

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\
 Data File : VN064352.D
 Acq On : 28 Oct 2020 15:10
 Operator : JC/MD
 Sample : PB132665ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#04

Quant Time: Oct 29 02:42:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	254810	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	441998	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	439339	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	194005	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	190189	46.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.90%	
35) Dibromofluoromethane	7.55	113	144464	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
50) Toluene-d8	10.06	98	538257	49.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.74%	
62) 4-Bromofluorobenzene	12.38	95	233326	54.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.78%	

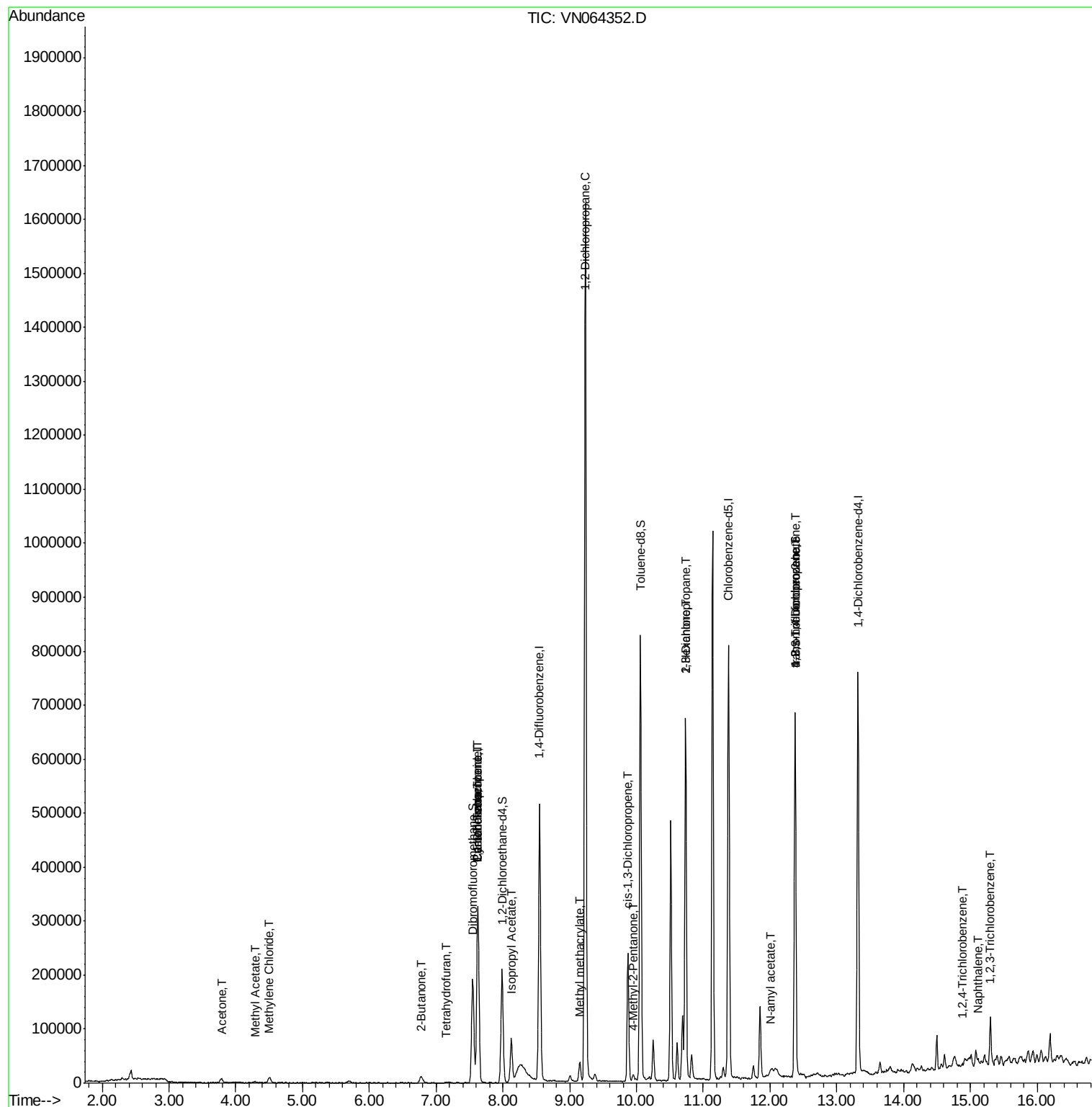
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	14611	3.215	ug/l #	88
18) Methyl Acetate	4.28	43	2855	0.928	ug/l	96
20) Methylene Chloride	4.49	84	2646	0.911	ug/l	95
25) 2-Butanone	6.78	43	1388	0.675	ug/l #	87
29) Tetrahydrofuran	7.15	42	449	0.336	ug/l #	69
31) Cyclohexane	7.61	56	5867	1.235	ug/l #	35
36) 1,1-Dichloropropene	7.62	75	21359	4.788	ug/l #	54
38) Carbon Tetrachloride	7.62	117	26272	5.080	ug/l #	17
43) Isopropyl Acetate	8.13	43	102240	13.274	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1666	0.501	ug/l #	44
48) Methyl methacrylate	9.14	41	5046	1.270	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	9650	2.155	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	39033	6.957	ug/l #	63
57) 1,3-Dichloropropane	10.74	76	6585	1.248	ug/l #	42
59) 2-Hexanone	10.74	43	106765	32.378	ug/l #	54
74) N-amyl acetate	12.01	43	7259	1.135	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	128116	27.576	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	128116	79.434	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.89	180	69	2.036	ug/l #	1
95) Naphthalene	15.11	128	787	2.461	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.28	180	175	2.231	ug/l #	1

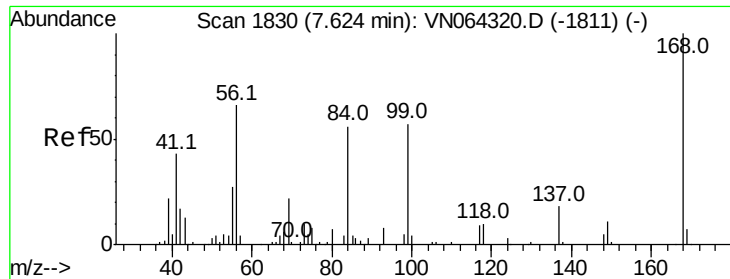
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 12:23:17 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: VN064352.D

Acq: 28 Oct 2020 15:10

Instrument :

MSVOA_N

ClientSampleId :

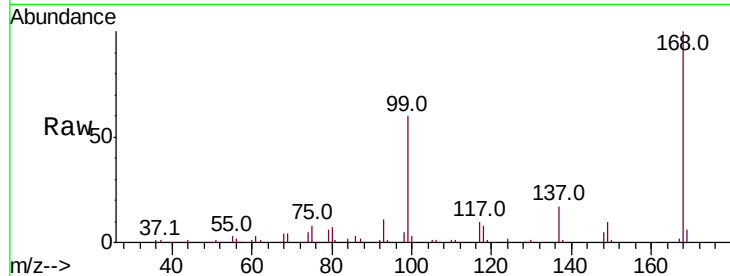
PB132665ZHE#04

Tot Ion:168 Resp: 254810

Ion Ratio Lower Upper

168 100

99 60.0 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): VN064320.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN064320.D (-1811) (-)

7.63

120000

100000

80000

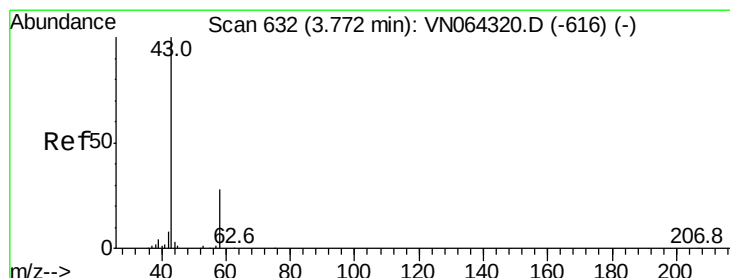
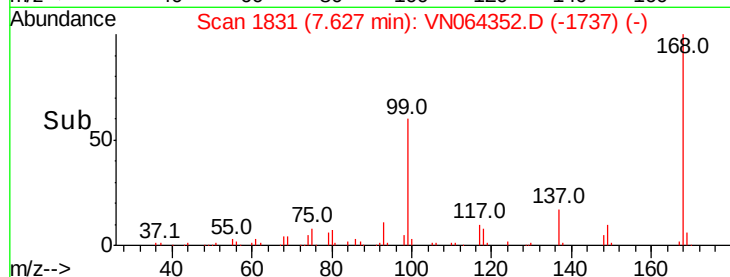
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#16

Acetone

Concen: 3.215 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064352.D

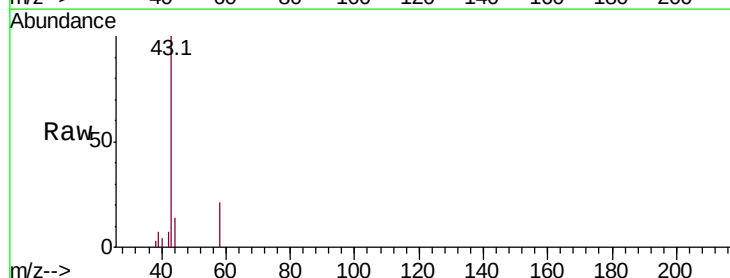
Acq: 28 Oct 2020 15:10

Tgt Ion: 43 Resp: 14611

Ion Ratio Lower Upper

43 100

58 21.3 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-616) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-616) (-)

