

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031820\
 Data File : VN060618.D
 Acq On : 19 Mar 2020 2:14
 Operator : JC/MD
 Sample : L1953-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-COMP

Quant Time: Mar 19 05:07:35 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	189818	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	319146	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	299587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138707	50.00	ug/l	0.00

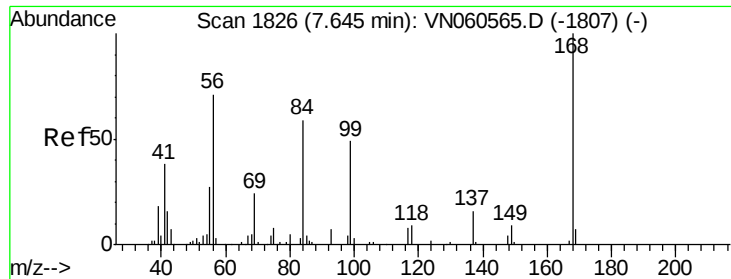
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	125275	48.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.16%	
35) Dibromofluoromethane	7.57	113	95573	49.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.06%	
50) Toluene-d8	10.08	98	393369	49.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.40	95	149395	51.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.44%	

Target Compounds

						Qvalue
16) Acetone	3.79	43	9574	10.373	ug/l	96
18) Methyl Acetate	4.30	43	1854	0.714	ug/l #	54
20) Methylene Chloride	4.53	84	7271	3.202	ug/l	90
25) 2-Butanone	6.81	43	1918	1.284	ug/l #	50
29) Tetrahydrofuran	7.19	42	377	0.357	ug/l #	35
31) Cyclohexane	7.64	56	3960	0.944	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14975	4.846	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18202	6.572	ug/l #	16
43) Isopropyl Acetate	8.14	43	52067	9.455	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	631	0.256	ug/l #	43
48) Methyl methacrylate	9.16	41	3253	1.327	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5379	1.717	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	24914	6.393	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3040	0.808	ug/l #	42
59) 2-Hexanone	10.75	43	45558	20.182	ug/l #	52
71) Bromoform	12.39	173	538	1.971	ug/l #	1
74) N-amyl acetate	12.02	43	3329	0.692	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	74151	24.775	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	74151	63.629	ug/l #	13
90) Hexachloroethane	13.99	117	485	0.377	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

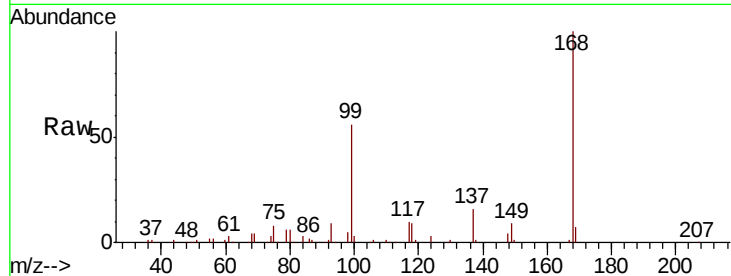
DRUM-COMP

Tot Ion:168 Resp: 189818

Ion Ratio Lower Upper

168 100

99 56.1 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060618.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060618.D (-1733) (-)

7.64

80000

60000

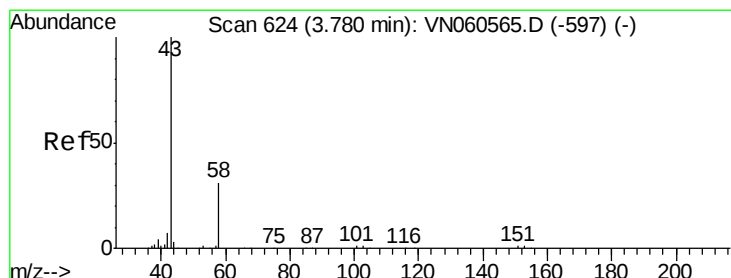
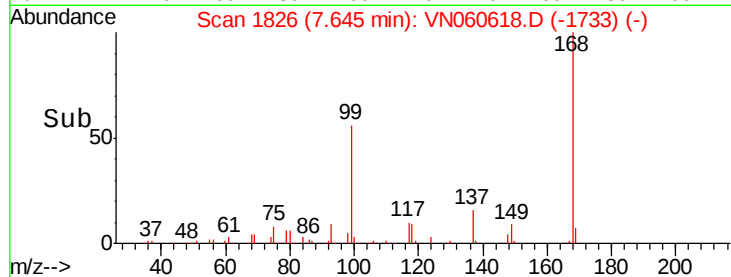
40000

20000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#16

Acetone

Concen: 10.373 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060618.D

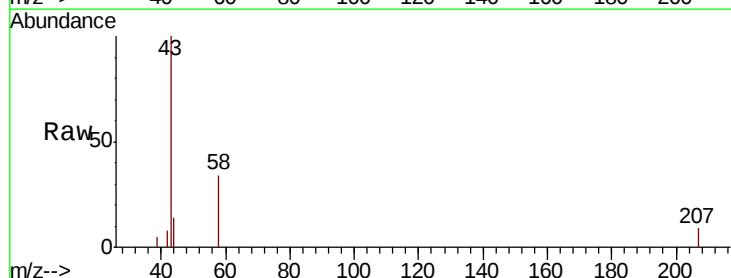
Acq: 19 Mar 2020 2:14

Tgt Ion: 43 Resp: 9574

Ion Ratio Lower Upper

43 100

58 33.7 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060618.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060618.D (-531) (-)

3.79

3000

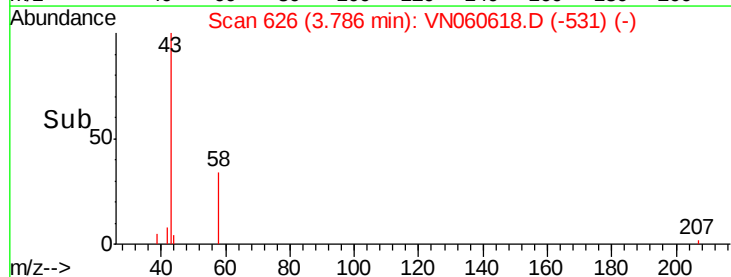
2000

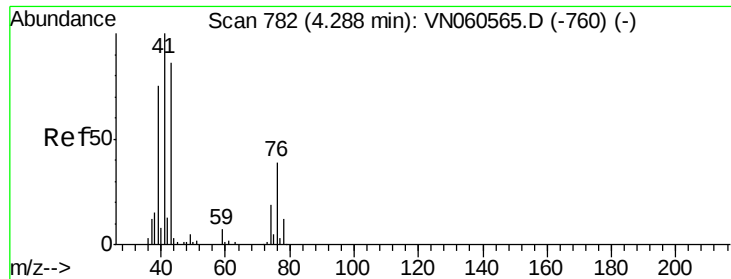
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

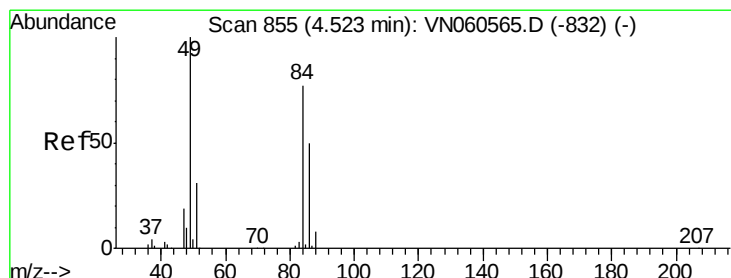
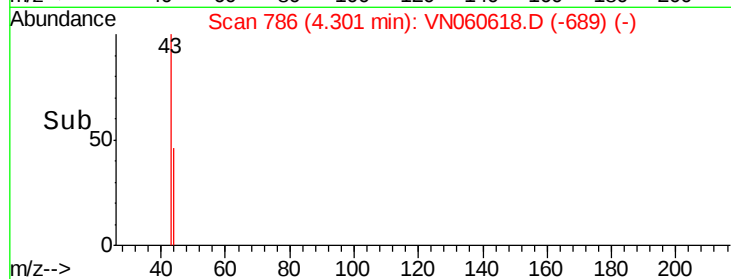
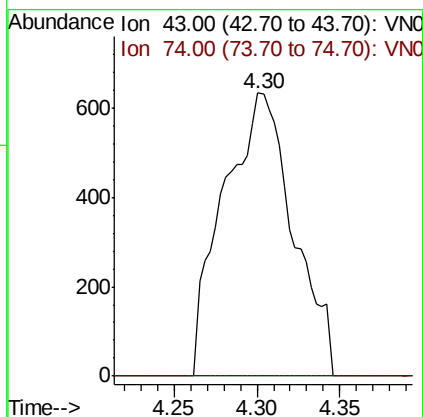
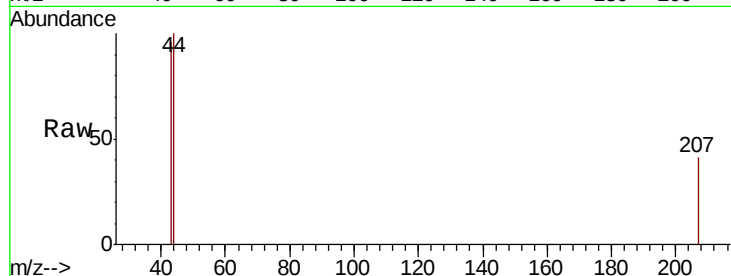




#18
Methyl Acetate
Concen: 0.714 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060618.D
Acq: 19 Mar 2020 2:14

