

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056192.D
 Acq On : 11 Jun 2019 1:49
 Operator : JC/SP
 Sample : K3223-03DL 402X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-0532-190605DL

Quant Time: Jun 11 05:09:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	308685	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	460247	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	454590	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149022	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	162238	52.93	ug/l	0.00
Spiked Amount			Recovery	=	105.86%	
35) Dibromofluoromethane	7.59	113	152690	54.07	ug/l	0.00
Spiked Amount			Recovery	=	108.14%	
50) Toluene-d8	10.09	98	597743	55.01	ug/l	0.00
Spiked Amount			Recovery	=	110.02%	
62) 4-Bromofluorobenzene	12.40	95	193147	52.27	ug/l	0.00
Spiked Amount			Recovery	=	104.54%	

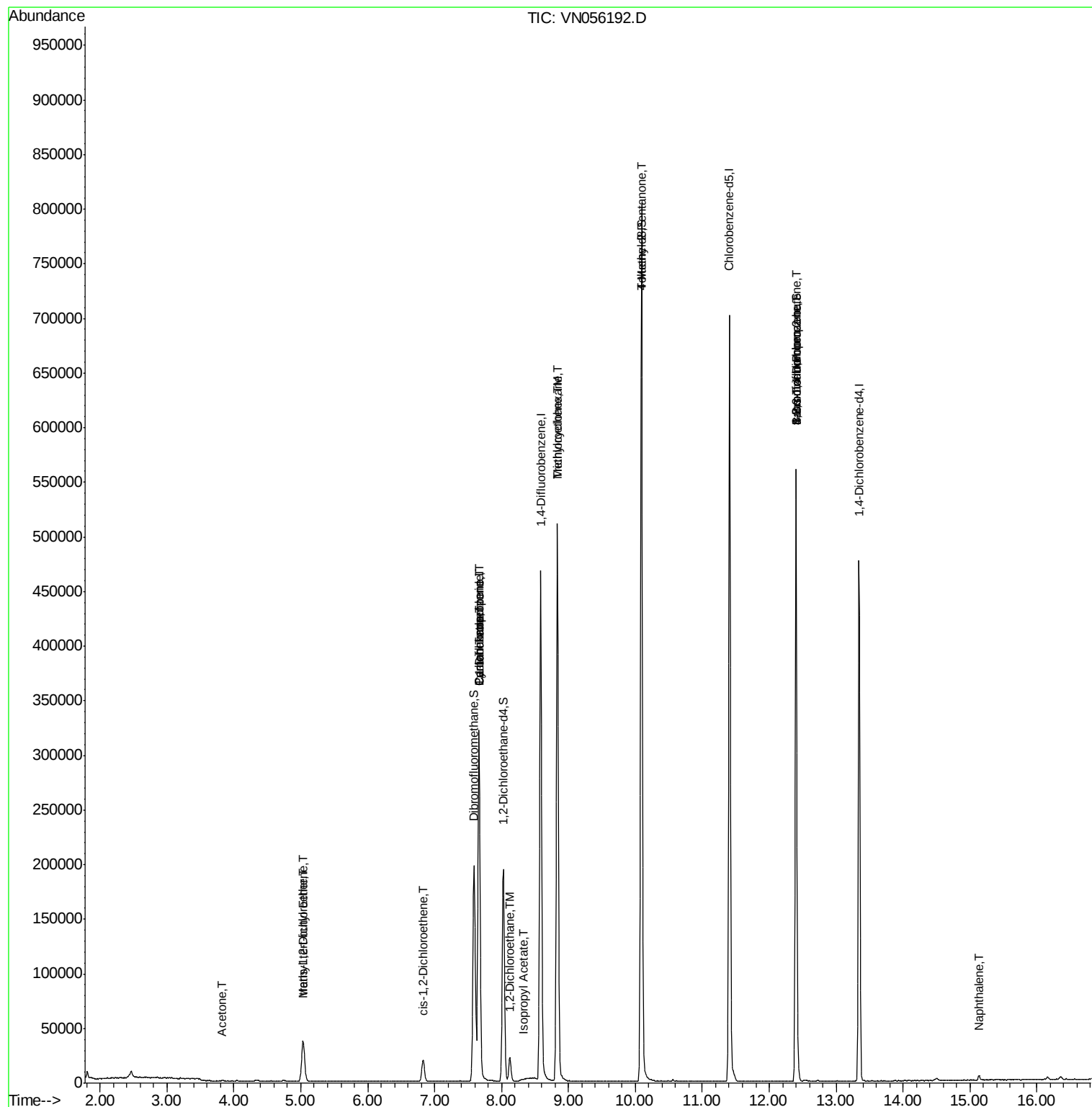
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	433	0.295	ug/l #	41
19) Methyl tert-butyl Ether	5.05	73	6135	0.743	ug/l	95
21) trans-1,2-Dichloroethene	5.04	96	25132	9.052	ug/l	90
27) cis-1,2-Dichloroethene	6.82	96	14329	4.390	ug/l	91
31) Cyclohexane	7.66	56	4120	0.847	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17573	4.440	ug/l #	44
38) Carbon Tetrachloride	7.66	117	24675	6.763	ug/l #	15
39) Methylcyclohexane	8.83	83	2203	0.447	ug/l #	1
42) 1,2-Dichloroethane	8.12	62	21771	5.631	ug/l	98
43) Isopropyl Acetate	8.32	43	2009	0.352	ug/l #	53
44) Trichloroethene	8.83	130	210331	60.897	ug/l	99
51) 4-Methyl-2-Pentanone	10.09	43	2261	0.634	ug/l #	1
71) Bromoform	12.40	173	1312	3.215	ug/l #	1
73) Isopropylbenzene	12.40	105	106	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	88967	32.445	ug/l #	100
79) 2-Chlorotoluene	12.40	91	519	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	88967	108.049	ug/l #	15
95) Naphthalene	15.13	128	5314	4.539	ug/l #	96

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

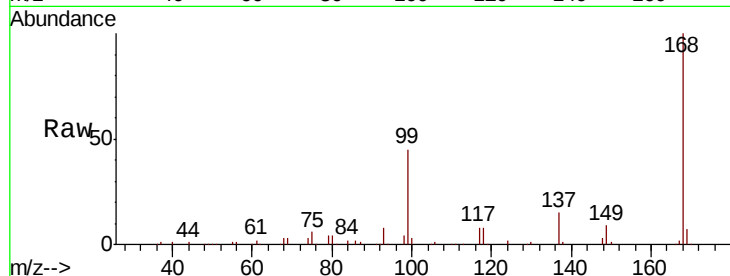
DUP-0532-190605DL

Tot Ion:168 Resp: 308685

Ion Ratio Lower Upper

168 100

99 45.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

150000

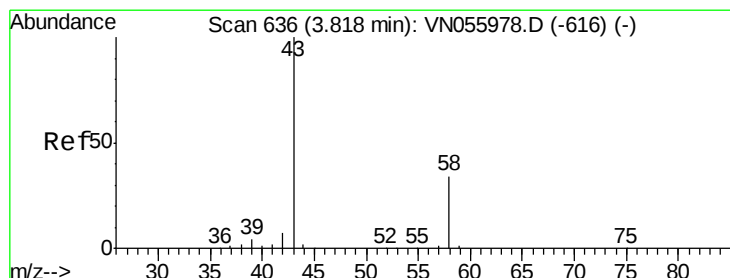
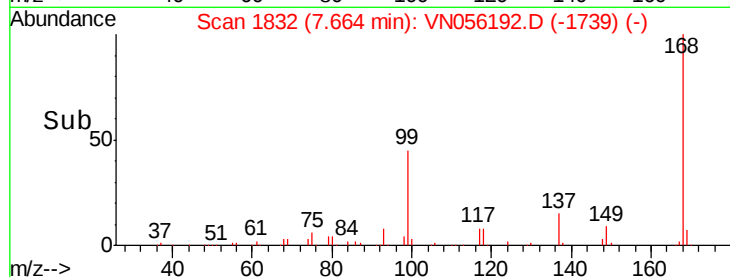
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 0.295 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN056192.D

