

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120920\
 Data File : VN065022.D
 Acq On : 9 Dec 2020 15:50
 Operator : JC/MD
 Sample : PB133472ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#03

Quant Time: Dec 10 04:08:16 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	164903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	312561	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	331228	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	136758	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	106649	55.63	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	111.26%
35) Dibromofluoromethane	7.55	113	99121	53.00	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	106.00%
50) Toluene-d8	10.06	98	402315	52.65	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	105.30%
62) 4-Bromofluorobenzene	12.38	95	147940	54.09	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	108.18%

Target Compounds

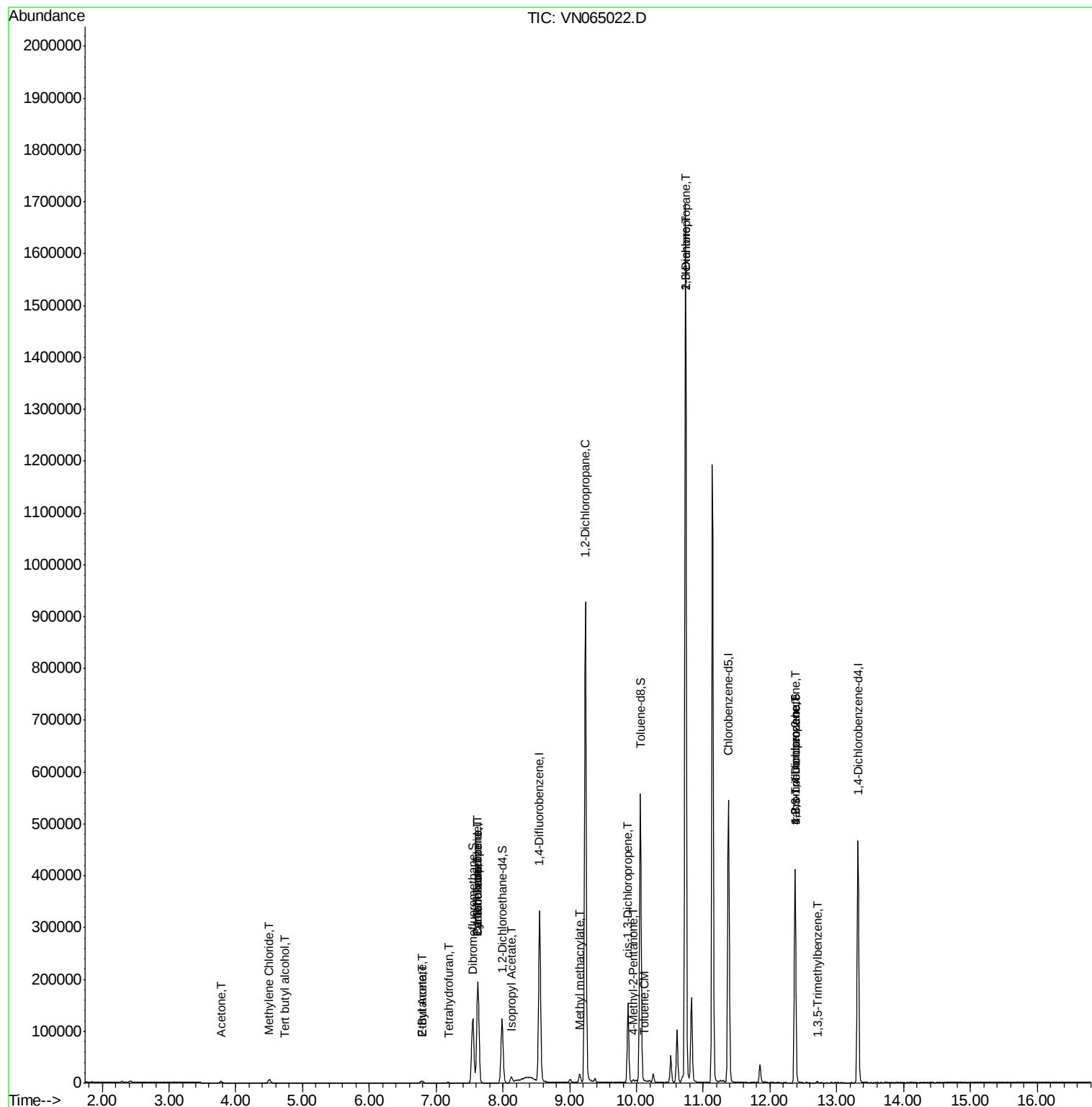
						Qvalue
11) Tert butyl alcohol	4.74	59	90	0.301	ug/l #	73
16) Acetone	3.78	43	5918	9.391	ug/l	98
20) Methylene Chloride	4.51	84	5247	2.657	ug/l	89
25) 2-Butanone	6.78	43	836	0.818	ug/l #	49
29) Tetrahydrofuran	7.18	42	1203	1.706	ug/l #	45
31) Cyclohexane	7.62	56	2957	1.107	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	11807	4.075	ug/l #	49
37) Ethyl Acetate	6.80	43	1774	0.636	ug/l #	66
38) Carbon Tetrachloride	7.62	117	15717	5.214	ug/l #	15
43) Isopropyl Acetate	8.13	43	16087	3.582	ug/l	95
45) 1,2-Dichloropropane	9.24	63	1124	0.489	ug/l #	43
48) Methyl methacrylate	9.14	41	4130	1.925	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	3552	1.318	ug/l	96
52) Toluene	10.13	92	1468	0.269	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	27878	7.556	ug/l #	65
57) 1,3-Dichloropropane	10.74	76	17715	4.777	ug/l #	42
59) 2-Hexanone	10.74	43	230328	118.713	ug/l #	51
76) 1,2,3-Trichloropropane	12.37	75	71020	24.114	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1771	0.224	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.37	75	71020	66.090	ug/l #	15

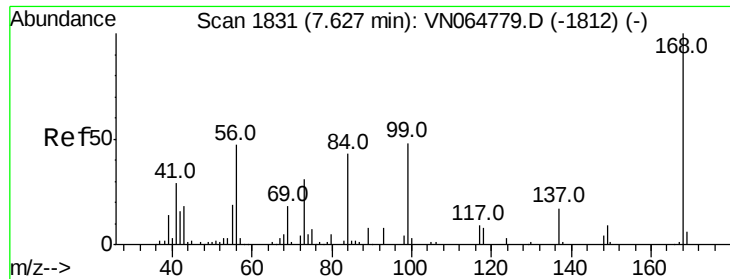
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120920\
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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: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

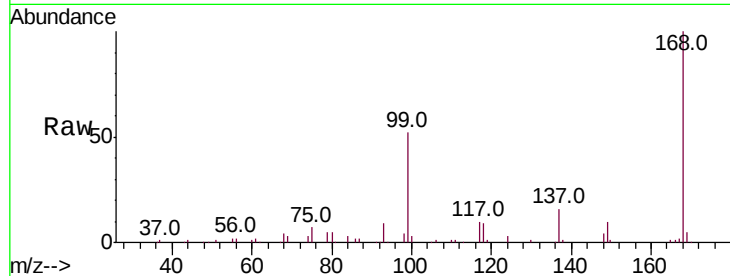
PB133472ZHE#03

Tot Ion:168 Resp: 164903

Ion Ratio Lower Upper

168 100

99 51.6 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN064779.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN064779.D (-1812) (-)

7.63

80000

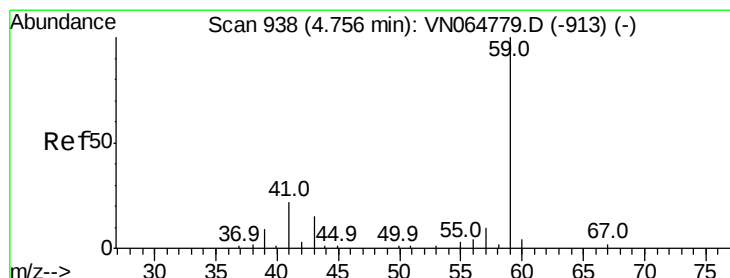
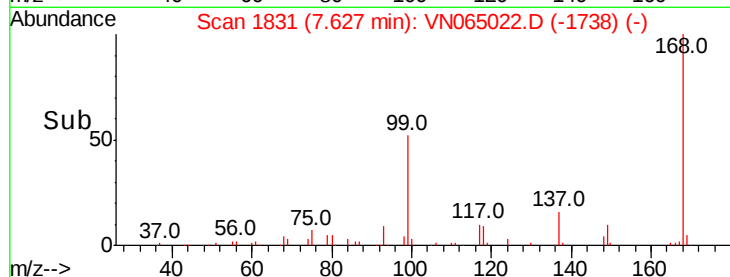
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.301 ug/l

