

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN070120\
 Data File : VN062290.D
 Acq On : 1 Jul 2020 14:29
 Operator : JC/MD
 Sample : L3129-09ME
 Misc : 5.08g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11982ME

Quant Time: Jul 01 15:49:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	191001	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	375355	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	357082	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	141422	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.98	65	153147	57.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.28%	
35) Dibromofluoromethane	7.54	113	118541	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
50) Toluene-d8	10.06	98	480790	49.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.90%	
62) 4-Bromofluorobenzene	12.38	95	155663	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	

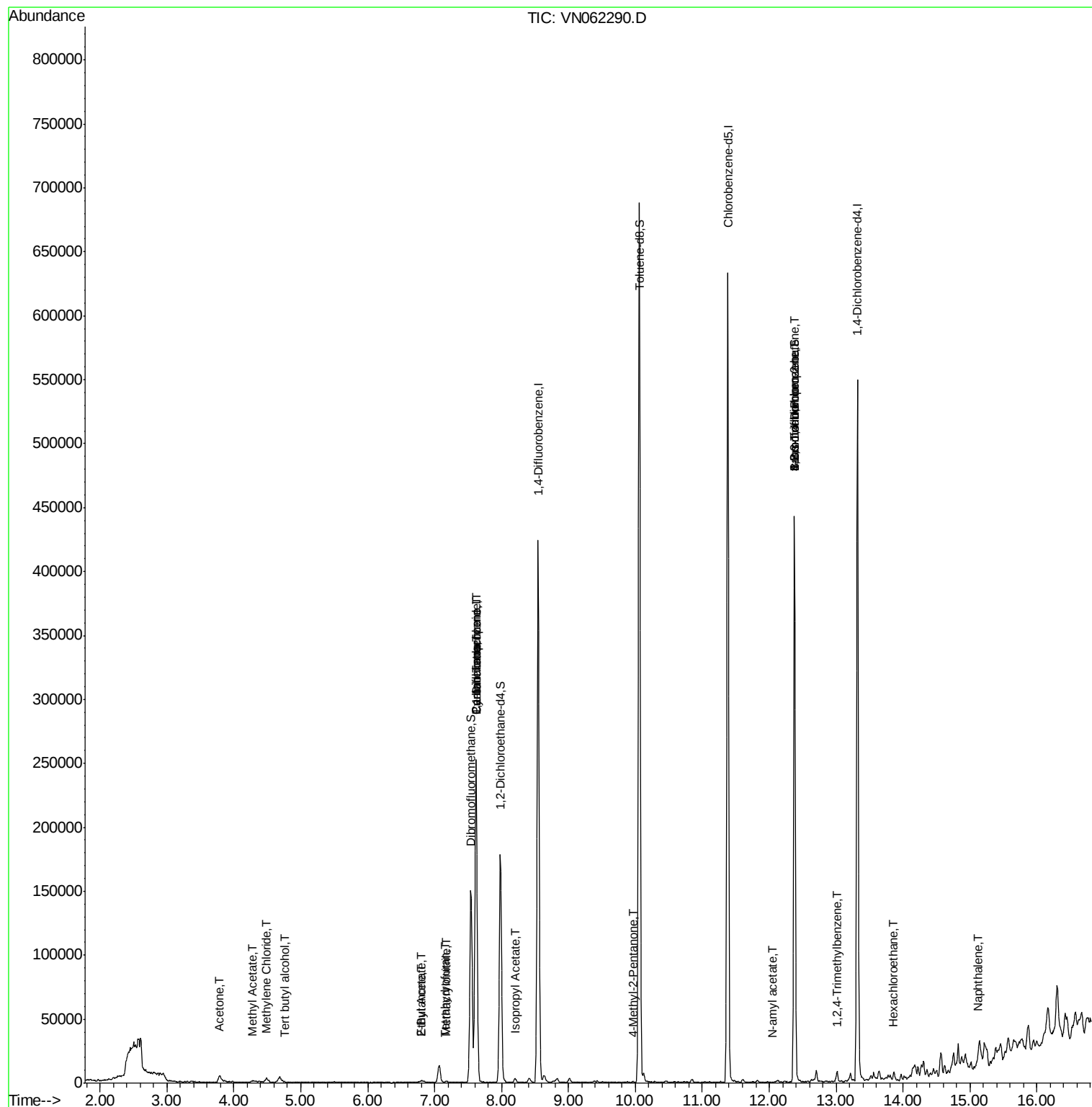
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	167	Below Cal	#	41
11) Tert butyl alcohol	4.77	59	168	0.437	ug/l #	72
16) Acetone	3.79	43	10188	8.191	ug/l #	86
18) Methyl Acetate	4.28	43	1258	0.590	ug/l #	79
20) Methylene Chloride	4.49	84	2889	0.962	ug/l #	89
25) 2-Butanone	6.80	43	2679	2.045	ug/l #	79
29) Tetrahydrofuran	7.16	42	190	0.221	ug/l #	51
31) Cyclohexane	7.61	56	4971	1.342	ug/l #	25
36) 1,1-Dichloropropene	7.62	75	17159	4.548	ug/l #	48
37) Ethyl Acetate	6.80	43	2679	0.858	ug/l #	66
38) Carbon Tetrachloride	7.62	117	20200	5.679	ug/l #	15
41) Methacrylonitrile	7.17	41	317	0.219	ug/l #	14
43) Isopropyl Acetate	8.20	43	1357	0.266	ug/l #	58
51) 4-Methyl-2-Pentanone	9.95	43	638	0.214	ug/l #	33
71) Bromoform	12.38	173	1459	0.757	ug/l #	1
74) N-amyl acetate	12.05	43	109	3.368	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	79060	23.748	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	79060	69.352	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.01	105	4767	0.538	ug/l	100
90) Hexachloroethane	13.86	117	507	0.294	ug/l #	17
95) Naphthalene	15.11	128	5885	4.798	ug/l	96

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

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QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.01 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

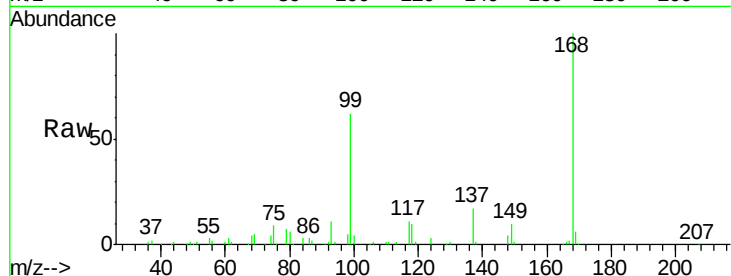
72-11982ME

Tgt Ion:168 Resp: 191001

Ion Ratio Lower Upper

168 100

99 62.1 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

80000

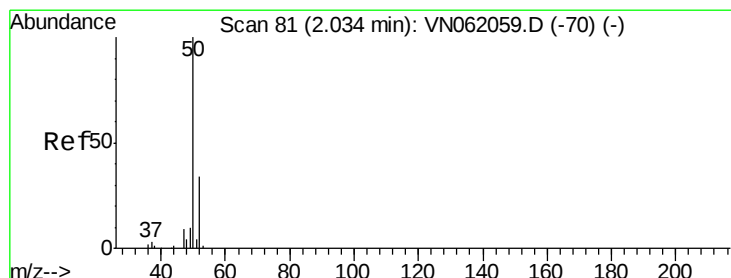
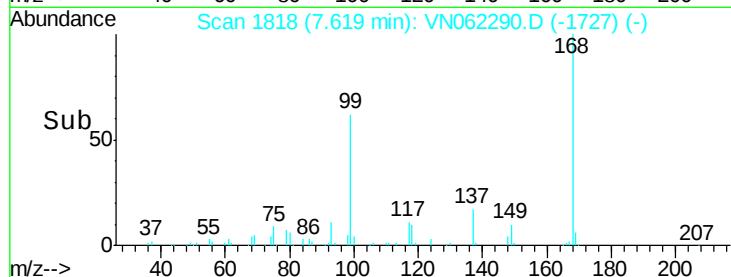
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062290.D

