

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120920\
 Data File : VN065024.D
 Acq On : 9 Dec 2020 16:38
 Operator : JC/MD
 Sample : PB133472ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#05

Quant Time: Dec 10 04:08:47 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	164401	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	318760	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	334824	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	140325	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	107764	56.38	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	112.76%
35) Dibromofluoromethane	7.55	113	98953	51.88	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	103.76%
50) Toluene-d8	10.06	98	403028	51.71	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	103.42%
62) 4-Bromofluorobenzene	12.38	95	149660	53.66	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	107.32%

Target Compounds

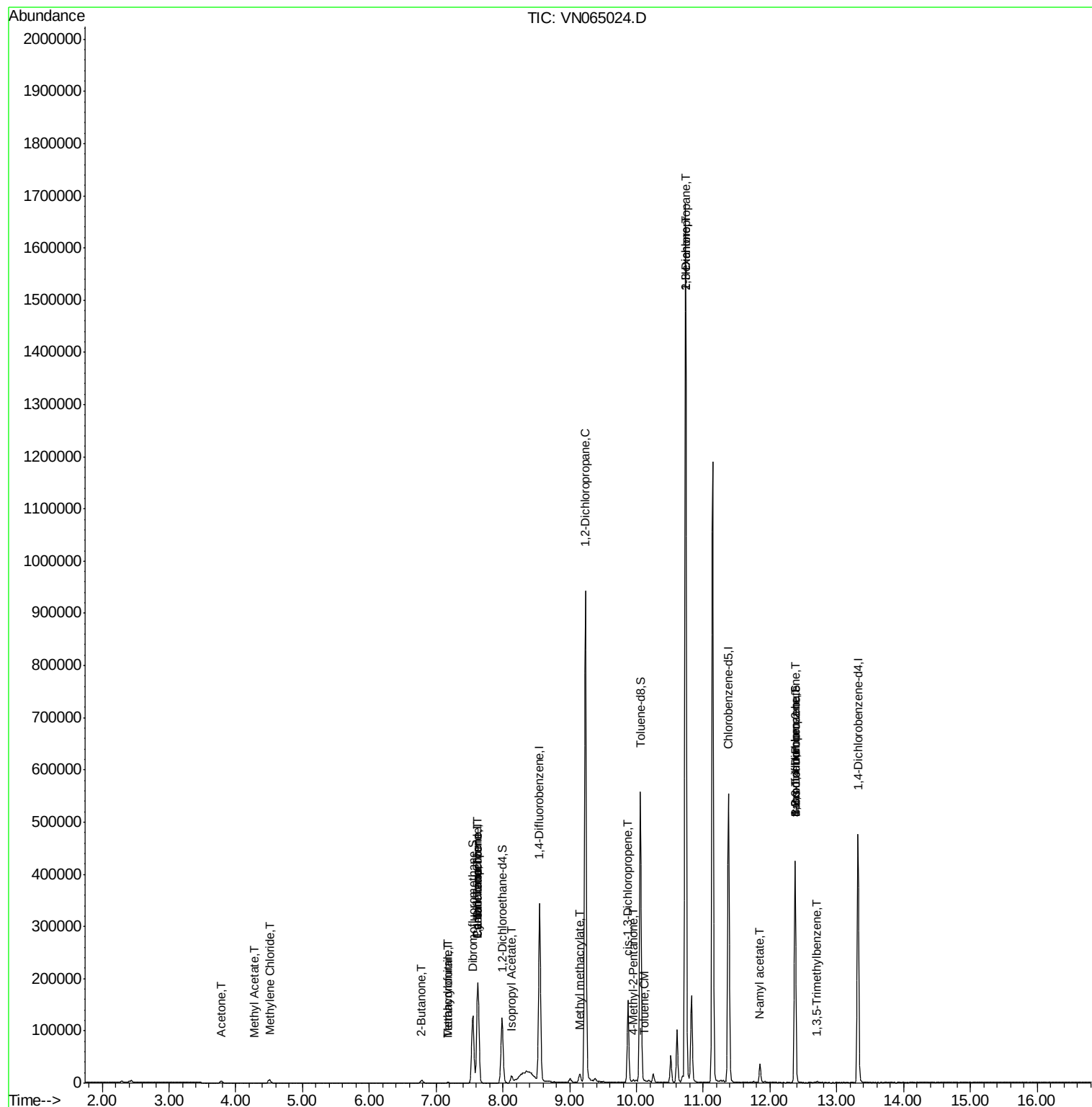
					Qvalue	
16) Acetone	3.78	43	5772	9.187	ug/l	94
18) Methyl Acetate	4.28	43	800	0.424	ug/l #	50
20) Methylene Chloride	4.51	84	5361	2.723	ug/l #	91
25) 2-Butanone	6.78	43	1128	1.108	ug/l	92
29) Tetrahydrofuran	7.18	42	928	1.320	ug/l #	45
31) Cyclohexane	7.63	56	2781	1.044	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11339	3.838	ug/l #	49
38) Carbon Tetrachloride	7.63	117	15133	4.923	ug/l #	16
41) Methacrylonitrile	7.17	41	695	0.529	ug/l #	24
43) Isopropyl Acetate	8.13	43	18893	4.125	ug/l #	88
45) 1,2-Dichloropropane	9.24	63	1025	0.437	ug/l #	43
48) Methyl methacrylate	9.14	41	4370	1.997	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	3782	1.376	ug/l	96
52) Toluene	10.13	92	1451	0.260	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	28440	7.558	ug/l #	63
57) 1,3-Dichloropropane	10.73	76	17636	4.663	ug/l #	42
59) 2-Hexanone	10.74	43	230014	116.246	ug/l #	50
71) Bromoform	12.37	173	601	0.285	ug/l #	1
74) N-amyl acetate	11.85	43	11059	2.879	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	71099	23.527	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	1985	0.245	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.38	75	71099	64.482	ug/l #	15

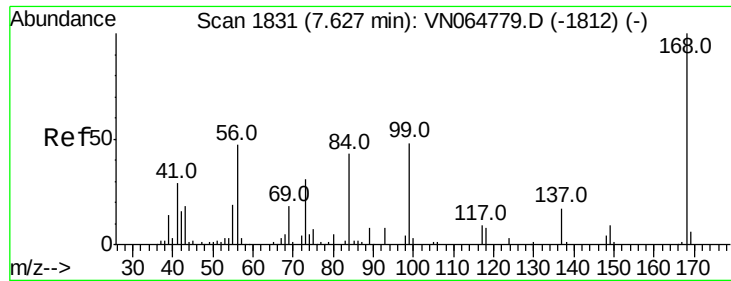
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120920\
Data File : VN065024.D
Acq On : 9 Dec 2020 16:38
Operator : JC/MD
Sample : PB133472ZHE#05
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#05

Quant Time: Dec 10 04:08:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

Instrument :

MSVOA_N

ClientSampleId :

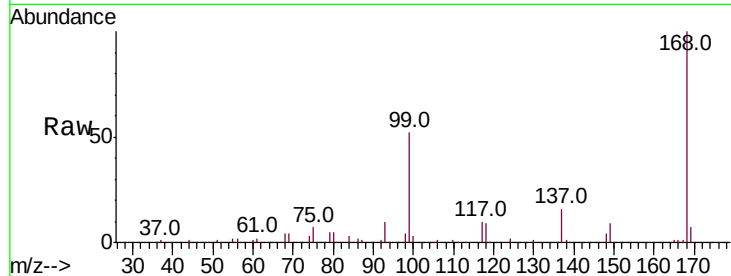
PB133472ZHE#05

Tot Ion:168 Resp: 164401

Ion Ratio Lower Upper

168 100

99 52.4 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

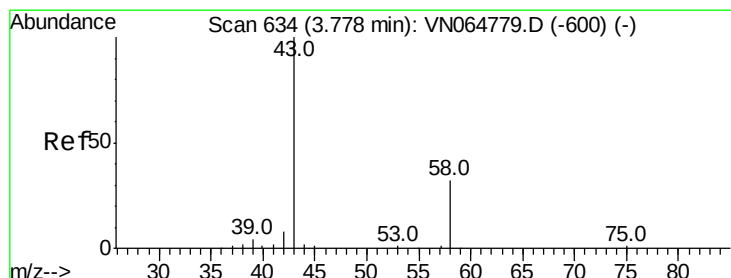
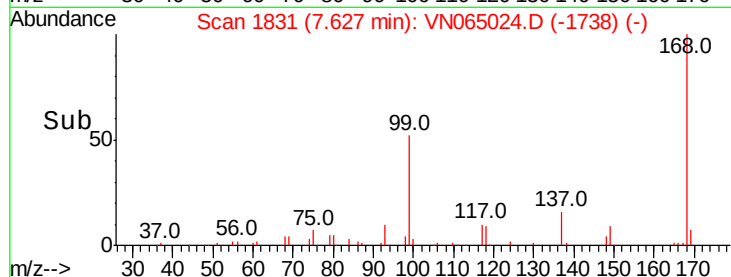
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 9.187 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN065024.D

