

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060861.D
 Acq On : 6 Apr 2020 18:58
 Operator : JC/MD
 Sample : L2146-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-67-66-COMP

Quant Time: Apr 07 07:07:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	212078	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	353284	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	333122	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	153403	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	137158	47.11	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.22%	
35) Dibromofluoromethane	7.57	113	105999	49.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.24%	
50) Toluene-d8	10.08	98	441672	50.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.24%	
62) 4-Bromofluorobenzene	12.40	95	164706	51.51	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.02%	

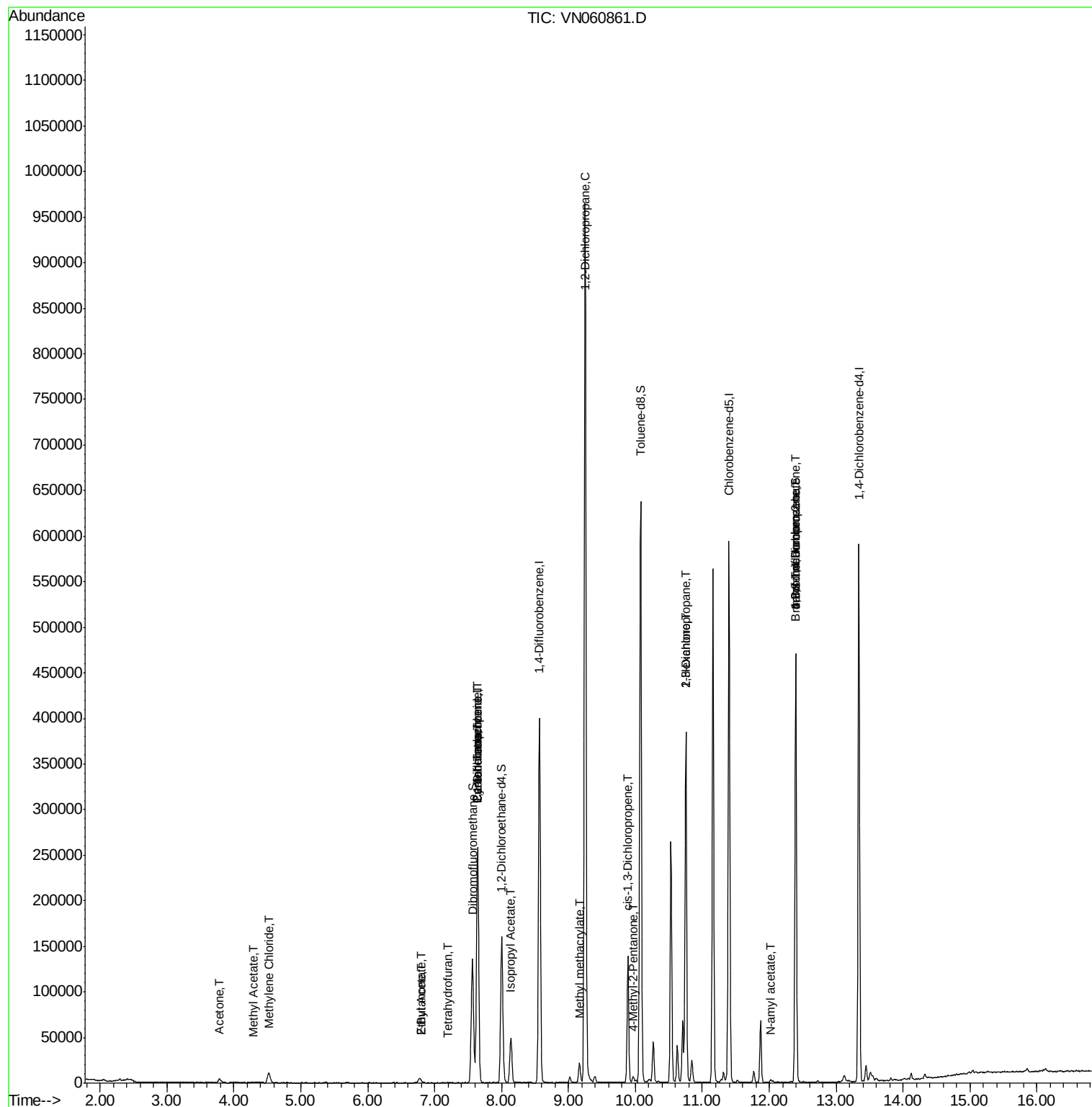
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	8023	7.780	ug/l	95
18) Methyl Acetate	4.29	43	1945	0.670	ug/l #	54
20) Methylene Chloride	4.53	84	8171	3.221	ug/l	93
25) 2-Butanone	6.81	43	1699	1.018	ug/l #	50
29) Tetrahydrofuran	7.19	42	247	0.209	ug/l #	35
31) Cyclohexane	7.64	56	4373	0.933	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16692	4.879	ug/l #	49
37) Ethyl Acetate	6.81	43	1699	0.460	ug/l #	70
38) Carbon Tetrachloride	7.64	117	20254	6.606	ug/l #	15
43) Isopropyl Acetate	8.14	43	59755	9.802	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1163	0.427	ug/l #	43
48) Methyl methacrylate	9.16	41	3482	1.283	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5392	1.554	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	24708	5.728	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3671	0.882	ug/l #	42
59) 2-Hexanone	10.75	43	56891	22.767	ug/l #	52
71) Bromoform	12.38	173	123	1.740	ug/l #	29
74) N-amyl acetate	12.02	43	2961	0.557	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	83518	25.231	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	83518	64.801	ug/l #	13

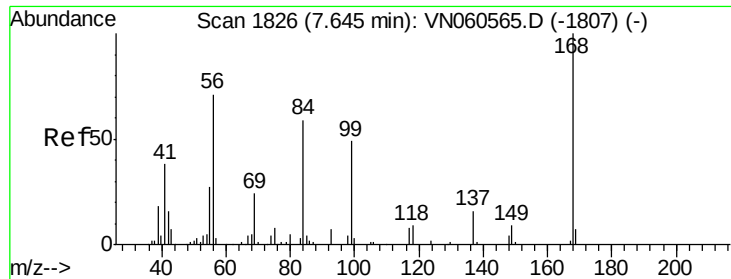
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

Instrument :

MSVOA_N

ClientSampled :

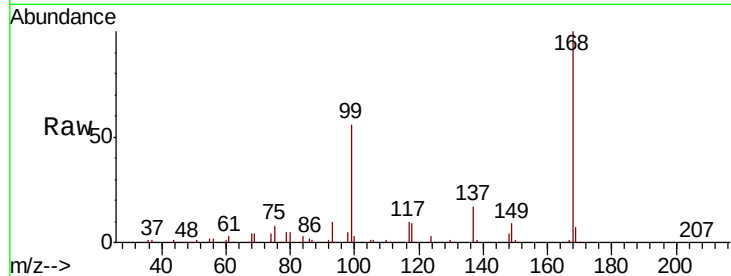
TP-67-66-COMP

Tot Ion:168 Resp: 212078

Ion Ratio Lower Upper

168 100

99 56.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060861.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060861.D (-1733) (-)

7.64

80000

60000

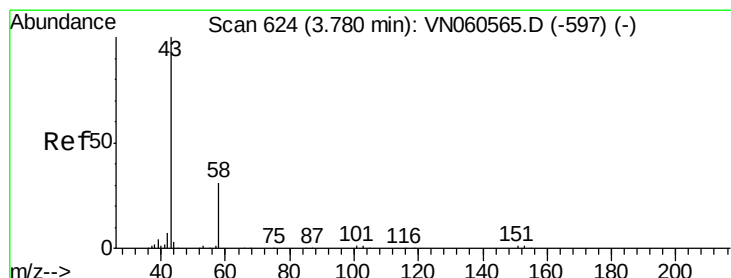
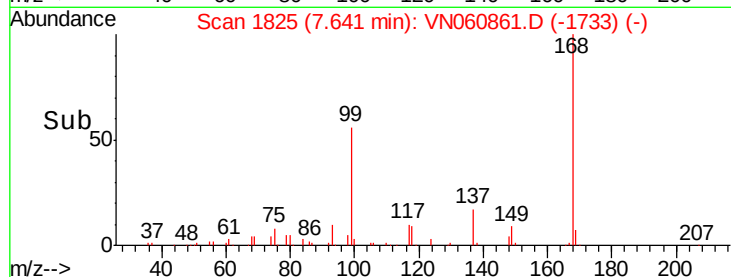
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 7.780 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060861.D

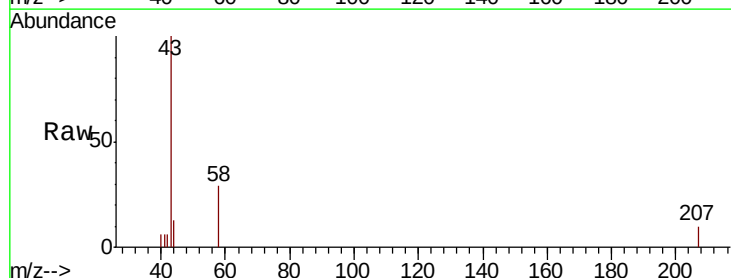
Acq: 6 Apr 2020 18:58

Tgt Ion: 43 Resp: 8023

Ion Ratio Lower Upper

43 100

58 28.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060861.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060861.D (-531) (-)

