

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060419\
 Data File : VN055985.D
 Acq On : 4 Jun 2019 12:44
 Operator : JC/SP
 Sample : K3104-10
 Misc : 5.36g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR-251-688

Quant Time: Jun 05 01:13:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

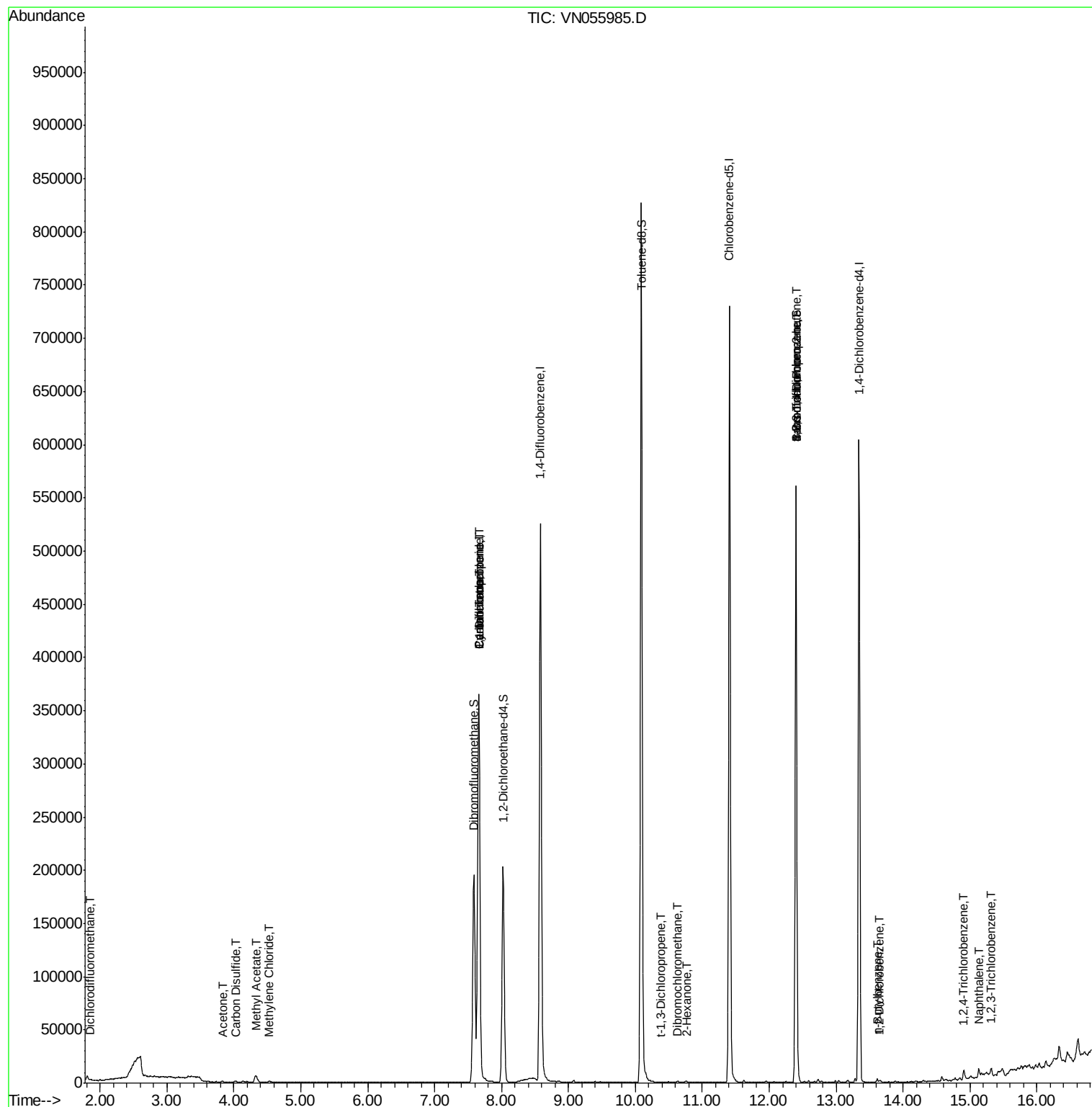
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	347476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	524086	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	467359	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	184837	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	170018	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
35) Dibromofluoromethane	7.59	113	148084	46.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.10%	
50) Toluene-d8	10.09	98	616140	49.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.60%	
62) 4-Bromofluorobenzene	12.40	95	199044	47.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.60%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	107	0.383	ug/l #	42
16) Acetone	3.83	43	1016	0.616	ug/l #	41
17) Carbon Disulfide	4.03	76	1550	0.222	ug/l #	74
18) Methyl Acetate	4.33	43	13456	3.615	ug/l #	78
20) Methylene Chloride	4.53	84	843	0.248	ug/l #	72
31) Cyclohexane	7.66	56	5452	0.996	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	20863	4.630	ug/l #	47
38) Carbon Tetrachloride	7.66	117	28958	6.970	ug/l #	15
53) t-1,3-Dichloropropene	10.38	75	96	2.417	ug/l #	46
59) 2-Hexanone	10.76	43	1334	0.453	ug/l	84
60) Dibromochloromethane	10.63	129	272	2.521	ug/l #	11
71) Bromoform	12.41	173	1299	3.197	ug/l #	1
73) Isopropylbenzene	12.25	105	1279	Below Cal		77
76) 1,2,3-Trichloropropane	12.40	75	88393	25.990	ug/l #	100
79) 2-Chlorotoluene	12.68	91	785	Below Cal		95
81) trans-1,4-Dichloro-2-buten	12.40	75	88393	86.551	ug/l #	15
83) tert-Butylbenzene	12.99	119	941	Below Cal	#	72
89) n-Butylbenzene	13.62	91	2348	0.256	ug/l	88
91) 1,2-Dichlorobenzene	13.66	146	1241	0.201	ug/l	90
93) 1,2,4-Trichlorobenzene	14.91	180	3094	5.100	ug/l	85
94) Hexachlorobutadiene	15.01	225	758	Below Cal		76
95) Naphthalene	15.13	128	8059	4.693	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	3893	4.084	ug/l	96

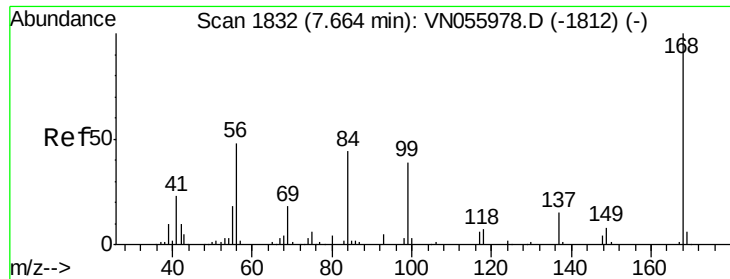
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VN055985.D

Acq: 4 Jun 2019 12:44

Instrument :

MSVOA_N

ClientSampleId :

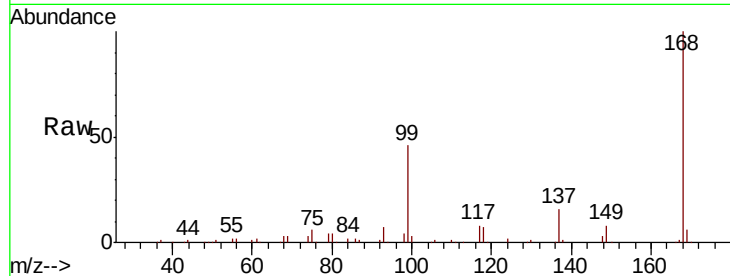
RBR-251-688

Tot Ion:168 Resp: 347476

Ion Ratio Lower Upper

168 100

99 45.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

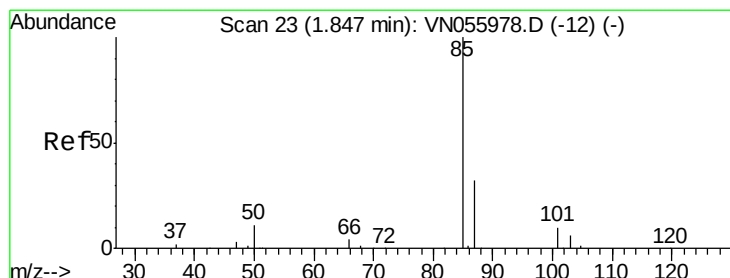
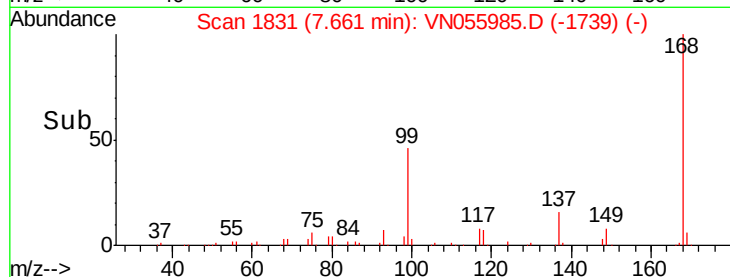
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.383 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055985.D

