

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064994.D
 Acq On : 9 Dec 2020 2:15
 Operator : JC/MD
 Sample : L4970-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-A-TOP

Quant Time: Dec 09 07:59:18 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	164901	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	315644	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	335189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	142175	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	108117	56.40	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	112.80%	
35) Dibromofluoromethane		7.55	113	98791	52.31	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	104.62%	
50) Toluene-d8		10.06	98	397091	51.46	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.92%	
62) 4-Bromofluorobenzene		12.38	95	150886	54.63	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	109.26%	

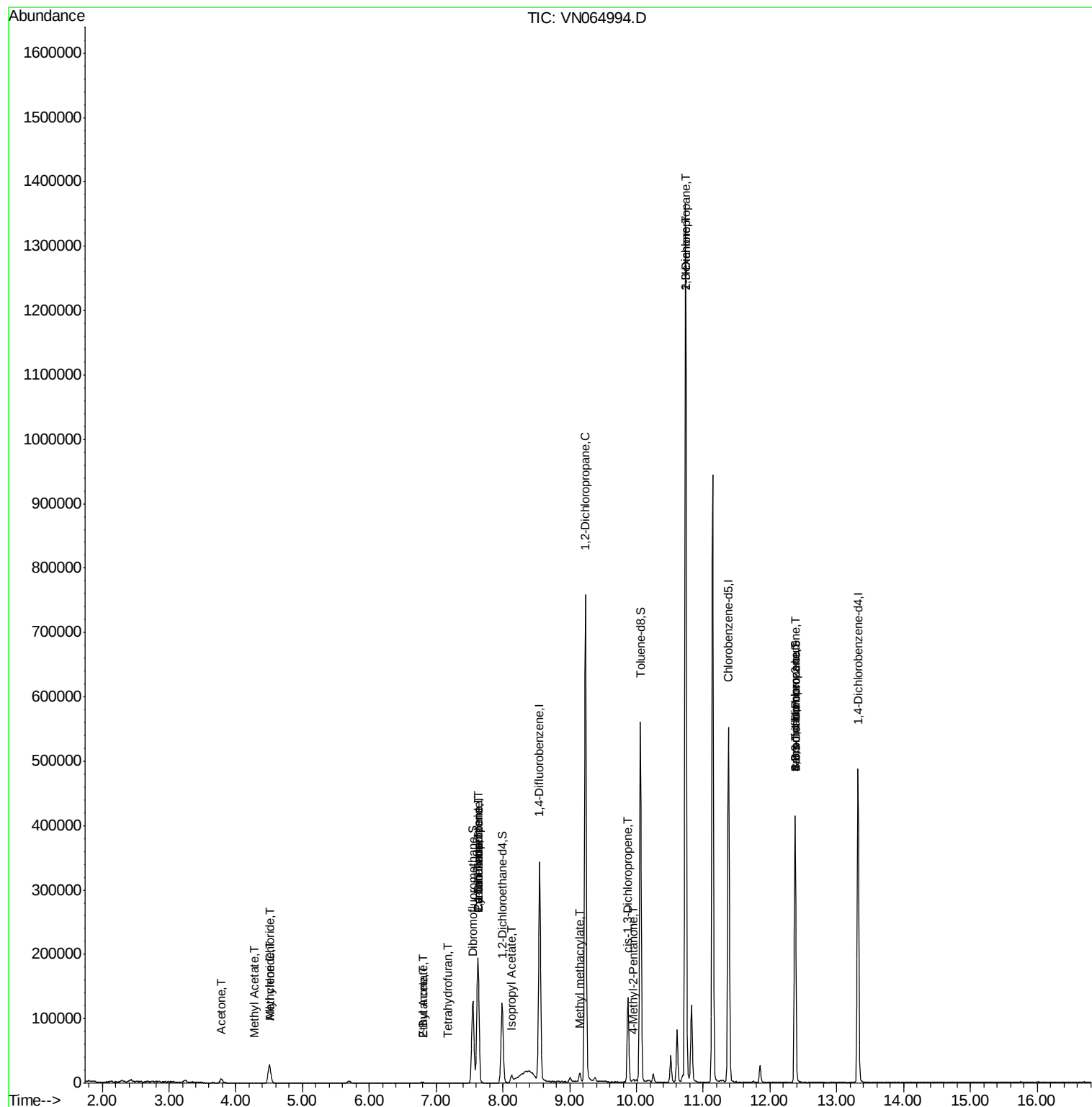
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.51	41	674	0.256	ug/l #	26
16) Acetone	3.78	43	11966	18.988	ug/l	98
18) Methyl Acetate	4.29	43	575	0.303	ug/l #	50
20) Methylene Chloride	4.51	84	21746	11.012	ug/l	94
25) 2-Butanone	6.81	43	1619	1.585	ug/l #	49
29) Tetrahydrofuran	7.17	42	249	0.353	ug/l #	32
31) Cyclohexane	7.62	56	2699	1.010	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11714	4.004	ug/l #	46
37) Ethyl Acetate	6.81	43	1619	0.574	ug/l #	66
38) Carbon Tetrachloride	7.63	117	15683	5.152	ug/l #	17
43) Isopropyl Acetate	8.13	43	15381	3.392	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	943	0.406	ug/l #	43
48) Methyl methacrylate	9.14	41	3452	1.593	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3271	1.201	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	23883	6.410	ug/l #	63
57) 1,3-Dichloropropane	10.73	76	14105	3.766	ug/l #	42
59) 2-Hexanone	10.74	43	182114	92.946	ug/l #	50
71) Bromoform	12.38	173	1039	0.492	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	71641	23.398	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	71641	64.128	ug/l #	15

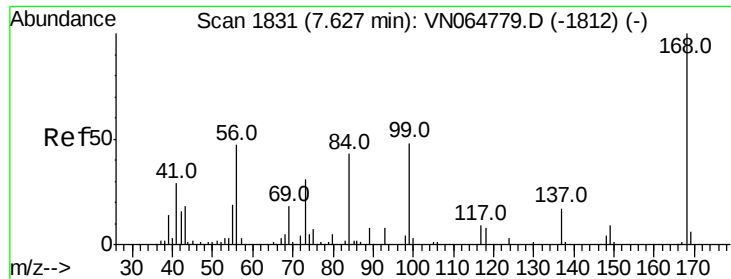
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN064994.D

Acq: 9 Dec 2020 2:15

Instrument :

MSVOA_N

ClientSampleId :

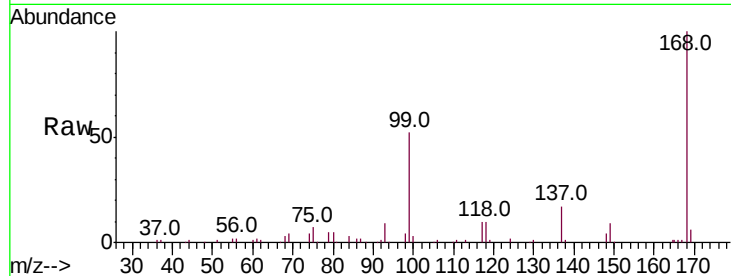
4S2-A-TOP

Tot Ion:168 Resp: 164901

Ion Ratio Lower Upper

168 100

99 52.0 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

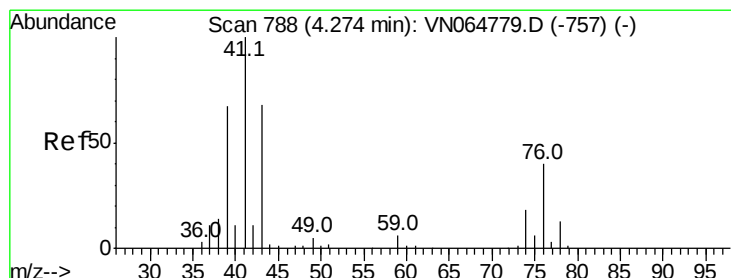
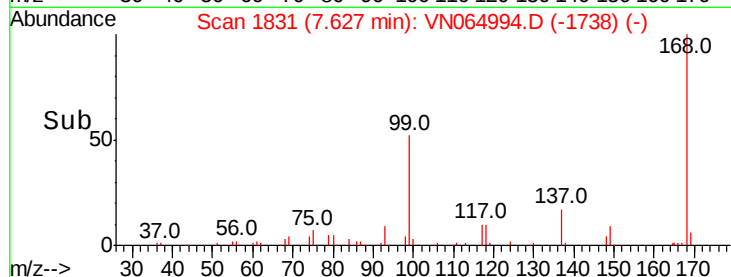
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#14

Allyl chloride

Concen: 0.256 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.23 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

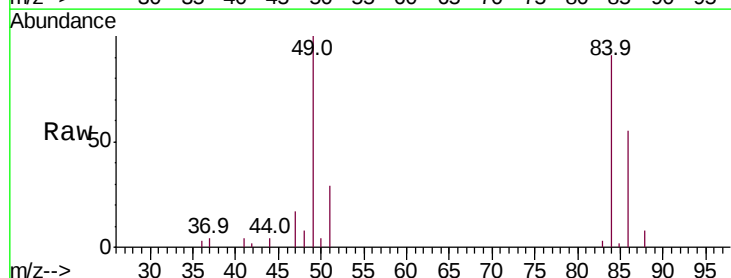
Tgt Ion: 41 Resp: 674

Ion Ratio Lower Upper

41 100

39 0.0 50.9 76.3#

76 0.0 29.0 43.4#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

4.51

400

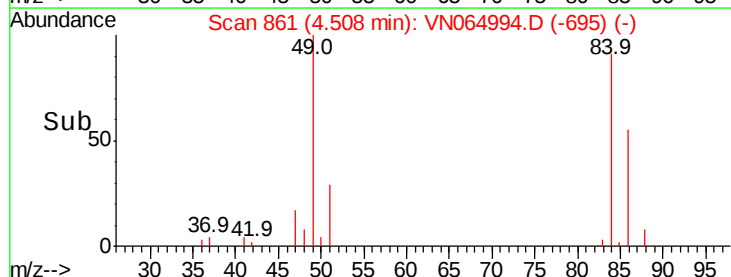
300

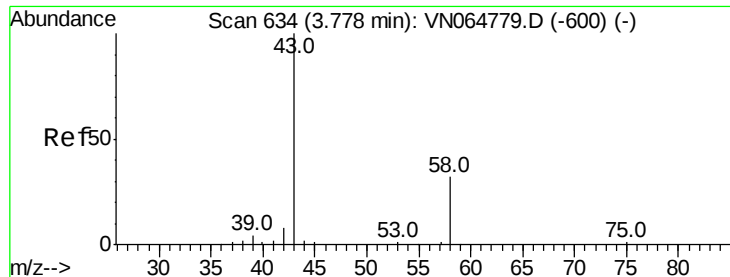
200

100

0

Time--> 4.46 4.48 4.50 4.52 4.54





#16

Acetone

Concen: 18.988 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

Instrument :

