

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064975.D
 Acq On : 8 Dec 2020 17:26
 Operator : JC/MD
 Sample : PB133456ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#12

Quant Time: Dec 09 06:53:32 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	167492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	325216	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	339975	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139317	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	109401	56.18	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	112.36%		
35) Dibromofluoromethane	7.55	113	100357	51.57	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.14%		
50) Toluene-d8	10.06	98	407748	51.28	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.56%		
62) 4-Bromofluorobenzene	12.38	95	152413	53.56	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	107.12%		

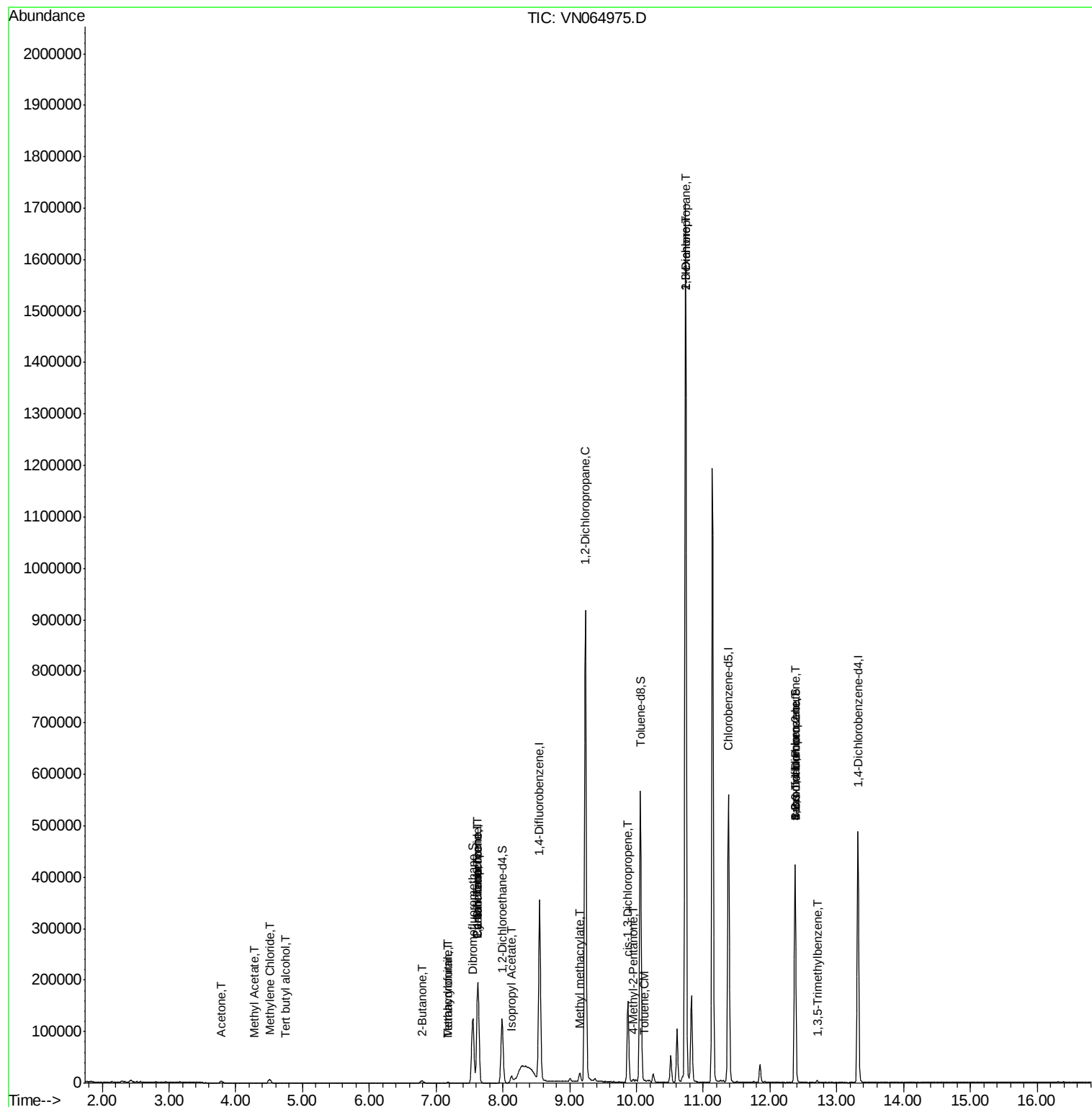
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	64	0.211	ug/l #	73
16) Acetone	3.79	43	5578	8.714	ug/l	95
18) Methyl Acetate	4.28	43	535	0.278	ug/l #	50
20) Methylene Chloride	4.51	84	5579	2.781	ug/l	90
25) 2-Butanone	6.80	43	743	0.716	ug/l #	67
29) Tetrahydrofuran	7.17	42	1113	1.554	ug/l #	62
31) Cyclohexane	7.62	56	1436	0.529	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11491	3.812	ug/l #	48
38) Carbon Tetrachloride	7.63	117	16472	5.252	ug/l #	17
41) Methacrylonitrile	7.18	41	475	0.355	ug/l #	27
43) Isopropyl Acetate	8.13	43	17884	3.828	ug/l #	93
45) 1,2-Dichloropropane	9.23	63	1118	0.467	ug/l #	43
48) Methyl methacrylate	9.14	41	4280	1.917	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	4193	1.495	ug/l	91
52) Toluene	10.13	92	1415	0.249	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	28873	7.521	ug/l #	62
57) 1,3-Dichloropropane	10.73	76	18019	4.670	ug/l #	42
59) 2-Hexanone	10.74	43	228237	113.058	ug/l #	51
71) Bromoform	12.37	173	1239	0.578	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	71642	23.878	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	2164	0.269	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.37	75	71642	65.444	ug/l #	15

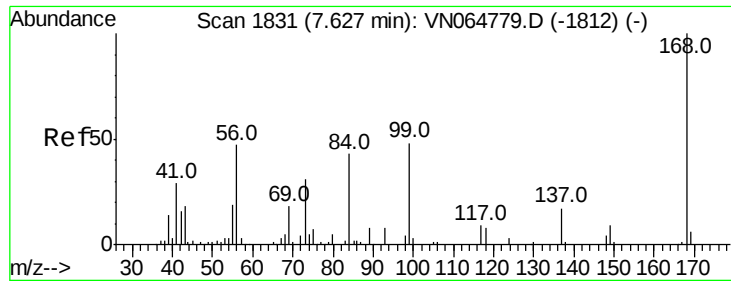
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120820\
Data File : VN064975.D
Acq On : 8 Dec 2020 17:26
Operator : JC/MD
Sample : PB133456ZHE#12
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#12

Quant Time: Dec 09 06:53:32 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

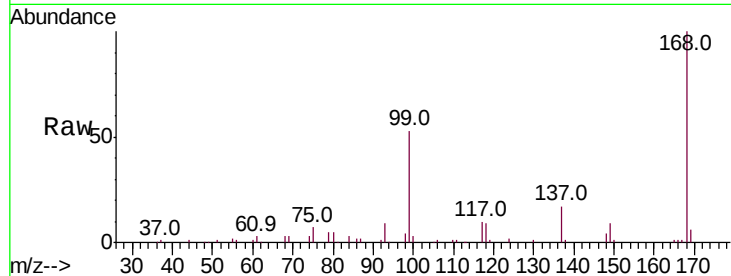
PB133456ZHE#12

Tot Ion:168 Resp: 167492

Ion Ratio Lower Upper

168 100

99 53.3 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

40000

20000

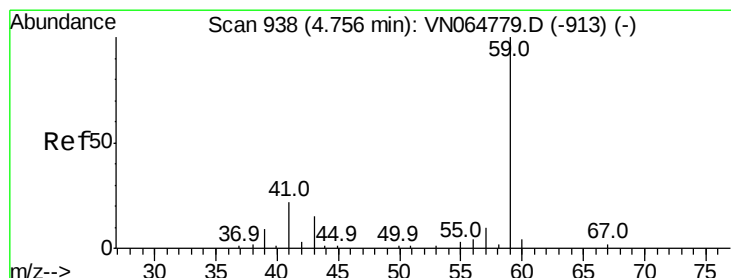
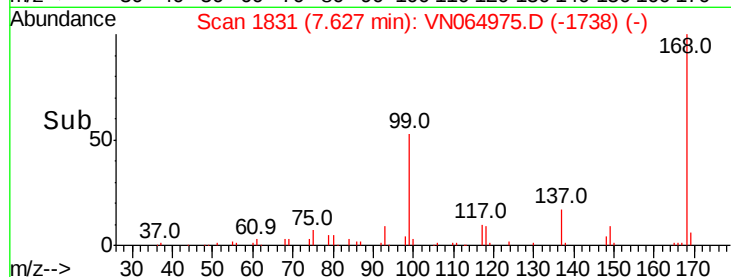
0

