

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081220\
 Data File : VN062887.D
 Acq On : 13 Aug 2020 4:20
 Operator : JC/MD
 Sample : PB130908ZHE#17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130908ZHE#17

Quant Time: Aug 13 05:30:07 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	123199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	211663	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	227724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	82480	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	104383	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
35) Dibromofluoromethane	7.55	113	76028	52.51	ug/l	0.00
Spiked Amount			Recovery	=	105.02%	
50) Toluene-d8	10.06	98	279579	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
62) 4-Bromofluorobenzene	12.38	95	103360	48.39	ug/l	0.00
Spiked Amount			Recovery	=	96.78%	

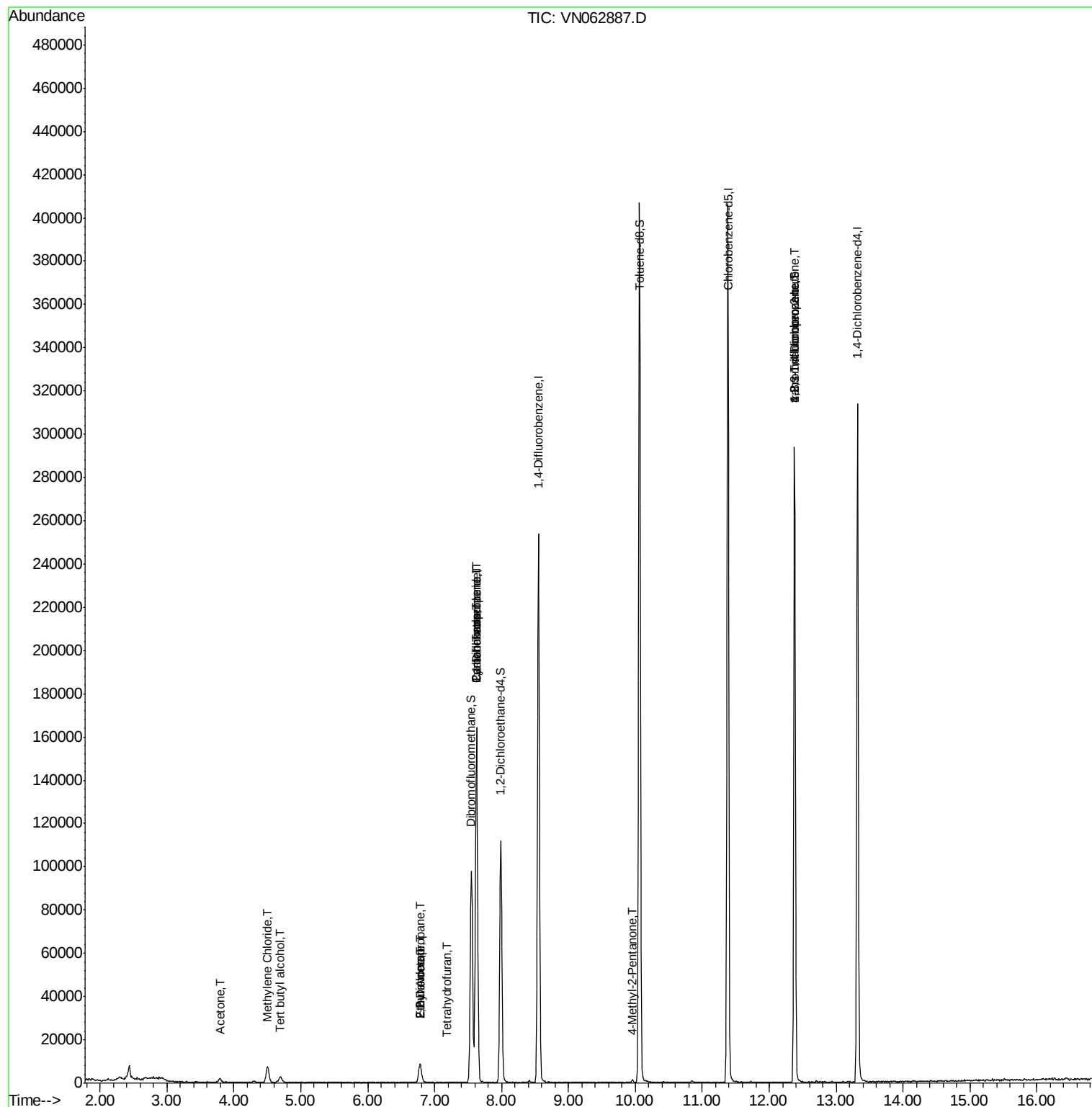
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.69	59	2611	7.819	ug/l #	72
16) Acetone	3.79	43	3395	4.612	ug/l	92
18) Methyl Acetate	4.30	43	1043	Below Cal	#	52
20) Methylene Chloride	4.50	84	6153	3.866	ug/l	97
25) 2-Butanone	6.79	43	472	0.453	ug/l #	49
26) 2,2-Dichloropropane	6.78	77	509	0.205	ug/l #	55
29) Tetrahydrofuran	7.18	42	141	0.208	ug/l #	33
31) Cyclohexane	7.63	56	2796	1.132	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	10817	5.248	ug/l #	50
37) Ethyl Acetate	6.79	43	472	0.219	ug/l #	54
38) Carbon Tetrachloride	7.62	117	13077	5.365	ug/l #	14
51) 4-Methyl-2-Pentanone	9.96	43	1297	0.558	ug/l #	69
76) 1,2,3-Trichloropropane	12.38	75	55561	24.978	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	55561	76.251	ug/l #	10

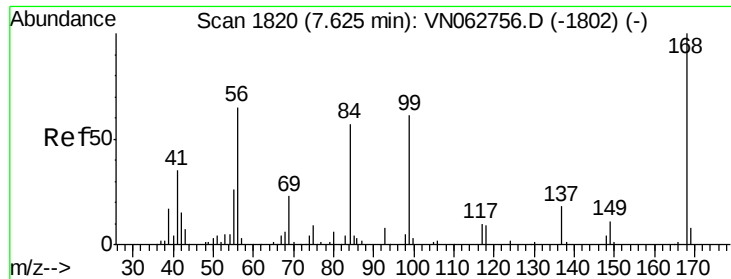
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN081220\
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QLast Update : Wed Aug 05 13:26:42 2020
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: VN062887.D

Acq: 13 Aug 2020 4:20

Instrument :

MSVOA_N

ClientSampleId :

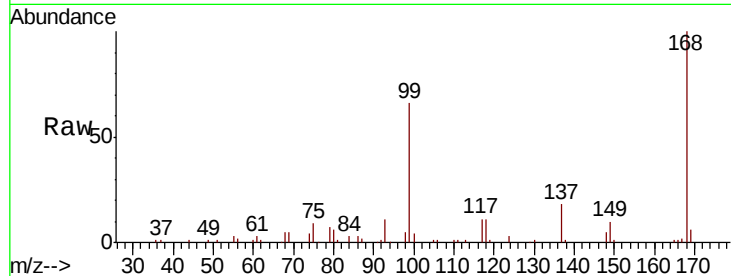
PB130908ZHE#17

Tot Ion:168 Resp: 123199

Ion Ratio Lower Upper

168 100

99 65.7 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

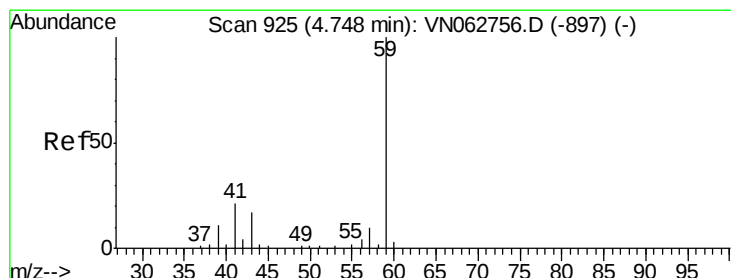
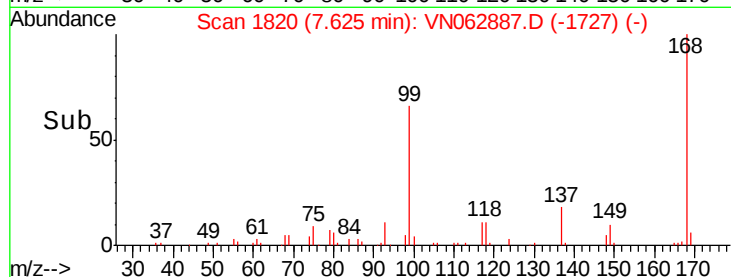
20000