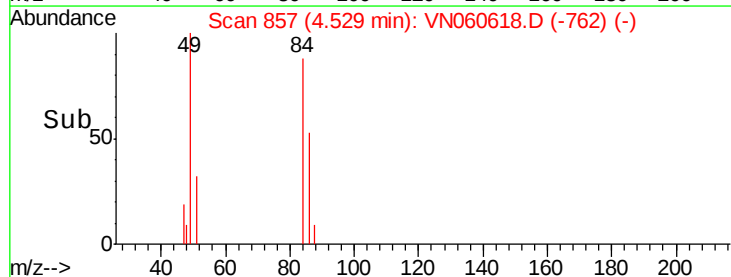
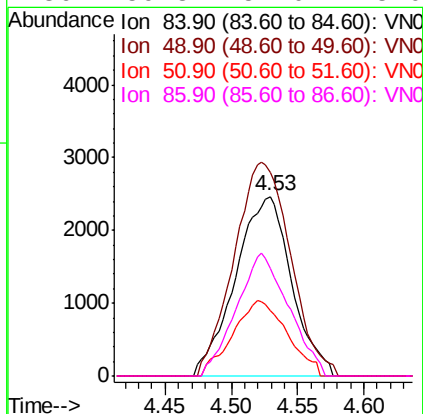
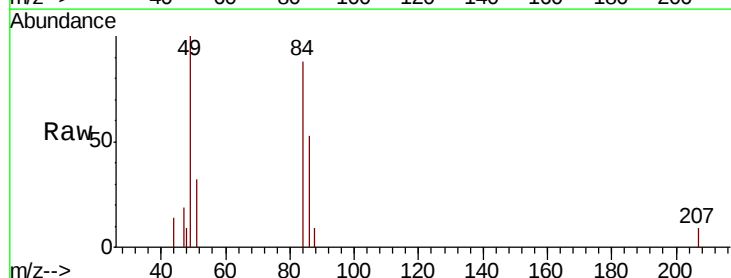
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

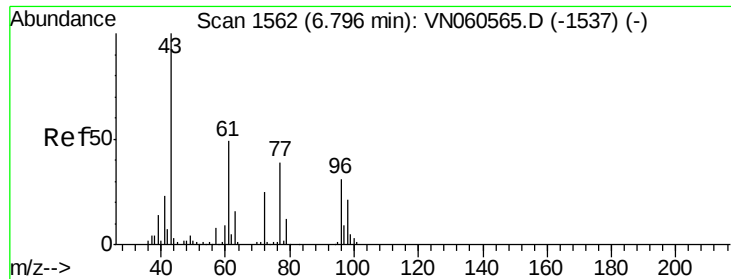
Tot Ion: 43 Resp: 1854
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 3.202 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060618.D
Acq: 19 Mar 2020 2:14

Tgt Ion: 84 Resp: 7271
Ion Ratio Lower Upper
84 100
49 113.8 103.3 154.9
51 36.6 31.6 47.4
86 59.8 52.0 78.0

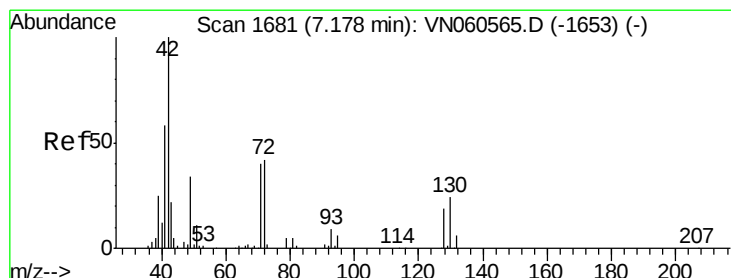
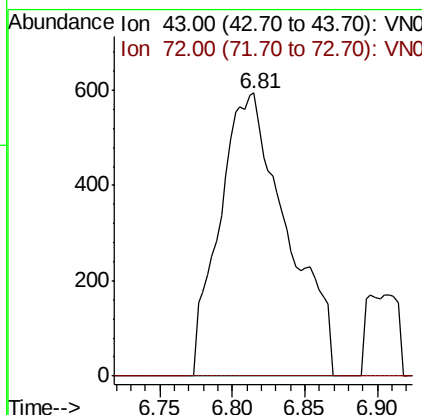
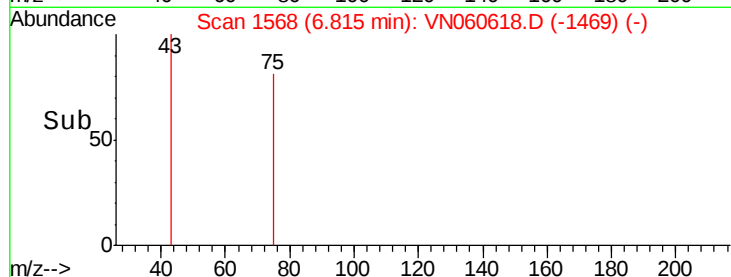
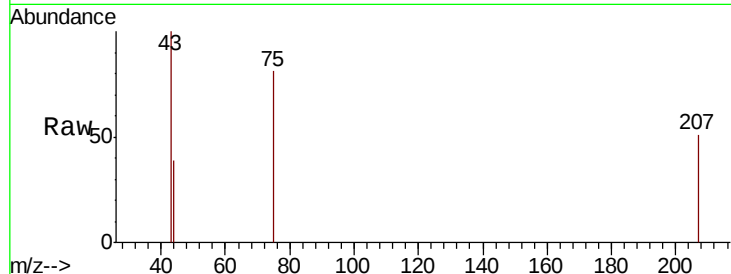




#25
 2-Butanone
 Concen: 1.284 ug/l
 RT: 6.81 min Scan# 1568
 Delta R.T. 0.02 min
 Lab File: VN060618.D
 Acq: 19 Mar 2020 2:14

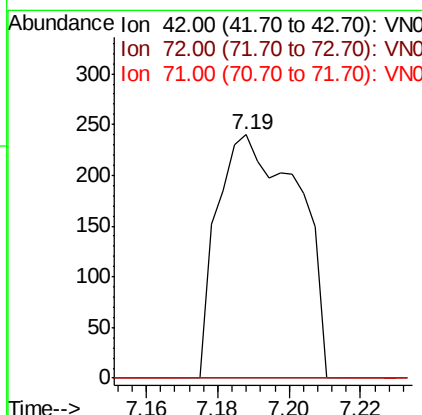
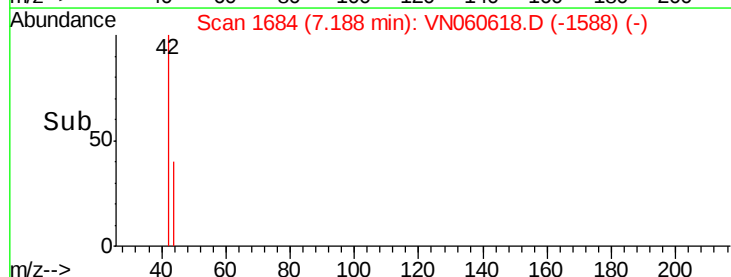
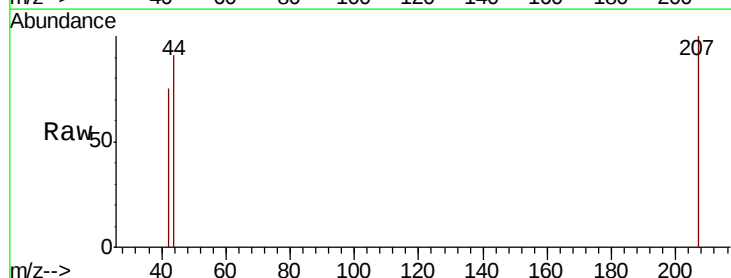
Instrument :
 MSVOA_N
 ClientSampleId :
 DRUM-COMP

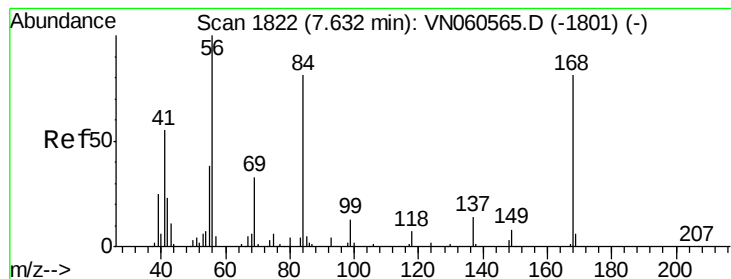
Tot Ion: 43 Resp: 1918
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.4 30.6#



#29
 Tetrahydrofuran
 Concen: 0.357 ug/l
 RT: 7.19 min Scan# 1684
 Delta R.T. 0.01 min
 Lab File: VN060618.D
 Acq: 19 Mar 2020 2:14

Tgt Ion: 42 Resp: 377
 Ion Ratio Lower Upper
 42 100
 72 0.0 33.2 49.8#
 71 0.0 31.1 46.7#