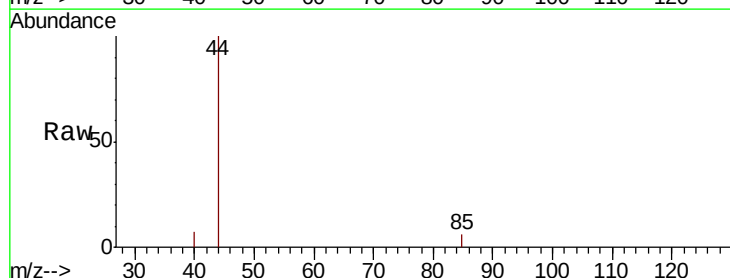
Acq: 4 Jun 2019 12:44

Tgt Ion: 85 Resp: 107

Ion Ratio Lower Upper

85 100

87 0.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

200

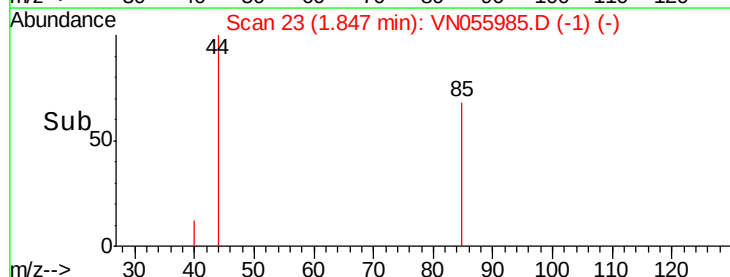
150

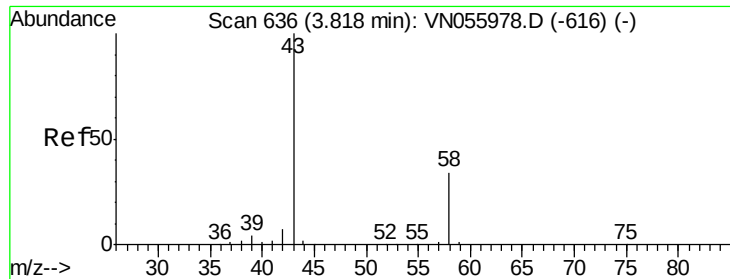
100

50

0

Time-->

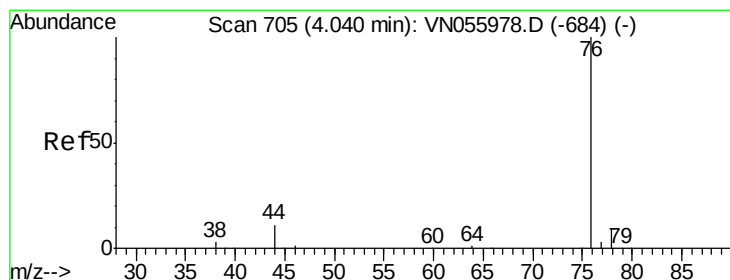
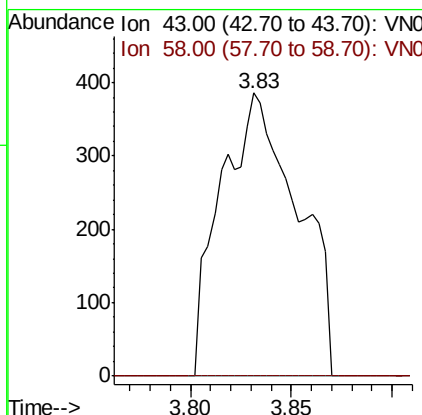
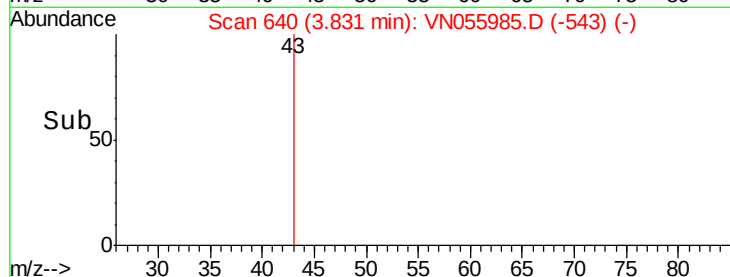
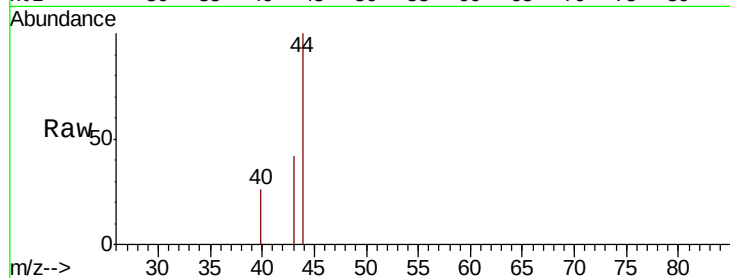




#16
 Acetone
 Concen: 0.616 ug/l
 RT: 3.83 min Scan# 640
 Delta R.T. 0.01 min
 Lab File: VN055985.D
 Acq: 4 Jun 2019 12:44

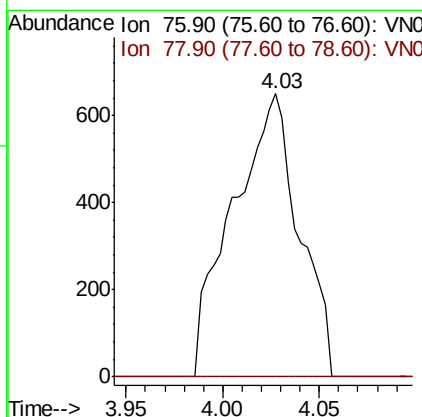
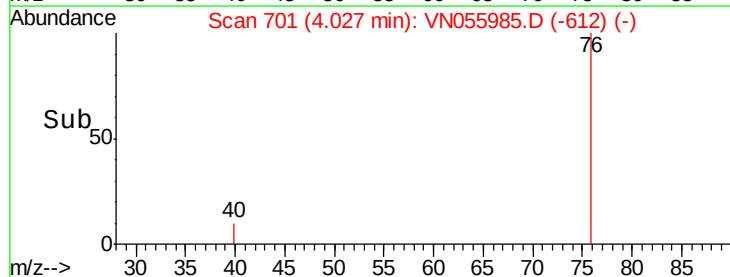
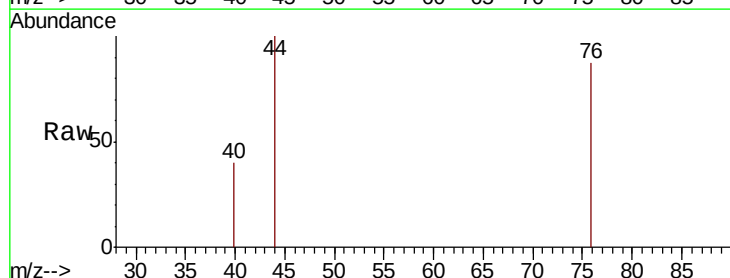
Instrument :
 MSVOA_N
 ClientSampled :
 RBR-251-688

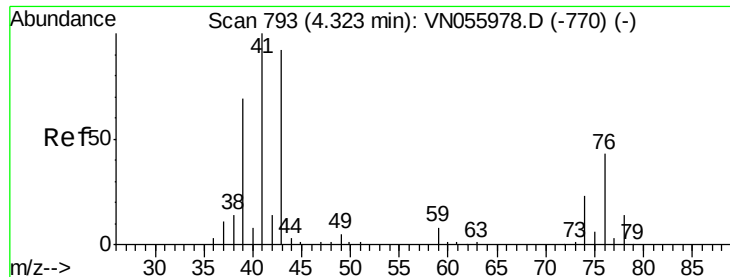
Tot Ion: 43 Resp: 1016
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.6 39.8#



#17
 Carbon Disulfide
 Concen: 0.222 ug/l
 RT: 4.03 min Scan# 701
 Delta R.T. -0.01 min
 Lab File: VN055985.D
 Acq: 4 Jun 2019 12:44

Tgt Ion: 76 Resp: 1550
 Ion Ratio Lower Upper
 76 100
 78 0.0 7.4 11.2#

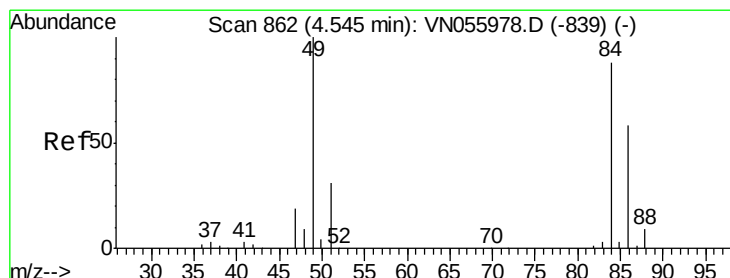
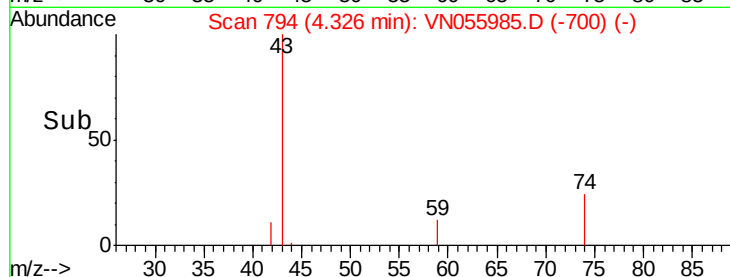
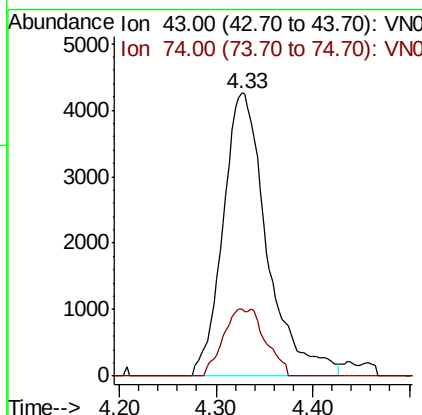
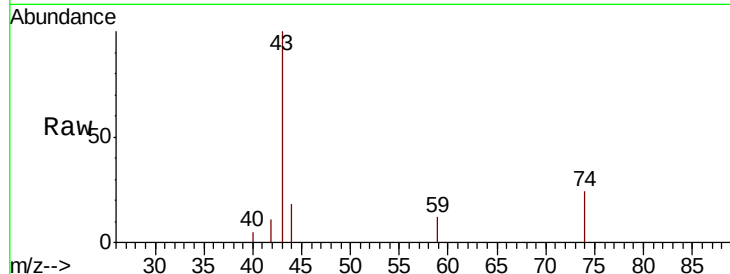




#18
Methyl Acetate
Concen: 3.615 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

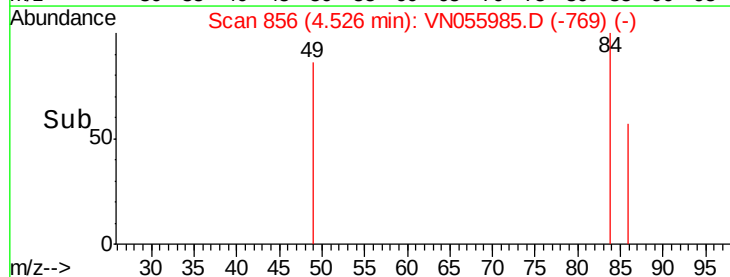
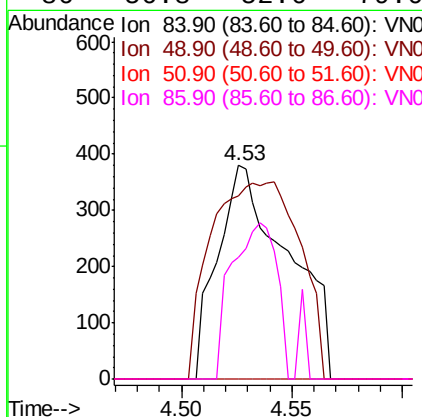
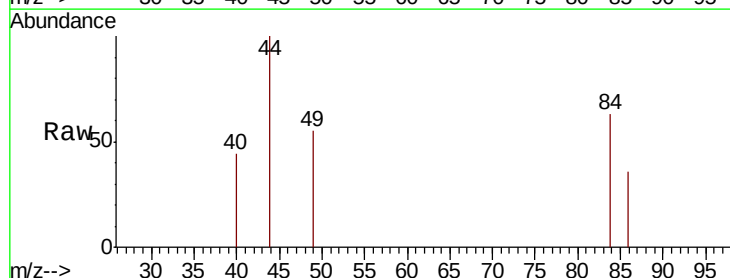
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MSVOA_N
ClientSampleId :
RBR-251-688

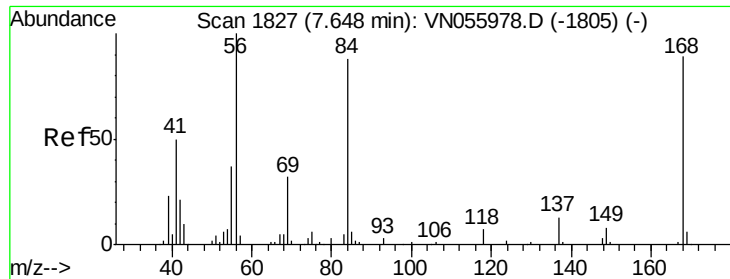
Tot Ion: 43 Resp: 13456
Ion Ratio Lower Upper
43 100
74 13.3 19.3 28.9#



#20
Methylene Chloride
Concen: 0.248 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.02 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

Tgt Ion: 84 Resp: 843
Ion Ratio Lower Upper
84 100
49 86.1 93.5 140.3#
51 0.0 28.6 43.0#
86 56.8 52.6 79.0

