

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064974.D
 Acq On : 8 Dec 2020 17:02
 Operator : JC/MD
 Sample : PB133456ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#11

Quant Time: Dec 09 06:53:21 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	164137	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	318119	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	333543	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	143360	50.00	ug/l	0.00

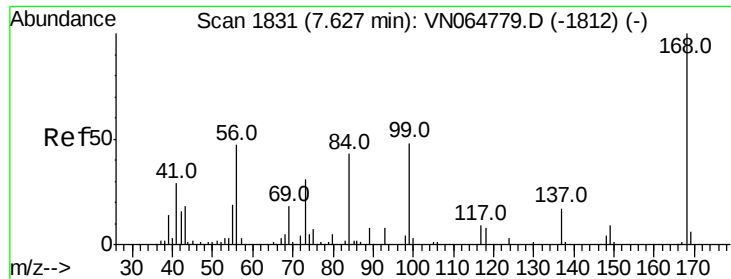
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	105456	55.26	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	110.52%
35) Dibromofluoromethane	7.55	113	99065	52.04	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	104.08%
50) Toluene-d8	10.06	98	398845	51.28	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.56%
62) 4-Bromofluorobenzene	12.38	95	150235	53.97	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	107.94%

Target Compounds

					Qvalue	
16) Acetone	3.78	43	5521	8.802	ug/l	97
18) Methyl Acetate	4.28	43	572	0.303	ug/l #	50
20) Methylene Chloride	4.50	84	5281	2.687	ug/l	93
25) 2-Butanone	6.79	43	1574	1.548	ug/l #	89
29) Tetrahydrofuran	7.18	42	1188	1.692	ug/l #	56
31) Cyclohexane	7.63	56	2911	1.095	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11396	3.865	ug/l #	49
37) Ethyl Acetate	6.79	43	1574	0.554	ug/l #	66
38) Carbon Tetrachloride	7.62	117	15654	5.102	ug/l #	15
41) Methacrylonitrile	7.18	41	629	0.480	ug/l #	15
43) Isopropyl Acetate	8.13	43	18556	4.060	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	1131	0.483	ug/l #	43
48) Methyl methacrylate	9.14	41	4086	1.871	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	3327	1.213	ug/l	99
52) Toluene	10.12	92	1478	0.266	ug/l	87
54) cis-1,3-Dichloropropene	9.87	75	29470	7.848	ug/l #	64
57) 1,3-Dichloropropane	10.74	76	18095	4.794	ug/l #	42
59) 2-Hexanone	10.73	43	230215	116.582	ug/l #	50
74) N-amyl acetate	11.85	43	10560	2.691	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	71909	23.291	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	1846	0.223	ug/l	83
81) trans-1,4-Dichloro-2-buten	12.38	75	71909	63.836	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: VN064974.D

Acq: 8 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

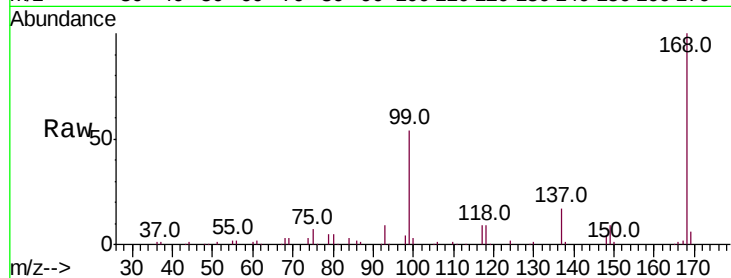
PB133456ZHE#11

Tot Ion:168 Resp: 164137

Ion Ratio Lower Upper

168 100

99 54.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

60000

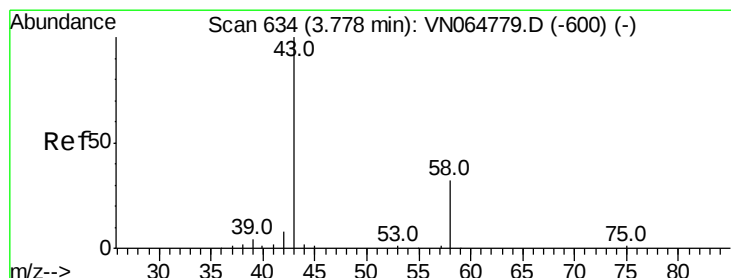
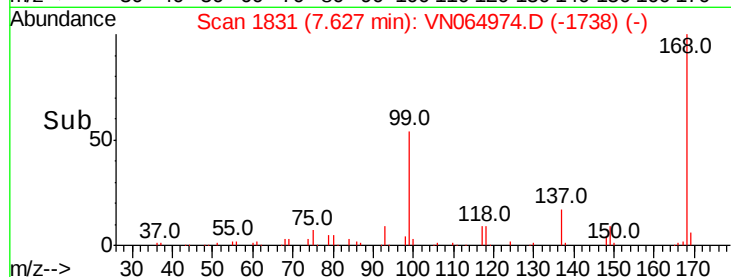
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 8.802 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064974.D

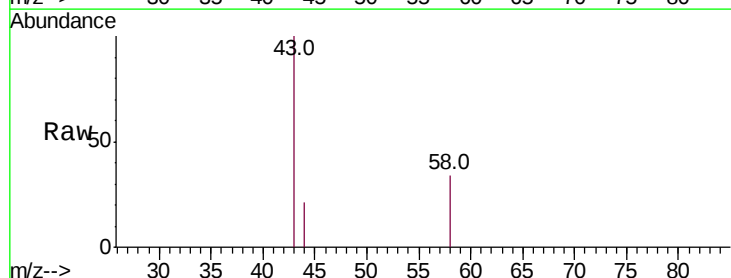
Acq: 8 Dec 2020 17:02

Tgt Ion: 43 Resp: 5521

Ion Ratio Lower Upper

43 100

58 33.8 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

2000

1500

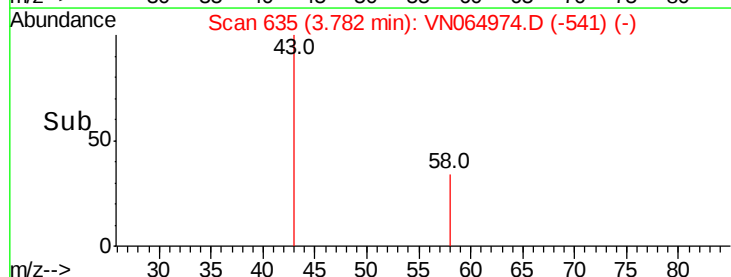
1000

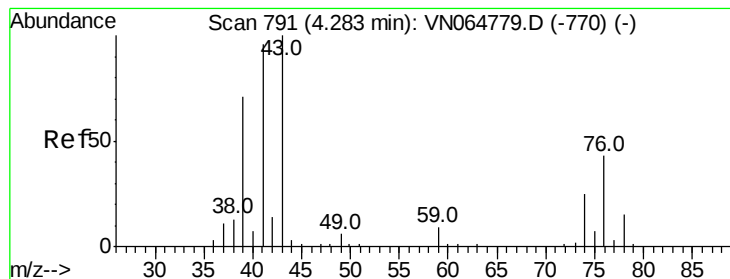
500

0

3.70 3.75 3.80 3.85

Time-->





#18

Methyl Acetate

Concen: 0.303 ug/l

RT: 4.28 min Scan# 789

Delta R.T. -0.01 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

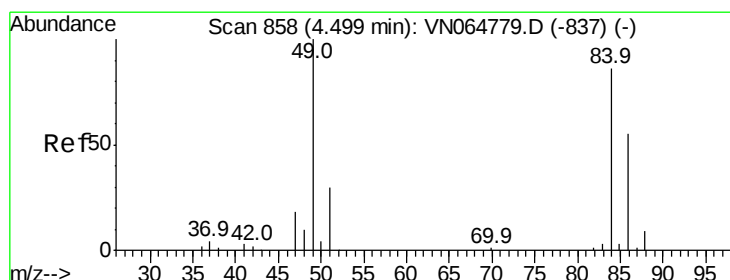
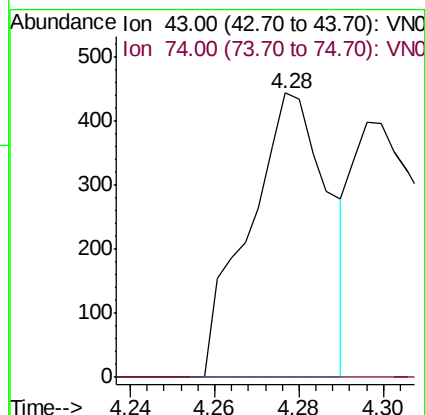
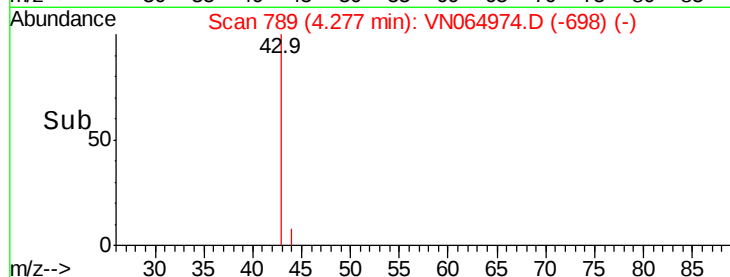
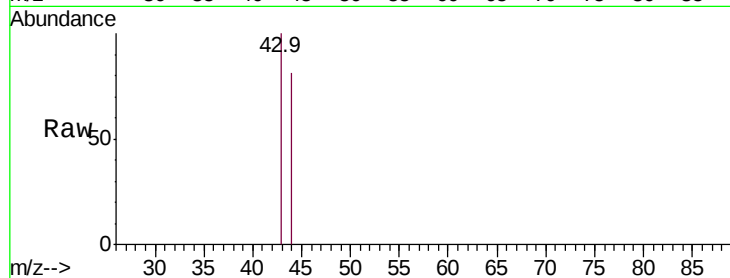
PB133456ZHE#11

