

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056251.D
 Acq On : 12 Jun 2019 16:14
 Operator : JC/SP
 Sample : K3315-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP04-20190607

Quant Time: Jun 13 04:33:37 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	313564	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	470342	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	455563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142186	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	161585	51.90	ug/l	0.00
Spiked Amount			Recovery	=	103.80%	
35) Dibromofluoromethane	7.59	113	153597	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	
50) Toluene-d8	10.09	98	597346	53.79	ug/l	0.00
Spiked Amount			Recovery	=	107.58%	
62) 4-Bromofluorobenzene	12.40	95	183256	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	

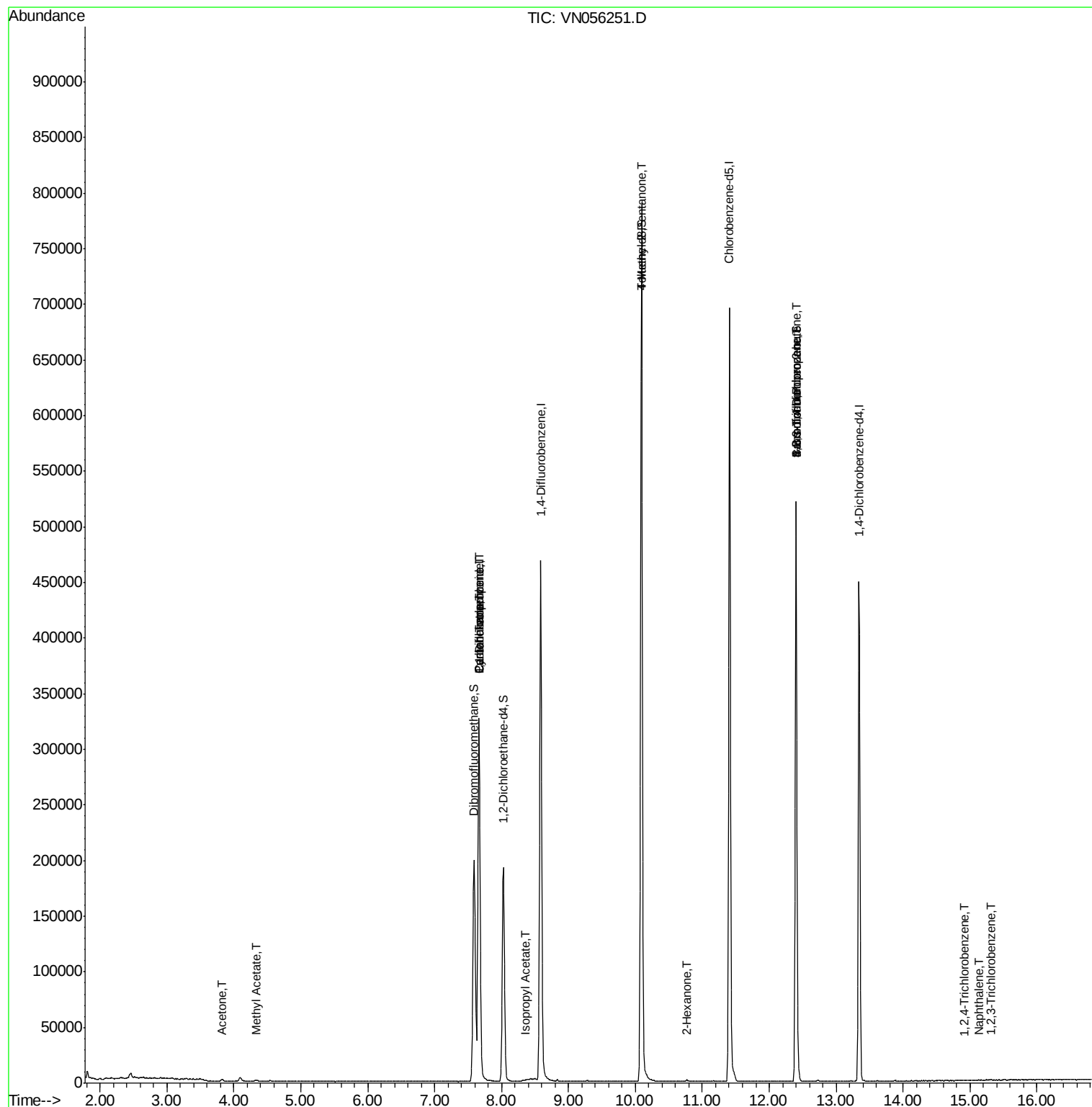
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	2725	1.830	ug/l	97
18) Methyl Acetate	4.34	43	2621	0.322	ug/l #	65
31) Cyclohexane	7.67	56	4046	0.819	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17613	4.355	ug/l #	47
38) Carbon Tetrachloride	7.66	117	24597	6.597	ug/l #	16
43) Isopropyl Acetate	8.36	43	1764	0.303	ug/l #	53
51) 4-Methyl-2-Pentanone	10.09	43	2268	0.622	ug/l #	1
59) 2-Hexanone	10.77	43	543	0.205	ug/l #	23
71) Bromoform	12.40	173	1197	3.173	ug/l #	1
73) Isopropylbenzene	12.25	105	61	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	85234	32.578	ug/l #	100
79) 2-Chlorotoluene	12.59	91	199	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	85234	108.492	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.90	180	216	4.345	ug/l #	48
95) Naphthalene	15.13	128	623	3.936	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	360	3.158	ug/l #	79

(#) = 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: VN056251.D

Acq: 12 Jun 2019 16:14

Instrument :

MSVOA_N

ClientSampleId :

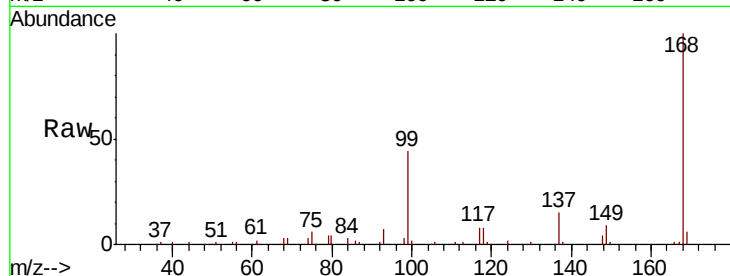
DUP04-20190607

Tot Ion:168 Resp: 313564

Ion Ratio Lower Upper

168 100

99 44.4 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): VN056251.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056251.D (-1739) (-)

7.66

150000

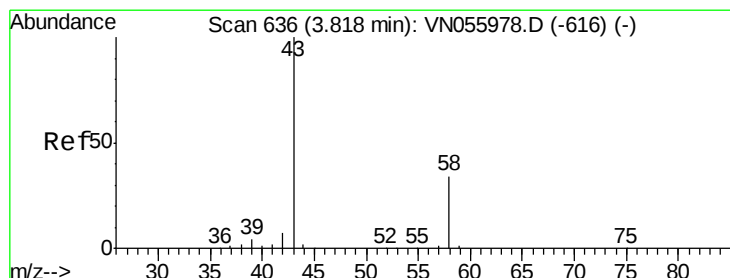
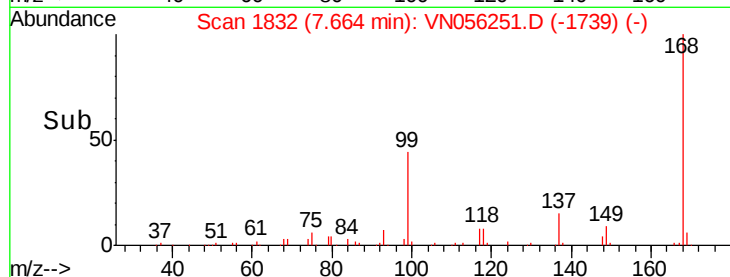
100000

50000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 1.830 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056251.D

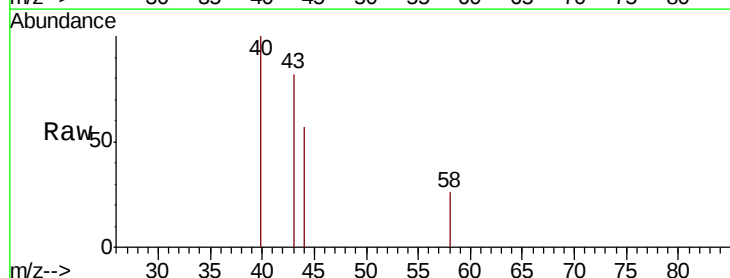
Acq: 12 Jun 2019 16:14

Tgt Ion: 43 Resp: 2725

Ion Ratio Lower Upper

43 100

58 31.2 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN056251.D (-543) (-)

Ion 58.00 (57.70 to 58.70): VN056251.D (-543) (-)

