

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061935.D
 Acq On : 19 Jun 2020 6:30
 Operator : JC/MD
 Sample : PB129596ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129596ZHE#12

Quant Time: Jun 19 07:35:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	137578	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	265526	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	264677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	100604	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	95888	51.97	ug/l	0.00
Spiked Amount			Recovery	=	103.94%	
35) Dibromofluoromethane	7.55	113	84205	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
50) Toluene-d8	10.06	98	338493	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	12.38	95	113847	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	

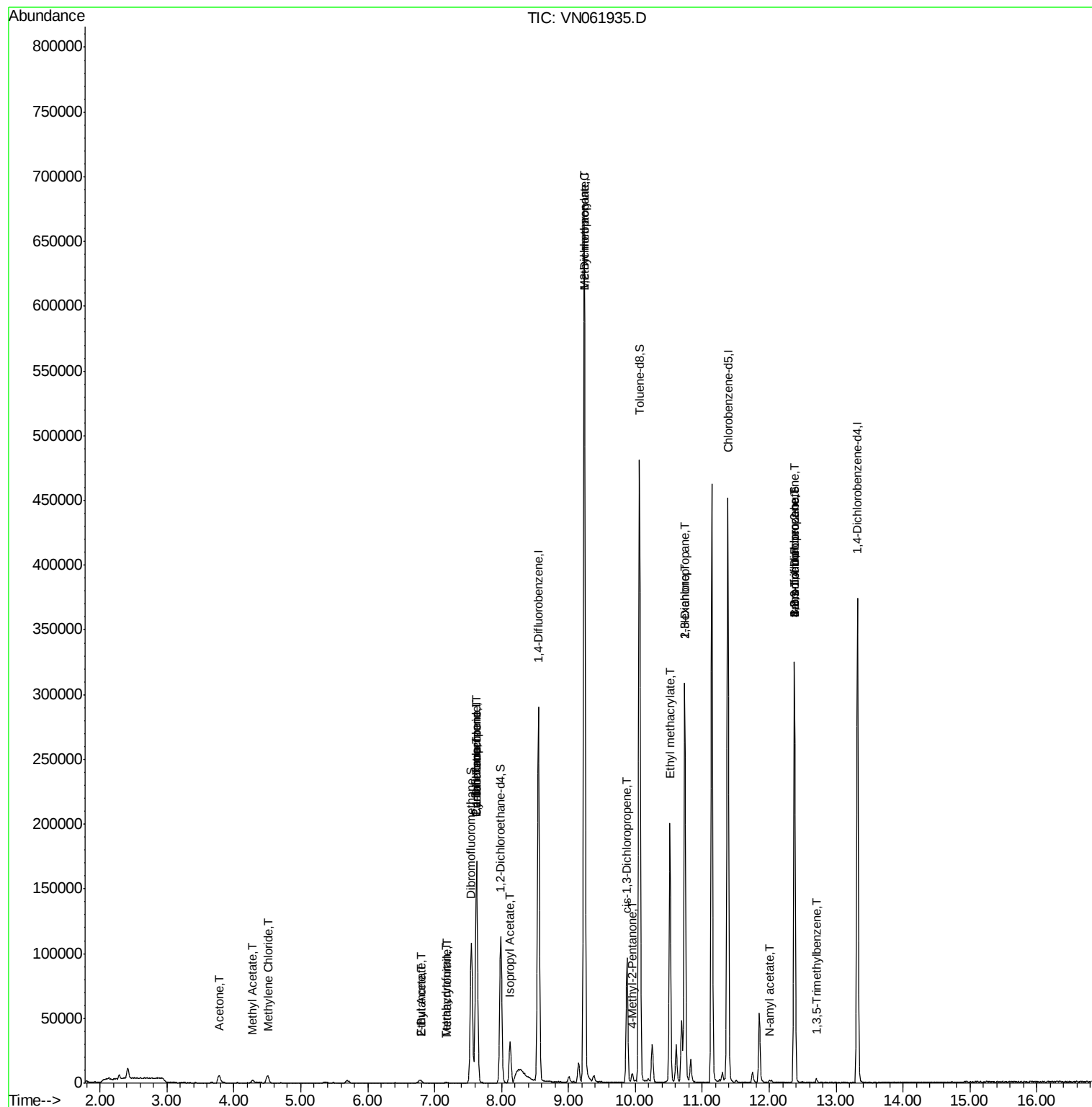
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	10602	19.453	ug/l	97
18) Methyl Acetate	4.28	43	4386	2.795	ug/l #	86
20) Methylene Chloride	4.50	84	4830	2.720	ug/l	87
25) 2-Butanone	6.80	43	2163	2.720	ug/l	99
29) Tetrahydrofuran	7.16	42	141	0.269	ug/l #	29
31) Cyclohexane	7.62	56	2948	1.212	ug/l #	23
36) 1,1-Dichloropropene	7.63	75	11221	4.633	ug/l #	49
37) Ethyl Acetate	6.80	43	2163	1.144	ug/l #	65
38) Carbon Tetrachloride	7.63	117	14112	5.884	ug/l #	18
41) Methacrylonitrile	7.17	41	188	0.232	ug/l #	100
43) Isopropyl Acetate	8.13	43	34194	10.728	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	921	0.511	ug/l #	43
48) Methyl methacrylate	9.24	41	63848	44.051	ug/l #	33
51) 4-Methyl-2-Pentanone	9.95	43	4788	2.542	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	18071	6.029	ug/l #	67
56) Ethyl methacrylate	10.52	69	725	3.149	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3616	1.177	ug/l #	42
59) 2-Hexanone	10.74	43	39982	38.553	ug/l #	49
71) Bromoform	12.38	173	956	0.673	ug/l #	1
74) N-amyl acetate	12.01	43	951	3.409	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	55002	27.848	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2293	0.388	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.38	75	55002	75.952	ug/l #	14

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Instrument :

MSVOA_N

ClientSampleId :

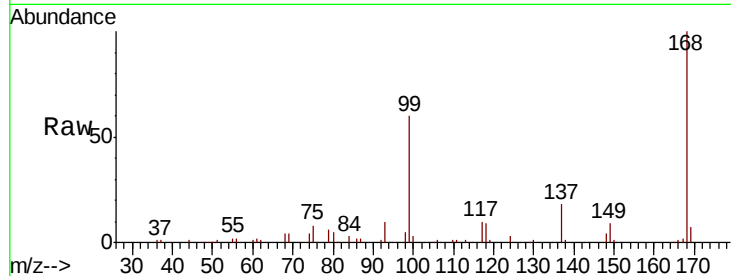
PB129596ZHE#12

Tot Ion:168 Resp: 137578

Ion Ratio Lower Upper

168 100

99 60.0 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

50000

40000

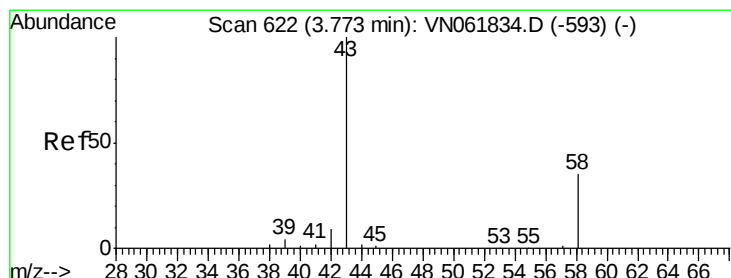
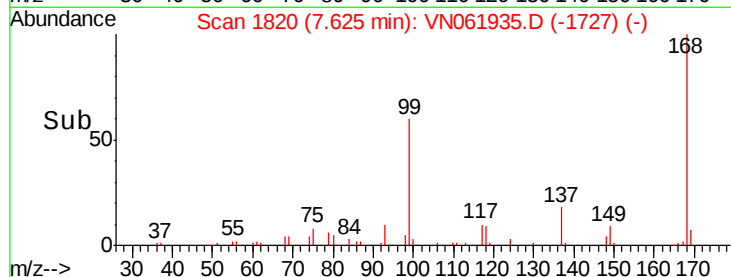
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 19.453 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061935.D

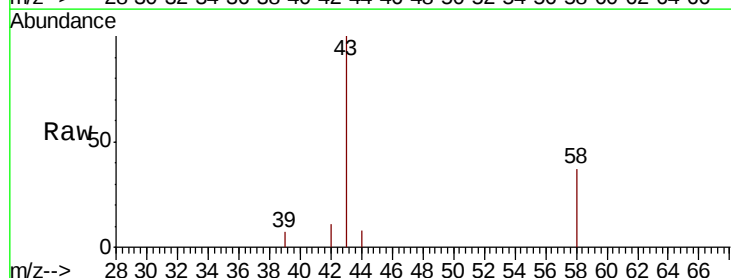
Acq: 19 Jun 2020 6:30

Tgt Ion: 43 Resp: 10602

Ion Ratio Lower Upper

43 100

58 36.7 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

4000

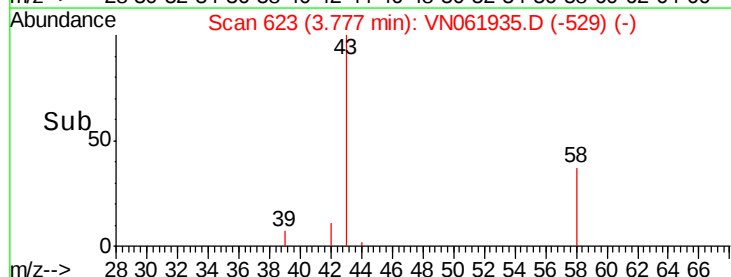
3000

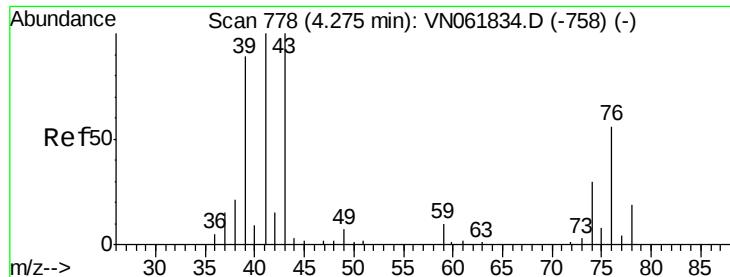
2000

1000

0

Time--> 3.70 3.75 3.80 3.85

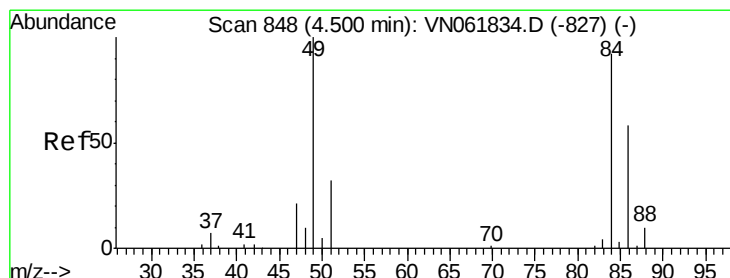
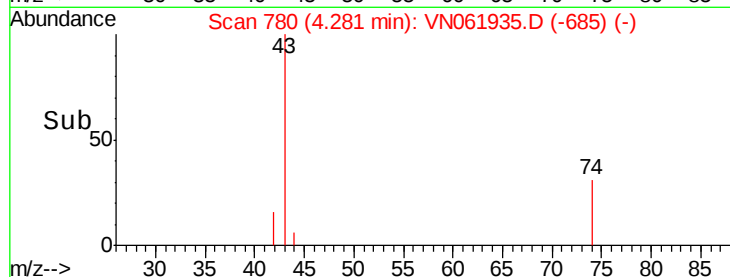
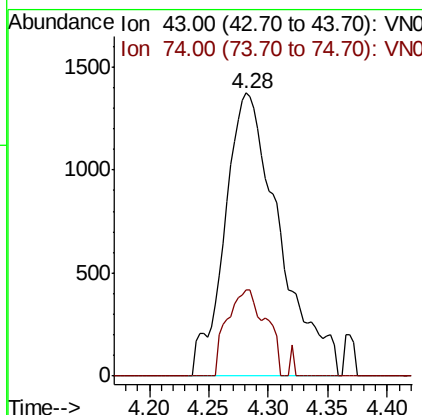
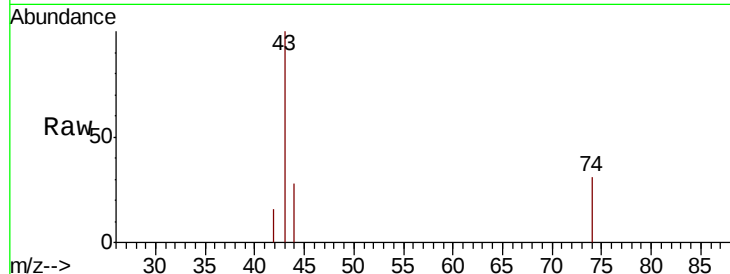




