

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064968.D
 Acq On : 8 Dec 2020 14:37
 Operator : JC/MD
 Sample : PB133456ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#05

Quant Time: Dec 09 06:52:20 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	168928	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	320994	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	341310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	143749	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	108080	55.03	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	110.06%		
35) Dibromofluoromethane	7.55	113	98926	51.50	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.00%		
50) Toluene-d8	10.06	98	406025	51.74	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.48%		
62) 4-Bromofluorobenzene	12.37	95	156616	55.76	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	111.52%		

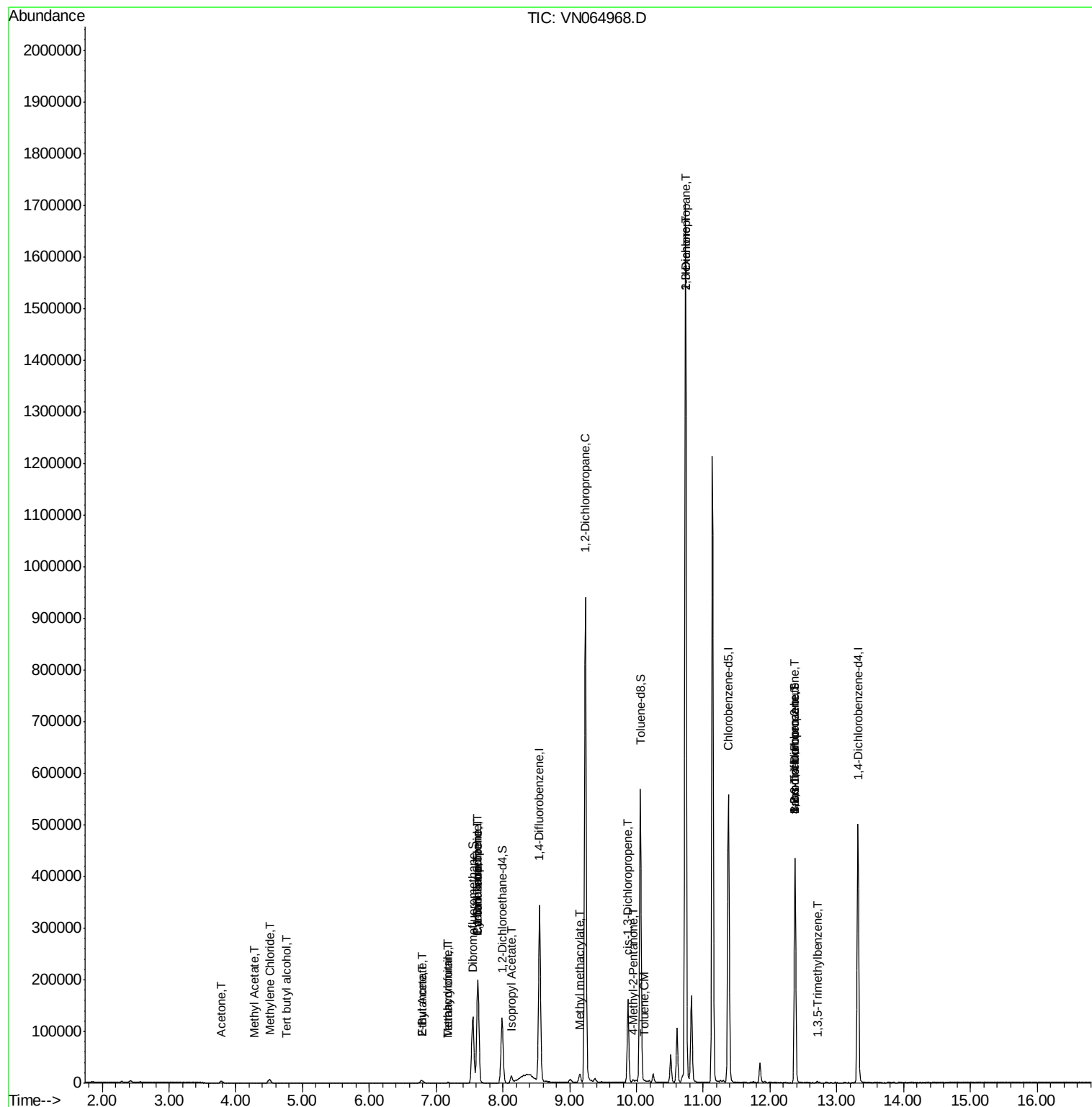
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	63	0.206	ug/l #	73
16) Acetone	3.78	43	5757	8.917	ug/l	96
18) Methyl Acetate	4.29	43	544	0.280	ug/l #	50
20) Methylene Chloride	4.51	84	5404	2.671	ug/l	95
25) 2-Butanone	6.80	43	2474	2.364	ug/l	96
29) Tetrahydrofuran	7.16	42	391	0.541	ug/l #	74
31) Cyclohexane	7.62	56	2741	1.001	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11611	3.902	ug/l #	47
37) Ethyl Acetate	6.80	43	2474	0.863	ug/l #	67
38) Carbon Tetrachloride	7.63	117	16469	5.320	ug/l #	17
41) Methacrylonitrile	7.16	41	314	0.237	ug/l #	17
43) Isopropyl Acetate	8.13	43	16575	3.594	ug/l	95
45) 1,2-Dichloropropane	9.23	63	685	0.290	ug/l #	43
48) Methyl methacrylate	9.14	41	4258	1.932	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3962	1.431	ug/l	92
52) Toluene	10.12	92	1495	0.266	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	30164	7.961	ug/l #	61
57) 1,3-Dichloropropane	10.73	76	17656	4.636	ug/l #	42
59) 2-Hexanone	10.73	43	230153	115.506	ug/l #	51
71) Bromoform	12.37	173	563	0.262	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	73747	23.822	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2048	0.246	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.37	75	73747	65.290	ug/l #	15

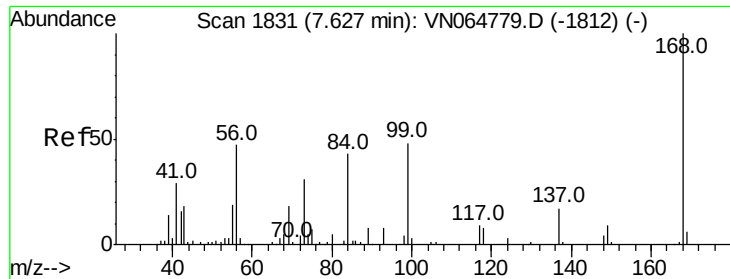
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064968.D

Acq: 8 Dec 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

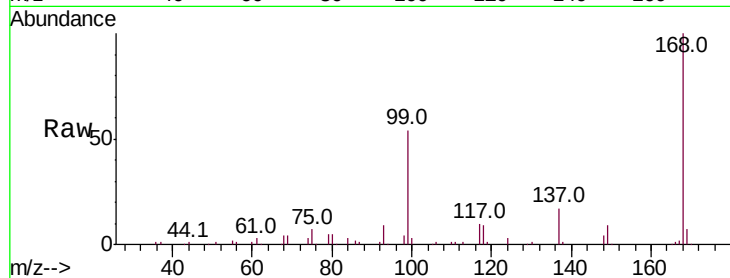
PB133456ZHE#05

Tot Ion:168 Resp: 168928

Ion Ratio Lower Upper

168 100

99 53.9 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN064779.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN064779.D (-1812) (-)

7.62

60000

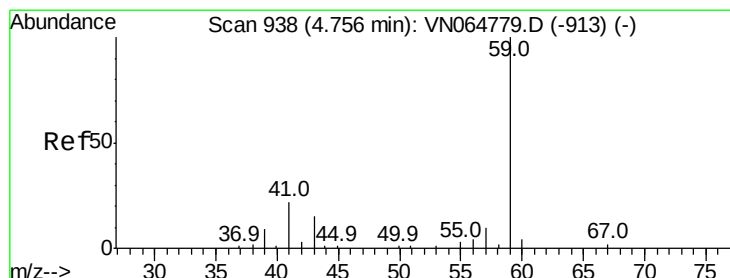
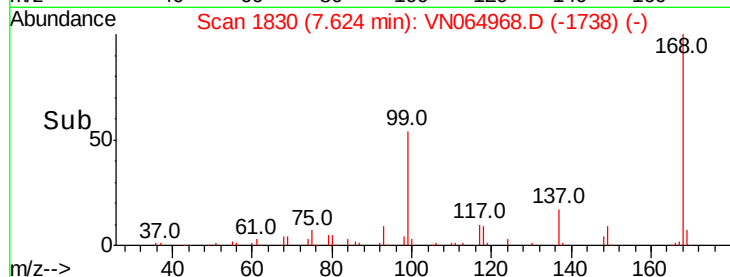
40000

20000

0

7.50 7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.206 ug/l

RT: 4.76 min Scan# 940

Delta R.T. 0.01 min

Lab File: VN064968.D

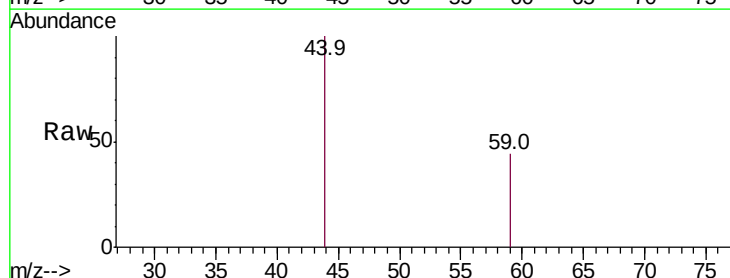
Acq: 8 Dec 2020 14:37

Tgt Ion: 59 Resp: 63

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN064779.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN064779.D (-913) (-)

