

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012420\
 Data File : VN059852.D
 Acq On : 24 Jan 2020 17:51
 Operator : JC/MD
 Sample : PB126303ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 25 00:30:03 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	209695	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	319608	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	284098	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	113396	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	109932	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
35) Dibromofluoromethane	7.57	113	95448	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	10.08	98	374492	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
62) 4-Bromofluorobenzene	12.40	95	123620	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	

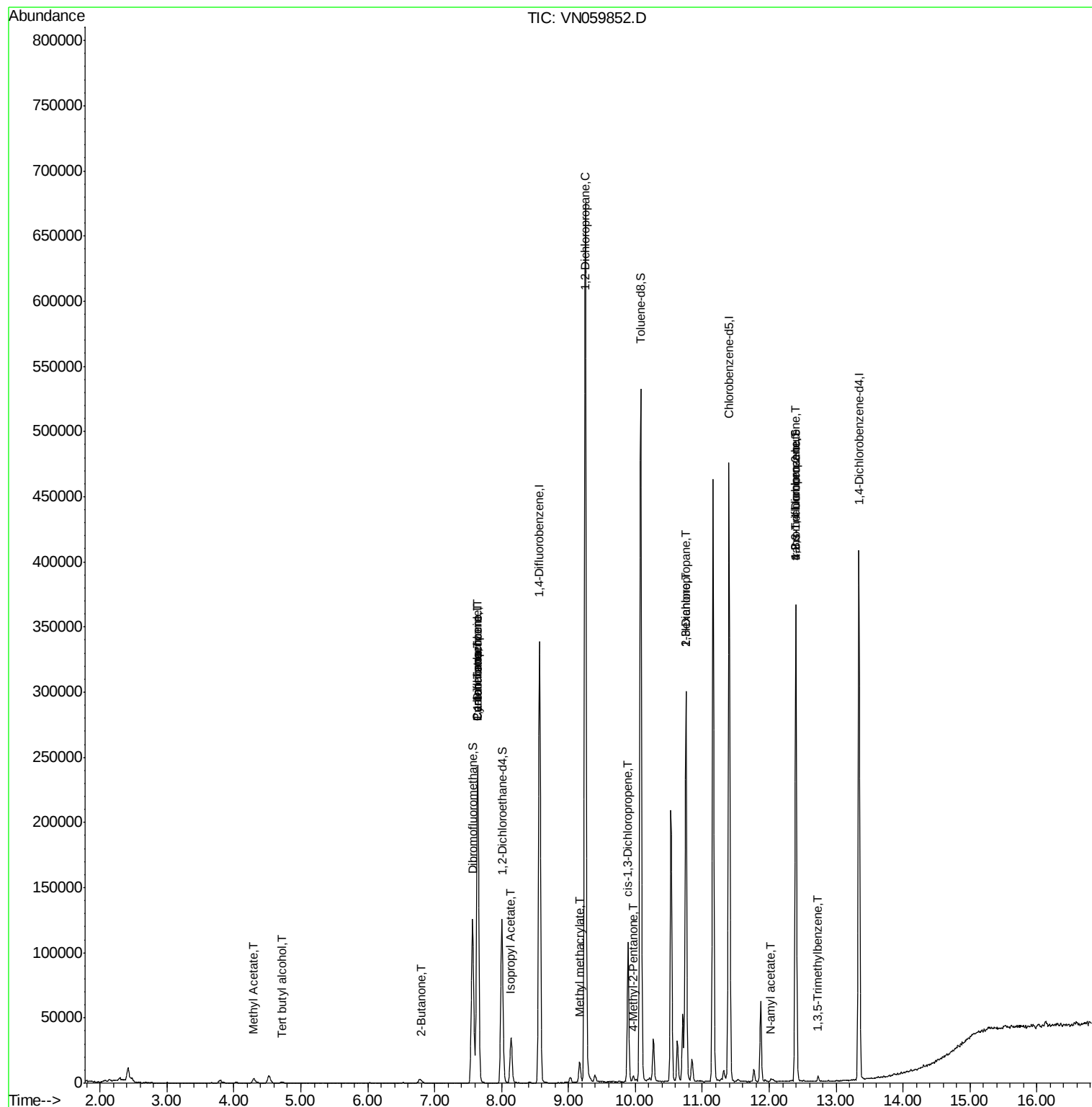
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	312	0.796	ug/l #	72
16) Acetone	3.79	43	3441	Below Cal		93
18) Methyl Acetate	4.29	43	6705	2.465	ug/l	100
20) Methylene Chloride	4.52	84	2035	Below Cal	#	84
25) 2-Butanone	6.81	43	992	0.752	ug/l #	50
31) Cyclohexane	7.64	56	3876	1.125	ug/l #	2
36) 1,1-Dichloropropene	7.64	75	14016	5.036	ug/l #	51
38) Carbon Tetrachloride	7.64	117	19153	6.326	ug/l #	15
43) Isopropyl Acetate	8.14	43	41606	9.266	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	712	0.347	ug/l #	44
48) Methyl methacrylate	9.16	41	2220	1.105	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2580	0.994	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	20006	5.832	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3234	0.981	ug/l #	42
59) 2-Hexanone	10.75	43	42213	22.076	ug/l #	55
74) N-amyl acetate	12.03	43	2088	0.647	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	61908	32.441	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2464	0.352	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	61908	69.667	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.13	75	29	Below Cal	#	6

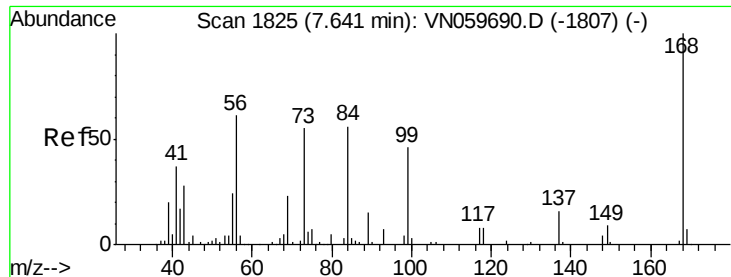
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN059852.D

Acq: 24 Jan 2020 17:51

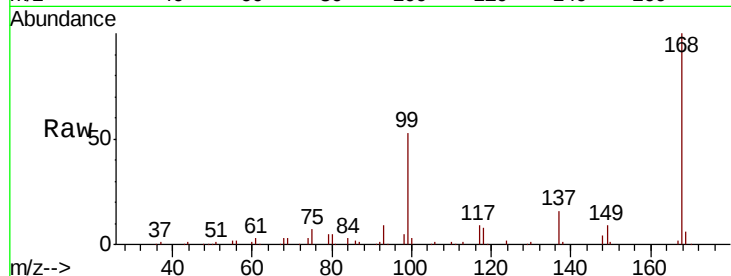
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 209695

Ion Ratio Lower Upper

168 100

99 52.8 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

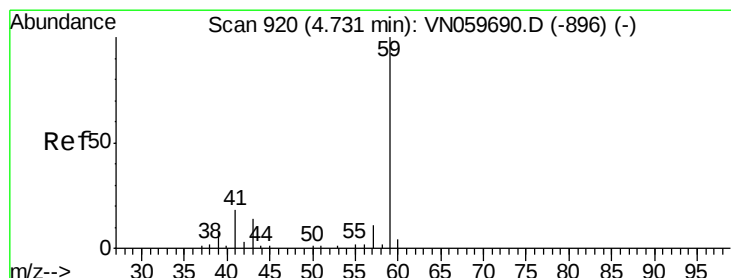
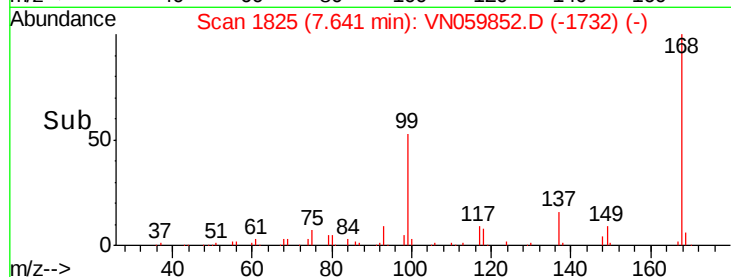
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.796 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN059852.D

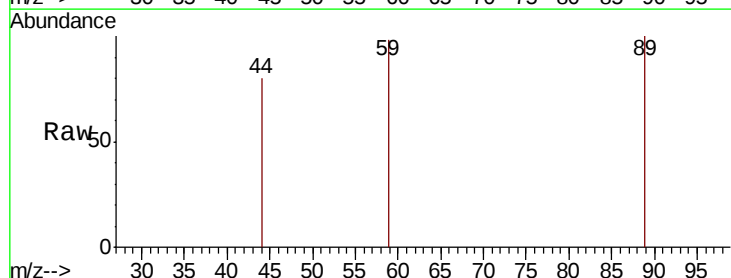
Acq: 24 Jan 2020 17:51

Tgt Ion: 59 Resp: 312

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

200

150

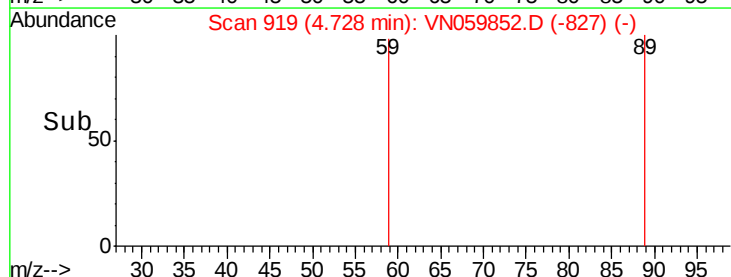
100

50

0

4.70 4.72 4.74 4.76

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Instrument :

