

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120920\
 Data File : VN065030.D
 Acq On : 9 Dec 2020 19:02
 Operator : JC/MD
 Sample : PB133472ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#11

Quant Time: Dec 10 04:09:49 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	162108	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	324632	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	337083	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	108410	57.52	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	115.04%
35) Dibromofluoromethane	7.55	113	99651	51.30	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	102.60%
50) Toluene-d8	10.06	98	404390	50.95	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	101.90%
62) 4-Bromofluorobenzene	12.38	95	147062	51.77	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	103.54%

Target Compounds

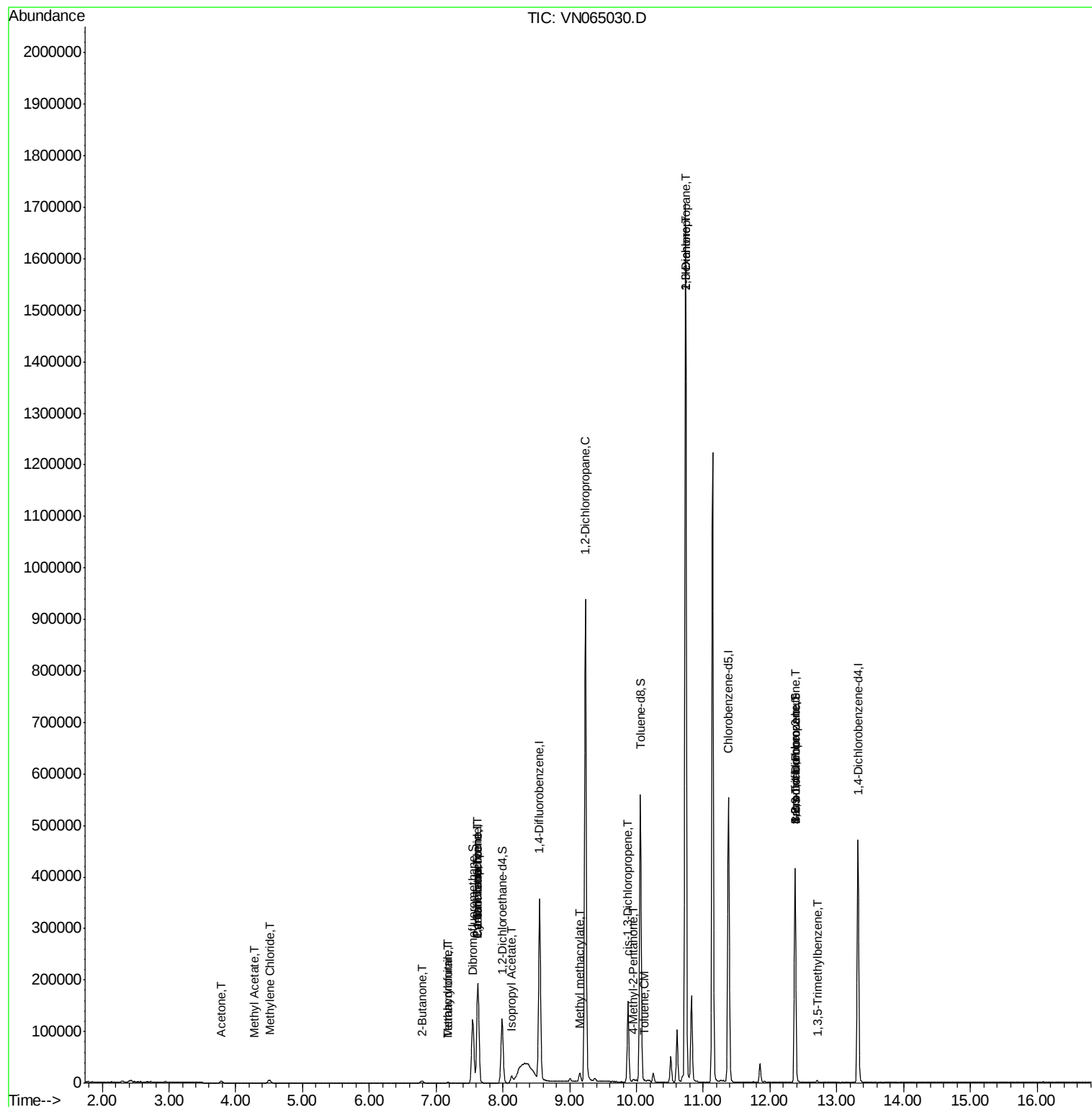
					Qvalue	
16) Acetone	3.78	43	5668	9.149	ug/l	97
18) Methyl Acetate	4.27	43	523	0.281	ug/l #	62
20) Methylene Chloride	4.51	84	4808	2.477	ug/l	90
25) 2-Butanone	6.79	43	1905	1.897	ug/l #	87
29) Tetrahydrofuran	7.16	42	1211	1.747	ug/l #	34
31) Cyclohexane	7.62	56	1331	0.507	ug/l #	3
36) 1,1-Dichloropropene	7.62	75	11825	3.930	ug/l #	49
38) Carbon Tetrachloride	7.62	117	15415	4.924	ug/l #	17
41) Methacrylonitrile	7.18	41	383	0.286	ug/l #	19
43) Isopropyl Acetate	8.13	43	18352	3.935	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1032	0.432	ug/l #	43
48) Methyl methacrylate	9.14	41	4133	1.854	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3518	1.256	ug/l	95
52) Toluene	10.12	92	1497	0.264	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	28847	7.528	ug/l #	64
57) 1,3-Dichloropropane	10.74	76	18426	4.784	ug/l #	42
59) 2-Hexanone	10.74	43	232870	115.560	ug/l #	51
71) Bromoform	12.38	173	718	0.338	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	69645	23.647	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2166	0.274	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.37	75	69645	64.811	ug/l #	15

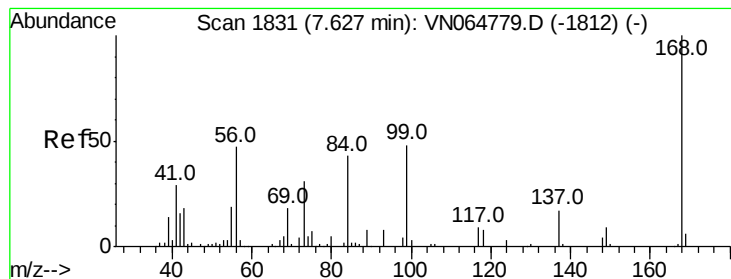
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN065030.D

Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

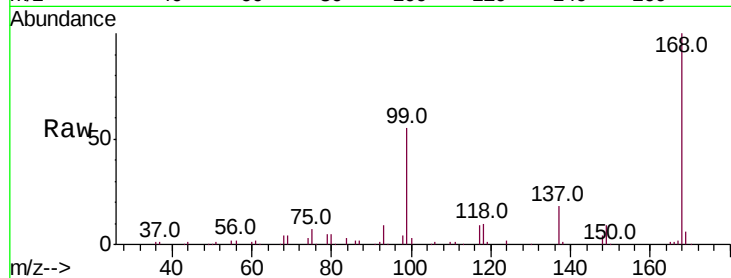
PB133472ZHE#11

Tot Ion:168 Resp: 162108

Ion Ratio Lower Upper

168 100

99 55.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

60000

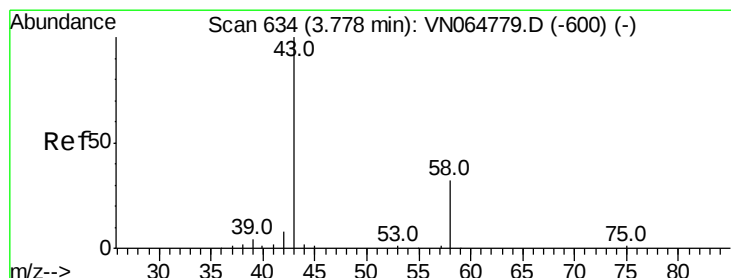
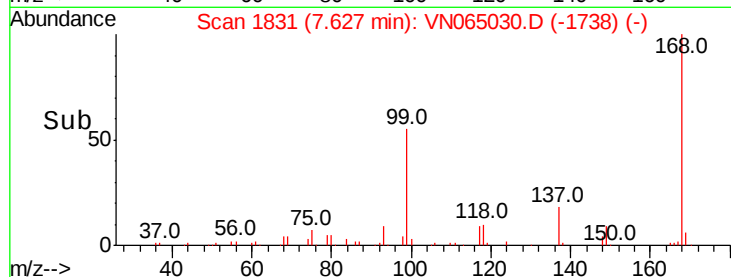
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 9.149 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN065030.D