Time-->

7.50

7.60

7.70



#11

Tert butyl alcohol

Concen: 0.211 ug/l

RT: 4.76 min Scan# 938

Delta R.T. 0.00 min

Lab File: VN064975.D

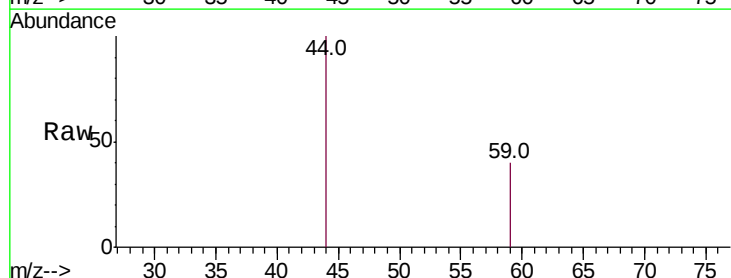
Acq: 8 Dec 2020 17:26

Tgt Ion: 59 Resp: 64

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

200

150

100

50

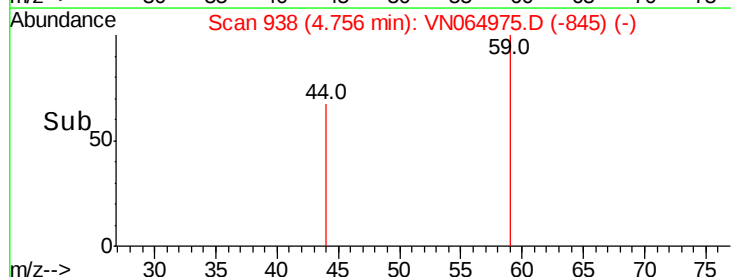
0

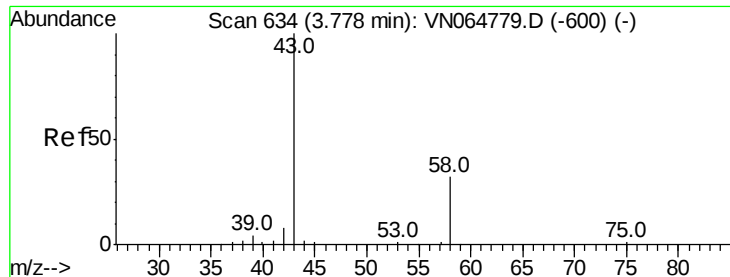
Time-->

4.75

4.76

4.77





#16

Acetone

Concen: 8.714 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

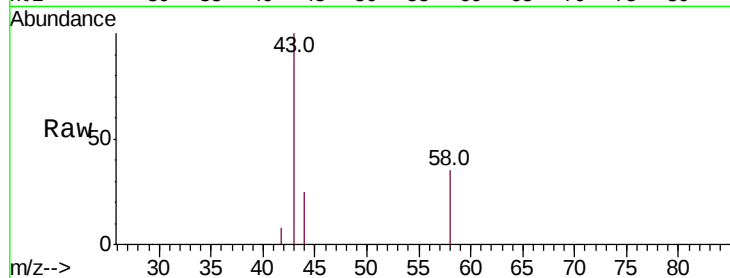
PB133456ZHE#12

Tot Ion: 43 Resp: 5578

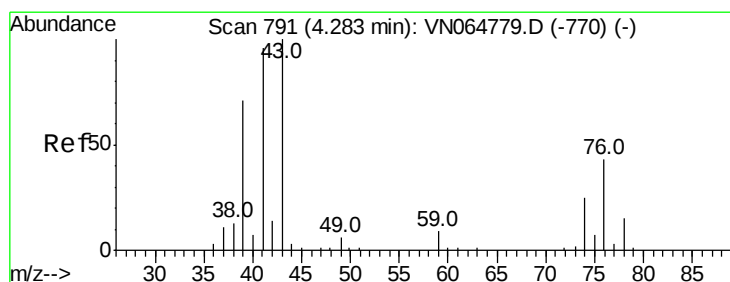
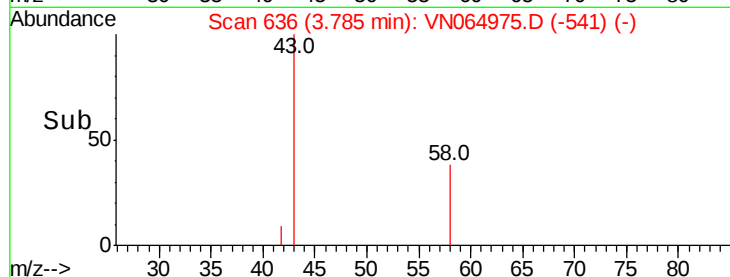
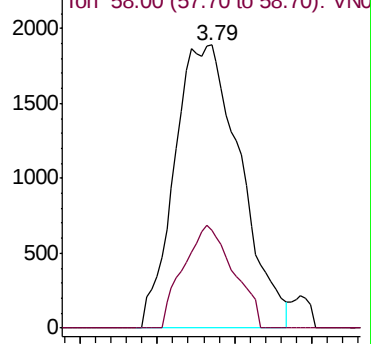
Ion Ratio Lower Upper

43 100

58 34.7 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064975.D (-541) (-)



#18

Methyl Acetate

Concen: 0.278 ug/l

RT: 4.28 min Scan# 789

Delta R.T. -0.01 min

Lab File: VN064975.D

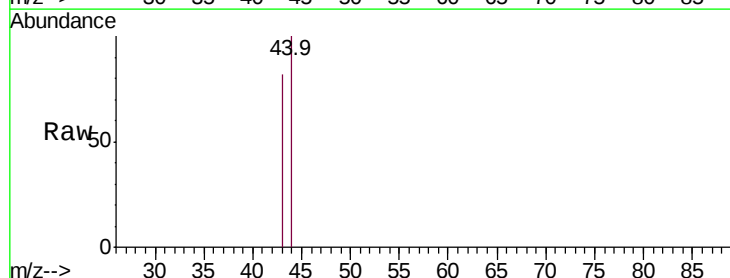
Acq: 8 Dec 2020 17:26

Tgt Ion: 43 Resp: 535

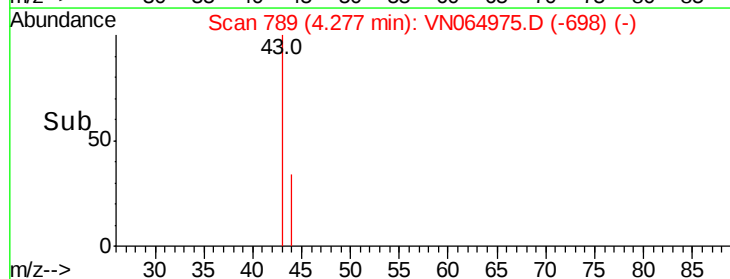
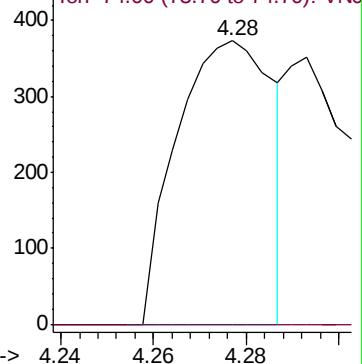
Ion Ratio Lower Upper

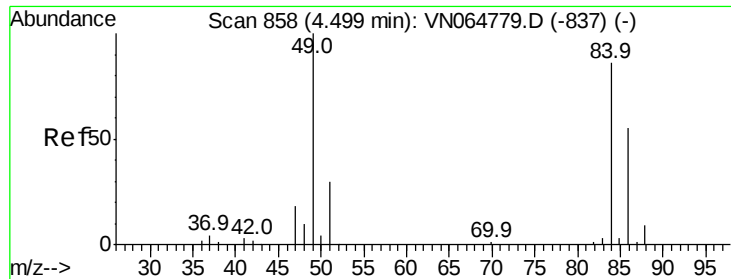
43 100

74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN064975.D (-698) (-)



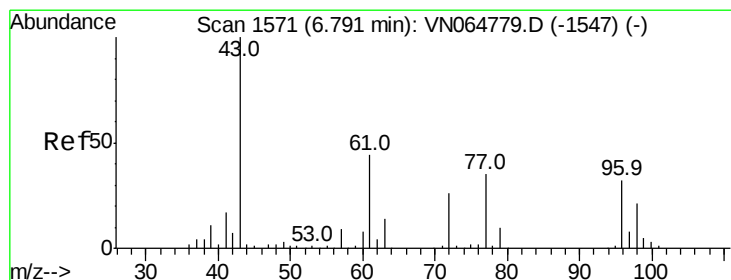
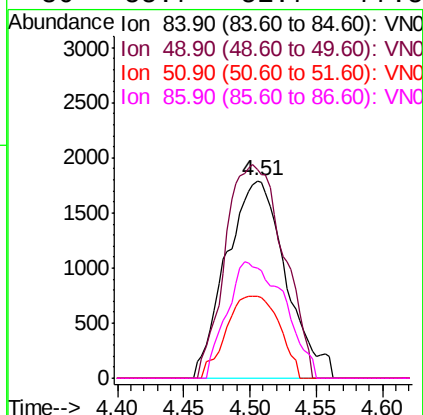
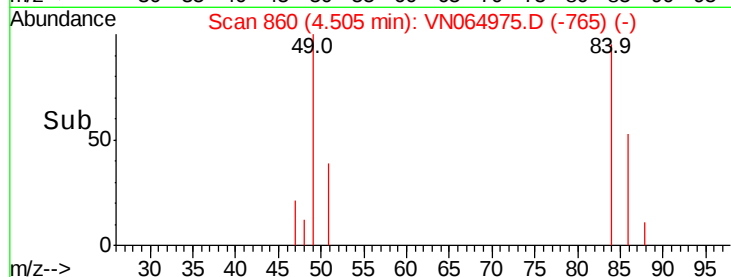
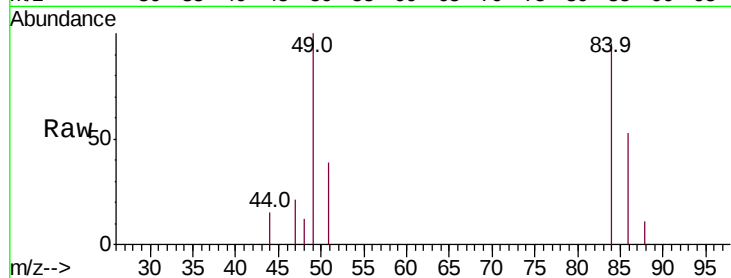


#20
Methvlene Chloride
Concen: 2.781 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#12

Tot Ion: 84 Resp: 5579

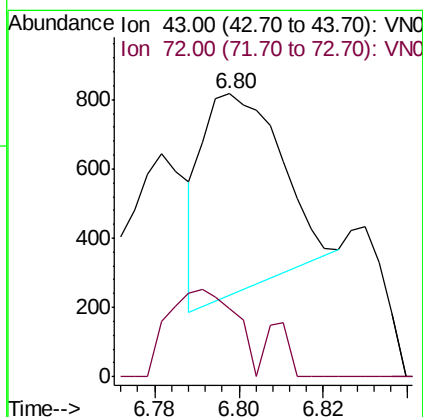
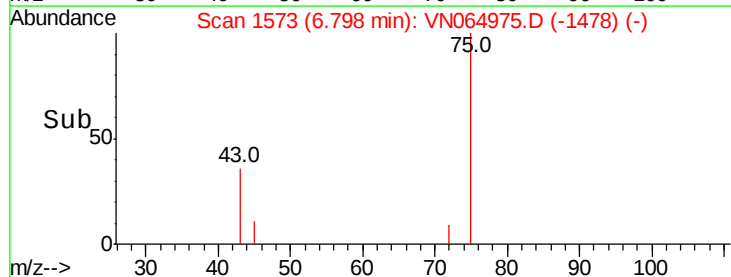
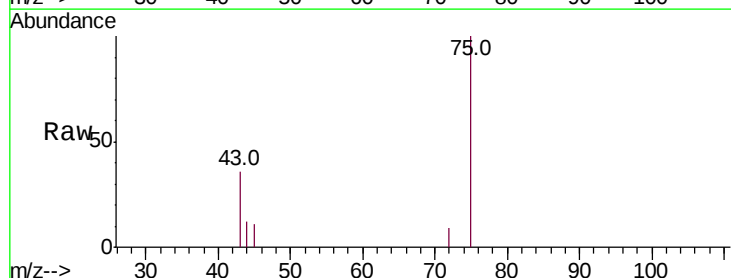
Ion	Ratio	Lower	Upper
84	100		
49	105.8	93.4	140.0
51	41.3	28.2	42.4
86	55.7	51.7	77.5

