

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061023.D
 Acq On : 16 Apr 2020 19:43
 Operator : JC/MD
 Sample : L2284-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-12-DA

Quant Time: Apr 17 04:00:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	175732	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	296211	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	274660	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	120383	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	116627	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
35) Dibromofluoromethane	7.56	113	88214	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
50) Toluene-d8	10.08	98	366198	56.02	ug/l	0.00
Spiked Amount			Recovery	=	112.04%	
62) 4-Bromofluorobenzene	12.39	95	134032	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	

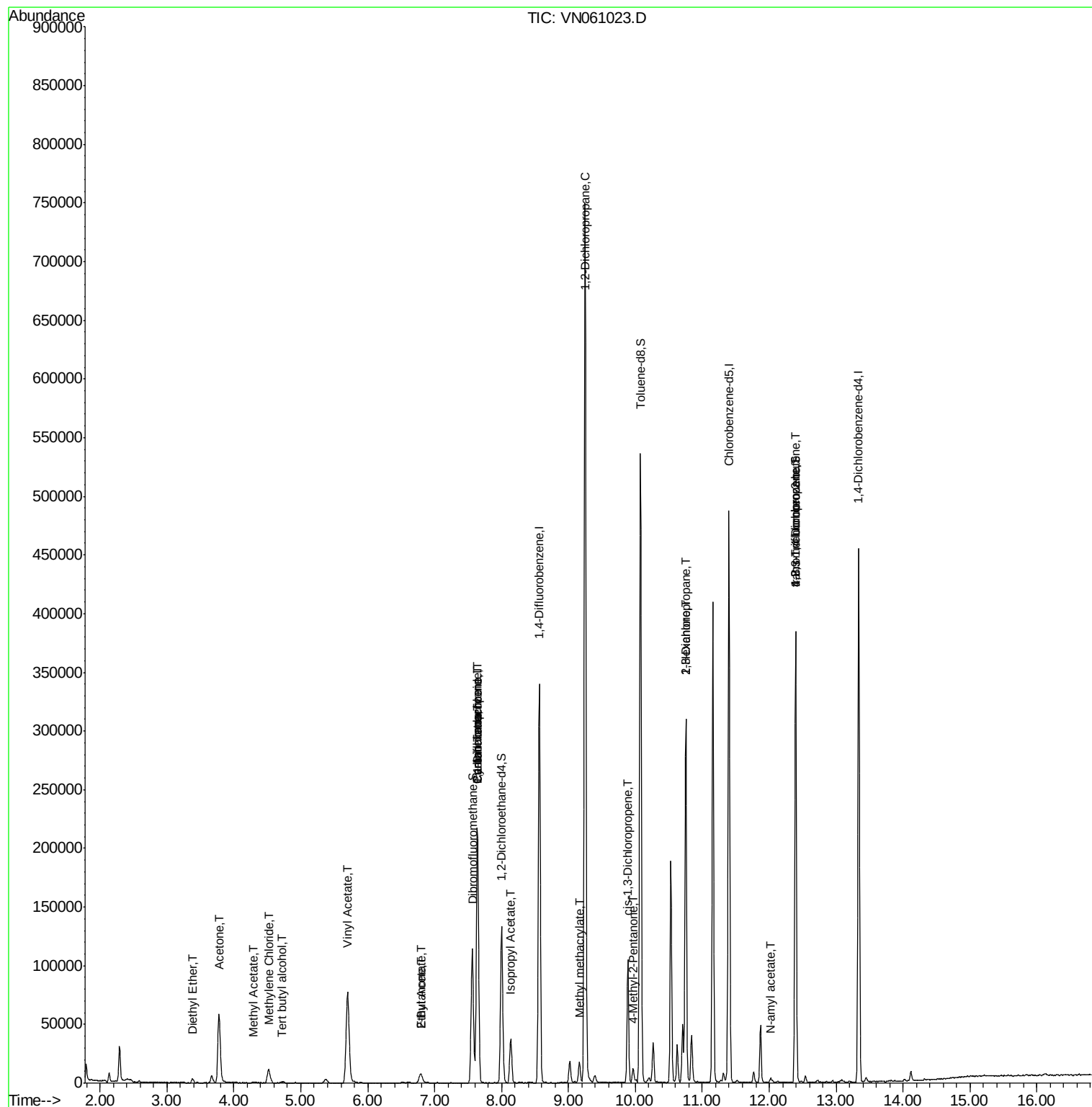
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.38	74	1720	1.342	ug/l	91
11) Tert butyl alcohol	4.73	59	2379	5.964	ug/l #	73
16) Acetone	3.78	43	101441	102.504	ug/l	100
18) Methyl Acetate	4.29	43	1736	0.559	ug/l #	54
20) Methylene Chloride	4.52	84	9358	4.331	ug/l	96
23) Vinyl Acetate	5.69	43	1650	0.278	ug/l #	75
25) 2-Butanone	6.80	43	13802	9.101	ug/l	99
31) Cyclohexane	7.64	56	3843	0.918	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14097	4.612	ug/l #	50
37) Ethyl Acetate	6.80	43	13802	4.158	ug/l #	69
38) Carbon Tetrachloride	7.64	117	16873	6.632	ug/l #	15
43) Isopropyl Acetate	8.14	43	45328	8.397	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	841	0.343	ug/l #	43
48) Methyl methacrylate	9.16	41	2816	1.180	ug/l #	14
51) 4-Methyl-2-Pentanone	9.97	43	8585	2.759	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	18362	4.856	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	2921	0.795	ug/l #	43
59) 2-Hexanone	10.75	43	48033	21.404	ug/l #	53
74) N-amyl acetate	12.02	43	2915	0.650	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	68573	25.897	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	68573	63.877	ug/l #	12

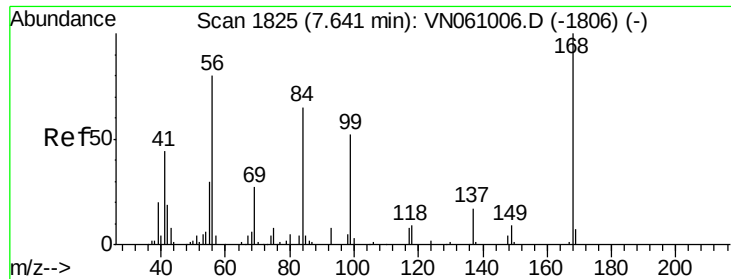
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Apr 17 03:49:39 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.00 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

ClientSampled :

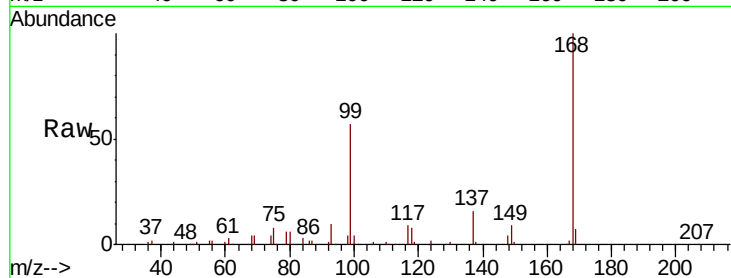
TP-12-DA

Tot Ion:168 Resp: 175732

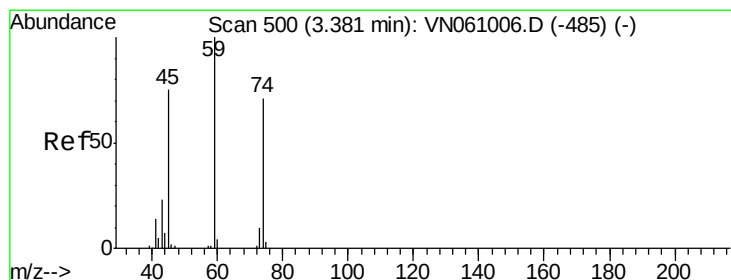
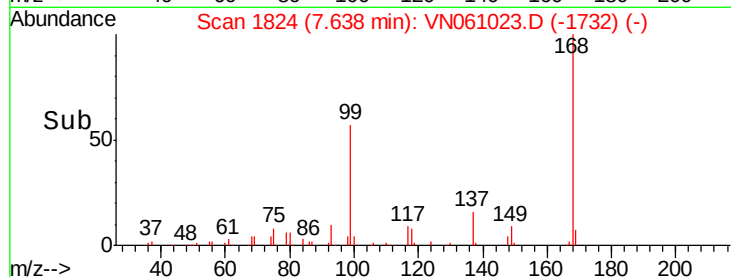
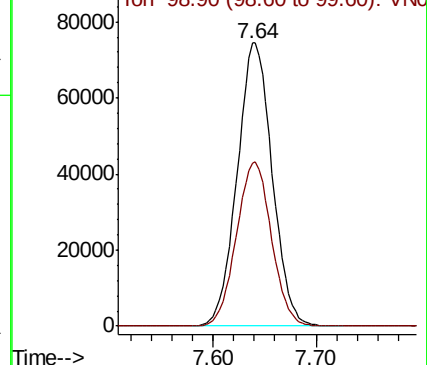
Ion Ratio Lower Upper

168 100

99 57.5 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN061006.D (-1806) (-)



#8

Diethyl Ether

Concen: 1.342 ug/l

RT: 3.38 min Scan# 500

Delta R.T. 0.00 min

Lab File: VN061023.D

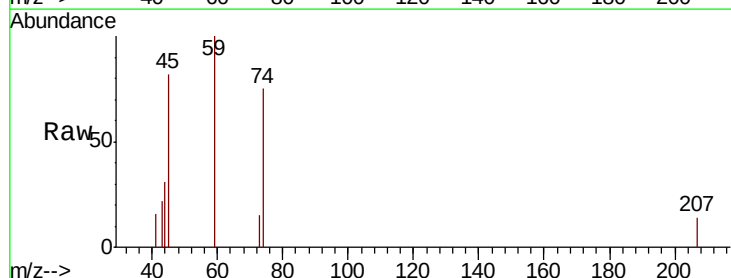
Acq: 16 Apr 2020 19:43

Tgt Ion: 74 Resp: 1720

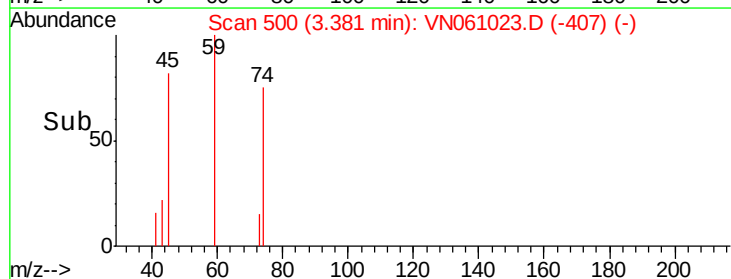
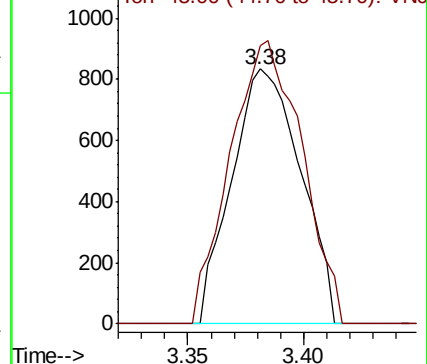
Ion Ratio Lower Upper