RT: 4.74 min Scan# 932

Delta R.T. -0.02 min

Lab File: VN065022.D

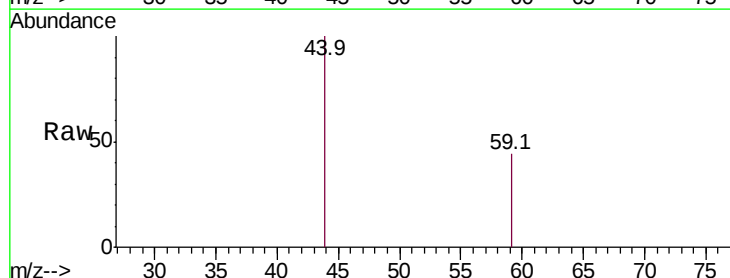
Acq: 9 Dec 2020 15:50

Tgt Ion: 59 Resp: 90

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



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

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

4.74

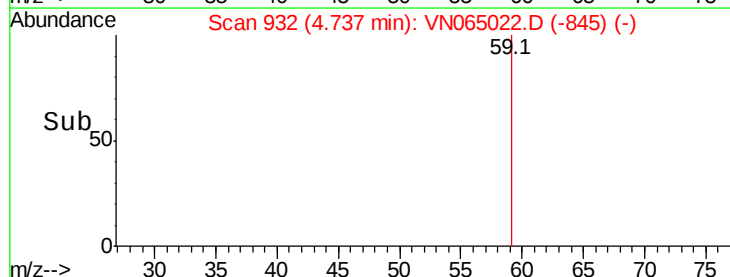
150

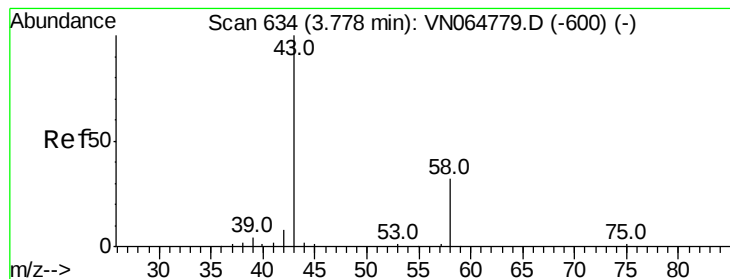
100

50

0

Time--> 4.72 4.73 4.74 4.75





#16

Acetone

Concen: 9.391 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

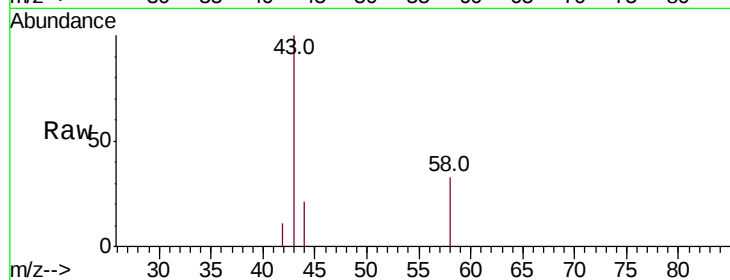
PB133472ZHE#03

Tot Ion: 43 Resp: 5918

Ion Ratio Lower Upper

43 100

58 33.0 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

2500

2000

1500

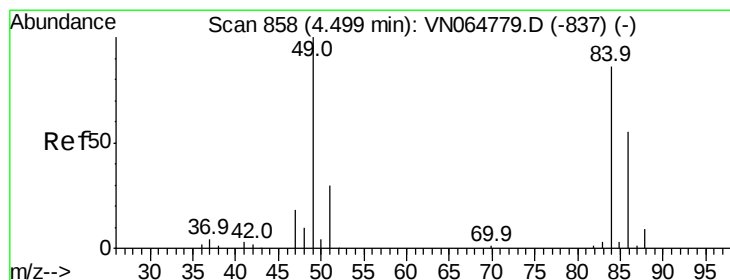
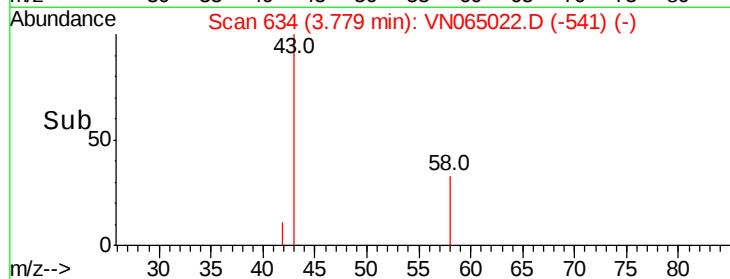
1000

500

0

Time-->

3.70 3.75 3.80 3.85



#20

Methylene Chloride

Concen: 2.657 ug/l

RT: 4.51 min Scan# 861

Delta R.T. 0.01 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Tgt Ion: 84 Resp: 5247

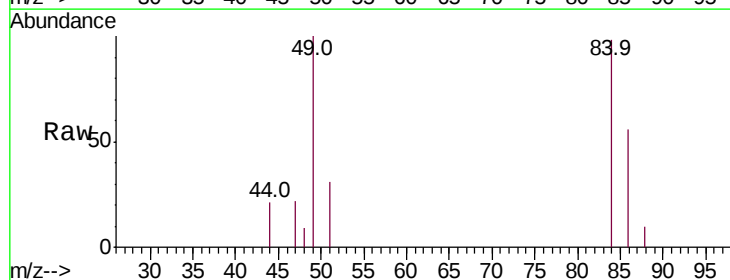
Ion Ratio Lower Upper

84 100

49 102.5 93.4 140.0

51 32.0 28.2 42.4

86 57.3 51.7 77.5



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

3000

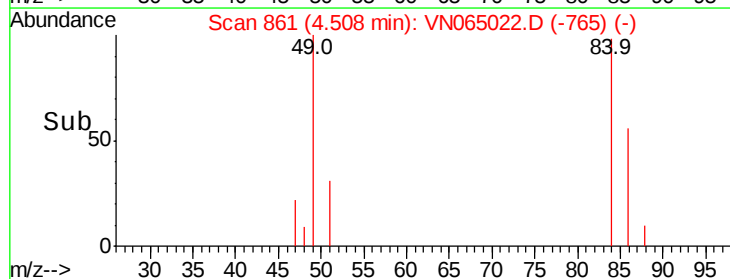
2000

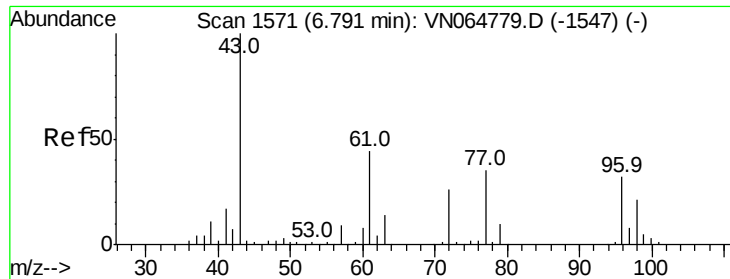
1000

0

Time-->

4.45 4.50 4.55

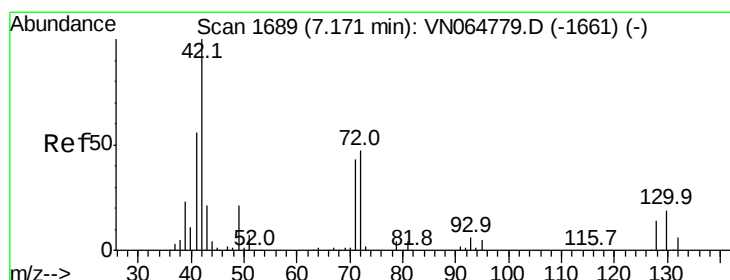
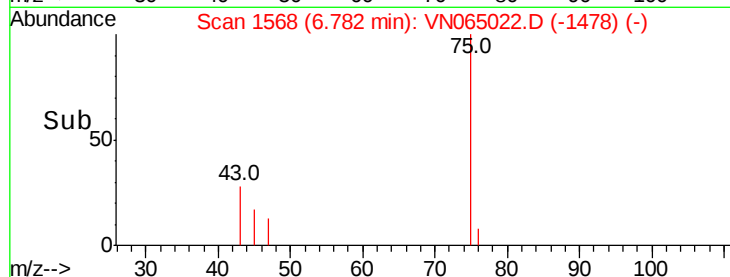
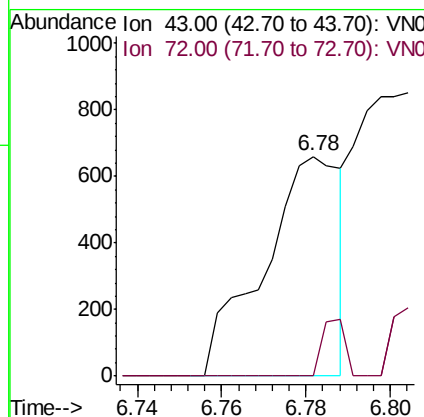
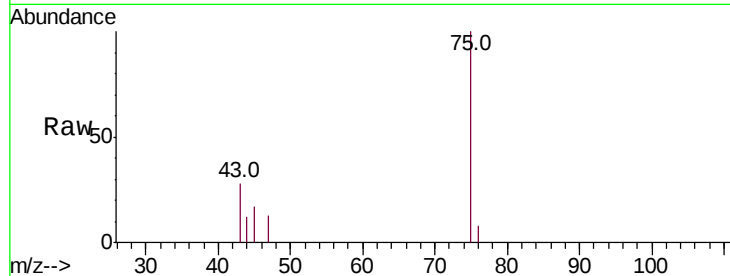




#25
2-Butanone
Concen: 0.818 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. -0.01 min
Lab File: VN065022.D
Acq: 9 Dec 2020 15:50

