

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN060820\
 Data File : VN061709.D
 Acq On : 8 Jun 2020 20:25
 Operator : JC/MD
 Sample : PB129340ZHE#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#04

Quant Time: Jun 09 03:15:25 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	286343	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	495335	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	509123	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	231334	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	165323	48.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.92%	
35) Dibromofluoromethane	7.55	113	129058	51.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.72%	
50) Toluene-d8	10.06	98	609221	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
62) 4-Bromofluorobenzene	12.38	95	218402	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	

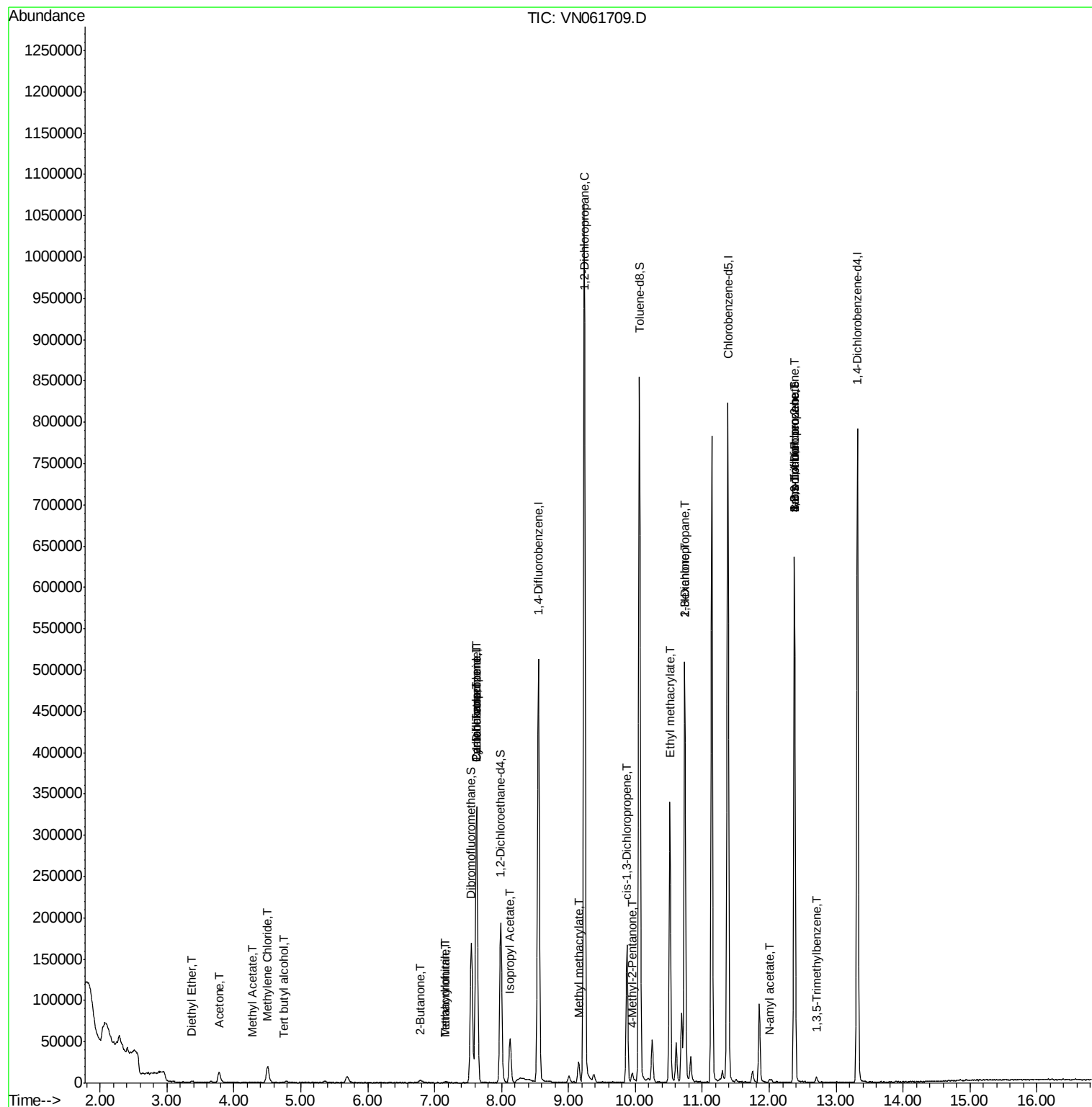
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	749	0.40	ug/l	56
11) Tert butyl alcohol	4.74	59	219	0.48	ug/l #	72
16) Acetone	3.78	43	21783	17.40	ug/l	95
18) Methyl Acetate	4.28	43	1195	0.39	ug/l #	62
20) Methylene Chloride	4.51	84	16812	3.81	ug/l	92
25) 2-Butanone	6.79	43	3829	2.37	ug/l	99
29) Tetrahydrofuran	7.17	42	641	0.60	ug/l #	62
31) Cyclohexane	7.63	56	4592	0.96	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	20144	4.59	ug/l #	47
38) Carbon Tetrachloride	7.63	117	27740	6.56	ug/l #	15
41) Methacrylonitrile	7.17	41	464	0.29	ug/l #	13
43) Isopropyl Acetate	8.13	43	59166	9.31	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1178	0.37	ug/l #	44
48) Methyl methacrylate	9.15	41	3160	1.11	ug/l #	5
51) 4-Methyl-2-Pentanone	9.96	43	7227	2.02	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	34335	6.07	ug/l #	62
56) Ethyl methacrylate	10.51	69	1120	0.23	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5594	0.99	ug/l #	42
59) 2-Hexanone	10.74	43	62636	24.36	ug/l #	50
71) Bromoform	12.37	173	2007	0.66	ug/l #	1
74) N-amyl acetate	12.00	43	1409	0.26	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	107257	25.50	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3624	0.26	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	107257	65.20	ug/l #	15

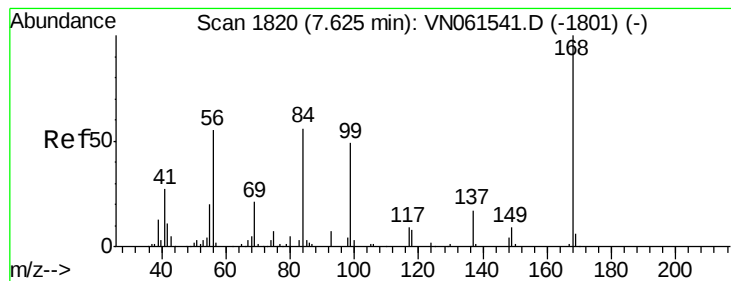
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061709.D

Acq: 8 Jun 2020 20:25

Instrument :

MSVOA_N

ClientSampleId :

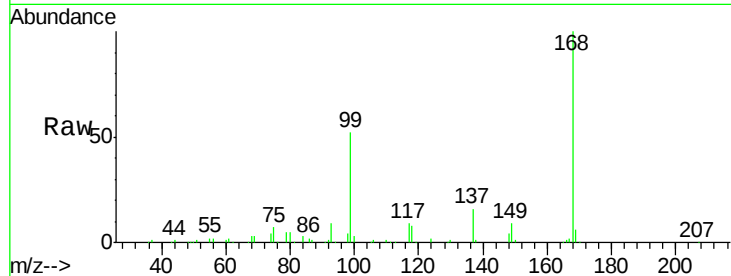
PB129340ZHE#04

Tgt Ion:168 Resp: 286343

Ion Ratio Lower Upper

168 100

99 51.9 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

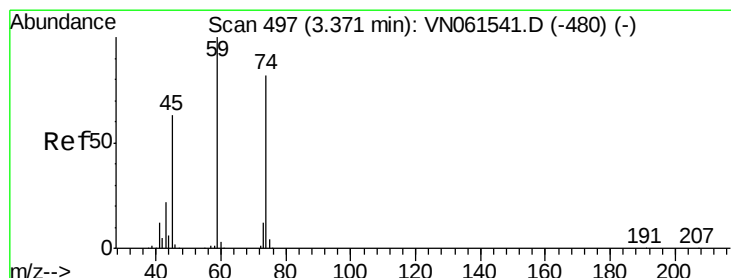
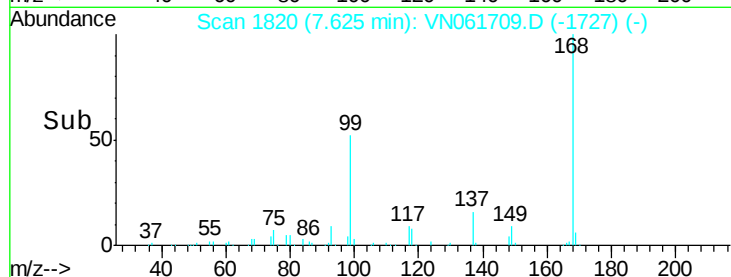
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.40 ug/l

