

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064972.D
 Acq On : 8 Dec 2020 16:13
 Operator : JC/MD
 Sample : PB133456ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#09

Quant Time: Dec 09 06:52:56 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	172590	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	324895	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	339956	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	145957	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.98	65	109056	54.35	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	108.70%		
35) Dibromofluoromethane	7.55	113	100327	51.61	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.22%		
50) Toluene-d8	10.06	98	409620	51.57	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.14%		
62) 4-Bromofluorobenzene	12.38	95	156713	55.13	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	110.26%		

Target Compounds

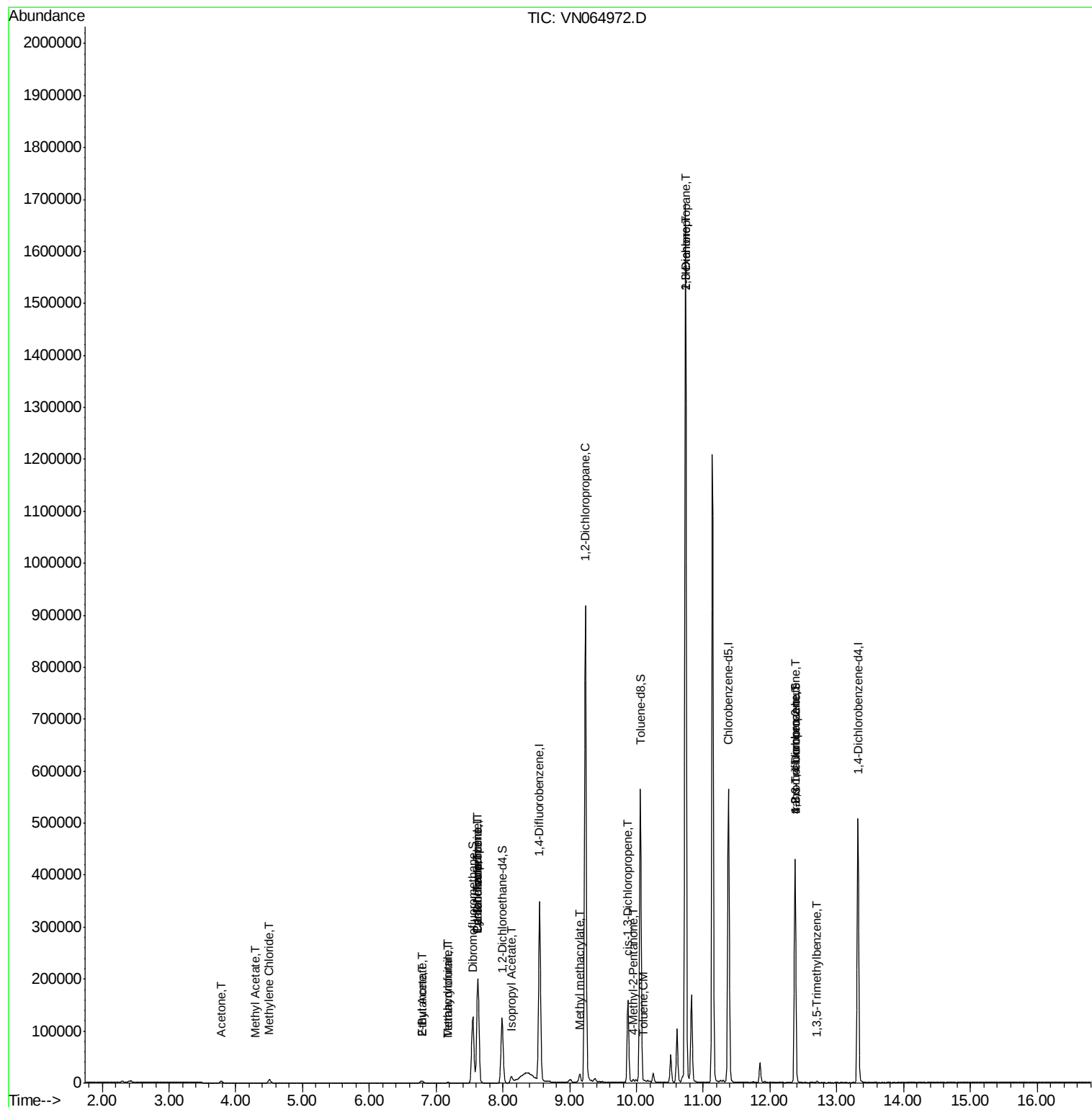
					Qvalue	
16) Acetone	3.78	43	5441	8.249	ug/l #	88
18) Methyl Acetate	4.29	43	622	0.314	ug/l #	50
20) Methylene Chloride	4.50	84	4932	2.386	ug/l	88
25) 2-Butanone	6.78	43	1066	0.997	ug/l	91
29) Tetrahydrofuran	7.18	42	319	0.432	ug/l #	90
31) Cyclohexane	7.62	56	3000	1.073	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11547	3.834	ug/l #	50
37) Ethyl Acetate	6.78	43	1066	0.367	ug/l #	66
38) Carbon Tetrachloride	7.62	117	16183	5.165	ug/l #	16
41) Methacrylonitrile	7.17	41	549	0.410	ug/l #	25
43) Isopropyl Acetate	8.13	43	19056	4.082	ug/l #	89
45) 1,2-Dichloropropane	9.23	63	1107	0.463	ug/l #	43
48) Methyl methacrylate	9.14	41	4046	1.814	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	4139	1.477	ug/l	93
52) Toluene	10.12	92	1576	0.277	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	29654	7.732	ug/l #	63
57) 1,3-Dichloropropane	10.74	76	17663	4.582	ug/l #	42
59) 2-Hexanone	10.74	43	230110	114.098	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	72988	23.220	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2125	0.252	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	72988	63.641	ug/l #	15

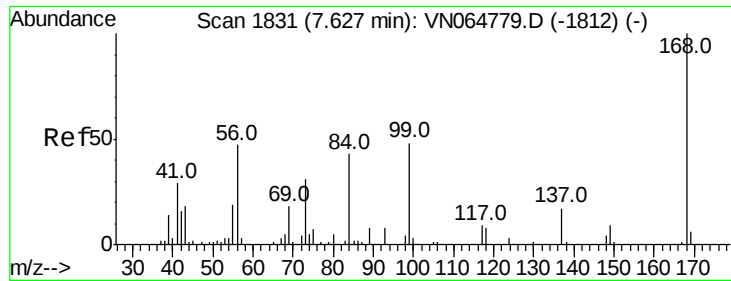
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

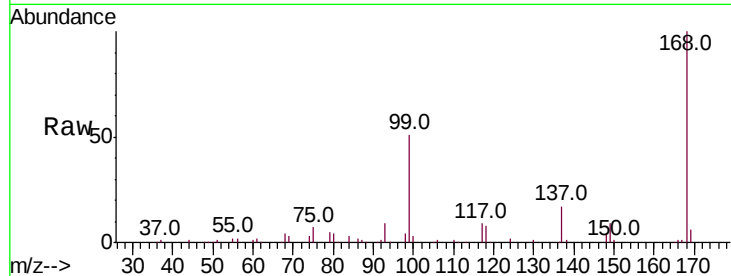
PB133456ZHE#09

Tot Ion:168 Resp: 172590

Ion Ratio Lower Upper

168 100

99 51.5 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

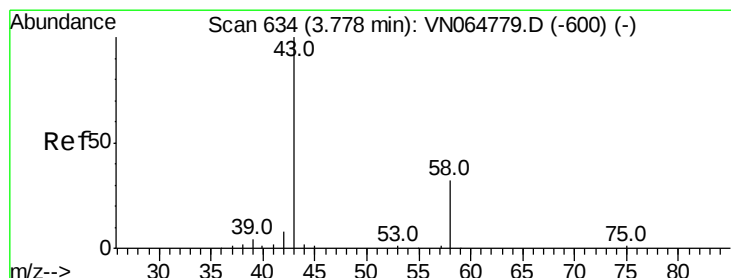
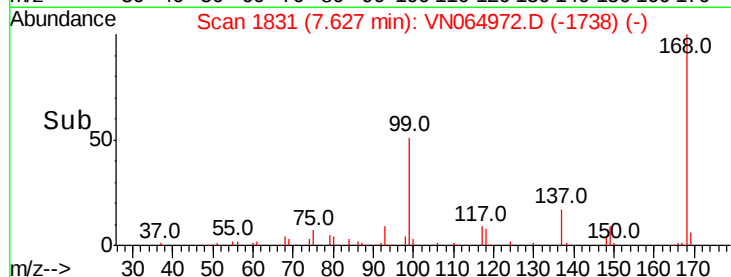
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 8.249 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064972.D

