

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071619\
 Data File : VN056772.D
 Acq On : 16 Jul 2019 16:32
 Operator : JC/SP
 Sample : PB121398ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121398ZHE#09

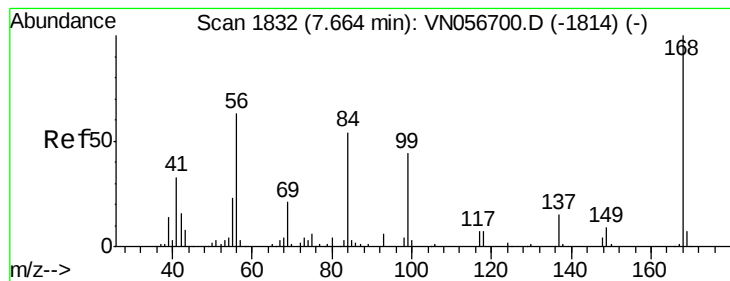
Quant Time: Jul 17 01:10:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	259789	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	463902	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	494579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	178822	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	152524	53.08	ug/l	0.00
Spiked Amount			Recovery	=	106.16%	
35) Dibromofluoromethane	7.59	113	137941	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
50) Toluene-d8	10.09	98	592961	53.18	ug/l	0.00
Spiked Amount			Recovery	=	106.36%	
62) 4-Bromofluorobenzene	12.40	95	213014	56.65	ug/l	0.00
Spiked Amount			Recovery	=	113.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	130	0.272	ug/l #	73
16) Acetone	3.82	43	8560	6.464	ug/l	89
18) Methyl Acetate	4.33	43	6142	1.113	ug/l #	67
20) Methylene Chloride	4.56	84	2814	0.972	ug/l #	65
25) 2-Butanone	6.85	43	1938	1.001	ug/l	96
29) Tetrahydrofuran	7.23	42	606	0.480	ug/l #	42
31) Cyclohexane	7.67	56	4031	0.877	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	16465	3.836	ug/l #	49
38) Carbon Tetrachloride	7.66	117	21580	5.360	ug/l #	17
43) Isopropyl Acetate	8.17	43	16356	2.459	ug/l	94
45) 1,2-Dichloropropane	9.27	63	1588	0.454	ug/l #	45
48) Methyl methacrylate	9.18	41	8650	2.689	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	3349	0.777	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	47485	9.530	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	10096	1.887	ug/l #	42
59) 2-Hexanone	10.76	43	138905	44.936	ug/l #	51
68) m/p-Xylenes	11.63	106	3749	0.564	ug/l	98
71) Bromoform	12.40	173	1708	0.603	ug/l #	1
74) N-amyl acetate	11.88	43	11563	2.153	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	100489	25.693	ug/l #	100
79) 2-Chlorotoluene	12.77	91	66	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	100489	79.349	ug/l #	13
95) Naphthalene	15.14	128	108	4.536	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056772.D

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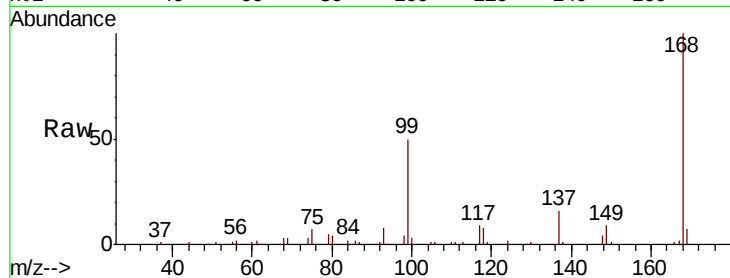
PB121398ZHE#09

Tot Ion:168 Resp: 259789

Ion Ratio Lower Upper

168 100

99 50.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

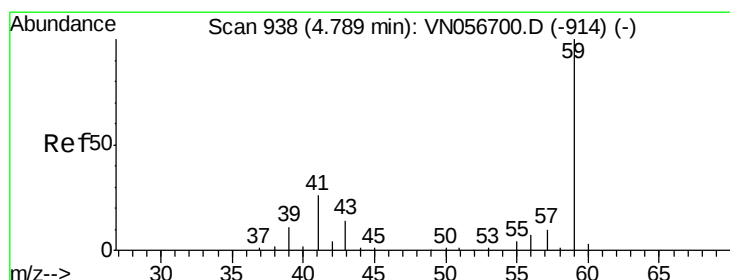
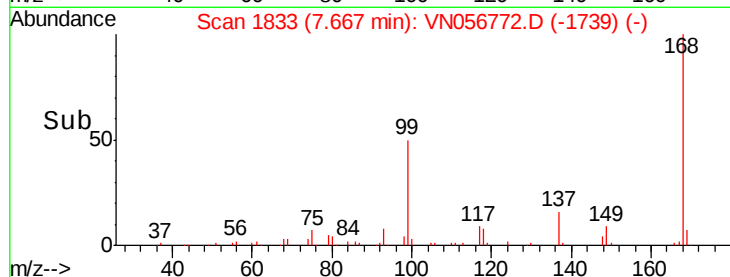
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.272 ug/l

RT: 4.80 min Scan# 942

Delta R.T. 0.01 min

Lab File: VN056772.D

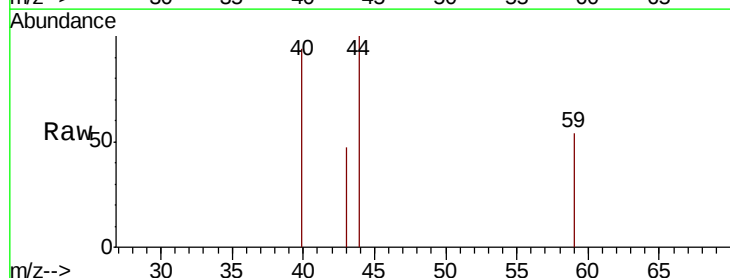
Acq: 16 Jul 2019 16:32

Tgt Ion: 59 Resp: 130

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.80

200

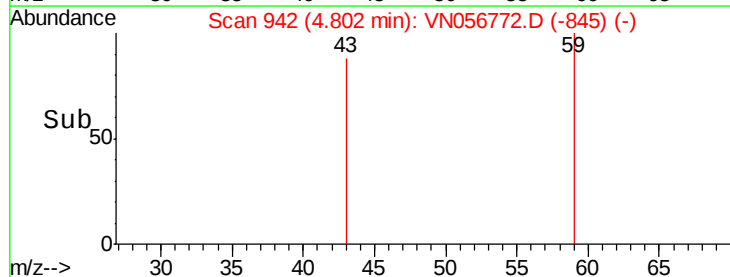
150

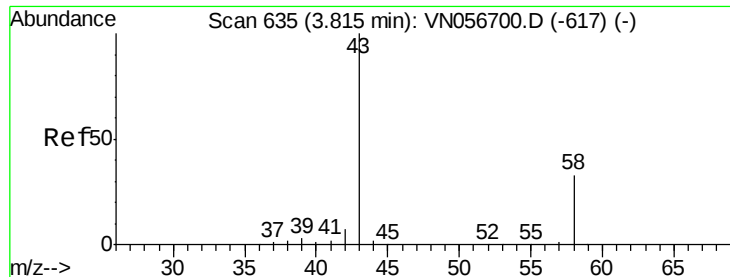
100

50

0

Time-->





#16

Acetone

Concen: 6.464 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

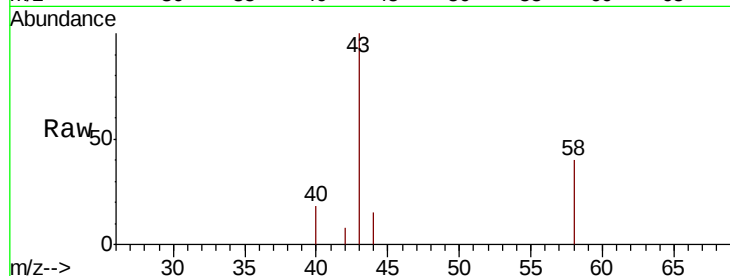
PB121398ZHE#09

Tot Ion: 43 Resp: 8560

Ion Ratio Lower Upper

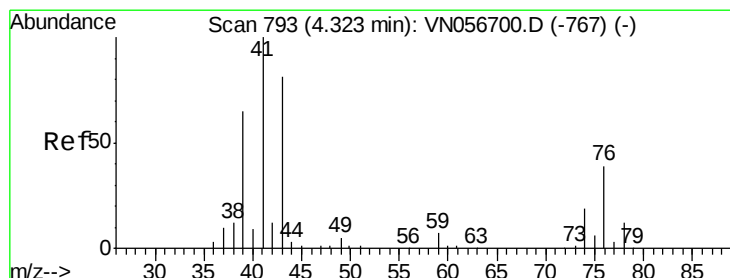
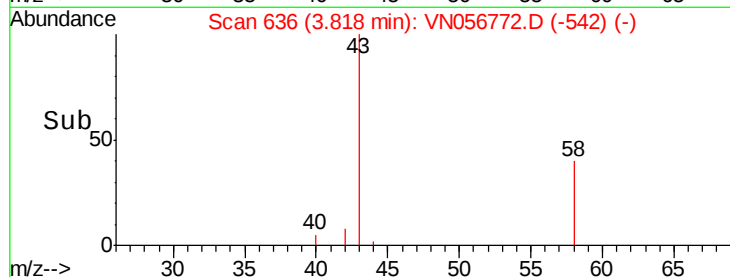
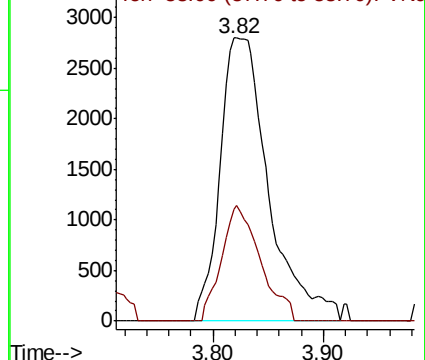
43 100

58 39.5 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.113 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN056772.D

