

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041420\
 Data File : VN060946.D
 Acq On : 14 Apr 2020 20:01
 Operator : JC/MD
 Sample : L2230-32
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-20

Quant Time: Apr 15 07:50:01 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	149454	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	255509	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	241703	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	110530	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	99897	48.69	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.38%	
35) Dibromofluoromethane	7.56	113	75525	48.88	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.76%	
50) Toluene-d8	10.08	98	316693	50.18	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.40	95	120408	52.06	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	104.12%	

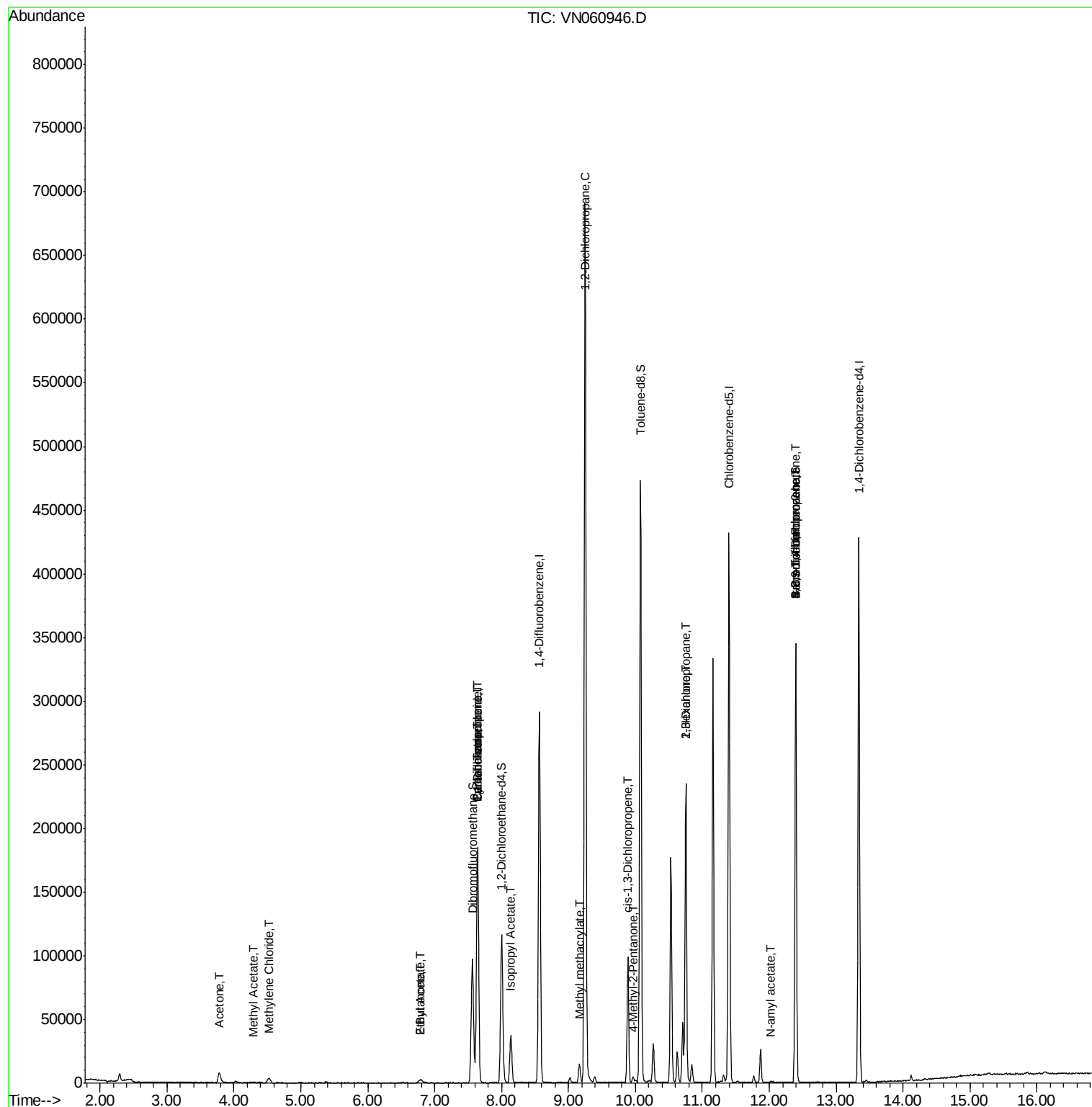
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	15539	21.382	ug/l	97
18) Methyl Acetate	4.30	43	1527	0.746	ug/l #	54
20) Methylene Chloride	4.52	84	2934	1.641	ug/l	94
25) 2-Butanone	6.80	43	4154	3.532	ug/l	100
31) Cyclohexane	7.64	56	3072	0.930	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11766	4.756	ug/l #	49
37) Ethyl Acetate	6.80	43	4154	1.554	ug/l #	70
38) Carbon Tetrachloride	7.64	117	14354	6.473	ug/l #	15
43) Isopropyl Acetate	8.14	43	44198	10.025	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	726	0.368	ug/l #	43
48) Methyl methacrylate	9.16	41	2234	1.138	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3708	1.478	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	17226	5.521	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	2324	0.772	ug/l #	42
59) 2-Hexanone	10.75	43	34303	18.981	ug/l #	53
71) Bromoform	12.40	173	760	2.190	ug/l #	1
74) N-amyl acetate	12.02	43	1772	0.462	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	60960	25.560	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	60960	65.645	ug/l #	13

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

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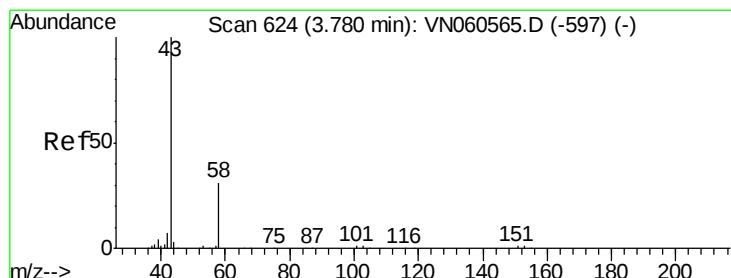
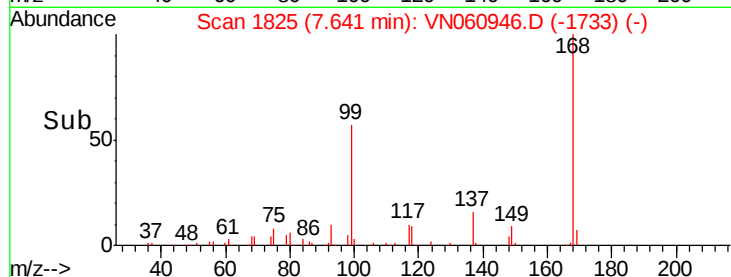
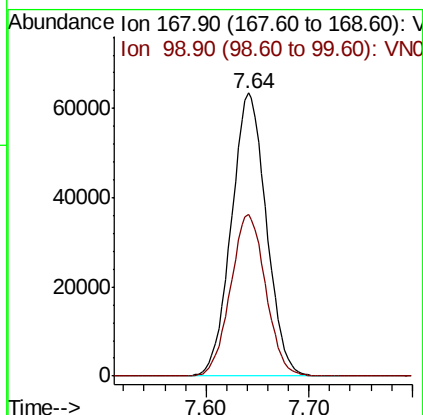
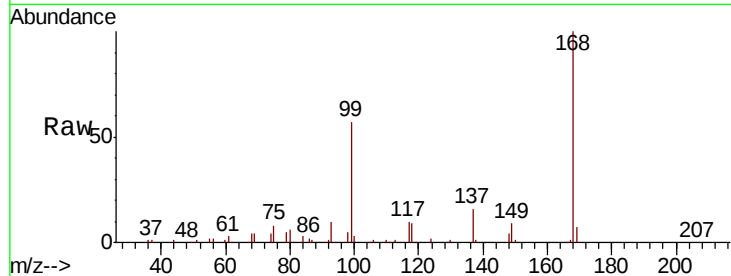




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.00 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

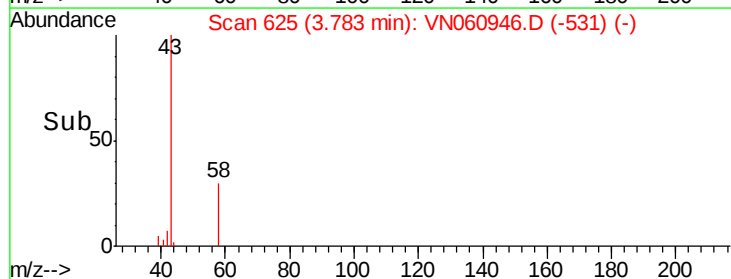
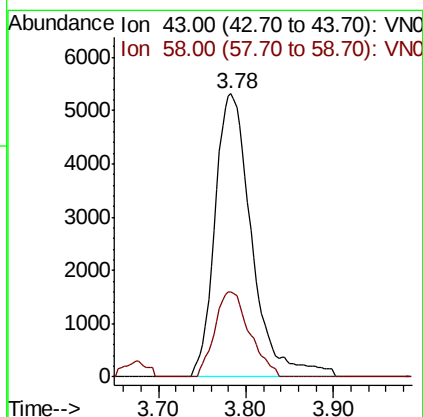
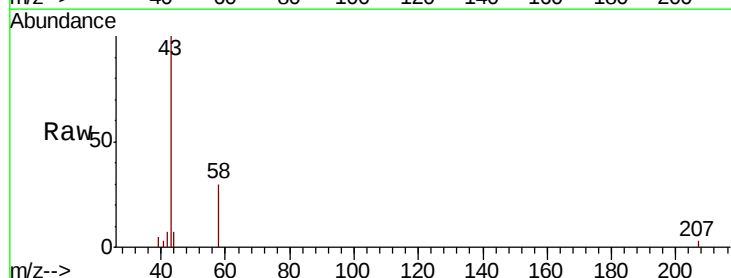
Instrument :
MSVOA_N
ClientSampled :
TP-20

