

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070220\
 Data File : VN062354.D
 Acq On : 2 Jul 2020 23:44
 Operator : JC/MD
 Sample : L3197-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

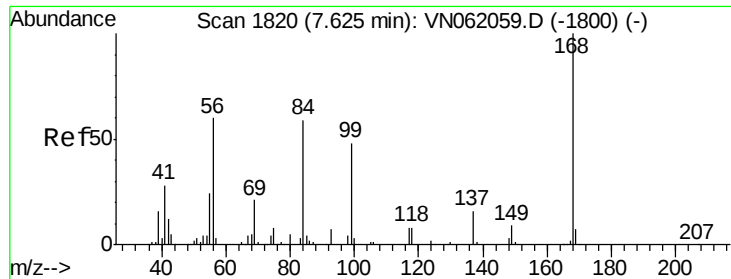
Quant Time: Jul 03 00:38:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	123032	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	259820	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	260419	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	91163	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	104915	60.77	ug/l	0.00
Spiked Amount			Recovery	=	121.54%	
35) Dibromofluoromethane	7.55	113	81817	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
50) Toluene-d8	10.06	98	341821	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
62) 4-Bromofluorobenzene	12.38	95	110231	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	102	Below Cal	#	41
8) Diethyl Ether	3.37	74	528	0.560	ug/l	61
11) Tert butyl alcohol	4.73	59	60	0.242	ug/l #	72
16) Acetone	3.77	43	9681	14.040	ug/l	96
18) Methyl Acetate	4.28	43	4178	3.044	ug/l #	65
20) Methylene Chloride	4.50	84	12335	7.599	ug/l	97
25) 2-Butanone	6.79	43	675	0.800	ug/l #	44
29) Tetrahydrofuran	7.17	42	201	0.364	ug/l #	28
31) Cyclohexane	7.62	56	3242	1.359	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11215	4.294	ug/l #	47
37) Ethyl Acetate	6.80	43	1184	0.548	ug/l #	66
38) Carbon Tetrachloride	7.63	117	12774	5.188	ug/l #	16
43) Isopropyl Acetate	8.13	43	41914	11.890	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1001	0.510	ug/l #	43
48) Methyl methacrylate	9.14	41	2567	1.624	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	4888	2.373	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	20064	6.372	ug/l #	69
56) Ethyl methacrylate	10.51	69	883	0.347	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3797	1.155	ug/l #	42
59) 2-Hexanone	10.74	43	48126	32.358	ug/l #	50
71) Bromoform	12.38	173	1030	0.733	ug/l #	1
74) N-amyl acetate	12.01	43	1515	3.887	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	57884	26.972	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	57884	78.769	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

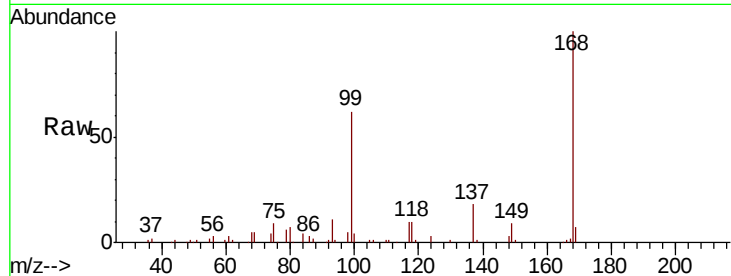
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 123032

Ion Ratio Lower Upper

168 100

99 62.0 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

60000

50000

40000

30000

20000

10000

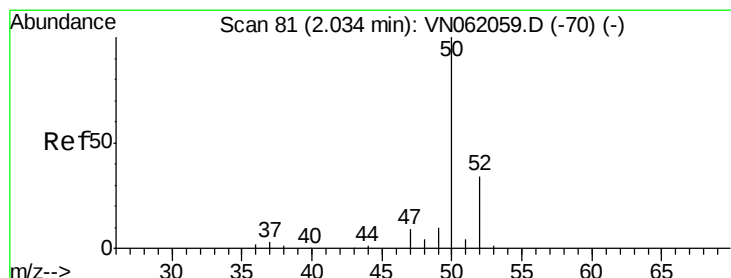
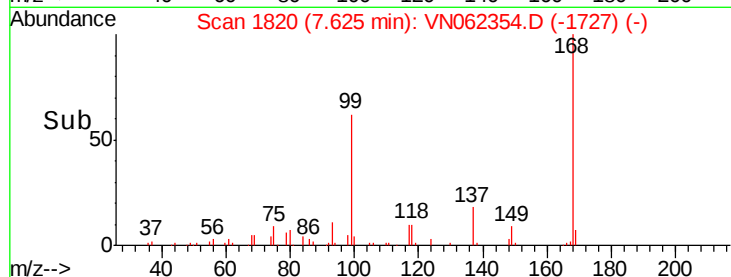
0

7.63

7.60

7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062354.D

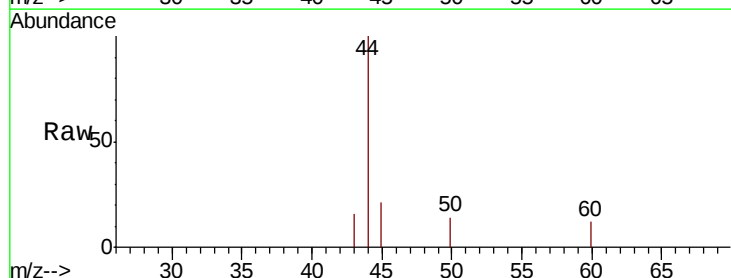
Acq: 2 Jul 2020 23:44

Tgt Ion: 50 Resp: 102

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

200

150

100

50

0

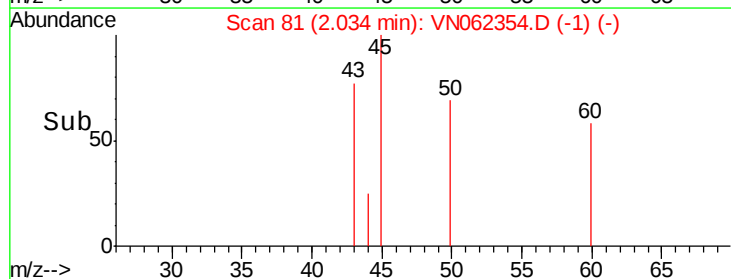
2.03

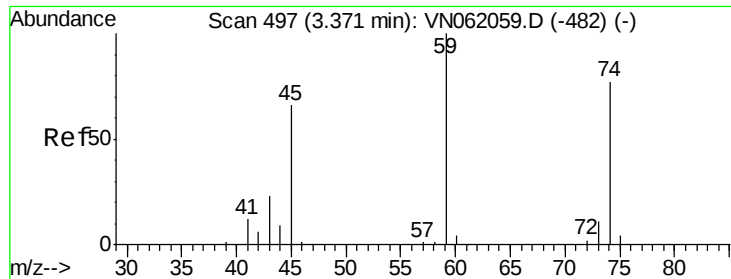
2.02

2.04

2.05

Time-->





#8

Diethyl Ether

Concen: 0.560 ug/l

RT: 3.37 min Scan# 498

Delta R.T. 0.00 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

Instrument :

MSVOA_N

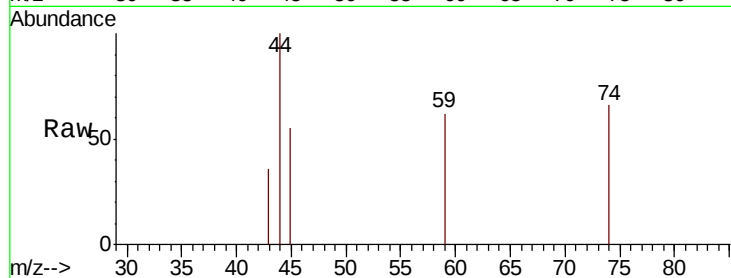
ClientSampled :

Tot Ion: 74 Resp: 528

Ion Ratio Lower Upper

74 100

45 120.3 42.5 127.5



Abundance Ion 74.00 (73.70 to 74.70): VN062059.D (-482) (-)

Ion 45.00 (44.70 to 45.70): VN062059.D (-482) (-)

3.37

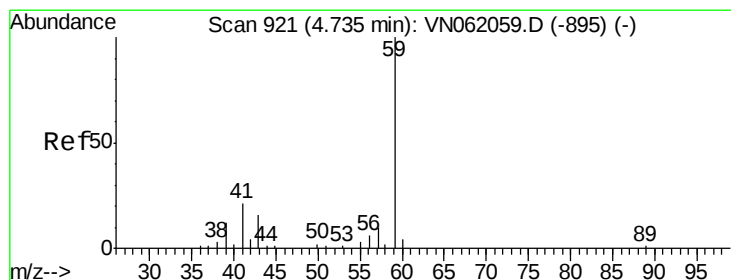
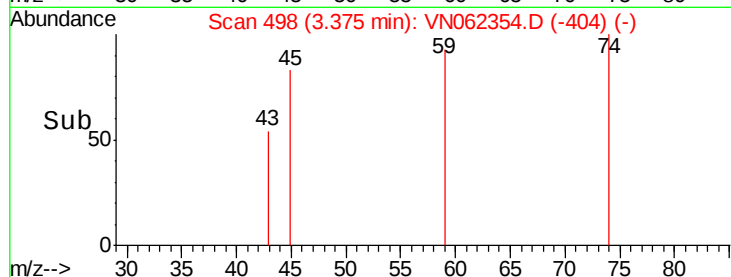
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 0.242 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.01 min

Lab File: VN062354.D

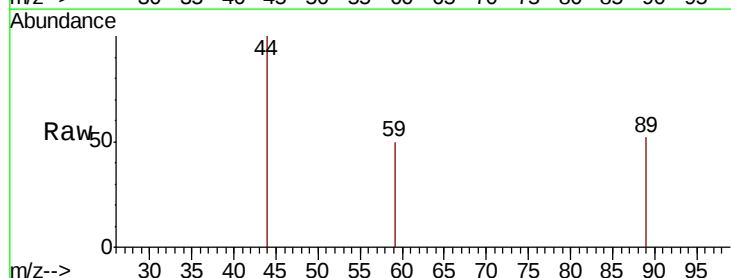
Acq: 2 Jul 2020 23:44

Tgt Ion: 59 Resp: 60

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN062059.D (-895) (-)

Ion 57.00 (56.70 to 57.70): VN062059.D (-895) (-)