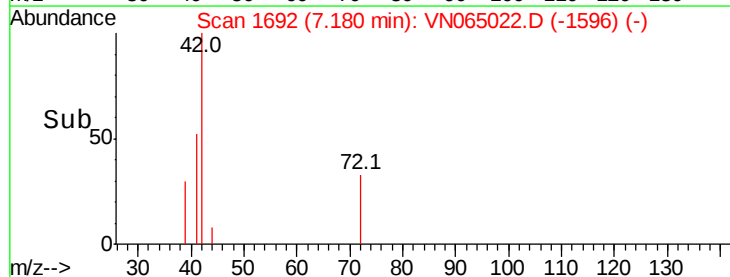
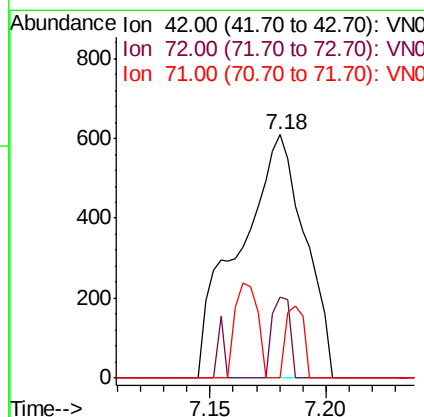
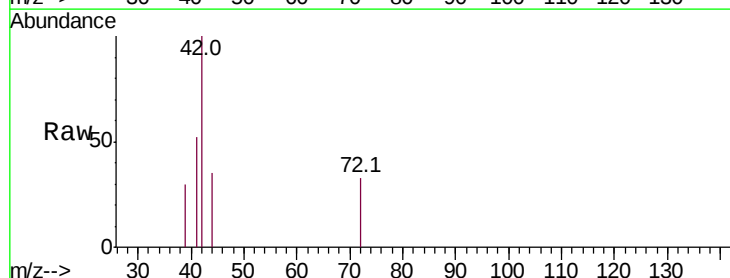
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#03

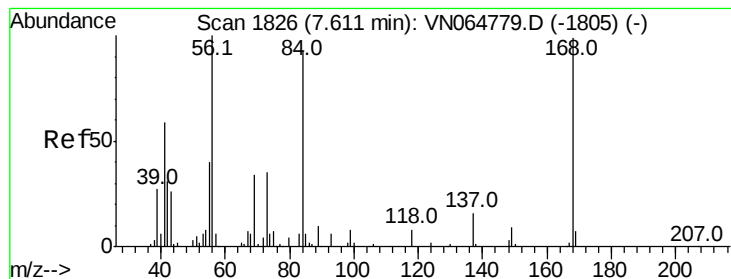
Tot Ion: 43 Resp: 836
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



#29
Tetrahydrofuran
Concen: 1.706 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VN065022.D
Acq: 9 Dec 2020 15:50

Tgt Ion: 42 Resp: 1203
Ion Ratio Lower Upper
42 100
72 9.1 36.6 54.8#
71 8.1 33.6 50.4#





#31

Cyclohexane

Concen: 1.107 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#03

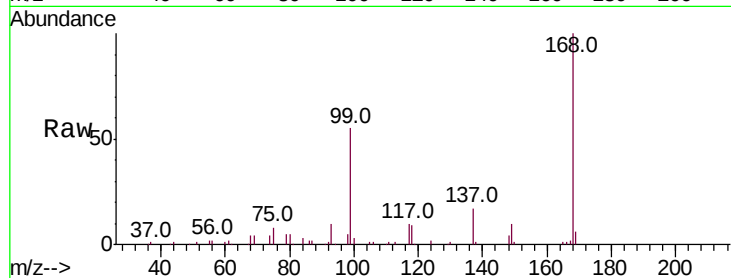
Tot Ion: 56 Resp: 2957

Ion Ratio Lower Upper

56 100

69 148.2 27.5 41.3#

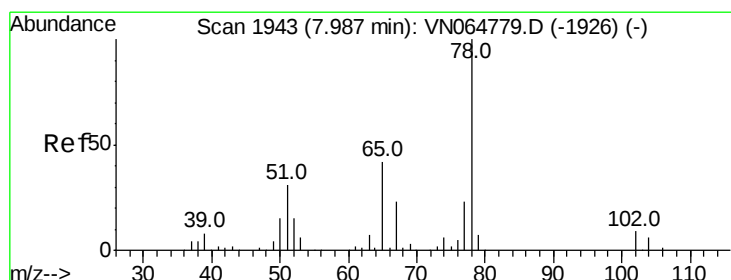
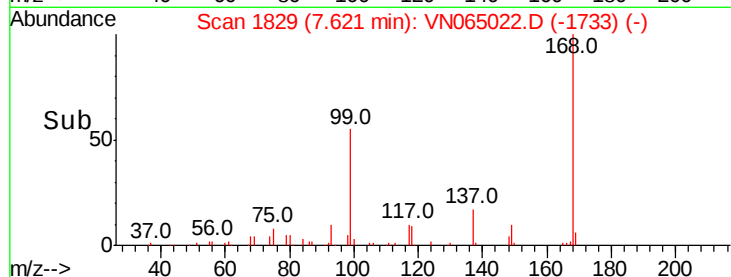
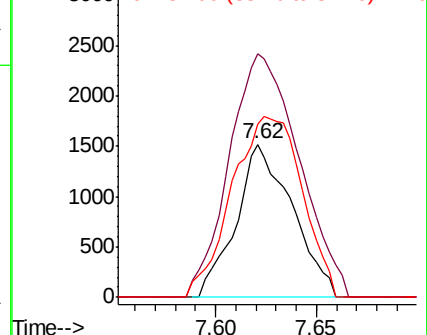
84 113.4 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.630 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065022.D

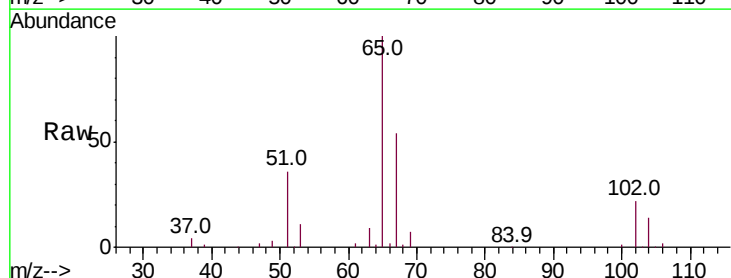
Acq: 9 Dec 2020 15:50

Tgt Ion: 65 Resp: 106649

Ion Ratio Lower Upper

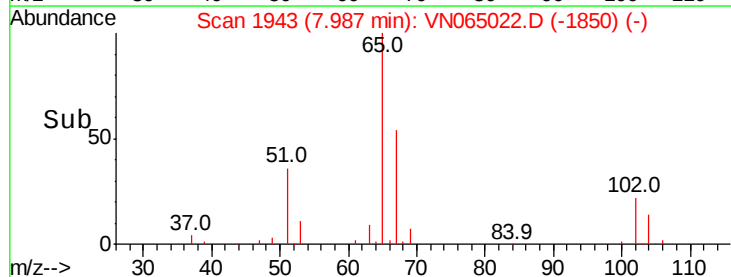
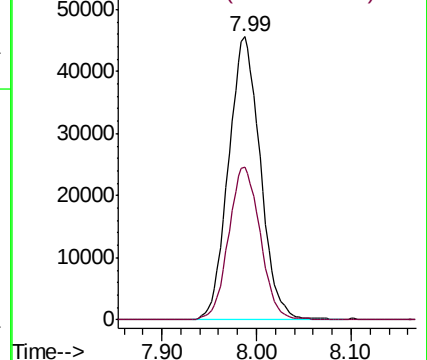
65 100

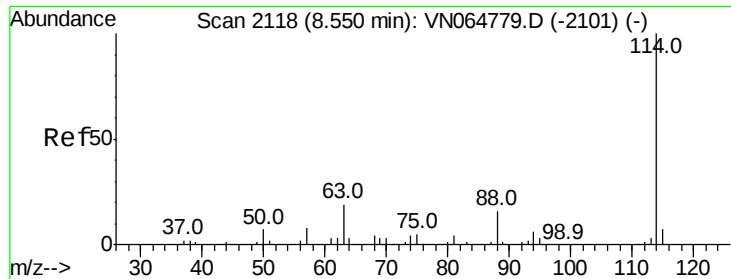
67 53.5 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

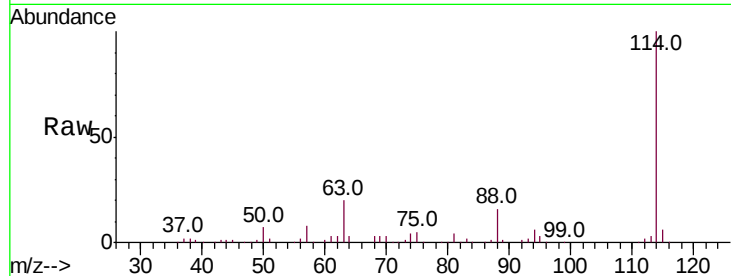




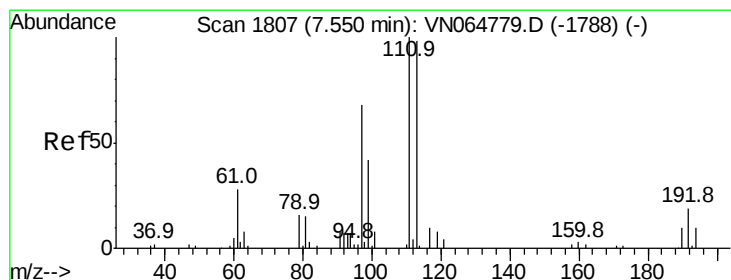
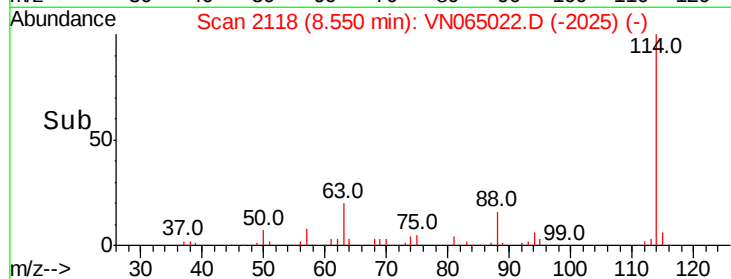
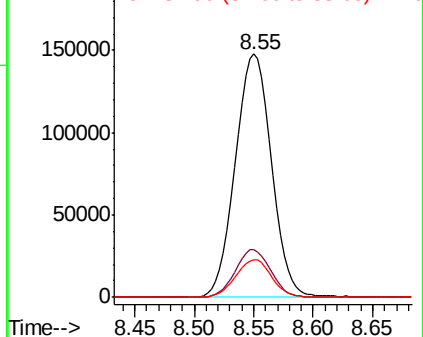
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065022.D
 Acq: 9 Dec 2020 15:50