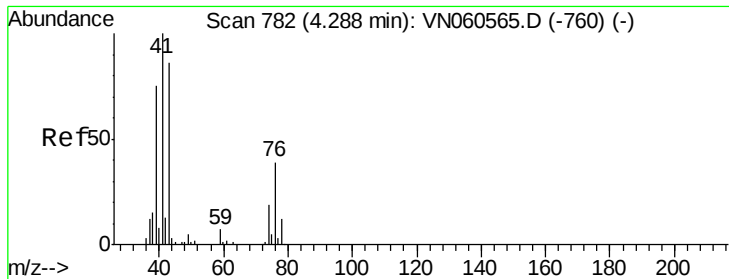
Tot Ion:168 Resp: 149454
Ion Ratio Lower Upper
168 100
99 57.0 44.0 66.0



#16
Acetone
Concen: 21.382 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.00 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

Tgt Ion: 43 Resp: 15539
Ion Ratio Lower Upper
43 100
58 30.0 25.1 37.7

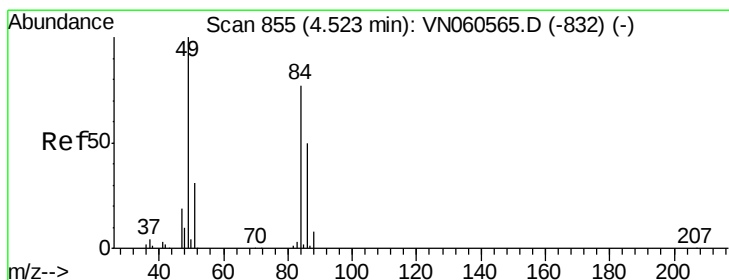
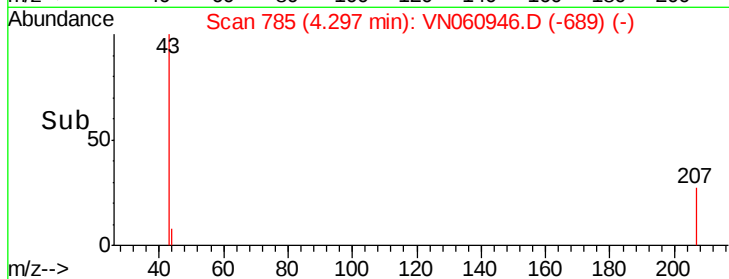
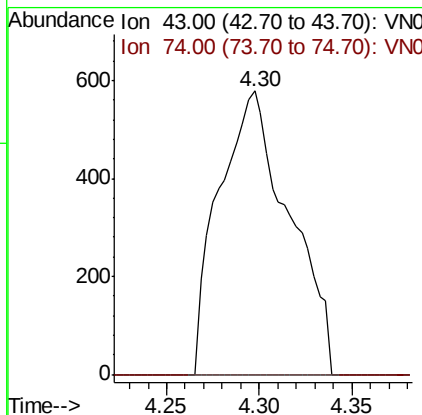
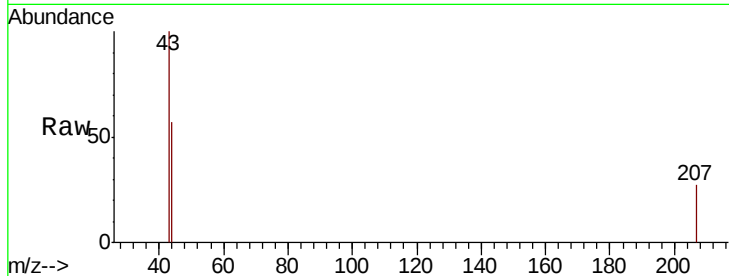




#18
Methyl Acetate
Concen: 0.746 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

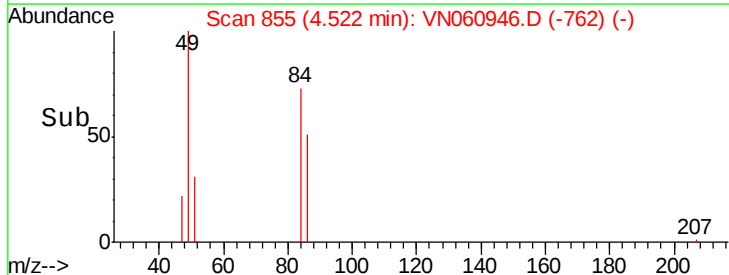
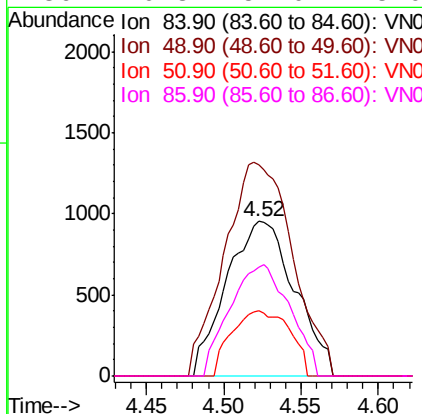
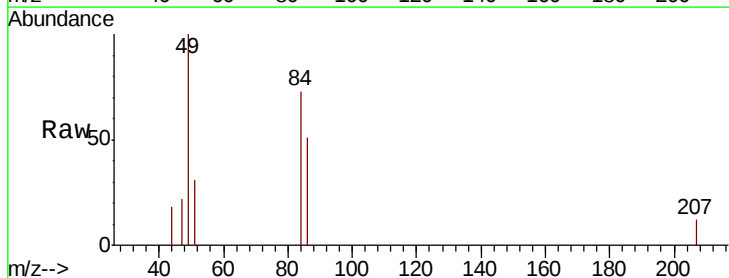
Instrument :
MSVOA_N
ClientSampled :
TP-20

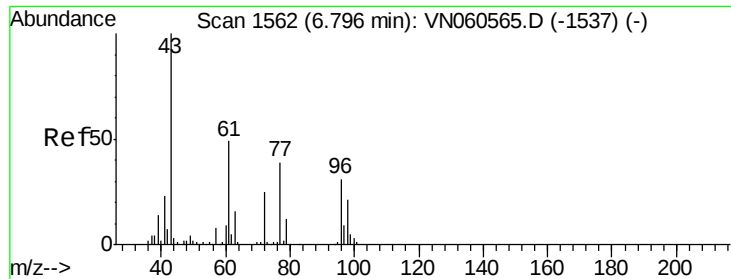
Tot Ion: 43 Resp: 1527
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 1.641 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

Tgt Ion: 84 Resp: 2934
Ion Ratio Lower Upper
84 100
49 137.0 103.3 154.9
51 42.4 31.6 47.4
86 70.3 52.0 78.0

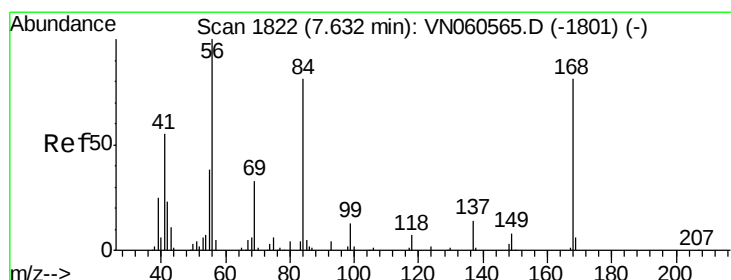
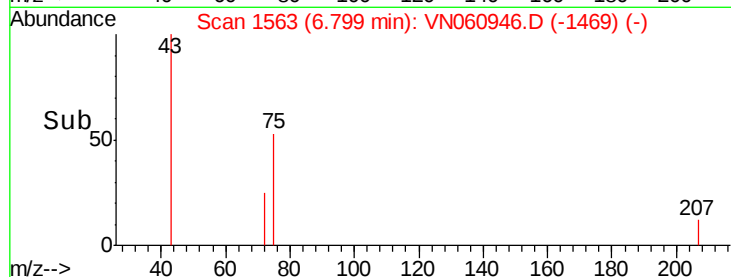
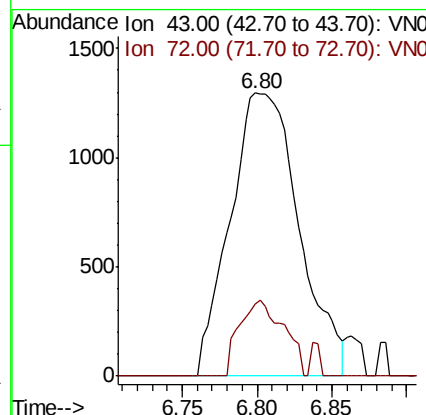
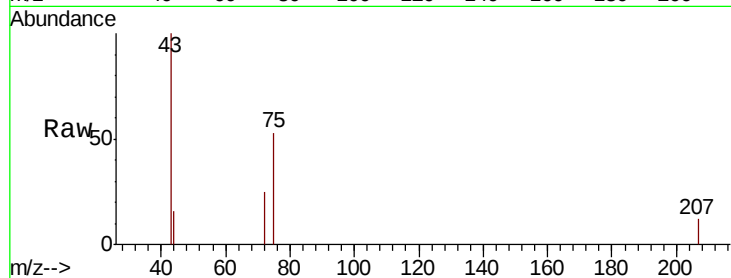