RT: 3.37 min Scan# 496

Delta R.T. -0.00 min

Lab File: VN061709.D

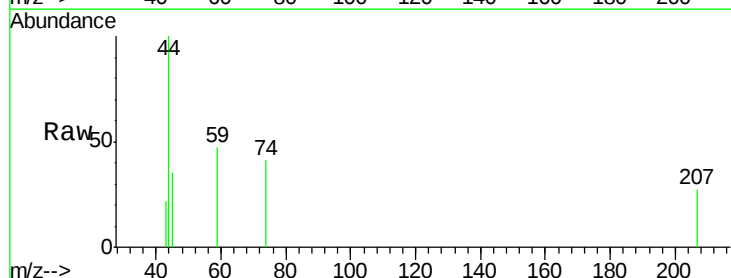
Acq: 8 Jun 2020 20:25

Tgt Ion: 74 Resp: 749

Ion Ratio Lower Upper

74 100

45 41.4 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

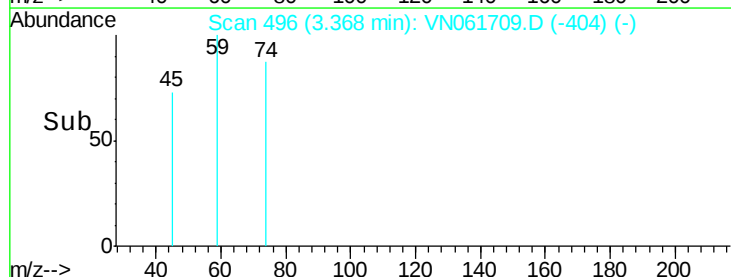
300

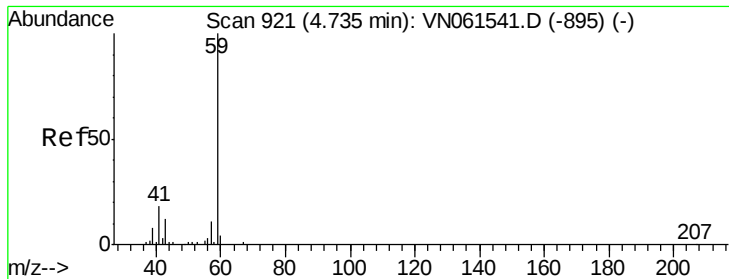
200

100

0

Time--> 3.34 3.36 3.38 3.40



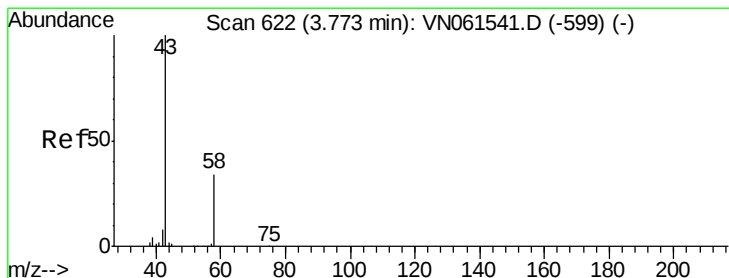
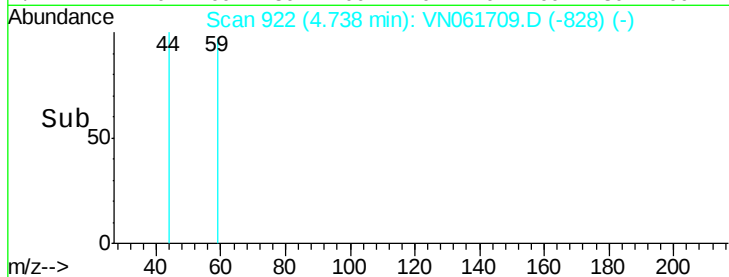
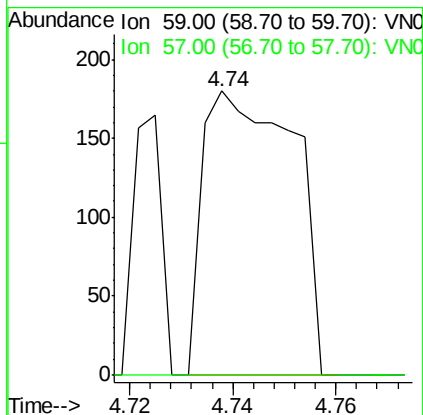
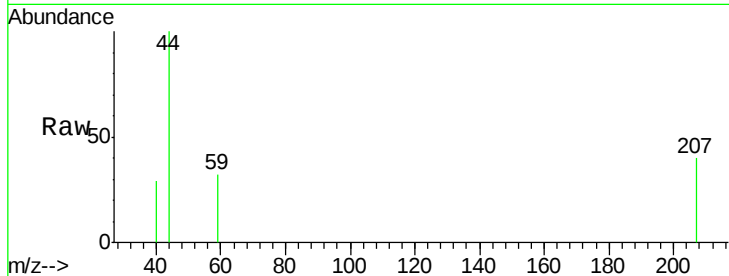


#11

Tert butyl alcohol
 Concen: 0.48 ug/l
 RT: 4.74 min Scan# 922
 Delta R.T. 0.00 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#04

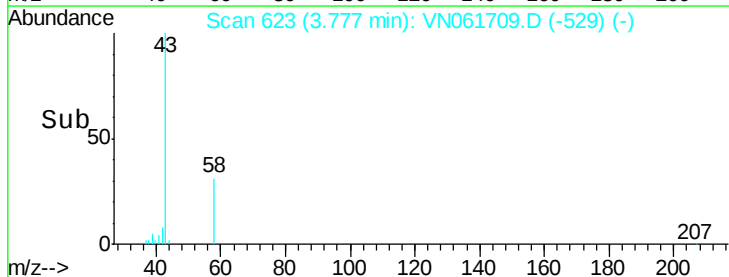
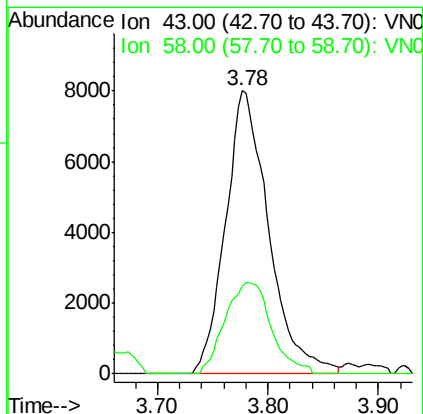
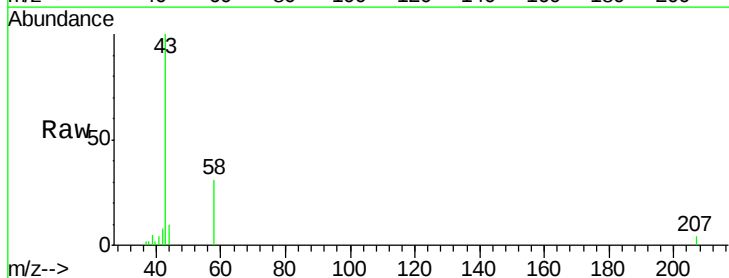
Tgt Ion: 59 Resp: 219
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

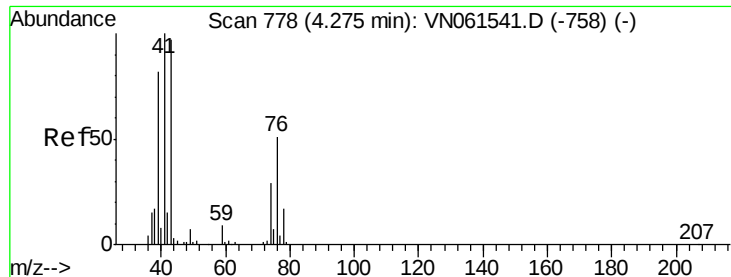


#16

Acetone
 Concen: 17.40 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

Tgt Ion: 43 Resp: 21783
 Ion Ratio Lower Upper
 43 100
 58 30.9 27.2 40.8

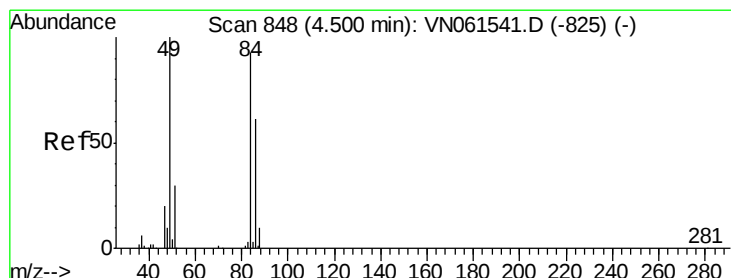
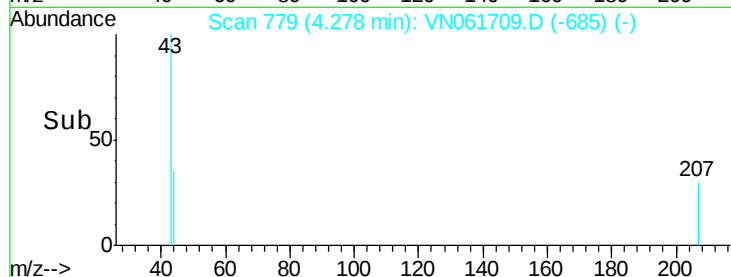
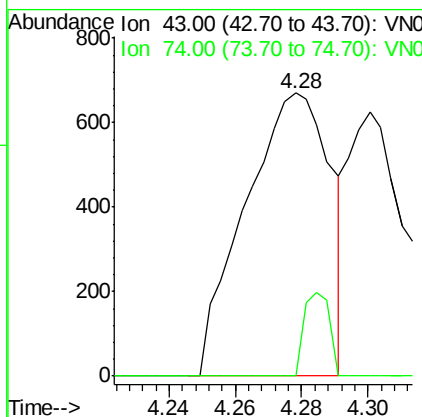
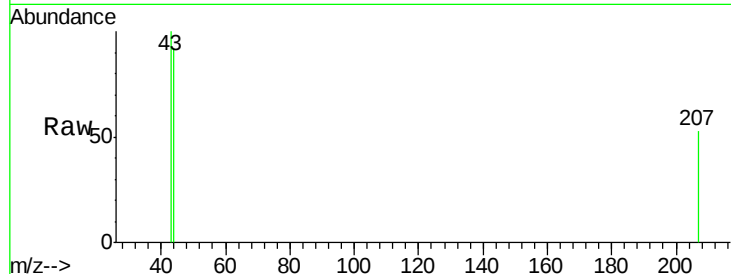




#18
Methyl Acetate
Concen: 0.39 ug/l
RT: 4.28 min Scan# 779
Delta R.T. 0.00 min
Lab File: VN061709.D
Acq: 8 Jun 2020 20:25

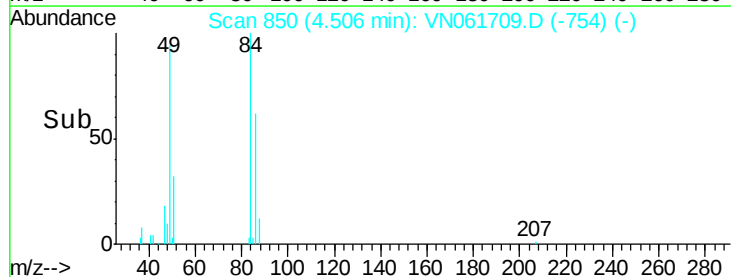
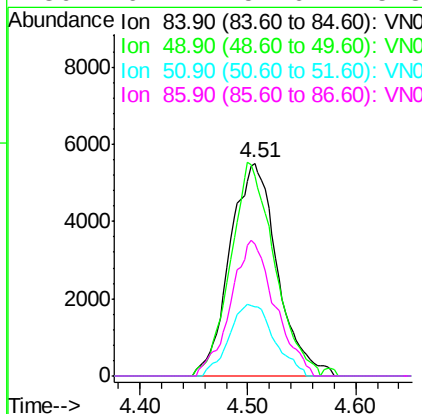
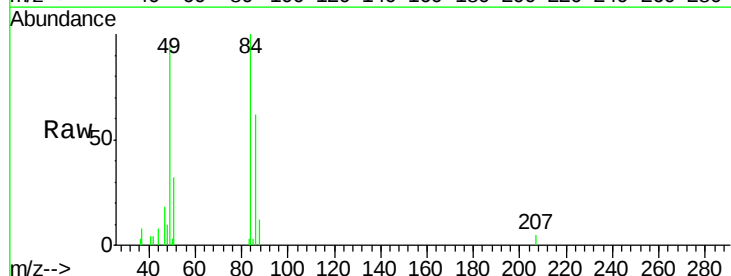
Instrument :
MSVOA_N
ClientSampleId :
PB129340ZHE#04

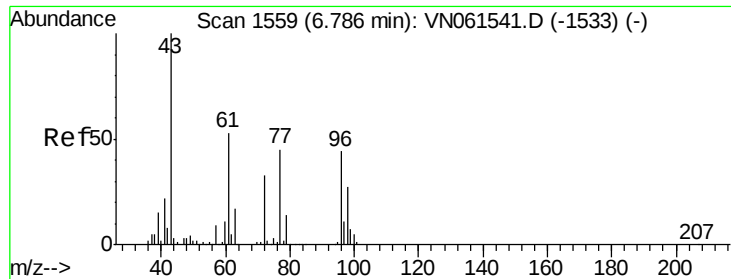
Tgt Ion: 43 Resp: 1195
Ion Ratio Lower Upper
43 100
74 8.9 23.2 34.8#



#20
Methylene Chloride
Concen: 3.81 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061709.D
Acq: 8 Jun 2020 20:25

Tgt Ion: 84 Resp: 16812
Ion Ratio Lower Upper
84 100
49 93.9 85.8 128.8
51 32.4 26.2 39.2
86 61.7 52.6 78.8





#25

2-Butanone

Concen: 2.37 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VN061709.D

Acq: 8 Jun 2020 20:25

Instrument :

MSVOA_N

ClientSampleId :