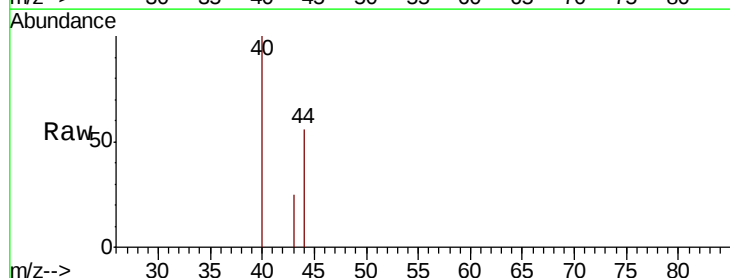
Acq: 11 Jun 2019 1:49

Tgt Ion: 43 Resp: 433

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.83

300

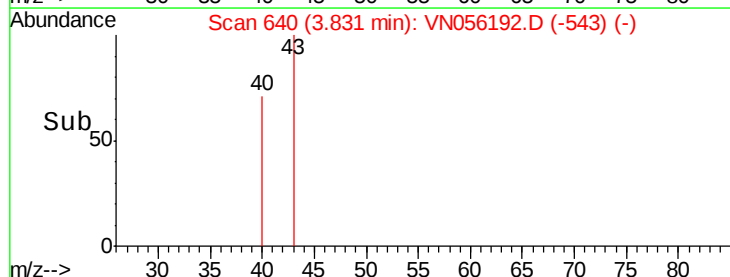
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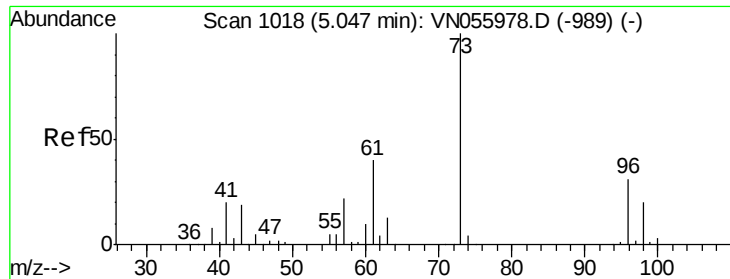
100

0

3.80 3.82 3.84

Time-->

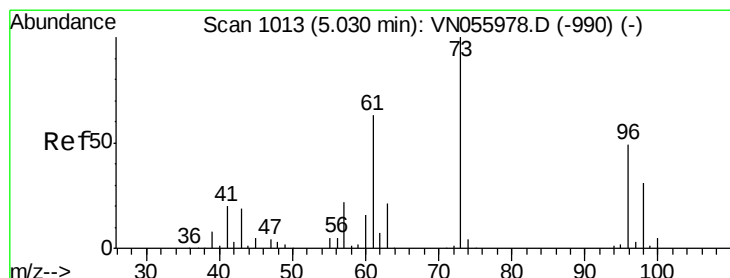
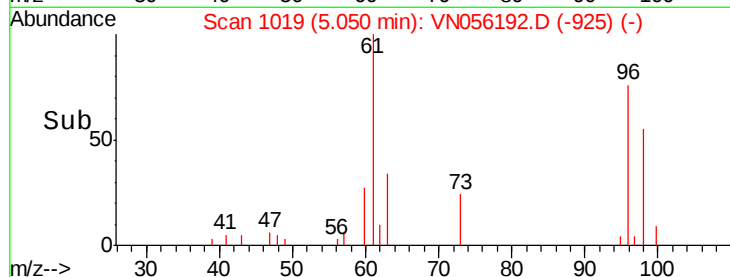
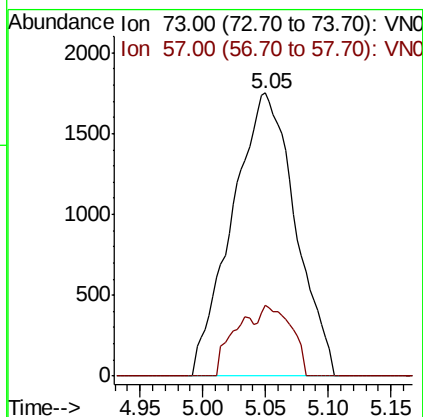
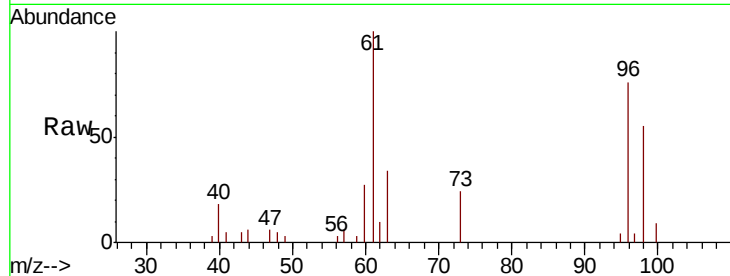




#19
Methvl tert-butvl Ether
Concen: 0.743 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN056192.D
Acq: 11 Jun 2019 1:49

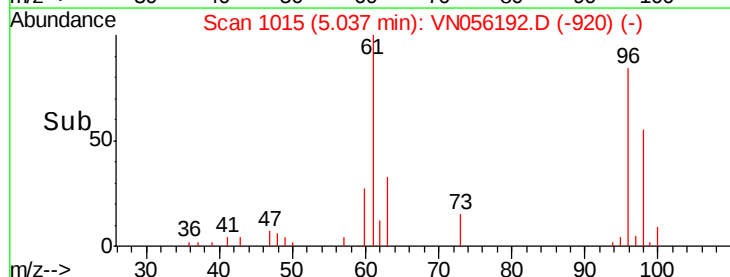
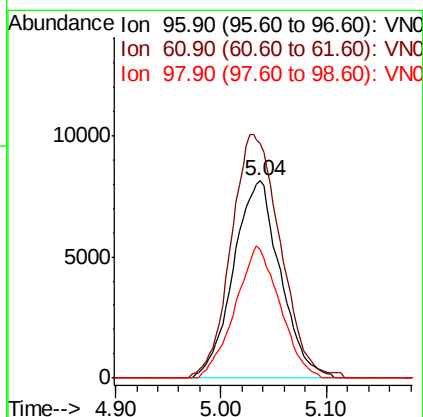
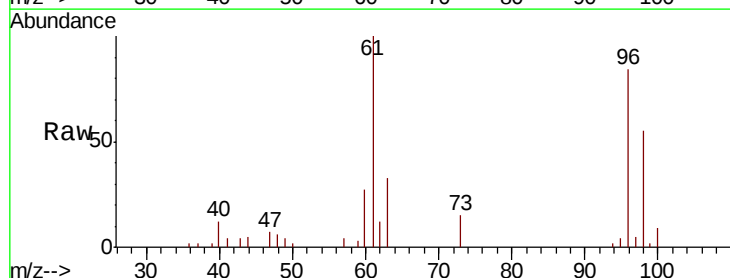
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DUP-0532-190605DL

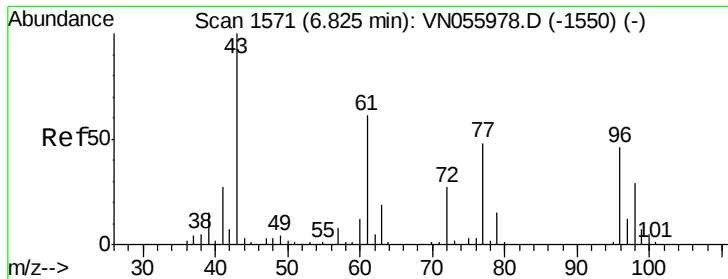
Tot Ion: 73 Resp: 6135
Ion Ratio Lower Upper
73 100
57 24.9 17.8 26.8



#21
trans-1,2-Dichloroethene
Concen: 9.052 ug/l
RT: 5.04 min Scan# 1015
Delta R.T. 0.01 min
Lab File: VN056192.D
Acq: 11 Jun 2019 1:49

Tgt Ion: 96 Resp: 25132
Ion Ratio Lower Upper
96 100
61 118.8 107.8 161.8
98 64.9 49.8 74.8





#27

cis-1,2-Dichloroethene

Concen: 4.390 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

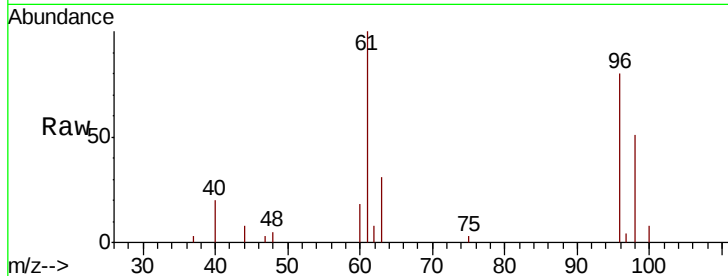
Tot Ion: 96 Resp: 14329

Ion Ratio Lower Upper

96 100

61 122.5 0.0 275.8

98 64.6 0.0 128.4

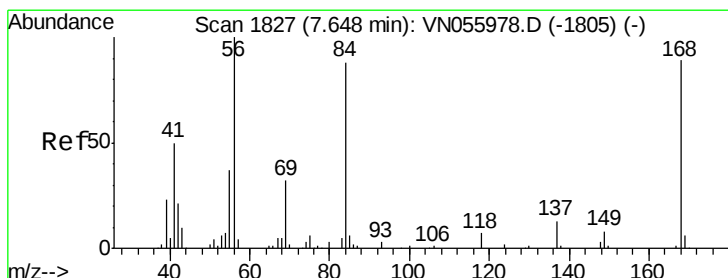
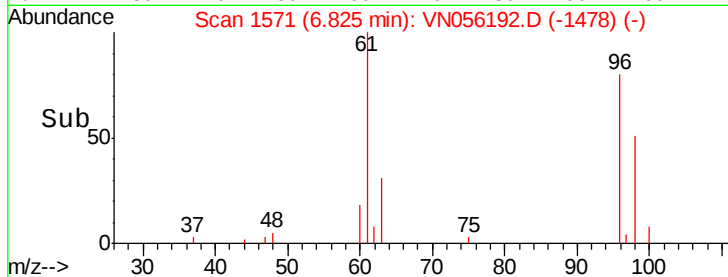
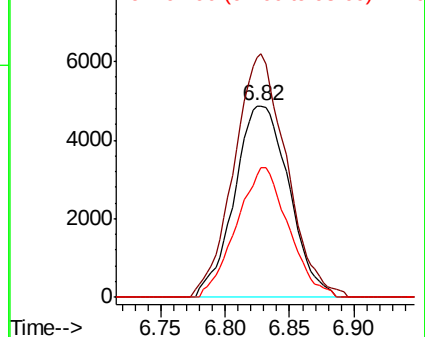


