

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071819\
 Data File : VN056813.D
 Acq On : 18 Jul 2019 15:40
 Operator : JC/SP
 Sample : K3892-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB071719

Quant Time: Jul 19 05:36:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	247018	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	440867	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	469341	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	156964	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	147083	53.83	ug/l	0.00
Spiked Amount			Recovery	=	107.66%	
35) Dibromofluoromethane	7.59	113	133672	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
50) Toluene-d8	10.09	98	561296	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
62) 4-Bromofluorobenzene	12.40	95	200647	56.15	ug/l	0.00
Spiked Amount			Recovery	=	112.30%	

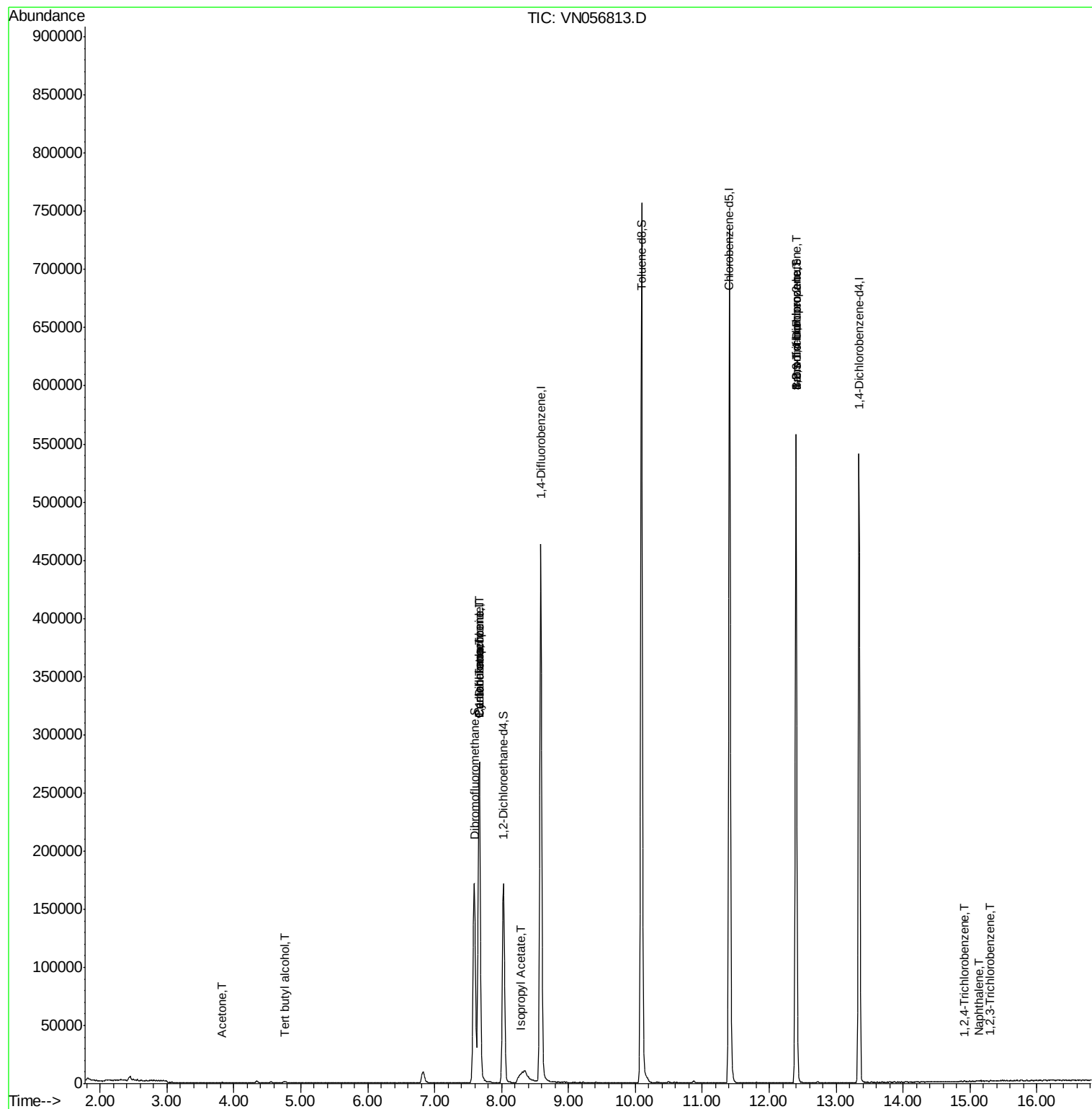
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	219	0.482	ug/l #	73
16) Acetone	3.82	43	382	0.303	ug/l #	41
31) Cyclohexane	7.66	56	3929	0.899	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	15975	3.916	ug/l #	48
38) Carbon Tetrachloride	7.67	117	21868	5.716	ug/l #	16
43) Isopropyl Acetate	8.27	43	5820	0.921	ug/l #	53
71) Bromoform	12.40	173	1345	0.500	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	92208	26.859	ug/l #	100
79) 2-Chlorotoluene	12.59	91	102	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	92208	82.949	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	307	3.784	ug/l #	84
95) Naphthalene	15.14	128	713	4.603	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	515	3.481	ug/l #	41

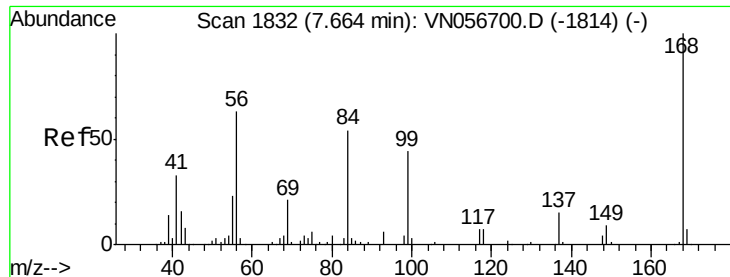
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN056813.D

Acq: 18 Jul 2019 15:40

Instrument :

MSVOA_N

ClientSampleId :

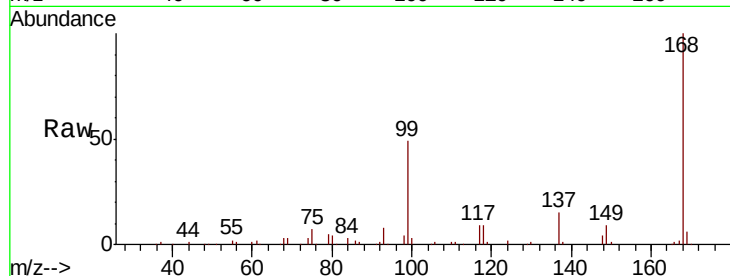
TB071719

Tot Ion:168 Resp: 247018

Ion Ratio Lower Upper

168 100

99 49.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

100000

80000

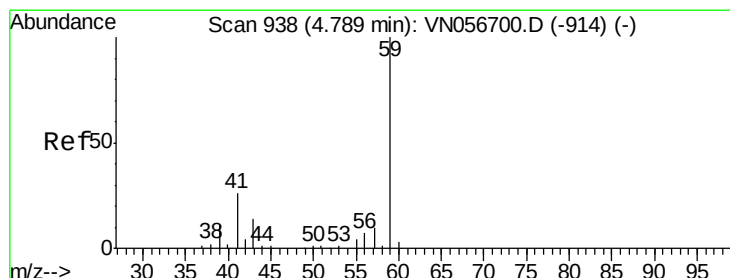
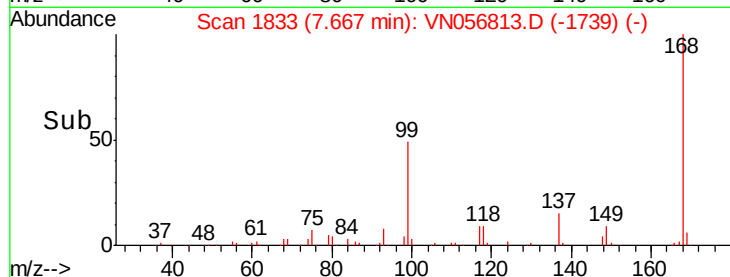
60000