#18
Methyl Acetate
Concen: 2.795 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

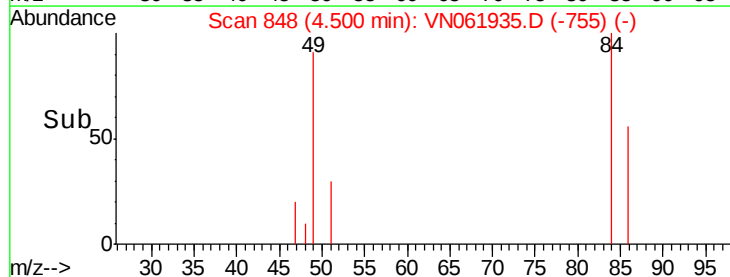
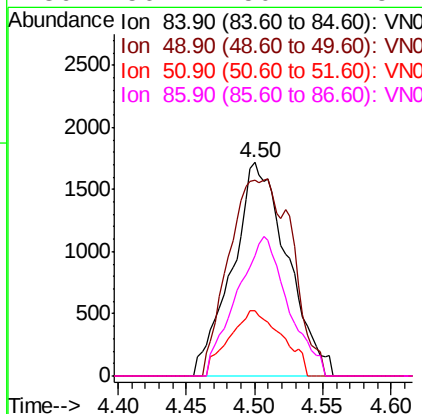
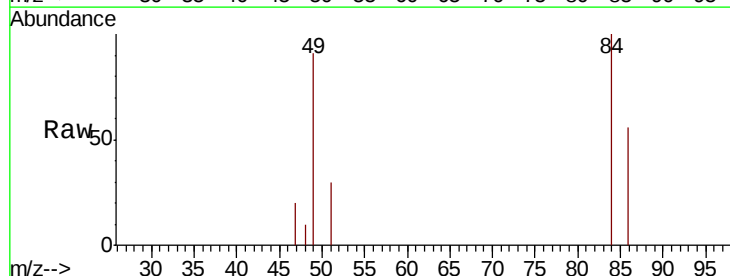
Instrument :
MSVOA_N
ClientSampleId :
PB129596ZHE#12

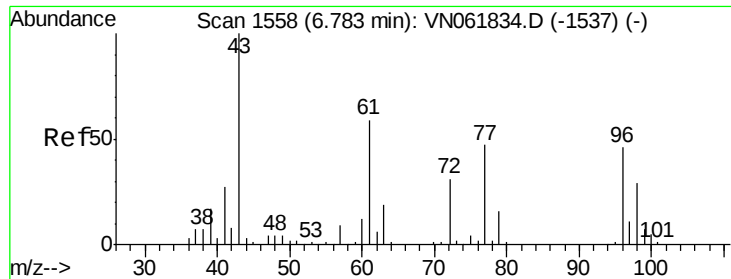
Tot Ion: 43 Resp: 4386
Ion Ratio Lower Upper
43 100
74 21.5 23.0 34.4#



#20
Methylene Chloride
Concen: 2.720 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

Tgt Ion: 84 Resp: 4830
Ion Ratio Lower Upper
84 100
49 91.4 87.0 130.4
51 30.3 27.8 41.6
86 56.1 50.2 75.2

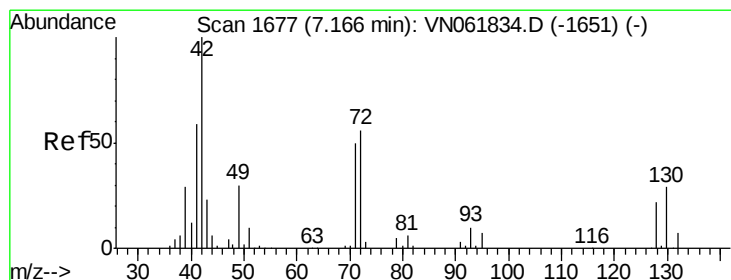
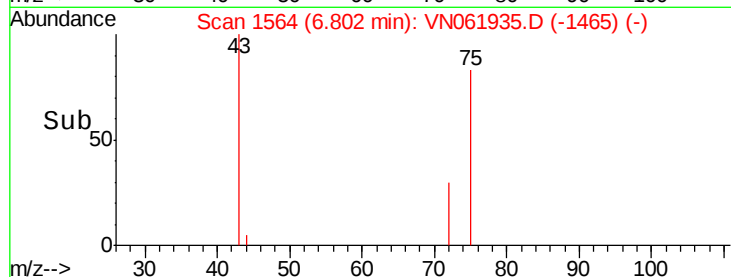
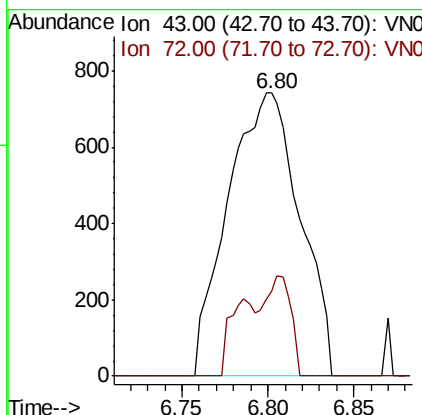
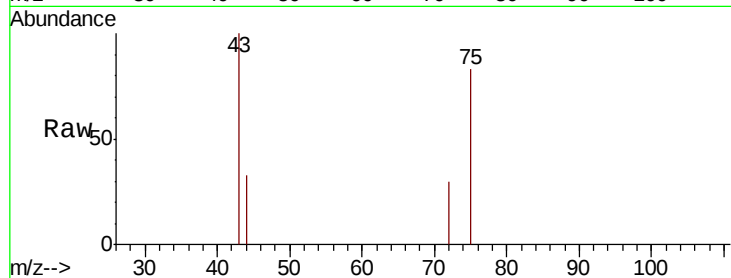




#25
2-Butanone
Concen: 2.720 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.02 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

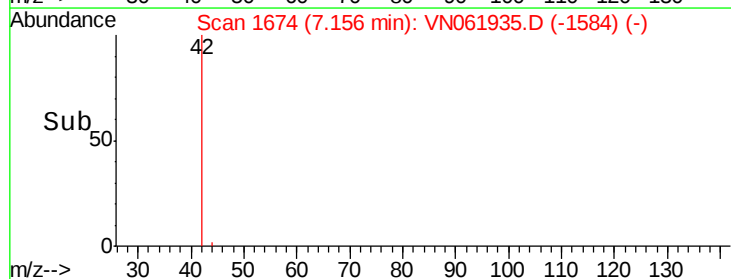
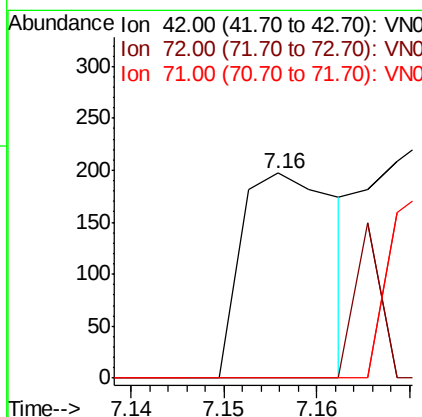
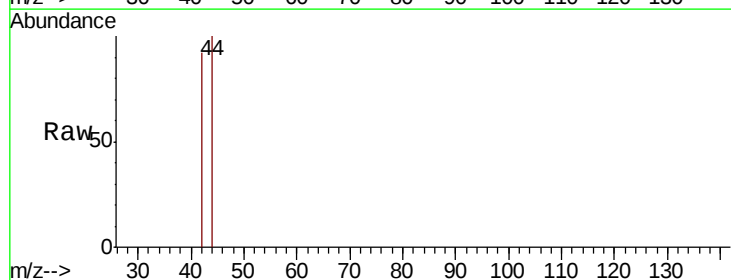
Instrument :
MSVOA_N
ClientSampleId :
PB129596ZHE#12

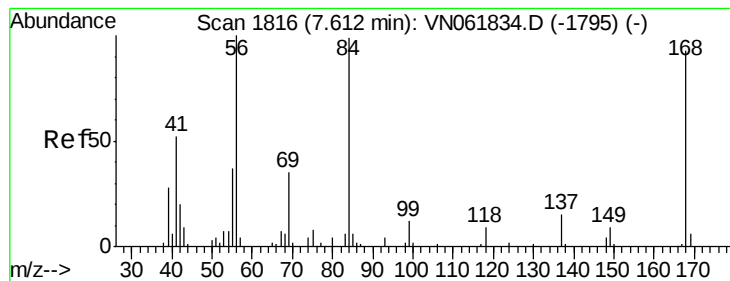
Tot Ion: 43 Resp: 2163
Ion Ratio Lower Upper
43 100
72 30.2 24.6 37.0



#29
Tetrahydrofuran
Concen: 0.269 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. -0.01 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

Tgt Ion: 42 Resp: 141
Ion Ratio Lower Upper
42 100
72 20.6 44.0 66.0#
71 116.3 40.0 60.0#





