

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN065005.D
 Acq On : 9 Dec 2020 6:40
 Operator : JC/MD
 Sample : L4970-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-B-BOTTOM

Quant Time: Dec 09 08:01:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	161485	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	310848	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	325691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	135975	50.00	ug/l	0.00

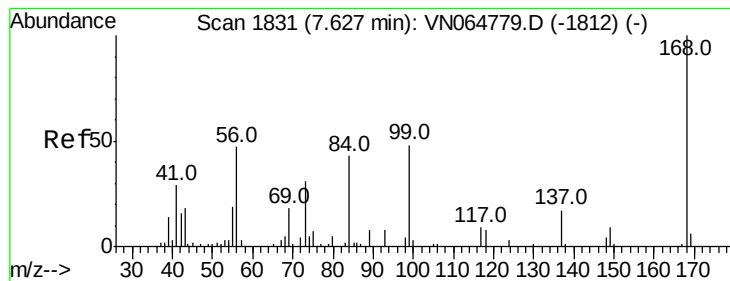
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	105089	55.98	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	111.96%		
35) Dibromofluoromethane	7.55	113	97360	52.34	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	104.68%		
50) Toluene-d8	10.06	98	387494	50.99	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.98%		
62) 4-Bromofluorobenzene	12.38	95	143737	52.85	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	105.70%		

Target Compounds

					Qvalue	
16) Acetone	3.78	43	12811	20.759	ug/l #	88
18) Methyl Acetate	4.29	43	657	0.354	ug/l #	50
20) Methylene Chloride	4.50	84	15308	7.916	ug/l	96
25) 2-Butanone	6.79	43	1369	1.368	ug/l #	49
29) Tetrahydrofuran	7.18	42	163	0.236	ug/l #	32
31) Cyclohexane	7.62	56	2649	1.012	ug/l #	12
36) 1,1-Dichloropropene	7.63	75	11086	3.848	ug/l #	49
37) Ethyl Acetate	6.79	43	1369	0.493	ug/l #	66
38) Carbon Tetrachloride	7.62	117	14877	4.962	ug/l #	16
43) Isopropyl Acetate	8.13	43	14979	3.354	ug/l #	92
45) 1,2-Dichloropropane	9.23	63	779	0.341	ug/l #	43
48) Methyl methacrylate	9.14	41	3426	1.605	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	2820	1.052	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	24265	6.613	ug/l #	64
57) 1,3-Dichloropropane	10.74	76	11948	3.239	ug/l #	42
59) 2-Hexanone	10.74	43	159294	82.554	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	67422	23.024	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	67422	63.103	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

Instrument :

MSVOA_N

ClientSampleId :

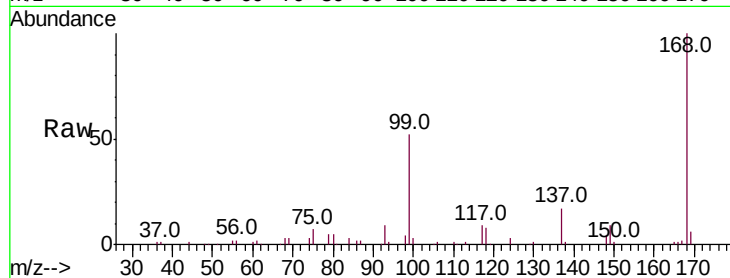
4S1-B-BOTTOM

Tot Ion:168 Resp: 161485

Ion Ratio Lower Upper

168 100

99 52.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN064779.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN064779.D (-1812) (-)

7.63

60000

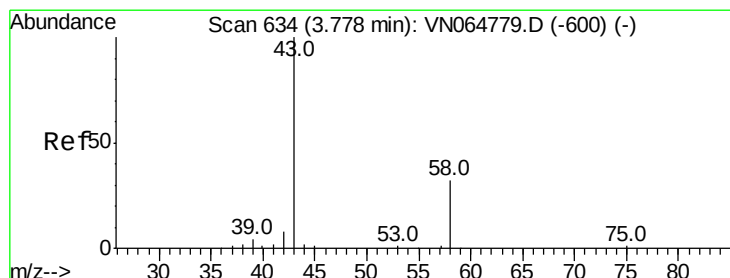
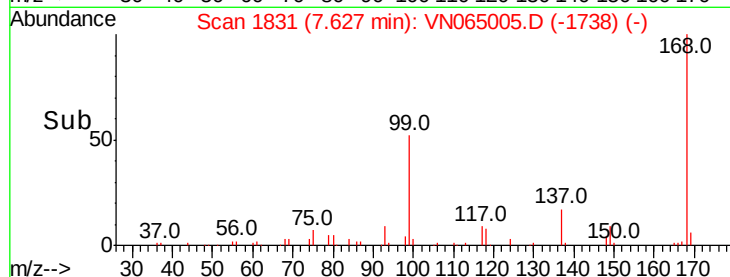
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 20.759 ug/l

RT: 3.78 min Scan# 634

Delta R.T. -0.00 min

Lab File: VN065005.D

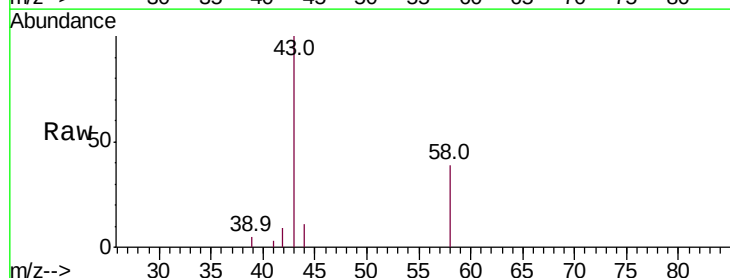
Acq: 9 Dec 2020 6:40

Tgt Ion: 43 Resp: 12811

Ion Ratio Lower Upper

43 100

58 39.0 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-600) (-)

3.78

5000

4000

3000

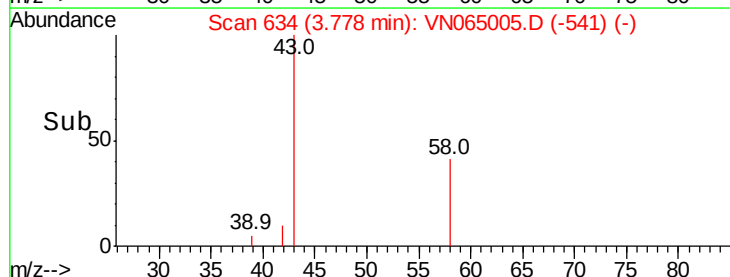
2000

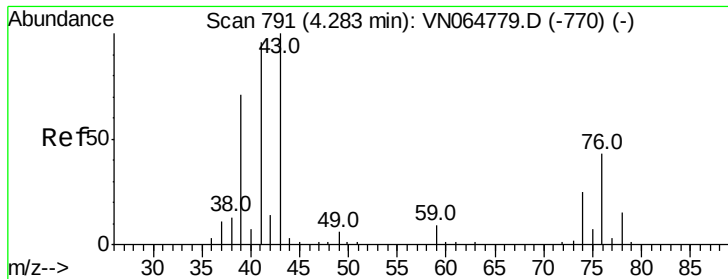
1000

0

3.70 3.75 3.80 3.85

Time-->

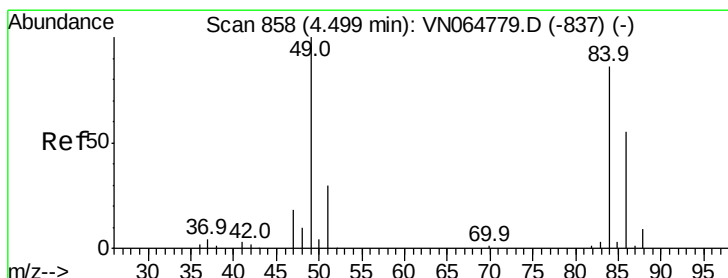
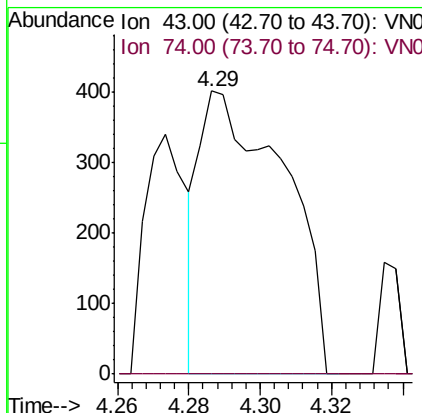
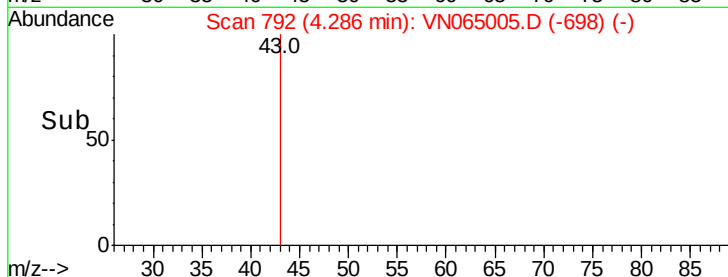
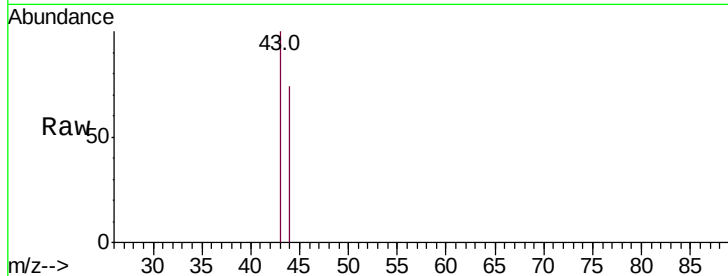