10000

0

7.55 7.60 7.65 7.70

Time-->



#11

Tert butyl alcohol

Concen: 7.819 ug/l

RT: 4.69 min Scan# 908

Delta R.T. -0.05 min

Lab File: VN062887.D

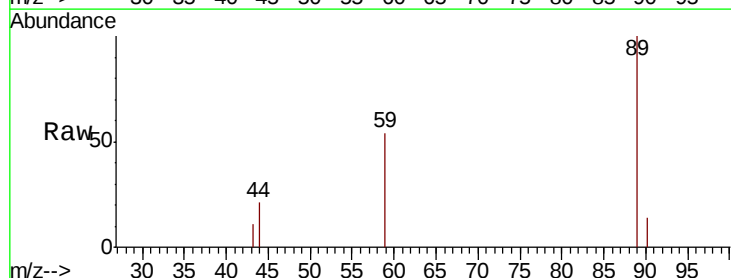
Acq: 13 Aug 2020 4:20

Tgt Ion: 59 Resp: 2611

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

800

600

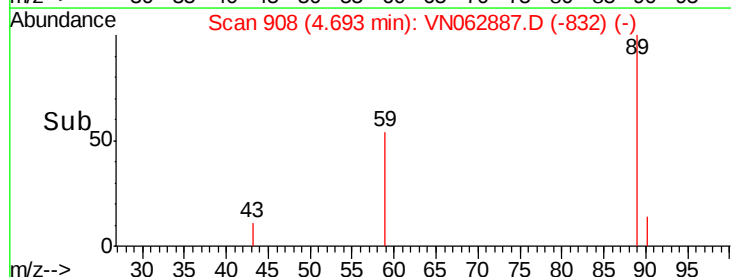
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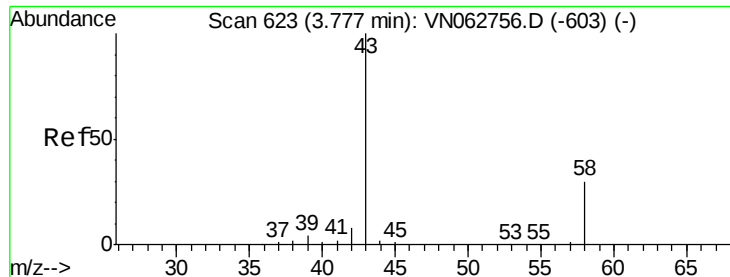
200

0

4.60 4.65 4.70 4.75

Time-->





#16

Acetone

Concen: 4.612 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062887.D

Acq: 13 Aug 2020 4:20

Instrument :

MSVOA_N

ClientSampleId :

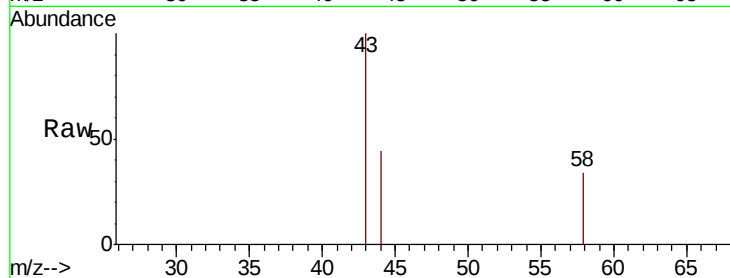
PB130908ZHE#17

Tot Ion: 43 Resp: 3395

Ion Ratio Lower Upper

43 100

58 34.3 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN062756.D (-603) (-)

3.79

1200

1000

800

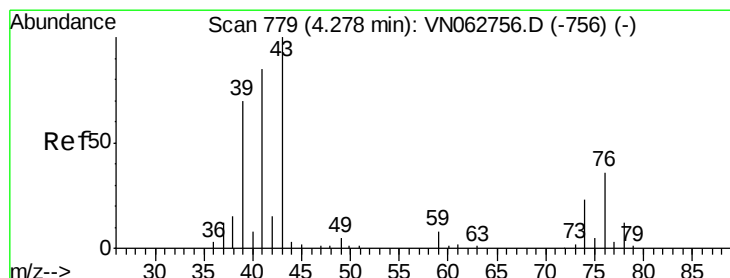
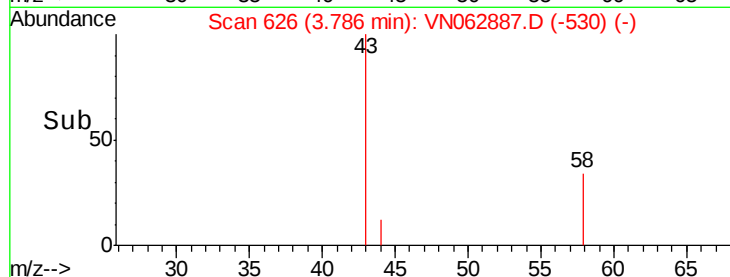
600

400

200

0

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.30 min Scan# 785

Delta R.T. 0.02 min

Lab File: VN062887.D

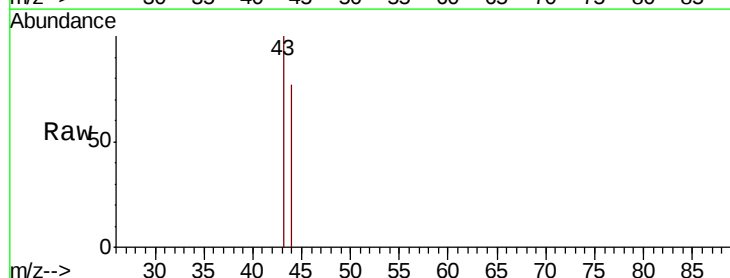
Acq: 13 Aug 2020 4:20

Tgt Ion: 43 Resp: 1043

Ion Ratio Lower Upper

43 100

74 0.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-756) (-)

Ion 74.00 (73.70 to 74.70): VN062756.D (-756) (-)

4.30

500

400

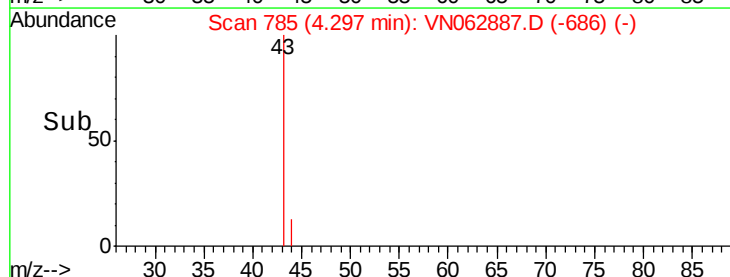
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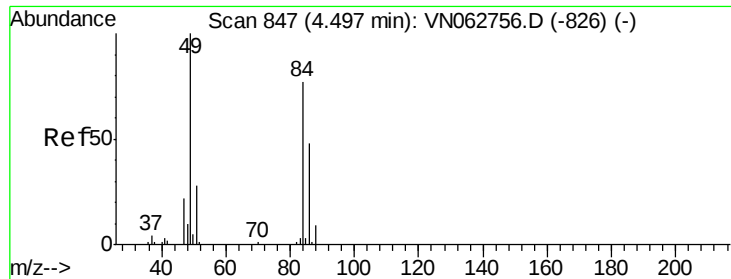
200