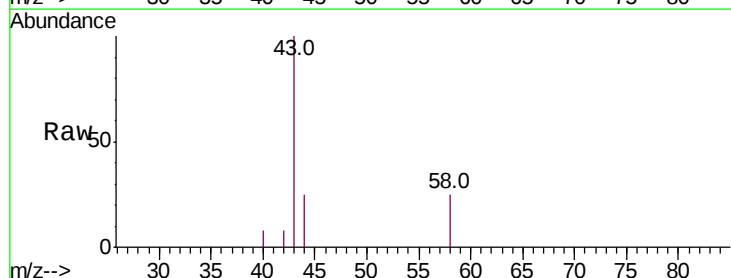
Acq: 8 Dec 2020 16:13

Tgt Ion: 43 Resp: 5441

Ion Ratio Lower Upper

43 100

58 25.2 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

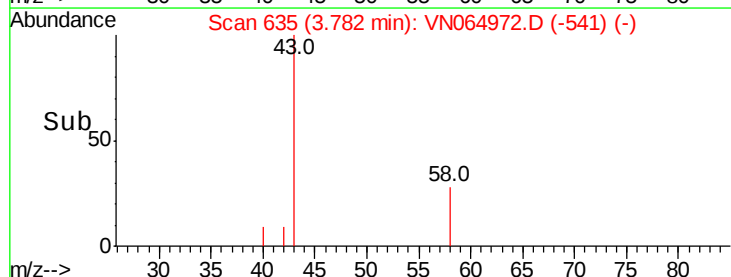
1500

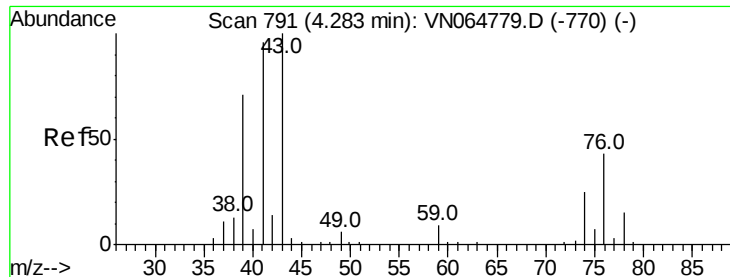
1000

500

0

Time--> 3.70 3.75 3.80 3.85

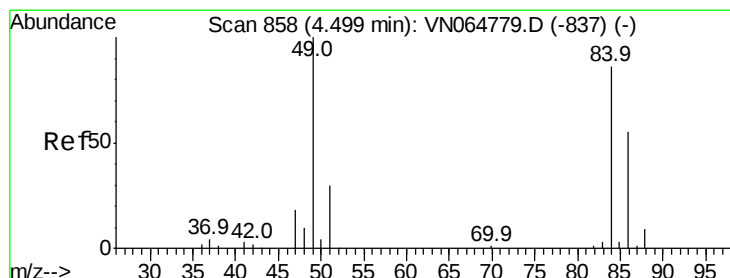
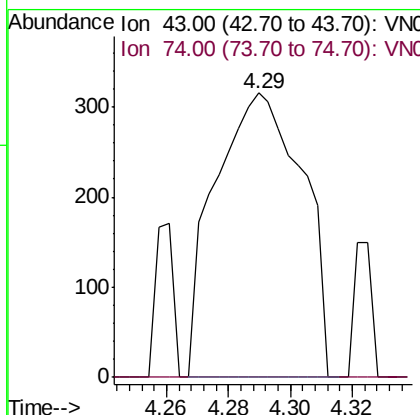
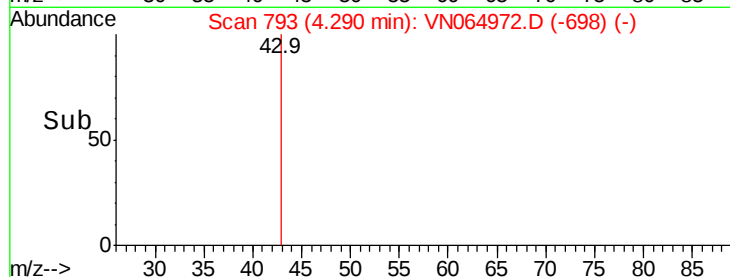
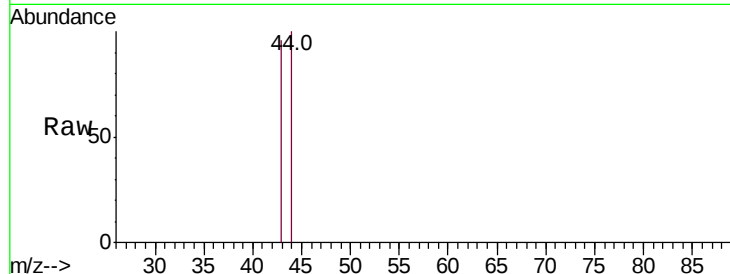




#18
Methyl Acetate
Concen: 0.314 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064972.D
Acq: 8 Dec 2020 16:13

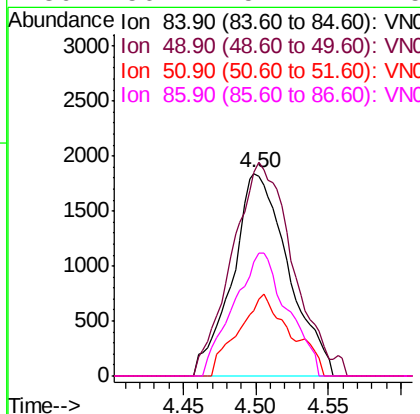
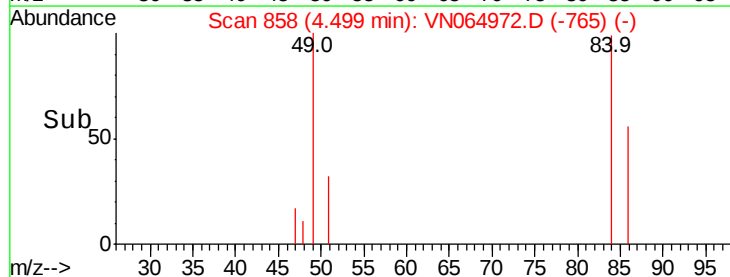
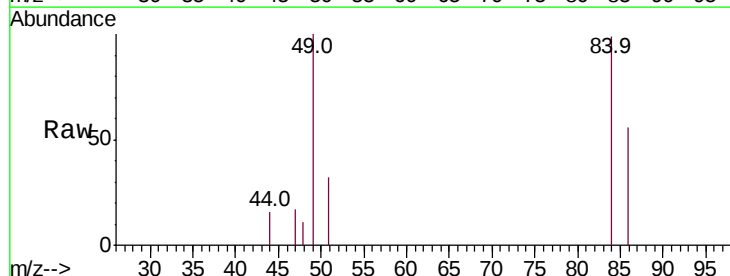
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#09

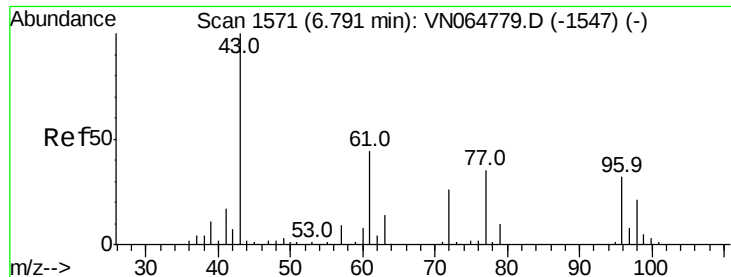
Tot Ion: 43 Resp: 622
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 2.386 ug/l
RT: 4.50 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN064972.D
Acq: 8 Dec 2020 16:13

Tgt Ion: 84 Resp: 4932
Ion Ratio Lower Upper
84 100
49 100.6 93.4 140.0
51 32.3 28.2 42.4
86 56.4 51.7 77.5





#25

2-Butanone

Concen: 0.997 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. -0.01 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

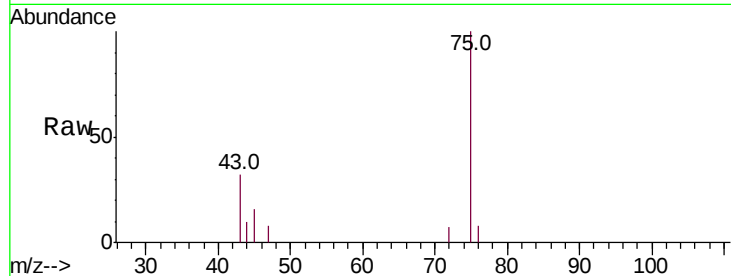
PB133456ZHE#09

Tot Ion: 43 Resp: 1066

Ion Ratio Lower Upper

43 100

72 21.6 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

800

600

400

200

0

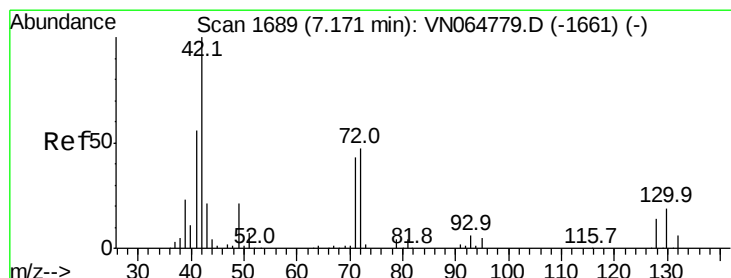
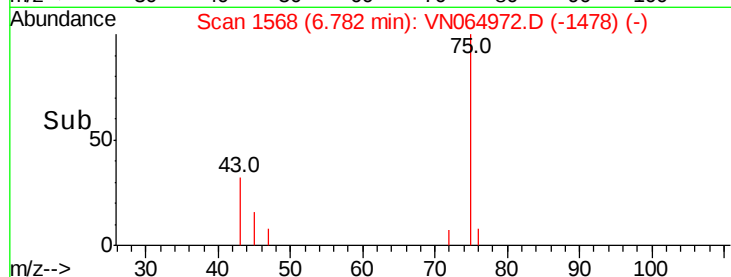
6.74

