

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN060820\
 Data File : VN061697.D
 Acq On : 8 Jun 2020 15:44
 Operator : JC/MD
 Sample : L2890-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 72-11979-72-11969

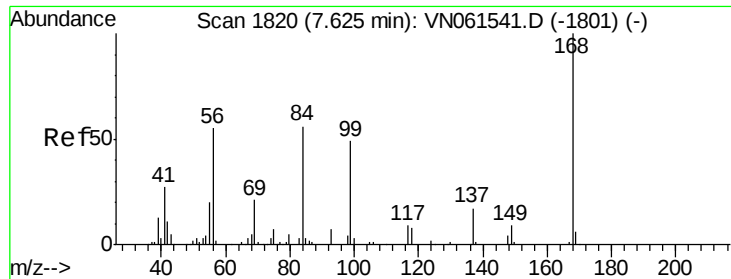
Quant Time: Jun 09 03:12:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	312187	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	531041	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	538520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	241298	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	176140	47.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.72%	
35) Dibromofluoromethane	7.55	113	152479	56.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.20%	
50) Toluene-d8	10.06	98	652717	52.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.58%	
62) 4-Bromofluorobenzene	12.38	95	235244	51.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	15550	9.20	ug/l	96
18) Methyl Acetate	4.27	43	769	0.23	ug/l	# 89
20) Methylene Chloride	4.50	84	13875	2.45	ug/l	98
25) 2-Butanone	6.81	43	2837	1.61	ug/l	92
29) Tetrahydrofuran	7.17	42	1041	0.90	ug/l	# 59
31) Cyclohexane	7.62	56	5358	1.02	ug/l	# 1
36) 1,1-Dichloropropene	7.63	75	21657	4.61	ug/l	# 49
38) Carbon Tetrachloride	7.63	117	30125	6.64	ug/l	# 17
41) Methacrylonitrile	7.17	41	382	0.22	ug/l	# 21
43) Isopropyl Acetate	8.13	43	58388	8.57	ug/l	# 90
45) 1,2-Dichloropropane	9.23	63	1371	0.40	ug/l	# 44
48) Methyl methacrylate	9.15	41	3275	1.07	ug/l	# 5
51) 4-Methyl-2-Pentanone	9.95	43	6337	1.65	ug/l	95
54) cis-1,3-Dichloropropene	9.88	75	33454	5.52	ug/l	# 61
57) 1,3-Dichloropropane	10.73	76	4942	0.82	ug/l	# 42
59) 2-Hexanone	10.74	43	51188	18.57	ug/l	# 51
71) Bromoform	12.37	173	1940	0.60	ug/l	# 1
74) N-amyl acetate	12.00	43	2017	0.36	ug/l	# 38
76) 1,2,3-Trichloropropane	12.38	75	114270	26.04	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.38	75	114270	66.60	ug/l	# 15

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

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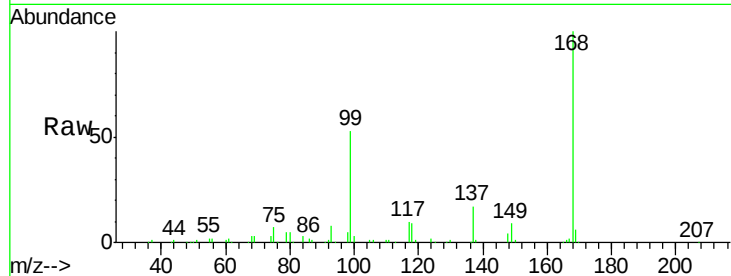
72-11979-72-11969

Tgt Ion:168 Resp: 312187

Ion Ratio Lower Upper

168 100

99 52.4 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

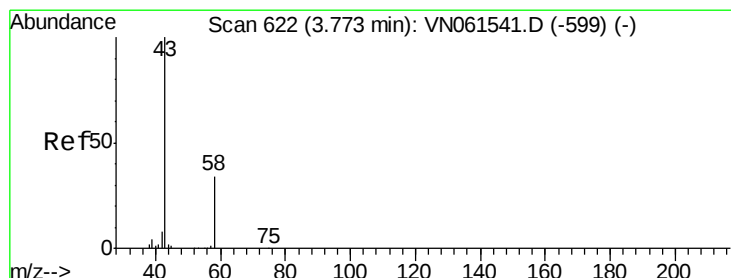
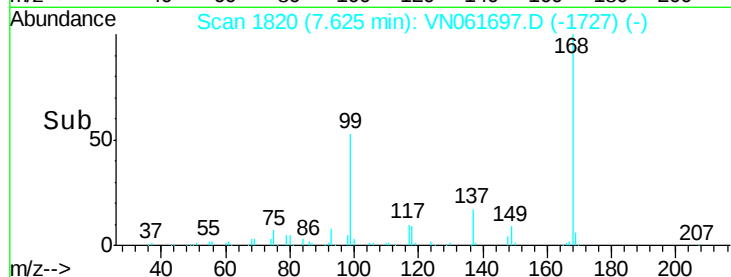
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 9.20 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061697.D

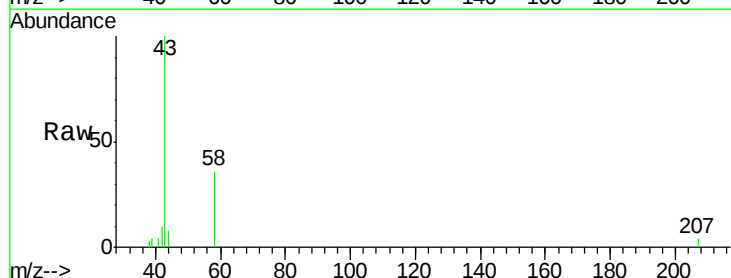
Acq: 8 Jun 2020 15:44

Tgt Ion: 43 Resp: 15550

Ion Ratio Lower Upper

43 100

58 36.3 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

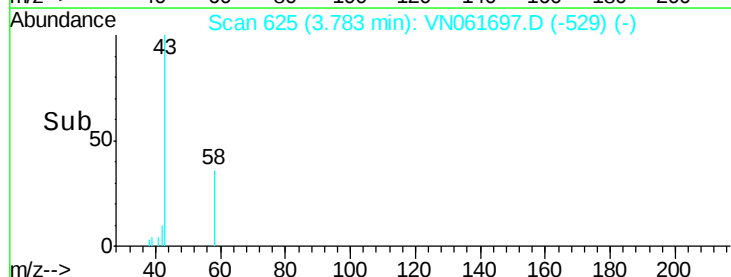
6000

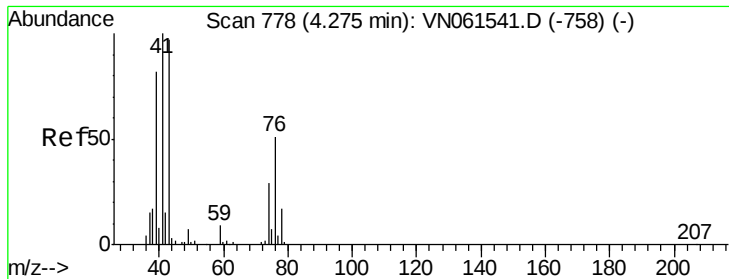
4000

2000

0

Time--> 3.70 3.75 3.80 3.85

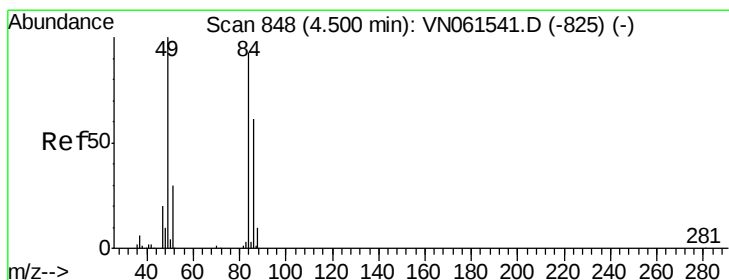
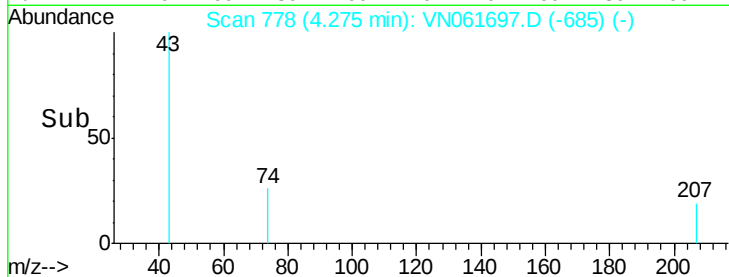
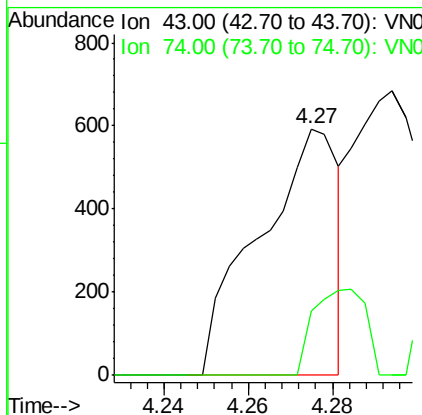
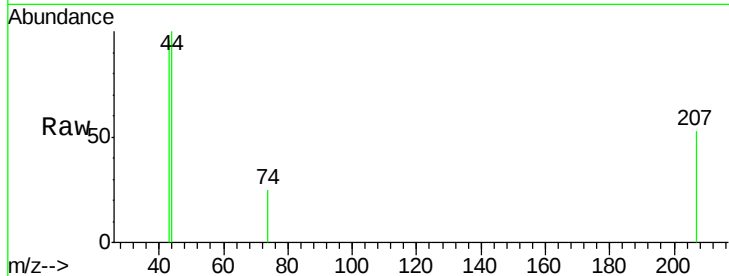




