

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080119\
 Data File : VN057035.D
 Acq On : 1 Aug 2019 14:25
 Operator : JC/SP
 Sample : K4097-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB203-DUP-20190729

Quant Time: Aug 02 05:13:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	571246	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	823590	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	670581	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176279	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	337585	57.73	ug/l	0.00
Spiked Amount			Recovery	=	115.46%	
35) Dibromofluoromethane	7.58	113	302772	57.43	ug/l	0.00
Spiked Amount			Recovery	=	114.86%	
50) Toluene-d8	10.08	98	1146113	57.00	ug/l	0.00
Spiked Amount			Recovery	=	114.00%	
62) 4-Bromofluorobenzene	12.40	95	288980	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	

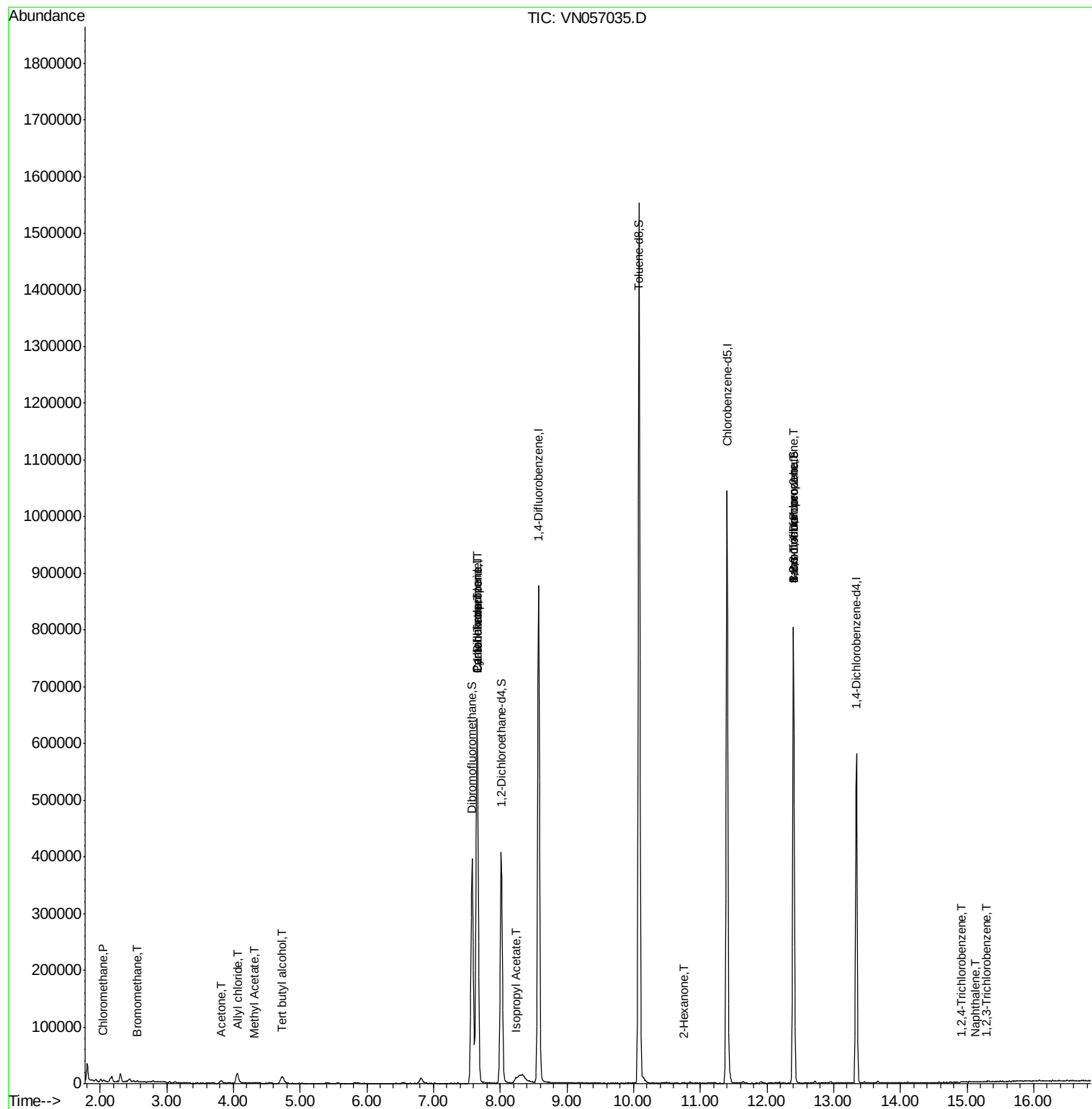
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.05	50	2800	0.405	ug/l	94
5) Bromomethane	2.57	94	898	0.223	ug/l #	77
11) Tert butyl alcohol	4.73	59	12698	16.065	ug/l #	74
14) Allyl chloride	4.06	41	2358	0.289	ug/l #	53
16) Acetone	3.81	43	8756	4.133	ug/l	98
18) Methyl Acetate	4.31	43	1371	0.203	ug/l #	51
31) Cyclohexane	7.66	56	8119	0.845	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	35676	4.923	ug/l #	48
38) Carbon Tetrachloride	7.65	117	49015	7.150	ug/l #	17
43) Isopropyl Acetate	8.24	43	5769	0.601	ug/l #	52
59) 2-Hexanone	10.75	43	705	2.659	ug/l #	40
71) Bromoform	12.40	173	2212	0.616	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	66	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	132082	36.895	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	132082	118.543	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	418	2.840	ug/l #	51
95) Naphthalene	15.13	128	567	3.658	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.28	180	136	2.092	ug/l #	1

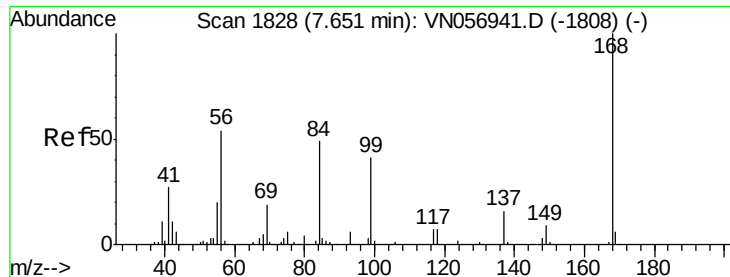
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

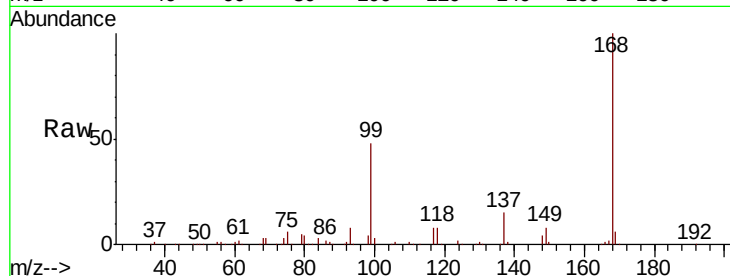
BP-VPB203-DUP-20190729

Tot Ion:168 Resp: 571246

Ion Ratio Lower Upper

168 100

99 48.4 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

250000

200000

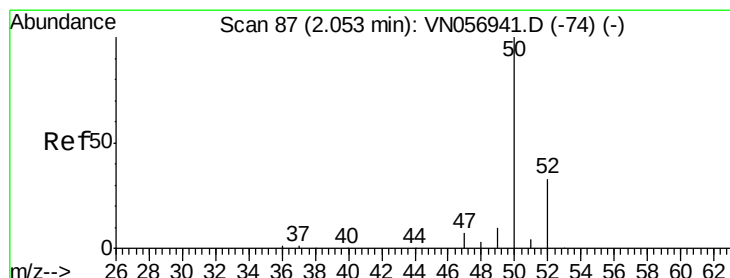
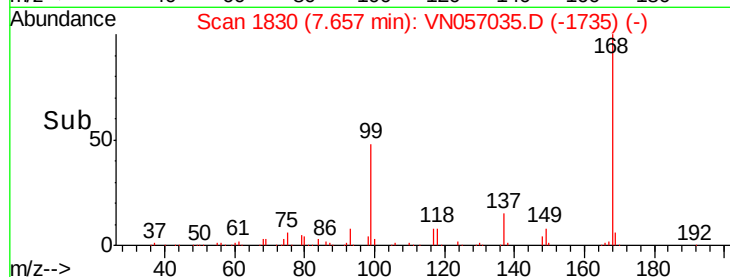
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.405 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN057035.D