Tot Ion: 43 Resp: 572

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



#20

Methylene Chloride

Concen: 2.687 ug/l

RT: 4.50 min Scan# 858

Delta R.T. 0.00 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

Tgt Ion: 84 Resp: 5281

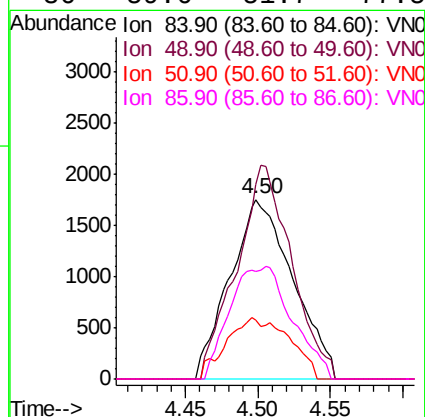
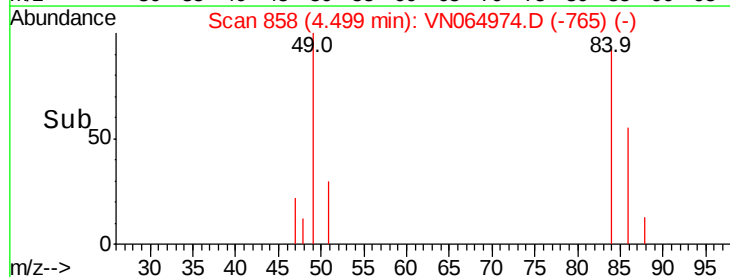
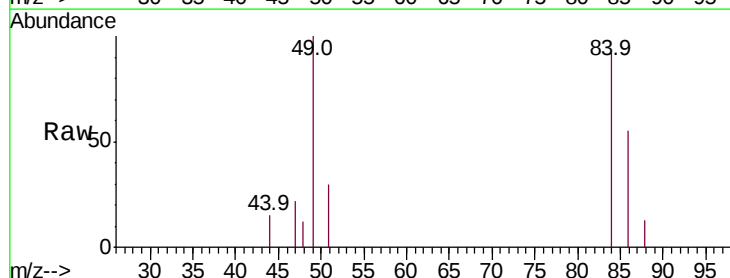
Ion Ratio Lower Upper

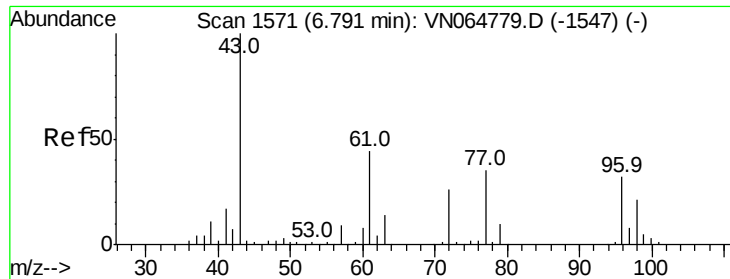
84 100

49 108.3 93.4 140.0

51 32.6 28.2 42.4

86 59.6 51.7 77.5

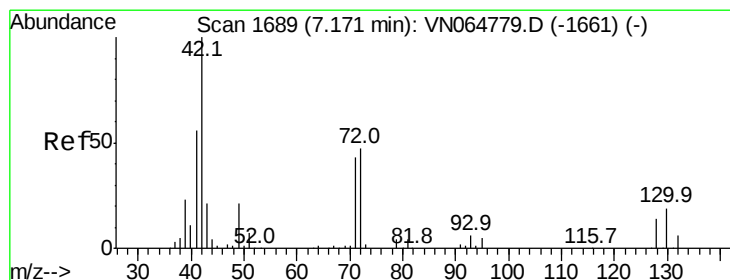
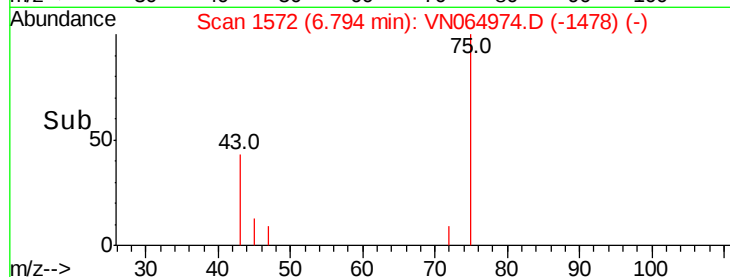
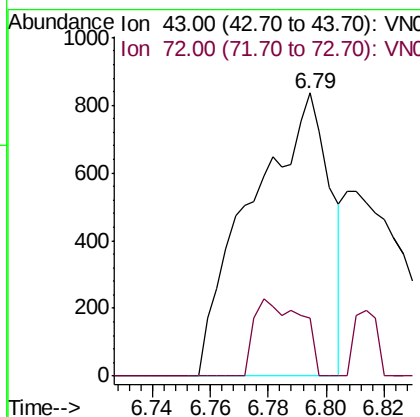
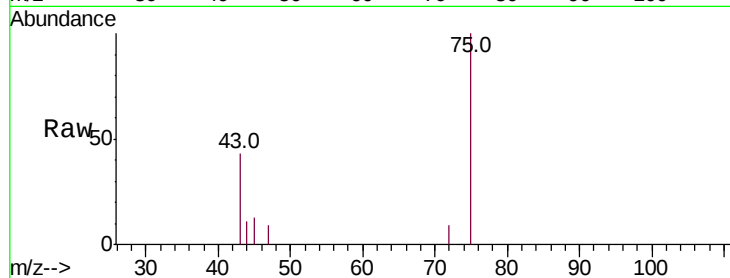




#25
2-Butanone
Concen: 1.548 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN064974.D
Acq: 8 Dec 2020 17:02

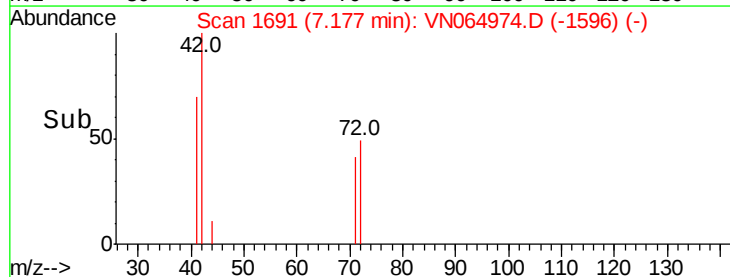
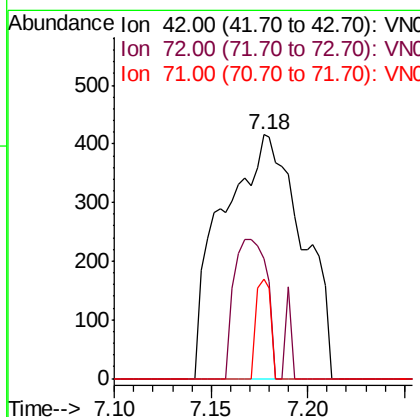
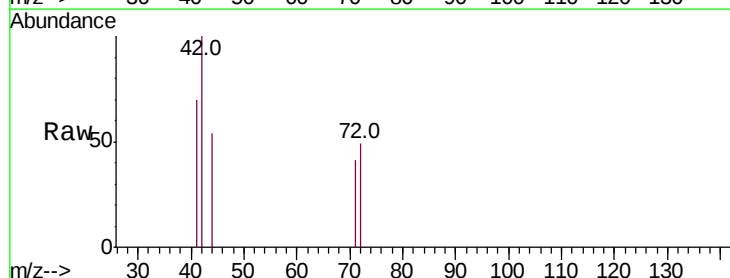
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#11

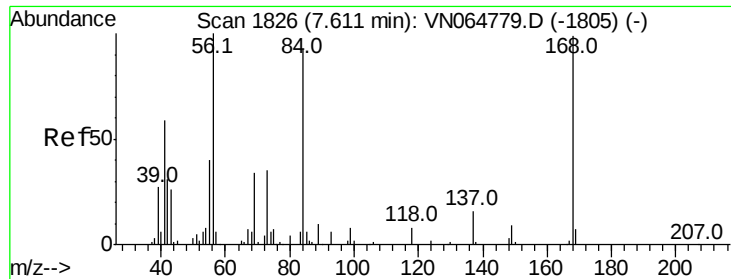
Tot Ion: 43 Resp: 1574
Ion Ratio Lower Upper
43 100
72 20.5 21.0 31.6#



#29
Tetrahydrofuran
Concen: 1.692 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.01 min
Lab File: VN064974.D
Acq: 8 Dec 2020 17:02

Tgt Ion: 42 Resp: 1188
Ion Ratio Lower Upper
42 100
72 23.3 36.6 54.8#
71 7.8 33.6 50.4#

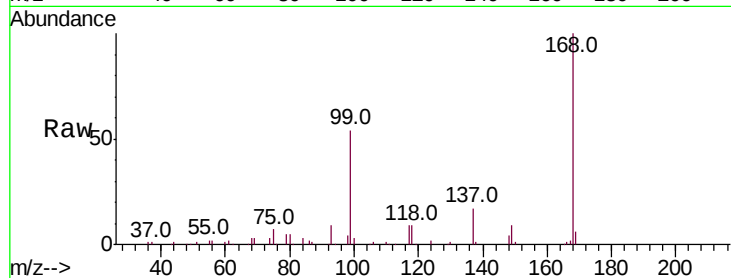




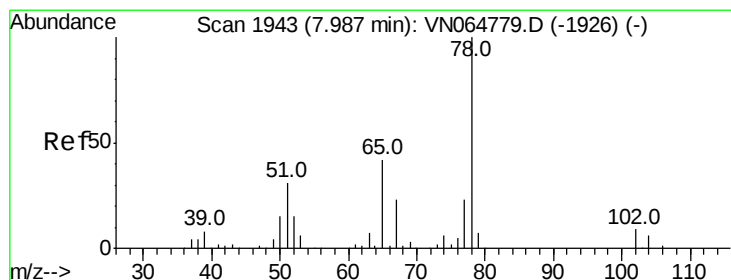
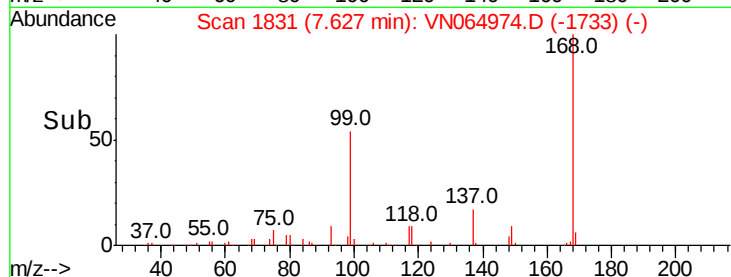
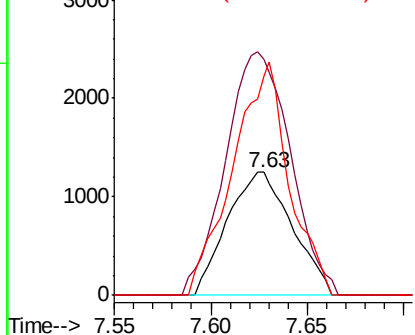
#31
Cyclohexane
Concen: 1.095 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064974.D
Acq: 8 Dec 2020 17:02

