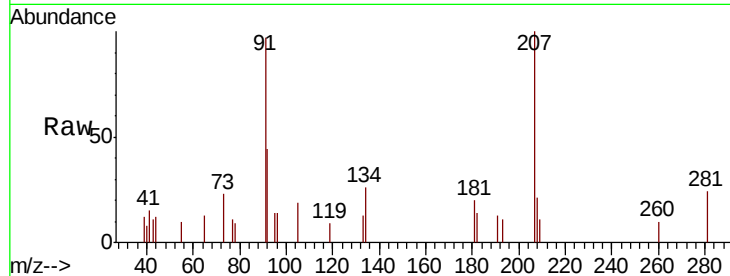




#89
n-Butylbenzene
Concen: 0.352 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

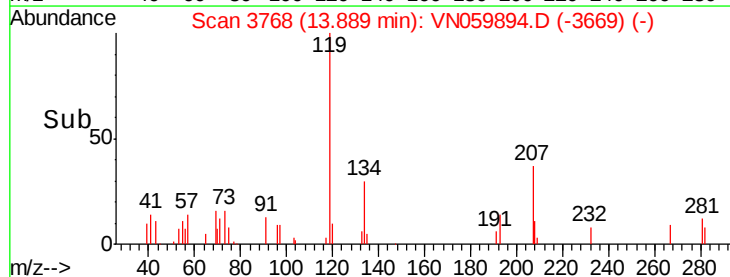
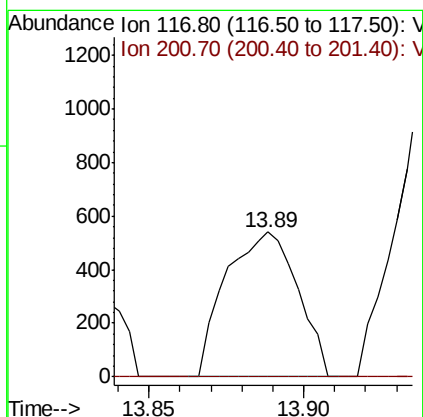
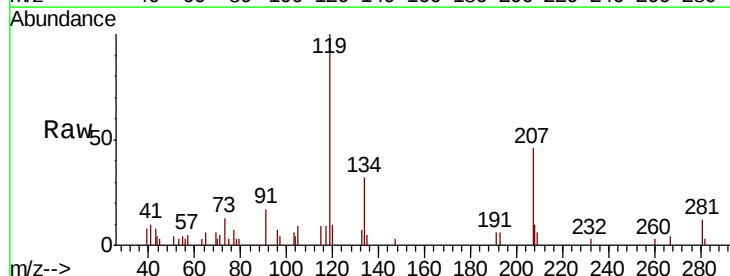
Instrument :
MSVOA_N
Client Sampled :

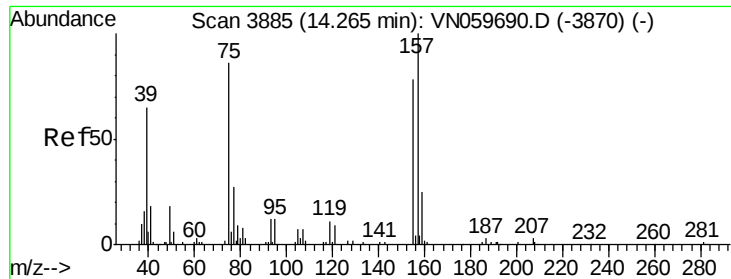
Tot Ion: 91 Resp: 2552
Ion Ratio Lower Upper
91 100
92 50.2 25.9 77.7
134 0.0 12.3 36.8#



#90
Hexachloroethane
Concen: 0.548 ug/l
RT: 13.89 min Scan# 3768
Delta R.T. 0.02 min
Lab File: VN059894.D
Acq: 28 Jan 2020 13:56

Tgt Ion: 117 Resp: 872
Ion Ratio Lower Upper
117 100
201 0.0 37.8 113.4#

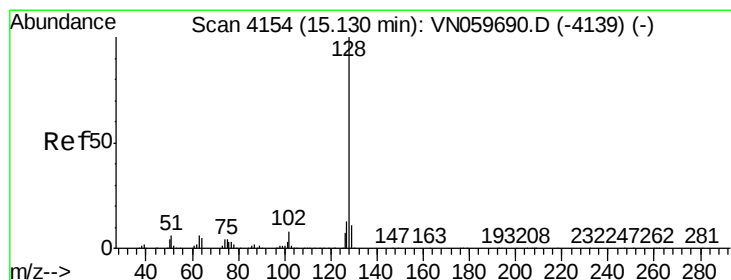
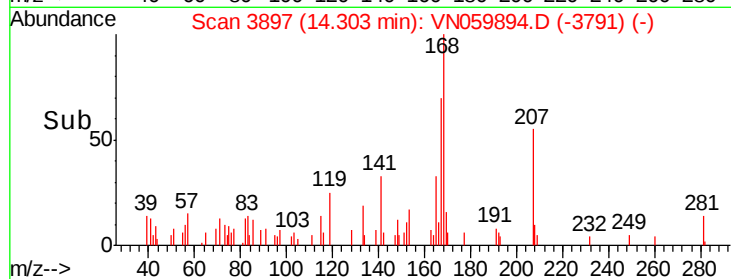
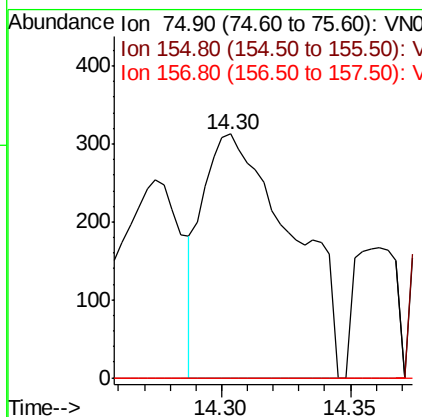
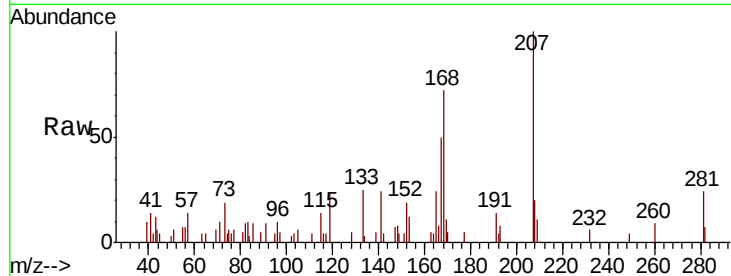




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.30 min Scan# 3897
 Delta R.T. 0.04 min
 Lab File: VN059894.D
 Acq: 28 Jan 2020 13:56

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 751
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.0 110.9#
 157 0.0 48.4 145.2#



#95
 Naphthalene
 Concen: 8.883 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059894.D
 Acq: 28 Jan 2020 13:56

Tgt Ion: 128 Resp: 63535
 Ion Ratio Lower Upper
 128 100
 127 15.4 10.4 15.6
 129 12.4 8.6 12.8

