

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056727.D
 Acq On : 15 Jul 2019 21:51
 Operator : JC/SP
 Sample : VN0715WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBL02

Quant Time: Jul 16 04:26:30 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	266201	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	471926	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	492932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	194680	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	154174	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
35) Dibromofluoromethane	7.59	113	139106	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
50) Toluene-d8	10.09	98	595423	52.49	ug/l	0.00
Spiked Amount			Recovery	=	104.98%	
62) 4-Bromofluorobenzene	12.40	95	218511	57.12	ug/l	0.00
Spiked Amount			Recovery	=	114.24%	

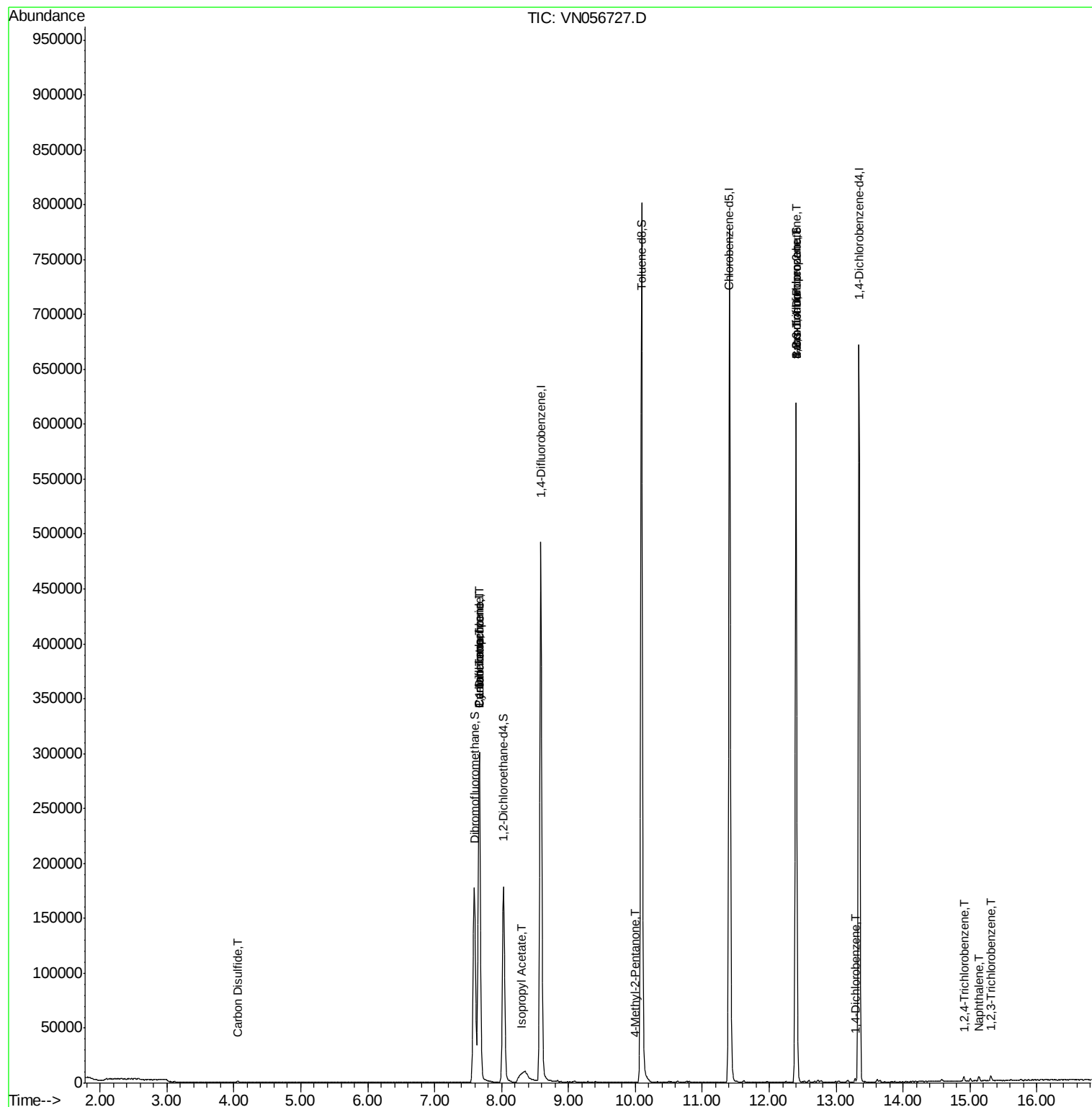
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
17) Carbon Disulfide	4.05	76	2296	0.347	ug/l #	75
31) Cyclohexane	7.66	56	4617	0.981	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	17224	3.944	ug/l #	48
38) Carbon Tetrachloride	7.67	117	23402	5.714	ug/l #	16
43) Isopropyl Acetate	8.29	43	8569	1.266	ug/l #	53
51) 4-Methyl-2-Pentanone	10.00	43	970	0.221	ug/l #	35
71) Bromoform	12.40	173	1514	0.536	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.51	83	94	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	102285	24.022	ug/l #	100
79) 2-Chlorotoluene	12.77	91	1489	Below Cal		89
81) trans-1,4-Dichloro-2-buten	12.40	75	102285	74.188	ug/l #	13
83) tert-Butylbenzene	12.99	119	527	Below Cal	#	85
88) 1,4-Dichlorobenzene	13.28	146	1319	0.202	ug/l	92
93) 1,2,4-Trichlorobenzene	14.91	180	1696	4.105	ug/l	88
94) Hexachlorobutadiene	15.00	225	888	Below Cal	#	58
95) Naphthalene	15.13	128	4249	4.896	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.31	180	2037	3.827	ug/l	88

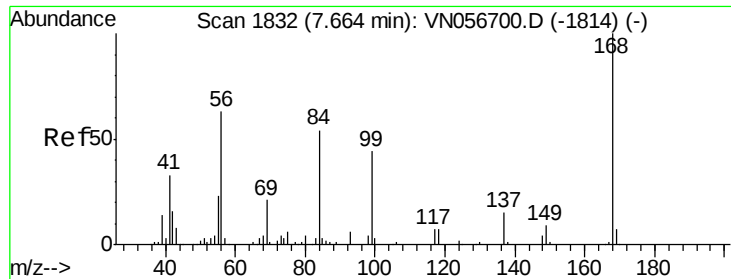
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VN056727.D

Acq: 15 Jul 2019 21:51

Instrument :

MSVOA_N

ClientSampleId :

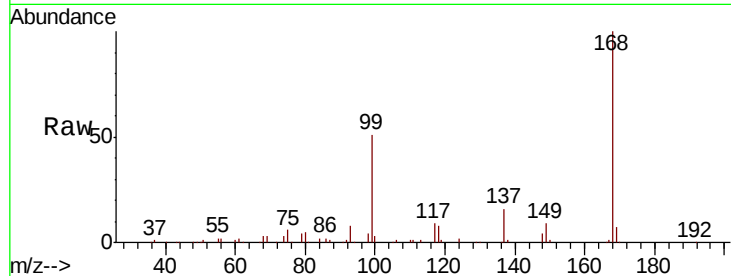
VN0715WBL02

Tot Ion:168 Resp: 266201

Ion Ratio Lower Upper

168 100

99 50.9 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

120000

100000

80000

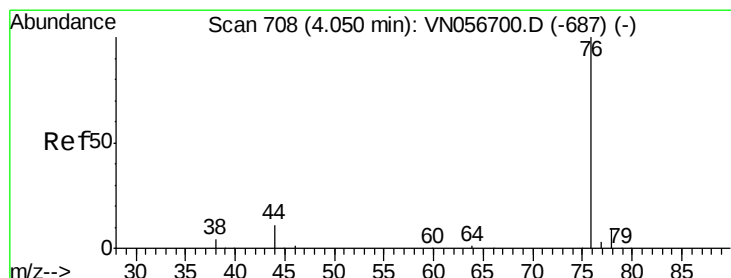
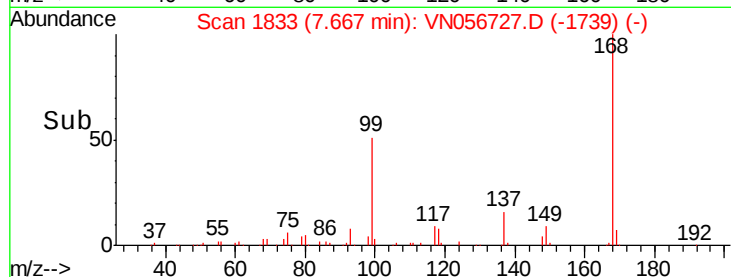
60000