#31

Cyclohexane

Concen: 1.212 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#12

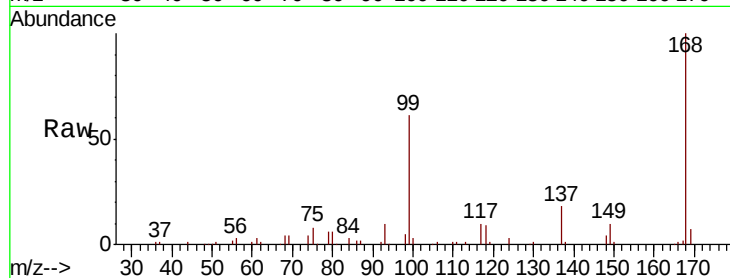
Tot Ion: 56 Resp: 2948

Ion Ratio Lower Upper

56 100

69 163.8 27.7 41.5#

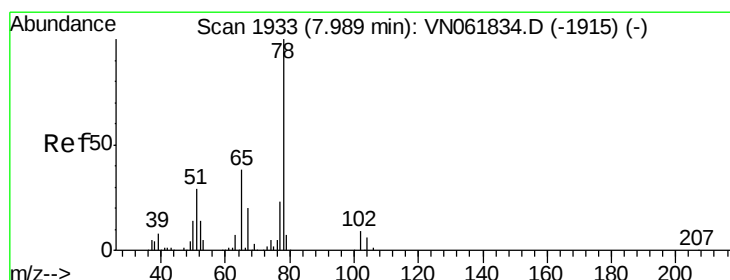
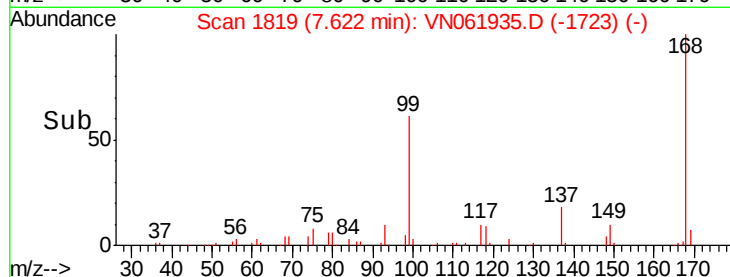
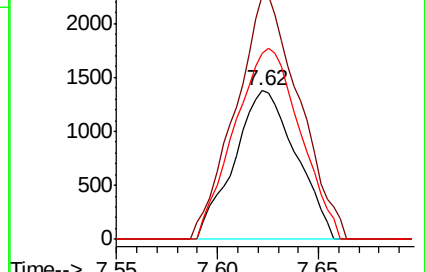
84 124.8 79.1 118.7#



Abundance Ion 56.00 (55.70 to 56.70): VN061935.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061935.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061935.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 51.968 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061935.D

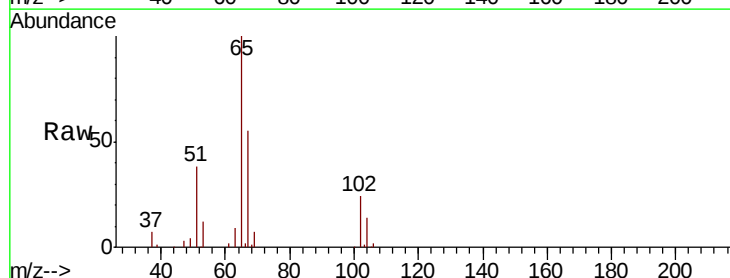
Acq: 19 Jun 2020 6:30

Tgt Ion: 65 Resp: 95888

Ion Ratio Lower Upper

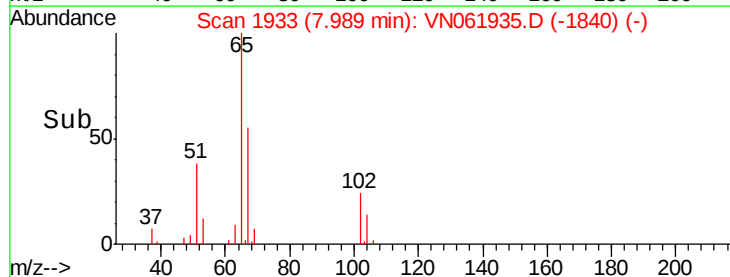
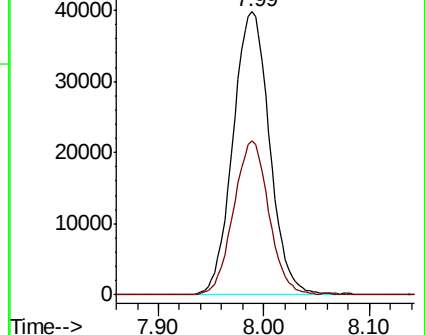
65 100

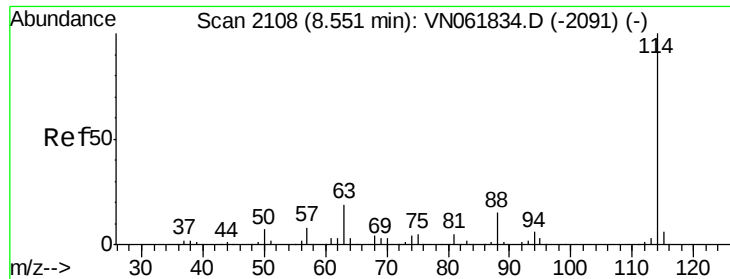
67 52.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN061935.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061935.D (-1840) (-)

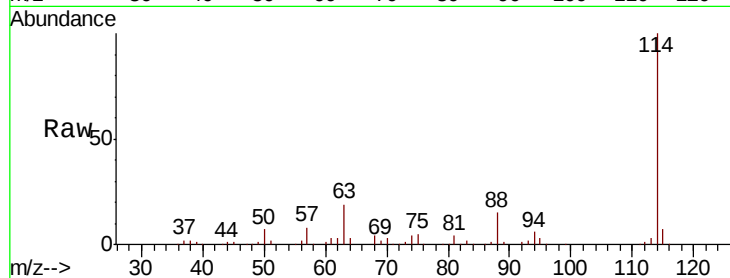




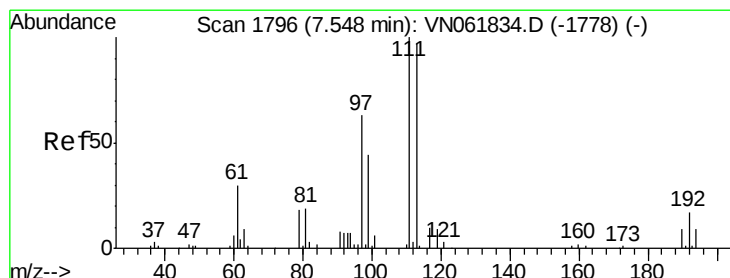
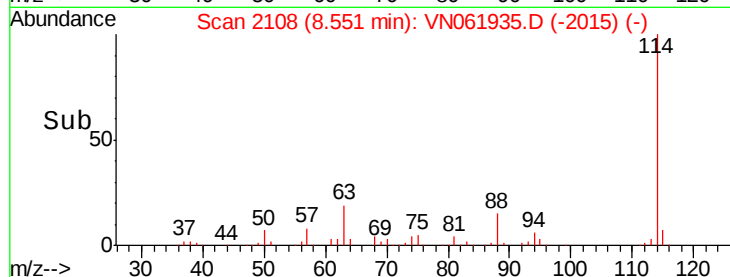
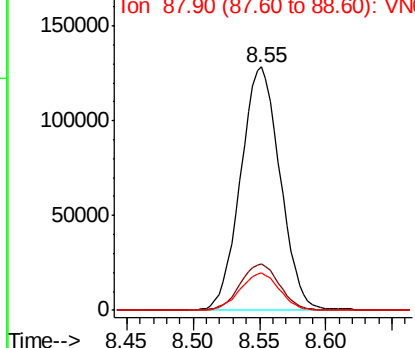
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061935.D
 Acq: 19 Jun 2020 6:30

Instrument :
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 PB129596ZHE#12

Tot Ion:114 Resp: 265526
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 37.6
 88 15.3 0.0 31.0

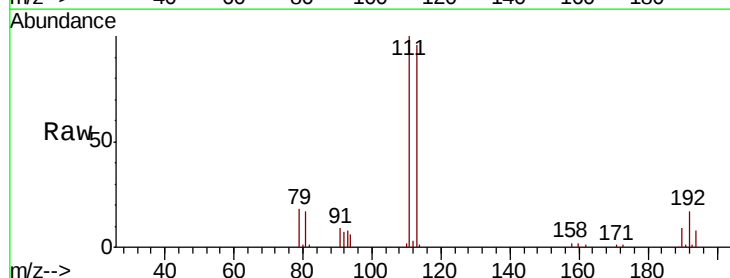


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

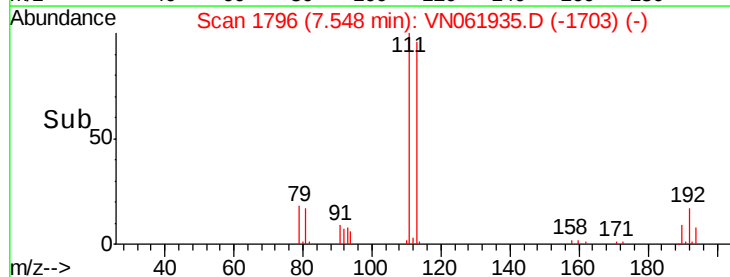
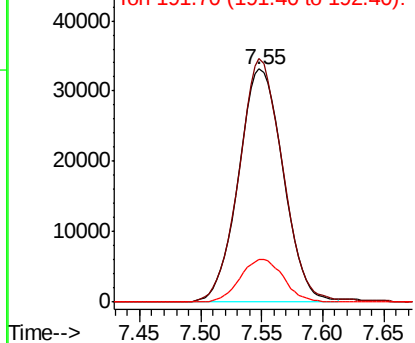


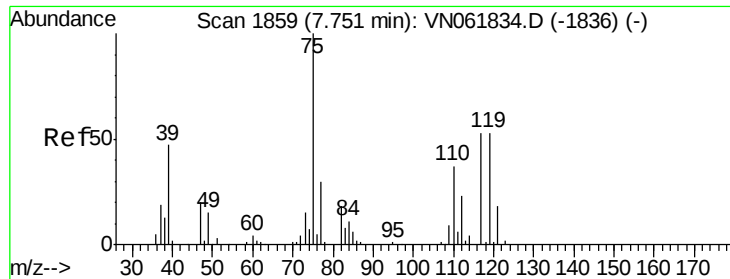
#35
 Dibromofluoromethane
 Concen: 49.570 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061935.D
 Acq: 19 Jun 2020 6:30

Tgt Ion:113 Resp: 84205
 Ion Ratio Lower Upper
 113 100
 111 101.8 83.7 125.5
 192 17.6 13.9 20.9