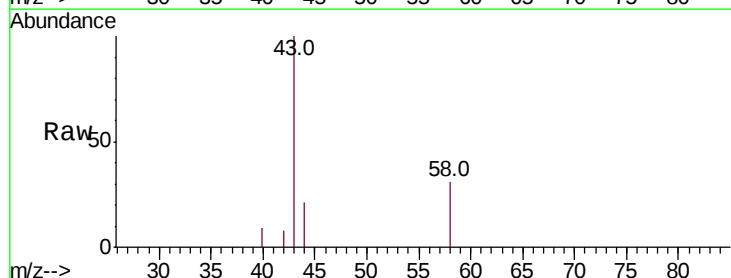
Acq: 9 Dec 2020 19:02

Tgt Ion: 43 Resp: 5668

Ion Ratio Lower Upper

43 100

58 30.6 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2500

2000

1500

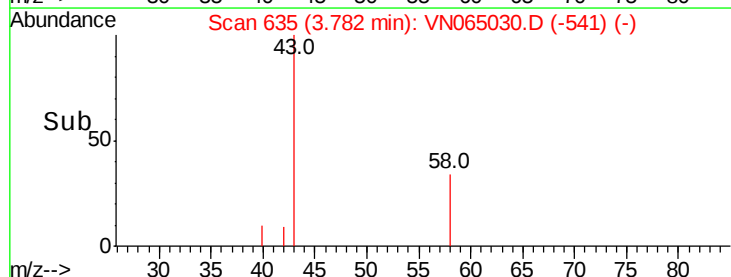
1000

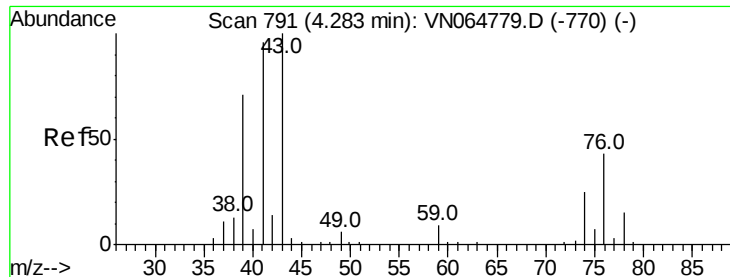
500

0

3.70 3.75 3.80 3.85

Time-->

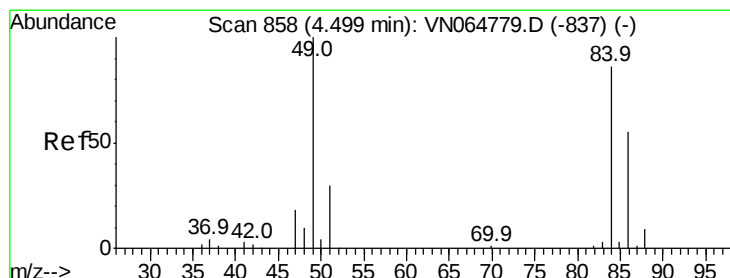
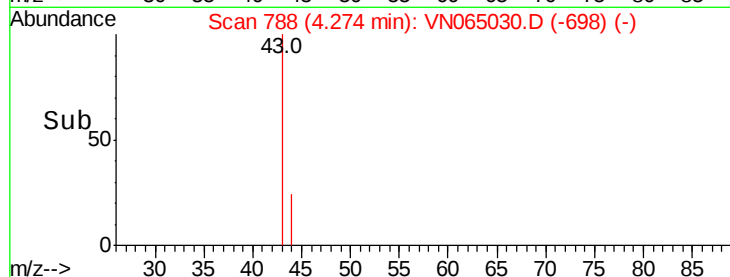
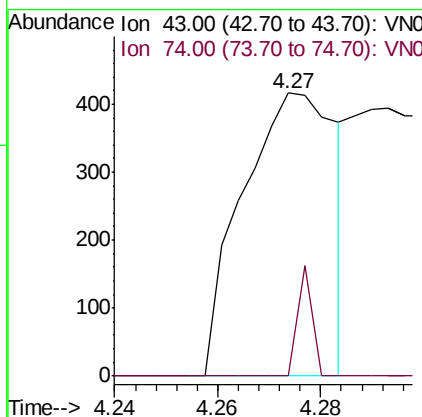
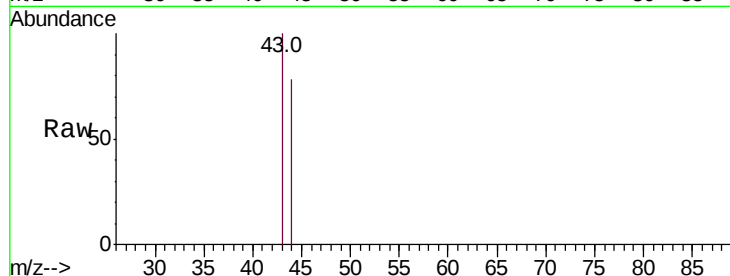




#18
Methyl Acetate
Concen: 0.281 ug/l
RT: 4.27 min Scan# 788
Delta R.T. -0.01 min
Lab File: VN065030.D
Acq: 9 Dec 2020 19:02

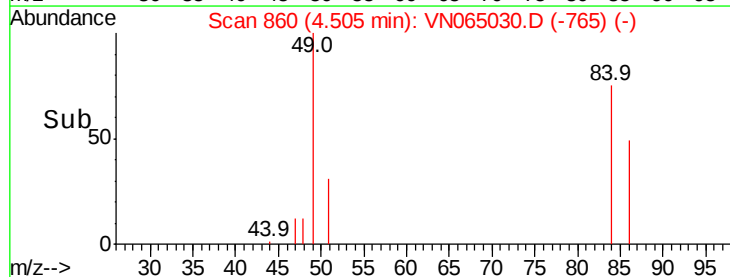
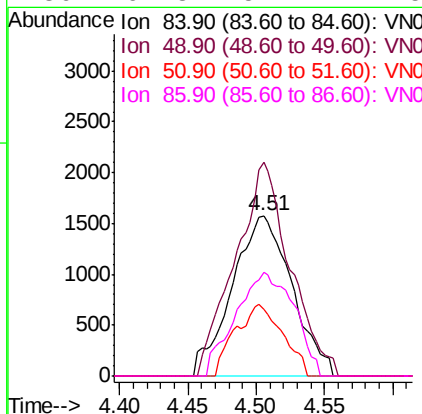
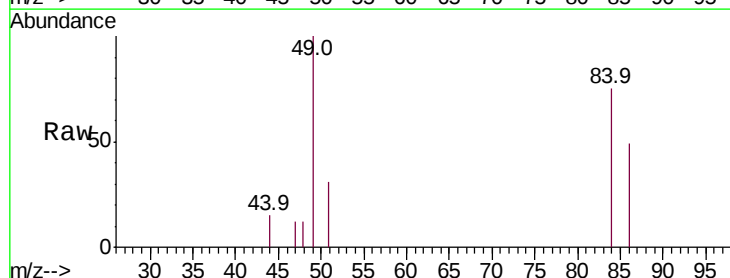
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#11

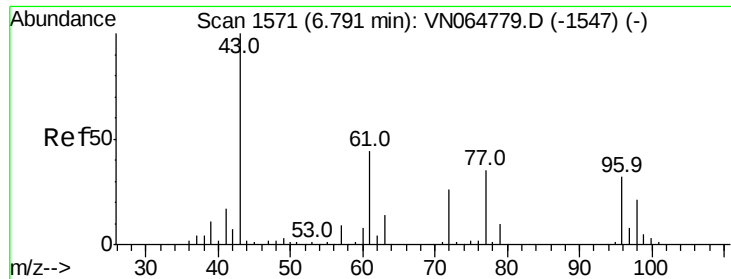
Tot Ion: 43 Resp: 523
Ion Ratio Lower Upper
43 100
74 5.9 20.2 30.2#



#20
Methylene Chloride
Concen: 2.477 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN065030.D
Acq: 9 Dec 2020 19:02

Tgt Ion: 84 Resp: 4808
Ion Ratio Lower Upper
84 100
49 133.4 93.4 140.0
51 41.8 28.2 42.4
86 64.8 51.7 77.5





#25

2-Butanone

Concen: 1.897 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

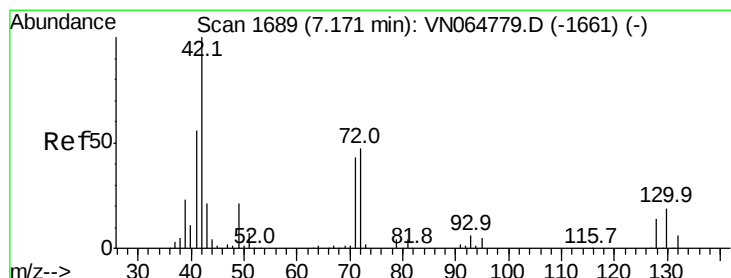
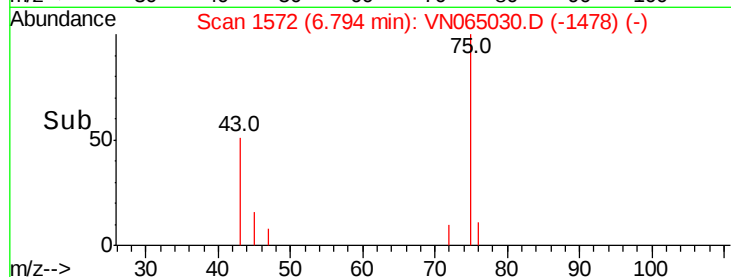
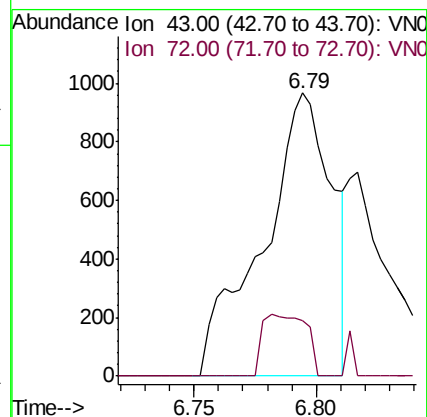
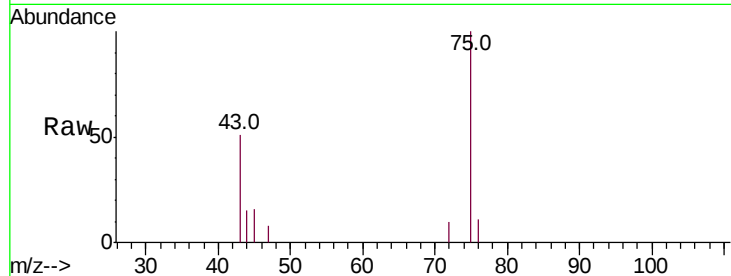
PB133472ZHE#11

Tot Ion: 43 Resp: 1905

Ion Ratio Lower Upper

43 100

72 19.5 21.0 31.6#



#29

Tetrahydrofuran

Concen: 1.747 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

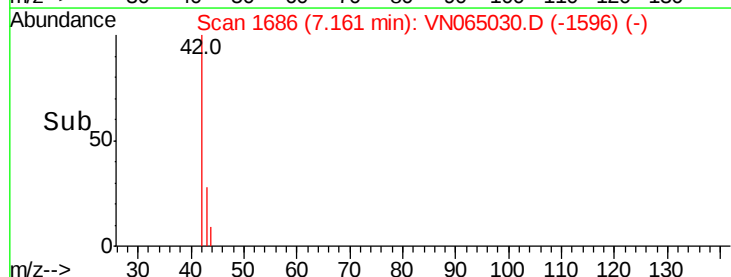
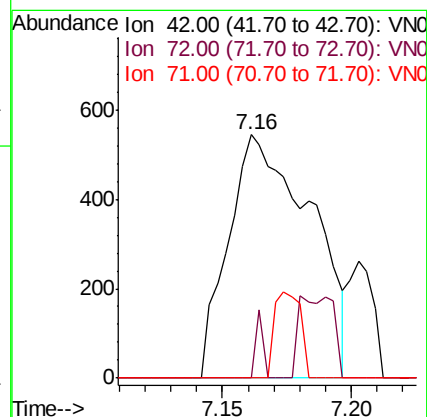
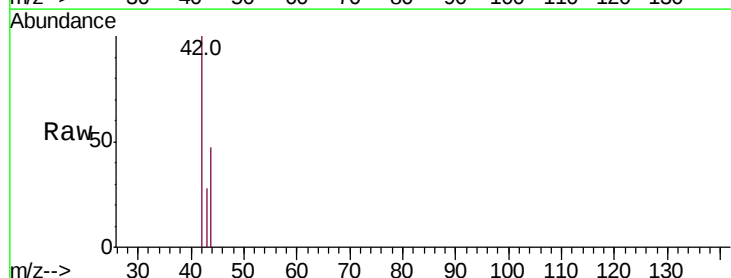
Tgt Ion: 42 Resp: 1211

