

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121020\
 Data File : VN065057.D
 Acq On : 10 Dec 2020 21:20
 Operator : JC/MD
 Sample : PB133501ZHE#05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#05

Quant Time: Dec 11 03:48:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 10 16:04:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	159207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	303603	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	327164	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	132387	50.00	ug/l	0.00

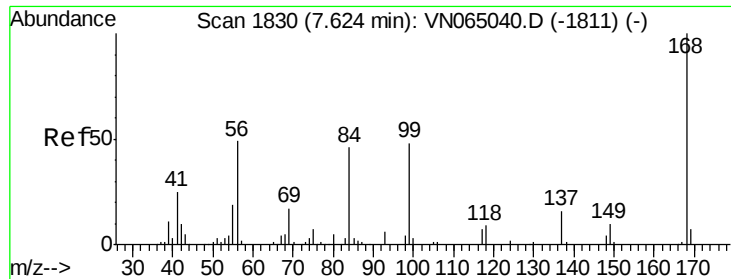
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	103600	54.66	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	109.32%		
35) Dibromofluoromethane	7.55	113	96469	48.03	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.06%		
50) Toluene-d8	10.06	98	389273	50.52	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.04%		
62) 4-Bromofluorobenzene	12.37	95	144566	54.74	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	109.48%		

Target Compounds

					Qvalue	
16) Acetone	3.78	43	3257	4.844	ug/l	89
18) Methyl Acetate	4.29	43	790	0.466	ug/l #	50
20) Methylene Chloride	4.51	84	4224	2.466	ug/l	97
25) 2-Butanone	6.80	43	2748	2.964	ug/l	99
29) Tetrahydrofuran	7.16	42	389	0.668	ug/l #	83
31) Cyclohexane	7.63	56	3048	2.748	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11025	4.258	ug/l #	46
37) Ethyl Acetate	6.80	43	2748	1.167	ug/l #	67
38) Carbon Tetrachloride	7.62	117	14703	5.344	ug/l #	18
41) Methacrylonitrile	7.18	41	477	0.390	ug/l #	31
43) Isopropyl Acetate	8.13	43	16114	4.117	ug/l	95
45) 1,2-Dichloropropane	9.23	63	1002	0.462	ug/l #	45
48) Methyl methacrylate	9.14	41	4151	2.234	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	4366	1.866	ug/l #	81
54) cis-1,3-Dichloropropene	9.87	75	27447	7.998	ug/l #	70
57) 1,3-Dichloropropane	10.74	76	16553	4.835	ug/l #	42
59) 2-Hexanone	10.74	43	216690	128.546	ug/l #	51
71) Bromoform	12.38	173	875	0.447	ug/l #	1
74) N-amyl acetate	12.03	43	930	0.293	ug/l #	41
76) 1,2,3-Trichloropropane	12.38	75	68972	26.746	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	68972	76.127	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065057.D

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MSVOA_N

ClientSampleId :

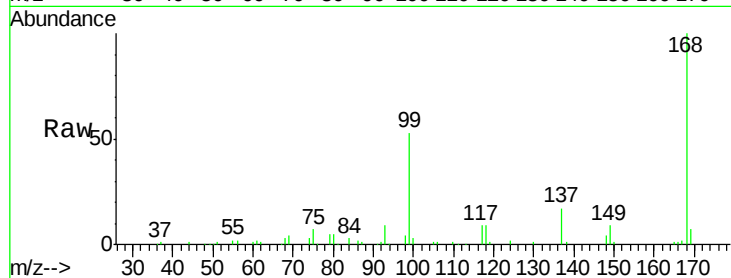
PB133501ZHE#05

Tgt Ion:168 Resp: 159207

Ion Ratio Lower Upper

168 100

99 53.0 44.0 66.0

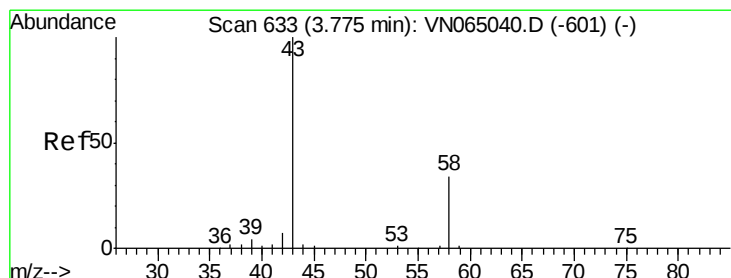
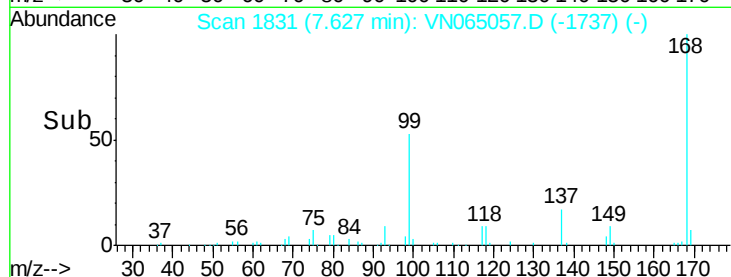


Abundance Ion 167.90 (167.60 to 168.60): VN065040.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN065040.D (-1811) (-)

7.63

Time-->



#16

Acetone

Concen: 4.844 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN065057.D

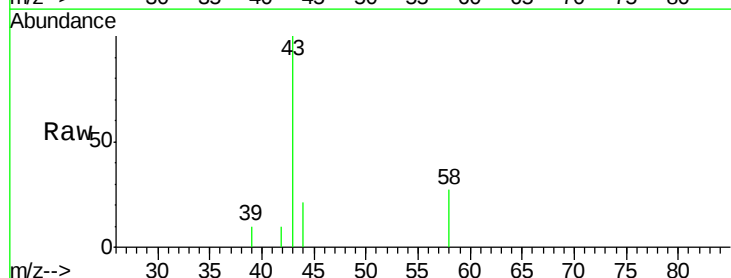
Acq: 10 Dec 2020 21:20

Tgt Ion: 43 Resp: 3257

Ion Ratio Lower Upper

43 100

58 27.3 26.8 40.2

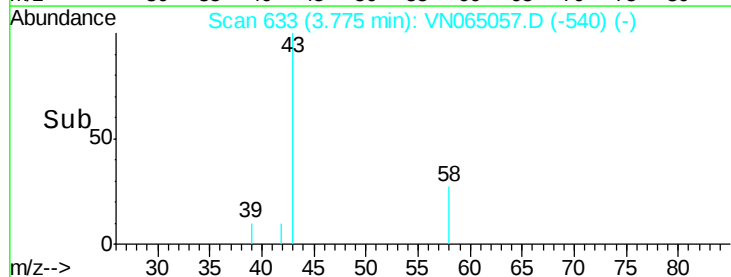


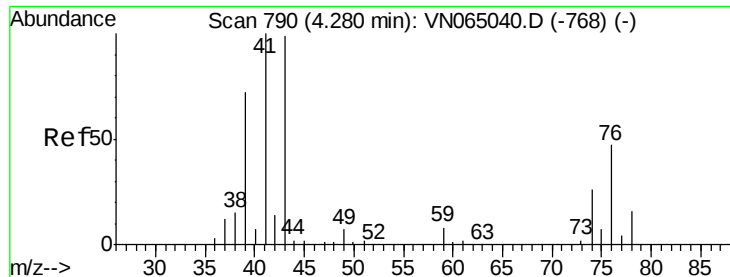
Abundance Ion 43.00 (42.70 to 43.70): VN065040.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN065040.D (-601) (-)

3.78

Time-->





#18

Methyl Acetate

Concen: 0.466 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

Instrument :

MSVOA_N

ClientSampleId :

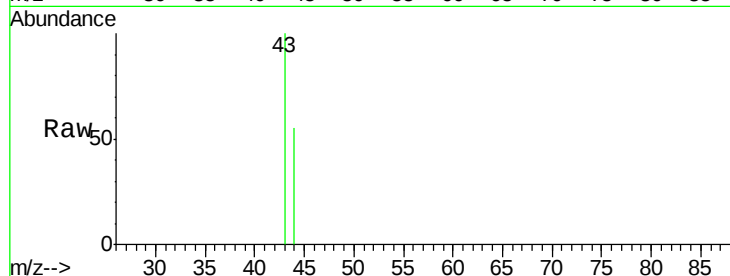
PB133501ZHE#05

Tgt Ion: 43 Resp: 790

Ion Ratio Lower Upper

43 100

74 0.0 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VN065040.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN065040.D (-768) (-)

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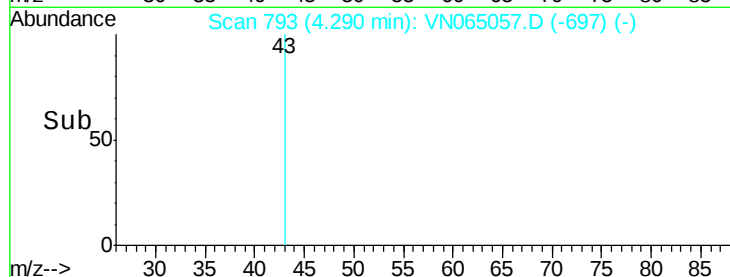
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#20

Methylene Chloride

Concen: 2.466 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

Tgt Ion: 84 Resp: 4224

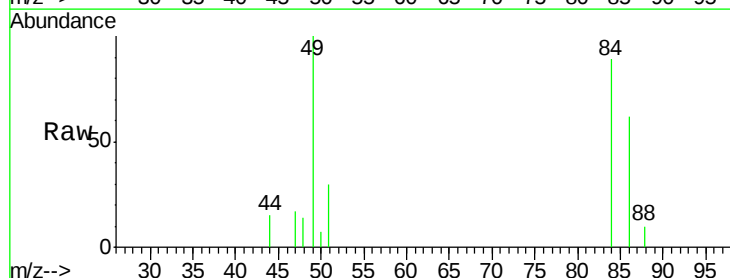
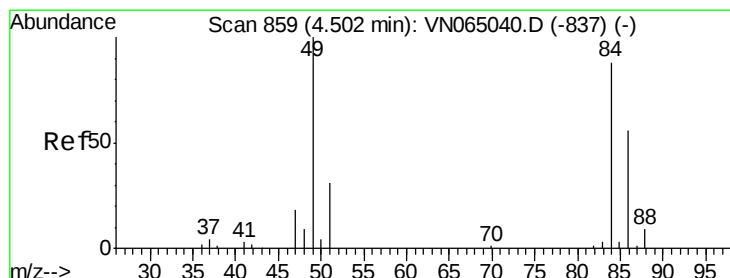
Ion Ratio Lower Upper