3.78

3000

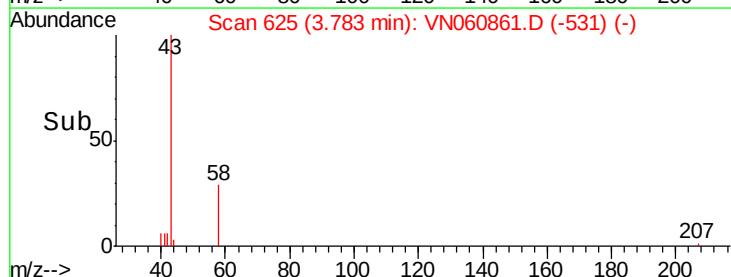
2000

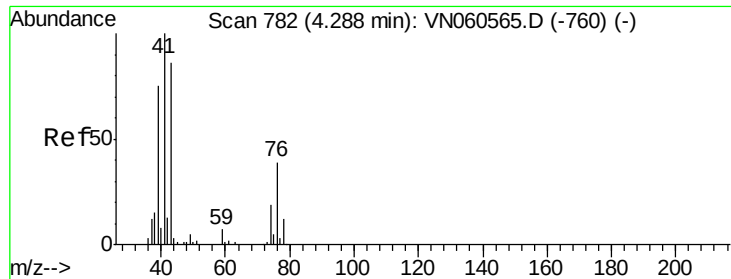
1000

0

3.70 3.75 3.80 3.85

Time-->

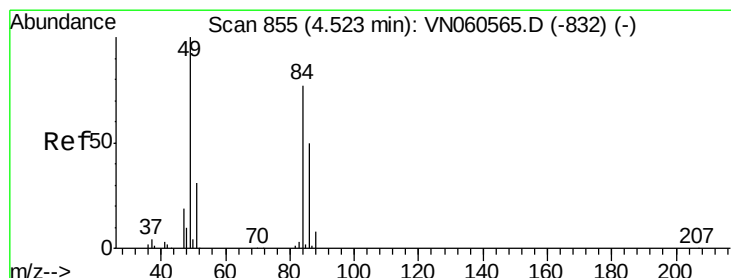
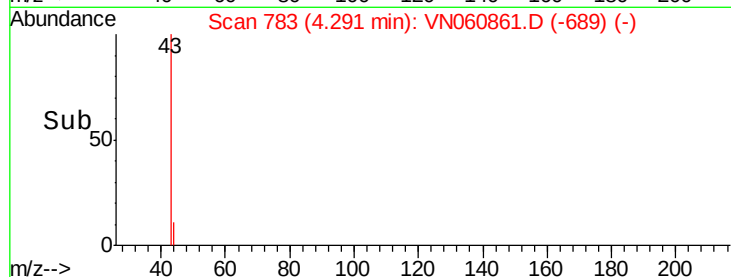
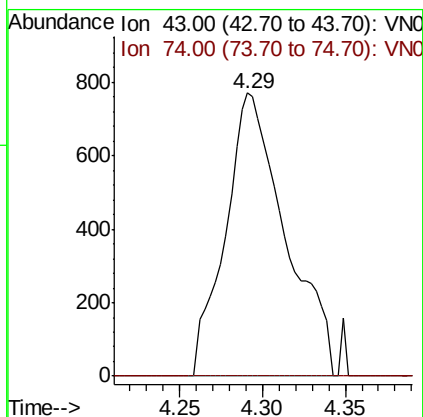
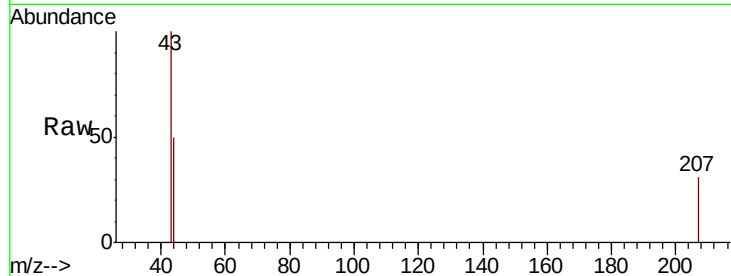




#18
Methvl Acetate
Concen: 0.670 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

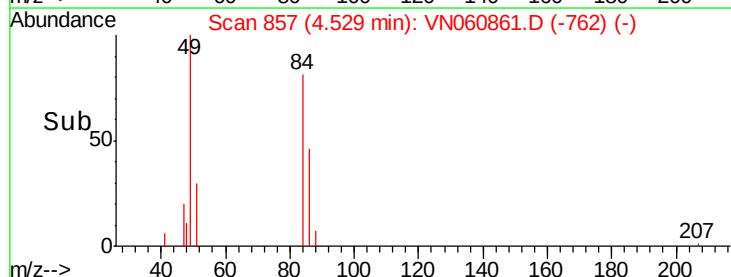
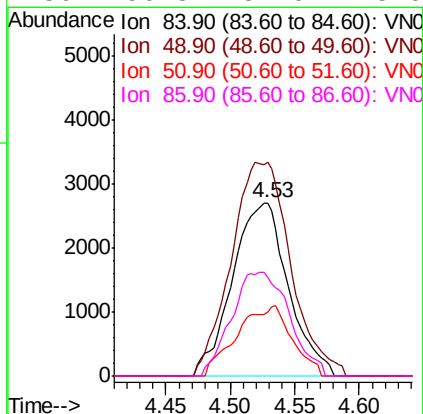
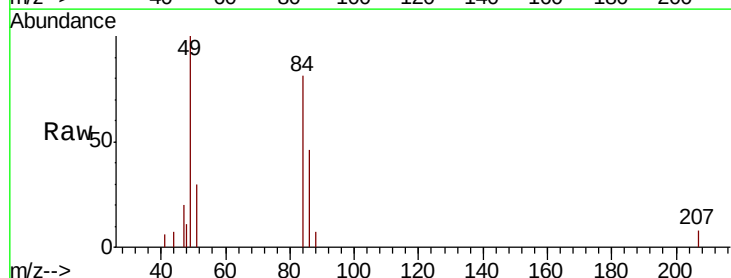
Instrument :
MSVOA_N
ClientSampleId :
TP-67-66-COMP

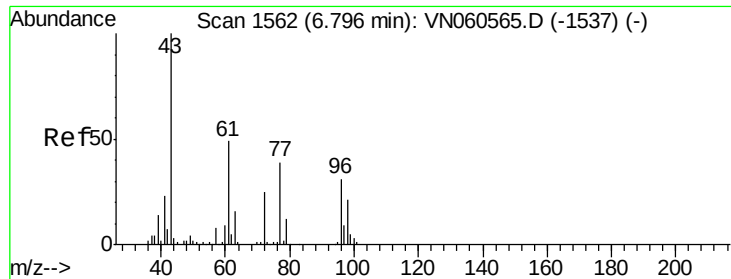
Tot Ion: 43 Resp: 1945
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 3.221 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

Tgt Ion: 84 Resp: 8171
Ion Ratio Lower Upper
84 100
49 123.1 103.3 154.9
51 36.7 31.6 47.4
86 56.8 52.0 78.0





#25

2-Butanone

Concen: 1.018 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

Instrument :

MSVOA_N

ClientSampleId :

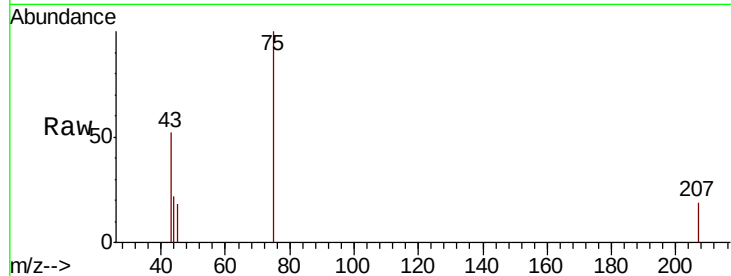
TP-67-66-COMP

Tot Ion: 43 Resp: 1699

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-1537) (-)

Ion 72.00 (71.70 to 72.70): VN060565.D (-1537) (-)

6.81

500

400

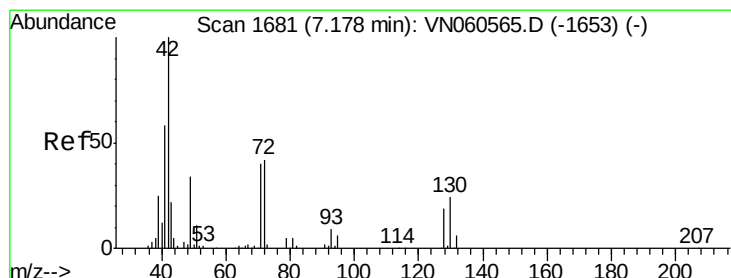
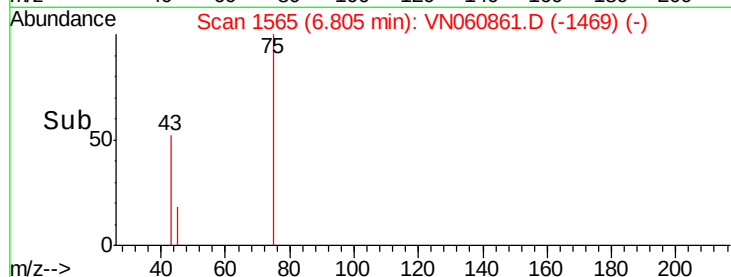
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.209 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.02 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

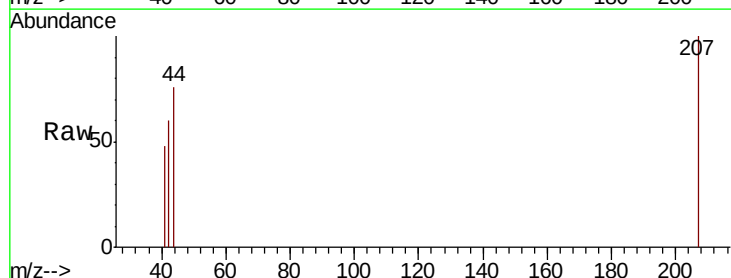
Tgt Ion: 42 Resp: 247

Ion Ratio Lower Upper

42 100

72 0.0 33.2 49.8#

71 0.0 31.1 46.7#



Abundance Ion 42.00 (41.70 to 42.70): VN060565.D (-1653) (-)

Ion 72.00 (71.70 to 72.70): VN060565.D (-1653) (-)

Ion 71.00 (70.70 to 71.70): VN060565.D (-1653) (-)