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#11

Tot Ion: 56 Resp: 2911
Ion Ratio Lower Upper
56 100
69 191.5 27.5 41.3#
84 177.5 73.9 110.9#

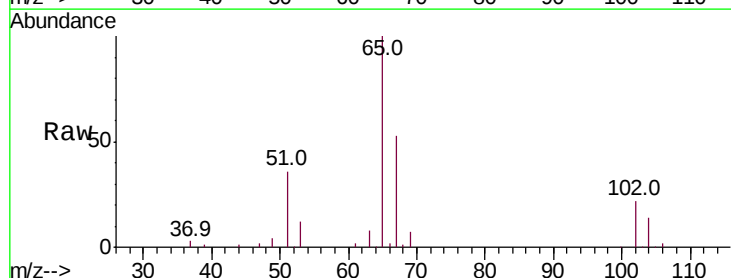


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

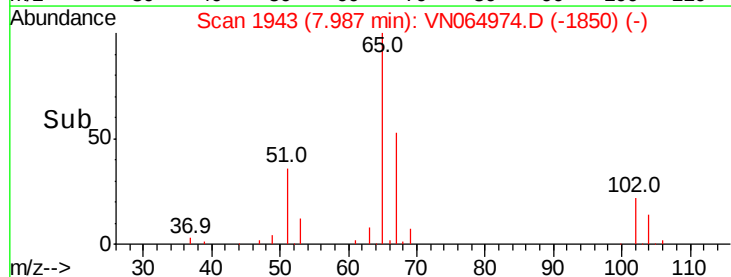
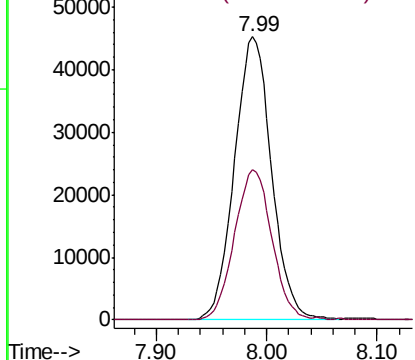


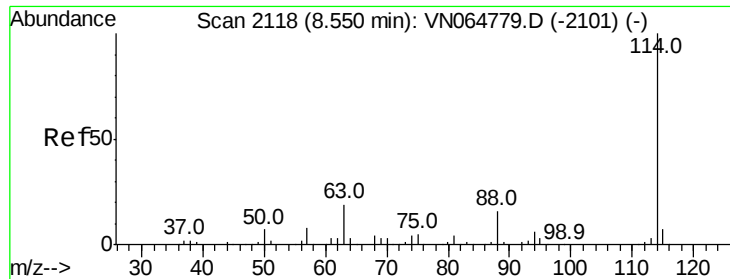
#33
1,2-Dichloroethane-d4
Concen: 55.265 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064974.D
Acq: 8 Dec 2020 17:02

Tgt Ion: 65 Resp: 105456
Ion Ratio Lower Upper
65 100
67 53.5 0.0 108.2



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

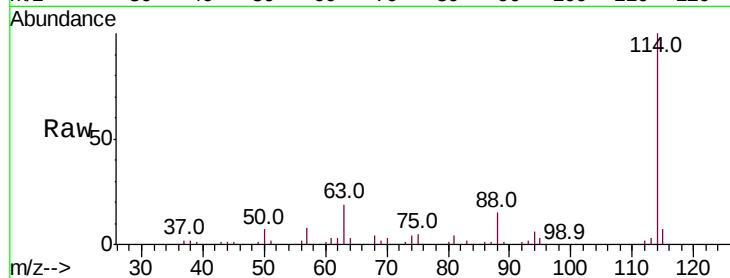




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064974.D
 Acq: 8 Dec 2020 17:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#11

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	38.6
88	15.4	0.0	32.6

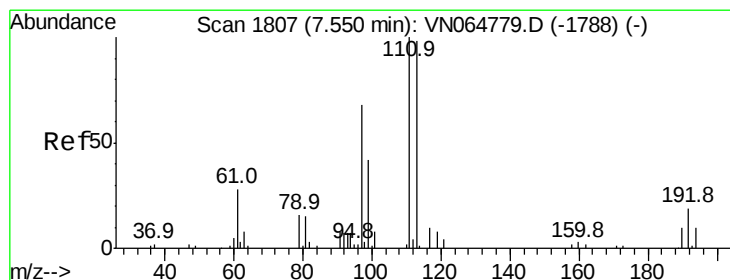
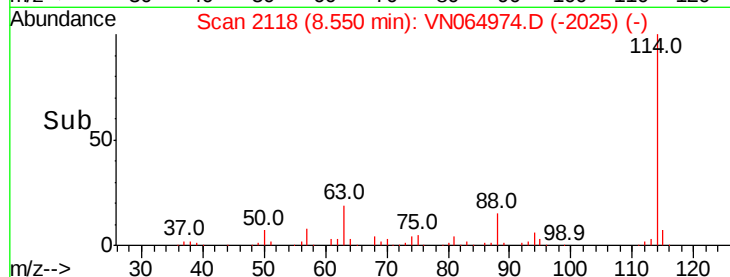
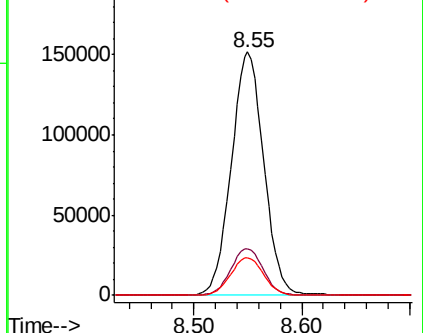


Abundance

Ion 113.90 (113.60 to 114.60): V

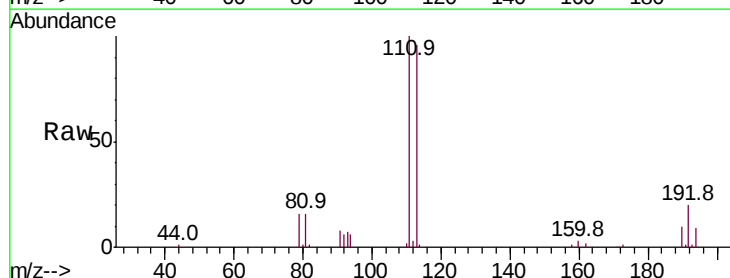
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 52.043 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064974.D
 Acq: 8 Dec 2020 17:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.6	122.4
192	20.2	16.2	24.2

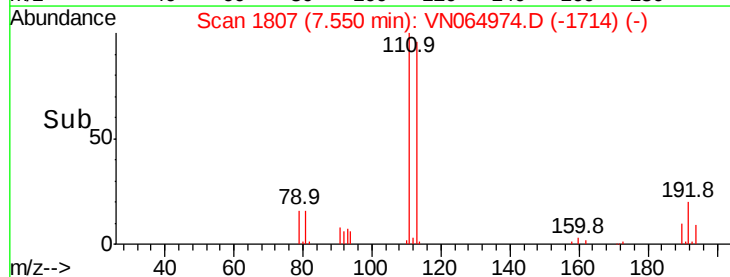
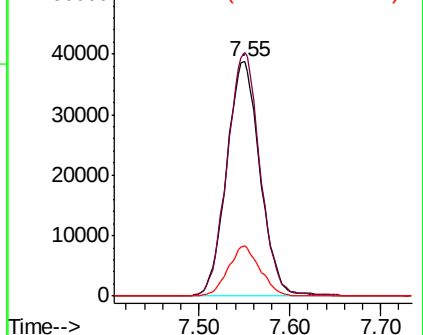


