

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061030.D
 Acq On : 16 Apr 2020 22:21
 Operator : JC/MD
 Sample : L2304-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

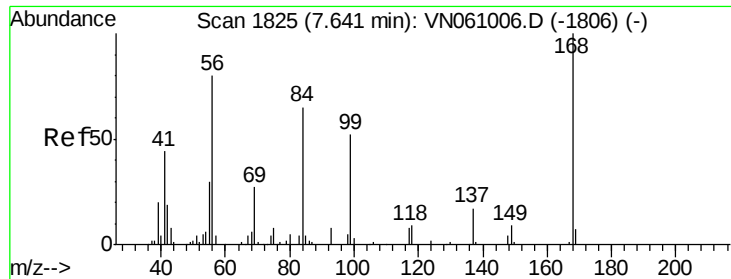
Quant Time: Apr 17 04:02:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	159640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	273224	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	260609	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	118644	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	109355	53.54	ug/l	0.00
Spiked Amount			Recovery	=	107.08%	
35) Dibromofluoromethane	7.56	113	81801	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
50) Toluene-d8	10.08	98	340497	56.47	ug/l	0.00
Spiked Amount			Recovery	=	112.94%	
62) 4-Bromofluorobenzene	12.39	95	129326	54.73	ug/l	0.00
Spiked Amount			Recovery	=	109.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	298	0.822	ug/l #	73
16) Acetone	3.78	43	26813	29.825	ug/l	99
18) Methyl Acetate	4.30	43	1911	0.678	ug/l #	54
20) Methylene Chloride	4.52	84	2406	1.226	ug/l	93
25) 2-Butanone	6.80	43	4102	2.978	ug/l	93
31) Cyclohexane	7.64	56	3423	0.900	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12689	4.501	ug/l #	49
37) Ethyl Acetate	6.80	43	4102	1.340	ug/l #	69
38) Carbon Tetrachloride	7.64	117	15765	6.718	ug/l #	15
43) Isopropyl Acetate	8.14	43	56723	11.392	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1047	0.463	ug/l #	43
48) Methyl methacrylate	9.16	41	4862	2.210	ug/l #	32
51) 4-Methyl-2-Pentanone	9.97	43	7241	2.523	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	22800	6.538	ug/l #	59
56) Ethyl methacrylate	10.53	69	616	0.206	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	3485	1.029	ug/l #	43
59) 2-Hexanone	10.75	43	56032	27.069	ug/l #	53
71) Bromoform	12.39	173	425	0.296	ug/l #	1
74) N-amyl acetate	12.02	43	6092	1.378	ug/l #	49
76) 1,2,3-Trichloropropane	12.39	75	66037	25.305	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	66037	62.416	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

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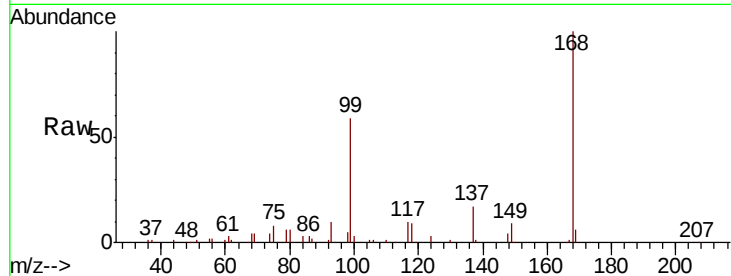
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 159640

Ion Ratio Lower Upper

168 100

99 59.0 47.4 71.2



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

Ion 98.90 (98.60 to 99.60): VN061006.D (-1806) (-)

7.64

60000

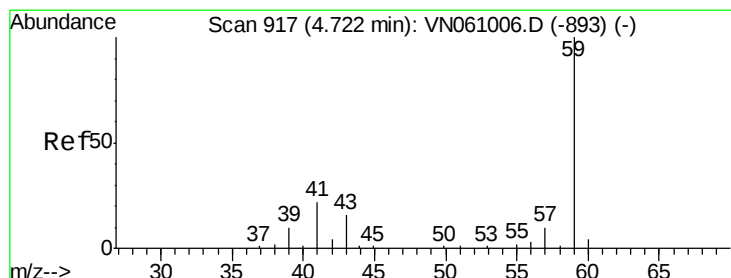
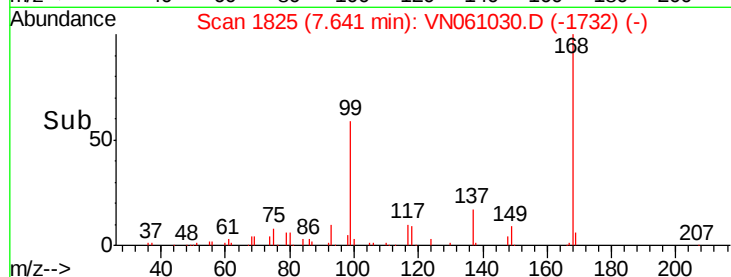
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.822 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.01 min

Lab File: VN061030.D

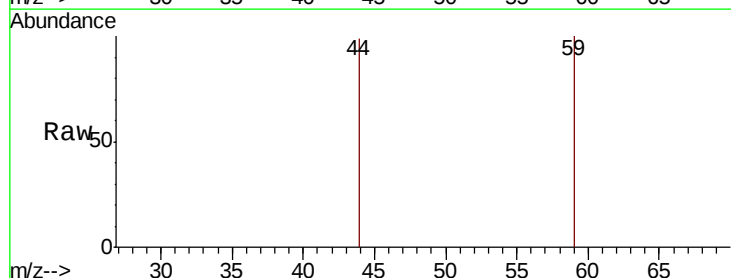
Acq: 16 Apr 2020 22:21

Tgt Ion: 59 Resp: 298

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN061006.D (-893) (-)

Ion 57.00 (56.70 to 57.70): VN061006.D (-893) (-)

4.73

250

200

150

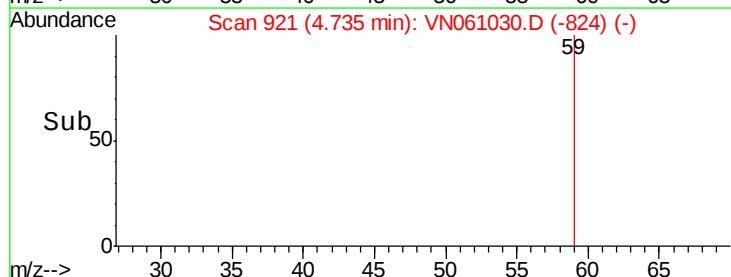
100

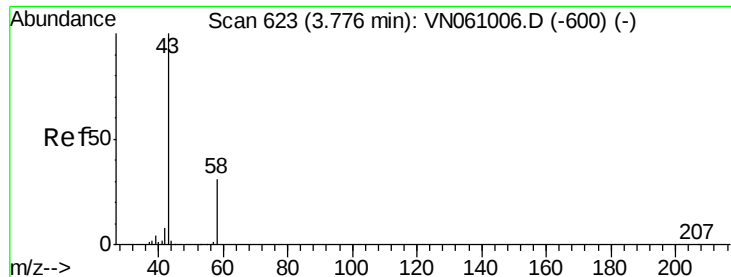
50

0

4.72 4.74 4.76

Time-->





#16

Acetone

Concen: 29.825 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

Instrument :

MSVOA_N

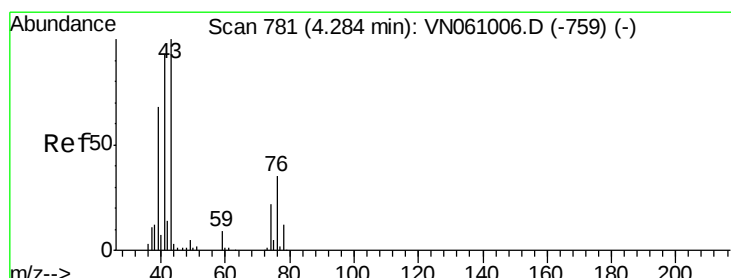
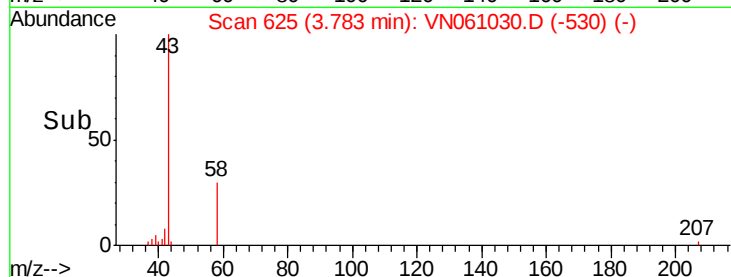
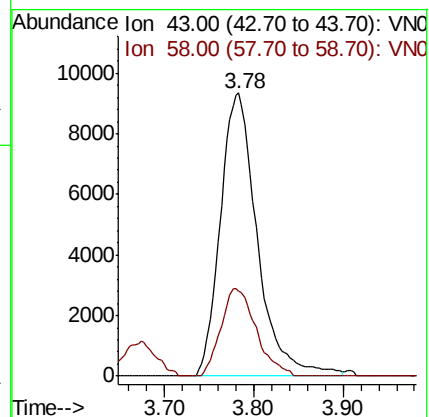
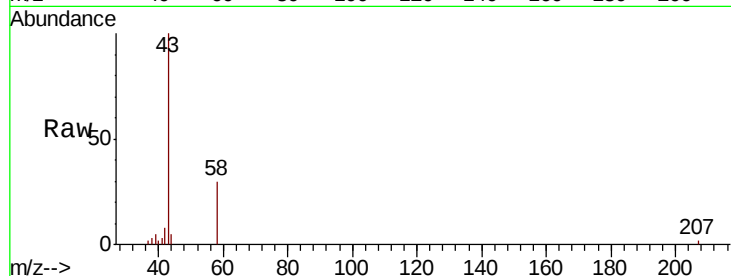
ClientSampled :

