

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022020\
 Data File : VN060175.D
 Acq On : 20 Feb 2020 16:29
 Operator : JC/MD
 Sample : L1578-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 21 02:26:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	197893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	309630	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293322	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	132368	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	115920	48.14	ug/l	0.00
Spiked Amount						
			Recovery	=	96.28%	
35) Dibromofluoromethane	7.57	113	93394	49.07	ug/l	0.00
Spiked Amount						
			Recovery	=	98.14%	
50) Toluene-d8	10.08	98	378578	50.51	ug/l	0.00
Spiked Amount						
			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	12.40	95	136874	49.70	ug/l	0.00
Spiked Amount						
			Recovery	=	99.40%	

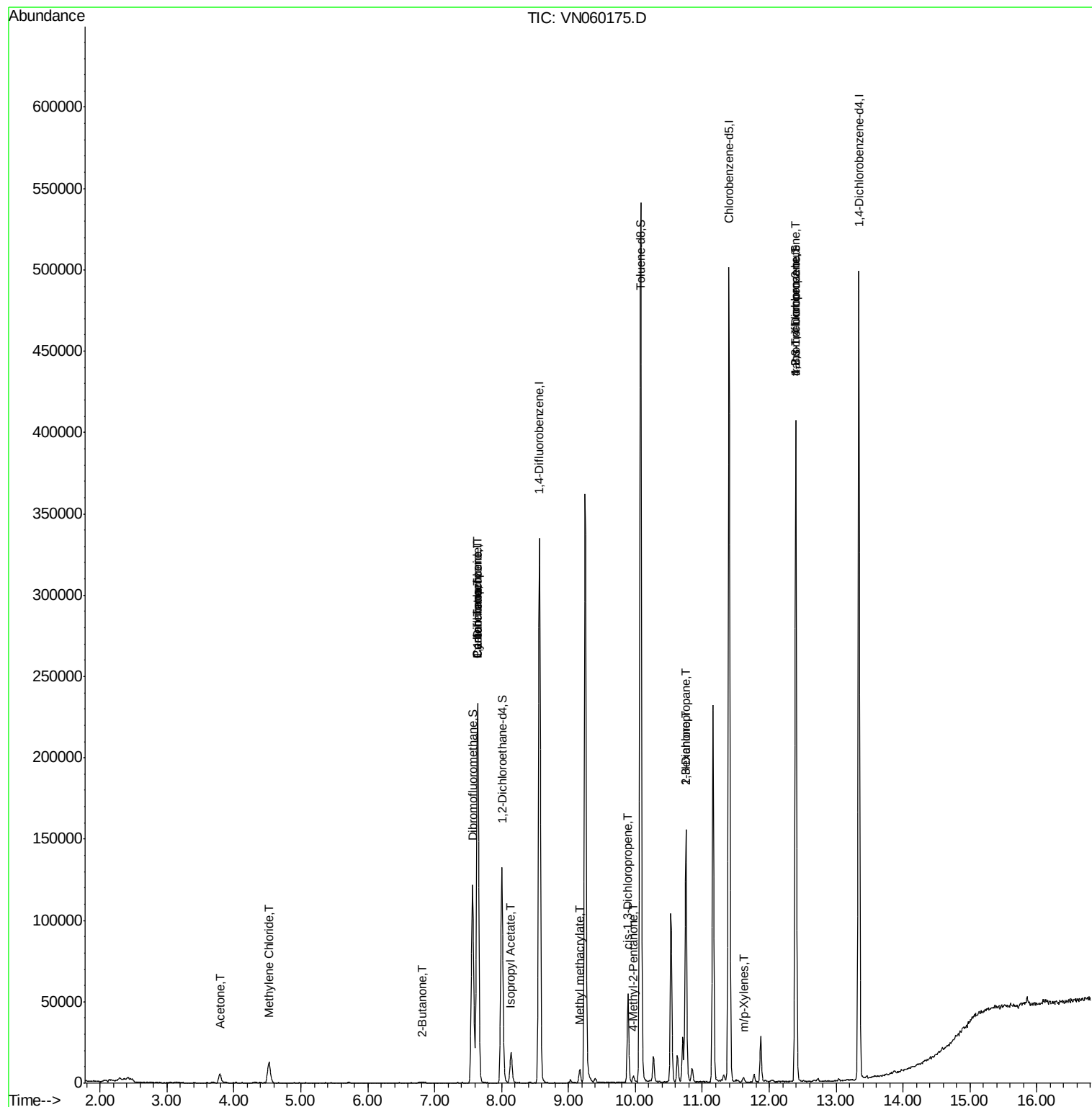
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	10504	10.000	ug/l	93
20) Methylene Chloride	4.53	84	10392	4.959	ug/l	95
25) 2-Butanone	6.81	43	1316	0.996	ug/l #	46
31) Cyclohexane	7.64	56	3949	1.160	ug/l #	6
36) 1,1-Dichloropropene	7.64	75	14238	4.965	ug/l #	49
38) Carbon Tetrachloride	7.64	117	18315	5.880	ug/l #	15
43) Isopropyl Acetate	8.14	43	22774	5.140	ug/l #	90
48) Methyl methacrylate	9.17	41	1114	0.560	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	2410	0.940	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	10168	2.827	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	1550	0.441	ug/l #	43
59) 2-Hexanone	10.75	43	23874	12.051	ug/l #	51
68) m/p-Xylenes	11.62	106	937	0.232	ug/l	80
76) 1,2,3-Trichloropropane	12.40	75	69755	27.544	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	69755	67.442	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.27	75	245	Below Cal	#	1

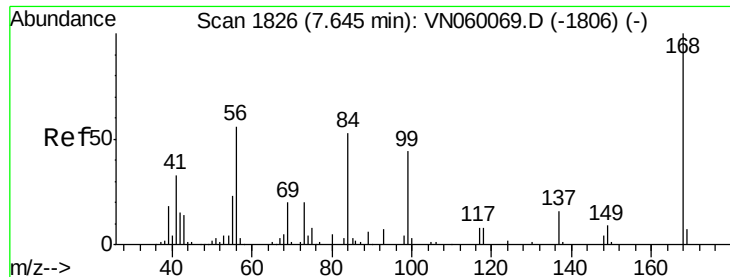
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
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QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060175.D

Acq: 20 Feb 2020 16:29

Instrument :

MSVOA_N

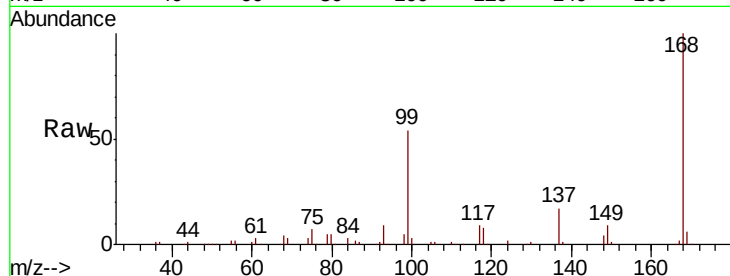
ClientSampleId :

Tot Ion:168 Resp: 197893

Ion Ratio Lower Upper

168 100

99 53.8 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): VN060069.D (-1806) (-)

Ion 98.90 (98.60 to 99.60): VN060069.D (-1806) (-)

7.64

80000

60000

40000

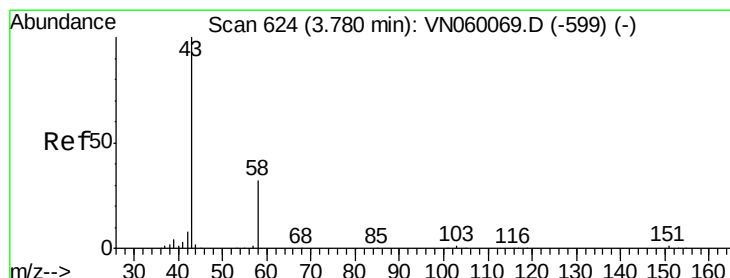
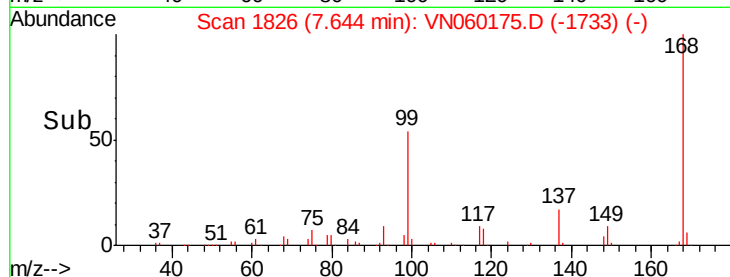
20000

