

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081120\
 Data File : VN062833.D
 Acq On : 11 Aug 2020 16:43
 Operator : JC/MD
 Sample : PB130875ZHE#18
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130875ZHE#18

Quant Time: Aug 11 21:22:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	128114	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	219742	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	218159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	82589	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	106305	50.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.36%	
35) Dibromofluoromethane	7.55	113	75361	50.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.28%	
50) Toluene-d8	10.06	98	281741	48.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.02%	
62) 4-Bromofluorobenzene	12.38	95	103669	46.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.50%	

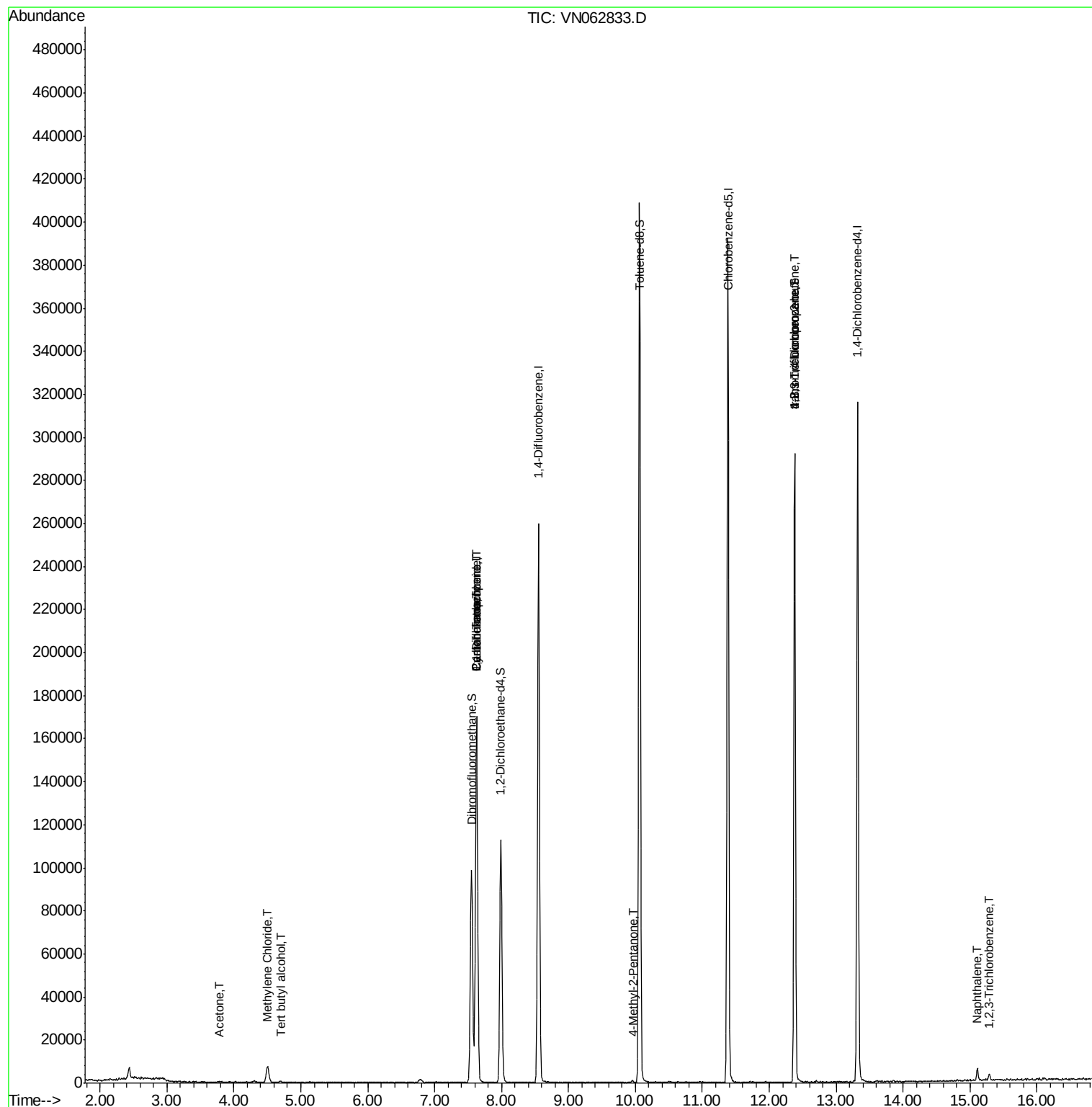
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.70	59	174	0.501	ug/l #	72
16) Acetone	3.78	43	243	0.317	ug/l #	45
18) Methyl Acetate	4.29	43	525	Below Cal	#	52
20) Methylene Chloride	4.50	84	5977	3.560	ug/l #	85
31) Cyclohexane	7.62	56	3121	1.215	ug/l #	29
36) 1,1-Dichloropropene	7.63	75	11126	5.200	ug/l #	49
38) Carbon Tetrachloride	7.63	117	14314	5.656	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	820	0.340	ug/l #	71
76) 1,2,3-Trichloropropane	12.38	75	56922	25.556	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	56922	78.016	ug/l #	10
95) Naphthalene	15.11	128	6180	5.215	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.29	180	1457	3.746	ug/l	92

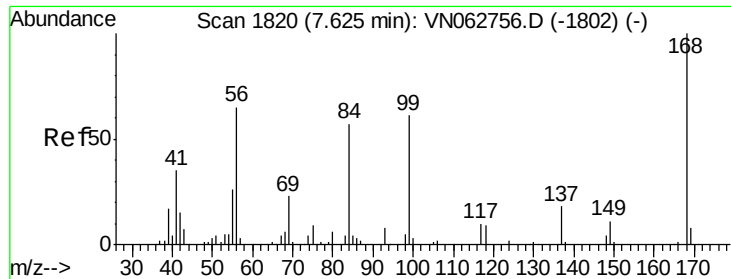
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

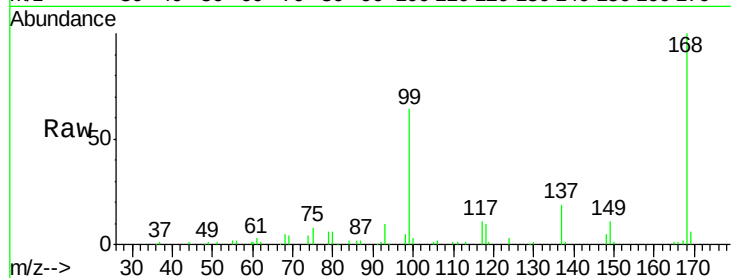
PB130875ZHE#18

Tgt Ion:168 Resp: 128114

Ion Ratio Lower Upper

168 100

99 64.1 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

60000

50000

40000

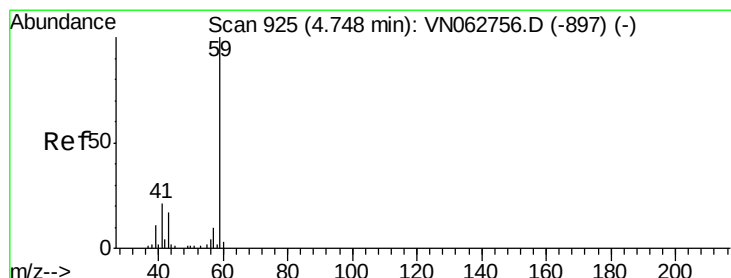
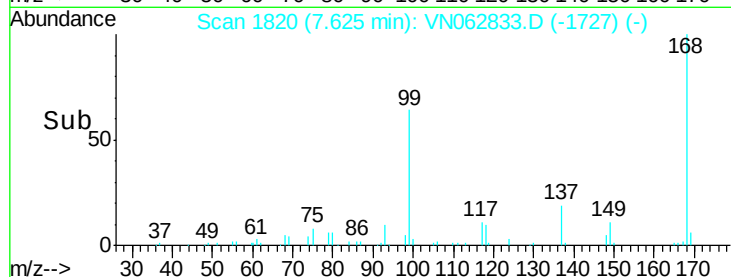
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.501 ug/l

