

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN065007.D
 Acq On : 9 Dec 2020 7:28
 Operator : JC/MD
 Sample : L4970-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 53 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-C-BOTTOM

Quant Time: Dec 09 08:01:59 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	163665	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	322005	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	340704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	140771	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.98	65	108286	56.91	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	113.82%
35) Dibromofluoromethane	7.55	113	99383	51.58	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	103.16%
50) Toluene-d8	10.06	98	404136	51.33	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.66%
62) 4-Bromofluorobenzene	12.38	95	149520	53.07	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	106.14%

Target Compounds

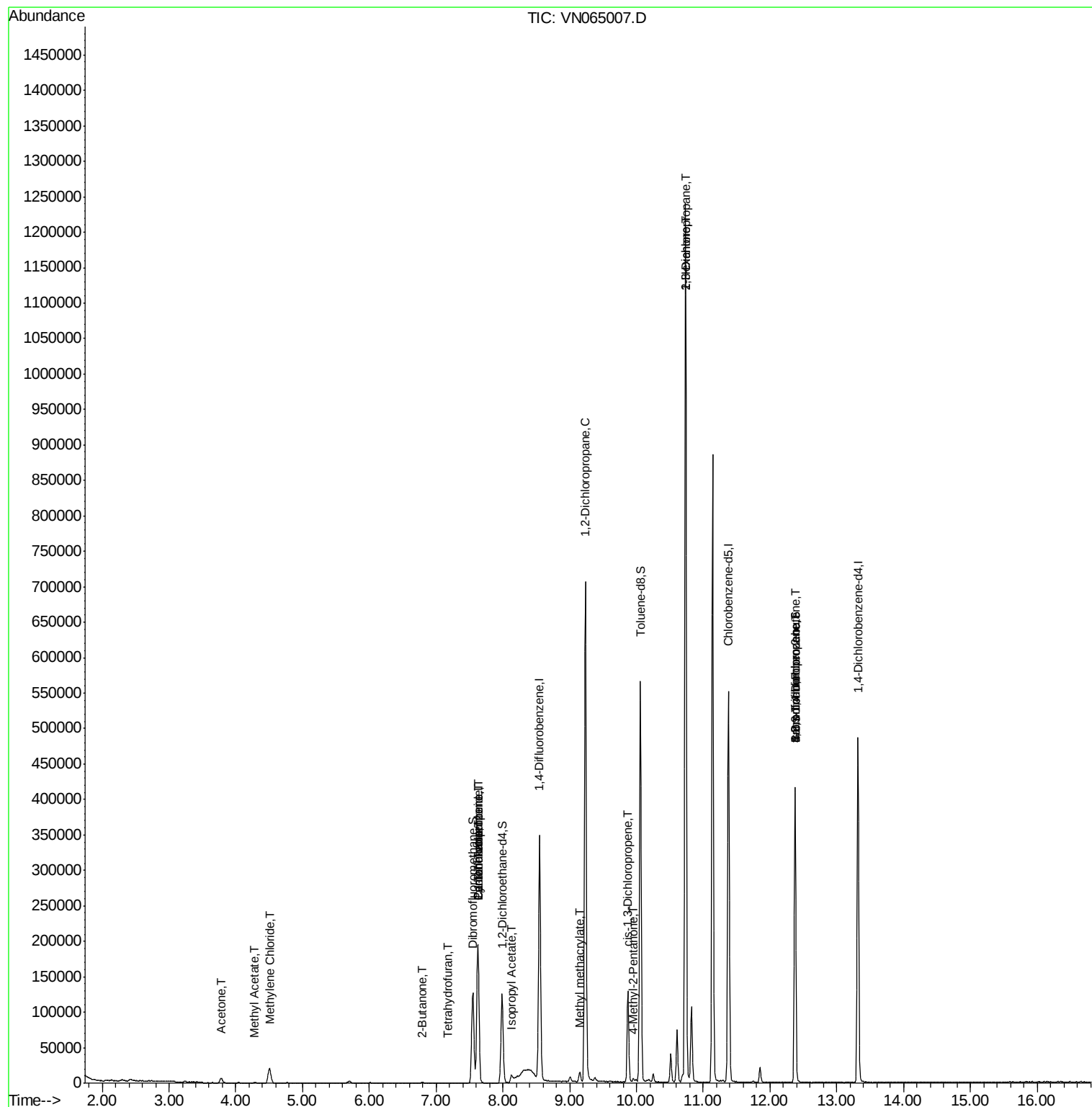
					Qvalue	
16) Acetone	3.78	43	12134	19.400	ug/l #	87
18) Methyl Acetate	4.27	43	399	0.212	ug/l #	50
20) Methylene Chloride	4.51	84	16663	8.502	ug/l	92
25) 2-Butanone	6.79	43	864	0.852	ug/l #	49
29) Tetrahydrofuran	7.18	42	171	0.244	ug/l #	59
31) Cyclohexane	7.62	56	3073	1.159	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11816	3.959	ug/l #	49
38) Carbon Tetrachloride	7.63	117	15087	4.858	ug/l #	16
43) Isopropyl Acetate	8.13	43	15638	3.380	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	895	0.378	ug/l #	43
48) Methyl methacrylate	9.14	41	3573	1.616	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	2986	1.075	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	22963	6.041	ug/l #	65
57) 1,3-Dichloropropane	10.73	76	12987	3.399	ug/l #	42
59) 2-Hexanone	10.74	43	168626	84.362	ug/l #	51
71) Bromoform	12.38	173	1062	0.495	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	69089	22.789	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	69089	62.460	ug/l #	15

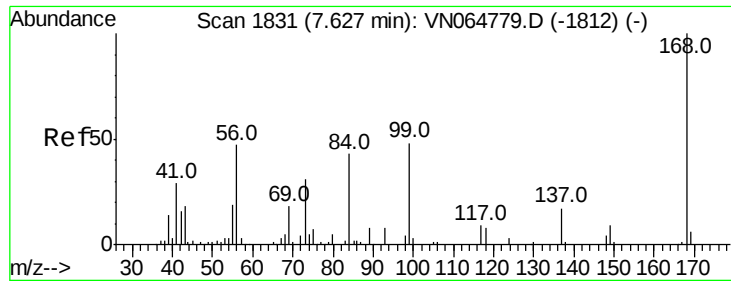
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

Instrument :

MSVOA_N

ClientSampleId :

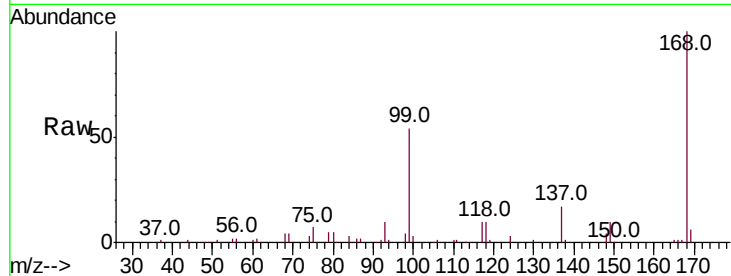
4S1-C-BOTTOM

Tot Ion:168 Resp: 163665

Ion Ratio Lower Upper

168 100

99 53.9 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

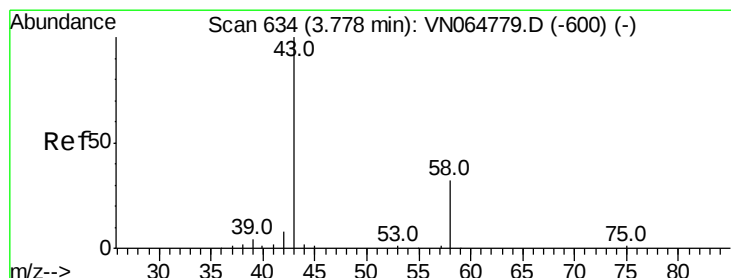
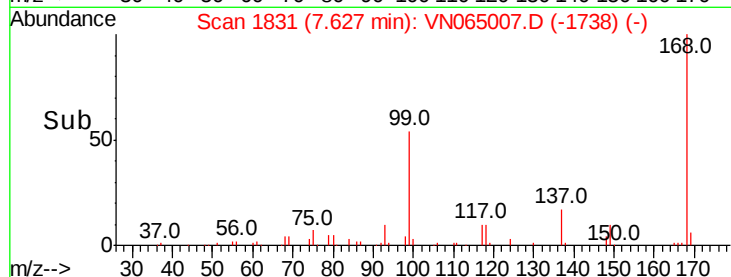
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 19.400 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN065007.D