#25
2-Butanone
Concen: 3.532 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

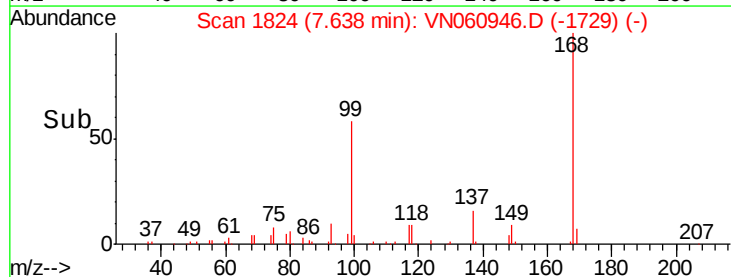
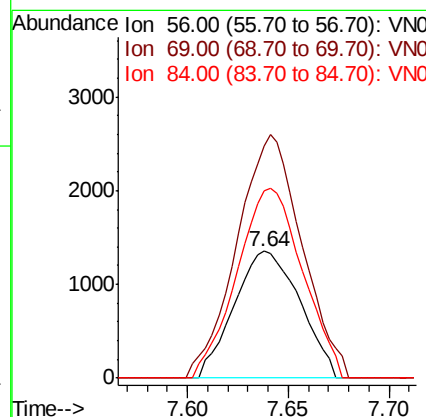
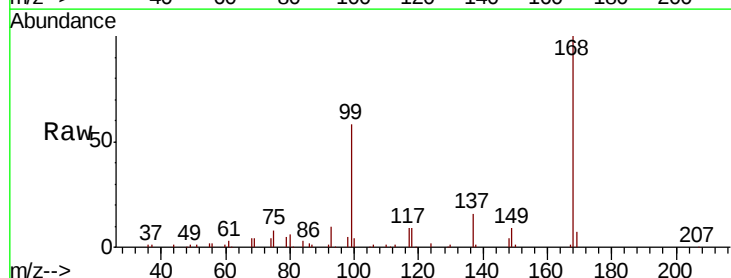
Instrument :
MSVOA_N
ClientSampled :
TP-20

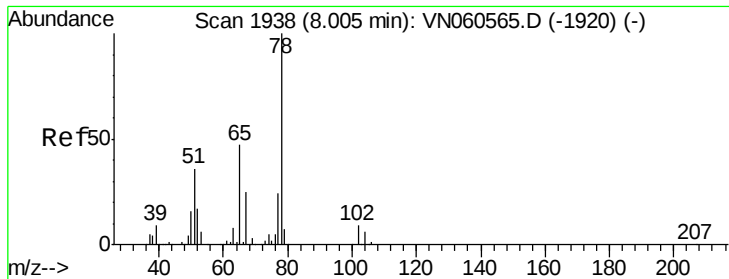
Tot Ion: 43 Resp: 4154
Ion Ratio Lower Upper
43 100
72 25.3 20.4 30.6



#31
Cyclohexane
Concen: 0.930 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

Tgt Ion: 56 Resp: 3072
Ion Ratio Lower Upper
56 100
69 171.1 26.6 40.0#
84 147.8 64.3 96.5#

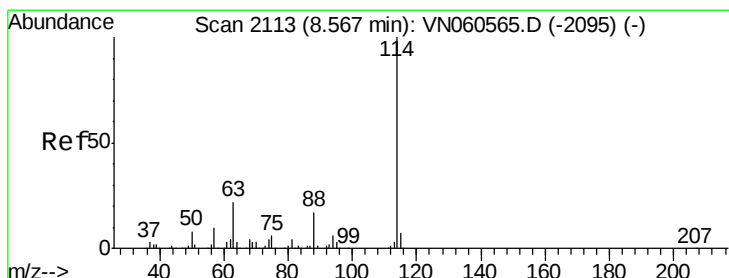
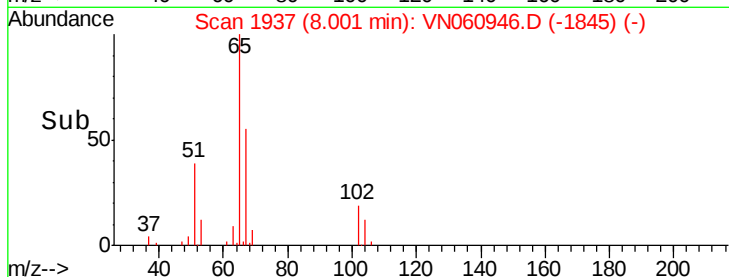
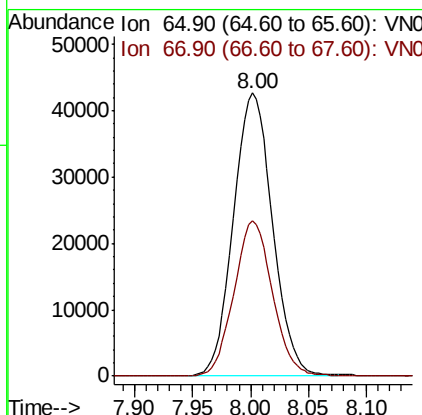
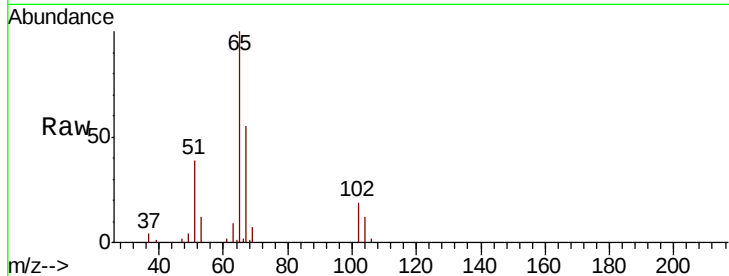




#33
 1,2-Dichloroethane-d4
 Concen: 48.691 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060946.D
 Acq: 14 Apr 2020 20:01

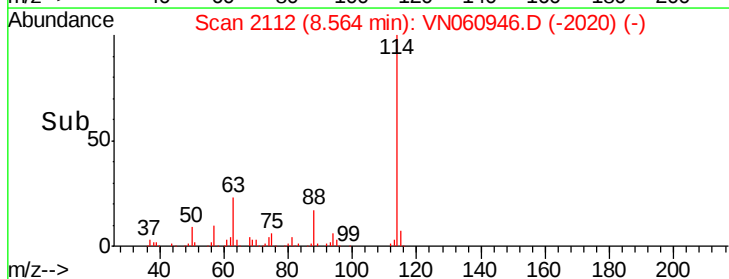
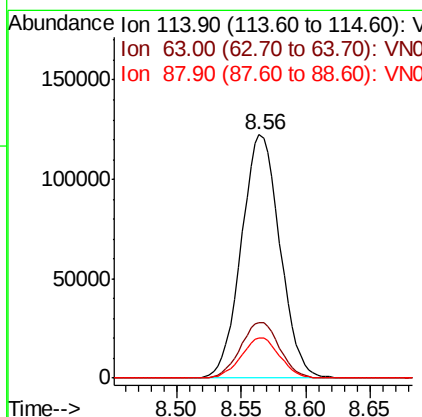
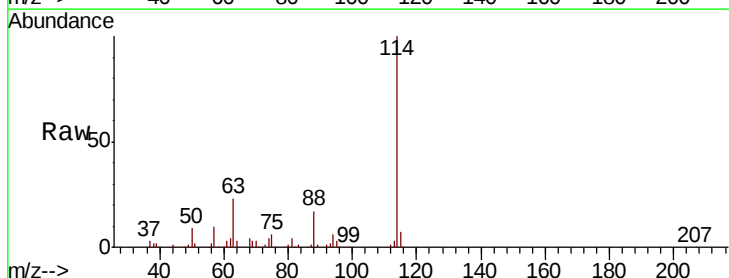
Instrument :
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 TP-20

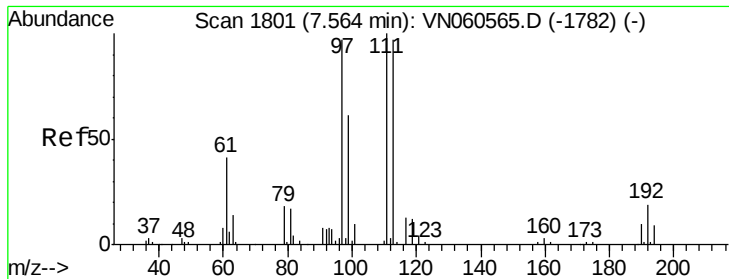
Tot Ion: 65 Resp: 99897
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060946.D
 Acq: 14 Apr 2020 20:01