0

7.60

7.70

Time-->



#16

Acetone

Concen: 10.000 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060175.D

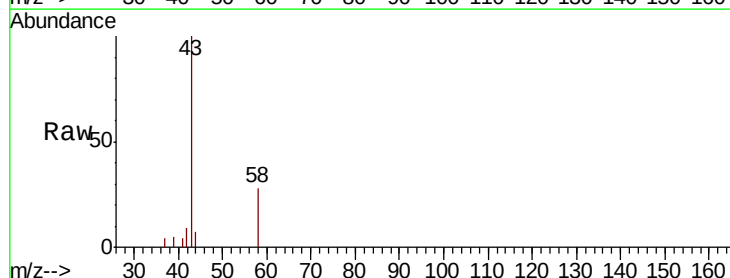
Acq: 20 Feb 2020 16:29

Tgt Ion: 43 Resp: 10504

Ion Ratio Lower Upper

43 100

58 27.6 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-599) (-)

3.79

4000

3000

2000

1000

0

3.70

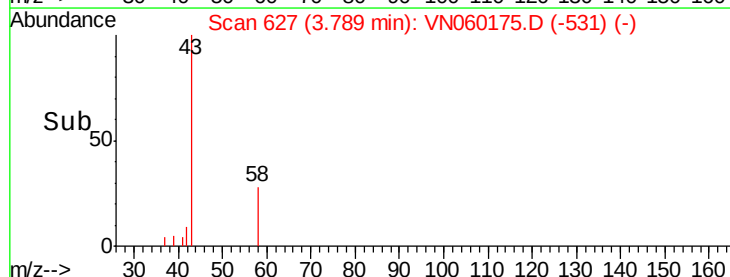
3.75

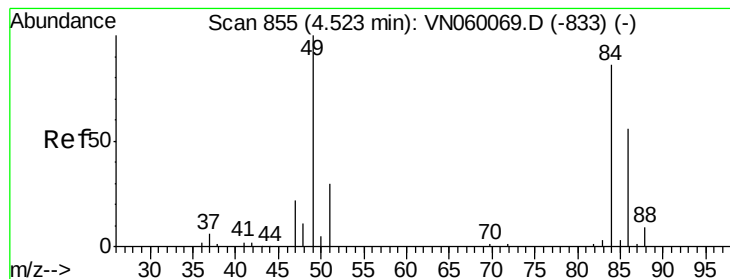
3.80

3.85

3.90

Time-->





#20

Methvlene Chloride

Concen: 4.959 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

Lab File: VN060175.D

Acq: 20 Feb 2020 16:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 10392

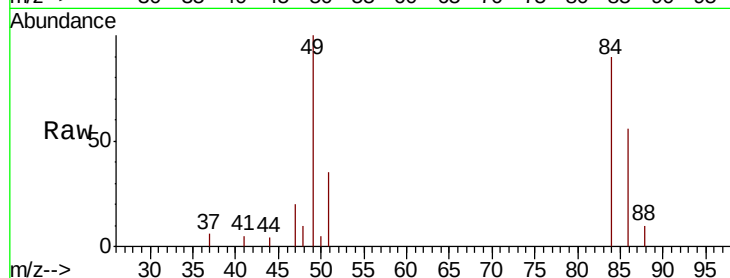
Ion Ratio Lower Upper

84 100

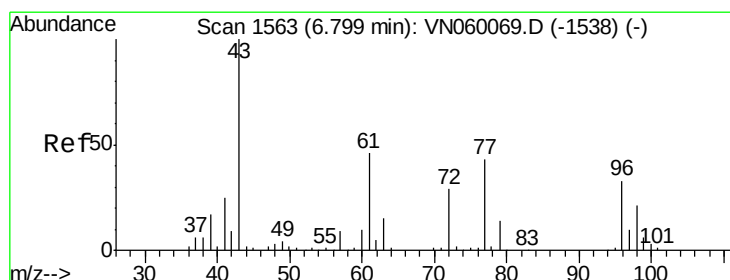
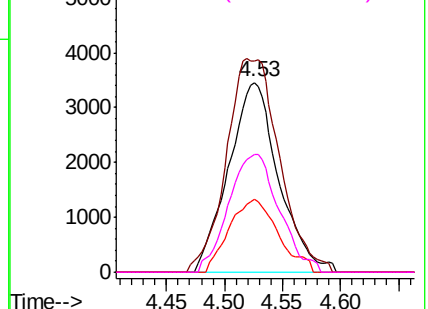
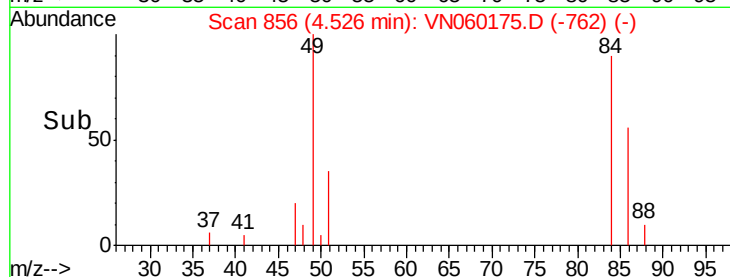
49 111.2 93.4 140.0

51 38.5 28.4 42.6

86 62.3 52.5 78.7



Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.996 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VN060175.D

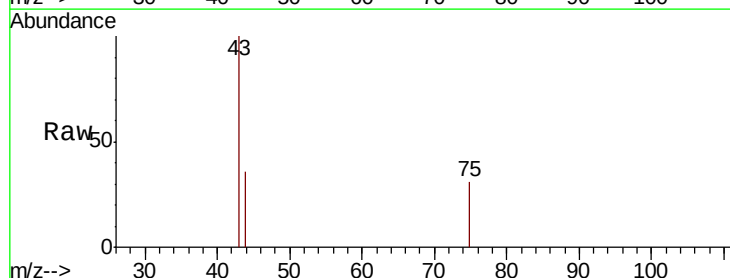
Acq: 20 Feb 2020 16:29

Tgt Ion: 43 Resp: 1316

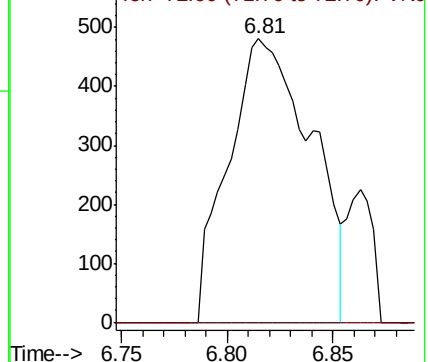
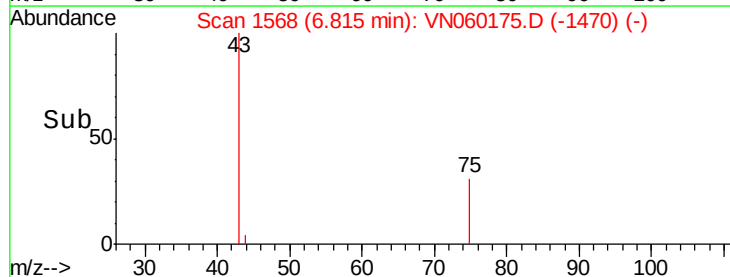
Ion Ratio Lower Upper

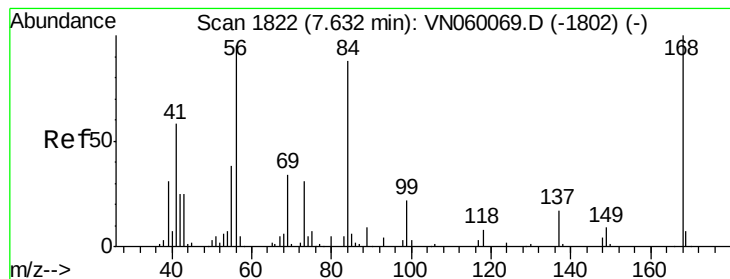
43 100

72 0.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 1.160 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060175.D

