

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058197.D
 Acq On : 19 Sep 2019 12:02
 Operator : JC/SP
 Sample : K4896-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D1-20190912

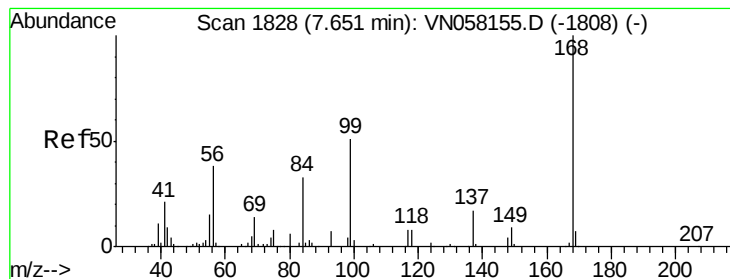
Quant Time: Sep 20 01:49:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	523649	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	844738	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	717094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	292573	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	367731	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
35) Dibromofluoromethane	7.57	113	256406	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
50) Toluene-d8	10.08	98	1047417	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	
62) 4-Bromofluorobenzene	12.40	95	340501	45.81	ug/l	0.00
Spiked Amount			Recovery	=	91.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1325	Below Cal		98
5) Bromomethane	2.56	94	303	0.878	ug/l #	61
9) 1,1,2-Trichlorotrifluoroet	3.74	101	5063	1.196	ug/l	94
11) Tert butyl alcohol	4.74	59	432	0.498	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	141	Below Cal	#	15
16) Acetone	3.80	43	5630	2.274	ug/l	96
17) Carbon Disulfide	4.04	76	30	0.277	ug/l #	74
20) Methylene Chloride	4.53	84	462	Below Cal	#	80
27) cis-1,2-Dichloroethene	6.81	96	2490	0.469	ug/l	73
31) Cyclohexane	7.65	56	13317	Below Cal	#	21
36) 1,1-Dichloropropene	7.65	75	43182	7.089	ug/l #	51
38) Carbon Tetrachloride	7.65	117	51819	8.462	ug/l #	15
39) Methylcyclohexane	8.82	83	3373	0.643	ug/l #	1
41) Methacrylonitrile	7.32	41	31	0.921	ug/l #	100
43) Isopropyl Acetate	8.19	43	9228	0.782	ug/l #	57
44) Trichloroethene	8.82	130	270081	59.316	ug/l	99
49) 1,4-Dioxane	9.19	88	856	9.726	ug/l #	52
60) Dibromochloromethane	10.63	129	12202	2.451	ug/l #	11
64) Tetrachloroethene	10.63	164	13006	3.721	ug/l	98
71) Bromoform	12.40	173	1231	3.932	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	182858	34.922	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	182858	97.703	ug/l #	5

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058197.D

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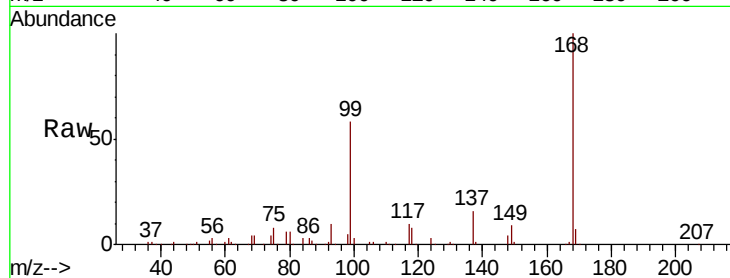
RE104D1-20190912

Tot Ion:168 Resp: 523649

Ion Ratio Lower Upper

168 100

99 58.0 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

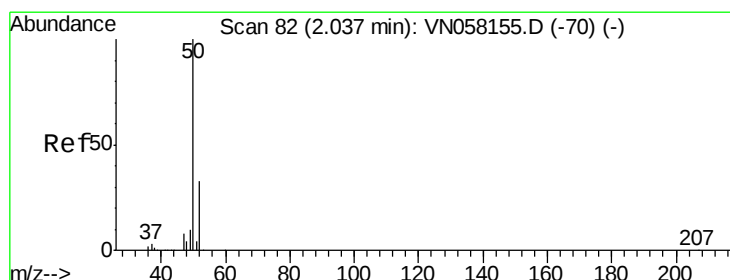
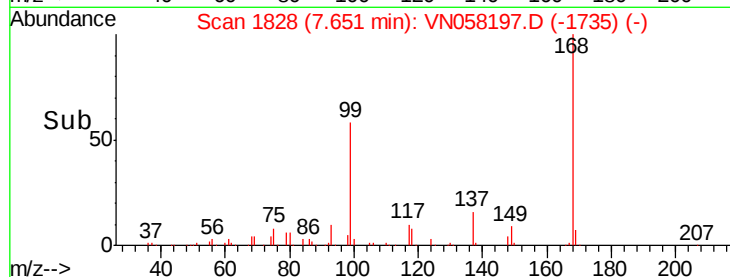
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN058197.D

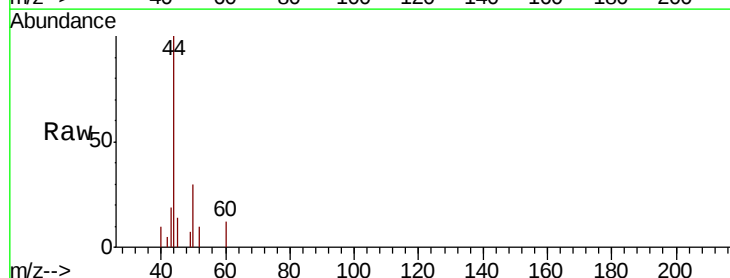
Acq: 19 Sep 2019 12:02

Tgt Ion: 50 Resp: 1325

Ion Ratio Lower Upper

50 100

52 32.0 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

800

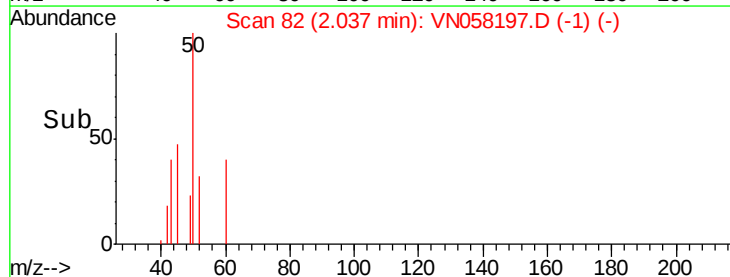
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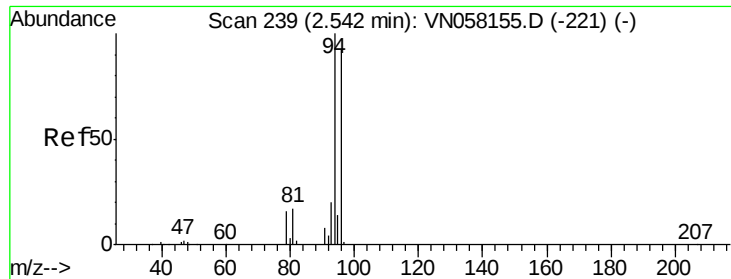
400

200

0

Time-->





#5

Bromomethane

Concen: 0.878 ug/l

RT: 2.56 min Scan# 244

Delta R.T. 0.02 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

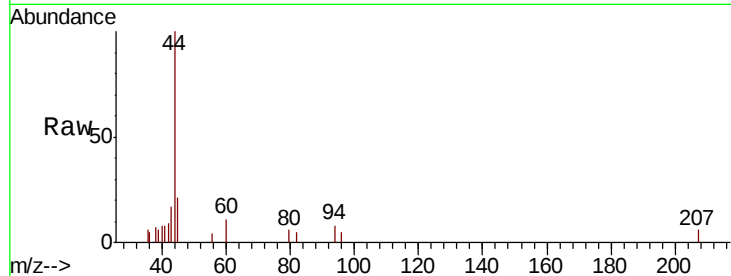
RE104D1-20190912

Tot Ion: 94 Resp: 303

Ion Ratio Lower Upper

94 100

96 54.7 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.56

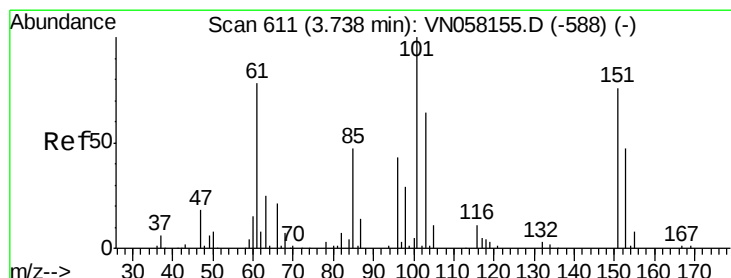
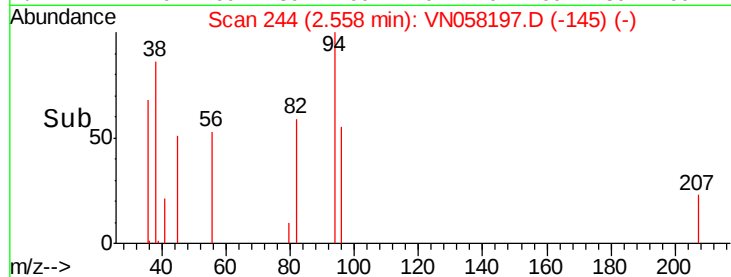
300

200

100

0

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.196 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