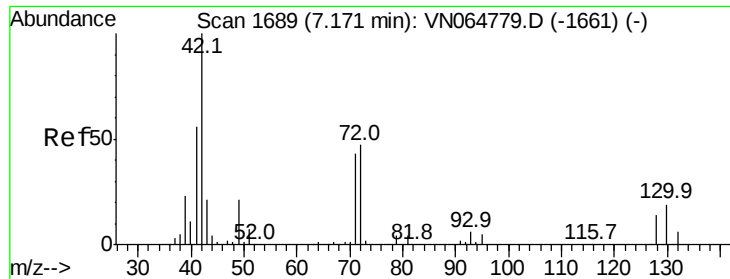


#25
2-Butanone
Concen: 0.716 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

Tgt Ion: 43 Resp: 743

Ion	Ratio	Lower	Upper
43	100		
72	43.3	21.0	31.6#





#29

Tetrahydrofuran

Concen: 1.554 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#12

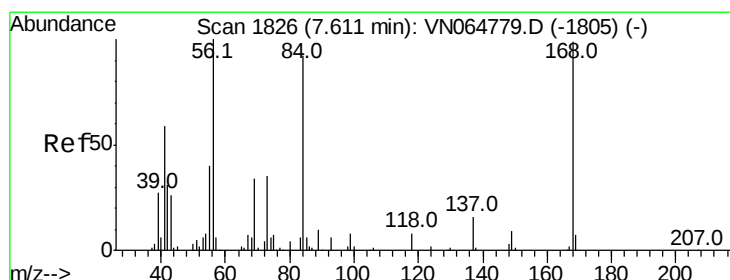
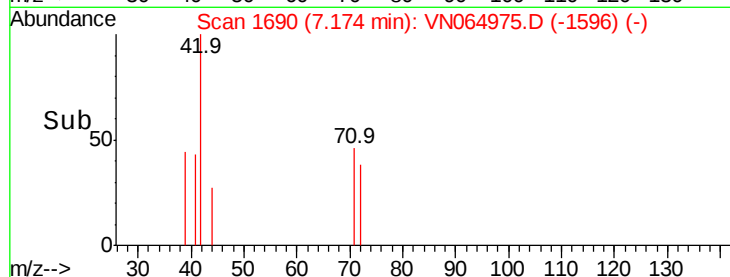
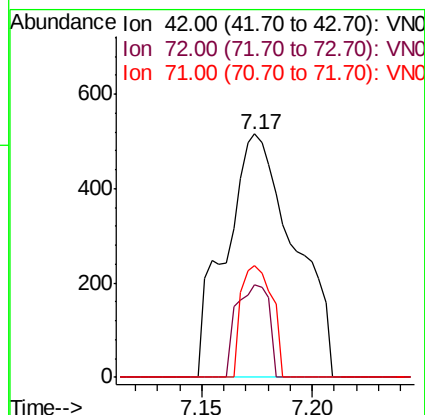
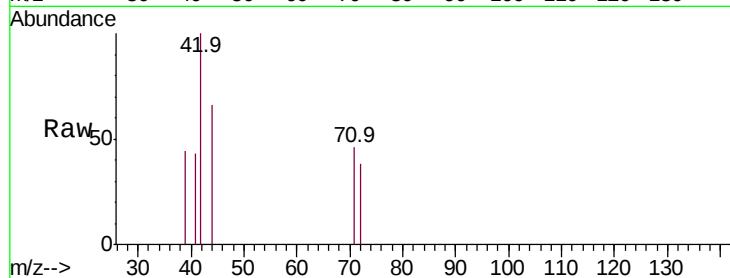
Tot Ion: 42 Resp: 1113

Ion Ratio Lower Upper

42 100

72 18.1 36.6 54.8#

71 20.8 33.6 50.4#



#31

Cyclohexane

Concen: 0.529 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

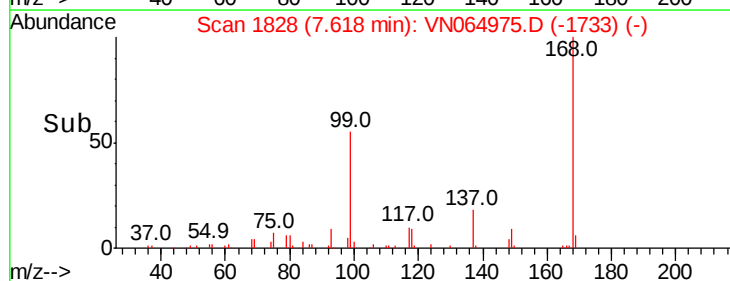
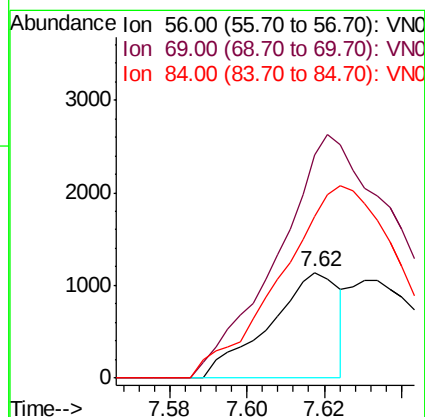
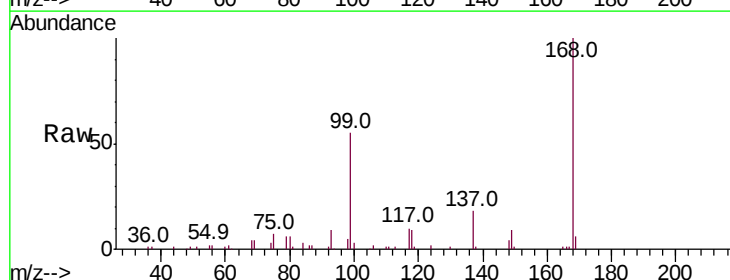
Tgt Ion: 56 Resp: 1436

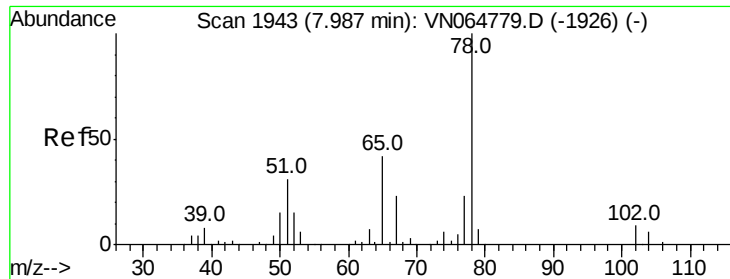
Ion Ratio Lower Upper

56 100

69 211.3 27.5 41.3#

84 153.6 73.9 110.9#





#33

1,2-Dichloroethane-d4

Concen: 56.184 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

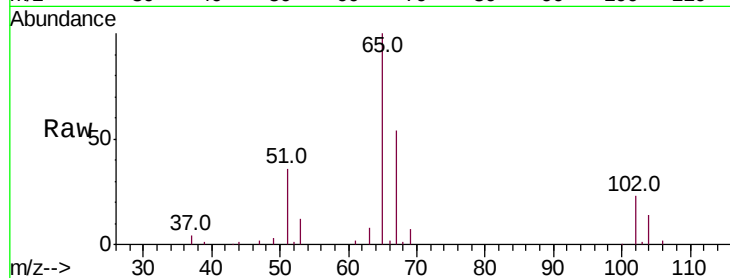
PB133456ZHE#12

Tot Ion: 65 Resp: 109401

Ion Ratio Lower Upper

65 100

67 53.2 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

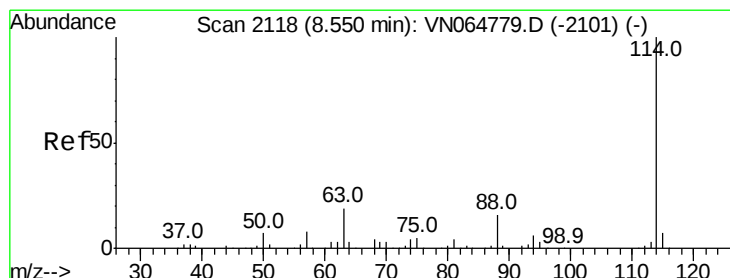
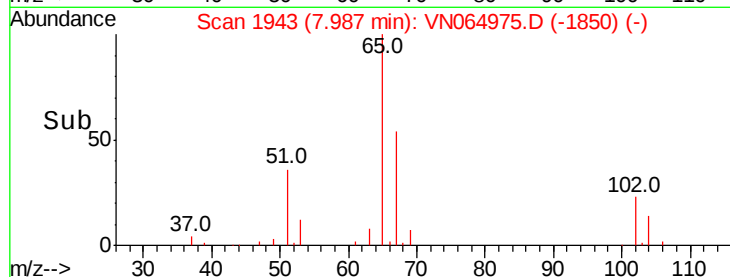
30000