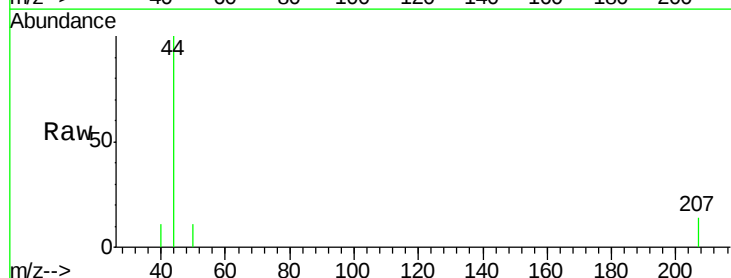
Acq: 1 Jul 2020 14:29

Tgt Ion: 50 Resp: 167

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

200

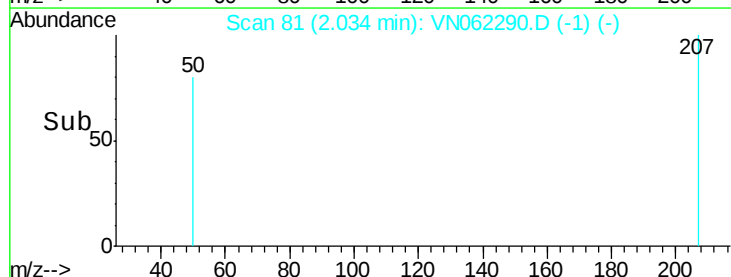
150

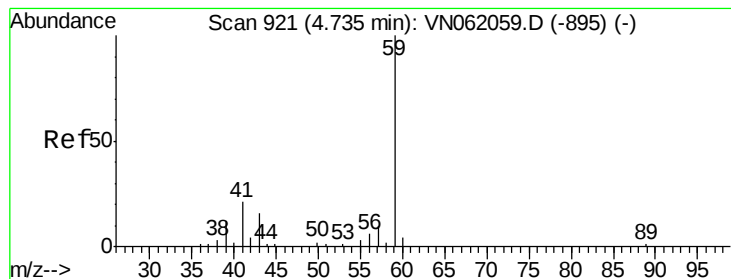
100

50

0

Time--> 2.02 2.03 2.04 2.05



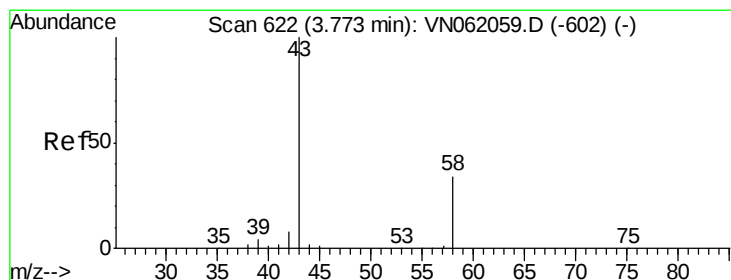
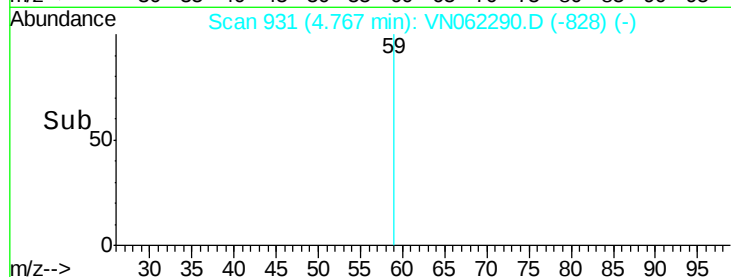
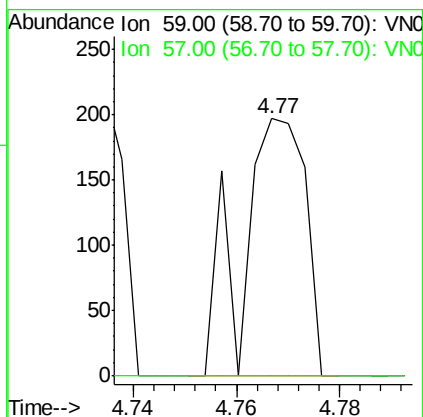
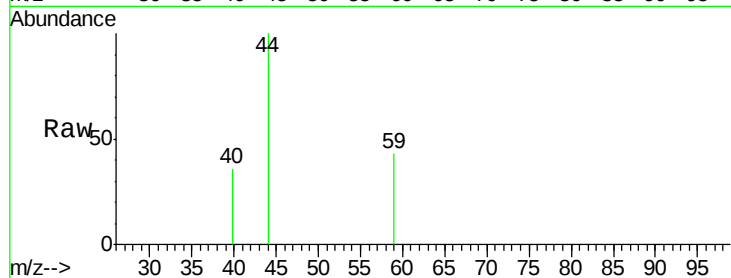


#11

Tert butyl alcohol
 Concen: 0.437 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. 0.03 min
 Lab File: VN062290.D
 Acq: 1 Jul 2020 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11982ME

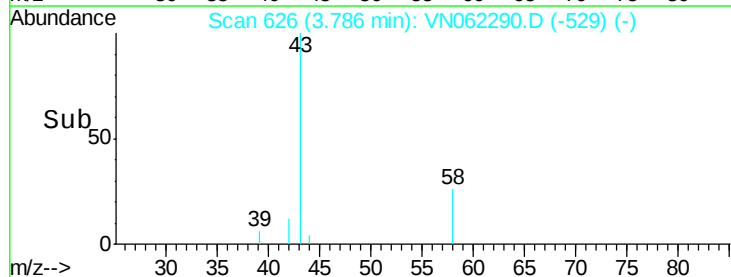
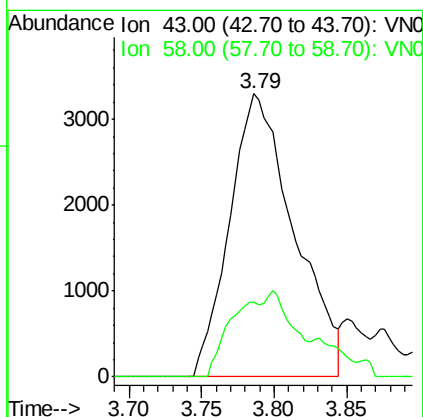
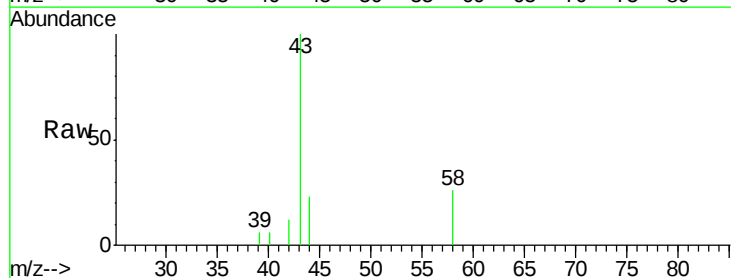
Tgt Ion: 59 Resp: 168
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#



#16

Acetone
 Concen: 8.191 ug/l
 RT: 3.79 min Scan# 626
 Delta R.T. 0.01 min
 Lab File: VN062290.D
 Acq: 1 Jul 2020 14:29

Tgt Ion: 43 Resp: 10188
 Ion Ratio Lower Upper
 43 100
 58 26.4 27.5 41.3#

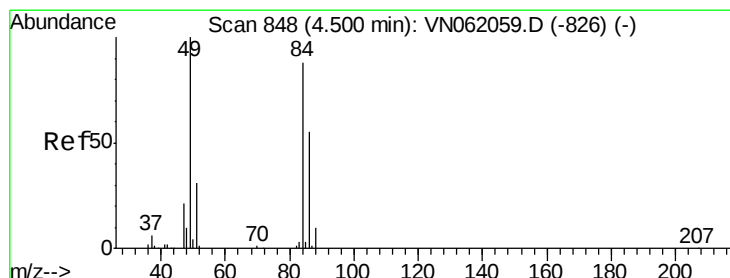
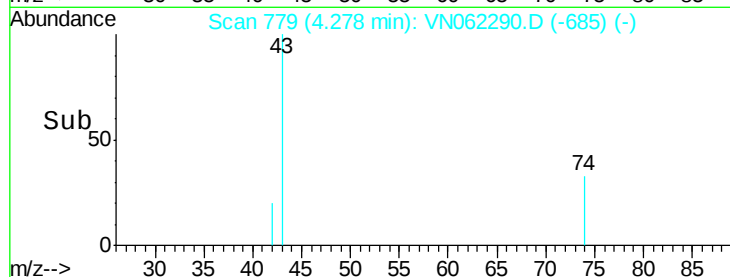
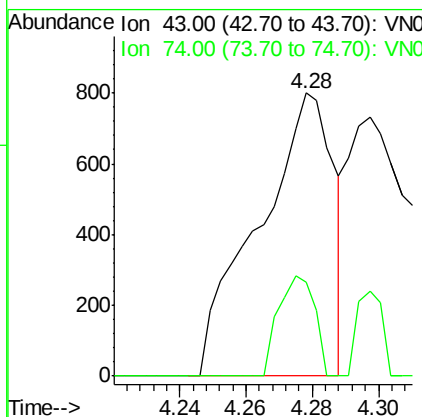
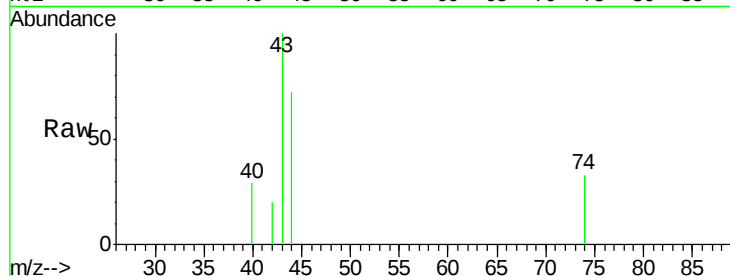




#18
Methyl Acetate
Concen: 0.590 ug/l
RT: 4.28 min Scan# 779
Delta R.T. 0.00 min
Lab File: VN062290.D
Acq: 1 Jul 2020 14:29

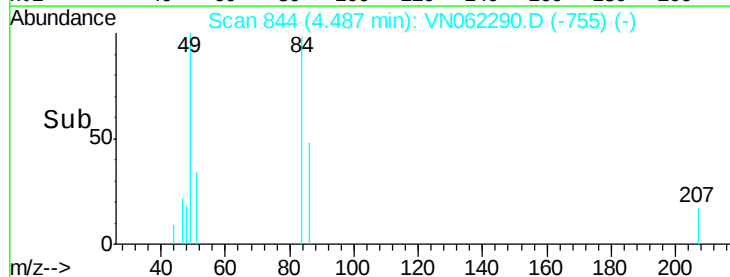
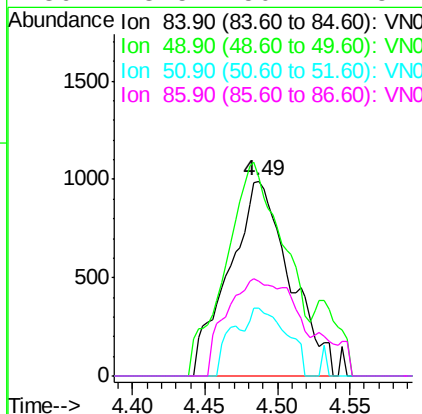
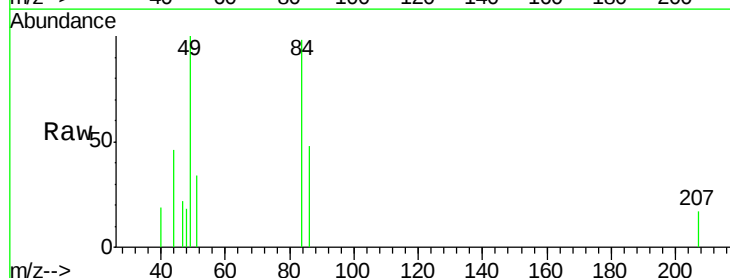
Instrument :
MSVOA_N
ClientSampled :
72-11982ME

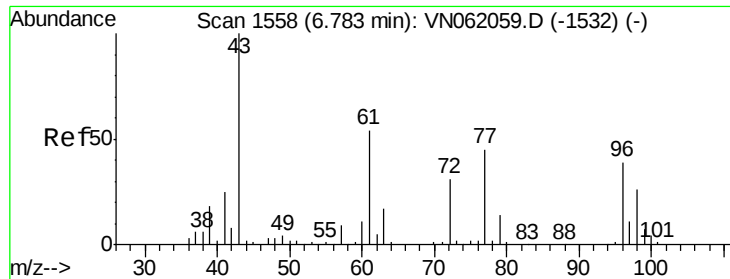
Tgt Ion: 43 Resp: 1258
Ion Ratio Lower Upper
43 100
74 17.3 22.9 34.3#