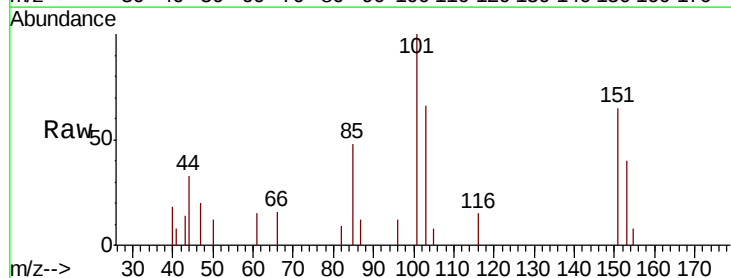
Tgt Ion:101 Resp: 5063

Ion Ratio Lower Upper

101 100

85 50.6 37.3 55.9

151 79.8 59.6 89.4



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V

2500

2000

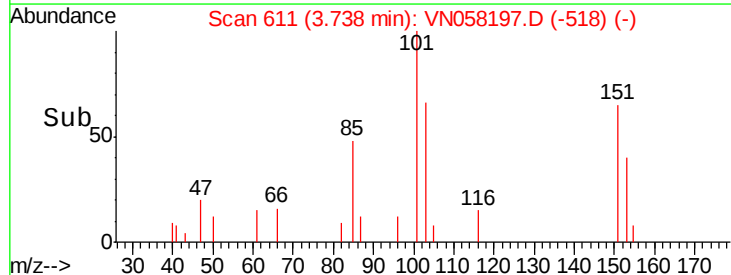
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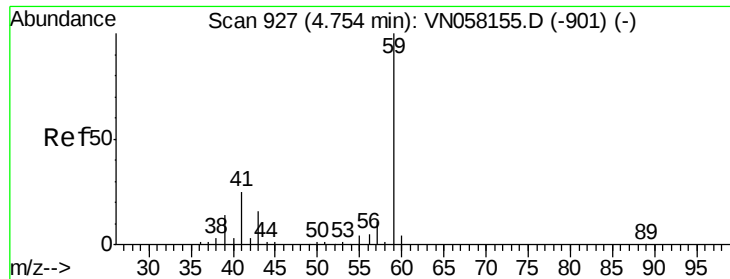
1000

500

0

Time-->

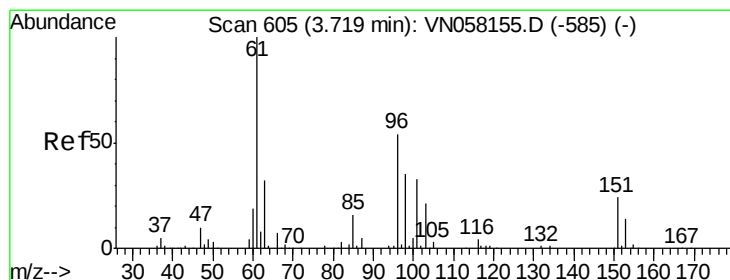
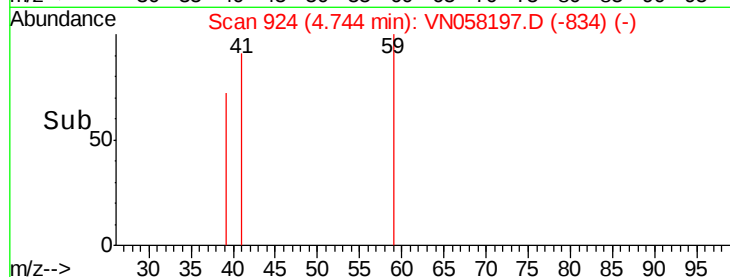
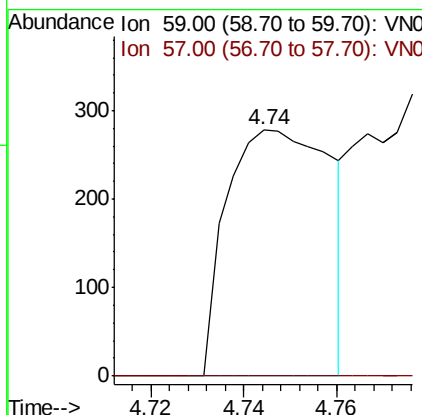
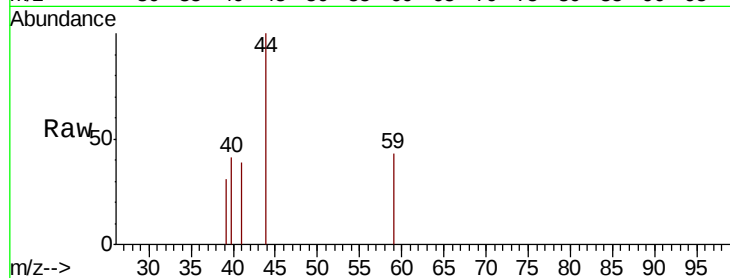




#11
Tert butyl alcohol
Concen: 0.498 ug/l
RT: 4.74 min Scan# 924
Delta R.T. -0.01 min
Lab File: VN058197.D
Acq: 19 Sep 2019 12:02

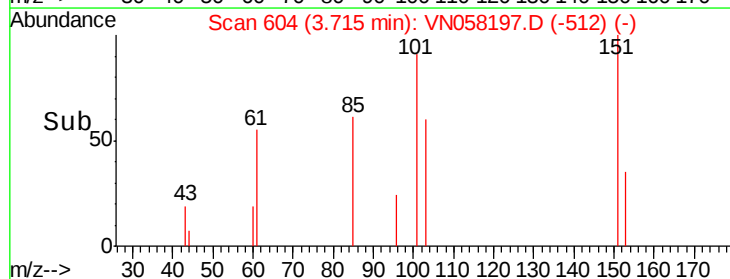
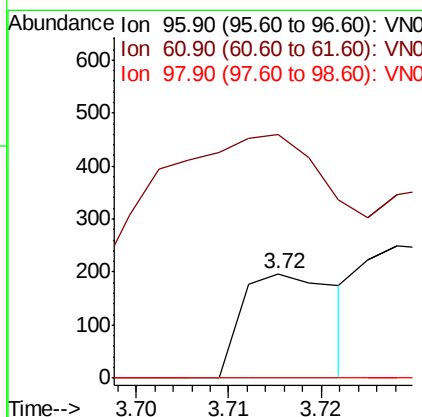
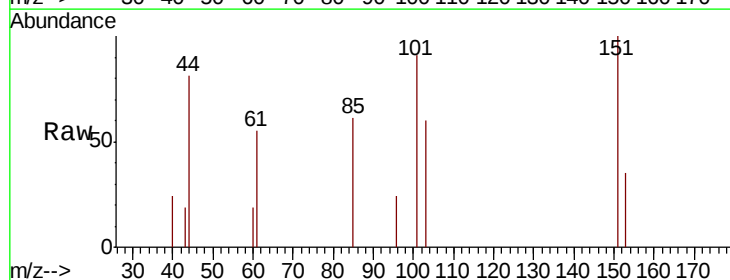
Instrument :
MSVOA_N
ClientSampleId :
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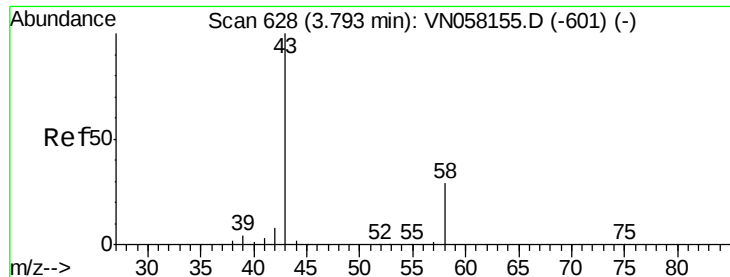
Tot Ion: 59 Resp: 432
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#12
1,1-Dichloroethene
Concen: Below Cal
RT: 3.72 min Scan# 604
Delta R.T. -0.00 min
Lab File: VN058197.D
Acq: 19 Sep 2019 12:02

Tgt Ion: 96 Resp: 141
Ion Ratio Lower Upper
96 100
61 62.4 149.5 224.3#
98 0.0 52.4 78.6#





#16

Acetone

Concen: 2.274 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

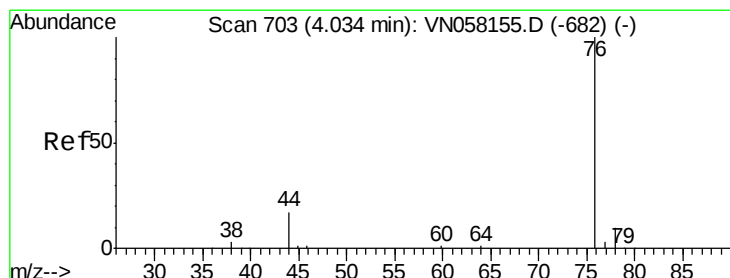
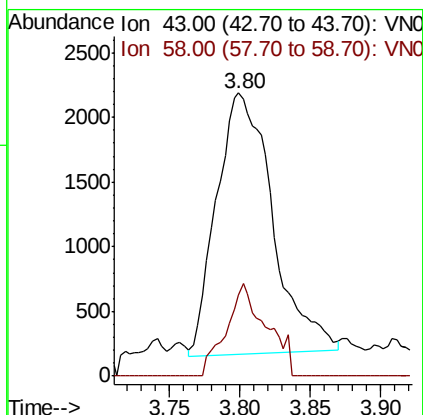
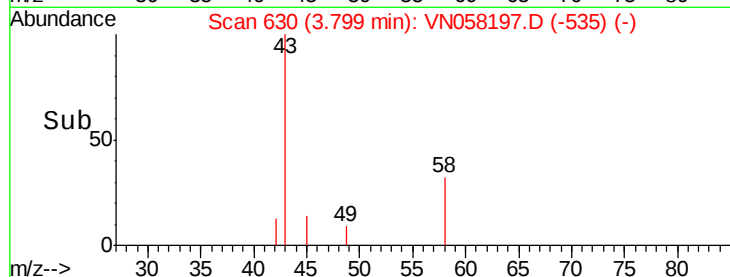
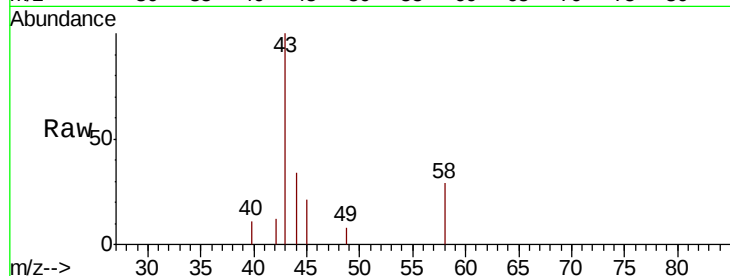
RE104D1-20190912

