

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064982.D
 Acq On : 8 Dec 2020 20:14
 Operator : JC/MD
 Sample : PB133456ZHE#19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#19

Quant Time: Dec 09 06:54:42 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	7.62	168	164697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	324662	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	337882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	138114	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	107825	56.31	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	112.62%
35) Dibromofluoromethane	7.55	113	99779	51.36	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	102.72%
50) Toluene-d8	10.06	98	402945	50.76	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	101.52%
62) 4-Bromofluorobenzene	12.37	95	149586	52.66	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	105.32%

Target Compounds

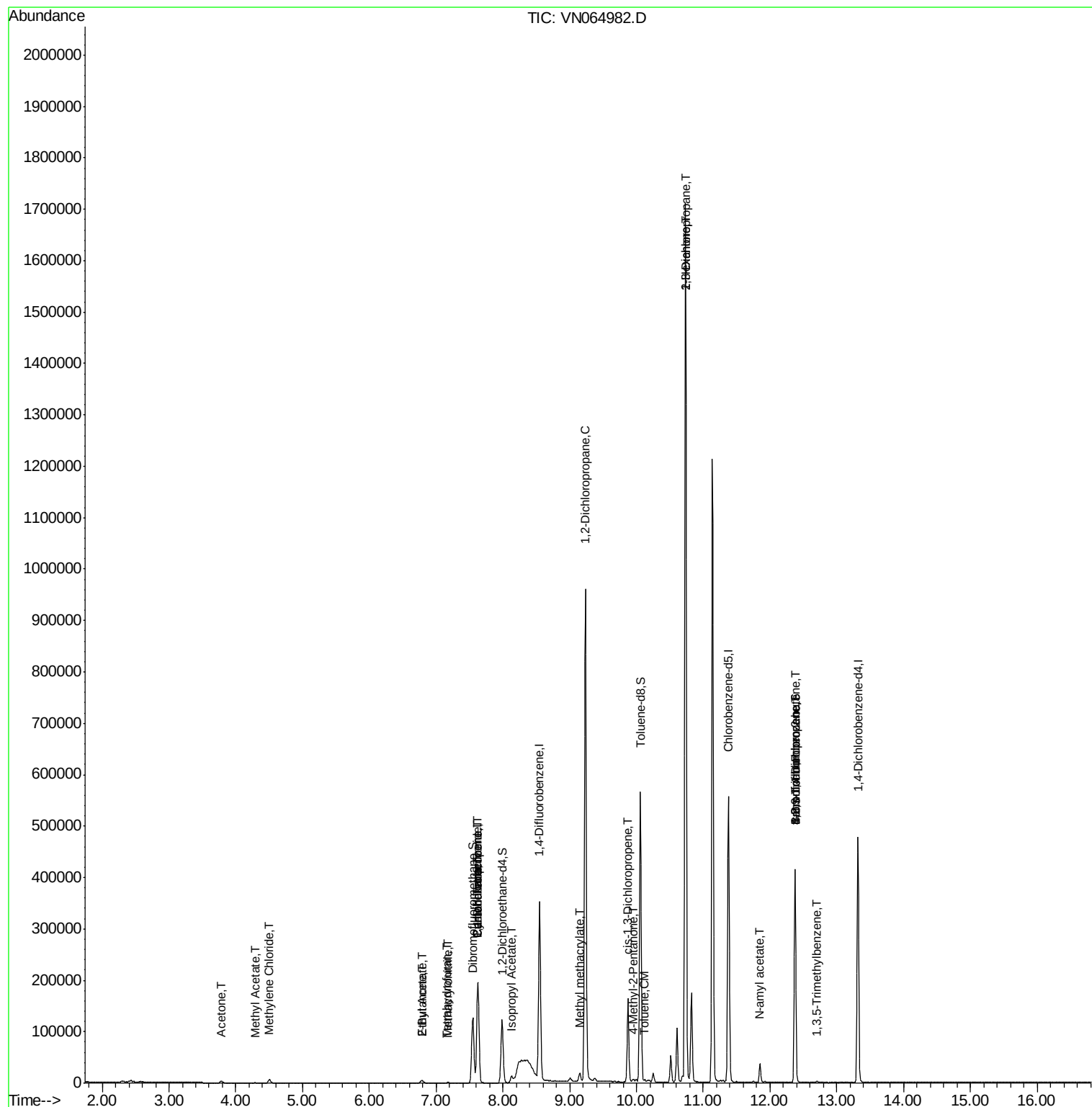
					Qvalue
16) Acetone	3.78	43	5915	9.398	ug/l 96
18) Methyl Acetate	4.29	43	1383	0.731	ug/l # 59
20) Methylene Chloride	4.50	84	4902	2.485	ug/l 95
25) 2-Butanone	6.79	43	2720	2.666	ug/l 95
29) Tetrahydrofuran	7.16	42	795	1.129	ug/l # 68
31) Cyclohexane	7.63	56	2853	1.069	ug/l # 2
36) 1,1-Dichloropropene	7.62	75	11842	3.935	ug/l # 48
37) Ethyl Acetate	6.79	43	2720	0.938	ug/l # 66
38) Carbon Tetrachloride	7.62	117	15819	5.052	ug/l # 16
41) Methacrylonitrile	7.18	41	453	0.339	ug/l # 13
43) Isopropyl Acetate	8.13	43	17088	3.663	ug/l # 92
45) 1,2-Dichloropropane	9.24	63	1130	0.473	ug/l # 43
48) Methyl methacrylate	9.14	41	4165	1.869	ug/l # 12
51) 4-Methyl-2-Pentanone	9.96	43	4068	1.453	ug/l # 81
52) Toluene	10.12	92	1533	0.270	ug/l 93
54) cis-1,3-Dichloropropene	9.87	75	30084	7.850	ug/l # 62
57) 1,3-Dichloropropane	10.73	76	19000	4.932	ug/l # 42
59) 2-Hexanone	10.73	43	234048	116.134	ug/l # 51
71) Bromoform	12.38	173	1270	0.596	ug/l # 1
74) N-amyl acetate	11.85	43	10642	2.815	ug/l # 52
76) 1,2,3-Trichloropropane	12.37	75	69921	23.508	ug/l # 100
80) 1,3,5-Trimethylbenzene	12.71	105	2193	0.275	ug/l 86
81) trans-1,4-Dichloro-2-buten	12.37	75	69921	64.429	ug/l # 15

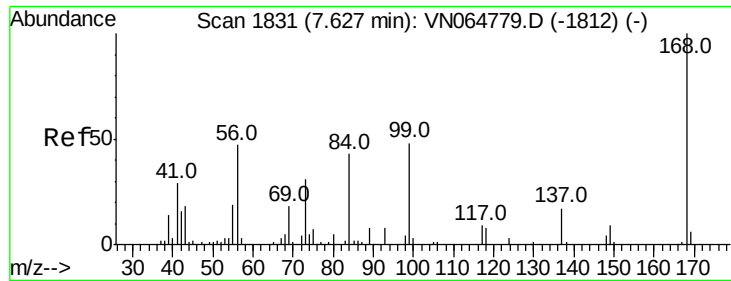
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

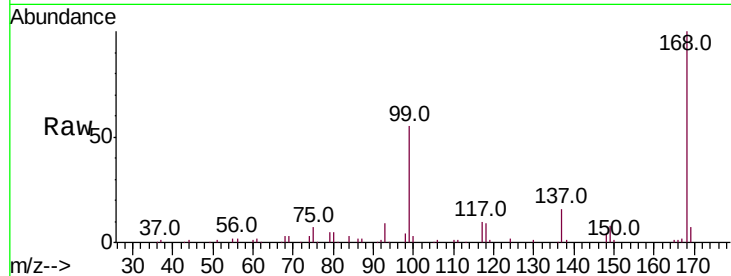
PB133456ZHE#19

Tot Ion:168 Resp: 164697

Ion Ratio Lower Upper

168 100

99 55.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

60000

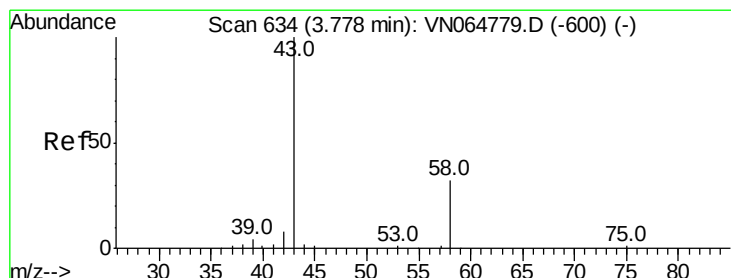
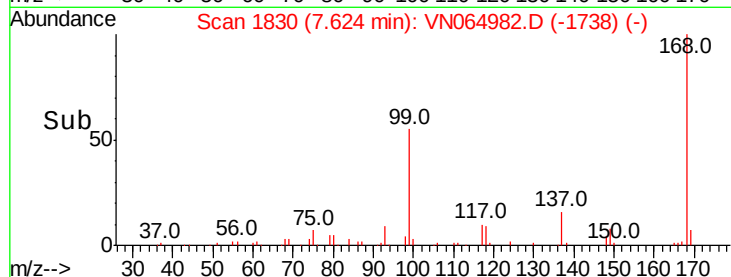
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 9.398 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064982.D