#18
Methyl Acetate
Concen: 0.23 ug/l
RT: 4.27 min Scan# 778
Delta R.T. 0.00 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

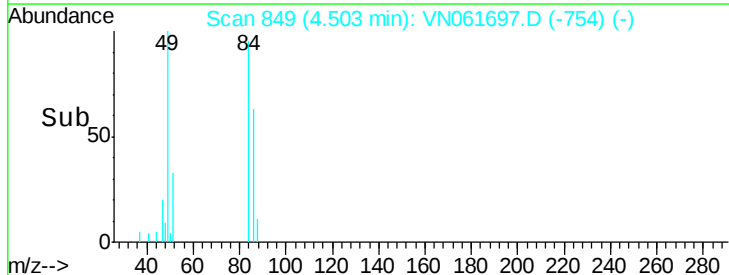
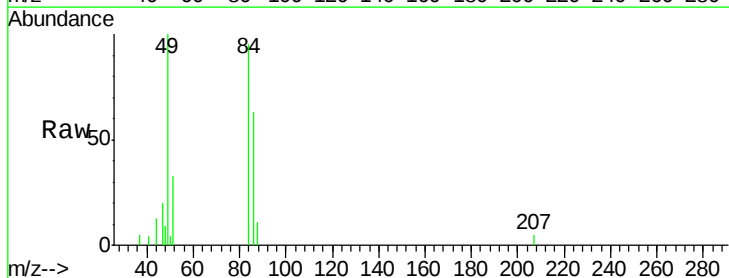
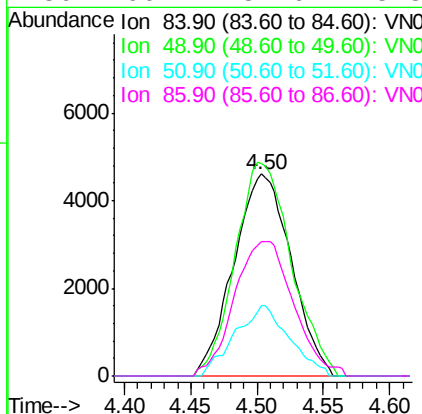
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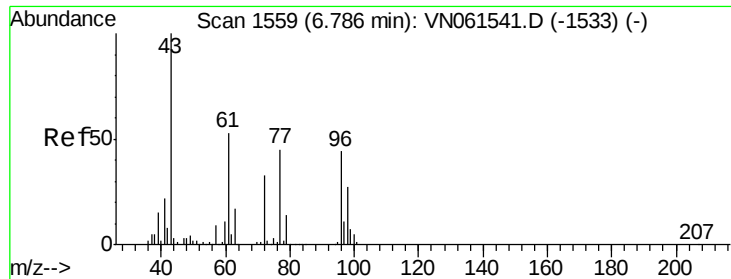
Tgt Ion: 43 Resp: 769
Ion Ratio Lower Upper
43 100
74 22.9 23.2 34.8#



#20
Methylene Chloride
Concen: 2.45 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

Tgt Ion: 84 Resp: 13875
Ion Ratio Lower Upper
84 100
49 105.4 85.8 128.8
51 34.7 26.2 39.2
86 66.4 52.6 78.8

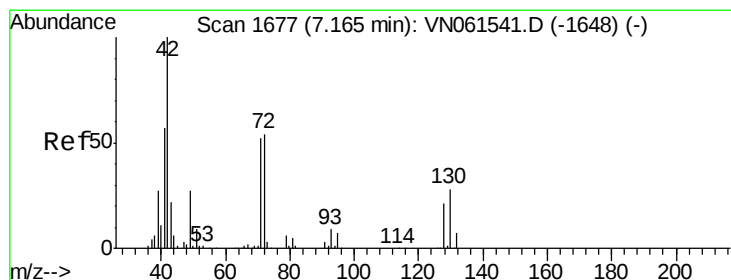
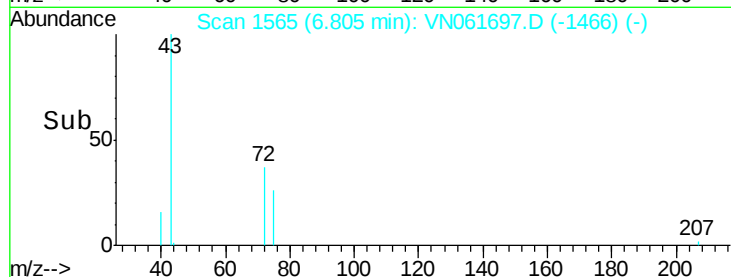
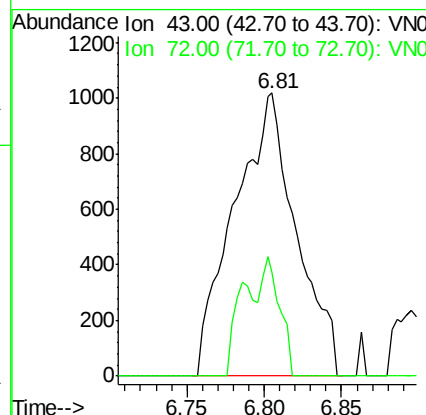
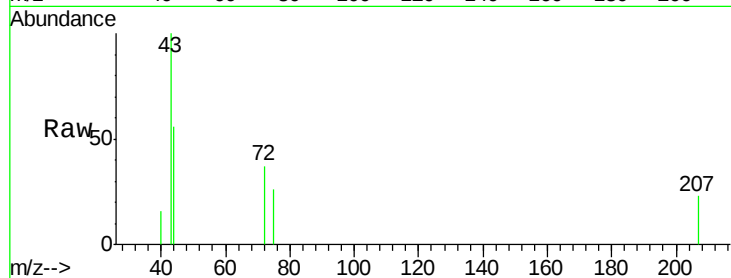




#25
2-Butanone
Concen: 1.61 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.02 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

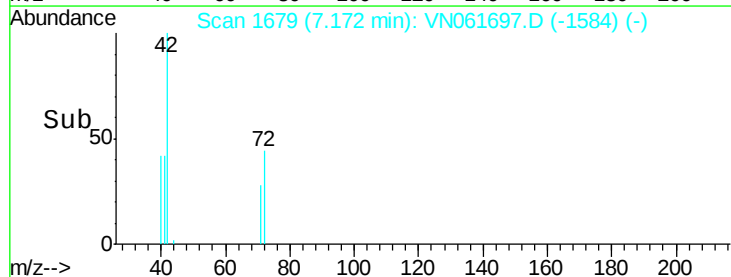
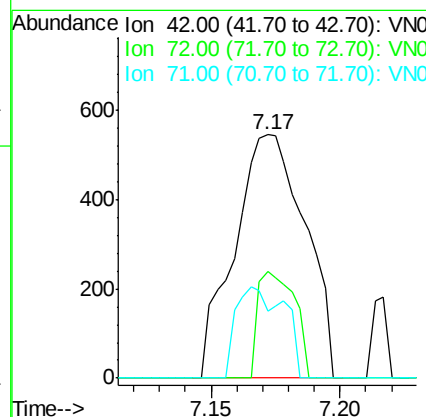
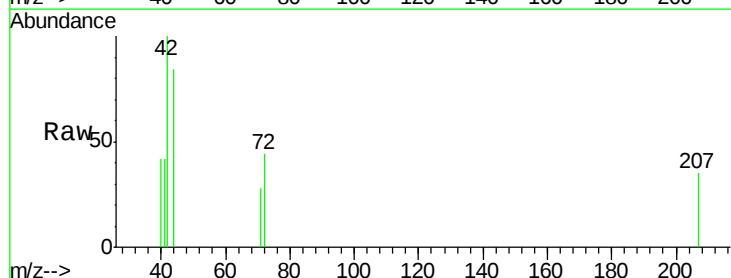
Instrument :
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72-11979-72-11969

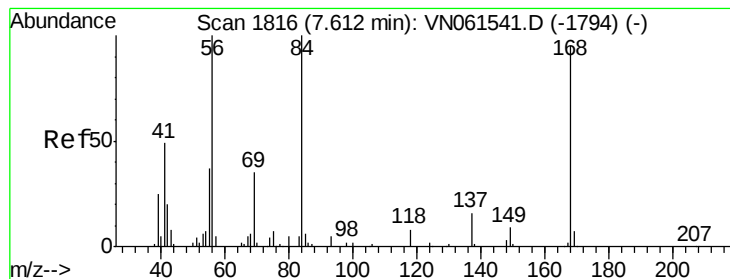
Tgt Ion: 43 Resp: 2837
Ion Ratio Lower Upper
43 100
72 36.7 26.0 39.0



#29
Tetrahydrofuran
Concen: 0.90 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

Tgt Ion: 42 Resp: 1041
Ion Ratio Lower Upper
42 100
72 23.1 43.6 65.4#
71 25.5 41.2 61.8#





#31

Cyclohexane

Concen: 1.02 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061697.D

Acq: 8 Jun 2020 15:44

Instrument :

MSVOA_N

ClientSampleId :

