

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064967.D
 Acq On : 8 Dec 2020 14:13
 Operator : JC/MD
 Sample : PB133456ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#04

Quant Time: Dec 09 06:52:04 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	172919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	321569	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	338395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	143931	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	108737	54.09	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	108.18%
35) Dibromofluoromethane	7.55	113	101073	52.53	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	105.06%
50) Toluene-d8	10.06	98	405258	51.55	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	103.10%
62) 4-Bromofluorobenzene	12.38	95	154144	54.78	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	109.56%

Target Compounds

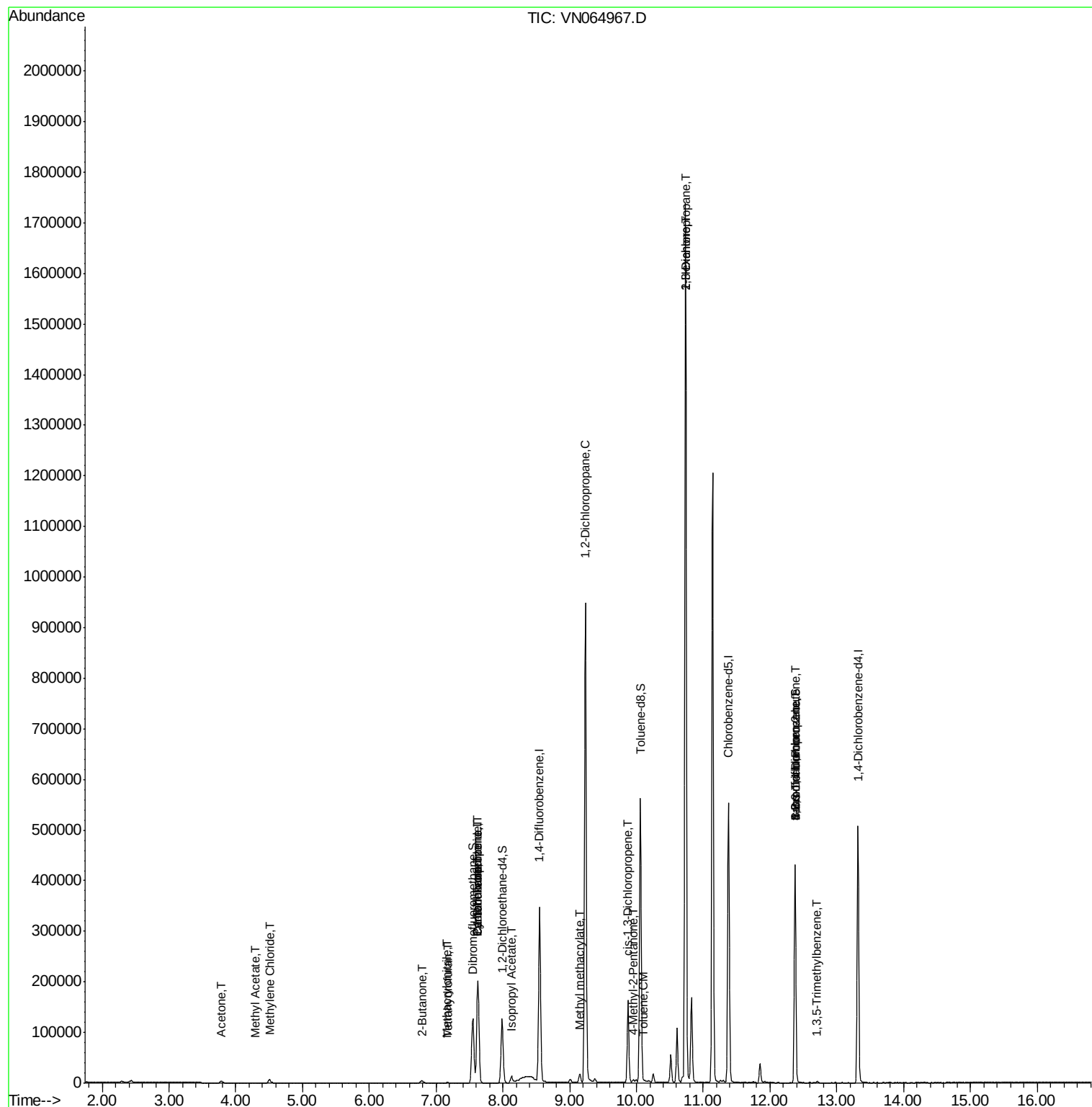
					Qvalue	
16) Acetone	3.78	43	5692	8.613	ug/l	92
18) Methyl Acetate	4.29	43	568	0.286	ug/l #	50
20) Methylene Chloride	4.51	84	4924	2.378	ug/l	94
25) 2-Butanone	6.79	43	2050	1.914	ug/l	92
29) Tetrahydrofuran	7.18	42	1093	1.478	ug/l #	36
31) Cyclohexane	7.63	56	3044	1.086	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	12112	4.064	ug/l #	45
38) Carbon Tetrachloride	7.62	117	16304	5.257	ug/l #	17
41) Methacrylonitrile	7.16	41	300	0.226	ug/l #	25
43) Isopropyl Acetate	8.13	43	16813	3.639	ug/l	95
45) 1,2-Dichloropropane	9.24	63	1173	0.496	ug/l #	43
48) Methyl methacrylate	9.15	41	3712	1.681	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3670	1.323	ug/l	95
52) Toluene	10.12	92	1582	0.281	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	31473	8.291	ug/l #	61
57) 1,3-Dichloropropane	10.74	76	17484	4.582	ug/l #	42
59) 2-Hexanone	10.74	43	236034	118.246	ug/l #	50
71) Bromoform	12.37	173	763	0.358	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	73832	23.819	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	2228	0.268	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.37	75	73832	65.283	ug/l #	15

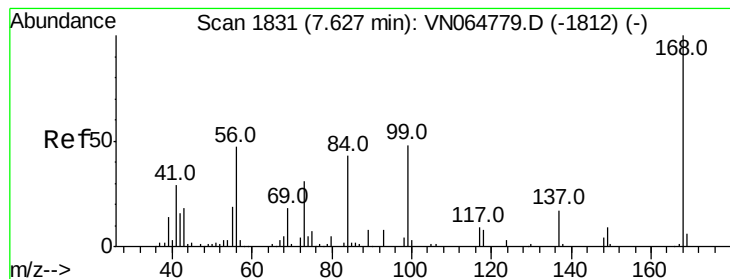
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

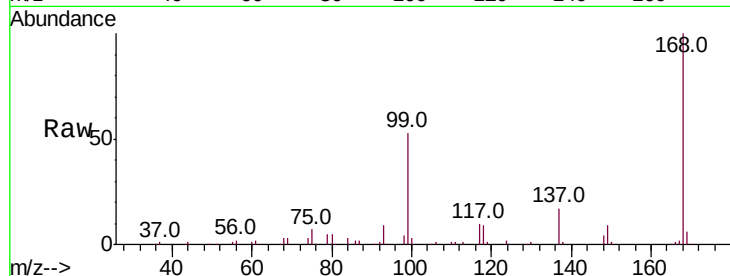
PB133456ZHE#04

Tot Ion:168 Resp: 172919

Ion Ratio Lower Upper

168 100

99 53.2 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

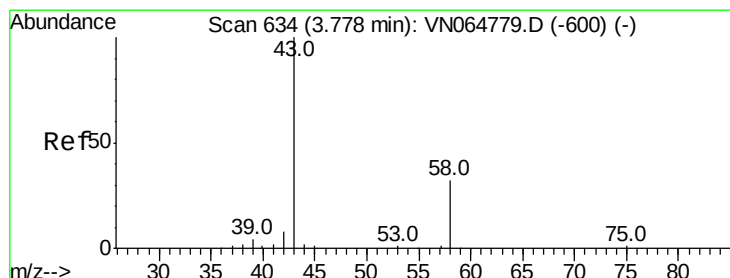
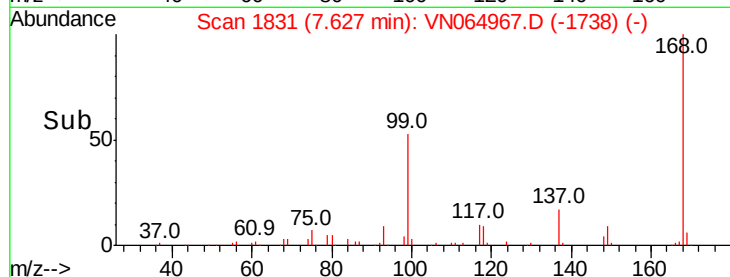
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 8.613 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064967.D

