

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064978.D
 Acq On : 8 Dec 2020 18:38
 Operator : JC/MD
 Sample : PB133456ZHE#15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#15

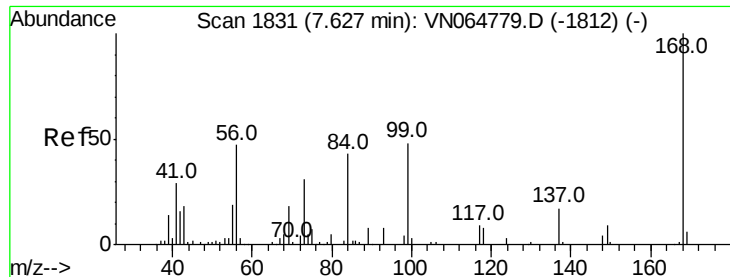
Quant Time: Dec 09 06:54:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	171881	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	333284	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	346279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	142713	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	109655	54.88	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 109.76%			
35) Dibromofluoromethane	7.55	113	100840	50.57	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 101.14%			
50) Toluene-d8	10.06	98	412698	50.65	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 101.30%			
62) 4-Bromofluorobenzene	12.38	95	155088	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	4.75	59	91	0.292	ug/l #	73
16) Acetone	3.78	43	6211	9.455	ug/l	95
18) Methyl Acetate	4.29	43	855	0.433	ug/l #	65
20) Methylene Chloride	4.50	84	9320	4.528	ug/l	97
25) 2-Butanone	6.79	43	3656	3.433	ug/l	99
29) Tetrahydrofuran	7.17	42	894	1.216	ug/l #	62
31) Cyclohexane	7.62	56	3259	1.170	ug/l #	20
36) 1,1-Dichloropropene	7.63	75	12094	3.915	ug/l #	49
37) Ethyl Acetate	6.79	43	3656	1.229	ug/l #	66
38) Carbon Tetrachloride	7.62	117	15943	4.960	ug/l #	16
43) Isopropyl Acetate	8.13	43	19342	4.039	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1241	0.506	ug/l #	43
48) Methyl methacrylate	9.14	41	4338	1.896	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3752	1.305	ug/l #	85
52) Toluene	10.12	92	1304	0.224	ug/l	87
54) cis-1,3-Dichloropropene	9.87	75	28494	7.243	ug/l #	64
57) 1,3-Dichloropropane	10.73	76	17532	4.433	ug/l #	42
59) 2-Hexanone	10.74	43	221118	106.880	ug/l #	51
71) Bromoform	12.38	173	1216	0.557	ug/l #	1
74) N-amyl acetate	11.99	43	942	0.241	ug/l #	42
76) 1,2,3-Trichloropropane	12.38	75	73700	23.980	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1667	0.202	ug/l	90
81) trans-1,4-Dichloro-2-buten	12.38	75	73700	65.722	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: VN064978.D

Acq: 8 Dec 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

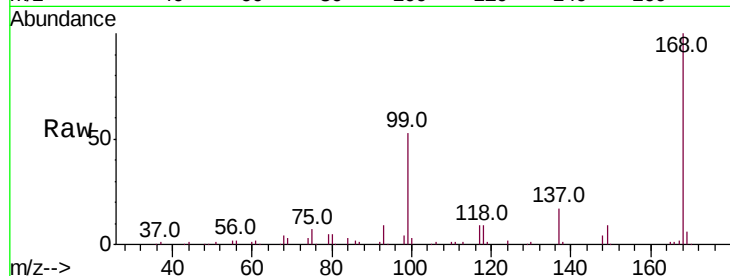
PB133456ZHE#15

Tot Ion:168 Resp: 171881

Ion Ratio Lower Upper

168 100

99 53.1 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

80000

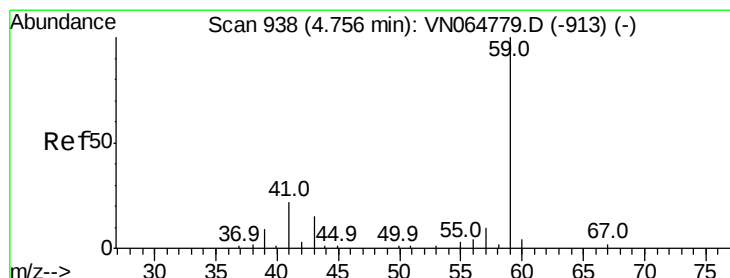
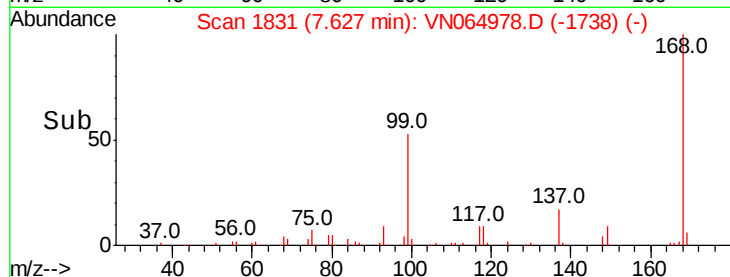
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.292 ug/l

RT: 4.75 min Scan# 935

Delta R.T. -0.01 min

Lab File: VN064978.D

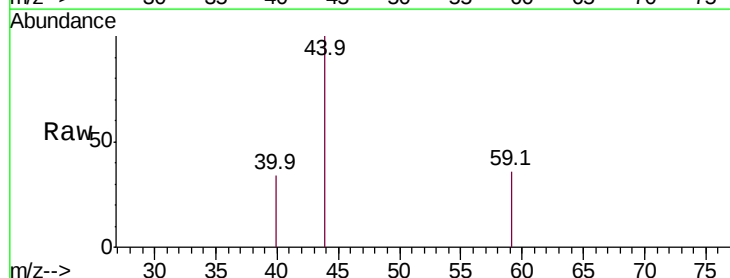
Acq: 8 Dec 2020 18:38

Tgt Ion: 59 Resp: 91

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN064779.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN064779.D (-913) (-)

4.75

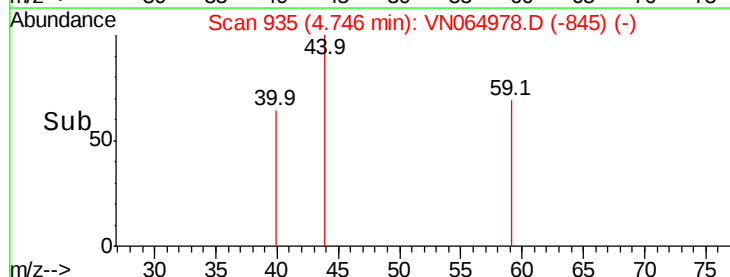
150

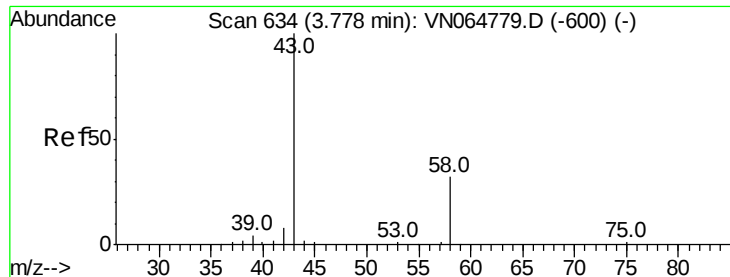
100

50

0

Time--> 4.73 4.74 4.75 4.76





#16

Acetone

Concen: 9.455 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

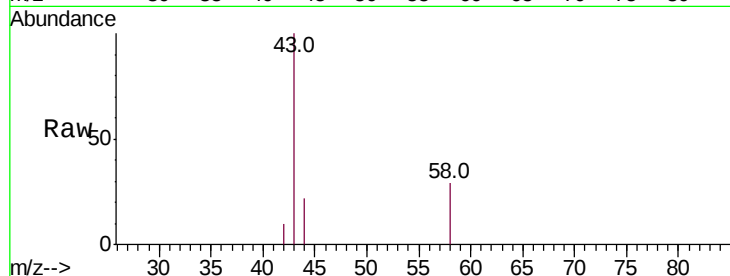
PB133456ZHE#15

Tot Ion: 43 Resp: 6211

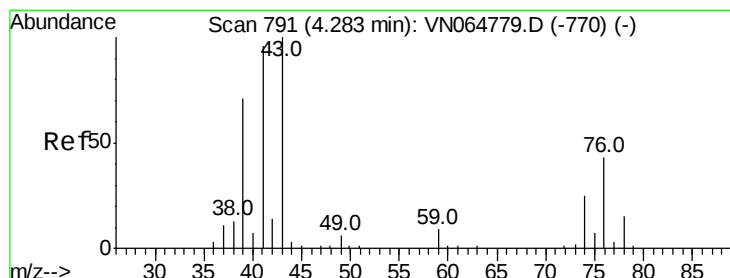
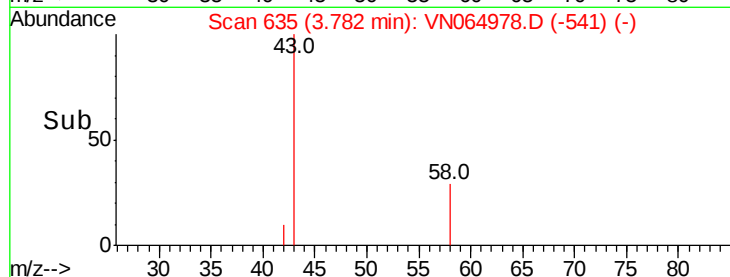
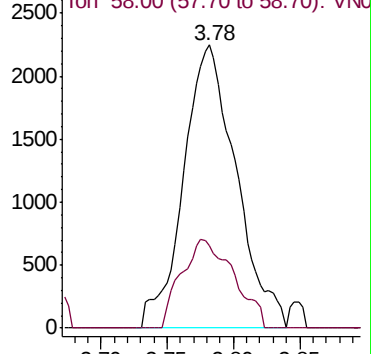
Ion Ratio Lower Upper

43 100

58 29.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064978.D (-541) (-)