RT: 4.70 min Scan# 911

Delta R.T. -0.05 min

Lab File: VN062833.D

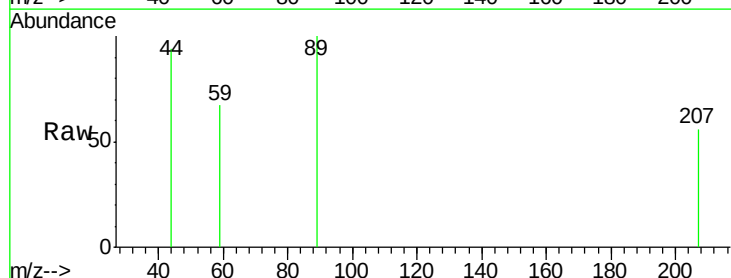
Acq: 11 Aug 2020 16:43

Tgt Ion: 59 Resp: 174

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

200

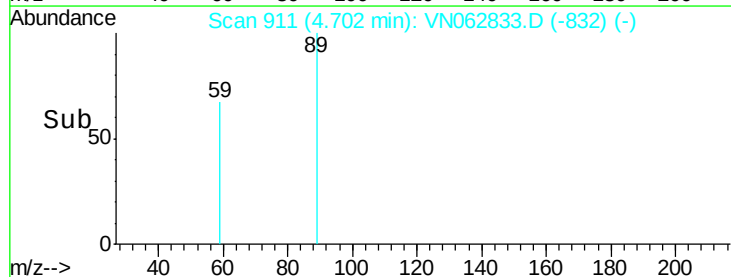
150

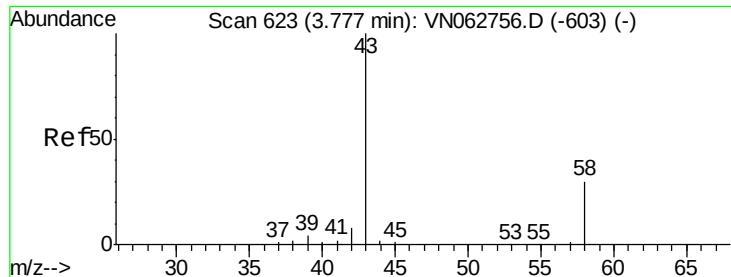
100

50

0

Time--> 4.68 4.69 4.70 4.71 4.72





#16

Acetone

Concen: 0.317 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

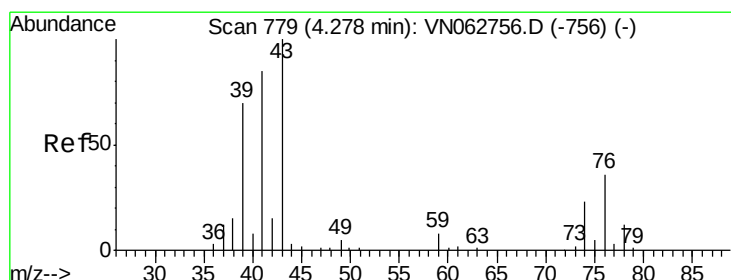
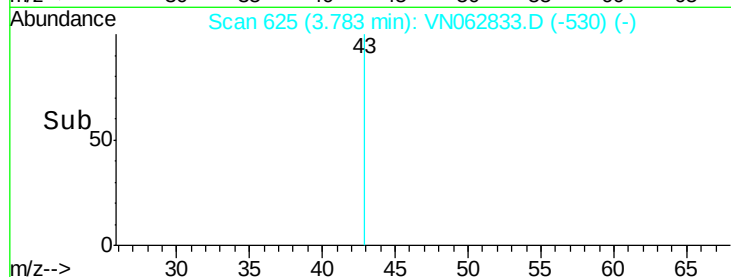
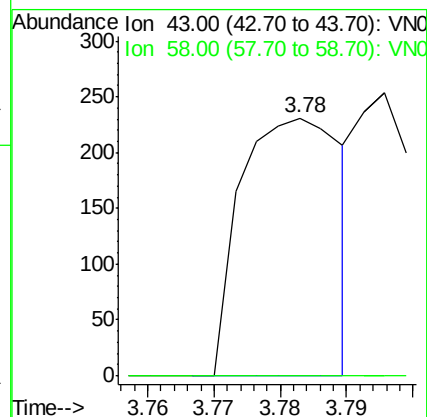
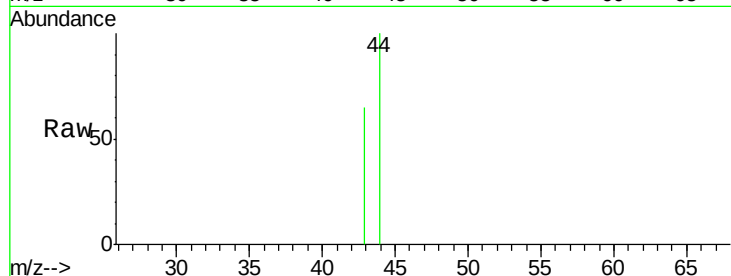
PB130875ZHE#18

Tgt Ion: 43 Resp: 243

Ion Ratio Lower Upper

43 100

58 0.0 24.1 36.1#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.29 min Scan# 782

Delta R.T. 0.01 min

Lab File: VN062833.D

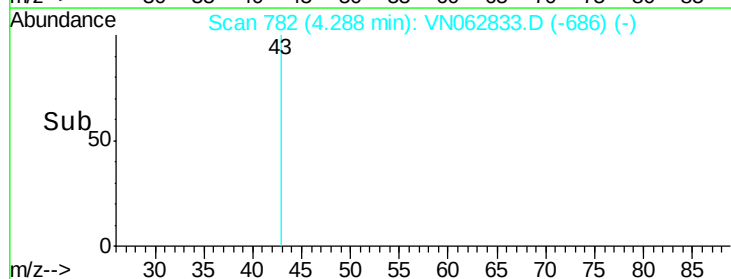
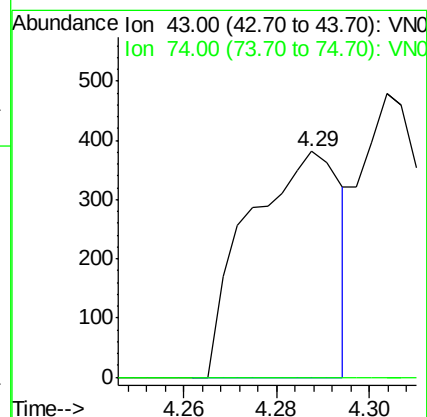
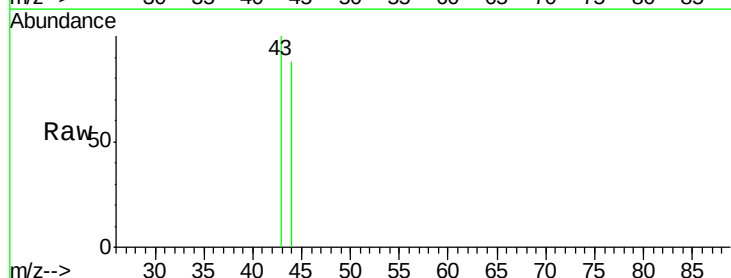
Acq: 11 Aug 2020 16:43