Tgt Ion: 114 Resp: 255509
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 43.8
 88 16.6 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.884 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

TP-20

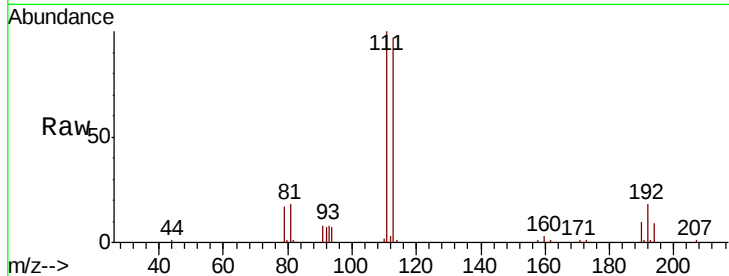
Tot Ion:113 Resp: 75525

Ion Ratio Lower Upper

113 100

111 102.5 82.9 124.3

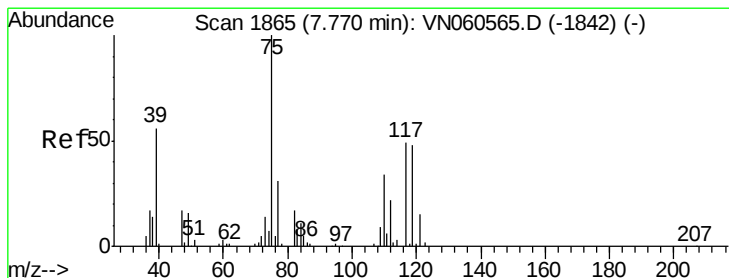
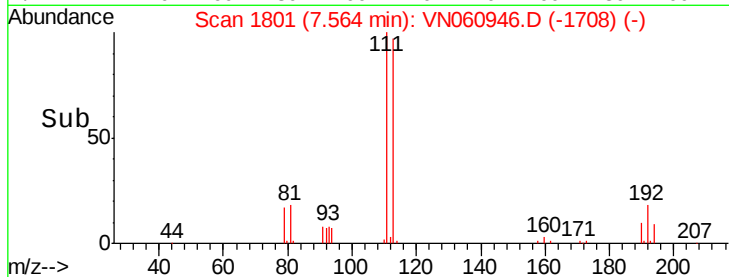
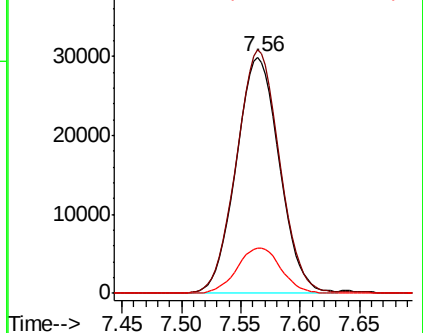
192 19.4 15.8 23.8



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: 4.756 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

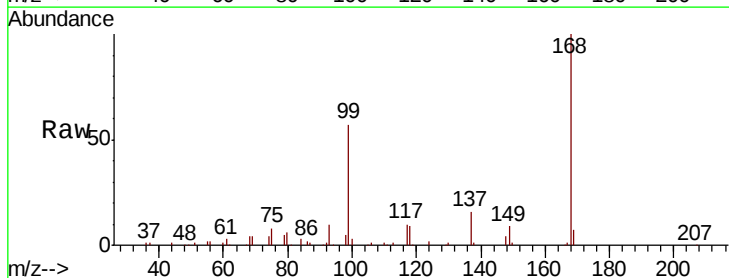
Tgt Ion: 75 Resp: 11766

Ion Ratio Lower Upper

75 100

110 7.5 16.9 50.6#

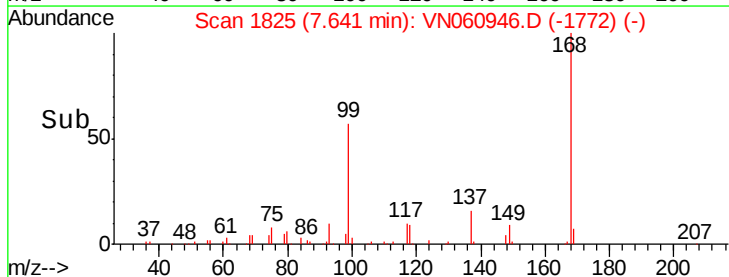
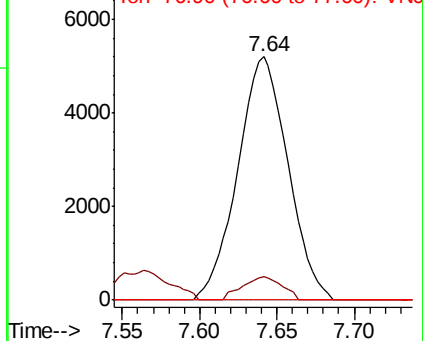
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0

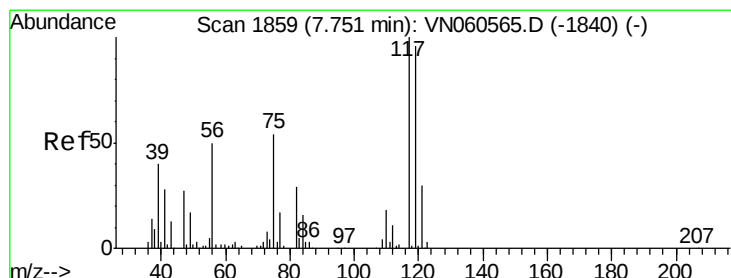
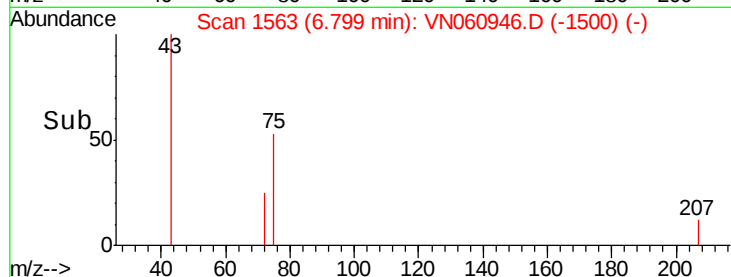
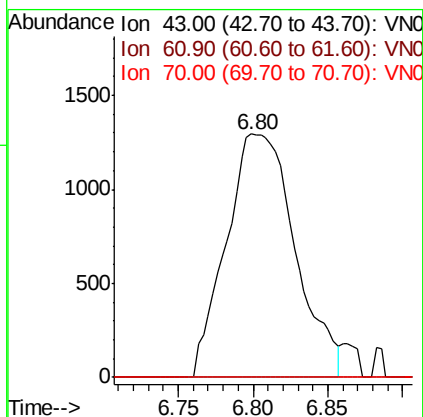
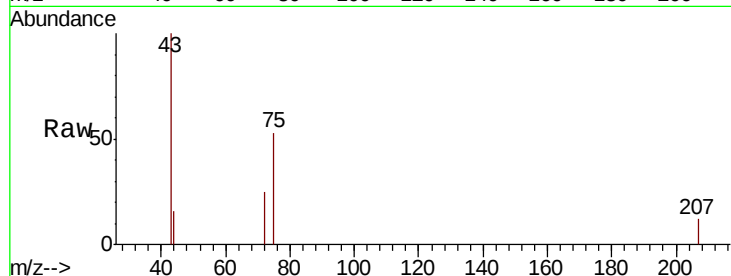




#37
Ethyl Acetate
Concen: 1.554 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

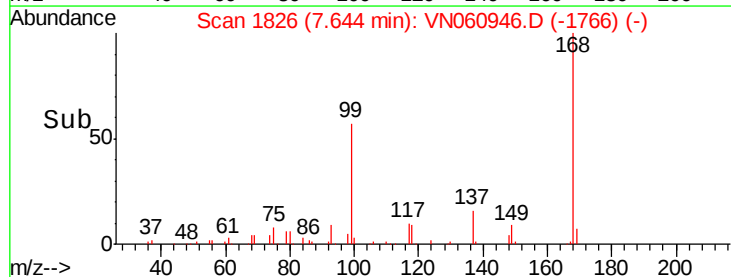
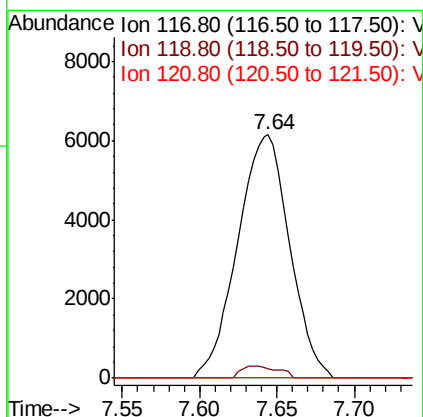
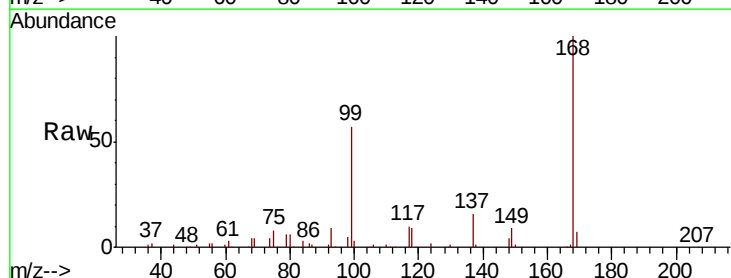
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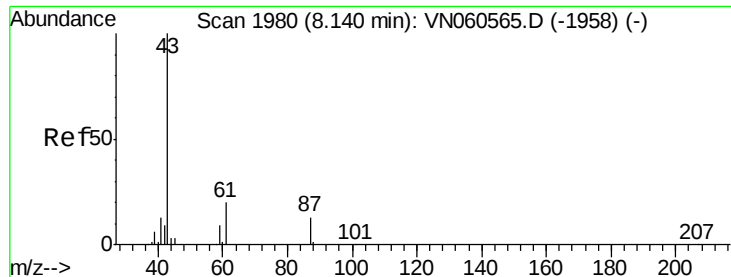
Tot Ion: 43 Resp: 4154
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.473 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

