

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064971.D
 Acq On : 8 Dec 2020 15:49
 Operator : JC/MD
 Sample : PB133456ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#08

Quant Time: Dec 09 06:52:43 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	169084	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	316716	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	333679	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	140817	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	108329	55.11	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	110.22%
35) Dibromofluoromethane	7.55	113	99336	52.42	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	104.84%
50) Toluene-d8	10.06	98	398319	51.44	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.88%
62) 4-Bromofluorobenzene	12.38	95	150431	54.28	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	108.56%

Target Compounds

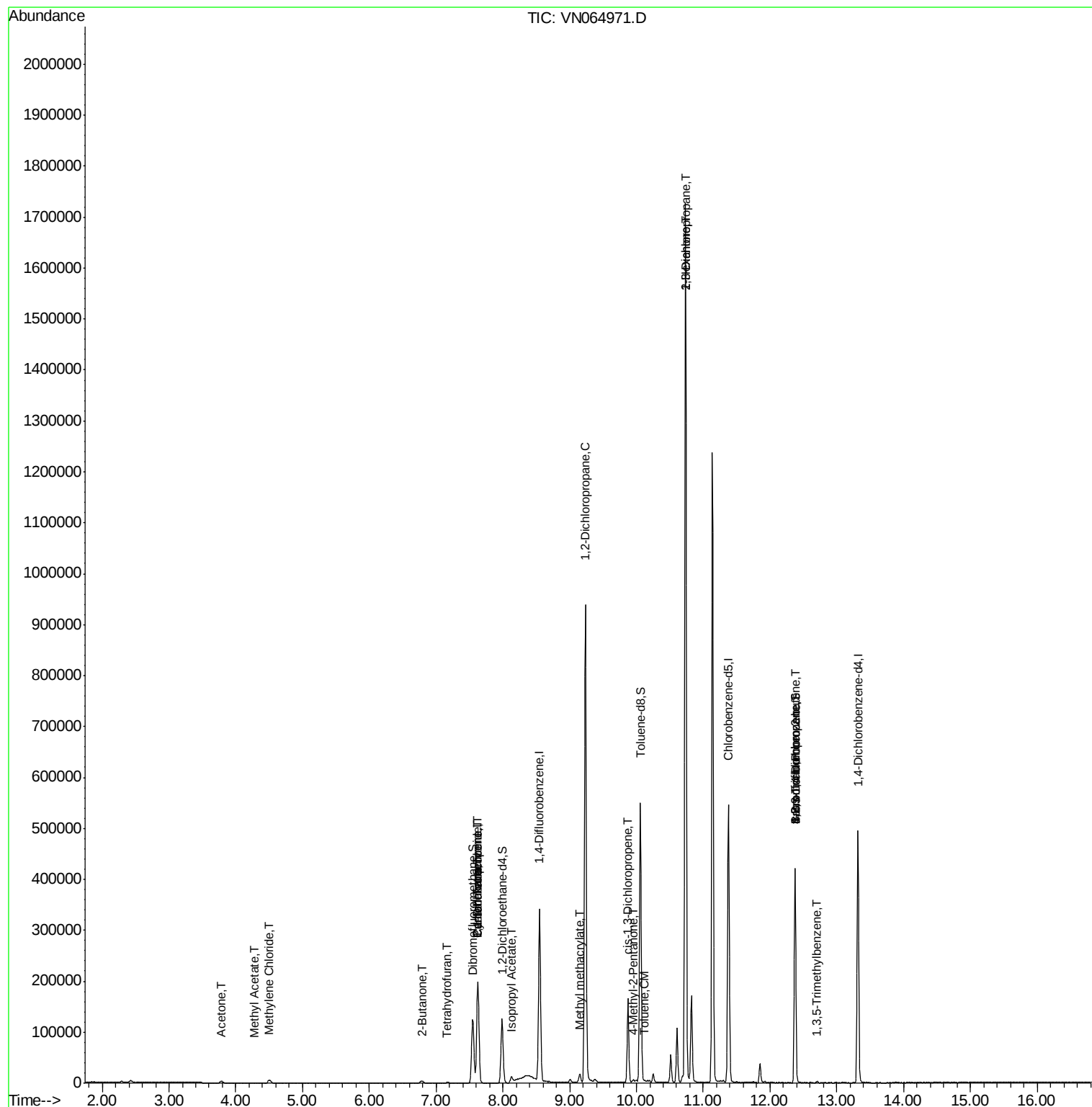
					Qvalue	
16) Acetone	3.78	43	5755	8.906	ug/l #	85
18) Methyl Acetate	4.29	43	561	0.289	ug/l #	50
20) Methylene Chloride	4.50	84	5022	2.480	ug/l #	84
25) 2-Butanone	6.79	43	1249	1.192	ug/l	100
29) Tetrahydrofuran	7.16	42	658	0.910	ug/l #	51
31) Cyclohexane	7.62	56	2929	1.069	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11476	3.909	ug/l #	46
38) Carbon Tetrachloride	7.62	117	16011	5.242	ug/l #	16
43) Isopropyl Acetate	8.13	43	17151	3.769	ug/l	94
45) 1,2-Dichloropropane	9.23	63	1087	0.467	ug/l #	43
48) Methyl methacrylate	9.14	41	4055	1.865	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	3454	1.264	ug/l	100
52) Toluene	10.12	92	1678	0.303	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	30317	8.109	ug/l #	62
57) 1,3-Dichloropropane	10.74	76	17733	4.719	ug/l #	42
59) 2-Hexanone	10.74	43	236637	120.364	ug/l #	50
71) Bromoform	12.38	173	1174	0.558	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	71886	23.704	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2353	0.289	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.38	75	71886	64.968	ug/l #	15

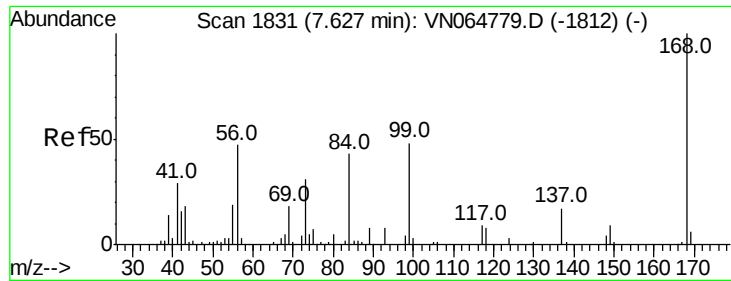
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

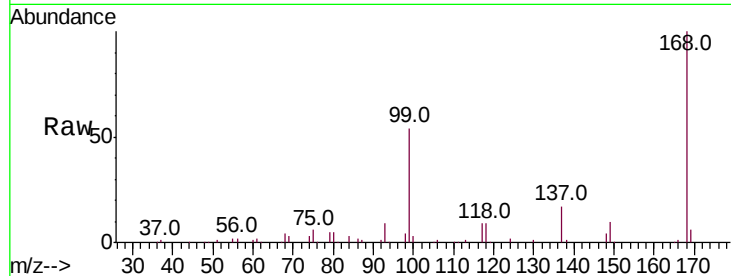
PB133456ZHE#08

Tot Ion:168 Resp: 169084

Ion Ratio Lower Upper

168 100

99 54.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN064971.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN064971.D (-1812) (-)

7.63

80000

60000

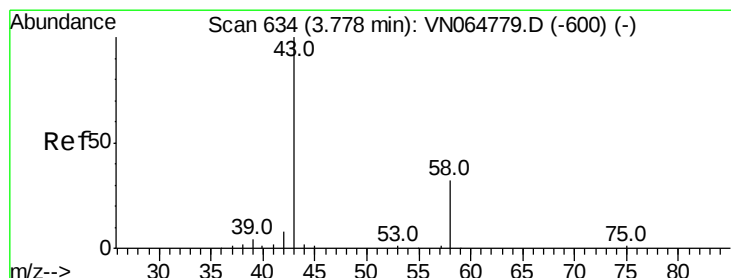
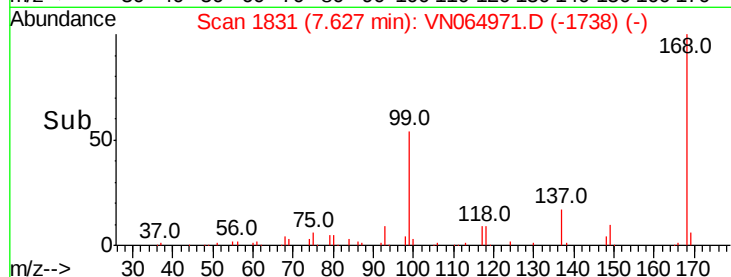
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 8.906 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064971.D

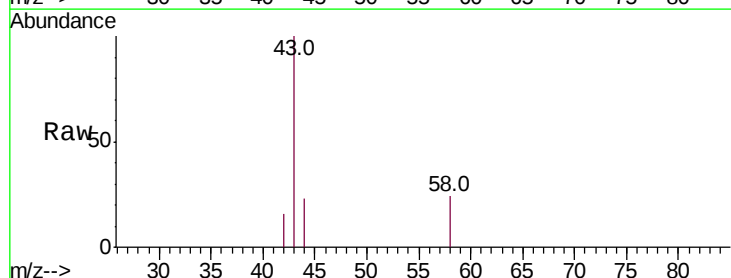
Acq: 8 Dec 2020 15:49

Tgt Ion: 43 Resp: 5755

Ion Ratio Lower Upper

43 100

58 23.8 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN064971.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN064971.D (-600) (-)

