

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061820\
 Data File : VN061910.D
 Acq On : 18 Jun 2020 19:16
 Operator : JC/MD
 Sample : L3024-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RO-21

Quant Time: Jun 19 05:28:40 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

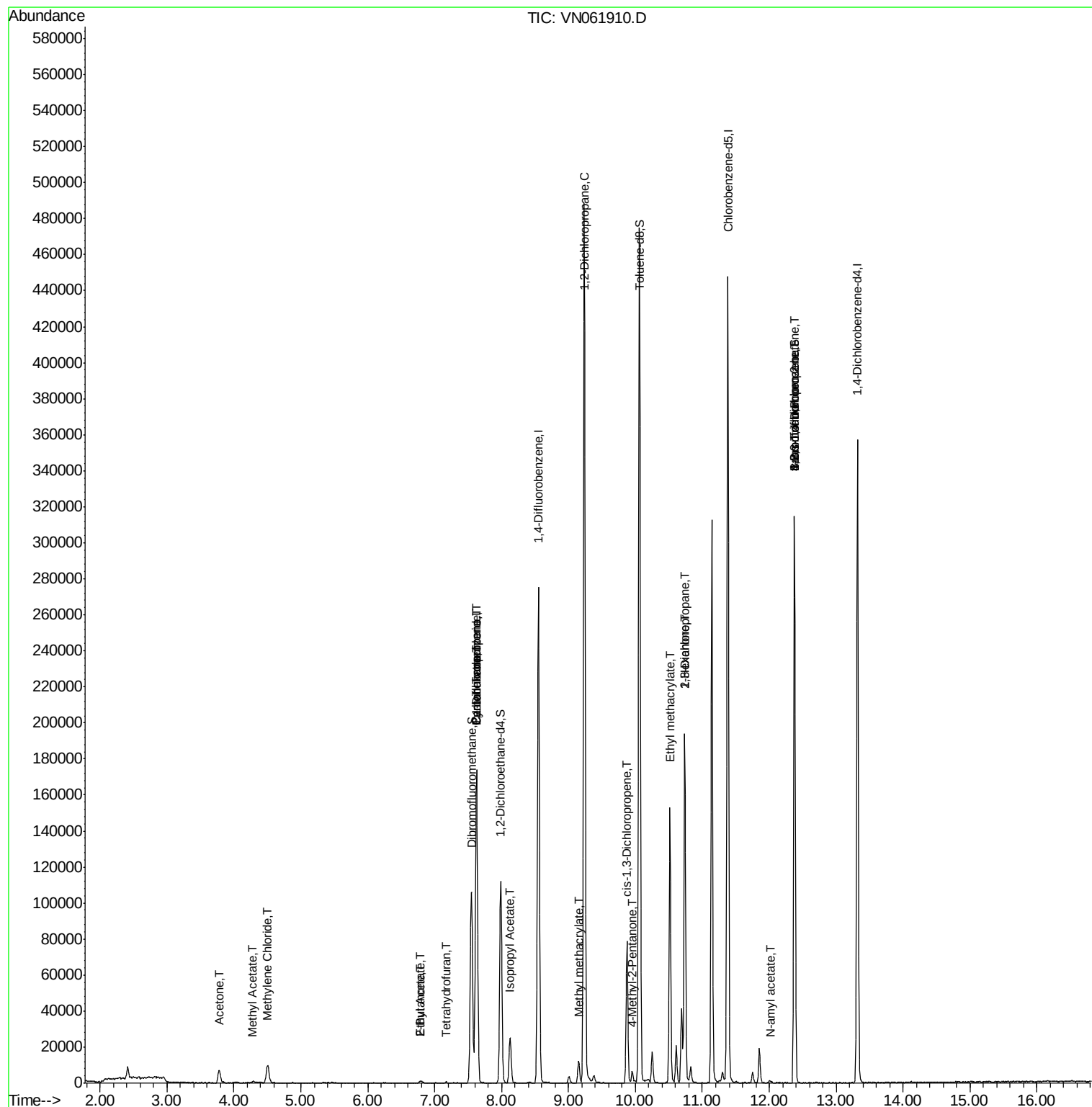
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	138564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	260090	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	264673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	97193	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	95308	51.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.58%	
35) Dibromofluoromethane	7.55	113	84286	50.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.32%	
50) Toluene-d8	10.06	98	333678	51.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.02%	
62) 4-Bromofluorobenzene	12.38	95	108200	48.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.44%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	12344	22.488	ug/l	98
18) Methyl Acetate	4.29	43	1520	0.962	ug/l #	58
20) Methylene Chloride	4.51	84	8265	4.621	ug/l	97
25) 2-Butanone	6.79	43	1343	1.677	ug/l	91
29) Tetrahydrofuran	7.17	42	502	0.952	ug/l #	26
31) Cyclohexane	7.63	56	2908	1.187	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	10444	4.402	ug/l #	46
37) Ethyl Acetate	6.79	43	1343	0.725	ug/l #	65
38) Carbon Tetrachloride	7.63	117	13916	5.924	ug/l #	17
43) Isopropyl Acetate	8.13	43	28044	8.983	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	529	0.300	ug/l #	43
48) Methyl methacrylate	9.15	41	1844	1.299	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	3725	2.019	ug/l	95
54) cis-1,3-Dichloropropene	9.88	75	14865	5.063	ug/l #	67
56) Ethyl methacrylate	10.52	69	630	3.121	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2121	0.705	ug/l #	42
59) 2-Hexanone	10.74	43	25427	29.733	ug/l #	49
71) Bromoform	12.38	173	741	0.522	ug/l #	1
74) N-amyl acetate	12.04	43	329	3.188	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	54548	28.587	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	54548	77.969	ug/l #	14

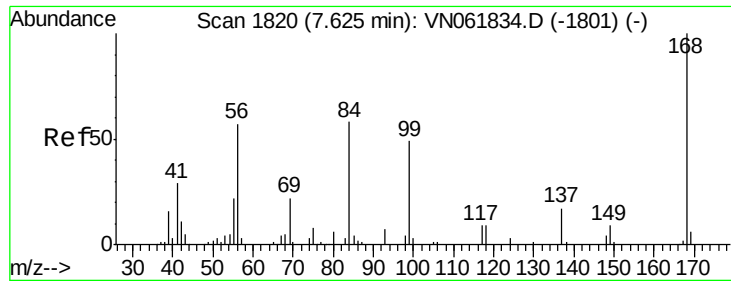
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN061910.D

Acq: 18 Jun 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

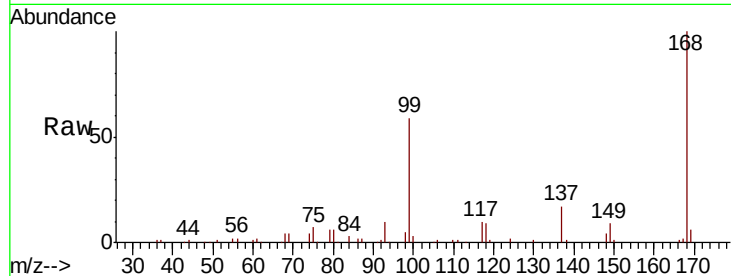
RO-21

Tot Ion:168 Resp: 138564

Ion Ratio Lower Upper

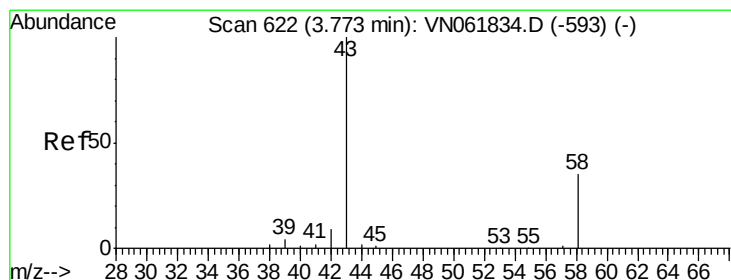
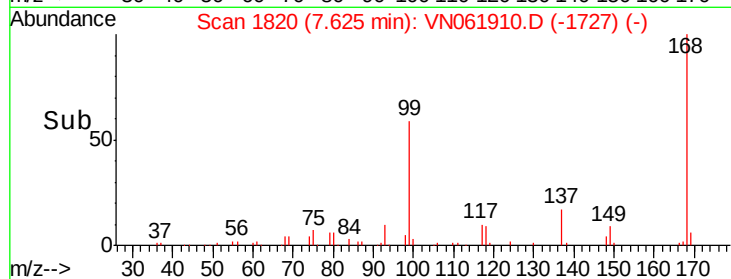
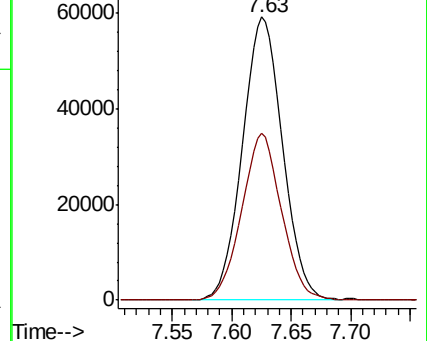
168 100

99 59.1 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 22.488 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061910.D

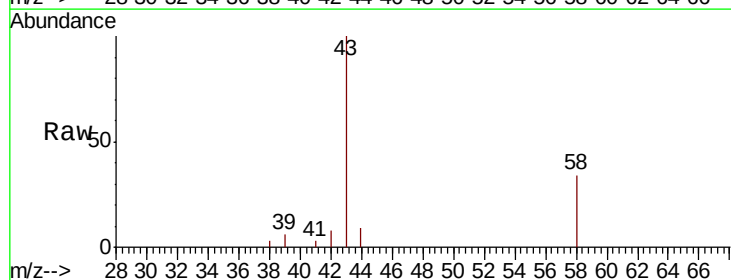
Acq: 18 Jun 2020 19:16

Tgt Ion: 43 Resp: 12344

Ion Ratio Lower Upper

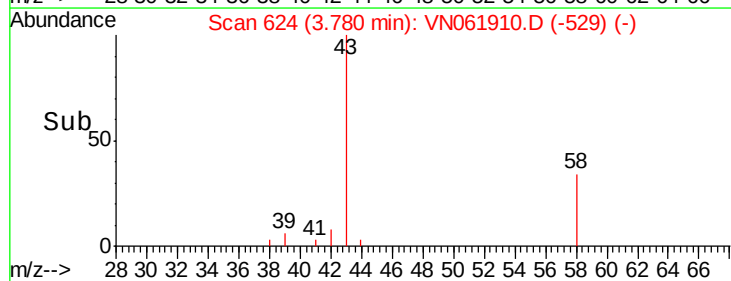
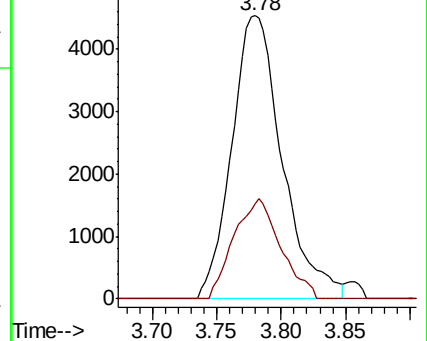
43 100