MSVOA_N

ClientSampleId :

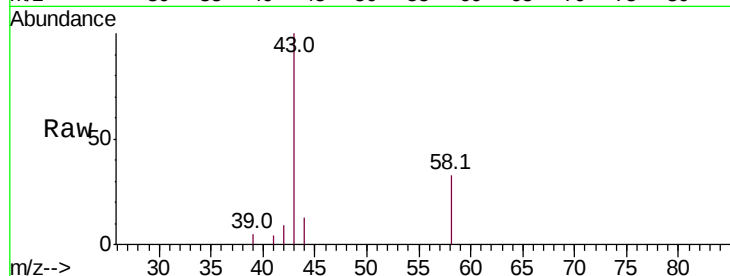
4S2-A-TOP

Tot Ion: 43 Resp: 11966

Ion Ratio Lower Upper

43 100

58 33.2 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064994.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN064994.D (-541) (-)

3.78

4000

3000

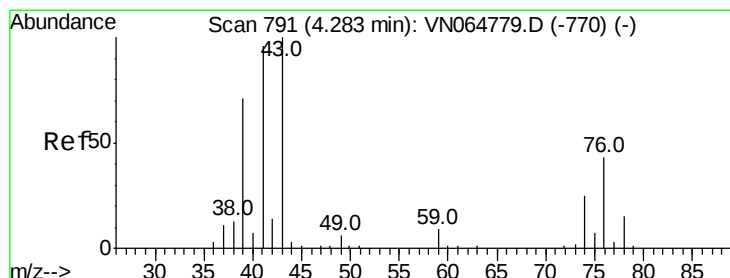
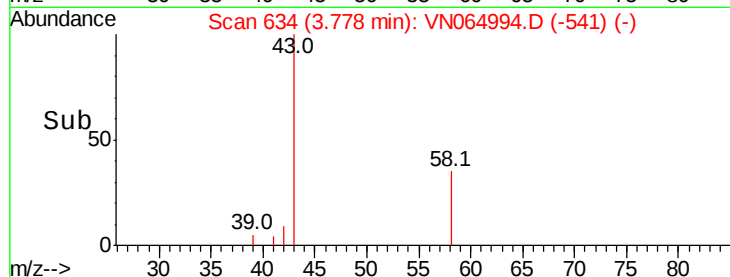
2000

1000

0

Time-->

3.70 3.75 3.80 3.85



#18

Methyl Acetate

Concen: 0.303 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064994.D

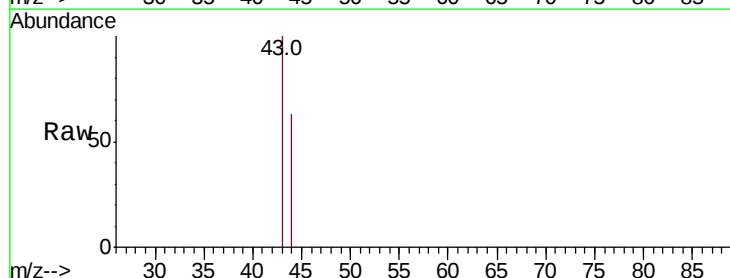
Acq: 9 Dec 2020 2:15

Tgt Ion: 43 Resp: 575

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN064994.D (-698) (-)

Ion 74.00 (73.70 to 74.70): VN064994.D (-698) (-)

4.29

400

300

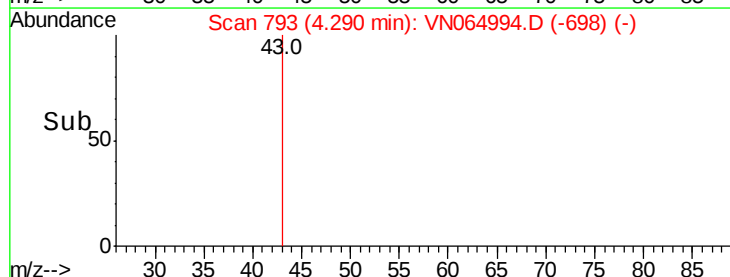
200

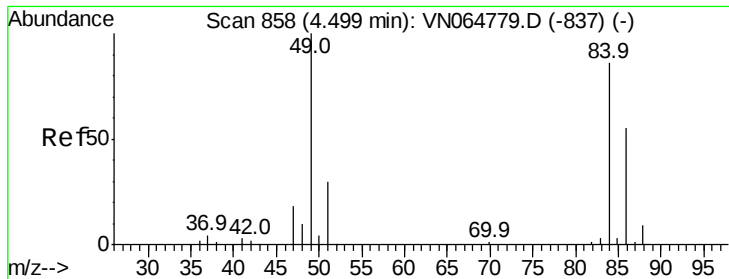
100

0

Time-->

4.28 4.30 4.32

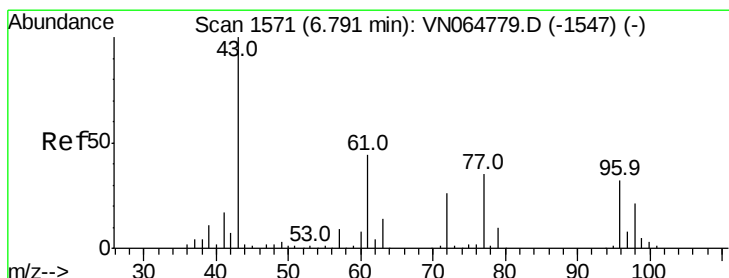
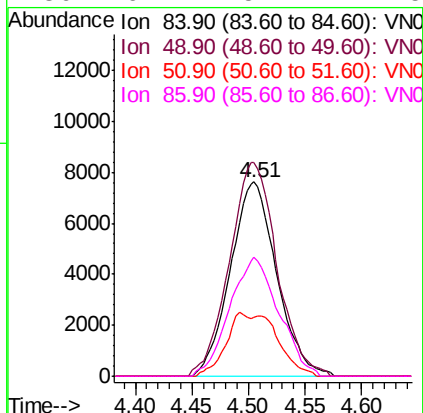
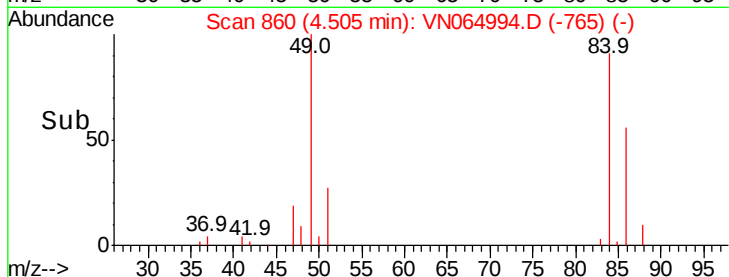
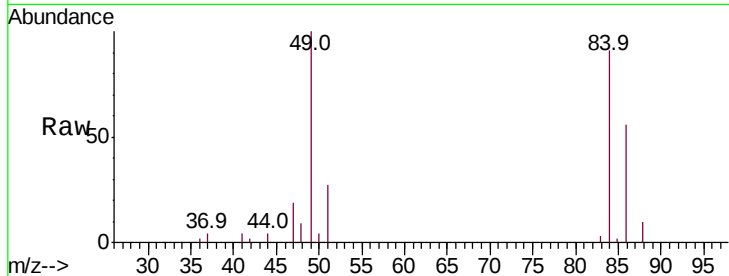




#20
Methvlene Chloride
Concen: 11.012 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN064994.D
Acq: 9 Dec 2020 2:15

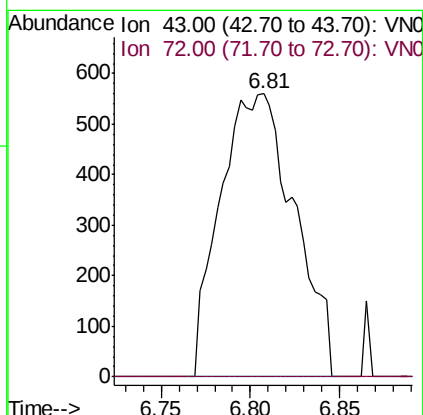
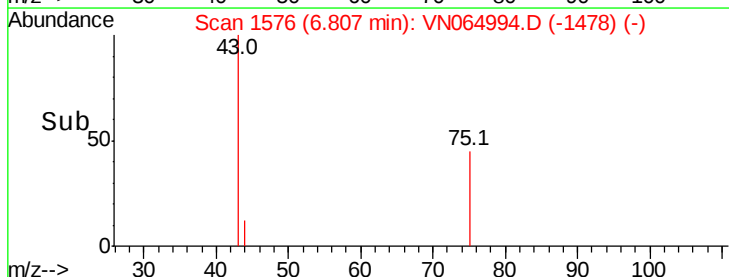
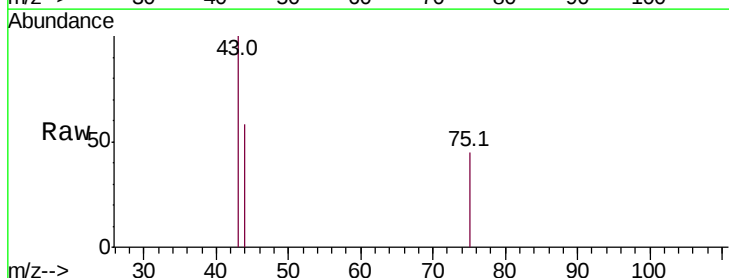
Instrument :
MSVOA_N
ClientSampled :
4S2-A-TOP

