

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111119\
 Data File : VN059156.D
 Acq On : 11 Nov 2019 13:25
 Operator : JC/SP
 Sample : K5769-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-2-SRI4

Quant Time: Nov 12 00:41:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	455958	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	709320	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	602934	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	205821	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	298874	53.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.64%	
35) Dibromofluoromethane	7.57	113	223867	52.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.72%	
50) Toluene-d8	10.08	98	873975	52.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.78%	
62) 4-Bromofluorobenzene	12.40	95	268631	44.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.32%	

Target Compounds

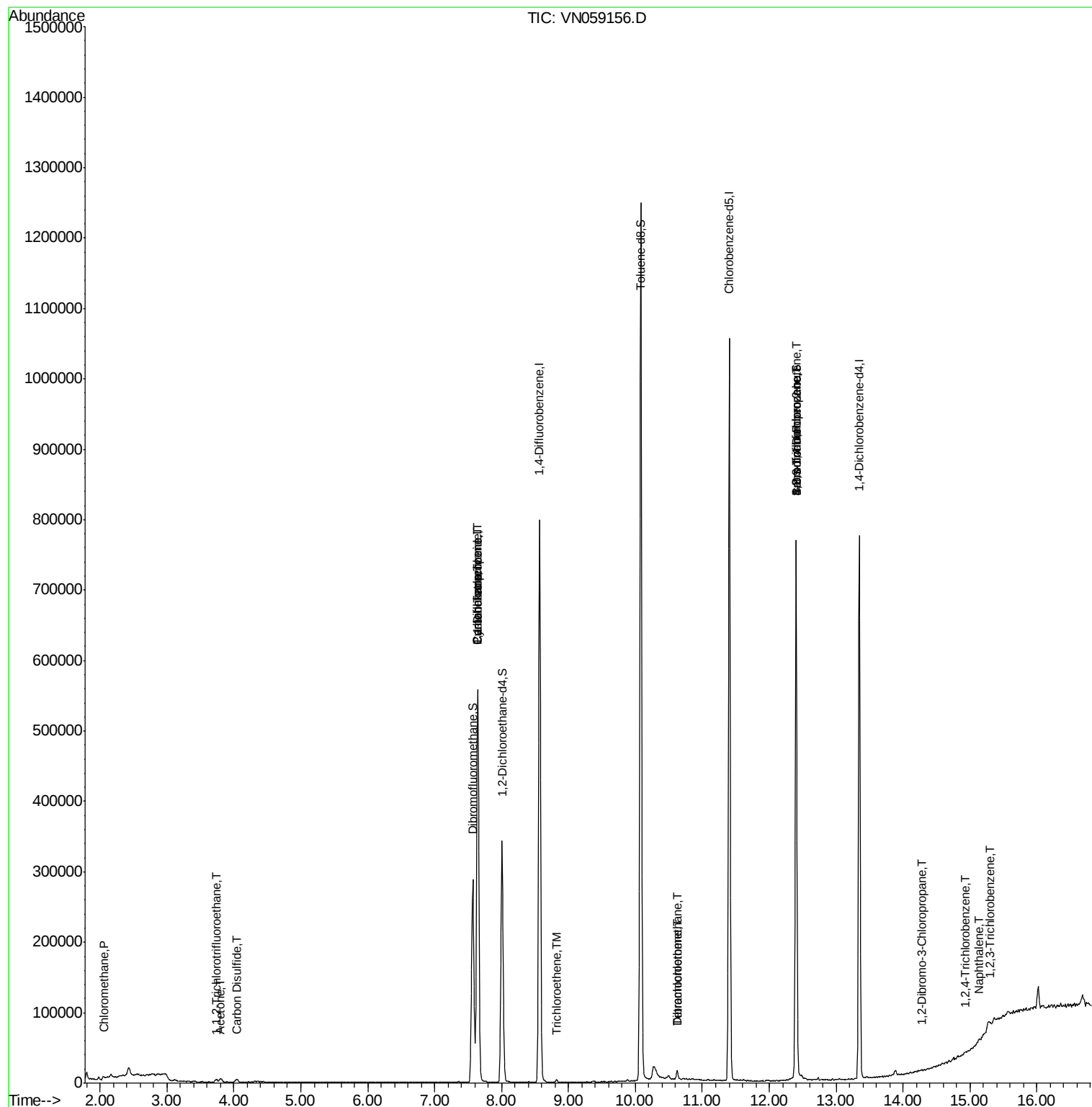
					Qvalue	
3) Chloromethane	2.05	50	1273	0.204	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	3.73	101	2671	0.612	ug/l #	55
16) Acetone	3.80	43	7815	2.681	ug/l	100
17) Carbon Disulfide	4.03	76	4217	0.319	ug/l #	90
31) Cyclohexane	7.64	56	9993	1.145	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	35772	5.395	ug/l #	50
38) Carbon Tetrachloride	7.64	117	44118	6.686	ug/l #	17
44) Trichloroethene	8.82	130	1501	0.306	ug/l	95
60) Dibromochloromethane	10.63	129	2661	0.520	ug/l #	11
64) Tetrachloroethene	10.62	164	3117	0.760	ug/l	86
71) Bromoform	12.40	173	1714	0.500	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	136814	29.197	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	136814	77.118	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.29	75	371	0.391	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.92	180	648	3.205	ug/l #	64
95) Naphthalene	15.13	128	2631	3.277	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.30	180	995	0.280	ug/l #	75