4.76

200

150

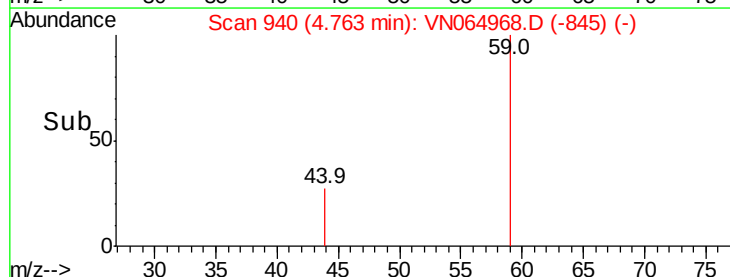
100

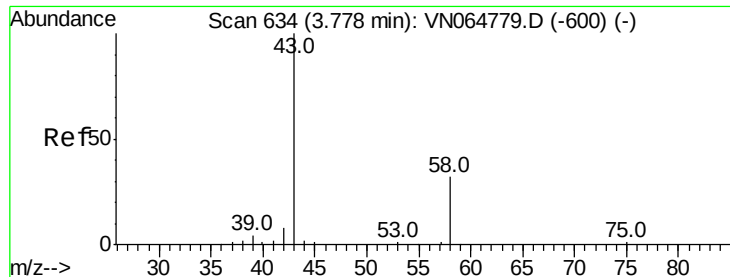
50

0

4.75 4.76 4.77

Time-->





#16

Acetone

Concen: 8.917 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064968.D

Acq: 8 Dec 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

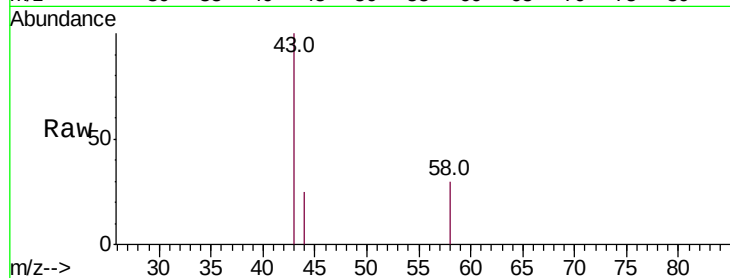
PB133456ZHE#05

Tot Ion: 43 Resp: 5757

Ion Ratio Lower Upper

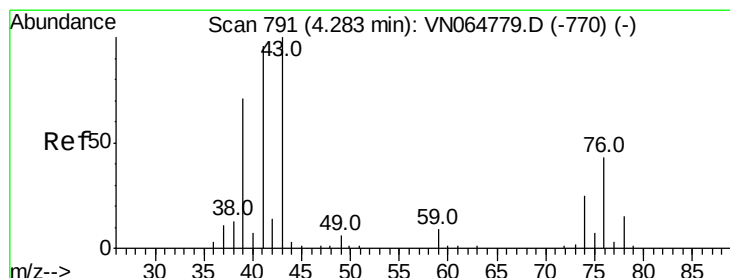
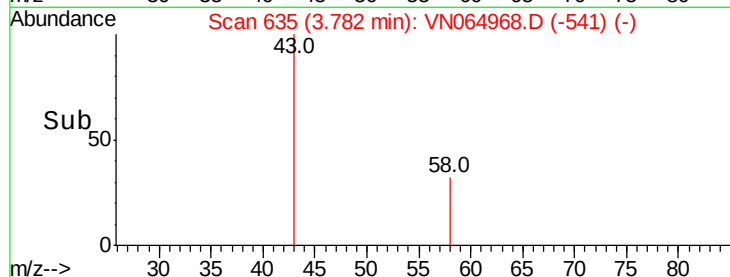
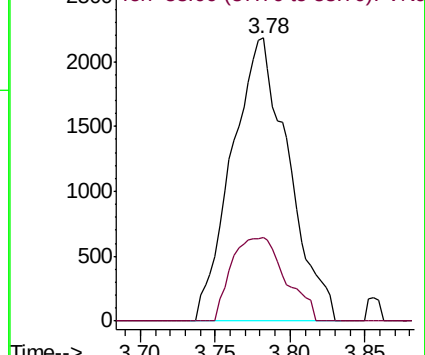
43 100

58 29.6 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN064968.D (-541) (-)

Ion 58.00 (57.70 to 58.70): VN064968.D (-541) (-)



#18

Methyl Acetate

Concen: 0.280 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN064968.D

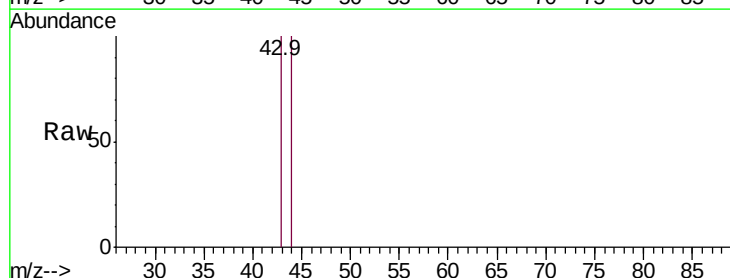
Acq: 8 Dec 2020 14:37

Tgt Ion: 43 Resp: 544

Ion Ratio Lower Upper

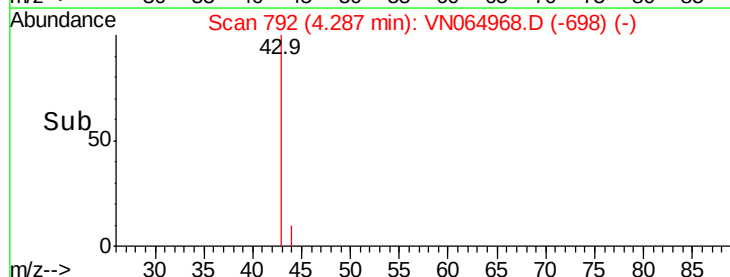
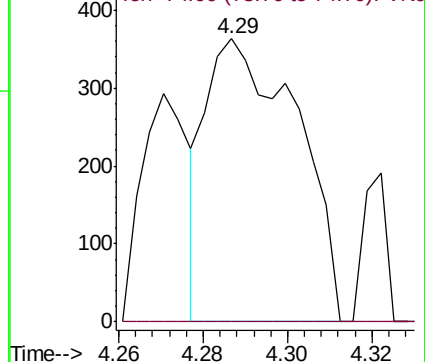
43 100

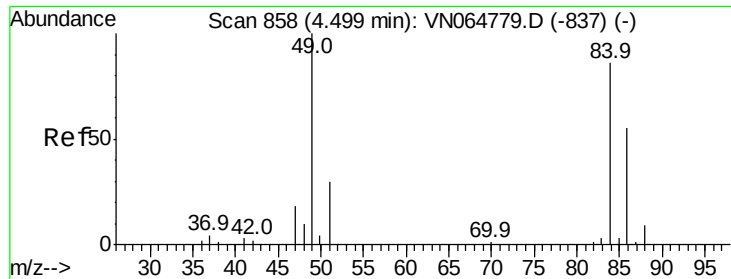
74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN064968.D (-698) (-)

Ion 74.00 (73.70 to 74.70): VN064968.D (-698) (-)

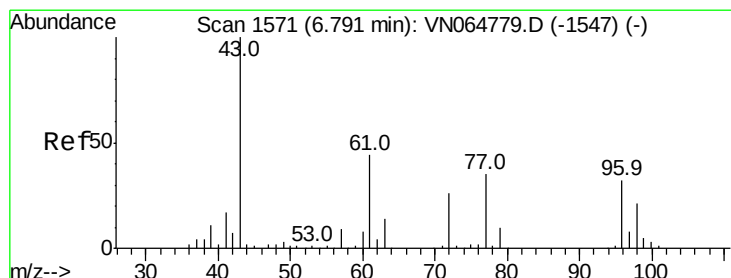
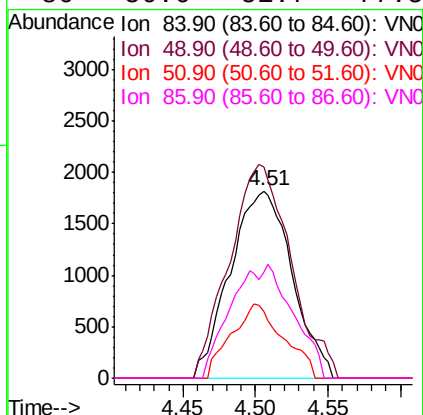
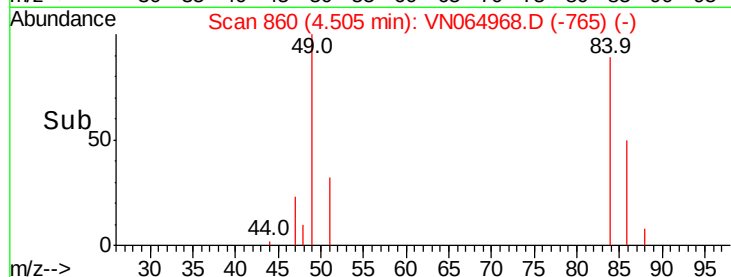
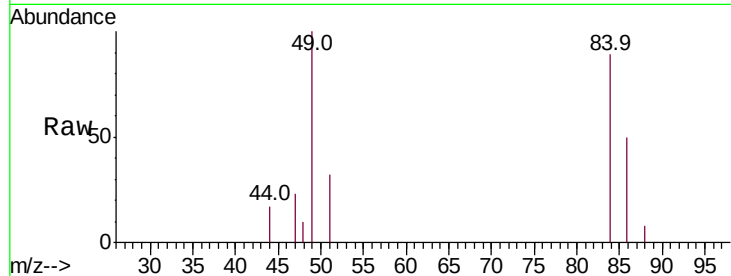




#20
Methvlene Chloride
Concen: 2.671 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

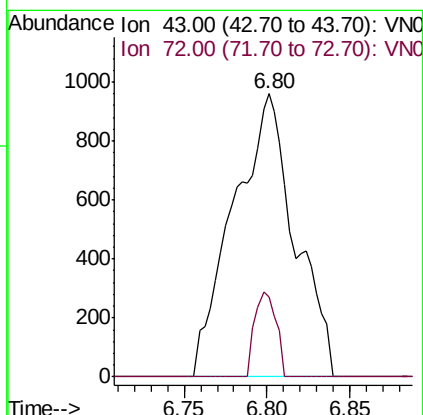
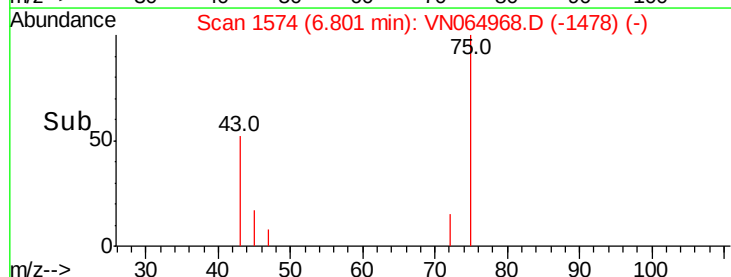
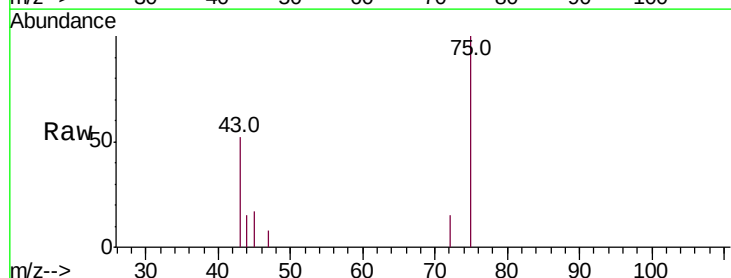
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#05

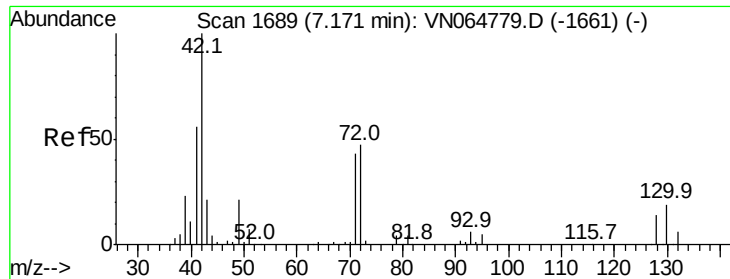
Tot Ion: 84 Resp: 5404
Ion Ratio Lower Upper
84 100
49 112.7 93.4 140.0
51 35.6 28.2 42.4
86 56.6 51.7 77.5