Tgt Ion: 117 Resp: 14354
Ion Ratio Lower Upper
117 100
119 3.7 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 10.025 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampled :

TP-20

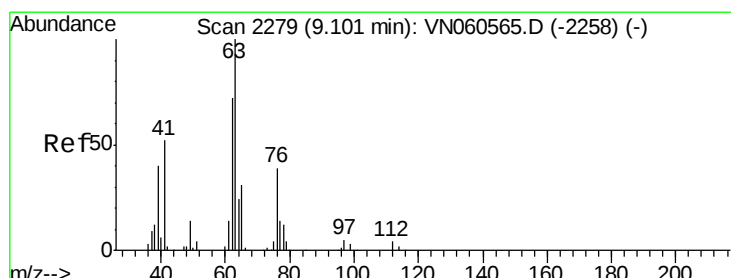
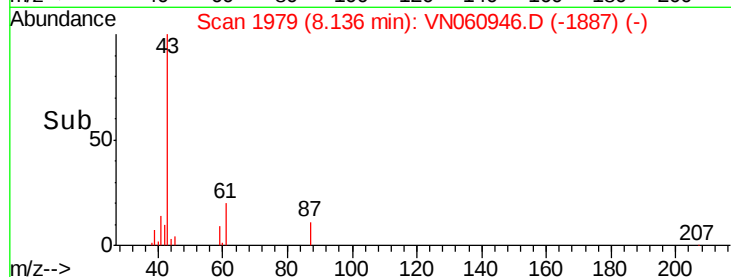
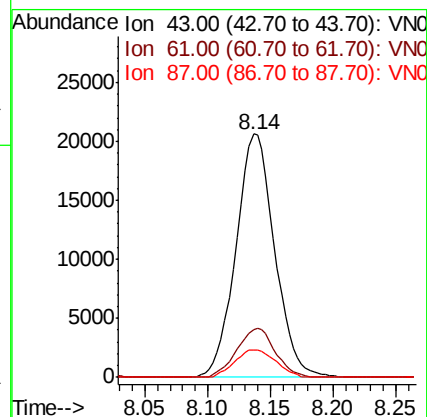
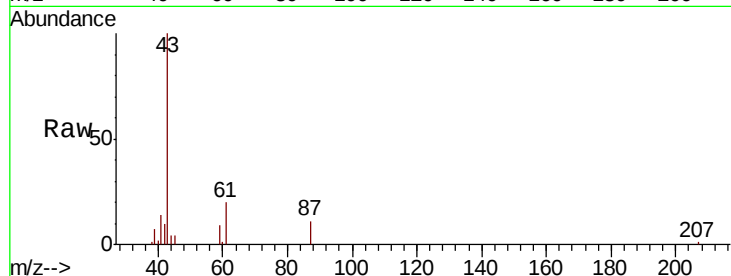
Tot Ion: 43 Resp: 44198

Ion Ratio Lower Upper

43 100

61 19.9 20.7 31.1#

87 11.9 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.368 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060946.D

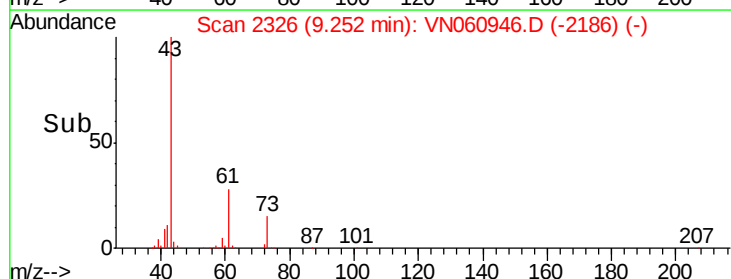
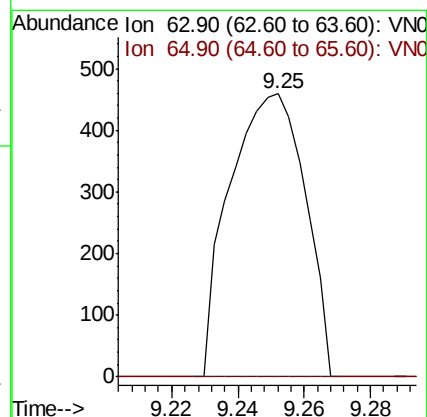
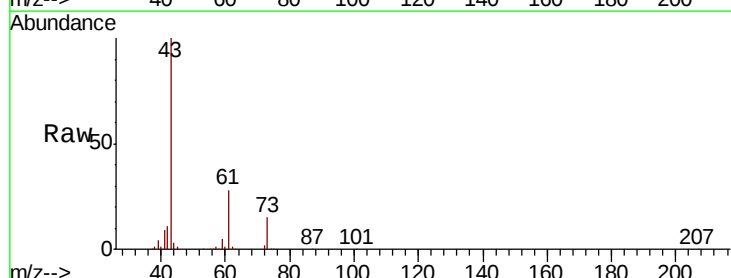
Acq: 14 Apr 2020 20:01

Tgt Ion: 63 Resp: 726

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

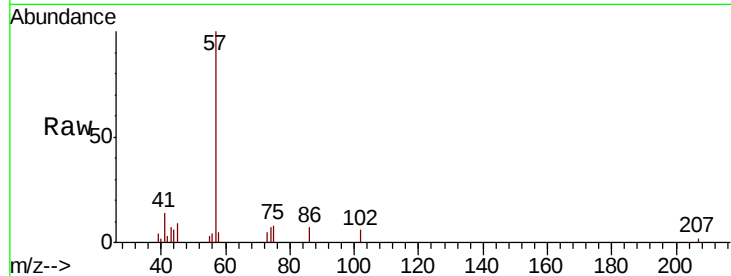




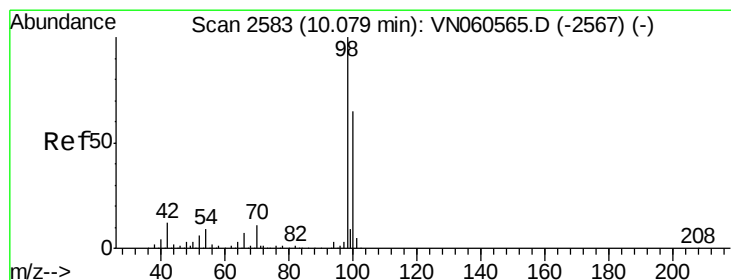
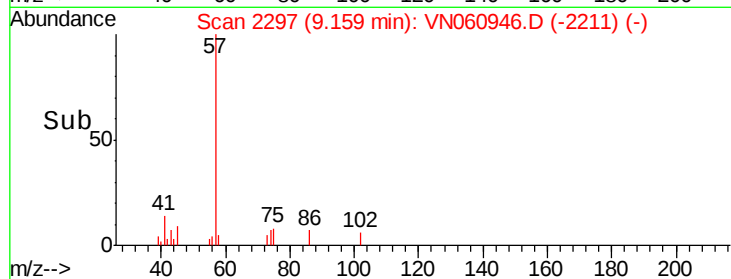
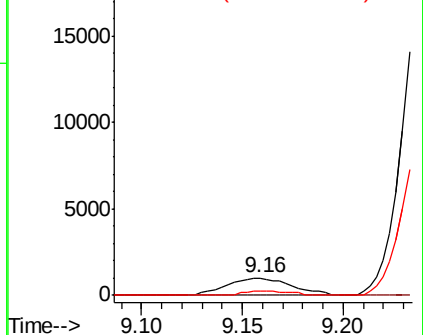
#48
Methvl methacrylate
Concen: 1.138 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