Acq: 20 Feb 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

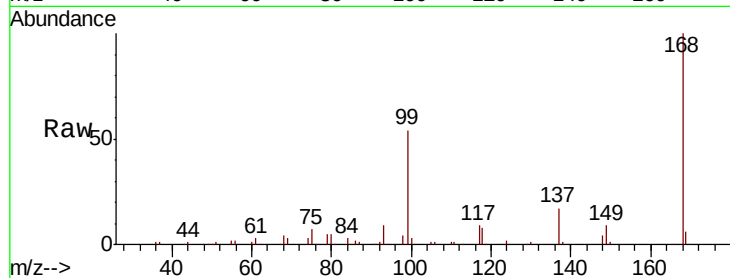
Tot Ion: 56 Resp: 3949

Ion Ratio Lower Upper

56 100

69 169.0 28.3 42.5#

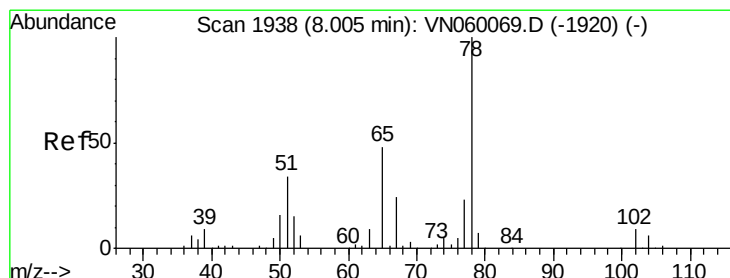
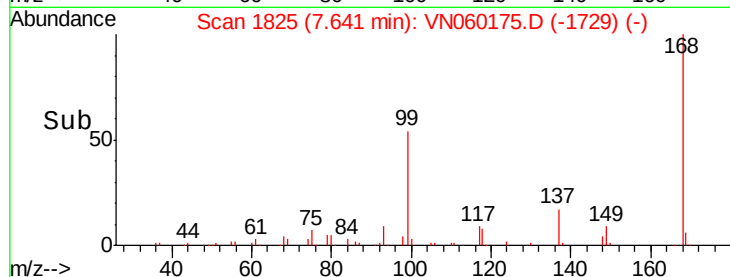
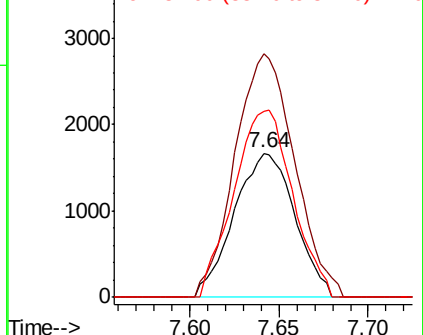
84 129.5 72.6 108.8#



Abundance Ion 56.00 (55.70 to 56.70): VN060069.D (-1802) (-)

Ion 69.00 (68.70 to 69.70): VN060069.D (-1802) (-)

Ion 84.00 (83.70 to 84.70): VN060069.D (-1802) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.139 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060175.D

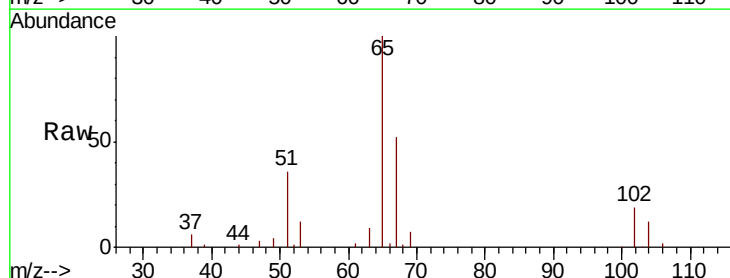
Acq: 20 Feb 2020 16:29

Tgt Ion: 65 Resp: 115920

Ion Ratio Lower Upper

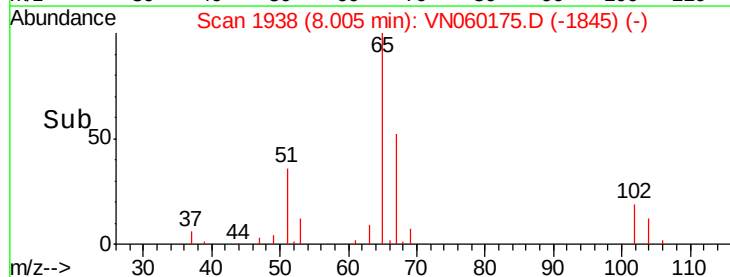
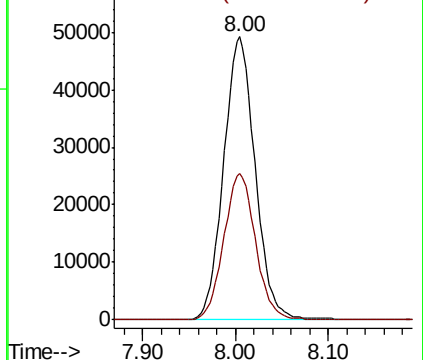
65 100

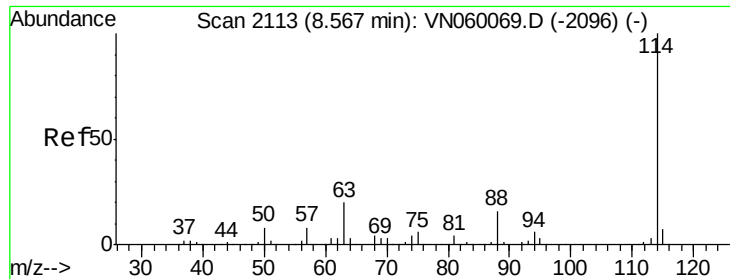
67 52.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060069.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060069.D (-1920) (-)

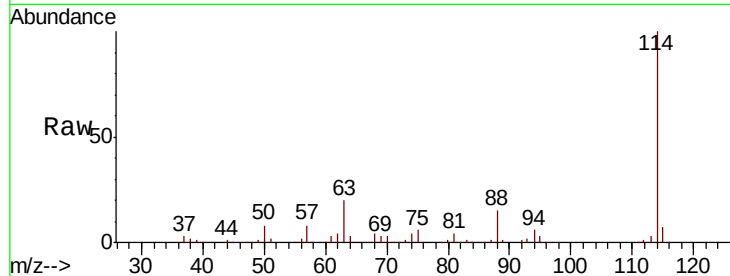




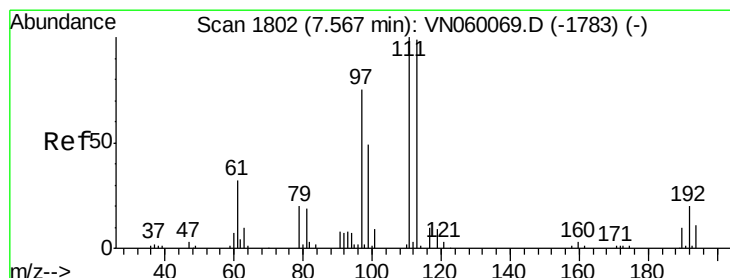
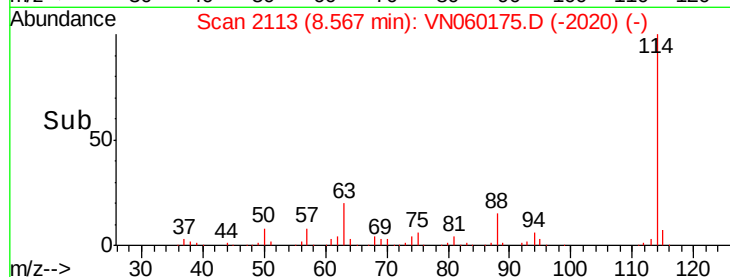
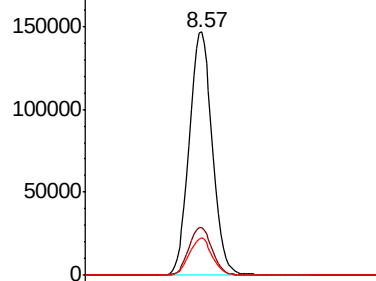
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060175.D
 Acq: 20 Feb 2020 16:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 309630
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.2 0.0 31.6

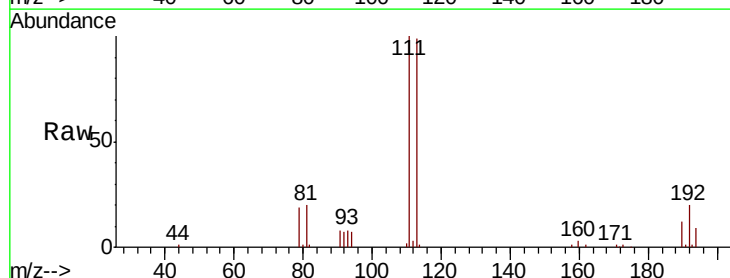


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

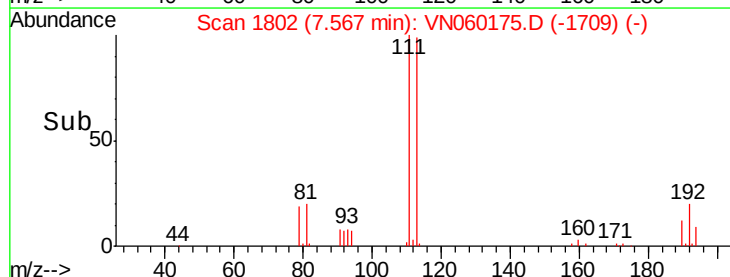
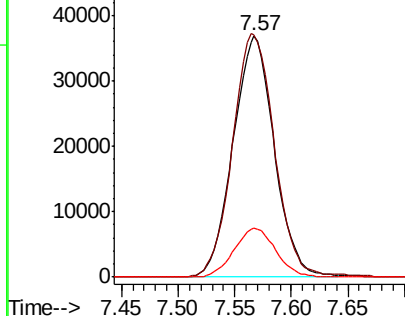