Tot Ion: 43 Resp: 5630

Ion Ratio Lower Upper

43 100

58 31.6 23.4 35.2



#17

Carbon Disulfide

Concen: 0.277 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.01 min

Lab File: VN058197.D

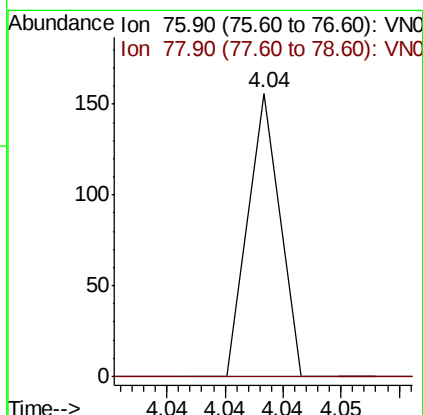
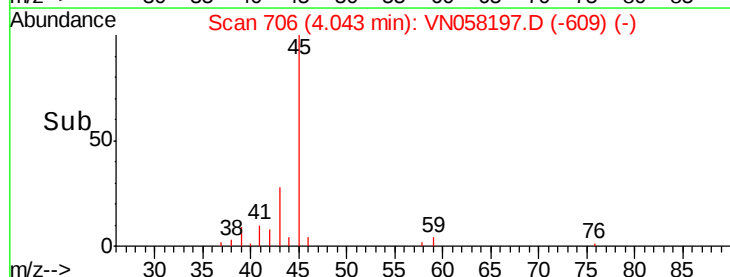
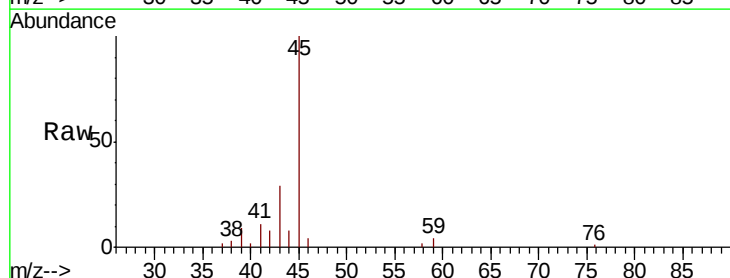
Acq: 19 Sep 2019 12:02

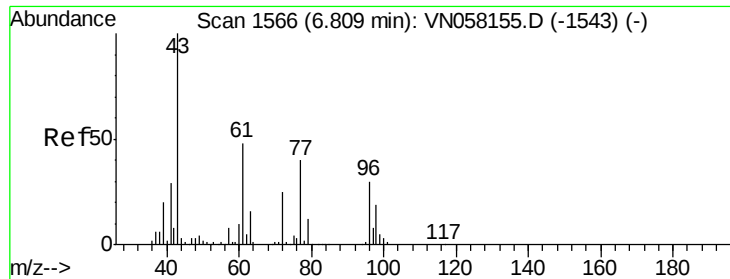
Tgt Ion: 76 Resp: 30

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#

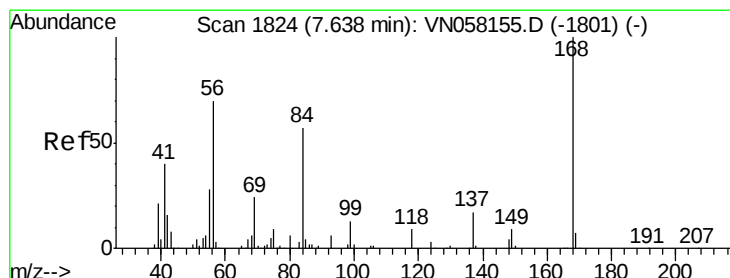
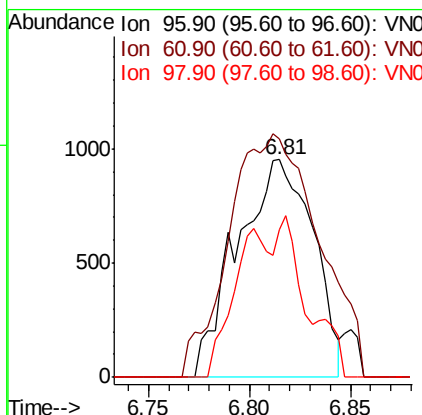
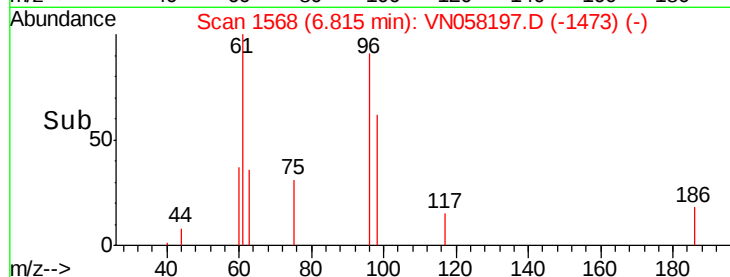
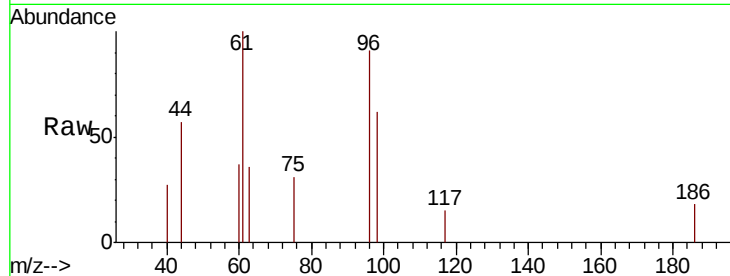




#27
 cis-1,2-Dichloroethene
 Concen: 0.469 ug/l
 RT: 6.81 min Scan# 1568
 Delta R.T. 0.01 min
 Lab File: VN058197.D
 Acq: 19 Sep 2019 12:02

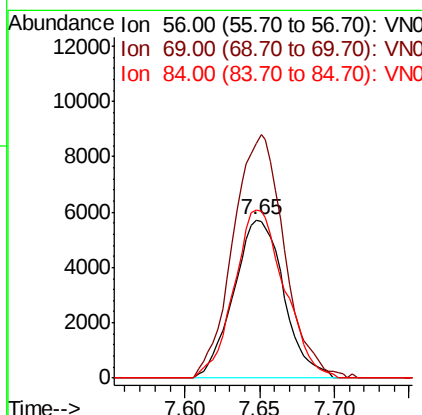
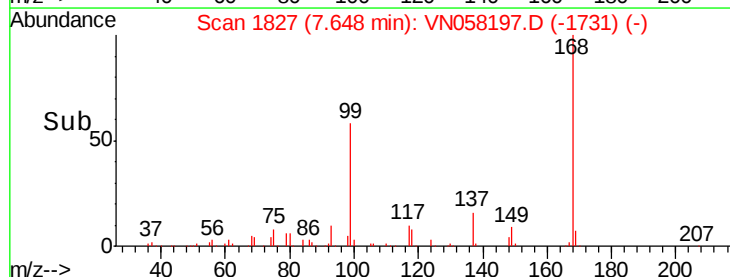
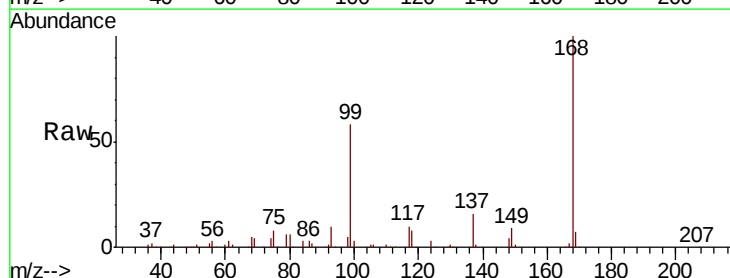
Instrument :
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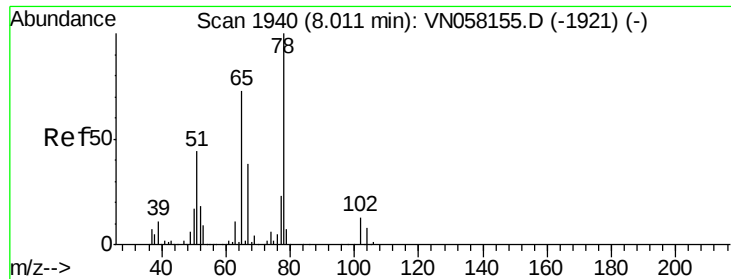
Tot Ion: 96 Resp: 2490
 Ion Ratio Lower Upper
 96 100
 61 132.8 0.0 319.0
 98 29.2 0.0 126.6



#31
 Cyclohexane
 Concen: Below Cal
 RT: 7.65 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VN058197.D
 Acq: 19 Sep 2019 12:02

Tgt Ion: 56 Resp: 13317
 Ion Ratio Lower Upper
 56 100
 69 148.6 27.3 40.9#
 84 106.6 65.0 97.4#

