

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064973.D
 Acq On : 8 Dec 2020 16:37
 Operator : JC/MD
 Sample : PB133456ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#10

Quant Time: Dec 09 06:53:10 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	172218	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	326851	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	342587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	140275	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	108742	54.31	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	108.62%		
35) Dibromofluoromethane	7.55	113	100340	51.30	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	102.60%		
50) Toluene-d8	10.06	98	416402	52.11	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	104.22%		
62) 4-Bromofluorobenzene	12.37	95	153861	53.80	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	107.60%		

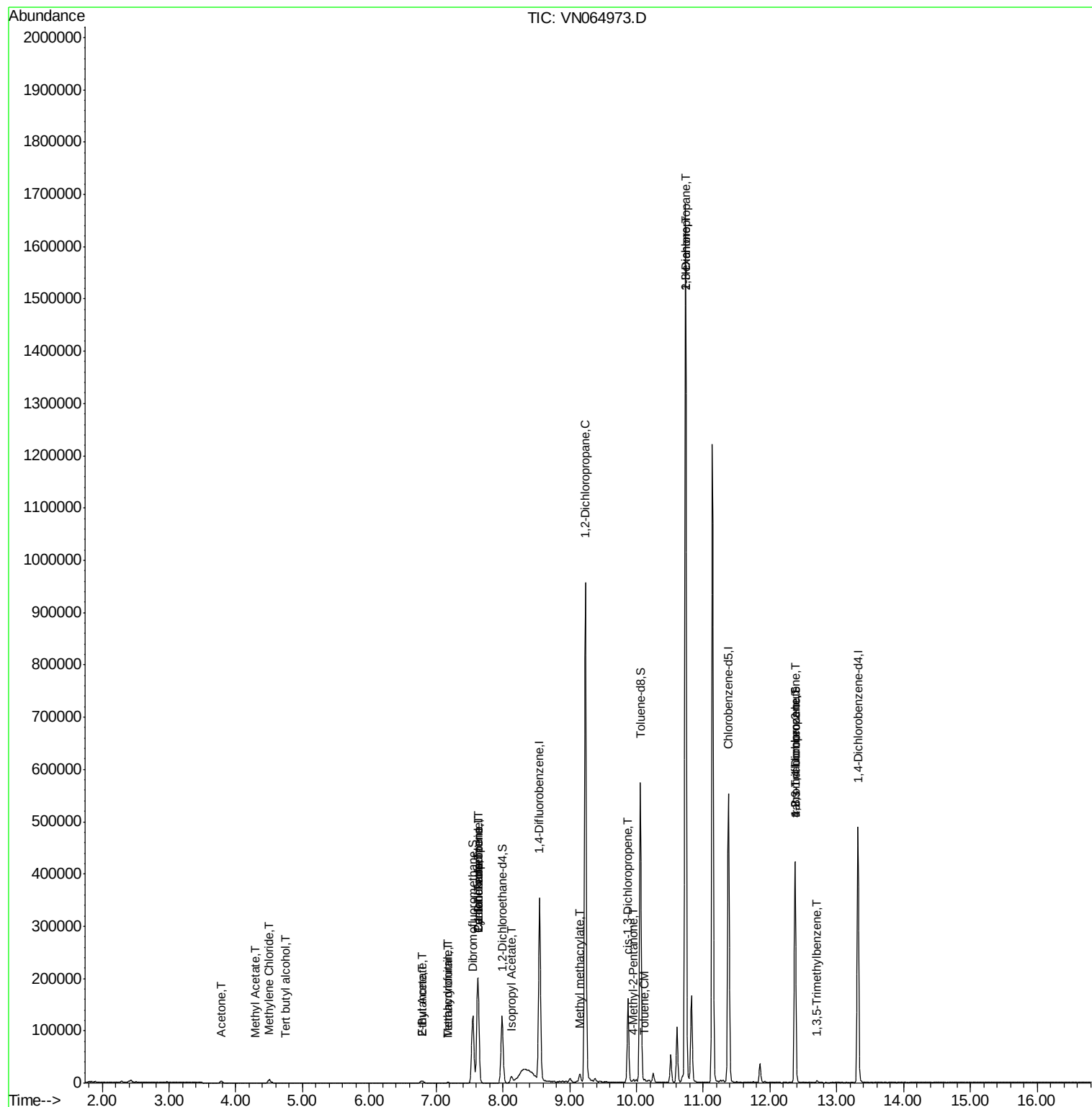
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	108	0.346	ug/l #	73
16) Acetone	3.78	43	6012	9.135	ug/l #	80
18) Methyl Acetate	4.29	43	870	0.440	ug/l #	50
20) Methylene Chloride	4.50	84	5258	2.549	ug/l	95
25) 2-Butanone	6.80	43	2481	2.325	ug/l	99
29) Tetrahydrofuran	7.18	42	1286	1.746	ug/l #	58
31) Cyclohexane	7.62	56	2894	1.037	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	12145	4.009	ug/l #	50
37) Ethyl Acetate	6.80	43	2481	0.850	ug/l #	66
38) Carbon Tetrachloride	7.62	117	16070	5.098	ug/l #	16
41) Methacrylonitrile	7.17	41	471	0.350	ug/l #	13
43) Isopropyl Acetate	8.13	43	18385	3.915	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1031	0.429	ug/l #	43
48) Methyl methacrylate	9.14	41	4134	1.842	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3714	1.317	ug/l	97
52) Toluene	10.12	92	1537	0.269	ug/l	91
54) cis-1,3-Dichloropropene	9.87	75	29875	7.743	ug/l #	61
57) 1,3-Dichloropropane	10.73	76	17465	4.503	ug/l #	42
59) 2-Hexanone	10.74	43	229218	112.976	ug/l #	50
76) 1,2,3-Trichloropropane	12.37	75	71143	23.550	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2136	0.263	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.37	75	71143	64.545	ug/l #	15

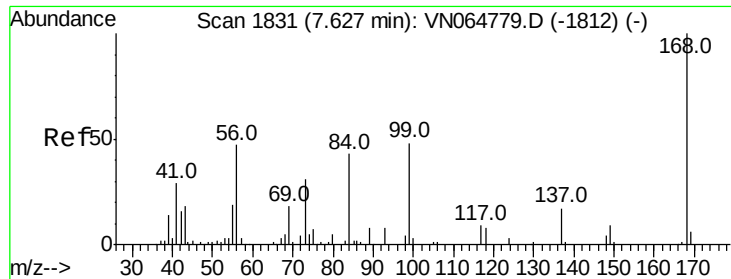
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

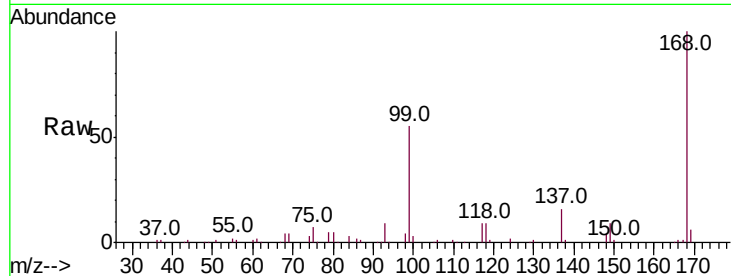
PB133456ZHE#10

Tot Ion:168 Resp: 172218

Ion Ratio Lower Upper

168 100

99 54.7 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

80000

60000

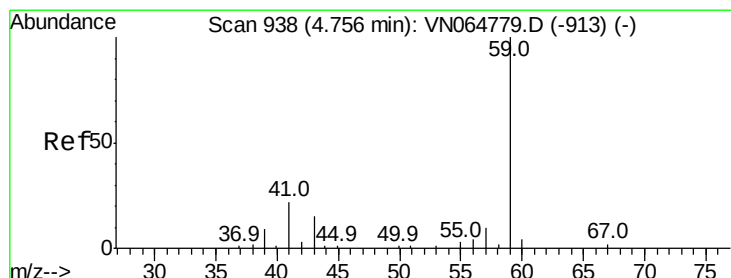
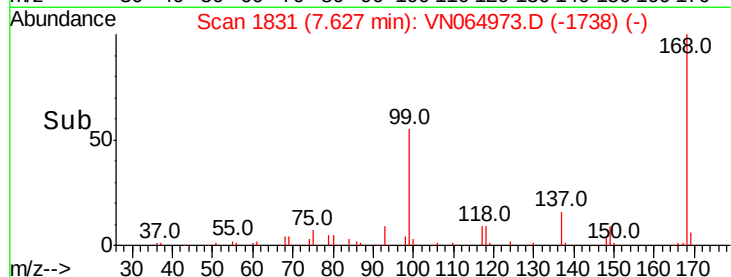
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#11