250

200

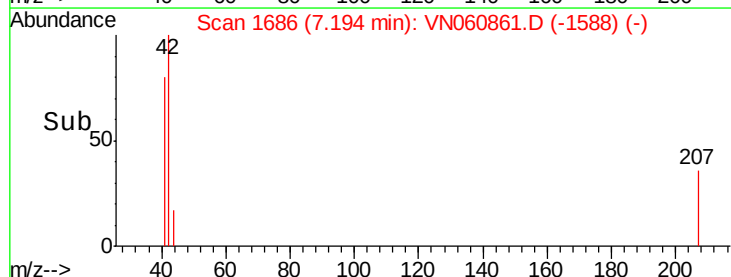
150

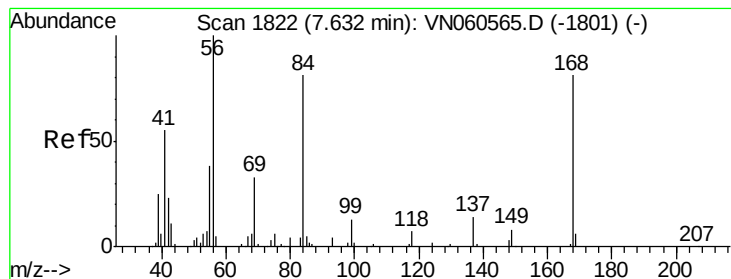
100

50

0

Time-->





#31

Cyclohexane

Concen: 0.933 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

Instrument :

MSVOA_N

ClientSampleId :

TP-67-66-COMP

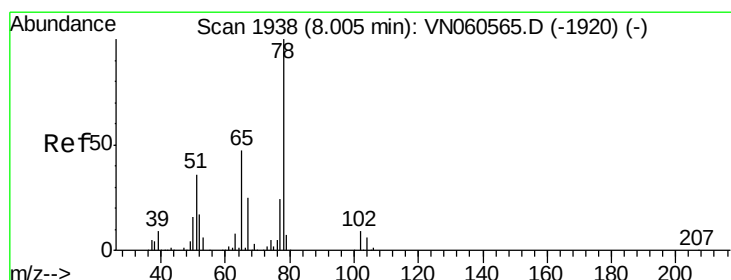
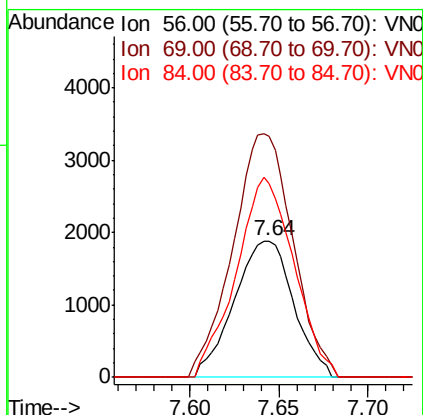
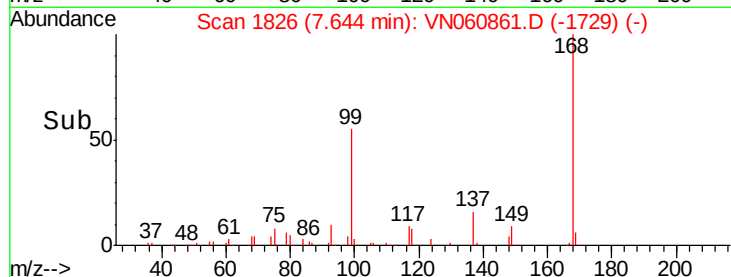
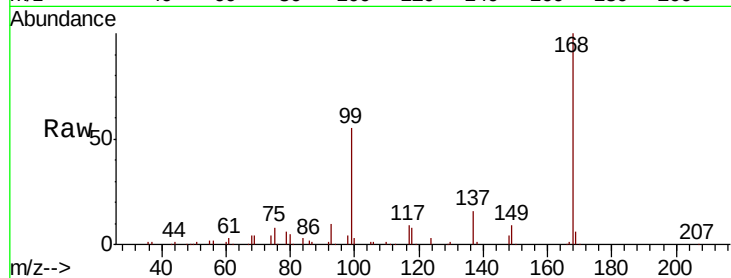
Tot Ion: 56 Resp: 4373

Ion Ratio Lower Upper

56 100

69 176.5 26.6 40.0#

84 141.5 64.3 96.5#



#33

1,2-Dichloroethane-d4

Concen: 47.112 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060861.D

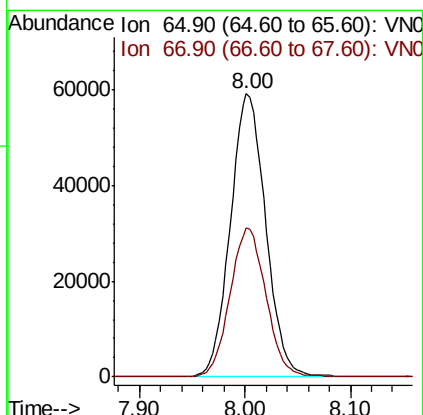
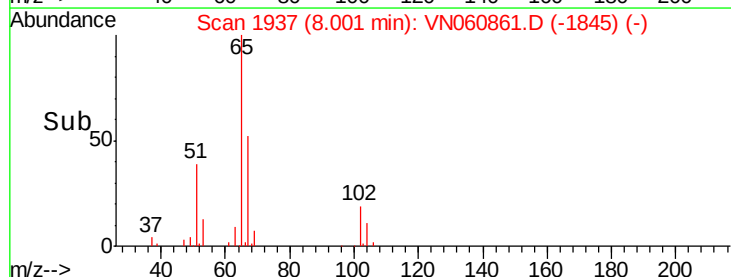
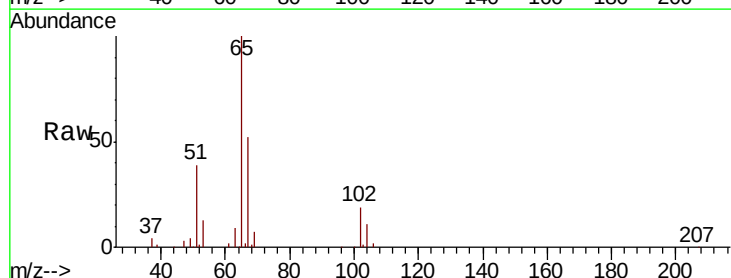
Acq: 6 Apr 2020 18:58

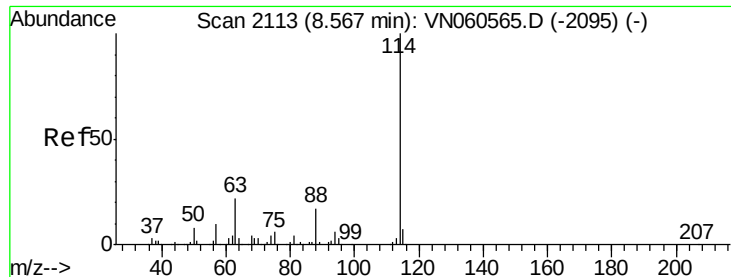
Tgt Ion: 65 Resp: 137158

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.6

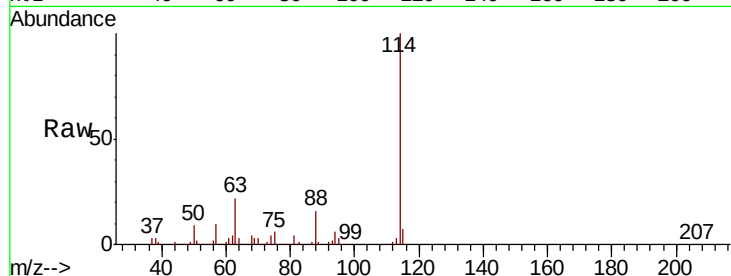




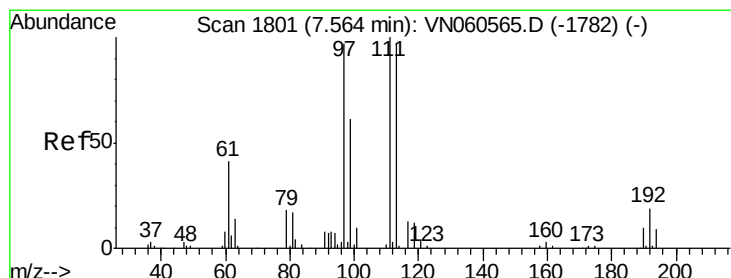
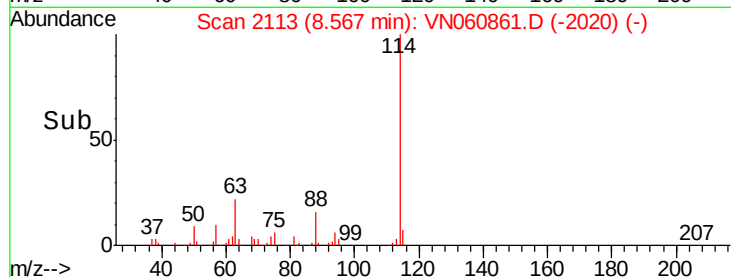
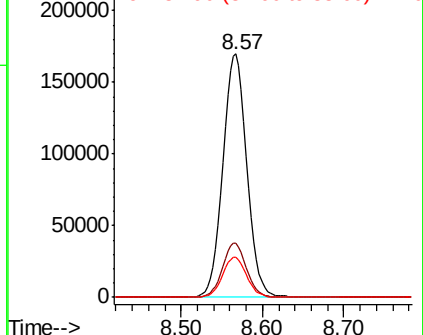
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060861.D
 Acq: 6 Apr 2020 18:58

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-67-66-COMP

Tot Ion:114 Resp: 353284
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.8
 88 16.4 0.0 33.0

