

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN060820\
 Data File : VN061706.D
 Acq On : 8 Jun 2020 19:15
 Operator : JC/MD
 Sample : PB129340ZHE#01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#01

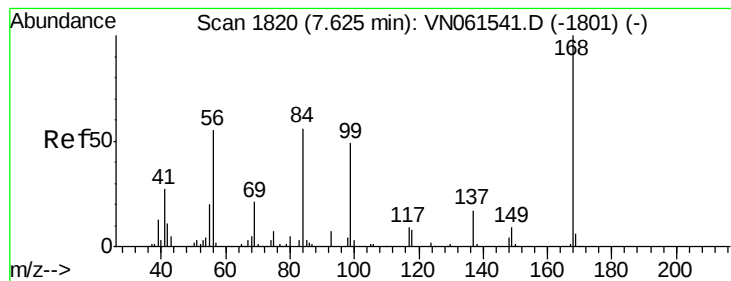
Quant Time: Jun 09 03:14:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	290545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	499988	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	517018	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	232064	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	167195	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
35) Dibromofluoromethane	7.55	113	128951	50.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.68%	
50) Toluene-d8	10.06	98	613352	52.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.36%	
62) 4-Bromofluorobenzene	12.38	95	220953	51.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	851	0.44	ug/l	93
11) Tert butyl alcohol	4.74	59	176	0.38	ug/l #	72
16) Acetone	3.78	43	23569	18.97	ug/l	98
18) Methyl Acetate	4.28	43	2087	0.67	ug/l #	62
20) Methylene Chloride	4.50	84	15050	3.15	ug/l	95
25) 2-Butanone	6.80	43	3974	2.42	ug/l #	85
29) Tetrahydrofuran	7.18	42	783	0.72	ug/l #	38
31) Cyclohexane	7.63	56	5062	1.04	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	20381	4.60	ug/l #	48
38) Carbon Tetrachloride	7.63	117	27716	6.49	ug/l #	16
43) Isopropyl Acetate	8.13	43	61291	9.56	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1426	0.44	ug/l #	44
48) Methyl methacrylate	9.14	41	3116	1.08	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	6822	1.89	ug/l	94
52) Toluene	10.12	92	3350	0.38	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	35773	6.27	ug/l #	64
56) Ethyl methacrylate	10.51	69	1118	0.23	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5824	1.03	ug/l #	42
59) 2-Hexanone	10.74	43	64128	24.71	ug/l #	50
71) Bromoform	12.38	173	1874	0.61	ug/l #	1
74) N-amyl acetate	12.00	43	2633	0.49	ug/l #	40
76) 1,2,3-Trichloropropane	12.38	75	109373	25.92	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3606	0.25	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.38	75	109373	66.28	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

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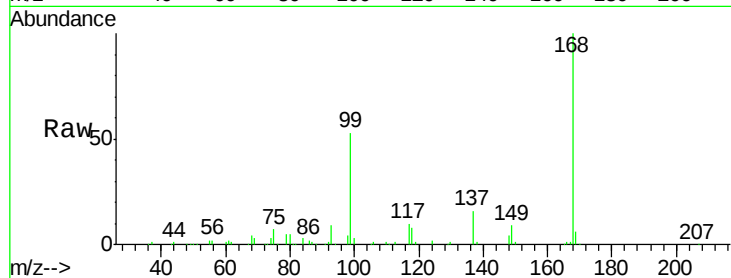
PB129340ZHE#01

Tgt Ion:168 Resp: 290545

Ion Ratio Lower Upper

168 100

99 52.8 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

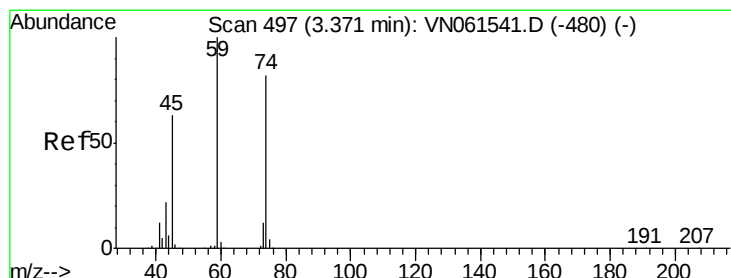
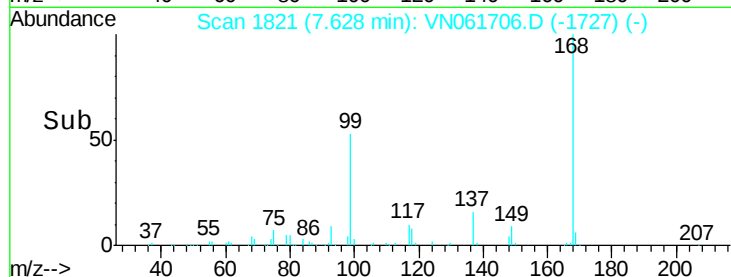
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.44 ug/l

RT: 3.37 min Scan# 498

Delta R.T. 0.00 min

Lab File: VN061706.D

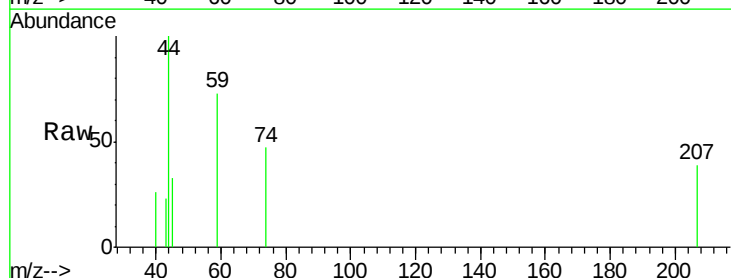
Acq: 8 Jun 2020 19:15

Tgt Ion: 74 Resp: 851

Ion Ratio Lower Upper

74 100

45 85.5 39.9 119.7



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

3.37

400

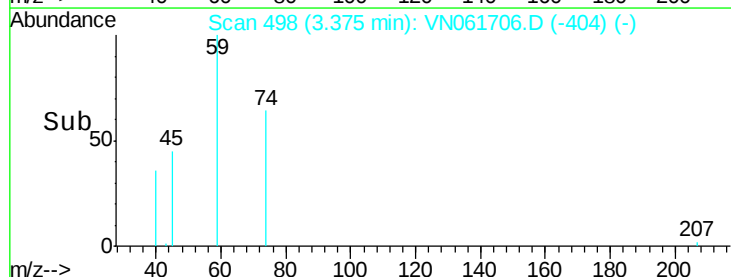
300

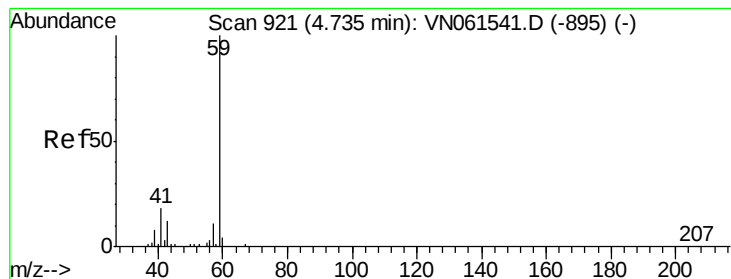
200

100

0

Time--> 3.35 3.40





#11

Tert butyl alcohol

Concen: 0.38 ug/l

RT: 4.74 min Scan# 922

Delta R.T. 0.00 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

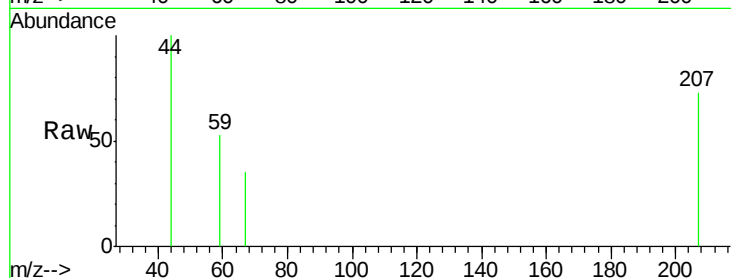
PB129340ZHE#01

Tgt Ion: 59 Resp: 176

Ion Ratio Lower Upper

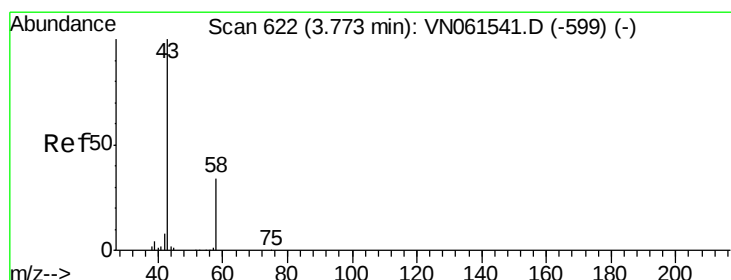
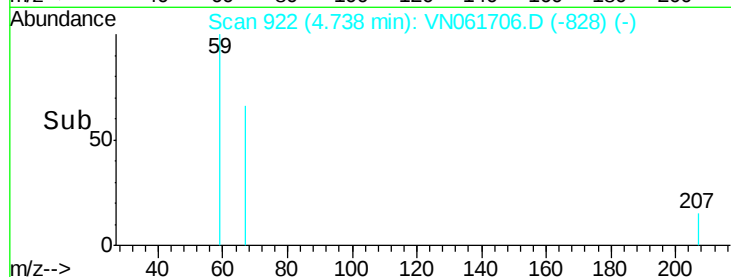
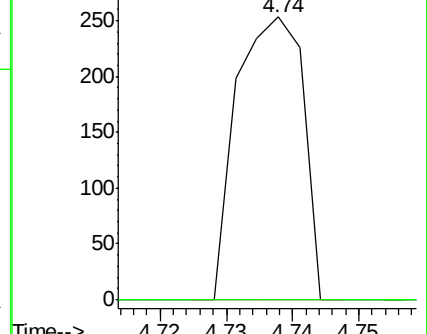
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#16

Acetone

Concen: 18.97 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061706.D

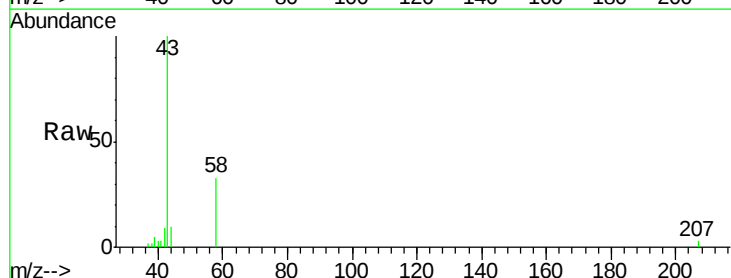
Acq: 8 Jun 2020 19:15

Tgt Ion: 43 Resp: 23569

Ion Ratio Lower Upper

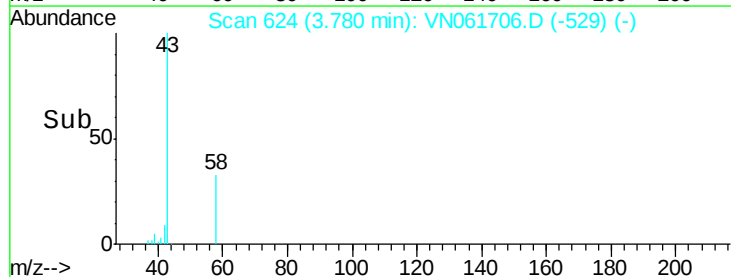
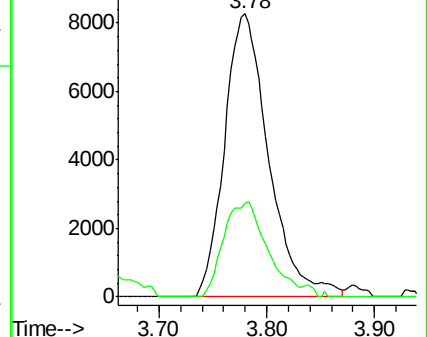
43 100