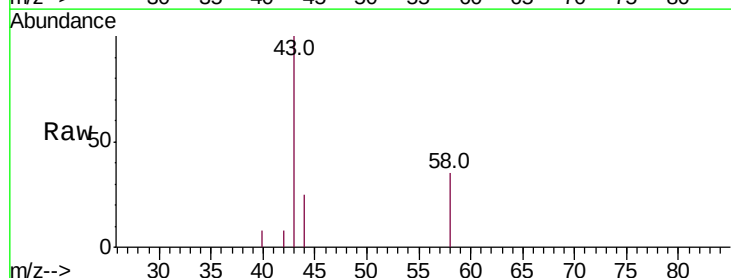
Acq: 8 Dec 2020 20:14

Tgt Ion: 43 Resp: 5915

Ion Ratio Lower Upper

43 100

58 34.6 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

2500

2000

1500

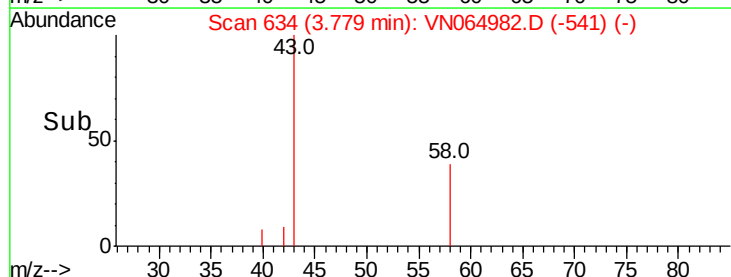
1000

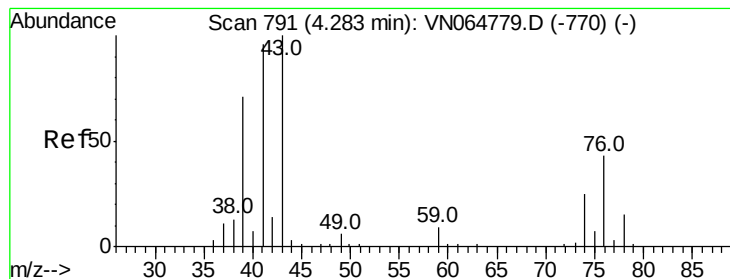
500

0

3.70 3.75 3.80 3.85

Time-->





#18

Methyl Acetate

Concen: 0.731 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

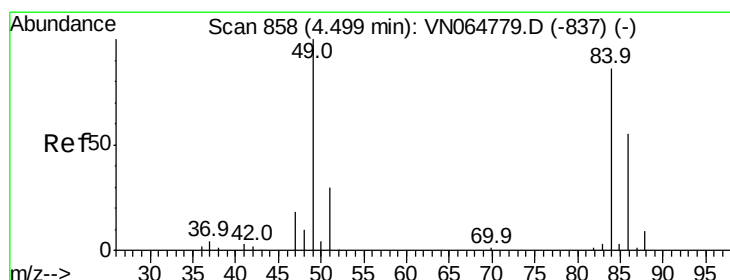
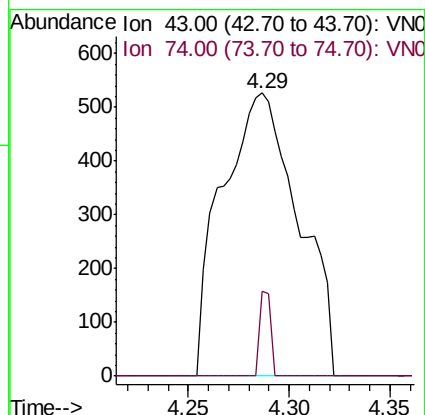
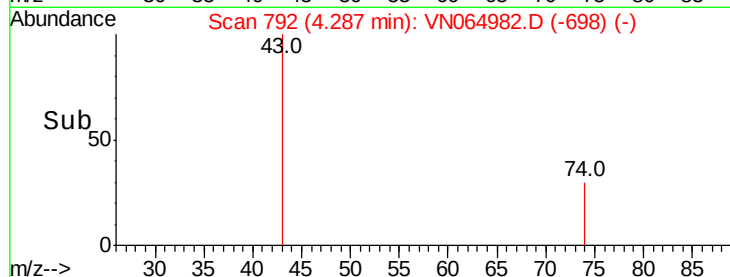
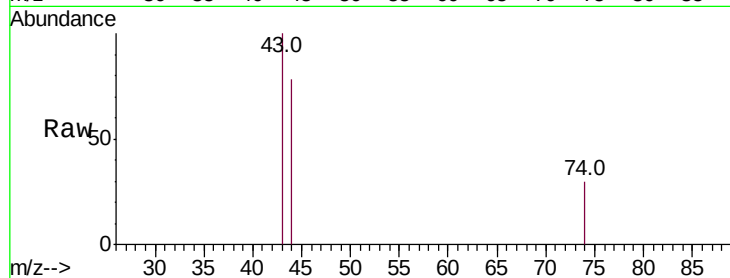
PB133456ZHE#19

Tot Ion: 43 Resp: 1383

Ion Ratio Lower Upper

43 100

74 4.3 20.2 30.2#



#20

Methylene Chloride

Concen: 2.485 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Tgt Ion: 84 Resp: 4902

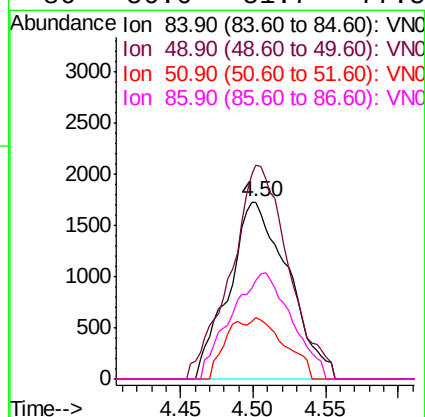
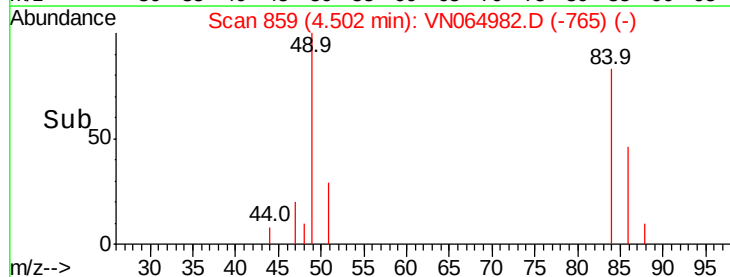
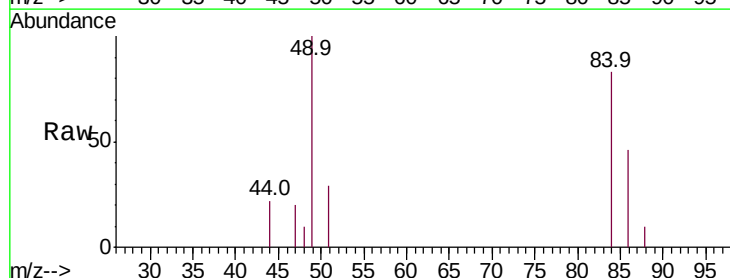
Ion Ratio Lower Upper

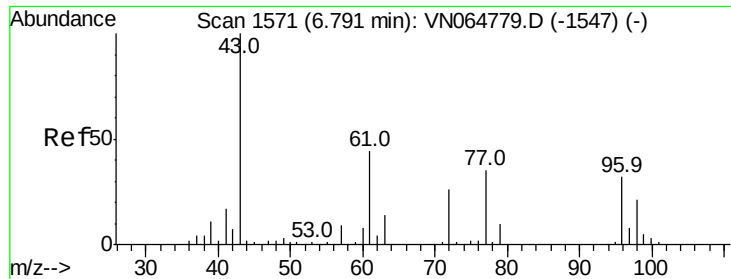
84 100

49 120.7 93.4 140.0

51 35.1 28.2 42.4

86 56.0 51.7 77.5

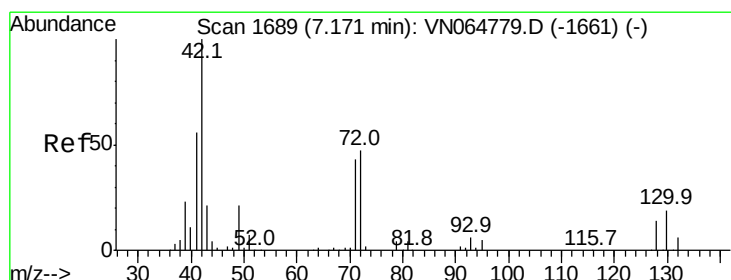
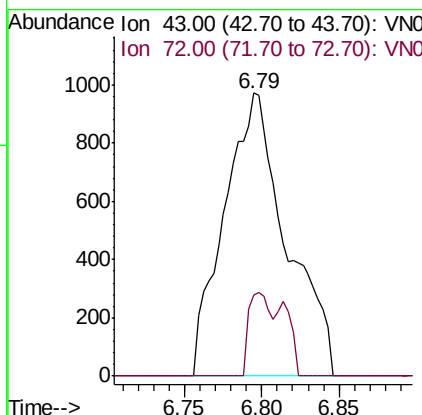
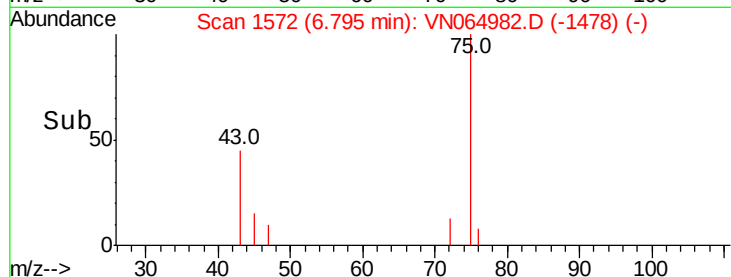
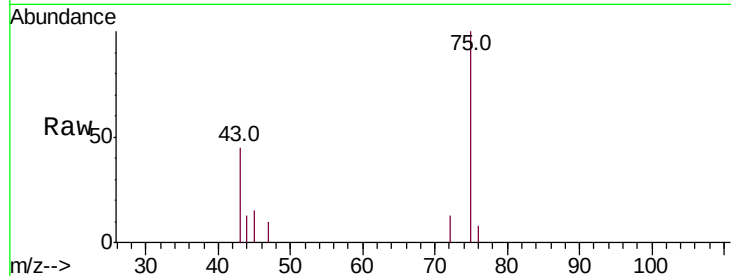




#25
2-Butanone
Concen: 2.666 ug/l
RT: 6.79 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN064982.D
Acq: 8 Dec 2020 20:14

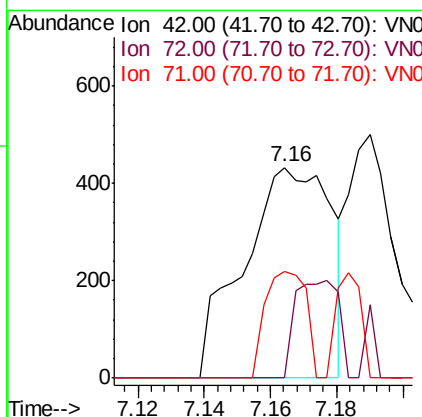
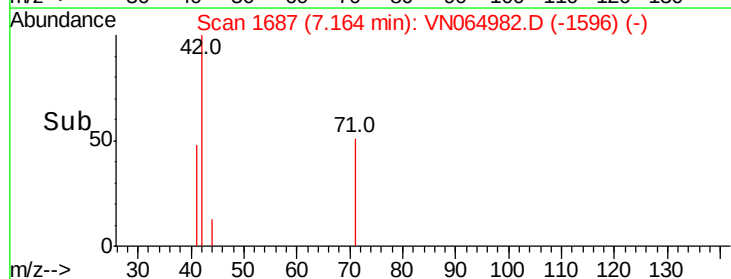
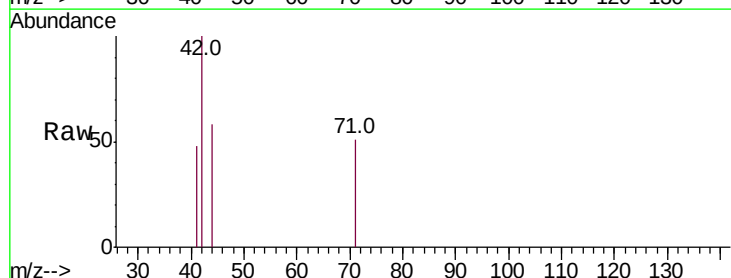
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#19