3.82

1200

1000

800

600

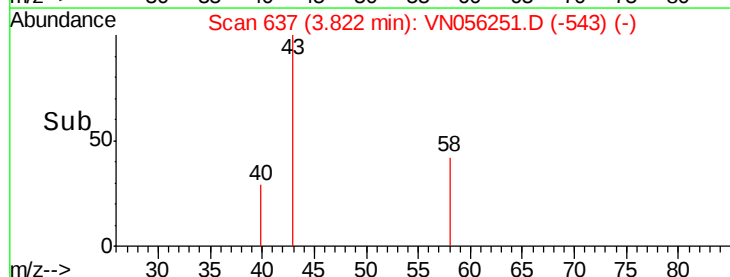
400

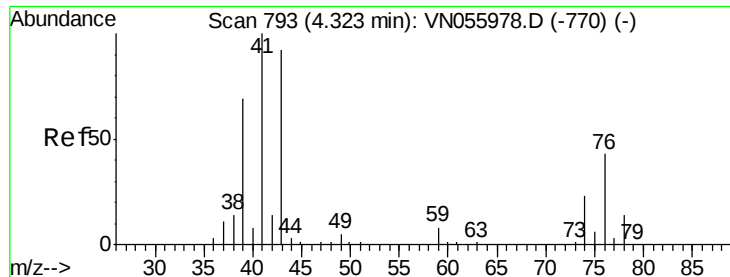
200

0

3.75 3.80 3.85 3.90

Time-->

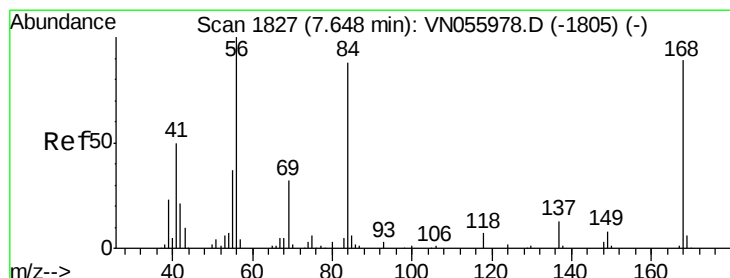
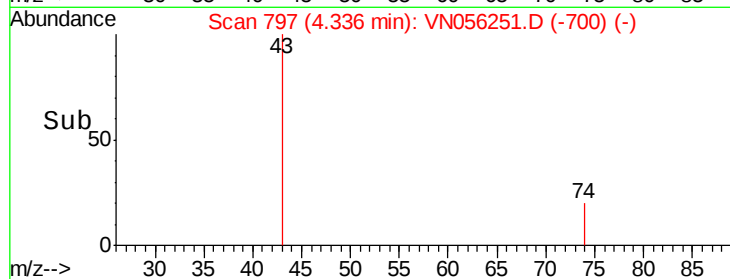
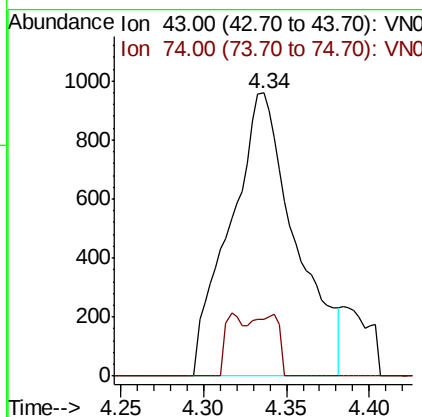
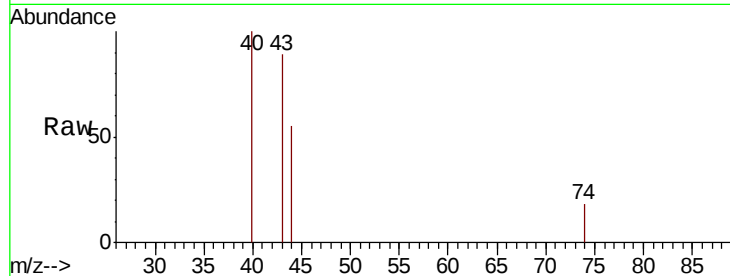




#18
Methvl Acetate
Concen: 0.322 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056251.D
Acq: 12 Jun 2019 16:14

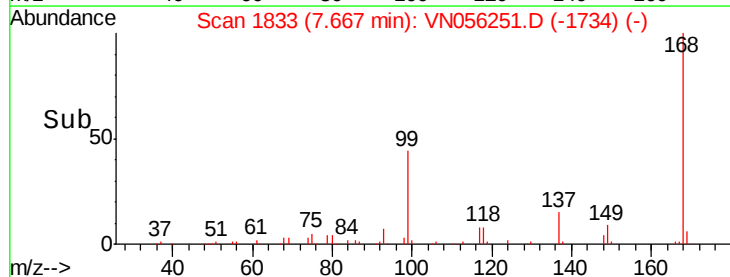
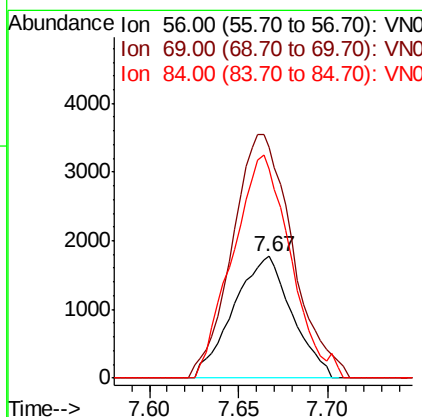
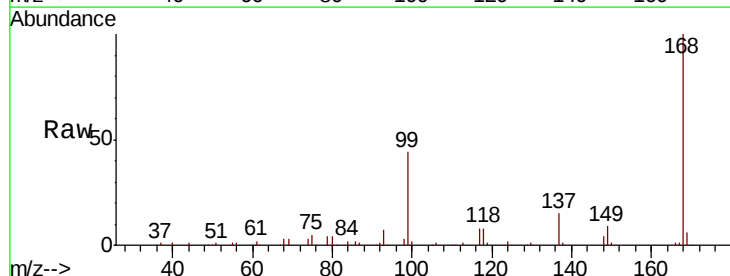
Instrument :
MSVOA_N
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DUP04-20190607

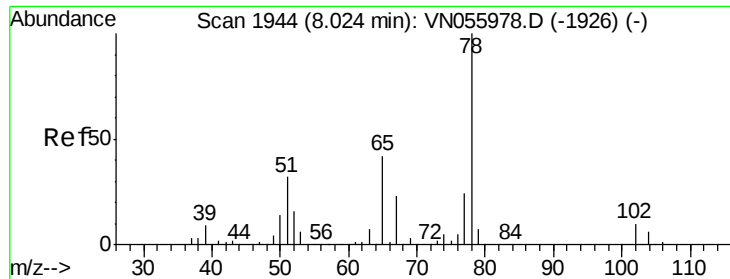
Tot Ion: 43 Resp: 2621
Ion Ratio Lower Upper
43 100
74 6.9 19.3 28.9#



#31
Cyclohexane
Concen: 0.819 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN056251.D
Acq: 12 Jun 2019 16:14

Tgt Ion: 56 Resp: 4046
Ion Ratio Lower Upper
56 100
69 190.2 25.6 38.4#
84 172.3 67.4 101.0#

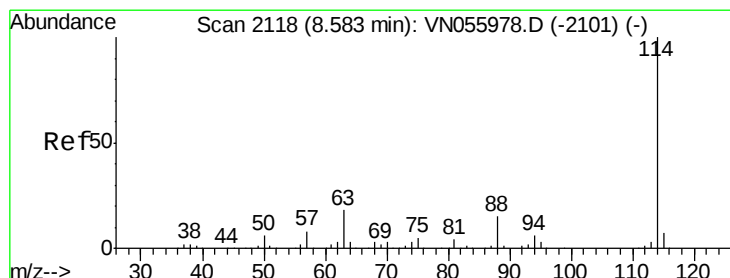
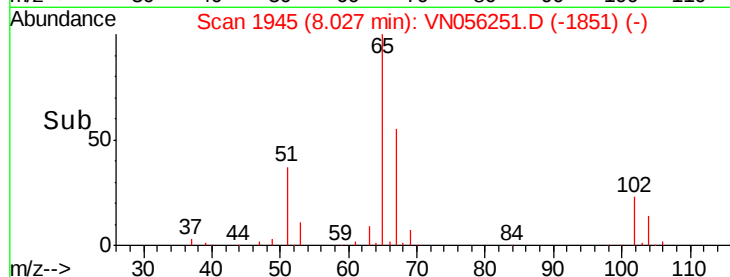
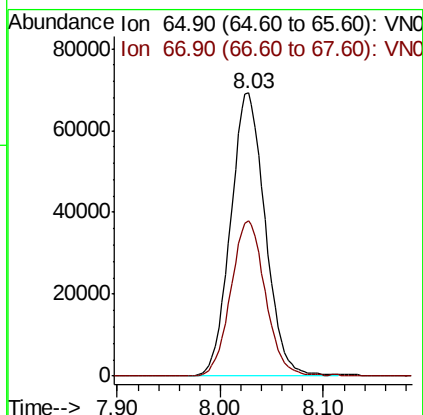
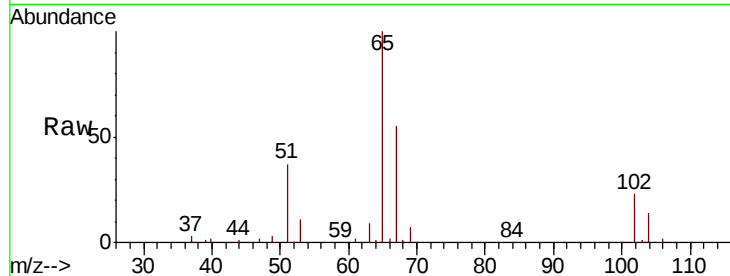