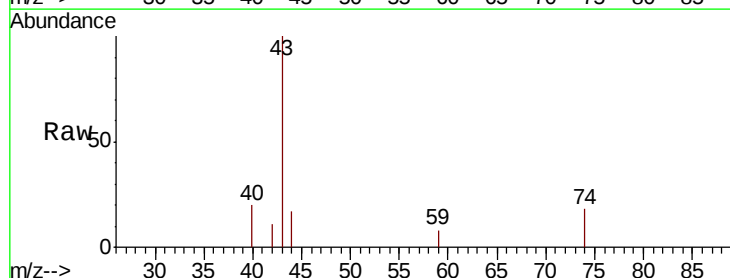
Acq: 16 Jul 2019 16:32

Tgt Ion: 43 Resp: 6142

Ion Ratio Lower Upper

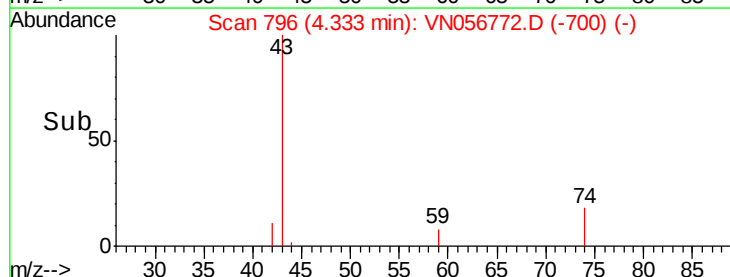
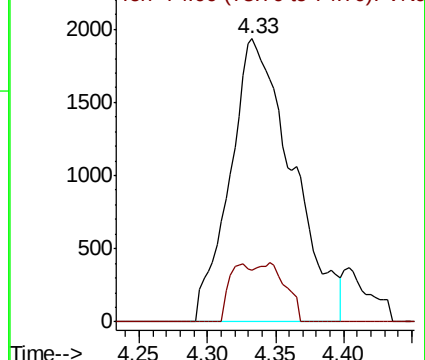
43 100

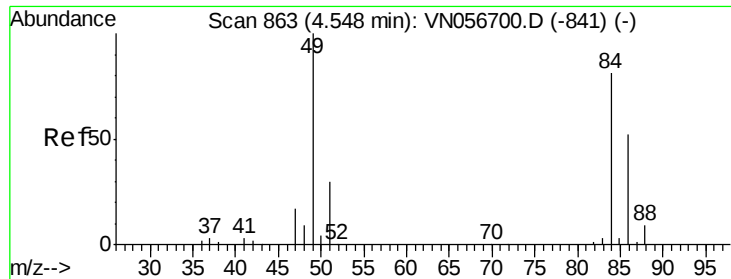
74 7.6 18.9 28.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

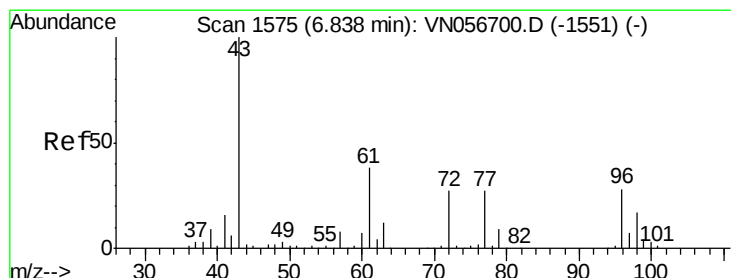
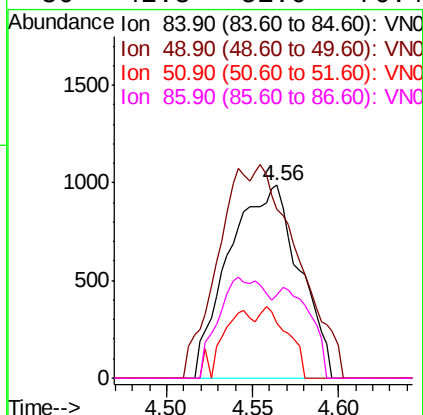
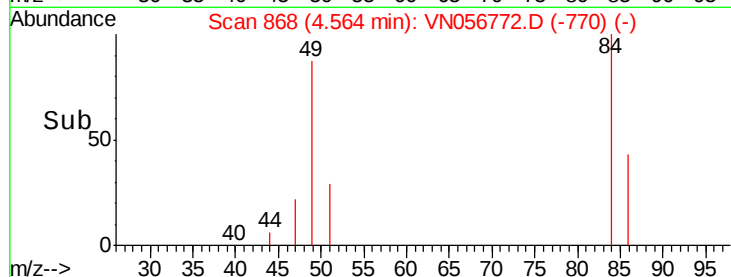
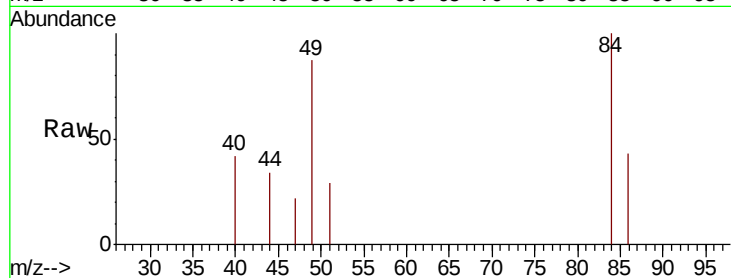




#20
Methvlene Chloride
Concen: 0.972 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.02 min
Lab File: VN056772.D
Acq: 16 Jul 2019 16:32

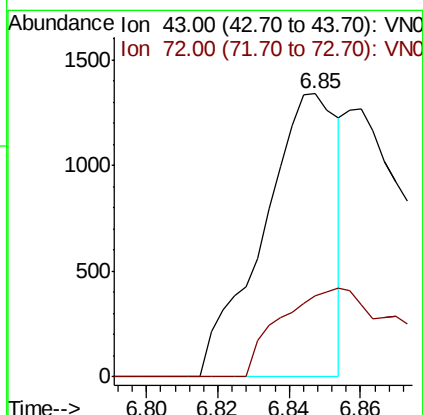
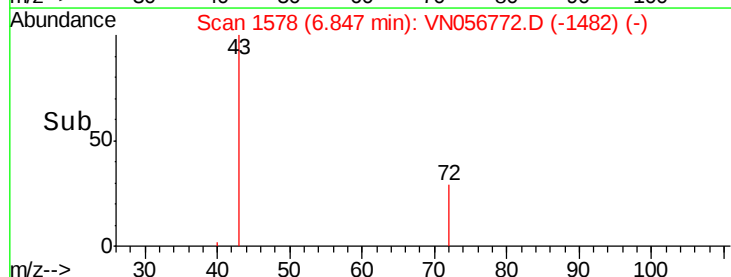
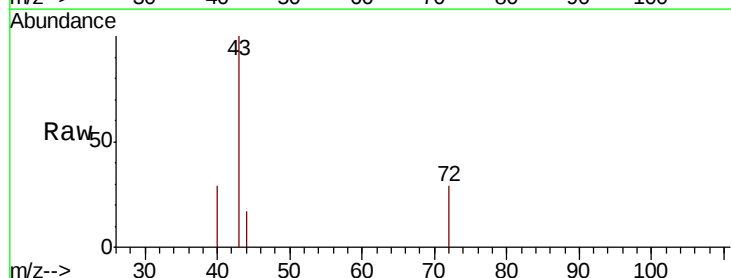
Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#09

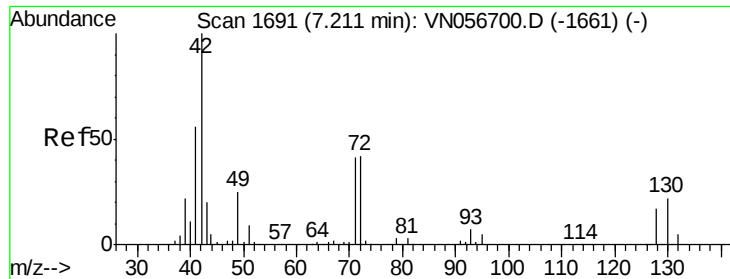
Tot Ion: 84 Resp: 2814
Ion Ratio Lower Upper
84 100
49 70.9 98.2 147.4#
51 28.7 29.6 44.4#
86 42.8 51.0 76.4#



#25
2-Butanone
Concen: 1.001 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN056772.D
Acq: 16 Jul 2019 16:32

Tgt Ion: 43 Resp: 1938
Ion Ratio Lower Upper
43 100
72 28.8 21.2 31.8

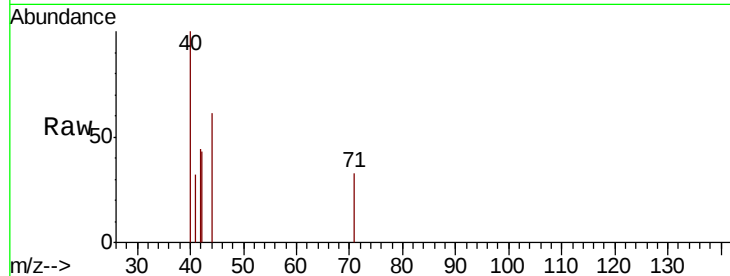




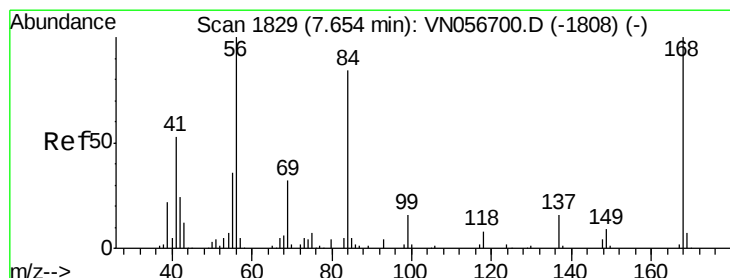
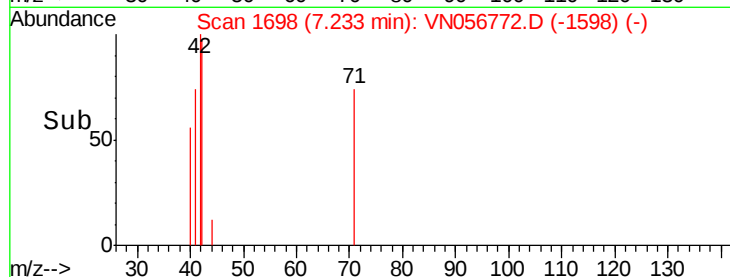
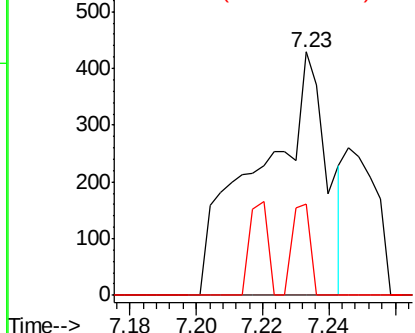
#29
Tetrahydrofuran
Concen: 0.480 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.02 min
Lab File: VN056772.D
Acq: 16 Jul 2019 16:32

Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#09

Tot Ion: 42 Resp: 606
Ion Ratio Lower Upper
42 100
72 0.0 33.5 50.3#
71 10.1 31.8 47.8#

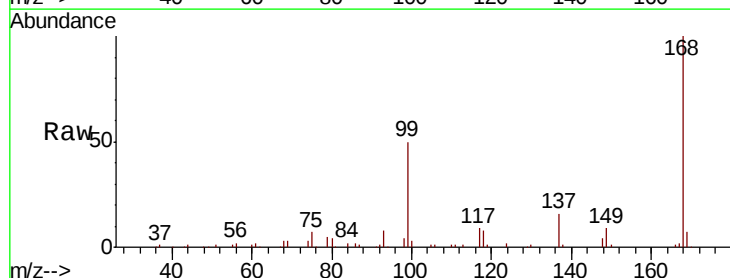


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

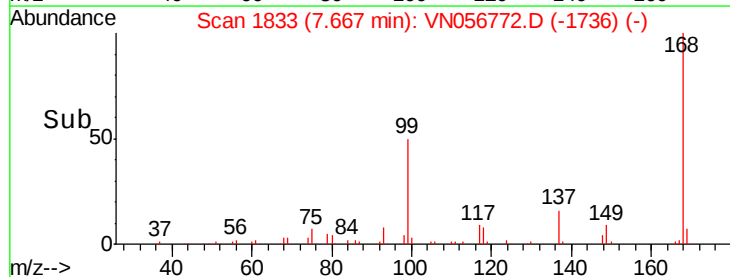
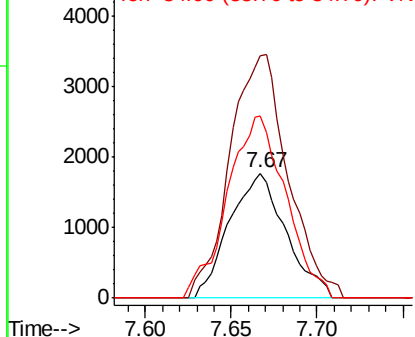


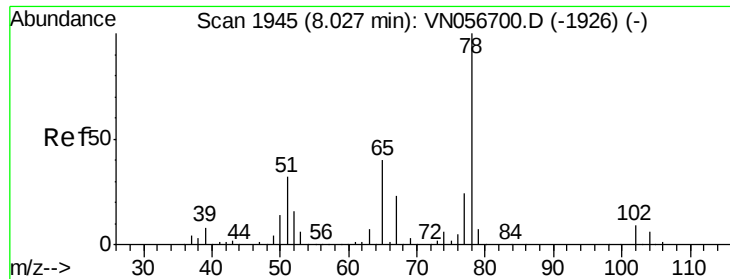
#31
Cyclohexane
Concen: 0.877 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN056772.D
Acq: 16 Jul 2019 16:32

Tgt Ion: 56 Resp: 4031
Ion Ratio Lower Upper
56 100
69 194.0 25.8 38.8#
84 146.5 67.4 101.0#



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

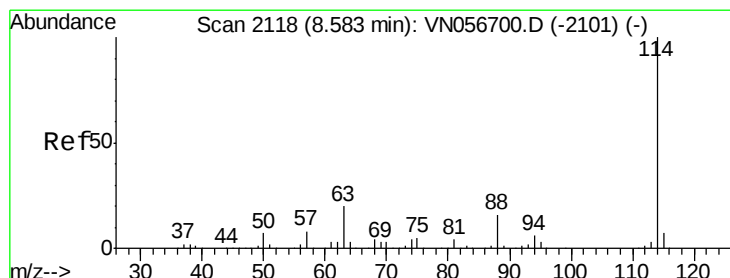
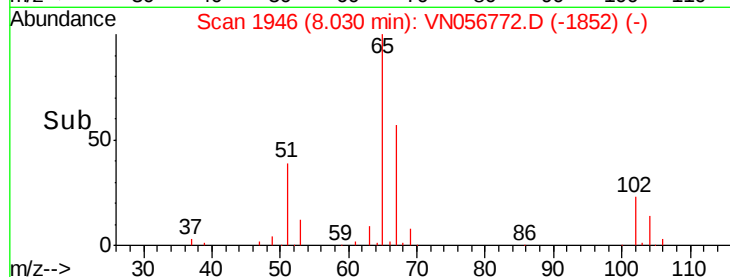
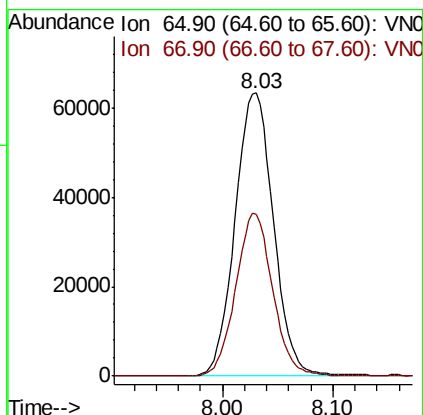
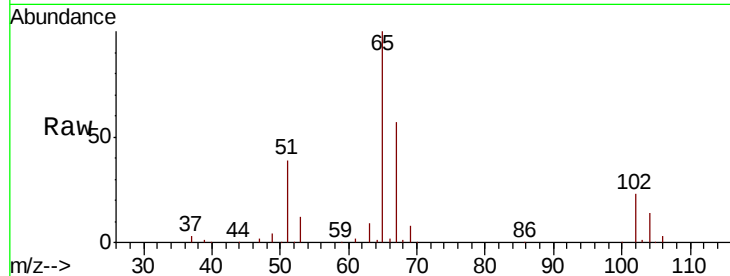




#33
 1,2-Dichloroethane-d4
 Concen: 53.077 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN056772.D
 Acq: 16 Jul 2019 16:32

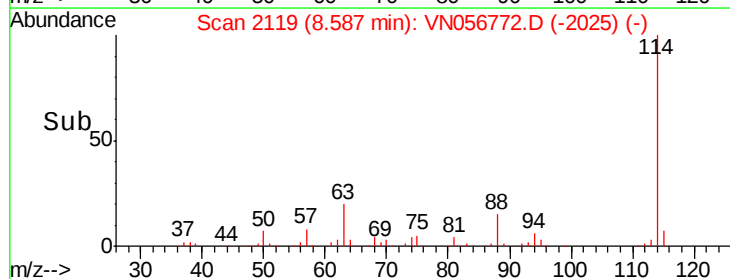
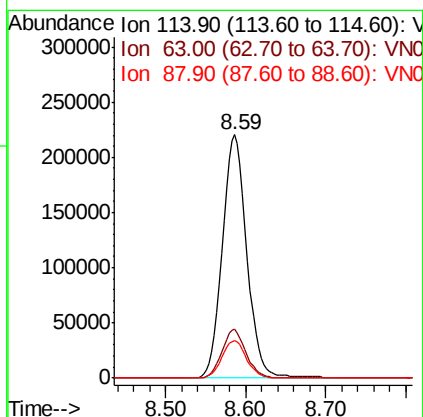
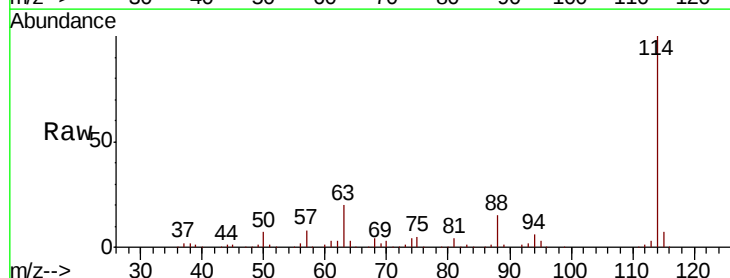
Instrument :
 MSVOA_N
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 PB121398ZHE#09

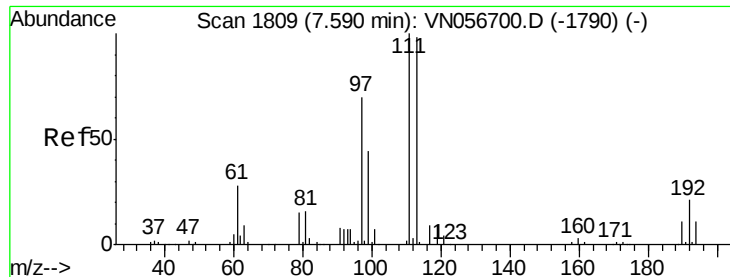
Tot Ion: 65 Resp: 152524
 Ion Ratio Lower Upper
 65 100
 67 55.3 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056772.D
 Acq: 16 Jul 2019 16:32

Tgt Ion: 114 Resp: 463902
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.4
 88 15.3 0.0 31.2

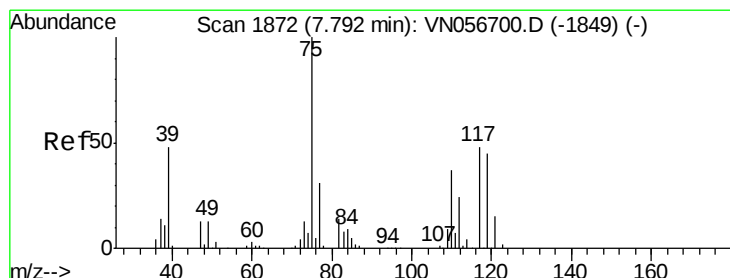
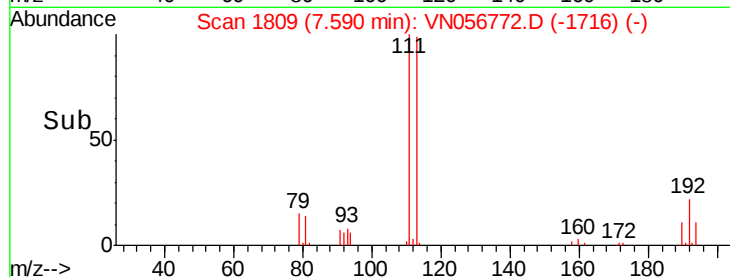
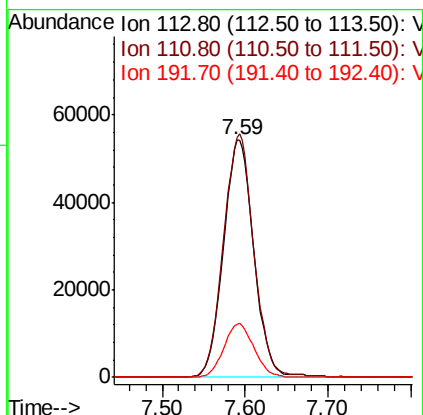
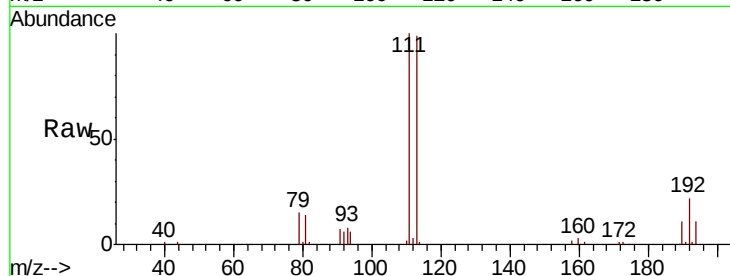