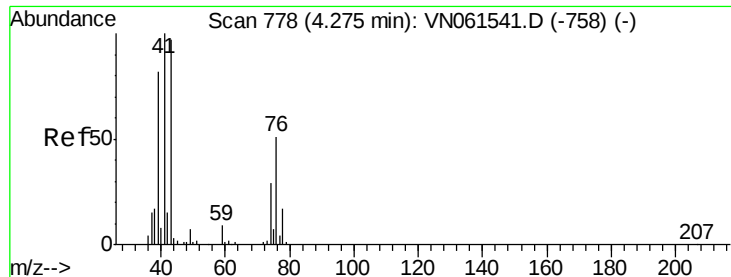
58 33.0 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

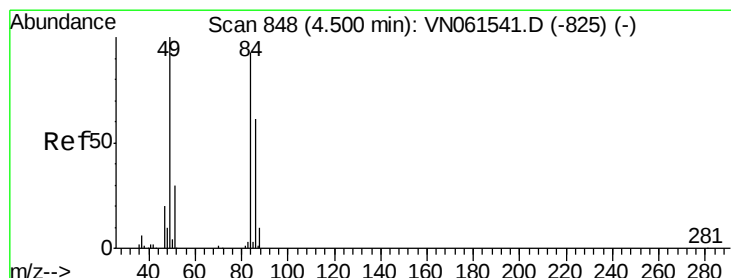
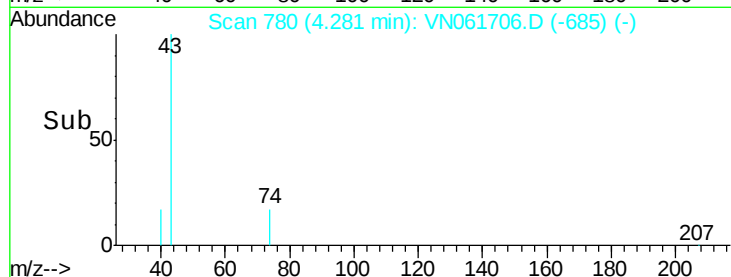
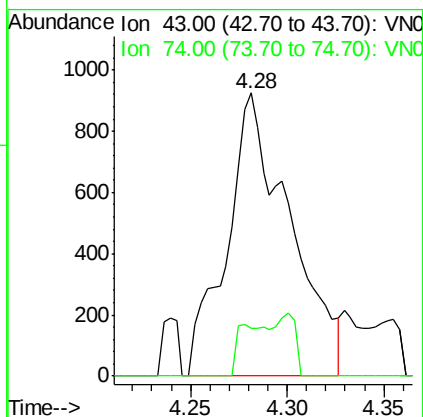
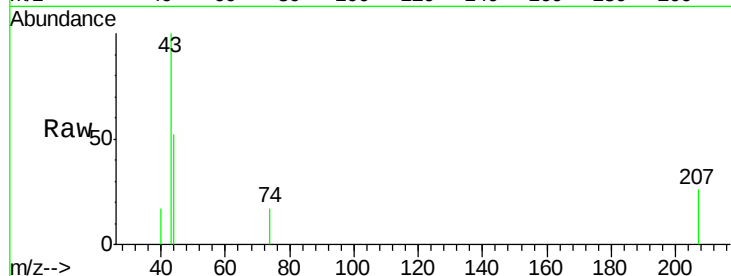




#18
Methyl Acetate
Concen: 0.67 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN061706.D
Acq: 8 Jun 2020 19:15

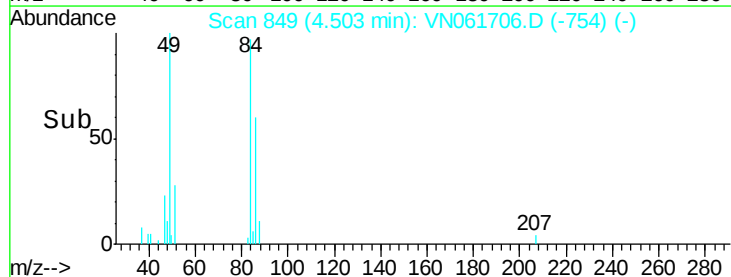
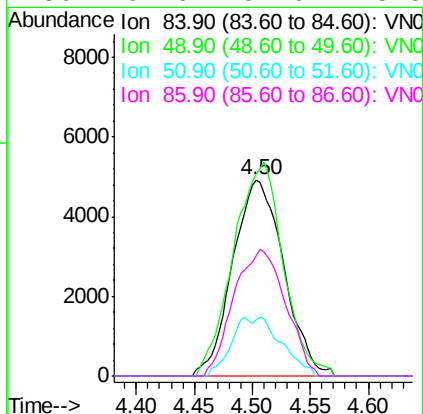
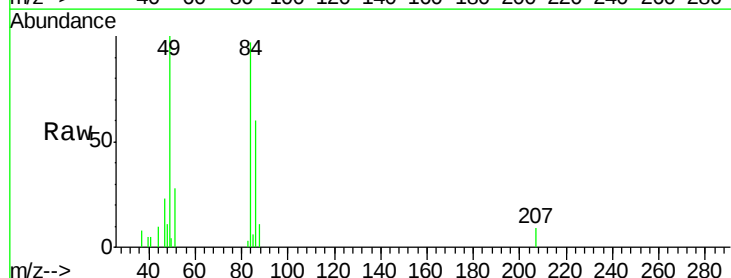
Instrument :
MSVOA_N
ClientSampleId :
PB129340ZHE#01

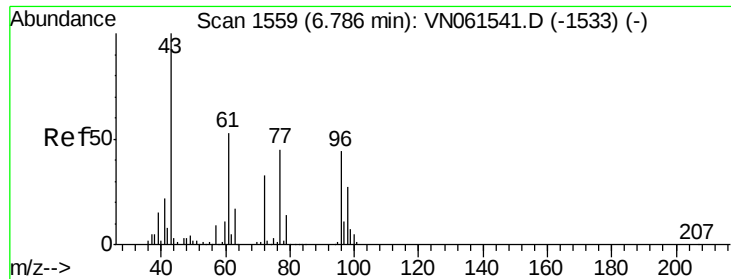
Tgt Ion: 43 Resp: 2087
Ion Ratio Lower Upper
43 100
74 8.9 23.2 34.8#



#20
Methylene Chloride
Concen: 3.15 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061706.D
Acq: 8 Jun 2020 19:15

Tgt Ion: 84 Resp: 15050
Ion Ratio Lower Upper
84 100
49 103.1 85.8 128.8
51 28.8 26.2 39.2
86 61.6 52.6 78.8

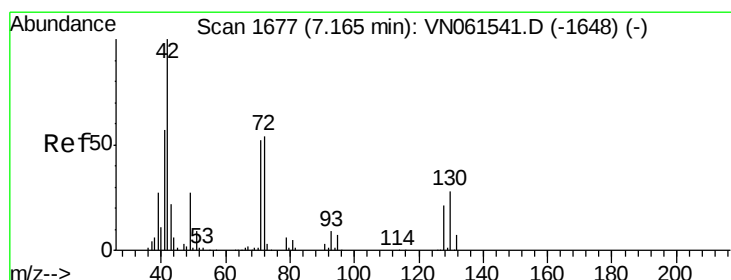
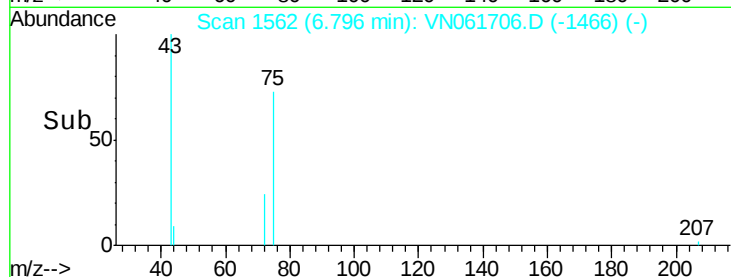
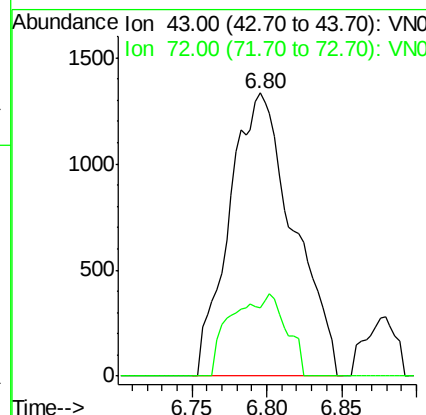
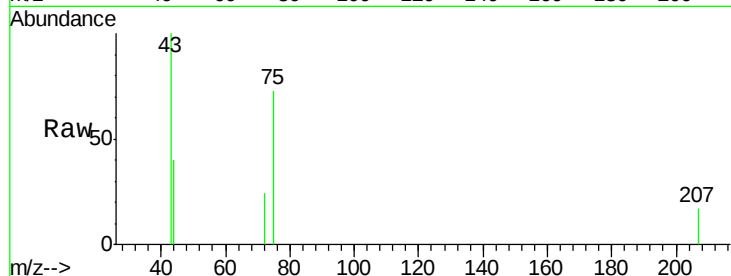




#25
2-Butanone
Concen: 2.42 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN061706.D
Acq: 8 Jun 2020 19:15

