

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041420\
 Data File : VN060939.D
 Acq On : 14 Apr 2020 17:23
 Operator : JC/MD
 Sample : L2242-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 B-1

Quant Time: Apr 15 07:47:55 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	149196	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	252740	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	237181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	107018	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	98665	48.17	ug/l	0.00
Spiked Amount						
			Recovery	=	96.34%	
35) Dibromofluoromethane	7.56	113	74583	48.80	ug/l	0.00
Spiked Amount						
			Recovery	=	97.60%	
50) Toluene-d8	10.08	98	312422	50.05	ug/l	0.00
Spiked Amount						
			Recovery	=	100.10%	
62) 4-Bromofluorobenzene	12.40	95	117715	51.46	ug/l	0.00
Spiked Amount						
			Recovery	=	102.92%	

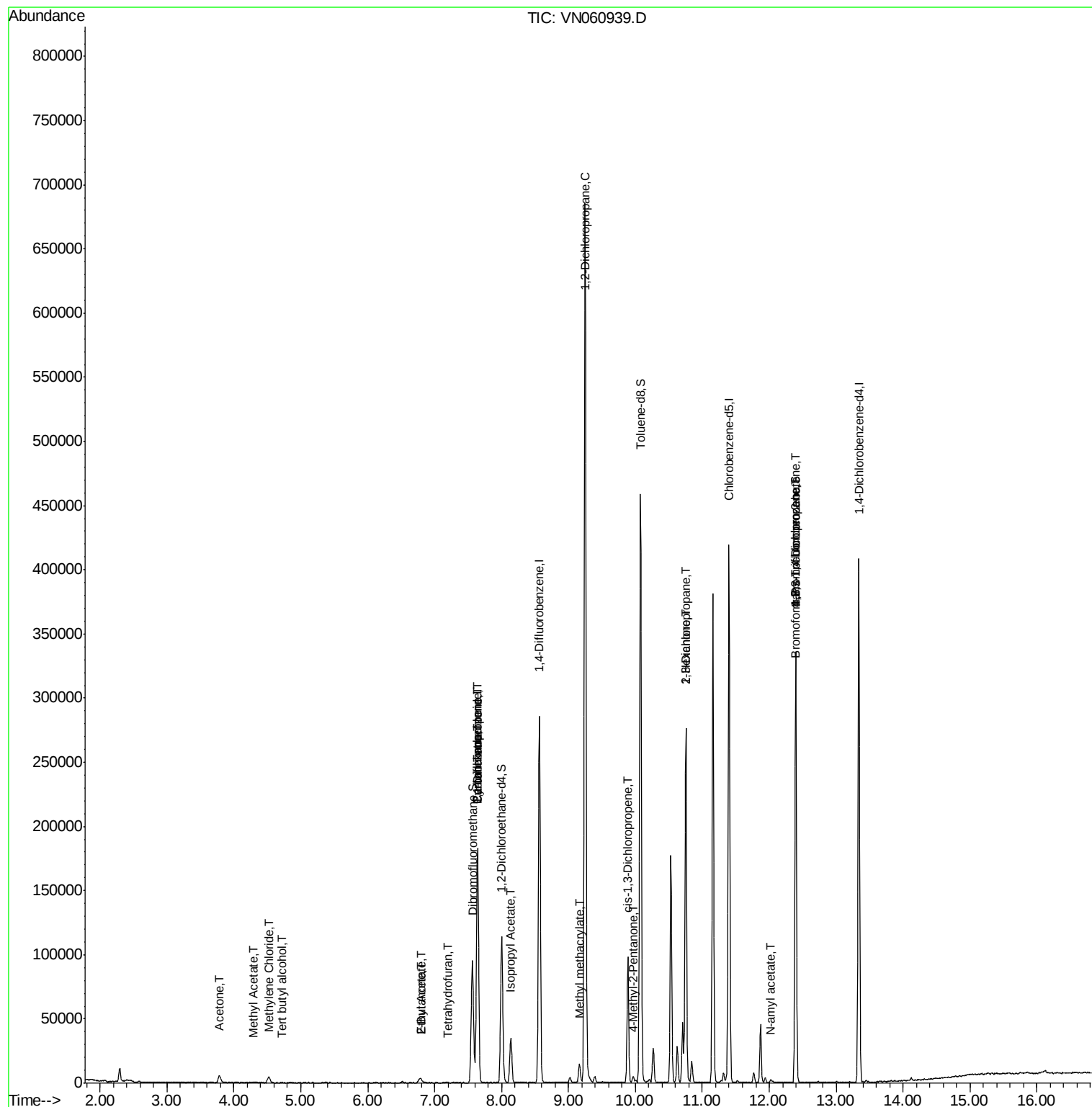
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	96	0.319	ug/l #	72
16) Acetone	3.78	43	10744	14.809	ug/l	98
18) Methyl Acetate	4.28	43	596	0.292	ug/l #	54
20) Methylene Chloride	4.52	84	3621	2.029	ug/l	94
25) 2-Butanone	6.80	43	4557	3.882	ug/l	98
29) Tetrahydrofuran	7.19	42	299	0.360	ug/l #	35
31) Cyclohexane	7.64	56	3028	0.918	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	11779	4.813	ug/l #	49
37) Ethyl Acetate	6.80	43	4557	1.723	ug/l #	70
38) Carbon Tetrachloride	7.64	117	14377	6.555	ug/l #	15
43) Isopropyl Acetate	8.14	43	42276	9.694	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	693	0.355	ug/l #	43
48) Methyl methacrylate	9.16	41	2090	1.076	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3752	1.512	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	17134	5.552	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2684	0.901	ug/l #	42
59) 2-Hexanone	10.75	43	41284	23.094	ug/l #	52
71) Bromoform	12.38	173	81	1.736	ug/l #	1
74) N-amyl acetate	12.02	43	2578	0.695	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	59793	25.893	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	59793	66.501	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: VN060939.D

Acq: 14 Apr 2020 17:23

Instrument :

MSVOA_N

ClientSampled :

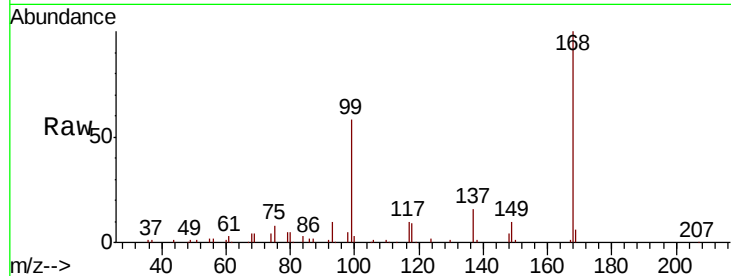
B-1

Tot Ion:168 Resp: 149196

Ion Ratio Lower Upper

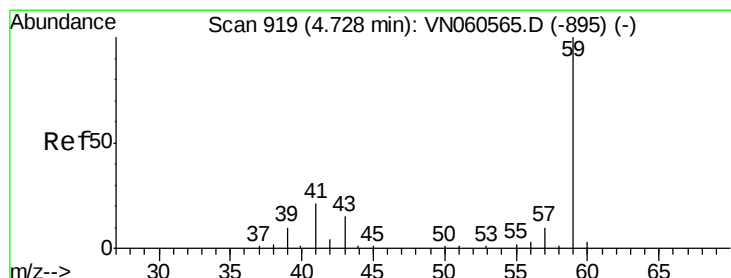
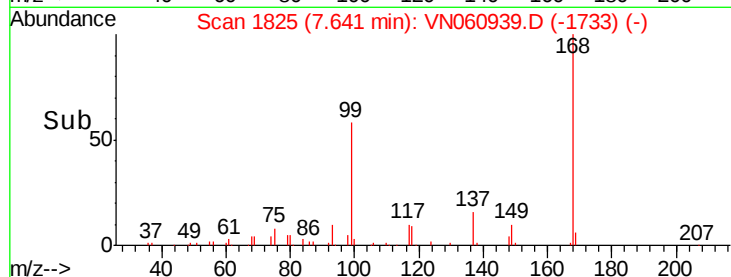
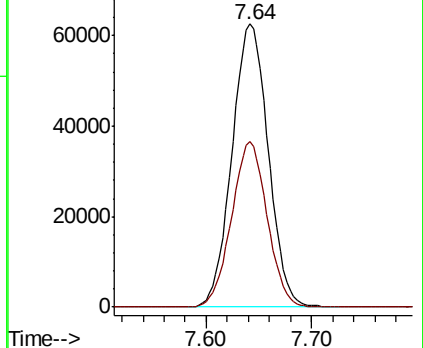
168 100

99 58.3 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.319 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.01 min

Lab File: VN060939.D

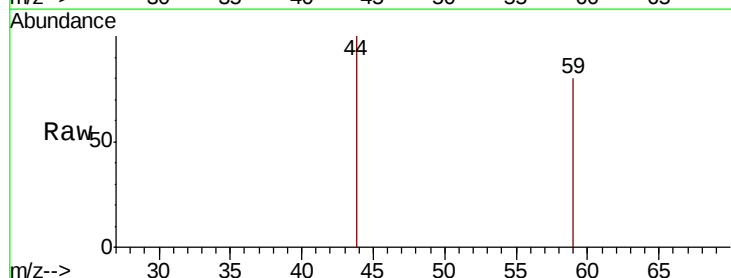
Acq: 14 Apr 2020 17:23

Tgt Ion: 59 Resp: 96

Ion Ratio Lower Upper

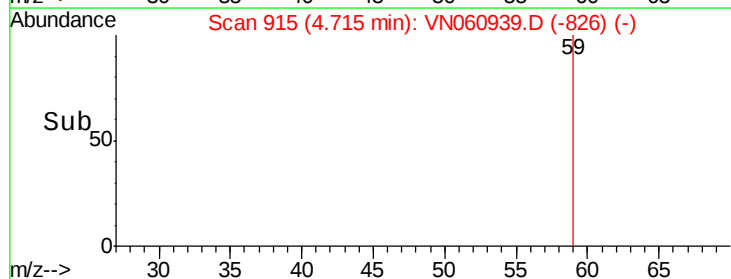
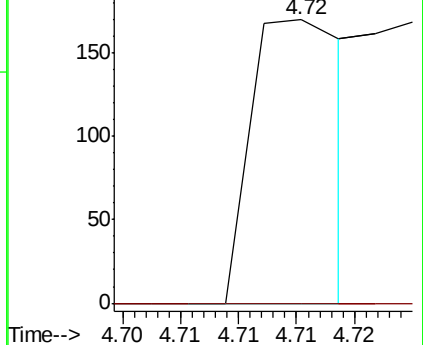
59 100