6.76

6.78

6.80

Time-->



#29

Tetrahydrofuran

Concen: 0.432 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

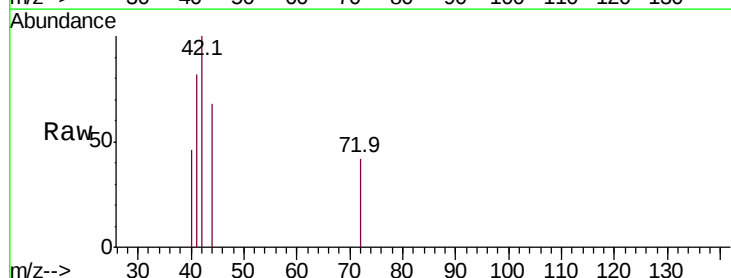
Tgt Ion: 42 Resp: 319

Ion Ratio Lower Upper

42 100

72 56.1 36.6 54.8#

71 40.1 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

500

400

300

200

100

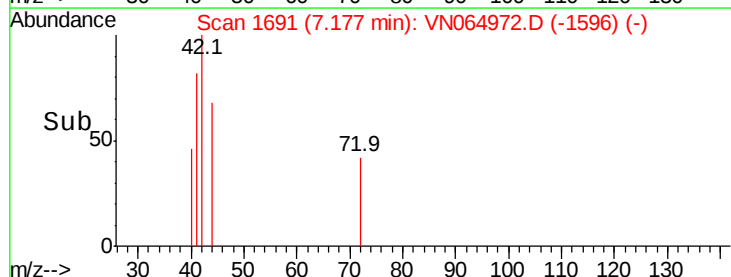
0

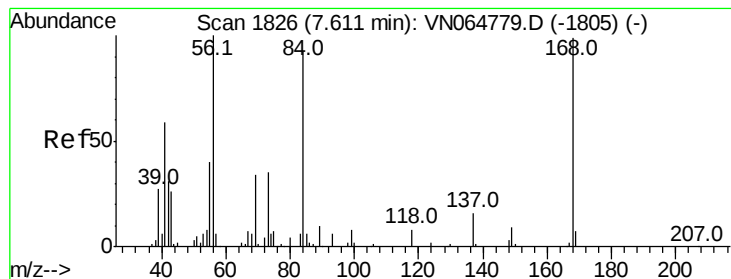
7.17

7.18

7.19

Time-->





#31

Cyclohexane

Concen: 1.073 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#09

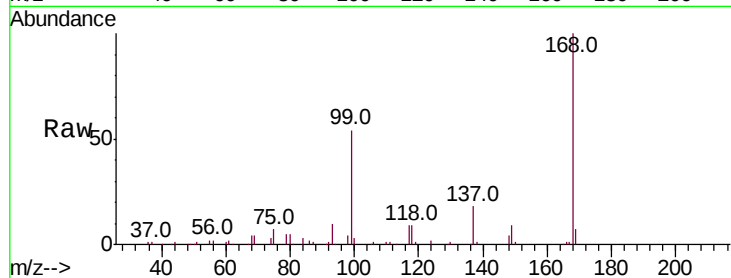
Tot Ion: 56 Resp: 3000

Ion Ratio Lower Upper

56 100

69 204.4 27.5 41.3#

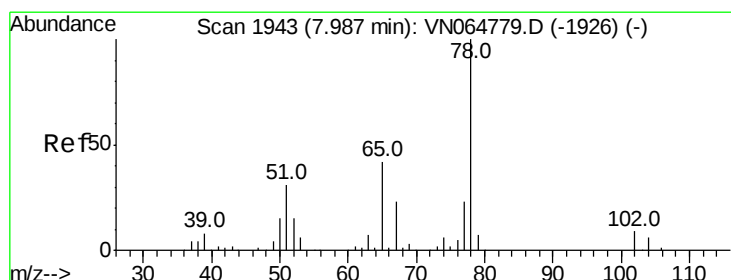
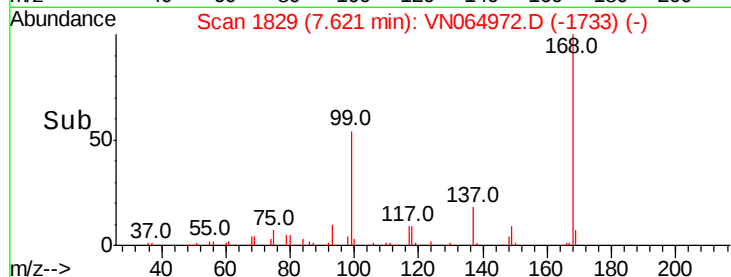
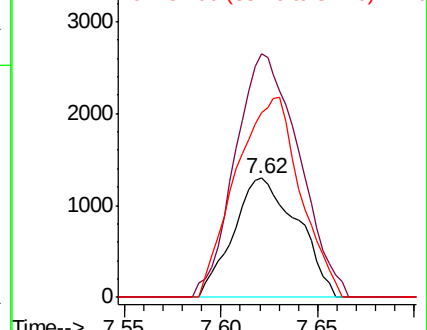
84 155.4 73.9 110.9#



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: 54.352 ug/l

RT: 7.98 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN064972.D

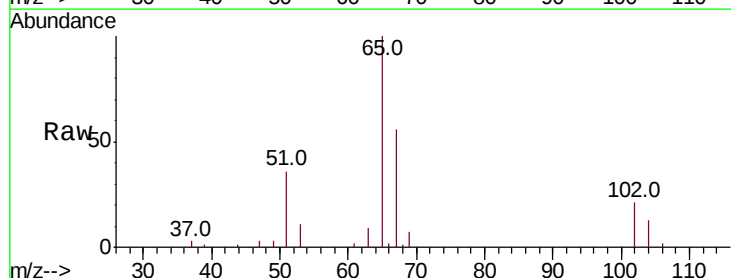
Acq: 8 Dec 2020 16:13

Tgt Ion: 65 Resp: 109056

Ion Ratio Lower Upper

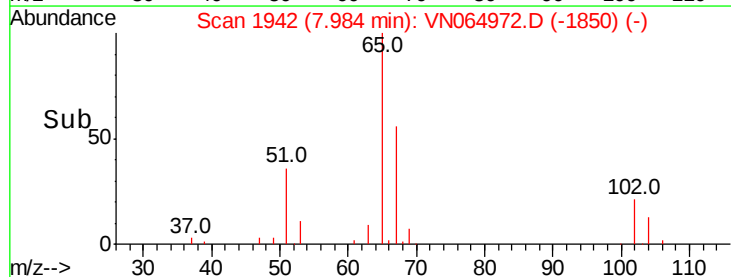
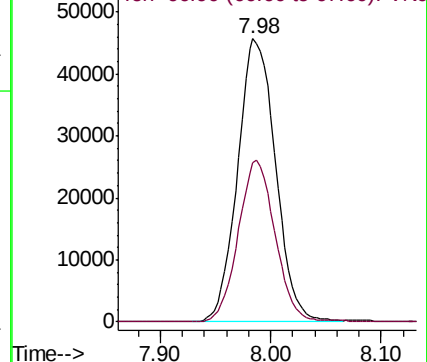
65 100

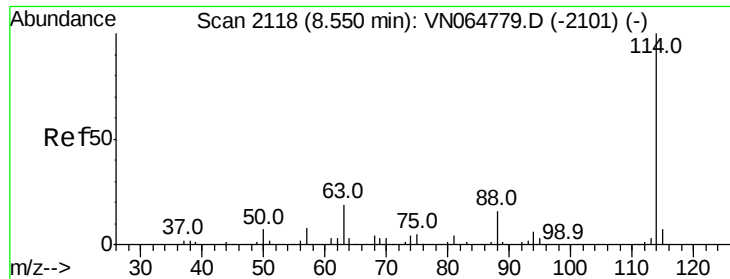
67 55.4 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

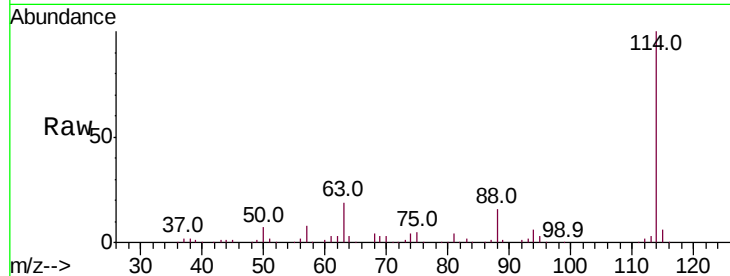




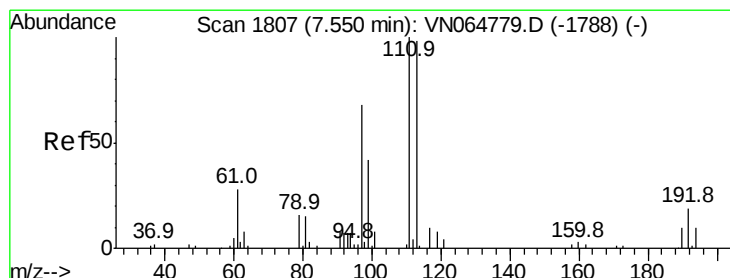
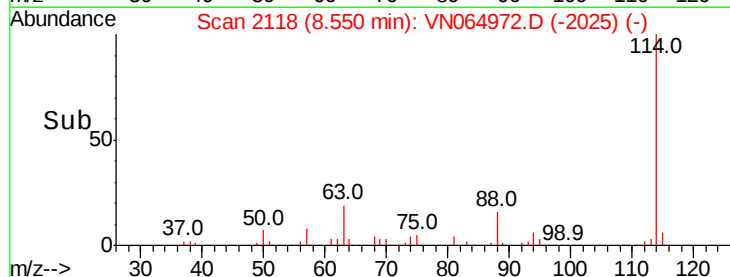
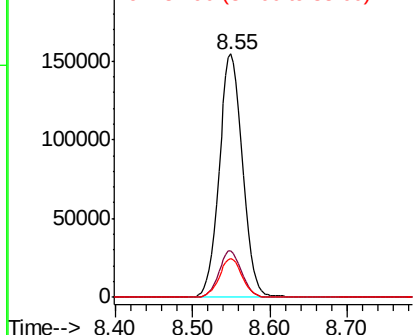
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN064972.D
Acq: 8 Dec 2020 16:13

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#09

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.6
88	15.8	0.0	32.6

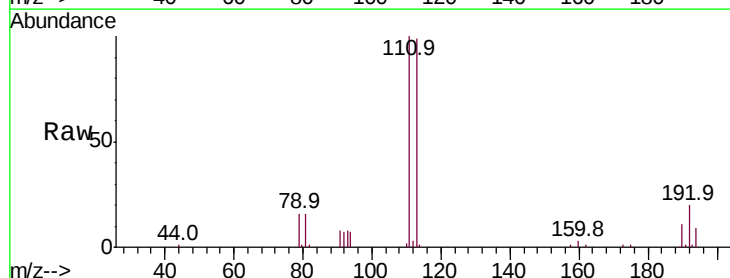


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

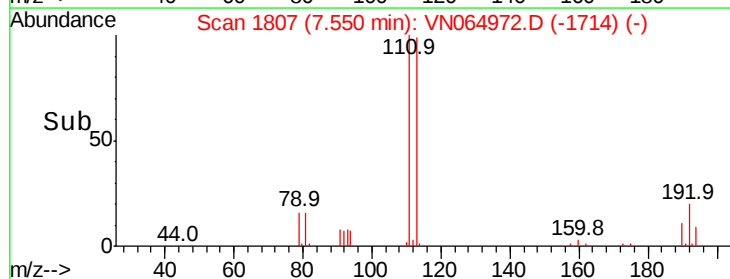
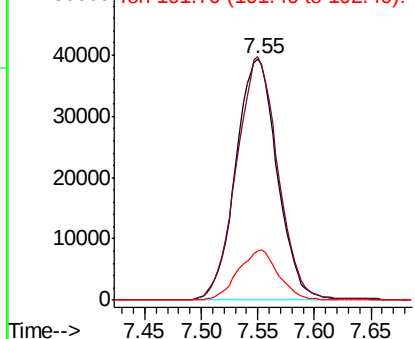