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.847 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

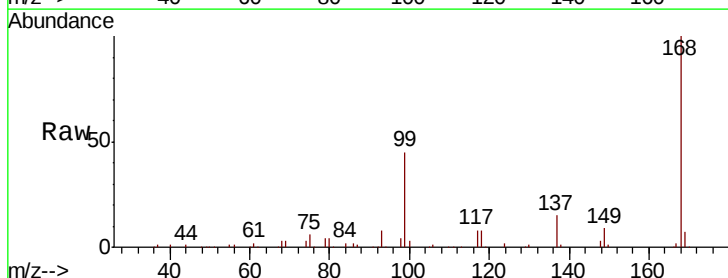
Tgt Ion: 56 Resp: 4120

Ion Ratio Lower Upper

56 100

69 195.0 25.6 38.4#

84 159.8 67.4 101.0#

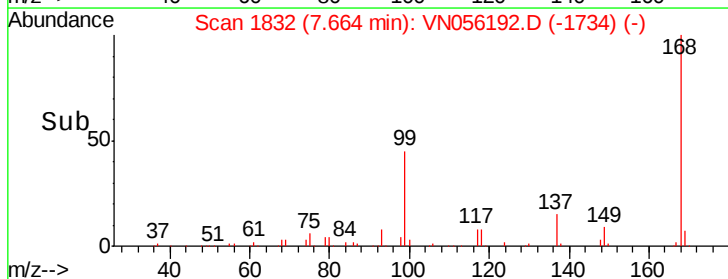
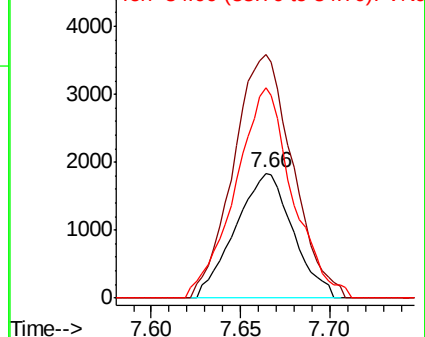


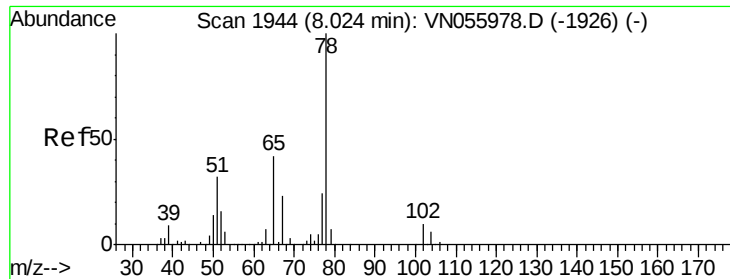
Abundance

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

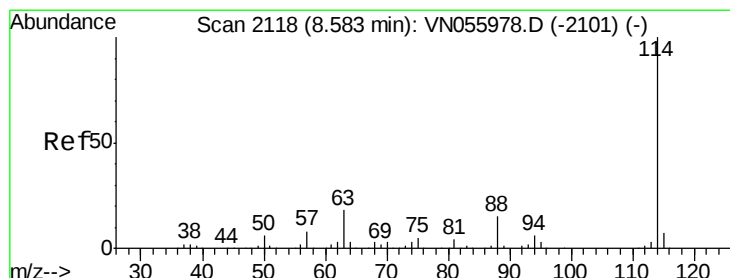
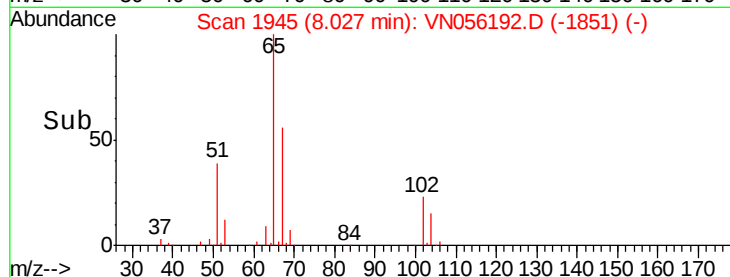
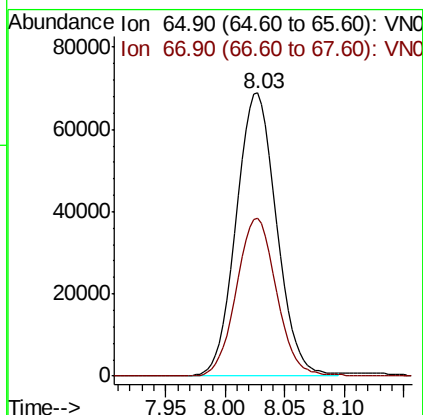
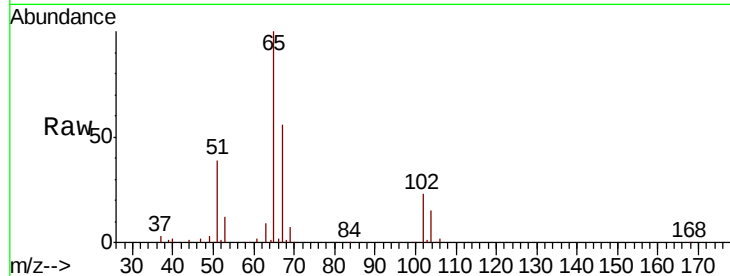




#33
 1,2-Dichloroethane-d4
 Concen: 52.933 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

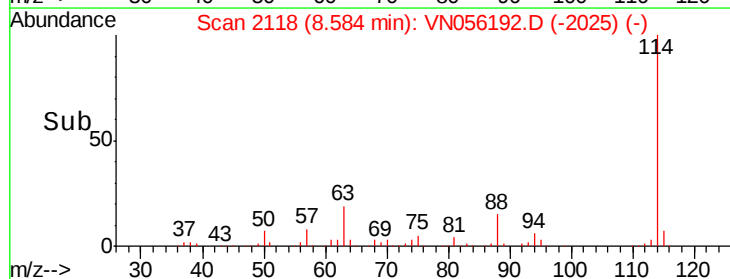
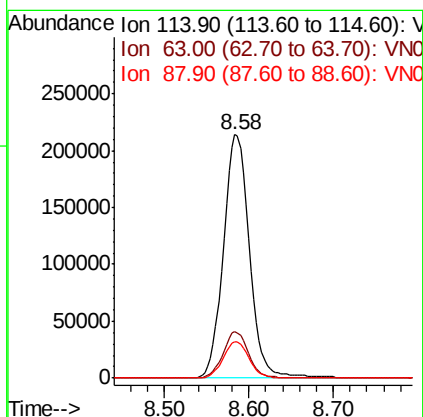
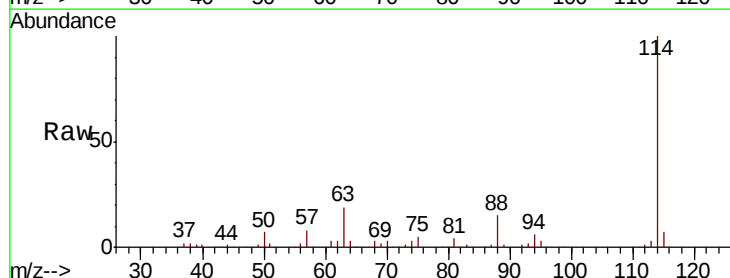
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 ClientSampleId :
 DUP-0532-190605DL

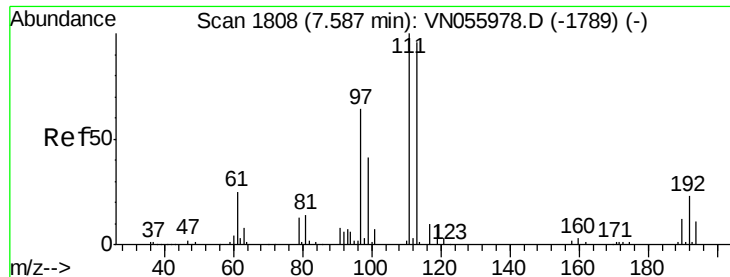
Tot Ion: 65 Resp: 162238
 Ion Ratio Lower Upper
 65 100
 67 55.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

Tgt Ion: 114 Resp: 460247
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.2
 88 14.9 0.0 31.0