4.73

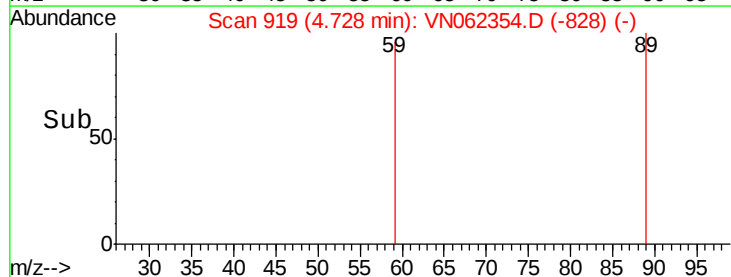
150

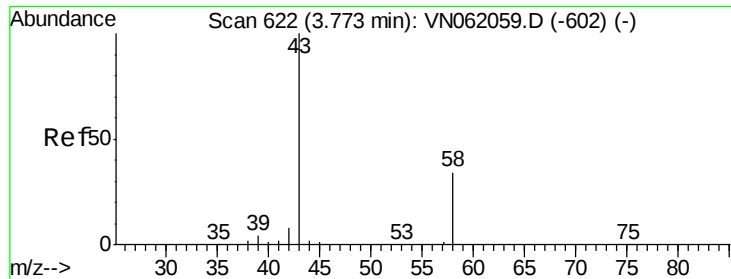
100

50

0

Time-->

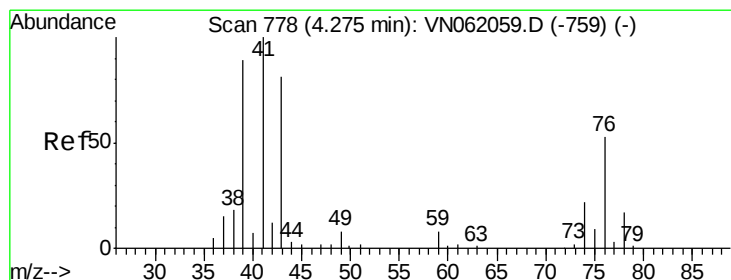
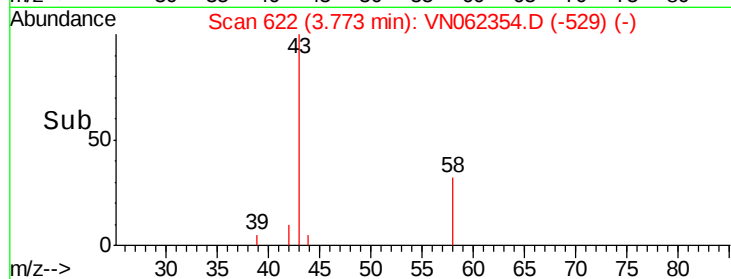
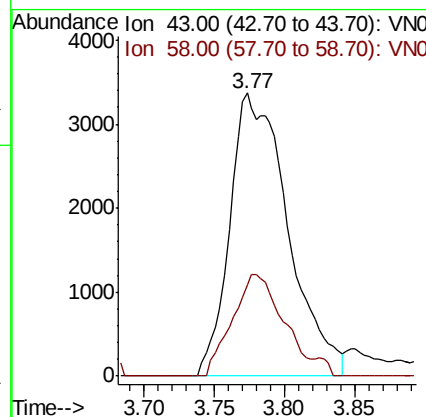
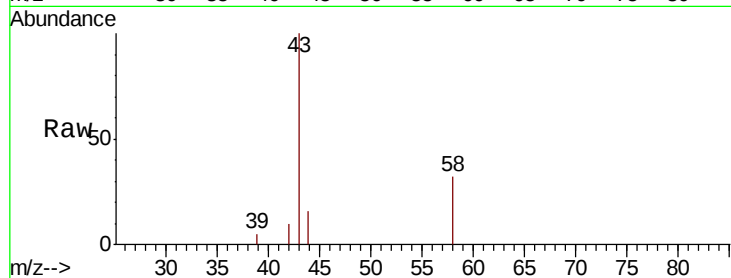




#16
Acetone
Concen: 14.040 ug/l
RT: 3.77 min Scan# 622
Delta R.T. 0.00 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

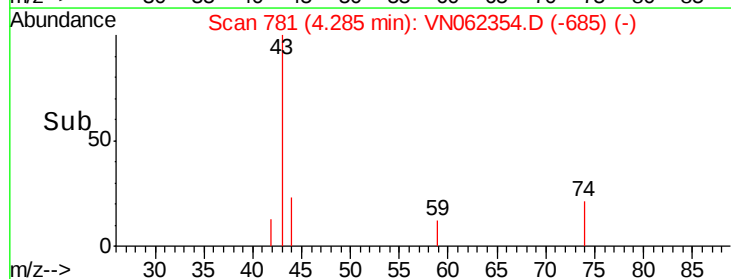
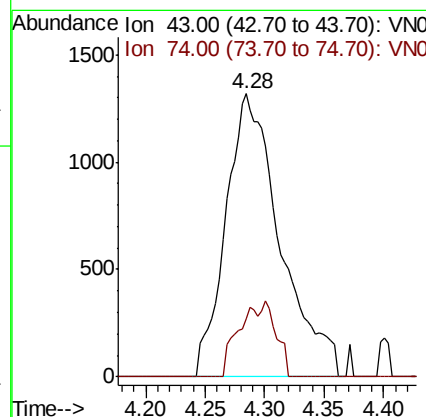
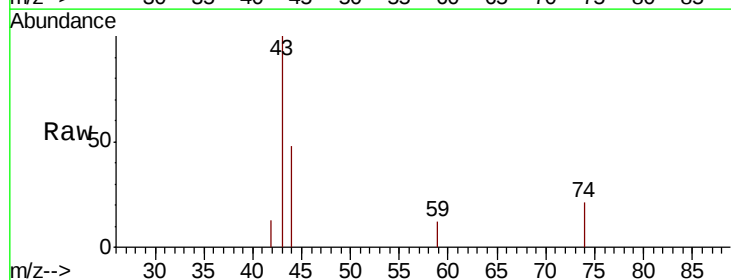
Instrument :
MSVOA_N
ClientSampleId :

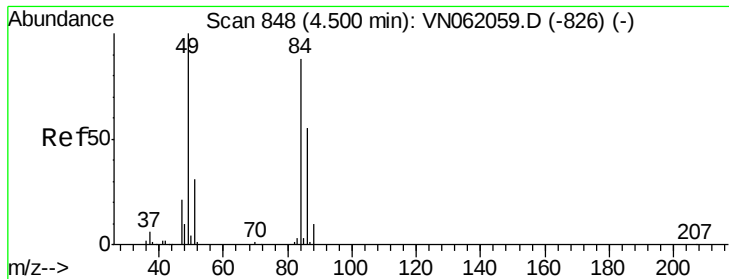
Tot Ion: 43 Resp: 9681
Ion Ratio Lower Upper
43 100
58 32.3 27.5 41.3



#18
Methyl Acetate
Concen: 3.044 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

Tgt Ion: 43 Resp: 4178
Ion Ratio Lower Upper
43 100
74 10.0 22.9 34.3#

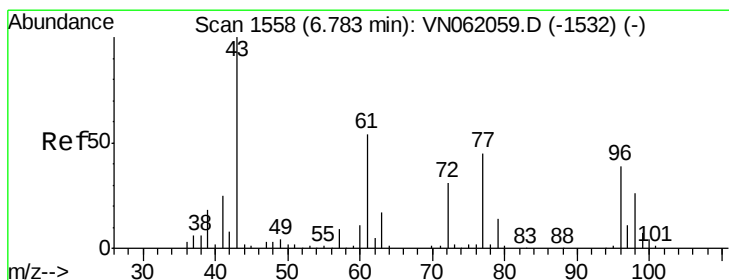
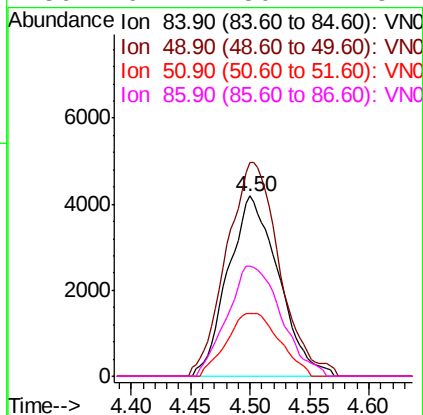
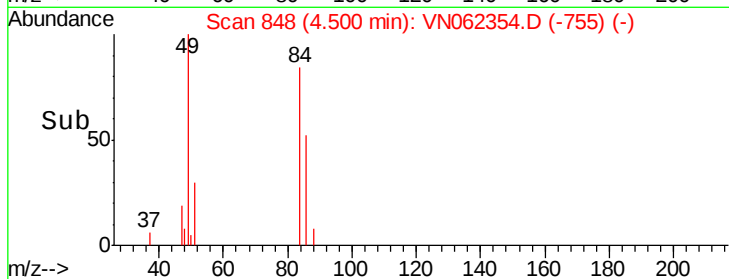
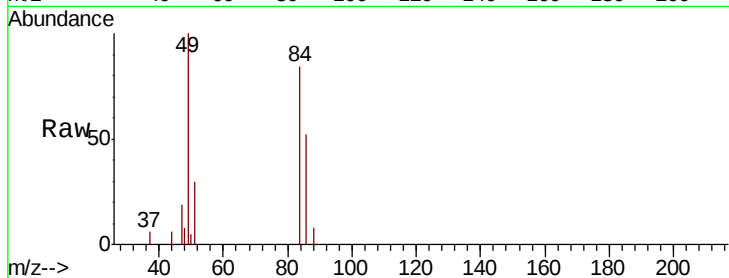




#20
Methvlene Chloride
Concen: 7.599 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

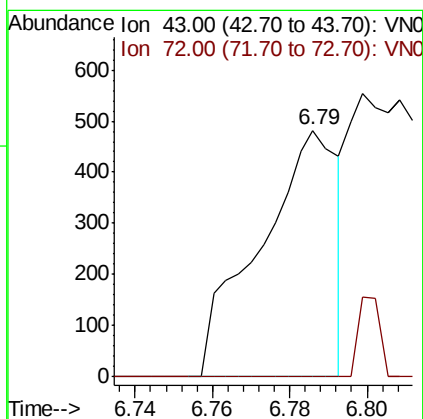
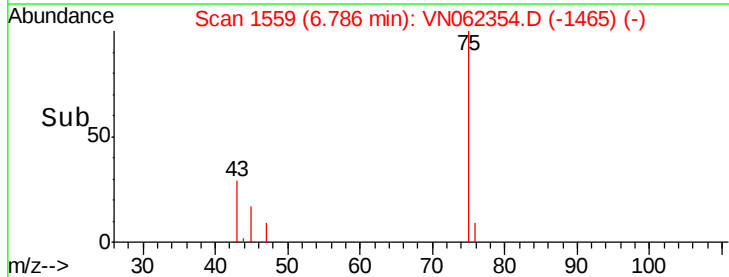
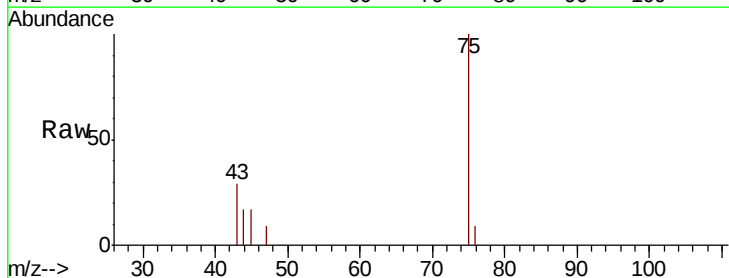
Instrument :
MSVOA_N
ClientSampleId :