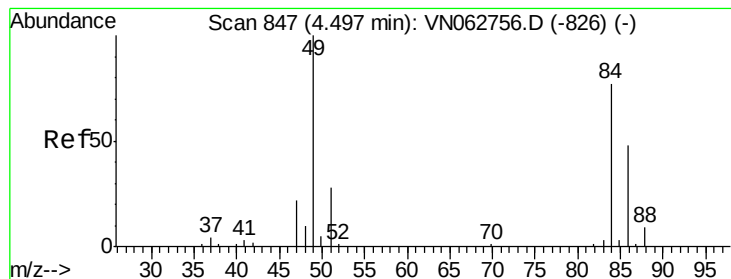
Tgt Ion: 43 Resp: 525

Ion Ratio Lower Upper

43 100

74 0.0 18.6 28.0#





#20

Methylene Chloride

Concen: 3.560 ug/l

RT: 4.50 min Scan# 849

Delta R.T. 0.01 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

PB130875ZHE#18

Tgt Ion: 84 Resp: 5977

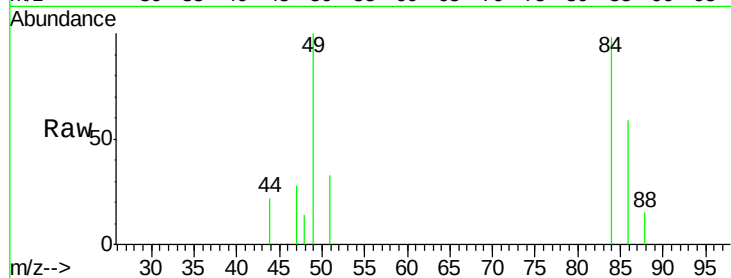
Ion Ratio Lower Upper

84 100

49 101.9 103.4 155.2#

51 33.9 29.3 43.9

86 60.4 49.9 74.9

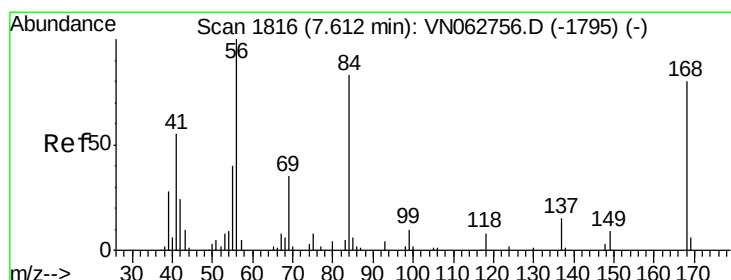
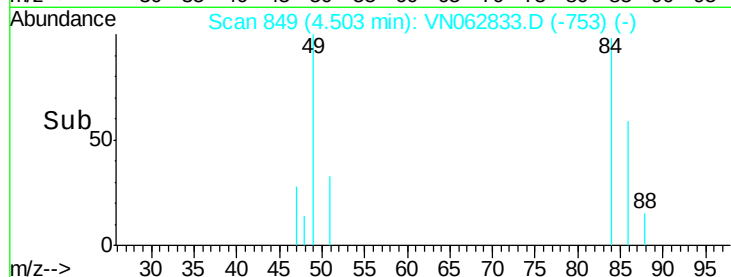
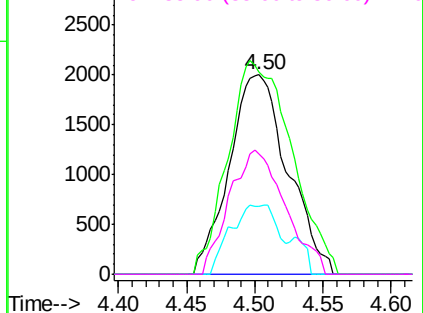


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#31

Cyclohexane

Concen: 1.215 ug/l

RT: 7.62 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

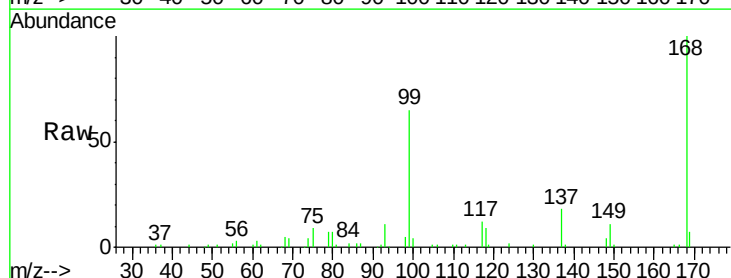
Tgt Ion: 56 Resp: 3121

Ion Ratio Lower Upper

56 100

69 157.8 28.1 42.1#

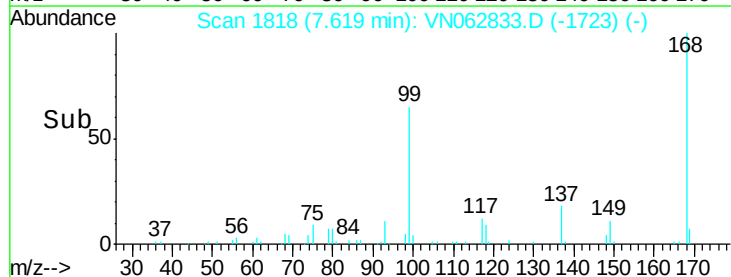
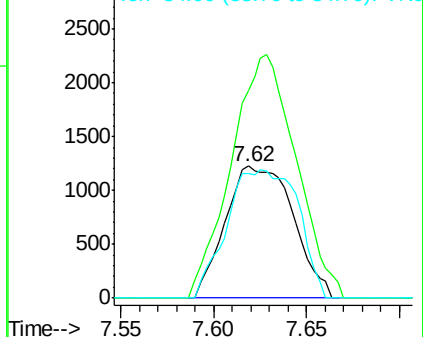
84 94.8 66.8 100.2

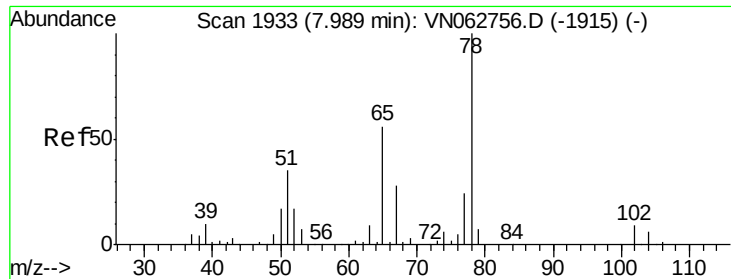


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 50.177 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