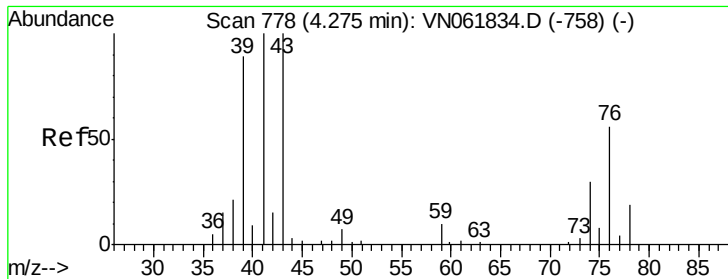
58 33.8 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

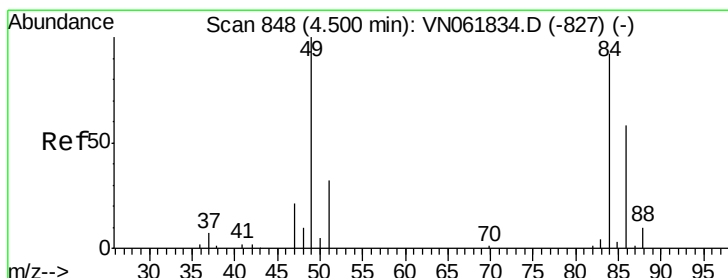
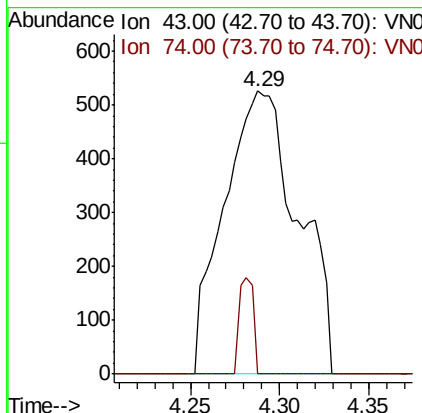
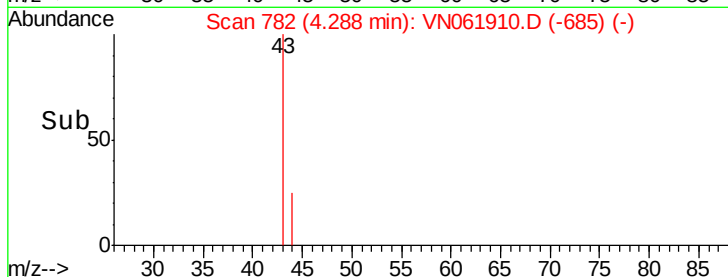
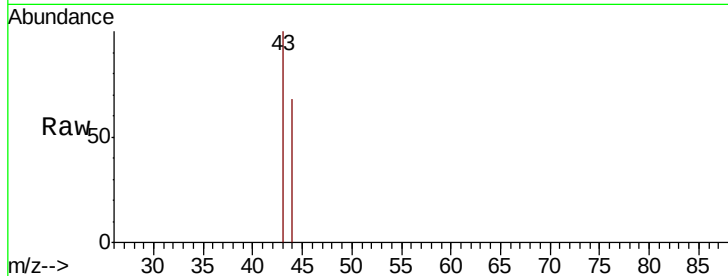




#18
Methvl Acetate
Concen: 0.962 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN061910.D
Acq: 18 Jun 2020 19:16

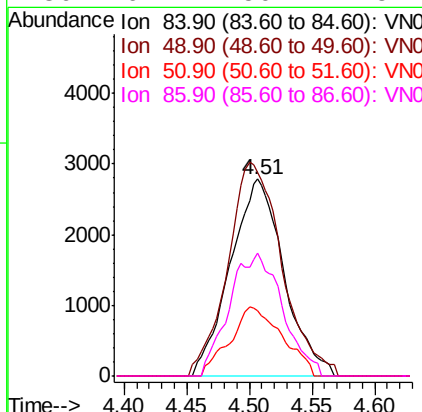
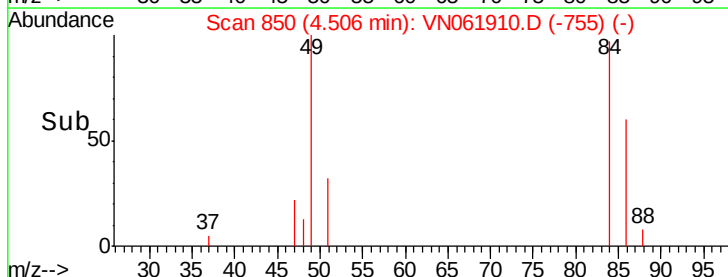
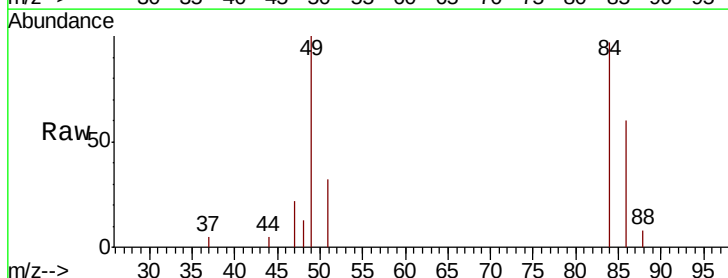
Instrument :
MSVOA_N
ClientSampleId :
RO-21

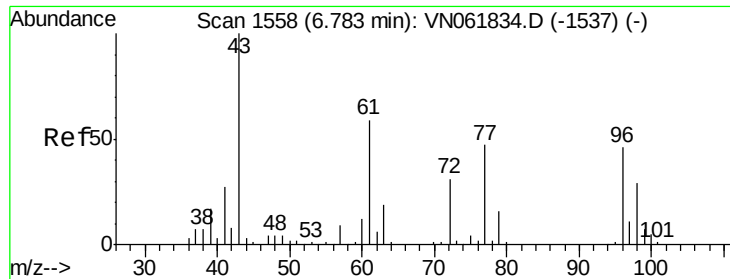
Tot Ion: 43 Resp: 1520
Ion Ratio Lower Upper
43 100
74 6.4 23.0 34.4#



#20
Methylene Chloride
Concen: 4.621 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061910.D
Acq: 18 Jun 2020 19:16

Tgt Ion: 84 Resp: 8265
Ion Ratio Lower Upper
84 100
49 103.4 87.0 130.4
51 32.9 27.8 41.6
86 62.2 50.2 75.2

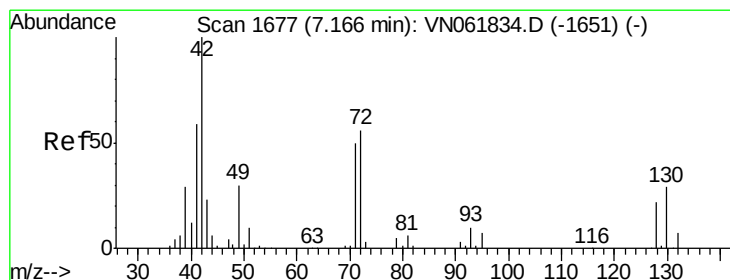
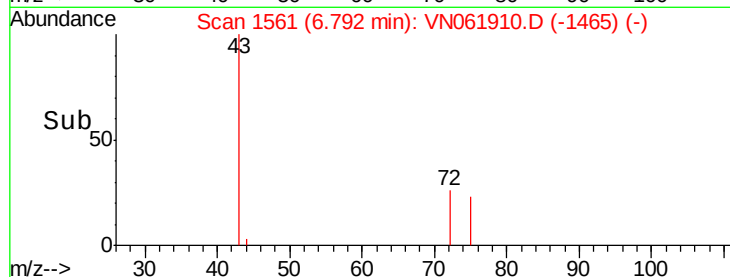
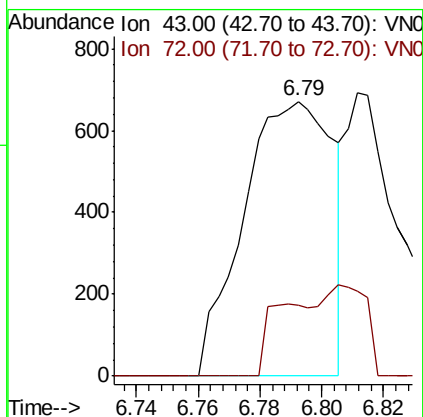
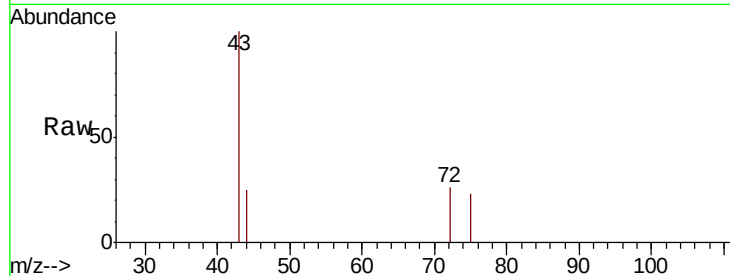




#25
2-Butanone
Concen: 1.677 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN061910.D
Acq: 18 Jun 2020 19:16

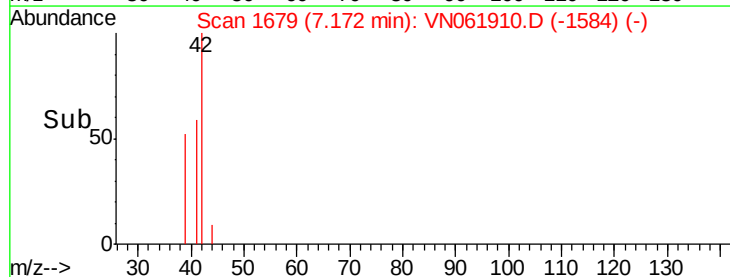
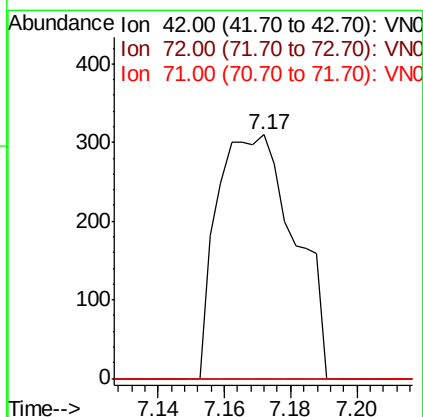
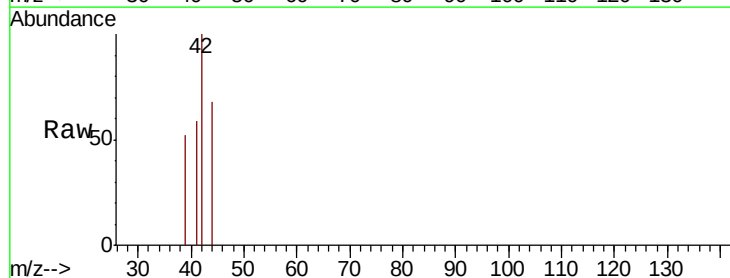
Instrument :
MSVOA_N
ClientSampled :
RO-21

