

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056718.D
 Acq On : 15 Jul 2019 17:36
 Operator : JC/SP
 Sample : K3817-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20190709

Quant Time: Jul 16 04:24:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	267916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	468945	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	490925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	191228	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	155969	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
35) Dibromofluoromethane	7.59	113	141730	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
50) Toluene-d8	10.09	98	592744	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
62) 4-Bromofluorobenzene	12.40	95	214561	56.45	ug/l	0.00
Spiked Amount			Recovery	=	112.90%	

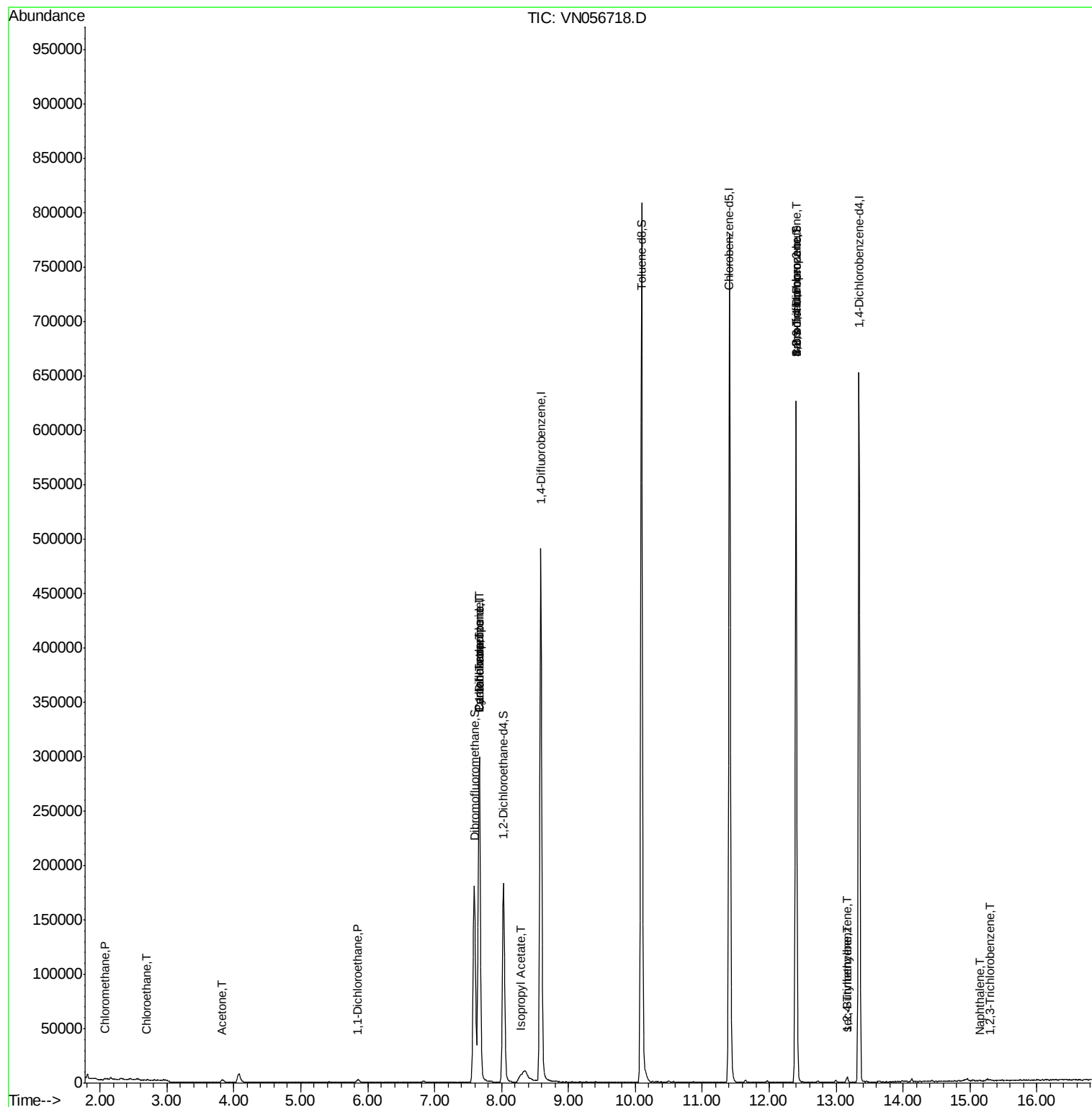
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	977	0.289	ug/l	95
6) Chloroethane	2.70	64	955	0.503	ug/l	98
16) Acetone	3.83	43	4160	3.046	ug/l	99
18) Methyl Acetate	4.34	43	185	Below Cal	#	52
24) 1,1-Dichloroethane	5.85	63	4964	0.996	ug/l #	83
31) Cyclohexane	7.66	56	4554	0.961	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	17555	4.045	ug/l #	49
38) Carbon Tetrachloride	7.67	117	22951	5.640	ug/l #	17
43) Isopropyl Acetate	8.27	43	4534	0.674	ug/l #	53
71) Bromoform	12.40	173	1627	0.579	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	102923	24.608	ug/l #	100
79) 2-Chlorotoluene	12.59	91	290	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	102923	75.999	ug/l #	13
83) tert-Butylbenzene	12.99	119	1138	Below Cal		92
84) 1,2,4-Trimethylbenzene	13.17	105	3616	0.283	ug/l #	30
85) sec-Butylbenzene	13.17	105	3616	0.249	ug/l	87
95) Naphthalene	15.13	128	239	4.547	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	135	3.357	ug/l #	1

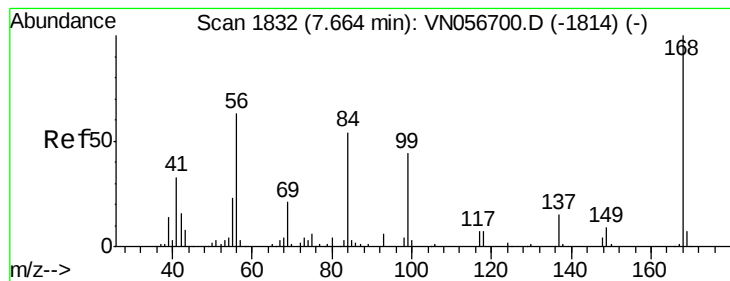
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 16 01:25:25 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

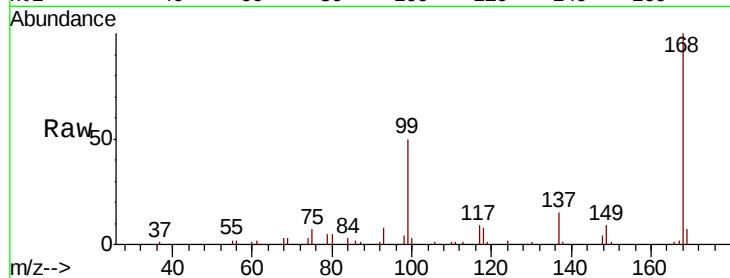
DUP01-20190709

Tot Ion:168 Resp: 267916

Ion Ratio Lower Upper

168 100

99 50.0 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

120000

100000

80000

60000

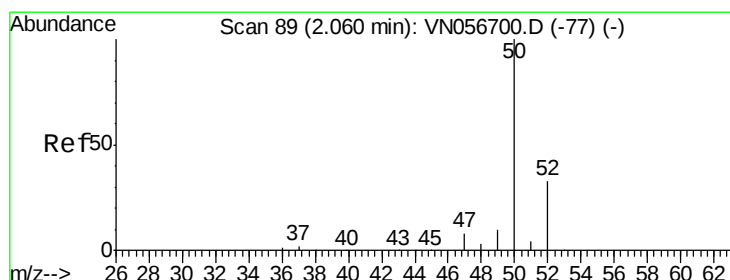
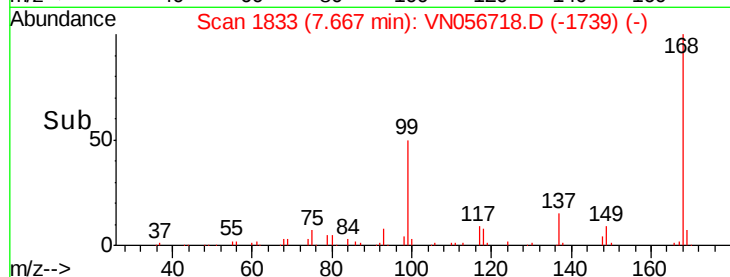
40000

20000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: 0.289 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN056718.D