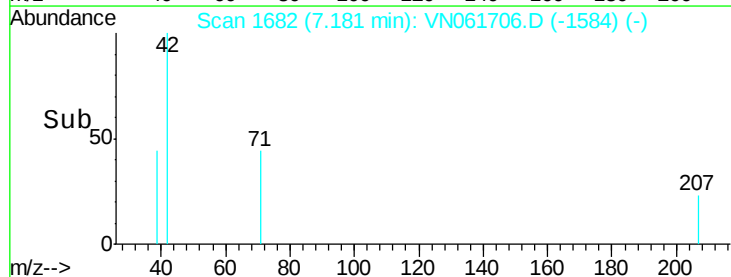
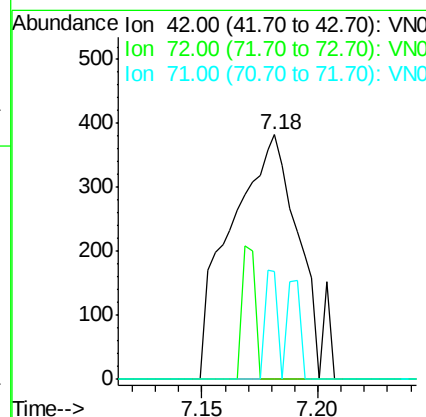
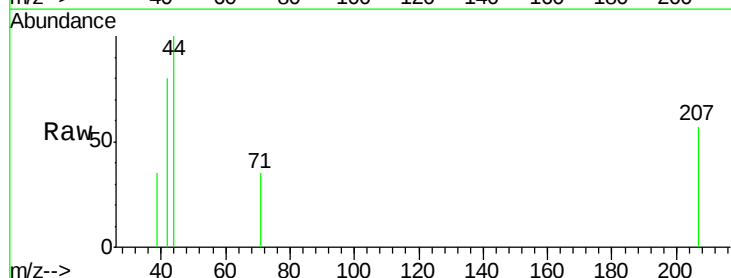
Instrument :
MSVOA_N
ClientSampleId :
PB129340ZHE#01

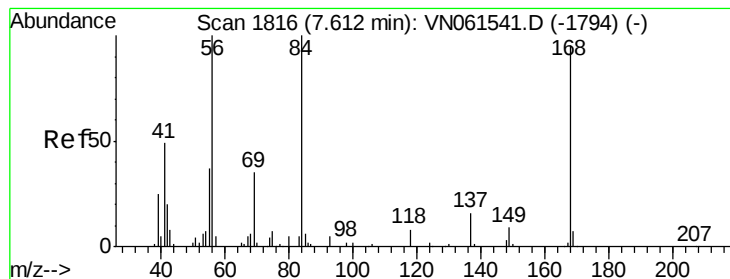
Tgt Ion: 43 Resp: 3974
Ion Ratio Lower Upper
43 100
72 24.2 26.0 39.0#



#29
Tetrahydrofuran
Concen: 0.72 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.02 min
Lab File: VN061706.D
Acq: 8 Jun 2020 19:15

Tgt Ion: 42 Resp: 783
Ion Ratio Lower Upper
42 100
72 10.1 43.6 65.4#
71 8.3 41.2 61.8#





#31

Cyclohexane

Concen: 1.04 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#01

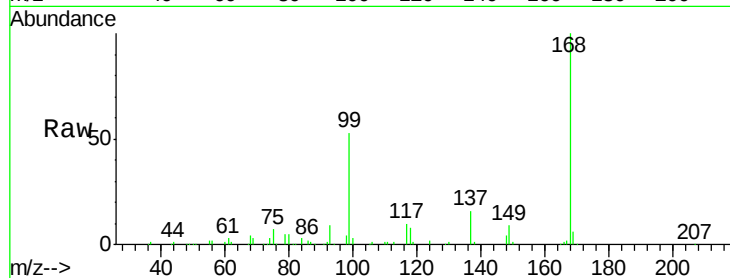
Tgt Ion: 56 Resp: 5062

Ion Ratio Lower Upper

56 100

69 193.3 27.8 41.8#

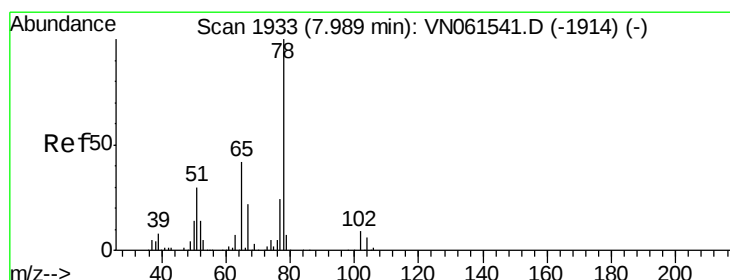
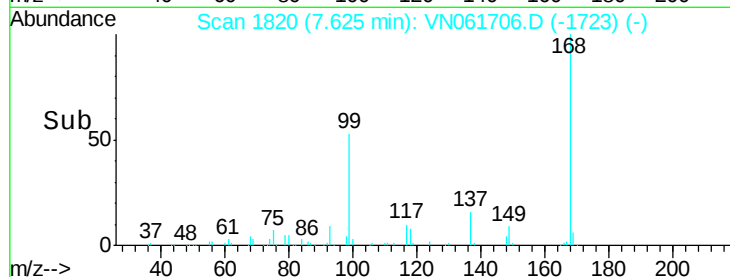
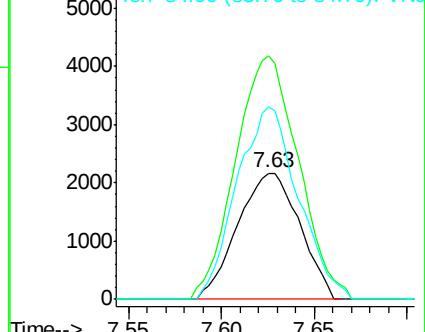
84 152.5 79.9 119.9#



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: 48.30 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061706.D

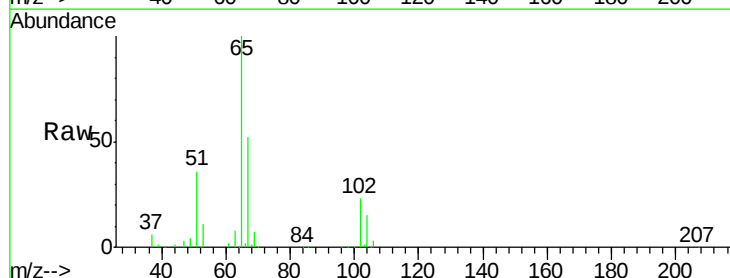
Acq: 8 Jun 2020 19:15

Tgt Ion: 65 Resp: 167195

Ion Ratio Lower Upper

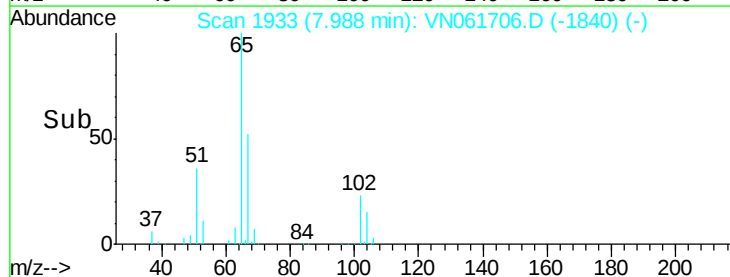
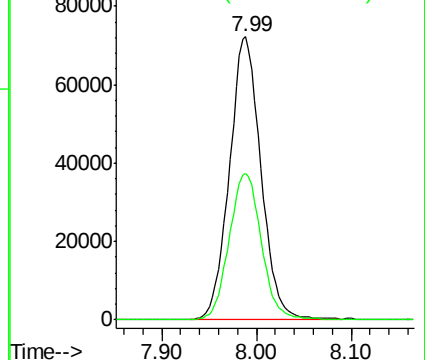
65 100

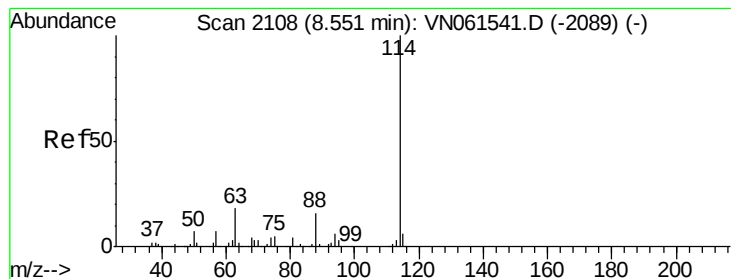
67 52.9 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

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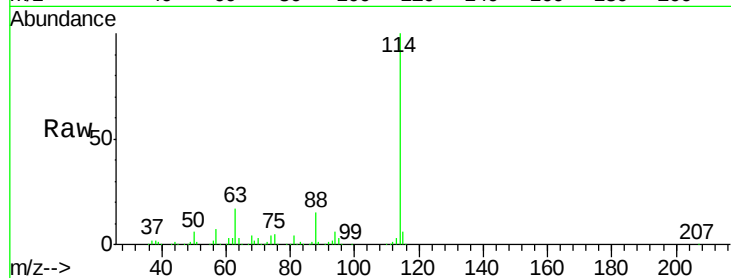
Tgt Ion:114 Resp: 499988

Ion Ratio Lower Upper

114 100

63 16.9 0.0 35.8

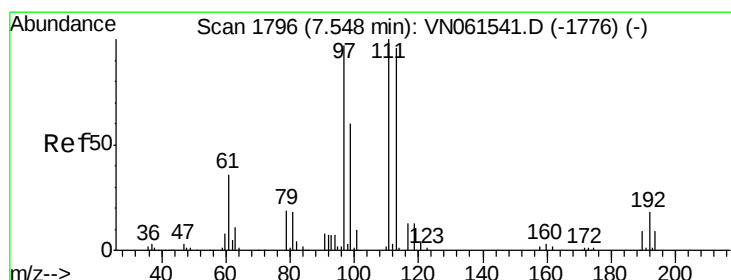
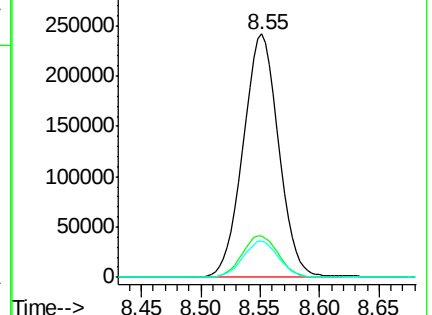
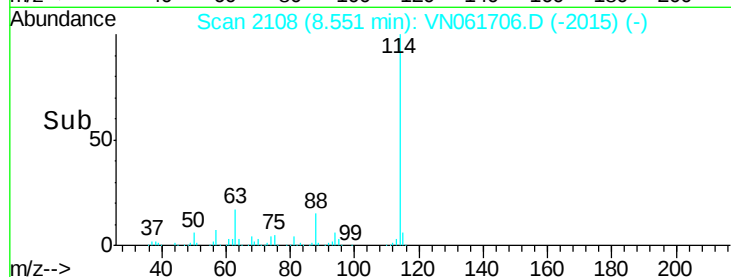
88 15.0 0.0 31.0



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: 50.84 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