#18
Methyl Acetate
Concen: 0.354 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN065005.D
Acq: 9 Dec 2020 6:40

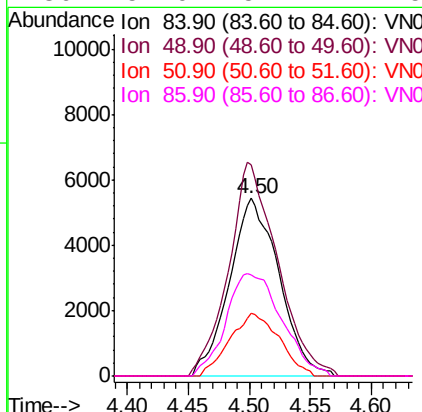
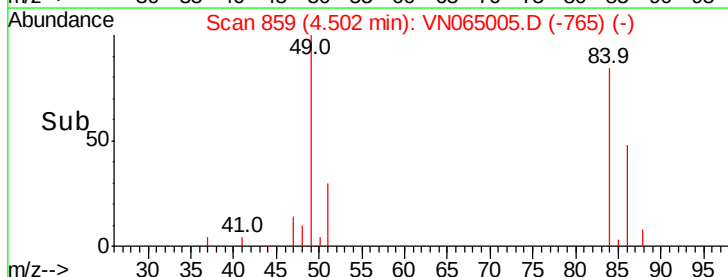
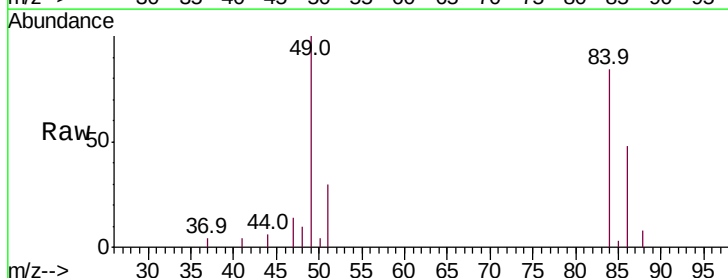
Instrument :
MSVOA_N
ClientSampleId :
4S1-B-BOTTOM

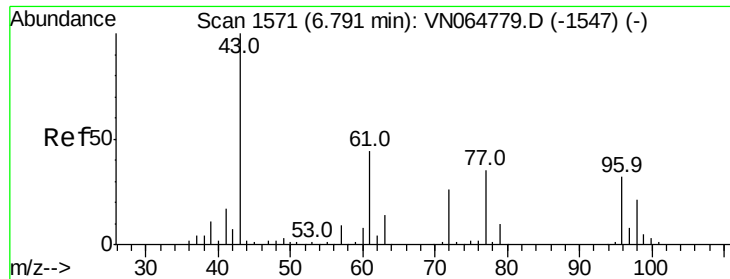
Tot Ion: 43 Resp: 657
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 7.916 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN065005.D
Acq: 9 Dec 2020 6:40

Tgt Ion: 84 Resp: 15308
Ion Ratio Lower Upper
84 100
49 119.4 93.4 140.0
51 35.5 28.2 42.4
86 57.0 51.7 77.5





#25

2-Butanone

Concen: 1.368 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

Instrument :

MSVOA_N

ClientSampleId :

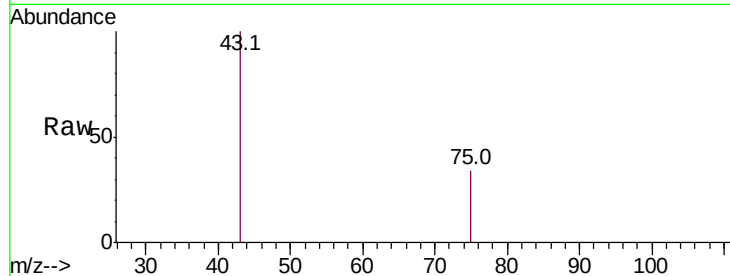
4S1-B-BOTTOM

Tot Ion: 43 Resp: 1369

Ion Ratio Lower Upper

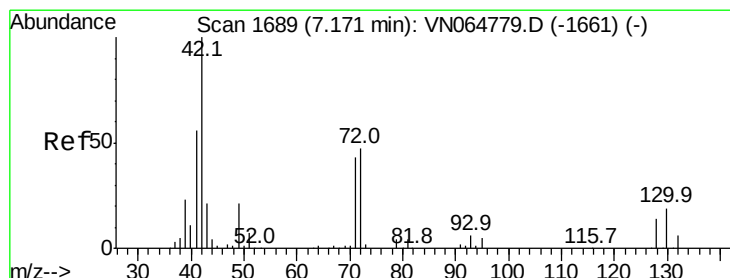
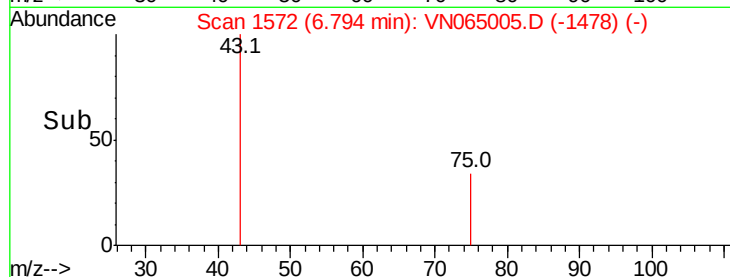
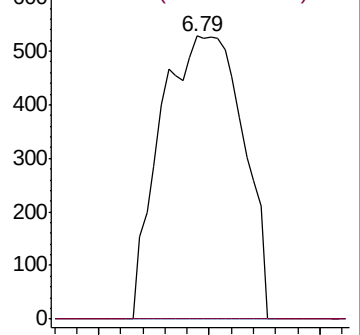
43 100

72 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.236 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

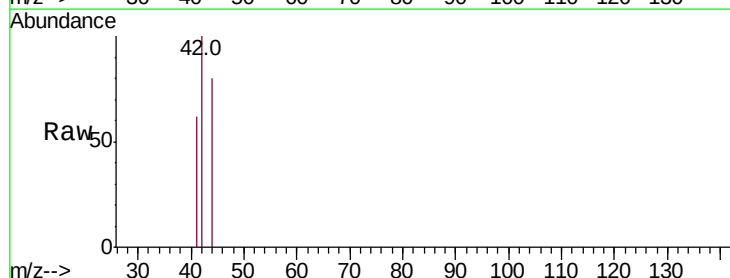
Tgt Ion: 42 Resp: 163

Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

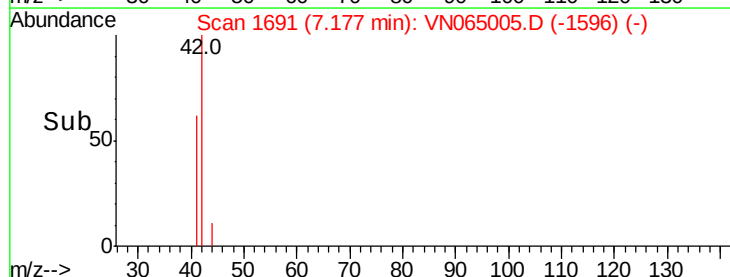
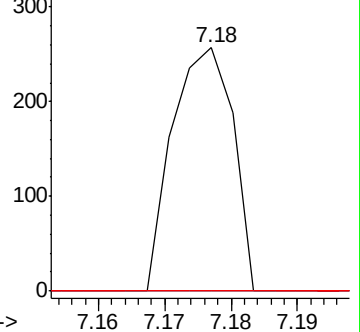
71 0.0 33.6 50.4#