3.78

2500

2000

1500

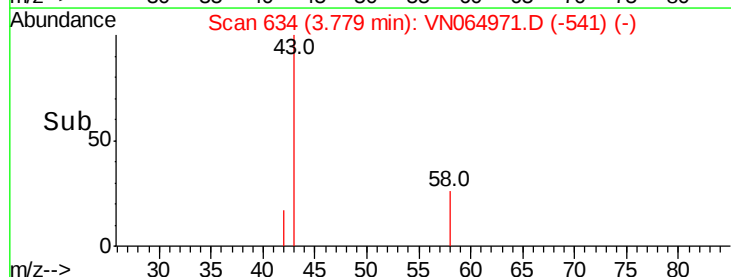
1000

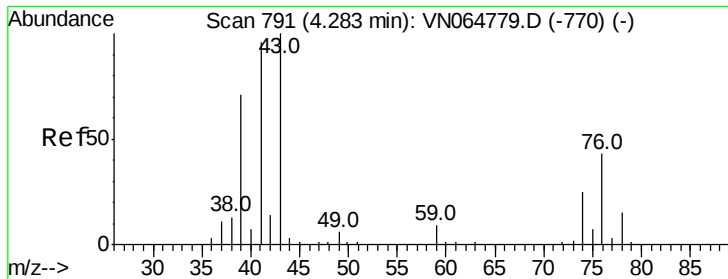
500

0

3.70 3.75 3.80 3.85

Time-->

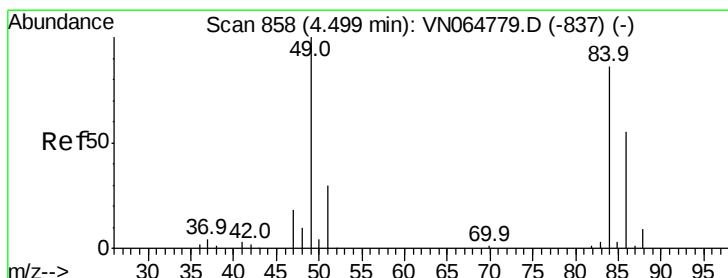
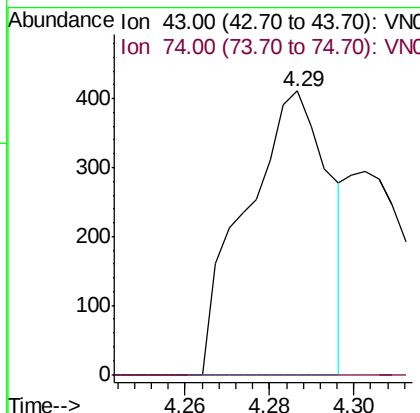
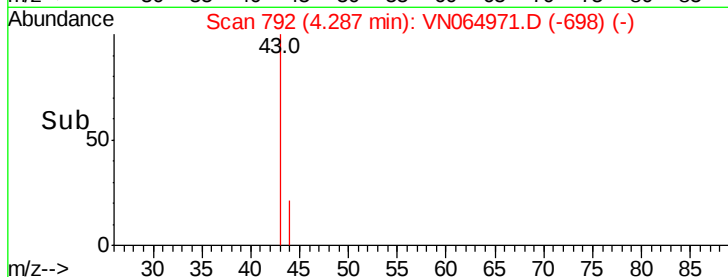
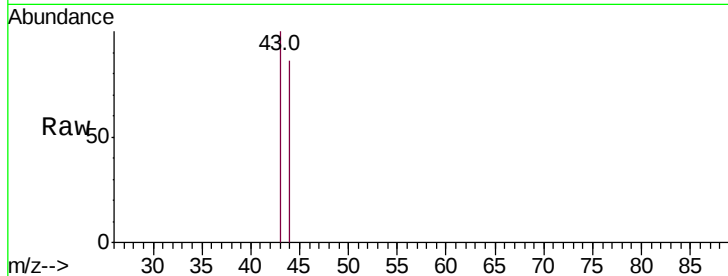




#18
Methyl Acetate
Concen: 0.289 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

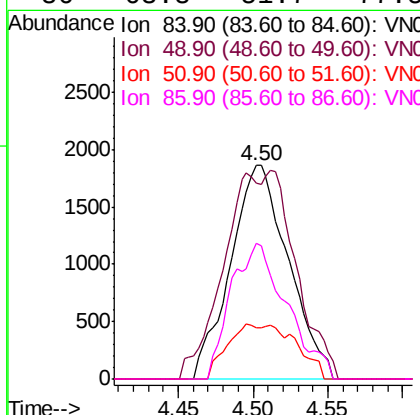
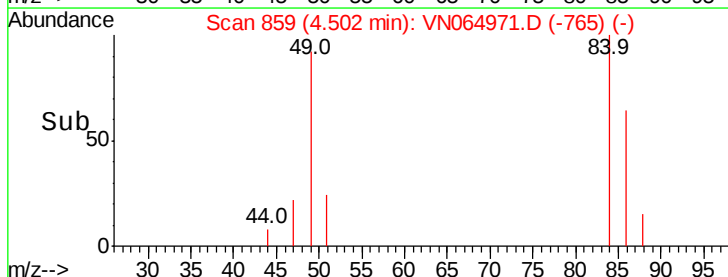
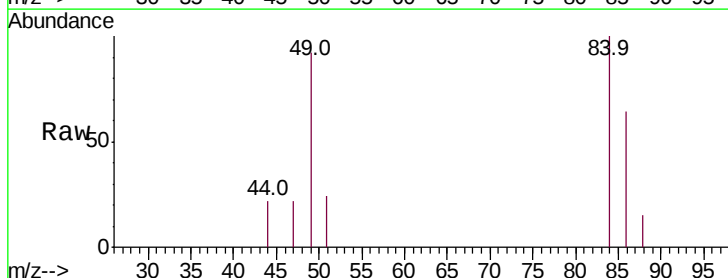
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#08

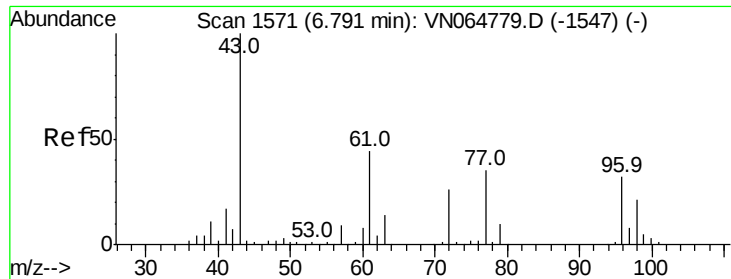
Tot Ion: 43 Resp: 561
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 2.480 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

Tgt Ion: 84 Resp: 5022
Ion Ratio Lower Upper
84 100
49 91.7 93.4 140.0#
51 24.2 28.2 42.4#
86 63.8 51.7 77.5





#25

2-Butanone

Concen: 1.192 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

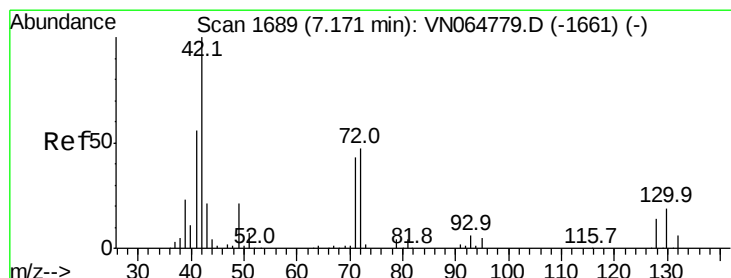
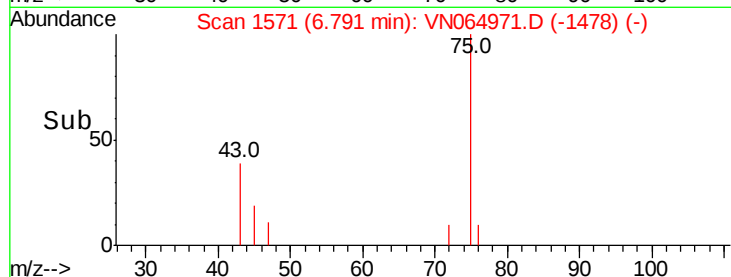
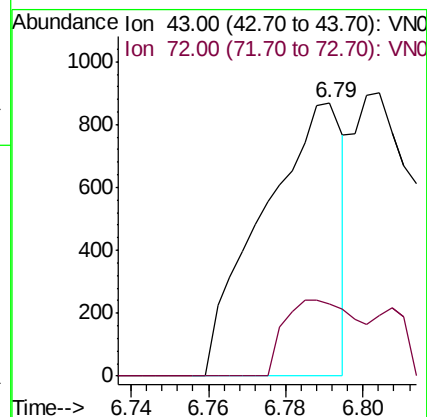
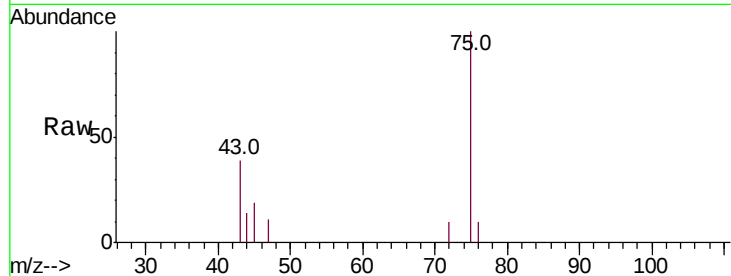
PB133456ZHE#08