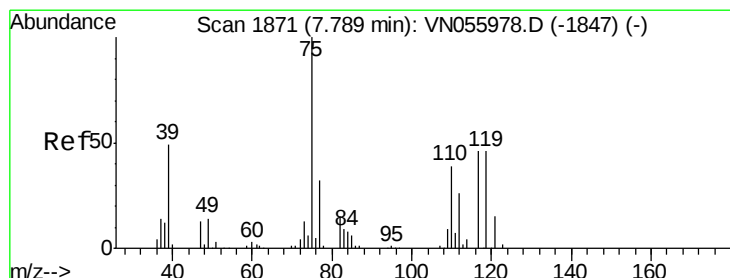
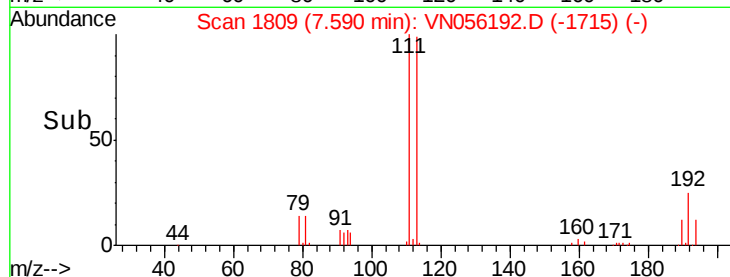
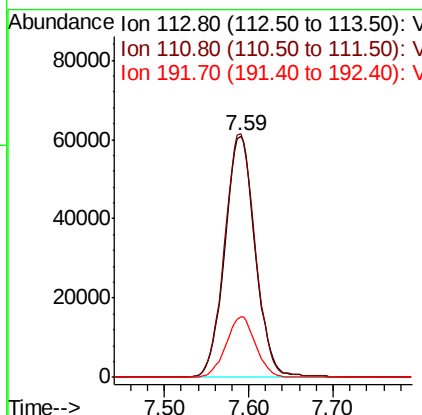
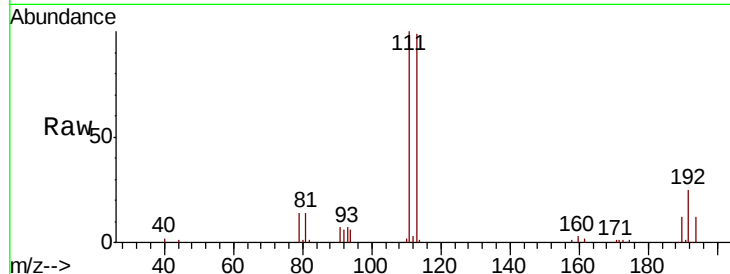




#35
 Dibromofluoromethane
 Concen: 54.073 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

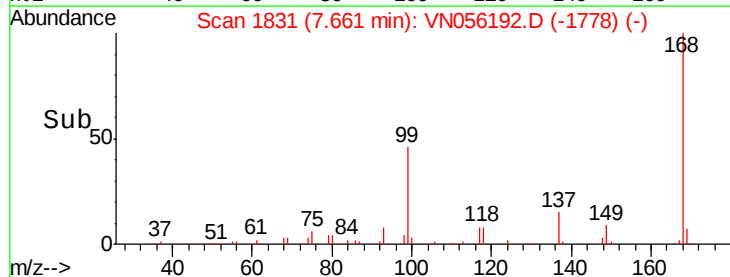
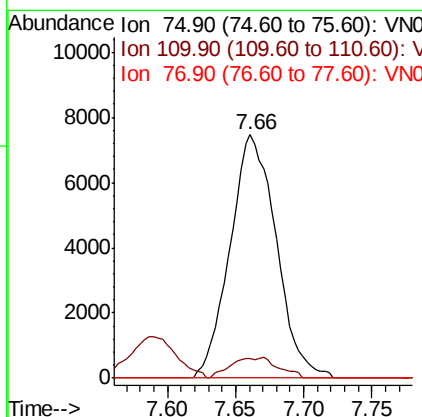
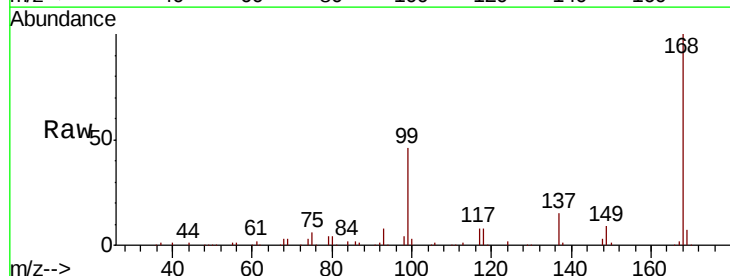
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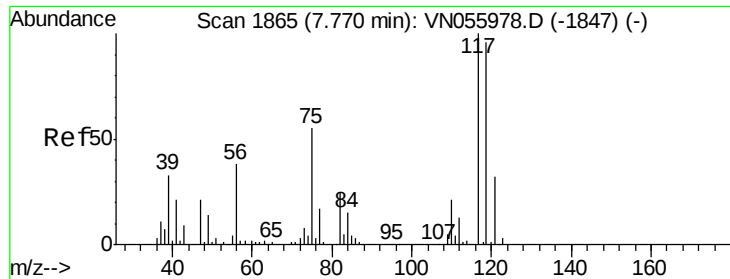
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.9	122.9
192	24.3	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.440 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

Tgt Ion	Ratio	Lower	Upper
75	100		
110	4.7	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.763 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

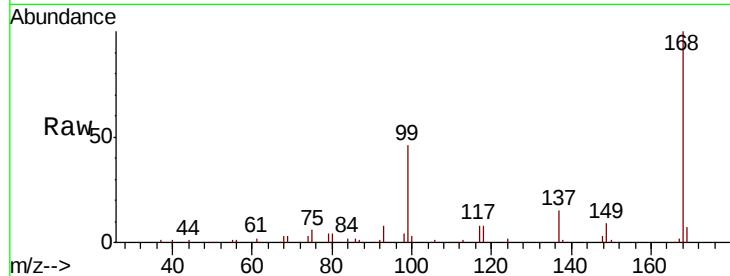
Tot Ion:117 Resp: 24675

Ion Ratio Lower Upper

117 100

119 5.3 79.0 118.6#

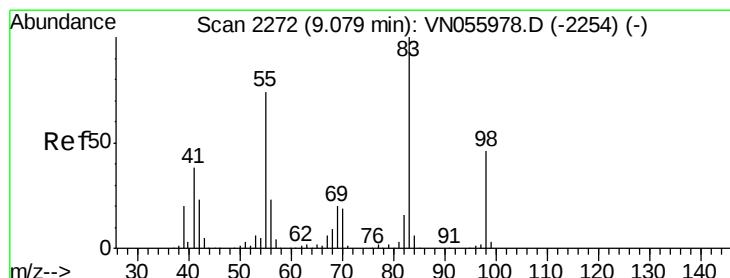
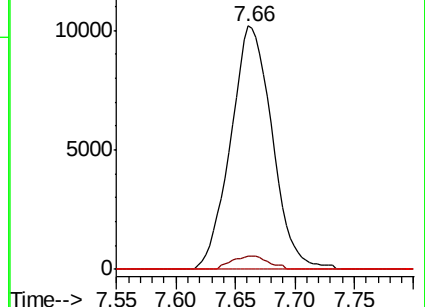
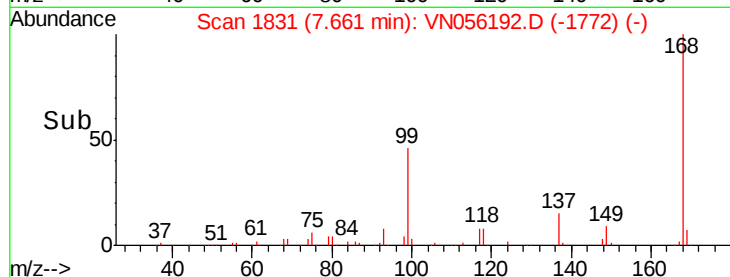
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 0.447 ug/l

RT: 8.83 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

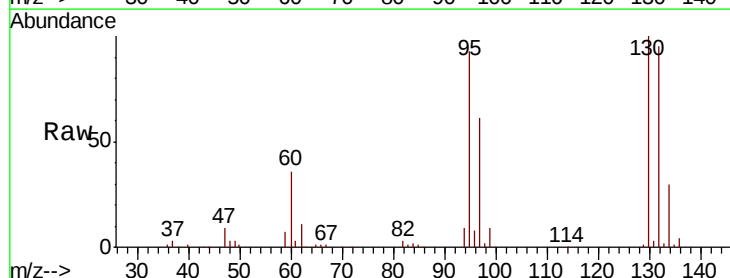
Tgt Ion: 83 Resp: 2203

Ion Ratio Lower Upper

83 100

55 0.0 59.3 88.9#

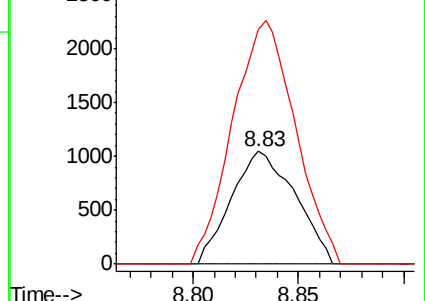
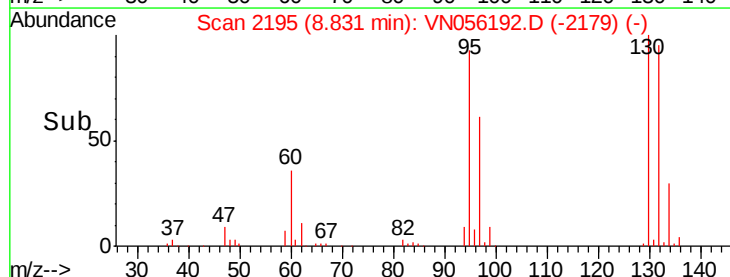
98 208.7 36.6 54.8#