#31

Cyclohexane

Concen: 0.944 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

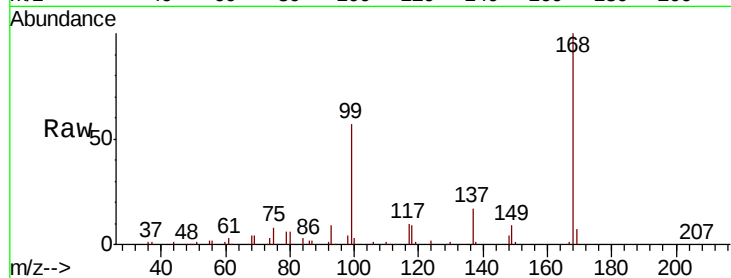
Tot Ion: 56 Resp: 3960

Ion Ratio Lower Upper

56 100

69 173.2 26.6 40.0#

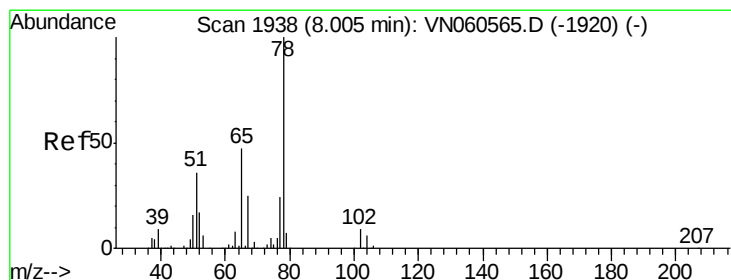
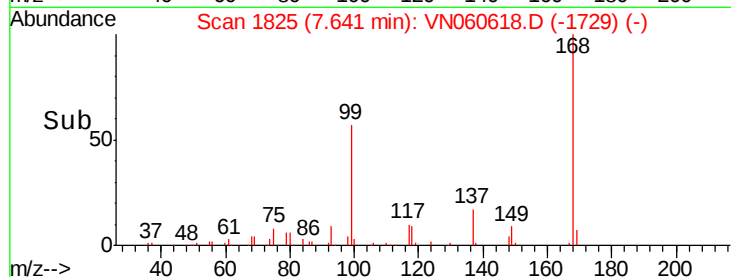
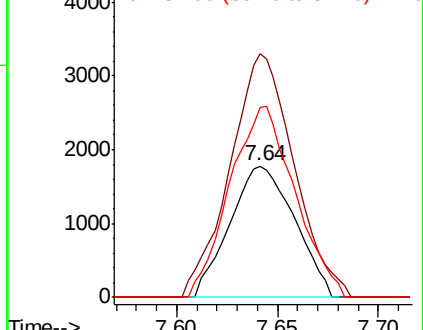
84 144.6 64.3 96.5#



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: 48.076 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060618.D

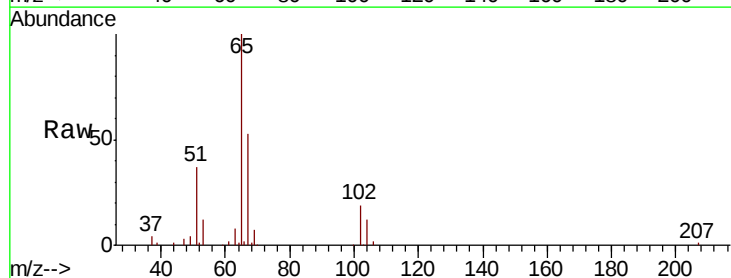
Acq: 19 Mar 2020 2:14

Tgt Ion: 65 Resp: 125275

Ion Ratio Lower Upper

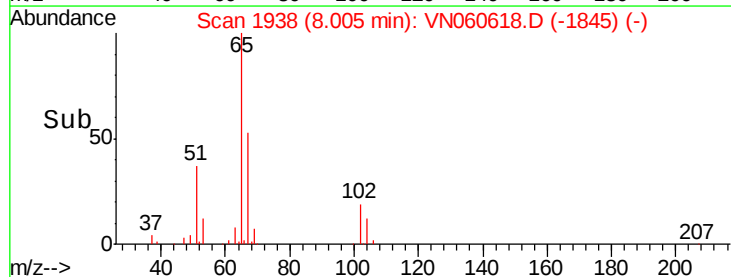
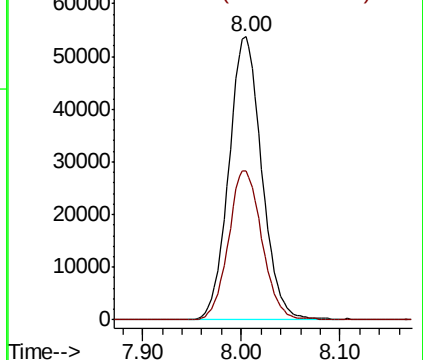
65 100

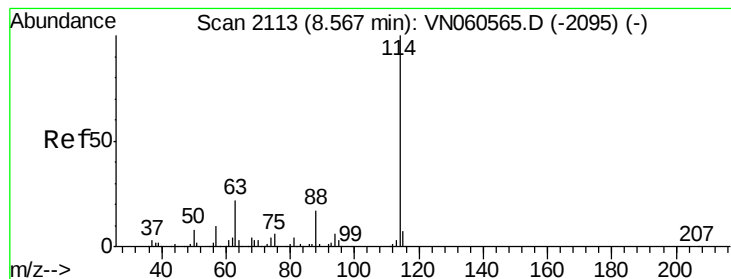
67 53.3 0.0 107.6



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: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

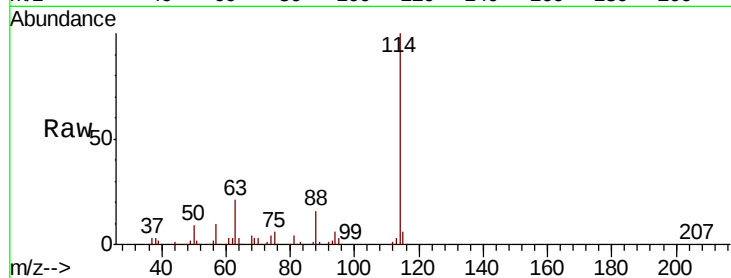
Tot Ion:114 Resp: 319146

Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.8

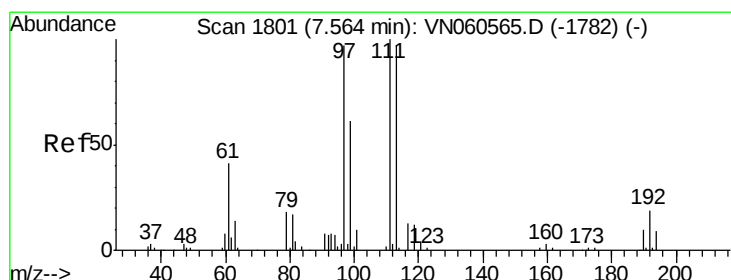
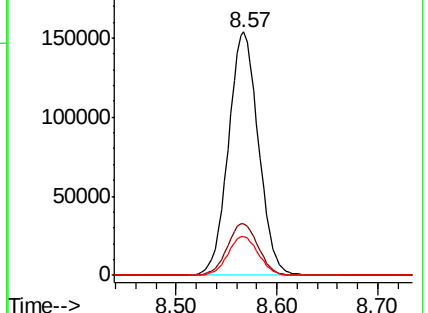
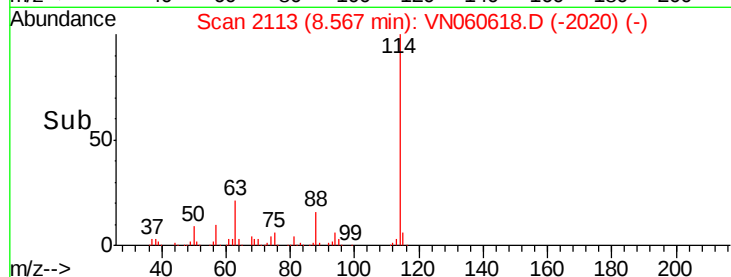
88 16.0 0.0 33.0



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: 49.525 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

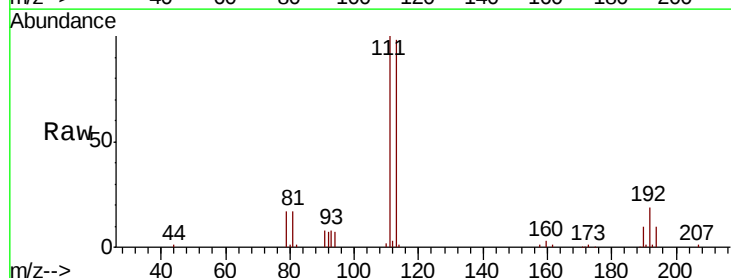
Tgt Ion:113 Resp: 95573

Ion Ratio Lower Upper

113 100

111 102.2 82.9 124.3

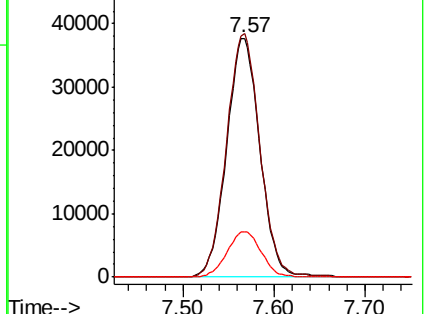
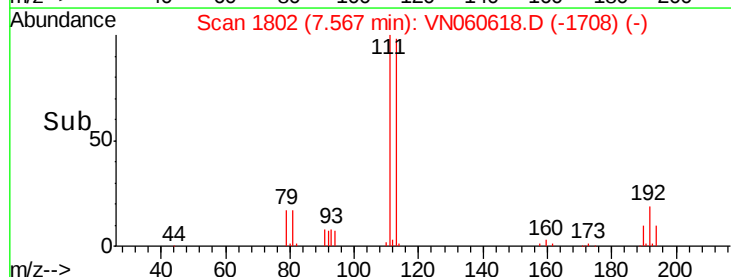
192 19.5 15.8 23.8