Tert butyl alcohol

Concen: 0.346 ug/l

RT: 4.75 min Scan# 936

Delta R.T. -0.01 min

Lab File: VN064973.D

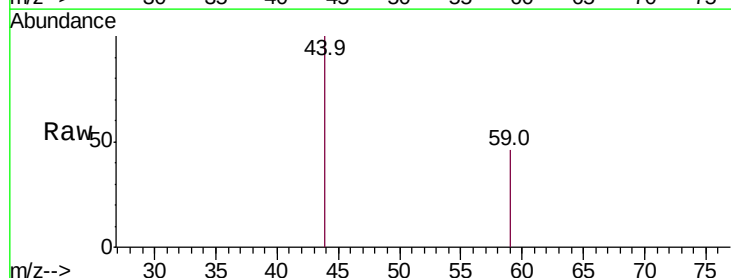
Acq: 8 Dec 2020 16:37

Tgt Ion: 59 Resp: 108

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.75

200

150

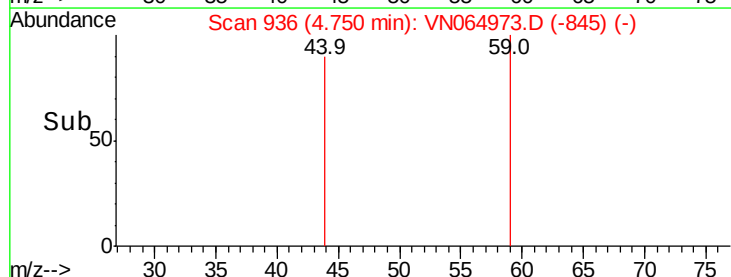
100

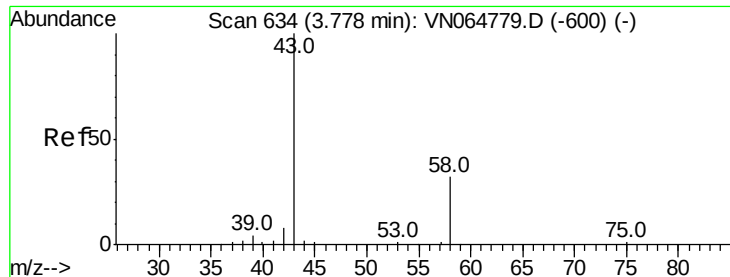
50

0

Time-->

4.74 4.75 4.76





#16

Acetone

Concen: 9.135 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

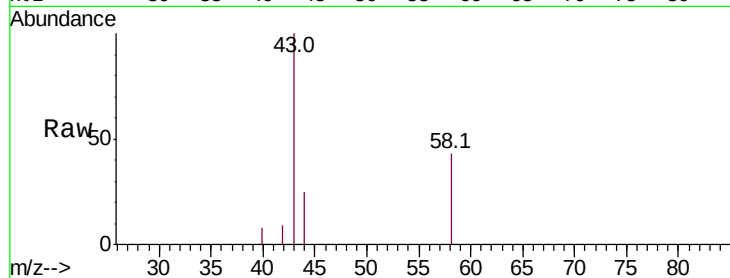
PB133456ZHE#10

Tot Ion: 43 Resp: 6012

Ion Ratio Lower Upper

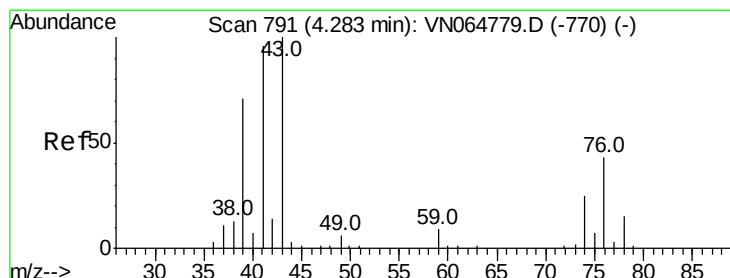
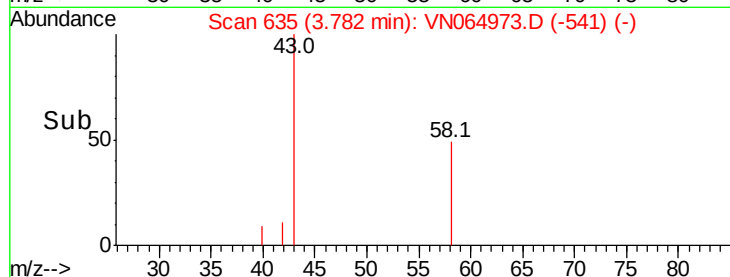
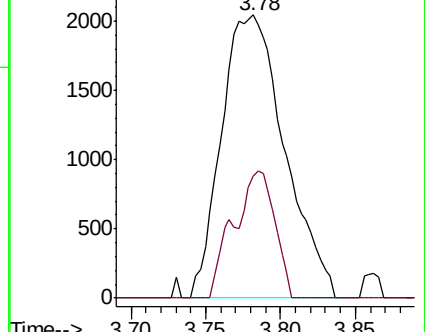
43 100

58 43.3 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VN064973.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN064973.D (-541) (-)



#18

Methyl Acetate

Concen: 0.440 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN064973.D

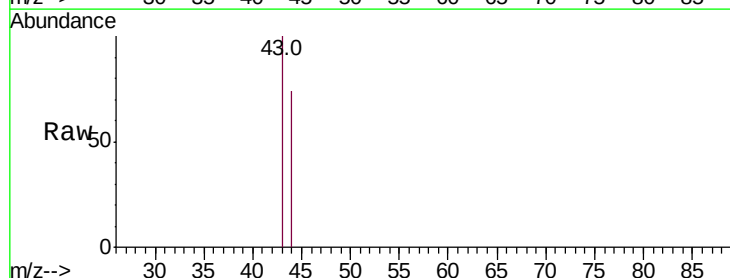
Acq: 8 Dec 2020 16:37

Tgt Ion: 43 Resp: 870

Ion Ratio Lower Upper

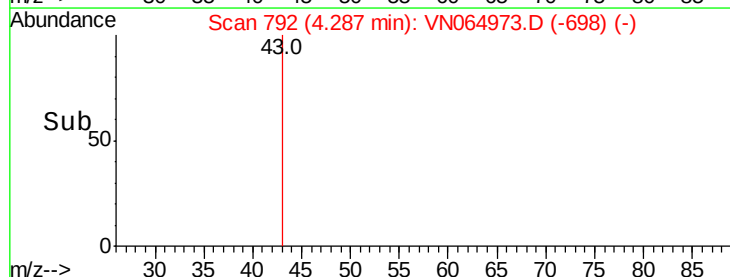
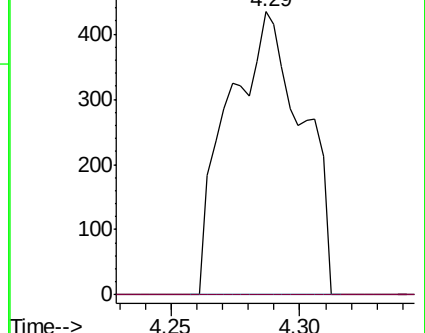
43 100

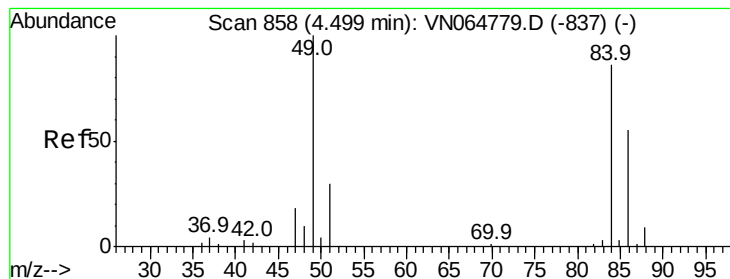
74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN064973.D (-698) (-)

Ion 74.00 (73.70 to 74.70): VN064973.D (-698) (-)





#20

Methvlene Chloride

Concen: 2.549 ug/l

RT: 4.50 min Scan# 858

Delta R.T. 0.00 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#10

Tot Ion: 84 Resp: 5258

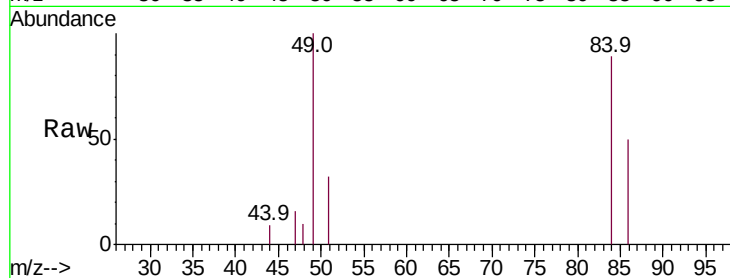
Ion Ratio Lower Upper

84 100

49 112.4 93.4 140.0

51 35.5 28.2 42.4

86 56.4 51.7 77.5

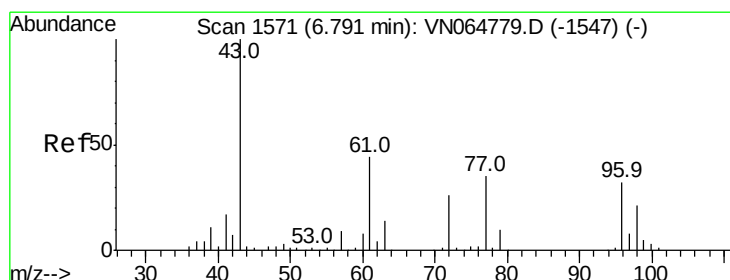
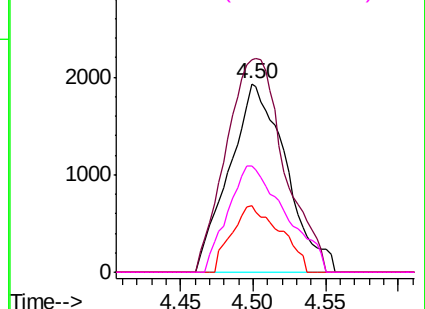
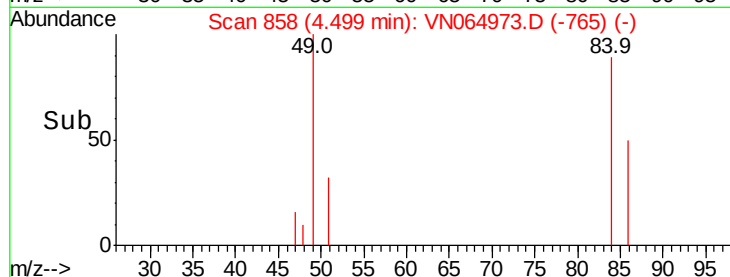


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.325 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN064973.D

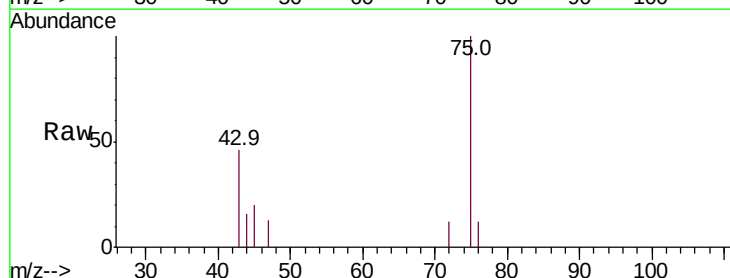
Acq: 8 Dec 2020 16:37

Tgt Ion: 43 Resp: 2481

Ion Ratio Lower Upper

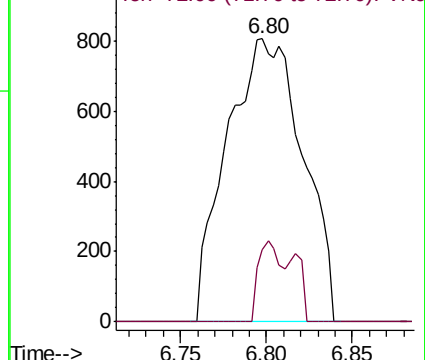
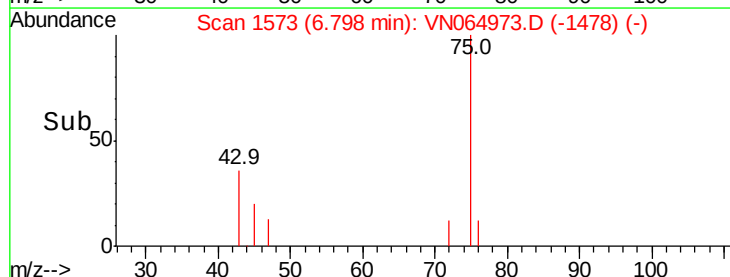
43 100