#33
 1,2-Dichloroethane-d4
 Concen: 51.899 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056251.D
 Acq: 12 Jun 2019 16:14

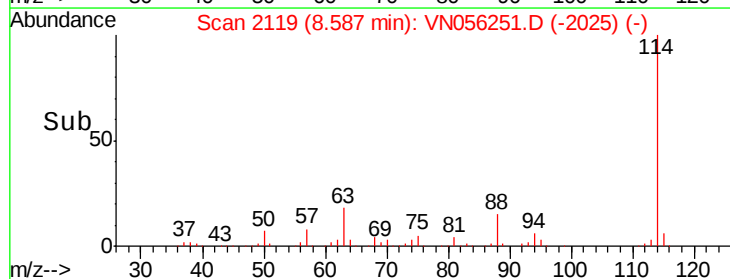
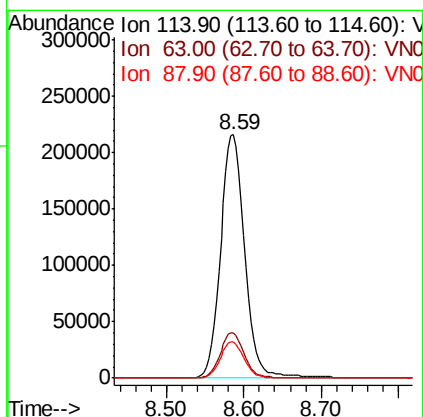
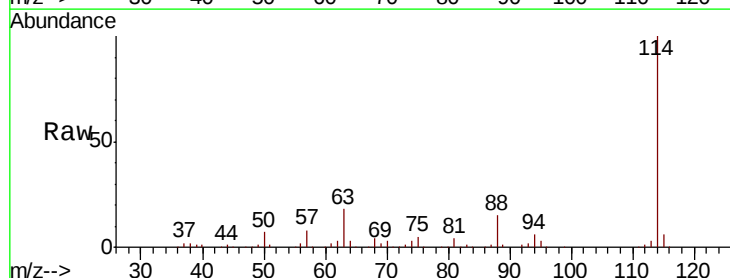
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP04-20190607

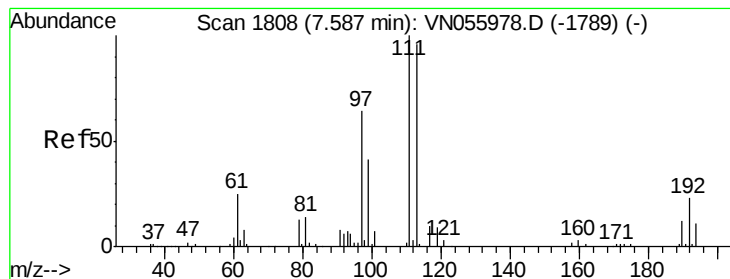
Tot Ion: 65 Resp: 161585
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056251.D
 Acq: 12 Jun 2019 16:14

Tgt Ion: 114 Resp: 470342
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 39.2
 88 14.6 0.0 31.0





#35

Dibromofluoromethane

Concen: 53.227 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

Instrument :

MSVOA_N

ClientSampleId :

DUP04-20190607

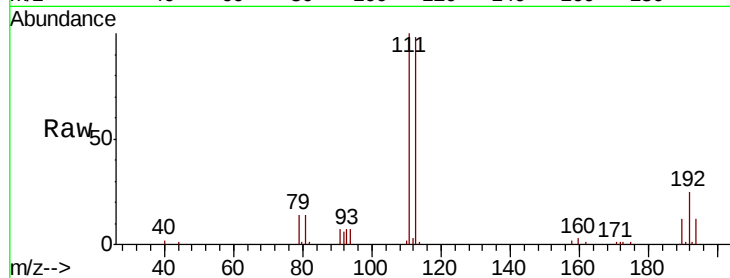
Tot Ion:113 Resp: 153597

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

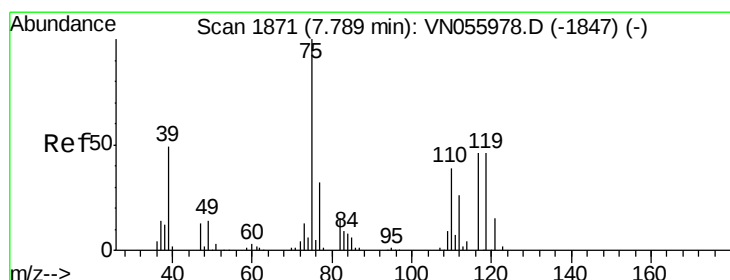
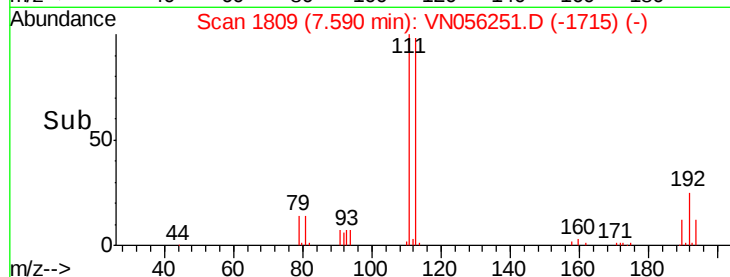
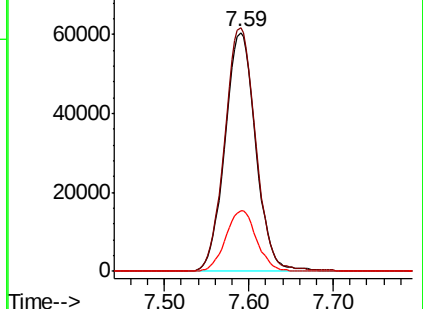
192 25.5 19.5 29.3



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: 4.355 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

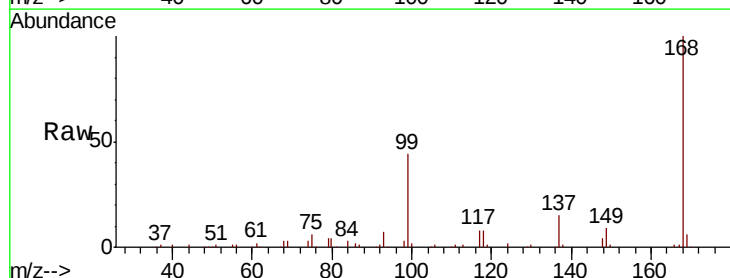
Tgt Ion: 75 Resp: 17613

Ion Ratio Lower Upper

75 100

110 8.2 19.0 57.0#

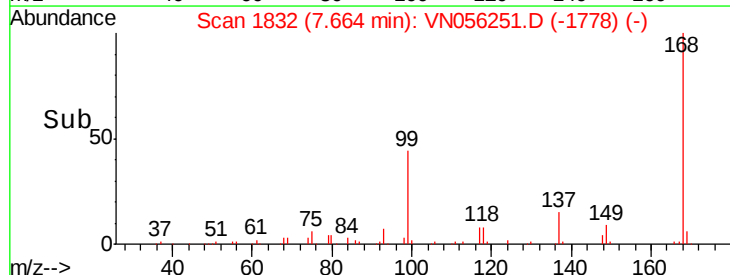
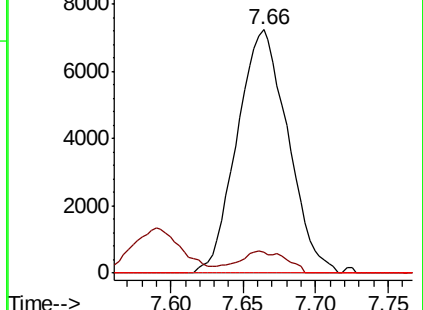
77 0.0 25.1 37.7#