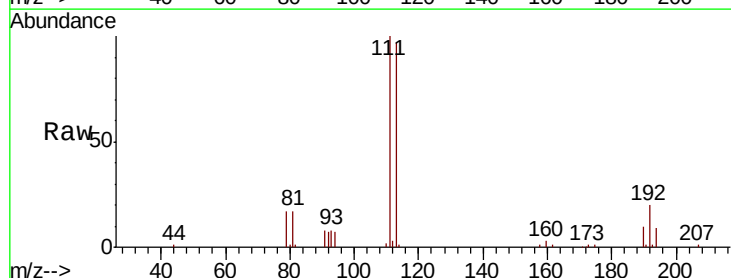


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

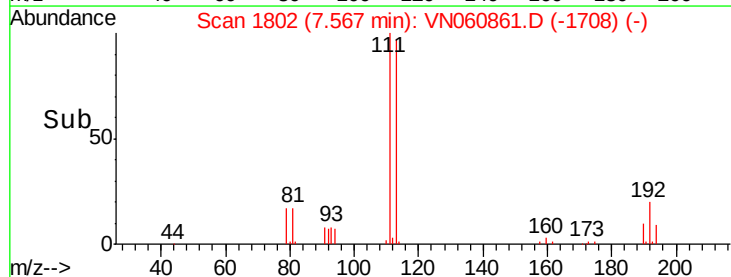
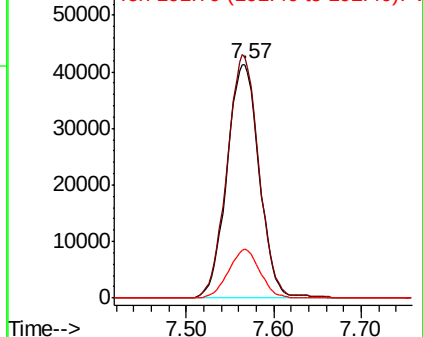


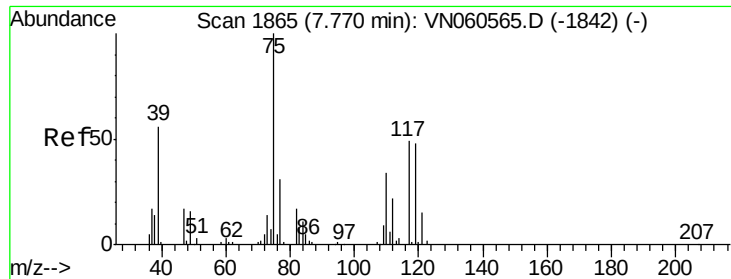
#35
 Dibromofluoromethane
 Concen: 49.620 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060861.D
 Acq: 6 Apr 2020 18:58

Tgt Ion:113 Resp: 105999
 Ion Ratio Lower Upper
 113 100
 111 102.0 82.9 124.3
 192 20.1 15.8 23.8



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: 4.879 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

Instrument :

MSVOA_N

ClientSampleId :

TP-67-66-COMP

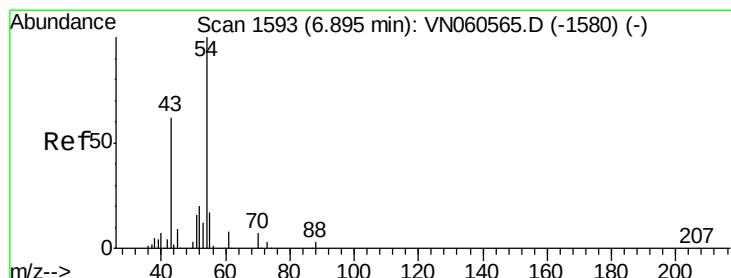
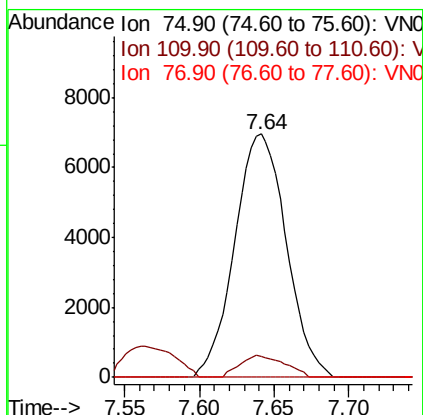
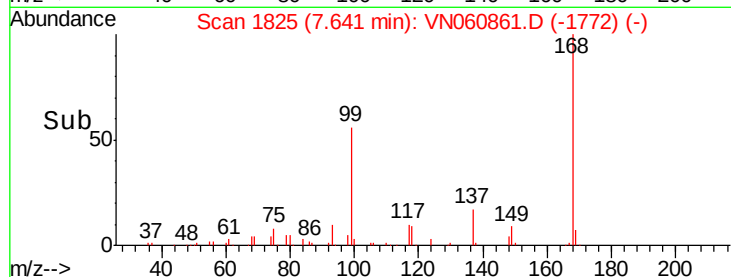
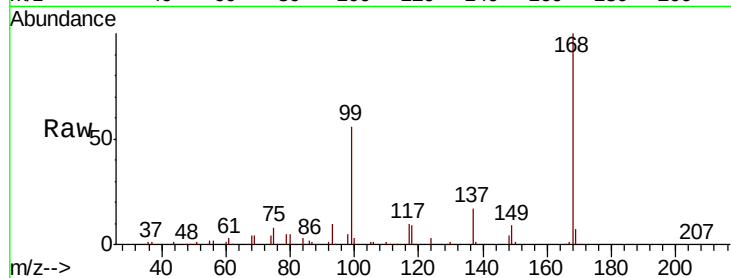
Tot Ion: 75 Resp: 16692

Ion Ratio Lower Upper

75 100

110 7.8 16.9 50.6#

77 0.0 24.6 36.8#



#37

Ethyl Acetate

Concen: 0.460 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.09 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

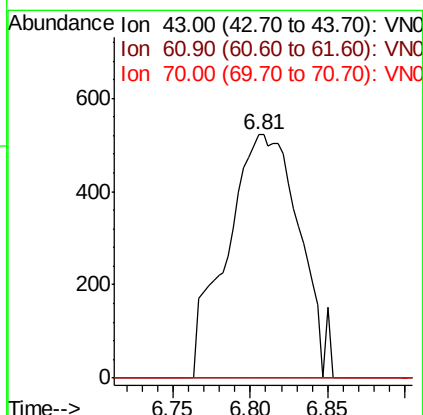
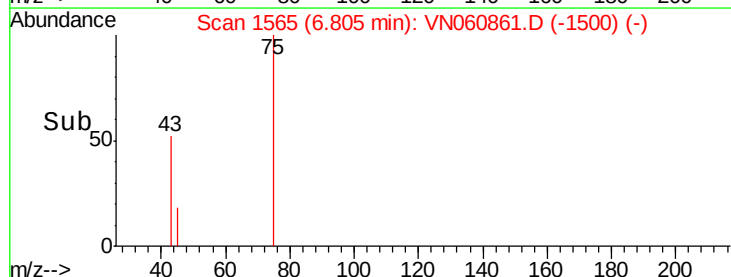
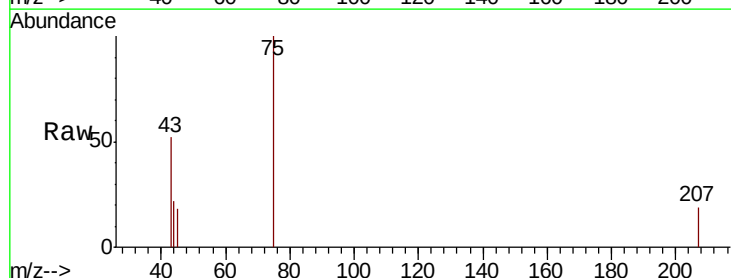
Tgt Ion: 43 Resp: 1699

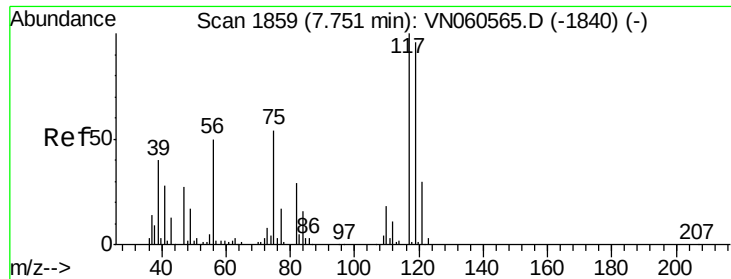
Ion Ratio Lower Upper

43 100

61 0.0 10.6 15.8#

70 0.0 7.9 11.9#

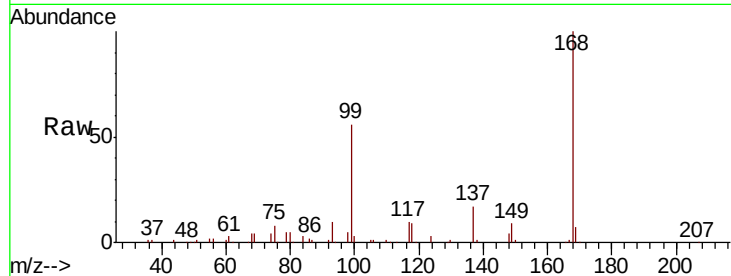




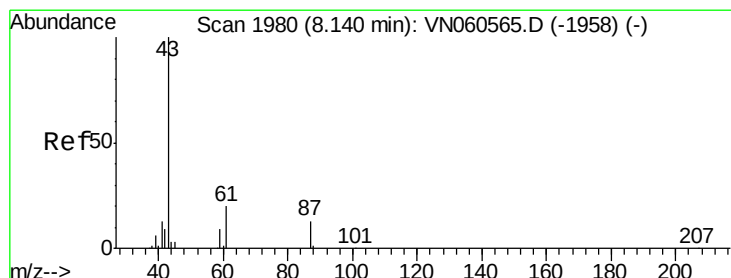
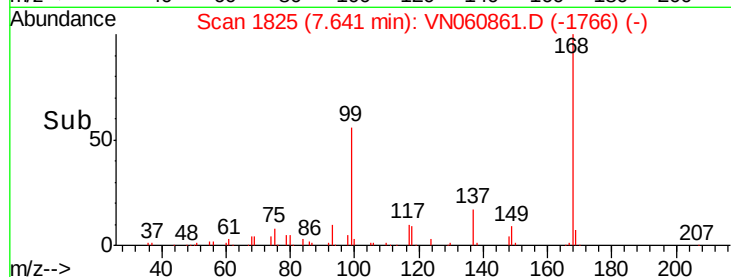
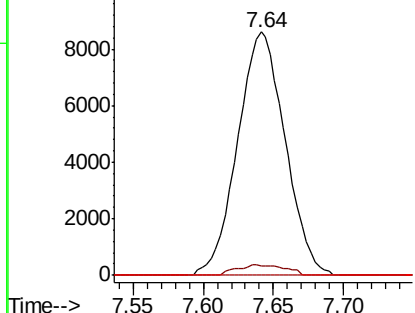
#38
Carbon Tetrachloride
Concen: 6.606 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

