

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064980.D
 Acq On : 8 Dec 2020 19:26
 Operator : JC/MD
 Sample : PB133456ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#17

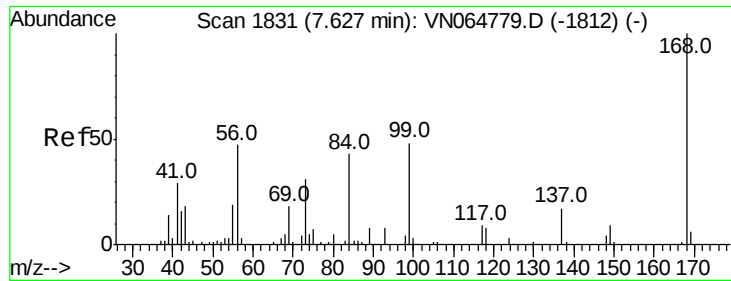
Quant Time: Dec 09 06:54:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	162711	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	320879	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	334178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139748	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	106214	56.15	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	112.30%	
35) Dibromofluoromethane		7.55	113	98280	51.19	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	102.38%	
50) Toluene-d8		10.06	98	397178	50.63	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	101.26%	
62) 4-Bromofluorobenzene		12.37	95	149319	53.18	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	106.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	61	0.207	ug/l #	73
16) Acetone	3.78	43	5715	9.191	ug/l	95
18) Methyl Acetate	4.29	43	1146	0.613	ug/l #	50
20) Methylene Chloride	4.51	84	5202	2.670	ug/l	96
25) 2-Butanone	6.80	43	2899	2.876	ug/l	95
29) Tetrahydrofuran	7.16	42	408	0.586	ug/l #	67
31) Cyclohexane	7.62	56	2693	1.021	ug/l #	19
36) 1,1-Dichloropropene	7.62	75	11195	3.764	ug/l #	48
37) Ethyl Acetate	6.80	43	2899	1.012	ug/l #	66
38) Carbon Tetrachloride	7.63	117	15723	5.081	ug/l #	15
43) Isopropyl Acetate	8.13	43	17554	3.808	ug/l	96
45) 1,2-Dichloropropane	9.23	63	1040	0.441	ug/l #	43
48) Methyl methacrylate	9.14	41	4159	1.888	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3863	1.396	ug/l #	61
52) Toluene	10.13	92	1675	0.298	ug/l	83
54) cis-1,3-Dichloropropene	9.87	75	30147	7.959	ug/l #	61
57) 1,3-Dichloropropane	10.73	76	17835	4.684	ug/l #	42
59) 2-Hexanone	10.74	43	231230	116.088	ug/l #	51
71) Bromoform	12.37	173	939	0.446	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	69737	23.172	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	2142	0.265	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.37	75	69737	63.508	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: VN064980.D

Acq: 8 Dec 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

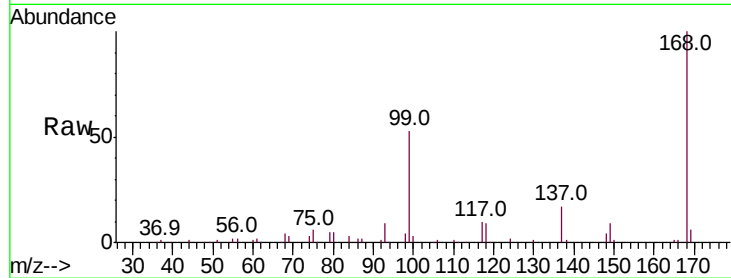
PB133456ZHE#17

Tot Ion:168 Resp: 162711

Ion Ratio Lower Upper

168 100

99 53.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

60000

40000

20000

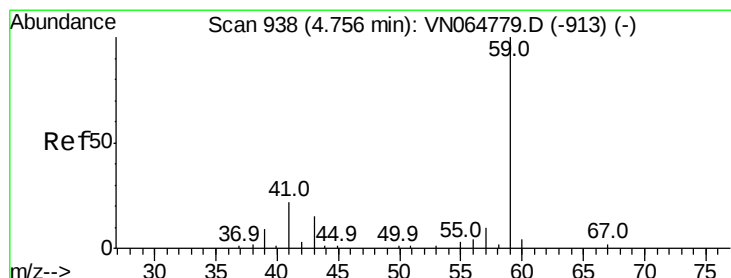
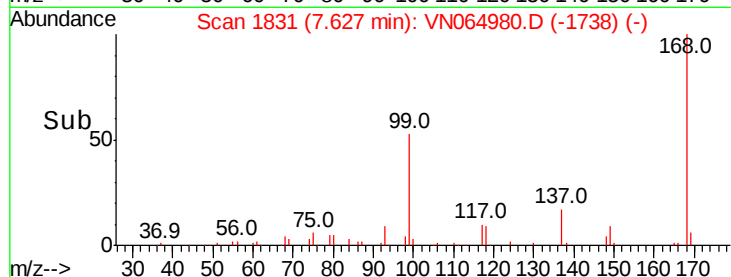
0

Time-->

7.50

7.60

7.70



#11

Tert butyl alcohol

Concen: 0.207 ug/l

RT: 4.73 min Scan# 930

Delta R.T. -0.03 min

Lab File: VN064980.D

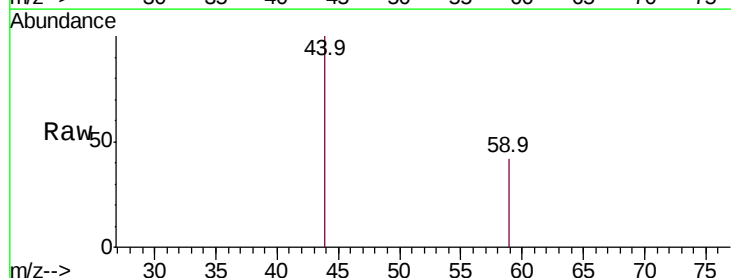
Acq: 8 Dec 2020 19:26

Tgt Ion: 59 Resp: 61

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

150

100

50

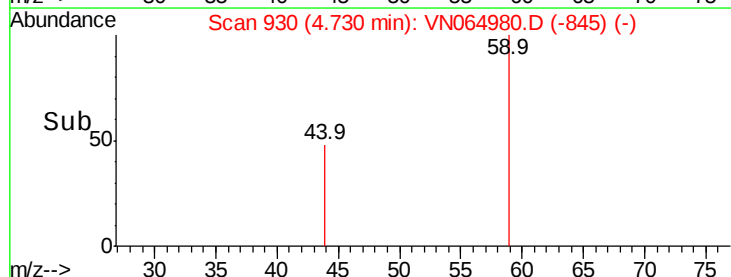
0

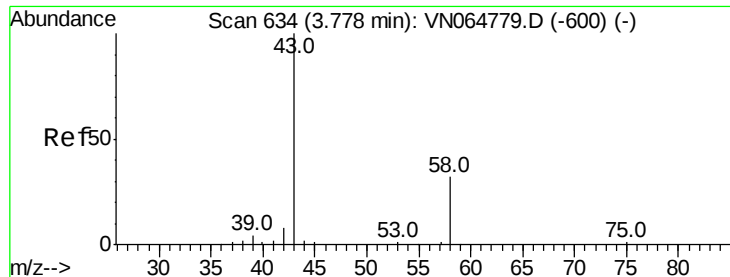
Time-->

4.72

4.73

4.74





#16

Acetone

Concen: 9.191 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064980.D

Acq: 8 Dec 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

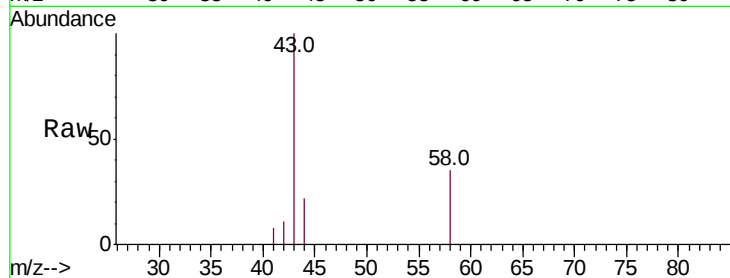
PB133456ZHE#17

Tot Ion: 43 Resp: 5715

Ion Ratio Lower Upper

43 100

58 35.0 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064980.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN064980.D (-541) (-)

2500

2000

1500

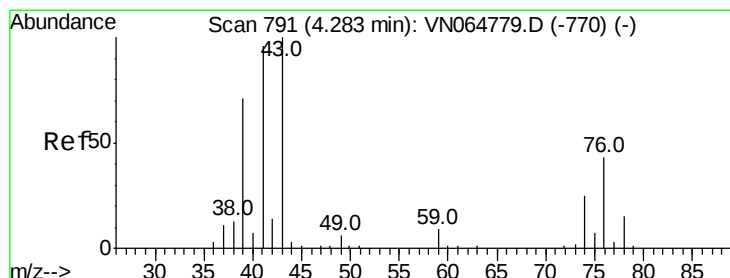
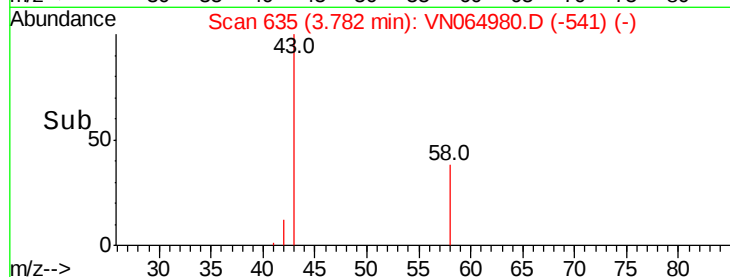
1000