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#03

Tot Ion:	114	Resp:	312561
Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	38.6
88	15.6	0.0	32.6

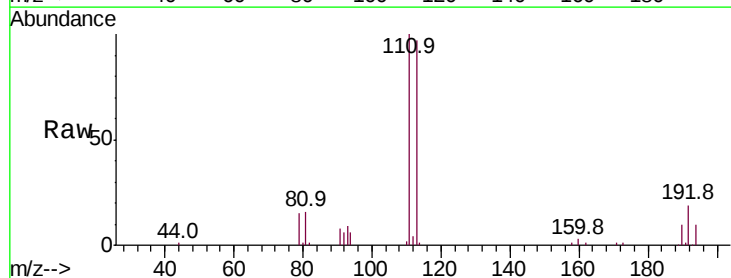


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

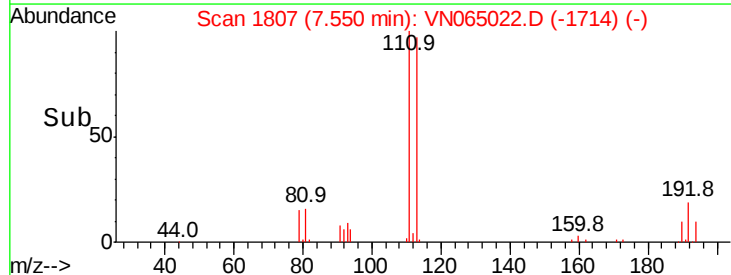
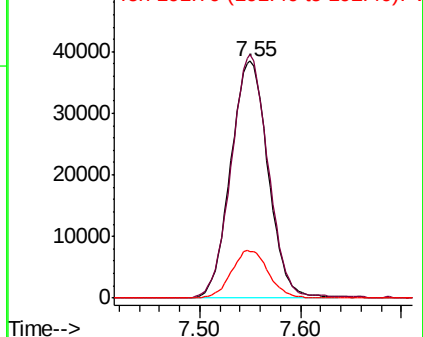


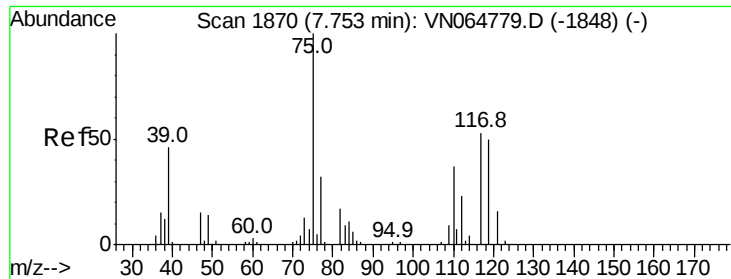
#35
 Dibromofluoromethane
 Concen: 52.998 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN065022.D
 Acq: 9 Dec 2020 15:50

Tgt Ion:	113	Resp:	99121
Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.6	122.4
192	19.6	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: 4.075 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#03

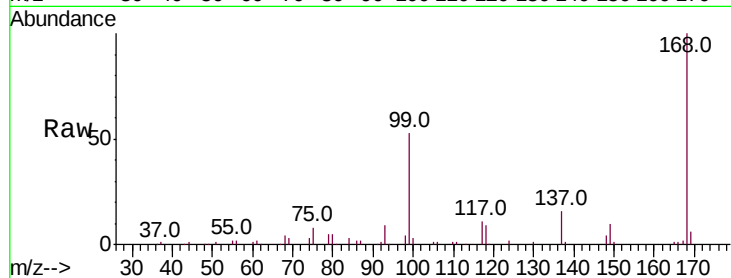
Tot Ion: 75 Resp: 11807

Ion Ratio Lower Upper

75 100

110 8.1 17.8 53.3#

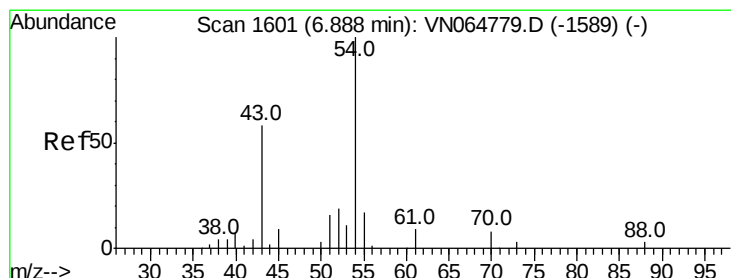
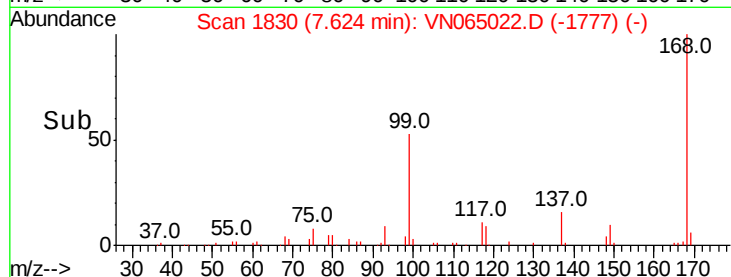
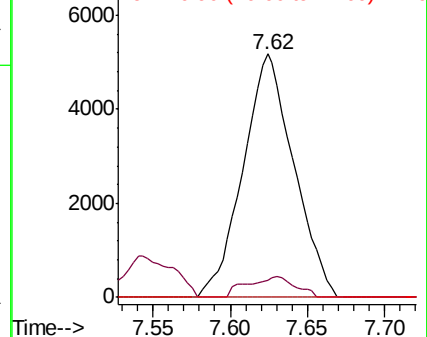
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.636 ug/l

RT: 6.80 min Scan# 1575

Delta R.T. -0.08 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

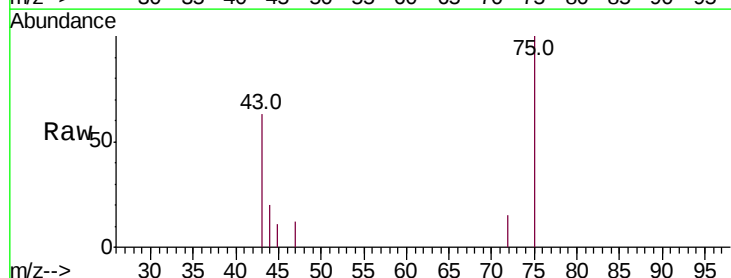
Tgt Ion: 43 Resp: 1774

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

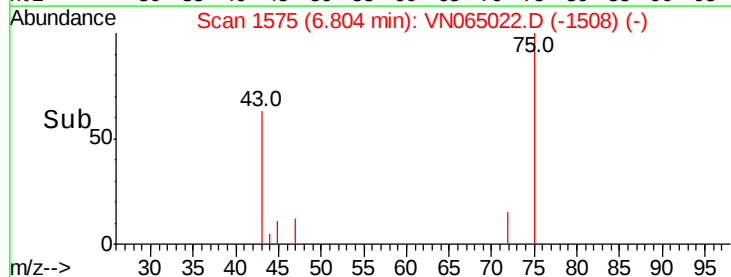
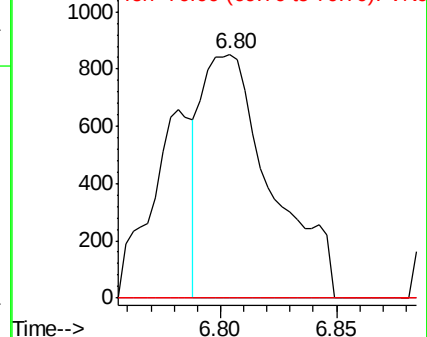
70 0.0 8.8 13.2#

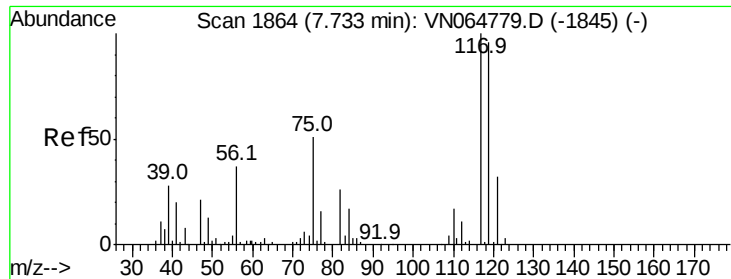


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.214 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#03