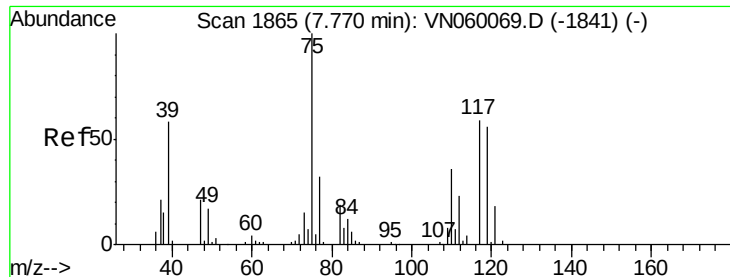
#35
 Dibromofluoromethane
 Concen: 49.070 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060175.D
 Acq: 20 Feb 2020 16:29

Tgt Ion:113 Resp: 93394
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.4 122.2
 192 20.4 16.2 24.2



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

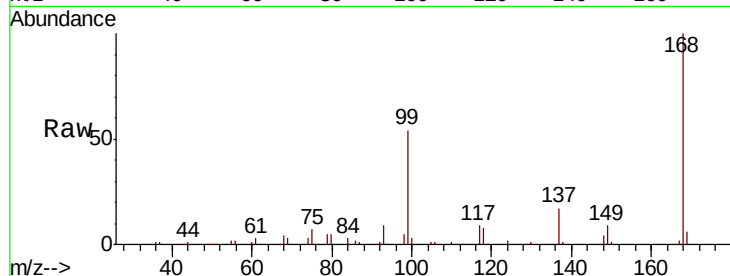




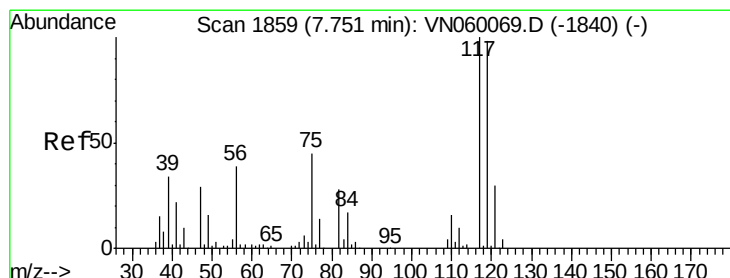
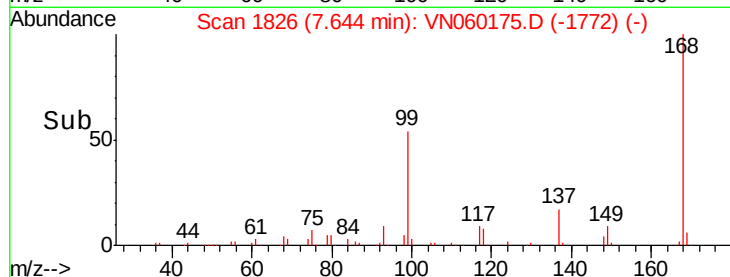
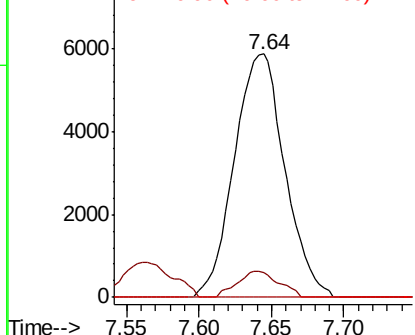
#36
 1,1-Dichloropropene
 Concen: 4.965 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060175.D
 Acq: 20 Feb 2020 16:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	14238
Ion Ratio	Lower	Upper	
75	100		
110	8.8	18.1	54.3#
77	0.0	25.1	37.7#

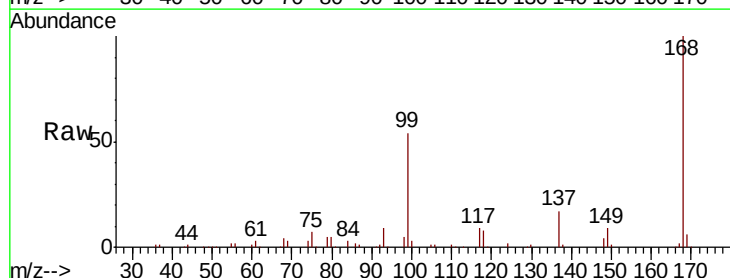


Abundance Ion 74.90 (74.60 to 75.60): VN060175.D (-1772) (-)
 Ion 109.90 (109.60 to 110.60): VN060175.D (-1772) (-)
 Ion 76.90 (76.60 to 77.60): VN060175.D (-1772) (-)

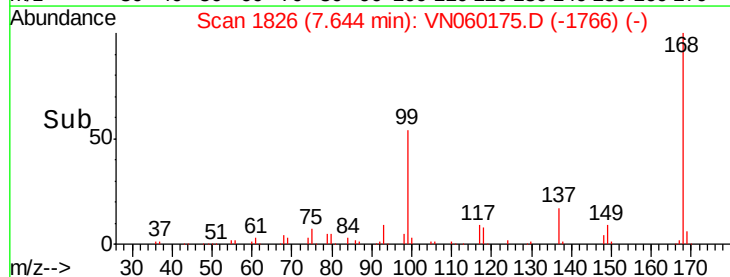
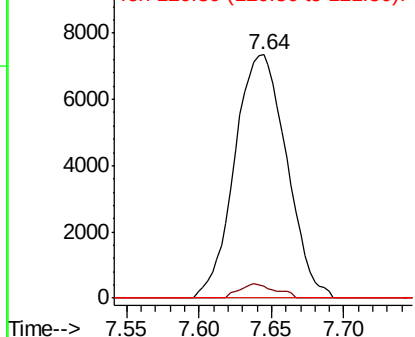


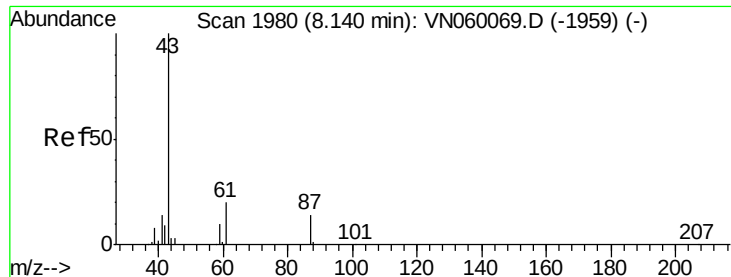
#38
 Carbon Tetrachloride
 Concen: 5.880 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060175.D
 Acq: 20 Feb 2020 16:29

Tgt Ion	117	Resp	18315
Ion Ratio	Lower	Upper	
117	100		
119	4.8	78.2	117.4#
121	0.0	24.2	36.2#



Abundance Ion 116.80 (116.50 to 117.50): VN060175.D (-1766) (-)
 Ion 118.80 (118.50 to 119.50): VN060175.D (-1766) (-)
 Ion 120.80 (120.50 to 121.50): VN060175.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 5.140 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060175.D

Acq: 20 Feb 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

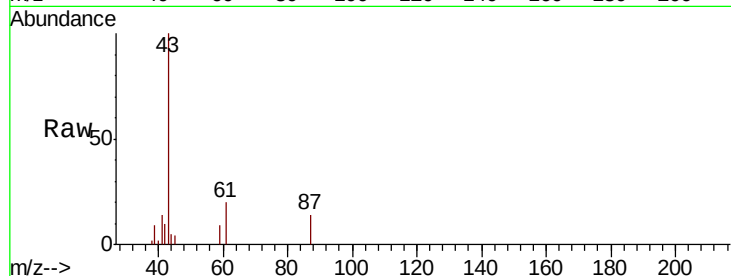
Tot Ion: 43 Resp: 22774

Ion Ratio Lower Upper

43 100

61 19.8 21.8 32.6#

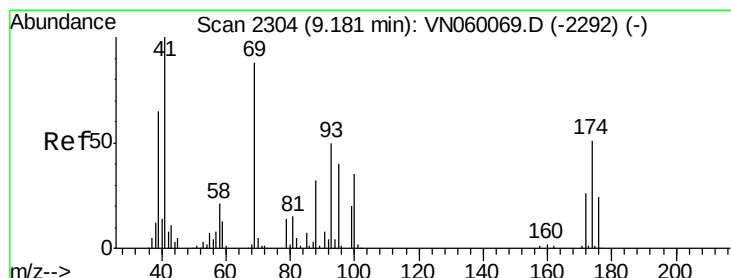
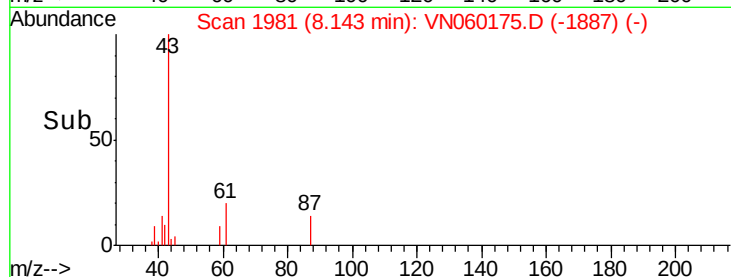
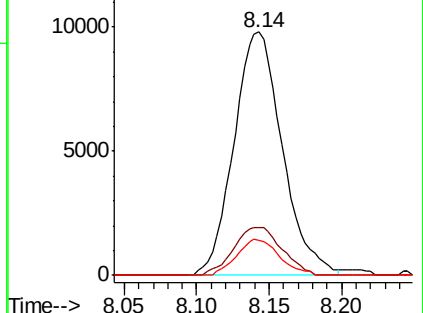
87 13.0 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060069.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060069.D (-1959) (-)