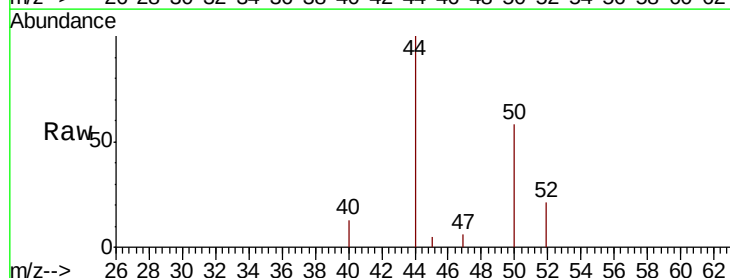
Acq: 1 Aug 2019 14:25

Tgt Ion: 50 Resp: 2800

Ion Ratio Lower Upper

50 100

52 35.9 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2000

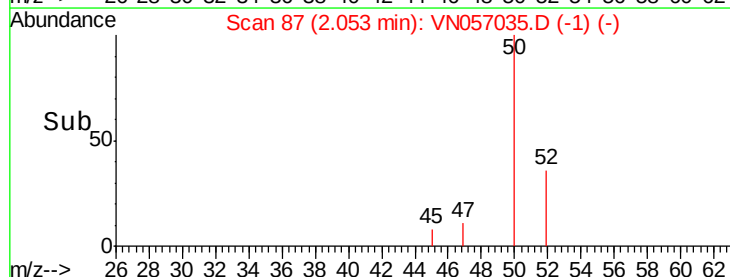
1500

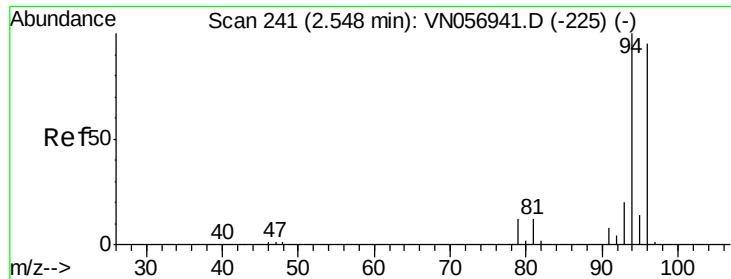
1000

500

0

Time-->

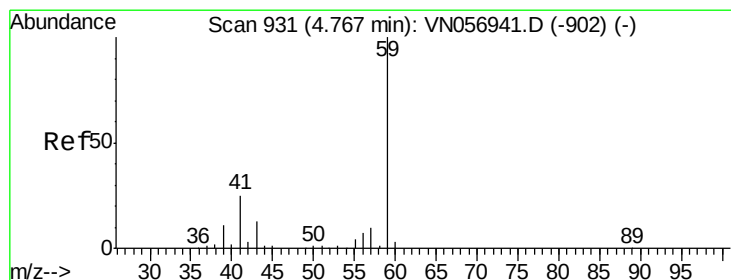
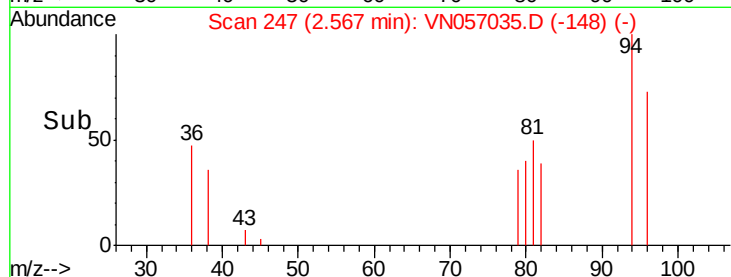
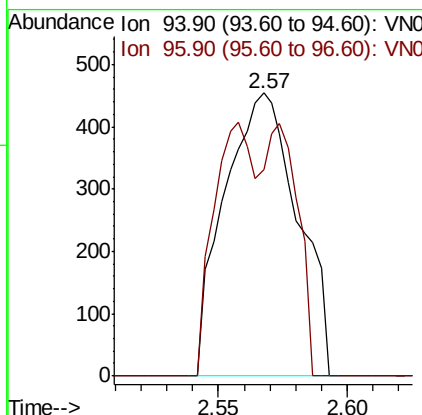
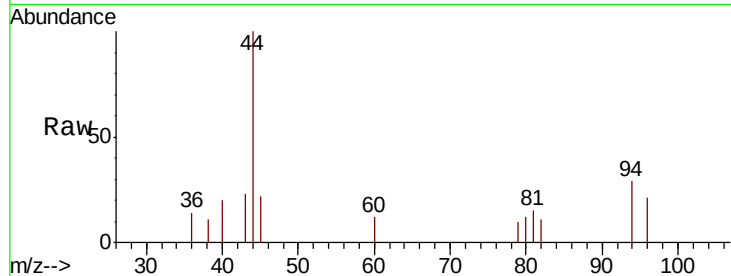




#5
Bromomethane
Concen: 0.223 ug/l
RT: 2.57 min Scan# 247
Delta R.T. 0.02 min
Lab File: VN057035.D
Acq: 1 Aug 2019 14:25

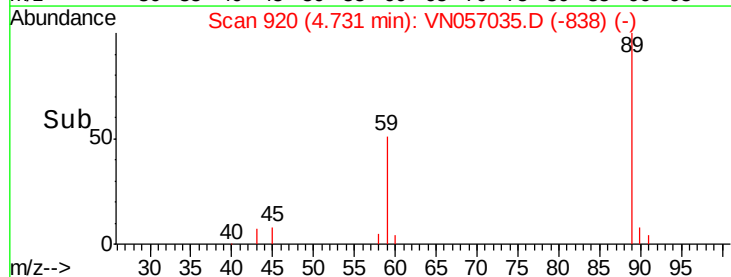
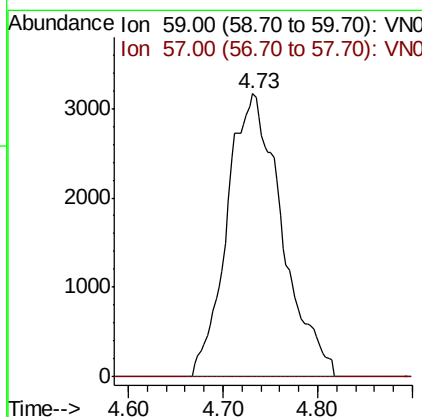
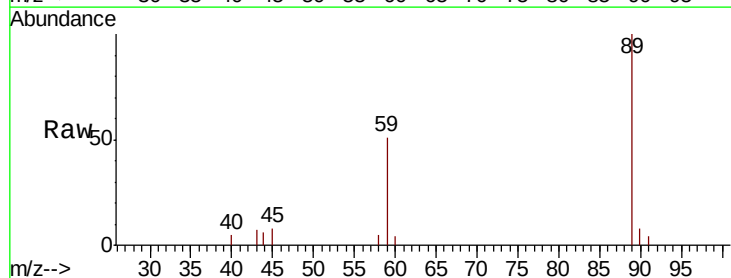
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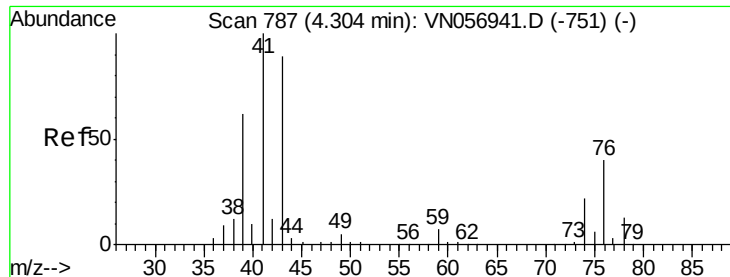
Tot Ion: 94 Resp: 898
Ion Ratio Lower Upper
94 100
96 72.9 76.2 114.2#



#11
Tert butyl alcohol
Concen: 16.065 ug/l
RT: 4.73 min Scan# 920
Delta R.T. -0.04 min
Lab File: VN057035.D
Acq: 1 Aug 2019 14:25

Tgt Ion: 59 Resp: 12698
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#

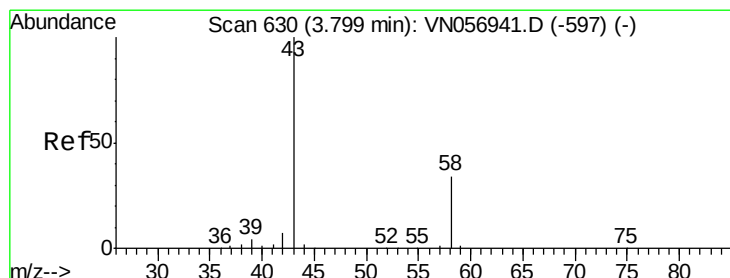
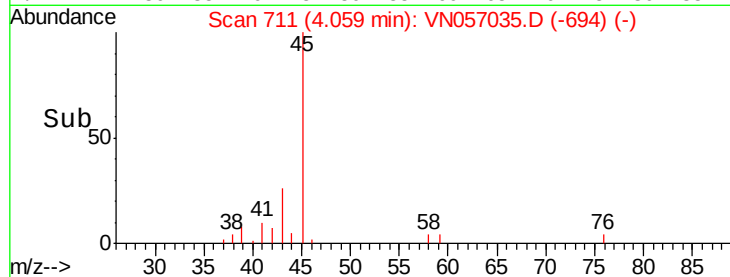
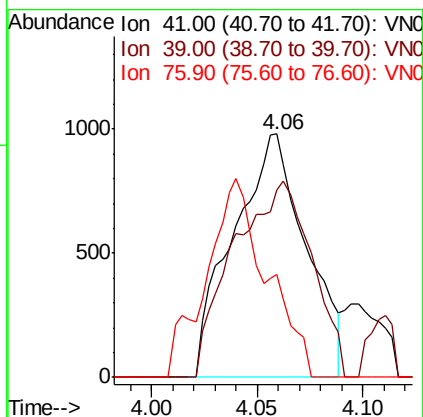
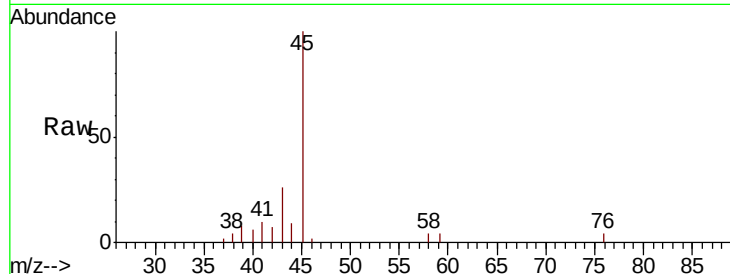