#20
Methylene Chloride
Concen: 0.962 ug/l
RT: 4.49 min Scan# 844
Delta R.T. -0.01 min
Lab File: VN062290.D
Acq: 1 Jul 2020 14:29

Tgt Ion: 84 Resp: 2889
Ion Ratio Lower Upper
84 100
49 101.6 90.6 136.0
51 34.9 27.8 41.8
86 48.5 50.1 75.1#

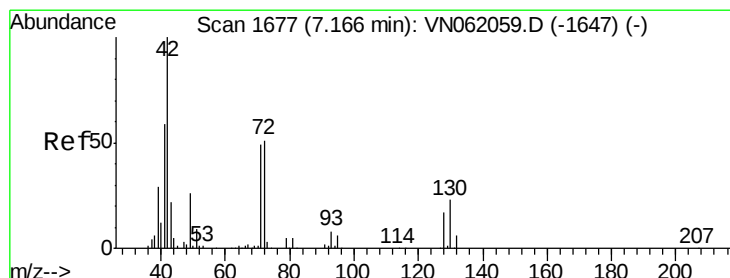
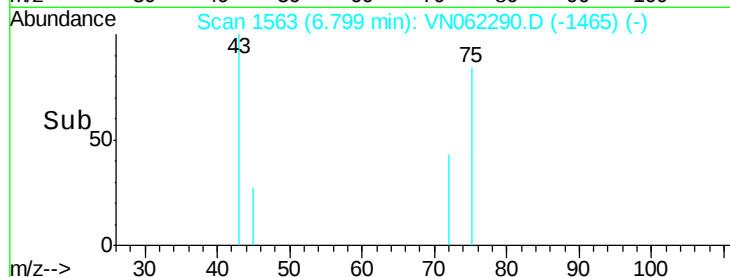
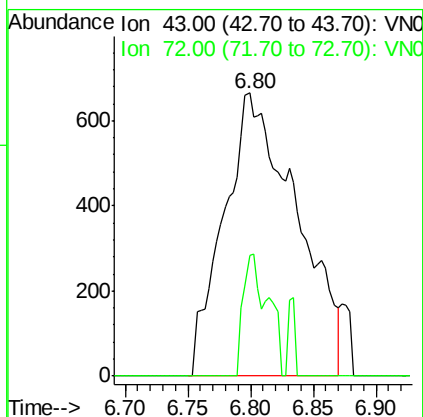
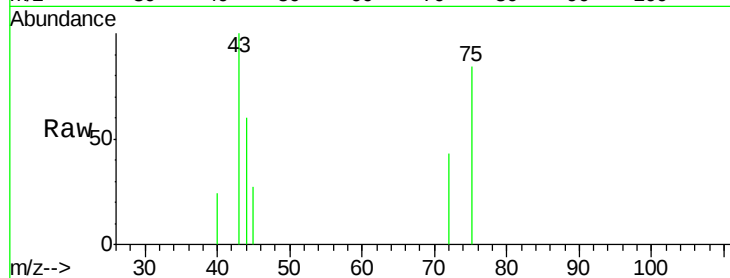




#25
2-Butanone
Concen: 2.045 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.02 min
Lab File: VN062290.D
Acq: 1 Jul 2020 14:29

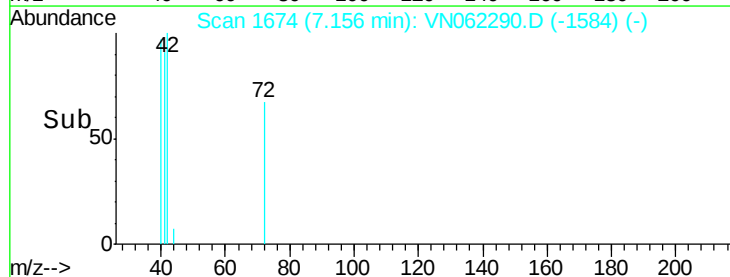
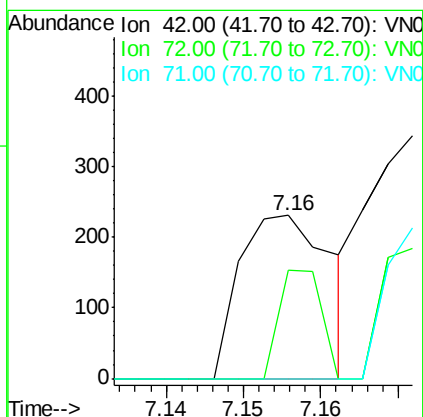
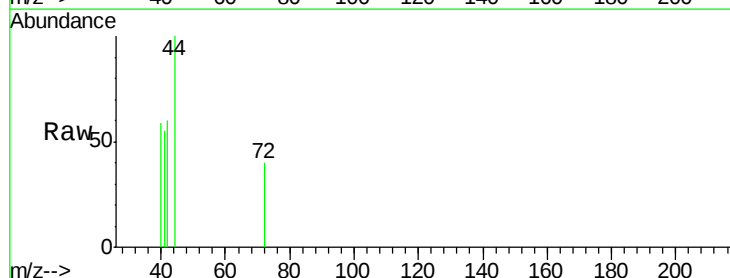
Instrument :
MSVOA_N
ClientSampleId :
72-11982ME

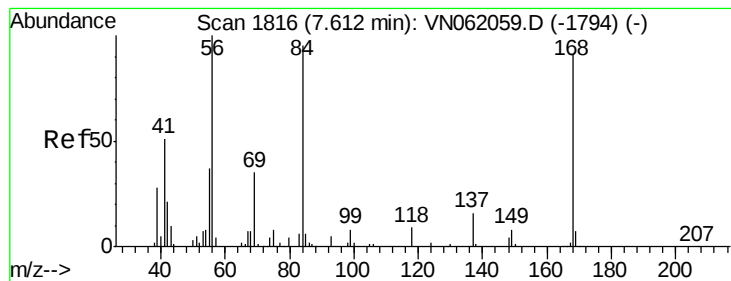
Tgt Ion: 43 Resp: 2679
Ion Ratio Lower Upper
43 100
72 42.6 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.221 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. -0.01 min
Lab File: VN062290.D
Acq: 1 Jul 2020 14:29

Tgt Ion: 42 Resp: 190
Ion Ratio Lower Upper
42 100
72 31.1 41.1 61.7#
71 0.0 38.2 57.4#





#31

Cyclohexane

Concen: 1.342 ug/l

RT: 7.61 min Scan# 1816

Delta R.T. -0.00 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

72-11982ME

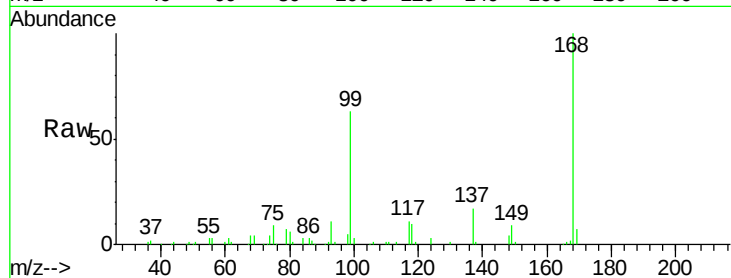
Tgt Ion: 56 Resp: 4971

Ion Ratio Lower Upper

56 100

69 154.2 28.0 42.0#

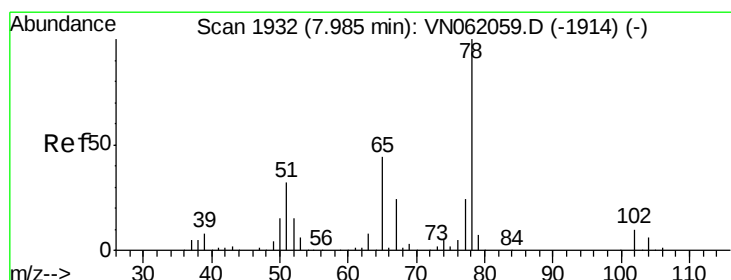
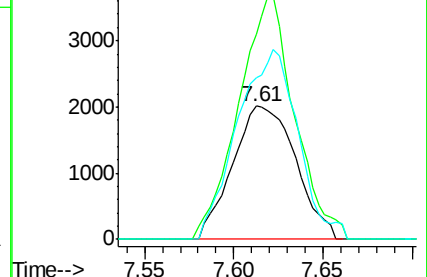
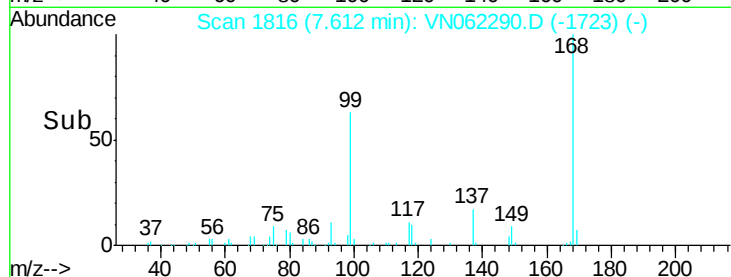
84 121.0 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VN062290.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN062290.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN062290.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 57.136 ug/l

RT: 7.98 min Scan# 1931

Delta R.T. -0.00 min

Lab File: VN062290.D

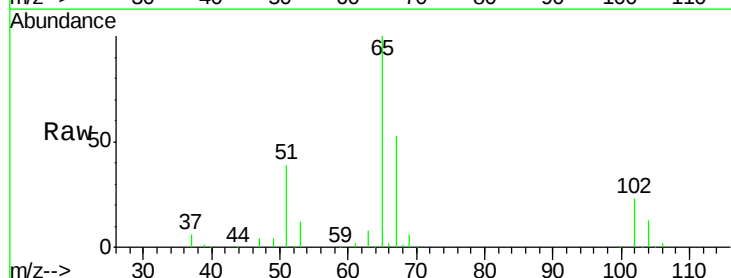
Acq: 1 Jul 2020 14:29

Tgt Ion: 65 Resp: 153147

Ion Ratio Lower Upper

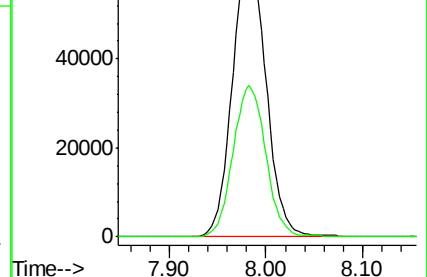
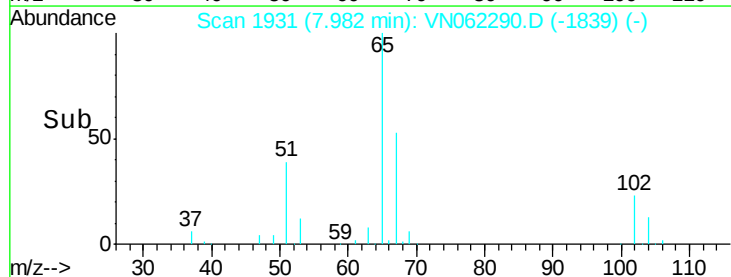
65 100