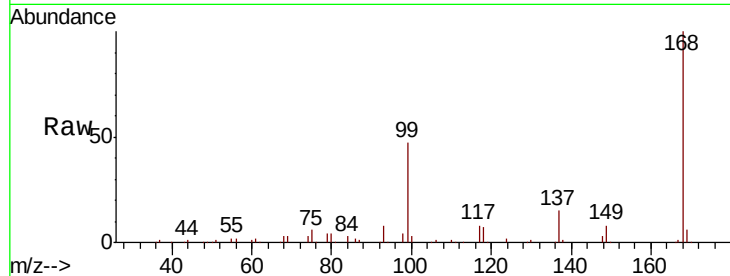




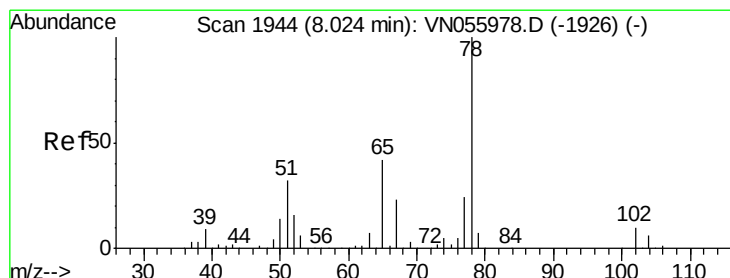
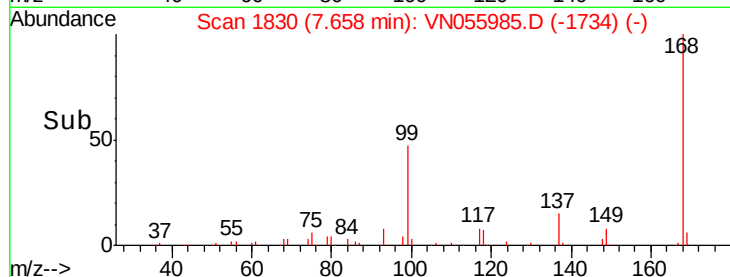
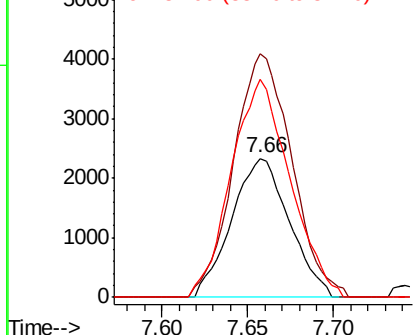
#31
Cyclohexane
Concen: 0.996 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

Instrument :
MSVOA_N
ClientSampled :
RBR-251-688

Tot Ion: 56 Resp: 5452
Ion Ratio Lower Upper
56 100
69 175.6 25.6 38.4#
84 156.8 67.4 101.0#

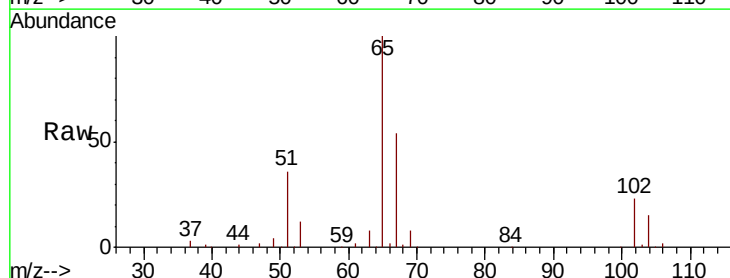


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

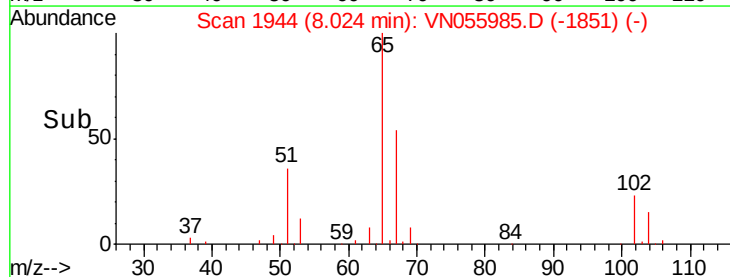
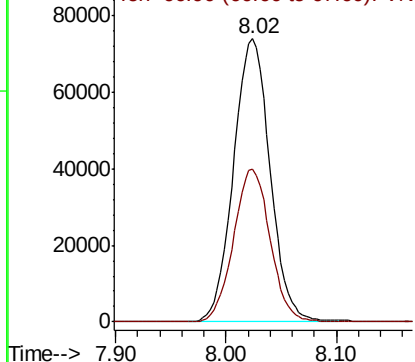


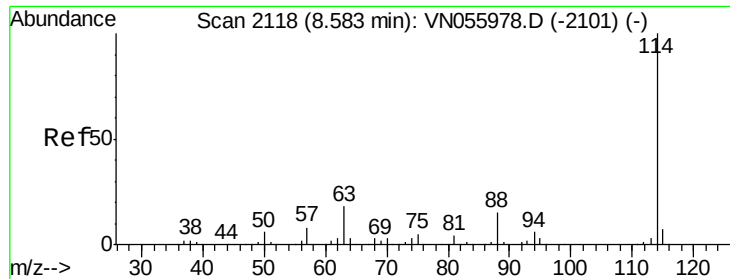
#33
1,2-Dichloroethane-d4
Concen: 49.279 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

Tgt Ion: 65 Resp: 170018
Ion Ratio Lower Upper
65 100
67 54.0 0.0 109.2



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

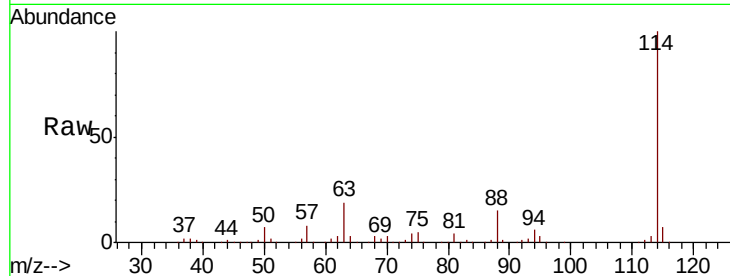




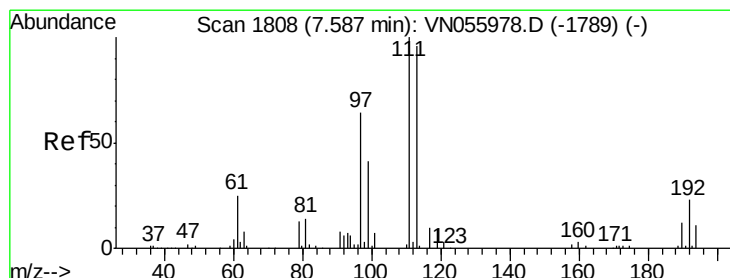
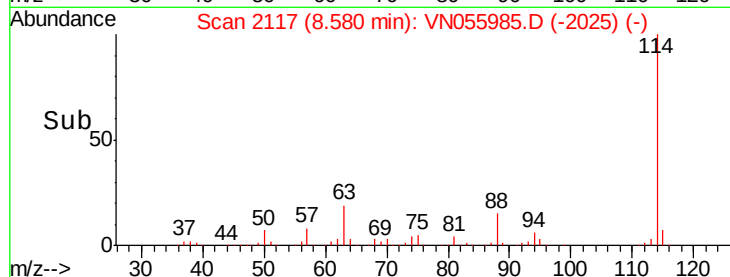
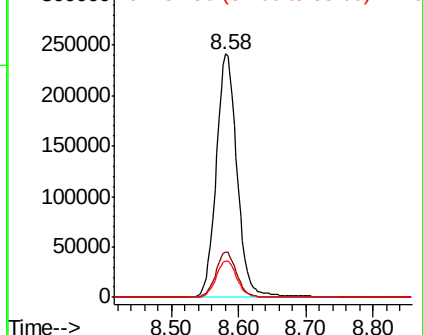
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2117
Delta R.T. -0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

Instrument :
MSVOA_N
ClientSampleId :
RBR-251-688

Tot Ion:114 Resp: 524086
Ion Ratio Lower Upper
114 100
63 18.7 0.0 39.2
88 15.1 0.0 31.0

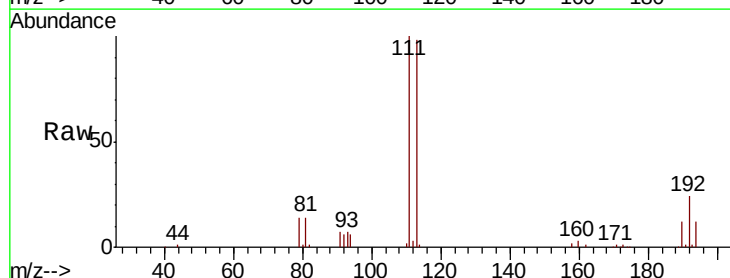


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

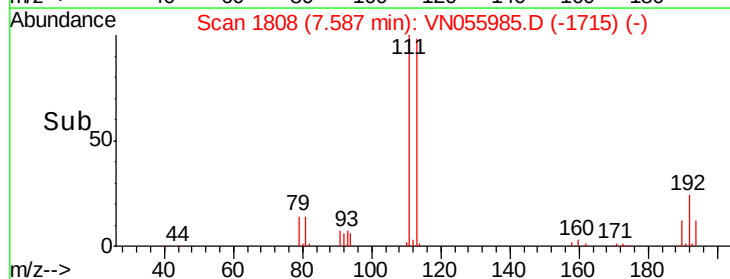
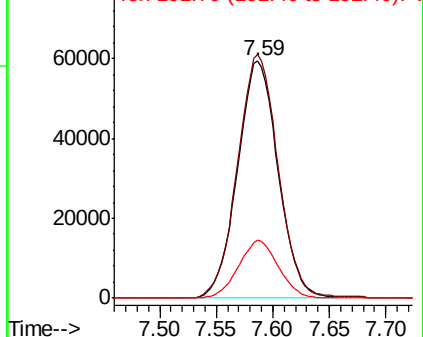


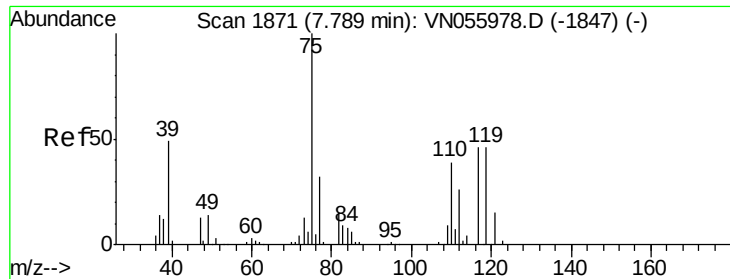
#35
Dibromofluoromethane
Concen: 46.054 ug/l
RT: 7.59 min Scan# 1808
Delta R.T. 0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

Tgt Ion:113 Resp: 148084
Ion Ratio Lower Upper
113 100
111 103.3 81.9 122.9
192 23.9 19.5 29.3



