

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056717.D
 Acq On : 15 Jul 2019 17:12
 Operator : JC/SP
 Sample : K3817-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-TW533-3439

Quant Time: Jul 16 04:24:10 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	281263	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	494983	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	514998	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	200741	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	160566	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
35) Dibromofluoromethane	7.59	113	147580	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
50) Toluene-d8	10.09	98	620698	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
62) 4-Bromofluorobenzene	12.40	95	228164	56.87	ug/l	0.00
Spiked Amount			Recovery	=	113.74%	

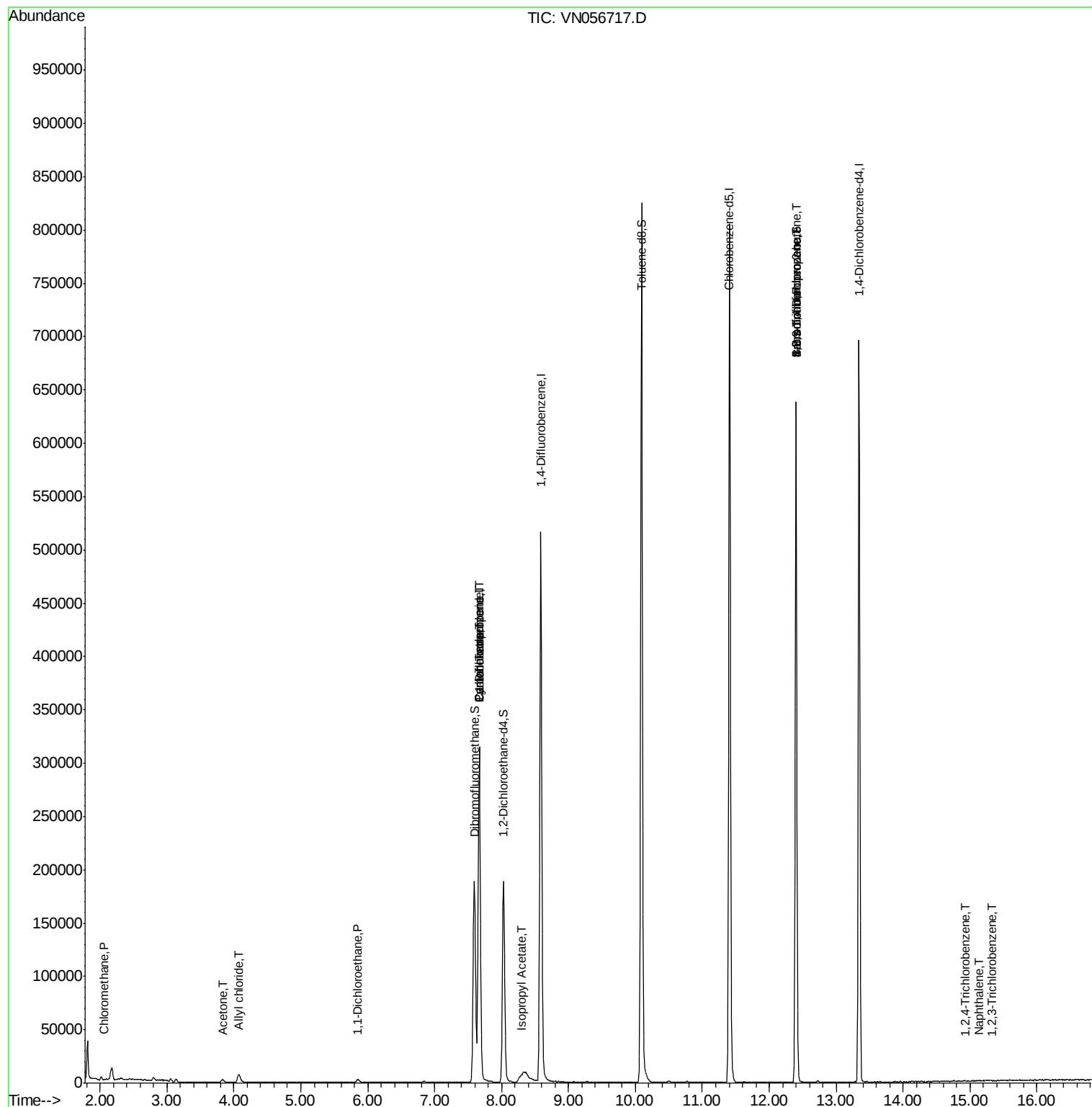
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	868	0.244	ug/l #	83
14) Allyl chloride	4.07	41	1219	0.267	ug/l #	81
16) Acetone	3.83	43	4558	3.179	ug/l	93
18) Methyl Acetate	4.34	43	256	Below Cal	#	52
24) 1,1-Dichloroethane	5.85	63	5241	1.002	ug/l #	83
31) Cyclohexane	7.66	56	4416	0.888	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	18235	3.981	ug/l #	48
38) Carbon Tetrachloride	7.67	117	24600	5.727	ug/l #	15
43) Isopropyl Acetate	8.29	43	7073	0.997	ug/l #	53
71) Bromoform	12.40	173	1612	0.546	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	104009	23.690	ug/l #	100
79) 2-Chlorotoluene	12.59	91	173	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	104009	73.161	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	136	3.724	ug/l #	52
95) Naphthalene	15.13	128	630	4.579	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	29	3.330	ug/l #	1

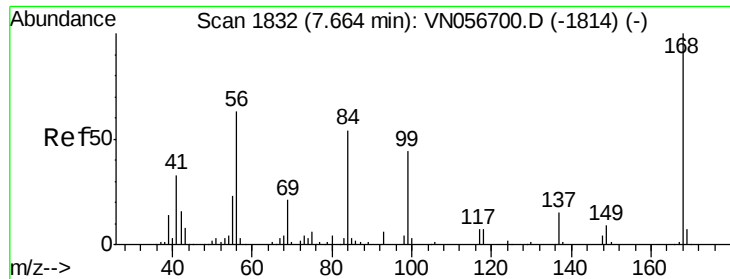
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

Instrument :

MSVOA_N

ClientSampleId :

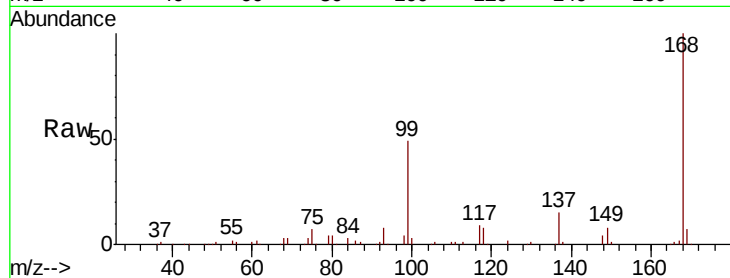
SA-TW533-3439

Tot Ion:168 Resp: 281263

Ion Ratio Lower Upper

168 100

99 49.3 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): VN056717.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056717.D (-1739) (-)

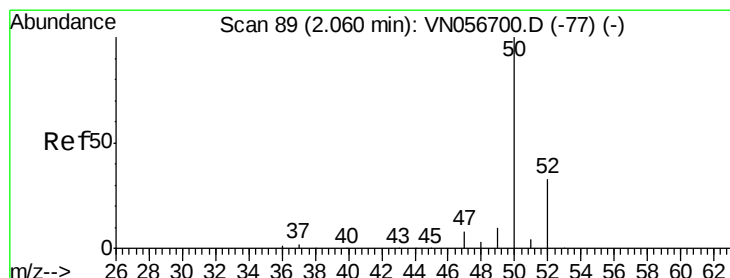
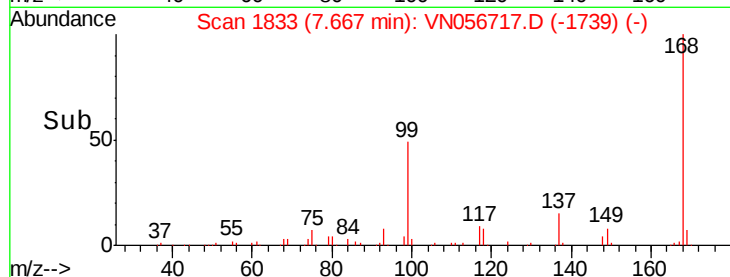
7.67