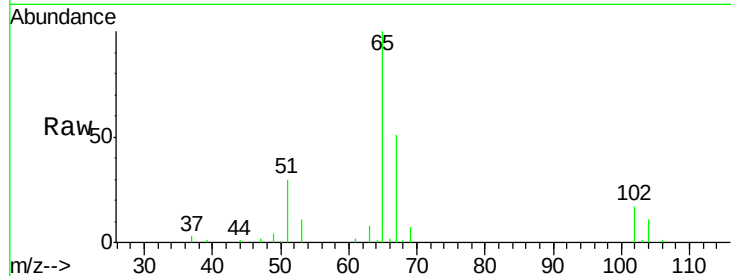
PB130875ZHE#18

Tgt Ion: 65 Resp: 106305

Ion Ratio Lower Upper

65 100

67 49.0 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN062833.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062833.D (-1840) (-)

7.99

50000

40000

30000

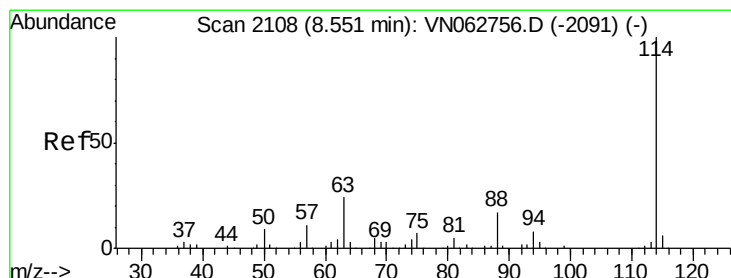
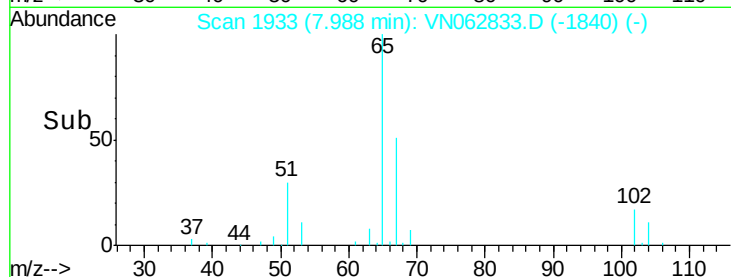
20000

10000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

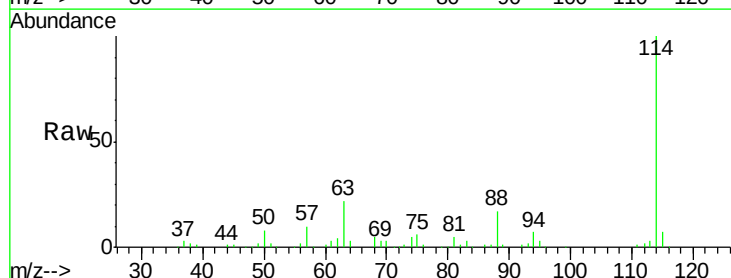
Tgt Ion: 114 Resp: 219742

Ion Ratio Lower Upper

114 100

63 22.3 0.0 47.6

88 16.9 0.0 34.4



Abundance Ion 113.90 (113.60 to 114.60): VN062833.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN062833.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN062833.D (-2015) (-)

8.55

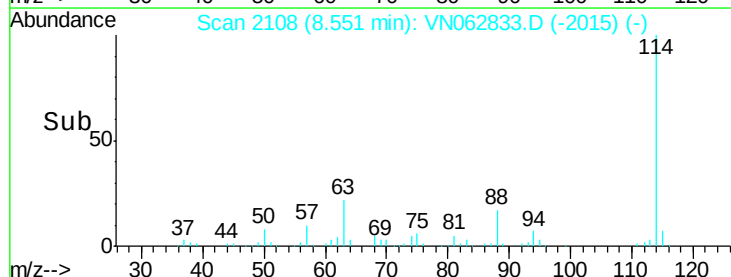
100000

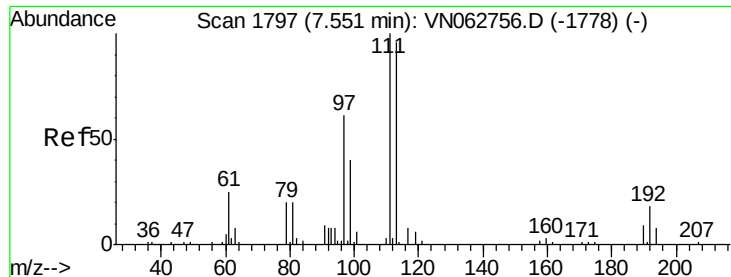
50000

0

Time-->

8.45 8.50 8.55 8.60 8.65

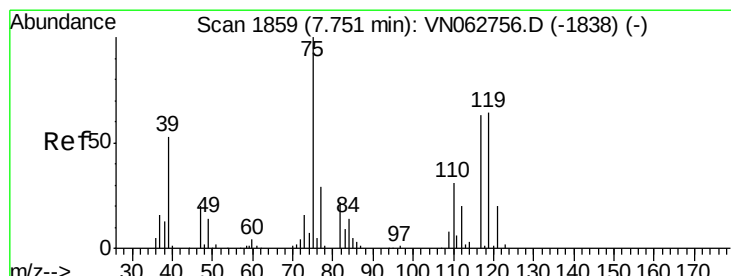
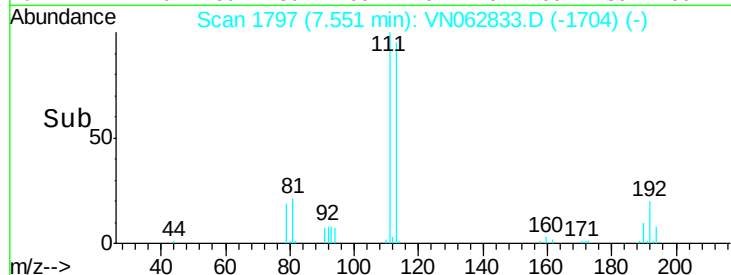
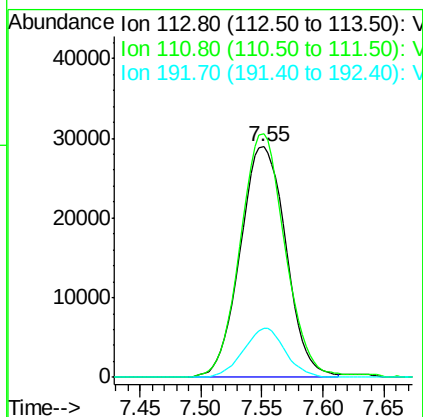
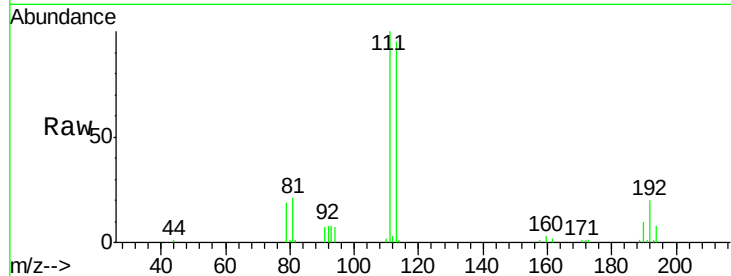




#35
 Dibromofluoromethane
 Concen: 50.135 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VN062833.D
 Acq: 11 Aug 2020 16:43