40000

20000

0

Time-->



#17

Carbon Disulfide

Concen: 0.347 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN056727.D

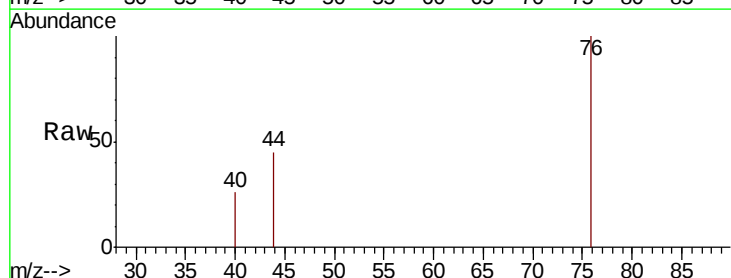
Acq: 15 Jul 2019 21:51

Tgt Ion: 76 Resp: 2296

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN

Ion 77.90 (77.60 to 78.60): VN

4.05

1200

1000

800

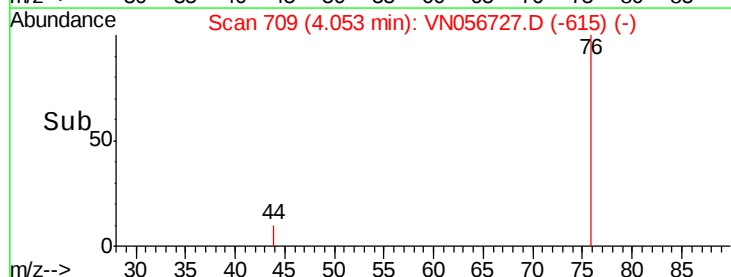
600

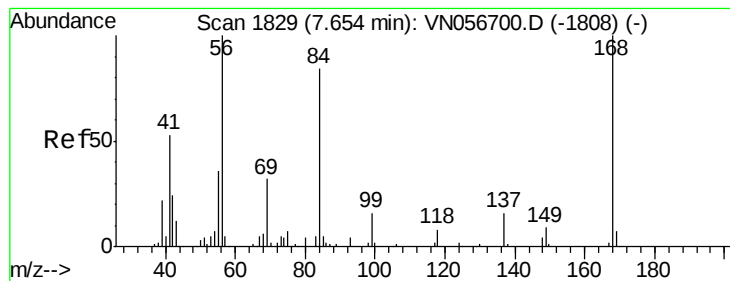
400

200

0

Time-->





#31

Cyclohexane

Concen: 0.981 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBL02

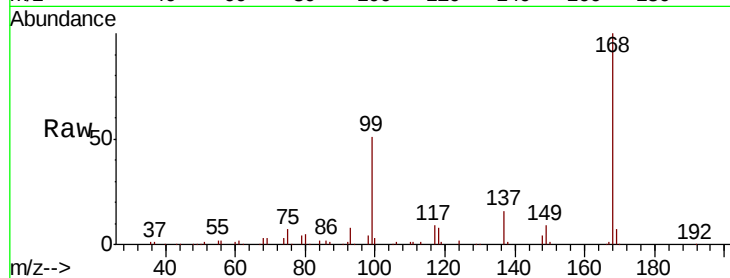
Tot Ion: 56 Resp: 4617

Ion Ratio Lower Upper

56 100

69 204.4 25.8 38.8#

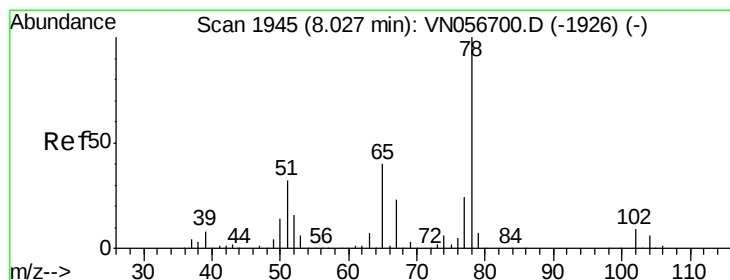
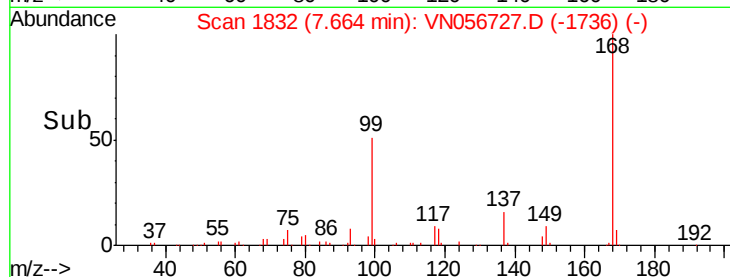
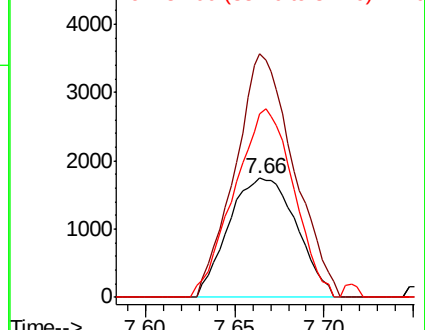
84 153.8 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.359 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056727.D

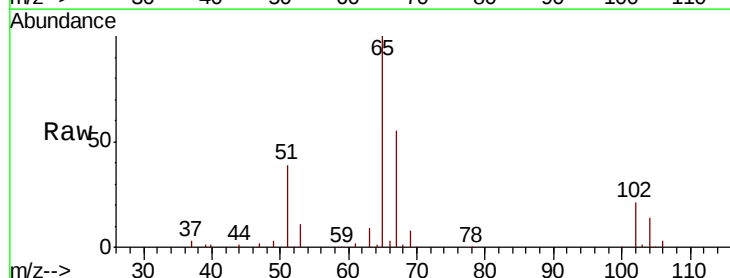
Acq: 15 Jul 2019 21:51

Tgt Ion: 65 Resp: 154174

Ion Ratio Lower Upper

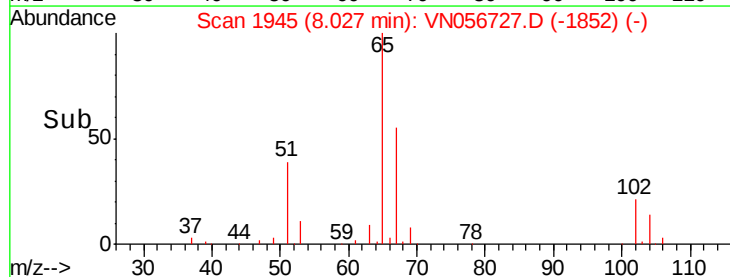
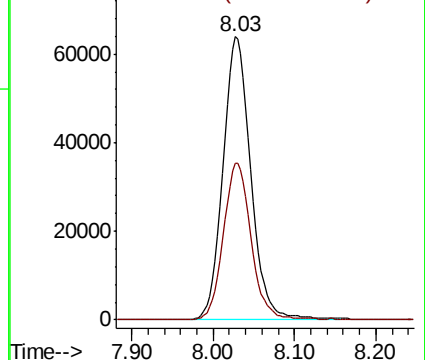
65 100

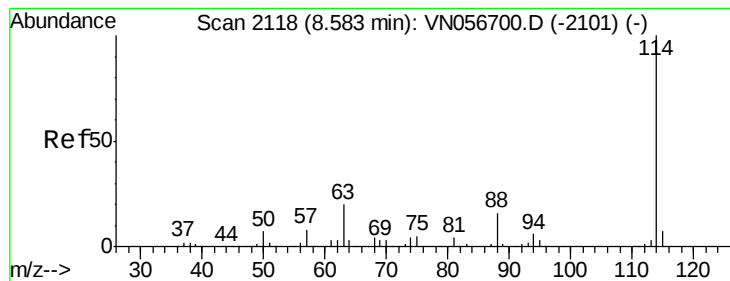
67 55.2 0.0 109.0



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: VN056727.D

Acq: 15 Jul 2019 21:51

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBL02

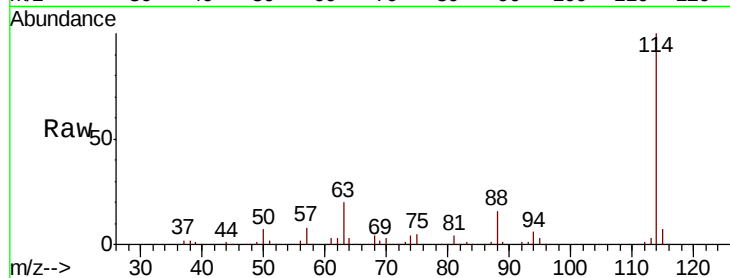
Tot Ion:114 Resp: 471926

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.4

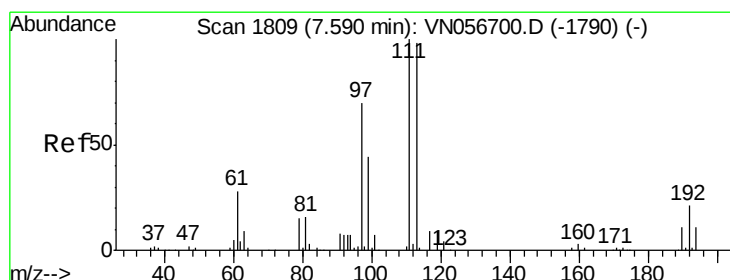
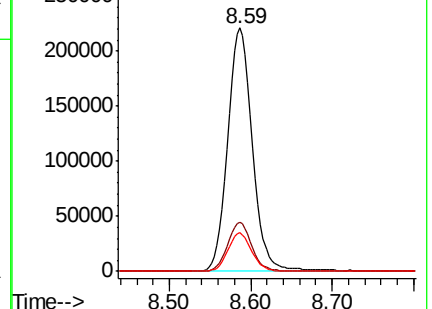
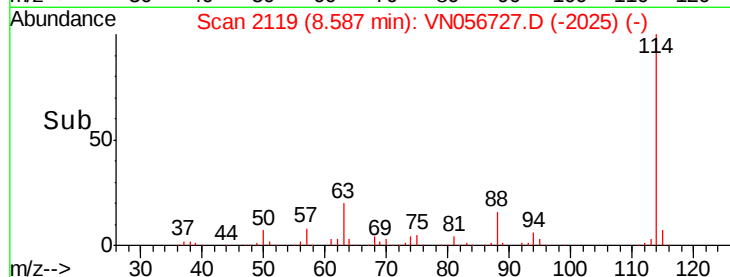
88 15.7 0.0 31.2