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

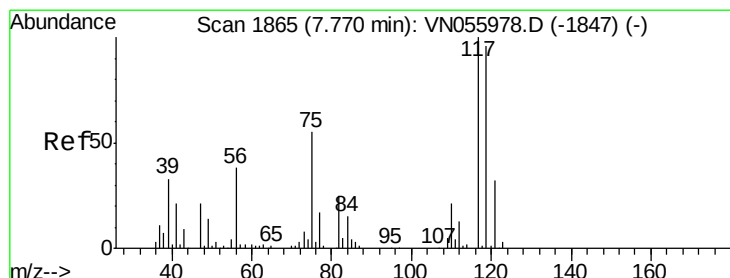
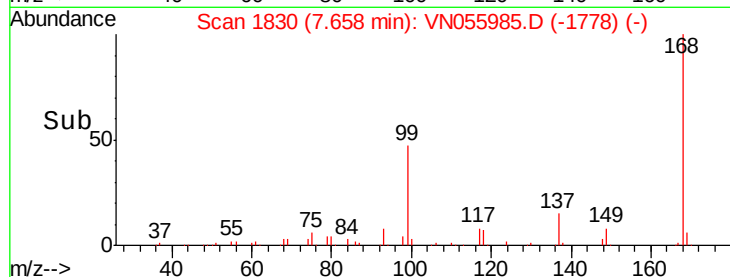
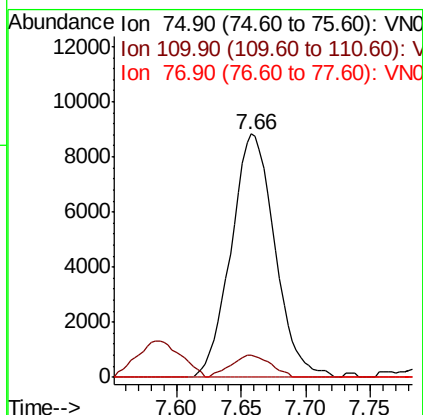
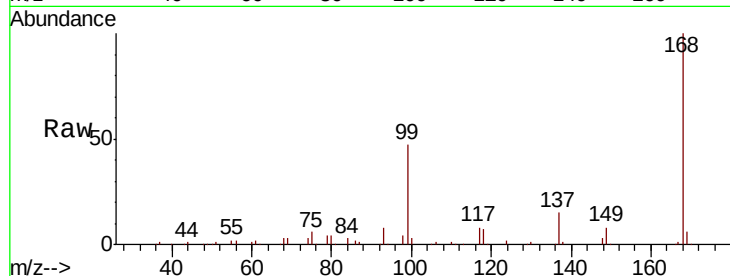




#36
 1,1-Dichloropropene
 Concen: 4.630 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN055985.D
 Acq: 4 Jun 2019 12:44

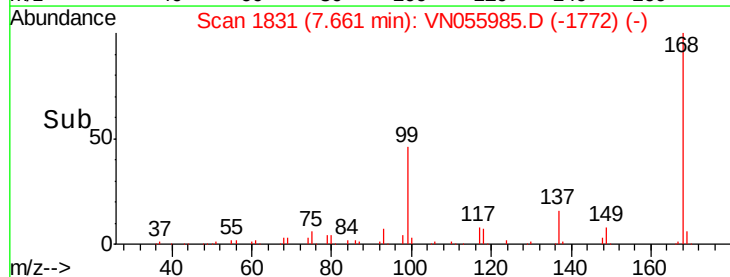
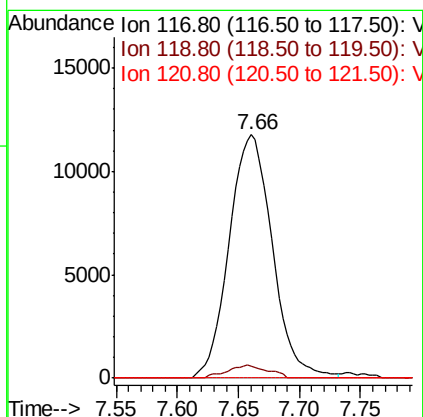
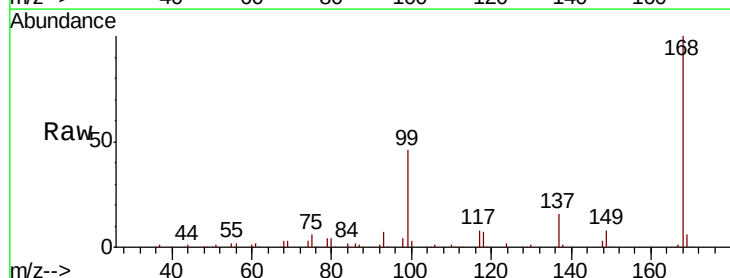
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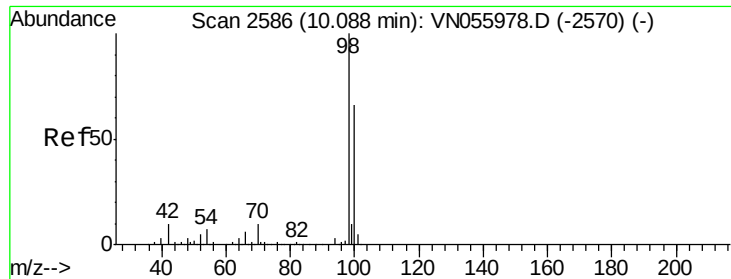
Tot Ion: 75 Resp: 20863
 Ion Ratio Lower Upper
 75 100
 110 8.2 19.0 57.0#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.970 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN055985.D
 Acq: 4 Jun 2019 12:44

Tgt Ion: 117 Resp: 28958
 Ion Ratio Lower Upper
 117 100
 119 4.9 79.0 118.6#
 121 0.0 24.7 37.1#

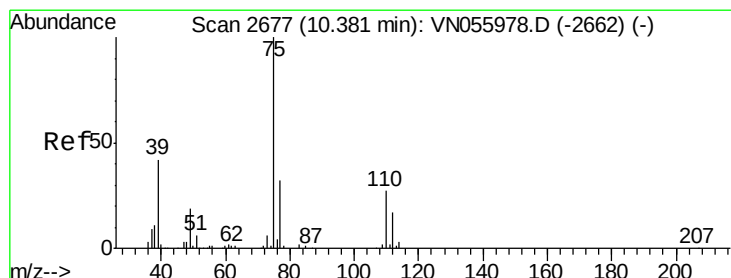
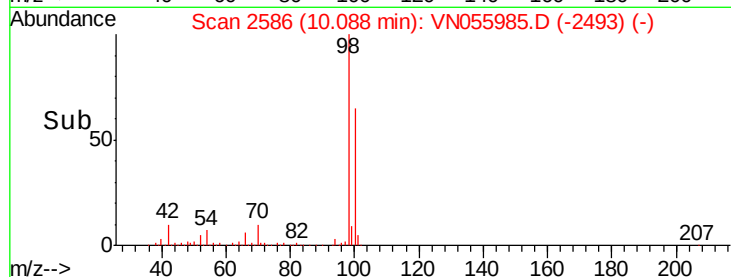
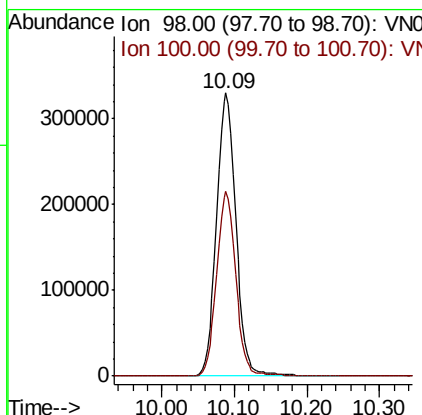
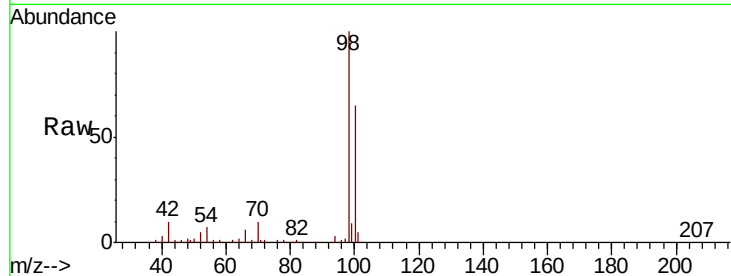




#50
Toluene-d8
Concen: 49.797 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

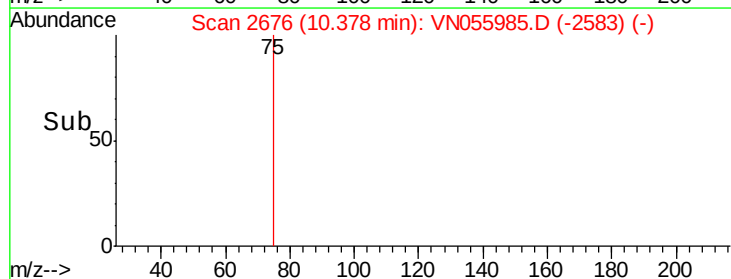
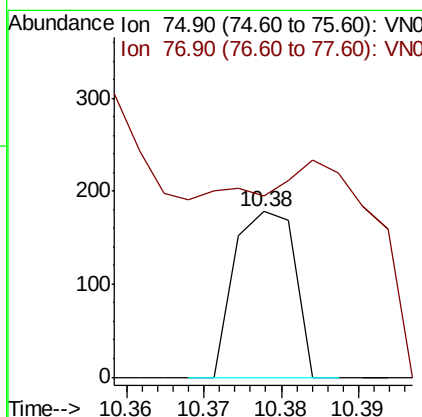
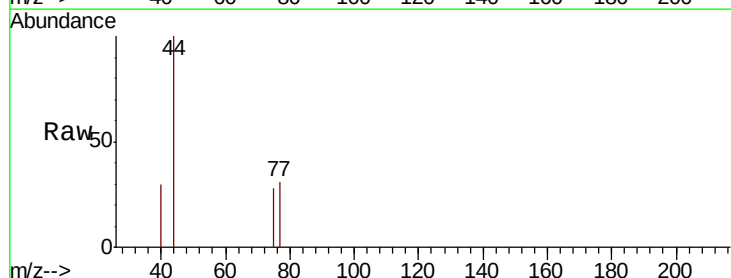
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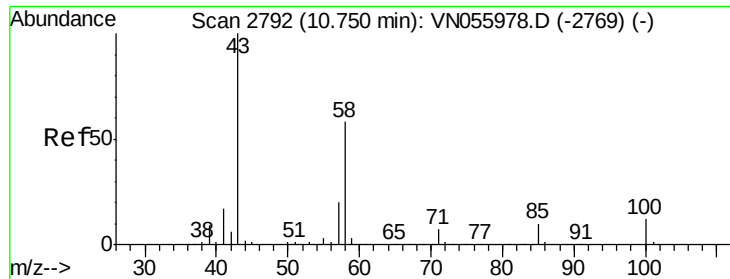
Tot Ion: 98 Resp: 616140
Ion Ratio Lower Upper
98 100
100 64.3 51.9 77.9



#53
t-1,3-Dichloropropene
Concen: 2.417 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