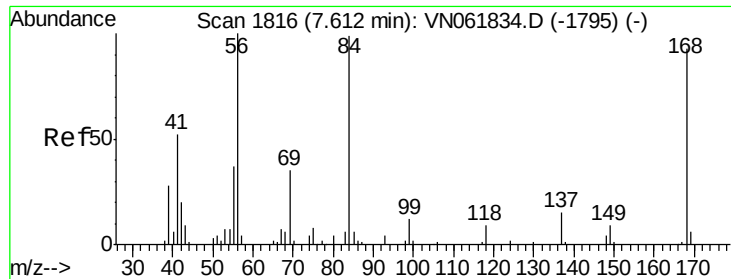
Tot Ion: 43 Resp: 1343
Ion Ratio Lower Upper
43 100
72 25.9 24.6 37.0



#29
Tetrahydrofuran
Concen: 0.952 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN061910.D
Acq: 18 Jun 2020 19:16

Tgt Ion: 42 Resp: 502
Ion Ratio Lower Upper
42 100
72 0.0 44.0 66.0#
71 0.0 40.0 60.0#

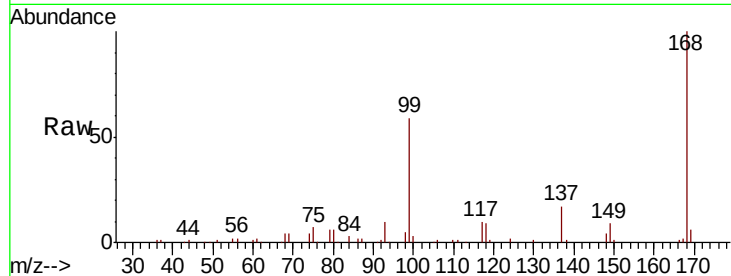




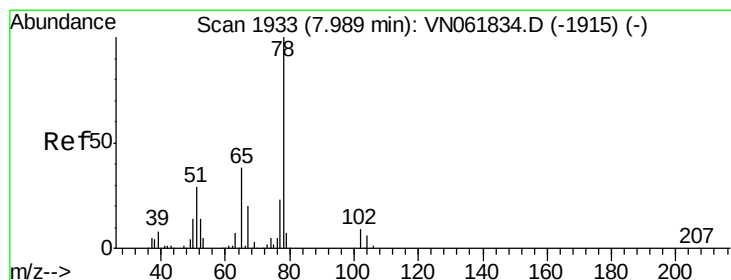
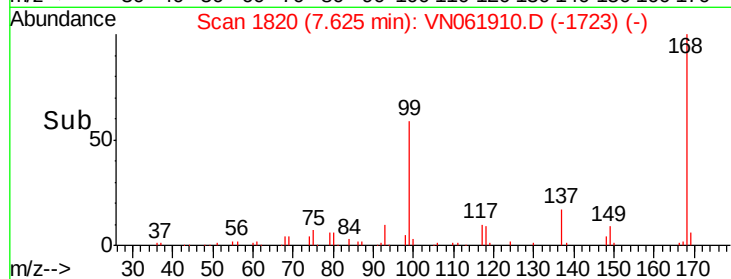
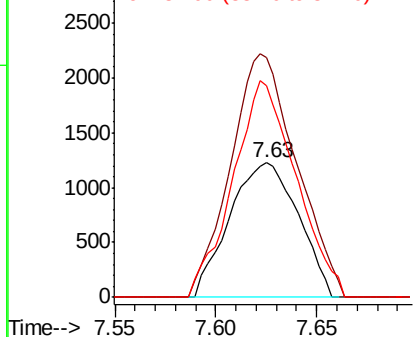
#31
Cyclohexane
Concen: 1.187 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061910.D
Acq: 18 Jun 2020 19:16

Instrument :
MSVOA_N
ClientSampleId :
RO-21

Tot Ion: 56 Resp: 2908
Ion Ratio Lower Upper
56 100
69 178.5 27.7 41.5#
84 156.9 79.1 118.7#

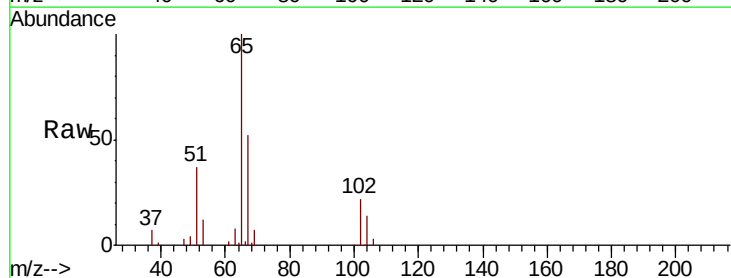


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

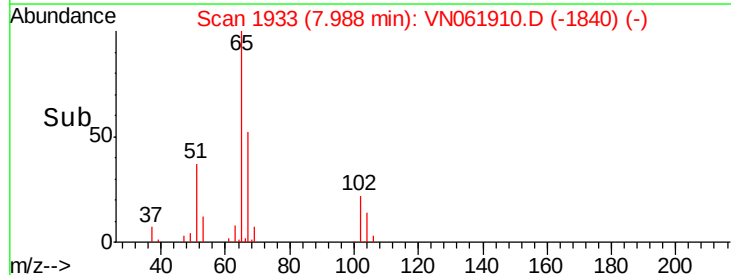
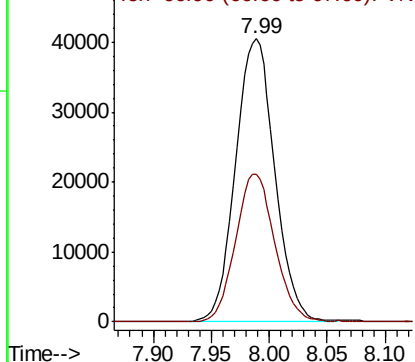


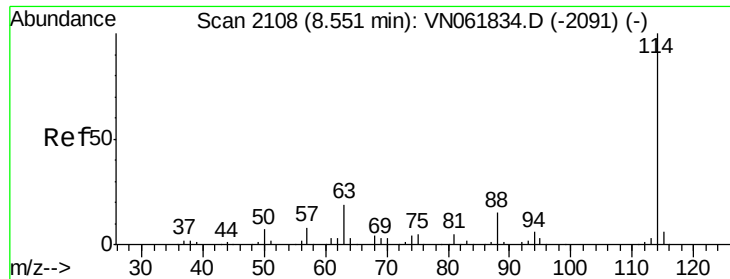
#33
1,2-Dichloroethane-d4
Concen: 51.286 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. -0.00 min
Lab File: VN061910.D
Acq: 18 Jun 2020 19:16

Tgt Ion: 65 Resp: 95308
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.2



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

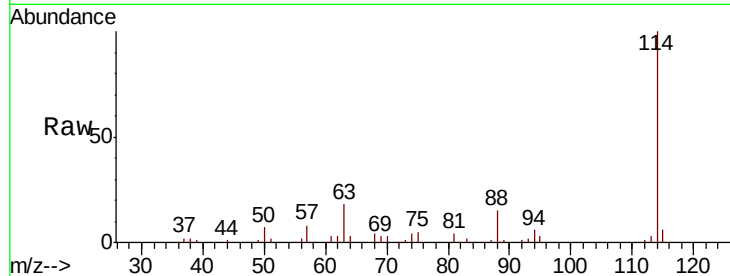




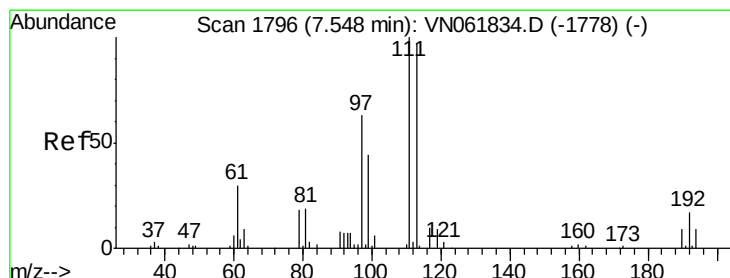
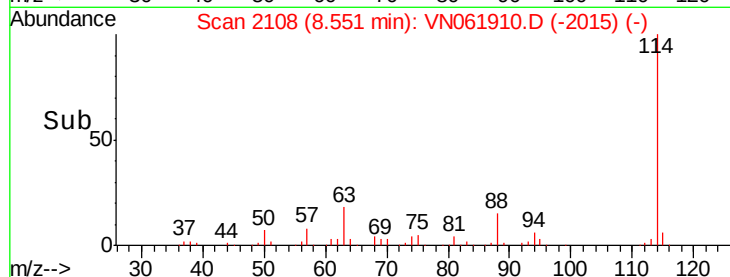
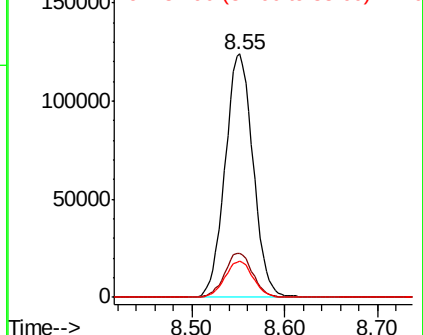
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061910.D
 Acq: 18 Jun 2020 19:16

Instrument :
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 RO-21

Tot Ion:114 Resp: 260090
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 37.6
 88 14.9 0.0 31.0