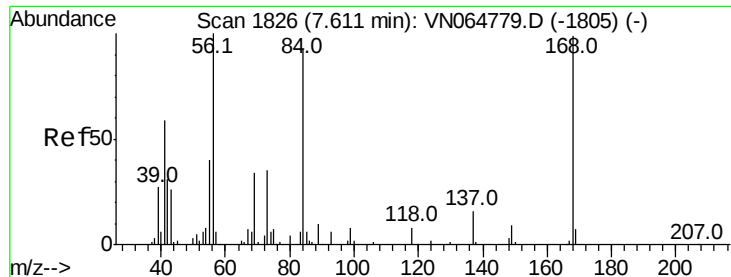
Ion Ratio Lower Upper

42 100

72 2.4 36.6 54.8#

71 0.0 33.6 50.4#





#31

Cyclohexane

Concen: 0.507 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#11

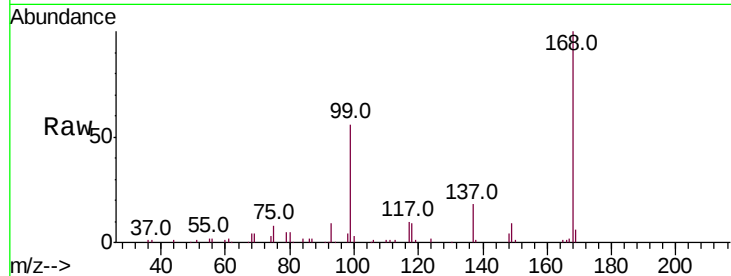
Tot Ion: 56 Resp: 1331

Ion Ratio Lower Upper

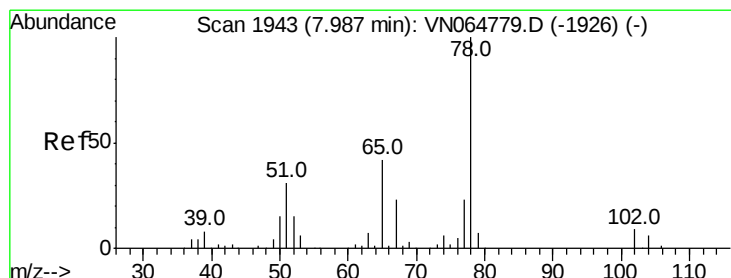
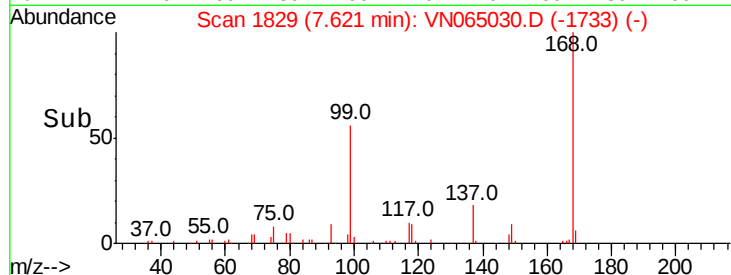
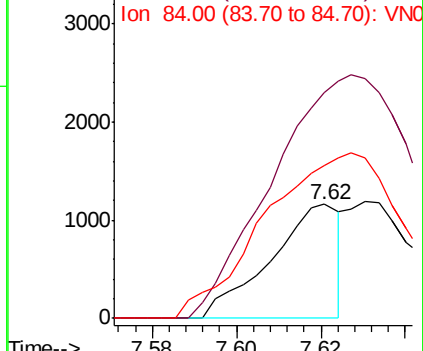
56 100

69 197.8 27.5 41.3#

84 118.1 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: 57.524 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065030.D

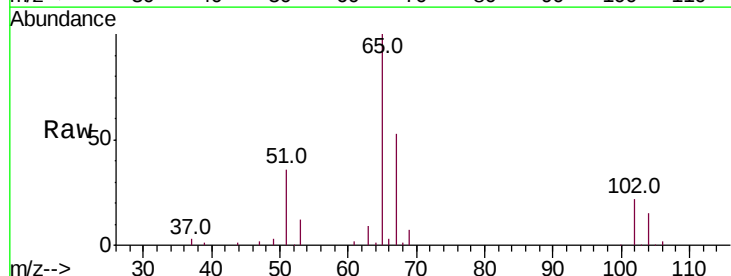
Acq: 9 Dec 2020 19:02

Tgt Ion: 65 Resp: 108410

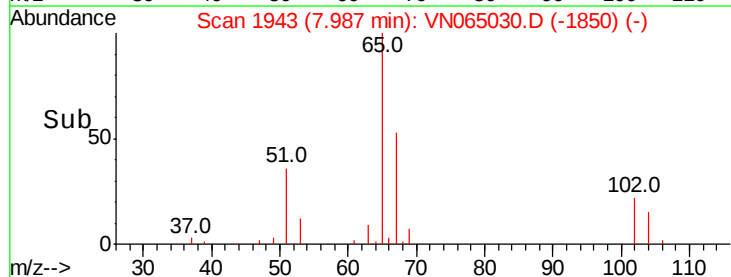
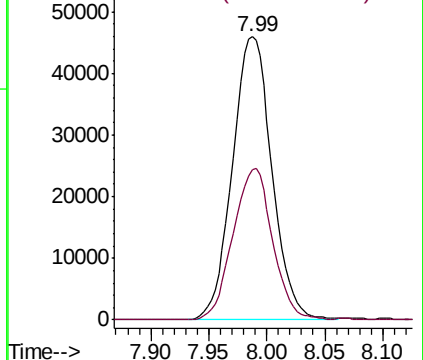
Ion Ratio Lower Upper

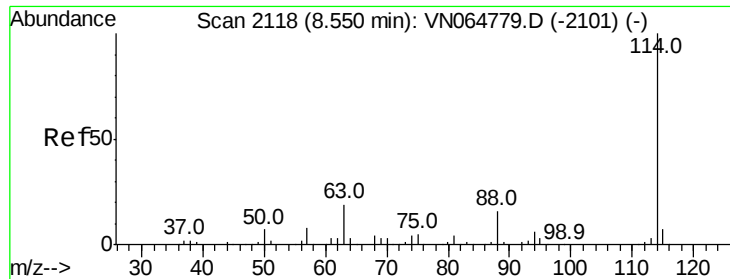
65 100

67 53.6 0.0 108.2



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

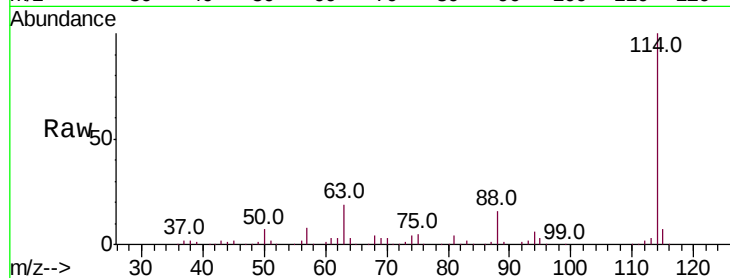




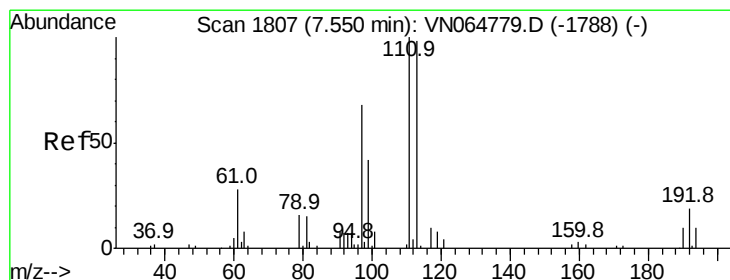
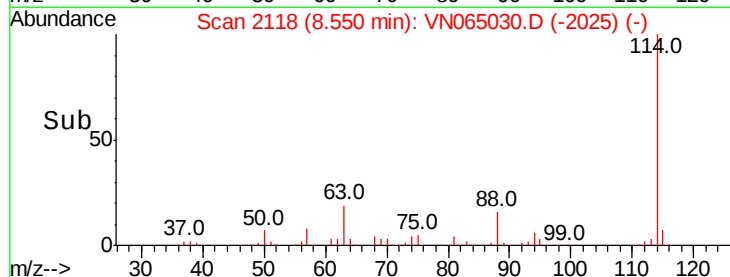
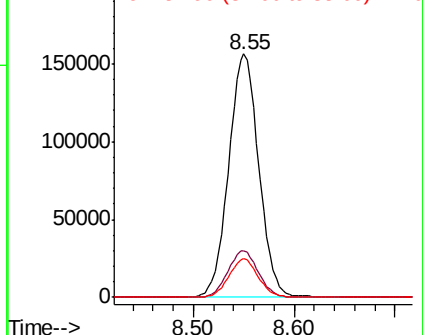
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065030.D
 Acq: 9 Dec 2020 19:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#11

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	38.6
88	15.7	0.0	32.6

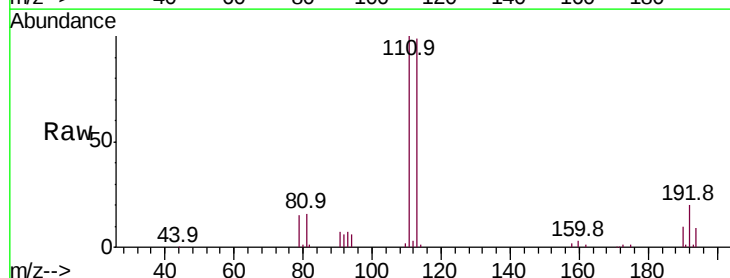


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

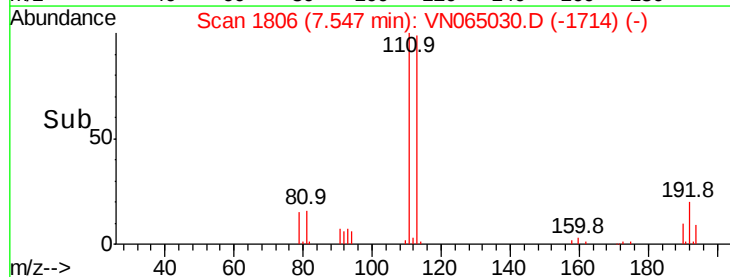
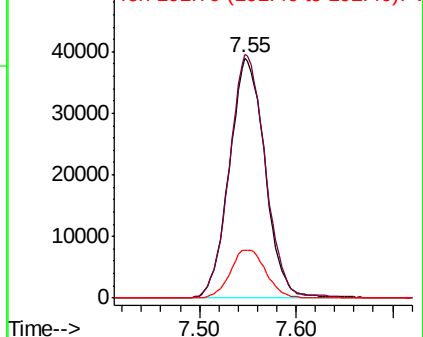