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

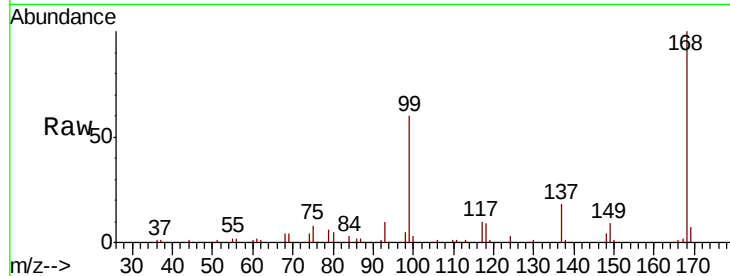




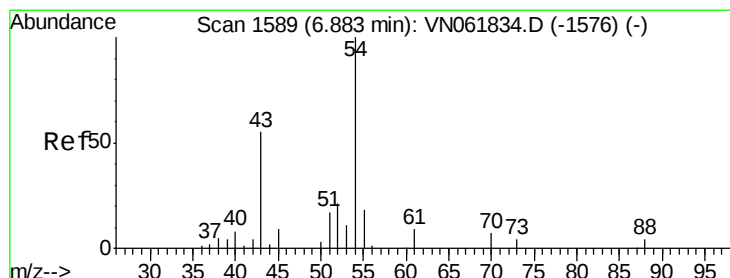
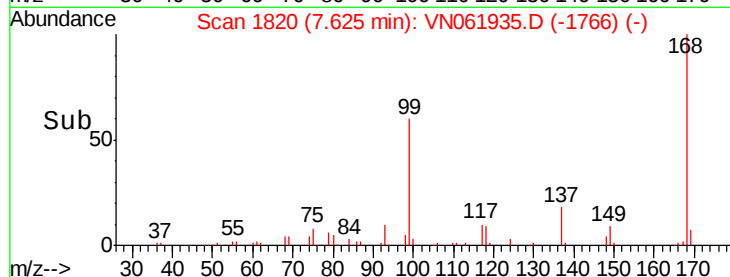
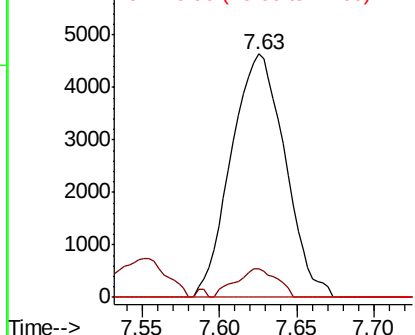
#36
 1,1-Dichloropropene
 Concen: 4.633 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061935.D
 Acq: 19 Jun 2020 6:30

Instrument :
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 PB129596ZHE#12

Tot Ion: 75 Resp: 11221
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.2 54.6#
 77 0.0 24.2 36.4#

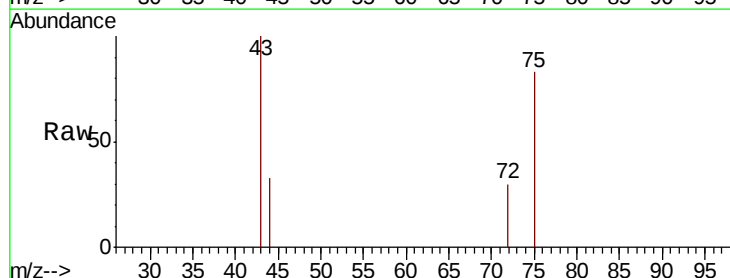


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

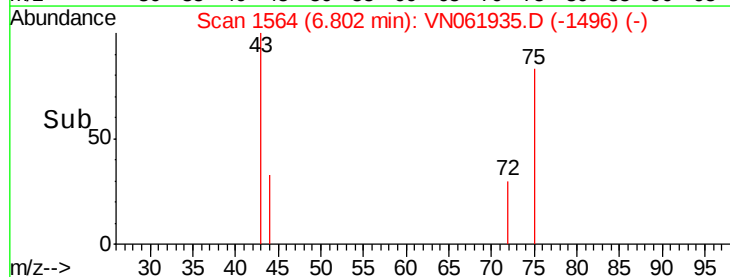
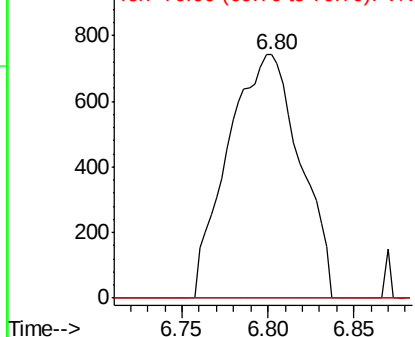


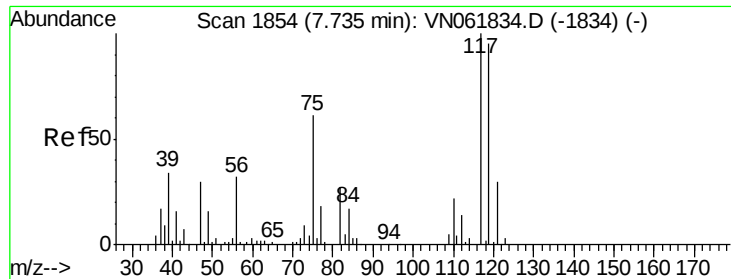
#37
 Ethyl Acetate
 Concen: 1.144 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.08 min
 Lab File: VN061935.D
 Acq: 19 Jun 2020 6:30

Tgt Ion: 43 Resp: 2163
 Ion Ratio Lower Upper
 43 100
 61 0.0 13.0 19.4#
 70 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.884 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#12

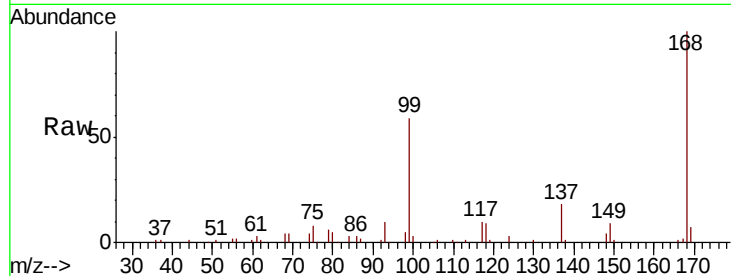
Tot Ion:117 Resp: 14112

Ion Ratio Lower Upper

117 100

119 6.7 75.8 113.6#

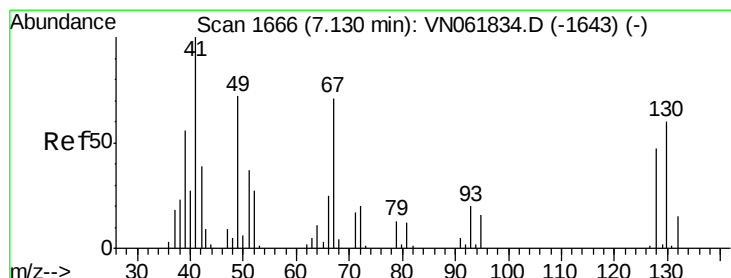
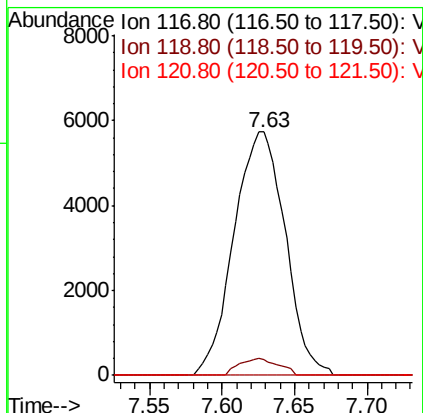
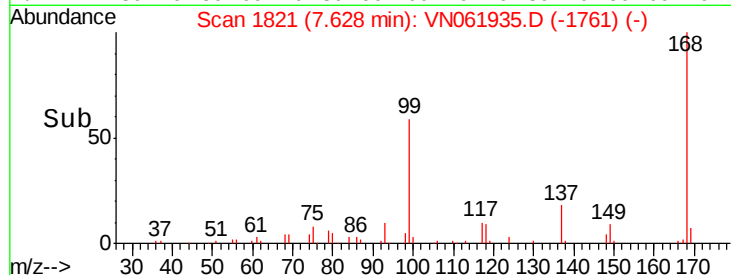
121 0.0 23.8 35.6#



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



#41

Methacrylonitrile

Concen: 0.232 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.04 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Tgt Ion: 41 Resp: 188

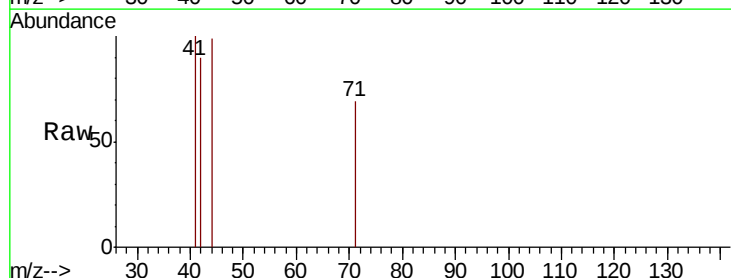
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

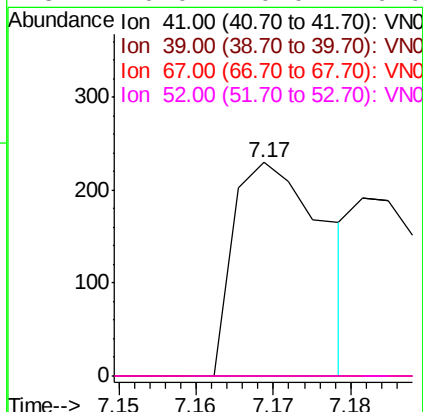
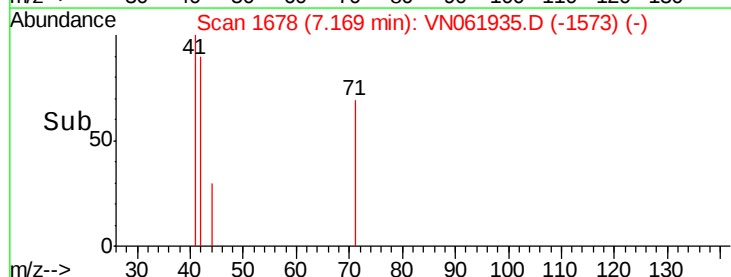


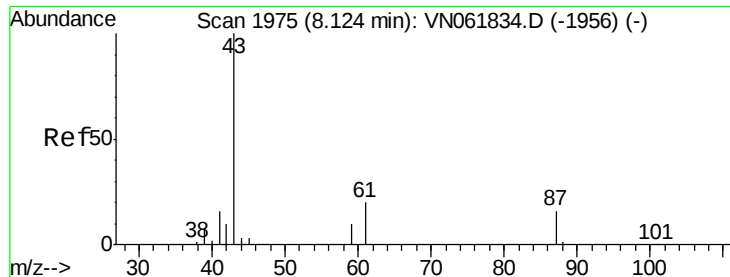
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 10.728 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#12