40000

20000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#11

Tert butyl alcohol

Concen: 0.482 ug/l

RT: 4.76 min Scan# 930

Delta R.T. -0.03 min

Lab File: VN056813.D

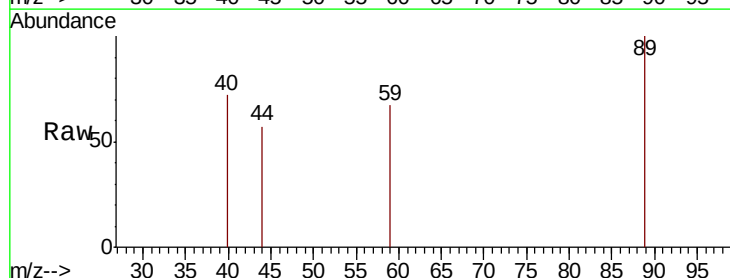
Acq: 18 Jul 2019 15:40

Tgt Ion: 59 Resp: 219

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.76

400

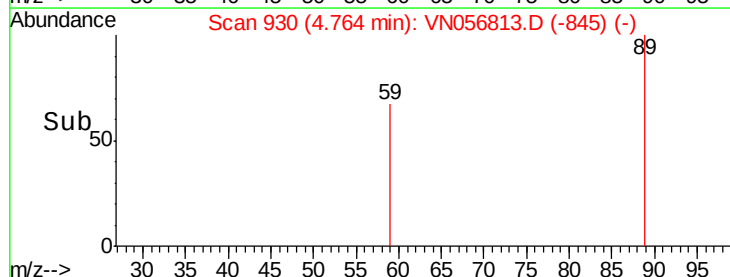
300

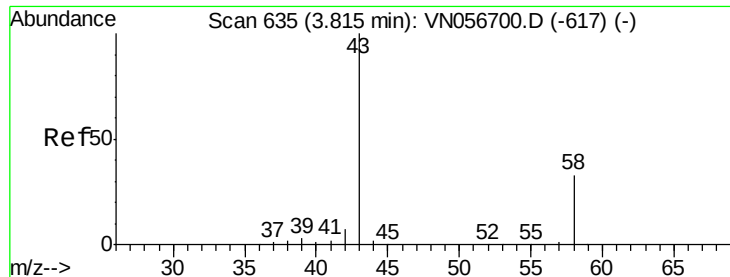
200

100

0

Time--> 4.75 4.76 4.77 4.78





#16

Acetone

Concen: 0.303 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN056813.D

Acq: 18 Jul 2019 15:40

Instrument :

MSVOA_N

ClientSampleId :

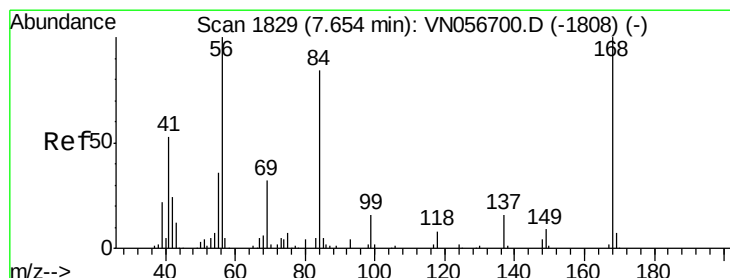
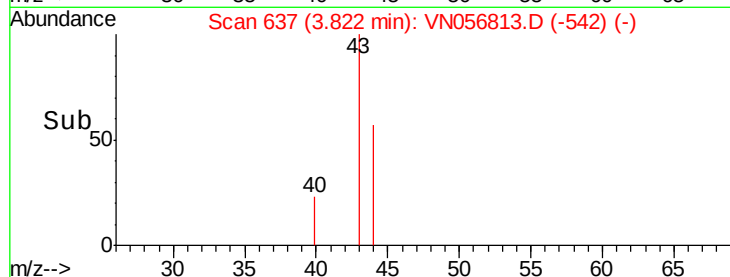
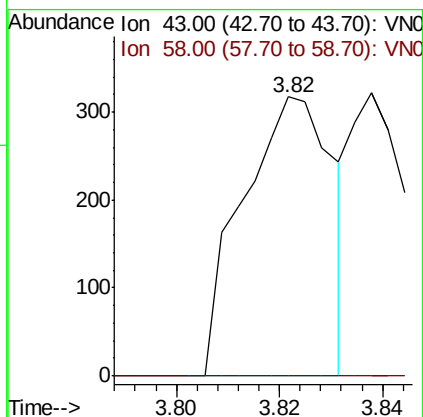
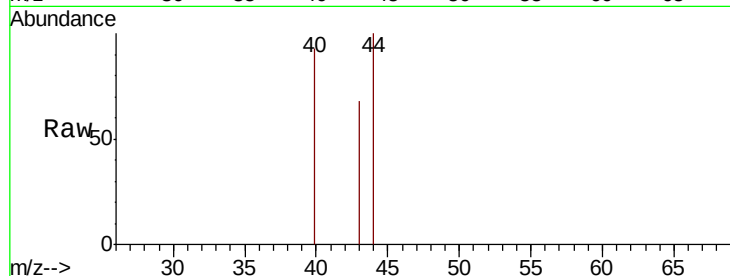
TB071719

Tot Ion: 43 Resp: 382

Ion Ratio Lower Upper

43 100

58 0.0 26.7 40.1#



#31

Cyclohexane

Concen: 0.899 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN056813.D

Acq: 18 Jul 2019 15:40

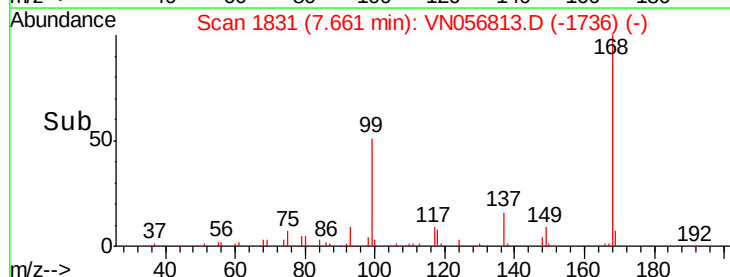
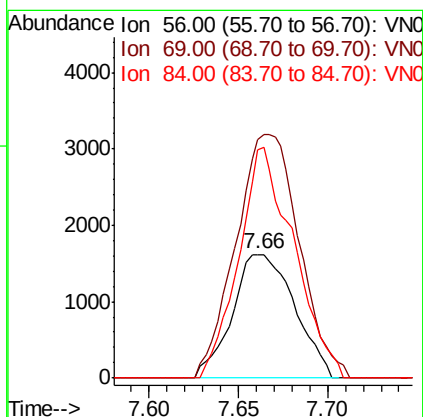
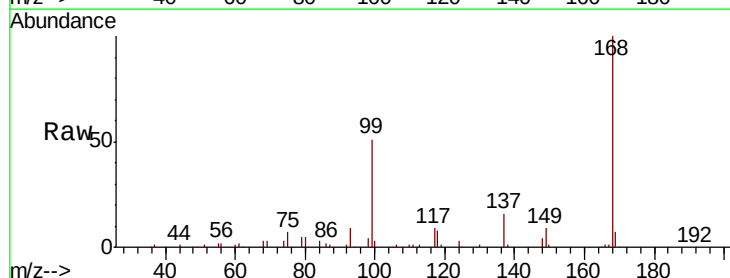
Tgt Ion: 56 Resp: 3929