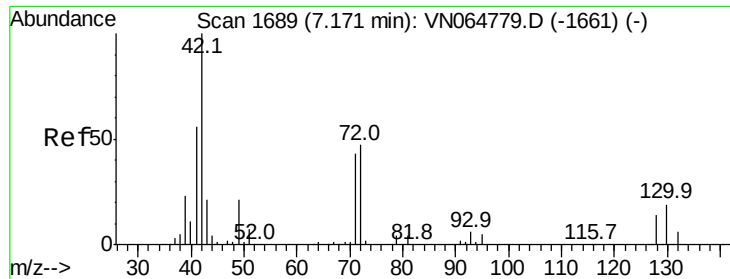
72 25.7 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 1.746 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#10

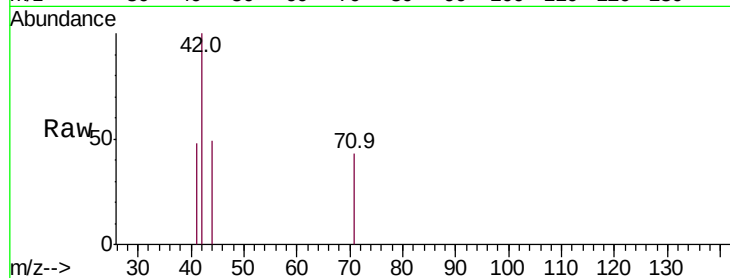
Tot Ion: 42 Resp: 1286

Ion Ratio Lower Upper

42 100

72 18.4 36.6 54.8#

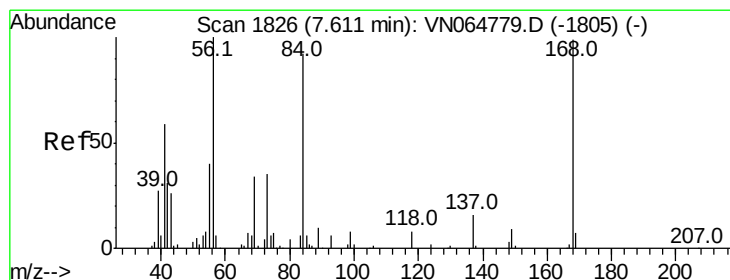
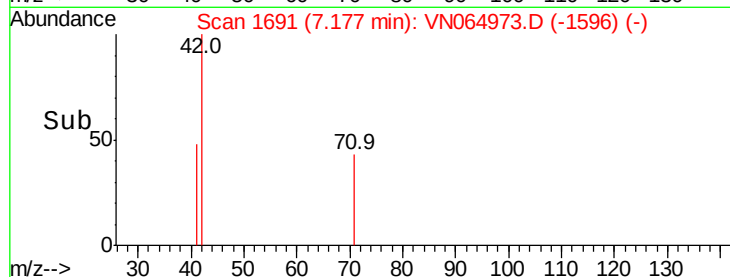
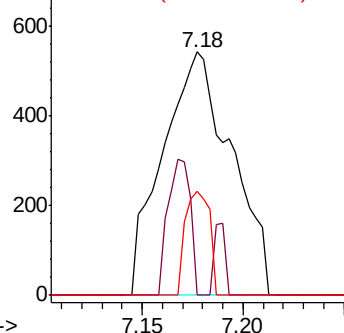
71 15.2 33.6 50.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.037 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

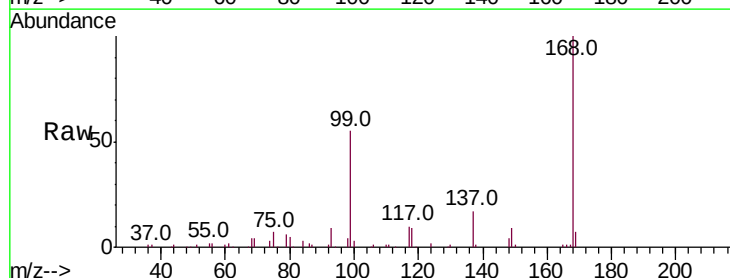
Tgt Ion: 56 Resp: 2894

Ion Ratio Lower Upper

56 100

69 190.9 27.5 41.3#

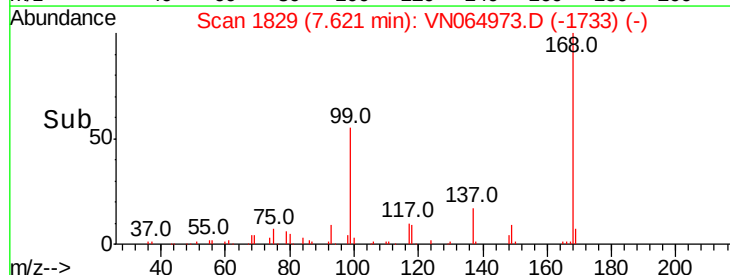
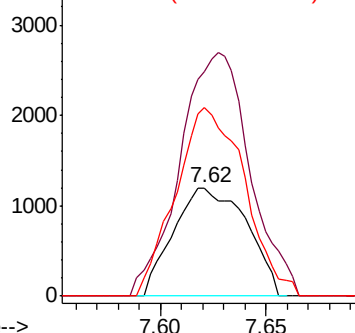
84 174.0 73.9 110.9#

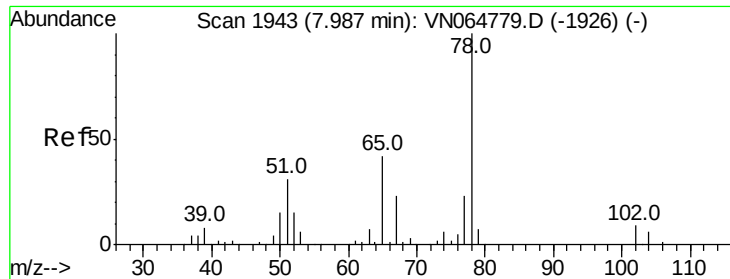


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 54.313 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

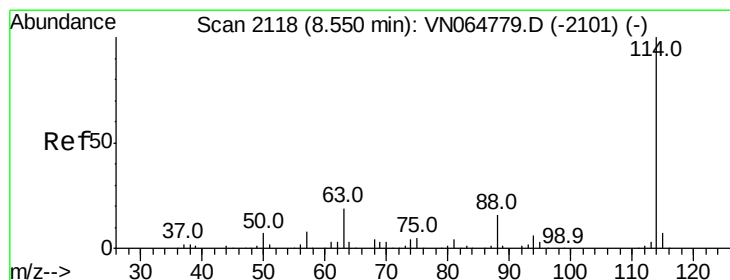
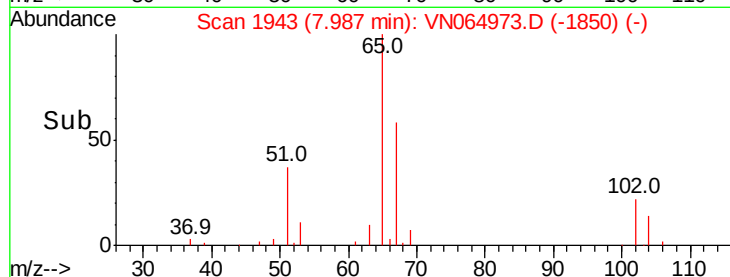
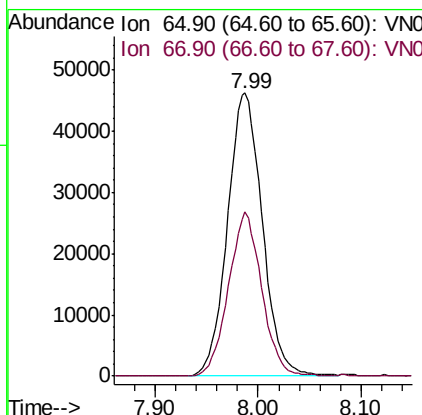
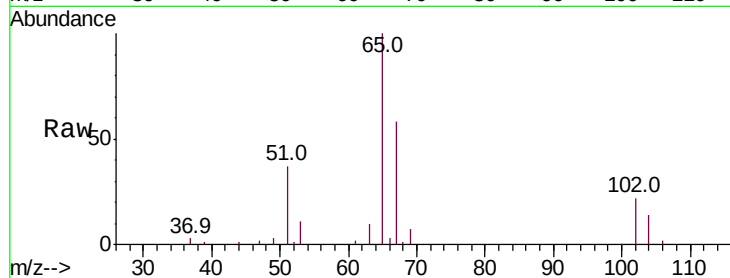
Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

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Tot Ion: 65 Resp: 108742

Ion	Ratio	Lower	Upper
65	100		
67	55.1	0.0	108.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

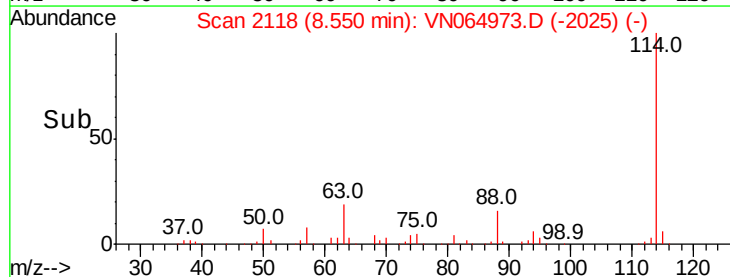
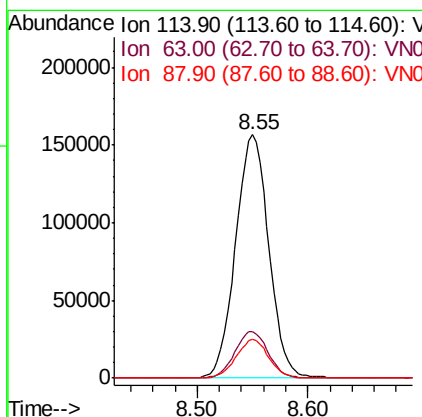
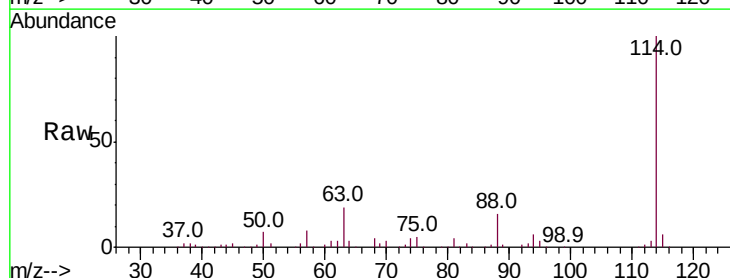
Delta R.T. 0.00 min