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#3

Chloromethane

Concen: 0.244 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056717.D

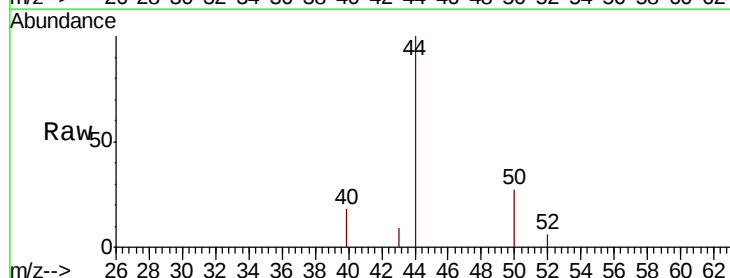
Acq: 15 Jul 2019 17:12

Tgt Ion: 50 Resp: 868

Ion Ratio Lower Upper

50 100

52 23.5 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VN056717.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN056717.D (-1) (-)

2.06

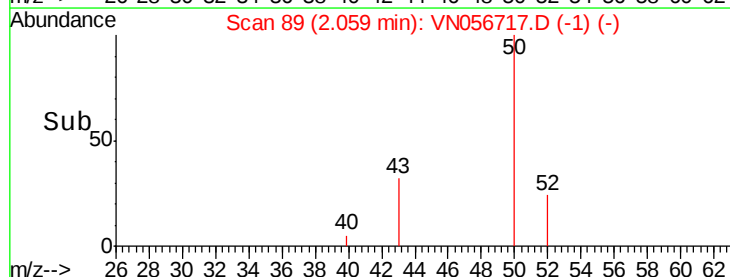
600

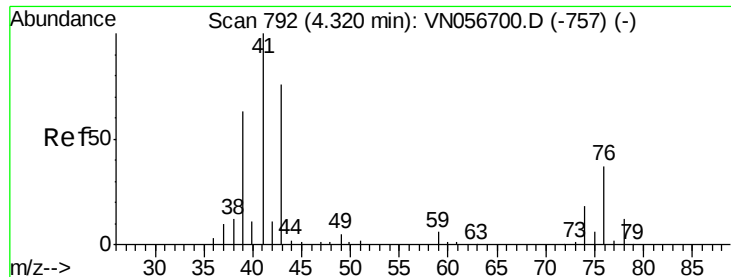
400

200

0

Time--> 2.02 2.04 2.06 2.08 2.10





#14

Allvl chloride

Concen: 0.267 ug/l

RT: 4.07 min Scan# 715

Delta R.T. -0.25 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

Instrument :

MSVOA_N

ClientSampleId :

SA-TW533-3439

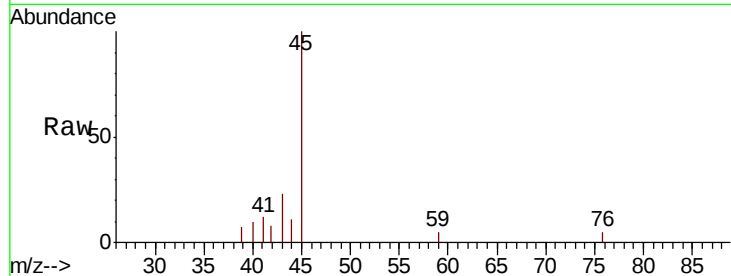
Tot Ion: 41 Resp: 1219

Ion Ratio Lower Upper

41 100

39 69.2 46.9 70.3

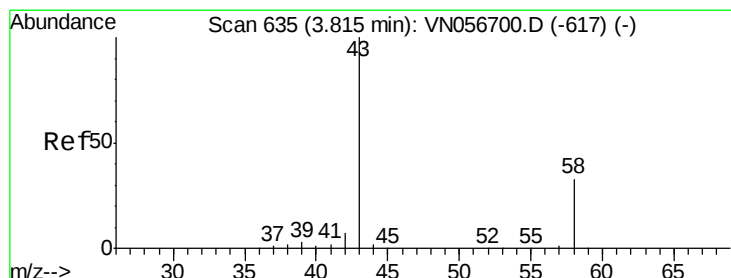
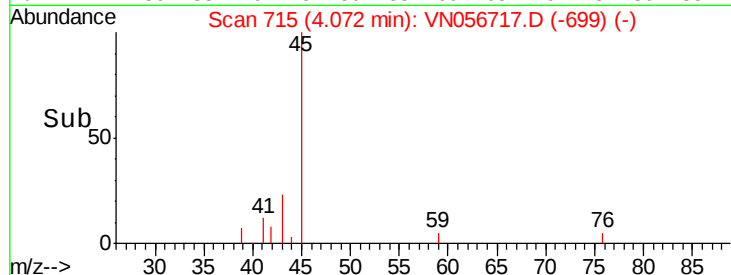
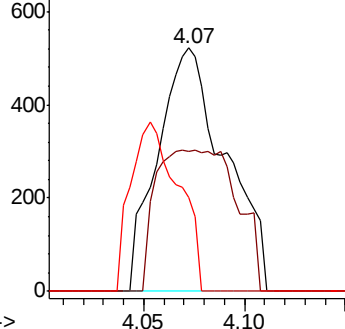
76 48.5 26.5 39.7#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0



#16

Acetone

Concen: 3.179 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.02 min

Lab File: VN056717.D

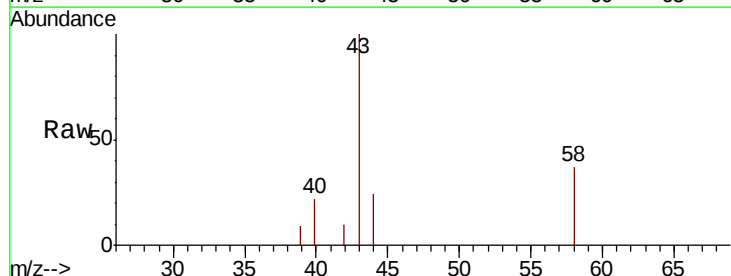
Acq: 15 Jul 2019 17:12

Tgt Ion: 43 Resp: 4558

Ion Ratio Lower Upper

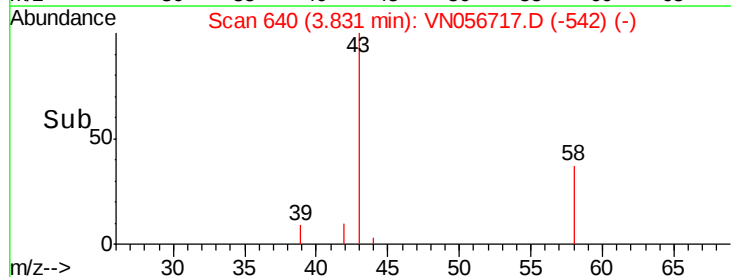
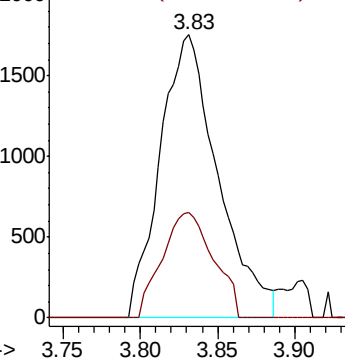
43 100

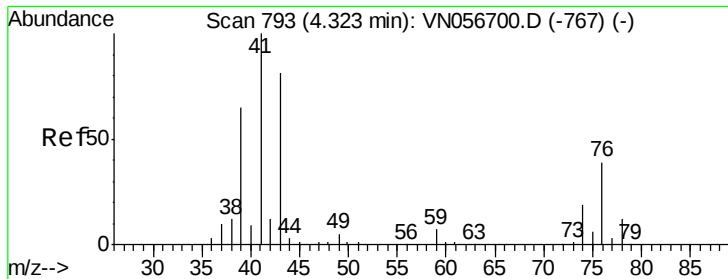
58 37.4 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