Tot Ion: 43 Resp: 26813

Ion Ratio Lower Upper

43 100

58 30.1 24.6 37.0



#18

Methyl Acetate

Concen: 0.678 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.02 min

Lab File: VN061030.D

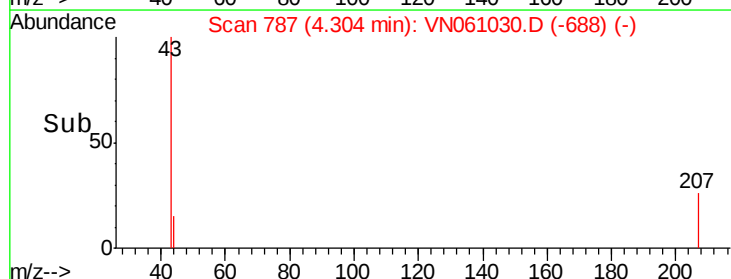
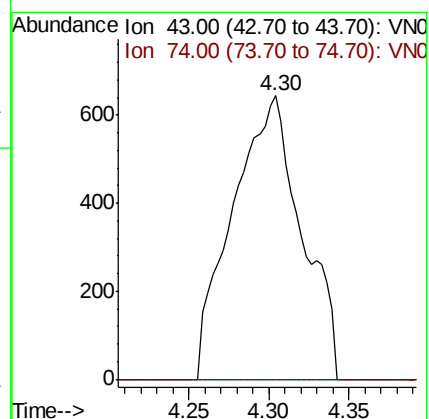
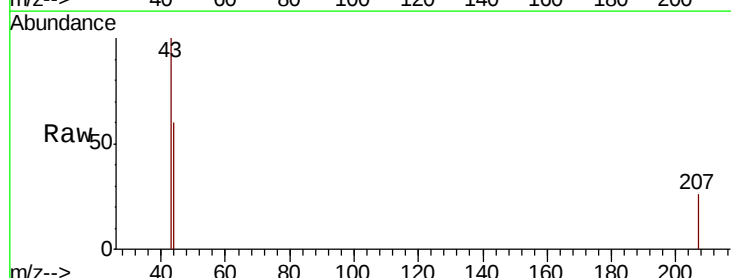
Acq: 16 Apr 2020 22:21

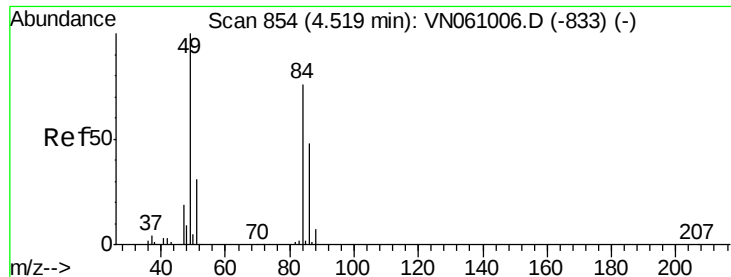
Tgt Ion: 43 Resp: 1911

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.0#

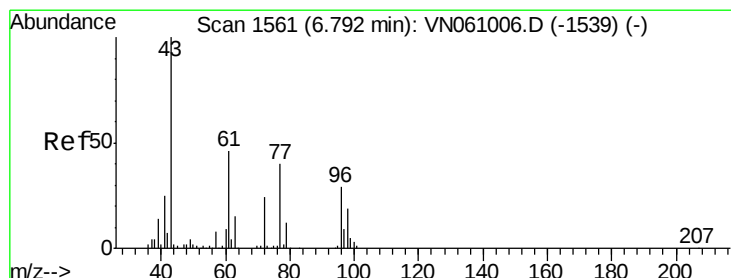
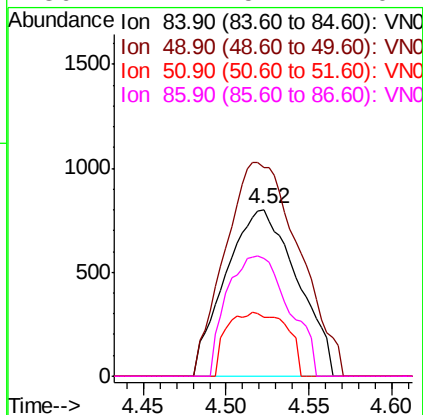
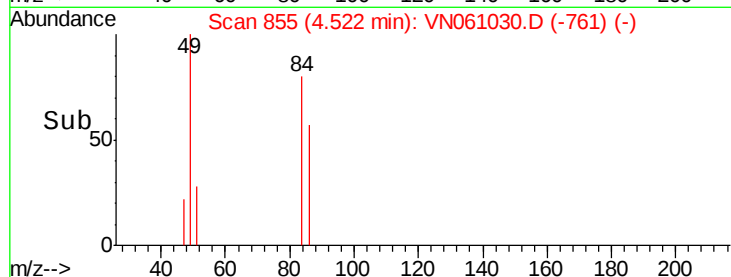
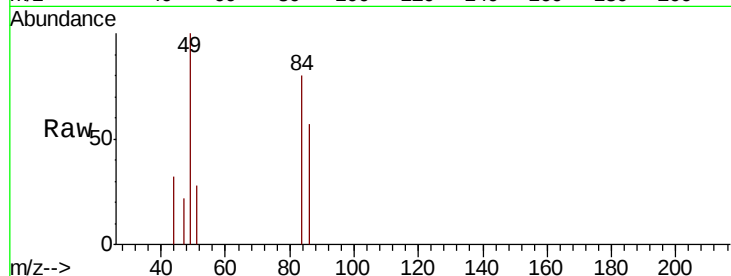




#20
Methvlene Chloride
Concen: 1.226 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN061030.D
Acq: 16 Apr 2020 22:21

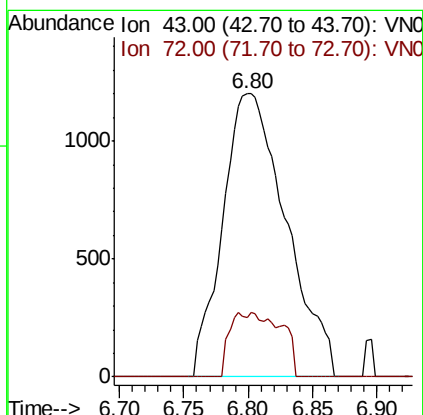
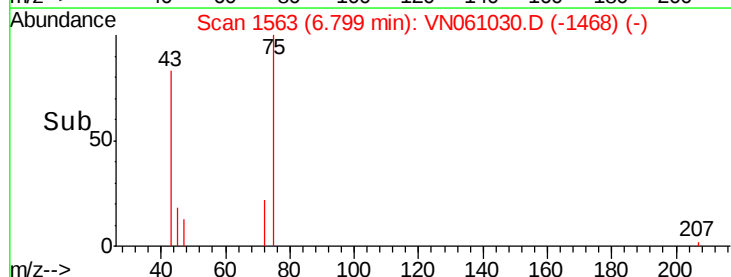
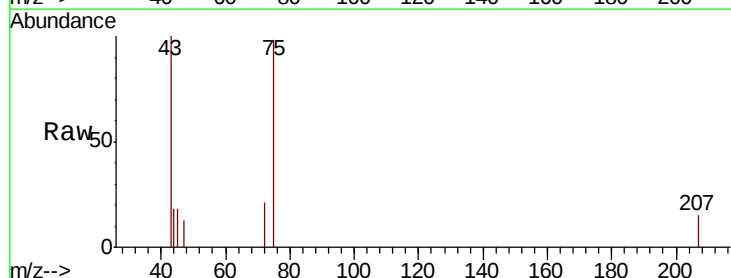
Instrument :
MSVOA_N
ClientSampled :

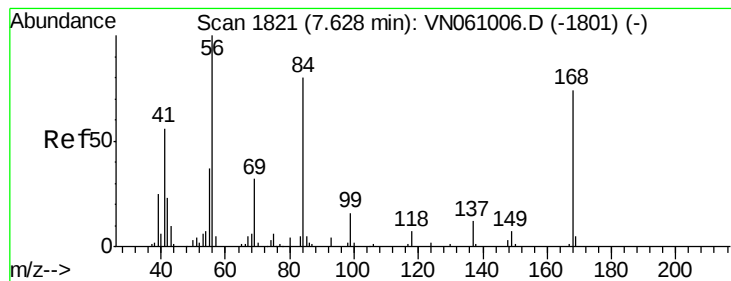
Tot Ion:	84	Resp:	2406
Ion	Ratio	Lower	Upper
84	100		
49	125.1	105.8	158.6
51	35.6	32.4	48.6
86	71.1	51.1	76.7



#25
2-Butanone
Concen: 2.978 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.01 min
Lab File: VN061030.D
Acq: 16 Apr 2020 22:21

Tgt Ion:	43	Resp:	4102
Ion	Ratio	Lower	Upper
43	100		
72	21.1	19.6	29.4





#31

Cyclohexane

Concen: 0.900 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

Instrument :

MSVOA_N

ClientSampled :