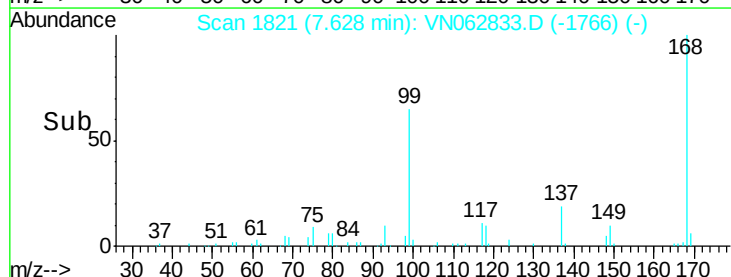
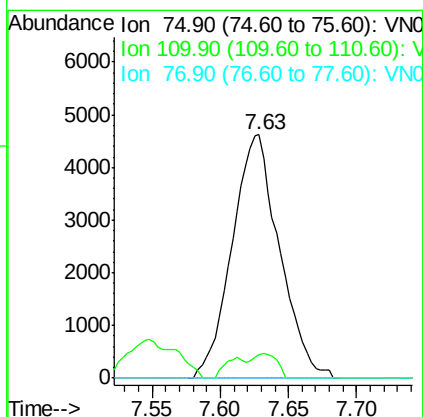
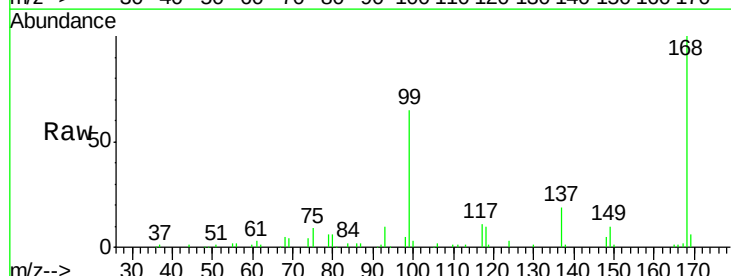
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130875ZHE#18

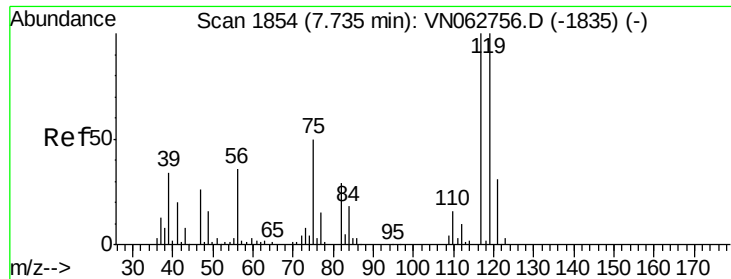
Tgt Ion:113 Resp: 75361
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.8 122.6
 192 19.3 15.0 22.4



#36
 1,1-Dichloropropene
 Concen: 5.200 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062833.D
 Acq: 11 Aug 2020 16:43

Tgt Ion: 75 Resp: 11126
 Ion Ratio Lower Upper
 75 100
 110 5.4 15.6 46.7#
 77 0.0 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 5.656 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

PB130875ZHE#18

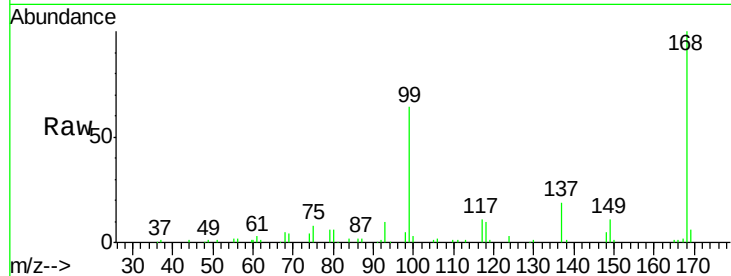
Tgt Ion:117 Resp: 14314

Ion Ratio Lower Upper

117 100

119 5.9 79.4 119.2#

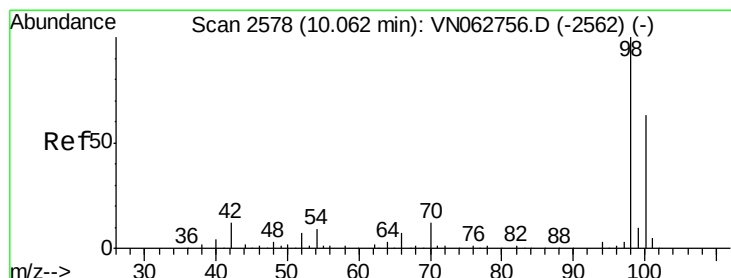
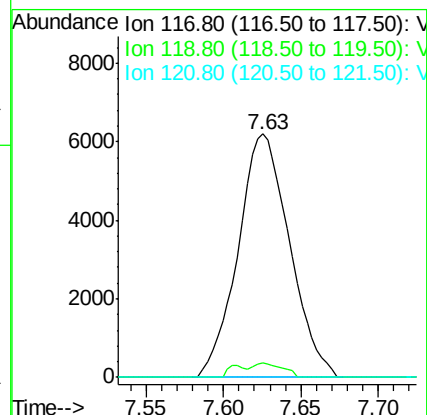
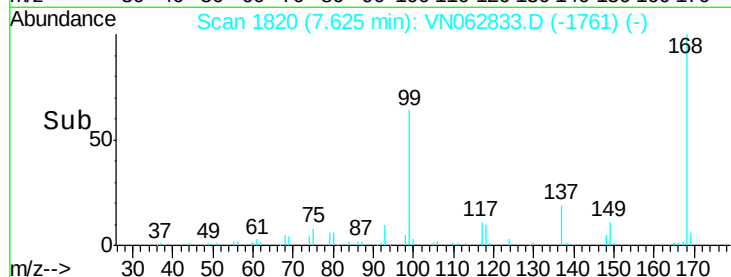
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 48.009 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. -0.00 min

Lab File: VN062833.D

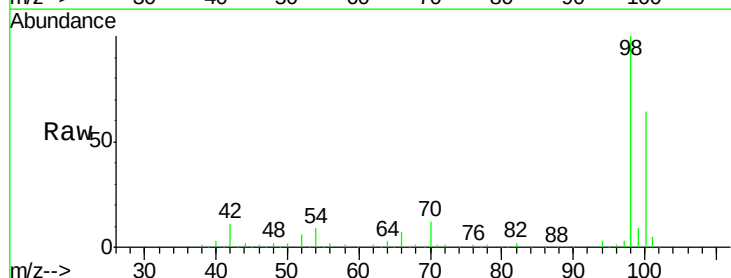
Acq: 11 Aug 2020 16:43

Tgt Ion: 98 Resp: 281741

Ion Ratio Lower Upper

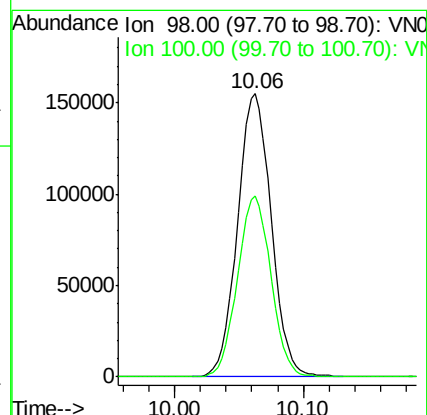
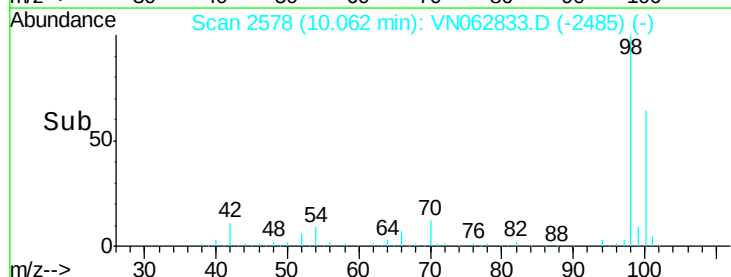
98 100