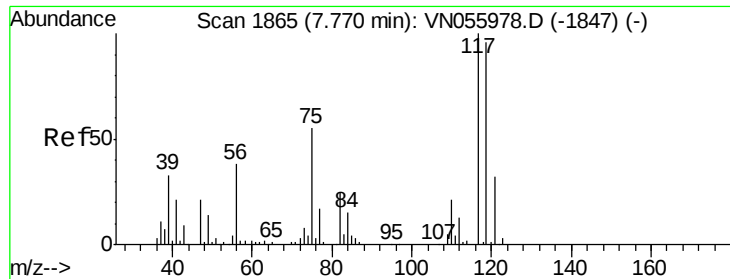


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.597 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

Instrument :

MSVOA_N

ClientSampleId :

DUP04-20190607

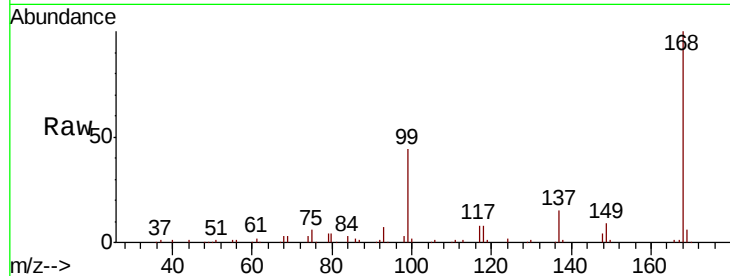
Tot Ion:117 Resp: 24597

Ion Ratio Lower Upper

117 100

119 6.8 79.0 118.6#

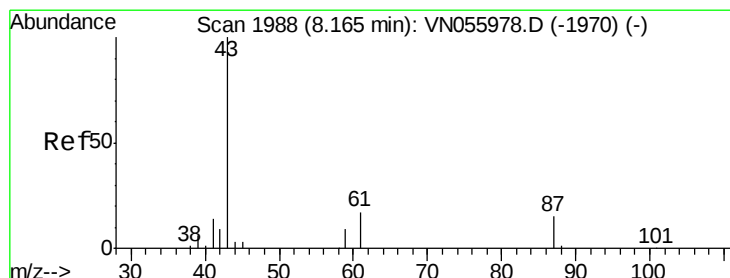
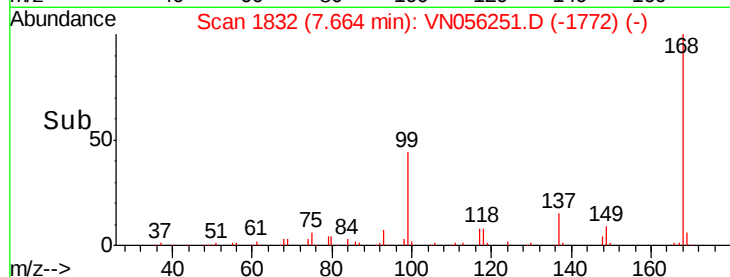
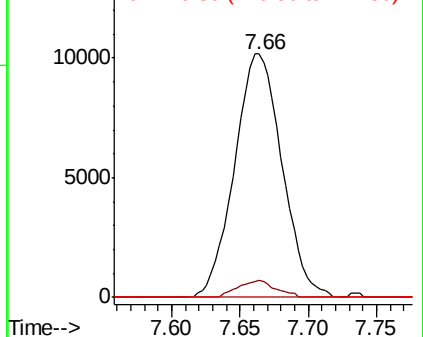
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 0.303 ug/l

RT: 8.36 min Scan# 2048

Delta R.T. 0.19 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

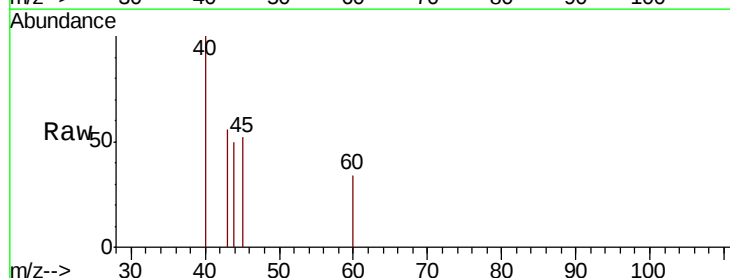
Tgt Ion: 43 Resp: 1764

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

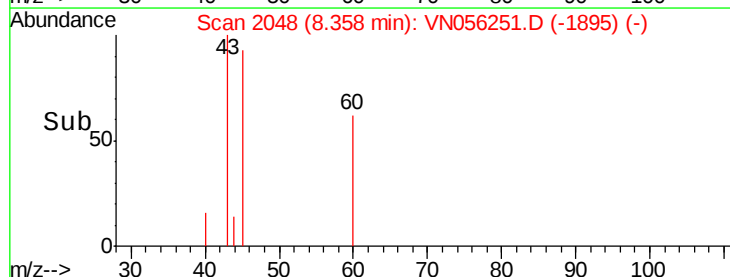
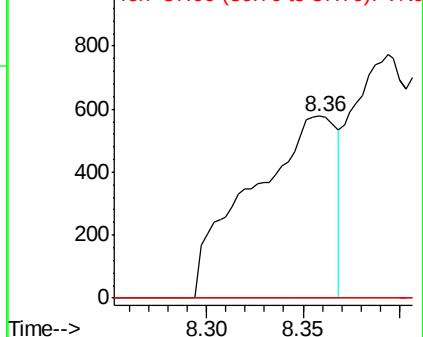
87 0.0 11.4 17.2#

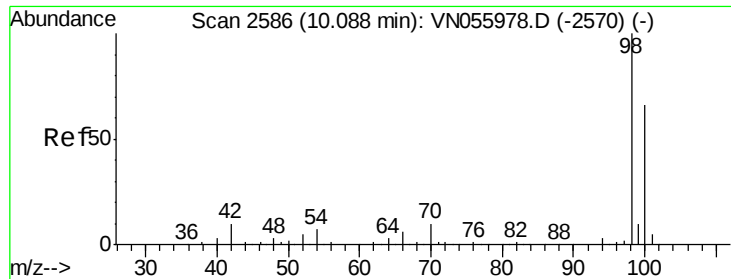


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 53.795 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

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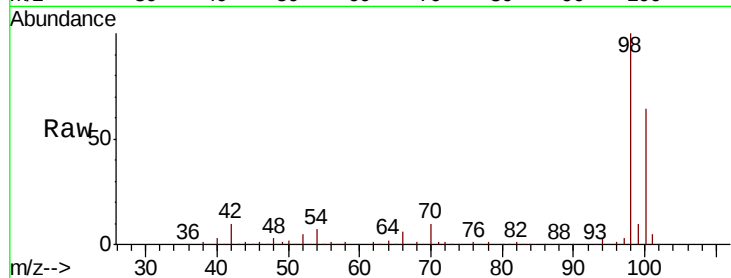
DUP04-20190607

Tot Ion: 98 Resp: 597346

Ion Ratio Lower Upper

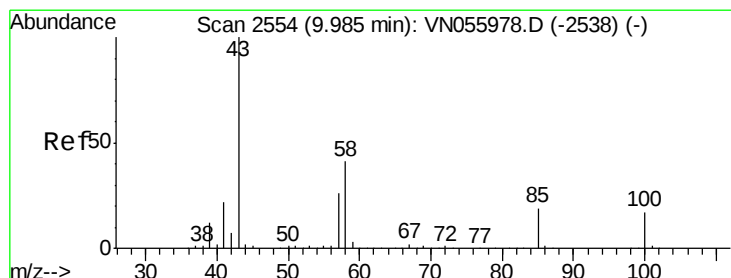
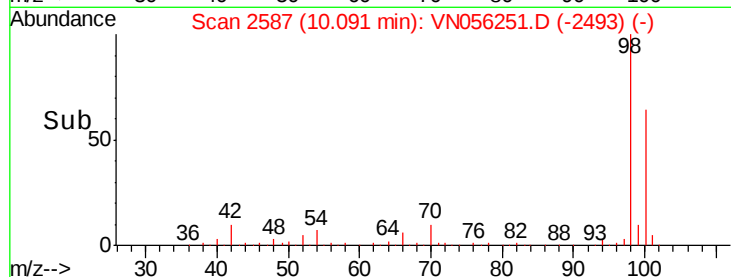
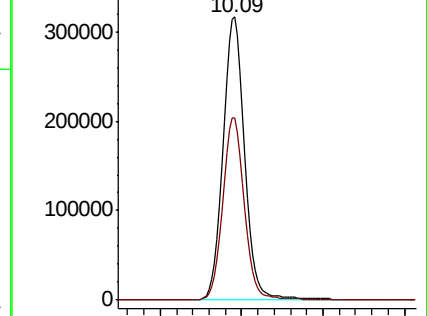
98 100