Tot Ion: 43 Resp: 1249

Ion Ratio Lower Upper

43 100

72 26.2 21.0 31.6



#29

Tetrahydrofuran

Concen: 0.910 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

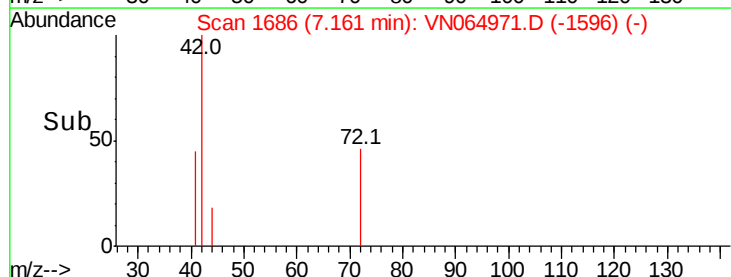
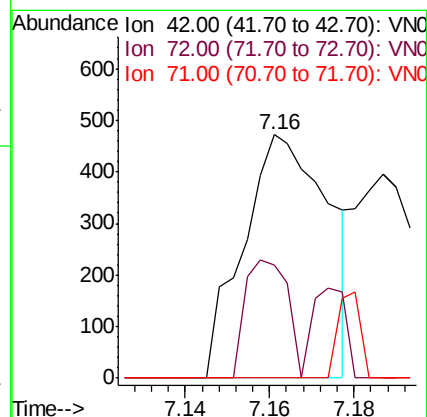
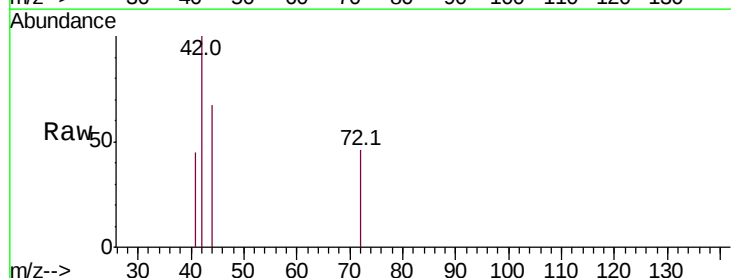
Tgt Ion: 42 Resp: 658

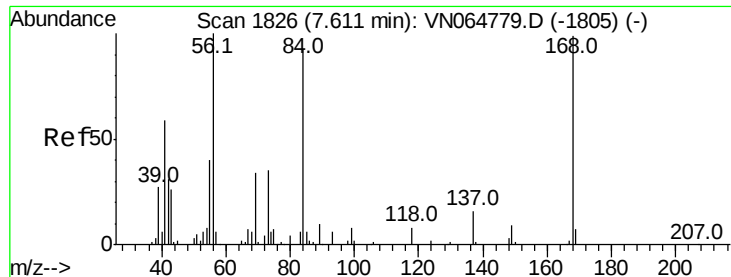
Ion Ratio Lower Upper

42 100

72 24.3 36.6 54.8#

71 0.0 33.6 50.4#

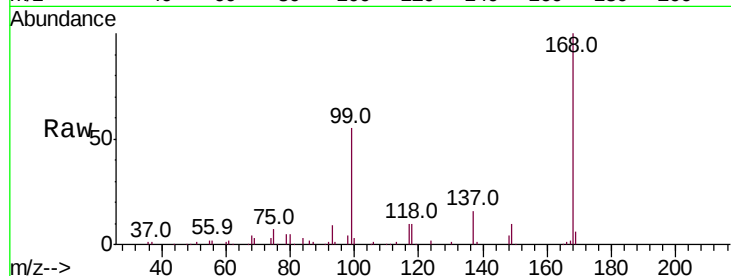




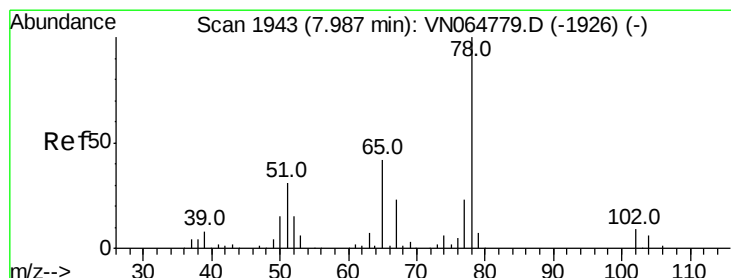
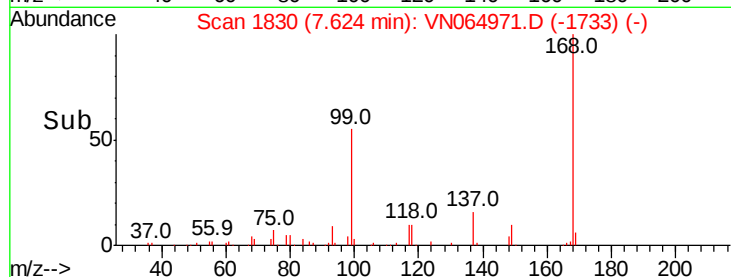
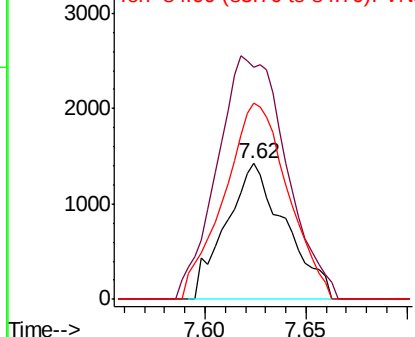
#31
Cyclohexane
Concen: 1.069 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#08

Tot Ion: 56 Resp: 2929
Ion Ratio Lower Upper
56 100
69 171.6 27.5 41.3#
84 144.6 73.9 110.9#

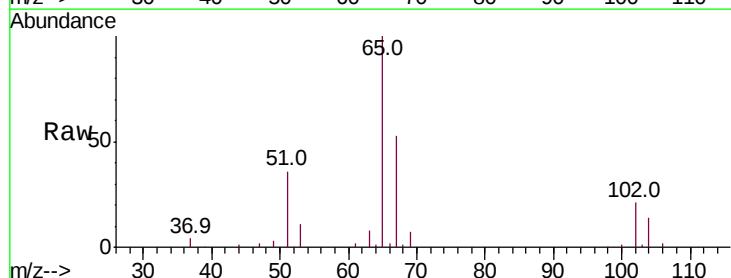


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

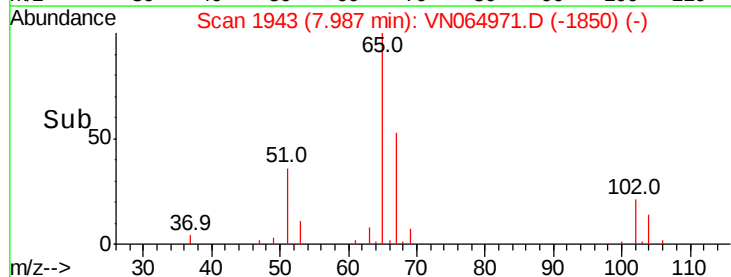
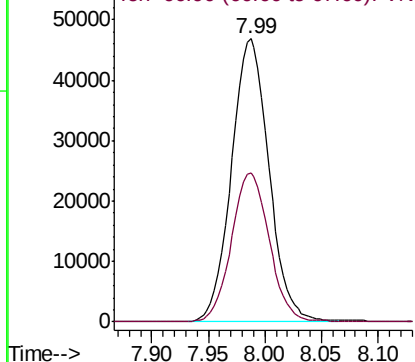


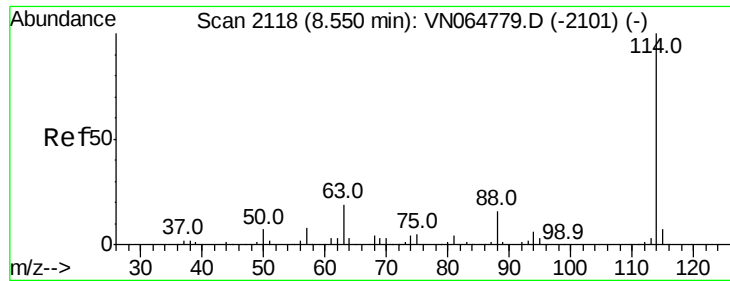
#33
1,2-Dichloroethane-d4
Concen: 55.109 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

Tgt Ion: 65 Resp: 108329
Ion Ratio Lower Upper
65 100
67 53.0 0.0 108.2



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

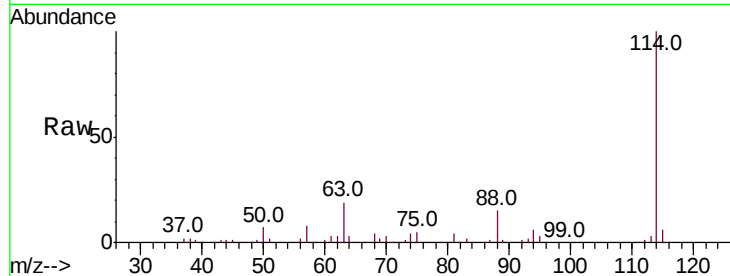




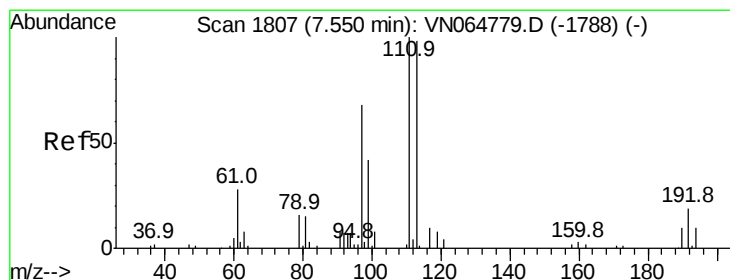
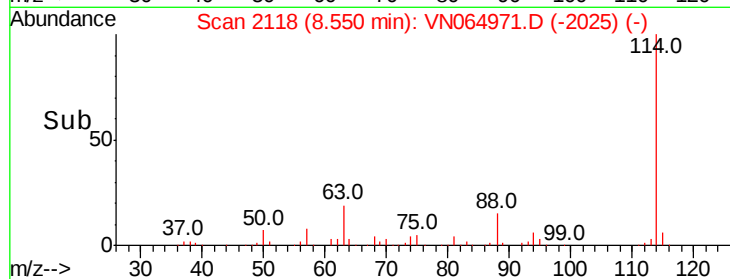
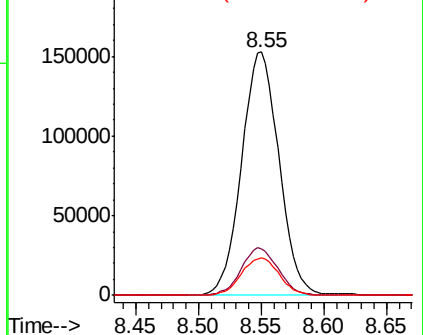
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064971.D
 Acq: 8 Dec 2020 15:49