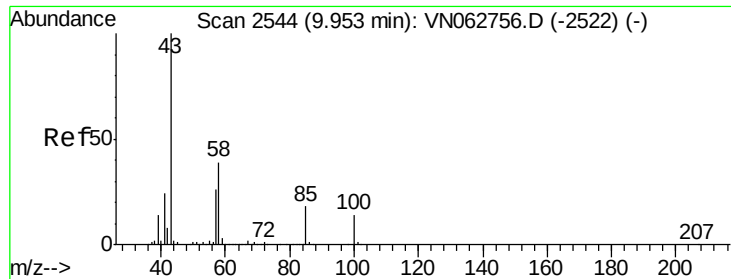
100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

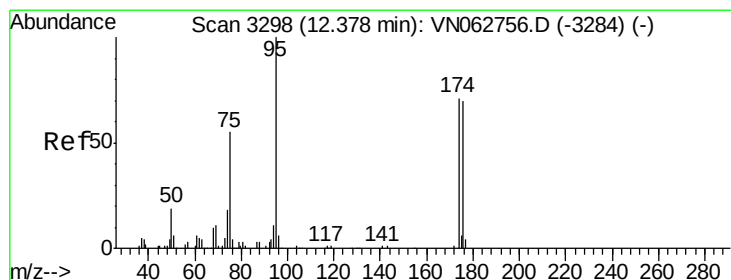
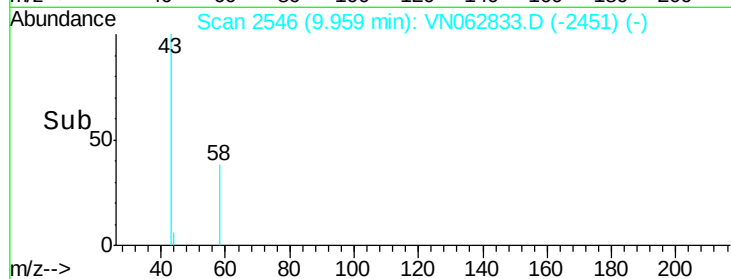
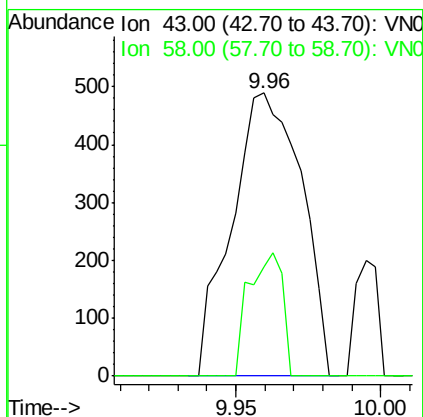
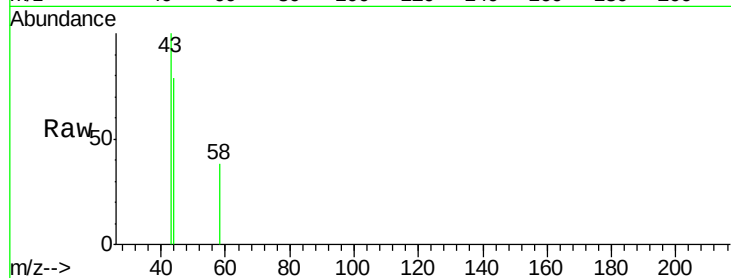




#51
 4-Methyl-2-Pentanone
 Concen: 0.340 ug/l
 RT: 9.96 min Scan# 2546
 Delta R.T. 0.01 min
 Lab File: VN062833.D
 Acq: 11 Aug 2020 16:43

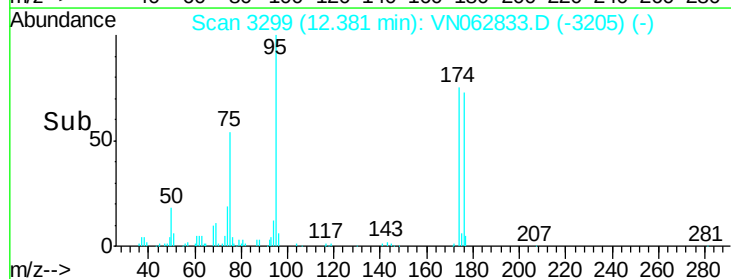
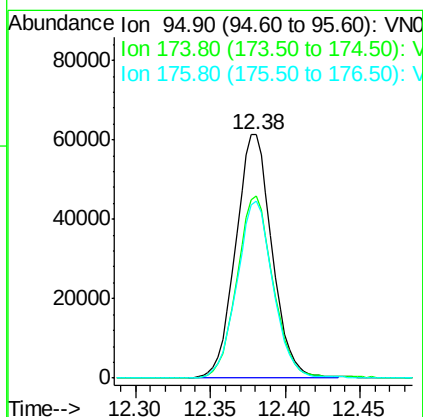
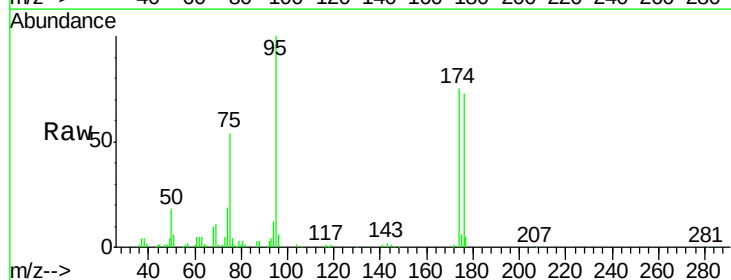
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130875ZHE#18

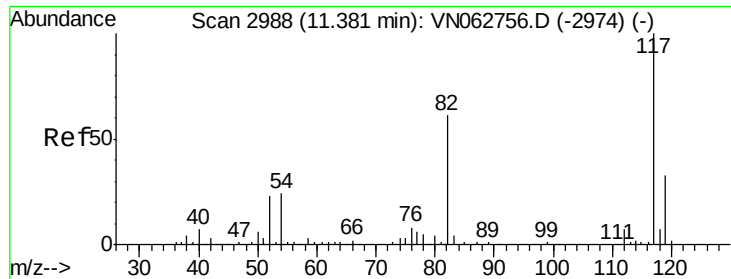
Tgt Ion: 43 Resp: 820
 Ion Ratio Lower Upper
 43 100
 58 21.1 31.1 46.7#



#62
 4-Bromofluorobenzene
 Concen: 46.746 ug/l
 RT: 12.38 min Scan# 3299
 Delta R.T. 0.00 min
 Lab File: VN062833.D
 Acq: 11 Aug 2020 16:43

Tgt Ion: 95 Resp: 103669
 Ion Ratio Lower Upper
 95 100
 174 74.3 0.0 144.8
 176 72.6 0.0 142.2