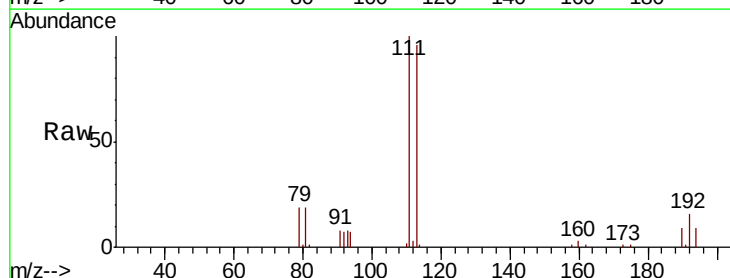


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

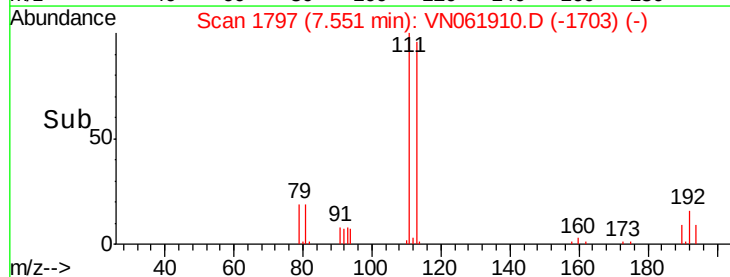
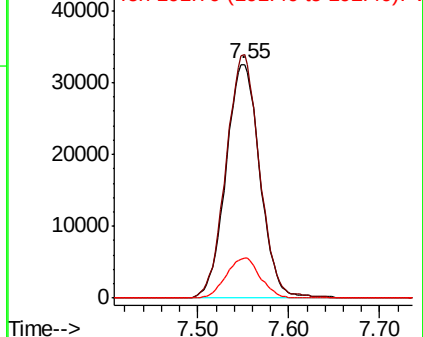


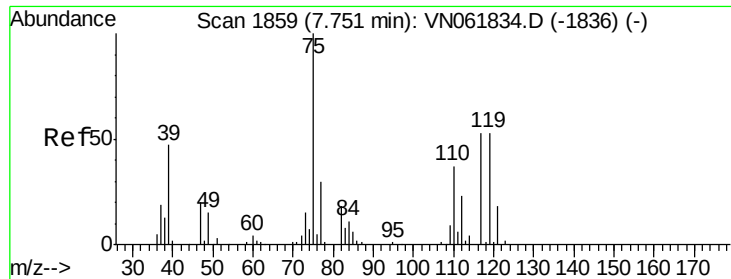
#35
 Dibromofluoromethane
 Concen: 50.655 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061910.D
 Acq: 18 Jun 2020 19:16

Tgt Ion:113 Resp: 84286
 Ion Ratio Lower Upper
 113 100
 111 102.7 83.7 125.5
 192 17.1 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: 4.402 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061910.D

Acq: 18 Jun 2020 19:16

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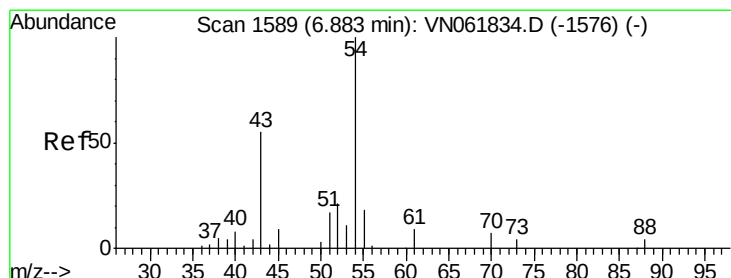
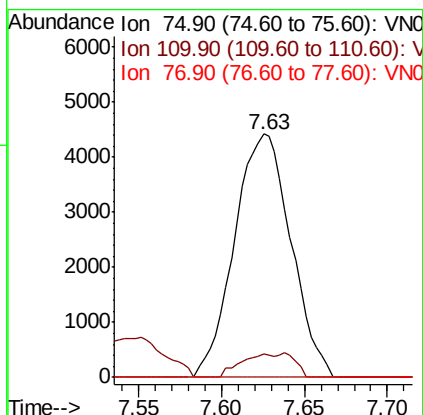
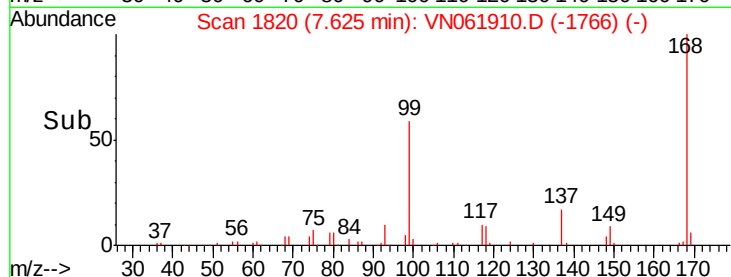
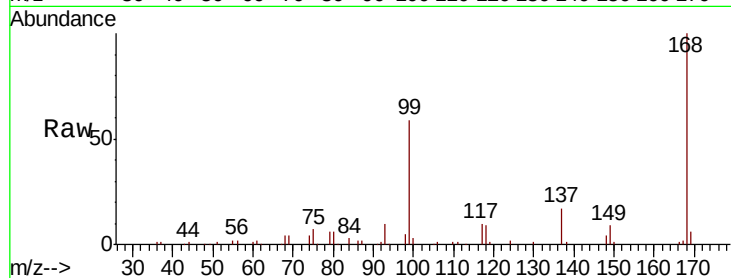
Tot Ion: 75 Resp: 10444

Ion Ratio Lower Upper

75 100

110 5.8 18.2 54.6#

77 0.0 24.2 36.4#



#37

Ethyl Acetate

Concen: 0.725 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.09 min

Lab File: VN061910.D

Acq: 18 Jun 2020 19:16

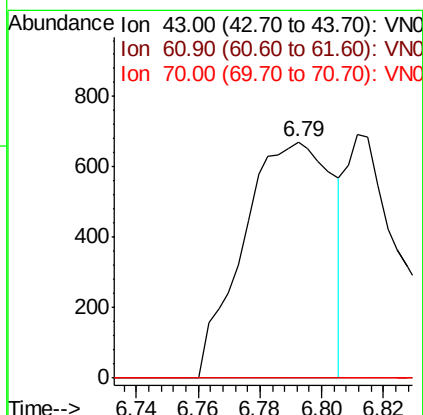
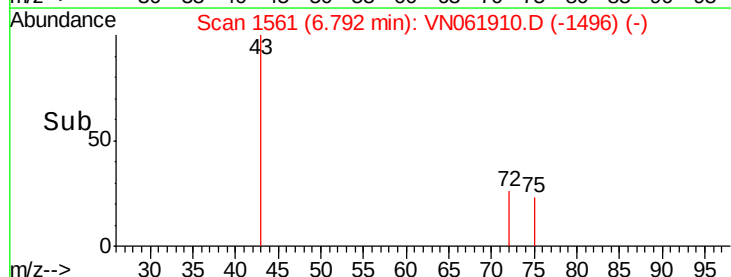
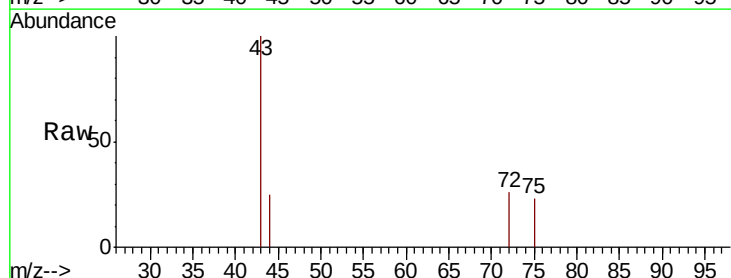
Tgt Ion: 43 Resp: 1343

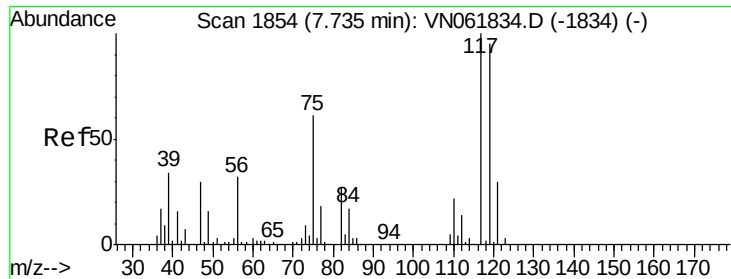
Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.4#

70 0.0 9.4 14.2#





#38

Carbon Tetrachloride

Concen: 5.924 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061910.D

Acq: 18 Jun 2020 19:16

Instrument :

MSVOA_N

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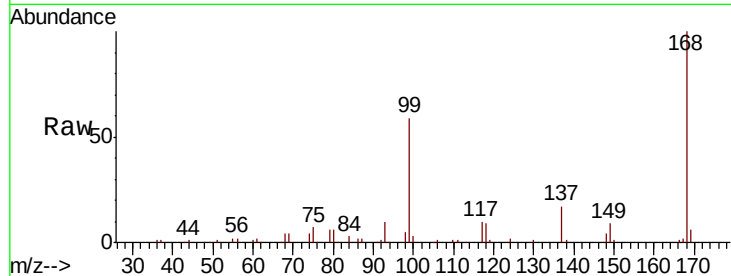
Tot Ion:117 Resp: 13916

Ion Ratio Lower Upper

117 100

119 5.5 75.8 113.6#

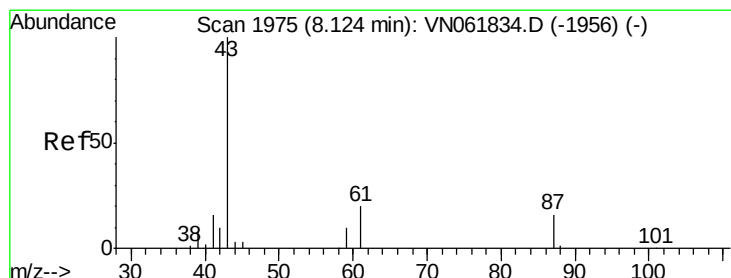
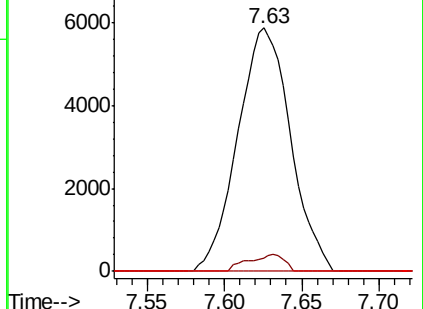
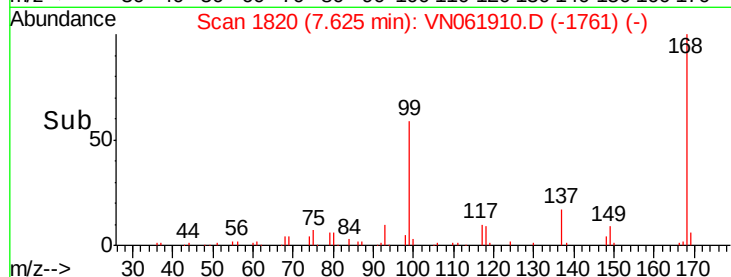
121 0.0 23.8 35.6#