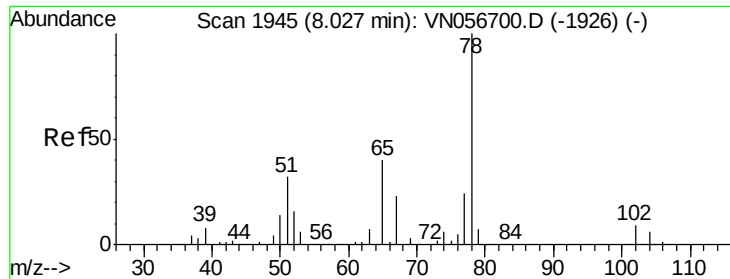
Ion Ratio Lower Upper

56 100

69 192.2 25.8 38.8#

84 184.2 67.4 101.0#

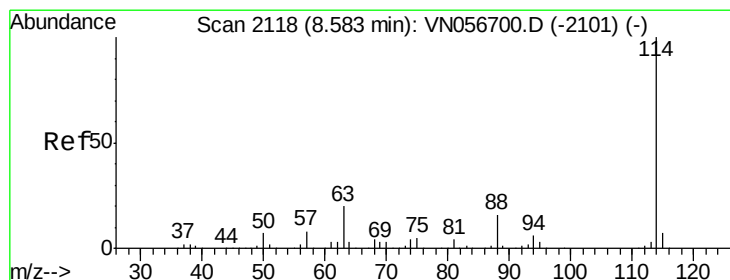
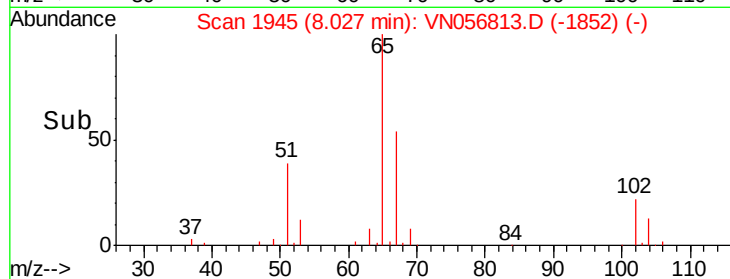
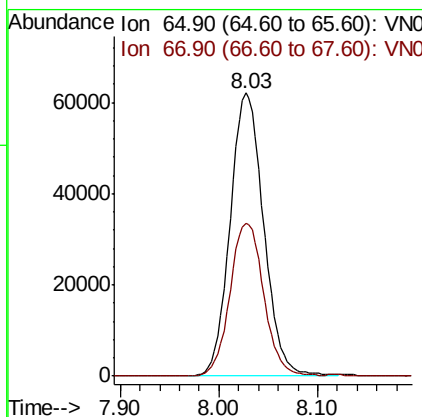
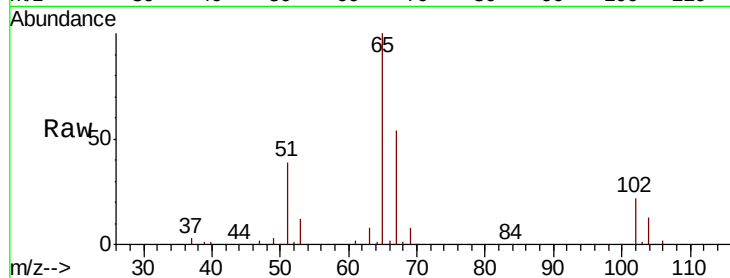




#33
 1,2-Dichloroethane-d4
 Concen: 53.830 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056813.D
 Acq: 18 Jul 2019 15:40

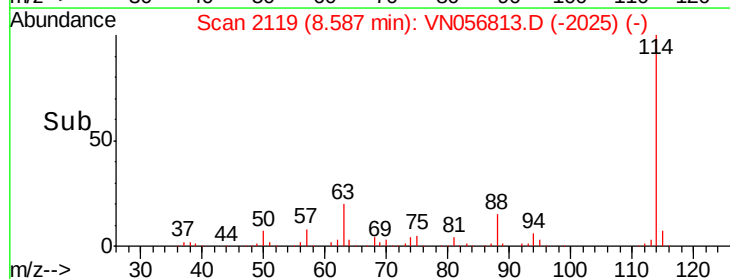
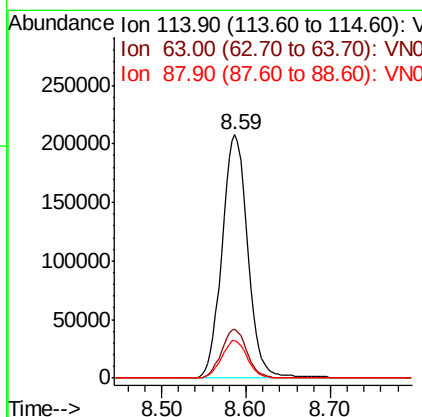
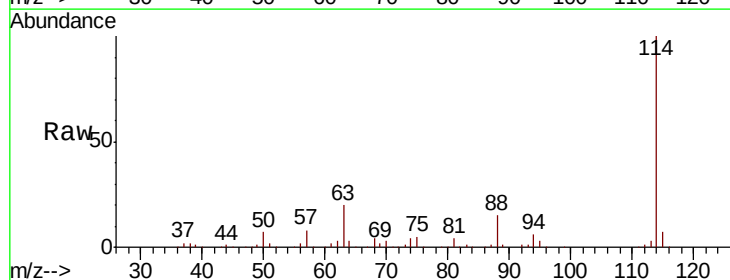
Instrument :
 MSVOA_N
 ClientSampleId :
 TB071719

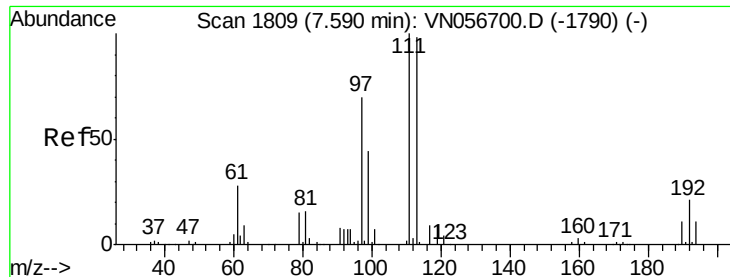
Tot Ion: 65 Resp: 147083
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056813.D
 Acq: 18 Jul 2019 15:40

Tgt Ion: 114 Resp: 440867
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.4
 88 15.4 0.0 31.2