500

0

3.70 3.75 3.80 3.85

Time-->



#18

Methyl Acetate

Concen: 0.613 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN064980.D

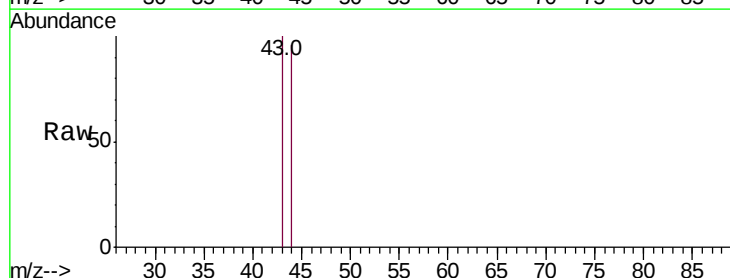
Acq: 8 Dec 2020 19:26

Tgt Ion: 43 Resp: 1146

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN064980.D (-698) (-)

Ion 74.00 (73.70 to 74.70): VN064980.D (-698) (-)

500

400

300

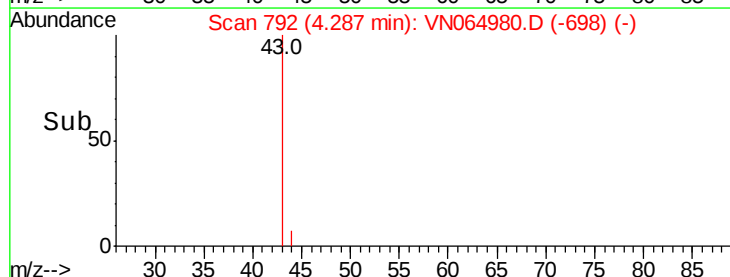
200

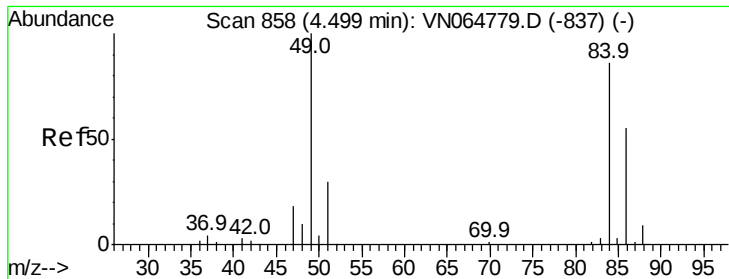
100

0

4.25 4.30

Time-->



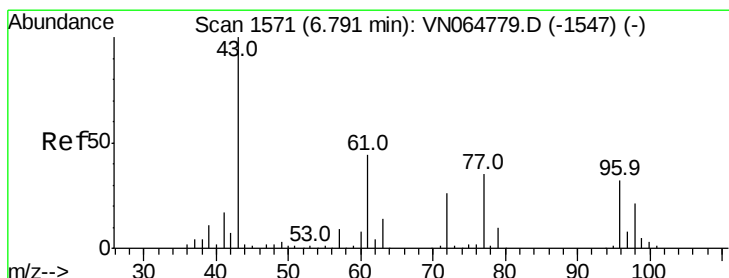
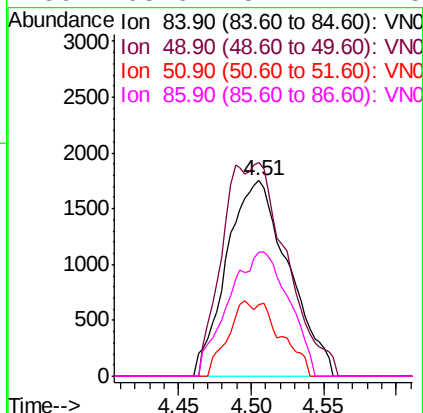
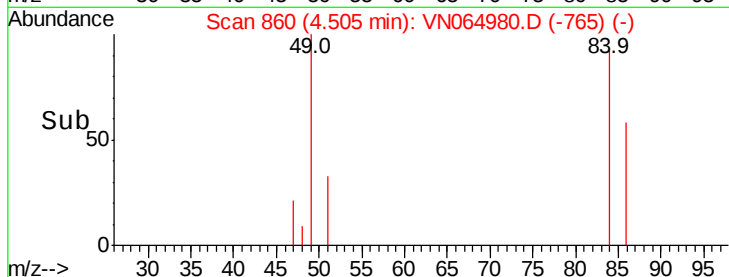
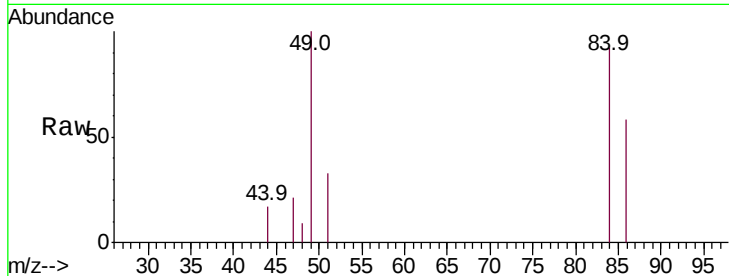


#20
Methvlene Chloride
Concen: 2.670 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN064980.D
Acq: 8 Dec 2020 19:26

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#17

Tot Ion: 84 Resp: 5202

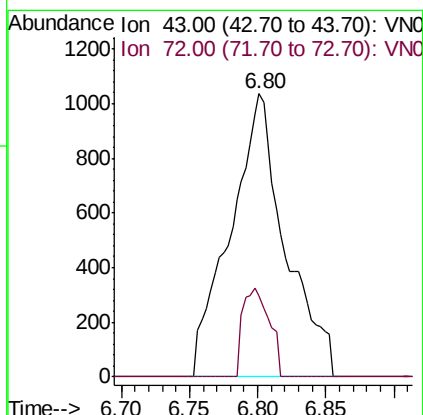
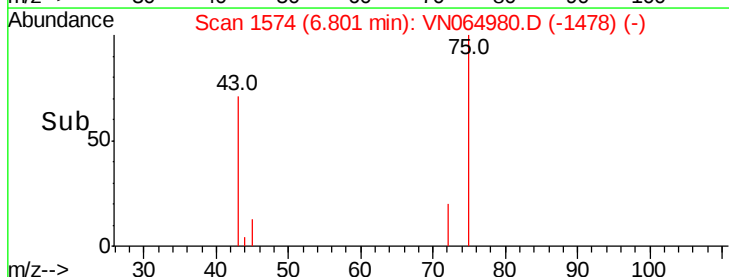
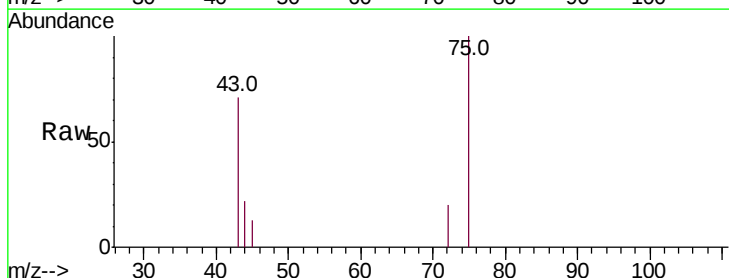
Ion	Ratio	Lower	Upper
84	100		
49	109.1	93.4	140.0
51	36.5	28.2	42.4
86	63.6	51.7	77.5

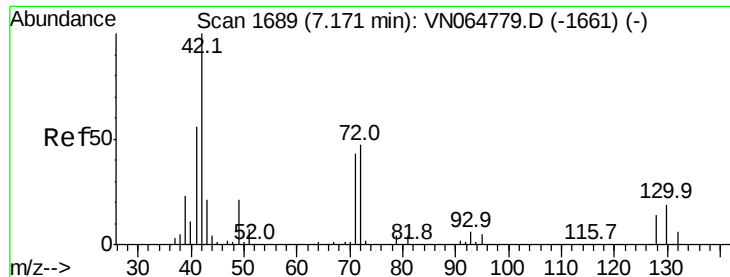


#25
2-Butanone
Concen: 2.876 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VN064980.D
Acq: 8 Dec 2020 19:26

Tgt Ion: 43 Resp: 2899

Ion	Ratio	Lower	Upper
43	100		
72	28.9	21.0	31.6





#29

Tetrahydrofuran

Concen: 0.586 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. -0.01 min

Lab File: VN064980.D

Acq: 8 Dec 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#17

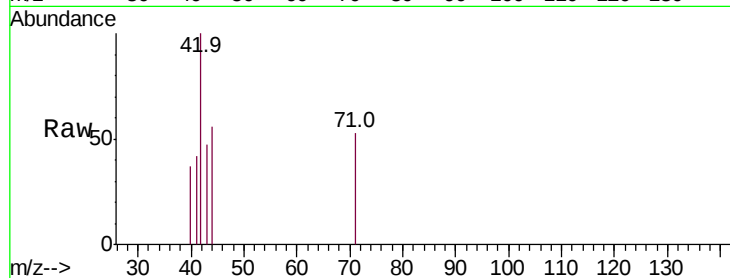
Tot Ion: 42 Resp: 408

Ion Ratio Lower Upper

42 100

72 7.4 36.6 54.8#

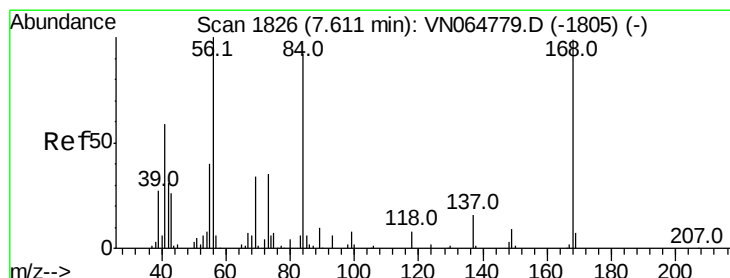
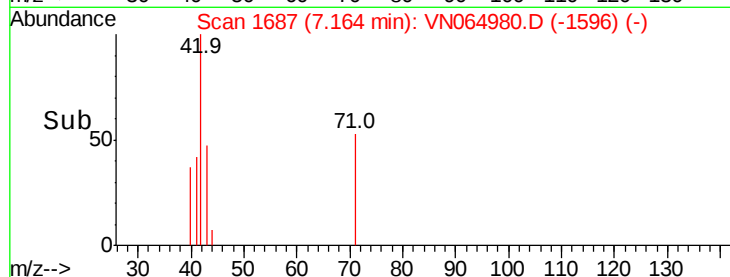
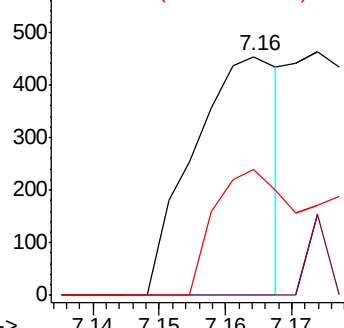
71 46.1 33.6 50.4