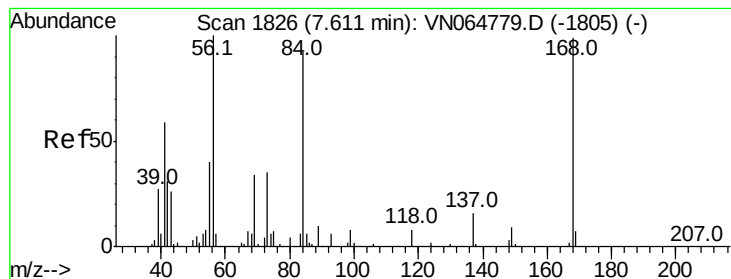


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 1.012 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

Instrument :

MSVOA_N

ClientSampleId :

4S1-B-BOTTOM

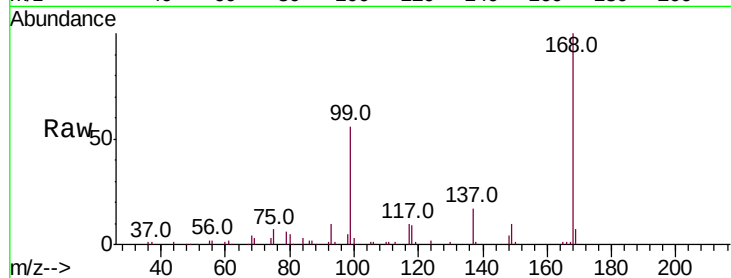
Tot Ion: 56 Resp: 2649

Ion Ratio Lower Upper

56 100

69 147.2 27.5 41.3#

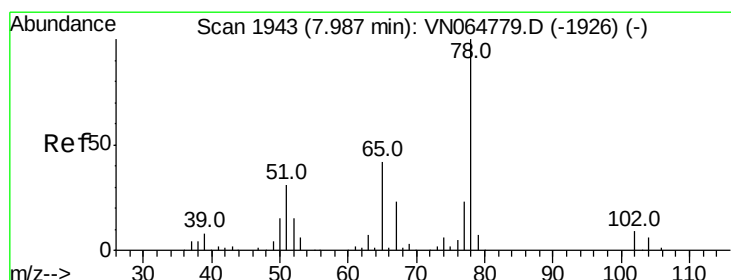
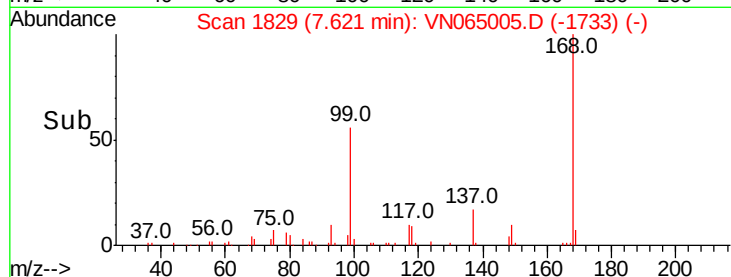
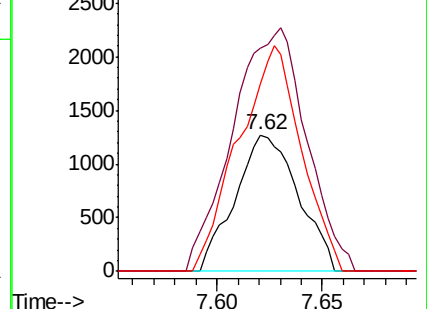
84 137.7 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 55.977 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN065005.D

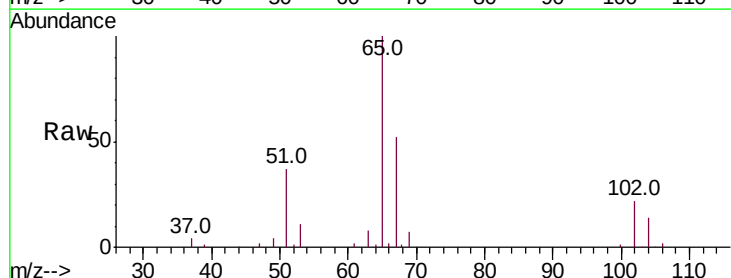
Acq: 9 Dec 2020 6:40

Tgt Ion: 65 Resp: 105089

Ion Ratio Lower Upper

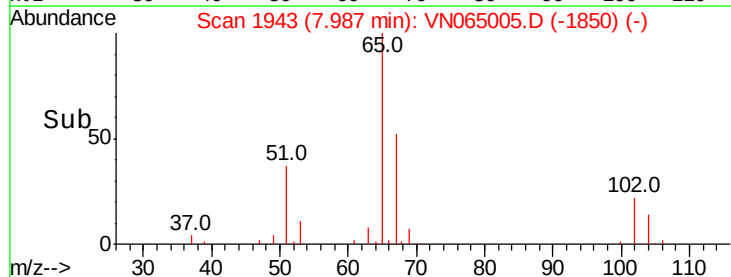
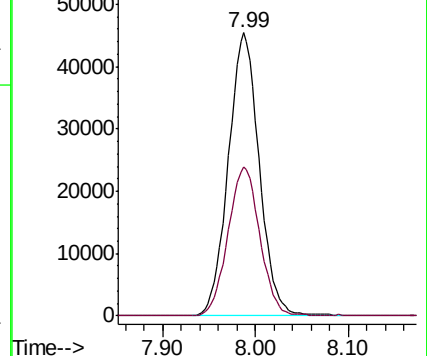
65 100

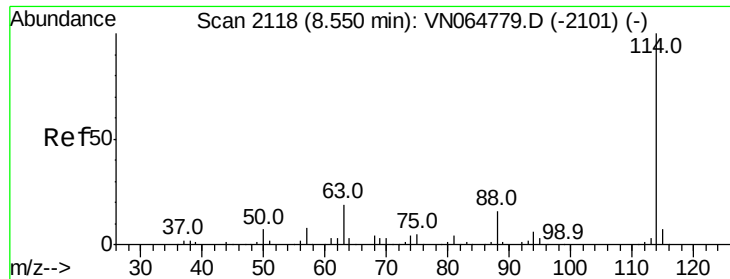
67 54.1 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC

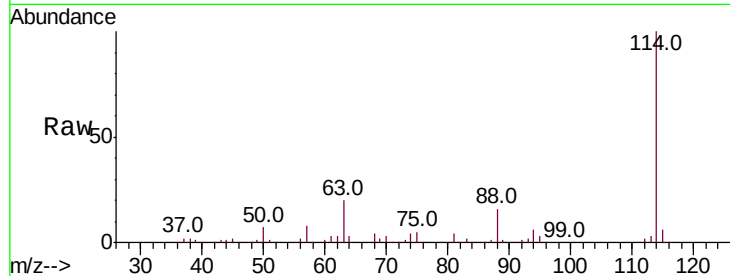




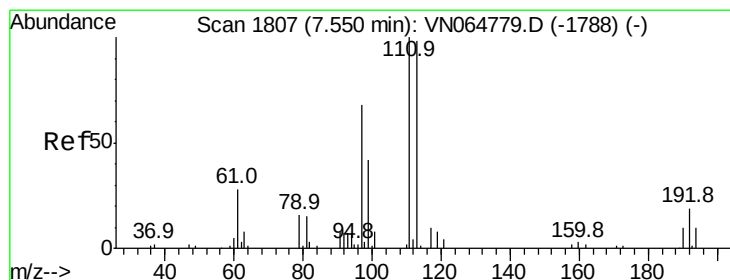
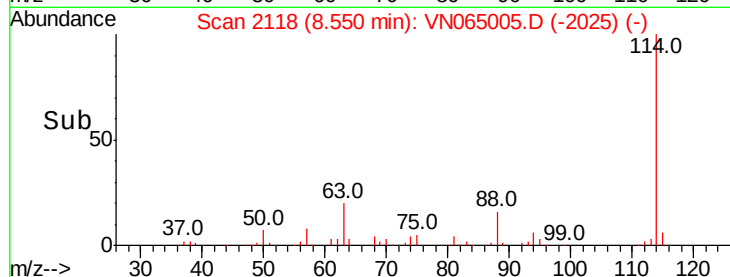
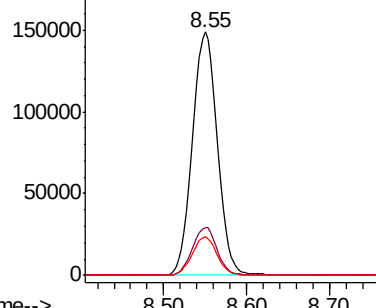
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN065005.D
 Acq: 9 Dec 2020 6:40