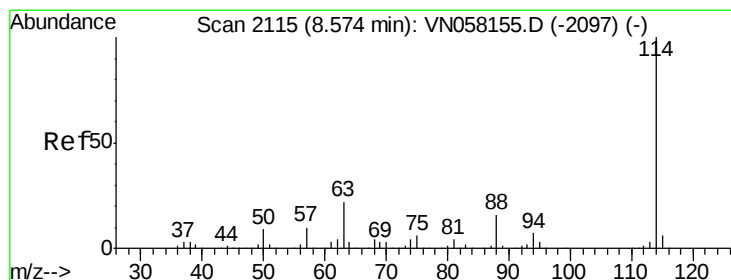
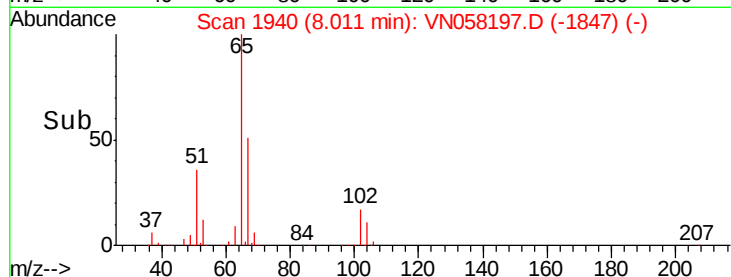
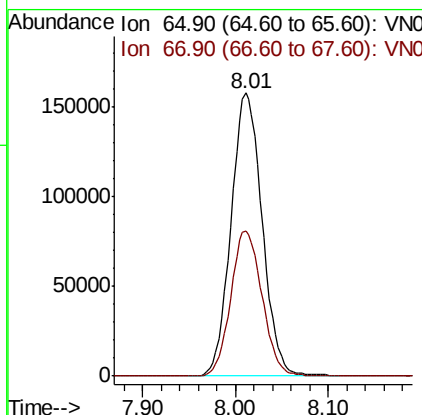
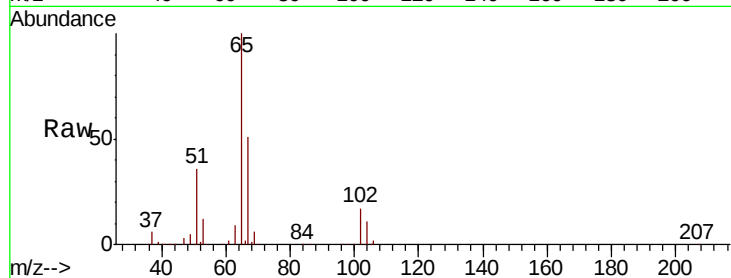




#33
 1,2-Dichloroethane-d4
 Concen: 50.420 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058197.D
 Acq: 19 Sep 2019 12:02

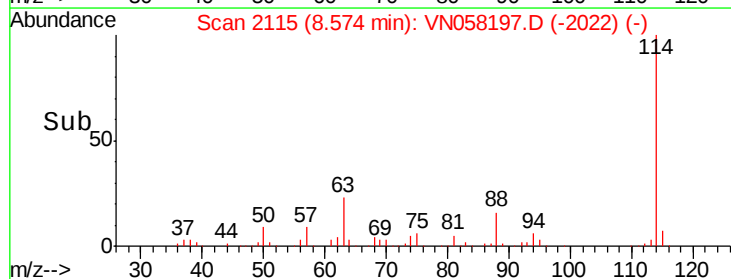
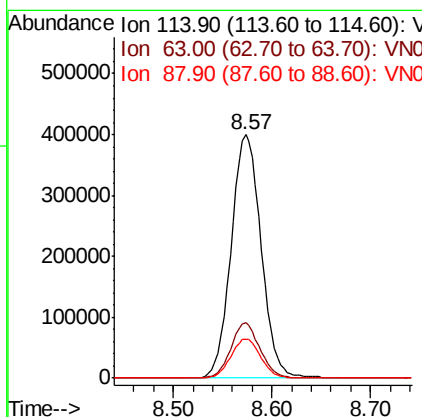
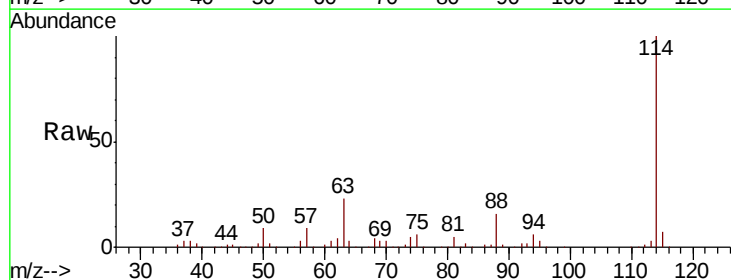
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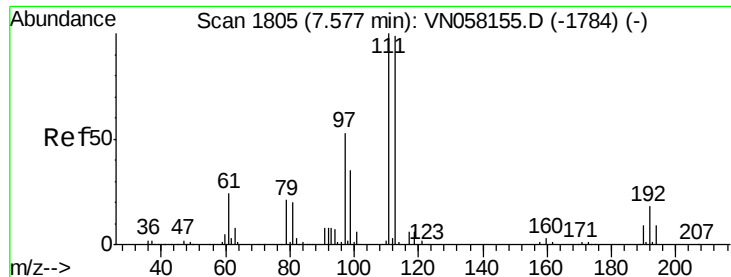
Tot Ion: 65 Resp: 367731
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058197.D
 Acq: 19 Sep 2019 12:02

Tgt Ion: 114 Resp: 844738
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 44.2
 88 16.1 0.0 31.6

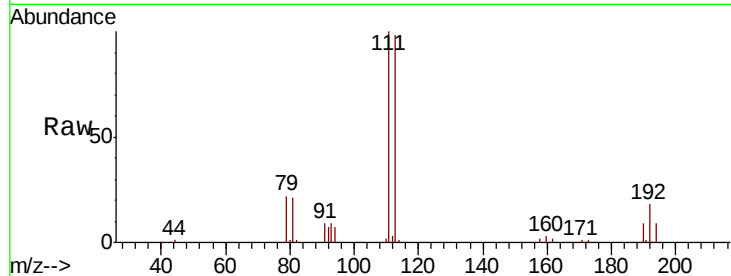




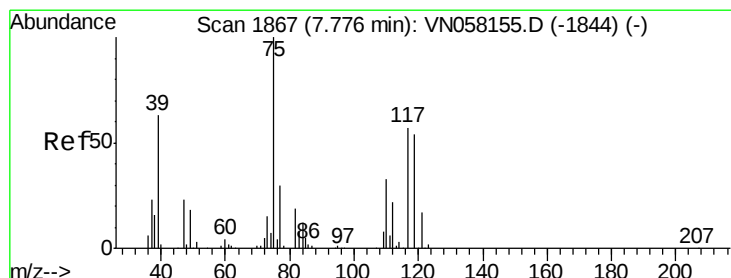
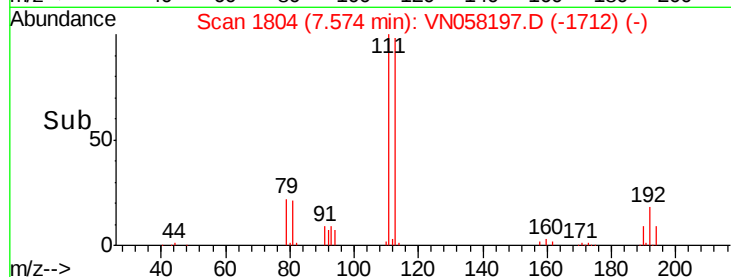
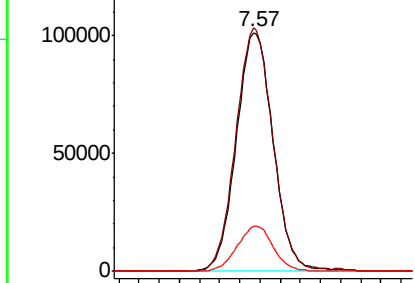
#35
 Dibromofluoromethane
 Concen: 49.930 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058197.D
 Acq: 19 Sep 2019 12:02

Instrument :
 MSVOA_N
 ClientSampleId :
 RE104D1-20190912

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.6
192	18.7	14.5	21.7

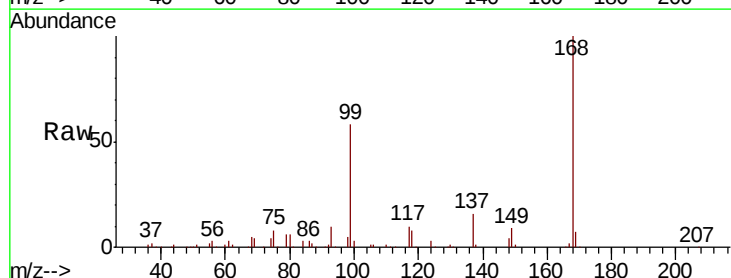


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

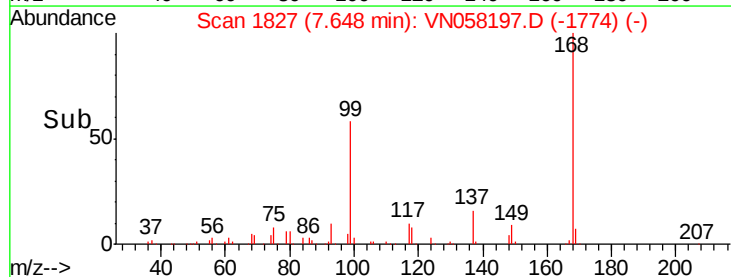
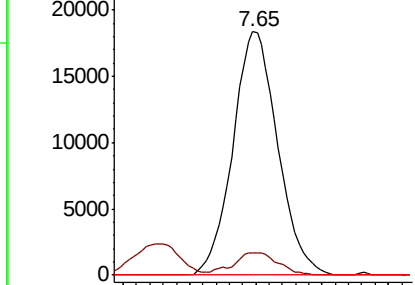