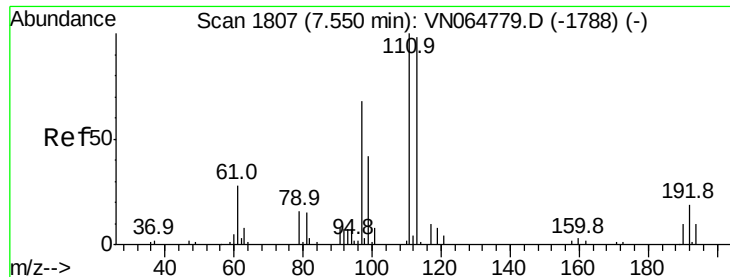
Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Tgt Ion: 114 Resp: 326851

Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.6
88	15.7	0.0	32.6





#35

Dibromofluoromethane

Concen: 51.305 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#10

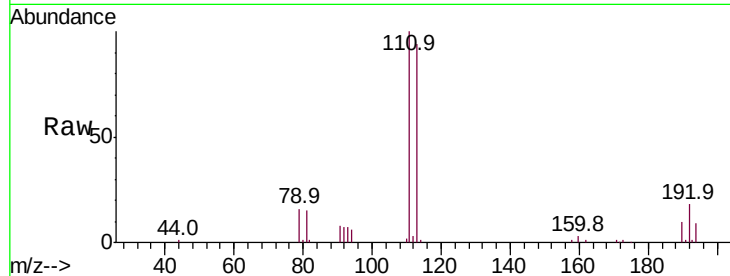
Tot Ion:113 Resp: 100340

Ion Ratio Lower Upper

113 100

111 105.2 81.6 122.4

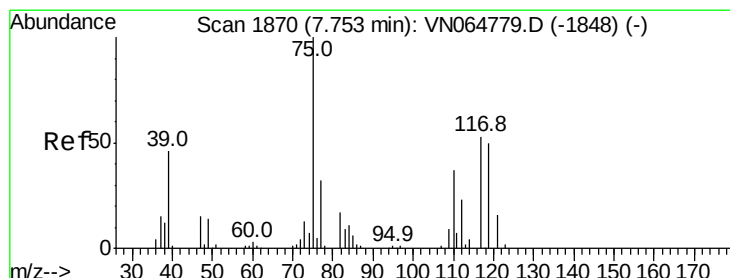
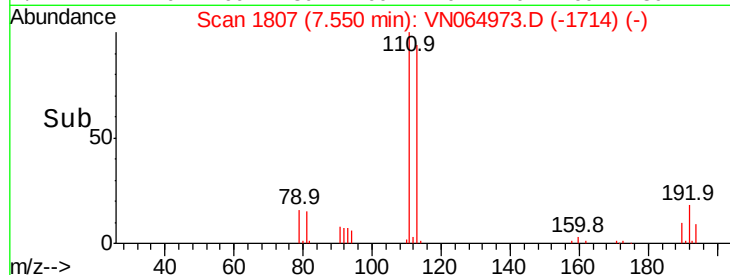
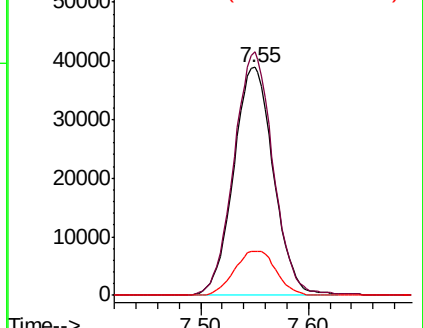
192 20.2 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.009 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

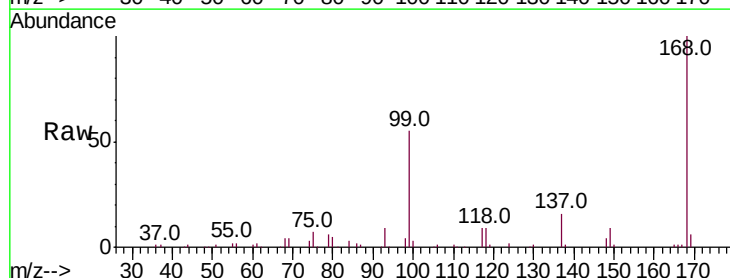
Tgt Ion: 75 Resp: 12145

Ion Ratio Lower Upper

75 100

110 9.7 17.8 53.3#

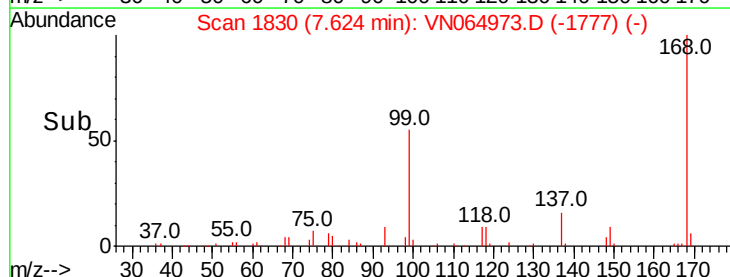
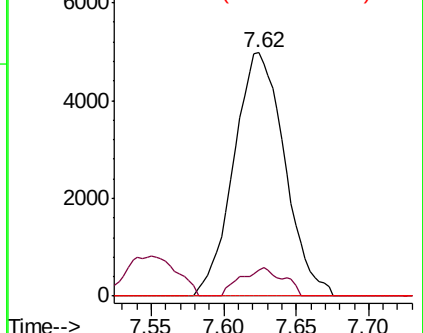
77 0.0 25.0 37.4#

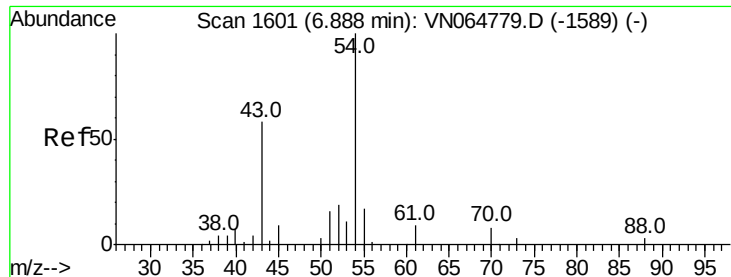


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

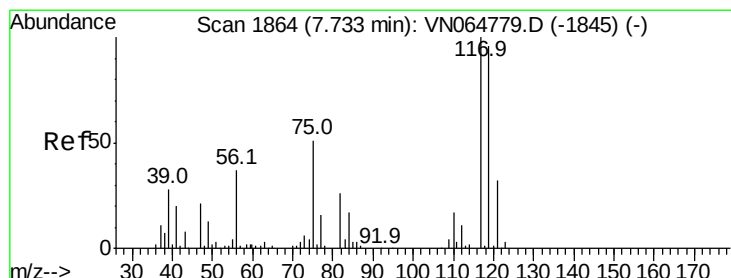
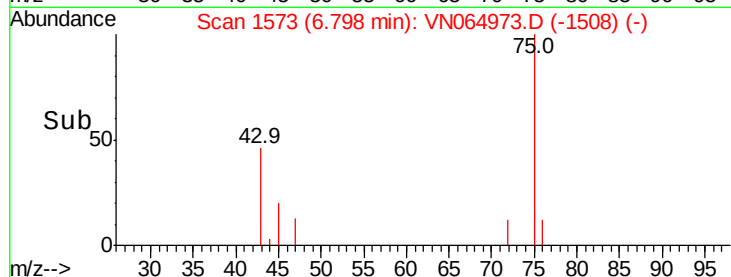
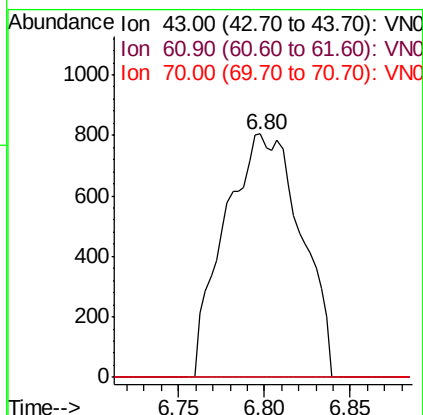
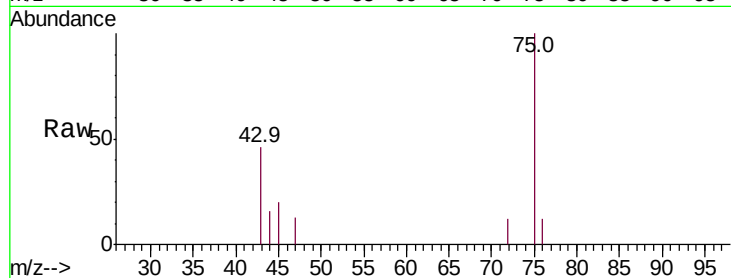




#37
Ethyl Acetate
Concen: 0.850 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. -0.09 min
Lab File: VN064973.D
Acq: 8 Dec 2020 16:37

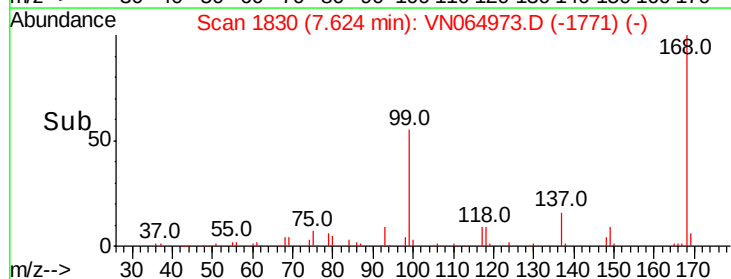
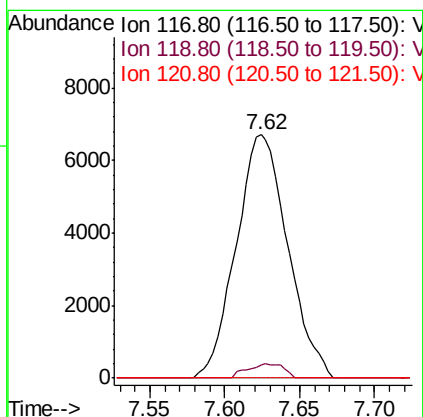
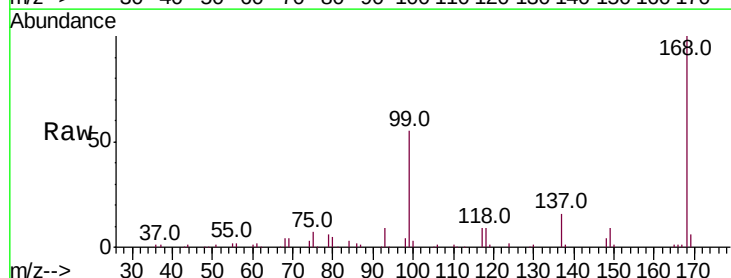
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#10