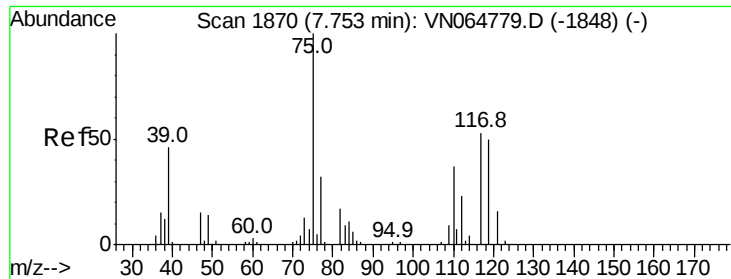
Abundance

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

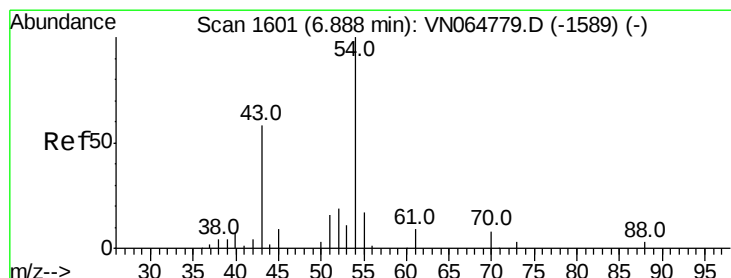
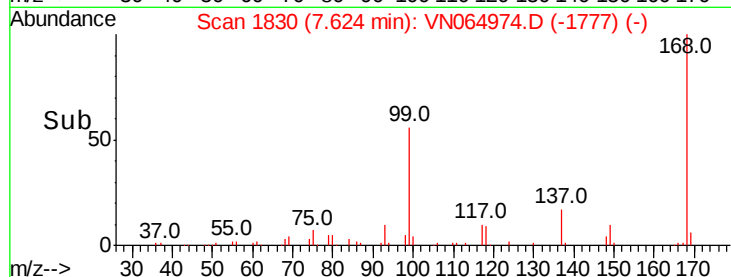
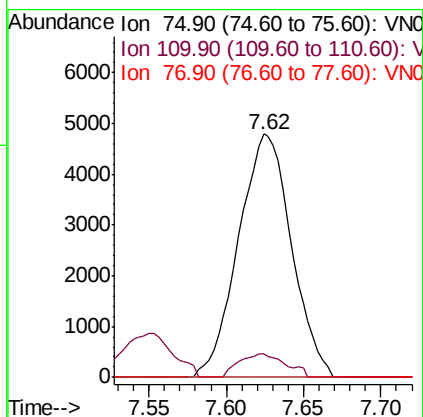
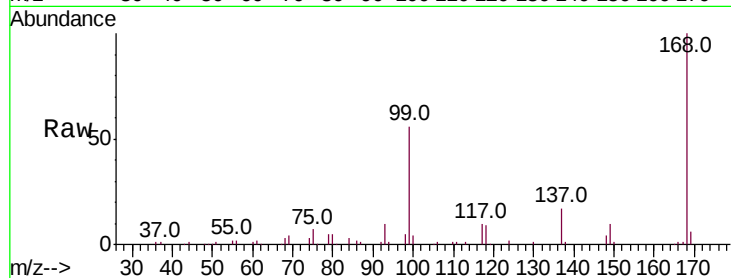




#36
 1,1-Dichloropropene
 Concen: 3.865 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064974.D
 Acq: 8 Dec 2020 17:02

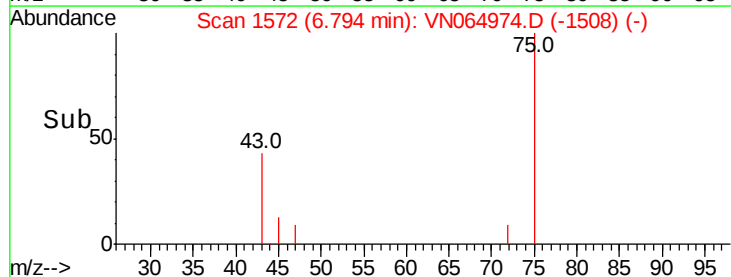
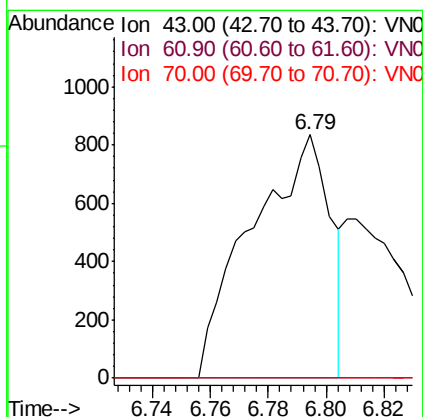
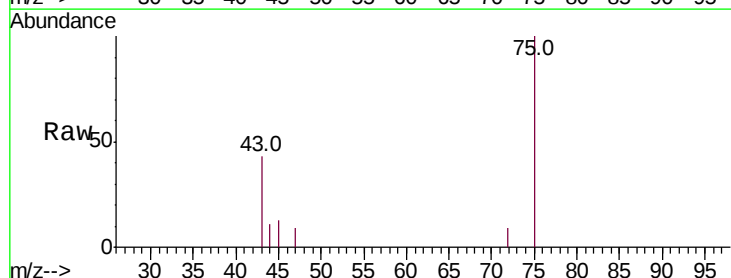
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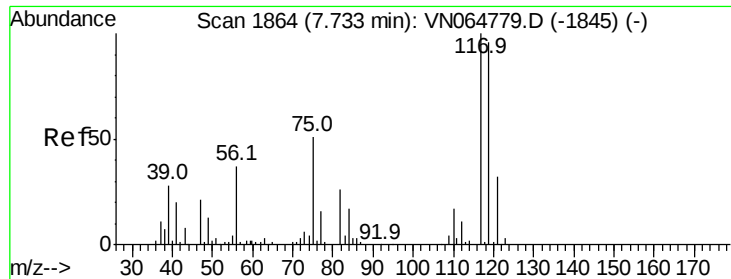
Tot Ion: 75 Resp: 11396
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.8 53.3#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 0.554 ug/l
 RT: 6.79 min Scan# 1572
 Delta R.T. -0.09 min
 Lab File: VN064974.D
 Acq: 8 Dec 2020 17:02

Tgt Ion: 43 Resp: 1574
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.8 19.2#
 70 0.0 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 5.102 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#11

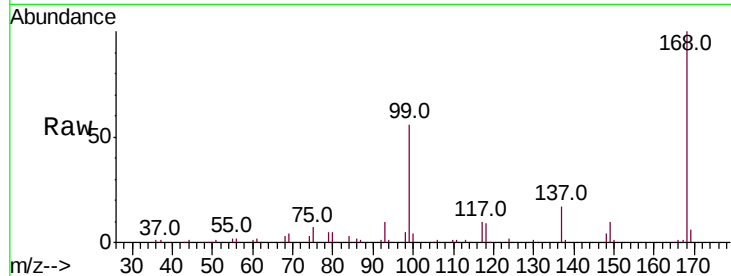
Tot Ion:117 Resp: 15654

Ion Ratio Lower Upper

117 100

119 4.5 76.7 115.1#

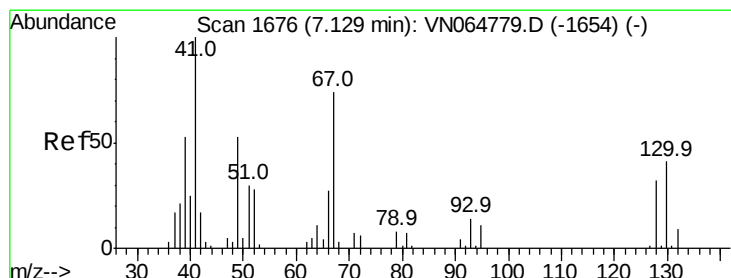
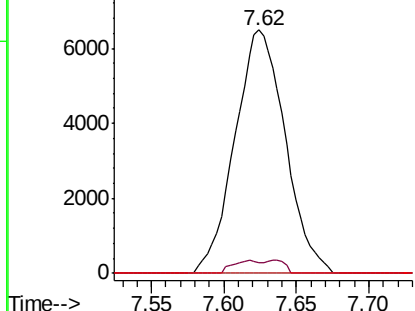
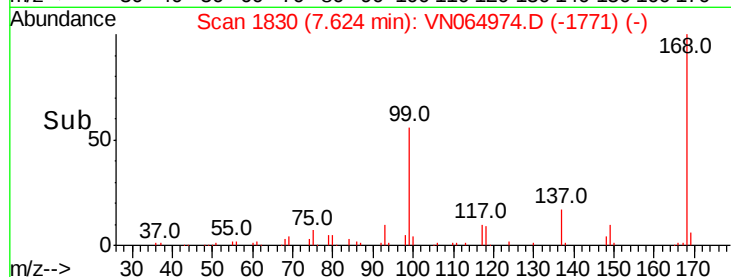
121 0.0 25.4 38.2#



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



#41

Methacrylonitrile

Concen: 0.480 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.05 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

Tgt Ion: 41 Resp: 629

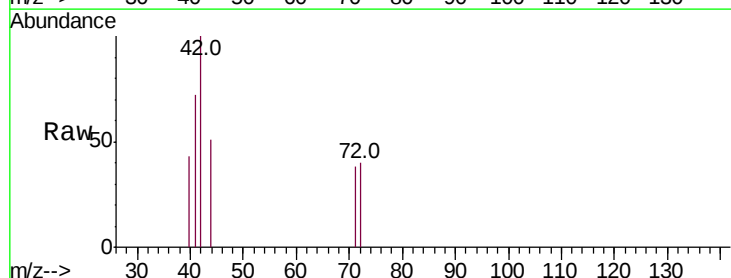
Ion Ratio Lower Upper

41 100

39 4.8 51.0 76.6#

67 0.0 79.8 119.8#

52 0.0 31.5 47.3#

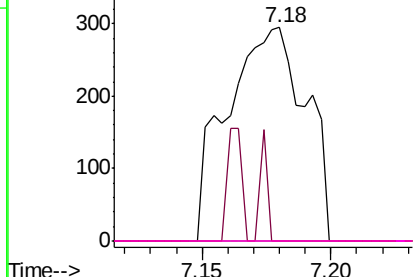
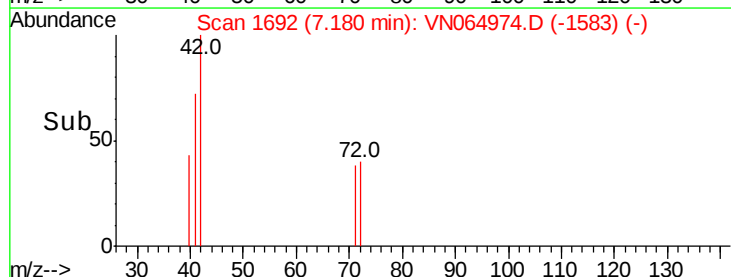


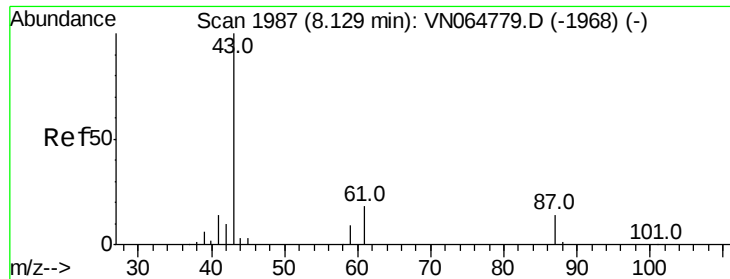
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 4.060 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#11