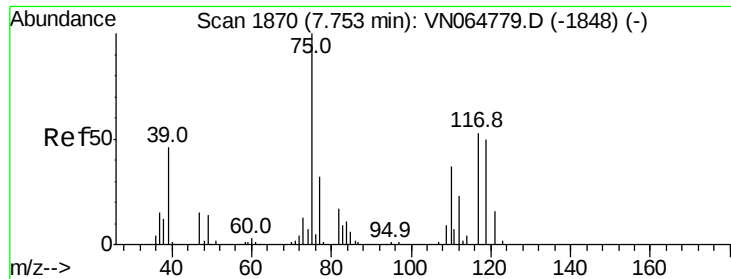
#35
 Dibromofluoromethane
 Concen: 51.301 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN065030.D
 Acq: 9 Dec 2020 19:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.6	122.4
192	20.0	16.2	24.2



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





#36

1,1-Dichloropropene

Concen: 3.930 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#11

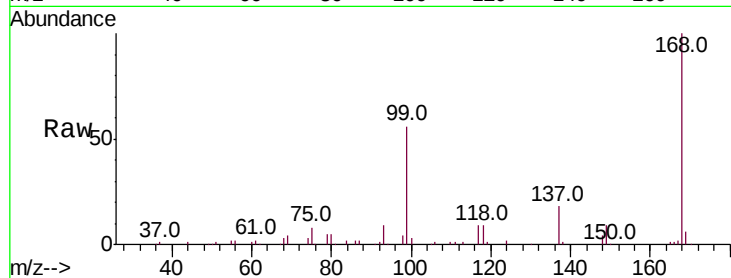
Tot Ion: 75 Resp: 11825

Ion Ratio Lower Upper

75 100

110 8.2 17.8 53.3#

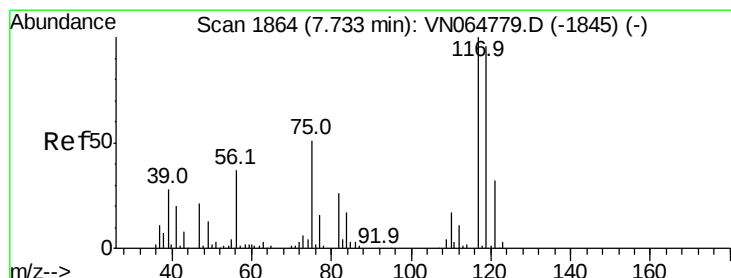
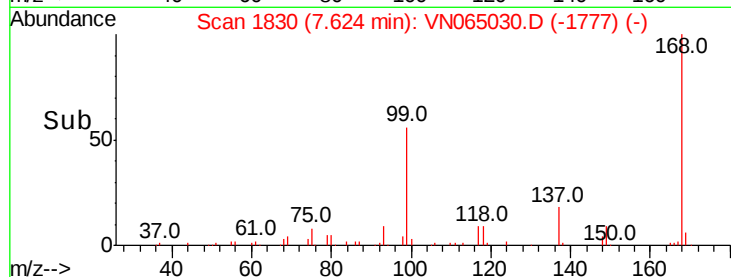
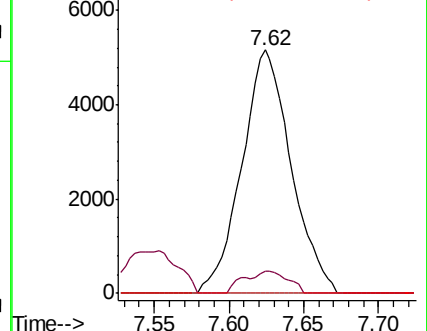
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN064779.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN064779.D (-1848) (-)



#38

Carbon Tetrachloride

Concen: 4.924 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

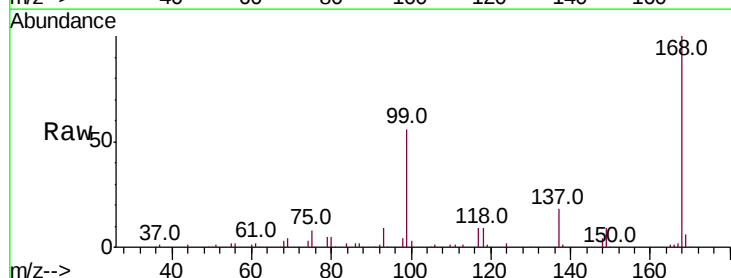
Tgt Ion: 117 Resp: 15415

Ion Ratio Lower Upper

117 100

119 6.7 76.7 115.1#

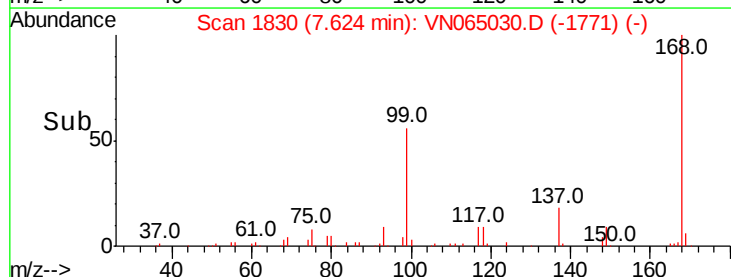
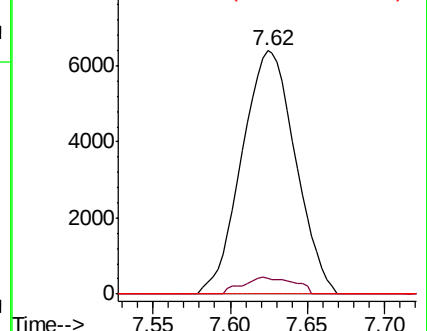
121 0.0 25.4 38.2#

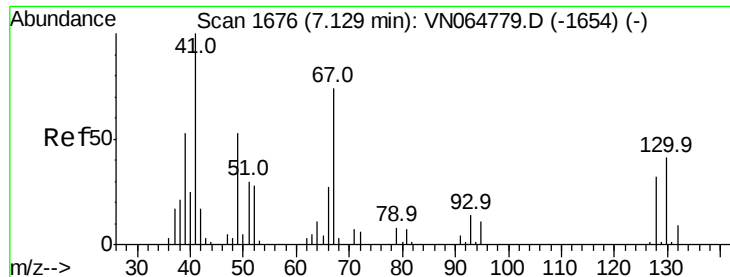


Abundance Ion 116.80 (116.50 to 117.50): VN064779.D (-1845) (-)

Ion 118.80 (118.50 to 119.50): VN064779.D (-1845) (-)

Ion 120.80 (120.50 to 121.50): VN064779.D (-1845) (-)

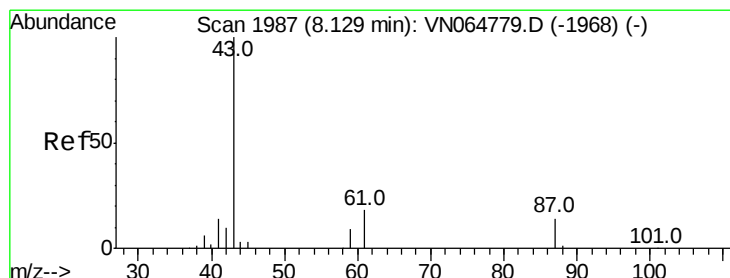
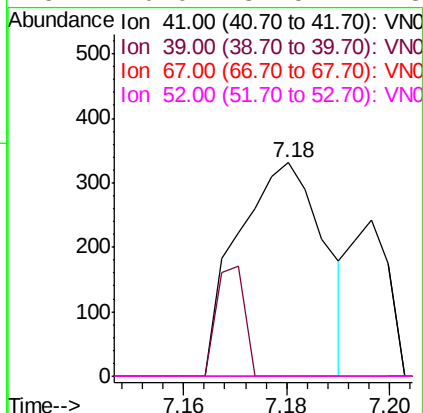
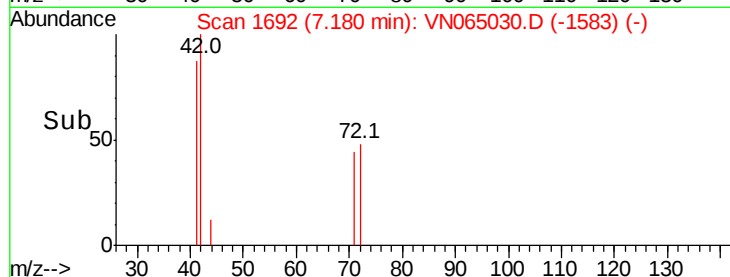
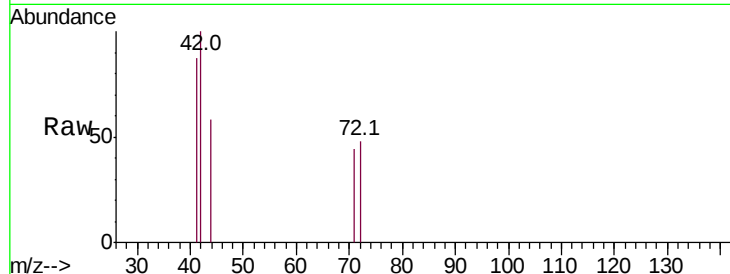




#41
Methacrylonitrile
Concen: 0.286 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.05 min
Lab File: VN065030.D
Acq: 9 Dec 2020 19:02