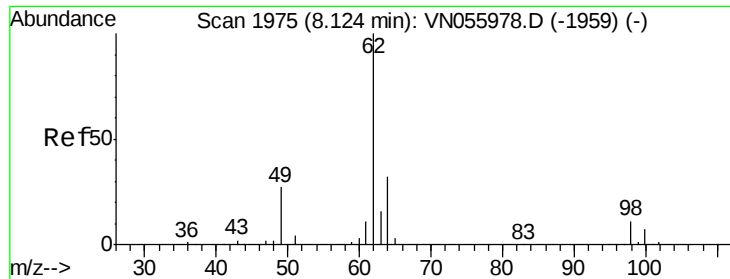


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

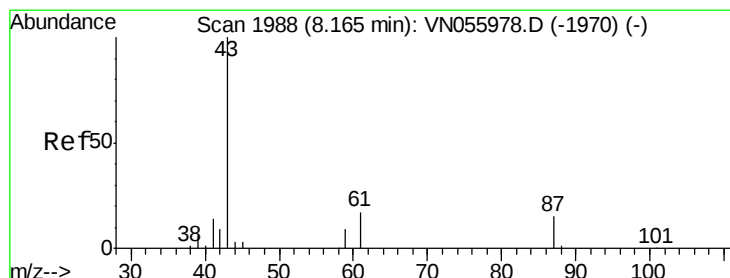
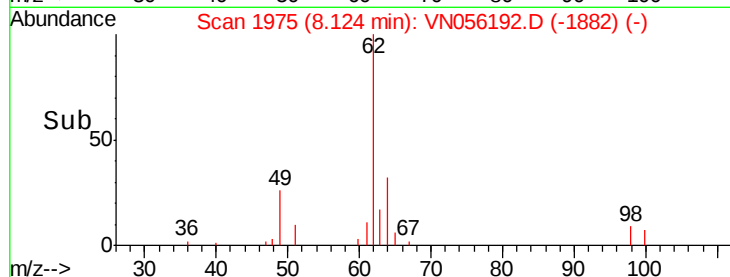
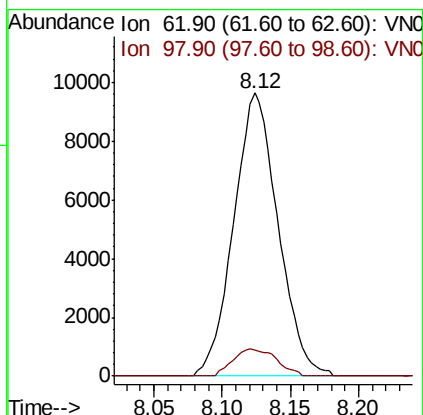
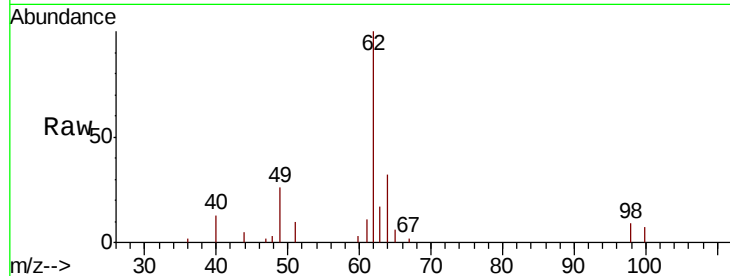




#42
 1,2-Dichloroethane
 Concen: 5.631 ug/l
 RT: 8.12 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

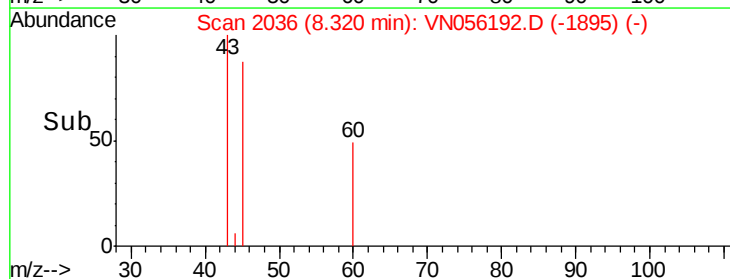
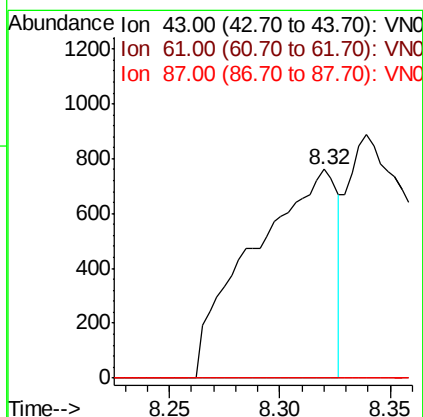
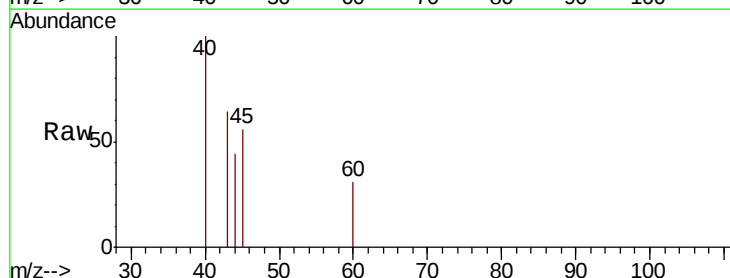
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 DUP-0532-190605DL

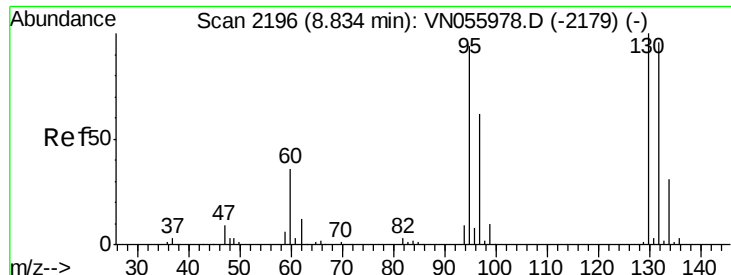
Tot Ion: 62 Resp: 21771
 Ion Ratio Lower Upper
 62 100
 98 9.5 0.0 20.2



#43
 Isopropyl Acetate
 Concen: 0.352 ug/l
 RT: 8.32 min Scan# 2036
 Delta R.T. 0.15 min
 Lab File: VN056192.D
 Acq: 11 Jun 2019 1:49

Tgt Ion: 43 Resp: 2009
 Ion Ratio Lower Upper
 43 100
 61 0.0 22.2 33.4#
 87 0.0 11.4 17.2#





#44

Trichloroethene

Concen: 60.897 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

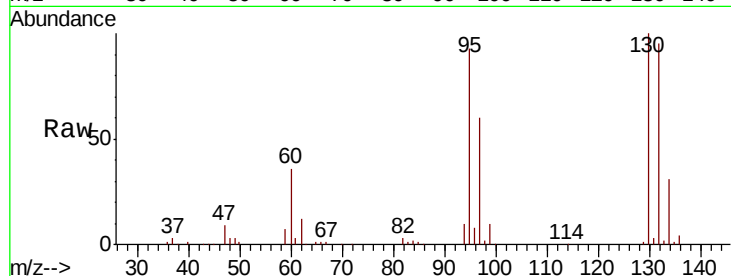
DUP-0532-190605DL

Tot Ion:130 Resp: 210331

Ion Ratio Lower Upper

130 100

95 93.5 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.83

100000

80000

60000

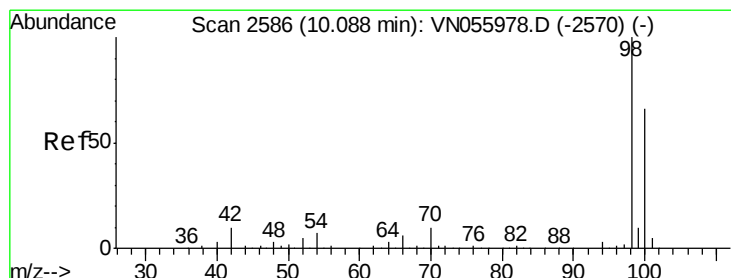
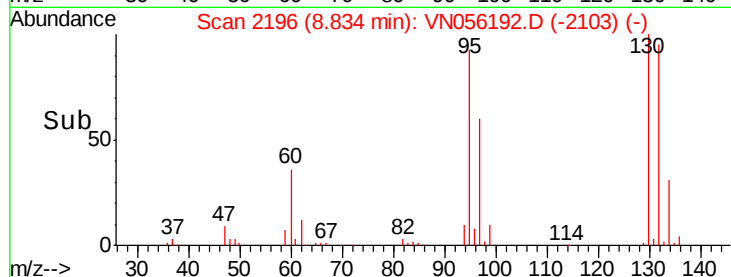
40000