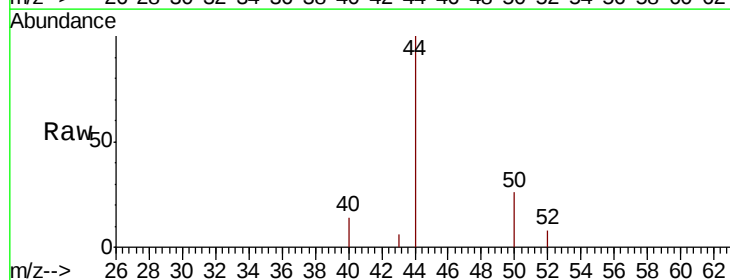
Acq: 15 Jul 2019 17:36

Tgt Ion: 50 Resp: 977

Ion Ratio Lower Upper

50 100

52 30.5 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

800

600

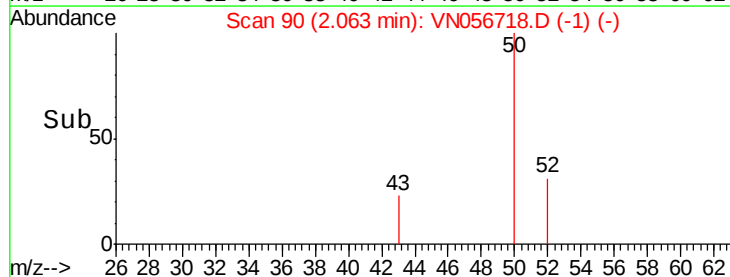
400

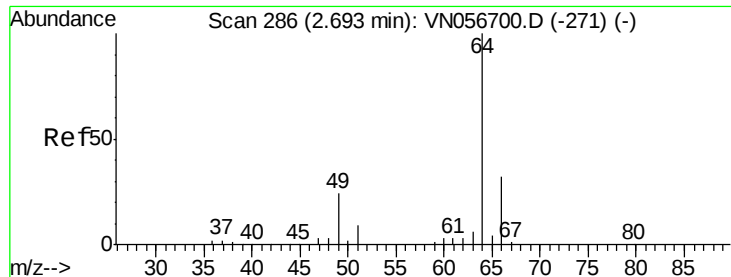
200

0

Time-->

2.02 2.04 2.06 2.08





#6

Chloroethane

Concen: 0.503 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.01 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

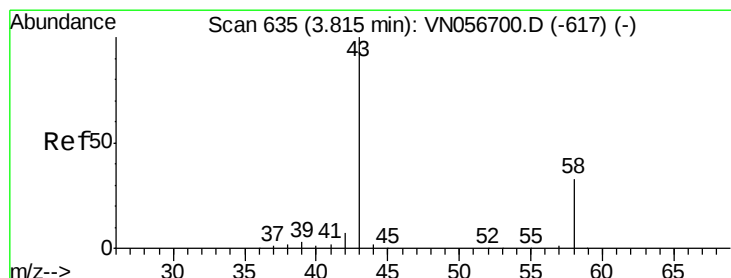
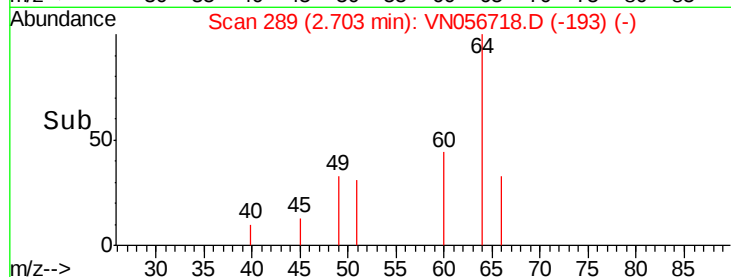
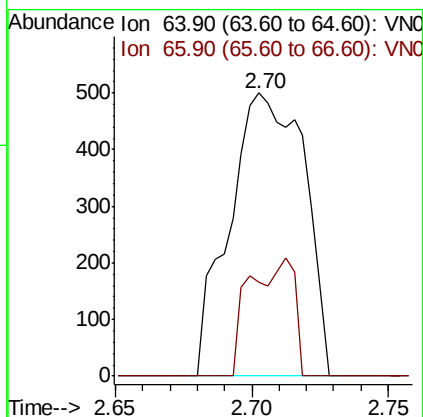
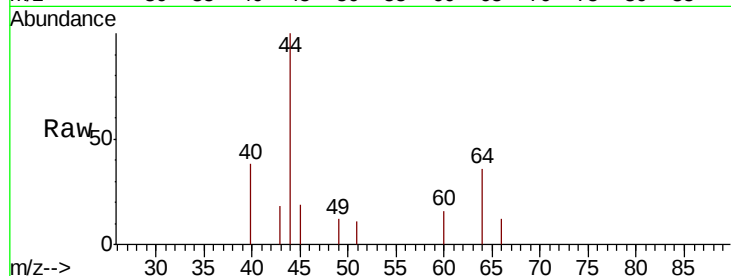
DUP01-20190709

Tot Ion: 64 Resp: 955

Ion Ratio Lower Upper

64 100

66 33.2 25.8 38.8



#16

Acetone

Concen: 3.046 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056718.D

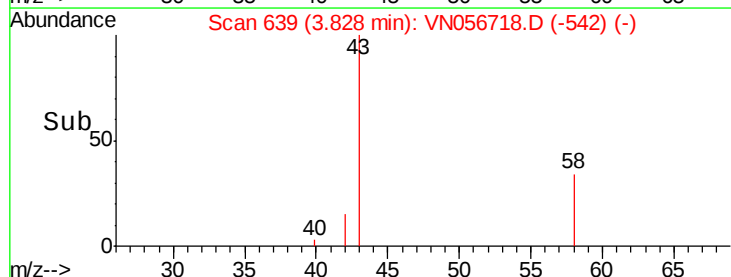
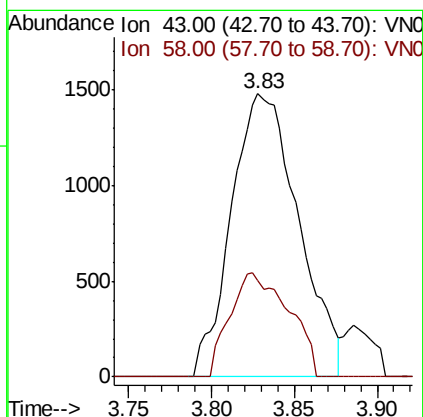
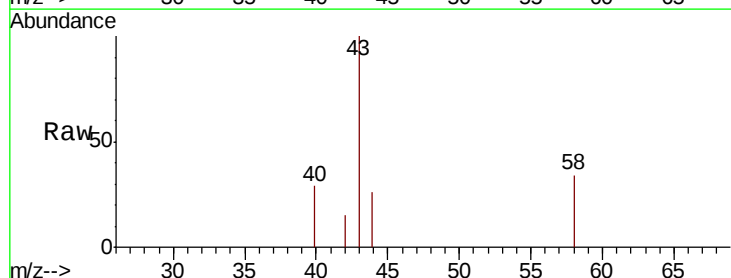
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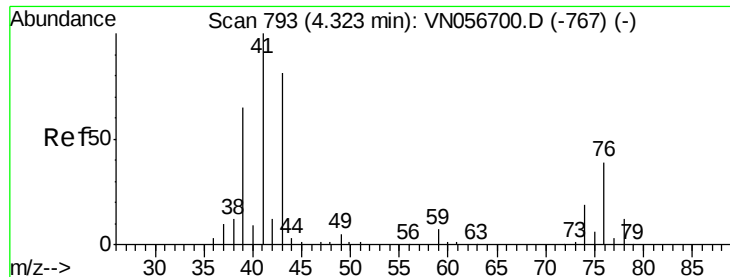
Tgt Ion: 43 Resp: 4160

Ion Ratio Lower Upper

43 100

58 34.0 26.7 40.1

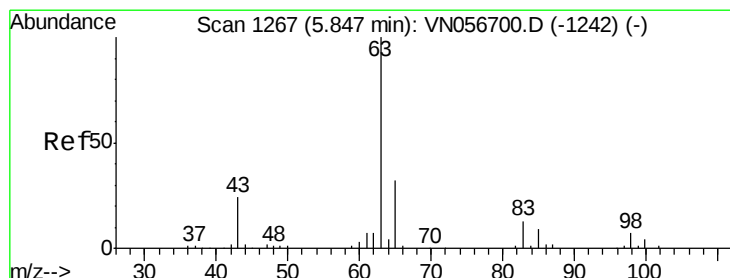
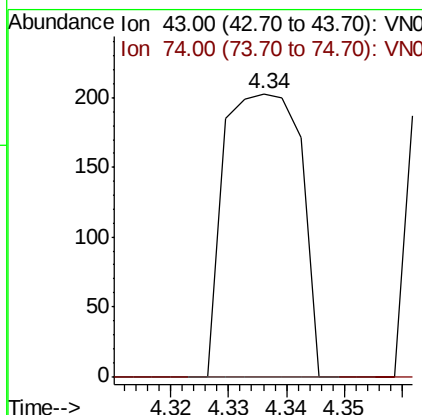
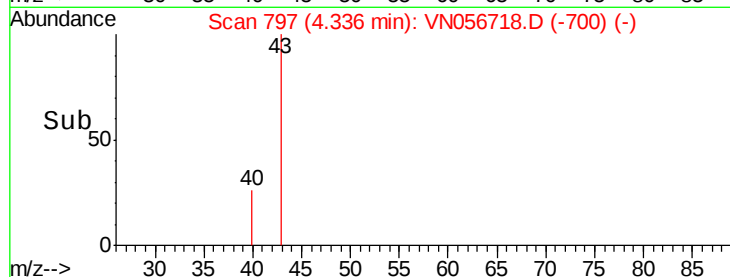
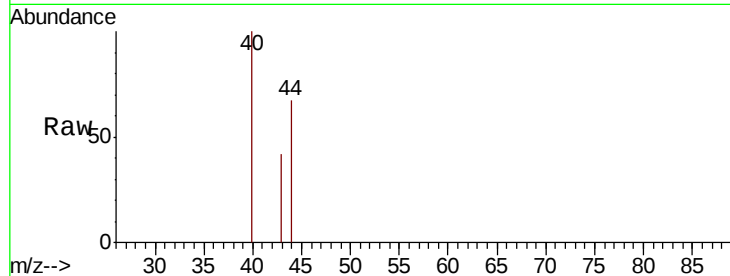