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



#43

Isopropyl Acetate

Concen: 8.983 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061910.D

Acq: 18 Jun 2020 19:16

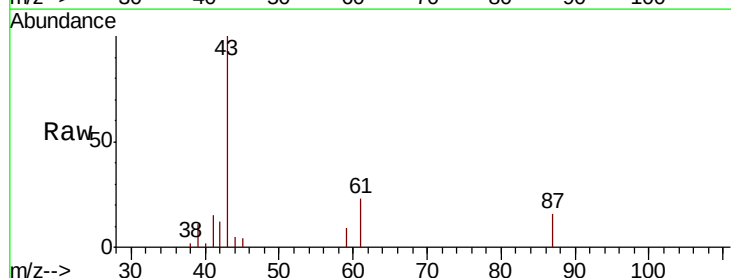
Tgt Ion: 43 Resp: 28044

Ion Ratio Lower Upper

43 100

61 22.9 24.0 36.0#

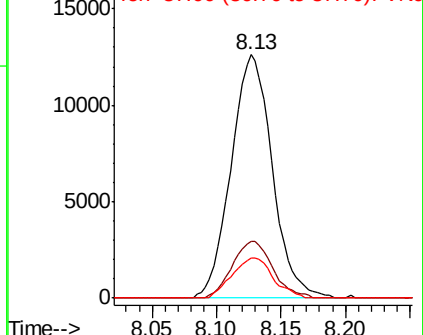
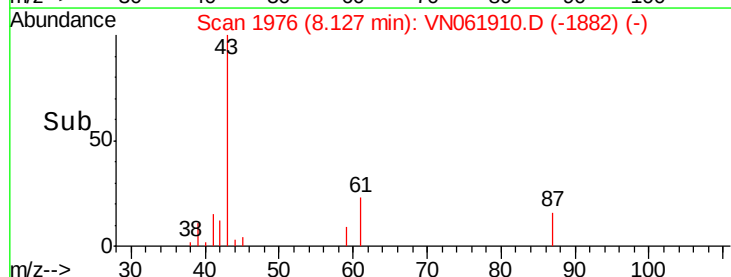
87 16.3 12.5 18.7

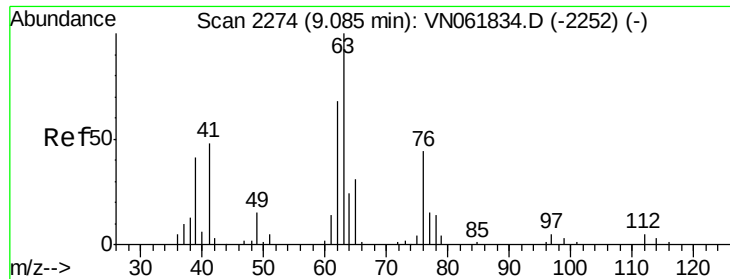


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

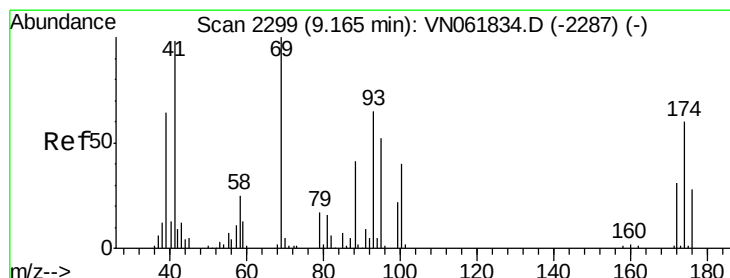
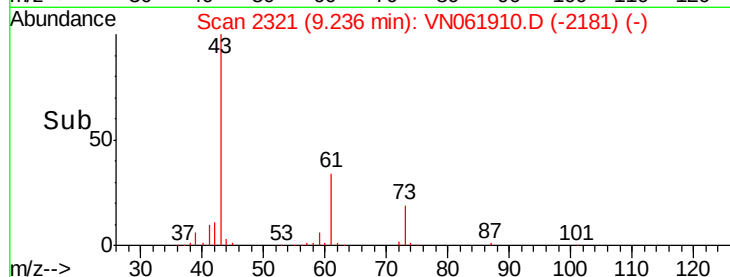
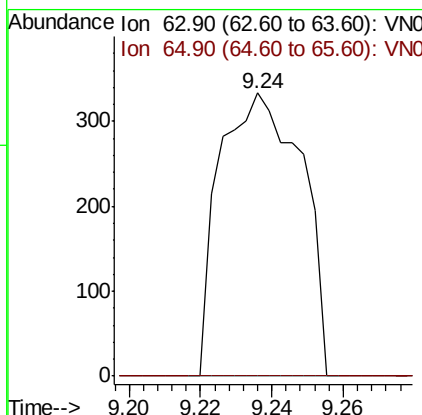
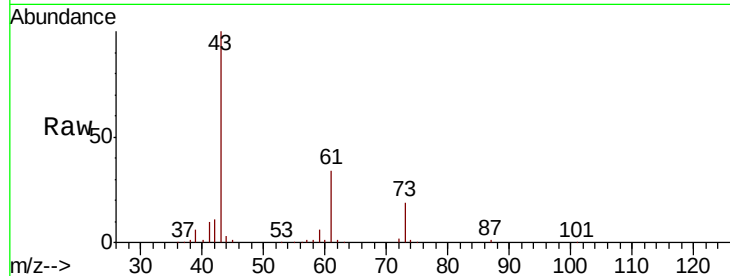




#45
 1,2-Dichloropropane
 Concen: 0.300 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN061910.D
 Acq: 18 Jun 2020 19:16

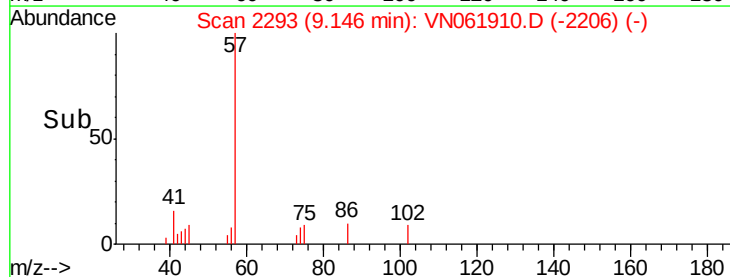
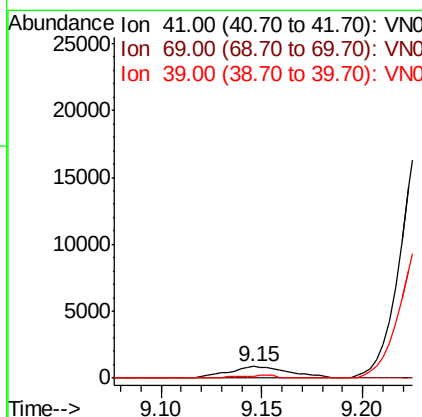
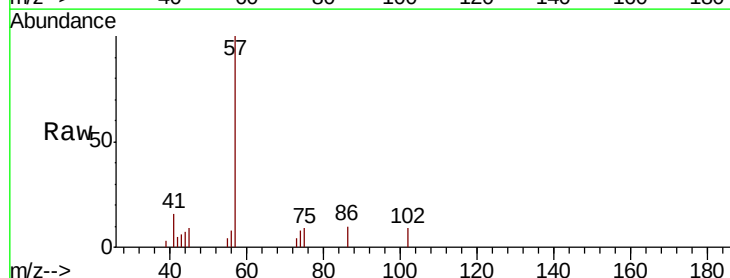
Instrument :
 MSVOA_N
 ClientSampled :
 RO-21

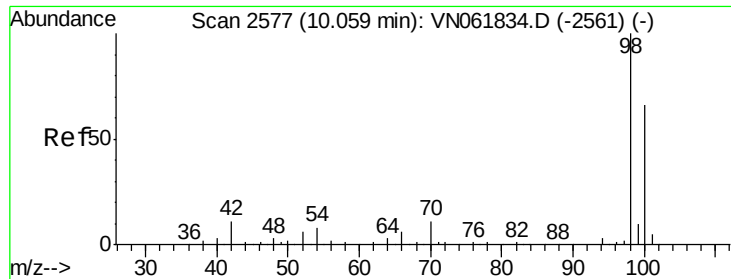
Tot Ion: 63 Resp: 529
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.1 37.7#



#48
 Methyl methacrylate
 Concen: 1.299 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN061910.D
 Acq: 18 Jun 2020 19:16

Tgt Ion: 41 Resp: 1844
 Ion Ratio Lower Upper
 41 100
 69 0.0 83.0 124.4#
 39 0.0 55.1 82.7#

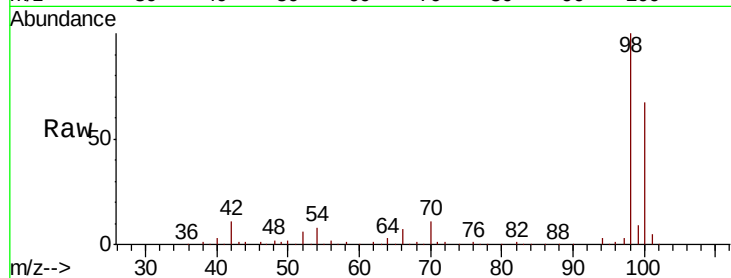




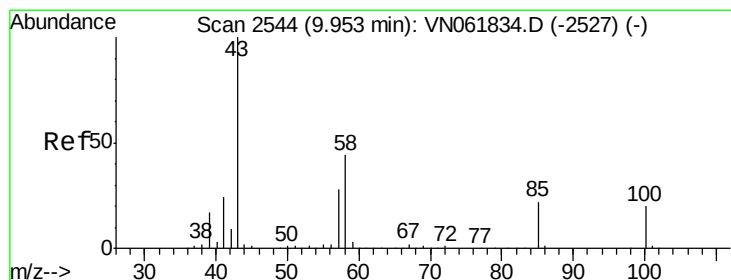
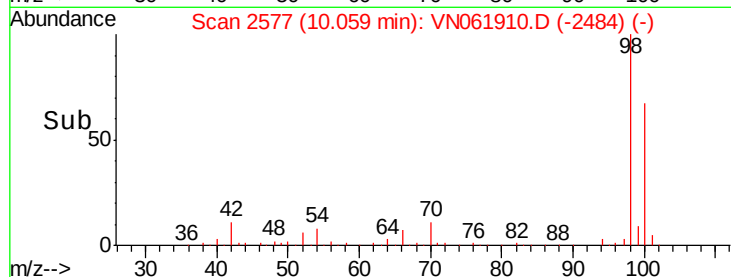
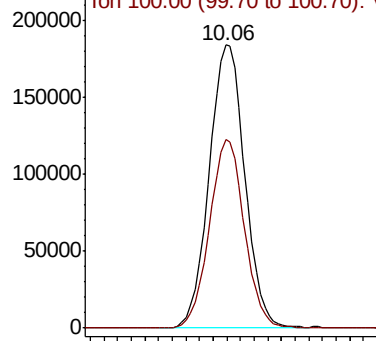
#50
Toluene-d8
Concen: 51.009 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061910.D
Acq: 18 Jun 2020 19:16