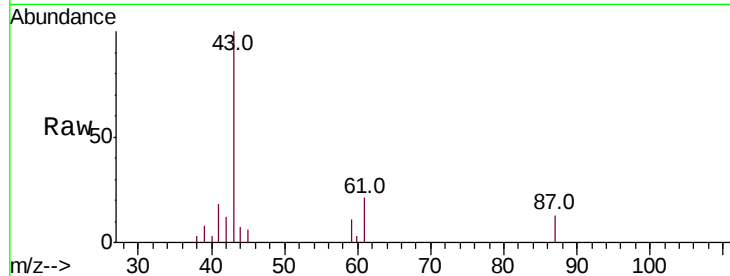
Tot Ion: 43 Resp: 18556

Ion Ratio Lower Upper

43 100

61 16.6 17.2 25.8#

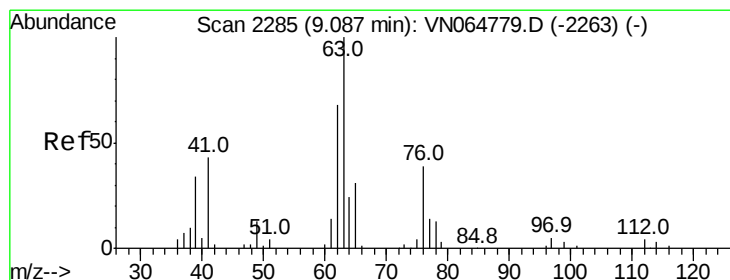
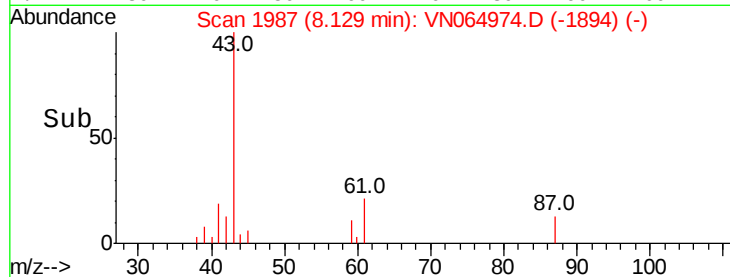
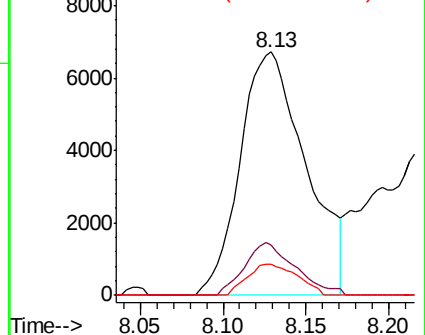
87 9.7 11.4 17.0#



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: 0.483 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064974.D

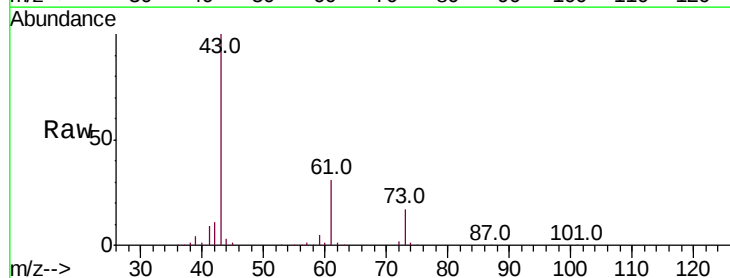
Acq: 8 Dec 2020 17:02

Tgt Ion: 63 Resp: 1131

Ion Ratio Lower Upper

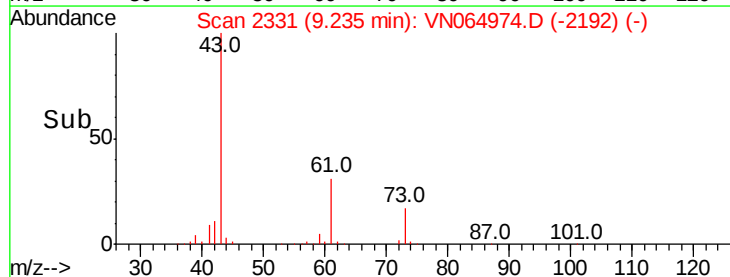
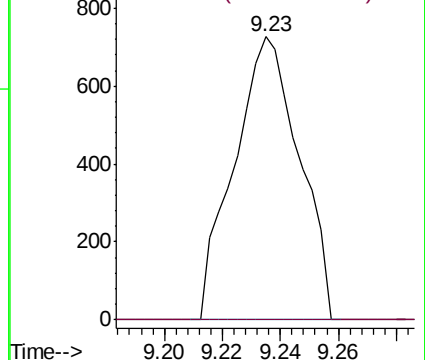
63 100

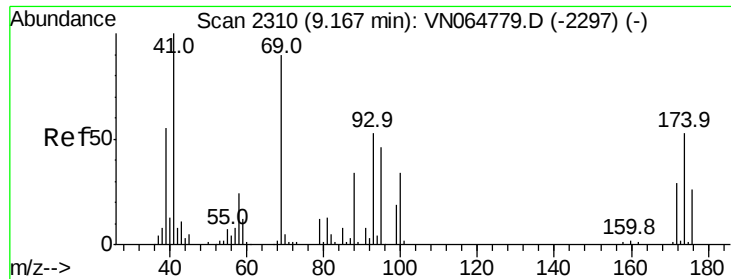
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

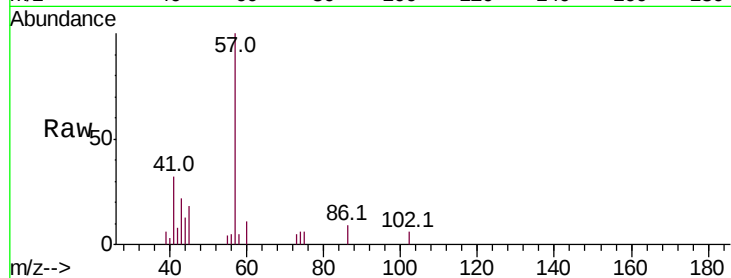




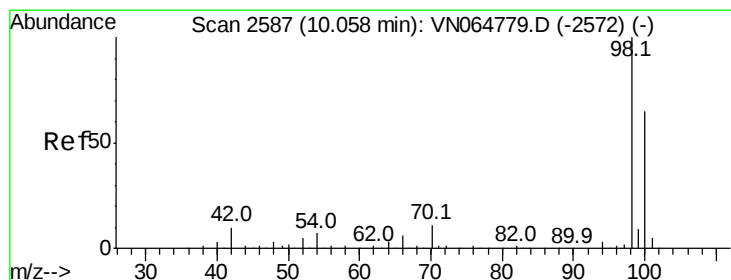
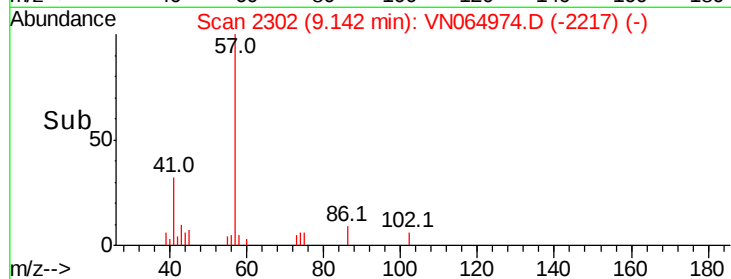
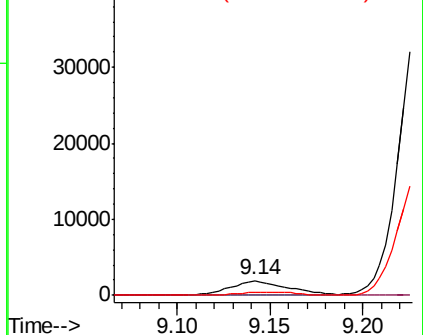
#48
Methvl methacrylate
Concen: 1.871 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN064974.D
Acq: 8 Dec 2020 17:02

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#11

Tot Ion: 41 Resp: 4086
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

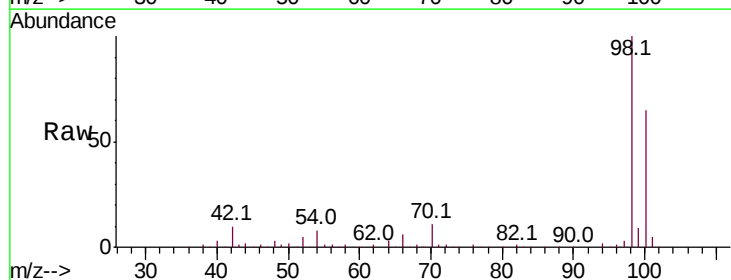


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

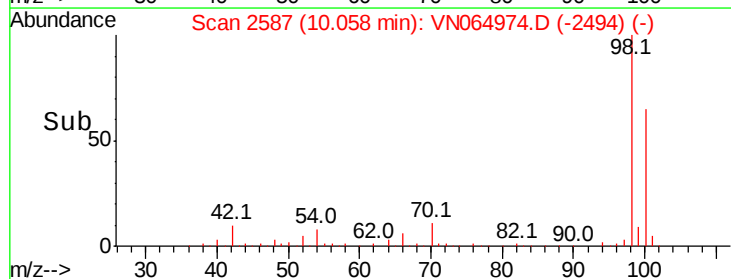
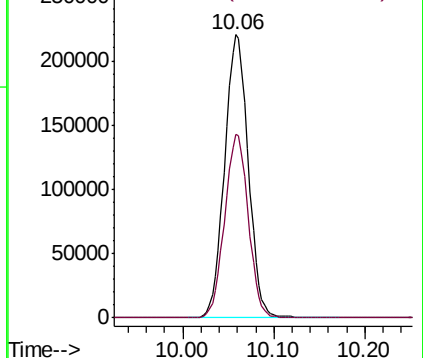