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#08

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	38.6
88	15.2	0.0	32.6

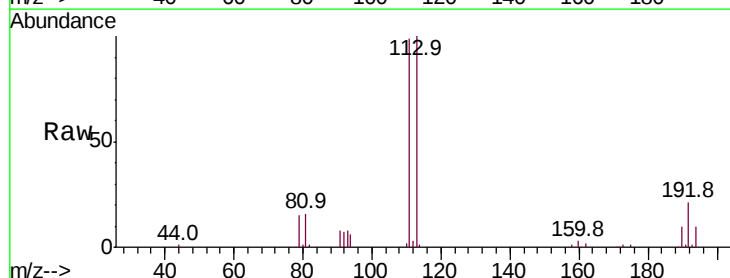


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

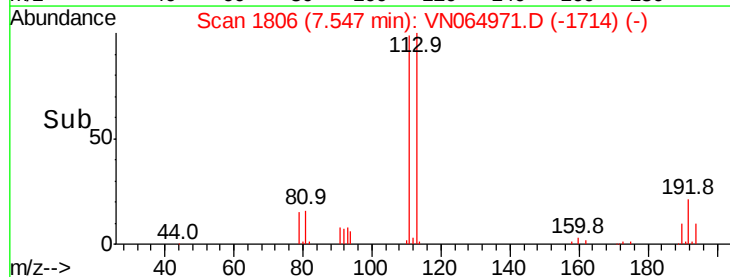
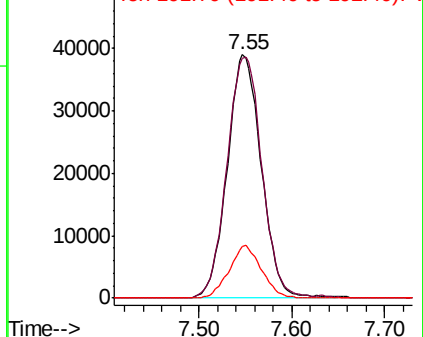


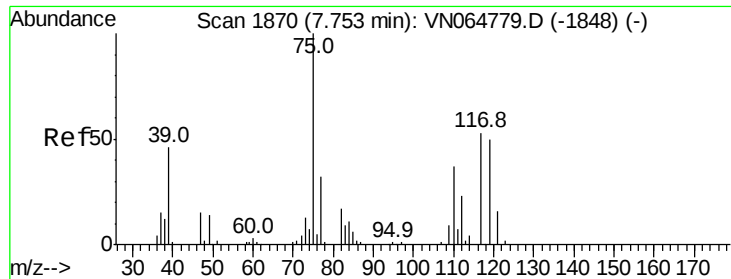
#35
 Dibromofluoromethane
 Concen: 52.417 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064971.D
 Acq: 8 Dec 2020 15:49

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.6	122.4
192	20.5	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: 3.909 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#08

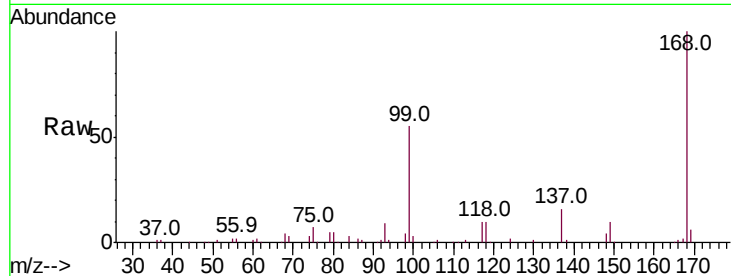
Tot Ion: 75 Resp: 11476

Ion Ratio Lower Upper

75 100

110 4.8 17.8 53.3#

77 0.0 25.0 37.4#

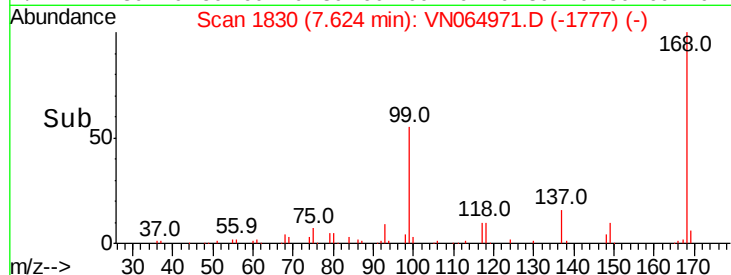


Abundance Ion 74.90 (74.60 to 75.60): VN064971.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN064971.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN064971.D (-1777) (-)

Time-->

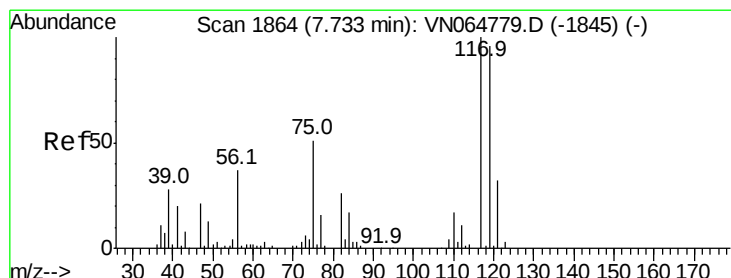


Abundance Ion 74.90 (74.60 to 75.60): VN064971.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN064971.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN064971.D (-1777) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.242 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

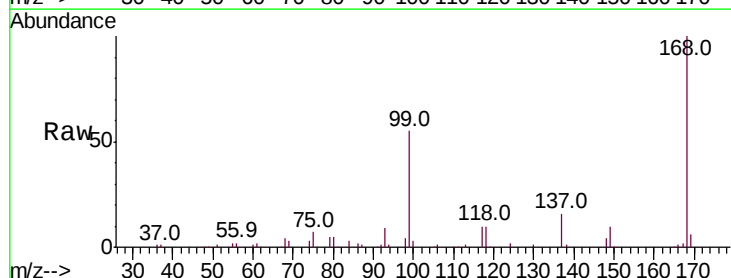
Tgt Ion: 117 Resp: 16011

Ion Ratio Lower Upper

117 100

119 5.0 76.7 115.1#

121 0.0 25.4 38.2#

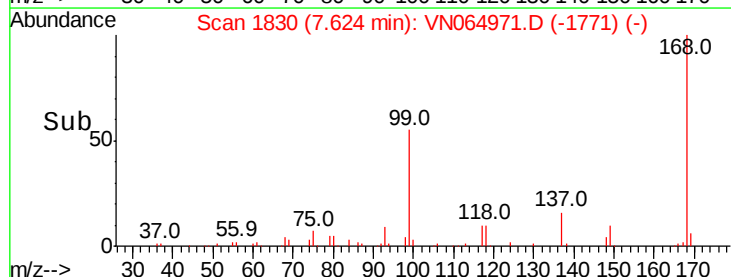


Abundance Ion 116.80 (116.50 to 117.50): VN064971.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN064971.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN064971.D (-1771) (-)

Time-->

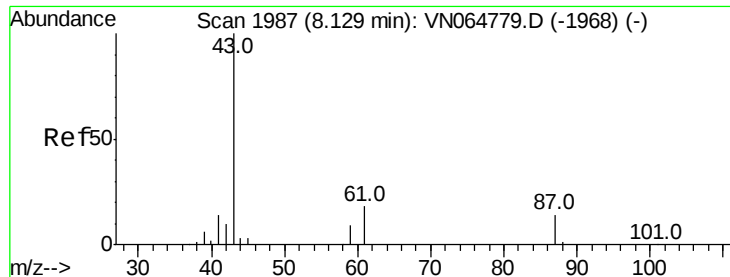


Abundance Ion 116.80 (116.50 to 117.50): VN064971.D (-1771) (-)

Ion 118.80 (118.50 to 119.50): VN064971.D (-1771) (-)

Ion 120.80 (120.50 to 121.50): VN064971.D (-1771) (-)

Time-->



#43

Isopropyl Acetate

Concen: 3.769 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#08

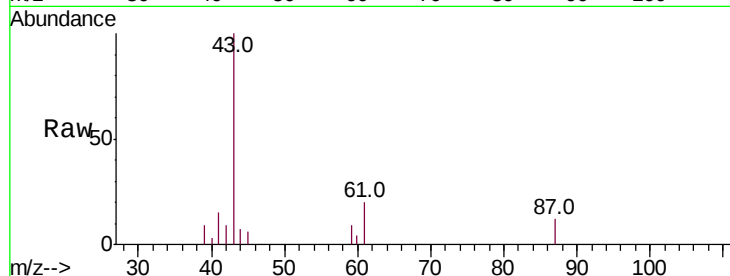
Tot Ion: 43 Resp: 17151

Ion Ratio Lower Upper

43 100

61 18.7 17.2 25.8

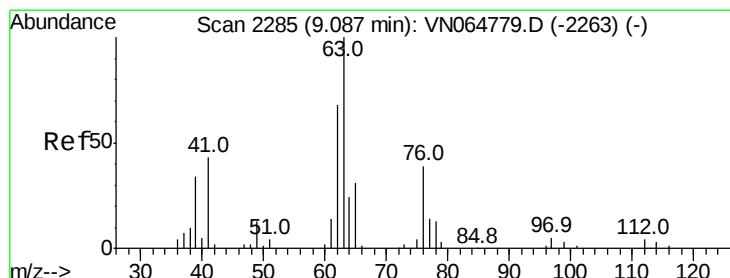
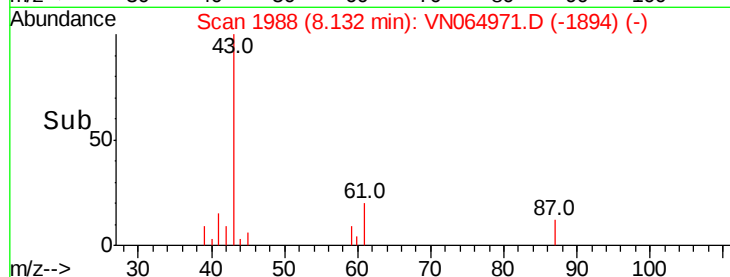
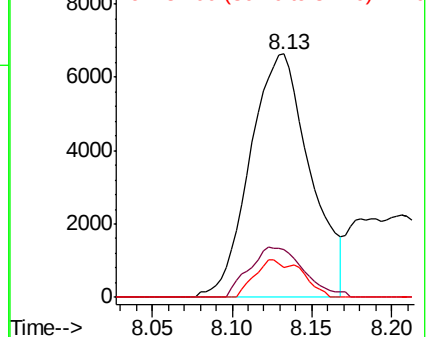
87 12.1 11.4 17.0