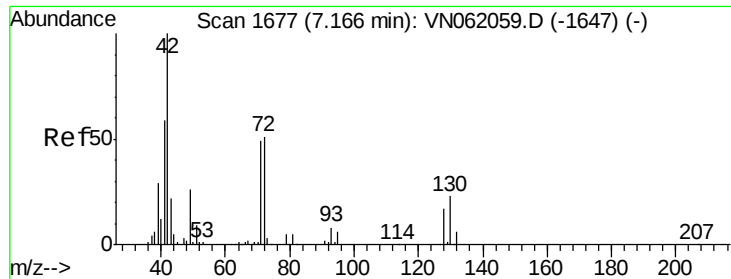
Tot Ion:	84	Resp:	12335
Ion	Ratio	Lower	Upper
84	100		
49	118.5	90.6	136.0
51	35.0	27.8	41.8
86	61.1	50.1	75.1



#25
2-Butanone
Concen: 0.800 ug/l
RT: 6.79 min Scan# 1559
Delta R.T. 0.00 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

Tgt Ion:	43	Resp:	675
Ion	Ratio	Lower	Upper
43	100		
72	0.0	24.8	37.2#

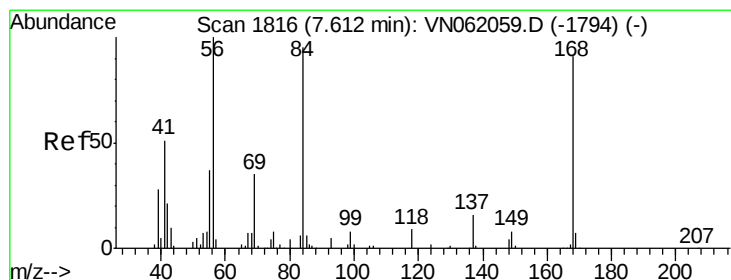
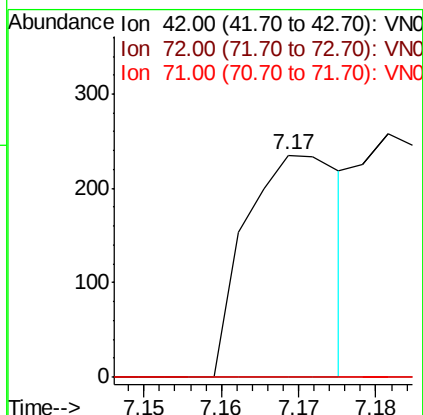
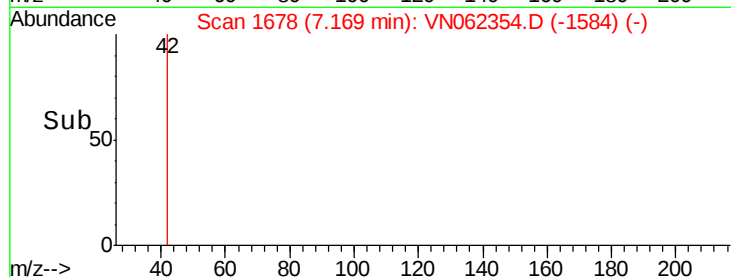
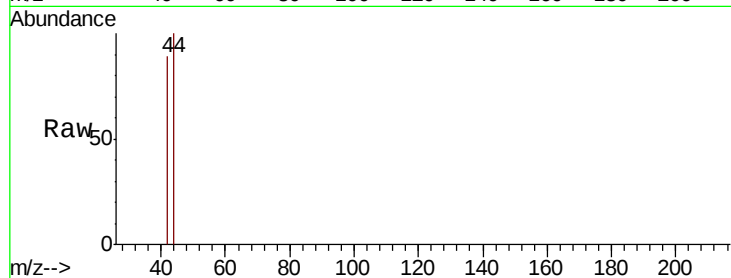




#29
Tetrahydrofuran
Concen: 0.364 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.00 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

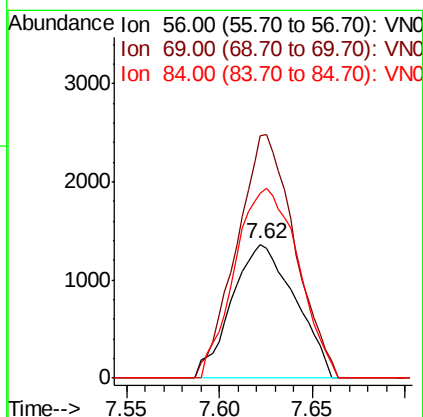
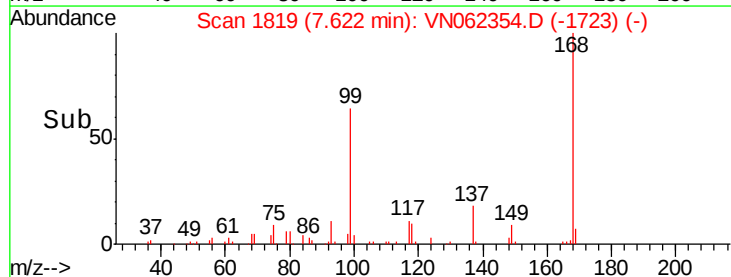
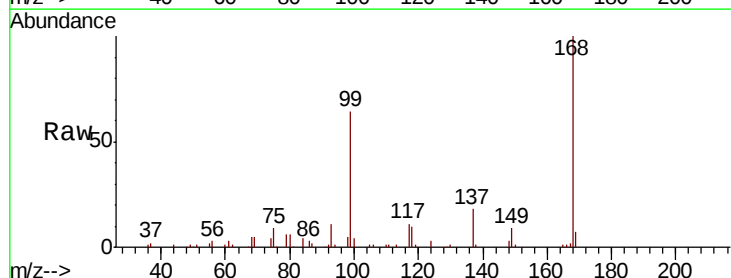
Instrument :
MSVOA_N
ClientSampleId :

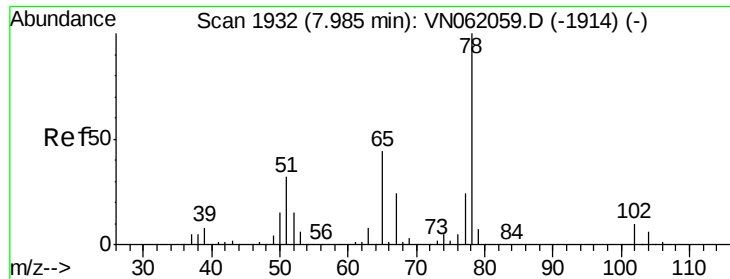
Tot Ion: 42 Resp: 201
Ion Ratio Lower Upper
42 100
72 0.0 41.1 61.7#
71 0.0 38.2 57.4#



#31
Cyclohexane
Concen: 1.359 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. 0.01 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

Tgt Ion: 56 Resp: 3242
Ion Ratio Lower Upper
56 100
69 180.8 28.0 42.0#
84 138.4 76.1 114.1#





#33

1,2-Dichloroethane-d4

Concen: 60.766 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

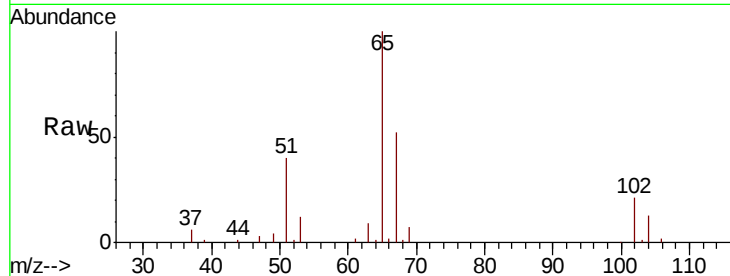
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 104915

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN062354.D (-1839) (-)

Ion 66.90 (66.60 to 67.60): VN062354.D (-1839) (-)

7.99

50000

40000

30000

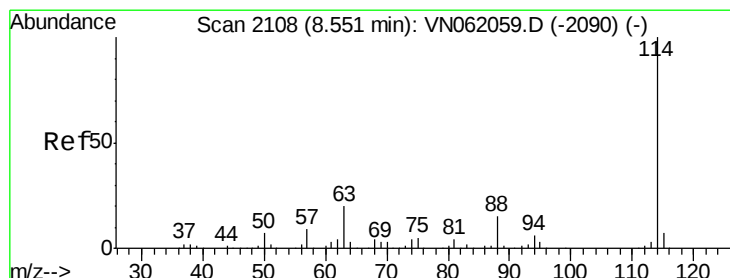
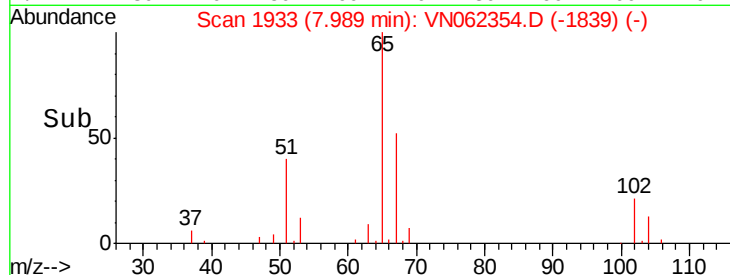
20000

10000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

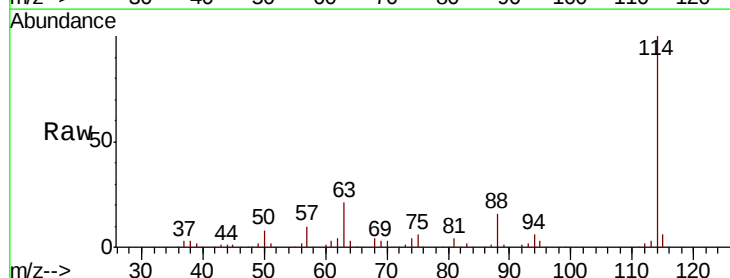
Tgt Ion: 114 Resp: 259820

Ion Ratio Lower Upper

114 100

63 21.2 0.0 39.2

88 16.0 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): VN062354.D (-2155) (-)

