

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081120\
 Data File : VN062826.D
 Acq On : 11 Aug 2020 13:28
 Operator : JC/MD
 Sample : PB130875TB
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130875TB

Quant Time: Aug 11 14:50:58 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	130620	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	226646	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	226814	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	84700	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	107035	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
35) Dibromofluoromethane	7.55	113	76408	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
50) Toluene-d8	10.06	98	288623	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
62) 4-Bromofluorobenzene	12.38	95	108931	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	

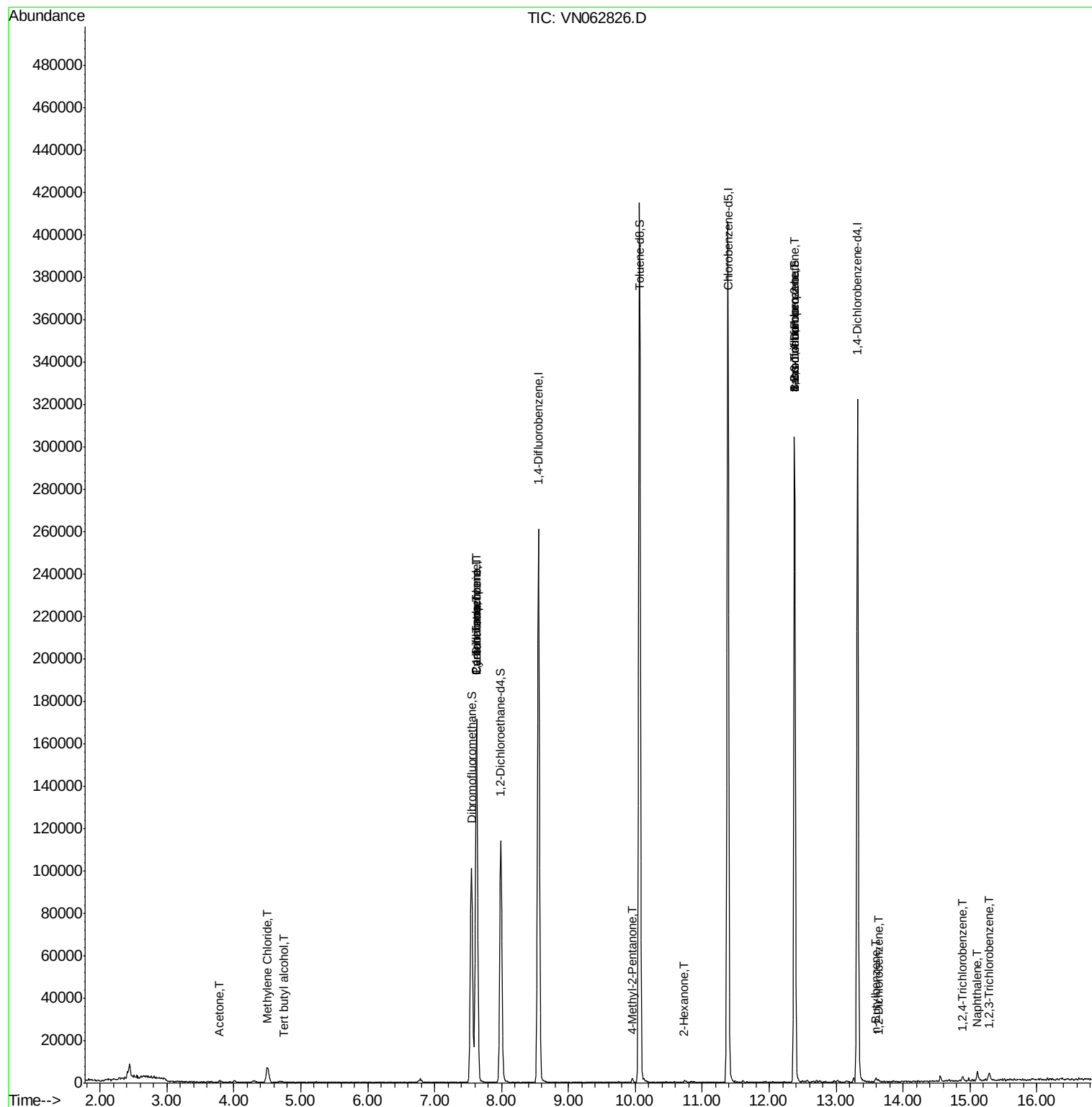
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	105	0.297	ug/l #	72
16) Acetone	3.78	43	1229	1.575	ug/l #	45
17) Carbon Disulfide	4.01	76	1223	Below Cal	#	74
18) Methyl Acetate	4.28	43	534	Below Cal	#	52
20) Methylene Chloride	4.50	84	5648	3.243	ug/l	97
31) Cyclohexane	7.63	56	3080	1.176	ug/l #	6
36) 1,1-Dichloropropene	7.63	75	10323	4.678	ug/l #	49
38) Carbon Tetrachloride	7.63	117	14316	5.485	ug/l #	15
51) 4-Methyl-2-Pentanone	9.96	43	1596	0.642	ug/l #	65
59) 2-Hexanone	10.73	43	1424	0.767	ug/l #	39
71) Bromoform	12.37	173	381	0.245	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	57921	25.357	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	57921	77.406	ug/l #	10
89) n-Butylbenzene	13.60	91	1635	0.354	ug/l	96
91) 1,2-Dichlorobenzene	13.64	146	657	0.248	ug/l #	62
93) 1,2,4-Trichlorobenzene	14.89	180	1025	3.993	ug/l	92
94) Hexachlorobutadiene	14.99	225	242	Below Cal	#	36
95) Naphthalene	15.11	128	4884	4.869	ug/l	96
96) 1,2,3-Trichlorobenzene	15.29	180	1512	3.758	ug/l	95

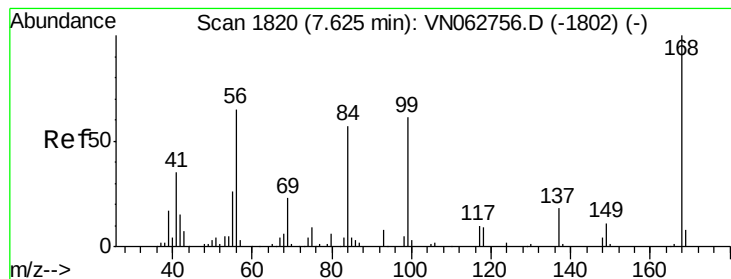
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062826.D

Acq: 11 Aug 2020 13:28

Instrument :

MSVOA_N

ClientSampleId :

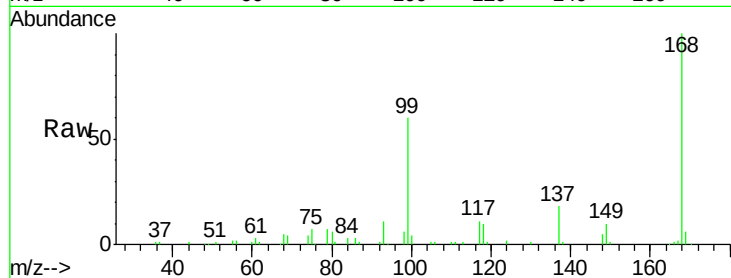
PB130875TB

Tgt Ion: 168 Resp: 130620

Ion Ratio Lower Upper

168 100

99 59.9 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

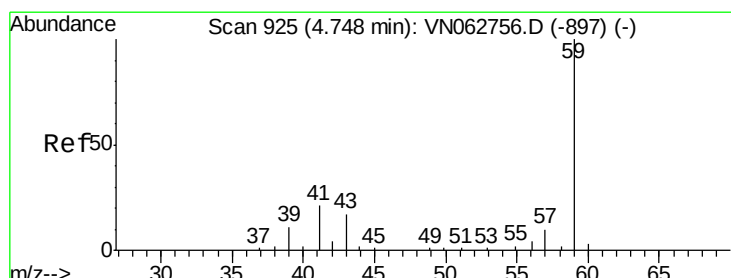
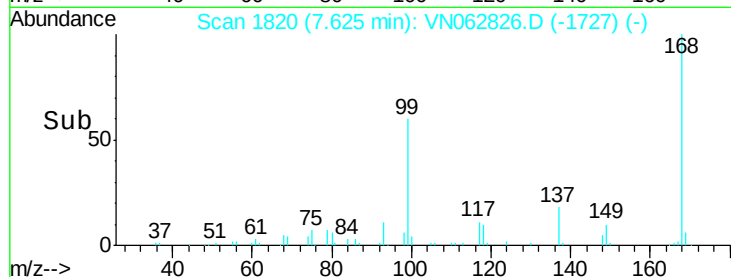
0

7.50

7.60

7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.297 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.00 min