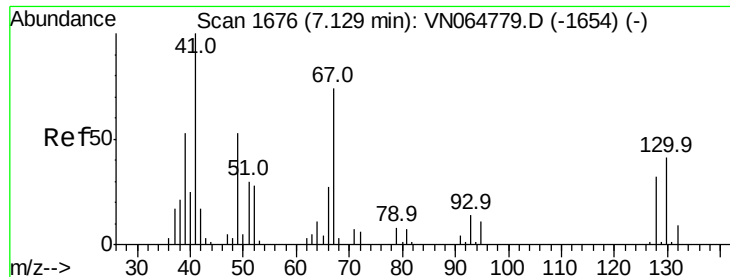
Tot Ion: 43 Resp: 2481
Ion Ratio Lower Upper
43 100
61 0.0 12.8 19.2#
70 0.0 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 5.098 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN064973.D
Acq: 8 Dec 2020 16:37

Tgt Ion: 117 Resp: 16070
Ion Ratio Lower Upper
117 100
119 5.5 76.7 115.1#
121 0.0 25.4 38.2#





#41

Methacrylonitrile

Concen: 0.350 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.04 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#10

Tot Ion: 41 Resp: 471

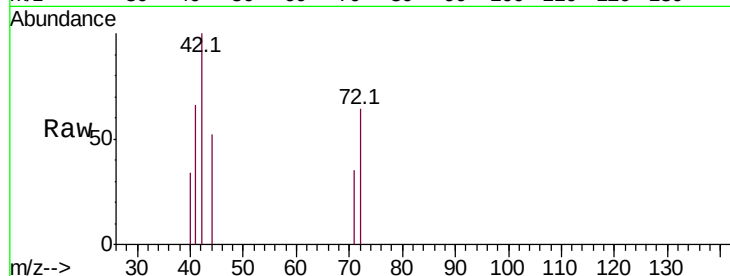
Ion Ratio Lower Upper

41 100

39 0.0 51.0 76.6#

67 0.0 79.8 119.8#

52 0.0 31.5 47.3#

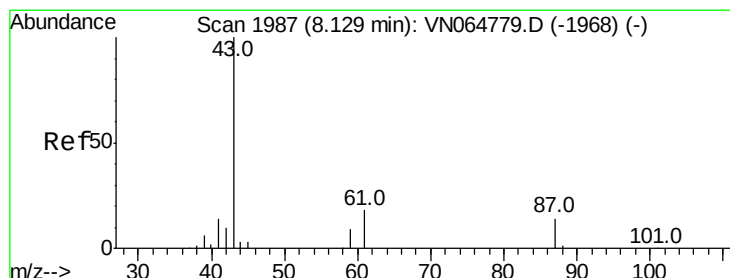
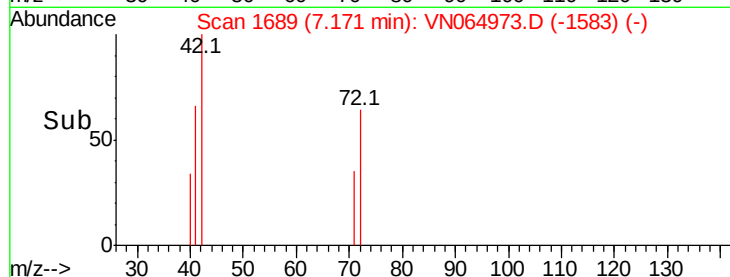
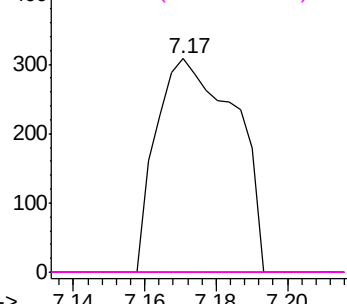


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#43

Isopropyl Acetate

Concen: 3.915 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

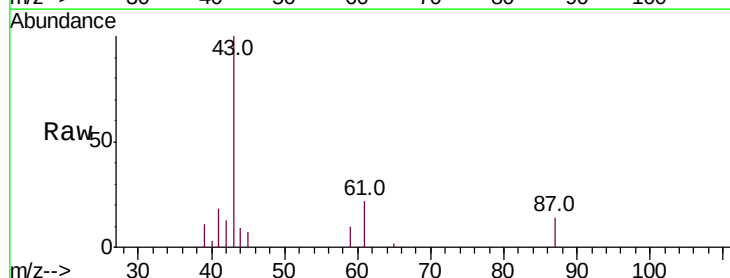
Tgt Ion: 43 Resp: 18385

Ion Ratio Lower Upper

43 100

61 17.2 17.2 25.8#

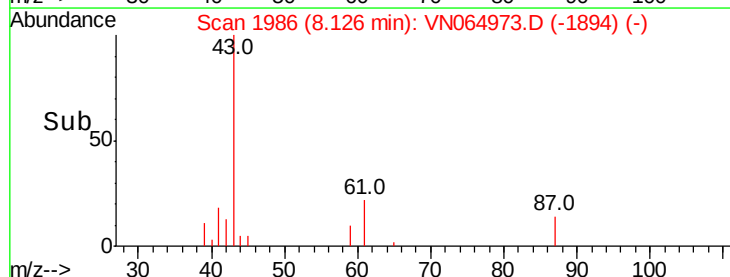
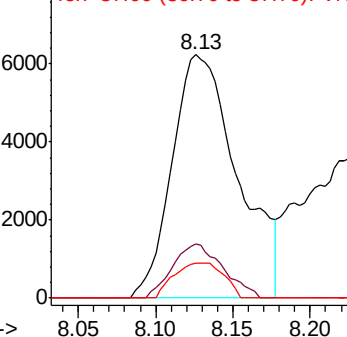
87 10.9 11.4 17.0#

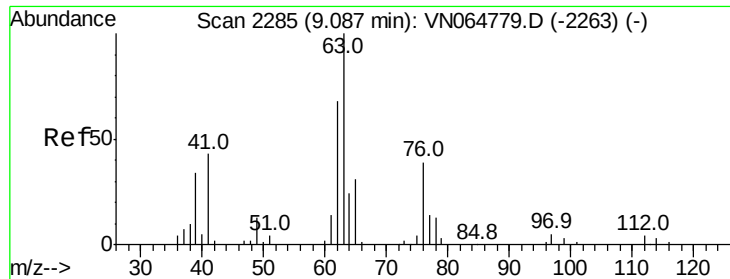


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

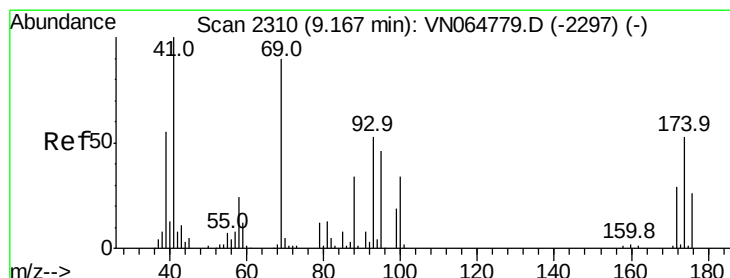
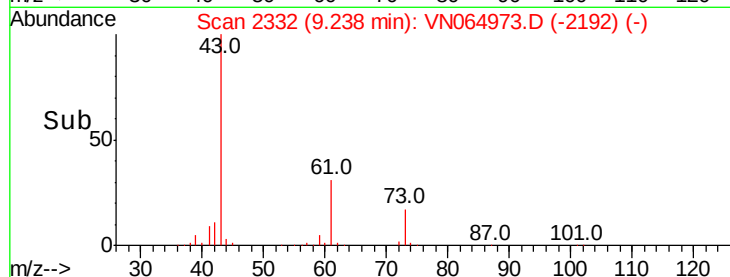
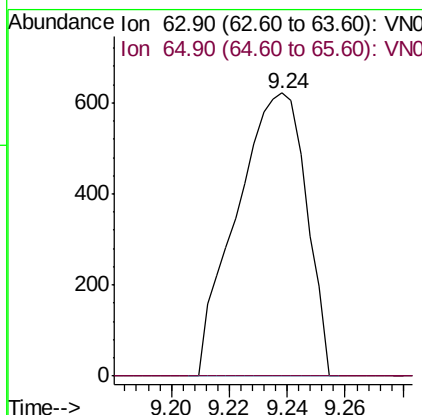
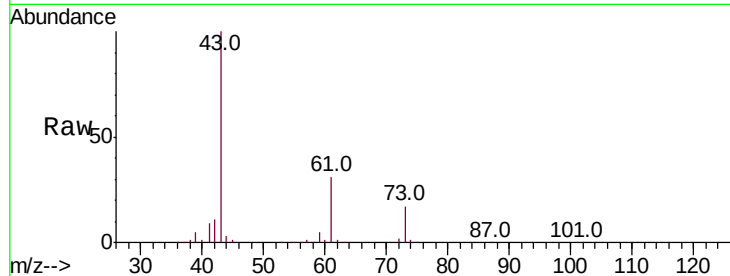




#45
 1,2-Dichloropropane
 Concen: 0.429 ug/l
 RT: 9.24 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN064973.D
 Acq: 8 Dec 2020 16:37

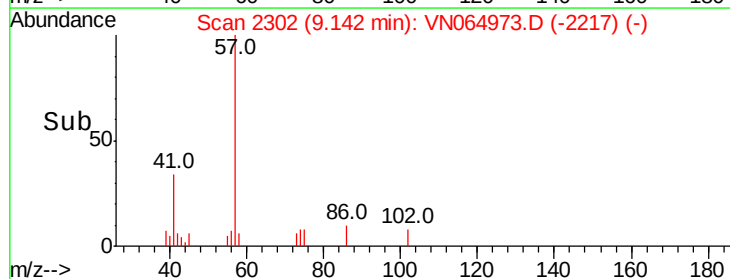
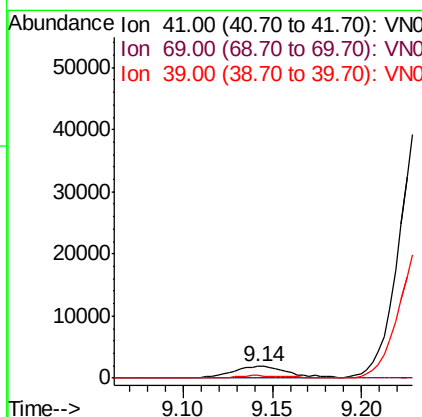
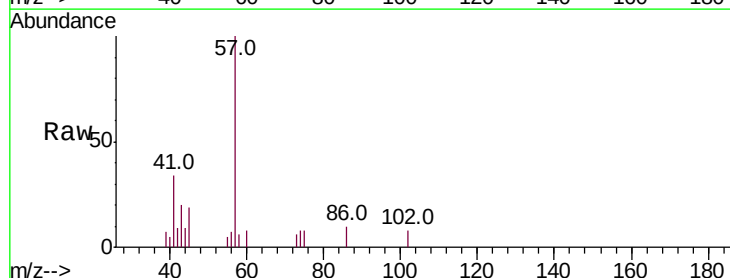
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#10