72-11979-72-11969

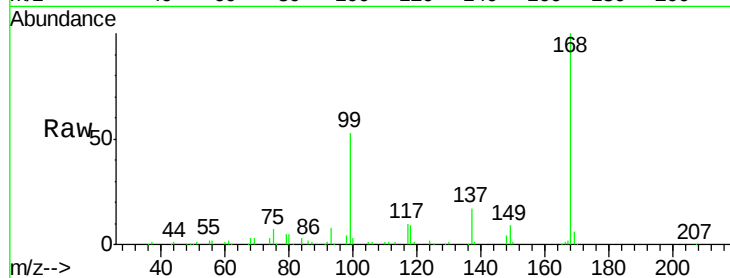
Tgt Ion: 56 Resp: 5358

Ion Ratio Lower Upper

56 100

69 171.2 27.8 41.8#

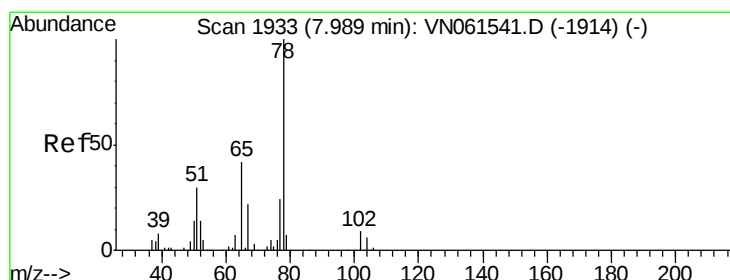
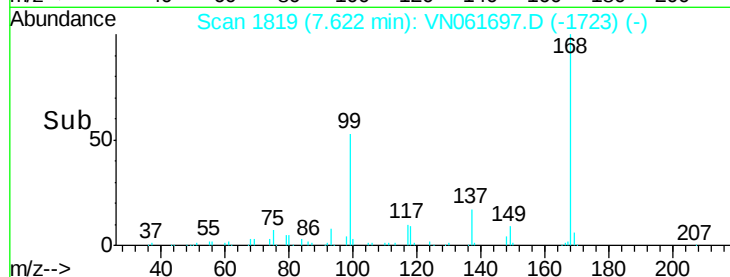
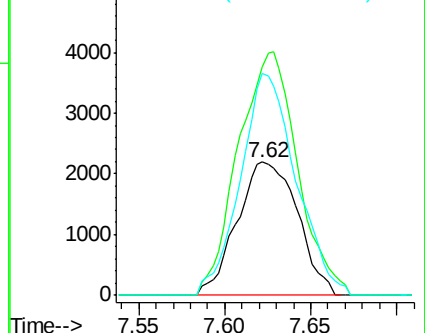
84 167.0 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061697.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061697.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061697.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.36 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061697.D

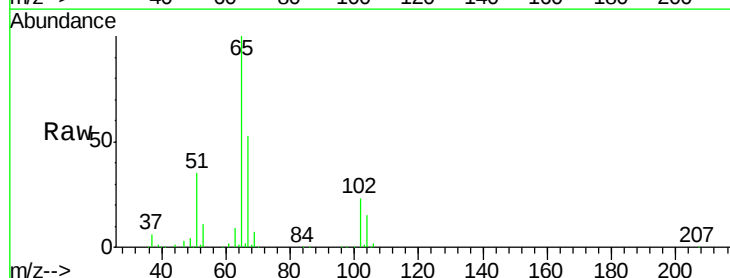
Acq: 8 Jun 2020 15:44

Tgt Ion: 65 Resp: 176140

Ion Ratio Lower Upper

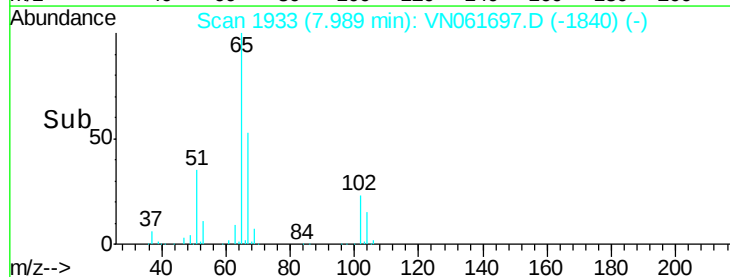
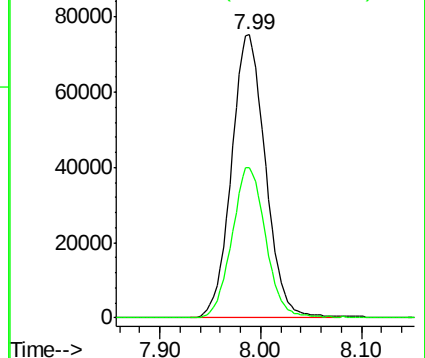
65 100

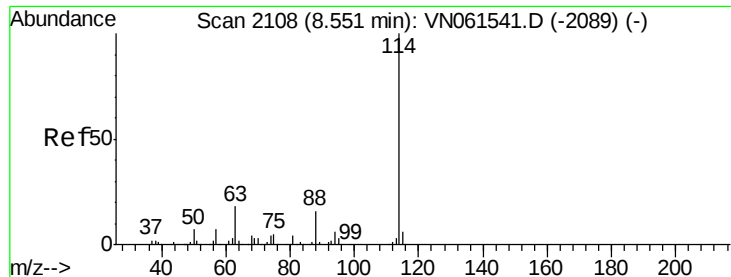
67 52.8 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061697.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061697.D (-1840) (-)

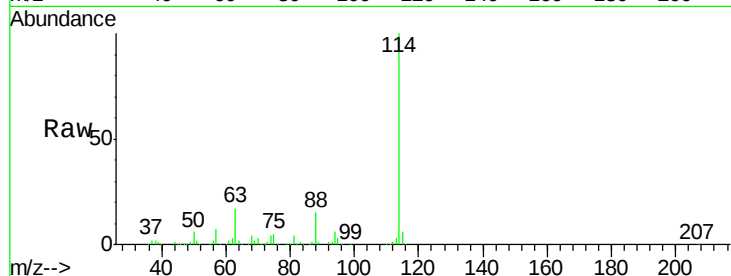




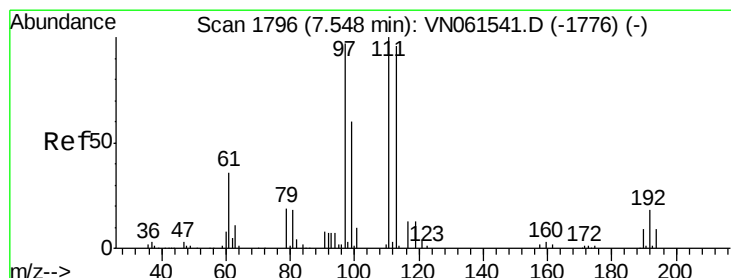
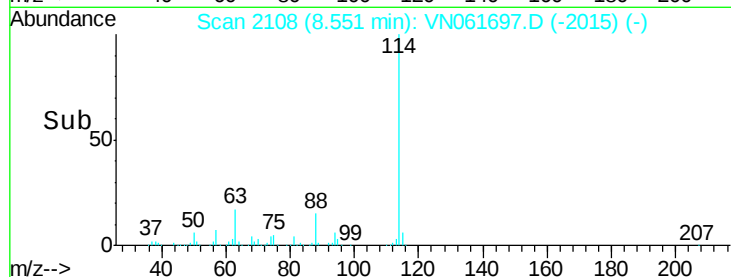
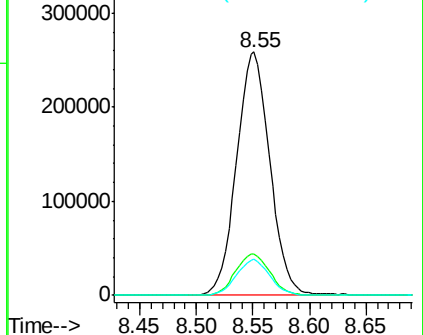
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061697.D
 Acq: 8 Jun 2020 15:44

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Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.0	0.0	35.8
88	14.9	0.0	31.0

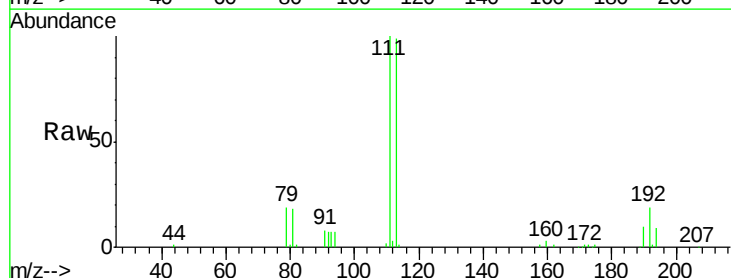


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

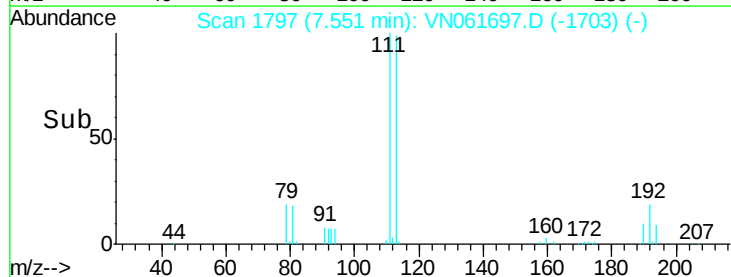
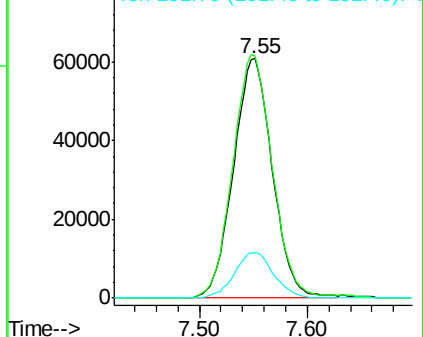