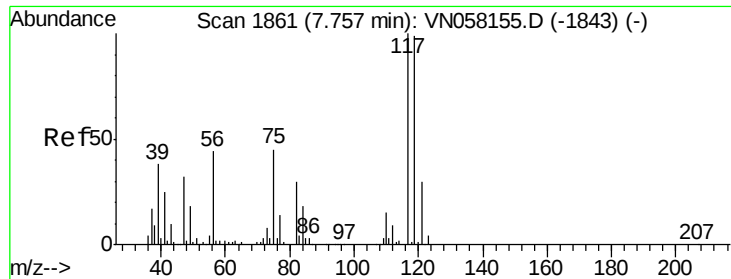
#36
 1,1-Dichloropropene
 Concen: 7.089 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058197.D
 Acq: 19 Sep 2019 12:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.6	49.7#
77	0.0	24.3	36.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 8.462 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20190912

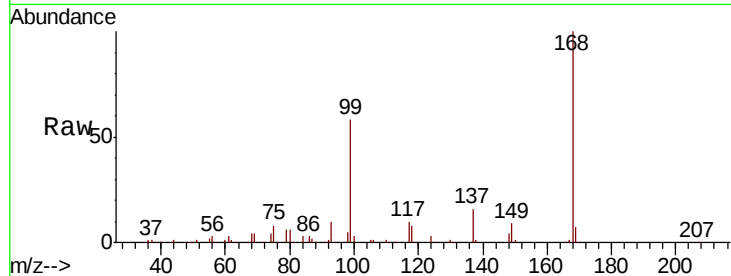
Tot Ion:117 Resp: 51819

Ion Ratio Lower Upper

117 100

119 4.7 78.6 117.8#

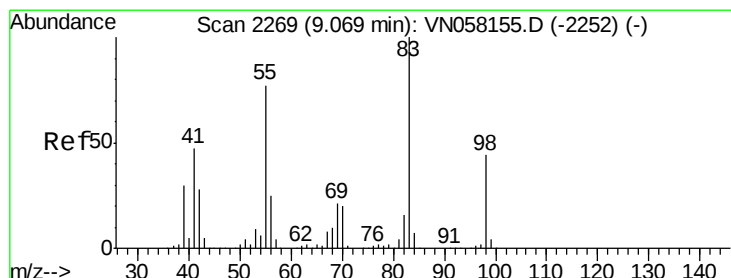
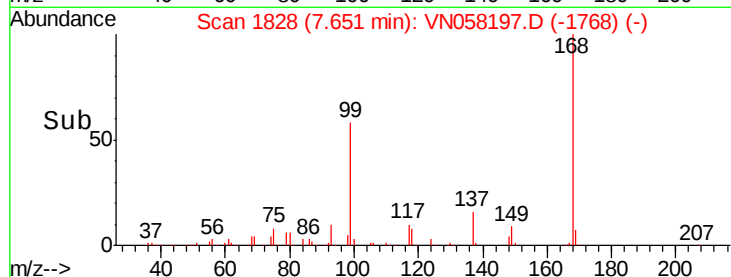
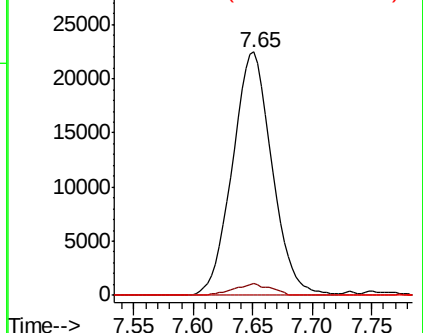
121 0.0 24.1 36.1#



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



#39

Methylcyclohexane

Concen: 0.643 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.25 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

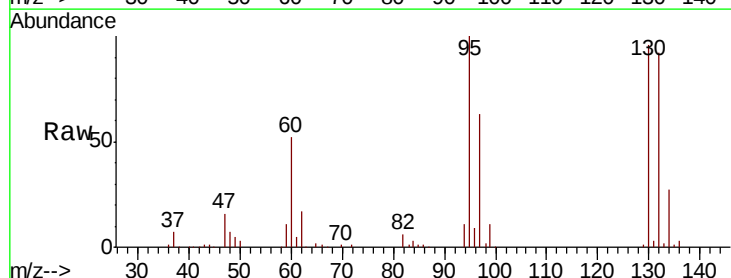
Tgt Ion: 83 Resp: 3373

Ion Ratio Lower Upper

83 100

55 0.0 61.9 92.9#

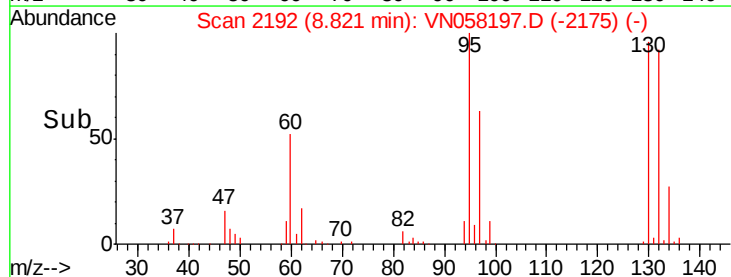
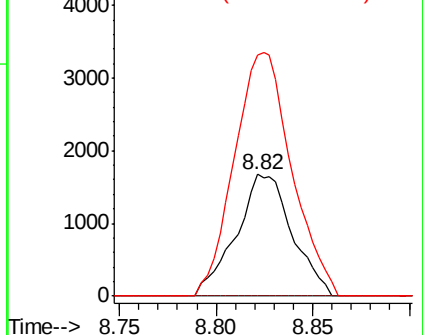
98 198.4 35.4 53.2#

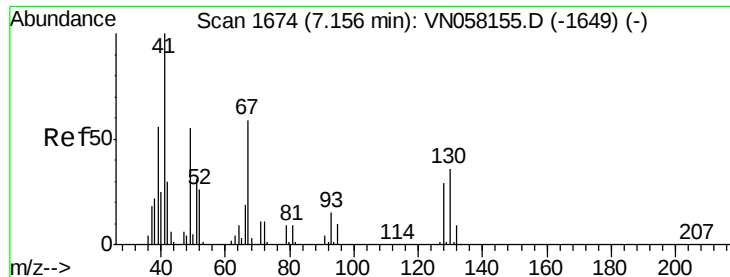


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V

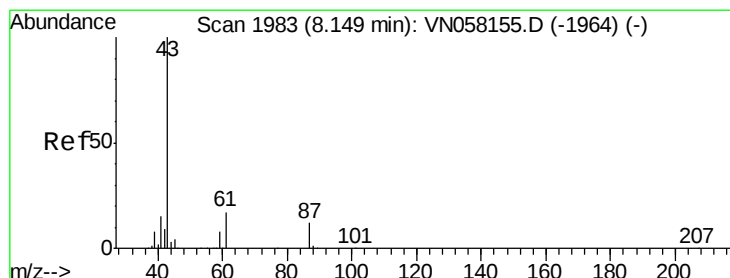
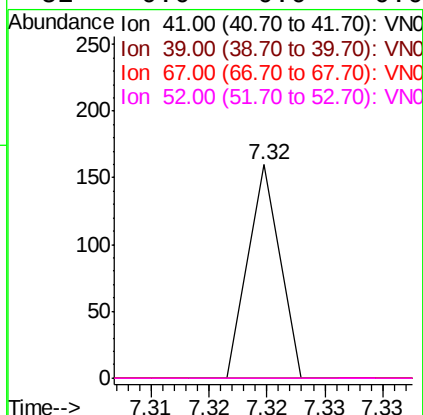
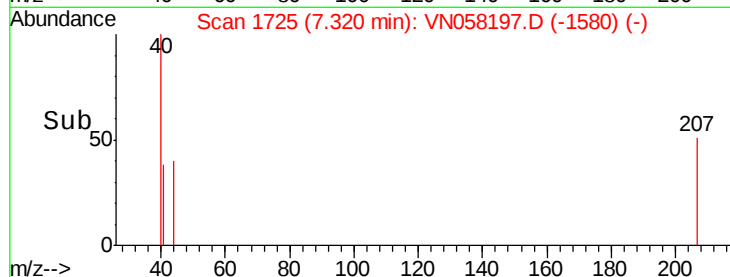
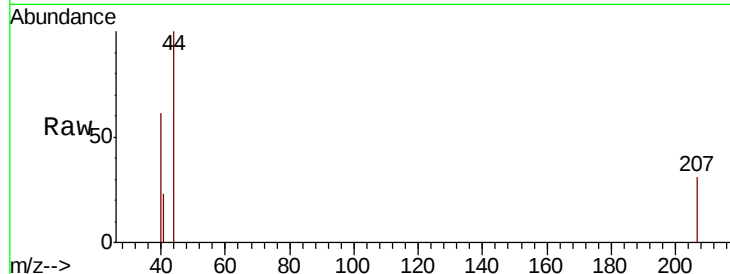




#41
Methacrylonitrile
Concen: 0.921 ug/l
RT: 7.32 min Scan# 1725
Delta R.T. 0.16 min
Lab File: VN058197.D
Acq: 19 Sep 2019 12:02