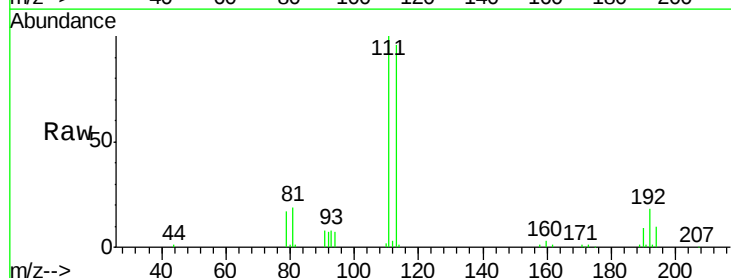
Tgt Ion:113 Resp: 128951

Ion Ratio Lower Upper

113 100

111 106.1 83.4 125.0

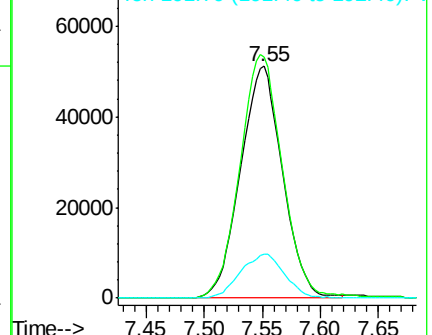
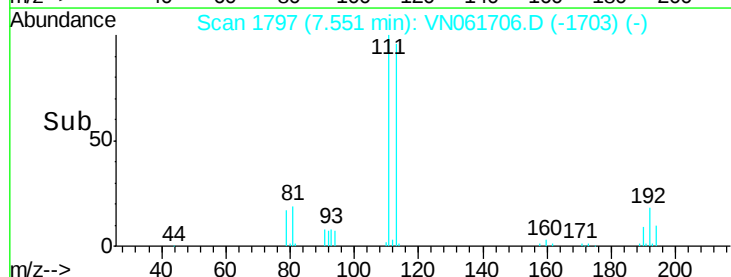
192 19.9 15.4 23.2

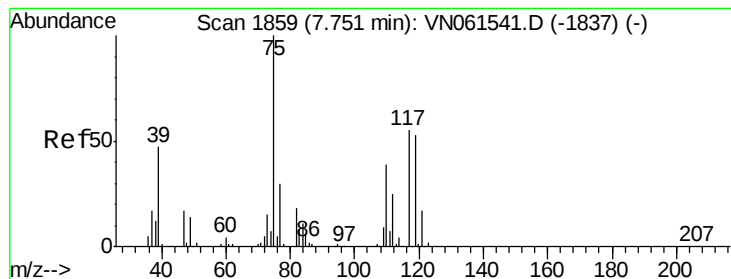


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.60 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#01

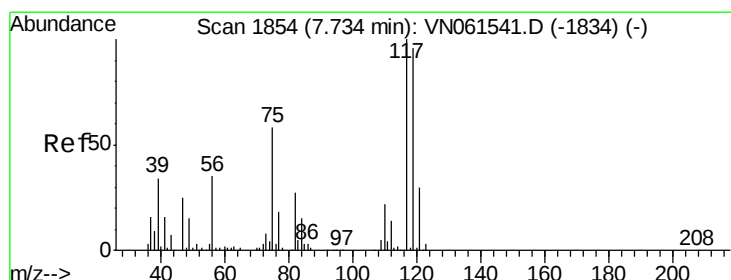
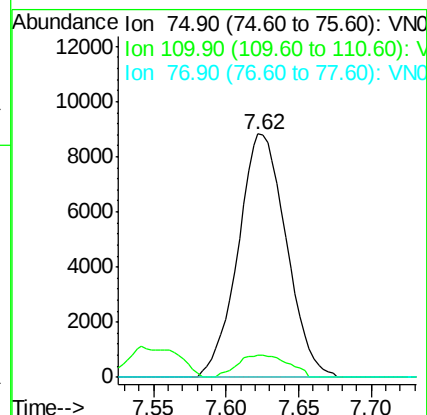
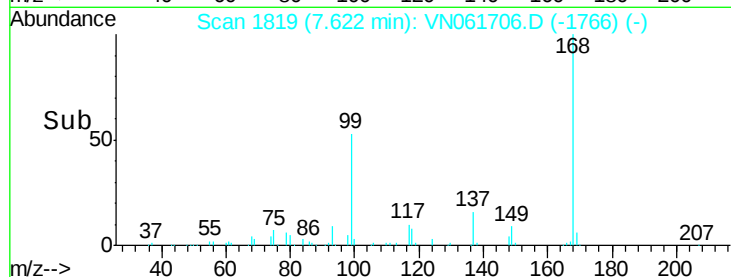
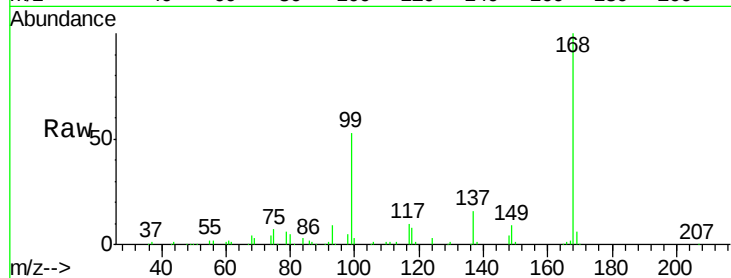
Tgt Ion: 75 Resp: 20381

Ion Ratio Lower Upper

75 100

110 9.6 19.5 58.5#

77 0.0 24.7 37.1#



#38

Carbon Tetrachloride

Concen: 6.49 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

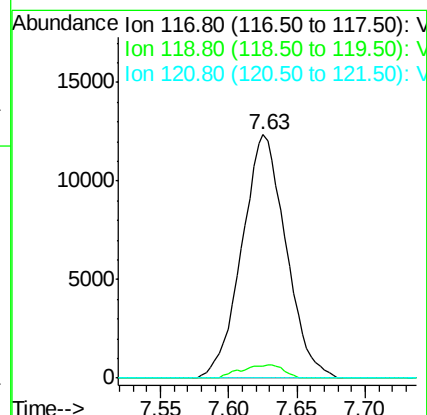
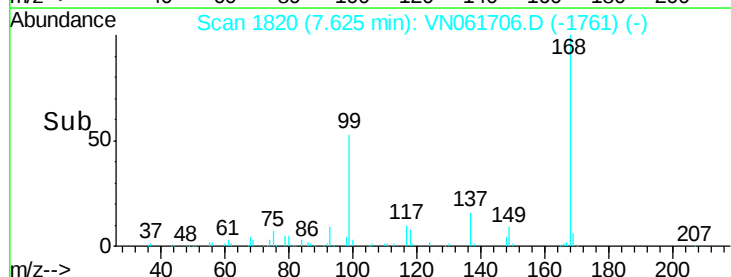
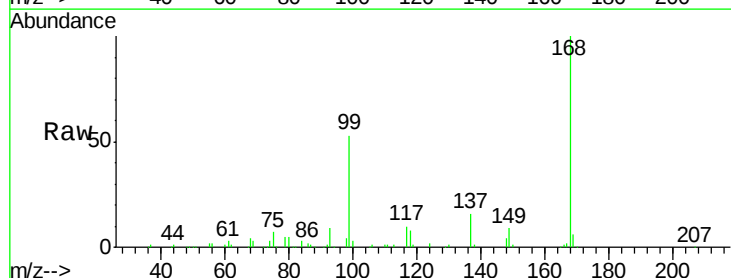
Tgt Ion: 117 Resp: 27716

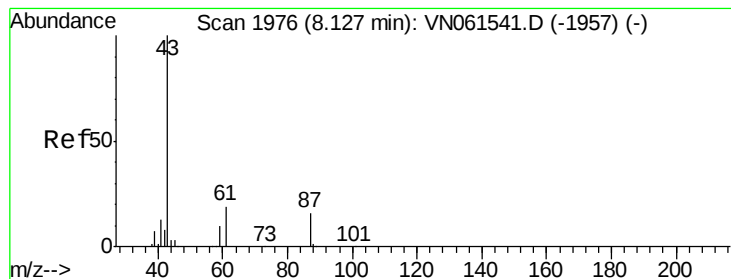
Ion Ratio Lower Upper

117 100

119 5.0 76.5 114.7#

121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 9.56 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#01

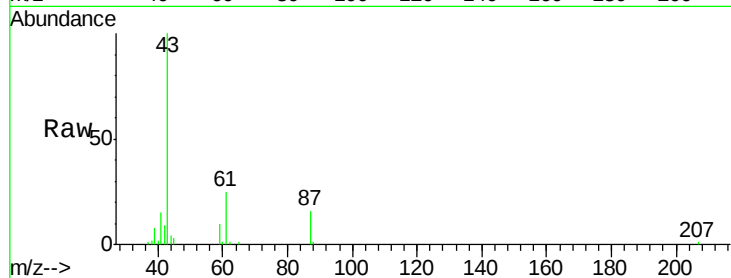
Tgt Ion: 43 Resp: 61291

Ion Ratio Lower Upper

43 100

61 23.0 23.6 35.4#

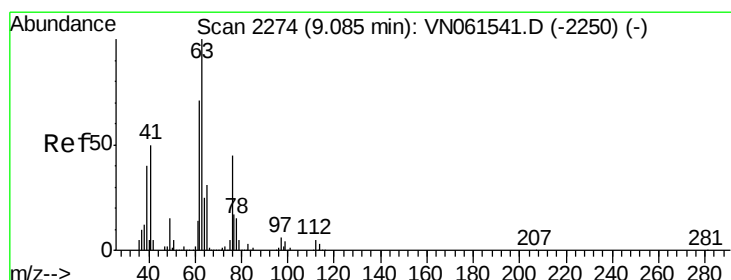
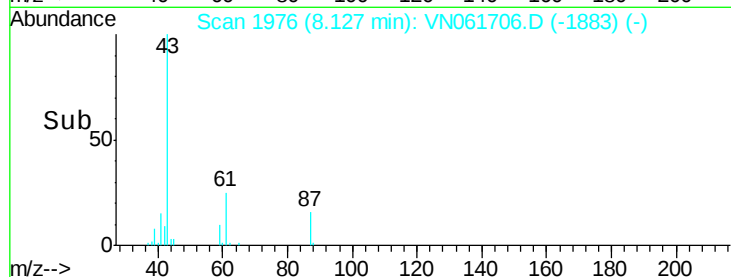
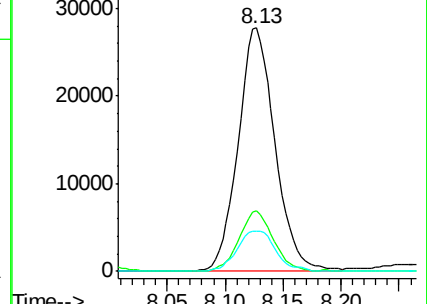
87 17.3 13.0 19.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.44 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN061706.D