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-B-BOTTOM

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	38.6
88	15.8	0.0	32.6

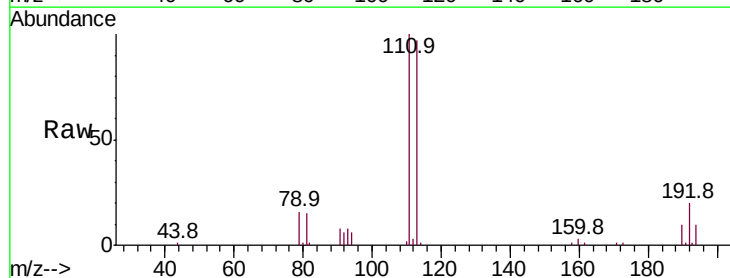


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

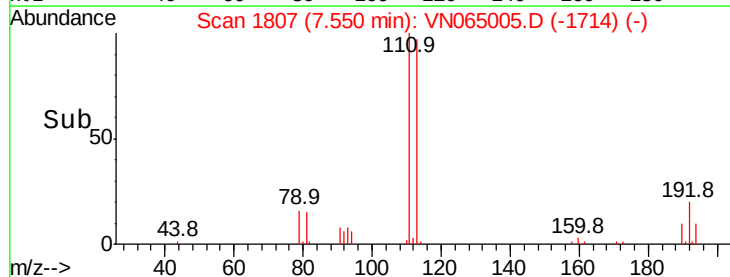
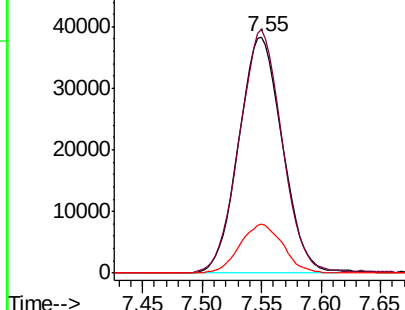


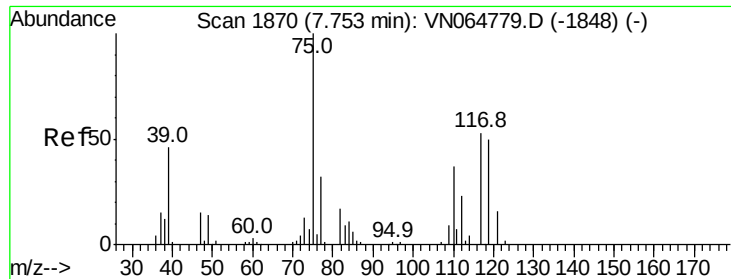
#35
 Dibromofluoromethane
 Concen: 52.344 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN065005.D
 Acq: 9 Dec 2020 6:40

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.6	122.4
192	20.4	16.2	24.2



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: 3.848 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

Instrument :

MSVOA_N

ClientSampleId :

4S1-B-BOTTOM

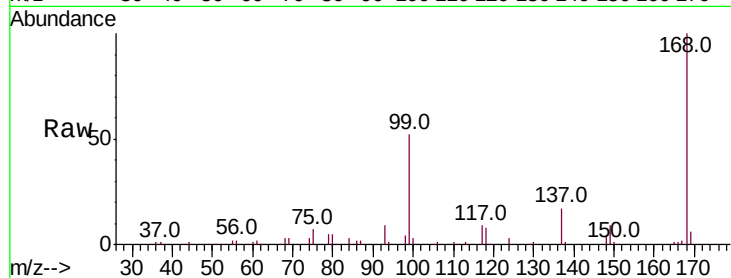
Tot Ion: 75 Resp: 11086

Ion Ratio Lower Upper

75 100

110 8.3 17.8 53.3#

77 0.0 25.0 37.4#

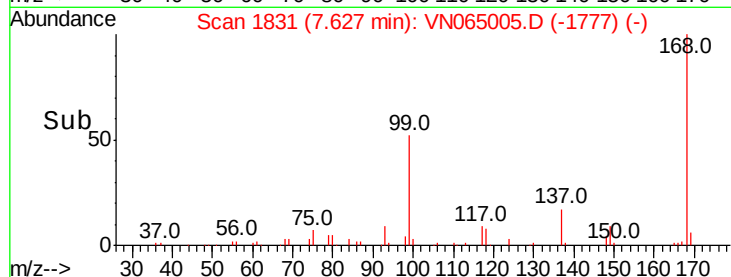


Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-1848) (-)

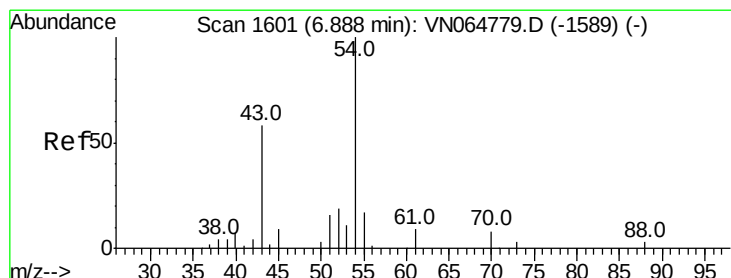
Ion 109.90 (109.60 to 110.60): VN064779.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN064779.D (-1848) (-)

Time-->



Time-->



#37

Ethyl Acetate

Concen: 0.493 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. -0.09 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

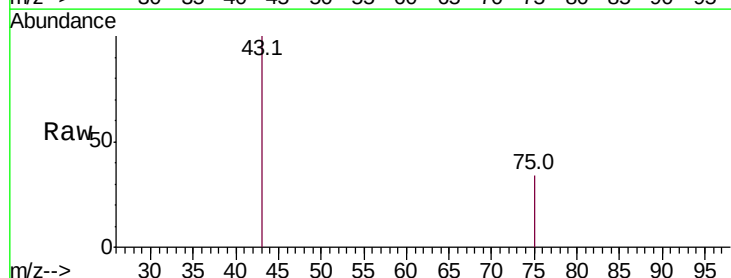
Tgt Ion: 43 Resp: 1369

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

70 0.0 8.8 13.2#

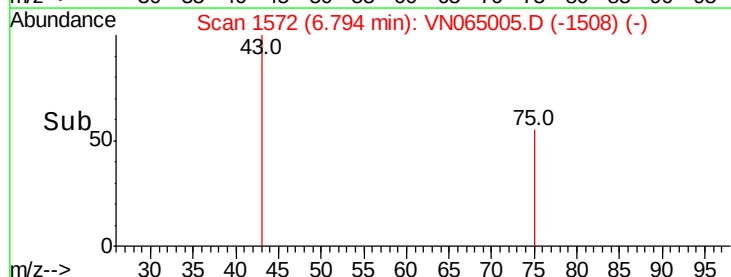


Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-1589) (-)

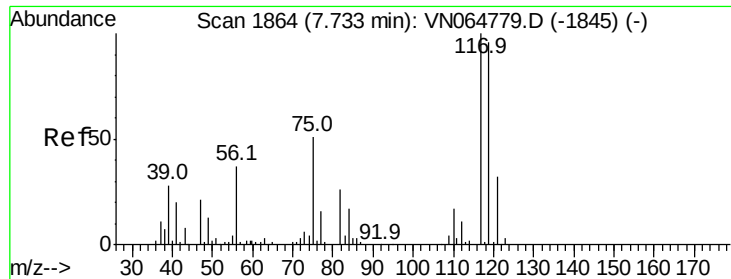
Ion 60.90 (60.60 to 61.60): VN064779.D (-1589) (-)

Ion 70.00 (69.70 to 70.70): VN064779.D (-1589) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 4.962 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

Instrument :

MSVOA_N

ClientSampleId :