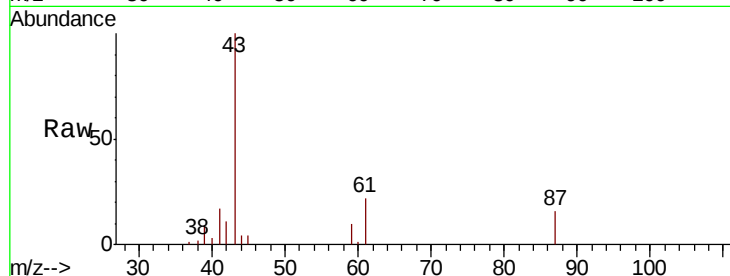
Tot Ion: 43 Resp: 34194

Ion Ratio Lower Upper

43 100

61 21.7 24.0 36.0#

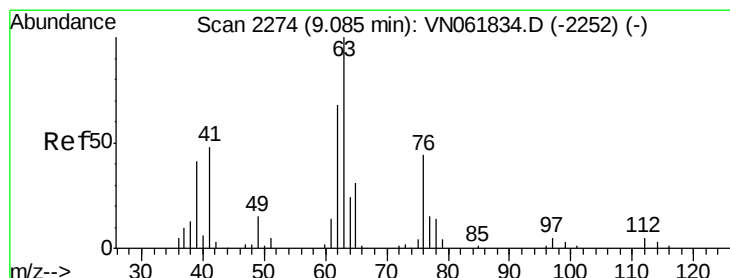
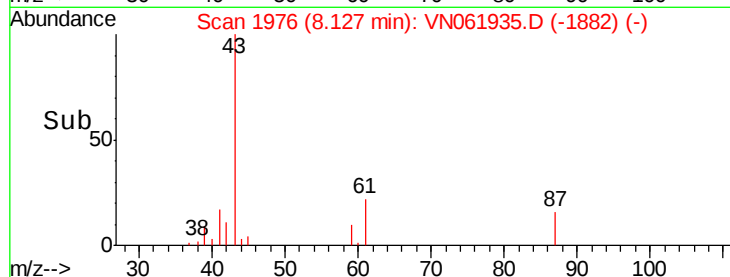
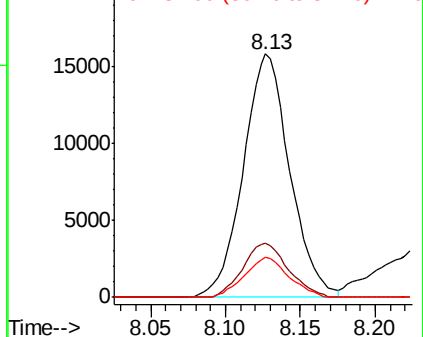
87 15.7 12.5 18.7



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: 0.511 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061935.D

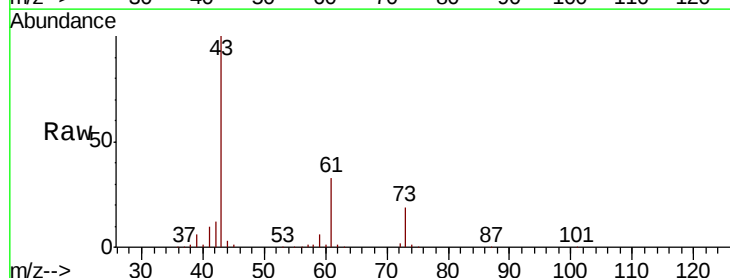
Acq: 19 Jun 2020 6:30

Tgt Ion: 63 Resp: 921

Ion Ratio Lower Upper

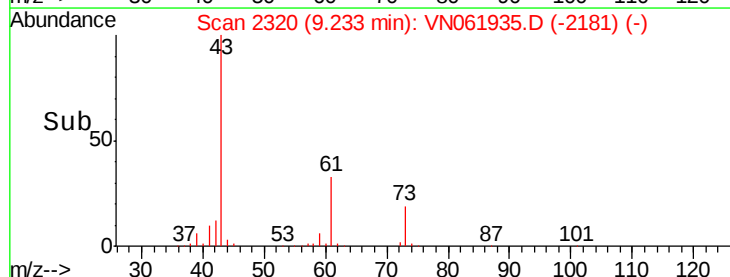
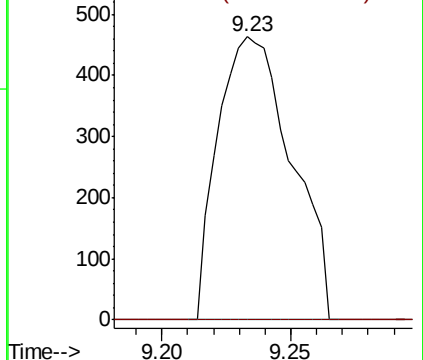
63 100

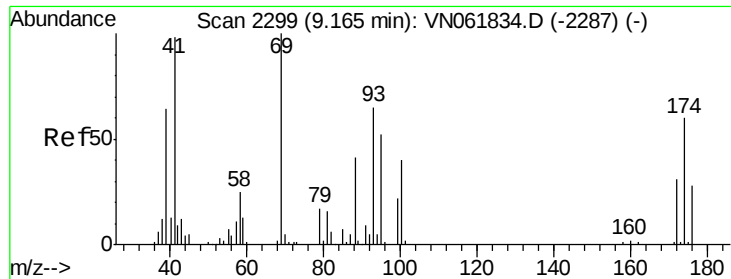
65 0.0 25.1 37.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

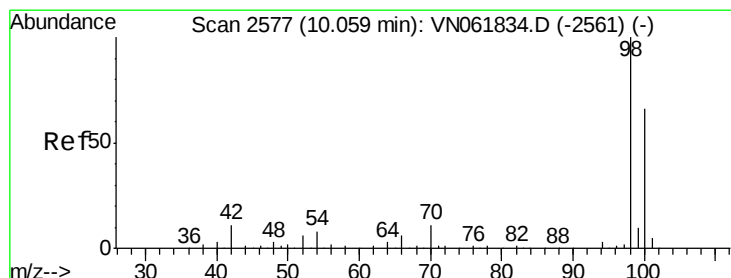
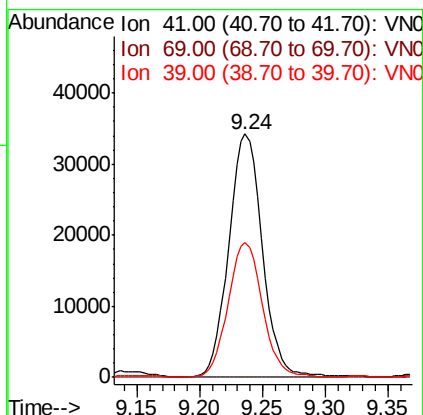
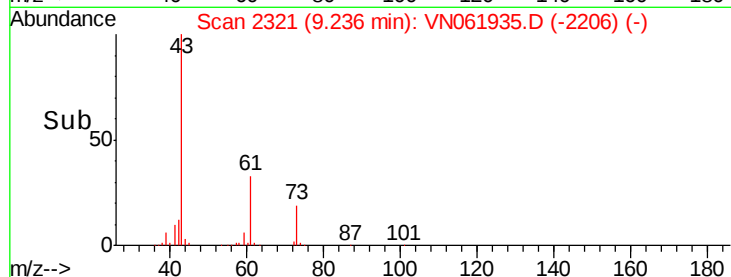
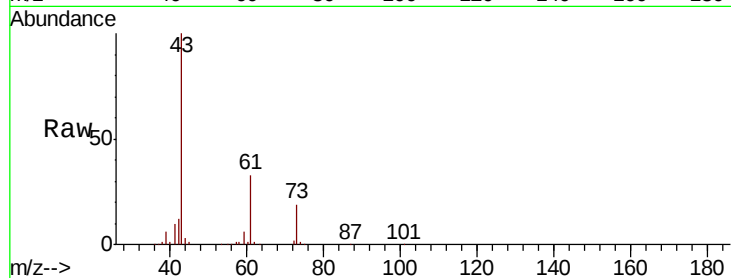




#48
Methvl methacrylate
Concen: 44.051 ug/l
RT: 9.24 min Scan# 2321
Delta R.T. 0.07 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

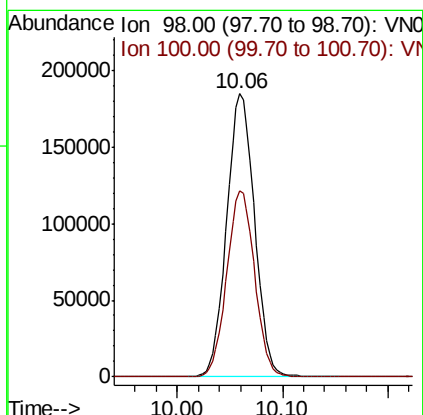
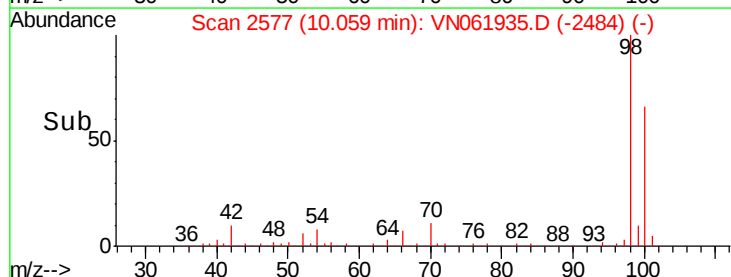
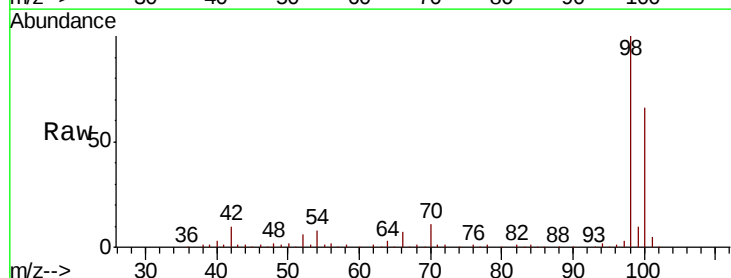
Instrument :
MSVOA_N
ClientSampleId :
PB129596ZHE#12

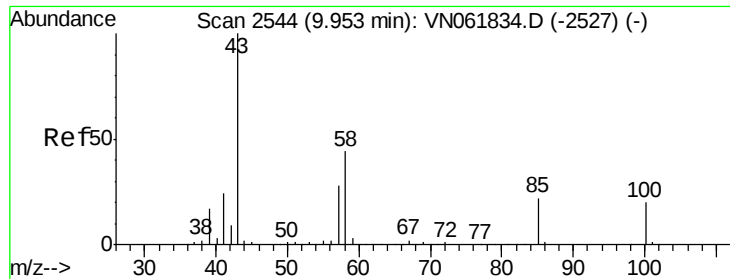
Tot Ion: 41 Resp: 63848
Ion Ratio Lower Upper
41 100
69 0.0 83.0 124.4#
39 56.6 55.1 82.7



#50
Toluene-d8
Concen: 50.686 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

Tgt Ion: 98 Resp: 338493
Ion Ratio Lower Upper
98 100
100 65.6 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 2.542 ug/l

RT: 9.95 min Scan# 2543

Delta R.T. -0.00 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Instrument :

MSVOA_N

ClientSampleId :