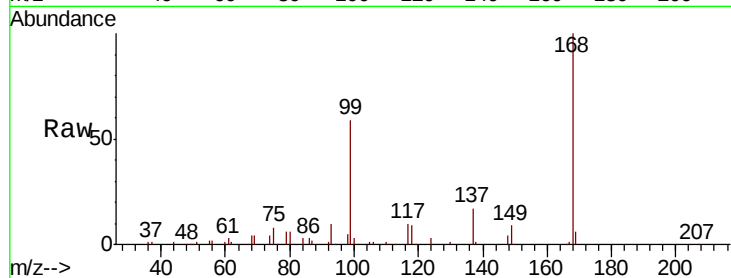
Tot Ion: 56 Resp: 3423

Ion Ratio Lower Upper

56 100

69 172.9 25.6 38.4#

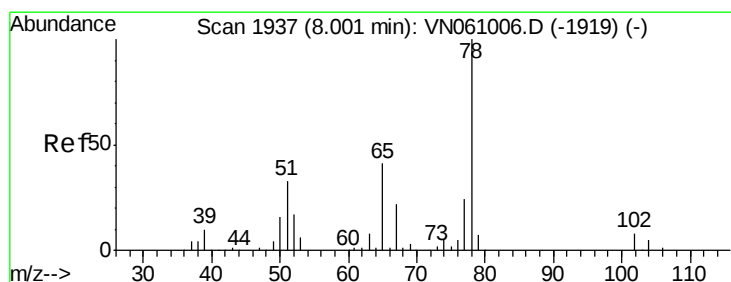
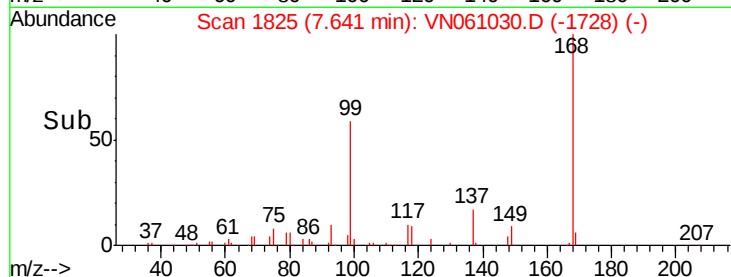
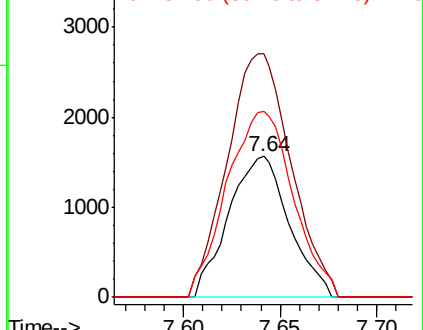
84 131.8 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VN061006.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN061006.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN061006.D (-1801) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.540 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061030.D

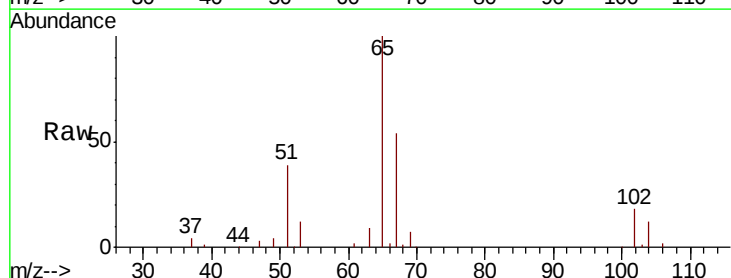
Acq: 16 Apr 2020 22:21

Tgt Ion: 65 Resp: 109355

Ion Ratio Lower Upper

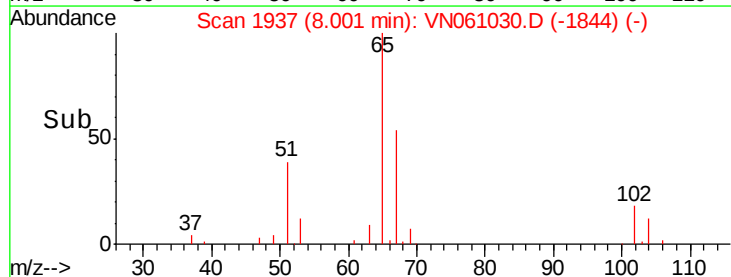
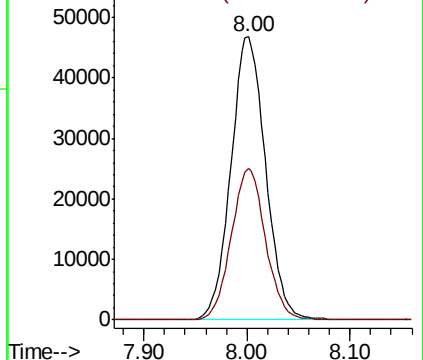
65 100

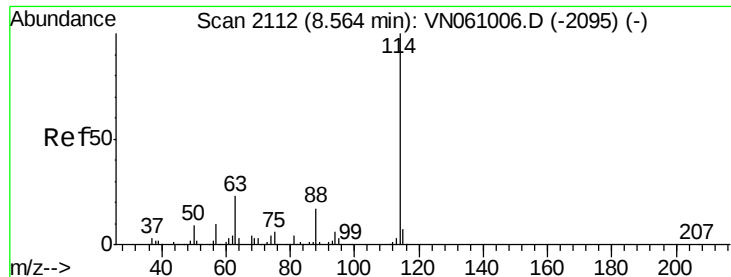
67 52.8 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN061006.D (-1919) (-)

Ion 66.90 (66.60 to 67.60): VN061006.D (-1919) (-)

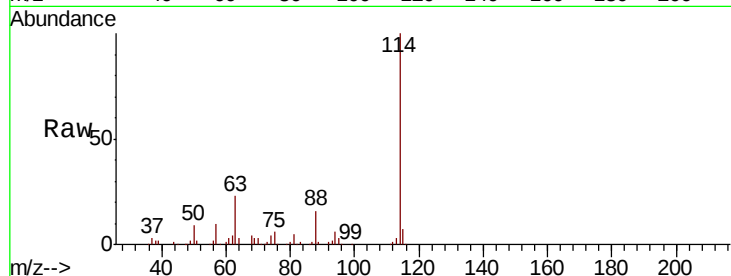




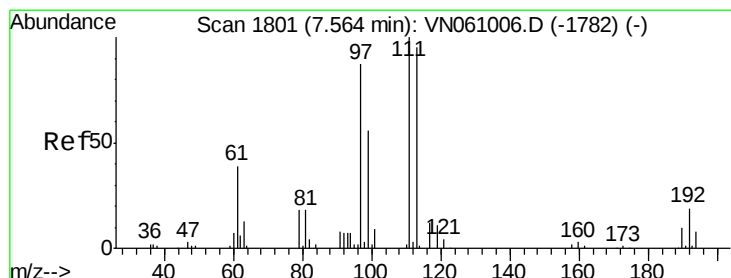
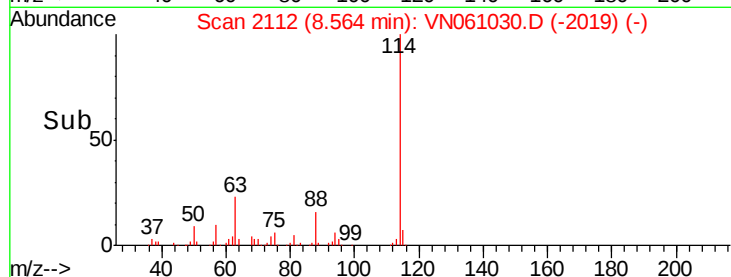
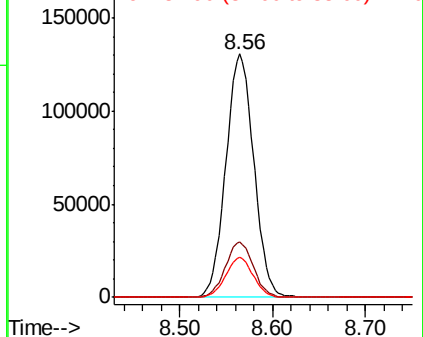
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	46.2
88	16.4	0.0	33.4

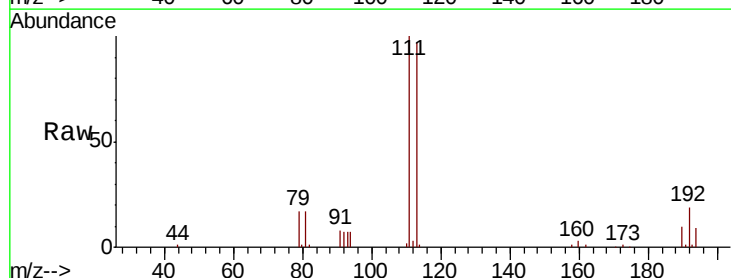


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

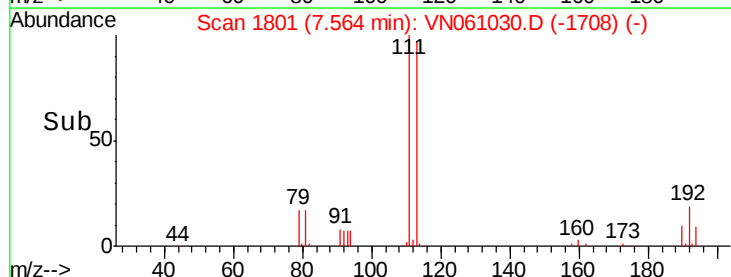
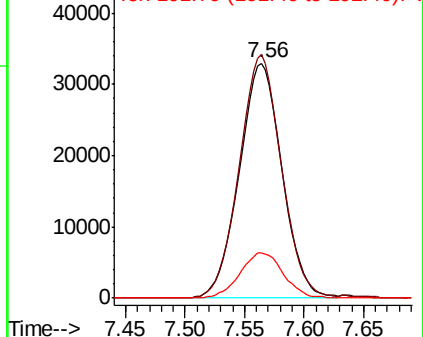


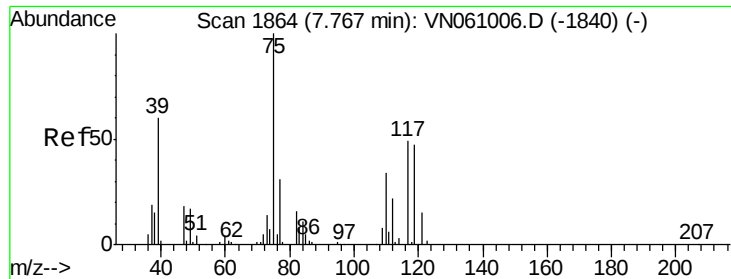
#35
 Dibromofluoromethane
 Concen: 51.267 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	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