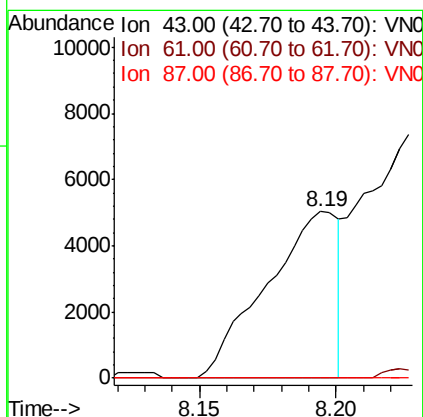
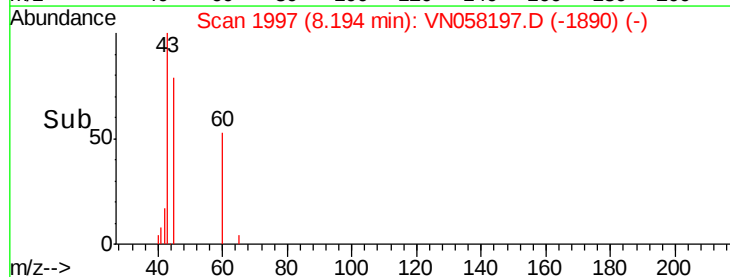
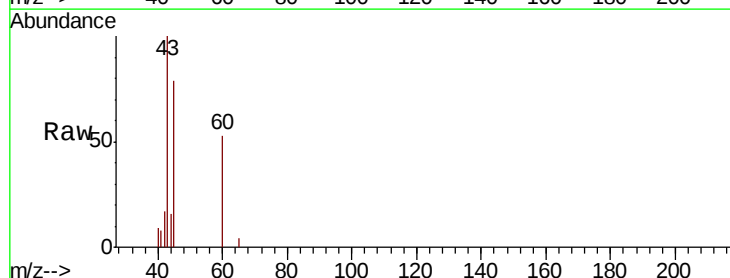
Instrument :
MSVOA_N
ClientSampleId :
RE104D1-20190912

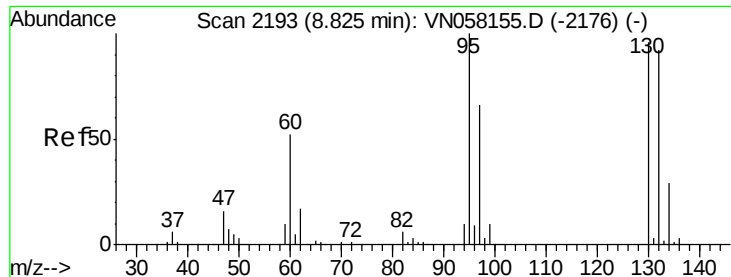
Tot Ion:	41	Resp:	31
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 0.782 ug/l
RT: 8.19 min Scan# 1997
Delta R.T. 0.04 min
Lab File: VN058197.D
Acq: 19 Sep 2019 12:02

Tgt Ion:	43	Resp:	9228
Ion	Ratio	Lower	Upper
43	100		
61	0.0	19.7	29.5#
87	0.0	9.4	14.2#





#44

Trichloroethene

Concen: 59.316 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

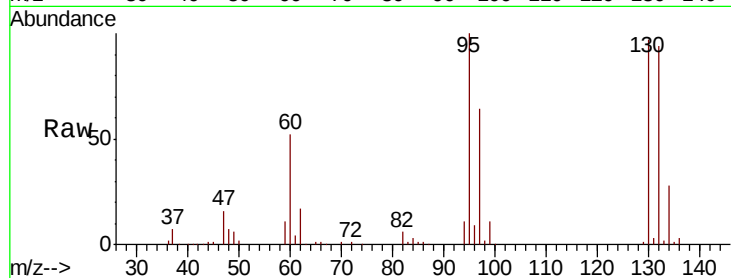
RE104D1-20190912

Tot Ion:130 Resp: 270081

Ion Ratio Lower Upper

130 100

95 103.2 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.82

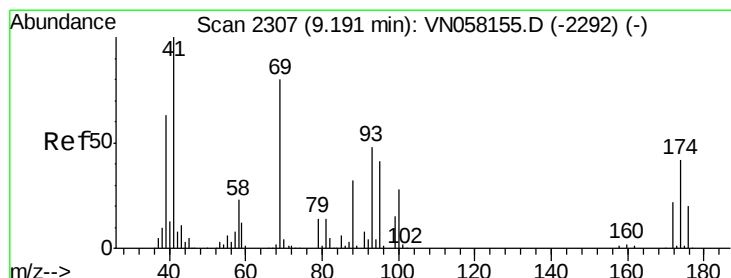
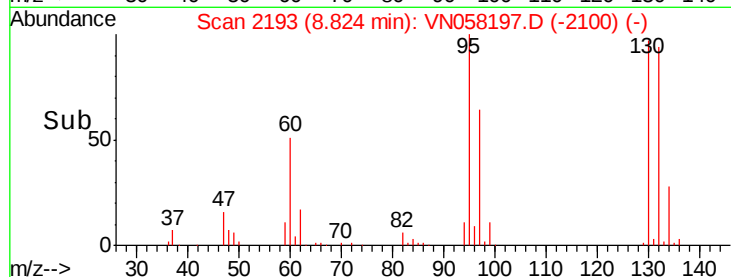
150000

100000

50000

0

Time--> 8.70 8.80 8.90



#49

1,4-Dioxane

Concen: 9.726 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

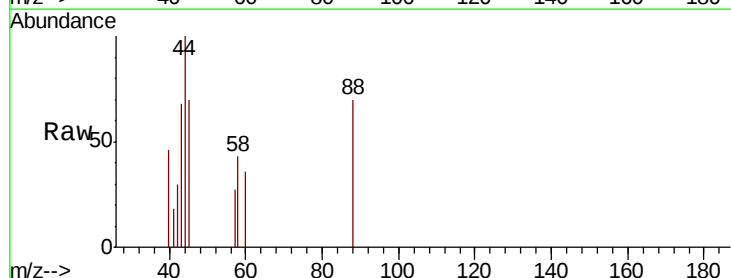
Tgt Ion: 88 Resp: 856

Ion Ratio Lower Upper

88 100

43 18.6 27.8 41.8#

58 20.9 55.0 82.4#



Abundance Ion 88.00 (87.70 to 88.70): VN

Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

800

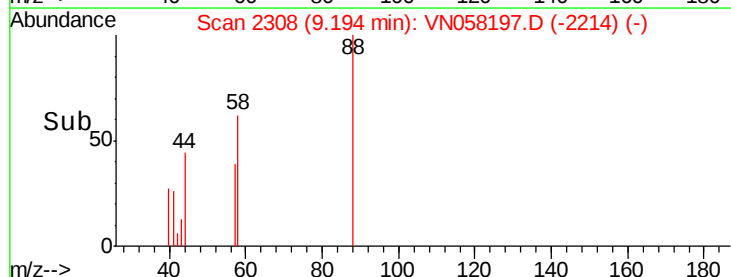
600

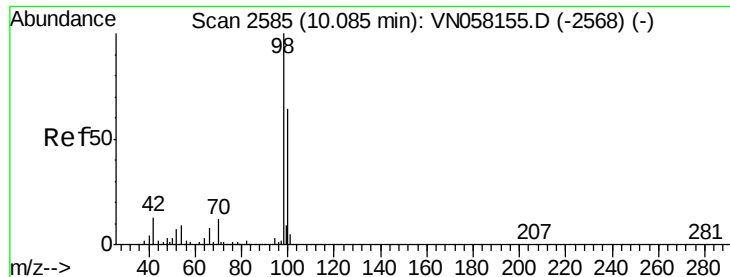
400

200

0

Time--> 9.16 9.18 9.20 9.22 9.24





#50

Toluene-d8

Concen: 52.349 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

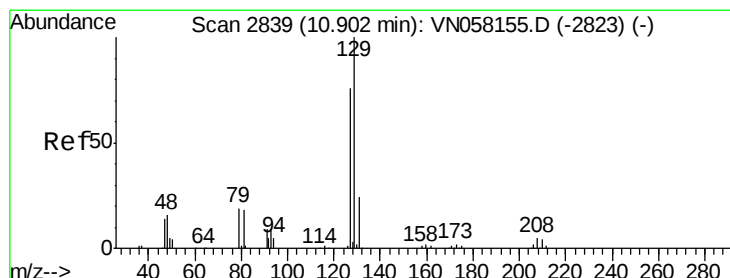
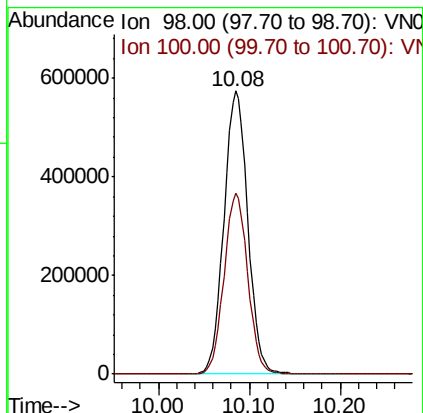
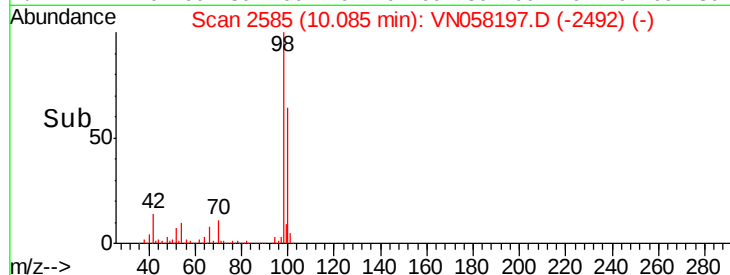
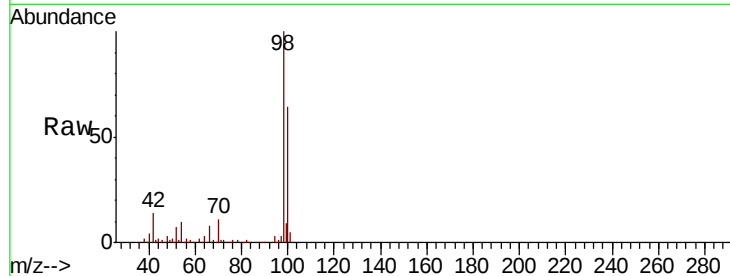
RE104D1-20190912