Instrument :
MSVOA_N
ClientSampleId :
TP-20

Tot Ion: 41 Resp: 2234
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

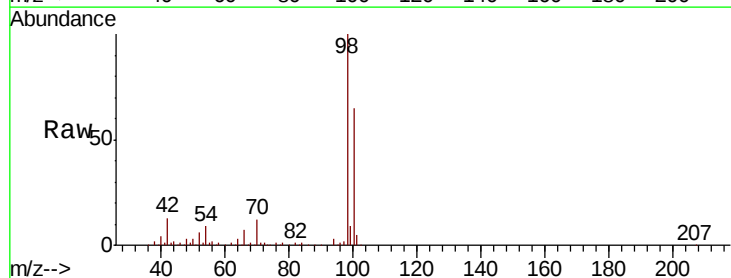


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

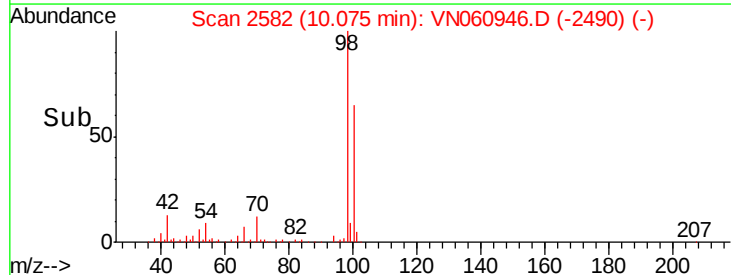
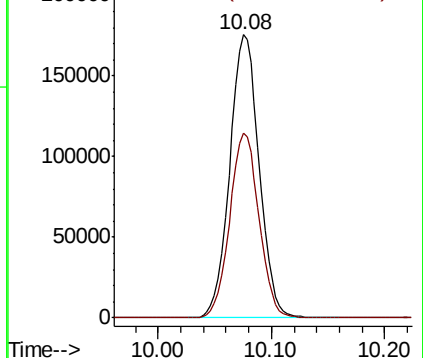


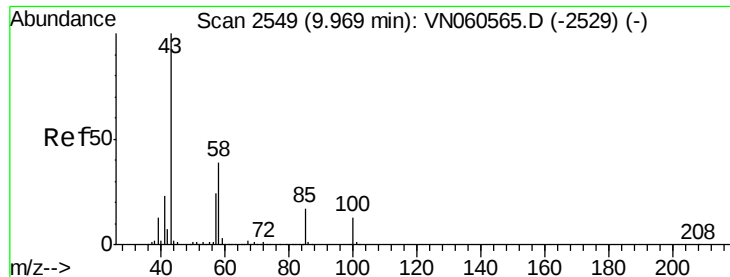
#50
Toluene-d8
Concen: 50.184 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060946.D
Acq: 14 Apr 2020 20:01

Tgt Ion: 98 Resp: 316693
Ion Ratio Lower Upper
98 100
100 65.1 51.8 77.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.478 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampled :

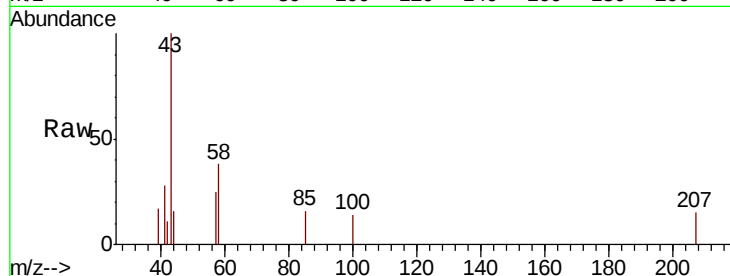
TP-20

Tot Ion: 43 Resp: 3708

Ion Ratio Lower Upper

43 100

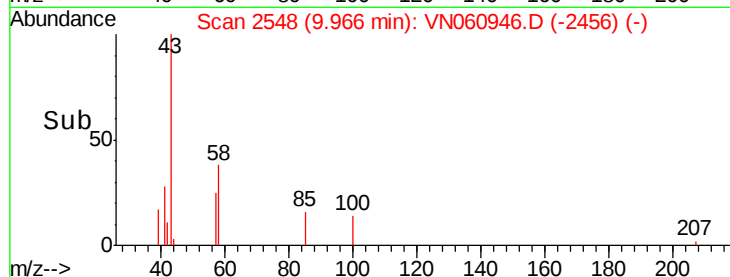
58 33.3 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-2529) (-)

Ion 58.00 (57.70 to 58.70): VN060565.D (-2529) (-)

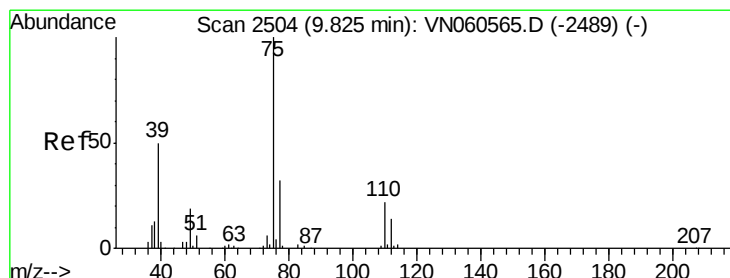
Time-->



Abundance Ion 43.00 (42.70 to 43.70): VN060946.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060946.D (-2456) (-)

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.521 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

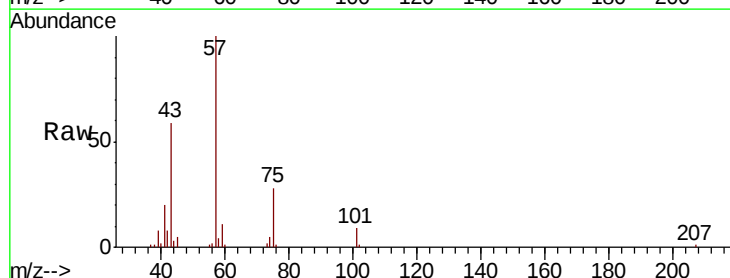
Tgt Ion: 75 Resp: 17226

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 28.2 40.2 60.4#

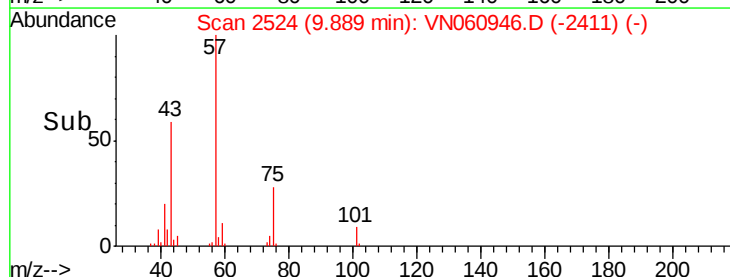


Abundance Ion 74.90 (74.60 to 75.60): VN060565.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060565.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060565.D (-2489) (-)

Time-->



Abundance Ion 74.90 (74.60 to 75.60): VN060946.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060946.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060946.D (-2411) (-)

Time-->



#57

1,3-Dichloropropane

Concen: 0.772 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.05 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampled :

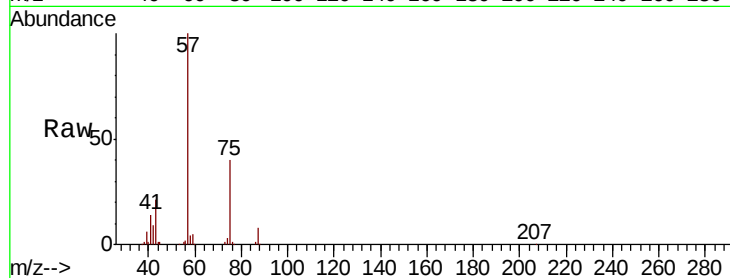
TP-20

Tot Ion: 76 Resp: 2324

Ion Ratio Lower Upper

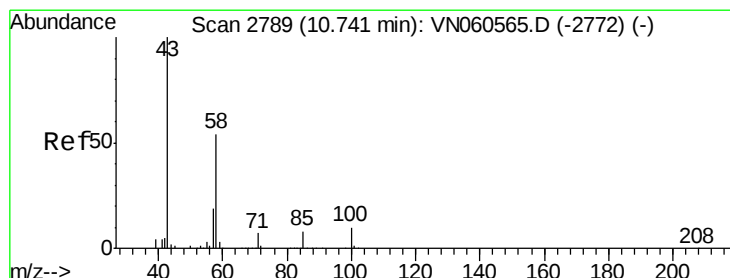
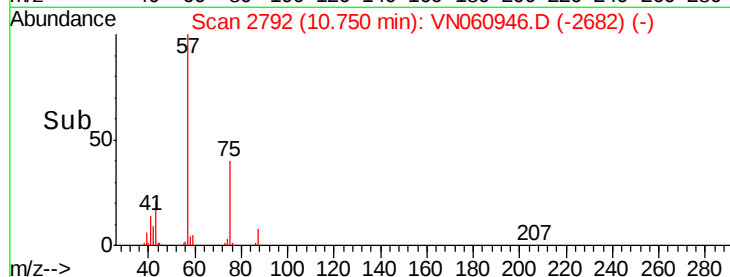
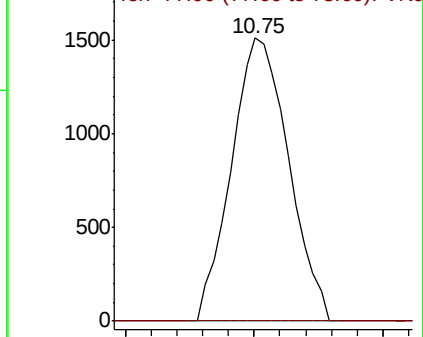
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 18.981 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060946.D