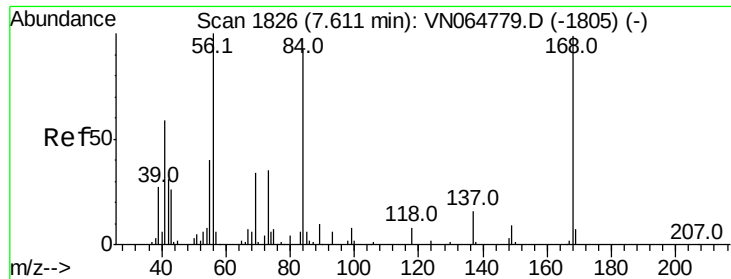
Tot Ion: 43 Resp: 2720
Ion Ratio Lower Upper
43 100
72 28.7 21.0 31.6



#29
Tetrahydrofuran
Concen: 1.129 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VN064982.D
Acq: 8 Dec 2020 20:14

Tgt Ion: 42 Resp: 795
Ion Ratio Lower Upper
42 100
72 23.0 36.6 54.8#
71 23.5 33.6 50.4#





#31

Cyclohexane

Concen: 1.069 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#19

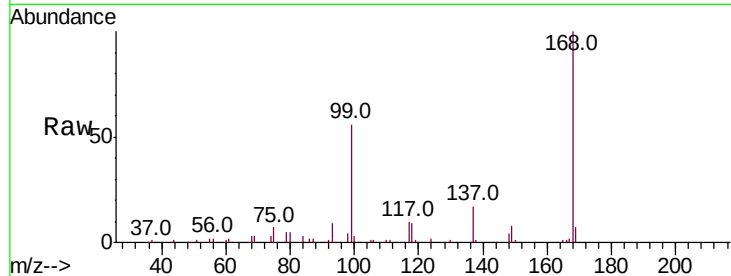
Tot Ion: 56 Resp: 2853

Ion Ratio Lower Upper

56 100

69 170.9 27.5 41.3#

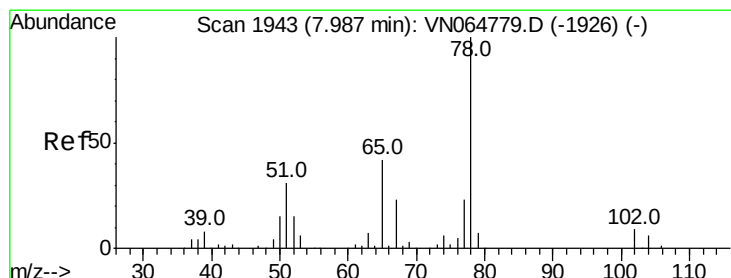
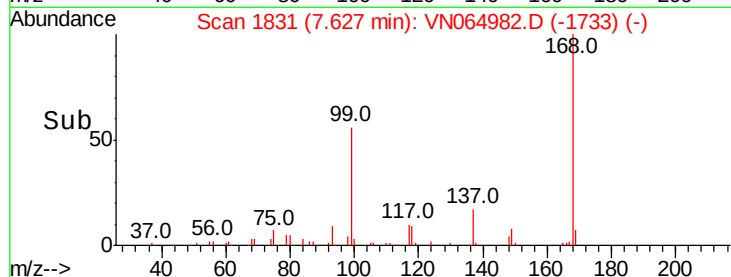
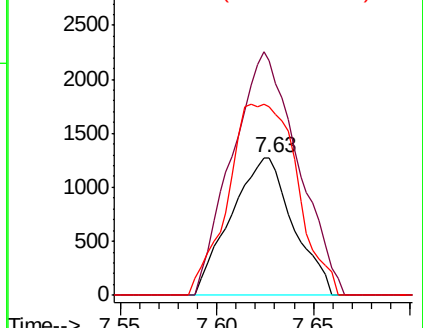
84 137.1 73.9 110.9#



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: 56.314 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064982.D

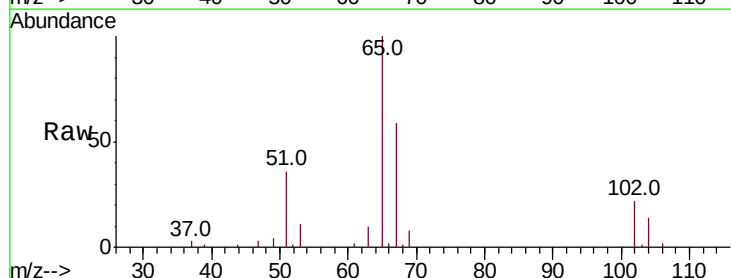
Acq: 8 Dec 2020 20:14

Tgt Ion: 65 Resp: 107825

Ion Ratio Lower Upper

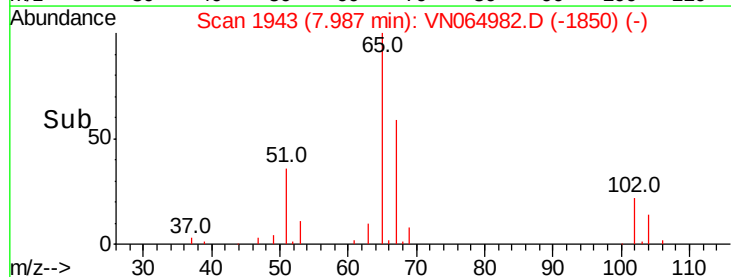
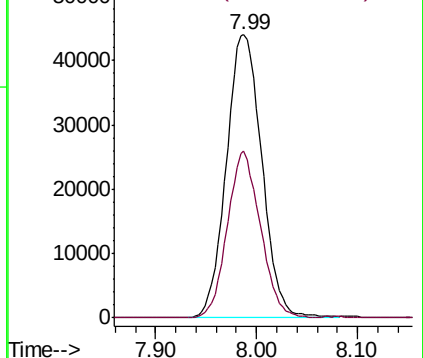
65 100

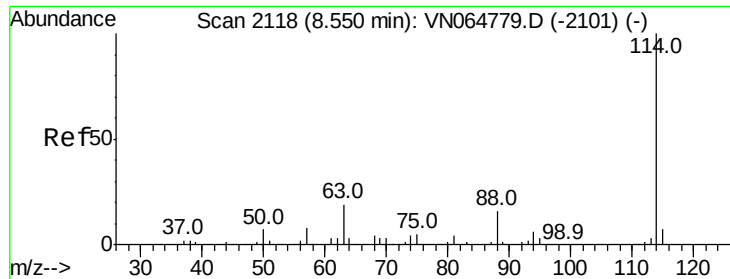
67 54.8 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

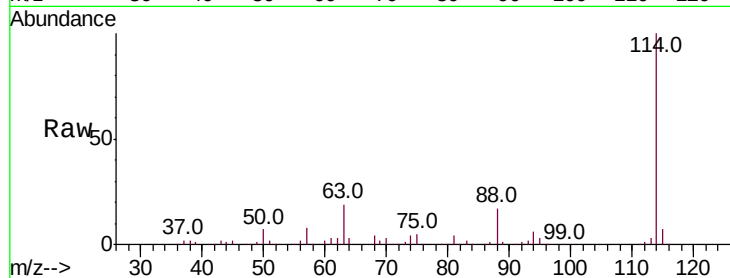




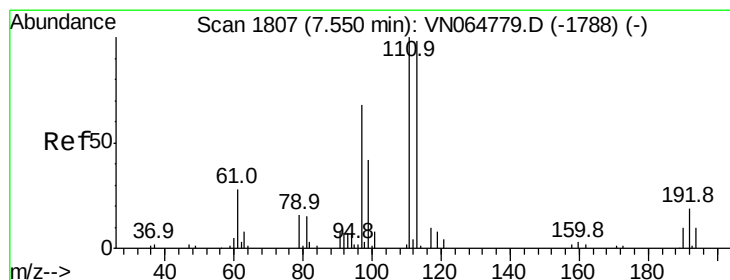
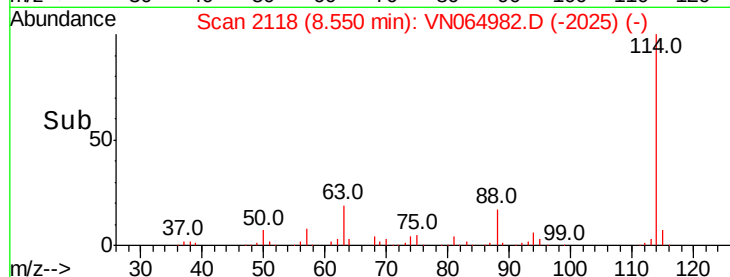
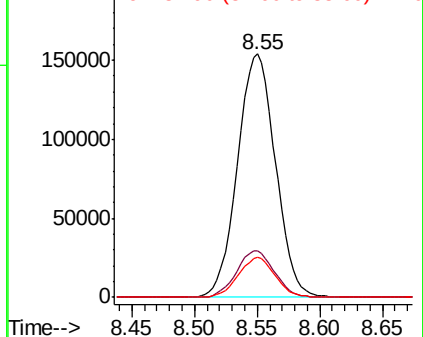
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064982.D
 Acq: 8 Dec 2020 20:14

Instrument :
 MSVOA_N
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 PB133456ZHE#19

Tot Ion:114 Resp: 324662
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 38.6
 88 16.5 0.0 32.6

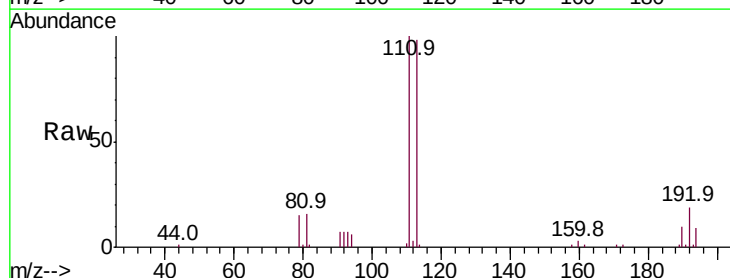


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

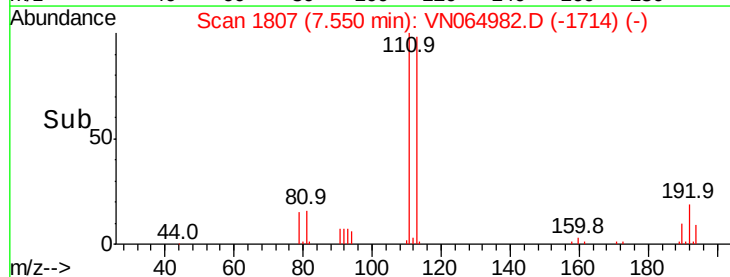
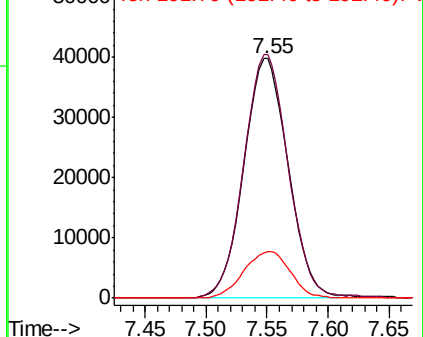