MSVOA_N

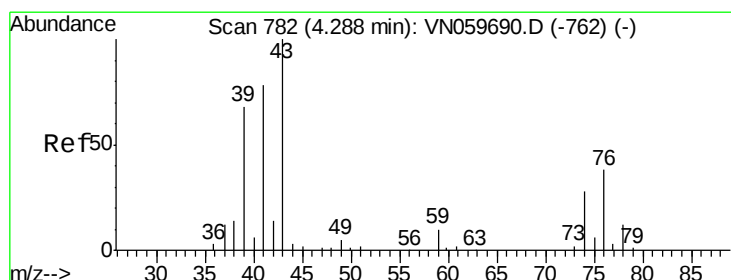
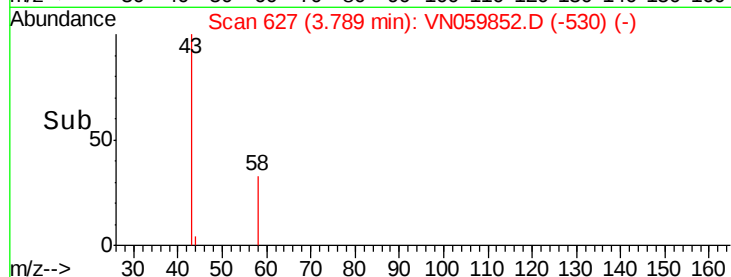
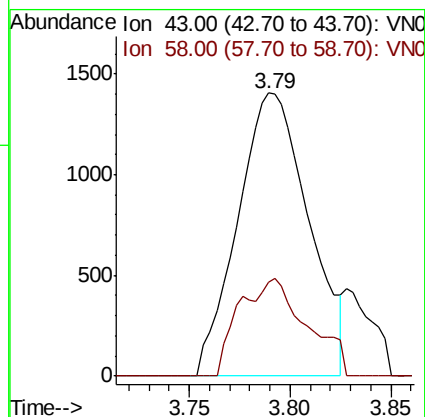
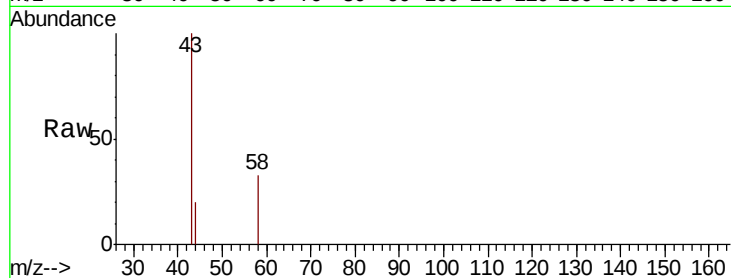
ClientSampleId :

Tot Ion: 43 Resp: 3441

Ion Ratio Lower Upper

43 100

58 33.1 23.6 35.4



#18

Methyl Acetate

Concen: 2.465 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN059852.D

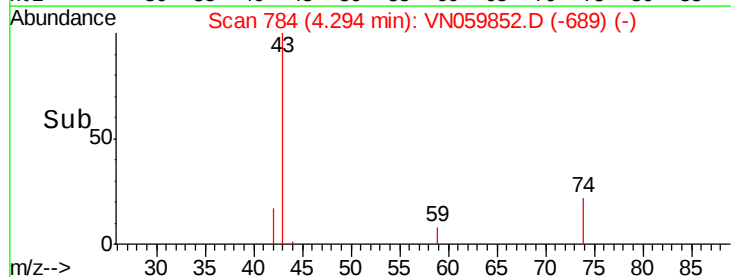
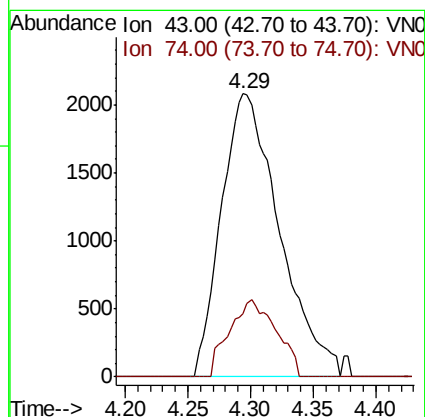
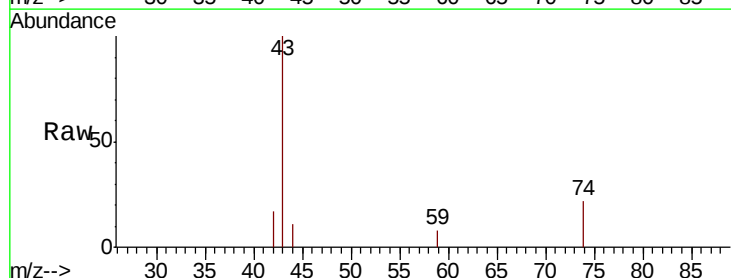
Acq: 24 Jan 2020 17:51

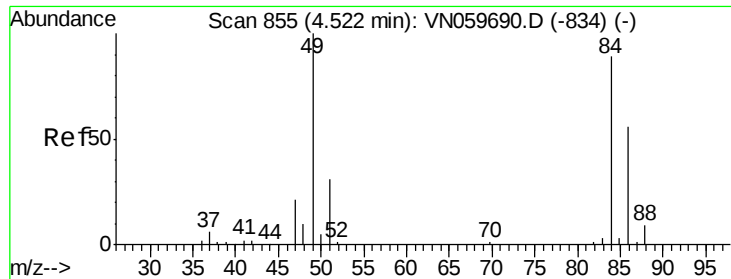
Tgt Ion: 43 Resp: 6705

Ion Ratio Lower Upper

43 100

74 22.0 17.5 26.3

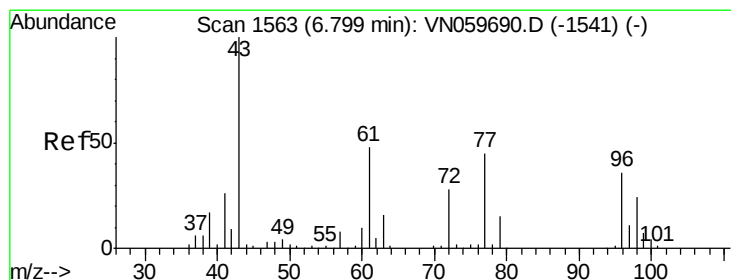
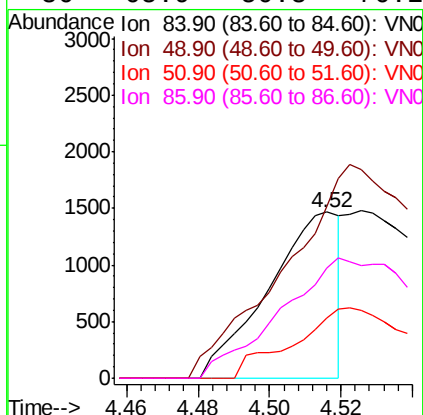
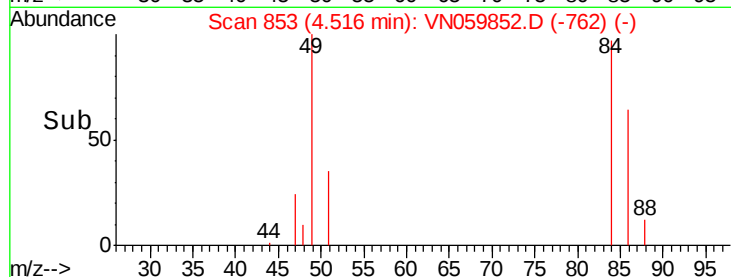
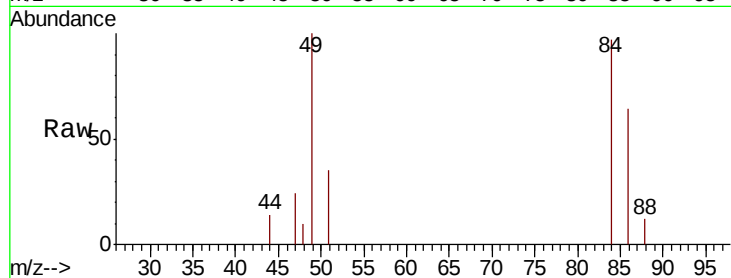




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN059852.D
Acq: 24 Jan 2020 17:51

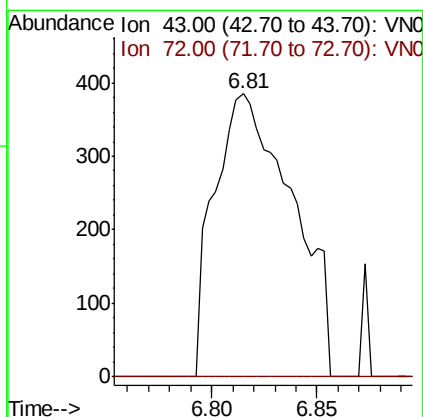
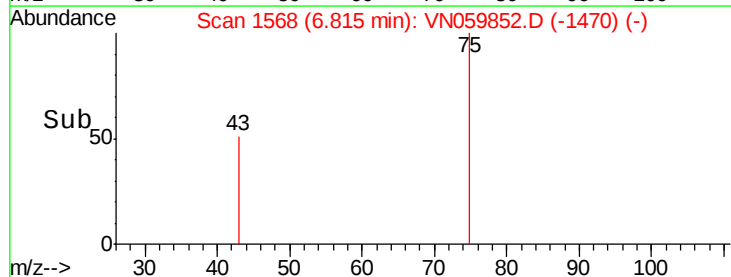
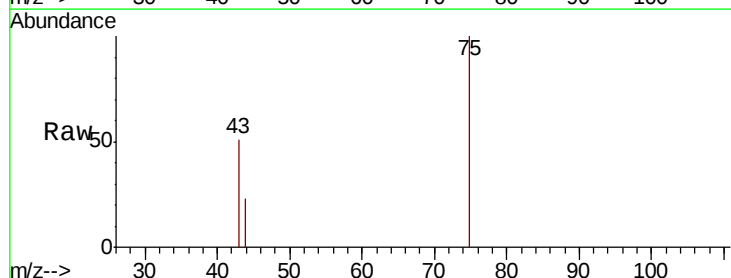
Instrument :
MSVOA_N
ClientSampled :