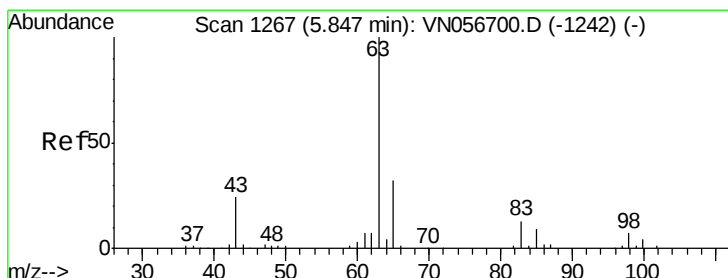
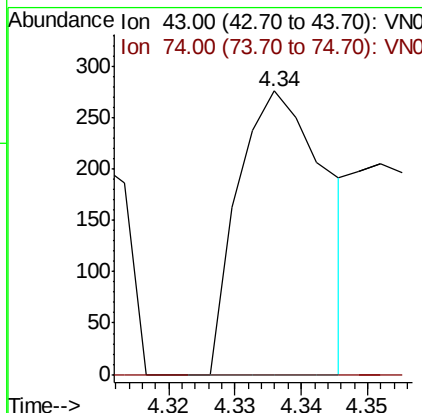
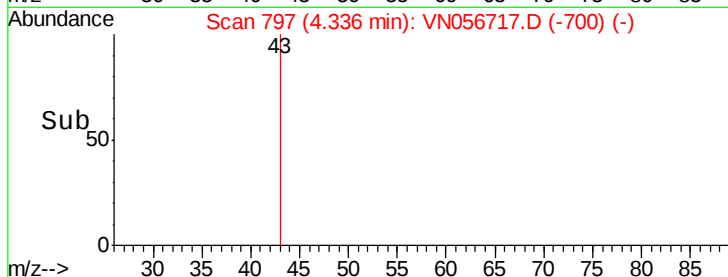
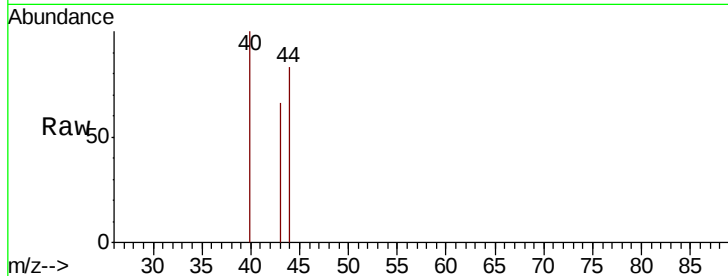




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056717.D
Acq: 15 Jul 2019 17:12

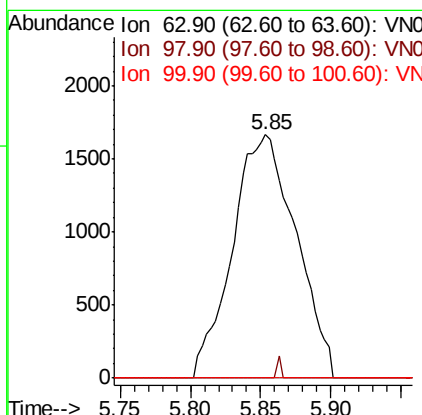
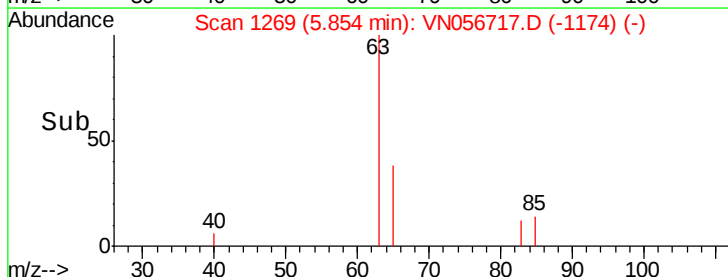
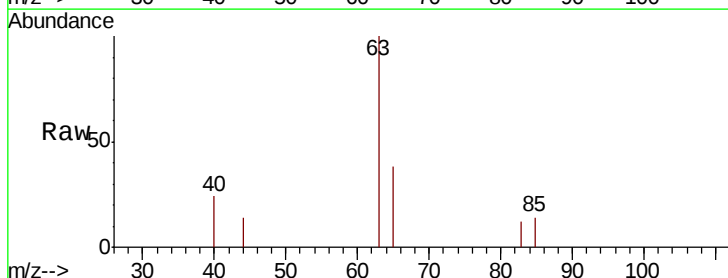
Instrument :
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SA-TW533-3439

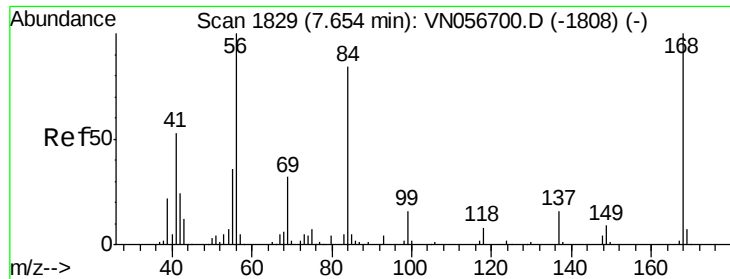
Tot Ion: 43 Resp: 256
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#24
1,1-Dichloroethane
Concen: 1.002 ug/l
RT: 5.85 min Scan# 1269
Delta R.T. 0.01 min
Lab File: VN056717.D
Acq: 15 Jul 2019 17:12

Tgt Ion: 63 Resp: 5241
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.9#
100 0.0 2.0 5.8#

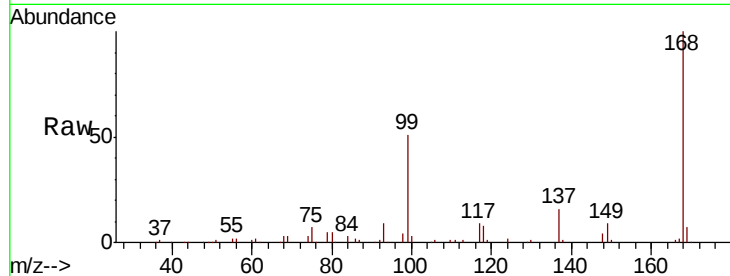




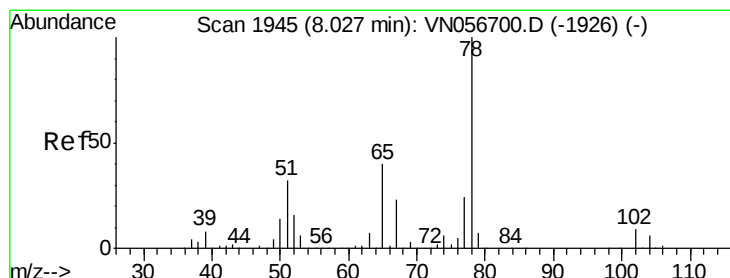
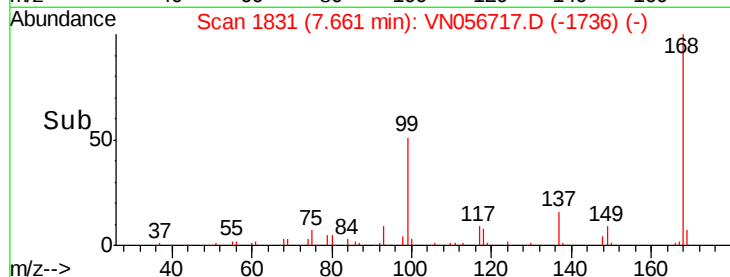
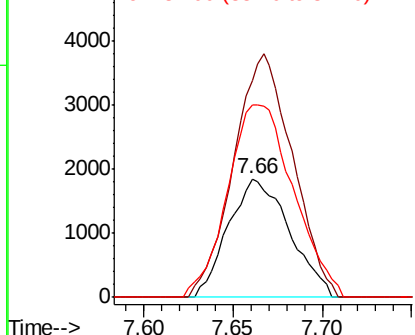
#31
Cyclohexane
Concen: 0.888 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056717.D
Acq: 15 Jul 2019 17:12

Instrument :
MSVOA_N
ClientSampleId :
SA-TW533-3439

Tot Ion: 56 Resp: 4416
Ion Ratio Lower Upper
56 100
69 182.2 25.8 38.8#
84 153.3 67.4 101.0#

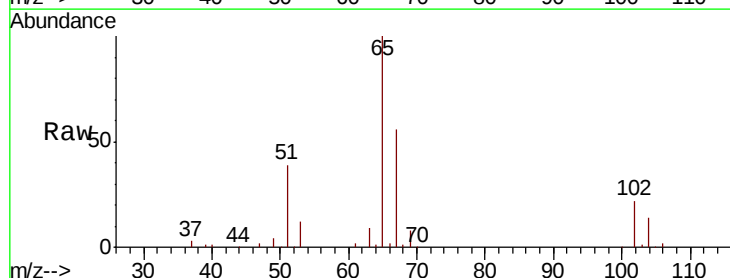


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

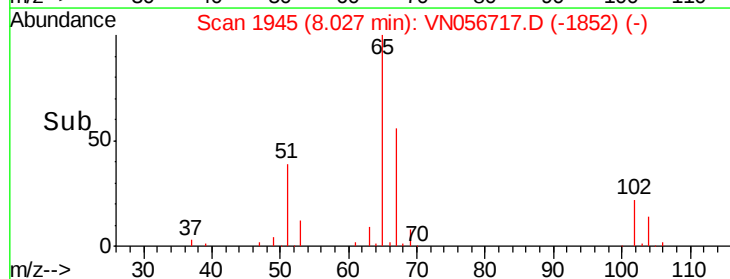
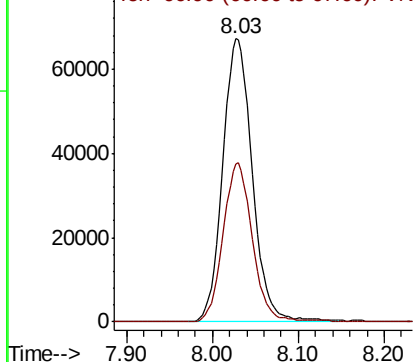