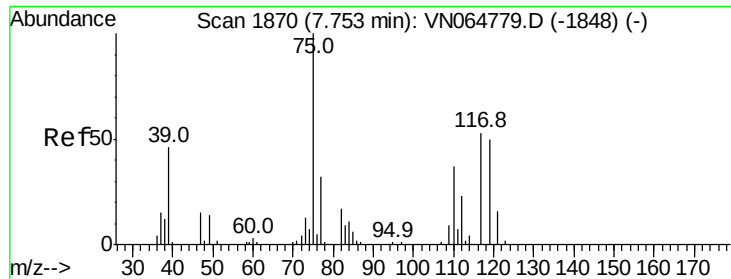
#35
 Dibromofluoromethane
 Concen: 51.362 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064982.D
 Acq: 8 Dec 2020 20:14

Tgt Ion:113 Resp: 99779
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.6 122.4
 192 20.5 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: 3.935 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#19

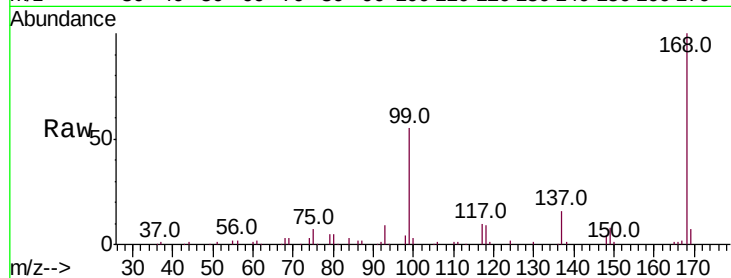
Tot Ion: 75 Resp: 11842

Ion Ratio Lower Upper

75 100

110 7.6 17.8 53.3#

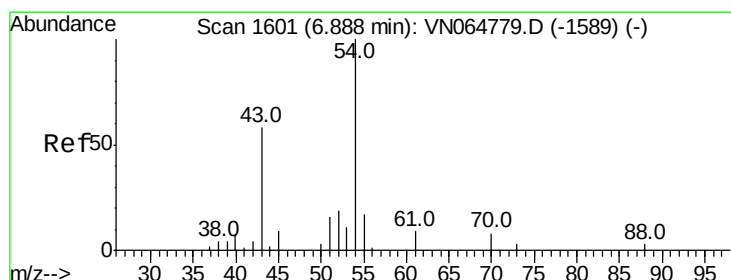
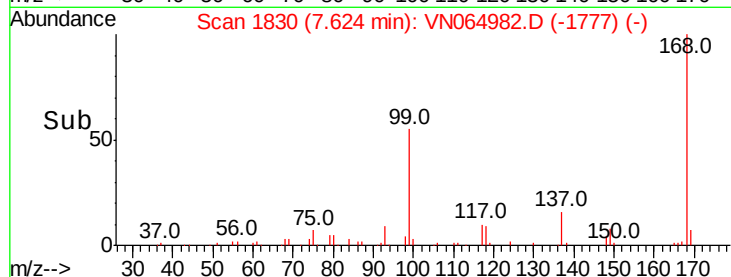
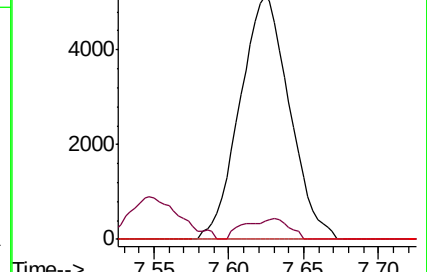
77 0.0 25.0 37.4#



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

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

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



#37

Ethyl Acetate

Concen: 0.938 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. -0.09 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

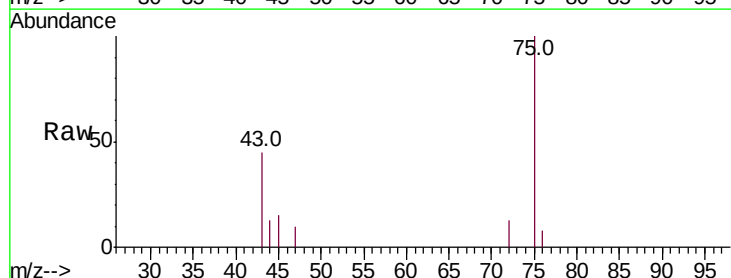
Tgt Ion: 43 Resp: 2720

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

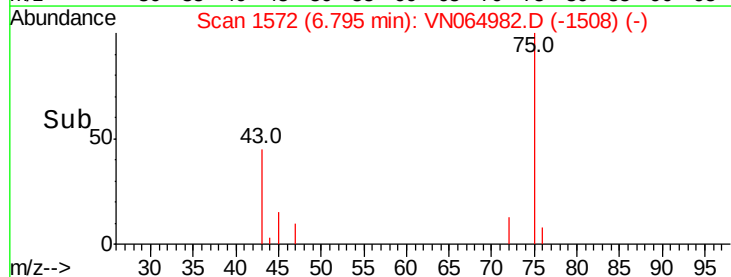
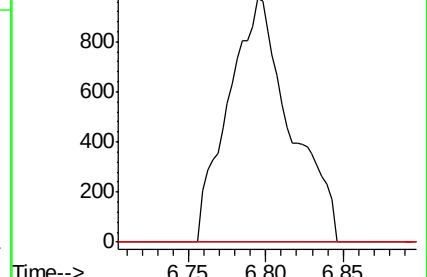
70 0.0 8.8 13.2#

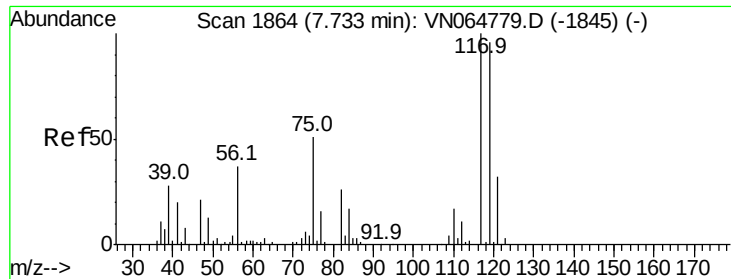


Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-1589) (-)

Ion 60.90 (60.60 to 61.60): VN064779.D (-1589) (-)

Ion 70.00 (69.70 to 70.70): VN064779.D (-1589) (-)





#38

Carbon Tetrachloride

Concen: 5.052 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#19

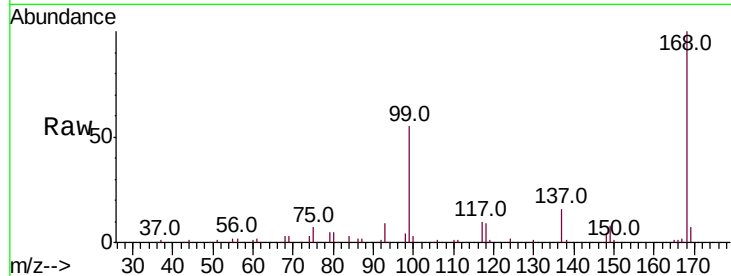
Tot Ion:117 Resp: 15819

Ion Ratio Lower Upper

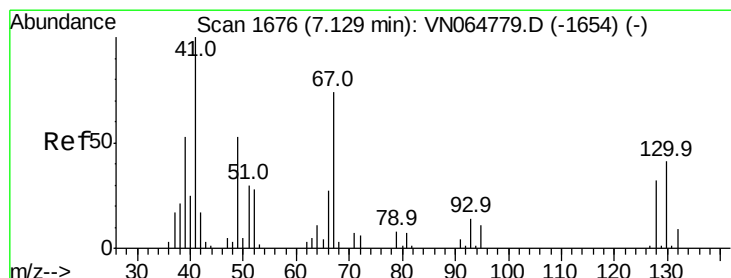
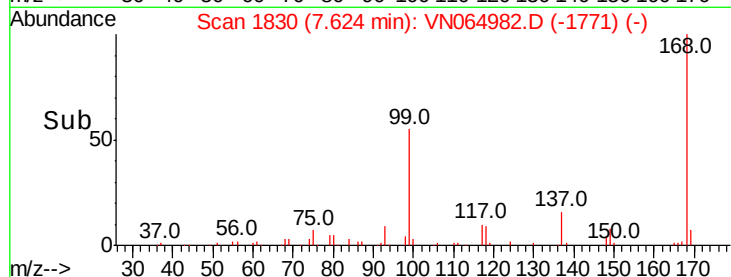
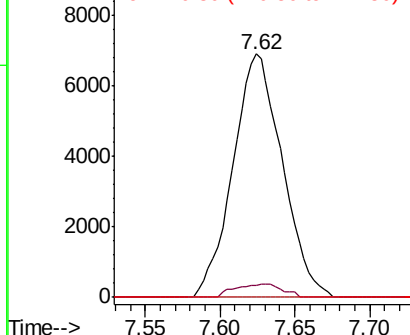
117 100

119 5.1 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: 0.339 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.05 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Tgt Ion: 41 Resp: 453

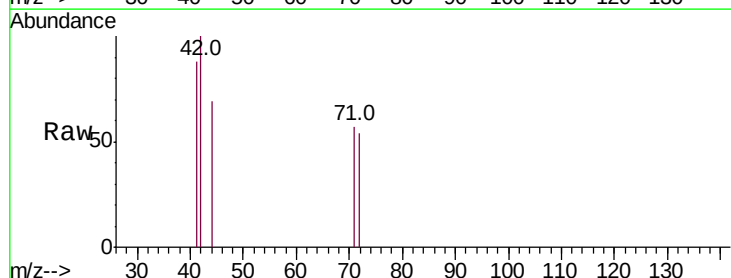
Ion Ratio Lower Upper

41 100

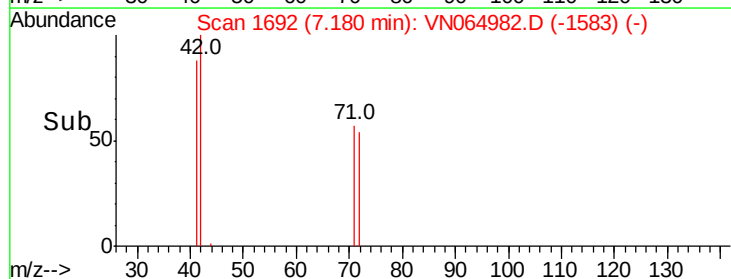
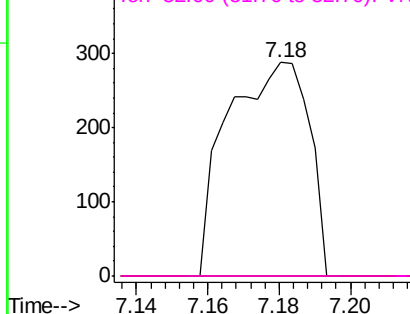
39 0.0 51.0 76.6#

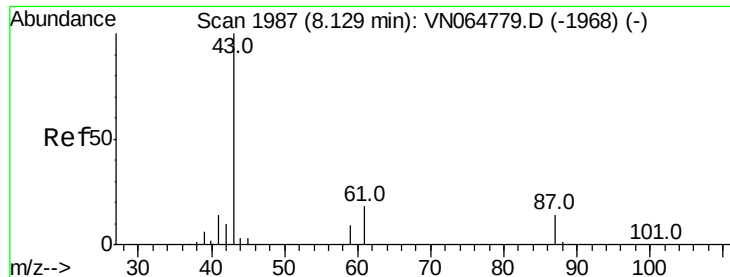
67 0.0 79.8 119.8#

52 0.0 31.5 47.3#



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: 3.663 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#19