#14
Allvl chloride
Concen: 0.289 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.24 min
Lab File: VN057035.D
Acq: 1 Aug 2019 14:25

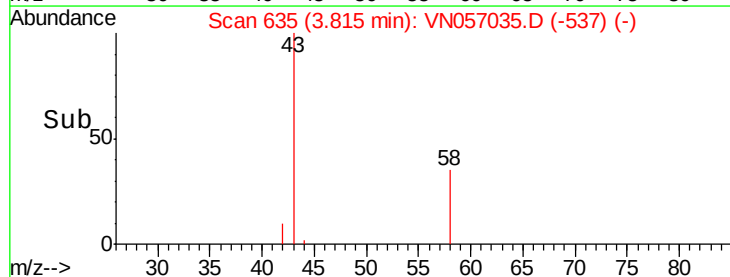
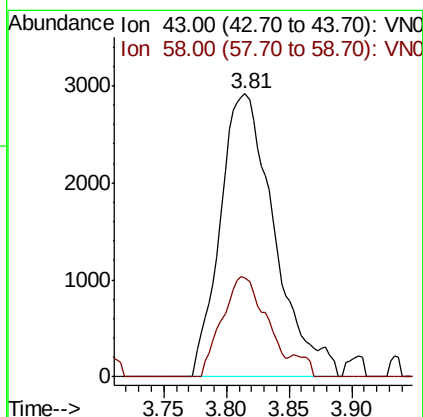
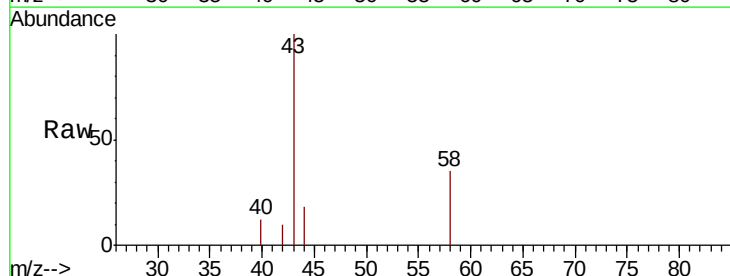
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-DUP-20190729

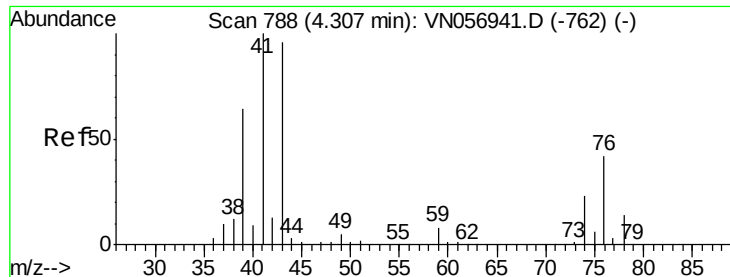
Tot Ion: 41 Resp: 2358
Ion Ratio Lower Upper
41 100
39 86.6 46.4 69.6#
76 0.0 28.4 42.6#



#16
Acetone
Concen: 4.133 ug/l
RT: 3.81 min Scan# 635
Delta R.T. 0.02 min
Lab File: VN057035.D
Acq: 1 Aug 2019 14:25

Tgt Ion: 43 Resp: 8756
Ion Ratio Lower Upper
43 100
58 35.2 27.2 40.8

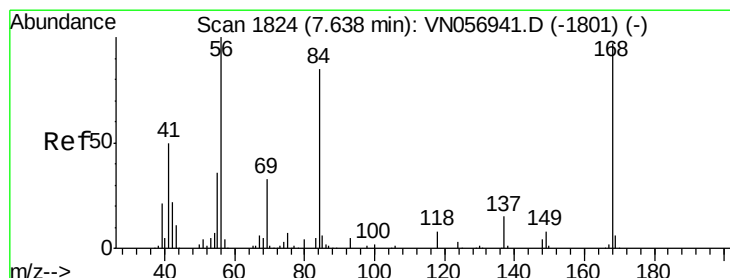
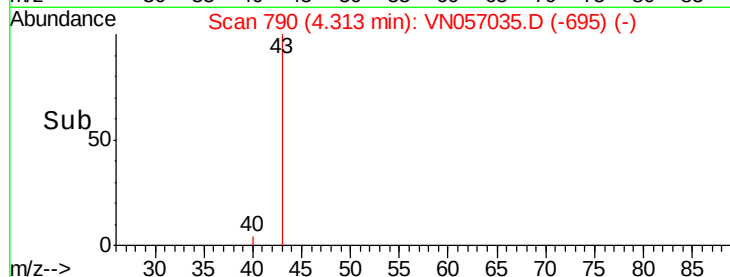
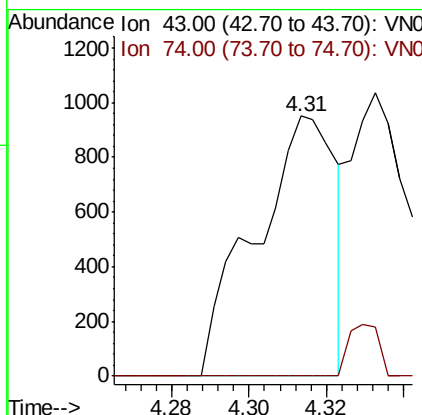
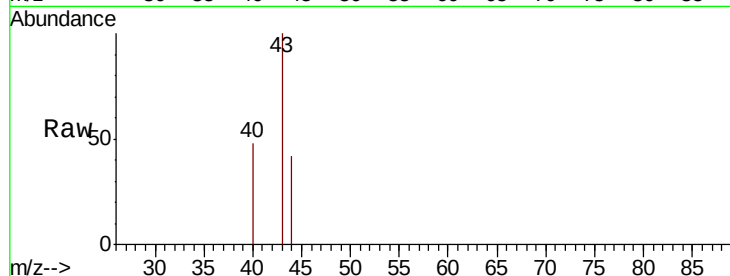




#18
Methvl Acetate
Concen: 0.203 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057035.D
Acq: 1 Aug 2019 14:25

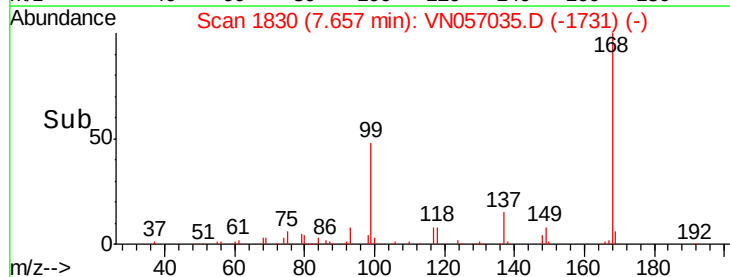
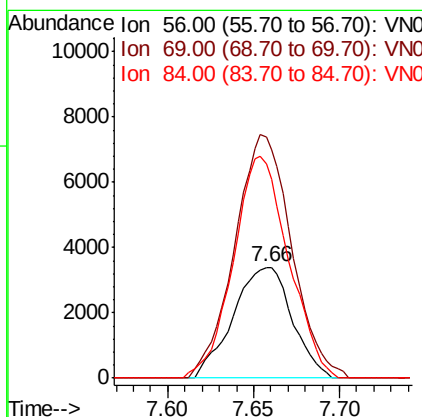
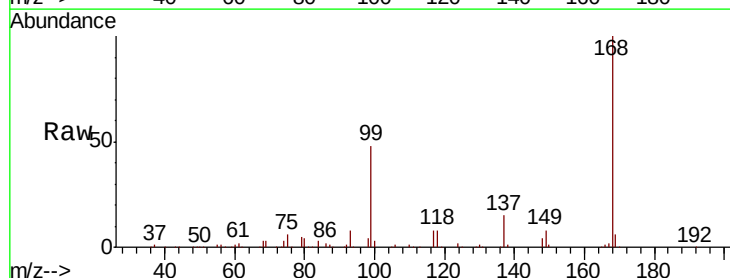
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB203-DUP-20190729

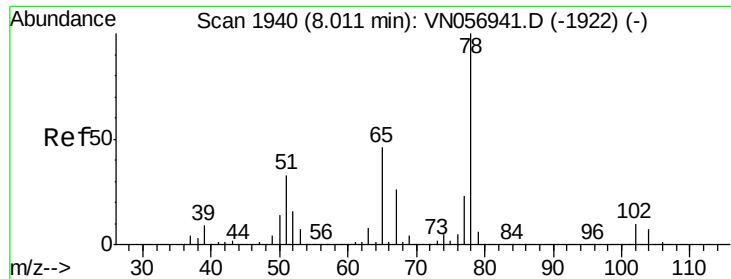
Tot Ion: 43 Resp: 1371
Ion Ratio Lower Upper
43 100
74 0.0 19.7 29.5#