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: VN064971.D

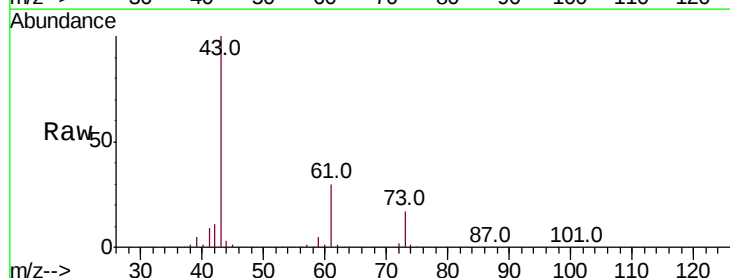
Acq: 8 Dec 2020 15:49

Tgt Ion: 63 Resp: 1087

Ion Ratio Lower Upper

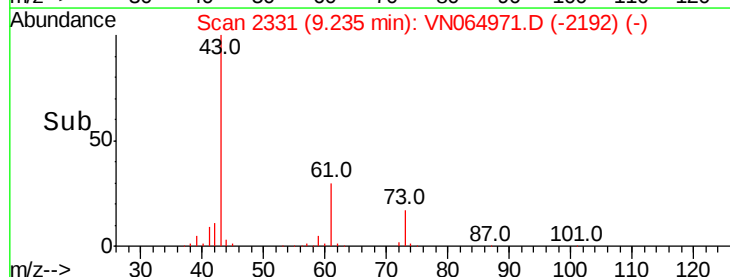
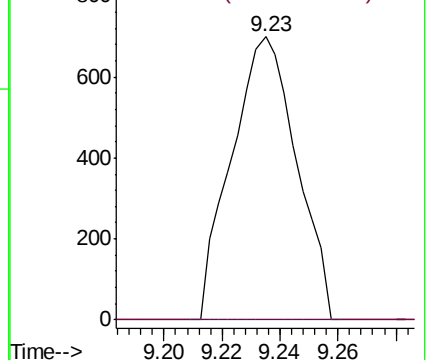
63 100

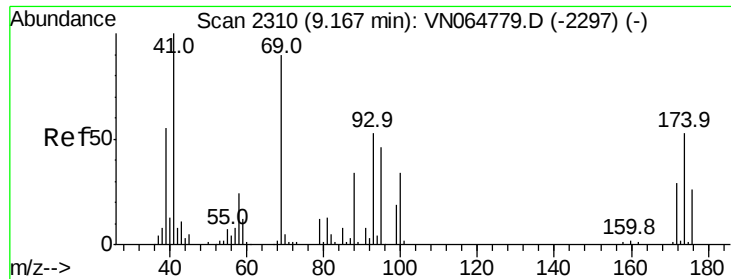
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

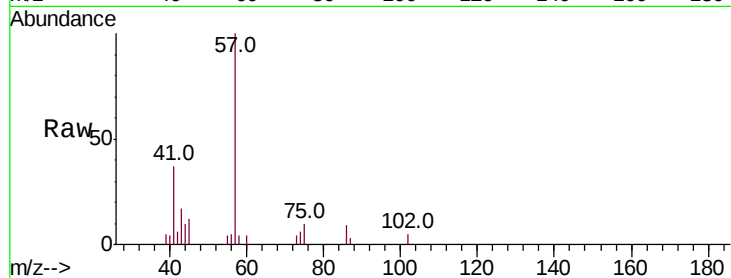




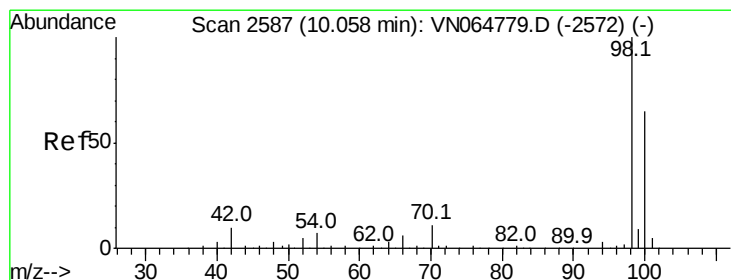
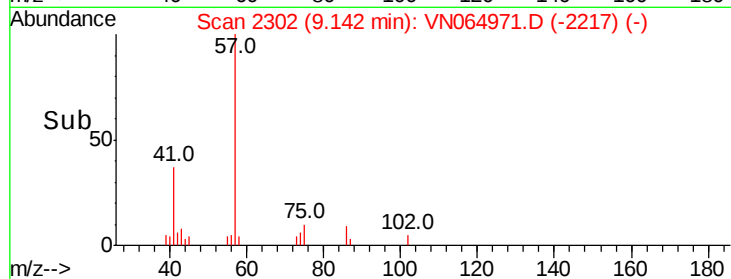
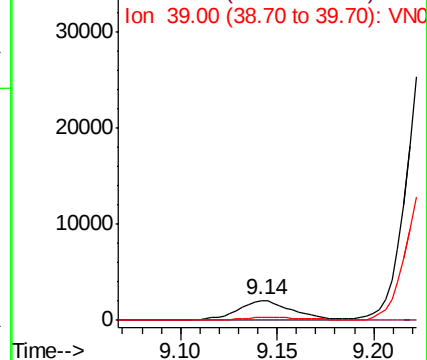
#48
Methvl methacrylate
Concen: 1.865 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#08

Tot Ion: 41 Resp: 4055
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

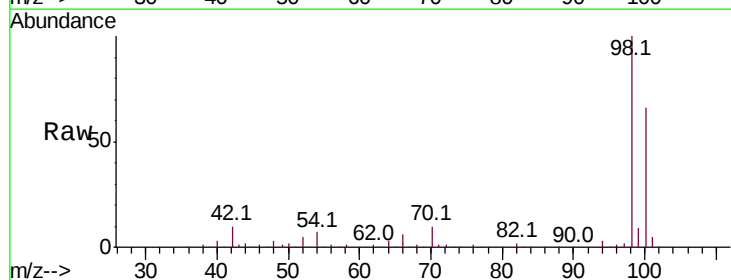


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

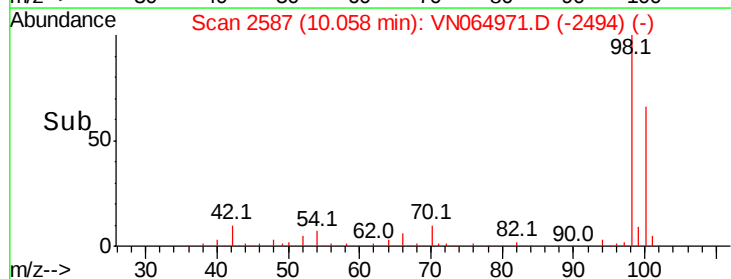
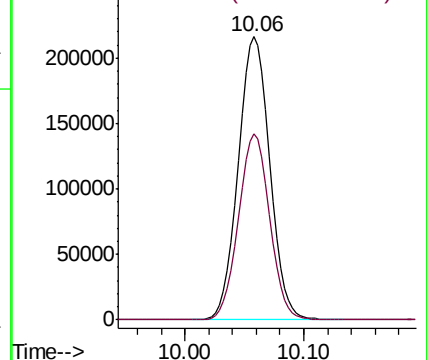


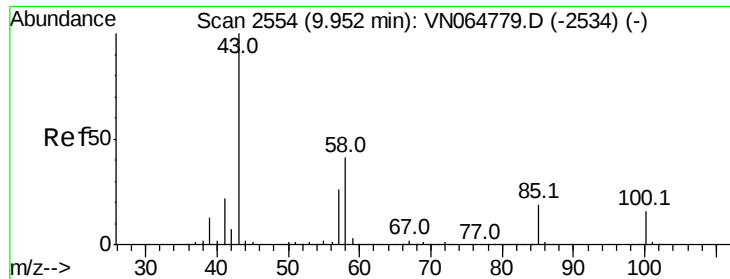
#50
Toluene-d8
Concen: 51.440 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

Tgt Ion: 98 Resp: 398319
Ion Ratio Lower Upper
98 100
100 64.9 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: 1.264 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