#48

Methyl methacrylate

Concen: 0.560 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.01 min

Lab File: VN060175.D

Acq: 20 Feb 2020 16:29

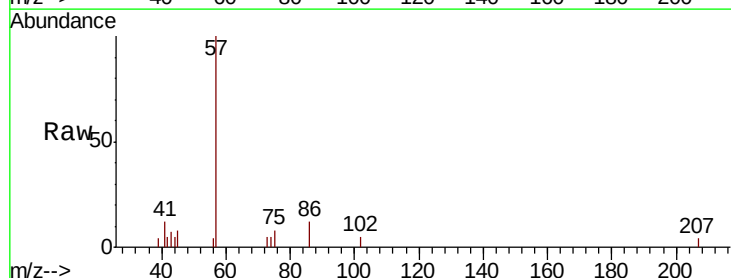
Tgt Ion: 41 Resp: 1114

Ion Ratio Lower Upper

41 100

69 0.0 72.0 108.0#

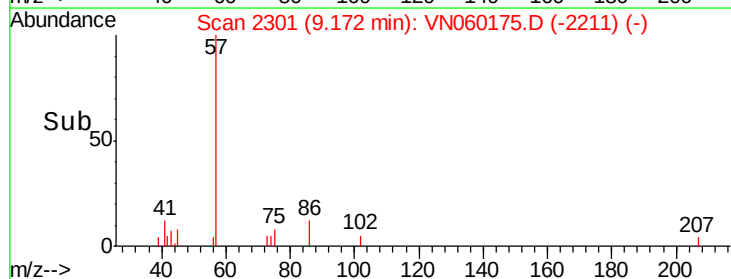
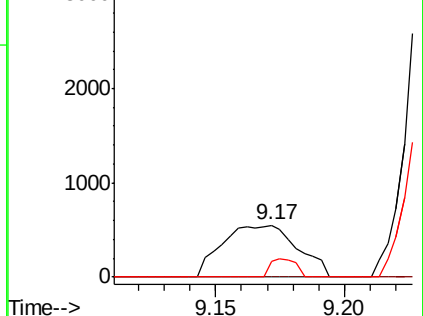
39 0.0 54.1 81.1#

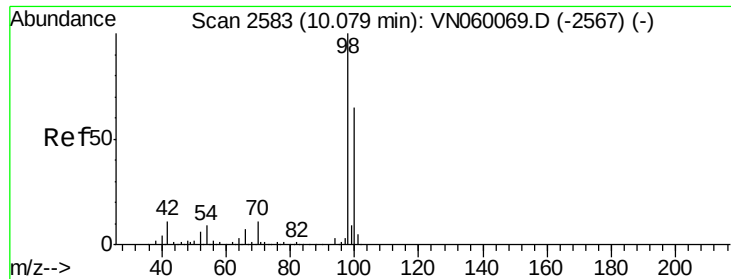


Abundance Ion 41.00 (40.70 to 41.70): VN060069.D (-2292) (-)

Ion 69.00 (68.70 to 69.70): VN060069.D (-2292) (-)

Ion 39.00 (38.70 to 39.70): VN060069.D (-2292) (-)





#50

Toluene-d8

Concen: 50.510 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060175.D

Acq: 20 Feb 2020 16:29

Instrument :

MSVOA_N

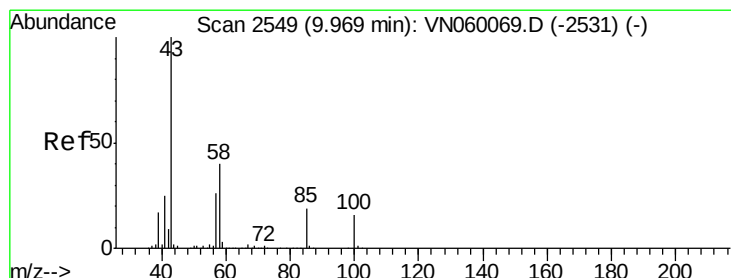
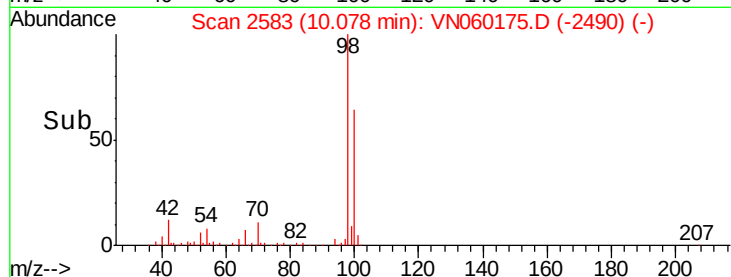
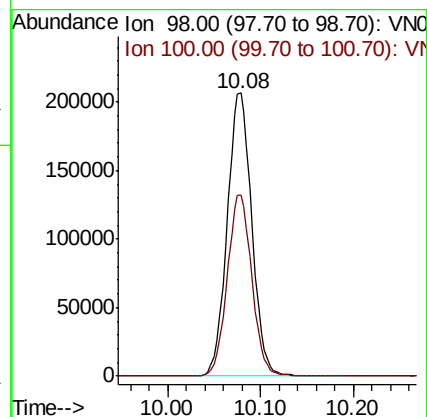
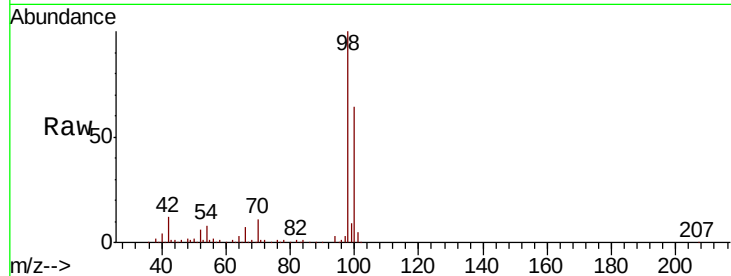
ClientSampleId :

Tot Ion: 98 Resp: 378578

Ion Ratio Lower Upper

98 100

100 64.0 51.7 77.5



#51

4-Methyl-2-Pentanone

Concen: 0.940 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060175.D

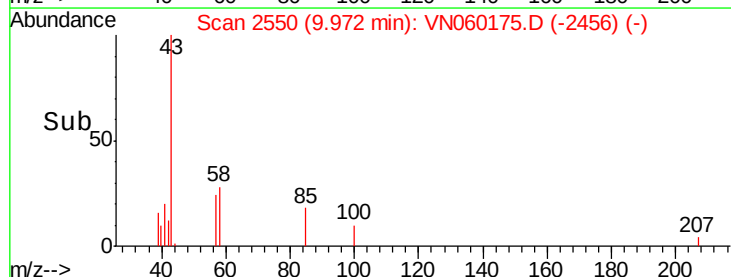
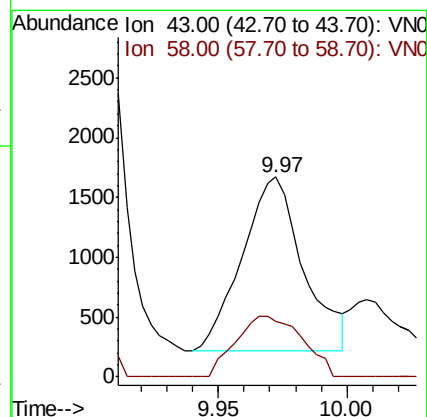
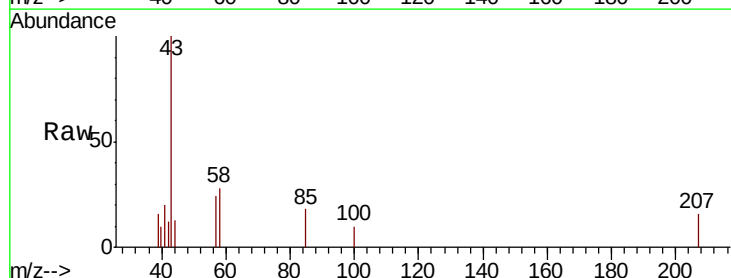
Acq: 20 Feb 2020 16:29