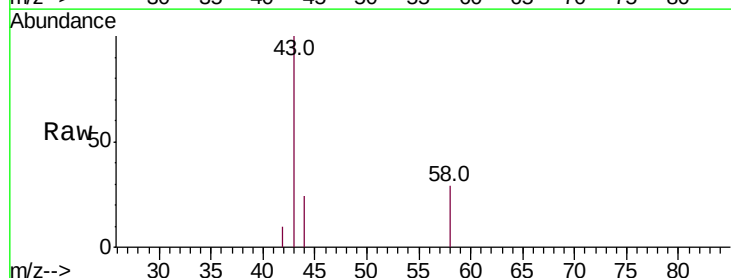
Acq: 9 Dec 2020 16:38

Tgt Ion: 43 Resp: 5772

Ion Ratio Lower Upper

43 100

58 28.8 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

2000

1500

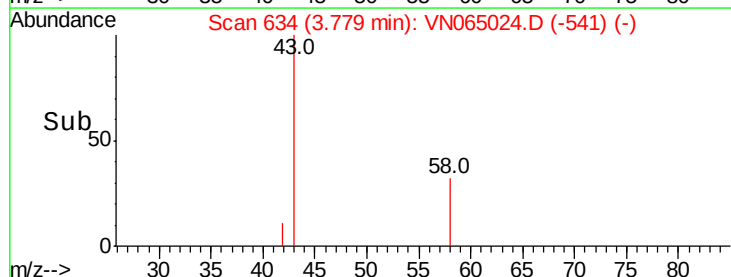
1000

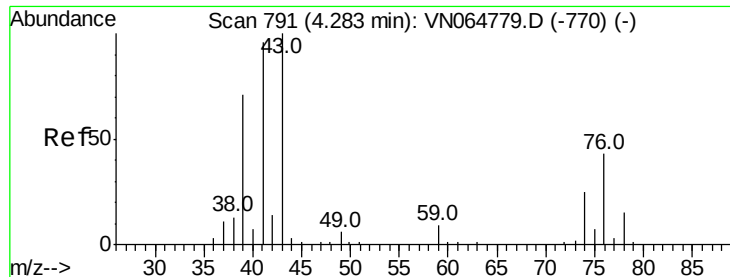
500

0

3.70 3.75 3.80 3.85

Time-->

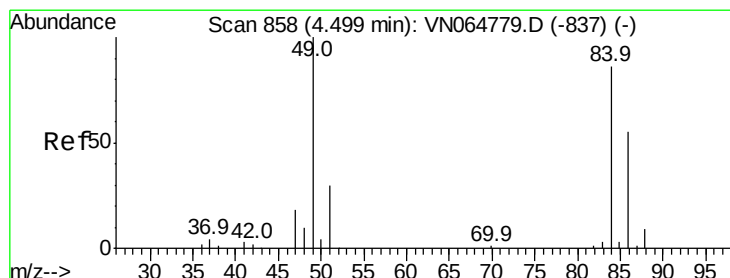
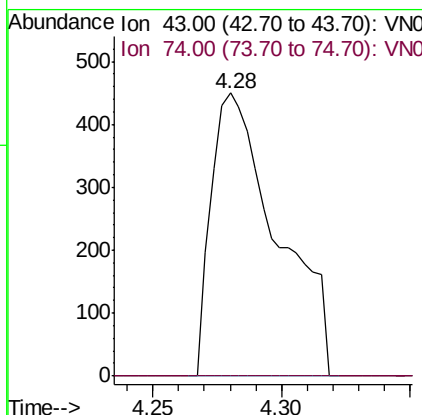
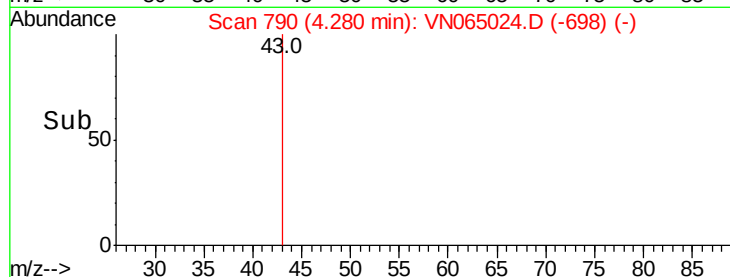
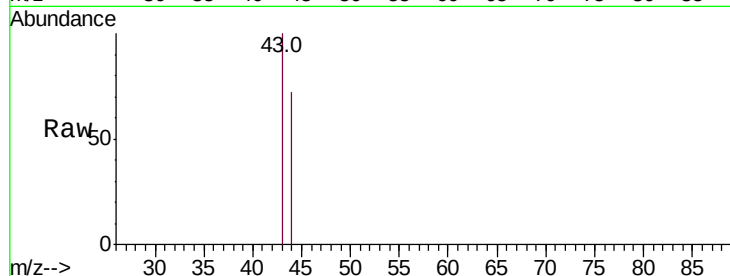




#18
Methyl Acetate
Concen: 0.424 ug/l
RT: 4.28 min Scan# 790
Delta R.T. -0.00 min
Lab File: VN065024.D
Acq: 9 Dec 2020 16:38

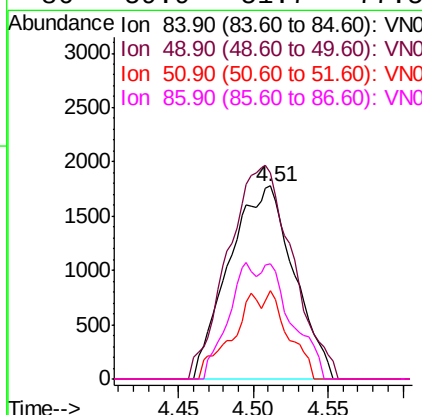
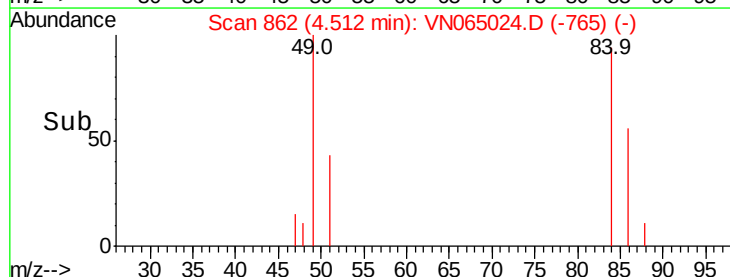
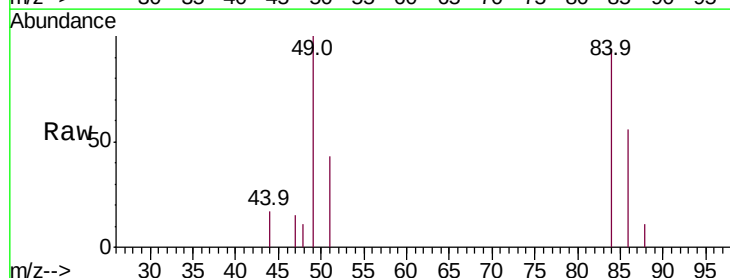
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#05

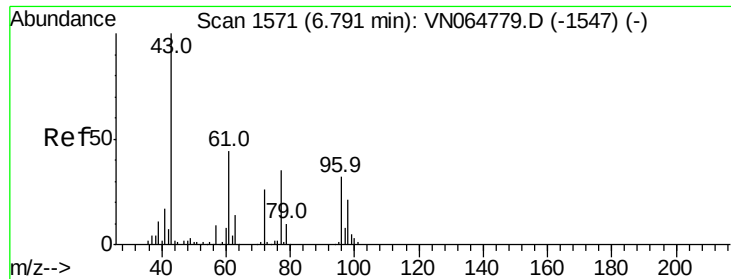
Tot Ion: 43 Resp: 800
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 2.723 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN065024.D
Acq: 9 Dec 2020 16:38

Tgt Ion: 84 Resp: 5361
Ion Ratio Lower Upper
84 100
49 106.8 93.4 140.0
51 45.5 28.2 42.4#
86 59.9 51.7 77.5





#25

2-Butanone

Concen: 1.108 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

Instrument :

MSVOA_N

ClientSampleId :

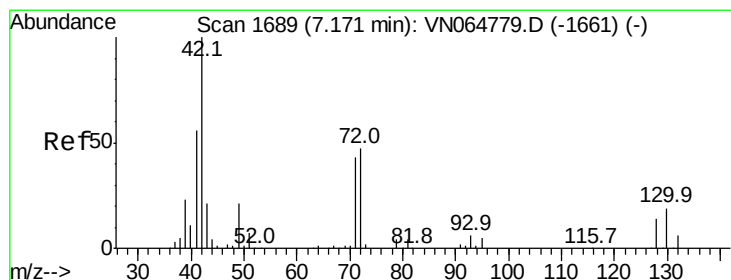
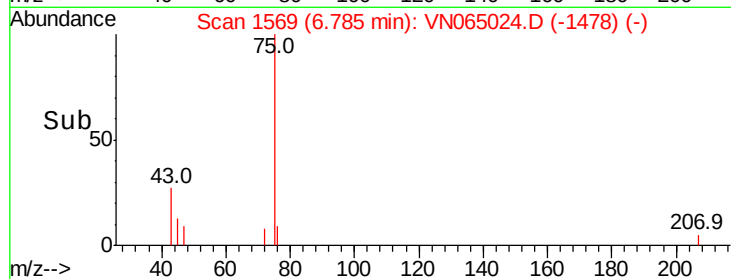
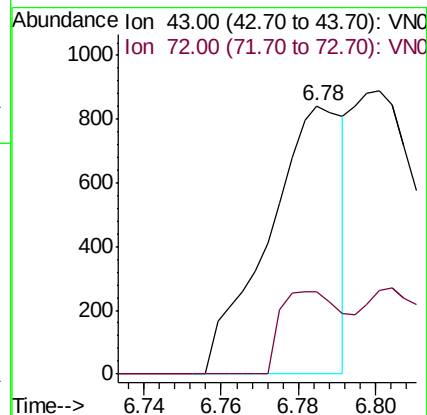
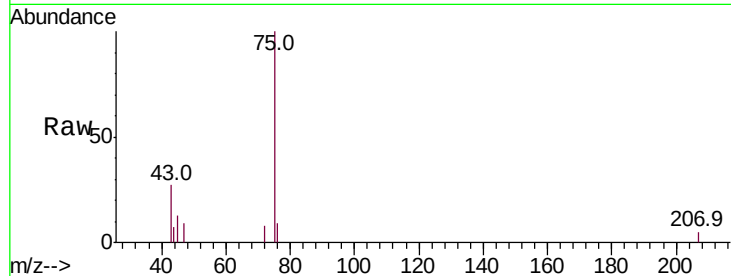
PB133472ZHE#05

Tot Ion: 43 Resp: 1128

Ion Ratio Lower Upper

43 100

72 30.5 21.0 31.6



#29

Tetrahydrofuran

Concen: 1.320 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.01 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

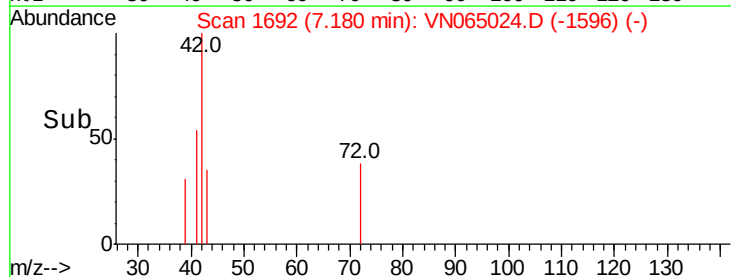
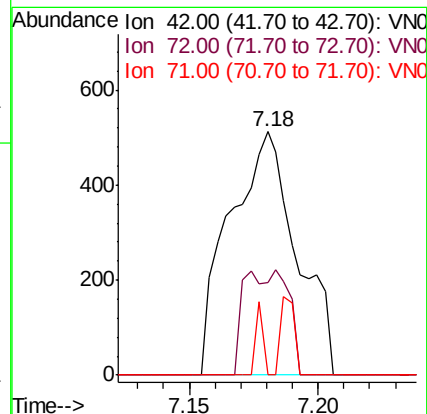
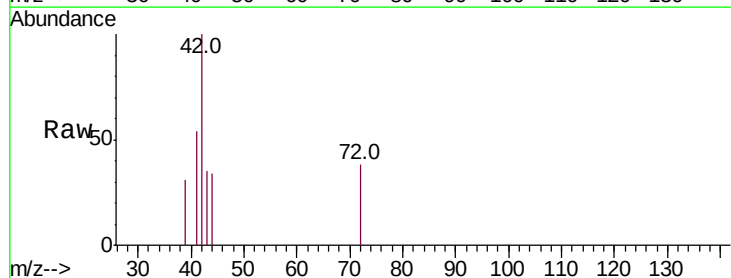
Tgt Ion: 42 Resp: 928