Ion 63.00 (62.70 to 63.70): VN062354.D (-2155) (-)

Ion 87.90 (87.60 to 88.60): VN062354.D (-2155) (-)

8.55

150000

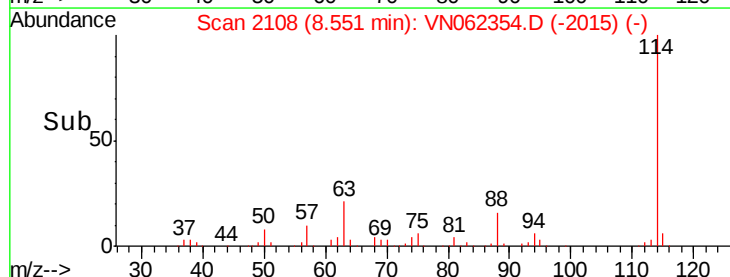
100000

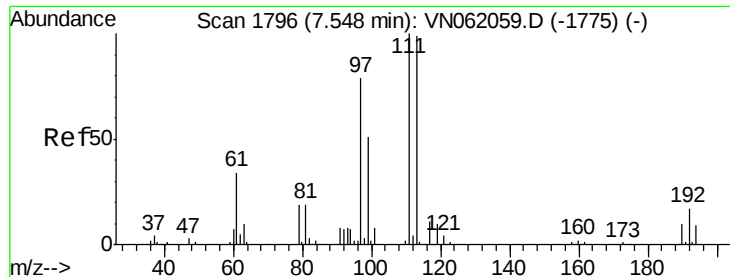
50000

0

Time-->

8.50 8.60 8.70

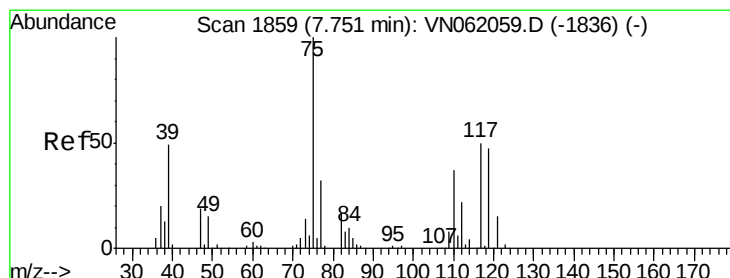
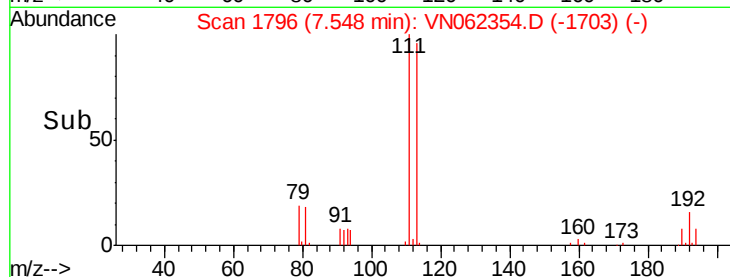
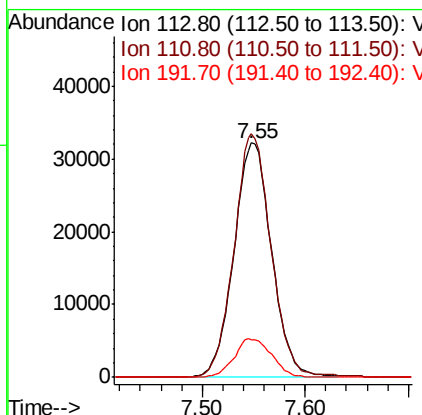
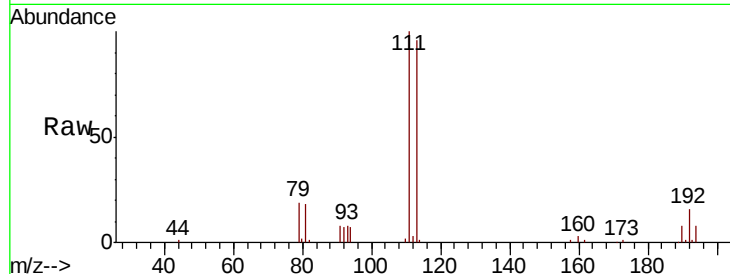




#35
 Dibromofluoromethane
 Concen: 49.084 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062354.D
 Acq: 2 Jul 2020 23:44

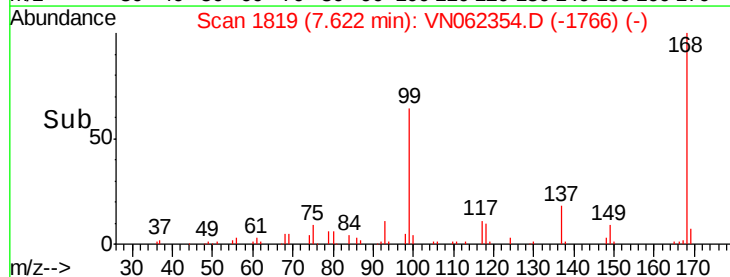
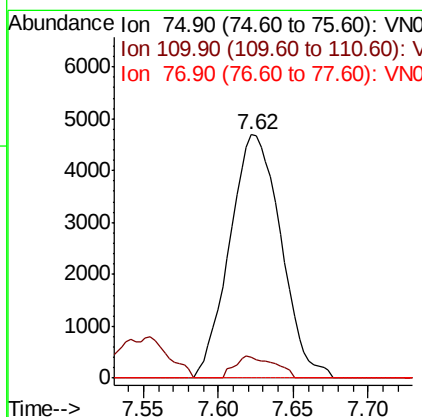
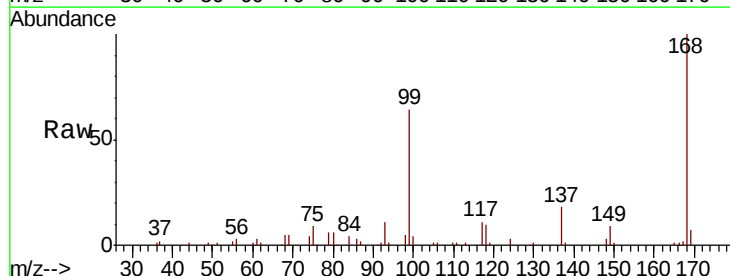
Instrument :
 MSVOA_N
 ClientSampleId :

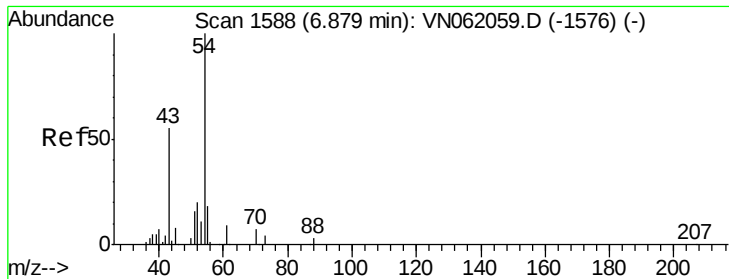
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.2	123.4
192	16.4	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.294 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062354.D
 Acq: 2 Jul 2020 23:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.9	17.9	53.8#
77	0.0	24.9	37.3#





#37

Ethyl Acetate

Concen: 0.548 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.08 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

Instrument :
MSVOA_N
ClientSampleId :

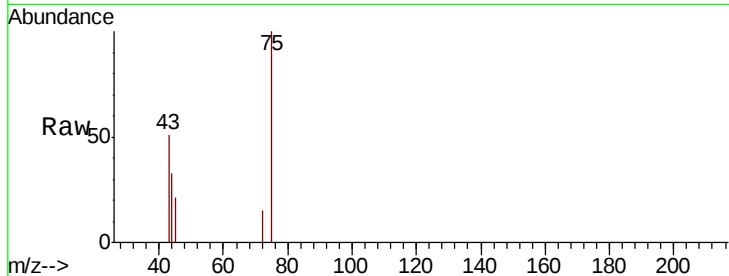
Tot Ion: 43 Resp: 1184

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): VN062059.D (-1576) (-)

Ion 60.90 (60.60 to 61.60): VN062059.D (-1576) (-)

Ion 70.00 (69.70 to 70.70): VN062059.D (-1576) (-)

6.80

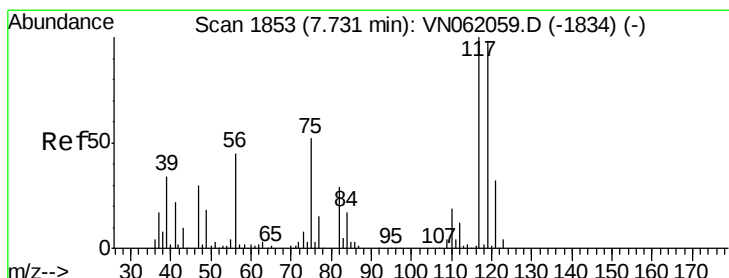
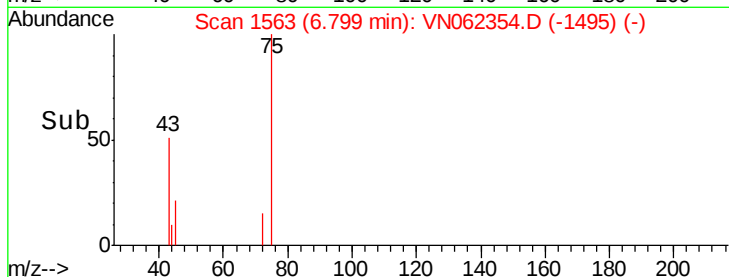
400

200

0

6.80 6.85

Time-->



#38

Carbon Tetrachloride

Concen: 5.188 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

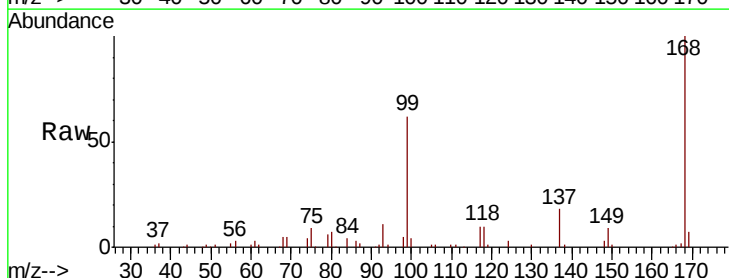
Tgt Ion: 117 Resp: 12774

Ion Ratio Lower Upper

117 100

119 5.7 78.2 117.2#

121 0.0 25.8 38.6#



Abundance Ion 116.80 (116.50 to 117.50): VN062059.D (-1834) (-)