#35
 Dibromofluoromethane
 Concen: 47.781 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056772.D
 Acq: 16 Jul 2019 16:32

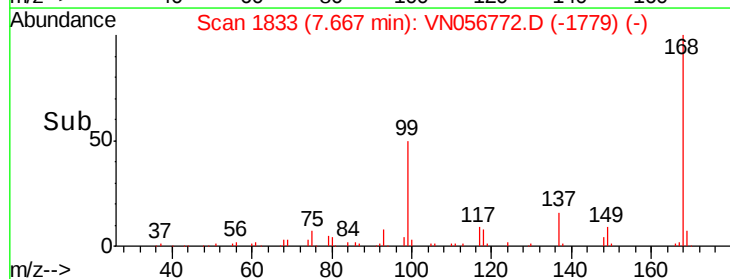
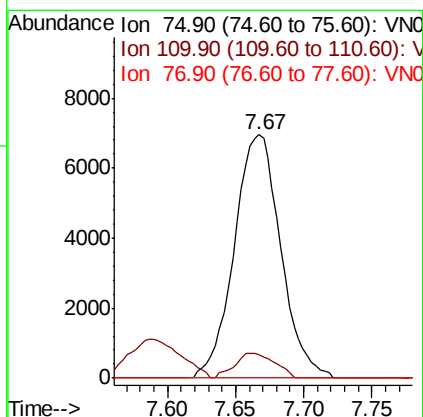
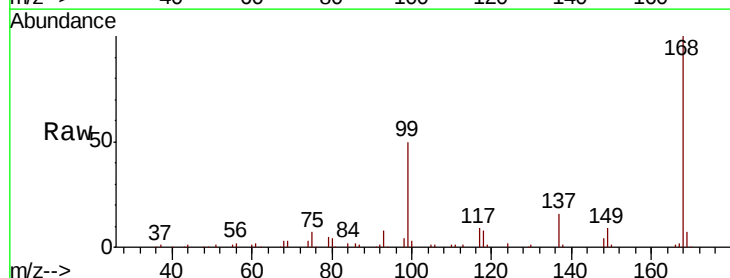
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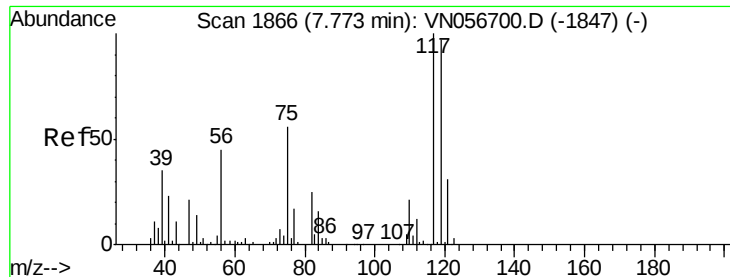
Tot Ion:113 Resp: 137941
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.8 122.6
 192 22.2 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 3.836 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN056772.D
 Acq: 16 Jul 2019 16:32

Tgt Ion: 75 Resp: 16465
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.4 55.4#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.360 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#09

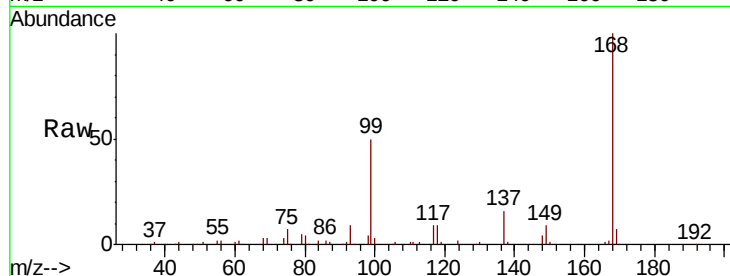
Tot Ion:117 Resp: 21580

Ion Ratio Lower Upper

117 100

119 6.4 77.5 116.3#

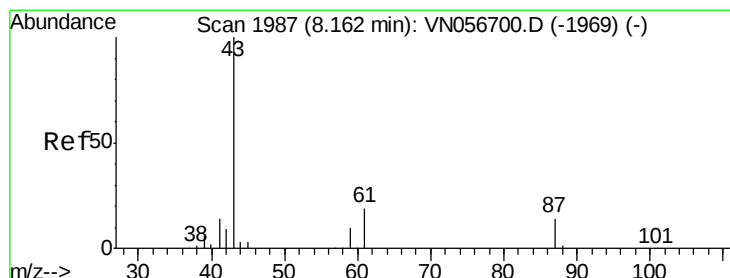
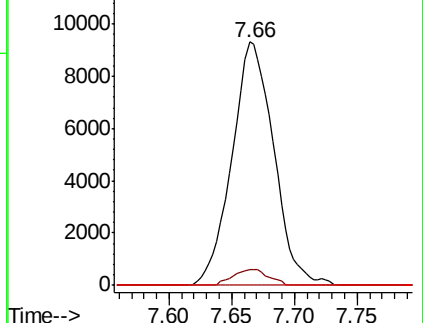
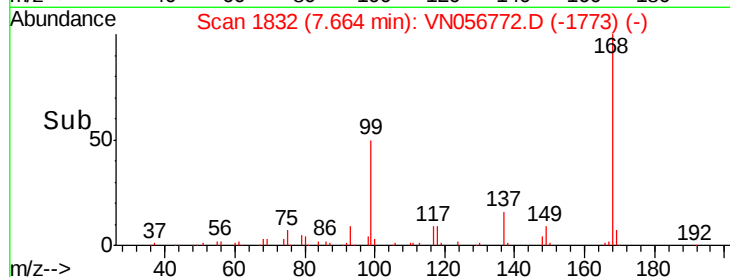
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 2.459 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

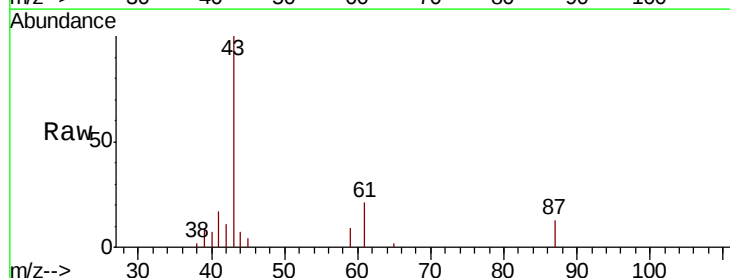
Tgt Ion: 43 Resp: 16356

Ion Ratio Lower Upper

43 100

61 23.5 22.3 33.5

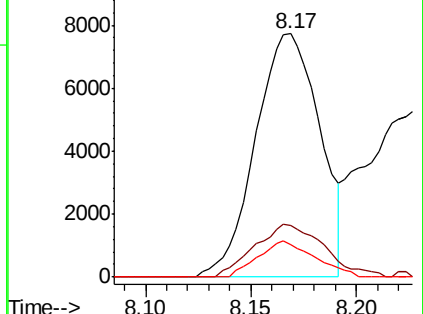
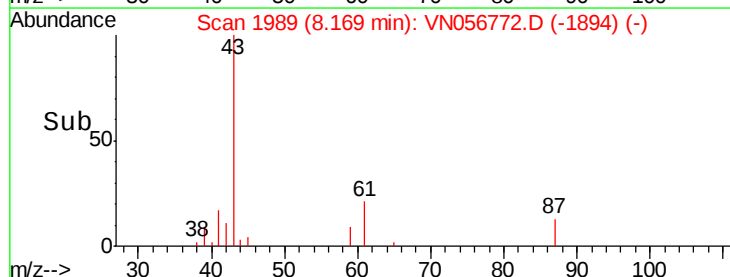
87 13.0 11.1 16.7

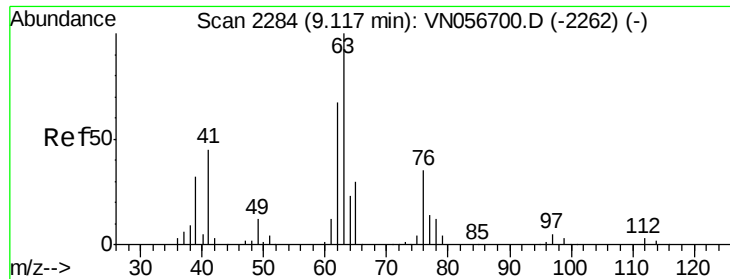


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

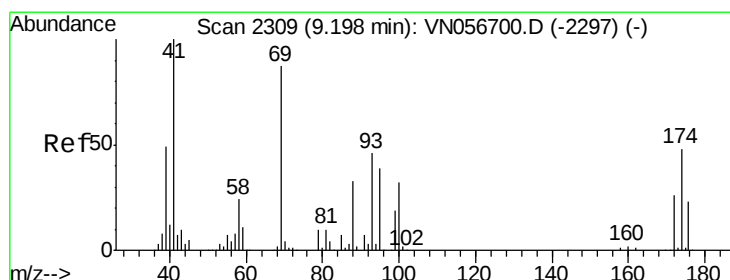
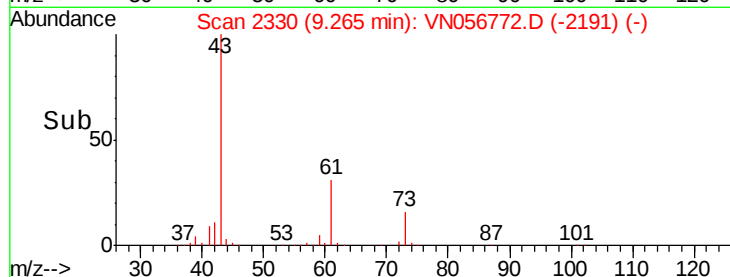
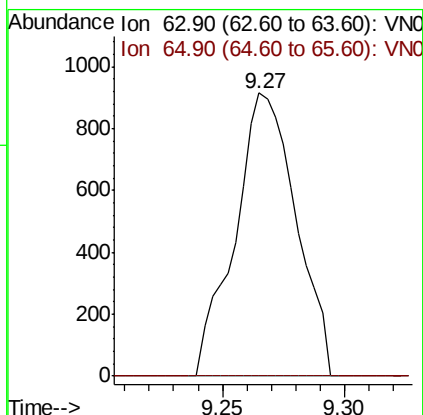
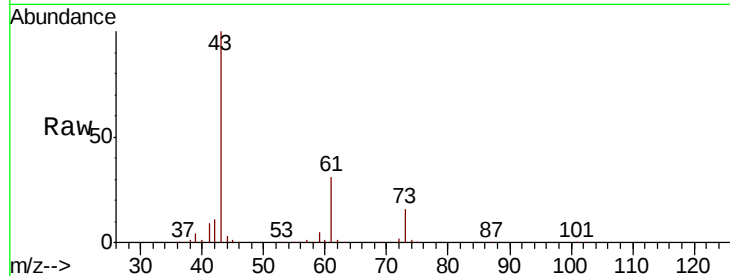