100 64.5 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.622 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.10 min

Lab File: VN056251.D

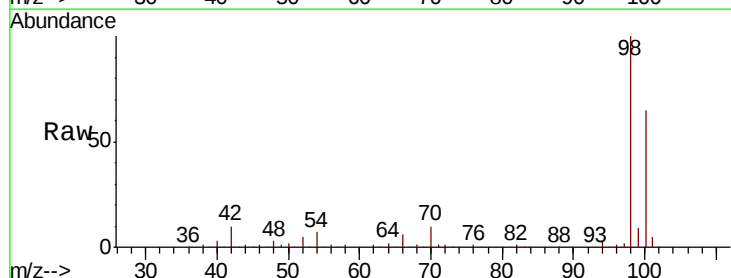
Acq: 12 Jun 2019 16:14

Tgt Ion: 43 Resp: 2268

Ion Ratio Lower Upper

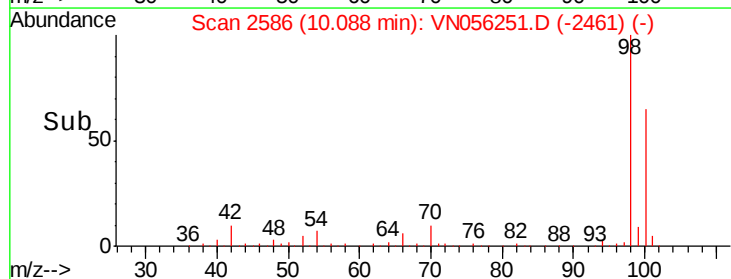
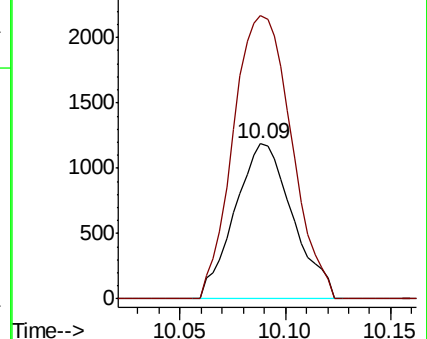
43 100

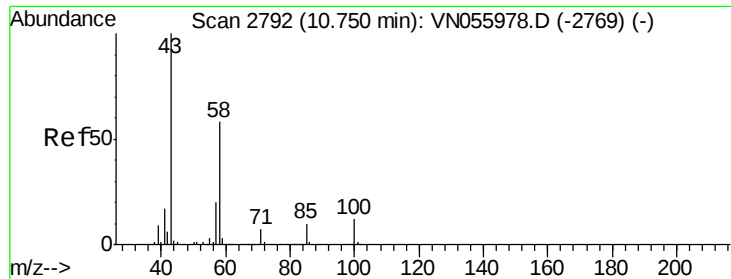
58 183.2 32.1 48.1#



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

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

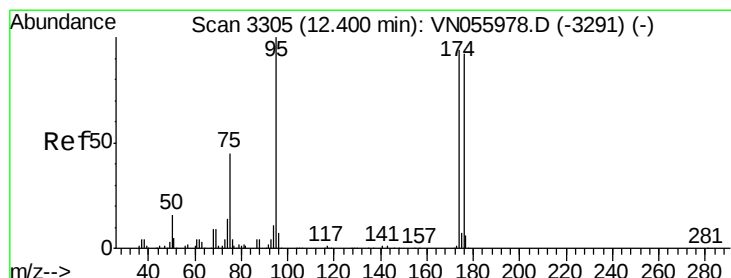
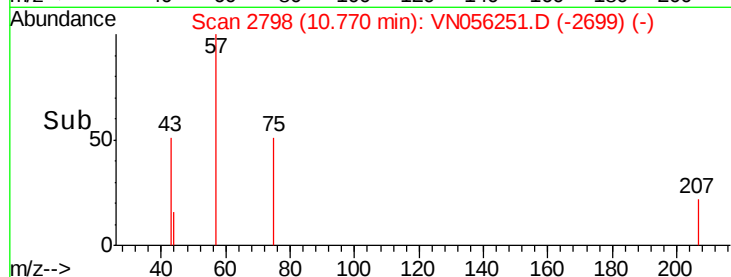
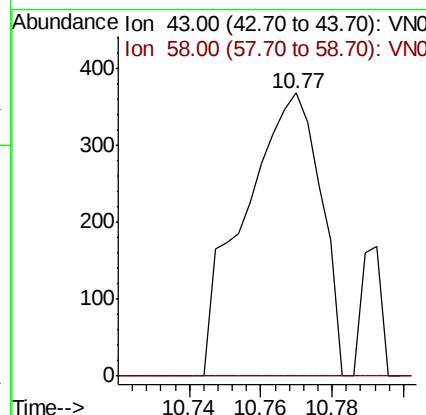
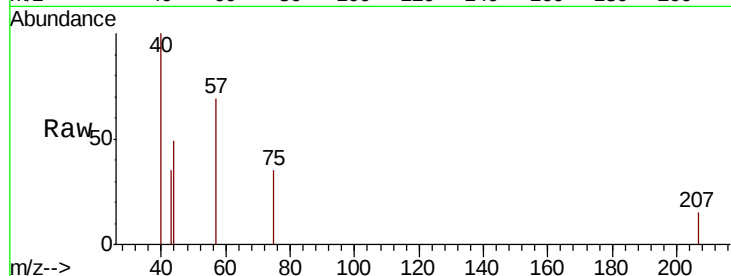




#59
2-Hexanone
Concen: 0.205 ug/l
RT: 10.77 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN056251.D
Acq: 12 Jun 2019 16:14

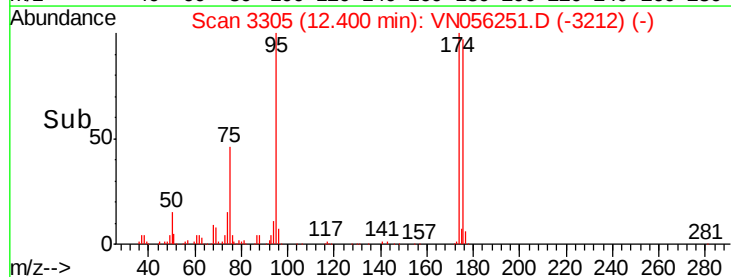
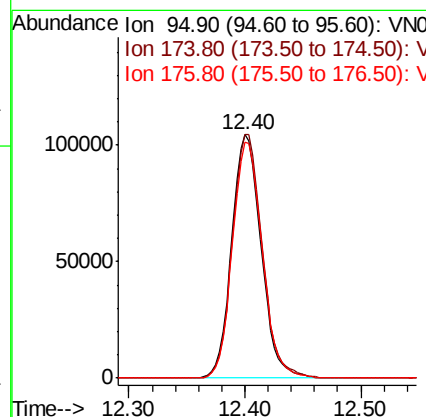
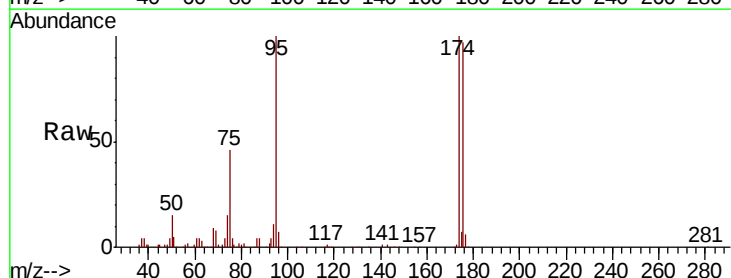
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20190607

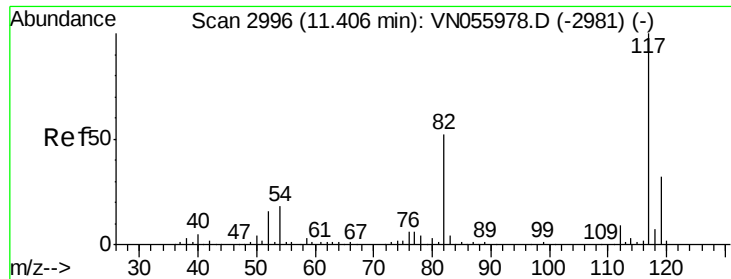
Tot Ion: 43 Resp: 543
Ion Ratio Lower Upper
43 100
58 0.0 28.2 84.7#



#62
4-Bromofluorobenzene
Concen: 48.528 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056251.D
Acq: 12 Jun 2019 16:14