#18

Methyl Acetate

Concen: 0.433 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN064978.D

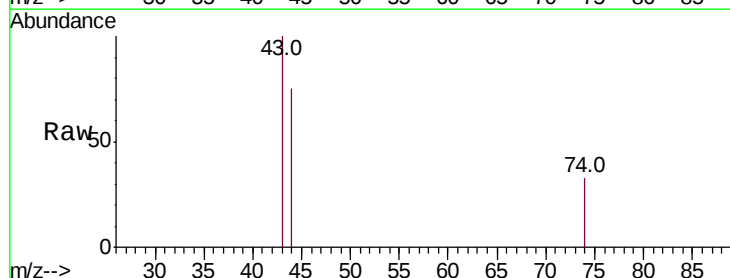
Acq: 8 Dec 2020 18:38

Tgt Ion: 43 Resp: 855

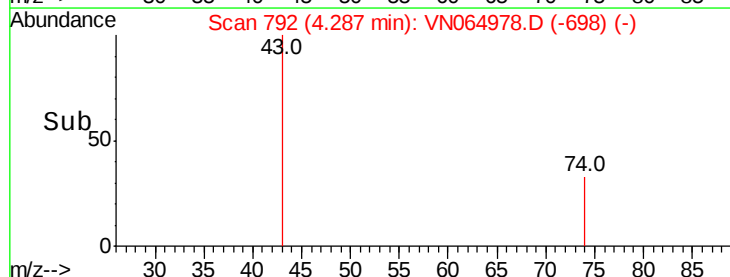
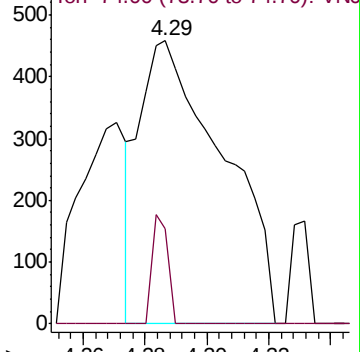
Ion Ratio Lower Upper

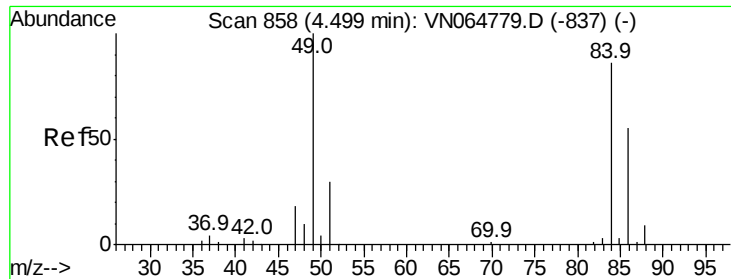
43 100

74 7.5 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN064978.D (-698) (-)

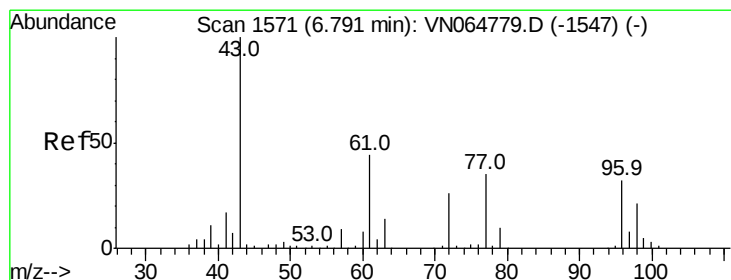
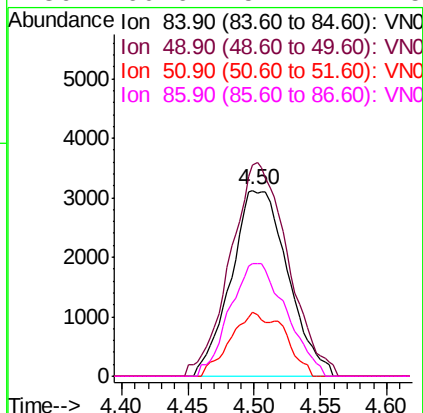
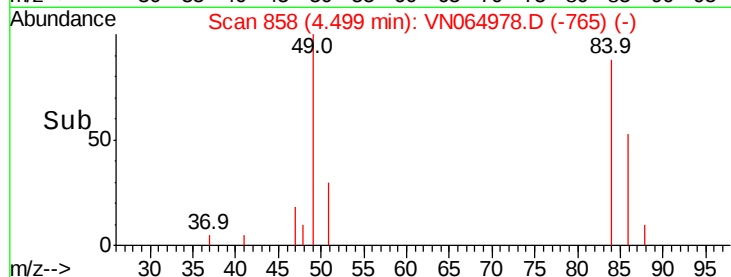
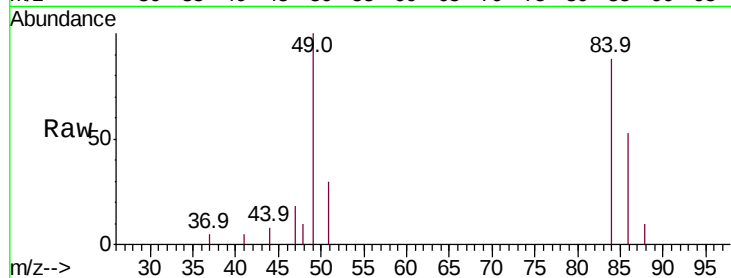




#20
Methvlene Chloride
Concen: 4.528 ug/l
RT: 4.50 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN064978.D
Acq: 8 Dec 2020 18:38

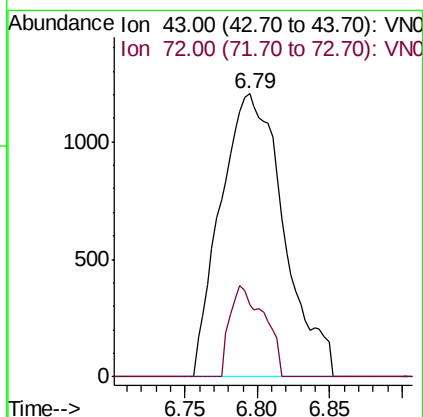
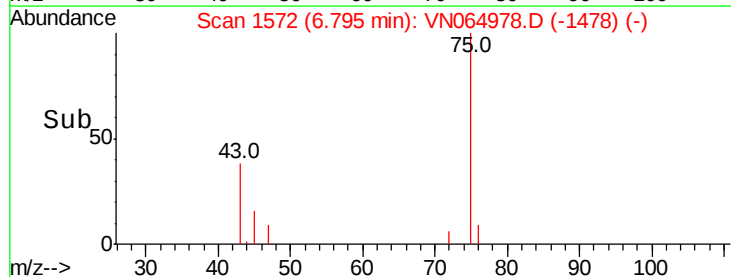
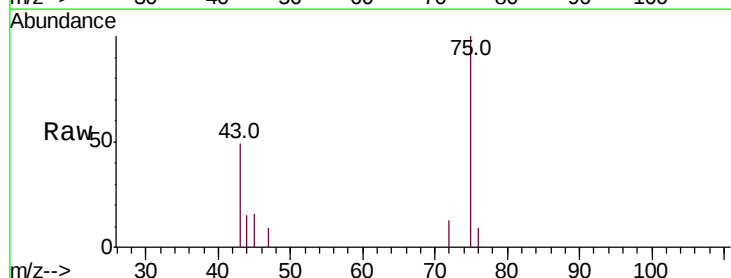
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#15

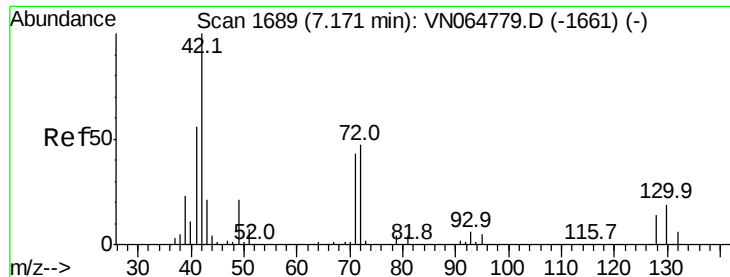
Tot Ion: 84 Resp: 9320
Ion Ratio Lower Upper
84 100
49 114.0 93.4 140.0
51 34.5 28.2 42.4
86 60.6 51.7 77.5



#25
2-Butanone
Concen: 3.433 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN064978.D
Acq: 8 Dec 2020 18:38

Tgt Ion: 43 Resp: 3656
Ion Ratio Lower Upper
43 100
72 25.7 21.0 31.6





#29

Tetrahydrofuran

Concen: 1.216 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#15

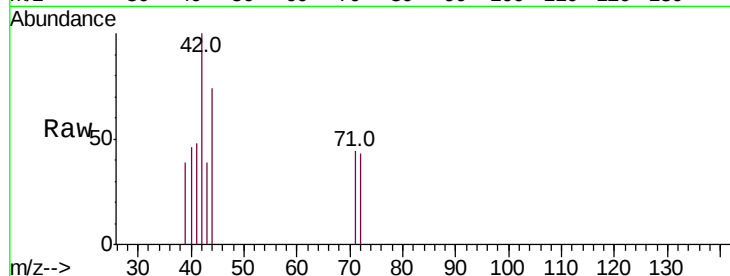
Tot Ion: 42 Resp: 894

Ion Ratio Lower Upper

42 100

72 15.1 36.6 54.8#

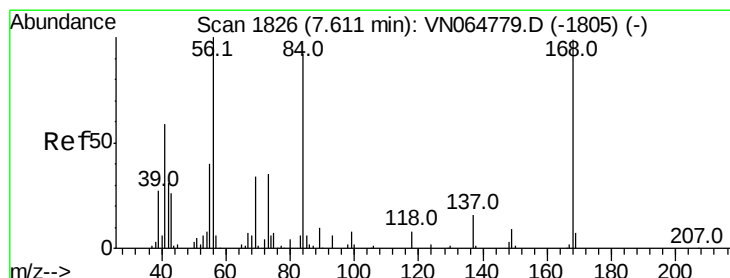
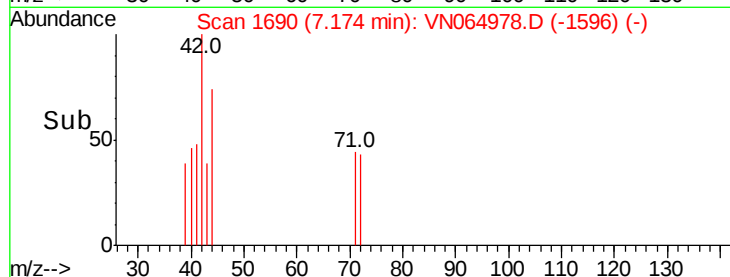
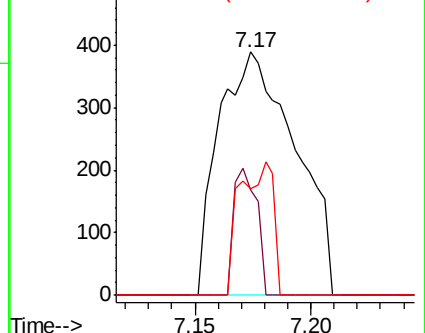
71 23.9 33.6 50.4#