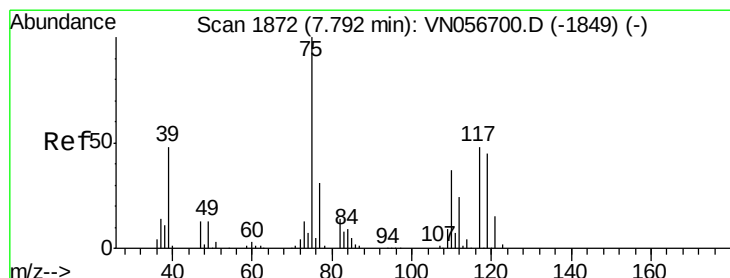
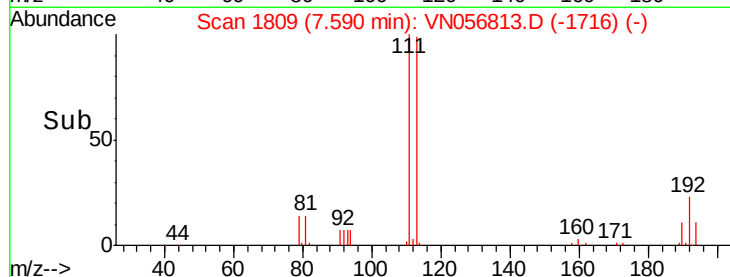
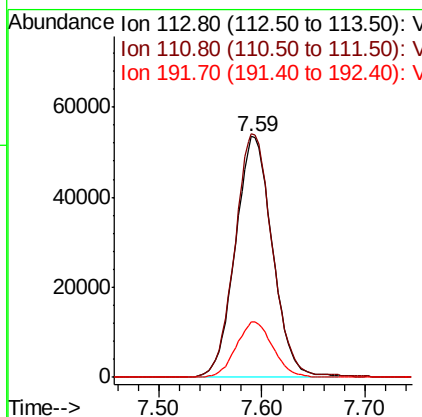
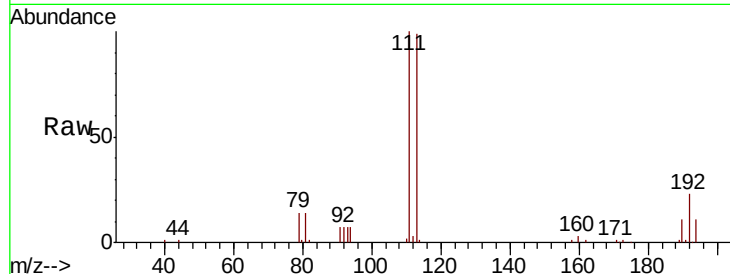




#35
 Dibromofluoromethane
 Concen: 48.721 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056813.D
 Acq: 18 Jul 2019 15:40

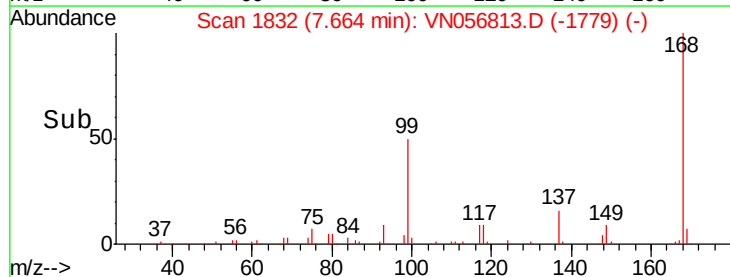
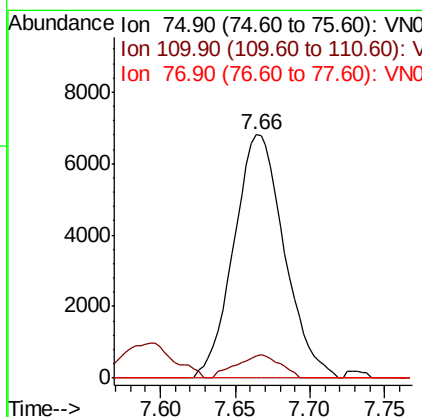
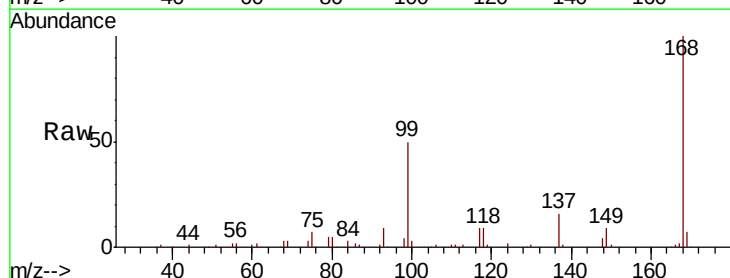
Instrument :
 MSVOA_N
 ClientSampleId :
 TB071719

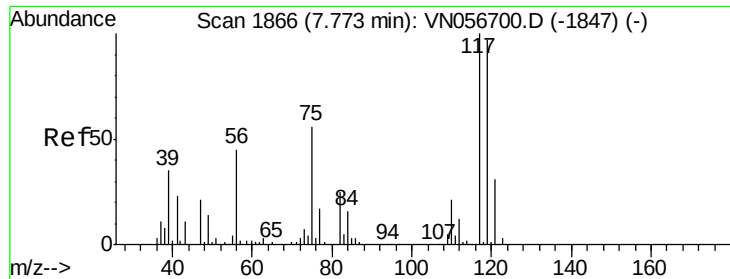
Tot Ion:113 Resp: 133672
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.8 122.6
 192 22.7 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 3.916 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056813.D
 Acq: 18 Jul 2019 15:40

Tgt Ion: 75 Resp: 15975
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.4 55.4#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.716 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056813.D

Acq: 18 Jul 2019 15:40

Instrument :

MSVOA_N

ClientSampleId :

TB071719

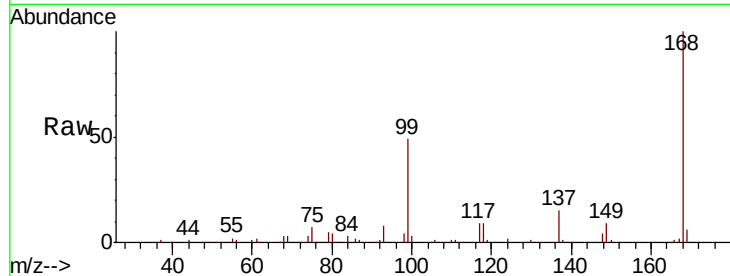
Tot Ion:117 Resp: 21868

Ion Ratio Lower Upper

117 100

119 6.3 77.5 116.3#

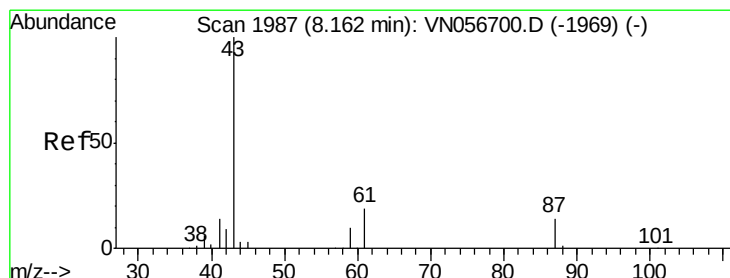
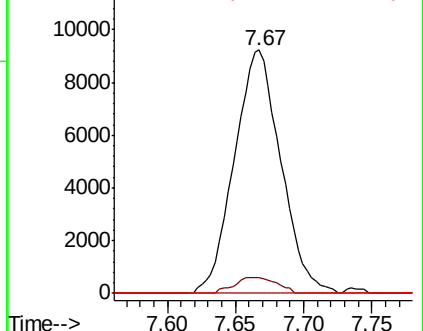
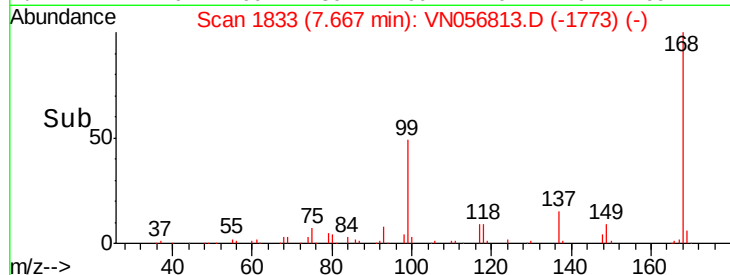
121 0.0 24.7 37.1#



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: 0.921 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN056813.D