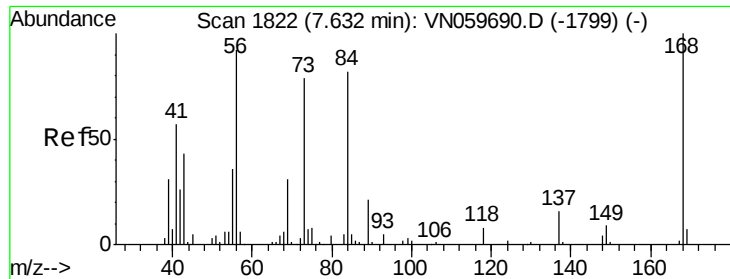
Tot Ion: 84 Resp: 2035
Ion Ratio Lower Upper
84 100
49 102.9 106.6 160.0#
51 36.2 31.9 47.9
86 65.9 50.8 76.2



#25
2-Butanone
Concen: 0.752 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN059852.D
Acq: 24 Jan 2020 17:51

Tgt Ion: 43 Resp: 992
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

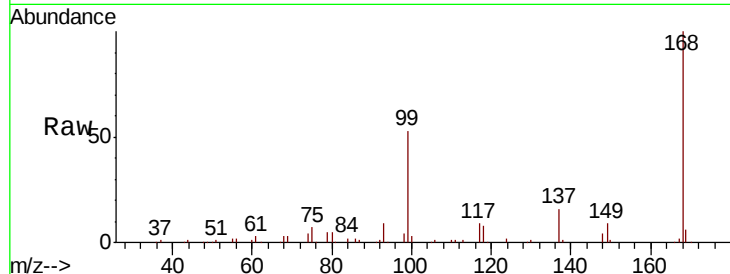




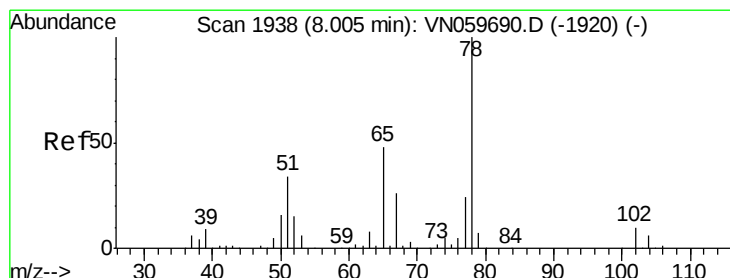
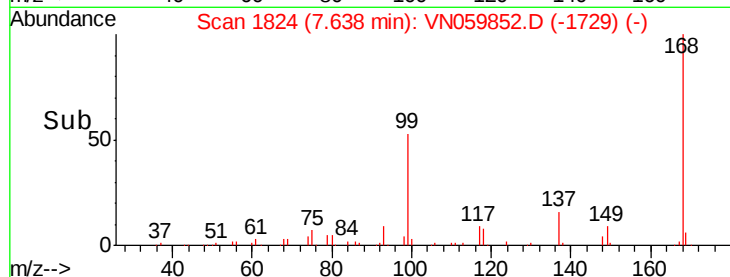
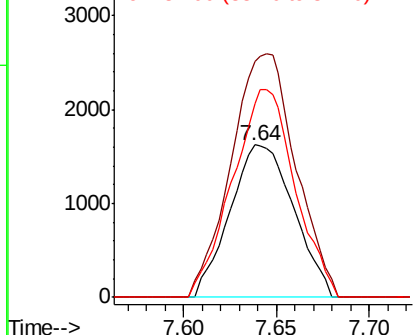
#31
Cyclohexane
Concen: 1.125 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059852.D
Acq: 24 Jan 2020 17:51

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3876
Ion Ratio Lower Upper
56 100
69 154.5 26.5 39.7#
84 126.8 65.3 97.9#

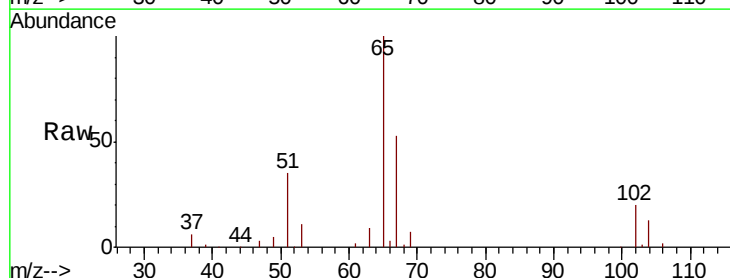


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

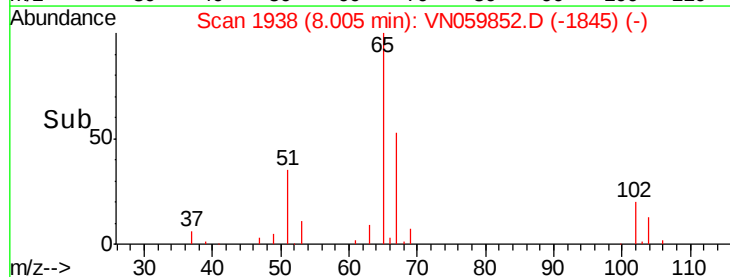
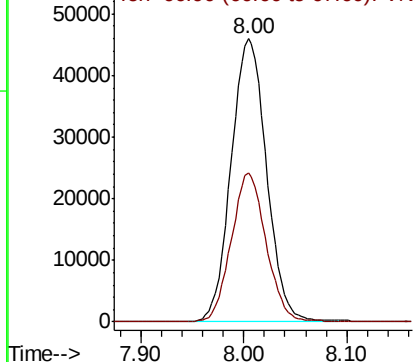


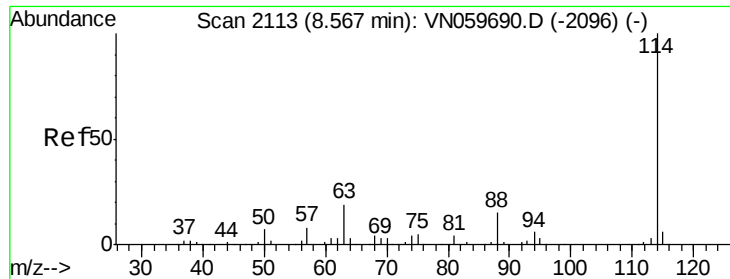
#33
1,2-Dichloroethane-d4
Concen: 47.207 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059852.D
Acq: 24 Jan 2020 17:51

Tgt Ion: 65 Resp: 109932
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.0



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

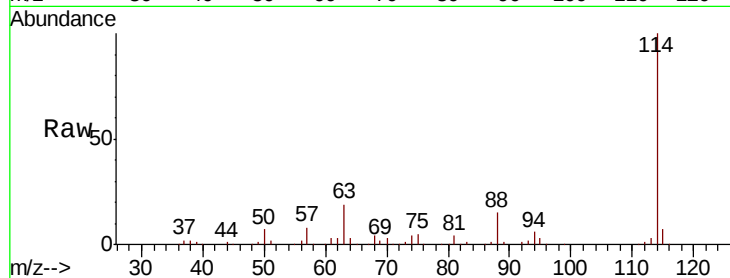




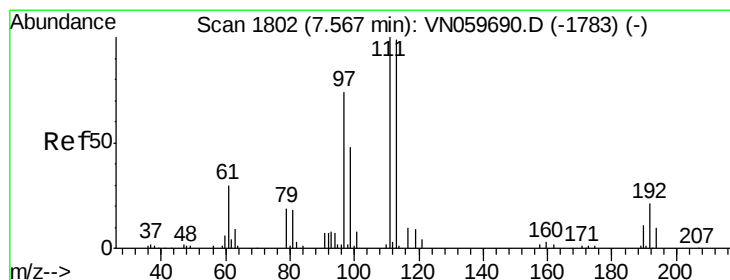
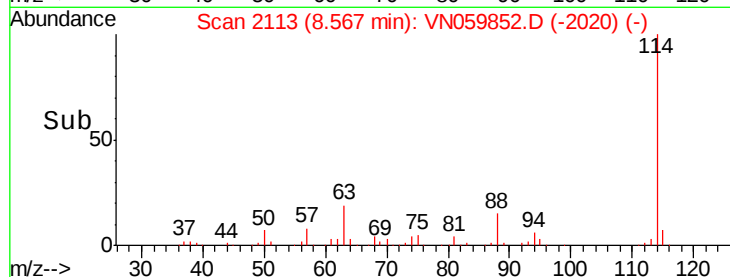
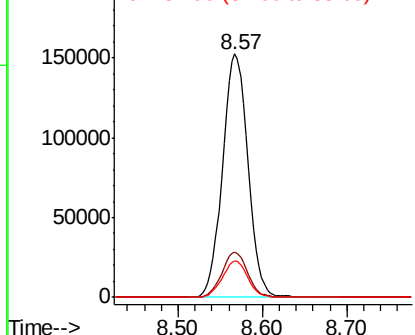
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059852.D
 Acq: 24 Jan 2020 17:51

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 319608
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 43.6
 88 15.1 0.0 31.4