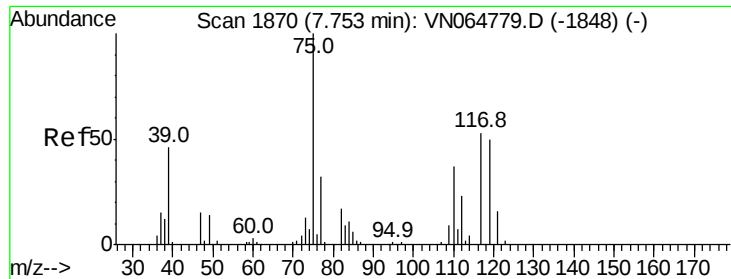
#35
Dibromofluoromethane
Concen: 51.607 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064972.D
Acq: 8 Dec 2020 16:13

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.6	122.4
192	20.1	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: 3.834 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#09

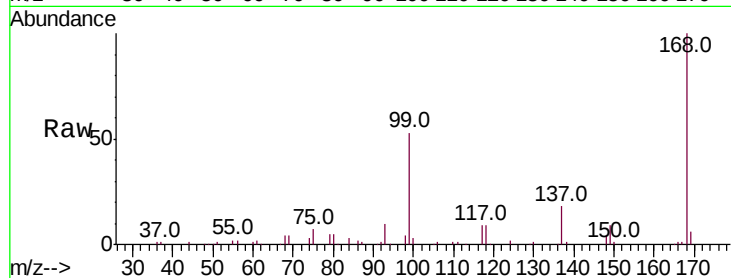
Tot Ion: 75 Resp: 11547

Ion Ratio Lower Upper

75 100

110 9.8 17.8 53.3#

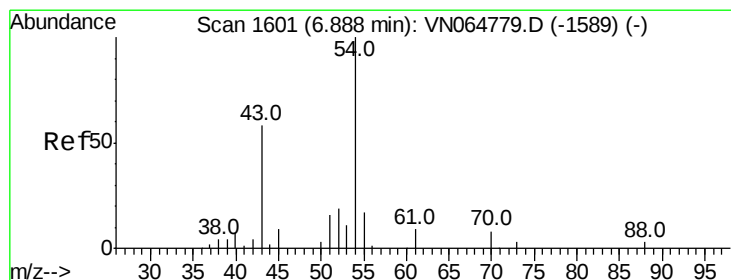
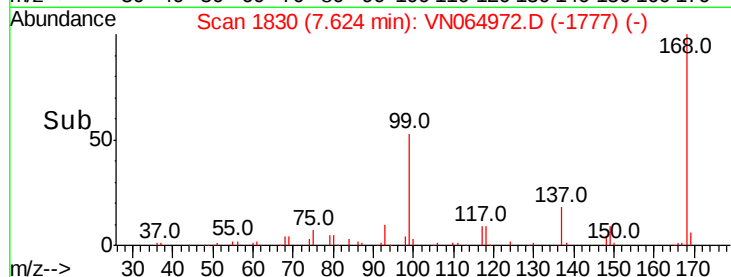
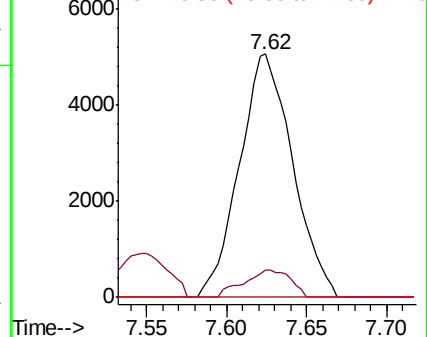
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.367 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. -0.11 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

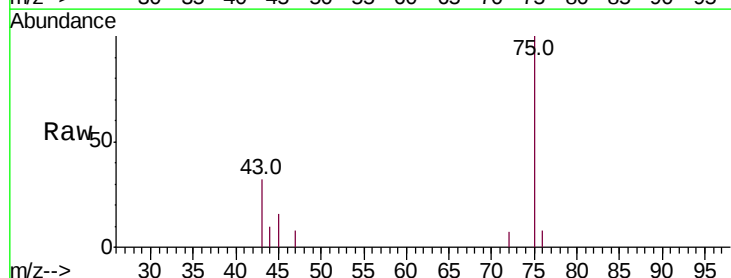
Tgt Ion: 43 Resp: 1066

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

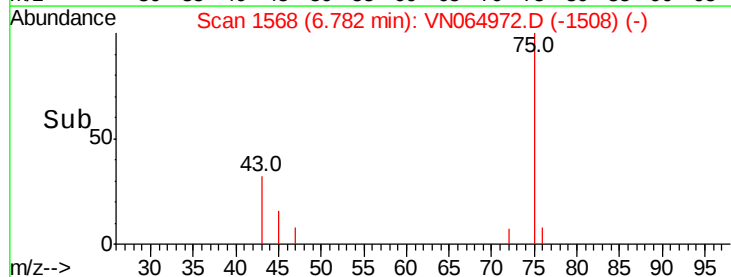
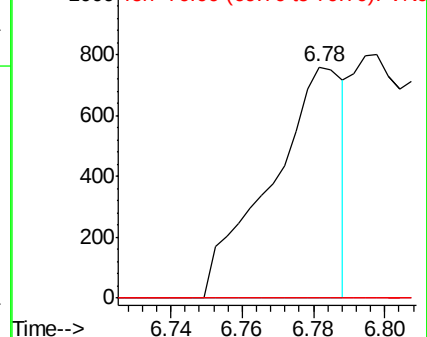
70 0.0 8.8 13.2#

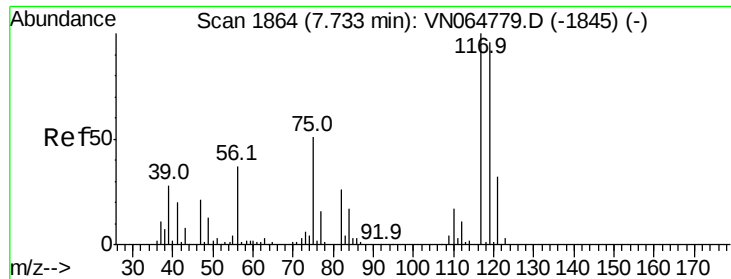


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.165 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#09

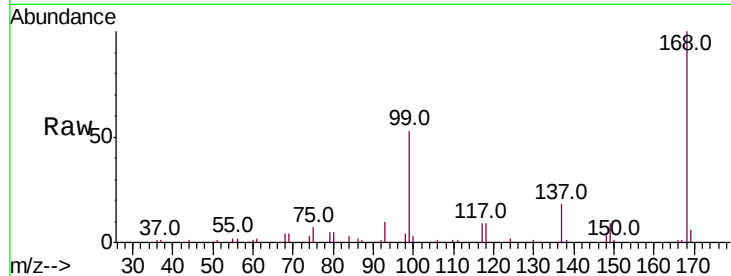
Tot Ion:117 Resp: 16183

Ion Ratio Lower Upper

117 100

119 5.5 76.7 115.1#

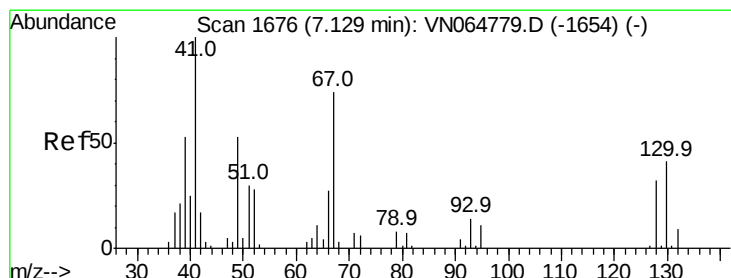
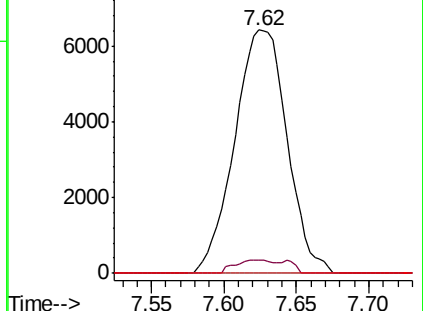
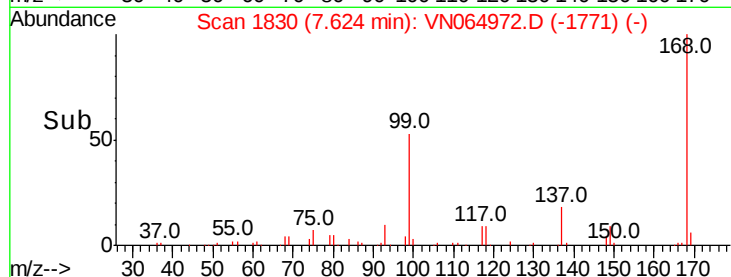
121 0.0 25.4 38.2#



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: 0.410 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.05 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Tgt Ion: 41 Resp: 549