Lab File: VN062826.D

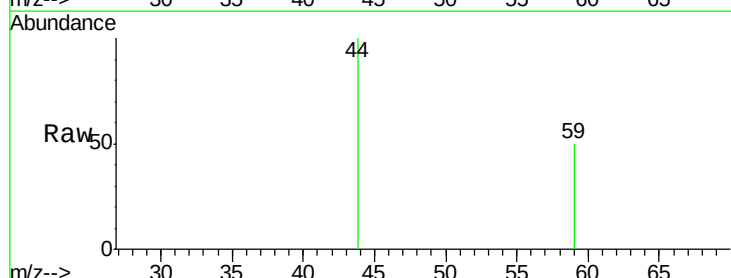
Acq: 11 Aug 2020 13:28

Tgt Ion: 59 Resp: 105

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

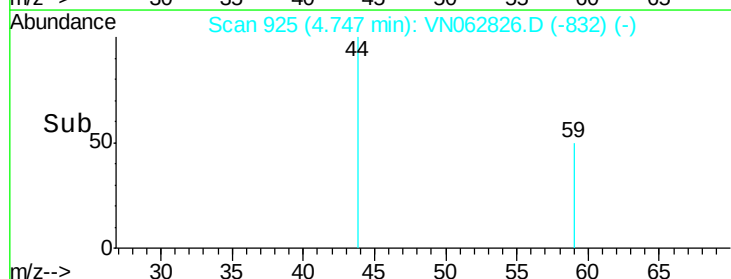
0

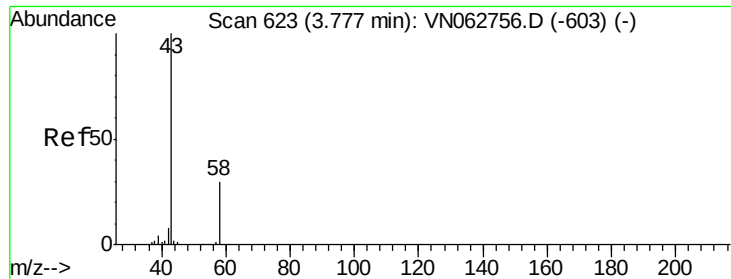
4.74

4.75

4.76

Time-->

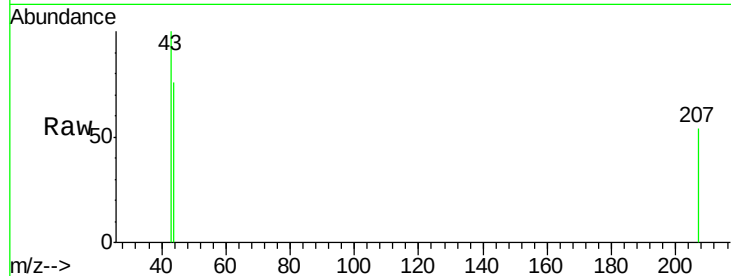




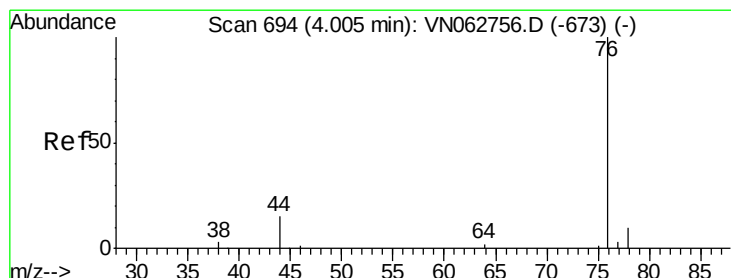
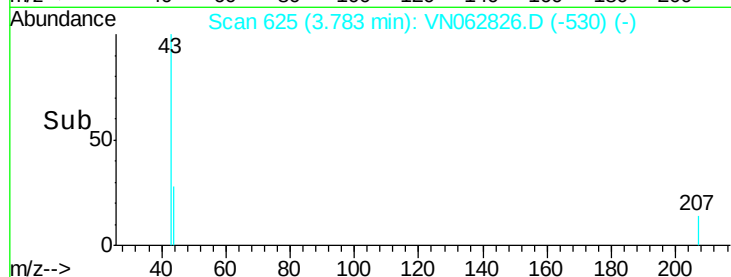
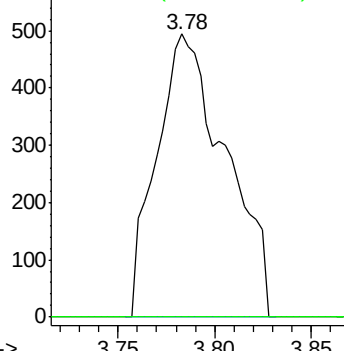
#16
Acetone
Concen: 1.575 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

Instrument :
MSVOA_N
ClientSampled :
PB130875TB

Tgt Ion: 43 Resp: 1229
Ion Ratio Lower Upper
43 100
58 0.0 24.1 36.1#

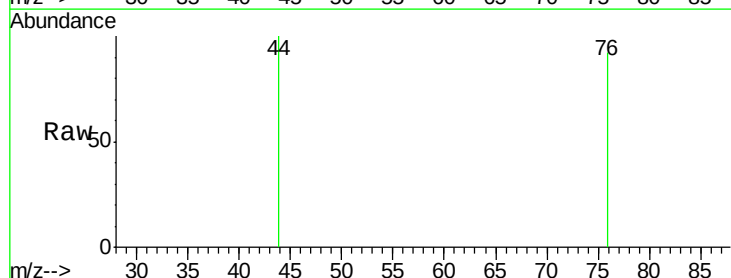


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

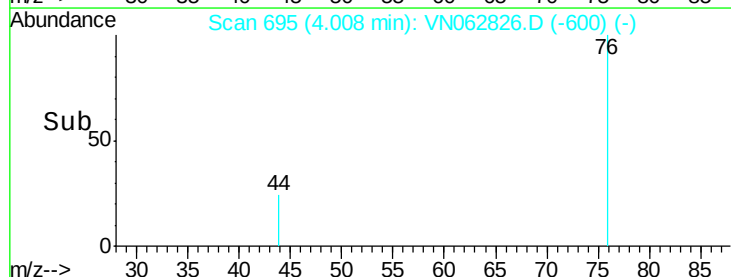
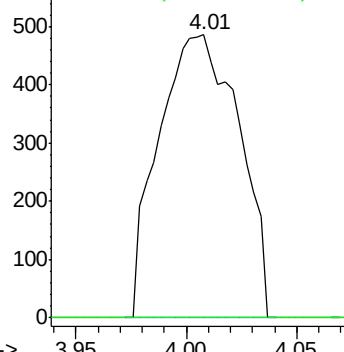


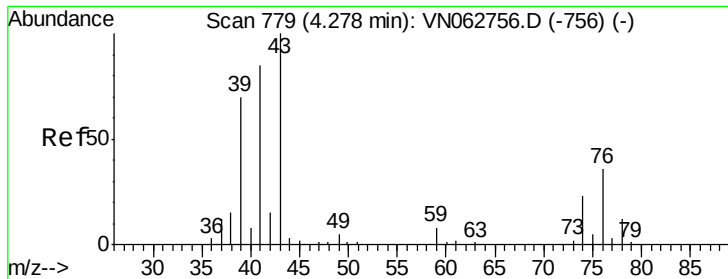
#17
Carbon Disulfide
Concen: Below Cal
RT: 4.01 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

Tgt Ion: 76 Resp: 1223
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

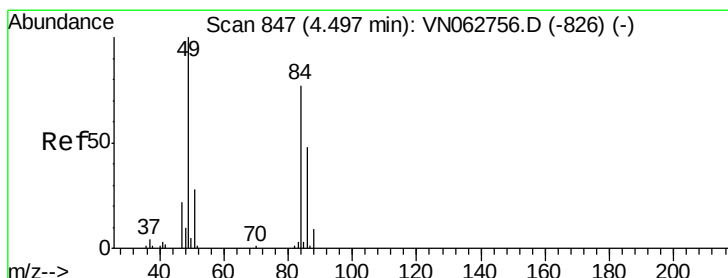
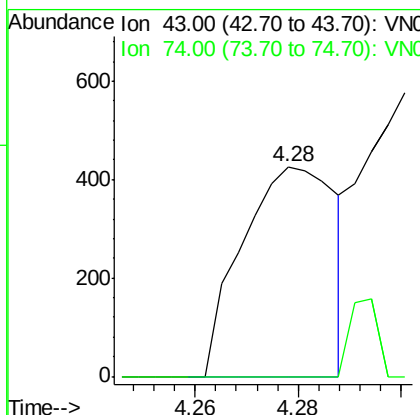
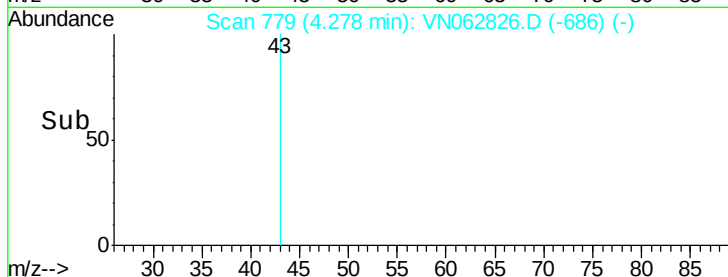
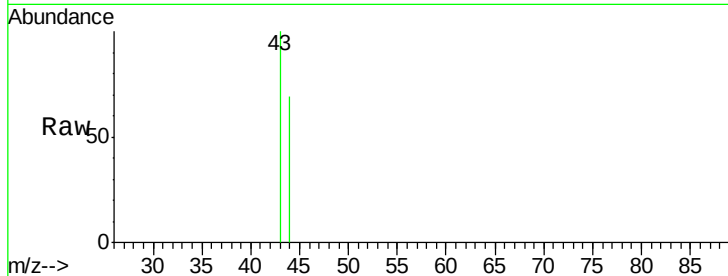




#18
Methyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 779
Delta R.T. 0.00 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

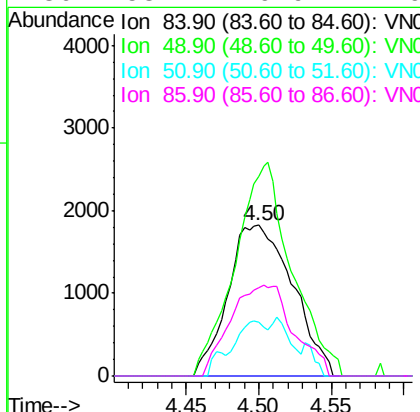
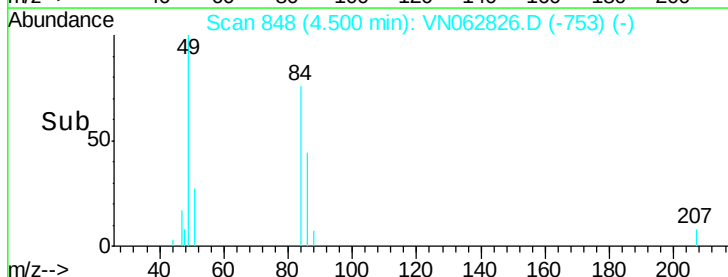
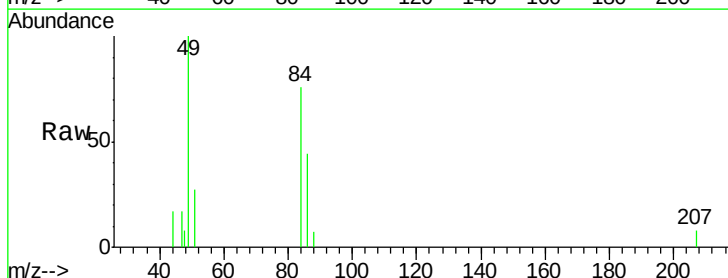
Instrument :
MSVOA_N
ClientSampleId :
PB130875TB