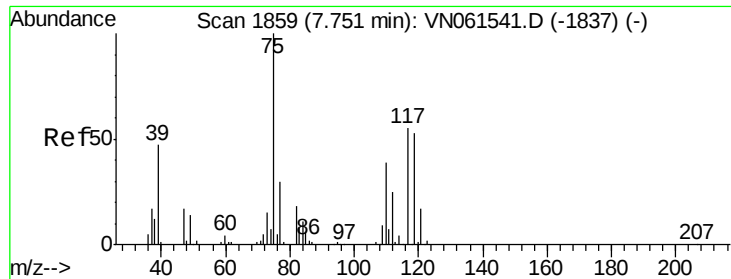
#35
 Dibromofluoromethane
 Concen: 56.60 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061697.D
 Acq: 8 Jun 2020 15:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.4	125.0
192	19.3	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

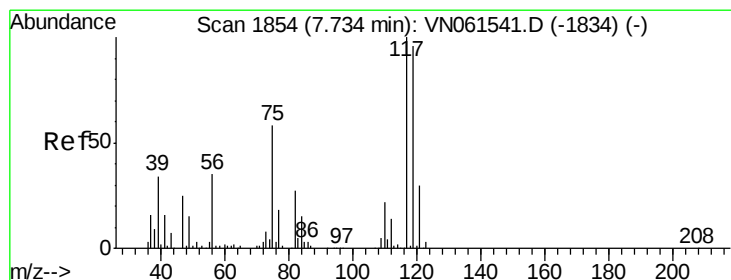
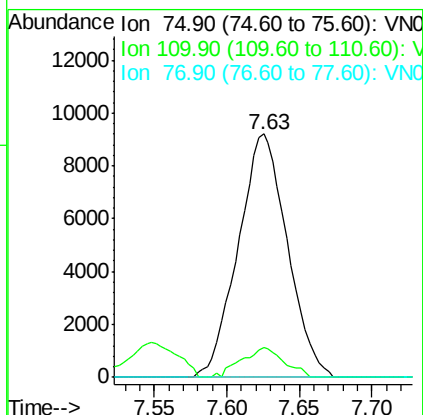
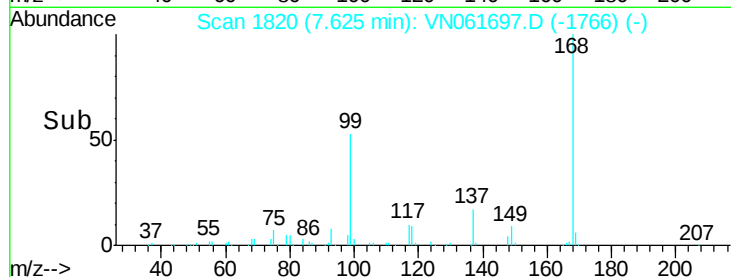
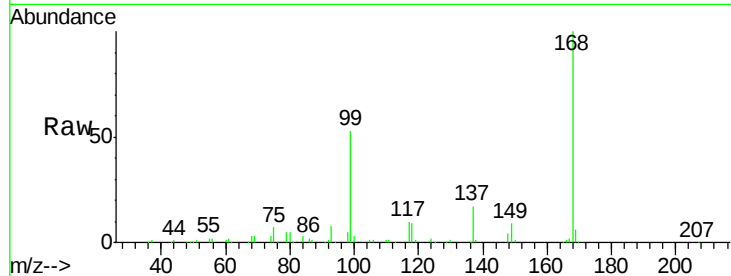




#36
 1,1-Dichloropropene
 Concen: 4.61 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061697.D
 Acq: 8 Jun 2020 15:44

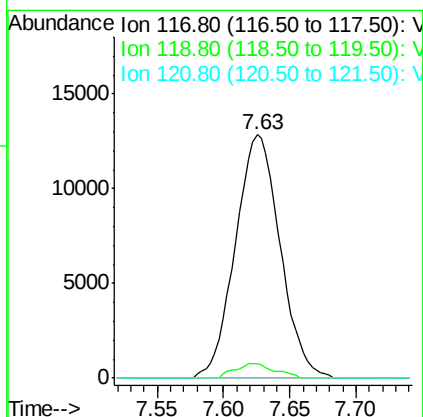
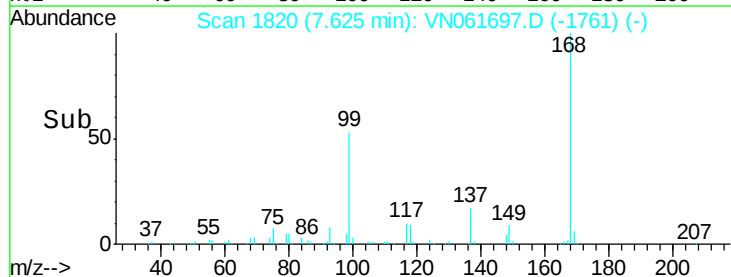
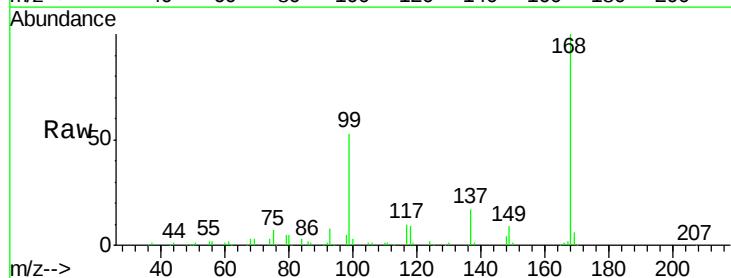
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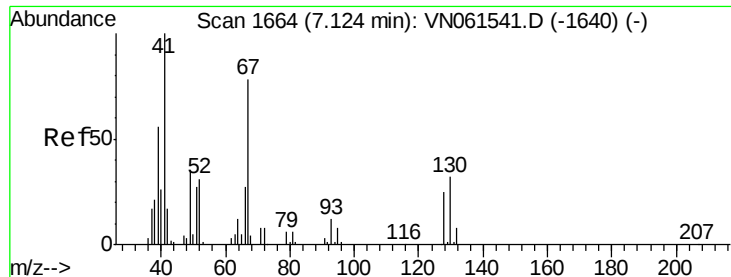
Tgt Ion: 75 Resp: 21657
 Ion Ratio Lower Upper
 75 100
 110 10.5 19.5 58.5#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.64 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061697.D
 Acq: 8 Jun 2020 15:44

Tgt Ion: 117 Resp: 30125
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.5 114.7#
 121 0.0 24.1 36.1#

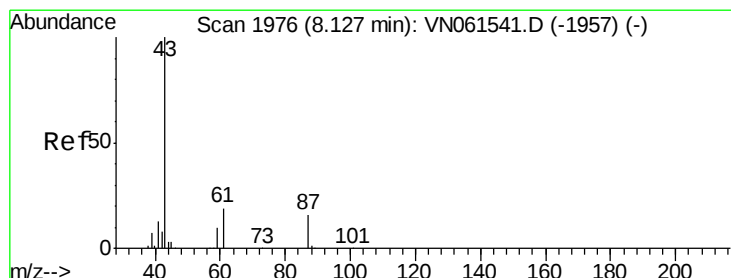
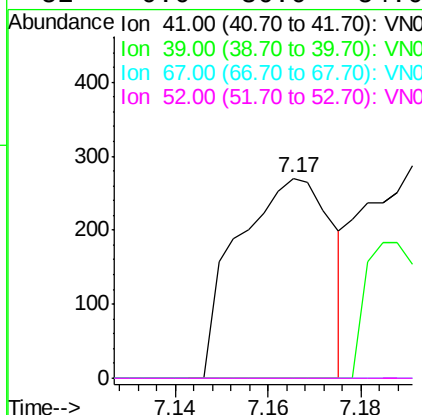
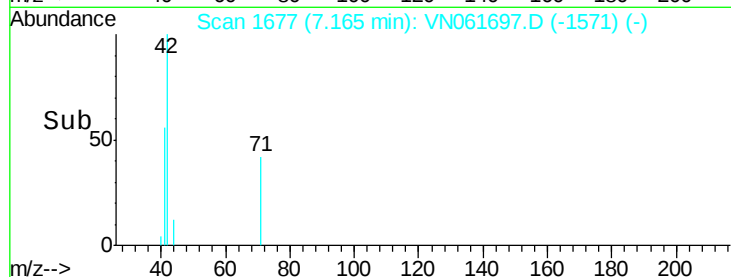
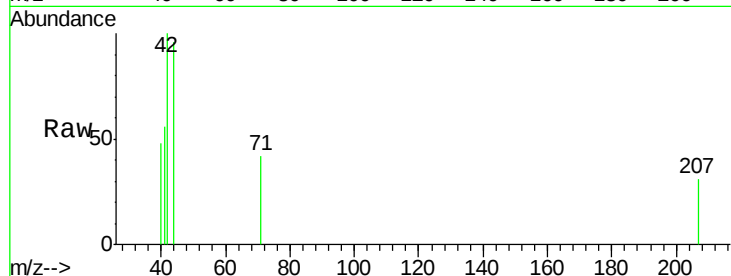




#41
Methacrylonitrile
Concen: 0.22 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.04 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