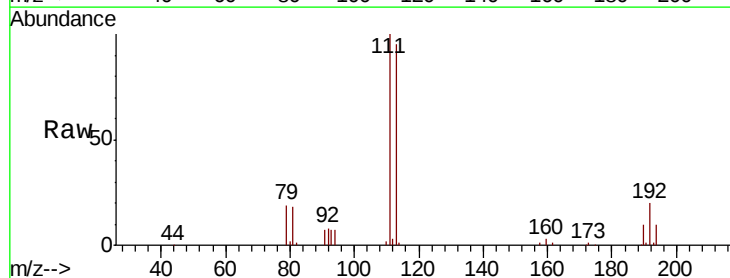


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

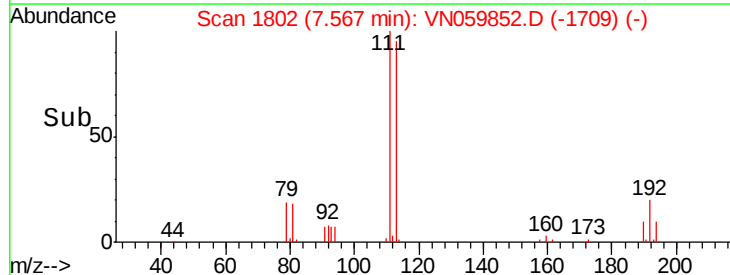
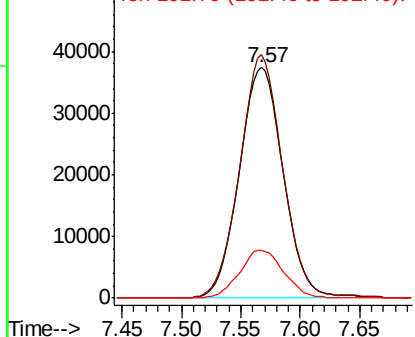


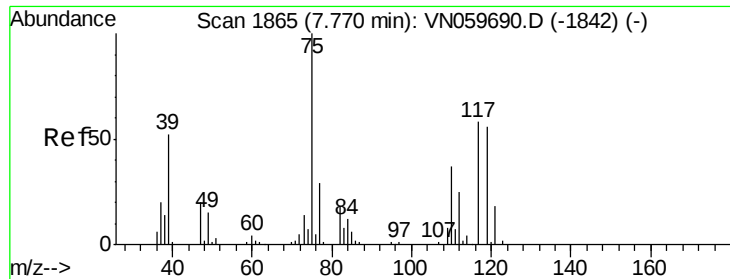
#35
 Dibromofluoromethane
 Concen: 50.079 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059852.D
 Acq: 24 Jan 2020 17:51

Tgt Ion:113 Resp: 95448
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.5 125.3
 192 20.8 15.4 23.2



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: 5.036 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Instrument :

MSVOA_N

ClientSampleId :

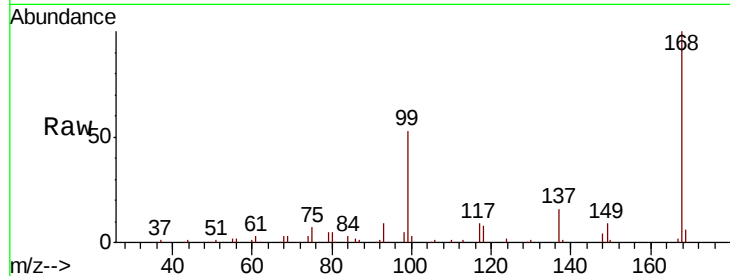
Tot Ion: 75 Resp: 14016

Ion Ratio Lower Upper

75 100

110 9.8 16.6 49.7#

77 0.0 25.1 37.7#

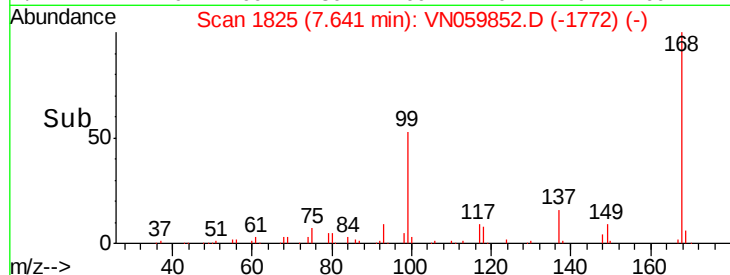


Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-1842) (-)

Ion 109.90 (109.60 to 110.60): VN059690.D (-1842) (-)

Ion 76.90 (76.60 to 77.60): VN059690.D (-1842) (-)

Time-->

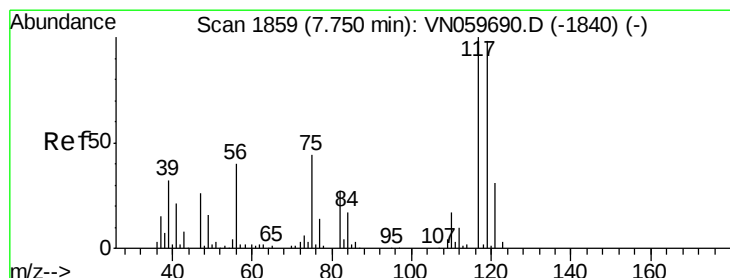


Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-1842) (-)

Ion 109.90 (109.60 to 110.60): VN059690.D (-1842) (-)

Ion 76.90 (76.60 to 77.60): VN059690.D (-1842) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.326 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

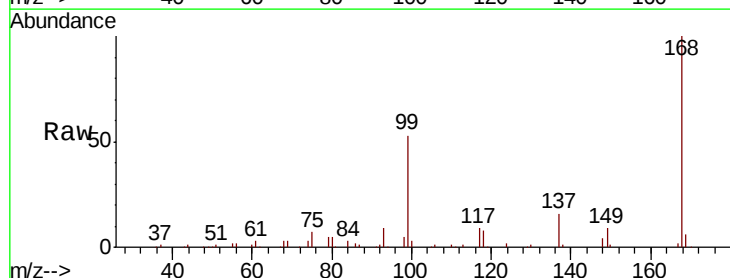
Tgt Ion: 117 Resp: 19153

Ion Ratio Lower Upper

117 100

119 4.2 76.5 114.7#

121 0.0 25.1 37.7#

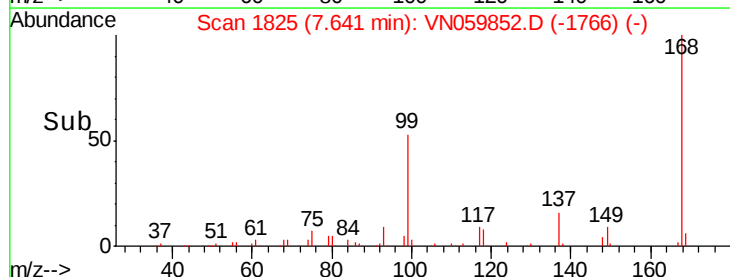


Abundance Ion 116.80 (116.50 to 117.50): VN059690.D (-1840) (-)

Ion 118.80 (118.50 to 119.50): VN059690.D (-1840) (-)

Ion 120.80 (120.50 to 121.50): VN059690.D (-1840) (-)

Time-->

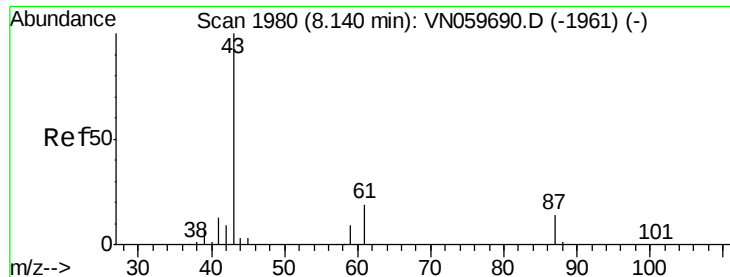


Abundance Ion 116.80 (116.50 to 117.50): VN059690.D (-1840) (-)

Ion 118.80 (118.50 to 119.50): VN059690.D (-1840) (-)

Ion 120.80 (120.50 to 121.50): VN059690.D (-1840) (-)

Time-->



#43

Isopropyl Acetate

Concen: 9.266 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Instrument :

MSVOA_N

ClientSampleId :

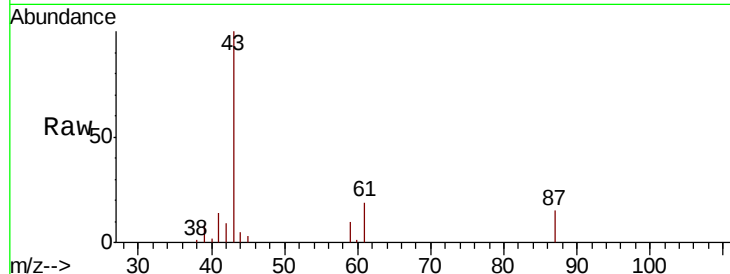
Tot Ion: 43 Resp: 41606

Ion Ratio Lower Upper

43 100

61 19.9 20.2 30.2#

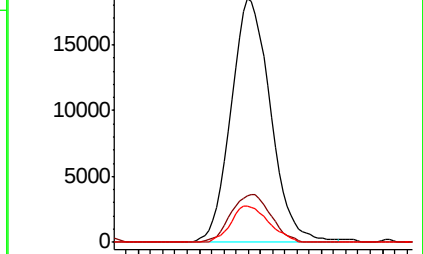
87 14.3 9.5 14.3



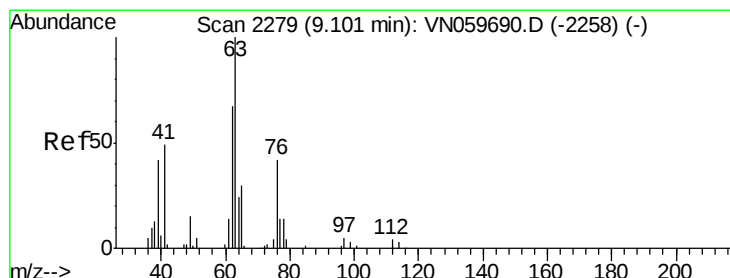
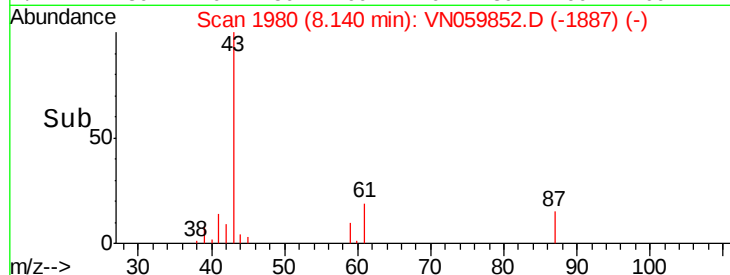
Abundance Ion 43.00 (42.70 to 43.70): VN059852.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN059852.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN059852.D (-1887) (-)