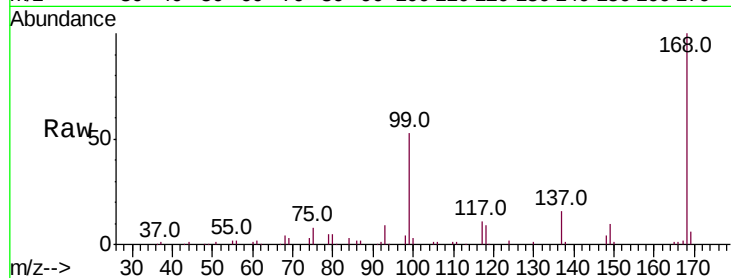
Tot Ion:117 Resp: 15717

Ion Ratio Lower Upper

117 100

119 4.4 76.7 115.1#

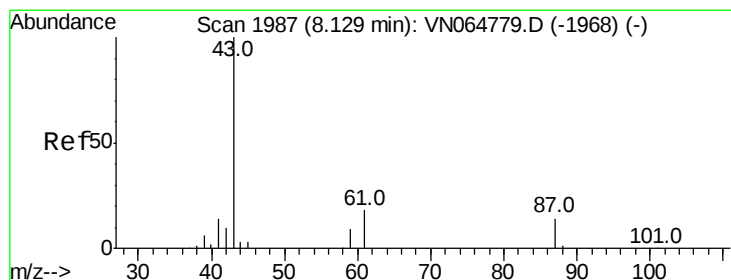
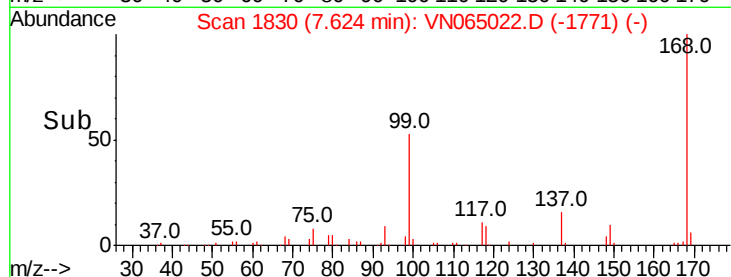
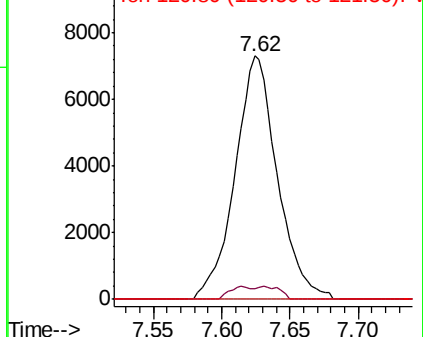
121 0.0 25.4 38.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 3.582 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

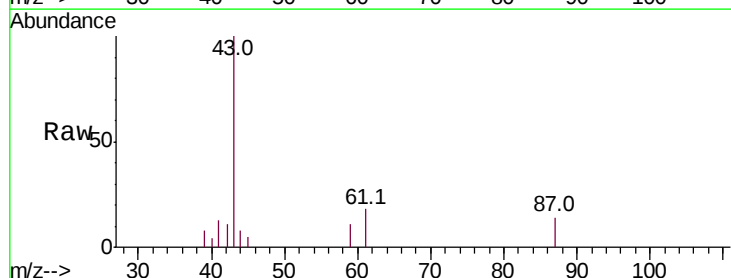
Tgt Ion: 43 Resp: 16087

Ion Ratio Lower Upper

43 100

61 18.5 17.2 25.8

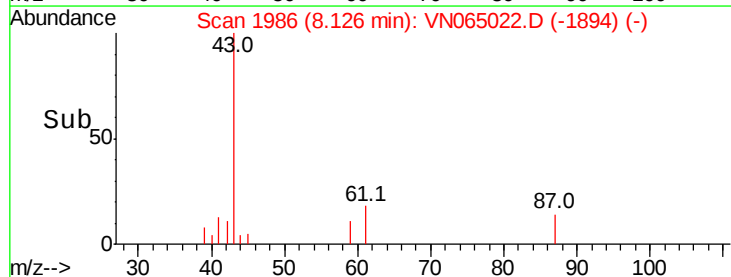
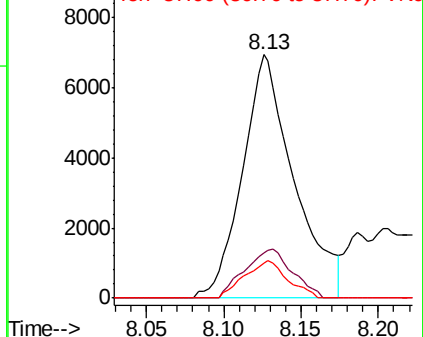
87 12.8 11.4 17.0

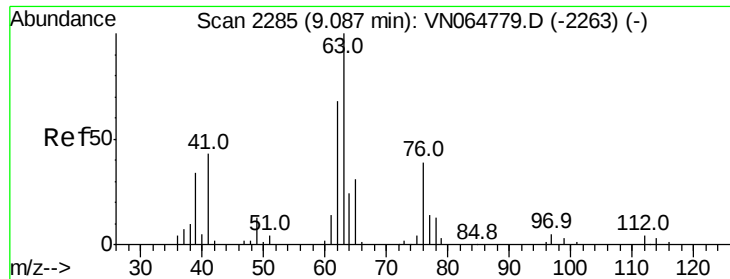


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

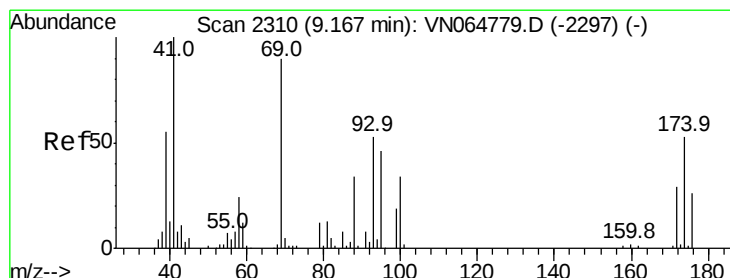
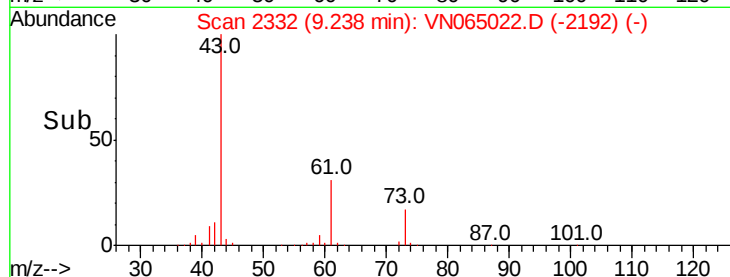
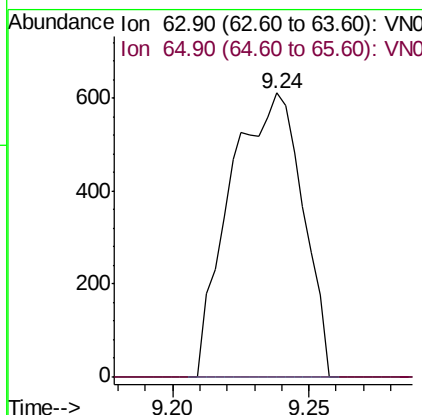
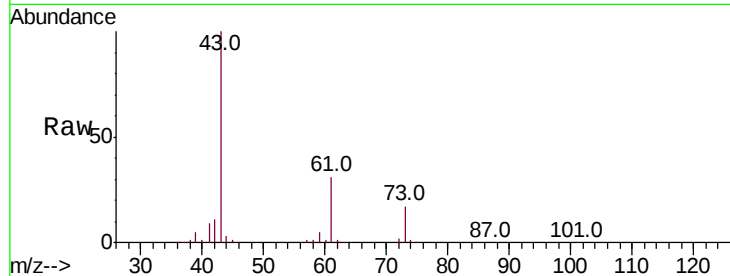




#45
 1,2-Dichloropropane
 Concen: 0.489 ug/l
 RT: 9.24 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN065022.D
 Acq: 9 Dec 2020 15:50

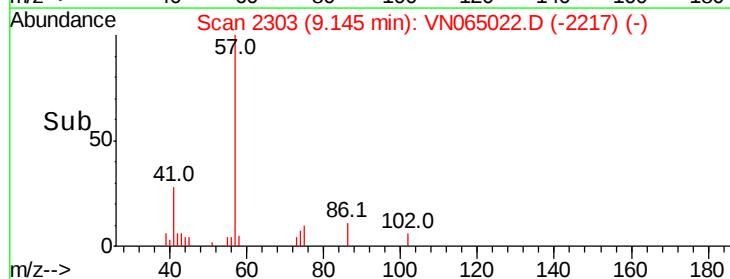
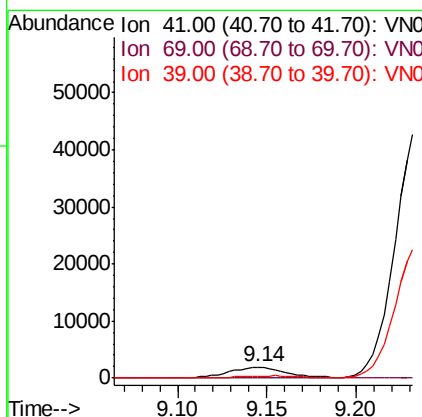
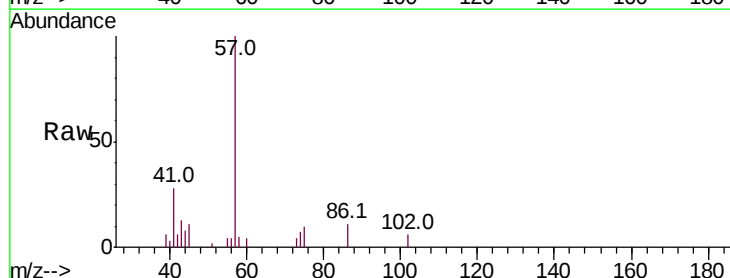
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#03