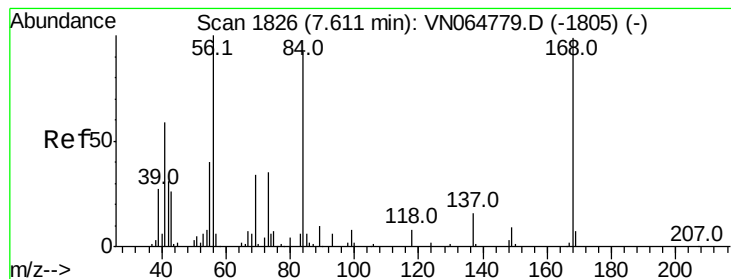
Ion Ratio Lower Upper

42 100

72 12.7 36.6 54.8#

71 3.2 33.6 50.4#





#31

Cyclohexane

Concen: 1.044 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#05

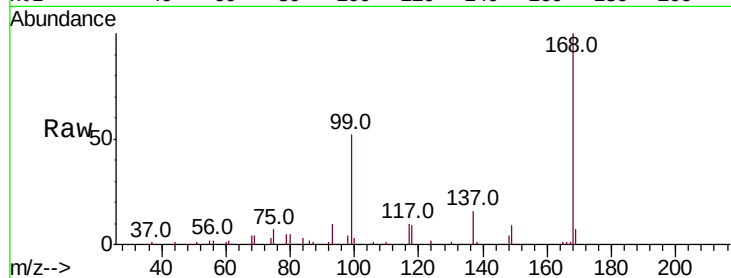
Tot Ion: 56 Resp: 2781

Ion Ratio Lower Upper

56 100

69 201.1 27.5 41.3#

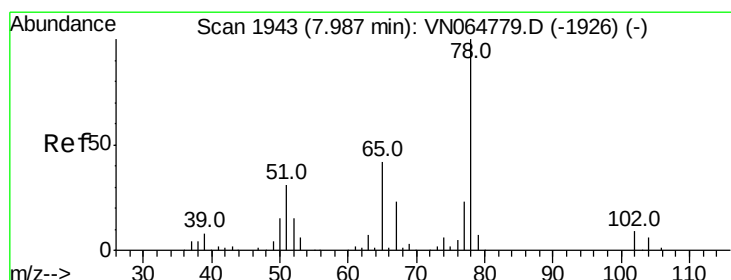
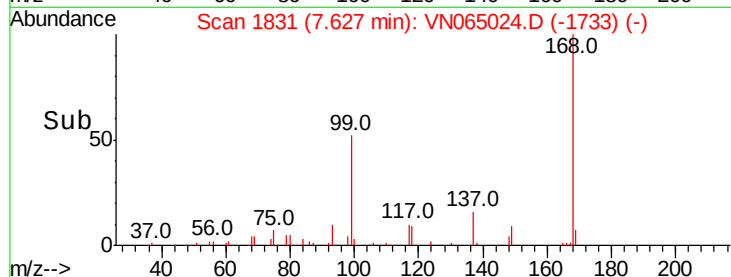
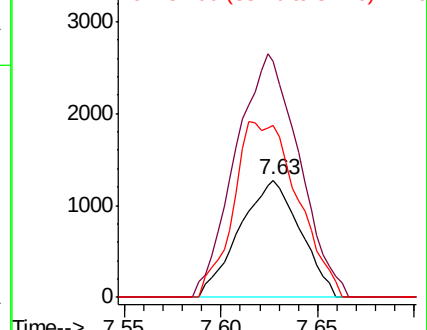
84 146.9 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 56.383 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065024.D

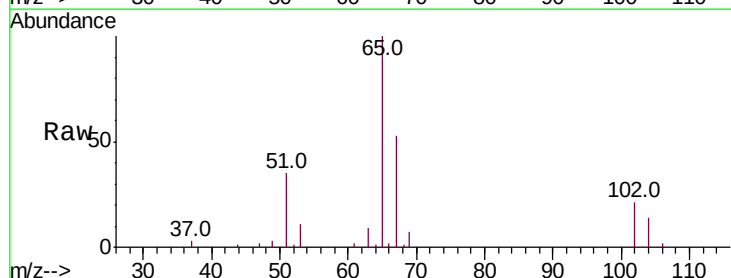
Acq: 9 Dec 2020 16:38

Tgt Ion: 65 Resp: 107764

Ion Ratio Lower Upper

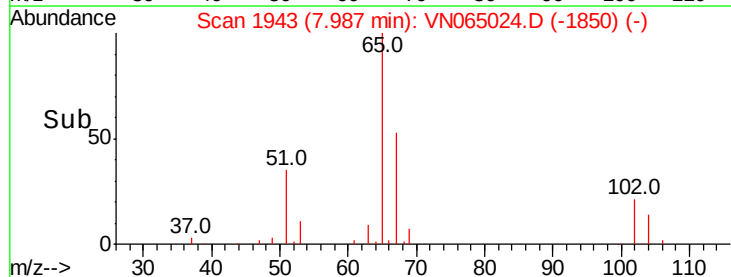
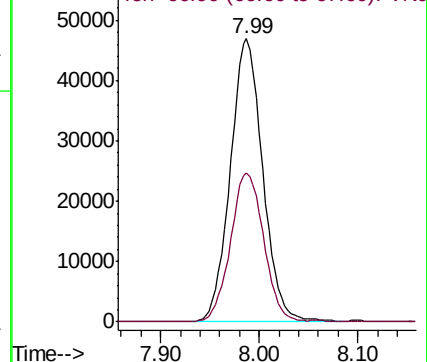
65 100

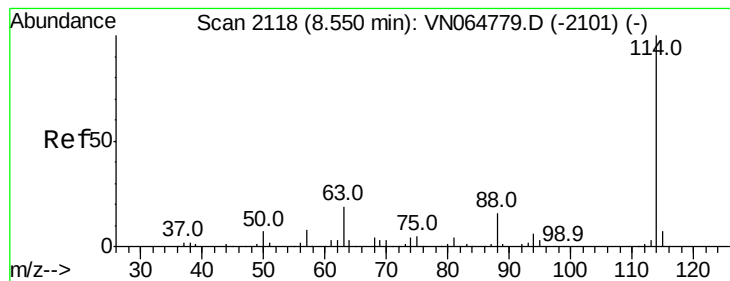
67 53.7 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#05

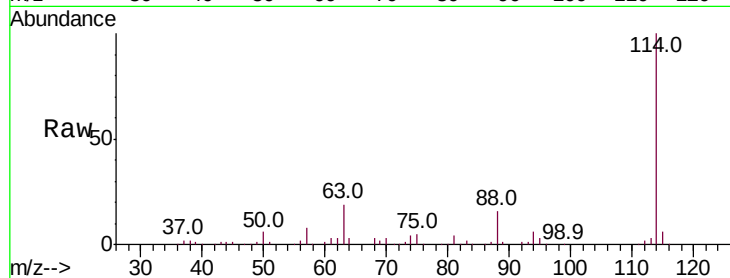
Tot Ion:114 Resp: 318760

Ion Ratio Lower Upper

114 100

63 18.6 0.0 38.6

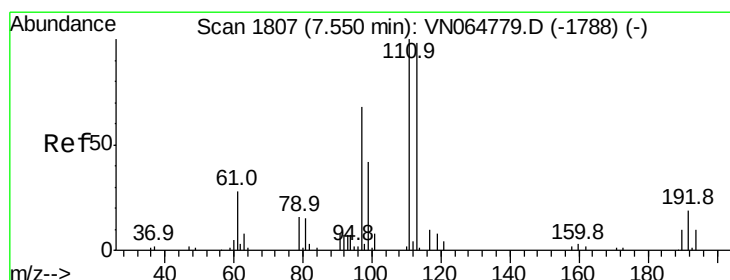
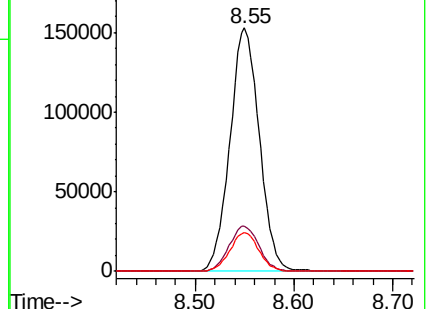
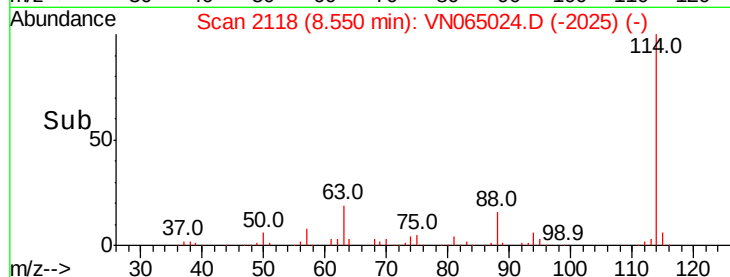
88 16.0 0.0 32.6



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: 51.880 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

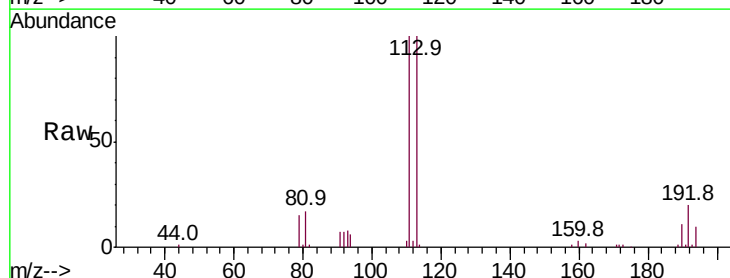
Tgt Ion:113 Resp: 98953

Ion Ratio Lower Upper

113 100

111 102.1 81.6 122.4

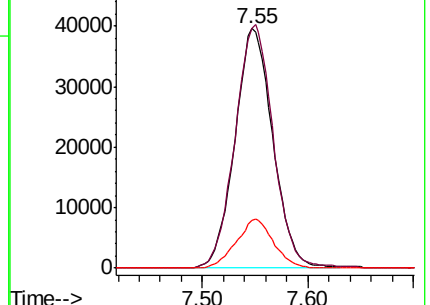
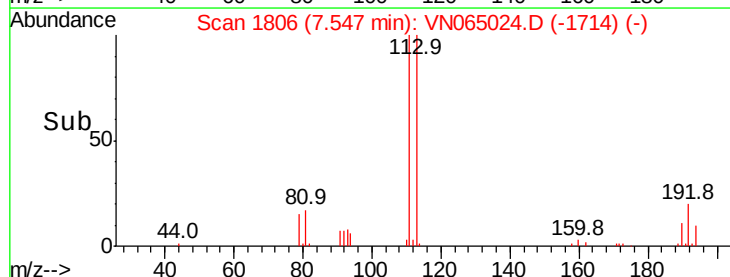
192 20.0 16.2 24.2