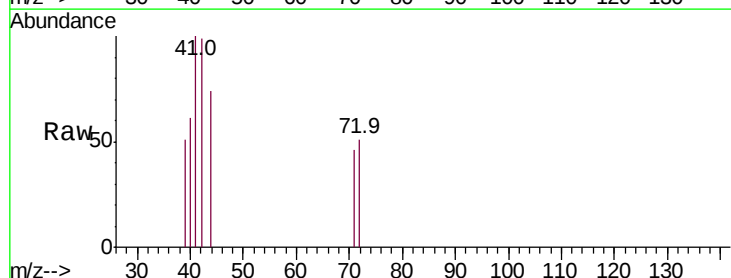
Ion Ratio Lower Upper

41 100

39 31.3 51.0 76.6#

67 0.0 79.8 119.8#

52 0.0 31.5 47.3#

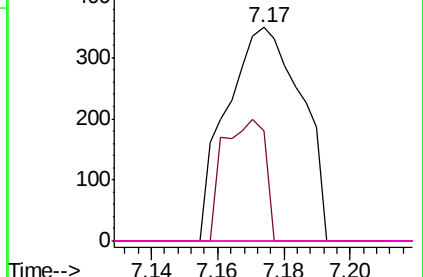
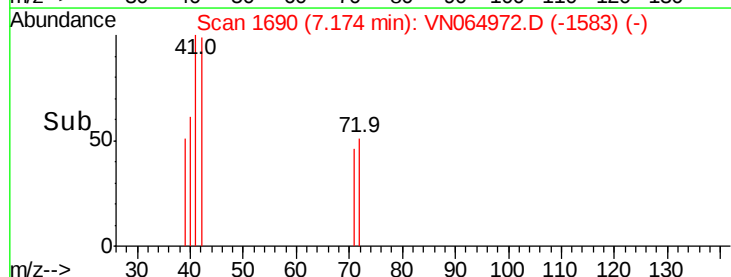


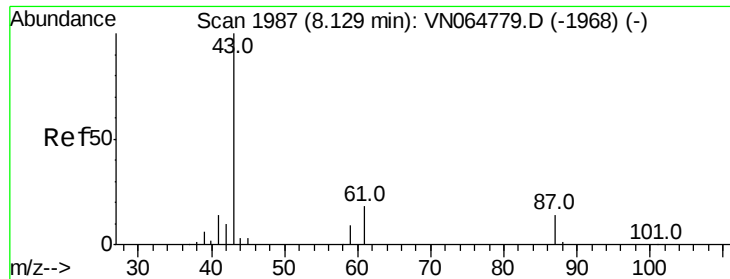
Abundance Ion 41.00 (40.70 to 41.70): V

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: 4.082 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#09

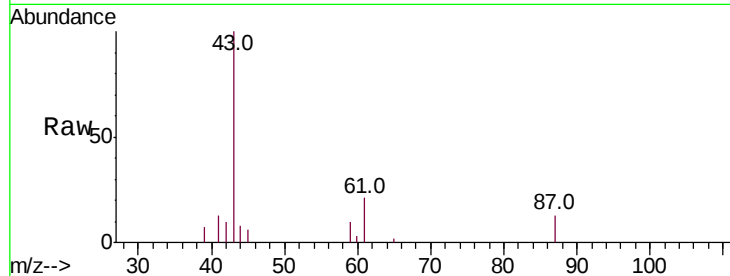
Tot Ion: 43 Resp: 19056

Ion Ratio Lower Upper

43 100

61 16.0 17.2 25.8#

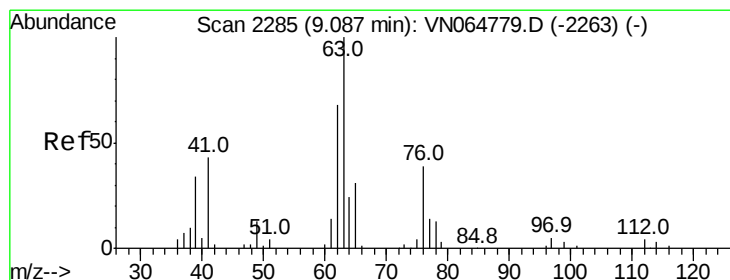
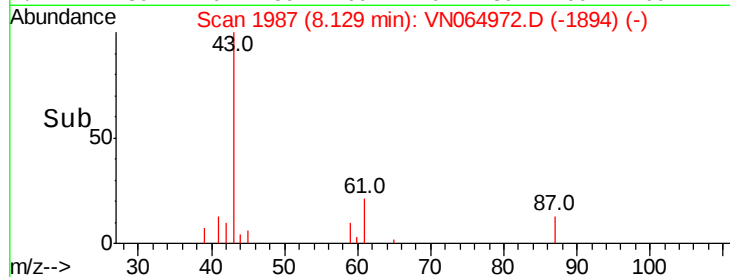
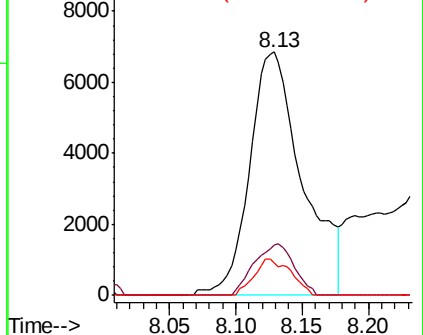
87 10.4 11.4 17.0#



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: 0.463 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN064972.D

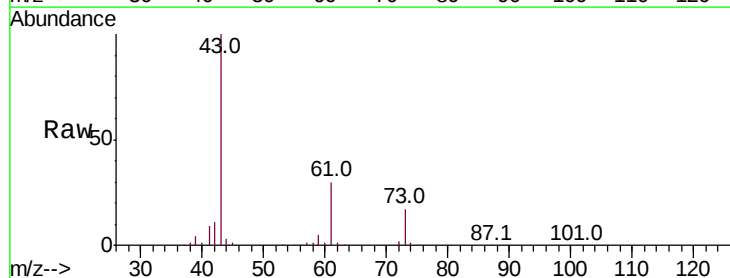
Acq: 8 Dec 2020 16:13

Tgt Ion: 63 Resp: 1107

Ion Ratio Lower Upper

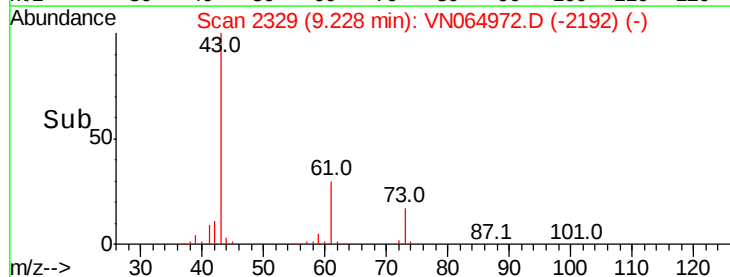
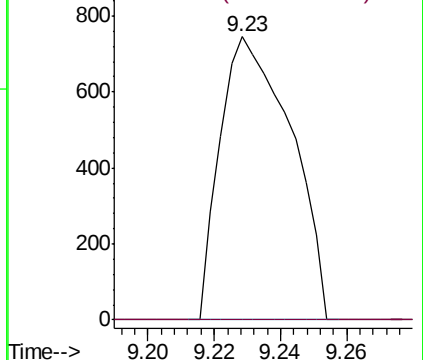
63 100

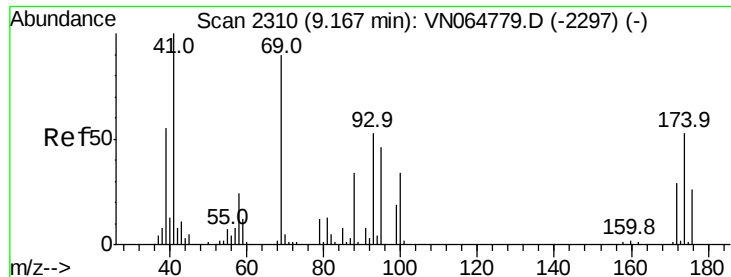
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

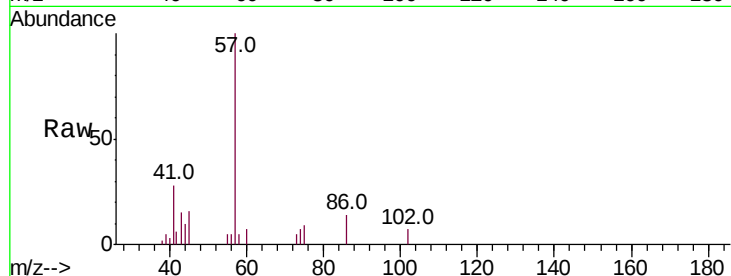




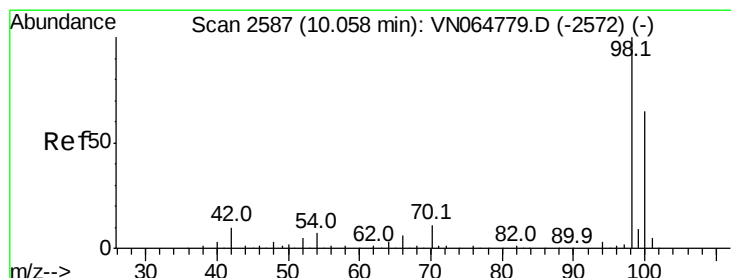
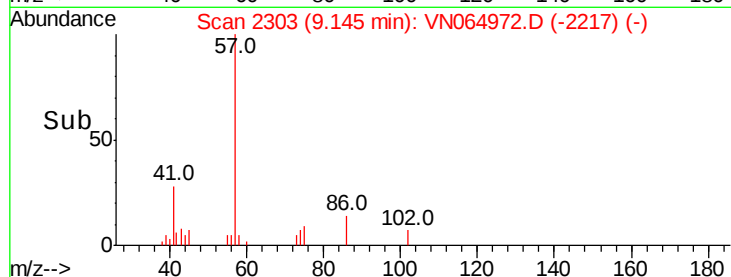
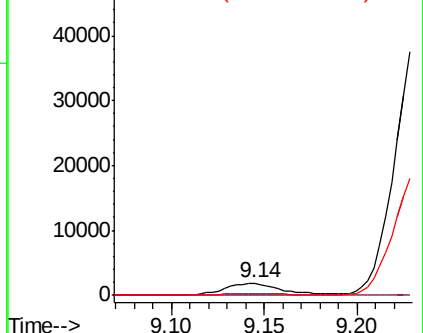
#48
Methvl methacrylate
Concen: 1.814 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064972.D
Acq: 8 Dec 2020 16:13