100

0

Time-->

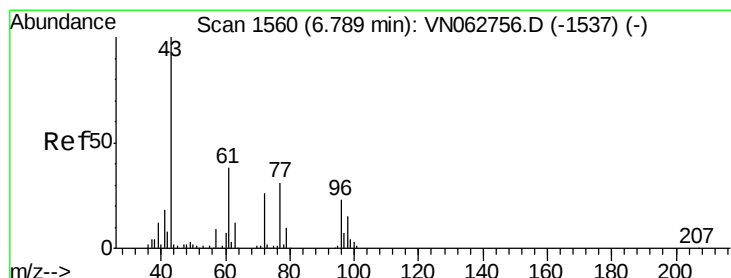
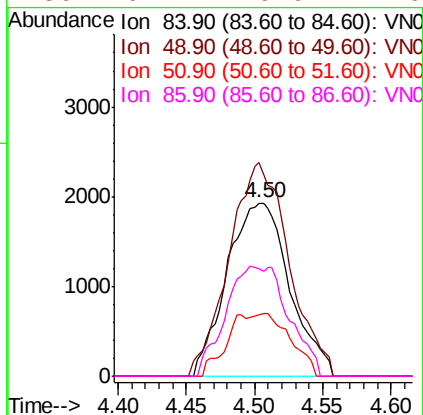
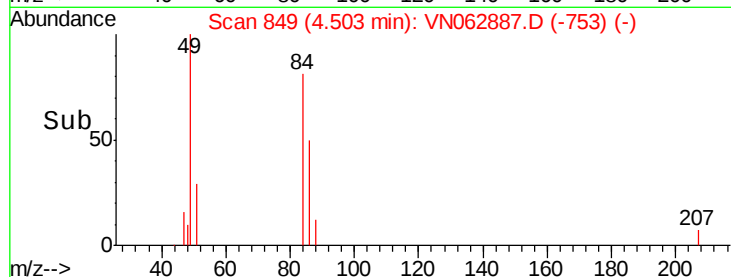
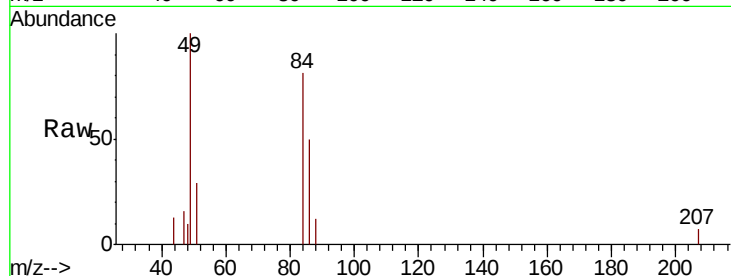




#20
Methvlene Chloride
Concen: 3.866 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.01 min
Lab File: VN062887.D
Acq: 13 Aug 2020 4:20

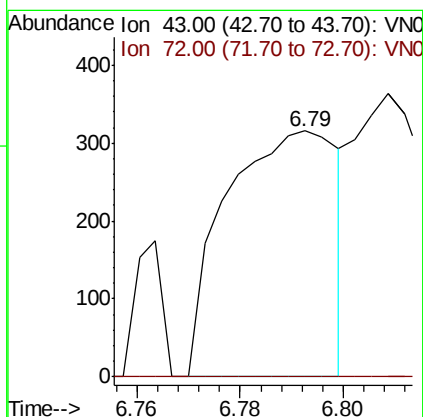
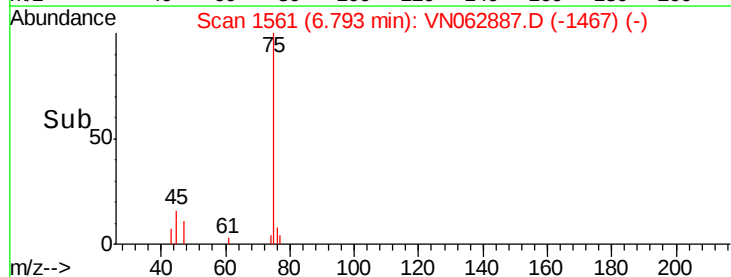
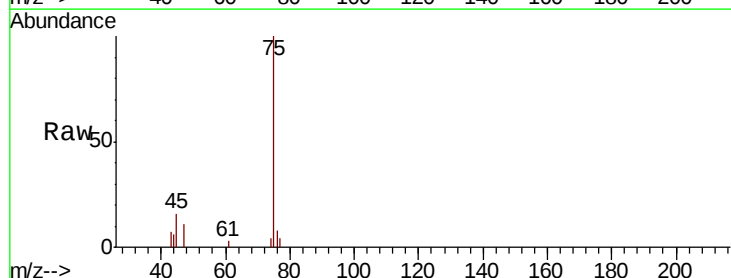
Instrument :
MSVOA_N
ClientSampleId :
PB130908ZHE#17

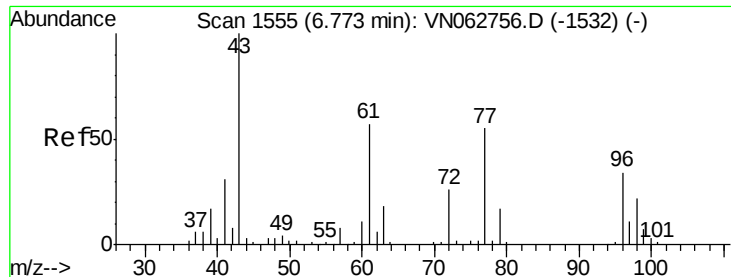
Tot Ion: 84 Resp: 6153
Ion Ratio Lower Upper
84 100
49 123.5 103.4 155.2
51 35.5 29.3 43.9
86 62.4 49.9 74.9



#25
2-Butanone
Concen: 0.453 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.00 min
Lab File: VN062887.D
Acq: 13 Aug 2020 4:20

Tgt Ion: 43 Resp: 472
Ion Ratio Lower Upper
43 100
72 0.0 21.1 31.7#

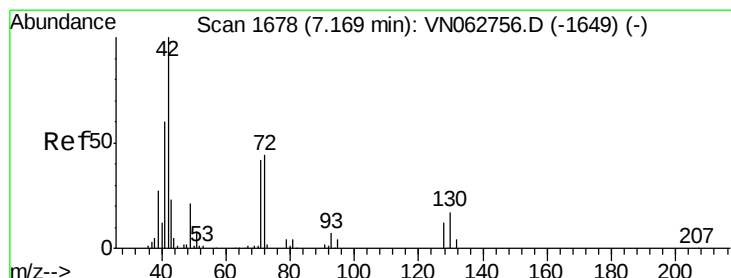
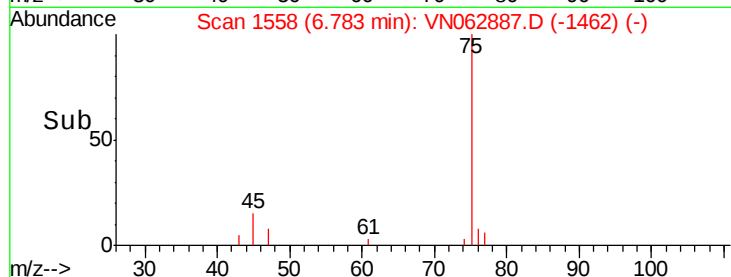
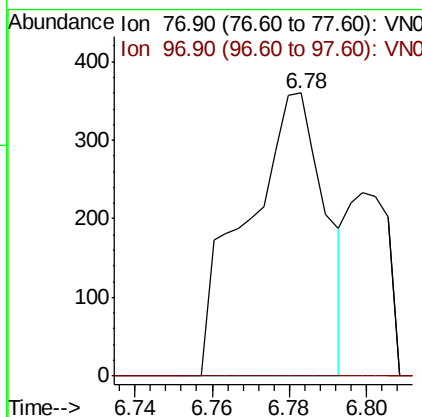
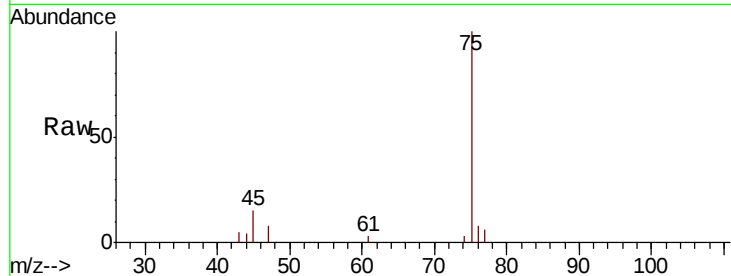