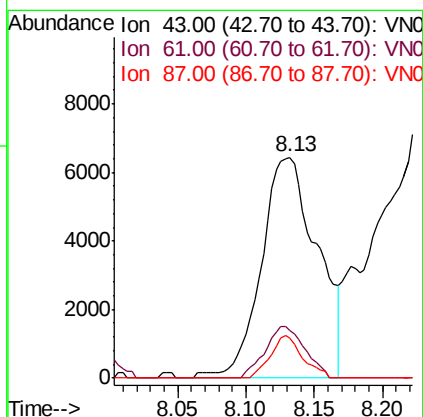
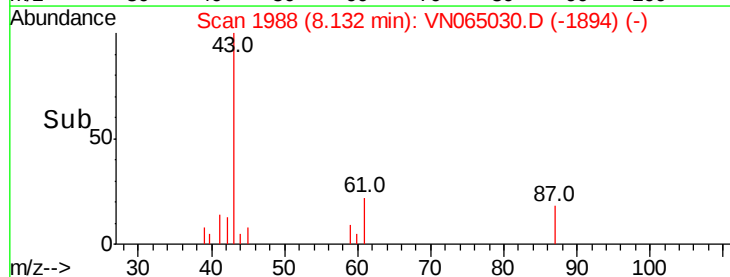
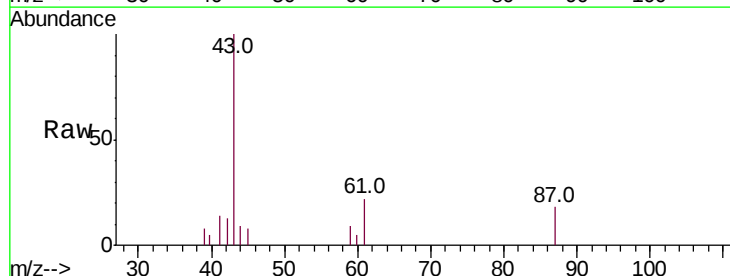
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#11

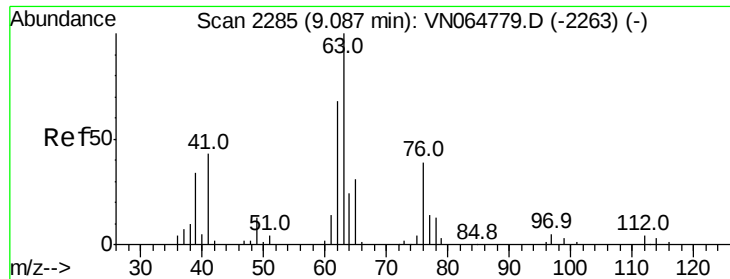
Tot Ion: 41 Resp: 383
Ion Ratio Lower Upper
41 100
39 16.7 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



#43
Isopropyl Acetate
Concen: 3.935 ug/l
RT: 8.13 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN065030.D
Acq: 9 Dec 2020 19:02

Tgt Ion: 43 Resp: 18352
Ion Ratio Lower Upper
43 100
61 16.6 17.2 25.8#
87 11.0 11.4 17.0#





#45

1,2-Dichloropropane

Concen: 0.432 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

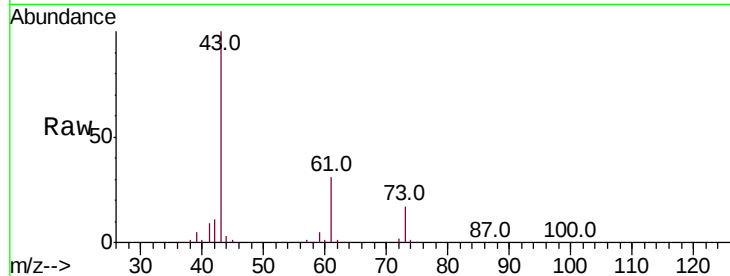
PB133472ZHE#11

Tot Ion: 63 Resp: 1032

Ion Ratio Lower Upper

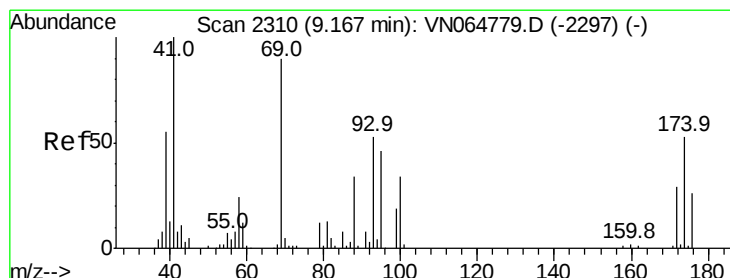
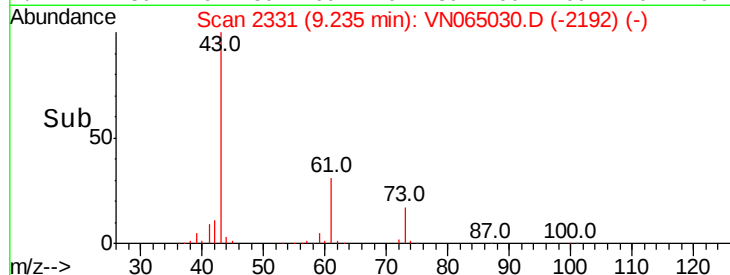
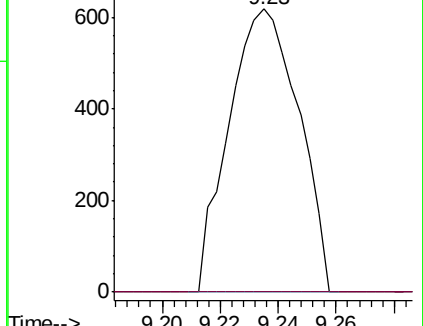
63 100

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

Methyl methacrylate

Concen: 1.854 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

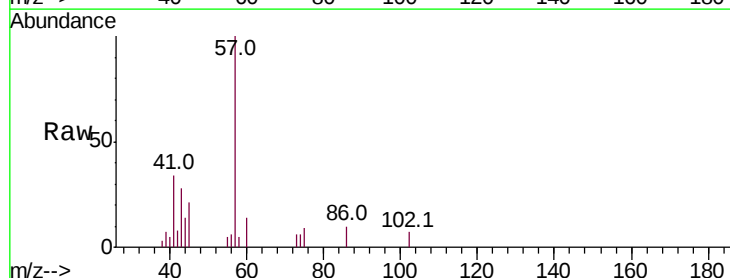
Tgt Ion: 41 Resp: 4133

Ion Ratio Lower Upper

41 100

69 0.0 71.8 107.8#

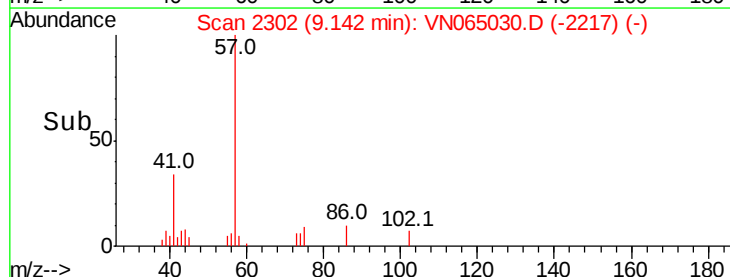
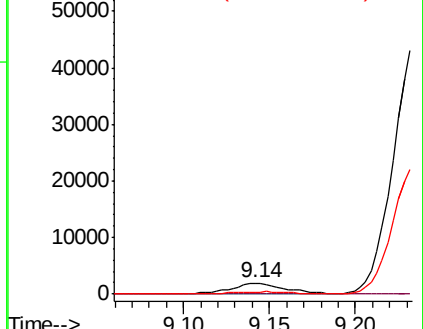
39 0.0 44.1 66.1#

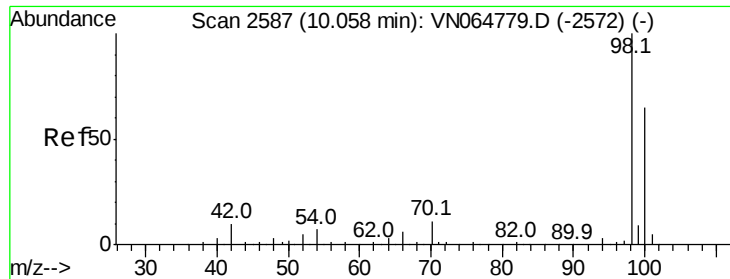


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 50.951 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

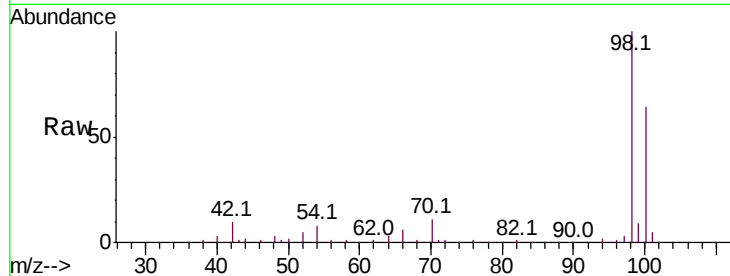
PB133472ZHE#11

Tot Ion: 98 Resp: 404390

Ion Ratio Lower Upper

98 100

100 64.2 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

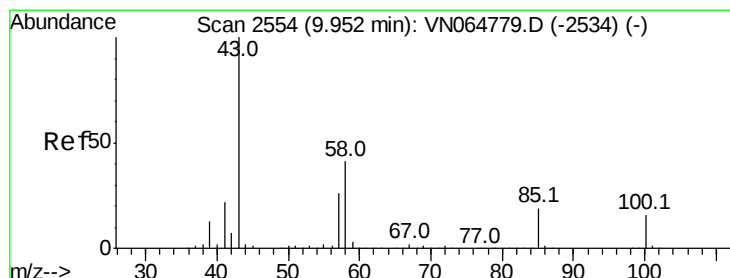
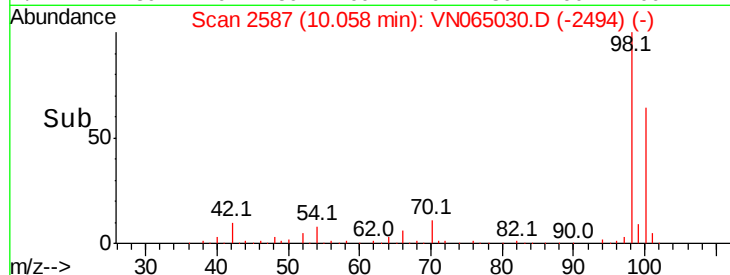
50000

0

10.06

10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.256 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN065030.D