Acq: 18 Jul 2019 15:40

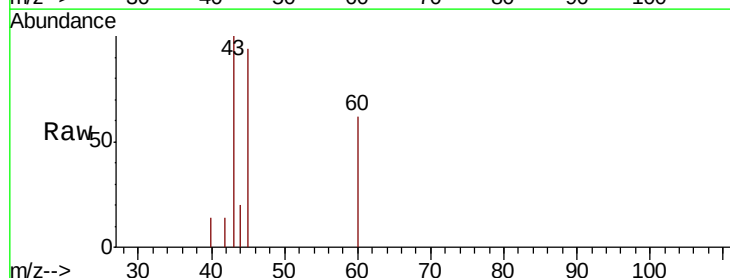
Tgt Ion: 43 Resp: 5820

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

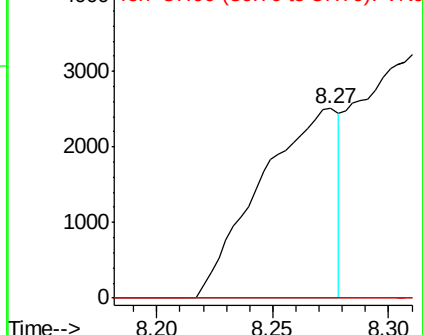
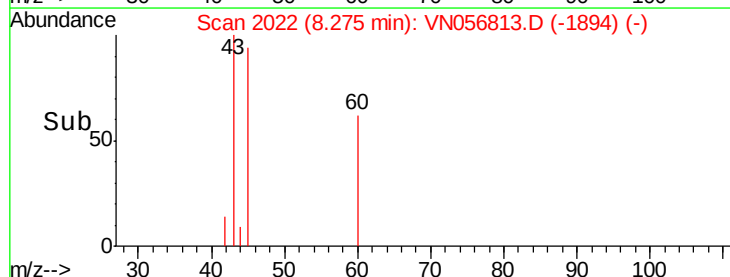
87 0.0 11.1 16.7#

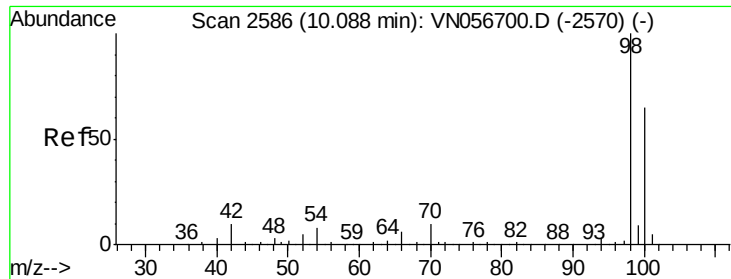


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 52.970 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056813.D

Acq: 18 Jul 2019 15:40

Instrument :

MSVOA_N

ClientSampleId :

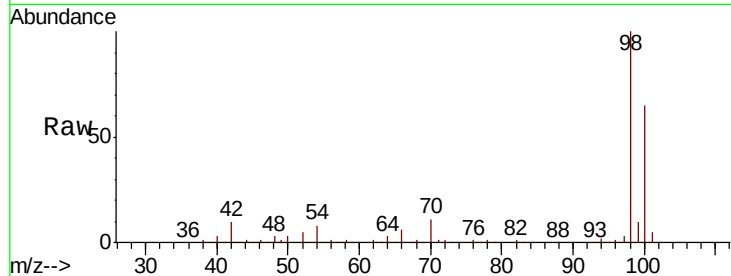
TB071719

Tot Ion: 98 Resp: 561296

Ion Ratio Lower Upper

98 100

100 64.4 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056700.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056700.D (-2570) (-)

10.09

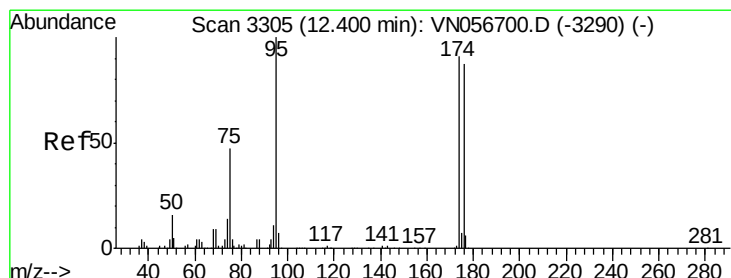
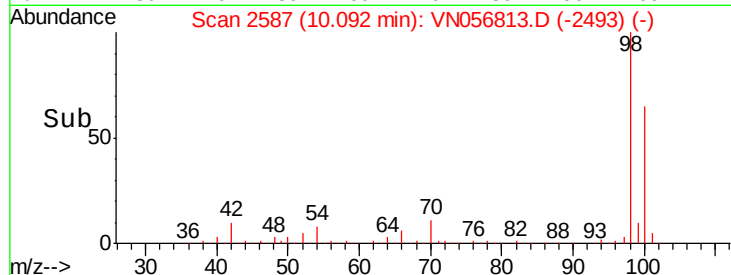
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 56.149 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056813.D

Acq: 18 Jul 2019 15:40

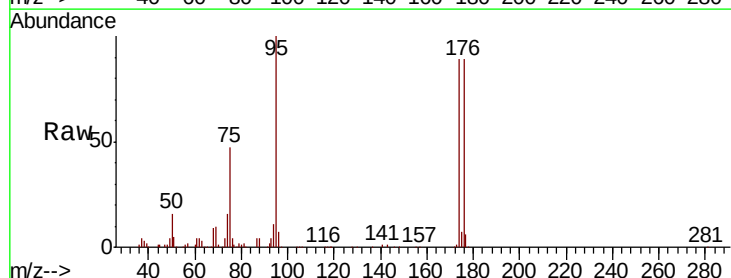
Tgt Ion: 95 Resp: 200647

Ion Ratio Lower Upper

95 100

174 89.2 0.0 180.0

176 88.4 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN056700.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN056700.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN056700.D (-3290) (-)

12.40

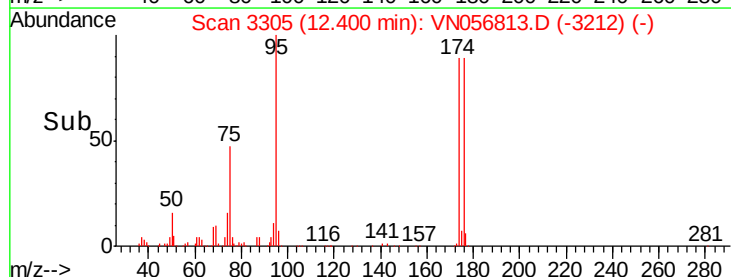
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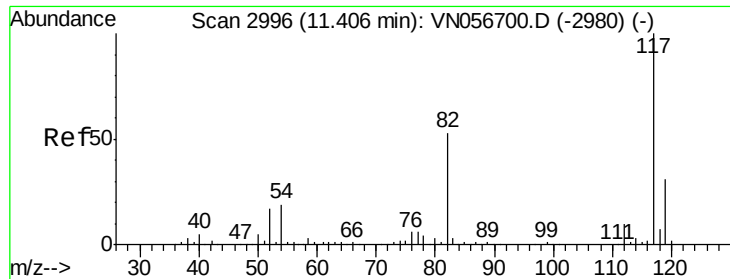
100000