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056718.D
Acq: 15 Jul 2019 17:36

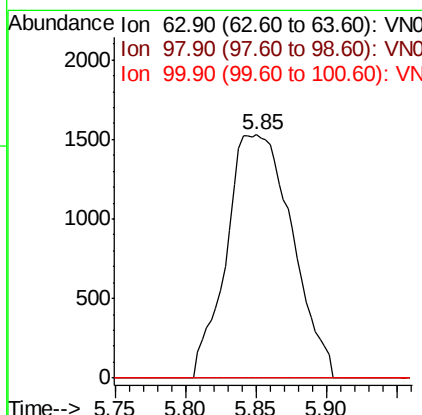
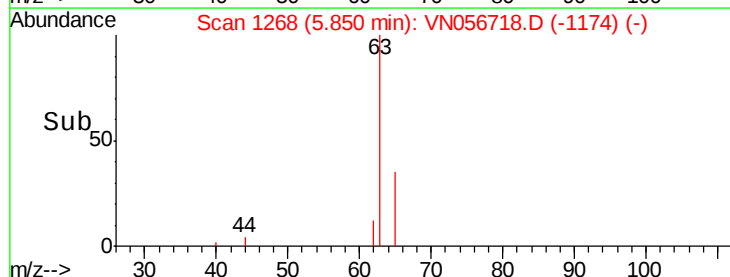
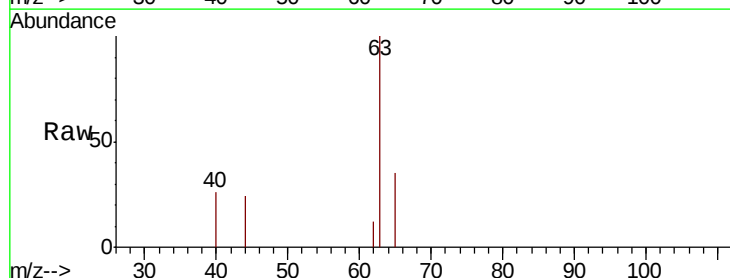
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20190709

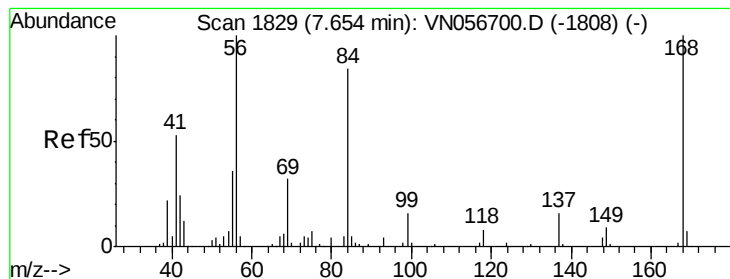
Tot Ion: 43 Resp: 185
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#24
1,1-Dichloroethane
Concen: 0.996 ug/l
RT: 5.85 min Scan# 1268
Delta R.T. 0.00 min
Lab File: VN056718.D
Acq: 15 Jul 2019 17:36

Tgt Ion: 63 Resp: 4964
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.9#
100 0.0 2.0 5.8#





#31

Cyclohexane

Concen: 0.961 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20190709

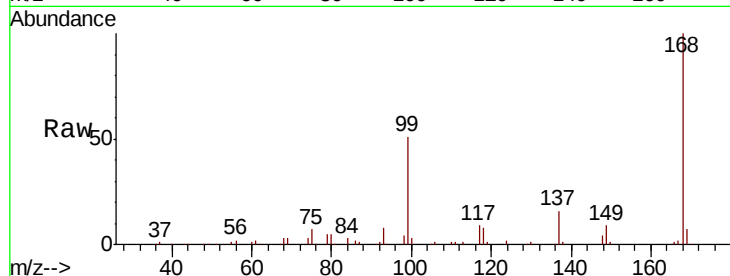
Tot Ion: 56 Resp: 4554

Ion Ratio Lower Upper

56 100

69 167.2 25.8 38.8#

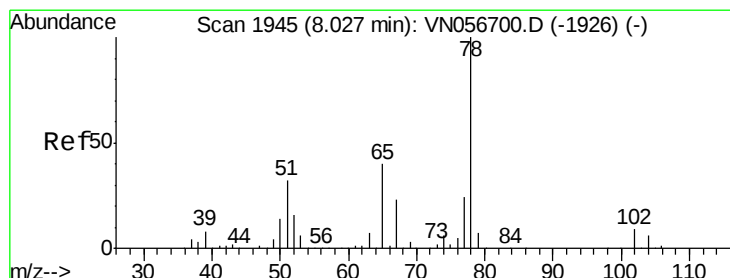
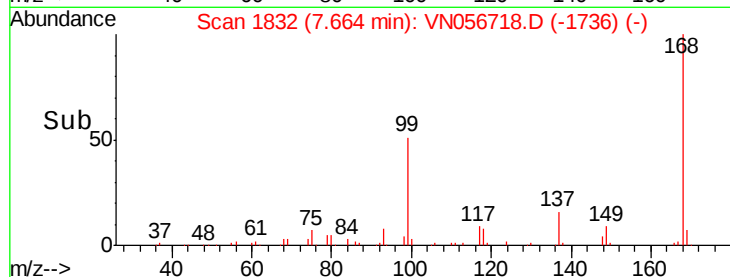
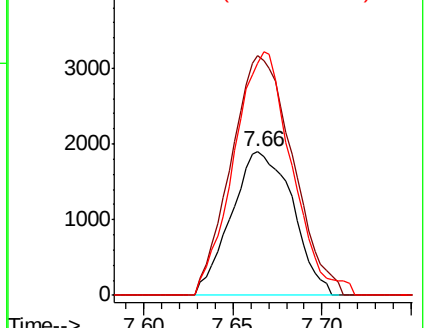
84 161.5 67.4 101.0#



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: 52.630 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056718.D

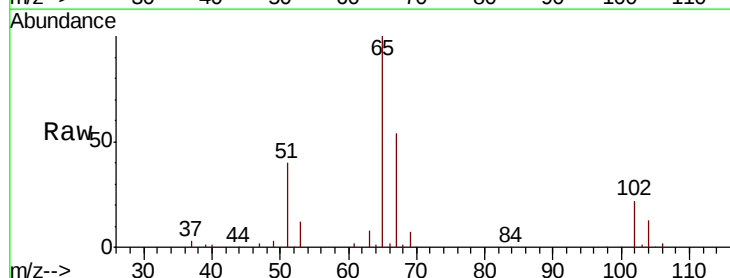
Acq: 15 Jul 2019 17:36

Tgt Ion: 65 Resp: 155969

Ion Ratio Lower Upper

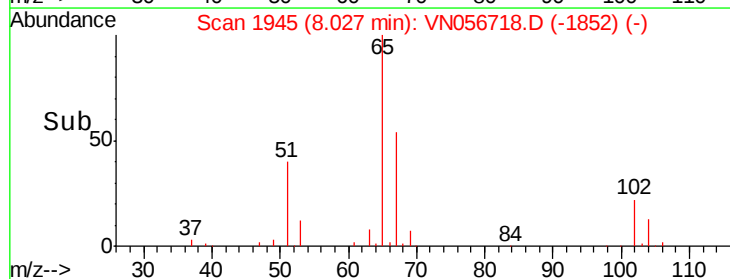
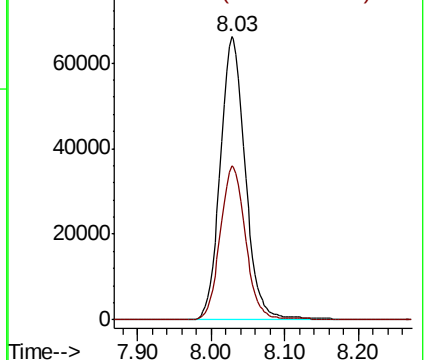
65 100

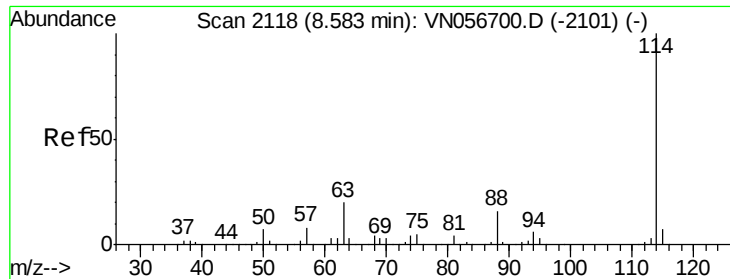
67 54.8 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