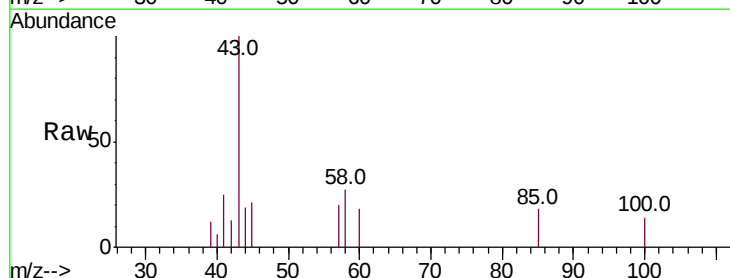
Acq: 9 Dec 2020 19:02

Tgt Ion: 43 Resp: 3518

Ion Ratio Lower Upper

43 100

58 37.3 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

5000

4000

3000

2000

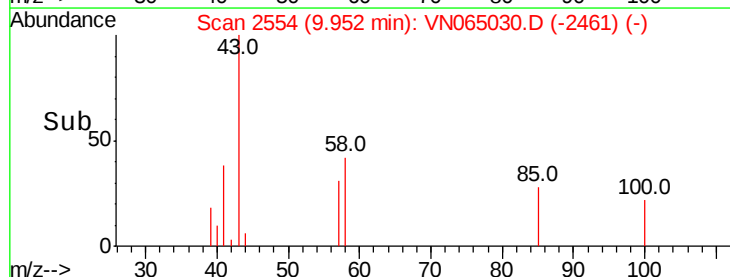
1000

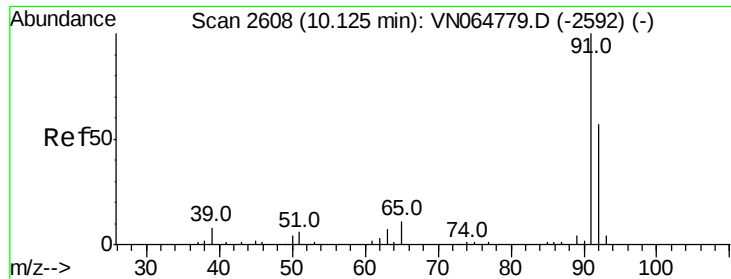
0

9.95

9.95

Time-->





#52

Toluene

Concen: 0.264 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

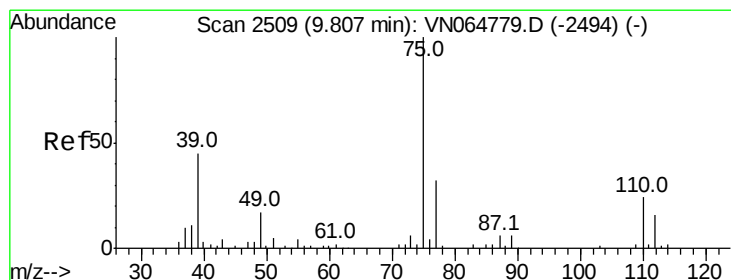
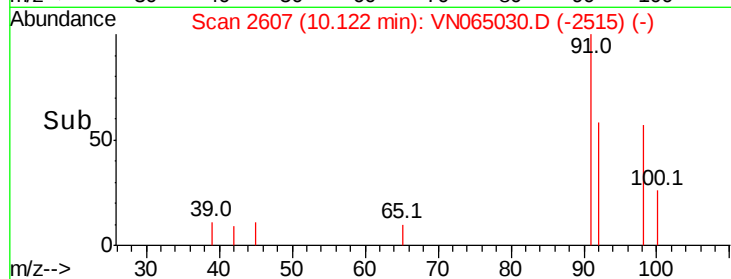
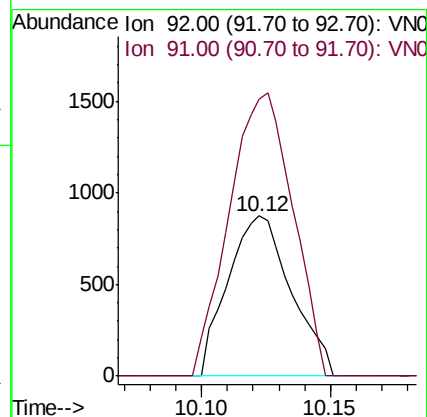
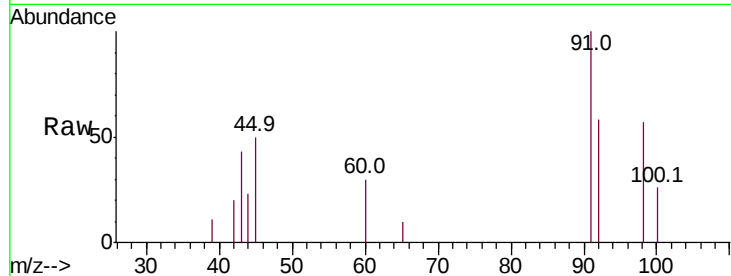
PB133472ZHE#11

Tot Ion: 92 Resp: 1497

Ion Ratio Lower Upper

92 100

91 176.6 139.1 208.7



#54

cis-1,3-Dichloropropene

Concen: 7.528 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

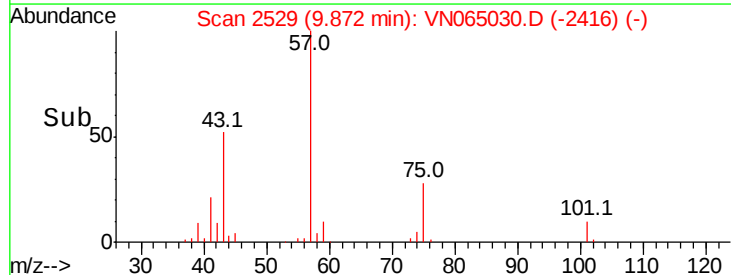
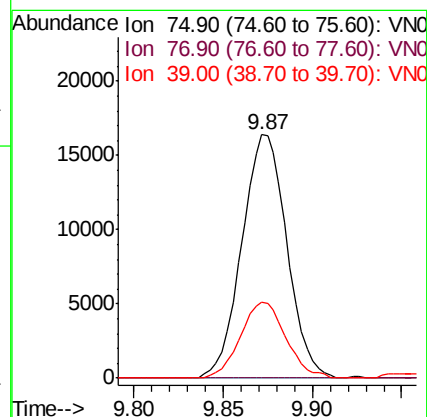
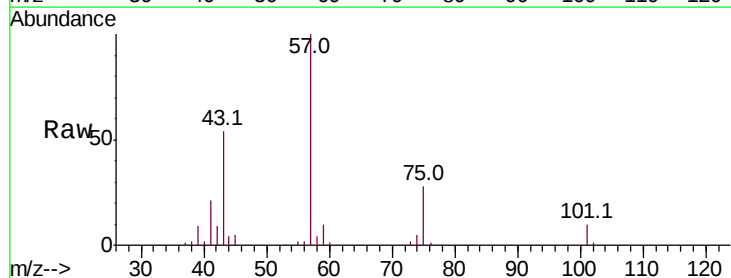
Tgt Ion: 75 Resp: 28847

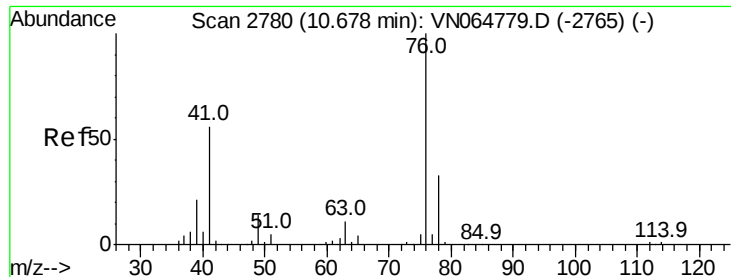
Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 31.1 35.6 53.4#





#57

1,3-Dichloropropane

Concen: 4.784 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

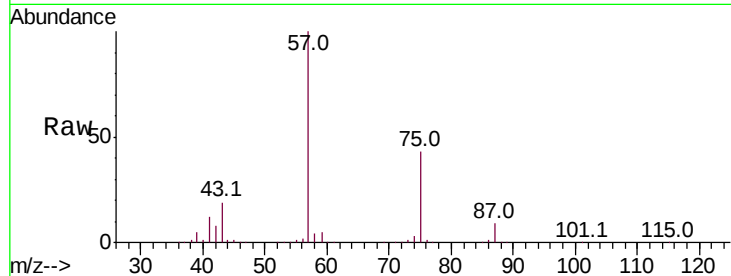
PB133472ZHE#11

Tot Ion: 76 Resp: 18426

Ion Ratio Lower Upper

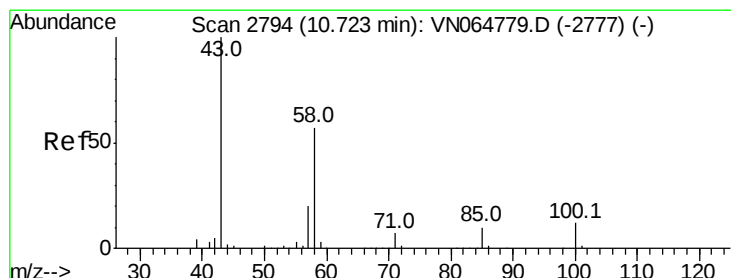
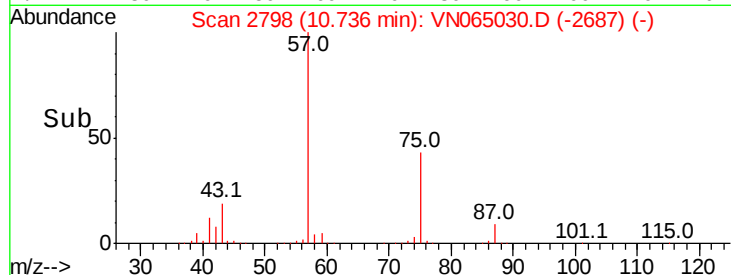
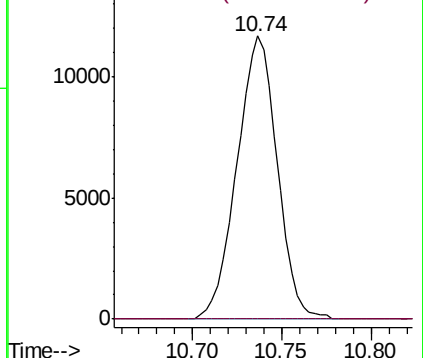
76 100

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: 115.560 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN065030.D