84 100

49 112.2 90.8 136.2

51 34.0 28.1 42.1

86 69.1 51.3 76.9



Abundance Ion 83.90 (83.60 to 84.60): VN065040.D (-837) (-)

Ion 48.90 (48.60 to 49.60): VN065040.D (-837) (-)

Ion 50.90 (50.60 to 51.60): VN065040.D (-837) (-)

Ion 85.90 (85.60 to 86.60): VN065040.D (-837) (-)

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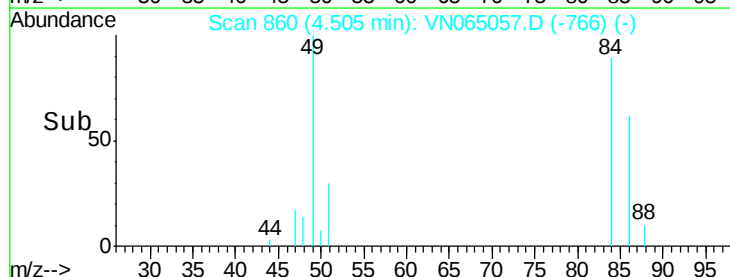
4.51

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Abundance Ion 83.90 (83.60 to 84.60): VN065057.D (-766) (-)

Ion 48.90 (48.60 to 49.60): VN065057.D (-766) (-)

Ion 50.90 (50.60 to 51.60): VN065057.D (-766) (-)

Ion 85.90 (85.60 to 86.60): VN065057.D (-766) (-)

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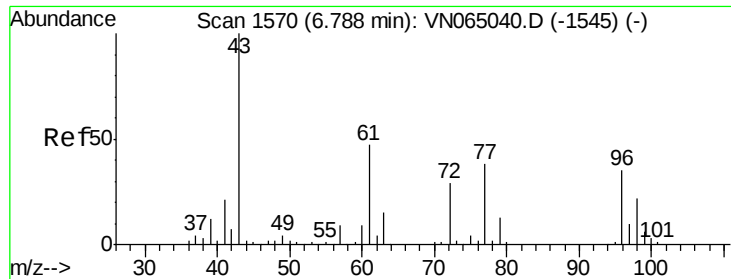
4.51

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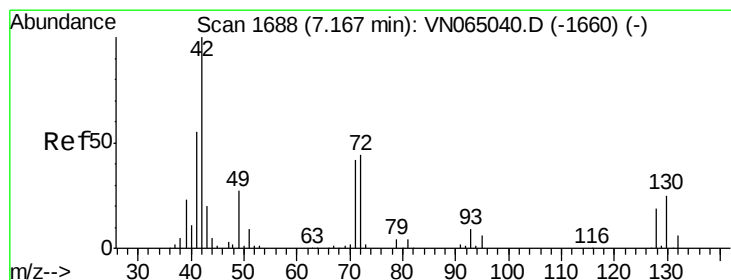
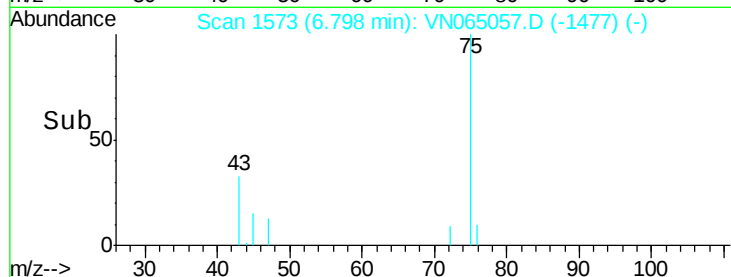
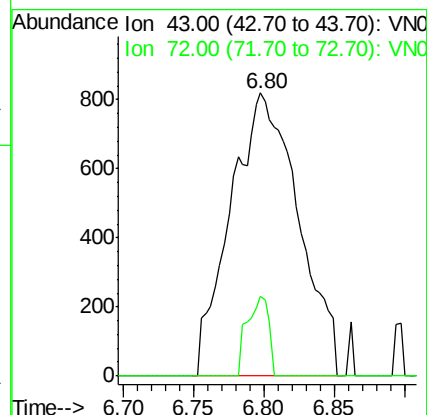
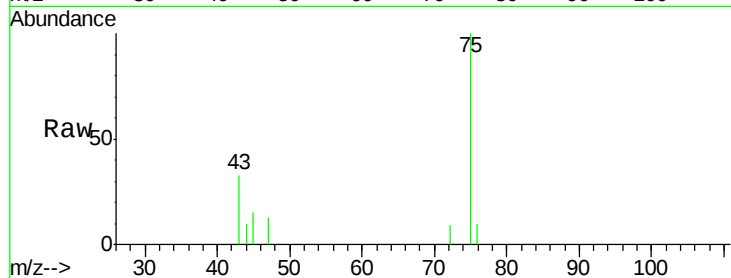
4.51



#25
2-Butanone
Concen: 2.964 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN065057.D
Acq: 10 Dec 2020 21:20

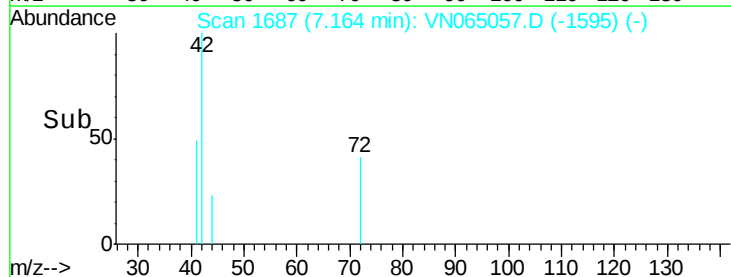
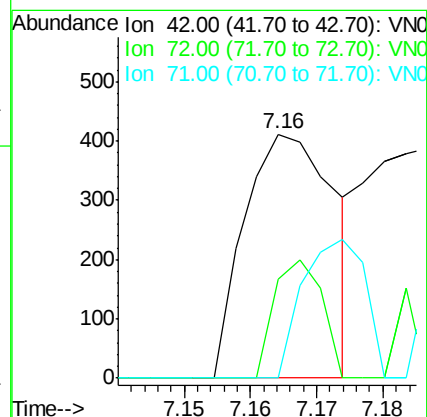
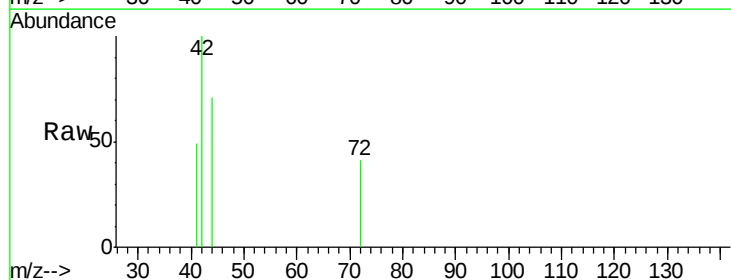
Instrument :
MSVOA_N
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PB133501ZHE#05

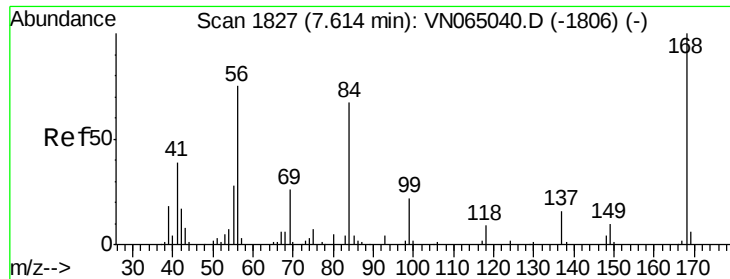
Tgt Ion: 43 Resp: 2748
Ion Ratio Lower Upper
43 100
72 28.3 22.9 34.3



#29
Tetrahydrofuran
Concen: 0.668 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN065057.D
Acq: 10 Dec 2020 21:20

Tgt Ion: 42 Resp: 389
Ion Ratio Lower Upper
42 100
72 25.7 35.8 53.6#
71 39.6 33.5 50.3

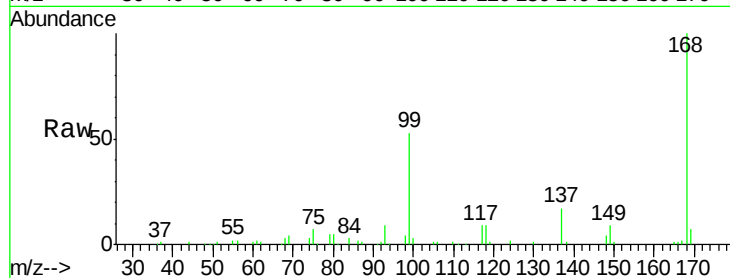




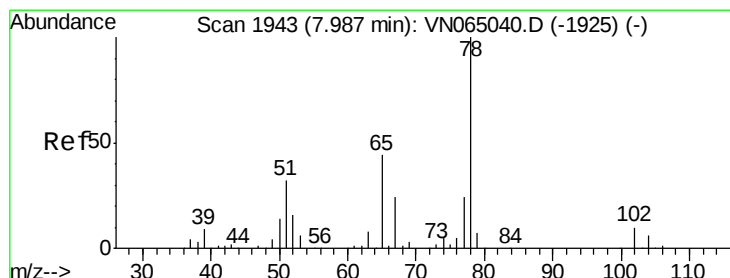
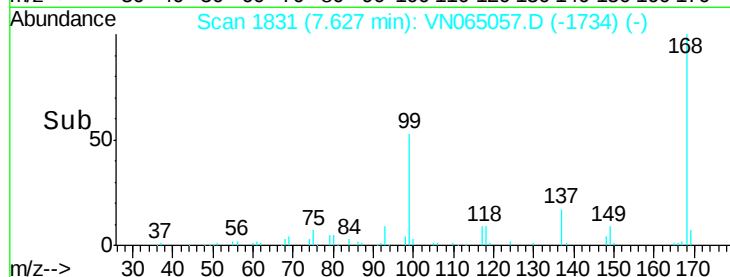
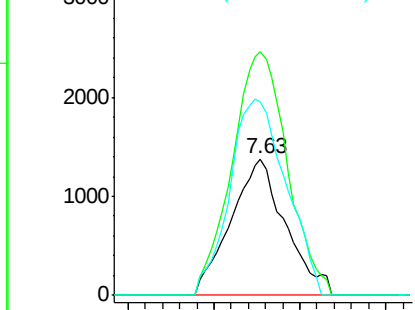
#31
Cyclohexane
Concen: 2.748 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN065057.D
Acq: 10 Dec 2020 21:20