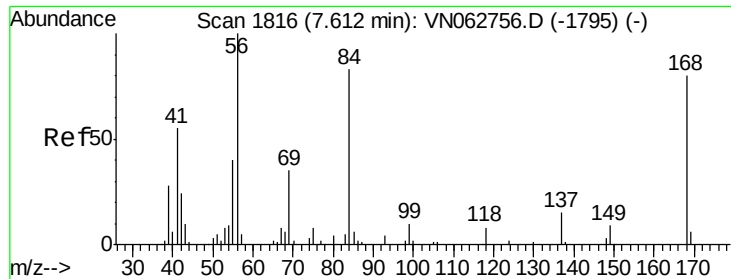
Tgt Ion: 43 Resp: 534
Ion Ratio Lower Upper
43 100
74 0.0 18.6 28.0#



#20
Methylene Chloride
Concen: 3.243 ug/l
RT: 4.50 min Scan# 848
Delta R.T. 0.00 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

Tgt Ion: 84 Resp: 5648
Ion Ratio Lower Upper
84 100
49 132.4 103.4 155.2
51 35.5 29.3 43.9
86 58.4 49.9 74.9

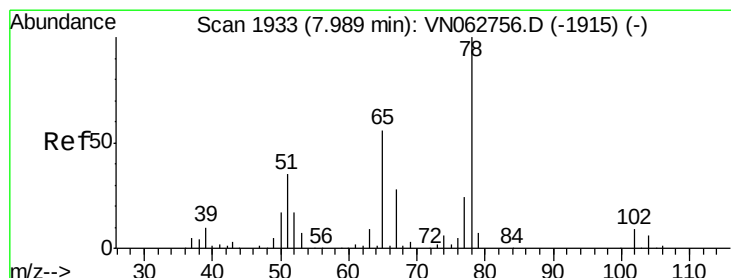
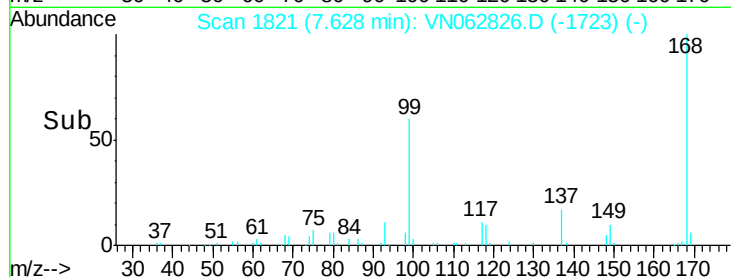
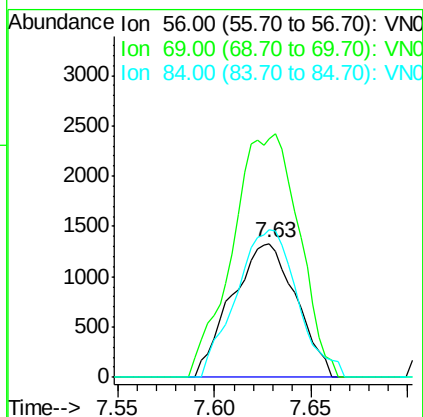
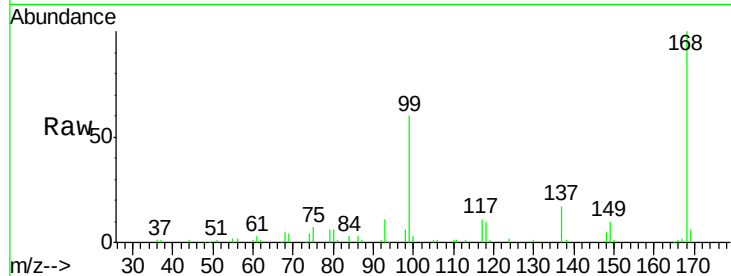




#31
Cyclohexane
Concen: 1.176 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

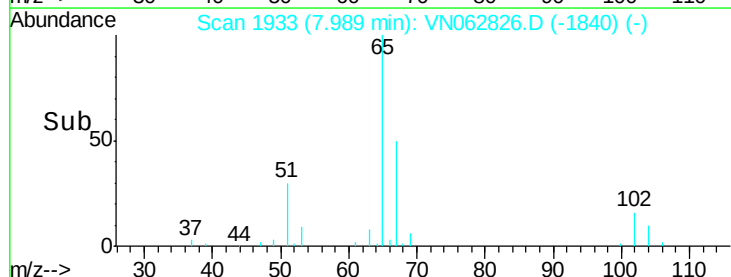
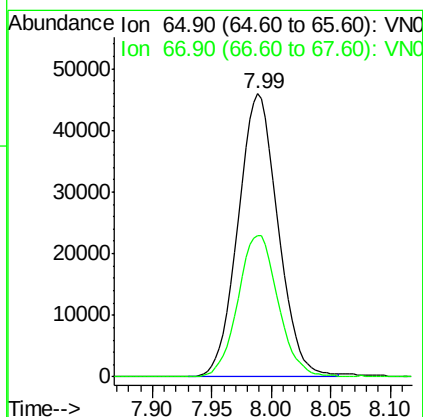
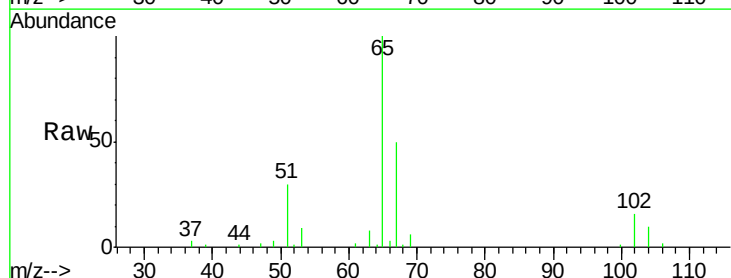
Instrument :
MSVOA_N
ClientSampleId :
PB130875TB

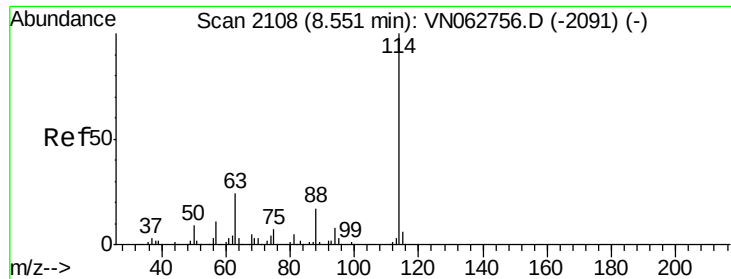
Tgt Ion: 56 Resp: 3080
Ion Ratio Lower Upper
56 100
69 178.2 28.1 42.1#
84 110.1 66.8 100.2#



#33
1,2-Dichloroethane-d4
Concen: 49.552 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

Tgt Ion: 65 Resp: 107035
Ion Ratio Lower Upper
65 100
67 50.1 0.0 101.4

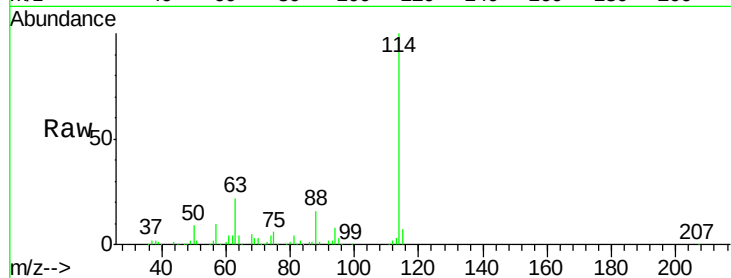




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062826.D
 Acq: 11 Aug 2020 13:28

Instrument :
 MSVOA_N
 ClientSampled :
 PB130875TB

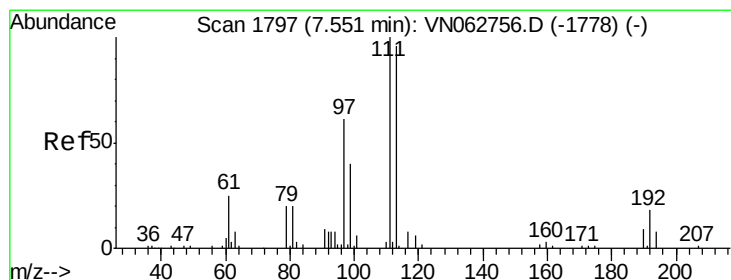
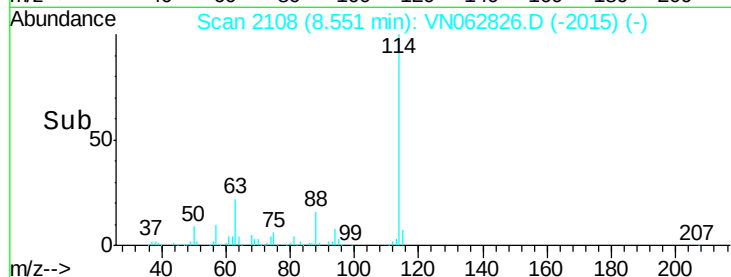
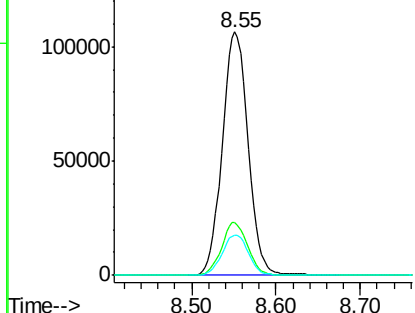
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	47.6
88	16.5	0.0	34.4