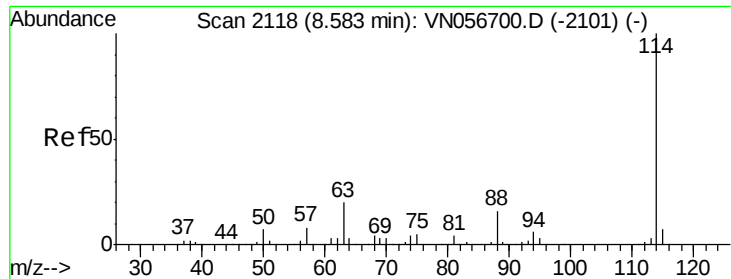
#33
1,2-Dichloroethane-d4
Concen: 51.610 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056717.D
Acq: 15 Jul 2019 17:12

Tgt Ion: 65 Resp: 160566
Ion Ratio Lower Upper
65 100
67 55.4 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

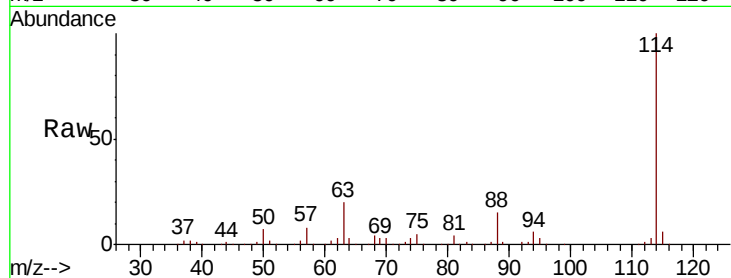




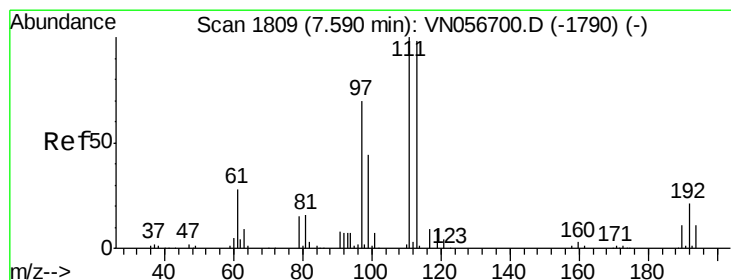
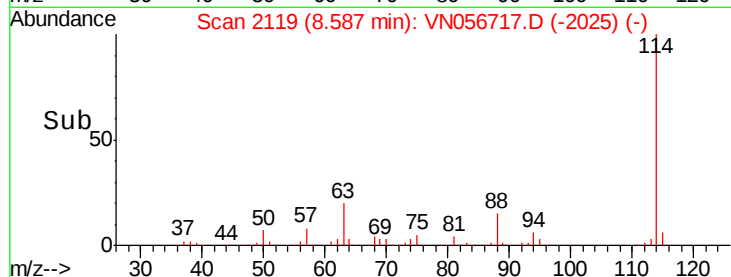
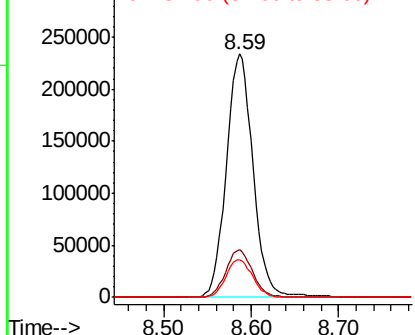
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN056717.D
Acq: 15 Jul 2019 17:12

Instrument :
MSVOA_N
ClientSampleId :
SA-TW533-3439

Tot Ion:114 Resp: 494983
Ion Ratio Lower Upper
114 100
63 19.6 0.0 39.4
88 15.3 0.0 31.2

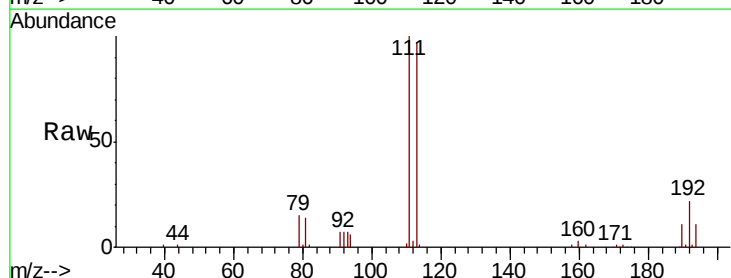


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

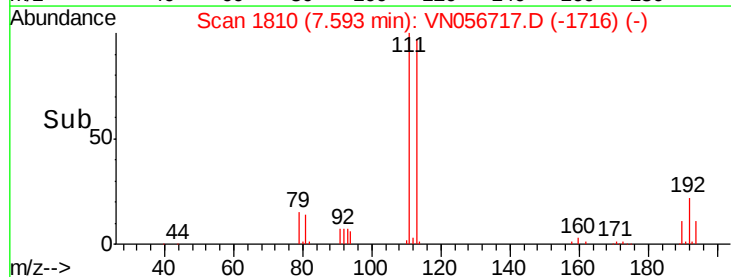
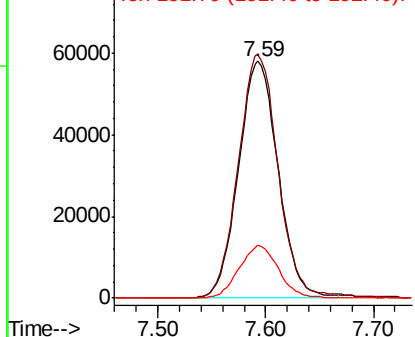


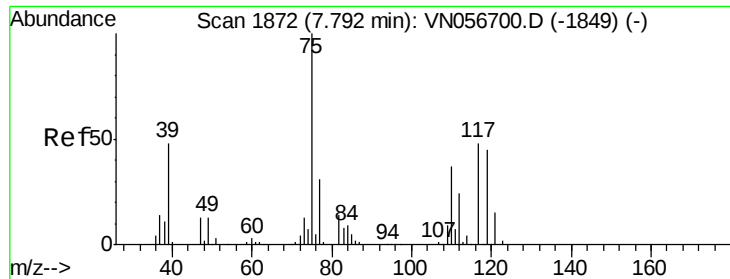
#35
Dibromofluoromethane
Concen: 47.910 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN056717.D
Acq: 15 Jul 2019 17:12

Tgt Ion:113 Resp: 147580
Ion Ratio Lower Upper
113 100
111 103.7 81.8 122.6
192 22.1 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: 3.981 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

Instrument :

MSVOA_N

ClientSampleId :

SA-TW533-3439

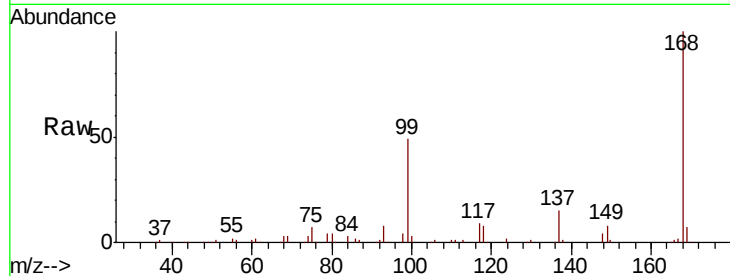
Tot Ion: 75 Resp: 18235

Ion Ratio Lower Upper

75 100

110 8.3 18.4 55.4#

77 0.0 24.6 36.8#

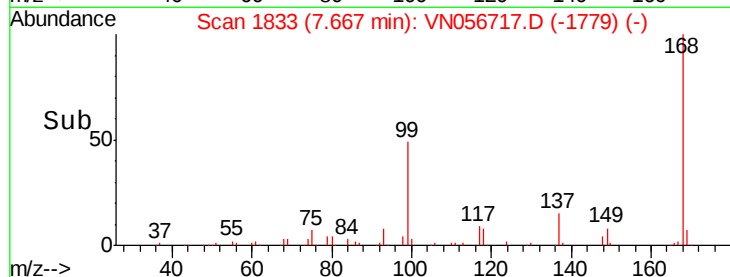


Abundance Ion 74.90 (74.60 to 75.60): VN056717.D (-1779) (-)