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: 47.365 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

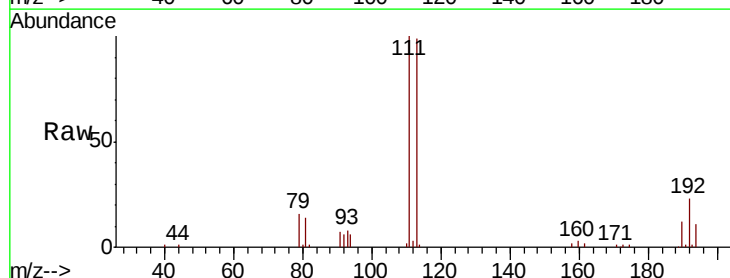
Tgt Ion:113 Resp: 139106

Ion Ratio Lower Upper

113 100

111 103.8 81.8 122.6

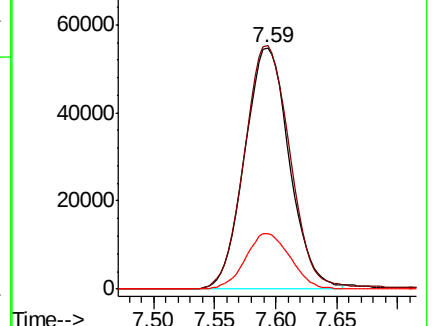
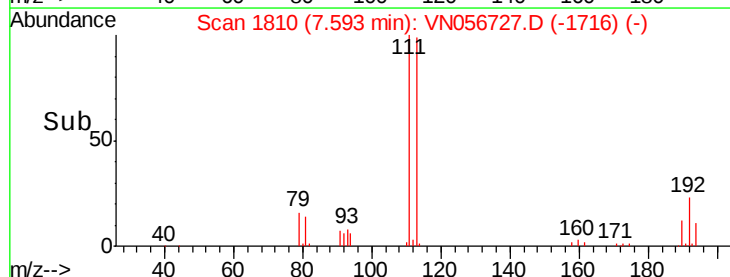
192 23.1 17.5 26.3

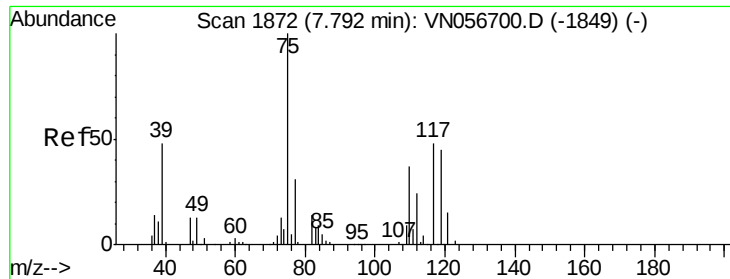


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

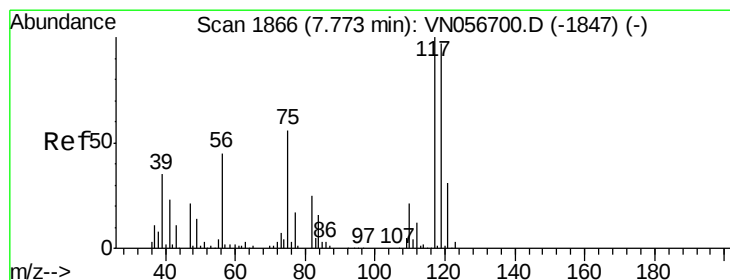
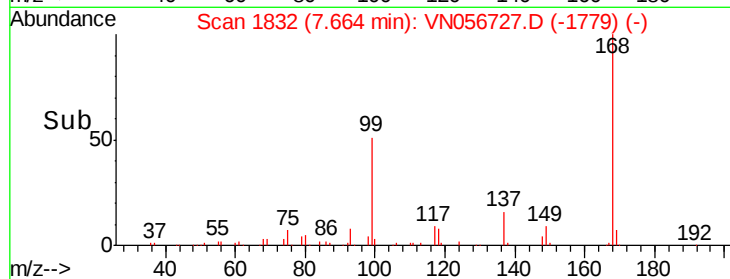
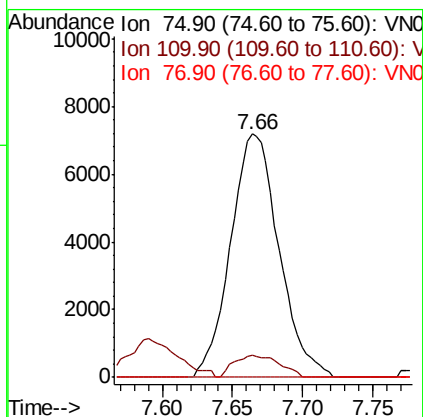
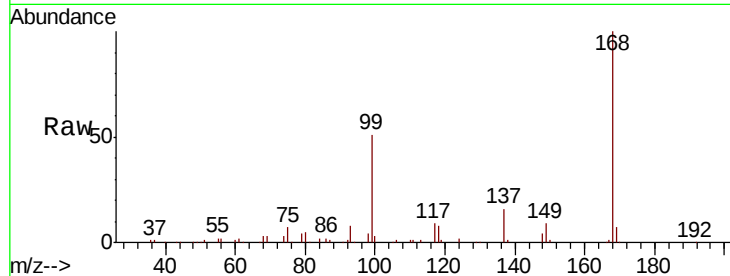




#36
 1,1-Dichloropropene
 Concen: 3.944 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056727.D
 Acq: 15 Jul 2019 21:51

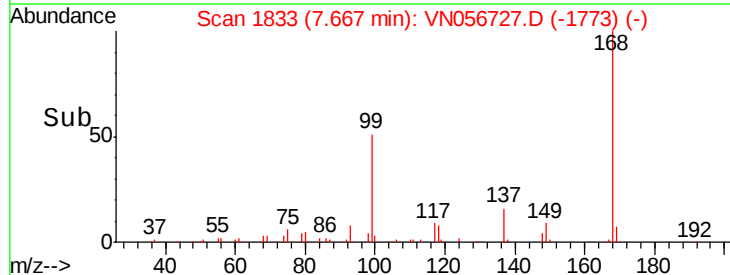
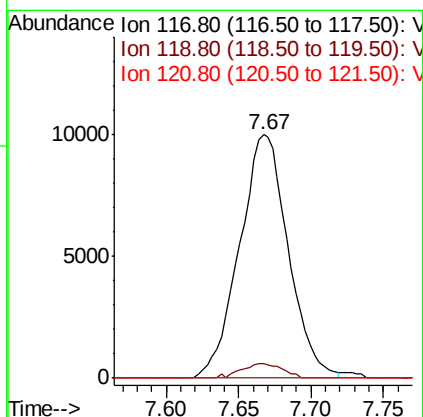
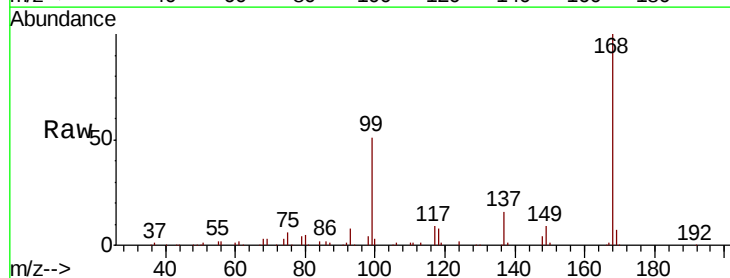
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBL02

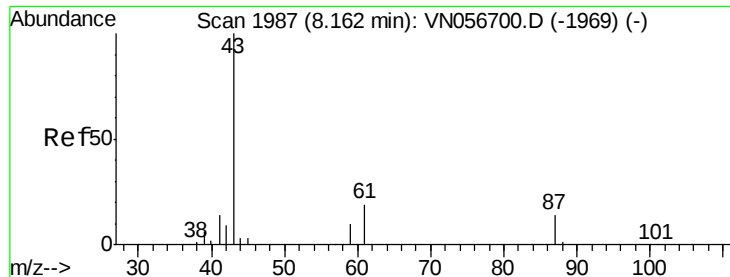
Tot Ion: 75 Resp: 17224
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.4 55.4#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.714 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN056727.D
 Acq: 15 Jul 2019 21:51

Tgt Ion: 117 Resp: 23402
 Ion Ratio Lower Upper
 117 100
 119 6.0 77.5 116.3#
 121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 1.266 ug/l