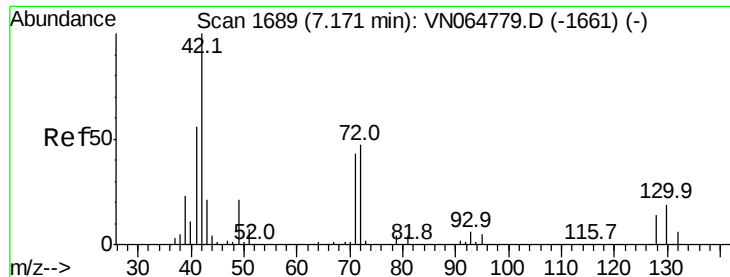
Tot Ion:	84	Resp:	21746
Ion	Ratio	Lower	Upper
84	100		
49	110.1	93.4	140.0
51	30.1	28.2	42.4
86	61.2	51.7	77.5



#25
2-Butanone
Concen: 1.585 ug/l
RT: 6.81 min Scan# 1576
Delta R.T. 0.02 min
Lab File: VN064994.D
Acq: 9 Dec 2020 2:15

Tgt Ion:	43	Resp:	1619
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.0	31.6#





#29

Tetrahydrofuran

Concen: 0.353 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

Instrument :

MSVOA_N

ClientSampleId :

4S2-A-TOP

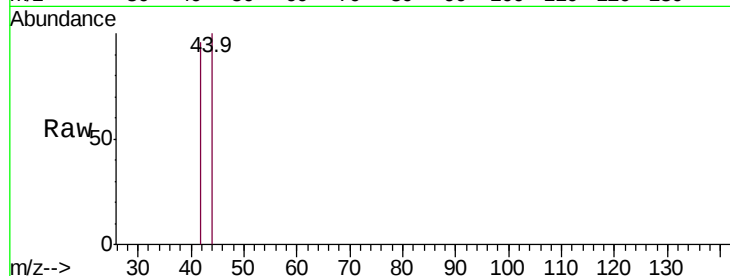
Tot Ion: 42 Resp: 249

Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

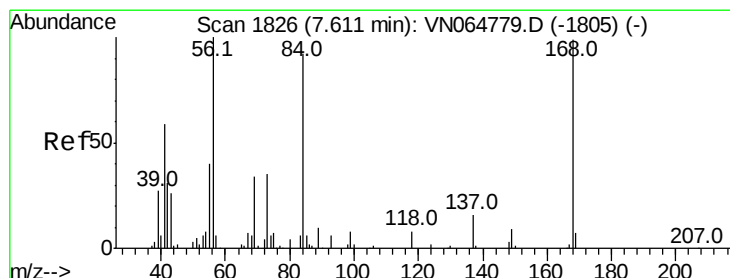
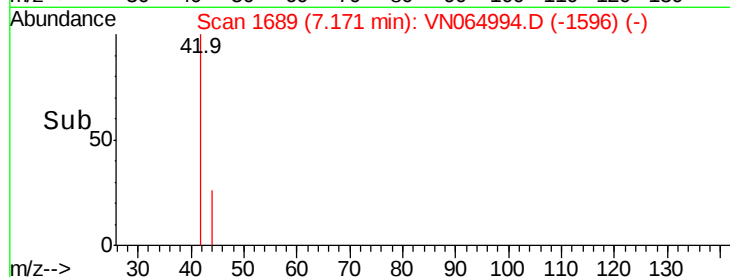
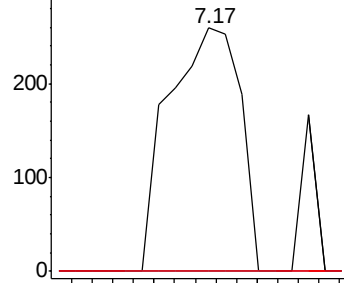
71 0.0 33.6 50.4#



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: 1.010 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

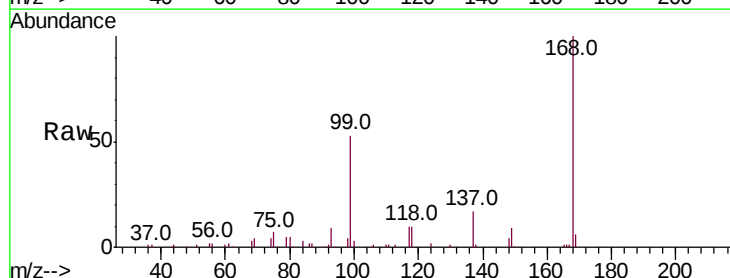
Tgt Ion: 56 Resp: 2699

Ion Ratio Lower Upper

56 100

69 195.4 27.5 41.3#

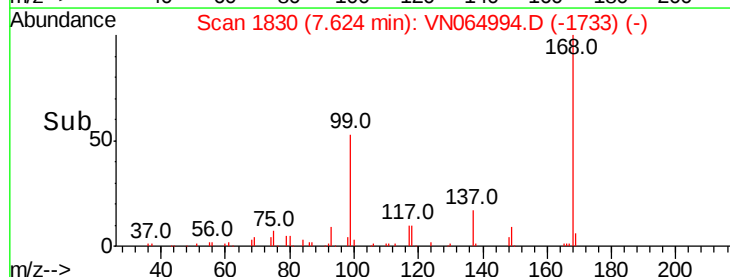
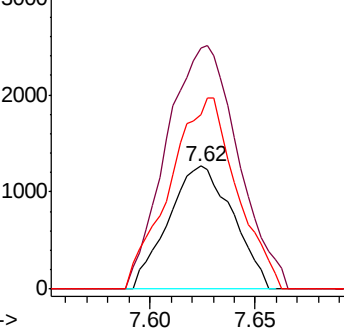
84 142.0 73.9 110.9#

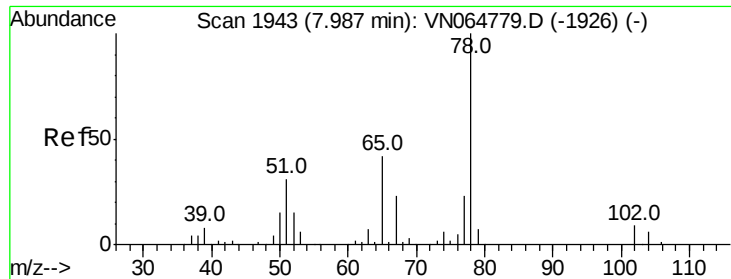


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 56.397 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

Instrument :

MSVOA_N

ClientSampleId :

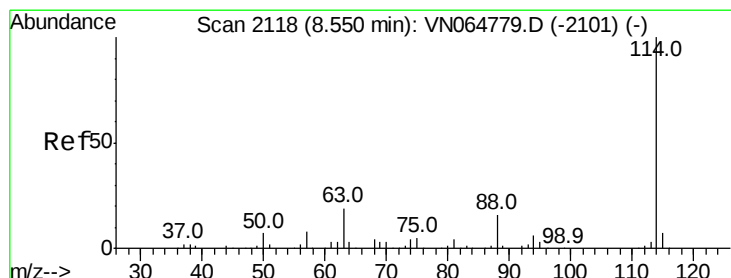
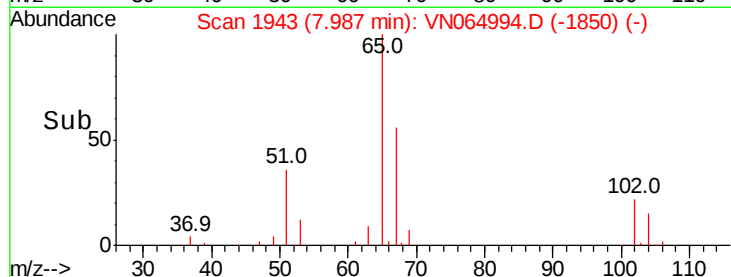
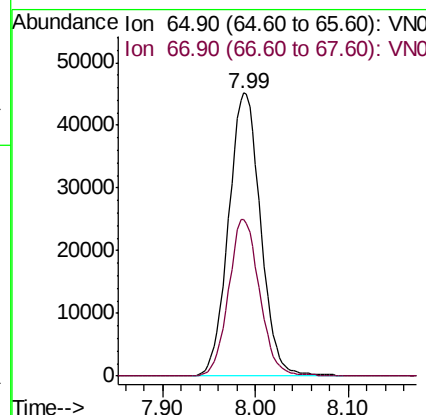
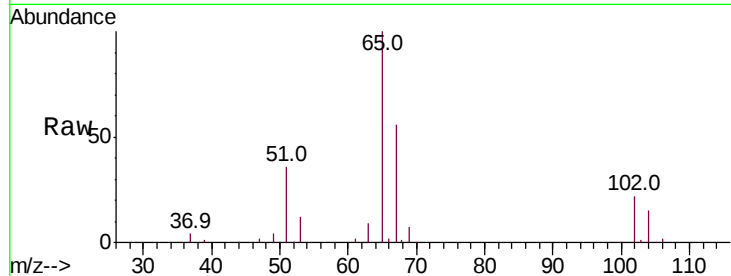
4S2-A-TOP