20000

10000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

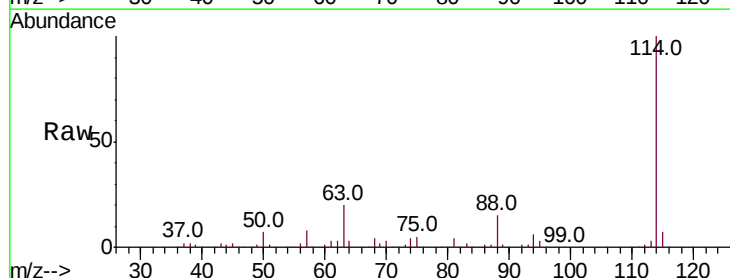
Tgt Ion: 114 Resp: 325216

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.6

88 15.4 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

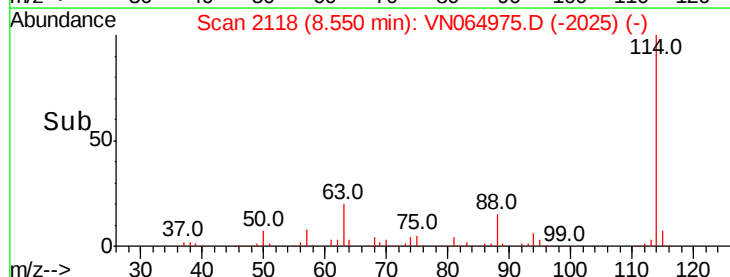
150000

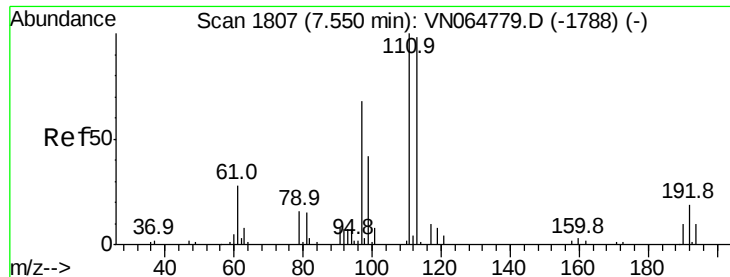
100000

50000

0

Time-->

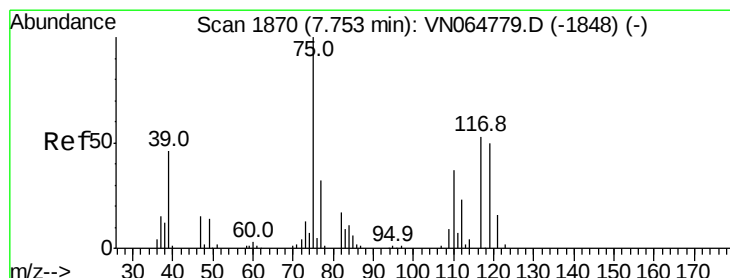
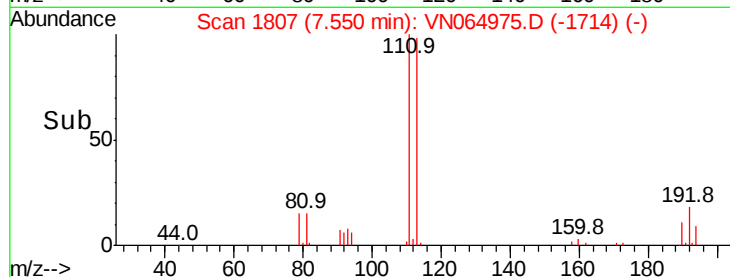
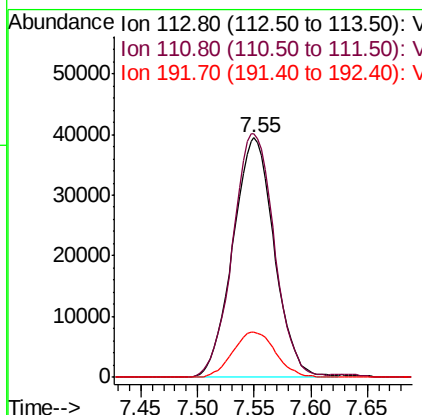
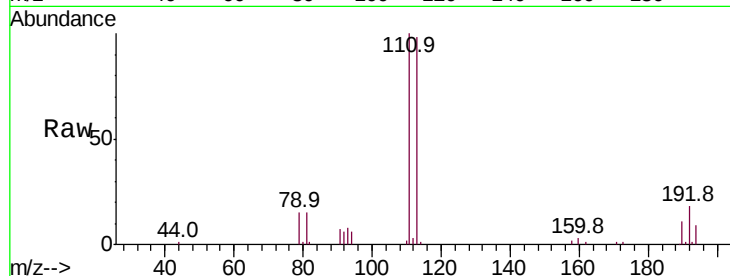




#35
 Dibromofluoromethane
 Concen: 51.571 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064975.D
 Acq: 8 Dec 2020 17:26

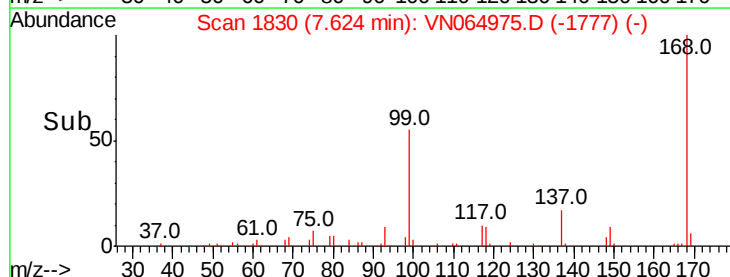
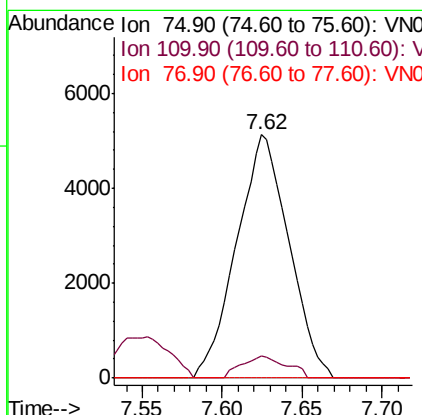
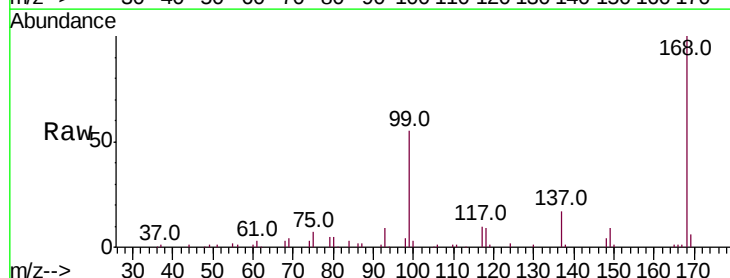
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#12

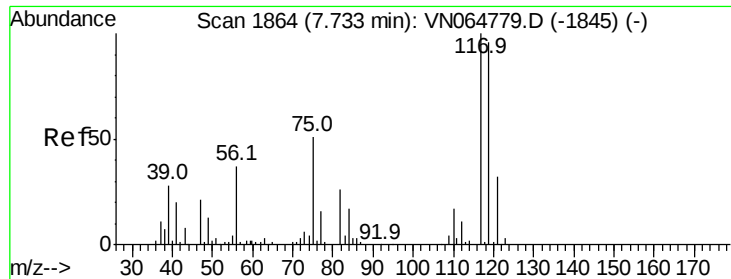
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.6	122.4
192	19.6	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 3.812 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064975.D
 Acq: 8 Dec 2020 17:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	17.8	53.3#
77	0.0	25.0	37.4#

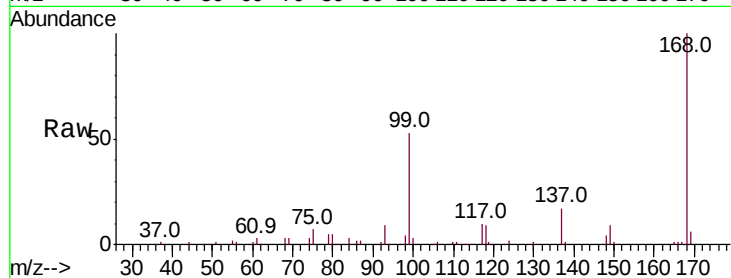




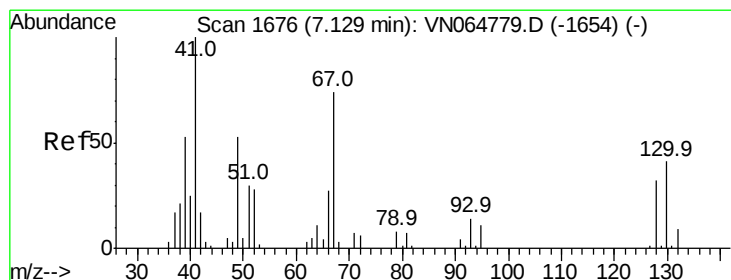
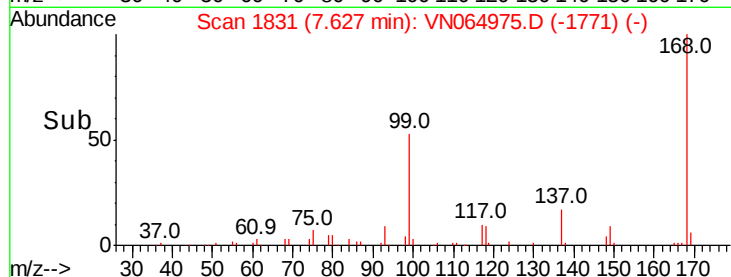
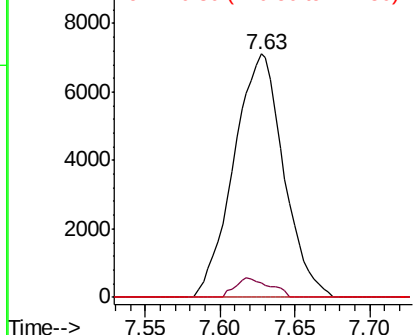
#38
Carbon Tetrachloride
Concen: 5.252 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#12

Tot Ion:117 Resp: 16472
Ion Ratio Lower Upper
117 100
119 5.9 76.7 115.1#
121 0.0 25.4 38.2#

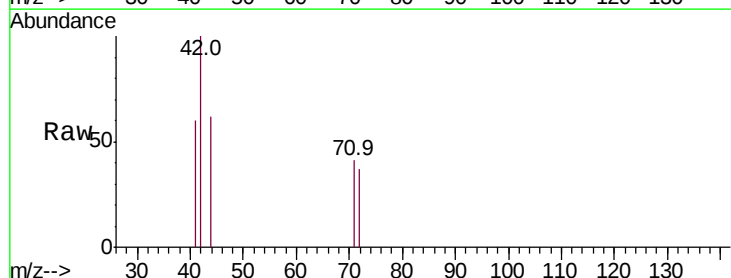


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

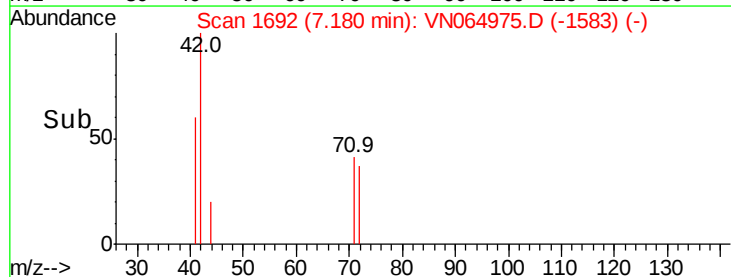
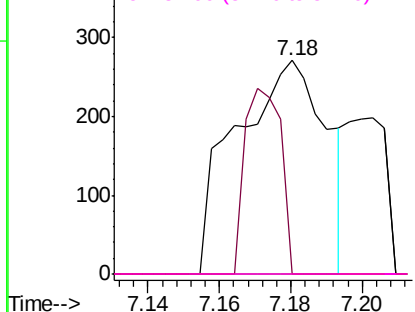