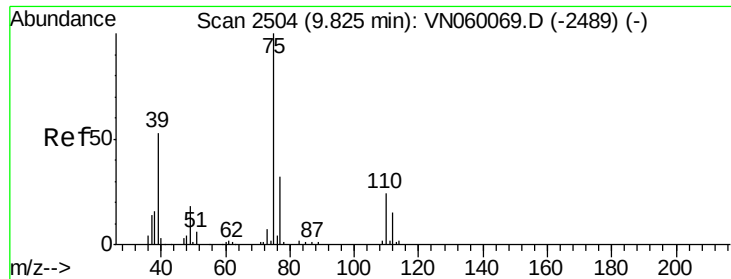
Tgt Ion: 43 Resp: 2410

Ion Ratio Lower Upper

43 100

58 38.0 31.8 47.8





#54

cis-1,3-Dichloropropene

Concen: 2.827 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060175.D

Acq: 20 Feb 2020 16:29

Instrument :

MSVOA_N

ClientSampleId :

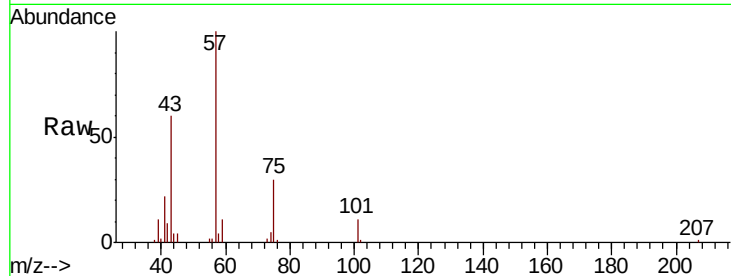
Tot Ion: 75 Resp: 10168

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

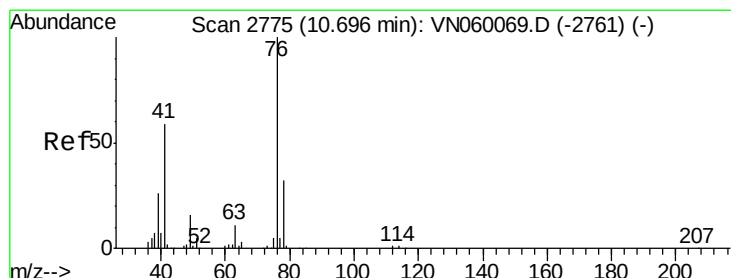
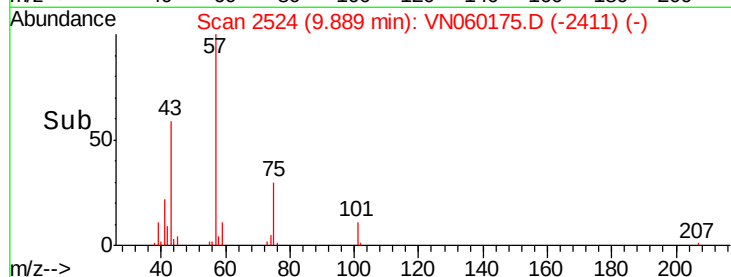
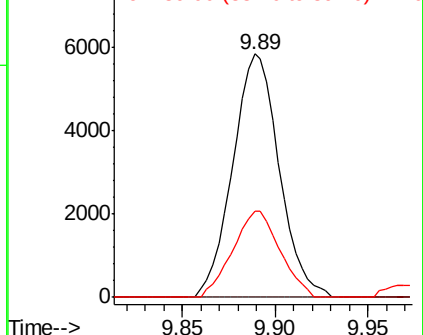
39 35.6 42.2 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060069.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060069.D (-2489) (-)



#57

1,3-Dichloropropane

Concen: 0.441 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060175.D

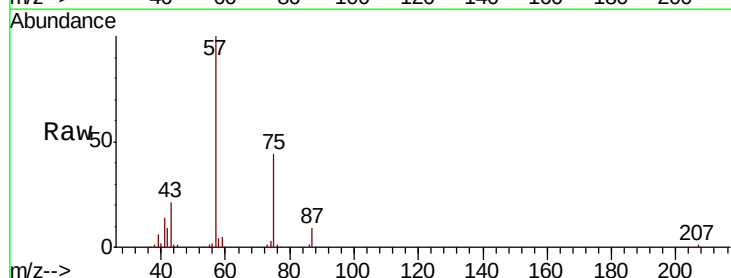
Acq: 20 Feb 2020 16:29

Tgt Ion: 76 Resp: 1550

Ion Ratio Lower Upper

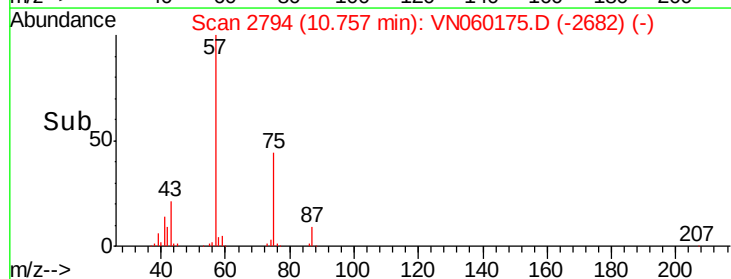
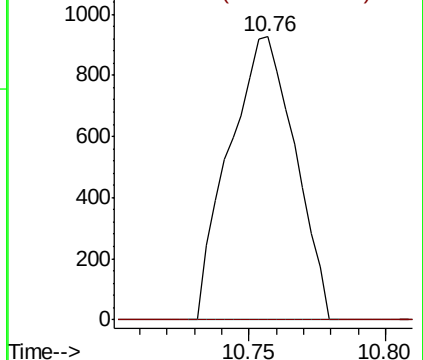
76 100

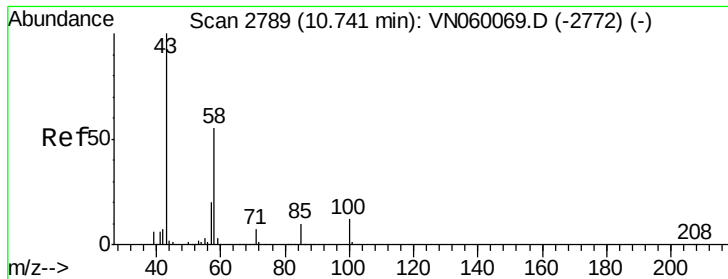
78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN060069.D (-2761) (-)

Ion 77.90 (77.60 to 78.60): VN060069.D (-2761) (-)

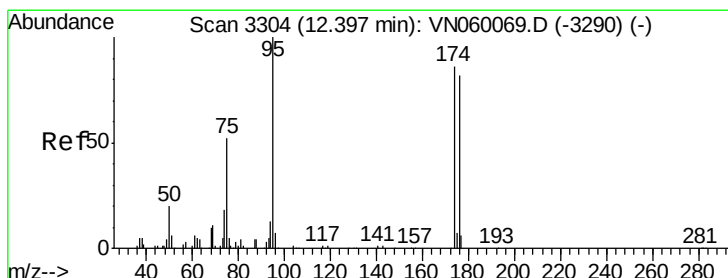
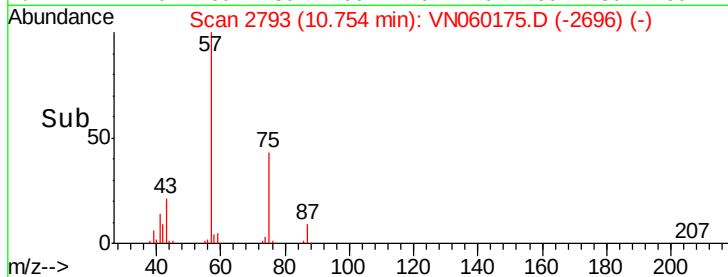
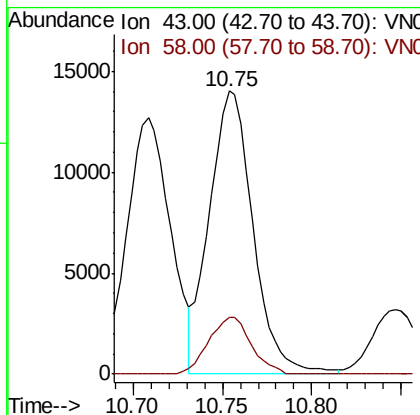
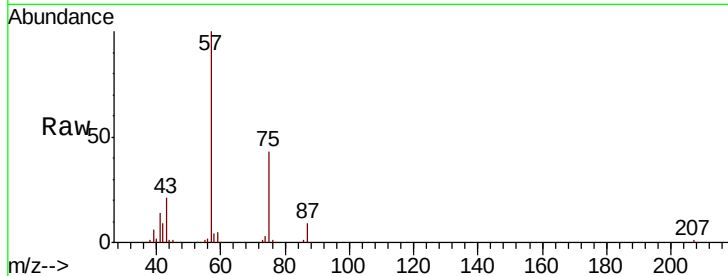