4S1-B-BOTTOM

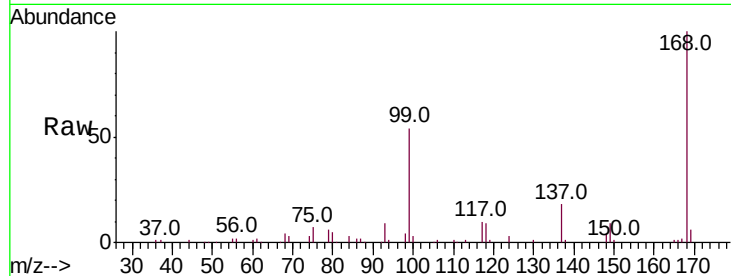
Tot Ion:117 Resp: 14877

Ion Ratio Lower Upper

117 100

119 5.6 76.7 115.1#

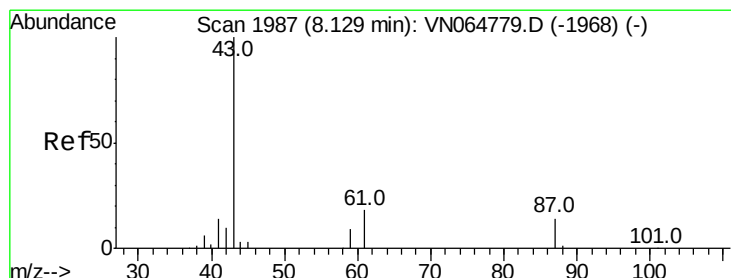
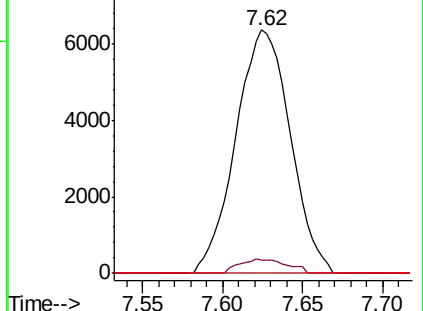
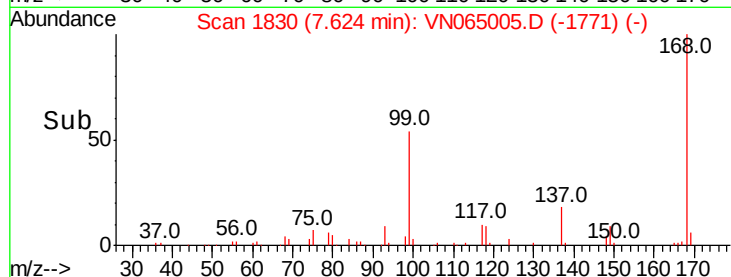
121 0.0 25.4 38.2#



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



#43

Isopropyl Acetate

Concen: 3.354 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

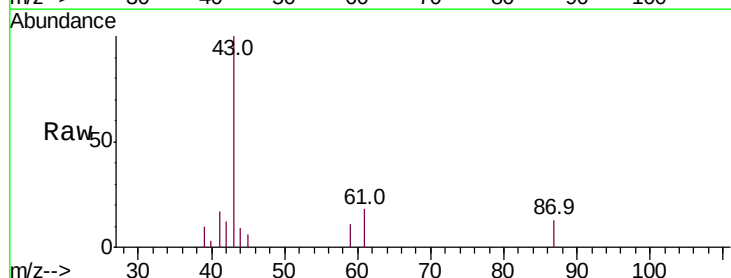
Tgt Ion: 43 Resp: 14979

Ion Ratio Lower Upper

43 100

61 17.2 17.2 25.8

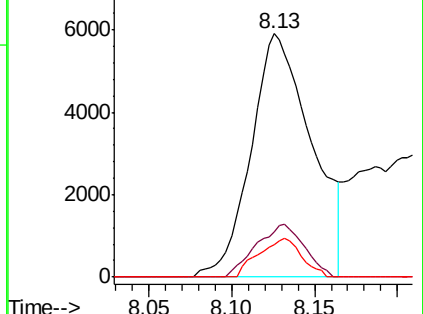
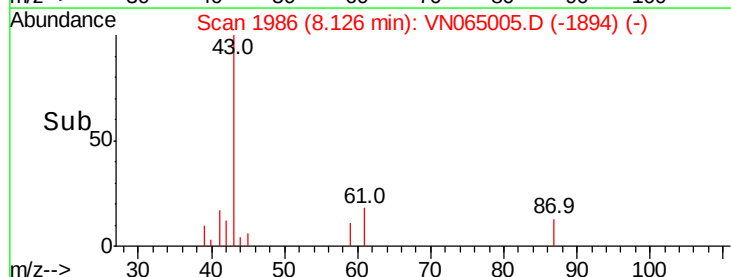
87 11.3 11.4 17.0#

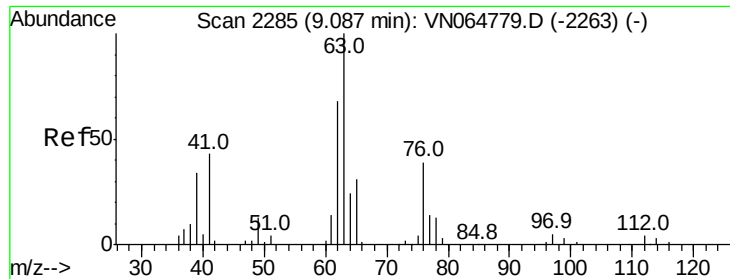


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.341 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

Instrument :

MSVOA_N

ClientSampleId :

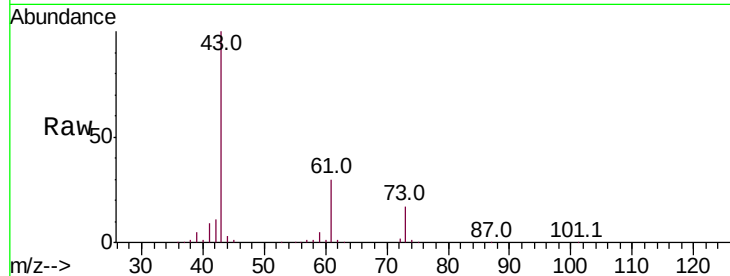
4S1-B-BOTTOM

Tot Ion: 63 Resp: 779

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

9.23

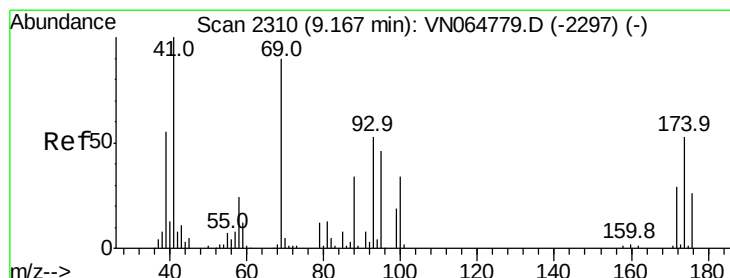
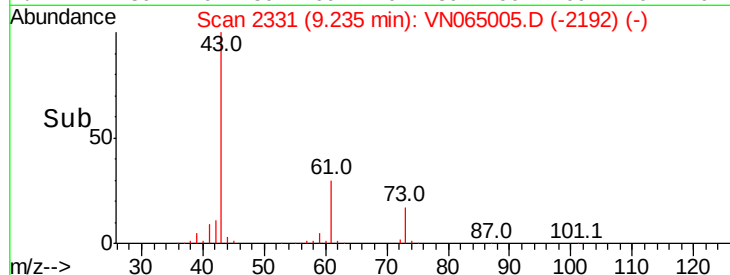
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.605 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

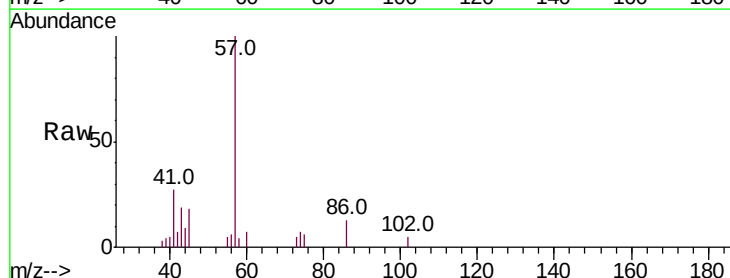
Tgt Ion: 41 Resp: 3426

Ion Ratio Lower Upper

41 100

69 0.0 71.8 107.8#

39 0.0 44.1 66.1#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

40000

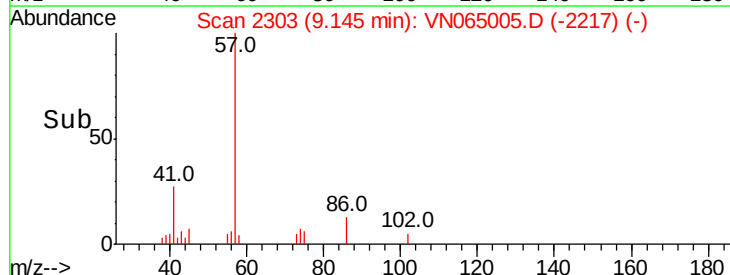
30000

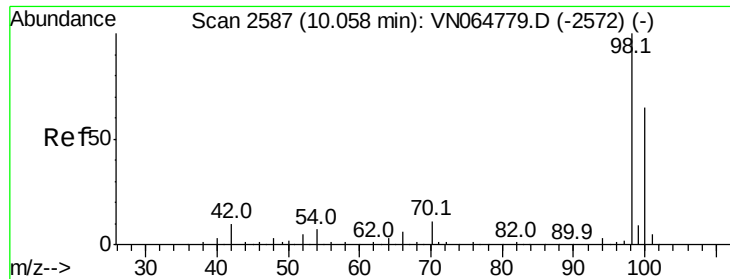
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 50.987 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