3.78

5000

4000

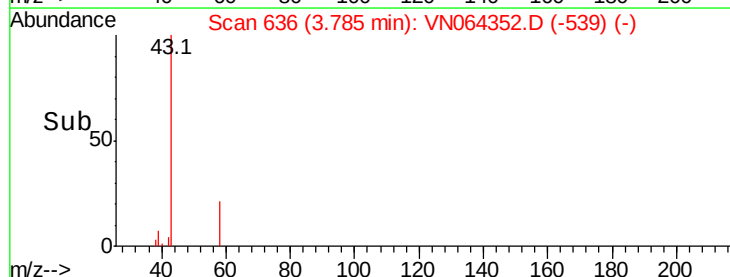
3000

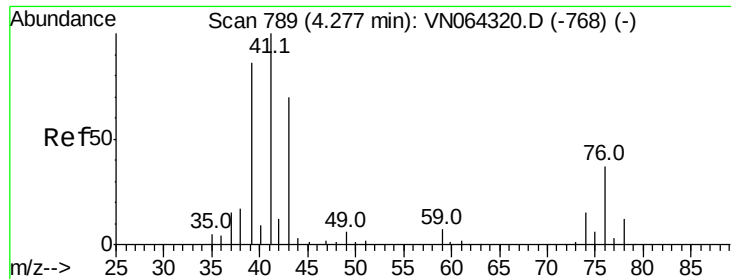
2000

1000

0

Time--> 3.70 3.80 3.90

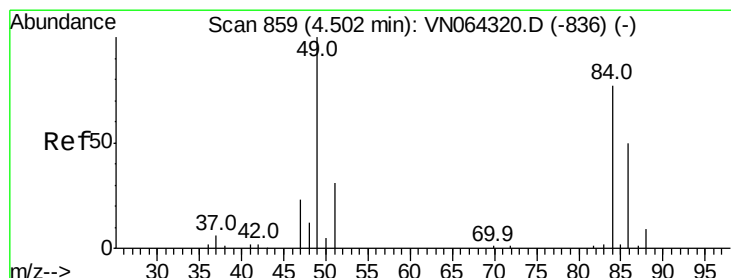
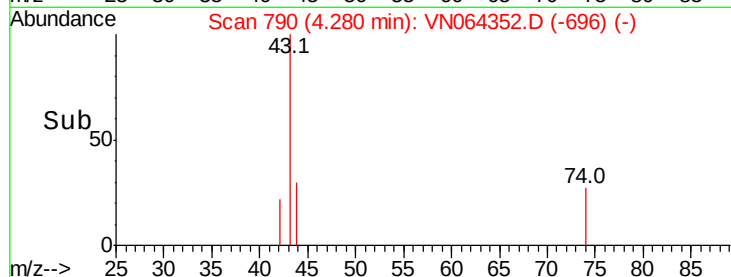
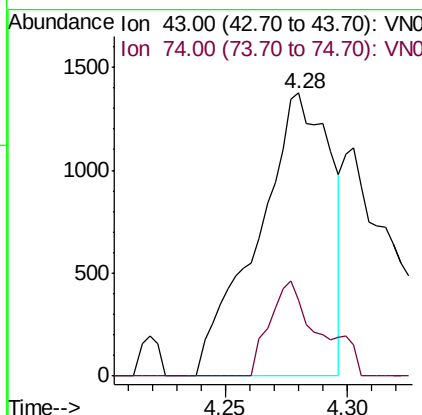
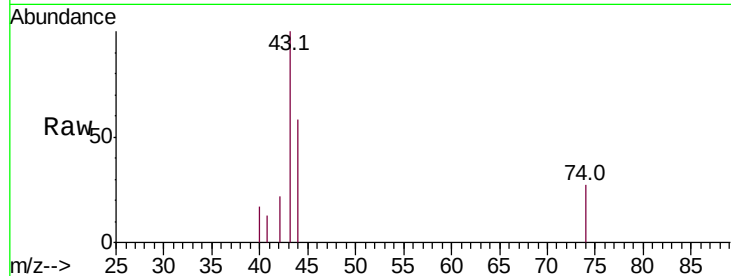




#18
Methyl Acetate
Concen: 0.928 ug/l
RT: 4.28 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN064352.D
Acq: 28 Oct 2020 15:10

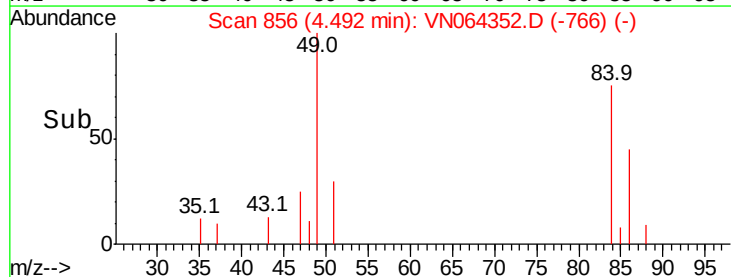
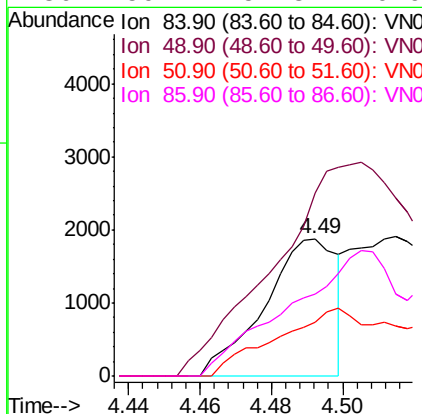
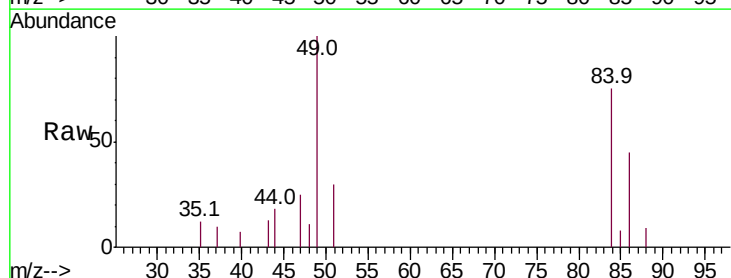
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#04

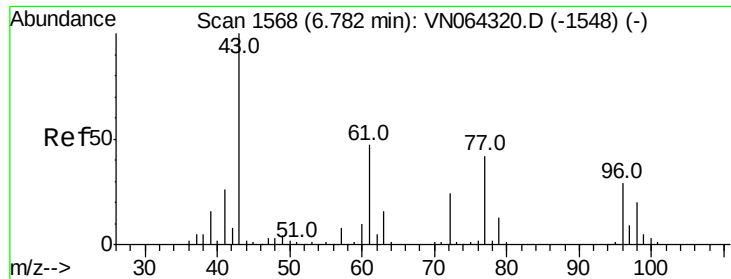
Tot Ion: 43 Resp: 2855
Ion Ratio Lower Upper
43 100
74 22.8 16.7 25.1



#20
Methylene Chloride
Concen: 0.911 ug/l
RT: 4.49 min Scan# 856
Delta R.T. -0.01 min
Lab File: VN064352.D
Acq: 28 Oct 2020 15:10

Tgt Ion: 84 Resp: 2646
Ion Ratio Lower Upper
84 100
49 122.3 103.6 155.4
51 39.4 31.8 47.8
86 59.4 51.3 76.9

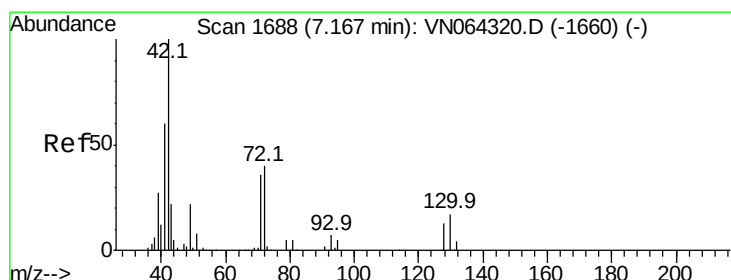
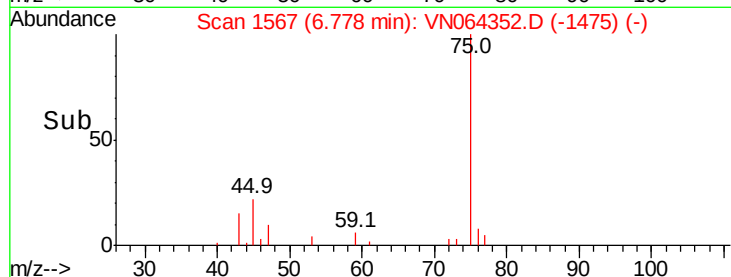
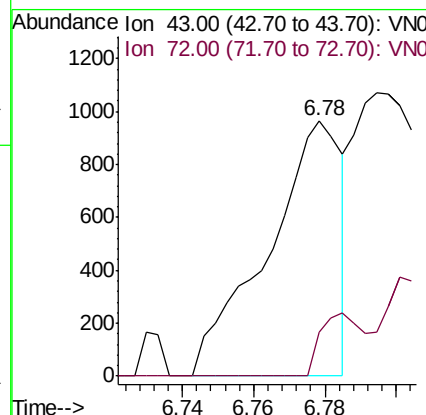
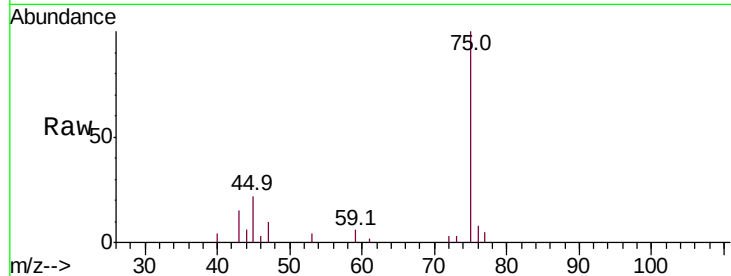




#25
 2-Butanone
 Concen: 0.675 ug/l
 RT: 6.78 min Scan# 1567
 Delta R.T. -0.00 min
 Lab File: VN064352.D
 Acq: 28 Oct 2020 15:10

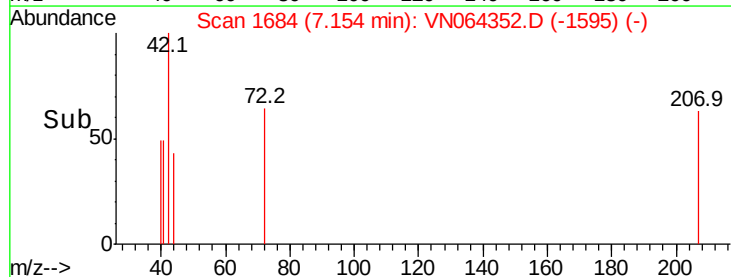
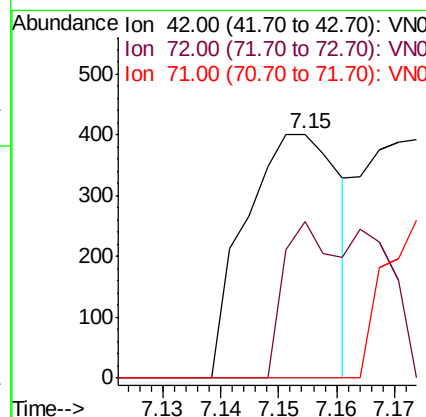
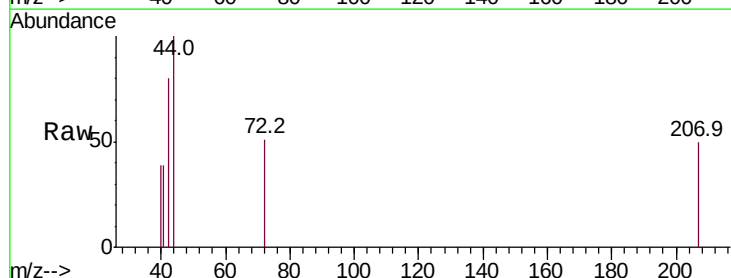
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#04