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: 1.170 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

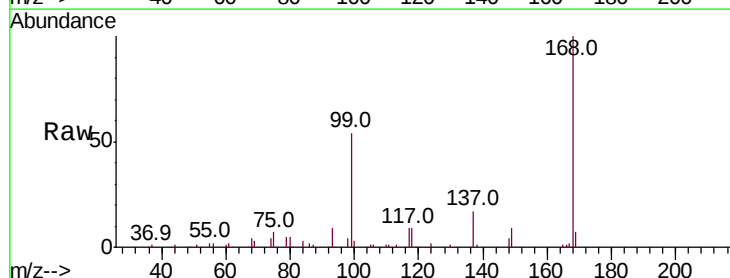
Tgt Ion: 56 Resp: 3259

Ion Ratio Lower Upper

56 100

69 154.2 27.5 41.3#

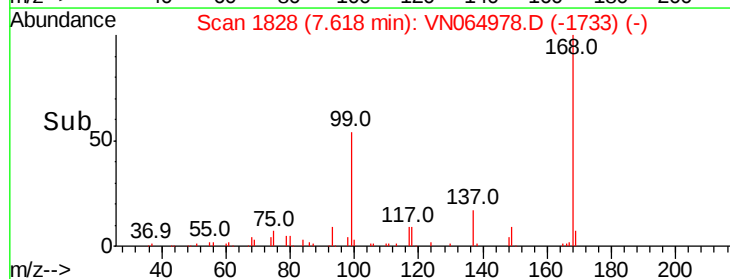
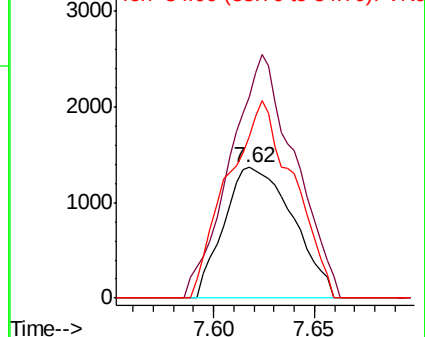
84 123.9 73.9 110.9#

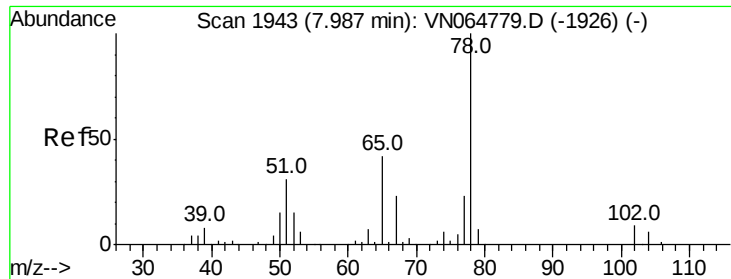


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 54.876 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

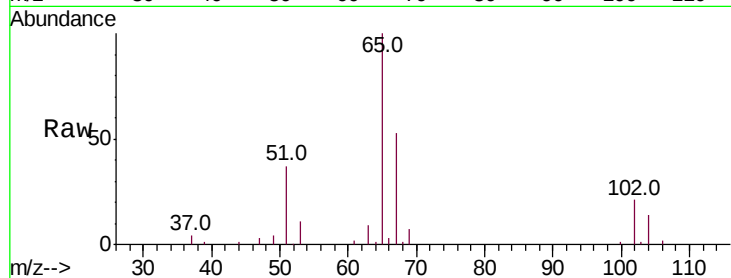
PB133456ZHE#15

Tot Ion: 65 Resp: 109655

Ion Ratio Lower Upper

65 100

67 53.8 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN064779.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN064779.D (-1926) (-)

7.99

50000

40000

30000

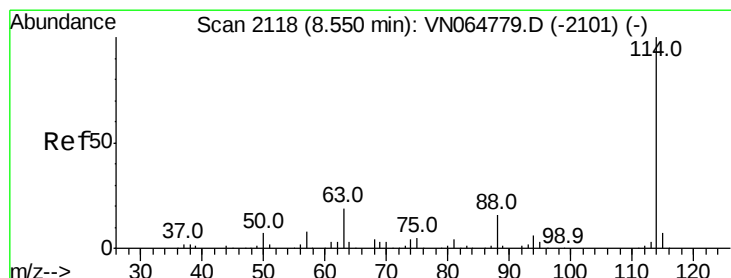
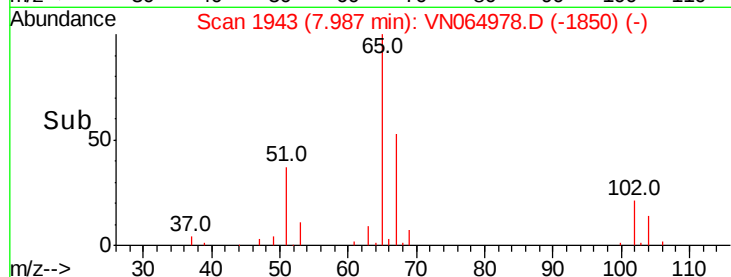
20000

10000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

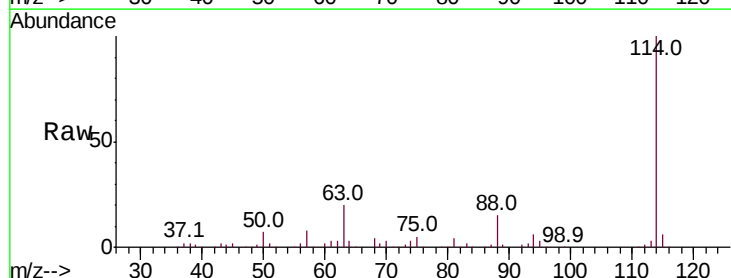
Tgt Ion: 114 Resp: 333284

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.6

88 15.1 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): VN064779.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN064779.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN064779.D (-2101) (-)

8.55

200000

150000

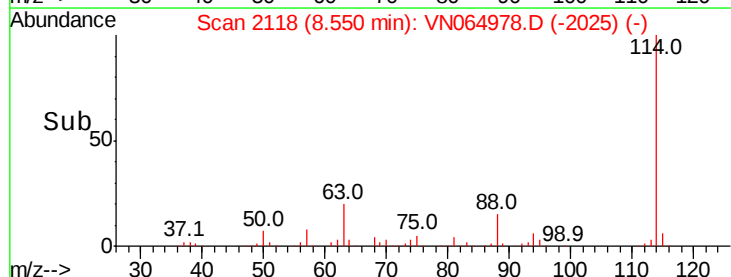
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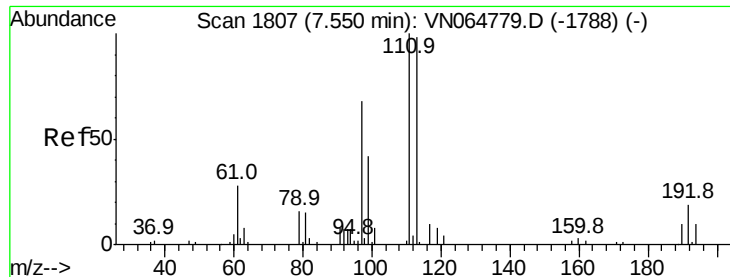
50000

0

Time-->

8.50 8.60

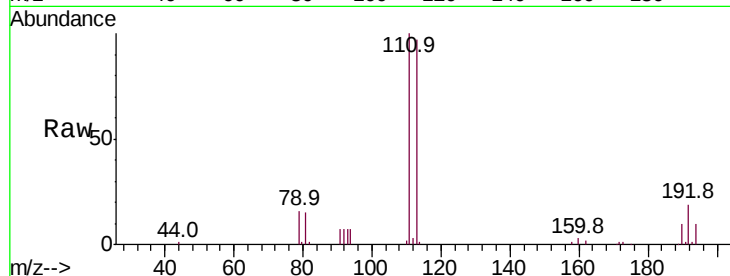




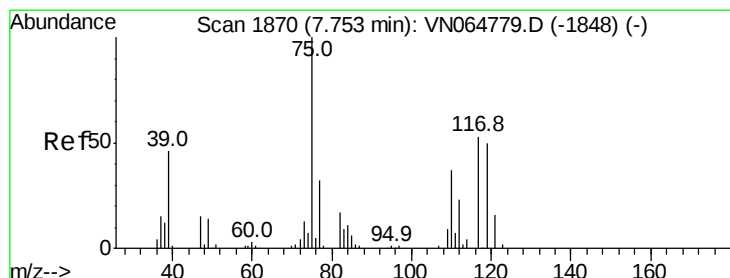
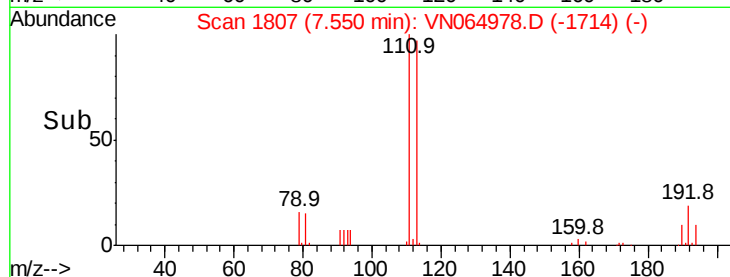
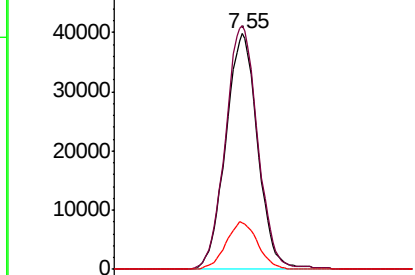
#35
 Dibromofluoromethane
 Concen: 50.565 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064978.D
 Acq: 8 Dec 2020 18:38

Instrument :
 MSVOA_N
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 PB133456ZHE#15

Tot Ion:113 Resp: 100840
 Ion Ratio Lower Upper
 113 100
 111 104.4 81.6 122.4
 192 20.0 16.2 24.2