#59
2-Hexanone
Concen: 12.051 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060175.D
Acq: 20 Feb 2020 16:29

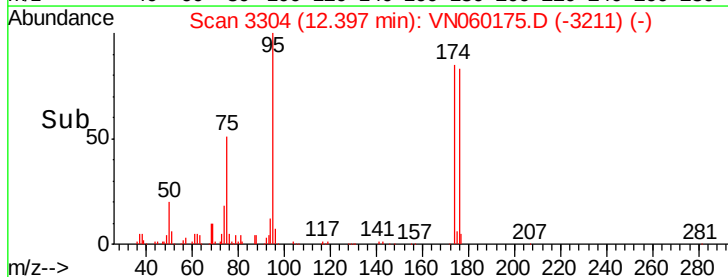
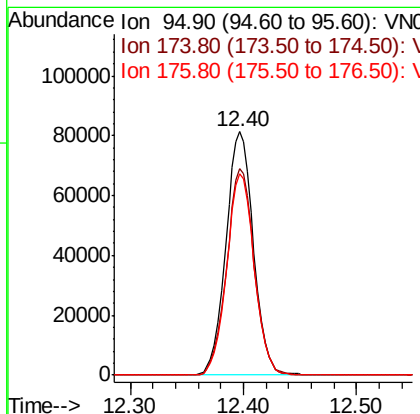
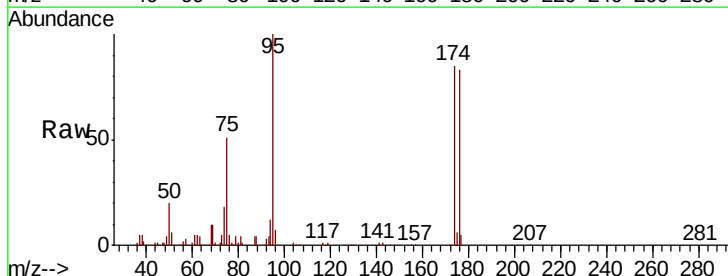
Instrument :
MSVOA_N
ClientSampleId :

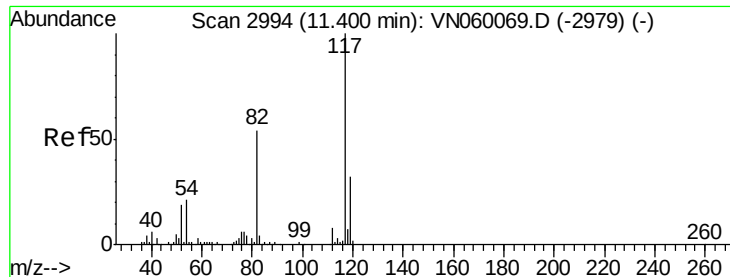
Tot Ion: 43 Resp: 23874
Ion Ratio Lower Upper
43 100
58 19.4 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 49.698 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060175.D
Acq: 20 Feb 2020 16:29

Tgt Ion: 95 Resp: 136874
Ion Ratio Lower Upper
95 100
174 85.0 0.0 169.8
176 83.0 0.0 164.8

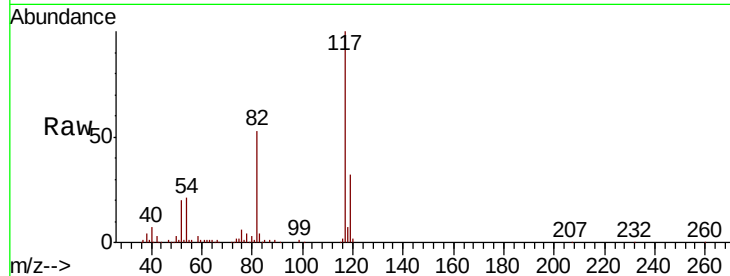




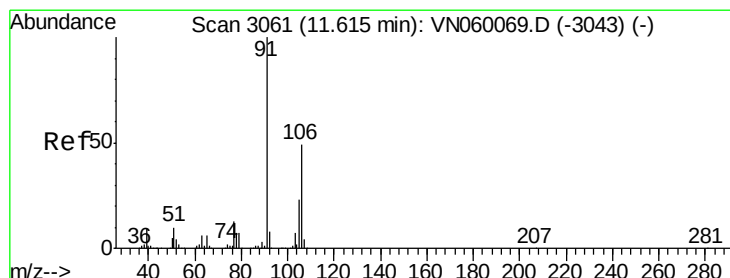
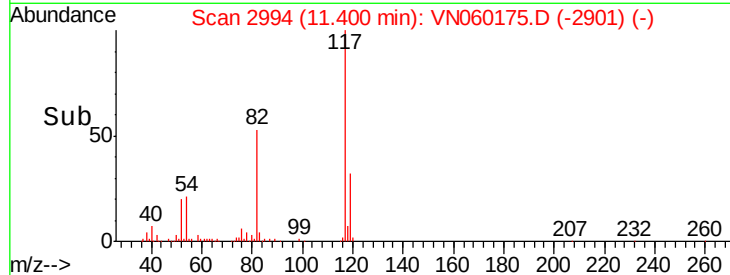
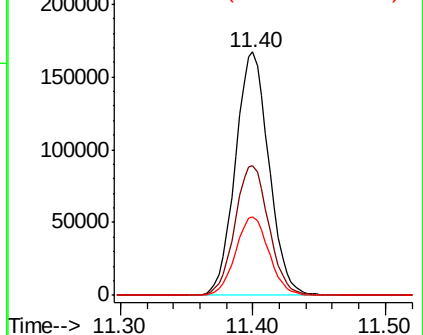
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060175.D
Acq: 20 Feb 2020 16:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 293322
Ion Ratio Lower Upper
117 100
82 53.4 43.4 65.0
119 32.4 25.8 38.6

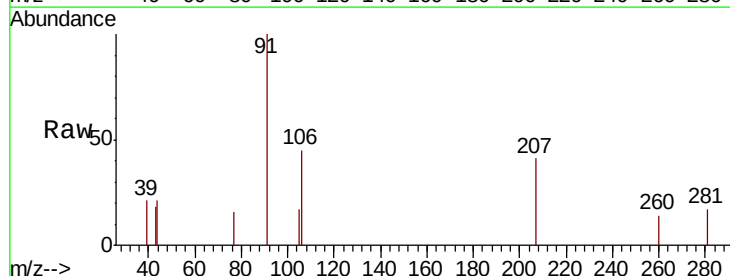


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

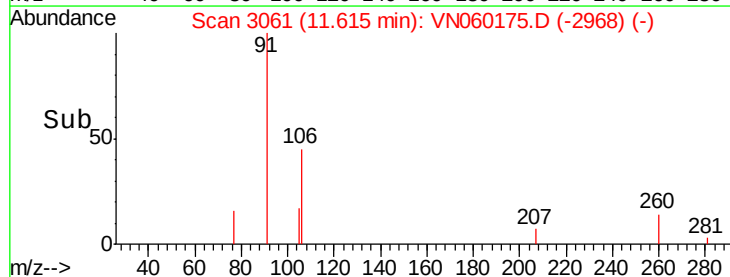
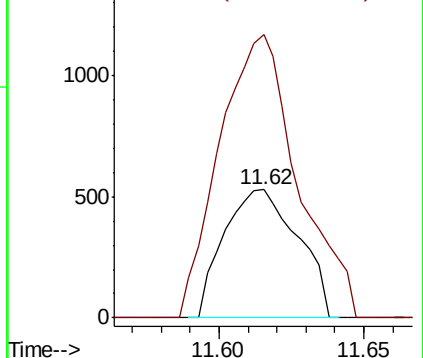


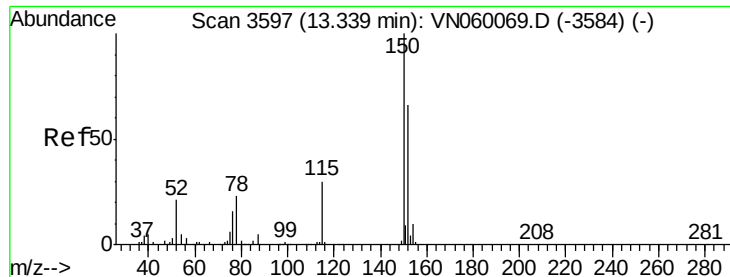
#68
m/p-Xylenes
Concen: 0.232 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN060175.D
Acq: 20 Feb 2020 16:29