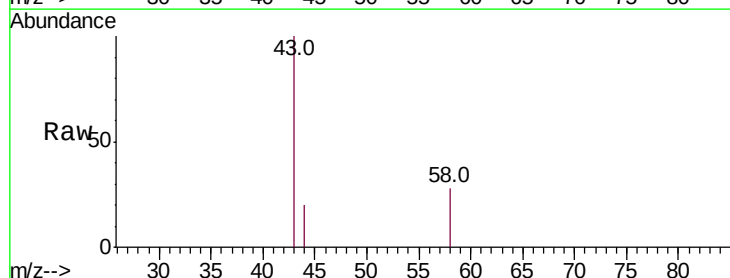
Acq: 8 Dec 2020 14:13

Tgt Ion: 43 Resp: 5692

Ion Ratio Lower Upper

43 100

58 27.6 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

2500

2000

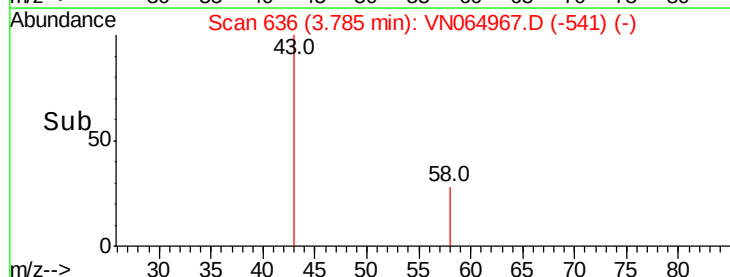
1500

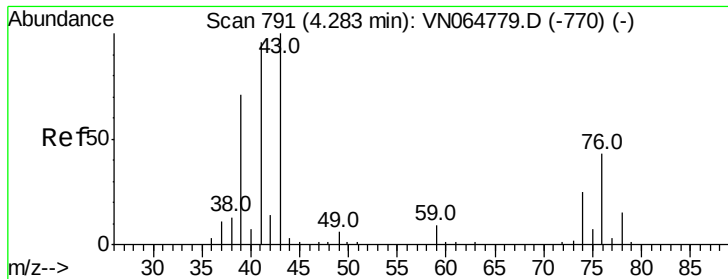
1000

500

0

Time--> 3.70 3.75 3.80 3.85

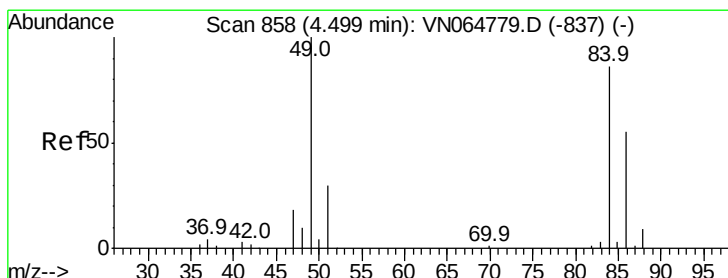
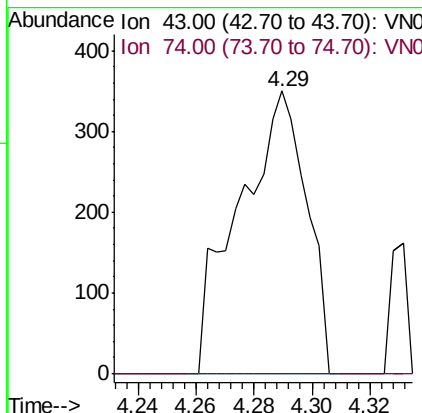
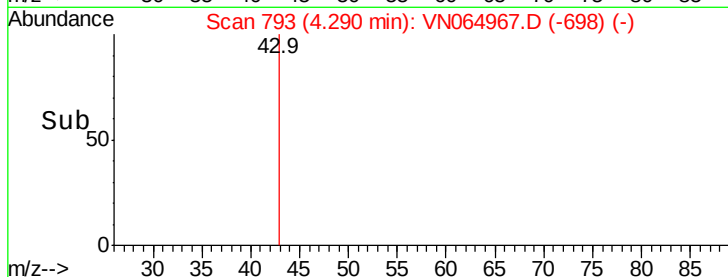
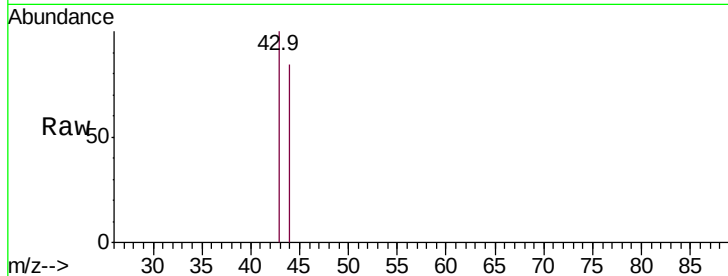




#18
Methyl Acetate
Concen: 0.286 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064967.D
Acq: 8 Dec 2020 14:13

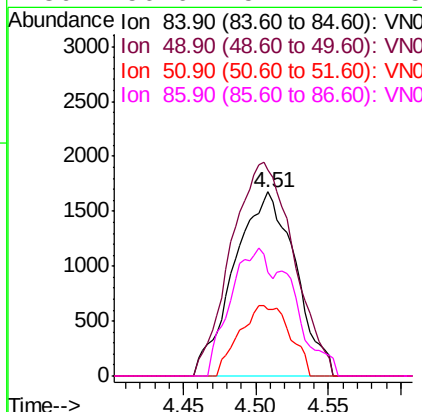
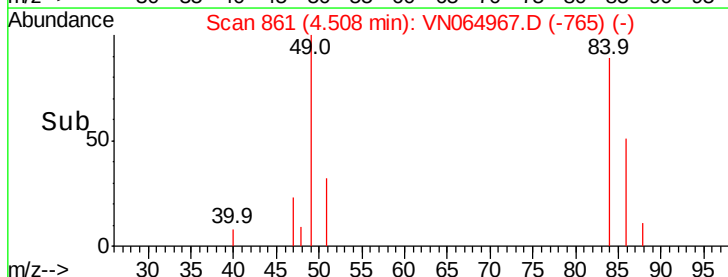
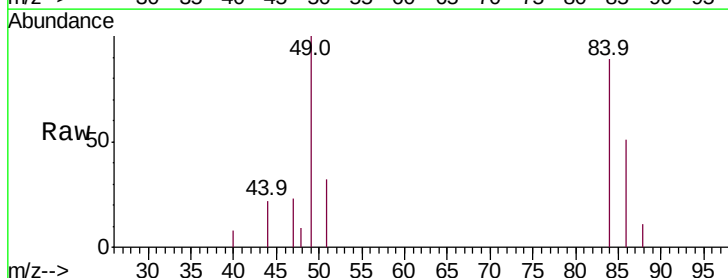
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#04

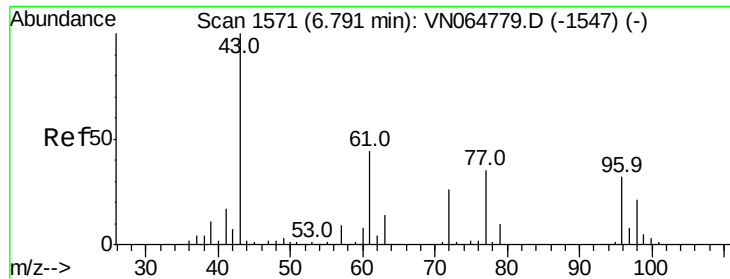
Tot Ion: 43 Resp: 568
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 2.378 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN064967.D
Acq: 8 Dec 2020 14:13

Tgt Ion: 84 Resp: 4924
Ion Ratio Lower Upper
84 100
49 111.9 93.4 140.0
51 36.0 28.2 42.4
86 56.6 51.7 77.5





#25

2-Butanone

Concen: 1.914 ug/l

RT: 6.79 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

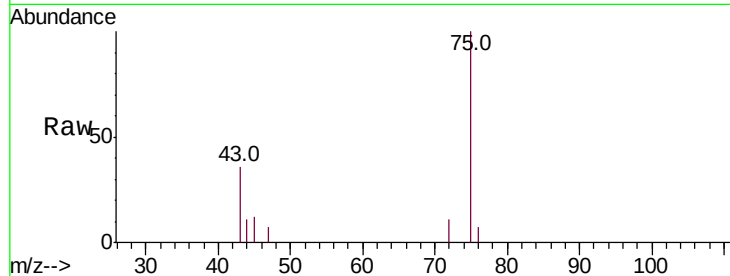
PB133456ZHE#04

Tot Ion: 43 Resp: 2050

Ion Ratio Lower Upper

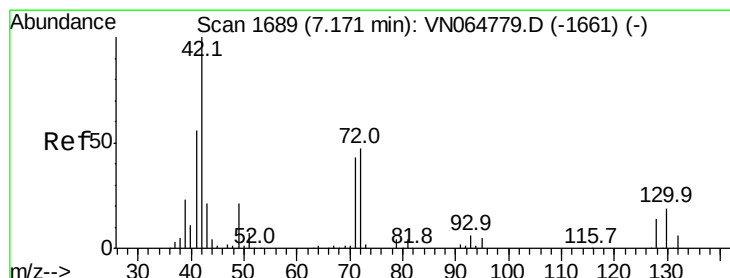
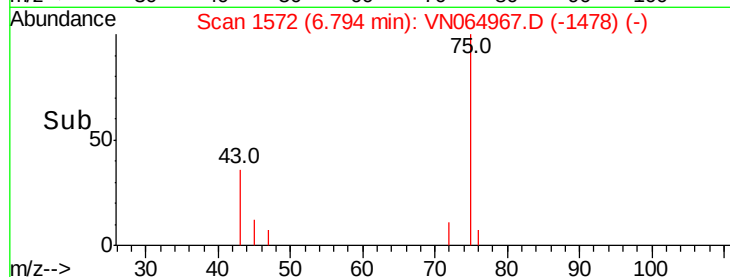
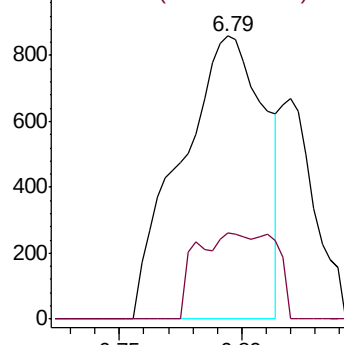
43 100

72 30.6 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: 1.478 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

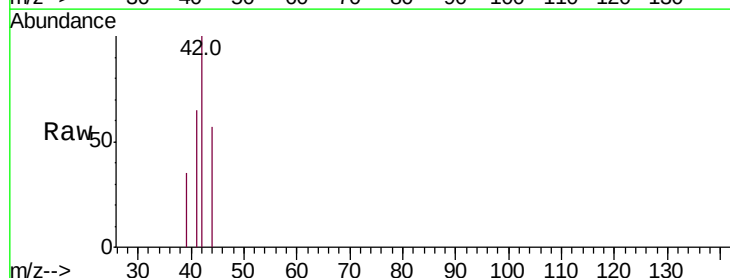
Tgt Ion: 42 Resp: 1093

Ion Ratio Lower Upper

42 100

72 0.0 36.6 54.8#

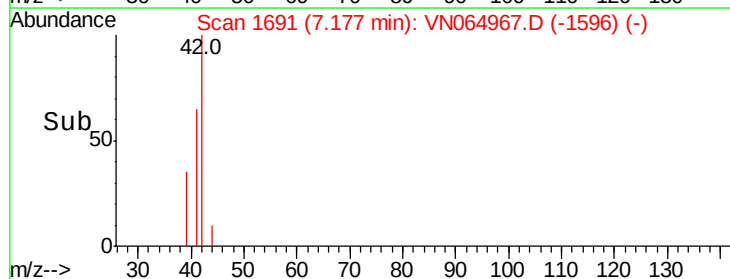
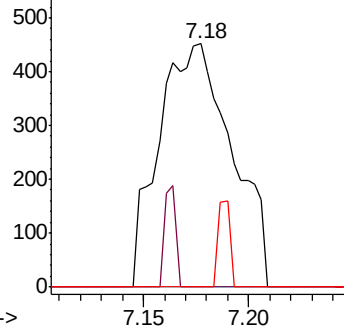
71 5.6 33.6 50.4#