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

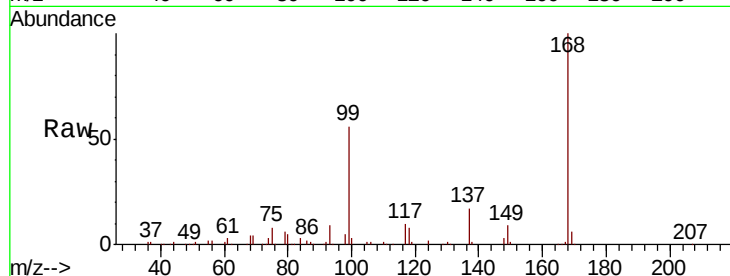
DUP-2-SRI4

Tot Ion:168 Resp: 455958

Ion Ratio Lower Upper

168 100

99 55.8 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059095.D

Ion 98.90 (98.60 to 99.60): VN059095.D

7.64

200000

150000

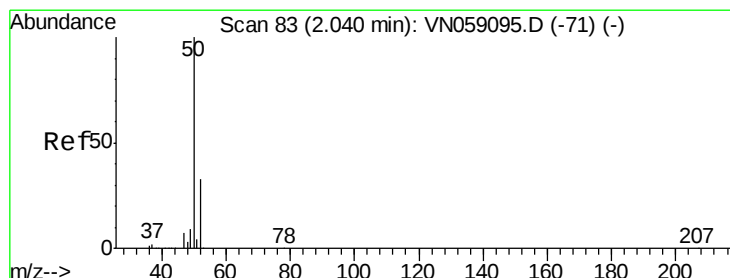
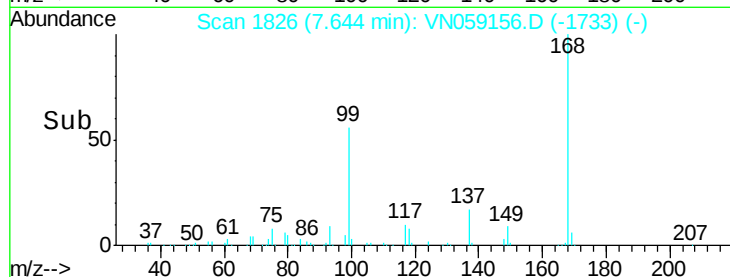
100000