Tgt Ion: 95 Resp: 183256
Ion Ratio Lower Upper
95 100
174 101.7 0.0 191.0
176 98.5 0.0 185.2

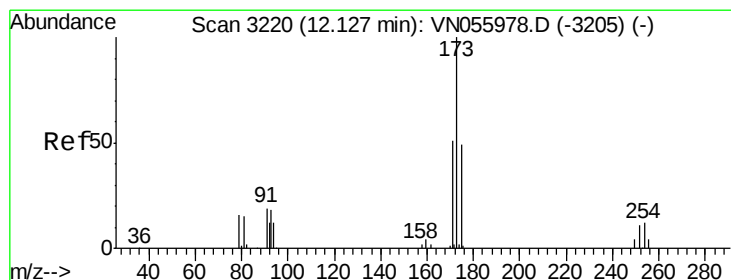
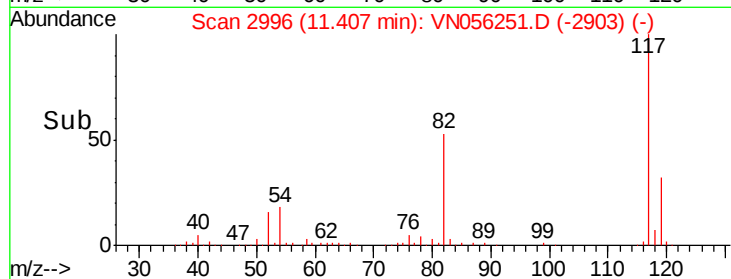
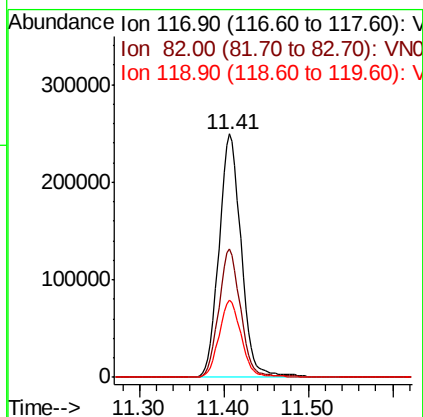
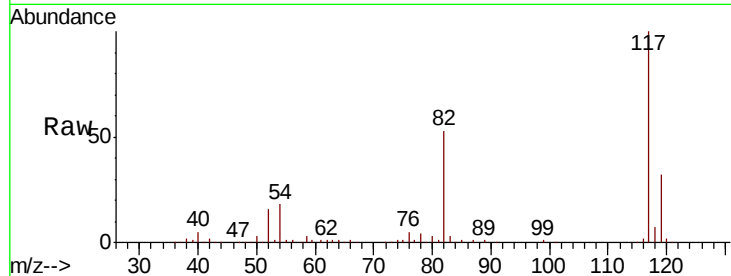




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056251.D
Acq: 12 Jun 2019 16:14

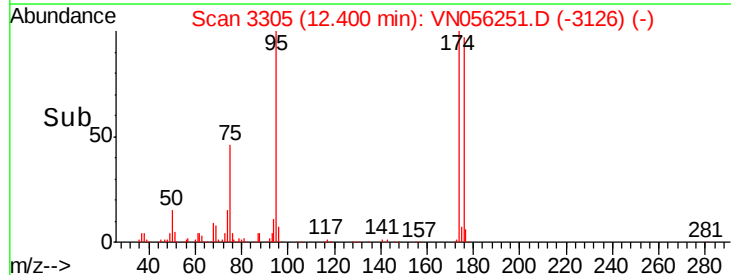
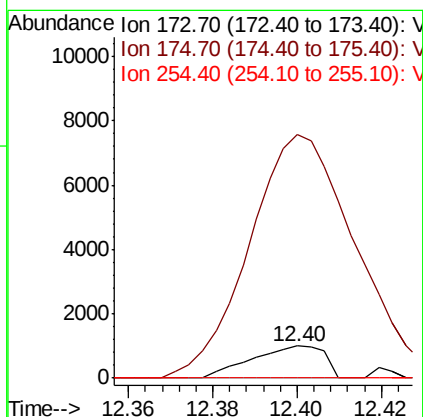
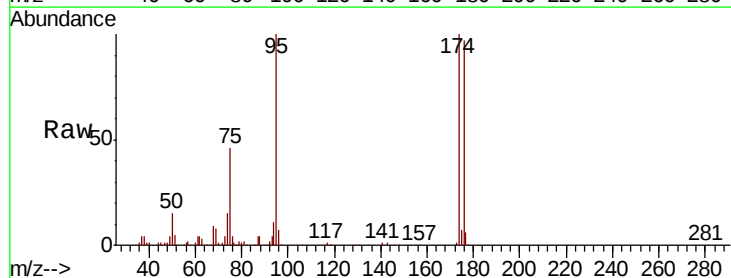
Instrument :
MSVOA_N
ClientSampleId :
DUP04-20190607

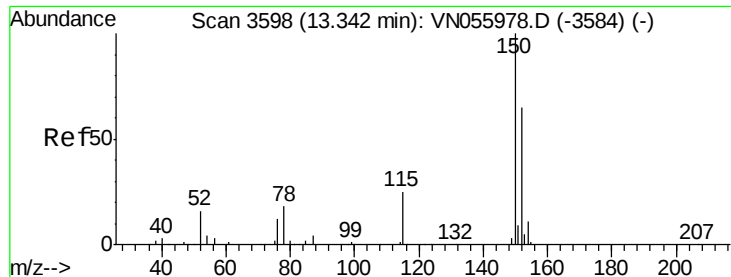
Tot Ion:117 Resp: 455563
Ion Ratio Lower Upper
117 100
82 52.7 41.8 62.8
119 31.5 25.4 38.0



#71
Bromoform
Concen: 3.173 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056251.D
Acq: 12 Jun 2019 16:14

Tgt Ion:173 Resp: 1197
Ion Ratio Lower Upper
173 100
175 943.9 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

Instrument :

MSVOA_N

ClientSampleId :

DUP04-20190607

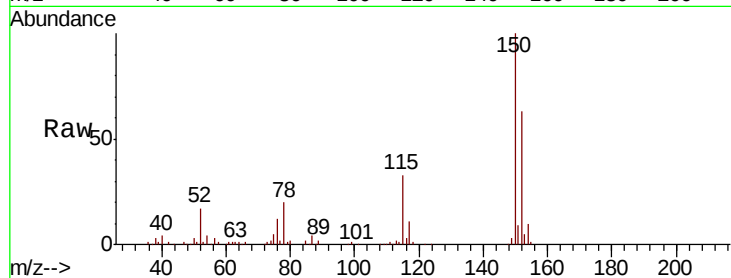
Tot Ion:152 Resp: 142186

Ion Ratio Lower Upper

152 100

115 52.1 27.0 81.0

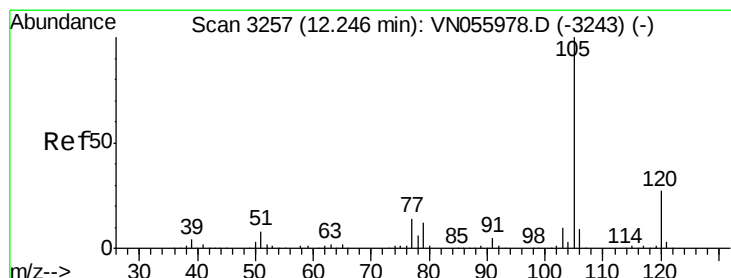
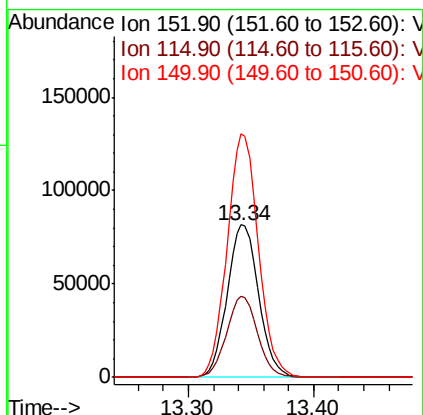
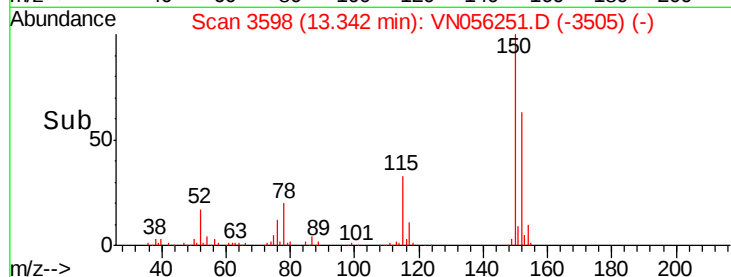
150 157.8 0.0 343.2



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: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN056251.D