Instrument :

MSVOA_N

ClientSampleId :

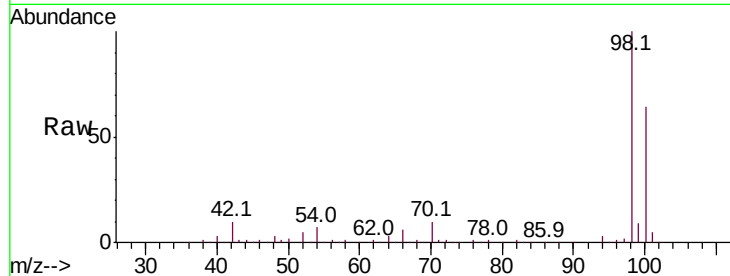
4S1-B-BOTTOM

Tot Ion: 98 Resp: 387494

Ion Ratio Lower Upper

98 100

100 65.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)

250000

200000

150000

100000

50000

0

10.06

10.10

10.15

10.20

10.25

10.30

10.35

10.40

10.45

10.50

10.55

10.60

10.65

10.70

10.75

10.80

10.85

10.90

10.95

11.00

11.05

11.10

11.15

11.20

11.25

11.30

11.35

11.40

11.45

11.50

11.55

11.60

11.65

11.70

11.75

11.80

11.85

11.90

11.95

12.00

12.05

12.10

12.15

12.20

12.25

12.30

12.35

12.40

12.45

12.50

12.55

12.60

12.65

12.70

12.75

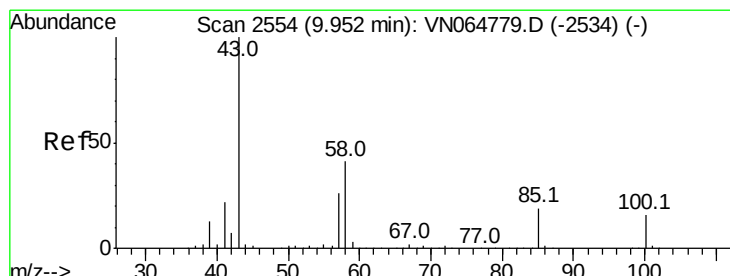
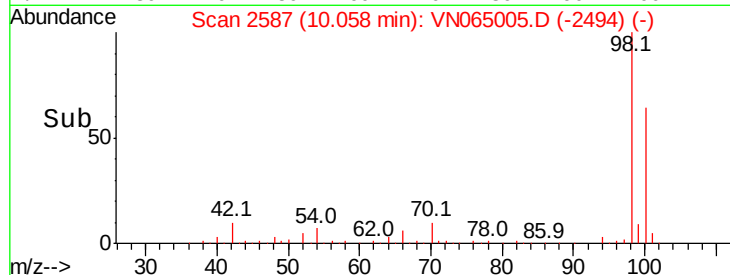
12.80

12.85

12.90

12.95

13.00



#51

4-Methyl-2-Pentanone

Concen: 1.052 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN065005.D

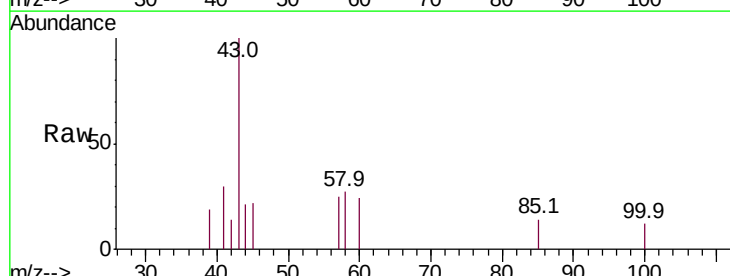
Acq: 9 Dec 2020 6:40

Tgt Ion: 43 Resp: 2820

Ion Ratio Lower Upper

43 100

58 37.8 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)

2500

2000

1500

1000

500

0

9.96

9.97

9.98

9.99

10.00

10.01

10.02

10.03

10.04

10.05

10.06

10.07

10.08

10.09

10.10

10.11

10.12

10.13

10.14

10.15

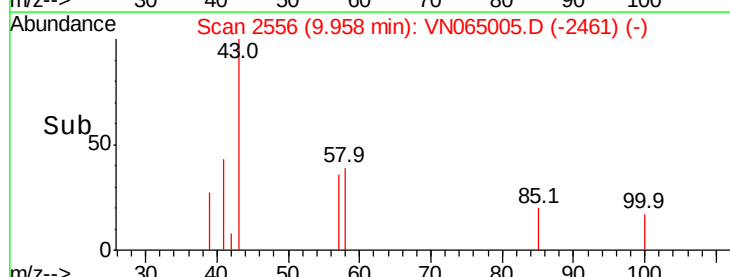
10.16

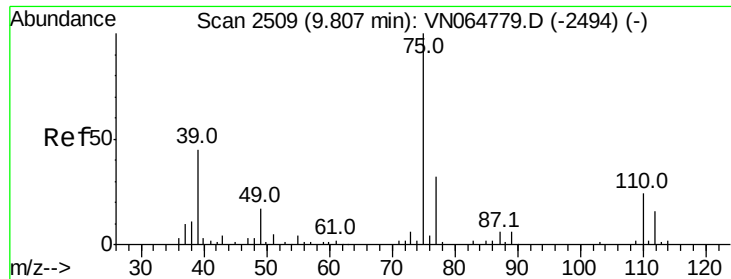
10.17

10.18

10.19

10.20



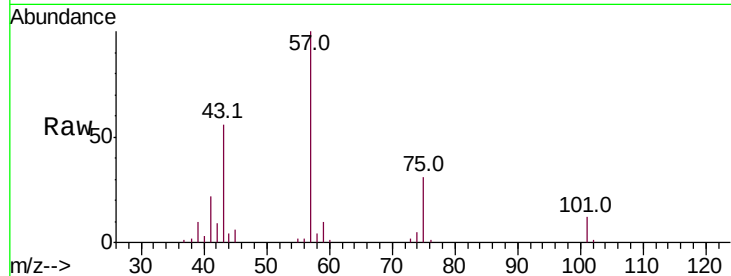


#54

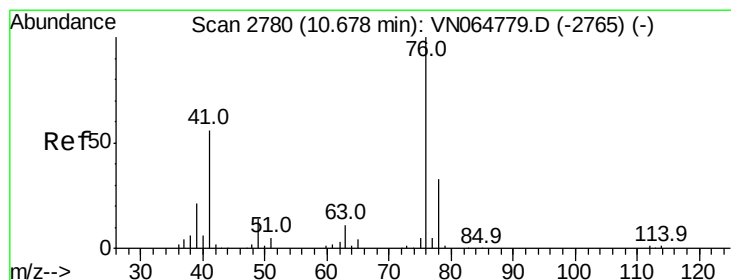
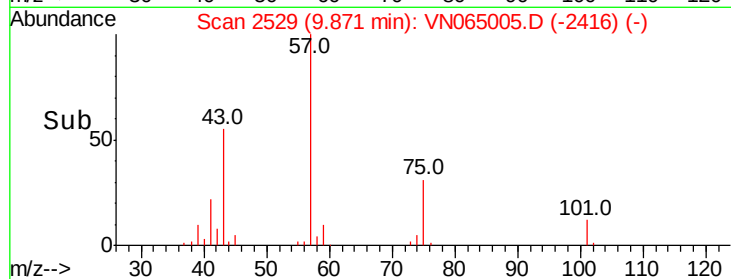
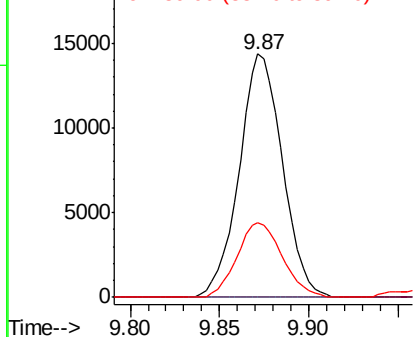
cis-1,3-Dichloropropene
 Concen: 6.613 ug/l
 RT: 9.87 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN065005.D
 Acq: 9 Dec 2020 6:40

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-B-BOTTOM

Tot Ion: 75 Resp: 24265
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 30.6 35.6 53.4#