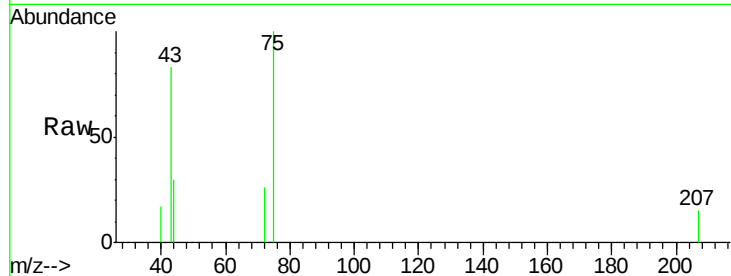
PB129340ZHE#04

Tgt Ion: 43 Resp: 3829

Ion Ratio Lower Upper

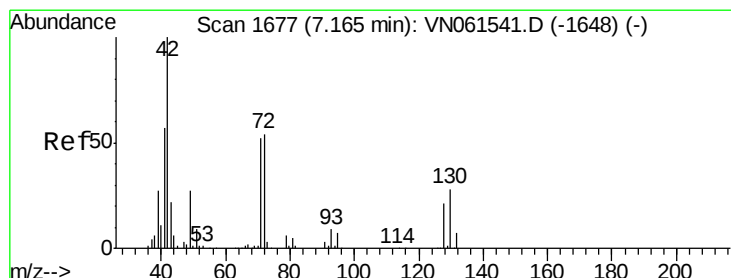
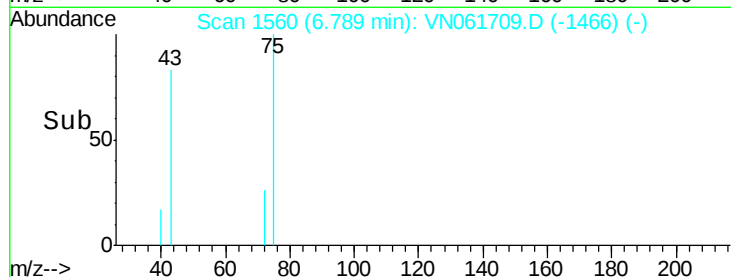
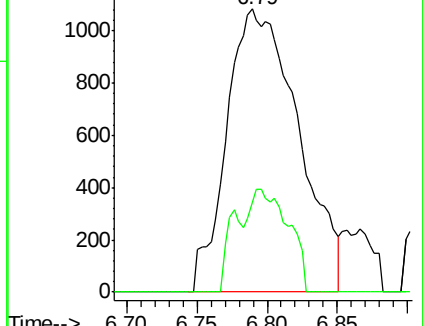
43 100

72 31.9 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN061709.D (-1560) (-)

Ion 72.00 (71.70 to 72.70): VN061709.D (-1560) (-)



#29

Tetrahydrofuran

Concen: 0.60 ug/l

RT: 7.17 min Scan# 1679

Delta R.T. 0.01 min

Lab File: VN061709.D

Acq: 8 Jun 2020 20:25

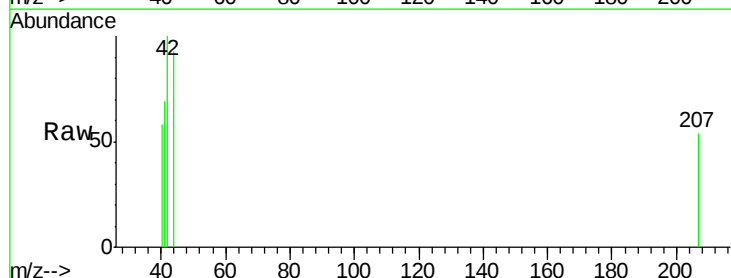
Tgt Ion: 42 Resp: 641

Ion Ratio Lower Upper

42 100

72 35.9 43.6 65.4#

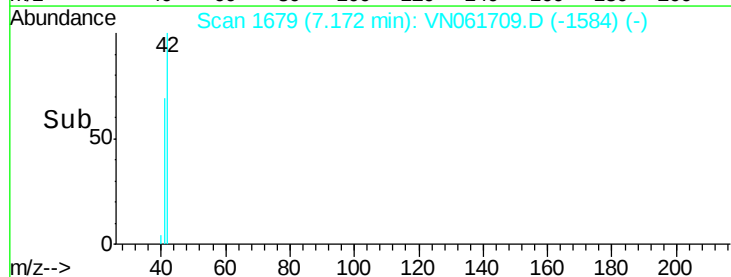
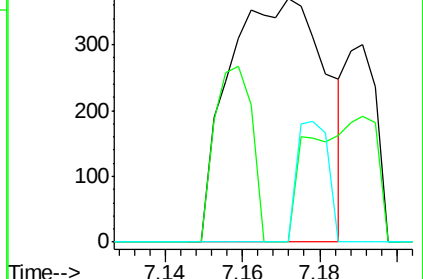
71 15.9 41.2 61.8#

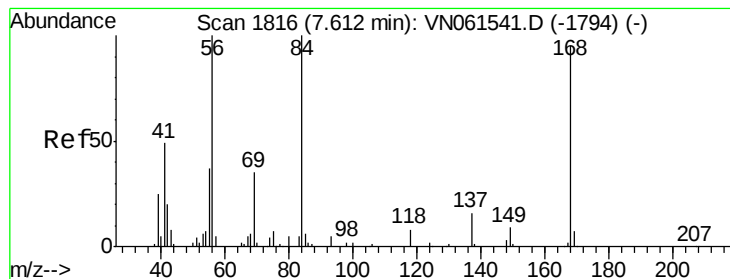


Abundance Ion 42.00 (41.70 to 42.70): VN061709.D (-1677) (-)

Ion 72.00 (71.70 to 72.70): VN061709.D (-1677) (-)

Ion 71.00 (70.70 to 71.70): VN061709.D (-1677) (-)





#31

Cyclohexane

Concen: 0.96 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061709.D

Acq: 8 Jun 2020 20:25

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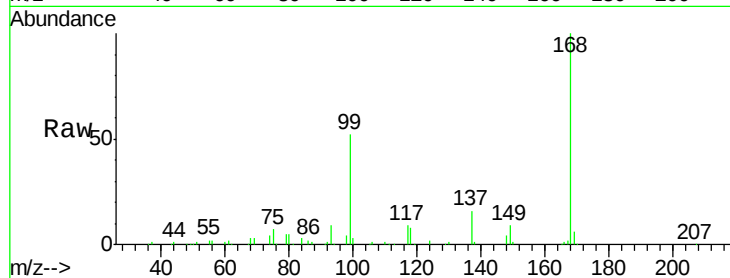
Tgt Ion: 56 Resp: 4592

Ion Ratio Lower Upper

56 100

69 187.2 27.8 41.8#

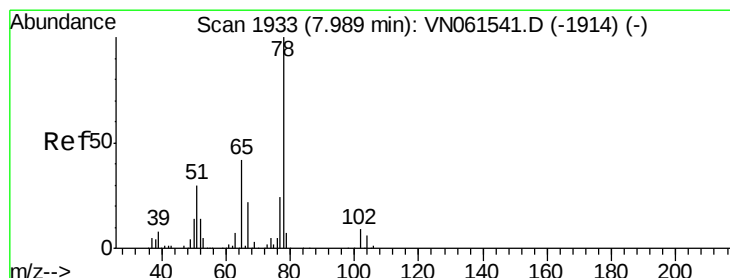
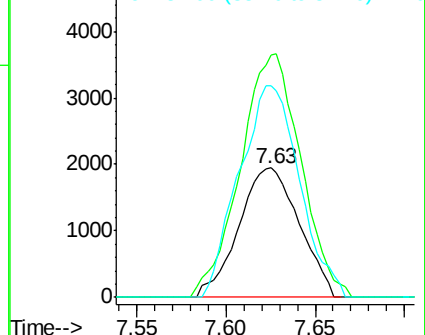
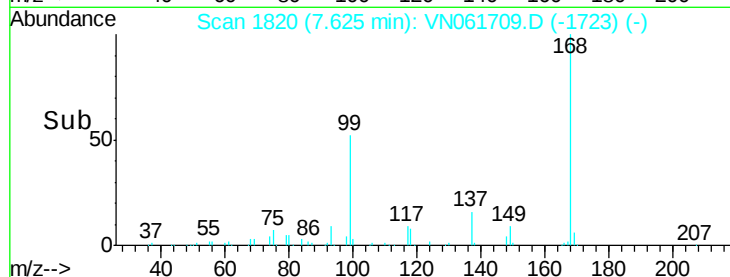
84 163.9 79.9 119.9#



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: 48.46 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061709.D

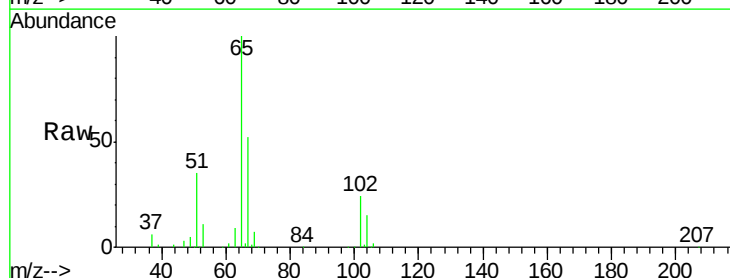
Acq: 8 Jun 2020 20:25

Tgt Ion: 65 Resp: 165323

Ion Ratio Lower Upper

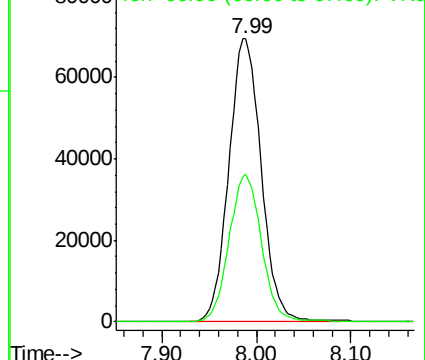
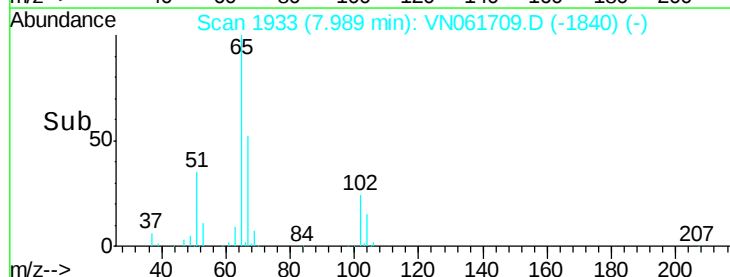
65 100

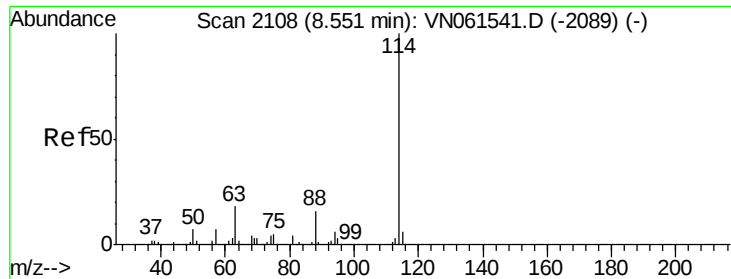
67 51.9 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