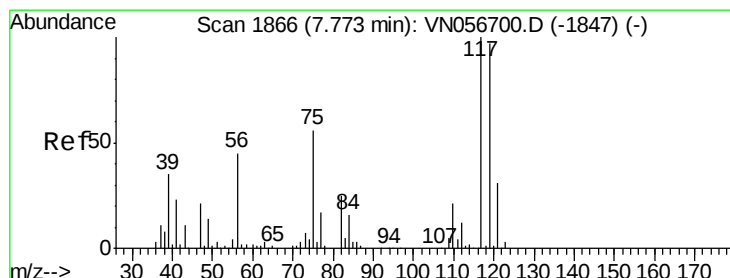
Ion 109.90 (109.60 to 110.60): VN056717.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN056717.D (-1779) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 5.727 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

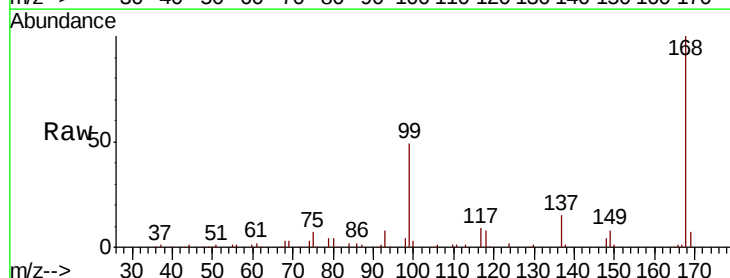
Tgt Ion: 117 Resp: 24600

Ion Ratio Lower Upper

117 100

119 4.7 77.5 116.3#

121 0.0 24.7 37.1#

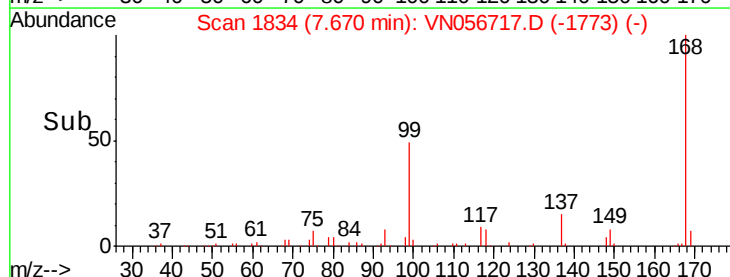


Abundance Ion 116.80 (116.50 to 117.50): VN056717.D (-1773) (-)

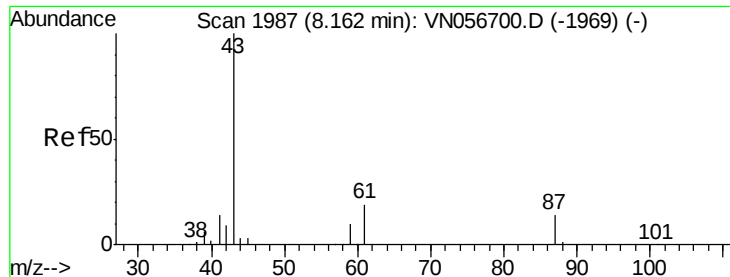
Ion 118.80 (118.50 to 119.50): VN056717.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN056717.D (-1773) (-)

Time-->



Time-->



#43

Isopropyl Acetate

Concen: 0.997 ug/l

RT: 8.29 min Scan# 2028

Delta R.T. 0.13 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

Instrument :

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SA-TW533-3439

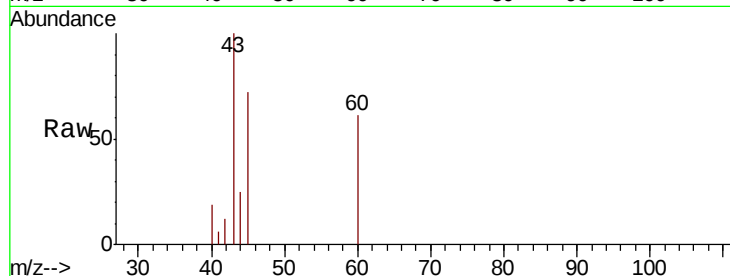
Tot Ion: 43 Resp: 7073

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

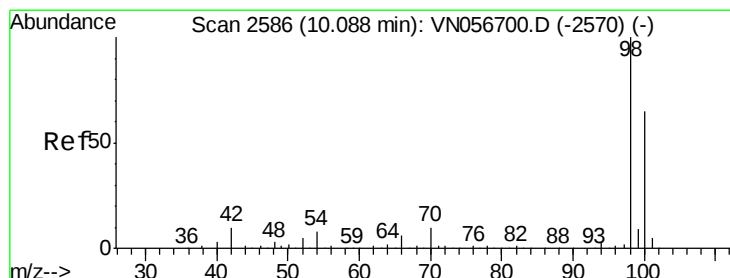
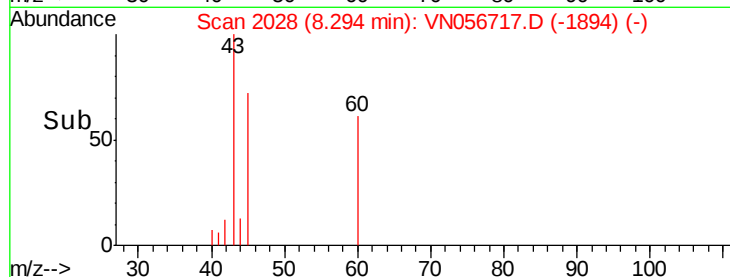
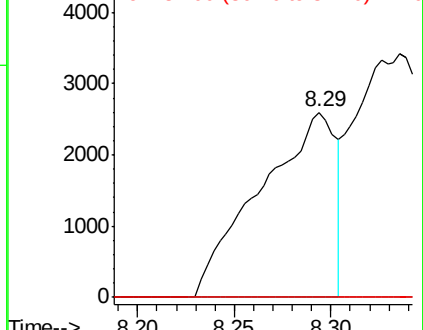
87 0.0 11.1 16.7#



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: 52.172 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056717.D

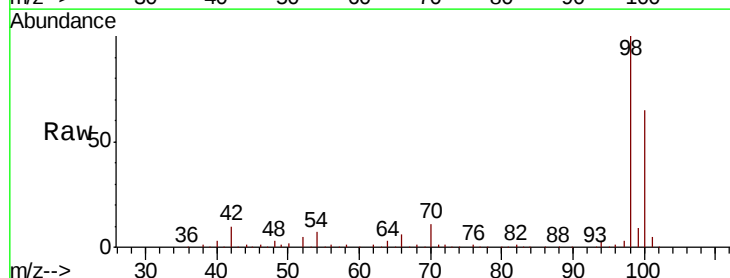
Acq: 15 Jul 2019 17:12

Tgt Ion: 98 Resp: 620698

Ion Ratio Lower Upper

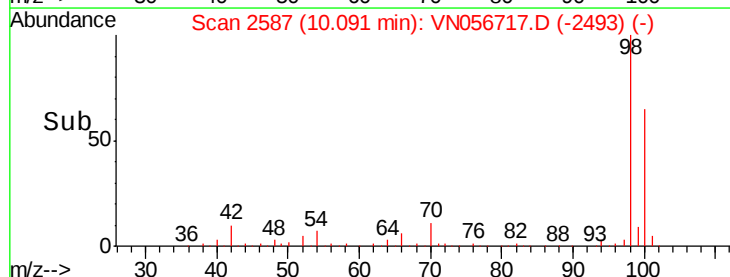
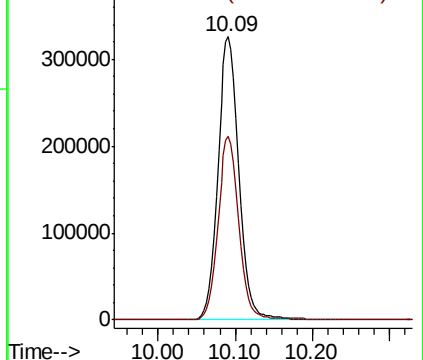
98 100

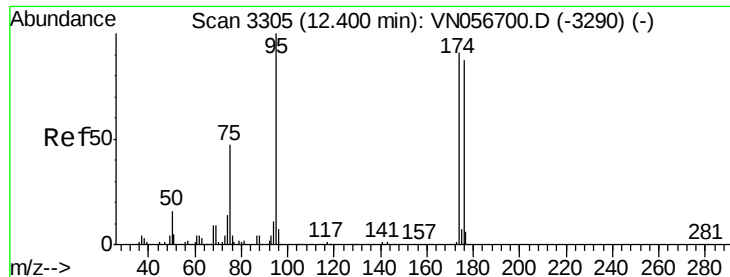
100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 56.869 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