#26
 2,2-Dichloropropane
 Concen: 0.205 ug/l
 RT: 6.78 min Scan# 1558
 Delta R.T. 0.01 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

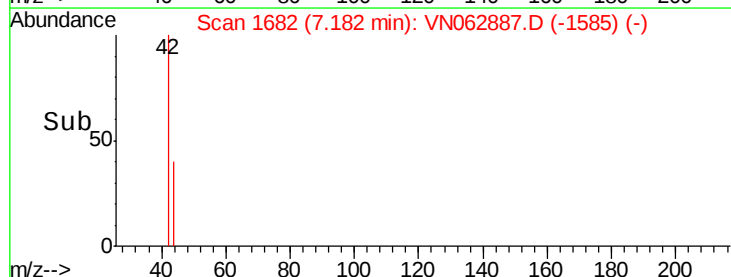
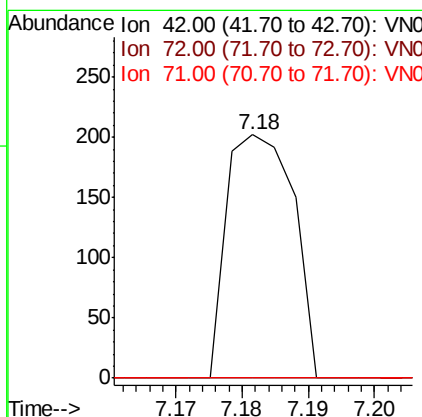
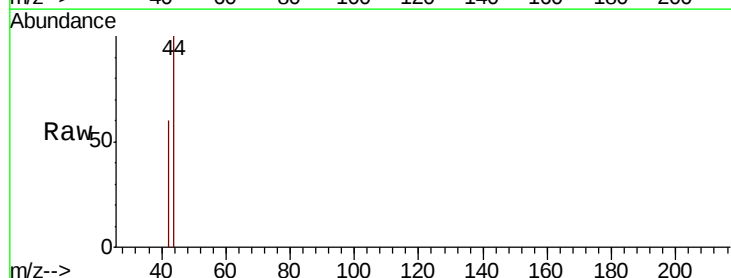
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130908ZHE#17

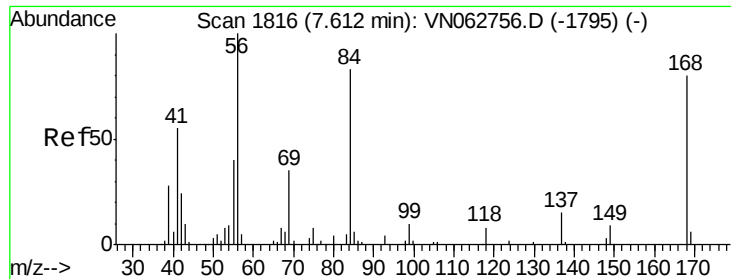
Tot Ion: 77 Resp: 509
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.5 31.6#



#29
 Tetrahydrofuran
 Concen: 0.208 ug/l
 RT: 7.18 min Scan# 1682
 Delta R.T. 0.01 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

Tgt Ion: 42 Resp: 141
 Ion Ratio Lower Upper
 42 100
 72 0.0 35.0 52.4#
 71 0.0 33.2 49.8#

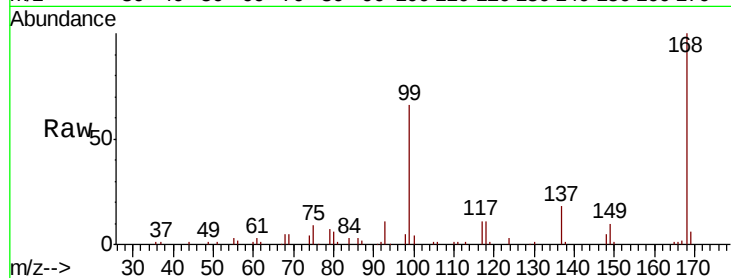




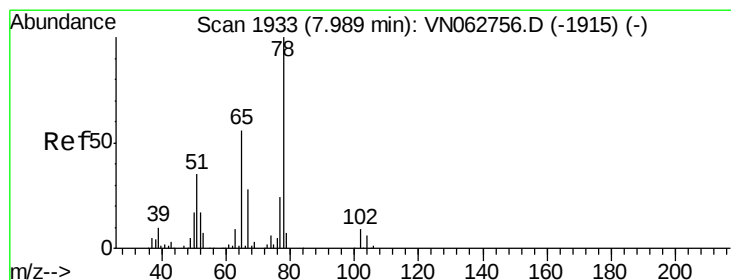
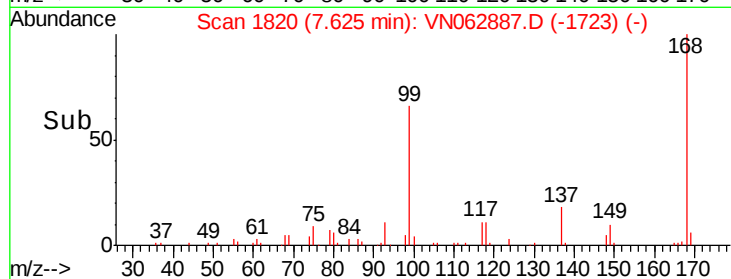
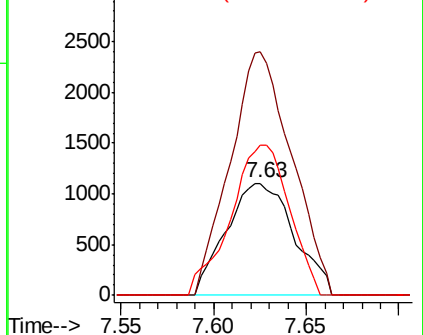
#31
Cyclohexane
Concen: 1.132 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062887.D
Acq: 13 Aug 2020 4:20

Instrument :
MSVOA_N
ClientSampleId :
PB130908ZHE#17

Tot Ion: 56 Resp: 2796
Ion Ratio Lower Upper
56 100
69 216.7 28.1 42.1#
84 133.8 66.8 100.2#

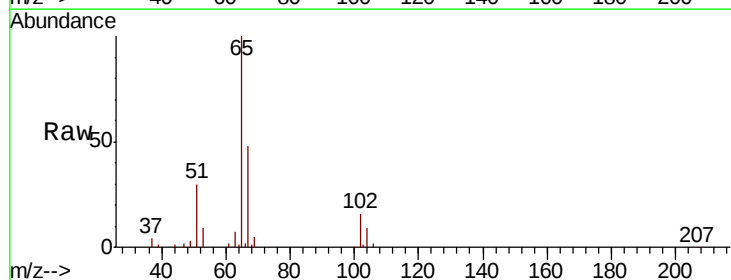


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

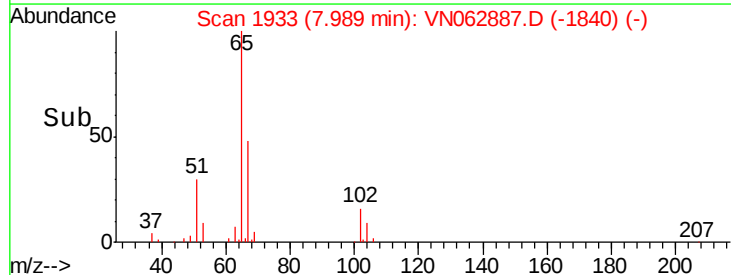
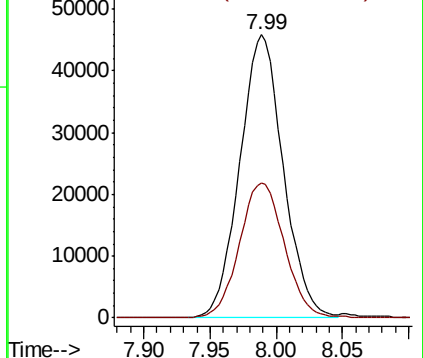