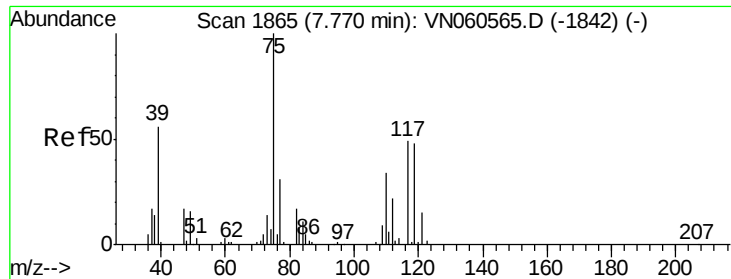


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

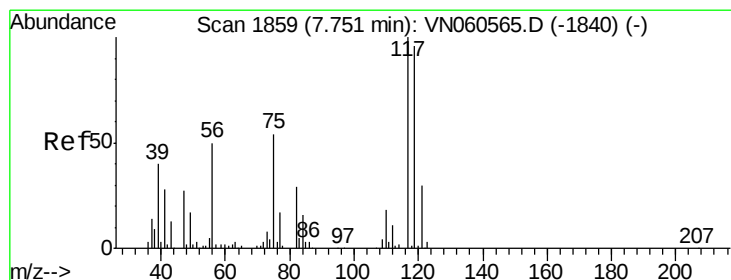
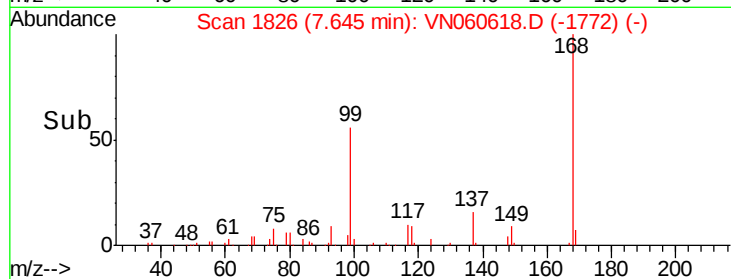
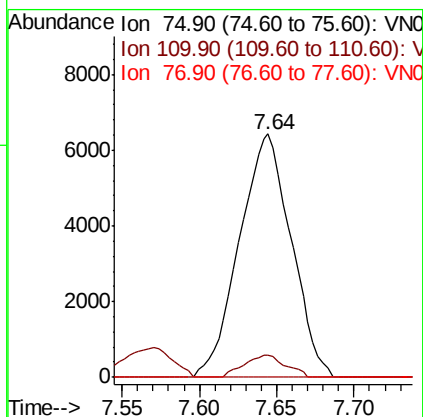
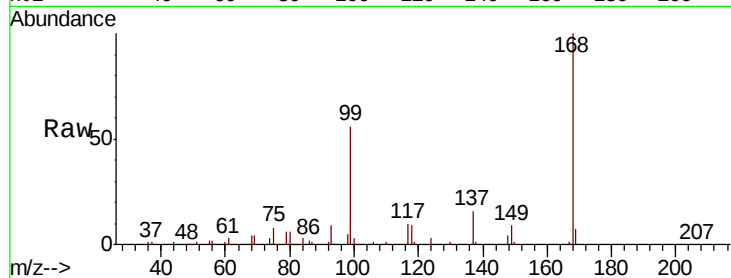




#36
 1,1-Dichloropropene
 Concen: 4.846 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060618.D
 Acq: 19 Mar 2020 2:14

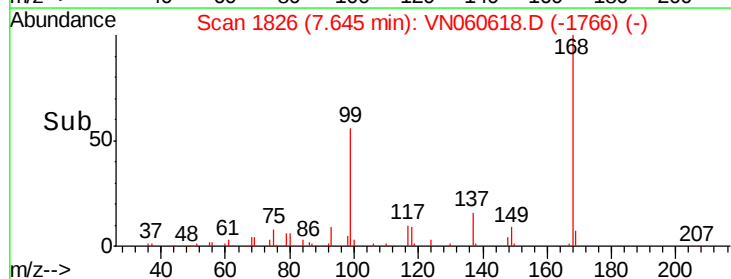
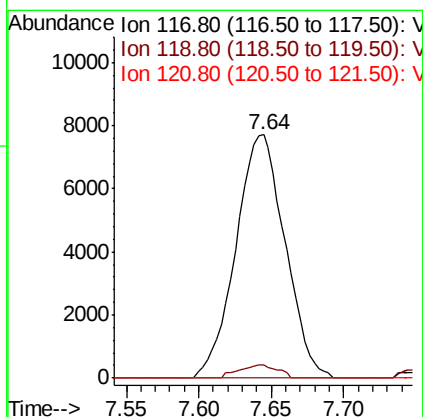
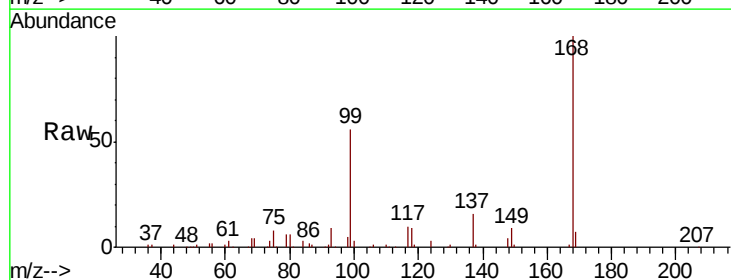
Instrument :
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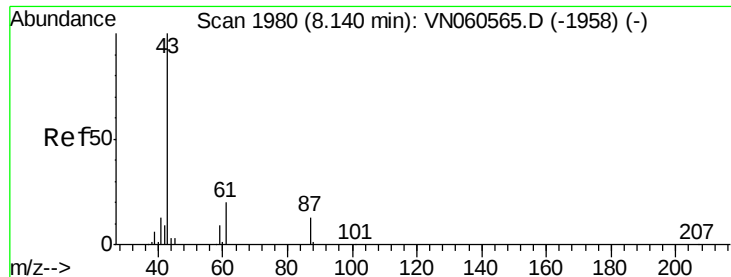
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.4	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.572 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060618.D
 Acq: 19 Mar 2020 2:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.2	114.2#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 9.455 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

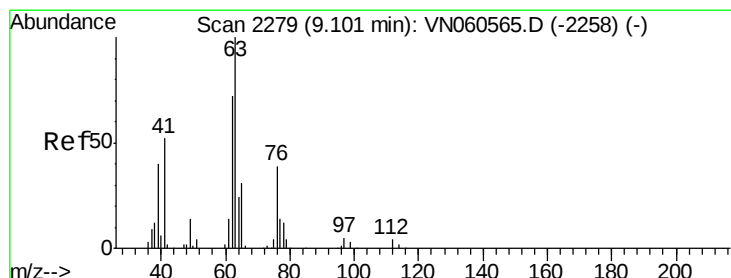
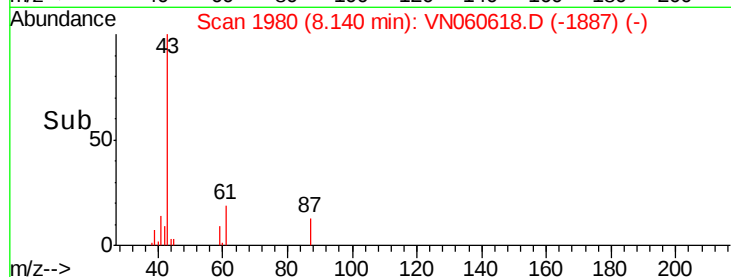
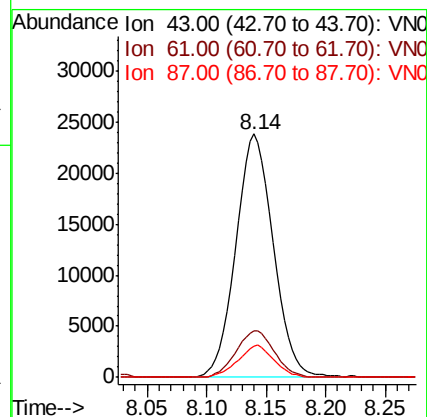
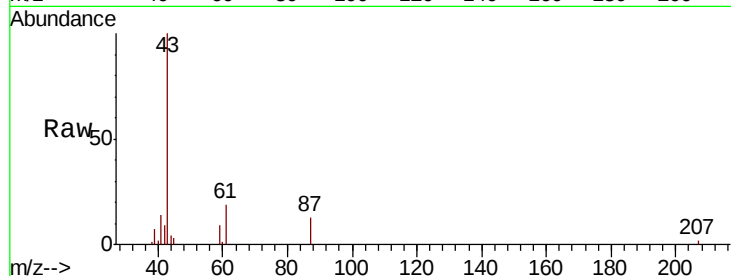
Tot Ion: 43 Resp: 52067

Ion Ratio Lower Upper

43 100

61 19.5 20.7 31.1#

87 12.4 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.256 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060618.D