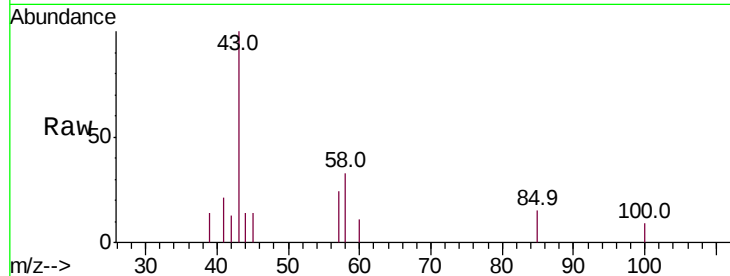
PB133456ZHE#08

Tot Ion: 43 Resp: 3454

Ion Ratio Lower Upper

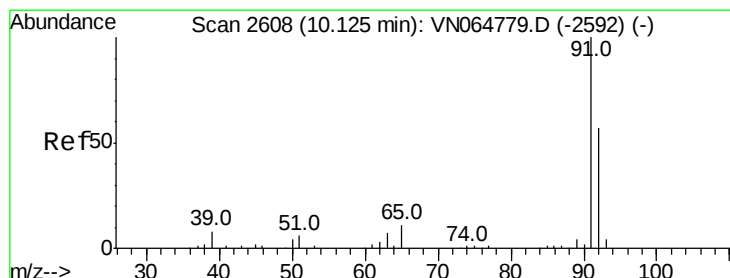
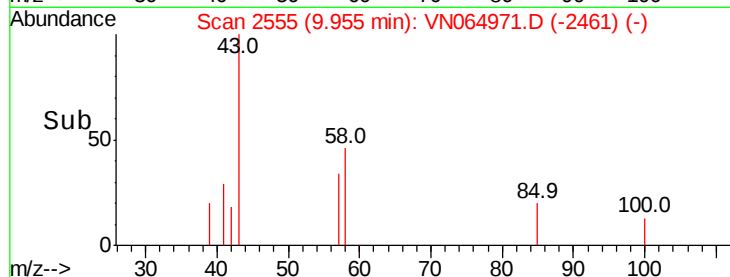
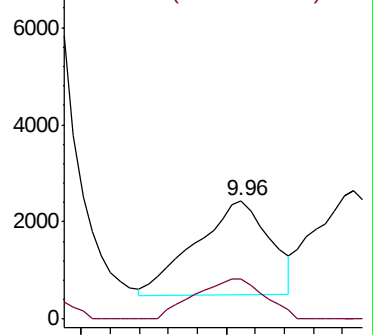
43 100

58 40.4 32.4 48.6



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

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



#52

Toluene

Concen: 0.303 ug/l

RT: 10.12 min Scan# 2606

Delta R.T. -0.01 min

Lab File: VN064971.D

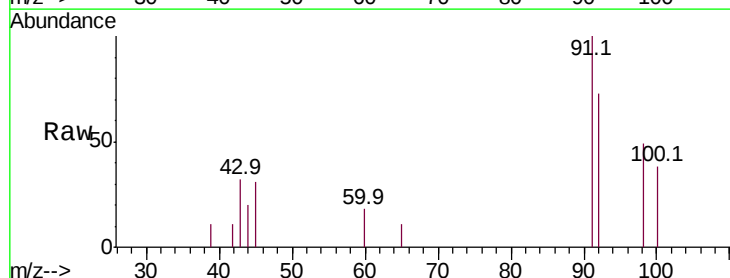
Acq: 8 Dec 2020 15:49

Tgt Ion: 92 Resp: 1678

Ion Ratio Lower Upper

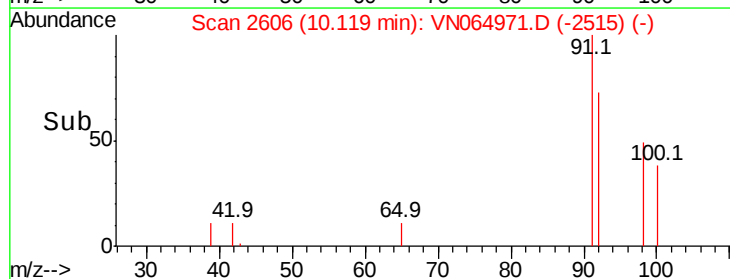
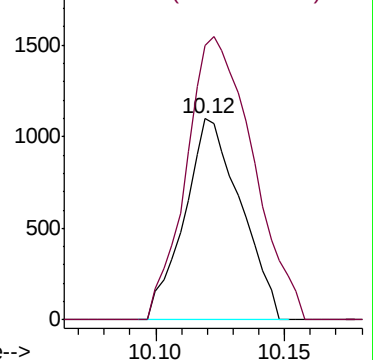
92 100

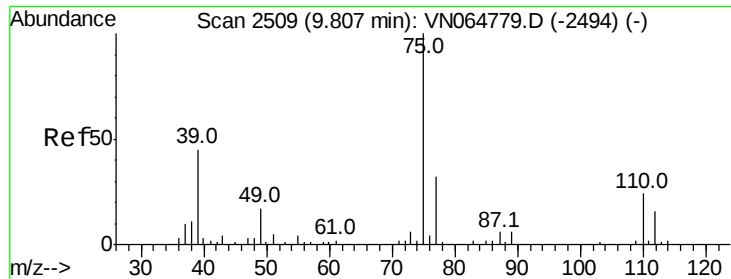
91 166.3 139.1 208.7



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

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





#54

cis-1,3-Dichloropropene

Concen: 8.109 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#08

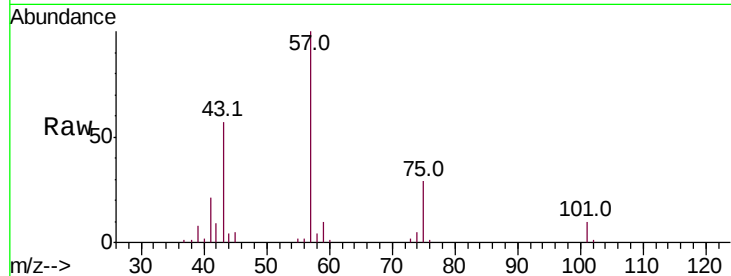
Tot Ion: 75 Resp: 30317

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

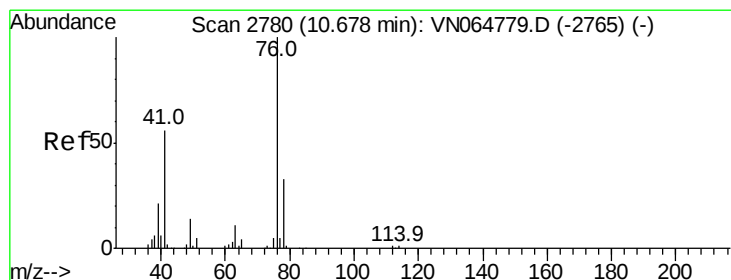
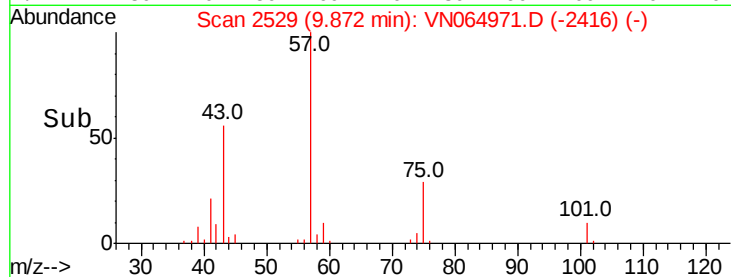
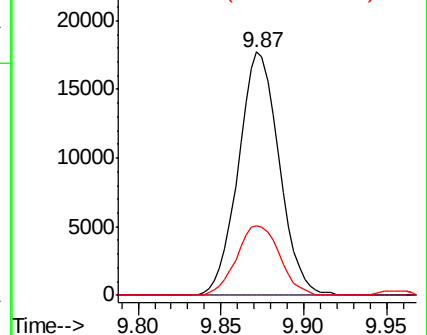
39 28.5 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 4.719 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064971.D

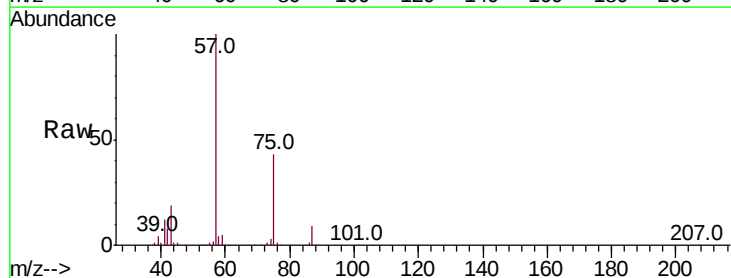
Acq: 8 Dec 2020 15:49

Tgt Ion: 76 Resp: 17733

Ion Ratio Lower Upper

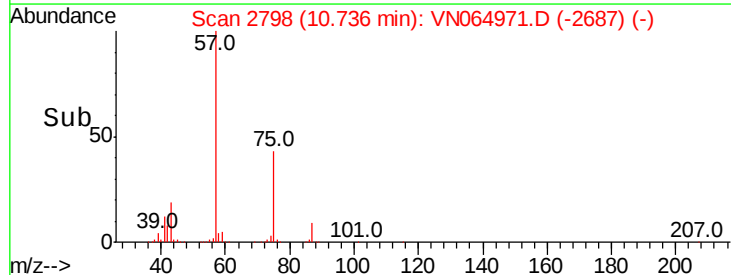
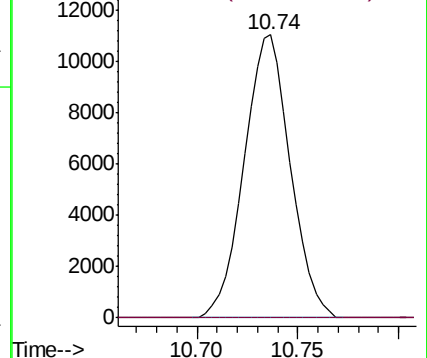
76 100

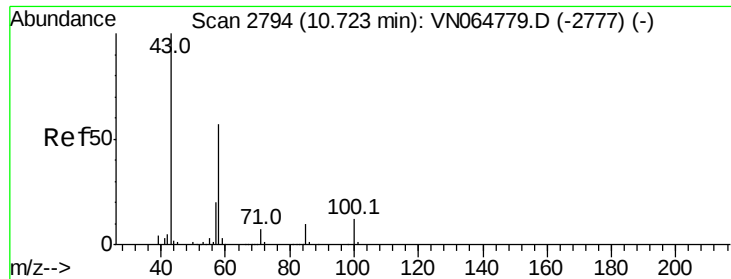
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