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: 1.021 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064980.D

Acq: 8 Dec 2020 19:26

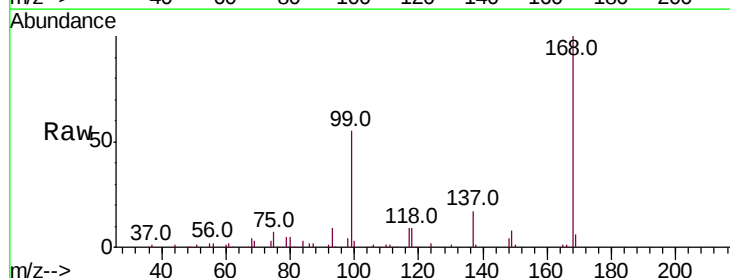
Tgt Ion: 56 Resp: 2693

Ion Ratio Lower Upper

56 100

69 143.3 27.5 41.3#

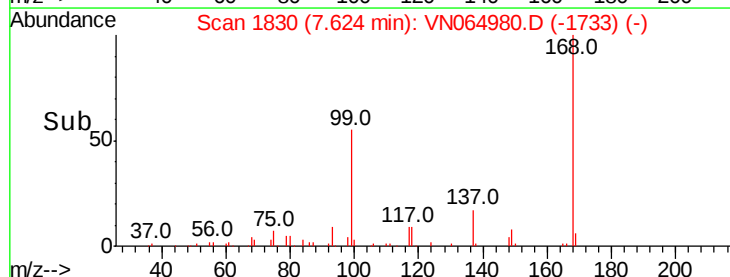
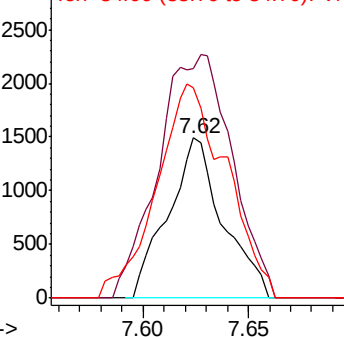
84 131.2 73.9 110.9#

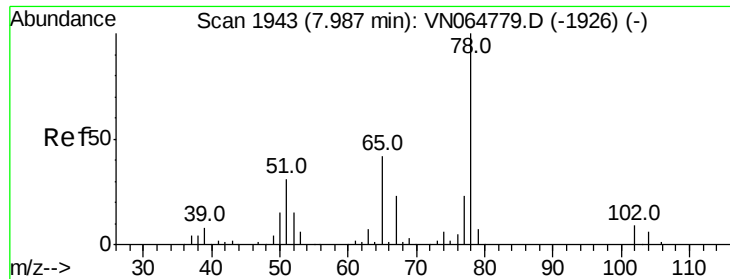


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

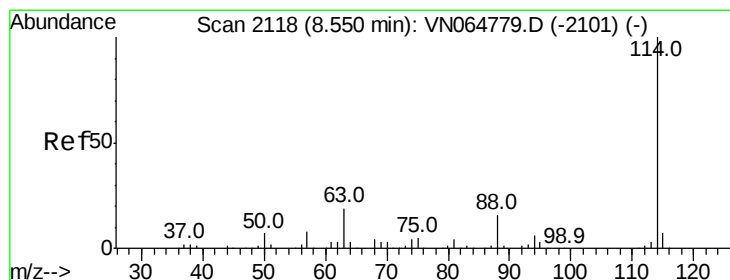
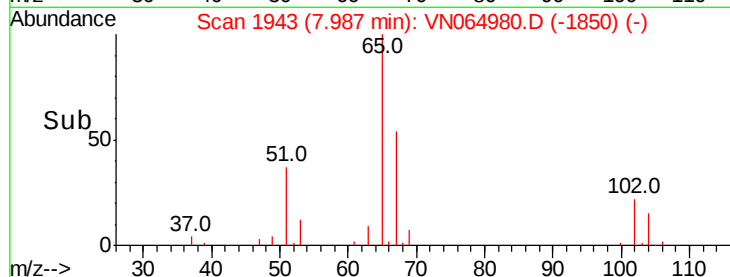
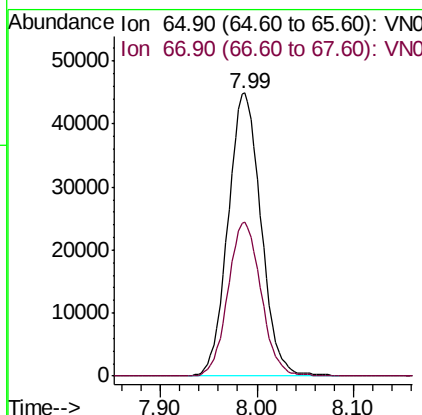
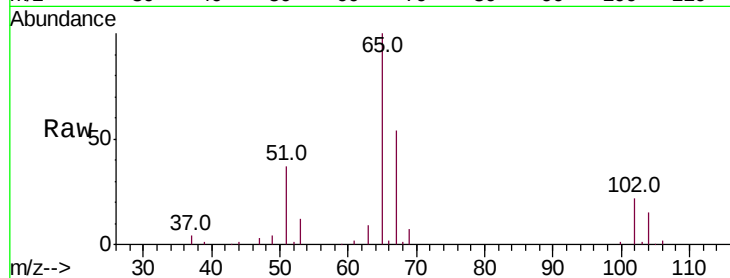




#33
 1,2-Dichloroethane-d4
 Concen: 56.150 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064980.D
 Acq: 8 Dec 2020 19:26

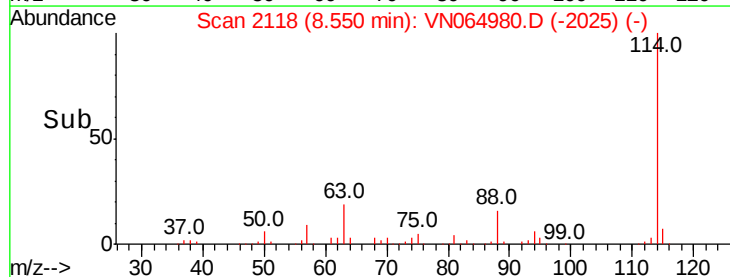
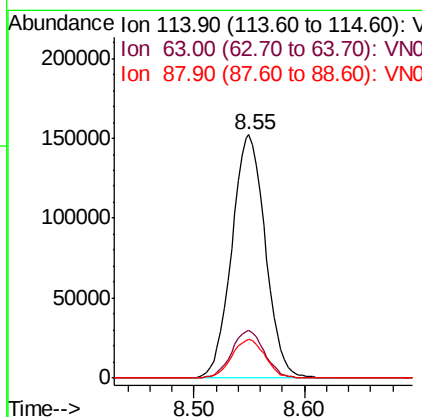
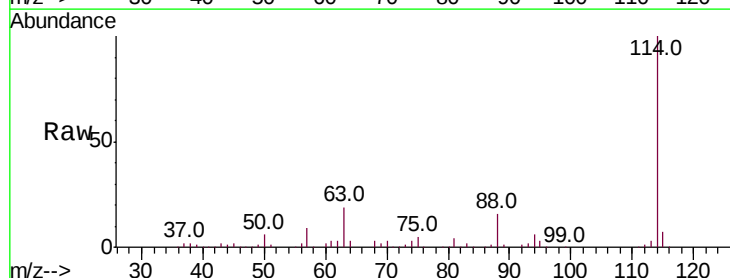
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#17

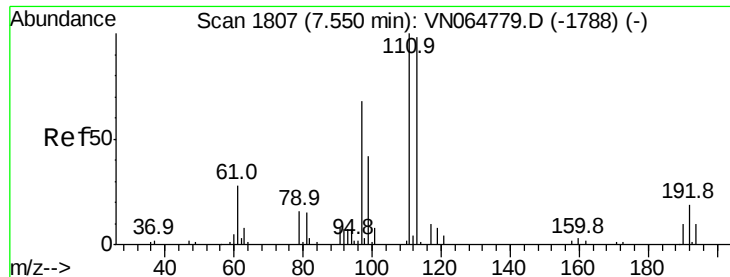
Tot Ion: 65 Resp: 106214
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064980.D
 Acq: 8 Dec 2020 19:26

Tgt Ion: 114 Resp: 320879
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 38.6
 88 16.0 0.0 32.6