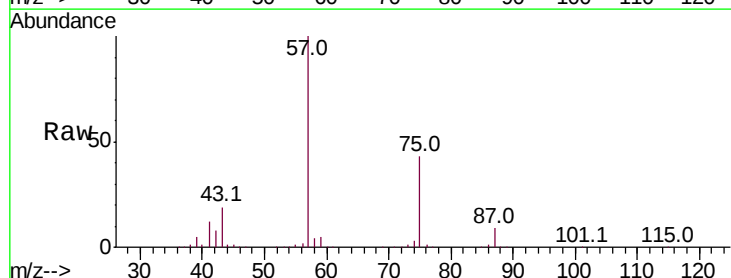
Acq: 9 Dec 2020 19:02

Tgt Ion: 43 Resp: 232870

Ion Ratio Lower Upper

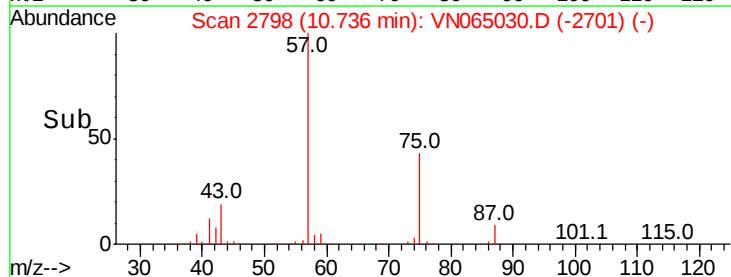
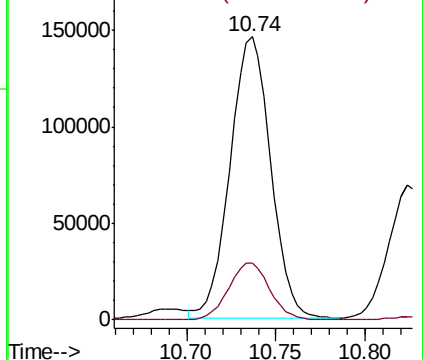
43 100

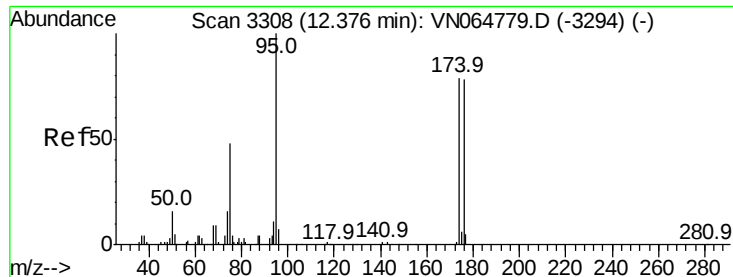
58 20.4 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

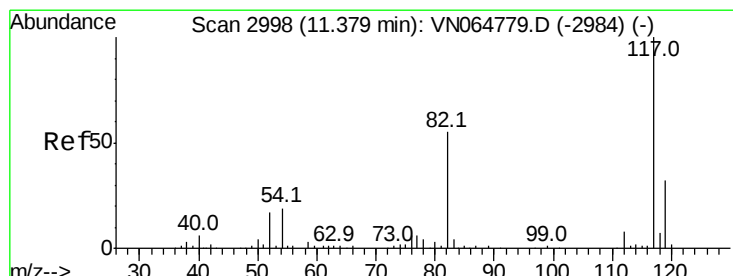
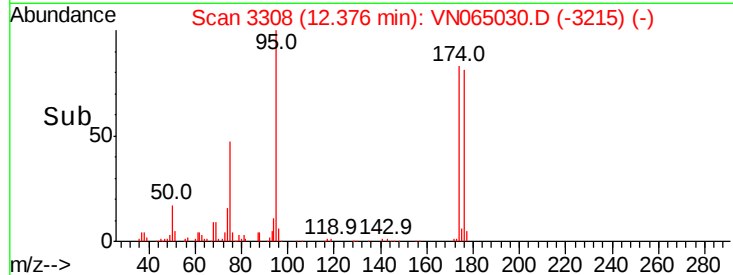
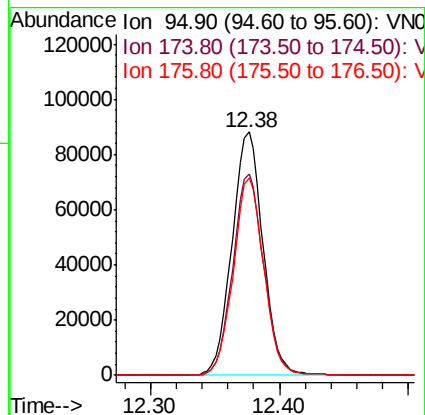
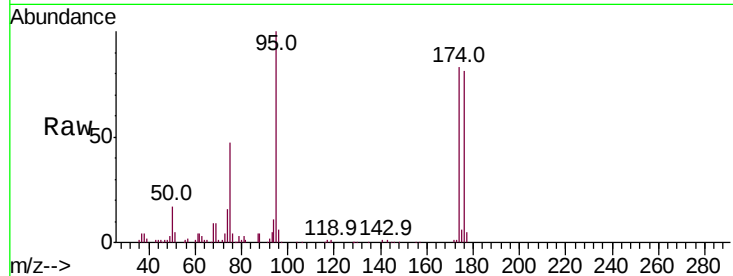




#62
4-Bromofluorobenzene
Concen: 51.774 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065030.D
Acq: 9 Dec 2020 19:02

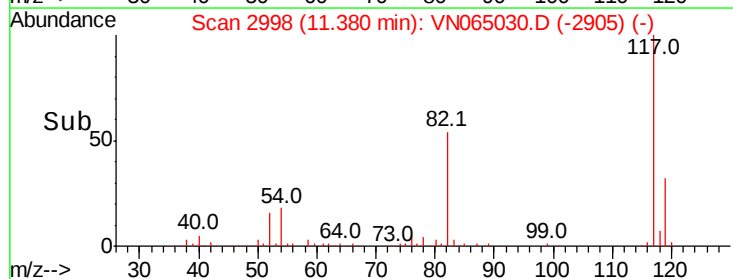
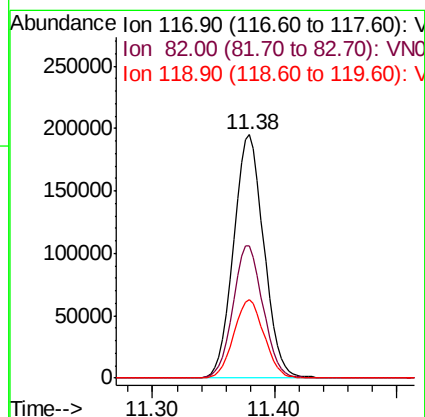
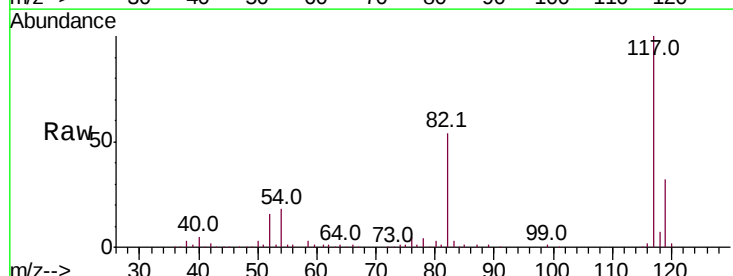
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#11

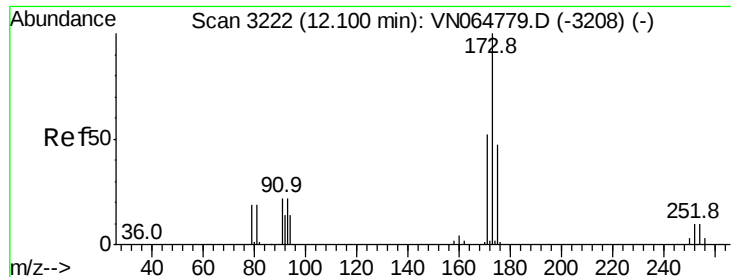
Tot Ion: 95 Resp: 147062
Ion Ratio Lower Upper
95 100
174 83.0 0.0 160.4
176 80.1 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065030.D
Acq: 9 Dec 2020 19:02

Tgt Ion: 117 Resp: 337083
Ion Ratio Lower Upper
117 100
82 54.1 44.2 66.2
119 32.1 25.8 38.6





#71

Bromoform

Concen: 0.338 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#11

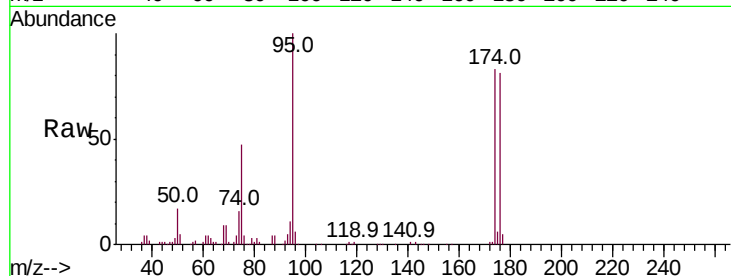
Tot Ion:173 Resp: 718

Ion Ratio Lower Upper

173 100

175 1086.6 24.3 72.8#

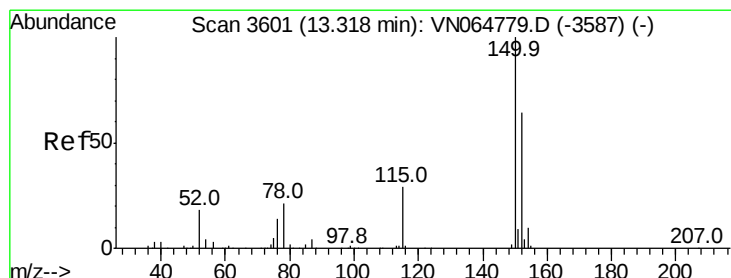
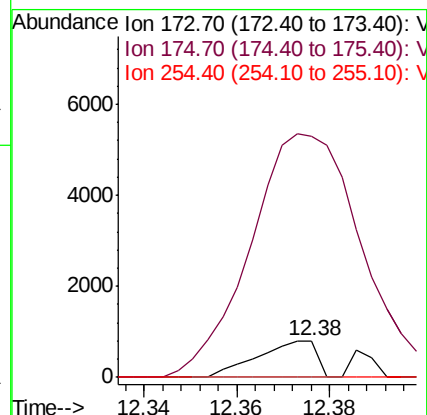
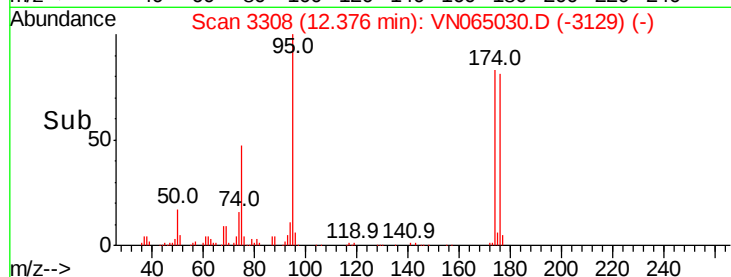
254 0.0 0.0 0.0