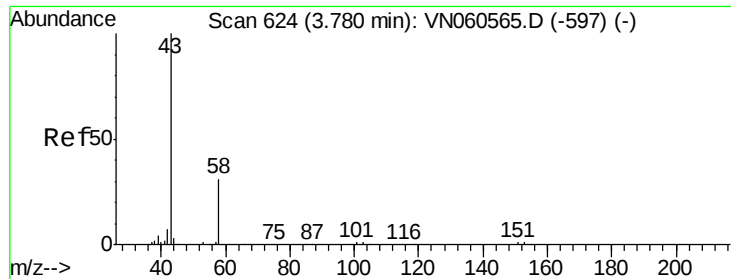
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 14.809 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

Instrument :

MSVOA_N

ClientSampled :

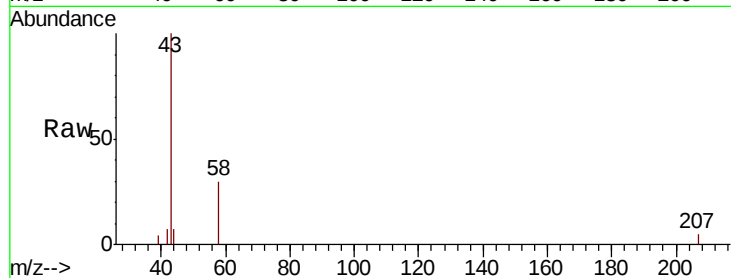
B-1

Tot Ion: 43 Resp: 10744

Ion Ratio Lower Upper

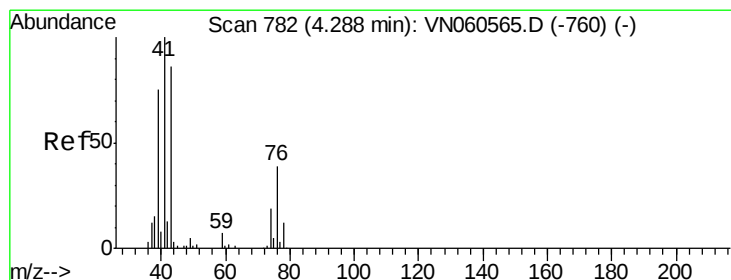
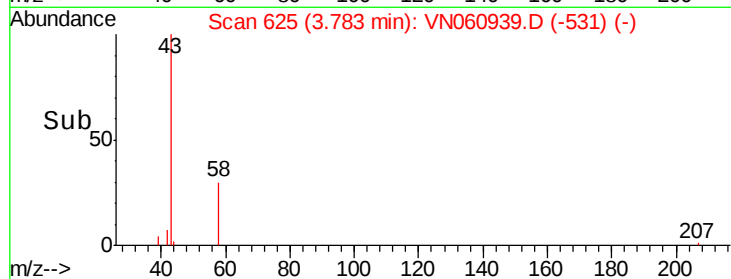
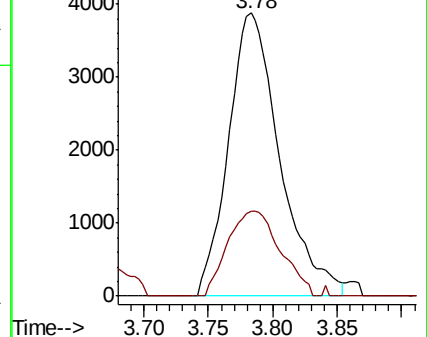
43 100

58 30.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060939.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060939.D (-531) (-)



#18

Methyl Acetate

Concen: 0.292 ug/l

RT: 4.28 min Scan# 781

Delta R.T. -0.00 min

Lab File: VN060939.D

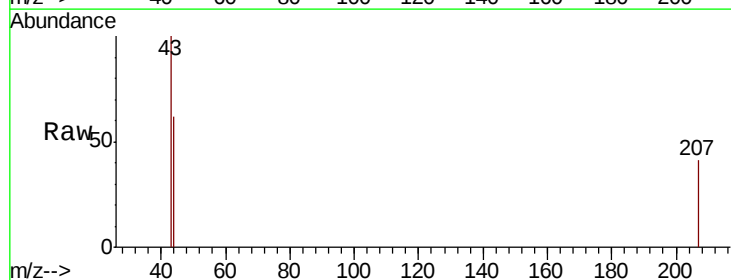
Acq: 14 Apr 2020 17:23

Tgt Ion: 43 Resp: 596

Ion Ratio Lower Upper

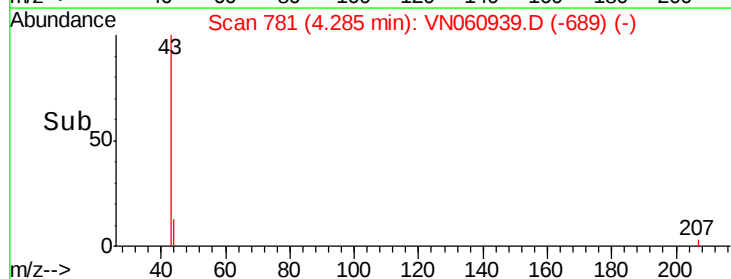
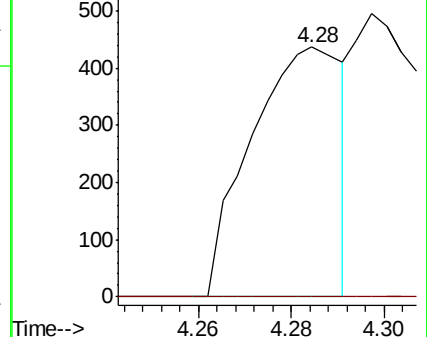
43 100

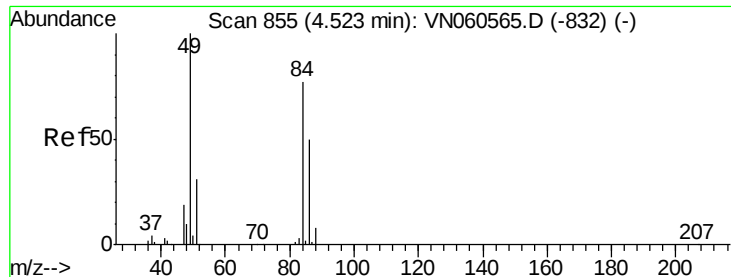
74 0.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060939.D (-689) (-)

Ion 74.00 (73.70 to 74.70): VN060939.D (-689) (-)

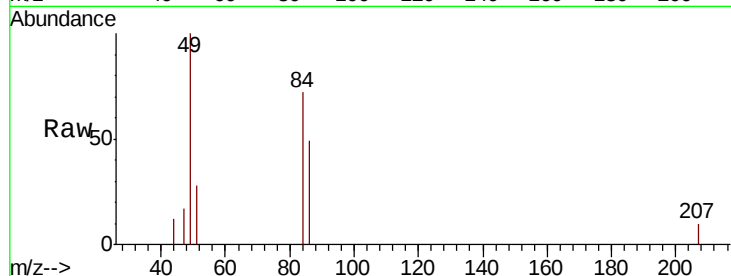




#20
Methvlene Chloride
Concen: 2.029 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060939.D
Acq: 14 Apr 2020 17:23

Instrument :
MSVOA_N
ClientSampled :
B-1

Tot Ion:	84	Resp:	3621
Ion	Ratio	Lower	Upper
84	100		
49	138.8	103.3	154.9
51	39.0	31.6	47.4
86	67.3	52.0	78.0



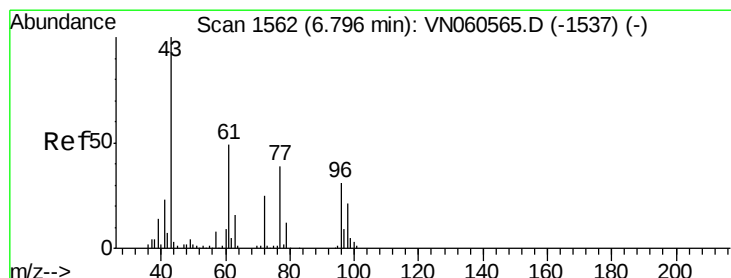
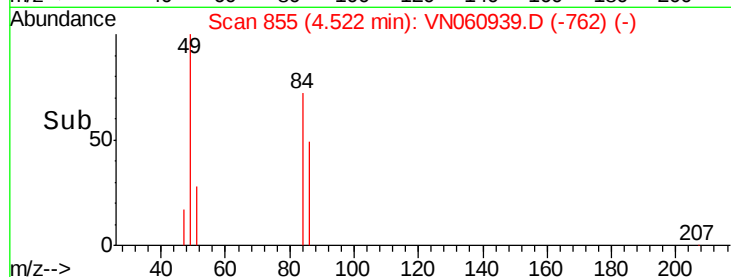
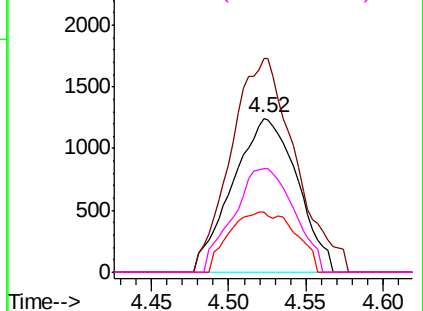
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

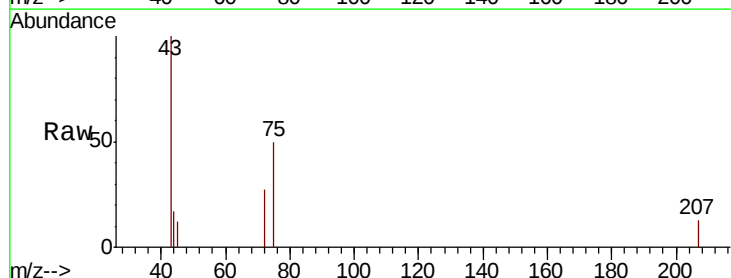
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 3.882 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VN060939.D
Acq: 14 Apr 2020 17:23