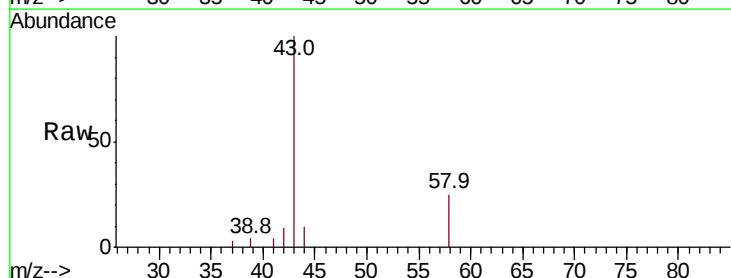
Acq: 9 Dec 2020 7:28

Tgt Ion: 43 Resp: 12134

Ion Ratio Lower Upper

43 100

58 25.1 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

5000

4000

3000

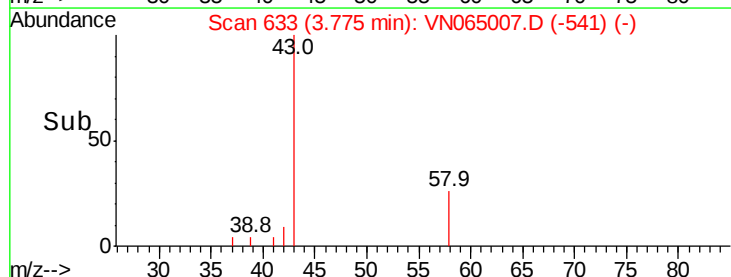
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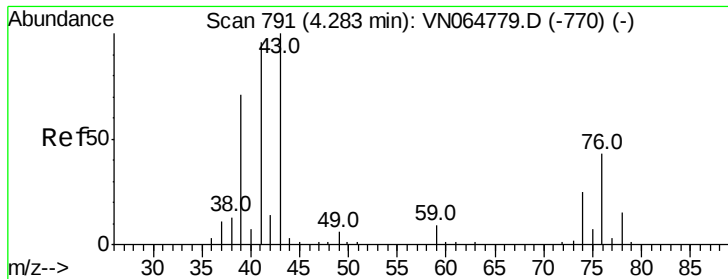
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->





#18

Methyl Acetate

Concen: 0.212 ug/l

RT: 4.27 min Scan# 787

Delta R.T. -0.01 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

Instrument :

MSVOA_N

ClientSampleId :

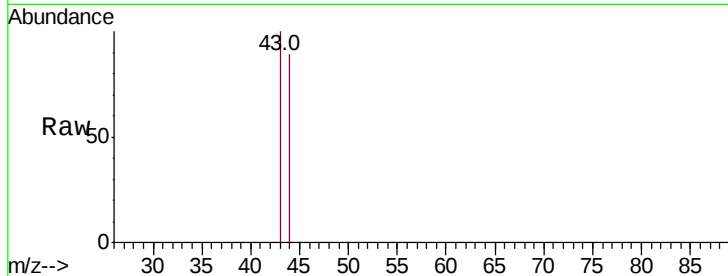
4S1-C-BOTTOM

Tot Ion: 43 Resp: 399

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC

4.27

4.28

4.29

4.30

4.31

4.32

4.33

4.34

4.35

4.36

4.37

4.38

4.39

4.40

4.41

4.42

4.43

4.44

4.45

4.46

4.47

4.48

4.49

4.50

4.51

4.52

4.53

4.54

4.55

4.56

4.57

4.58

4.59

4.60

4.61

4.62

4.63

4.64

4.65

4.66

4.67

4.68

4.69

4.70

4.71

4.72

4.73

4.74

4.75

4.76

4.77

4.78

4.79

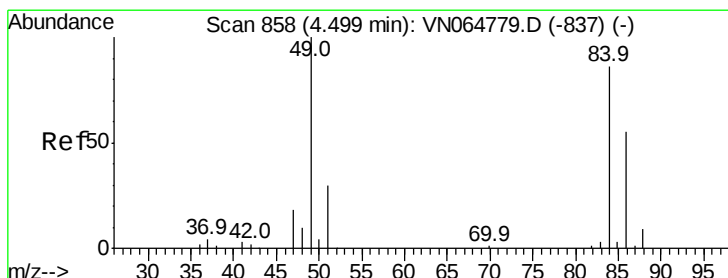
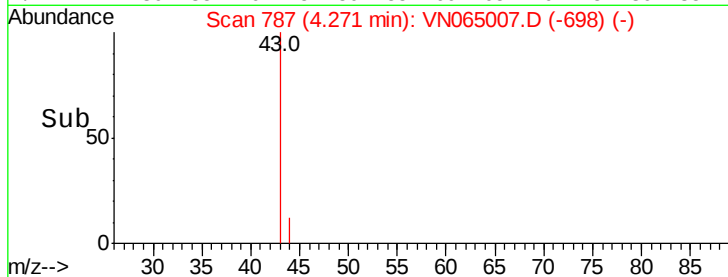
4.80

4.81

4.82

4.83

4.84



#20

Methylene Chloride

Concen: 8.502 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.01 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

Tgt Ion: 84 Resp: 16663

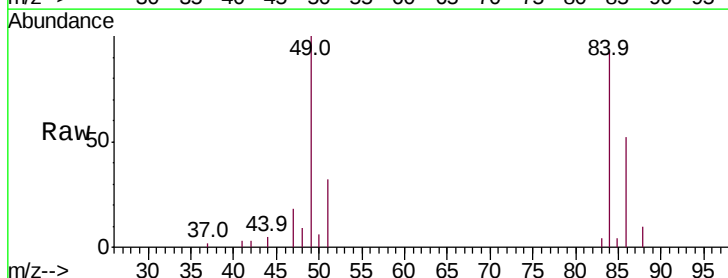
Ion Ratio Lower Upper

84 100

49 107.3 93.4 140.0

51 34.1 28.2 42.4

86 56.3 51.7 77.5



Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

4.51

4.52

4.53

4.54

4.55

4.56

4.57

4.58

4.59

4.60

4.61

4.62

4.63

4.64

4.65

4.66

4.67

4.68

4.69

4.70

4.71

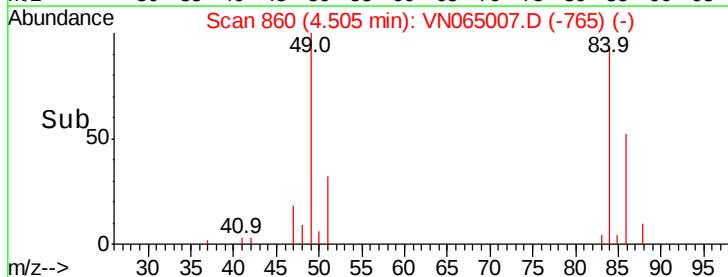
4.72

4.73

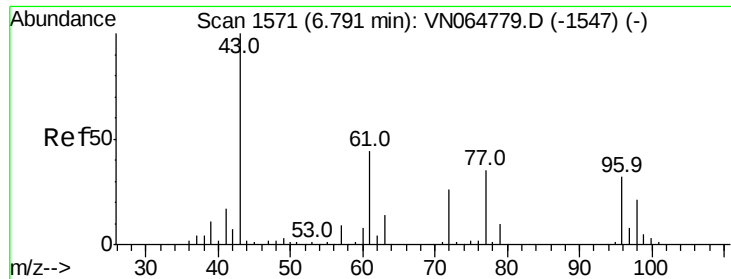
4.74

4.75

4.76



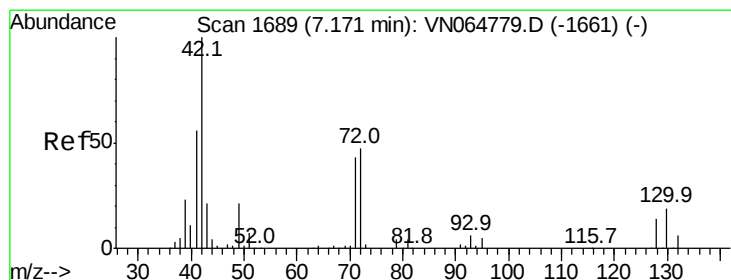
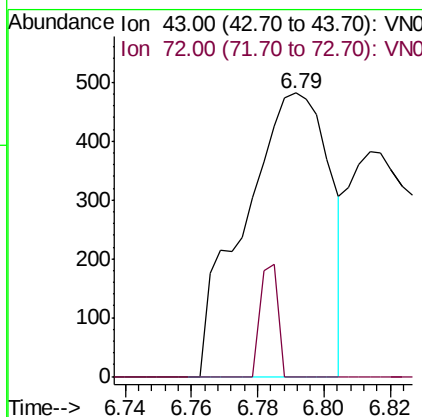
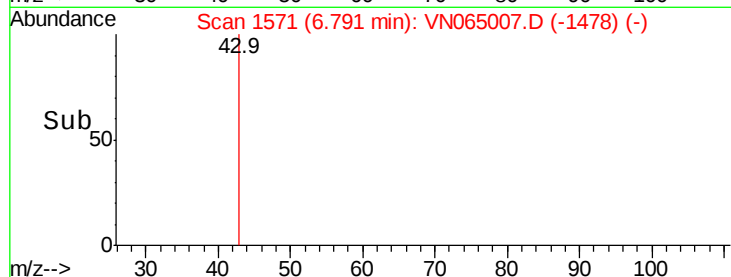
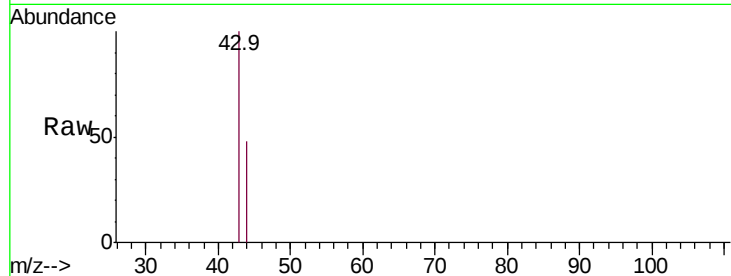
Time-->



#25
2-Butanone
Concen: 0.852 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN065007.D
Acq: 9 Dec 2020 7:28