Abundance Ion 113.90 (113.60 to 114.60): V

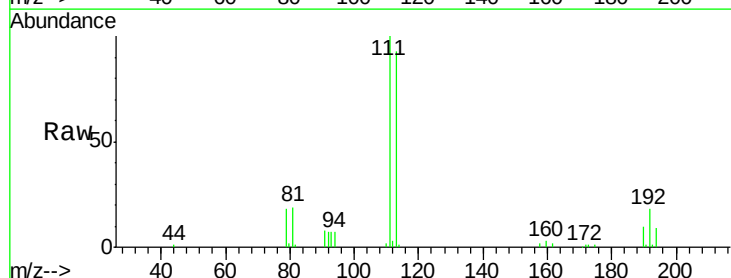
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 49.283 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VN062826.D
 Acq: 11 Aug 2020 13:28

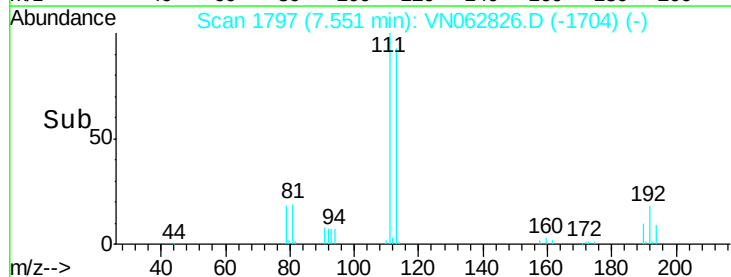
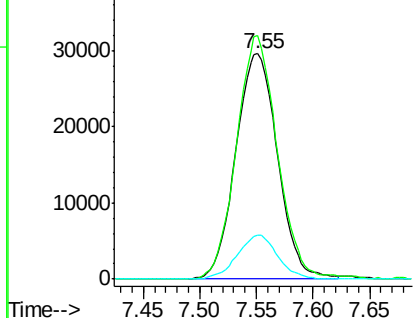
Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.4	81.8	122.6
192	18.8	15.0	22.4

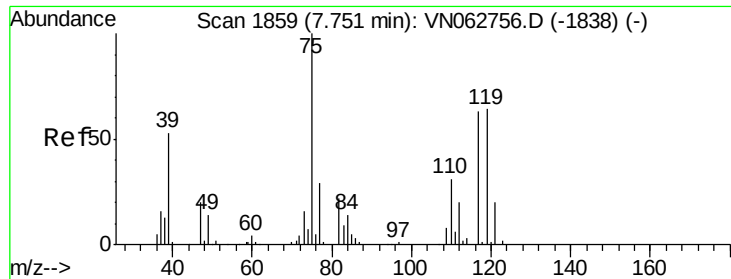


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

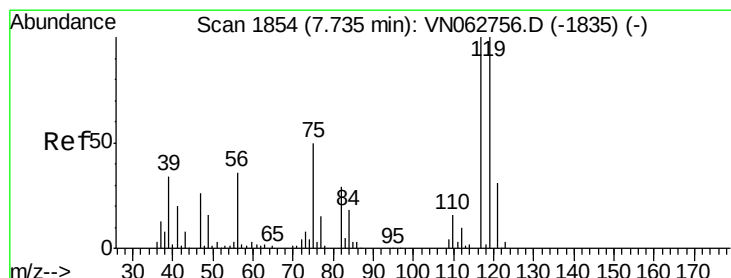
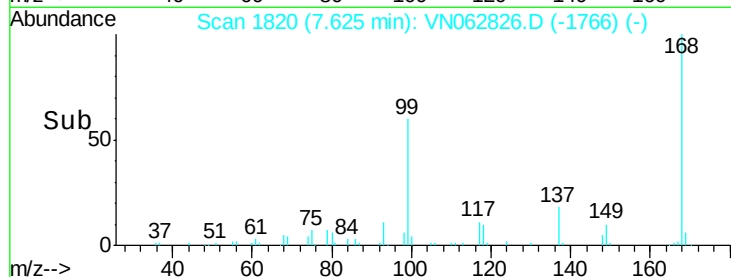
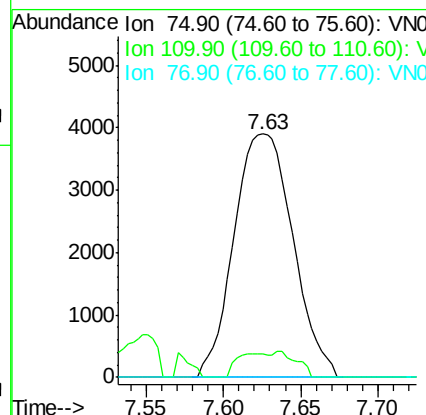
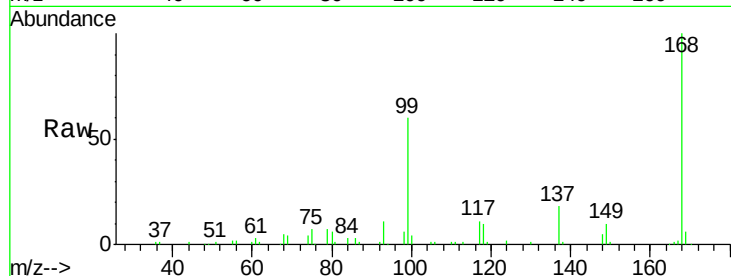




#36
 1,1-Dichloropropene
 Concen: 4.678 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062826.D
 Acq: 11 Aug 2020 13:28

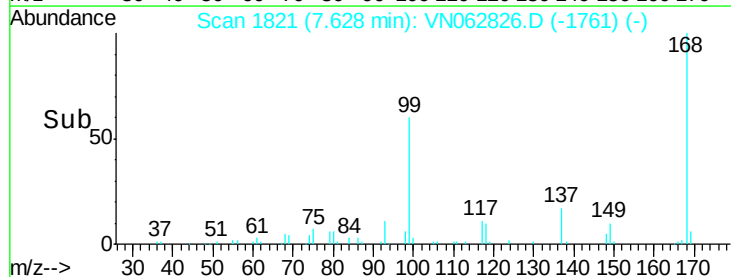
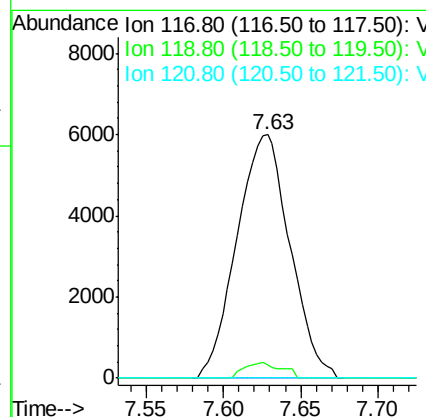
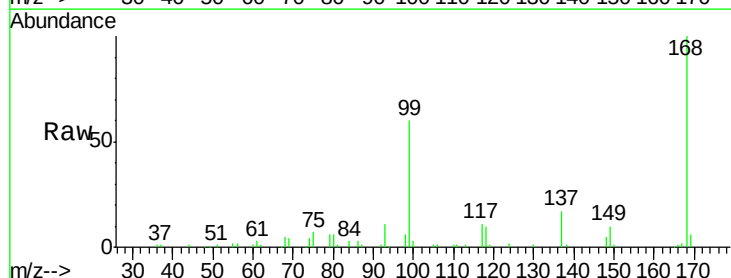
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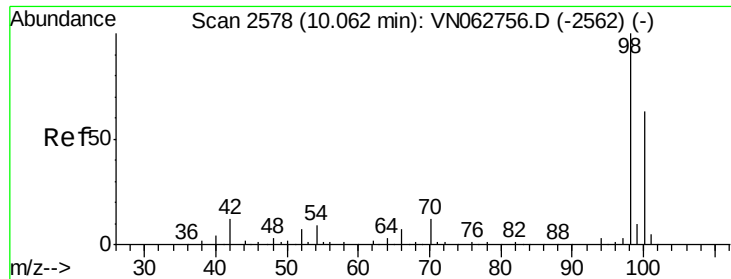
Tgt Ion: 75 Resp: 10323
 Ion Ratio Lower Upper
 75 100
 110 5.2 15.6 46.7#
 77 0.0 24.1 36.1#



#38
 Carbon Tetrachloride
 Concen: 5.485 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.11 min
 Lab File: VN062826.D
 Acq: 11 Aug 2020 13:28

Tgt Ion: 117 Resp: 14316
 Ion Ratio Lower Upper
 117 100
 119 5.6 79.4 119.2#
 121 0.0 24.9 37.3#