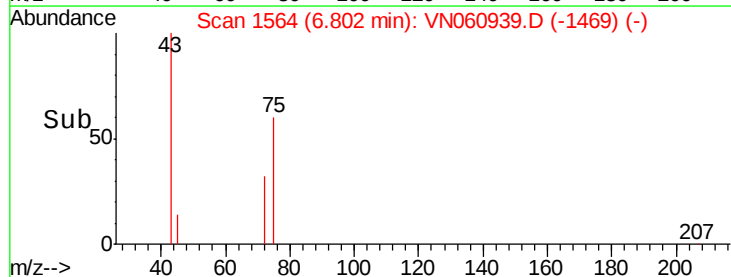
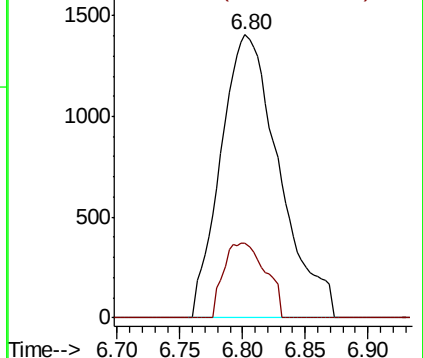
Tgt Ion:	43	Resp:	4557
Ion	Ratio	Lower	Upper
43	100		
72	26.5	20.4	30.6

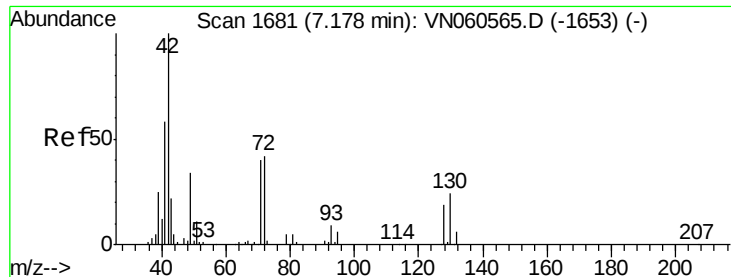


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

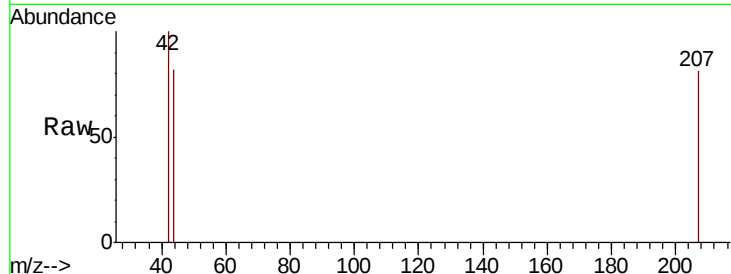




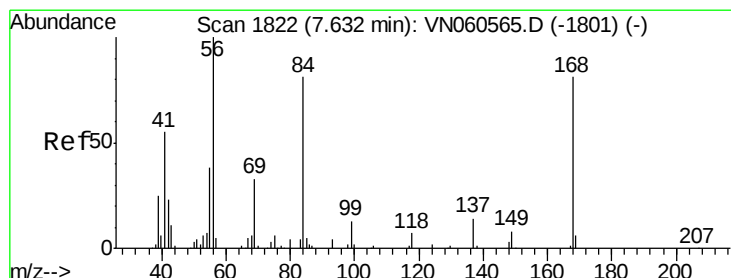
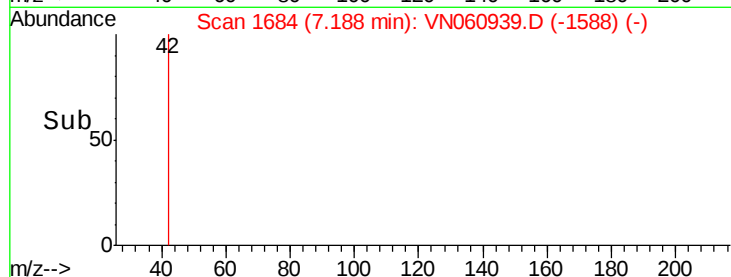
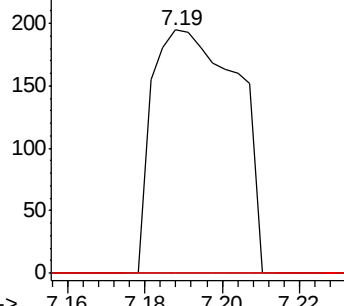
#29
Tetrahydrofuran
Concen: 0.360 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VN060939.D
Acq: 14 Apr 2020 17:23

Instrument :
MSVOA_N
ClientSampled :
B-1

Tot Ion: 42 Resp: 299
Ion Ratio Lower Upper
42 100
72 0.0 33.2 49.8#
71 0.0 31.1 46.7#

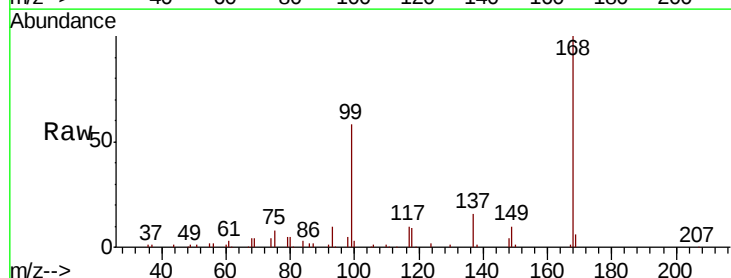


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

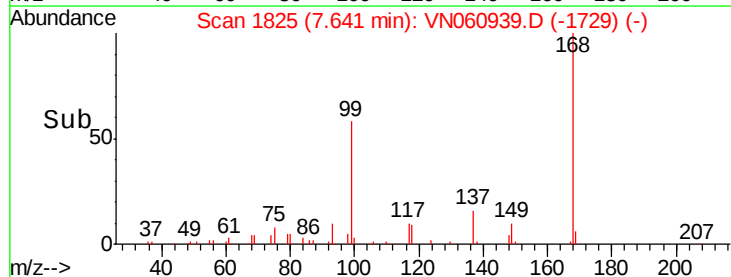
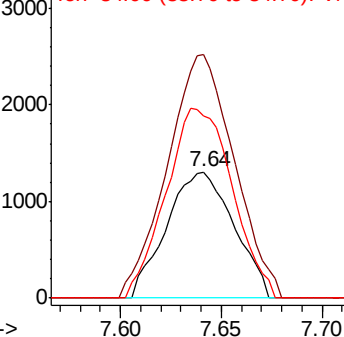


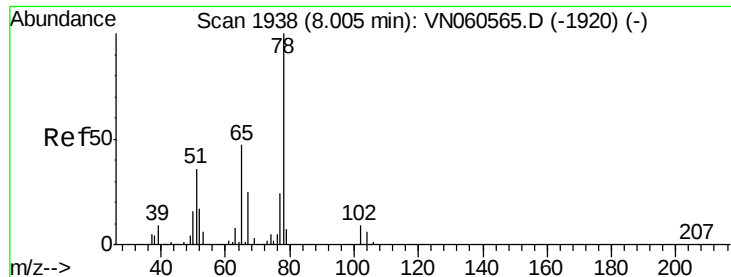
#31
Cyclohexane
Concen: 0.918 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060939.D
Acq: 14 Apr 2020 17:23

Tgt Ion: 56 Resp: 3028
Ion Ratio Lower Upper
56 100
69 180.1 26.6 40.0#
84 144.4 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: 48.173 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

Instrument :

MSVOA_N

ClientSampleId :

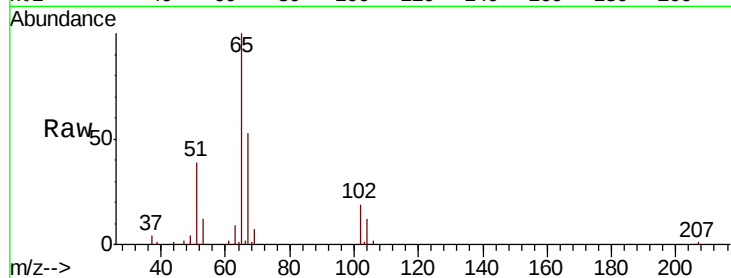
B-1

Tot Ion: 65 Resp: 98665

Ion Ratio Lower Upper

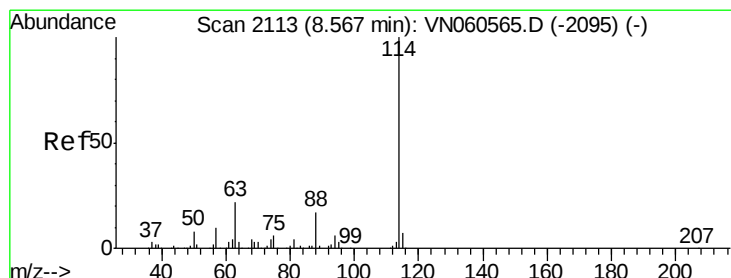
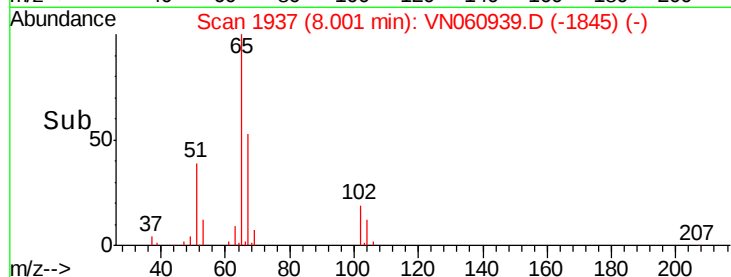
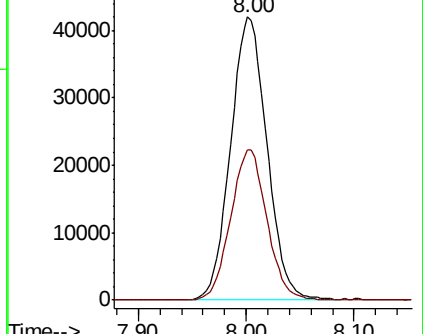
65 100

67 52.8 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060565.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060565.D (-1920) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