Instrument :
MSVOA_N
ClientSampled :
RO-21

Tot Ion: 98 Resp: 333678
Ion Ratio Lower Upper
98 100
100 65.6 52.7 79.1

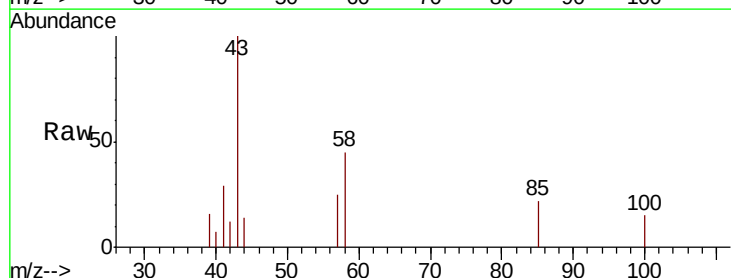


Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN

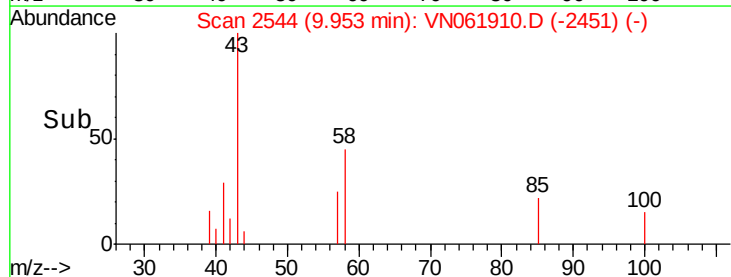
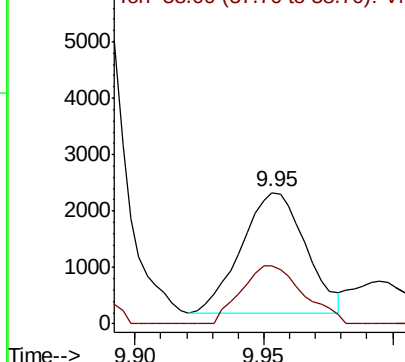


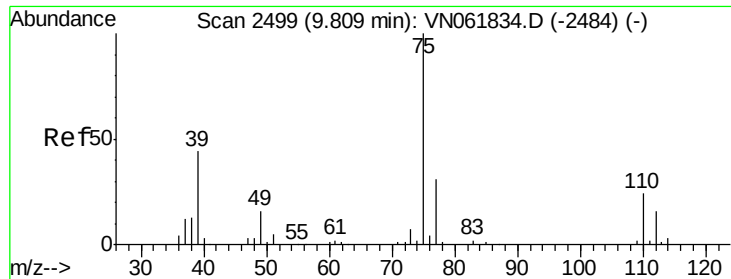
#51
4-Methyl-2-Pentanone
Concen: 2.019 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN061910.D
Acq: 18 Jun 2020 19:16

Tgt Ion: 43 Resp: 3725
Ion Ratio Lower Upper
43 100
58 46.7 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: 5.063 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN061910.D

Acq: 18 Jun 2020 19:16

Instrument :

MSVOA_N

ClientSampled :

RO-21

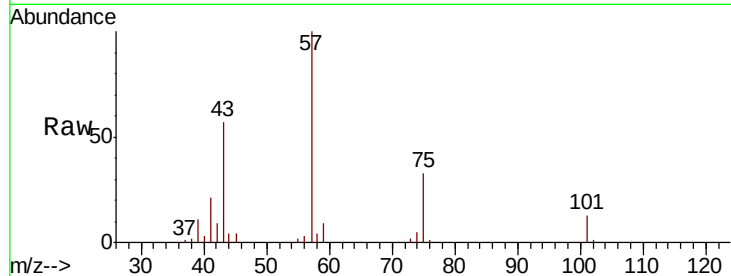
Tot Ion: 75 Resp: 14865

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

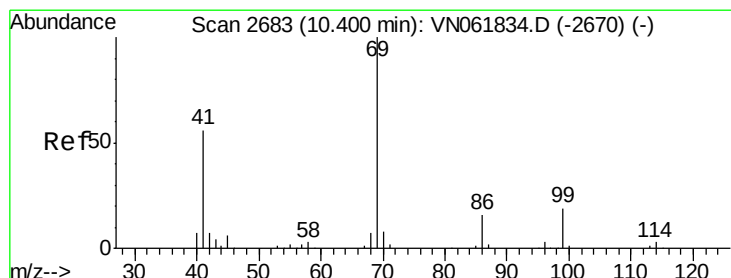
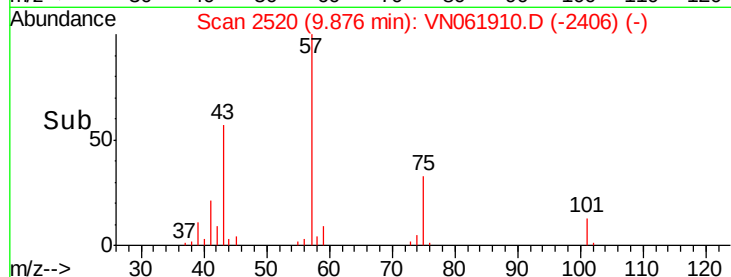
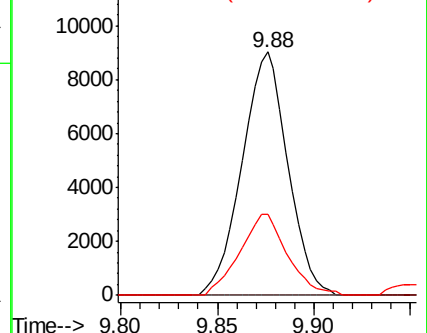
39 33.1 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061910.D (-2520) (-)

Ion 76.90 (76.60 to 77.60): VN061910.D (-2520) (-)

Ion 39.00 (38.70 to 39.70): VN061910.D (-2520) (-)



#56

Ethyl methacrylate

Concen: 3.121 ug/l

RT: 10.52 min Scan# 2721

Delta R.T. 0.12 min

Lab File: VN061910.D

Acq: 18 Jun 2020 19:16

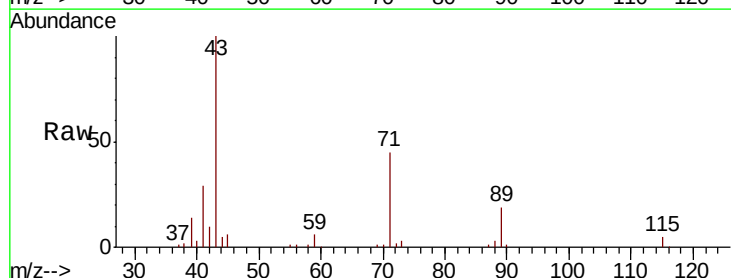
Tgt Ion: 69 Resp: 630

Ion Ratio Lower Upper

69 100

41 4527.8 44.9 67.3#

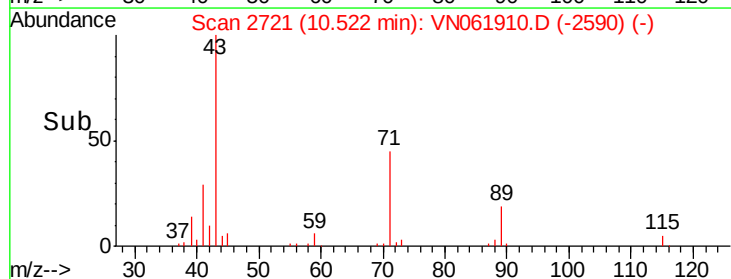
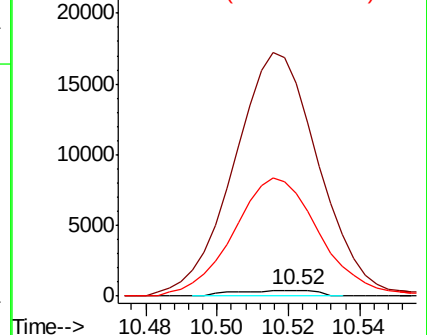
39 2224.0 30.0 45.0#

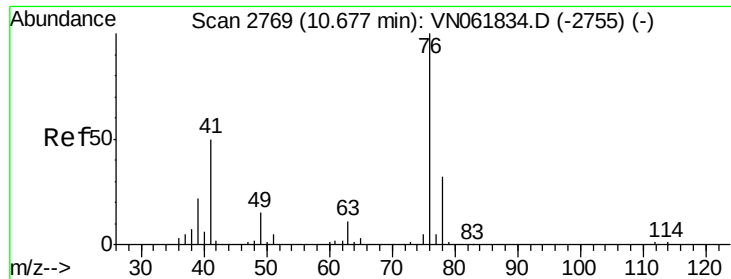


Abundance Ion 69.00 (68.70 to 69.70): VN061910.D (-2721) (-)

Ion 41.00 (40.70 to 41.70): VN061910.D (-2721) (-)

Ion 39.00 (38.70 to 39.70): VN061910.D (-2721) (-)