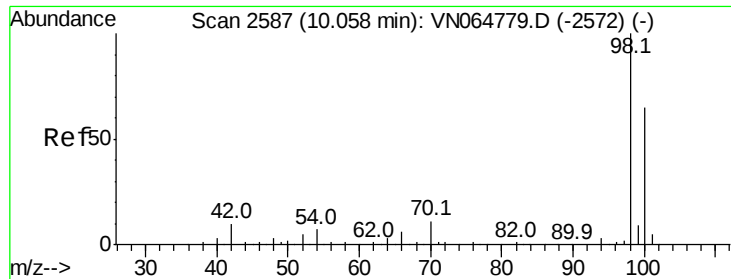
Tot Ion: 63 Resp: 1124
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.925 ug/l
 RT: 9.14 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN065022.D
 Acq: 9 Dec 2020 15:50

Tgt Ion: 41 Resp: 4130
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 52.647 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

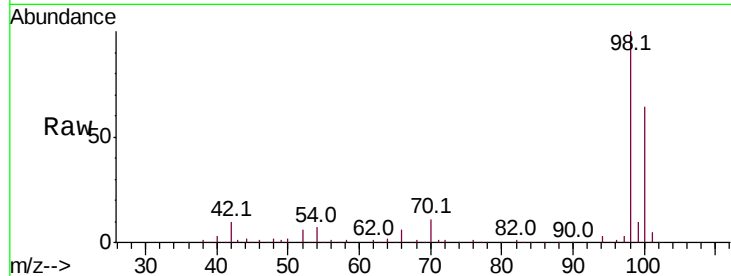
PB133472ZHE#03

Tot Ion: 98 Resp: 402315

Ion Ratio Lower Upper

98 100

100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

250000

200000

150000

100000

50000

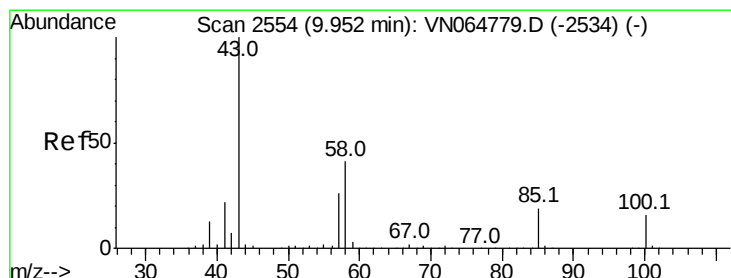
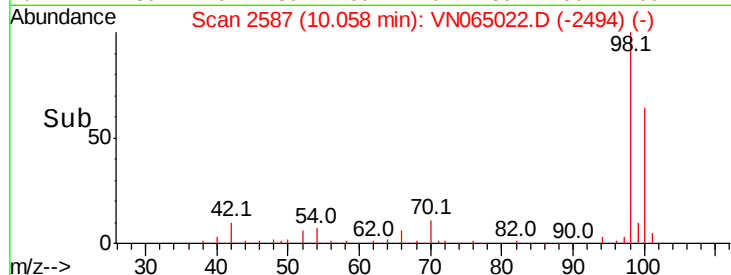
0

10.00

10.10

10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.318 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN065022.D

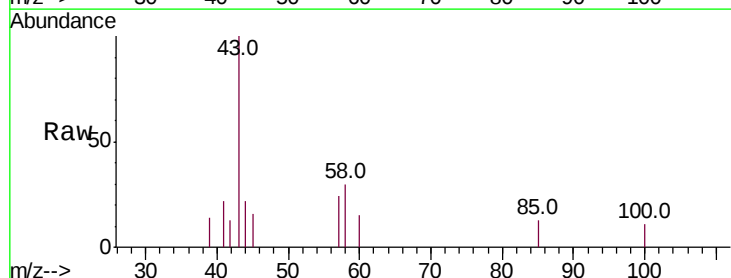
Acq: 9 Dec 2020 15:50

Tgt Ion: 43 Resp: 3552

Ion Ratio Lower Upper

43 100

58 38.1 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

4000

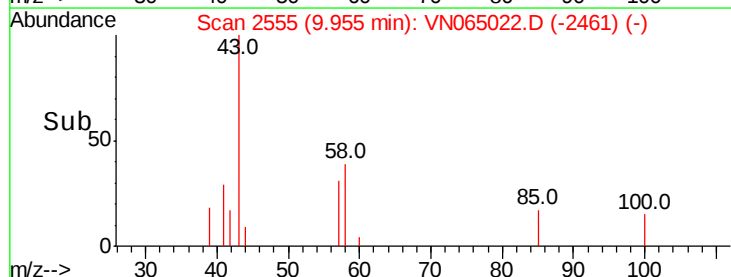
2000

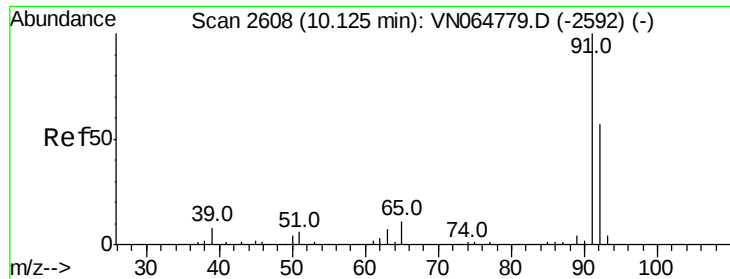
0

9.90

9.95

Time-->





#52

Toluene

Concen: 0.269 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

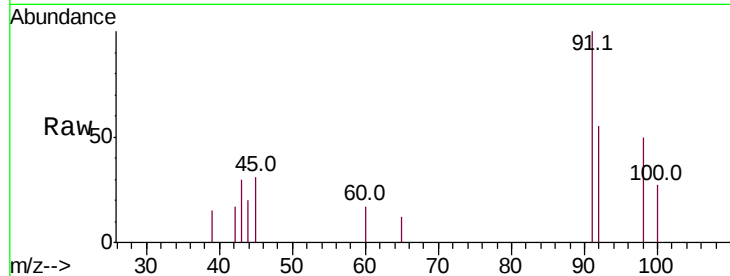
PB133472ZHE#03

Tot Ion: 92 Resp: 1468

Ion Ratio Lower Upper

92 100

91 183.2 139.1 208.7



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

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

1500

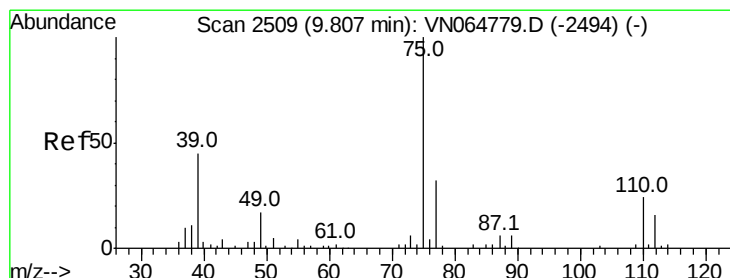
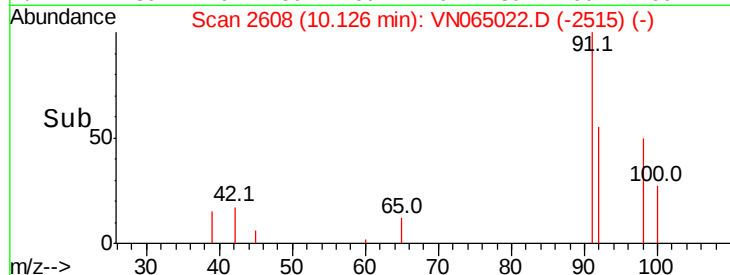
1000

500

0

10.10 10.13 10.15

Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.556 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

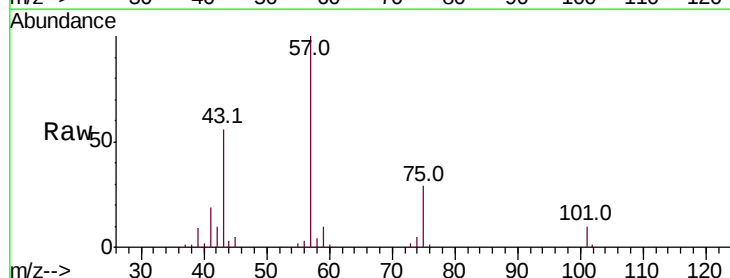
Tgt Ion: 75 Resp: 27878

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 31.7 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-2494) (-)

Ion 76.90 (76.60 to 77.60): VN064779.D (-2494) (-)

Ion 39.00 (38.70 to 39.70): VN064779.D (-2494) (-)

20000

15000

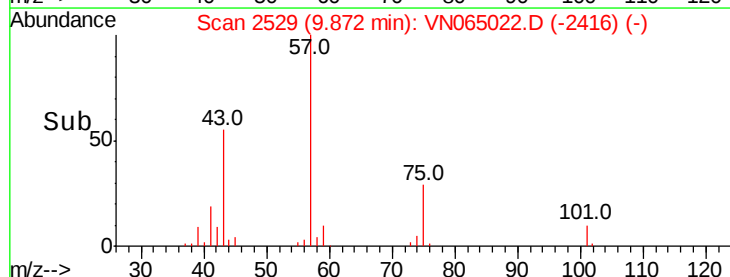
10000

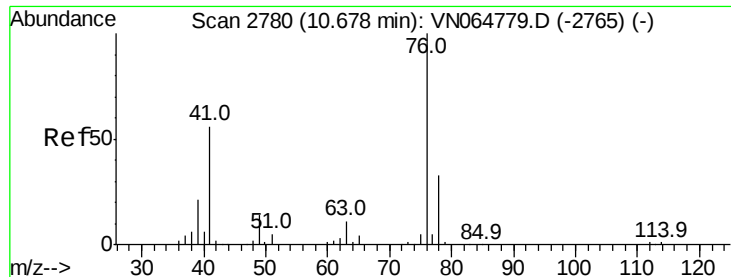
5000

0

9.80 9.85 9.87 9.90 9.95

Time-->





#57

1,3-Dichloropropane

Concen: 4.777 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

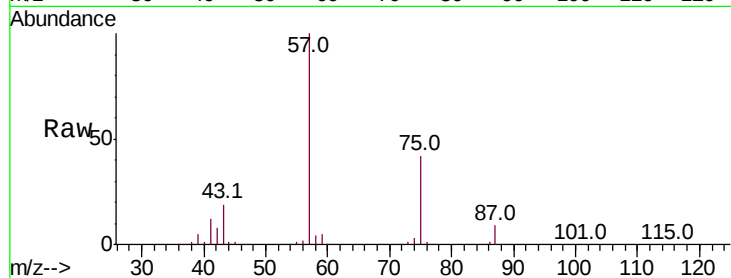
PB133472ZHE#03

Tot Ion: 76 Resp: 17715

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN064779.D (-2765) (-)