#45
 1,2-Dichloropropane
 Concen: 0.454 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN056772.D
 Acq: 16 Jul 2019 16:32

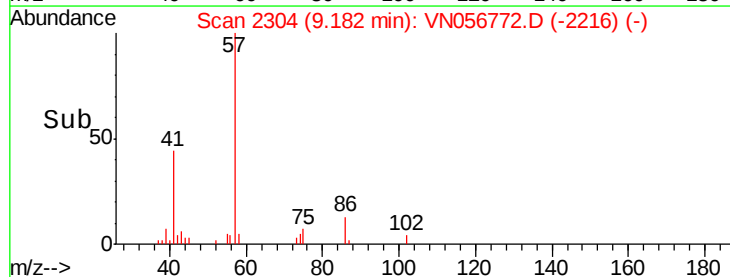
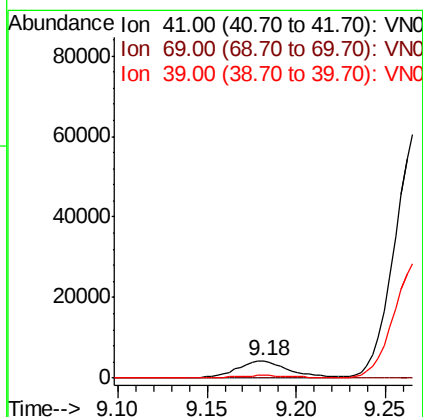
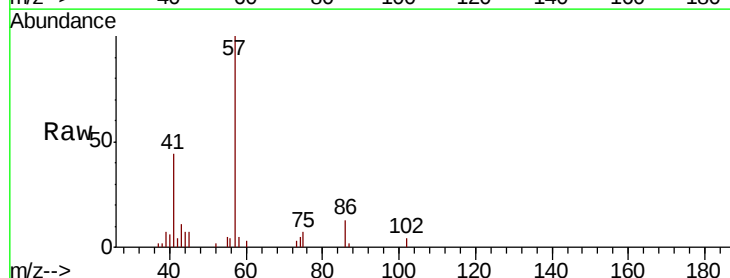
Instrument :
 MSVOA_N
 ClientSampleId :
 PB121398ZHE#09

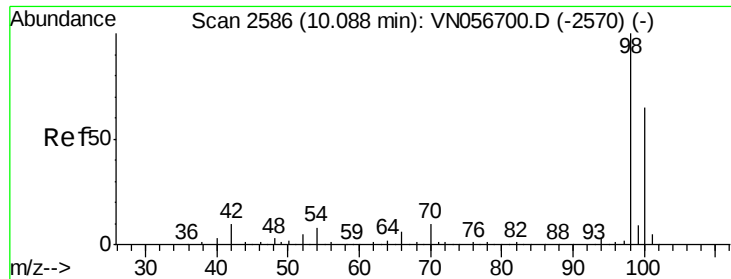
Tot Ion: 63 Resp: 1588
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.0 36.0#



#48
 Methyl methacrylate
 Concen: 2.689 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN056772.D
 Acq: 16 Jul 2019 16:32

Tgt Ion: 41 Resp: 8650
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.4 107.0#
 39 0.0 41.2 61.8#





#50

Toluene-d8

Concen: 53.180 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

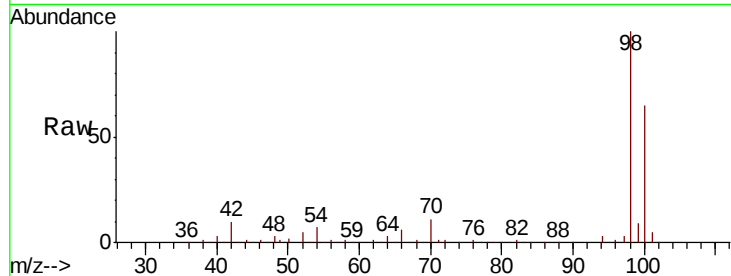
PB121398ZHE#09

Tot Ion: 98 Resp: 592961

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

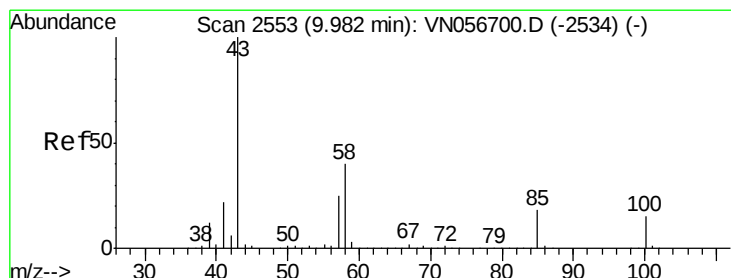
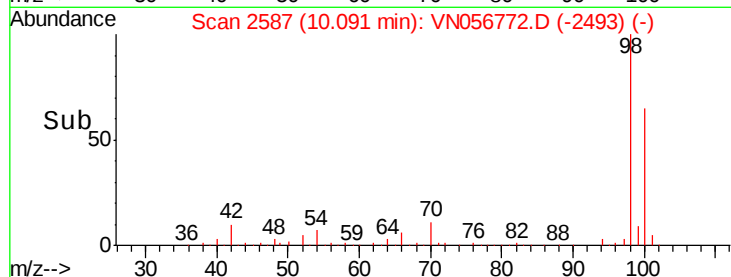
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.777 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN056772.D

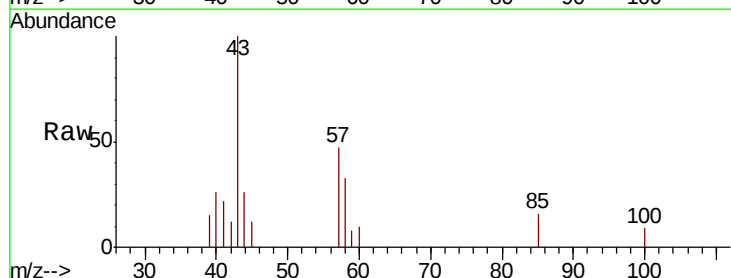
Acq: 16 Jul 2019 16:32

Tgt Ion: 43 Resp: 3349

Ion Ratio Lower Upper

43 100

58 41.4 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

4000

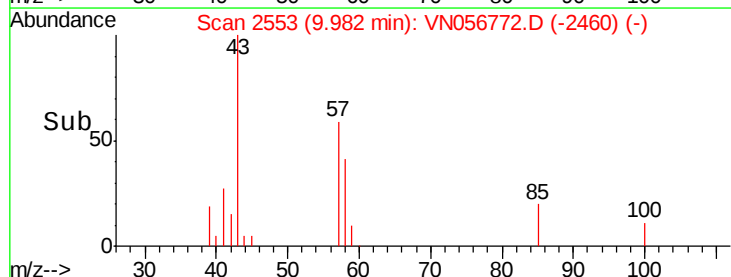
3000

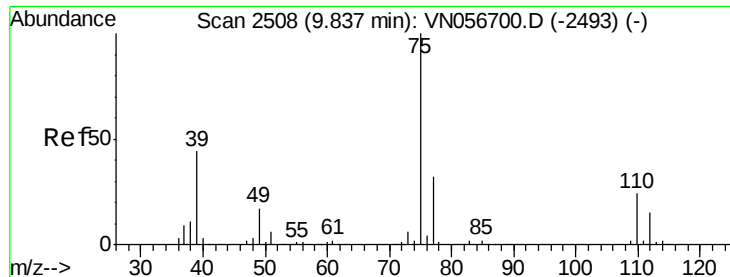
2000

1000

0

Time-->



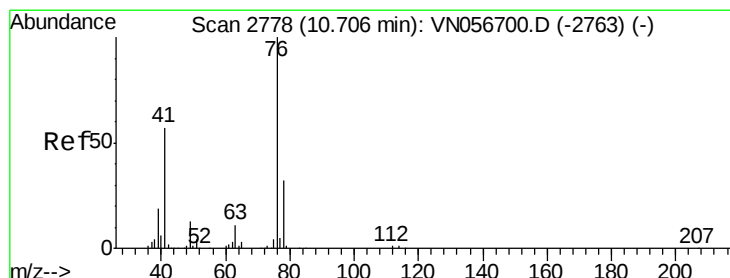
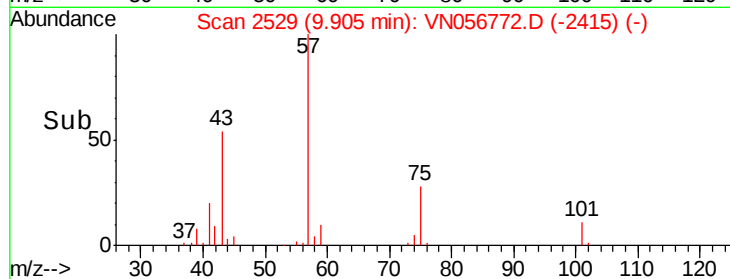
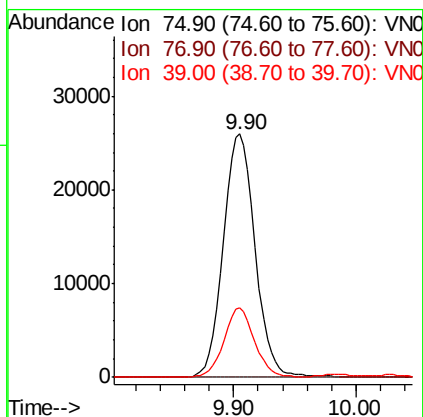
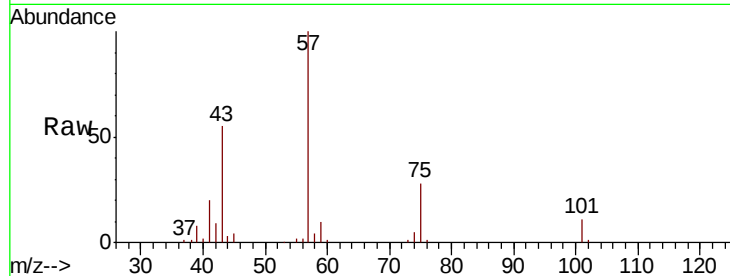