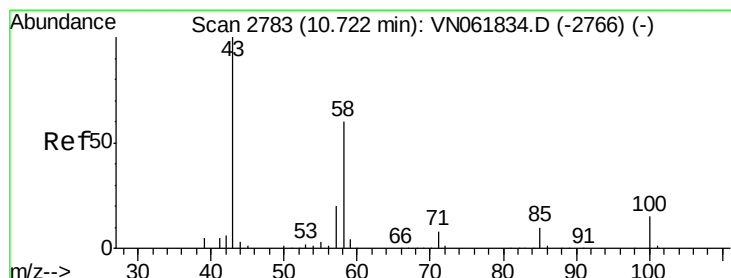
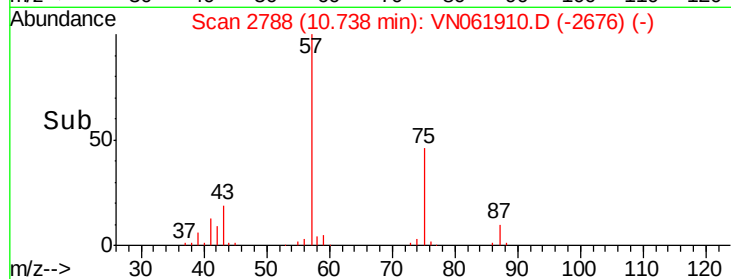
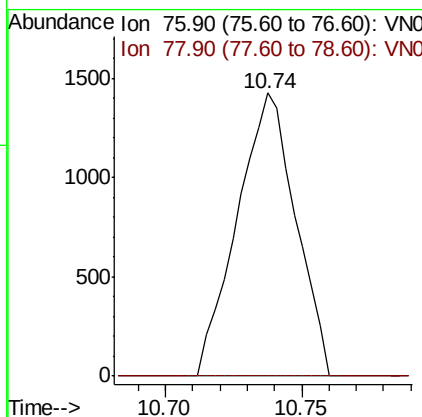
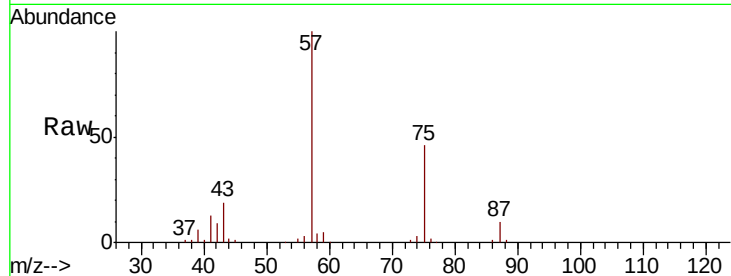




#57
 1,3-Dichloropropane
 Concen: 0.705 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061910.D
 Acq: 18 Jun 2020 19:16

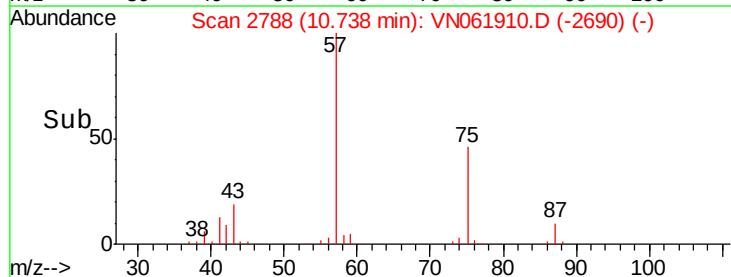
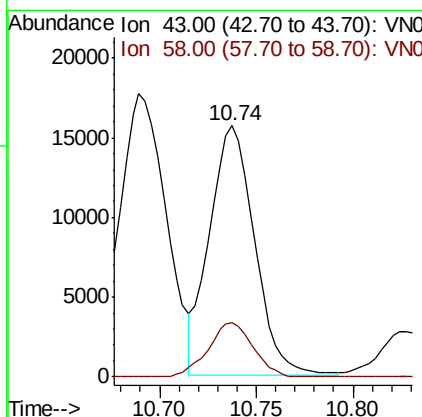
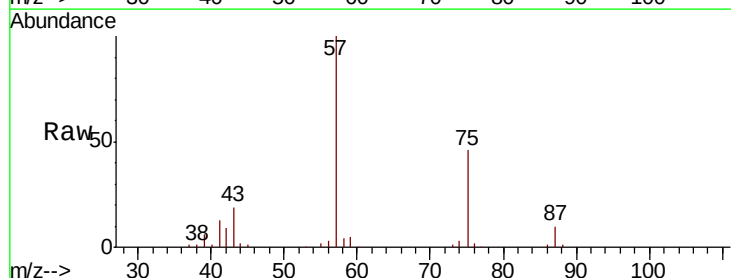
Instrument :
 MSVOA_N
 ClientSampled :
 RO-21

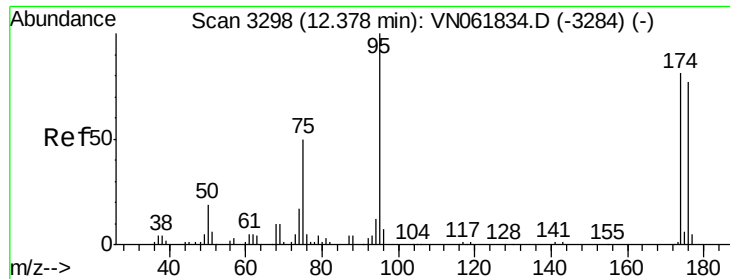
Tot Ion: 76 Resp: 2121
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 29.733 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061910.D
 Acq: 18 Jun 2020 19:16

Tgt Ion: 43 Resp: 25427
 Ion Ratio Lower Upper
 43 100
 58 21.5 30.1 90.5#

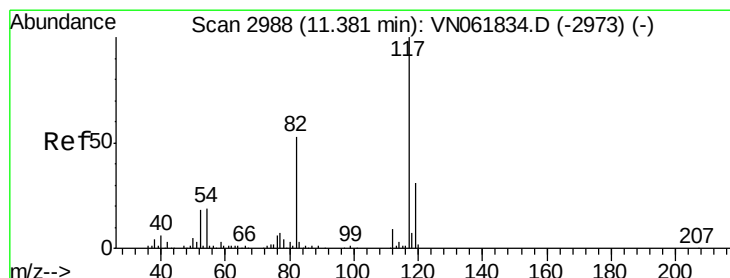
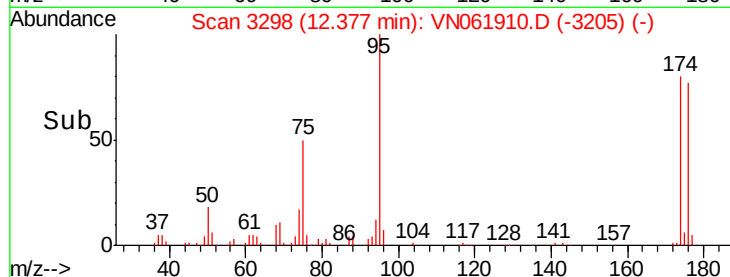
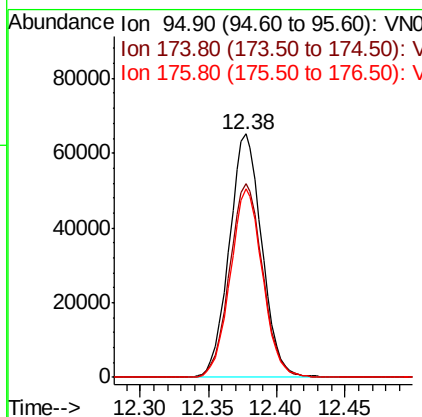
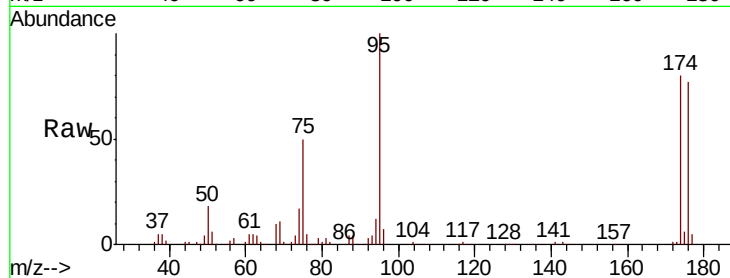




#62
 4-Bromofluorobenzene
 Concen: 48.221 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.00 min
 Lab File: VN061910.D
 Acq: 18 Jun 2020 19:16

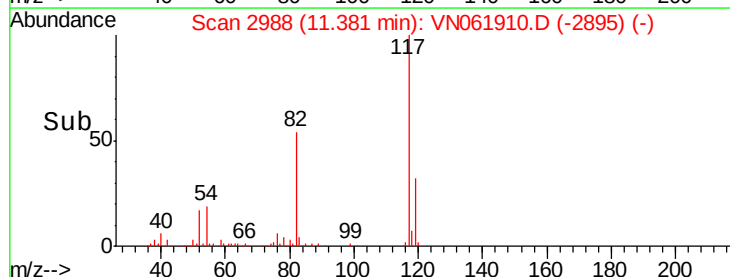
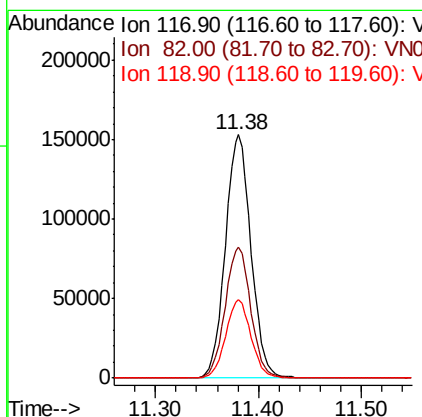
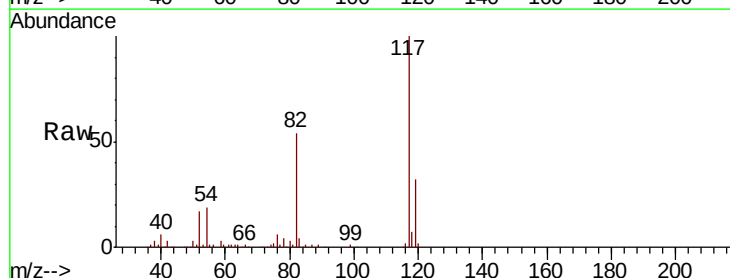
Instrument :
 MSVOA_N
 ClientSampleId :
 RO-21

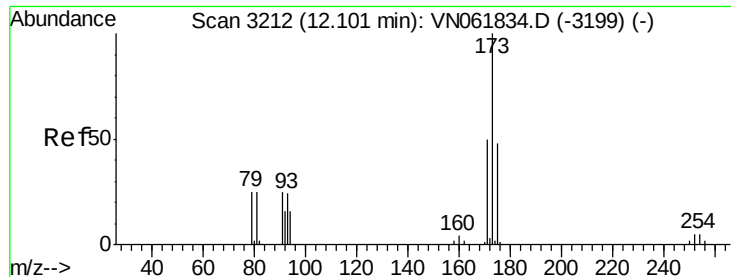
Tot Ion: 95 Resp: 108200
 Ion Ratio Lower Upper
 95 100
 174 80.7 0.0 158.6
 176 76.4 0.0 152.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. -0.00 min
 Lab File: VN061910.D
 Acq: 18 Jun 2020 19:16

Tgt Ion: 117 Resp: 264673
 Ion Ratio Lower Upper
 117 100
 82 53.8 42.6 64.0
 119 32.4 24.7 37.1





#71

Bromoform

Concen: 0.522 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061910.D

Acq: 18 Jun 2020 19:16

Instrument :

MSVOA_N

ClientSampled :