#31
Cyclohexane
Concen: 0.845 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.02 min
Lab File: VN057035.D
Acq: 1 Aug 2019 14:25

Tgt Ion: 56 Resp: 8119
Ion Ratio Lower Upper
56 100
69 218.1 26.2 39.2#
84 193.7 68.2 102.2#

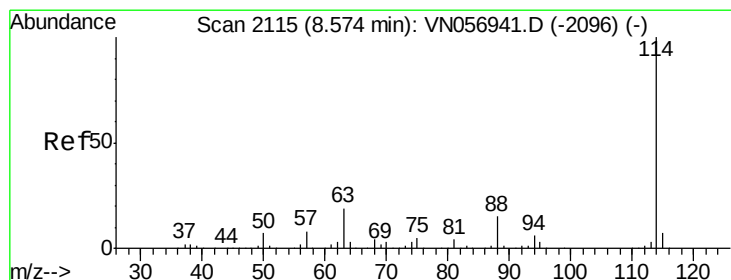
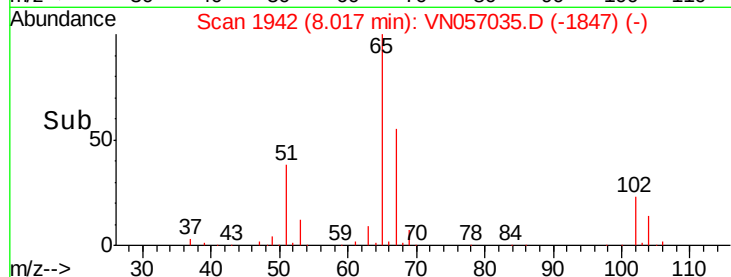
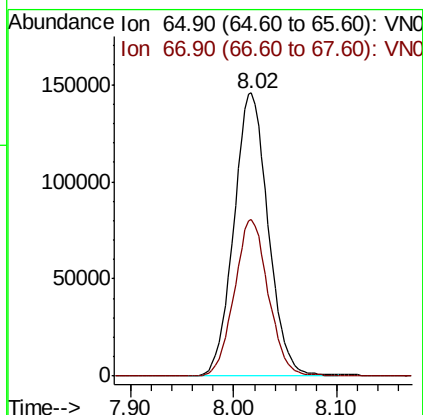
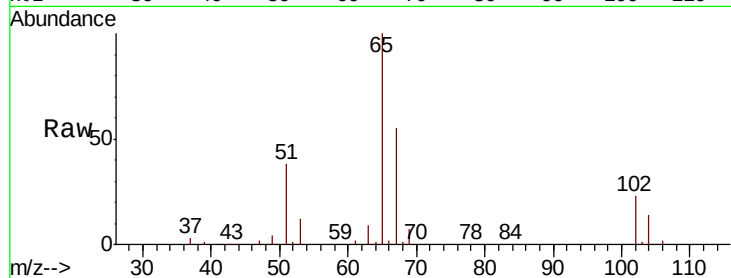




#33
 1,2-Dichloroethane-d4
 Concen: 57.731 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.01 min
 Lab File: VN057035.D
 Acq: 1 Aug 2019 14:25

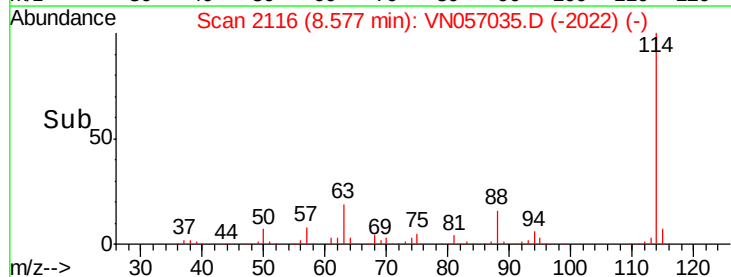
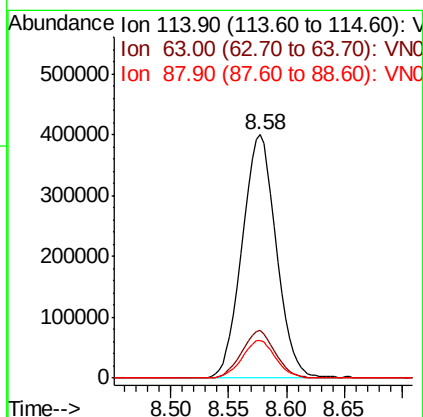
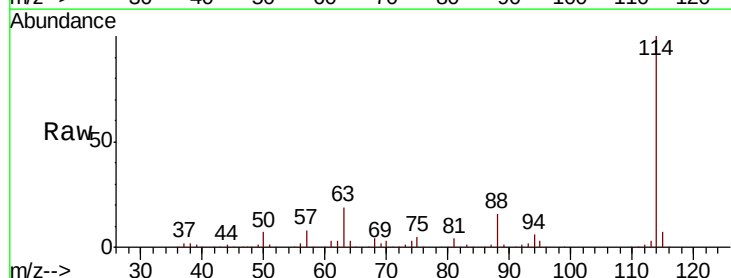
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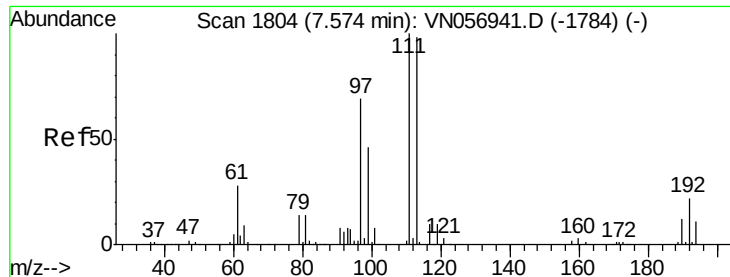
Tot Ion: 65 Resp: 337585
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057035.D
 Acq: 1 Aug 2019 14:25

Tgt Ion: 114 Resp: 823590
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 38.0
 88 15.5 0.0 30.0





#35

Dibromofluoromethane

Concen: 57.426 ug/l

RT: 7.58 min Scan# 1806

Delta R.T. 0.01 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-DUP-20190729

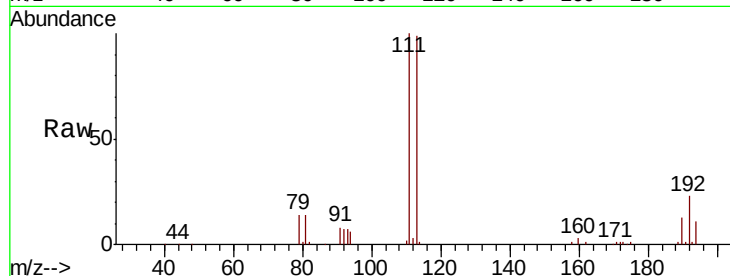
Tot Ion:113 Resp: 302772

Ion Ratio Lower Upper

113 100

111 103.4 82.0 123.0

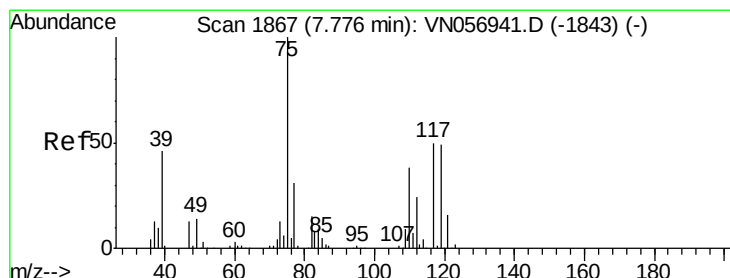
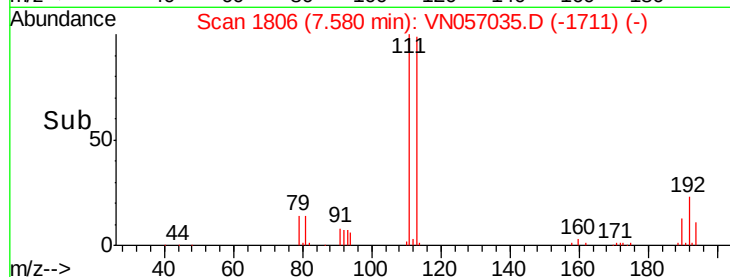
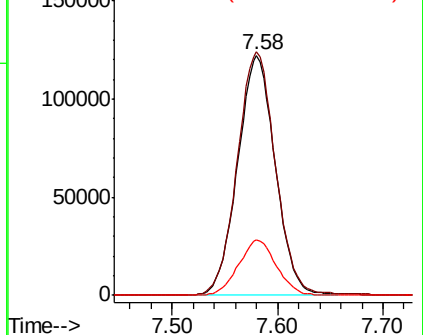
192 23.3 18.4 27.6



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: 4.923 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.12 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