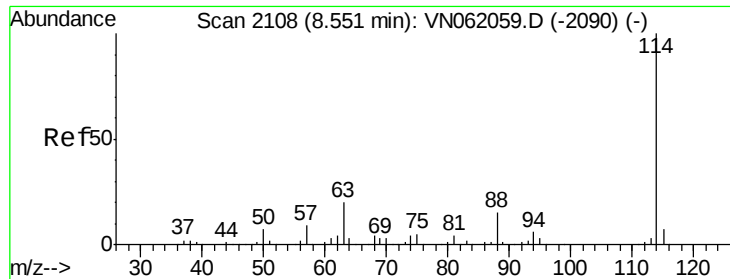
67 52.0 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN062290.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN062290.D (-1839) (-)

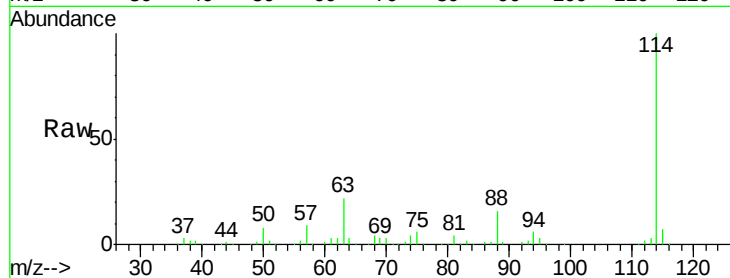




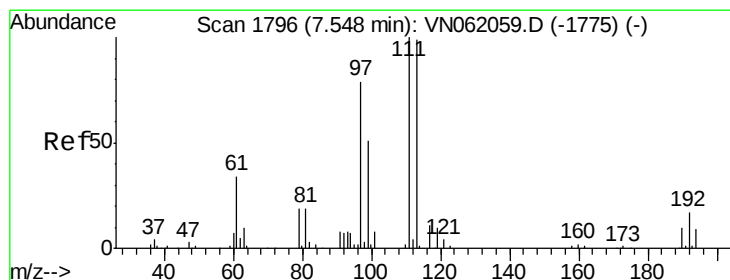
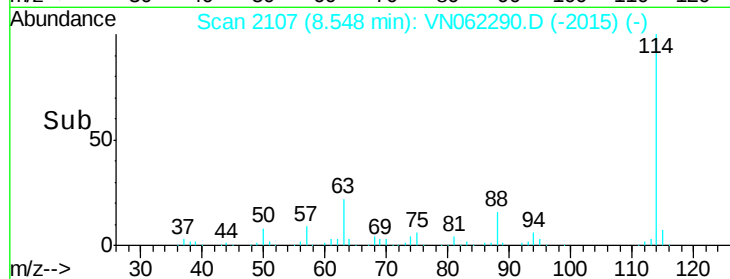
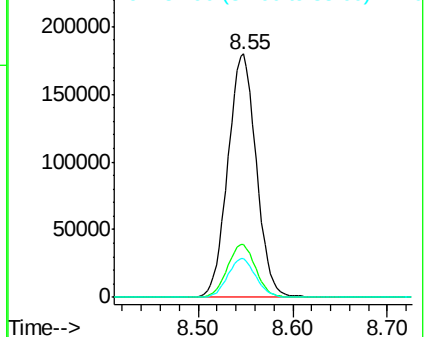
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN062290.D
 Acq: 1 Jul 2020 14:29

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11982ME

Tgt Ion:114 Resp: 375355
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 39.2
 88 15.7 0.0 30.8

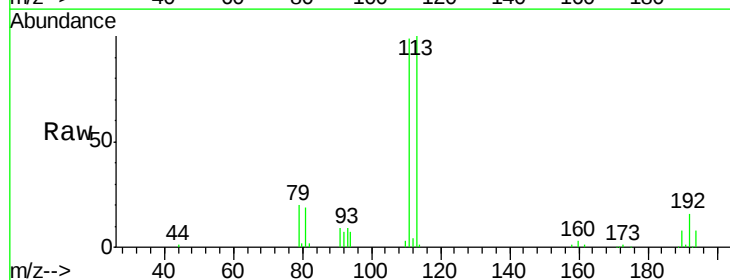


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

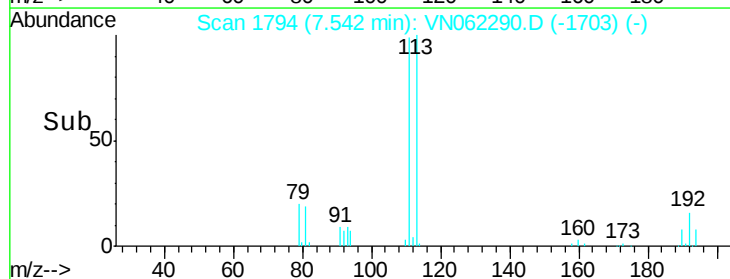
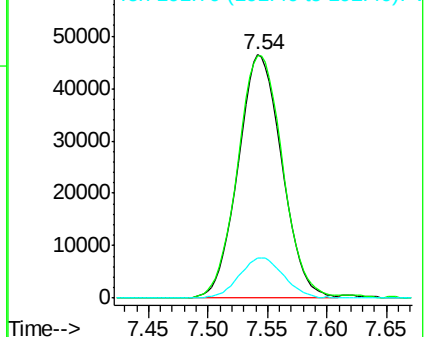


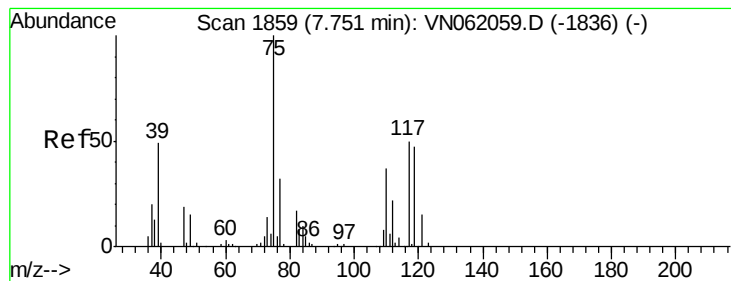
#35
 Dibromofluoromethane
 Concen: 49.226 ug/l
 RT: 7.54 min Scan# 1794
 Delta R.T. -0.01 min
 Lab File: VN062290.D
 Acq: 1 Jul 2020 14:29

Tgt Ion:113 Resp: 118541
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.2 123.4
 192 16.8 14.0 21.0



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: 4.548 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.13 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

72-11982ME

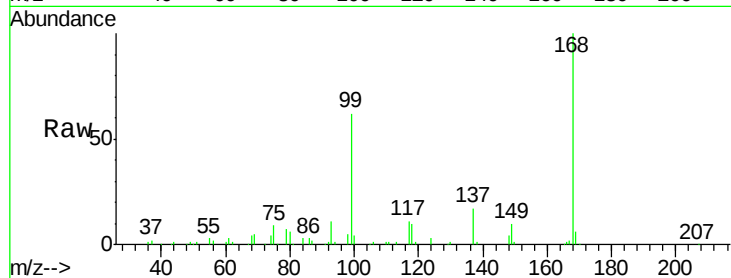
Tgt Ion: 75 Resp: 17159

Ion Ratio Lower Upper

75 100

110 7.9 17.9 53.8#

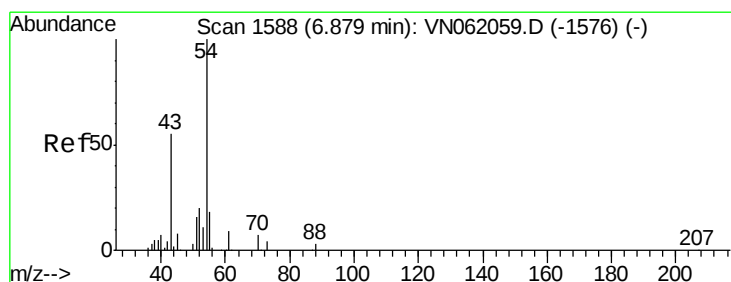
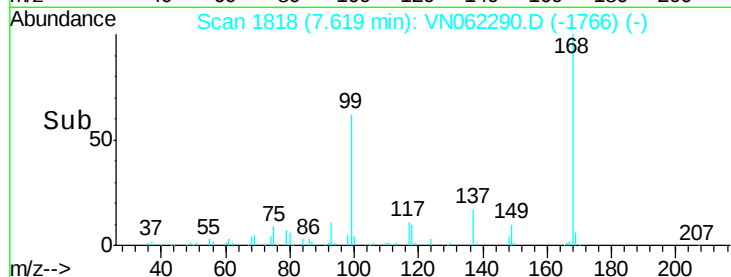
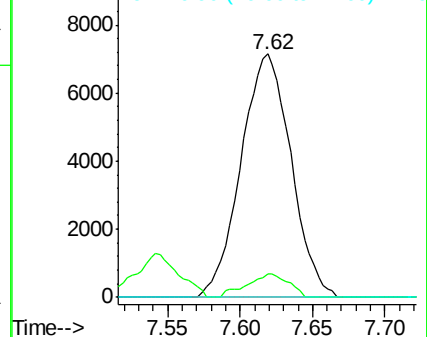
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 109.90 (109.60 to 110.60): VNC

Ion 76.90 (76.60 to 77.60): VNC



#37

Ethyl Acetate

Concen: 0.858 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.08 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