Ion 77.90 (77.60 to 78.60): VN064779.D (-2765) (-)

10.74

12000

10000

8000

6000

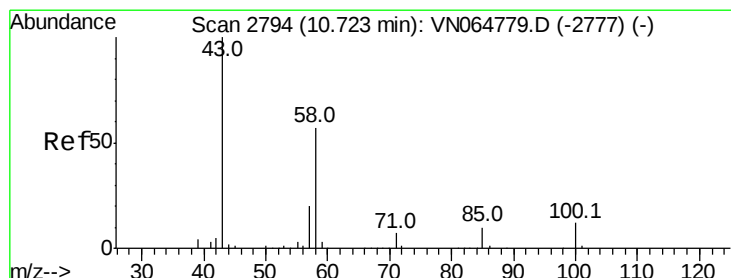
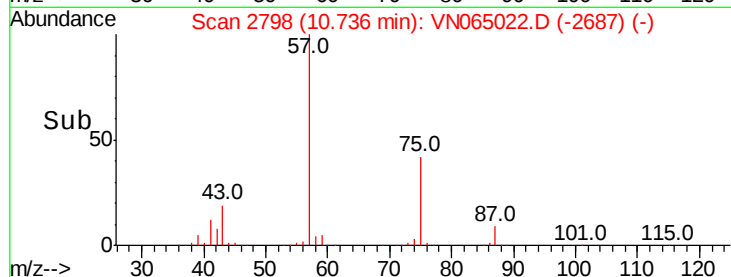
4000

2000

0

Time-->

10.70 10.75 10.80



#59

2-Hexanone

Concen: 118.713 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN065022.D

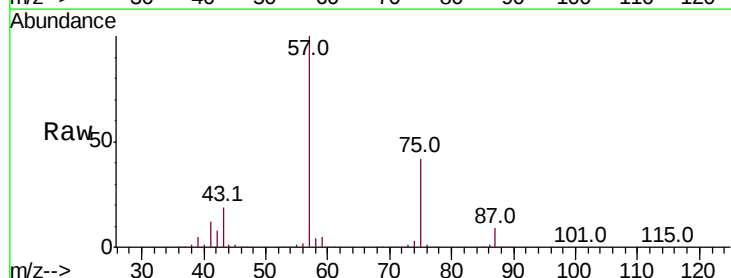
Acq: 9 Dec 2020 15:50

Tgt Ion: 43 Resp: 230328

Ion Ratio Lower Upper

43 100

58 20.6 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2777) (-)

Ion 58.00 (57.70 to 58.70): VN064779.D (-2777) (-)

10.74

150000

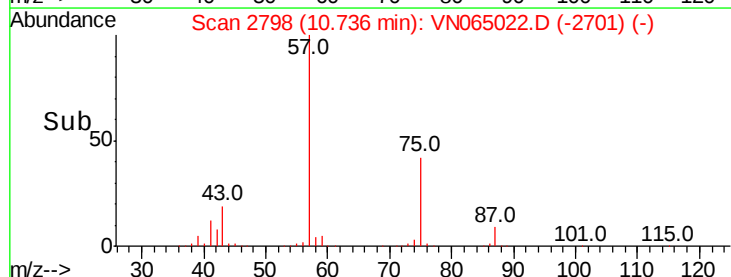
100000

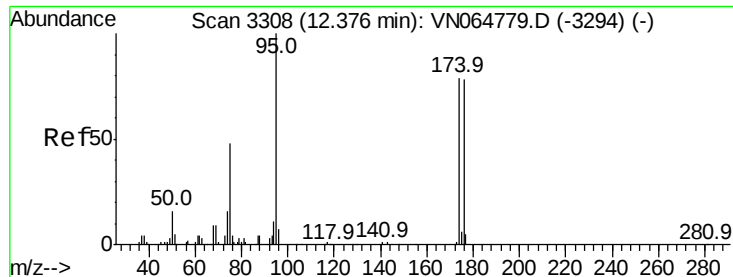
50000

0

Time-->

10.70 10.75 10.80

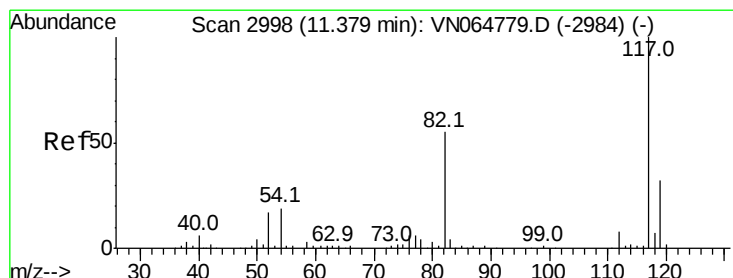
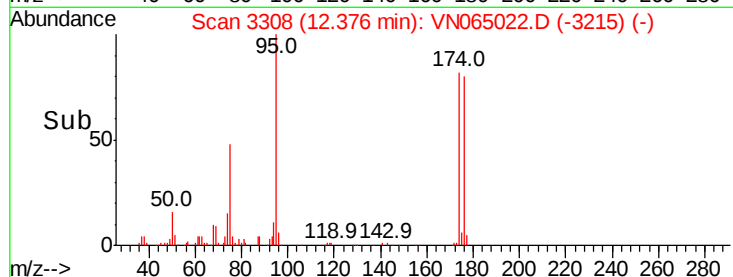
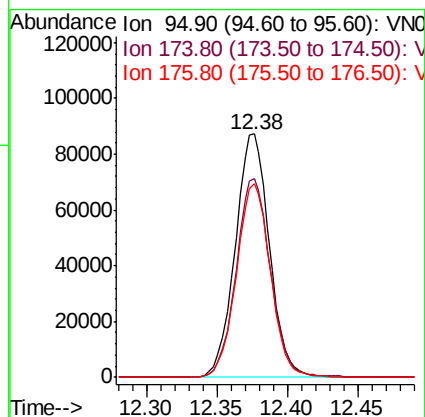
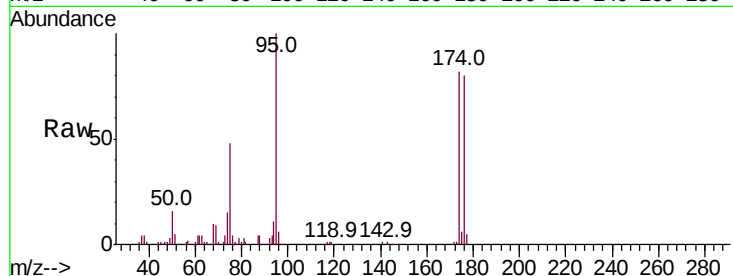




#62
4-Bromofluorobenzene
Concen: 54.095 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065022.D
Acq: 9 Dec 2020 15:50

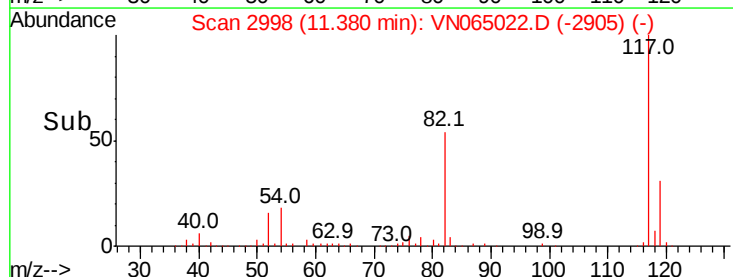
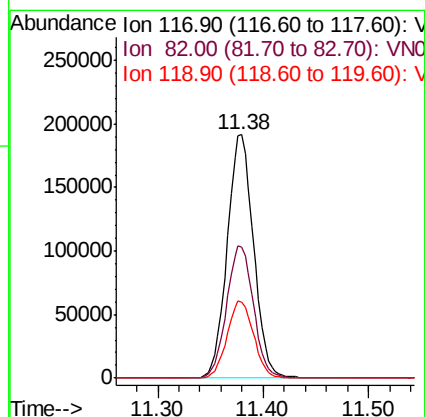
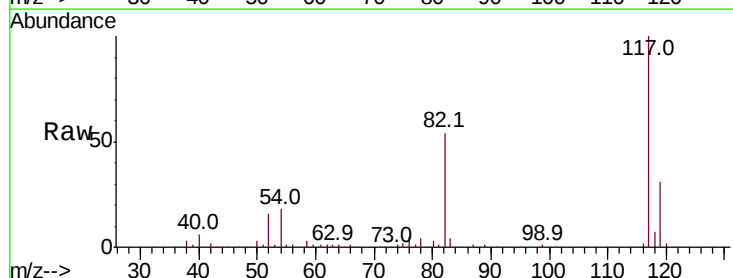
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#03