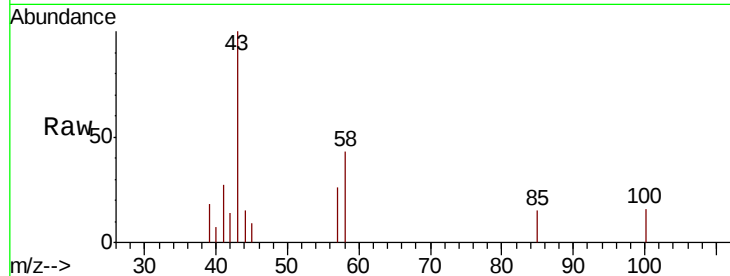
PB129596ZHE#12

Tot Ion: 43 Resp: 4788

Ion Ratio Lower Upper

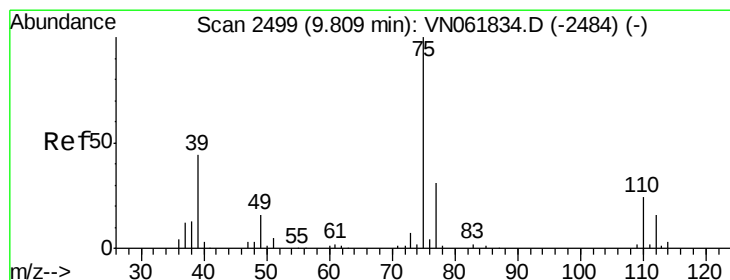
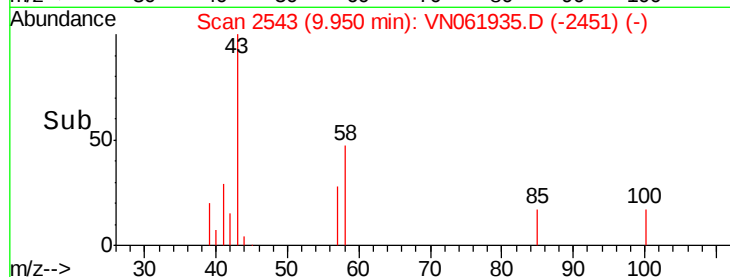
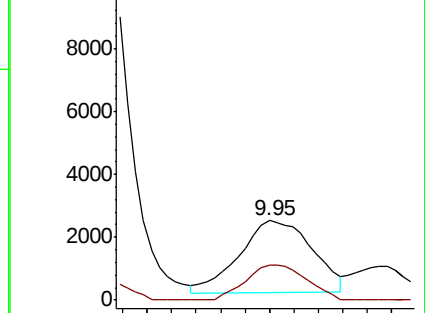
43 100

58 40.3 34.6 52.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.029 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

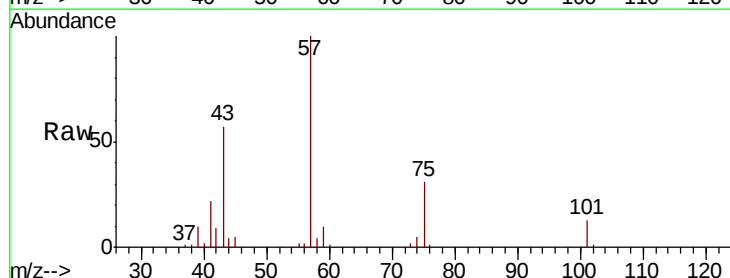
Tgt Ion: 75 Resp: 18071

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

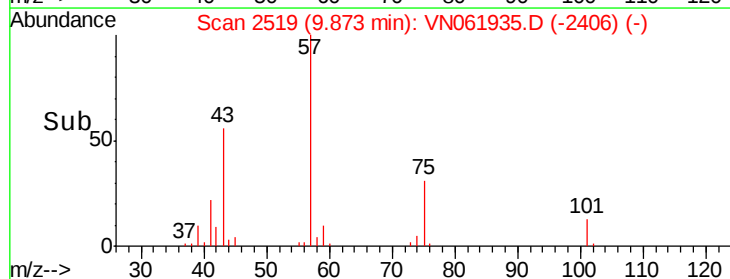
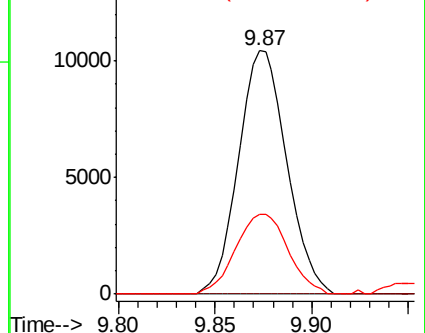
39 33.0 35.4 53.0#

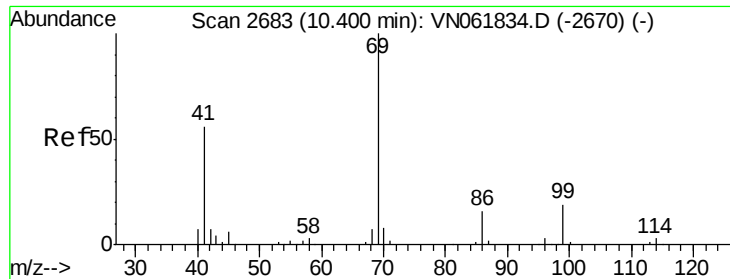


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 3.149 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#12

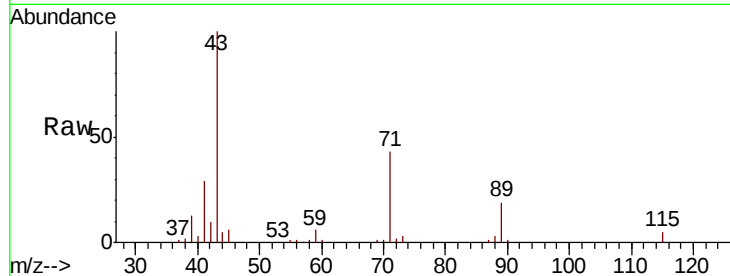
Tot Ion: 69 Resp: 725

Ion Ratio Lower Upper

69 100

41 5254.6 44.9 67.3#

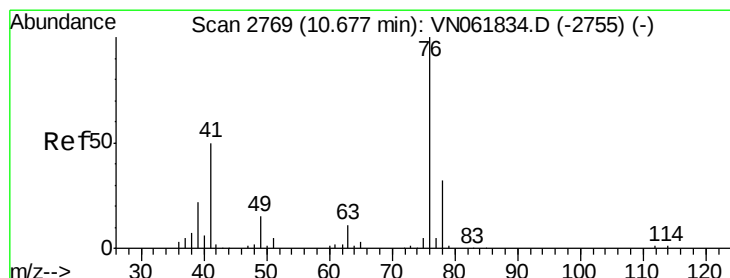
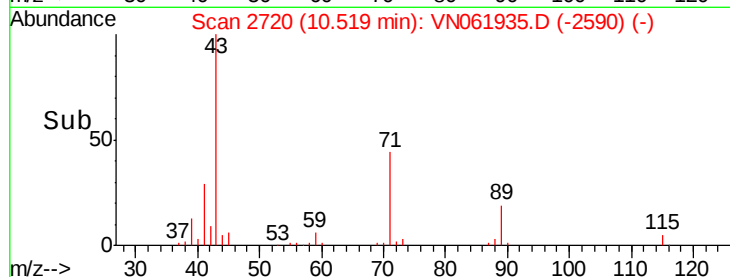
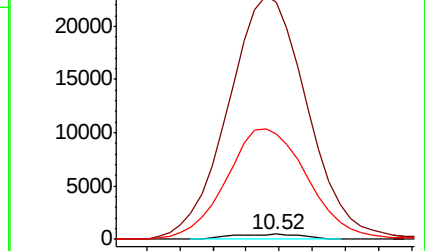
39 2462.5 30.0 45.0#



Abundance Ion 69.00 (68.70 to 69.70): VN061834.D (-2670) (-)

Ion 41.00 (40.70 to 41.70): VN061834.D (-2670) (-)

Ion 39.00 (38.70 to 39.70): VN061834.D (-2670) (-)



#57

1,3-Dichloropropane

Concen: 1.177 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061935.D

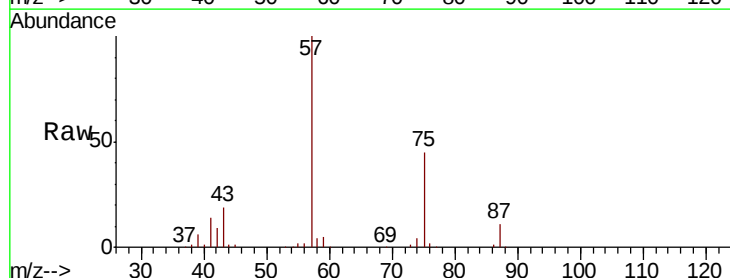
Acq: 19 Jun 2020 6:30

Tgt Ion: 76 Resp: 3616

Ion Ratio Lower Upper

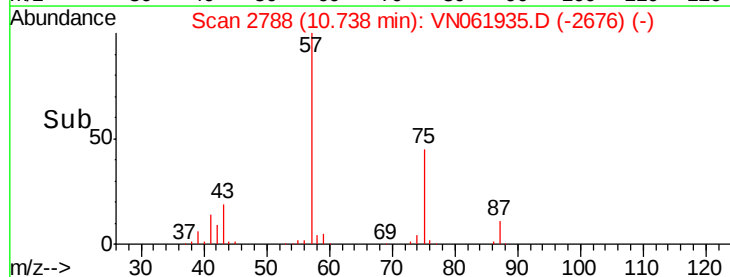
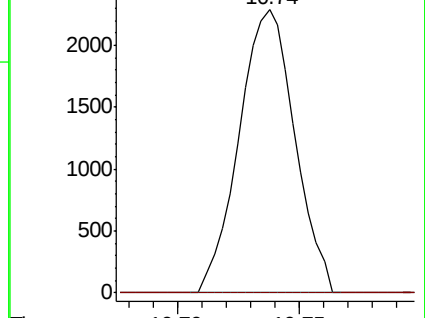
76 100

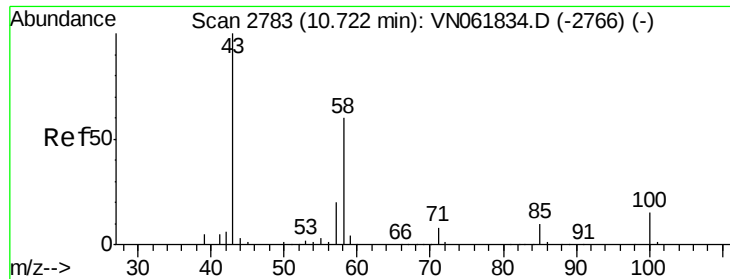
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN061834.D (-2755) (-)

Ion 77.90 (77.60 to 78.60): VN061834.D (-2755) (-)

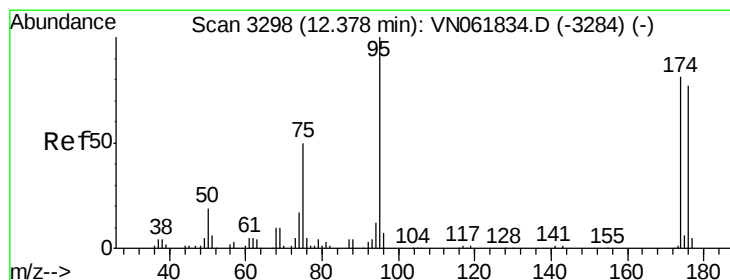
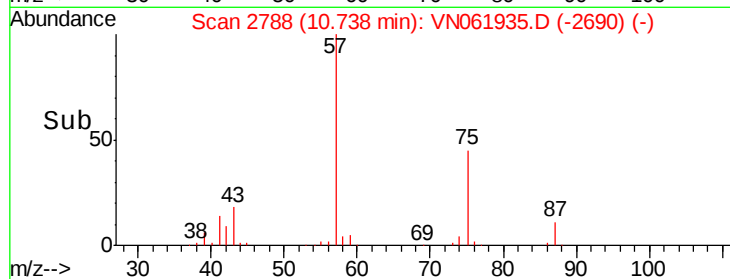
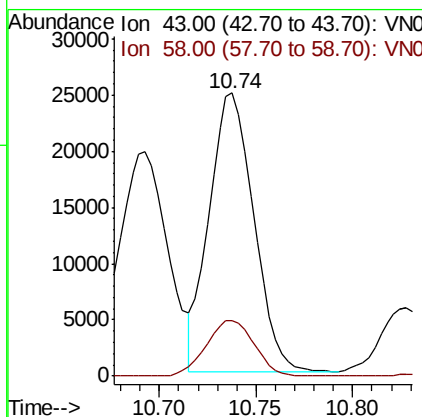
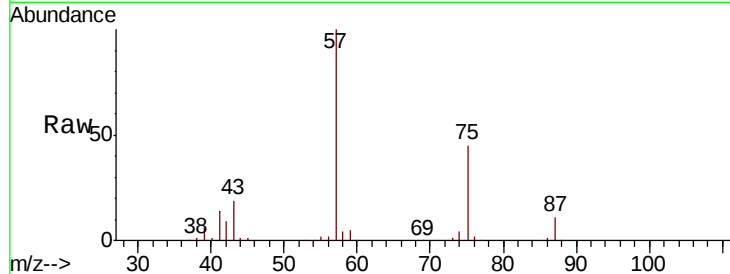