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#09

Tot Ion: 41 Resp: 4046
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

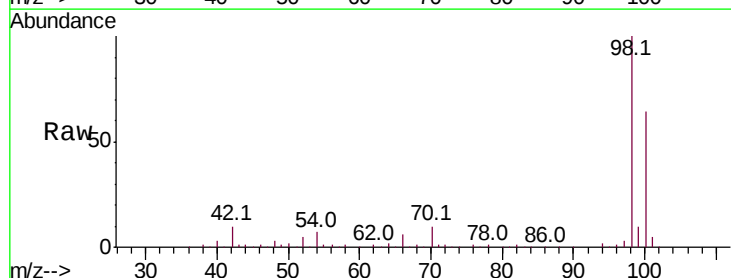


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

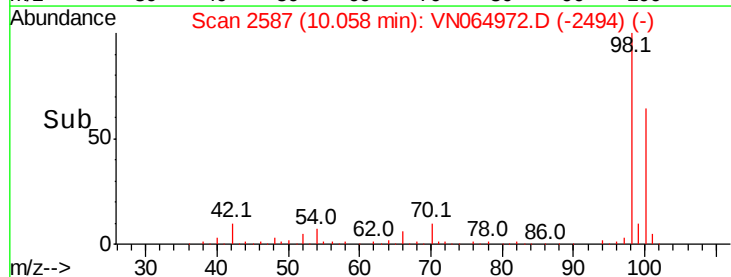
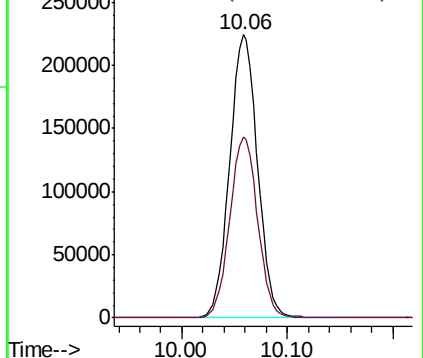


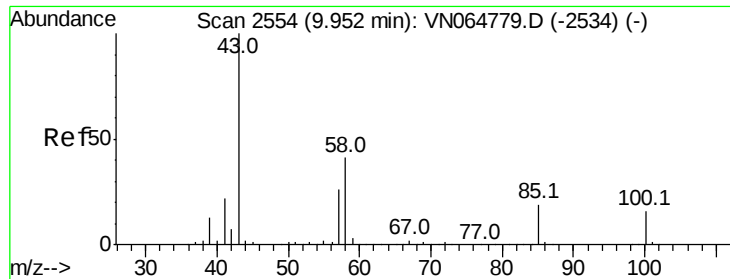
#50
Toluene-d8
Concen: 51.568 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064972.D
Acq: 8 Dec 2020 16:13

Tgt Ion: 98 Resp: 409620
Ion Ratio Lower Upper
98 100
100 64.1 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: 1.477 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

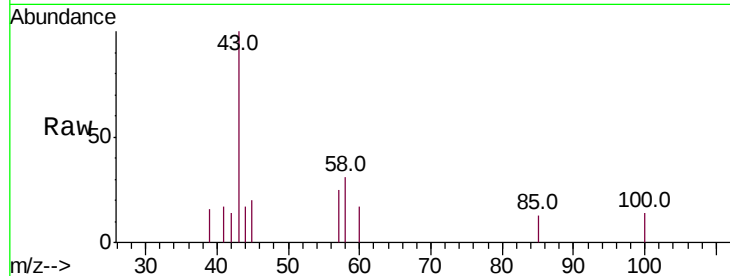
PB133456ZHE#09

Tot Ion: 43 Resp: 4139

Ion Ratio Lower Upper

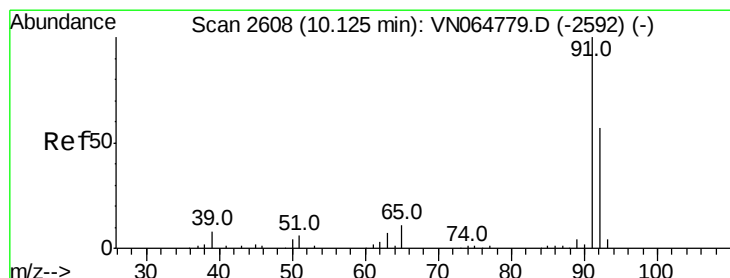
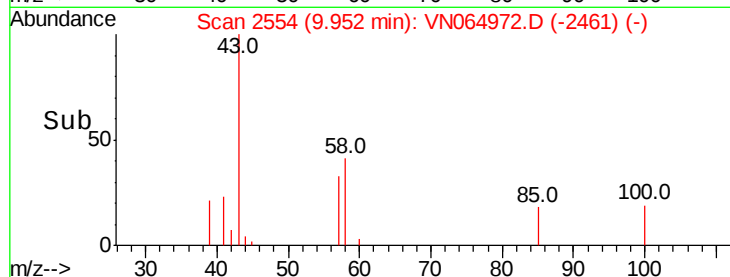
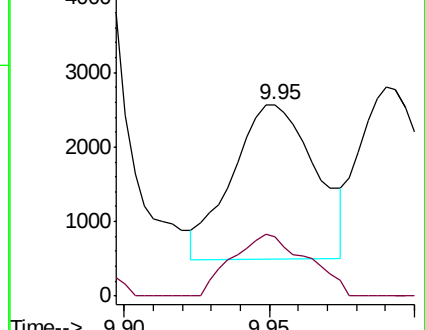
43 100

58 36.4 32.4 48.6



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

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)



#52

Toluene

Concen: 0.277 ug/l

RT: 10.12 min Scan# 2606

Delta R.T. -0.01 min

Lab File: VN064972.D

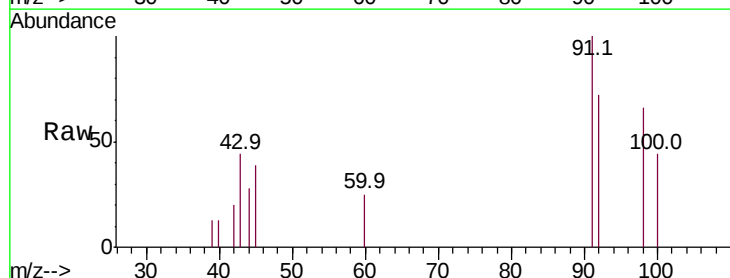
Acq: 8 Dec 2020 16:13

Tgt Ion: 92 Resp: 1576

Ion Ratio Lower Upper

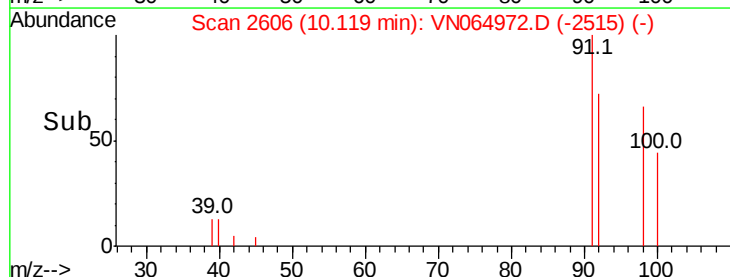
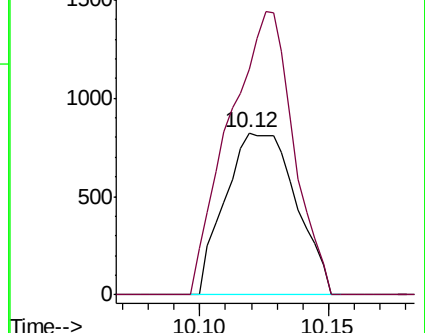
92 100

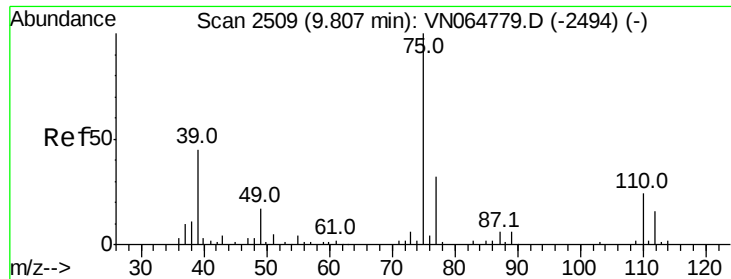
91 159.1 139.1 208.7



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: 7.732 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#09

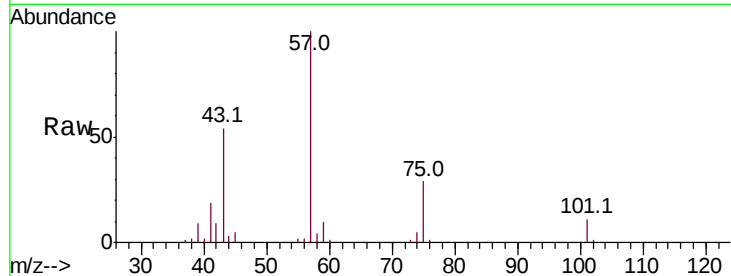
Tot Ion: 75 Resp: 29654

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

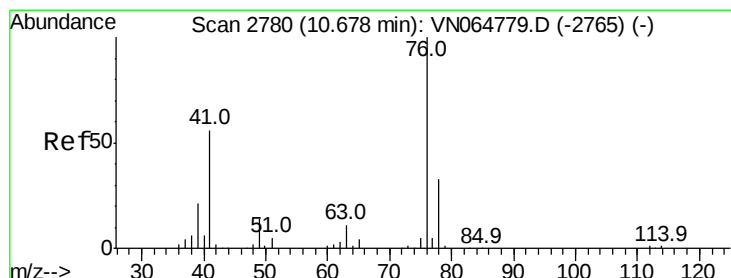
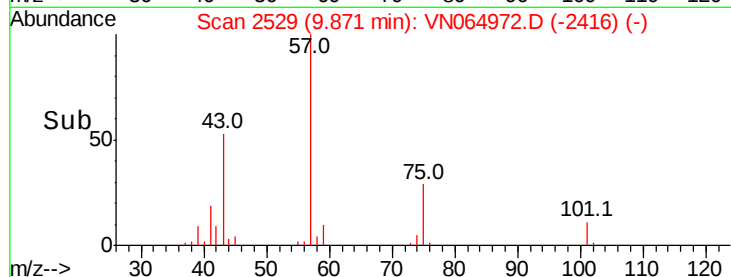
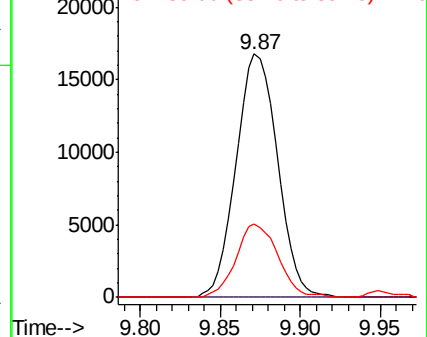
39 30.0 35.6 53.4#