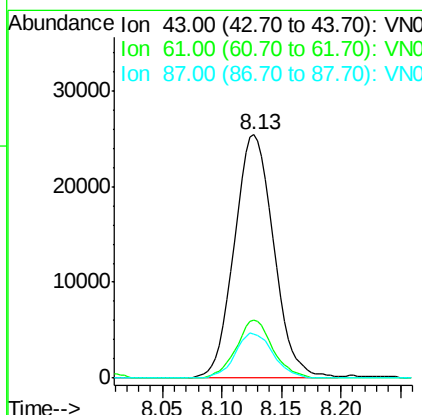
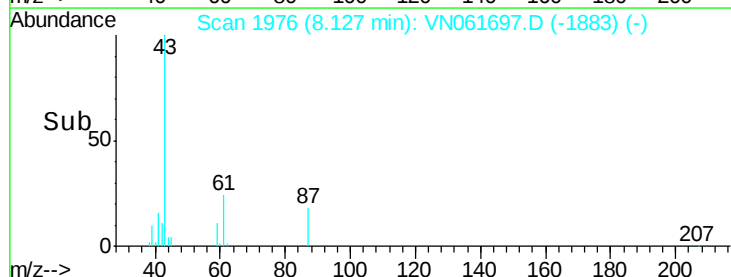
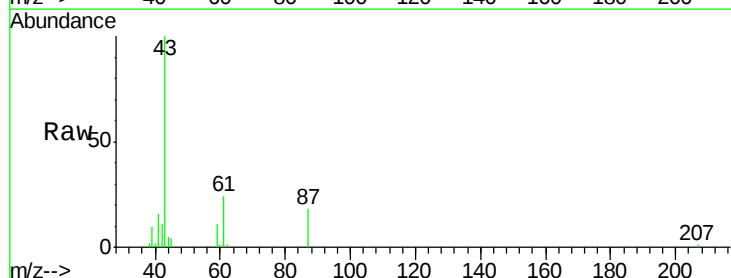
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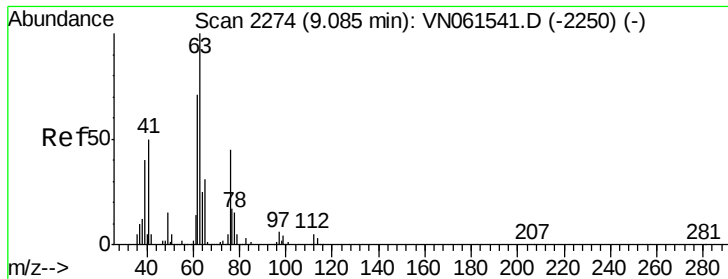
Tgt Ion: 41 Resp: 382
Ion Ratio Lower Upper
41 100
39 34.3 53.8 80.6#
67 0.0 91.1 136.7#
52 0.0 36.0 54.0#



#43
Isopropyl Acetate
Concen: 8.57 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

Tgt Ion: 43 Resp: 58388
Ion Ratio Lower Upper
43 100
61 22.1 23.6 35.4#
87 17.6 13.0 19.6





#45

1,2-Dichloropropane

Concen: 0.40 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061697.D

Acq: 8 Jun 2020 15:44

Instrument :

MSVOA_N

ClientSampleId :

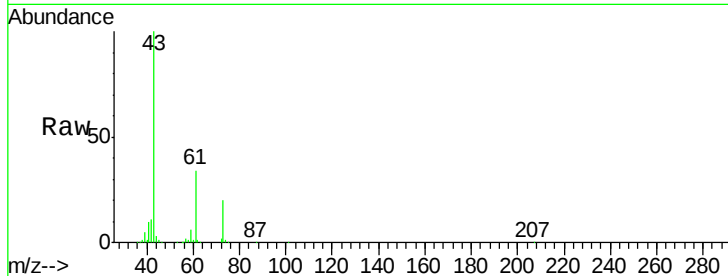
72-11979-72-11969

Tgt Ion: 63 Resp: 1371

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.23

800

600

400

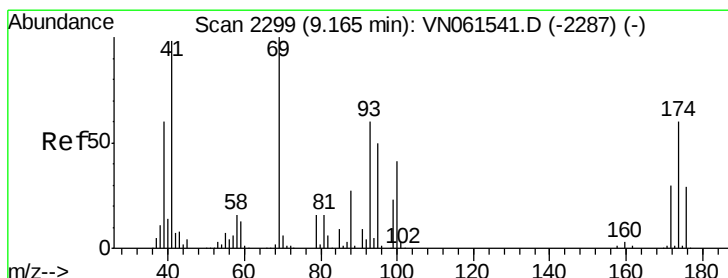
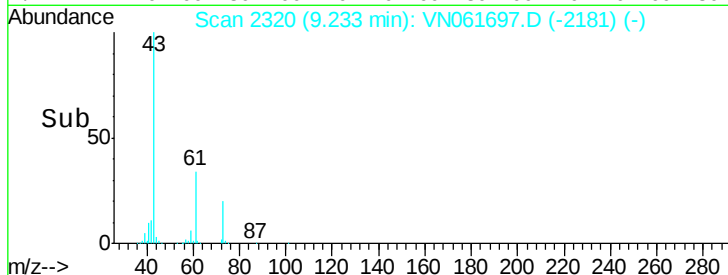
200

0

9.20

9.25

Time-->



#48

Methyl methacrylate

Concen: 1.07 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN061697.D

Acq: 8 Jun 2020 15:44

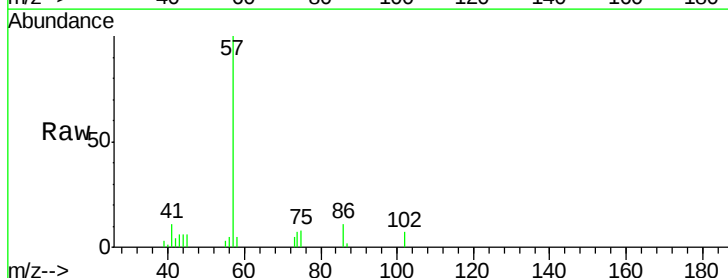
Tgt Ion: 41 Resp: 3275

Ion Ratio Lower Upper

41 100

69 0.0 83.9 125.9#

39 0.0 52.1 78.1#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

50000

40000

30000

20000

10000

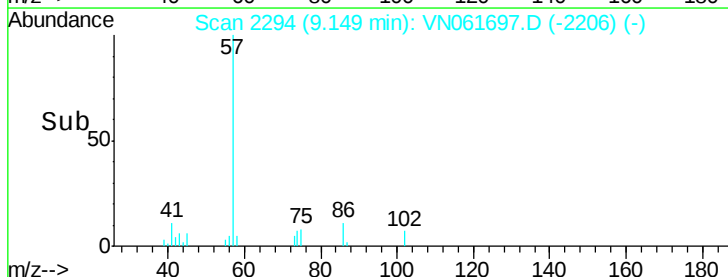
0

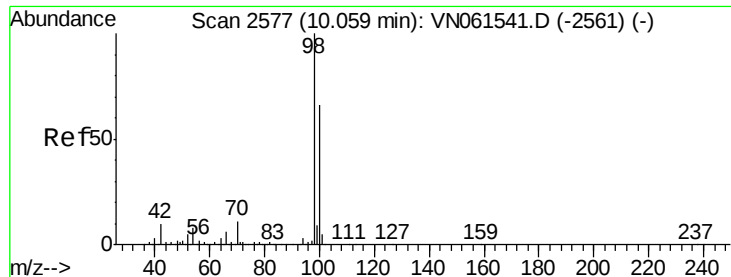
9.10

9.15

9.20

Time-->





#50

Toluene-d8

Concen: 52.29 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061697.D

Acq: 8 Jun 2020 15:44

Instrument :

MSVOA_N

ClientSampleId :

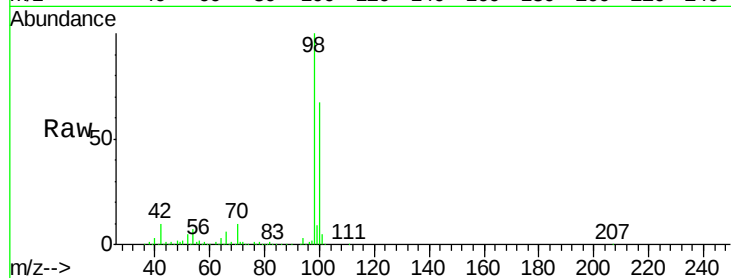
72-11979-72-11969

Tgt Ion: 98 Resp: 652717

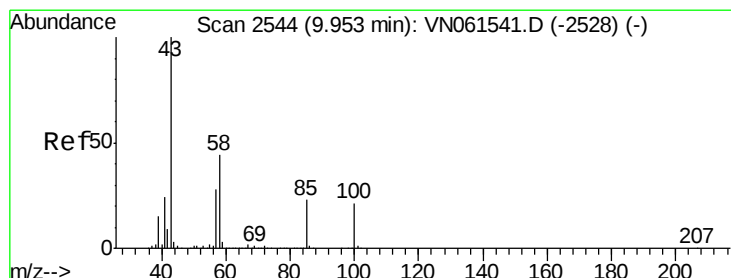
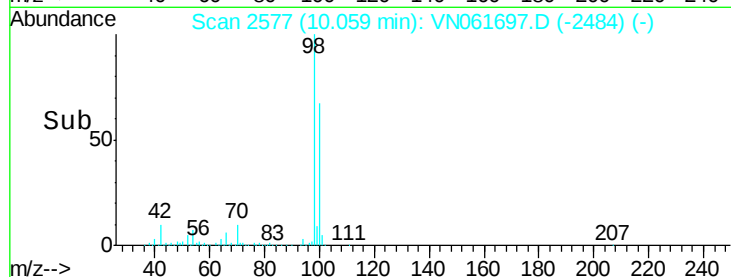
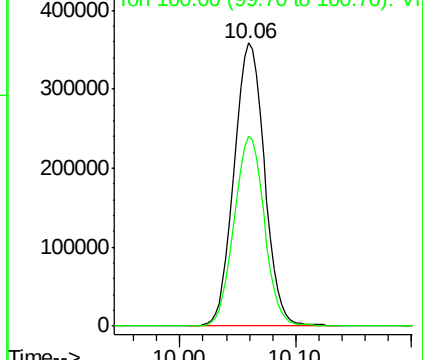
Ion Ratio Lower Upper