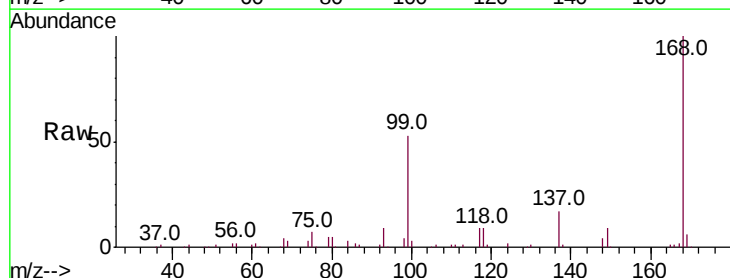


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

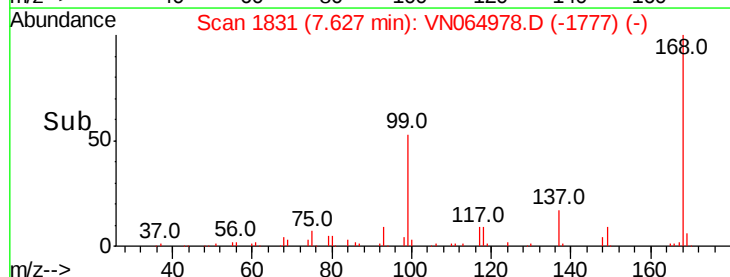
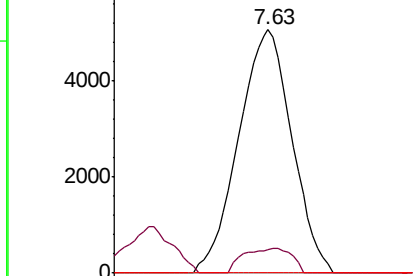


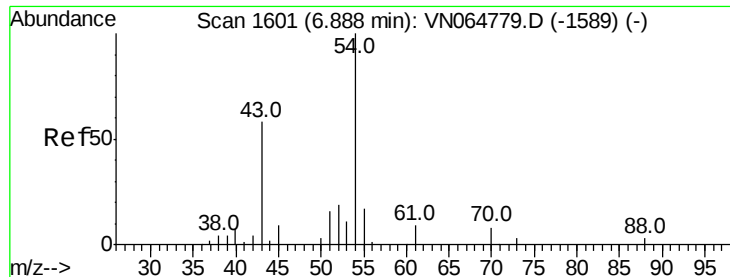
#36
 1,1-Dichloropropene
 Concen: 3.915 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064978.D
 Acq: 8 Dec 2020 18:38

Tgt Ion: 75 Resp: 12094
 Ion Ratio Lower Upper
 75 100
 110 9.1 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

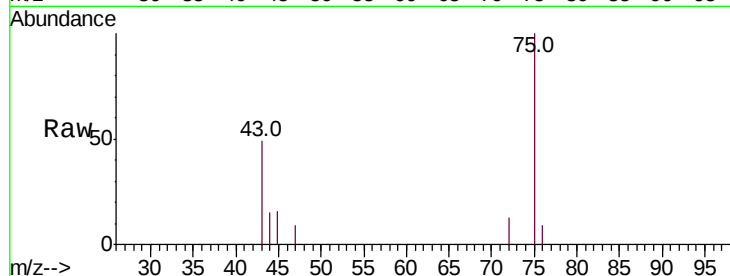




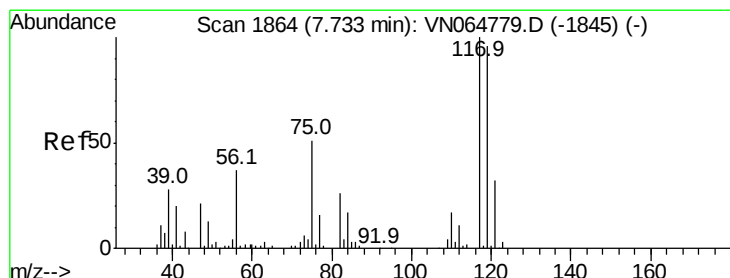
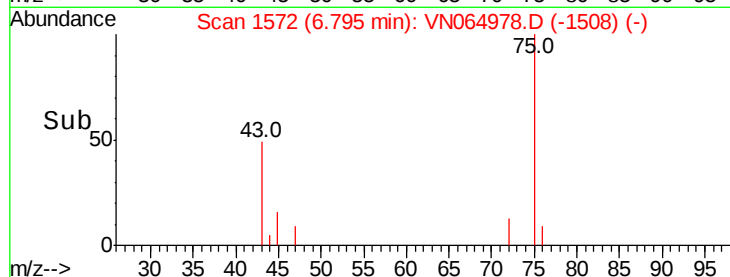
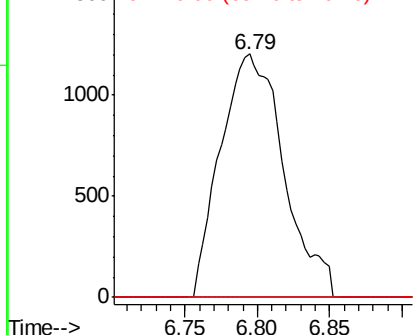
#37
Ethyl Acetate
Concen: 1.229 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. -0.09 min
Lab File: VN064978.D
Acq: 8 Dec 2020 18:38

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#15

Tot Ion: 43 Resp: 3656
Ion Ratio Lower Upper
43 100
61 0.0 12.8 19.2#
70 0.0 8.8 13.2#

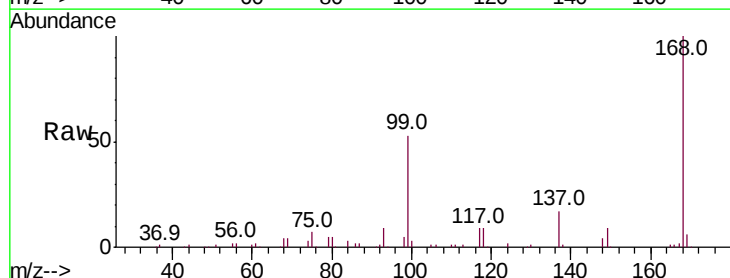


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

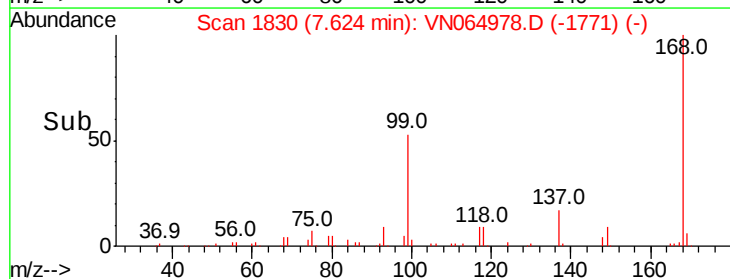
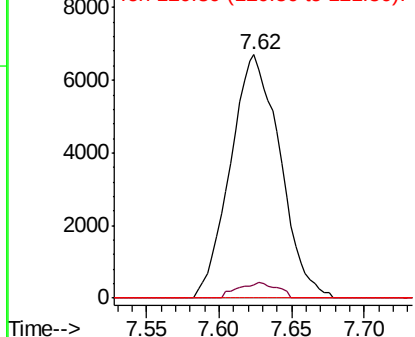


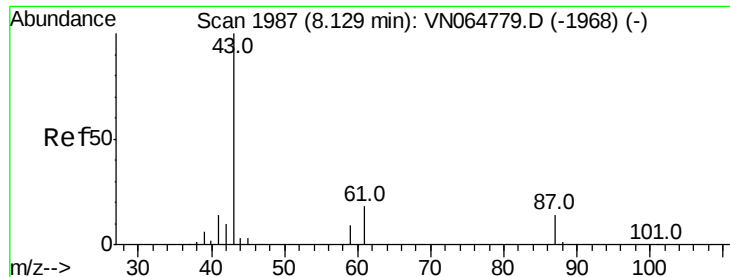
#38
Carbon Tetrachloride
Concen: 4.960 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN064978.D
Acq: 8 Dec 2020 18:38

Tgt Ion: 117 Resp: 15943
Ion Ratio Lower Upper
117 100
119 5.4 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: 4.039 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#15

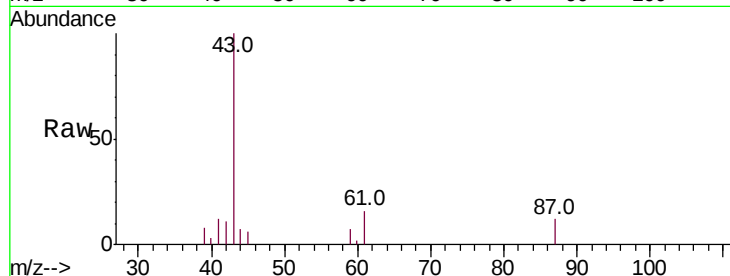
Tot Ion: 43 Resp: 19342

Ion Ratio Lower Upper

43 100

61 16.6 17.2 25.8#

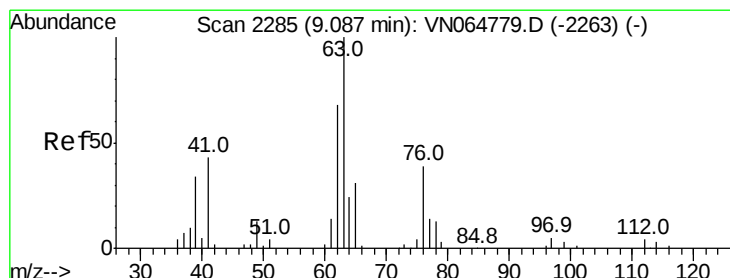
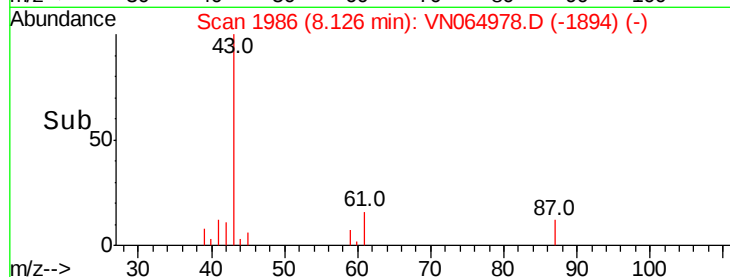
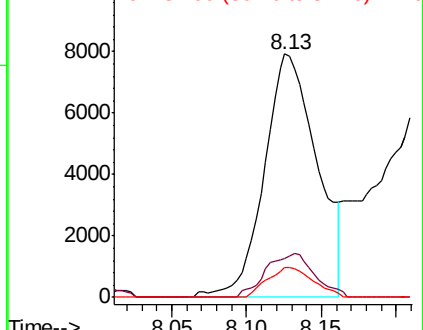
87 10.6 11.4 17.0#



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: 0.506 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN064978.D