Tot Ion: 98 Resp: 1047417

Ion Ratio Lower Upper

98 100

100 63.5 51.1 76.7



#60

Dibromochloromethane

Concen: 2.451 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058197.D

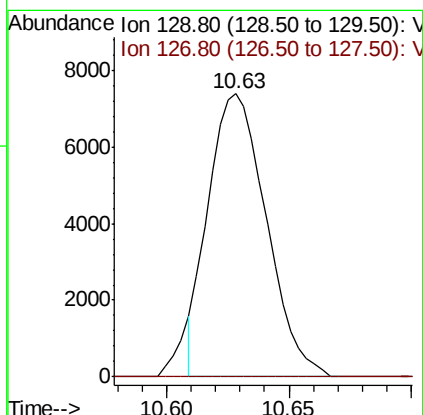
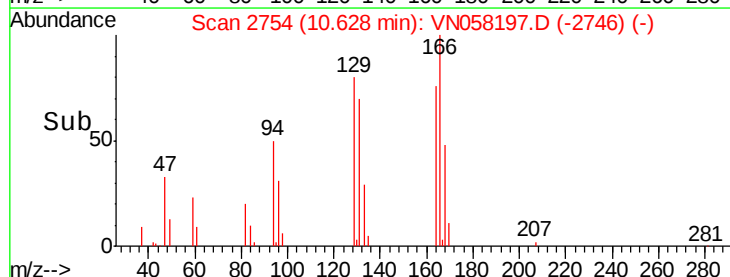
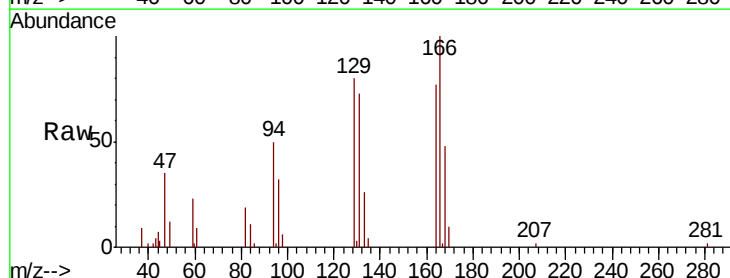
Acq: 19 Sep 2019 12:02

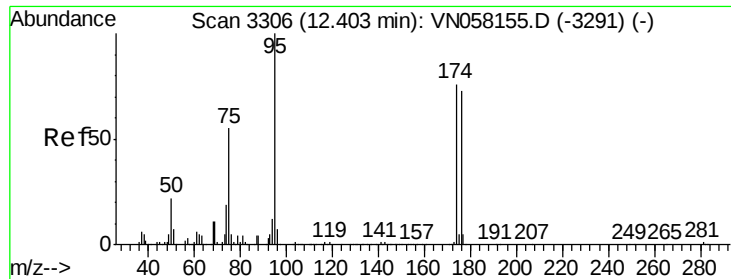
Tgt Ion: 129 Resp: 12202

Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#





#62

4-Bromofluorobenzene

Concen: 45.814 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20190912

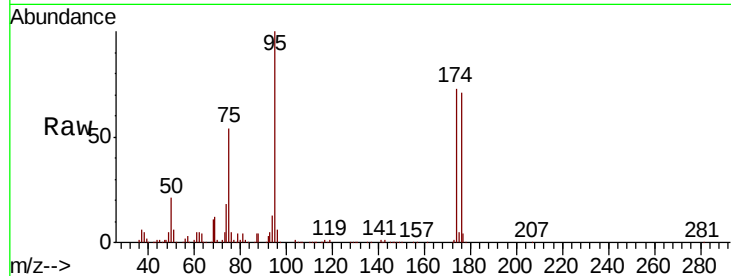
Tot Ion: 95 Resp: 340501

Ion Ratio Lower Upper

95 100

174 75.8 0.0 152.2

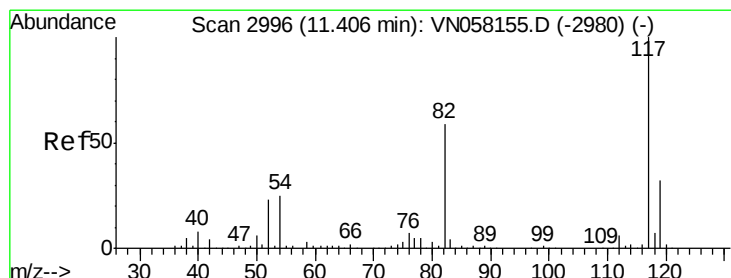
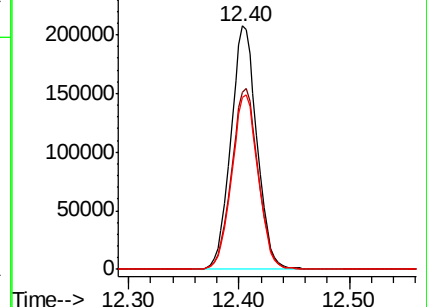
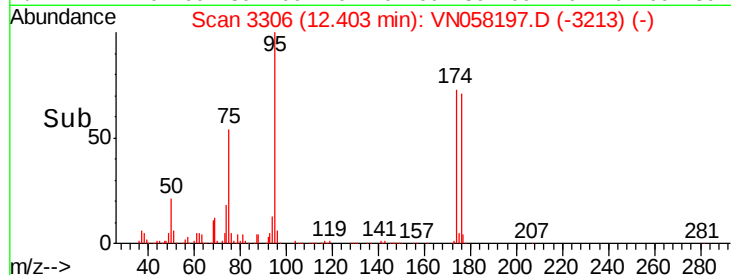
176 72.6 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058197.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN058197.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN058197.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

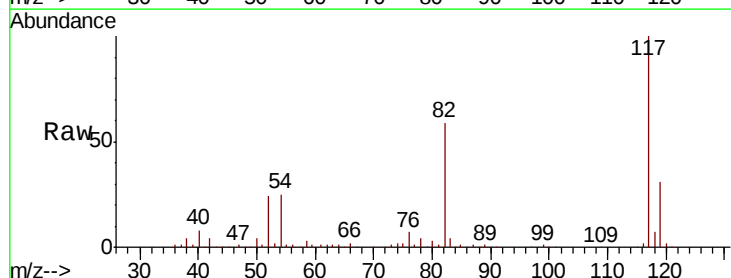
Tgt Ion: 117 Resp: 717094

Ion Ratio Lower Upper

117 100

82 59.3 46.9 70.3

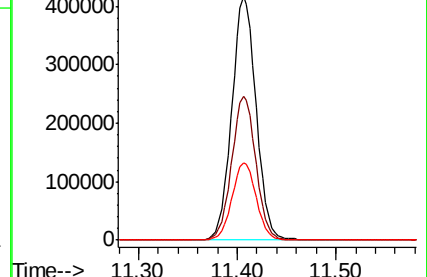
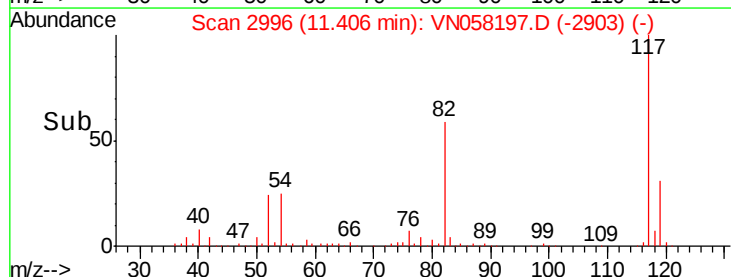
119 31.5 25.3 37.9

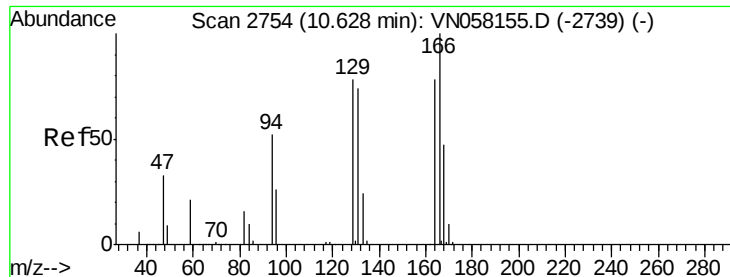


Abundance Ion 116.90 (116.60 to 117.60): VN058197.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058197.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058197.D (-2903) (-)