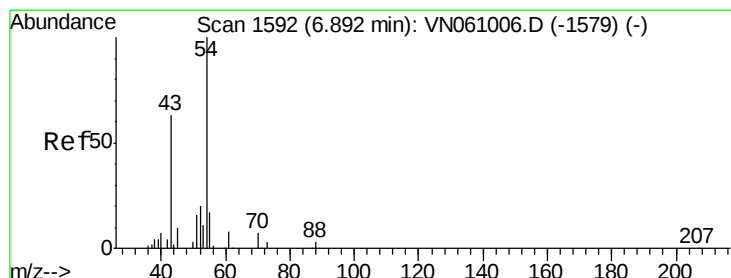
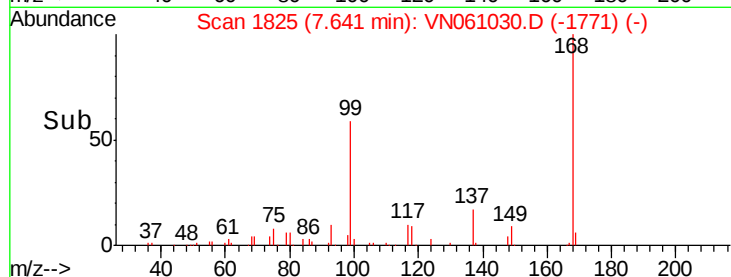
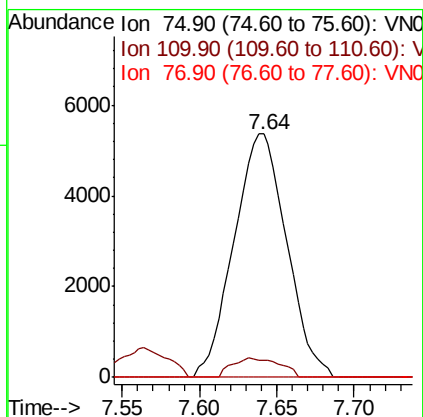
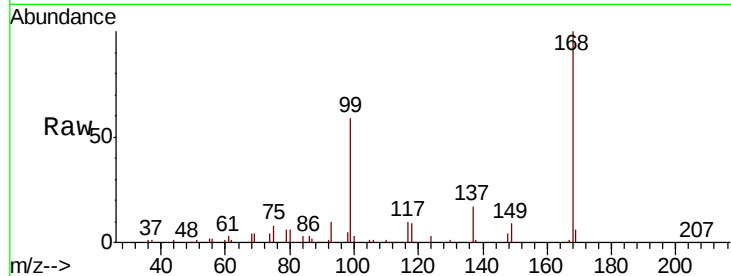




#36
 1,1-Dichloropropene
 Concen: 4.501 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

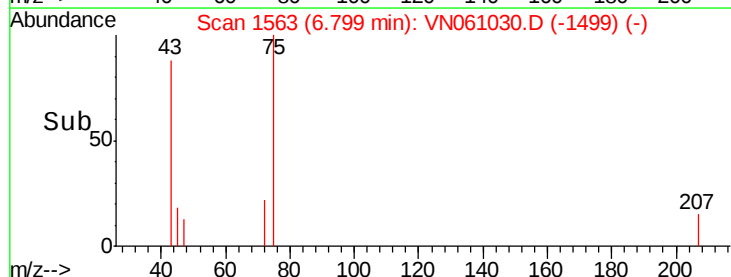
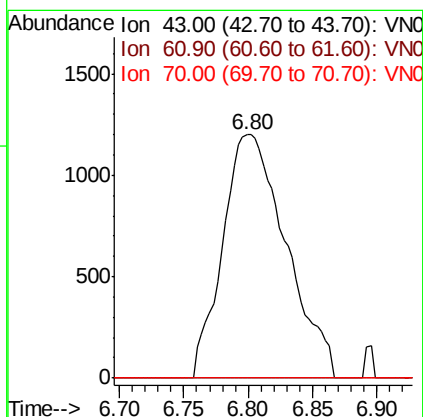
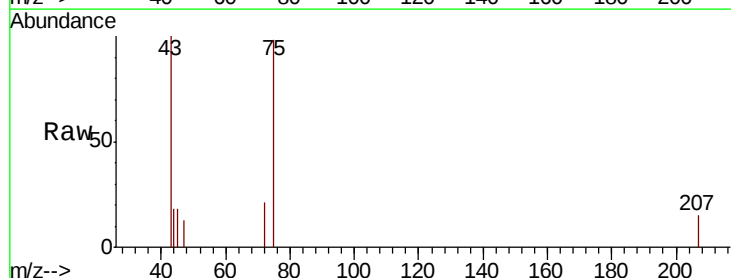
Instrument :
 MSVOA_N
 ClientSampled :

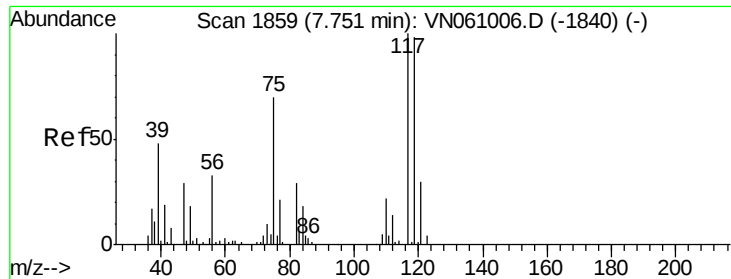
Tot Ion: 75 Resp: 12689
 Ion Ratio Lower Upper
 75 100
 110 7.2 16.8 50.3#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 1.340 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.09 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

Tgt Ion: 43 Resp: 4102
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.9 16.3#
 70 0.0 7.7 11.5#





#38

Carbon Tetrachloride

Concen: 6.718 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

Instrument :

MSVOA_N

ClientSampleId :

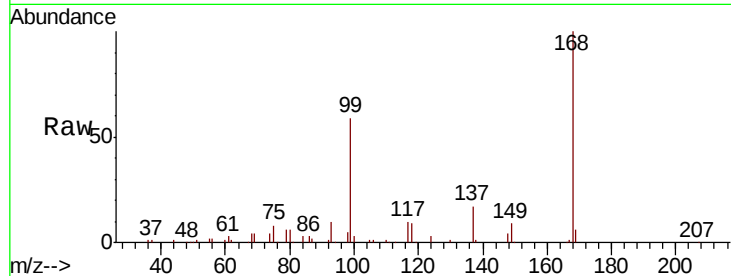
Tot Ion:117 Resp: 15765

Ion Ratio Lower Upper

117 100

119 4.4 78.1 117.1#

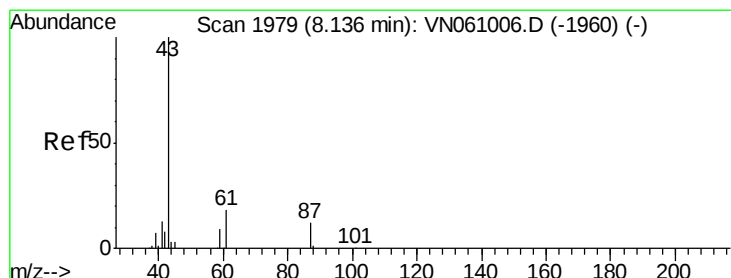
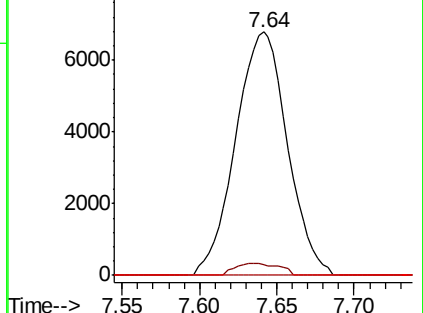
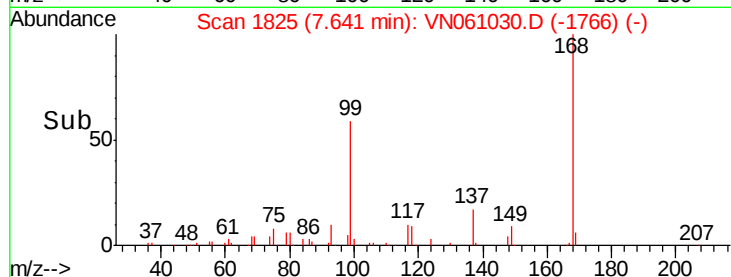
121 0.0 24.0 36.0#



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: 11.392 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

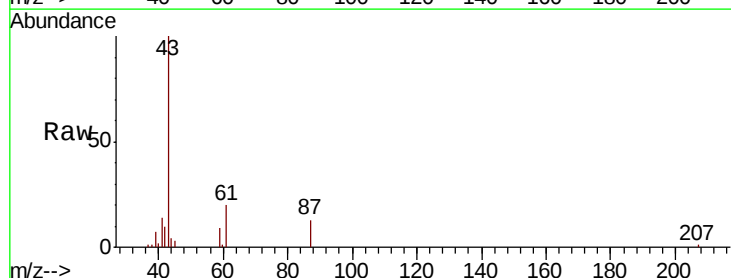
Tgt Ion: 43 Resp: 56723

Ion Ratio Lower Upper

43 100

61 19.1 20.3 30.5#

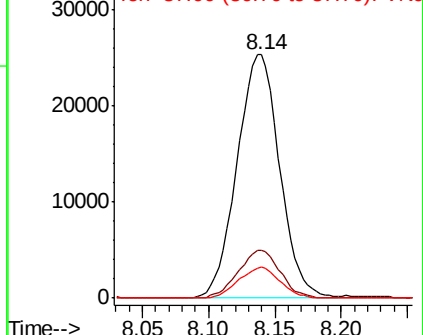
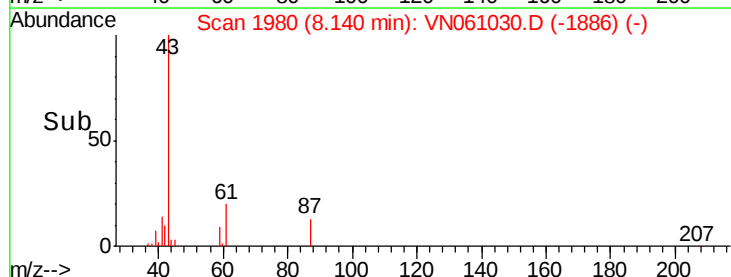
87 12.0 9.4 14.2