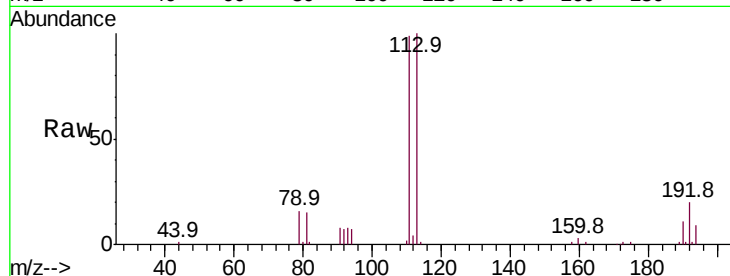




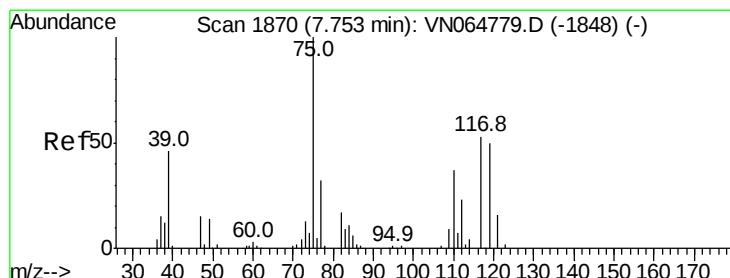
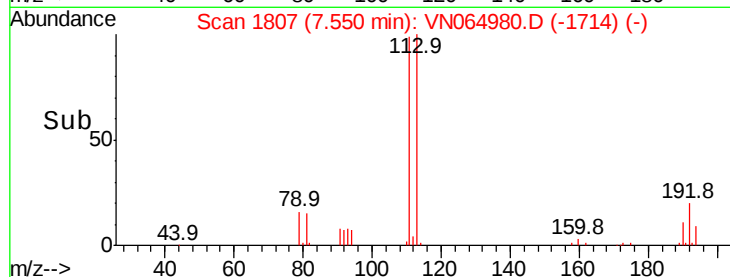
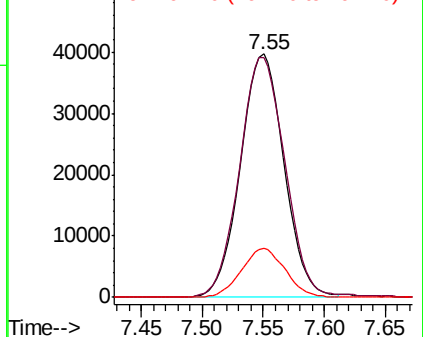
#35
 Dibromofluoromethane
 Concen: 51.187 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064980.D
 Acq: 8 Dec 2020 19:26

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#17

Tot Ion:113 Resp: 98280
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.6 122.4
 192 20.2 16.2 24.2

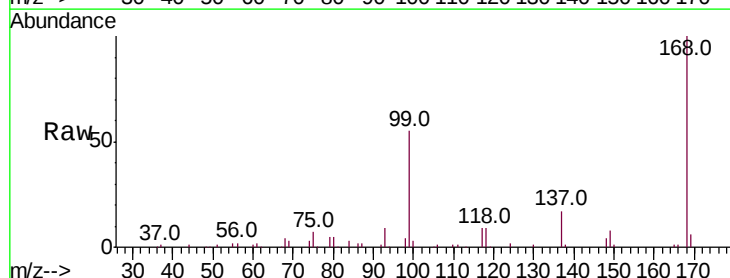


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

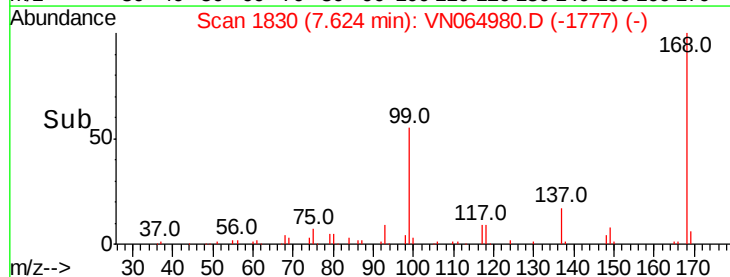
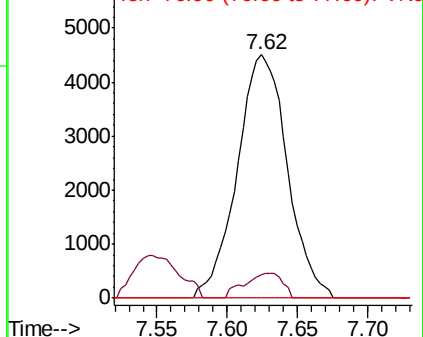


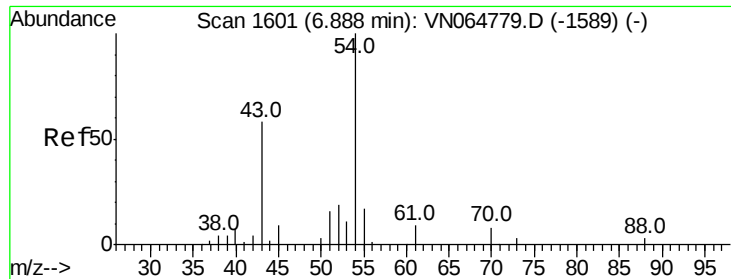
#36
 1,1-Dichloropropene
 Concen: 3.764 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064980.D
 Acq: 8 Dec 2020 19:26

Tgt Ion: 75 Resp: 11195
 Ion Ratio Lower Upper
 75 100
 110 7.8 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

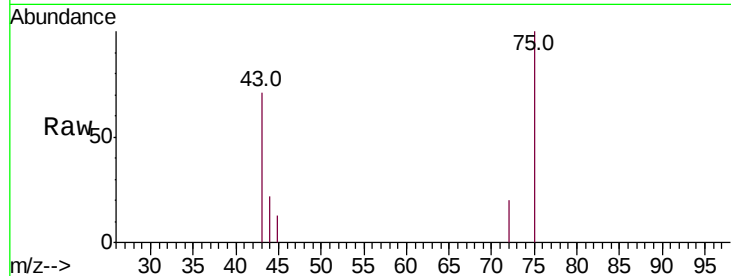




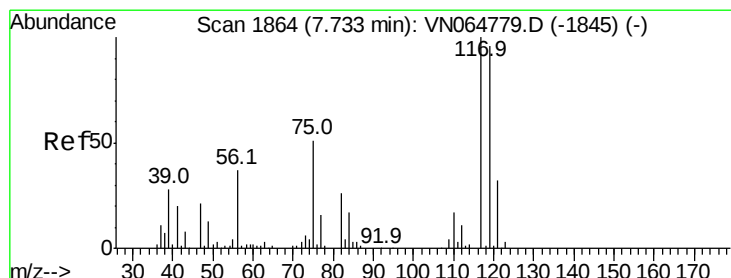
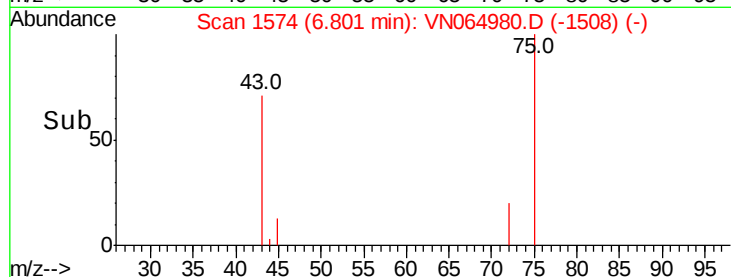
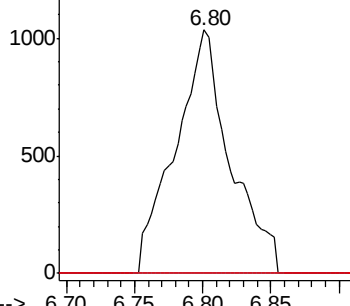
#37
Ethyl Acetate
Concen: 1.012 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. -0.09 min
Lab File: VN064980.D
Acq: 8 Dec 2020 19:26

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#17

Tot Ion: 43 Resp: 2899
Ion Ratio Lower Upper
43 100
61 0.0 12.8 19.2#
70 0.0 8.8 13.2#

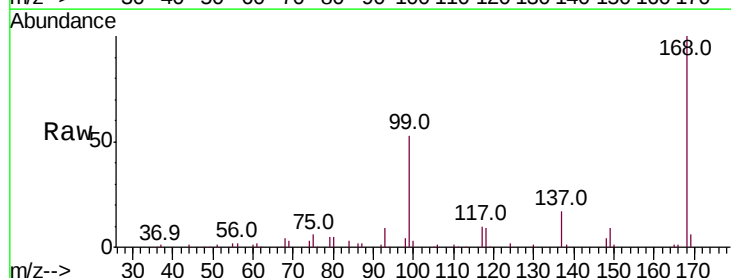


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

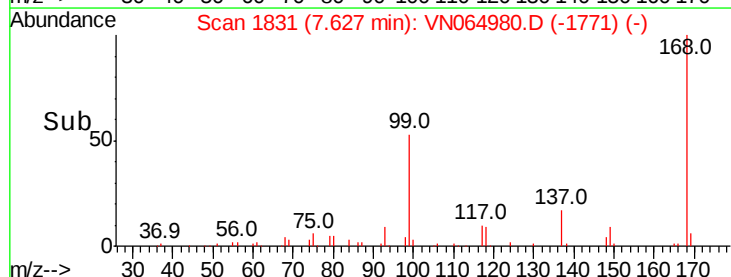
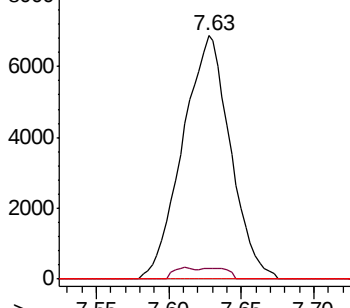


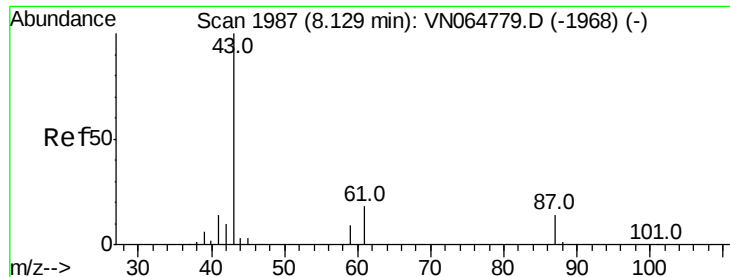
#38
Carbon Tetrachloride
Concen: 5.081 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064980.D
Acq: 8 Dec 2020 19:26

Tgt Ion: 117 Resp: 15723
Ion Ratio Lower Upper
117 100
119 4.4 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: 3.808 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064980.D