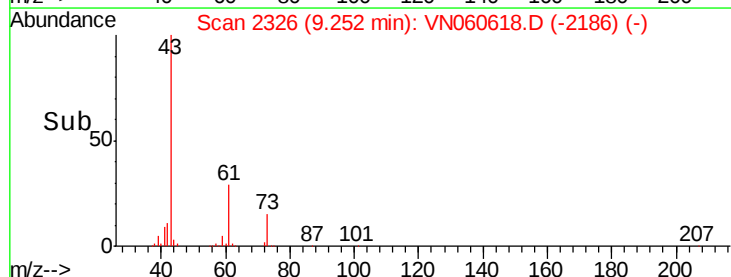
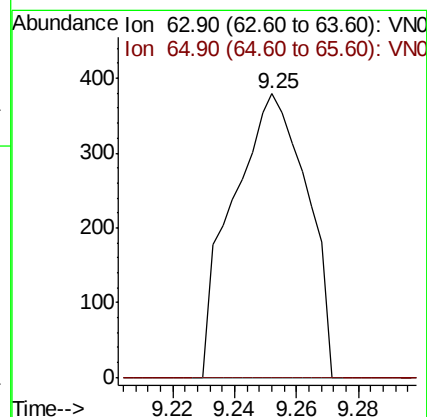
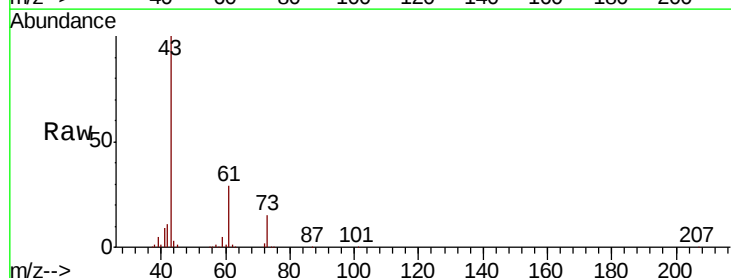
Acq: 19 Mar 2020 2:14

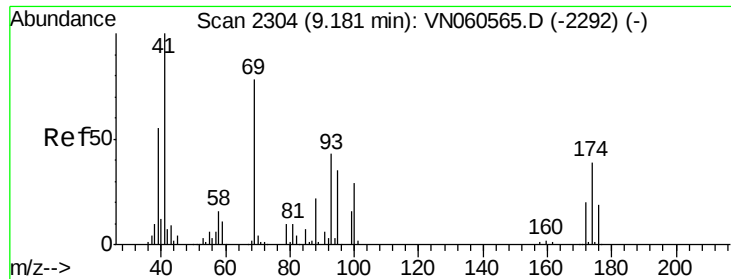
Tgt Ion: 63 Resp: 631

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

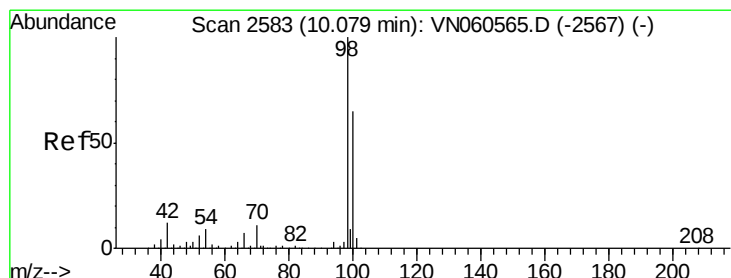
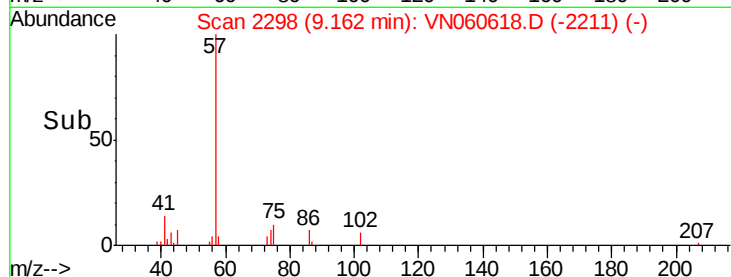
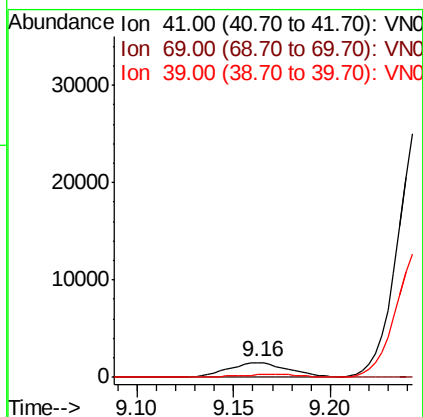
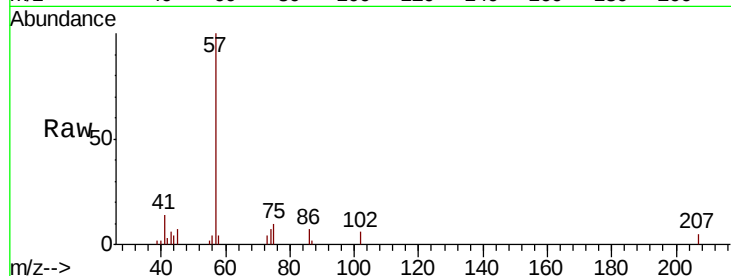




#48
Methvl methacrylate
Concen: 1.327 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060618.D
Acq: 19 Mar 2020 2:14

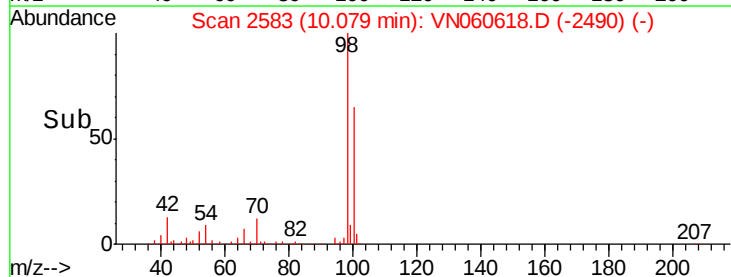
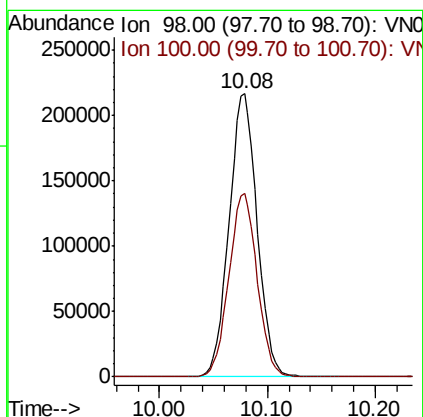
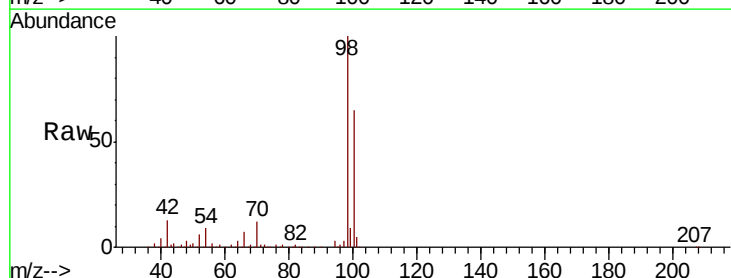
Instrument :
MSVOA_N
ClientSampleId :
DRUM-COMP

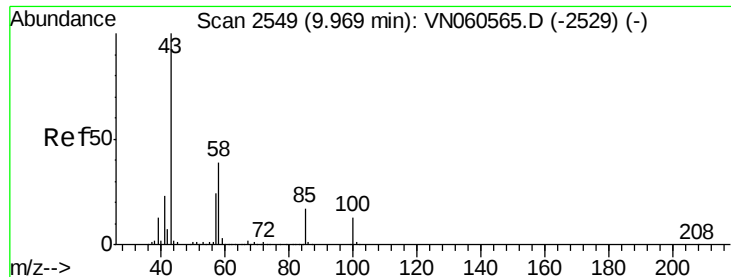
Tot Ion: 41 Resp: 3253
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 49.905 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060618.D
Acq: 19 Mar 2020 2:14

Tgt Ion: 98 Resp: 393369
Ion Ratio Lower Upper
98 100
100 65.3 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.717 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

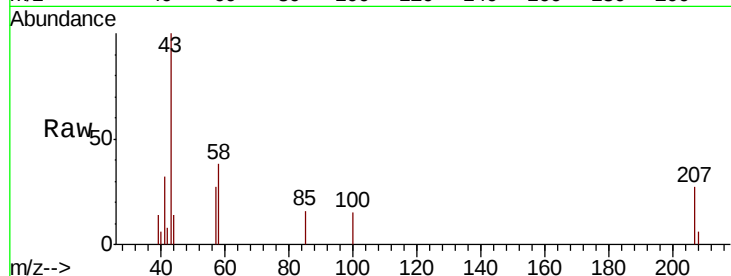
DRUM-COMP

Tot Ion: 43 Resp: 5379

Ion Ratio Lower Upper

43 100

58 33.3 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

5000

4000

3000

2000

1000

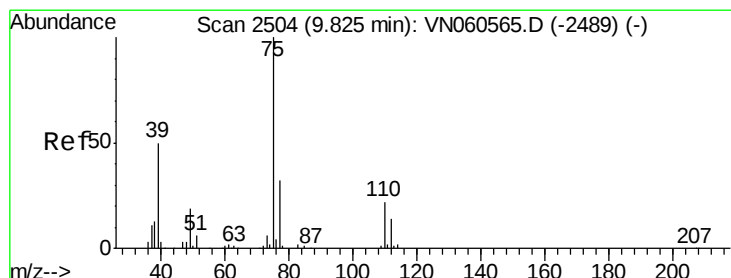
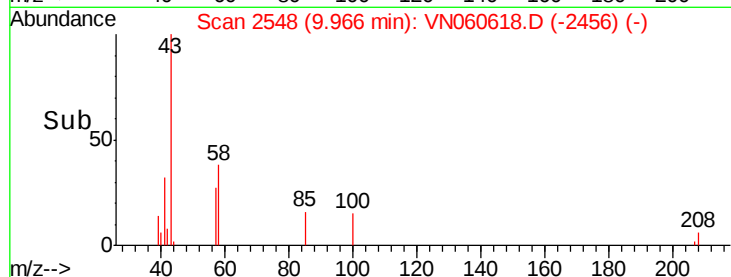
0