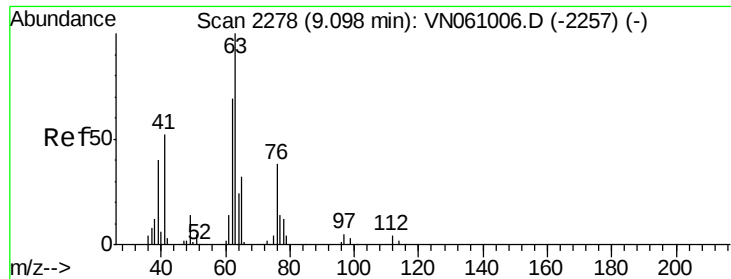


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

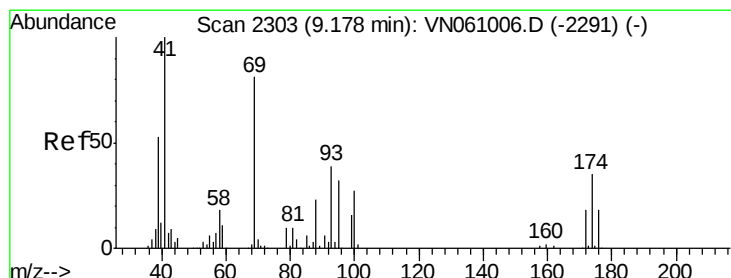
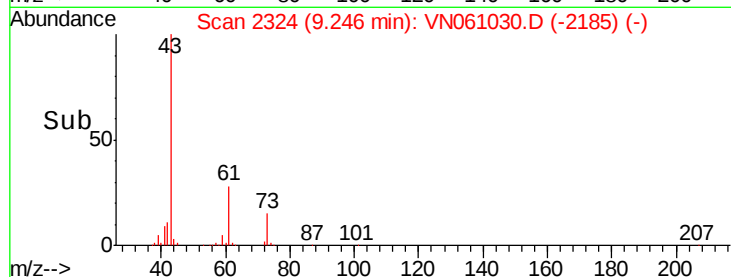
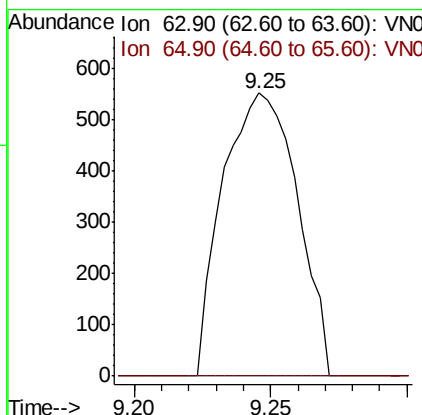
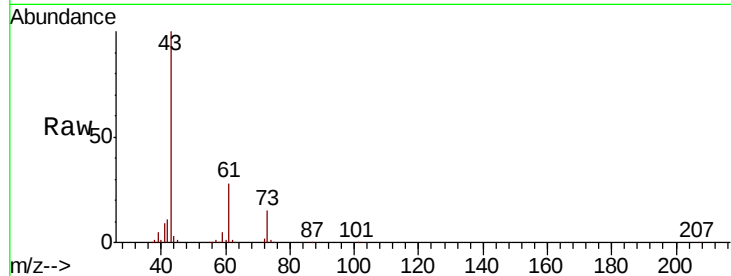




#45
 1,2-Dichloropropane
 Concen: 0.463 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.15 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

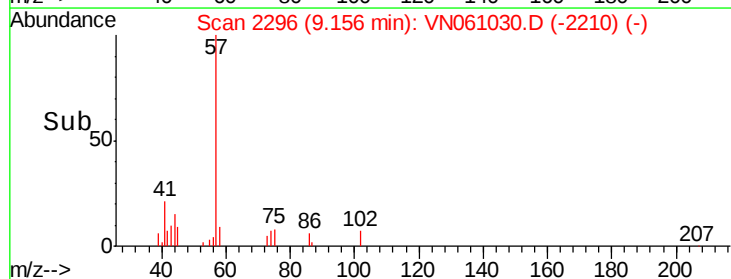
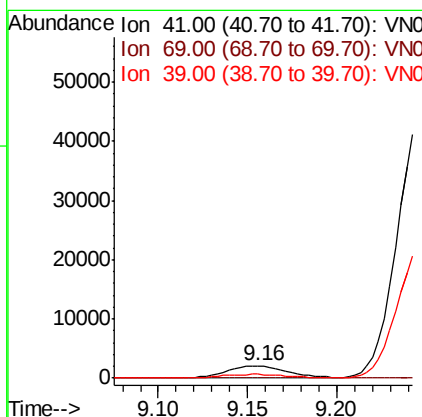
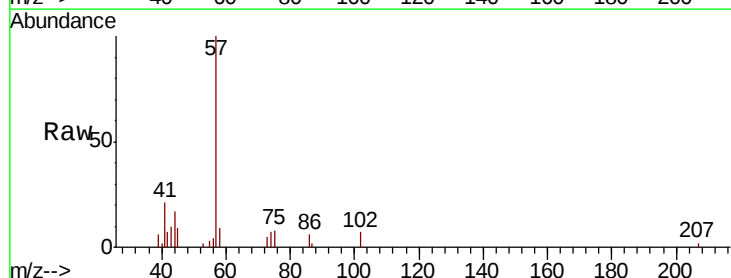
Instrument :
 MSVOA_N
 ClientSampleId :

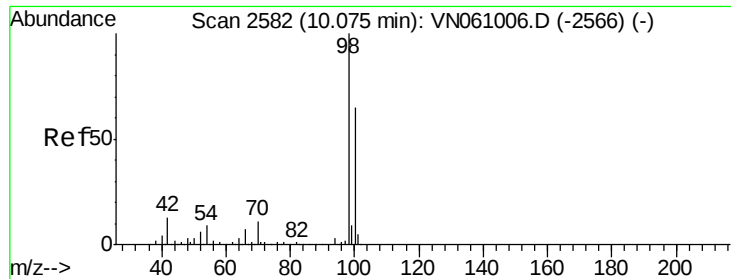
Tot Ion: 63 Resp: 1047
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#48
 Methyl methacrylate
 Concen: 2.210 ug/l
 RT: 9.16 min Scan# 2296
 Delta R.T. -0.02 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

Tgt Ion: 41 Resp: 4862
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.3 97.9#
 39 31.6 45.2 67.8#





#50

Toluene-d8

Concen: 56.473 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.00 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

Instrument :

MSVOA_N

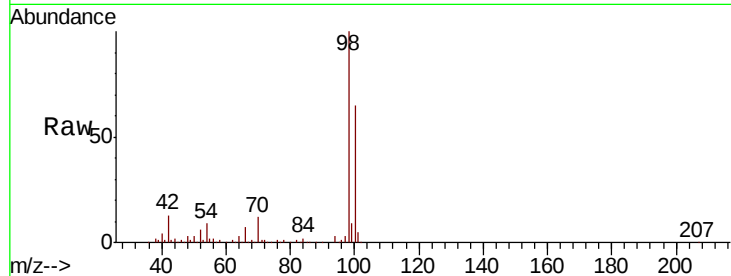
ClientSampleId :

Tot Ion: 98 Resp: 340497

Ion Ratio Lower Upper

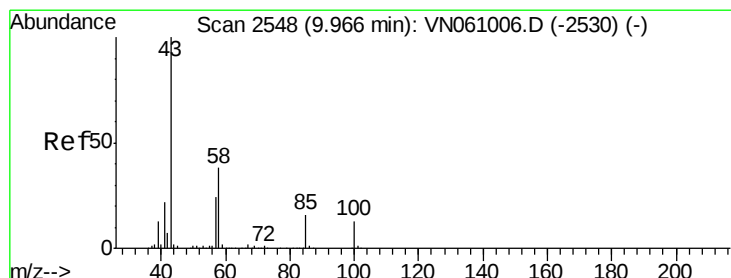
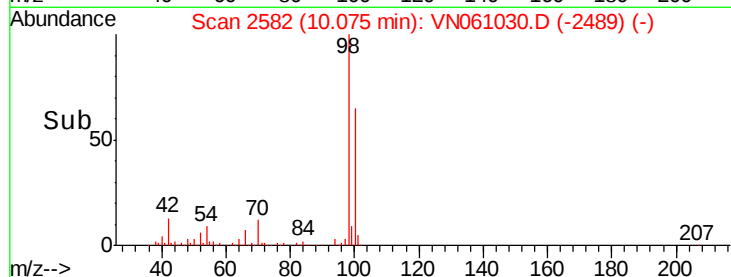
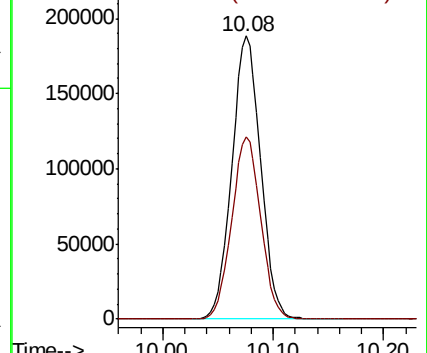
98 100

100 64.9 51.9 77.9



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: 2.523 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN061030.D