Instrument :
MSVOA_N
ClientSampleId :
PB133501ZHE#05

Tgt Ion: 56 Resp: 3048
Ion Ratio Lower Upper
56 100
69 178.4 27.5 41.3#
84 142.2 72.4 108.6#

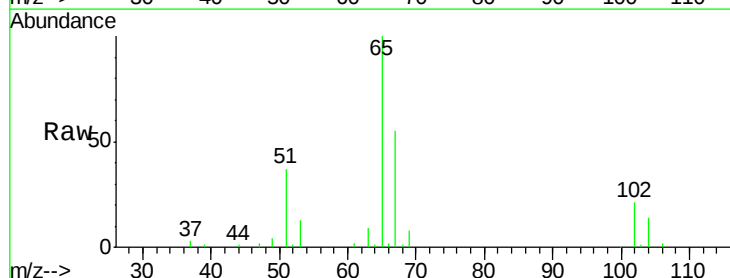


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

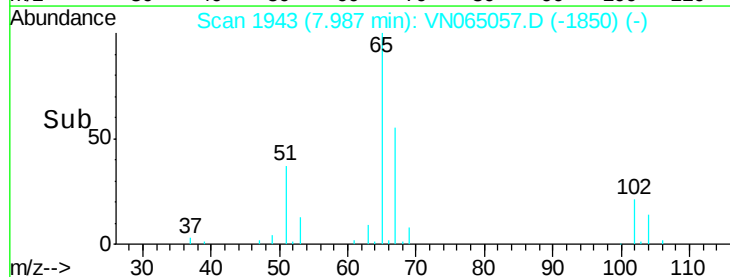
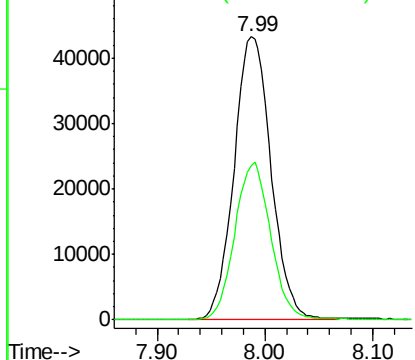


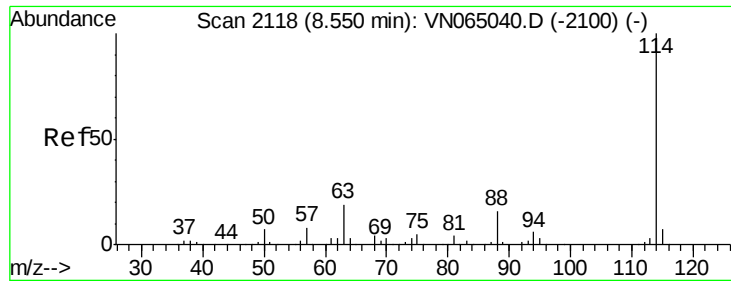
#33
1,2-Dichloroethane-d4
Concen: 54.656 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN065057.D
Acq: 10 Dec 2020 21:20

Tgt Ion: 65 Resp: 103600
Ion Ratio Lower Upper
65 100
67 54.0 0.0 108.4



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: VN065057.D

Acq: 10 Dec 2020 21:20

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#05

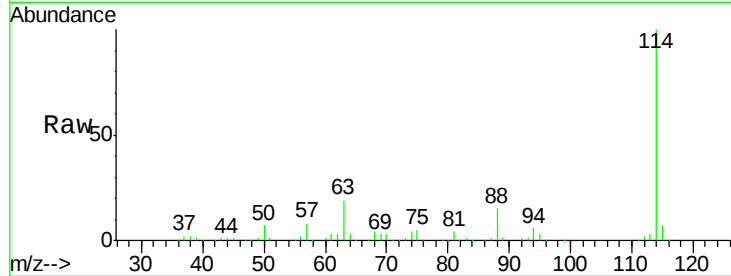
Tgt Ion:114 Resp: 303603

Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.2

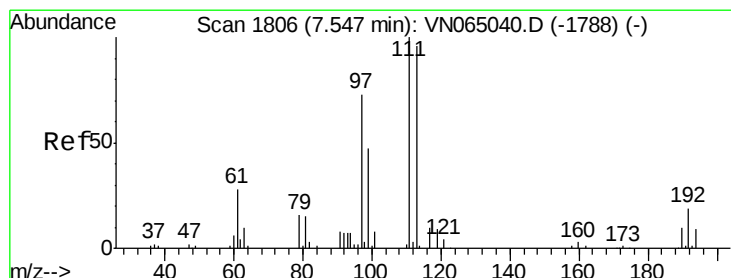
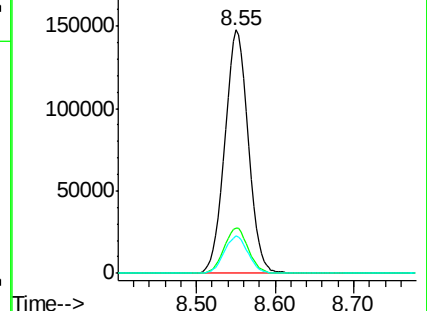
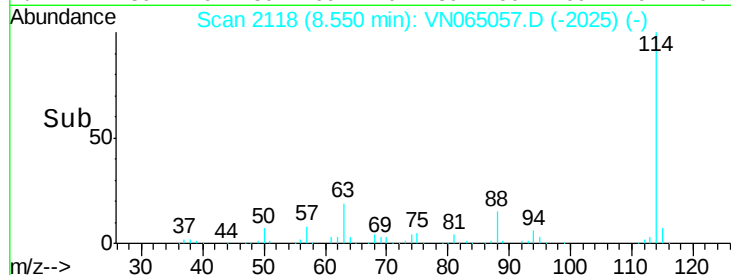
88 15.3 0.0 31.6



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: 48.029 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

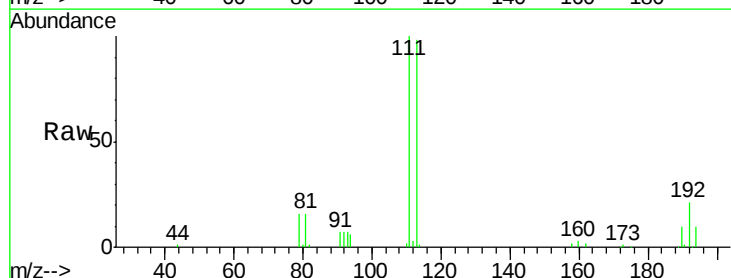
Tgt Ion:113 Resp: 96469

Ion Ratio Lower Upper

113 100

111 101.7 83.4 125.0

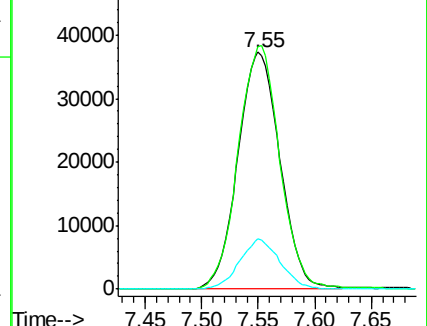
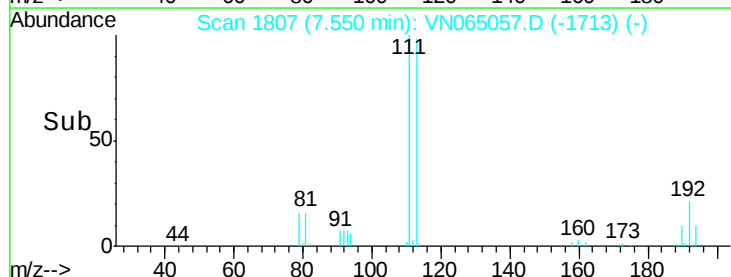
192 20.2 16.2 24.2

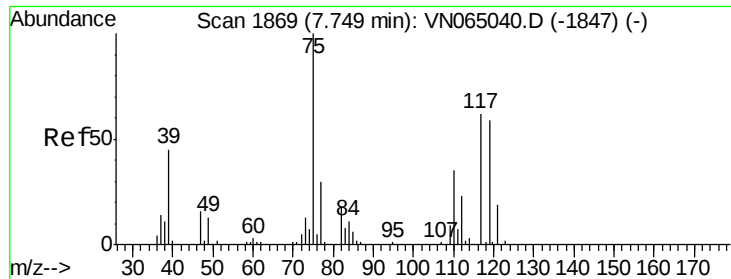


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.258 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.12 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

Instrument :