Instrument :

MSVOA_N

ClientSampleId :

SA-TW533-3439

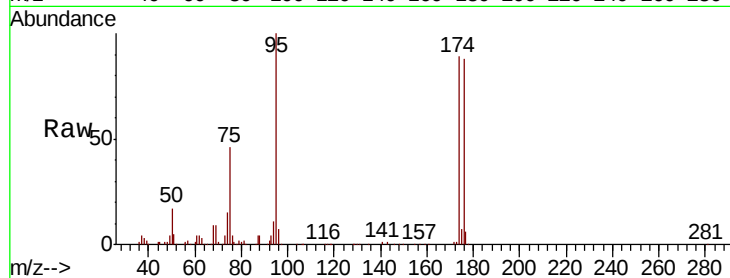
Tot Ion: 95 Resp: 228164

Ion Ratio Lower Upper

95 100

174 89.9 0.0 180.0

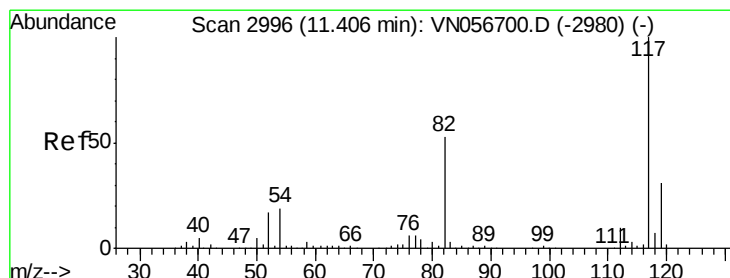
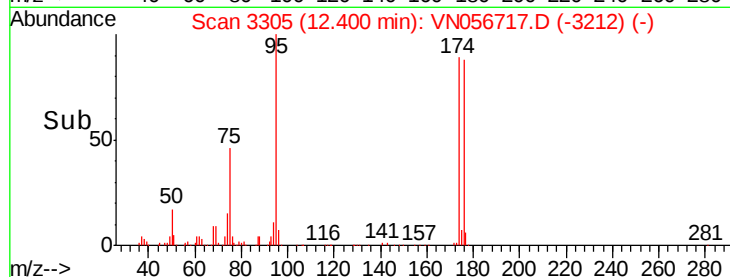
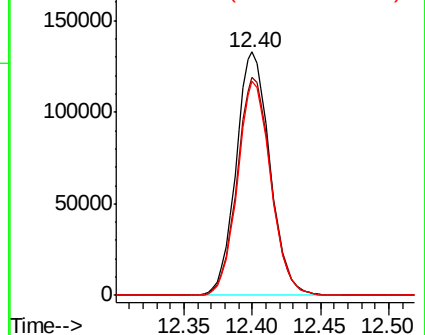
176 86.7 0.0 173.2



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: VN056717.D

Acq: 15 Jul 2019 17:12

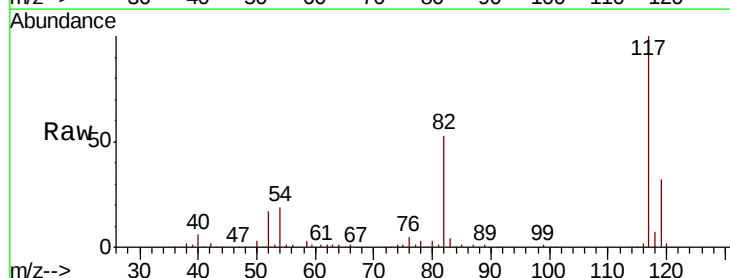
Tgt Ion: 117 Resp: 514998

Ion Ratio Lower Upper

117 100

82 53.4 42.2 63.2

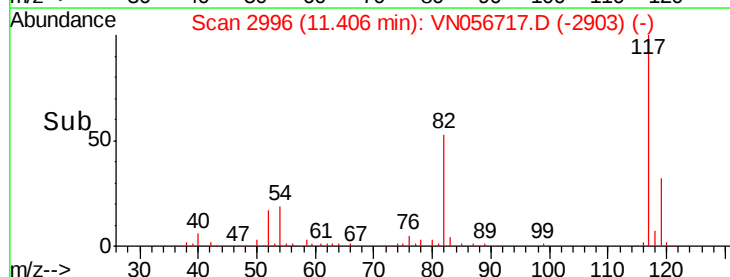
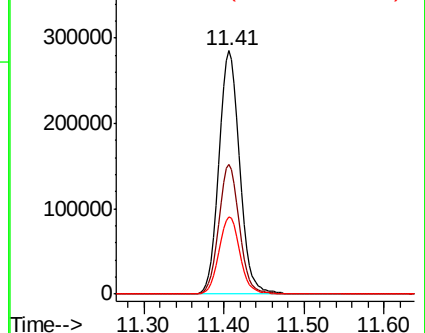
119 31.9 25.2 37.8

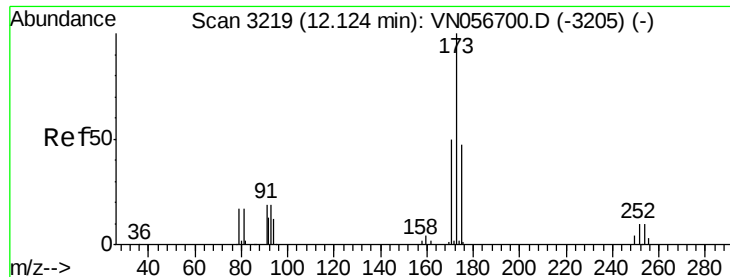


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.546 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

Instrument :

MSVOA_N

ClientSampleId :

SA-TW533-3439

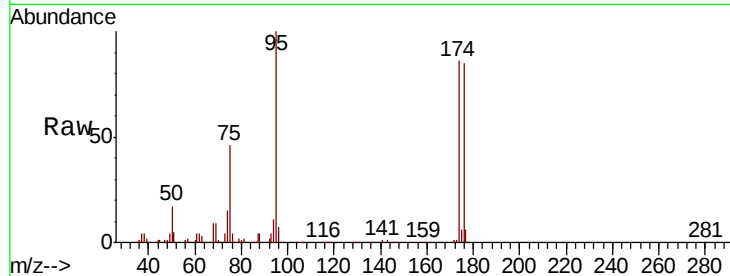
Tot Ion:173 Resp: 1612

Ion Ratio Lower Upper

173 100

175 740.0 23.8 71.4#

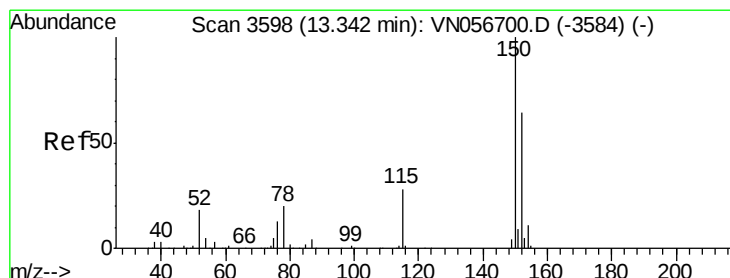
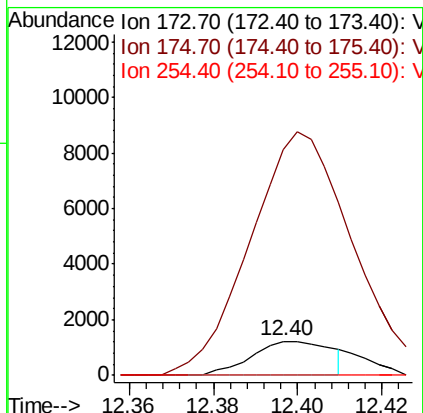
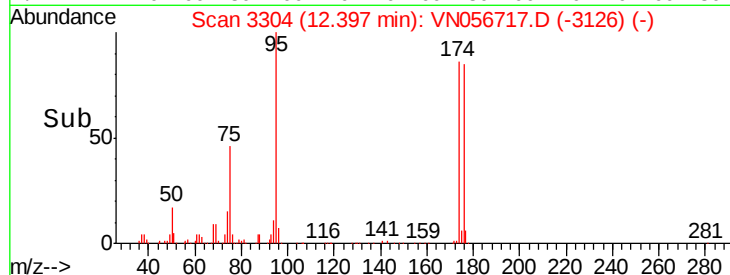
254 0.0 0.0 0.0