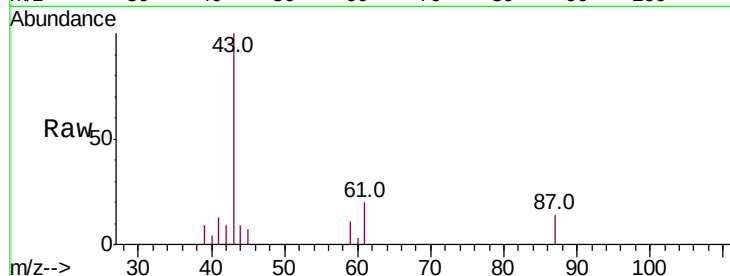
Tot Ion: 43 Resp: 17088

Ion Ratio Lower Upper

43 100

61 16.9 17.2 25.8#

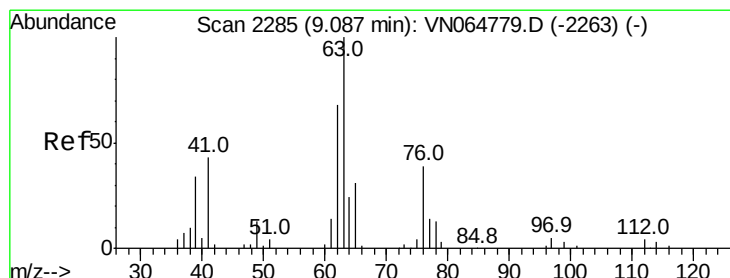
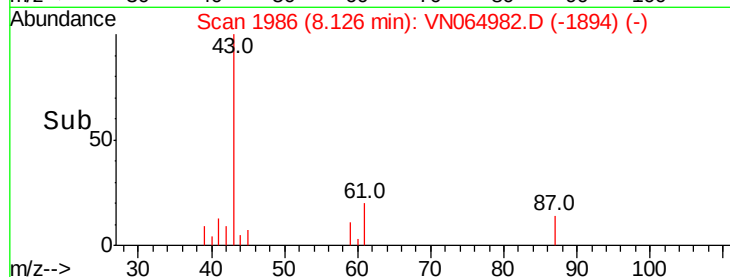
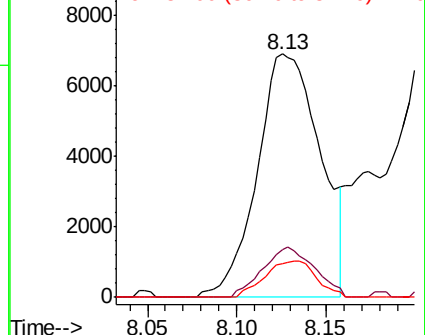
87 12.2 11.4 17.0



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: 0.473 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.15 min

Lab File: VN064982.D

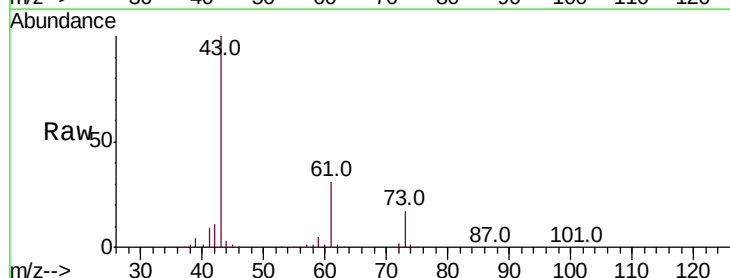
Acq: 8 Dec 2020 20:14

Tgt Ion: 63 Resp: 1130

Ion Ratio Lower Upper

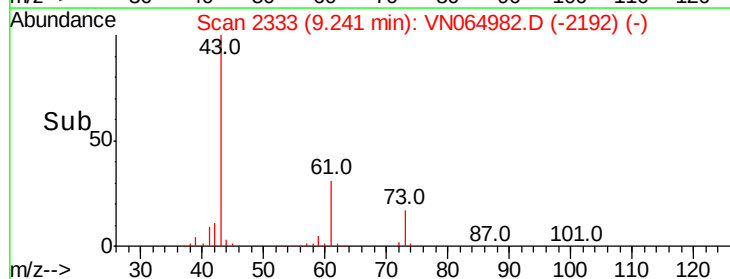
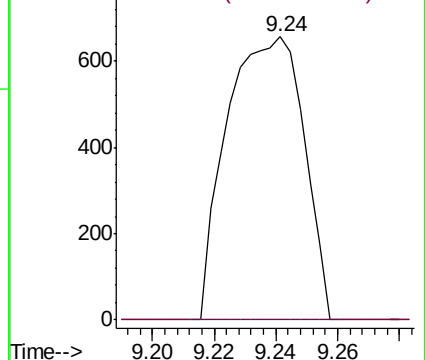
63 100

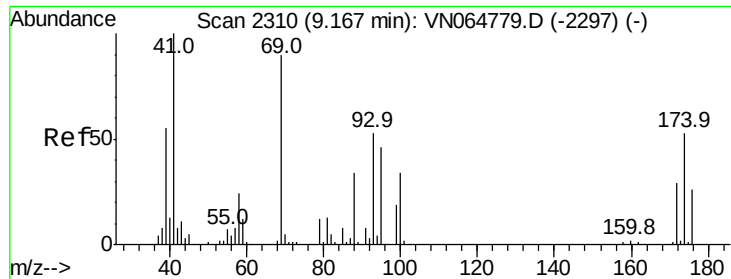
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

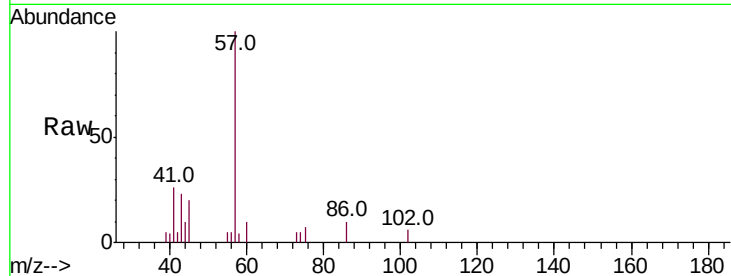




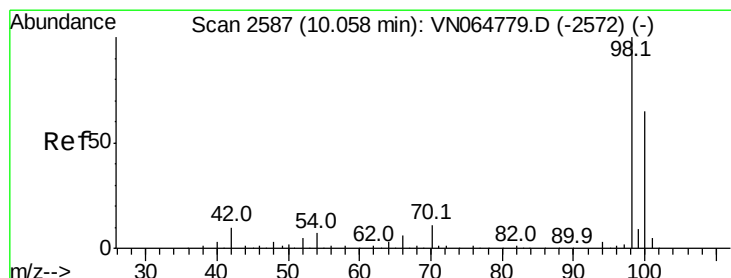
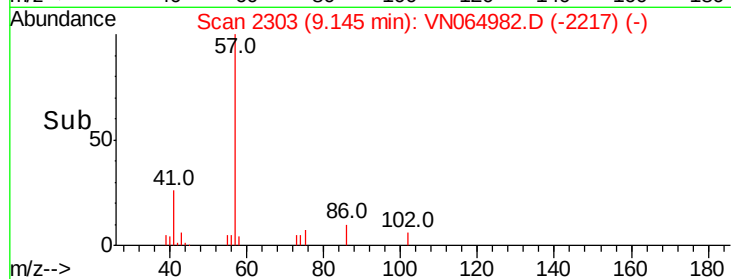
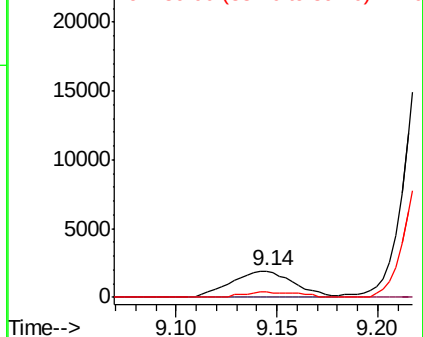
#48
Methvl methacrylate
Concen: 1.869 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064982.D
Acq: 8 Dec 2020 20:14

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#19

Tot Ion: 41 Resp: 4165
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

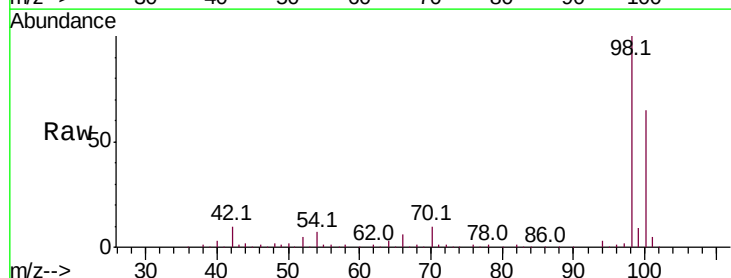


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

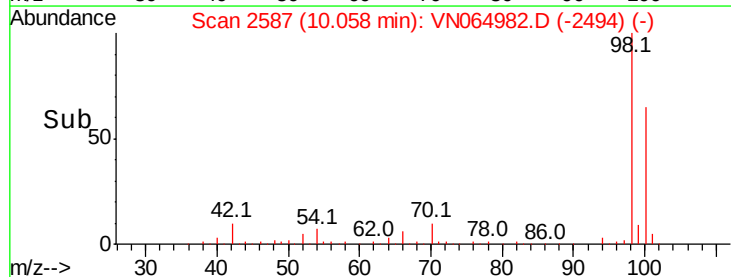
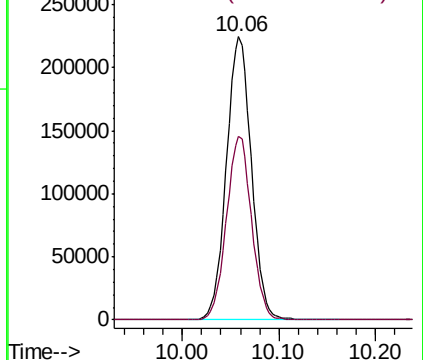


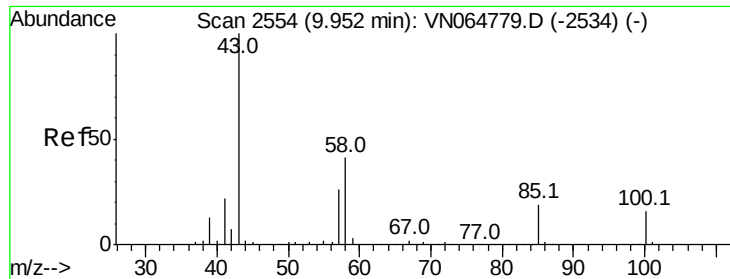
#50
Toluene-d8
Concen: 50.764 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064982.D
Acq: 8 Dec 2020 20:14

Tgt Ion: 98 Resp: 402945
Ion Ratio Lower Upper
98 100
100 65.1 51.7 77.5



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: 1.453 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