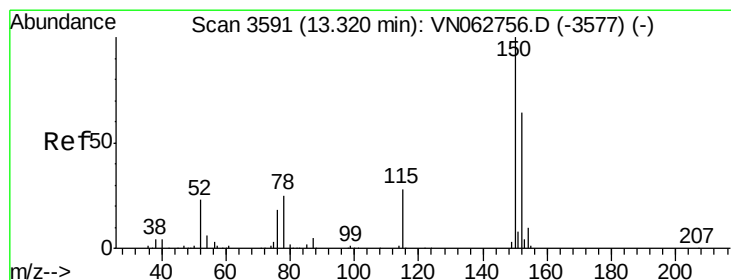
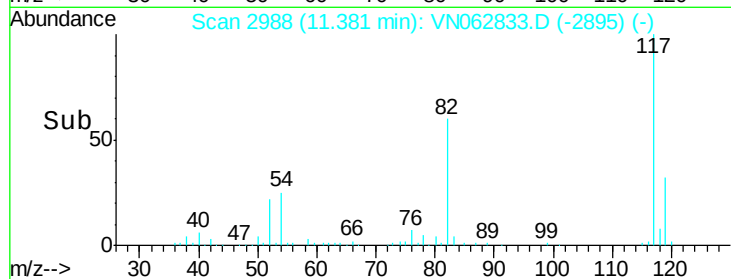
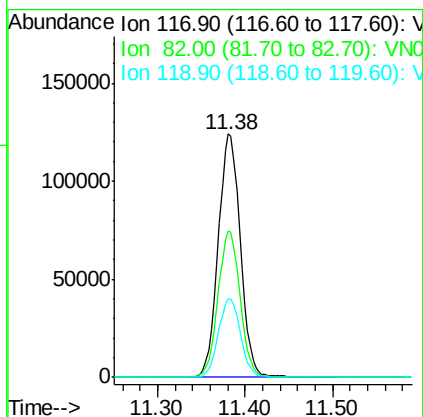
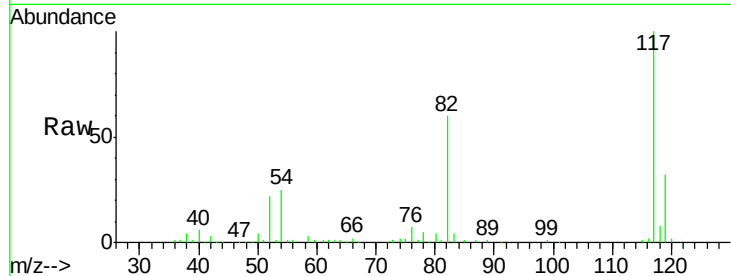




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062833.D
Acq: 11 Aug 2020 16:43

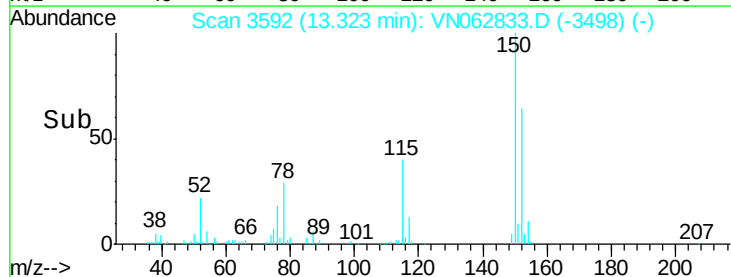
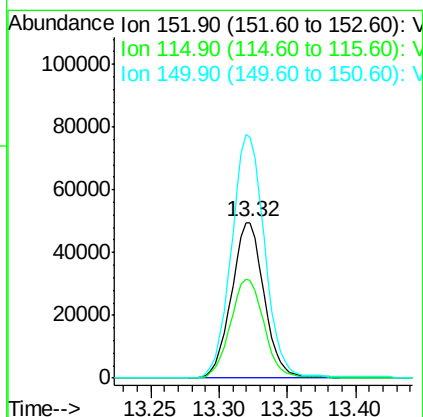
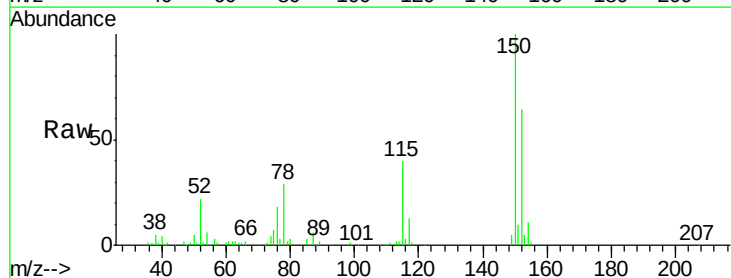
Instrument :
MSVOA_N
ClientSampleId :
PB130875ZHE#18

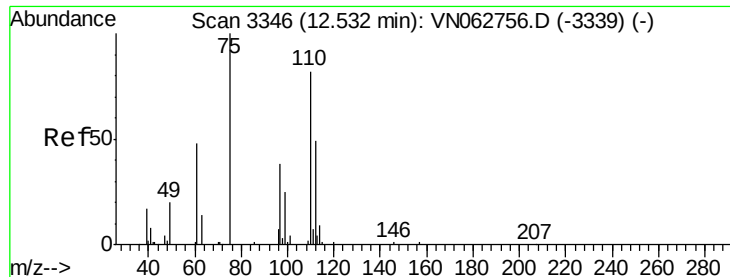
Tgt Ion:117 Resp: 218159
Ion Ratio Lower Upper
117 100
82 60.1 49.0 73.4
119 32.4 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3592
Delta R.T. 0.00 min
Lab File: VN062833.D
Acq: 11 Aug 2020 16:43

Tgt Ion:152 Resp: 82589
Ion Ratio Lower Upper
152 100
115 65.5 31.6 94.8
150 158.9 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 25.556 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

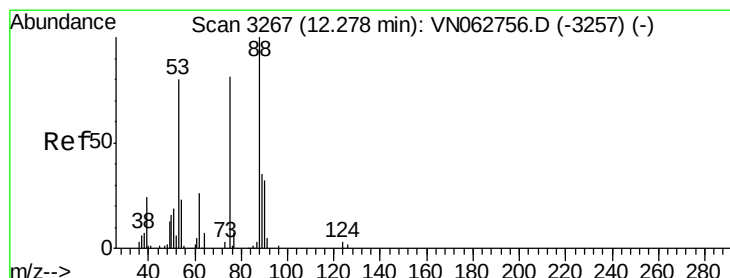
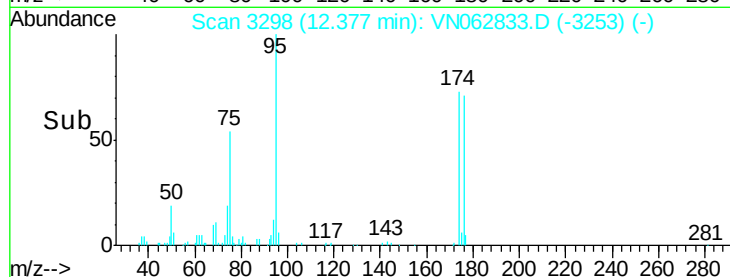
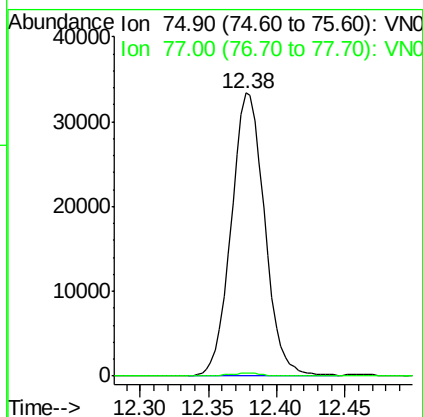
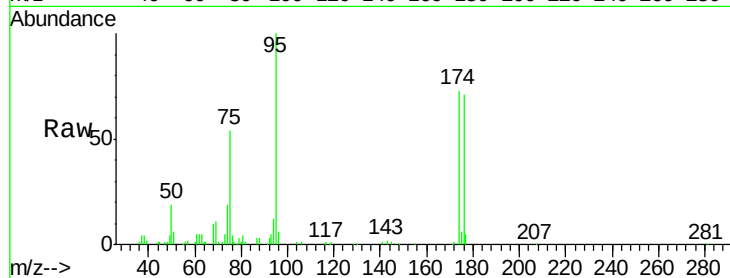
PB130875ZHE#18