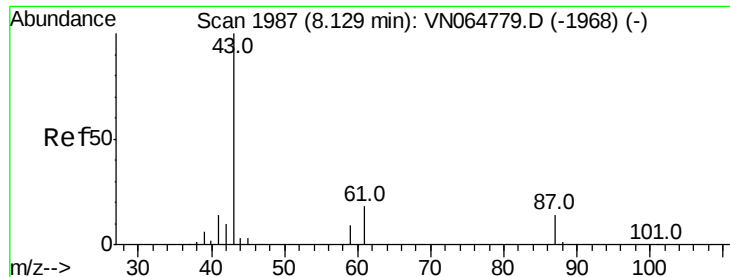
#41
Methacrylonitrile
Concen: 0.355 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.05 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

Tgt Ion: 41 Resp: 475
Ion Ratio Lower Upper
41 100
39 34.5 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): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 3.828 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#12

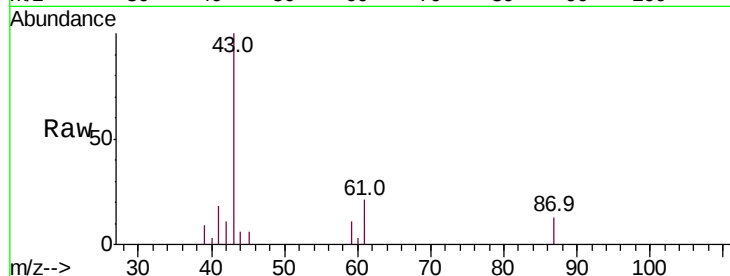
Tot Ion: 43 Resp: 17884

Ion Ratio Lower Upper

43 100

61 19.0 17.2 25.8

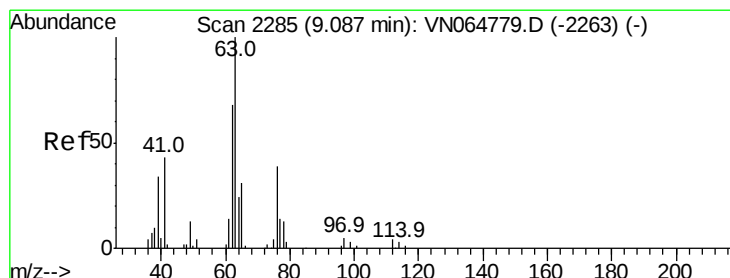
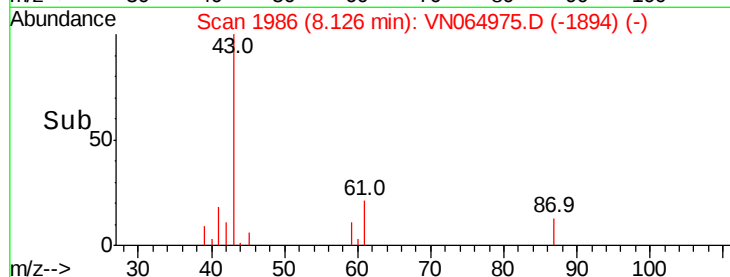
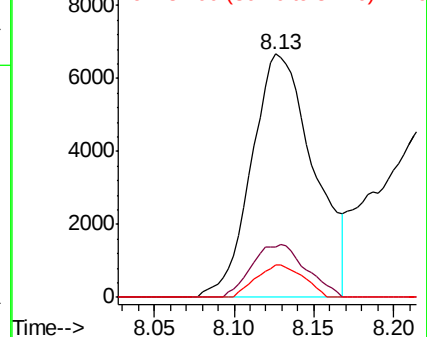
87 10.0 11.4 17.0#



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: 0.467 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064975.D

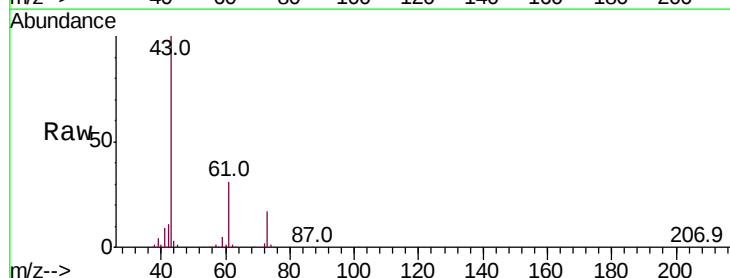
Acq: 8 Dec 2020 17:26

Tgt Ion: 63 Resp: 1118

Ion Ratio Lower Upper

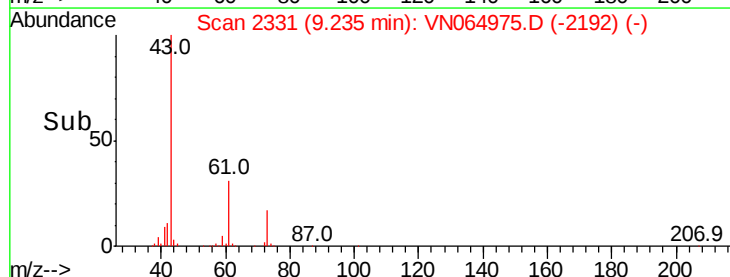
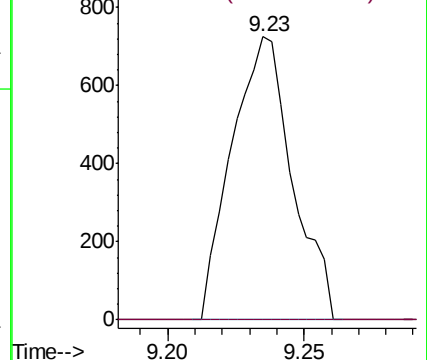
63 100

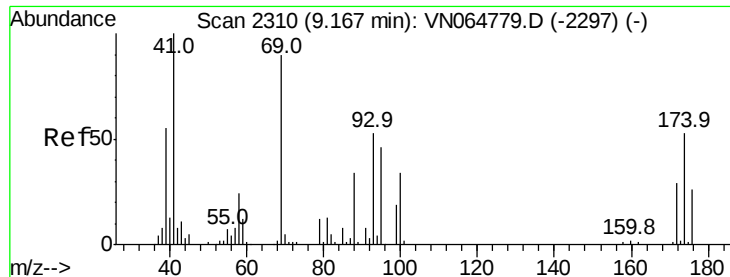
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

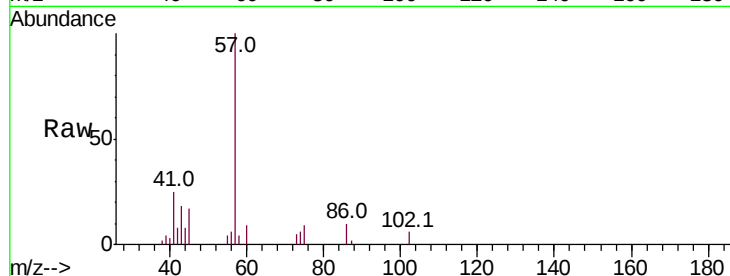




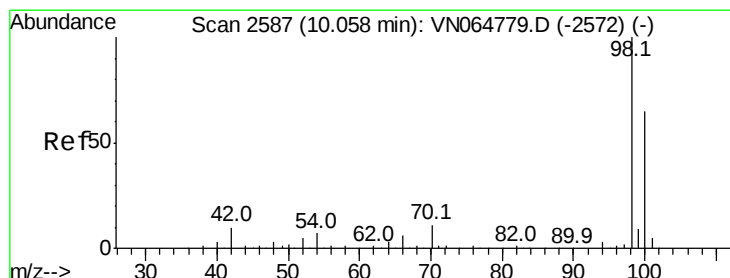
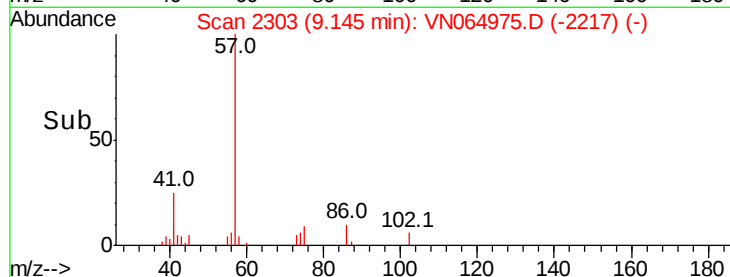
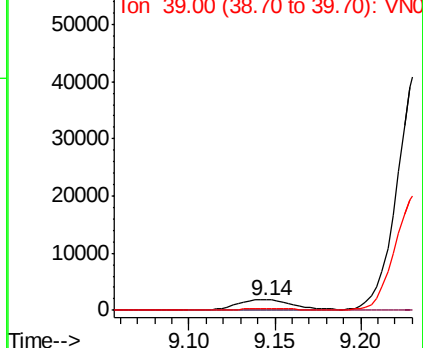
#48
Methvl methacrylate
Concen: 1.917 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#12

Tot Ion: 41 Resp: 4280
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

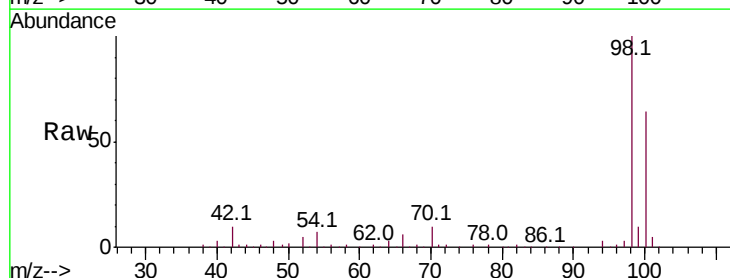


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

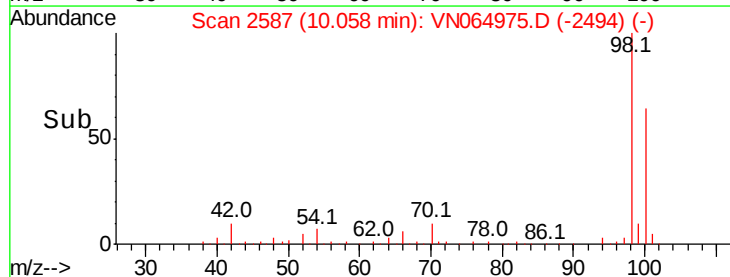
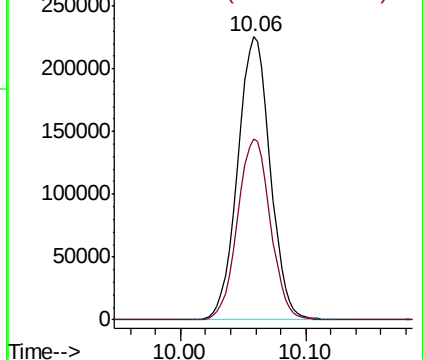