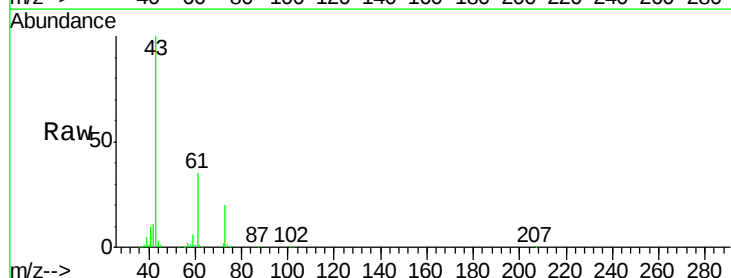
Acq: 8 Jun 2020 19:15

Tgt Ion: 63 Resp: 1426

Ion Ratio Lower Upper

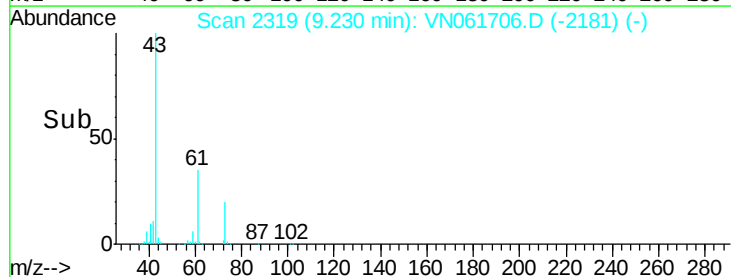
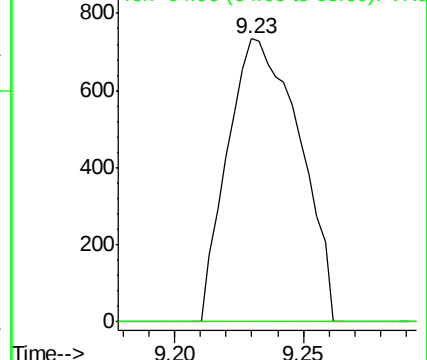
63 100

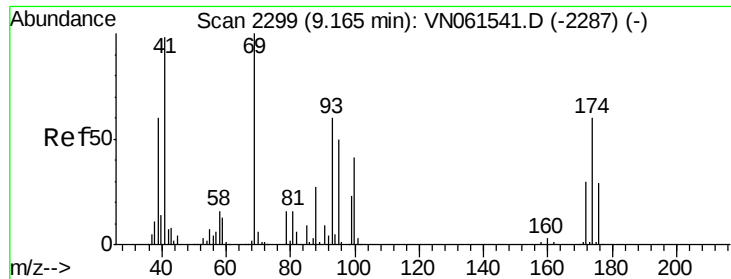
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

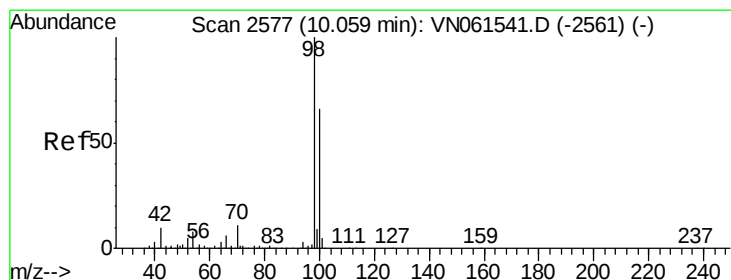
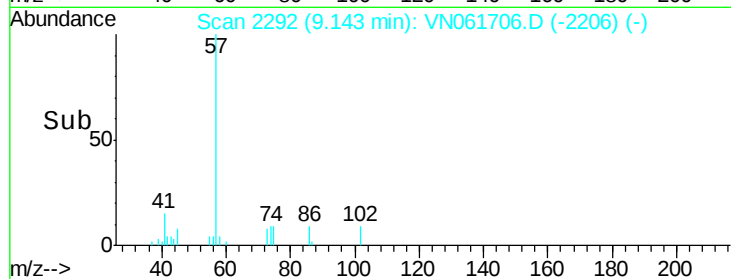
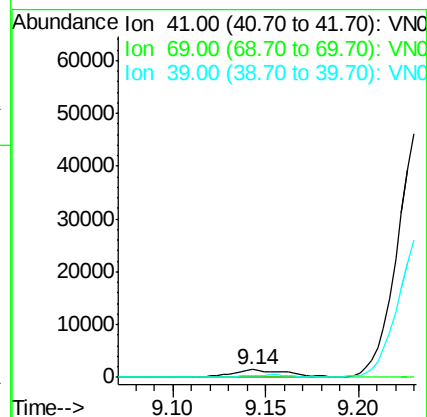
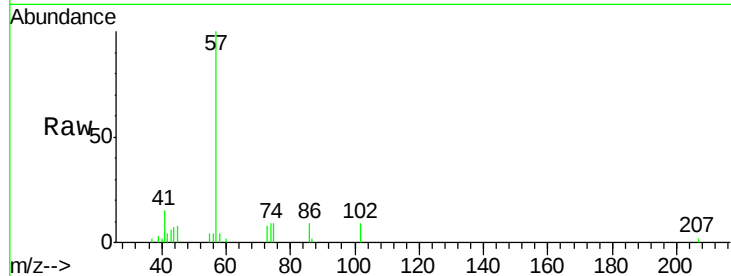




#48
Methyl methacrylate
Concen: 1.08 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN061706.D
Acq: 8 Jun 2020 19:15

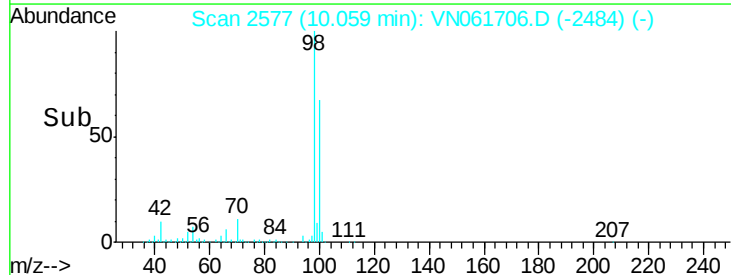
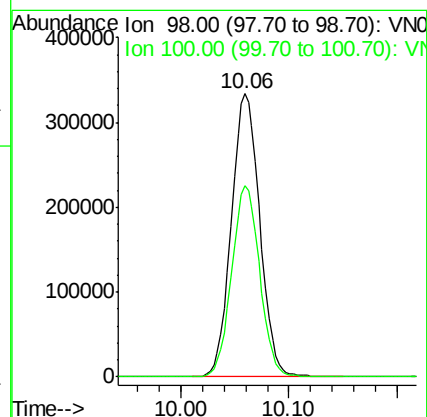
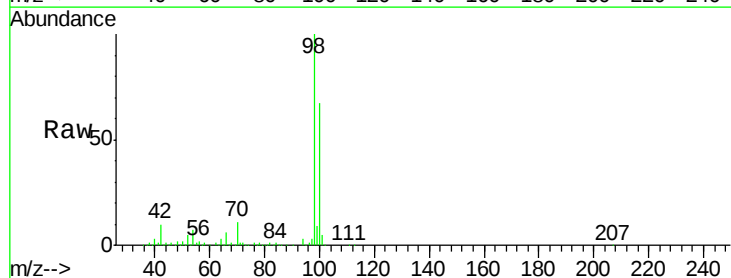
Instrument :
MSVOA_N
ClientSampleId :
PB129340ZHE#01

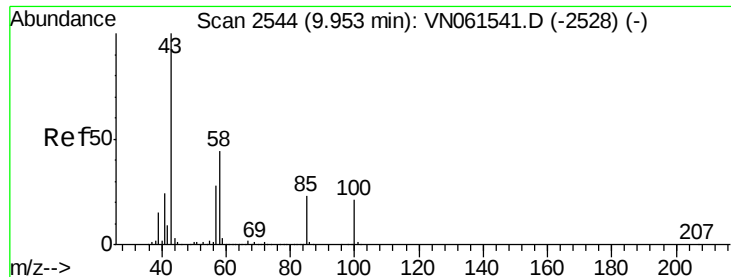
Tgt Ion: 41 Resp: 3116
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#50
Toluene-d8
Concen: 52.18 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061706.D
Acq: 8 Jun 2020 19:15

Tgt Ion: 98 Resp: 613352
Ion Ratio Lower Upper
98 100
100 66.7 52.8 79.2

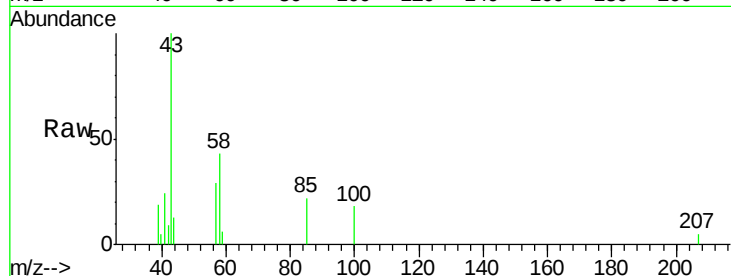




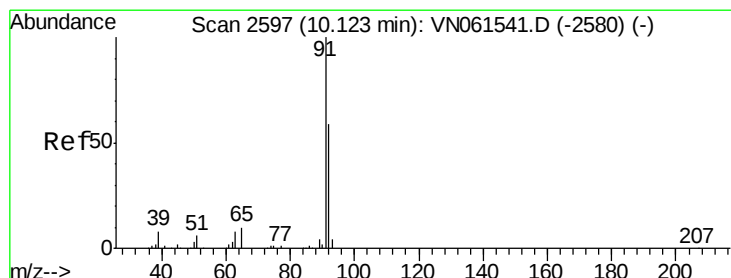
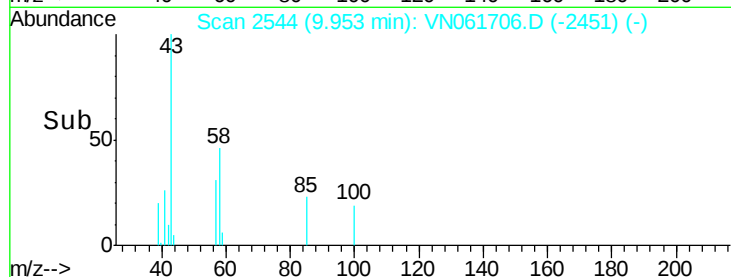
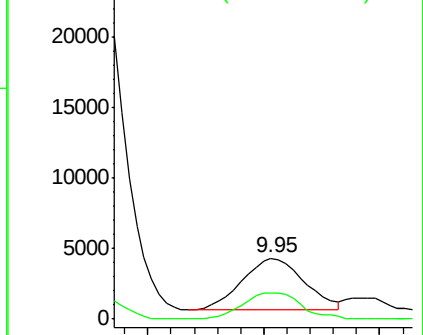
#51
 4-Methyl-2-Pentanone
 Concen: 1.89 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. -0.00 min
 Lab File: VN061706.D
 Acq: 8 Jun 2020 19:15