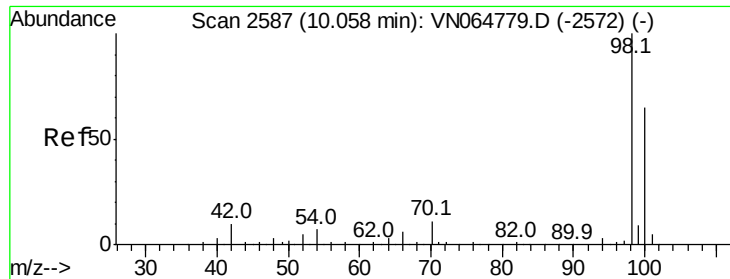
Tot Ion: 63 Resp: 1031
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.842 ug/l
 RT: 9.14 min Scan# 2302
 Delta R.T. -0.03 min
 Lab File: VN064973.D
 Acq: 8 Dec 2020 16:37

Tgt Ion: 41 Resp: 4134
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 52.108 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

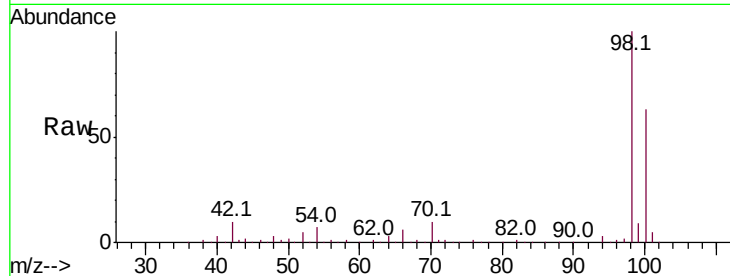
PB133456ZHE#10

Tot Ion: 98 Resp: 416402

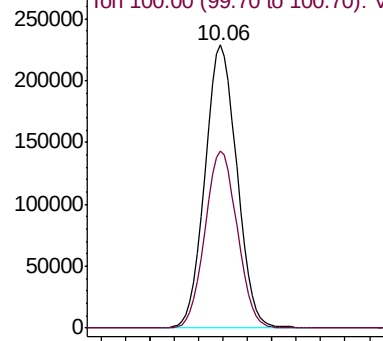
Ion Ratio Lower Upper

98 100

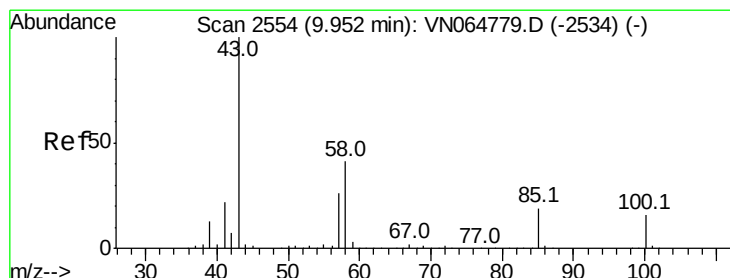
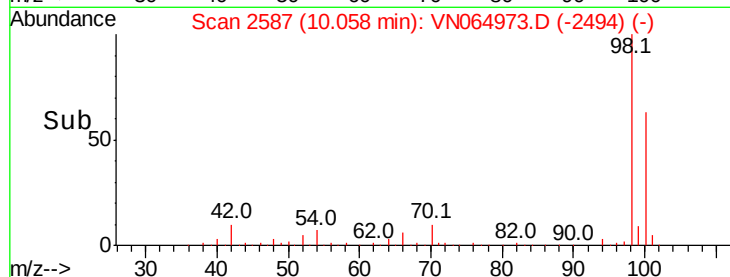
100 63.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.317 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064973.D

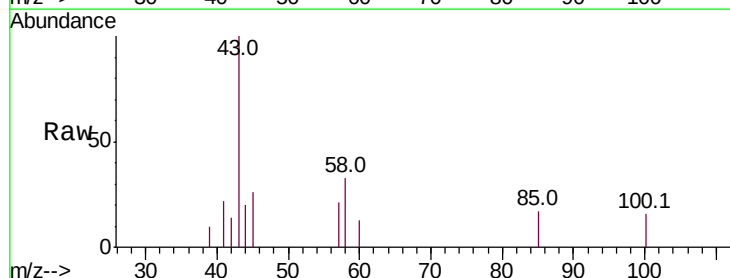
Acq: 8 Dec 2020 16:37

Tgt Ion: 43 Resp: 3714

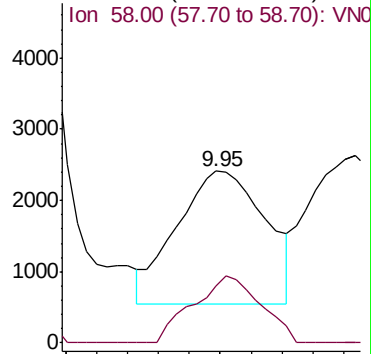
Ion Ratio Lower Upper

43 100

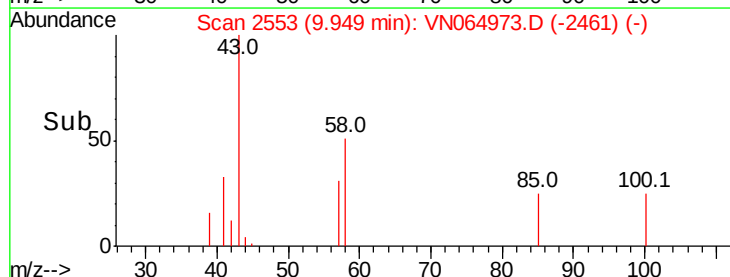
58 38.4 32.4 48.6

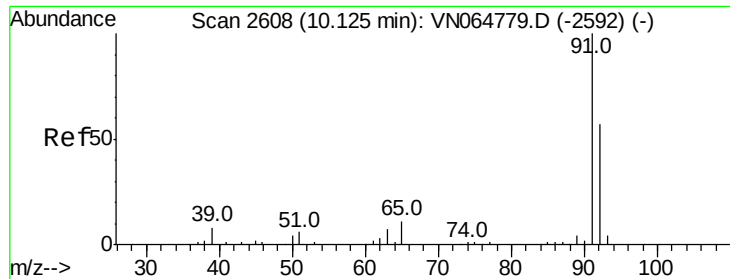


Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)



Time-->





#52

Toluene

Concen: 0.269 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

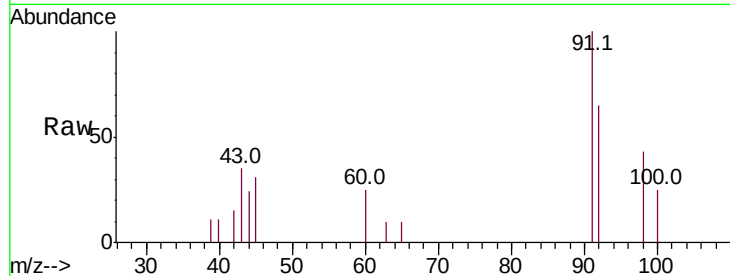
PB133456ZHE#10

Tot Ion: 92 Resp: 1537

Ion Ratio Lower Upper

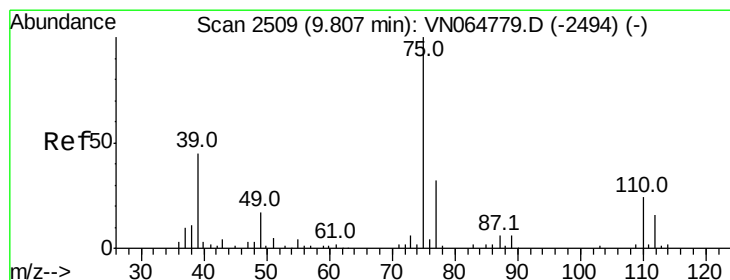
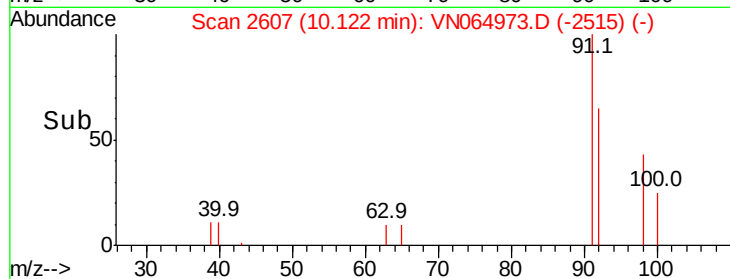
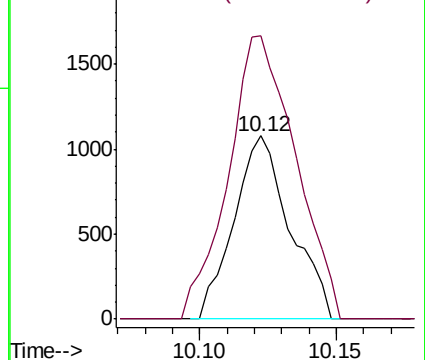
92 100

91 185.9 139.1 208.7



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: 7.743 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

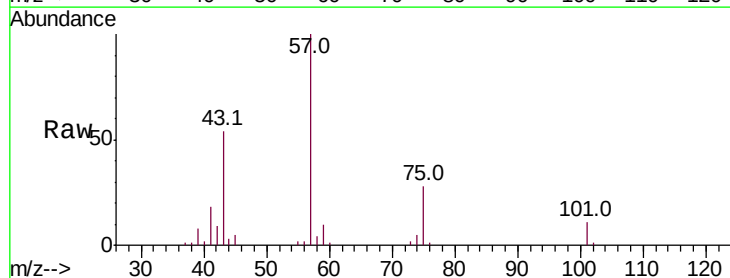
Tgt Ion: 75 Resp: 29875

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

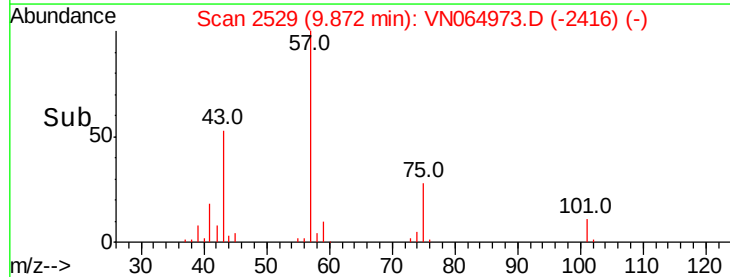
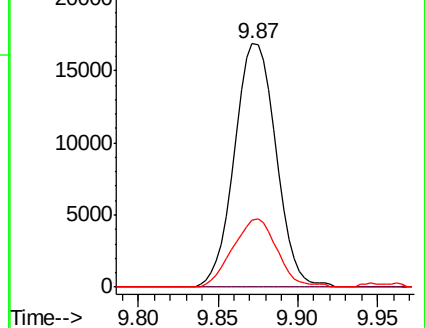
39 27.4 35.6 53.4#