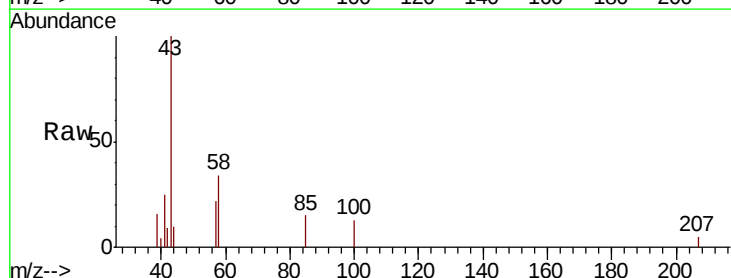
Acq: 16 Apr 2020 22:21

Tgt Ion: 43 Resp: 7241

Ion Ratio Lower Upper

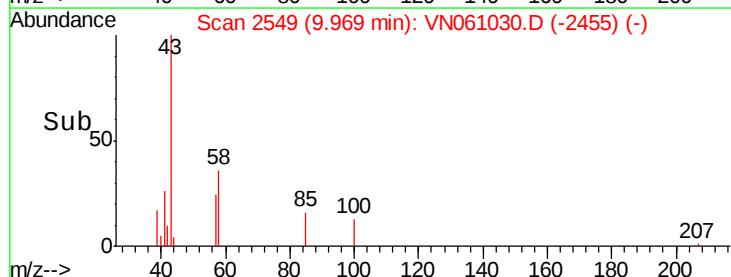
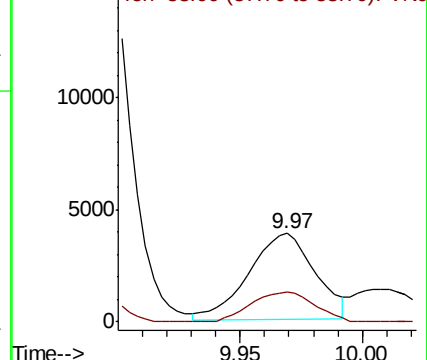
43 100

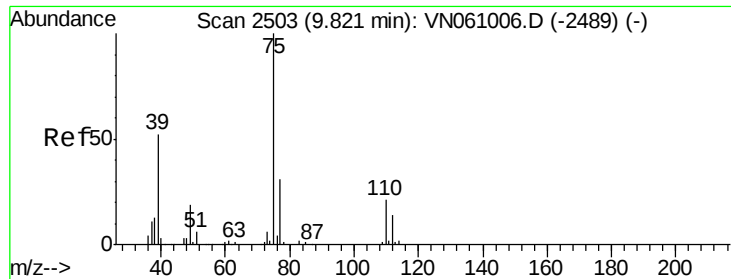
58 33.2 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



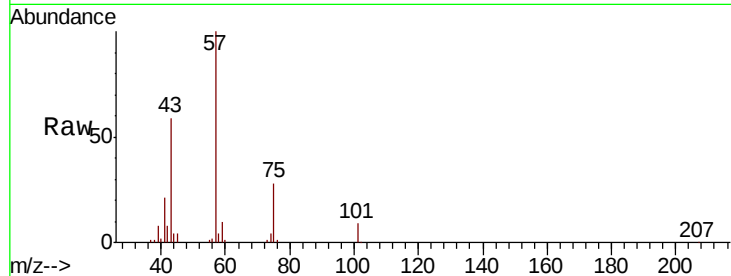


#54

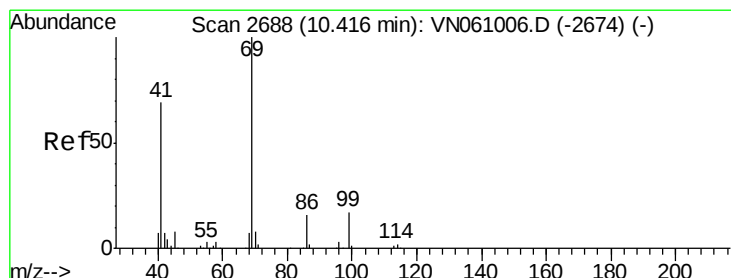
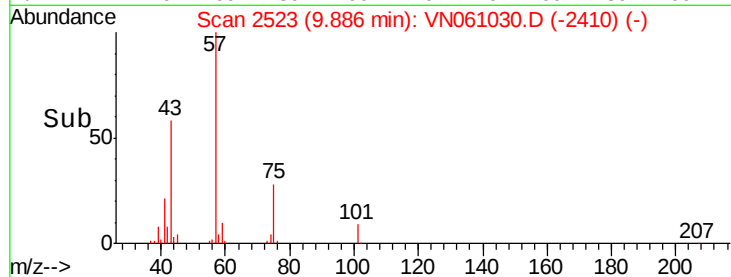
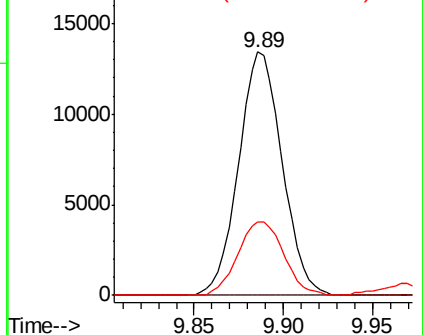
cis-1,3-Dichloropropene
 Concen: 6.538 ug/l
 RT: 9.89 min Scan# 2523
 Delta R.T. 0.06 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.0	37.6#
39	30.1	41.4	62.2#



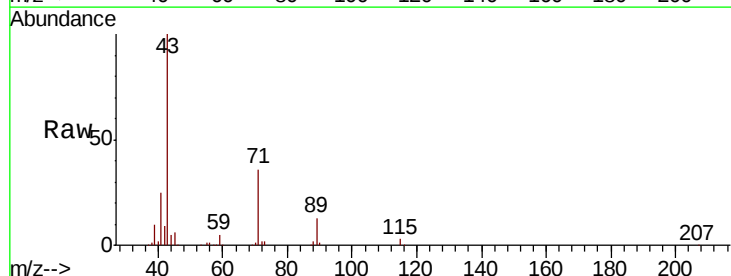
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



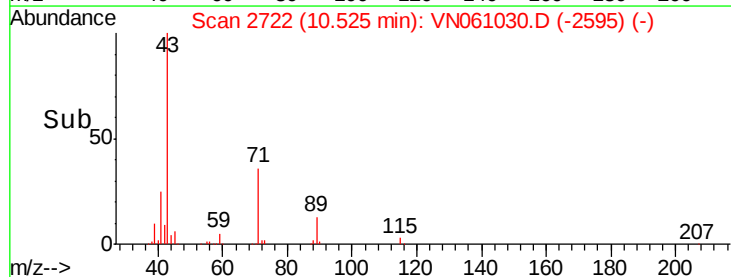
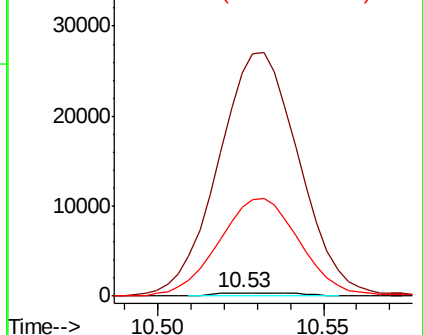
#56

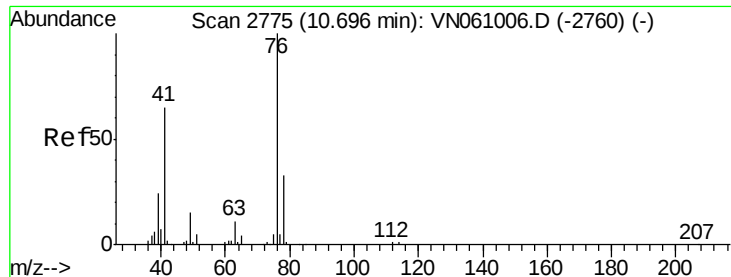
Ethyl methacrylate
 Concen: 0.206 ug/l
 RT: 10.53 min Scan# 2722
 Delta R.T. 0.11 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

Tgt Ion	Ratio	Lower	Upper
69	100		
41	7488.3	56.7	85.1#
39	2996.9	29.4	44.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0
 Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.029 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

Instrument :

MSVOA_N

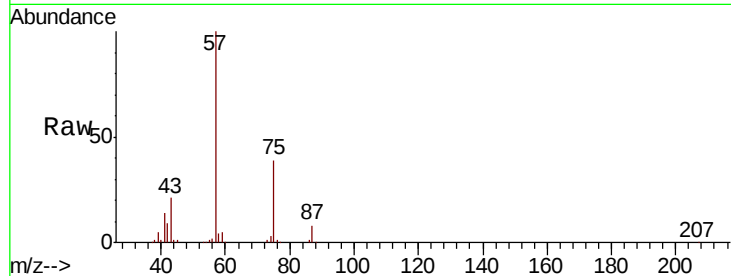
ClientSampleId :

Tot Ion: 76 Resp: 3485

Ion Ratio Lower Upper

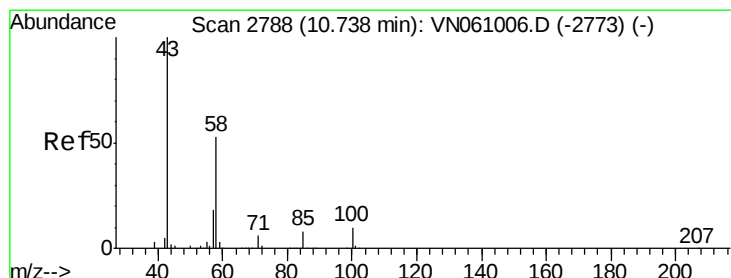
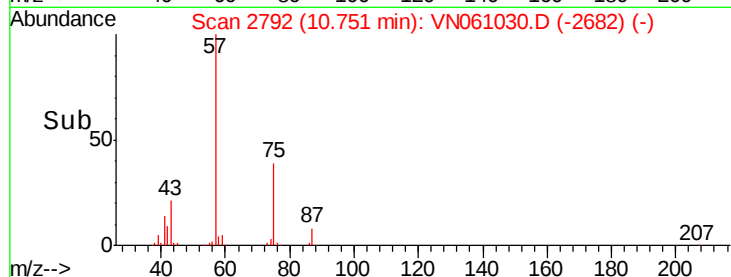
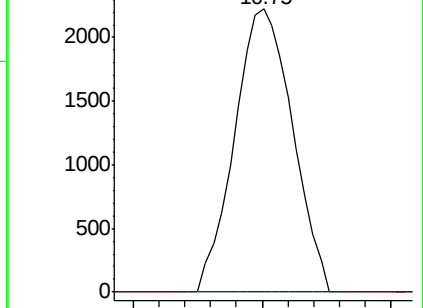
76 100