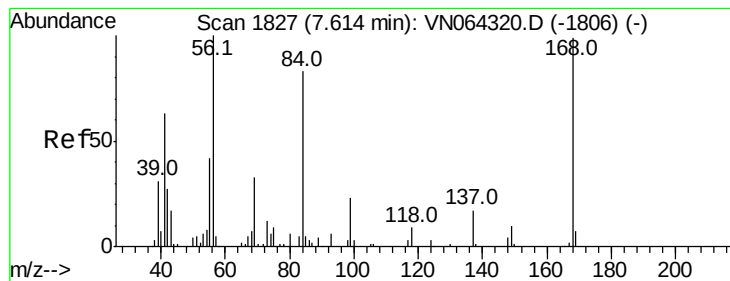
Tot Ion: 43 Resp: 1388
 Ion Ratio Lower Upper
 43 100
 72 17.3 18.8 28.2#



#29
 Tetrahydrofuran
 Concen: 0.336 ug/l
 RT: 7.15 min Scan# 1684
 Delta R.T. -0.01 min
 Lab File: VN064352.D
 Acq: 28 Oct 2020 15:10

Tgt Ion: 42 Resp: 449
 Ion Ratio Lower Upper
 42 100
 72 37.6 31.6 47.4
 71 0.0 29.4 44.0#





#31

Cyclohexane

Concen: 1.235 ug/l

RT: 7.61 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#04

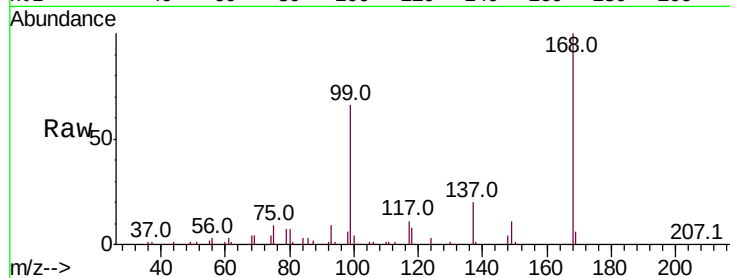
Tot Ion: 56 Resp: 5867

Ion Ratio Lower Upper

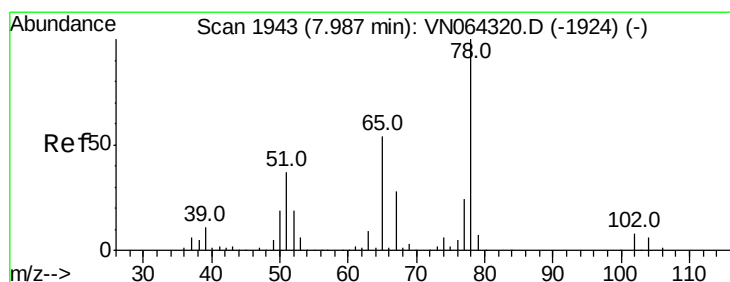
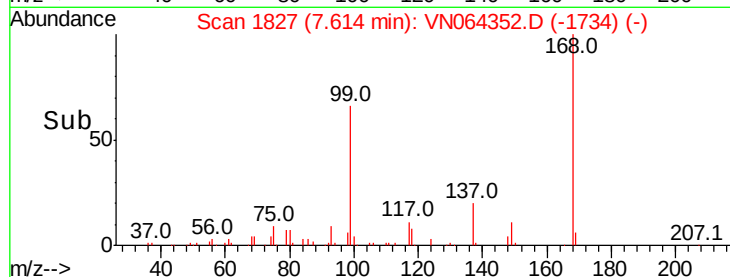
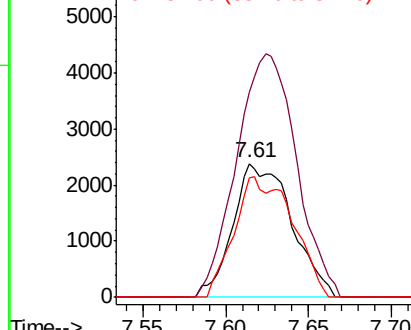
56 100

69 152.7 25.8 38.8#

84 89.2 66.3 99.5



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



#33

1,2-Dichloroethane-d4

Concen: 46.447 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064352.D

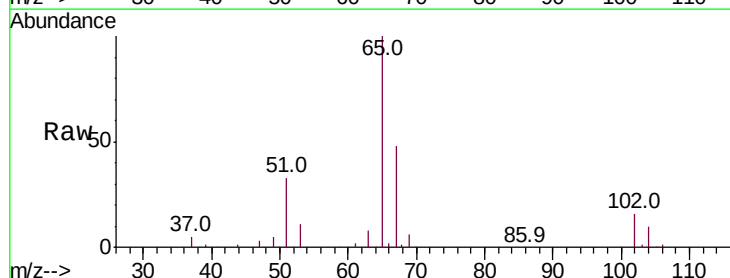
Acq: 28 Oct 2020 15:10

Tgt Ion: 65 Resp: 190189

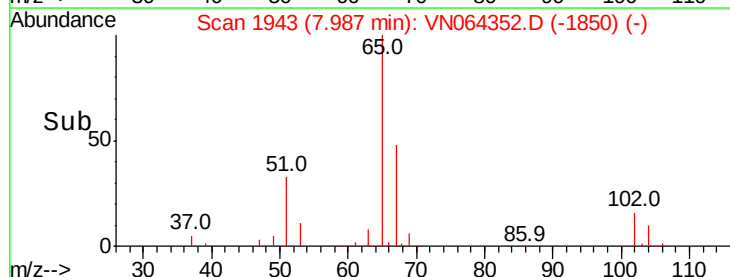
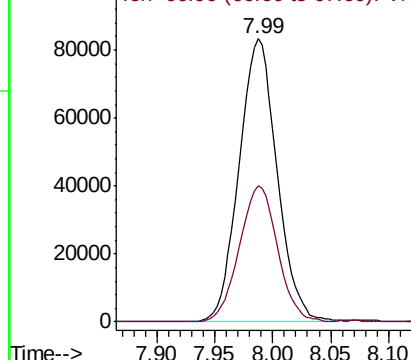
Ion Ratio Lower Upper

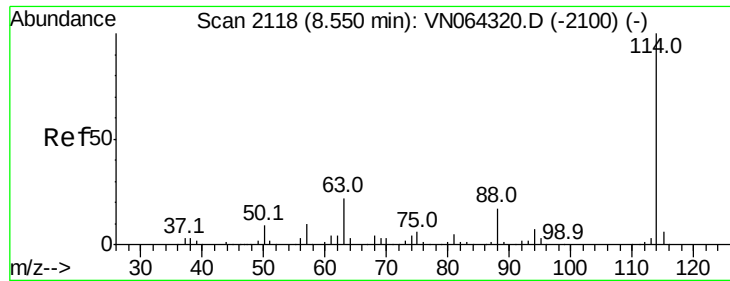
65 100

67 48.6 0.0 99.2



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

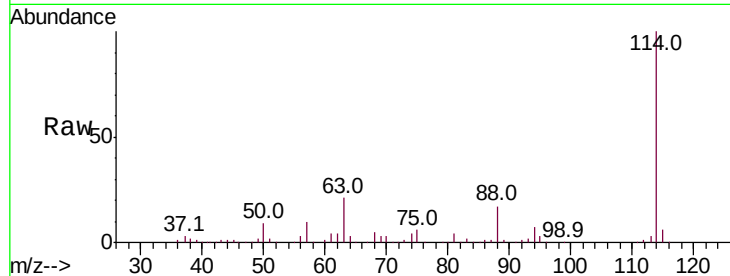




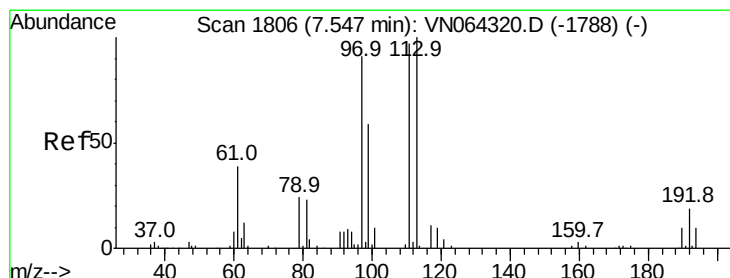
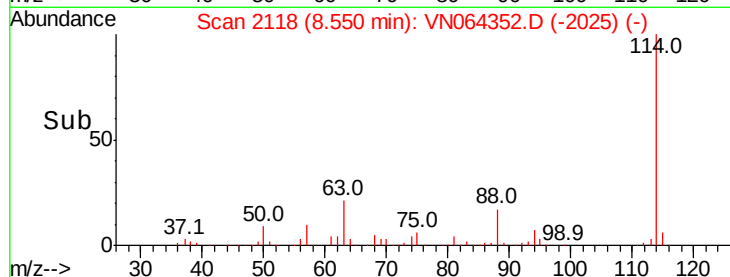
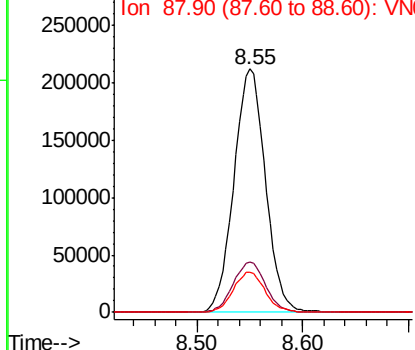
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN064352.D
Acq: 28 Oct 2020 15:10

Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#04

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	44.6
88	16.7	0.0	33.4

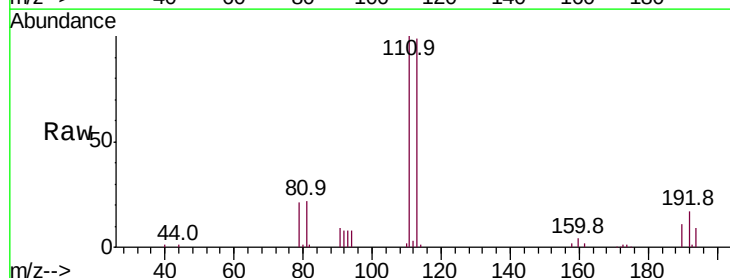


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

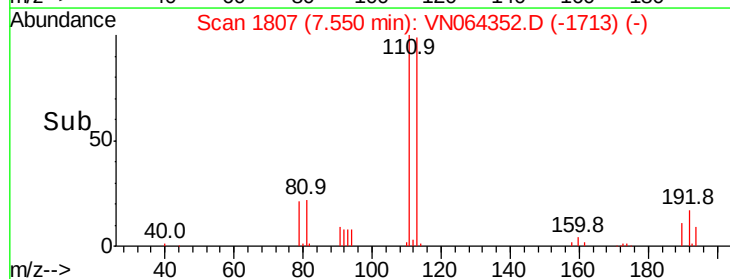
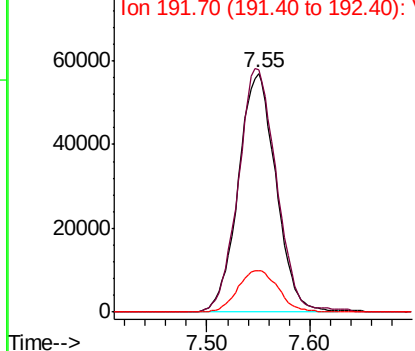


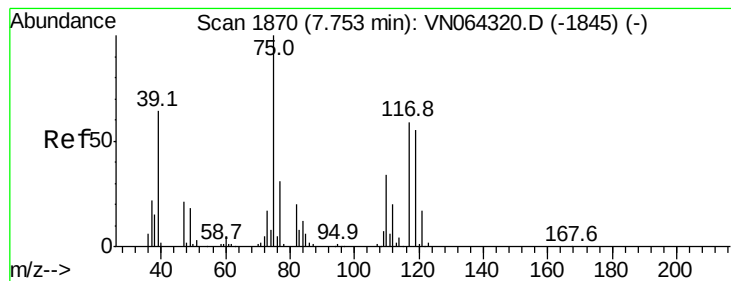
#35
Dibromofluoromethane
Concen: 49.011 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064352.D
Acq: 28 Oct 2020 15:10

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.5	122.3
192	18.7	15.0	22.4



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: 4.788 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#04

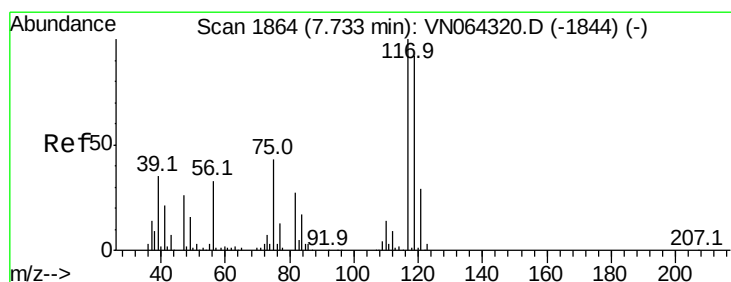
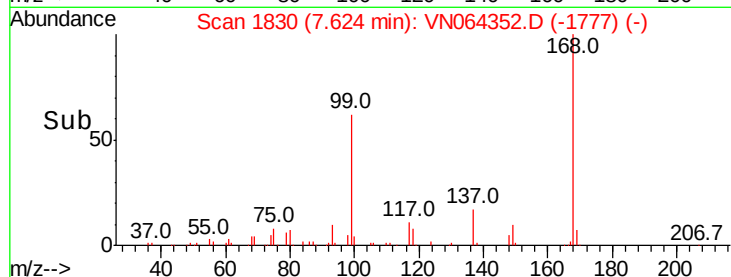
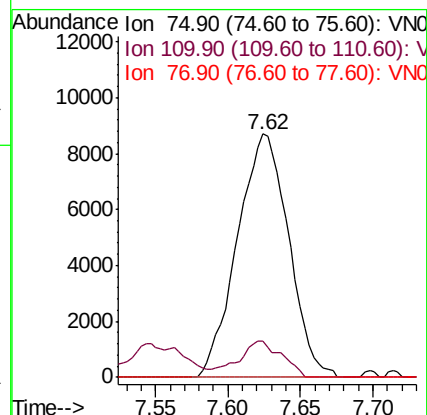
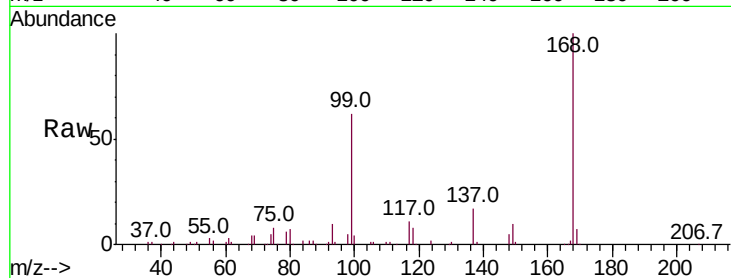
Tot Ion: 75 Resp: 21359

Ion Ratio Lower Upper

75 100

110 12.7 16.8 50.3#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 5.080 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

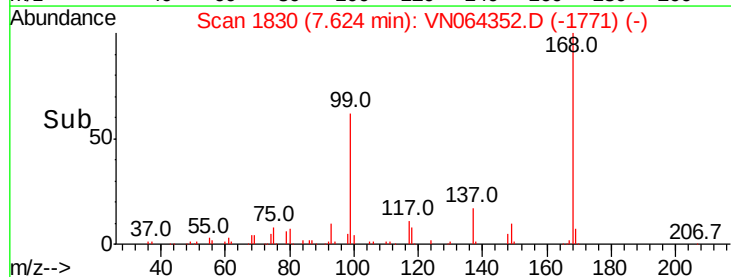
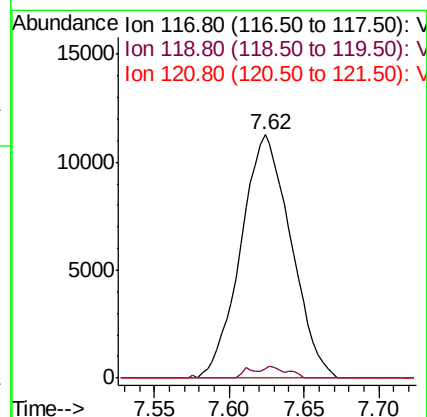
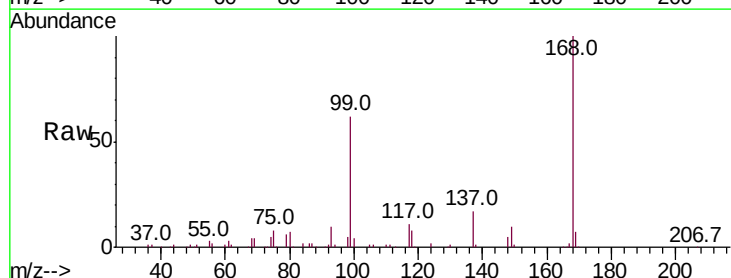
Tgt Ion: 117 Resp: 26272

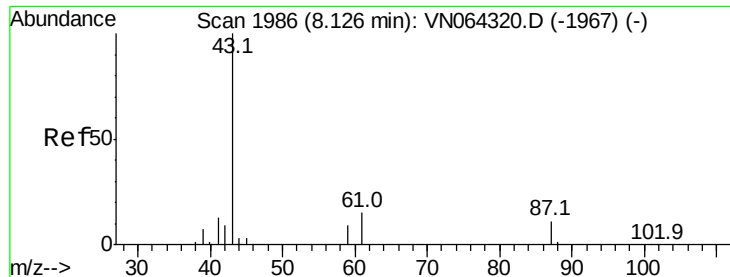
Ion Ratio Lower Upper

117 100

119 4.0 73.7 110.5#

121 0.0 22.8 34.2#





#43

Isopropyl Acetate

Concen: 13.274 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#04

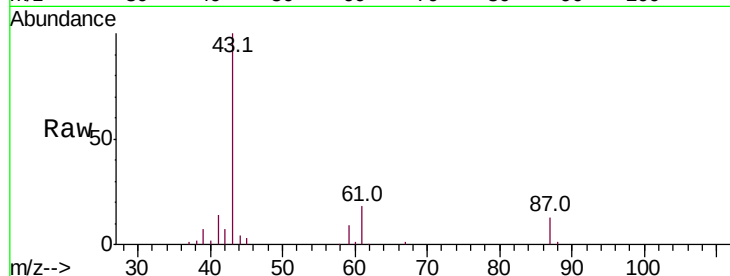
Tot Ion: 43 Resp: 102240

Ion Ratio Lower Upper

43 100

61 17.4 19.1 28.7#

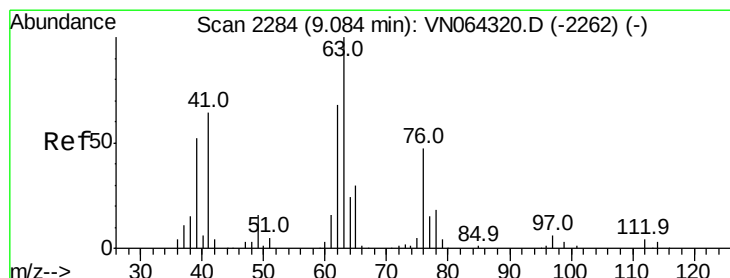
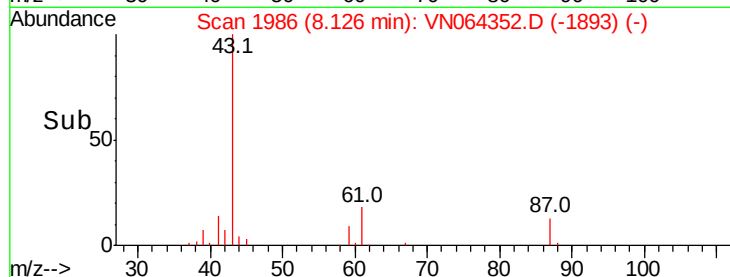
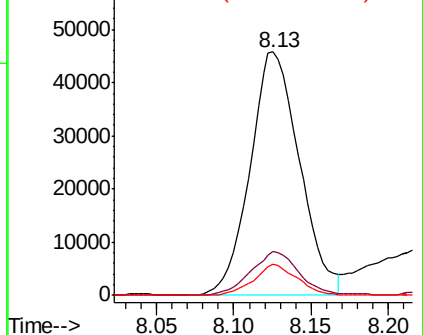
87 11.0 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.501 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN064352.D