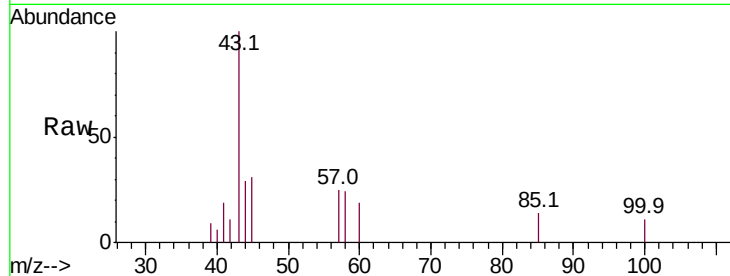
PB133456ZHE#19

Tot Ion: 43 Resp: 4068

Ion Ratio Lower Upper

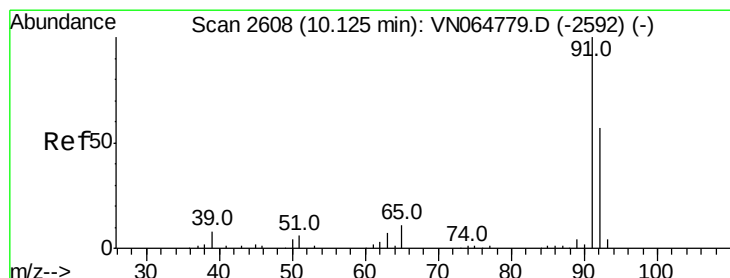
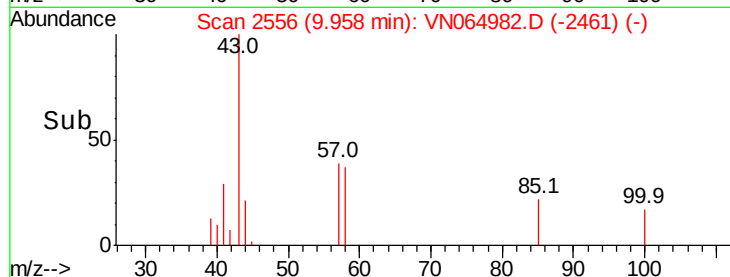
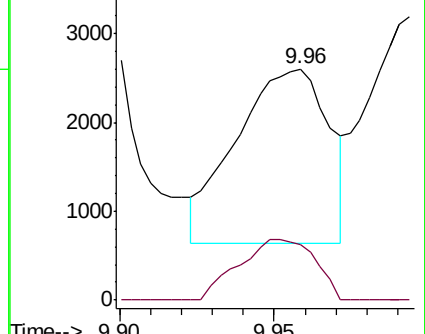
43 100

58 28.6 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 0.270 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064982.D

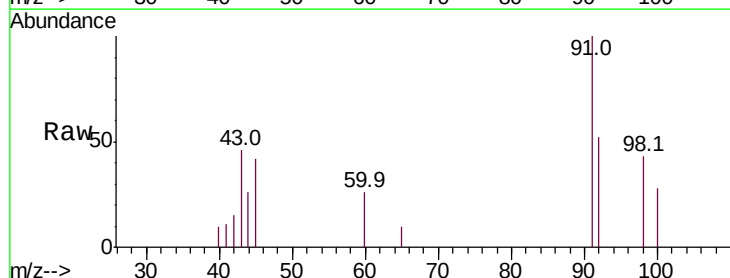
Acq: 8 Dec 2020 20:14

Tgt Ion: 92 Resp: 1533

Ion Ratio Lower Upper

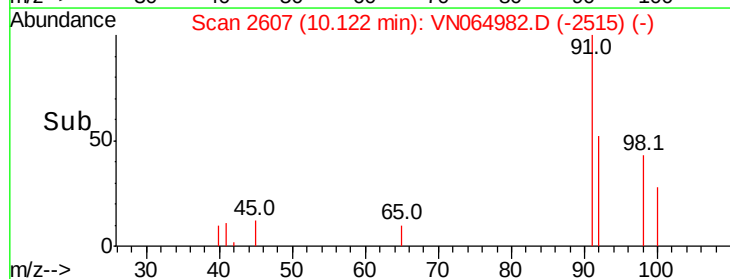
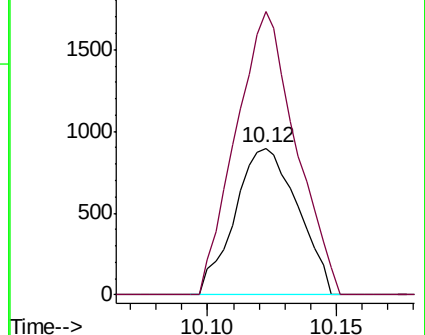
92 100

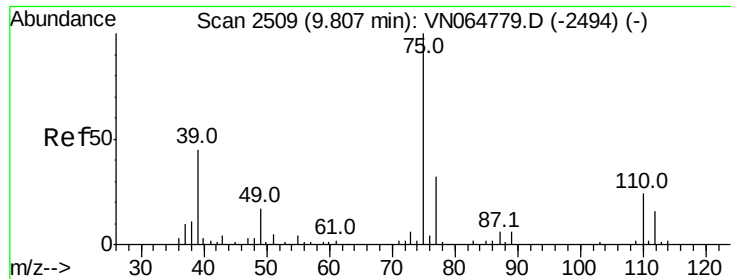
91 183.3 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 7.850 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#19

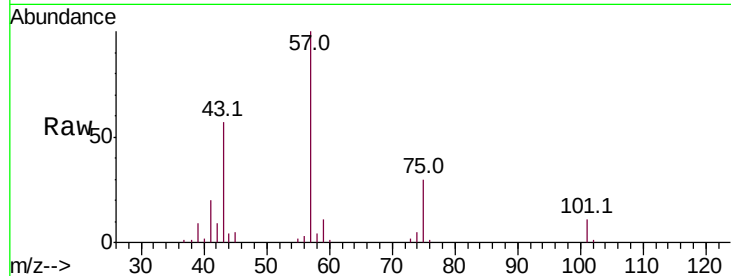
Tot Ion: 75 Resp: 30084

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

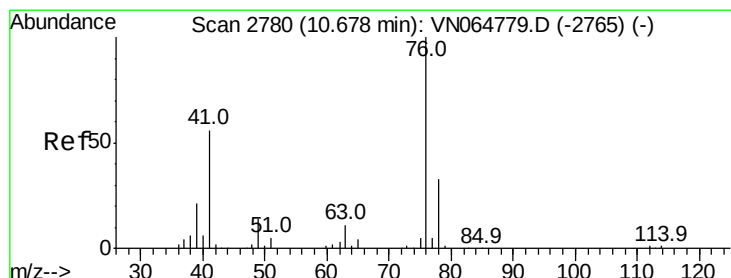
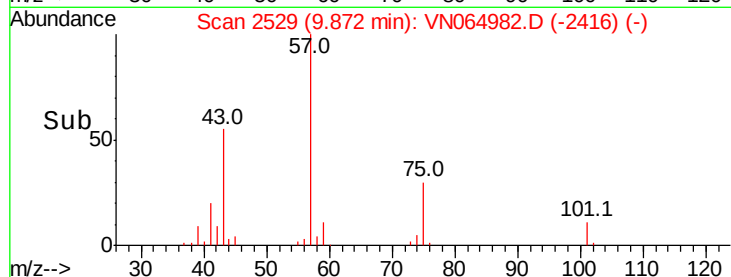
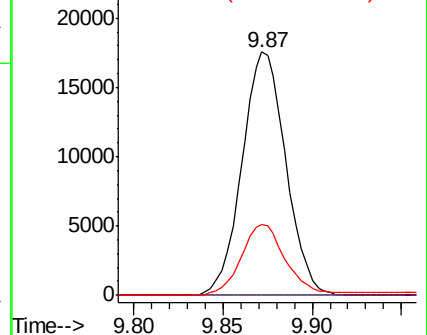
39 29.1 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 4.932 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064982.D

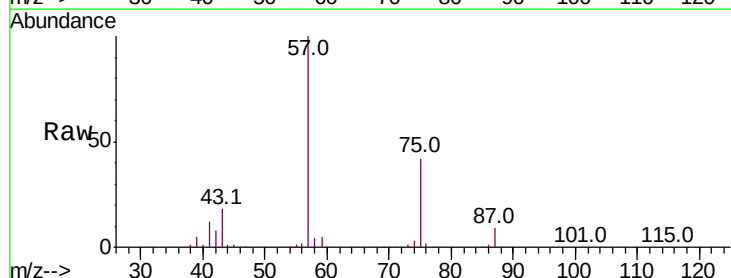
Acq: 8 Dec 2020 20:14

Tgt Ion: 76 Resp: 19000

Ion Ratio Lower Upper

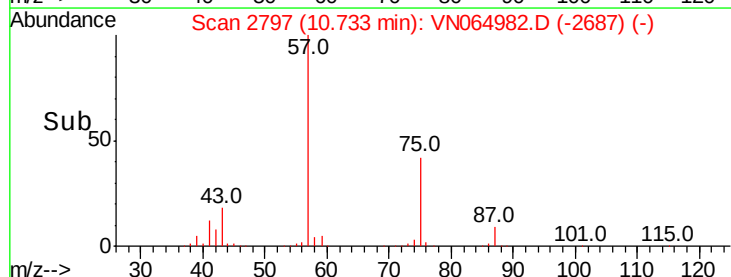
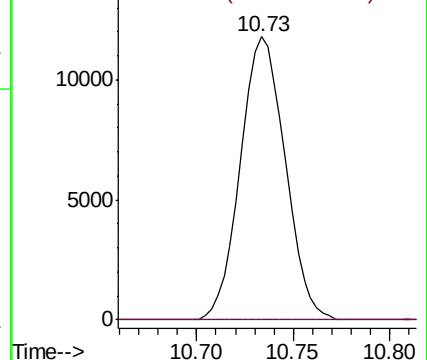
76 100

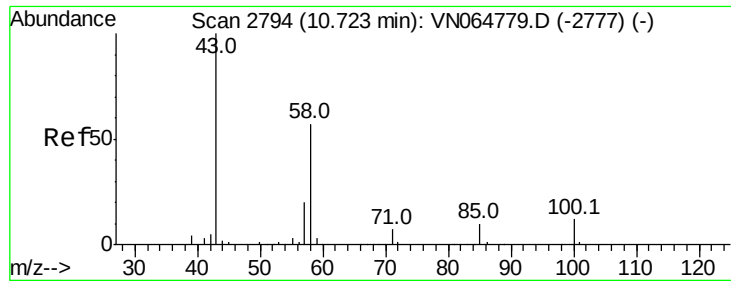
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