#59
2-Hexanone
Concen: 38.553 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

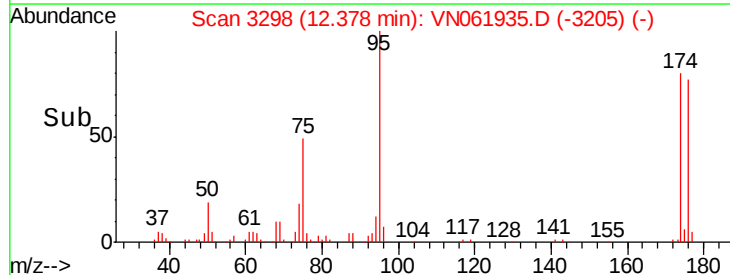
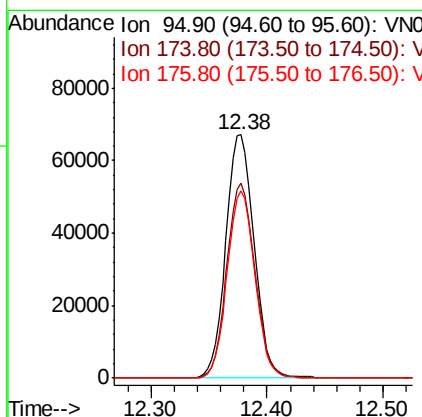
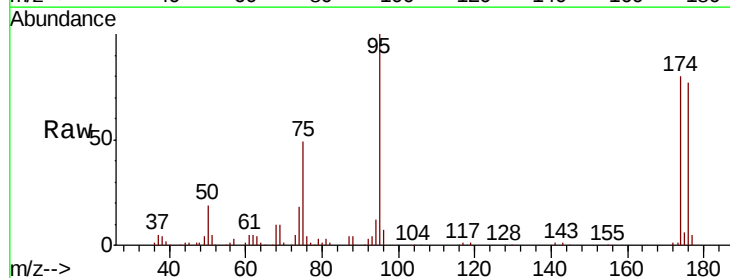
Instrument :
MSVOA_N
ClientSampleId :
PB129596ZHE#12

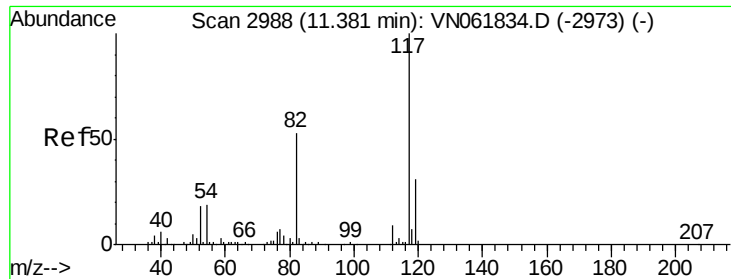
Tot Ion: 43 Resp: 39982
Ion Ratio Lower Upper
43 100
58 21.4 30.1 90.5#



#62
4-Bromofluorobenzene
Concen: 49.699 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

Tgt Ion: 95 Resp: 113847
Ion Ratio Lower Upper
95 100
174 79.4 0.0 158.6
176 75.3 0.0 152.0

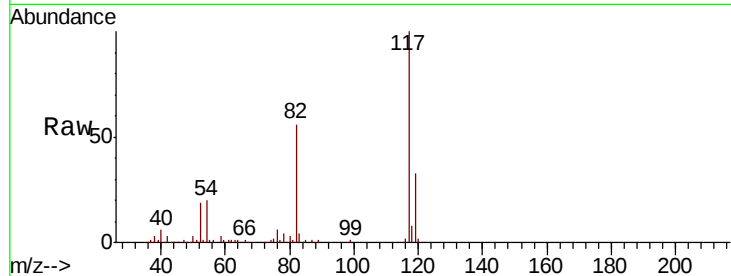




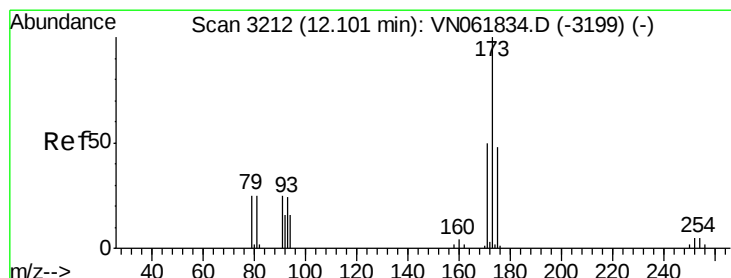
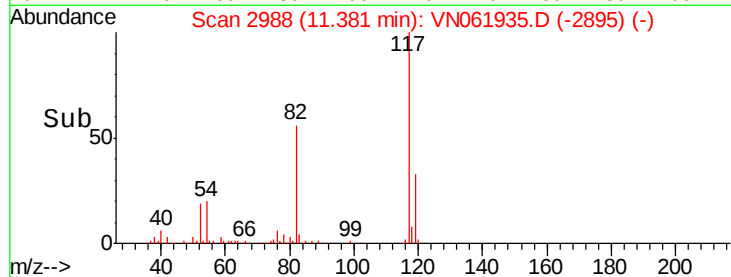
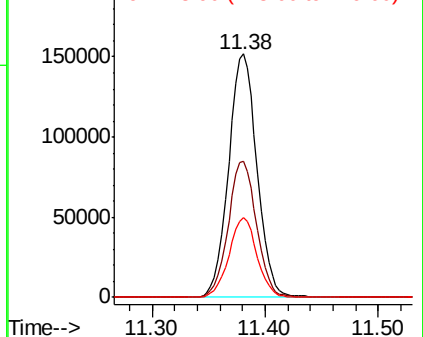
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

Instrument :
MSVOA_N
ClientSampleId :
PB129596ZHE#12

Tot Ion:117 Resp: 264677
Ion Ratio Lower Upper
117 100
82 55.7 42.6 64.0
119 32.6 24.7 37.1

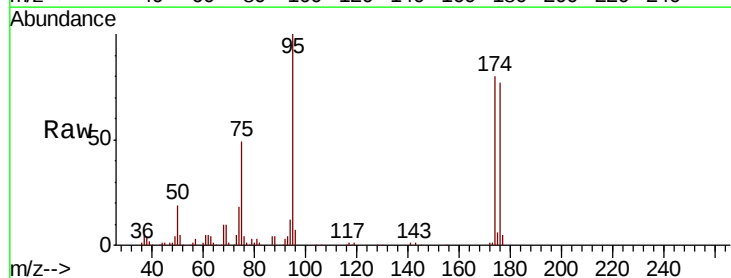


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

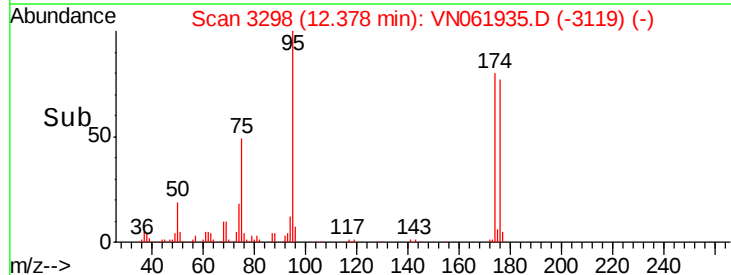
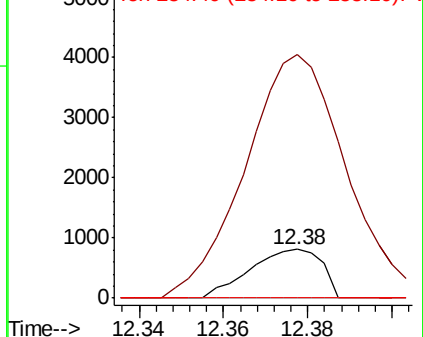


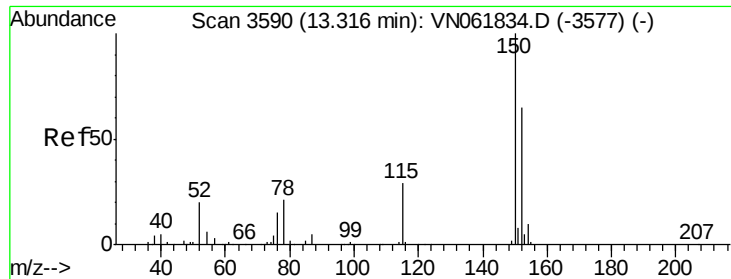
#71
Bromoform
Concen: 0.673 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061935.D
Acq: 19 Jun 2020 6:30

Tgt Ion:173 Resp: 956
Ion Ratio Lower Upper
173 100
175 597.5 23.9 71.7#
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: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#12

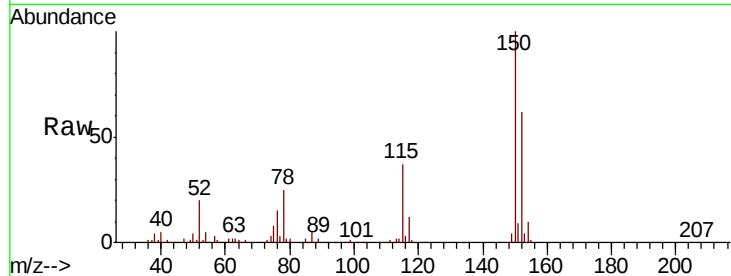
Tot Ion:152 Resp: 100604

Ion Ratio Lower Upper

152 100

115 60.2 29.1 87.3

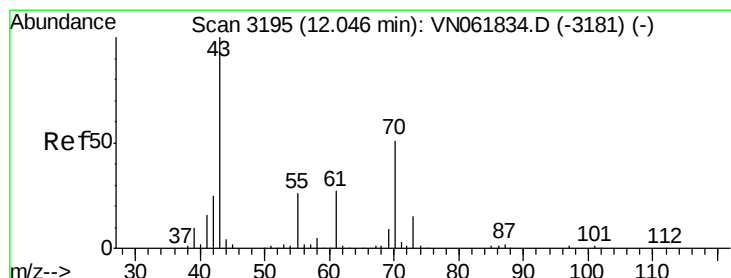
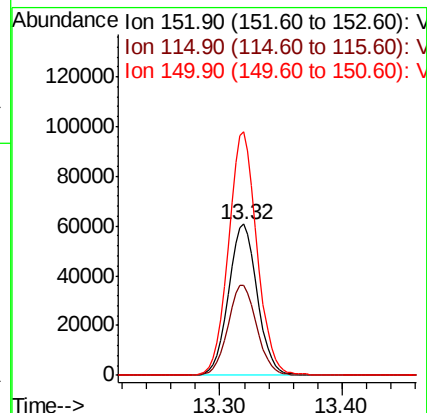
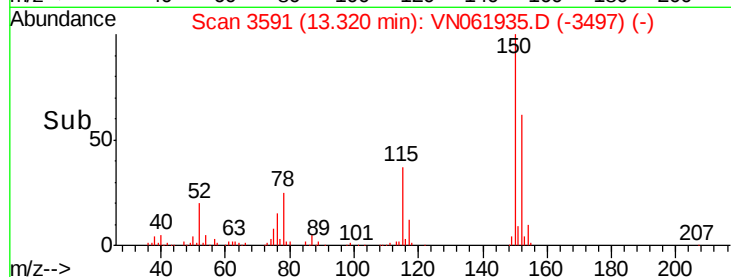
150 159.1 0.0 347.6