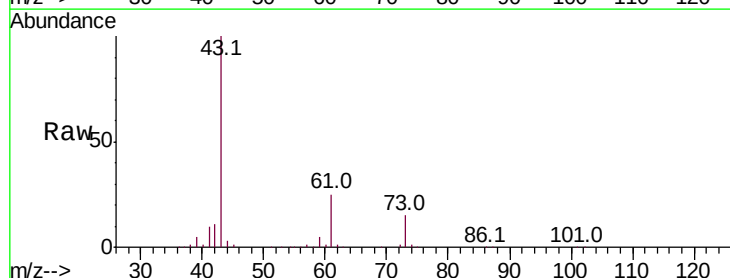
Acq: 28 Oct 2020 15:10

Tgt Ion: 63 Resp: 1666

Ion Ratio Lower Upper

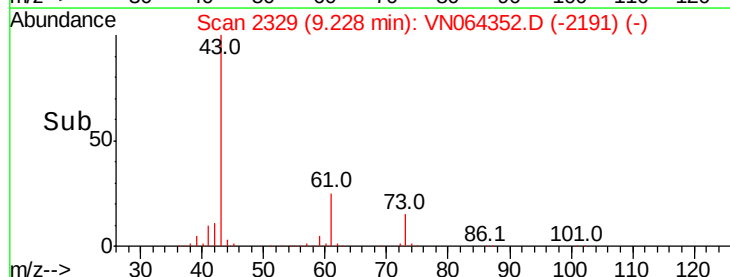
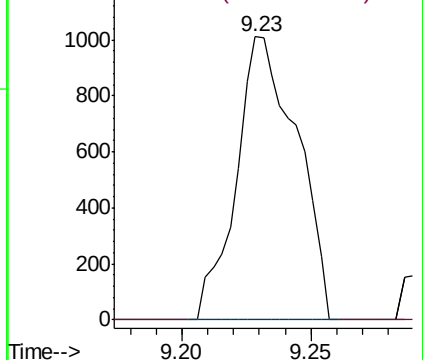
63 100

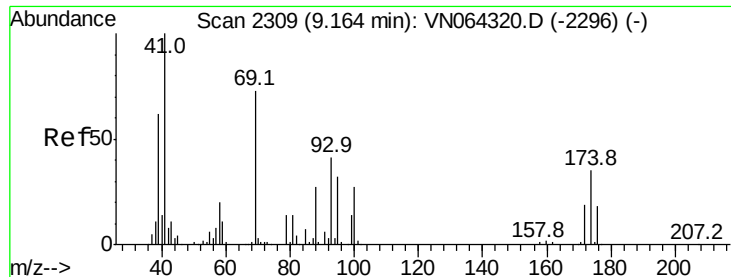
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

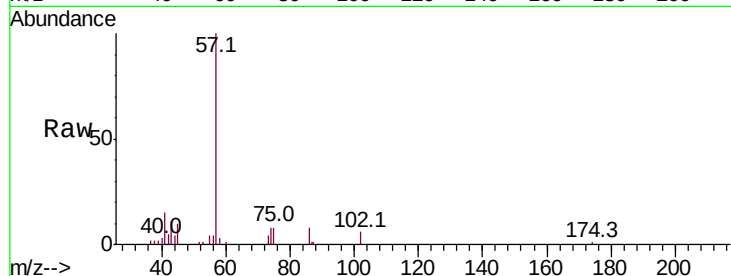




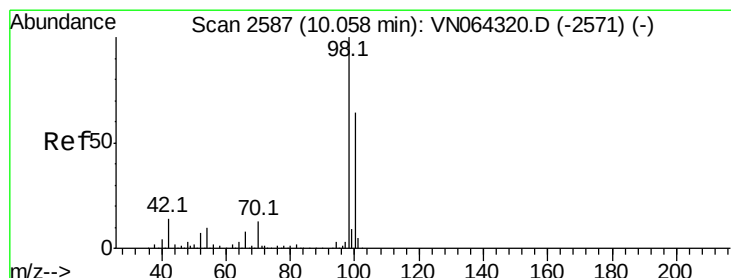
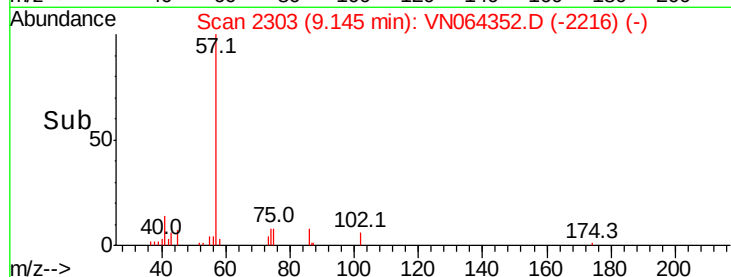
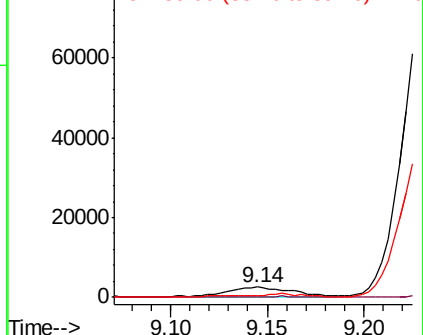
#48
Methvl methacrylate
Concen: 1.270 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064352.D
Acq: 28 Oct 2020 15:10

Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#04

Tot Ion: 41 Resp: 5046
Ion Ratio Lower Upper
41 100
69 2.8 59.1 88.7#
39 0.0 51.3 76.9#

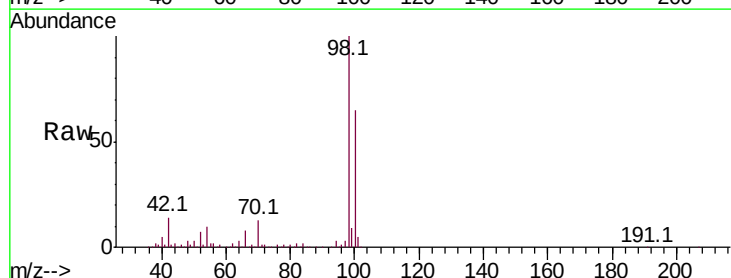


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

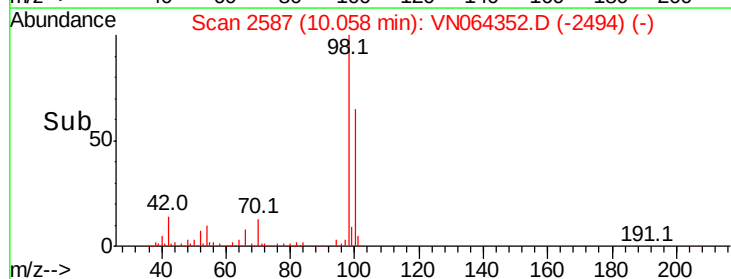
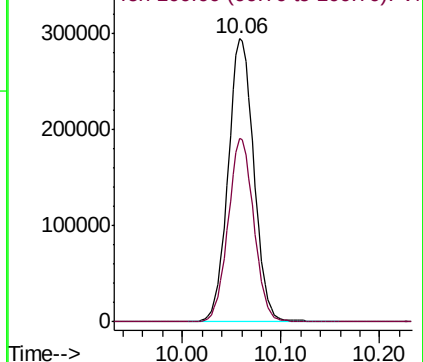


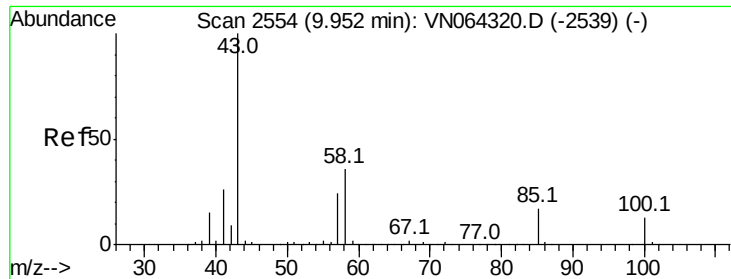
#50
Toluene-d8
Concen: 49.369 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN064352.D
Acq: 28 Oct 2020 15:10

Tgt Ion: 98 Resp: 538257
Ion Ratio Lower Upper
98 100
100 64.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.155 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

Instrument :

MSVOA_N

ClientSampleId :

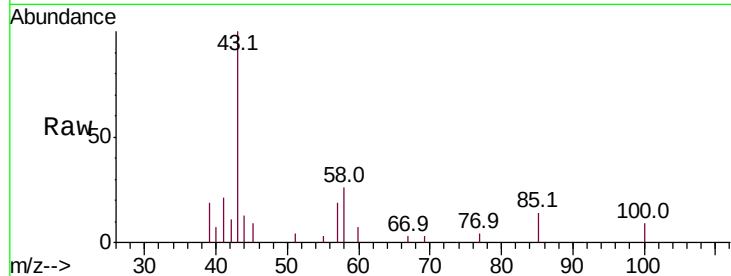
PB132665ZHE#04

Tot Ion: 43 Resp: 9650

Ion Ratio Lower Upper

43 100

58 35.9 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VN064320.D (-2539) (-)

Ion 58.00 (57.70 to 58.70): VN064320.D (-2539) (-)