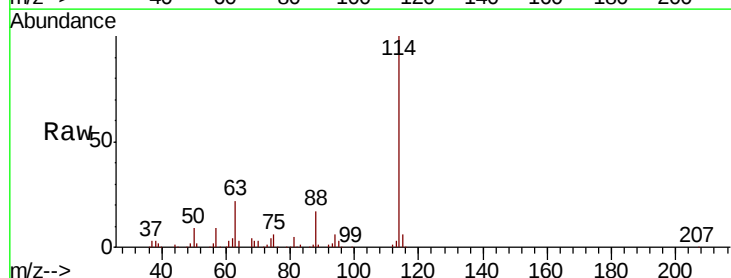
Tgt Ion: 114 Resp: 252740

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

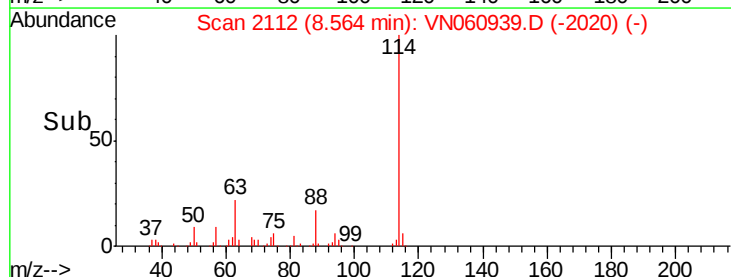
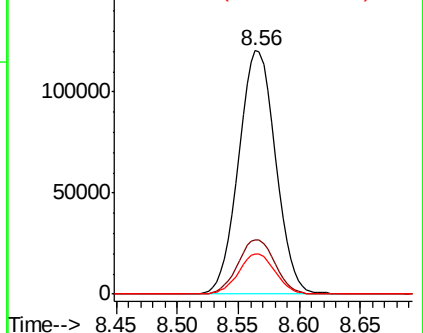
88 16.6 0.0 33.0

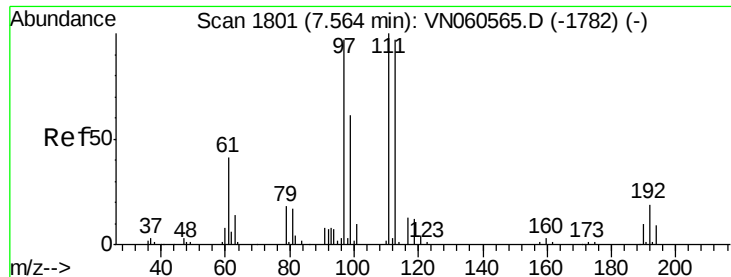


Abundance Ion 113.90 (113.60 to 114.60): VN060565.D (-2095) (-)

Ion 63.00 (62.70 to 63.70): VN060565.D (-2095) (-)

Ion 87.90 (87.60 to 88.60): VN060565.D (-2095) (-)

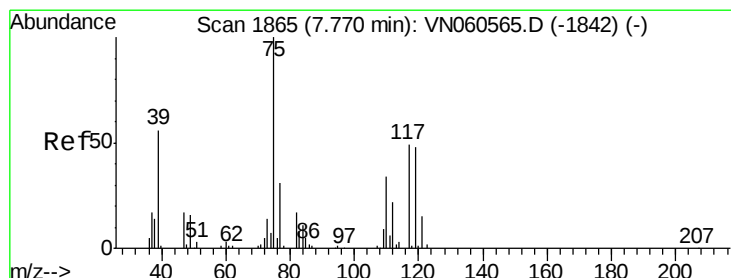
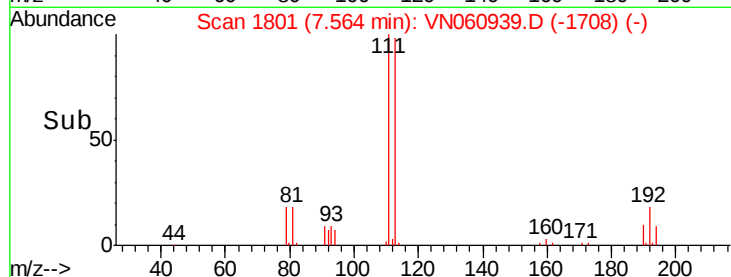
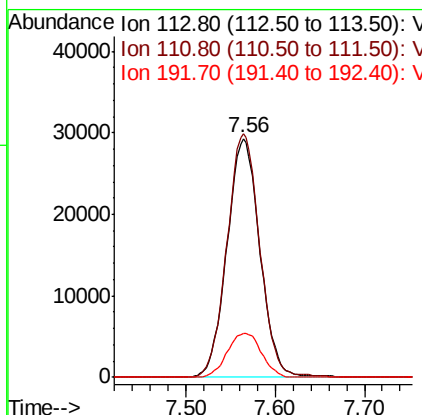
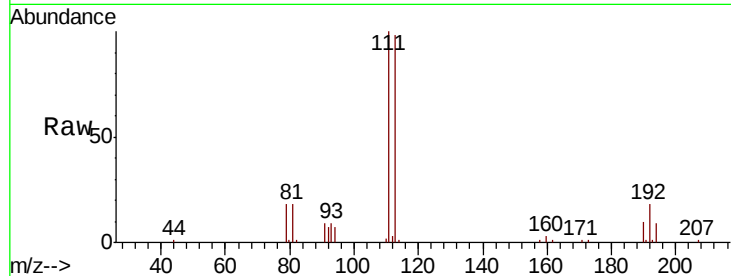




#35
 Dibromofluoromethane
 Concen: 48.803 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060939.D
 Acq: 14 Apr 2020 17:23

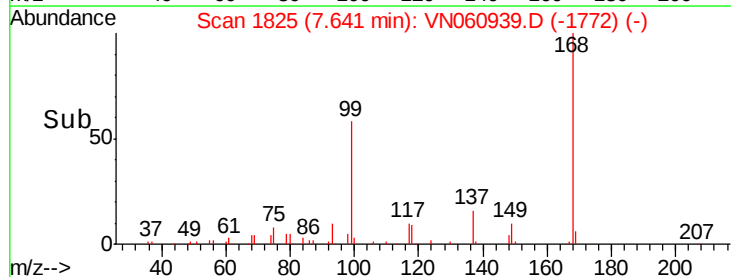
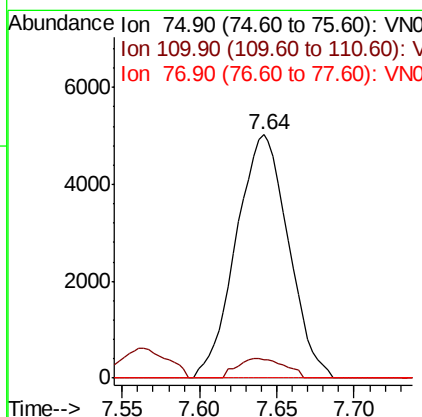
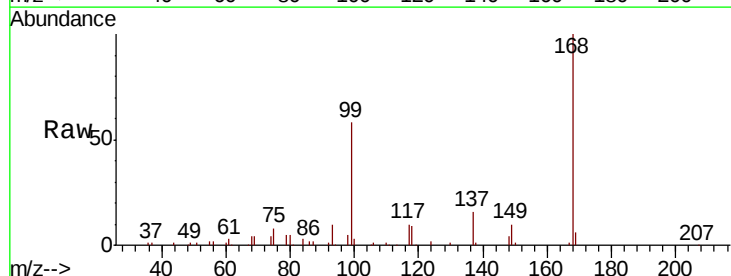
Instrument :
 MSVOA_N
 ClientSampleId :
 B-1

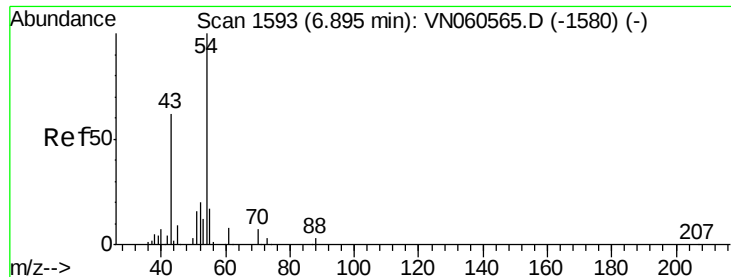
Tot Ion:113 Resp: 74583
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.9 124.3
 192 19.0 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.813 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060939.D
 Acq: 14 Apr 2020 17:23

Tgt Ion: 75 Resp: 11779
 Ion Ratio Lower Upper
 75 100
 110 7.2 16.9 50.6#
 77 0.0 24.6 36.8#

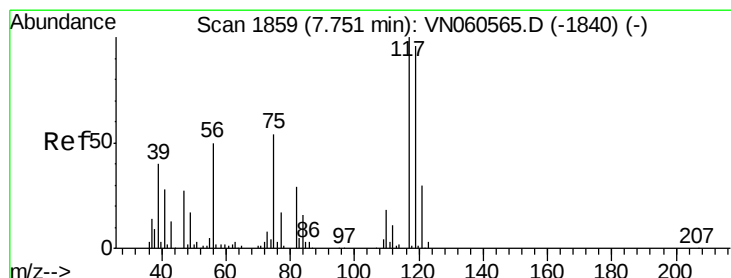
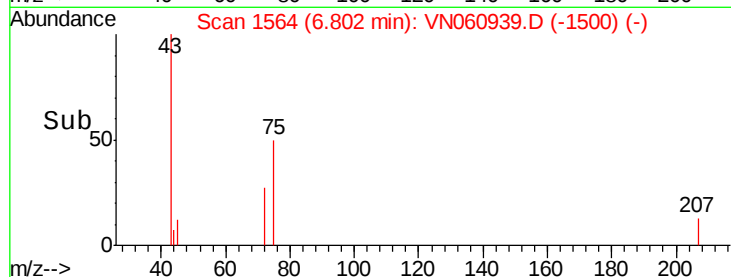
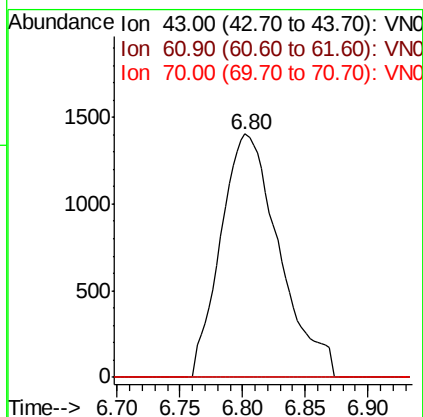
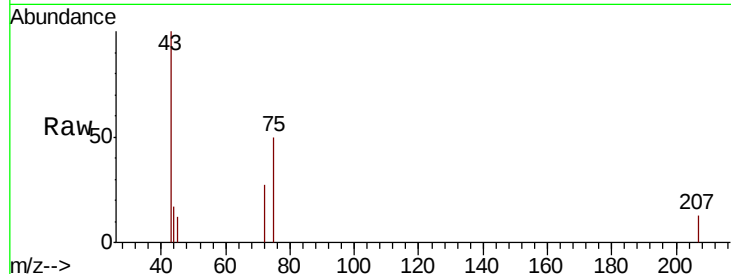