Ion 118.80 (118.50 to 119.50): VN062059.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN062059.D (-1834) (-)

7.63

6000

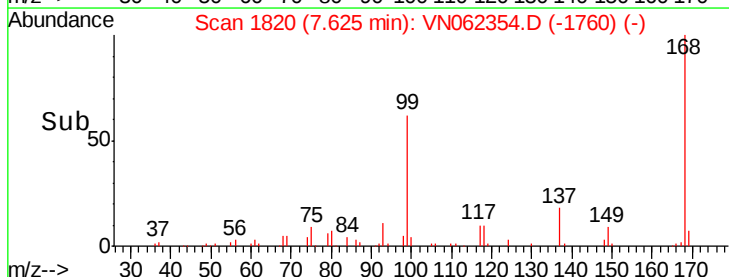
4000

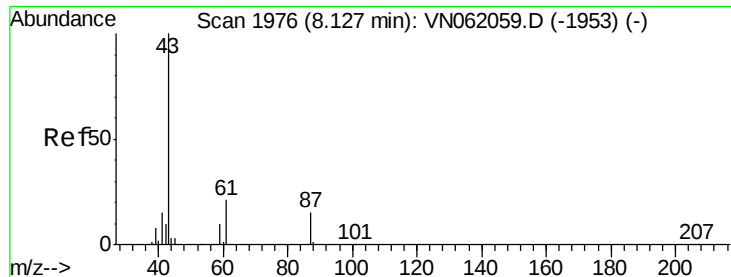
2000

0

7.55 7.60 7.65 7.70

Time-->

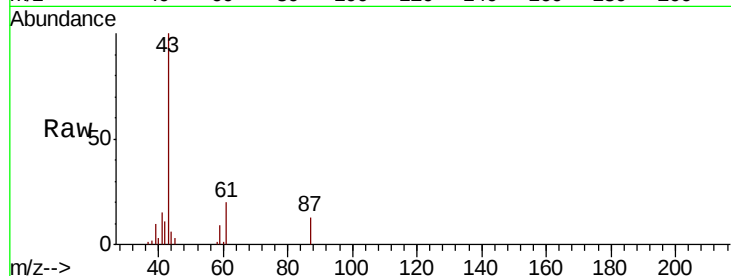




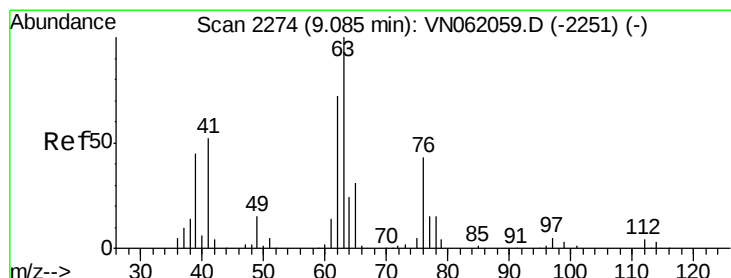
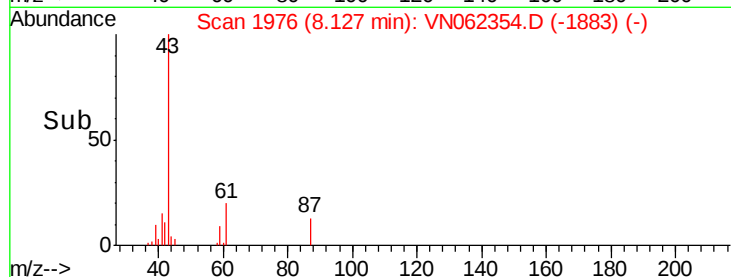
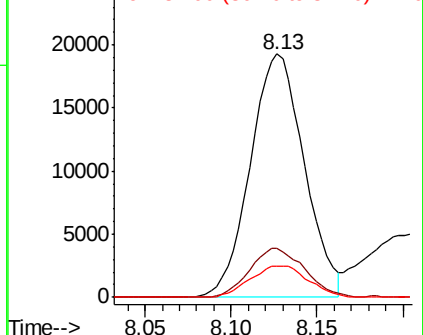
#43
Isopropyl Acetate
Concen: 11.890 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 41914
Ion Ratio Lower Upper
43 100
61 20.5 17.2 25.8
87 13.9 12.1 18.1

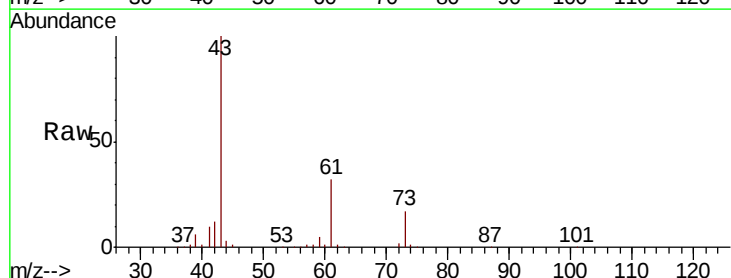


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0

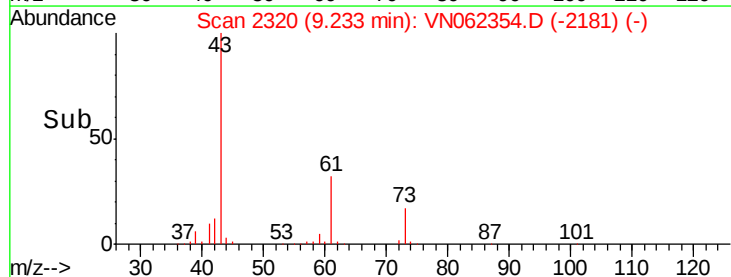
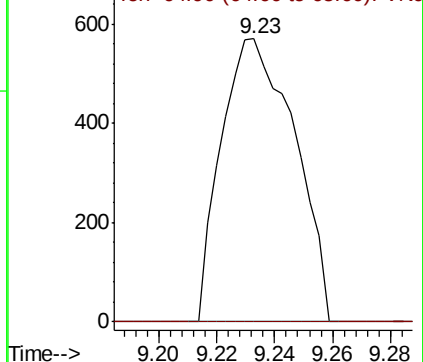


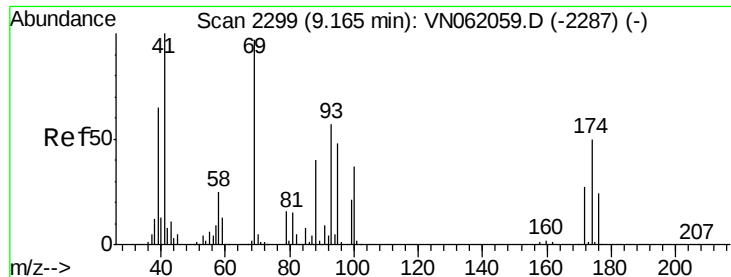
#45
1,2-Dichloropropane
Concen: 0.510 ug/l
RT: 9.23 min Scan# 2320
Delta R.T. 0.15 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

Tgt Ion: 63 Resp: 1001
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 64.90 (64.60 to 65.60): VN0

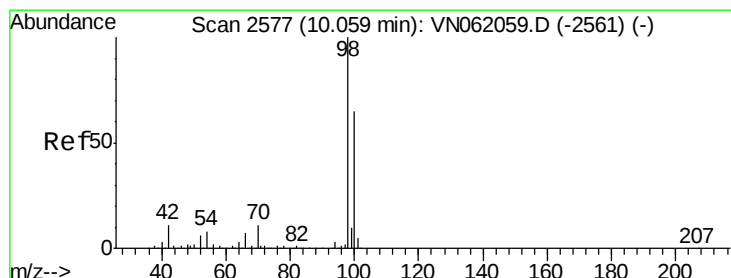
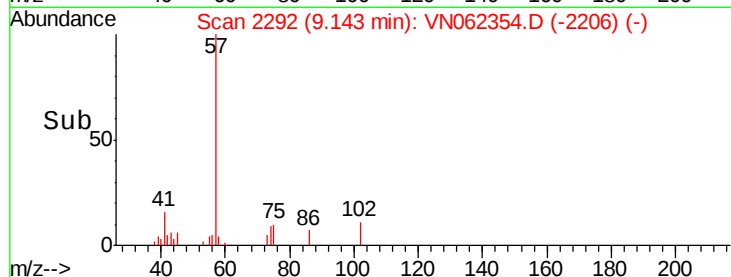
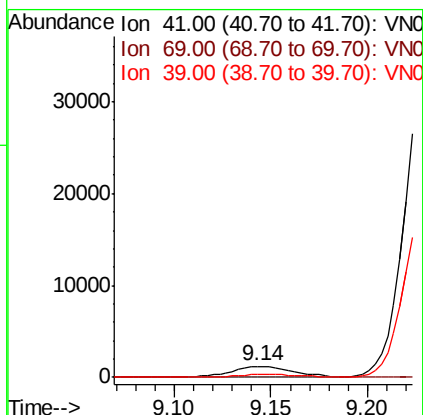
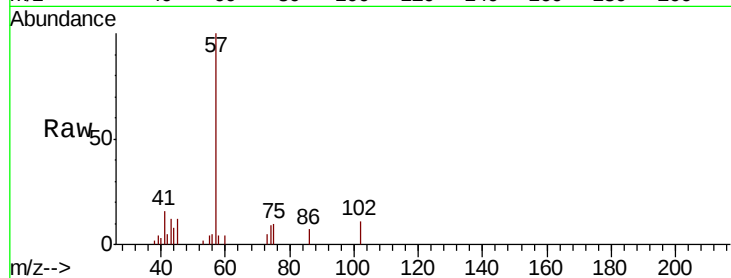




#48
Methvl methacrylate
Concen: 1.624 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