20000

15000

10000

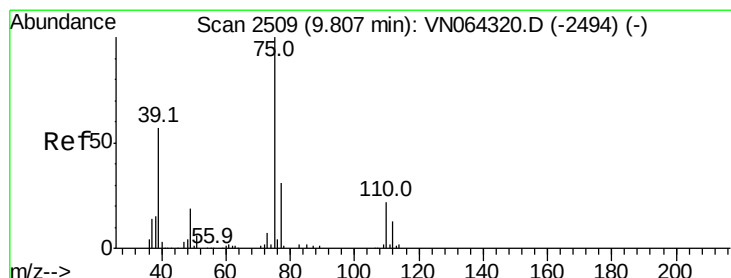
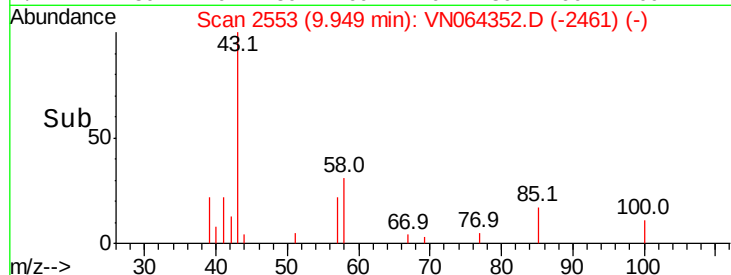
5000

0

9.90

9.95

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.957 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

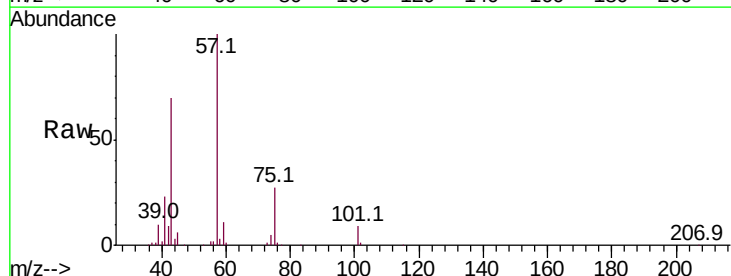
Tgt Ion: 75 Resp: 39033

Ion Ratio Lower Upper

75 100

77 0.7 25.0 37.4#

39 36.9 45.5 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VN064320.D (-2494) (-)

Ion 76.90 (76.60 to 77.60): VN064320.D (-2494) (-)

Ion 39.00 (38.70 to 39.70): VN064320.D (-2494) (-)

30000

25000

20000

15000

10000

5000

0

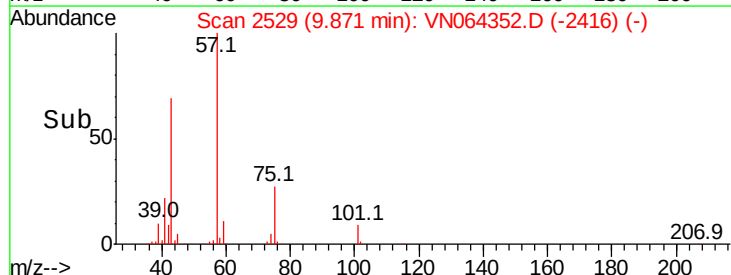
9.80

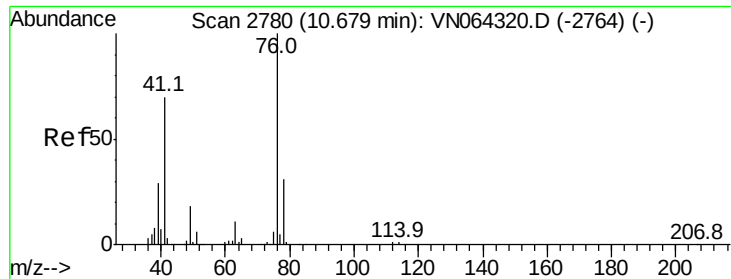
9.85

9.90

9.95

Time-->

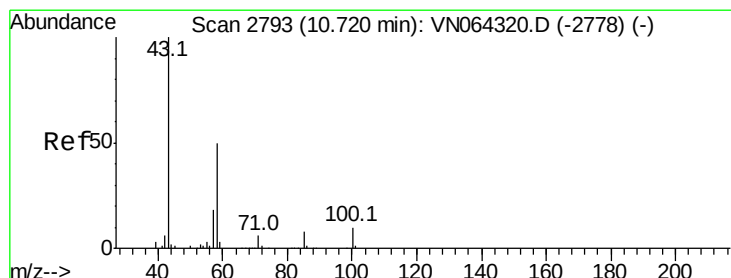
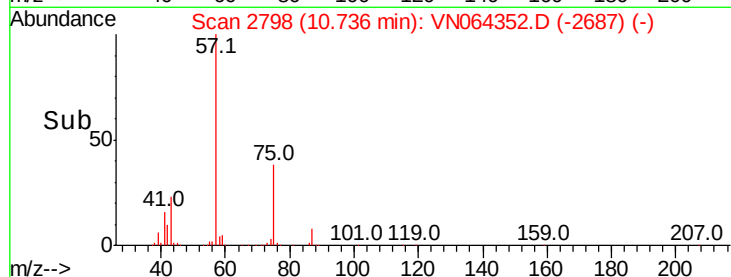
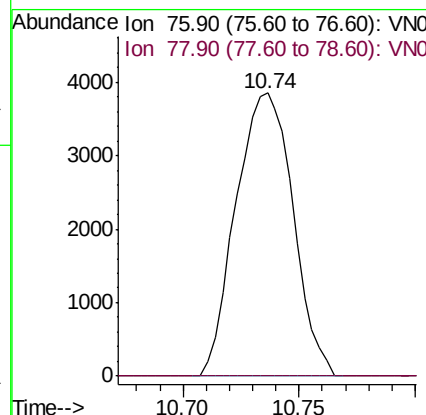
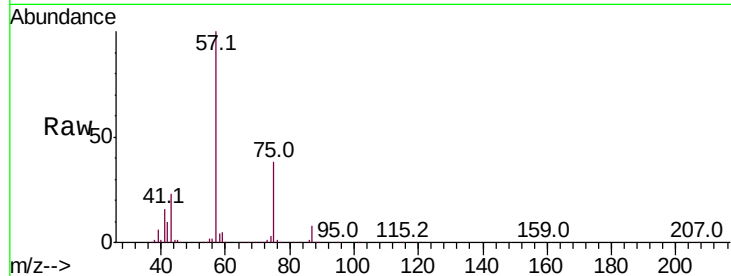




#57
 1,3-Dichloropropane
 Concen: 1.248 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064352.D
 Acq: 28 Oct 2020 15:10

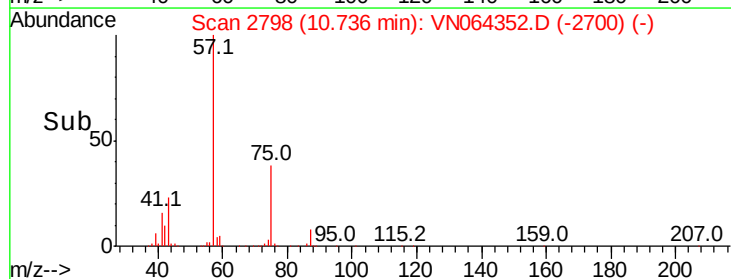
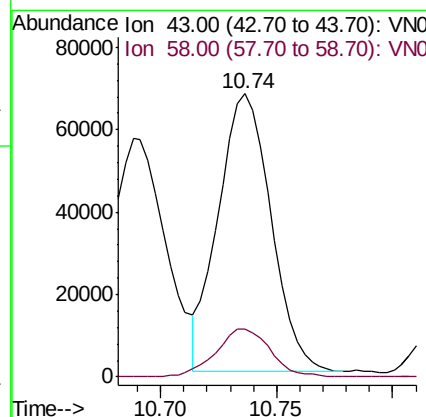
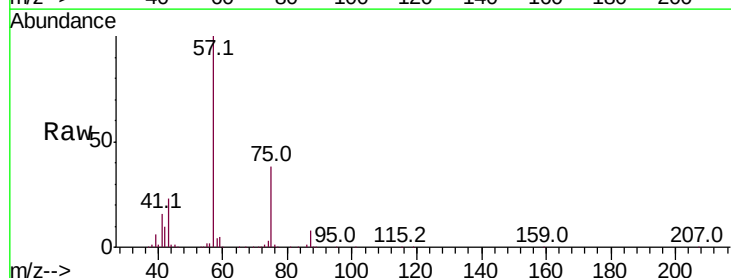
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#04

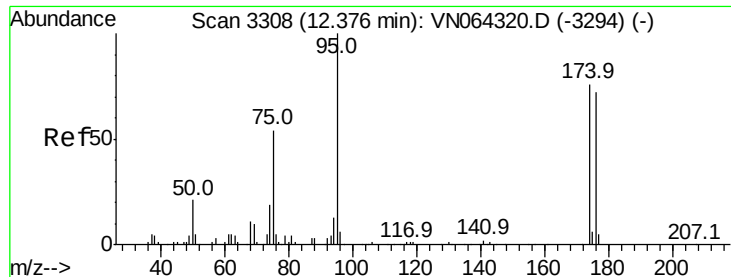
Tot Ion: 76 Resp: 6585
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 32.378 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064352.D
 Acq: 28 Oct 2020 15:10