#37
Ethyl Acetate
Concen: 1.723 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. -0.09 min
Lab File: VN060939.D
Acq: 14 Apr 2020 17:23

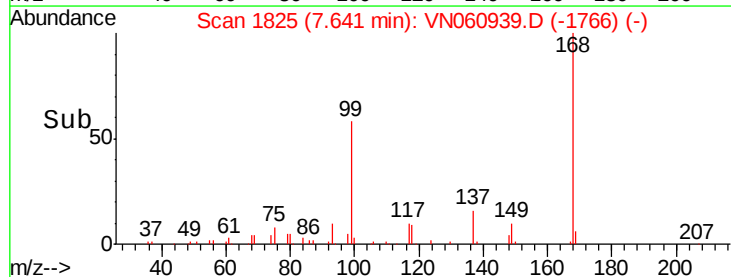
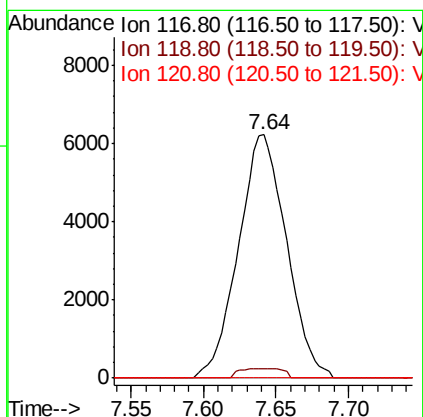
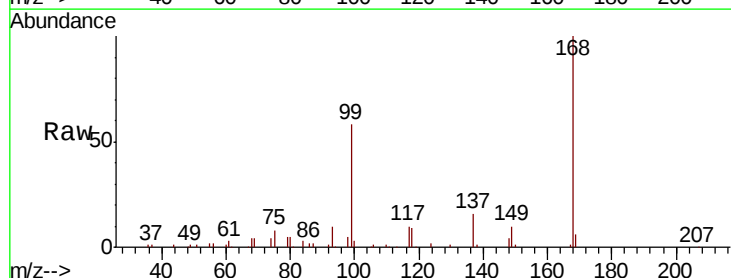
Instrument :
MSVOA_N
ClientSampled :
B-1

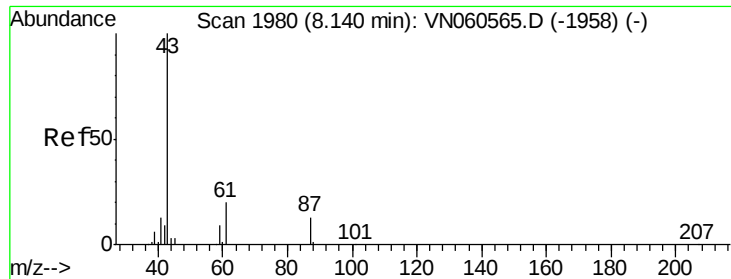
Tot Ion: 43 Resp: 4557
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.555 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060939.D
Acq: 14 Apr 2020 17:23

Tgt Ion: 117 Resp: 14377
Ion Ratio Lower Upper
117 100
119 3.6 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 9.694 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

Instrument :

MSVOA_N

ClientSampled :

B-1

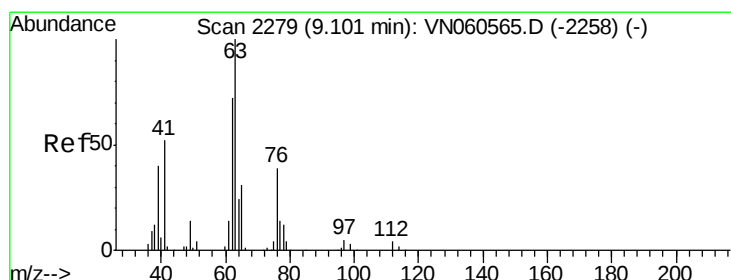
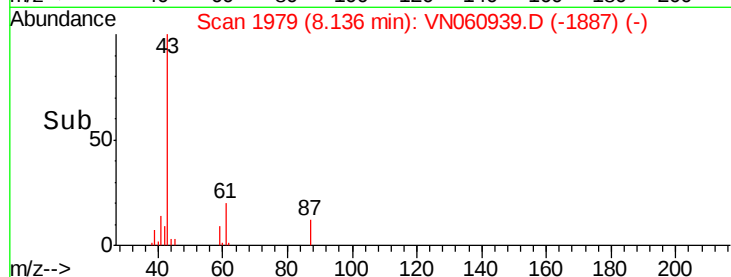
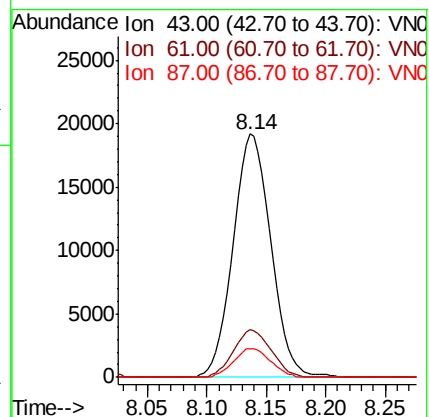
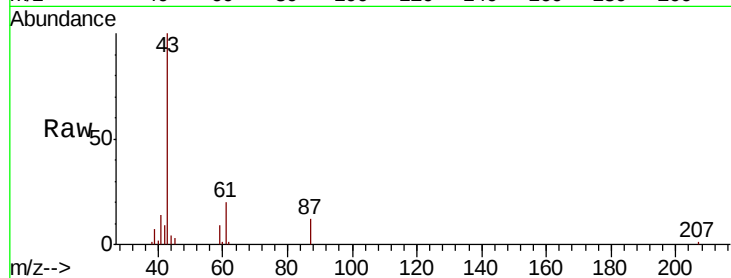
Tot Ion: 43 Resp: 42276

Ion Ratio Lower Upper

43 100

61 19.4 20.7 31.1#

87 11.5 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.355 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060939.D

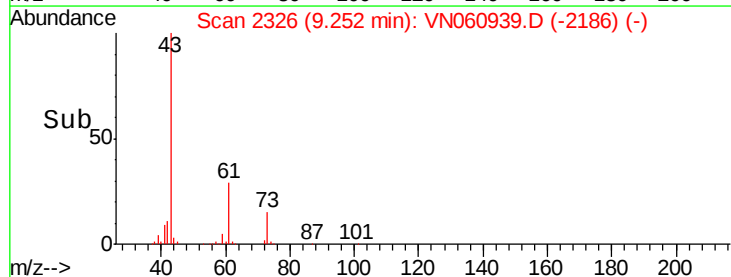
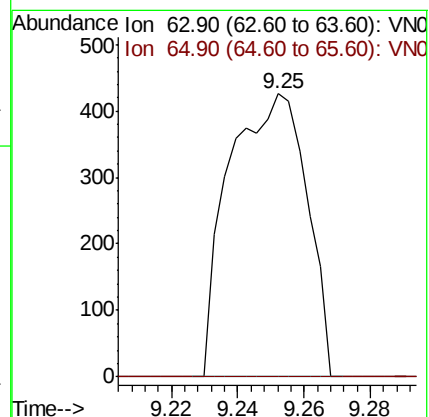
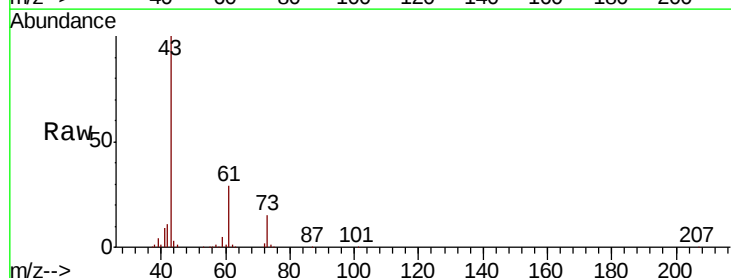
Acq: 14 Apr 2020 17:23

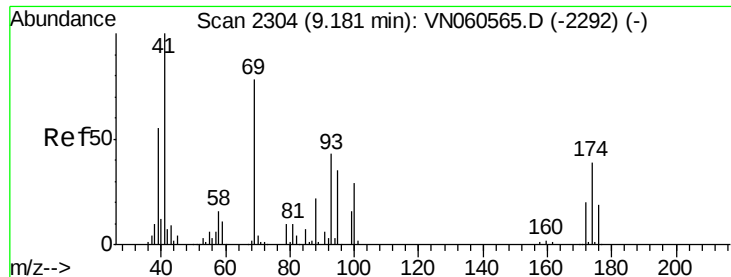
Tgt Ion: 63 Resp: 693

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

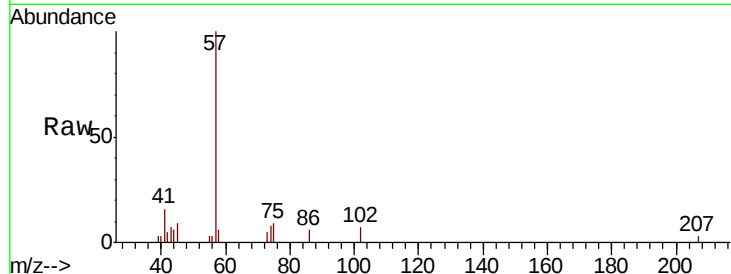




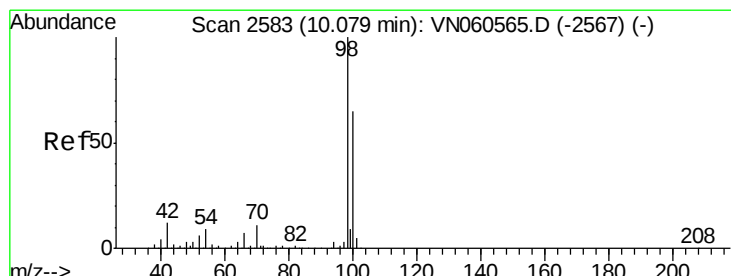
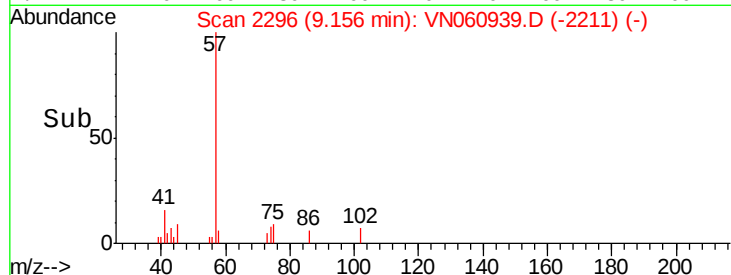
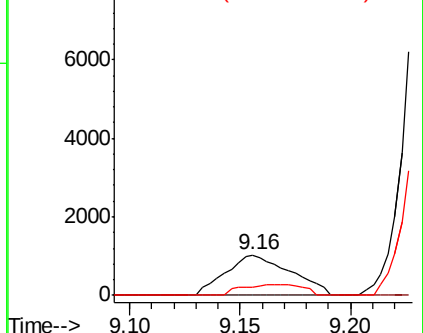
#48
Methvl methacrylate
Concen: 1.076 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060939.D
Acq: 14 Apr 2020 17:23