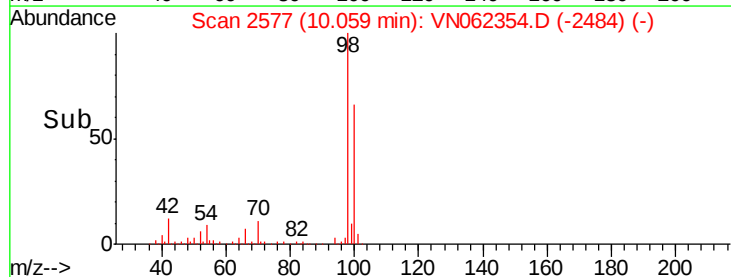
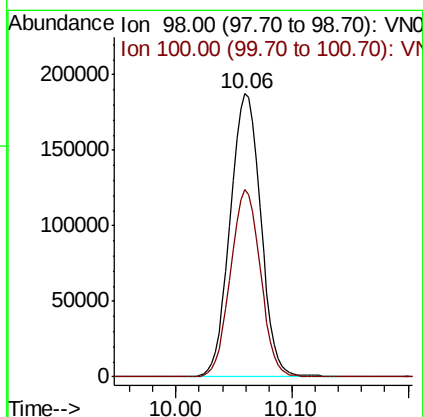
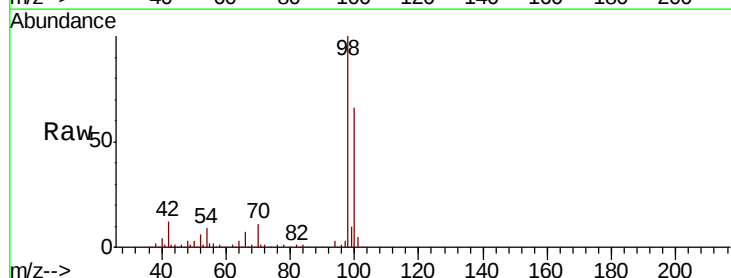
Instrument :
MSVOA_N
ClientSampleId :

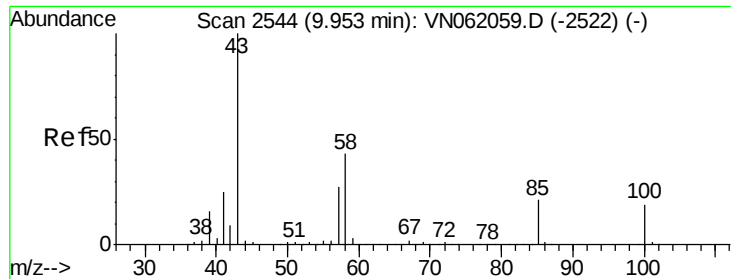
Tot Ion: 41 Resp: 2567
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 0.0 54.5 81.7#



#50
Toluene-d8
Concen: 51.301 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

Tgt Ion: 98 Resp: 341821
Ion Ratio Lower Upper
98 100
100 65.1 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 2.373 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

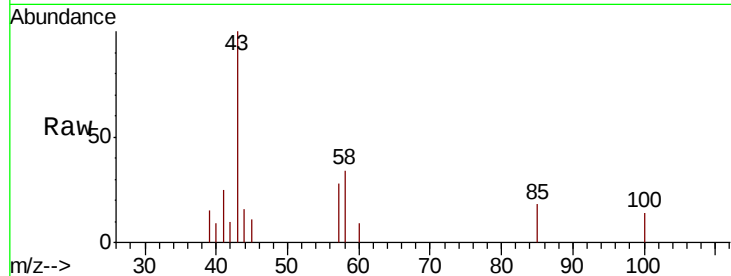
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 4888

Ion Ratio Lower Upper

43 100

58 36.0 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062059.D (-2522) (-)

8000

6000

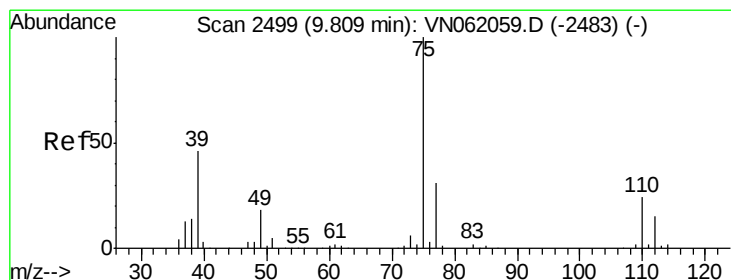
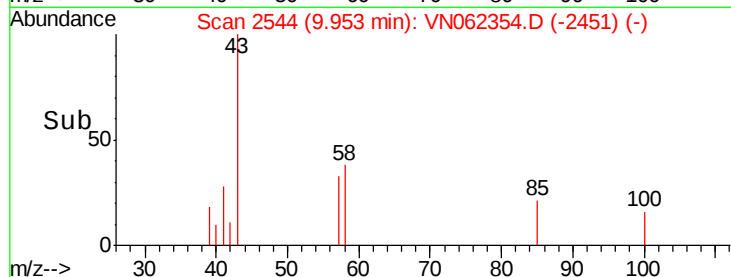
4000

2000

0

9.90 9.95

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.372 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

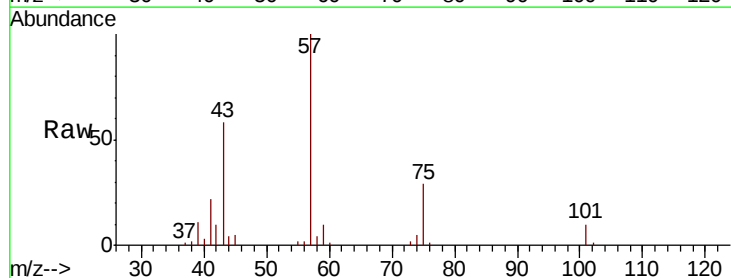
Tgt Ion: 75 Resp: 20064

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 36.9 36.9 55.3



Abundance Ion 74.90 (74.60 to 75.60): VN062059.D (-2483) (-)

Ion 76.90 (76.60 to 77.60): VN062059.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN062059.D (-2483) (-)

15000

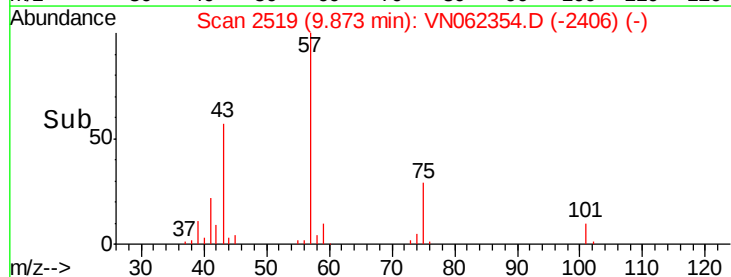
10000

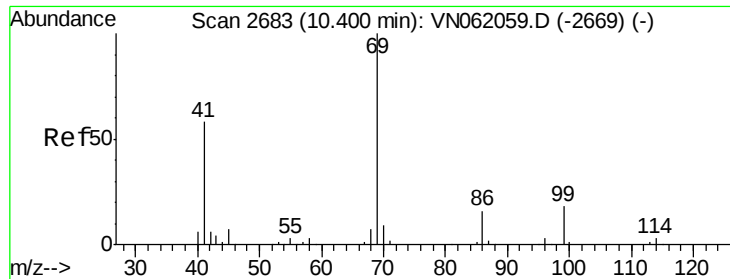
5000

0

9.80 9.85 9.90

Time-->





#56

Ethyl methacrylate

Concen: 0.347 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

Instrument :

MSVOA_N

ClientSampleId :

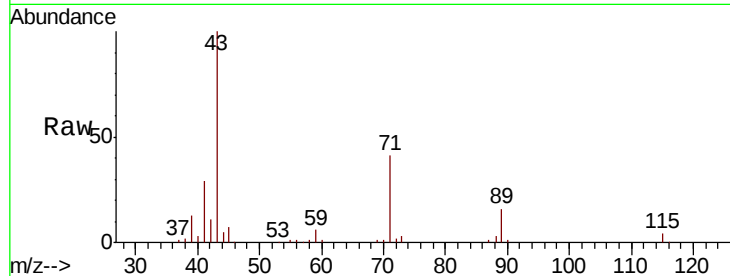
Tot Ion: 69 Resp: 883

Ion Ratio Lower Upper

69 100

41 4751.1 46.6 70.0#

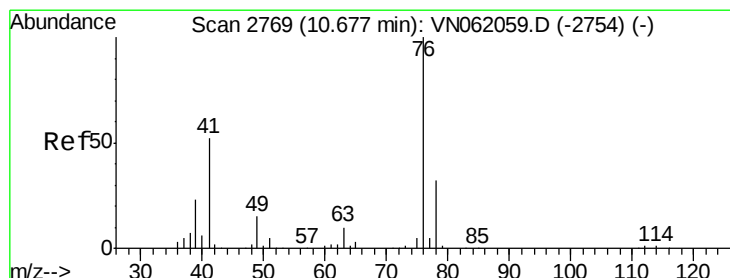
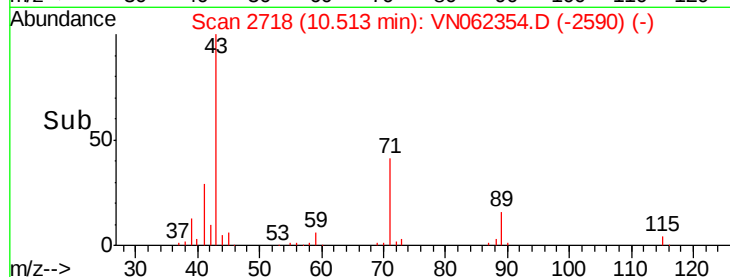
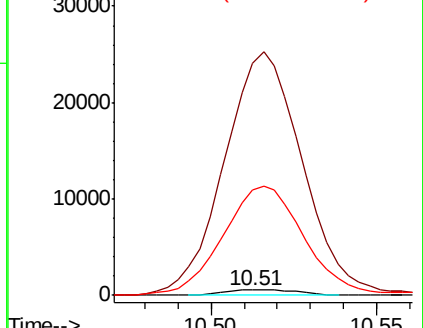
39 2219.3 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN062354.D (-2669) (-)

Ion 41.00 (40.70 to 41.70): VN062354.D (-2669) (-)

Ion 39.00 (38.70 to 39.70): VN062354.D (-2669) (-)



#57

1,3-Dichloropropane

Concen: 1.155 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062354.D

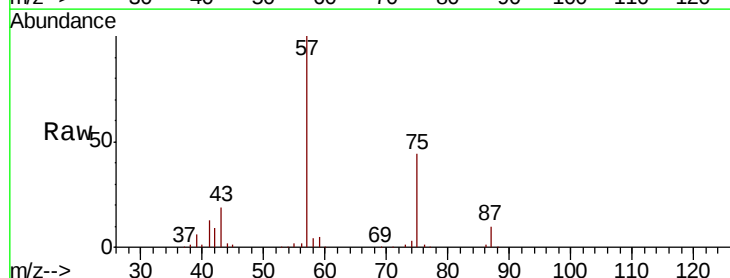
Acq: 2 Jul 2020 23:44

Tgt Ion: 76 Resp: 3797

Ion Ratio Lower Upper

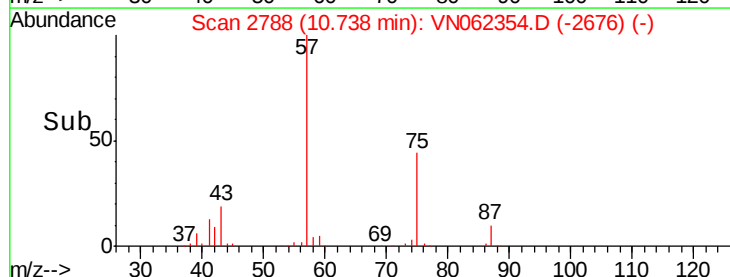
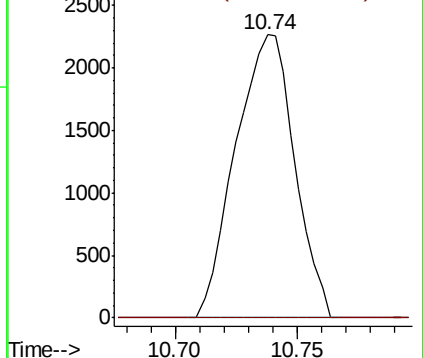
76 100