50000

0

Time-->

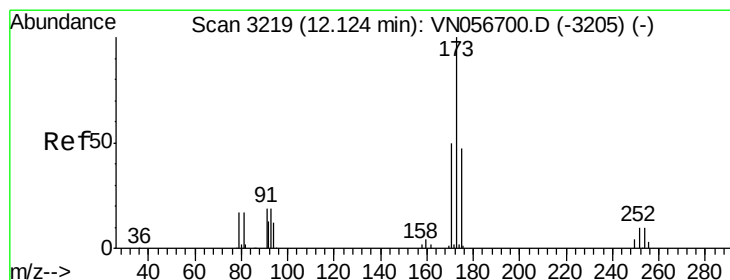
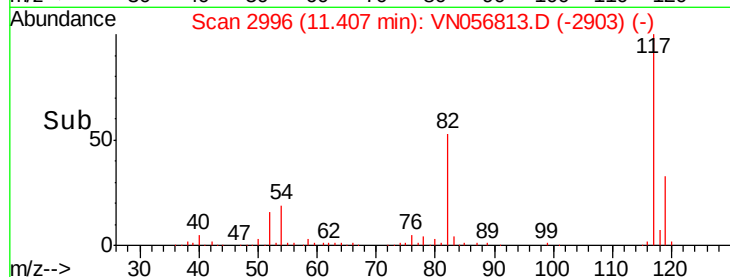
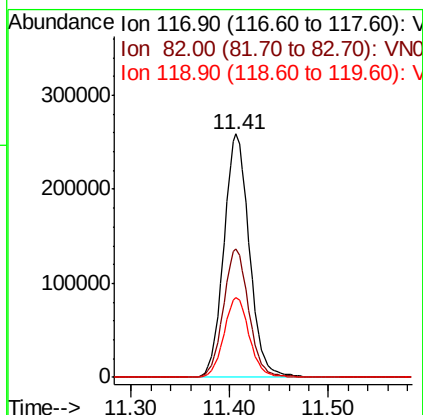
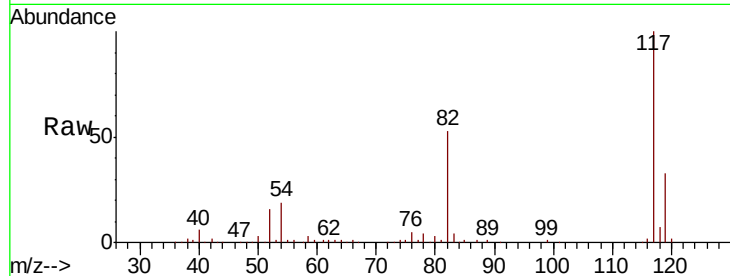




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056813.D
Acq: 18 Jul 2019 15:40

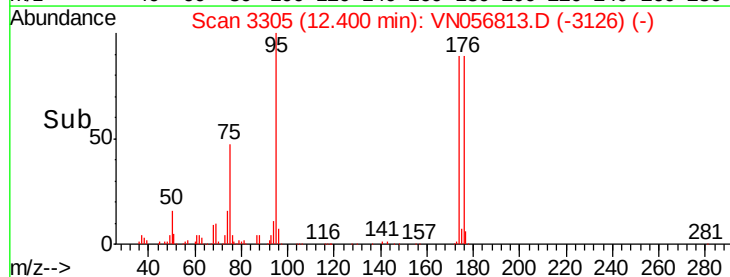
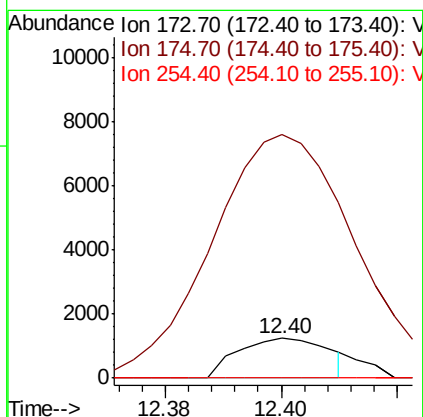
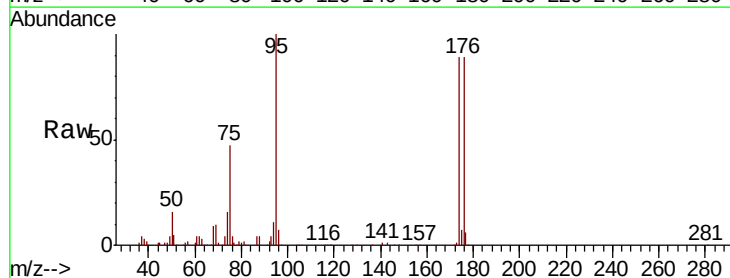
Instrument :
MSVOA_N
ClientSampleId :
TB071719

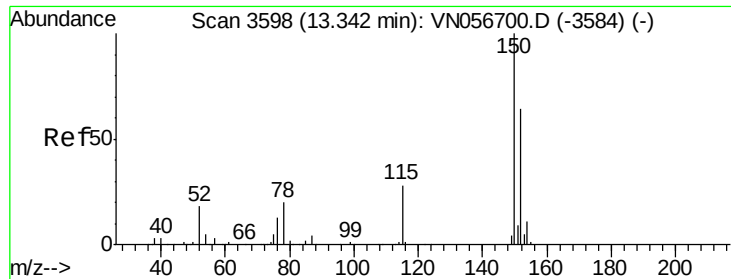
Tot Ion:117 Resp: 469341
Ion Ratio Lower Upper
117 100
82 52.6 42.2 63.2
119 32.8 25.2 37.8



#71
Bromoform
Concen: 0.500 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN056813.D
Acq: 18 Jul 2019 15:40

Tgt Ion:173 Resp: 1345
Ion Ratio Lower Upper
173 100
175 807.8 23.8 71.4#
254 0.0 0.0 0.0



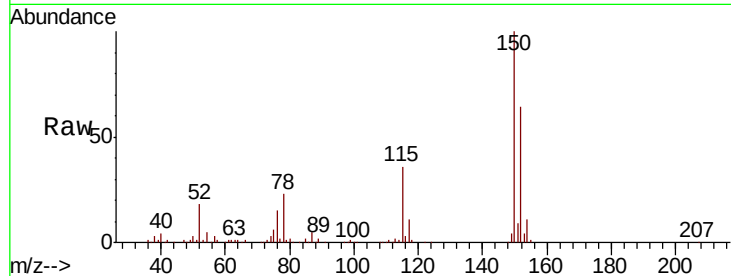


#72

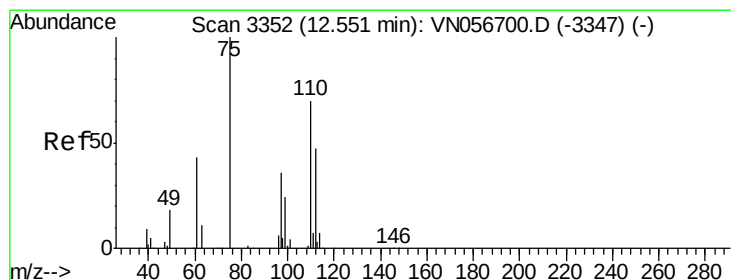
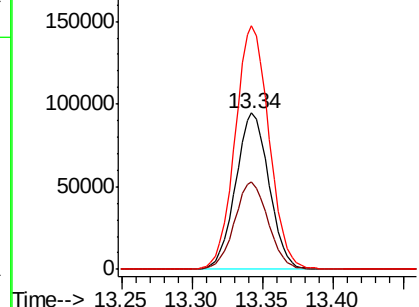
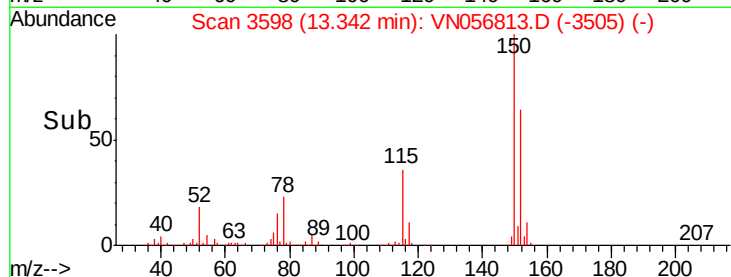
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056813.D
Acq: 18 Jul 2019 15:40