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-ethyl acetate

Concen: 3.409 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Tgt Ion: 43 Resp: 951

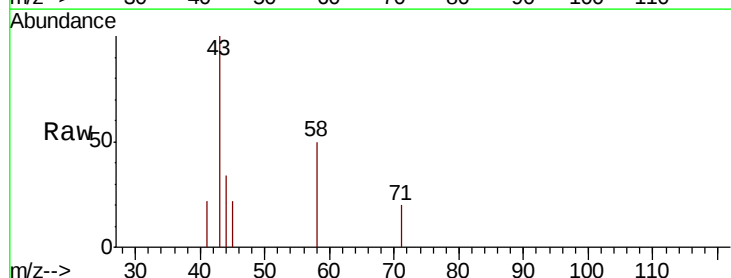
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

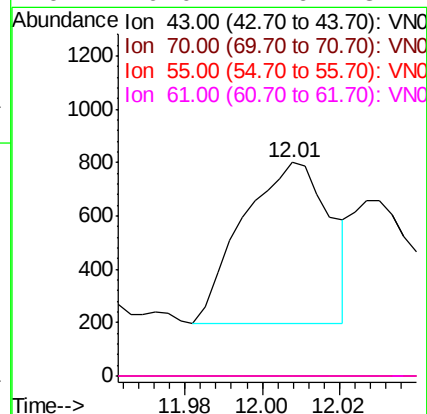
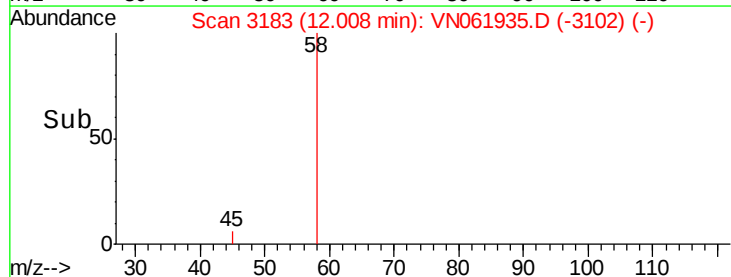


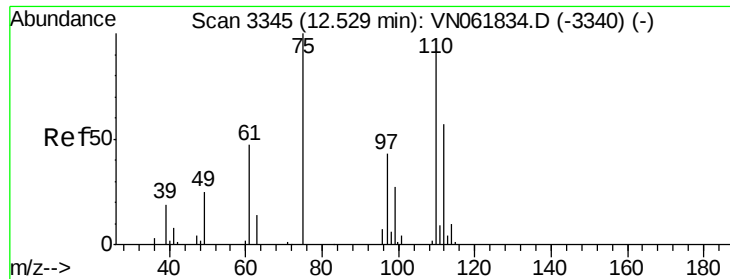
Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 70.00 (69.70 to 70.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 61.00 (60.70 to 61.70): VN

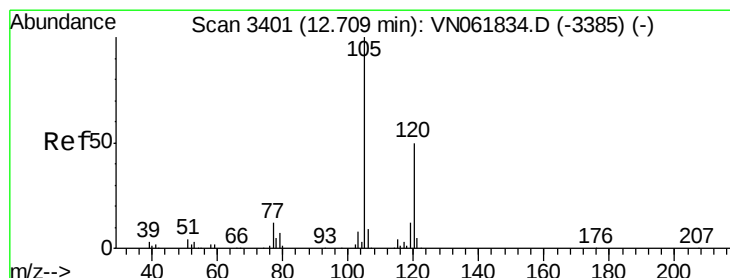
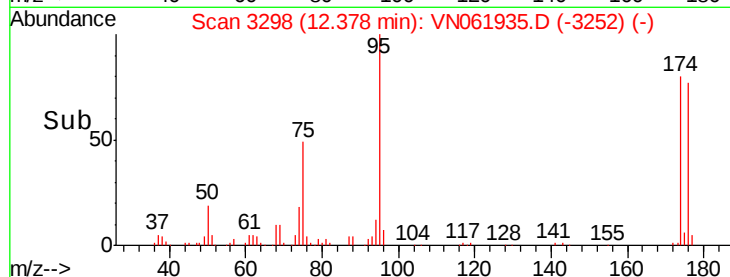
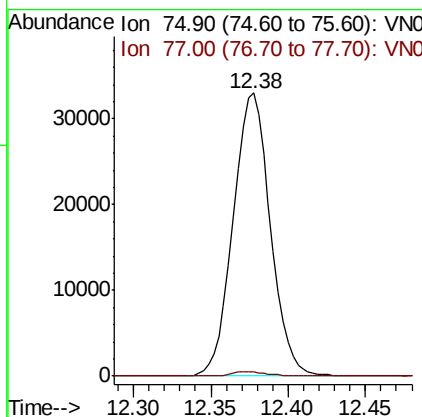
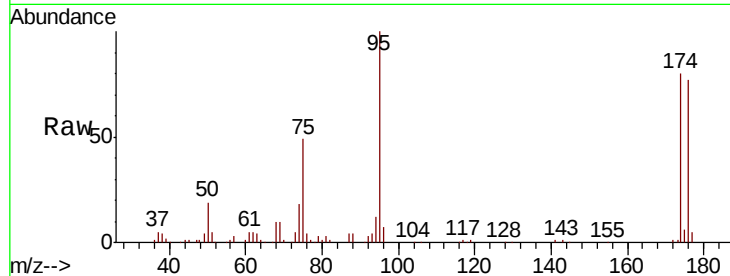




#76
 1,2,3-Trichloropropane
 Concen: 27.848 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN061935.D
 Acq: 19 Jun 2020 6:30

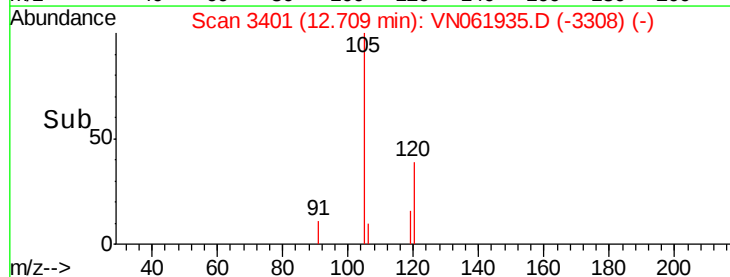
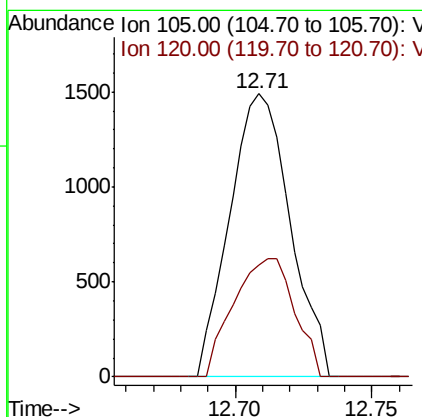
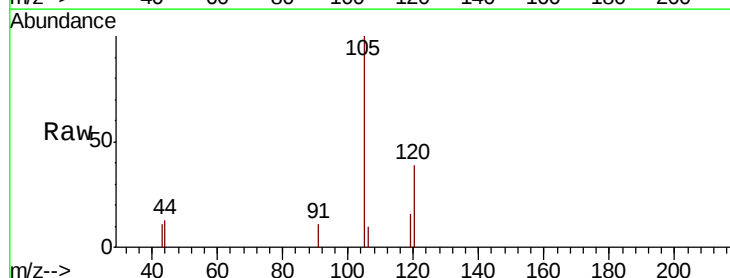
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129596ZHE#12

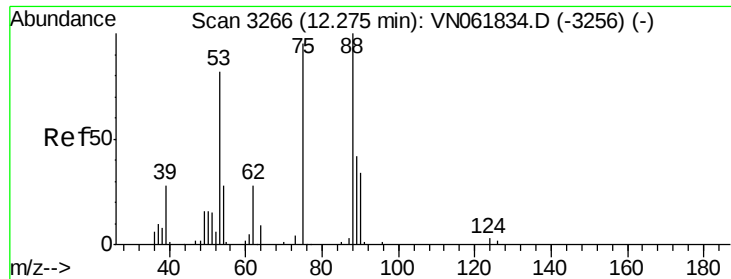
Tot Ion: 75 Resp: 55002
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.388 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN061935.D
 Acq: 19 Jun 2020 6:30

Tgt Ion: 105 Resp: 2293
 Ion Ratio Lower Upper
 105 100
 120 42.1 24.9 74.7





#81

trans-1,4-Dichloro-2-butene

Concen: 75.952 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061935.D

Acq: 19 Jun 2020 6:30

Instrument :

MSVOA_N

ClientSampleId :

PB129596ZHE#12

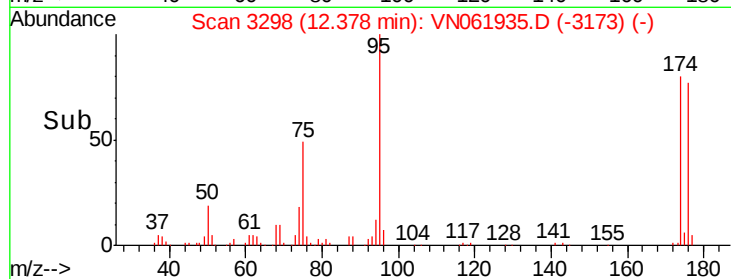
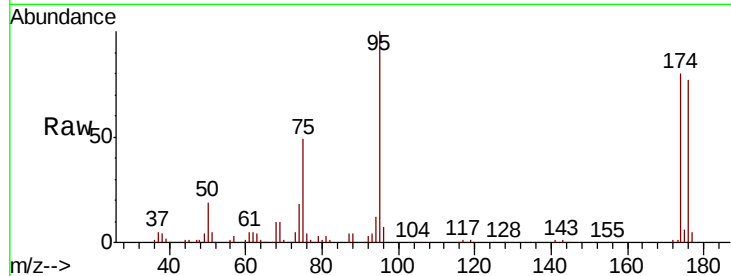
Tot Ion: 75 Resp: 55002

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



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