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: VN056717.D

Acq: 15 Jul 2019 17:12

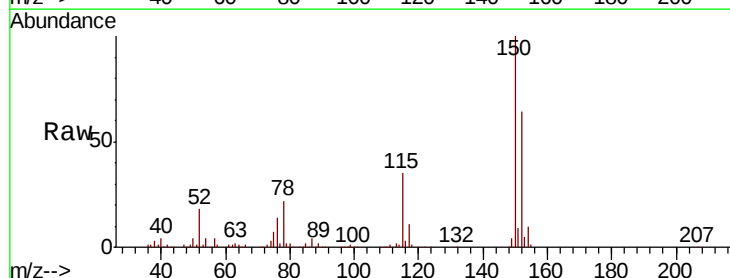
Tgt Ion:152 Resp: 200741

Ion Ratio Lower Upper

152 100

115 55.4 28.2 84.7

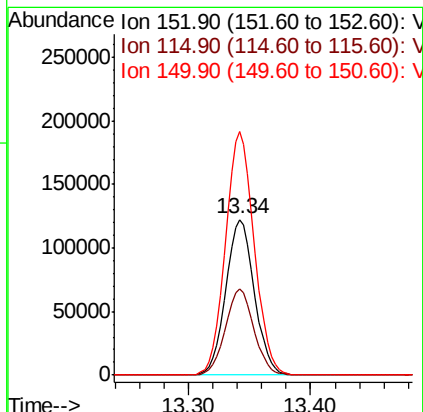
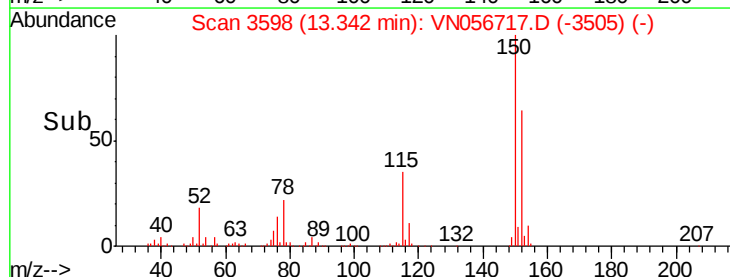
150 157.2 0.0 345.8

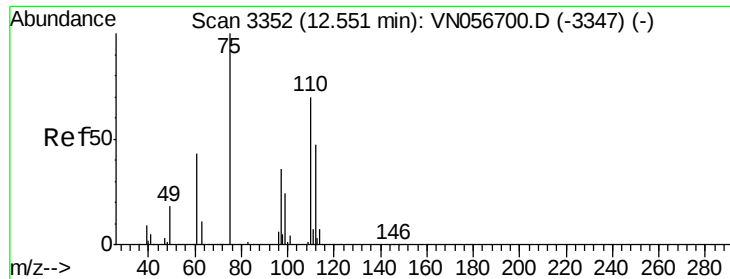


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.690 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

Instrument :

MSVOA_N

ClientSampleId :

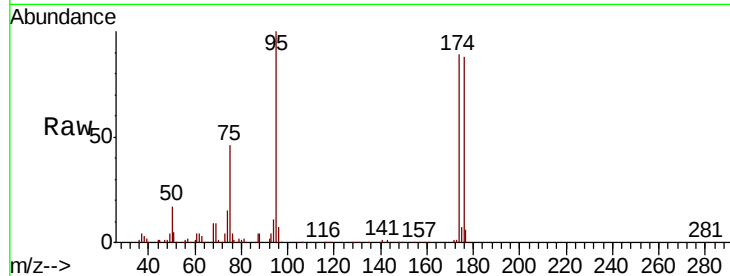
SA-TW533-3439

Tot Ion: 75 Resp: 104009

Ion Ratio Lower Upper

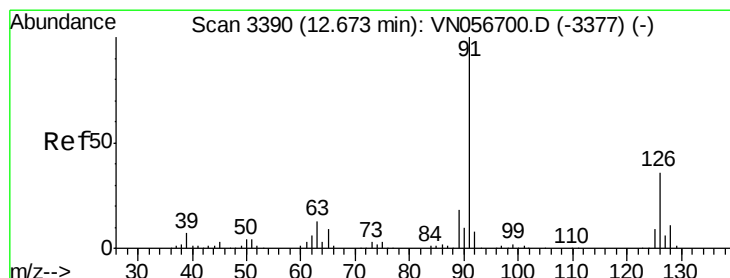
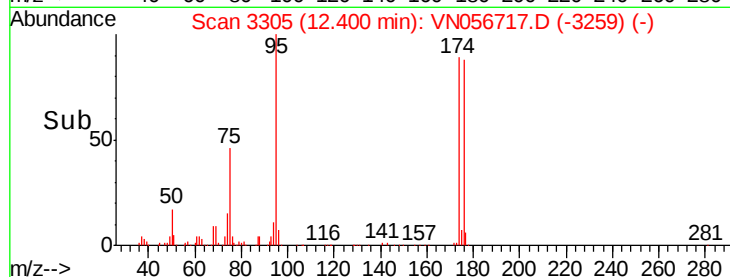
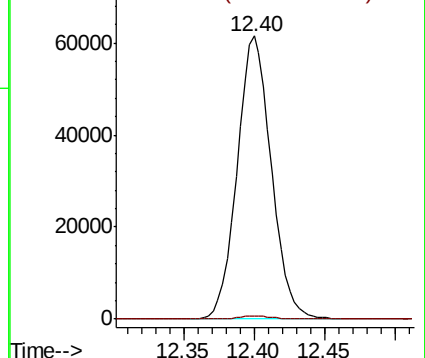
75 100

77 1.0 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# 3363

Delta R.T. -0.09 min

Lab File: VN056717.D

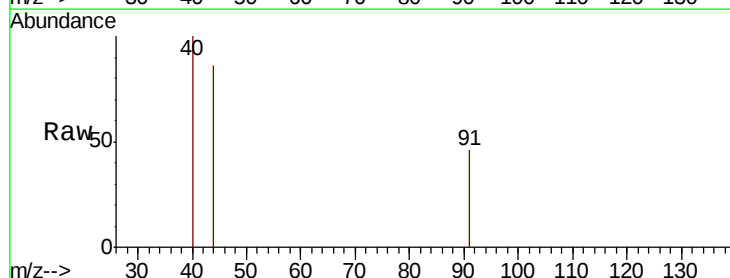
Acq: 15 Jul 2019 17:12

Tgt Ion: 91 Resp: 173

Ion Ratio Lower Upper

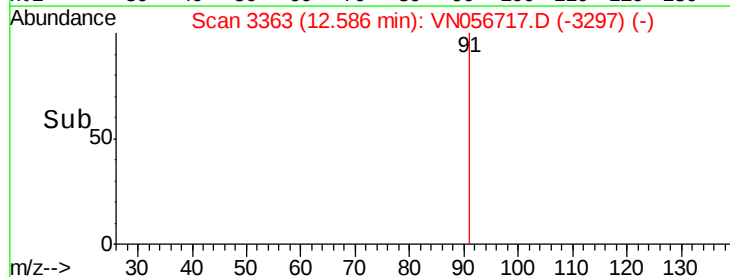
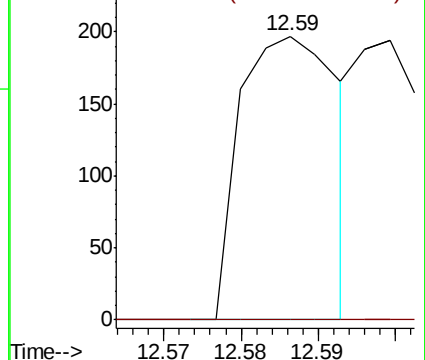
91 100

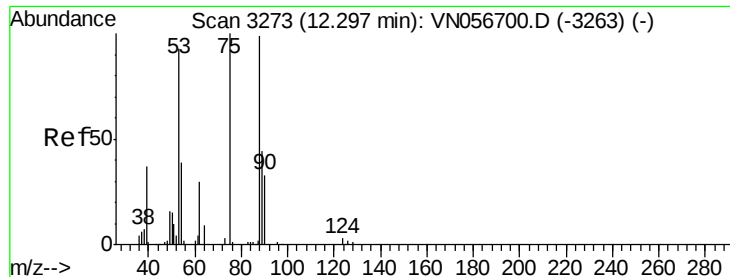
126 0.0 17.9 53.7#



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: 73.161 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

Instrument :

MSVOA_N

ClientSampleId :