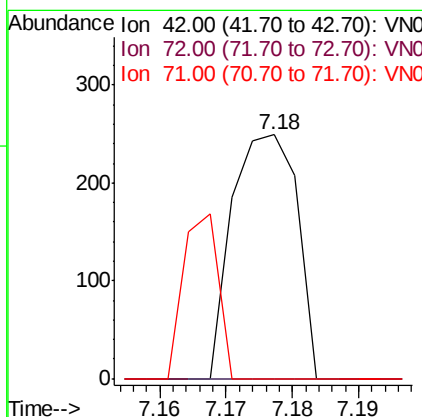
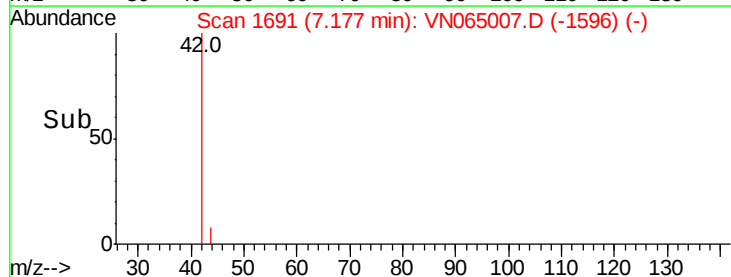
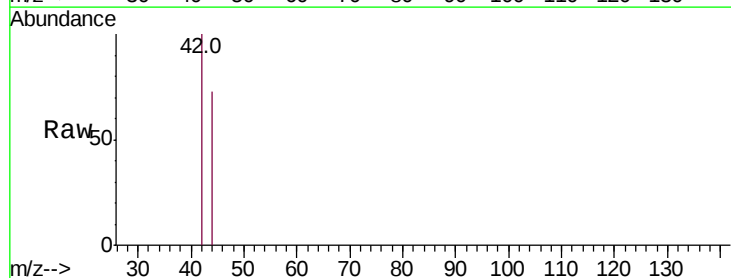
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4S1-C-BOTTOM

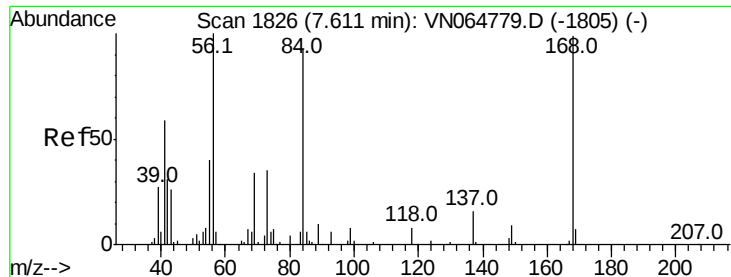
Tot Ion: 43 Resp: 864
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



#29
Tetrahydrofuran
Concen: 0.244 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.01 min
Lab File: VN065007.D
Acq: 9 Dec 2020 7:28

Tgt Ion: 42 Resp: 171
Ion Ratio Lower Upper
42 100
72 0.0 36.6 54.8#
71 35.7 33.6 50.4

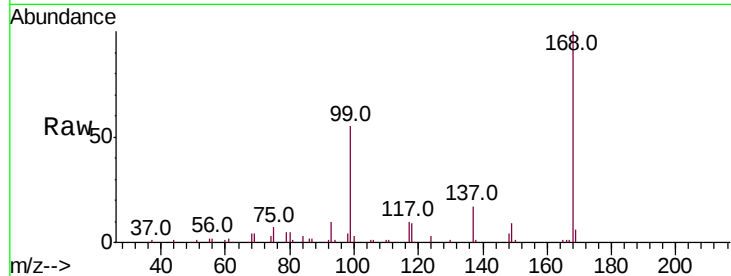




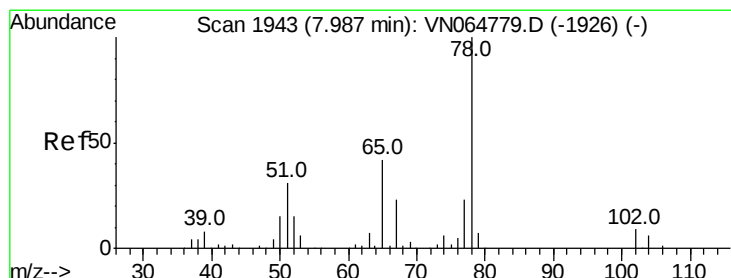
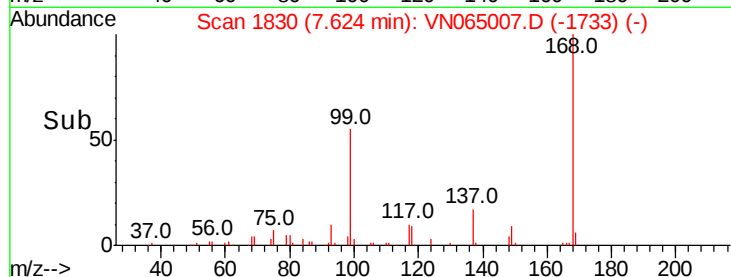
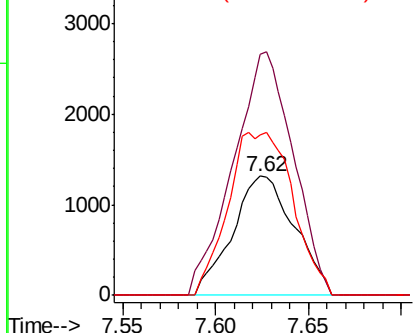
#31
Cyclohexane
Concen: 1.159 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN065007.D
Acq: 9 Dec 2020 7:28

Instrument :
MSVOA_N
ClientSampleId :
4S1-C-BOTTOM

Tot Ion: 56 Resp: 3073
Ion Ratio Lower Upper
56 100
69 202.0 27.5 41.3#
84 134.4 73.9 110.9#

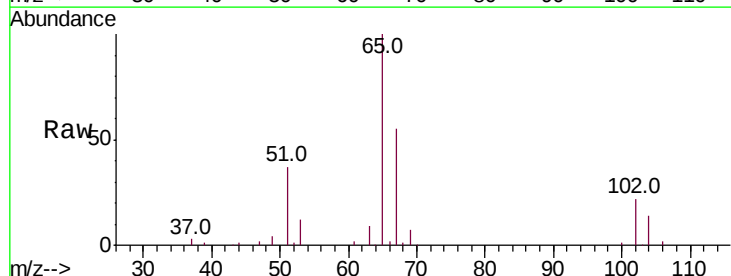


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

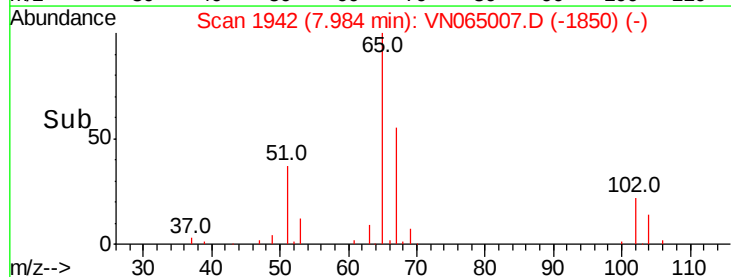
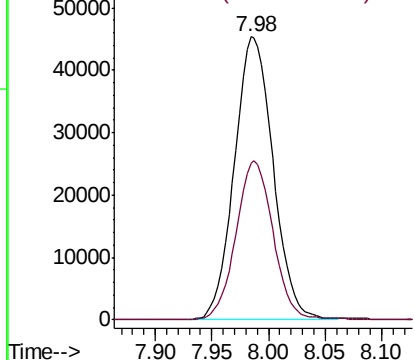


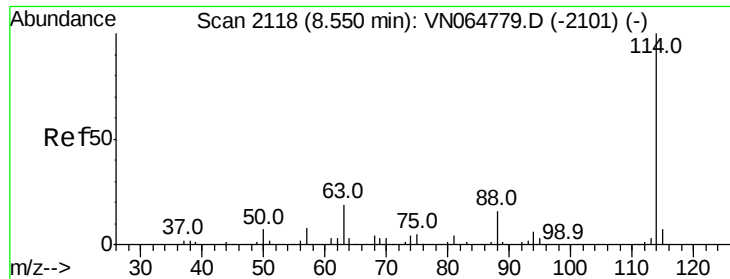
#33
1,2-Dichloroethane-d4
Concen: 56.911 ug/l
RT: 7.98 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN065007.D
Acq: 9 Dec 2020 7:28