RT: 8.29 min Scan# 2028

Delta R.T. 0.13 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBL02

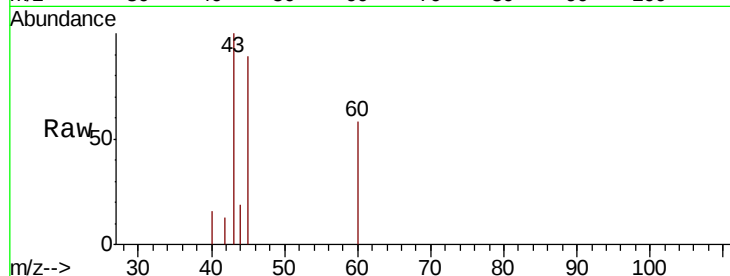
Tot Ion: 43 Resp: 8569

Ion Ratio Lower Upper

43 100

61 0.0 22.3 33.5#

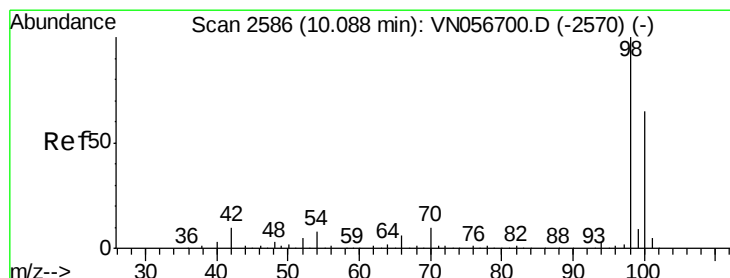
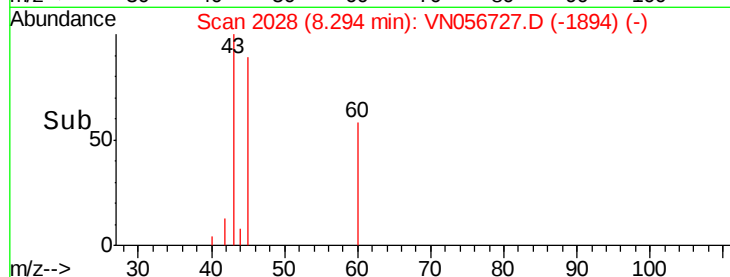
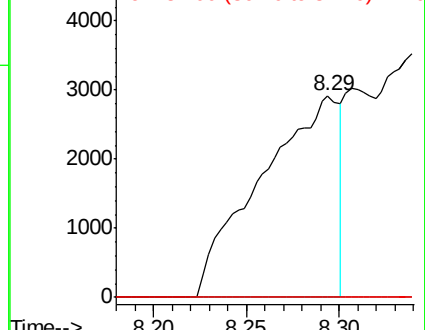
87 0.0 11.1 16.7#



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: 52.493 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056727.D

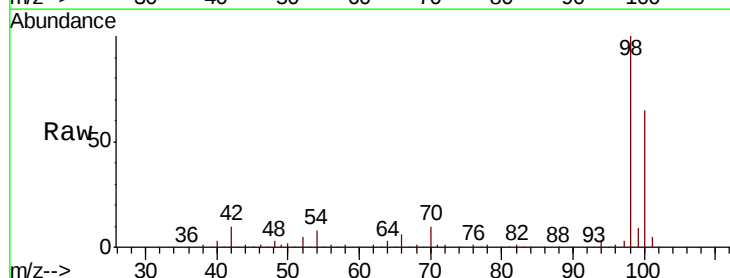
Acq: 15 Jul 2019 21:51

Tgt Ion: 98 Resp: 595423

Ion Ratio Lower Upper

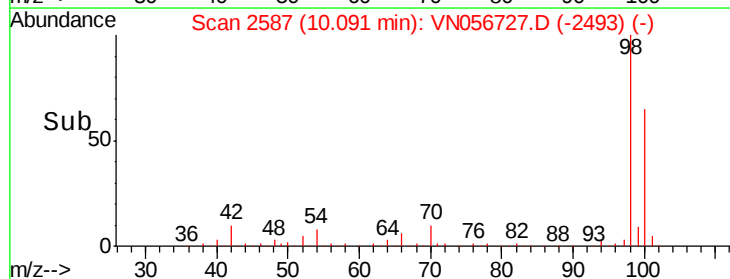
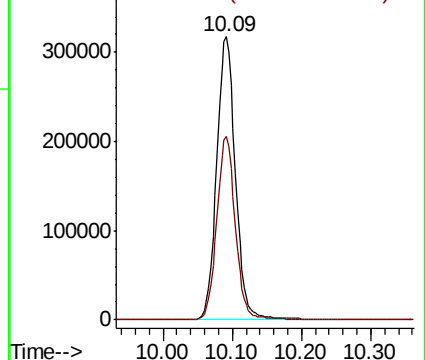
98 100

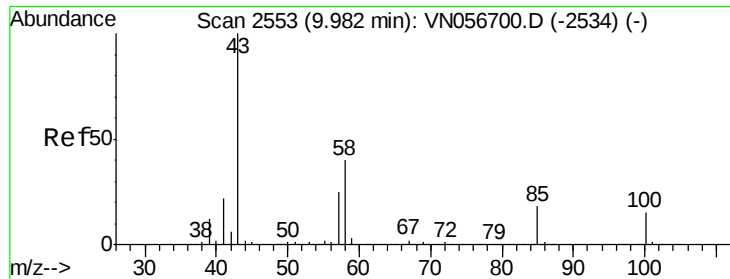
100 64.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.221 ug/l

RT: 10.00 min Scan# 2558

Delta R.T. 0.02 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

Instrument :

MSVOA_N

ClientSampleId :

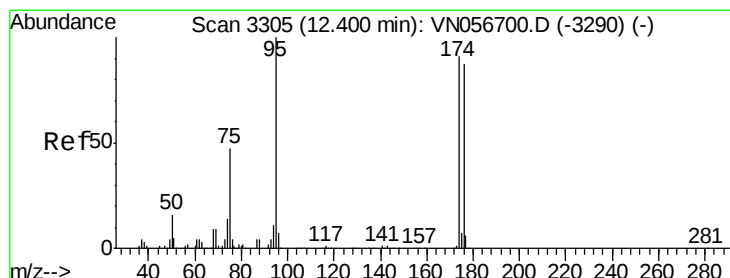
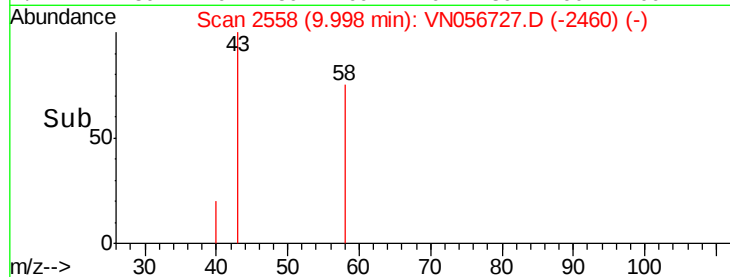
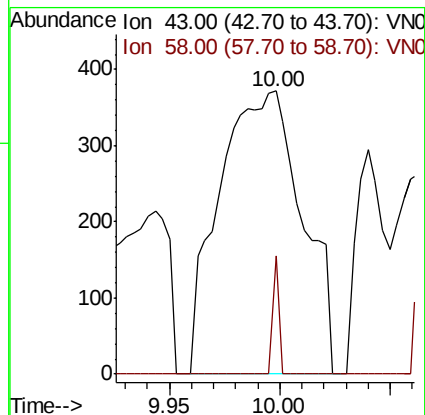
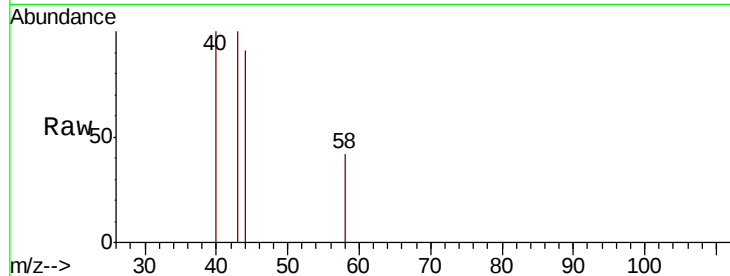
VN0715WBL02