Acq: 8 Dec 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#17

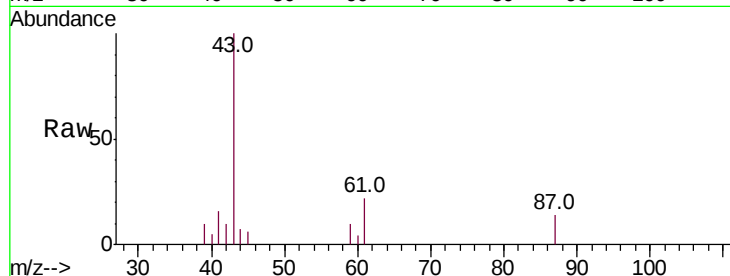
Tot Ion: 43 Resp: 17554

Ion Ratio Lower Upper

43 100

61 19.6 17.2 25.8

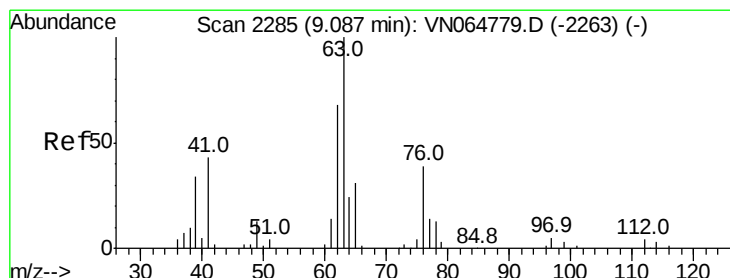
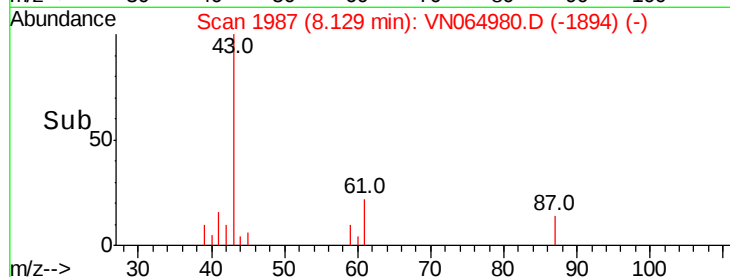
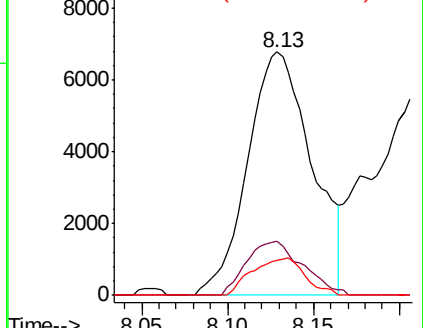
87 12.5 11.4 17.0



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: 0.441 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN064980.D

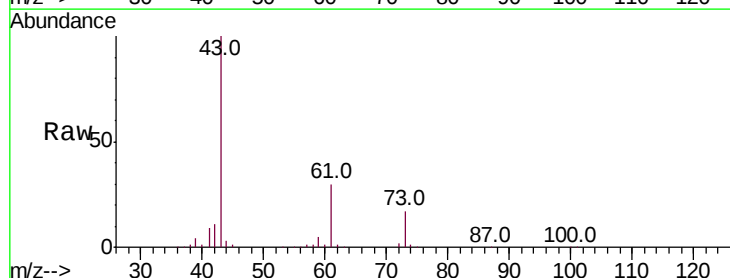
Acq: 8 Dec 2020 19:26

Tgt Ion: 63 Resp: 1040

Ion Ratio Lower Upper

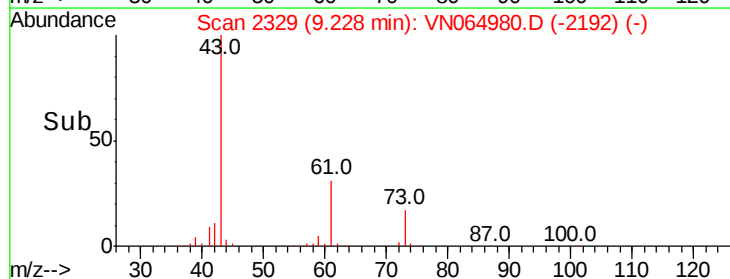
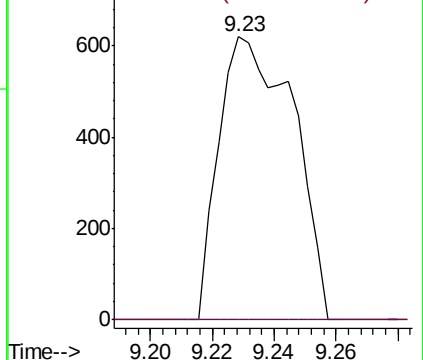
63 100

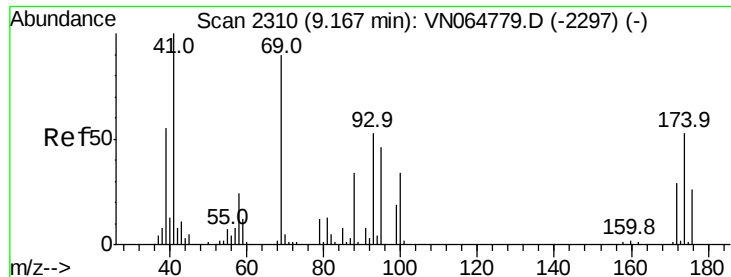
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

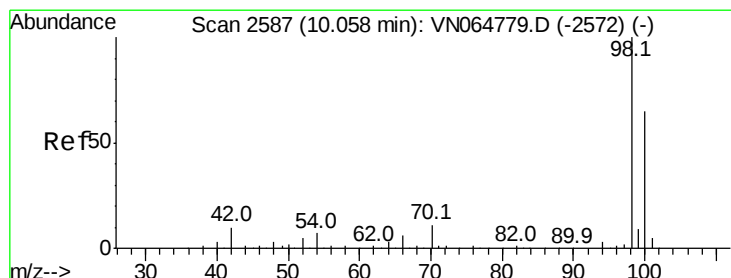
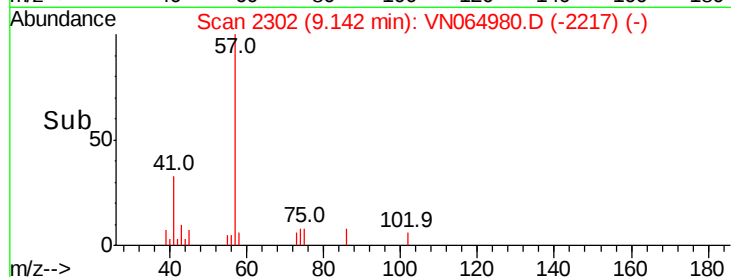
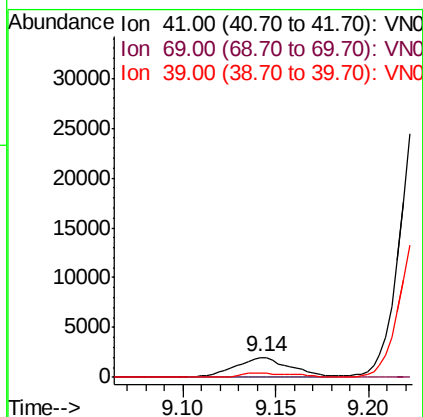
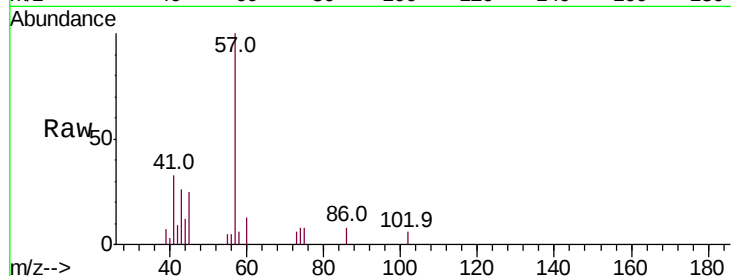




#48
Methvl methacrylate
Concen: 1.888 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN064980.D
Acq: 8 Dec 2020 19:26

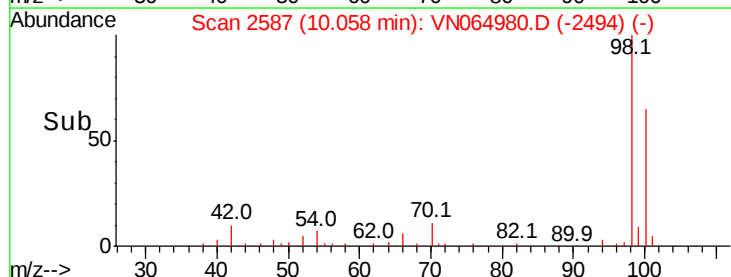
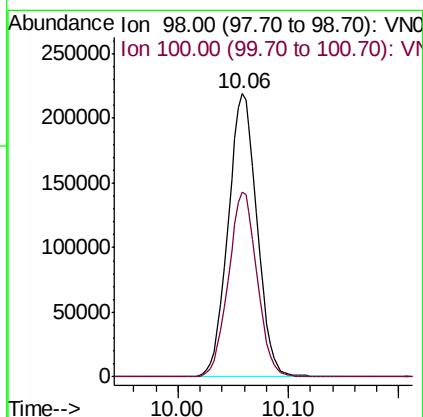
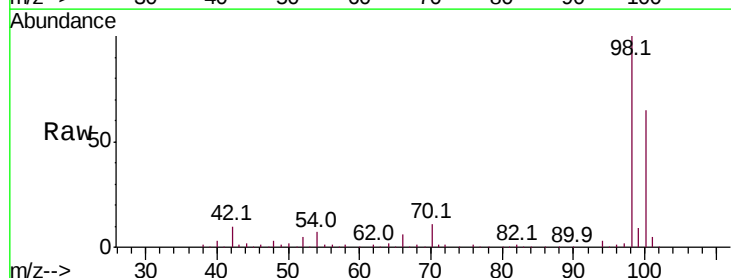
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#17