Tot Ion: 65 Resp: 108117

Ion Ratio Lower Upper

65 100

67 53.6 0.0 108.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

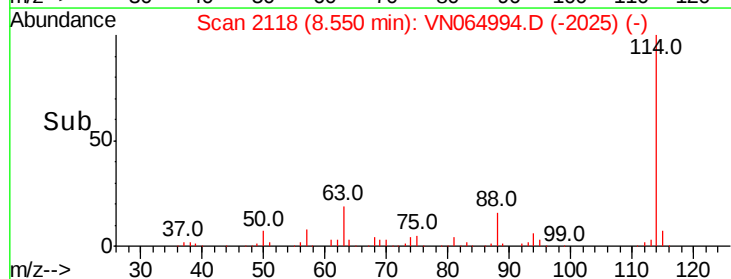
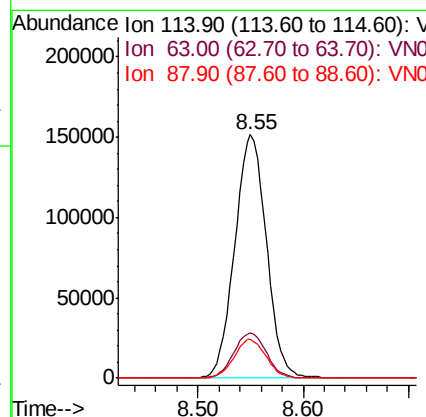
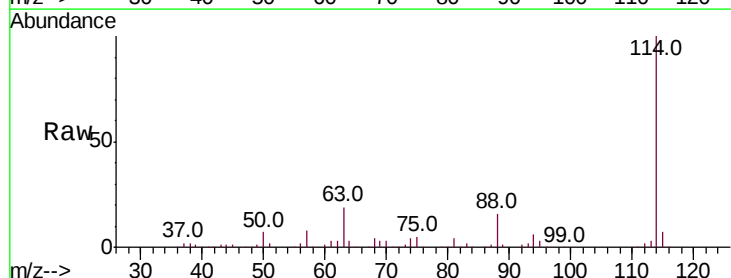
Tgt Ion: 114 Resp: 315644

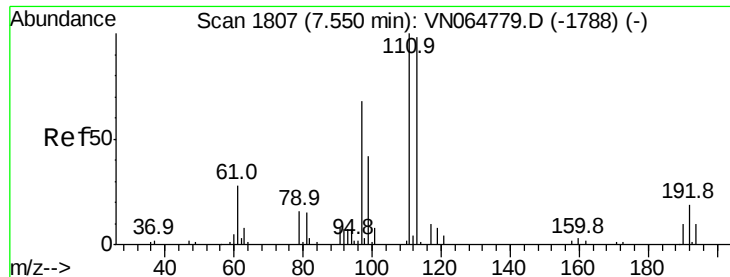
Ion Ratio Lower Upper

114 100

63 18.6 0.0 38.6

88 15.7 0.0 32.6

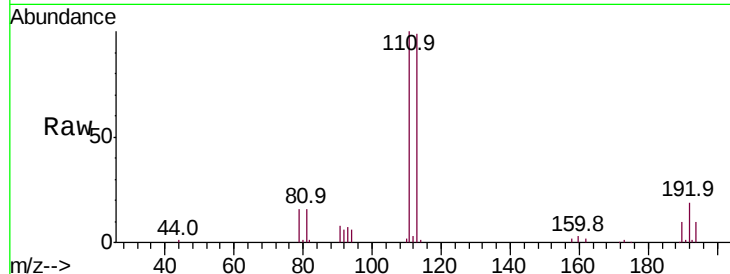




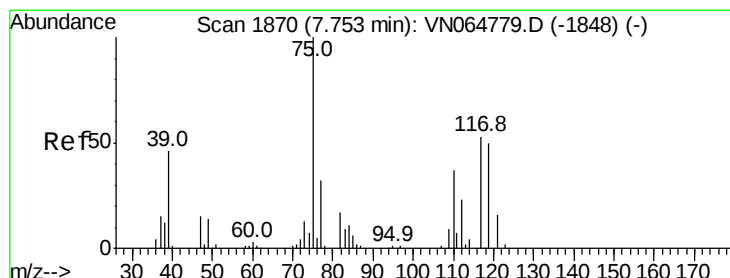
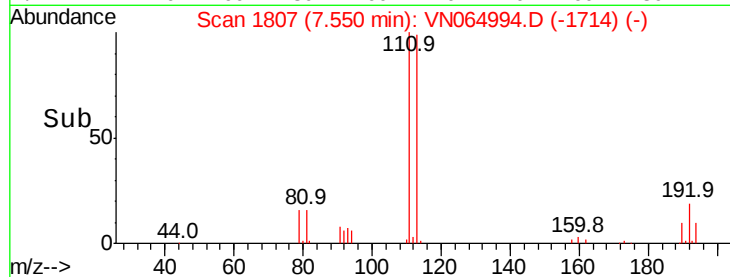
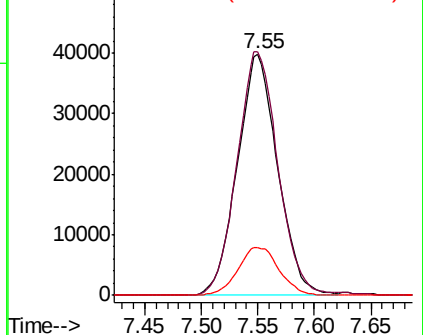
#35
 Dibromofluoromethane
 Concen: 52.306 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064994.D
 Acq: 9 Dec 2020 2:15

Instrument :
 MSVOA_N
 ClientSampled :
 4S2-A-TOP

Tot Ion:113 Resp: 98791
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.6 122.4
 192 20.2 16.2 24.2

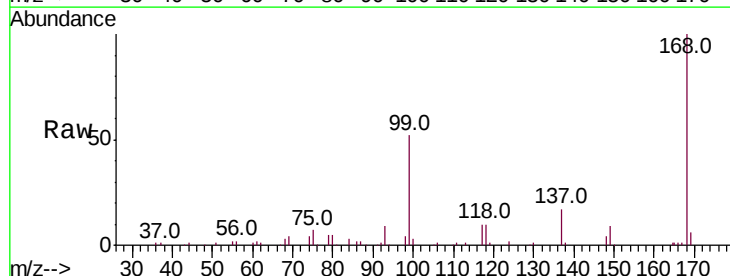


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

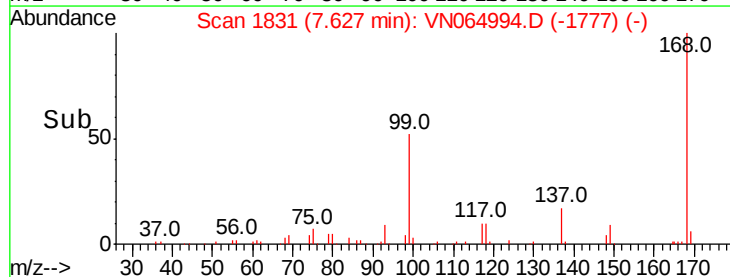
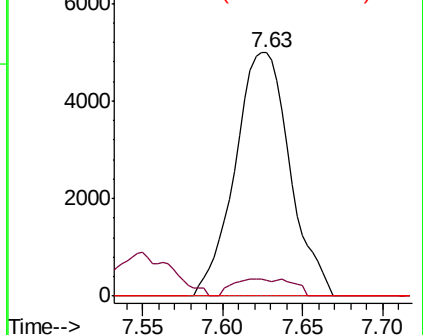


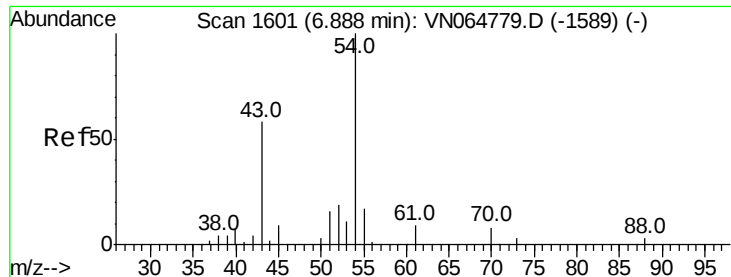
#36
 1,1-Dichloropropene
 Concen: 4.004 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064994.D
 Acq: 9 Dec 2020 2:15

Tgt Ion: 75 Resp: 11714
 Ion Ratio Lower Upper
 75 100
 110 4.8 17.8 53.3#
 77 0.0 25.0 37.4#



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





#37

Ethyl Acetate

Concen: 0.574 ug/l

RT: 6.81 min Scan# 1576

Delta R.T. -0.08 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

Instrument :

MSVOA_N

ClientSampled :

4S2-A-TOP

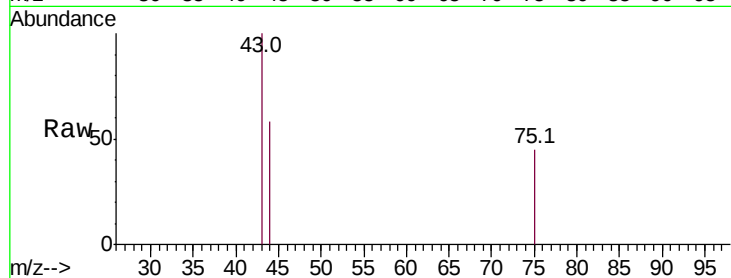
Tot Ion: 43 Resp: 1619

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): VN064994.D (-1576) (-)

Ion 60.90 (60.60 to 61.60): VN064994.D (-1576) (-)

Ion 70.00 (69.70 to 70.70): VN064994.D (-1576) (-)

6.81

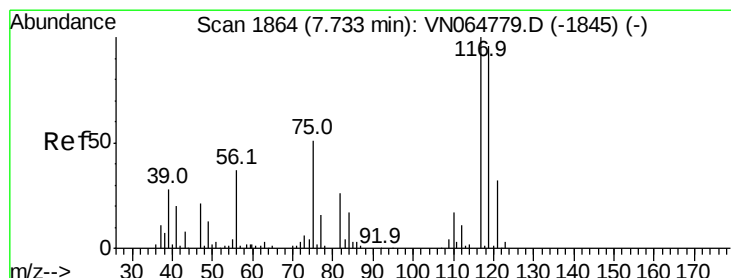
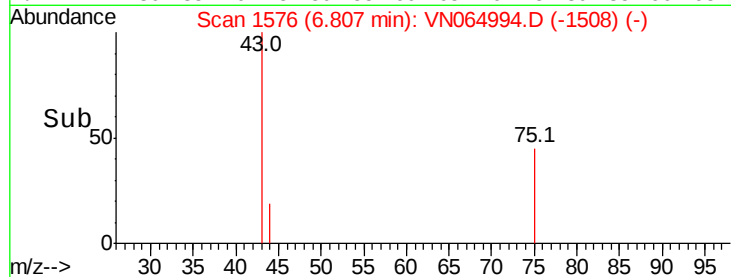
400