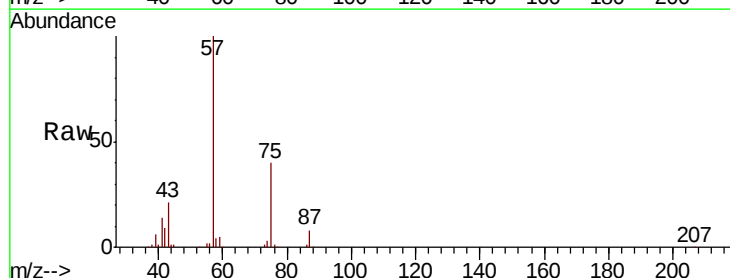
Acq: 14 Apr 2020 20:01

Tgt Ion: 43 Resp: 34303

Ion Ratio Lower Upper

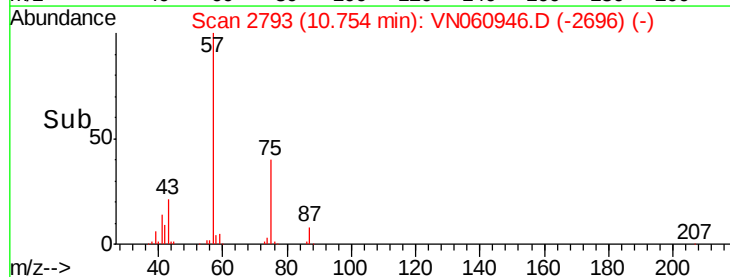
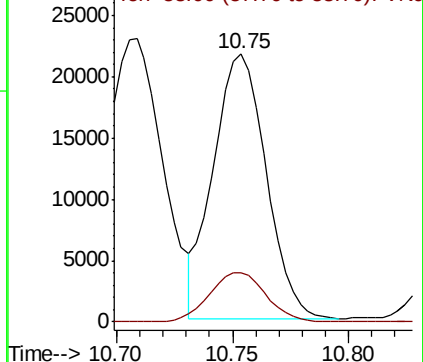
43 100

58 19.9 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.062 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

TP-20

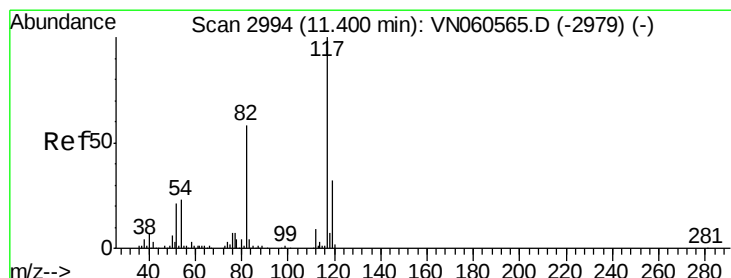
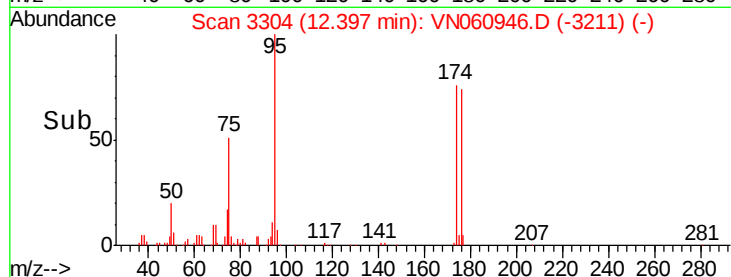
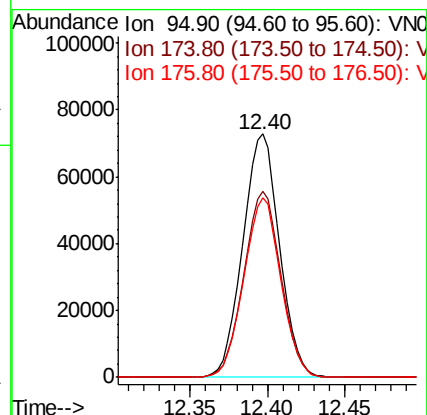
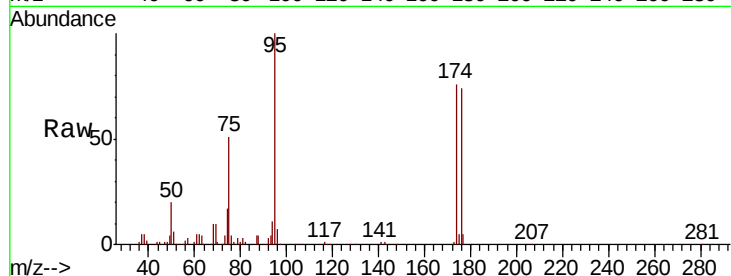
Tot Ion: 95 Resp: 120408

Ion Ratio Lower Upper

95 100

174 76.9 0.0 157.6

176 74.3 0.0 150.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

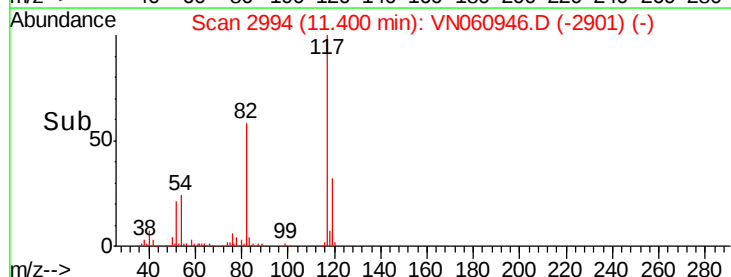
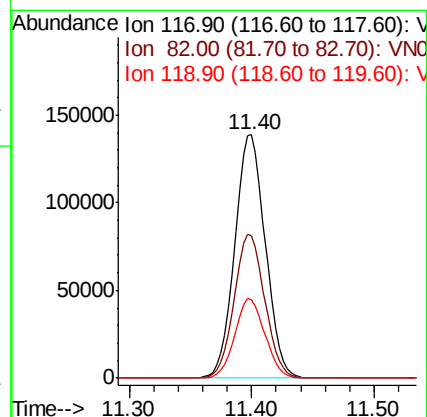
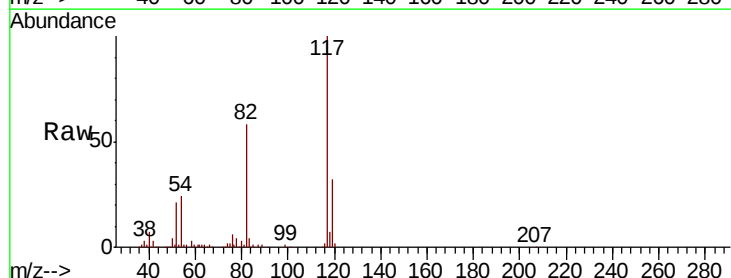
Tgt Ion: 117 Resp: 241703

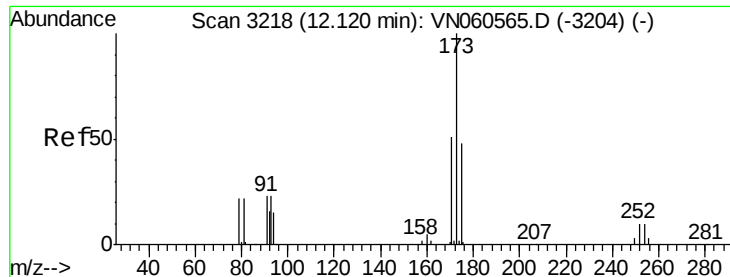
Ion Ratio Lower Upper

117 100

82 58.5 46.7 70.1

119 32.4 25.5 38.3





#71

Bromoform

Concen: 2.190 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampled :

TP-20

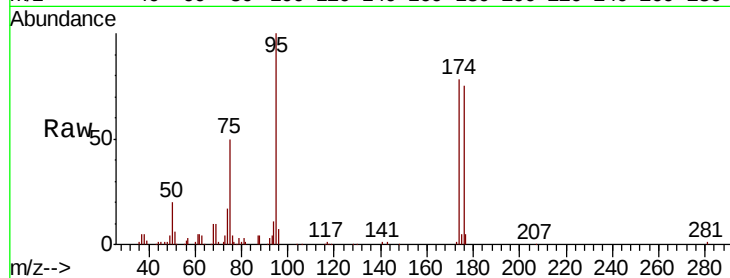
Tot Ion:173 Resp: 760

Ion Ratio Lower Upper

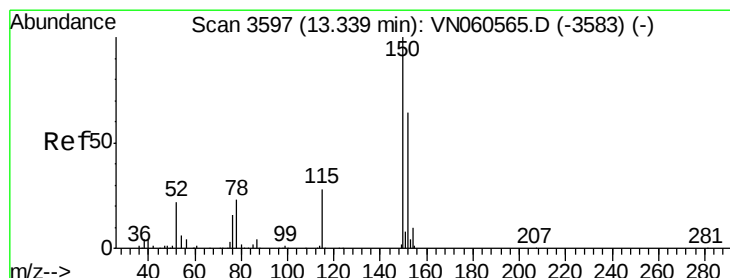
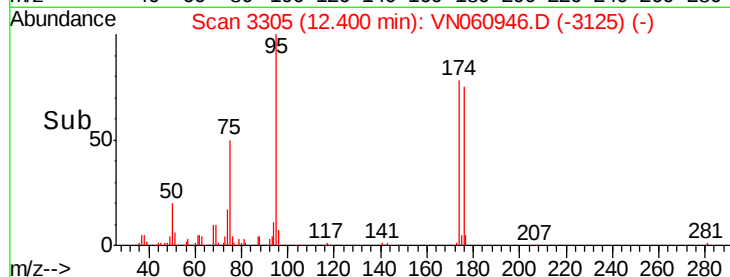
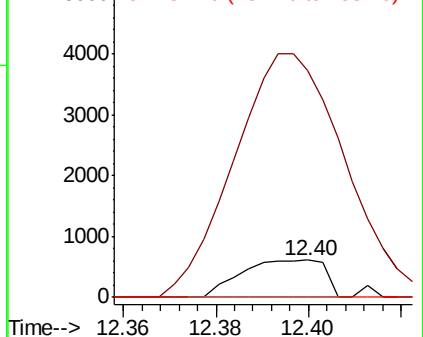
173 100