Tot Ion: 43 Resp: 970

Ion Ratio Lower Upper

43 100

58 0.0 32.0 48.0#



#62

4-Bromofluorobenzene

Concen: 57.124 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

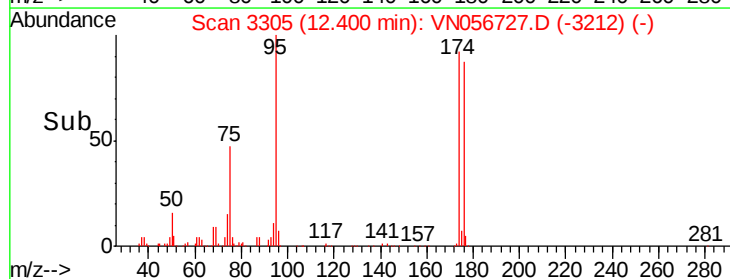
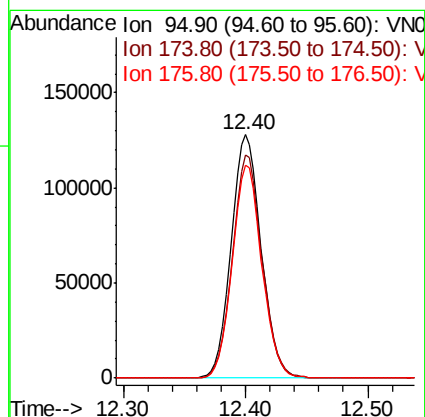
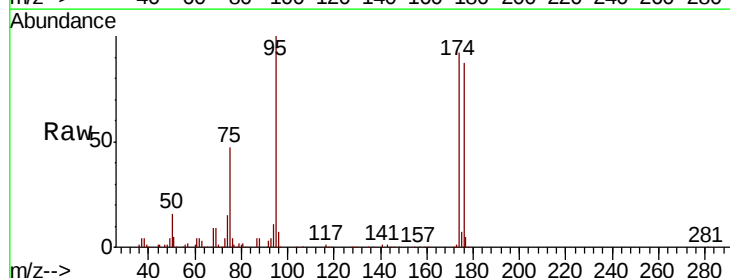
Tgt Ion: 95 Resp: 218511

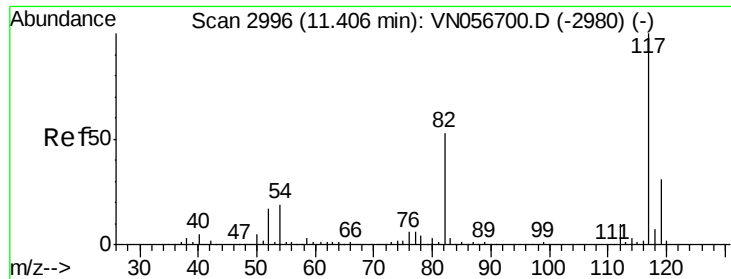
Ion Ratio Lower Upper

95 100

174 90.8 0.0 180.0

176 86.8 0.0 173.2

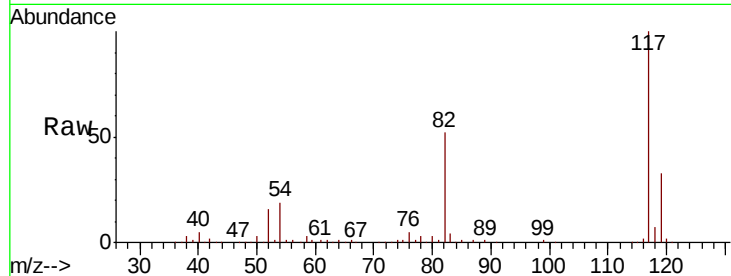




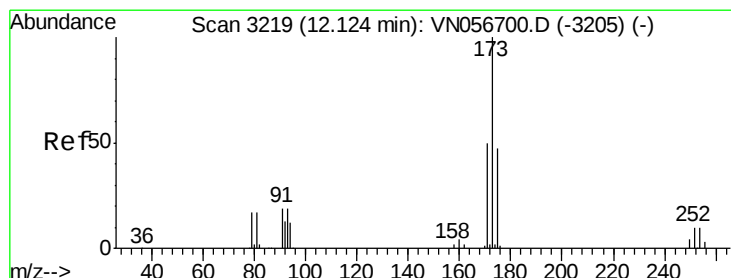
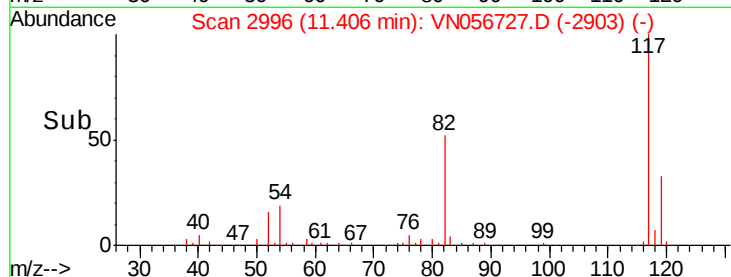
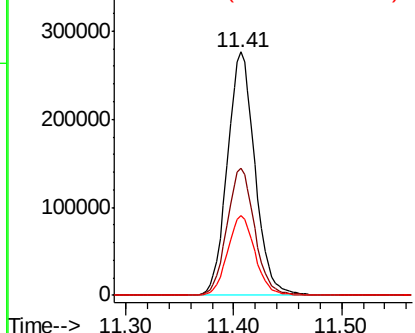
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056727.D
Acq: 15 Jul 2019 21:51

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBL02

Tot Ion:117 Resp: 492932
Ion Ratio Lower Upper
117 100
82 52.1 42.2 63.2
119 32.5 25.2 37.8

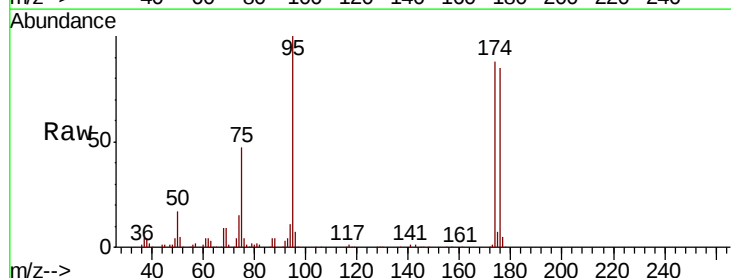


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

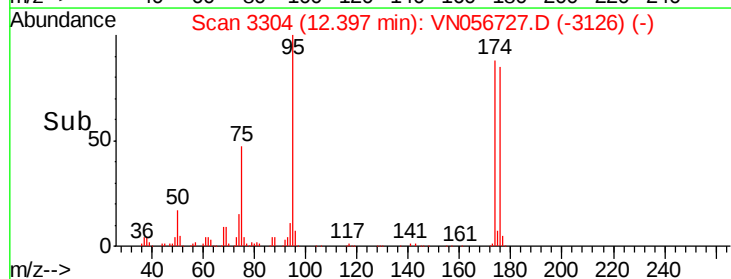
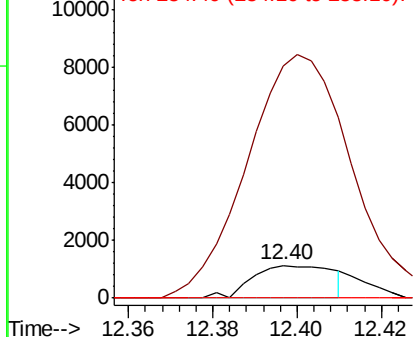


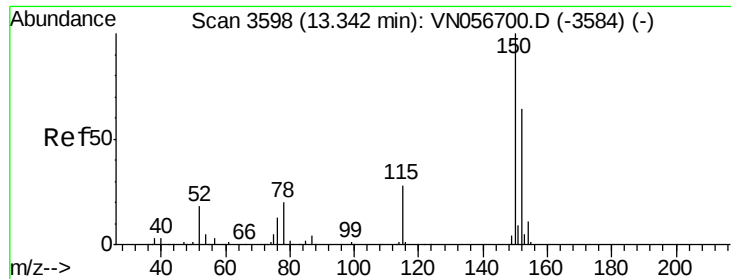
#71
Bromoform
Concen: 0.536 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN056727.D
Acq: 15 Jul 2019 21:51

Tgt Ion:173 Resp: 1514
Ion Ratio Lower Upper
173 100
175 791.6 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: VN056727.D

Acq: 15 Jul 2019 21:51

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBL02

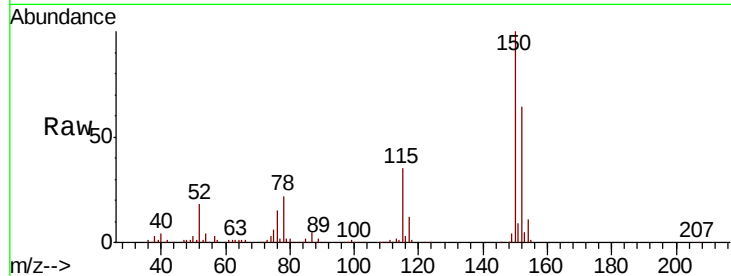
Tot Ion:152 Resp: 194680

Ion Ratio Lower Upper

152 100

115 55.3 28.2 84.7

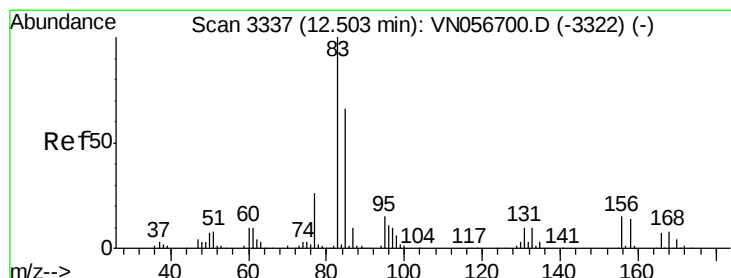
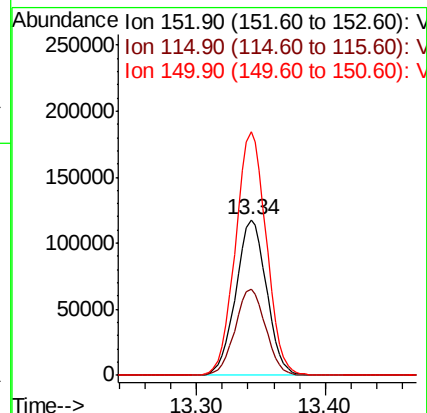
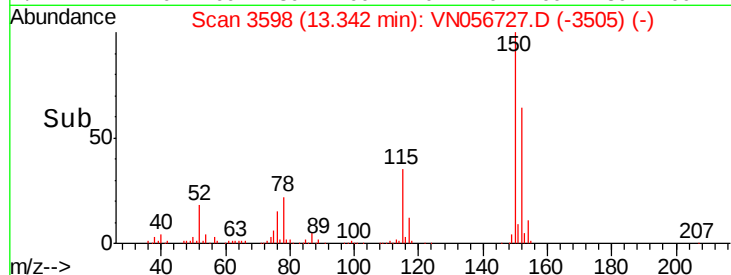
150 157.2 0.0 345.8