200

0

6.75 6.80 6.85

Time-->



#38

Carbon Tetrachloride

Concen: 5.152 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

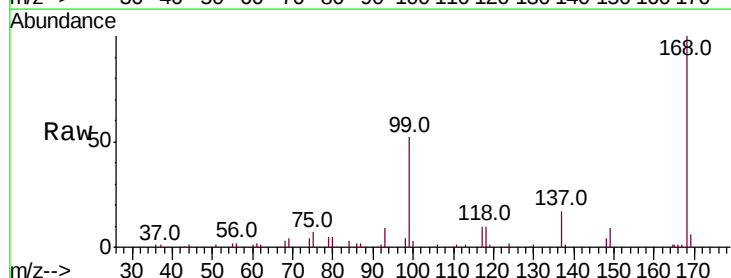
Tgt Ion: 117 Resp: 15683

Ion Ratio Lower Upper

117 100

119 5.9 76.7 115.1#

121 0.0 25.4 38.2#



Abundance Ion 116.80 (116.50 to 117.50): VN064994.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN064994.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN064994.D (-1831) (-)

7.63

8000

6000

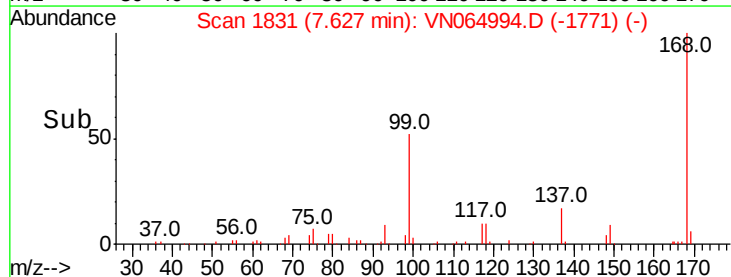
4000

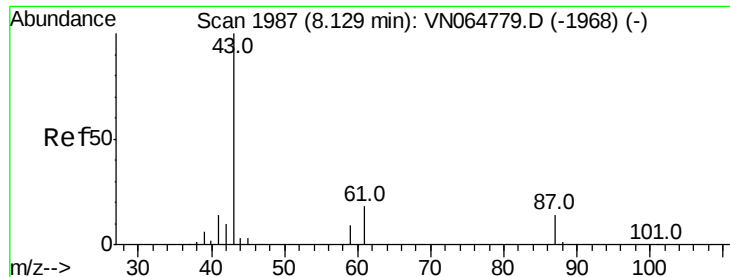
2000

0

7.55 7.60 7.65 7.70

Time-->





#43

Isopropyl Acetate

Concen: 3.392 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

Instrument :

MSVOA_N

ClientSampled :

4S2-A-TOP

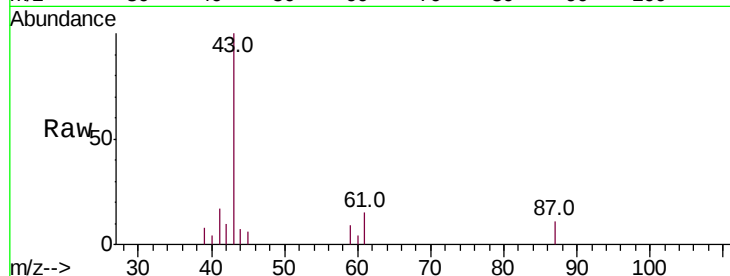
Tot Ion: 43 Resp: 15381

Ion Ratio Lower Upper

43 100

61 17.0 17.2 25.8#

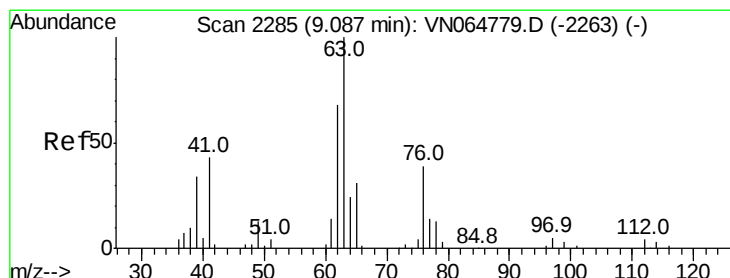
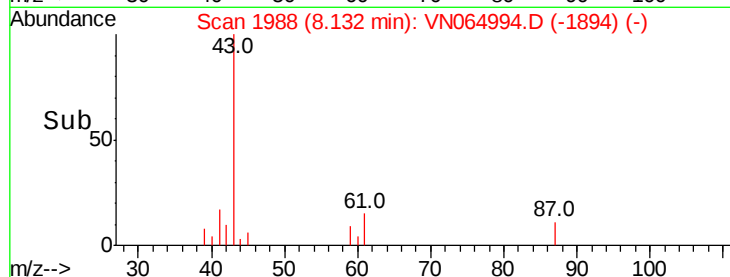
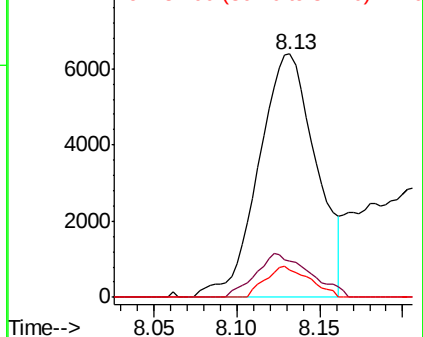
87 9.7 11.4 17.0#



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: 0.406 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN064994.D

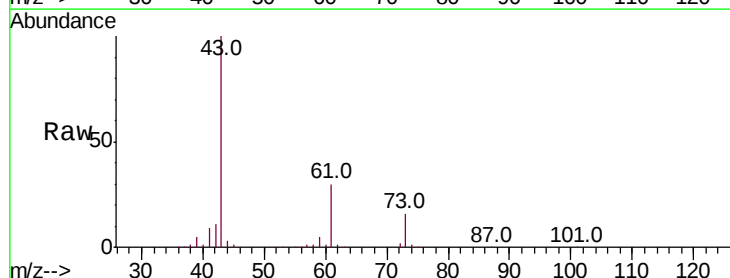
Acq: 9 Dec 2020 2:15

Tgt Ion: 63 Resp: 943

Ion Ratio Lower Upper

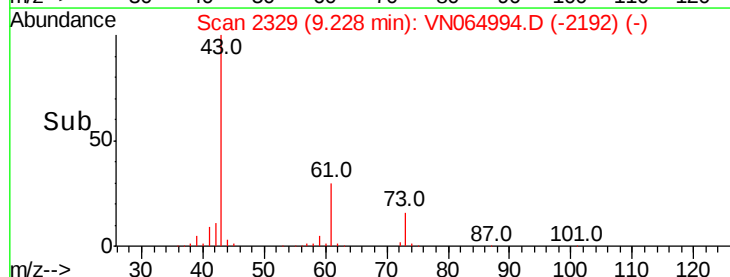
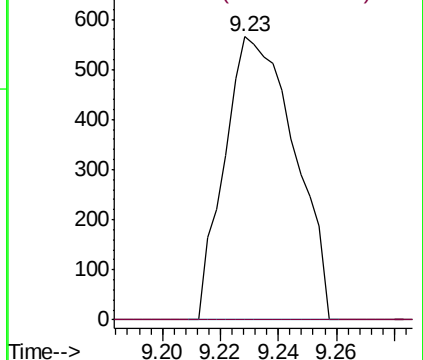
63 100

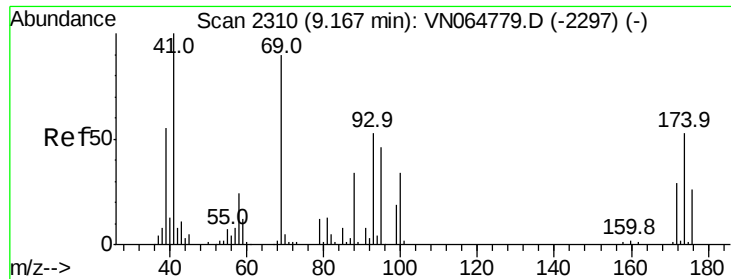
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

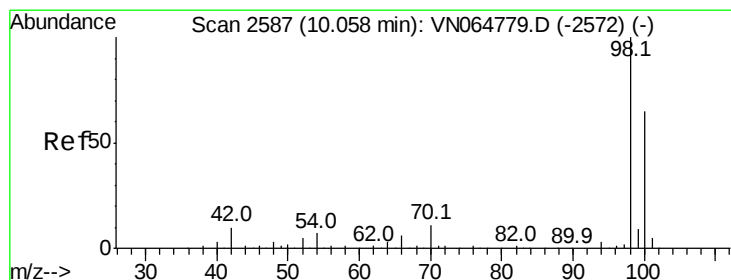
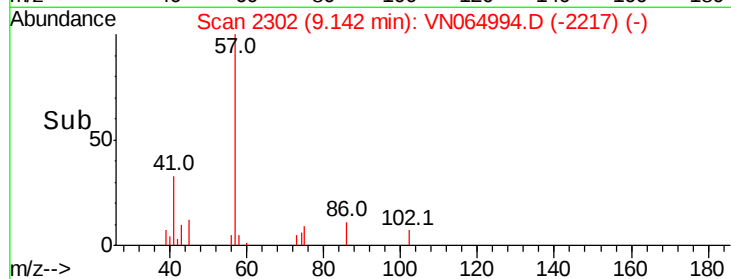
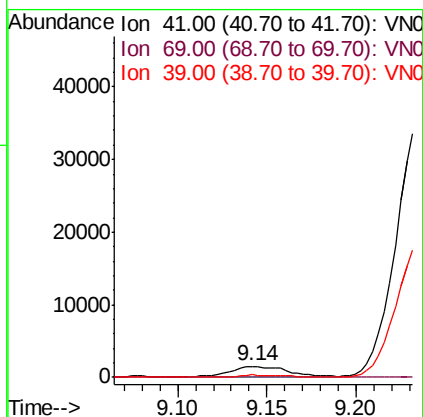
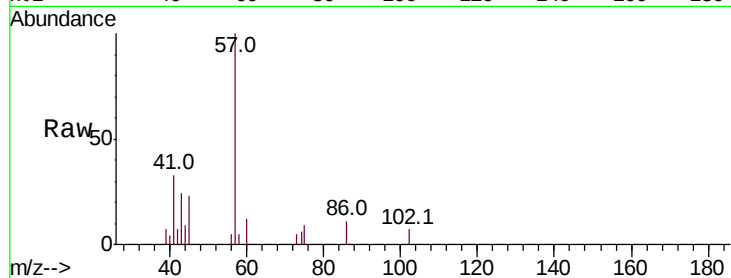