#25
2-Butanone
Concen: 2.364 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

Tgt Ion: 43 Resp: 2474
Ion Ratio Lower Upper
43 100
72 28.3 21.0 31.6





#29

Tetrahydrofuran

Concen: 0.541 ug/l

RT: 7.16 min Scan# 1686

Delta R.T. -0.01 min

Lab File: VN064968.D

Acq: 8 Dec 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#05

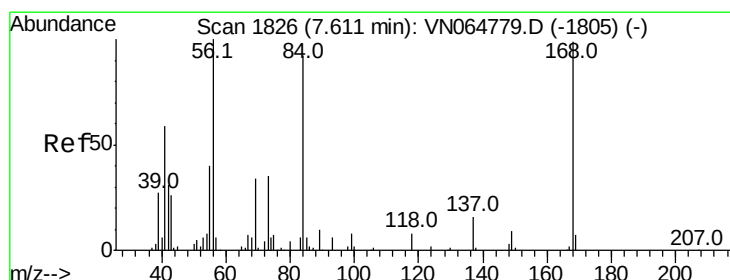
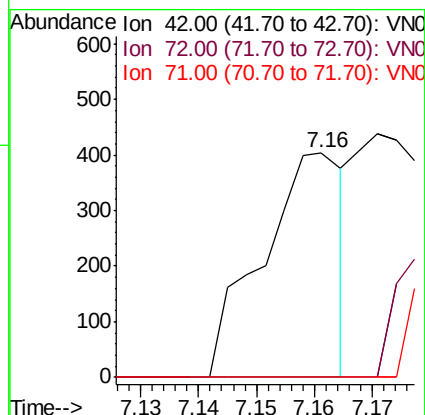
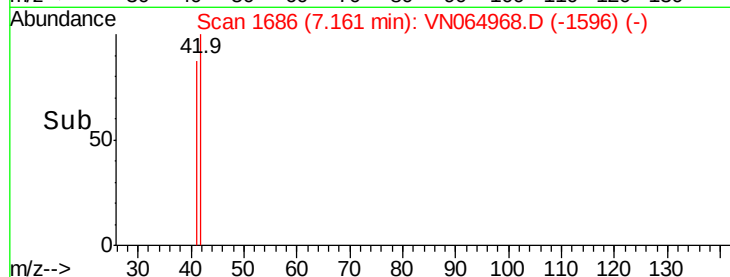
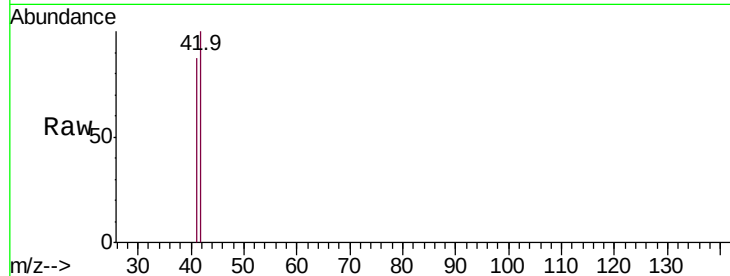
Tot Ion: 42 Resp: 391

Ion Ratio Lower Upper

42 100

72 45.8 36.6 54.8

71 7.9 33.6 50.4#



#31

Cyclohexane

Concen: 1.001 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN064968.D

Acq: 8 Dec 2020 14:37

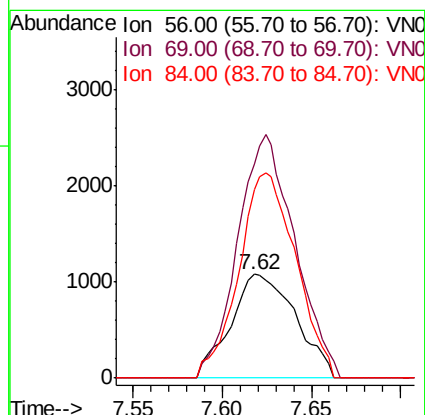
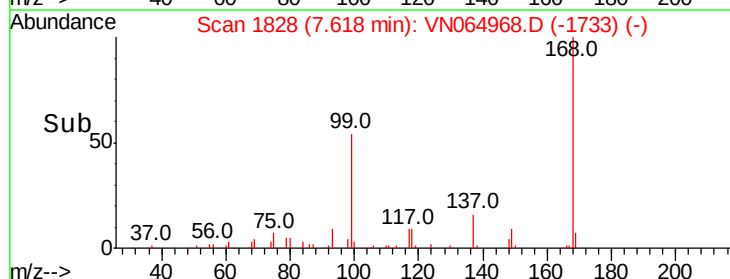
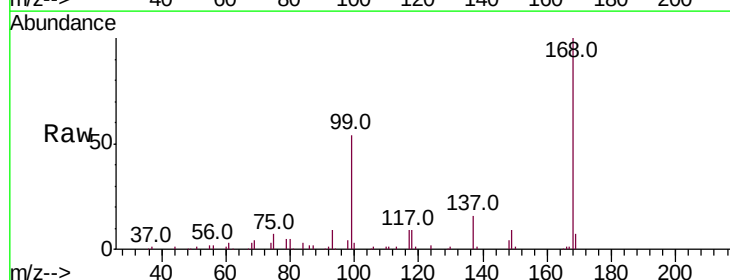
Tgt Ion: 56 Resp: 2741

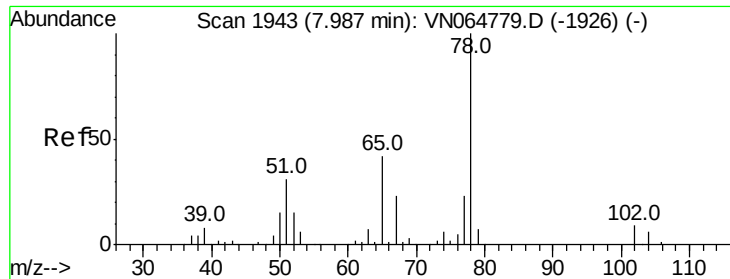
Ion Ratio Lower Upper

56 100

69 206.6 27.5 41.3#

84 182.0 73.9 110.9#

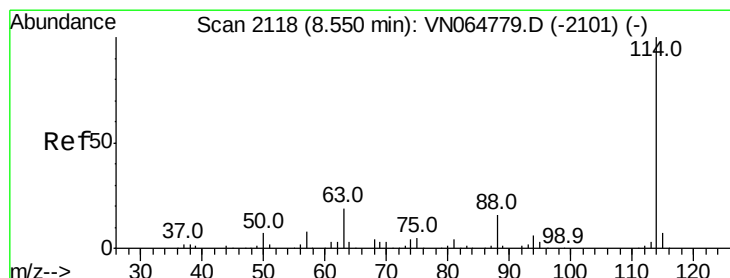
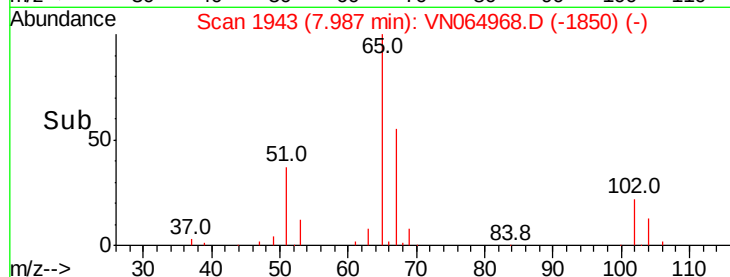
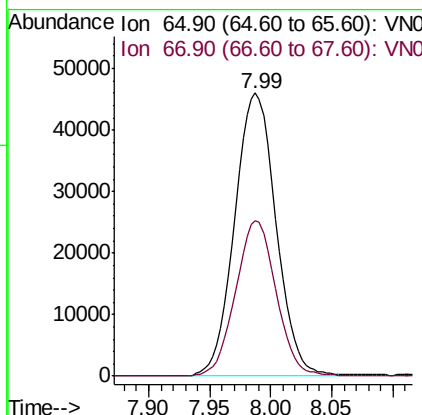
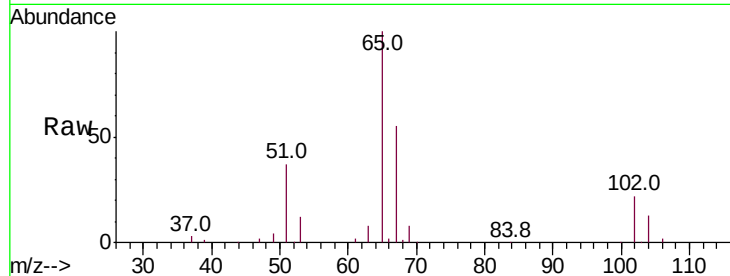




#33
 1,2-Dichloroethane-d4
 Concen: 55.033 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064968.D
 Acq: 8 Dec 2020 14:37

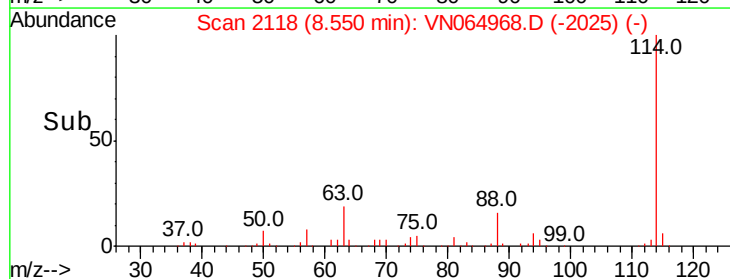
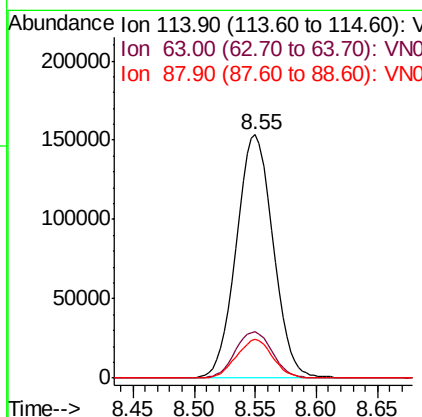
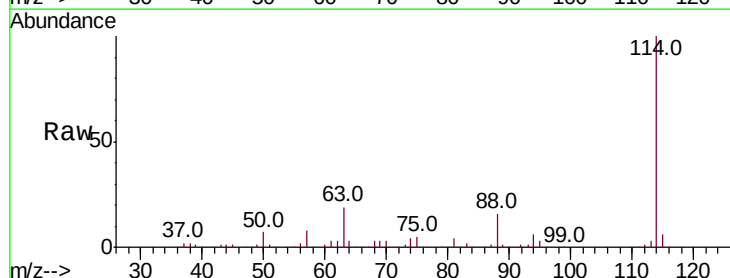
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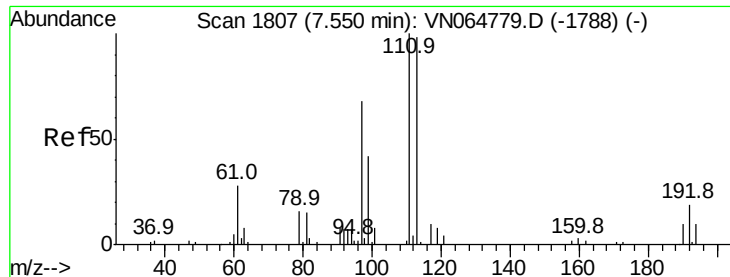
Tot Ion: 65 Resp: 108080
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064968.D
 Acq: 8 Dec 2020 14:37