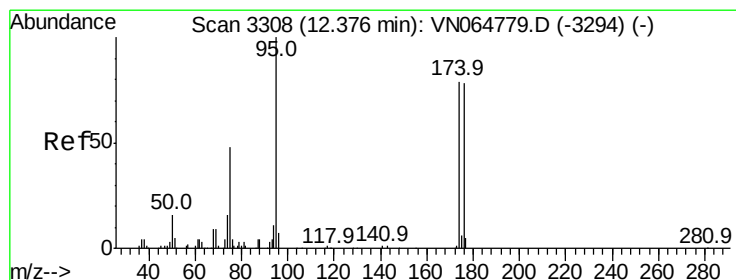
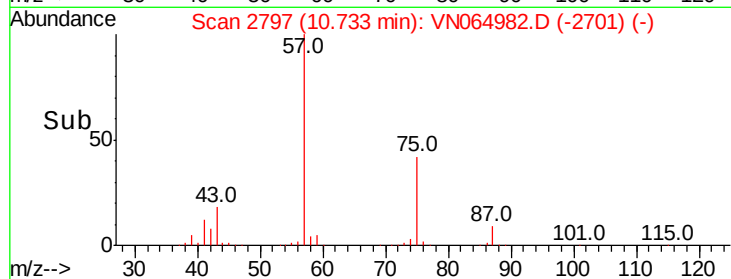
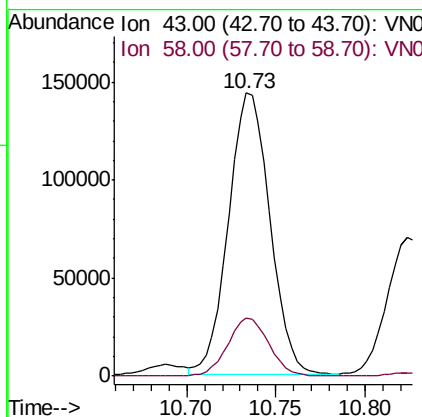
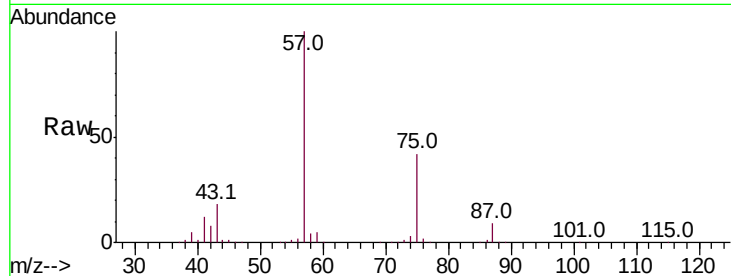




#59
2-Hexanone
Concen: 116.134 ug/l
RT: 10.73 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN064982.D
Acq: 8 Dec 2020 20:14

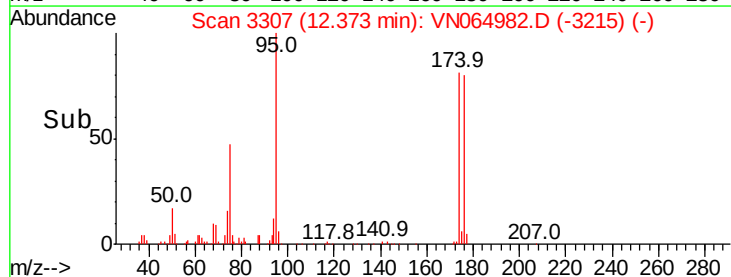
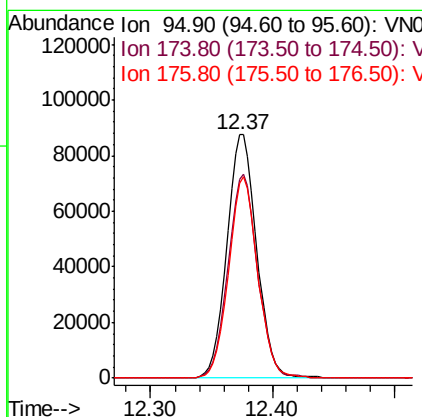
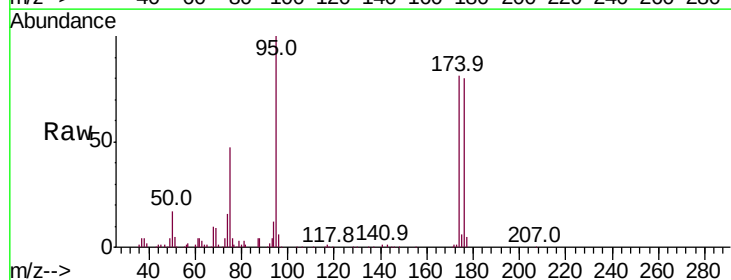
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#19

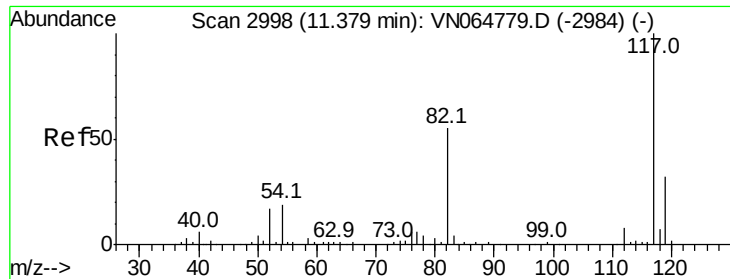
Tot Ion: 43 Resp: 234048
Ion Ratio Lower Upper
43 100
58 20.5 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 52.658 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN064982.D
Acq: 8 Dec 2020 20:14

Tgt Ion: 95 Resp: 149586
Ion Ratio Lower Upper
95 100
174 82.8 0.0 160.4
176 80.4 0.0 158.4

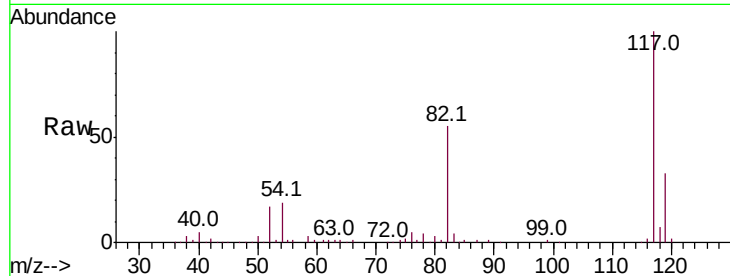




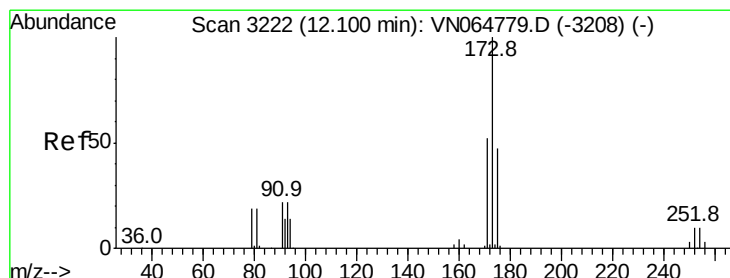
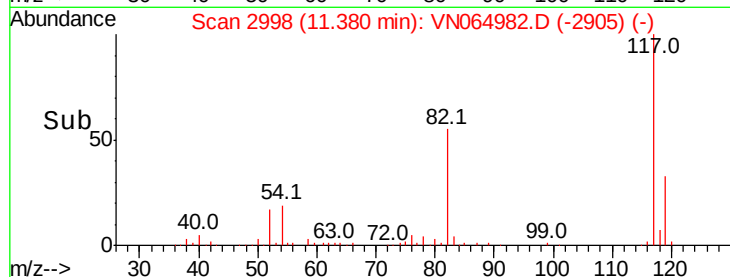
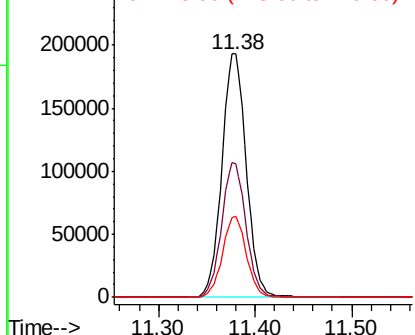
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064982.D
Acq: 8 Dec 2020 20:14

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#19

Tot Ion:117 Resp: 337882
Ion Ratio Lower Upper
117 100
82 54.6 44.2 66.2
119 33.0 25.8 38.6

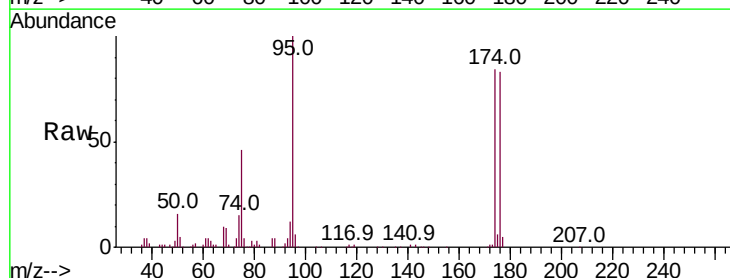


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

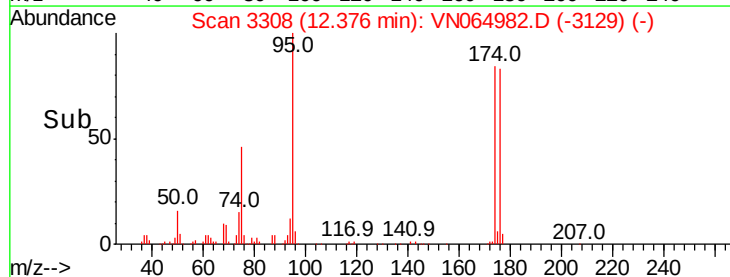
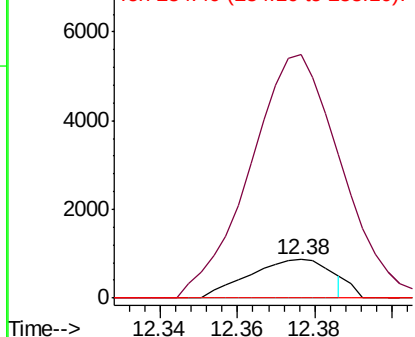


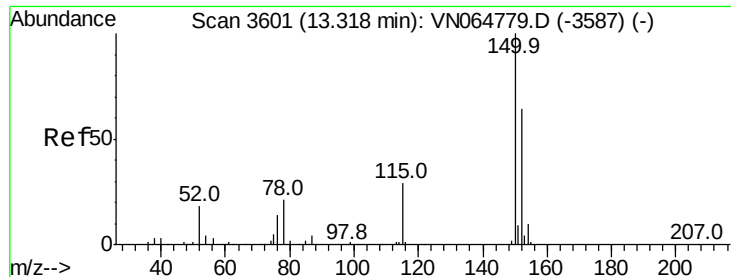
#71
Bromoform
Concen: 0.596 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN064982.D
Acq: 8 Dec 2020 20:14

Tgt Ion:173 Resp: 1270
Ion Ratio Lower Upper
173 100
175 615.4 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