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: 27.069 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN061030.D

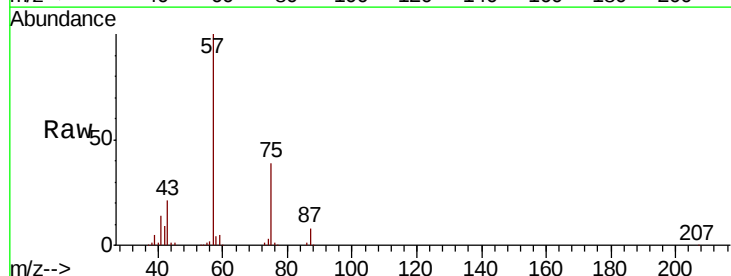
Acq: 16 Apr 2020 22:21

Tgt Ion: 43 Resp: 56032

Ion Ratio Lower Upper

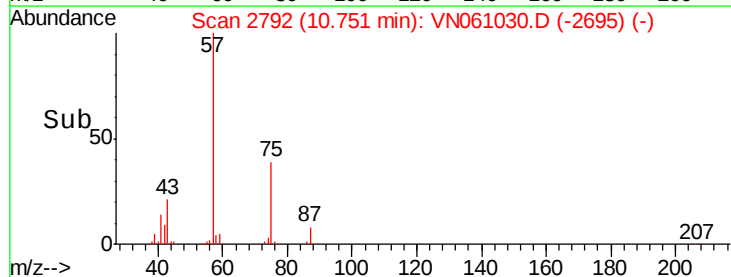
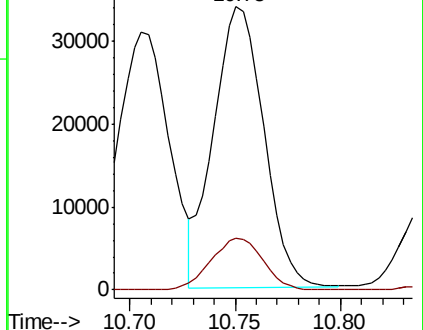
43 100

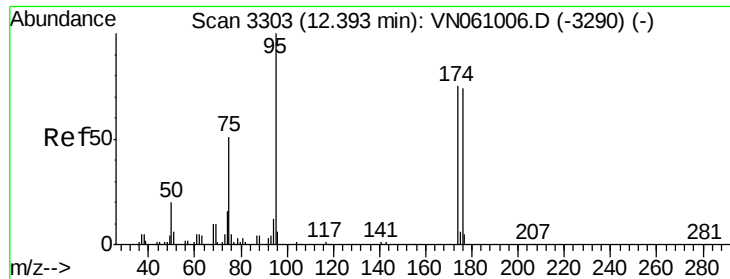
58 19.1 26.4 79.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-2773) (-)

Ion 58.00 (57.70 to 58.70): VN061006.D (-2773) (-)

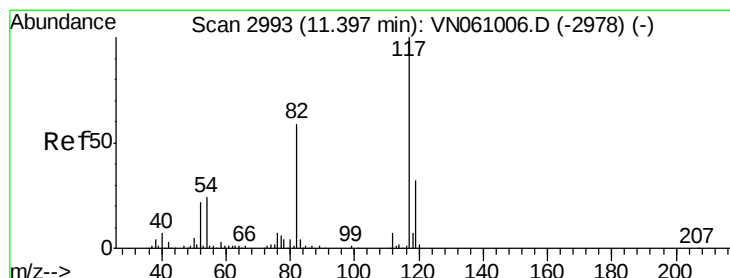
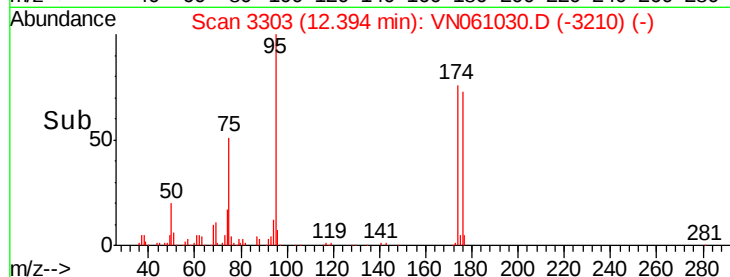
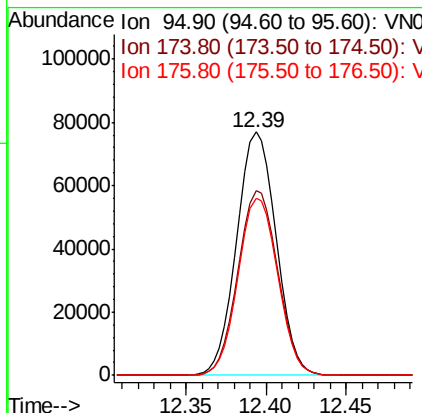
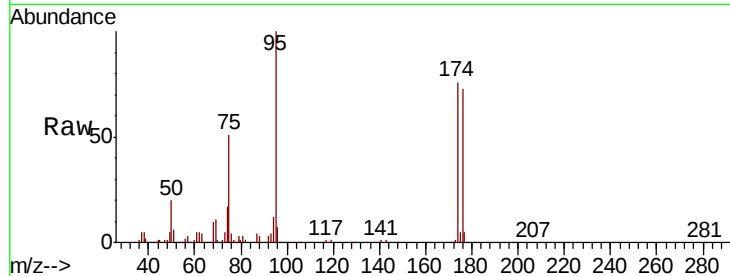




#62
 4-Bromofluorobenzene
 Concen: 54.727 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. 0.00 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

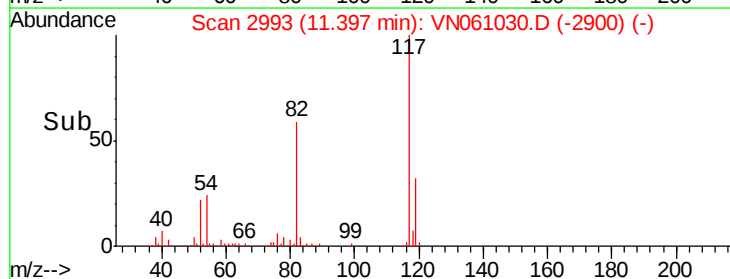
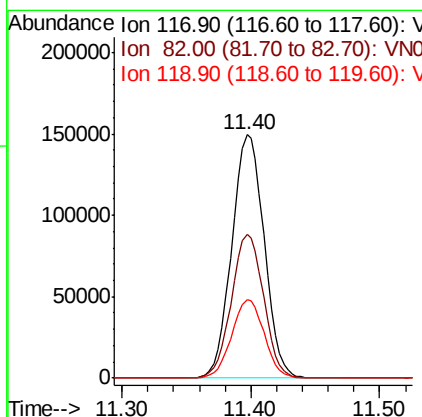
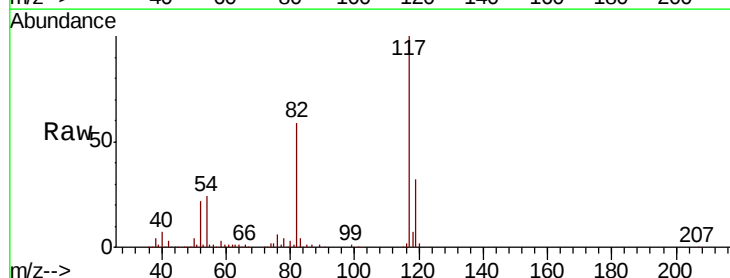
Instrument :
 MSVOA_N
 ClientSampled :

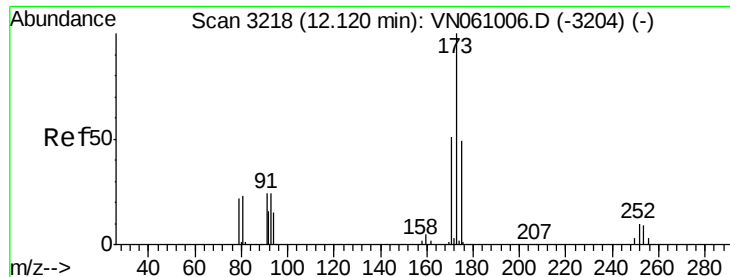
Tot Ion	95	Resp	129326
Ion Ratio	Lower	Upper	
95	100		
174	76.6	0.0	151.2
176	73.5	0.0	148.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.40 min Scan# 2993
 Delta R.T. 0.00 min
 Lab File: VN061030.D
 Acq: 16 Apr 2020 22:21

Tgt Ion	117	Resp	260609
Ion Ratio	Lower	Upper	
117	100		
82	59.2	47.1	70.7
119	32.2	25.7	38.5





#71

Bromoform

Concen: 0.296 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

Instrument :

MSVOA_N

ClientSampled :