#54

cis-1,3-Dichloropropene
 Concen: 9.530 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056772.D
 Acq: 16 Jul 2019 16:32

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121398ZHE#09

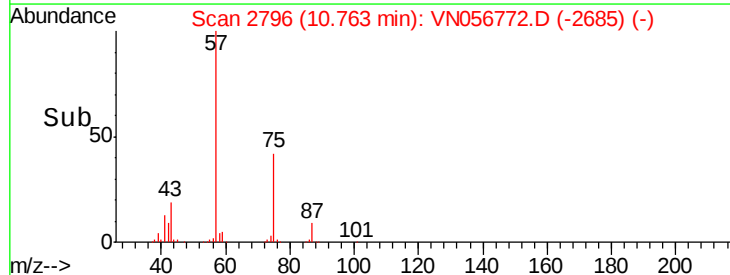
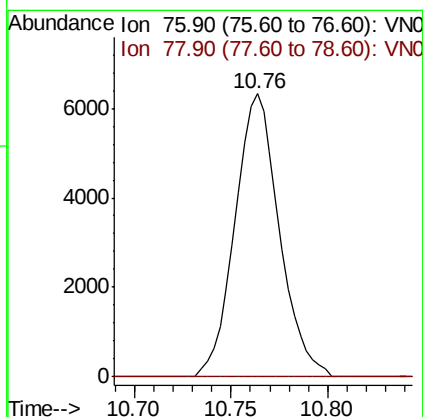
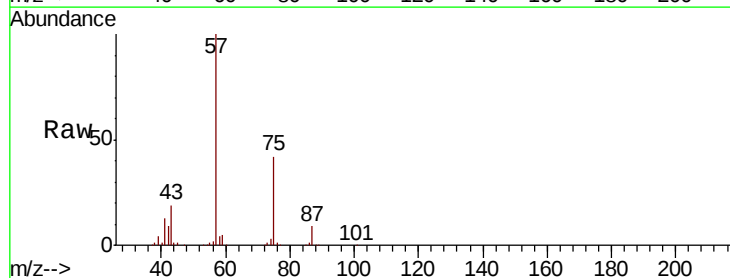
Tot Ion: 75 Resp: 47485
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.0 39.0#
 39 28.8 35.1 52.7#

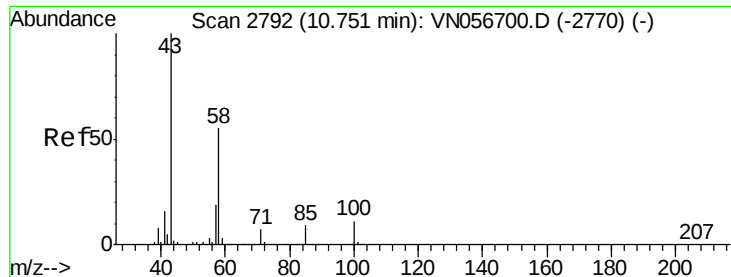


#57

1,3-Dichloropropane
 Concen: 1.887 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056772.D
 Acq: 16 Jul 2019 16:32

Tgt Ion: 76 Resp: 10096
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#

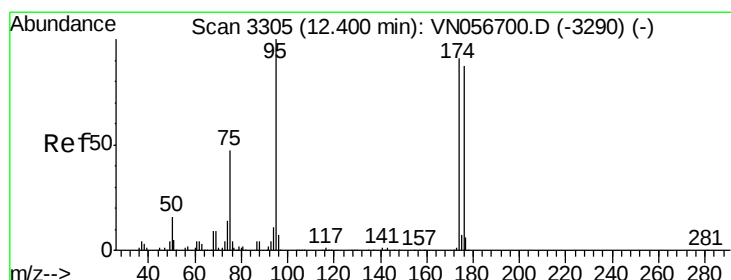
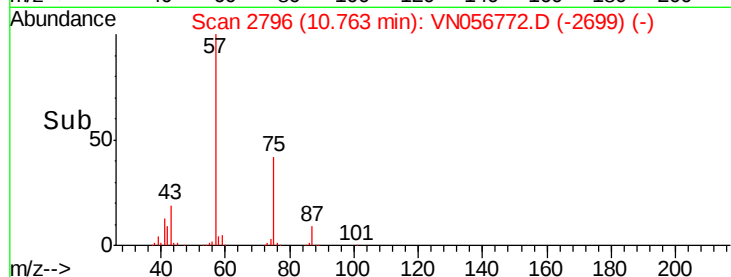
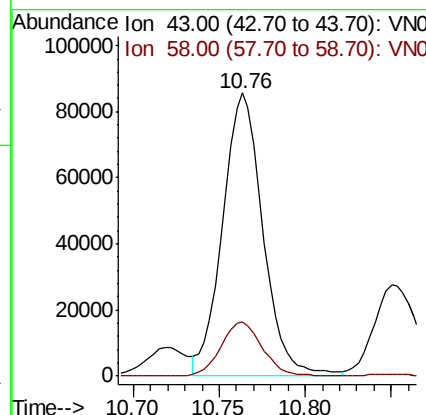
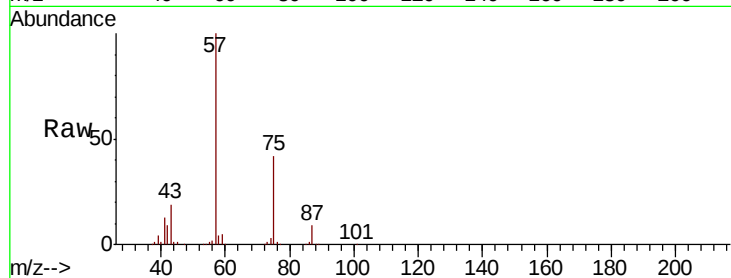




#59
2-Hexanone
Concen: 44.936 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056772.D
Acq: 16 Jul 2019 16:32

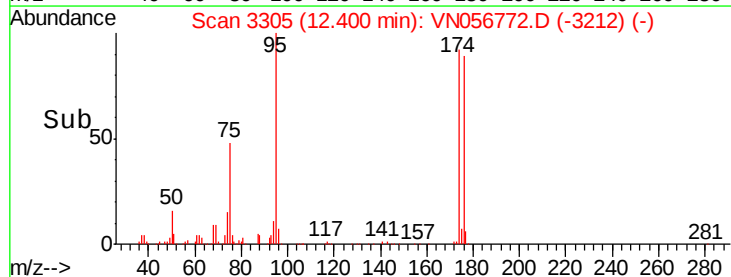
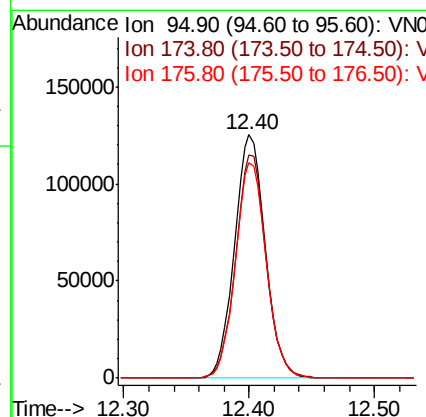
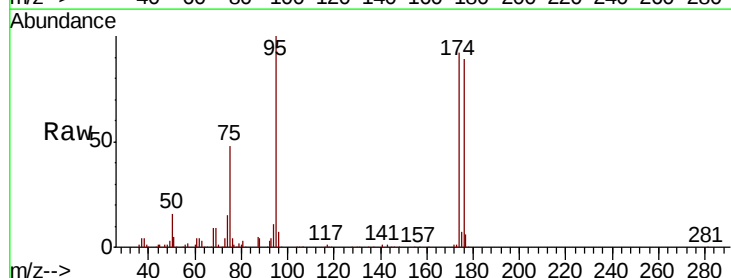
Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#09

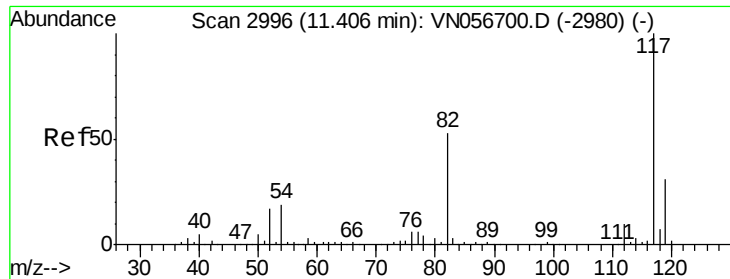
Tot Ion: 43 Resp: 138905
Ion Ratio Lower Upper
43 100
58 20.0 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 56.650 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056772.D
Acq: 16 Jul 2019 16:32

Tgt Ion: 95 Resp: 213014
Ion Ratio Lower Upper
95 100
174 91.1 0.0 180.0
176 88.8 0.0 173.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#09