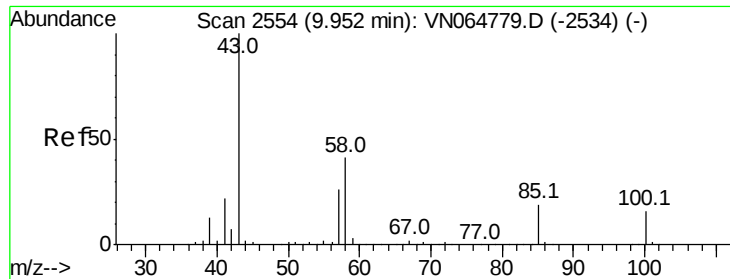
#50
Toluene-d8
Concen: 51.281 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064974.D
Acq: 8 Dec 2020 17:02

Tgt Ion: 98 Resp: 398845
Ion Ratio Lower Upper
98 100
100 64.5 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: 1.213 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

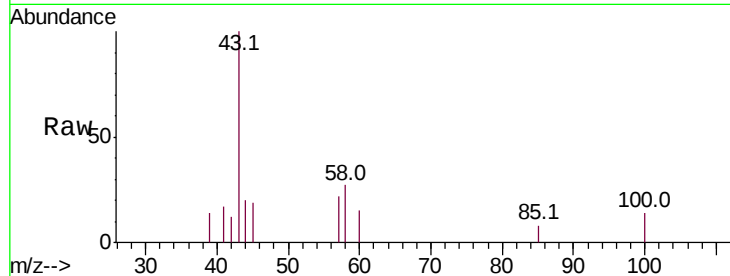
PB133456ZHE#11

Tot Ion: 43 Resp: 3327

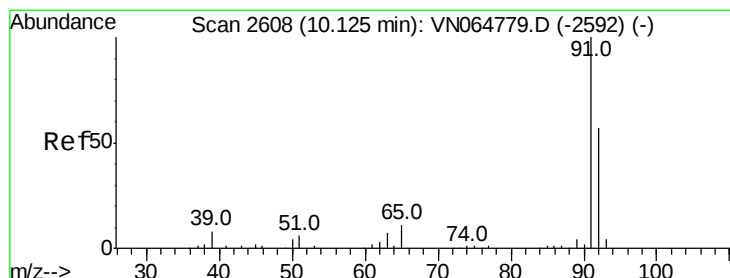
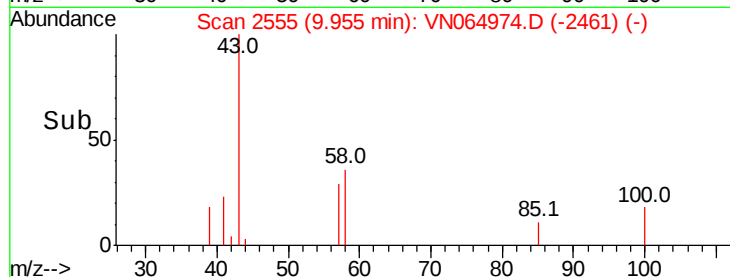
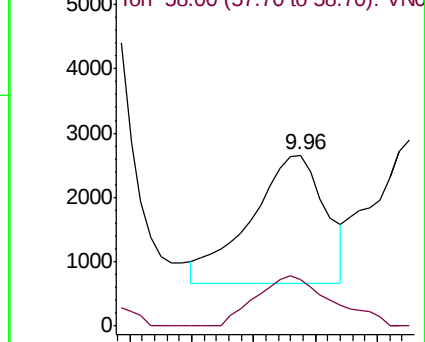
Ion Ratio Lower Upper

43 100

58 40.1 32.4 48.6



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



#52

Toluene

Concen: 0.266 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064974.D

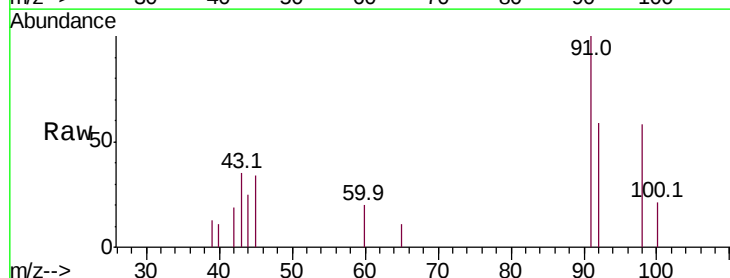
Acq: 8 Dec 2020 17:02

Tgt Ion: 92 Resp: 1478

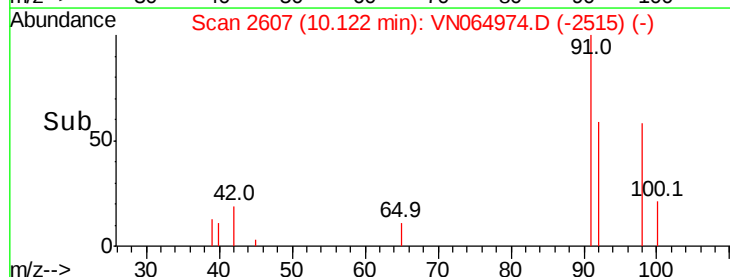
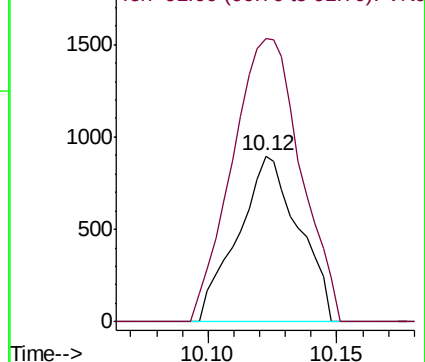
Ion Ratio Lower Upper

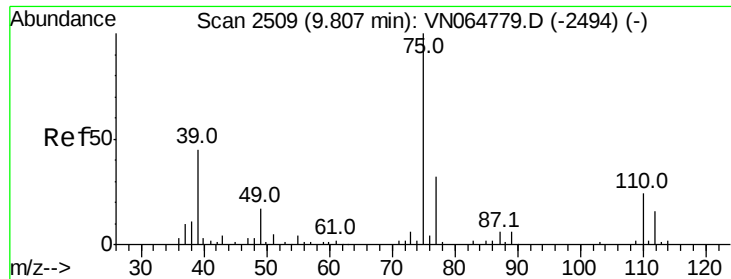
92 100

91 192.3 139.1 208.7



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

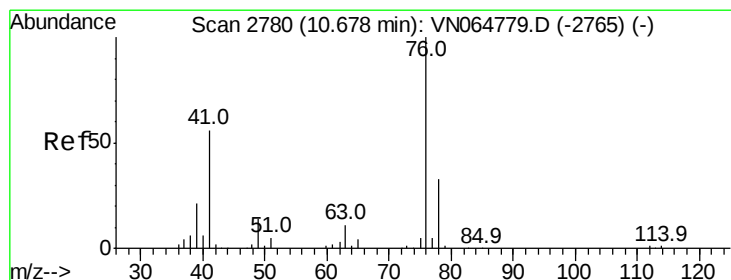
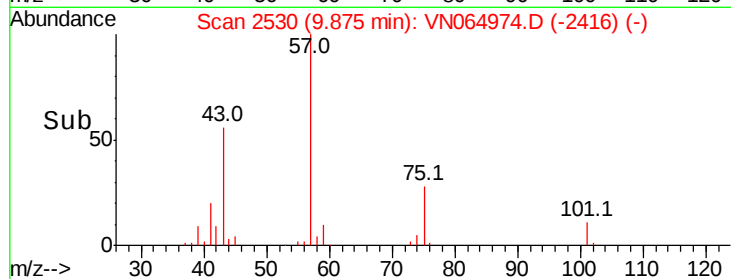
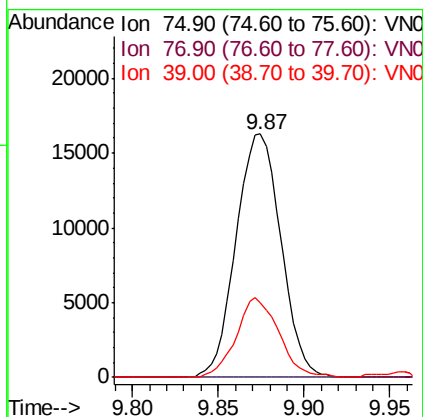
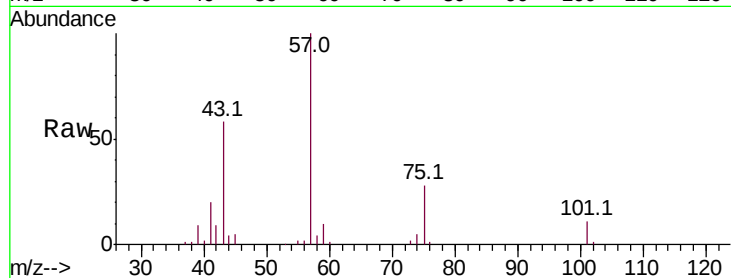




#54
 cis-1,3-Dichloropropene
 Concen: 7.848 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064974.D
 Acq: 8 Dec 2020 17:02

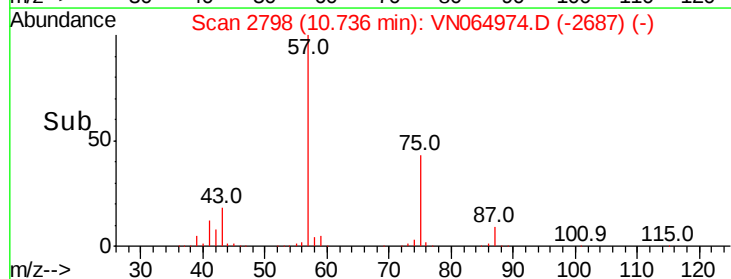
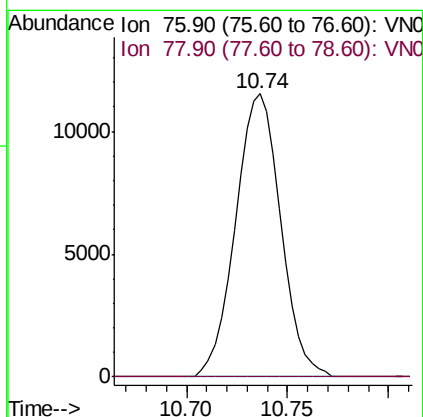
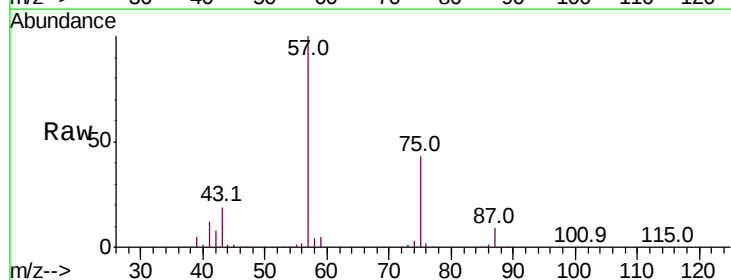
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#11