#48
Methvl methacrylate
Concen: 1.593 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN064994.D
Acq: 9 Dec 2020 2:15

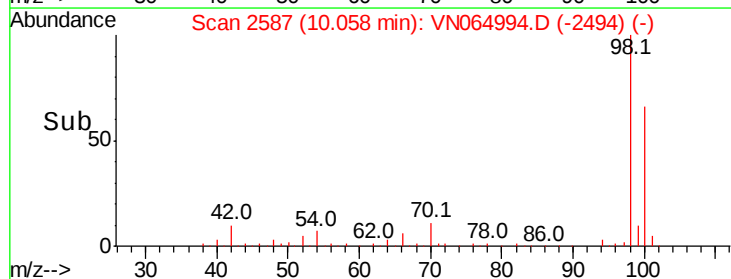
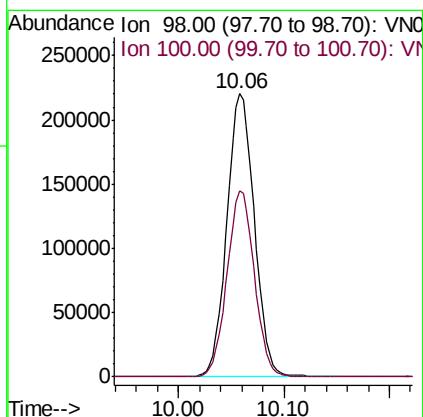
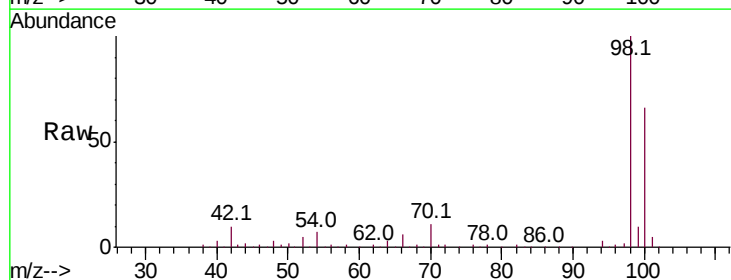
Instrument :
MSVOA_N
ClientSampled :
4S2-A-TOP

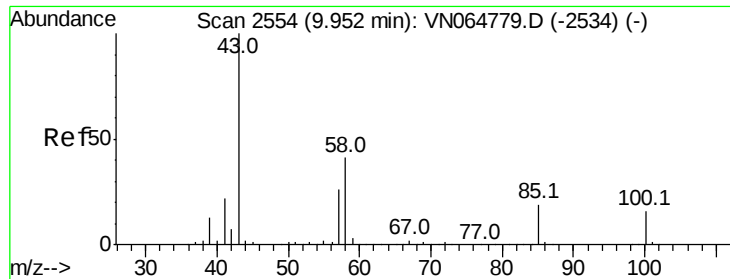
Tot Ion: 41 Resp: 3452
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#



#50
Toluene-d8
Concen: 51.456 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064994.D
Acq: 9 Dec 2020 2:15

Tgt Ion: 98 Resp: 397091
Ion Ratio Lower Upper
98 100
100 65.5 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.201 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

Instrument :

MSVOA_N

ClientSampled :

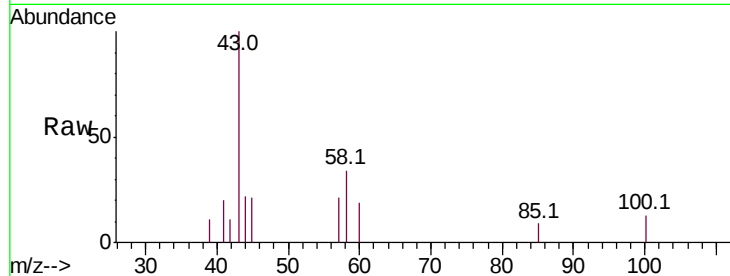
4S2-A-TOP

Tot Ion: 43 Resp: 3271

Ion Ratio Lower Upper

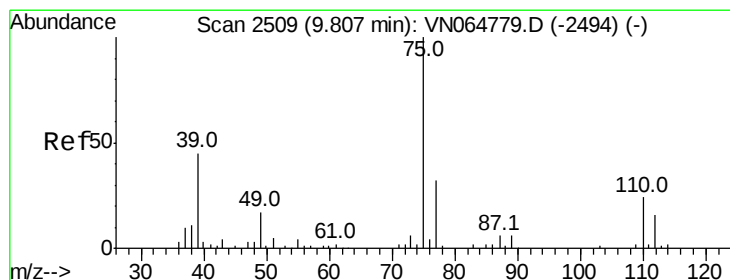
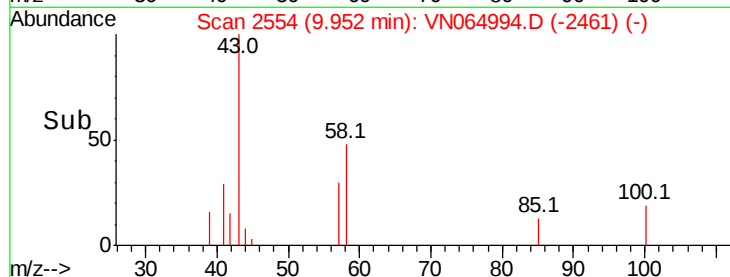
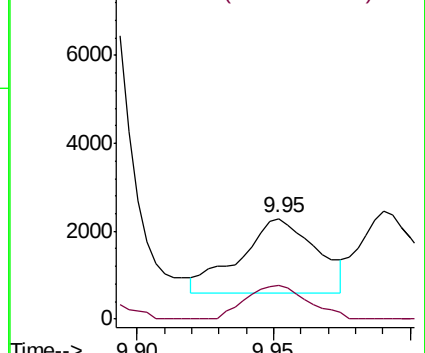
43 100

58 37.1 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) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.410 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

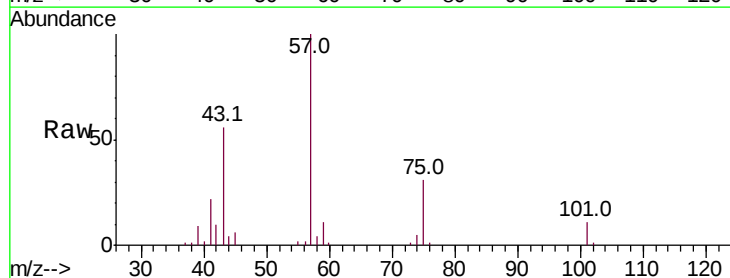
Tgt Ion: 75 Resp: 23883

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

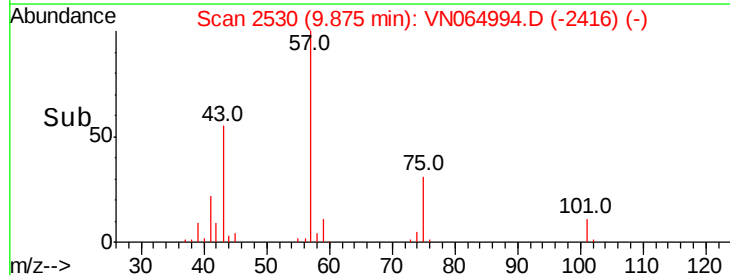
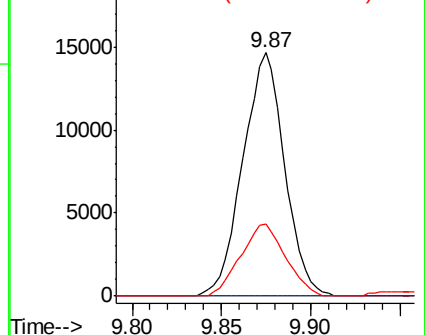
39 29.6 35.6 53.4#

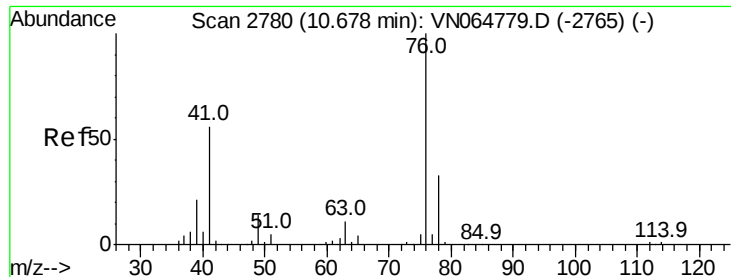


Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-2494) (-)

Ion 76.90 (76.60 to 77.60): VN064779.D (-2494) (-)

Ion 39.00 (38.70 to 39.70): VN064779.D (-2494) (-)





#57

1,3-Dichloropropane

Concen: 3.766 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

Instrument :

MSVOA_N

ClientSampled :