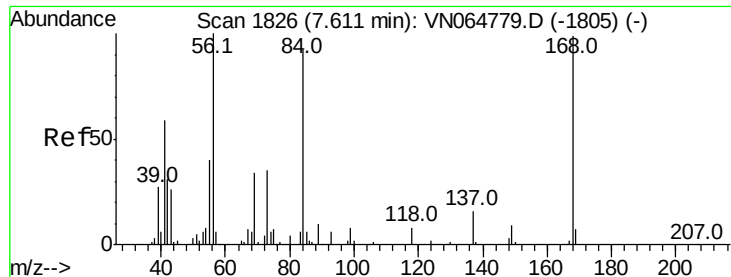


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 1.086 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#04

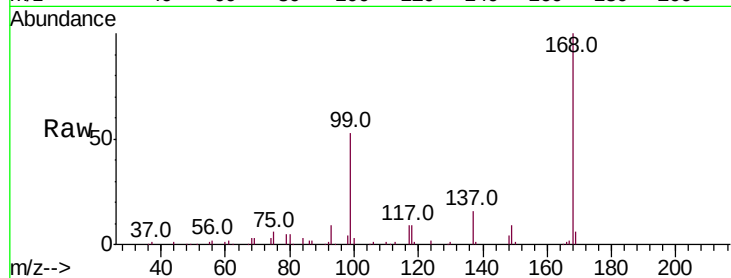
Tot Ion: 56 Resp: 3044

Ion Ratio Lower Upper

56 100

69 160.0 27.5 41.3#

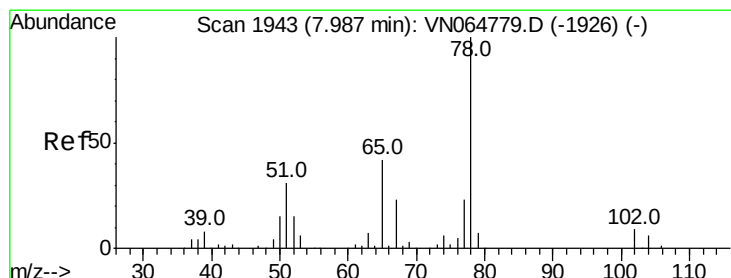
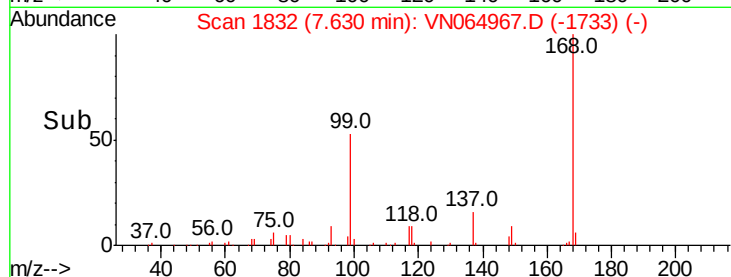
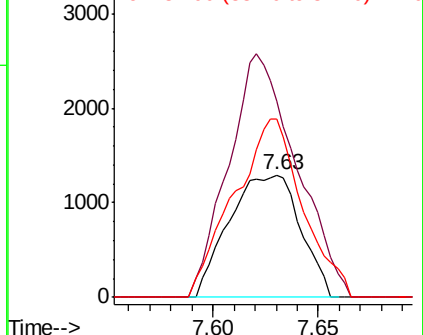
84 145.1 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 54.090 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN064967.D

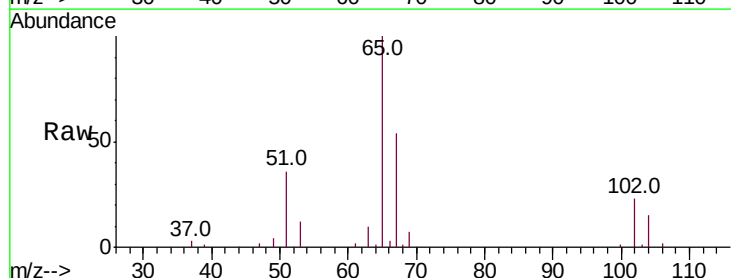
Acq: 8 Dec 2020 14:13

Tgt Ion: 65 Resp: 108737

Ion Ratio Lower Upper

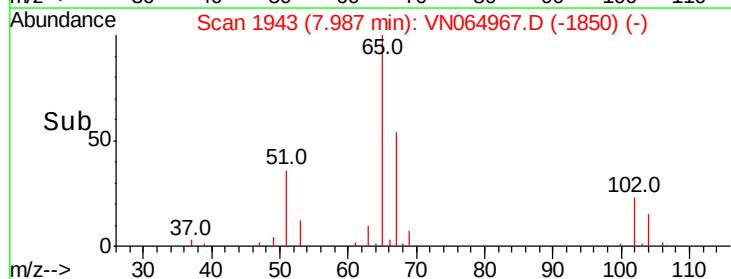
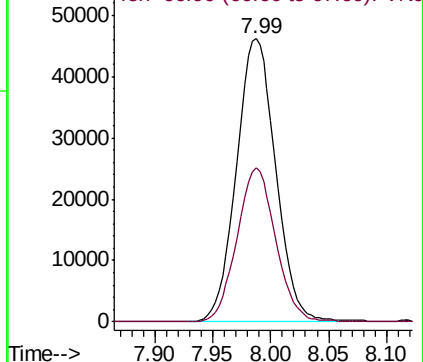
65 100

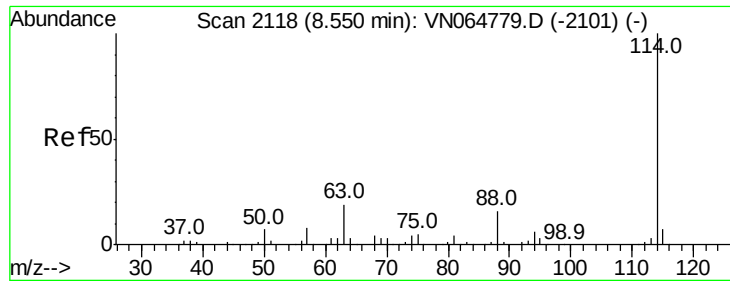
67 53.7 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC

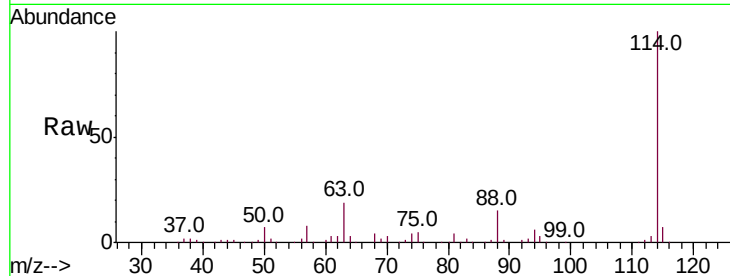




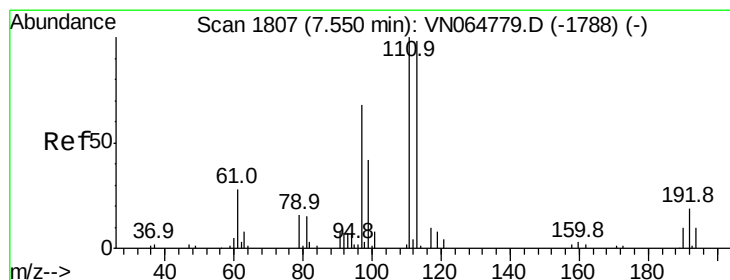
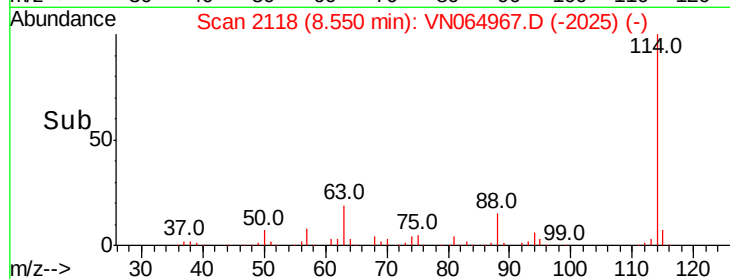
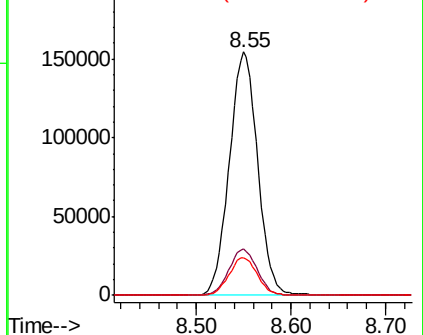
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064967.D
 Acq: 8 Dec 2020 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#04

Tot Ion:	114	Resp:	321569
Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	38.6
88	15.4	0.0	32.6