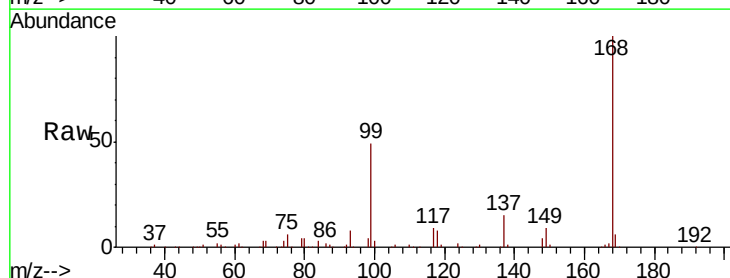
Tgt Ion: 75 Resp: 35676

Ion Ratio Lower Upper

75 100

110 8.5 18.6 55.8#

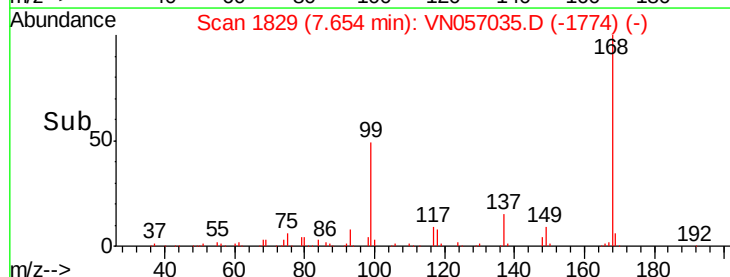
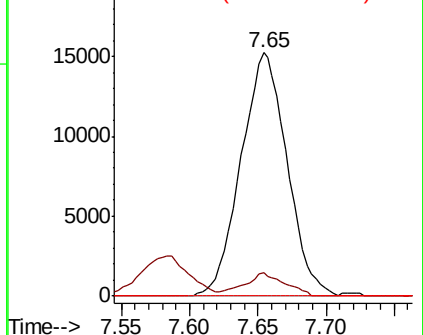
77 0.0 25.2 37.8#

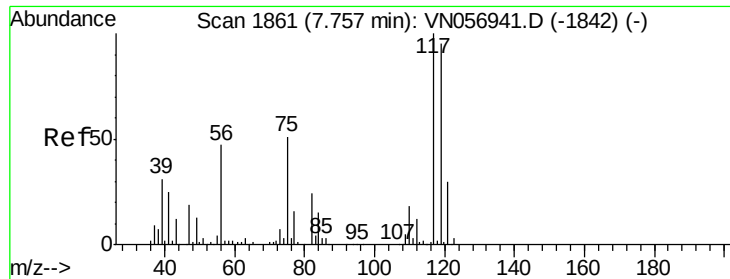


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 7.150 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

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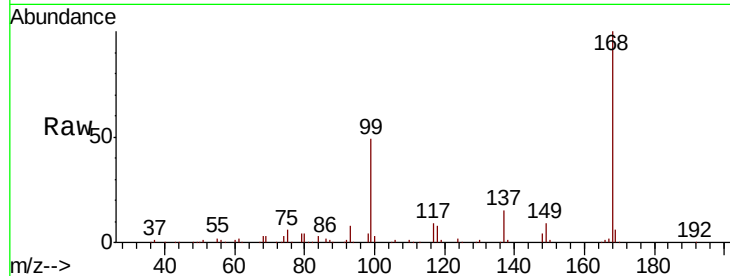
Tot Ion:117 Resp: 49015

Ion Ratio Lower Upper

117 100

119 5.7 75.3 112.9#

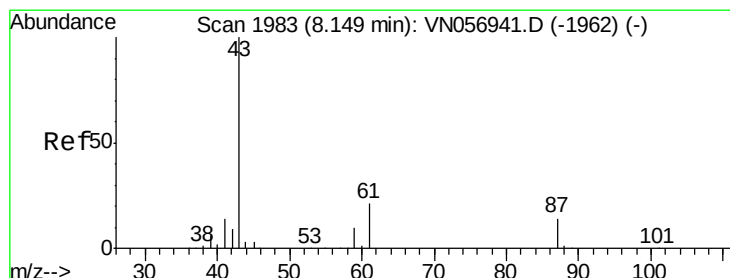
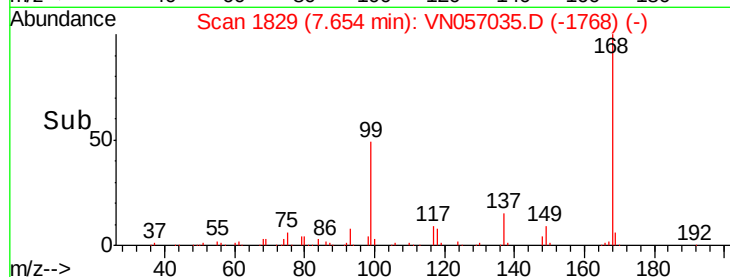
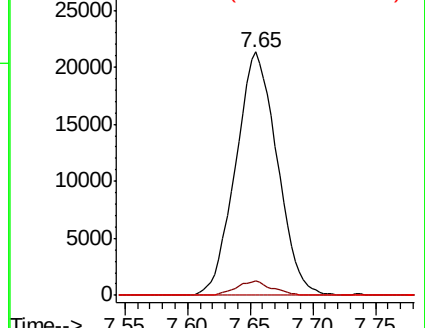
121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 0.601 ug/l

RT: 8.24 min Scan# 2011

Delta R.T. 0.09 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

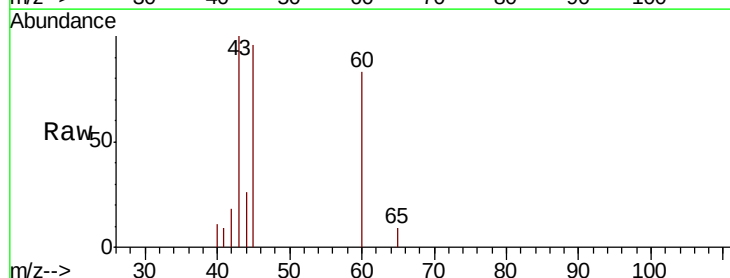
Tgt Ion: 43 Resp: 5769

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

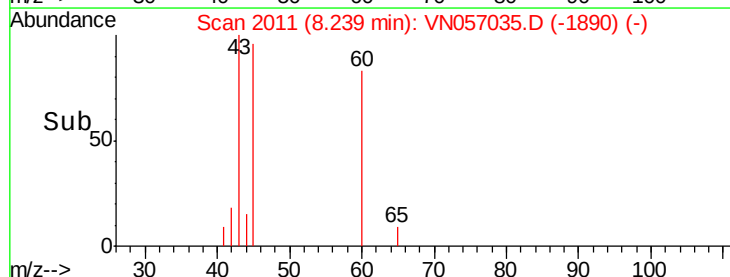
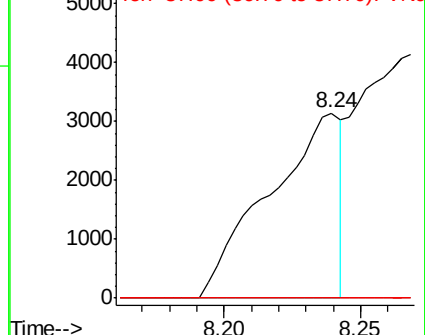
87 0.0 11.7 17.5#

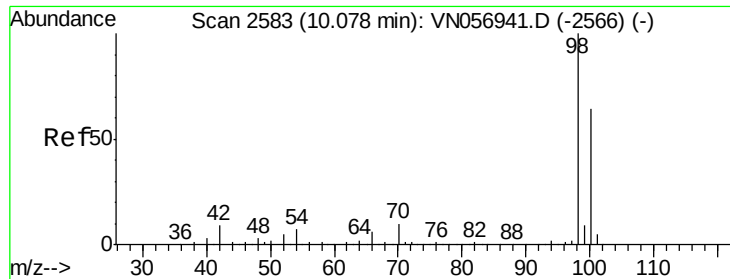


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 57.004 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

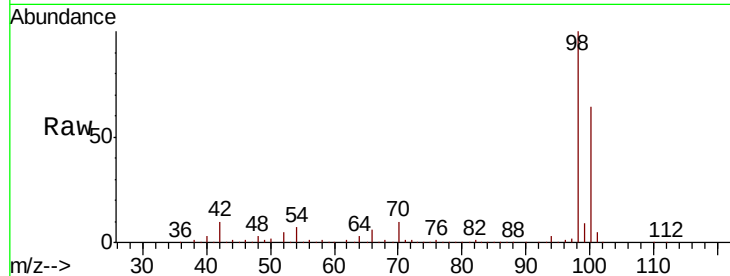
BP-VPB203-DUP-20190729

Tot Ion: 98 Resp: 1146113

Ion Ratio Lower Upper

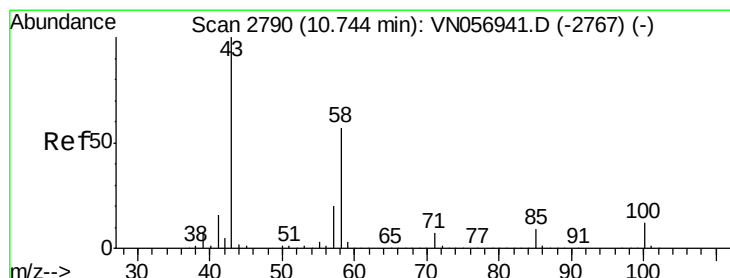
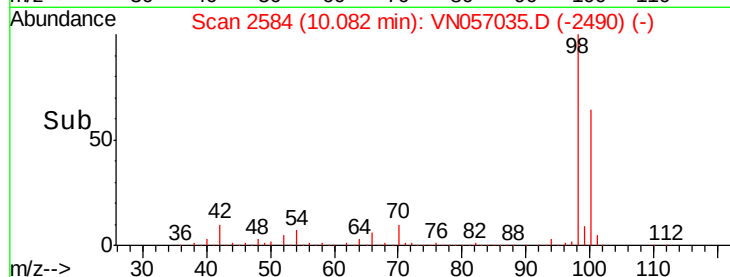
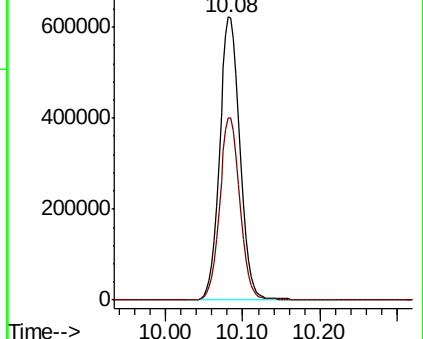
98 100