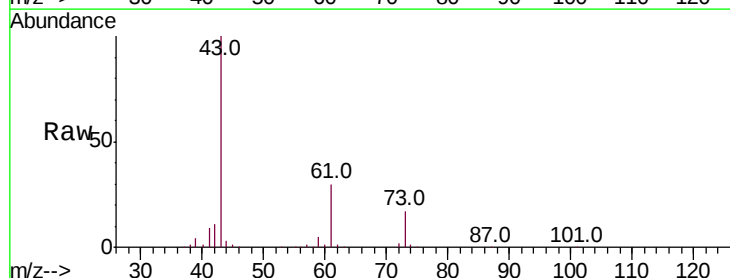
Acq: 8 Dec 2020 18:38

Tgt Ion: 63 Resp: 1241

Ion Ratio Lower Upper

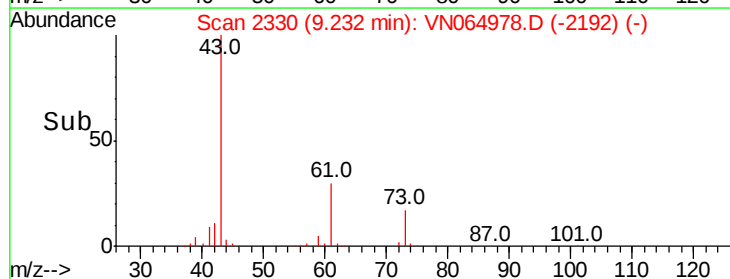
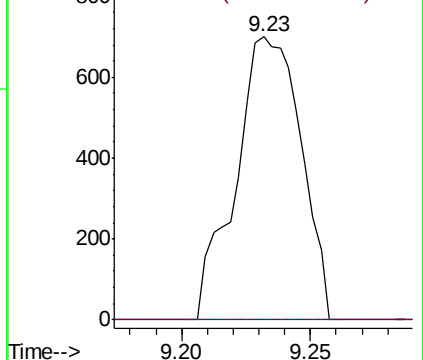
63 100

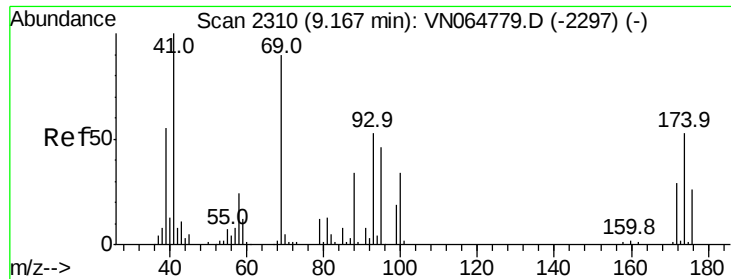
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

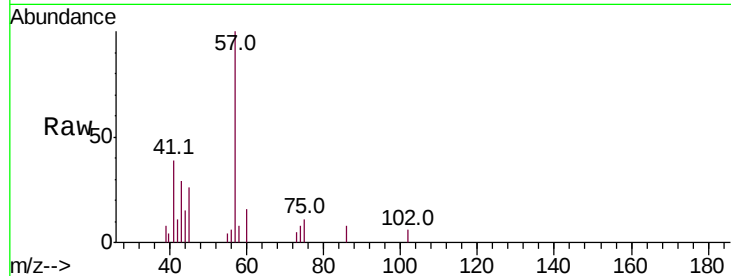




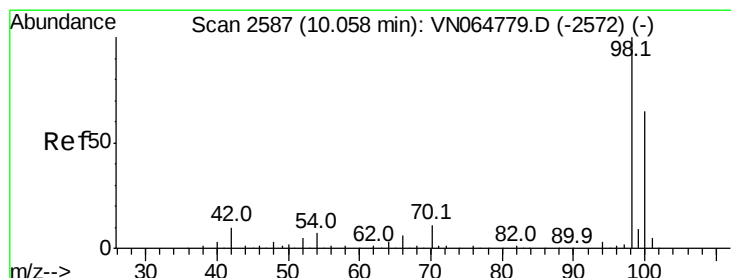
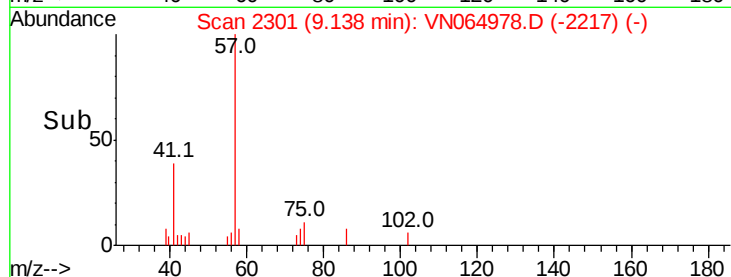
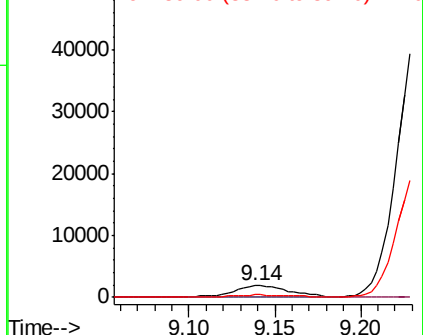
#48
Methvl methacrylate
Concen: 1.896 ug/l
RT: 9.14 min Scan# 2301
Delta R.T. -0.03 min
Lab File: VN064978.D
Acq: 8 Dec 2020 18:38

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#15

Tot Ion: 41 Resp: 4338
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

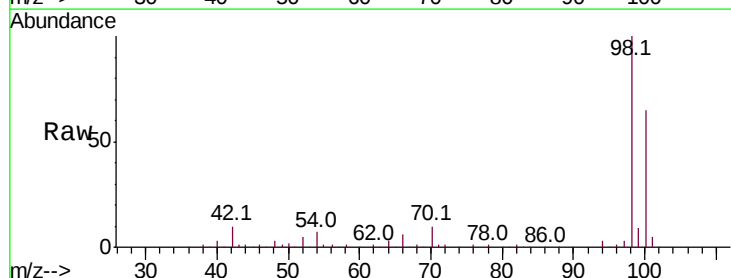


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

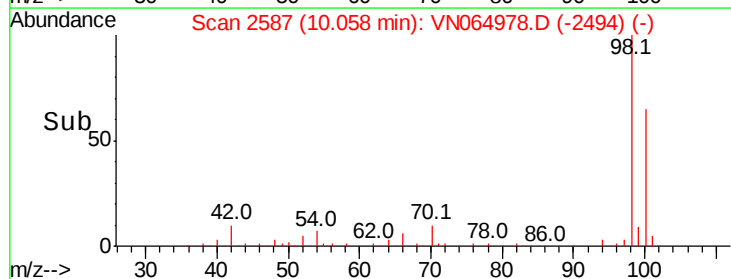
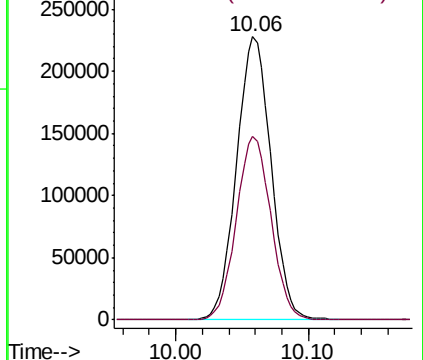


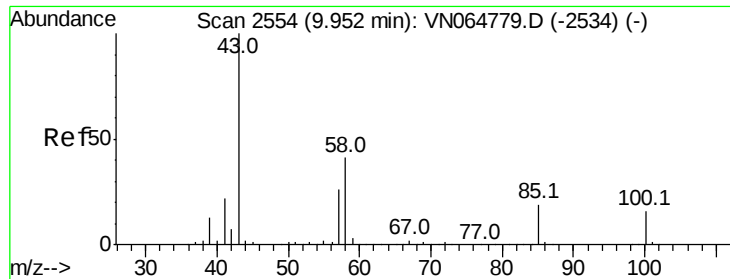
#50
Toluene-d8
Concen: 50.648 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064978.D
Acq: 8 Dec 2020 18:38

Tgt Ion: 98 Resp: 412698
Ion Ratio Lower Upper
98 100
100 65.1 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: 1.305 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

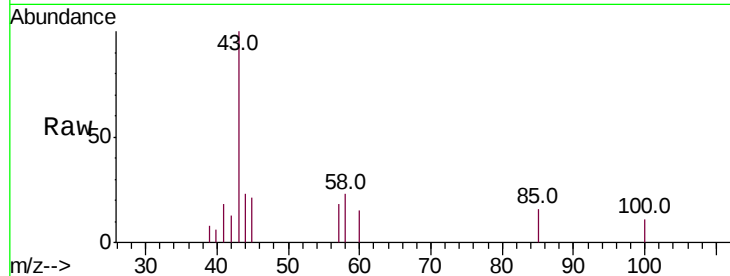
PB133456ZHE#15

Tot Ion: 43 Resp: 3752

Ion Ratio Lower Upper

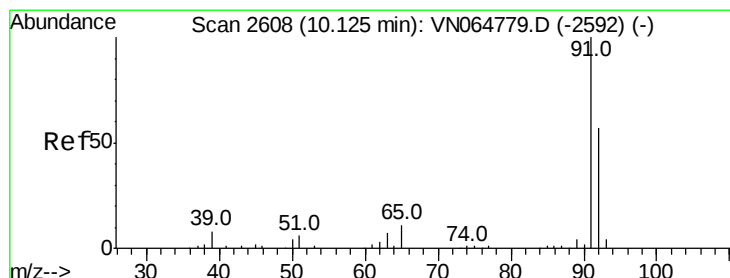
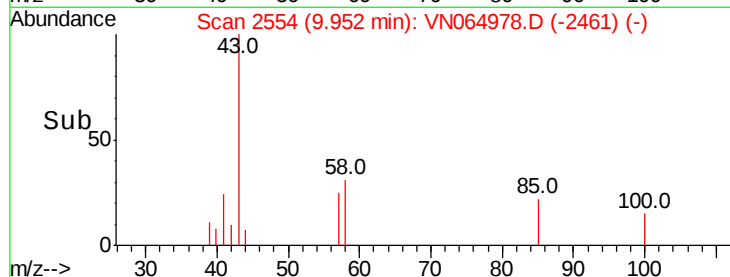
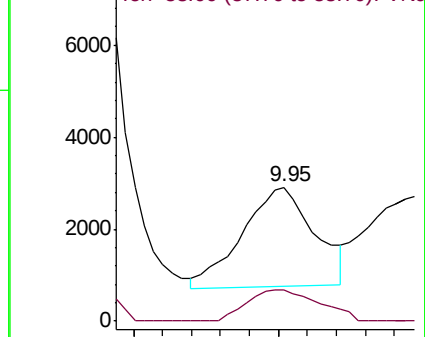
43 100