Instrument :
MSVOA_N
ClientSampleId :
TB071719

Tot Ion:152 Resp: 156964
Ion Ratio Lower Upper
152 100
115 56.2 28.2 84.7
150 157.8 0.0 345.8



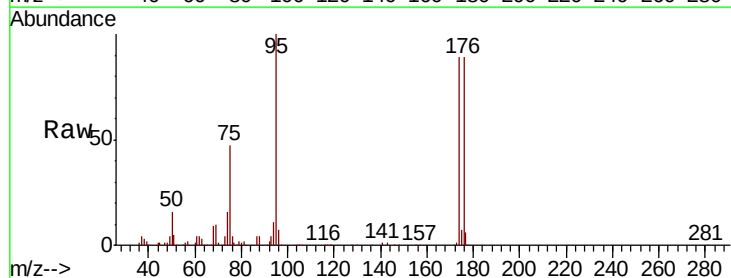
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



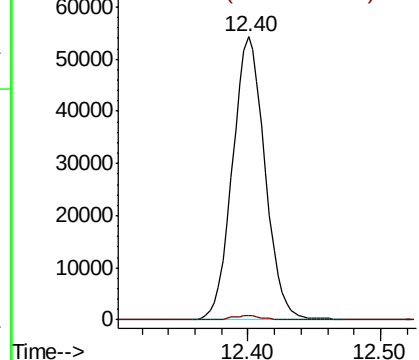
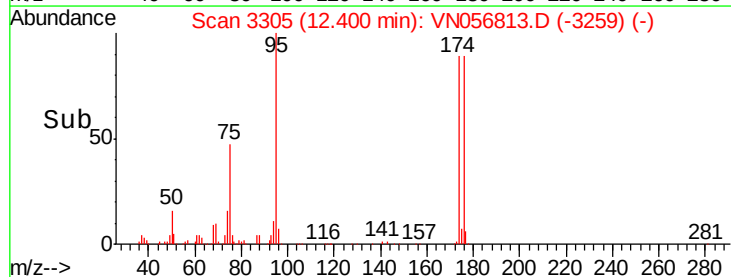
#76

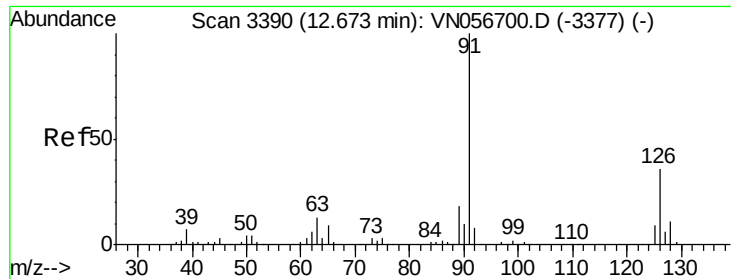
1,2,3-Trichloropropane
Concen: 26.859 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN056813.D
Acq: 18 Jul 2019 15:40

Tgt Ion: 75 Resp: 92208
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



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

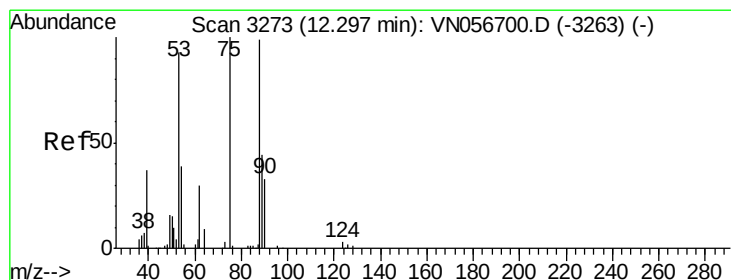
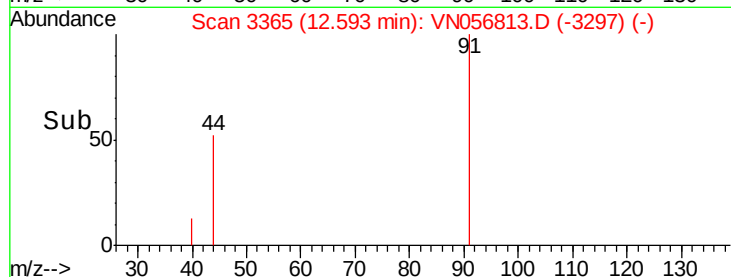
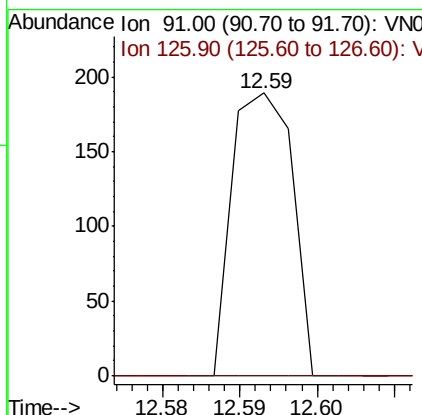
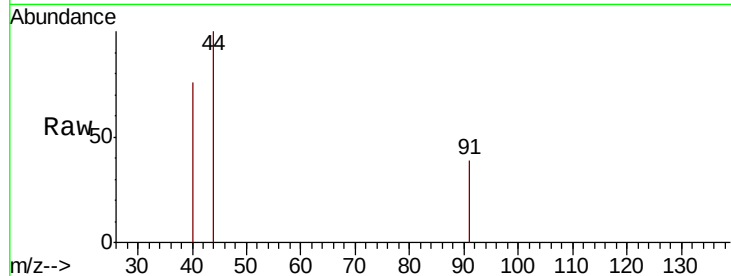




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.59 min Scan# 3365
 Delta R.T. -0.08 min
 Lab File: VN056813.D
 Acq: 18 Jul 2019 15:40

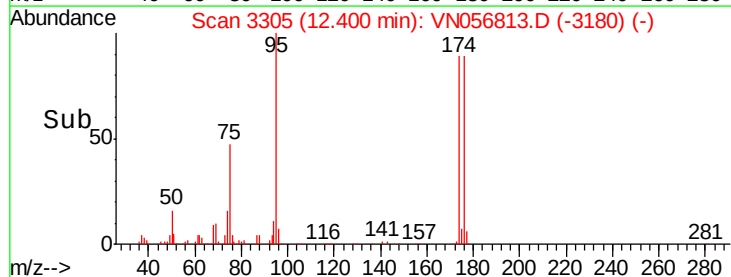
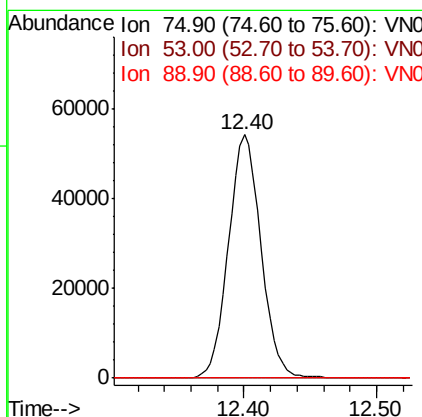
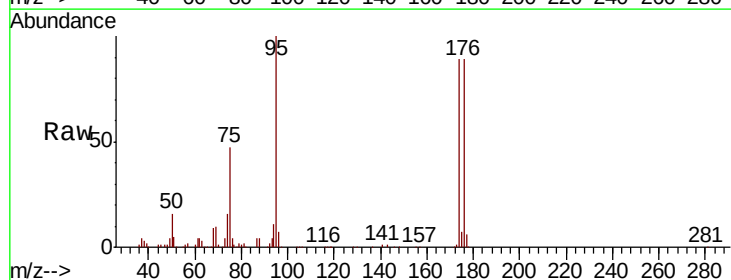
Instrument :
 MSVOA_N
 ClientSampleId :
 TB071719