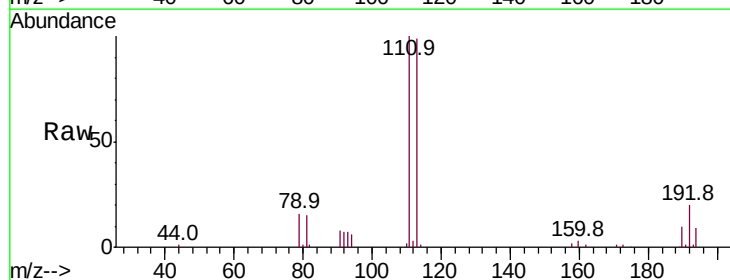


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

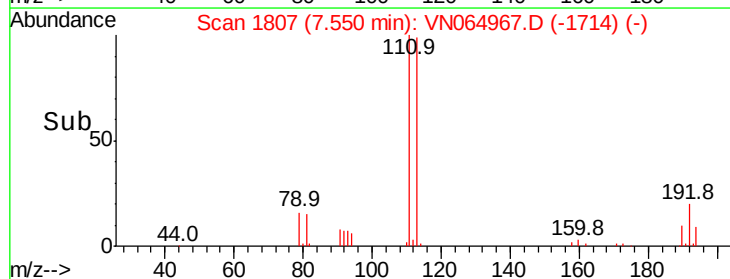
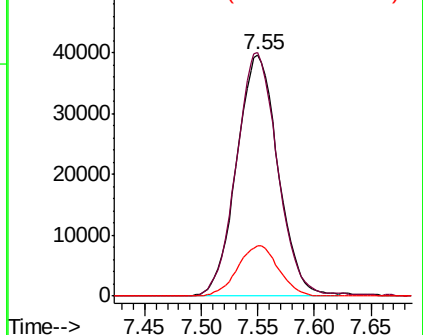


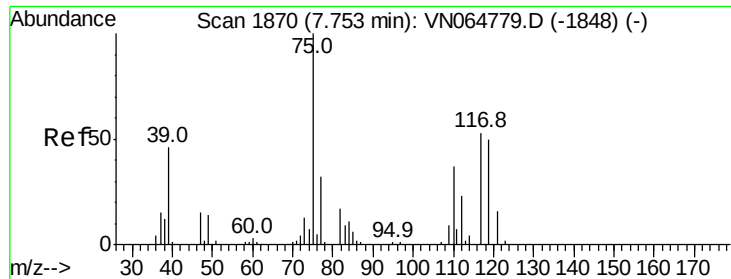
#35
 Dibromofluoromethane
 Concen: 52.528 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: VN064967.D
 Acq: 8 Dec 2020 14:13

Tgt Ion:	113	Resp:	101073
Ion	Ratio	Lower	Upper
113	100		
111	100.2	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

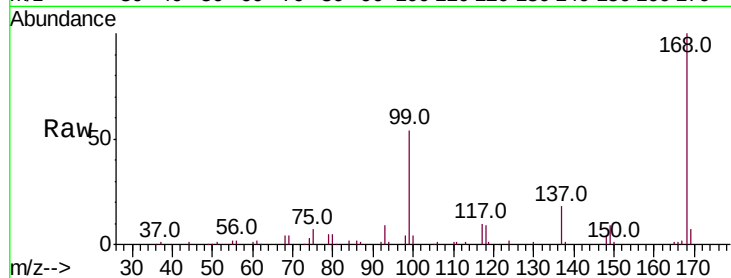




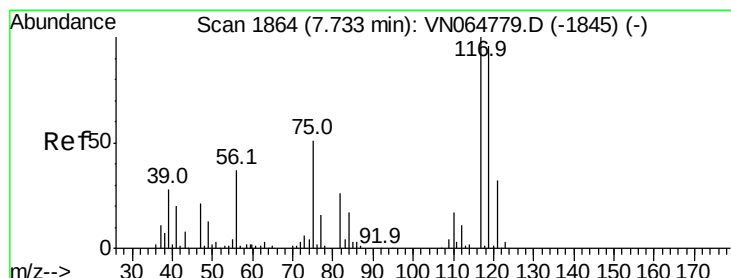
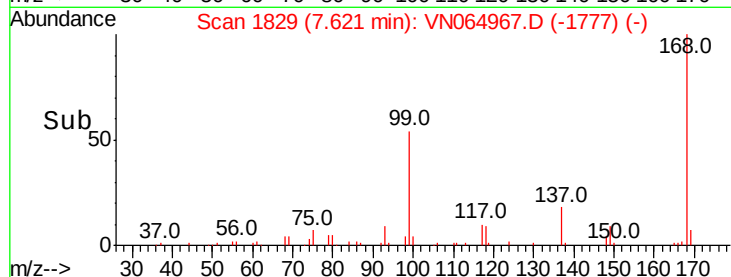
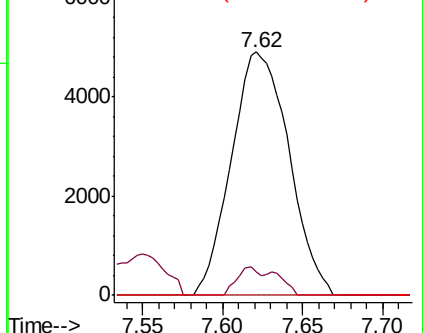
#36
 1,1-Dichloropropene
 Concen: 4.064 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN064967.D
 Acq: 8 Dec 2020 14:13

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#04

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.6	17.8	53.3#
77	0.0	25.0	37.4#

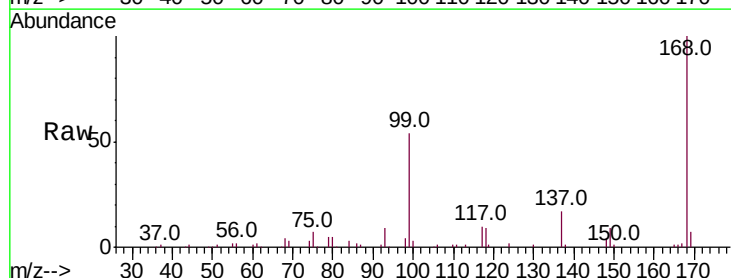


Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-1848) (-)
 Ion 109.90 (109.60 to 110.60): VN064779.D (-1848) (-)
 Ion 76.90 (76.60 to 77.60): VN064779.D (-1848) (-)

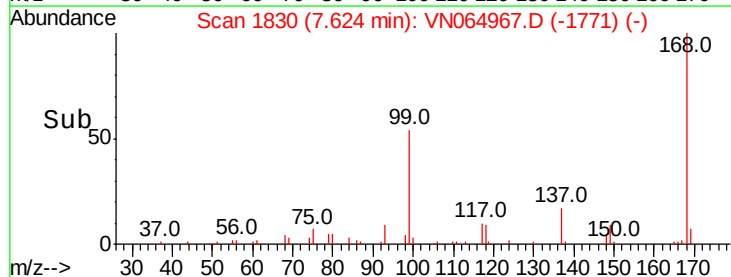
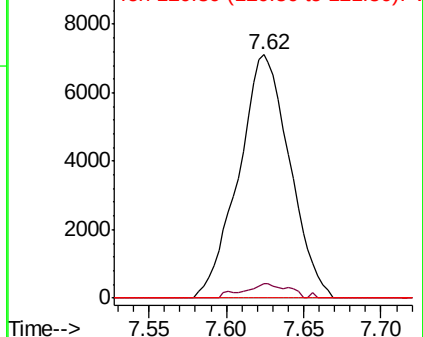


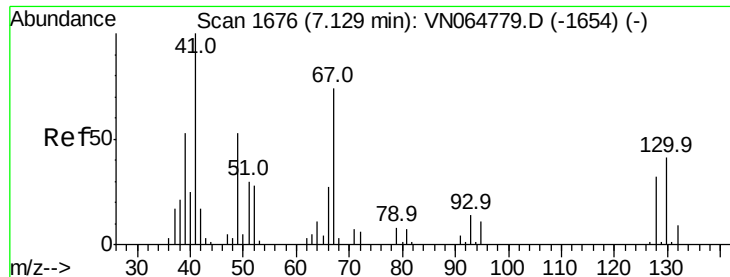
#38
 Carbon Tetrachloride
 Concen: 5.257 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN064967.D
 Acq: 8 Dec 2020 14:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.1	76.7	115.1#
121	0.0	25.4	38.2#



Abundance Ion 116.80 (116.50 to 117.50): VN064779.D (-1845) (-)
 Ion 118.80 (118.50 to 119.50): VN064779.D (-1845) (-)
 Ion 120.80 (120.50 to 121.50): VN064779.D (-1845) (-)





#41

Methacrylonitrile

Concen: 0.226 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.04 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#04

Tot Ion: 41 Resp: 300

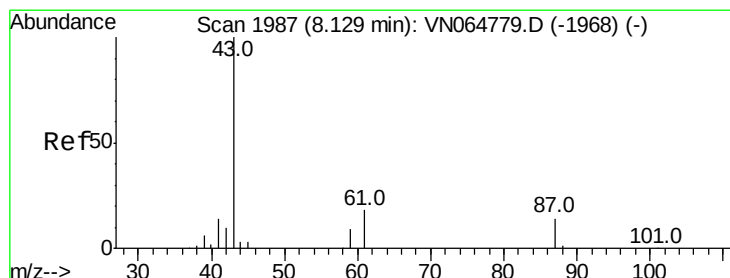
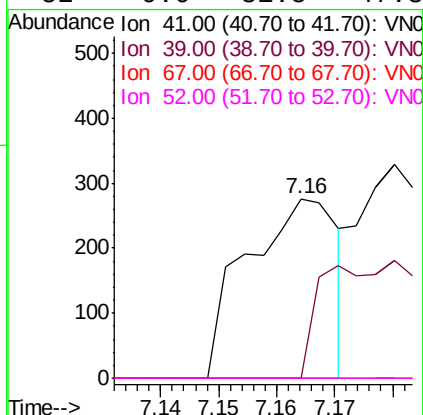
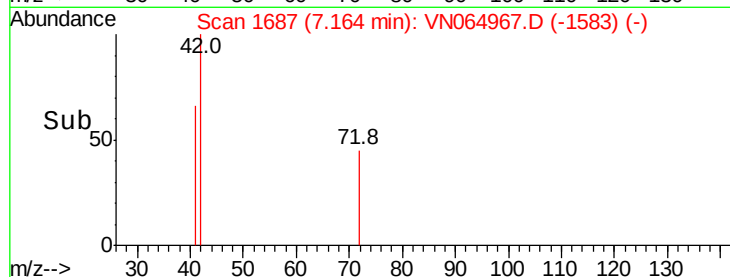
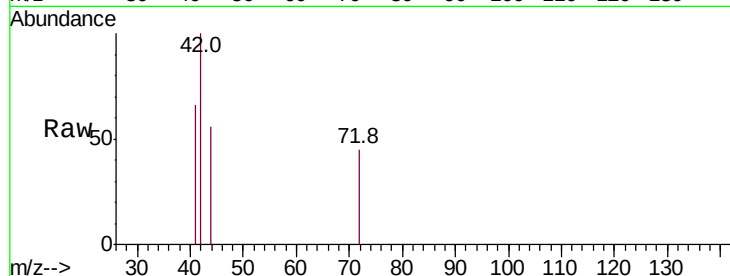
Ion Ratio Lower Upper