Instrument :
MSVOA_N
ClientSampled :
B-1

Tot Ion: 41 Resp: 2090
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

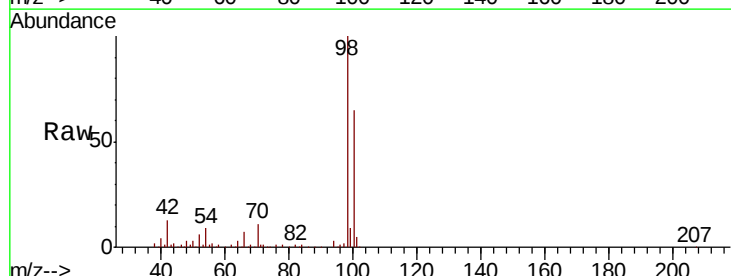


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

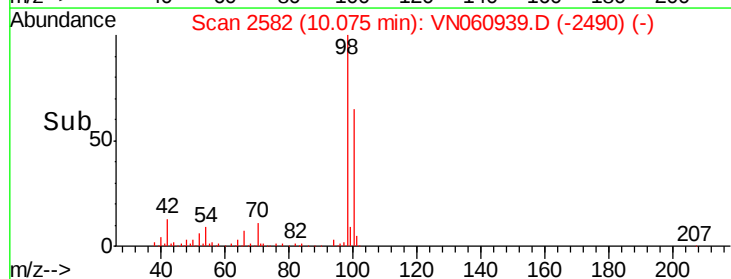
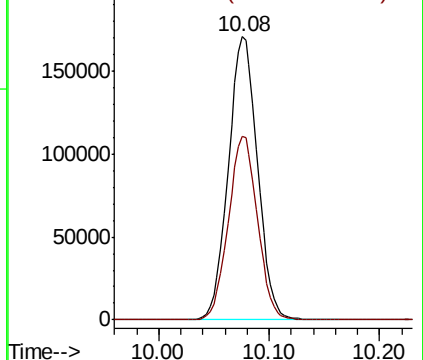


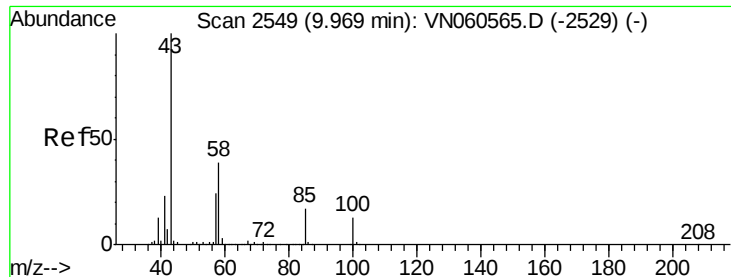
#50
Toluene-d8
Concen: 50.050 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060939.D
Acq: 14 Apr 2020 17:23

Tgt Ion: 98 Resp: 312422
Ion Ratio Lower Upper
98 100
100 64.8 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: 1.512 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

Instrument :

MSVOA_N

ClientSampled :

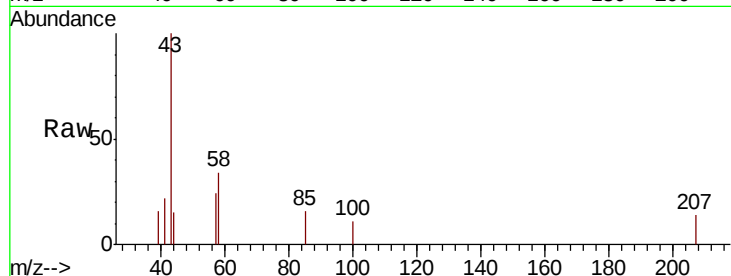
B-1

Tot Ion: 43 Resp: 3752

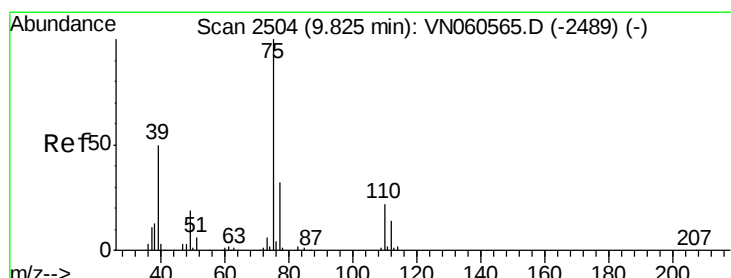
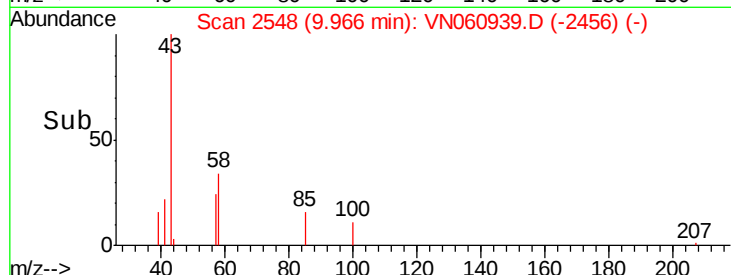
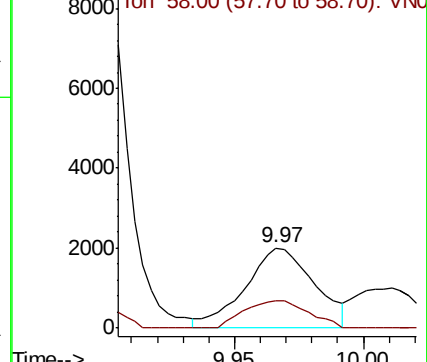
Ion Ratio Lower Upper

43 100

58 31.9 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060939.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.552 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

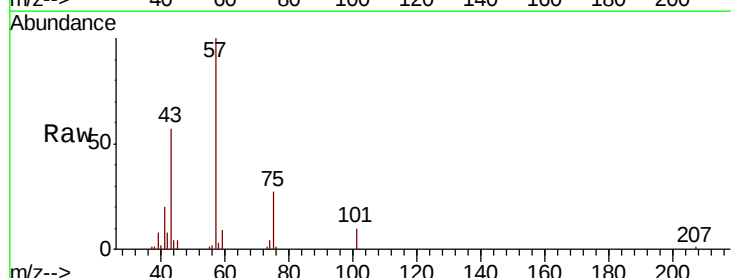
Tgt Ion: 75 Resp: 17134

Ion Ratio Lower Upper

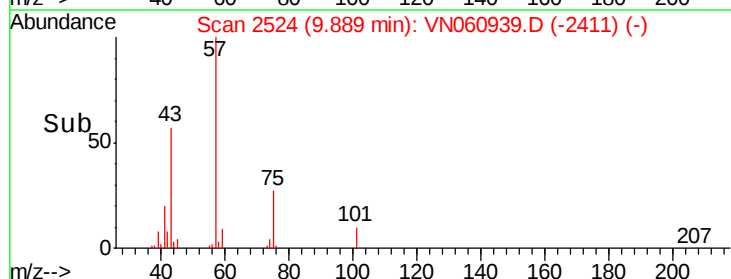
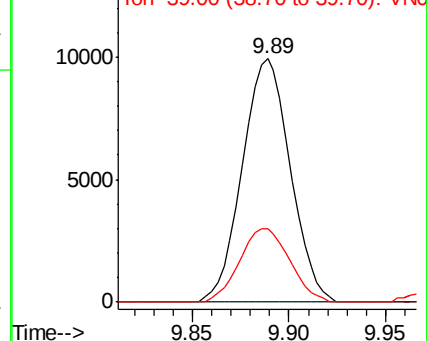
75 100

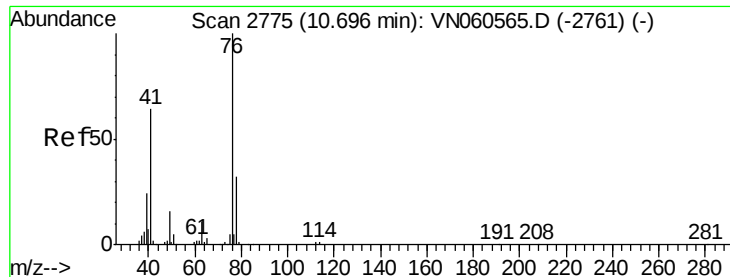
77 0.0 25.4 38.0#

39 30.2 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060939.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 0.901 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

Instrument :

MSVOA_N

ClientSampled :