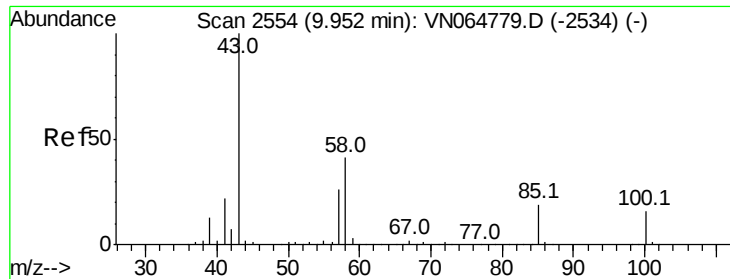
Tot Ion: 41 Resp: 4159
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#



#50
Toluene-d8
Concen: 50.627 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064980.D
Acq: 8 Dec 2020 19:26

Tgt Ion: 98 Resp: 397178
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.396 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064980.D

Acq: 8 Dec 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

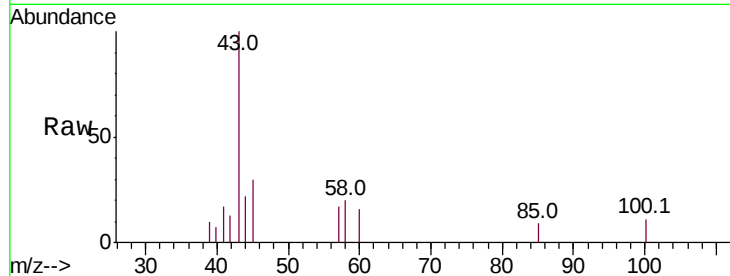
PB133456ZHE#17

Tot Ion: 43 Resp: 3863

Ion Ratio Lower Upper

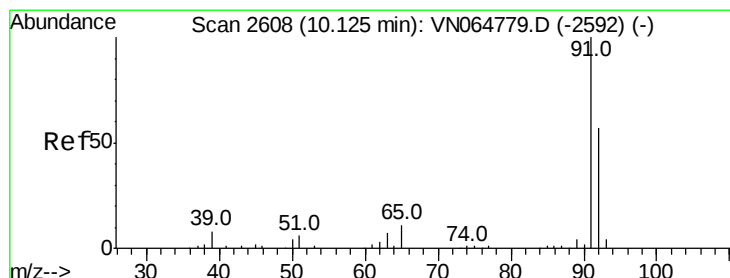
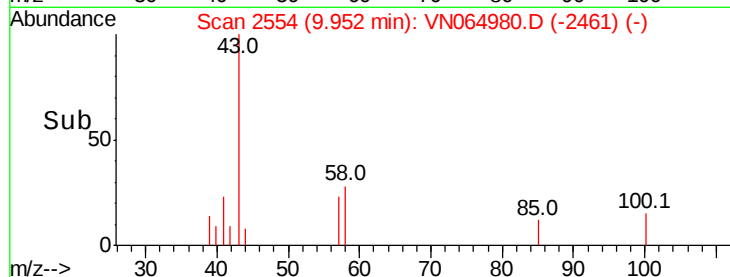
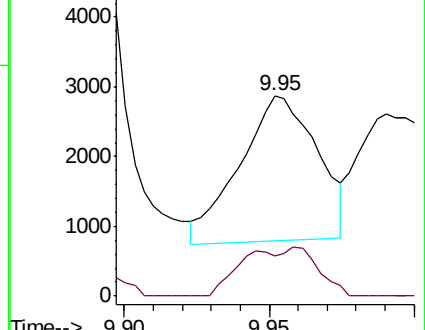
43 100

58 16.6 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) (-)



#52

Toluene

Concen: 0.298 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN064980.D

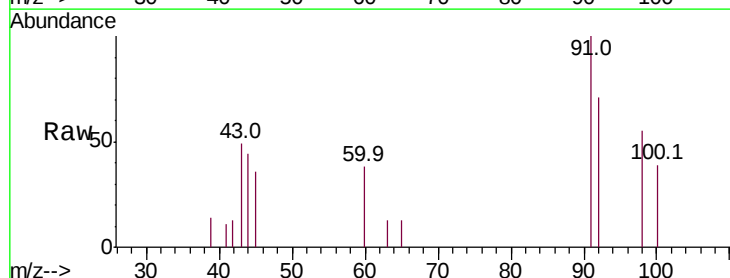
Acq: 8 Dec 2020 19:26

Tgt Ion: 92 Resp: 1675

Ion Ratio Lower Upper

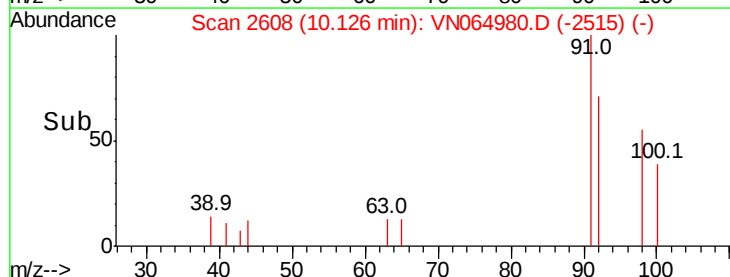
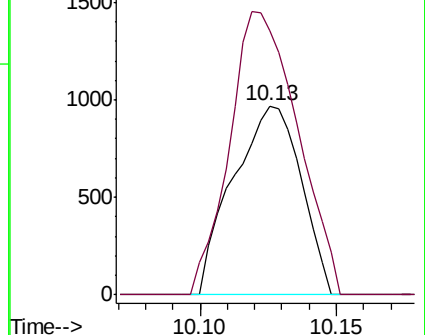
92 100

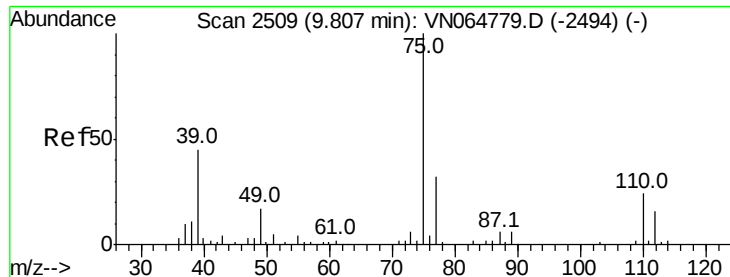
91 150.3 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN064779.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN064779.D (-2592) (-)





#54

cis-1,3-Dichloropropene

Concen: 7.959 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064980.D

Acq: 8 Dec 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#17

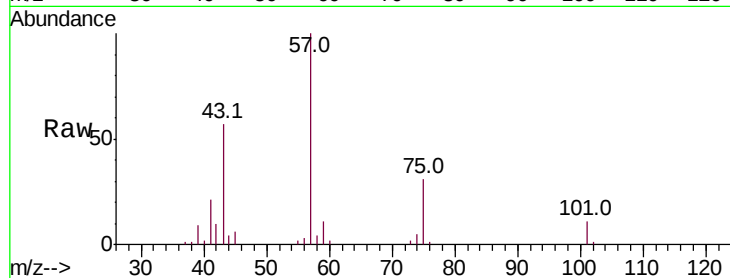
Tot Ion: 75 Resp: 30147

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

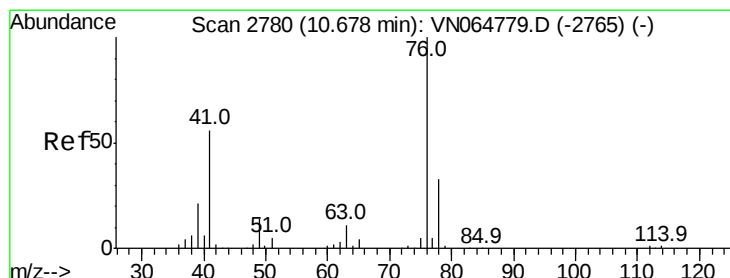
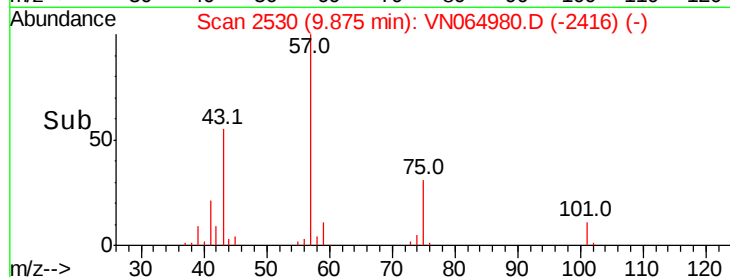
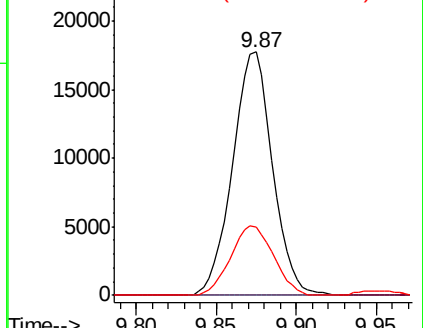
39 27.8 35.6 53.4#



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: 4.684 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064980.D

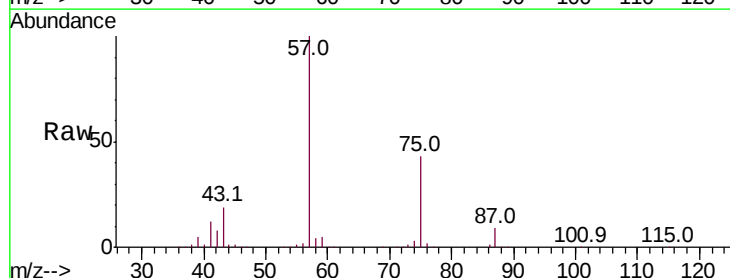
Acq: 8 Dec 2020 19:26

Tgt Ion: 76 Resp: 17835

Ion Ratio Lower Upper

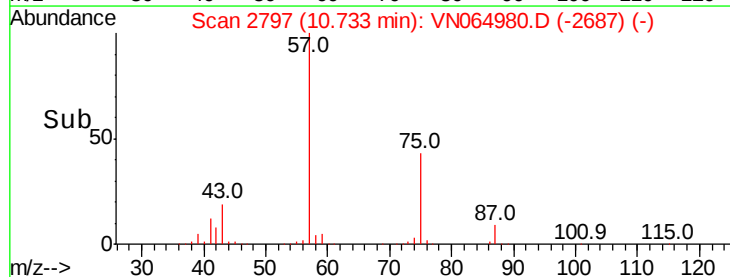
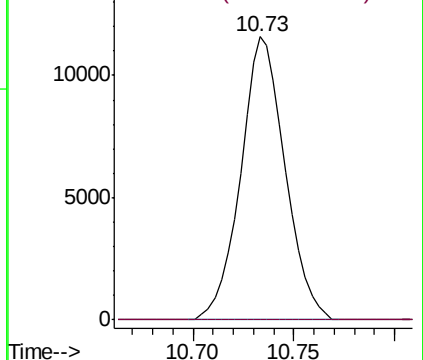
76 100