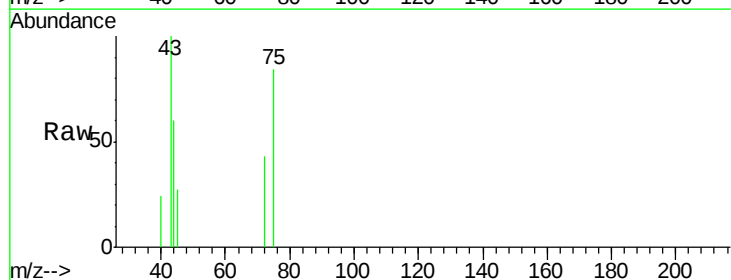
Tgt Ion: 43 Resp: 2679

Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

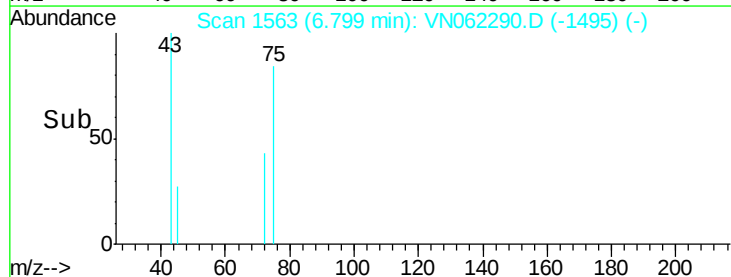
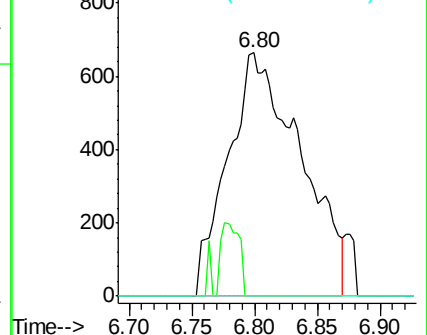
70 0.0 9.6 14.4#

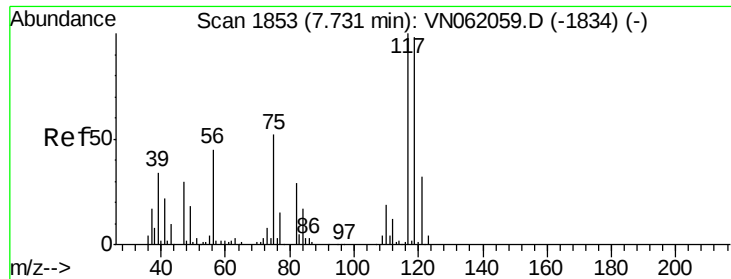


Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 70.00 (69.70 to 70.70): VNC





#38

Carbon Tetrachloride

Concen: 5.679 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. -0.11 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

72-11982ME

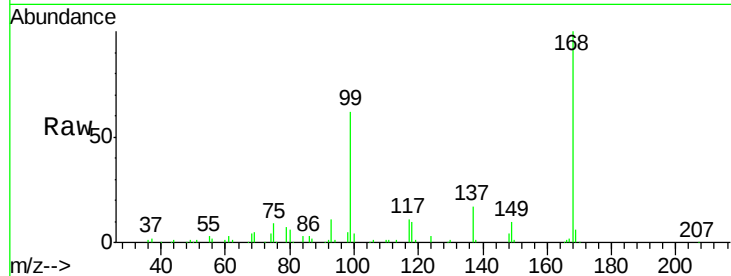
Tgt Ion:117 Resp: 20200

Ion Ratio Lower Upper

117 100

119 5.1 78.2 117.2#

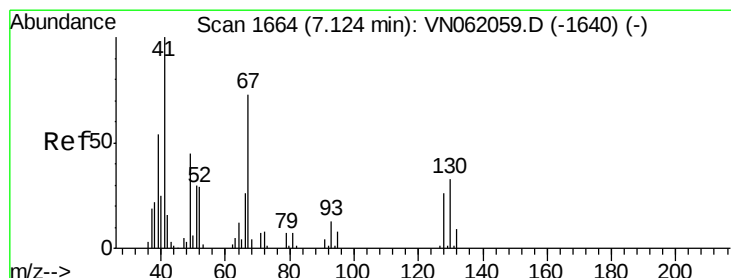
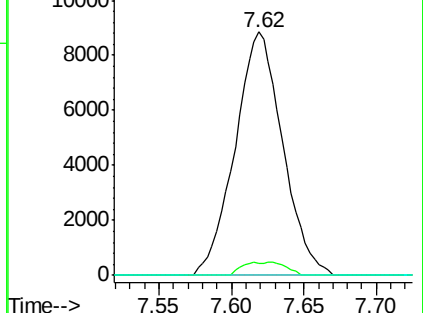
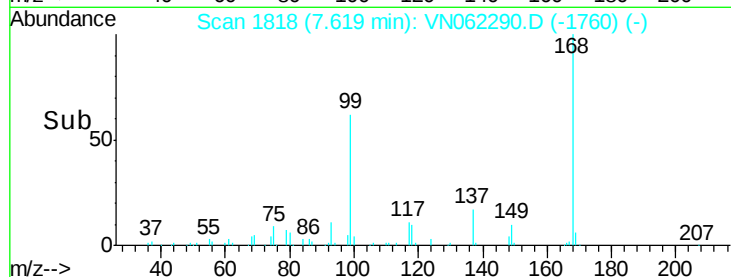
121 0.0 25.8 38.6#



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



#41

Methacrylonitrile

Concen: 0.219 ug/l

RT: 7.17 min Scan# 1677

Delta R.T. 0.04 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Tgt Ion: 41 Resp: 317

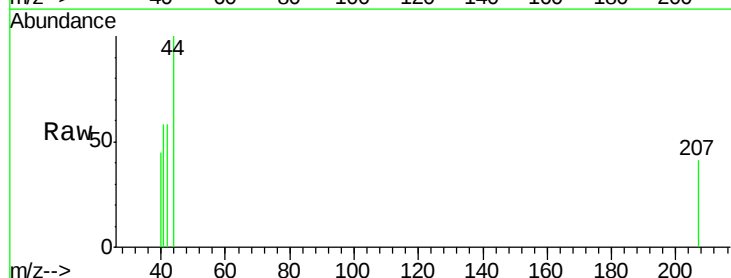
Ion Ratio Lower Upper

41 100

39 0.0 44.2 66.2#

67 0.0 79.5 119.3#

52 0.0 32.3 48.5#

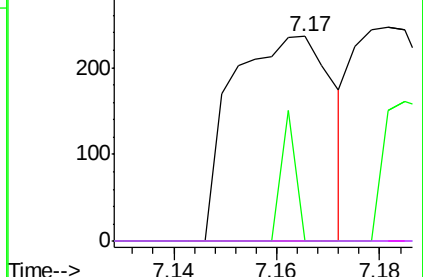
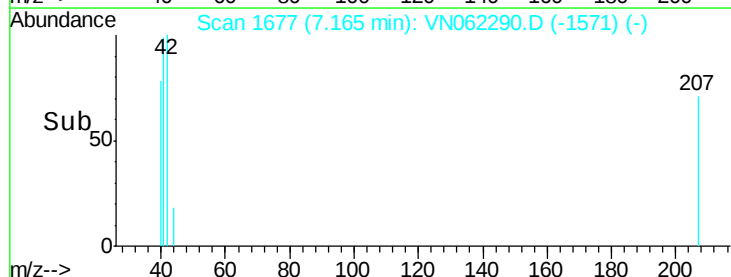


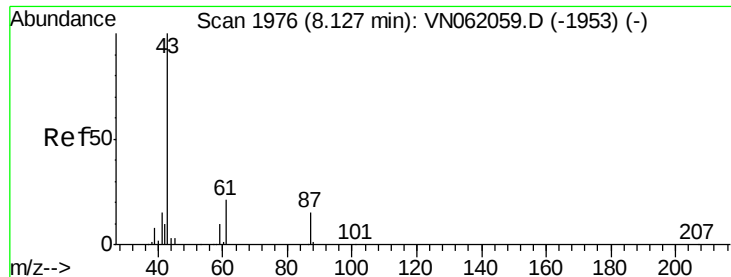
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 0.266 ug/l

RT: 8.20 min Scan# 1998

Delta R.T. 0.07 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

72-11982ME

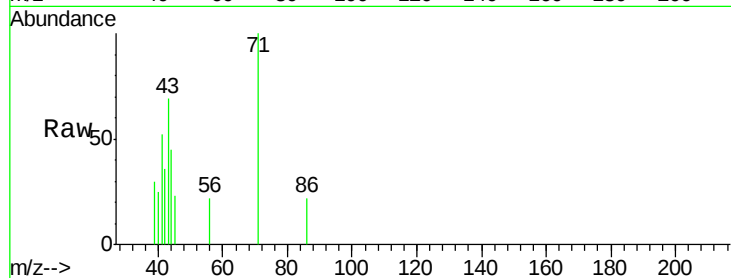
Tgt Ion: 43 Resp: 1357

Ion Ratio Lower Upper

43 100

61 0.0 17.2 25.8#

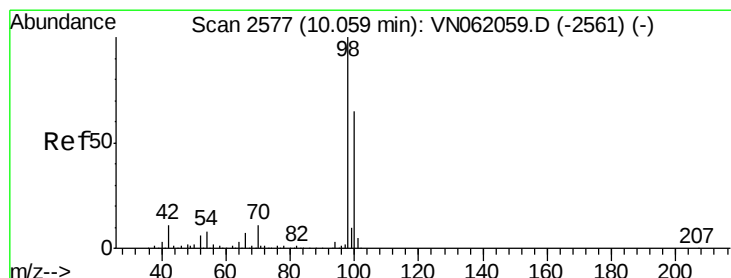
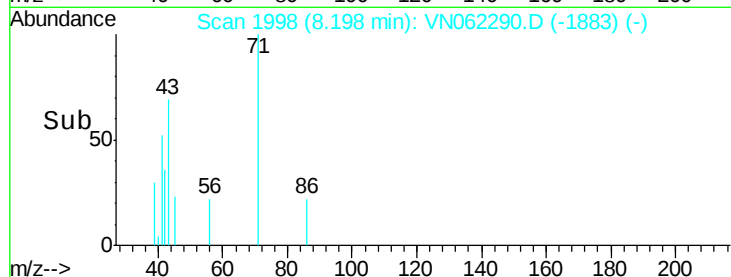
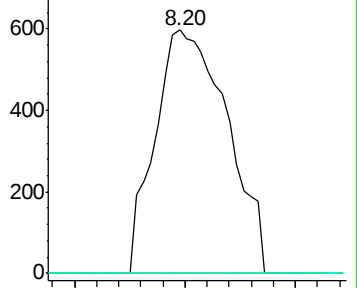
87 0.0 12.1 18.1#



Abundance Ion 43.00 (42.70 to 43.70): VN062290.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062290.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062290.D (-1953) (-)