Tgt Ion: 65 Resp: 108286
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.2



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

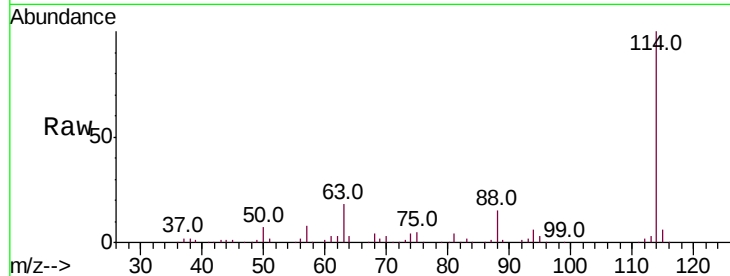




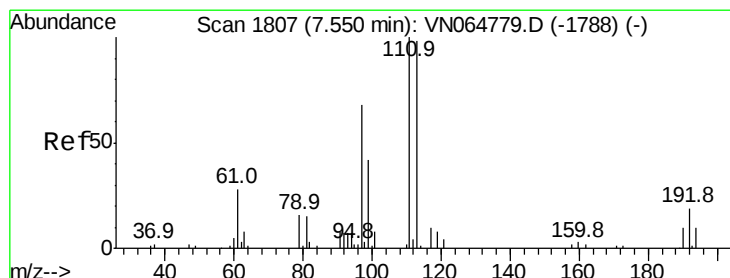
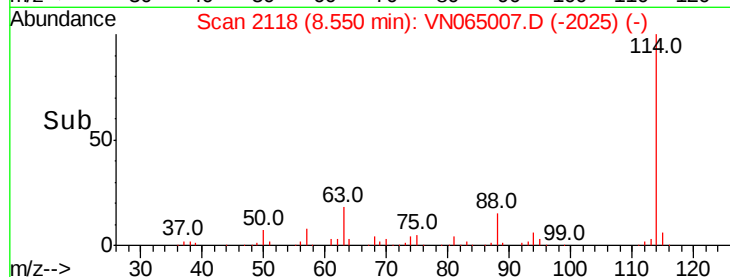
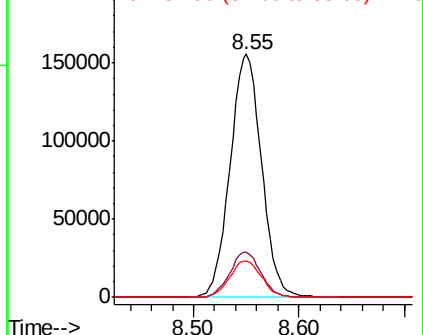
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065007.D
 Acq: 9 Dec 2020 7:28

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-C-BOTTOM

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	38.6
88	15.2	0.0	32.6

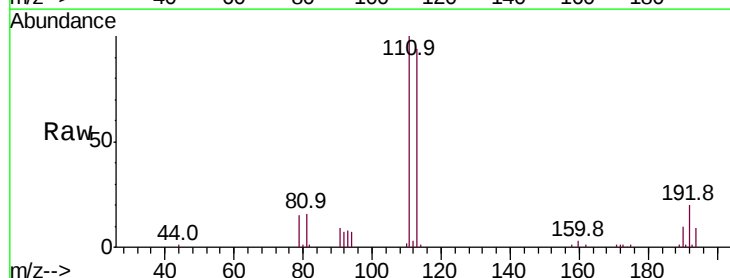


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

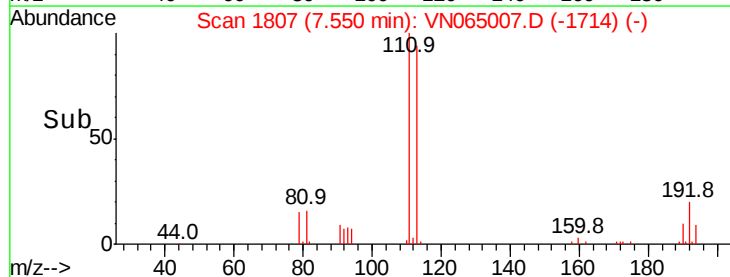
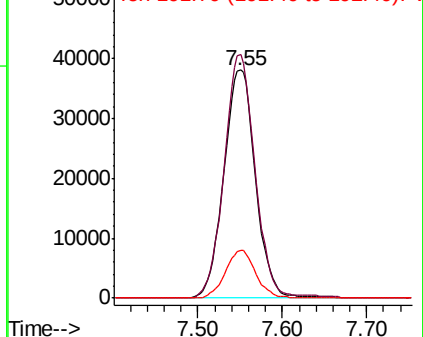


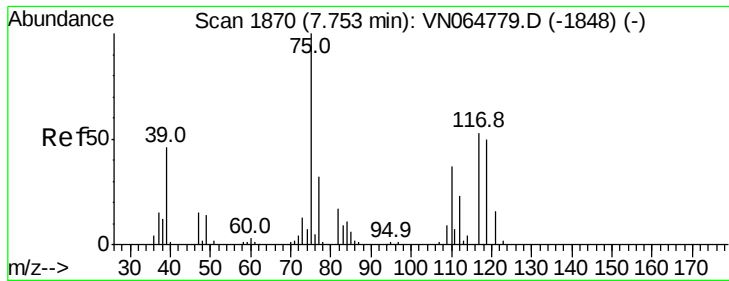
#35
 Dibromofluoromethane
 Concen: 51.580 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN065007.D
 Acq: 9 Dec 2020 7:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.6	122.4
192	19.9	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

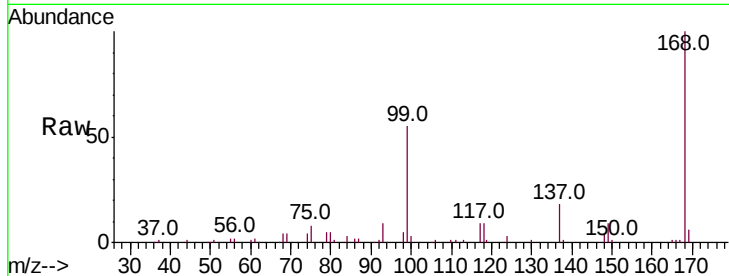




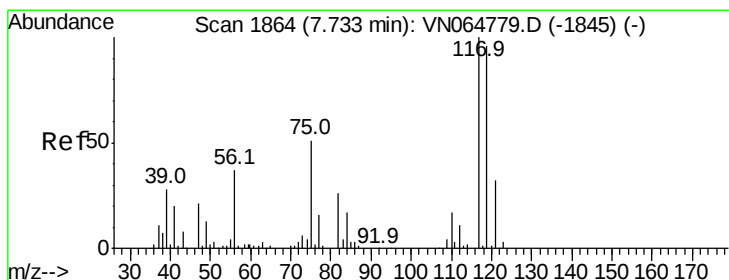
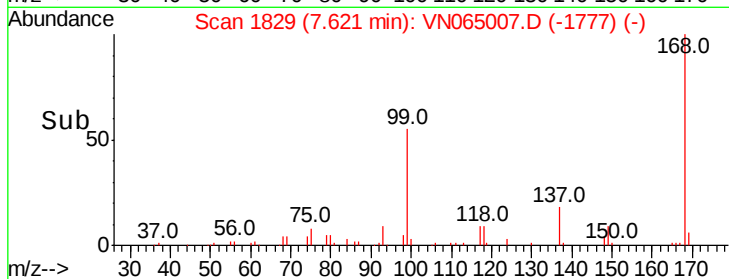
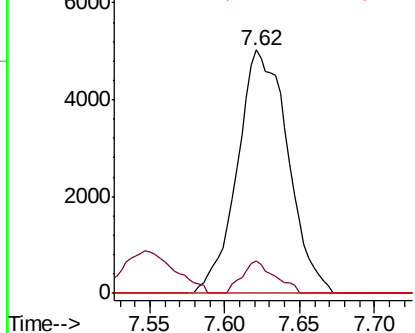
#36
 1,1-Dichloropropene
 Concen: 3.959 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN065007.D
 Acq: 9 Dec 2020 7:28

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-C-BOTTOM

Tot Ion: 75 Resp: 11816
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.8 53.3#
 77 0.0 25.0 37.4#

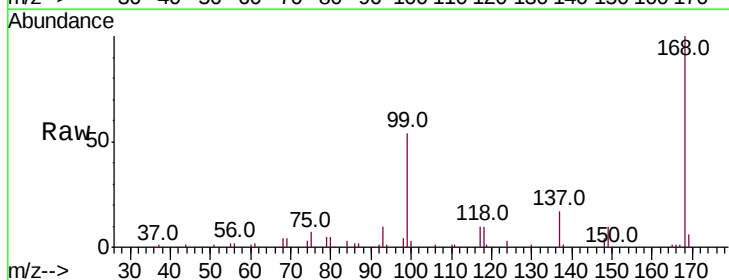


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

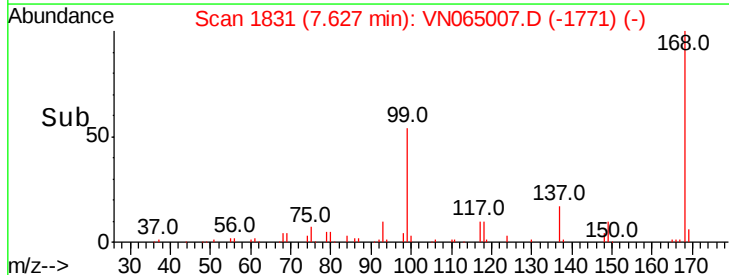
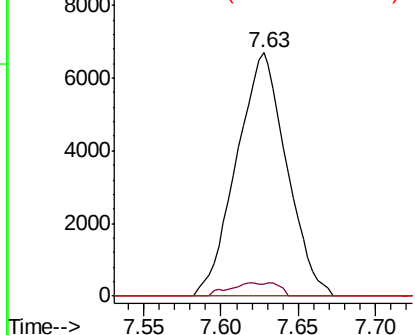