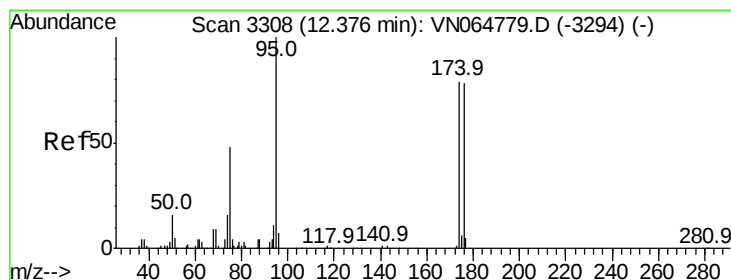
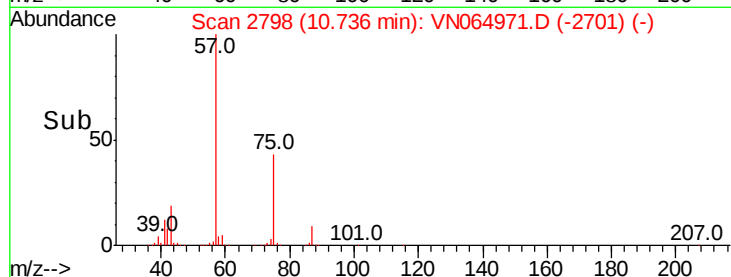
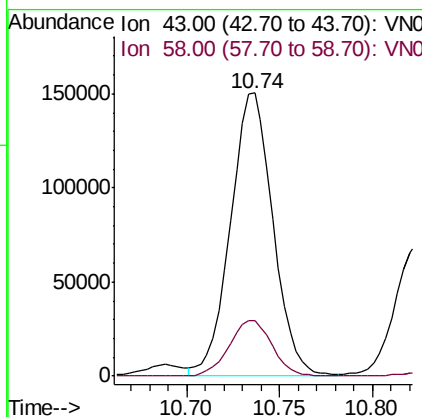
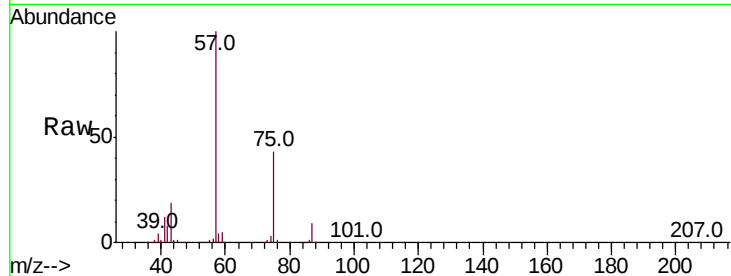




#59
2-Hexanone
Concen: 120.364 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

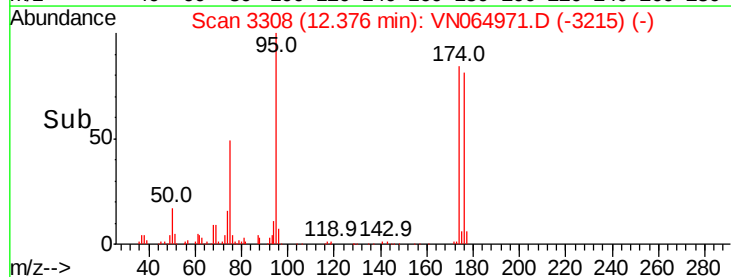
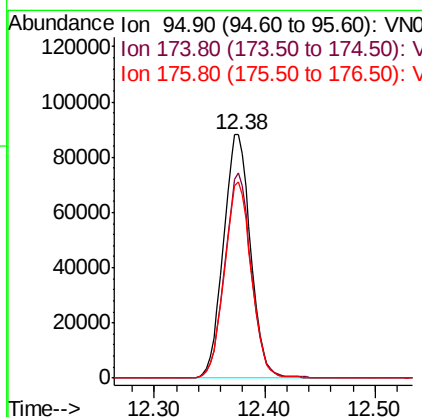
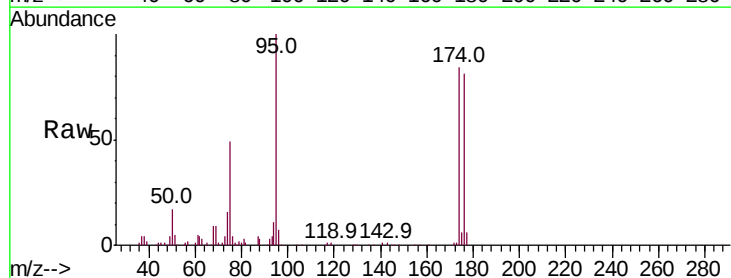
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#08

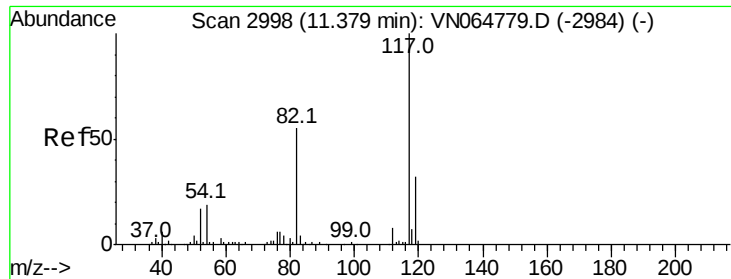
Tot Ion: 43 Resp: 236637
Ion Ratio Lower Upper
43 100
58 20.2 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 54.284 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

Tgt Ion: 95 Resp: 150431
Ion Ratio Lower Upper
95 100
174 82.0 0.0 160.4
176 79.8 0.0 158.4

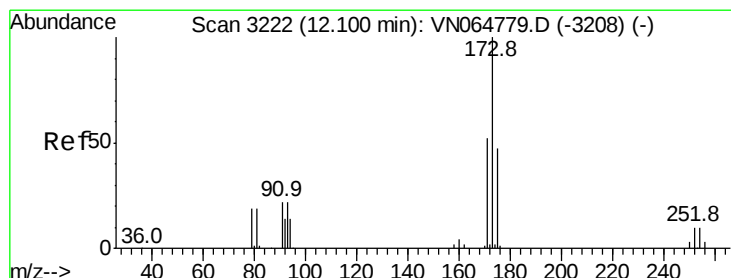
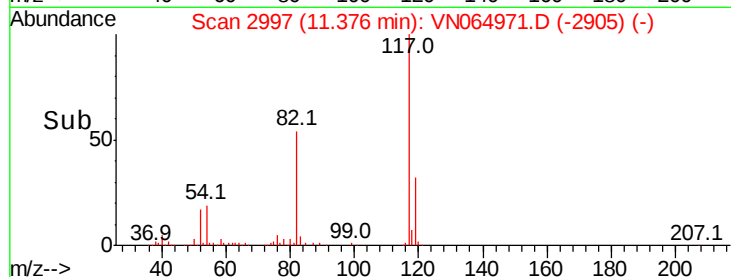
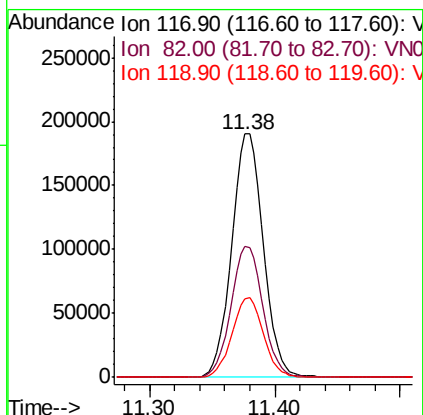
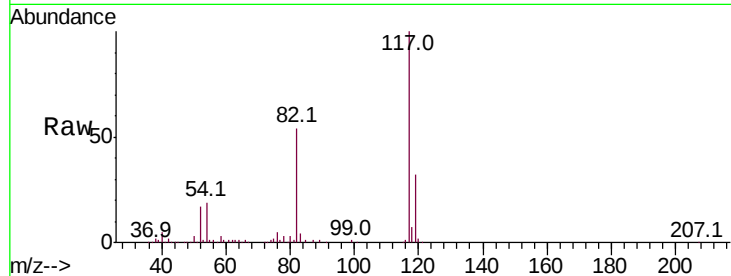




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

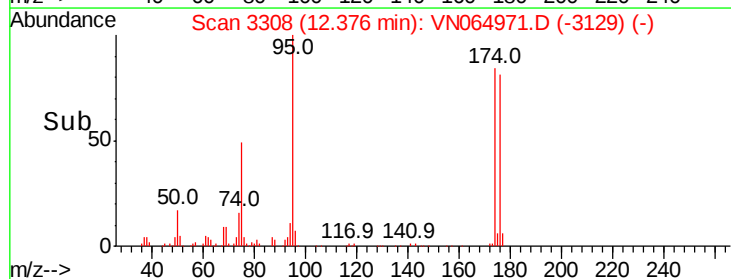
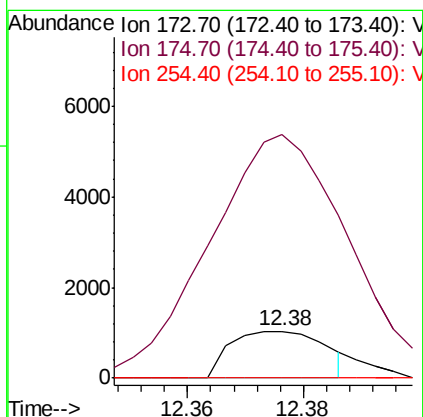
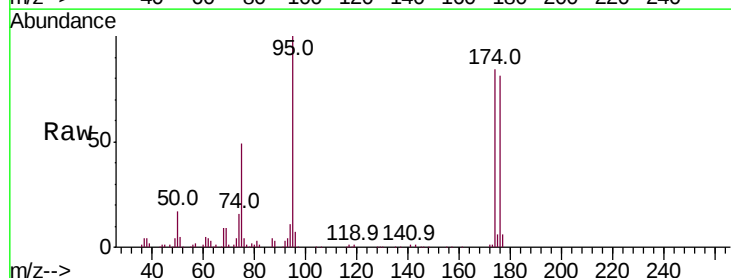
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#08