Tgt Ion: 75 Resp: 96
Ion Ratio Lower Upper
75 100
77 2.2 25.8 38.6#

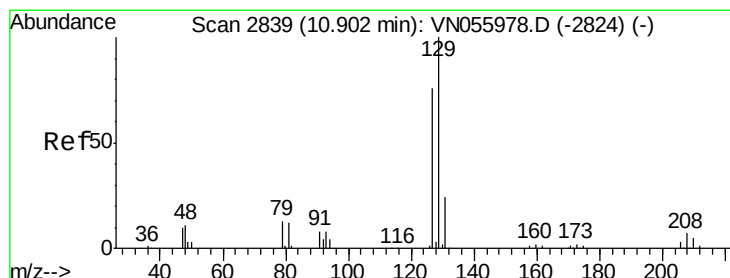
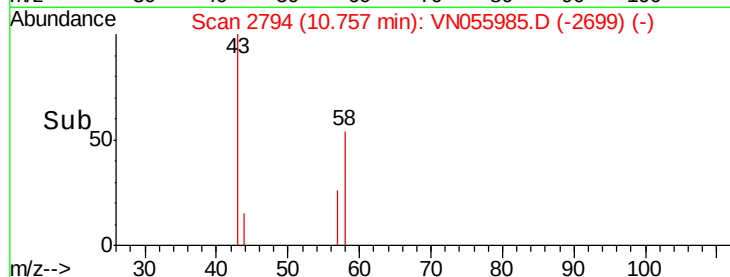
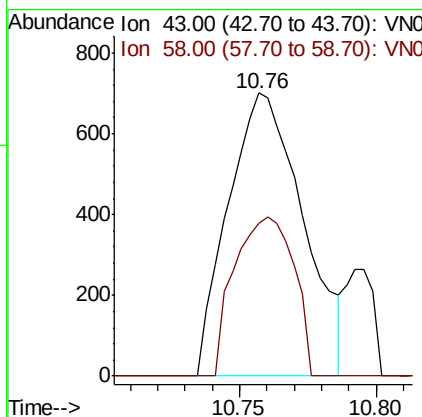
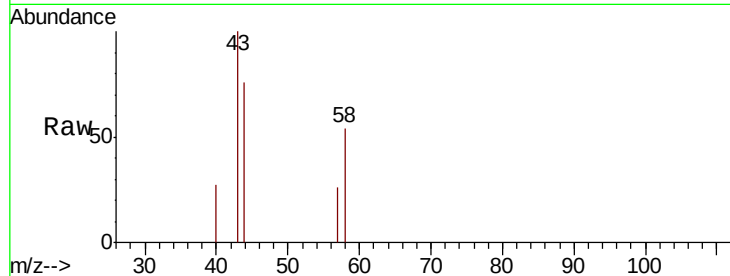




#59
2-Hexanone
Concen: 0.453 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

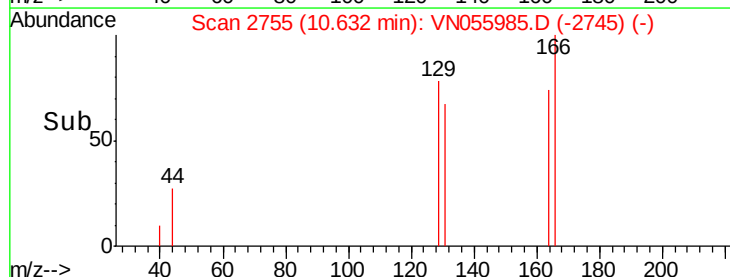
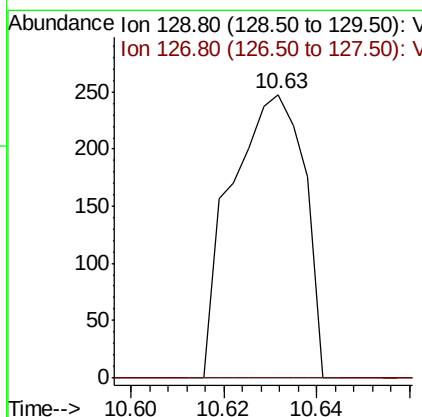
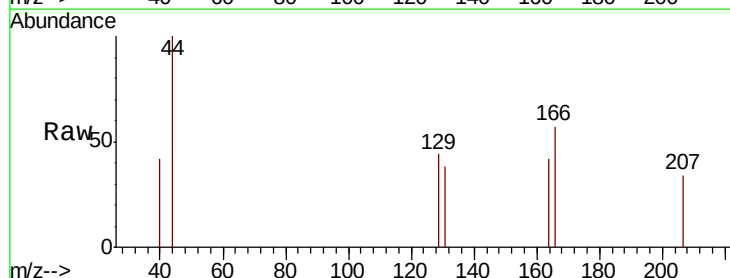
Instrument :
MSVOA_N
ClientSampleId :
RBR-251-688

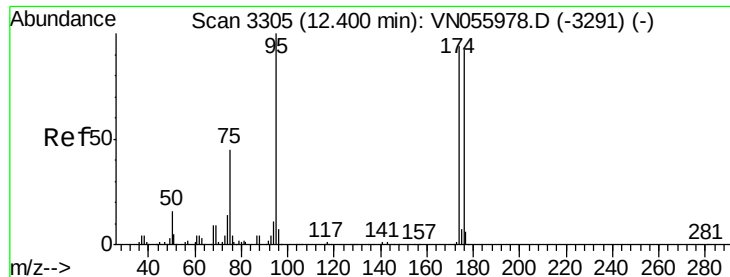
Tot Ion: 43 Resp: 1334
Ion Ratio Lower Upper
43 100
58 44.8 28.2 84.7



#60
Dibromochloromethane
Concen: 2.521 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.27 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

Tgt Ion: 129 Resp: 272
Ion Ratio Lower Upper
129 100
127 0.0 38.1 114.3#

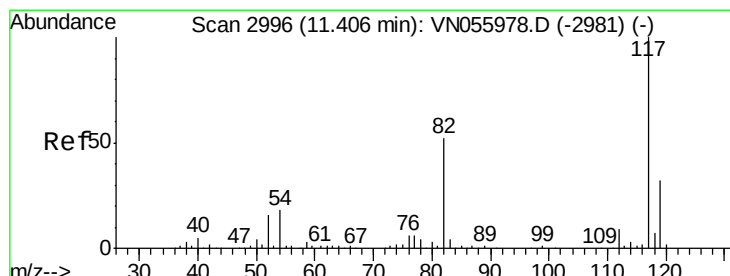
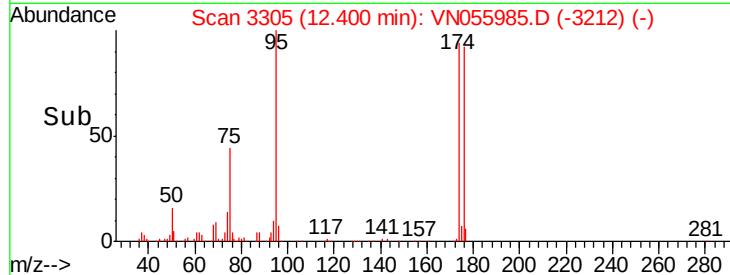
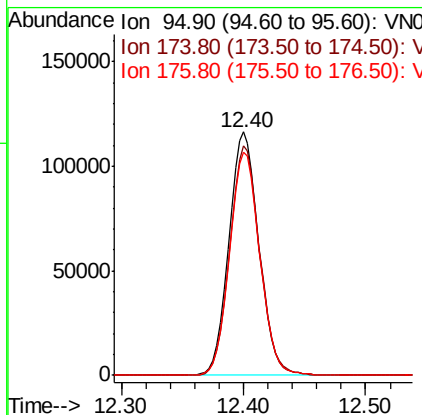
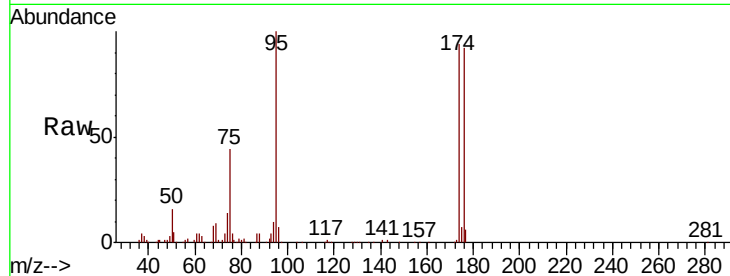




#62
4-Bromofluorobenzene
Concen: 47.304 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

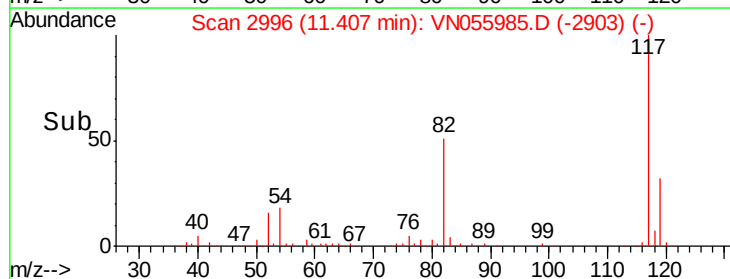
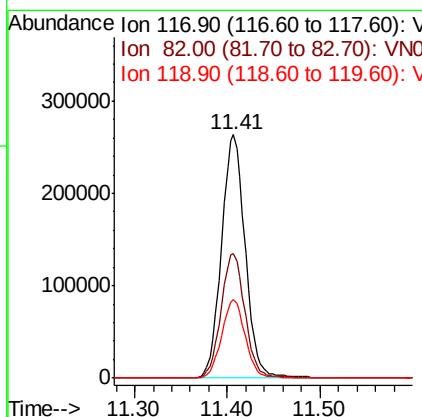
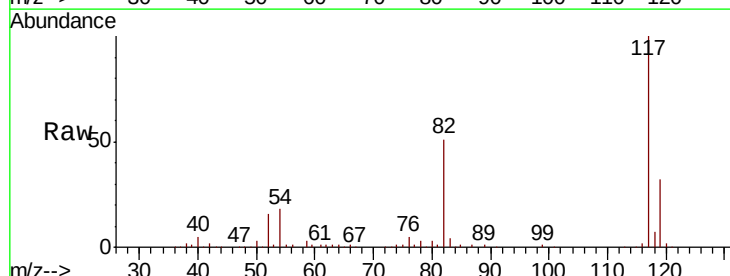
Instrument :
MSVOA_N
ClientSampleId :
RBR-251-688

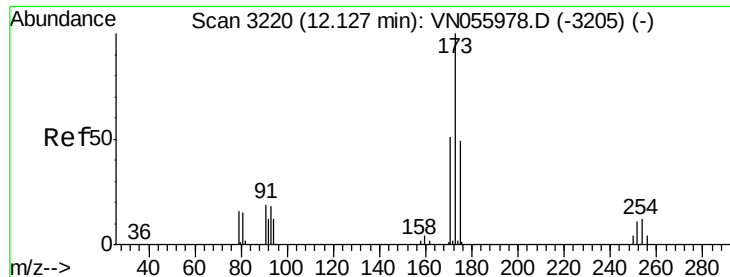
Tot Ion	95	Resp	199044
Ion Ratio	Lower	Upper	
95	100		
174	94.6	0.0	191.0
176	92.5	0.0	185.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

Tgt Ion	117	Resp	467359
Ion Ratio	Lower	Upper	
117	100		
82	51.2	41.8	62.8
119	32.3	25.4	38.0





#71

Bromoform

Concen: 3.197 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN055985.D

Acq: 4 Jun 2019 12:44

Instrument :

MSVOA_N

ClientSampleId :