20000

0

8.80 8.90

Time-->



#50

Toluene-d8

Concen: 55.011 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056192.D

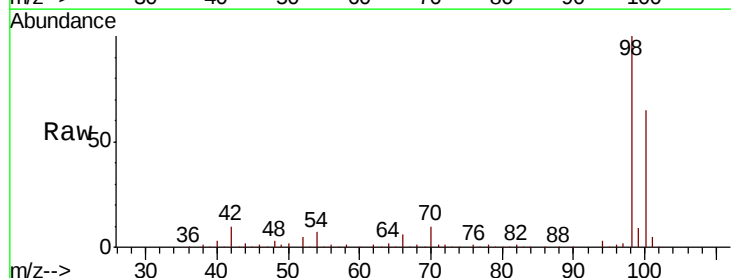
Acq: 11 Jun 2019 1:49

Tgt Ion: 98 Resp: 597743

Ion Ratio Lower Upper

98 100

100 64.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.09

300000

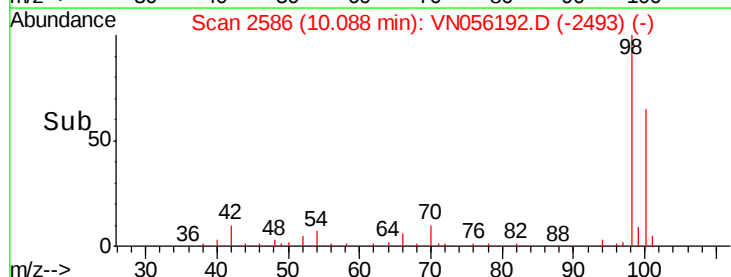
200000

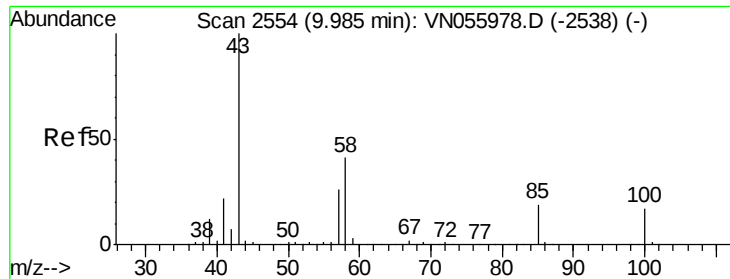
100000

0

10.00 10.10 10.20

Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.634 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

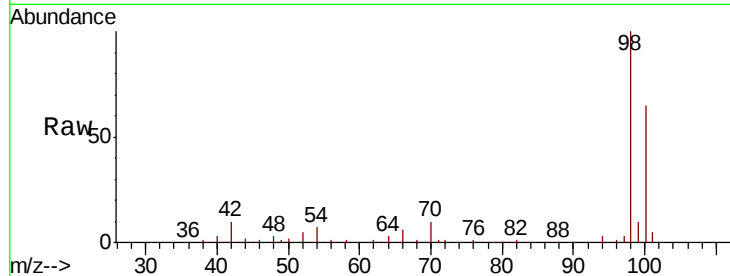
DUP-0532-190605DL

Tot Ion: 43 Resp: 2261

Ion Ratio Lower Upper

43 100

58 177.0 32.1 48.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN055978.D (-2538) (-)

2500

2000

1500

1000

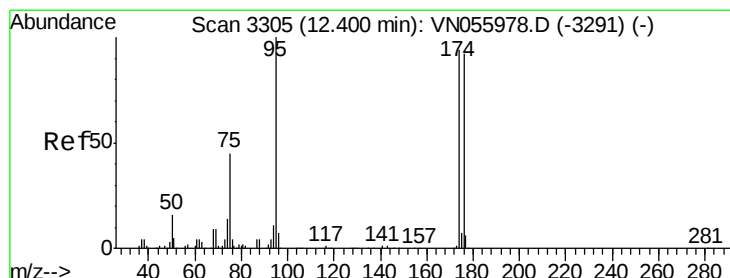
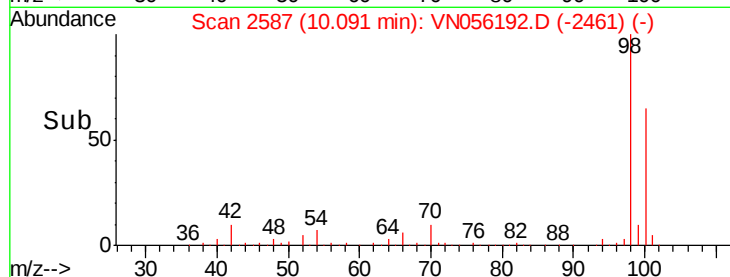
500

0

10.05

10.10

Time-->



#62

4-Bromofluorobenzene

Concen: 52.269 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

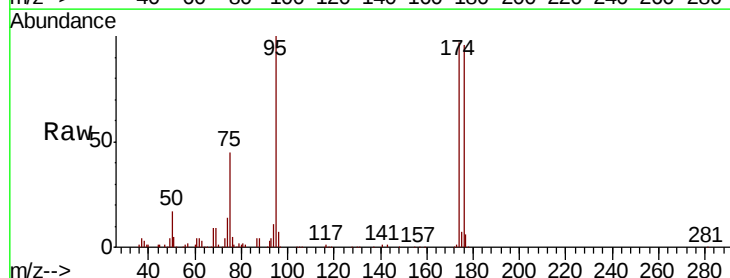
Tgt Ion: 95 Resp: 193147

Ion Ratio Lower Upper

95 100

174 97.9 0.0 191.0

176 95.7 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

150000

100000

50000

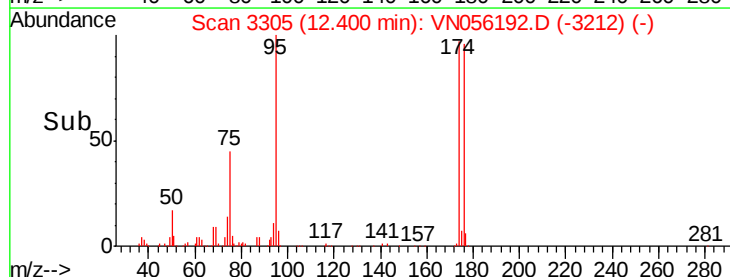
0

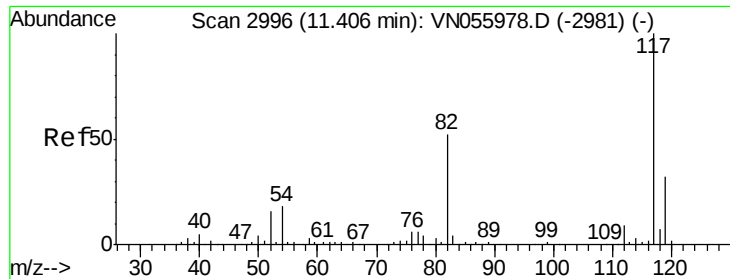
12.30

12.40

12.50

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

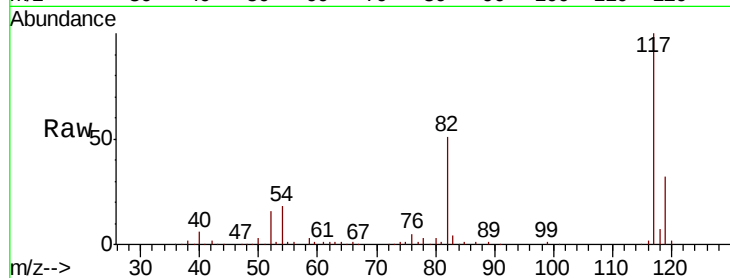
Tot Ion:117 Resp: 454590

Ion Ratio Lower Upper

117 100

82 50.9 41.8 62.8

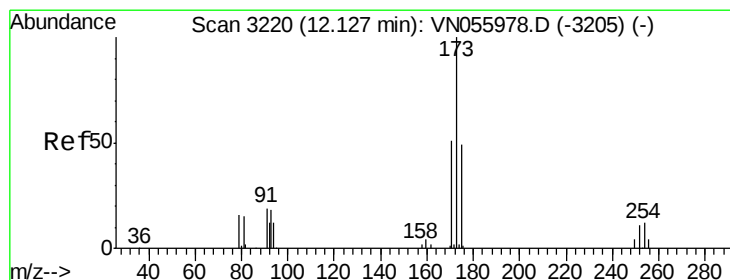
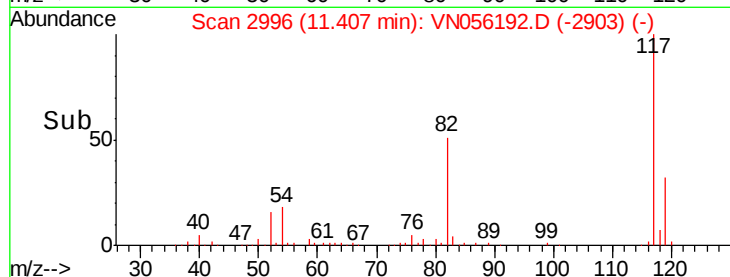
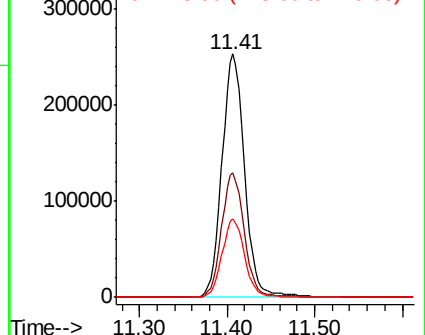
119 32.0 25.4 38.0