98 100

100 66.6 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN061541.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.65 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061697.D

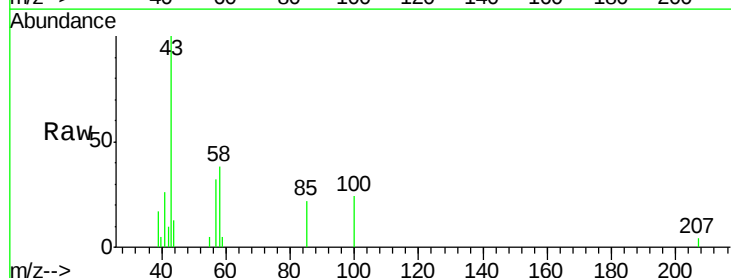
Acq: 8 Jun 2020 15:44

Tgt Ion: 43 Resp: 6337

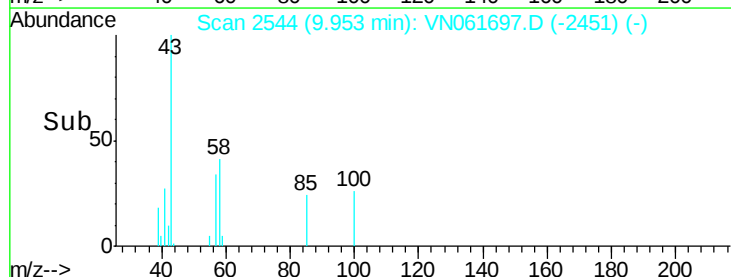
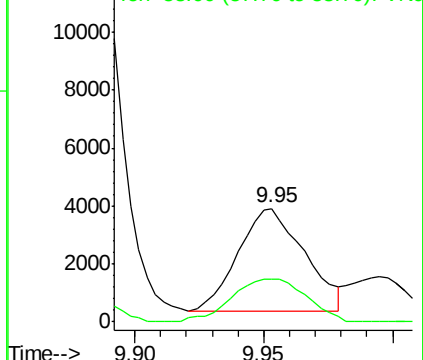
Ion Ratio Lower Upper

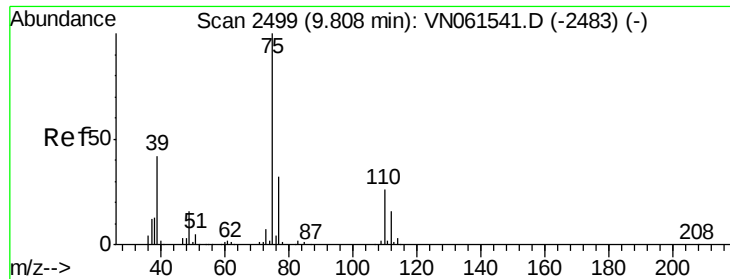
43 100

58 47.2 35.0 52.6



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-2528) (-)

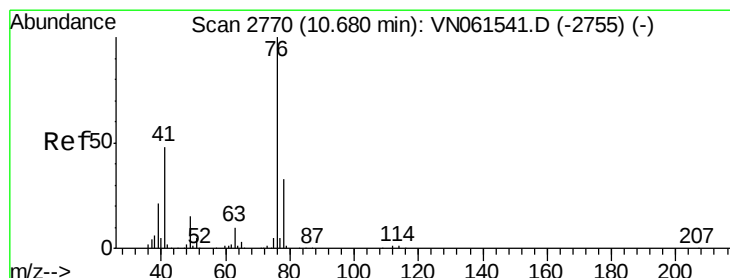
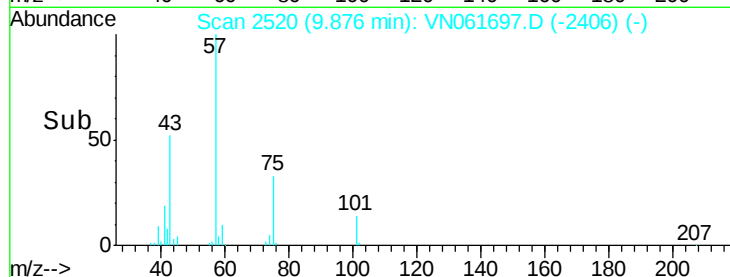
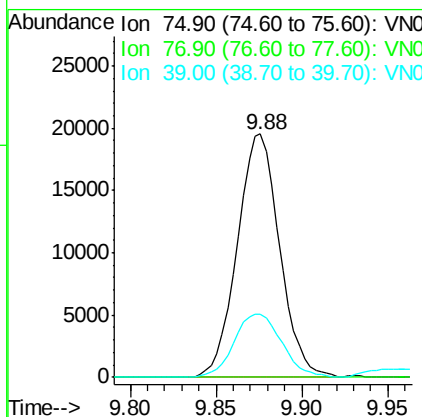
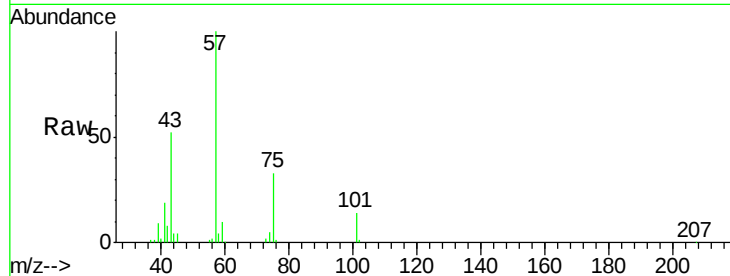




#54
 cis-1,3-Dichloropropene
 Concen: 5.52 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061697.D
 Acq: 8 Jun 2020 15:44

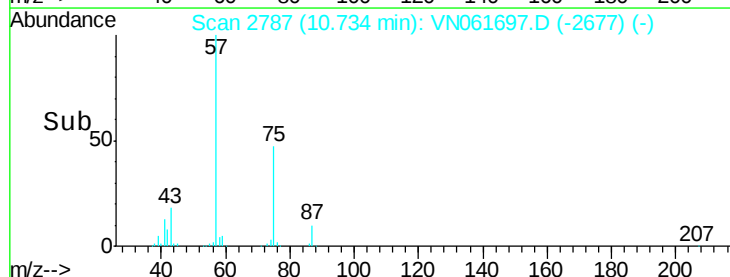
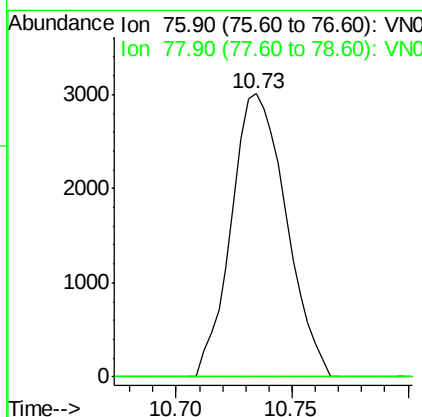
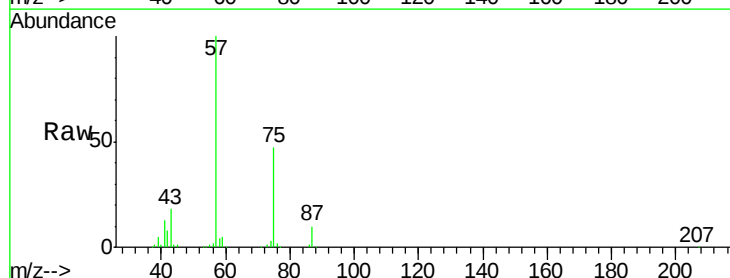
Instrument :
 MSVOA_N
 ClientSampleId :
 72-11979-72-11969

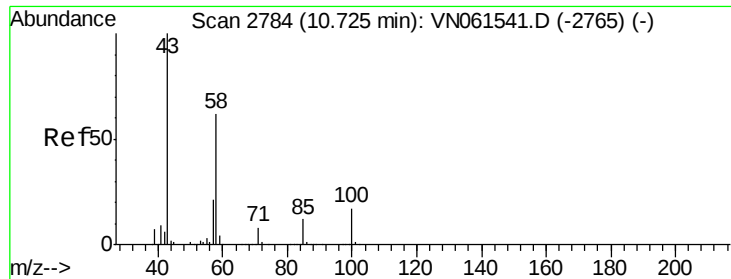
Tgt Ion: 75 Resp: 33454
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 25.8 33.8 50.6#



#57
 1,3-Dichloropropane
 Concen: 0.82 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN061697.D
 Acq: 8 Jun 2020 15:44