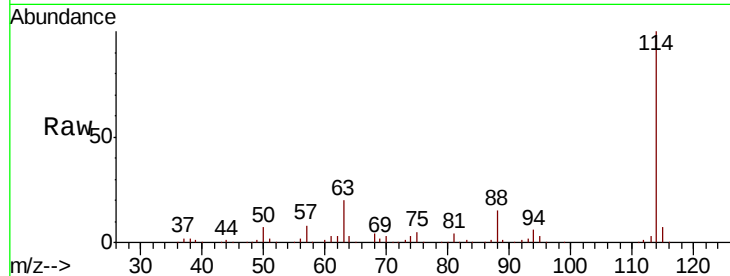




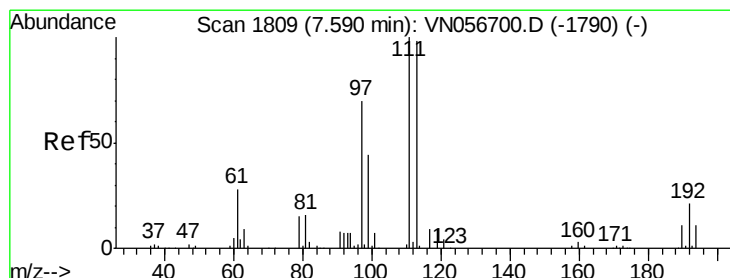
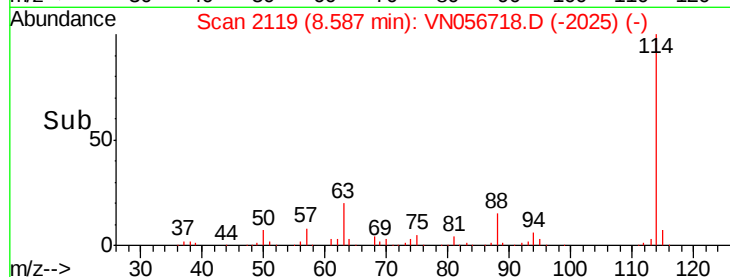
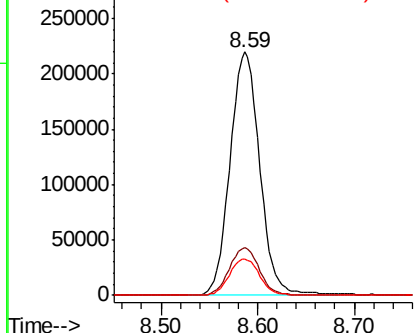
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056718.D
 Acq: 15 Jul 2019 17:36

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20190709

Tot Ion:114 Resp: 468945
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.4
 88 14.9 0.0 31.2

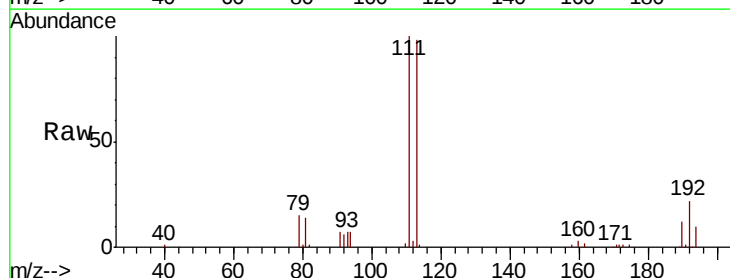


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

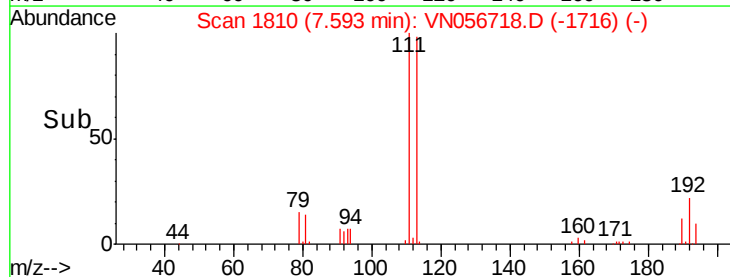
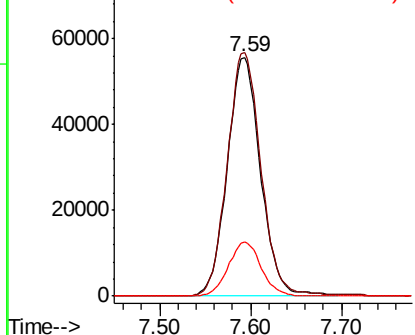


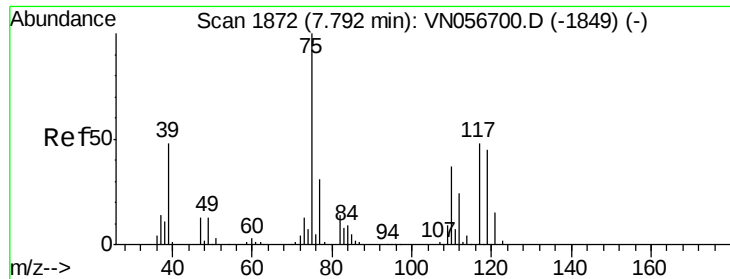
#35
 Dibromofluoromethane
 Concen: 48.565 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056718.D
 Acq: 15 Jul 2019 17:36

Tgt Ion:113 Resp: 141730
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.8 122.6
 192 22.2 17.5 26.3



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

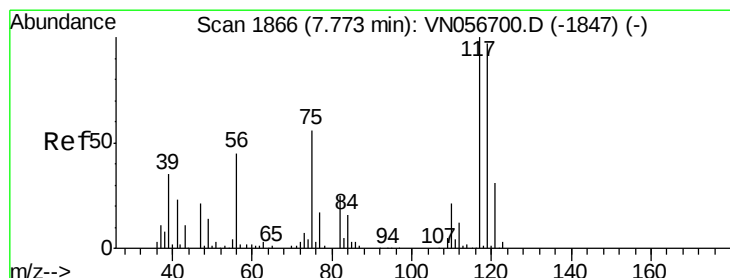
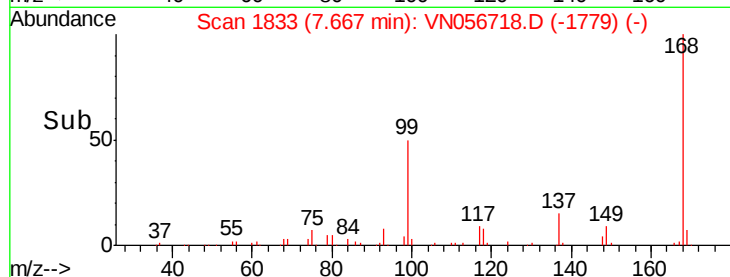
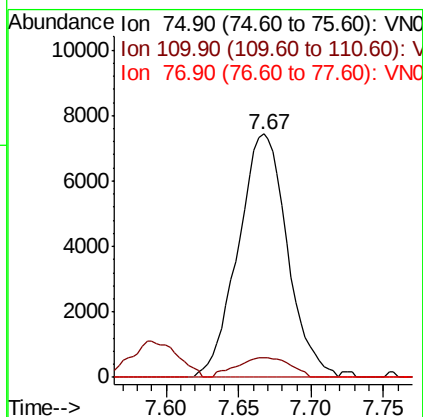
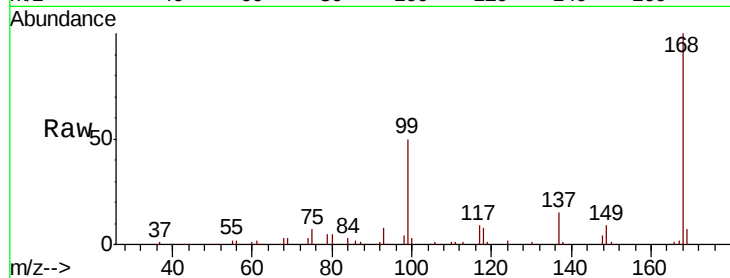




#36
 1,1-Dichloropropene
 Concen: 4.045 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN056718.D
 Acq: 15 Jul 2019 17:36

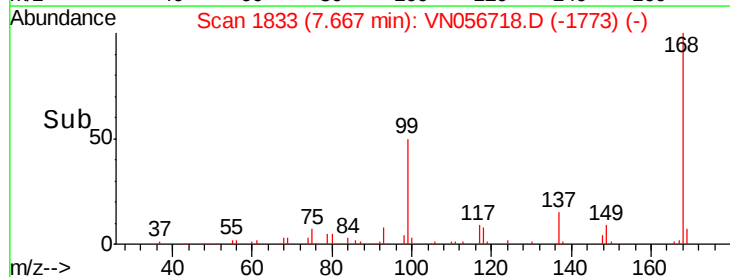
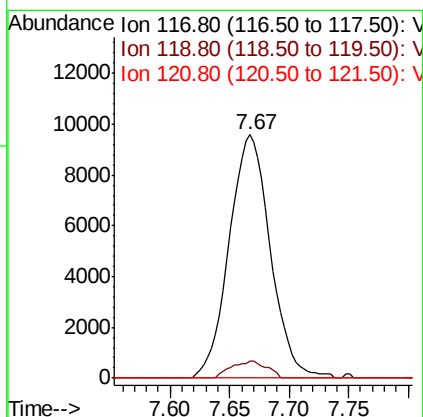
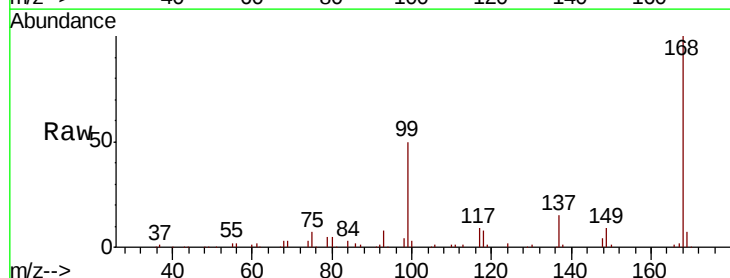
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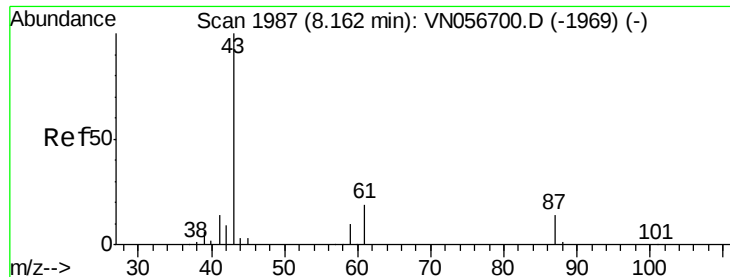
Tot Ion	75	Resp	17555
Ion Ratio	Lower	Upper	
75	100		
110	8.9	18.4	55.4#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.640 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056718.D
 Acq: 15 Jul 2019 17:36