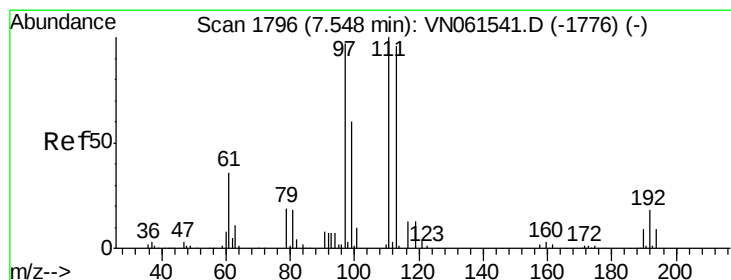
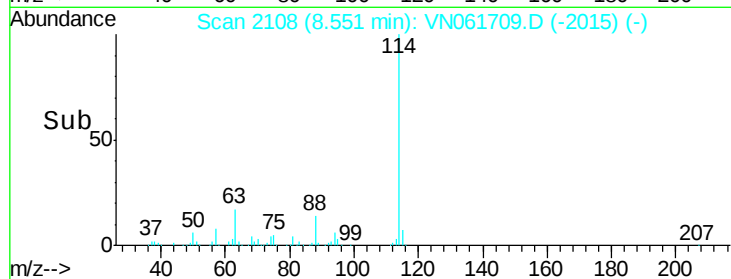
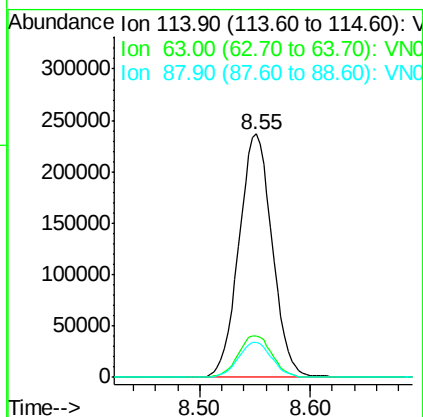
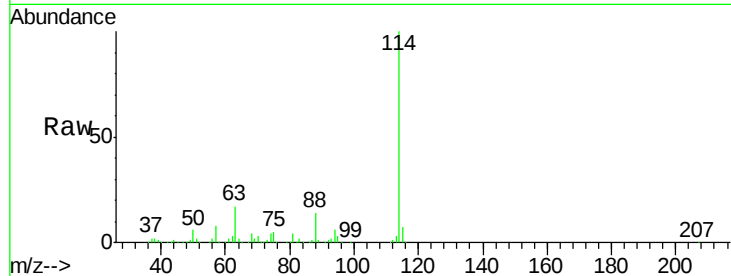




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

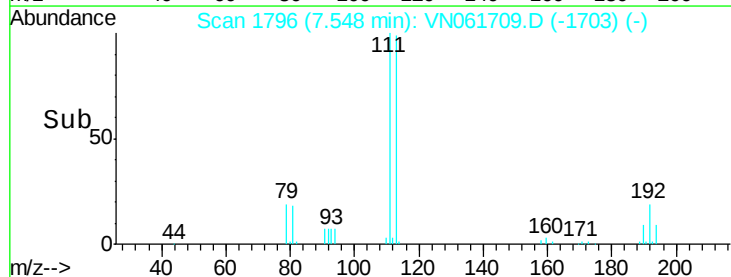
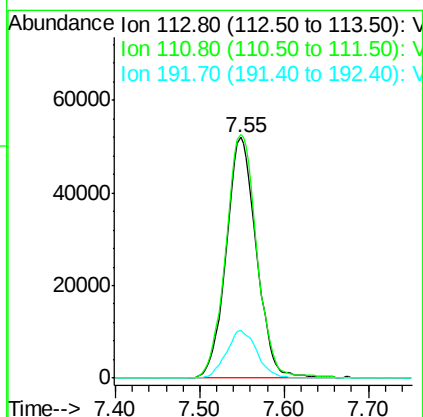
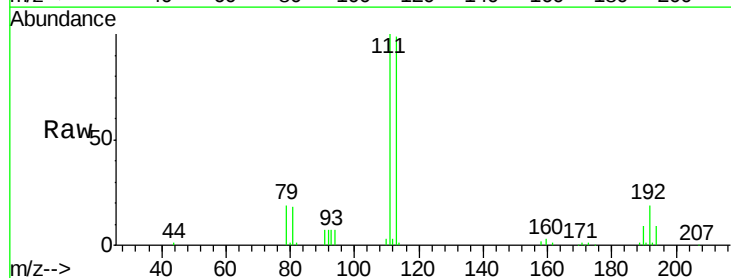
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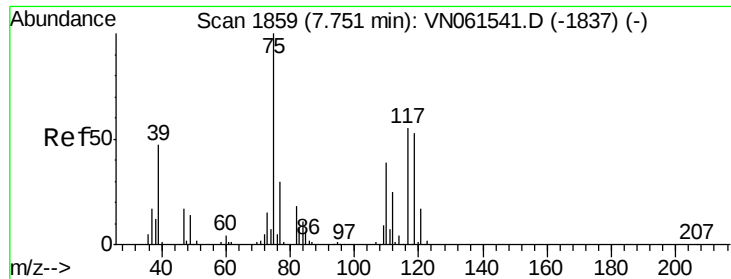
Tgt Ion	Ratio	Lower	Upper
114	100		
63	17.2	0.0	35.8
88	14.4	0.0	31.0



#35
 Dibromofluoromethane
 Concen: 51.36 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.4	125.0
192	20.1	15.4	23.2

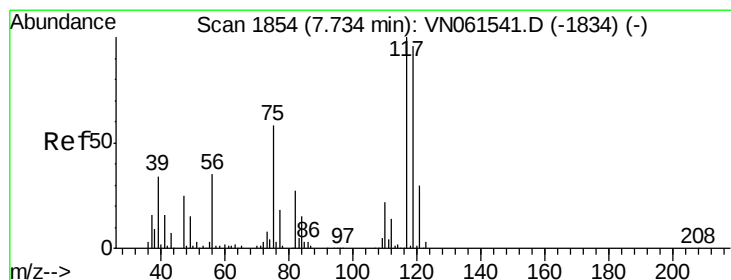
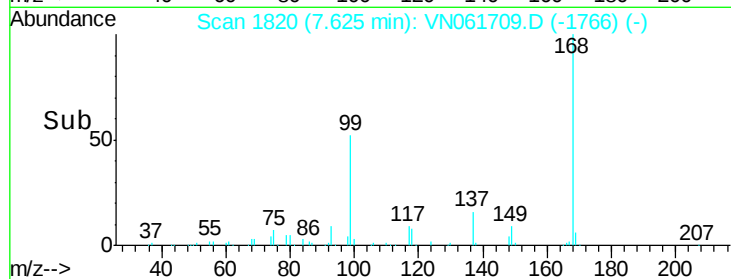
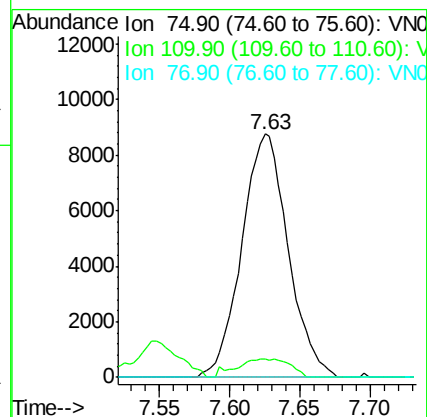
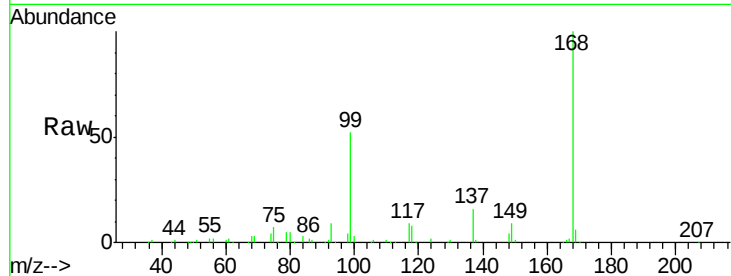




#36
 1,1-Dichloropropene
 Concen: 4.59 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

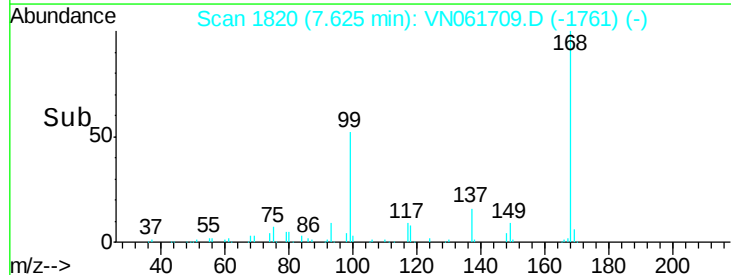
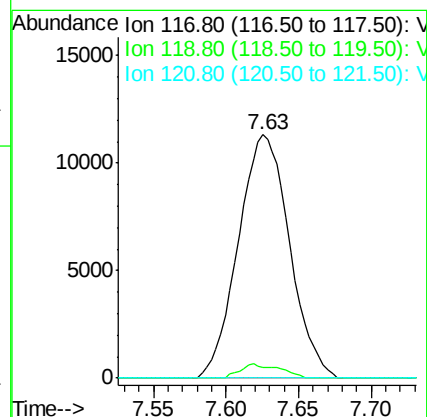
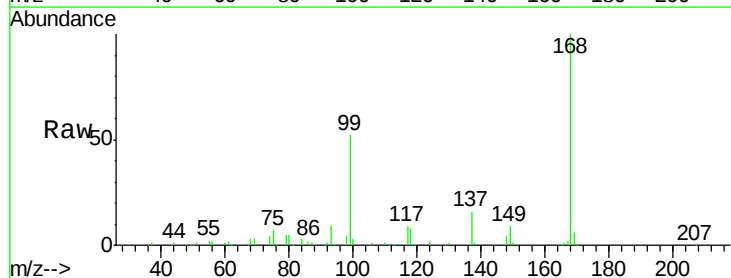
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#04

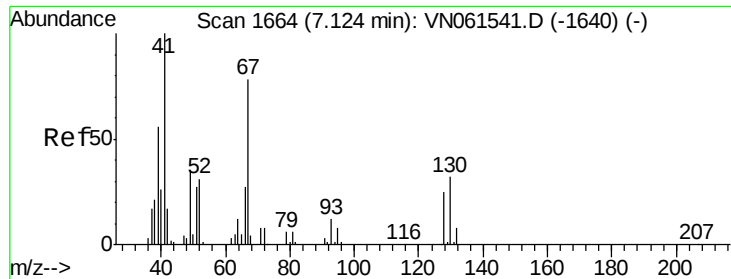
Tgt Ion: 75 Resp: 20144
 Ion Ratio Lower Upper
 75 100
 110 8.6 19.5 58.5#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.56 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

Tgt Ion: 117 Resp: 27740
 Ion Ratio Lower Upper
 117 100
 119 4.2 76.5 114.7#
 121 0.0 24.1 36.1#