Tgt Ion: 114 Resp: 320994
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 15.7 0.0 32.6

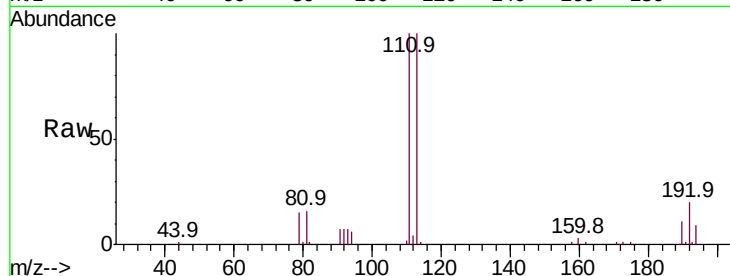




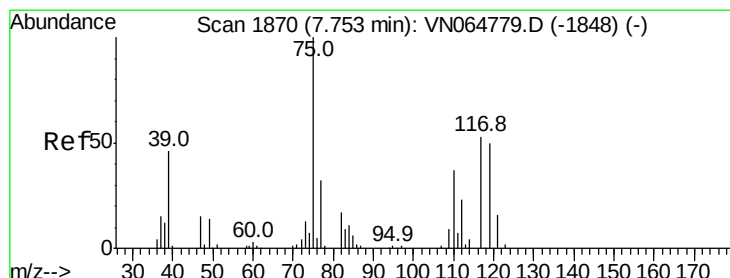
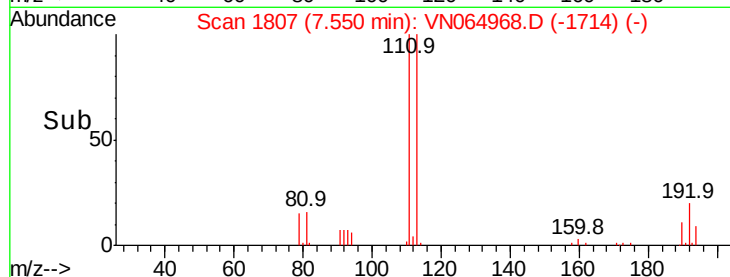
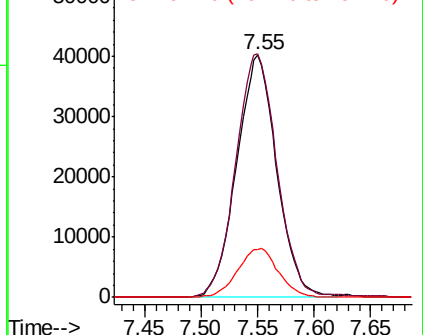
#35
 Dibromofluoromethane
 Concen: 51.505 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064968.D
 Acq: 8 Dec 2020 14:37

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#05

Tot Ion:113 Resp: 98926
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.6 122.4
 192 20.5 16.2 24.2

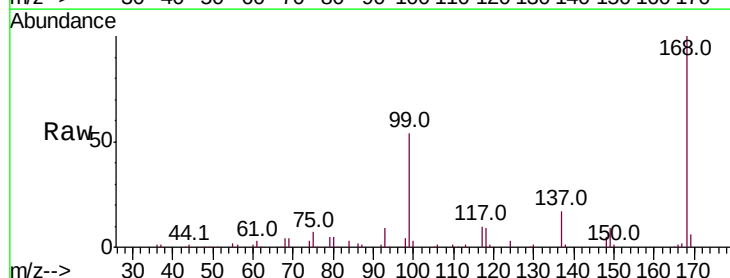


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

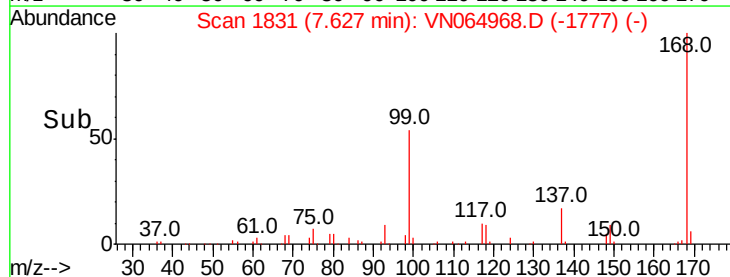
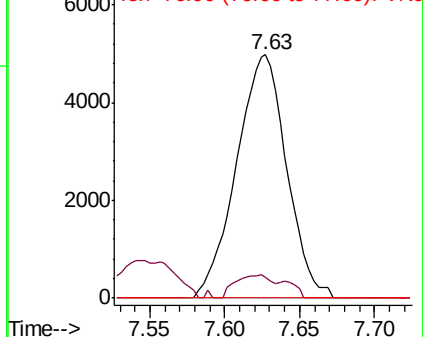


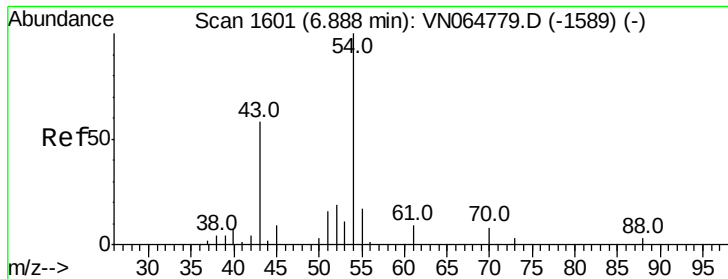
#36
 1,1-Dichloropropene
 Concen: 3.902 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064968.D
 Acq: 8 Dec 2020 14:37

Tgt Ion: 75 Resp: 11611
 Ion Ratio Lower Upper
 75 100
 110 6.8 17.8 53.3#
 77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO

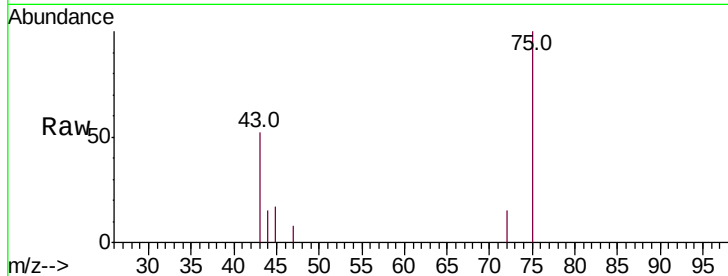




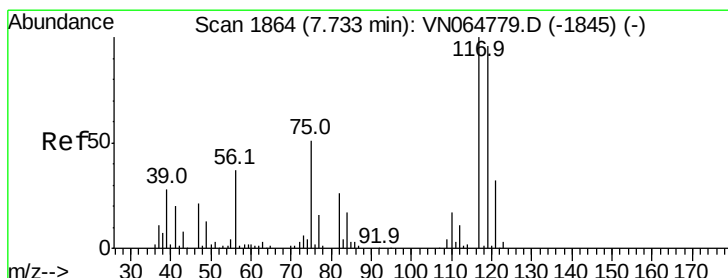
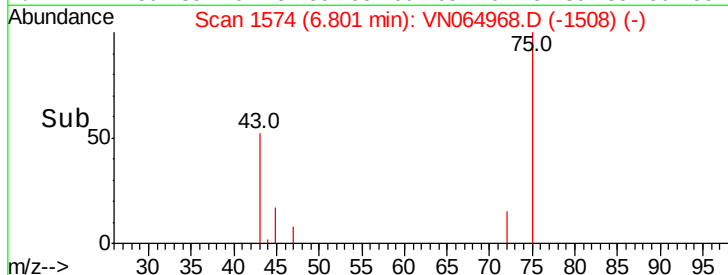
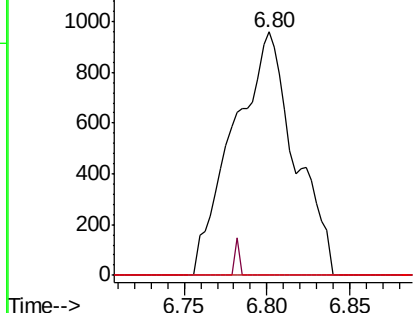
#37
Ethyl Acetate
Concen: 0.863 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. -0.09 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#05

Tot Ion: 43 Resp: 2474
Ion Ratio Lower Upper
43 100
61 1.2 12.8 19.2#
70 0.0 8.8 13.2#

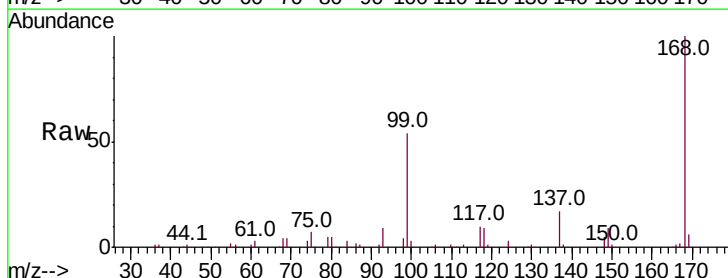


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

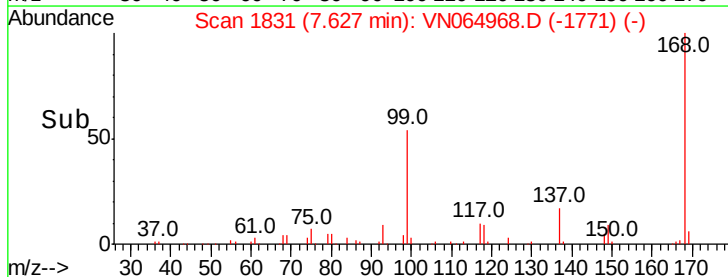
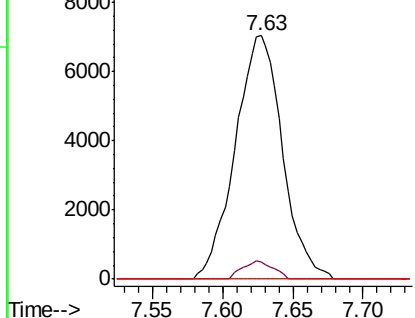


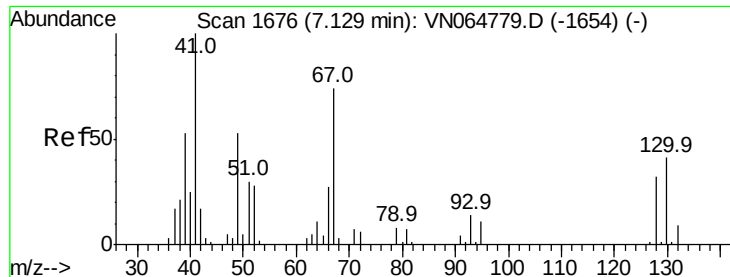
#38
Carbon Tetrachloride
Concen: 5.320 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