Tgt Ion	117	Resp	22951
Ion Ratio	Lower	Upper	
117	100		
119	6.8	77.5	116.3#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 0.674 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20190709

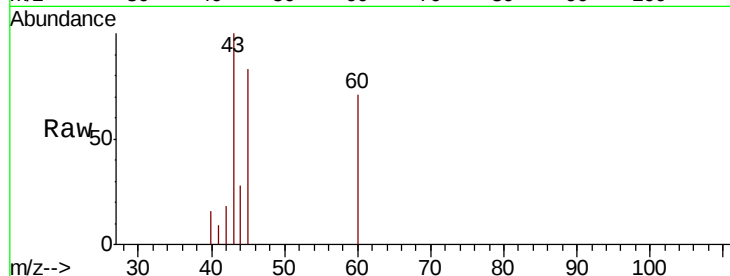
Tot Ion: 43 Resp: 4534

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

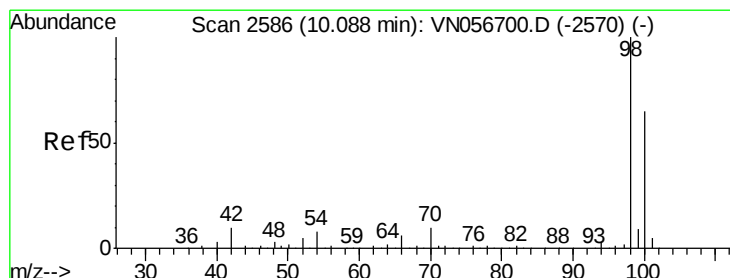
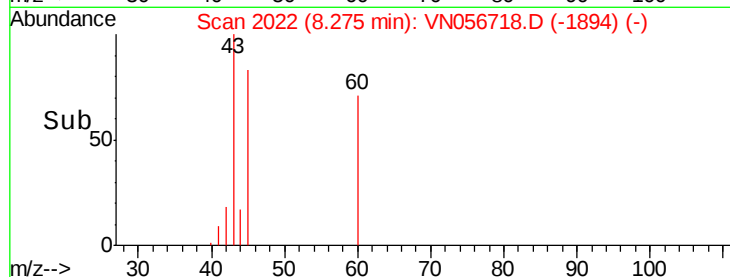
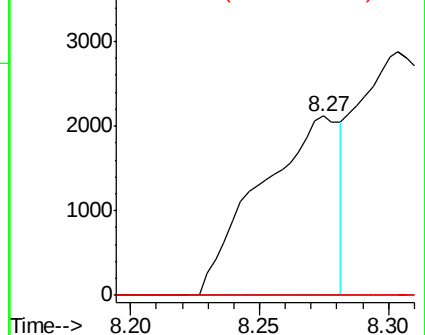
87 0.0 11.1 16.7#



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: 52.589 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056718.D

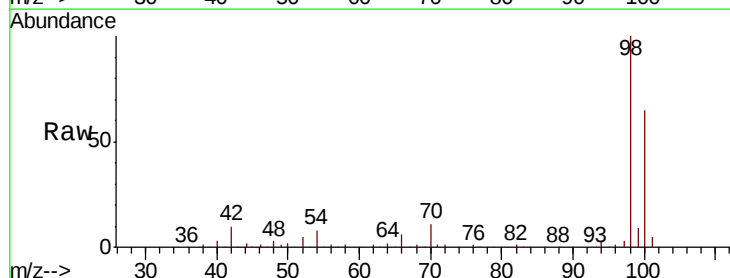
Acq: 15 Jul 2019 17:36

Tgt Ion: 98 Resp: 592744

Ion Ratio Lower Upper

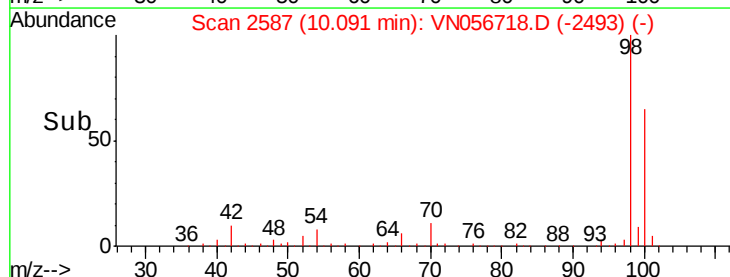
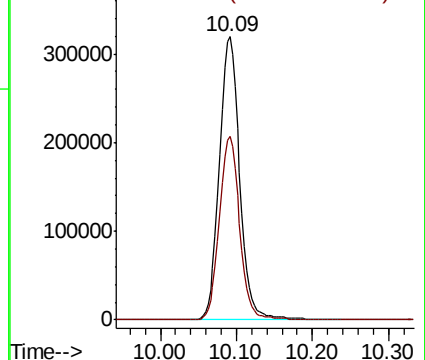
98 100

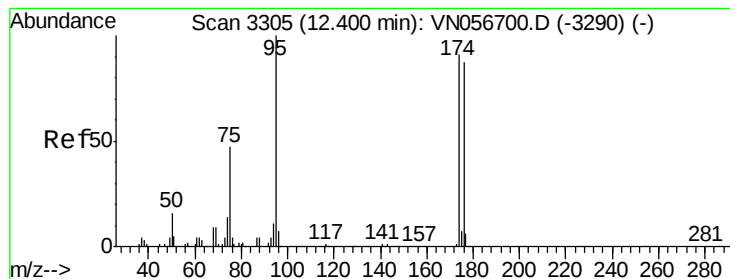
100 64.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 56.448 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20190709

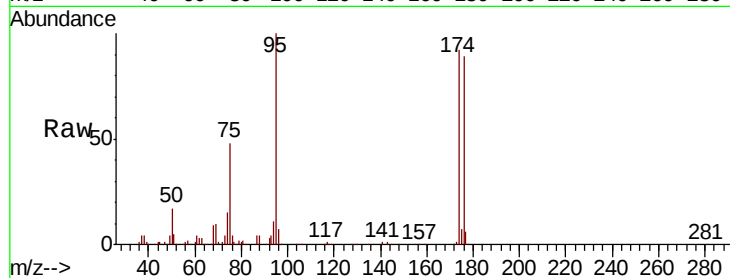
Tot Ion: 95 Resp: 214561

Ion Ratio Lower Upper

95 100

174 91.6 0.0 180.0

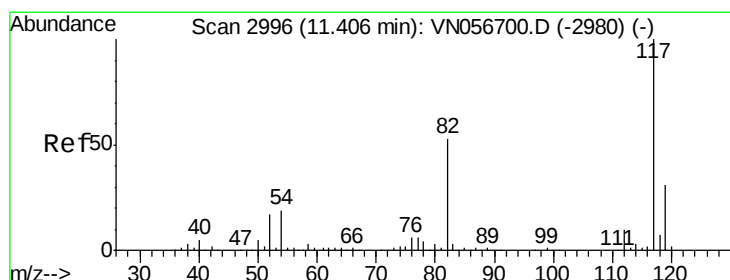
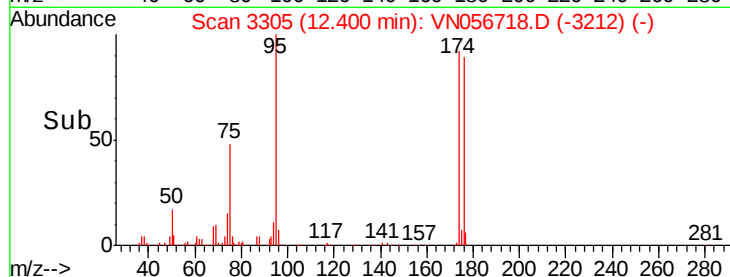
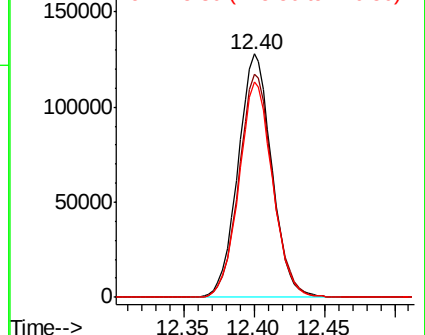
176 88.2 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