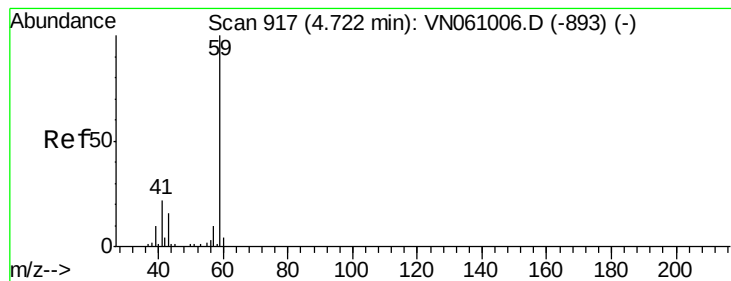
74 100

45 115.5 52.9 158.8



Abundance Ion 74.00 (73.70 to 74.70): VN061006.D (-485) (-)





#11

Tert butyl alcohol

Concen: 5.964 ug/l

RT: 4.73 min Scan# 918

Delta R.T. 0.00 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

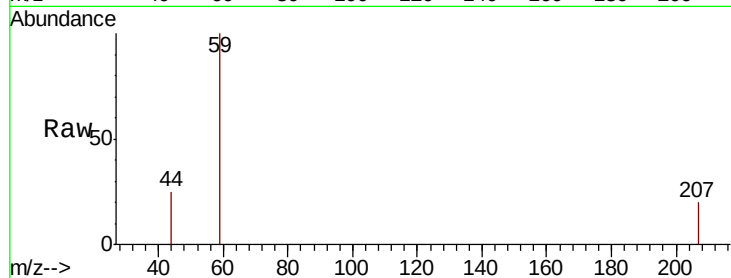
TP-12-DA

Tot Ion: 59 Resp: 2379

Ion Ratio Lower Upper

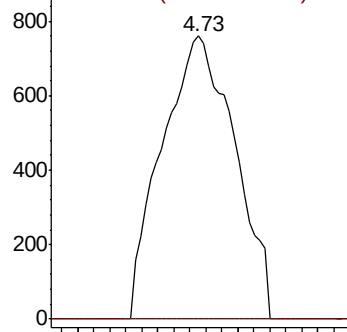
59 100

57 0.0 8.1 12.1#

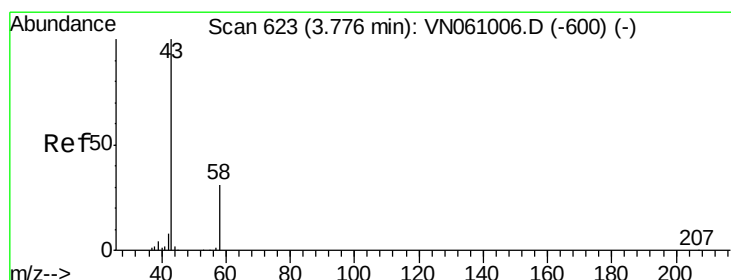
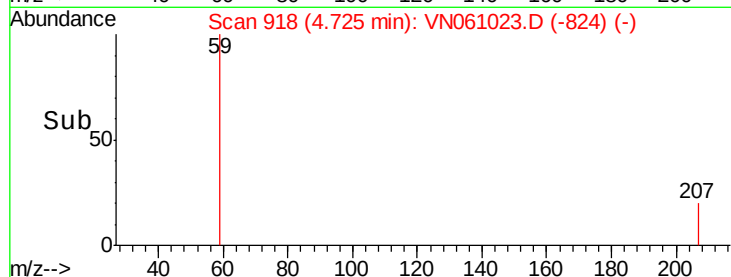


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



Time-->



#16

Acetone

Concen: 102.504 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061023.D

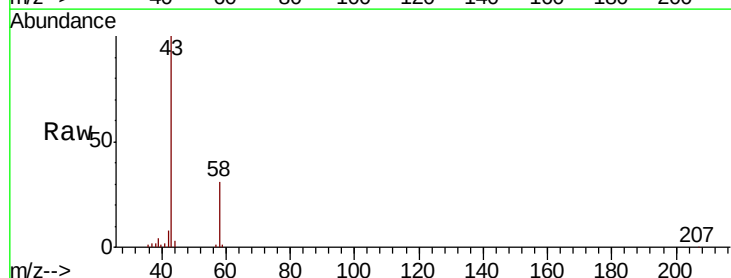
Acq: 16 Apr 2020 19:43

Tgt Ion: 43 Resp: 101441

Ion Ratio Lower Upper

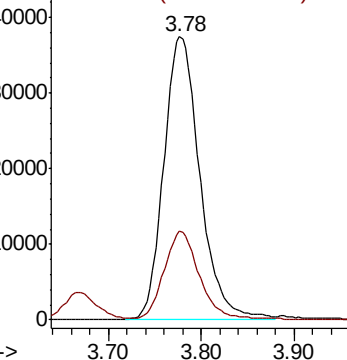
43 100

58 30.6 24.6 37.0

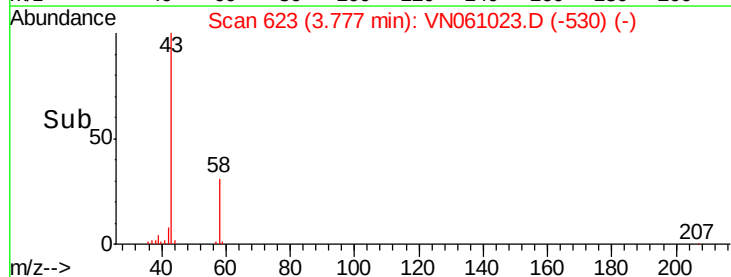


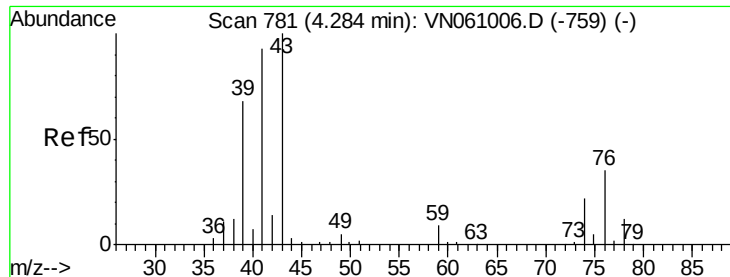
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

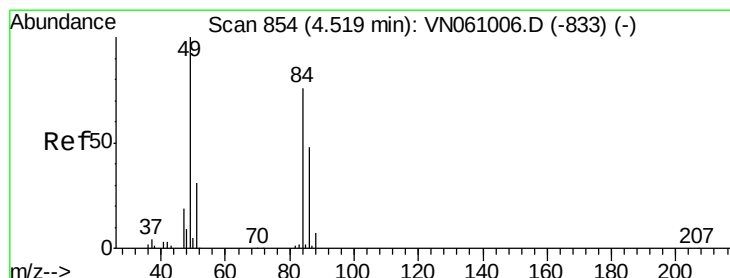
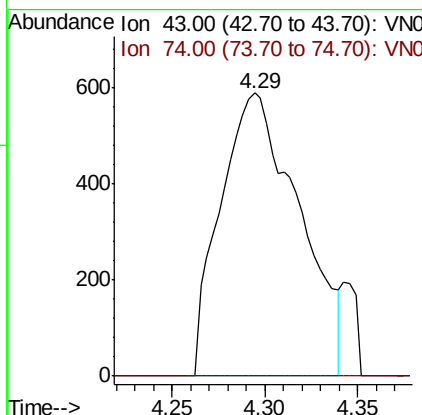
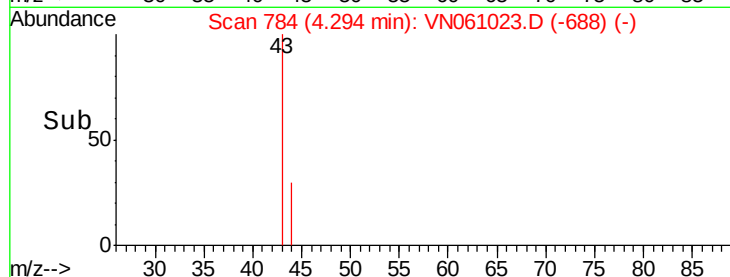
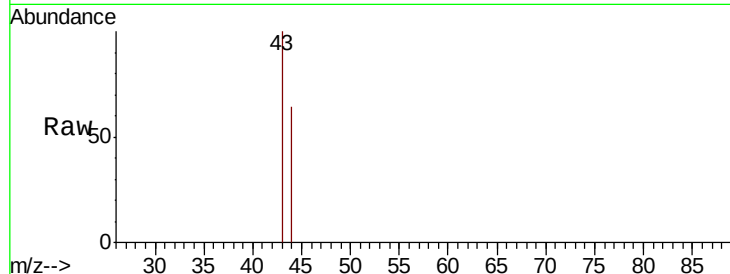




#18
Methvl Acetate
Concen: 0.559 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