Tgt Ion: 117 Resp: 16469
Ion Ratio Lower Upper
117 100
119 6.9 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

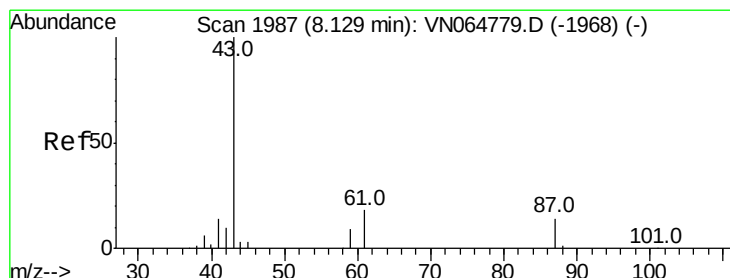
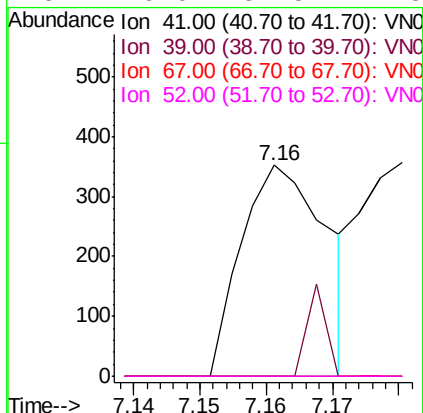
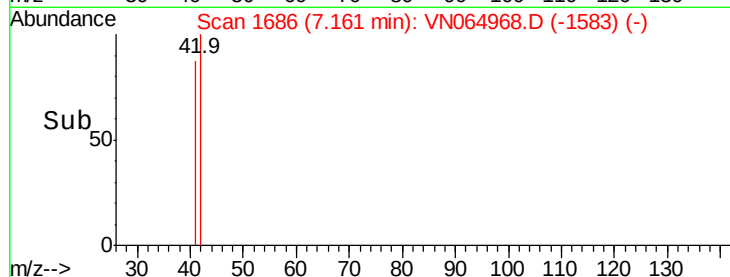
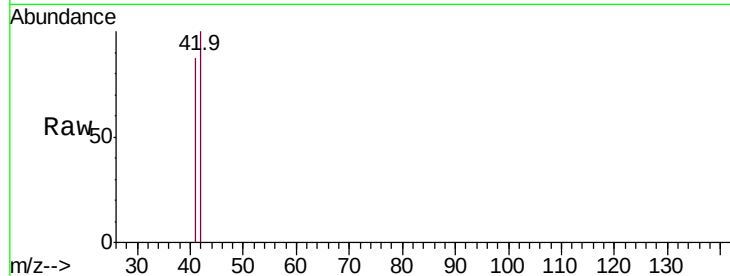




#41
Methacrylonitrile
Concen: 0.237 ug/l
RT: 7.16 min Scan# 1686
Delta R.T. 0.03 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

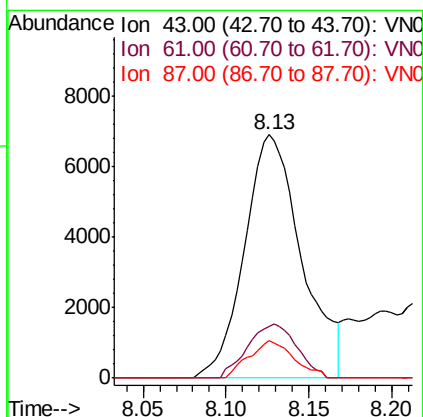
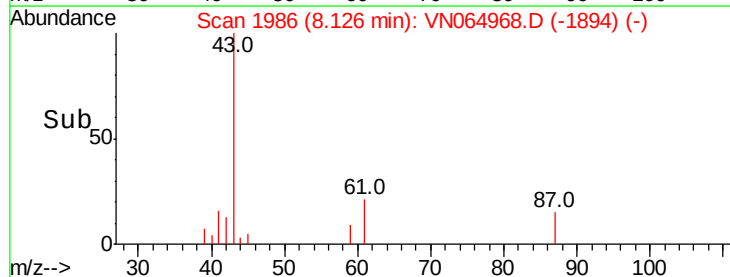
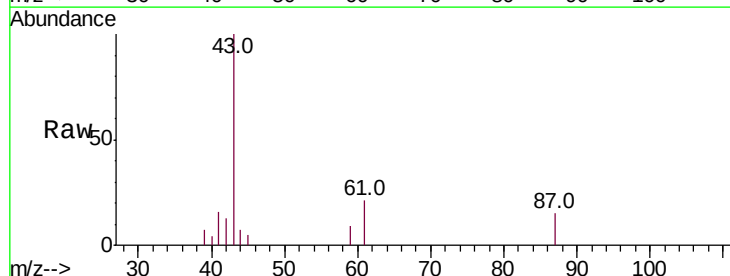
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#05

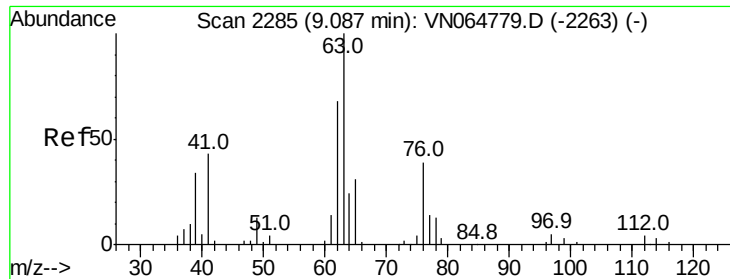
Tot Ion: 41 Resp: 314
Ion Ratio Lower Upper
41 100
39 9.6 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



#43
Isopropyl Acetate
Concen: 3.594 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. -0.00 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

Tgt Ion: 43 Resp: 16575
Ion Ratio Lower Upper
43 100
61 19.1 17.2 25.8
87 12.2 11.4 17.0





#45

1,2-Dichloropropane

Concen: 0.290 ug/l

RT: 9.23 min Scan# 2328

Delta R.T. 0.14 min

Lab File: VN064968.D

Acq: 8 Dec 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

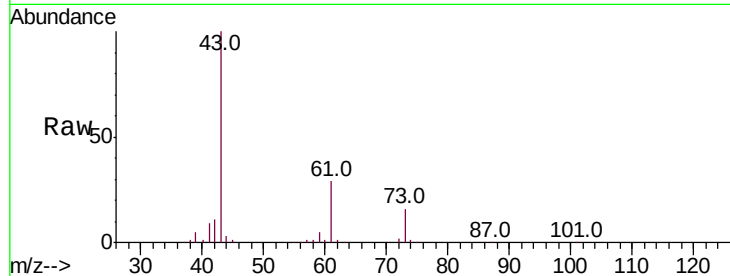
PB133456ZHE#05

Tot Ion: 63 Resp: 685

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

9.23

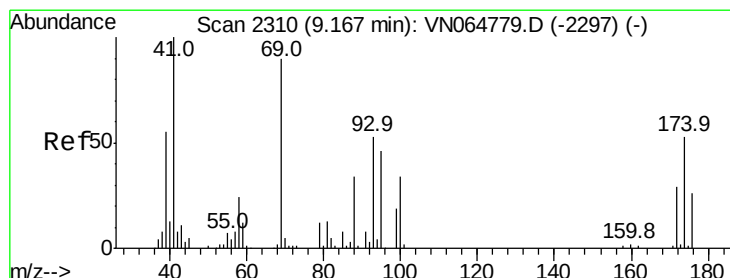
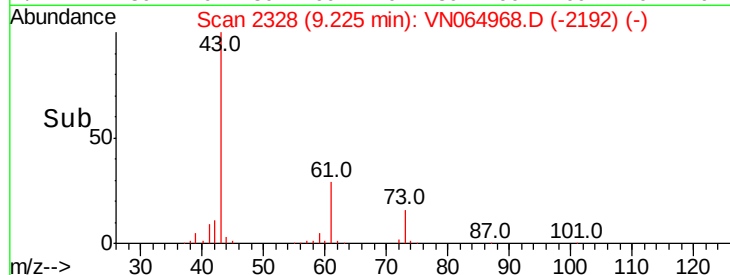
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.932 ug/l

RT: 9.14 min Scan# 2301

Delta R.T. -0.03 min

Lab File: VN064968.D

Acq: 8 Dec 2020 14:37

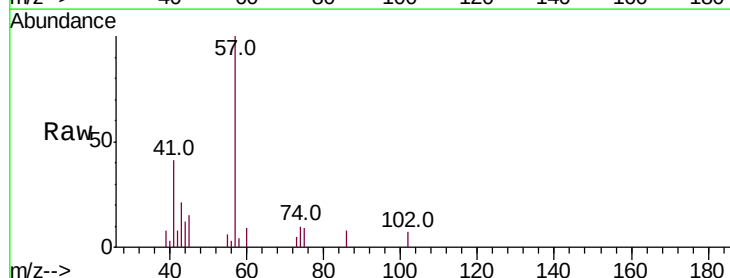
Tgt Ion: 41 Resp: 4258

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

40000

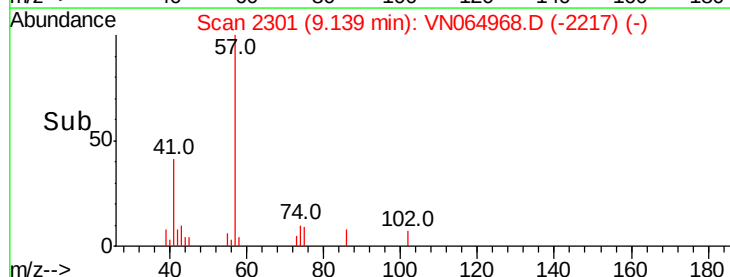
30000

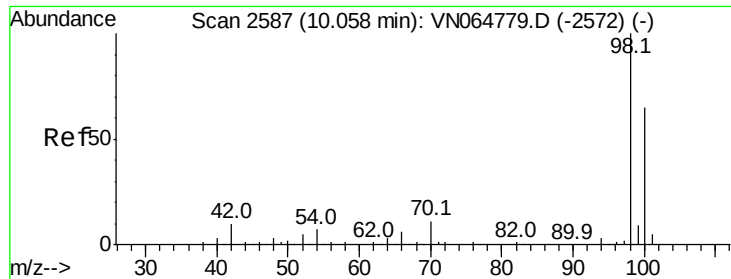
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 51.737 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064968.D