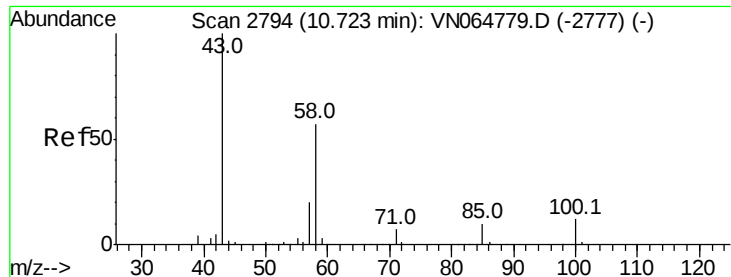
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 116.088 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064980.D

Acq: 8 Dec 2020 19:26

Instrument:

MSVOA_N

ClientSampleId:

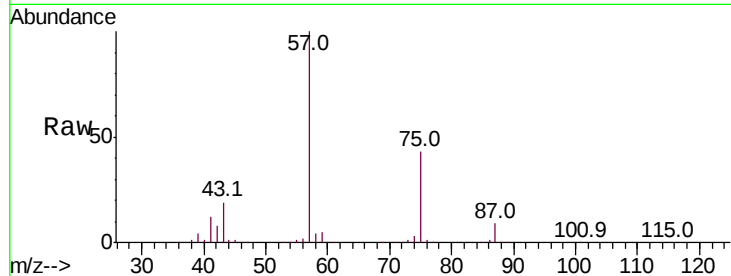
PB133456ZHE#17

Tot Ion: 43 Resp: 231230

Ion Ratio Lower Upper

43 100

58 20.6 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.74

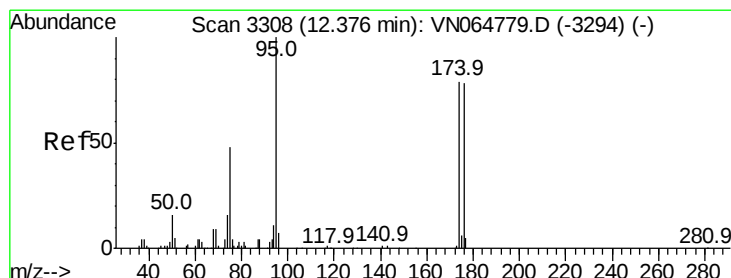
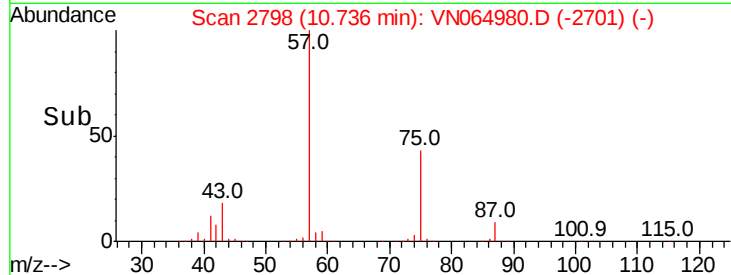
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.184 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064980.D

Acq: 8 Dec 2020 19:26

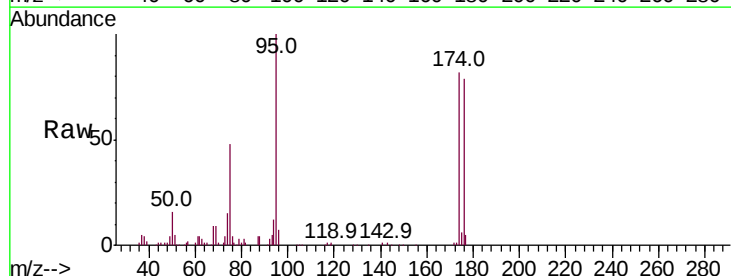
Tgt Ion: 95 Resp: 149319

Ion Ratio Lower Upper

95 100

174 83.1 0.0 160.4

176 79.2 0.0 158.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

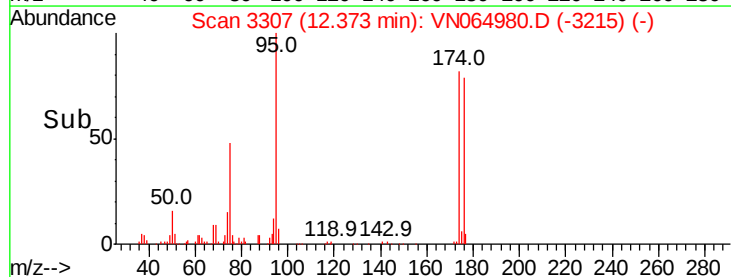
60000

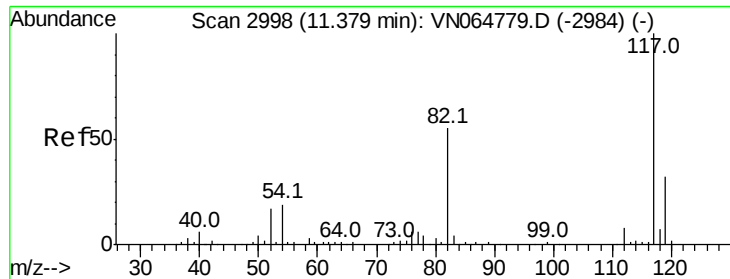
40000

20000

0

Time-->

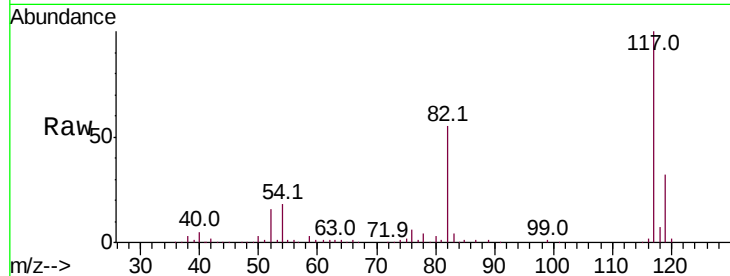




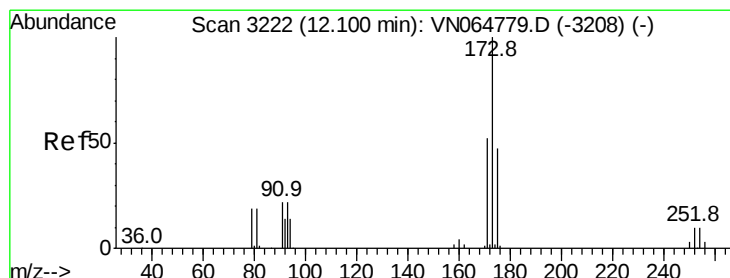
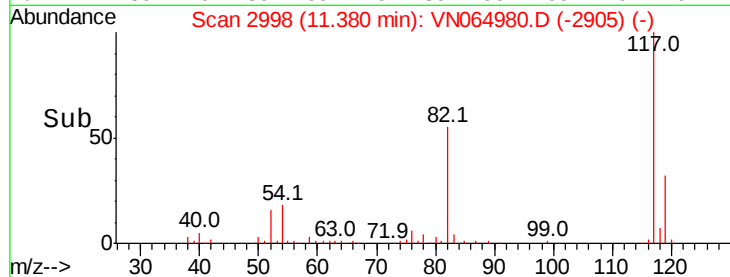
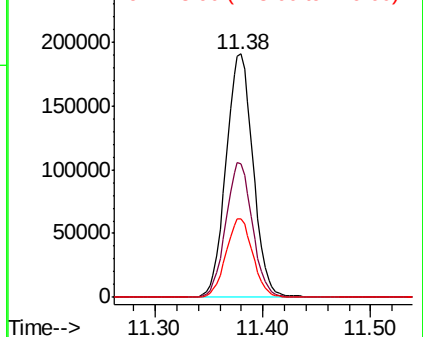
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064980.D
Acq: 8 Dec 2020 19:26

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#17

Tot Ion:117 Resp: 334178
Ion Ratio Lower Upper
117 100
82 54.7 44.2 66.2
119 32.3 25.8 38.6

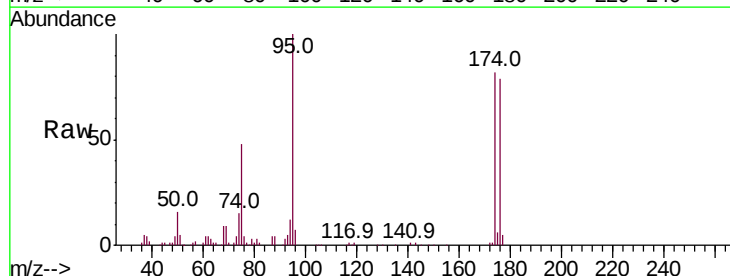


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

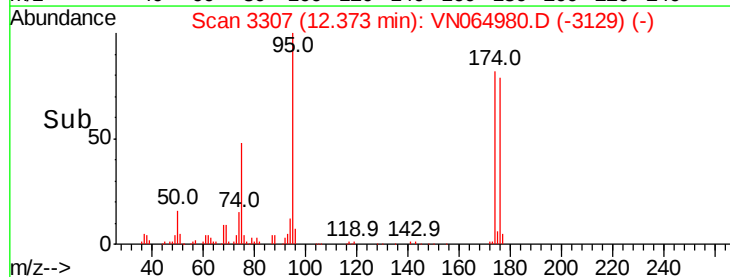
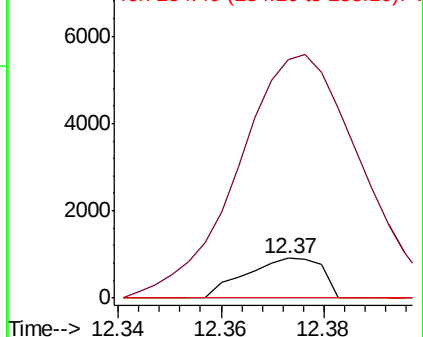