9.95

9.97

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.393 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

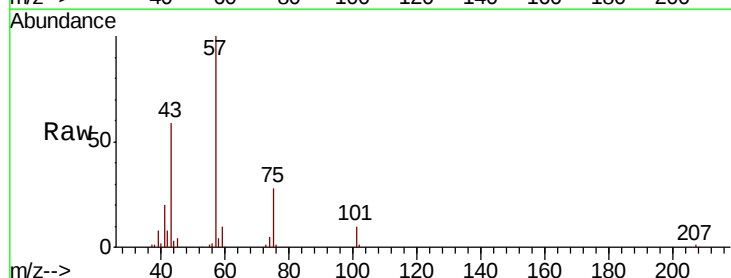
Tgt Ion: 75 Resp: 24914

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 28.5 40.2 60.4#



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

20000

15000

10000

5000

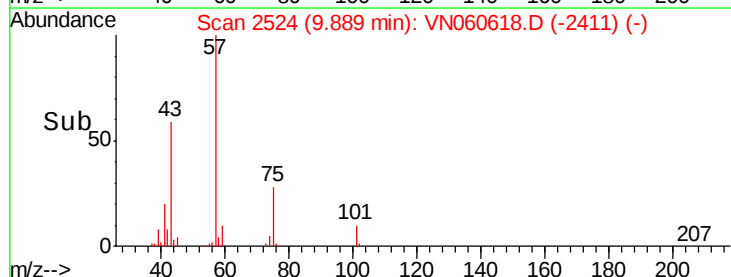
0

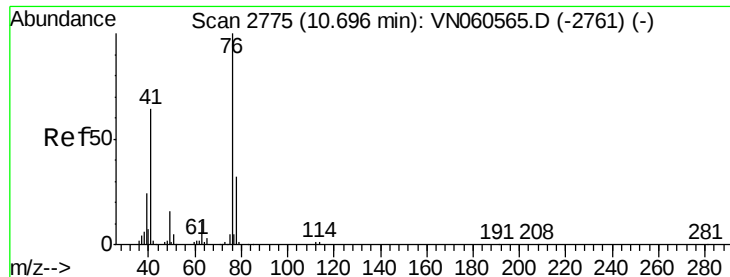
9.85

9.89

9.95

Time-->





#57

1,3-Dichloropropane

Concen: 0.808 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

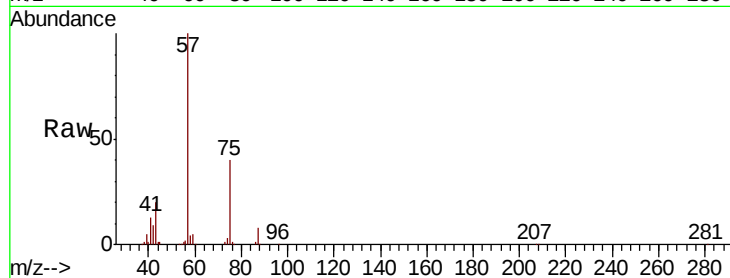
DRUM-COMP

Tot Ion: 76 Resp: 3040

Ion Ratio Lower Upper

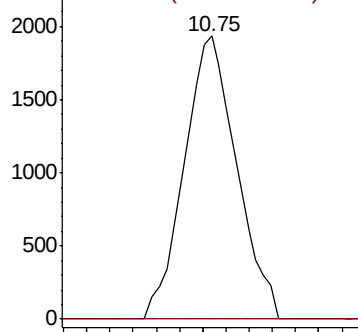
76 100

78 0.0 25.8 38.6#

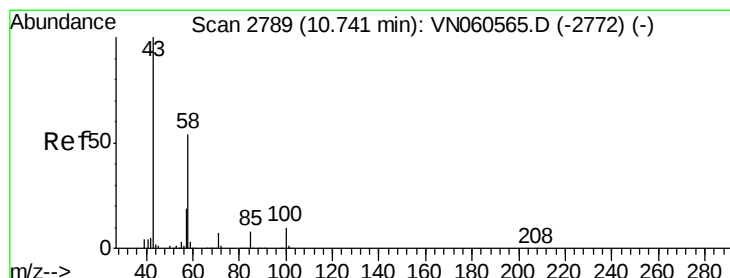
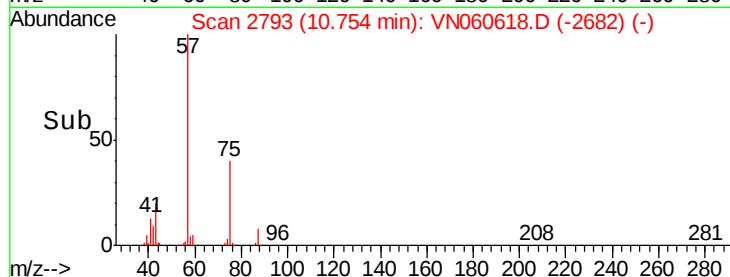


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->



#59

2-Hexanone

Concen: 20.182 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060618.D

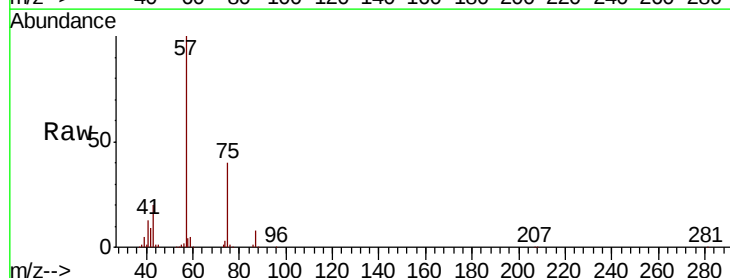
Acq: 19 Mar 2020 2:14

Tgt Ion: 43 Resp: 45558

Ion Ratio Lower Upper

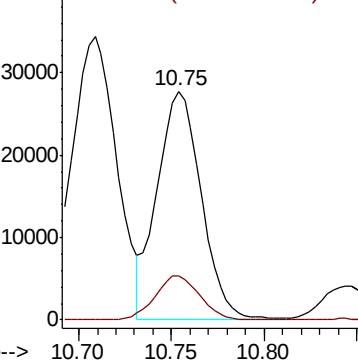
43 100

58 19.3 26.7 80.1#

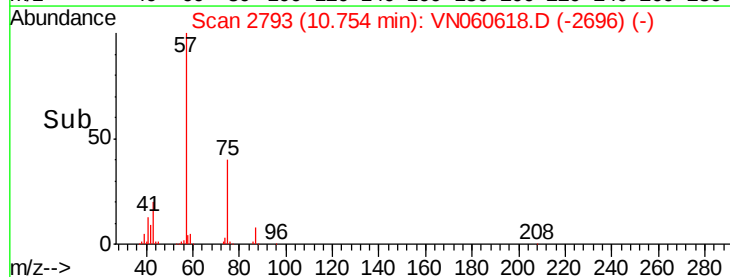


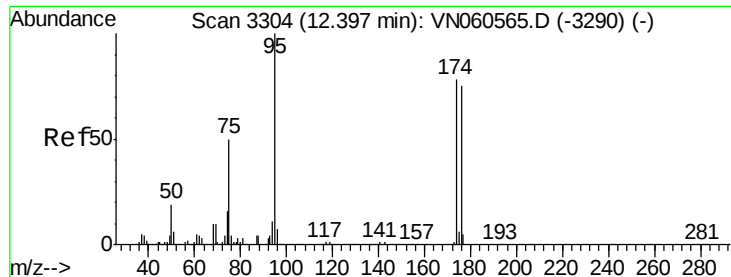
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 51.716 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

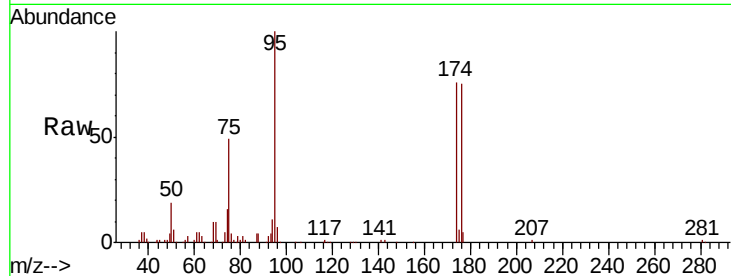
Tot Ion: 95 Resp: 149395

Ion Ratio Lower Upper

95 100

174 76.4 0.0 157.6

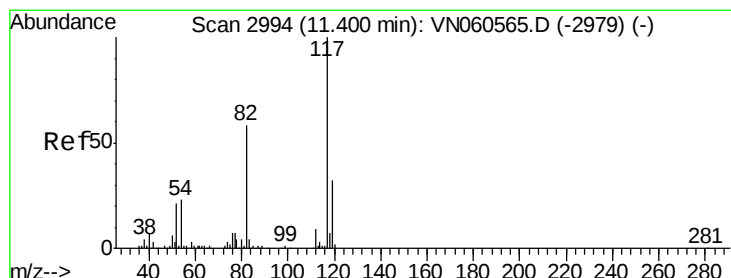
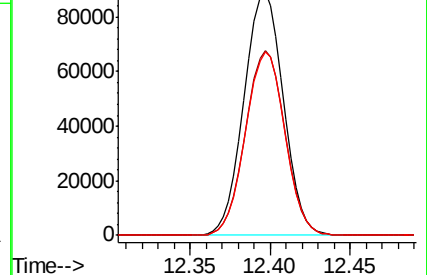
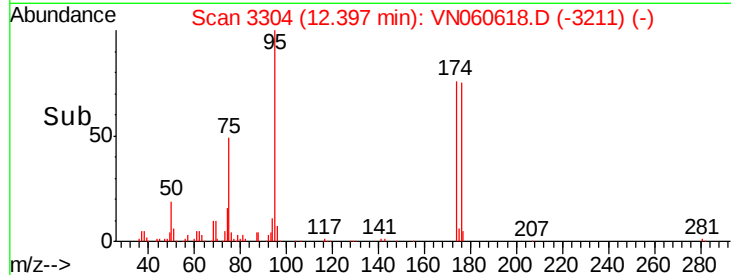
176 75.6 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060618.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060618.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060618.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