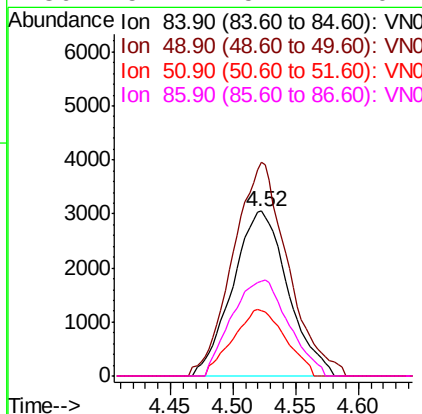
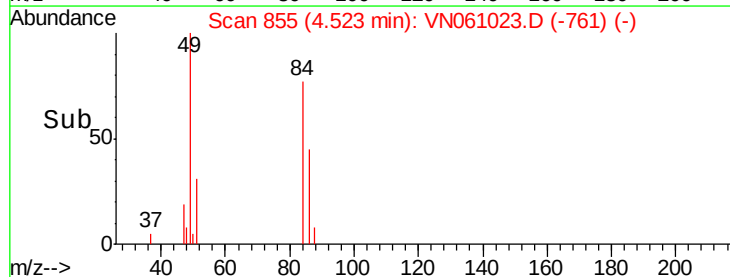
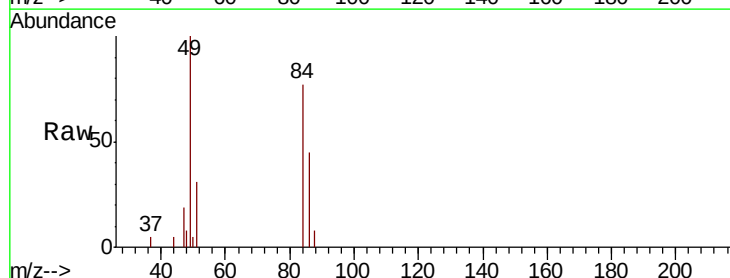
Instrument :
MSVOA_N
ClientSampleId :
TP-12-DA

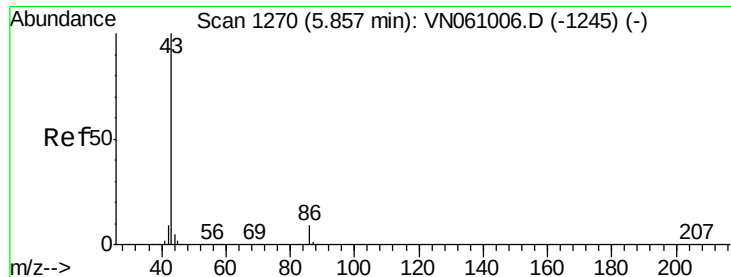
Tot Ion: 43 Resp: 1736
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.0#



#20
Methylene Chloride
Concen: 4.331 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion: 84 Resp: 9358
Ion Ratio Lower Upper
84 100
49 129.5 105.8 158.6
51 39.9 32.4 48.6
86 57.7 51.1 76.7





#23

Vinyl Acetate

Concen: 0.278 ug/l

RT: 5.69 min Scan# 1219

Delta R.T. -0.16 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

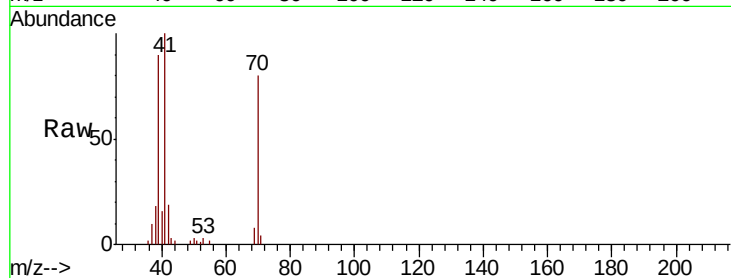
TP-12-DA

Tot Ion: 43 Resp: 1650

Ion Ratio Lower Upper

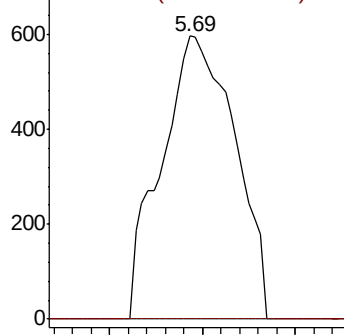
43 100

86 0.0 7.3 10.9#

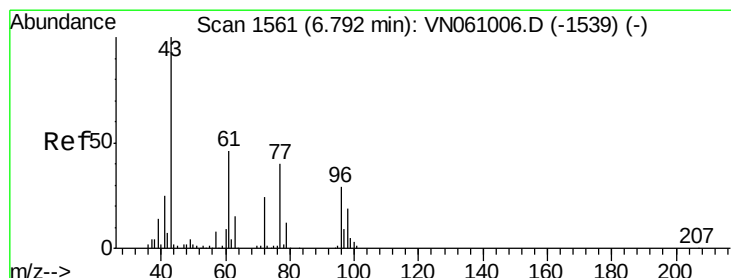
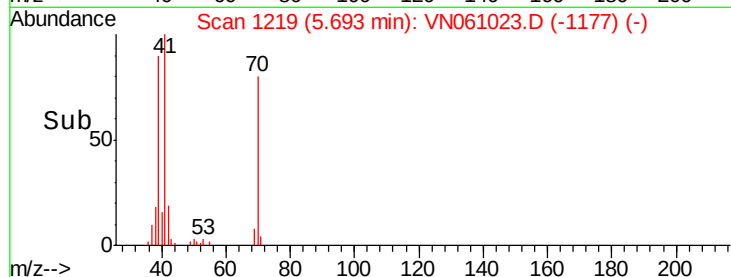


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time-->



#25

2-Butanone

Concen: 9.101 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VN061023.D

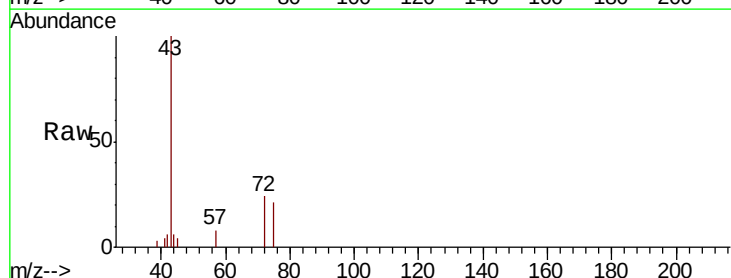
Acq: 16 Apr 2020 19:43

Tgt Ion: 43 Resp: 13802

Ion Ratio Lower Upper

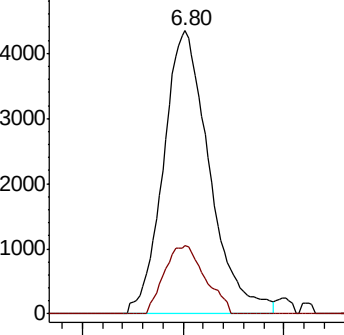
43 100

72 24.1 19.6 29.4

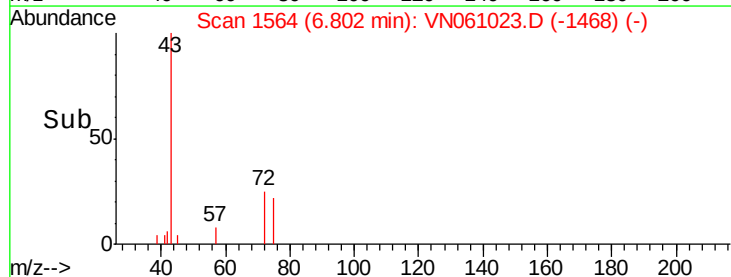


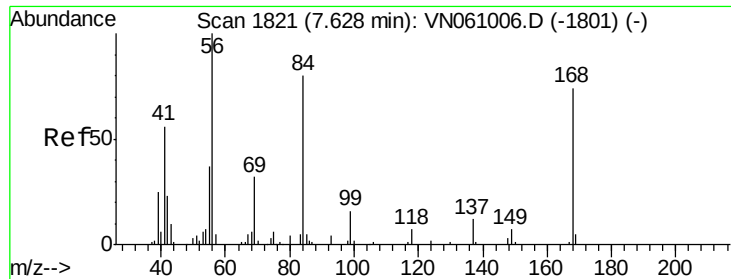
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



Time-->

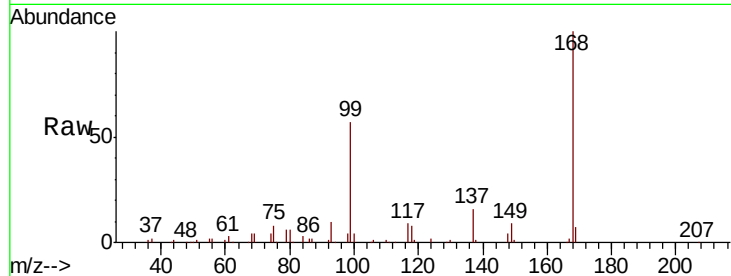




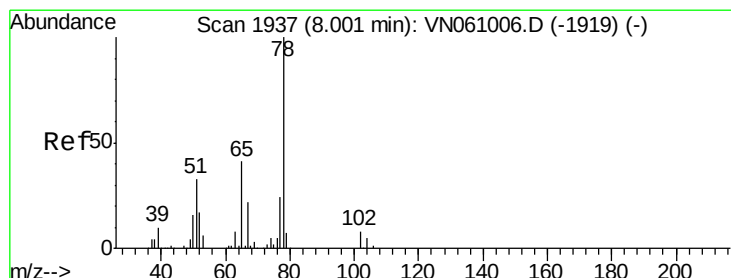
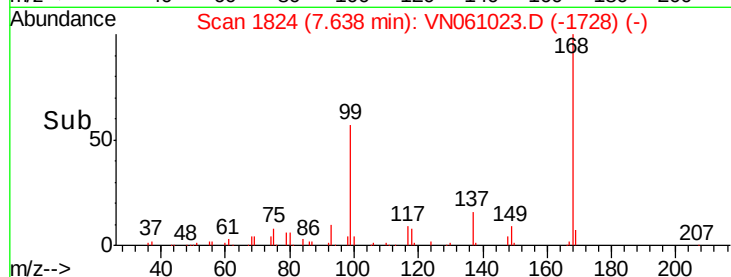
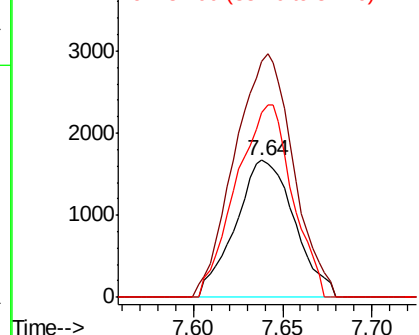
#31
Cyclohexane
Concen: 0.918 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Instrument :
MSVOA_N
ClientSampled :
TP-12-DA

Tot Ion: 56 Resp: 3843
Ion Ratio Lower Upper
56 100
69 172.6 25.6 38.4#
84 135.4 63.4 95.2#