Tgt Ion: 76 Resp: 4942
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#

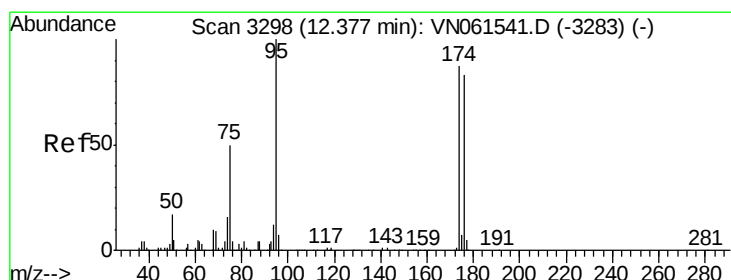
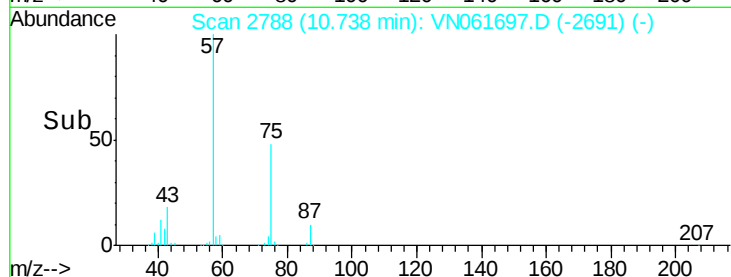
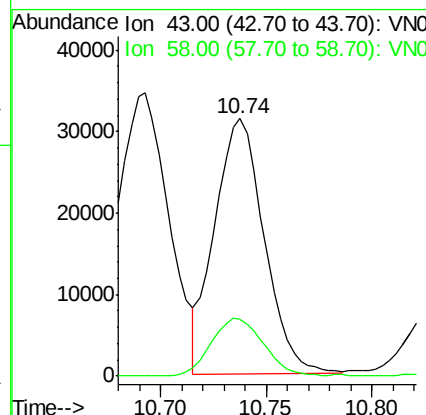
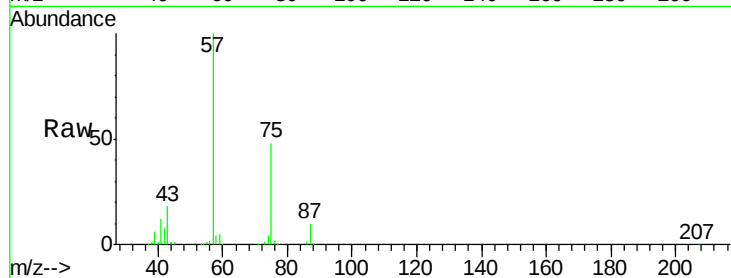




#59
2-Hexanone
Concen: 18.57 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

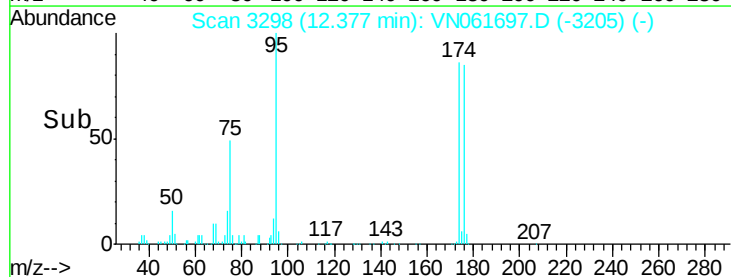
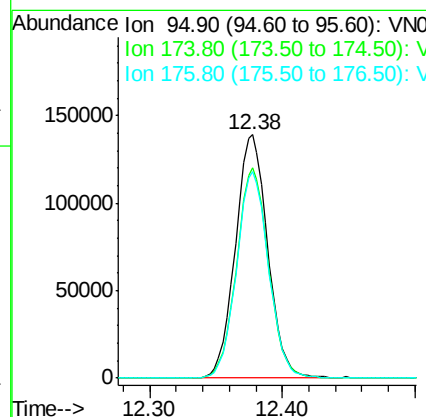
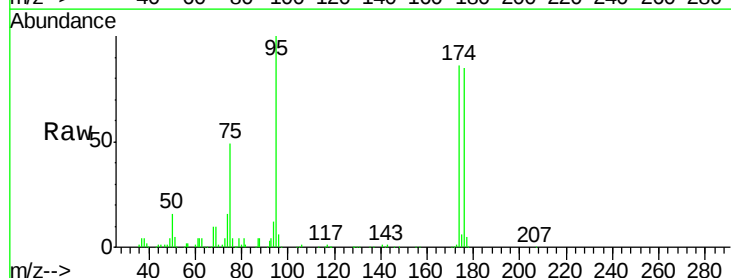
Instrument :
MSVOA_N
ClientSampleId :
72-11979-72-11969

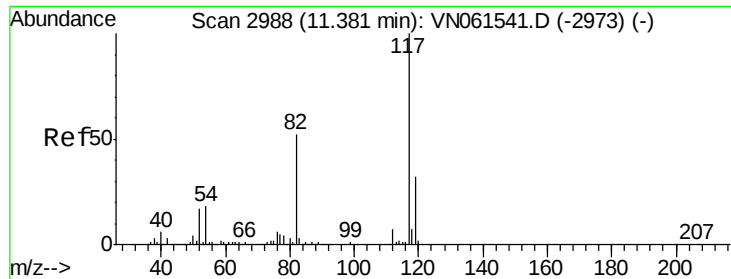
Tgt Ion: 43 Resp: 51188
Ion Ratio Lower Upper
43 100
58 23.9 30.7 92.1#



#62
4-Bromofluorobenzene
Concen: 51.65 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

Tgt Ion: 95 Resp: 235244
Ion Ratio Lower Upper
95 100
174 85.5 0.0 172.8
176 84.0 0.0 164.8

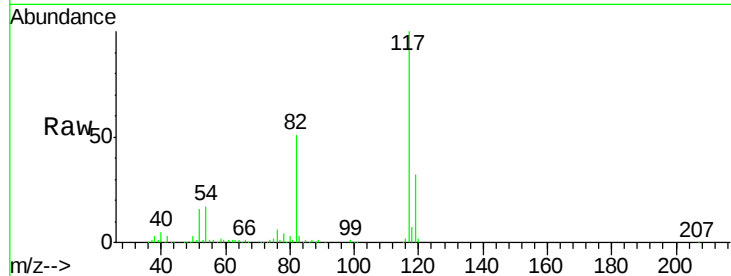




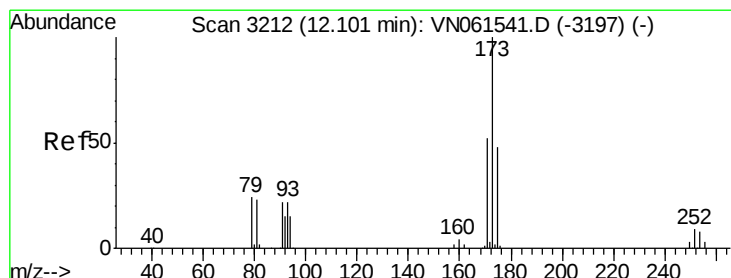
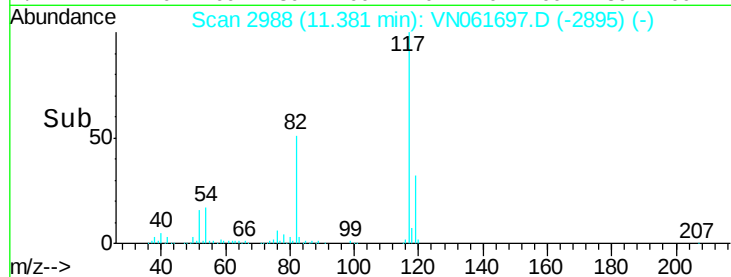
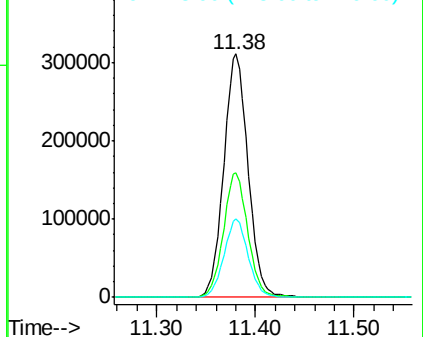
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

Instrument :
MSVOA_N
ClientSampleId :
72-11979-72-11969

Tgt Ion:117 Resp: 538520
Ion Ratio Lower Upper
117 100
82 51.0 41.5 62.3
119 32.2 25.6 38.4

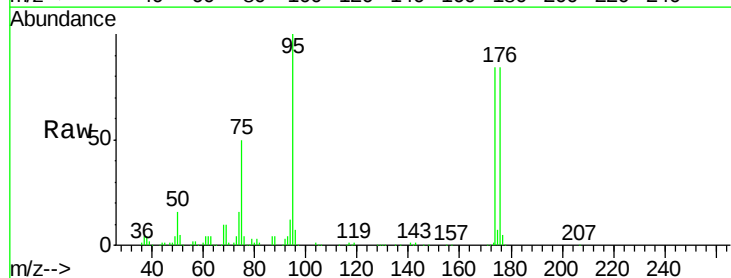


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

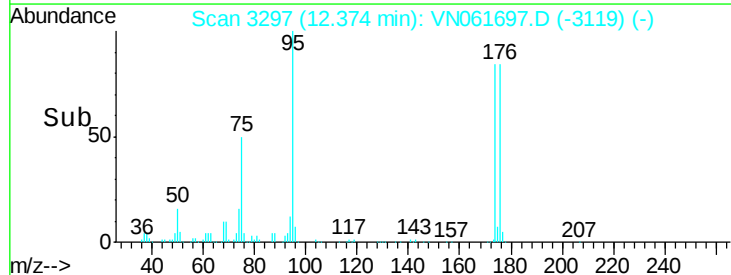
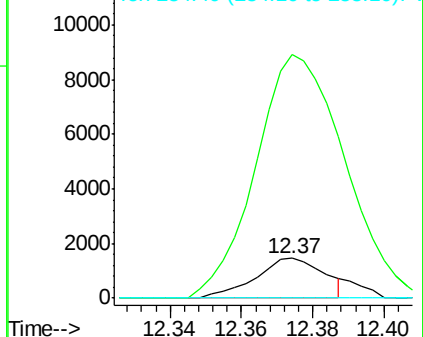