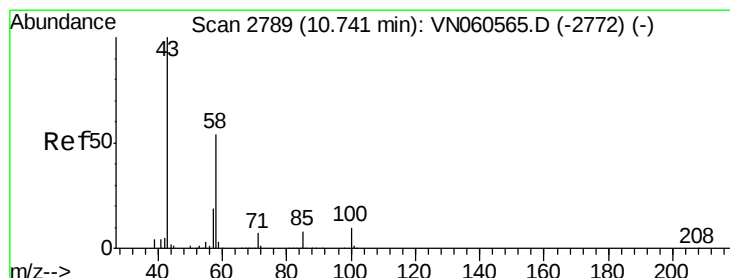
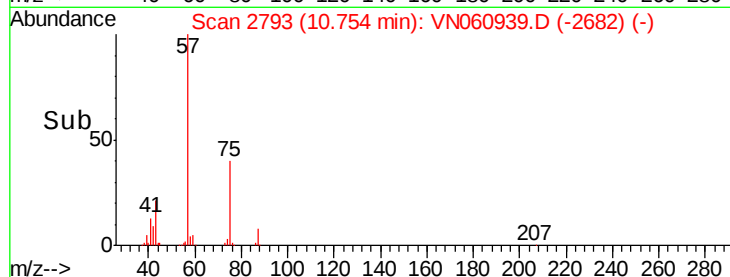
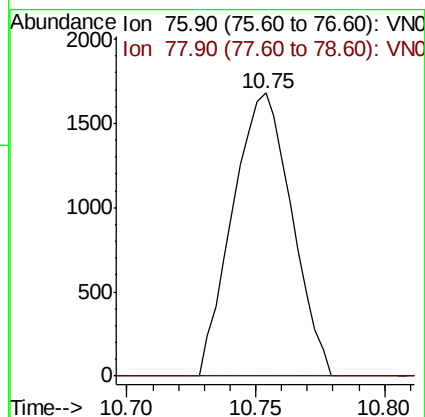
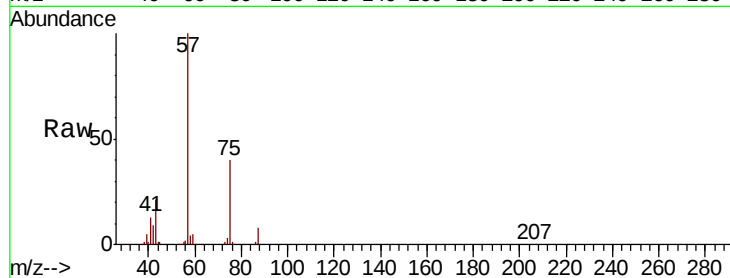
B-1

Tot Ion: 76 Resp: 2684

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 23.094 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060939.D

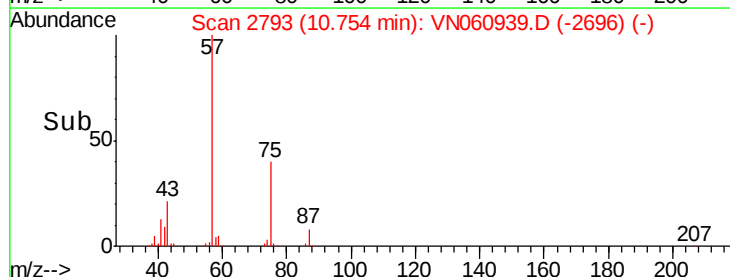
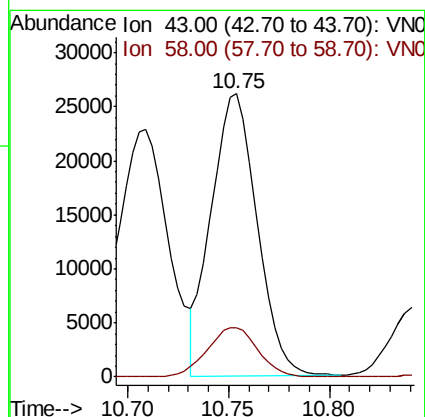
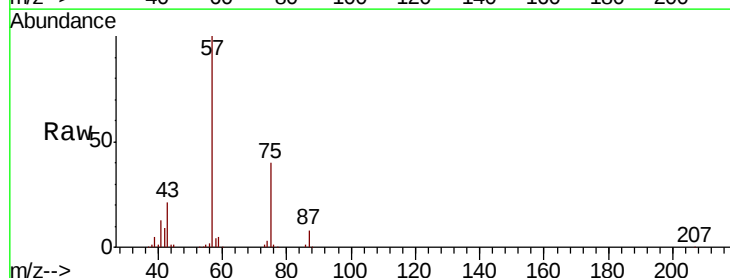
Acq: 14 Apr 2020 17:23

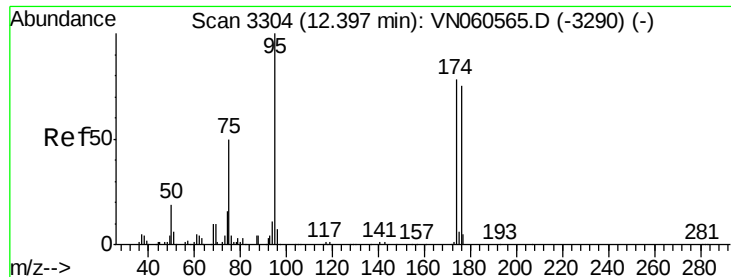
Tgt Ion: 43 Resp: 41284

Ion Ratio Lower Upper

43 100

58 19.2 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 51.456 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

Instrument :

MSVOA_N

ClientSampled :

B-1

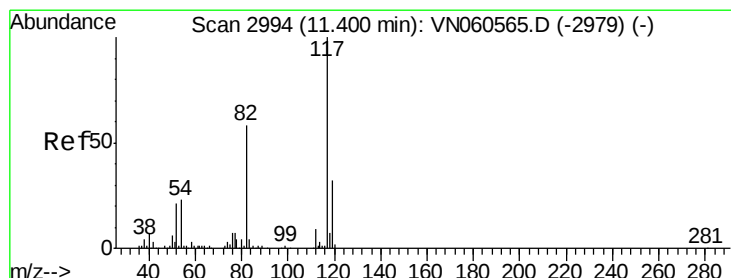
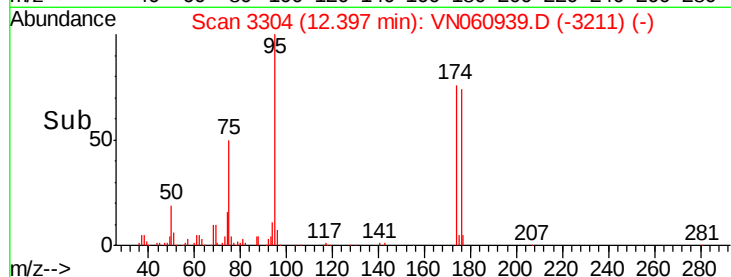
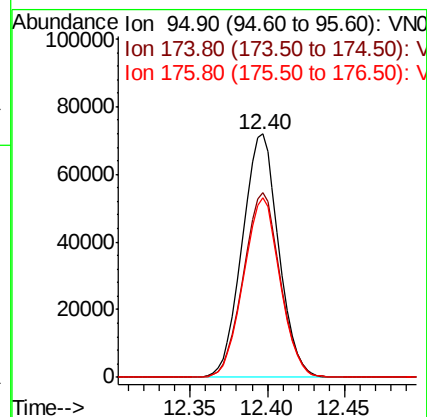
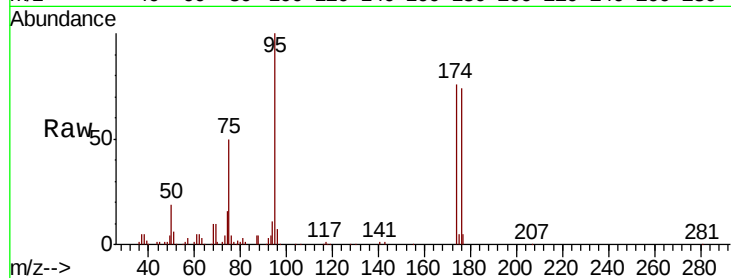
Tot Ion: 95 Resp: 117715

Ion Ratio Lower Upper

95 100

174 76.8 0.0 157.6

176 74.0 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: VN060939.D

Acq: 14 Apr 2020 17:23

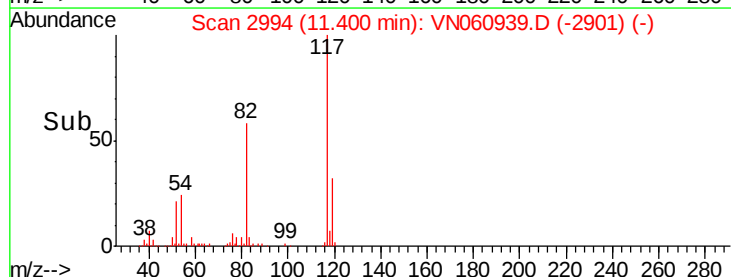
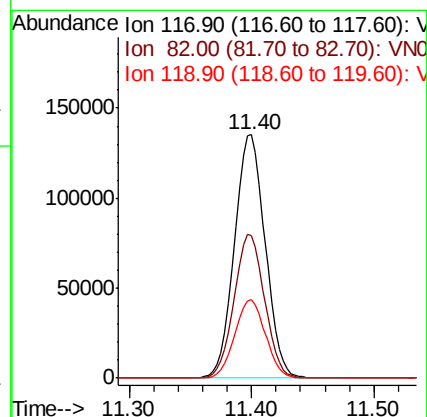
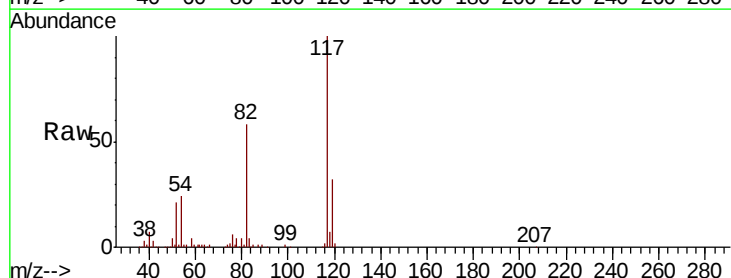
Tgt Ion: 117 Resp: 237181

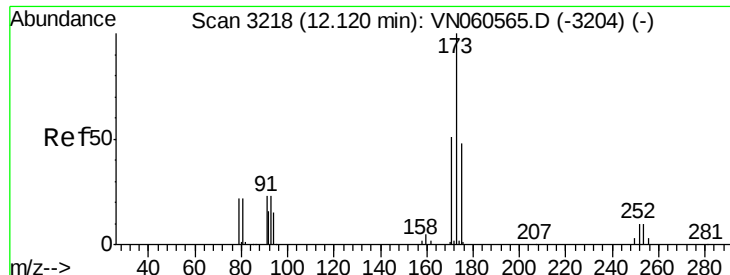
Ion Ratio Lower Upper

117 100

82 58.5 46.7 70.1

119 32.0 25.5 38.3





#71

Bromoform

Concen: 1.736 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.26 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

Instrument :

MSVOA_N

ClientSampled :