RO-21

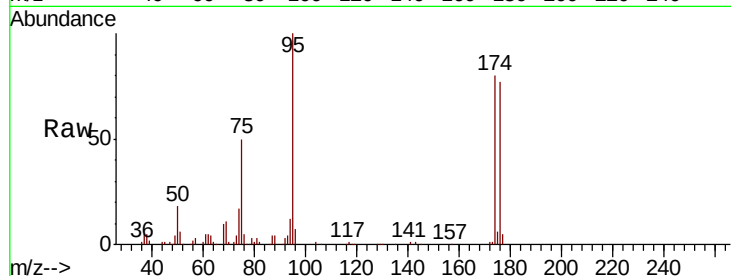
Tot Ion:173 Resp: 741

Ion Ratio Lower Upper

173 100

175 758.3 23.9 71.7#

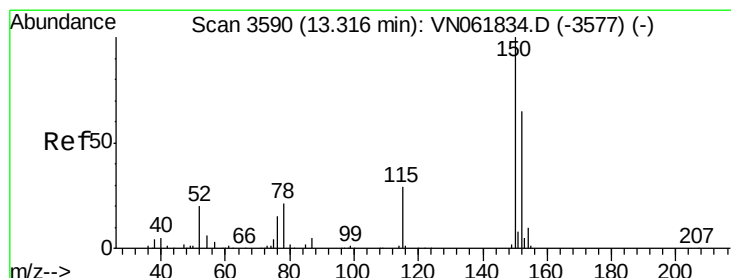
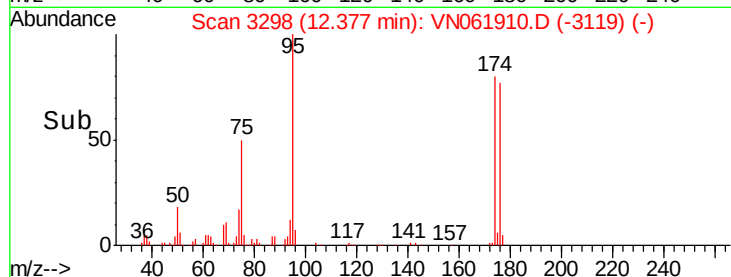
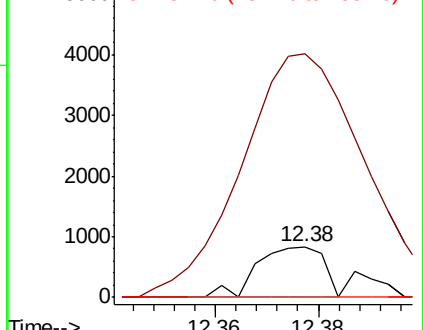
254 0.0 0.0 0.0



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: VN061910.D

Acq: 18 Jun 2020 19:16

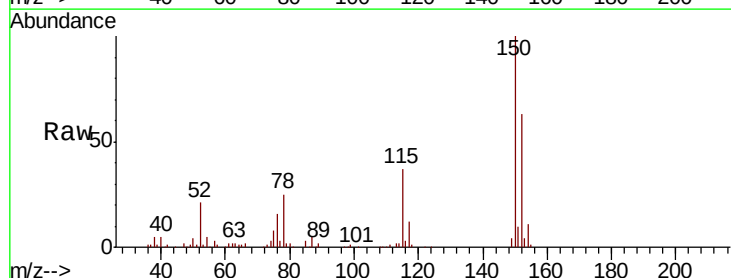
Tgt Ion:152 Resp: 97193

Ion Ratio Lower Upper

152 100

115 58.7 29.1 87.3

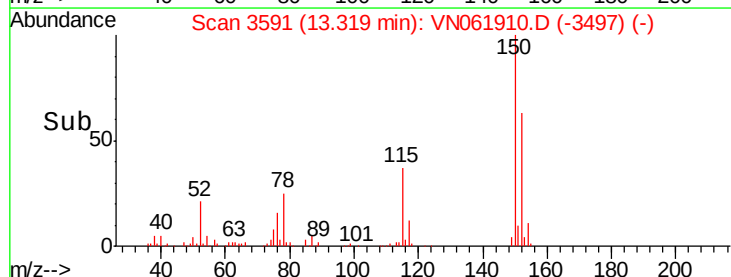
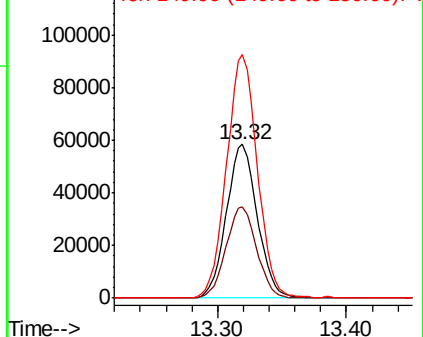
150 157.6 0.0 347.6

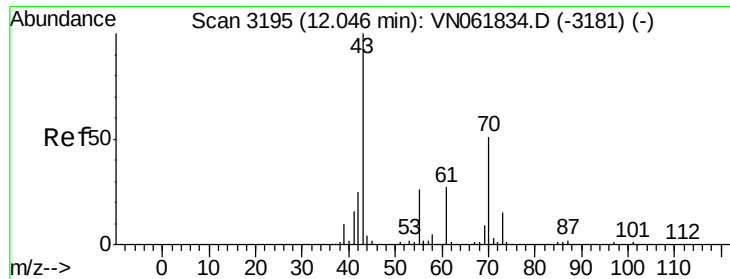


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.188 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.01 min

Lab File: VN061910.D

Acq: 18 Jun 2020 19:16

Instrument :

MSVOA_N

ClientSampled :

RO-21

Tot Ion: 43 Resp: 329

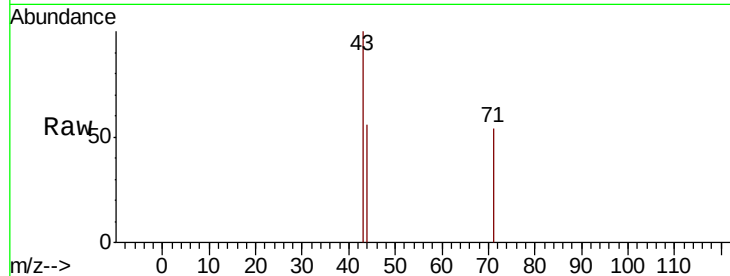
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

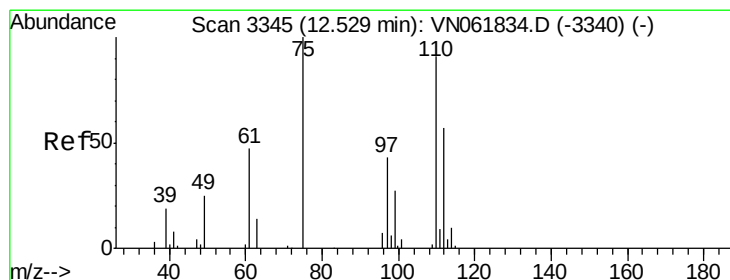
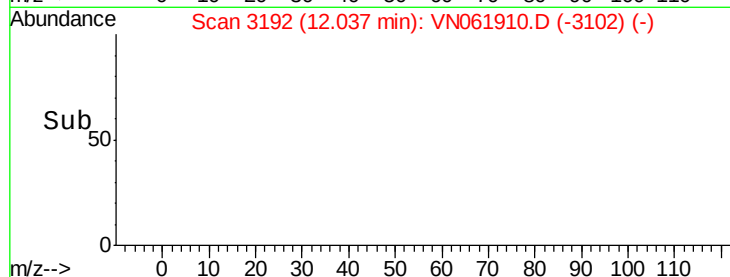
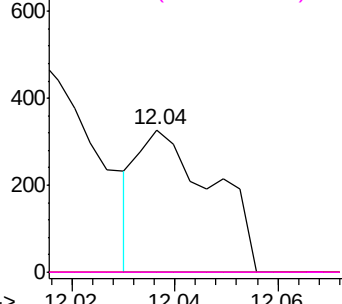


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.587 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061910.D

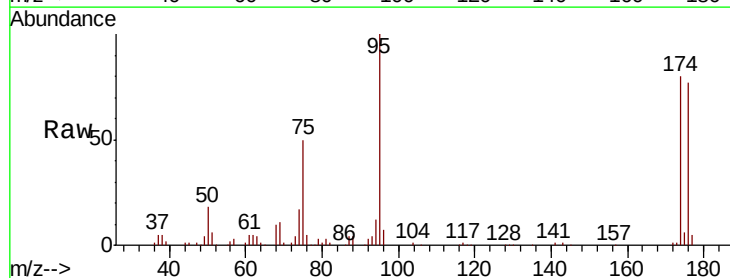
Acq: 18 Jun 2020 19:16

Tgt Ion: 75 Resp: 54548

Ion Ratio Lower Upper

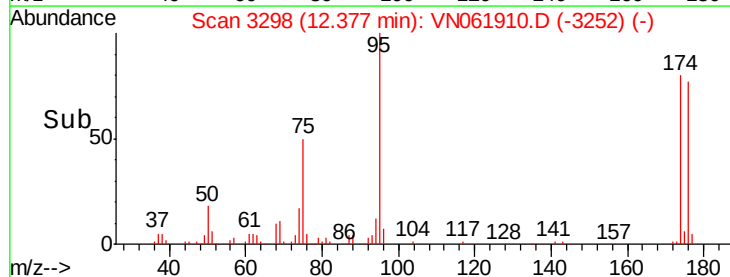
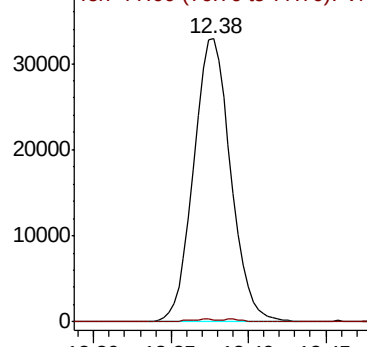
75 100

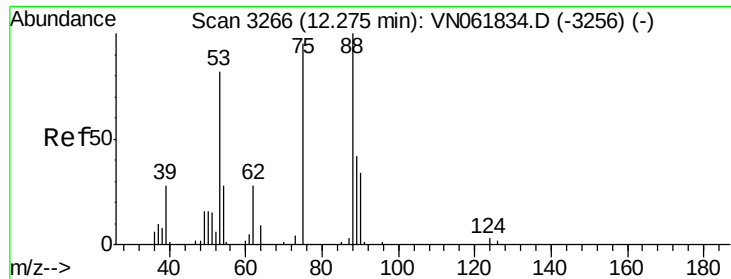
77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 77.969 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061910.D

Acq: 18 Jun 2020 19:16

Instrument :

MSVOA_N

ClientSampleId :

RO-21

Tot Ion: 75 Resp: 54548

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#