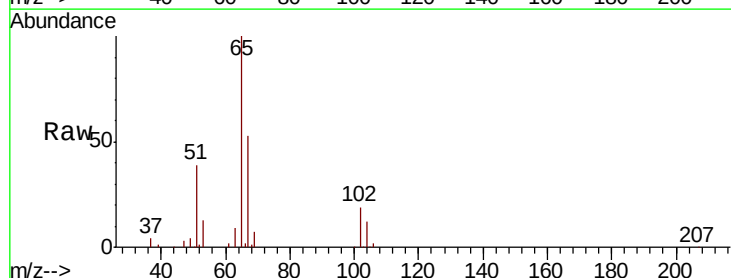


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

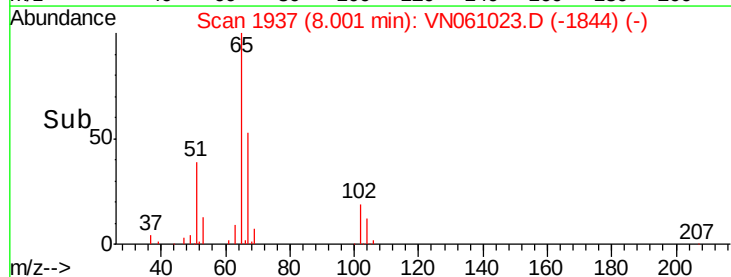
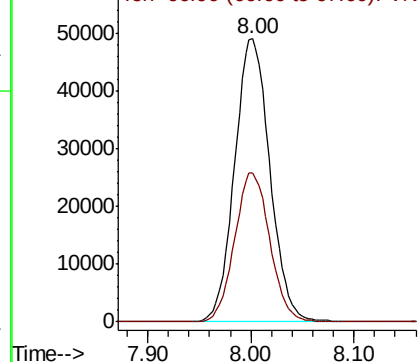


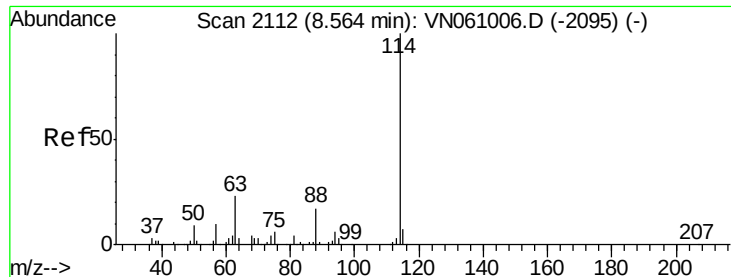
#33
1,2-Dichloroethane-d4
Concen: 51.872 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion: 65 Resp: 116627
Ion Ratio Lower Upper
65 100
67 52.5 0.0 107.0



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

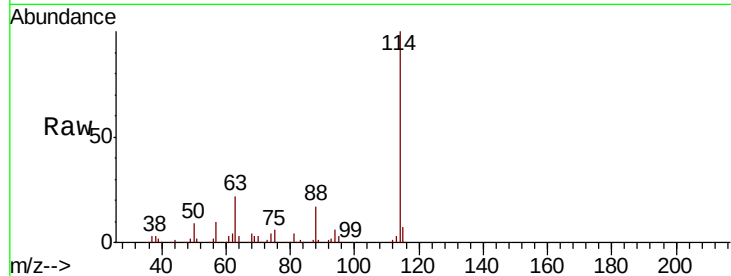




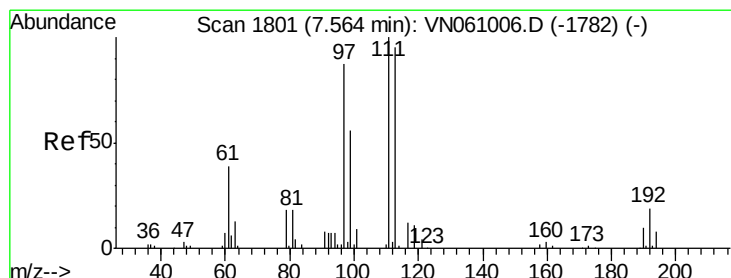
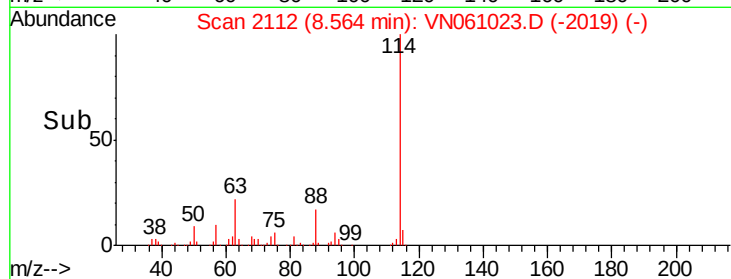
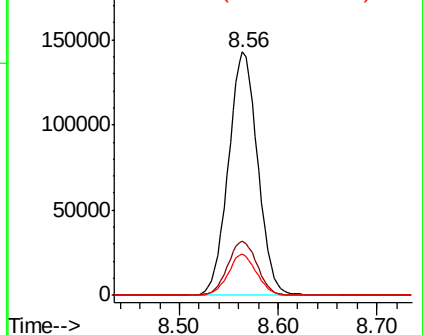
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Instrument :
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 ClientSampleId :
 TP-12-DA

Tot Ion:114	Resp:	296211
Ion	Ratio	Lower Upper
114	100	
63	22.0	0.0 46.2
88	16.9	0.0 33.4

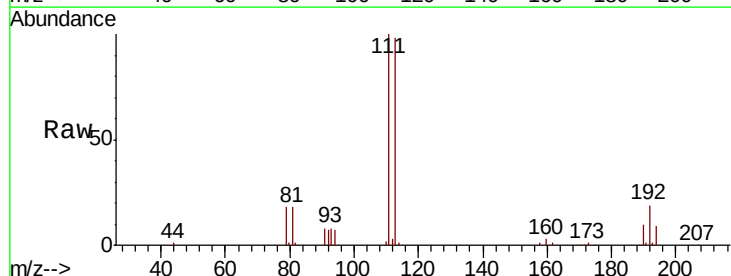


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

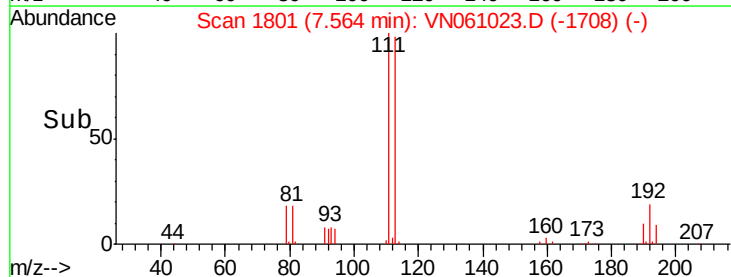
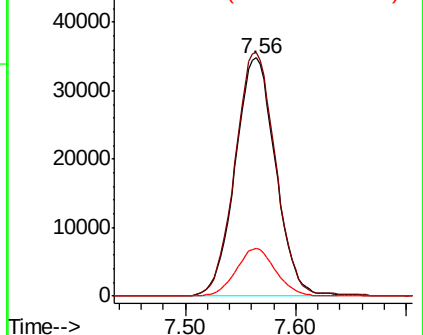


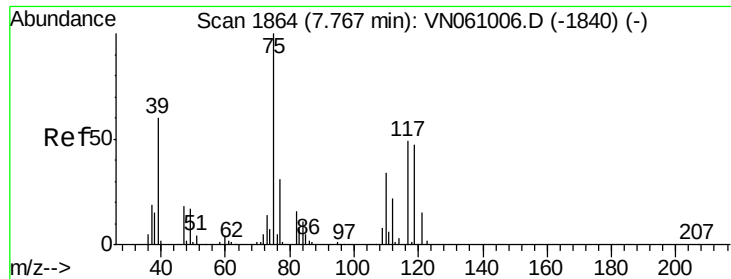
#35
 Dibromofluoromethane
 Concen: 50.996 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Tgt Ion:113	Resp:	88214
Ion	Ratio	Lower Upper
113	100	
111	102.2	83.4 125.2
192	19.5	15.5 23.3



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

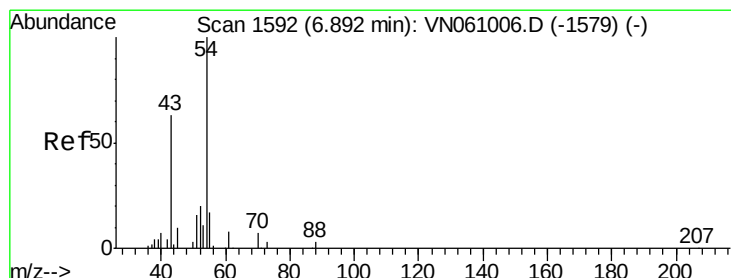
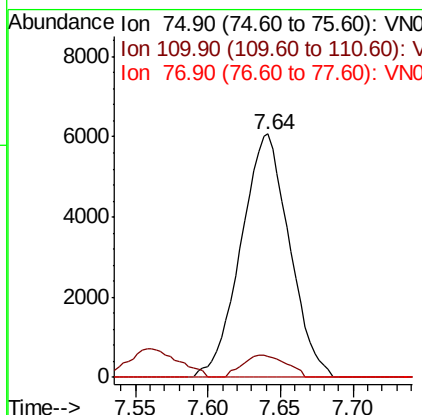
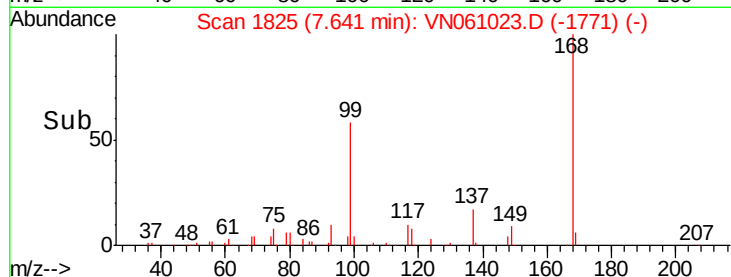
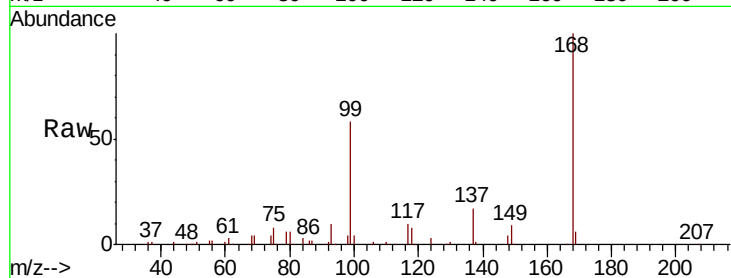




#36
 1,1-Dichloropropene
 Concen: 4.612 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