Tgt Ion: 43 Resp: 106765
 Ion Ratio Lower Upper
 43 100
 58 18.0 25.0 75.0#





#62

4-Bromofluorobenzene

Concen: 54.889 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#04

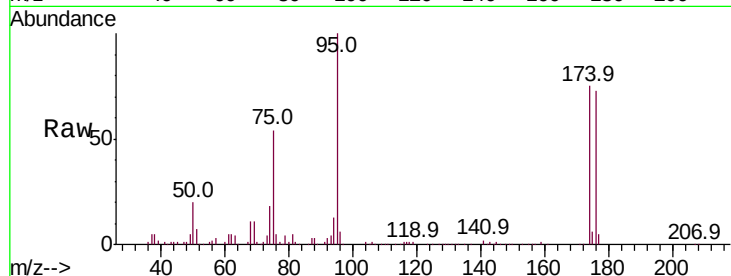
Tot Ion: 95 Resp: 233326

Ion Ratio Lower Upper

95 100

174 75.8 0.0 147.4

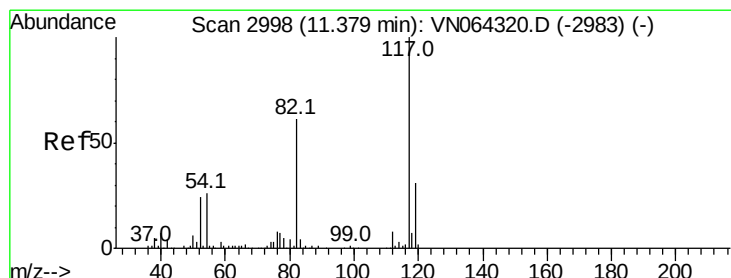
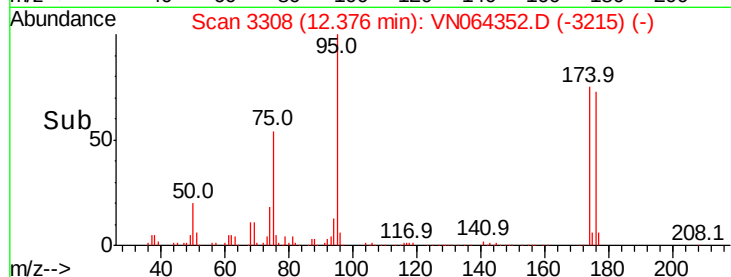
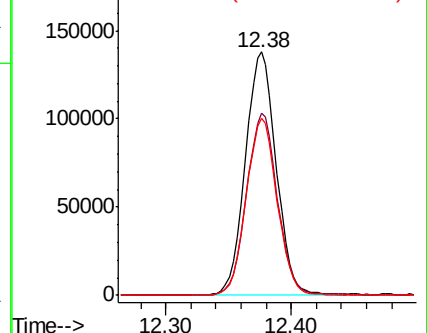
176 73.9 0.0 143.6



Abundance Ion 94.90 (94.60 to 95.60): VN064352.D (-2915) (-)

Ion 173.80 (173.50 to 174.50): VN064352.D (-2915) (-)

Ion 175.80 (175.50 to 176.50): VN064352.D (-2915) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

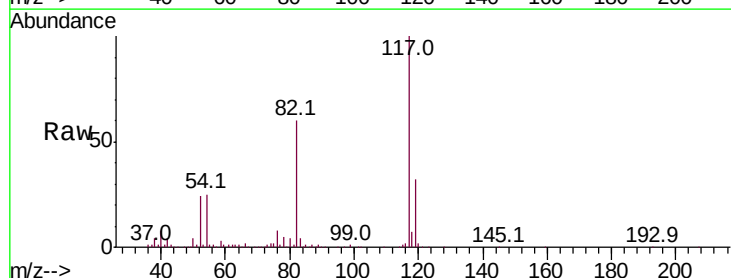
Tgt Ion: 117 Resp: 439339

Ion Ratio Lower Upper

117 100

82 59.7 48.8 73.2

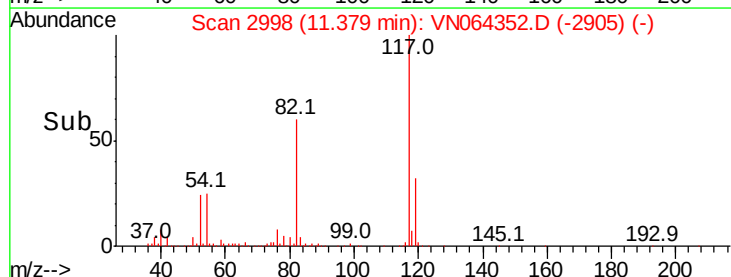
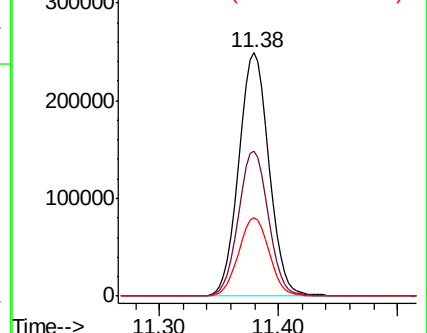
119 32.2 25.1 37.7

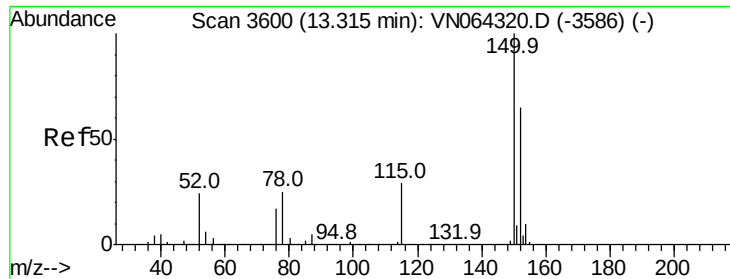


Abundance Ion 116.90 (116.60 to 117.60): VN064352.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN064352.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN064352.D (-2905) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#04

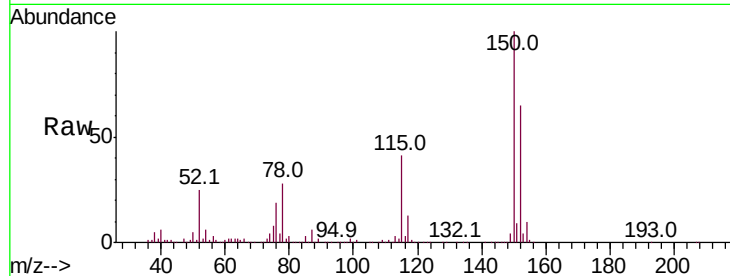
Tot Ion:152 Resp: 194005

Ion Ratio Lower Upper

152 100

115 63.5 31.5 94.5

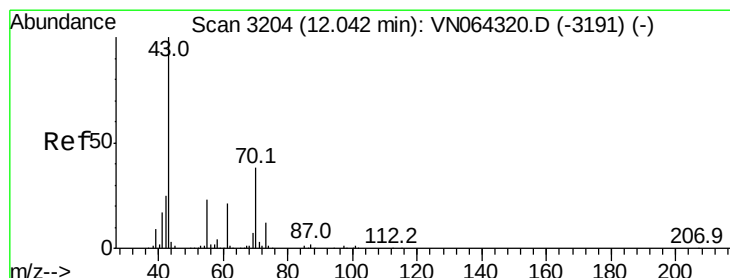
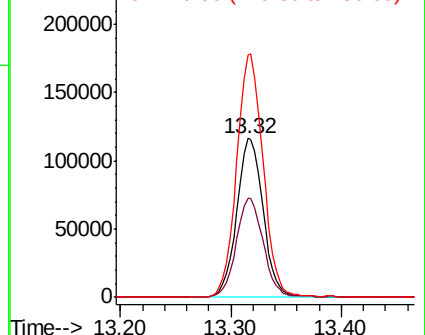
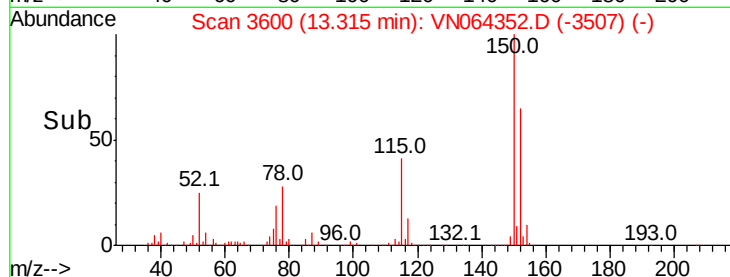
150 152.8 0.0 346.2



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-ethyl acetate

Concen: 1.135 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

Tgt Ion: 43 Resp: 7259

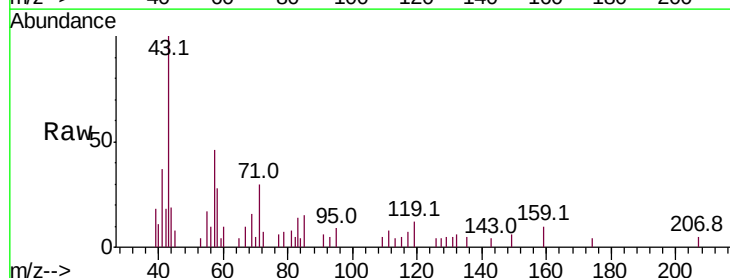
Ion Ratio Lower Upper

43 100

70 3.6 30.6 45.8#

55 1.8 18.2 27.4#

61 0.0 17.6 26.4#

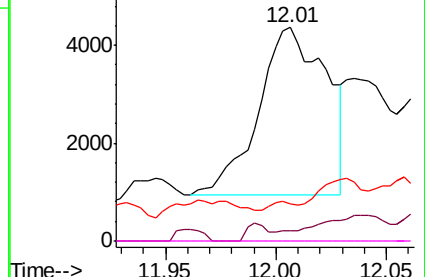
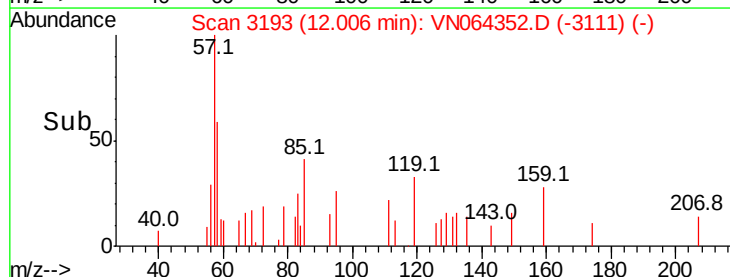


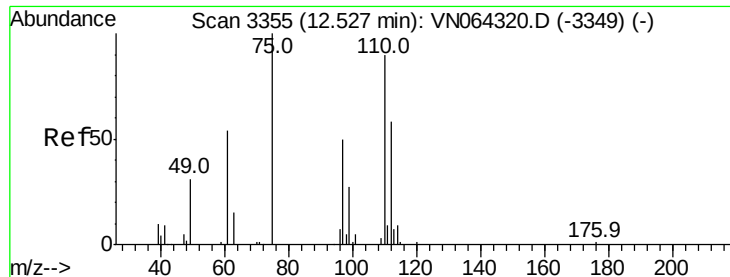
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 27.576 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

Instrument :

MSVOA_N

ClientSampleId :