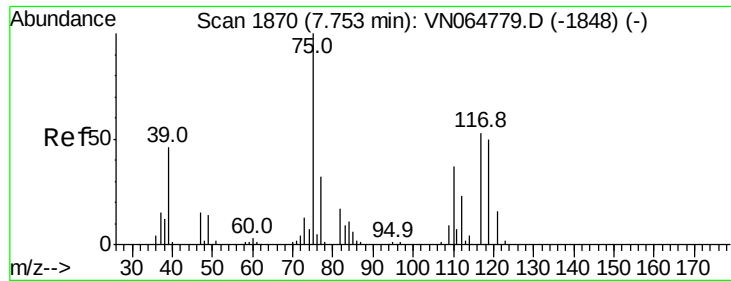


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.838 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#05

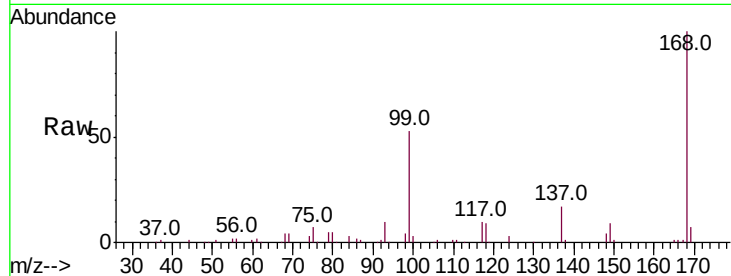
Tot Ion: 75 Resp: 11339

Ion Ratio Lower Upper

75 100

110 8.5 17.8 53.3#

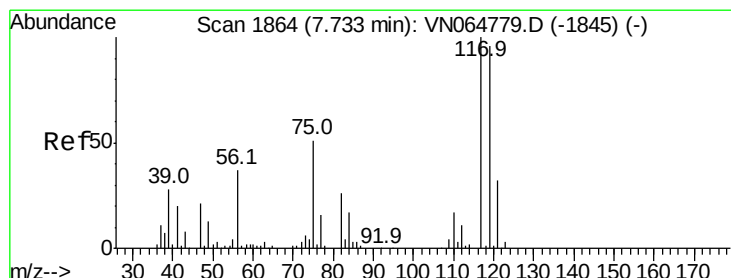
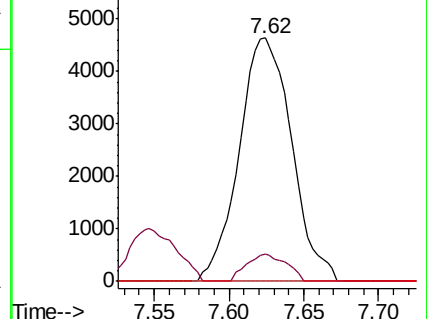
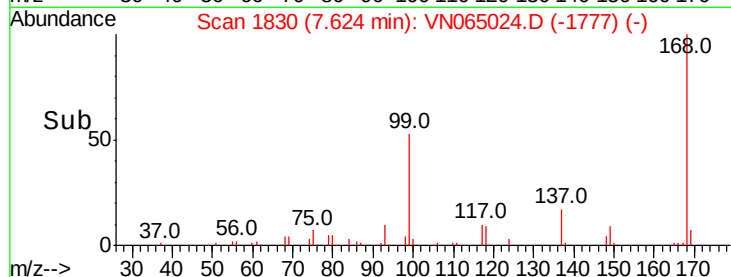
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 4.923 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

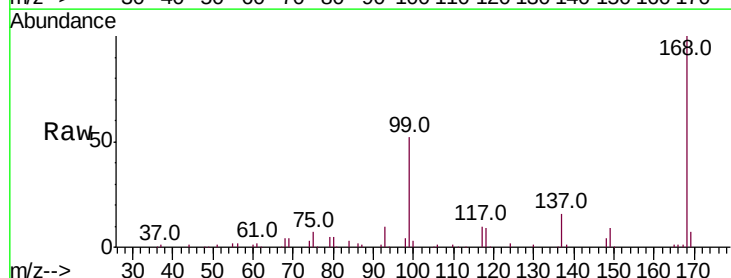
Tgt Ion: 117 Resp: 15133

Ion Ratio Lower Upper

117 100

119 5.0 76.7 115.1#

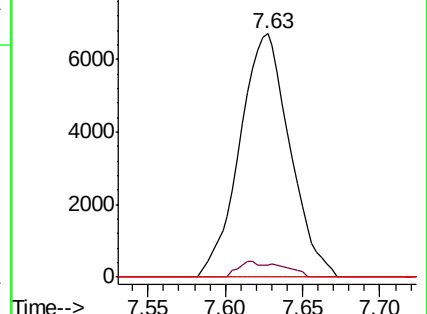
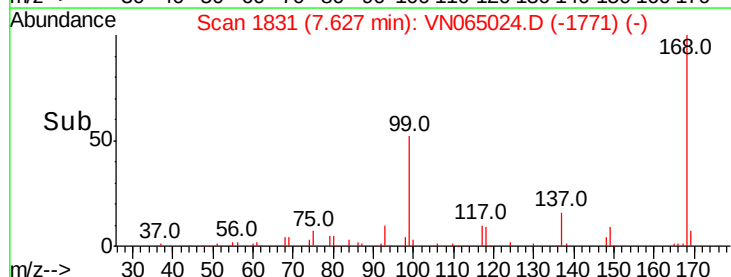
121 0.0 25.4 38.2#

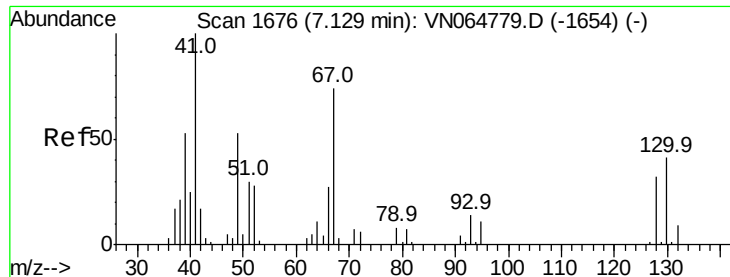


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

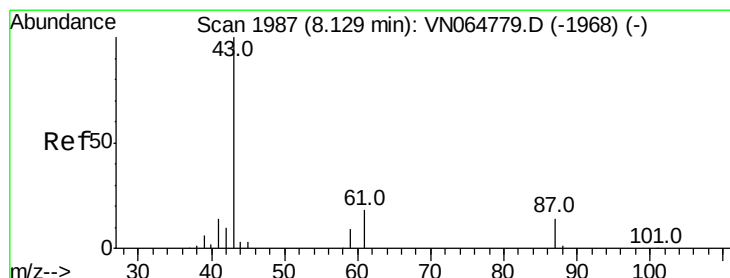
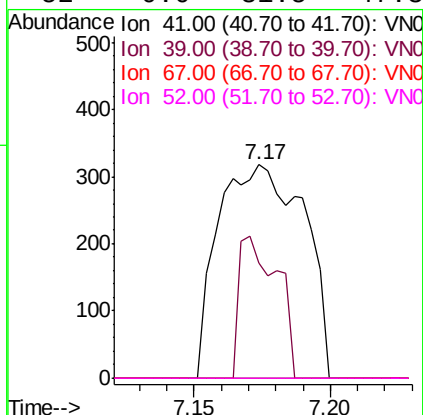
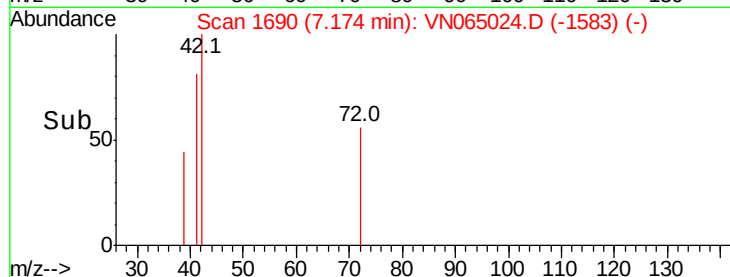
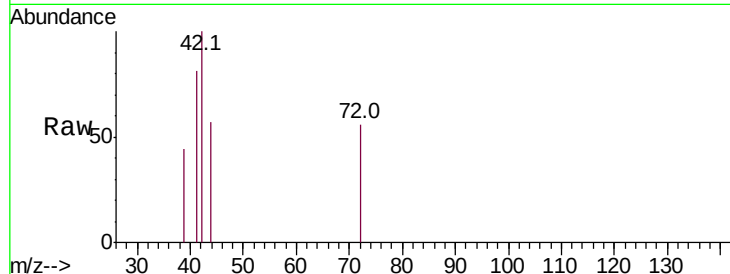




#41
Methacrylonitrile
Concen: 0.529 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.05 min
Lab File: VN065024.D
Acq: 9 Dec 2020 16:38

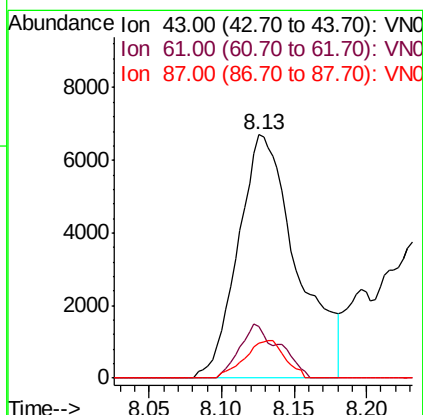
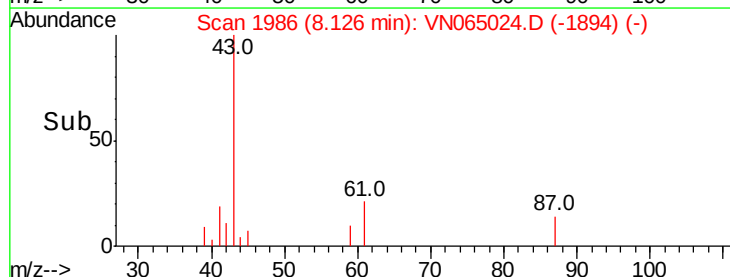
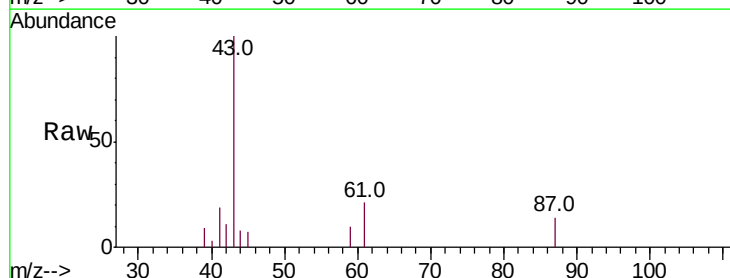
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#05