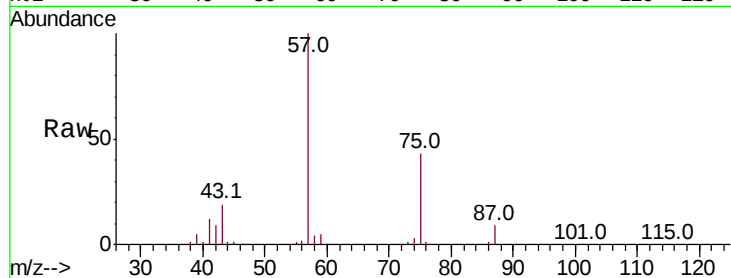
4S2-A-TOP

Tot Ion: 76 Resp: 14105

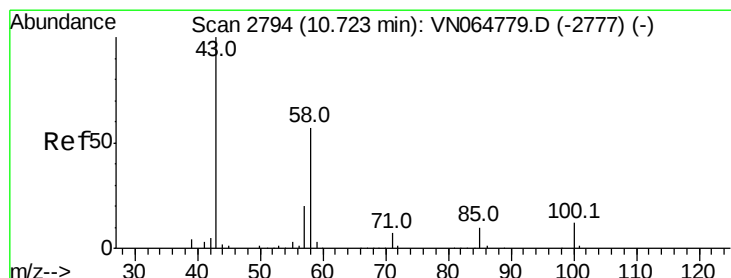
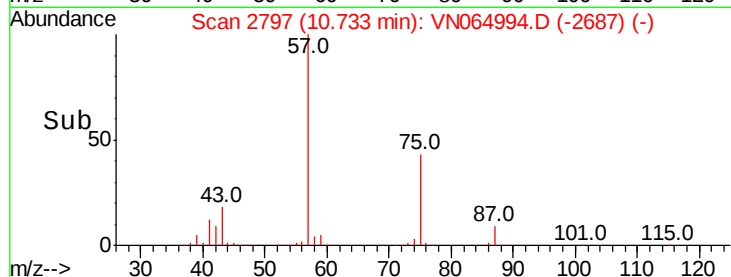
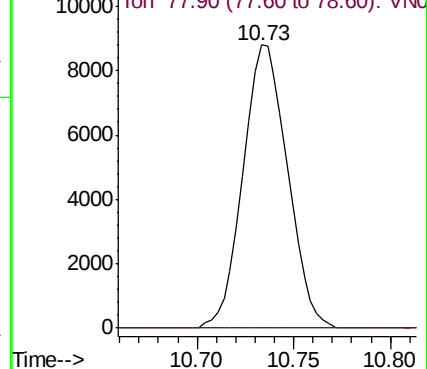
Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



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



#59

2-Hexanone

Concen: 92.946 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064994.D

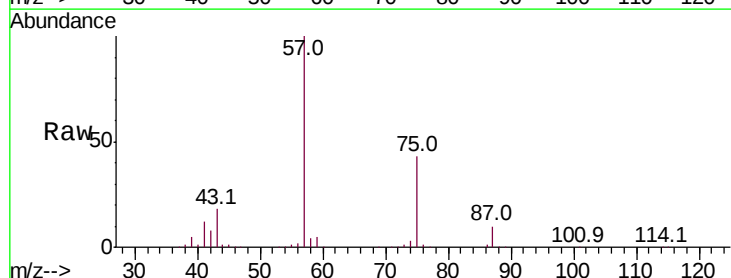
Acq: 9 Dec 2020 2:15

Tgt Ion: 43 Resp: 182114

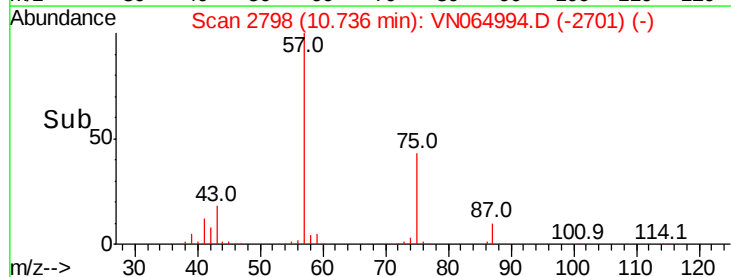
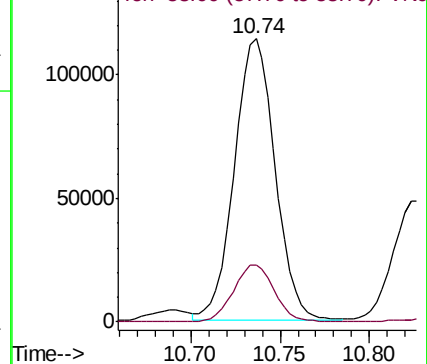
Ion Ratio Lower Upper

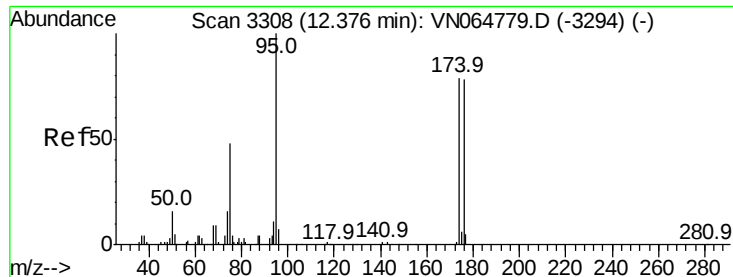
43 100

58 20.1 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN064994.D (-2701) (-)

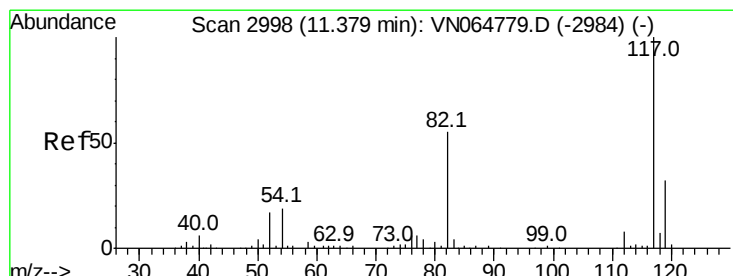
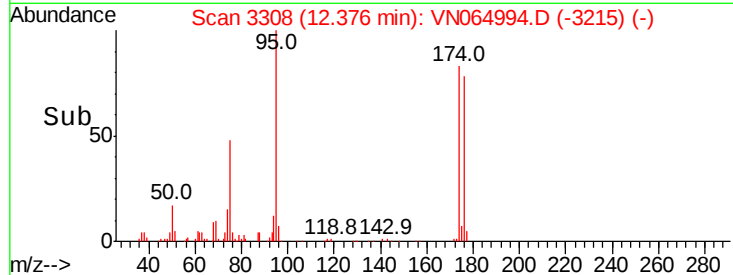
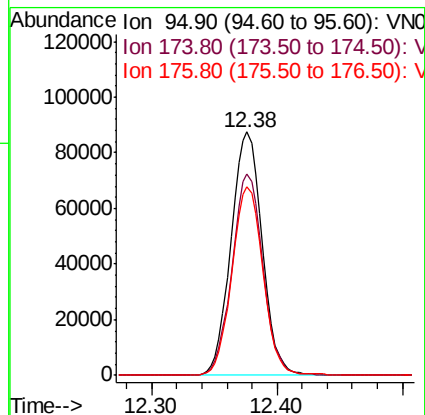
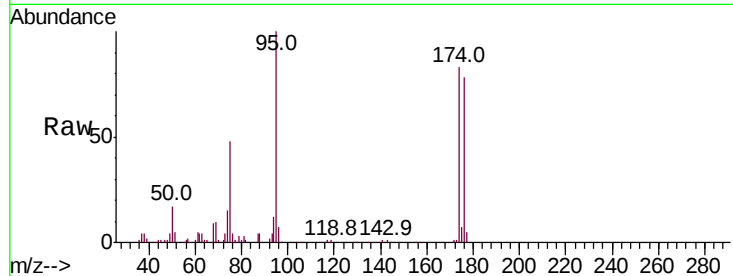




#62
4-Bromofluorobenzene
Concen: 54.633 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064994.D
Acq: 9 Dec 2020 2:15

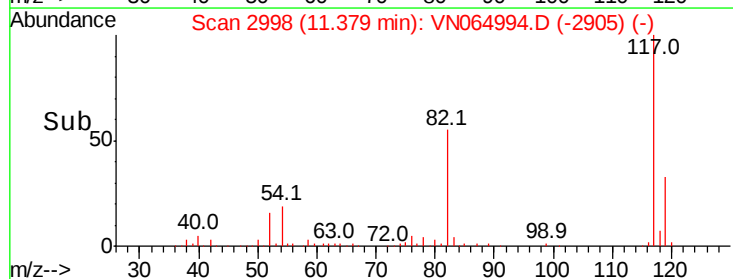
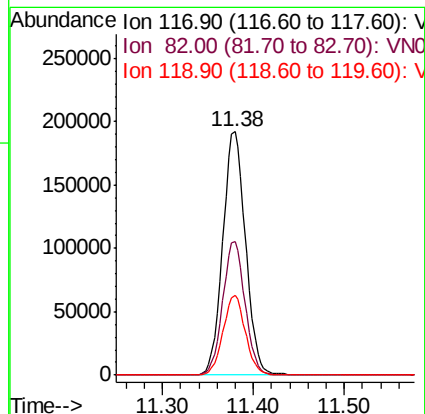
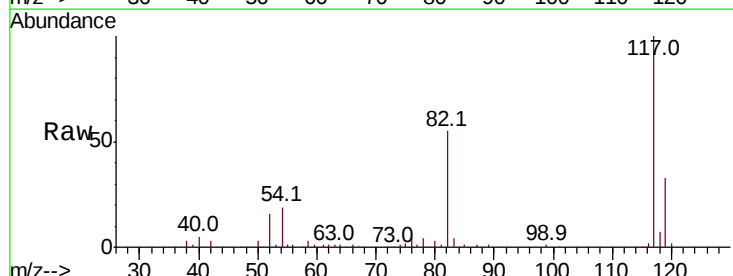
Instrument :
MSVOA_N
ClientSampleId :
4S2-A-TOP