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



#71

Bromoform

Concen: 3.215 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

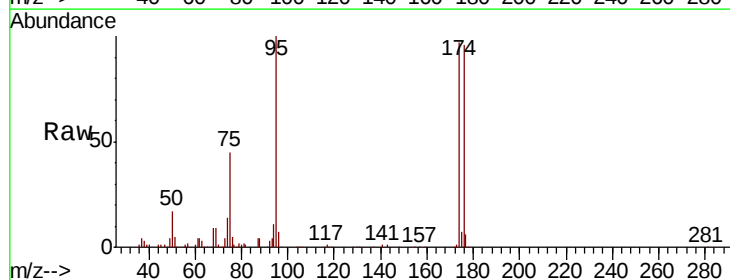
Tgt Ion:173 Resp: 1312

Ion Ratio Lower Upper

173 100

175 907.3 24.3 72.8#

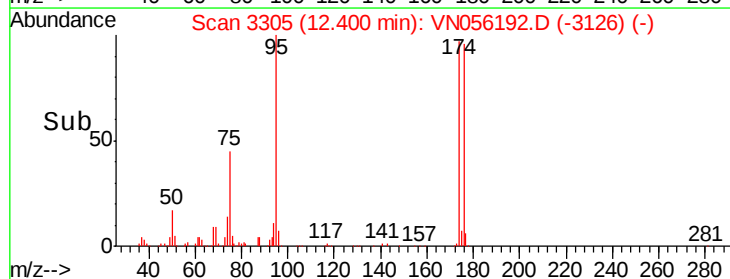
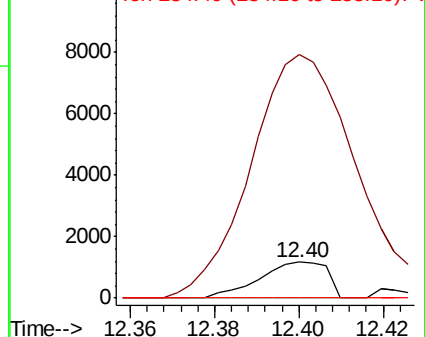
254 0.0 0.0 0.0

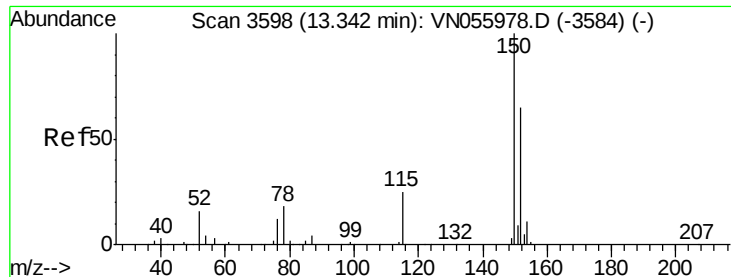


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3598

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

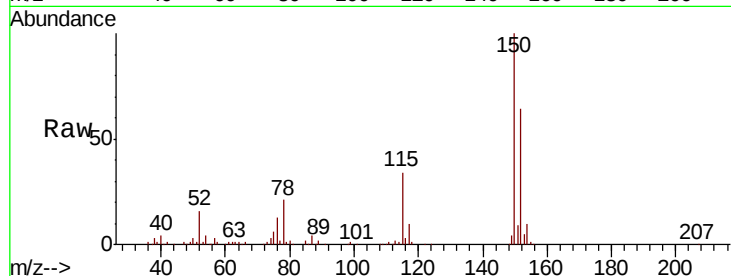
Tot Ion:152 Resp: 149022

Ion Ratio Lower Upper

152 100

115 52.0 27.0 81.0

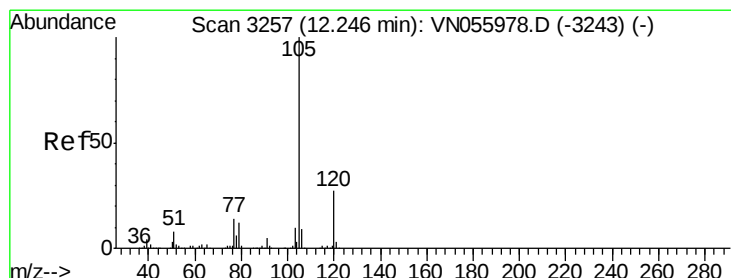
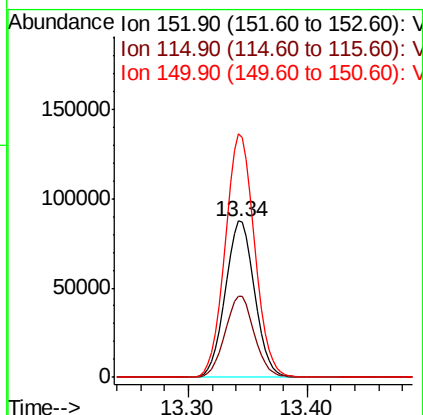
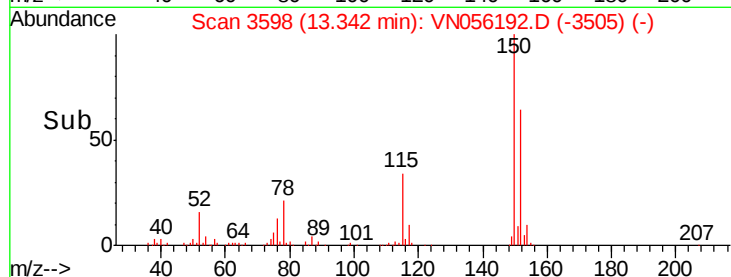
150 156.2 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN056192.D

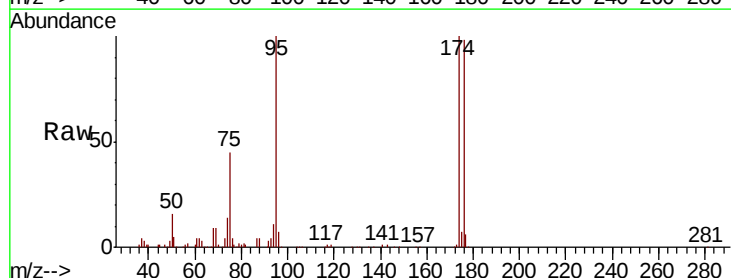
Acq: 11 Jun 2019 1:49

Tgt Ion:105 Resp: 106

Ion Ratio Lower Upper

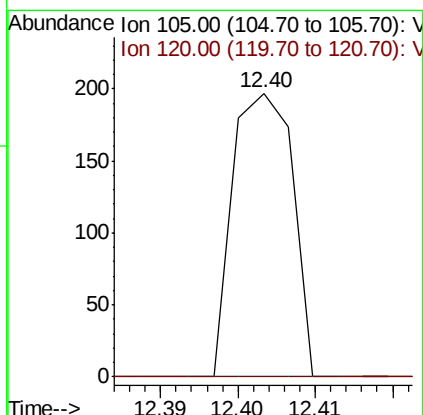
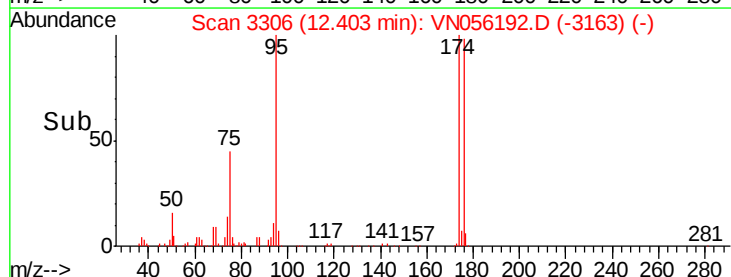
105 100

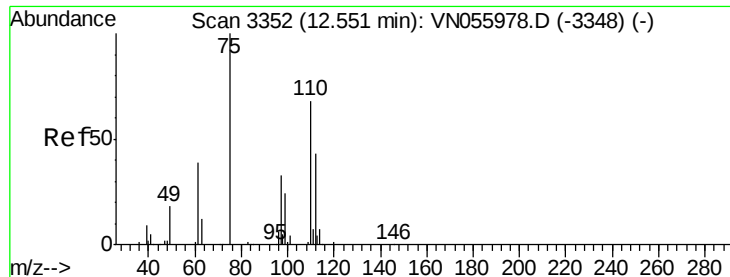
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 32.445 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