41 100

39 31.3 51.0 76.6#

67 0.0 79.8 119.8#

52 0.0 31.5 47.3#



#43

Isopropyl Acetate

Concen: 3.639 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

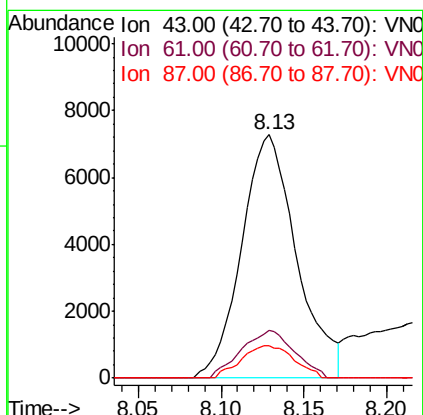
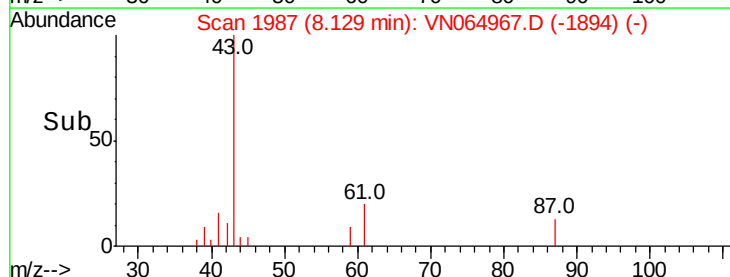
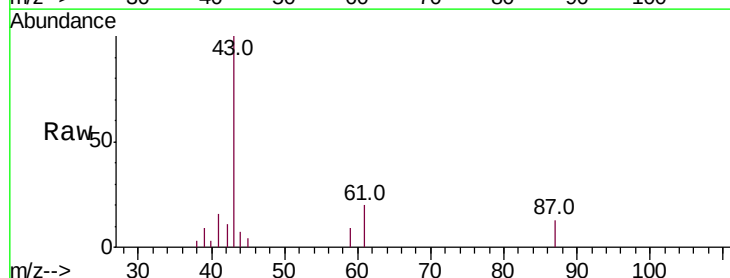
Tgt Ion: 43 Resp: 16813

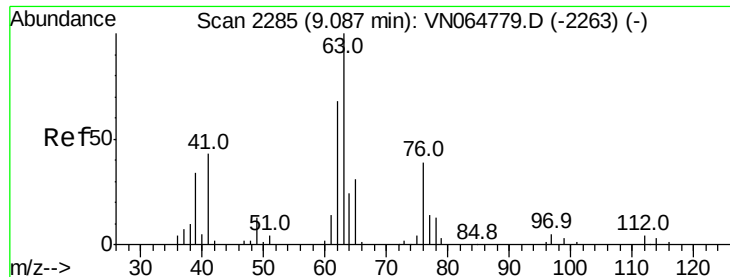
Ion Ratio Lower Upper

43 100

61 19.0 17.2 25.8

87 12.8 11.4 17.0





#45

1,2-Dichloropropane

Concen: 0.496 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.15 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

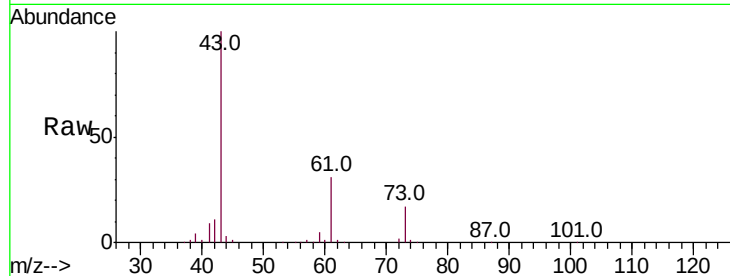
PB133456ZHE#04

Tot Ion: 63 Resp: 1173

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

9.24

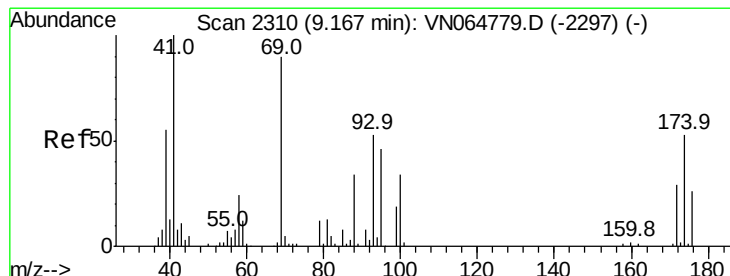
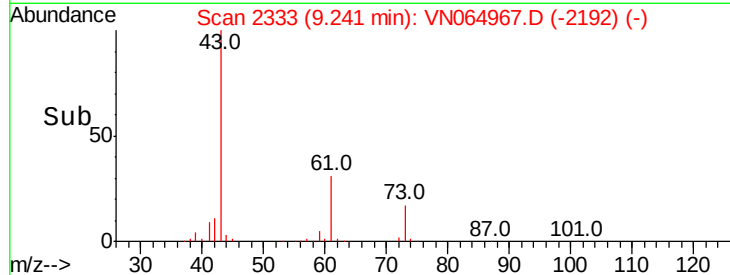
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.681 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

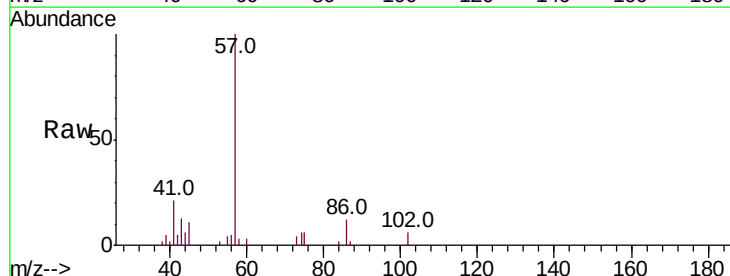
Tgt Ion: 41 Resp: 3712

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

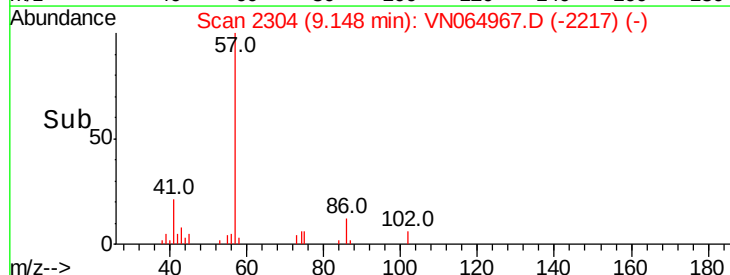
30000

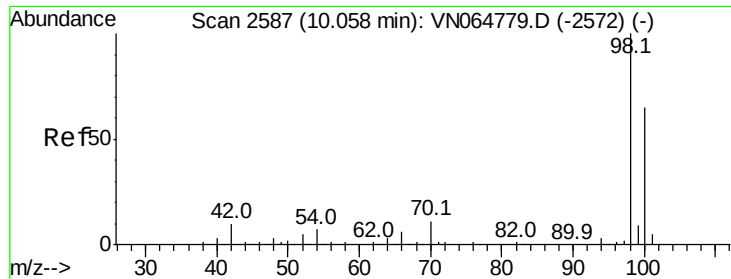
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 51.546 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

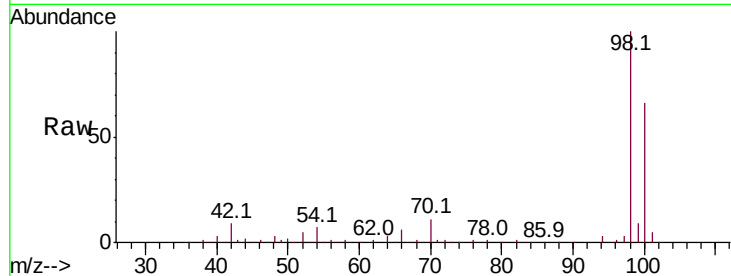
PB133456ZHE#04

Tot Ion: 98 Resp: 405258

Ion Ratio Lower Upper

98 100

100 65.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

250000

200000

150000

100000

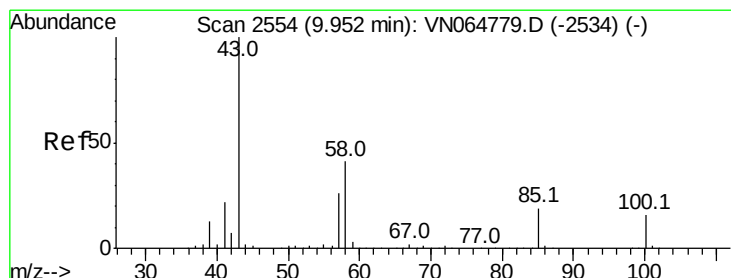
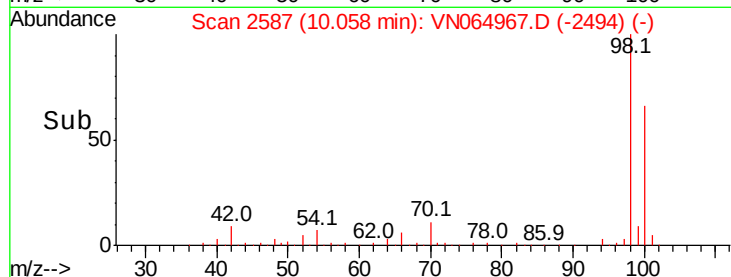
50000