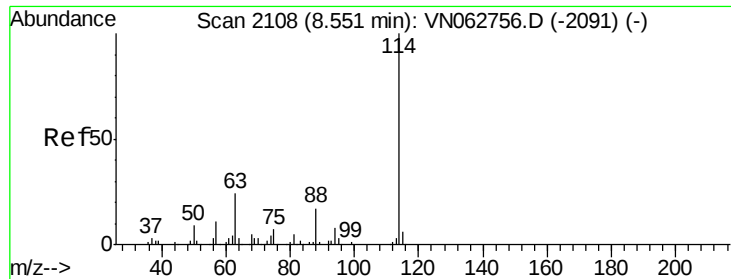
#33
1,2-Dichloroethane-d4
Concen: 51.235 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN062887.D
Acq: 13 Aug 2020 4:20

Tgt Ion: 65 Resp: 104383
Ion Ratio Lower Upper
65 100
67 49.3 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

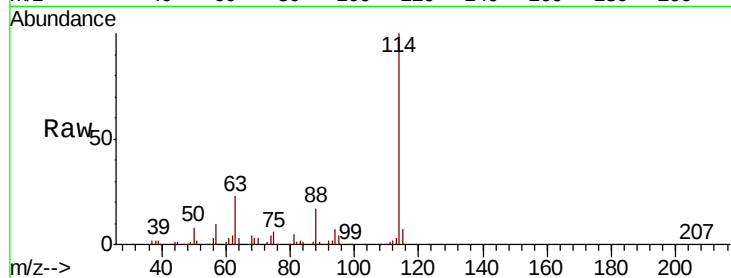




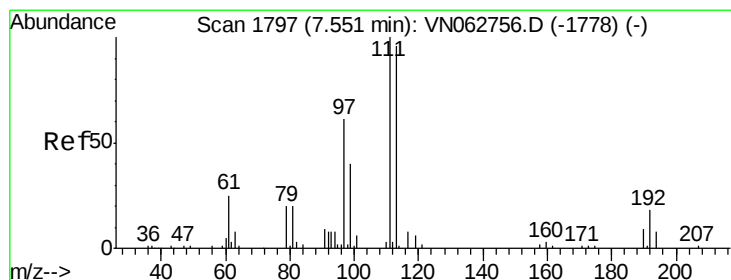
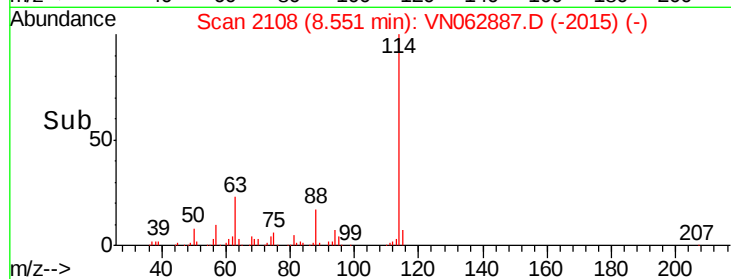
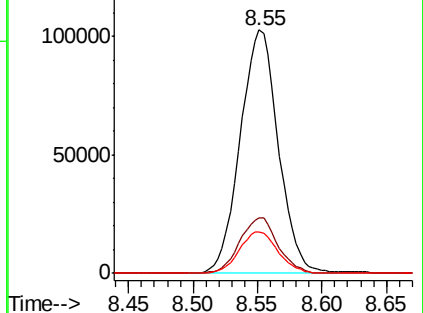
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130908ZHE#17

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	47.6
88	17.0	0.0	34.4

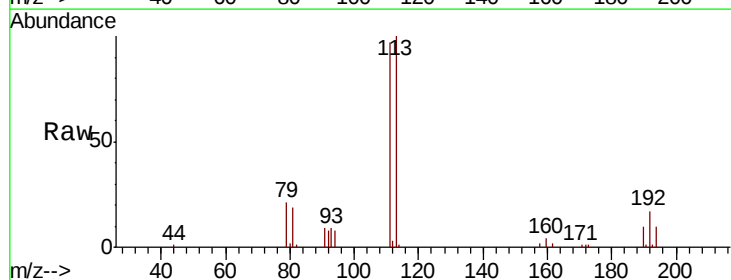


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

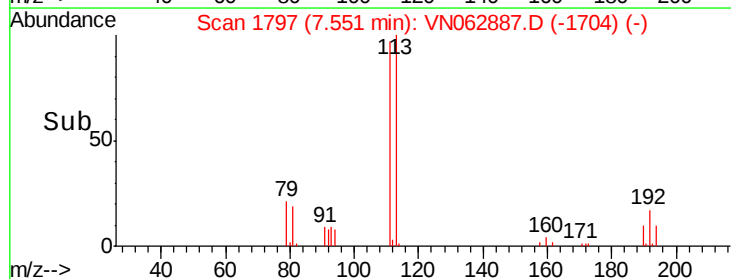
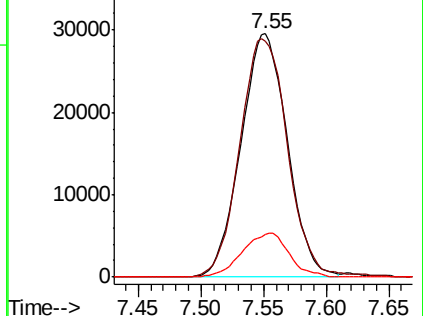


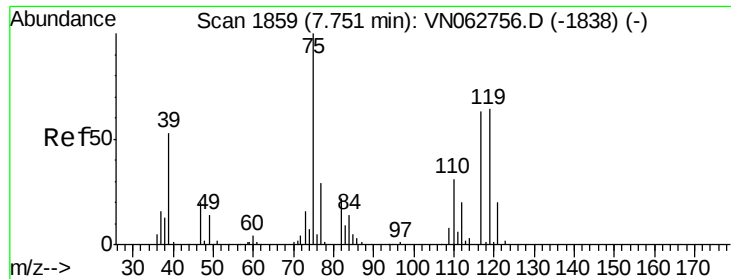
#35
 Dibromofluoromethane
 Concen: 52.509 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.6	81.8	122.6
192	18.1	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

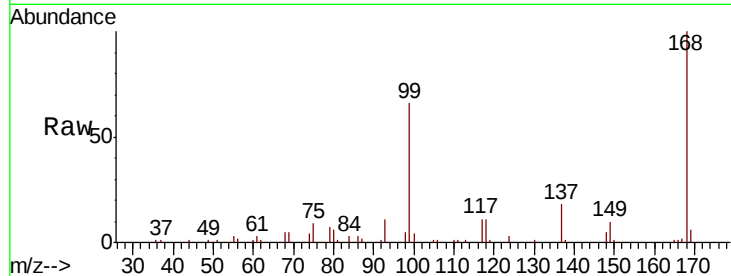




#36
 1,1-Dichloropropene
 Concen: 5.248 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130908ZHE#17

Tot Ion	75	Resp	10817
Ion Ratio	Lower	Upper	
75	100		
110	7.0	15.6	46.7#
77	0.0	24.1	36.1#