58 31.3 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.224 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064978.D

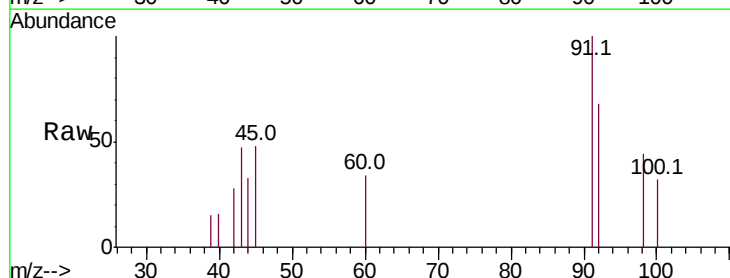
Acq: 8 Dec 2020 18:38

Tgt Ion: 92 Resp: 1304

Ion Ratio Lower Upper

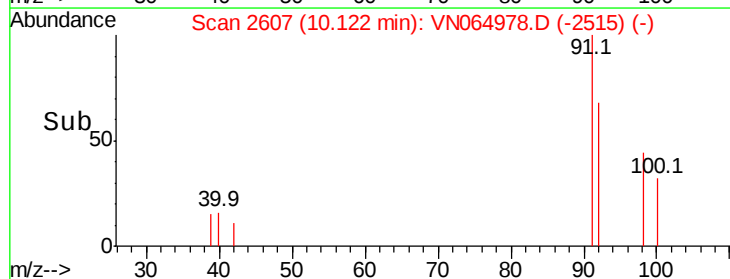
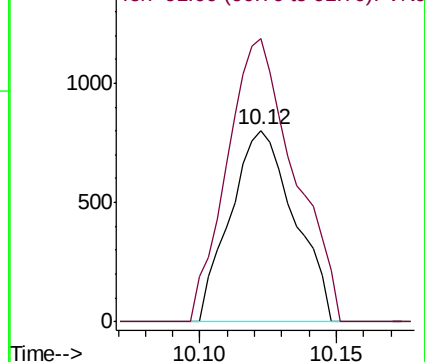
92 100

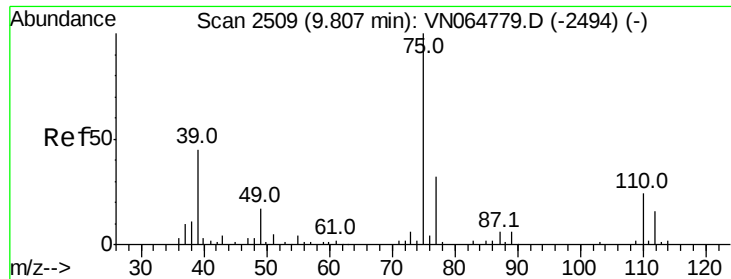
91 156.2 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 7.243 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#15

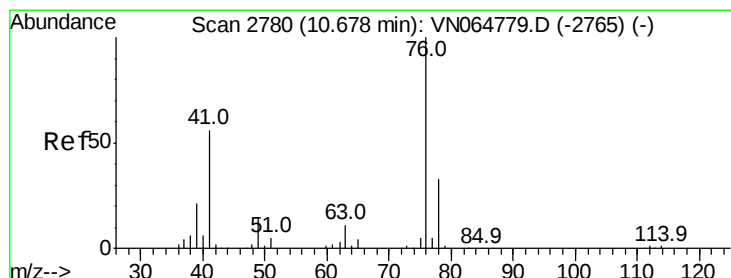
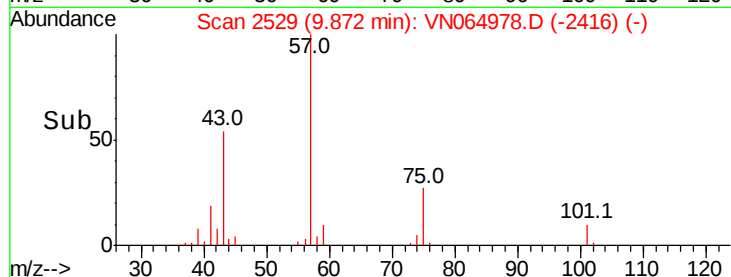
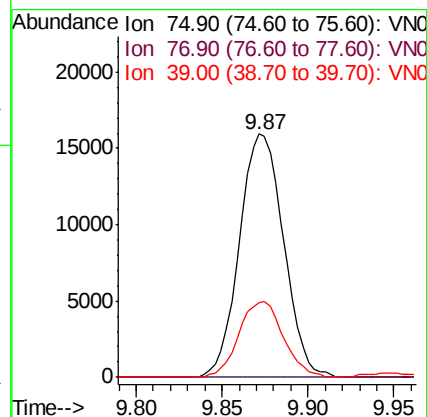
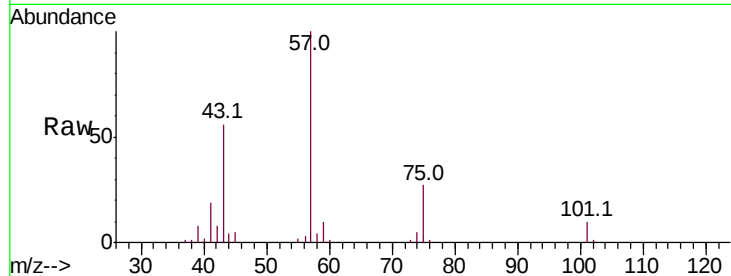
Tot Ion: 75 Resp: 28494

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 30.5 35.6 53.4#



#57

1,3-Dichloropropane

Concen: 4.433 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064978.D

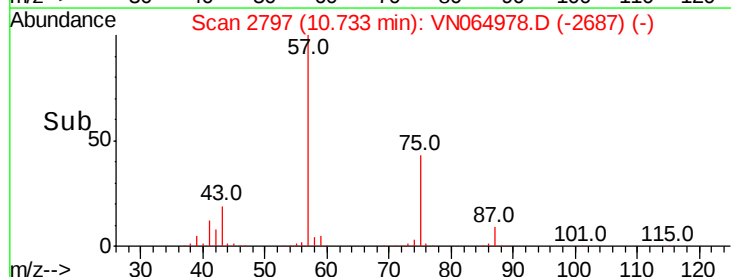
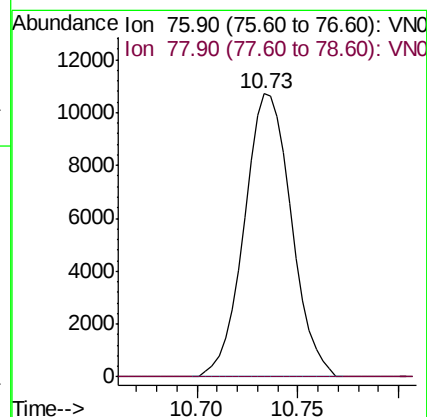
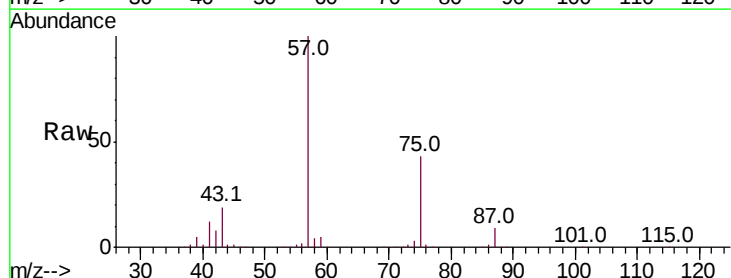
Acq: 8 Dec 2020 18:38

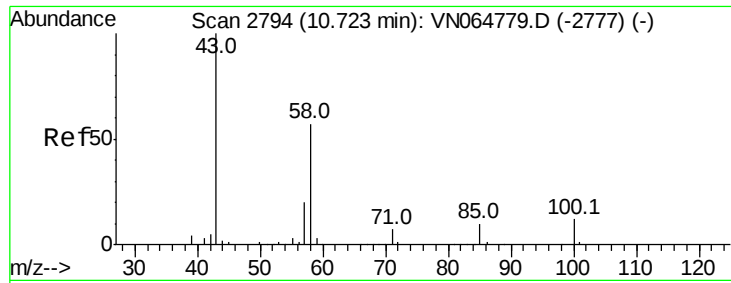
Tgt Ion: 76 Resp: 17532

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#

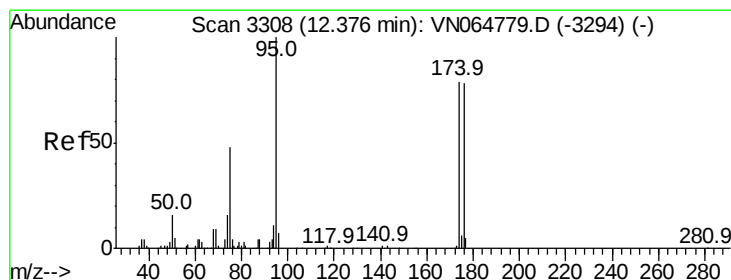
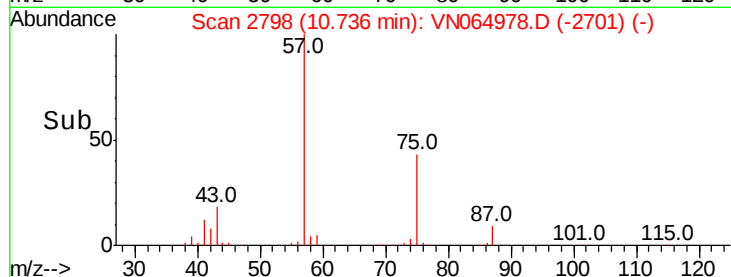
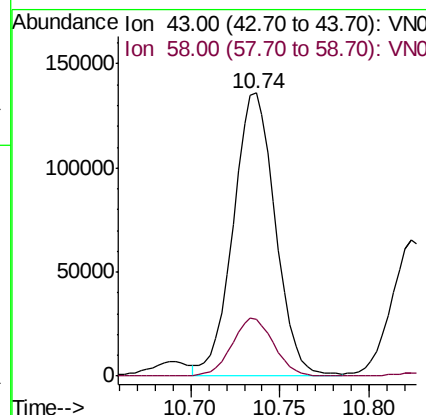
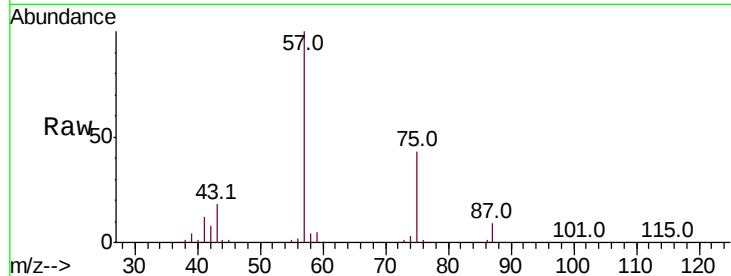