Time-->



#45

1,2-Dichloropropane

Concen: 0.347 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059852.D

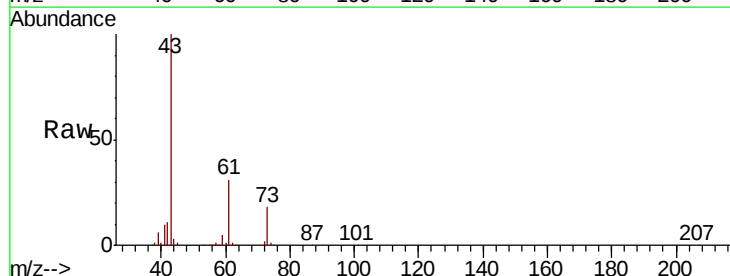
Acq: 24 Jan 2020 17:51

Tgt Ion: 63 Resp: 712

Ion Ratio Lower Upper

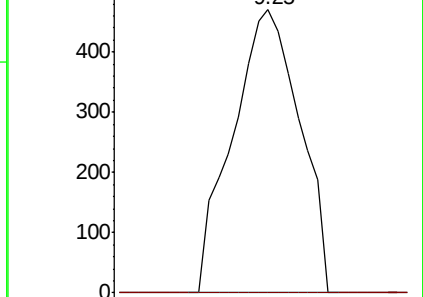
63 100

65 0.0 24.9 37.3#

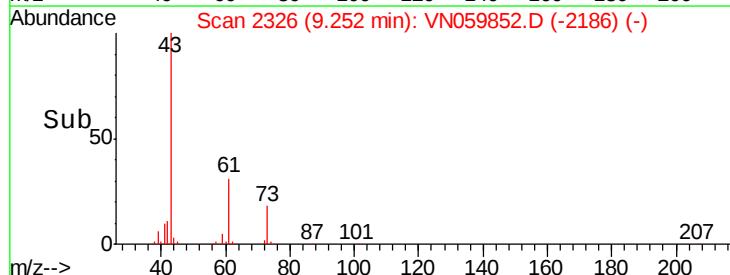


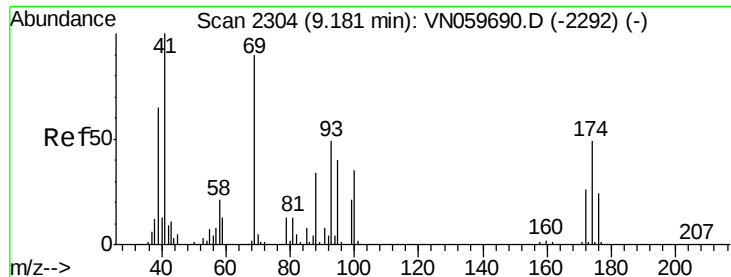
Abundance Ion 62.90 (62.60 to 63.60): VN059852.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN059852.D (-2186) (-)



Time-->

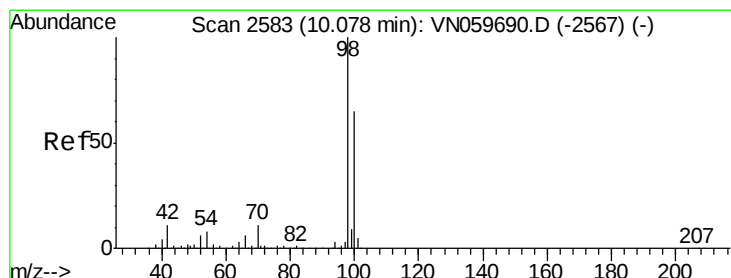
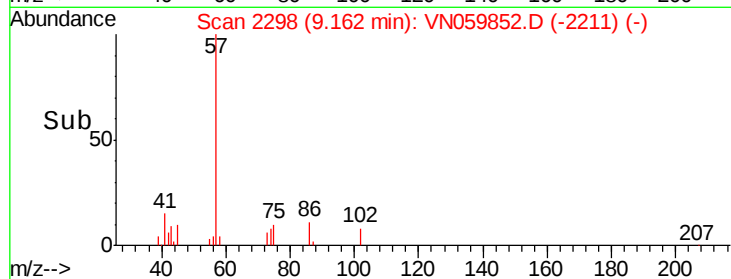
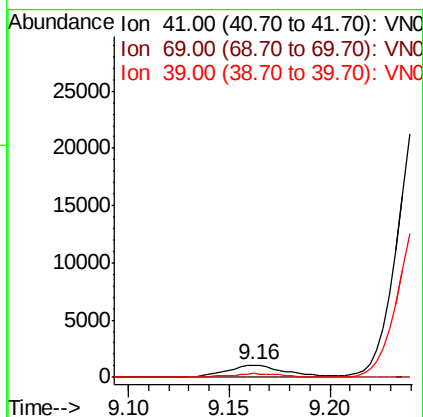
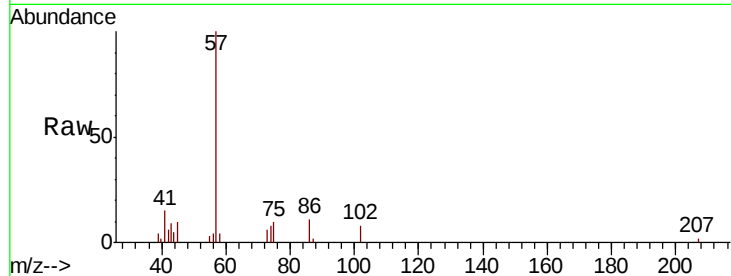




#48
Methvl methacrylate
Concen: 1.105 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059852.D
Acq: 24 Jan 2020 17:51

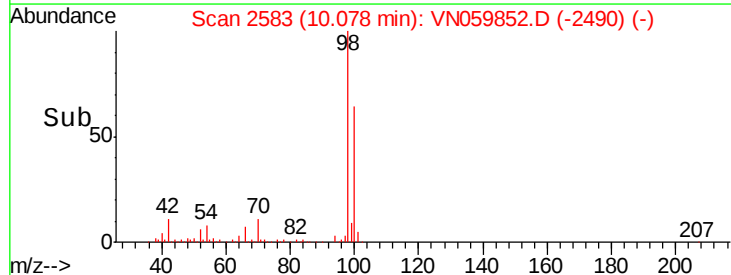
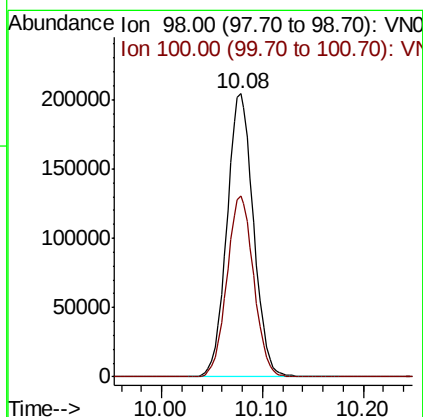
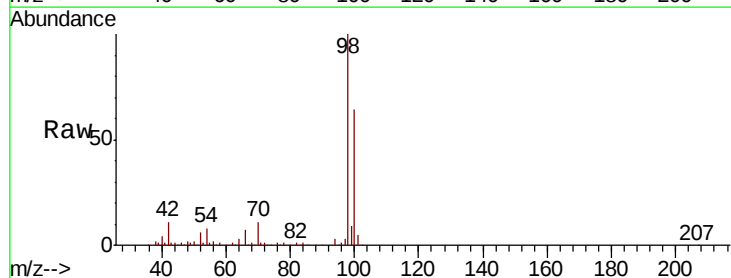
Instrument :
MSVOA_N
ClientSampled :

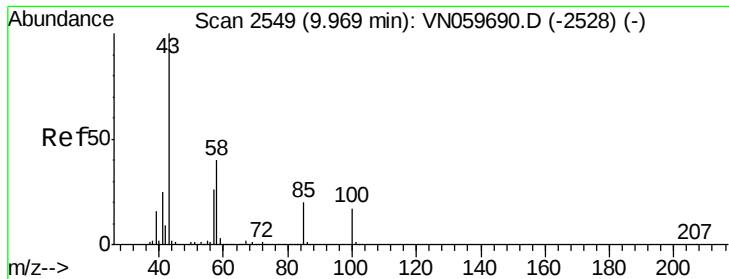
Tot Ion: 41 Resp: 2220
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 50.712 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059852.D
Acq: 24 Jan 2020 17:51

Tgt Ion: 98 Resp: 374492
Ion Ratio Lower Upper
98 100
100 64.6 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 0.994 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Instrument :