175 751.2 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: VN060946.D

Acq: 14 Apr 2020 20:01

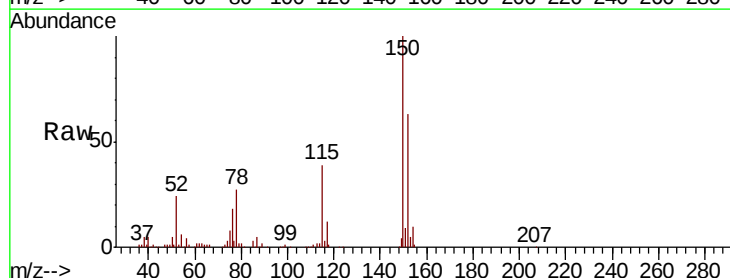
Tgt Ion:152 Resp: 110530

Ion Ratio Lower Upper

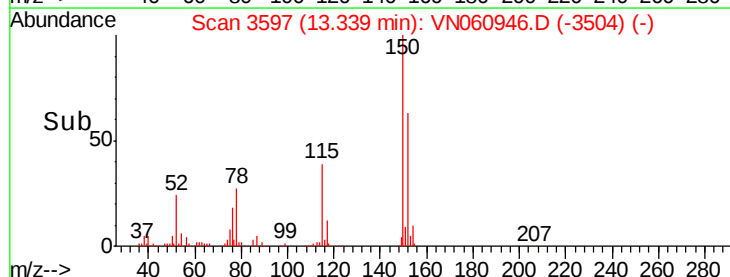
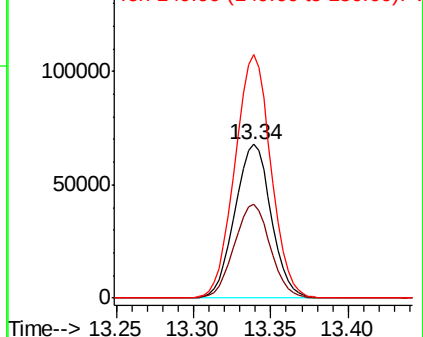
152 100

115 60.6 30.2 90.6

150 157.4 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-amvl acetate

Concen: 0.462 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

TP-20

Tot Ion: 43 Resp: 1772

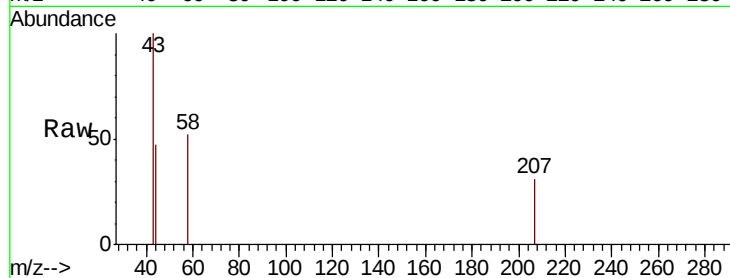
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

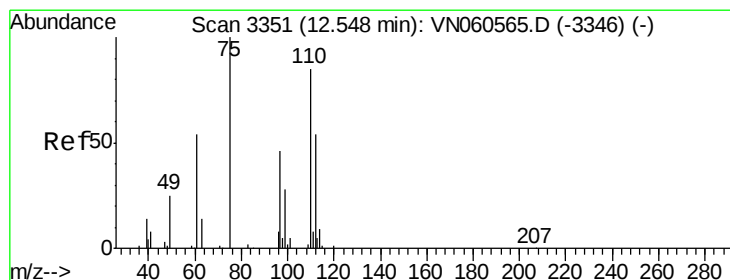
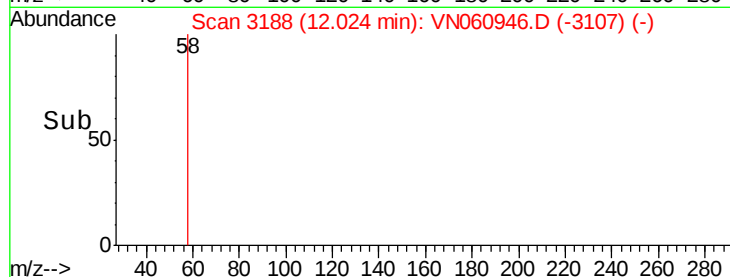
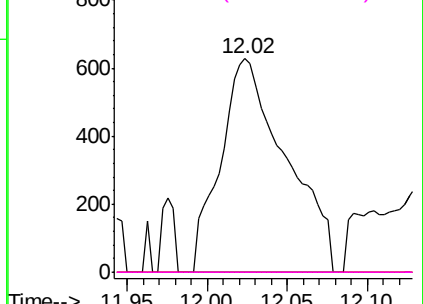


Abundance Ion 43.00 (42.70 to 43.70): VN060565.D (-3184) (-)

Ion 70.00 (69.70 to 70.70): VN060565.D (-3184) (-)

Ion 55.00 (54.70 to 55.70): VN060565.D (-3184) (-)

Ion 61.00 (60.70 to 61.70): VN060565.D (-3184) (-)



#76

1,2,3-Trichloropropane

Concen: 25.560 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060946.D

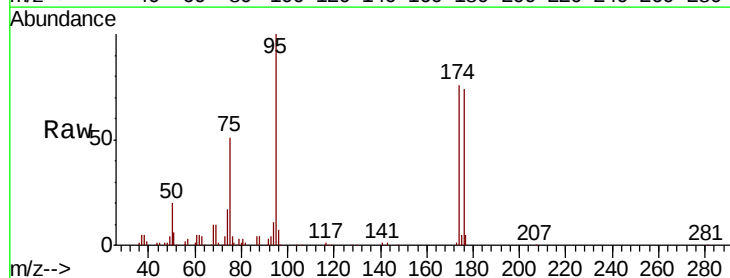
Acq: 14 Apr 2020 20:01

Tgt Ion: 75 Resp: 60960

Ion Ratio Lower Upper

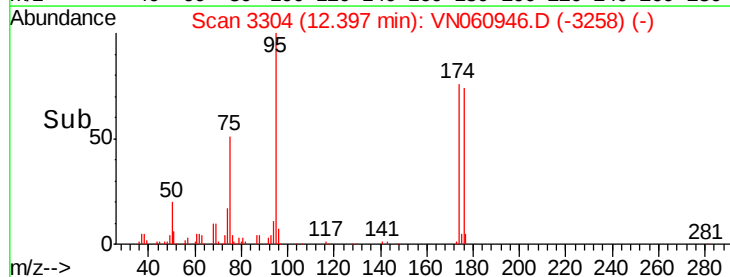
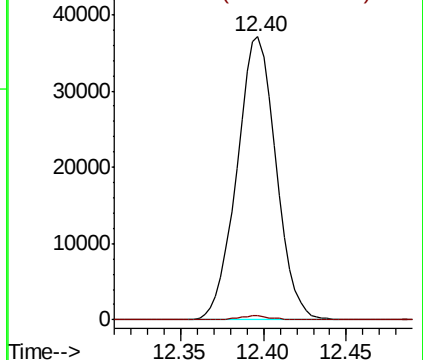
75 100

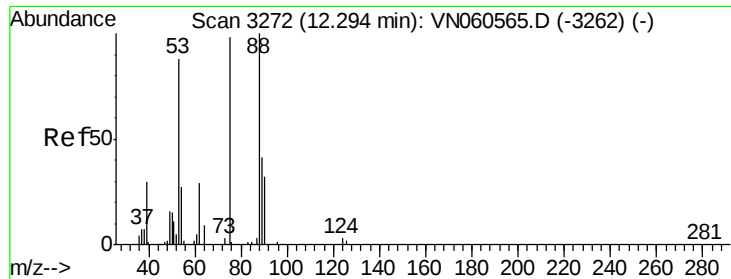
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060565.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060565.D (-3346) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 65.645 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060946.D

Acq: 14 Apr 2020 20:01

Instrument :

MSVOA_N

ClientSampleId :

TP-20

Tot Ion: 75 Resp: 60960

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