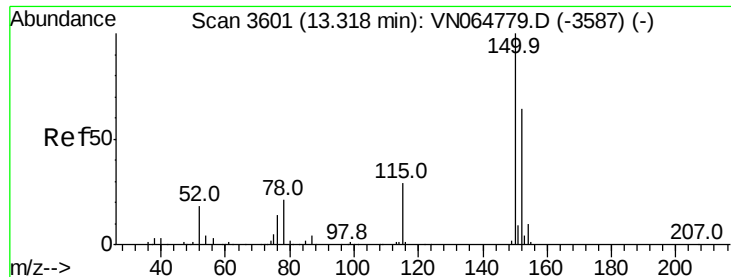
#71
Bromoform
Concen: 0.446 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN064980.D
Acq: 8 Dec 2020 19:26

Tgt Ion:173 Resp: 939
Ion Ratio Lower Upper
173 100
175 845.7 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# 3600

Delta R.T. -0.00 min

Lab File: VN064980.D

Acq: 8 Dec 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#17

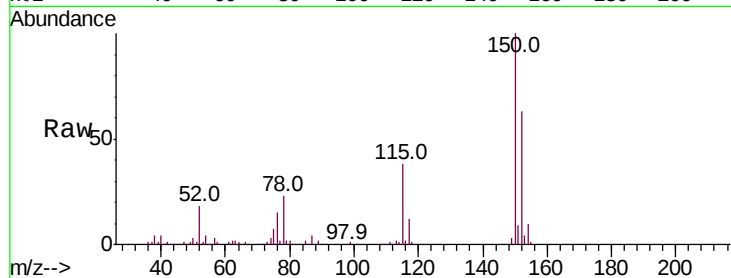
Tot Ion:152 Resp: 139748

Ion Ratio Lower Upper

152 100

115 58.8 29.7 89.1

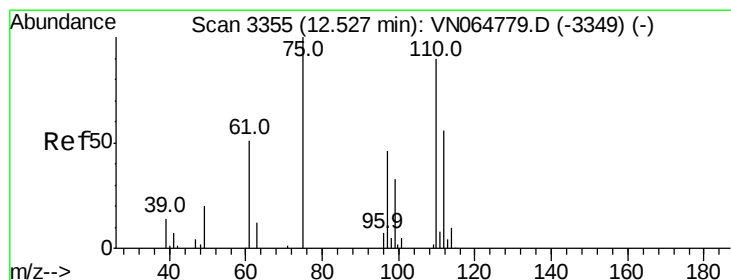
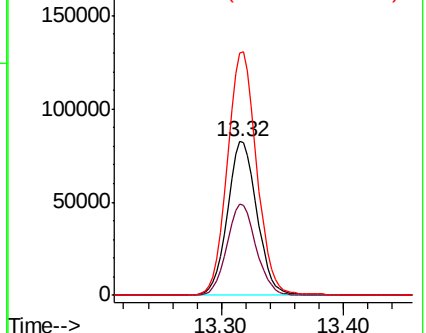
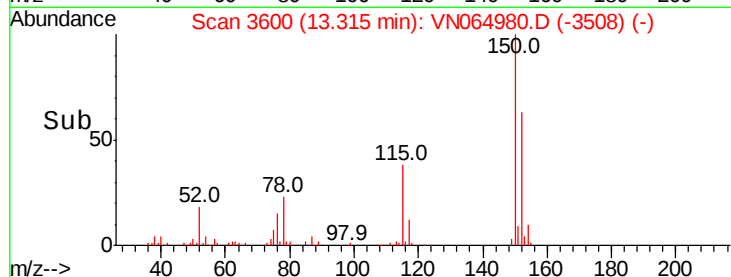
150 157.3 0.0 350.6



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: 23.172 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064980.D

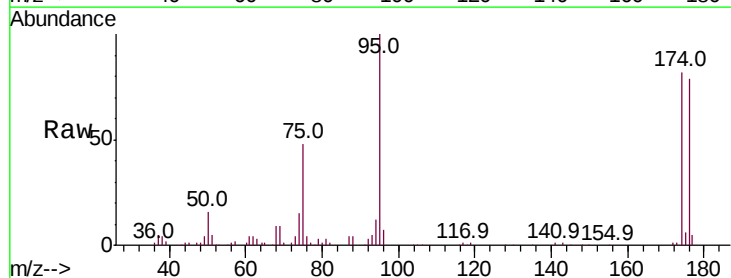
Acq: 8 Dec 2020 19:26

Tgt Ion: 75 Resp: 69737

Ion Ratio Lower Upper

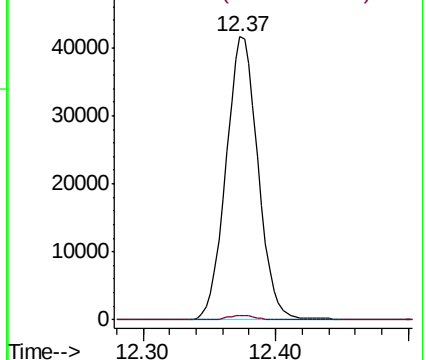
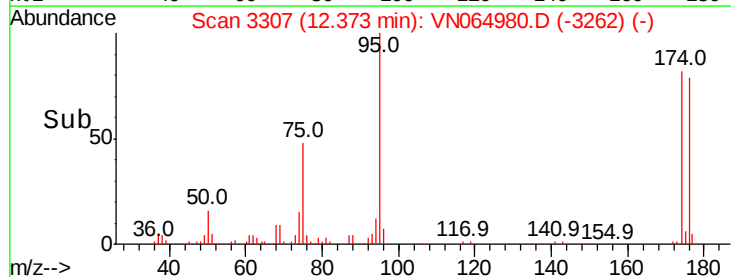
75 100

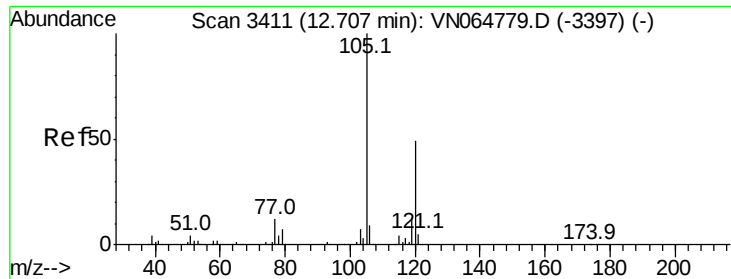
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

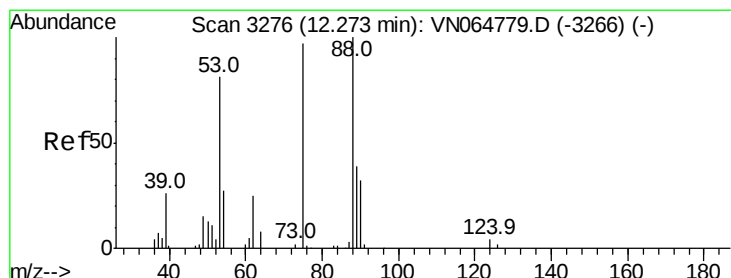
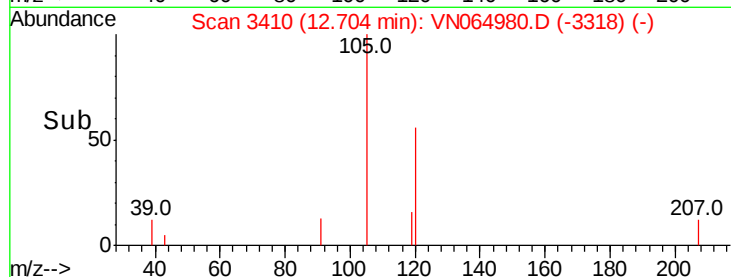
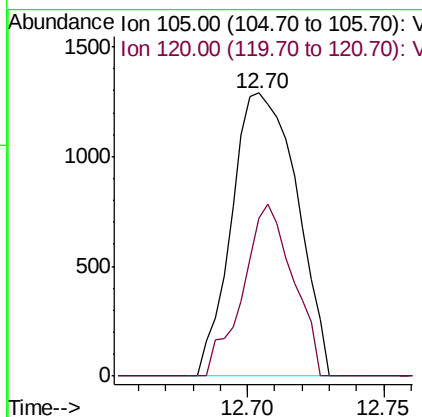
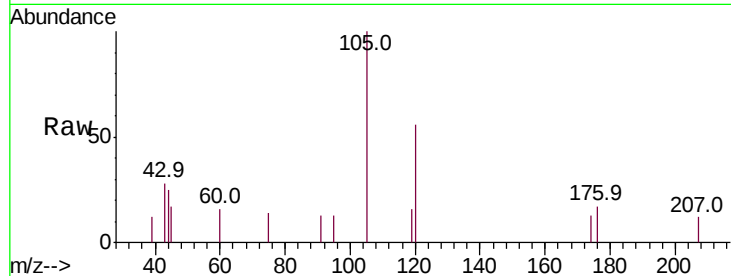




#80
 1,3,5-Trimethylbenzene
 Concen: 0.265 ug/l
 RT: 12.70 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN064980.D
 Acq: 8 Dec 2020 19:26

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#17

Tot Ion:105 Resp: 2142
 Ion Ratio Lower Upper
 105 100
 120 46.6 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.508 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN064980.D
 Acq: 8 Dec 2020 19:26

Tgt Ion: 75 Resp: 69737
 Ion Ratio Lower Upper
 75 100
 53 0.1 67.0 100.4#
 89 0.0 39.6 59.4#