#50

Toluene-d8

Concen: 49.947 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062290.D

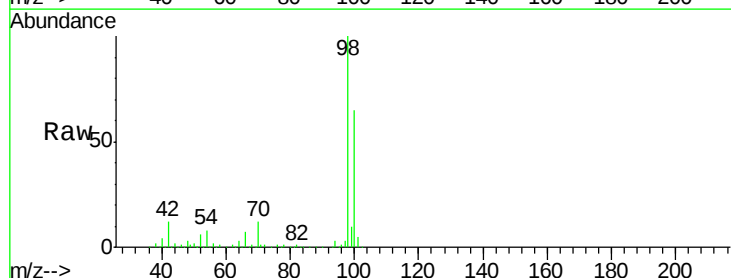
Acq: 1 Jul 2020 14:29

Tgt Ion: 98 Resp: 480790

Ion Ratio Lower Upper

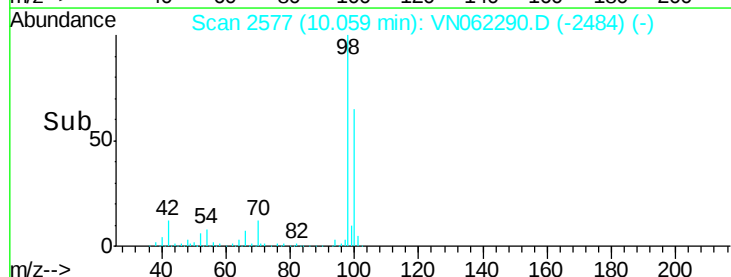
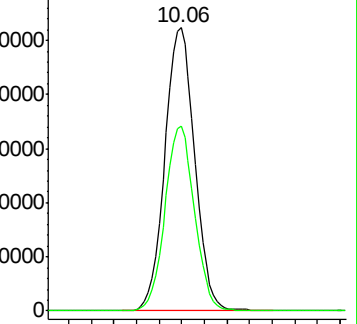
98 100

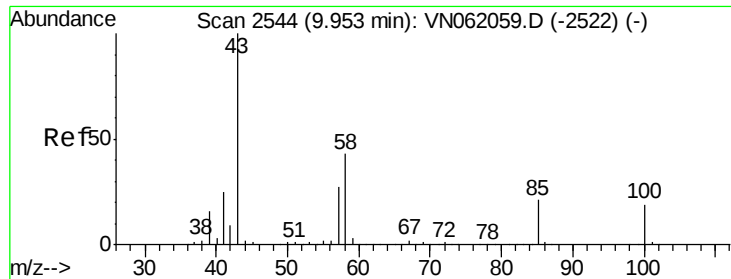
100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062290.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN062290.D (-2561) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.214 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

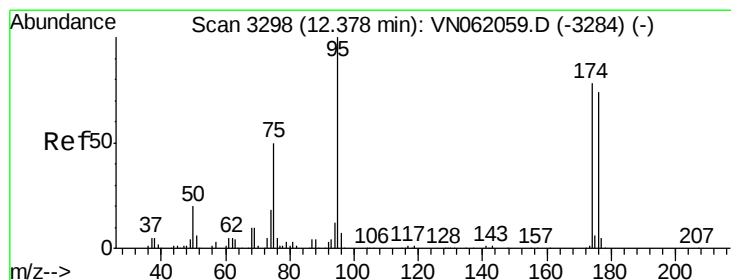
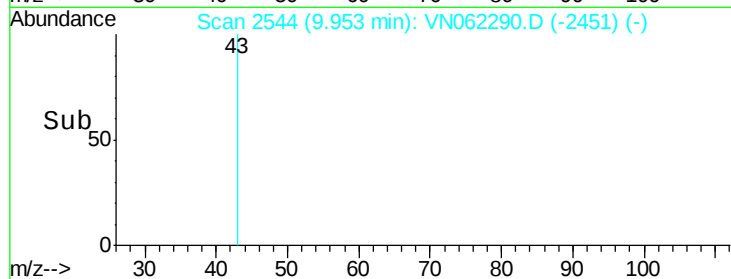
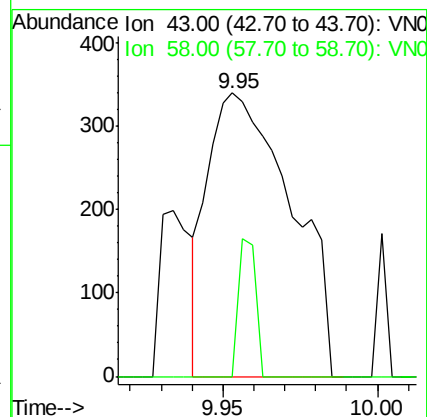
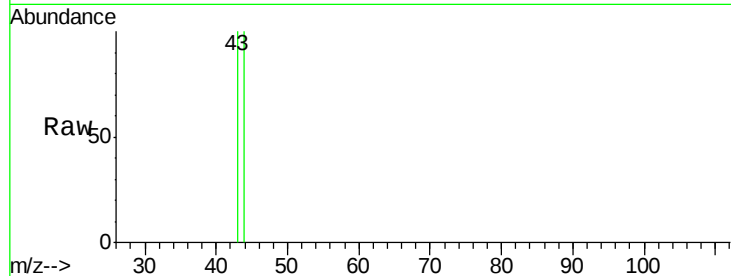
72-11982ME

Tgt Ion: 43 Resp: 638

Ion Ratio Lower Upper

43 100

58 0.0 34.2 51.2#



#62

4-Bromofluorobenzene

Concen: 47.864 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

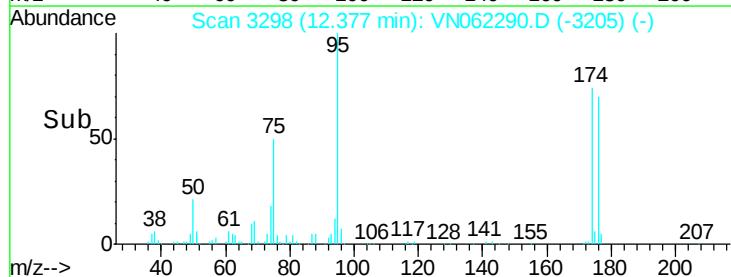
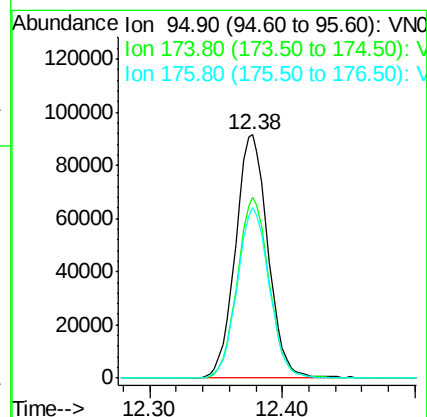
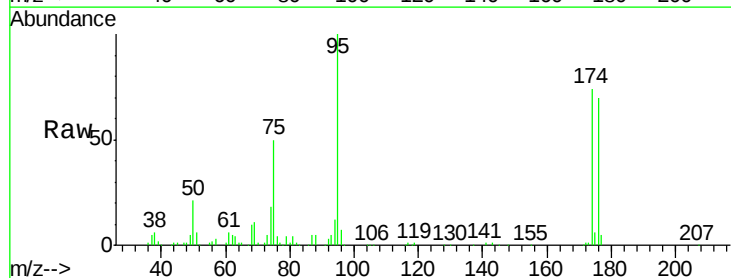
Tgt Ion: 95 Resp: 155663

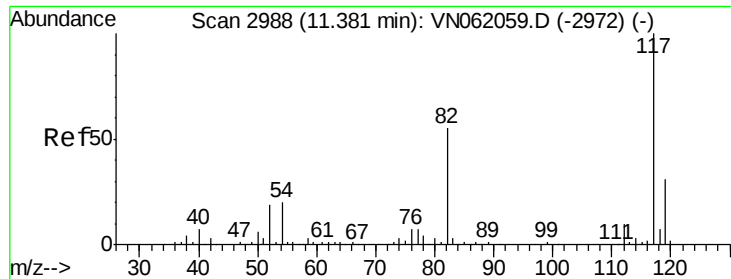
Ion Ratio Lower Upper

95 100

174 72.8 0.0 154.8

176 69.2 0.0 147.4

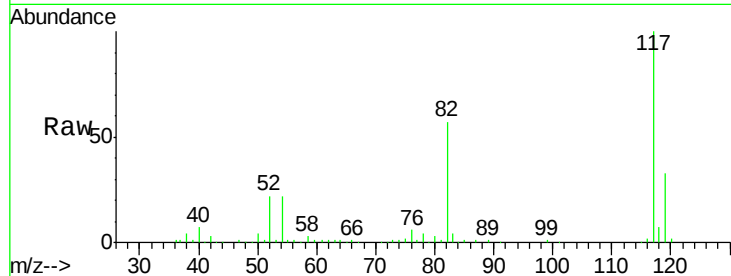




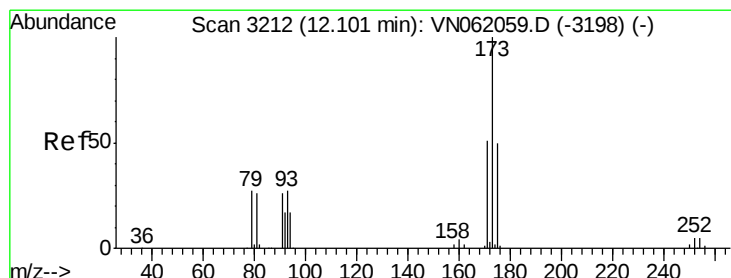
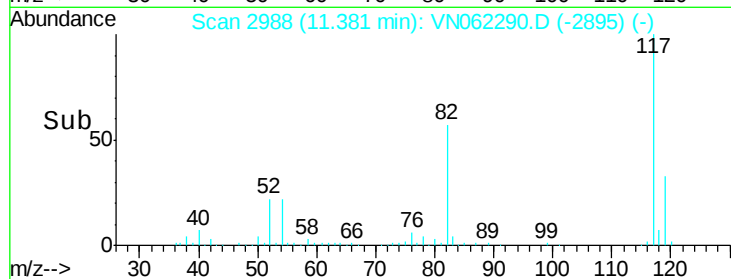
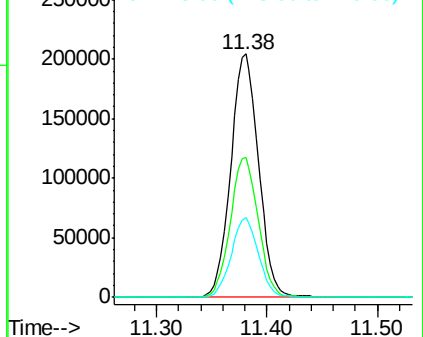
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062290.D
Acq: 1 Jul 2020 14:29