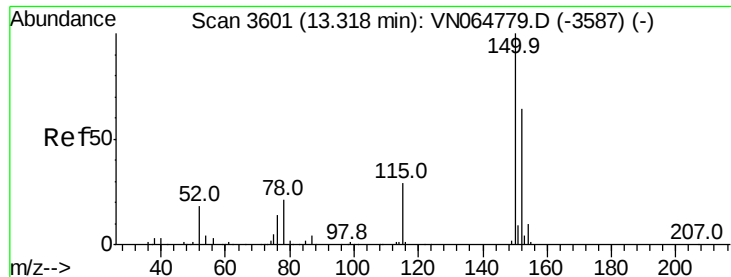
Tot Ion:117 Resp: 333679
Ion Ratio Lower Upper
117 100
82 53.8 44.2 66.2
119 32.3 25.8 38.6



#71
Bromoform
Concen: 0.558 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN064971.D
Acq: 8 Dec 2020 15:49

Tgt Ion:173 Resp: 1174
Ion Ratio Lower Upper
173 100
175 651.9 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# 3601

Delta R.T. 0.00 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#08

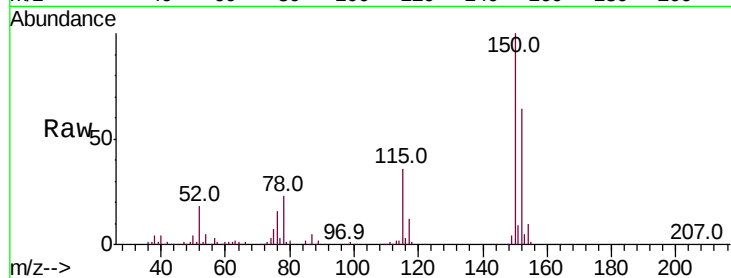
Tot Ion:152 Resp: 140817

Ion Ratio Lower Upper

152 100

115 58.1 29.7 89.1

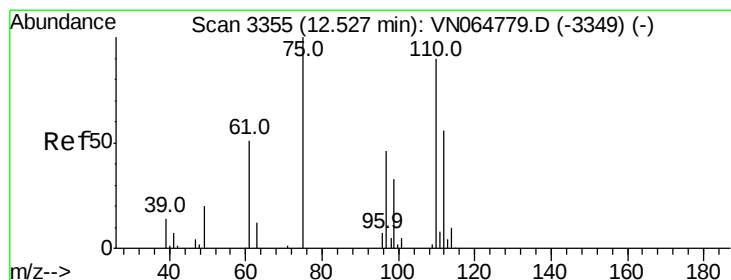
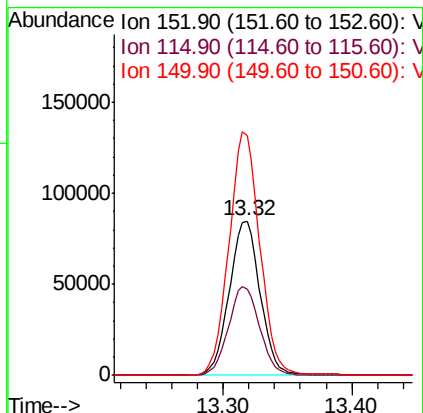
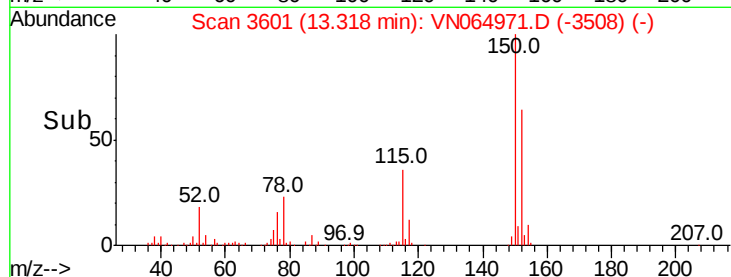
150 156.9 0.0 350.6



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: 23.704 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064971.D

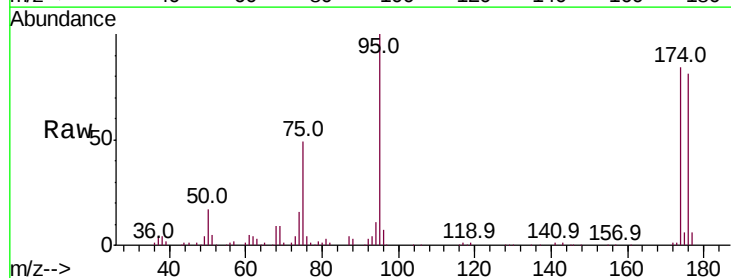
Acq: 8 Dec 2020 15:49

Tgt Ion: 75 Resp: 71886

Ion Ratio Lower Upper

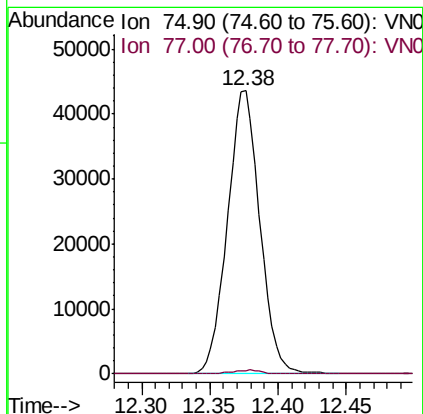
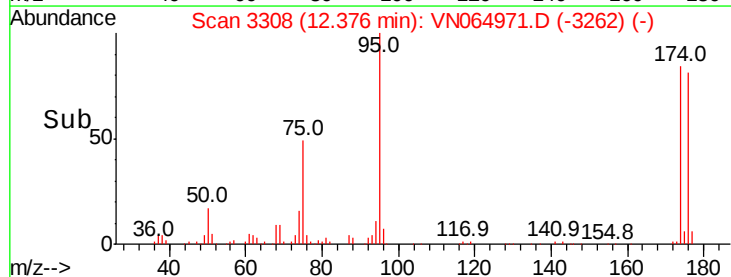
75 100

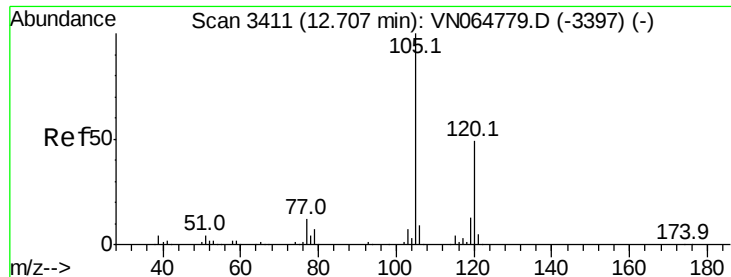
77 1.2 0.0 0.0#



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: 0.289 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

Instrument :

MSVOA_N

ClientSampleId :

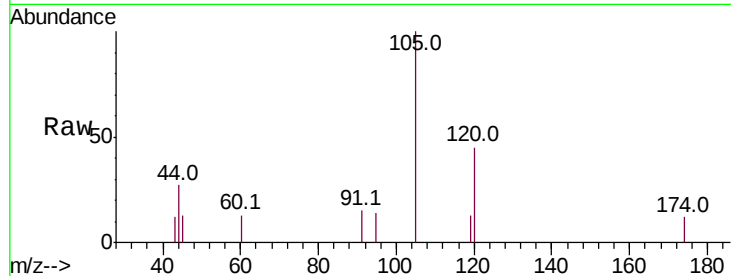
PB133456ZHE#08

Tot Ion:105 Resp: 2353

Ion Ratio Lower Upper

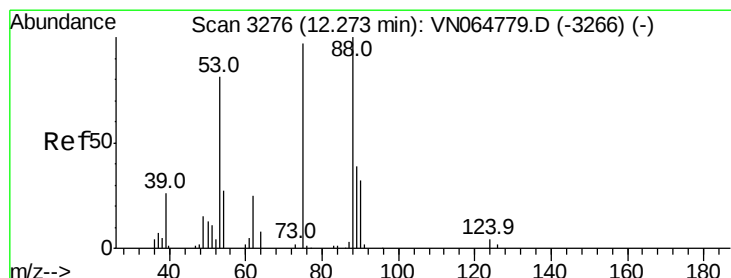
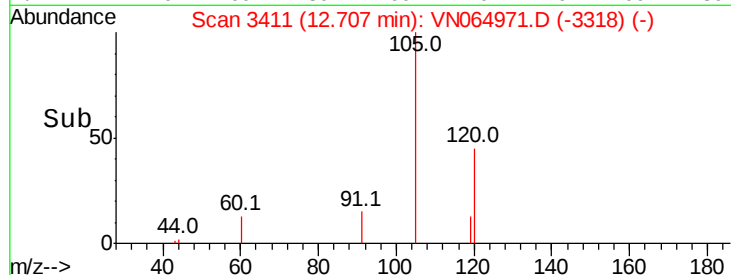
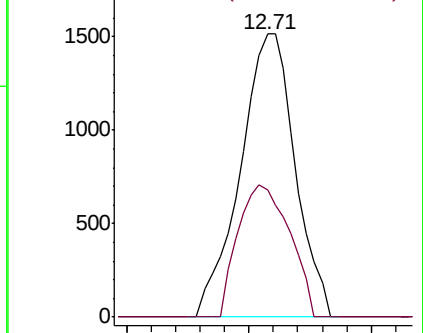
105 100

120 44.4 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 64.968 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064971.D

Acq: 8 Dec 2020 15:49

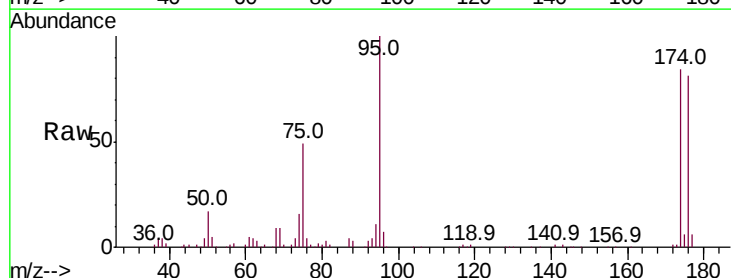
Tgt Ion: 75 Resp: 71886

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