#64

Tetrachloroethene

Concen: 3.721 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20190912

Tot Ion:164 Resp: 13006

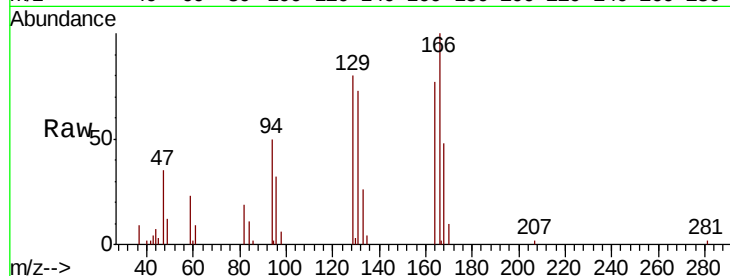
Ion Ratio Lower Upper

164 100

166 130.4 102.2 153.4

129 103.9 79.6 119.4

131 94.9 76.0 114.0

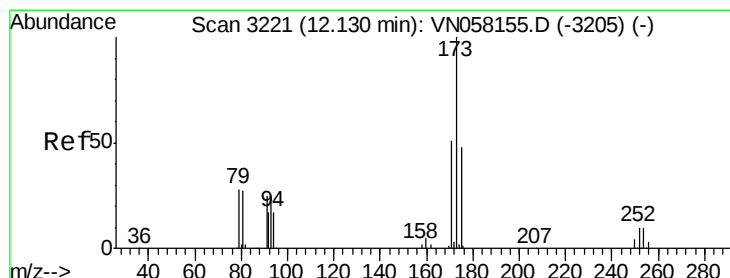
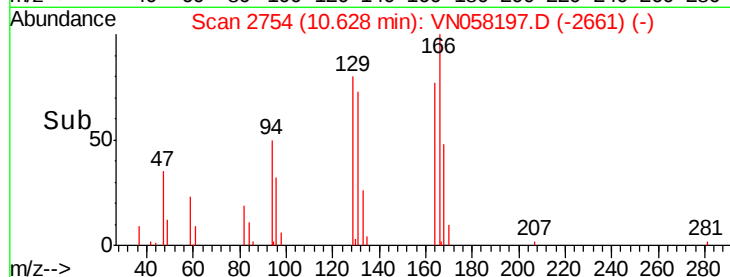
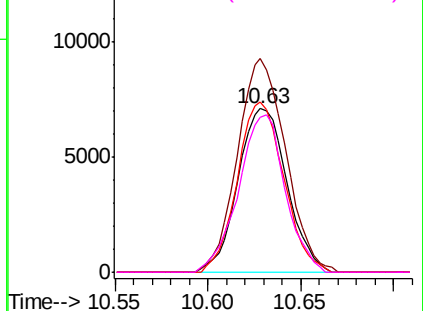


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 3.932 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

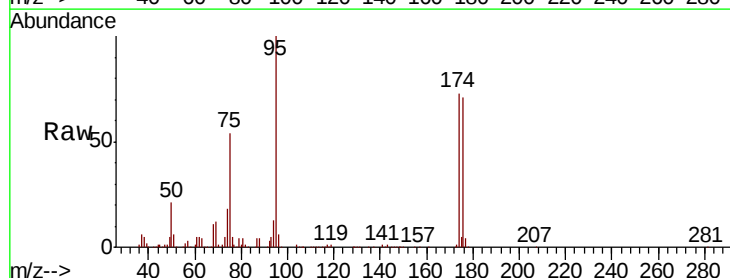
Tgt Ion:173 Resp: 1231

Ion Ratio Lower Upper

173 100

175 1343.9 24.2 72.6#

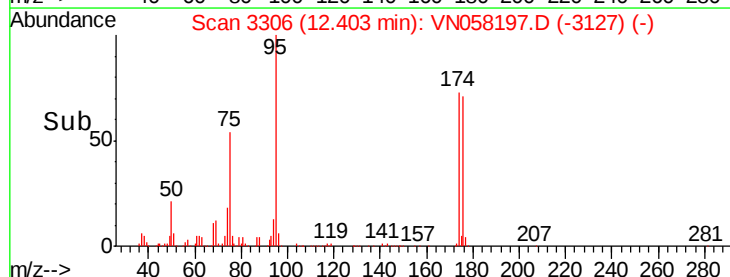
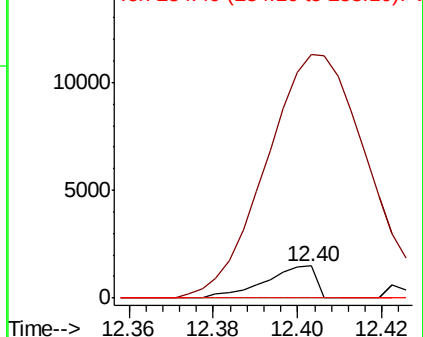
254 0.0 0.1 0.1#

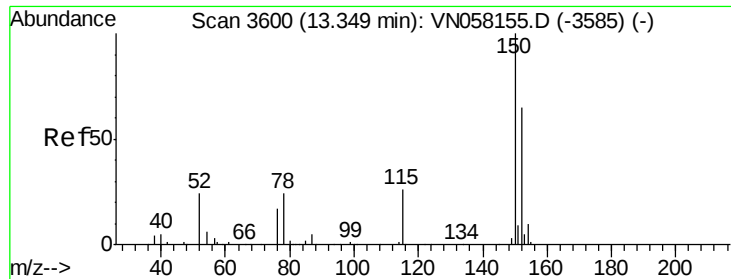


Abundance Ion 172.70 (172.40 to 173.40): V

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: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20190912

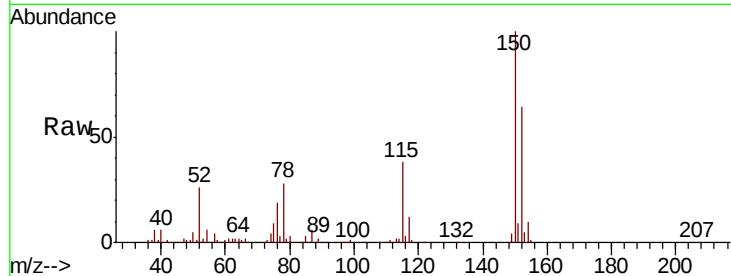
Tot Ion:152 Resp: 292573

Ion Ratio Lower Upper

152 100

115 60.2 30.1 90.3

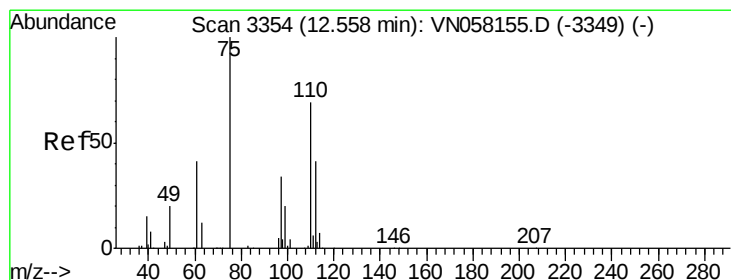
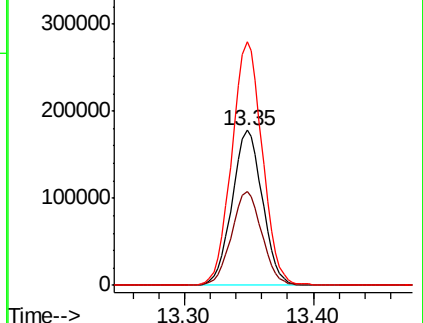
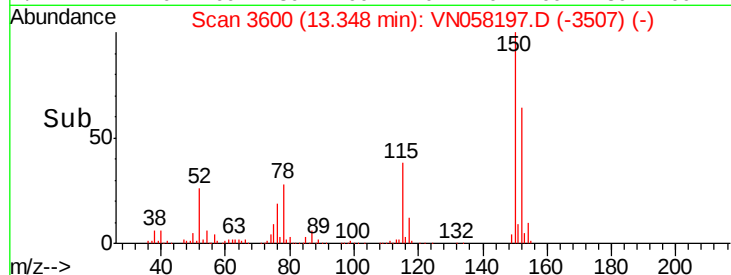
150 157.8 0.0 346.4



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: 34.922 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058197.D

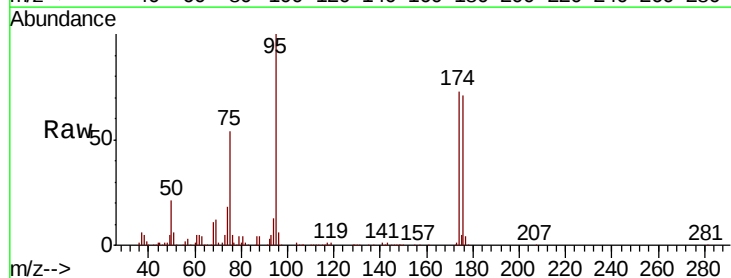
Acq: 19 Sep 2019 12:02

Tgt Ion: 75 Resp: 182858

Ion Ratio Lower Upper

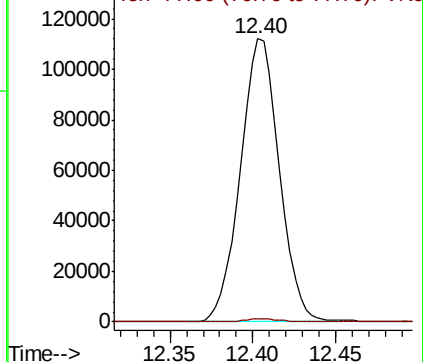
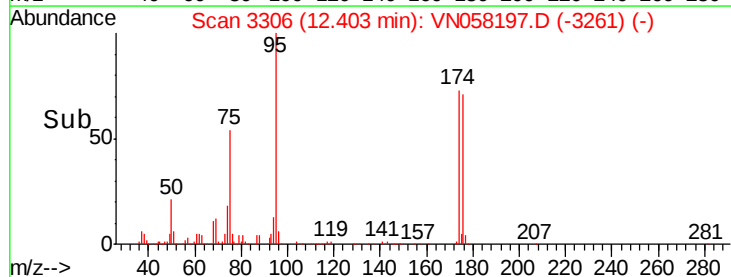
75 100

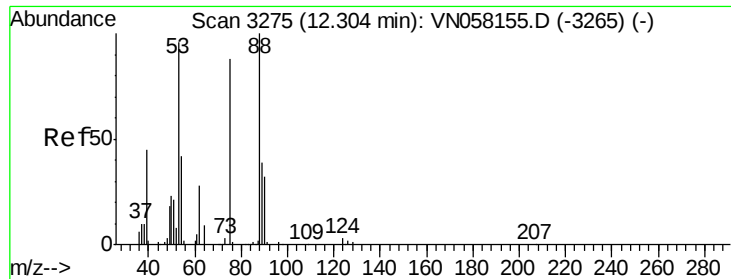
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 97.703 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058197.D

Acq: 19 Sep 2019 12:02

Instrument :

MSVOA_N

ClientSampleId :

RE104D1-20190912

Tot Ion: 75 Resp: 182858

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#