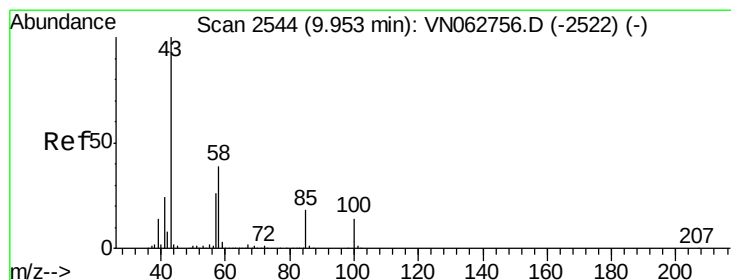
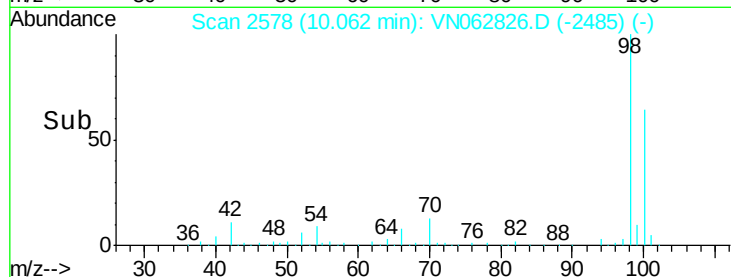
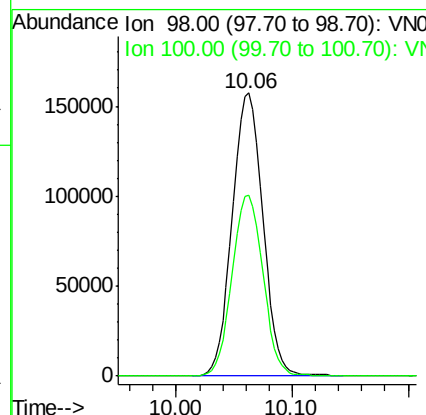
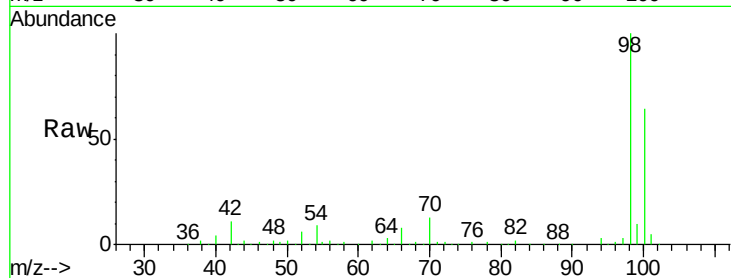




#50
Toluene-d8
Concen: 47.684 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. -0.00 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

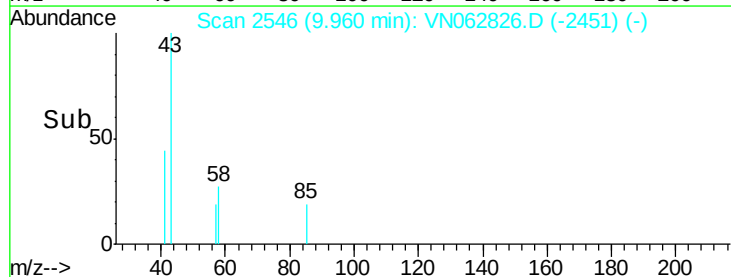
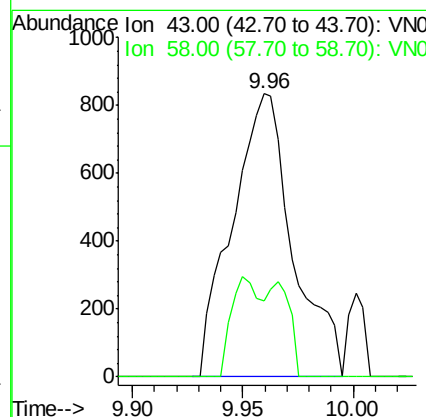
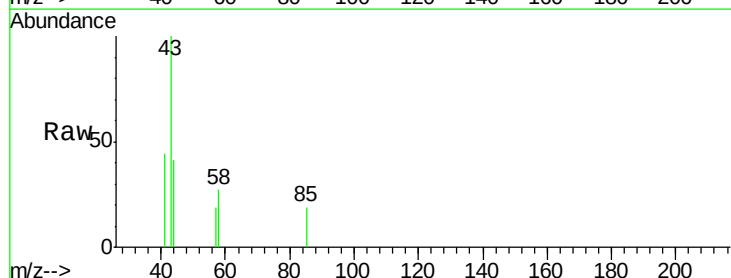
Instrument :
MSVOA_N
ClientSampled :
PB130875TB

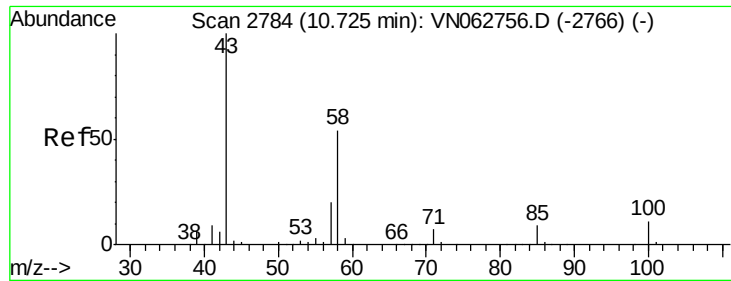
Tgt Ion: 98 Resp: 288623
Ion Ratio Lower Upper
98 100
100 64.3 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.642 ug/l
RT: 9.96 min Scan# 2546
Delta R.T. 0.01 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

Tgt Ion: 43 Resp: 1596
Ion Ratio Lower Upper
43 100
58 17.3 31.1 46.7#

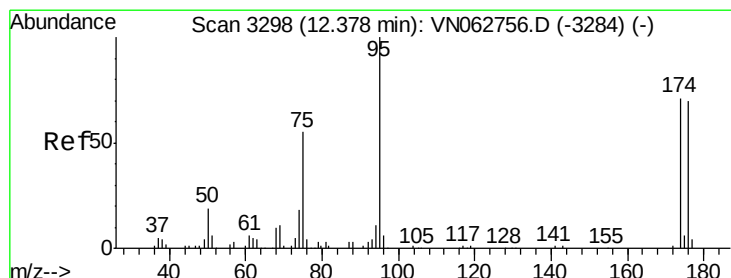
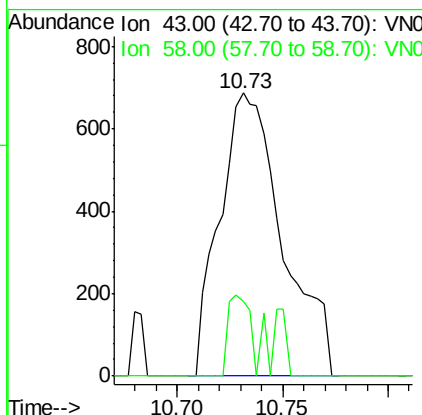
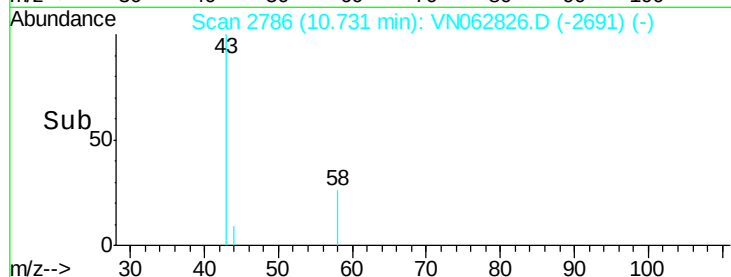
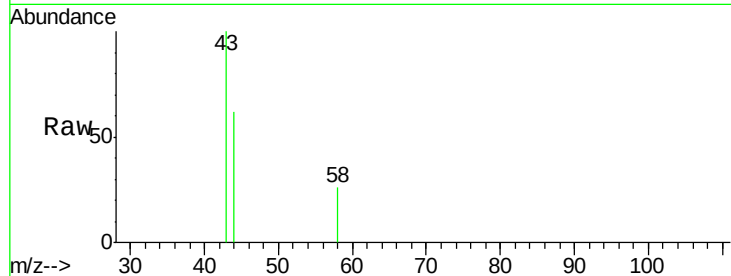




#59
 2-Hexanone
 Concen: 0.767 ug/l
 RT: 10.73 min Scan# 2786
 Delta R.T. 0.01 min
 Lab File: VN062826.D
 Acq: 11 Aug 2020 13:28

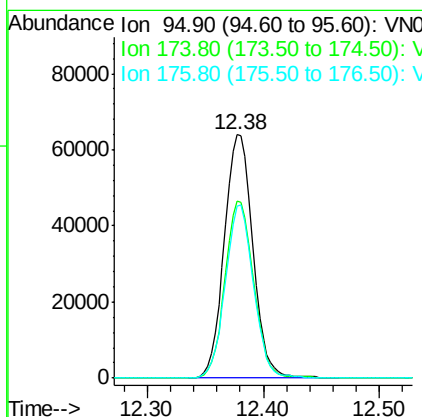
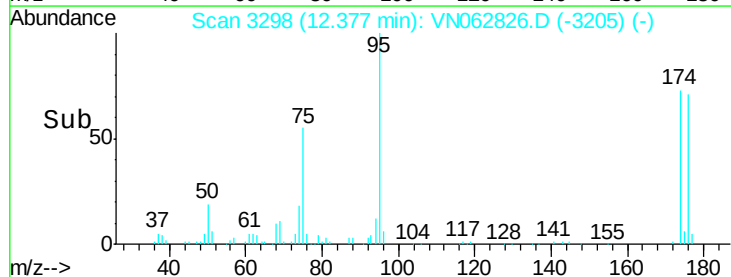
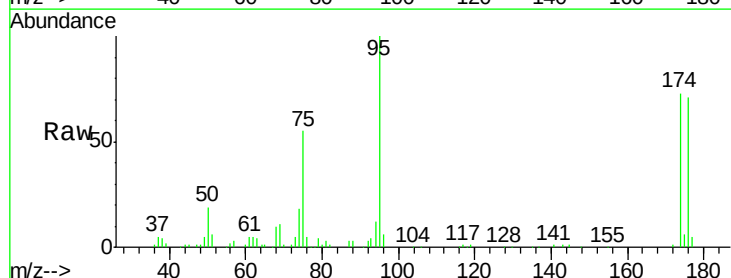
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130875TB