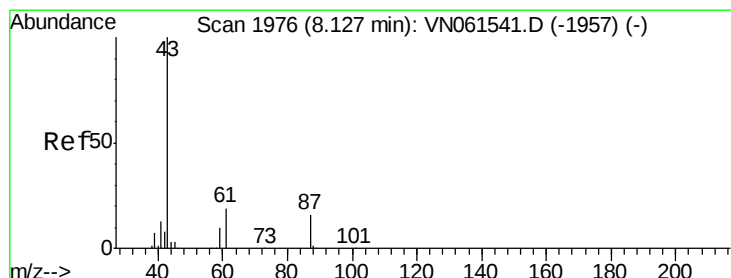
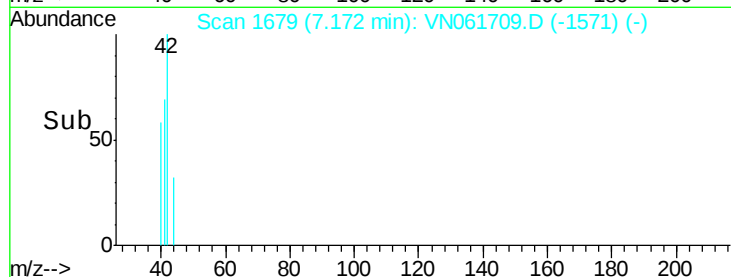
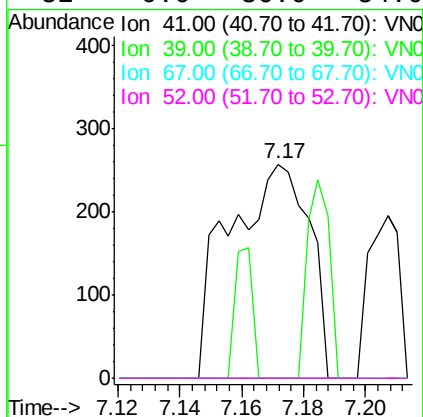
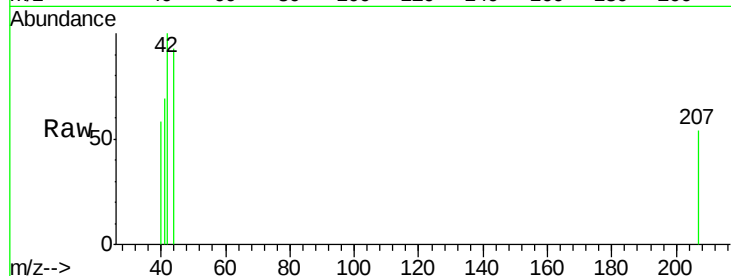




#41
Methacrylonitrile
Concen: 0.29 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.05 min
Lab File: VN061709.D
Acq: 8 Jun 2020 20:25

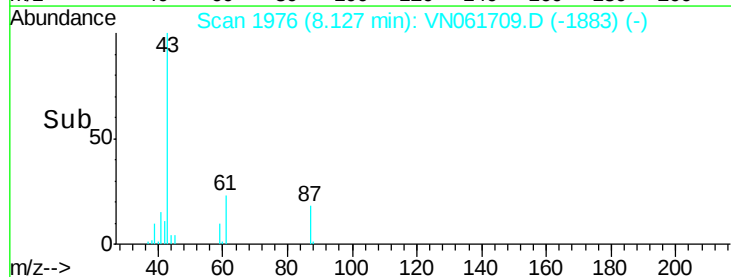
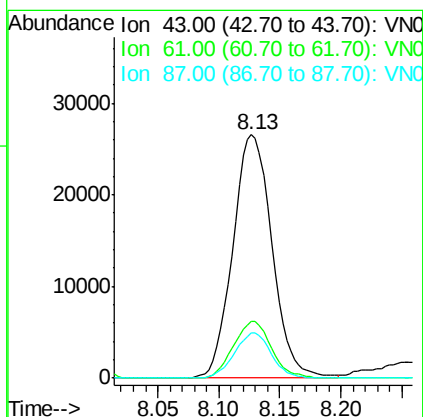
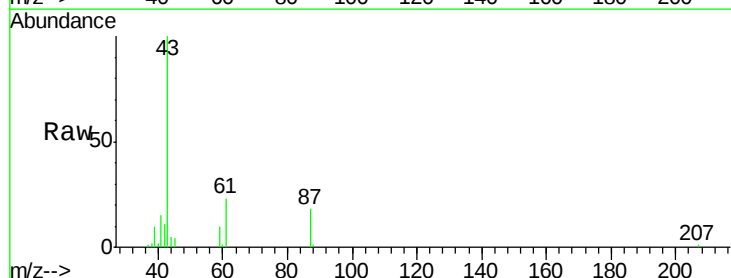
Instrument :
MSVOA_N
ClientSampleId :
PB129340ZHE#04

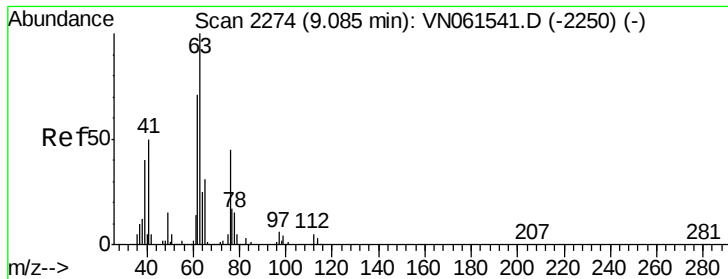
Tgt Ion: 41 Resp: 464
Ion Ratio Lower Upper
41 100
39 12.9 53.8 80.6#
67 0.0 91.1 136.7#
52 0.0 36.0 54.0#



#43
Isopropyl Acetate
Concen: 9.31 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061709.D
Acq: 8 Jun 2020 20:25

Tgt Ion: 43 Resp: 59166
Ion Ratio Lower Upper
43 100
61 22.4 23.6 35.4#
87 17.3 13.0 19.6





#45

1,2-Dichloropropane

Concen: 0.37 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN061709.D

Acq: 8 Jun 2020 20:25

Instrument :

MSVOA_N

ClientSampleId :

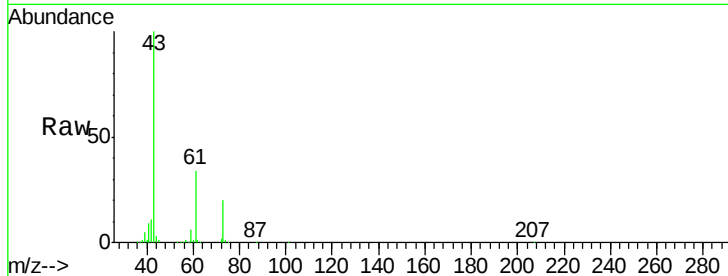
PB129340ZHE#04

Tgt Ion: 63 Resp: 1178

Ion Ratio Lower Upper

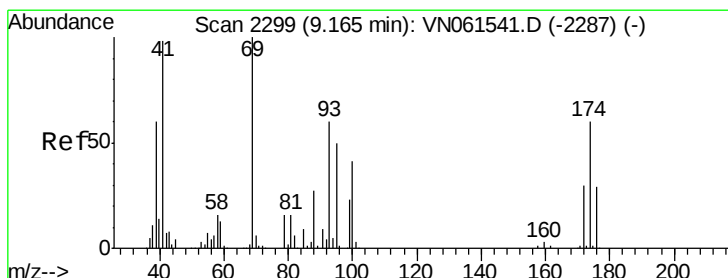
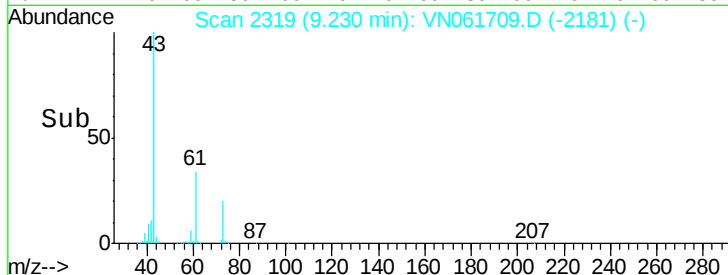
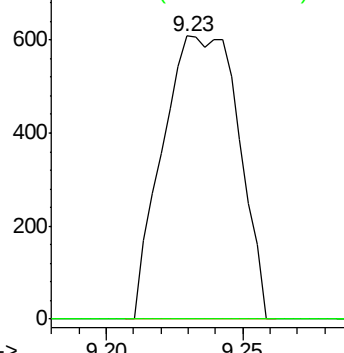
63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.11 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN061709.D

Acq: 8 Jun 2020 20:25

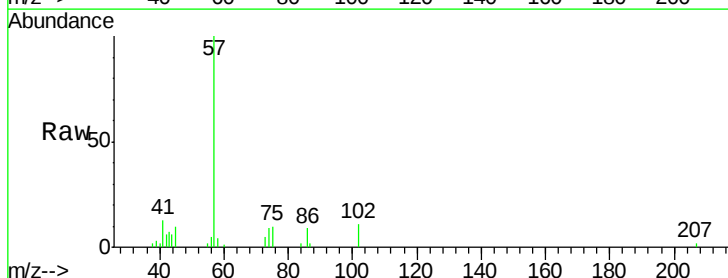
Tgt Ion: 41 Resp: 3160

Ion Ratio Lower Upper

41 100

69 0.0 83.9 125.9#

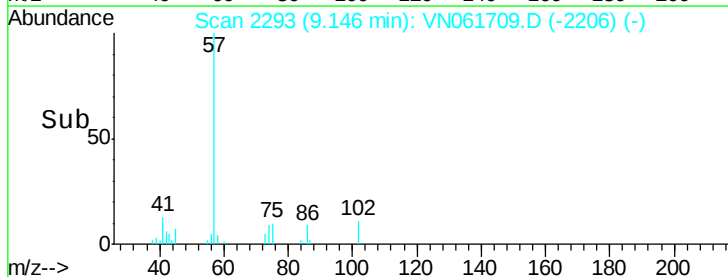
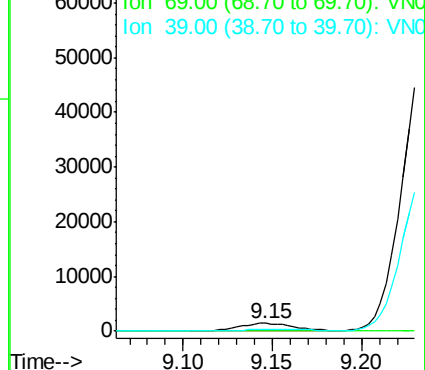
39 0.0 52.1 78.1#

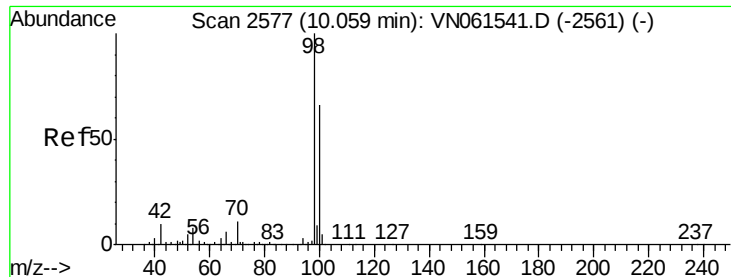


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 52.32 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061709.D

Acq: 8 Jun 2020 20:25

Instrument :

MSVOA_N

ClientSampleId :