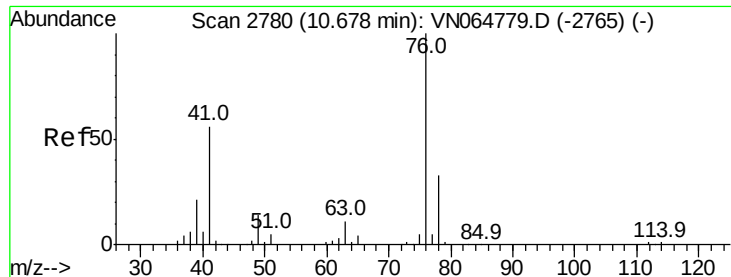


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

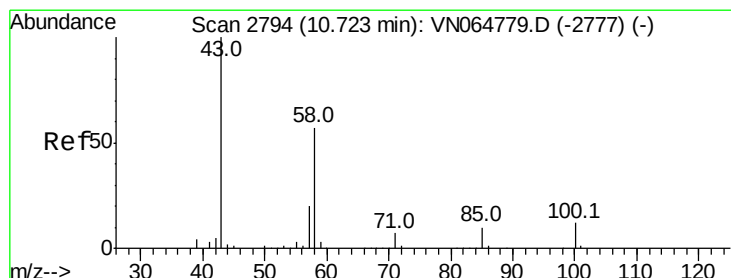
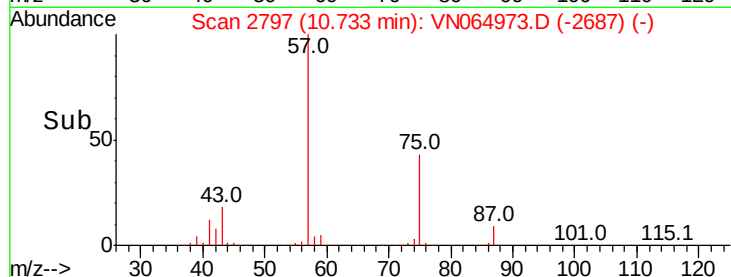
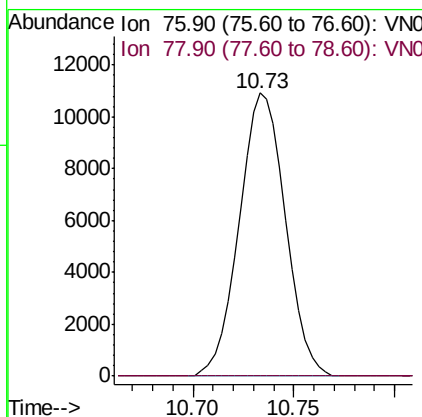
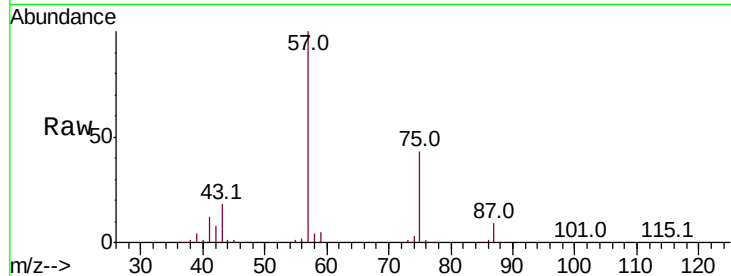




#57
 1,3-Dichloropropane
 Concen: 4.503 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064973.D
 Acq: 8 Dec 2020 16:37

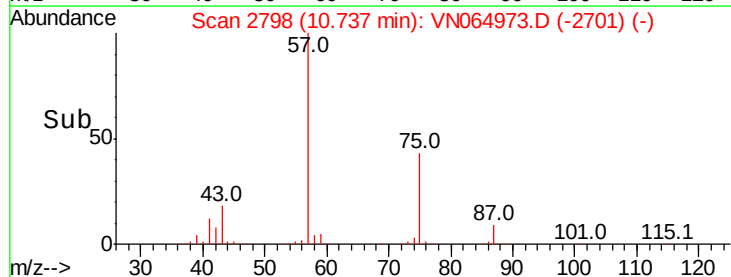
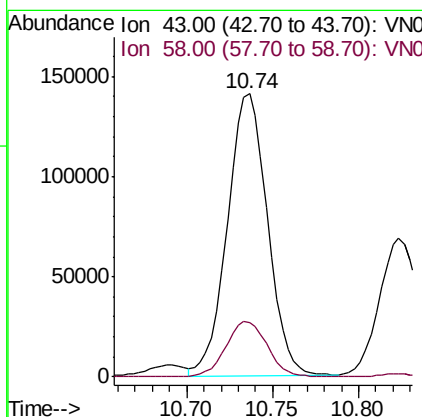
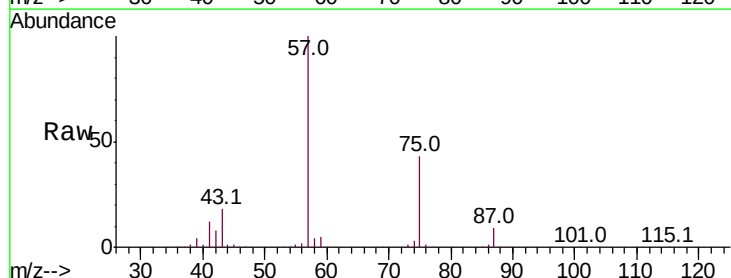
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#10

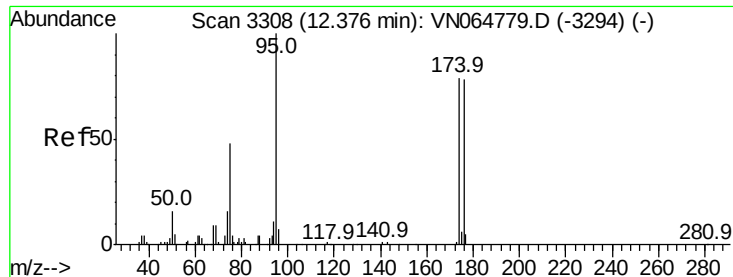
Tot Ion: 76 Resp: 17465
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#



#59
 2-Hexanone
 Concen: 112.976 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.01 min
 Lab File: VN064973.D
 Acq: 8 Dec 2020 16:37

Tgt Ion: 43 Resp: 229218
 Ion Ratio Lower Upper
 43 100
 58 20.2 28.3 84.9#

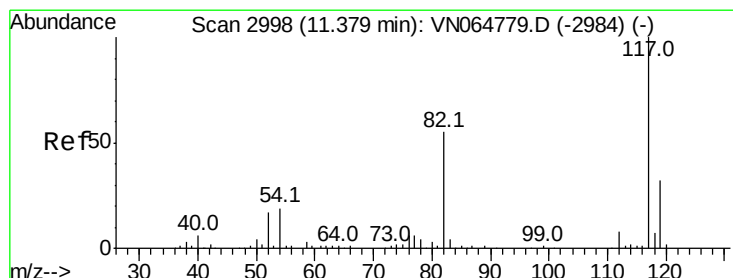
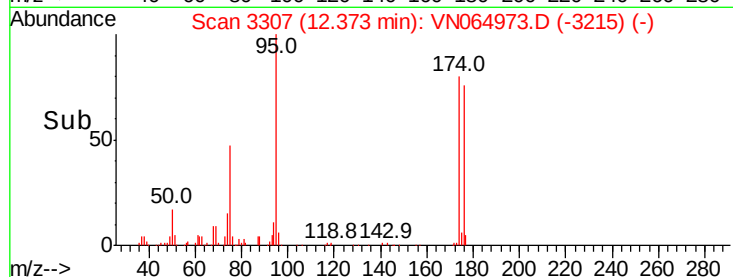
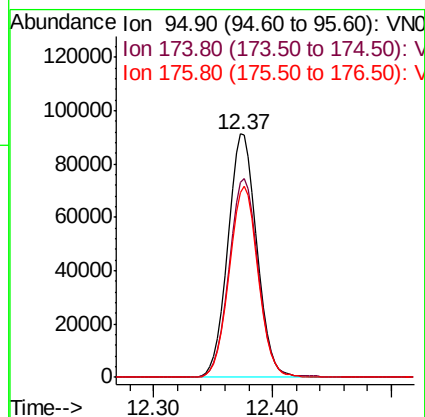
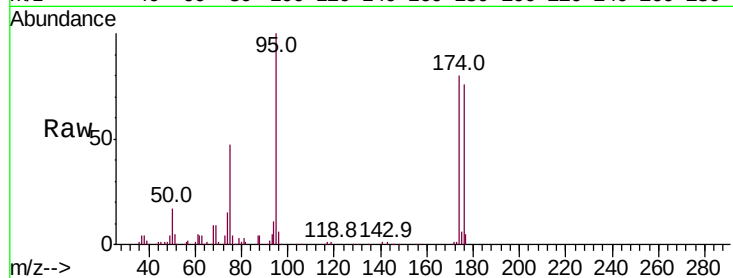




#62
4-Bromofluorobenzene
Concen: 53.800 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN064973.D
Acq: 8 Dec 2020 16:37

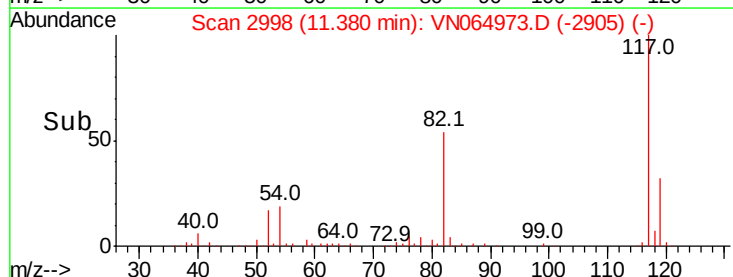
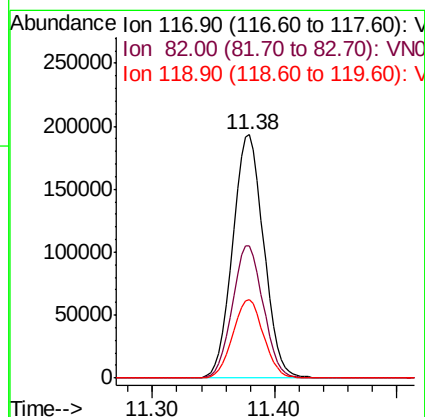
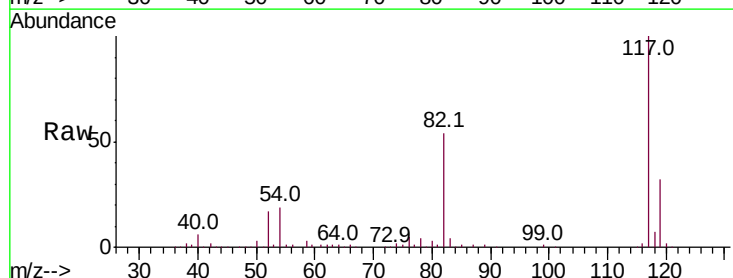
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#10