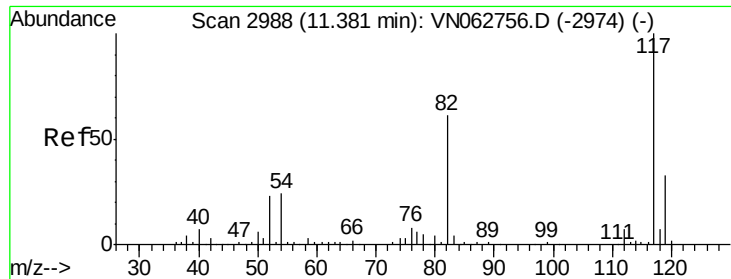
Tgt Ion: 43 Resp: 1424
 Ion Ratio Lower Upper
 43 100
 58 9.7 26.7 80.1#



#62
 4-Bromofluorobenzene
 Concen: 47.623 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN062826.D
 Acq: 11 Aug 2020 13:28

Tgt Ion: 95 Resp: 108931
 Ion Ratio Lower Upper
 95 100
 174 72.2 0.0 144.8
 176 69.8 0.0 142.2

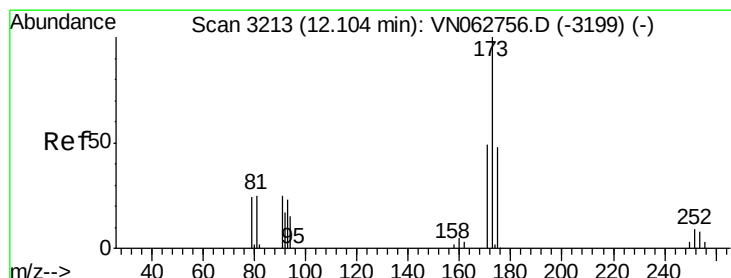
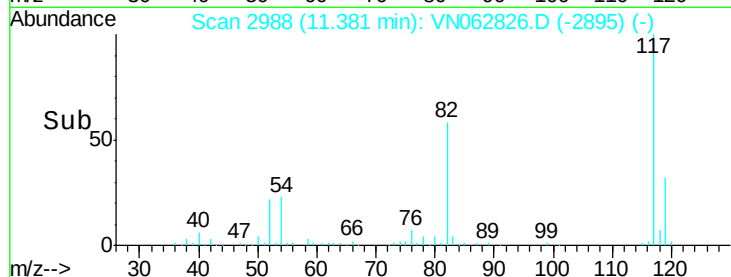
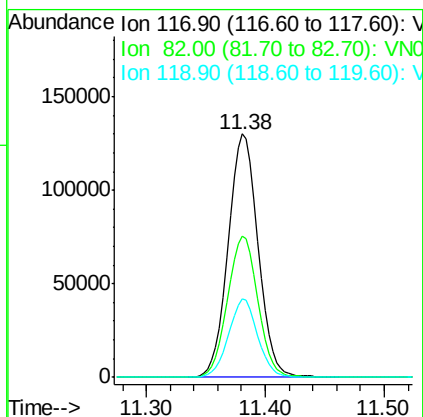
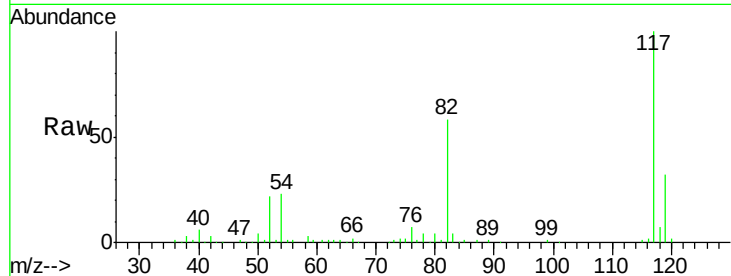




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

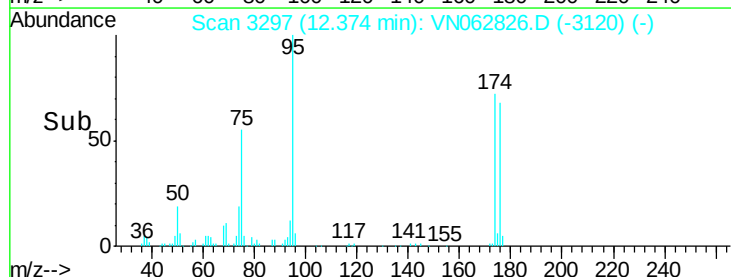
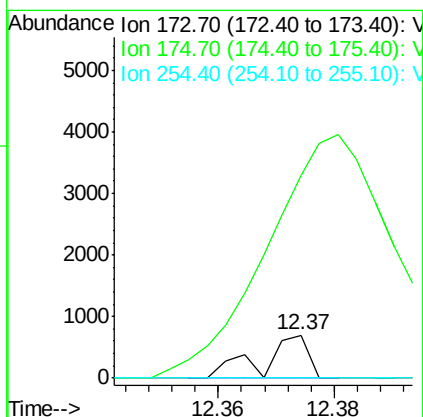
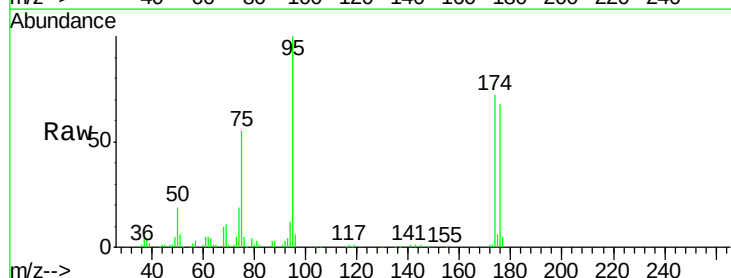
Instrument :
MSVOA_N
ClientSampleId :
PB130875TB

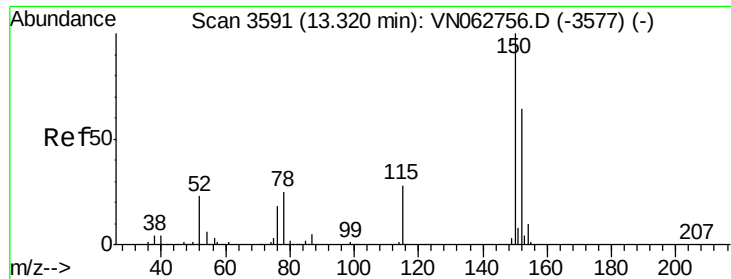
Tgt Ion:117 Resp: 226814
Ion Ratio Lower Upper
117 100
82 58.2 49.0 73.4
119 32.2 26.2 39.2



#71
Bromoform
Concen: 0.245 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. 0.27 min
Lab File: VN062826.D
Acq: 11 Aug 2020 13:28

Tgt Ion:173 Resp: 381
Ion Ratio Lower Upper
173 100
175 1390.0 24.0 72.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. -0.00 min

Lab File: VN062826.D

Acq: 11 Aug 2020 13:28

Instrument :

MSVOA_N

ClientSampled :

PB130875TB

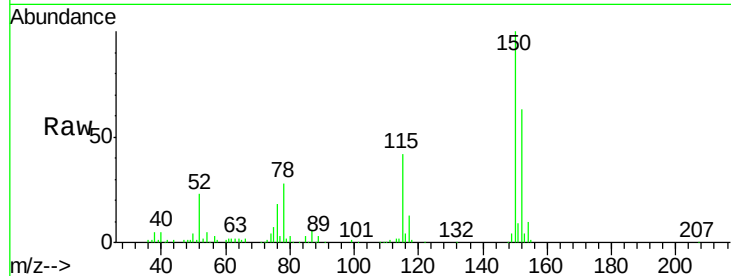
Tgt Ion:152 Resp: 84700

Ion Ratio Lower Upper

152 100

115 64.5 31.6 94.8

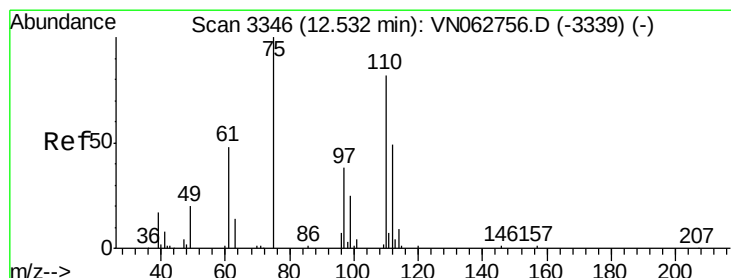
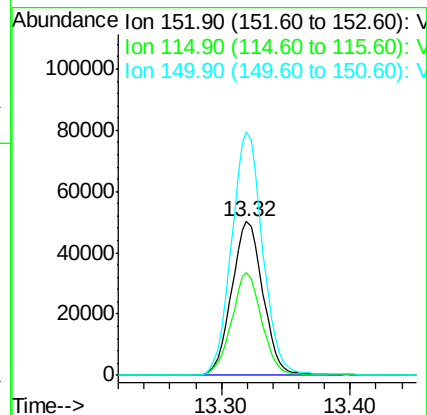
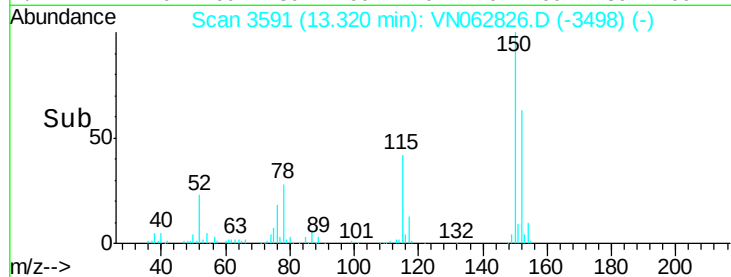
150 156.6 0.0 349.2



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: 25.357 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062826.D