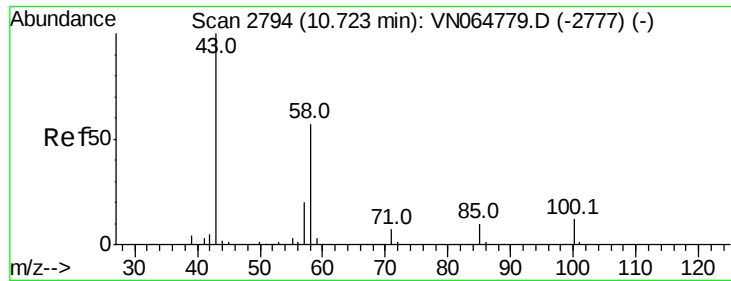
Tot Ion: 75 Resp: 29470
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 30.6 35.6 53.4#



#57
 1,3-Dichloropropane
 Concen: 4.794 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064974.D
 Acq: 8 Dec 2020 17:02

Tgt Ion: 76 Resp: 18095
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#





#59

2-Hexanone

Concen: 116.582 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

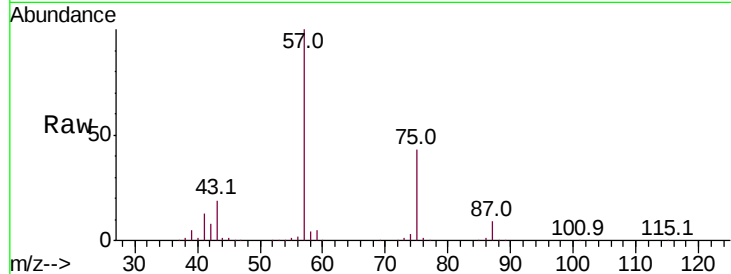
PB133456ZHE#11

Tot Ion: 43 Resp: 230215

Ion Ratio Lower Upper

43 100

58 20.2 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.73

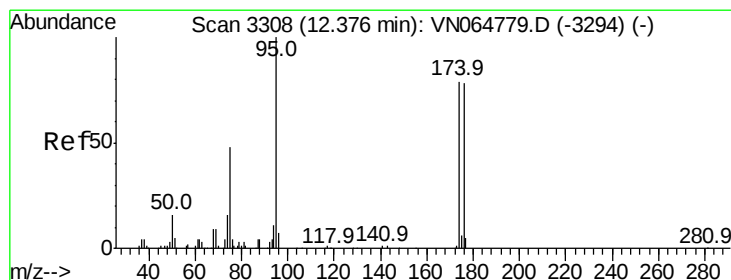
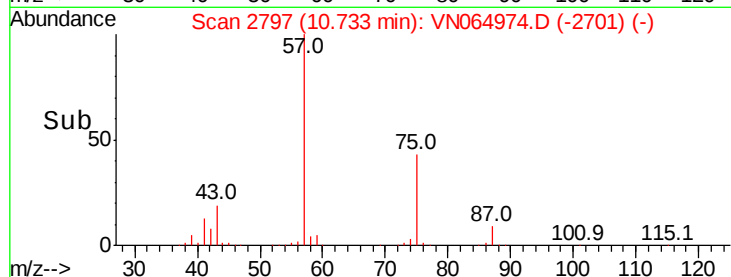
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 53.974 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

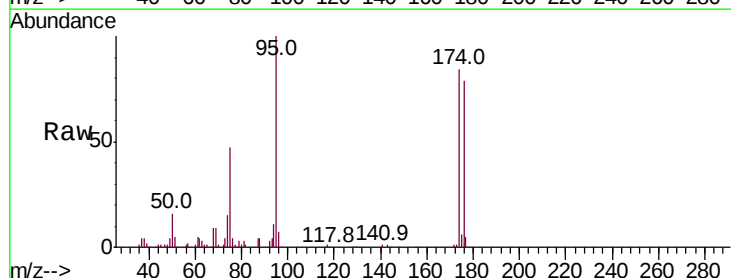
Tgt Ion: 95 Resp: 150235

Ion Ratio Lower Upper

95 100

174 83.5 0.0 160.4

176 78.7 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

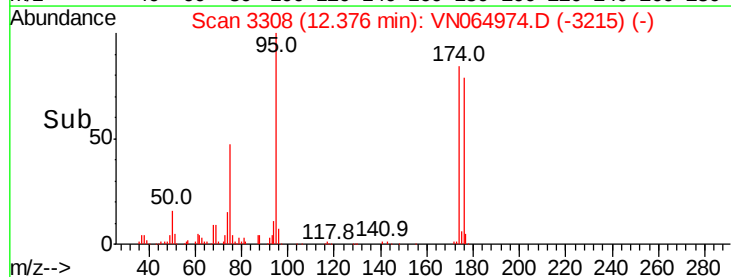
60000

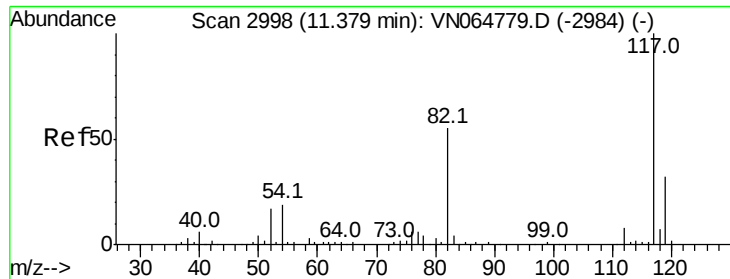
40000

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: VN064974.D

Acq: 8 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#11

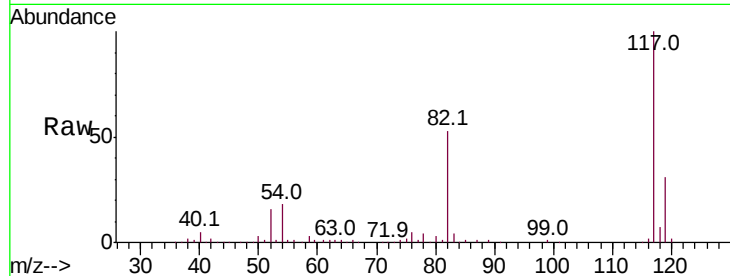
Tot Ion:117 Resp: 333543

Ion Ratio Lower Upper

117 100

82 53.3 44.2 66.2

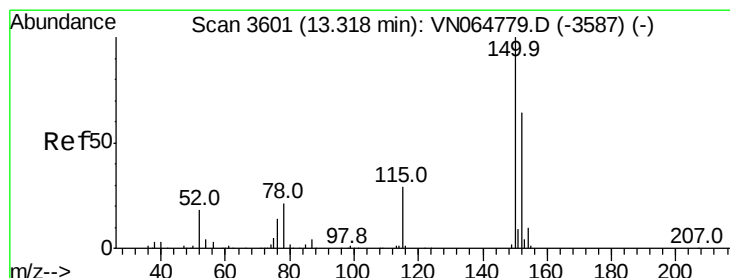
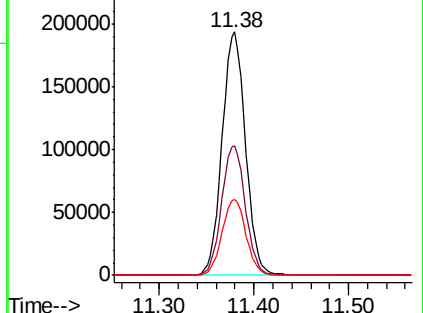
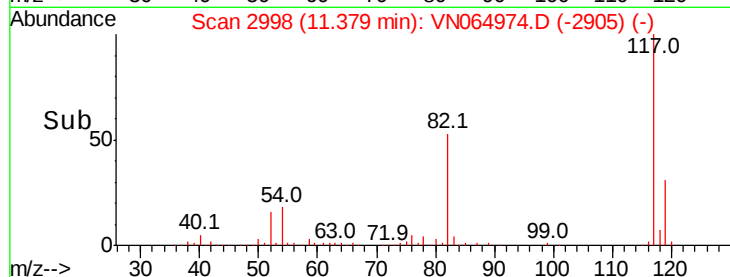
119 31.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

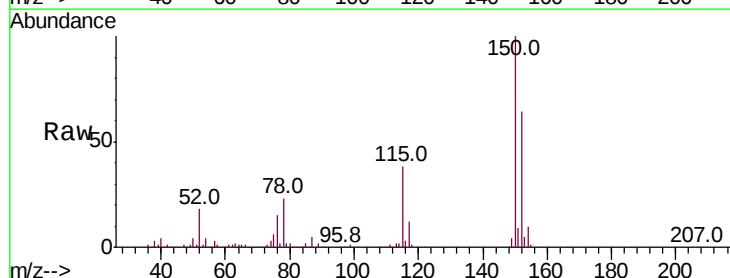
Tgt Ion:152 Resp: 143360

Ion Ratio Lower Upper

152 100

115 58.7 29.7 89.1

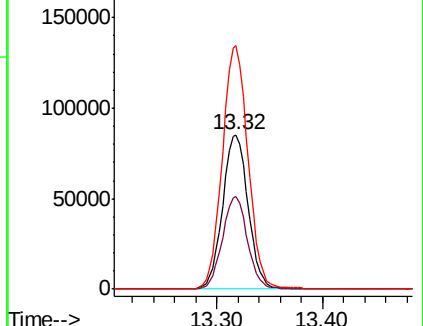
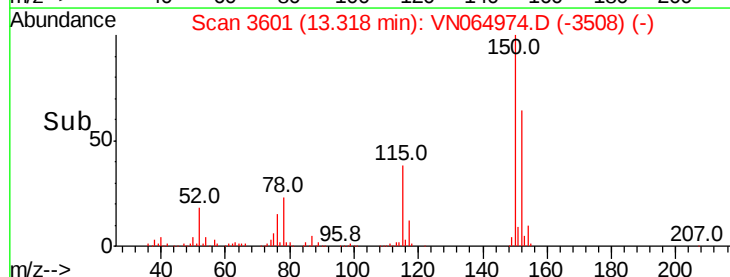
150 158.5 0.0 350.6