#59
2-Hexanone
Concen: 106.880 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064978.D
Acq: 8 Dec 2020 18:38

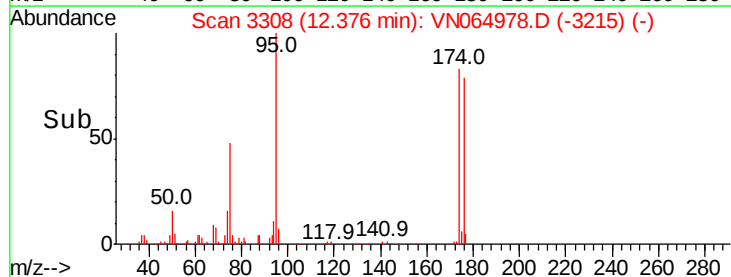
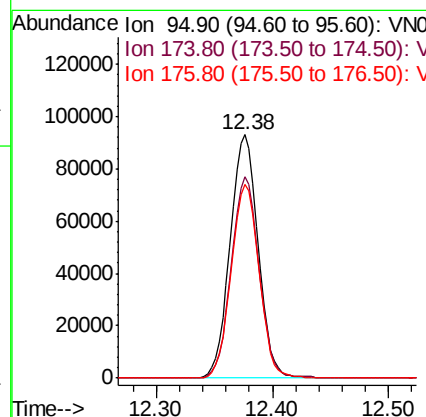
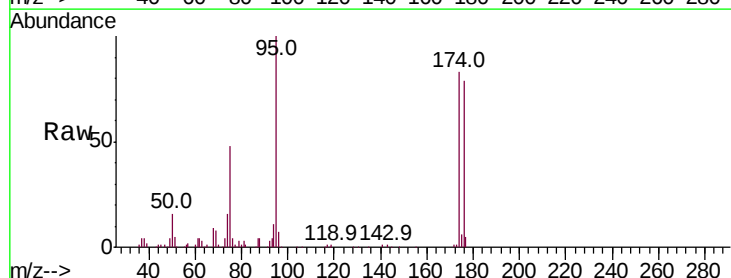
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#15

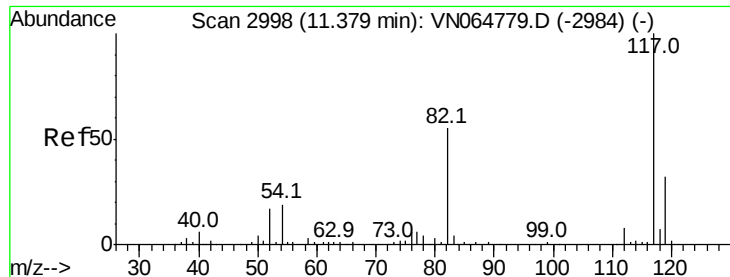
Tot Ion: 43 Resp: 221118
Ion Ratio Lower Upper
43 100
58 20.6 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 53.182 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064978.D
Acq: 8 Dec 2020 18:38

Tgt Ion: 95 Resp: 155088
Ion Ratio Lower Upper
95 100
174 82.1 0.0 160.4
176 79.3 0.0 158.4

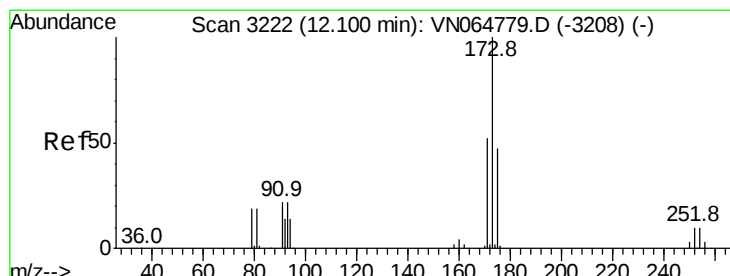
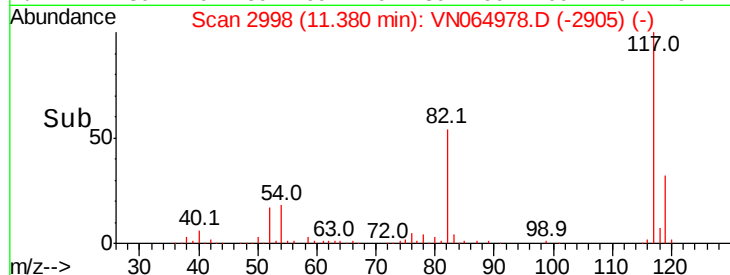
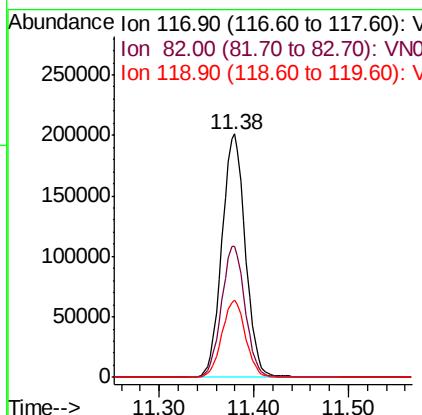
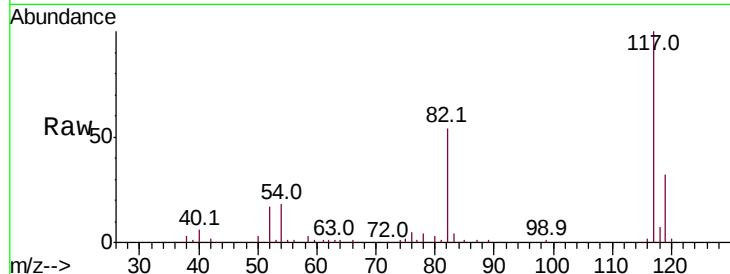




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2998
 Delta R.T. 0.00 min
 Lab File: VN064978.D
 Acq: 8 Dec 2020 18:38

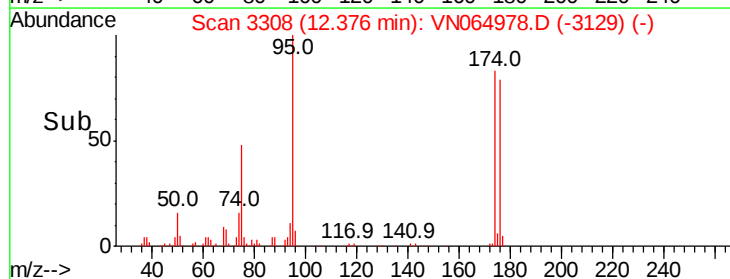
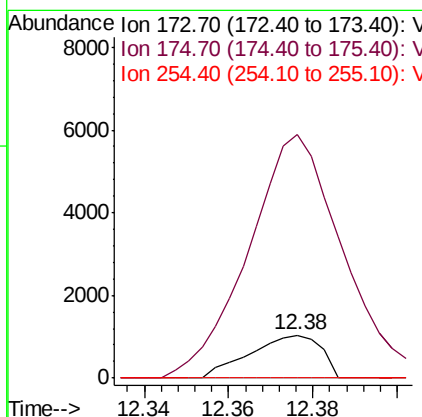
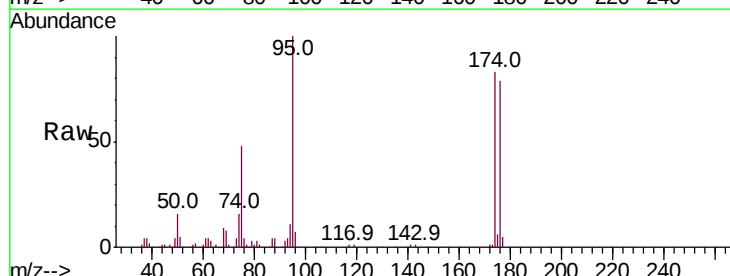
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#15

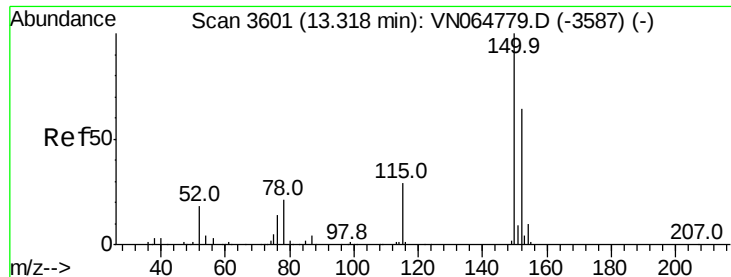
Tot Ion:117 Resp: 346279
 Ion Ratio Lower Upper
 117 100
 82 54.0 44.2 66.2
 119 31.7 25.8 38.6



#71
 Bromoform
 Concen: 0.557 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.28 min
 Lab File: VN064978.D
 Acq: 8 Dec 2020 18:38

Tgt Ion:173 Resp: 1216
 Ion Ratio Lower Upper
 173 100
 175 639.2 24.3 72.8#
 254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#15