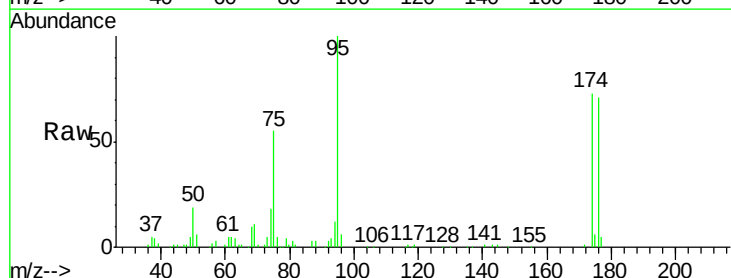
Acq: 11 Aug 2020 13:28

Tgt Ion: 75 Resp: 57921

Ion Ratio Lower Upper

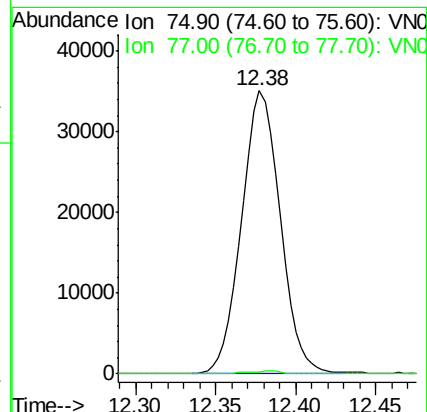
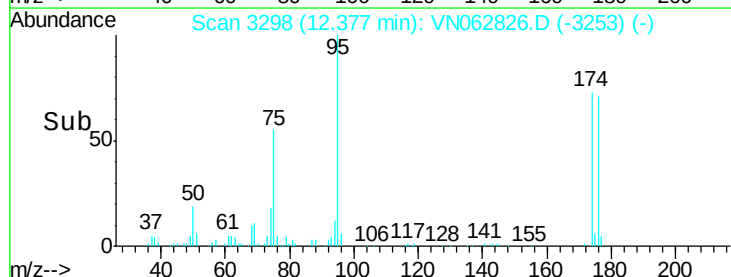
75 100

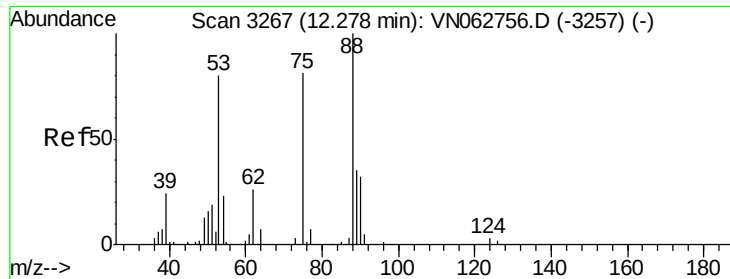
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 77.406 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062826.D

Acq: 11 Aug 2020 13:28

Instrument :

MSVOA_N

ClientSampled :

PB130875TB

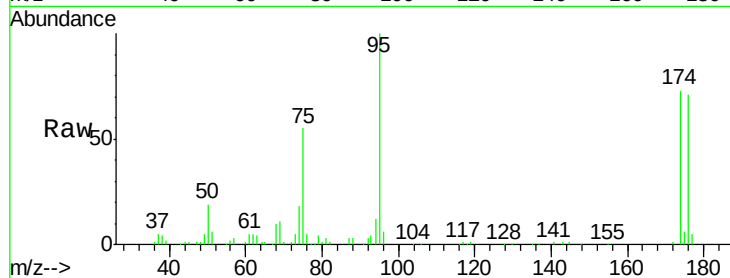
Tgt Ion: 75 Resp: 57921

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

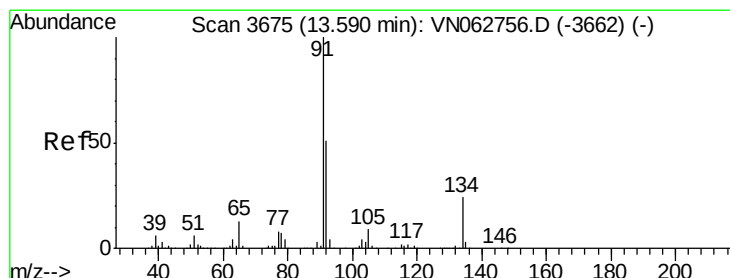
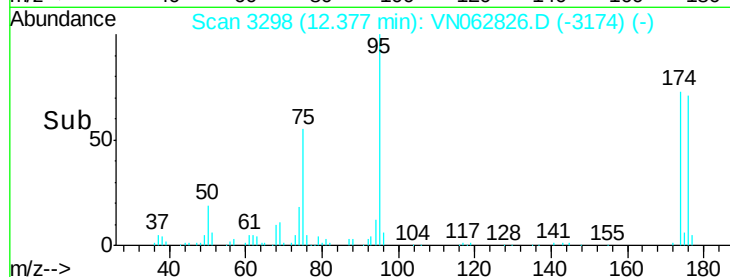
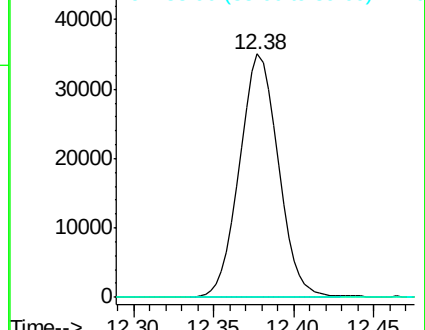
89 0.0 36.2 54.2#



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



#89

n-Butylbenzene

Concen: 0.354 ug/l

RT: 13.60 min Scan# 3677

Delta R.T. 0.01 min

Lab File: VN062826.D

Acq: 11 Aug 2020 13:28

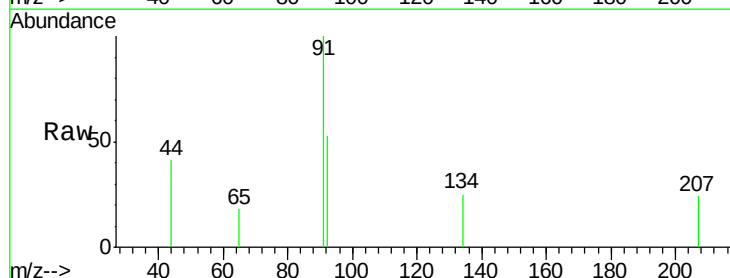
Tgt Ion: 91 Resp: 1635

Ion Ratio Lower Upper

91 100

92 51.1 25.7 77.0

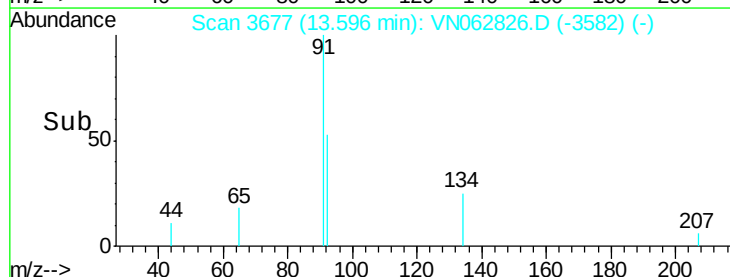
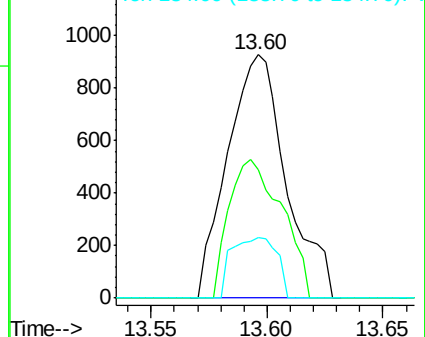
134 19.1 12.2 36.6

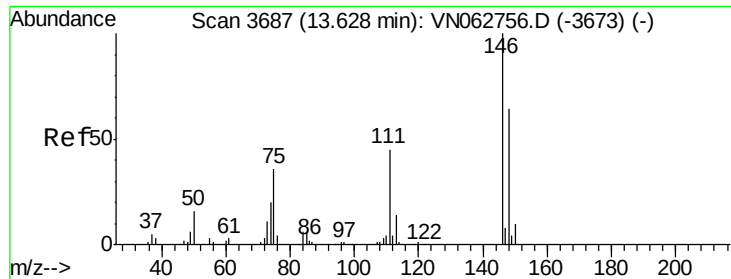


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

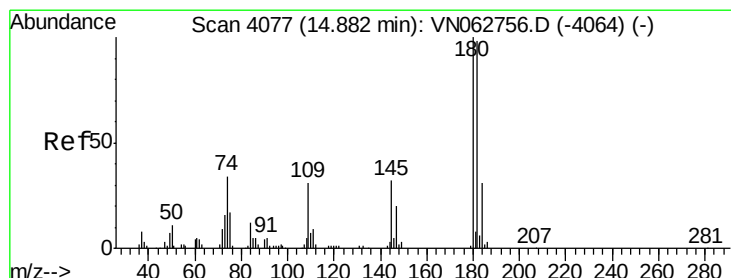
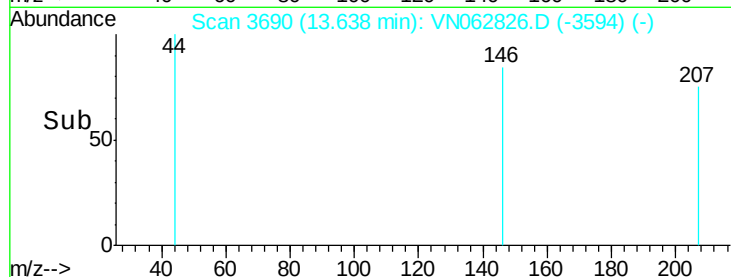
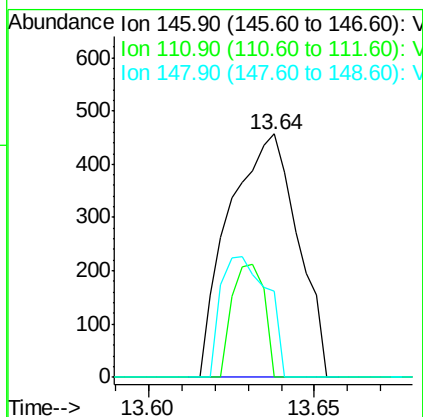
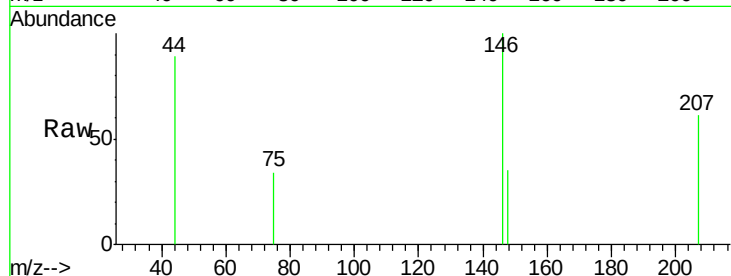