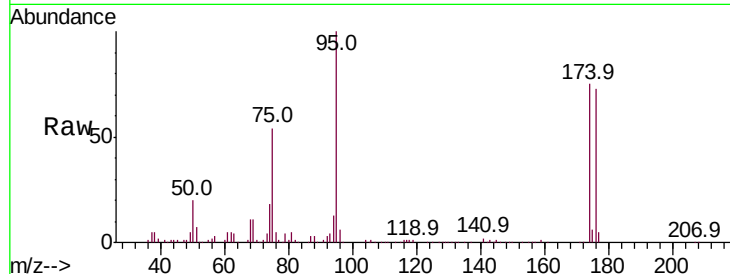
PB132665ZHE#04

Tot Ion: 75 Resp: 128116

Ion Ratio Lower Upper

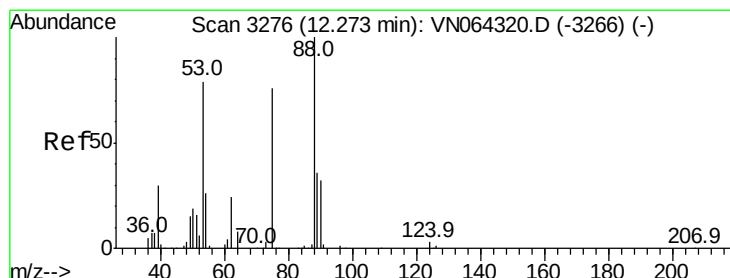
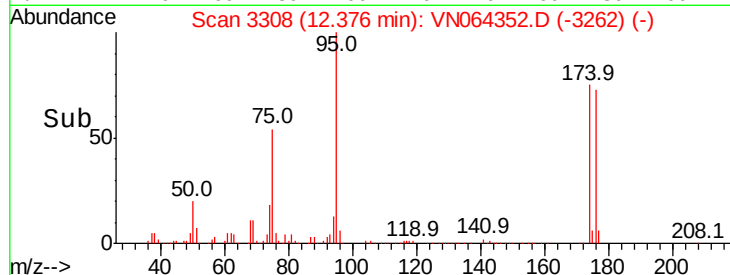
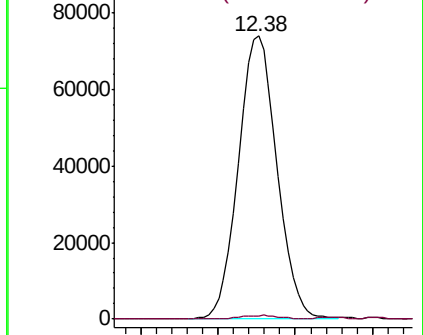
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 79.434 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

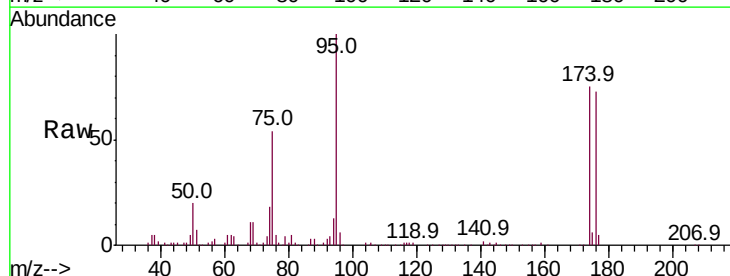
Tgt Ion: 75 Resp: 128116

Ion Ratio Lower Upper

75 100

53 0.2 81.8 122.8#

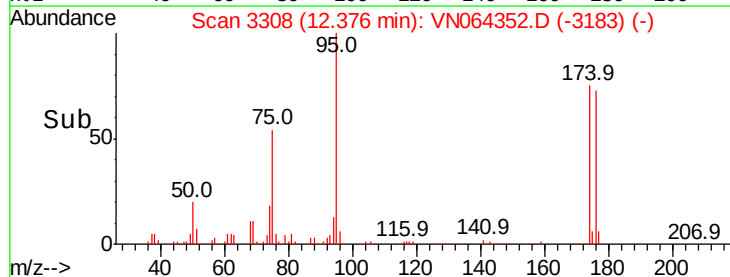
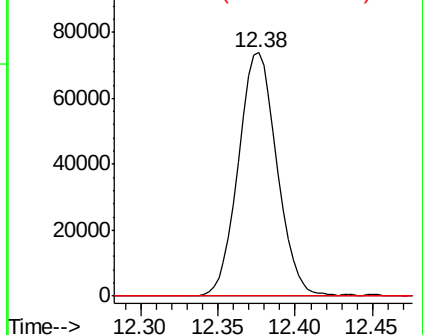
89 0.1 39.9 59.9#

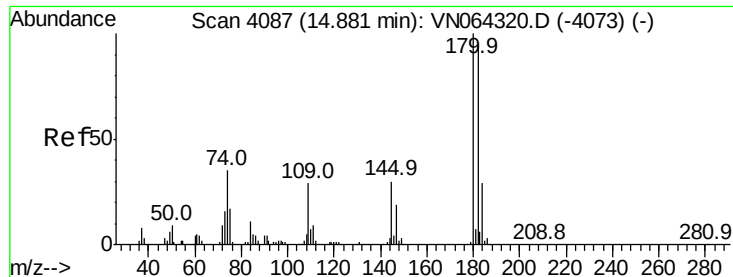


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#93

1,2,4-Trichlorobenzene

Concen: 2.036 ug/l

RT: 14.89 min Scan# 4089

Delta R.T. 0.01 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#04

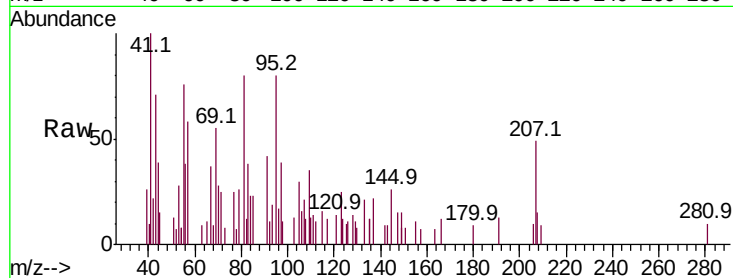
Tot Ion:180 Resp: 69

Ion Ratio Lower Upper

180 100

182 44.9 46.6 139.7#

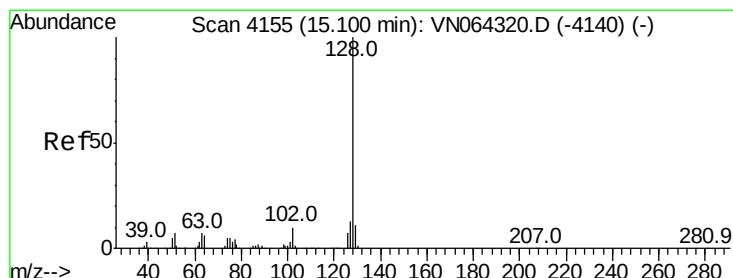
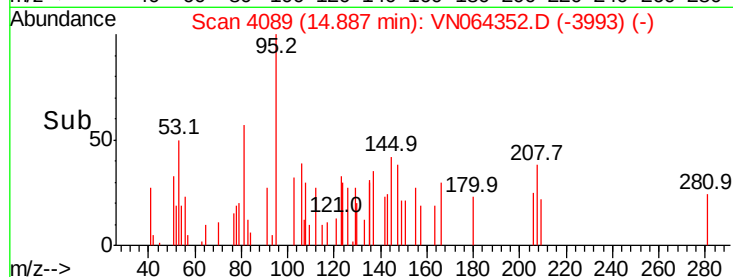
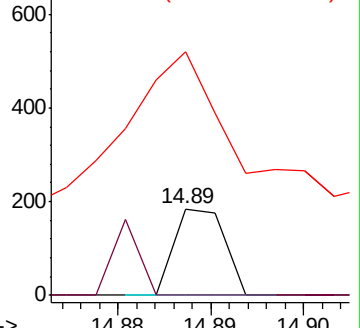
145 524.6 15.3 45.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 2.461 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN064352.D

Acq: 28 Oct 2020 15:10

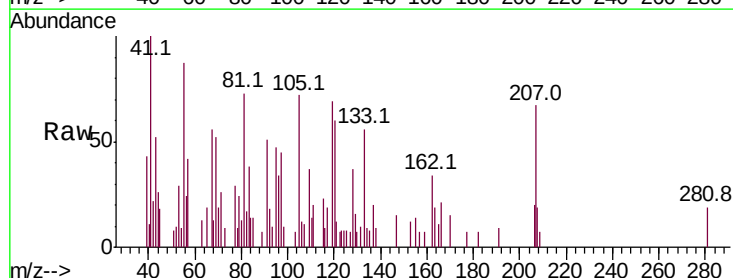
Tgt Ion:128 Resp: 787

Ion Ratio Lower Upper

128 100

127 34.2 10.4 15.6#

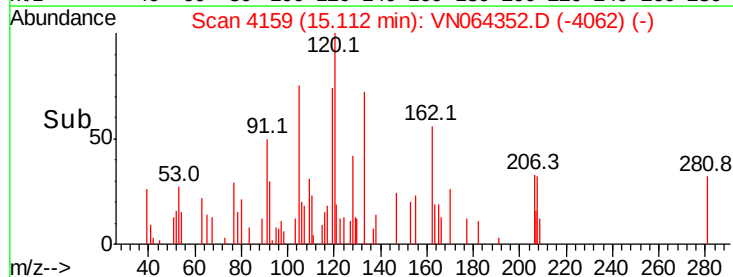
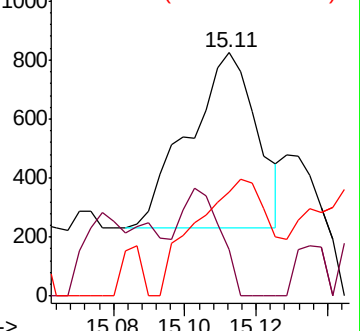
129 74.6 8.6 13.0#

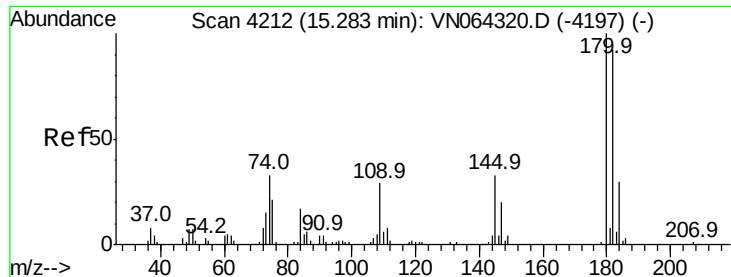


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.231 ug/l
 RT: 15.28 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN064352.D
 Acq: 28 Oct 2020 15:10

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#04

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.1	138.3#
145	596.0	16.2	48.5#