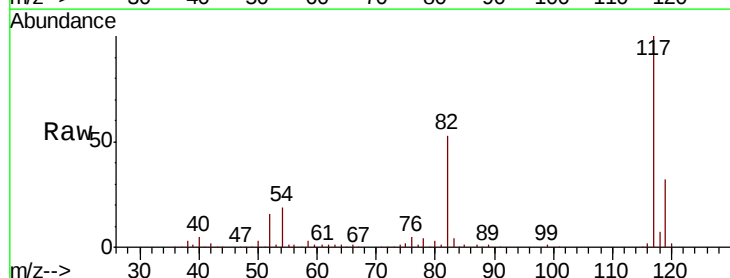
Tgt Ion: 117 Resp: 490925

Ion Ratio Lower Upper

117 100

82 52.7 42.2 63.2

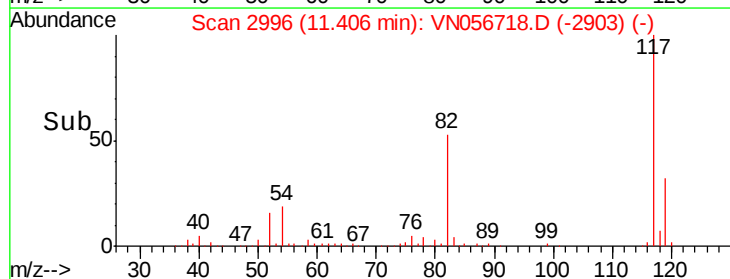
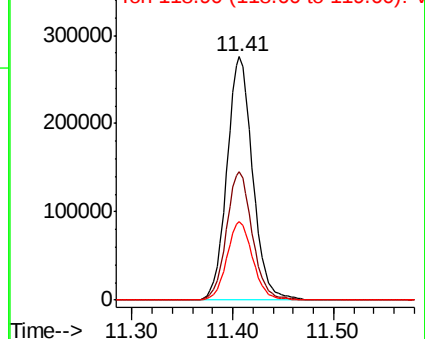
119 32.1 25.2 37.8

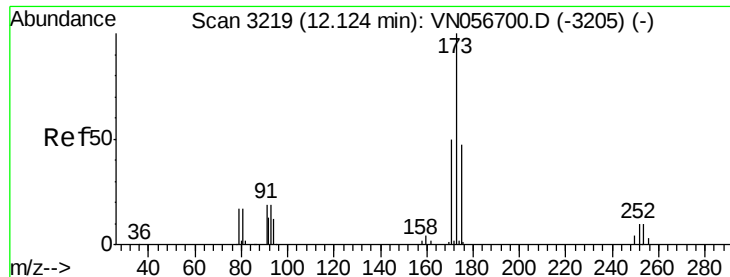


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.579 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20190709

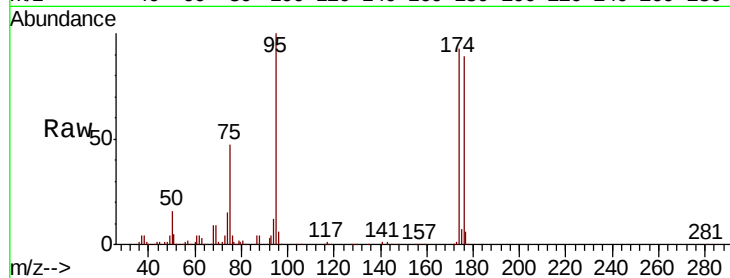
Tot Ion:173 Resp: 1627

Ion Ratio Lower Upper

173 100

175 742.4 23.8 71.4#

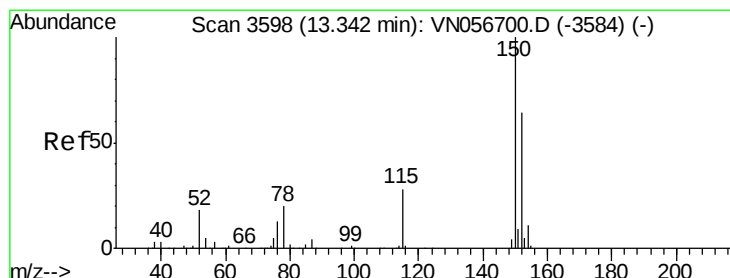
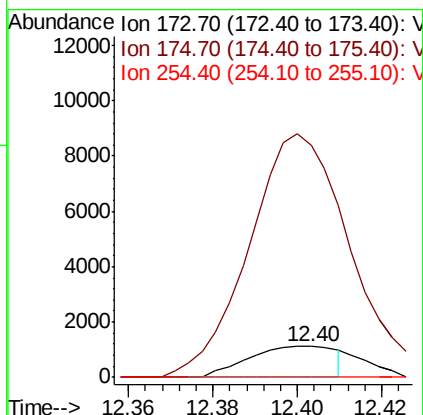
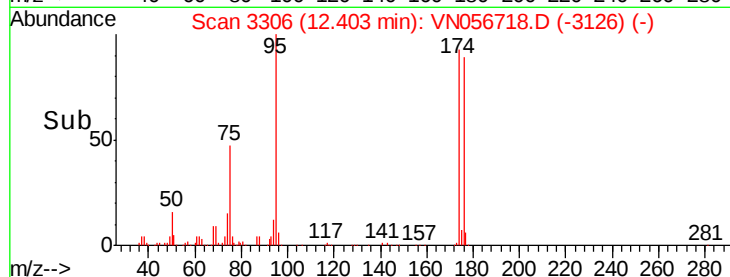
254 0.0 0.0 0.0



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# 3598

Delta R.T. -0.00 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

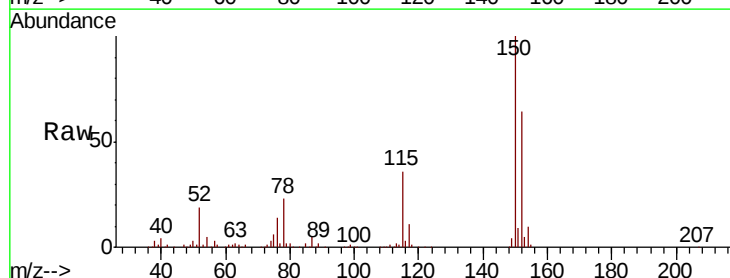
Tgt Ion:152 Resp: 191228

Ion Ratio Lower Upper

152 100

115 56.2 28.2 84.7

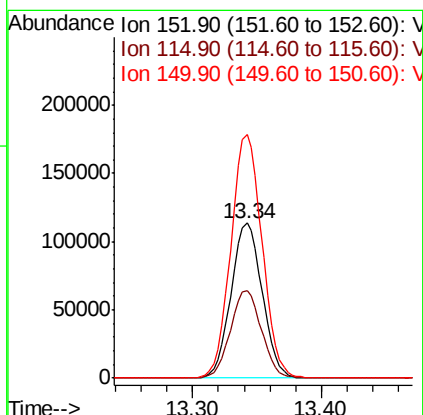
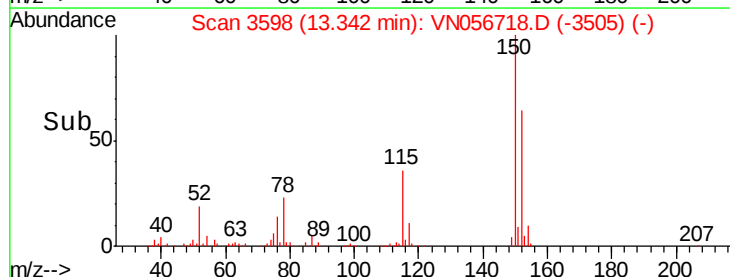
150 156.5 0.0 345.8

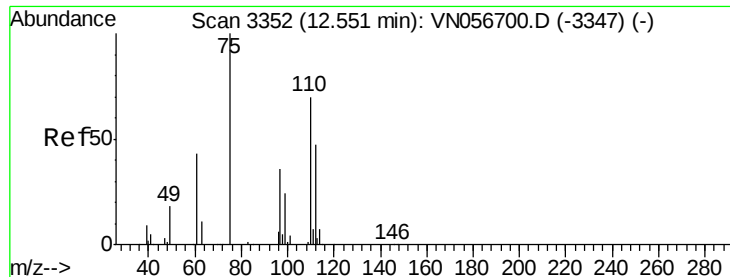


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.608 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