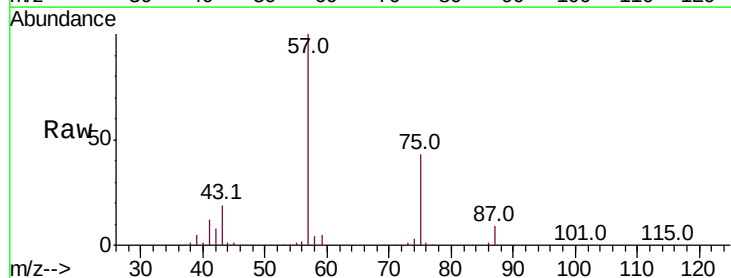
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



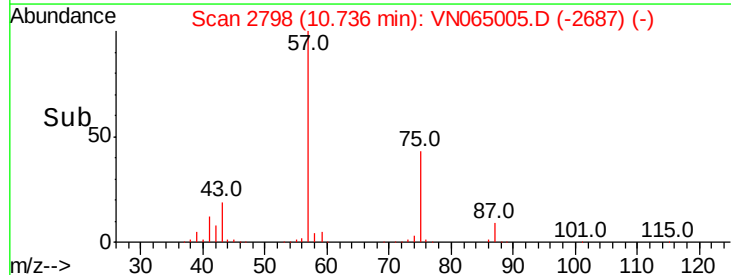
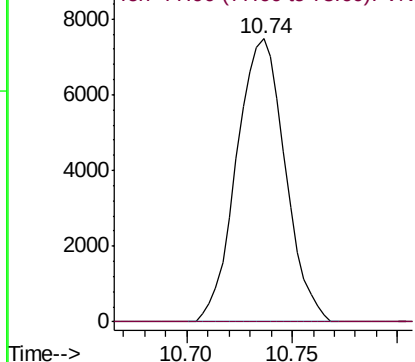
#57

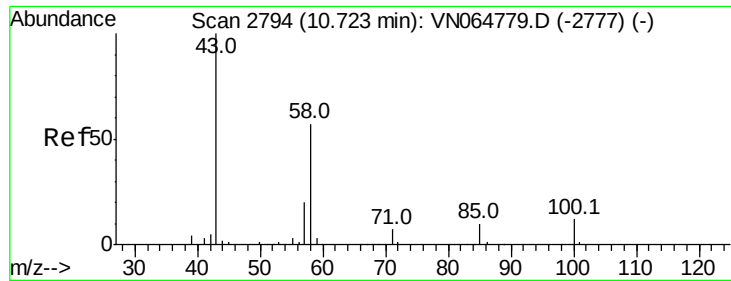
1,3-Dichloropropane
 Concen: 3.239 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN065005.D
 Acq: 9 Dec 2020 6:40

Tgt Ion: 76 Resp: 11948
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

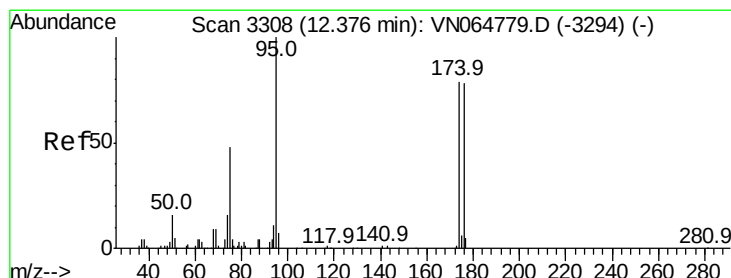
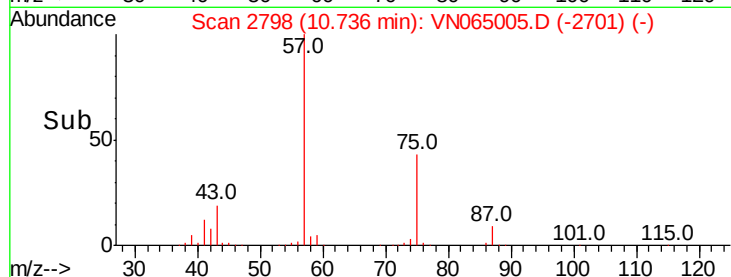
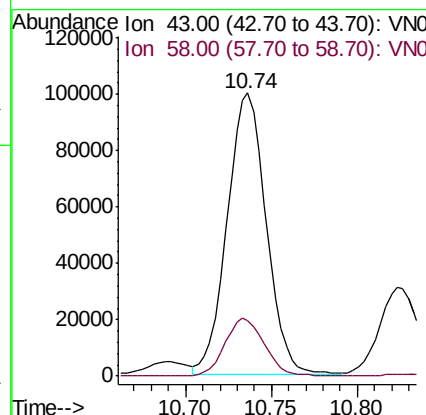
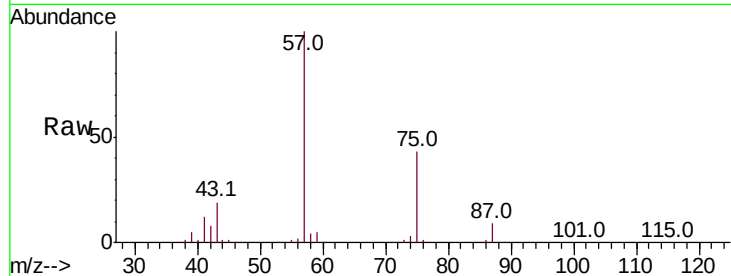




#59
2-Hexanone
Concen: 82.554 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN065005.D
Acq: 9 Dec 2020 6:40

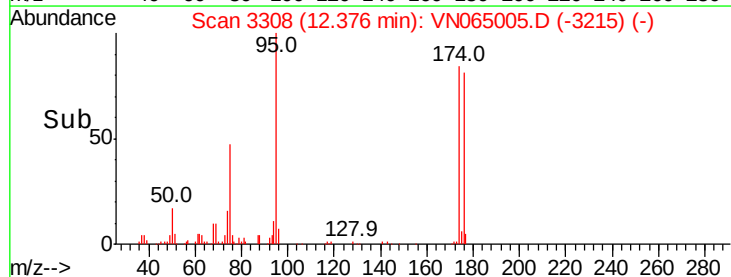
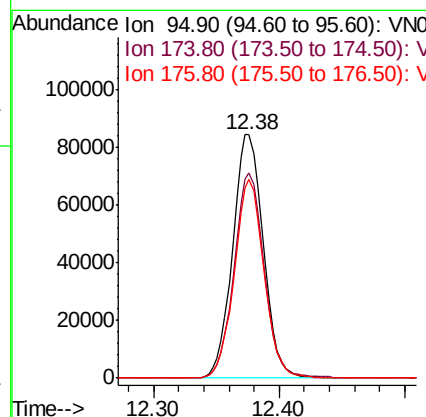
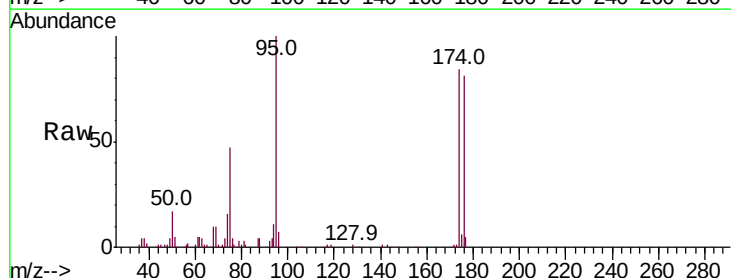
Instrument :
MSVOA_N
ClientSampleId :
4S1-B-BOTTOM

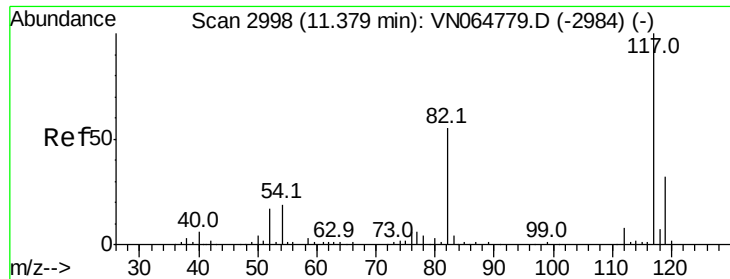
Tot Ion: 43 Resp: 159294
Ion Ratio Lower Upper
43 100
58 20.7 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 52.847 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN065005.D
Acq: 9 Dec 2020 6:40

Tgt Ion: 95 Resp: 143737
Ion Ratio Lower Upper
95 100
174 82.5 0.0 160.4
176 78.9 0.0 158.4