Instrument :
MSVOA_N
ClientSampled :
72-11982ME

Tgt Ion:117 Resp: 357082
Ion Ratio Lower Upper
117 100
82 57.3 43.8 65.8
119 32.7 25.2 37.8

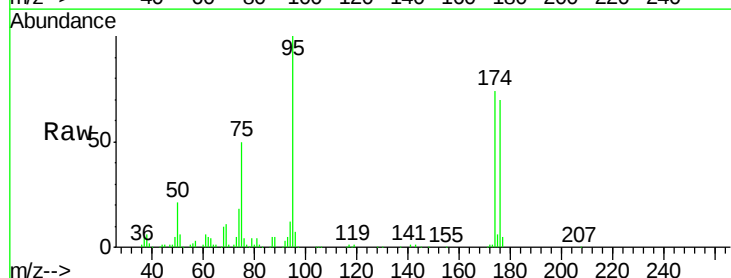


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

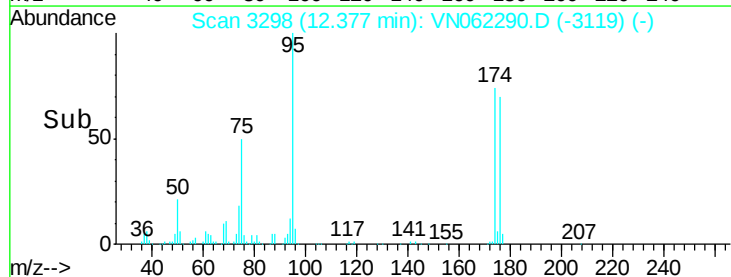
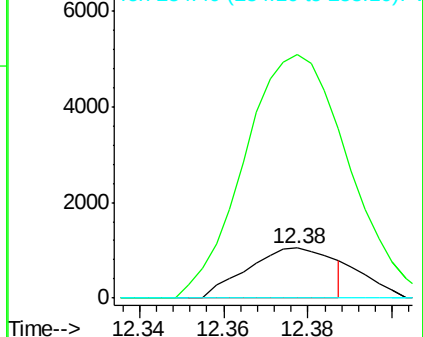


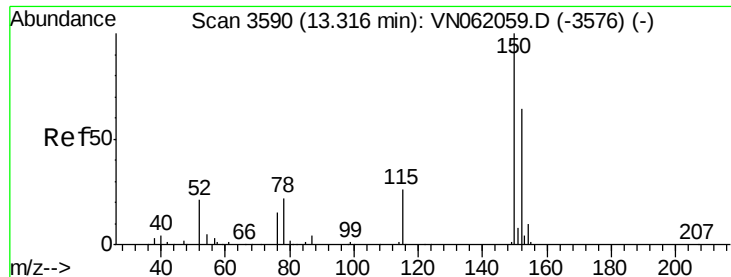
#71
Bromoform
Concen: 0.757 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062290.D
Acq: 1 Jul 2020 14:29

Tgt Ion:173 Resp: 1459
Ion Ratio Lower Upper
173 100
175 502.9 24.7 74.1#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Instrument :

MSVOA_N

ClientSampleId :

72-11982ME

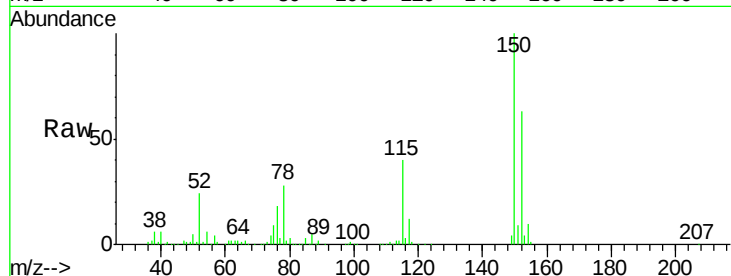
Tgt Ion:152 Resp: 141422

Ion Ratio Lower Upper

152 100

115 62.9 29.5 88.5

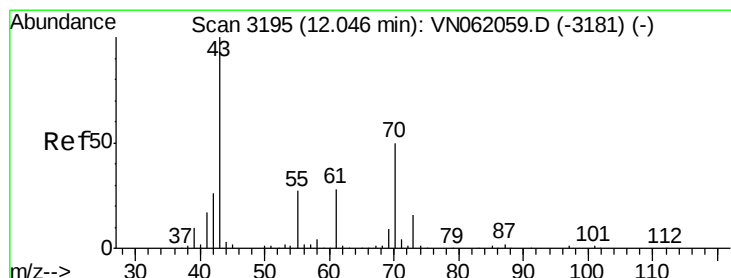
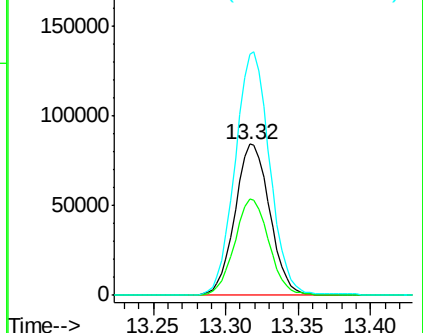
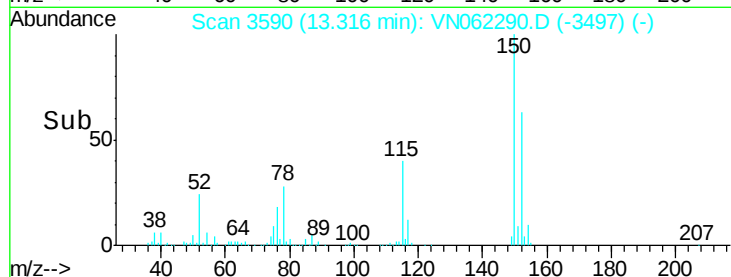
150 160.3 0.0 351.4



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: 3.368 ug/l

RT: 12.05 min Scan# 3197

Delta R.T. 0.01 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Tgt Ion: 43 Resp: 109

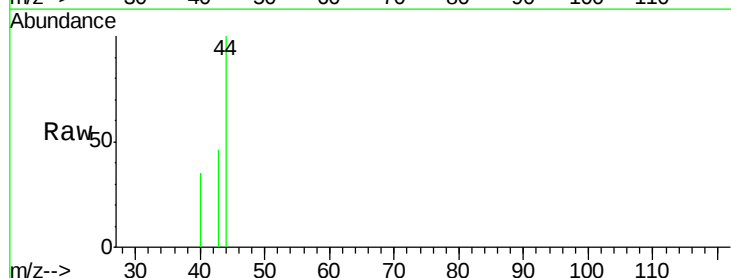
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

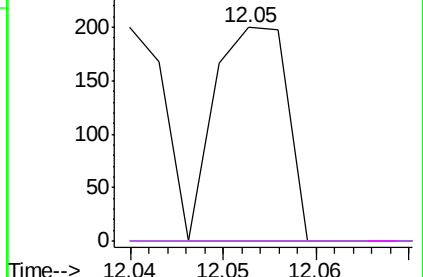
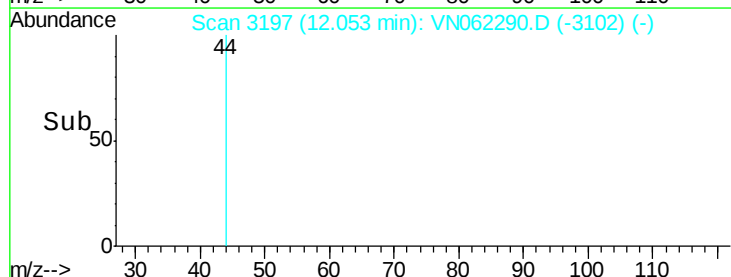


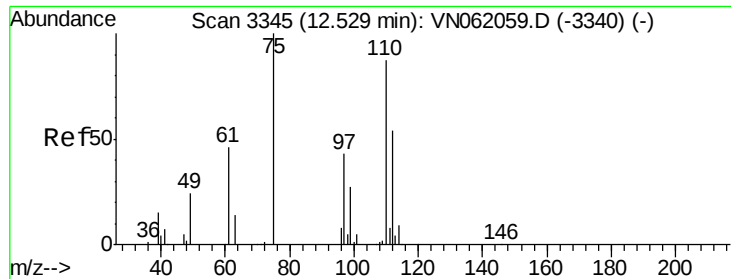
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 23.748 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

Instrument :

MSVOA_N

ClientSampled :

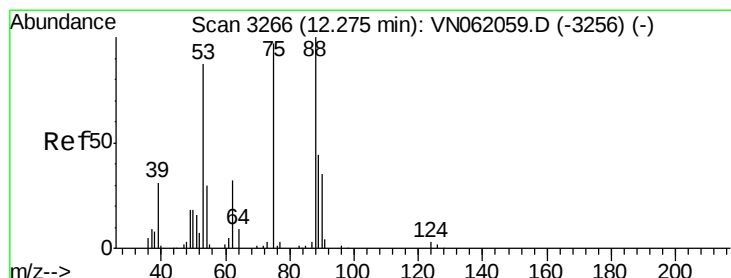
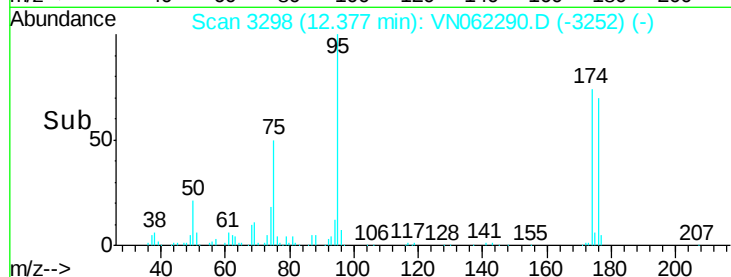
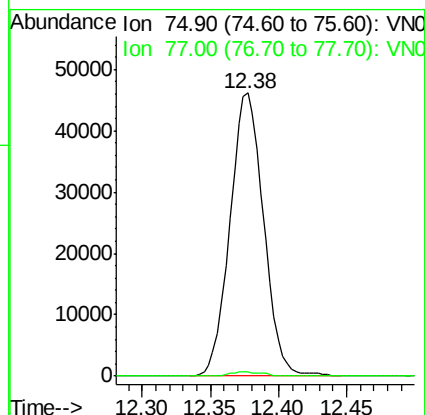
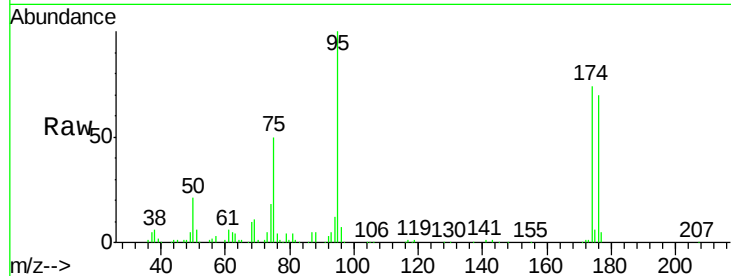
72-11982ME