100 64.0 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#59

2-Hexanone

Concen: 2.659 ug/l

RT: 10.75 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VN057035.D

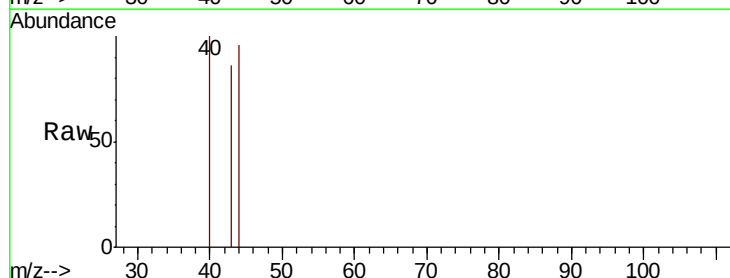
Acq: 1 Aug 2019 14:25

Tgt Ion: 43 Resp: 705

Ion Ratio Lower Upper

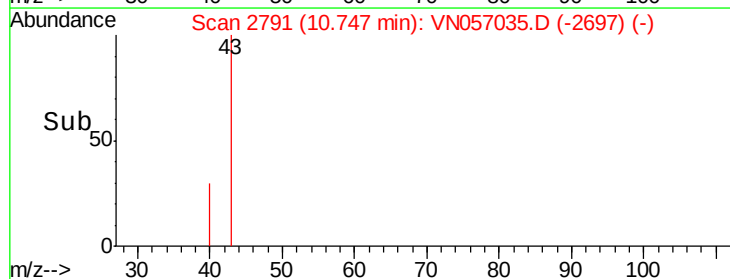
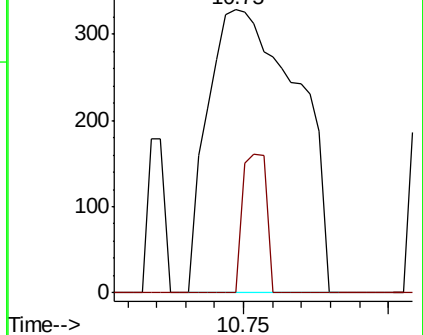
43 100

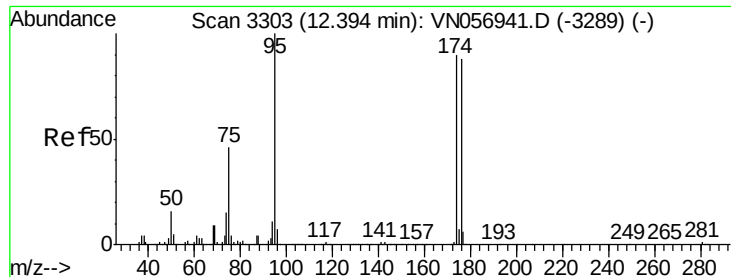
58 12.9 28.5 85.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.150 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-DUP-20190729

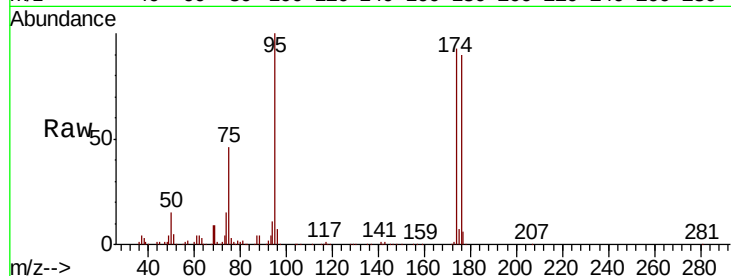
Tot Ion: 95 Resp: 288980

Ion Ratio Lower Upper

95 100

174 94.6 0.0 182.2

176 90.1 0.0 179.4



Abundance Ion 94.90 (94.60 to 95.60): VN056941.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN056941.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN056941.D (-3289) (-)

12.40

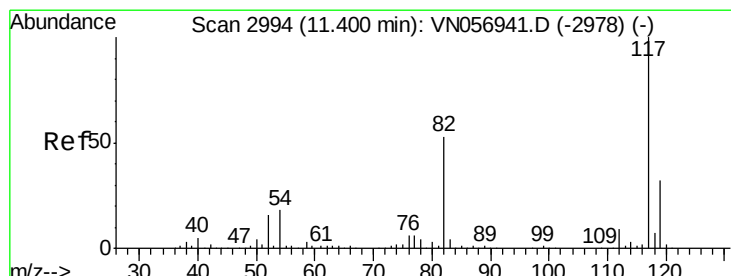
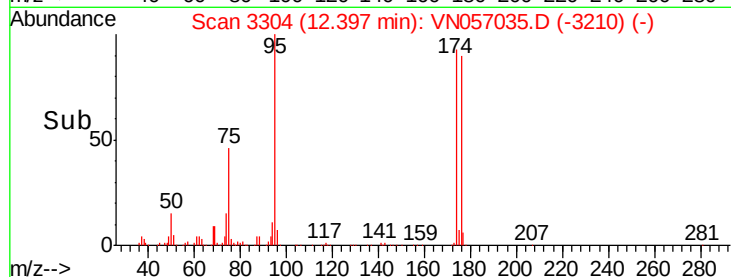
150000

100000

50000

0

Time--> 12.30 12.35 12.40 12.45



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

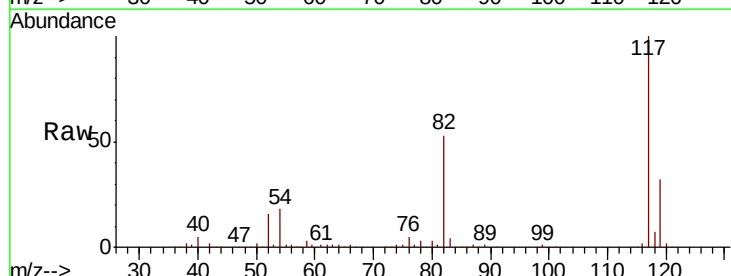
Tgt Ion: 117 Resp: 670581

Ion Ratio Lower Upper

117 100

82 53.5 42.2 63.4

119 32.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN056941.D (-2978) (-)

Ion 82.00 (81.70 to 82.70): VN056941.D (-2978) (-)

Ion 118.90 (118.60 to 119.60): VN056941.D (-2978) (-)

11.40

500000

400000

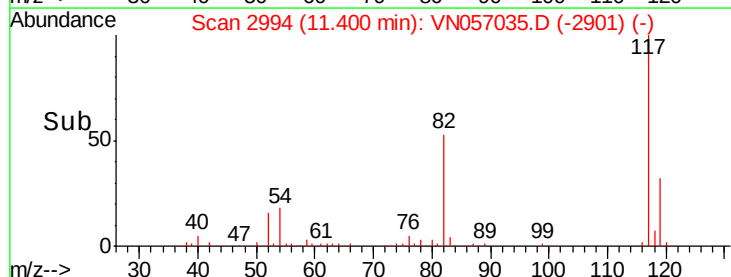
300000

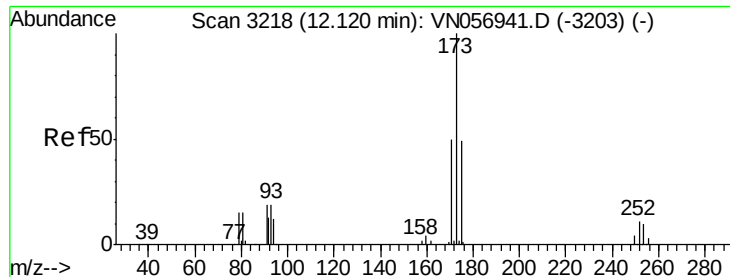
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.616 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-DUP-20190729