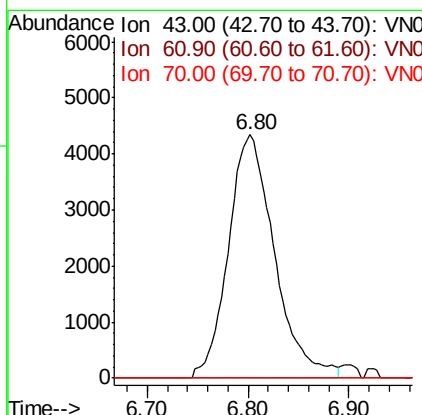
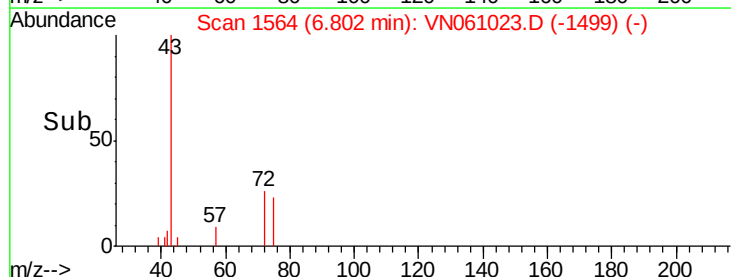
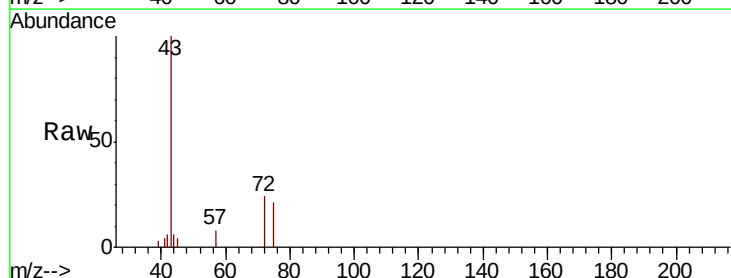
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-12-DA

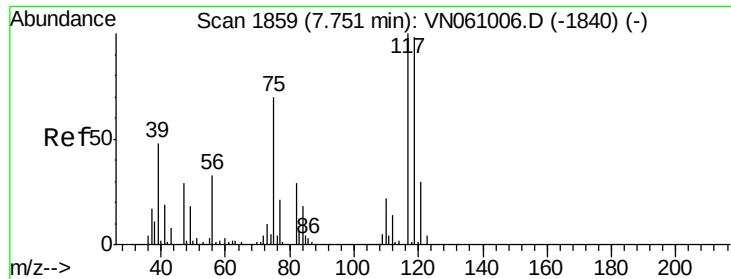
Tot Ion: 75 Resp: 14097
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.8 50.3#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 4.158 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.09 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Tgt Ion: 43 Resp: 13802
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.9 16.3#
 70 0.0 7.7 11.5#





#38

Carbon Tetrachloride

Concen: 6.632 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

ClientSampled :

TP-12-DA

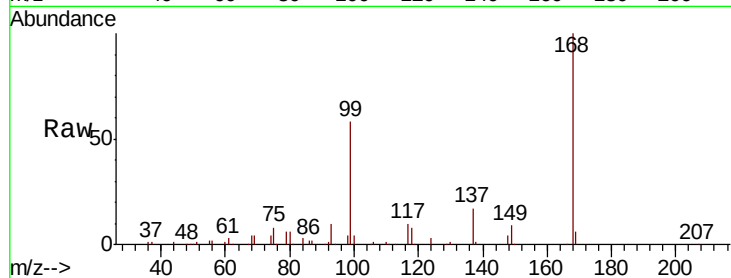
Tot Ion:117 Resp: 16873

Ion Ratio Lower Upper

117 100

119 4.8 78.1 117.1#

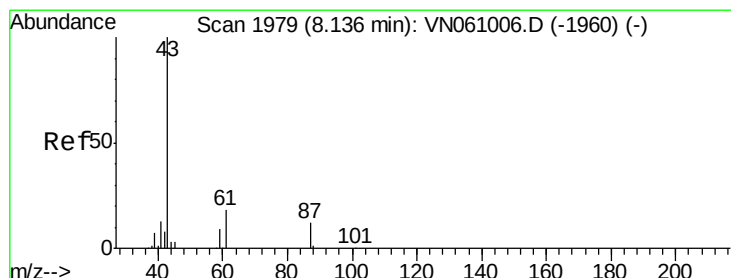
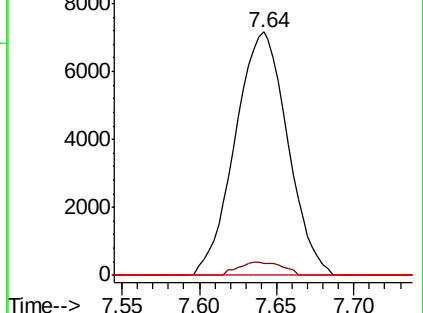
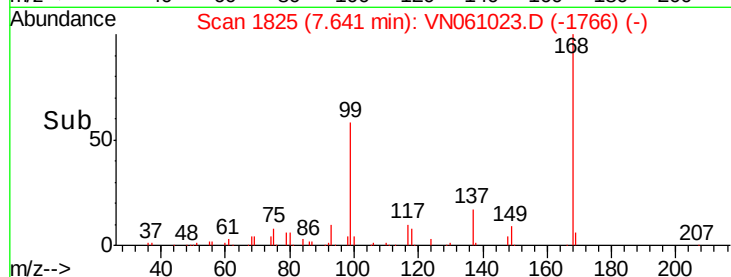
121 0.0 24.0 36.0#



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: 8.397 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

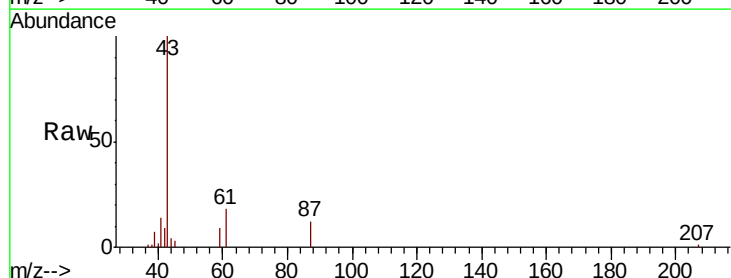
Tgt Ion: 43 Resp: 45328

Ion Ratio Lower Upper

43 100

61 19.3 20.3 30.5#

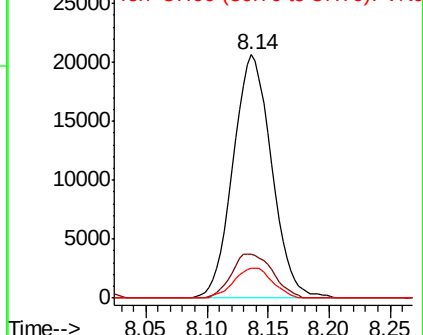
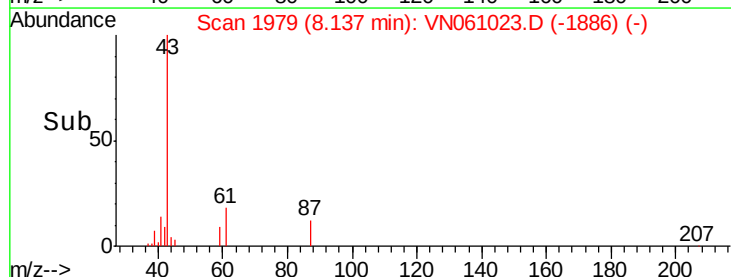
87 12.2 9.4 14.2

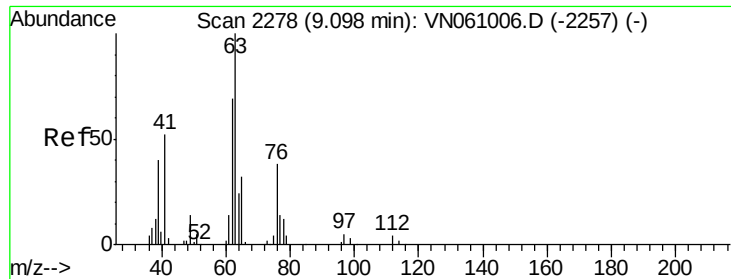


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

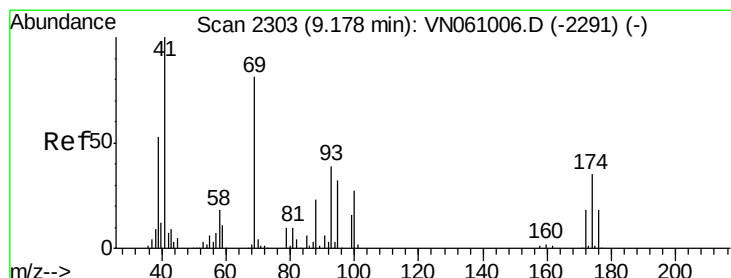
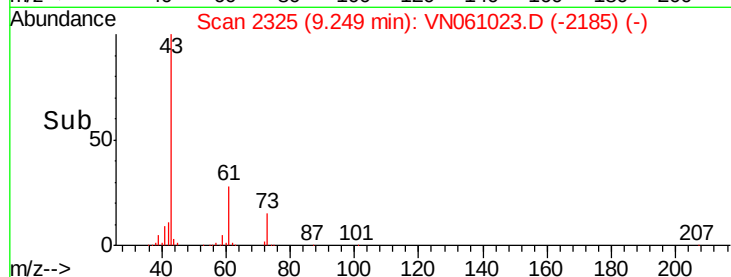
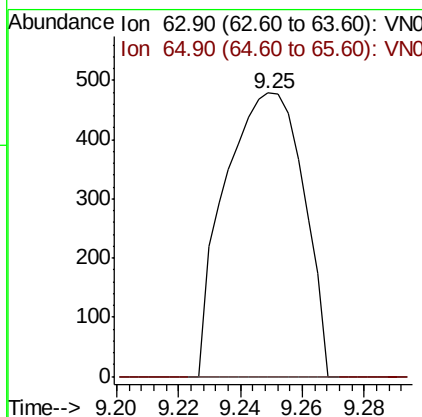
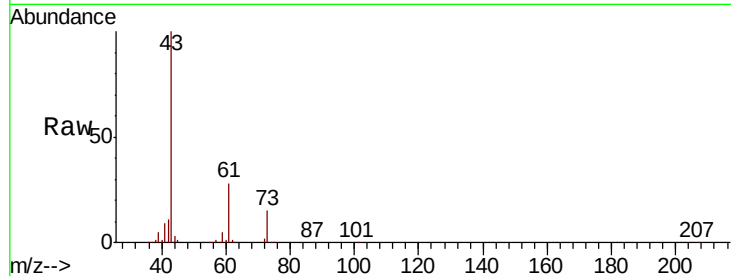