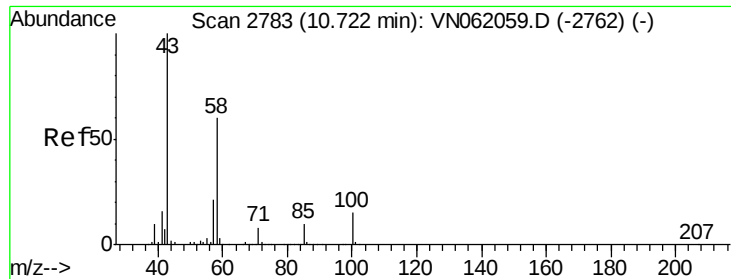
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062354.D (-2676) (-)

Ion 77.90 (77.60 to 78.60): VN062354.D (-2676) (-)

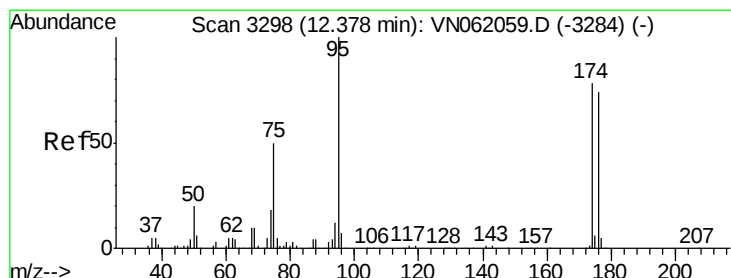
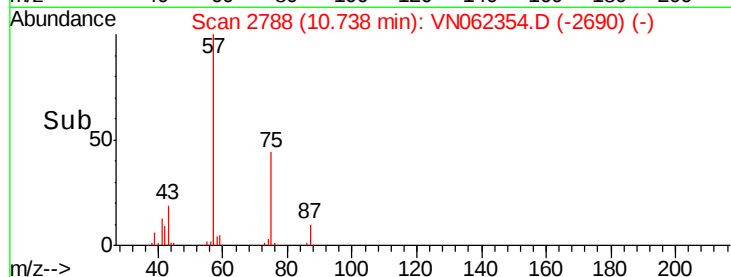
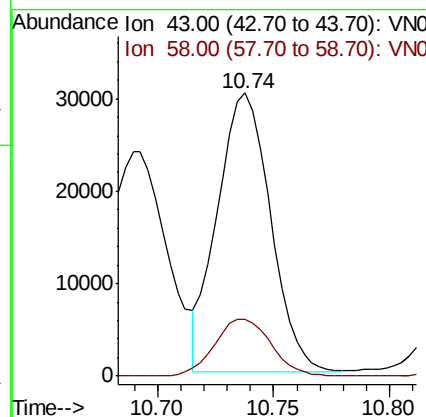
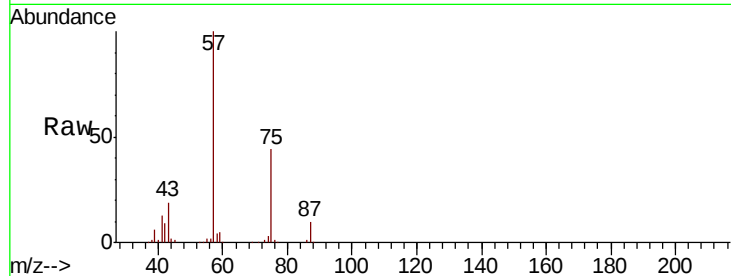




#59
2-Hexanone
Concen: 32.358 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

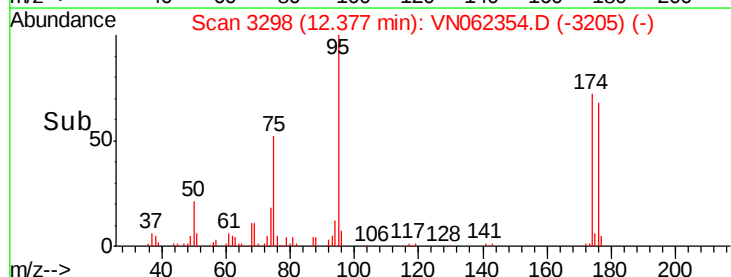
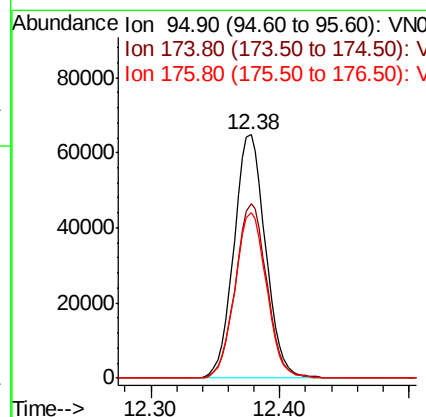
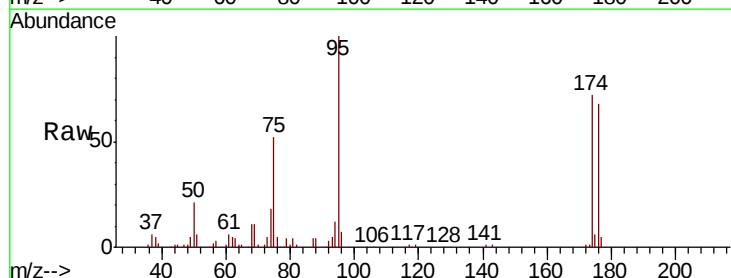
Instrument :
MSVOA_N
ClientSampleId :

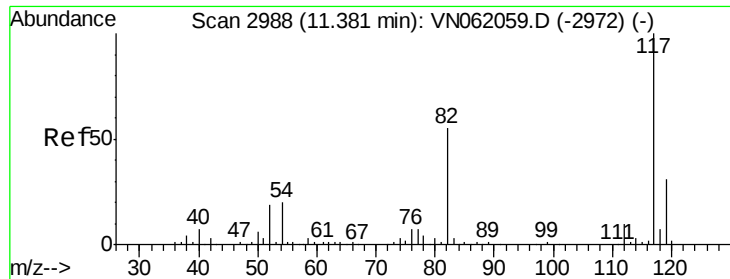
Tot Ion: 43 Resp: 48126
Ion Ratio Lower Upper
43 100
58 21.6 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 48.966 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

Tgt Ion: 95 Resp: 110231
Ion Ratio Lower Upper
95 100
174 71.5 0.0 154.8
176 68.3 0.0 147.4

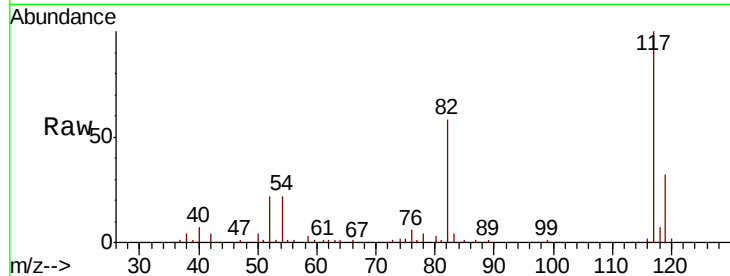




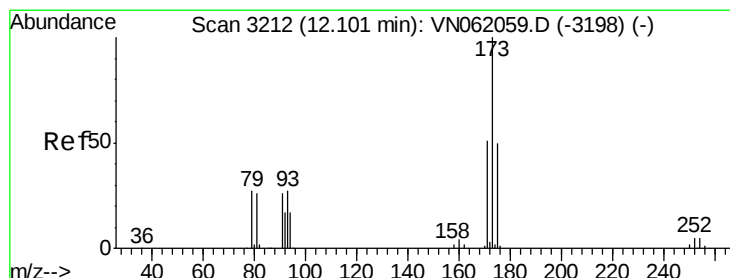
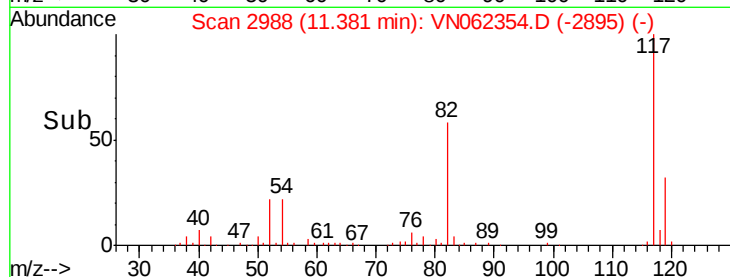
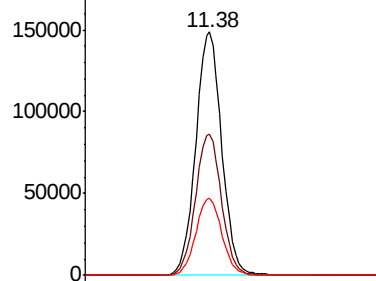
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 260419
Ion Ratio Lower Upper
117 100
82 58.1 43.8 65.8
119 31.6 25.2 37.8