RBR-251-688

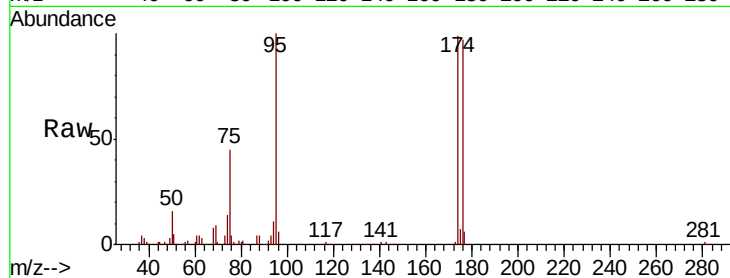
Tot Ion:173 Resp: 1299

Ion Ratio Lower Upper

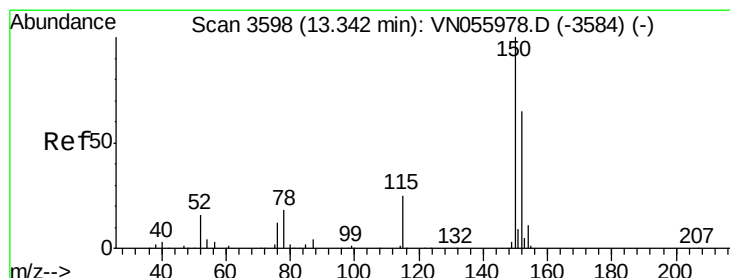
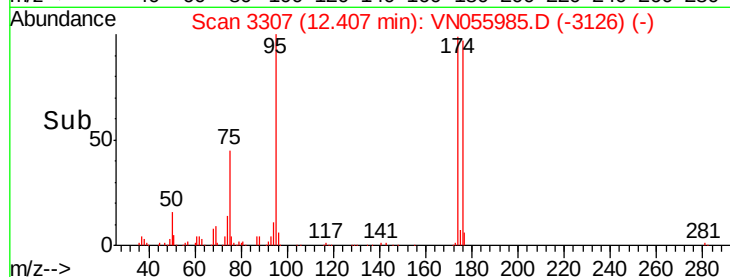
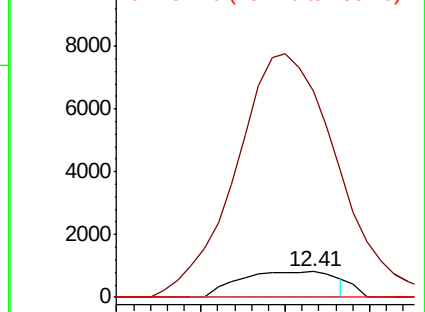
173 100

175 893.0 24.3 72.8#

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: VN055985.D

Acq: 4 Jun 2019 12:44

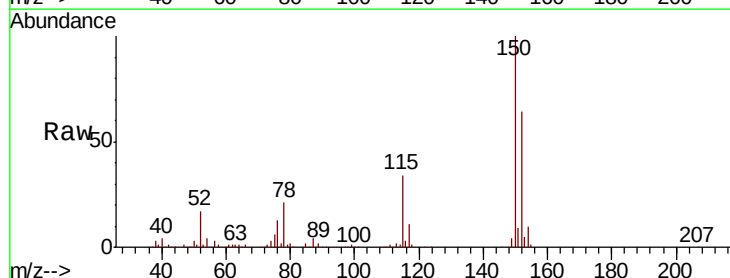
Tgt Ion:152 Resp: 184837

Ion Ratio Lower Upper

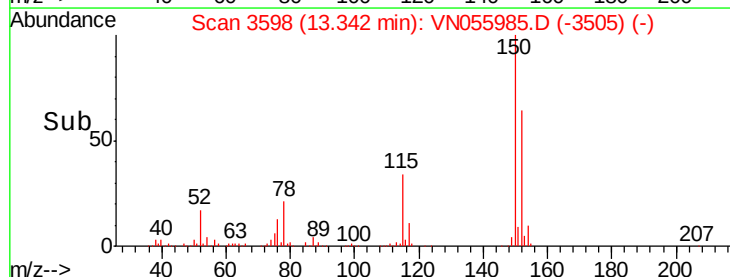
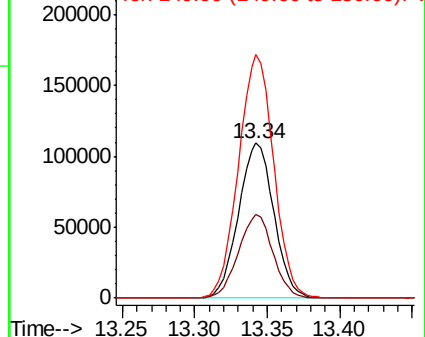
152 100

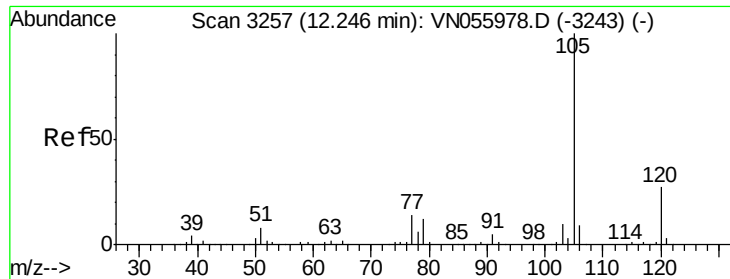
115 52.7 27.0 81.0

150 156.8 0.0 343.2



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055985.D

Acq: 4 Jun 2019 12:44

Instrument :

MSVOA_N

ClientSampleId :

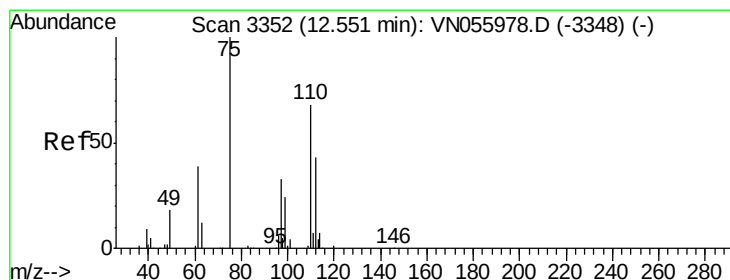
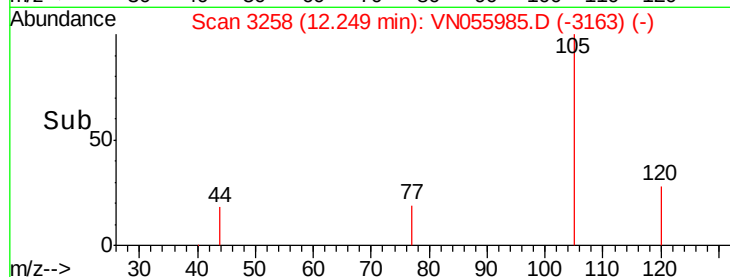
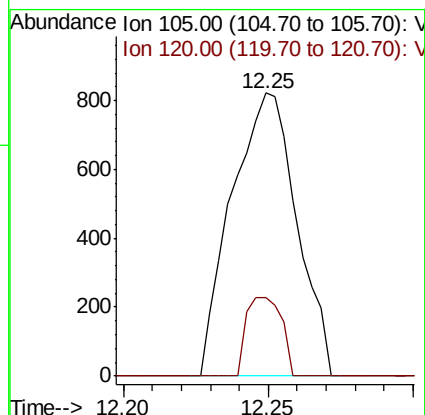
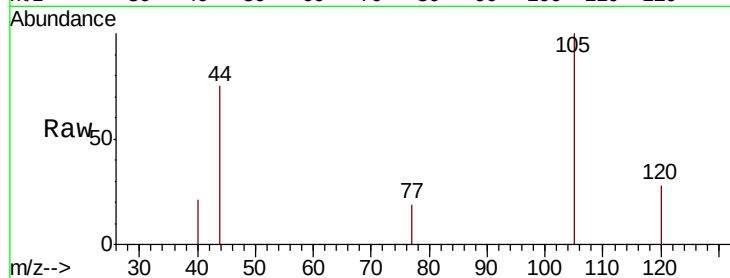
RBR-251-688

Tot Ion:105 Resp: 1279

Ion Ratio Lower Upper

105 100

120 15.2 13.6 40.7



#76

1,2,3-Trichloropropane

Concen: 25.990 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055985.D

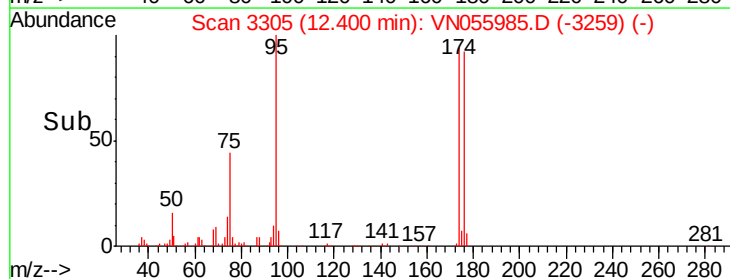
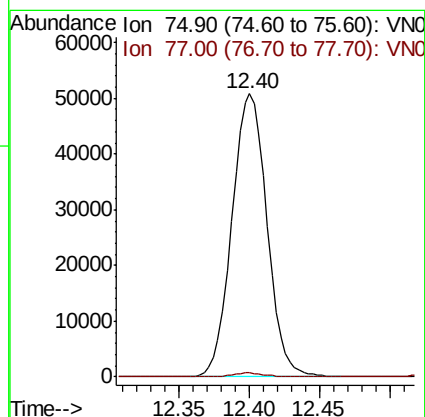
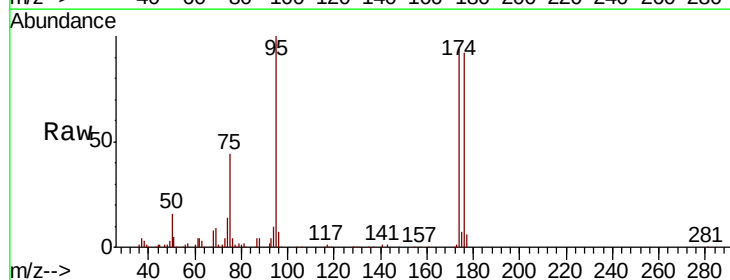
Acq: 4 Jun 2019 12:44

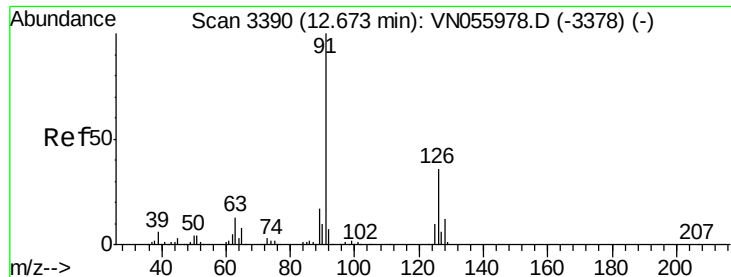
Tgt Ion: 75 Resp: 88393

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN055985.D

Acq: 4 Jun 2019 12:44

Instrument :

MSVOA_N

ClientSampled :