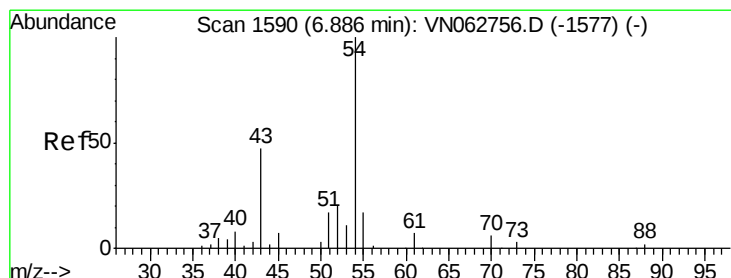
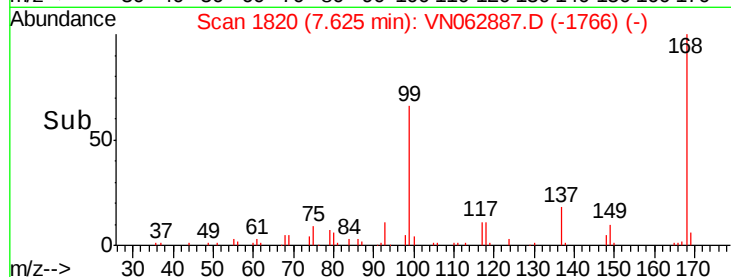
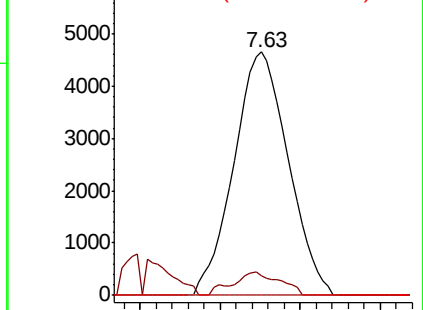


Abundance

Ion 74.90 (74.60 to 75.60): VN0

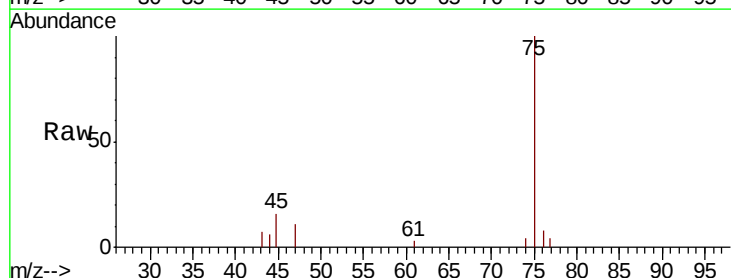
Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37
 Ethyl Acetate
 Concen: 0.219 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.09 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

Tgt Ion	43	Resp	472
Ion Ratio	Lower	Upper	
43	100		
61	39.2	12.1	18.1#
70	0.0	8.3	12.5#

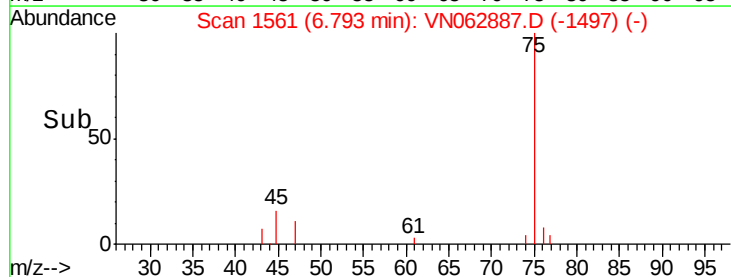
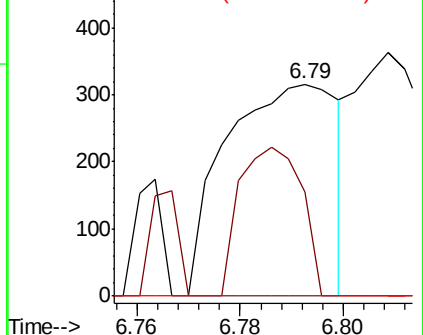


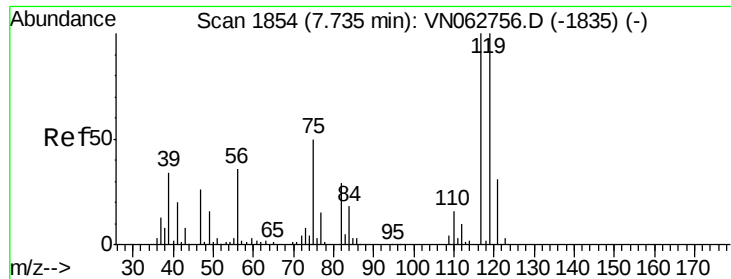
Abundance

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: 5.365 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN062887.D

Acq: 13 Aug 2020 4:20

Instrument :

MSVOA_N

ClientSampleId :

PB130908ZHE#17

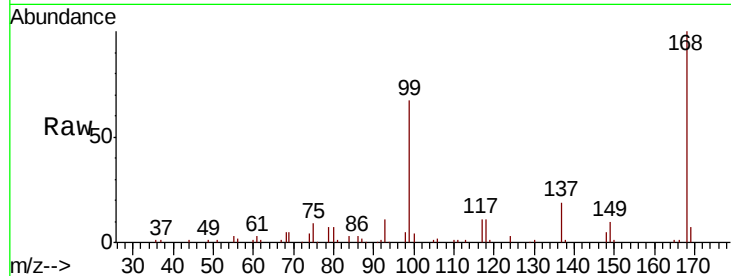
Tot Ion:117 Resp: 13077

Ion Ratio Lower Upper

117 100

119 4.7 79.4 119.2#

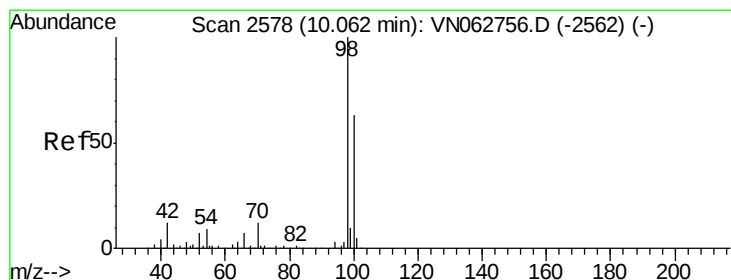
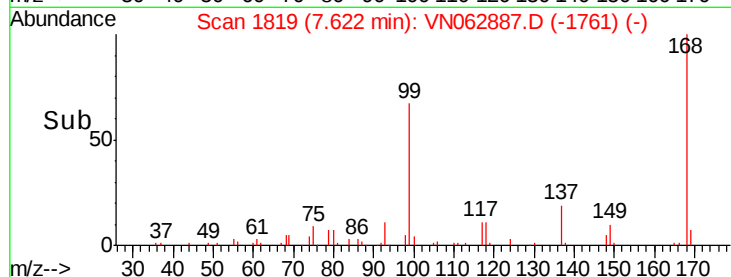
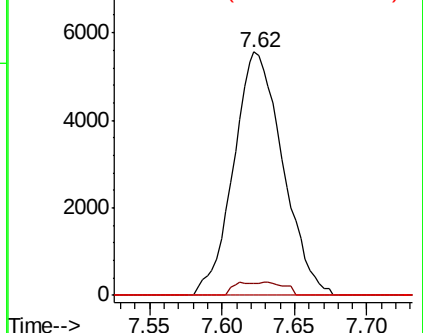
121 0.0 24.9 37.3#



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: 49.459 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN062887.D

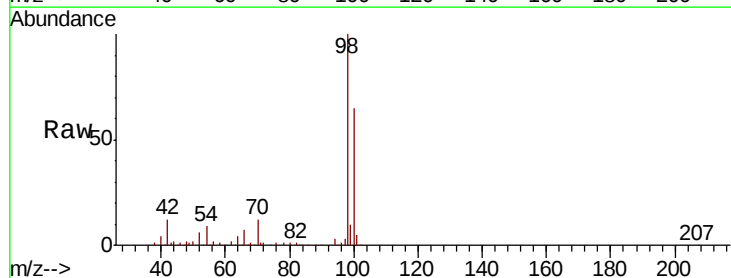
Acq: 13 Aug 2020 4:20

Tgt Ion: 98 Resp: 279579

Ion Ratio Lower Upper

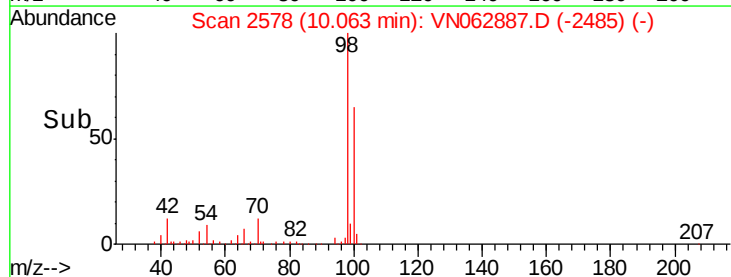
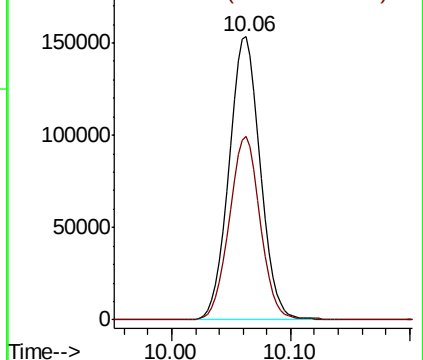
98 100