Instrument :
MSVOA_N
ClientSampleId :
TP-67-66-COMP

Tot Ion:117 Resp: 20254
Ion Ratio Lower Upper
117 100
119 3.9 76.2 114.2#
121 0.0 23.7 35.5#

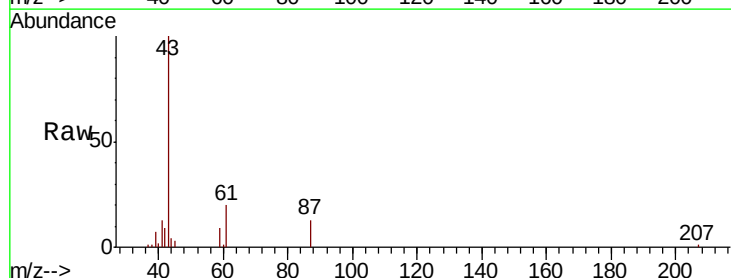


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

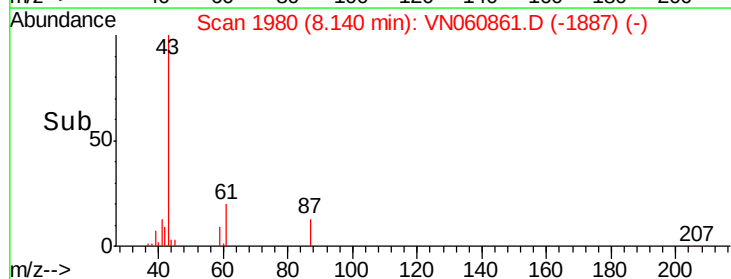
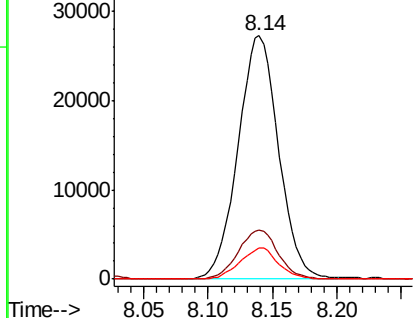


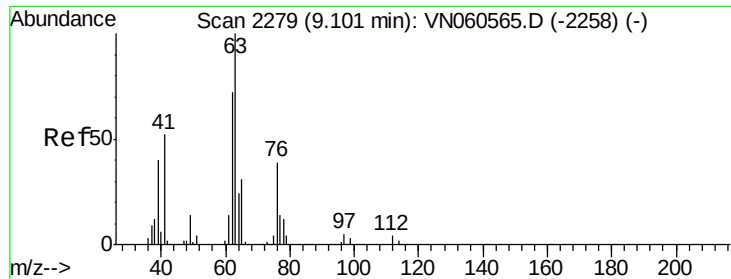
#43
Isopropyl Acetate
Concen: 9.802 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

Tgt Ion: 43 Resp: 59755
Ion Ratio Lower Upper
43 100
61 19.8 20.7 31.1#
87 11.9 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

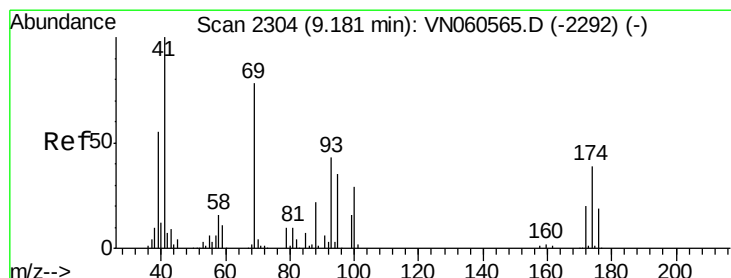
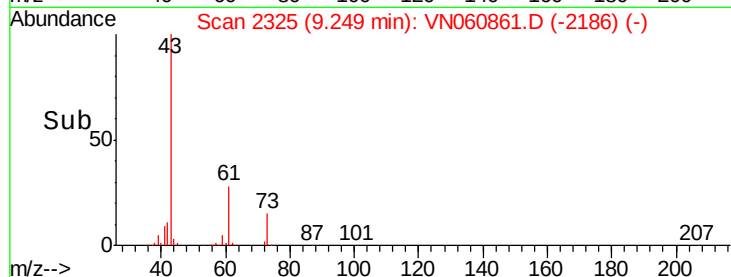
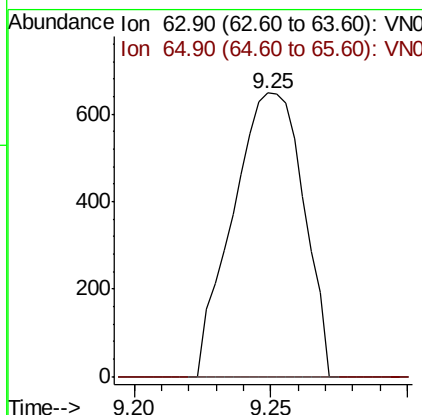
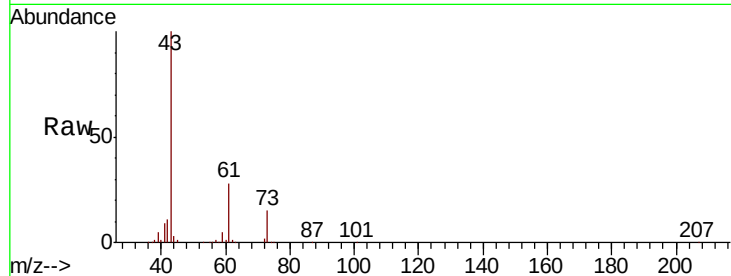




#45
 1,2-Dichloropropane
 Concen: 0.427 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060861.D
 Acq: 6 Apr 2020 18:58

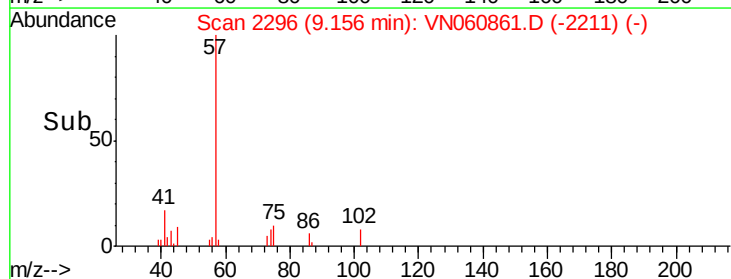
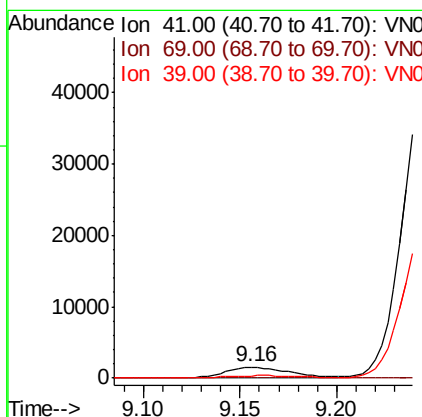
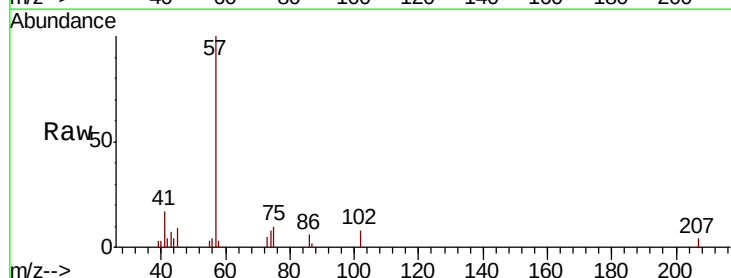
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-67-66-COMP

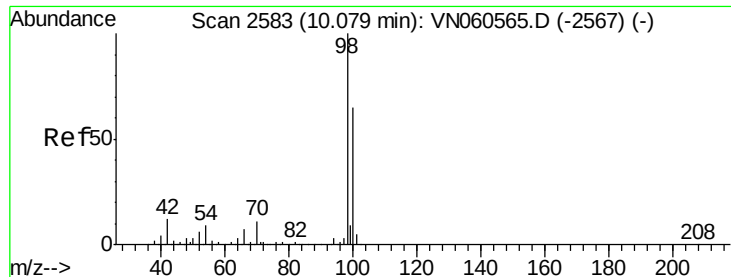
Tot Ion: 63 Resp: 1163
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.283 ug/l
 RT: 9.16 min Scan# 2296
 Delta R.T. -0.03 min
 Lab File: VN060861.D
 Acq: 6 Apr 2020 18:58