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: 4.582 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064972.D

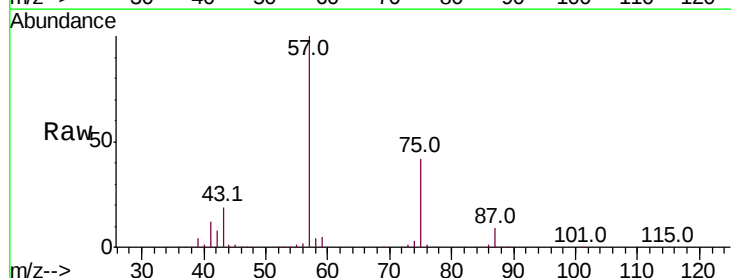
Acq: 8 Dec 2020 16:13

Tgt Ion: 76 Resp: 17663

Ion Ratio Lower Upper

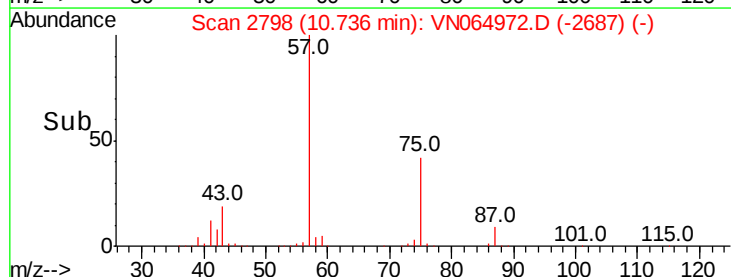
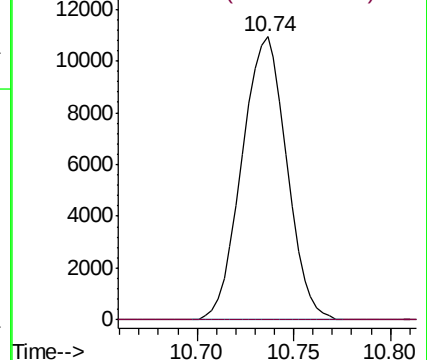
76 100

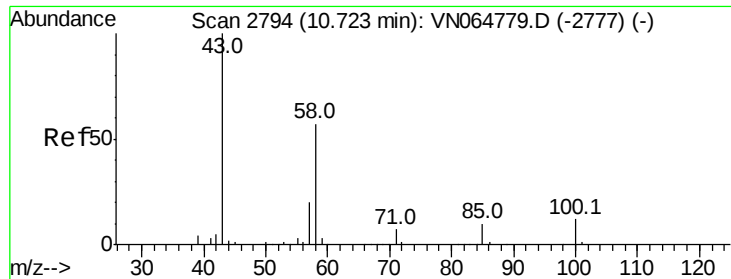
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

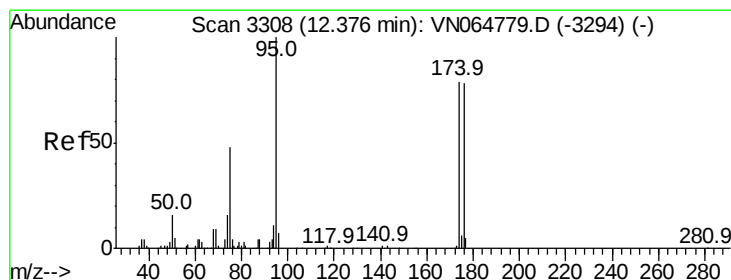
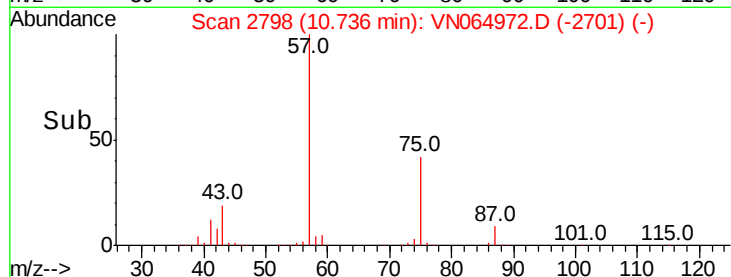
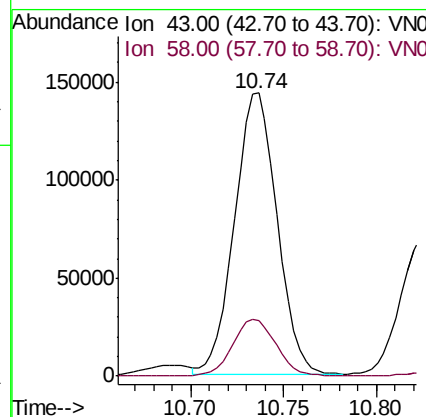
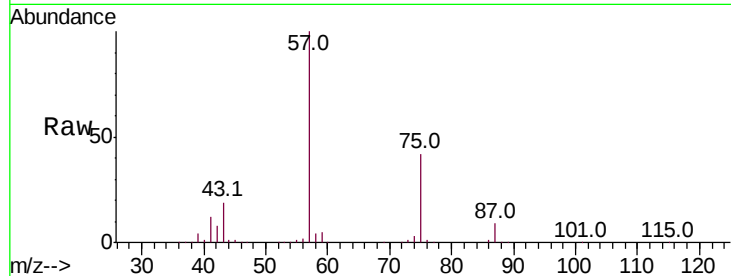




#59
2-Hexanone
Concen: 114.098 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064972.D
Acq: 8 Dec 2020 16:13

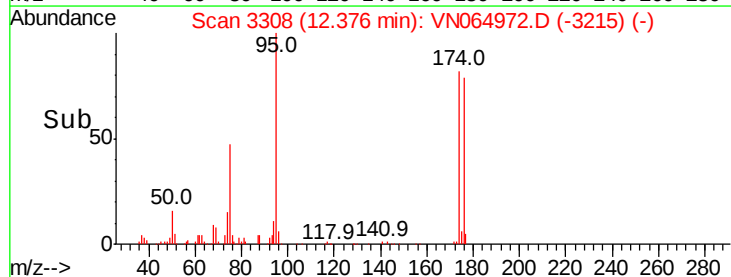
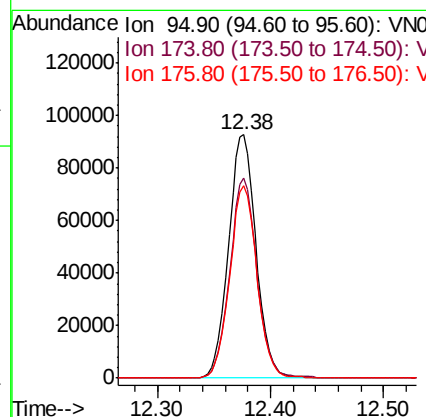
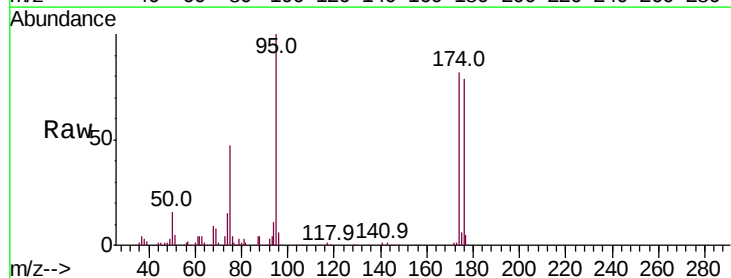
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#09

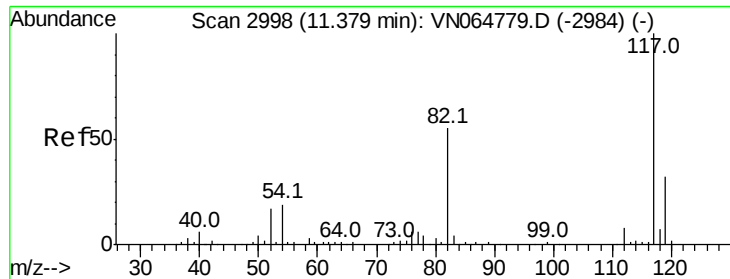
Tot Ion: 43 Resp: 230110
Ion Ratio Lower Upper
43 100
58 20.6 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 55.127 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064972.D
Acq: 8 Dec 2020 16:13

Tgt Ion: 95 Resp: 156713
Ion Ratio Lower Upper
95 100
174 81.1 0.0 160.4
176 78.3 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: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#09