MSVOA_N

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PB133501ZHE#05

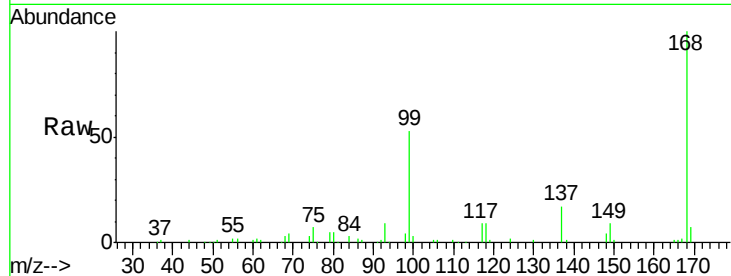
Tgt Ion: 75 Resp: 11025

Ion Ratio Lower Upper

75 100

110 5.0 18.1 54.1#

77 0.0 24.5 36.7#

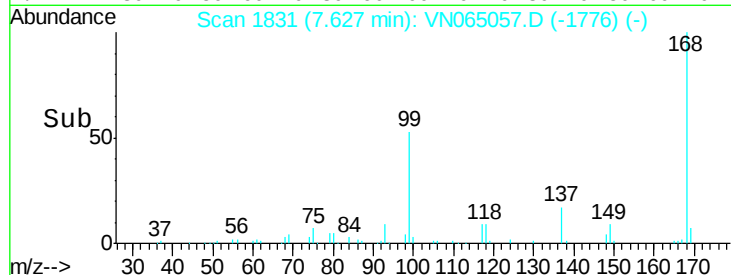


Abundance Ion 74.90 (74.60 to 75.60): VN065040.D (-1847) (-)

Ion 109.90 (109.60 to 110.60): VN065040.D (-1847) (-)

Ion 76.90 (76.60 to 77.60): VN065040.D (-1847) (-)

Time-->

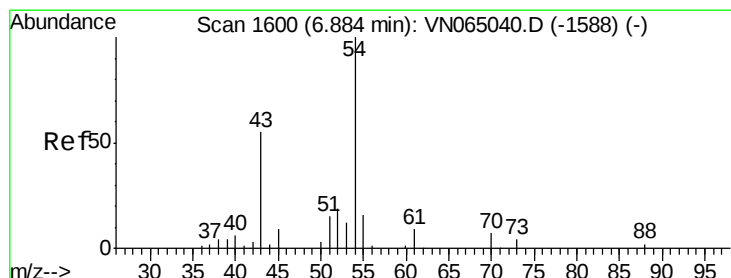


Abundance Ion 74.90 (74.60 to 75.60): VN065057.D (-1776) (-)

Ion 109.90 (109.60 to 110.60): VN065057.D (-1776) (-)

Ion 76.90 (76.60 to 77.60): VN065057.D (-1776) (-)

Time-->



#37

Ethyl Acetate

Concen: 1.167 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. -0.09 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

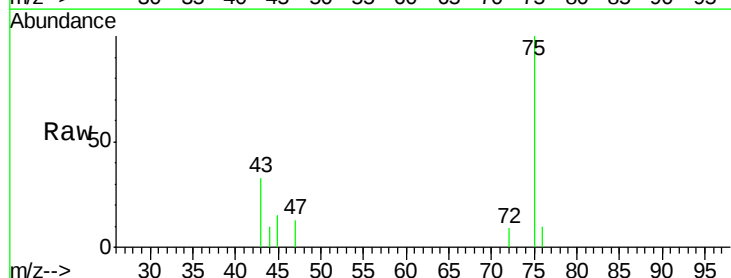
Tgt Ion: 43 Resp: 2748

Ion Ratio Lower Upper

43 100

61 0.0 11.9 17.9#

70 0.0 9.2 13.8#

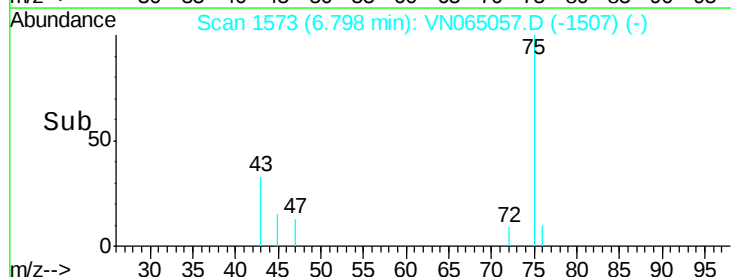


Abundance Ion 43.00 (42.70 to 43.70): VN065040.D (-1588) (-)

Ion 60.90 (60.60 to 61.60): VN065040.D (-1588) (-)

Ion 70.00 (69.70 to 70.70): VN065040.D (-1588) (-)

Time-->

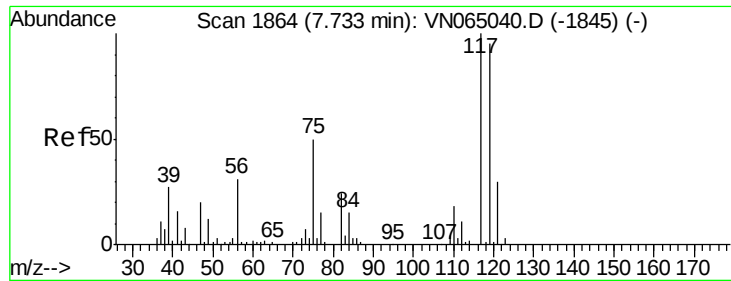


Abundance Ion 43.00 (42.70 to 43.70): VN065057.D (-1507) (-)

Ion 60.90 (60.60 to 61.60): VN065057.D (-1507) (-)

Ion 70.00 (69.70 to 70.70): VN065057.D (-1507) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.344 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#05

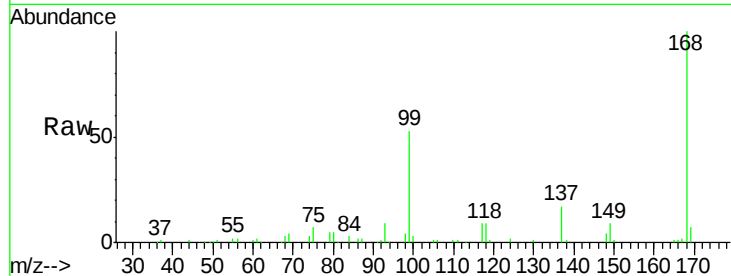
Tgt Ion: 117 Resp: 14703

Ion Ratio Lower Upper

117 100

119 6.8 75.9 113.9#

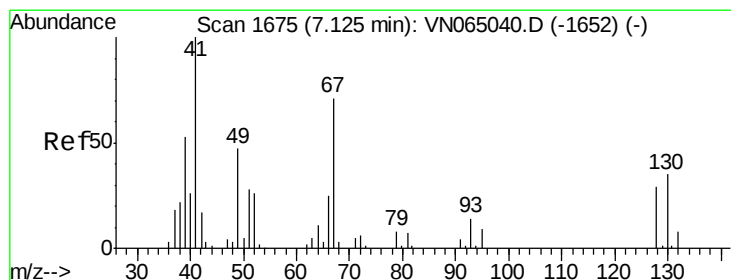
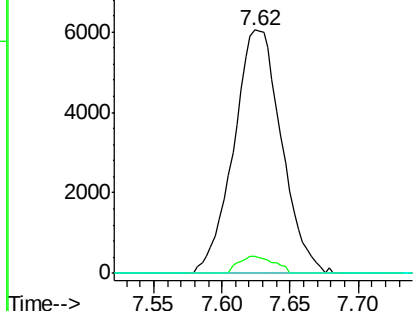
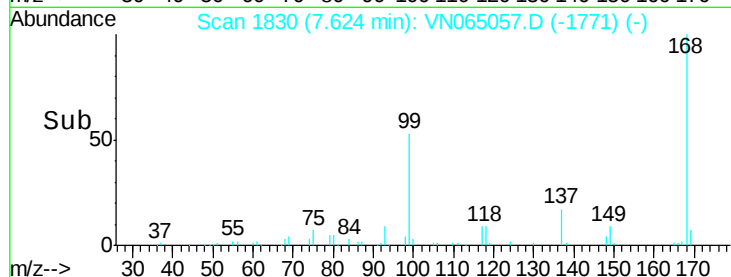
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.390 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.05 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

Tgt Ion: 41 Resp: 477

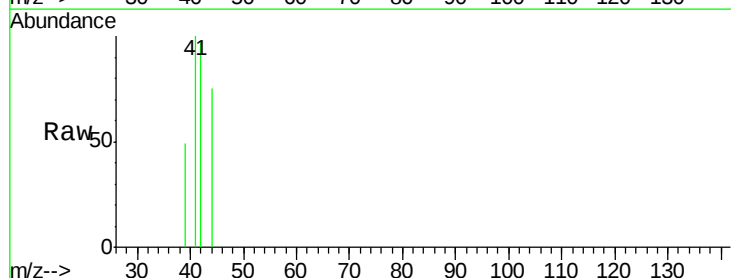
Ion Ratio Lower Upper

41 100

39 21.0 36.0 54.0#

67 0.0 64.8 97.2#

52 0.0 25.4 38.2#

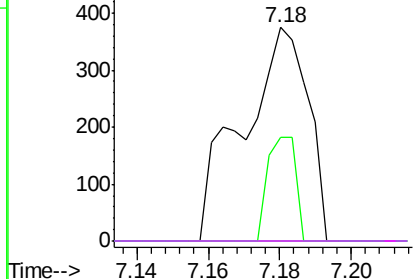
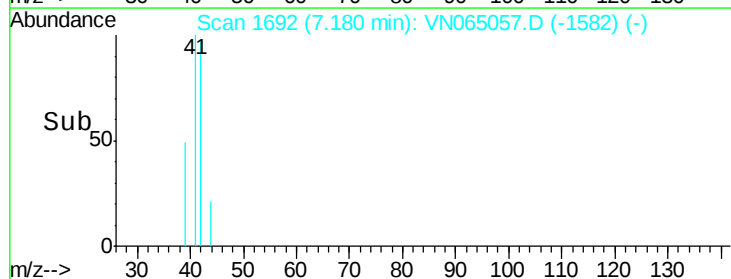


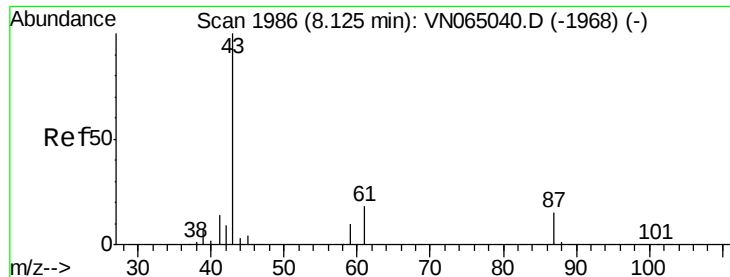
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 4.117 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#05