Tgt Ion: 75 Resp: 56922

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.016 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

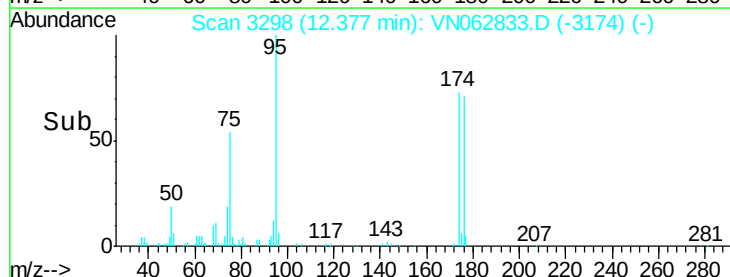
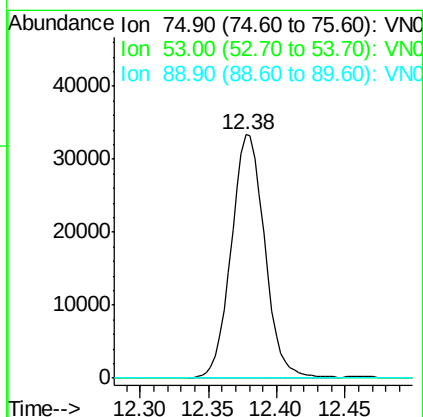
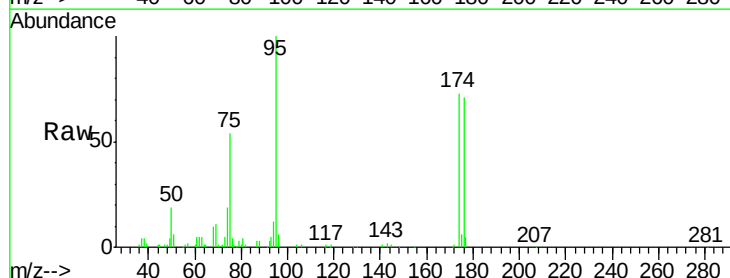
Tgt Ion: 75 Resp: 56922

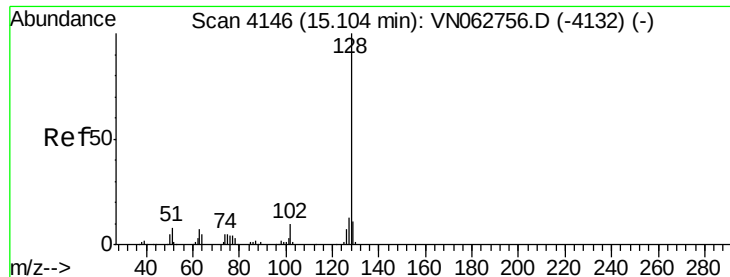
Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

89 0.0 36.2 54.2#





#95

Naphthalene

Concen: 5.215 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

Instrument :

MSVOA_N

ClientSampleId :

PB130875ZHE#18

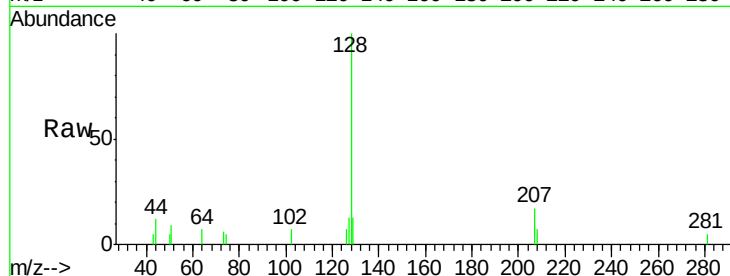
Tgt Ion:128 Resp: 6180

Ion Ratio Lower Upper

128 100

127 13.3 10.8 16.2

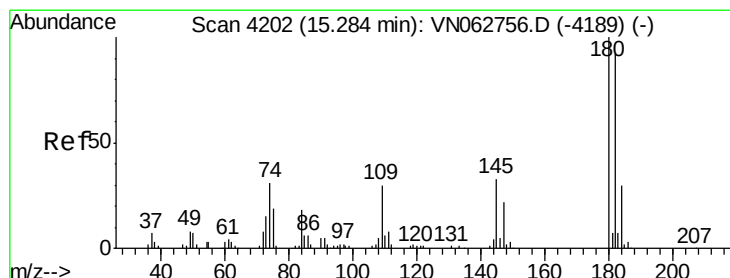
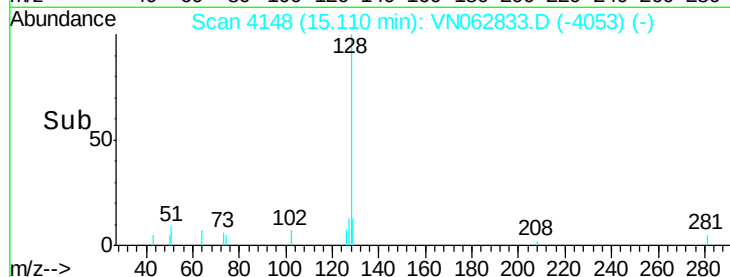
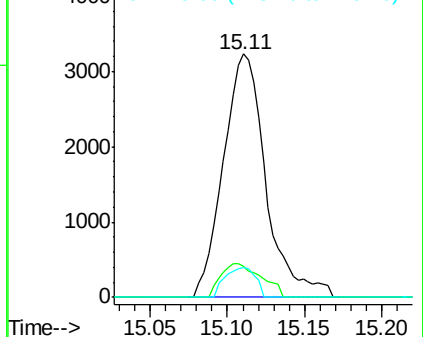
129 8.7 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.746 ug/l

RT: 15.29 min Scan# 4204

Delta R.T. 0.01 min

Lab File: VN062833.D

Acq: 11 Aug 2020 16:43

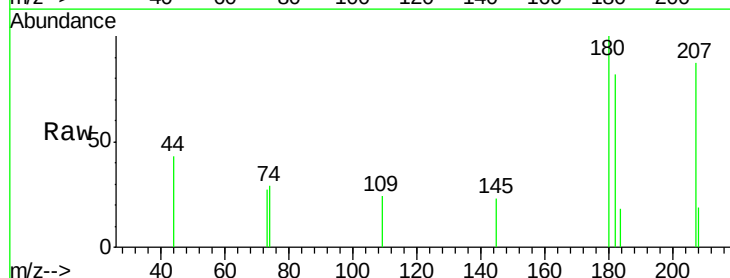
Tgt Ion:180 Resp: 1457

Ion Ratio Lower Upper

180 100

182 91.4 47.9 143.6

145 25.1 17.3 51.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