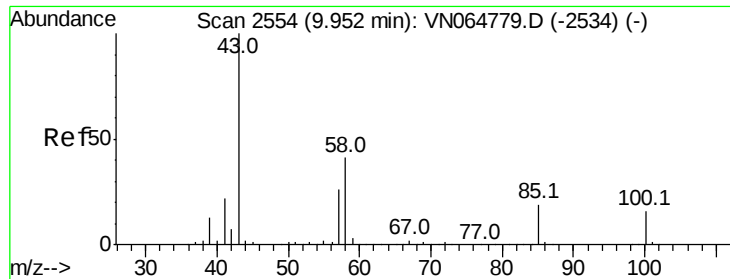
#50
Toluene-d8
Concen: 51.282 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

Tgt Ion: 98 Resp: 407748
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: 1.495 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

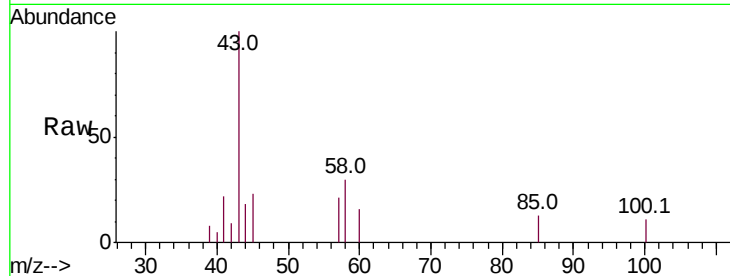
PB133456ZHE#12

Tot Ion: 43 Resp: 4193

Ion Ratio Lower Upper

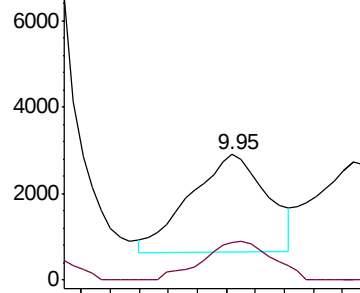
43 100

58 35.2 32.4 48.6

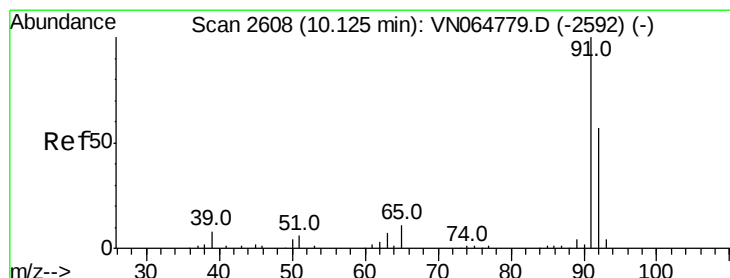
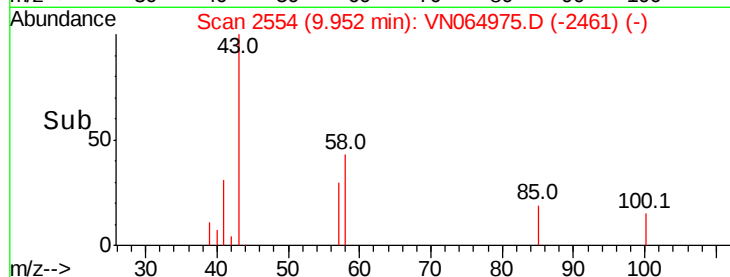


Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)



Time-->



#52

Toluene

Concen: 0.249 ug/l

RT: 10.13 min Scan# 2609

Delta R.T. 0.00 min

Lab File: VN064975.D

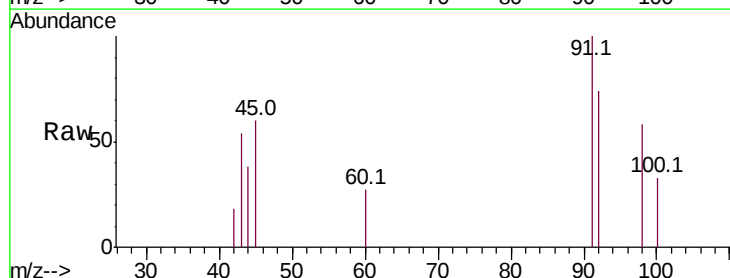
Acq: 8 Dec 2020 17:26

Tgt Ion: 92 Resp: 1415

Ion Ratio Lower Upper

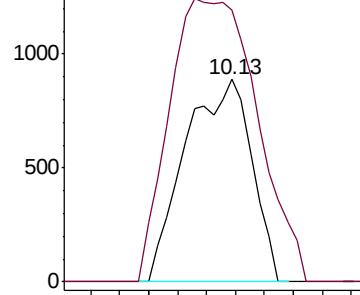
92 100

91 184.5 139.1 208.7

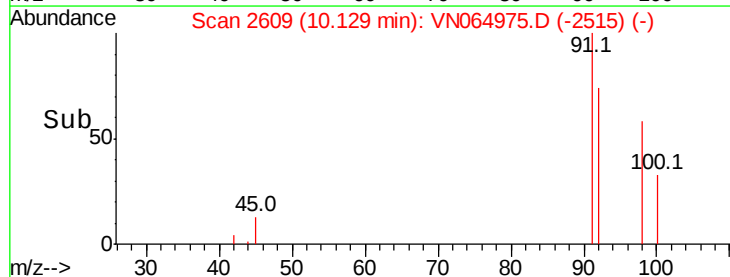


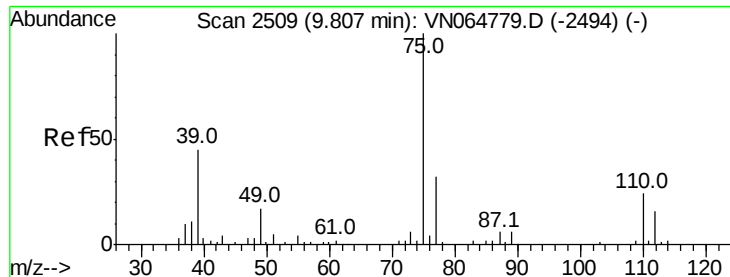
Abundance Ion 92.00 (91.70 to 92.70): VN064779.D (-2592) (-)

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



Time-->

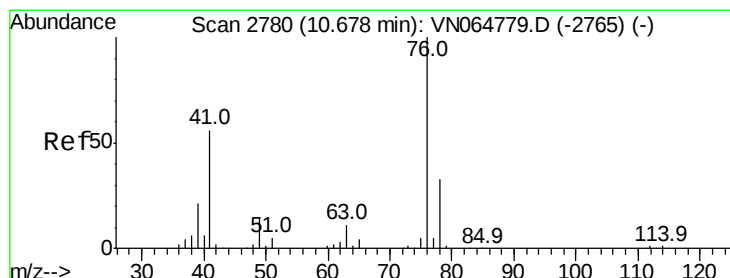
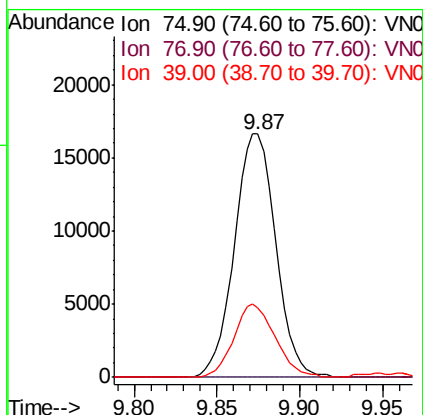
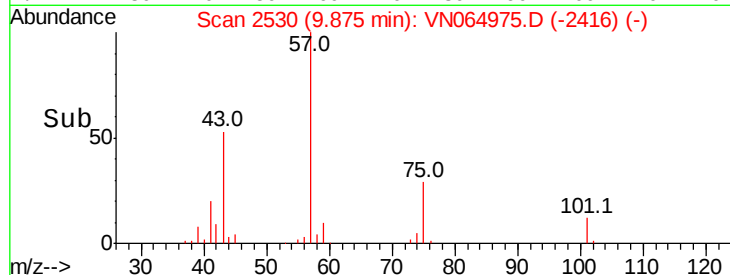
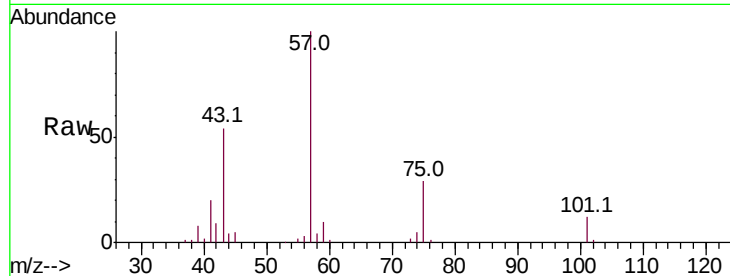




#54
 cis-1,3-Dichloropropene
 Concen: 7.521 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064975.D
 Acq: 8 Dec 2020 17:26

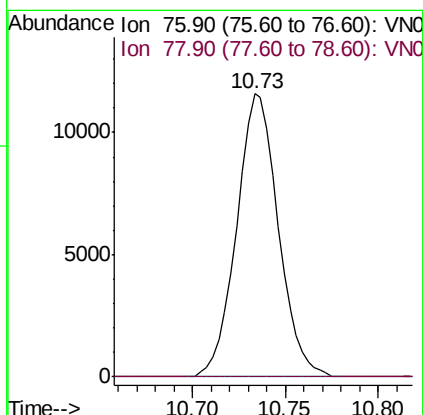
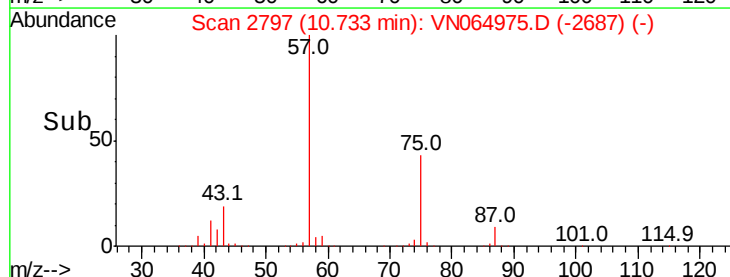
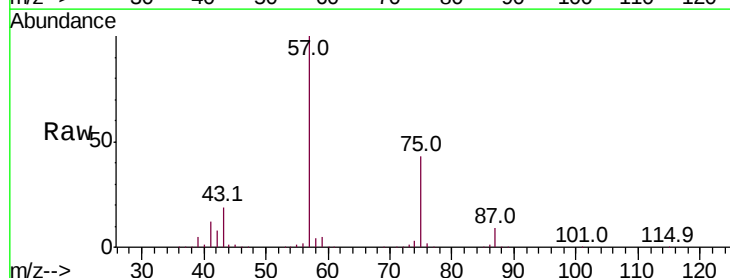
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#12