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

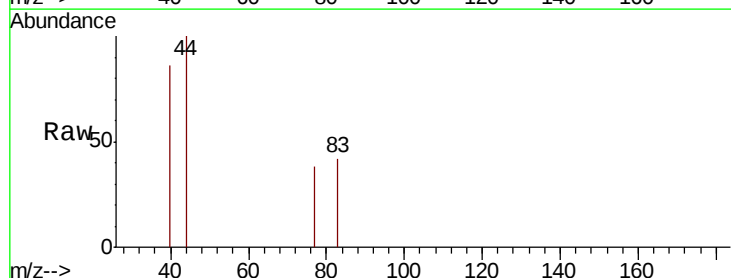
Tgt Ion: 83 Resp: 94

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

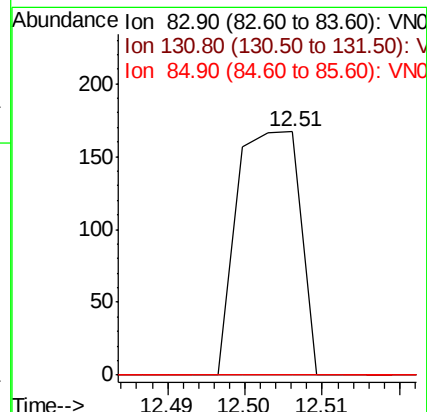
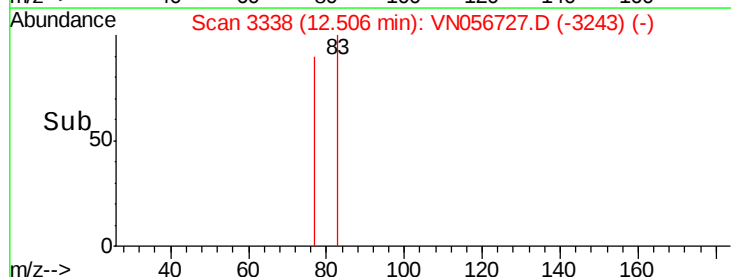
85 0.0 32.6 97.8#

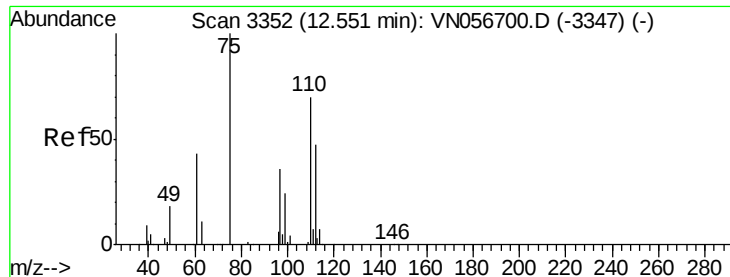


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

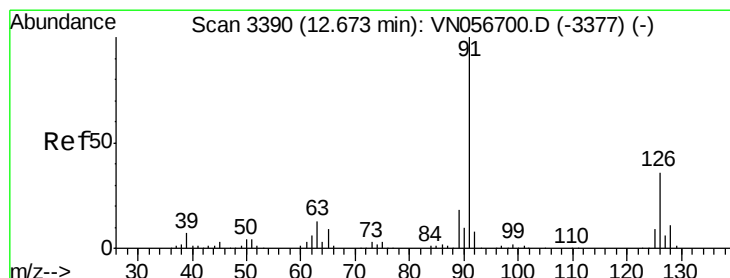
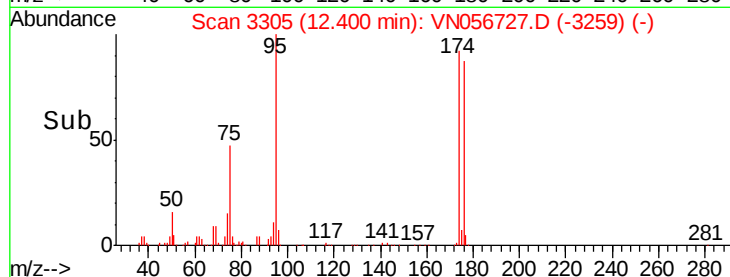
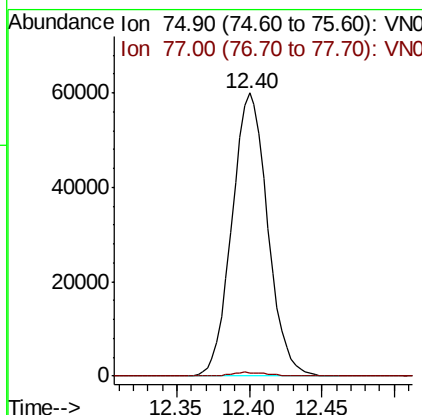
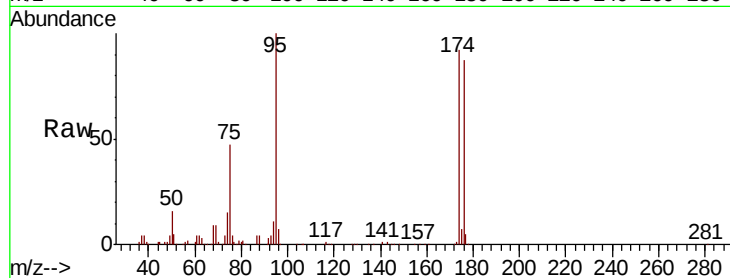




#76
 1,2,3-Trichloropropane
 Concen: 24.022 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN056727.D
 Acq: 15 Jul 2019 21:51

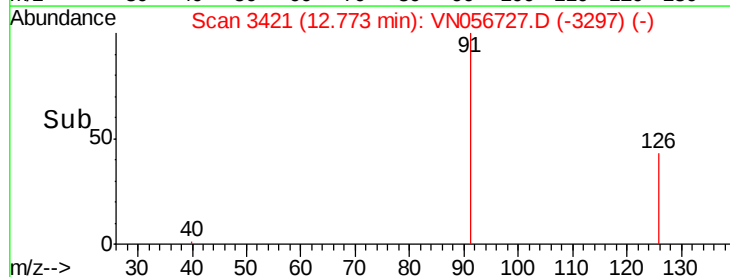
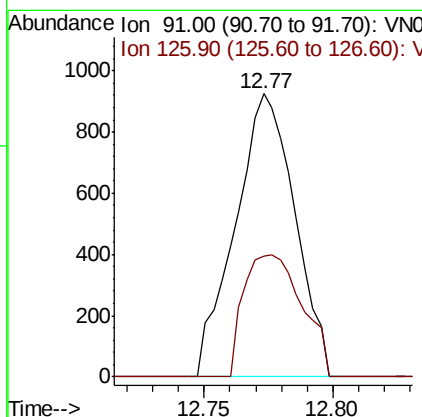
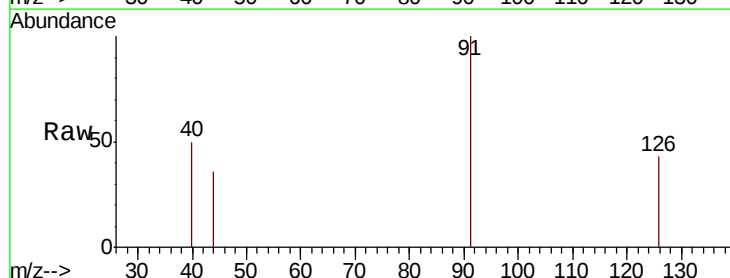
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBL02

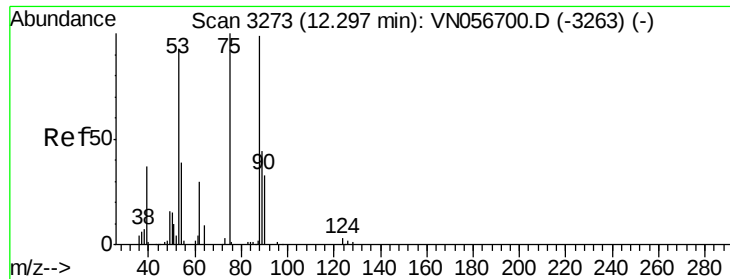
Tot Ion: 75 Resp: 102285
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.77 min Scan# 3421
 Delta R.T. 0.10 min
 Lab File: VN056727.D
 Acq: 15 Jul 2019 21:51