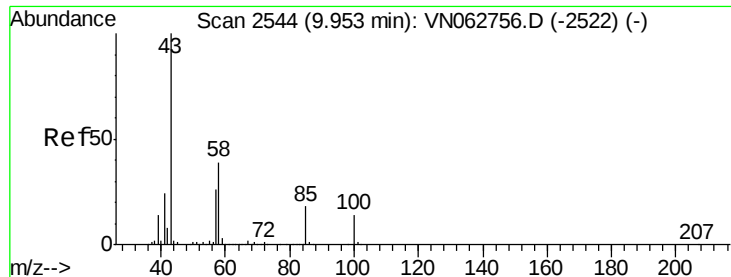
100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

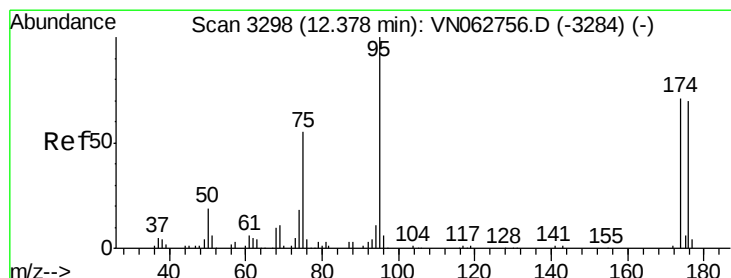
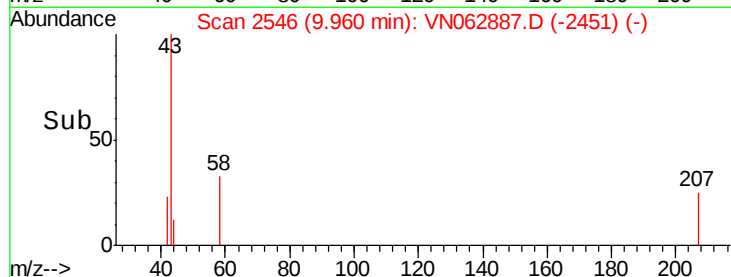
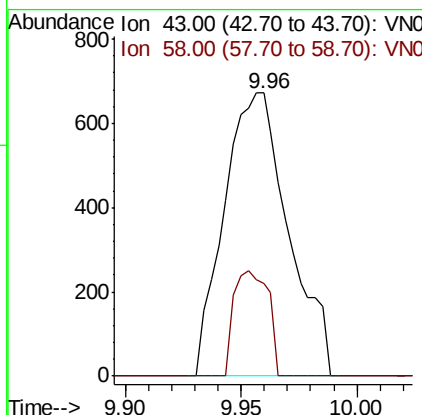
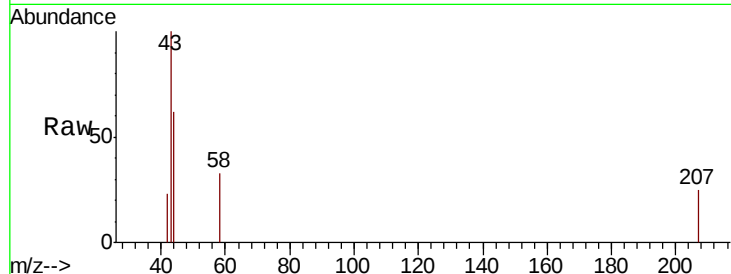




#51
 4-Methyl-2-Pentanone
 Concen: 0.558 ug/l
 RT: 9.96 min Scan# 2546
 Delta R.T. 0.01 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

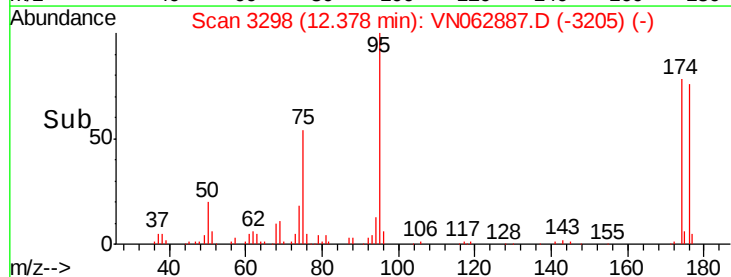
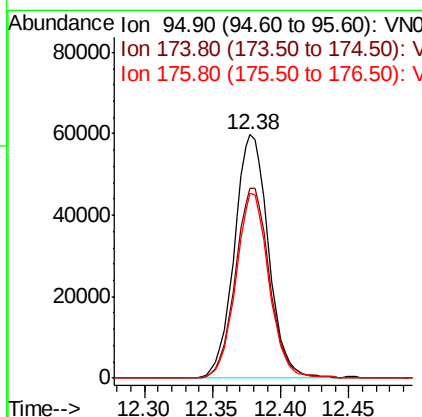
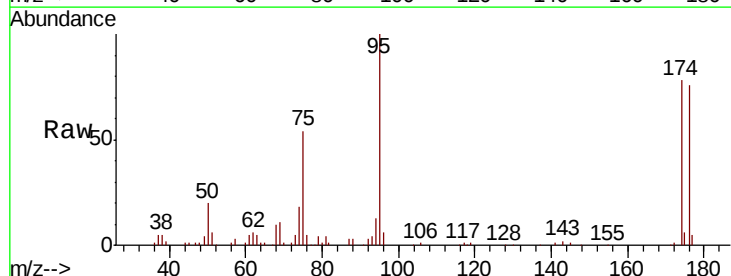
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130908ZHE#17

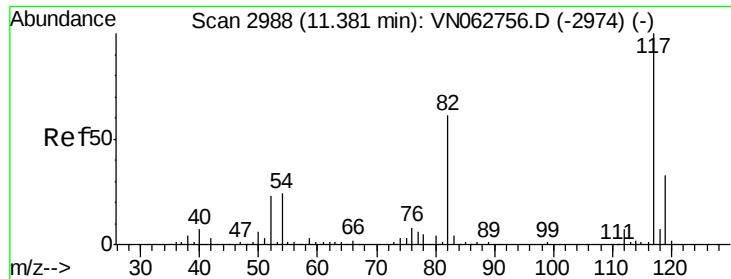
Tot Ion: 43 Resp: 1297
 Ion Ratio Lower Upper
 43 100
 58 19.7 31.1 46.7#



#62
 4-Bromofluorobenzene
 Concen: 48.386 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

Tgt Ion: 95 Resp: 103360
 Ion Ratio Lower Upper
 95 100
 174 78.3 0.0 144.8
 176 73.7 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: VN062887.D

Acq: 13 Aug 2020 4:20

Instrument :

MSVOA_N

ClientSampleId :