#91
 1,2-Dichlorobenzene
 Concen: 0.248 ug/l
 RT: 13.64 min Scan# 3690
 Delta R.T. 0.01 min
 Lab File: VN062826.D
 Acq: 11 Aug 2020 13:28

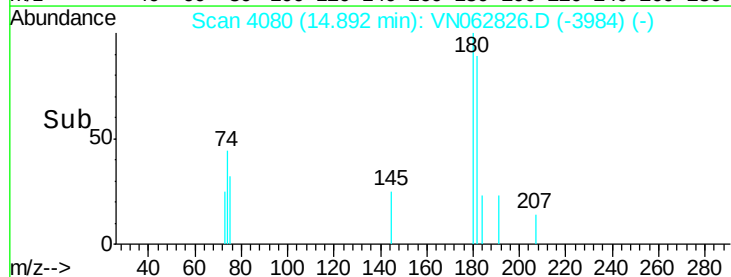
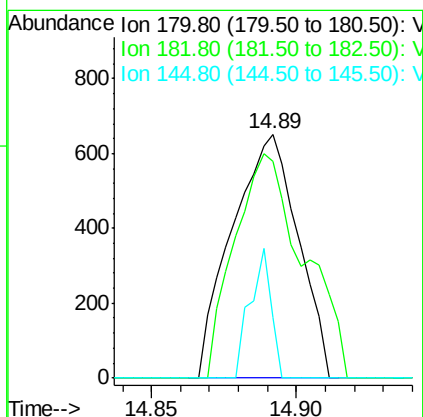
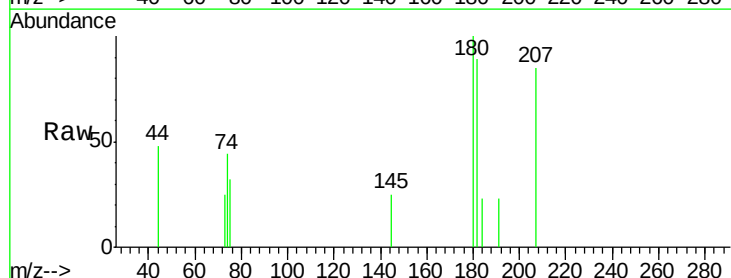
Instrument :
 MSVOA_N
 ClientSampled :
 PB130875TB

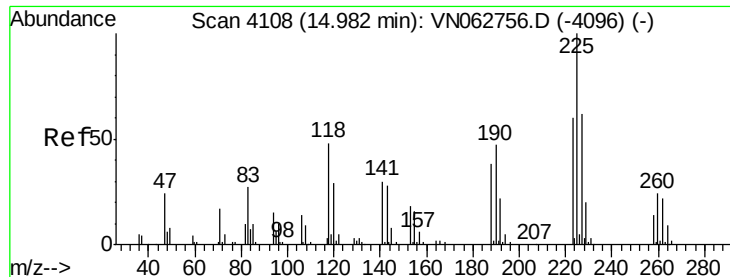
Tgt Ion:146 Resp: 657
 Ion Ratio Lower Upper
 146 100
 111 21.8 22.8 68.4#
 148 33.6 31.9 95.5



#93
 1,2,4-Trichlorobenzene
 Concen: 3.993 ug/l
 RT: 14.89 min Scan# 4080
 Delta R.T. 0.01 min
 Lab File: VN062826.D
 Acq: 11 Aug 2020 13:28

Tgt Ion:180 Resp: 1025
 Ion Ratio Lower Upper
 180 100
 182 96.8 49.1 147.4
 145 17.0 16.3 48.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 14.99 min Scan# 4109

Delta R.T. 0.00 min

Lab File: VN062826.D

Acq: 11 Aug 2020 13:28

Instrument :

MSVOA_N

ClientSampled :

PB130875TB

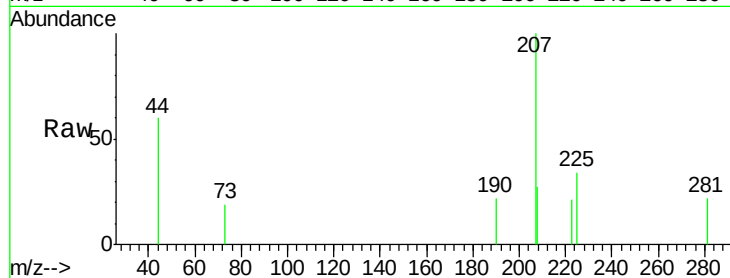
Tgt Ion:225 Resp: 242

Ion Ratio Lower Upper

225 100

223 26.0 30.6 92.0#

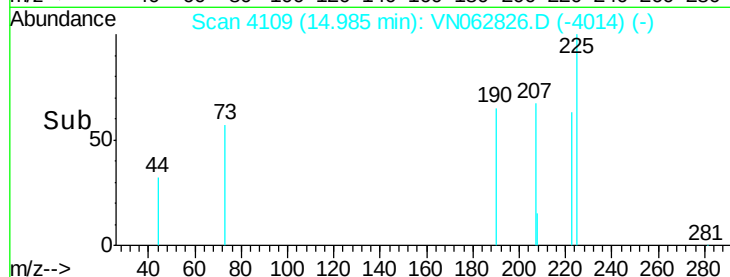
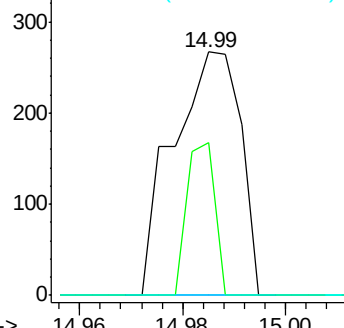
227 0.0 31.6 95.0#



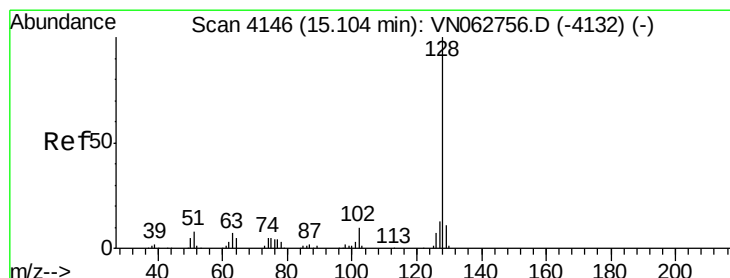
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 4.869 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062826.D

Acq: 11 Aug 2020 13:28

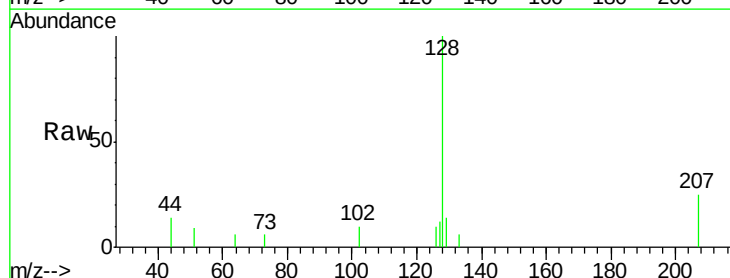
Tgt Ion:128 Resp: 4884

Ion Ratio Lower Upper

128 100

127 11.8 10.8 16.2

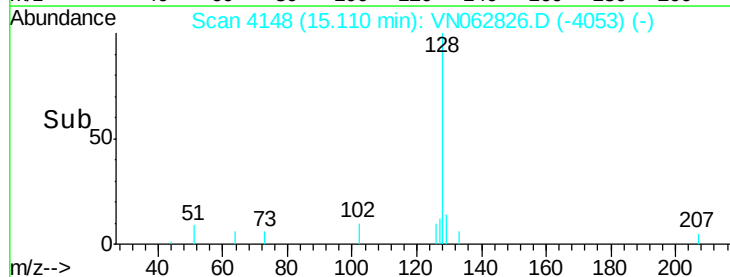
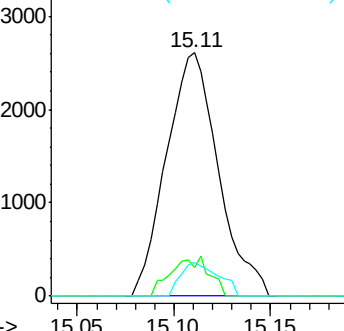
129 9.9 8.8 13.2

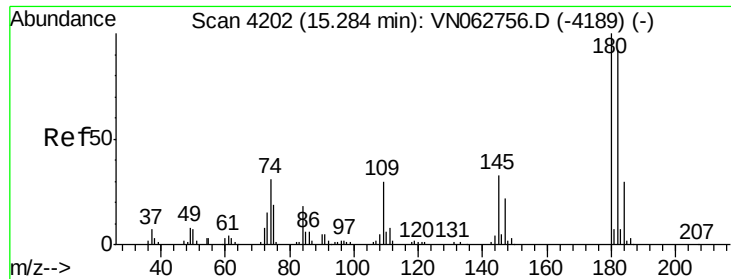


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 3.758 ug/l
 RT: 15.29 min Scan# 4203
 Delta R.T. 0.00 min
 Lab File: VN062826.D
 Acq: 11 Aug 2020 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130875TB

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.9	47.9	143.6
145	30.4	17.3	51.7