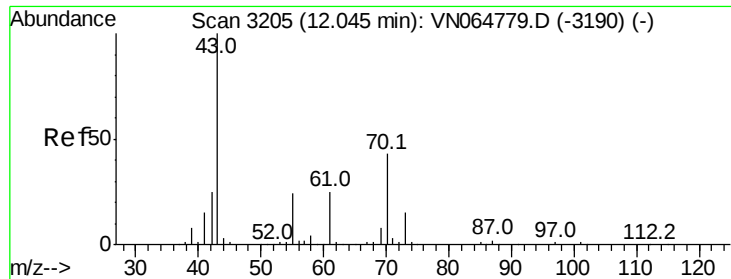


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.691 ug/l

RT: 11.85 min Scan# 3144

Delta R.T. -0.20 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#11

Tot Ion: 43 Resp: 10560

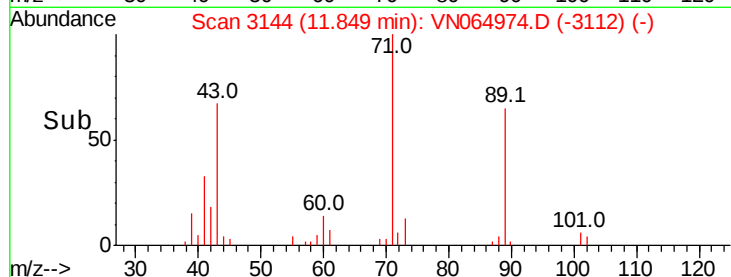
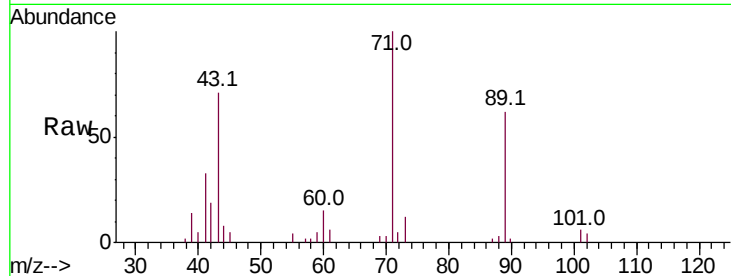
Ion Ratio Lower Upper

43 100

70 2.5 34.5 51.7#

55 4.2 20.4 30.6#

61 10.0 20.0 30.0#

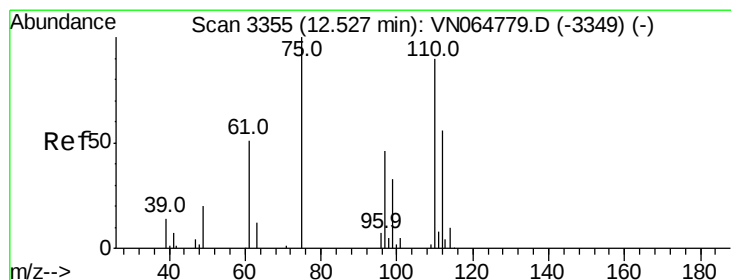
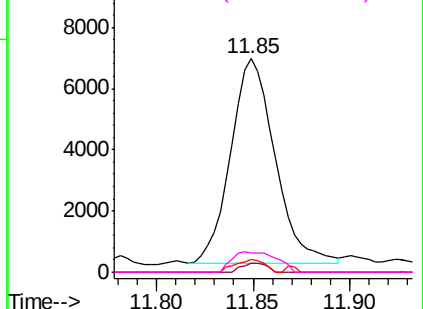


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 23.291 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064974.D

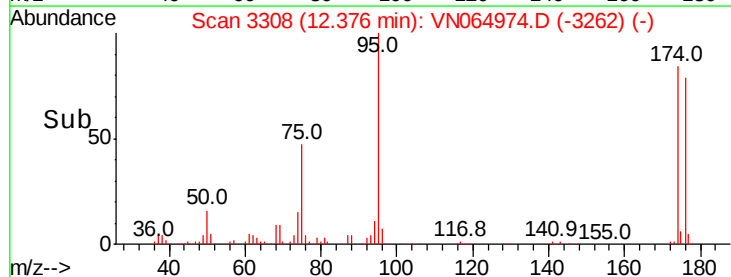
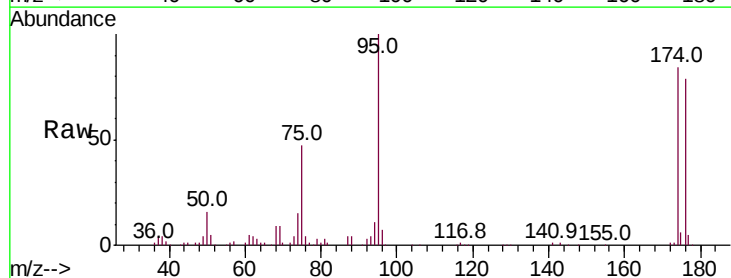
Acq: 8 Dec 2020 17:02

Tgt Ion: 75 Resp: 71909

Ion Ratio Lower Upper

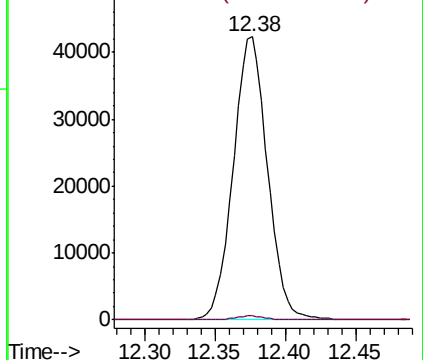
75 100

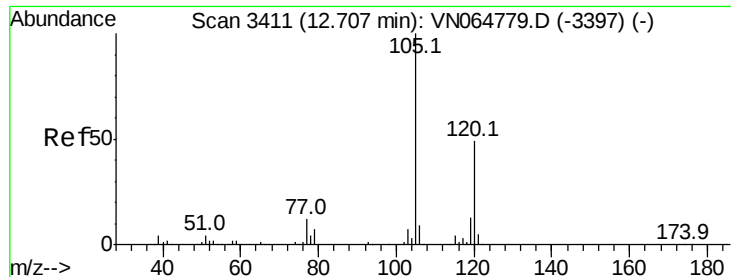
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.223 ug/l

RT: 12.70 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

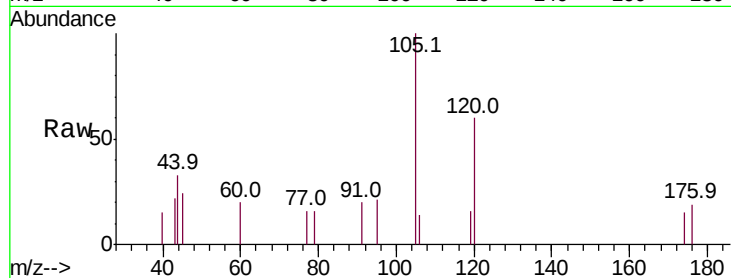
PB133456ZHE#11

Tot Ion:105 Resp: 1846

Ion Ratio Lower Upper

105 100

120 60.8 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

1200

1000

800

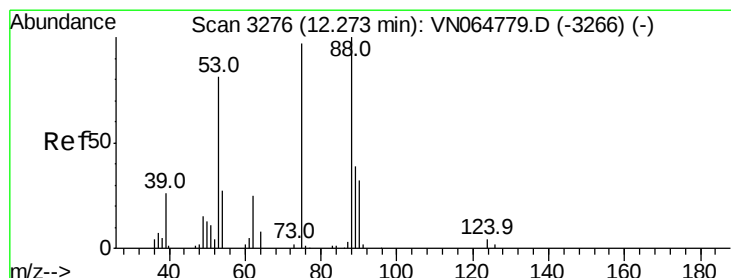
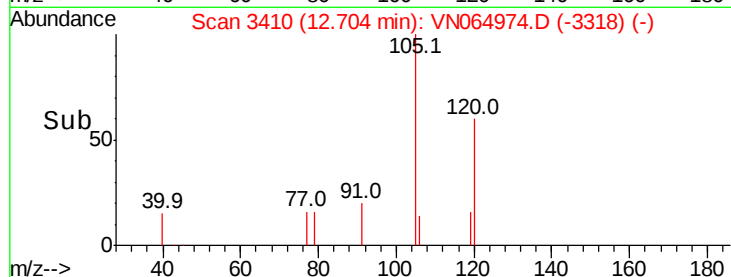
600

400

200

0

Time--> 12.65 12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 63.836 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064974.D

Acq: 8 Dec 2020 17:02

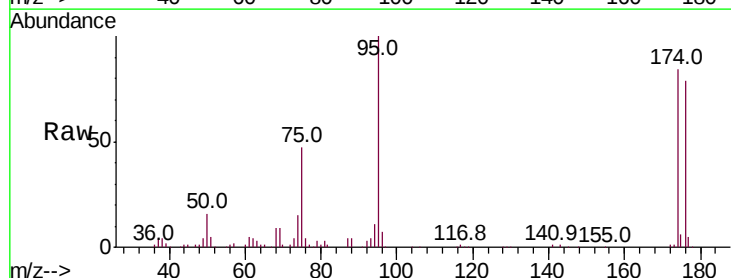
Tgt Ion: 75 Resp: 71909

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

50000

40000

30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45