Tgt Ion: 41 Resp: 3482
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#

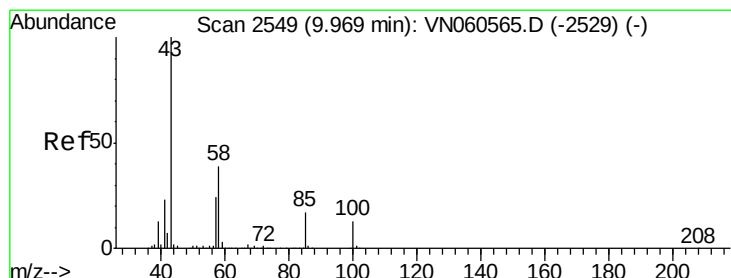
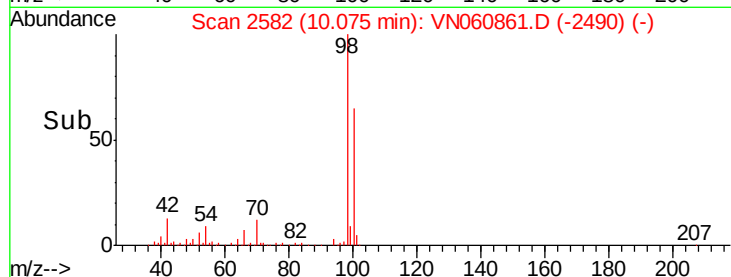
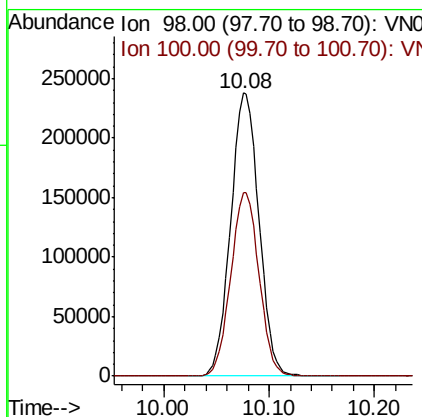
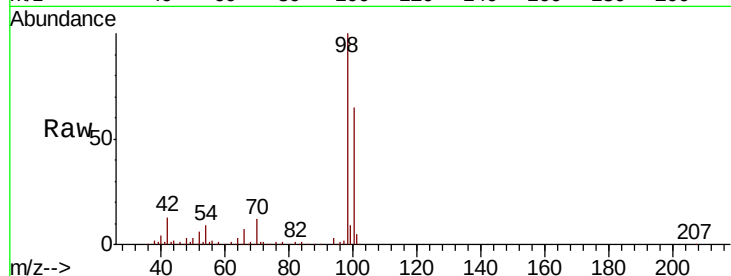




#50
Toluene-d8
Concen: 50.618 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

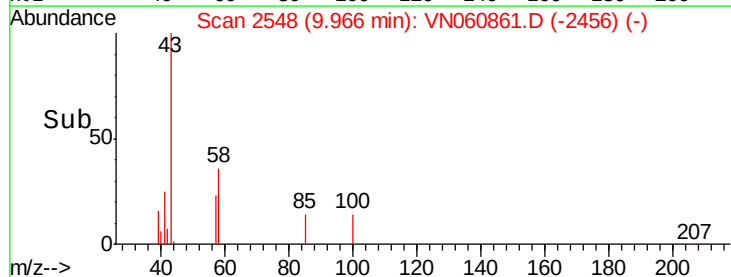
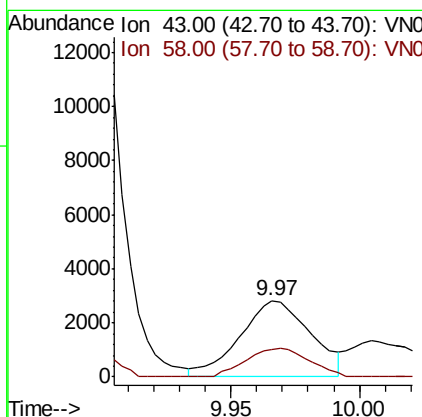
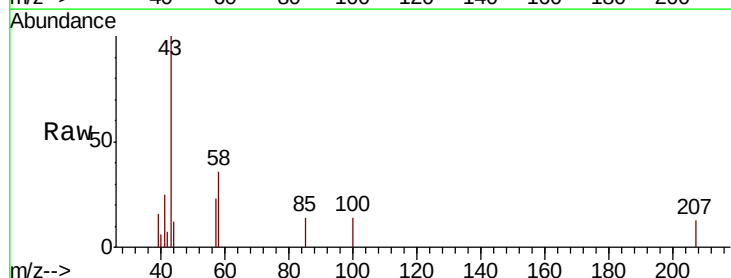
Instrument :
MSVOA_N
ClientSampleId :
TP-67-66-COMP

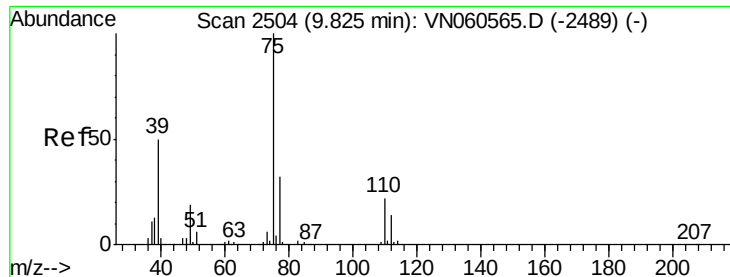
Tot Ion: 98 Resp: 441672
Ion Ratio Lower Upper
98 100
100 64.7 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 1.554 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

Tgt Ion: 43 Resp: 5392
Ion Ratio Lower Upper
43 100
58 33.6 30.8 46.2





#54

cis-1,3-Dichloropropene

Concen: 5.728 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

Instrument :

MSVOA_N

ClientSampleId :

TP-67-66-COMP

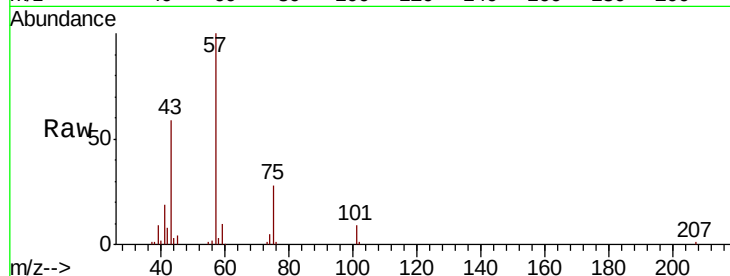
Tot Ion: 75 Resp: 24708

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

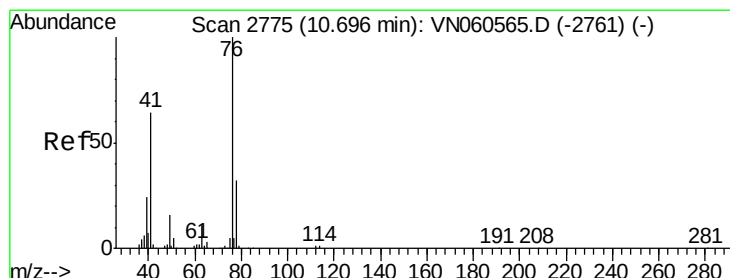
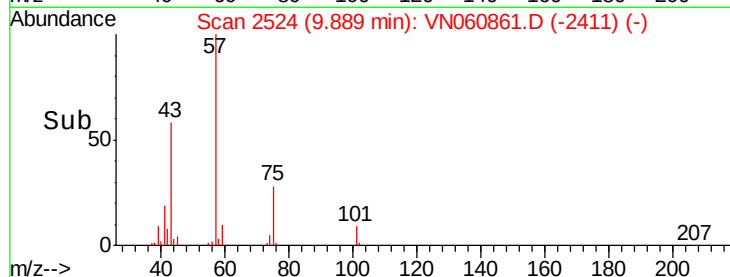
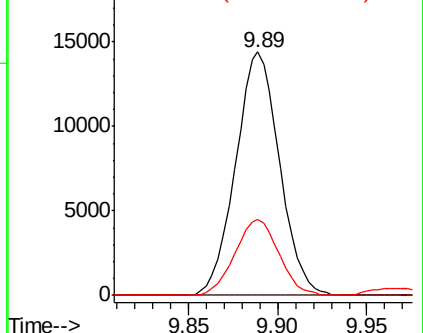
39 31.1 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060861.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060861.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060861.D (-2411) (-)



#57

1,3-Dichloropropane

Concen: 0.882 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060861.D

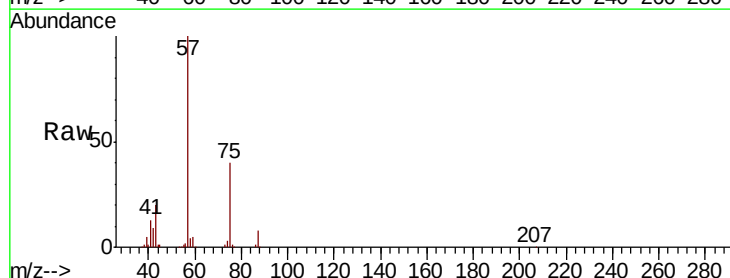
Acq: 6 Apr 2020 18:58

Tgt Ion: 76 Resp: 3671

Ion Ratio Lower Upper

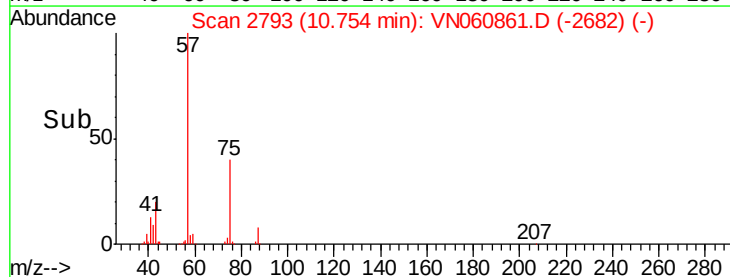
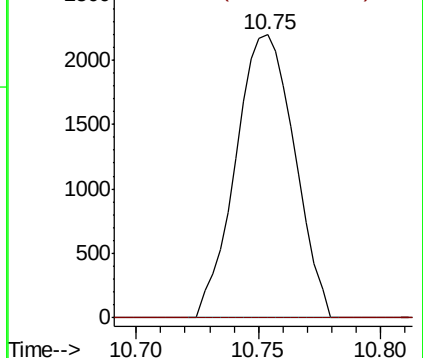
76 100