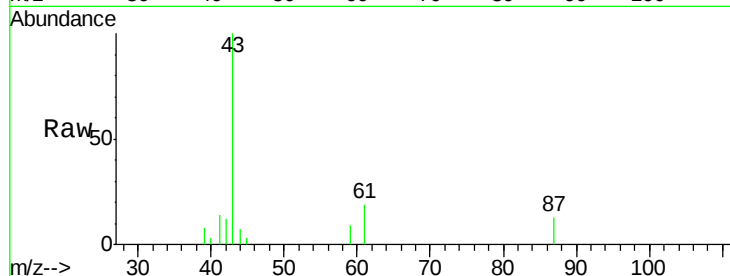
Tgt Ion: 43 Resp: 16114

Ion Ratio Lower Upper

43 100

61 18.9 16.9 25.3

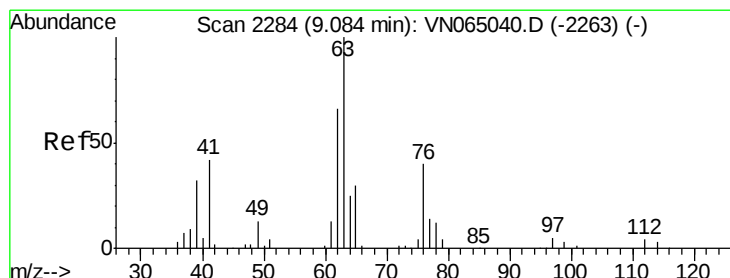
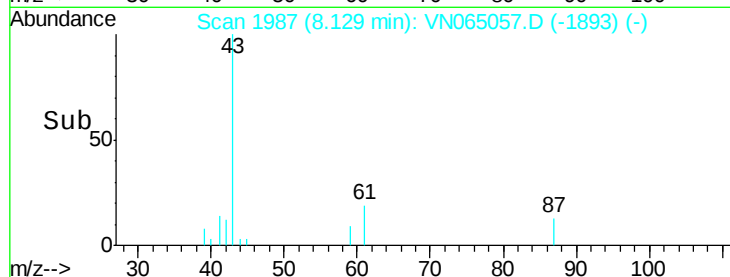
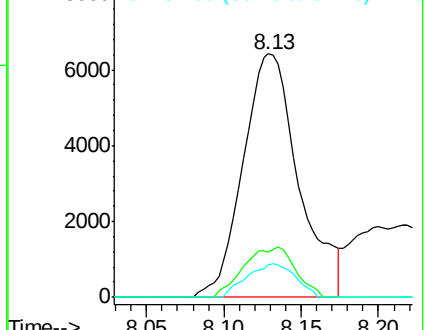
87 12.0 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VN065040.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN065040.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN065040.D (-1968) (-)



#45

1,2-Dichloropropane

Concen: 0.462 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN065057.D

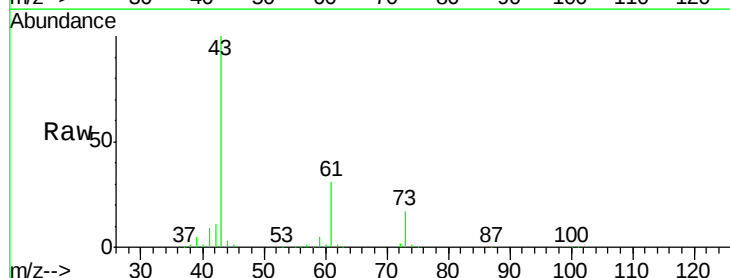
Acq: 10 Dec 2020 21:20

Tgt Ion: 63 Resp: 1002

Ion Ratio Lower Upper

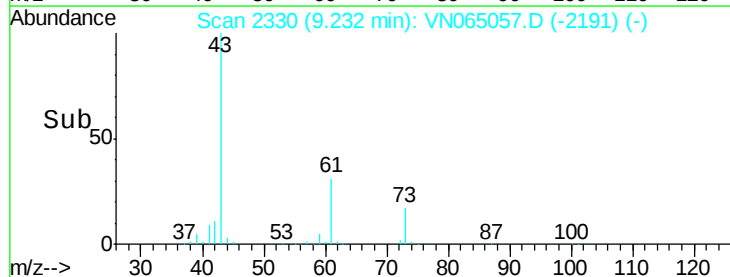
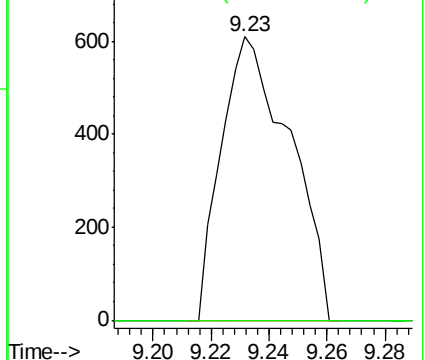
63 100

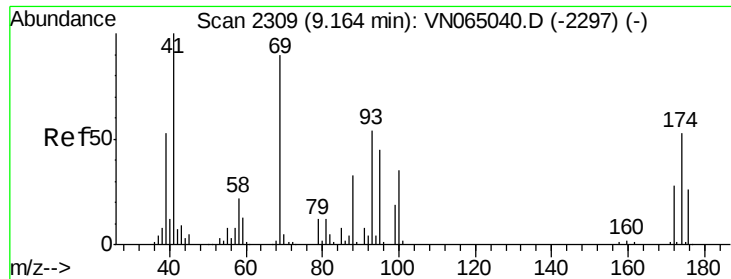
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN065040.D (-2263) (-)

Ion 64.90 (64.60 to 65.60): VN065040.D (-2263) (-)

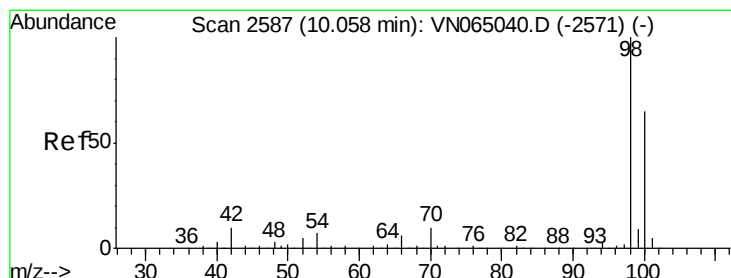
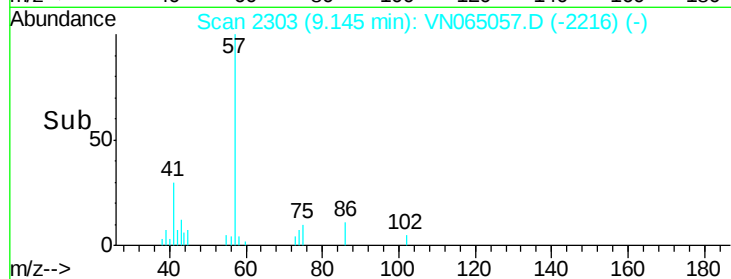
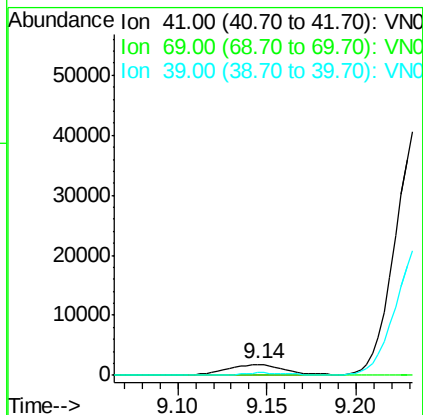
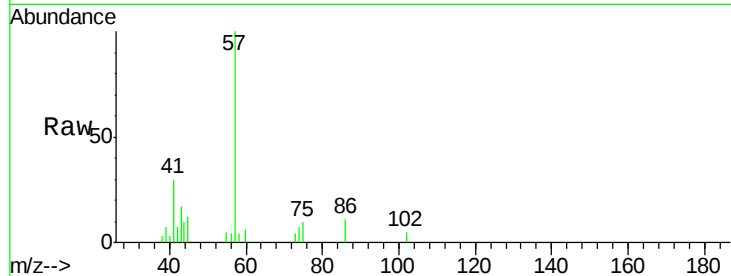




#48
Methyl methacrylate
Concen: 2.234 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN065057.D
Acq: 10 Dec 2020 21:20

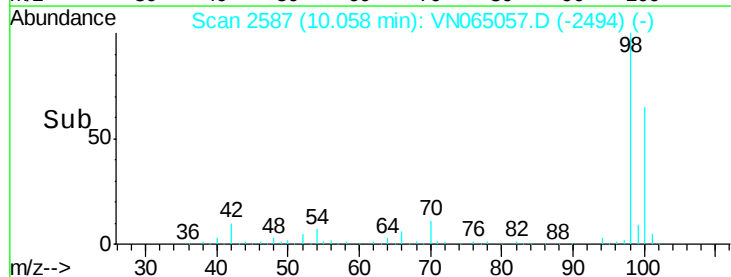
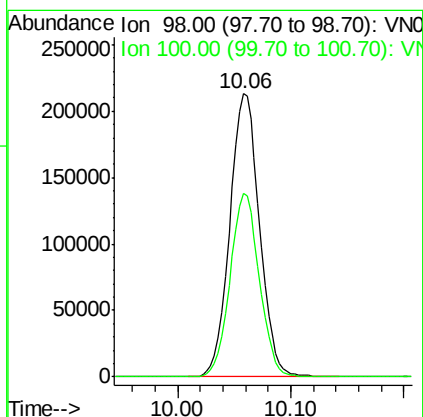
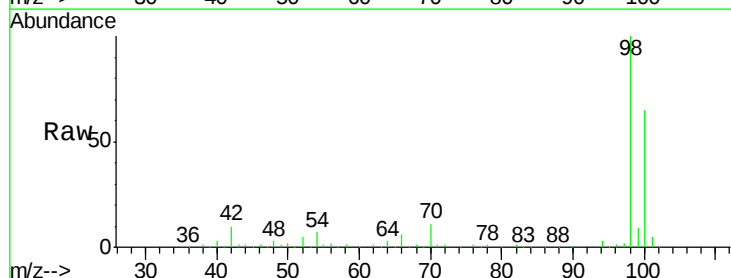
Instrument :
MSVOA_N
ClientSampleId :
PB133501ZHE#05