Tgt Ion:106 Resp: 937
Ion Ratio Lower Upper
106 100
91 233.8 162.7 244.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN



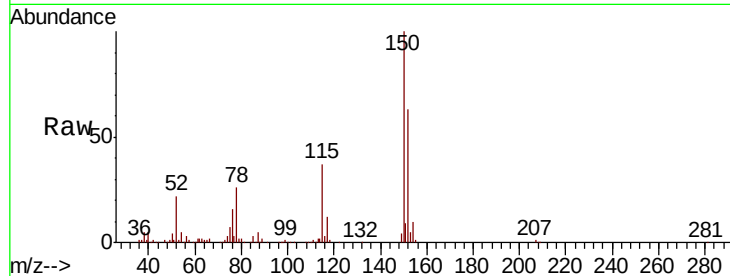


#72

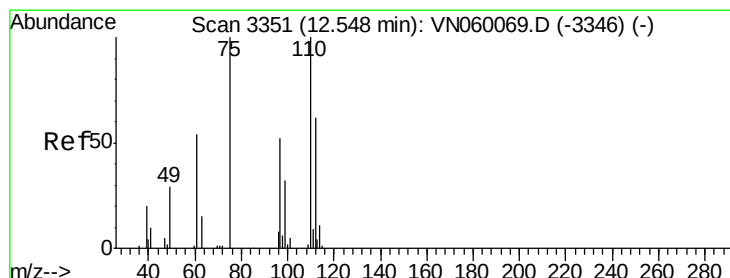
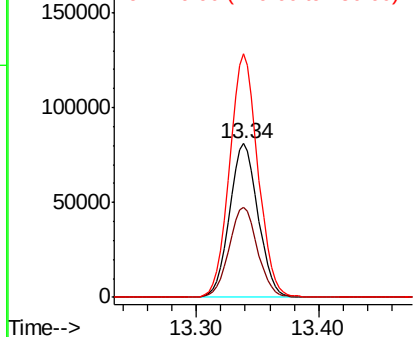
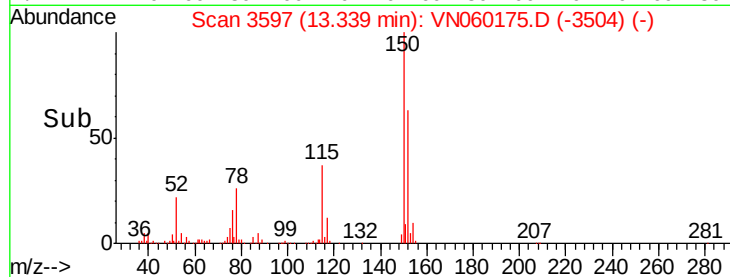
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060175.D
Acq: 20 Feb 2020 16:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.4	28.9	86.8
150	157.2	0.0	342.4



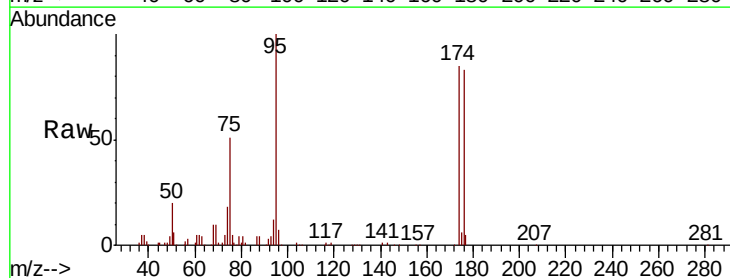
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



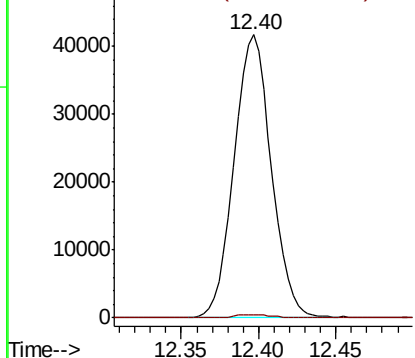
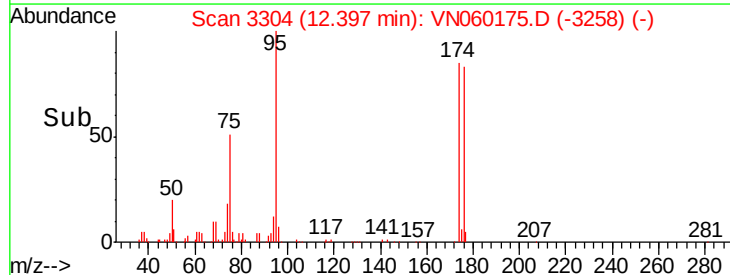
#76

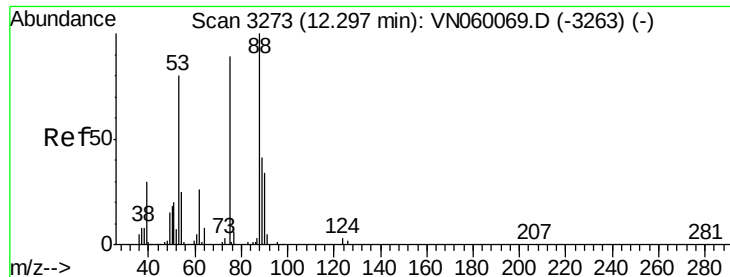
1,2,3-Trichloropropane
Concen: 27.544 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060175.D
Acq: 20 Feb 2020 16:29

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0

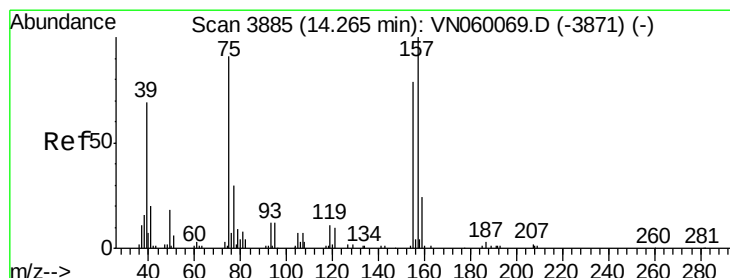
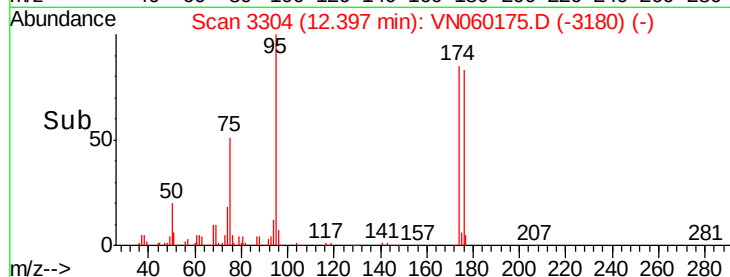
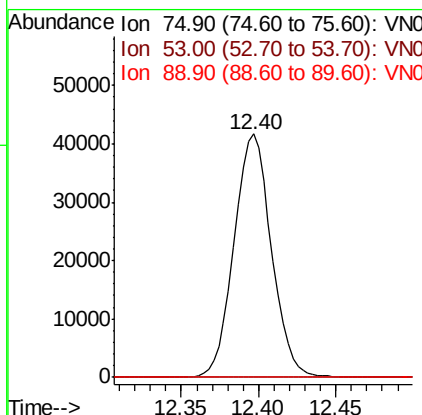
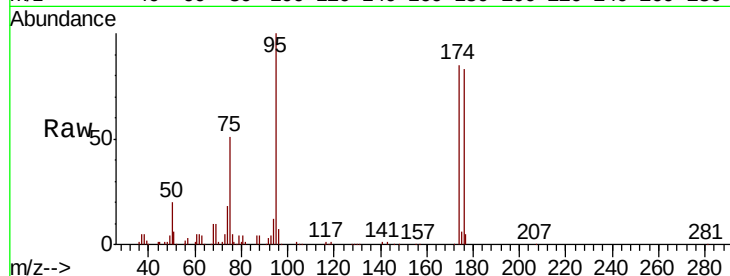




#81
trans-1,4-Dichloro-2-butene
Concen: 67.442 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060175.D
Acq: 20 Feb 2020 16:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 69755
Ion Ratio Lower Upper
75 100
53 0.0 73.9 110.9#
89 0.0 37.0 55.4#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.27 min Scan# 3888
Delta R.T. 0.01 min
Lab File: VN060175.D
Acq: 20 Feb 2020 16:29

Tgt Ion: 75 Resp: 245
Ion Ratio Lower Upper
75 100
155 0.0 43.0 129.0#
157 0.0 54.9 164.5#