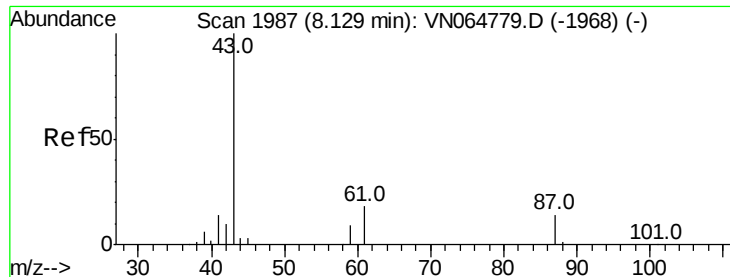
#38
 Carbon Tetrachloride
 Concen: 4.858 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN065007.D
 Acq: 9 Dec 2020 7:28

Tgt Ion: 117 Resp: 15087
 Ion Ratio Lower Upper
 117 100
 119 5.1 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: 3.380 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

Instrument :

MSVOA_N

ClientSampleId :

4S1-C-BOTTOM

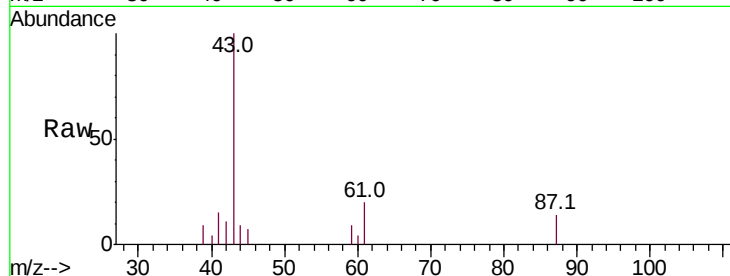
Tot Ion: 43 Resp: 15638

Ion Ratio Lower Upper

43 100

61 16.0 17.2 25.8#

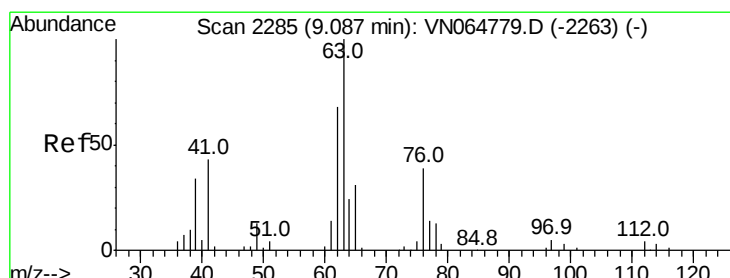
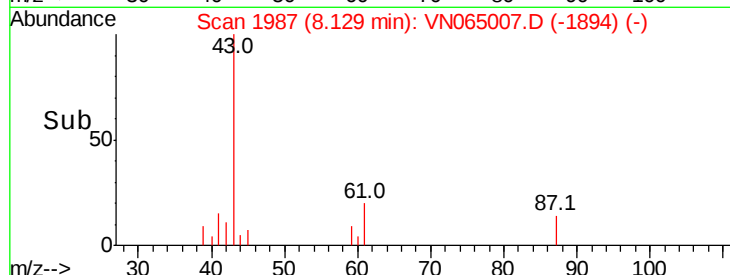
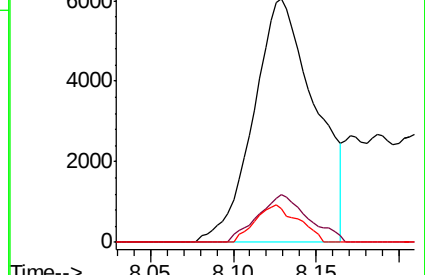
87 10.8 11.4 17.0#



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN064779.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN064779.D (-1968) (-)



#45

1,2-Dichloropropane

Concen: 0.378 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN065007.D

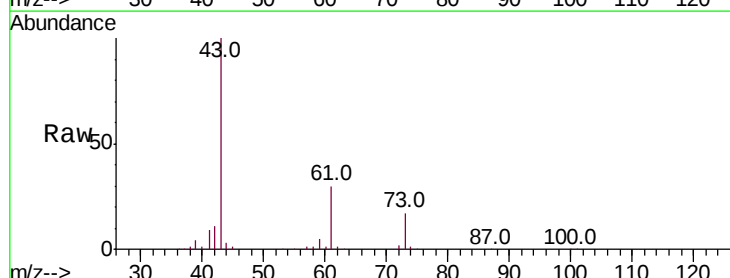
Acq: 9 Dec 2020 7:28

Tgt Ion: 63 Resp: 895

Ion Ratio Lower Upper

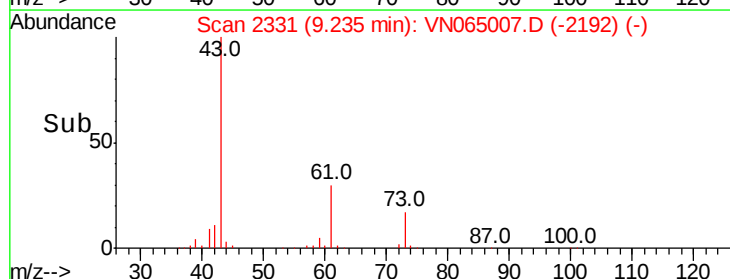
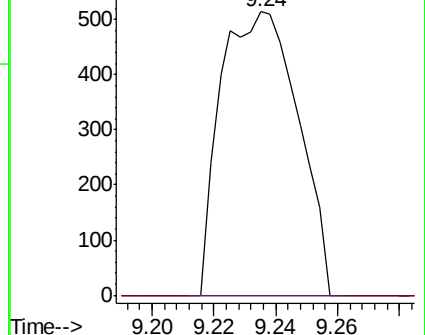
63 100

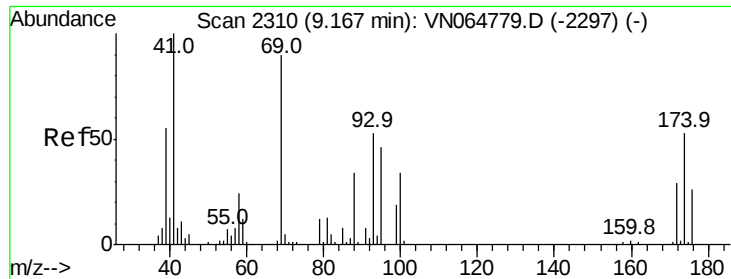
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN064779.D (-2263) (-)

Ion 64.90 (64.60 to 65.60): VN064779.D (-2263) (-)

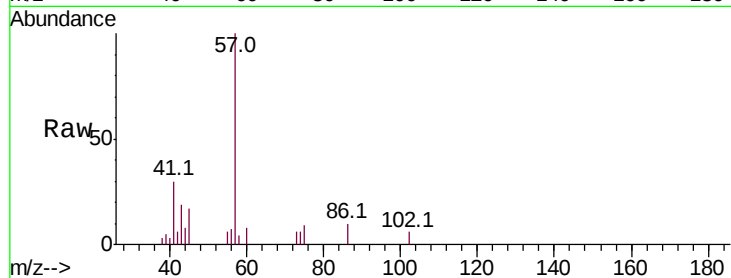




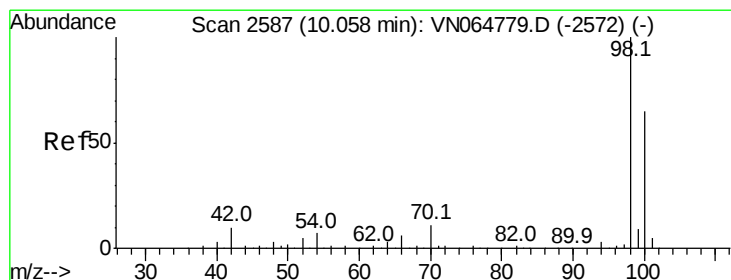
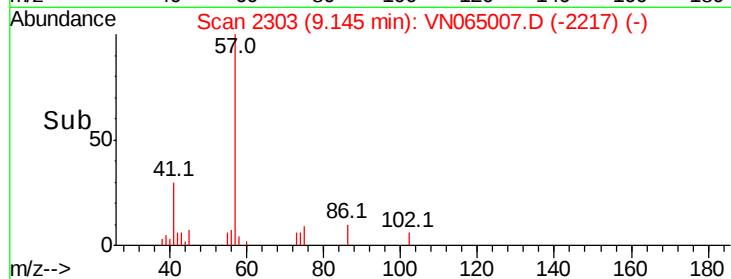
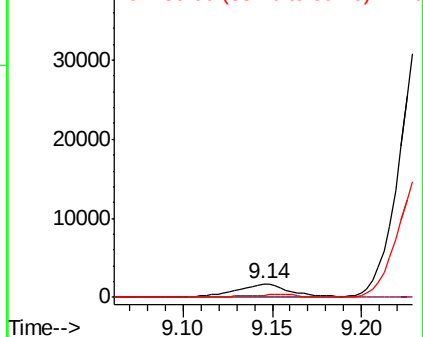
#48
Methvl methacrylate
Concen: 1.616 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN065007.D
Acq: 9 Dec 2020 7:28