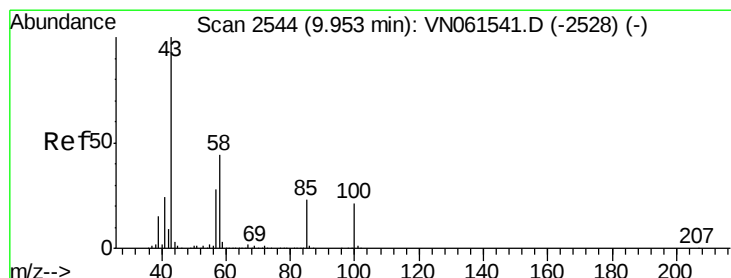
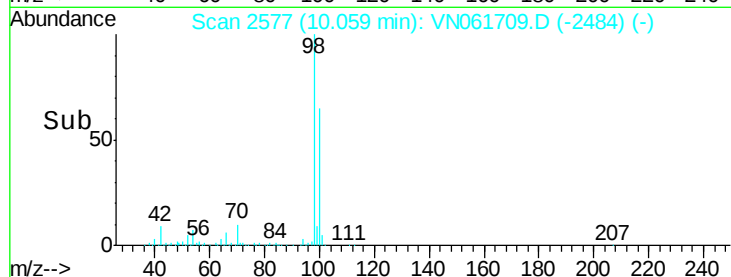
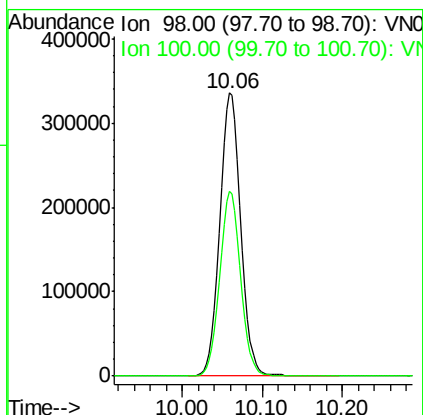
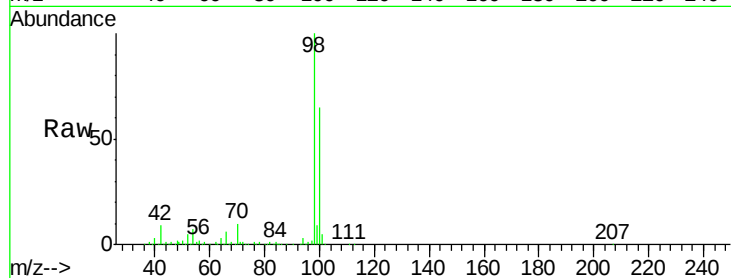
PB129340ZHE#04

Tgt Ion: 98 Resp: 609221

Ion Ratio Lower Upper

98 100

100 65.3 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 2.02 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061709.D

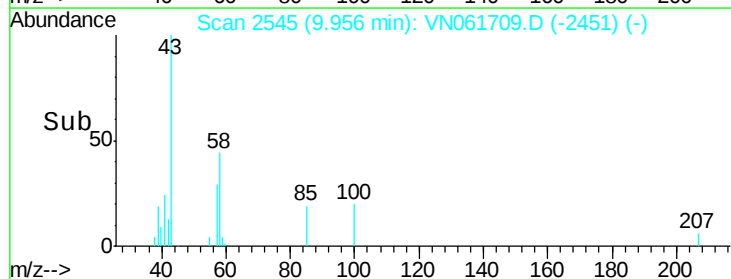
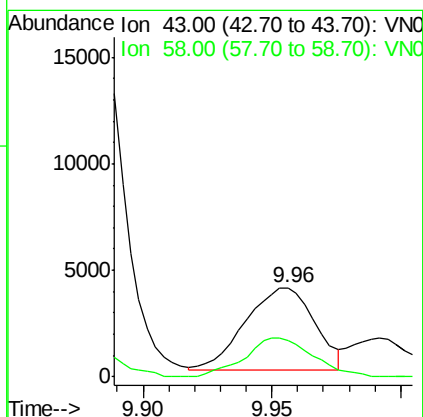
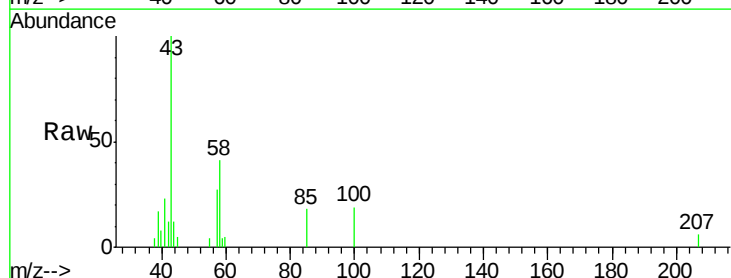
Acq: 8 Jun 2020 20:25

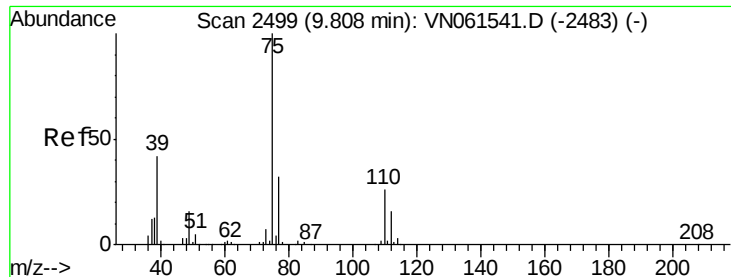
Tgt Ion: 43 Resp: 7227

Ion Ratio Lower Upper

43 100

58 46.7 35.0 52.6

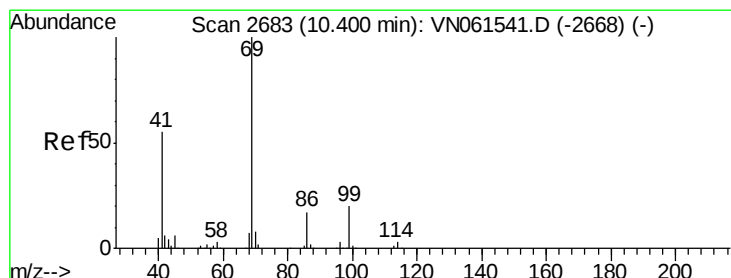
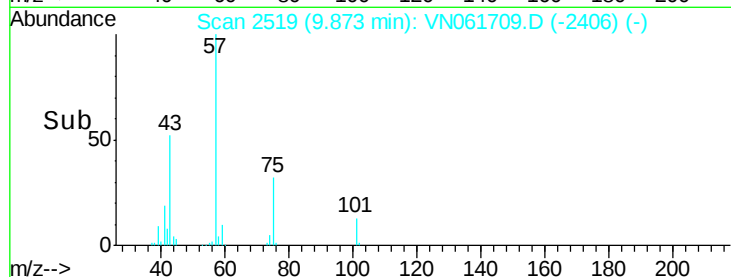
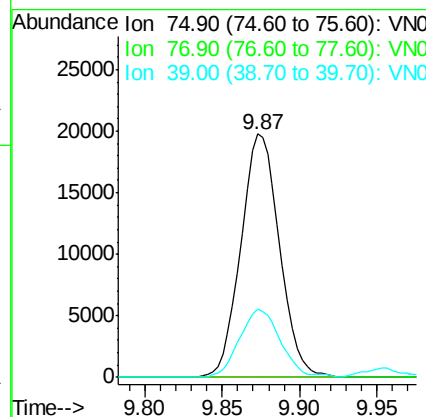
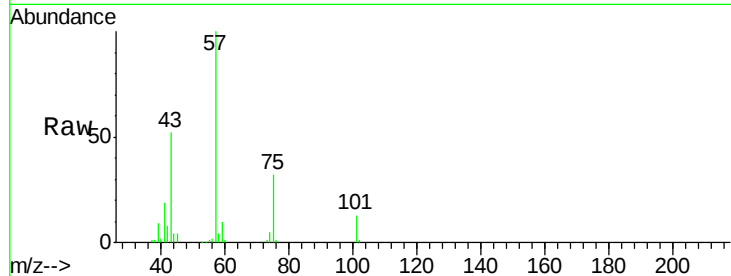




#54
 cis-1,3-Dichloropropene
 Concen: 6.07 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

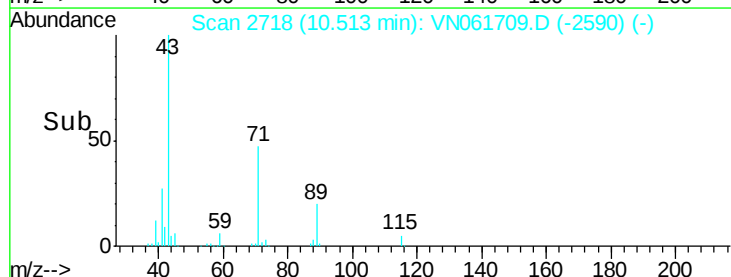
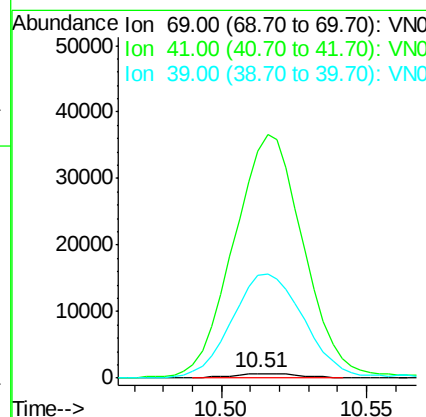
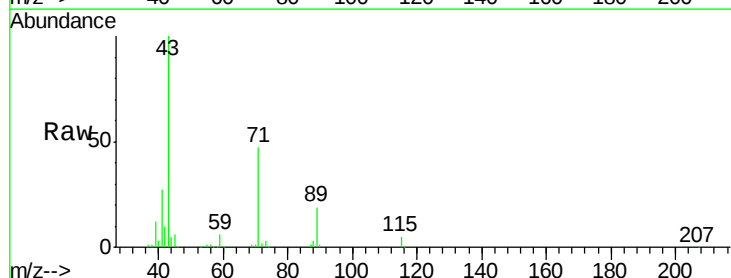
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#04

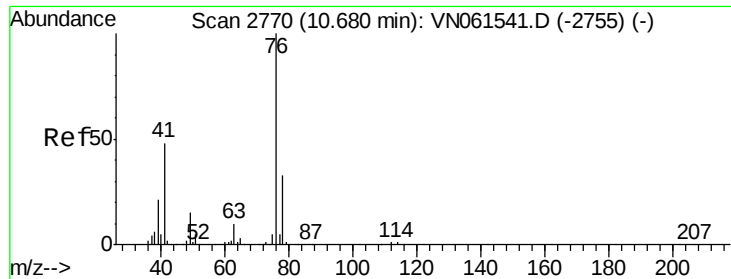
Tgt Ion: 75 Resp: 34335
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 27.8 33.8 50.6#



#56
 Ethyl methacrylate
 Concen: 0.23 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

Tgt Ion: 69 Resp: 1120
 Ion Ratio Lower Upper
 69 100
 41 5521.2 43.5 65.3#
 39 2431.2 27.0 40.6#

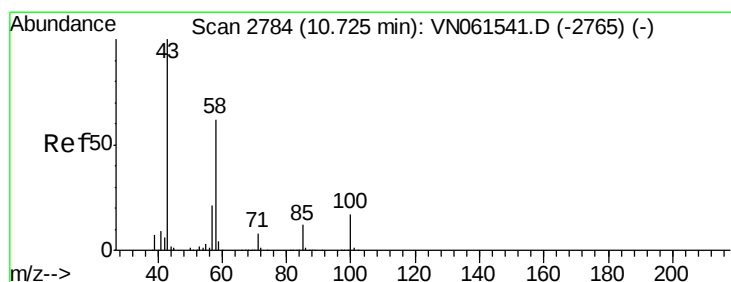
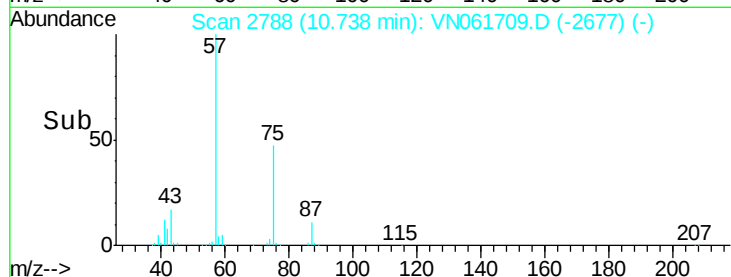
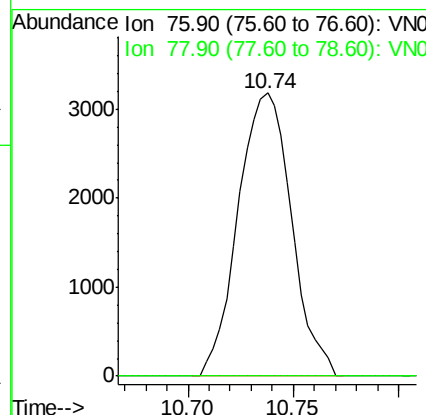
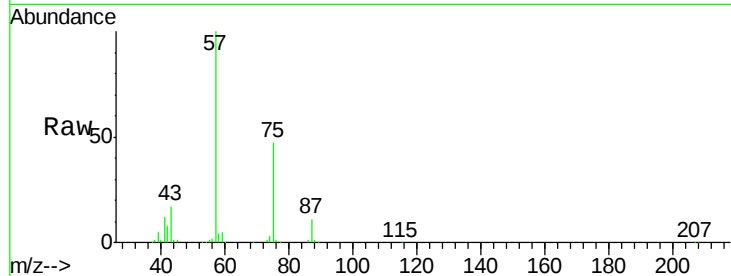