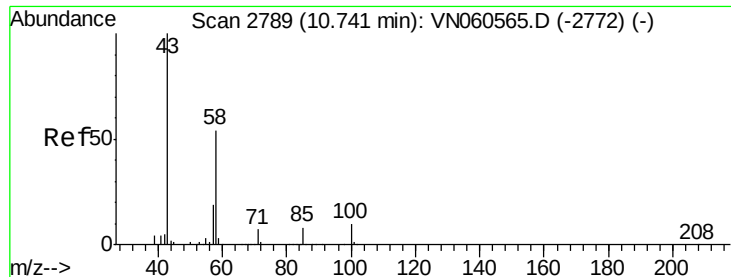
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060861.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060861.D (-2682) (-)

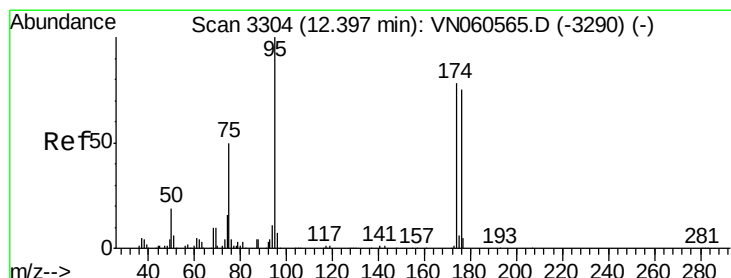
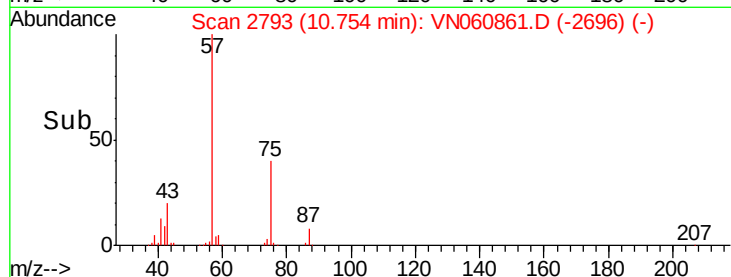
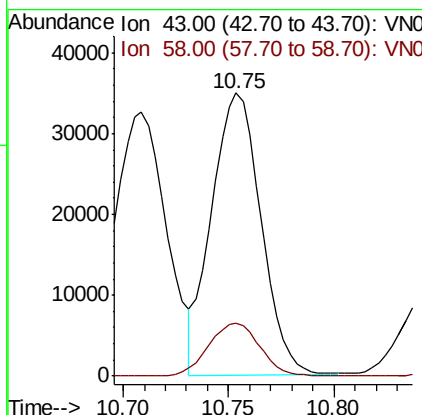
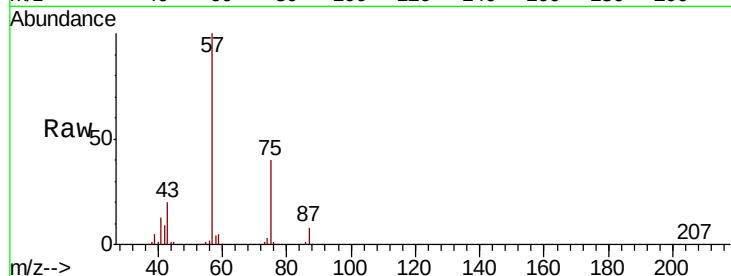




#59
2-Hexanone
Concen: 22.767 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

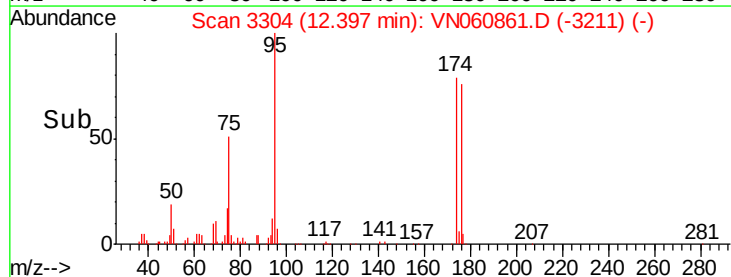
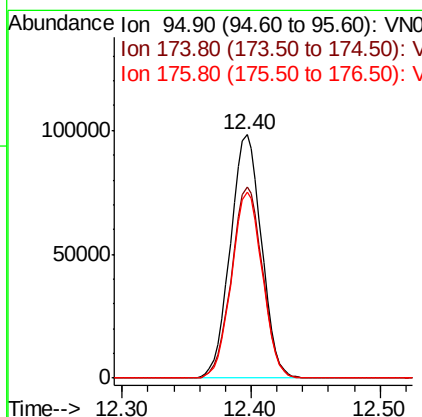
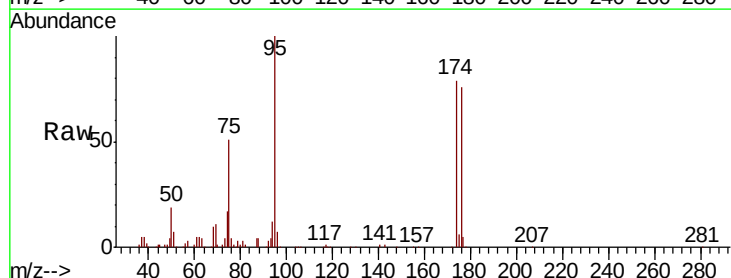
Instrument :
MSVOA_N
ClientSampleId :
TP-67-66-COMP

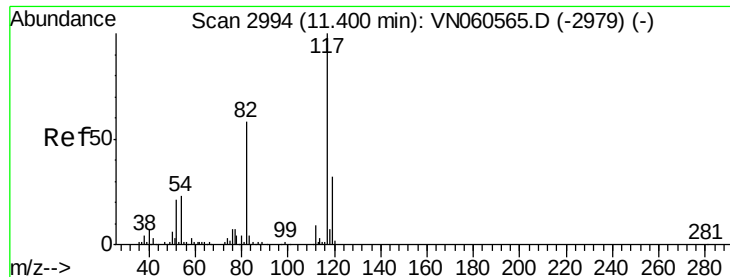
Tot Ion: 43 Resp: 56891
Ion Ratio Lower Upper
43 100
58 19.3 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.506 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

Tgt Ion: 95 Resp: 164706
Ion Ratio Lower Upper
95 100
174 78.6 0.0 157.6
176 75.8 0.0 150.6

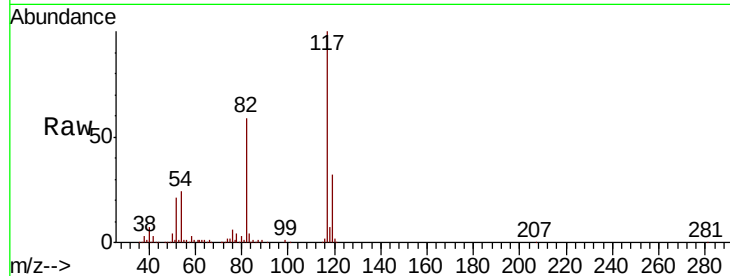




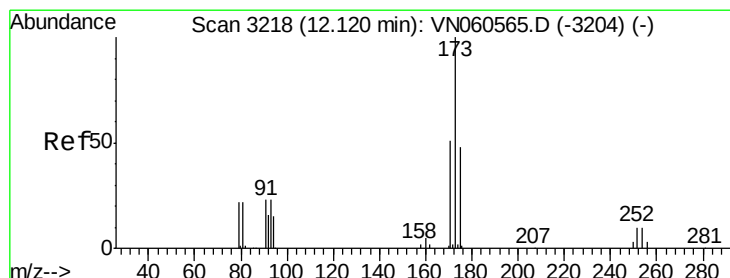
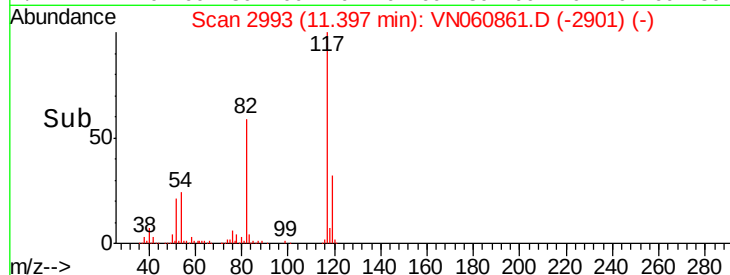
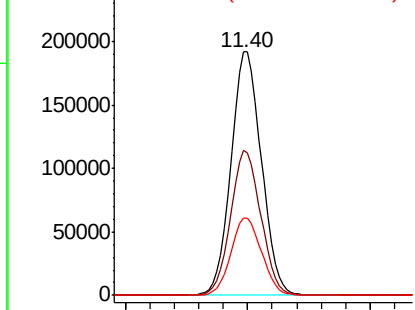
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. -0.00 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

Instrument :
MSVOA_N
ClientSampleId :
TP-67-66-COMP

Tot Ion:117 Resp: 333122
Ion Ratio Lower Upper
117 100
82 59.3 46.7 70.1
119 31.8 25.5 38.3

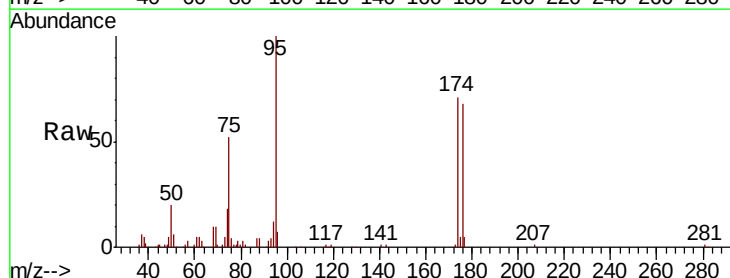


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

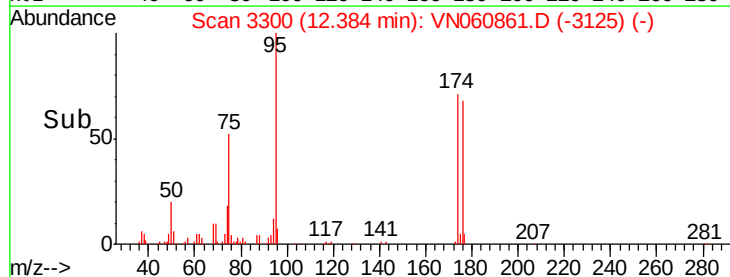
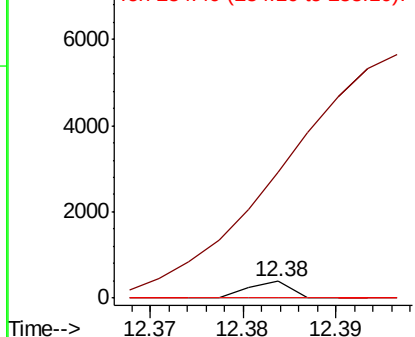