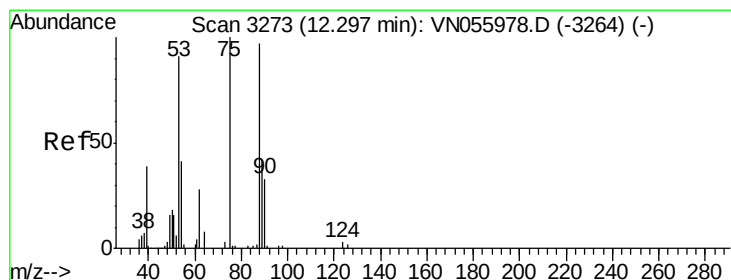
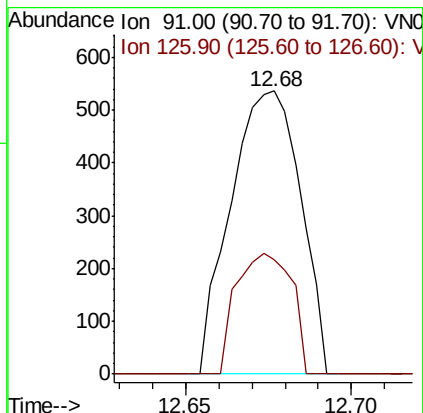
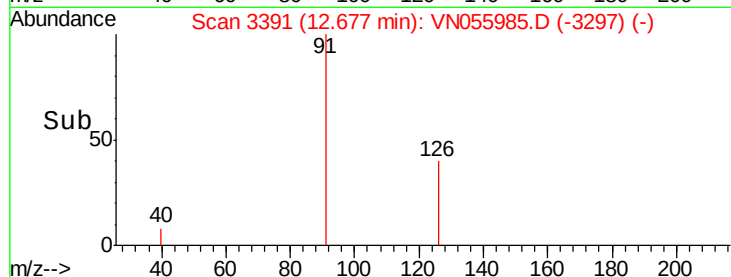
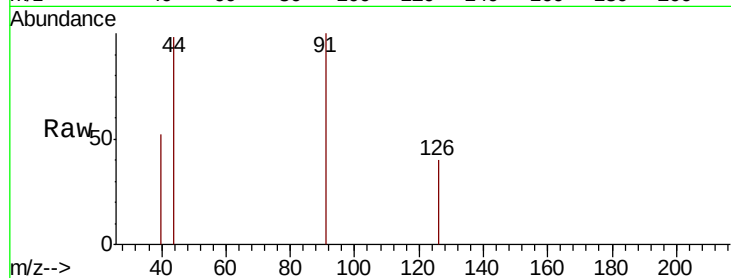
RBR-251-688

Tot Ion: 91 Resp: 785

Ion Ratio Lower Upper

91 100

126 33.6 18.1 54.4



#81

trans-1,4-Dichloro-2-butene

Concen: 86.551 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055985.D

Acq: 4 Jun 2019 12:44

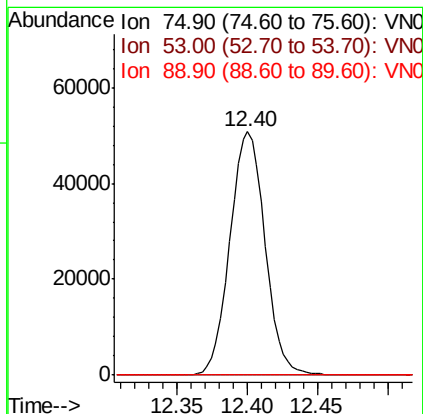
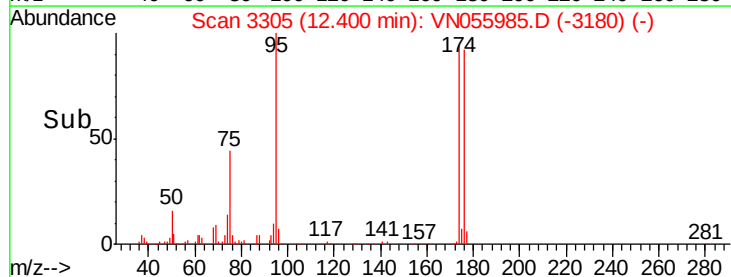
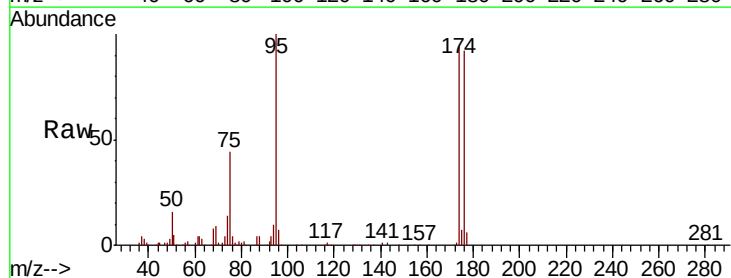
Tgt Ion: 75 Resp: 88393

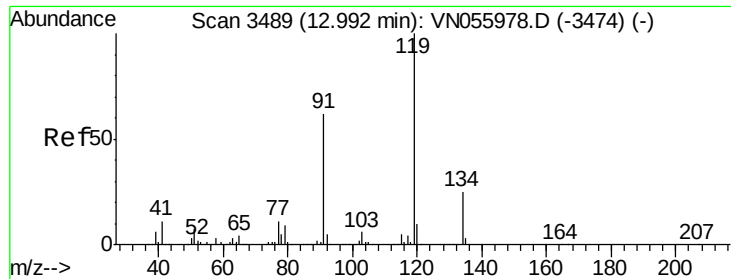
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

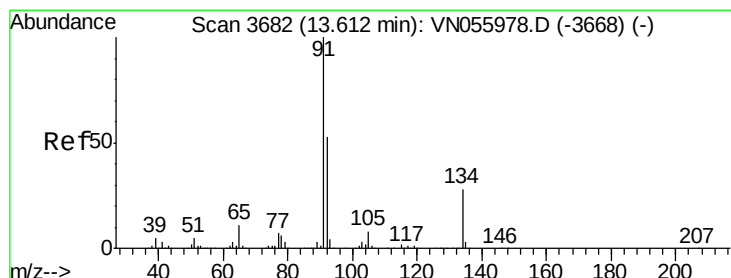
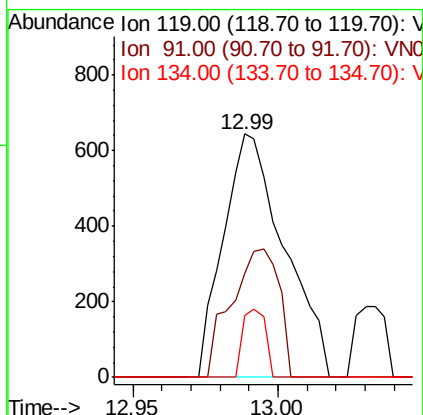
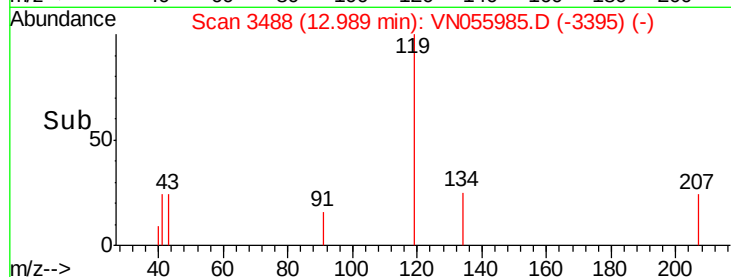
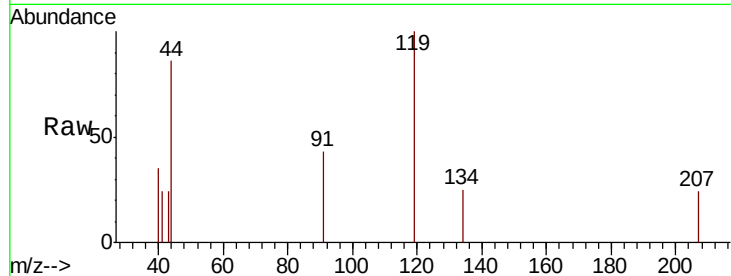




#83
tert-Butylbenzene
Concen: Below Cal
RT: 12.99 min Scan# 3488
Delta R.T. -0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

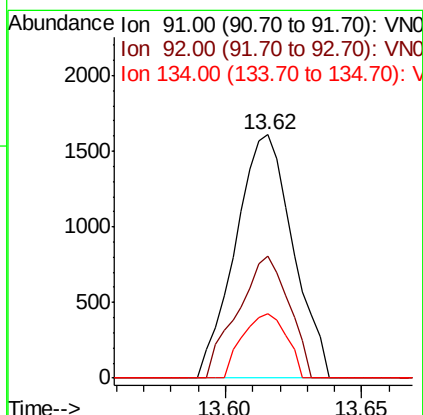
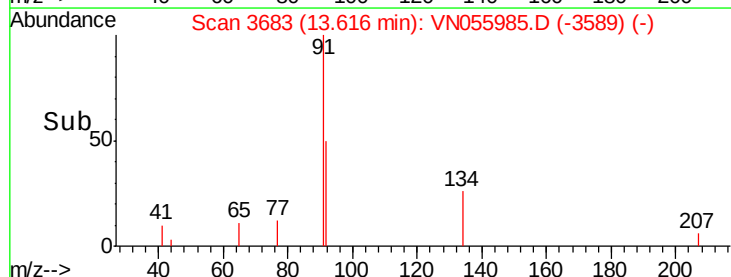
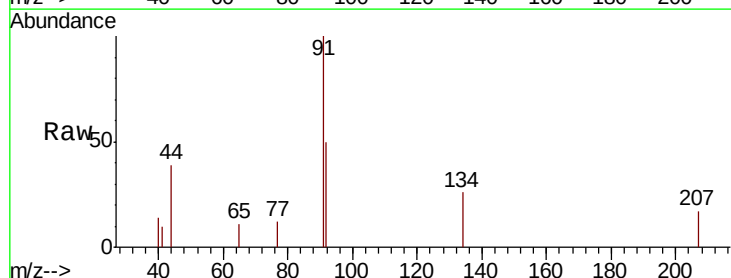
Instrument :
MSVOA_N
ClientSampled :
RBR-251-688

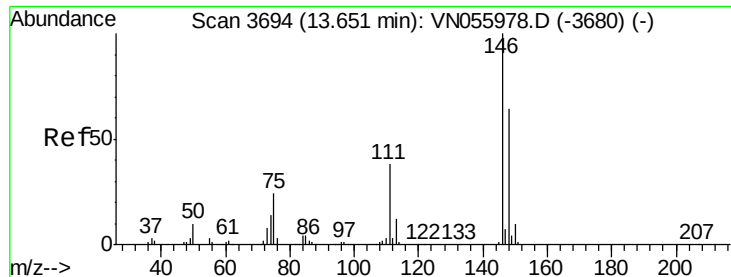
Tot Ion:119 Resp: 941
Ion Ratio Lower Upper
119 100
91 41.3 30.9 92.8
134 10.4 13.3 39.8#



#89
n-Butylbenzene
Concen: 0.256 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN055985.D
Acq: 4 Jun 2019 12:44

Tgt Ion: 91 Resp: 2348
Ion Ratio Lower Upper
91 100
92 44.7 26.4 79.0
134 20.3 13.9 41.7