0

10.06

10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.323 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN064967.D

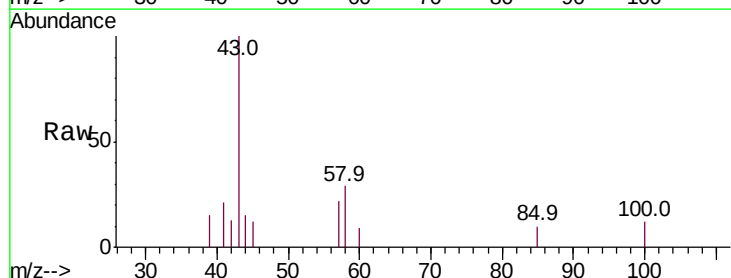
Acq: 8 Dec 2020 14:13

Tgt Ion: 43 Resp: 3670

Ion Ratio Lower Upper

43 100

58 37.4 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

5000

4000

3000

2000

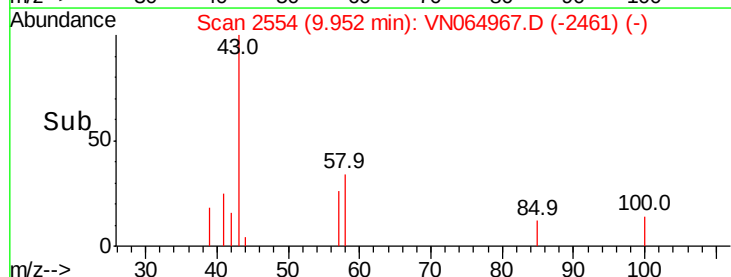
1000

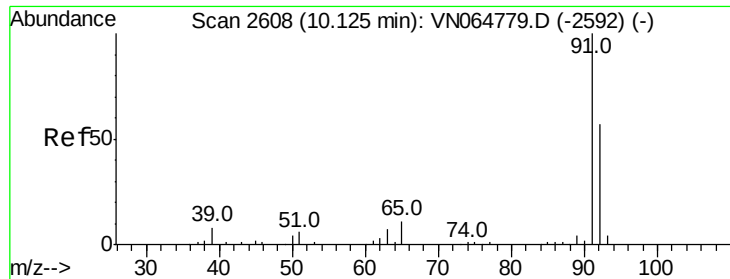
0

9.95

9.95

Time-->





#52

Toluene

Concen: 0.281 ug/l

RT: 10.12 min Scan# 2605

Delta R.T. -0.01 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

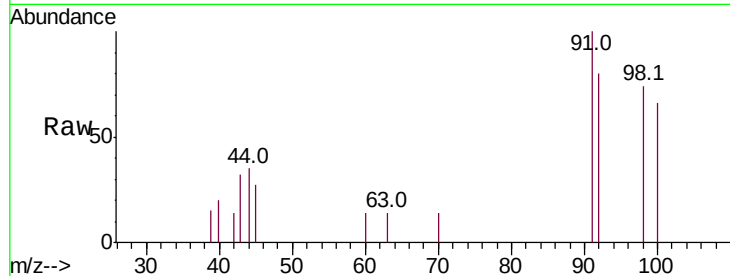
PB133456ZHE#04

Tot Ion: 92 Resp: 1582

Ion Ratio Lower Upper

92 100

91 162.2 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN064967.D (-2515) (-)

Ion 91.00 (90.70 to 91.70): VN064967.D (-2515) (-)

1500

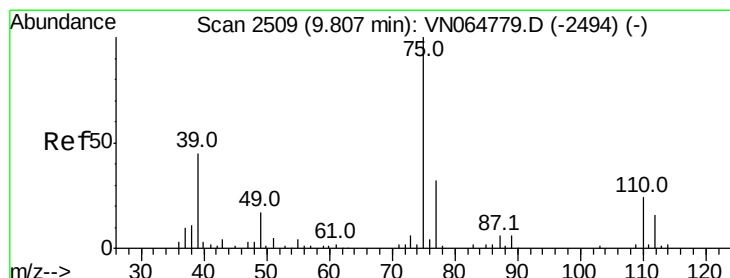
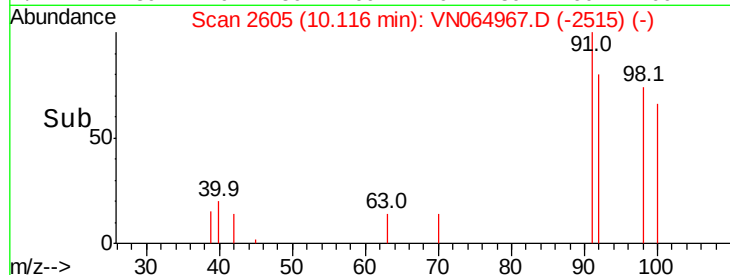
1000

500

0

10.10 10.12 10.15

Time-->



#54

cis-1,3-Dichloropropene

Concen: 8.291 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

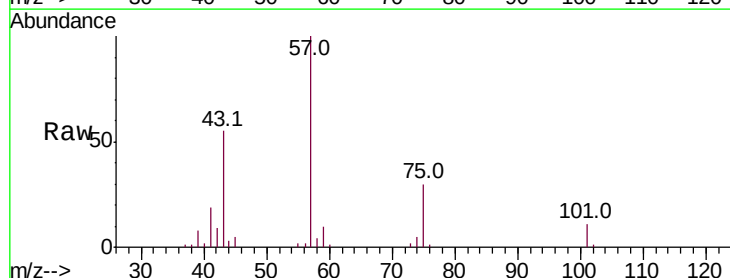
Tgt Ion: 75 Resp: 31473

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 27.6 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN064967.D (-2416) (-)

Ion 76.90 (76.60 to 77.60): VN064967.D (-2416) (-)

Ion 39.00 (38.70 to 39.70): VN064967.D (-2416) (-)

25000

20000

15000

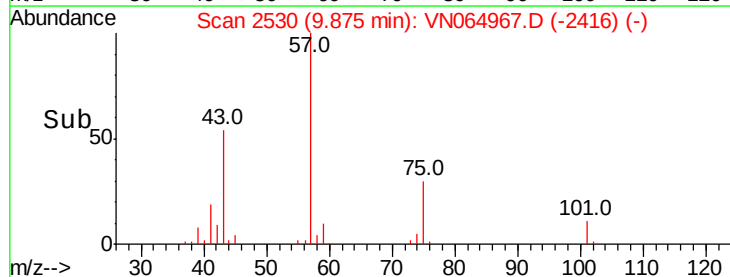
10000

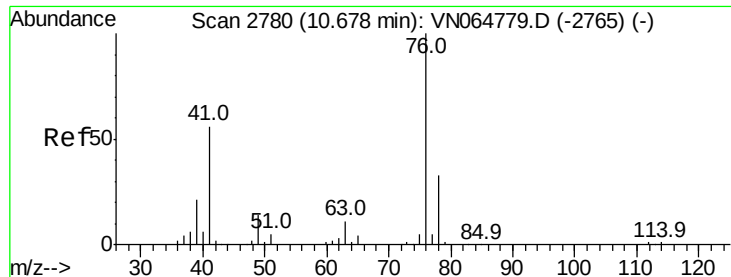
5000

0

9.80 9.85 9.87 9.90 9.95

Time-->

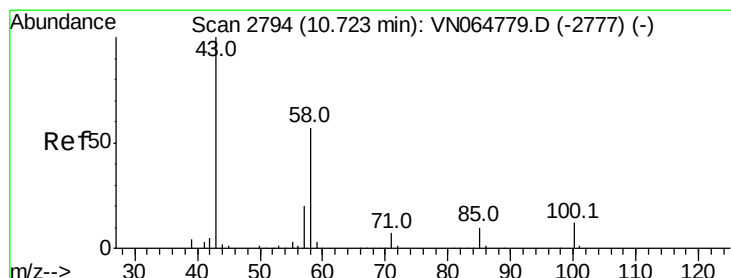
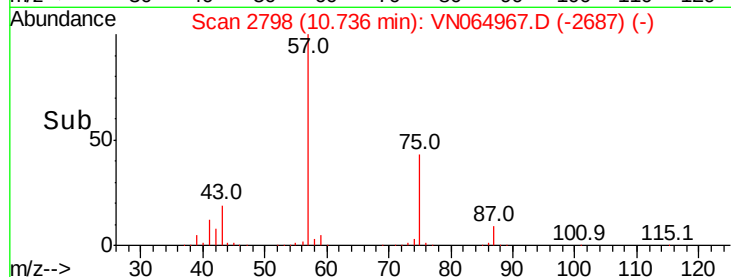
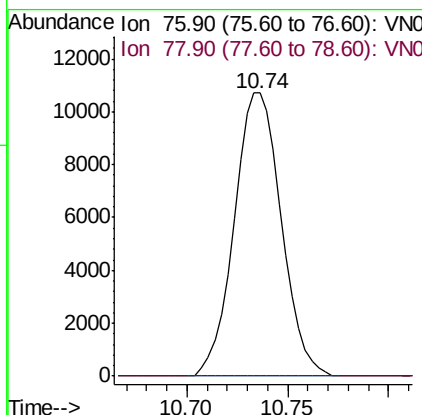
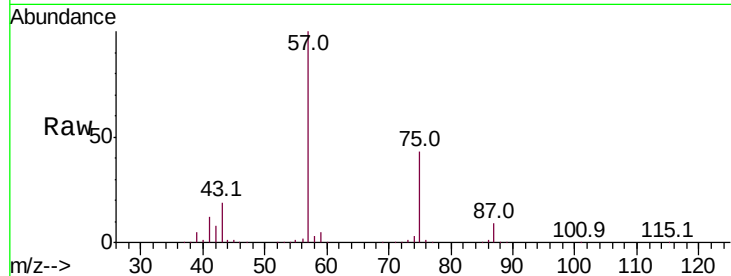