Tgt Ion: 91 Resp: 1489
 Ion Ratio Lower Upper
 91 100
 126 42.4 17.9 53.7





#81

trans-1,4-Dichloro-2-butene

Concen: 74.188 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBL02

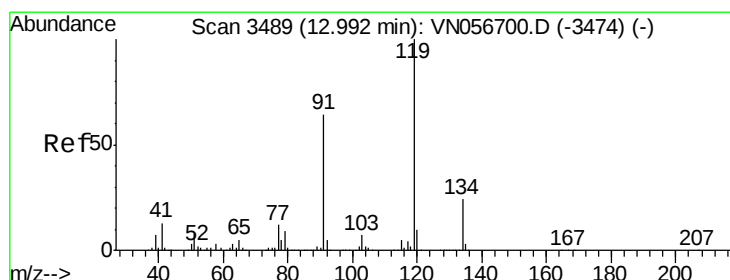
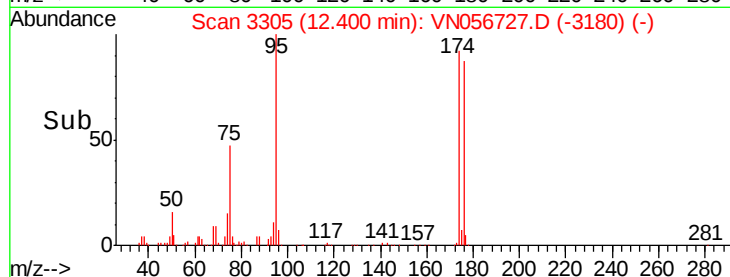
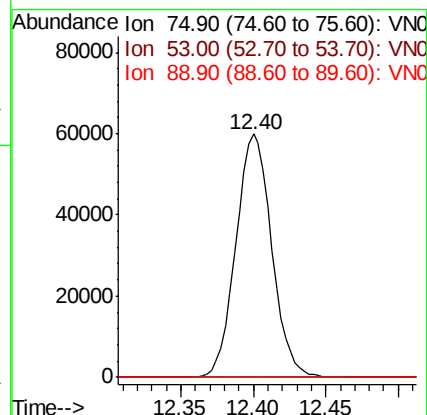
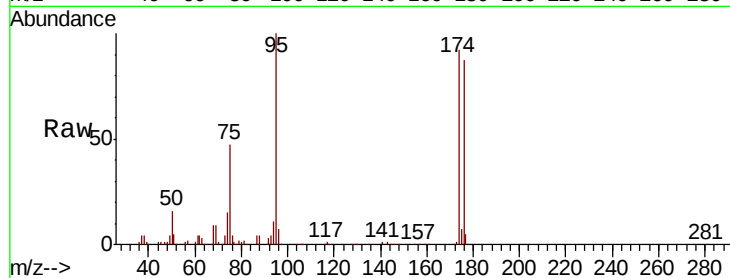
Tot Ion: 75 Resp: 102285

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

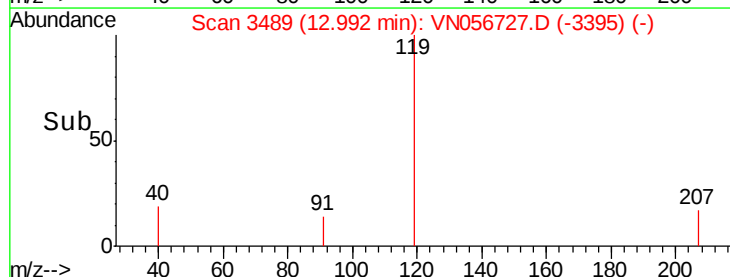
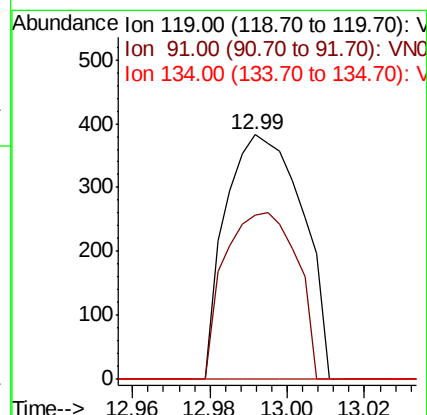
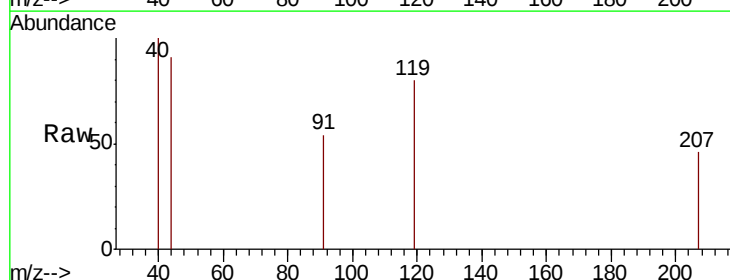
Tgt Ion: 119 Resp: 527

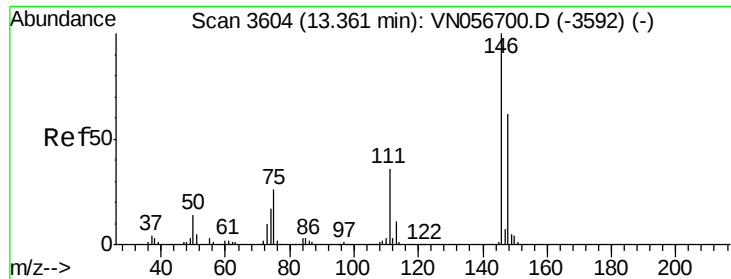
Ion Ratio Lower Upper

119 100

91 63.9 31.8 95.4

134 0.0 13.0 38.9#

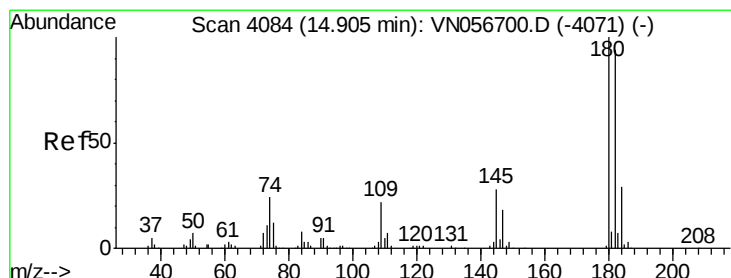
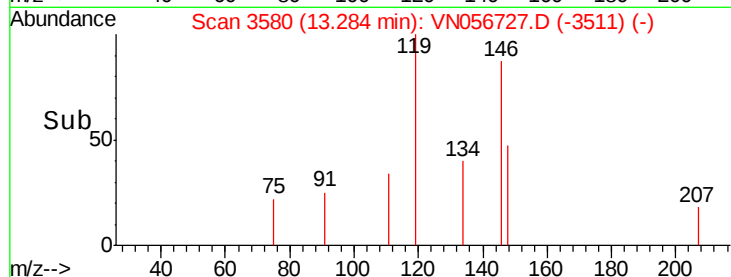
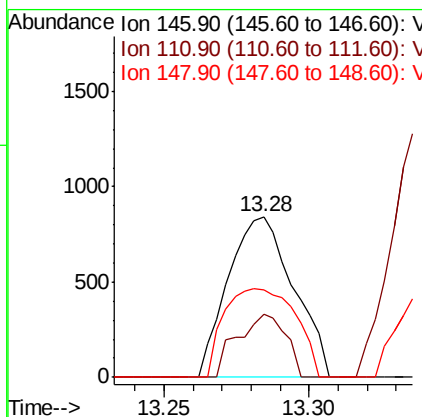
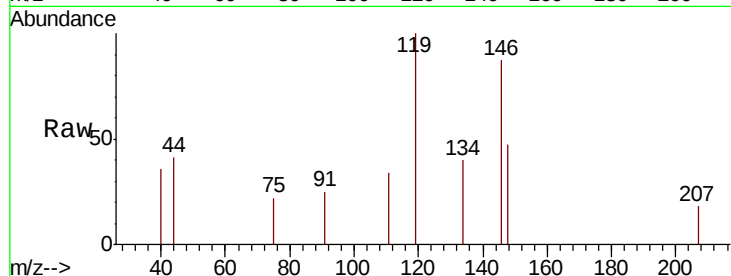




#88
 1,4-Dichlorobenzene
 Concen: 0.202 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN056727.D
 Acq: 15 Jul 2019 21:51