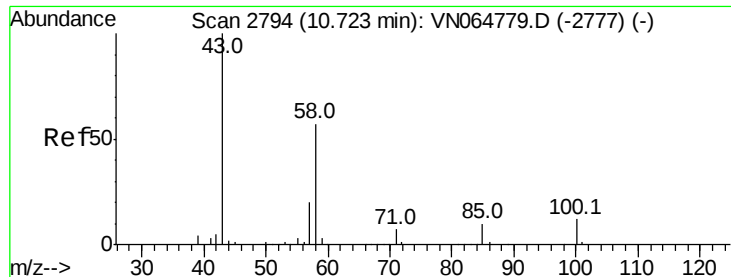
Tot Ion: 75 Resp: 28873
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 28.7 35.6 53.4#



#57
 1,3-Dichloropropane
 Concen: 4.670 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064975.D
 Acq: 8 Dec 2020 17:26

Tgt Ion: 76 Resp: 18019
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

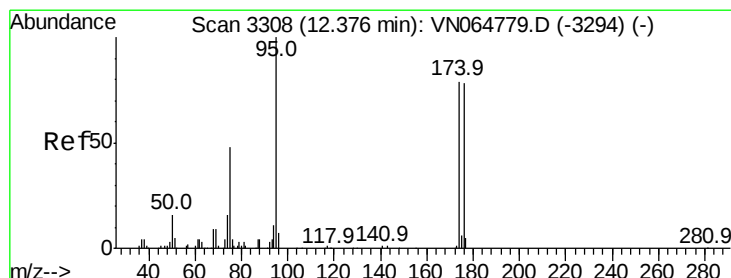
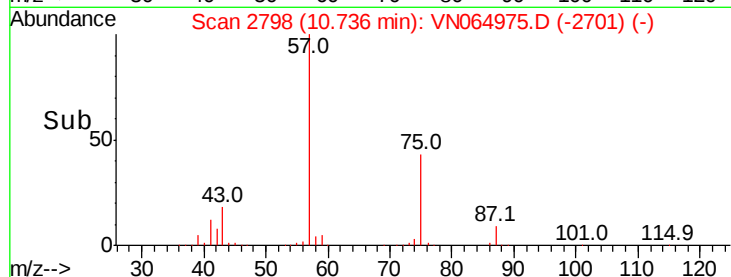
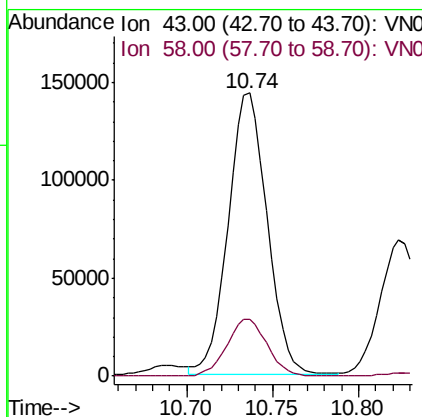
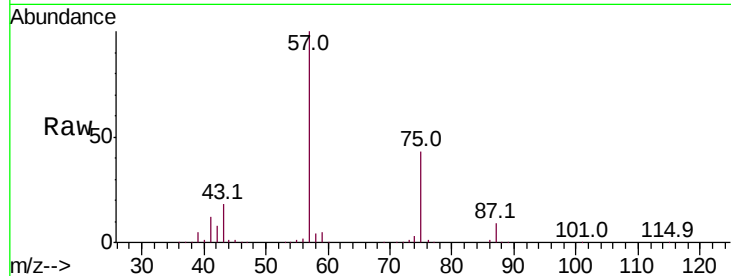




#59
2-Hexanone
Concen: 113.058 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

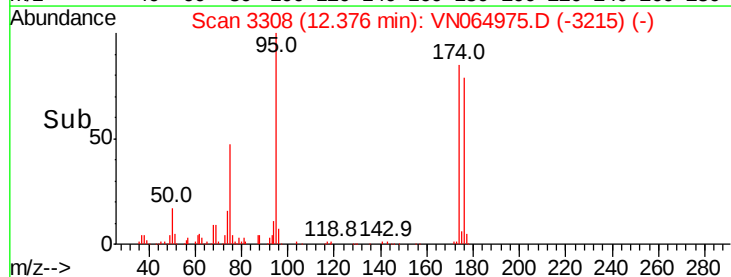
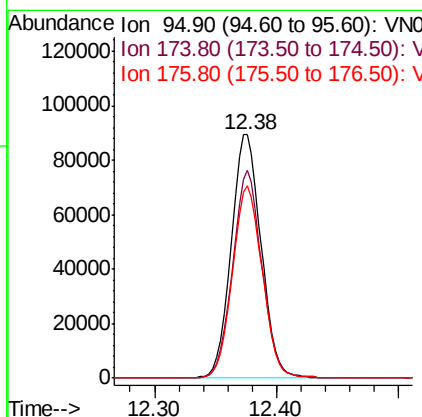
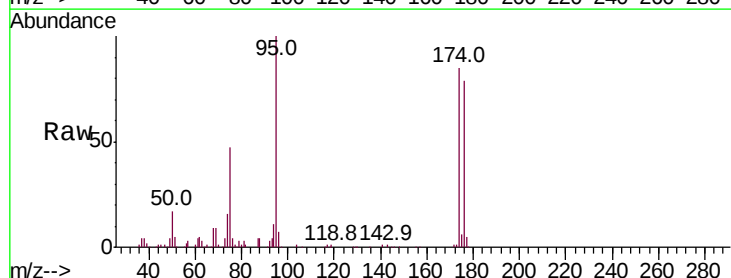
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#12

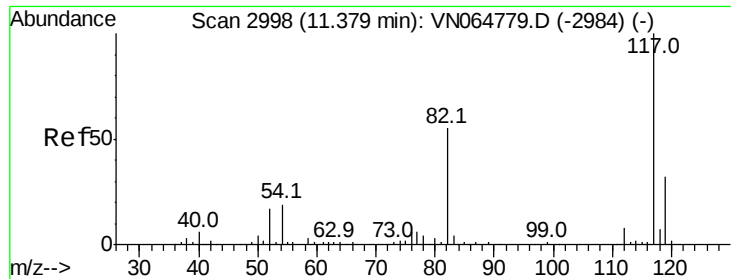
Tot Ion: 43 Resp: 228237
Ion Ratio Lower Upper
43 100
58 20.8 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 53.562 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

Tgt Ion: 95 Resp: 152413
Ion Ratio Lower Upper
95 100
174 82.9 0.0 160.4
176 78.3 0.0 158.4

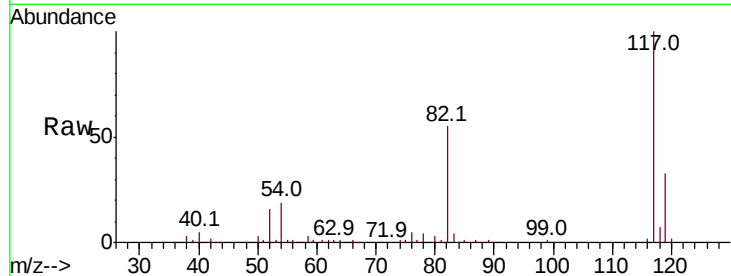




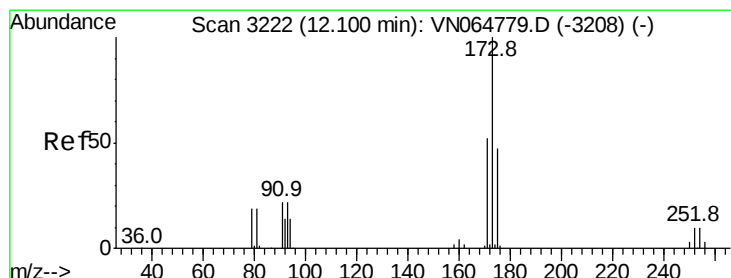
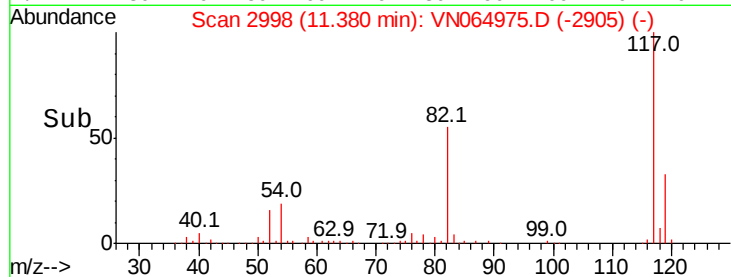
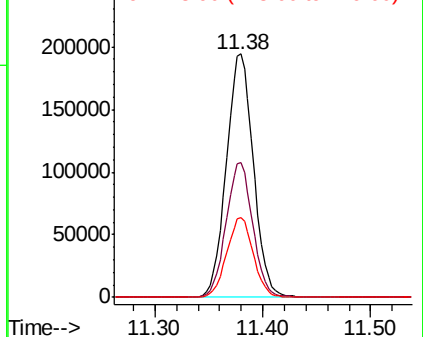
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#12

Tot Ion:117 Resp: 339975
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.2
119 32.9 25.8 38.6