SA-TW533-3439

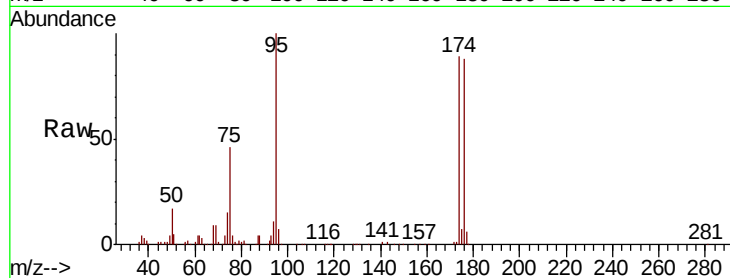
Tot Ion: 75 Resp: 104009

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#

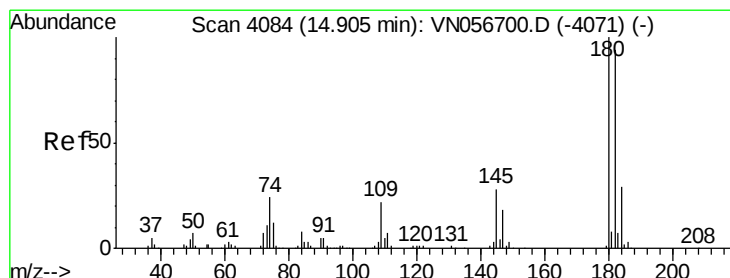
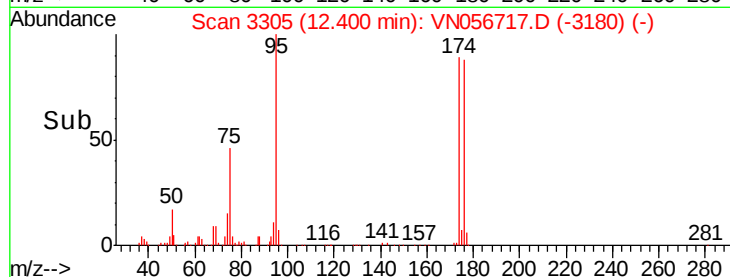
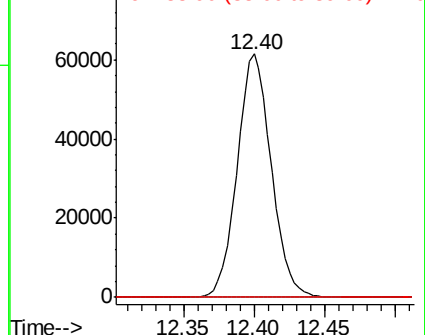


Abundance

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



#93

1,2,4-Trichlorobenzene

Concen: 3.724 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

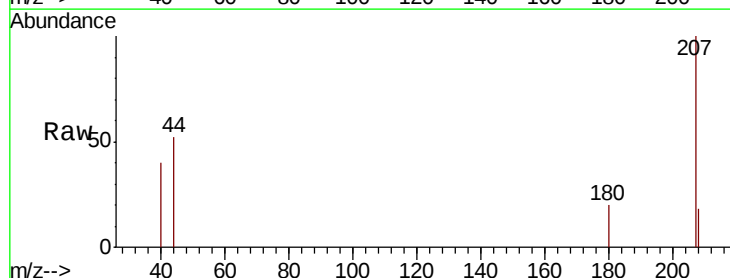
Tgt Ion:180 Resp: 136

Ion Ratio Lower Upper

180 100

182 49.3 47.2 141.6

145 0.0 14.2 42.8#

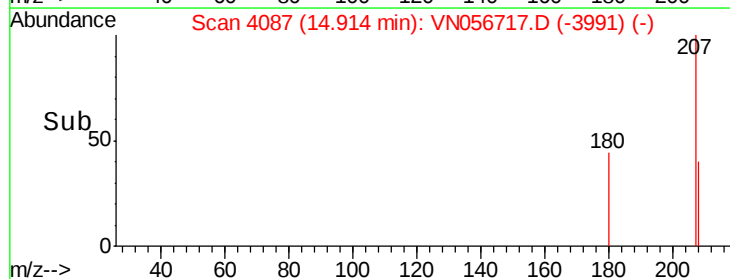
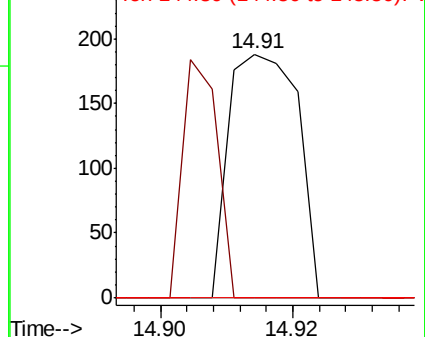


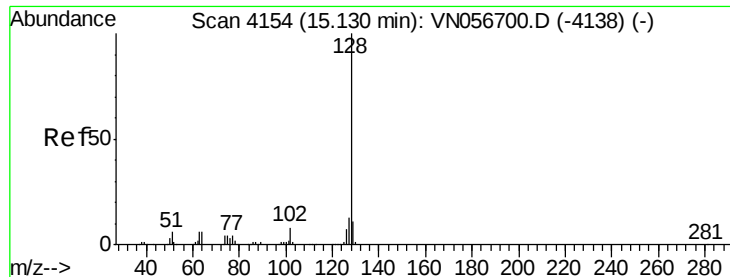
Abundance

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: 4.579 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

Instrument :

MSVOA_N

ClientSampleId :

SA-TW533-3439

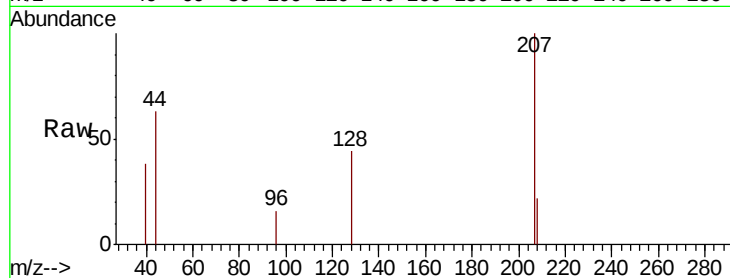
Tot Ion:128 Resp: 630

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#

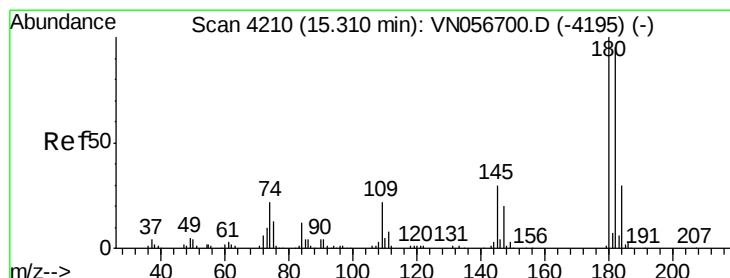
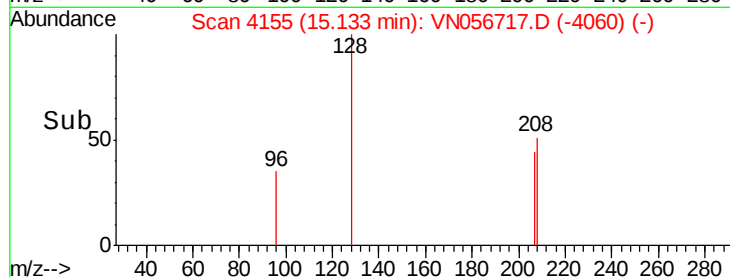
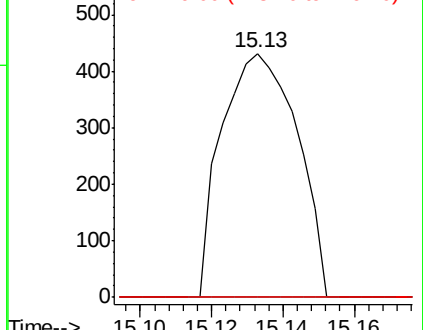


Abundance

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: 3.330 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.01 min

Lab File: VN056717.D

Acq: 15 Jul 2019 17:12

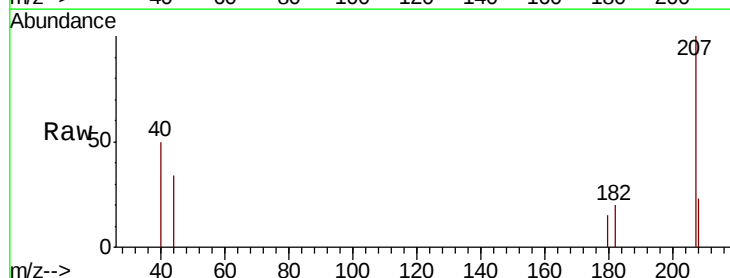
Tgt Ion:180 Resp: 29

Ion Ratio Lower Upper

180 100

182 906.9 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