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#01

Tgt Ion: 43 Resp: 6822
 Ion Ratio Lower Upper
 43 100
 58 47.7 35.0 52.6

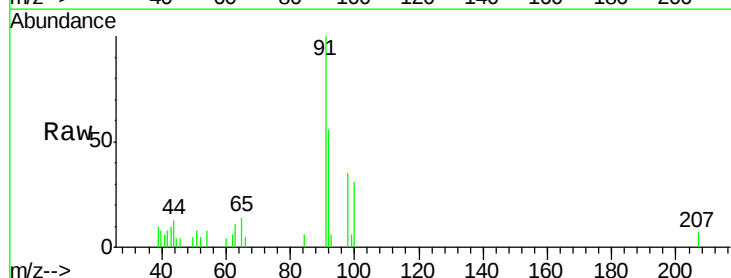


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

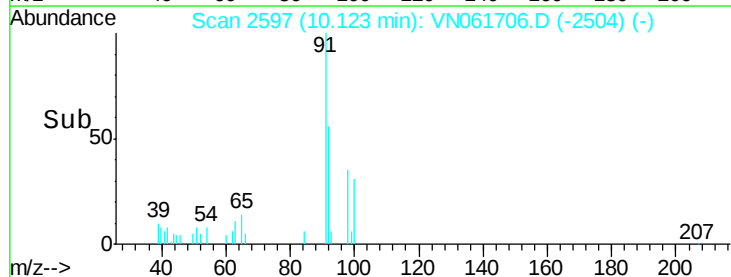
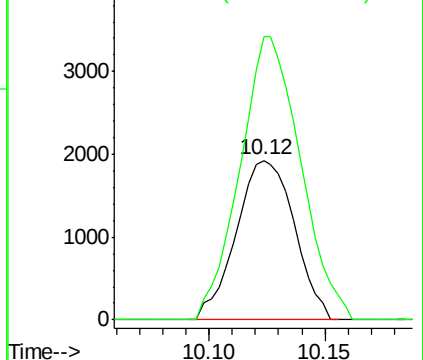


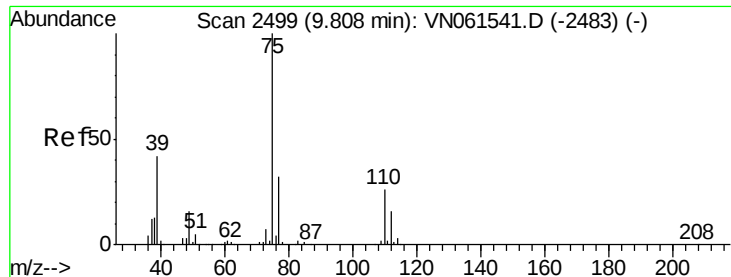
#52
 Toluene
 Concen: 0.38 ug/l
 RT: 10.12 min Scan# 2597
 Delta R.T. -0.00 min
 Lab File: VN061706.D
 Acq: 8 Jun 2020 19:15

Tgt Ion: 92 Resp: 3350
 Ion Ratio Lower Upper
 92 100
 91 185.0 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VN0
 Ion 91.00 (90.70 to 91.70): VN0

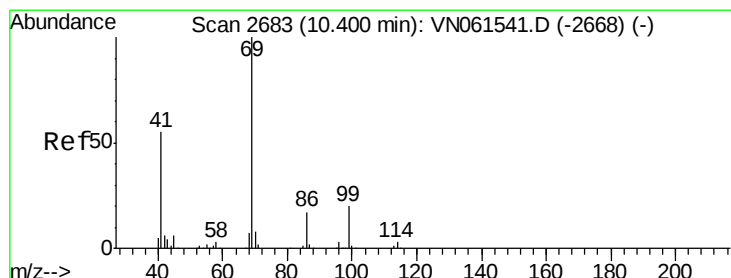
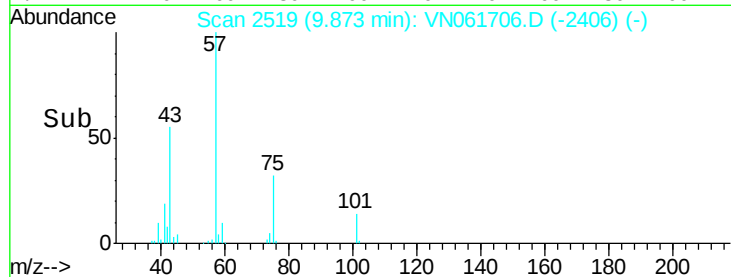
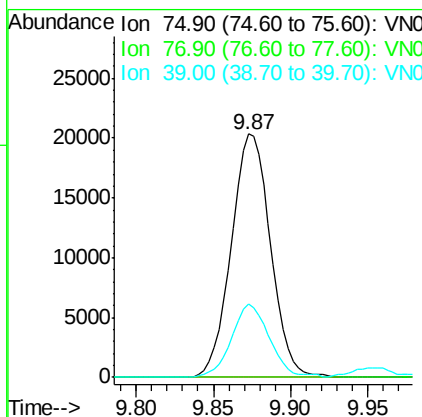
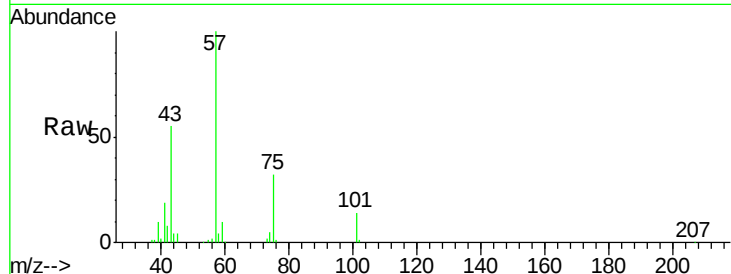




#54
 cis-1,3-Dichloropropene
 Concen: 6.27 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061706.D
 Acq: 8 Jun 2020 19:15

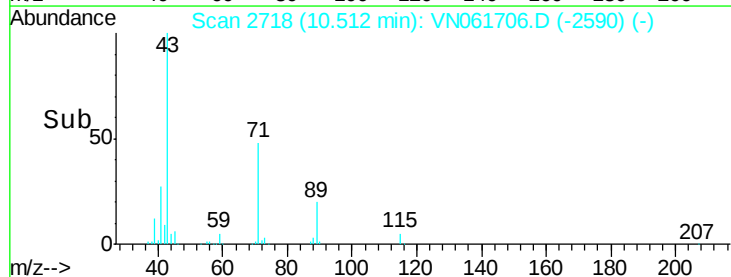
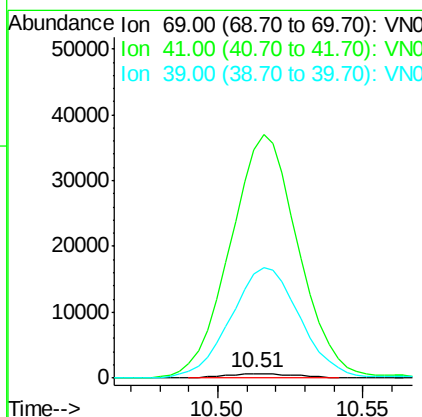
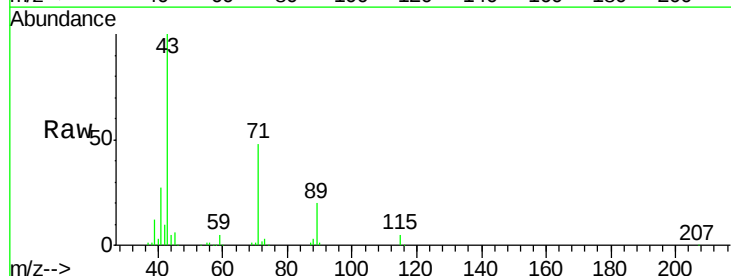
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#01

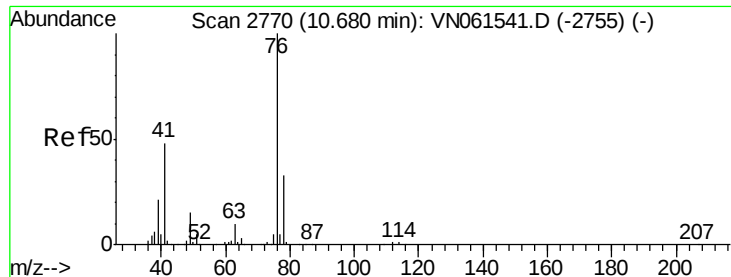
Tgt Ion: 75 Resp: 35773
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 29.9 33.8 50.6#



#56
 Ethyl methacrylate
 Concen: 0.23 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN061706.D
 Acq: 8 Jun 2020 19:15

Tgt Ion: 69 Resp: 1118
 Ion Ratio Lower Upper
 69 100
 41 5449.7 43.5 65.3#
 39 2508.8 27.0 40.6#

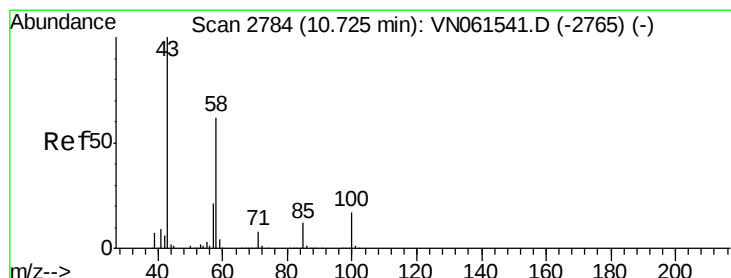
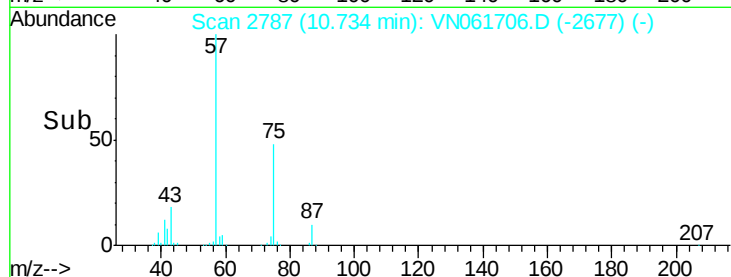
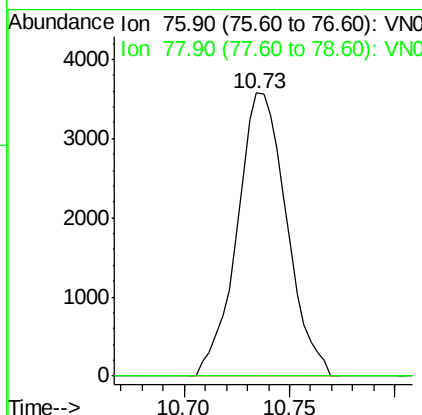
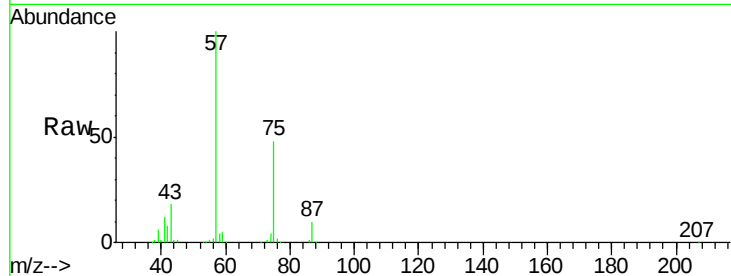




#57
 1,3-Dichloropropane
 Concen: 1.03 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN061706.D
 Acq: 8 Jun 2020 19:15