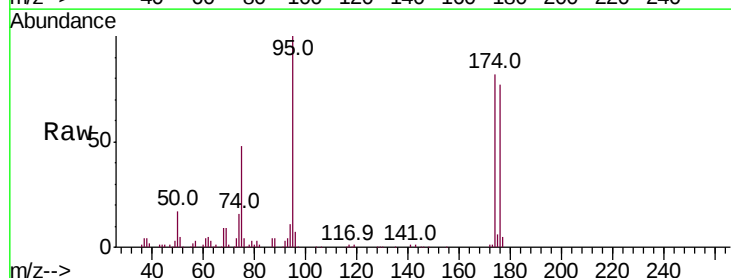


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

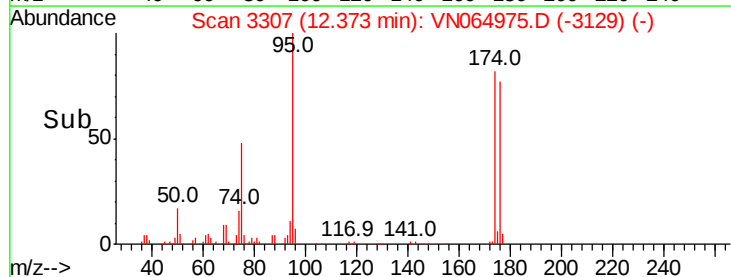
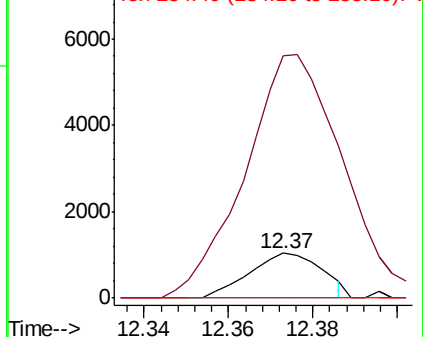


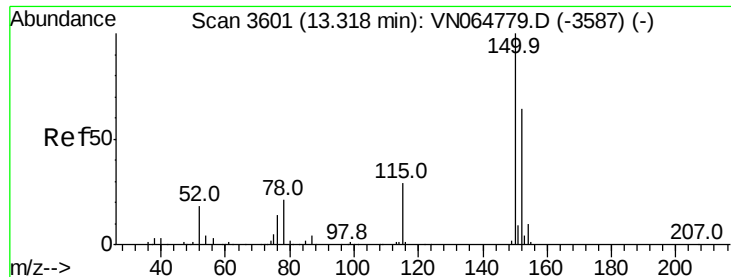
#71
Bromoform
Concen: 0.578 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN064975.D
Acq: 8 Dec 2020 17:26

Tgt Ion:173 Resp: 1239
Ion Ratio Lower Upper
173 100
175 628.2 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: VN064975.D

Acq: 8 Dec 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#12

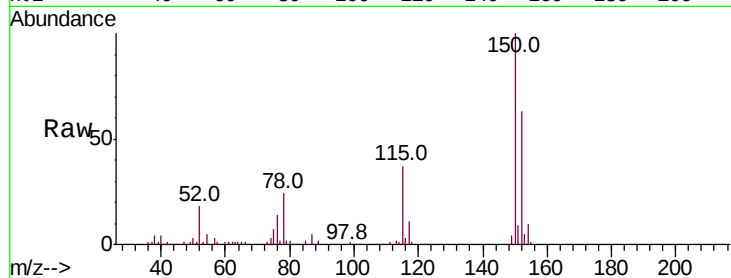
Tot Ion:152 Resp: 139317

Ion Ratio Lower Upper

152 100

115 59.1 29.7 89.1

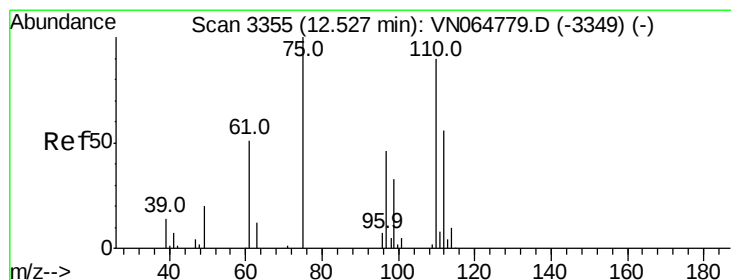
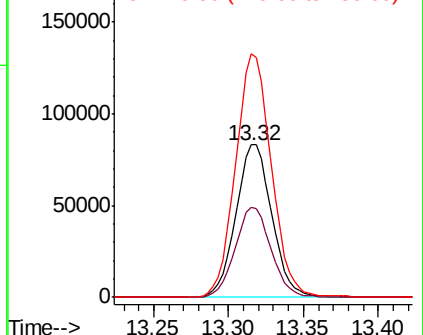
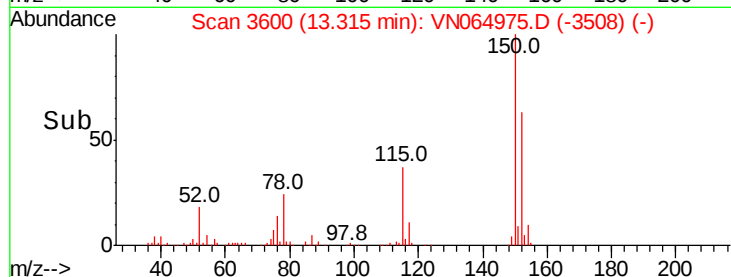
150 158.8 0.0 350.6



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: 23.878 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064975.D

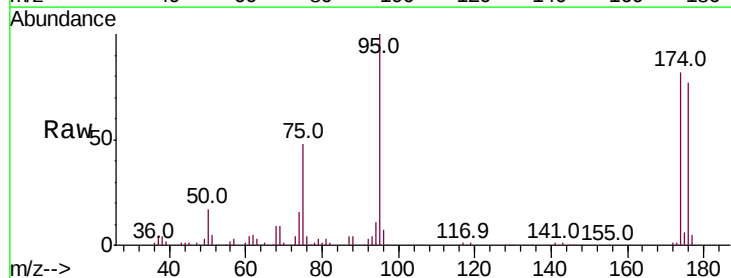
Acq: 8 Dec 2020 17:26

Tgt Ion: 75 Resp: 71642

Ion Ratio Lower Upper

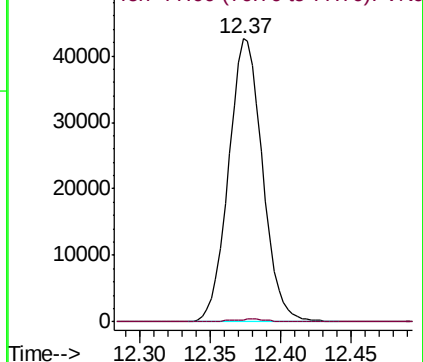
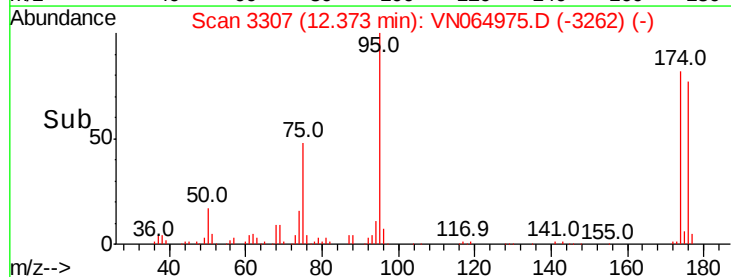
75 100

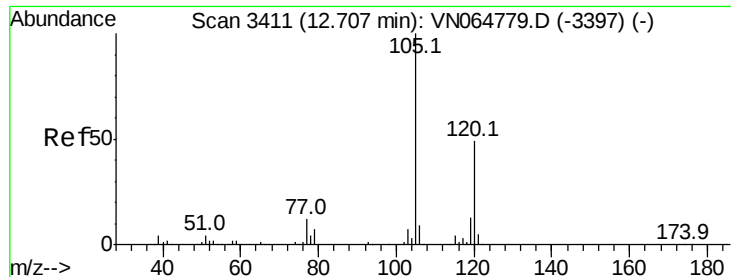
77 1.0 0.0 0.0#



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: 0.269 ug/l

RT: 12.70 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

Instrument :

MSVOA_N

ClientSampleId :

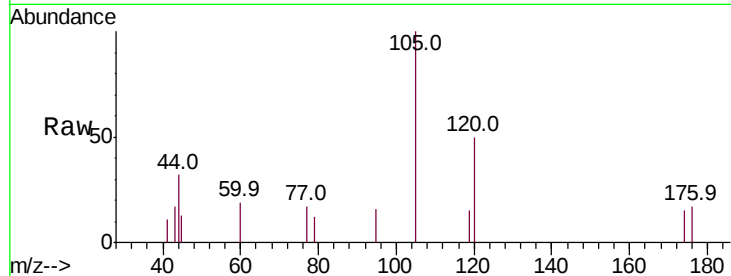
PB133456ZHE#12

Tot Ion:105 Resp: 2164

Ion Ratio Lower Upper

105 100

120 44.6 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.70

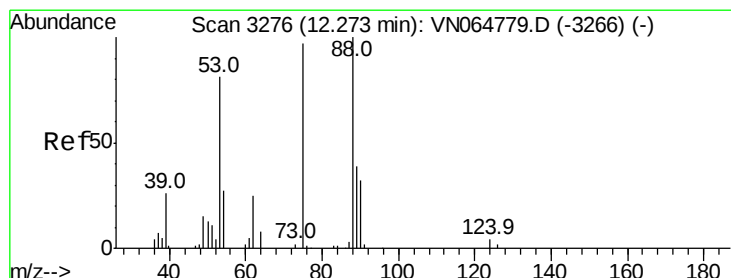
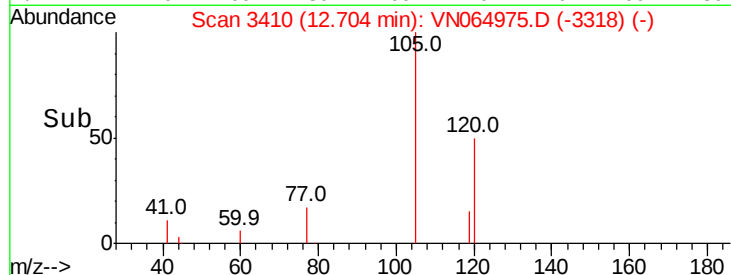
1500

1000

500

0

Time--> 12.65 12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 65.444 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064975.D

Acq: 8 Dec 2020 17:26

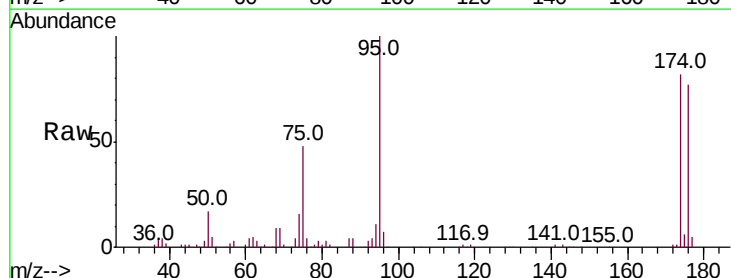
Tgt Ion: 75 Resp: 71642

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

12.37

50000

40000

30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45