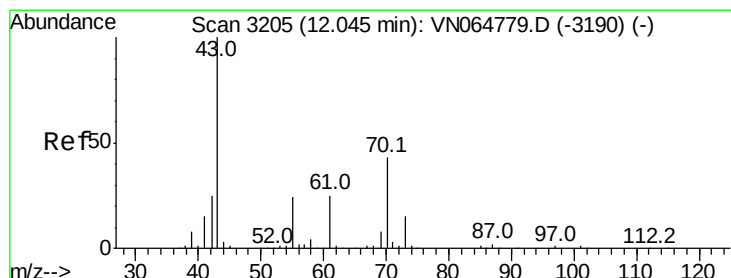
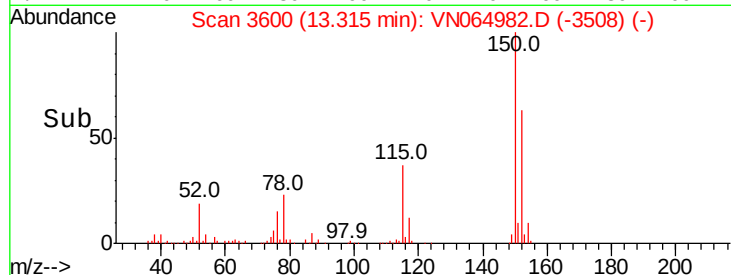
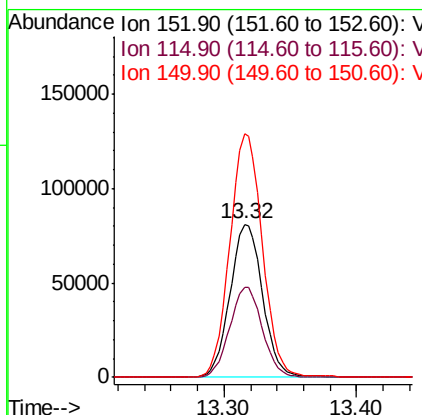
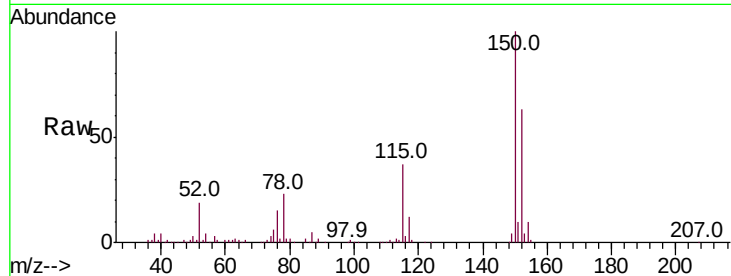




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3600
 Delta R.T. -0.00 min
 Lab File: VN064982.D
 Acq: 8 Dec 2020 20:14

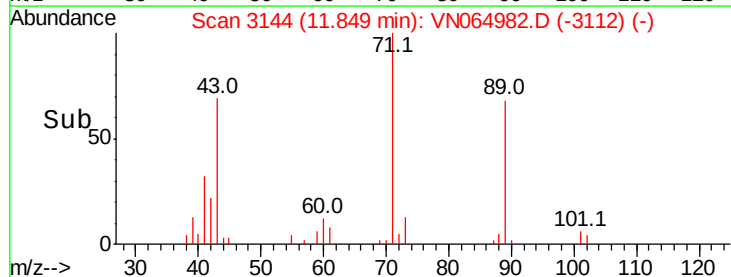
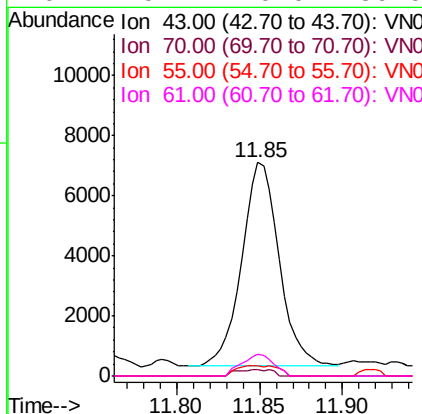
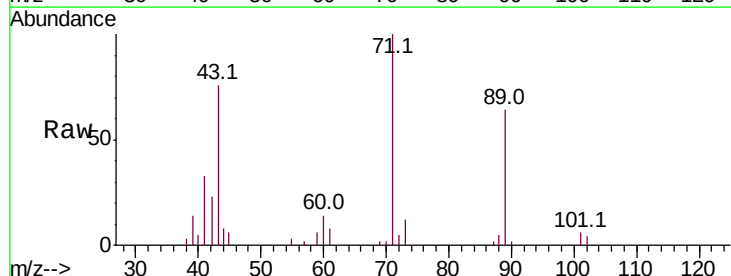
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#19

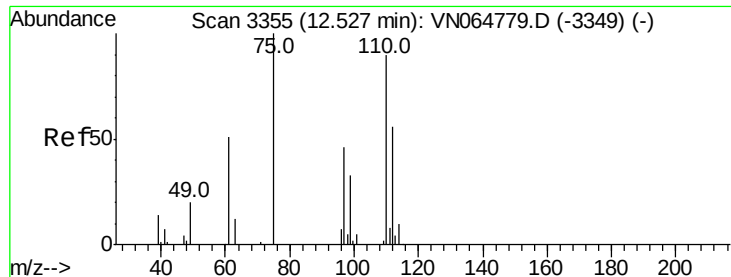
Tot Ion:152 Resp: 138114
 Ion Ratio Lower Upper
 152 100
 115 59.1 29.7 89.1
 150 159.3 0.0 350.6



#74
 N-ethyl acetate
 Concen: 2.815 ug/l
 RT: 11.85 min Scan# 3144
 Delta R.T. -0.20 min
 Lab File: VN064982.D
 Acq: 8 Dec 2020 20:14

Tgt Ion: 43 Resp: 10642
 Ion Ratio Lower Upper
 43 100
 70 3.1 34.5 51.7#
 55 5.7 20.4 30.6#
 61 9.1 20.0 30.0#

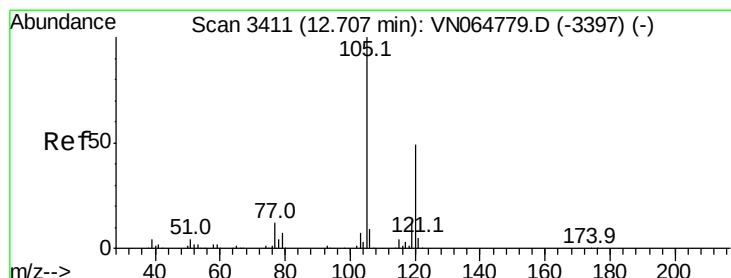
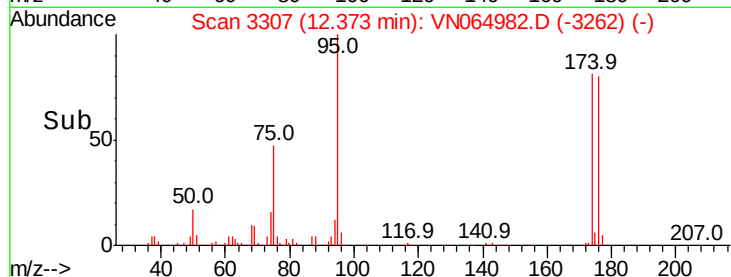
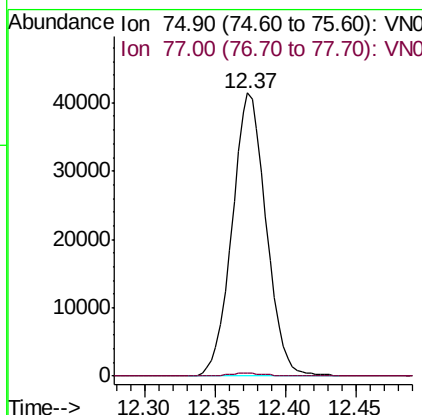
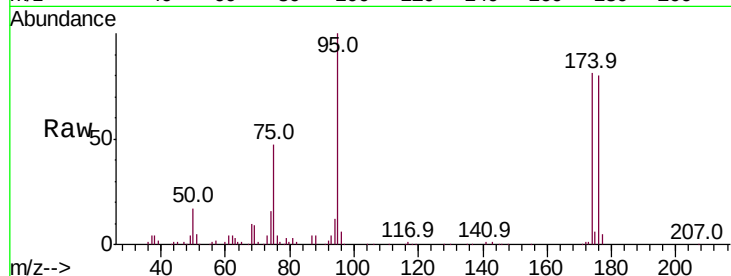




#76
 1,2,3-Trichloropropane
 Concen: 23.508 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN064982.D
 Acq: 8 Dec 2020 20:14

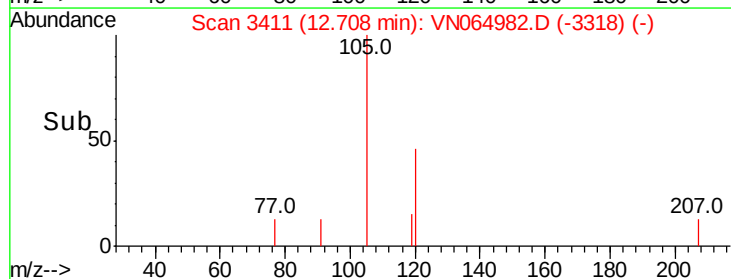
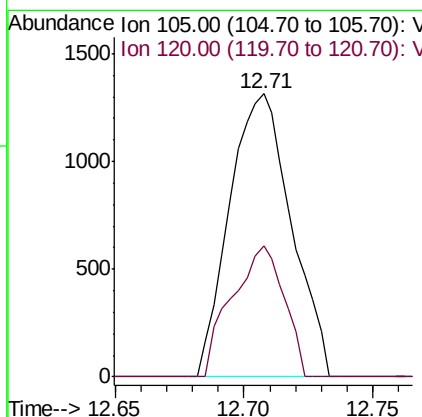
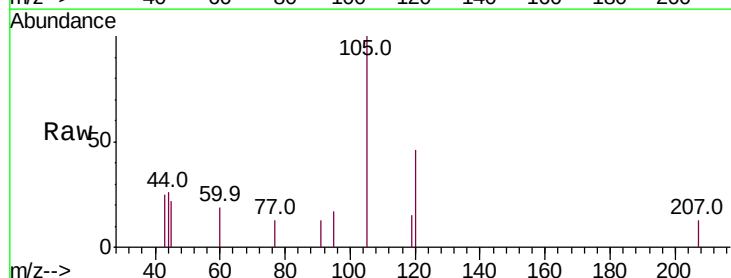
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#19

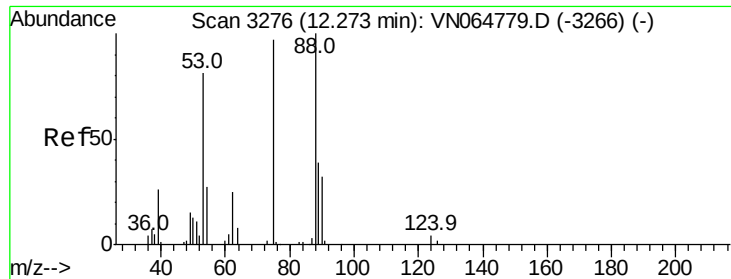
Tot Ion: 75 Resp: 69921
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.275 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN064982.D
 Acq: 8 Dec 2020 20:14

Tgt Ion: 105 Resp: 2193
 Ion Ratio Lower Upper
 105 100
 120 39.3 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 64.429 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064982.D

Acq: 8 Dec 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#19

Tot Ion: 75 Resp: 69921

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