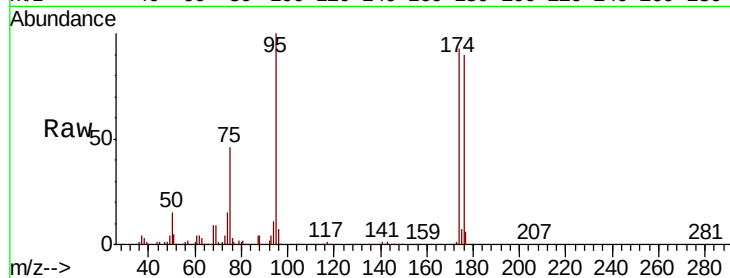
Tot Ion:173 Resp: 2212

Ion Ratio Lower Upper

173 100

175 736.2 24.1 72.4#

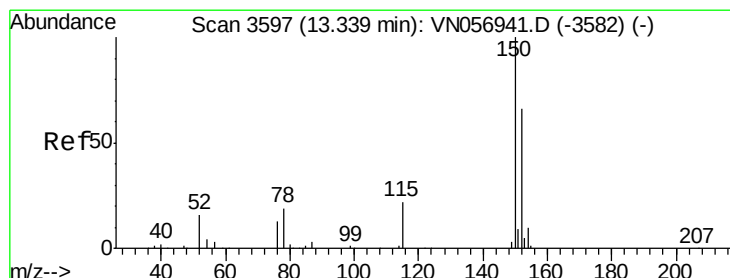
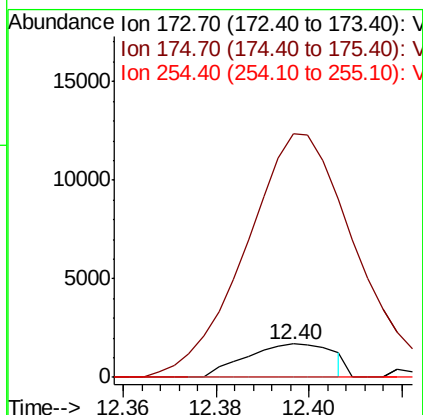
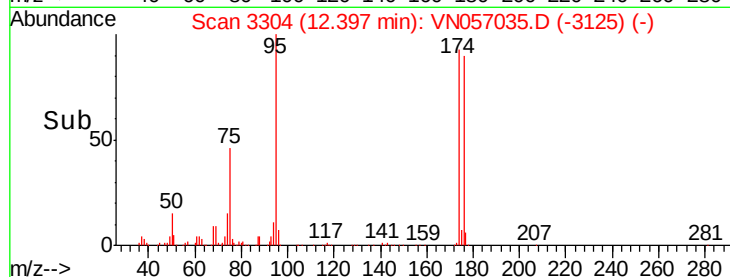
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

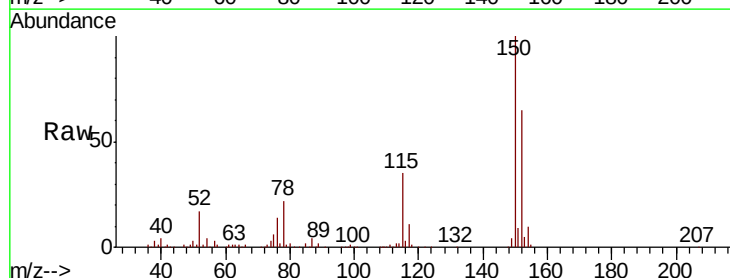
Tgt Ion:152 Resp: 176279

Ion Ratio Lower Upper

152 100

115 54.7 28.2 84.6

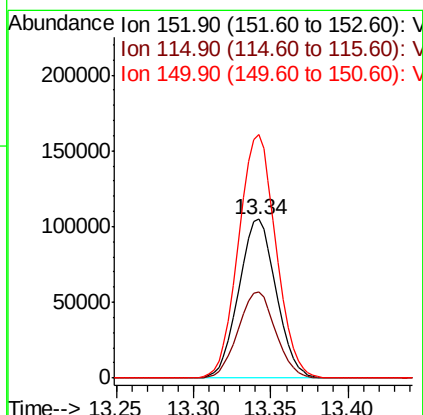
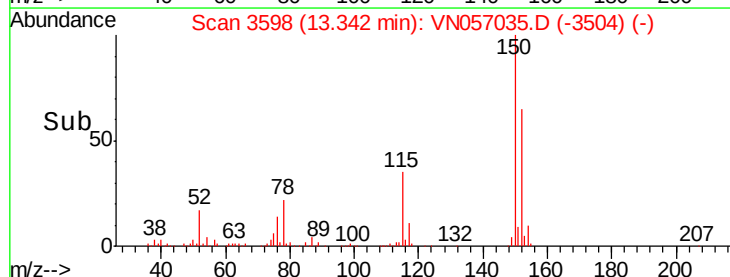
150 153.6 0.0 349.4

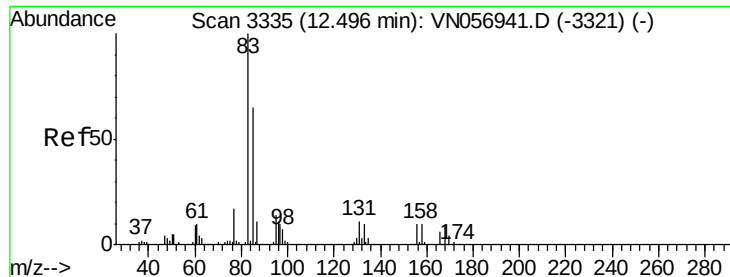


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-DUP-20190729

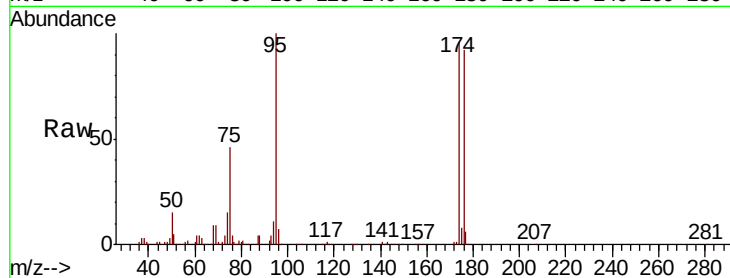
Tot Ion: 83 Resp: 66

Ion Ratio Lower Upper

83 100

131 0.0 5.3 16.1#

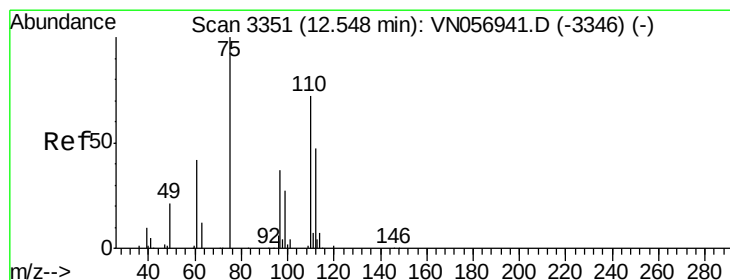
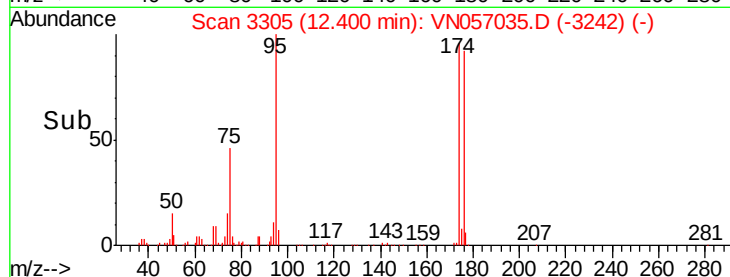
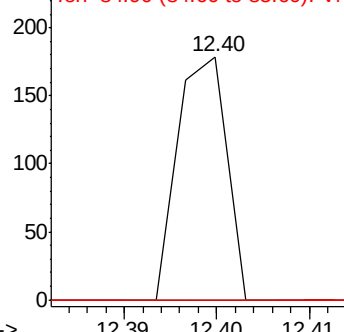
85 0.0 32.5 97.4#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 36.895 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057035.D

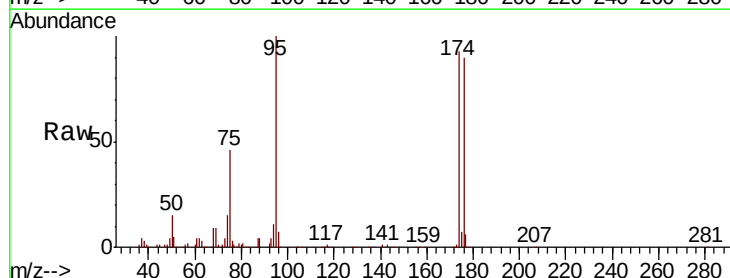
Acq: 1 Aug 2019 14:25

Tgt Ion: 75 Resp: 132082

Ion Ratio Lower Upper

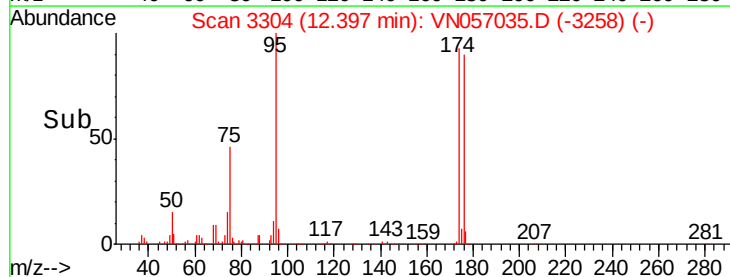
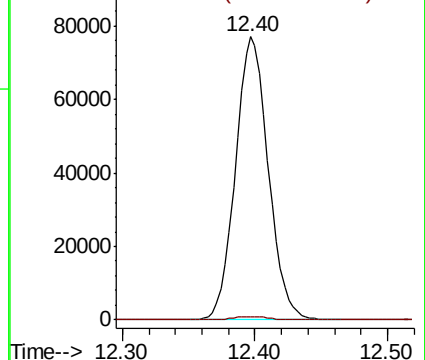
75 100