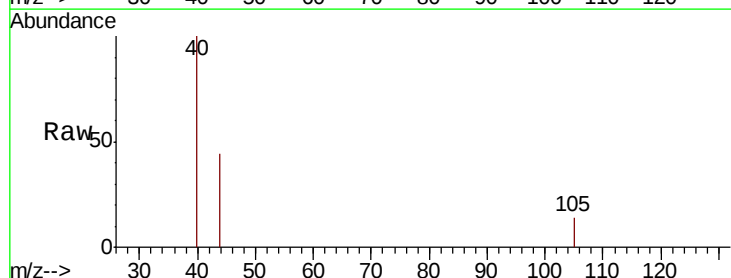
Acq: 12 Jun 2019 16:14

Tgt Ion:105 Resp: 61

Ion Ratio Lower Upper

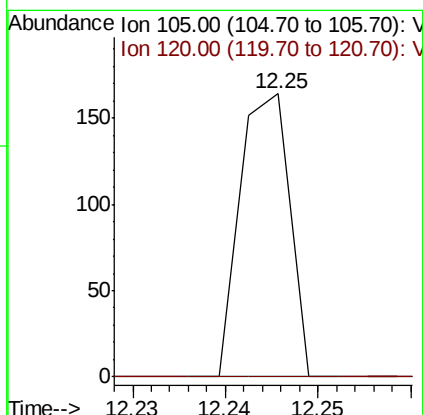
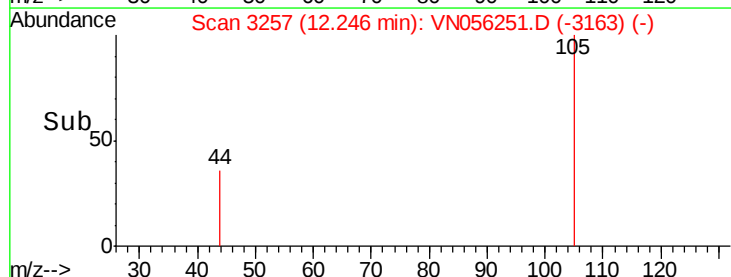
105 100

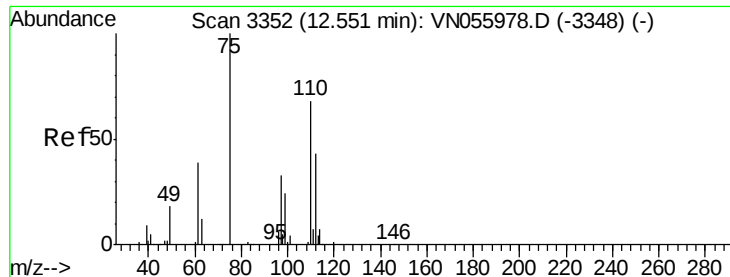
120 0.0 13.6 40.7#



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: 32.578 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

Instrument :

MSVOA_N

ClientSampleId :

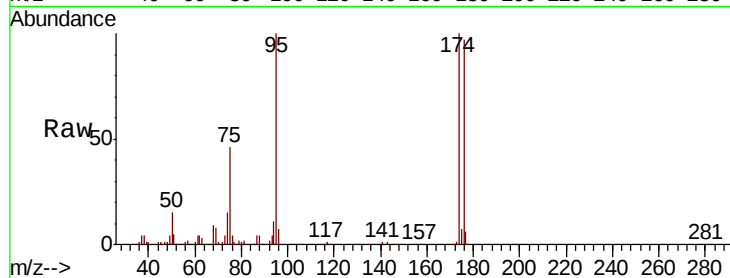
DUP04-20190607

Tot Ion: 75 Resp: 85234

Ion Ratio Lower Upper

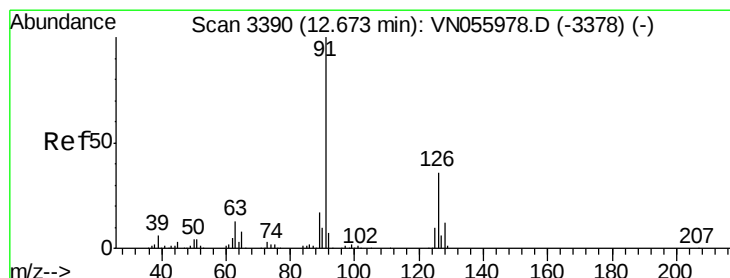
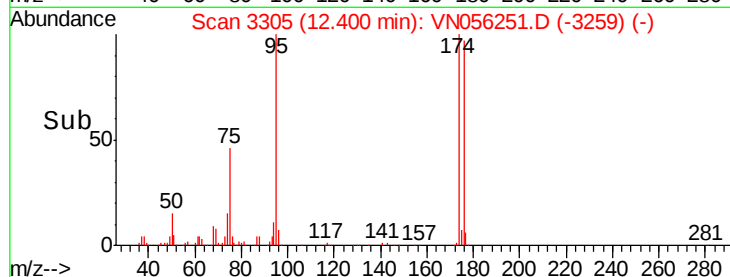
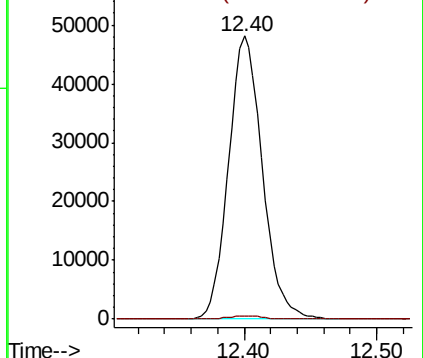
75 100

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: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056251.D

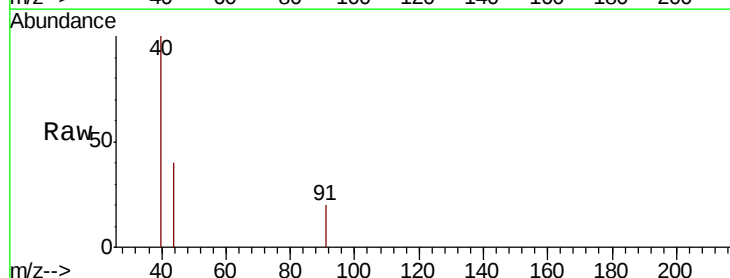
Acq: 12 Jun 2019 16:14

Tgt Ion: 91 Resp: 199

Ion Ratio Lower Upper

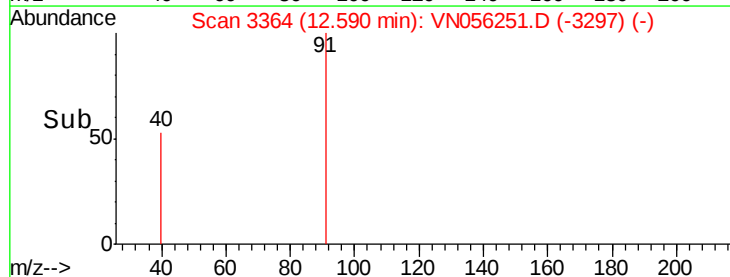
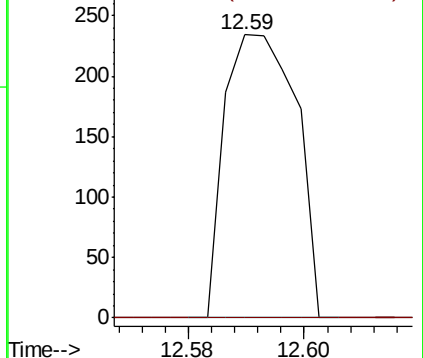
91 100

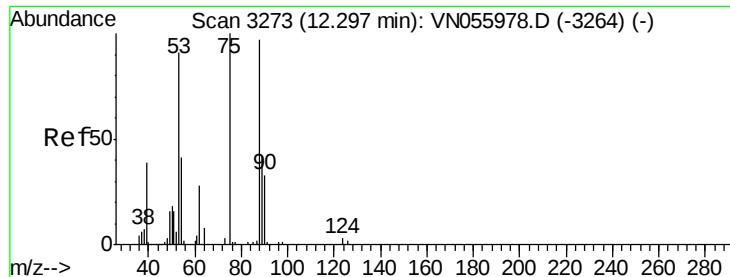
126 0.0 18.1 54.4#



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: 108.492 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

Instrument :

MSVOA_N

ClientSampleId :