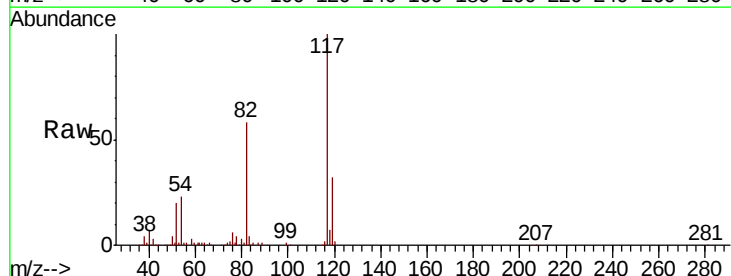
Tgt Ion: 117 Resp: 299587

Ion Ratio Lower Upper

117 100

82 58.3 46.7 70.1

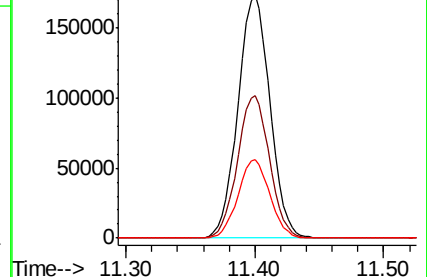
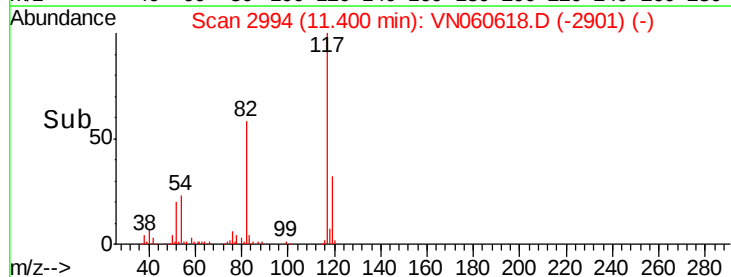
119 32.2 25.5 38.3

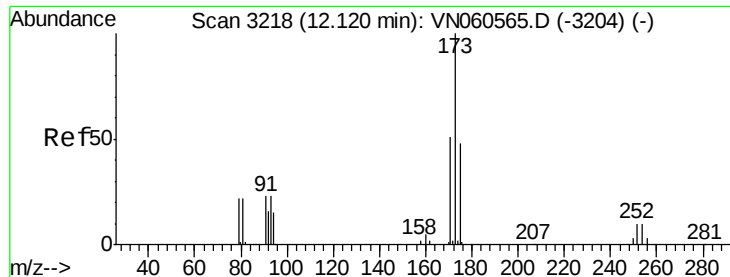


Abundance Ion 116.90 (116.60 to 117.60): VN060618.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060618.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060618.D (-2979) (-)





#71

Bromoform

Concen: 1.971 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.27 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

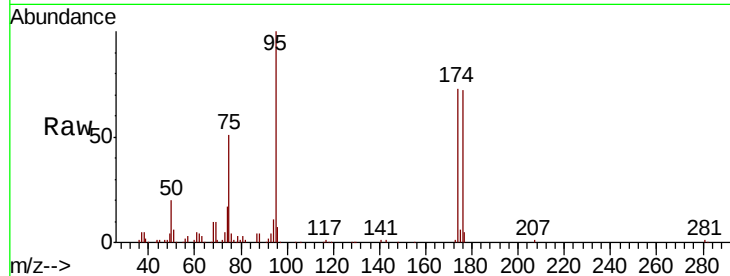
Tot Ion:173 Resp: 538

Ion Ratio Lower Upper

173 100

175 1383.5 24.1 72.4#

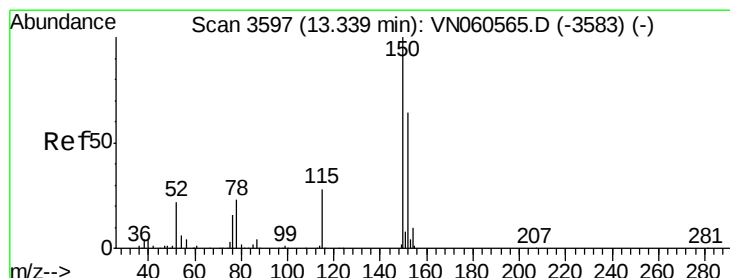
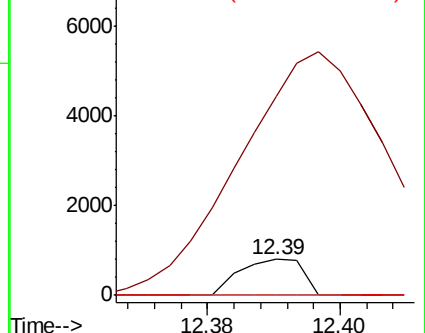
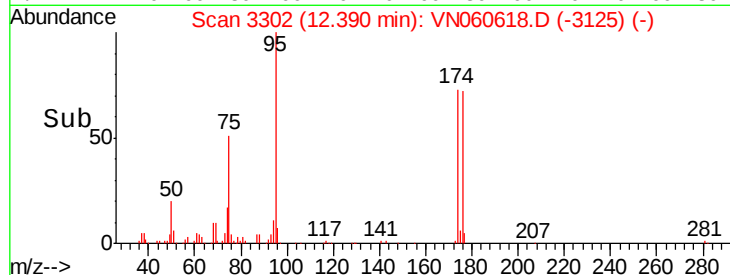
254 0.0 0.0 0.0



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: VN060618.D

Acq: 19 Mar 2020 2:14

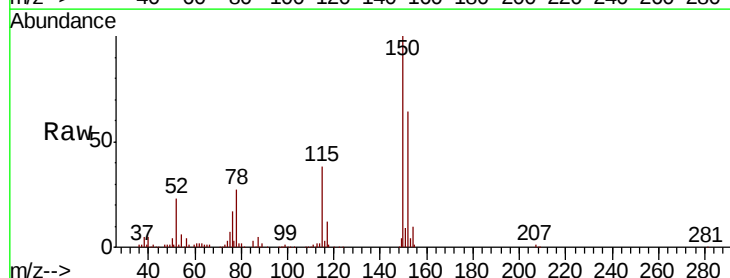
Tgt Ion:152 Resp: 138707

Ion Ratio Lower Upper

152 100

115 60.1 30.2 90.6

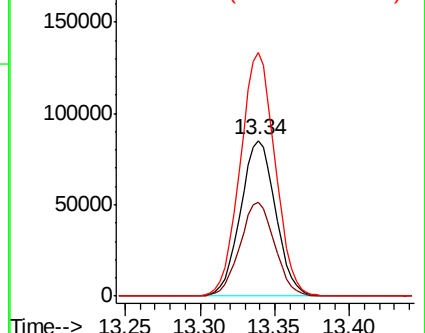
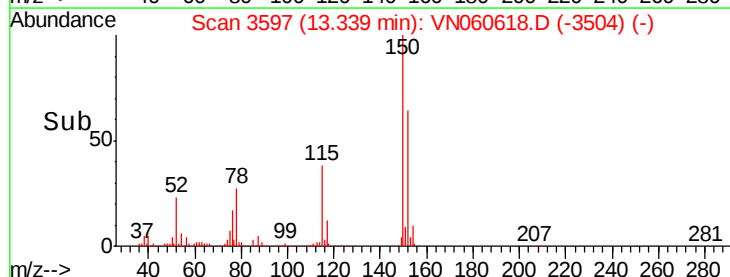
150 156.4 0.0 350.2

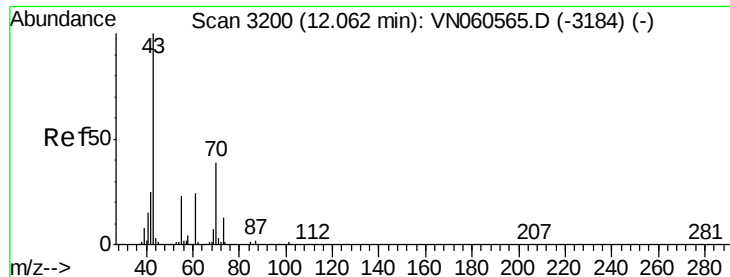


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.692 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