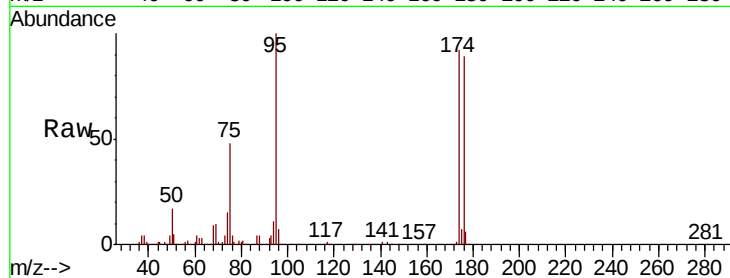
DUP01-20190709

Tot Ion: 75 Resp: 102923

Ion Ratio Lower Upper

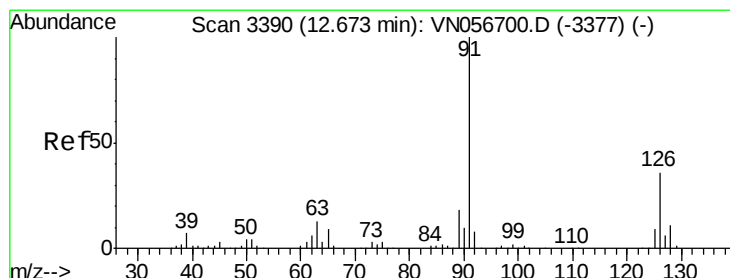
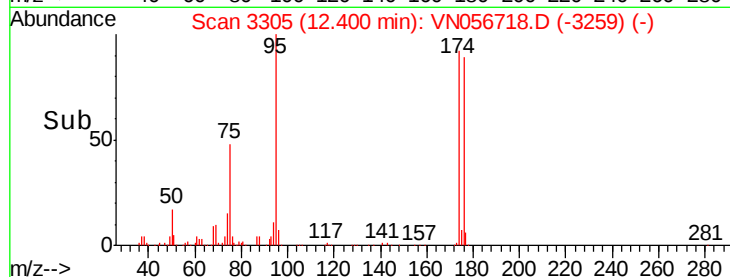
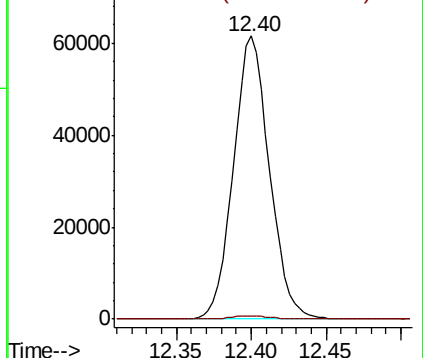
75 100

77 1.2 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: VN056718.D

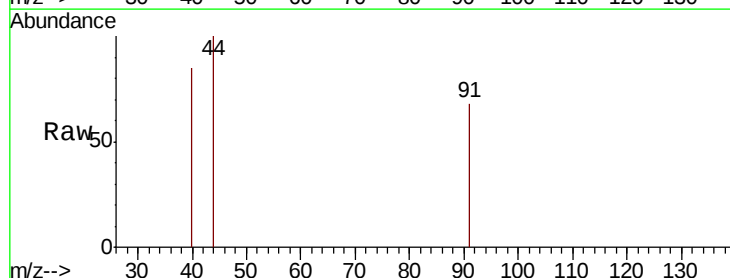
Acq: 15 Jul 2019 17:36

Tgt Ion: 91 Resp: 290

Ion Ratio Lower Upper

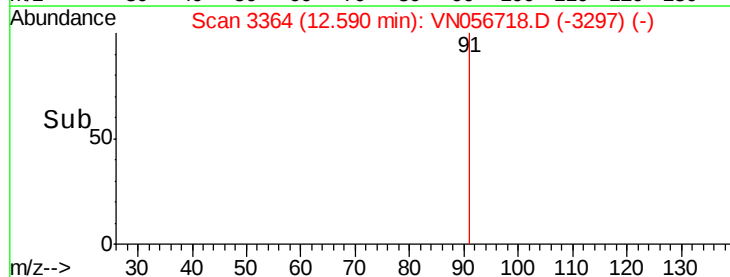
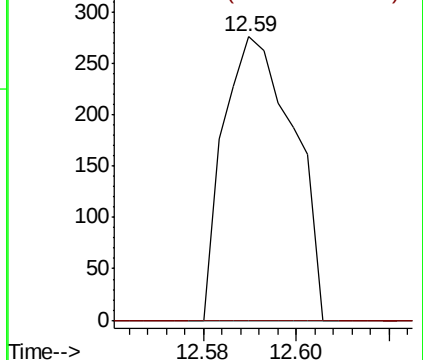
91 100

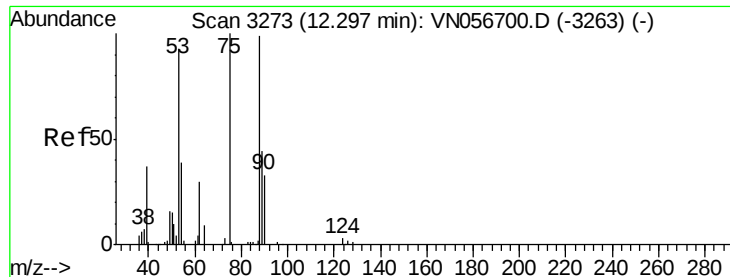
126 0.0 17.9 53.7#



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: 75.999 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20190709

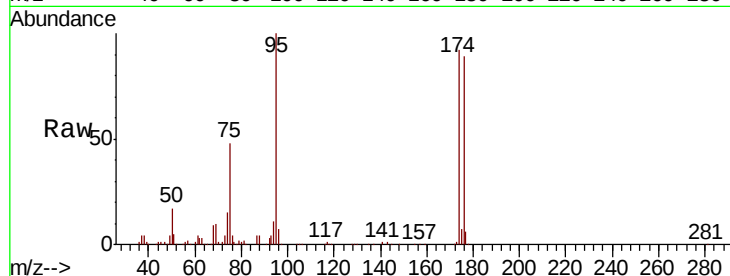
Tot Ion: 75 Resp: 102923

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#

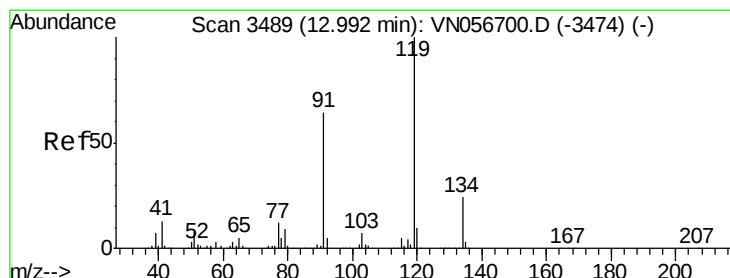
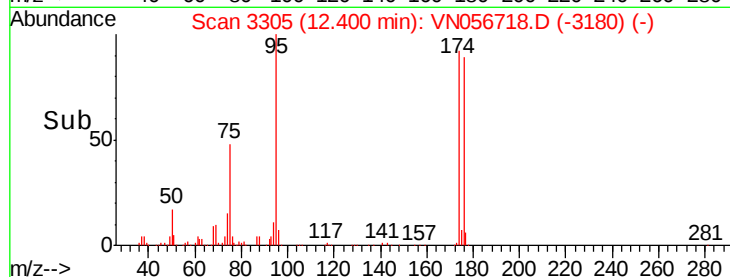
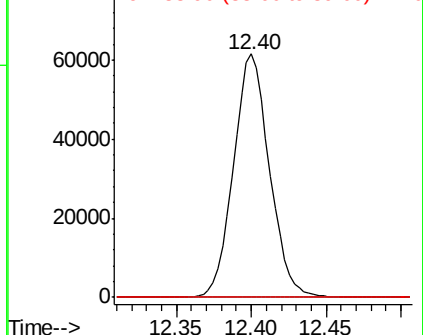


Abundance

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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

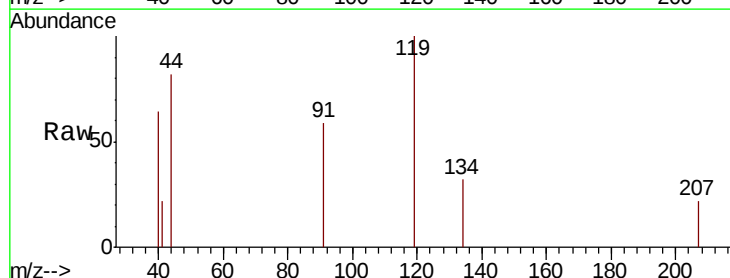
Tgt Ion: 119 Resp: 1138

Ion Ratio Lower Upper

119 100

91 62.7 31.8 95.4

134 13.9 13.0 38.9

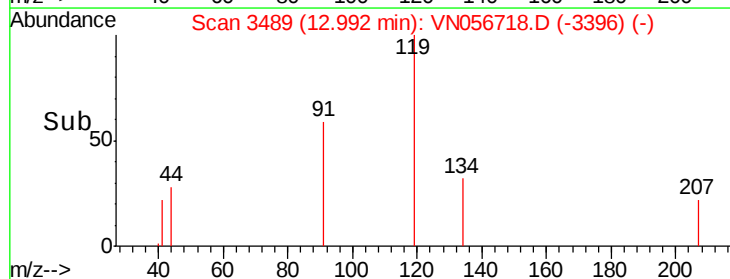
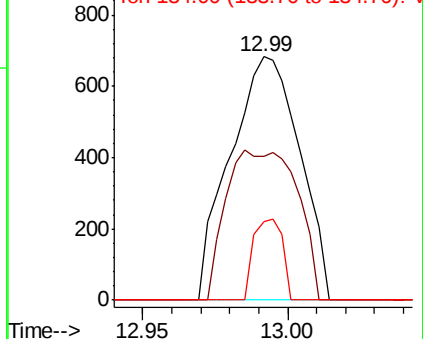