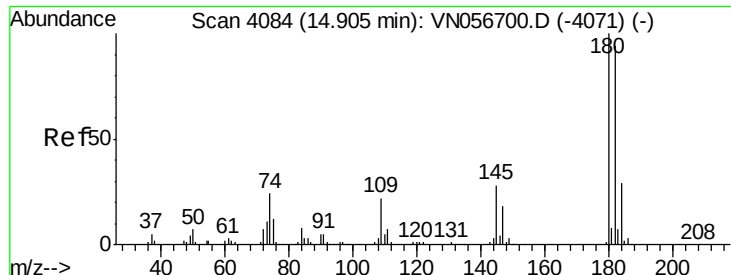
Tot Ion: 91 Resp: 102
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.9 53.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.949 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN056813.D
 Acq: 18 Jul 2019 15:40

Tgt Ion: 75 Resp: 92208
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.7 110.5#
 89 0.0 36.2 54.2#





#93

1,2,4-Trichlorobenzene

Concen: 3.784 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN056813.D

Acq: 18 Jul 2019 15:40

Instrument :

MSVOA_N

ClientSampleId :

TB071719

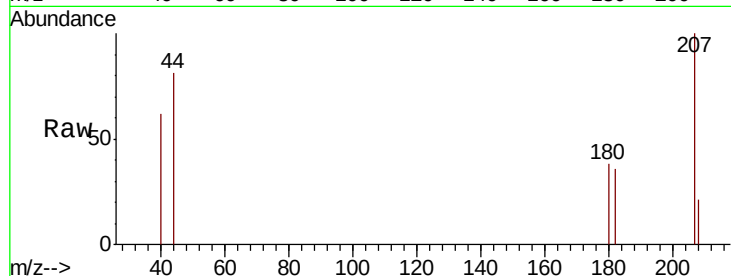
Tot Ion:180 Resp: 307

Ion Ratio Lower Upper

180 100

182 99.3 47.2 141.6

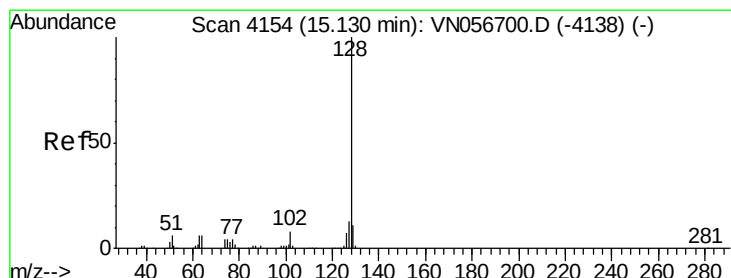
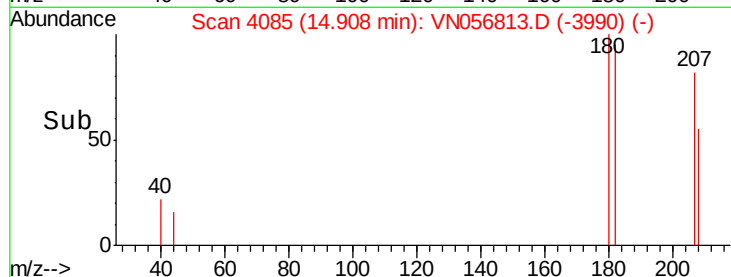
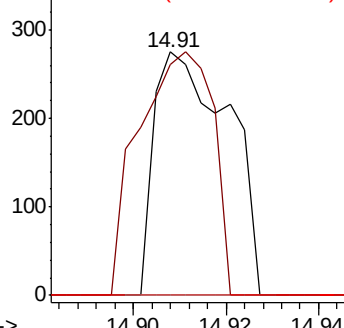
145 0.0 14.2 42.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 4.603 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN056813.D

Acq: 18 Jul 2019 15:40

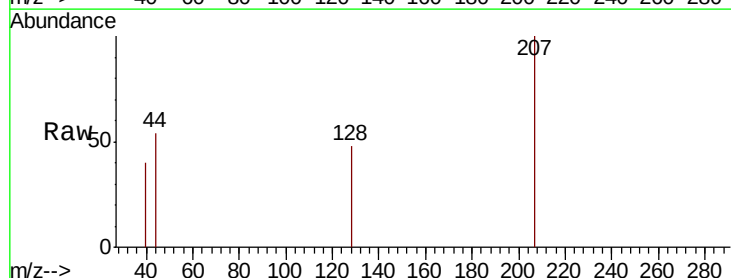
Tgt Ion:128 Resp: 713

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

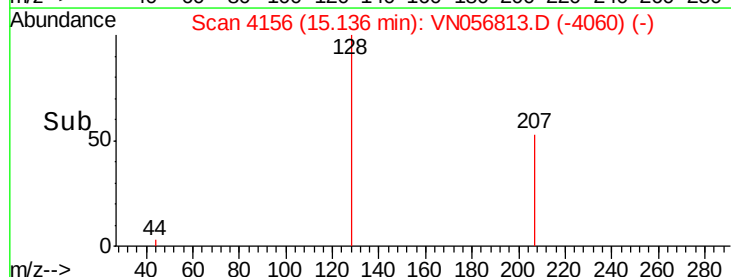
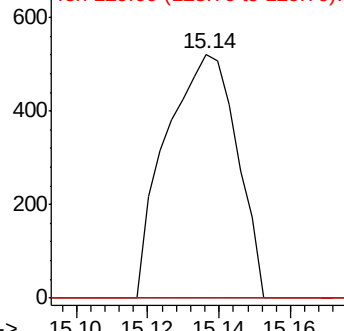
129 0.0 8.7 13.1#

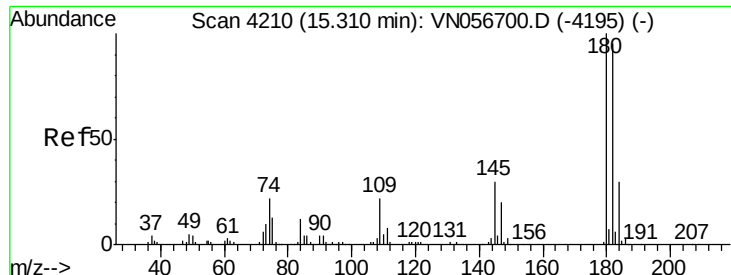


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

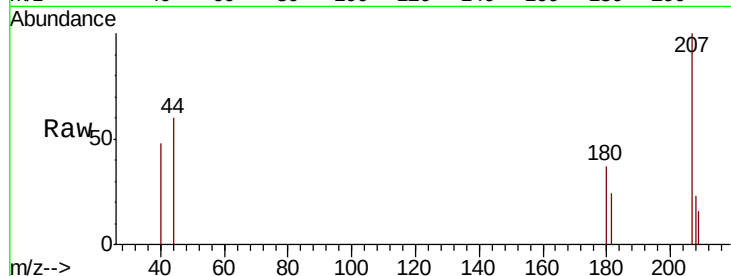




#96
 1,2,3-Trichlorobenzene
 Concen: 3.481 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN056813.D
 Acq: 18 Jul 2019 15:40

Instrument :
 MSVOA_N
 ClientSampleId :
 TB071719

Tot Ion:180 Resp: 515
 Ion Ratio Lower Upper
 180 100
 182 36.7 47.1 141.3#
 145 0.0 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