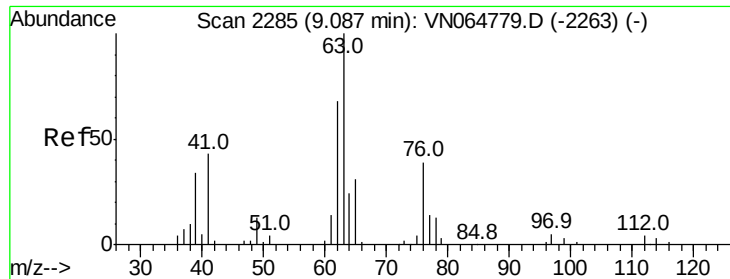
Tot Ion: 41 Resp: 695
Ion Ratio Lower Upper
41 100
39 29.2 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



#43
Isopropyl Acetate
Concen: 4.125 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN065024.D
Acq: 9 Dec 2020 16:38

Tgt Ion: 43 Resp: 18893
Ion Ratio Lower Upper
43 100
61 15.1 17.2 25.8#
87 10.5 11.4 17.0#

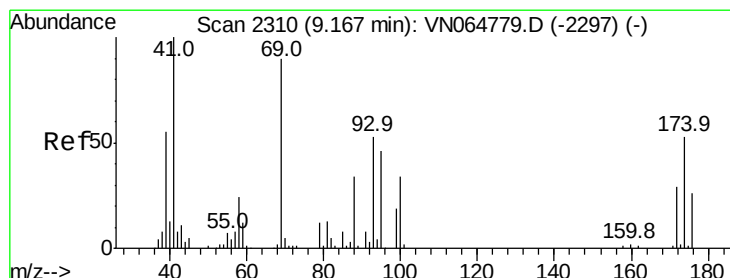
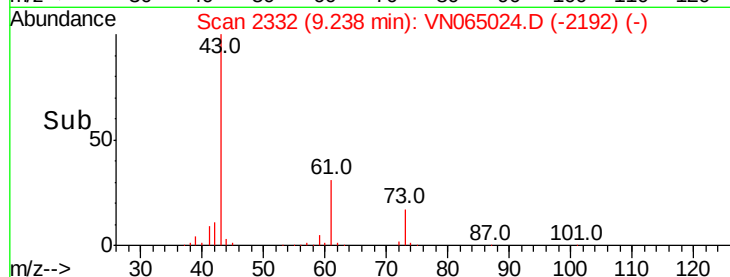
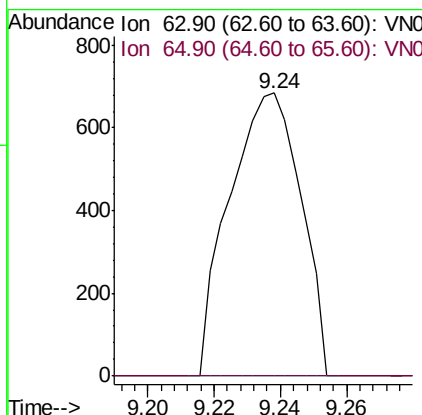
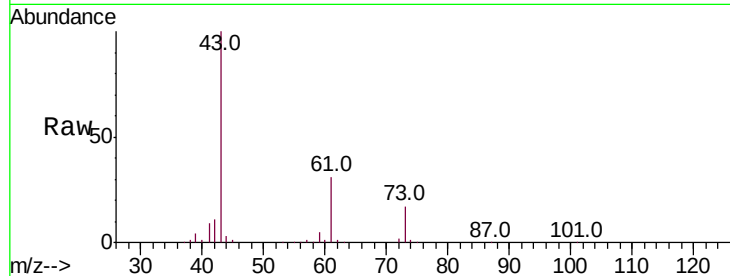




#45
 1,2-Dichloropropane
 Concen: 0.437 ug/l
 RT: 9.24 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN065024.D
 Acq: 9 Dec 2020 16:38

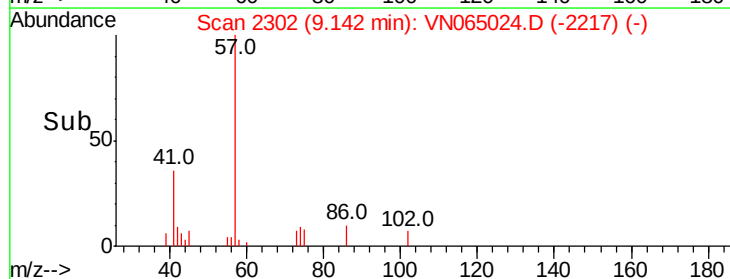
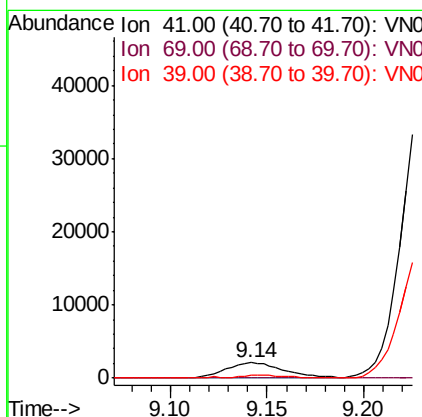
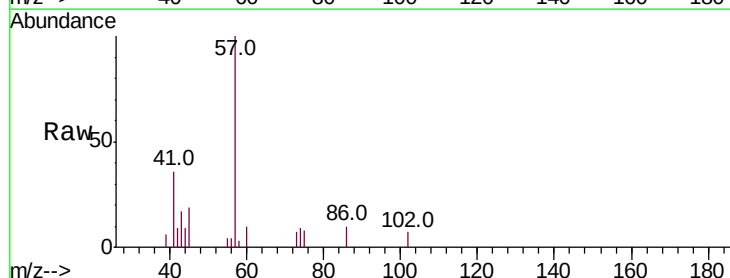
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#05

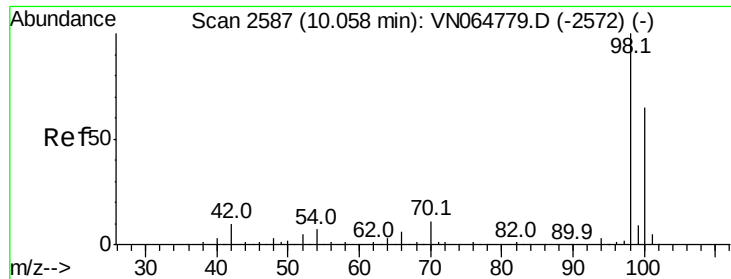
Tot Ion: 63 Resp: 1025
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.997 ug/l
 RT: 9.14 min Scan# 2302
 Delta R.T. -0.03 min
 Lab File: VN065024.D
 Acq: 9 Dec 2020 16:38

Tgt Ion: 41 Resp: 4370
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 51.715 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

Instrument :

MSVOA_N

ClientSampleId :

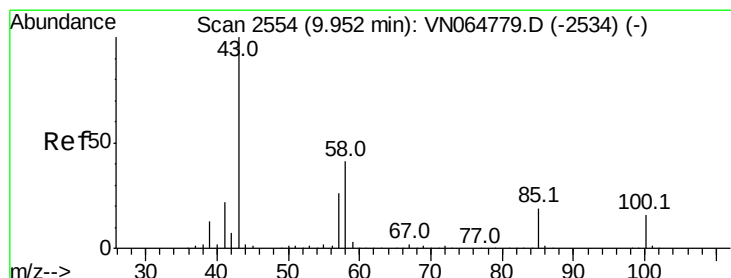
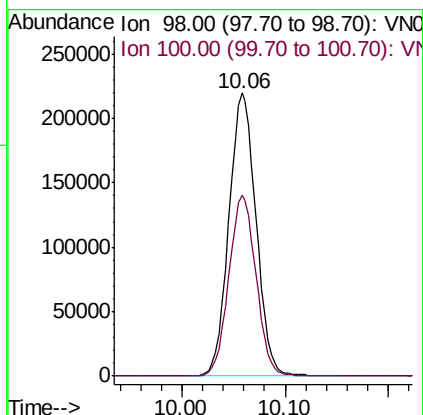
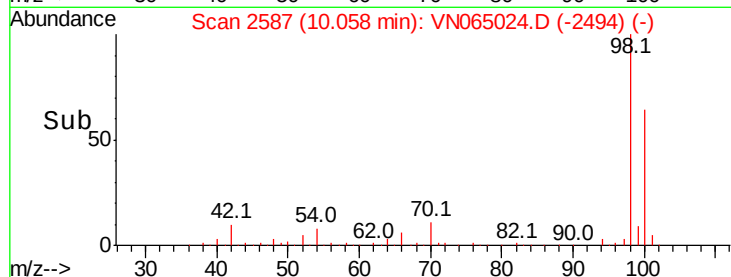
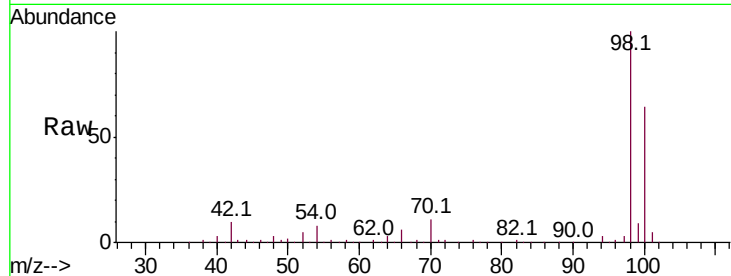
PB133472ZHE#05

Tot Ion: 98 Resp: 403028

Ion Ratio Lower Upper

98 100

100 63.9 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 1.376 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN065024.D

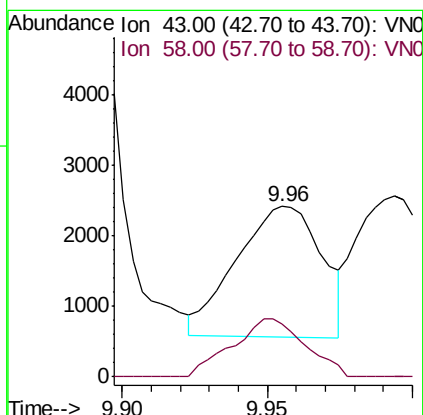
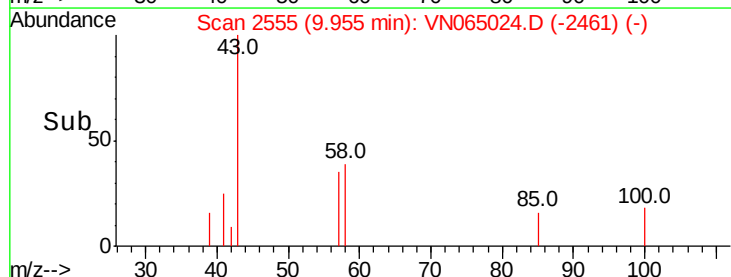
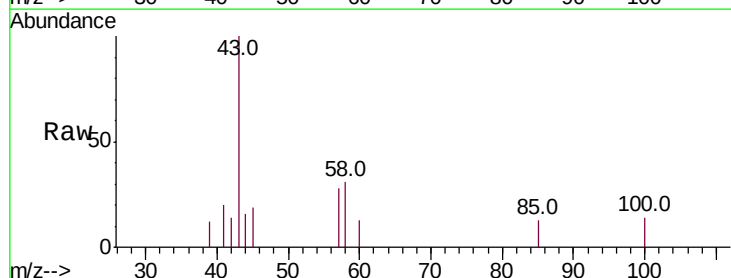
Acq: 9 Dec 2020 16:38