#57
 1,3-Dichloropropane
 Concen: 4.582 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064967.D
 Acq: 8 Dec 2020 14:13

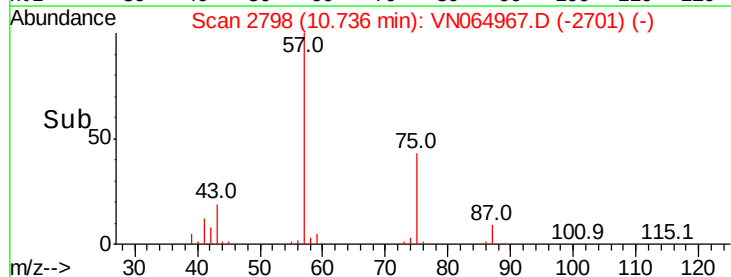
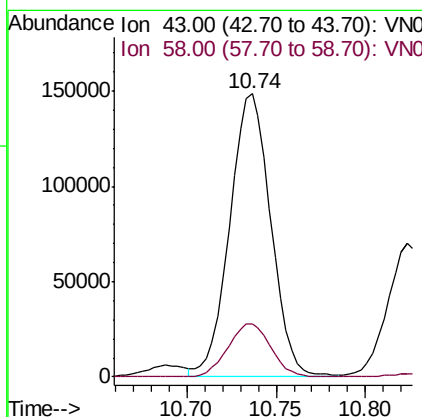
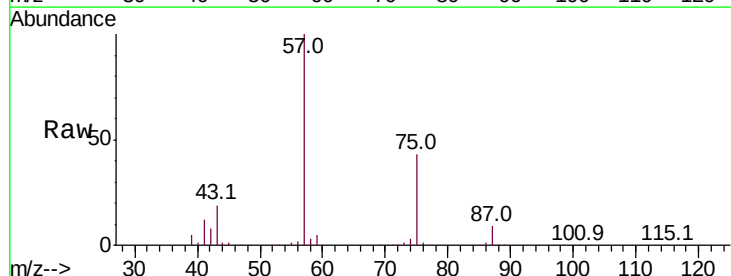
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#04

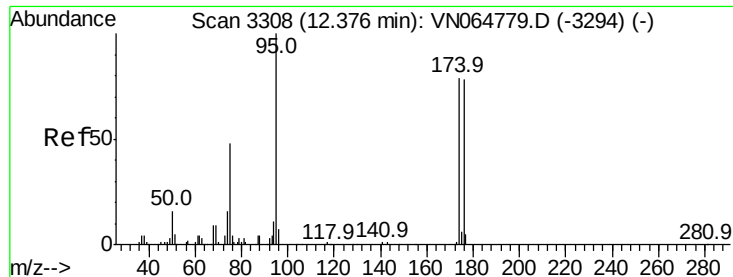
Tot Ion: 76 Resp: 17484
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#



#59
 2-Hexanone
 Concen: 118.246 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.01 min
 Lab File: VN064967.D
 Acq: 8 Dec 2020 14:13

Tgt Ion: 43 Resp: 236034
 Ion Ratio Lower Upper
 43 100
 58 19.8 28.3 84.9#





#62

4-Bromofluorobenzene

Concen: 54.784 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#04

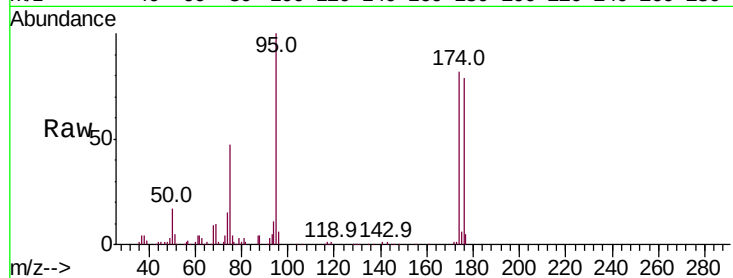
Tot Ion: 95 Resp: 154144

Ion Ratio Lower Upper

95 100

174 82.9 0.0 160.4

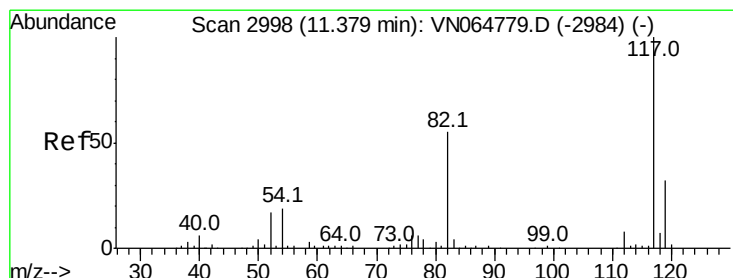
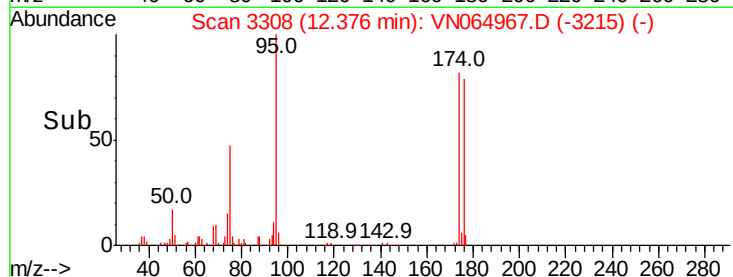
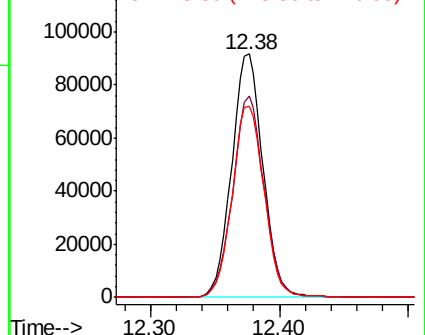
176 80.2 0.0 158.4



Abundance Ion 94.90 (94.60 to 95.60): VN064967.D (-2905) (-)

Ion 173.80 (173.50 to 174.50): VN064967.D (-2905) (-)

Ion 175.80 (175.50 to 176.50): VN064967.D (-2905) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

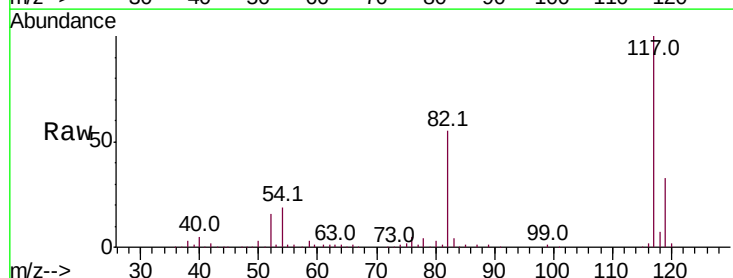
Tgt Ion: 117 Resp: 338395

Ion Ratio Lower Upper

117 100

82 54.9 44.2 66.2

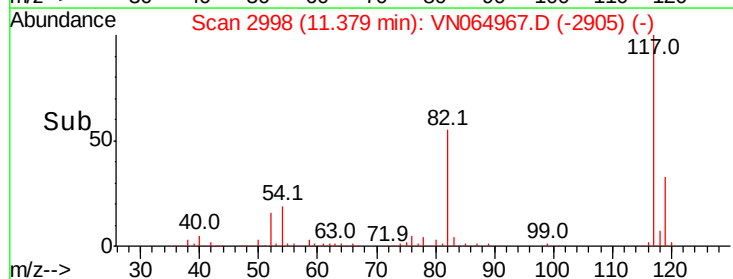
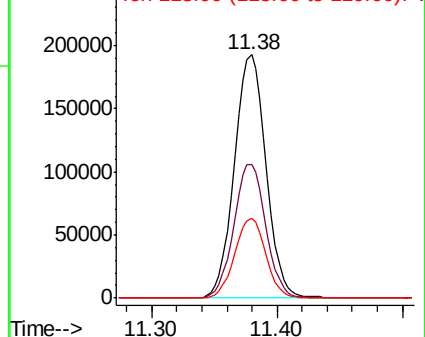
119 32.7 25.8 38.6

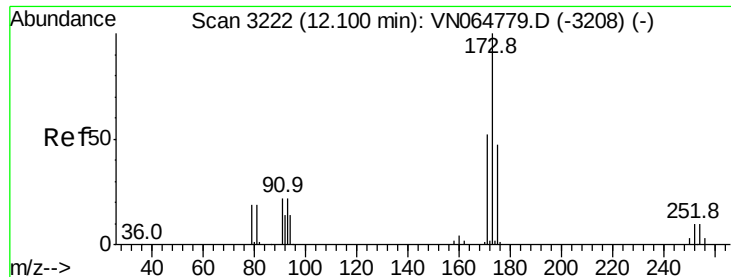


Abundance Ion 116.90 (116.60 to 117.60): VN064967.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN064967.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN064967.D (-2905) (-)