Instrument :
MSVOA_N
ClientSampleId :
4S1-C-BOTTOM

Tot Ion: 41 Resp: 3573
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

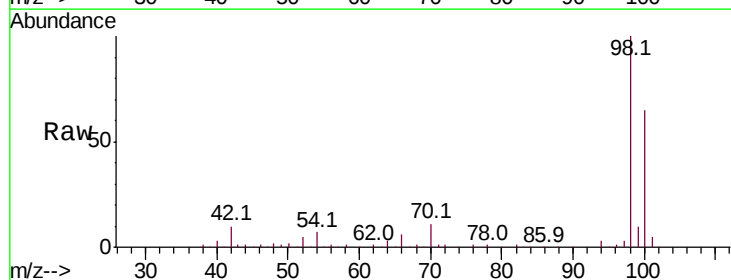


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

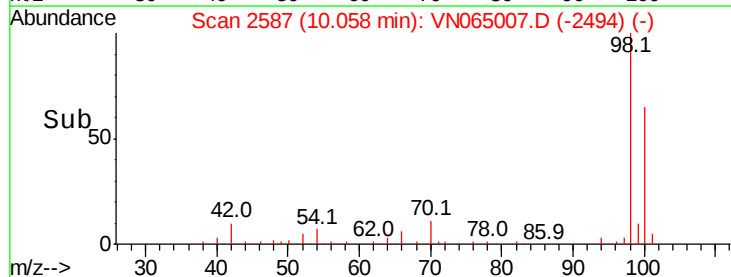
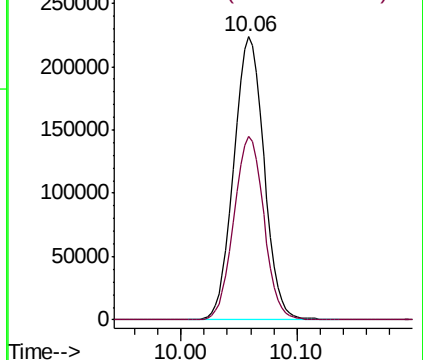


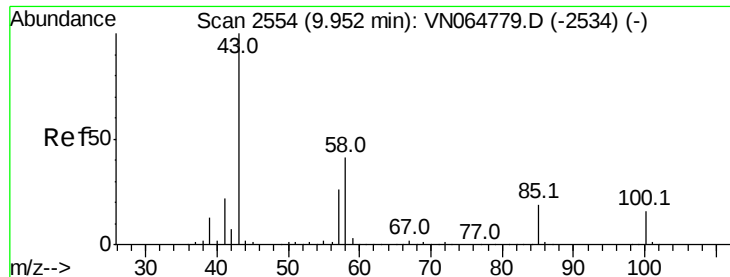
#50
Toluene-d8
Concen: 51.334 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN065007.D
Acq: 9 Dec 2020 7:28

Tgt Ion: 98 Resp: 404136
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.075 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

Instrument :

MSVOA_N

ClientSampleId :

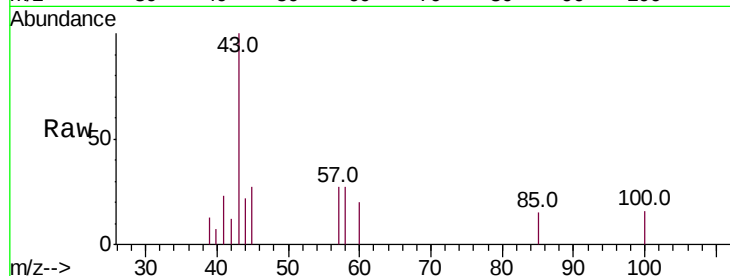
4S1-C-BOTTOM

Tot Ion: 43 Resp: 2986

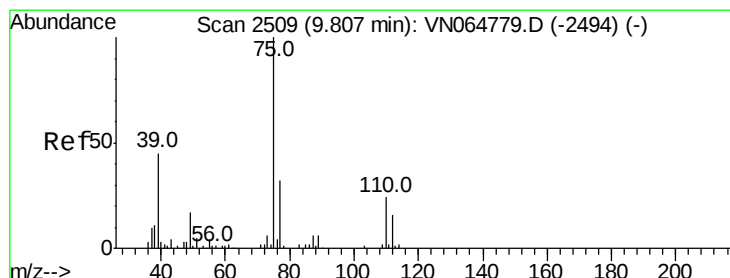
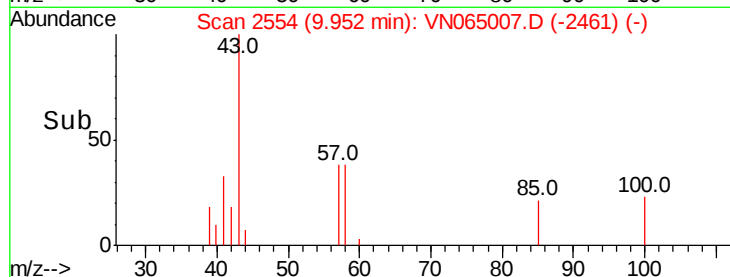
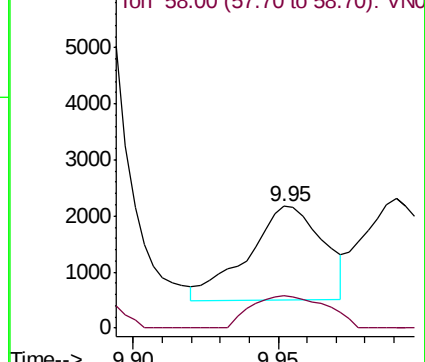
Ion Ratio Lower Upper

43 100

58 35.5 32.4 48.6



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



#54

cis-1,3-Dichloropropene

Concen: 6.041 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

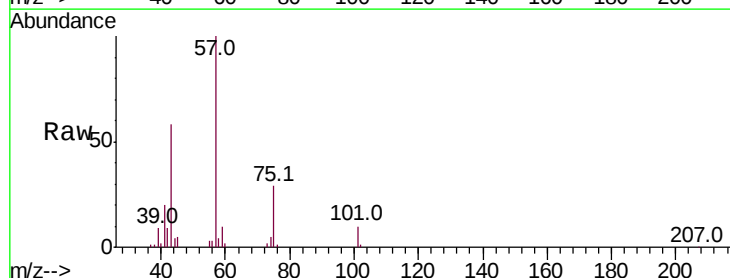
Tgt Ion: 75 Resp: 22963

Ion Ratio Lower Upper

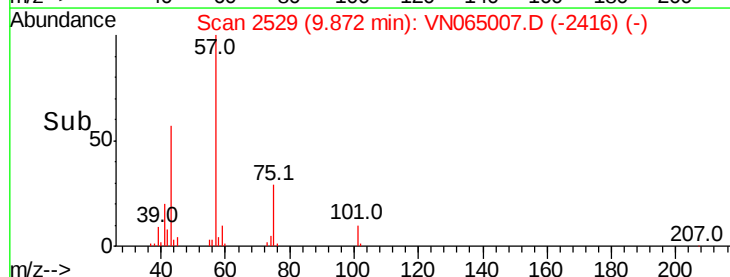
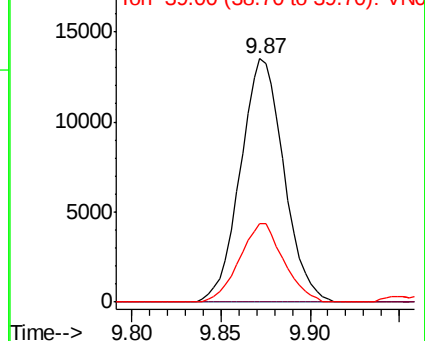
75 100

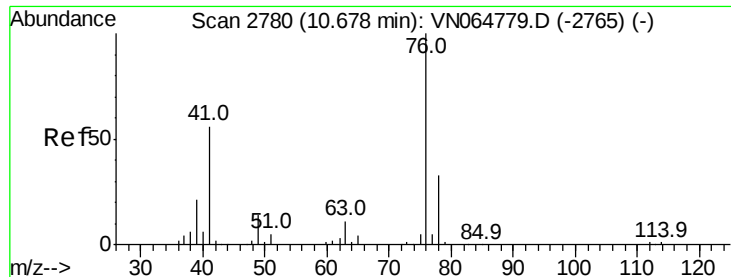
77 0.0 25.5 38.3#

39 32.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-2494) (-)





#57

1,3-Dichloropropane

Concen: 3.399 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

Instrument :

MSVOA_N

ClientSampleId :

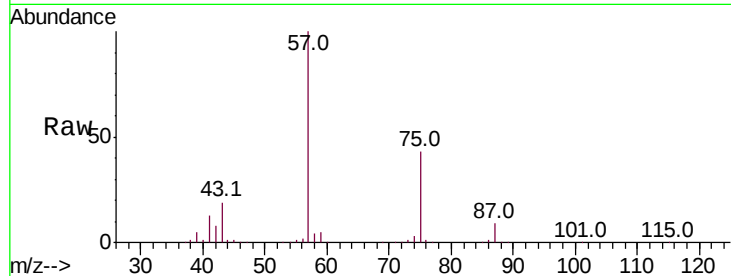
4S1-C-BOTTOM

Tot Ion: 76 Resp: 12987

Ion Ratio Lower Upper

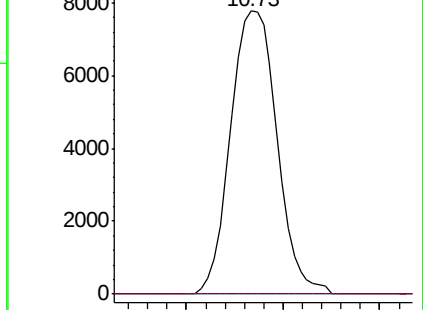
76 100

78 0.0 26.1 39.1#

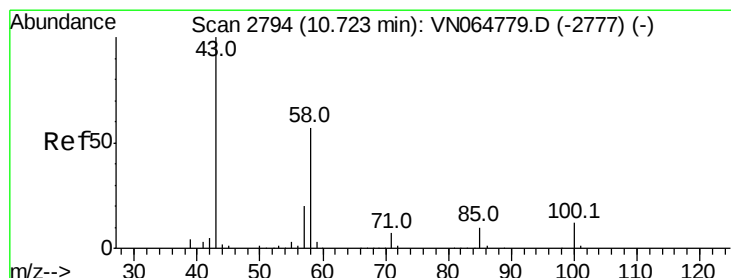
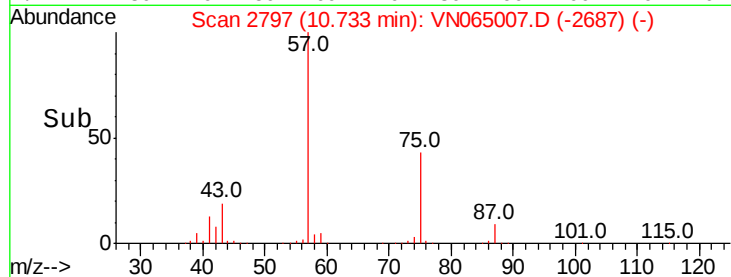