B-1

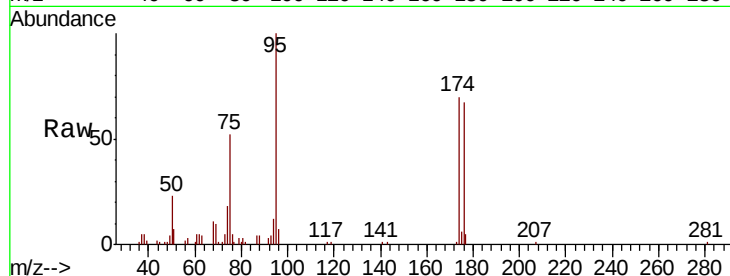
Tot Ion:173 Resp: 81

Ion Ratio Lower Upper

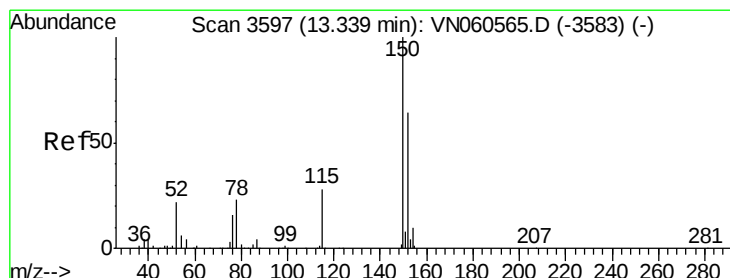
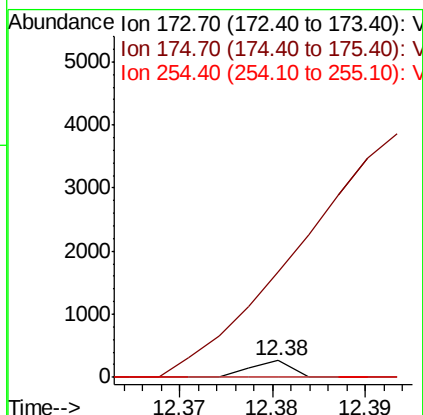
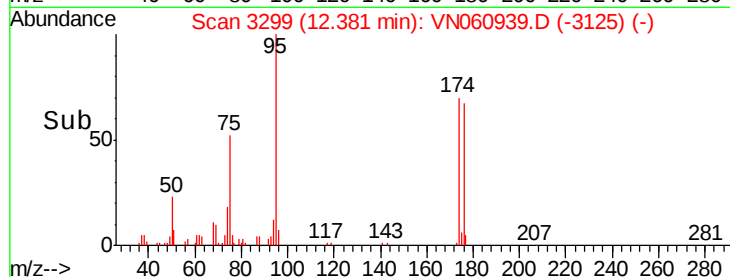
173 100

175 6928.4 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: VN060939.D

Acq: 14 Apr 2020 17:23

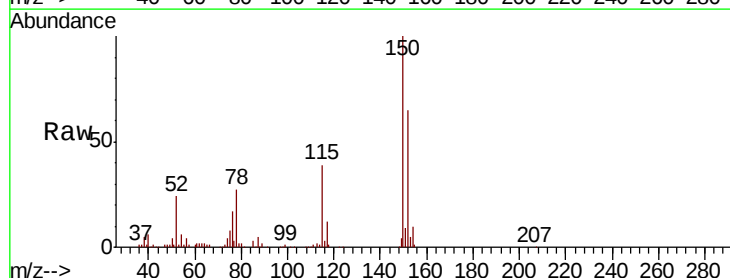
Tgt Ion:152 Resp: 107018

Ion Ratio Lower Upper

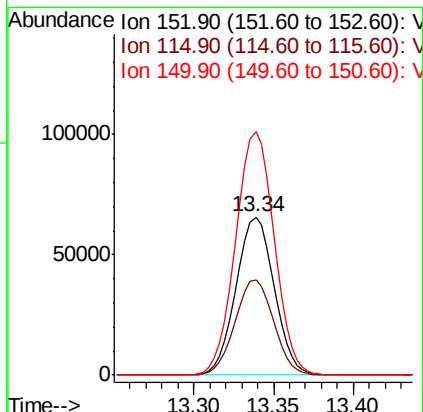
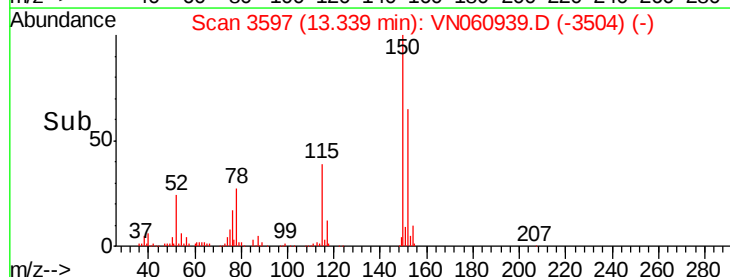
152 100

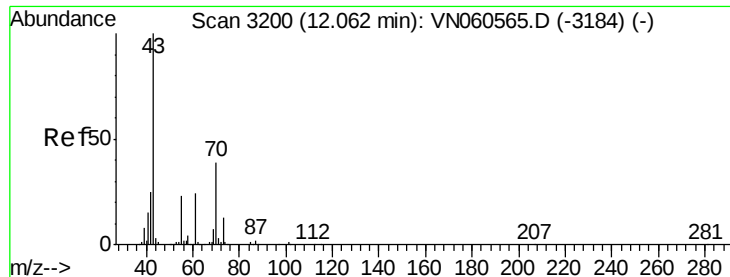
115 60.9 30.2 90.6

150 156.0 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: 0.695 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060939.D

Acq: 14 Apr 2020 17:23

Instrument :

MSVOA_N

ClientSampleId :

B-1

Tot Ion: 43 Resp: 2578

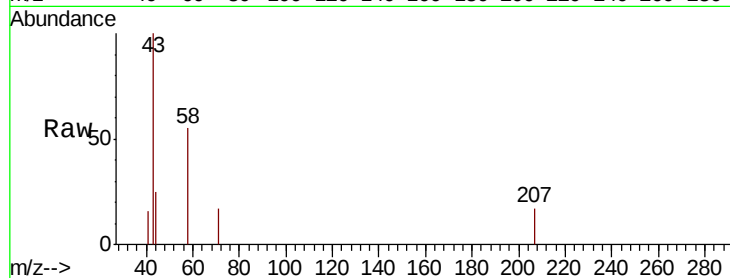
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

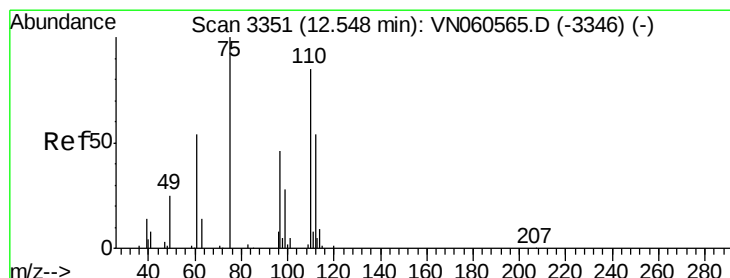
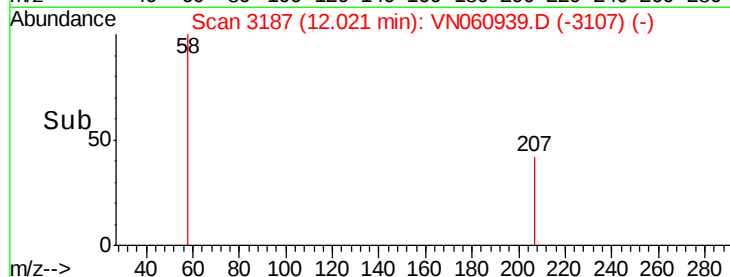
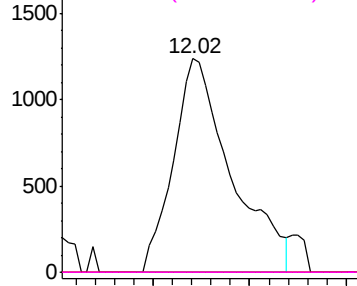


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.893 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060939.D

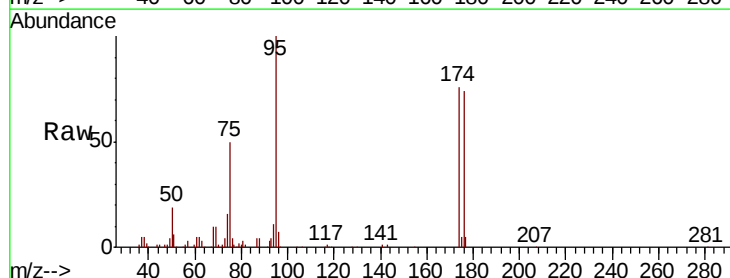
Acq: 14 Apr 2020 17:23

Tgt Ion: 75 Resp: 59793

Ion Ratio Lower Upper

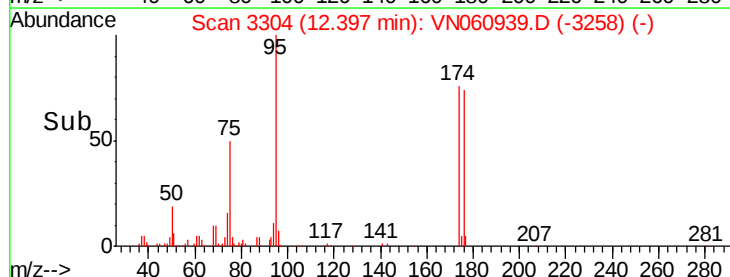
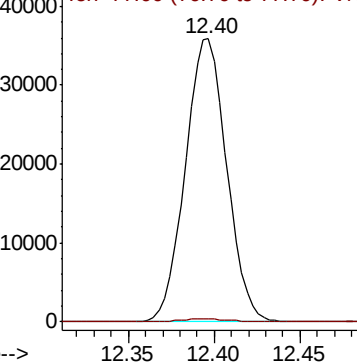
75 100

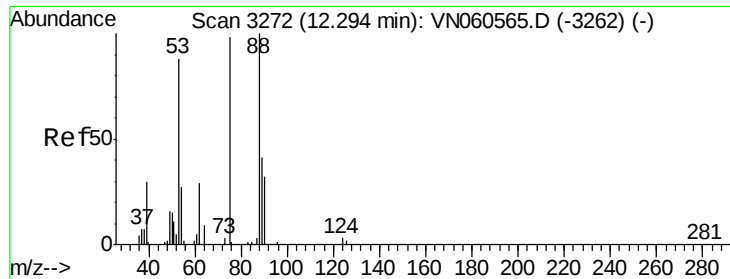
77 1.0 0.0 0.0#



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: 66.501 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060939.D
 Acq: 14 Apr 2020 17:23

Instrument :
 MSVOA_N
 ClientSampleId :
 B-1

Tot Ion: 75 Resp: 59793
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