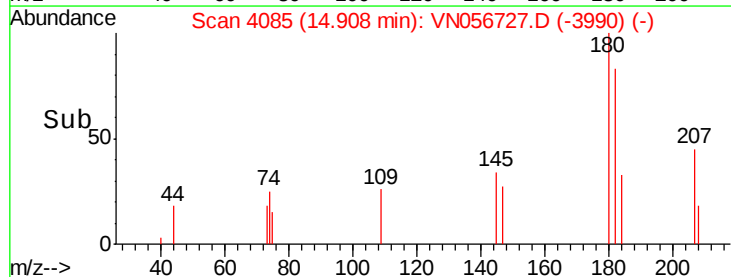
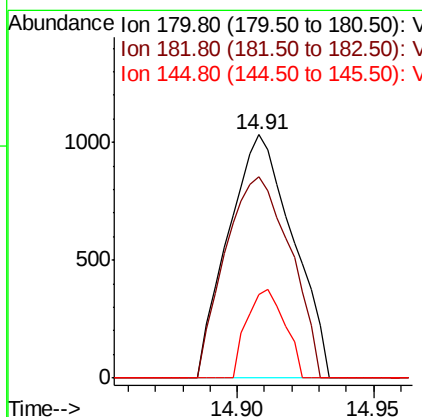
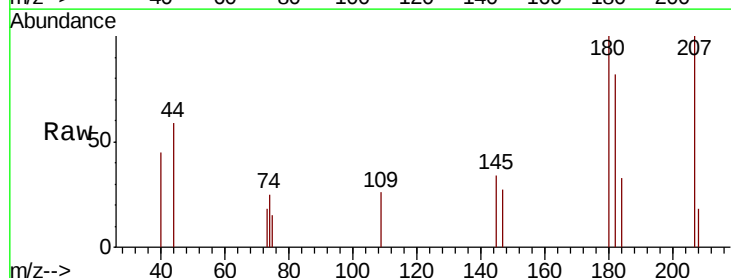
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBL02

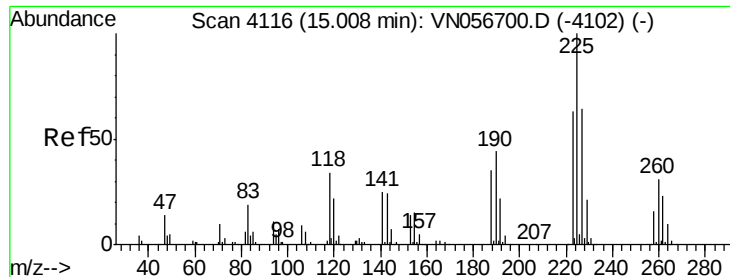
Tot Ion:146 Resp: 1319
 Ion Ratio Lower Upper
 146 100
 111 29.0 18.6 55.8
 148 59.9 31.9 95.7



#93
 1,2,4-Trichlorobenzene
 Concen: 4.105 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056727.D
 Acq: 15 Jul 2019 21:51

Tgt Ion:180 Resp: 1696
 Ion Ratio Lower Upper
 180 100
 182 83.7 47.2 141.6
 145 21.3 14.2 42.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.00 min Scan# 4114

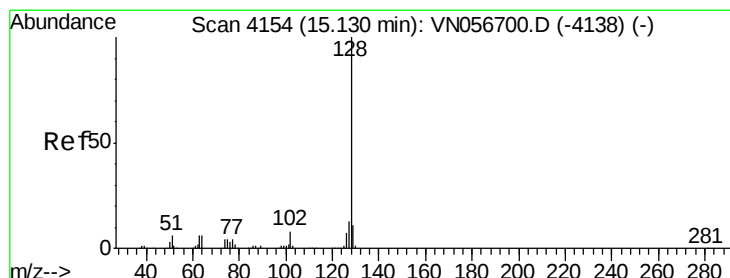
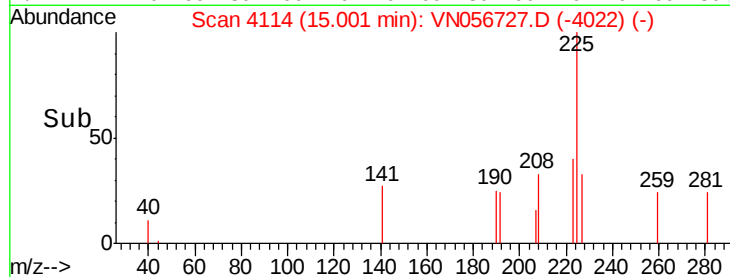
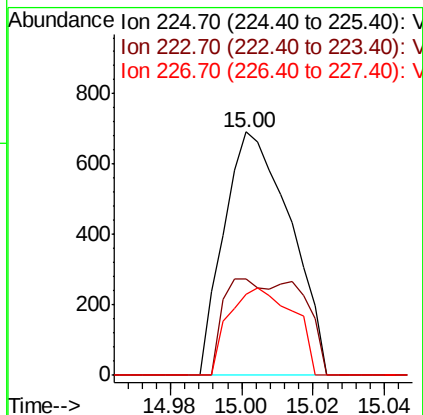
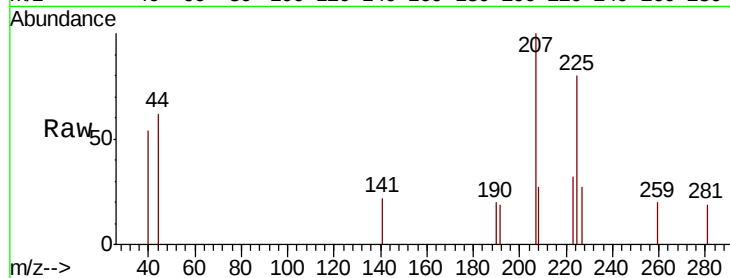
Delta R.T. -0.01 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

Instrument :
MSVOA_N
ClientSampled :
VN0715WBL02

Tot Ion:	225	Resp:	888
Ion	Ratio	Lower	Upper
225	100		
223	27.3	31.5	94.5#
227	34.7	32.0	96.2



#95

Naphthalene

Concen: 4.896 ug/l

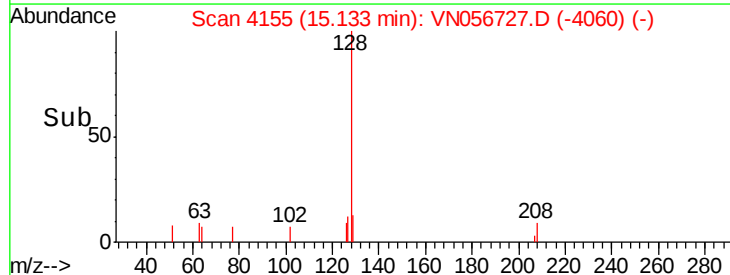
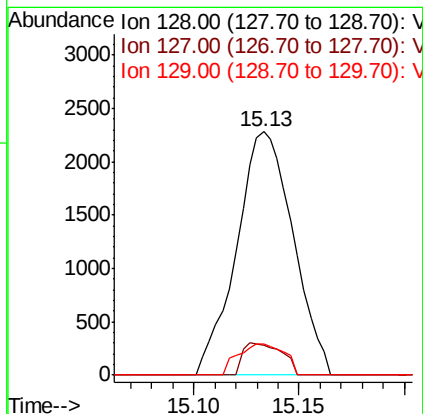
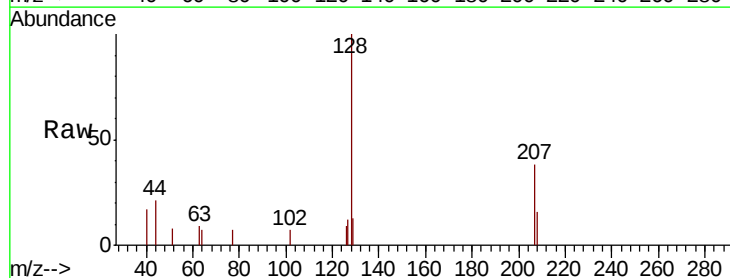
RT: 15.13 min Scan# 4155

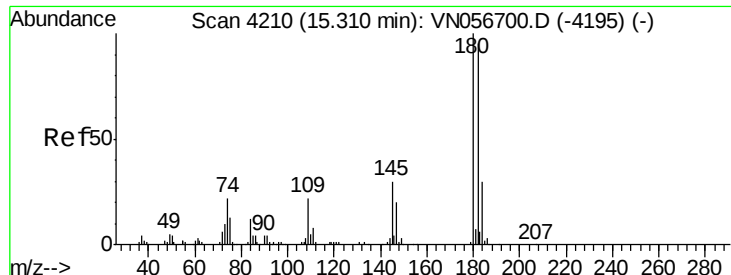
Delta R.T. 0.00 min

Lab File: VN056727.D

Acq: 15 Jul 2019 21:51

Tgt Ion:	128	Resp:	4249
Ion	Ratio	Lower	Upper
128	100		
127	9.0	10.3	15.5#
129	10.5	8.7	13.1

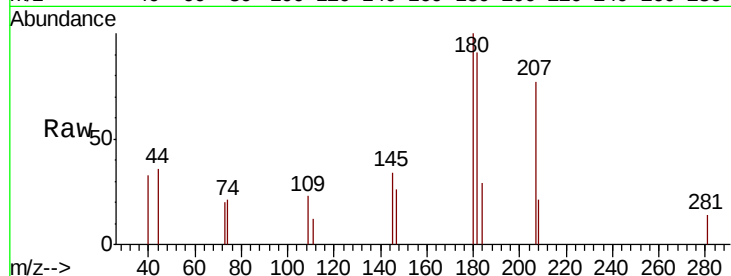




#96
 1,2,3-Trichlorobenzene
 Concen: 3.827 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN056727.D
 Acq: 15 Jul 2019 21:51

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	107.8	47.1	141.3
145	32.6	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