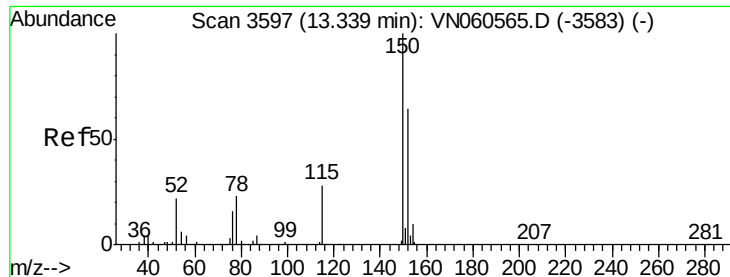
#71
Bromoform
Concen: 1.740 ug/l
RT: 12.38 min Scan# 3300
Delta R.T. 0.26 min
Lab File: VN060861.D
Acq: 6 Apr 2020 18:58

Tgt Ion:173 Resp: 123
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
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# 3597

Delta R.T. -0.00 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

Instrument :

MSVOA_N

ClientSampleId :

TP-67-66-COMP

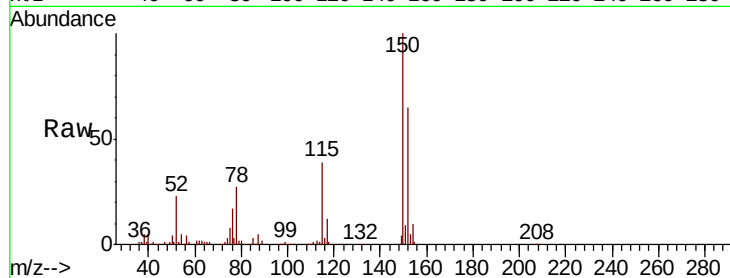
Tot Ion:152 Resp: 153403

Ion Ratio Lower Upper

152 100

115 59.8 30.2 90.6

150 156.7 0.0 350.2

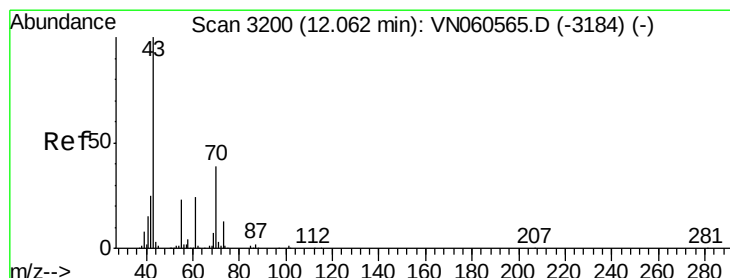
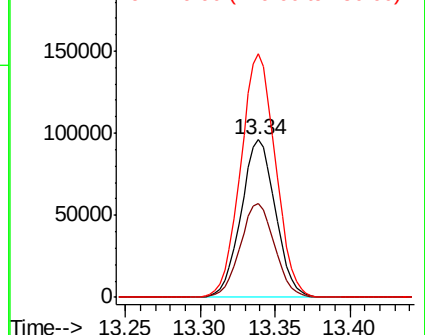
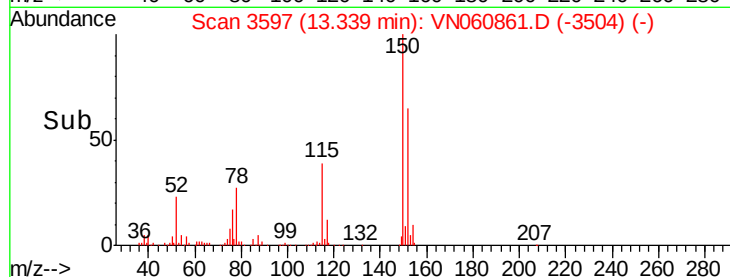


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.557 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

Tgt Ion: 43 Resp: 2961

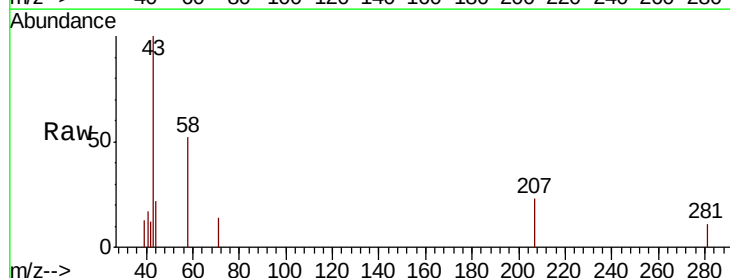
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#



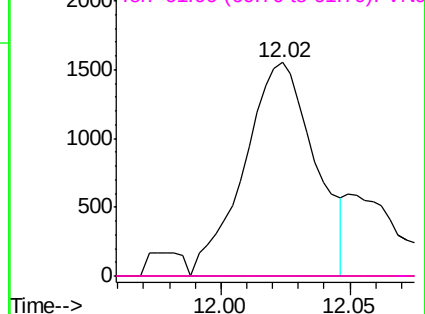
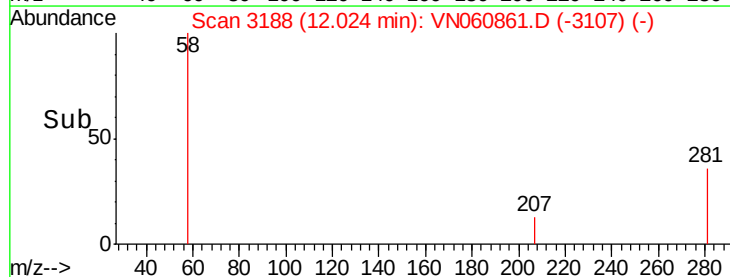
Abundance

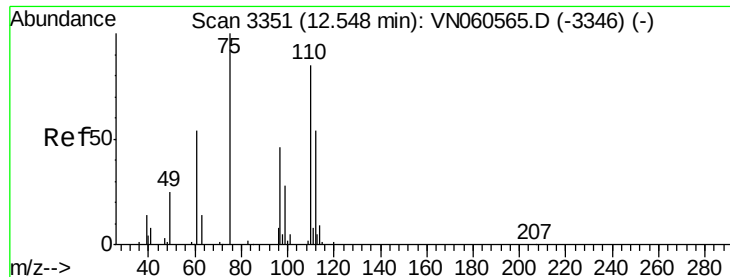
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.231 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

Instrument :

MSVOA_N

ClientSampleId :

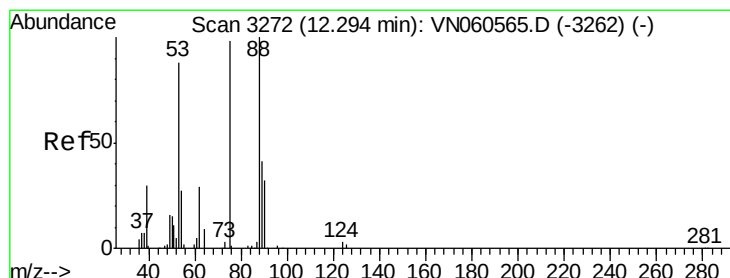
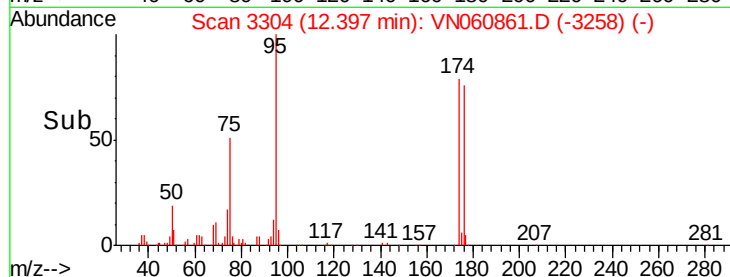
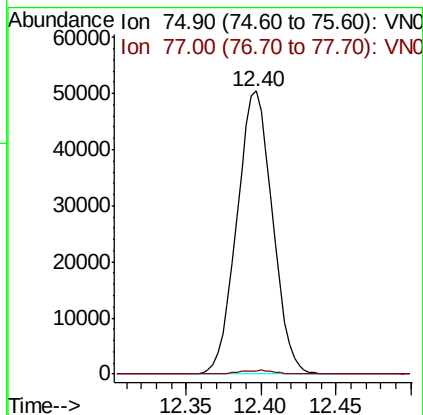
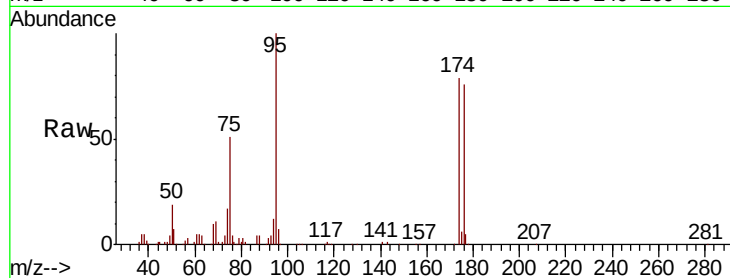
TP-67-66-COMP

Tot Ion: 75 Resp: 83518

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.801 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060861.D

Acq: 6 Apr 2020 18:58

Tgt Ion: 75 Resp: 83518

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