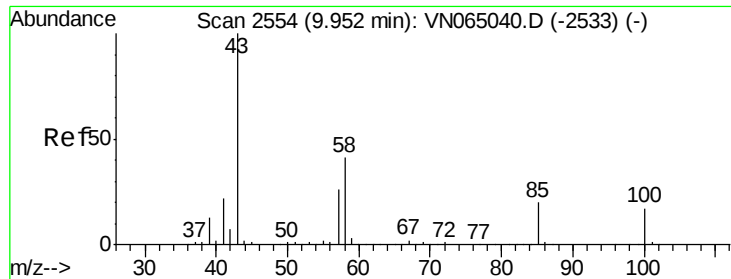
Tgt Ion: 41 Resp: 4151
Ion Ratio Lower Upper
41 100
69 0.0 72.1 108.1#
39 0.0 43.8 65.6#



#50
Toluene-d8
Concen: 50.518 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN065057.D
Acq: 10 Dec 2020 21:20

Tgt Ion: 98 Resp: 389273
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4

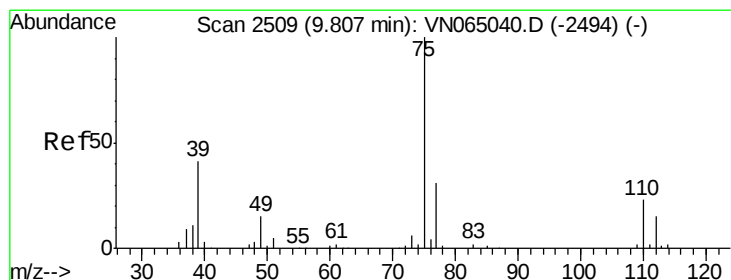
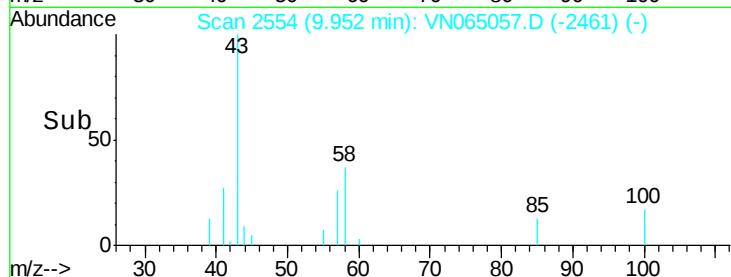
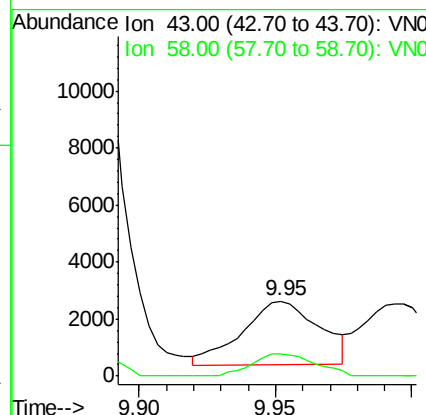
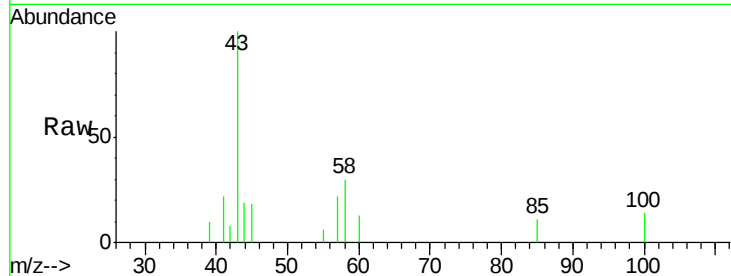




#51
 4-Methyl-2-Pentanone
 Concen: 1.866 ug/l
 RT: 9.95 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN065057.D
 Acq: 10 Dec 2020 21:20

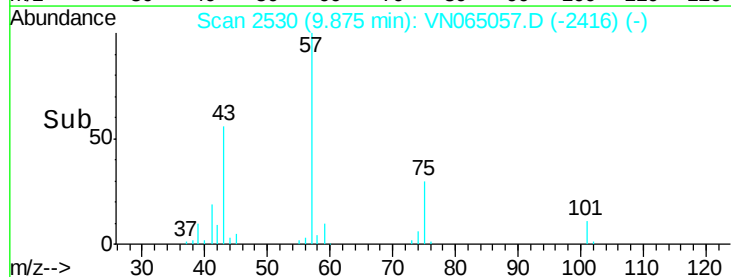
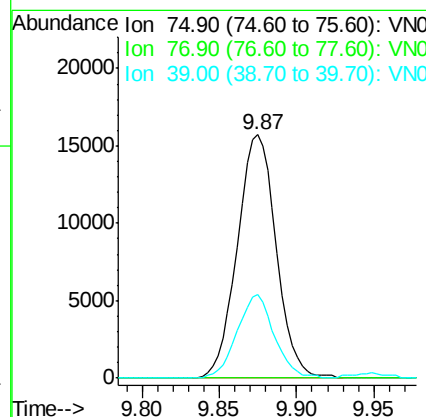
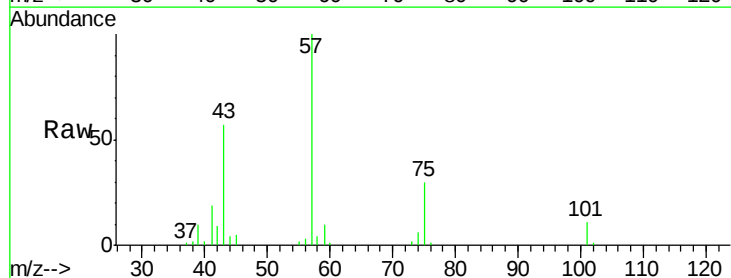
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#05

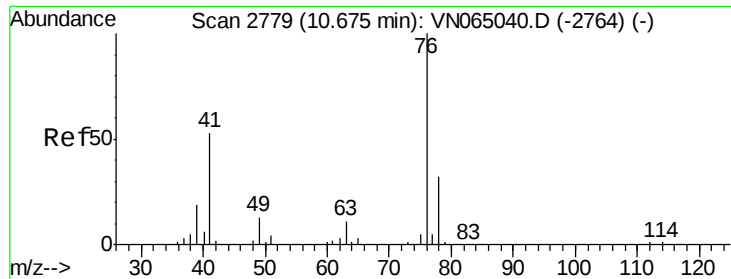
Tgt Ion: 43 Resp: 4366
 Ion Ratio Lower Upper
 43 100
 58 29.0 32.4 48.6#



#54
 cis-1,3-Dichloropropene
 Concen: 7.998 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN065057.D
 Acq: 10 Dec 2020 21:20

Tgt Ion: 75 Resp: 27447
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 34.4 33.0 49.4





#57

1,3-Dichloropropane

Concen: 4.835 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

Instrument :

MSVOA_N

ClientSampleId :

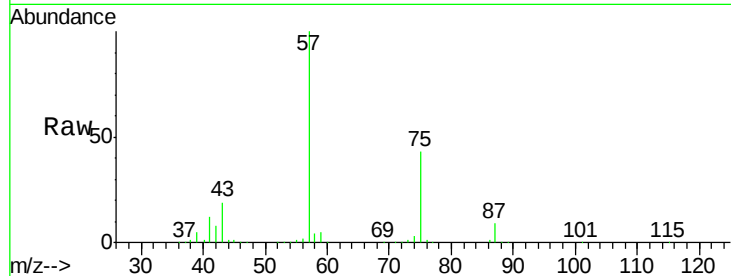
PB133501ZHE#05

Tgt Ion: 76 Resp: 16553

Ion Ratio Lower Upper

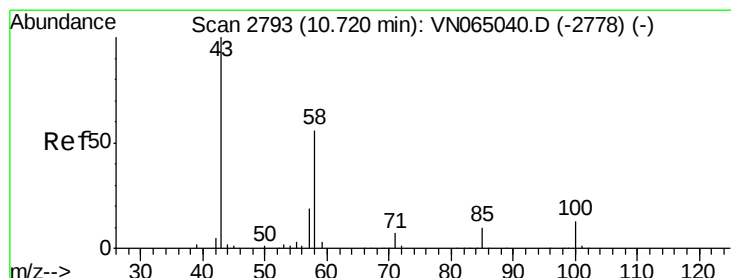
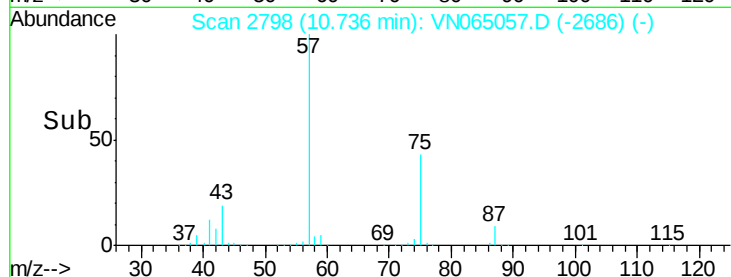
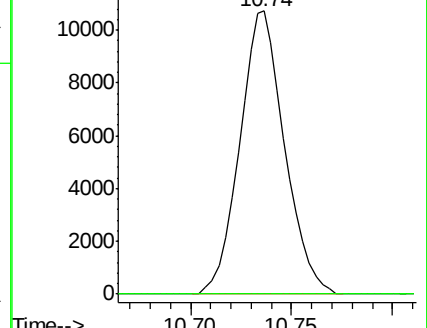
76 100

78 0.0 26.5 39.7#



Abundance Ion 75.90 (75.60 to 76.60): VN065040.D (-2764) (-)

Ion 77.90 (77.60 to 78.60): VN065040.D (-2764) (-)