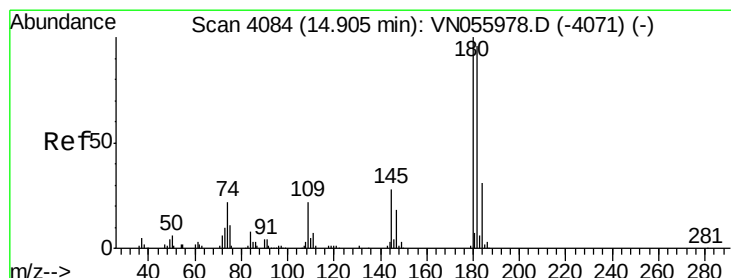
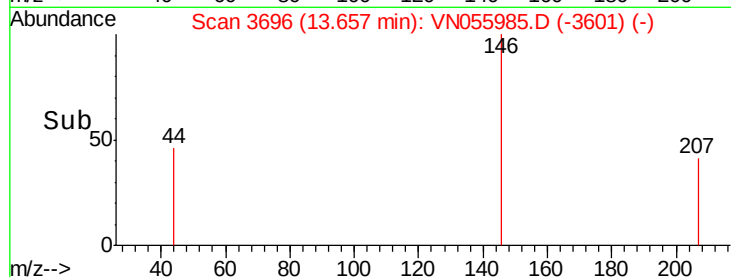
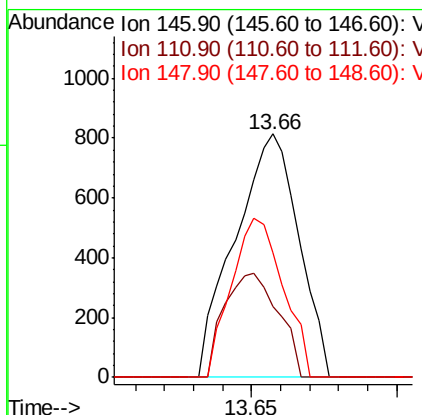
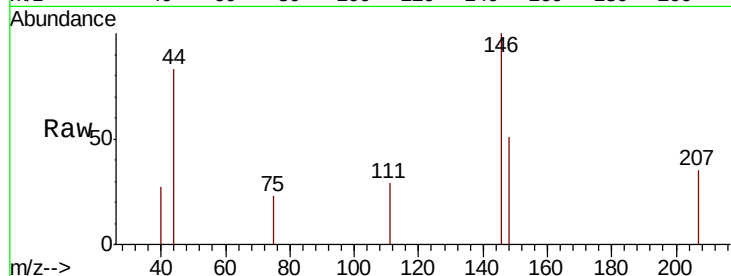




#91
 1,2-Dichlorobenzene
 Concen: 0.201 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.01 min
 Lab File: VN055985.D
 Acq: 4 Jun 2019 12:44

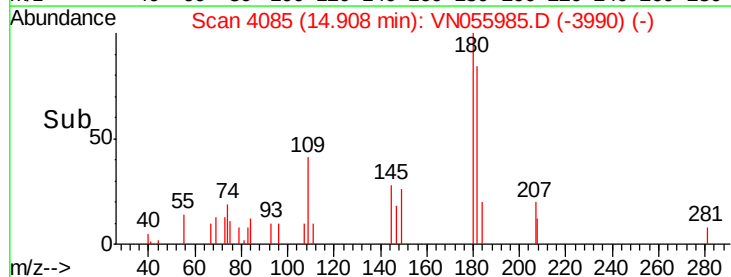
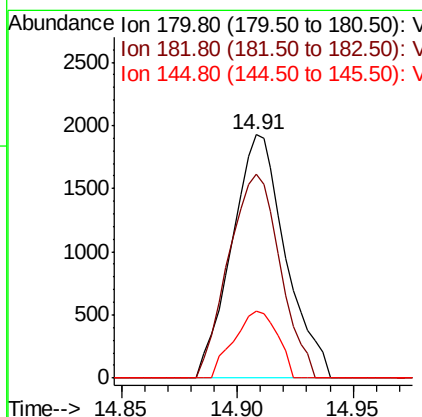
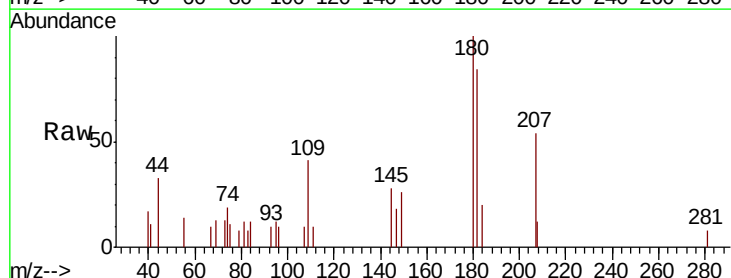
Instrument :
 MSVOA_N
 ClientSampled :
 RBR-251-688

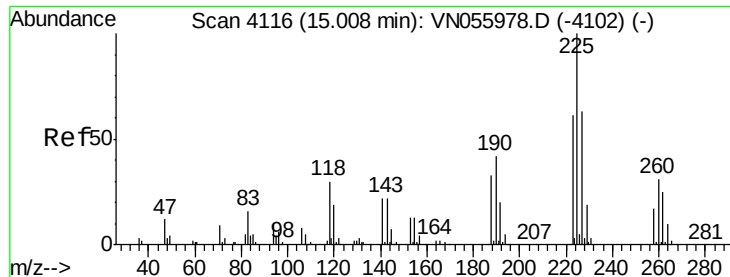
Tot Ion:146 Resp: 1241
 Ion Ratio Lower Upper
 146 100
 111 36.3 19.1 57.5
 148 52.9 31.9 95.9



#93
 1,2,4-Trichlorobenzene
 Concen: 5.100 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055985.D
 Acq: 4 Jun 2019 12:44

Tgt Ion:180 Resp: 3094
 Ion Ratio Lower Upper
 180 100
 182 80.7 48.3 144.9
 145 22.4 14.0 41.9





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN055985.D

Acq: 4 Jun 2019 12:44

Instrument :

MSVOA_N

ClientSampleId :

RBR-251-688

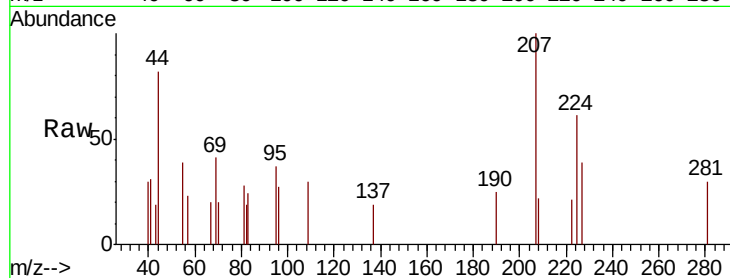
Tot Ion:225 Resp: 758

Ion Ratio Lower Upper

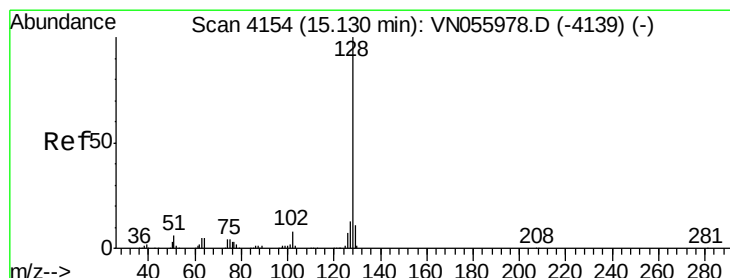
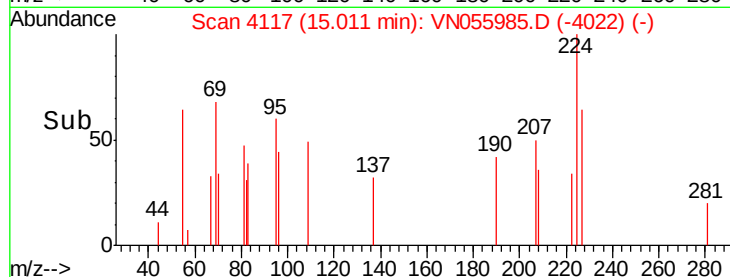
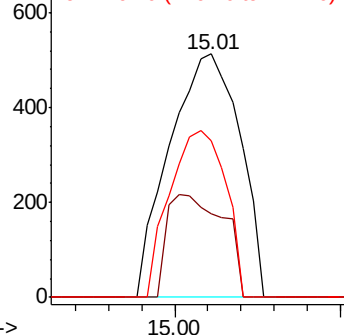
225 100

223 33.8 30.9 92.7

227 54.2 31.6 94.7



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.693 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055985.D

Acq: 4 Jun 2019 12:44

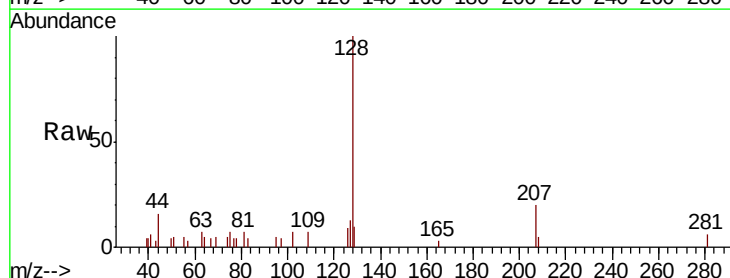
Tgt Ion:128 Resp: 8059

Ion Ratio Lower Upper

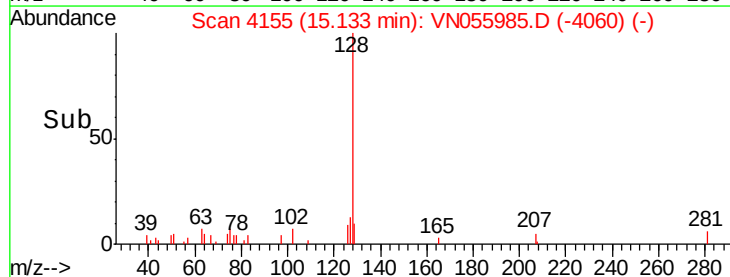
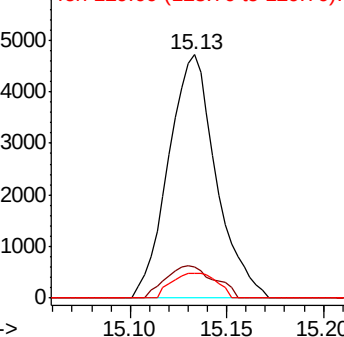
128 100

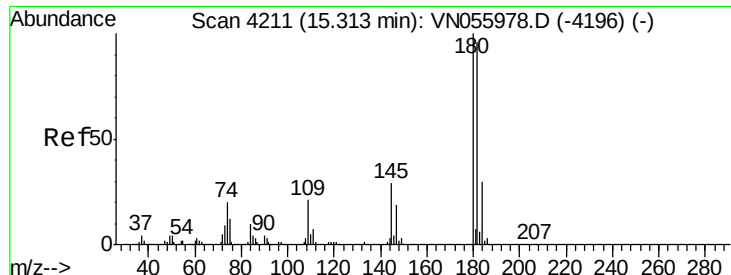
127 13.4 10.3 15.5

129 9.7 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

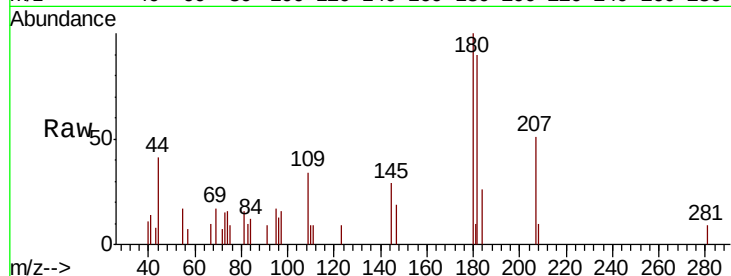




#96
 1,2,3-Trichlorobenzene
 Concen: 4.084 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN055985.D
 Acq: 4 Jun 2019 12:44

Instrument :
 MSVOA_N
 ClientSampleId :
 RBR-251-688

Tot Ion:180 Resp: 3893
 Ion Ratio Lower Upper
 180 100
 182 92.1 47.9 143.7
 145 27.5 14.9 44.7



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