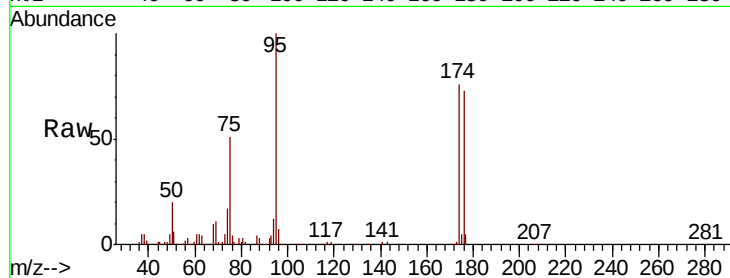
Tot Ion:173 Resp: 425

Ion Ratio Lower Upper

173 100

175 1489.4 24.5 73.5#

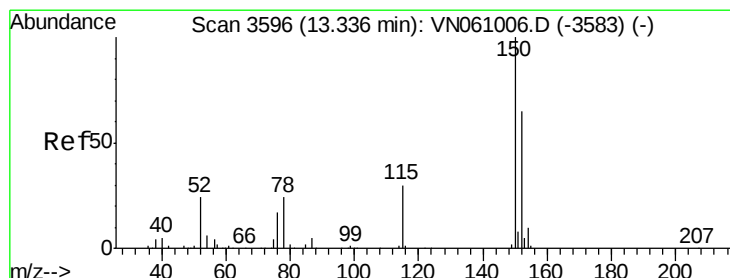
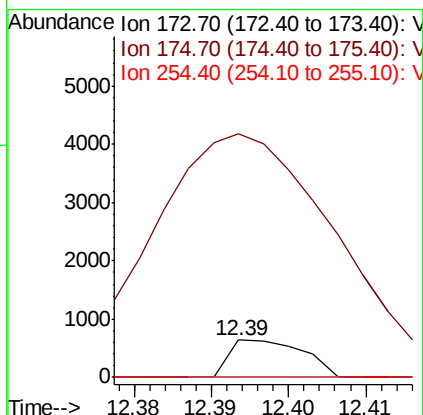
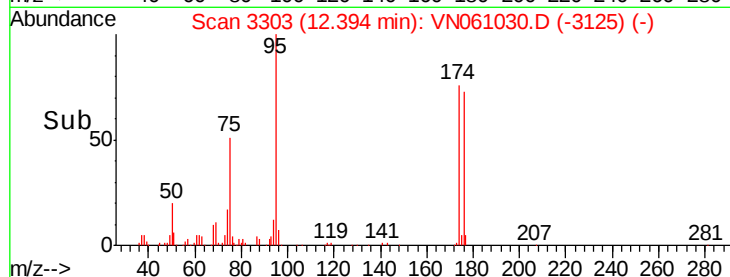
254 0.0 0.0 0.0



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: 13.34 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

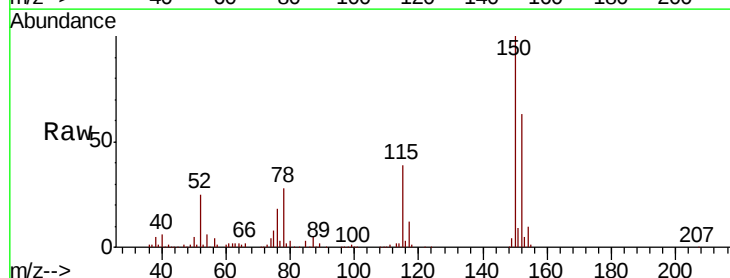
Tgt Ion:152 Resp: 118644

Ion Ratio Lower Upper

152 100

115 61.0 30.8 92.4

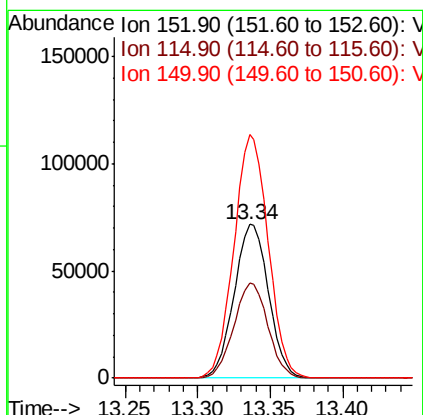
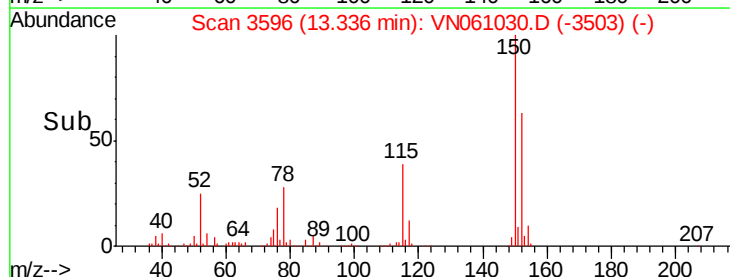
150 156.9 0.0 349.0

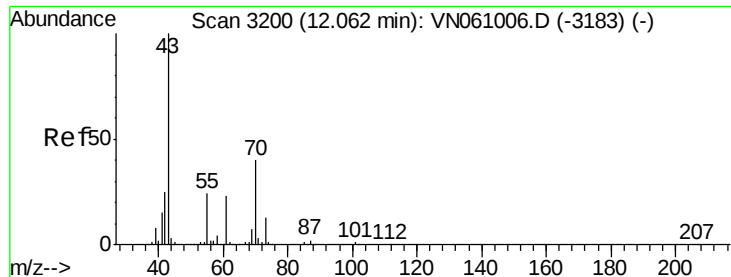


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.378 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 6092

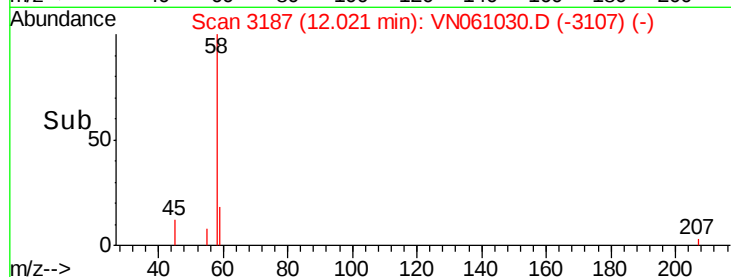
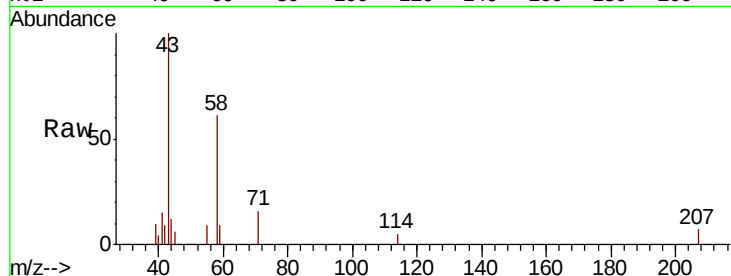
Ion Ratio Lower Upper

43 100

70 0.0 31.0 46.6#

55 6.7 18.6 27.8#

61 0.0 18.2 27.4#

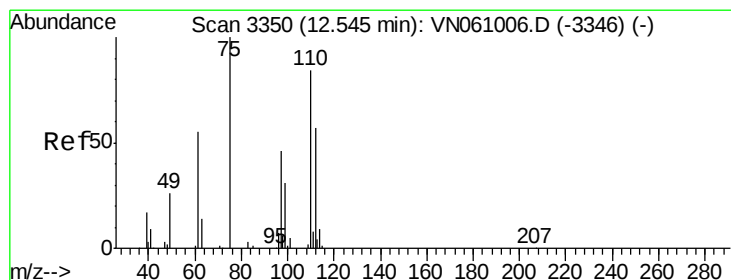
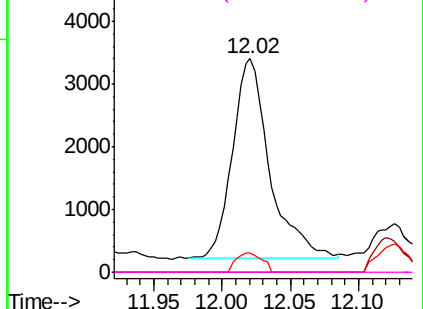


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.305 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061030.D

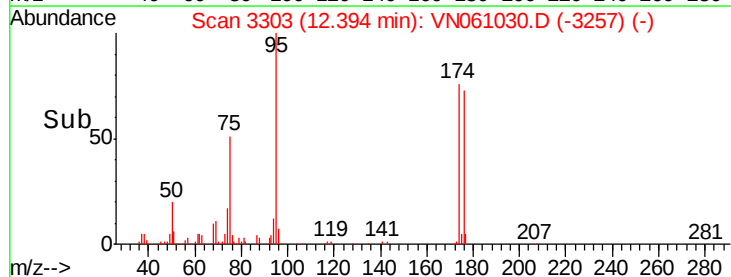
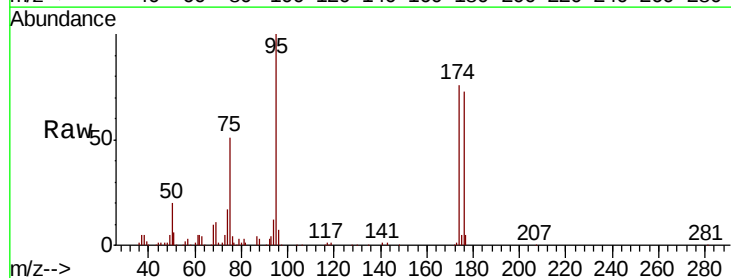
Acq: 16 Apr 2020 22:21

Tgt Ion: 75 Resp: 66037

Ion Ratio Lower Upper

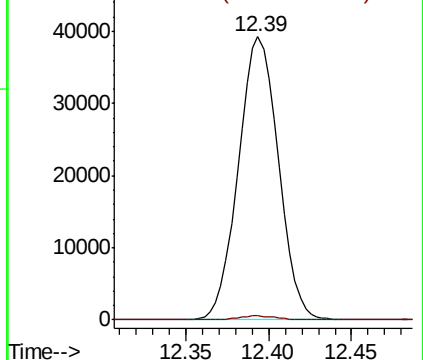
75 100

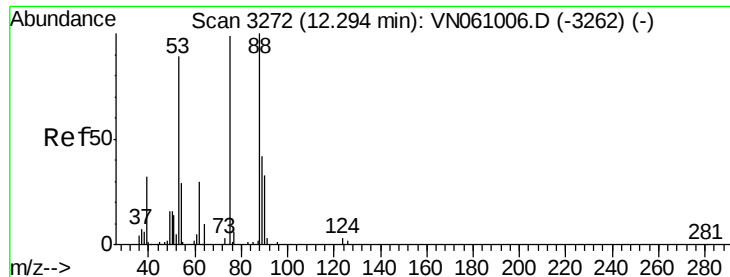
77 1.2 0.0 0.0#



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: 62.416 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061030.D

Acq: 16 Apr 2020 22:21

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 66037

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 34.6 52.0#