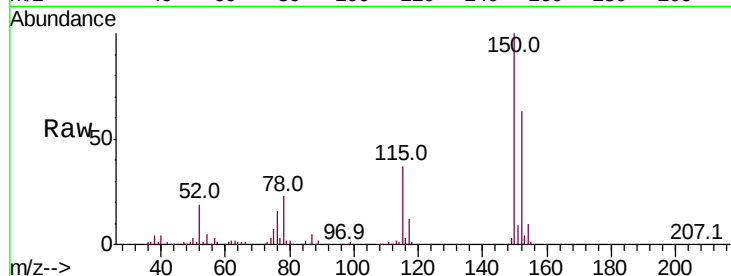
Tot Ion:152 Resp: 142713

Ion Ratio Lower Upper

152 100

115 58.9 29.7 89.1

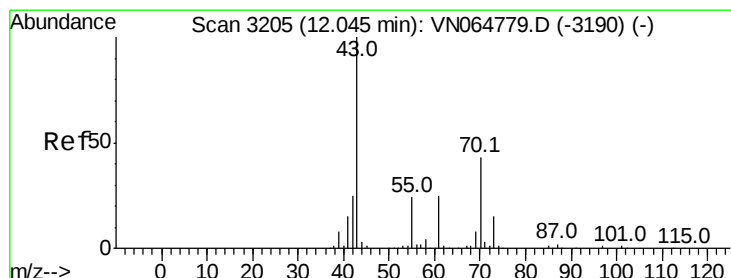
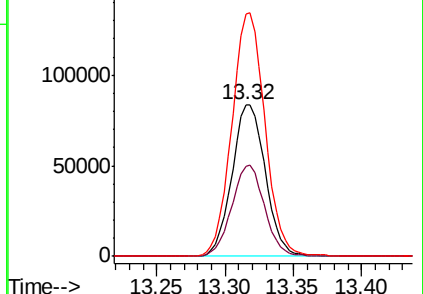
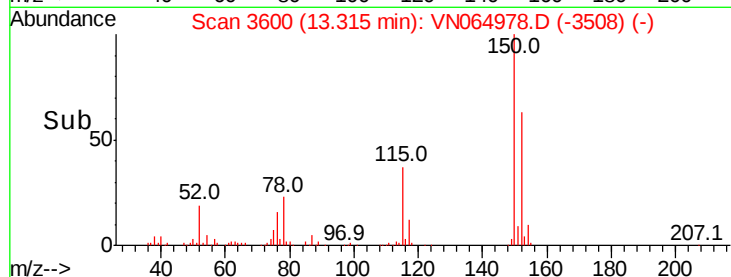
150 158.6 0.0 350.6



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



#74

N-amil acetate

Concen: 0.241 ug/l

RT: 11.99 min Scan# 3189

Delta R.T. -0.05 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

Tgt Ion: 43 Resp: 942

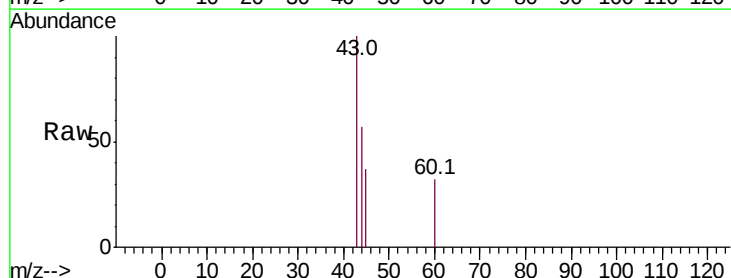
Ion Ratio Lower Upper

43 100

70 0.0 34.5 51.7#

55 0.0 20.4 30.6#

61 0.0 20.0 30.0#

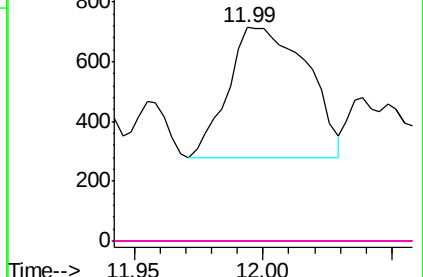
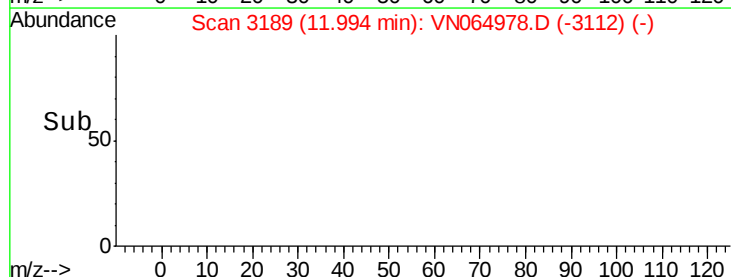


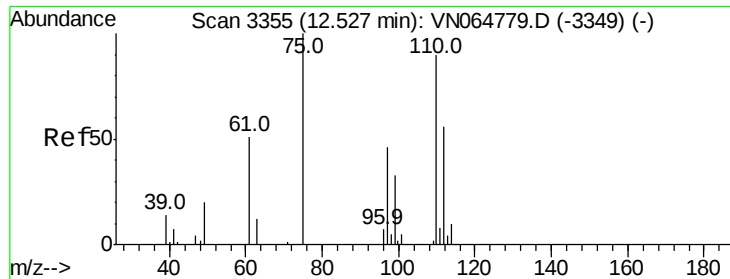
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

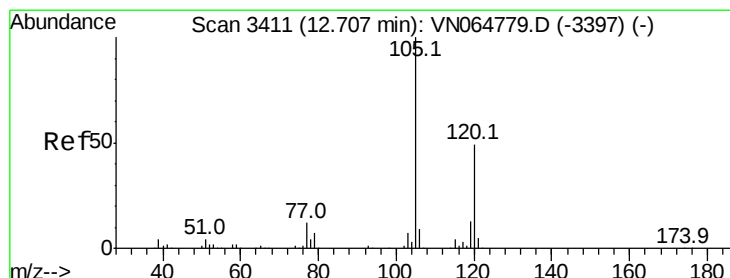
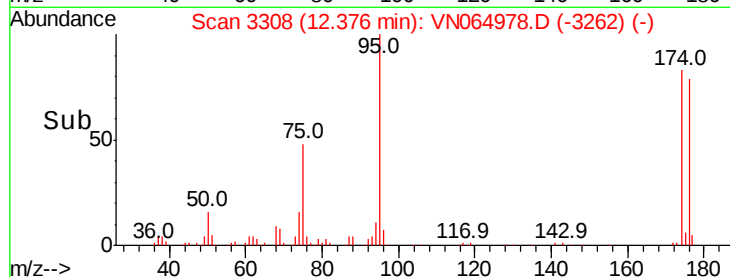
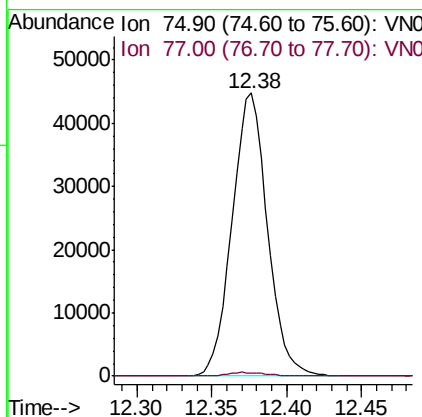
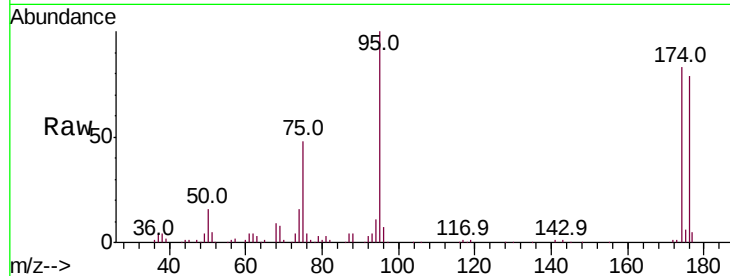




#76
 1,2,3-Trichloropropane
 Concen: 23.980 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN064978.D
 Acq: 8 Dec 2020 18:38

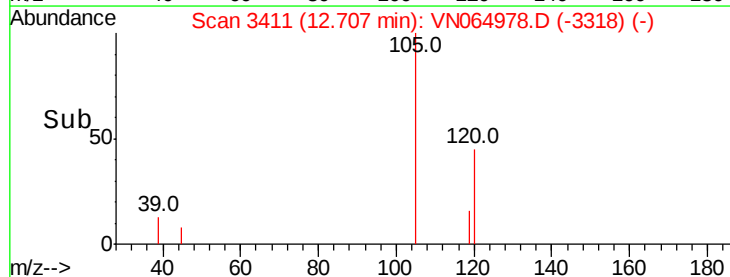
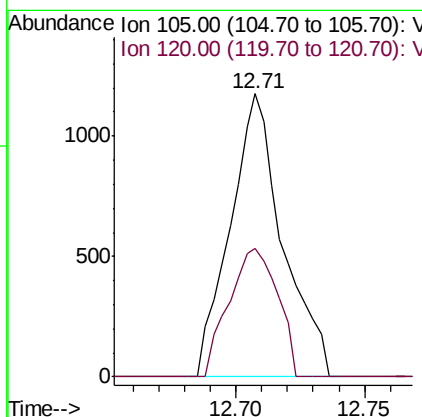
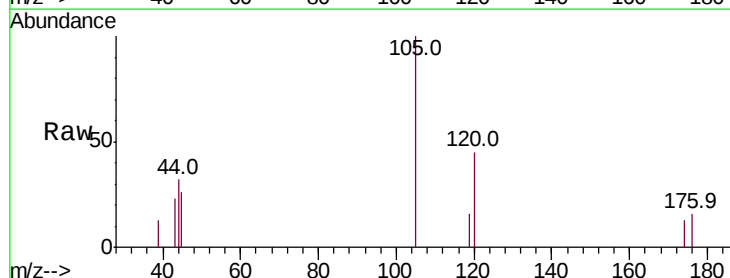
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#15

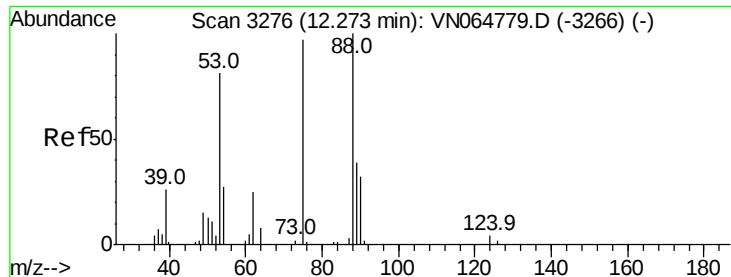
Tot Ion: 75 Resp: 73700
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.202 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN064978.D
 Acq: 8 Dec 2020 18:38

Tgt Ion:105 Resp: 1667
 Ion Ratio Lower Upper
 105 100
 120 42.1 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 65.722 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064978.D

Acq: 8 Dec 2020 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#15

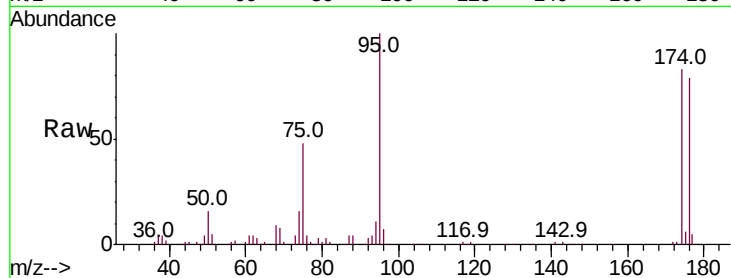
Tot Ion: 75 Resp: 73700

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