Acq: 8 Dec 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

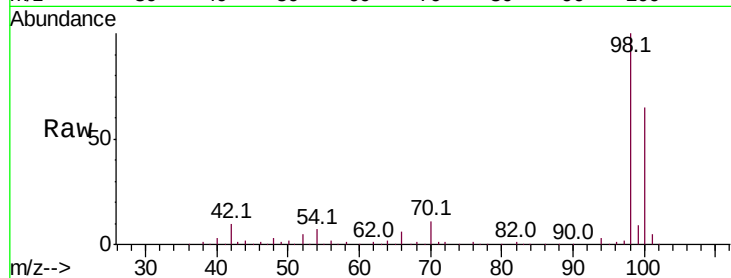
PB133456ZHE#05

Tot Ion: 98 Resp: 406025

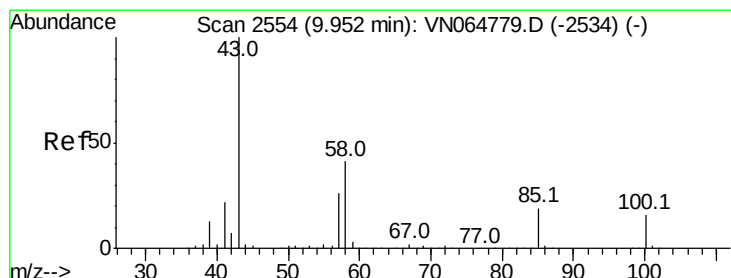
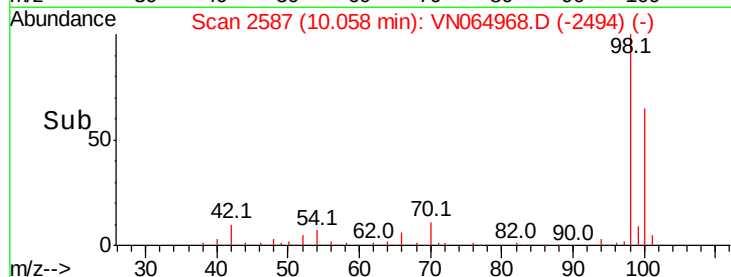
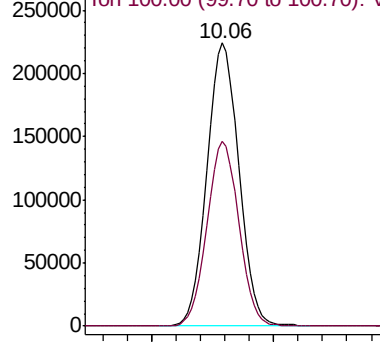
Ion Ratio Lower Upper

98 100

100 65.1 51.7 77.5



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



#51

4-Methyl-2-Pentanone

Concen: 1.431 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064968.D

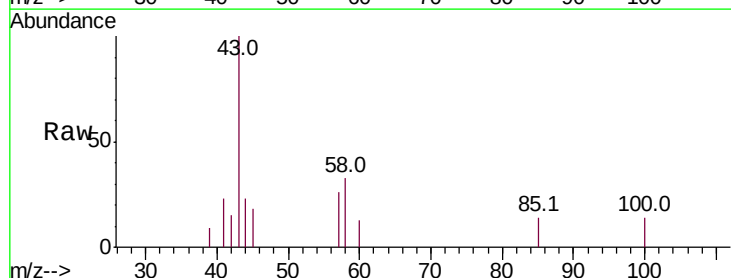
Acq: 8 Dec 2020 14:37

Tgt Ion: 43 Resp: 3962

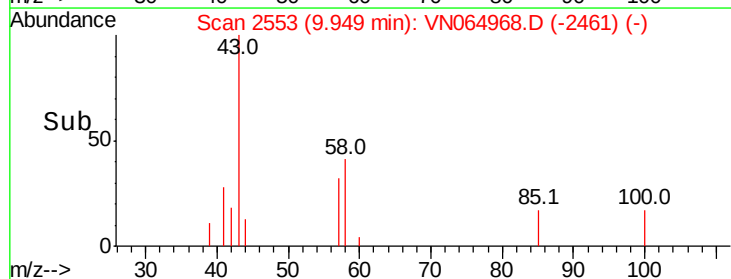
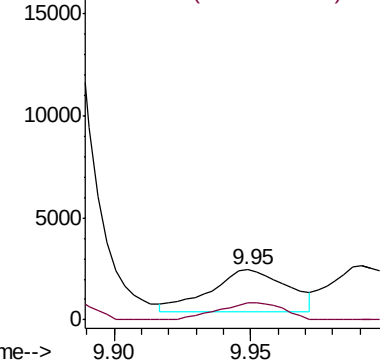
Ion Ratio Lower Upper

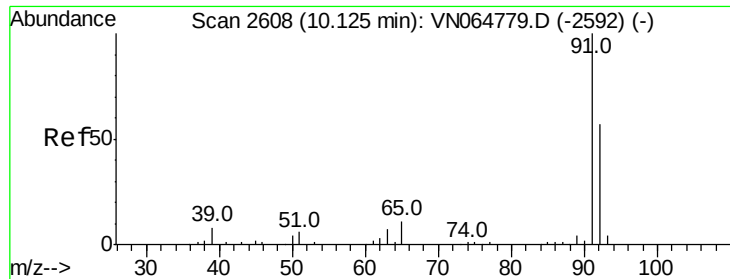
43 100

58 35.5 32.4 48.6



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





#52

Toluene

Concen: 0.266 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064968.D

Acq: 8 Dec 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

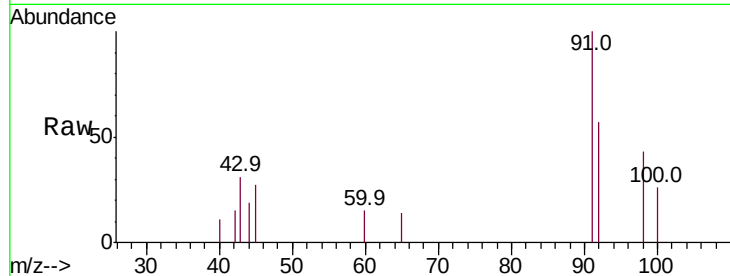
PB133456ZHE#05

Tot Ion: 92 Resp: 1495

Ion Ratio Lower Upper

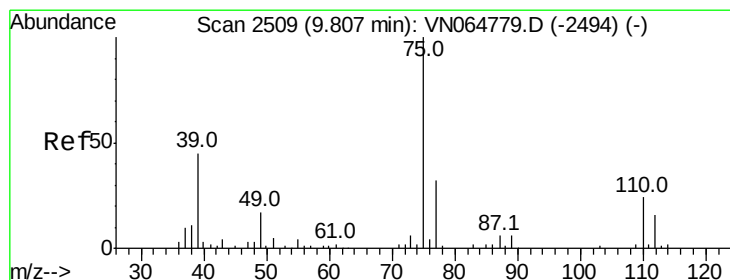
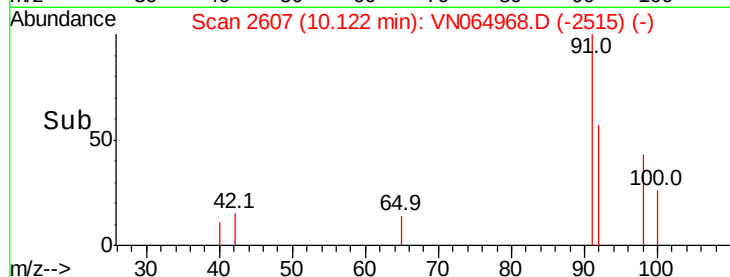
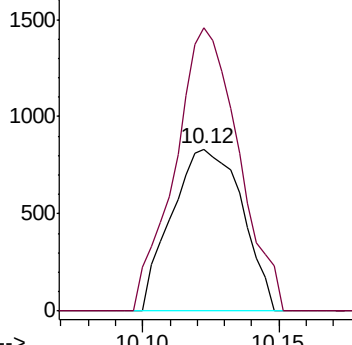
92 100

91 158.1 139.1 208.7



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: 7.961 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064968.D

Acq: 8 Dec 2020 14:37

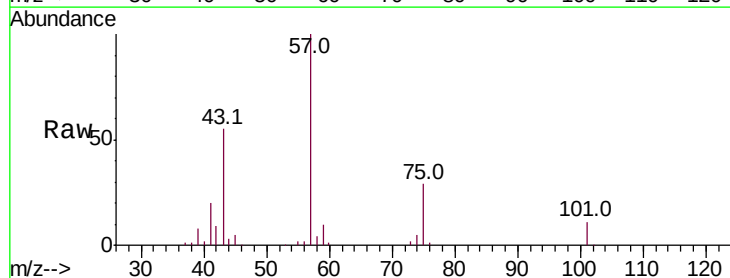
Tgt Ion: 75 Resp: 30164

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

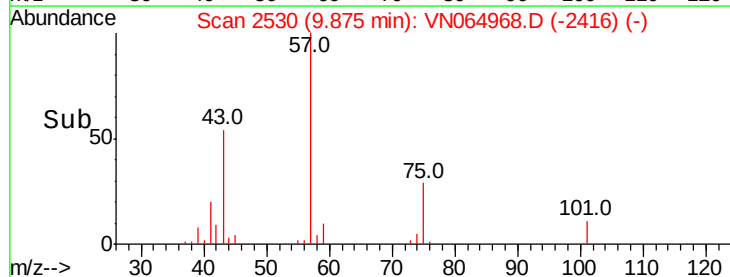
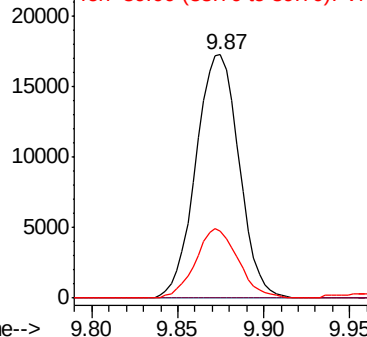
39 27.5 35.6 53.4#