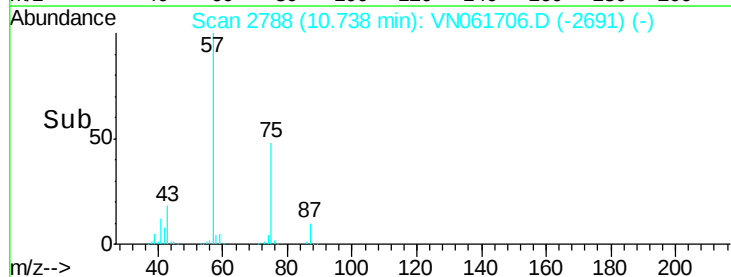
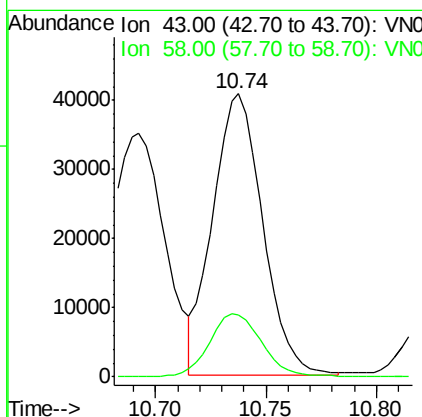
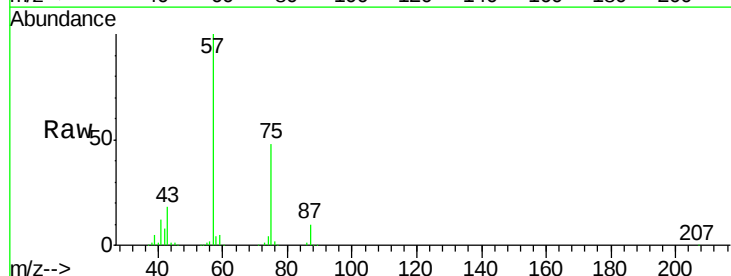
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#01

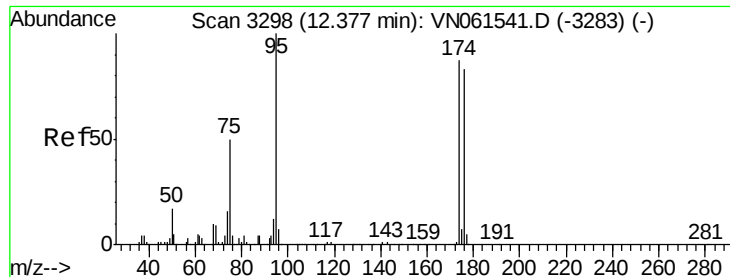
Tgt Ion: 76 Resp: 5824
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 24.71 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN061706.D
 Acq: 8 Jun 2020 19:15

Tgt Ion: 43 Resp: 64128
 Ion Ratio Lower Upper
 43 100
 58 23.4 30.7 92.1#





#62

4-Bromofluorobenzene

Concen: 51.53 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#01

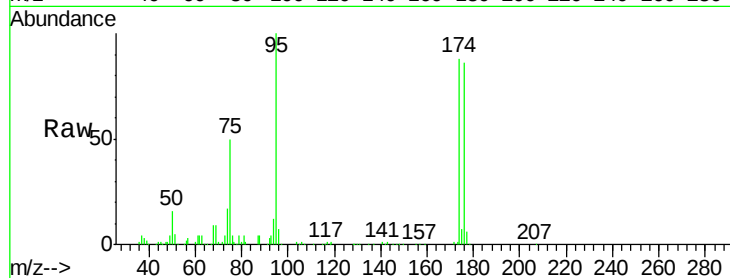
Tgt Ion: 95 Resp: 220953

Ion Ratio Lower Upper

95 100

174 87.3 0.0 172.8

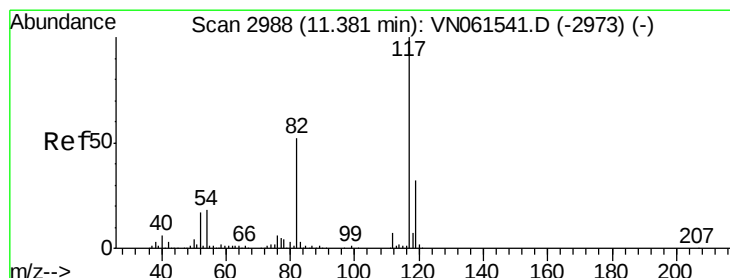
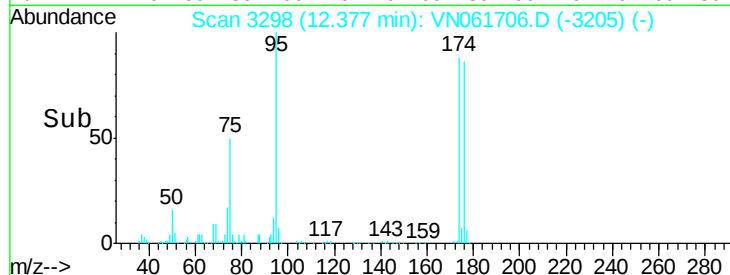
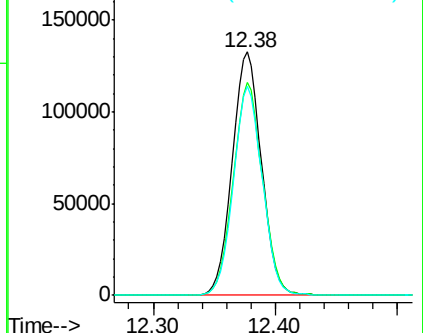
176 84.7 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN

Ion 173.80 (173.50 to 174.50): VN

Ion 175.80 (175.50 to 176.50): VN



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

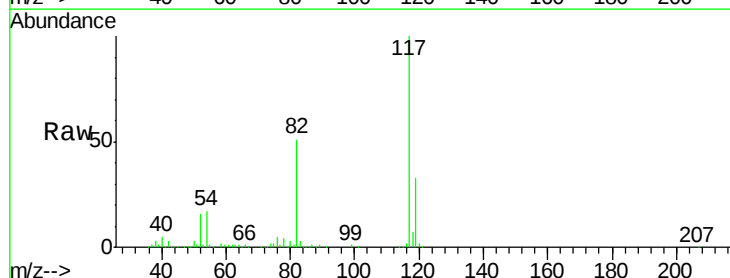
Tgt Ion: 117 Resp: 517018

Ion Ratio Lower Upper

117 100

82 51.3 41.5 62.3

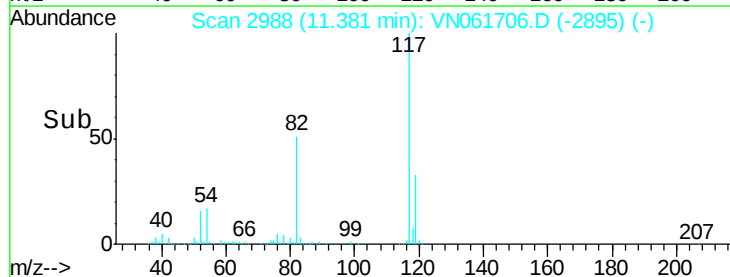
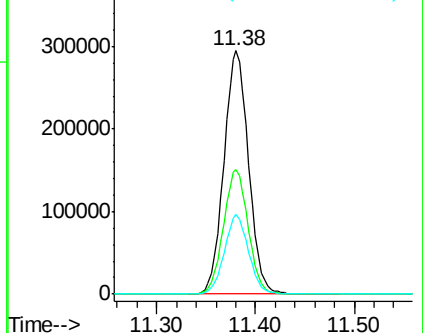
119 32.7 25.6 38.4

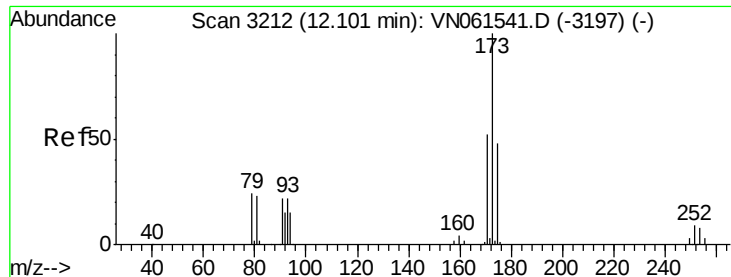


Abundance Ion 116.90 (116.60 to 117.60): VN

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): VN





#71

Bromoform

Concen: 0.61 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#01

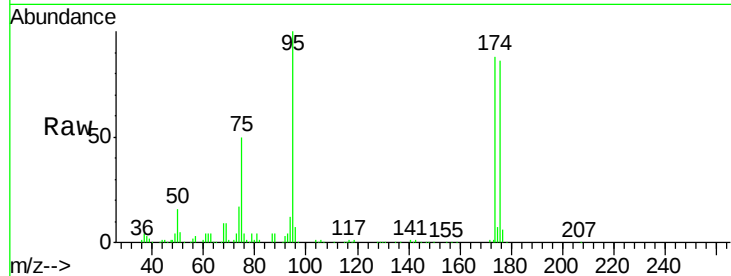
Tgt Ion:173 Resp: 1874

Ion Ratio Lower Upper

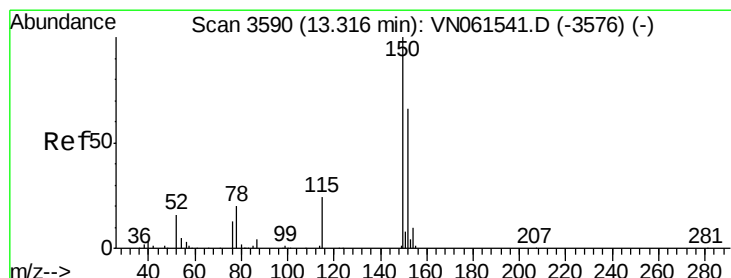
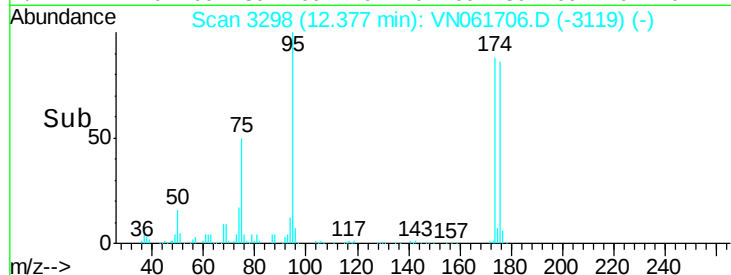
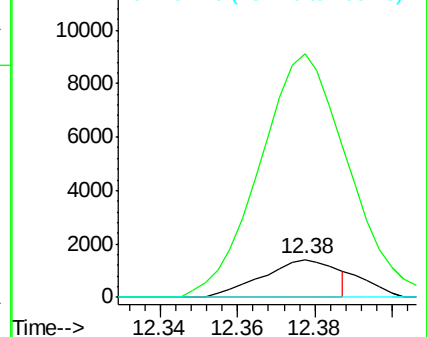
173 100

175 655.3 24.4 73.2#

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: 50.00 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