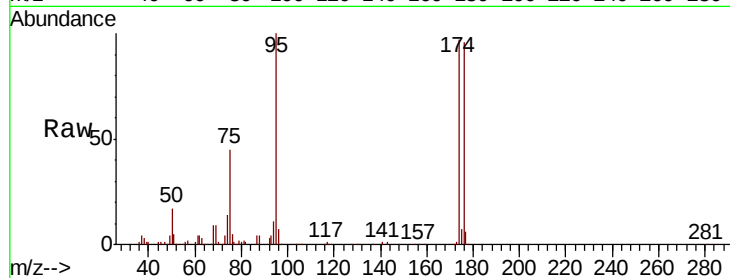
DUP-0532-190605DL

Tot Ion: 75 Resp: 88967

Ion Ratio Lower Upper

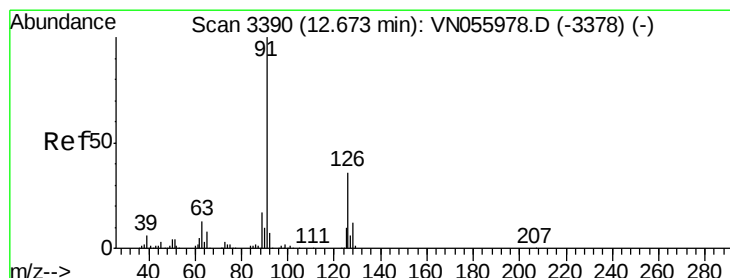
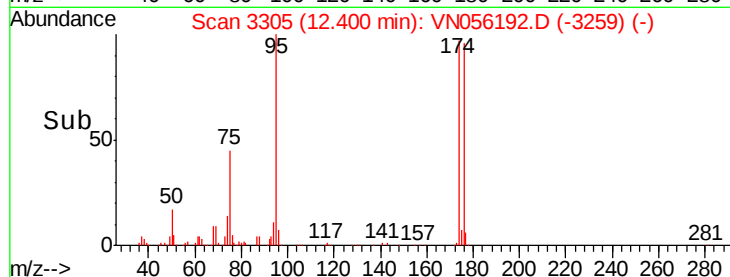
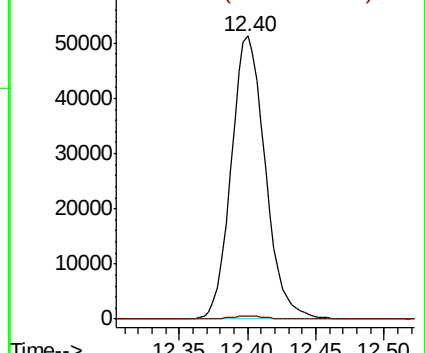
75 100

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



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.27 min

Lab File: VN056192.D

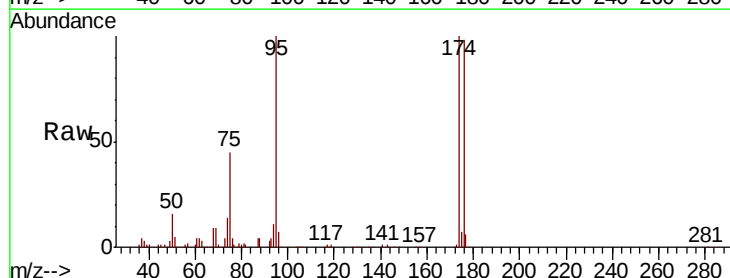
Acq: 11 Jun 2019 1:49

Tgt Ion: 91 Resp: 519

Ion Ratio Lower Upper

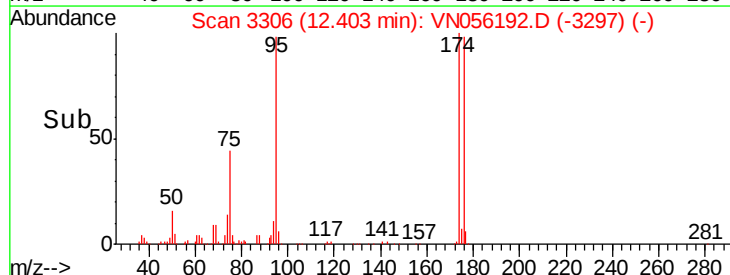
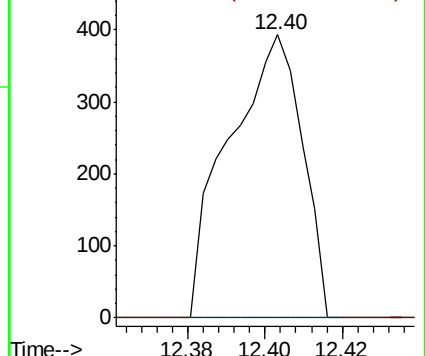
91 100

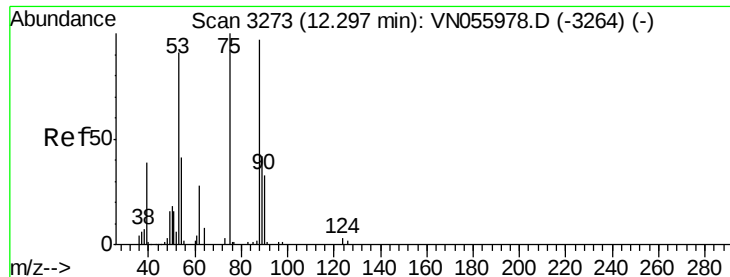
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 108.049 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

Instrument :

MSVOA_N

ClientSampleId :

DUP-0532-190605DL

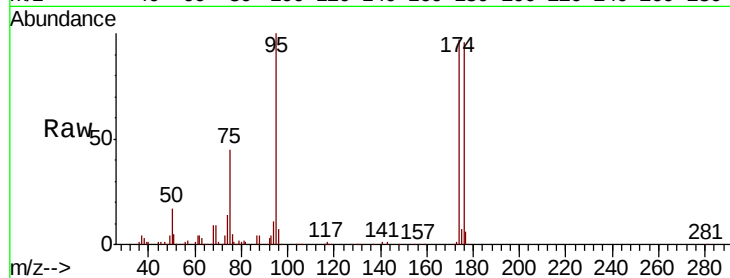
Tot Ion: 75 Resp: 88967

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

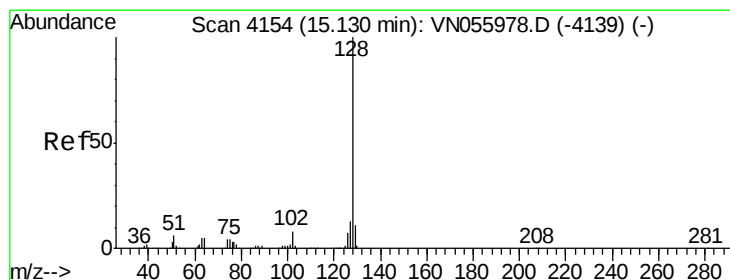
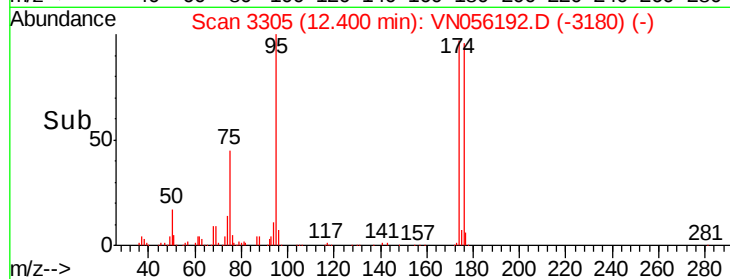
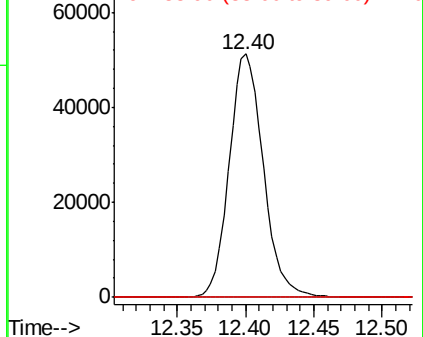
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 4.539 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056192.D

Acq: 11 Jun 2019 1:49

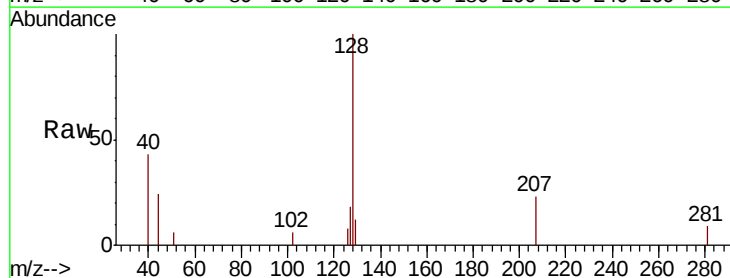
Tgt Ion: 128 Resp: 5314

Ion Ratio Lower Upper

128 100

127 13.8 10.3 15.5

129 8.3 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