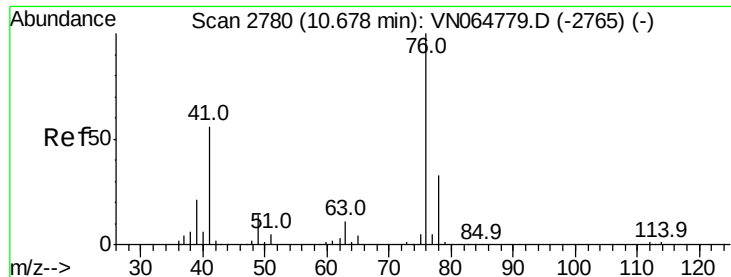


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

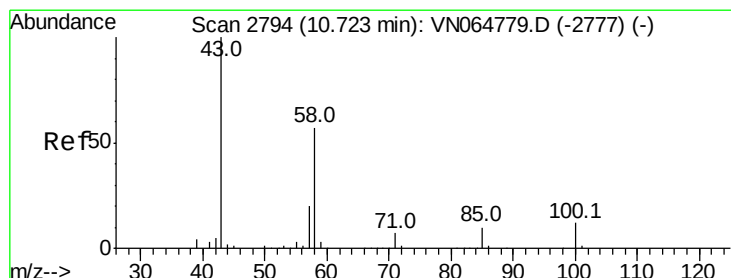
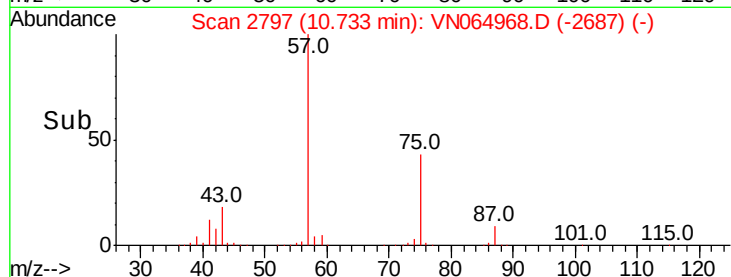
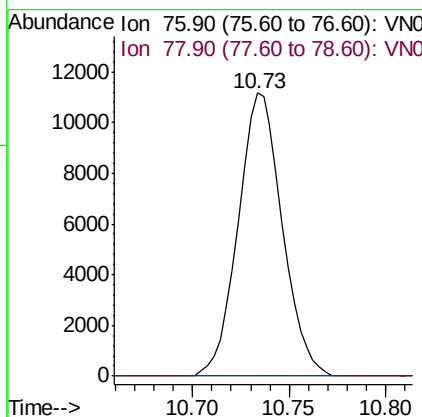
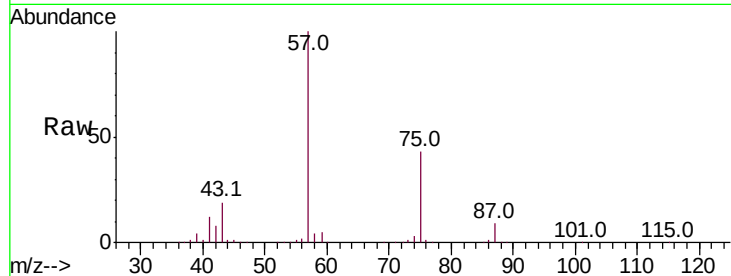




#57
 1,3-Dichloropropane
 Concen: 4.636 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064968.D
 Acq: 8 Dec 2020 14:37

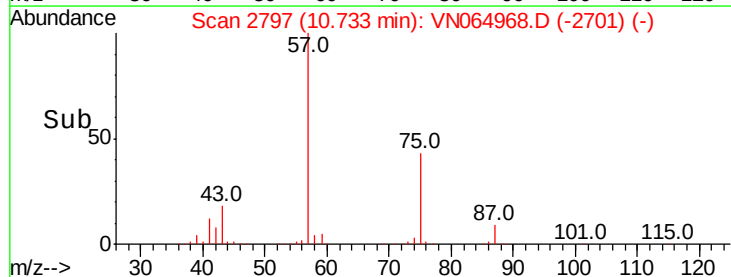
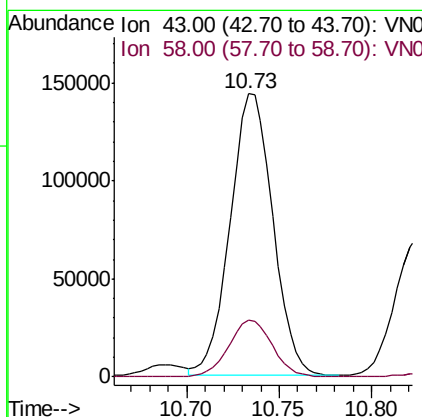
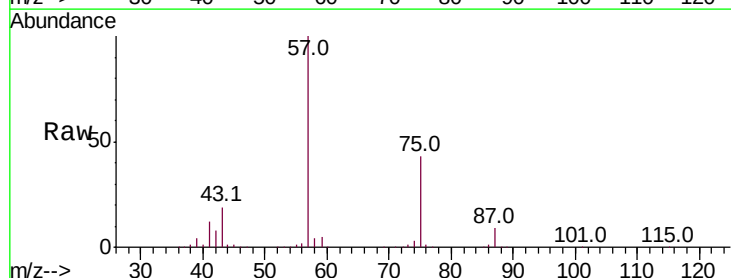
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#05

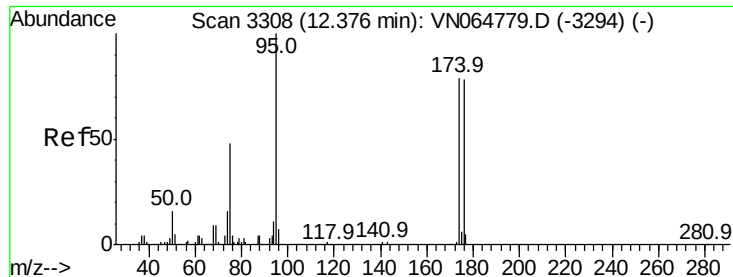
Tot Ion: 76 Resp: 17656
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#



#59
 2-Hexanone
 Concen: 115.506 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN064968.D
 Acq: 8 Dec 2020 14:37

Tgt Ion: 43 Resp: 230153
 Ion Ratio Lower Upper
 43 100
 58 20.6 28.3 84.9#

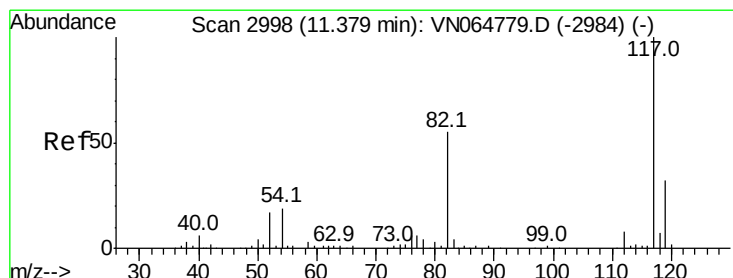
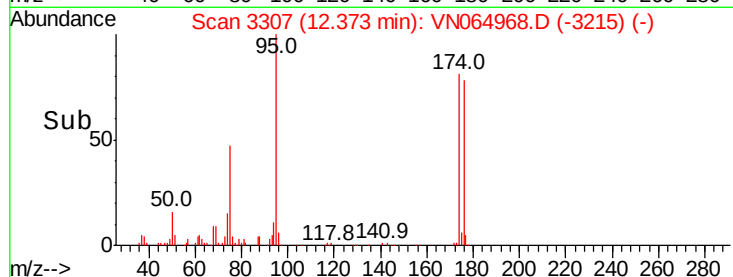
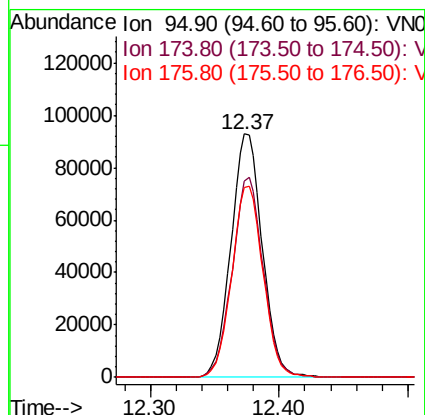
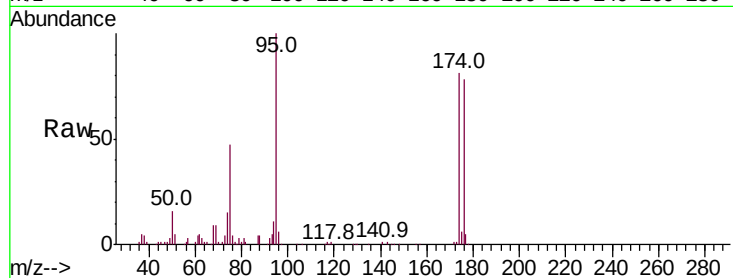




#62
4-Bromofluorobenzene
Concen: 55.763 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

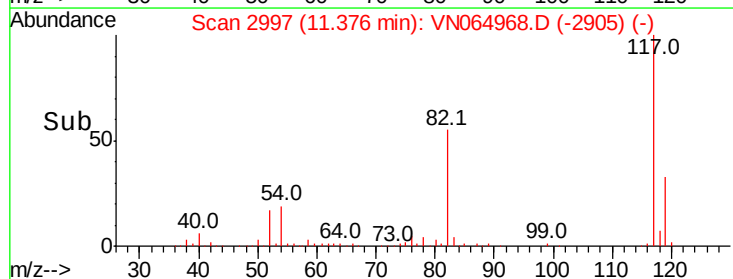
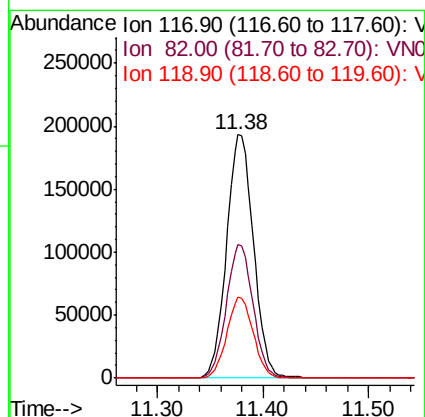
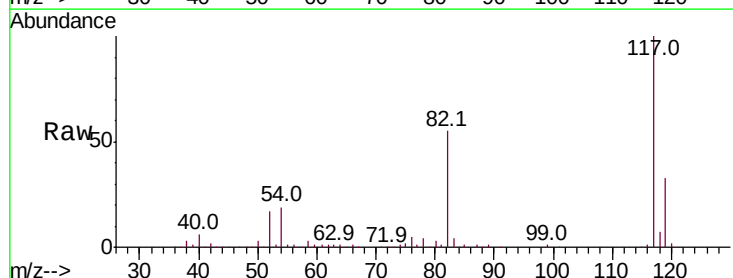
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#05

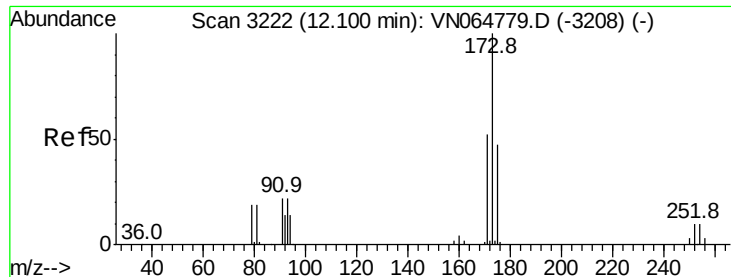
Tot Ion: 95 Resp: 156616
Ion Ratio Lower Upper
95 100
174 81.3 0.0 160.4
176 78.7 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

Tgt Ion: 117 Resp: 341310
Ion Ratio Lower Upper
117 100
82 55.0 44.2 66.2
119 33.1 25.8 38.6