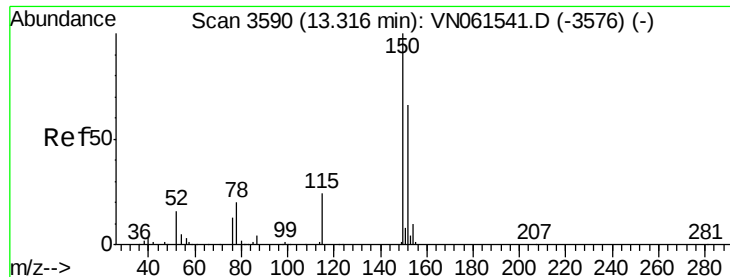
#71
Bromoform
Concen: 0.60 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN061697.D
Acq: 8 Jun 2020 15:44

Tgt Ion:173 Resp: 1940
Ion Ratio Lower Upper
173 100
175 668.0 24.4 73.2#
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: 50.00 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061697.D

Acq: 8 Jun 2020 15:44

Instrument :

MSVOA_N

ClientSampleId :

72-11979-72-11969

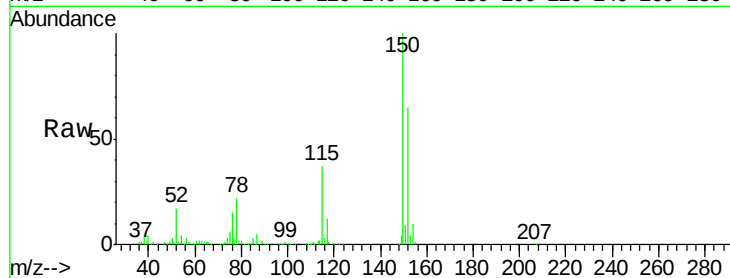
Tgt Ion:152 Resp: 241298

Ion Ratio Lower Upper

152 100

115 56.5 28.0 84.0

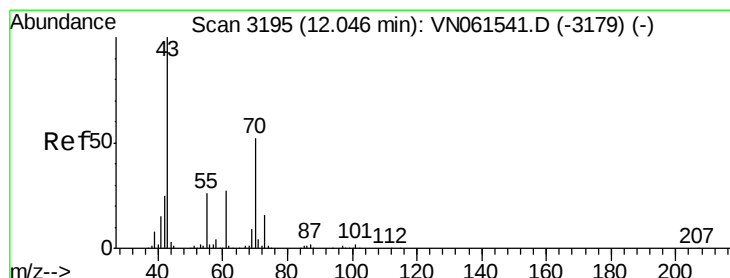
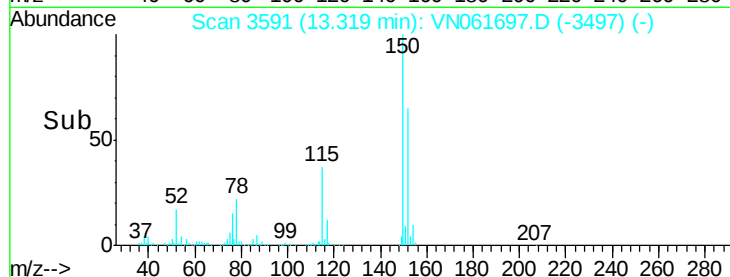
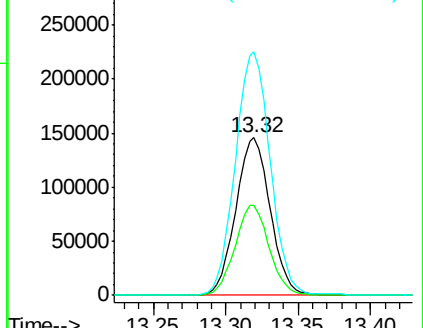
150 156.7 0.0 344.0



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: 0.36 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061697.D

Acq: 8 Jun 2020 15:44

Tgt Ion: 43 Resp: 2017

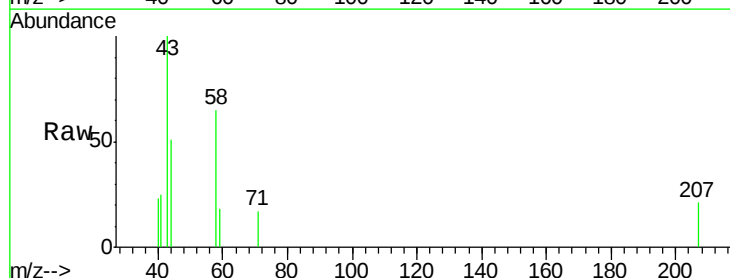
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

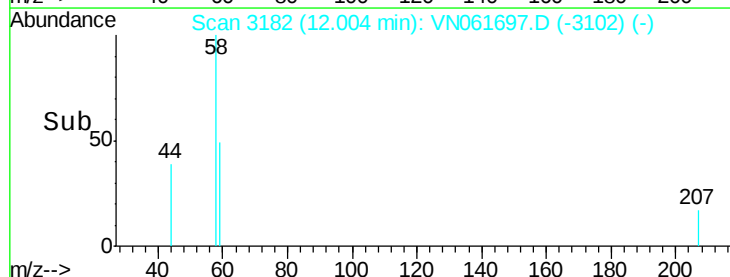
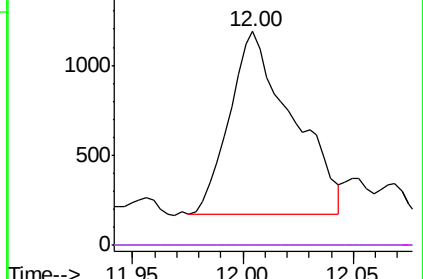


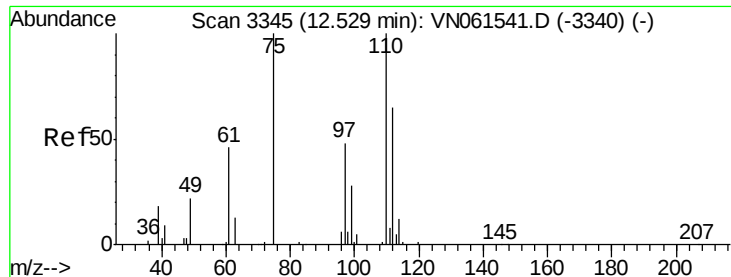
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 26.04 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061697.D

Acq: 8 Jun 2020 15:44

Instrument :

MSVOA_N

ClientSampleId :

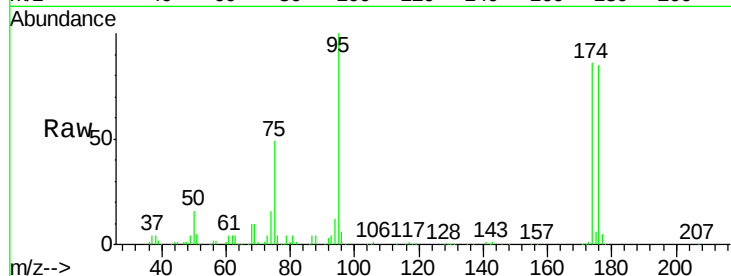
72-11979-72-11969

Tgt Ion: 75 Resp: 114270

Ion Ratio Lower Upper

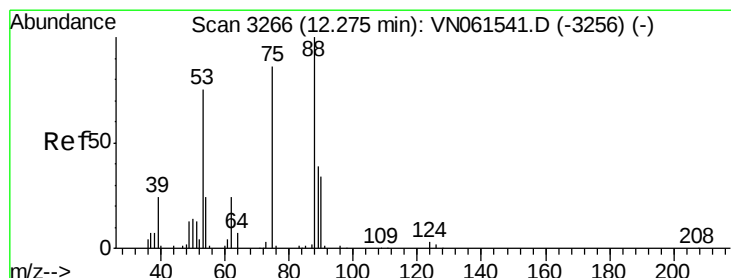
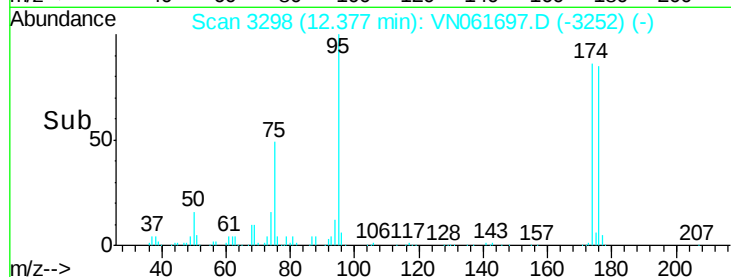
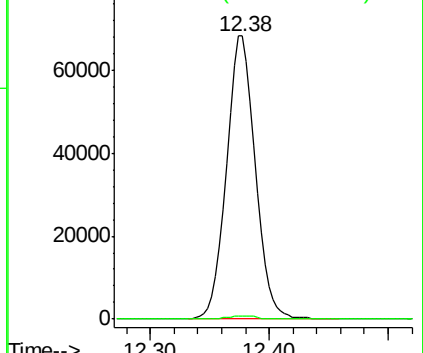
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.60 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061697.D

Acq: 8 Jun 2020 15:44

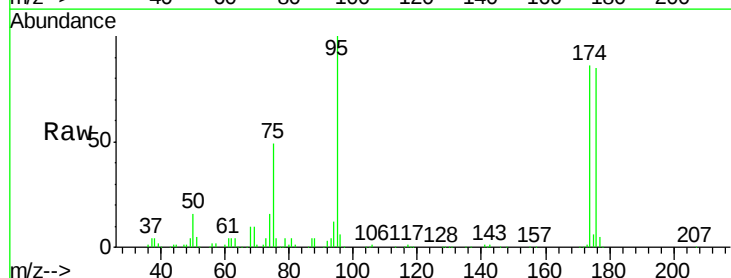
Tgt Ion: 75 Resp: 114270

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