Abundance Ion 75.90 (75.60 to 76.60): VN064779.D (-2765) (-)

Ion 77.90 (77.60 to 78.60): VN064779.D (-2765) (-)



Time-->



#59

2-Hexanone

Concen: 84.362 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN065007.D

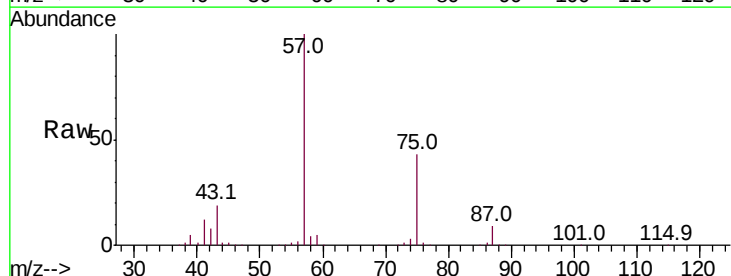
Acq: 9 Dec 2020 7:28

Tgt Ion: 43 Resp: 168626

Ion Ratio Lower Upper

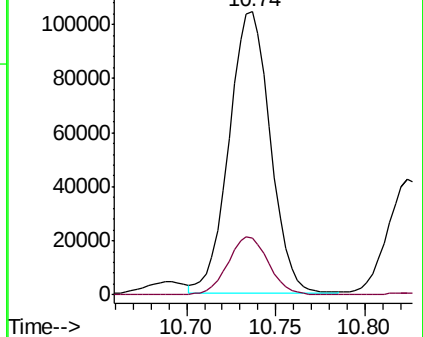
43 100

58 20.5 28.3 84.9#

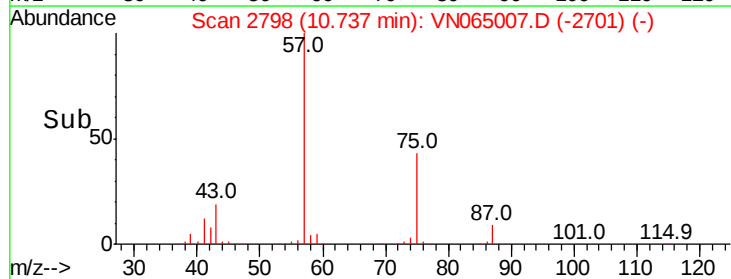


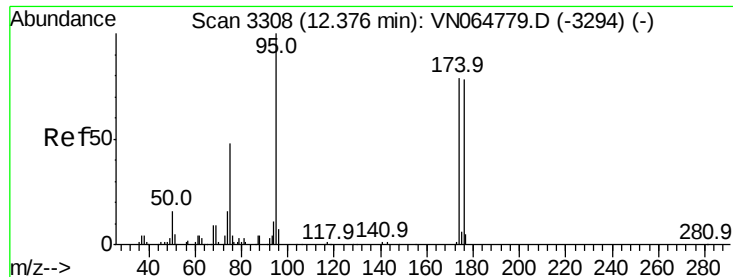
Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2777) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2777) (-)



Time-->





#62

4-Bromofluorobenzene

Concen: 53.069 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

Instrument :

MSVOA_N

ClientSampleId :

4S1-C-BOTTOM

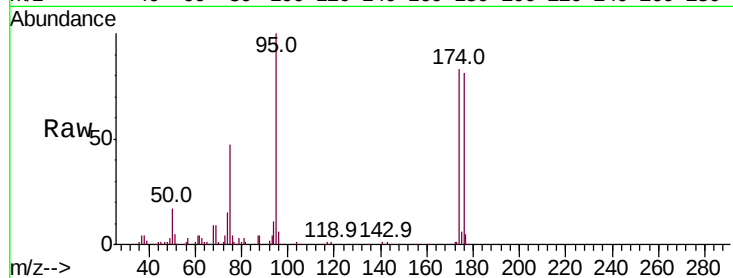
Tot Ion: 95 Resp: 149520

Ion Ratio Lower Upper

95 100

174 82.6 0.0 160.4

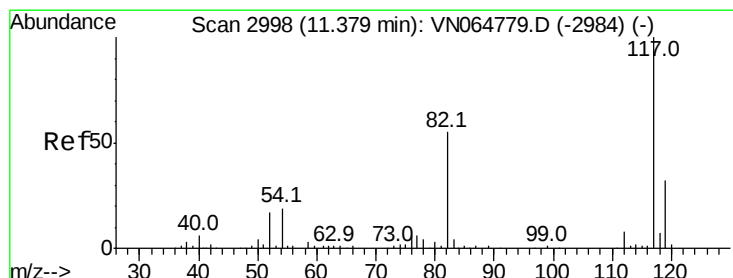
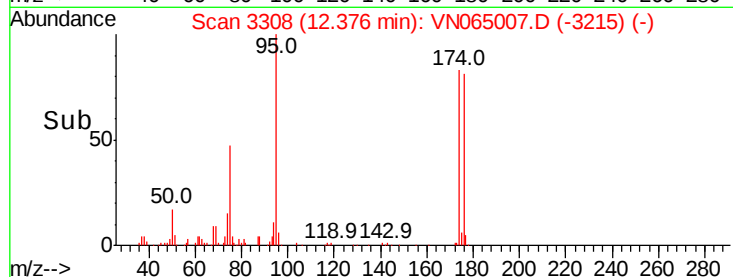
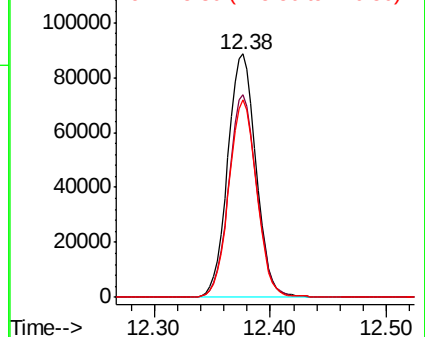
176 79.9 0.0 158.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

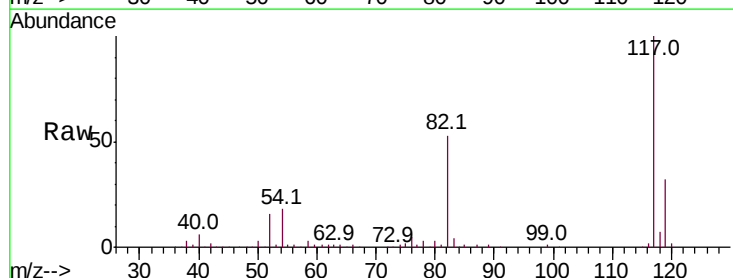
Tgt Ion: 117 Resp: 340704

Ion Ratio Lower Upper

117 100

82 53.2 44.2 66.2

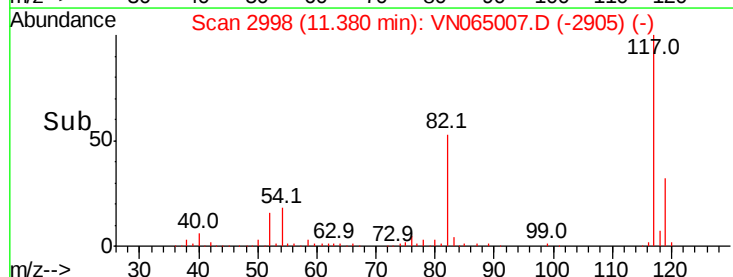
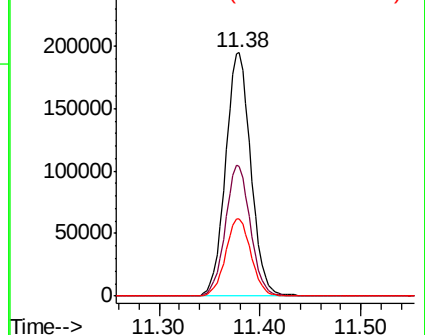
119 31.8 25.8 38.6