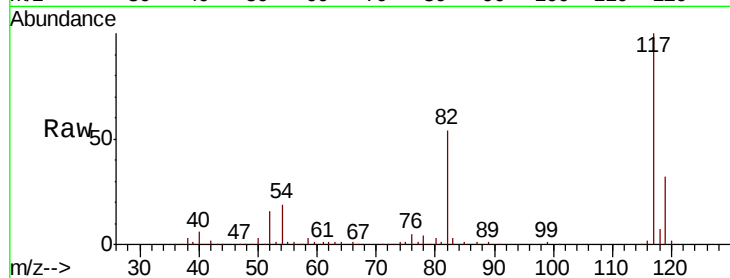
Tot Ion:117 Resp: 494579

Ion Ratio Lower Upper

117 100

82 53.5 42.2 63.2

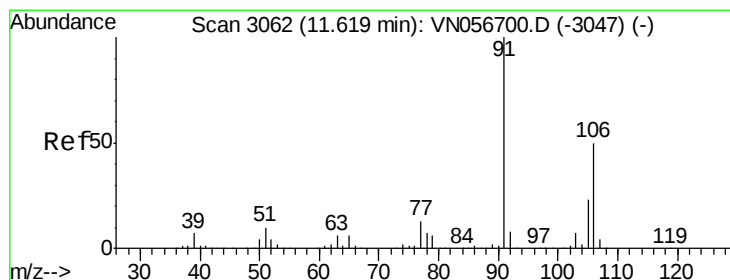
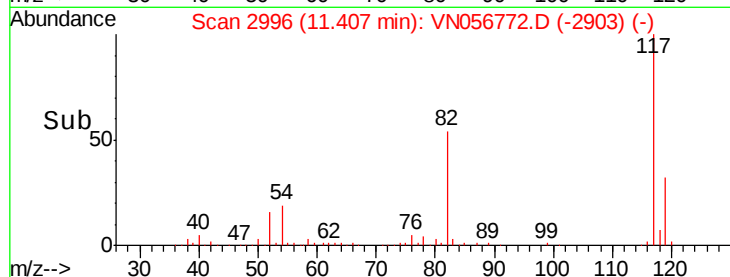
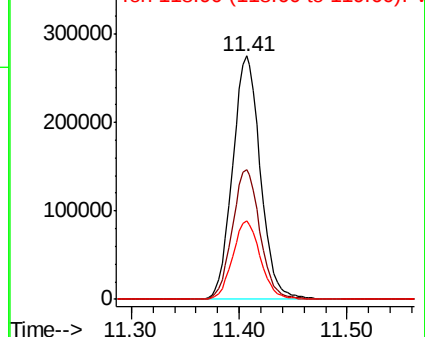
119 32.1 25.2 37.8



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



#68

m/p-Xylenes

Concen: 0.564 ug/l

RT: 11.63 min Scan# 3065

Delta R.T. 0.01 min

Lab File: VN056772.D

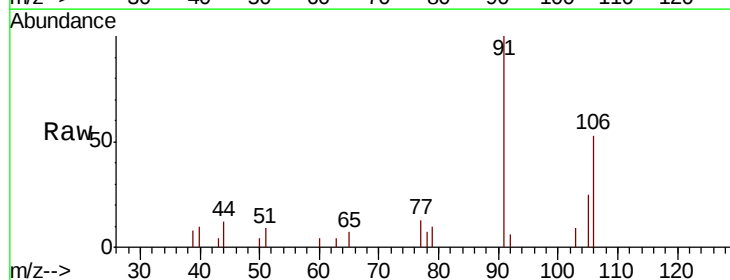
Acq: 16 Jul 2019 16:32

Tgt Ion:106 Resp: 3749

Ion Ratio Lower Upper

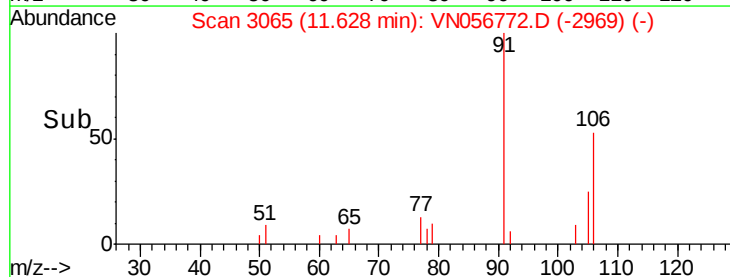
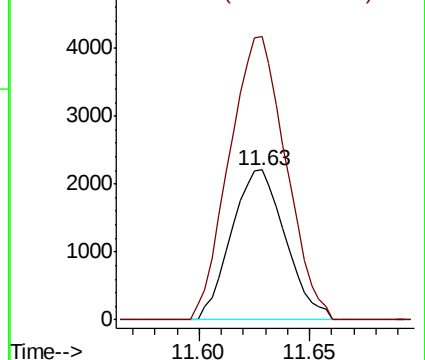
106 100

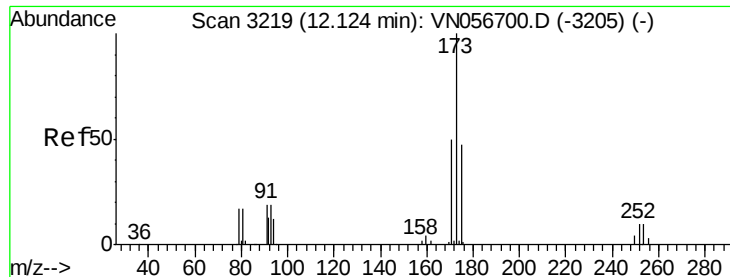
91 197.5 160.5 240.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 0.603 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#09

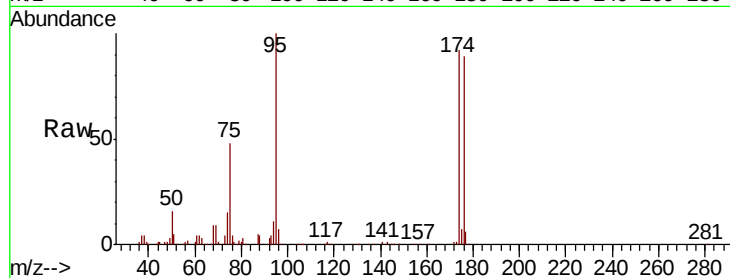
Tot Ion:173 Resp: 1708

Ion Ratio Lower Upper

173 100

175 678.6 23.8 71.4#

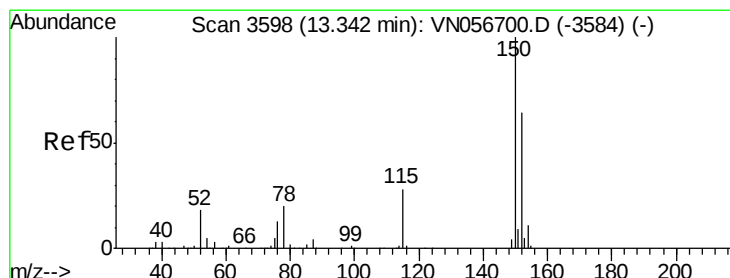
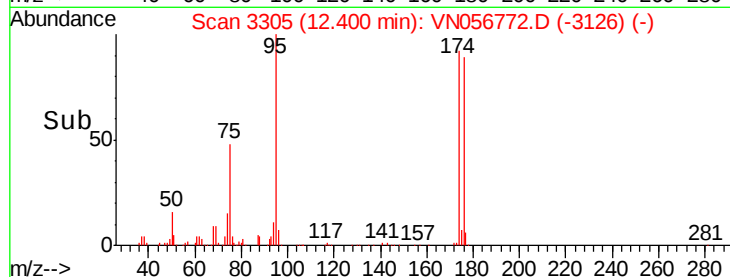
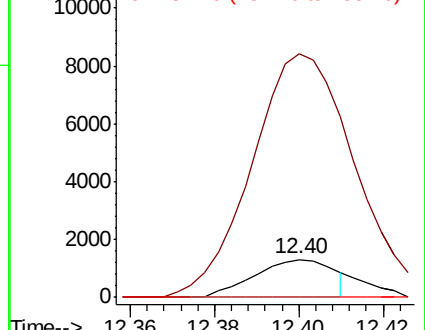
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

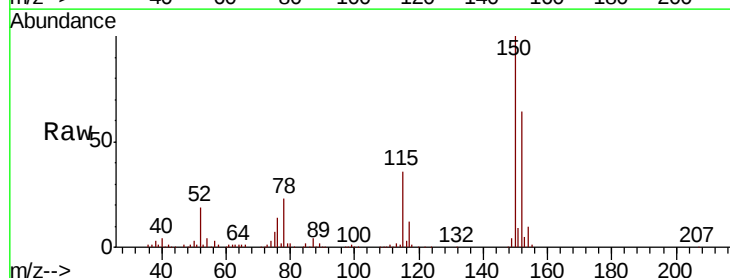
Tgt Ion:152 Resp: 178822

Ion Ratio Lower Upper

152 100

115 56.1 28.2 84.7

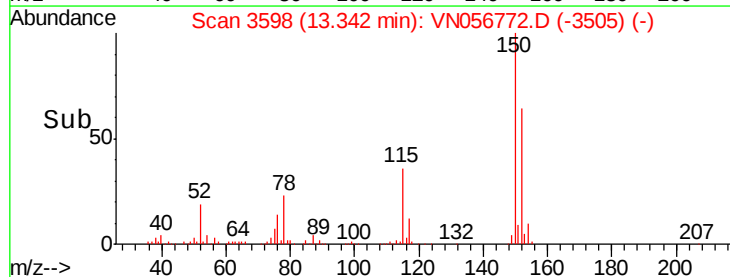
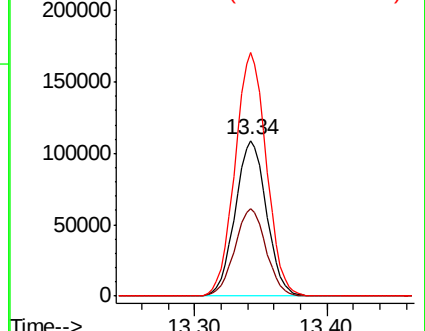
150 156.9 0.0 345.8

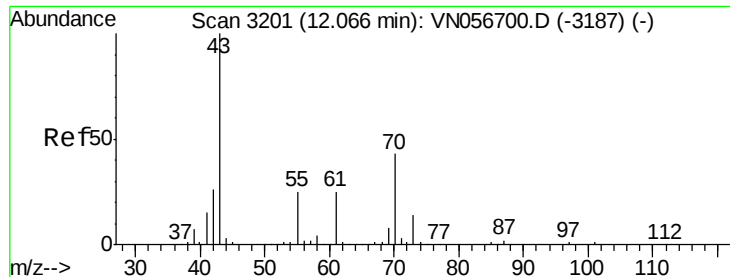


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.153 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#09

Tot Ion: 43 Resp: 11563

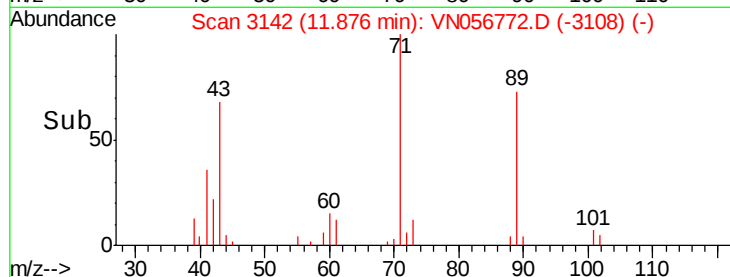
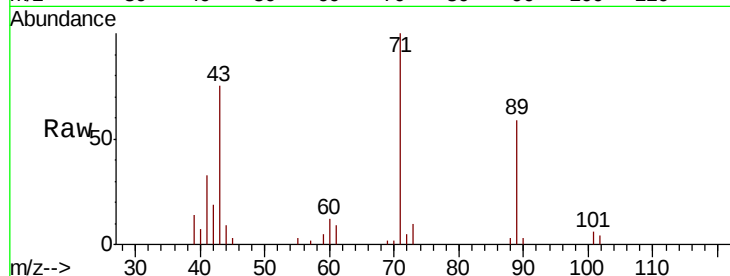
Ion Ratio Lower Upper