Tot Ion: 43 Resp: 3329

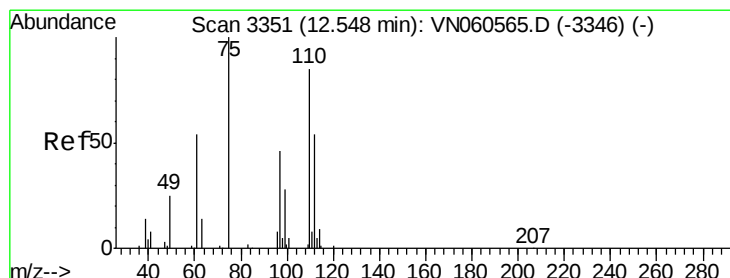
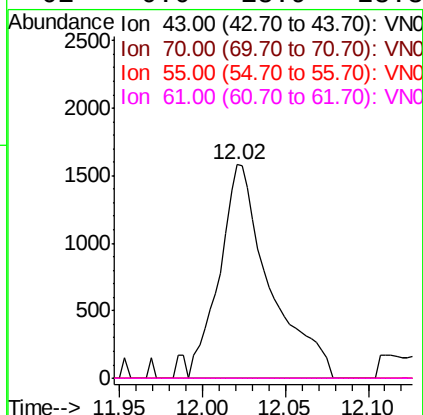
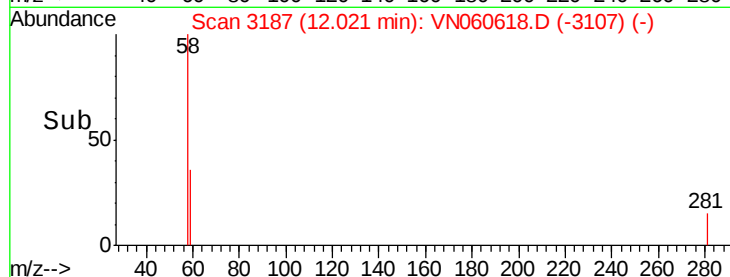
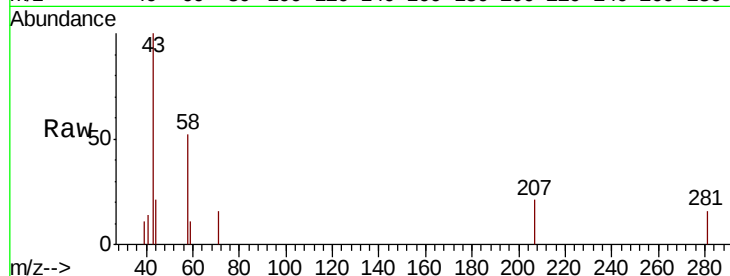
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#



#76

1,2,3-Trichloropropane

Concen: 24.775 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060618.D

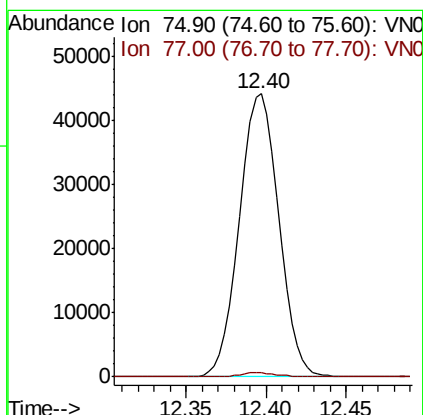
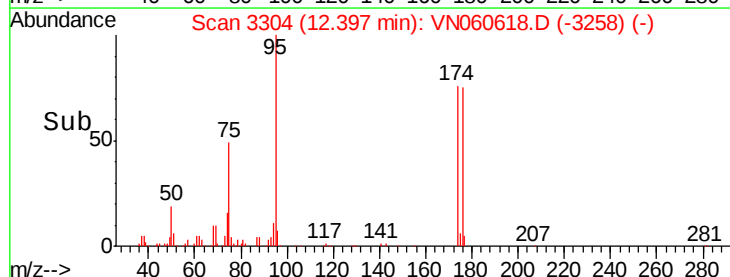
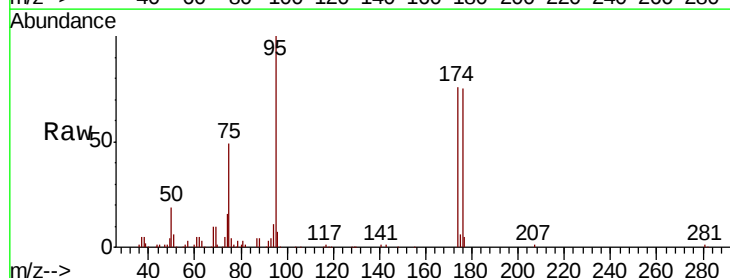
Acq: 19 Mar 2020 2:14

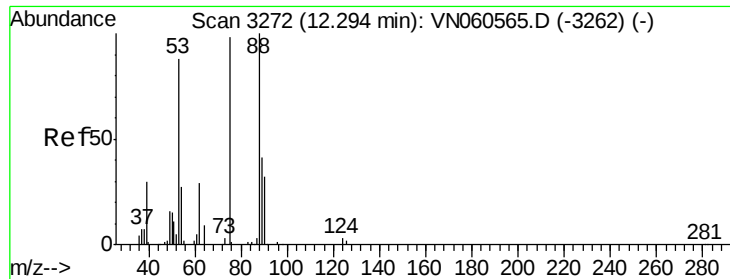
Tgt Ion: 75 Resp: 74151

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 63.629 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060618.D

Acq: 19 Mar 2020 2:14

Instrument :

MSVOA_N

ClientSampleId :

DRUM-COMP

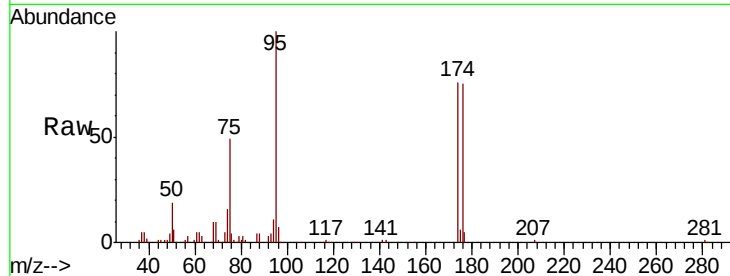
Tot Ion: 75 Resp: 74151

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

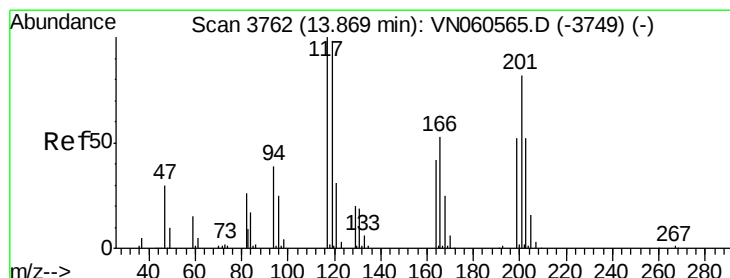
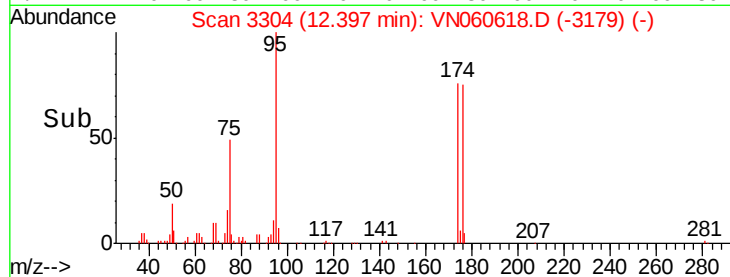
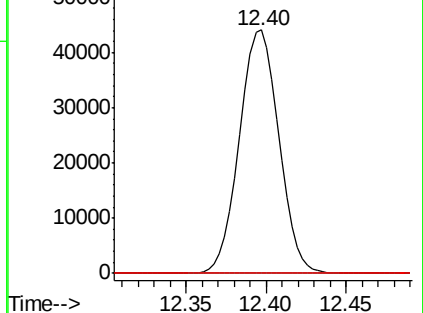
89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060618.D (-3304) (-)

Ion 53.00 (52.70 to 53.70): VN060618.D (-3304) (-)

Ion 88.90 (88.60 to 89.60): VN060618.D (-3304) (-)



#90

Hexachloroethane

Concen: 0.377 ug/l

RT: 13.99 min Scan# 3801

Delta R.T. 0.13 min

Lab File: VN060618.D

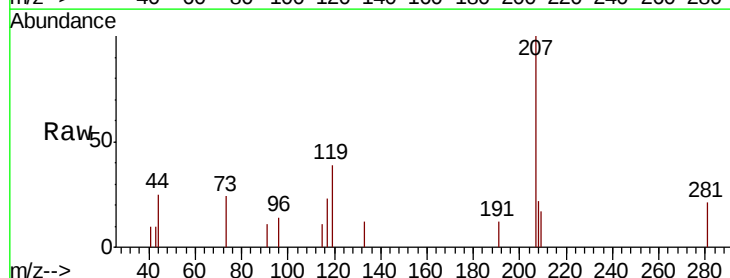
Acq: 19 Mar 2020 2:14

Tgt Ion: 117 Resp: 485

Ion Ratio Lower Upper

117 100

201 0.0 40.8 122.5#



Abundance Ion 116.80 (116.50 to 117.50): VN060618.D (-3801) (-)

Ion 200.70 (200.40 to 201.40): VN060618.D (-3801) (-)