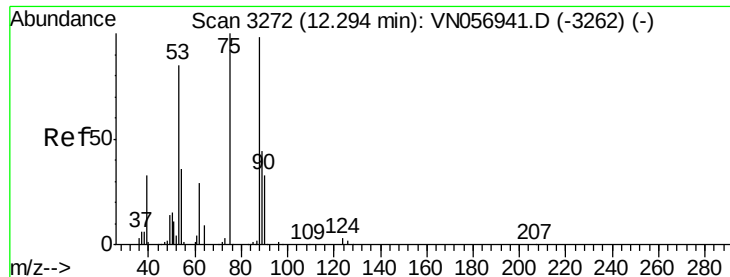
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 118.543 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-DUP-20190729

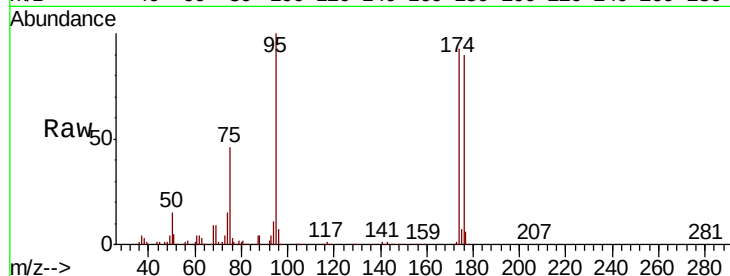
Tot Ion: 75 Resp: 132082

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

89 0.0 35.8 53.6#

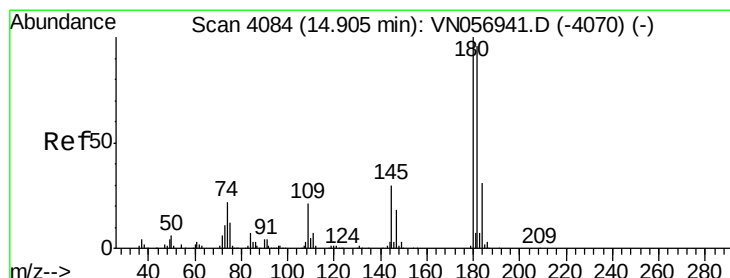
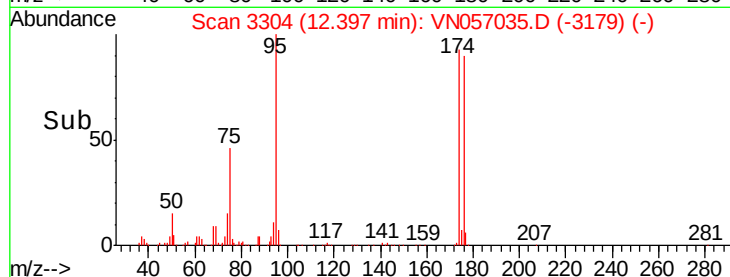
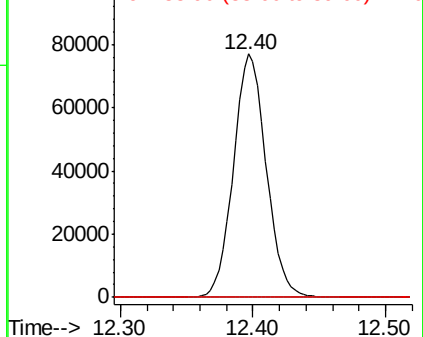


Abundance

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: 2.840 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

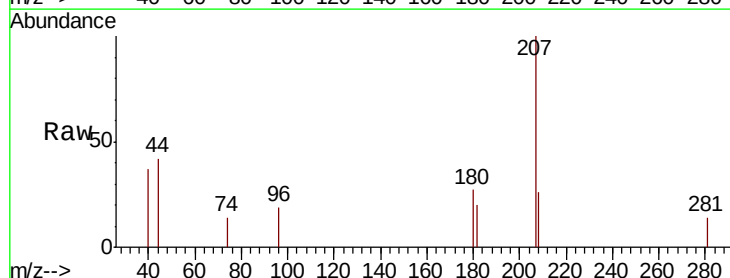
Tgt Ion: 180 Resp: 418

Ion Ratio Lower Upper

180 100

182 49.5 47.6 142.8

145 0.0 14.2 42.8#

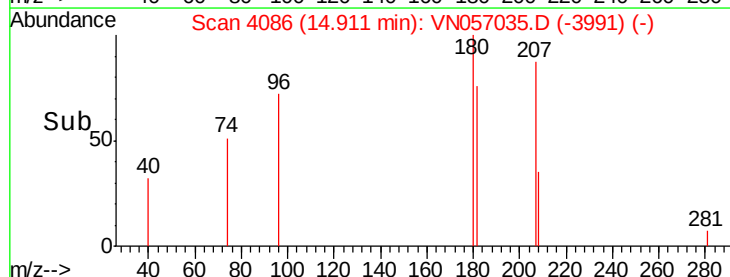
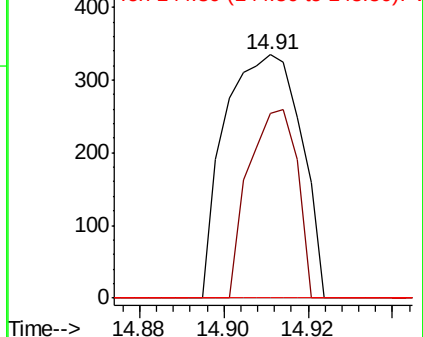


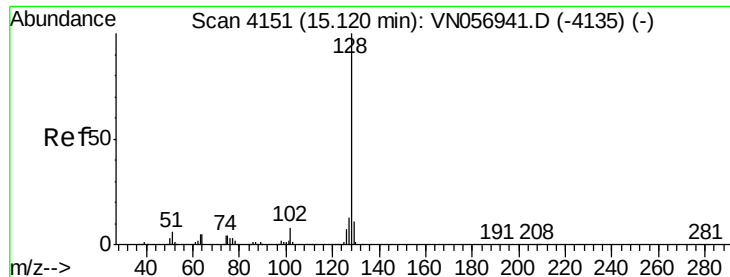
Abundance

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: 3.658 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. 0.01 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB203-DUP-20190729

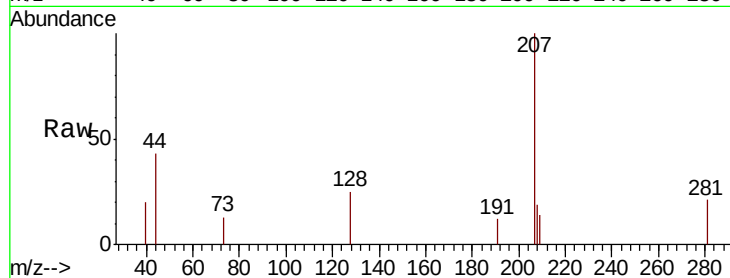
Tot Ion:128 Resp: 567

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



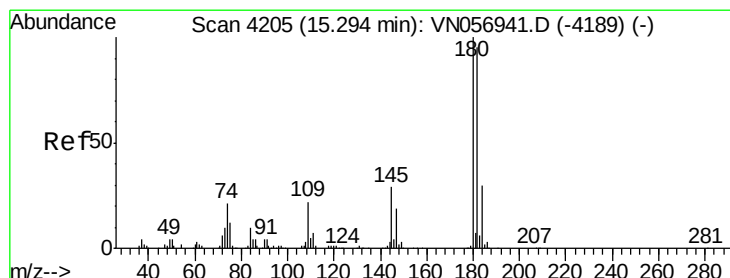
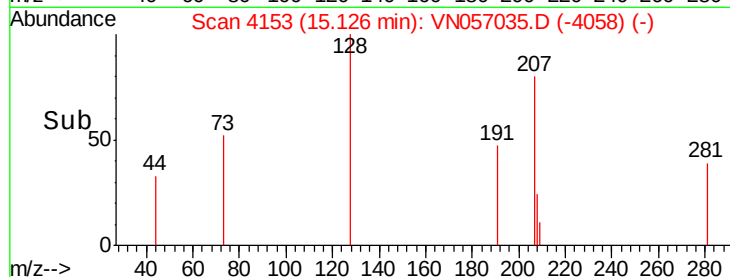
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.13

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.092 ug/l

RT: 15.28 min Scan# 4201

Delta R.T. -0.01 min

Lab File: VN057035.D

Acq: 1 Aug 2019 14:25

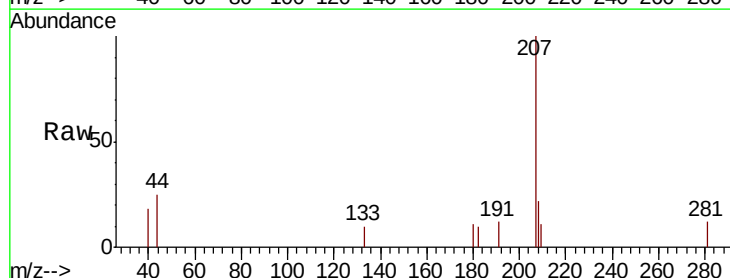
Tgt Ion:180 Resp: 136

Ion Ratio Lower Upper

180 100

182 350.0 48.0 144.2#

145 0.0 15.0 45.0#



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

15.28

Time-->