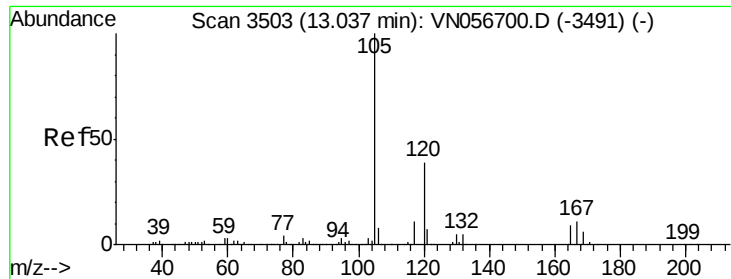
Abundance

Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V

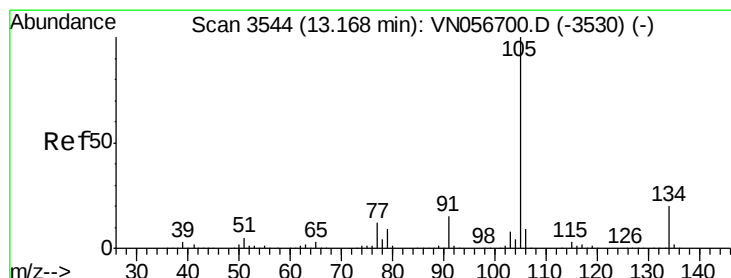
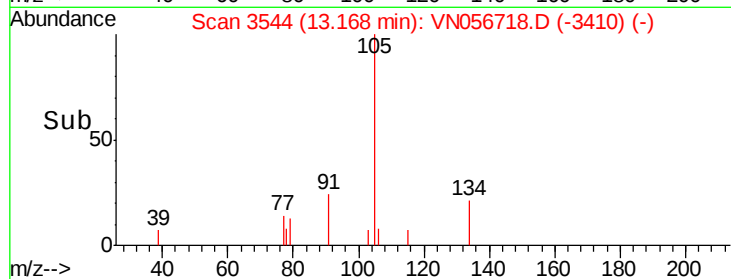
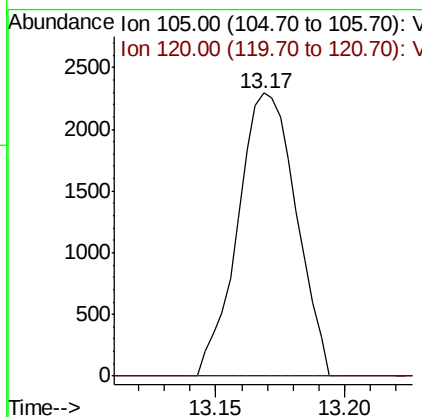
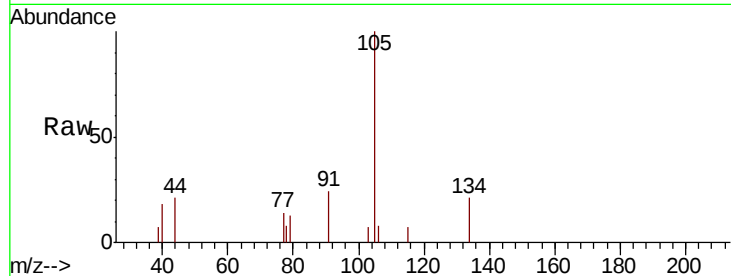




#84
 1,2,4-Trimethylbenzene
 Concen: 0.283 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. 0.13 min
 Lab File: VN056718.D
 Acq: 15 Jul 2019 17:36

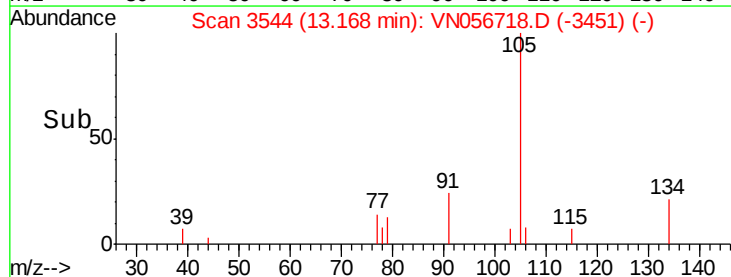
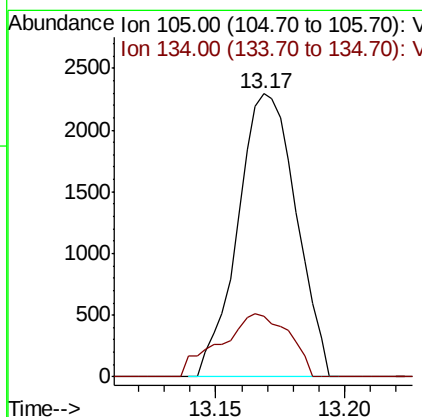
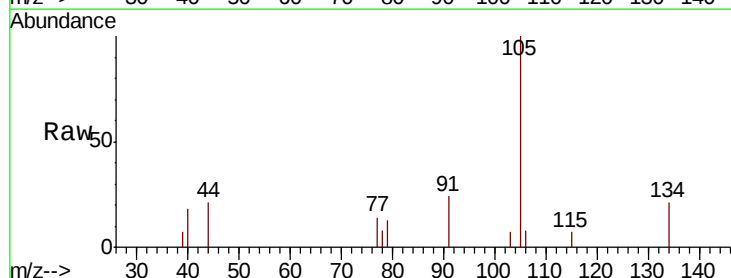
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20190709

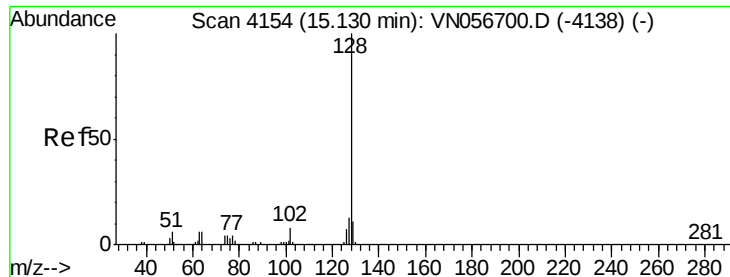
Tot Ion:105 Resp: 3616
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.9 68.8#



#85
 sec-Butylbenzene
 Concen: 0.249 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN056718.D
 Acq: 15 Jul 2019 17:36

Tgt Ion:105 Resp: 3616
 Ion Ratio Lower Upper
 105 100
 134 26.3 10.1 30.1





#95

Naphthalene

Concen: 4.547 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20190709

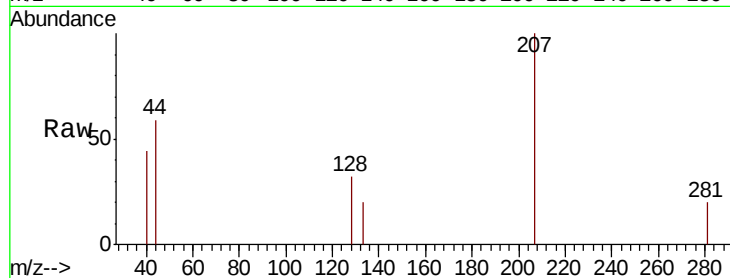
Tot Ion:128 Resp: 239

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

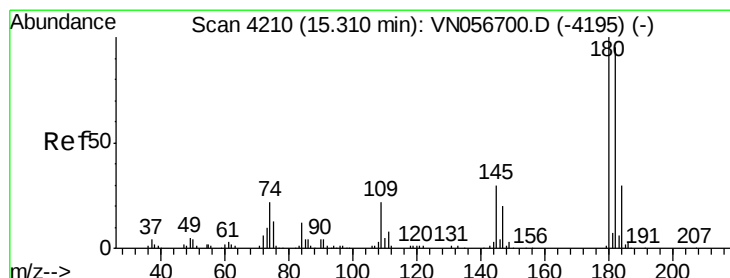
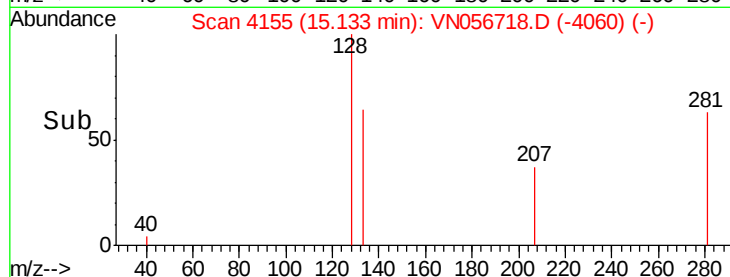
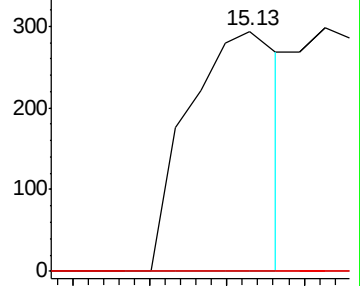
129 0.0 8.7 13.1#



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: 3.357 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN056718.D

Acq: 15 Jul 2019 17:36

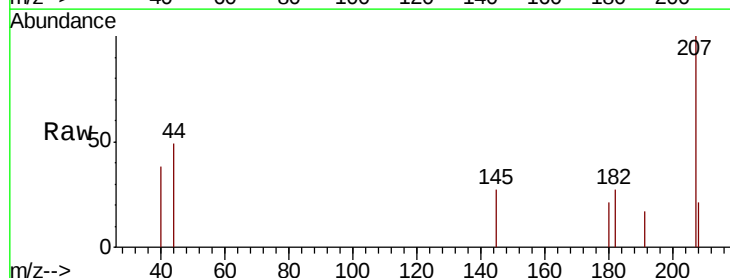
Tgt Ion:180 Resp: 135

Ion Ratio Lower Upper

180 100

182 128.9 47.1 141.3

145 445.2 15.0 45.1#



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