MSVOA_N

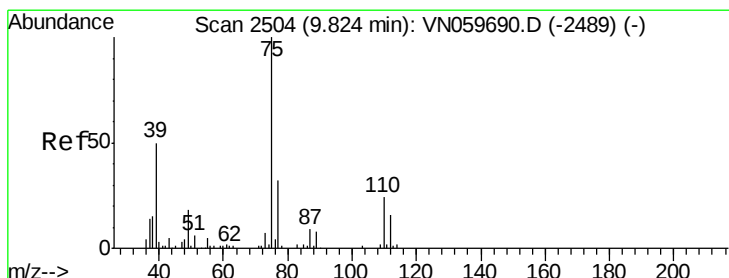
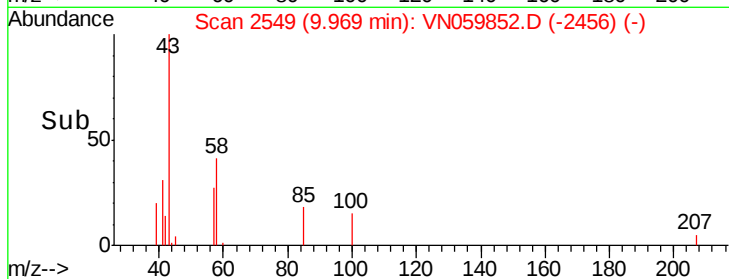
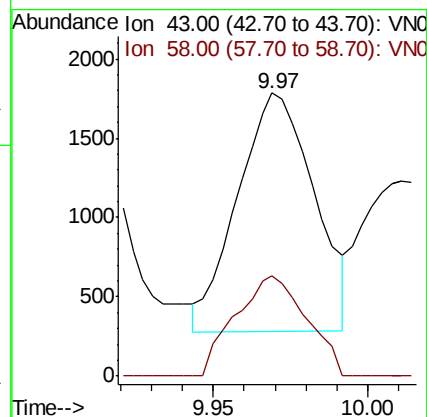
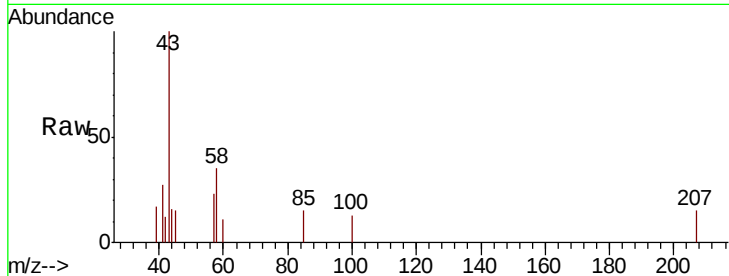
ClientSampled :

Tot Ion: 43 Resp: 2580

Ion Ratio Lower Upper

43 100

58 39.1 29.8 44.8



#54

cis-1,3-Dichloropropene

Concen: 5.832 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

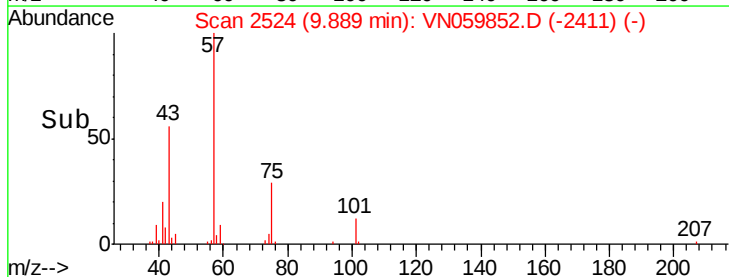
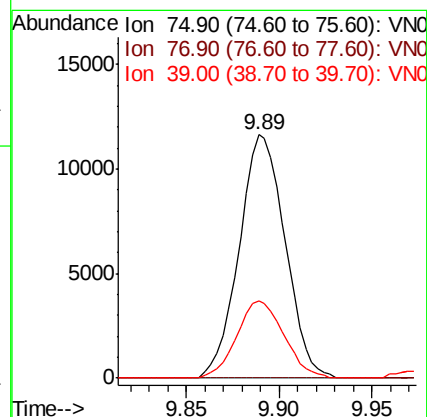
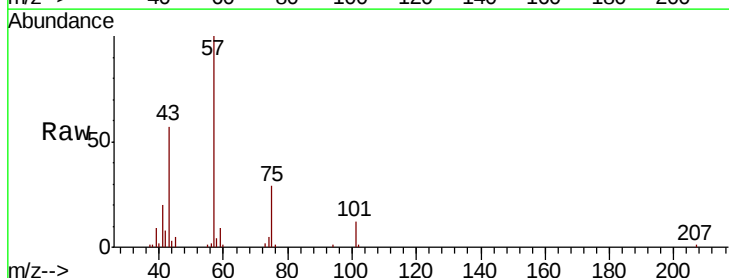
Tgt Ion: 75 Resp: 20006

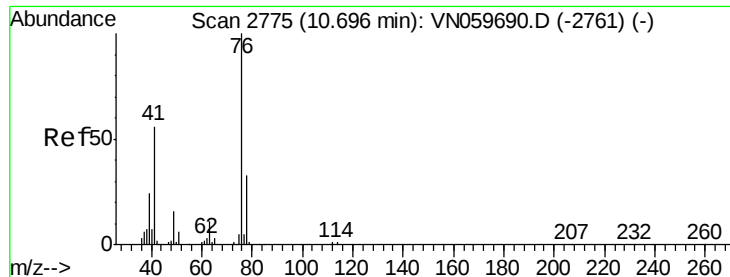
Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 31.9 46.1 69.1#





#57

1,3-Dichloropropane

Concen: 0.981 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Instrument :

MSVOA_N

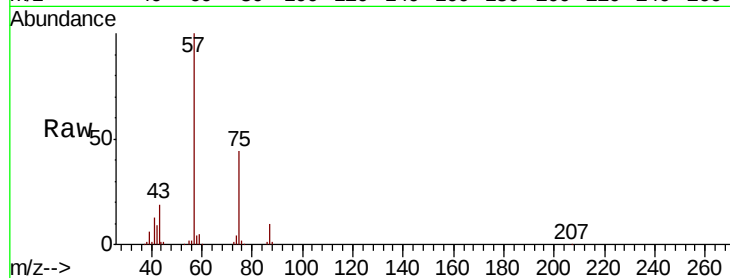
ClientSampled :

Tot Ion: 76 Resp: 3234

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

2500

2000

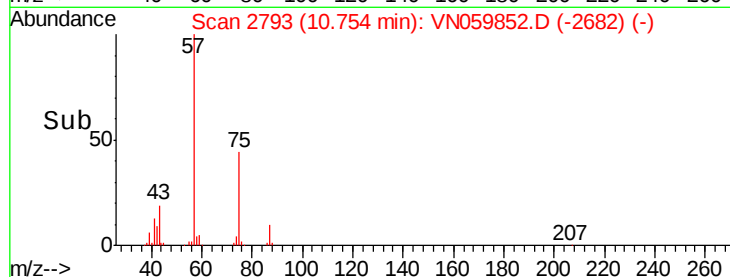
1500

1000

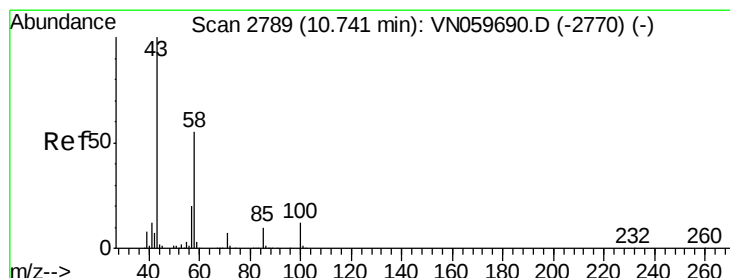
500

0

10.70 10.75 10.80



Time-->



#59

2-Hexanone

Concen: 22.076 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059852.D

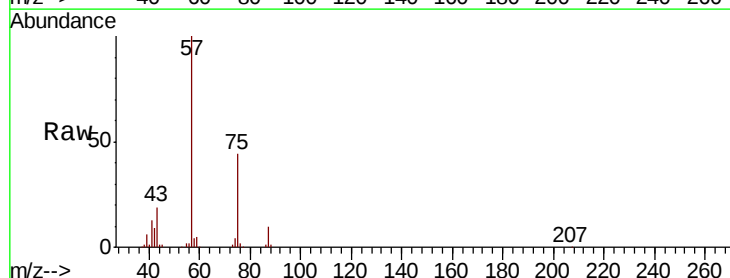
Acq: 24 Jan 2020 17:51

Tgt Ion: 43 Resp: 42213

Ion Ratio Lower Upper

43 100

58 19.7 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

25000

20000

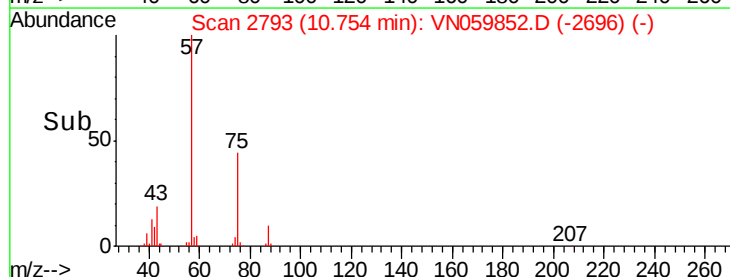
15000

10000

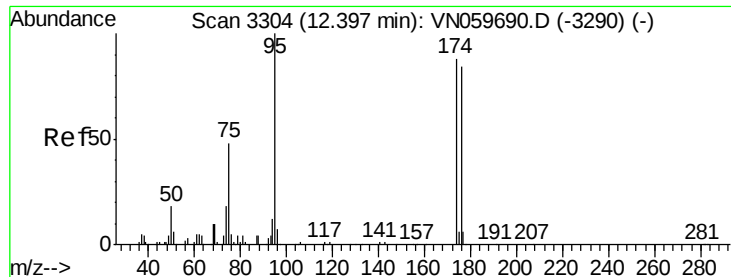
5000

0

10.70 10.75 10.80



Time-->



#62

4-Bromofluorobenzene

Concen: 46.436 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Instrument :

MSVOA_N

ClientSampled :