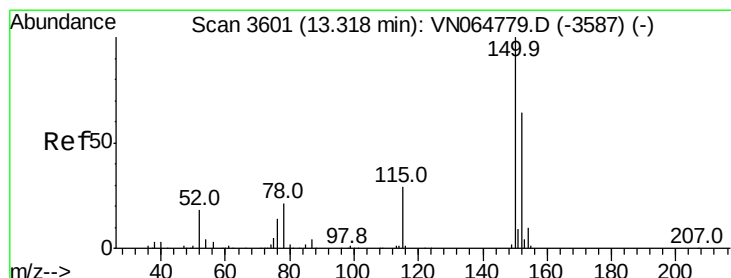
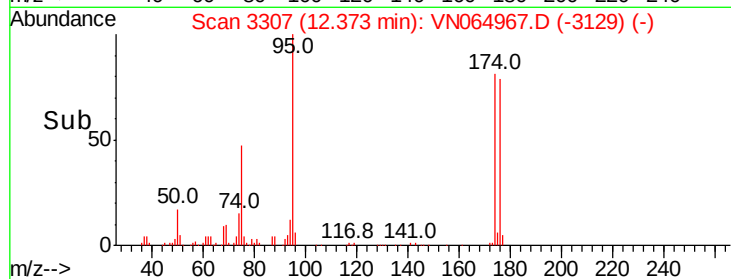
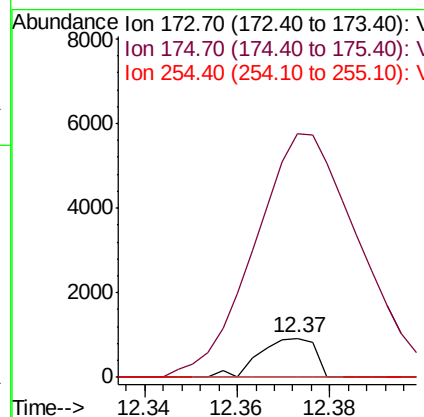
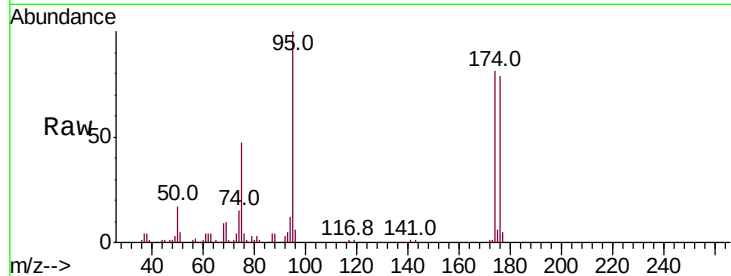




#71
Bromoform
Concen: 0.358 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN064967.D
Acq: 8 Dec 2020 14:13

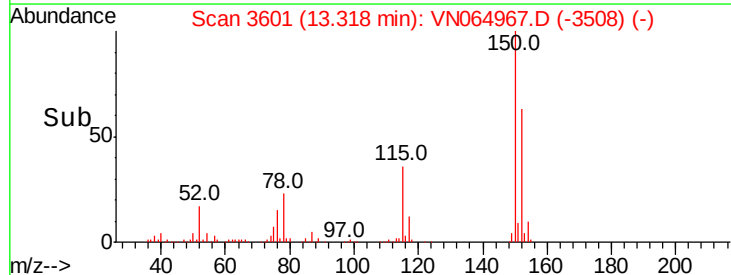
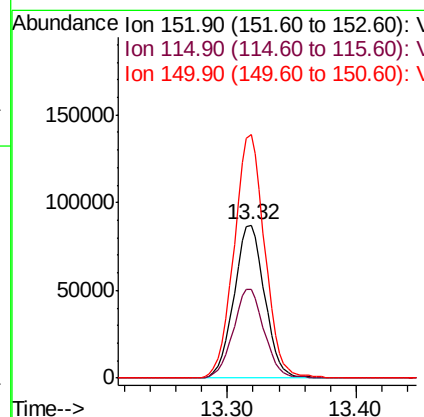
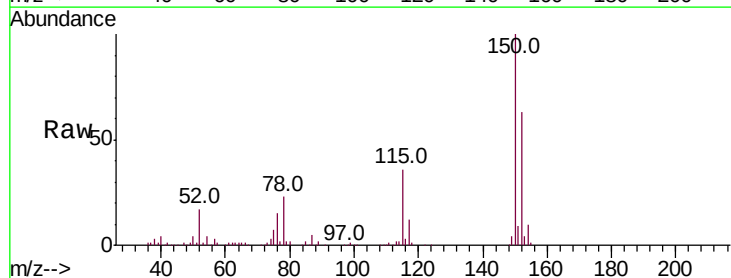
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#04

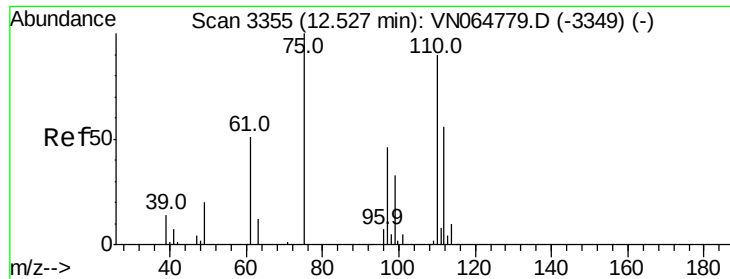
Tot Ion:173 Resp: 763
Ion Ratio Lower Upper
173 100
175 1025.2 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN064967.D
Acq: 8 Dec 2020 14:13

Tgt Ion:152 Resp: 143931
Ion Ratio Lower Upper
152 100
115 58.8 29.7 89.1
150 158.9 0.0 350.6





#76

1,2,3-Trichloropropane

Concen: 23.819 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

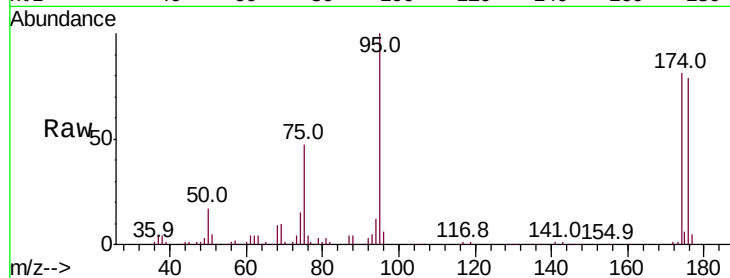
PB133456ZHE#04

Tot Ion: 75 Resp: 73832

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#

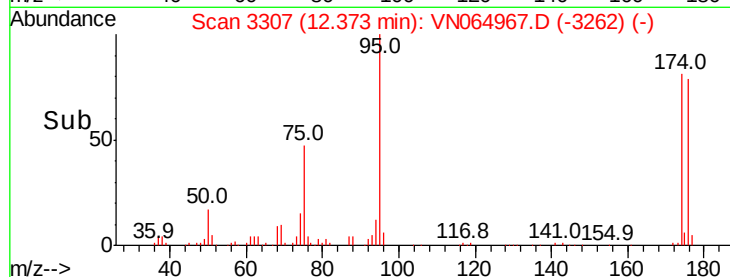


Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-3349) (-)

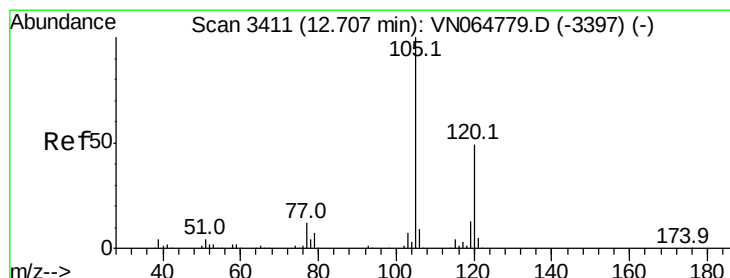
Ion 77.00 (76.70 to 77.70): VN064779.D (-3349) (-)

12.37

Time-->



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.268 ug/l

RT: 12.70 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN064967.D

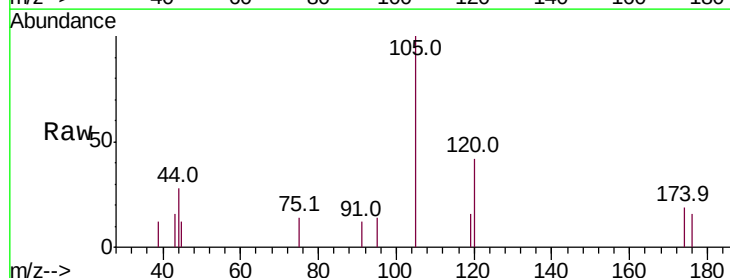
Acq: 8 Dec 2020 14:13

Tgt Ion: 105 Resp: 2228

Ion Ratio Lower Upper

105 100

120 48.6 24.6 73.6

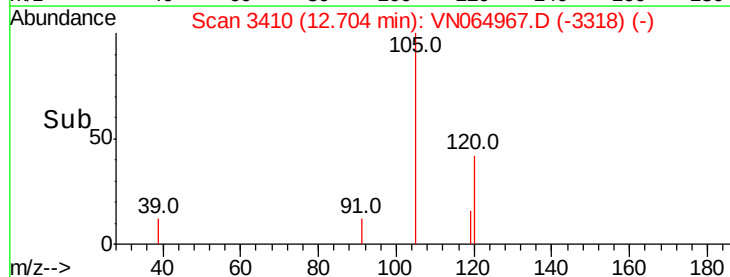


Abundance Ion 105.00 (104.70 to 105.70): VN064779.D (-3397) (-)

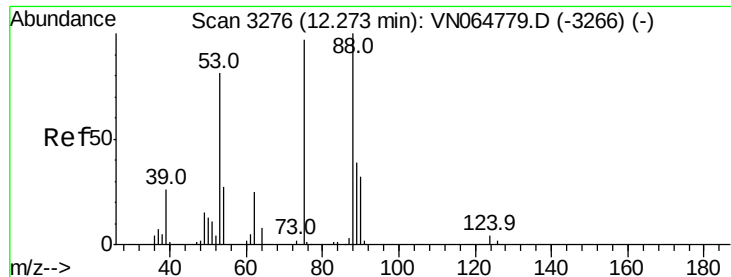
Ion 120.00 (119.70 to 120.70): VN064779.D (-3397) (-)

12.70

Time-->



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.283 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064967.D

Acq: 8 Dec 2020 14:13

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#04

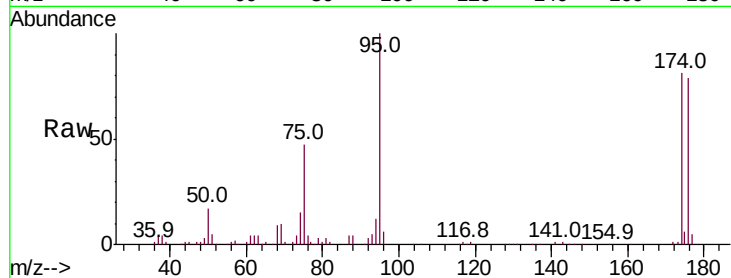
Tot Ion: 75 Resp: 73832

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