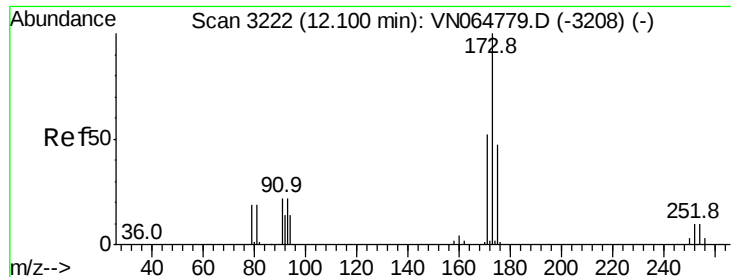
Tot Ion	95	Resp	150886
Ion Ratio	Lower	Upper	
95	100		
174	82.1	0.0	160.4
176	77.5	0.0	158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064994.D
Acq: 9 Dec 2020 2:15

Tgt Ion	117	Resp	335189
Ion Ratio	Lower	Upper	
117	100		
82	54.7	44.2	66.2
119	32.9	25.8	38.6

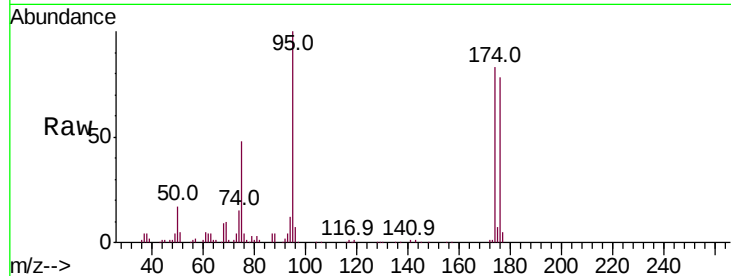




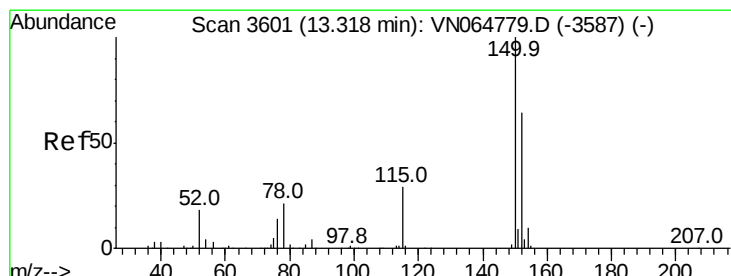
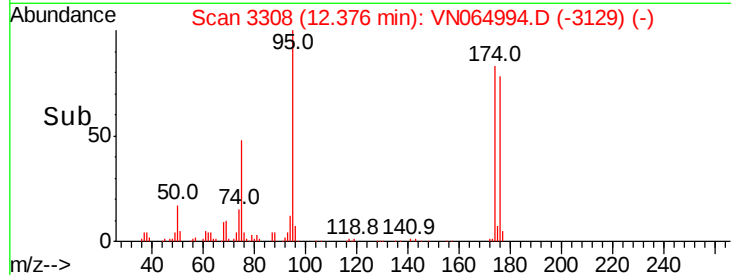
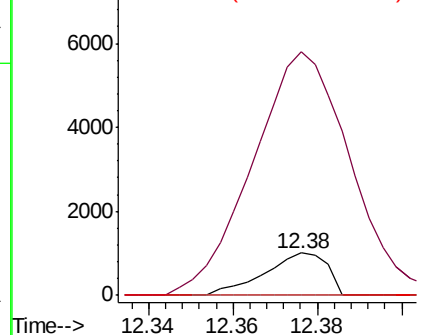
#71
Bromoform
Concen: 0.492 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN064994.D
Acq: 9 Dec 2020 2:15

Instrument :
MSVOA_N
ClientSampled :
4S2-A-TOP

Tot Ion:173 Resp: 1039
Ion Ratio Lower Upper
173 100
175 761.7 24.3 72.8#
254 0.0 0.0 0.0

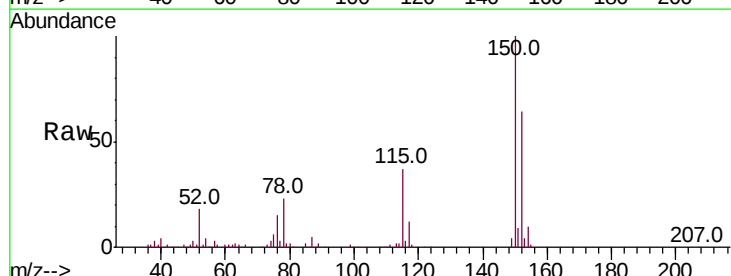


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

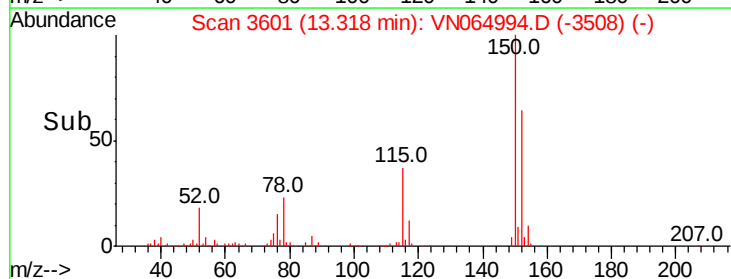
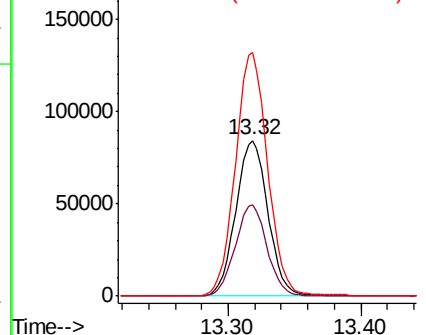


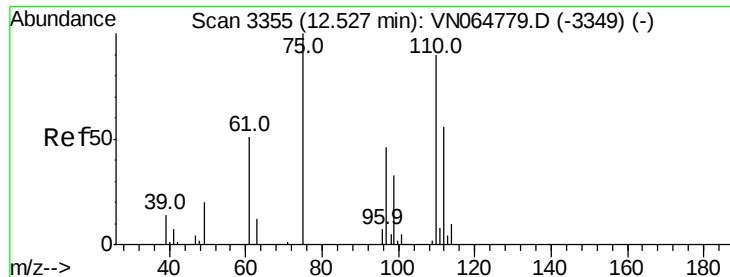
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064994.D
Acq: 9 Dec 2020 2:15

Tgt Ion:152 Resp: 142175
Ion Ratio Lower Upper
152 100
115 58.2 29.7 89.1
150 156.2 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: 23.398 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

Instrument :

MSVOA_N

ClientSampleId :

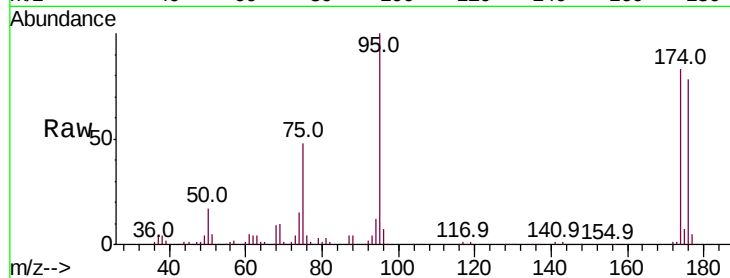
4S2-A-TOP

Tot Ion: 75 Resp: 71641

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN064779.D (-3349) (-)

12.38

40000

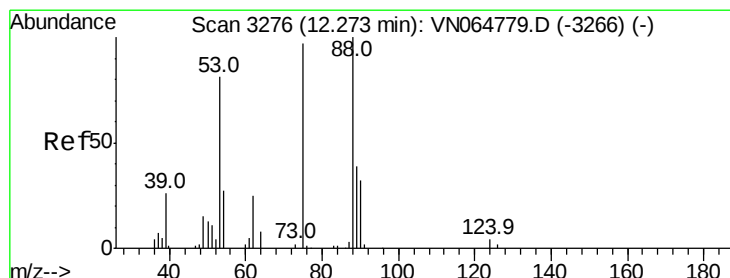
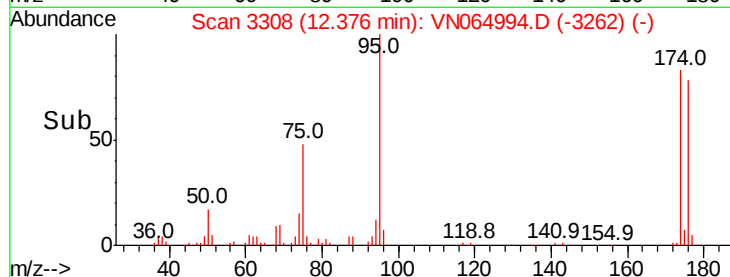
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 64.128 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064994.D

Acq: 9 Dec 2020 2:15

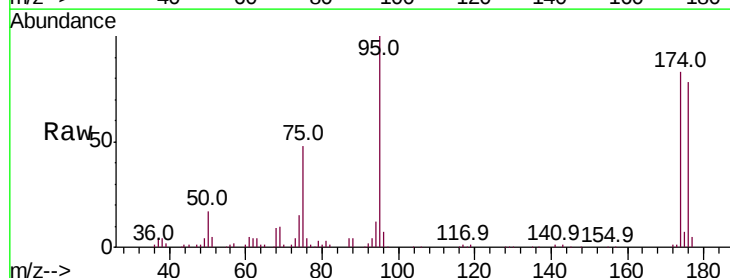
Tgt Ion: 75 Resp: 71641

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): VN064779.D (-3266) (-)

Ion 53.00 (52.70 to 53.70): VN064779.D (-3266) (-)

Ion 88.90 (88.60 to 89.60): VN064779.D (-3266) (-)

12.38

40000

30000

20000

10000

0

Time-->