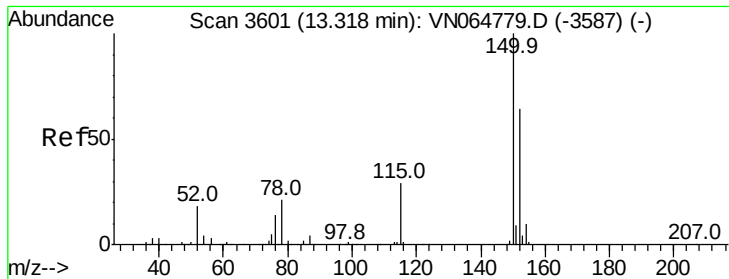
Tot Ion: 95 Resp: 153861
Ion Ratio Lower Upper
95 100
174 82.2 0.0 160.4
176 78.4 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064973.D
Acq: 8 Dec 2020 16:37

Tgt Ion: 117 Resp: 342587
Ion Ratio Lower Upper
117 100
82 54.3 44.2 66.2
119 32.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#10

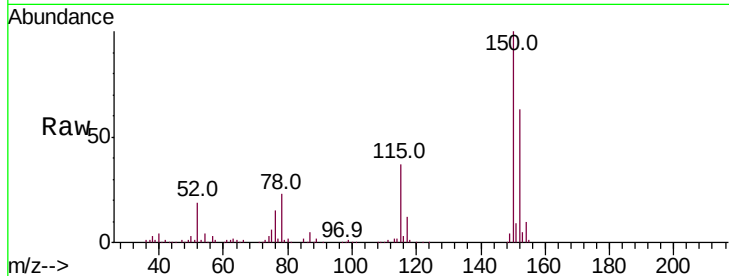
Tot Ion:152 Resp: 140275

Ion Ratio Lower Upper

152 100

115 58.3 29.7 89.1

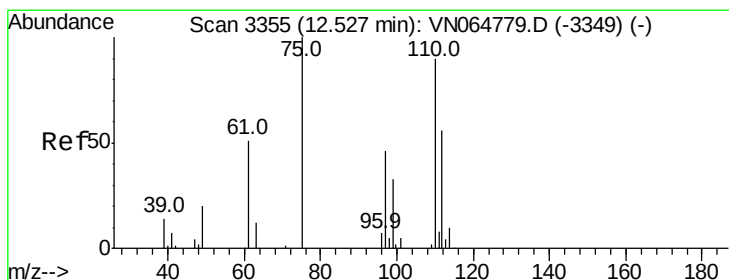
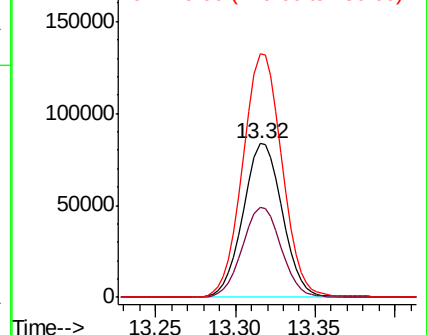
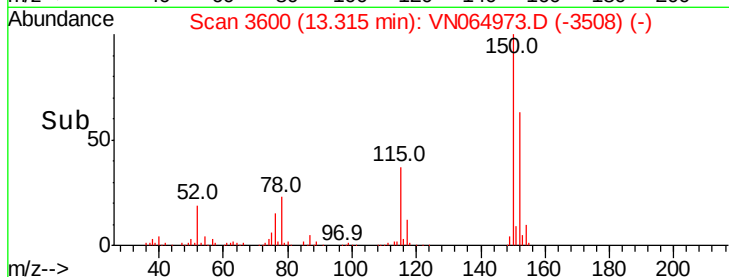
150 158.1 0.0 350.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.550 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064973.D

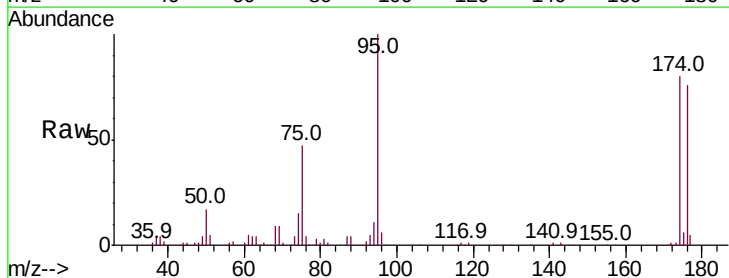
Acq: 8 Dec 2020 16:37

Tgt Ion: 75 Resp: 71143

Ion Ratio Lower Upper

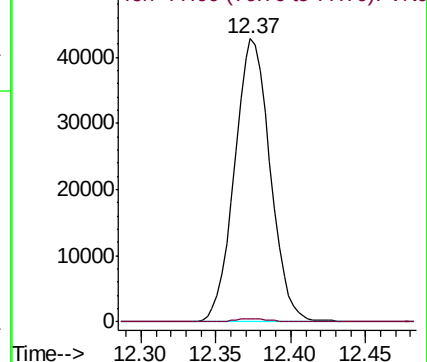
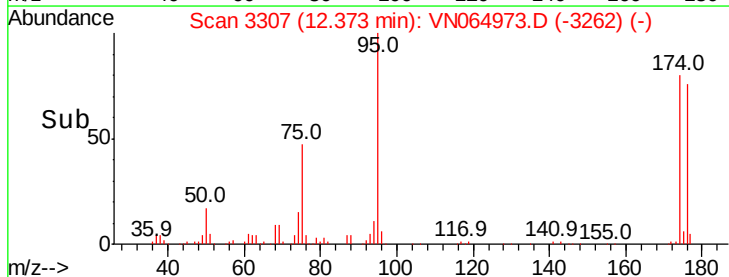
75 100

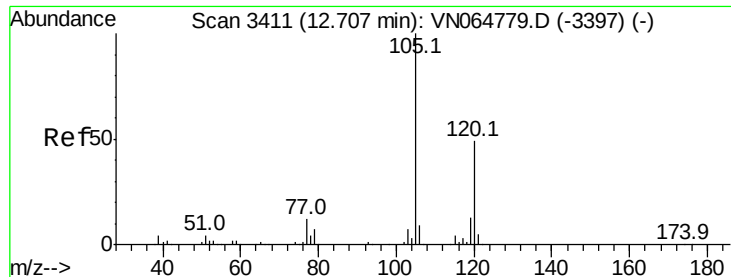
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.263 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

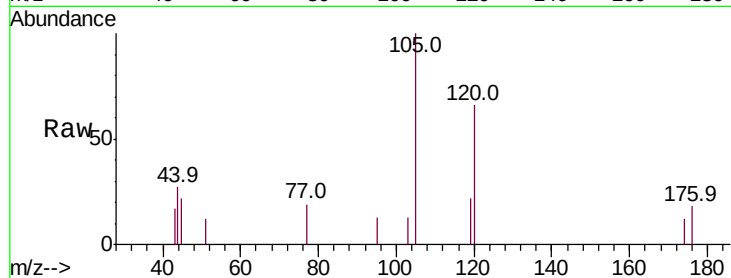
PB133456ZHE#10

Tot Ion:105 Resp: 2136

Ion Ratio Lower Upper

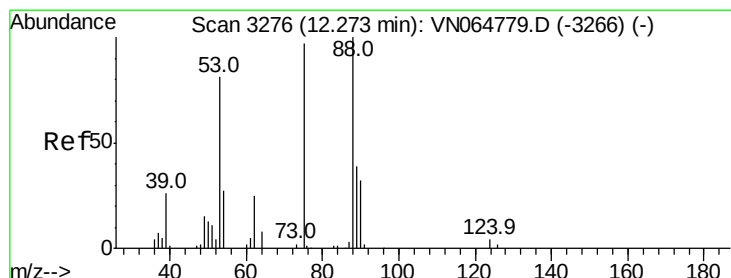
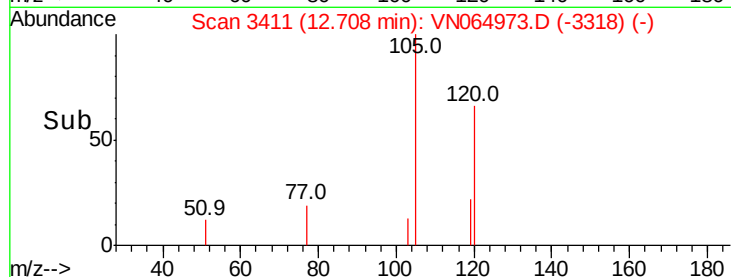
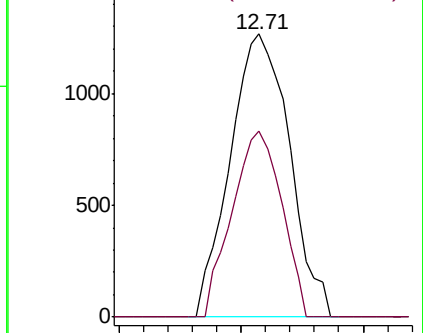
105 100

120 55.1 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 64.545 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064973.D

Acq: 8 Dec 2020 16:37

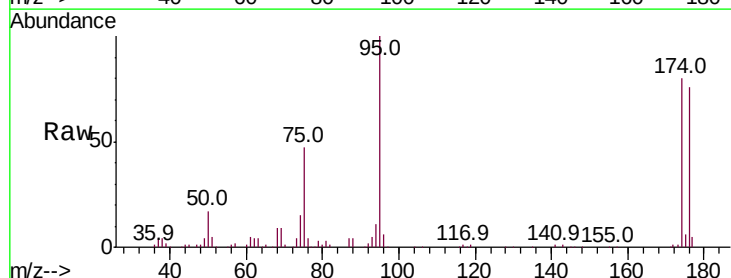
Tgt Ion: 75 Resp: 71143

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