#45
 1,2-Dichloropropane
 Concen: 0.343 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

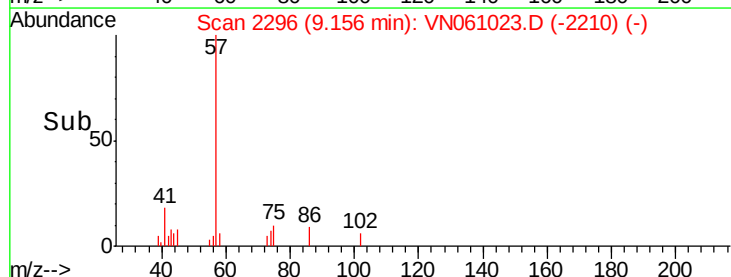
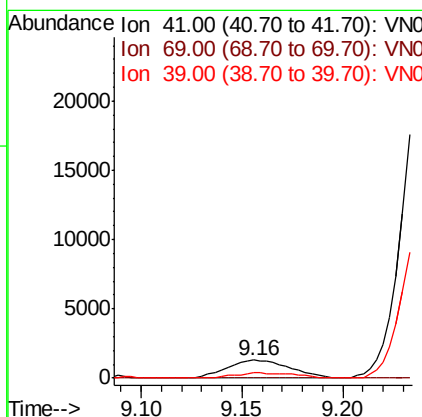
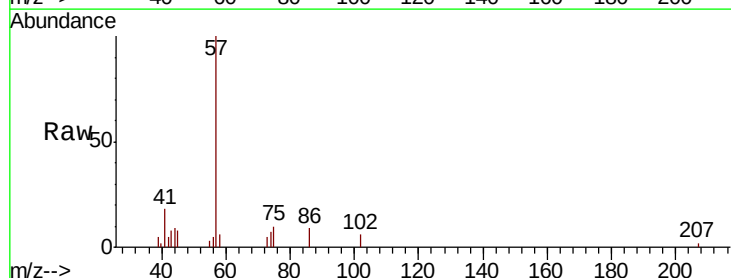
Instrument :
 MSVOA_N
 ClientSampled :
 TP-12-DA

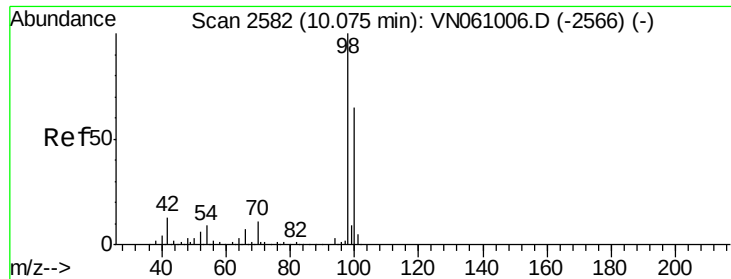
Tot Ion: 63 Resp: 841
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#48
 Methyl methacrylate
 Concen: 1.180 ug/l
 RT: 9.16 min Scan# 2296
 Delta R.T. -0.02 min
 Lab File: VN061023.D
 Acq: 16 Apr 2020 19:43

Tgt Ion: 41 Resp: 2816
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.3 97.9#
 39 0.0 45.2 67.8#

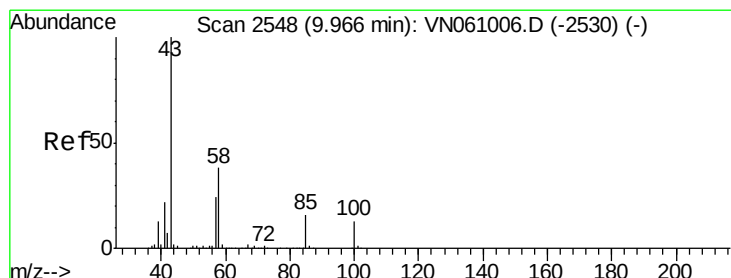
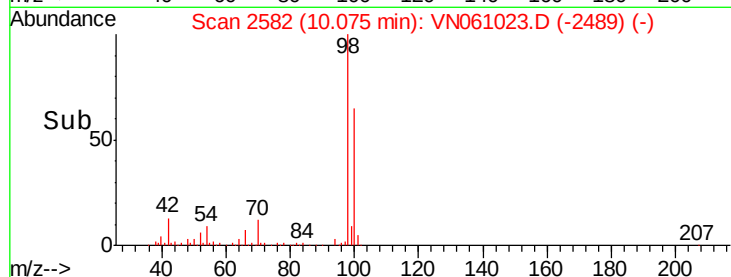
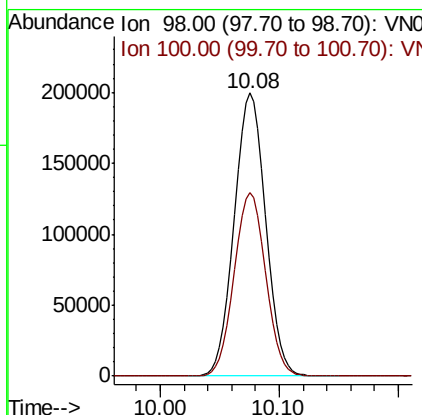
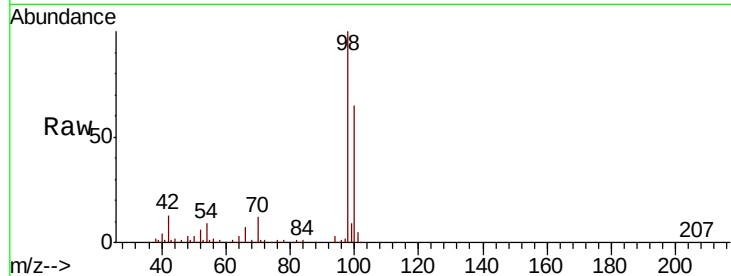




#50
Toluene-d8
Concen: 56.022 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

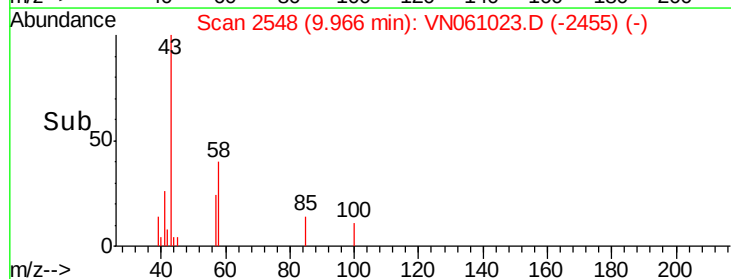
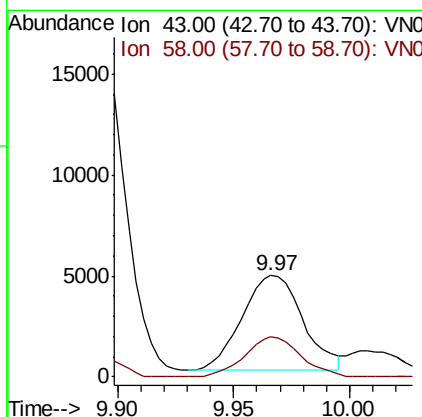
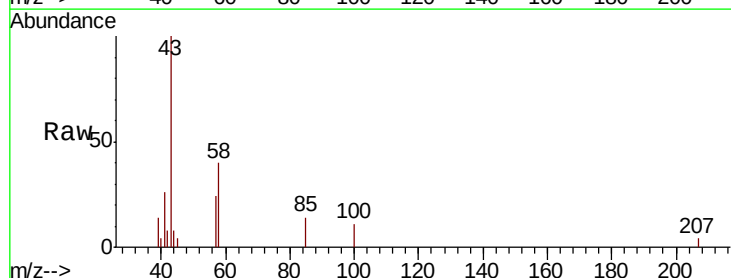
Instrument :
MSVOA_N
ClientSampled :
TP-12-DA

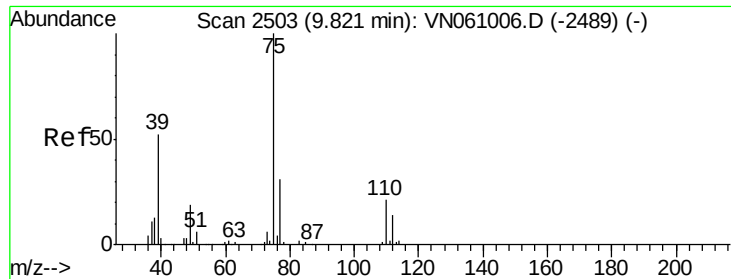
Tot Ion: 98 Resp: 366198
Ion Ratio Lower Upper
98 100
100 65.0 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 2.759 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion: 43 Resp: 8585
Ion Ratio Lower Upper
43 100
58 38.6 30.3 45.5





#54

cis-1,3-Dichloropropene

Concen: 4.856 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.07 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

TP-12-DA

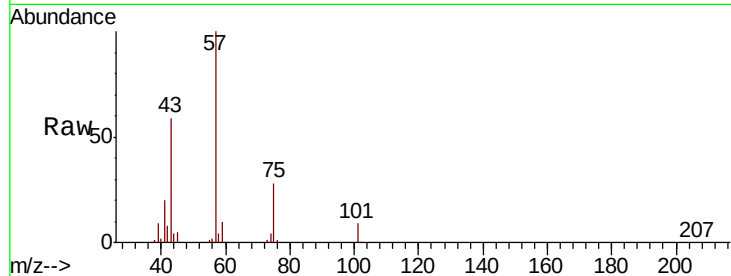
Tot Ion: 75 Resp: 18362

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

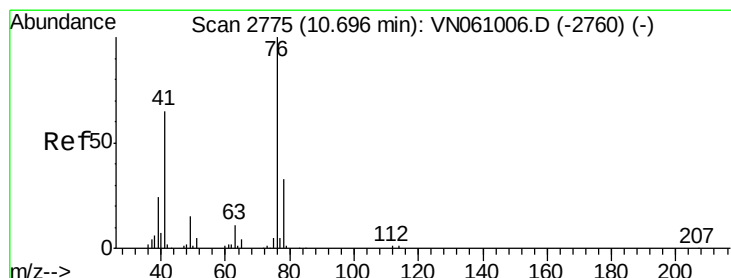
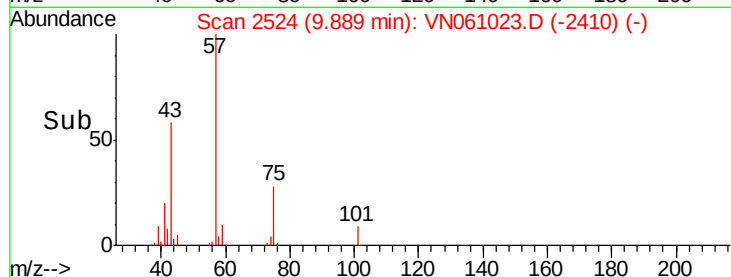
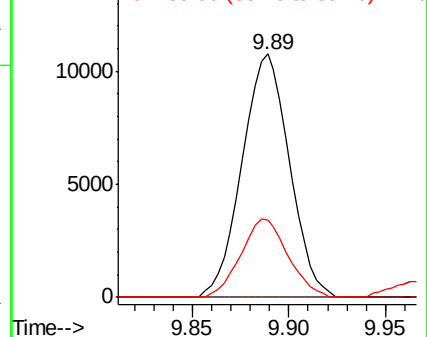
39 32.0 41.4 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VN061006.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN061006.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN061006.D (-2489) (-)