43 100

70 1.8 34.5 51.7#

55 4.8 20.2 30.2#

61 10.2 19.9 29.9#

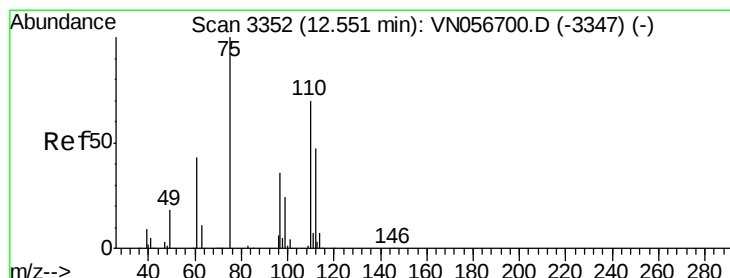
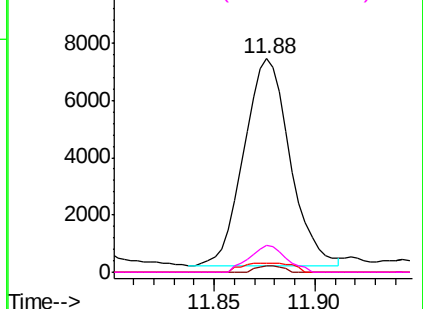


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 25.693 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056772.D

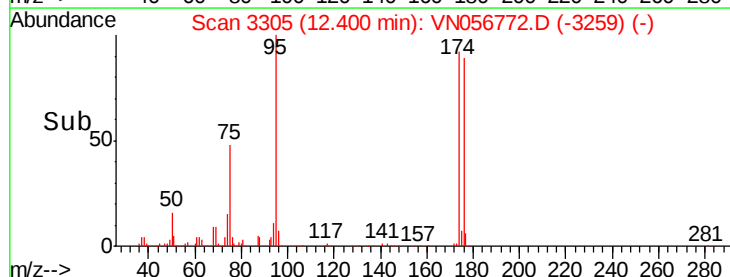
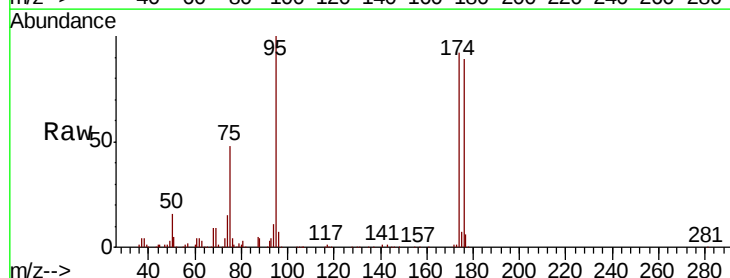
Acq: 16 Jul 2019 16:32

Tgt Ion: 75 Resp: 100489

Ion Ratio Lower Upper

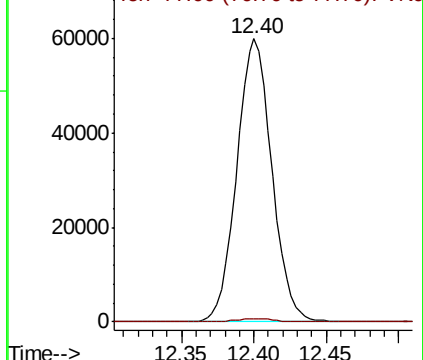
75 100

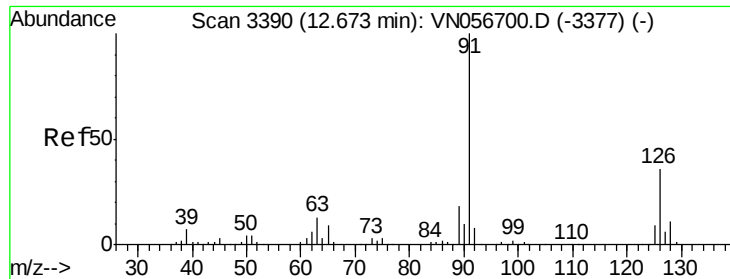
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.77 min Scan# 3419

Delta R.T. 0.09 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

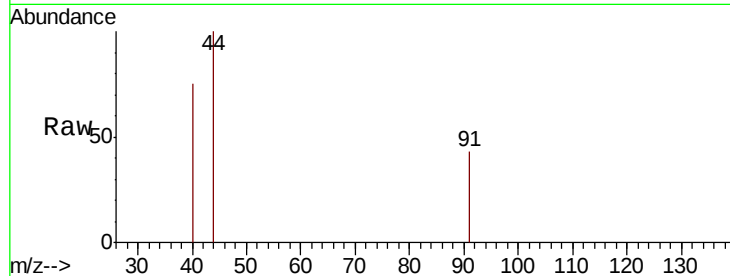
PB121398ZHE#09

Tot Ion: 91 Resp: 66

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.77

200

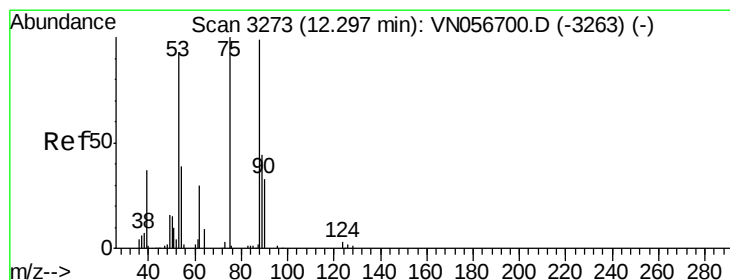
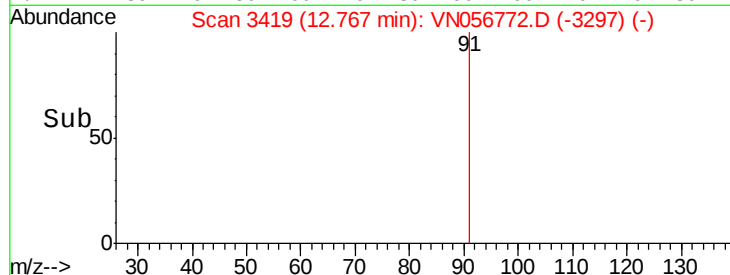
150

100

50

0

Time--> 12.75 12.76 12.77



#81

trans-1,4-Dichloro-2-butene

Concen: 79.349 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

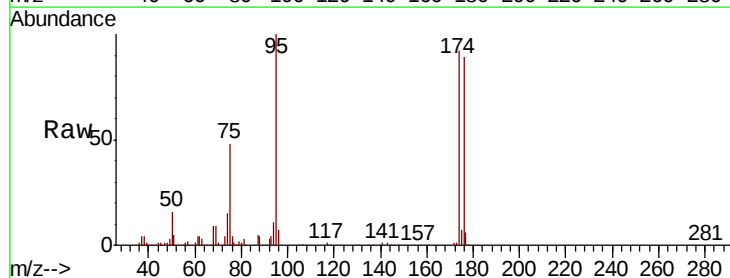
Tgt Ion: 75 Resp: 100489

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

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

80000

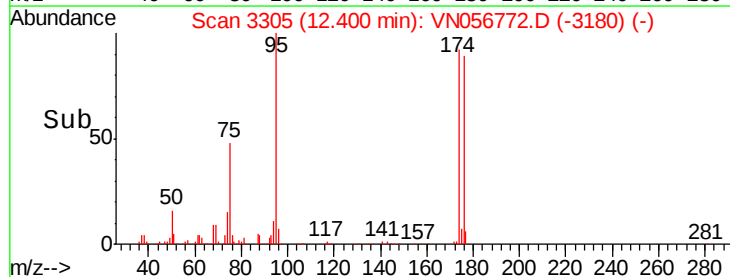
60000

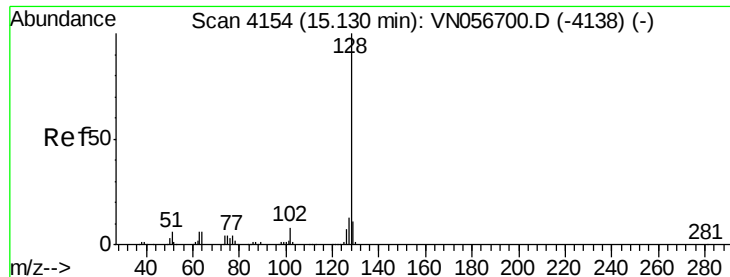
40000

20000

0

Time--> 12.35 12.40 12.45





#95

Naphthalene

Concen: 4.536 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056772.D

Acq: 16 Jul 2019 16:32

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#09

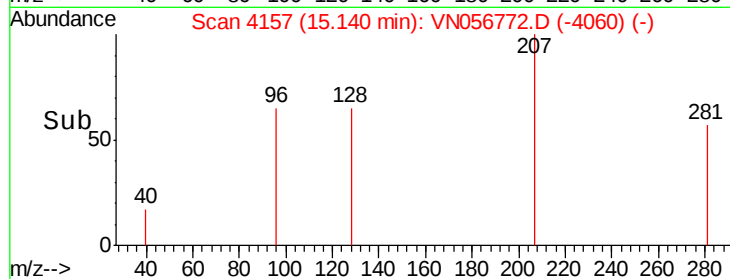
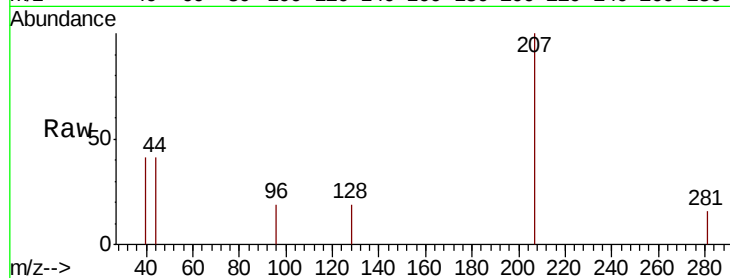
Tot Ion:128 Resp: 108

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



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