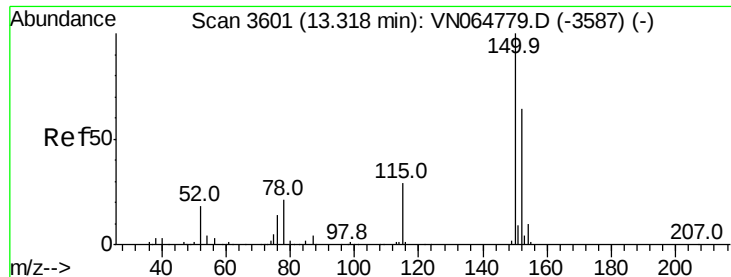
Tot Ion: 95 Resp: 147940
Ion Ratio Lower Upper
95 100
174 82.6 0.0 160.4
176 79.2 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065022.D
Acq: 9 Dec 2020 15:50

Tgt Ion: 117 Resp: 331228
Ion Ratio Lower Upper
117 100
82 54.0 44.2 66.2
119 31.5 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#03

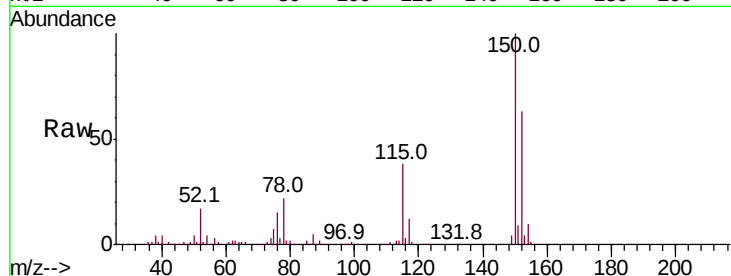
Tot Ion:152 Resp: 136758

Ion Ratio Lower Upper

152 100

115 58.9 29.7 89.1

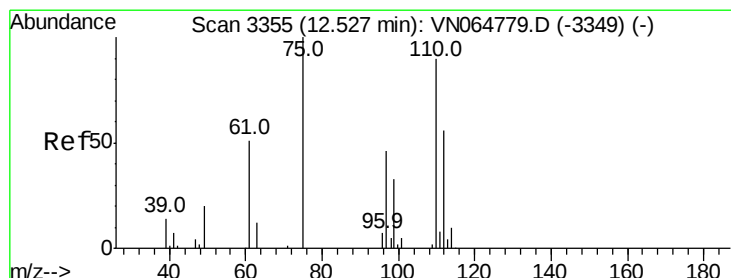
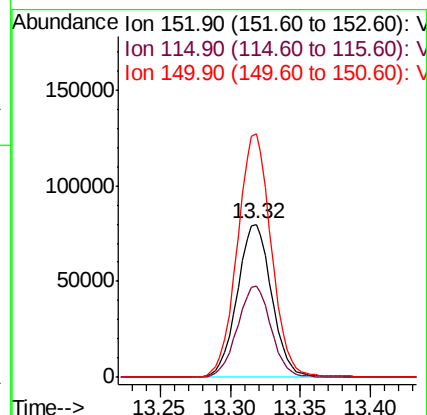
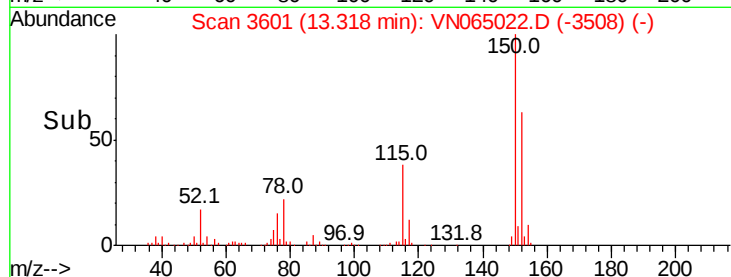
150 157.0 0.0 350.6



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: 24.114 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN065022.D

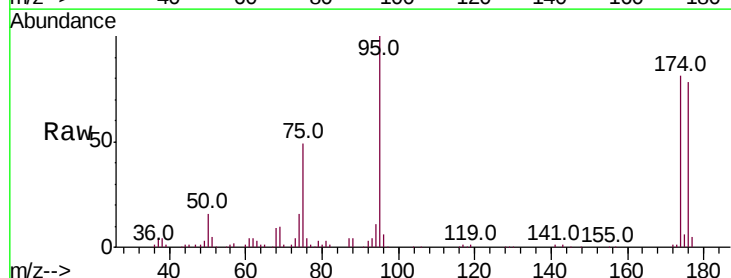
Acq: 9 Dec 2020 15:50

Tgt Ion: 75 Resp: 71020

Ion Ratio Lower Upper

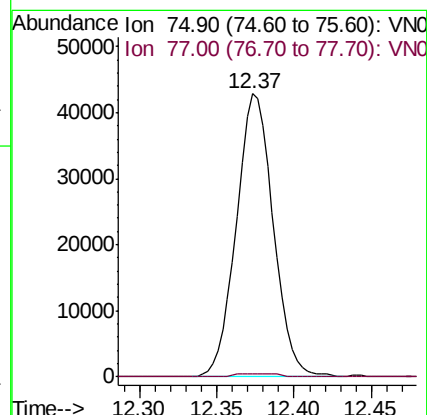
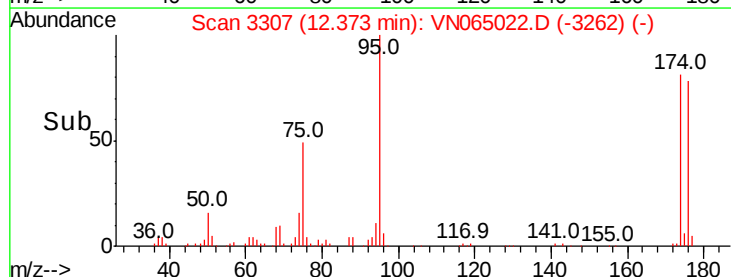
75 100

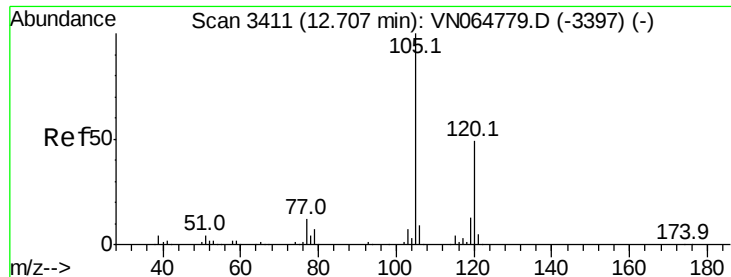
77 0.7 0.0 0.0#



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: 0.224 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Instrument :

MSVOA_N

ClientSampleId :

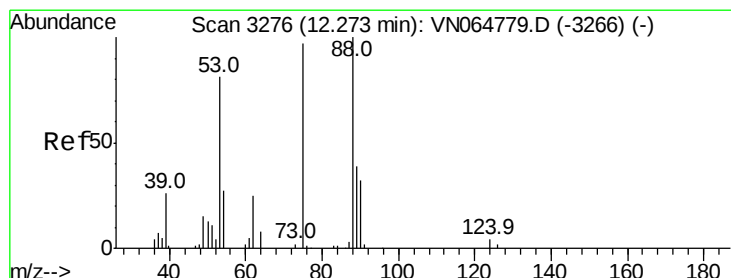
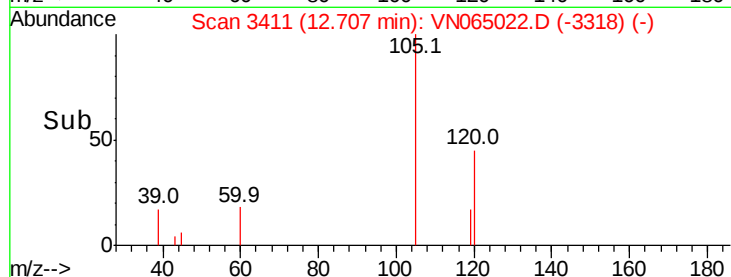
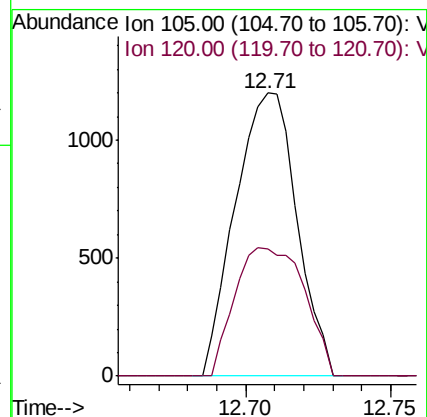
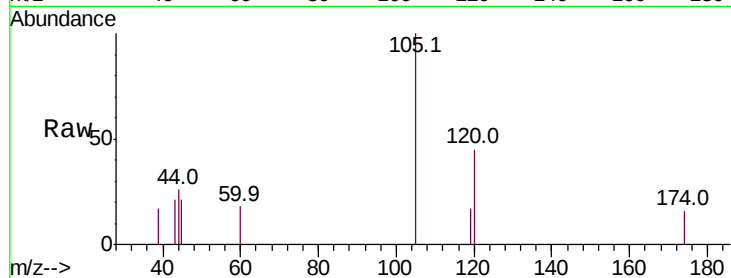
PB133472ZHE#03

Tot Ion:105 Resp: 1771

Ion Ratio Lower Upper

105 100

120 51.2 24.6 73.6



#81

trans-1,4-Dichloro-2-butene

Concen: 66.090 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN065022.D

Acq: 9 Dec 2020 15:50

Tgt Ion: 75 Resp: 71020

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