#59

2-Hexanone

Concen: 128.546 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN065057.D

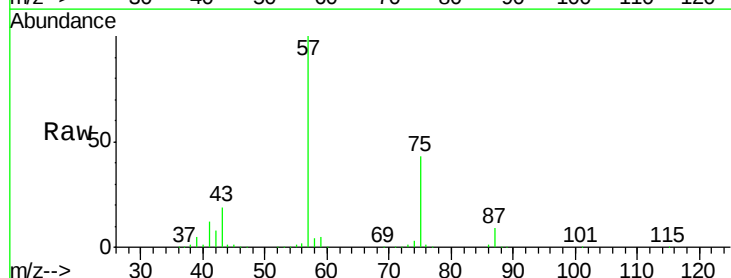
Acq: 10 Dec 2020 21:20

Tgt Ion: 43 Resp: 216690

Ion Ratio Lower Upper

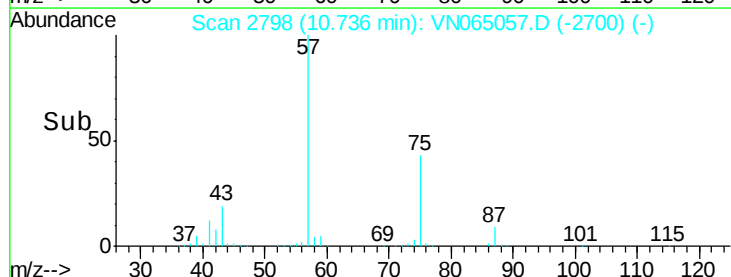
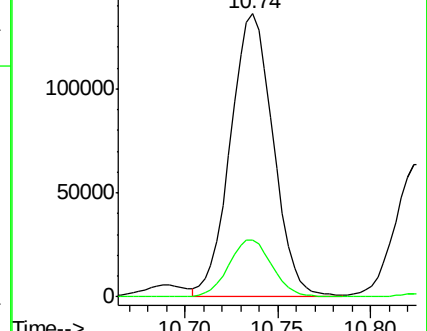
43 100

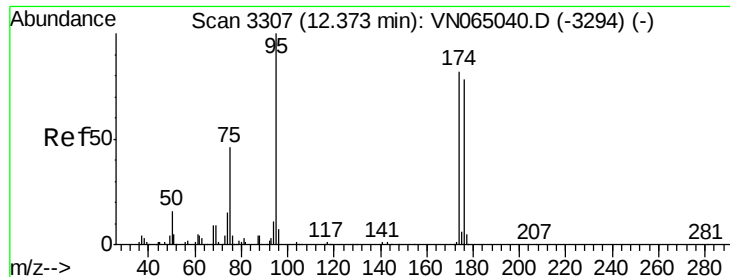
58 20.6 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN065040.D (-2778) (-)

Ion 58.00 (57.70 to 58.70): VN065040.D (-2778) (-)

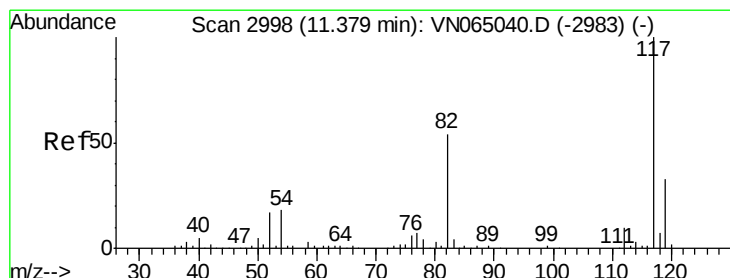
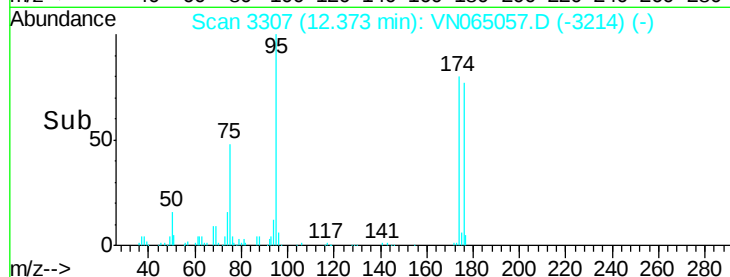
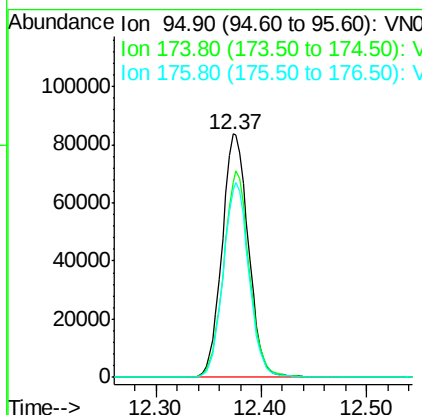
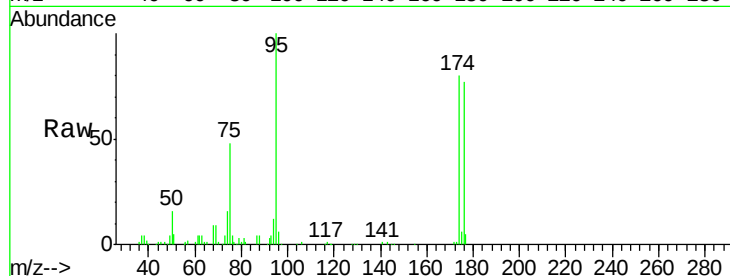




#62
4-Bromofluorobenzene
Concen: 54.736 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN065057.D
Acq: 10 Dec 2020 21:20

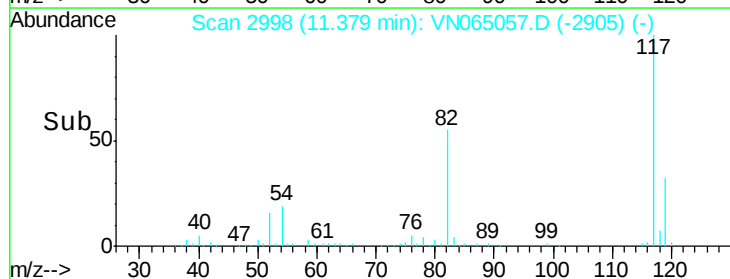
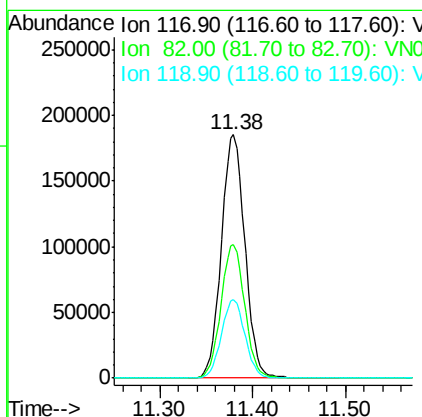
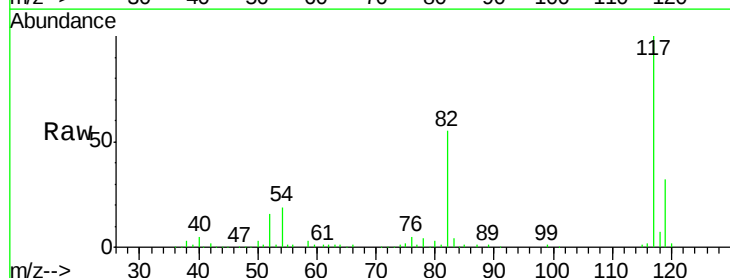
Instrument :
MSVOA_N
ClientSampleId :
PB133501ZHE#05

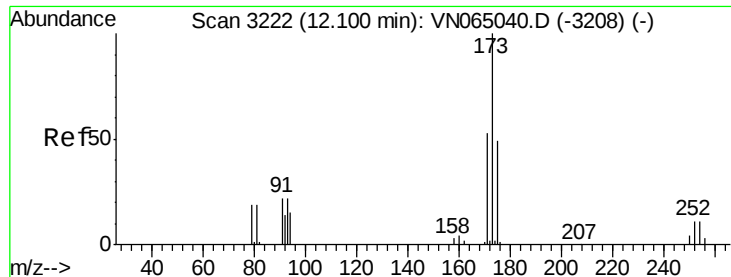
Tgt Ion	Ratio	Lower	Upper
95	100		
174	82.5	0.0	164.8
176	77.5	0.0	158.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065057.D
Acq: 10 Dec 2020 21:20

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.9	43.5	65.3
119	32.0	26.4	39.6





#71

Bromoform

Concen: 0.447 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#05

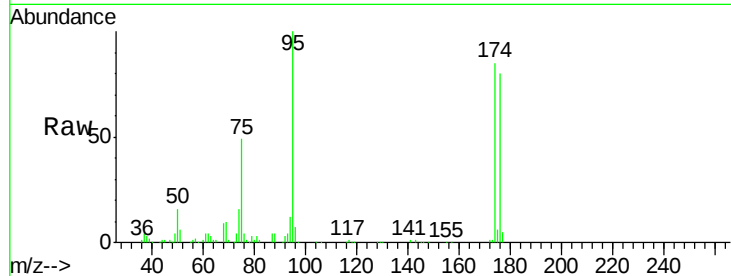
Tgt Ion:173 Resp: 875

Ion Ratio Lower Upper

173 100

175 827.9 24.5 73.5#

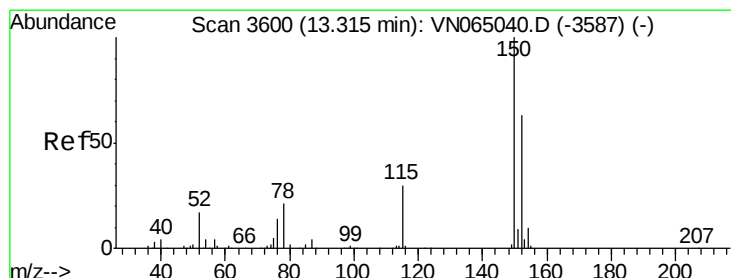
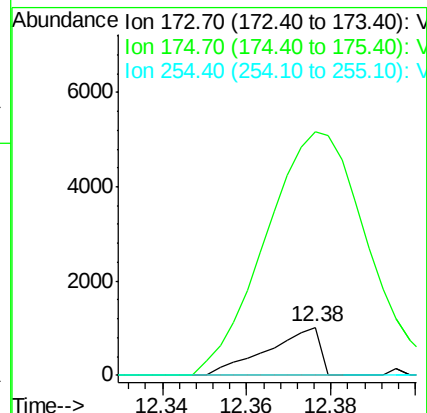
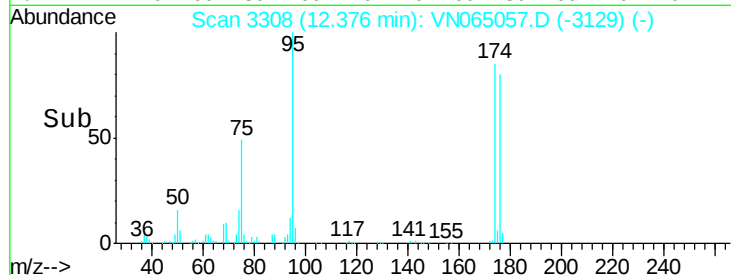
254 0.0 0.0 0.0