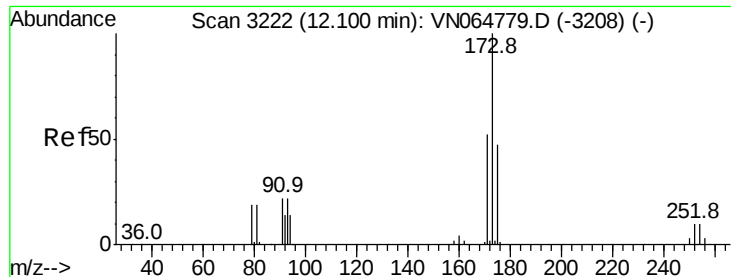


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.495 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

Instrument :

MSVOA_N

ClientSampleId :

4S1-C-BOTTOM

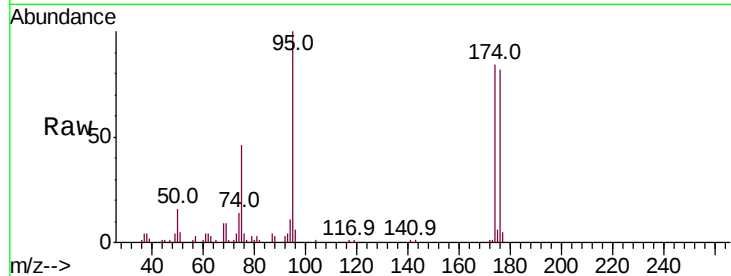
Tot Ion:173 Resp: 1062

Ion Ratio Lower Upper

173 100

175 736.3 24.3 72.8#

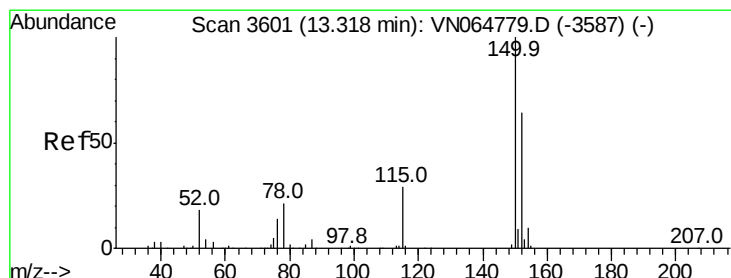
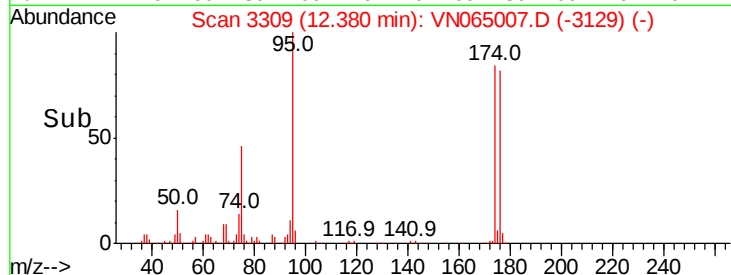
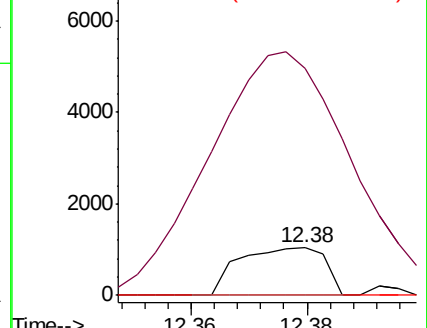
254 0.0 0.0 0.0



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# 3601

Delta R.T. 0.00 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

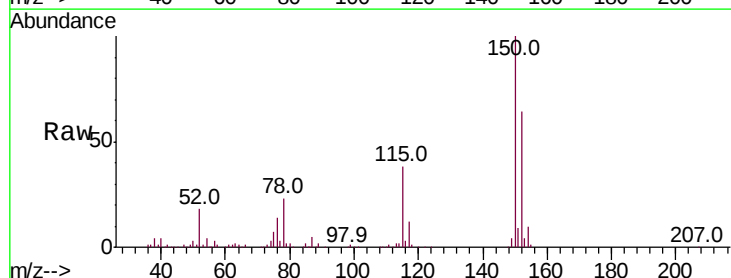
Tgt Ion:152 Resp: 140771

Ion Ratio Lower Upper

152 100

115 58.3 29.7 89.1

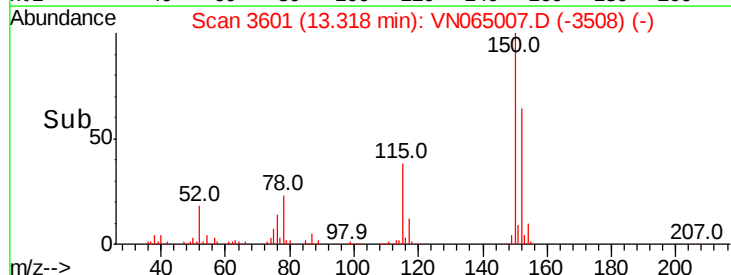
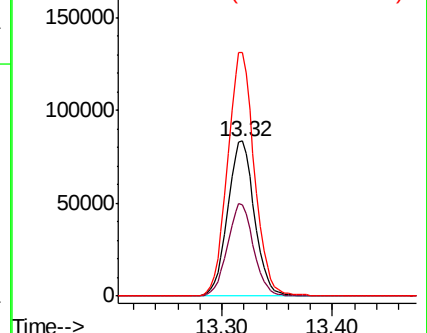
150 157.6 0.0 350.6

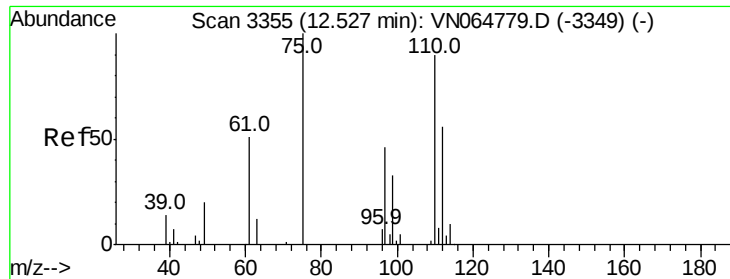


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.789 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

Instrument :

MSVOA_N

ClientSampleId :

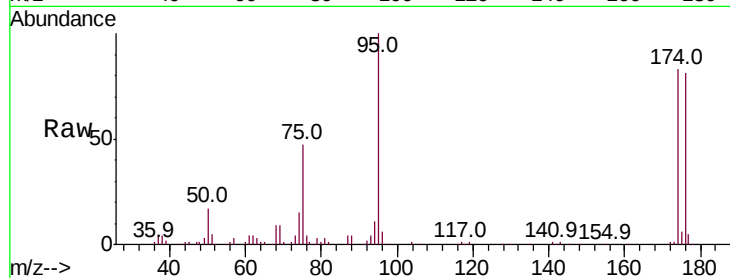
4S1-C-BOTTOM

Tot Ion: 75 Resp: 69089

Ion Ratio Lower Upper

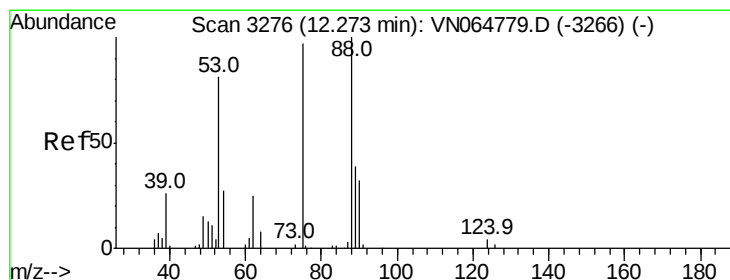
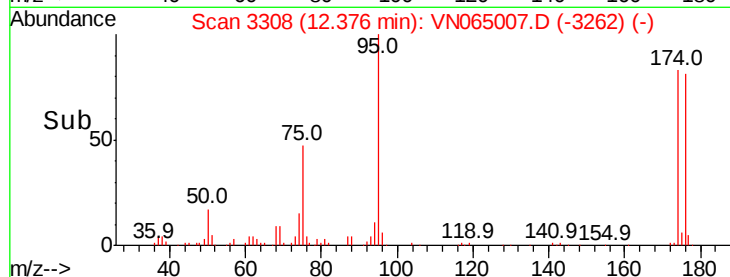
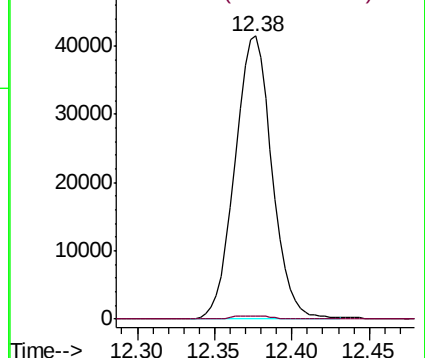
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 62.460 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN065007.D

Acq: 9 Dec 2020 7:28

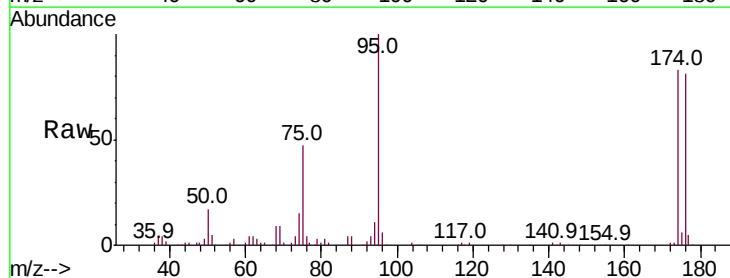
Tgt Ion: 75 Resp: 69089

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