DUP04-20190607

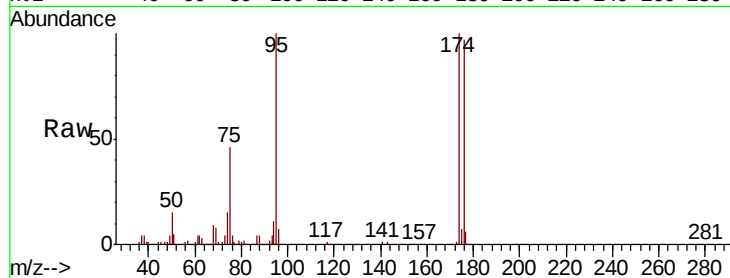
Tot Ion: 75 Resp: 85234

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

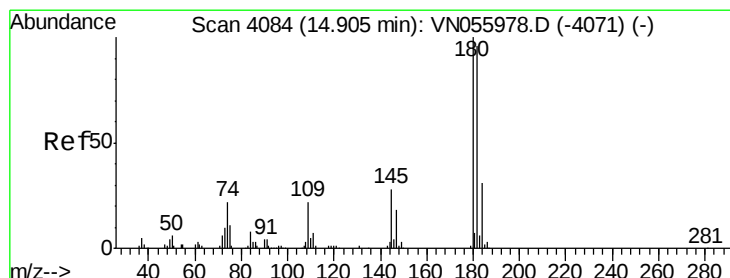
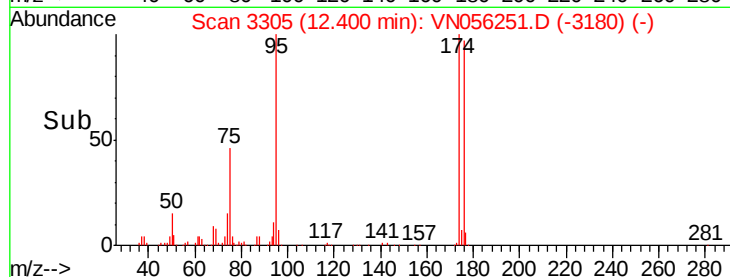
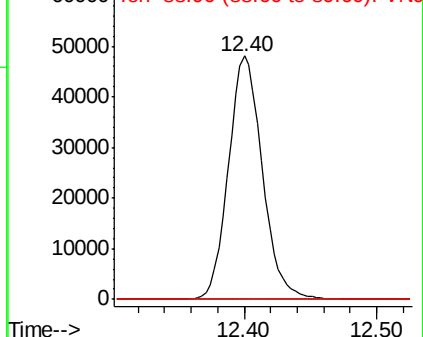
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#93

1,2,4-Trichlorobenzene

Concen: 4.345 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. 0.00 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

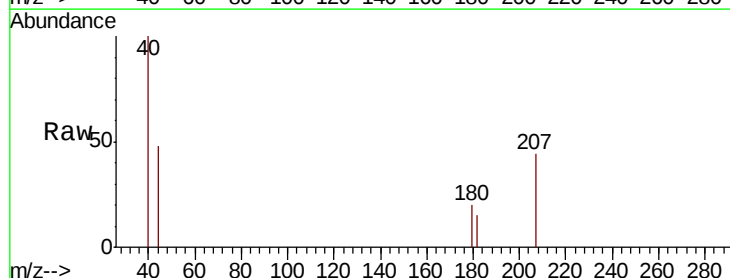
Tgt Ion: 180 Resp: 216

Ion Ratio Lower Upper

180 100

182 45.8 48.3 144.9#

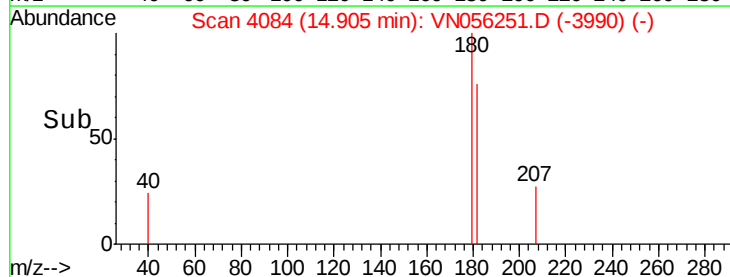
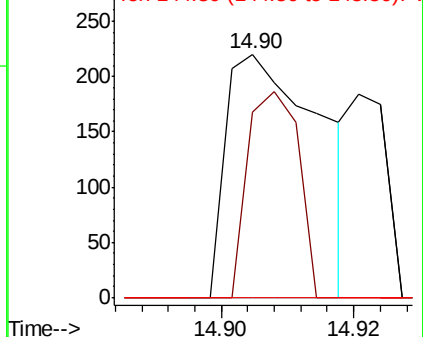
145 0.0 14.0 41.9#

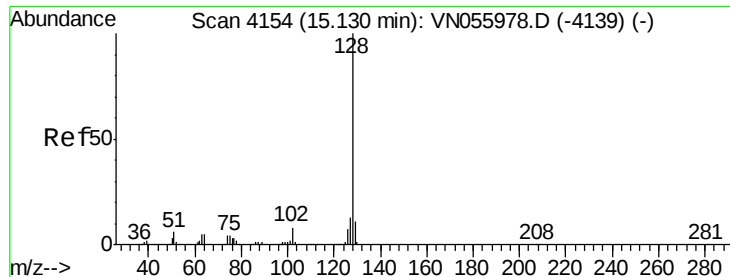


Abundance Ion 179.80 (179.50 to 180.50): VN055978.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN055978.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN055978.D (-4071) (-)





#95

Naphthalene

Concen: 3.936 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

Instrument :

MSVOA_N

ClientSampleId :

DUP04-20190607

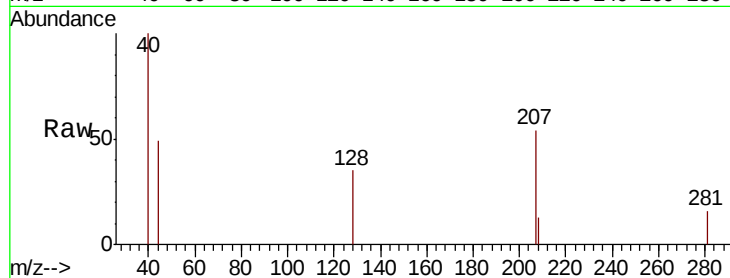
Tot Ion:128 Resp: 623

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

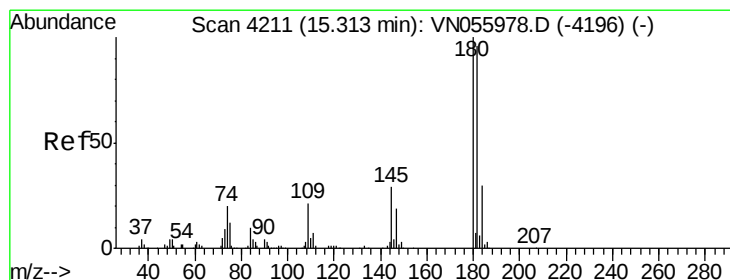
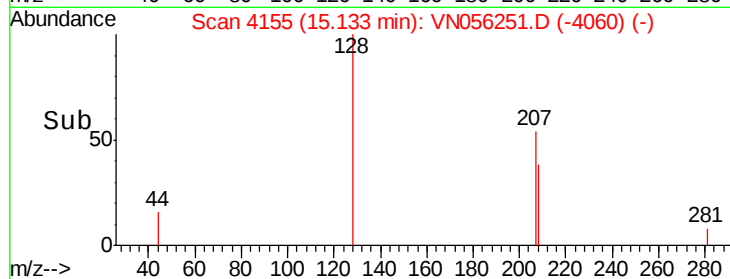
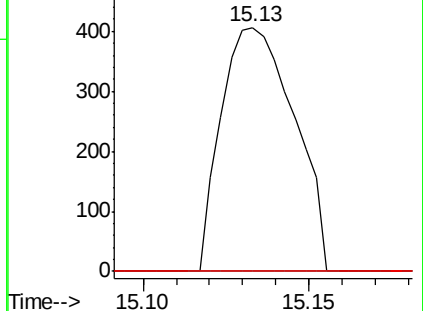
129 0.0 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 3.158 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN056251.D

Acq: 12 Jun 2019 16:14

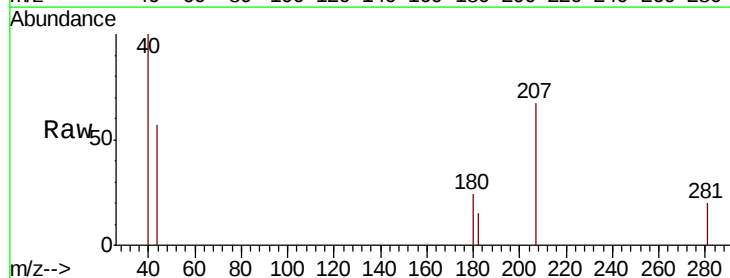
Tgt Ion:180 Resp: 360

Ion Ratio Lower Upper

180 100

182 86.1 47.9 143.7

145 0.0 14.9 44.7#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