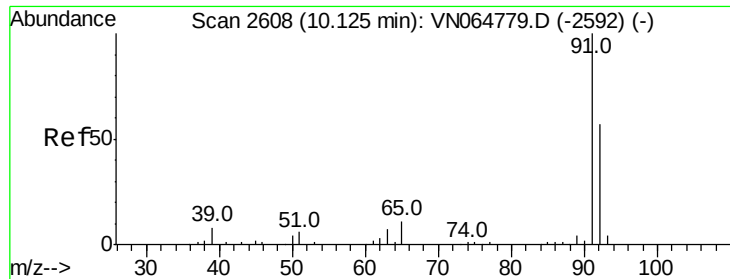
Tgt Ion: 43 Resp: 3782

Ion Ratio Lower Upper

43 100

58 38.0 32.4 48.6





#52

Toluene

Concen: 0.260 ug/l

RT: 10.13 min Scan# 2609

Delta R.T. 0.00 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

Instrument :

MSVOA_N

ClientSampleId :

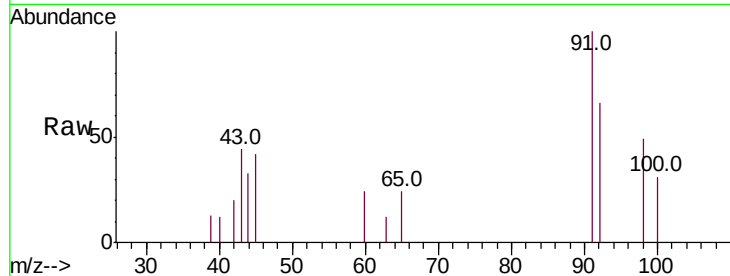
PB133472ZHE#05

Tot Ion: 92 Resp: 1451

Ion Ratio Lower Upper

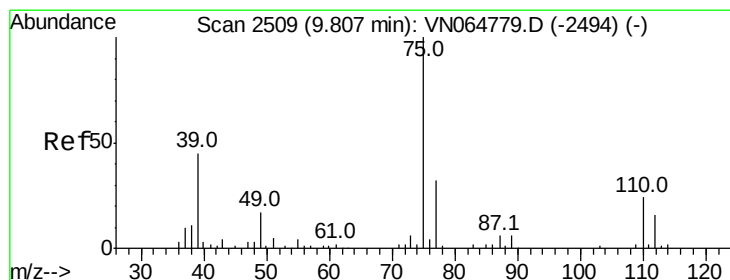
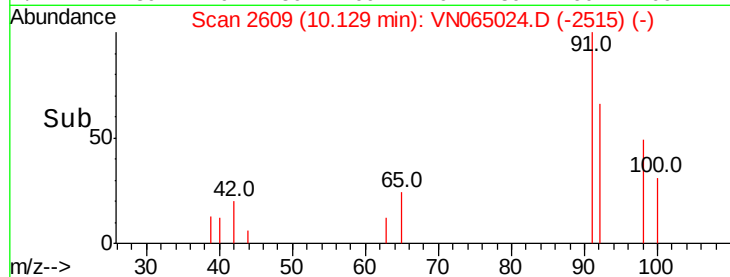
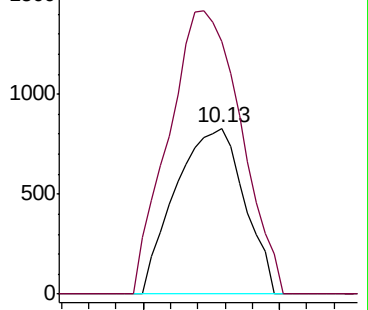
92 100

91 179.5 139.1 208.7



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

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



#54

cis-1,3-Dichloropropene

Concen: 7.558 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

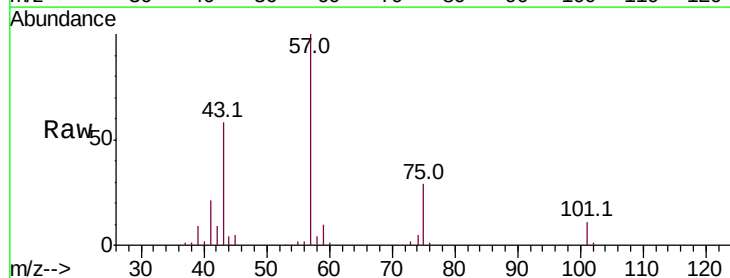
Tgt Ion: 75 Resp: 28440

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

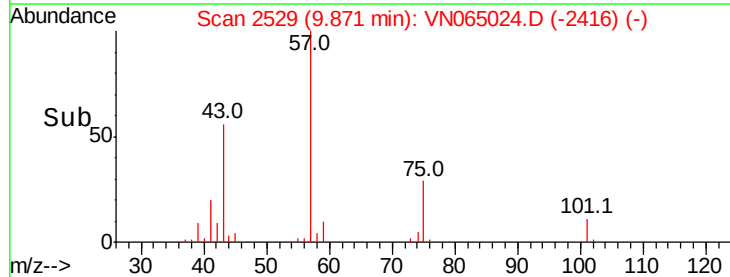
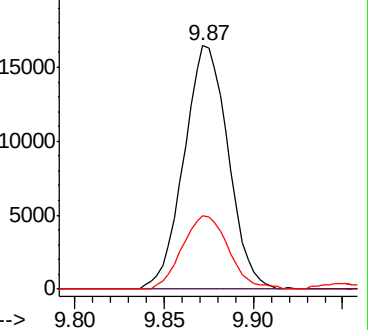
39 30.2 35.6 53.4#

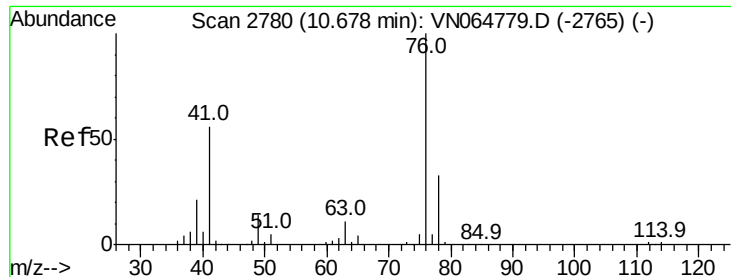


Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-2494) (-)

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

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

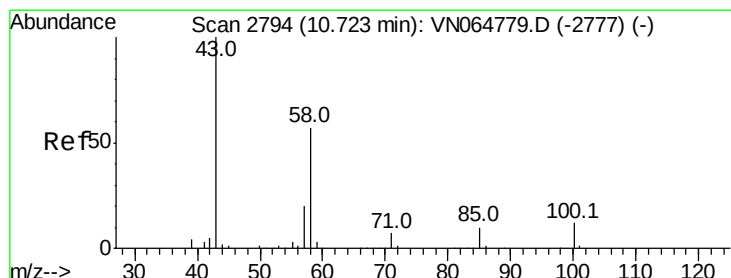
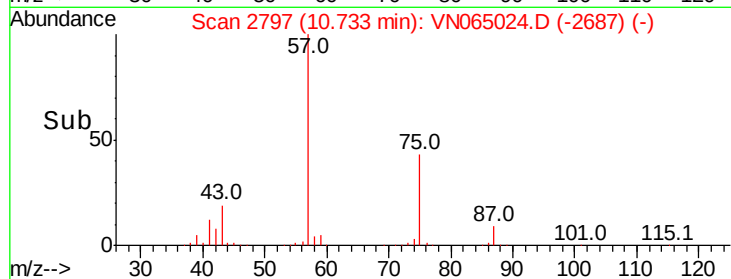
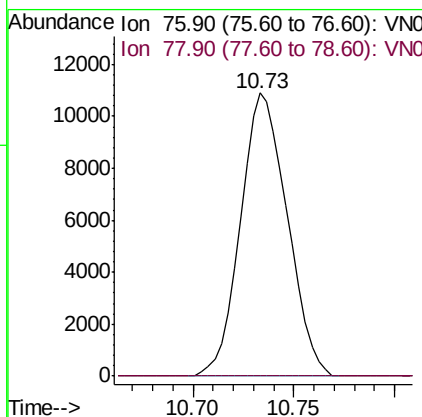
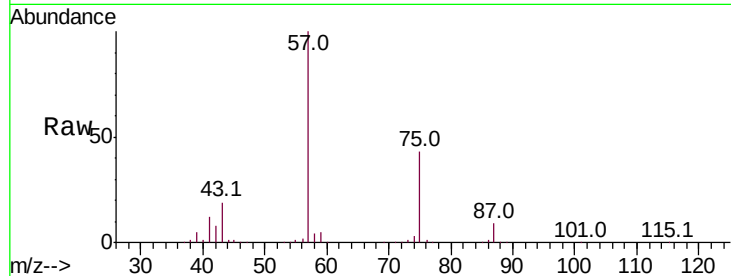




#57
 1,3-Dichloropropane
 Concen: 4.663 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN065024.D
 Acq: 9 Dec 2020 16:38

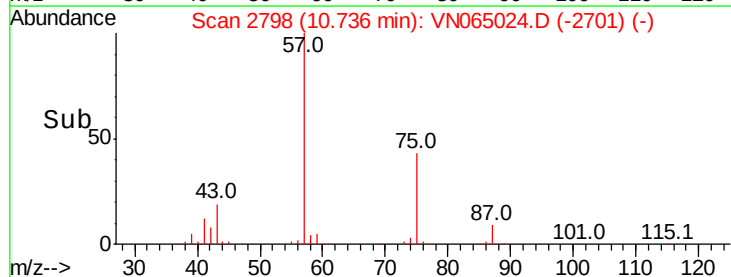
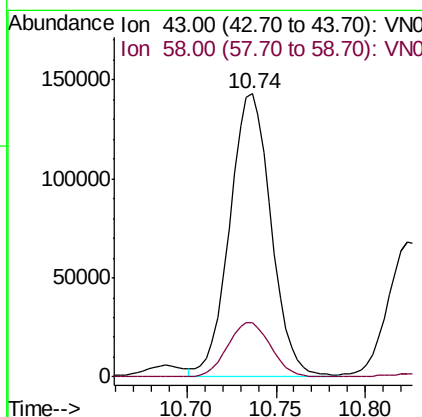
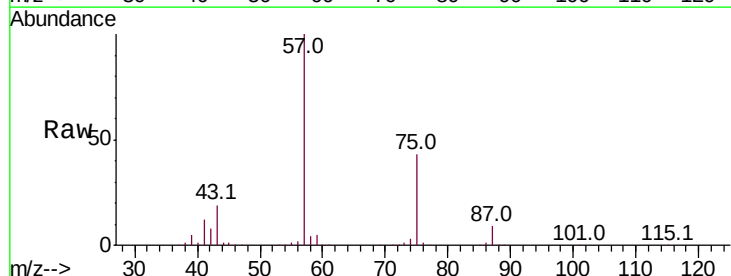
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#05