#57

1,3-Dichloropropane

Concen: 0.795 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN061023.D

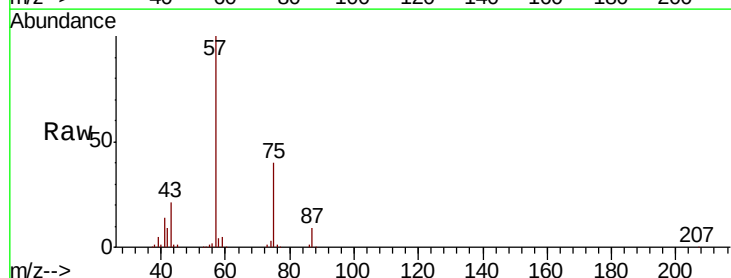
Acq: 16 Apr 2020 19:43

Tgt Ion: 76 Resp: 2921

Ion Ratio Lower Upper

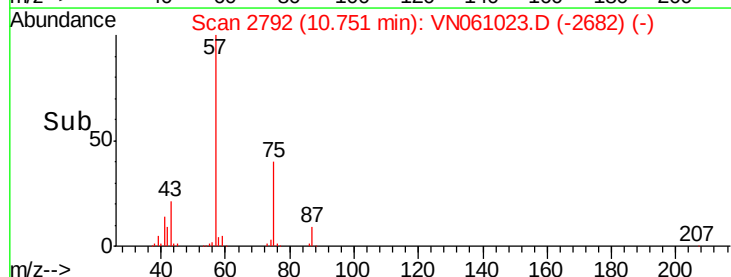
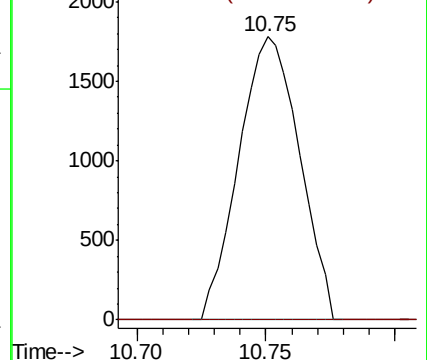
76 100

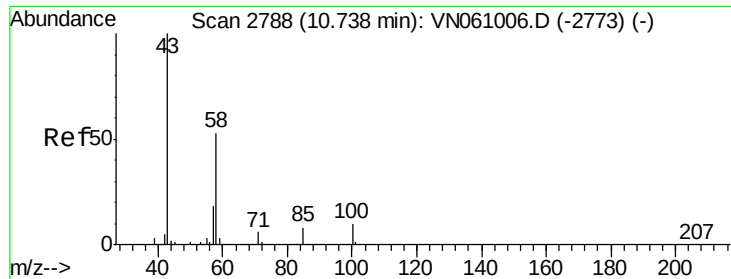
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN061006.D (-2760) (-)

Ion 77.90 (77.60 to 78.60): VN061006.D (-2760) (-)

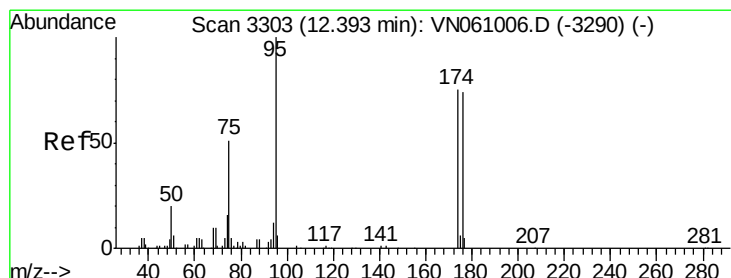
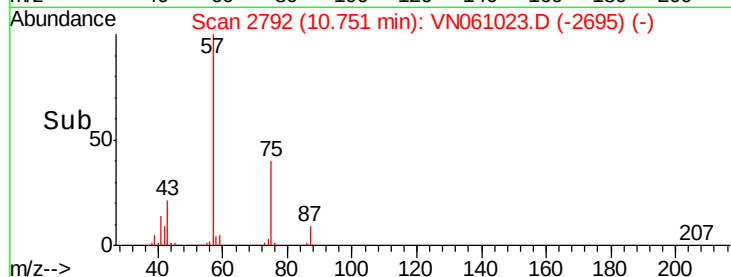
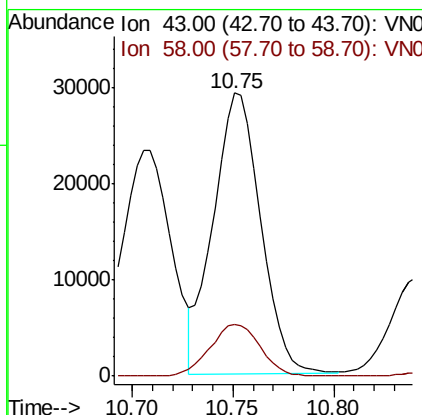
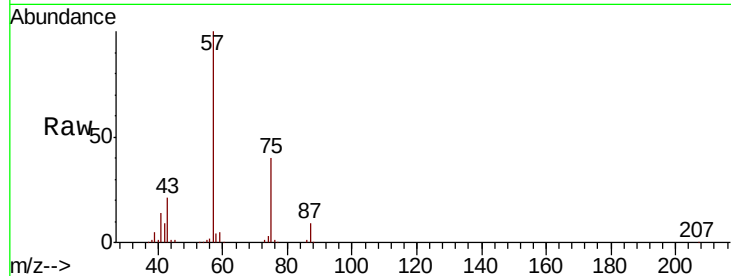




#59
2-Hexanone
Concen: 21.404 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

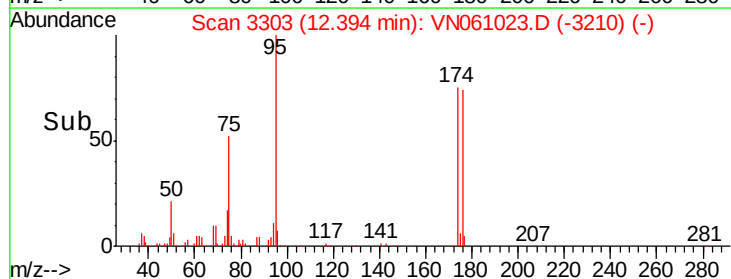
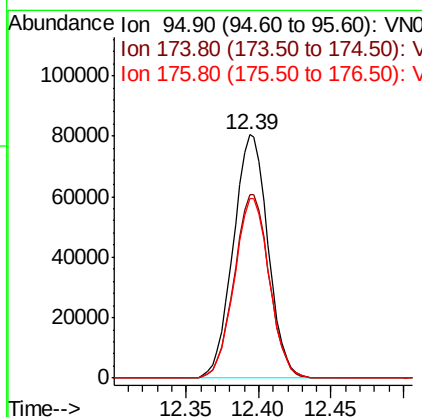
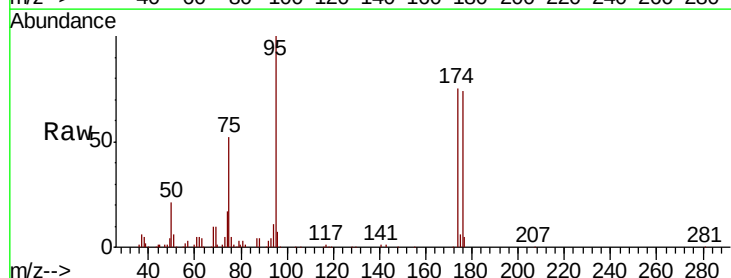
Instrument :
MSVOA_N
ClientSampleId :
TP-12-DA

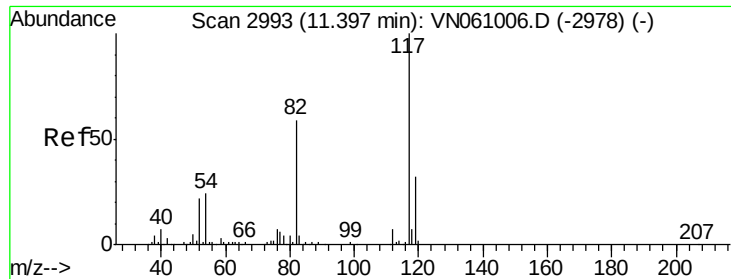
Tot Ion: 43 Resp: 48033
Ion Ratio Lower Upper
43 100
58 19.5 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 52.317 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion: 95 Resp: 134032
Ion Ratio Lower Upper
95 100
174 75.9 0.0 151.2
176 74.4 0.0 148.2