#57
 1,3-Dichloropropane
 Concen: 0.99 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

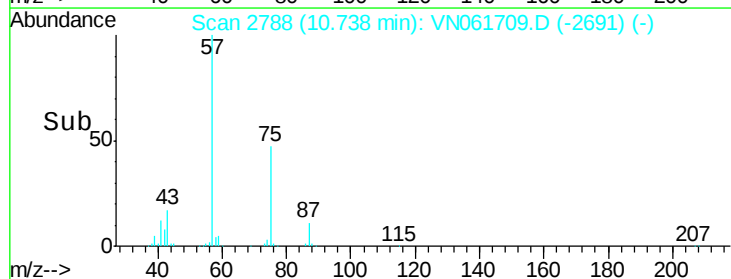
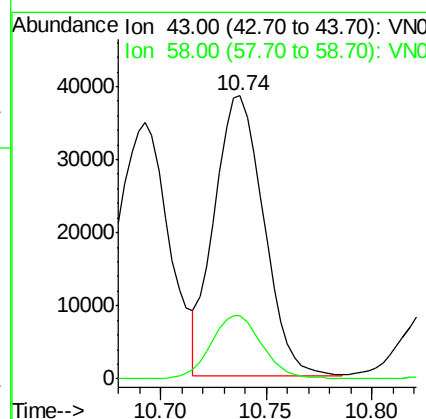
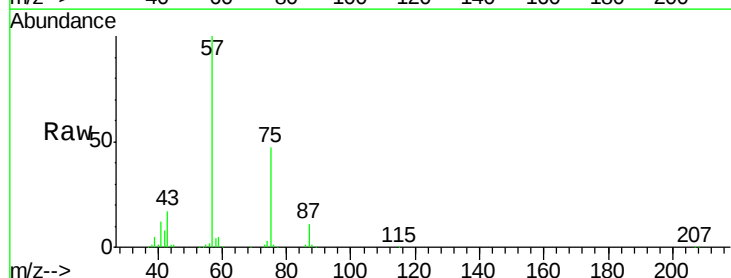
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#04

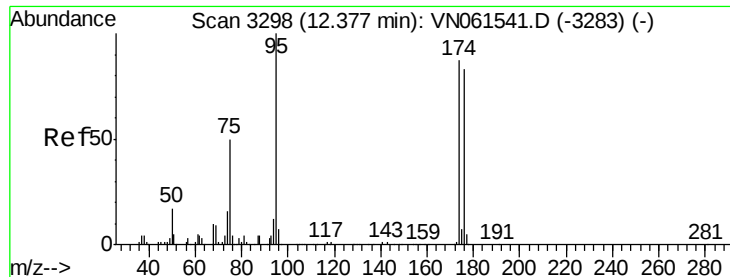
Tgt Ion: 76 Resp: 5594
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 24.36 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

Tgt Ion: 43 Resp: 62636
 Ion Ratio Lower Upper
 43 100
 58 23.3 30.7 92.1#

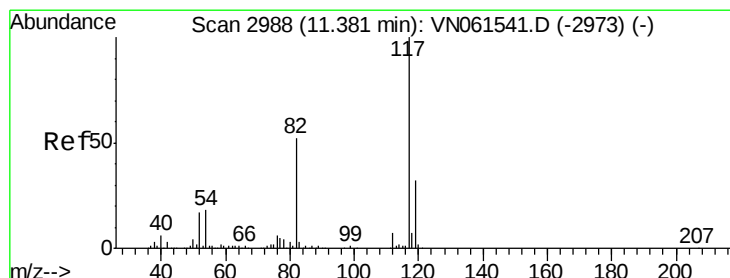
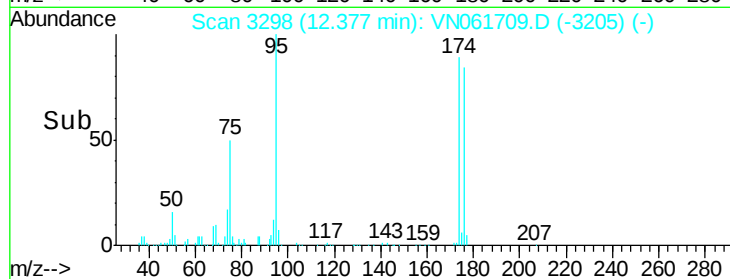
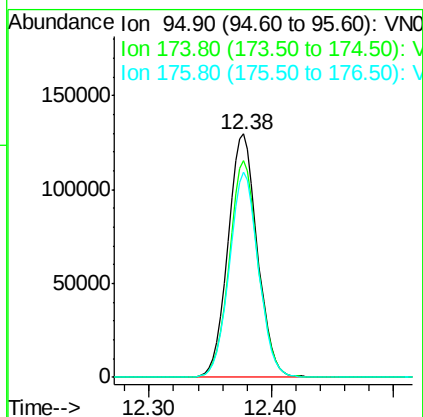
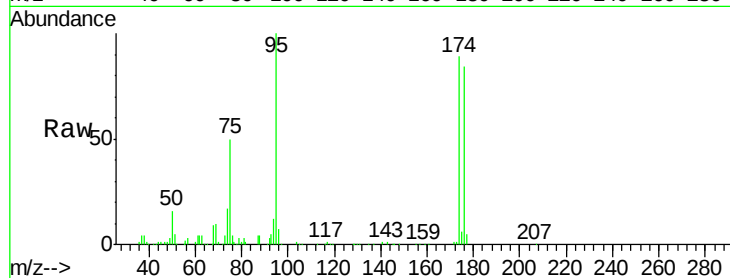




#62
4-Bromofluorobenzene
Concen: 51.41 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061709.D
Acq: 8 Jun 2020 20:25

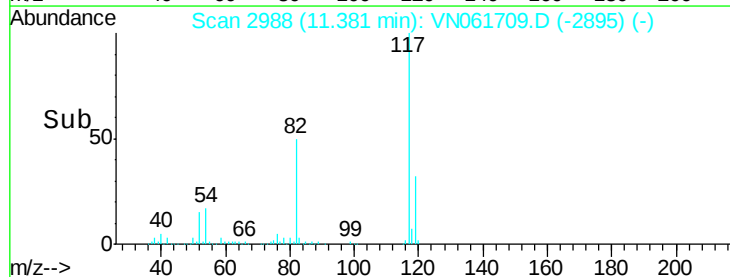
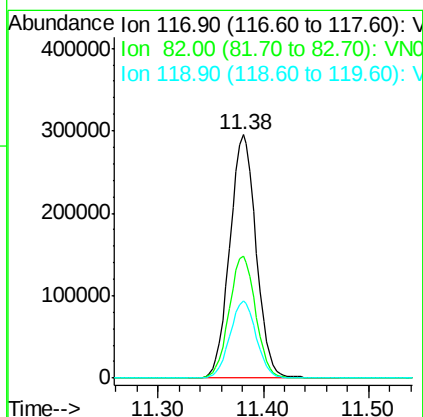
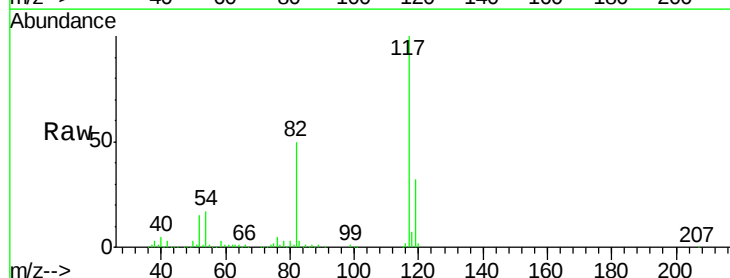
Instrument :
MSVOA_N
ClientSampleId :
PB129340ZHE#04

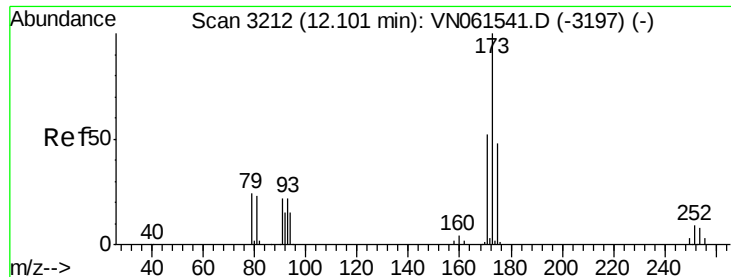
Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.3	0.0	172.8
176	83.1	0.0	164.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061709.D
Acq: 8 Jun 2020 20:25

Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.2	41.5	62.3
119	31.5	25.6	38.4





#71

Bromoform

Concen: 0.66 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061709.D

Acq: 8 Jun 2020 20:25

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#04

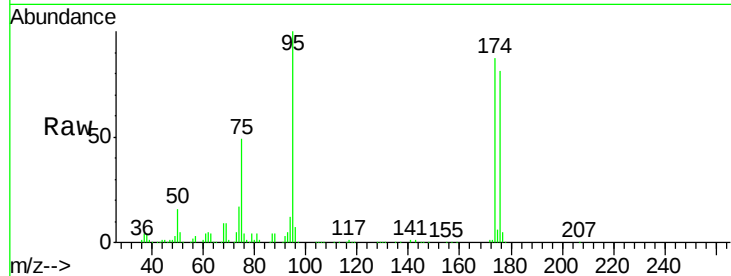
Tgt Ion:173 Resp: 2007

Ion Ratio Lower Upper

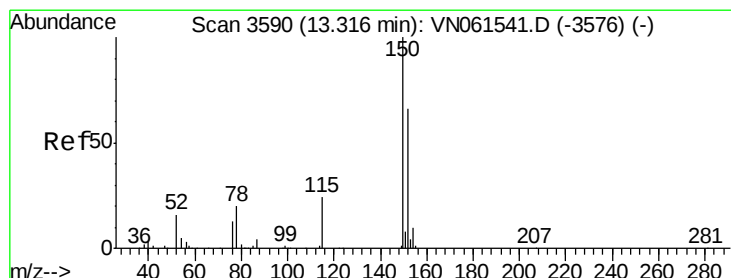
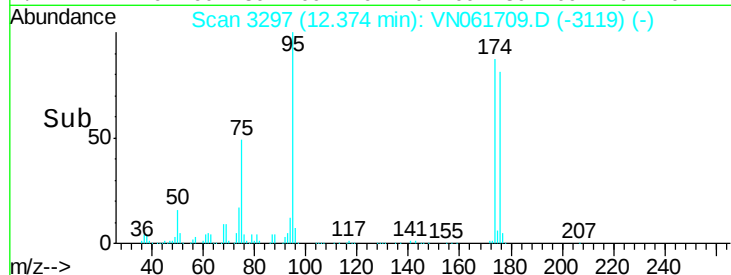
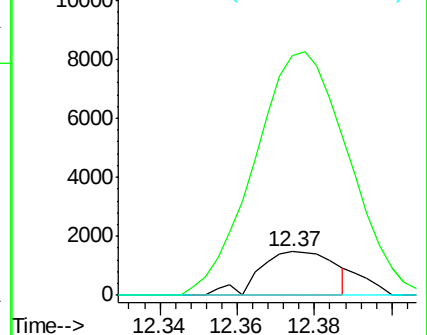
173 100