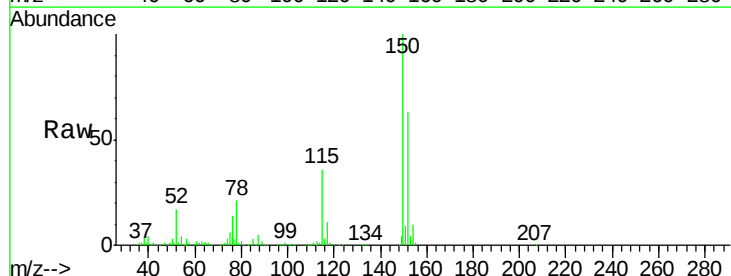
Tgt Ion:152 Resp: 232064

Ion Ratio Lower Upper

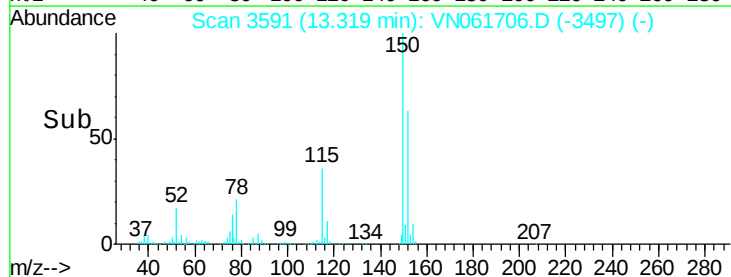
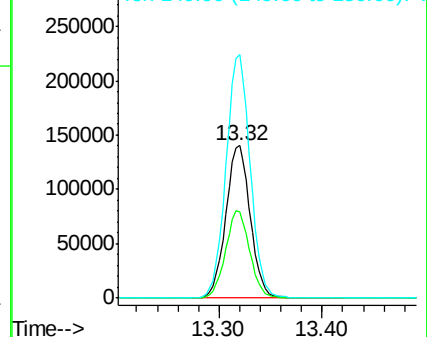
152 100

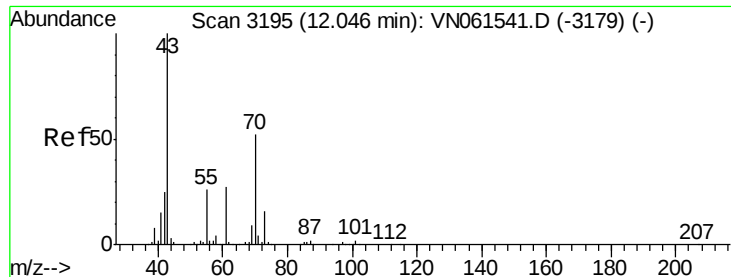
115 56.5 28.0 84.0

150 157.9 0.0 344.0



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-amyI acetate

Concen: 0.49 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061706.D

Acq: 8 Jun 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#01

Tgt Ion: 43 Resp: 2633

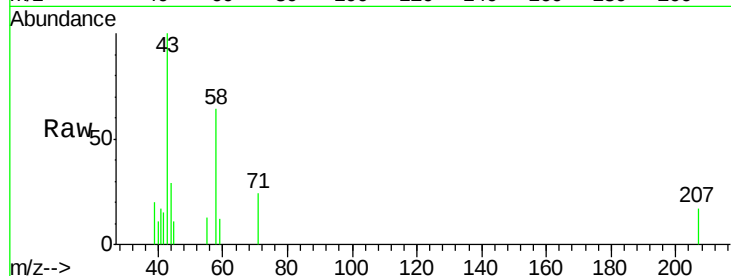
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 4.3 20.6 31.0#

61 0.0 21.8 32.6#

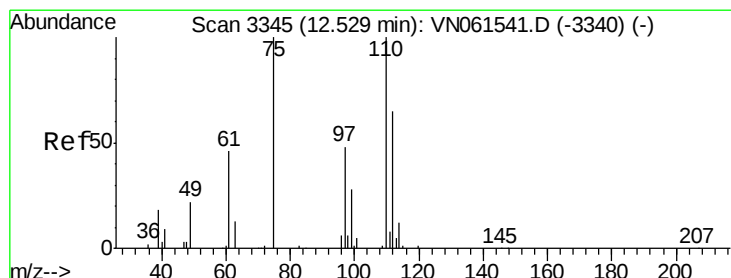
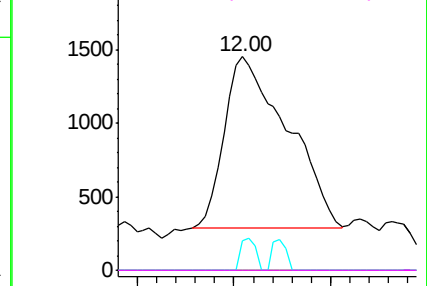
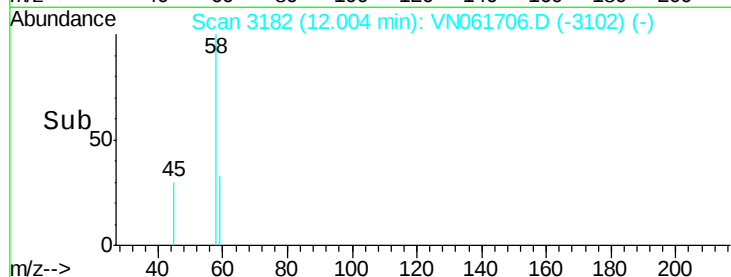


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.92 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061706.D

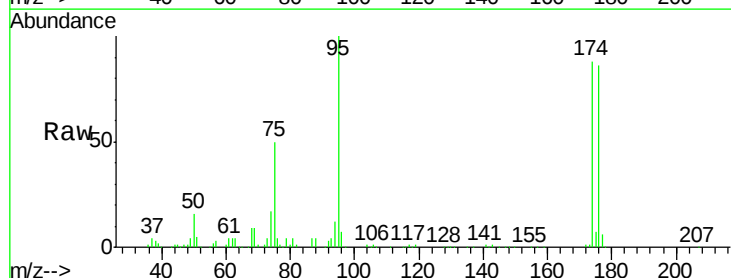
Acq: 8 Jun 2020 19:15

Tgt Ion: 75 Resp: 109373

Ion Ratio Lower Upper

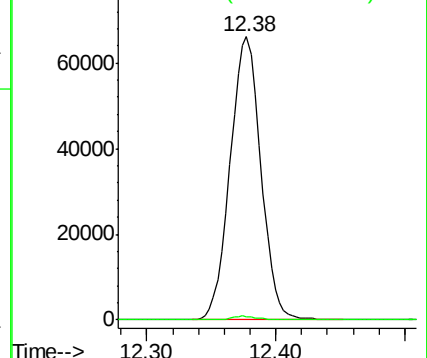
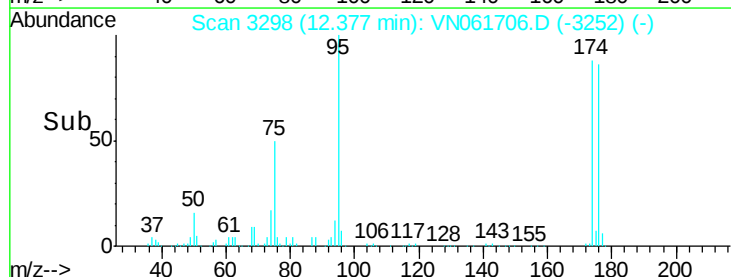
75 100

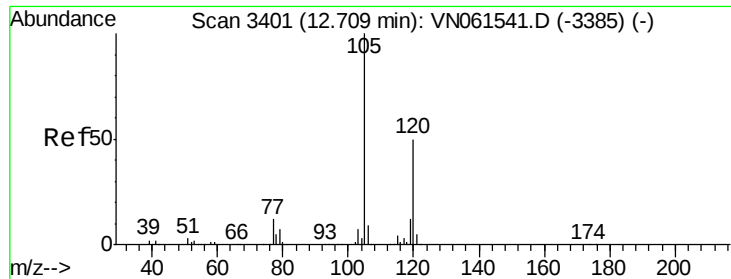
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

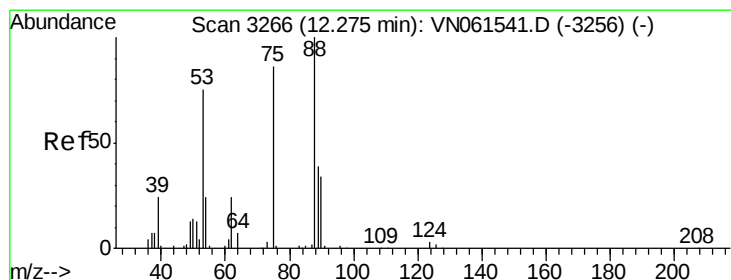
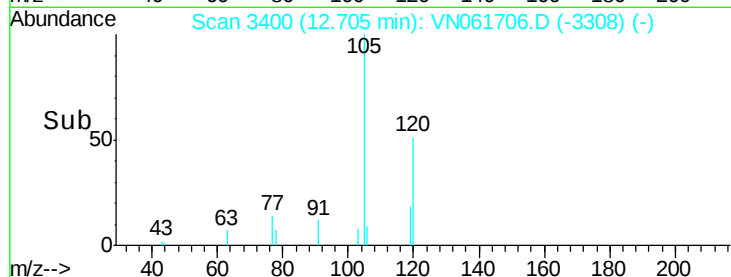
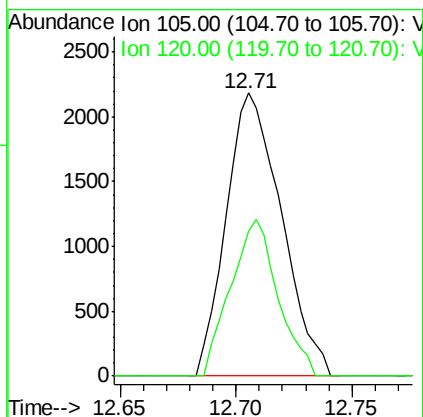
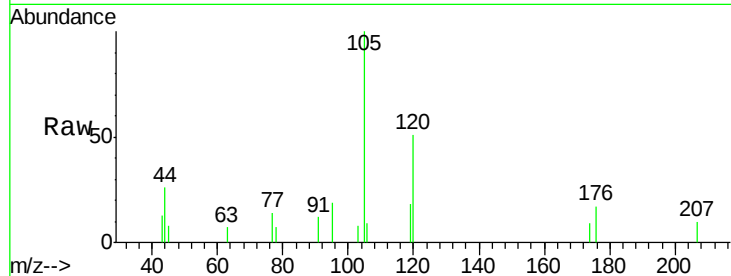




#80
 1,3,5-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 12.71 min Scan# 3400
 Delta R.T. -0.00 min
 Lab File: VN061706.D
 Acq: 8 Jun 2020 19:15

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#01

Tgt Ion: 105 Resp: 3606
 Ion Ratio Lower Upper
 105 100
 120 47.6 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.28 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061706.D
 Acq: 8 Jun 2020 19:15

Tgt Ion: 75 Resp: 109373
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