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# 3601

Delta R.T. 0.00 min

Lab File: VN065030.D

Acq: 9 Dec 2020 19:02

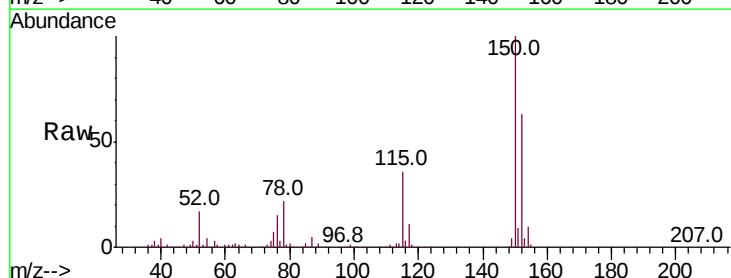
Tgt Ion:152 Resp: 136758

Ion Ratio Lower Upper

152 100

115 58.0 29.7 89.1

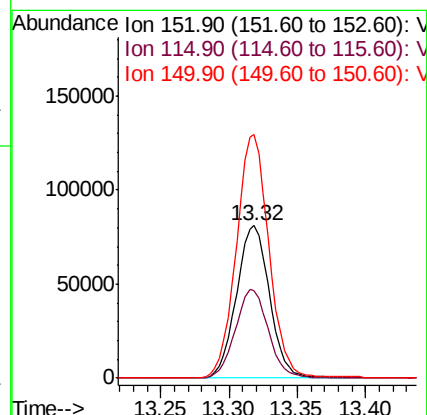
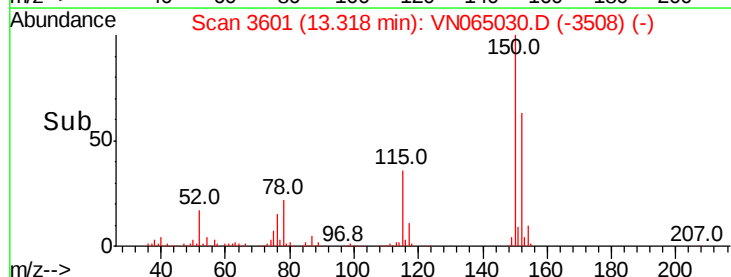
150 156.8 0.0 350.6

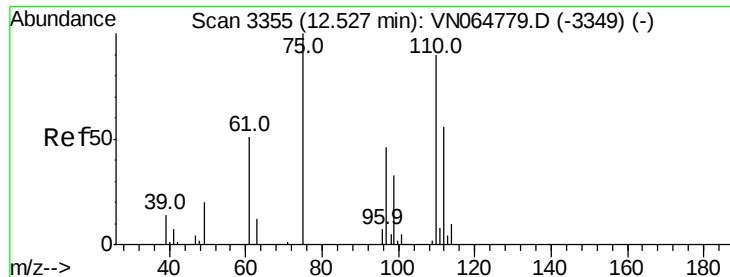


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

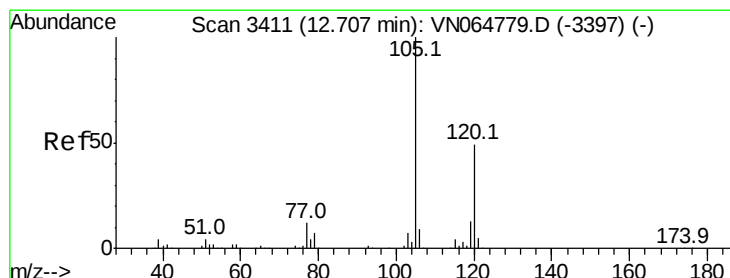
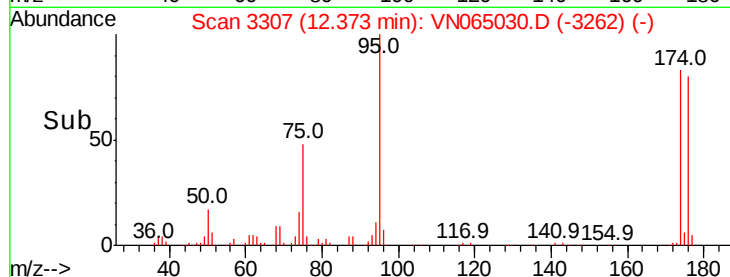
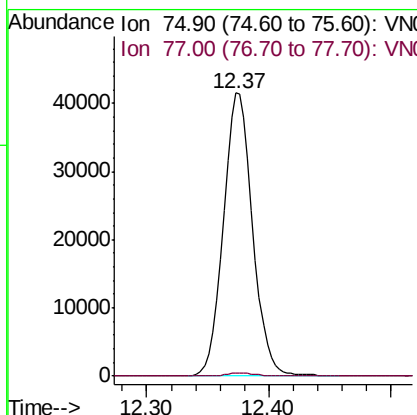
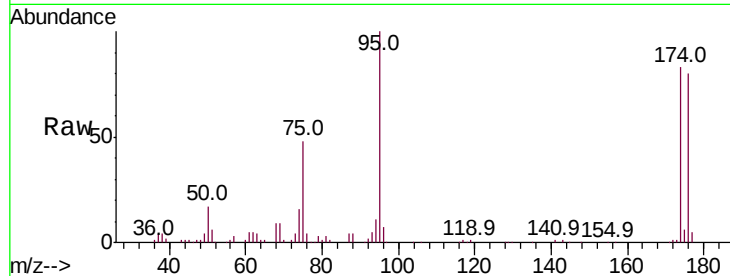




#76
 1,2,3-Trichloropropane
 Concen: 23.647 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN065030.D
 Acq: 9 Dec 2020 19:02

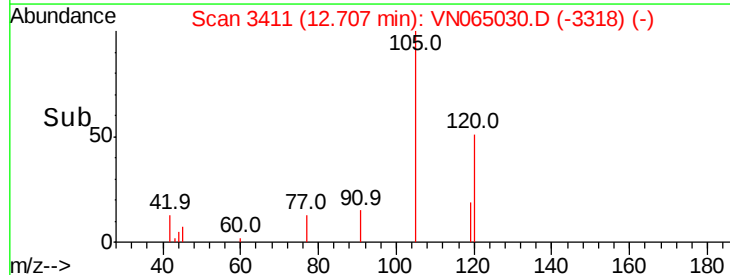
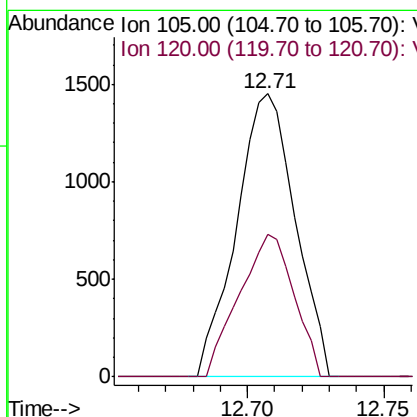
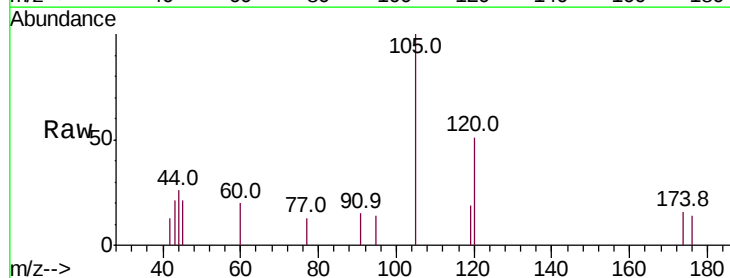
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#11

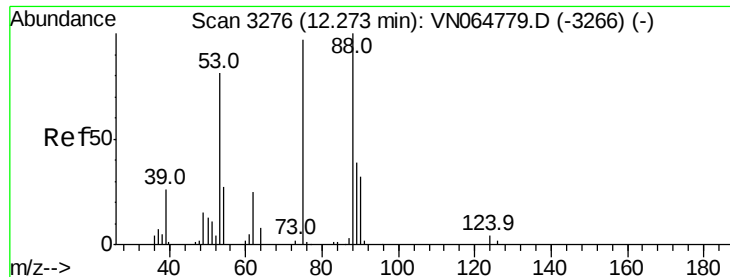
Tot Ion: 75 Resp: 69645
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.274 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN065030.D
 Acq: 9 Dec 2020 19:02

Tgt Ion:105 Resp: 2166
 Ion Ratio Lower Upper
 105 100
 120 46.8 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 64.811 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN065030.D

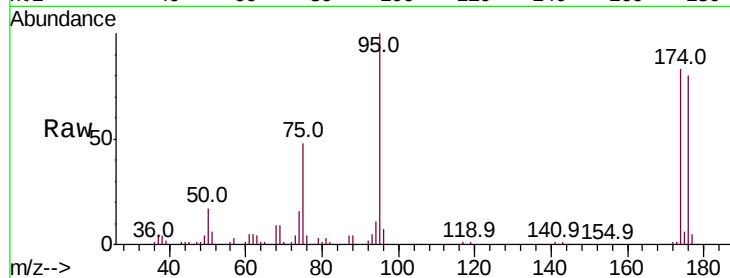
Acq: 9 Dec 2020 19:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#11



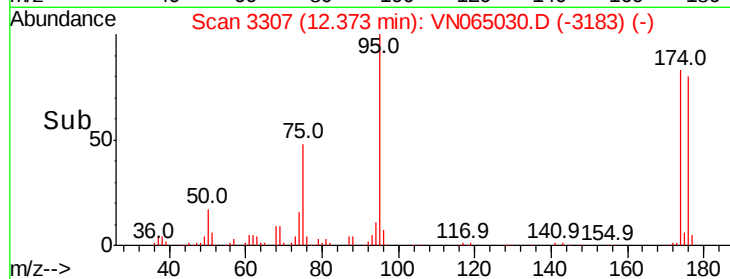
Tot Ion: 75 Resp: 69645

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