175 595.2 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: VN061709.D

Acq: 8 Jun 2020 20:25

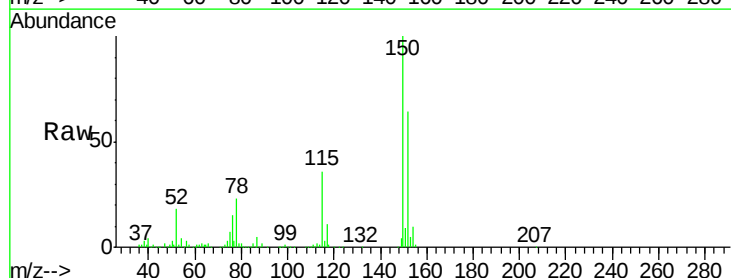
Tgt Ion:152 Resp: 231334

Ion Ratio Lower Upper

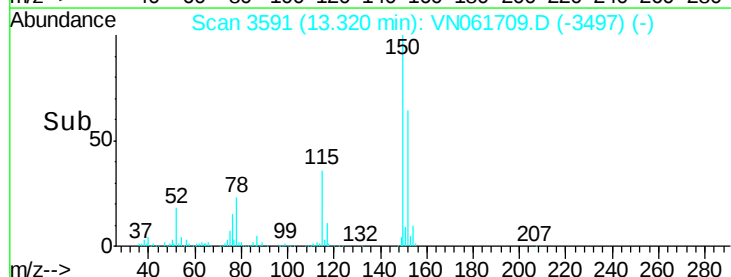
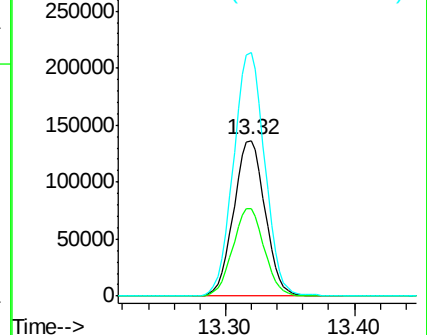
152 100

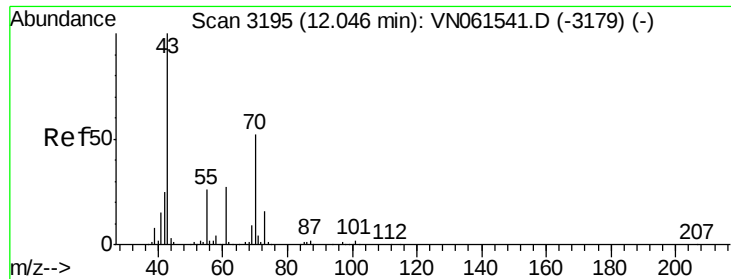
115 56.4 28.0 84.0

150 155.7 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: 0.26 ug/l

RT: 12.00 min Scan# 3181

Delta R.T. -0.04 min

Lab File: VN061709.D

Acq: 8 Jun 2020 20:25

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#04

Tgt Ion: 43 Resp: 1409

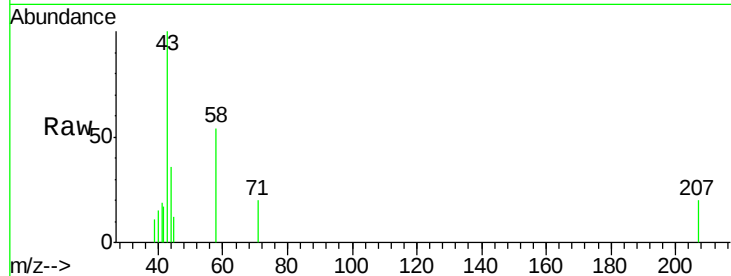
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

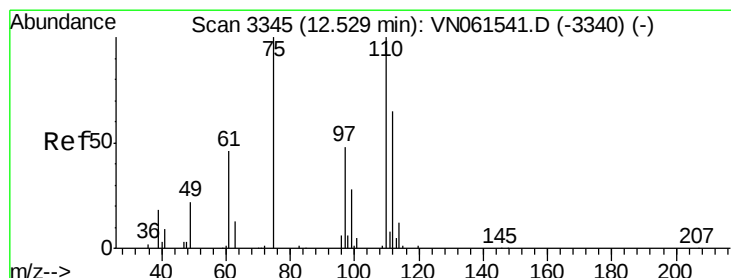
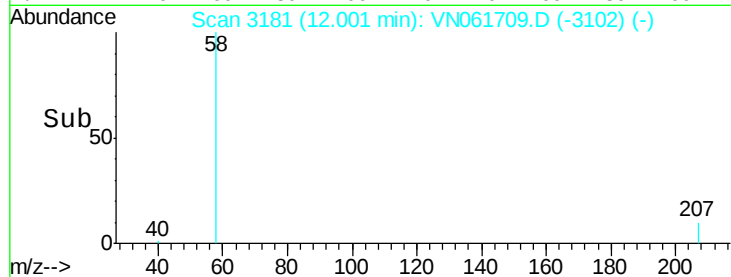
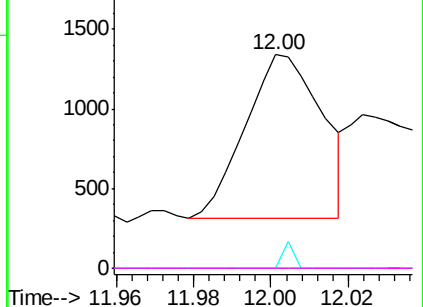


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 25.50 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061709.D

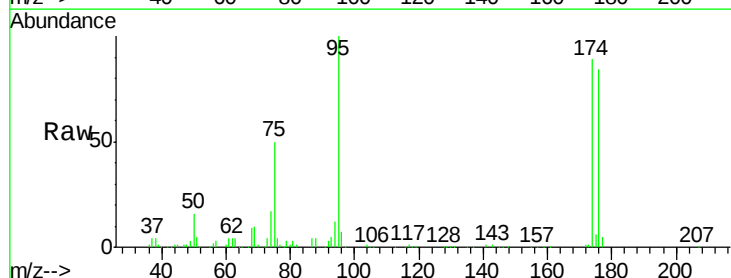
Acq: 8 Jun 2020 20:25

Tgt Ion: 75 Resp: 107257

Ion Ratio Lower Upper

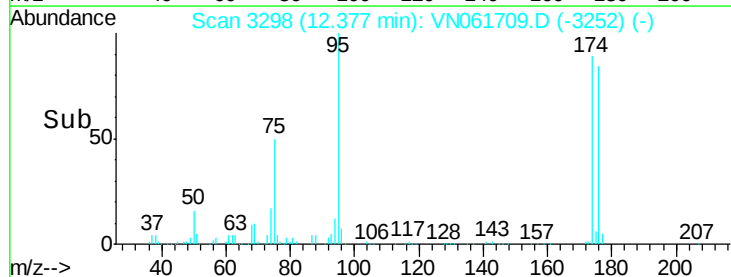
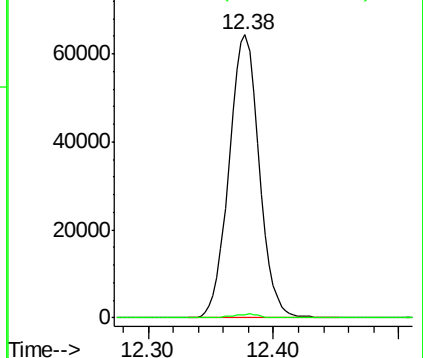
75 100

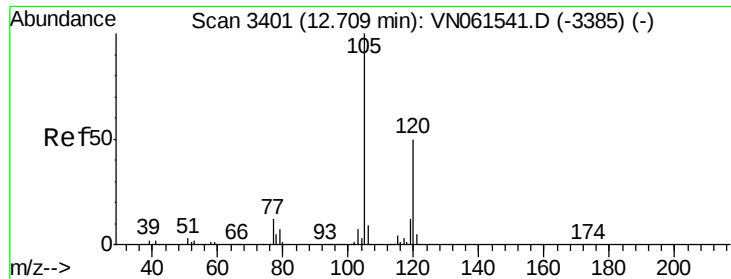
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

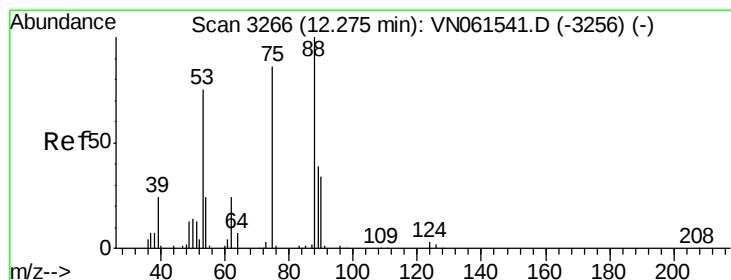
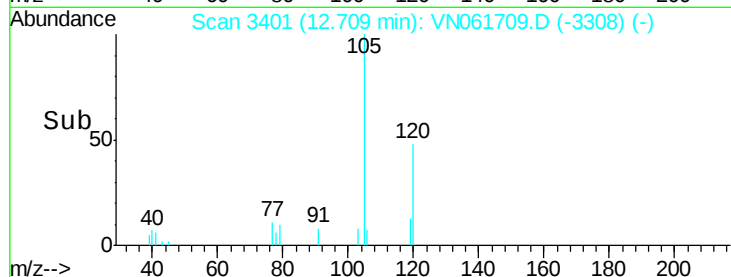
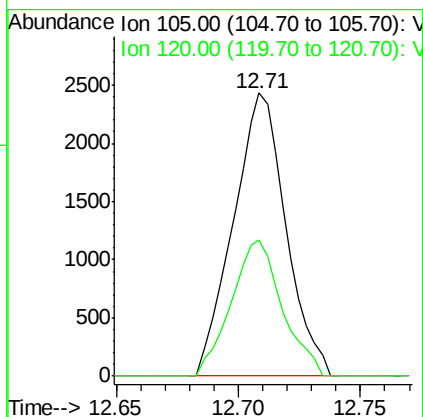
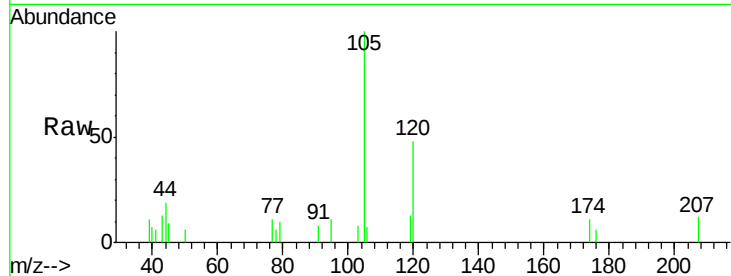




#80
 1,3,5-Trimethylbenzene
 Concen: 0.26 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#04

Tgt Ion: 105 Resp: 3624
 Ion Ratio Lower Upper
 105 100
 120 46.6 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.20 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061709.D
 Acq: 8 Jun 2020 20:25

Tgt Ion: 75 Resp: 107257
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