PB130908ZHE#17

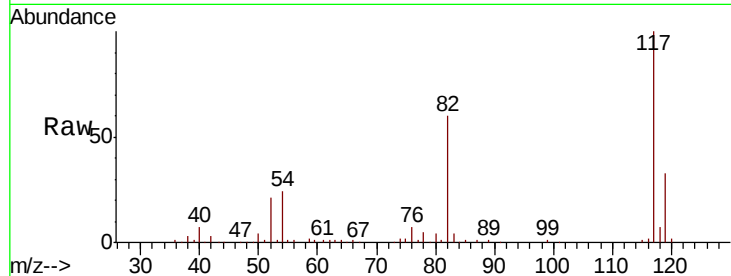
Tot Ion:117 Resp: 227724

Ion Ratio Lower Upper

117 100

82 60.3 49.0 73.4

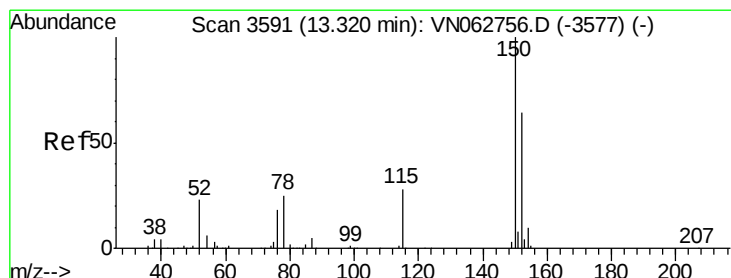
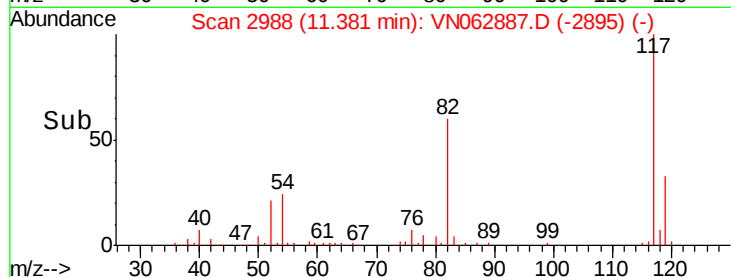
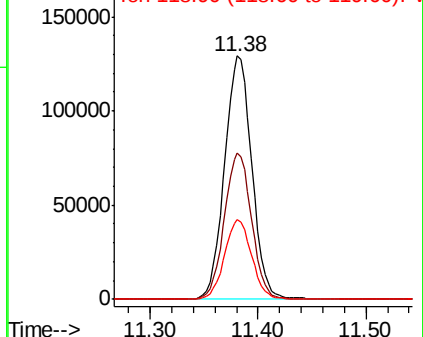
119 32.8 26.2 39.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062887.D

Acq: 13 Aug 2020 4:20

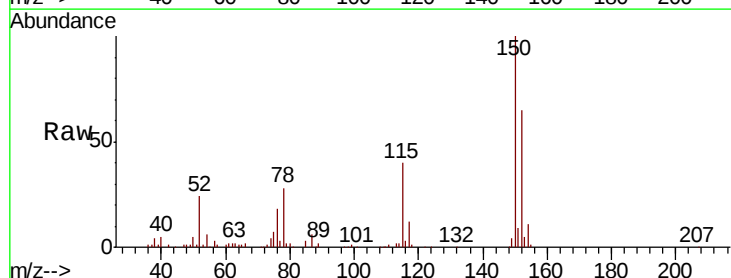
Tgt Ion:152 Resp: 82480

Ion Ratio Lower Upper

152 100

115 64.4 31.6 94.8

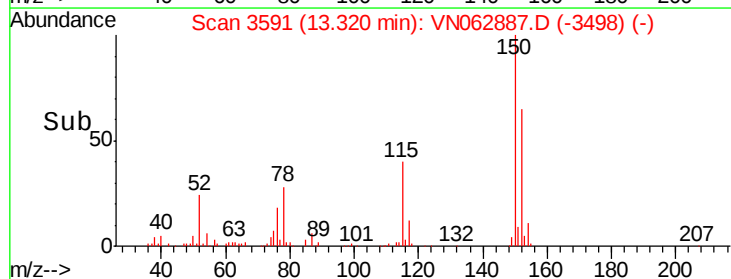
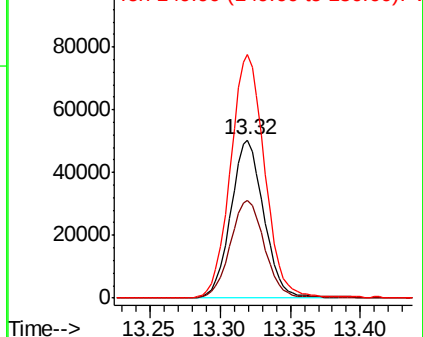
150 159.9 0.0 349.2

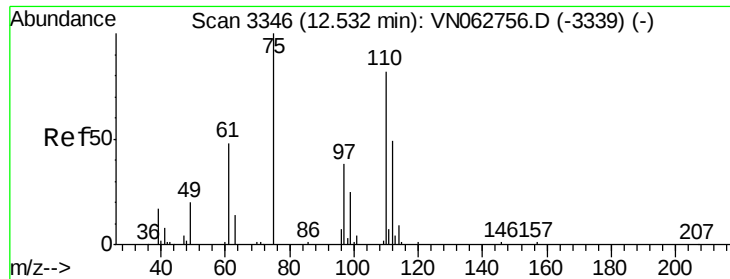


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

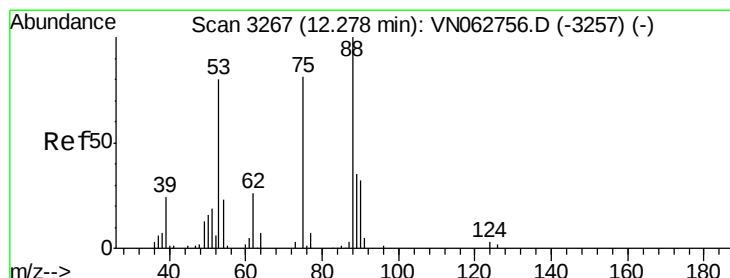
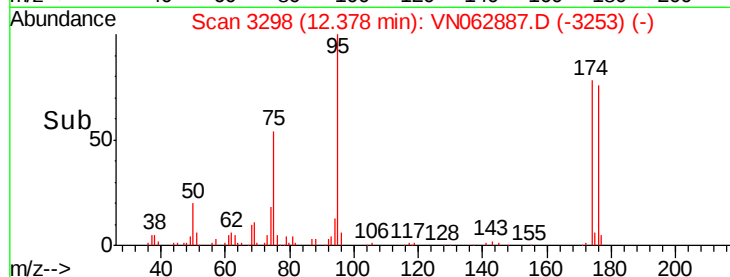
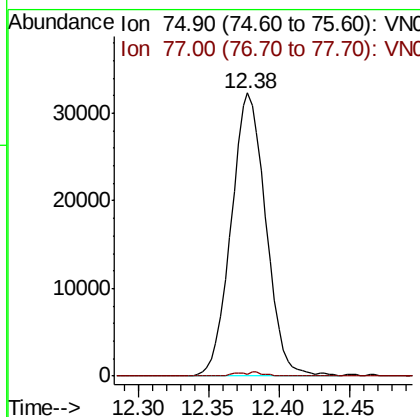
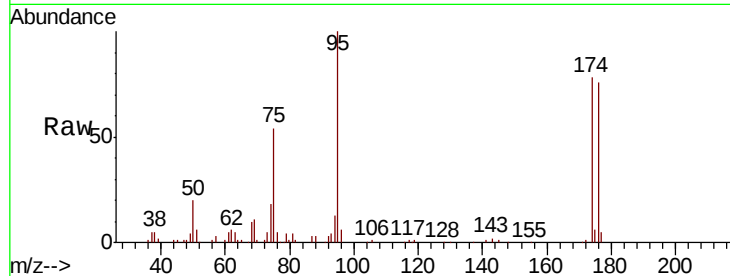




#76
 1,2,3-Trichloropropane
 Concen: 24.978 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130908ZHE#17

Tot Ion: 75 Resp: 55561
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.251 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062887.D
 Acq: 13 Aug 2020 4:20

Tgt Ion: 75 Resp: 55561
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.1 118.7#
 89 0.0 36.2 54.2#