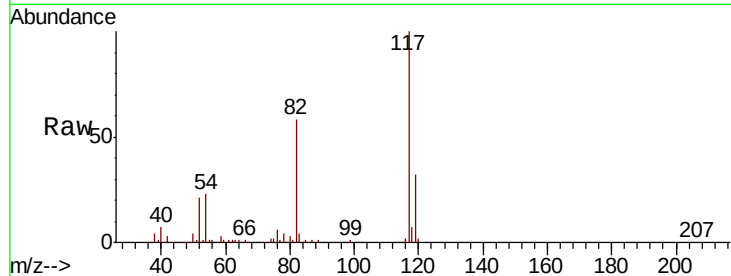




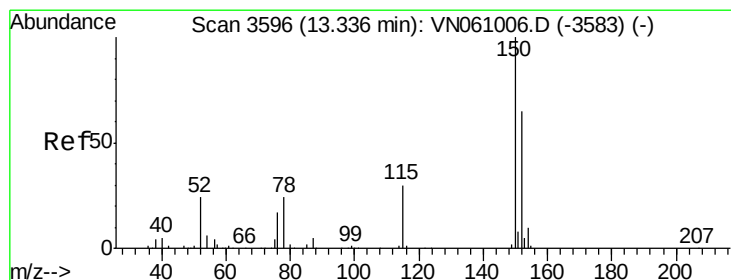
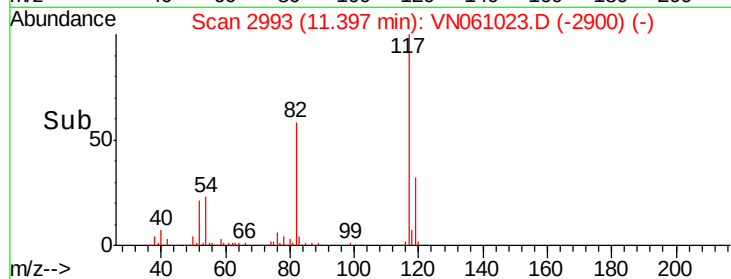
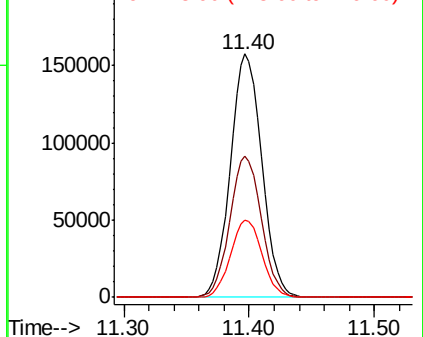
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Instrument :
MSVOA_N
ClientSampleId :
TP-12-DA

Tot Ion:117 Resp: 274660
Ion Ratio Lower Upper
117 100
82 58.2 47.1 70.7
119 31.9 25.7 38.5

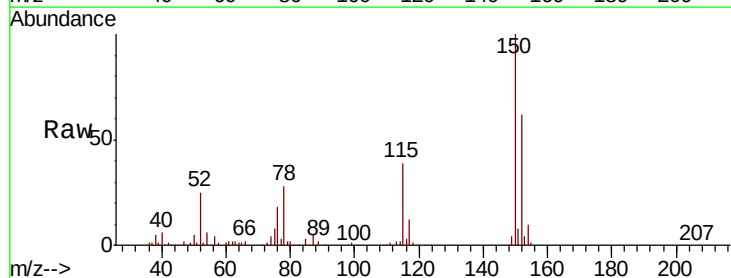


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

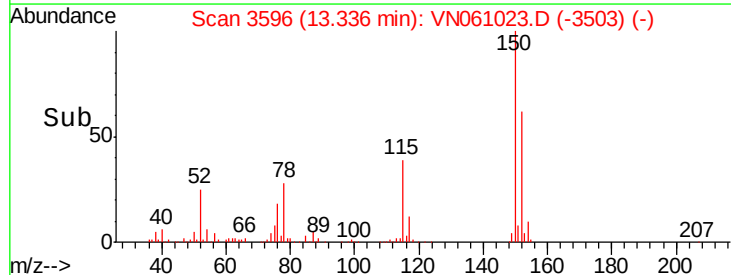
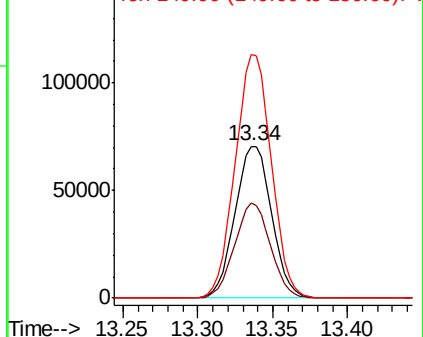


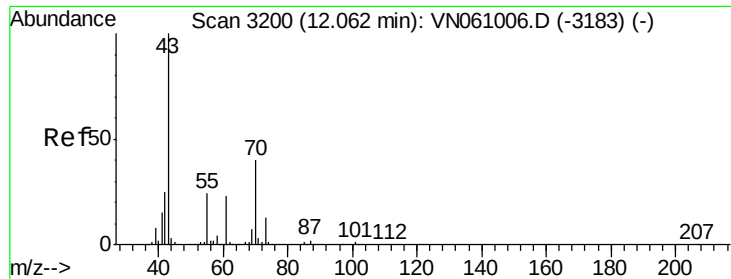
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3596
Delta R.T. 0.00 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion:152 Resp: 120383
Ion Ratio Lower Upper
152 100
115 61.2 30.8 92.4
150 158.5 0.0 349.0



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

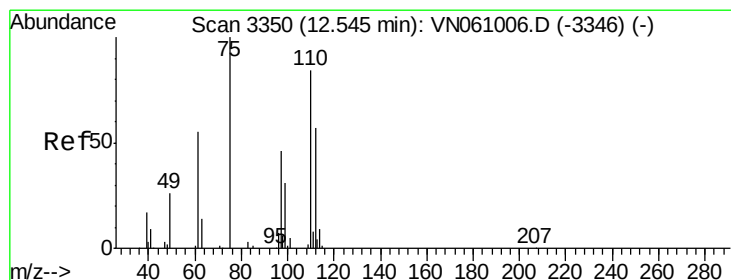
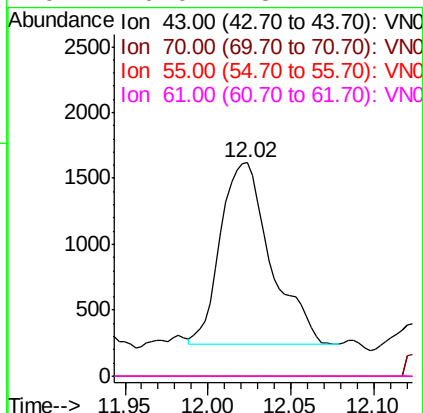
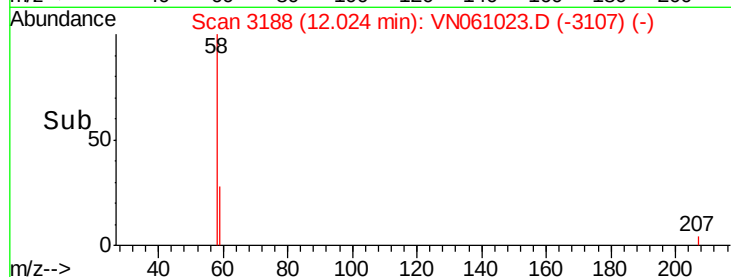
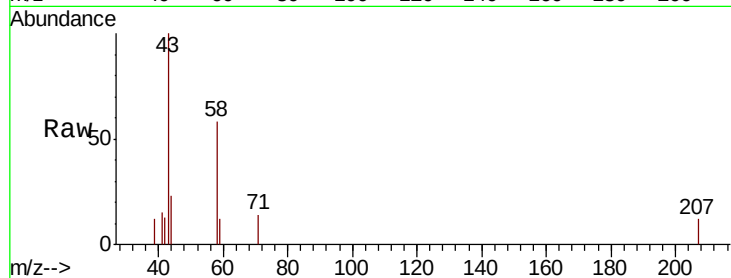




#74
N-amvl acetate
Concen: 0.650 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

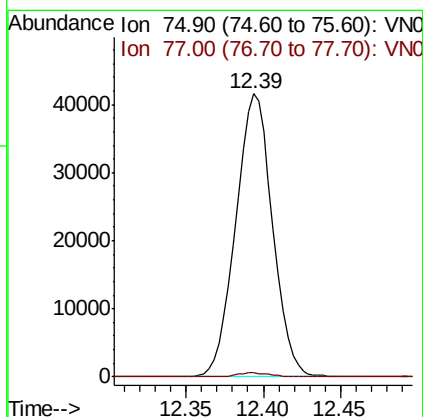
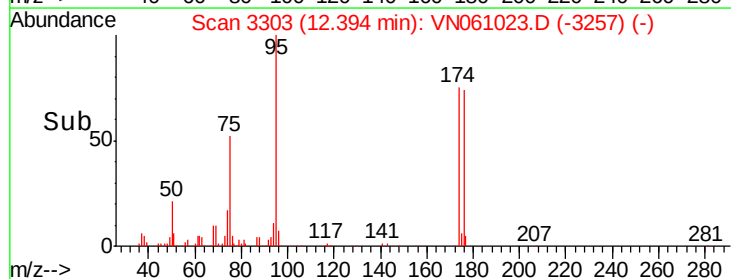
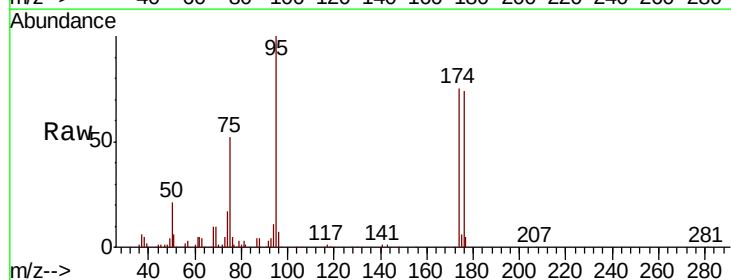
Instrument :
MSVOA_N
ClientSampled :
TP-12-DA

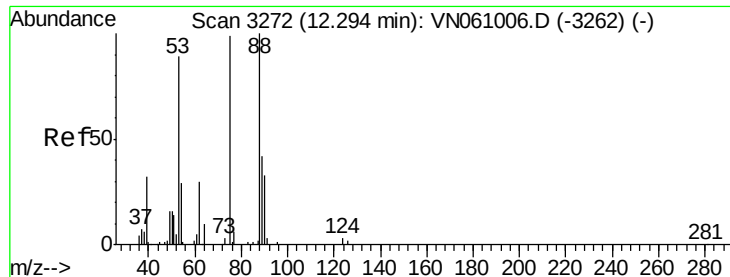
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
70	0.0	31.0	46.6#	
55	0.0	18.6	27.8#	
61	0.0	18.2	27.4#	



#76
1,2,3-Trichloropropane
Concen: 25.897 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. -0.15 min
Lab File: VN061023.D
Acq: 16 Apr 2020 19:43

Tgt Ion	Ion	Ratio	Lower	Upper
75	100			
77	1.2	0.0	0.0#	





#81

trans-1,4-Dichloro-2-butene

Concen: 63.877 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061023.D

Acq: 16 Apr 2020 19:43

Instrument :

MSVOA_N

ClientSampleId :

TP-12-DA

Tot Ion: 75 Resp: 68573

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#