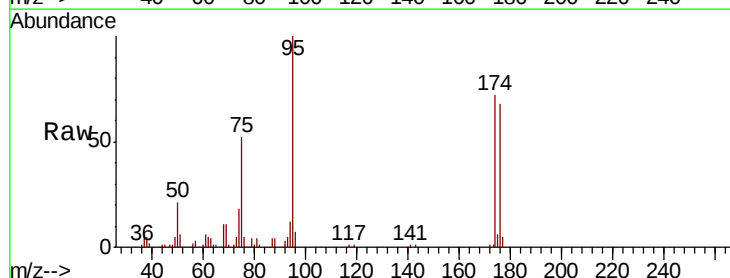


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

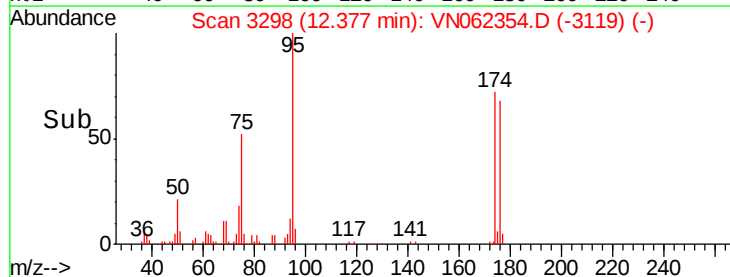
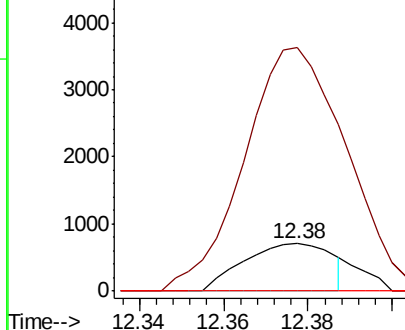


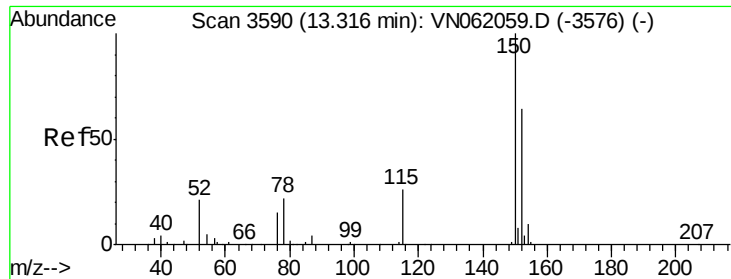
#71
Bromoform
Concen: 0.733 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062354.D
Acq: 2 Jul 2020 23:44

Tgt Ion:173 Resp: 1030
Ion Ratio Lower Upper
173 100
175 501.4 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# 3591

Delta R.T. 0.00 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

Instrument :

MSVOA_N

ClientSampled :

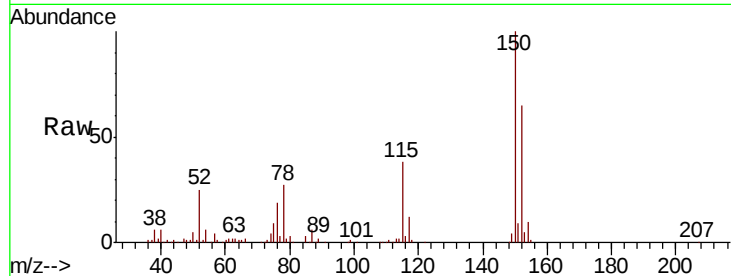
Tot Ion:152 Resp: 91163

Ion Ratio Lower Upper

152 100

115 61.2 29.5 88.5

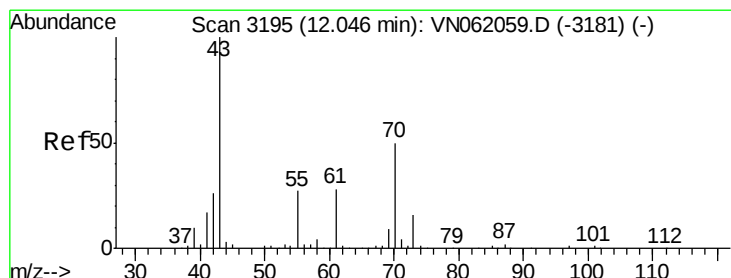
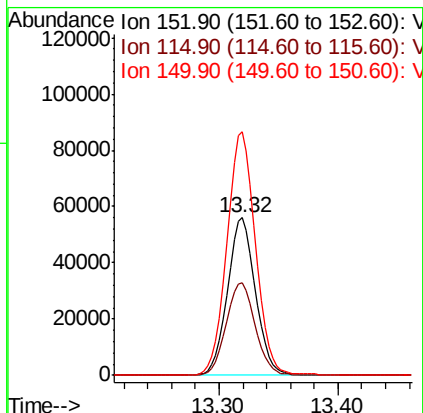
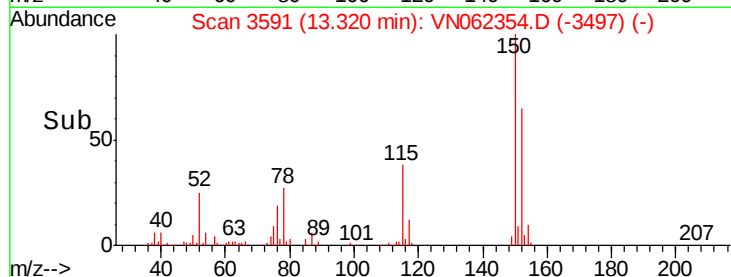
150 158.2 0.0 351.4



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: 3.887 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062354.D

Acq: 2 Jul 2020 23:44

Tgt Ion: 43 Resp: 1515

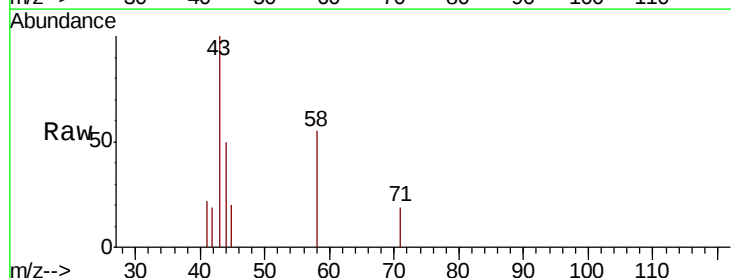
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

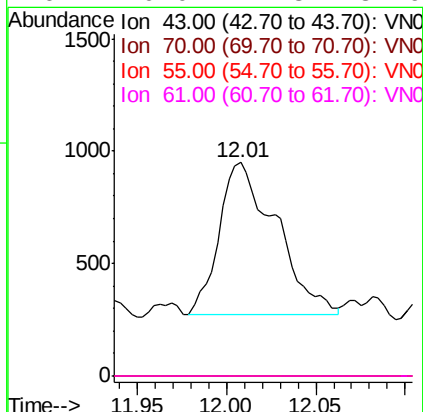
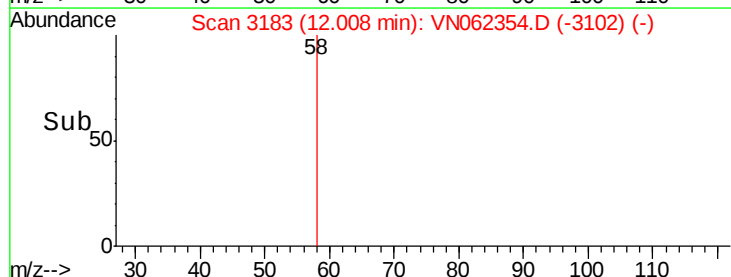


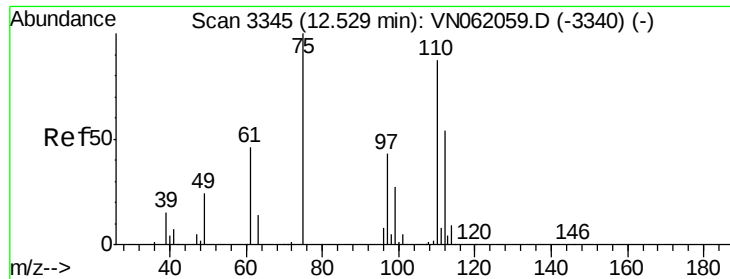
Abundance Ion 43.00 (42.70 to 43.70): V

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

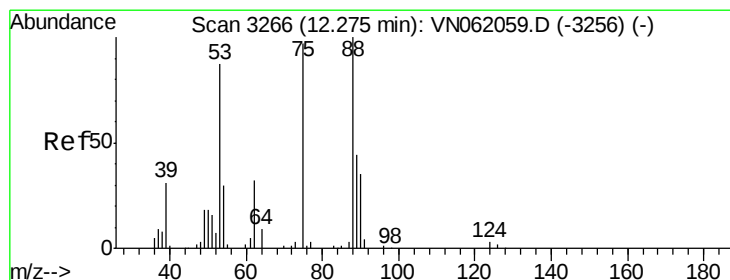
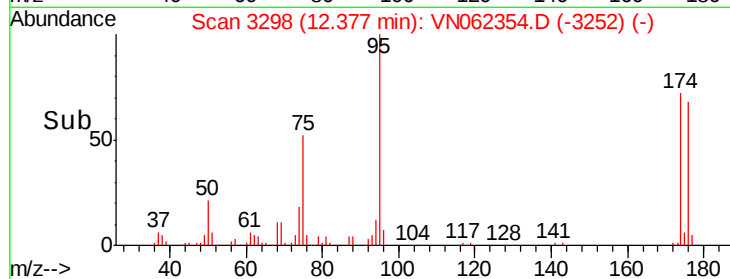
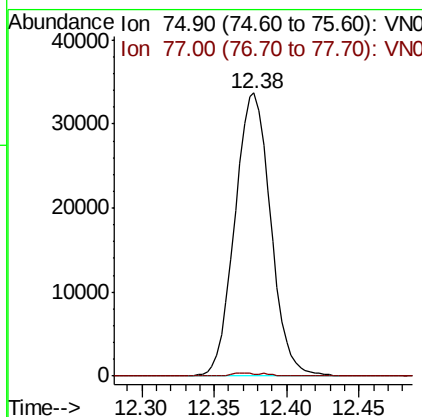
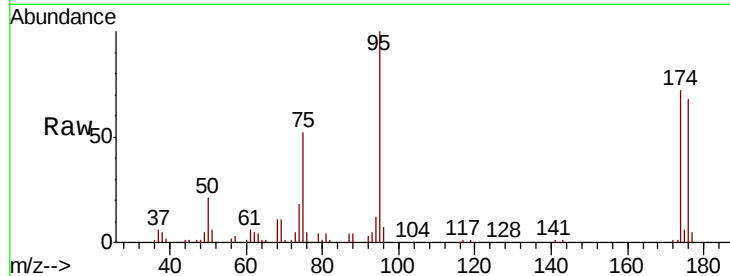




#76
 1,2,3-Trichloropropane
 Concen: 26.972 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062354.D
 Acq: 2 Jul 2020 23:44

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 57884
 Ion Ratio Lower Upper
 75 100
 77 0.6 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 78.769 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062354.D
 Acq: 2 Jul 2020 23:44

Tgt Ion: 75 Resp: 57884
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.0 108.0#
 89 0.0 36.9 55.3#