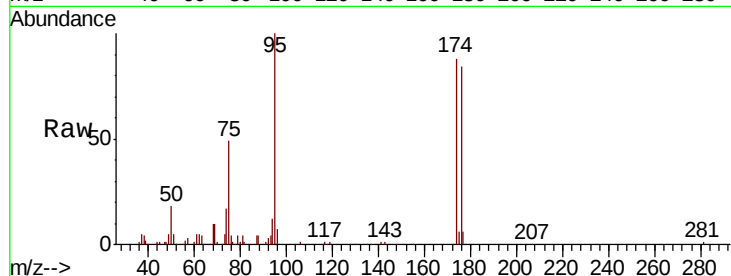
Tot Ion: 95 Resp: 123620

Ion Ratio Lower Upper

95 100

174 88.5 0.0 151.4

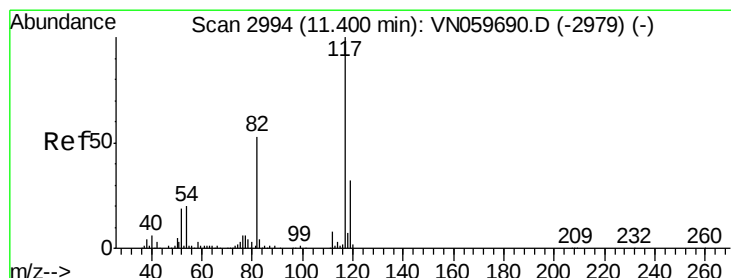
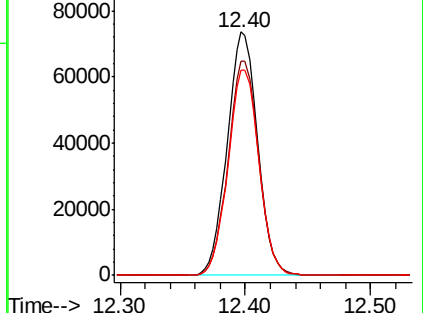
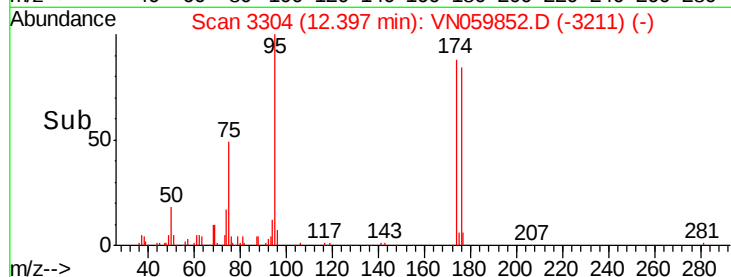
176 85.8 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059852.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059852.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059852.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

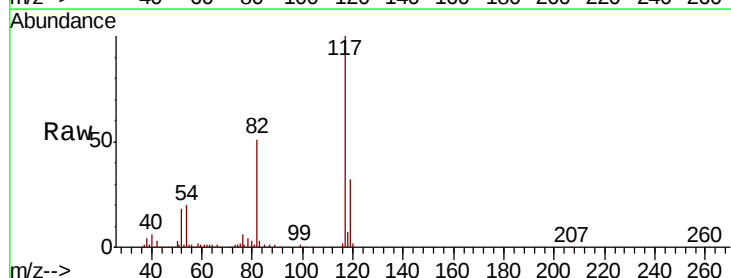
Tgt Ion: 117 Resp: 284098

Ion Ratio Lower Upper

117 100

82 51.3 45.9 68.9

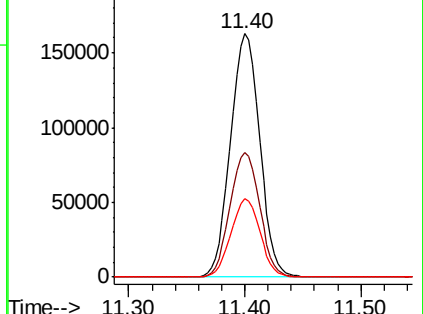
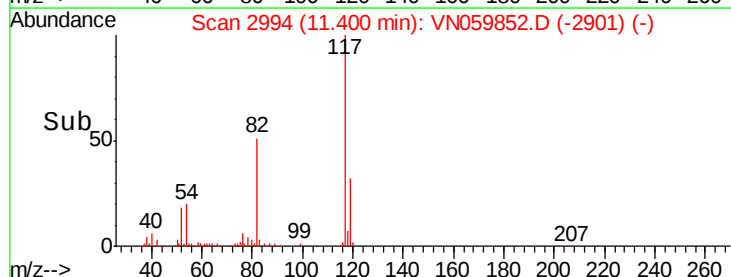
119 32.2 25.5 38.3

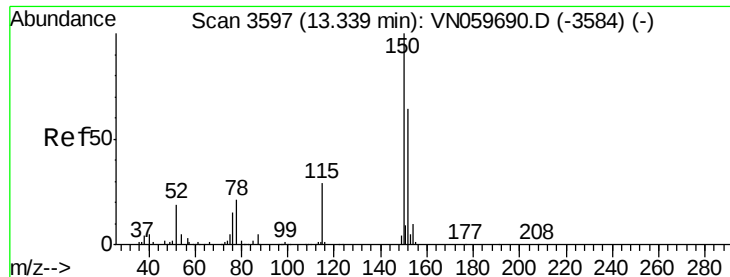


Abundance Ion 116.90 (116.60 to 117.60): VN059852.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059852.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059852.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Instrument :

MSVOA_N

ClientSampleId :

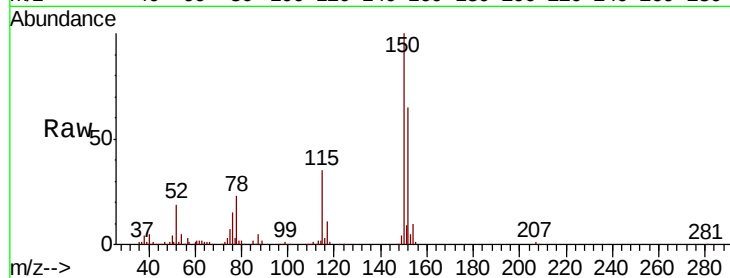
Tot Ion:152 Resp: 113396

Ion Ratio Lower Upper

152 100

115 56.5 30.3 90.9

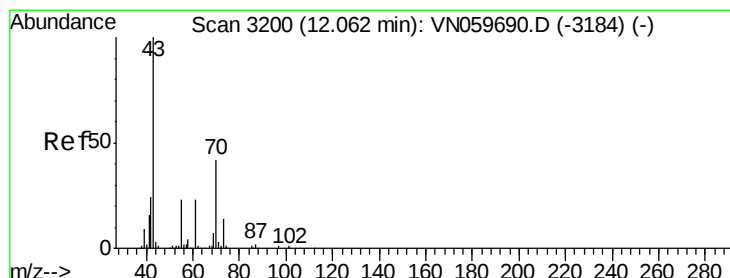
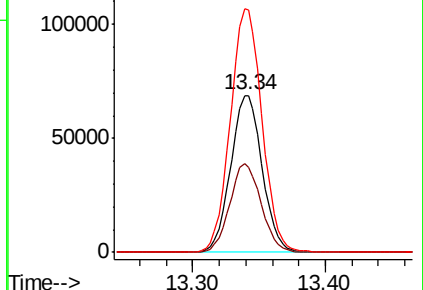
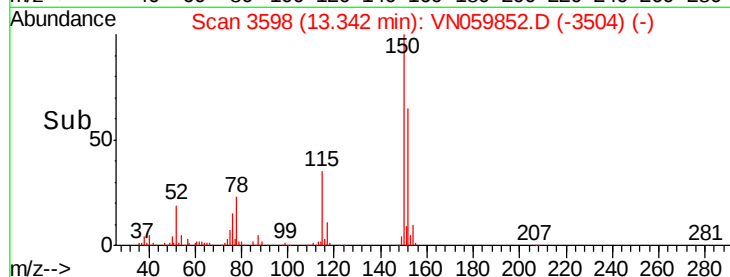
150 156.2 0.0 345.2



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: 0.647 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Tgt Ion: 43 Resp: 2088

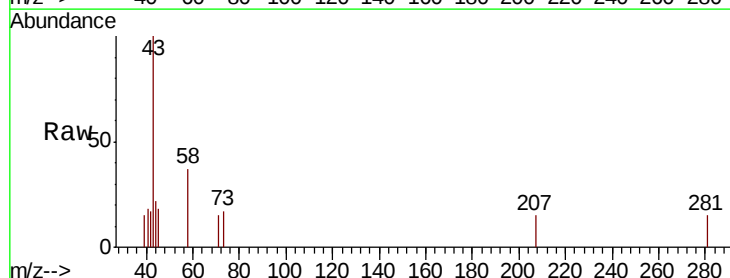
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

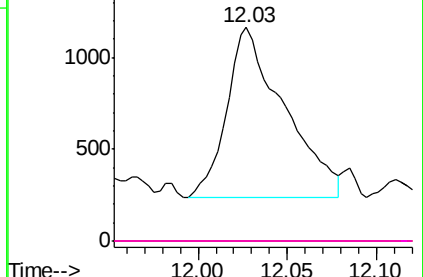
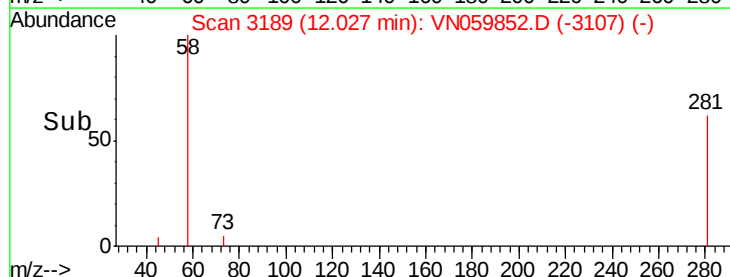