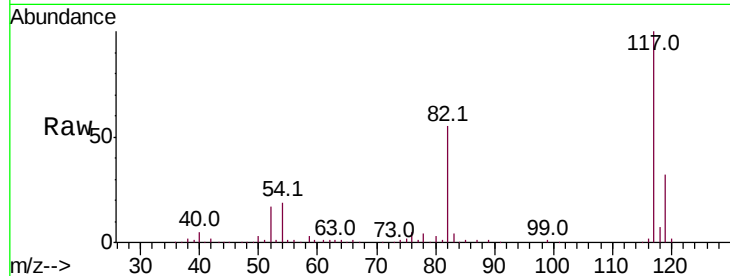
Tot Ion:117 Resp: 339956

Ion Ratio Lower Upper

117 100

82 54.8 44.2 66.2

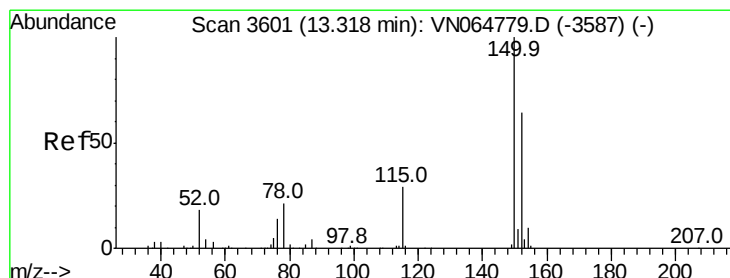
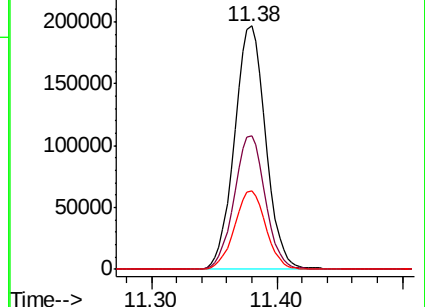
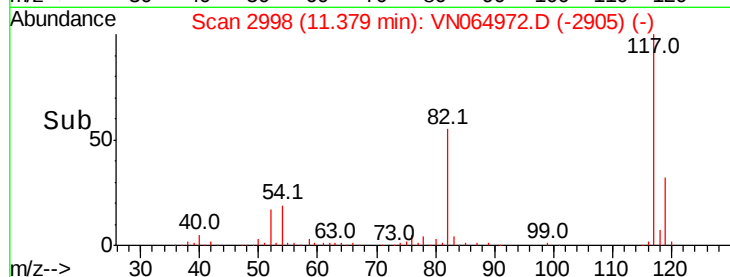
119 32.1 25.8 38.6



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

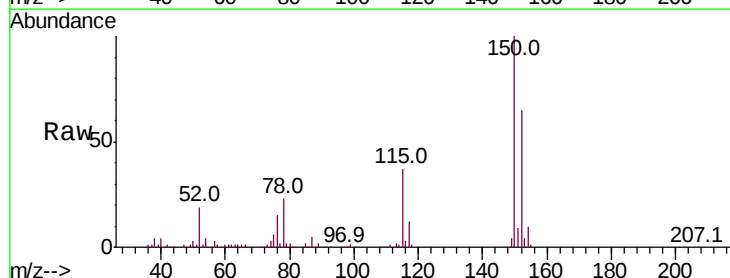
Tgt Ion:152 Resp: 145957

Ion Ratio Lower Upper

152 100

115 58.8 29.7 89.1

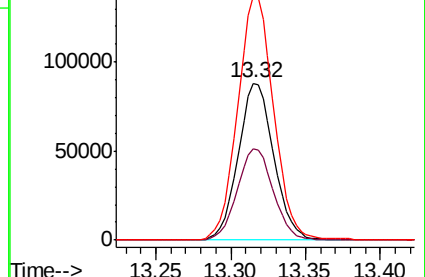
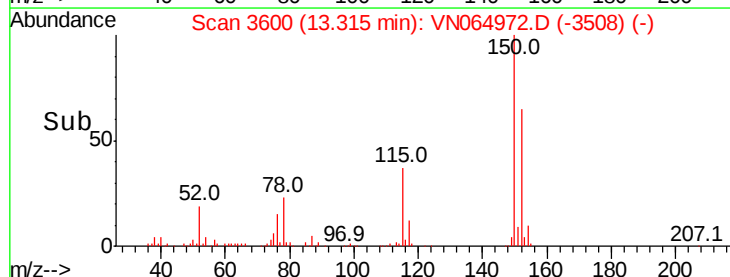
150 157.3 0.0 350.6

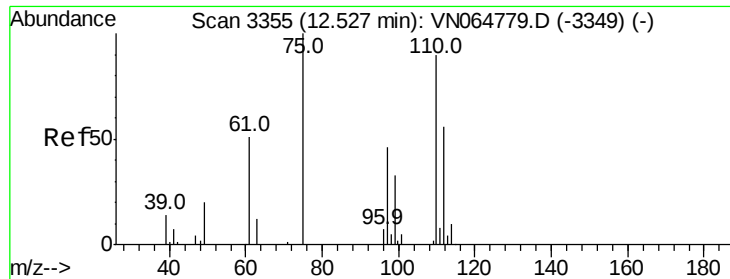


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.220 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

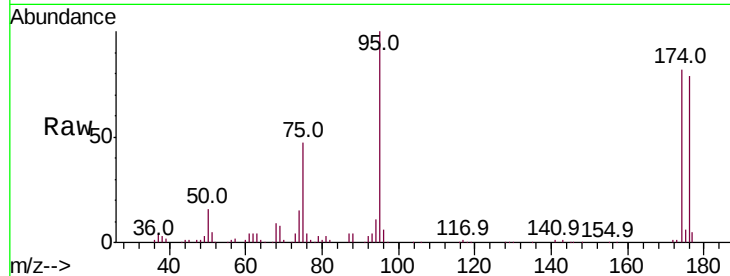
PB133456ZHE#09

Tot Ion: 75 Resp: 72988

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN064779.D (-3349) (-)

12.38

40000

30000

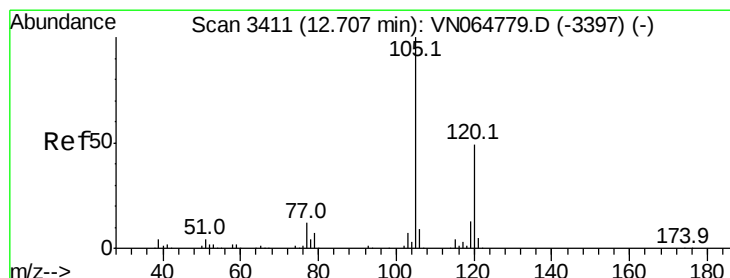
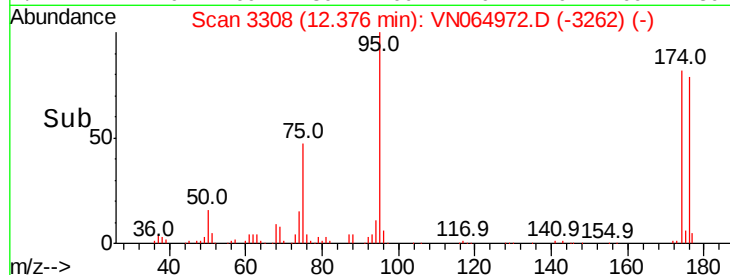
20000

10000

0

Time-->

12.30 12.35 12.40 12.45



#80

1,3,5-Trimethylbenzene

Concen: 0.252 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN064972.D

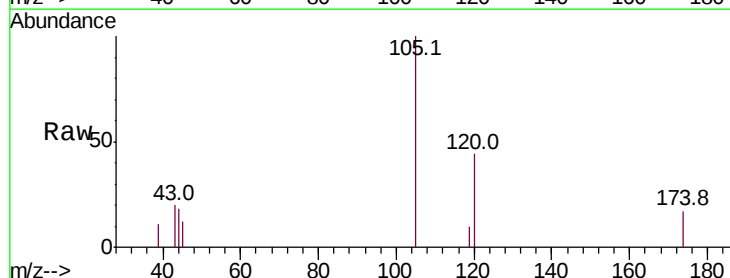
Acq: 8 Dec 2020 16:13

Tgt Ion: 105 Resp: 2125

Ion Ratio Lower Upper

105 100

120 48.5 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): VN064779.D (-3397) (-)

Ion 120.00 (119.70 to 120.70): VN064779.D (-3397) (-)

12.71

1500

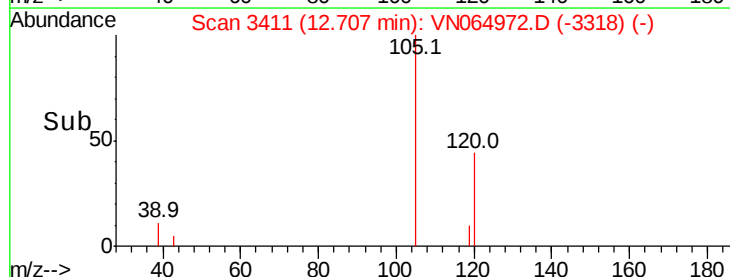
1000

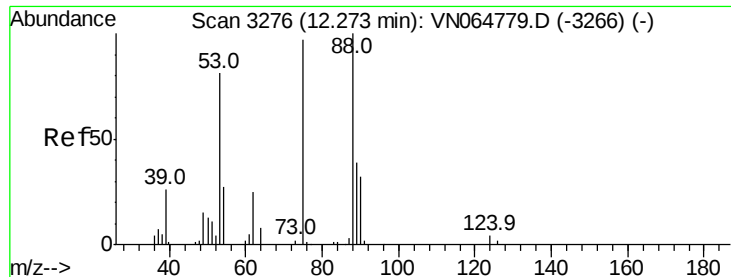
500

0

Time-->

12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 63.641 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064972.D

Acq: 8 Dec 2020 16:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#09

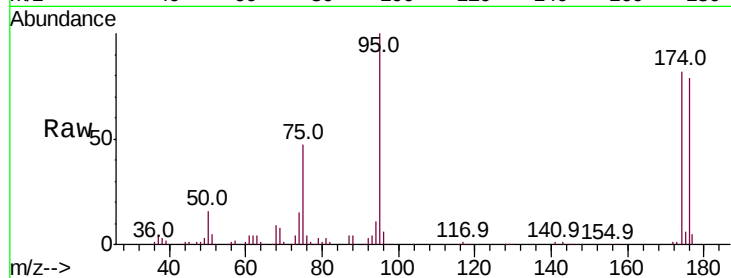
Tot Ion: 75 Resp: 72988

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