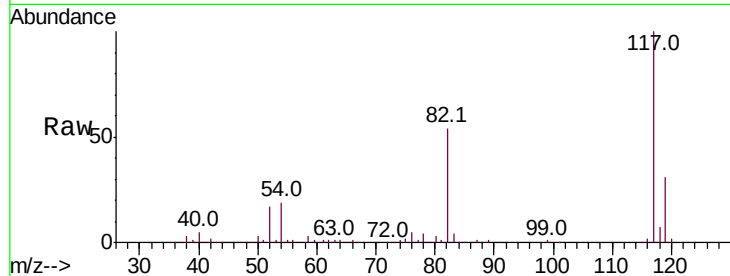




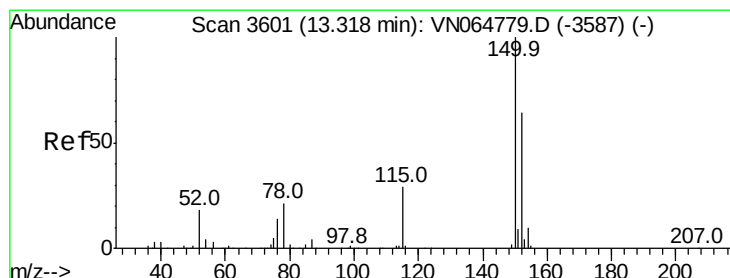
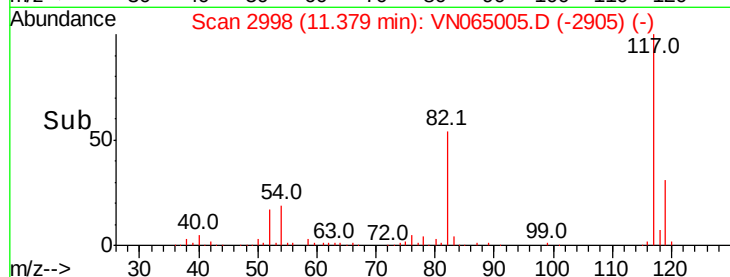
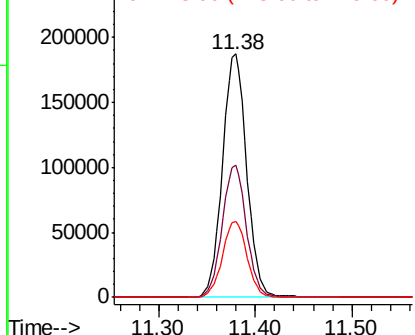
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN065005.D
Acq: 9 Dec 2020 6:40

Instrument :
MSVOA_N
ClientSampleId :
4S1-B-BOTTOM

Tot Ion:117 Resp: 325691
Ion Ratio Lower Upper
117 100
82 54.2 44.2 66.2
119 31.4 25.8 38.6

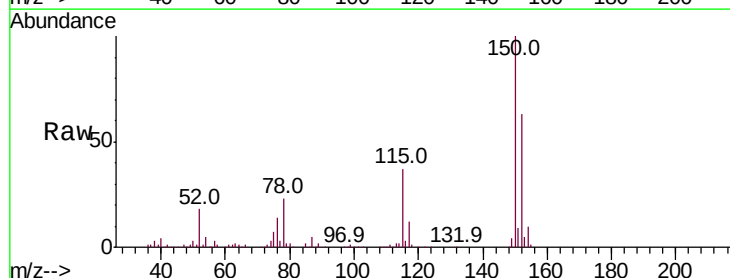


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

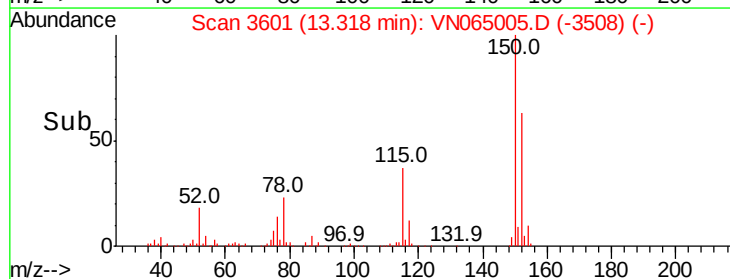
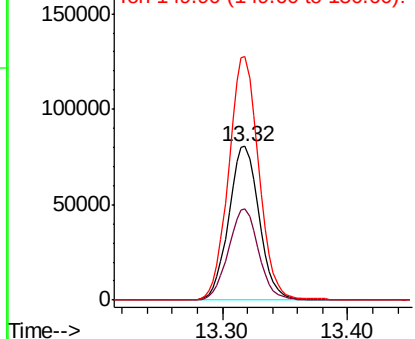


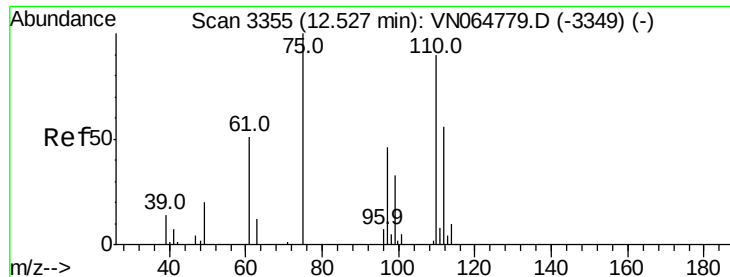
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN065005.D
Acq: 9 Dec 2020 6:40

Tgt Ion:152 Resp: 135975
Ion Ratio Lower Upper
152 100
115 58.7 29.7 89.1
150 156.8 0.0 350.6



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





#76

1,2,3-Trichloropropane

Concen: 23.024 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

Instrument :

MSVOA_N

ClientSampleId :

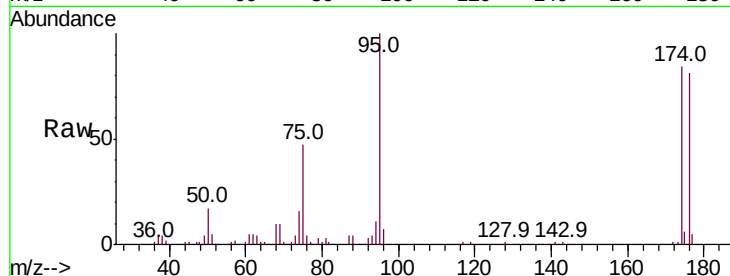
4S1-B-BOTTOM

Tot Ion: 75 Resp: 67422

Ion Ratio Lower Upper

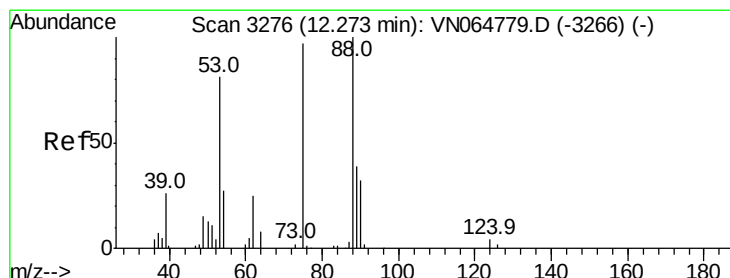
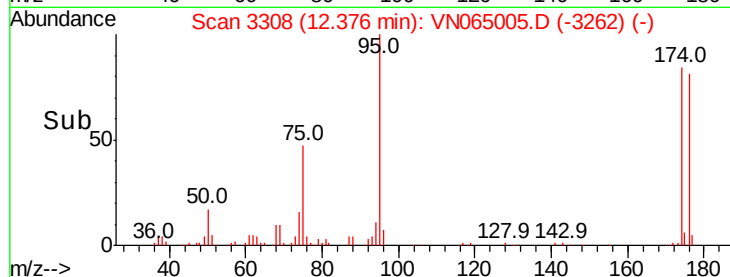
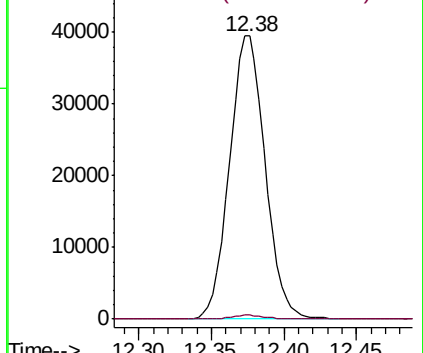
75 100

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: 63.103 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN065005.D

Acq: 9 Dec 2020 6:40

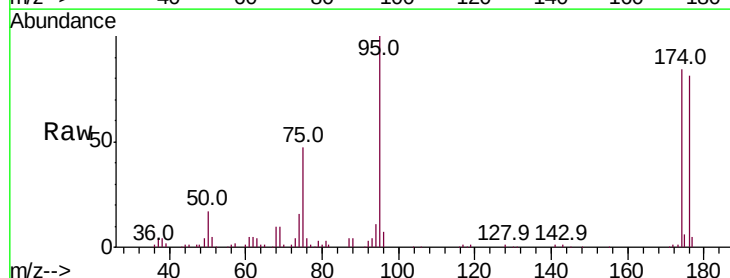
Tgt Ion: 75 Resp: 67422

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



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