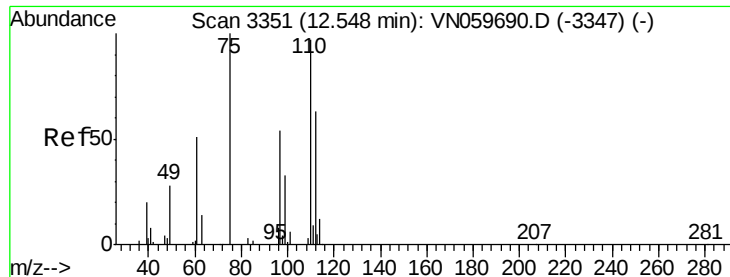
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 32.441 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Instrument :

MSVOA_N

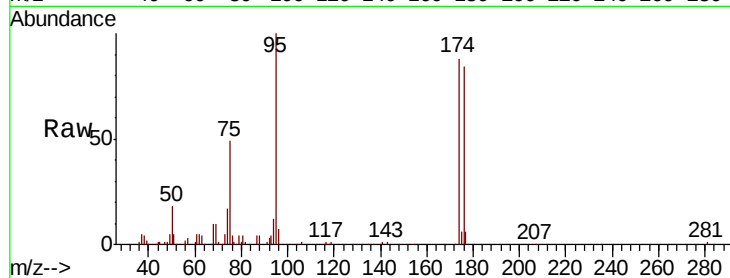
ClientSampled :

Tot Ion: 75 Resp: 61908

Ion Ratio Lower Upper

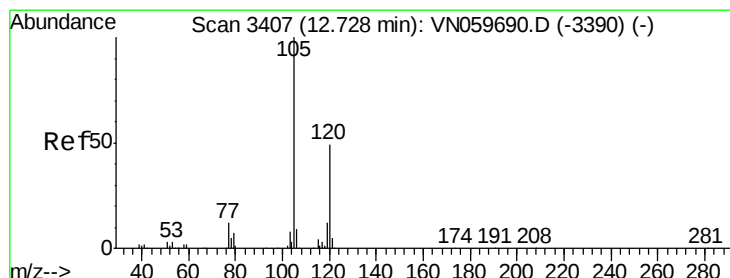
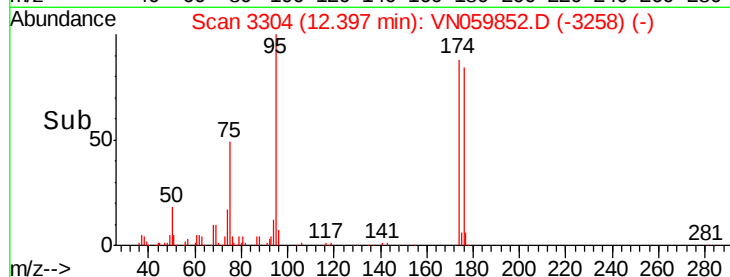
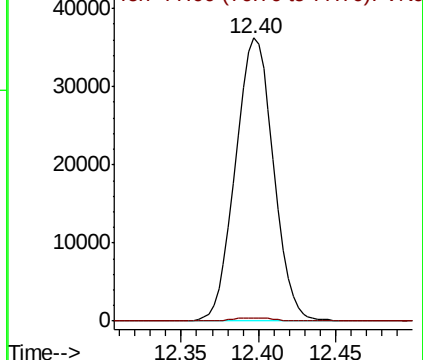
75 100

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



#80

1,3,5-Trimethylbenzene

Concen: 0.352 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059852.D

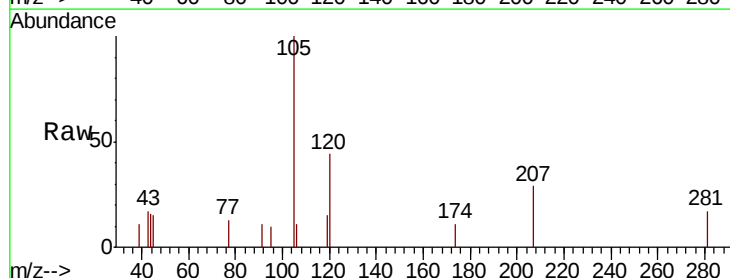
Acq: 24 Jan 2020 17:51

Tgt Ion: 105 Resp: 2464

Ion Ratio Lower Upper

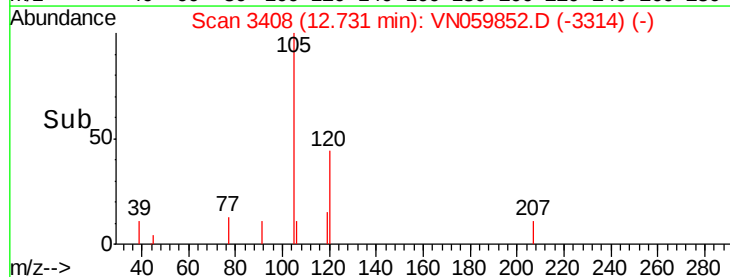
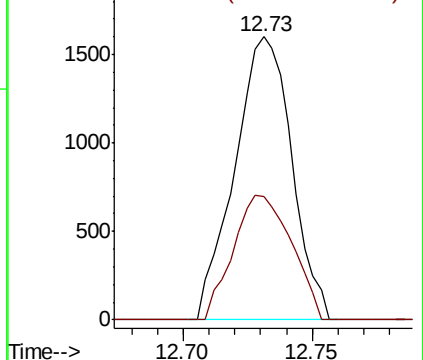
105 100

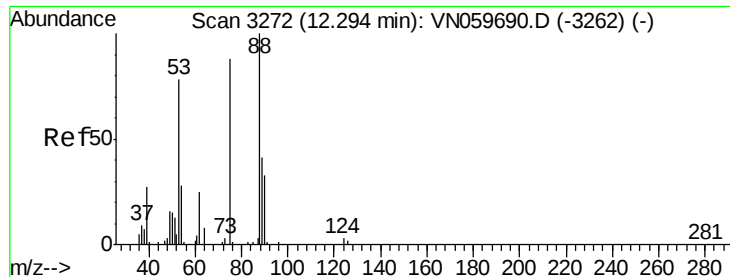
120 45.0 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 69.667 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

Instrument :

MSVOA_N

ClientSampled :

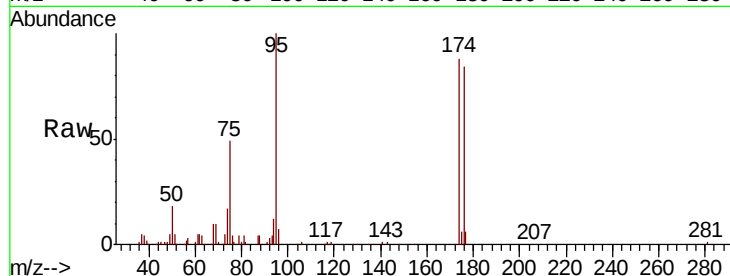
Tot Ion: 75 Resp: 61908

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

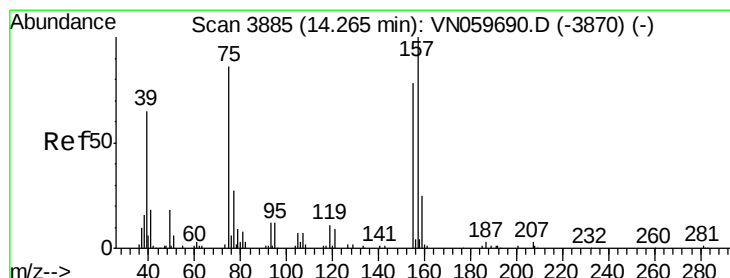
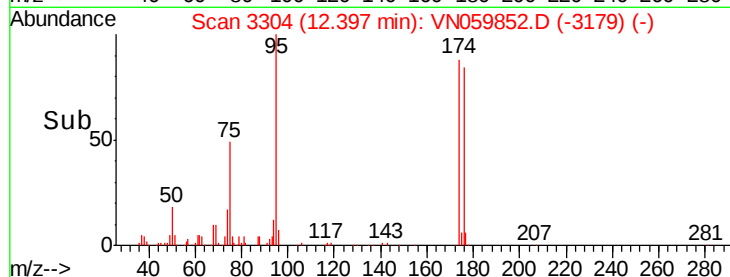
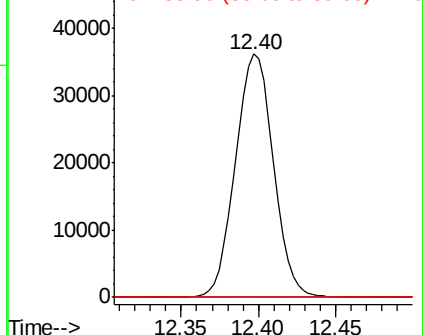
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059852.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN059852.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN059852.D (-3179) (-)



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.13 min Scan# 3844

Delta R.T. -0.13 min

Lab File: VN059852.D

Acq: 24 Jan 2020 17:51

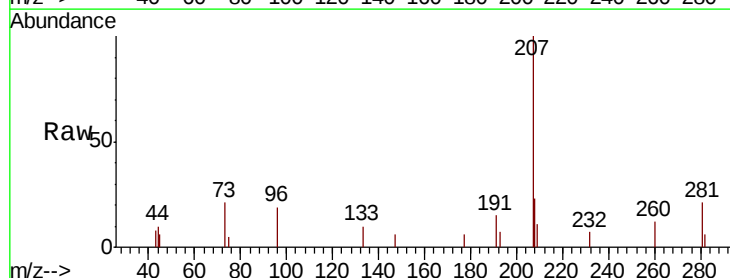
Tgt Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059852.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059852.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059852.D (-3791) (-)