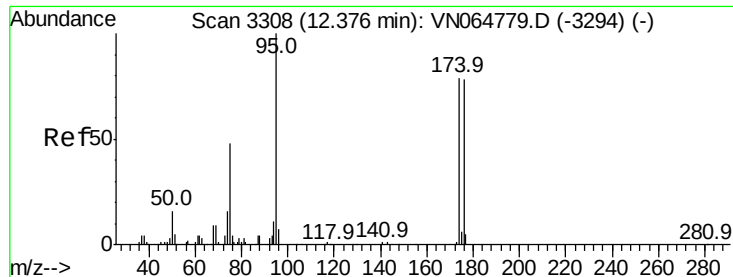
Tot Ion: 76 Resp: 17636
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#



#59
 2-Hexanone
 Concen: 116.246 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.01 min
 Lab File: VN065024.D
 Acq: 9 Dec 2020 16:38

Tgt Ion: 43 Resp: 230014
 Ion Ratio Lower Upper
 43 100
 58 20.1 28.3 84.9#

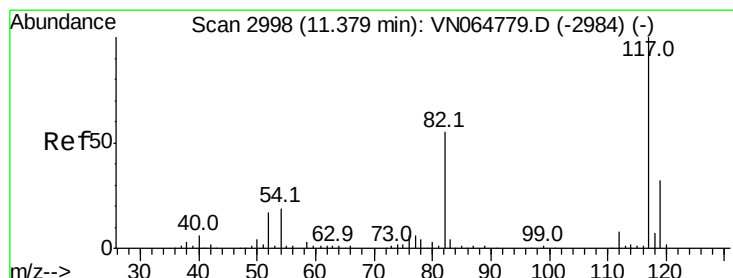
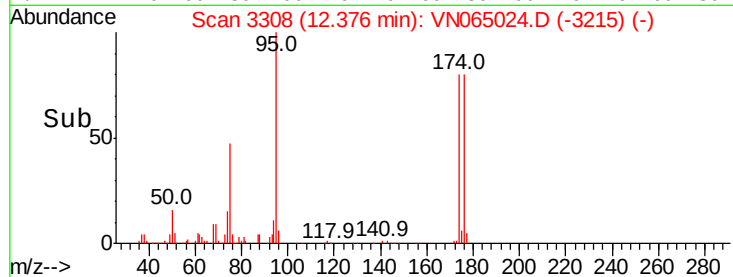
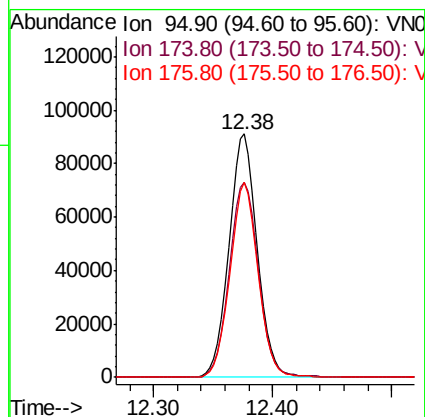
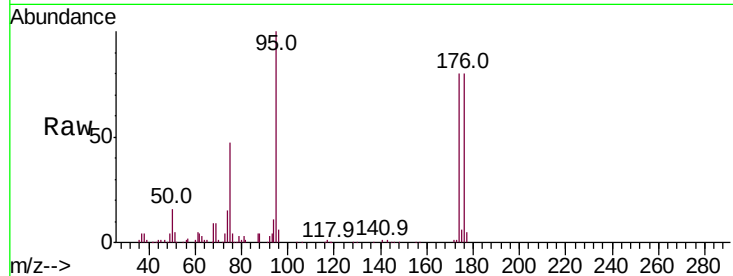




#62
4-Bromofluorobenzene
Concen: 53.659 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065024.D
Acq: 9 Dec 2020 16:38

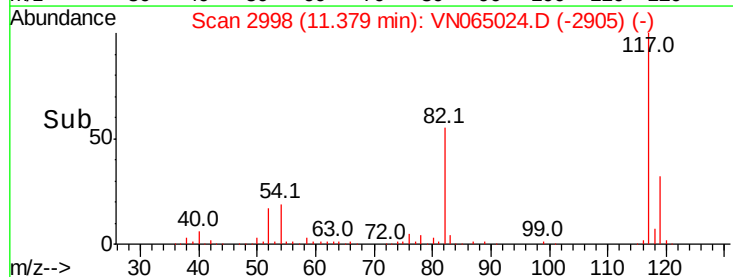
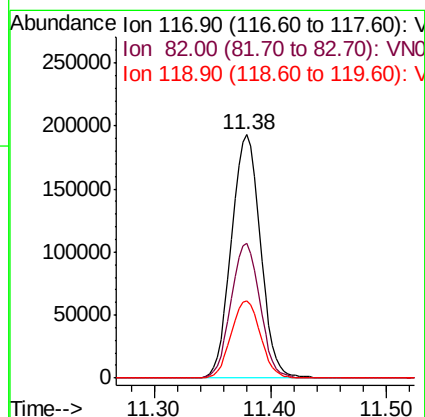
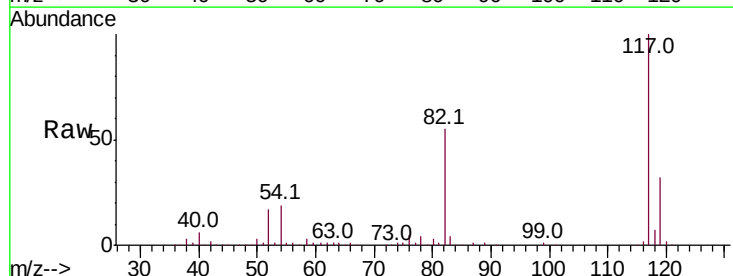
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#05

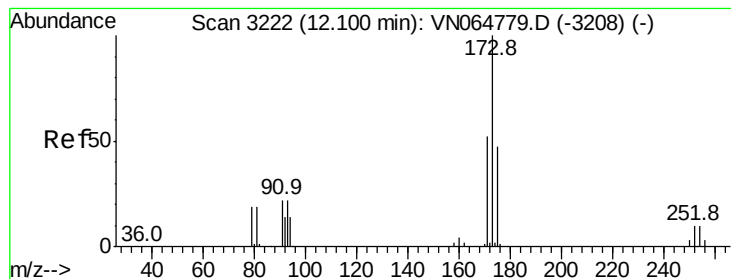
Tot Ion: 95 Resp: 149660
Ion Ratio Lower Upper
95 100
174 82.8 0.0 160.4
176 79.7 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065024.D
Acq: 9 Dec 2020 16:38

Tgt Ion: 117 Resp: 334824
Ion Ratio Lower Upper
117 100
82 55.1 44.2 66.2
119 31.9 25.8 38.6





#71

Bromoform

Concen: 0.285 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#05

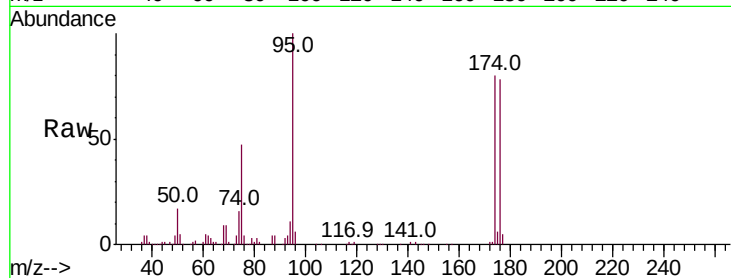
Tot Ion:173 Resp: 601

Ion Ratio Lower Upper

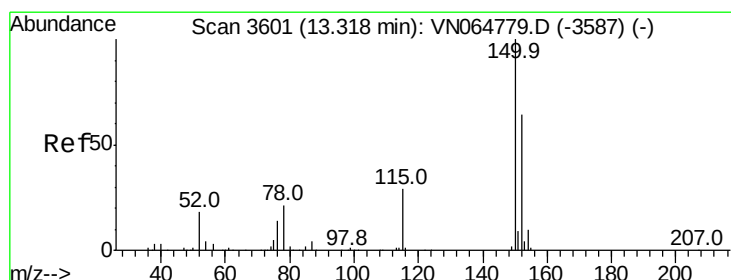
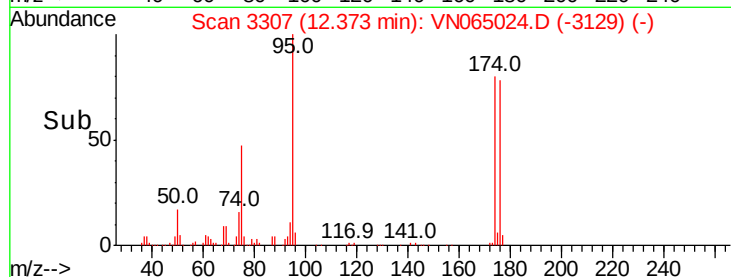
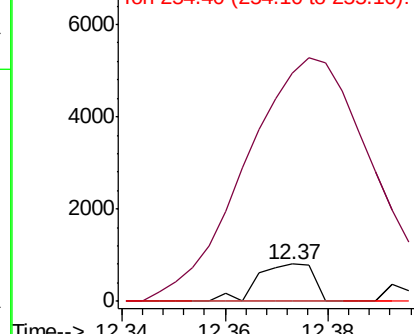
173 100