Tgt Ion: 75 Resp: 79060

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 69.352 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062290.D

Acq: 1 Jul 2020 14:29

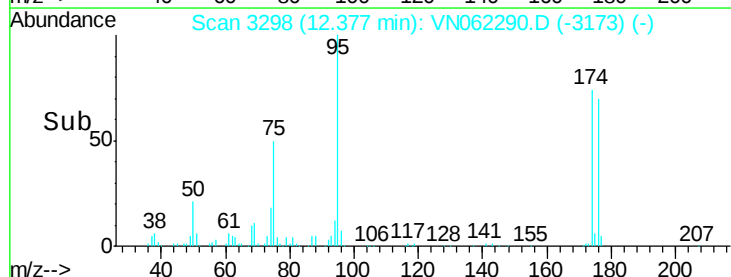
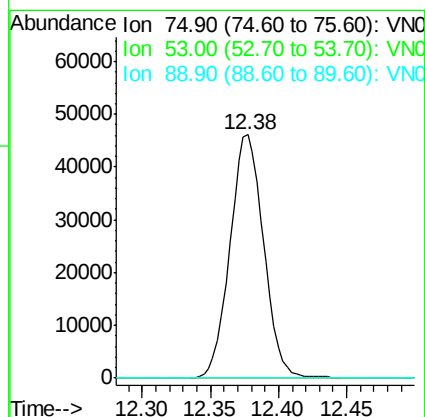
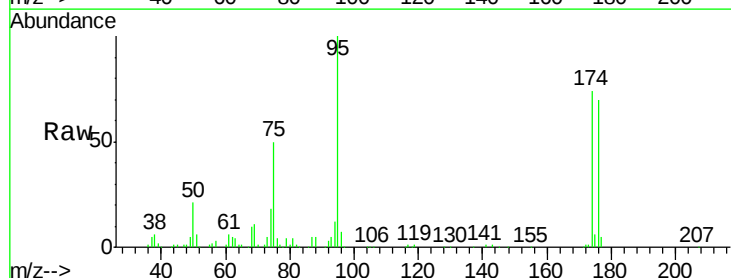
Tgt Ion: 75 Resp: 79060

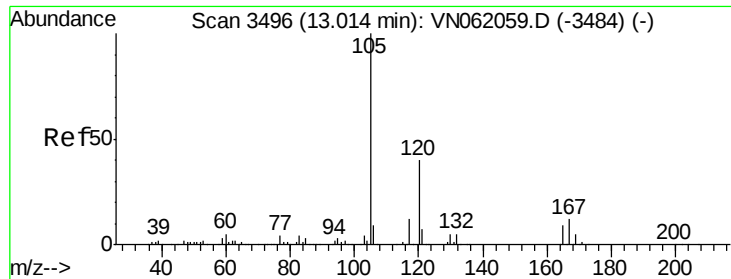
Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#

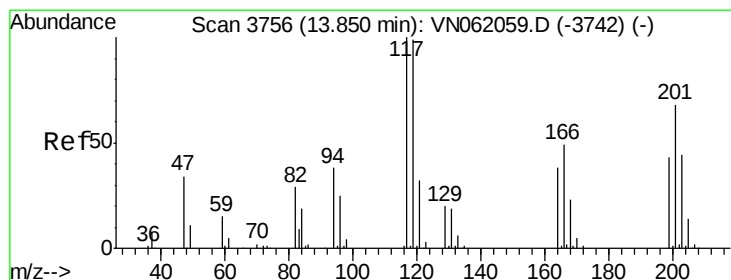
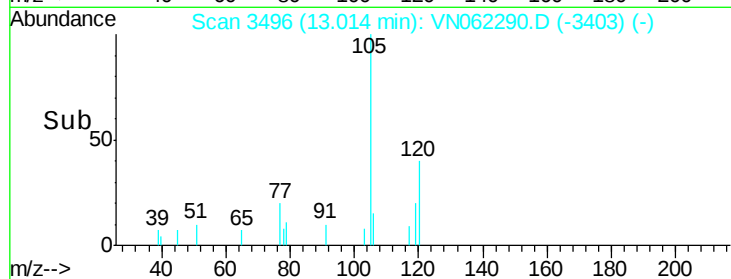
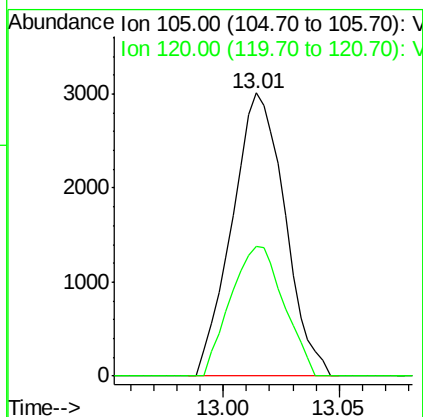
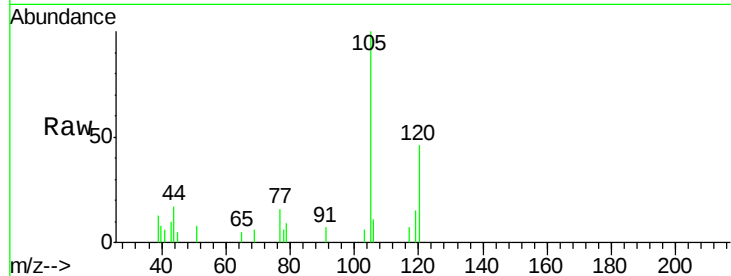




#84
 1,2,4-Trimethylbenzene
 Concen: 0.538 ug/l
 RT: 13.01 min Scan# 3496
 Delta R.T. -0.00 min
 Lab File: VN062290.D
 Acq: 1 Jul 2020 14:29

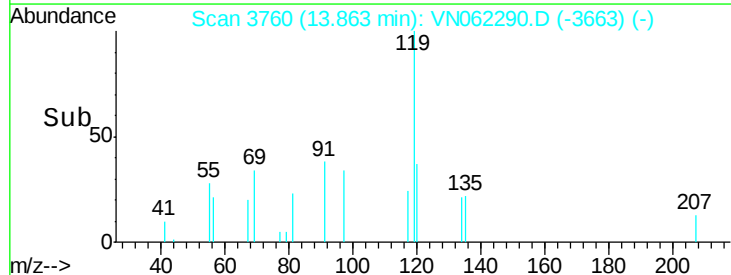
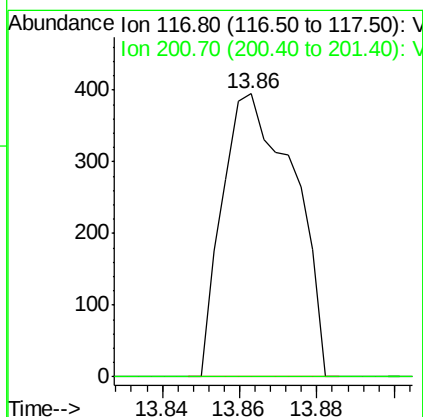
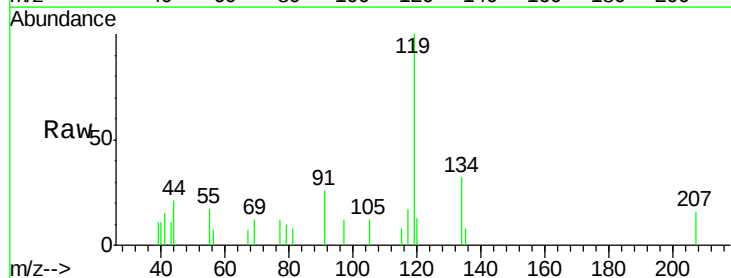
Instrument :
 MSVOA_N
 ClientSampleId :
 72-11982ME

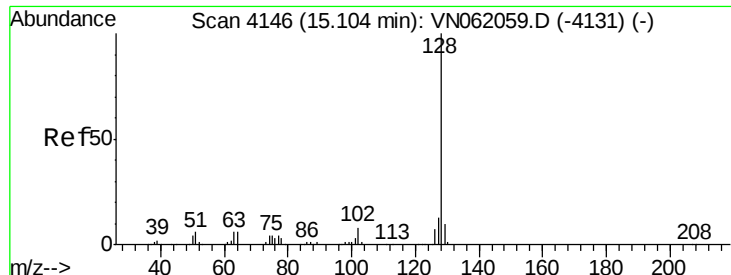
Tgt Ion:105 Resp: 4767
 Ion Ratio Lower Upper
 105 100
 120 46.2 23.2 69.5



#90
 Hexachloroethane
 Concen: 0.294 ug/l
 RT: 13.86 min Scan# 3760
 Delta R.T. 0.01 min
 Lab File: VN062290.D
 Acq: 1 Jul 2020 14:29

Tgt Ion:117 Resp: 507
 Ion Ratio Lower Upper
 117 100
 201 0.0 32.7 98.1#

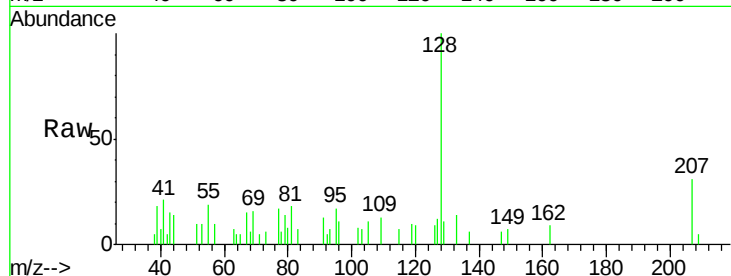




#95
Naphthalene
Concen: 4.798 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN062290.D
Acq: 1 Jul 2020 14:29

Instrument :
MSVOA_N
ClientSampleId :
72-11982ME

Tgt Ion:128 Resp: 5885
Ion Ratio Lower Upper
128 100
127 11.7 10.5 15.7
129 9.3 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