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: VN065057.D

Acq: 10 Dec 2020 21:20

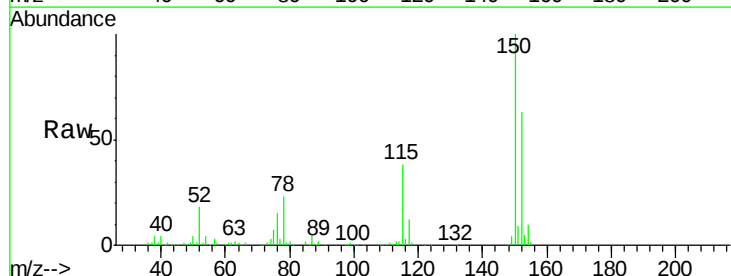
Tgt Ion:152 Resp: 132387

Ion Ratio Lower Upper

152 100

115 58.9 29.3 88.0

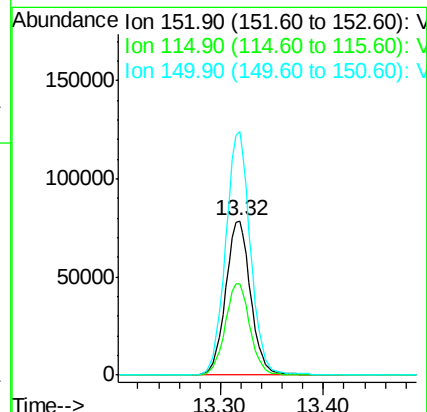
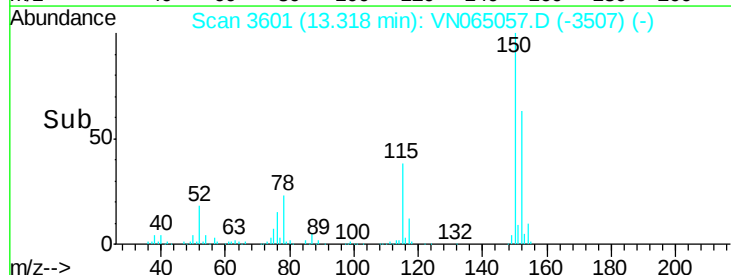
150 155.9 0.0 345.8

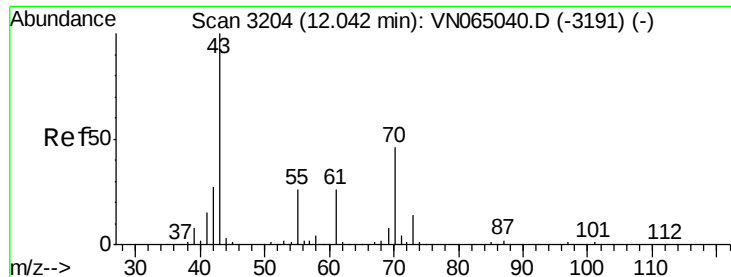


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.293 ug/l

RT: 12.03 min Scan# 3199

Delta R.T. -0.02 min

Lab File: VN065057.D

Acq: 10 Dec 2020 21:20

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#05

Tgt Ion: 43 Resp: 930

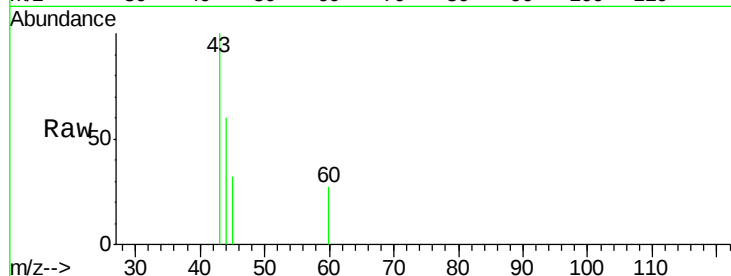
Ion Ratio Lower Upper

43 100

70 0.0 36.2 54.2#

55 0.0 21.4 32.0#

61 0.0 19.8 29.8#

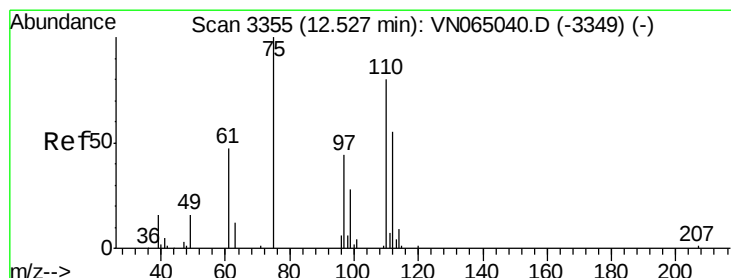
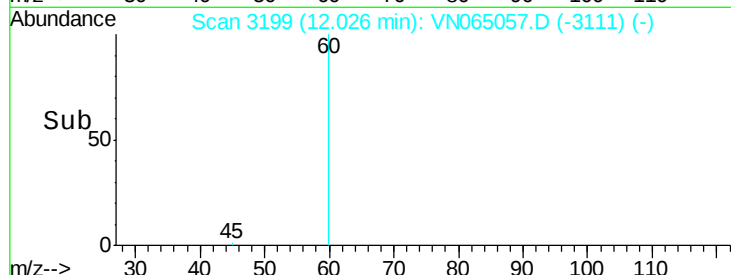
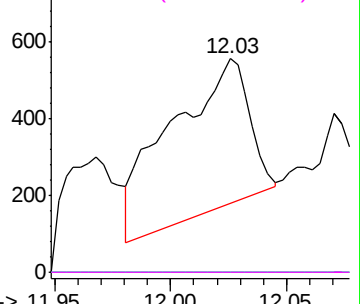


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 26.746 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN065057.D

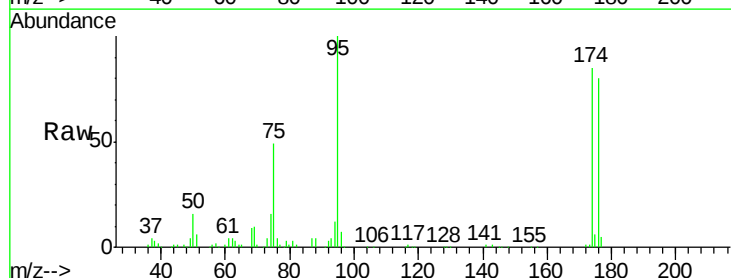
Acq: 10 Dec 2020 21:20

Tgt Ion: 75 Resp: 68972

Ion Ratio Lower Upper

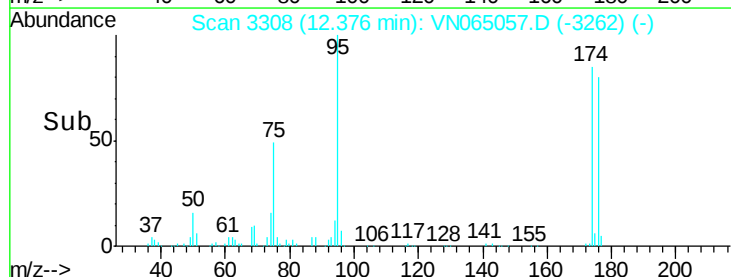
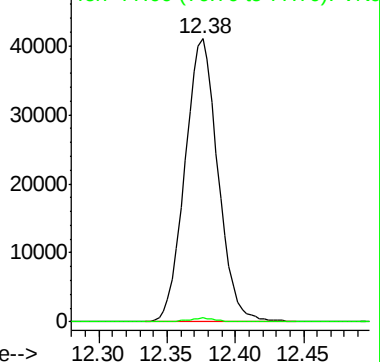
75 100

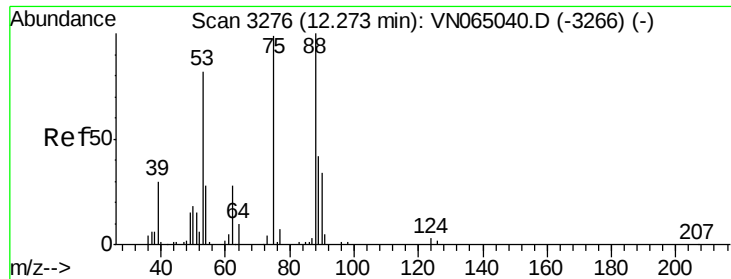
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 76.127 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN065057.D

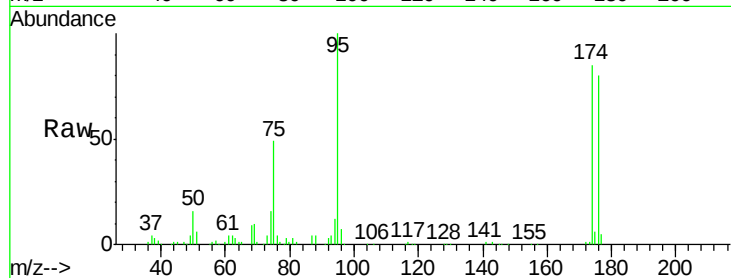
Acq: 10 Dec 2020 21:20

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#05



Tgt Ion: 75 Resp: 68972

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

89 0.0 36.2 54.4#