175 1256.9 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: VN065024.D

Acq: 9 Dec 2020 16:38

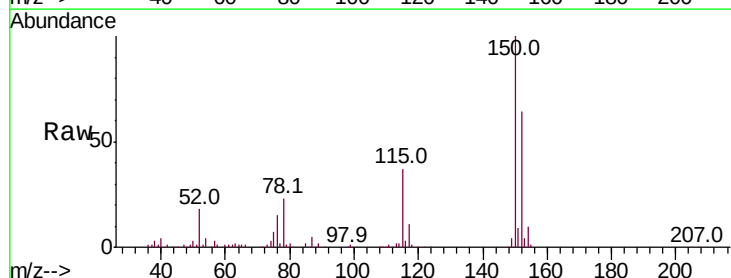
Tgt Ion:152 Resp: 140325

Ion Ratio Lower Upper

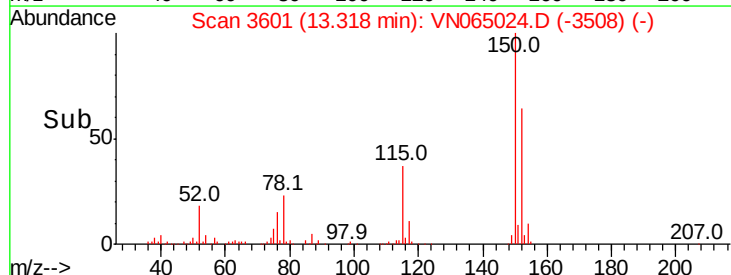
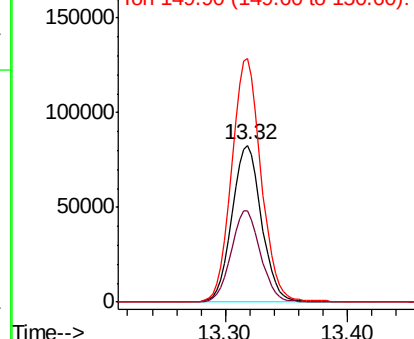
152 100

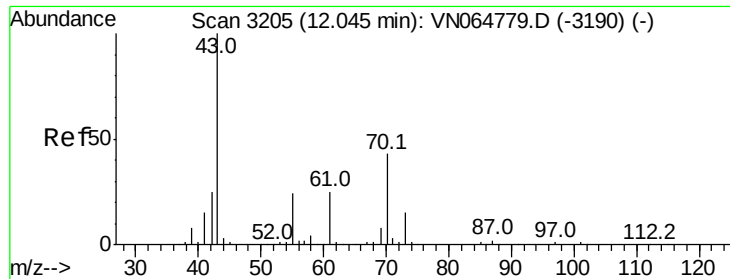
115 58.1 29.7 89.1

150 154.8 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





#74

N-amvl acetate

Concen: 2.879 ug/l

RT: 11.85 min Scan# 3144

Delta R.T. -0.20 min

Lab File: VN065024.D

Acq: 9 Dec 2020 16:38

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#05

Tot Ion: 43 Resp: 11059

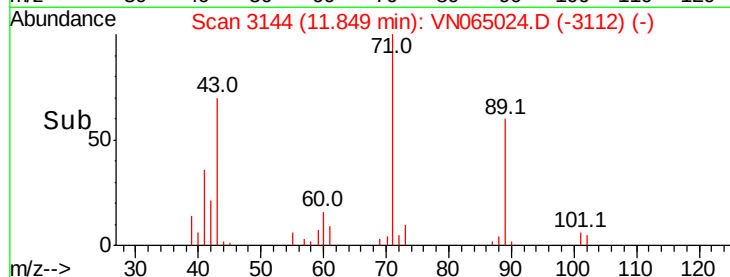
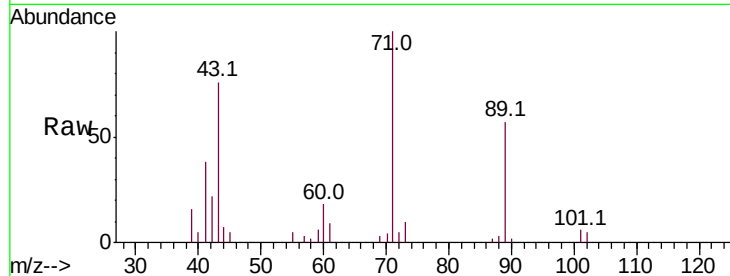
Ion Ratio Lower Upper

43 100

70 3.5 34.5 51.7#

55 5.8 20.4 30.6#

61 9.7 20.0 30.0#

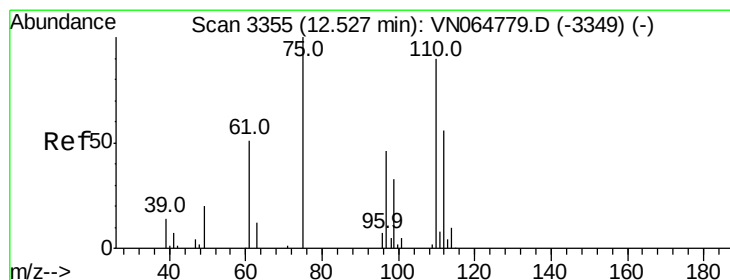
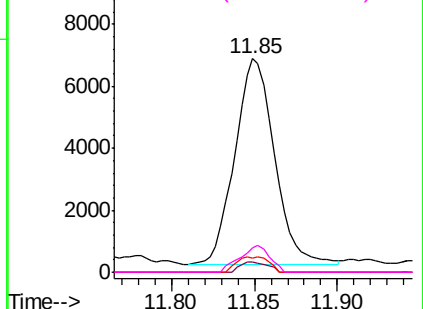


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 23.527 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN065024.D

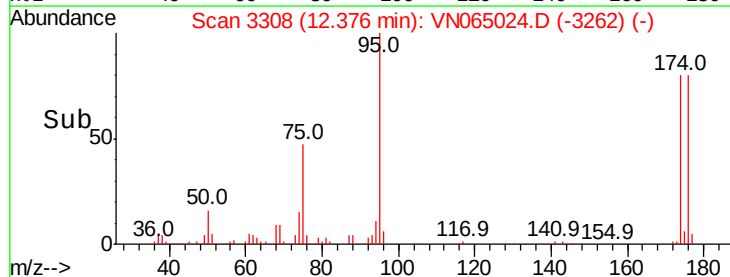
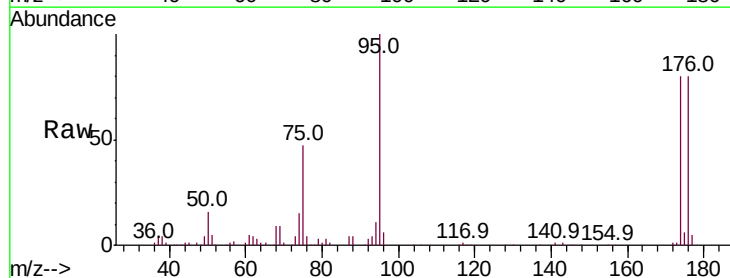
Acq: 9 Dec 2020 16:38

Tgt Ion: 75 Resp: 71099

Ion Ratio Lower Upper

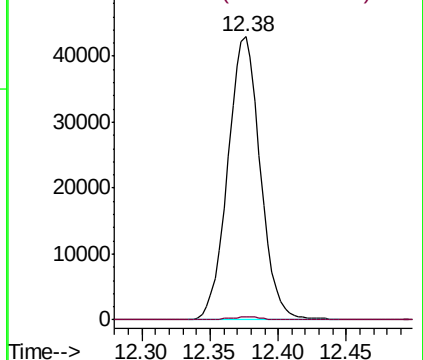
75 100

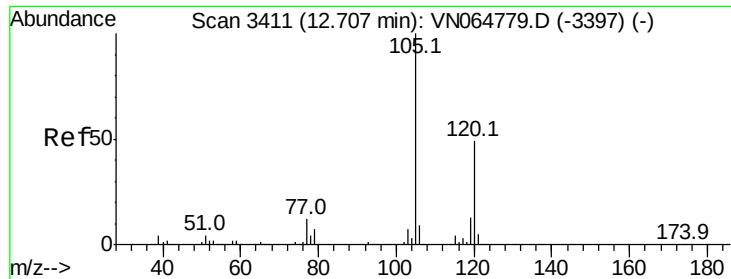
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

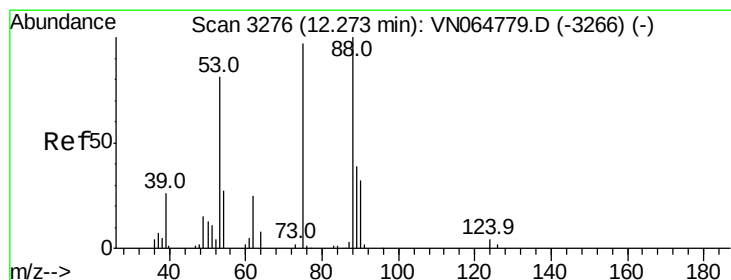
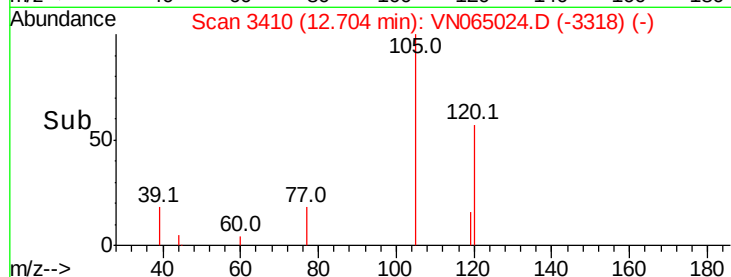
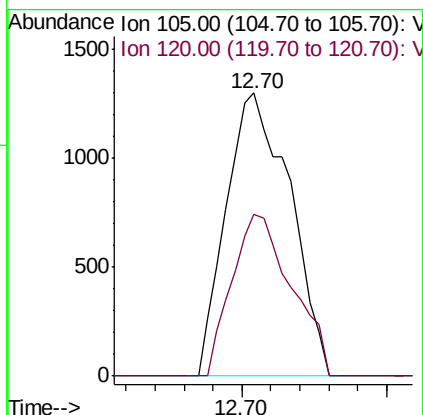
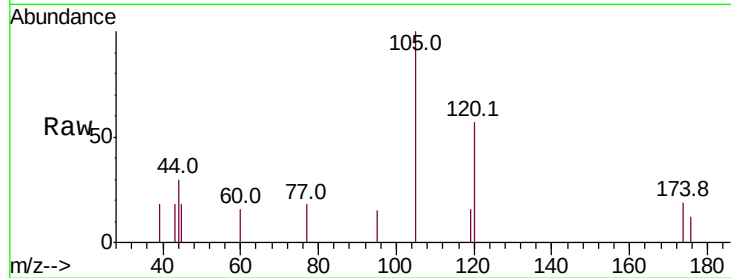




#80
 1,3,5-Trimethylbenzene
 Concen: 0.245 ug/l
 RT: 12.70 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN065024.D
 Acq: 9 Dec 2020 16:38

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#05

Tot Ion:105 Resp: 1985
 Ion Ratio Lower Upper
 105 100
 120 53.4 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.482 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN065024.D
 Acq: 9 Dec 2020 16:38

Tgt Ion: 75 Resp: 71099
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.0 100.4#
 89 0.0 39.6 59.4#