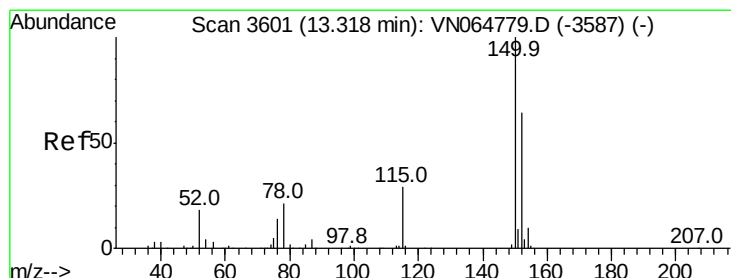
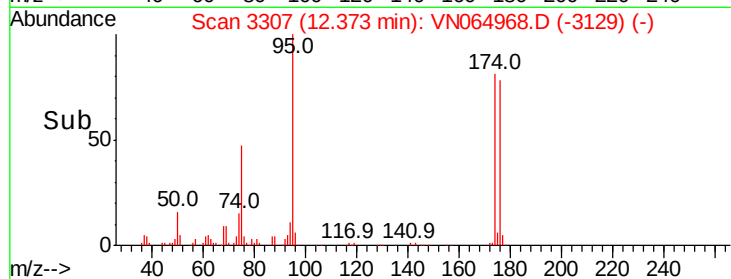
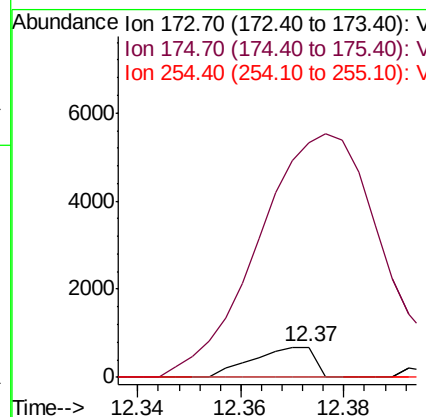
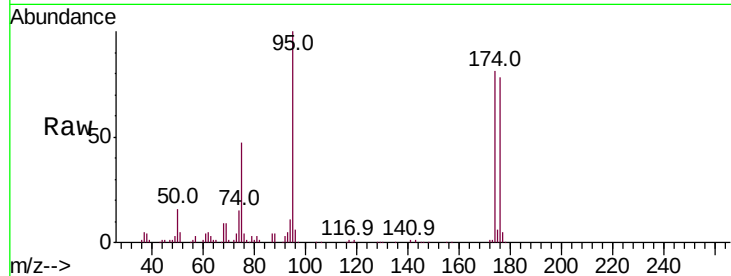




#71
Bromoform
Concen: 0.262 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

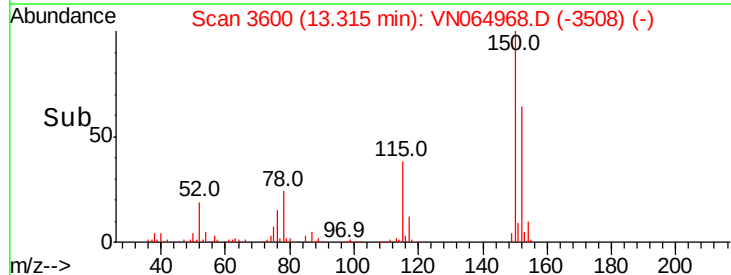
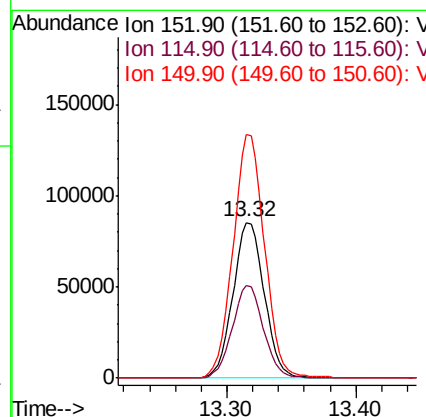
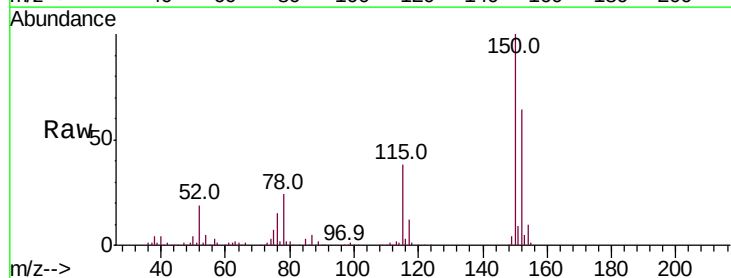
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#05

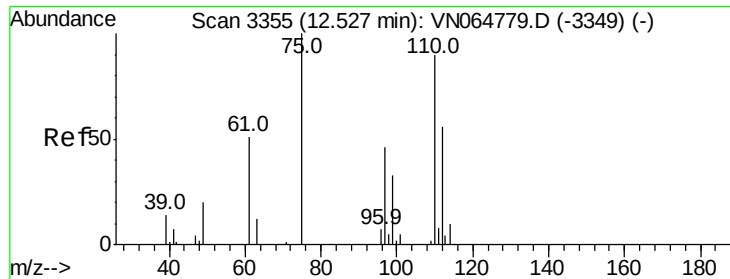
Tot Ion:173 Resp: 563
Ion Ratio Lower Upper
173 100
175 1427.5 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3600
Delta R.T. -0.00 min
Lab File: VN064968.D
Acq: 8 Dec 2020 14:37

Tgt Ion:152 Resp: 143749
Ion Ratio Lower Upper
152 100
115 59.3 29.7 89.1
150 157.2 0.0 350.6

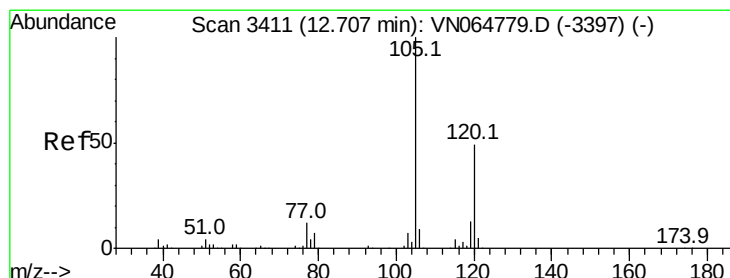
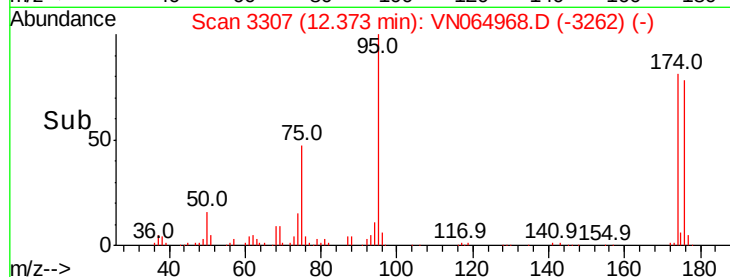
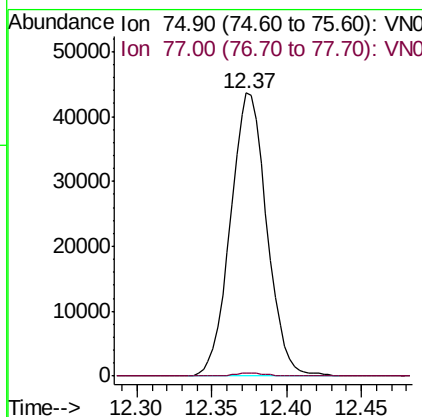
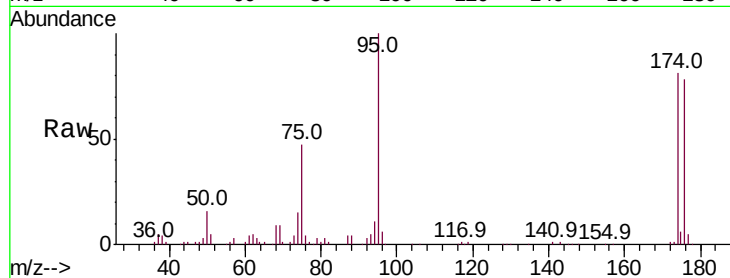




#76
 1,2,3-Trichloropropane
 Concen: 23.822 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN064968.D
 Acq: 8 Dec 2020 14:37

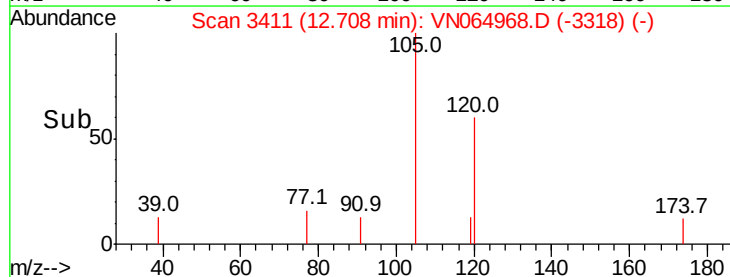
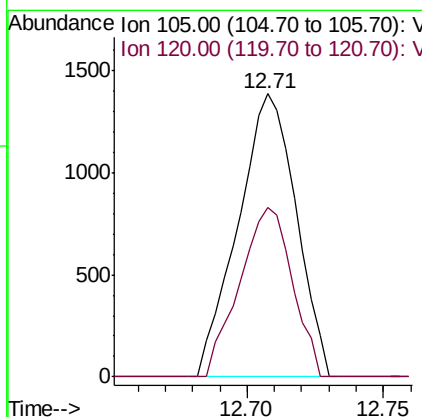
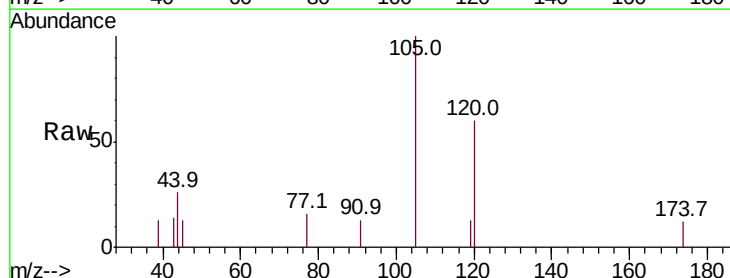
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#05

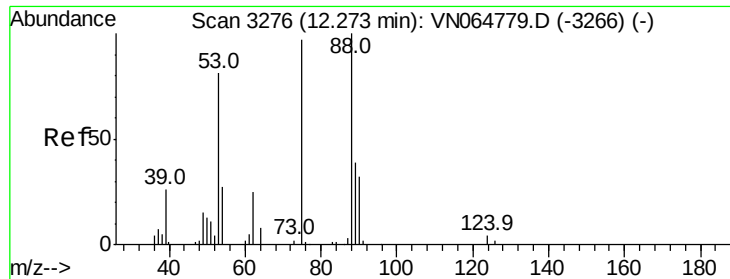
Tot Ion: 75 Resp: 73747
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.246 ug/l
 RT: 12.71 min Scan# 3411
 Delta R.T. 0.00 min
 Lab File: VN064968.D
 Acq: 8 Dec 2020 14:37

Tgt Ion: 105 Resp: 2048
 Ion Ratio Lower Upper
 105 100
 120 54.2 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 65.290 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064968.D

Acq: 8 Dec 2020 14:37

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#05

Tot Ion: 75 Resp: 73747

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