50000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: 0.204 ug/l

RT: 2.05 min Scan# 85

Delta R.T. 0.01 min

Lab File: VN059156.D

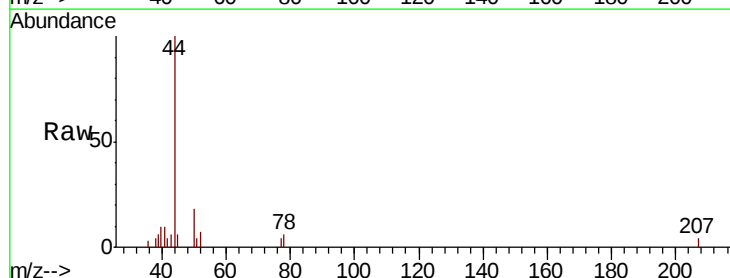
Acq: 11 Nov 2019 13:25

Tgt Ion: 50 Resp: 1273

Ion Ratio Lower Upper

50 100

52 37.5 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN059095.D

Ion 51.90 (51.60 to 52.60): VN059095.D

2.05

1000

800

600

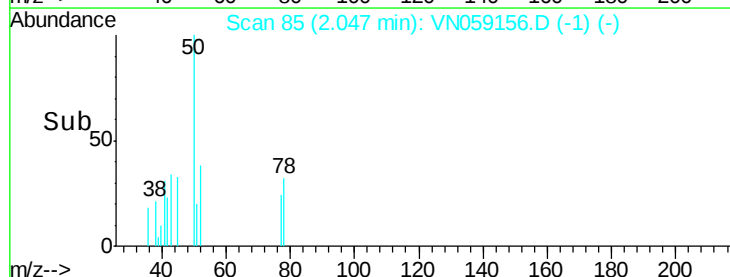
400

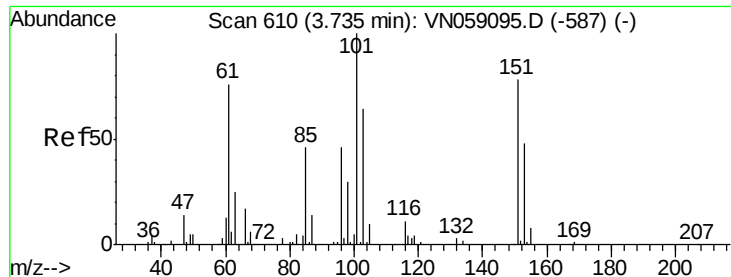
200

0

2.00 2.02 2.04 2.06 2.08

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.612 ug/l

RT: 3.73 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

Instrument :

MSVOA_N

ClientSampled :

DUP-2-SRI4

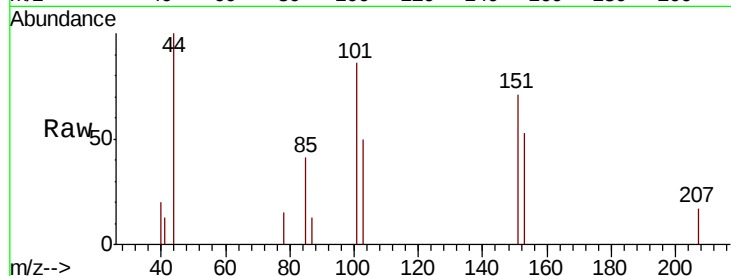
Tot Ion:101 Resp: 2671

Ion Ratio Lower Upper

101 100

85 0.0 35.5 53.3#

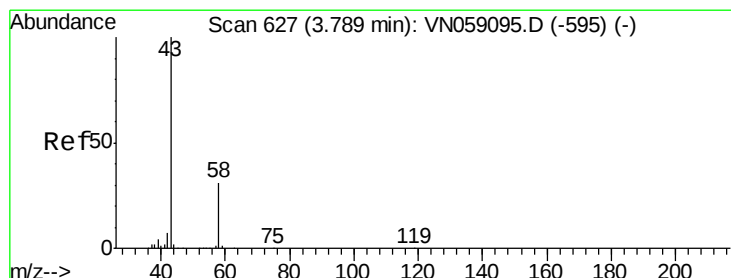
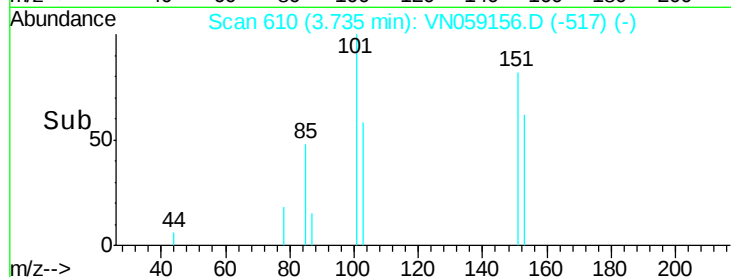
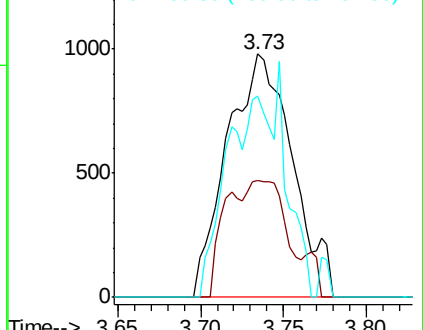
151 49.8 62.2 93.2#



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



#16

Acetone

Concen: 2.681 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN059156.D

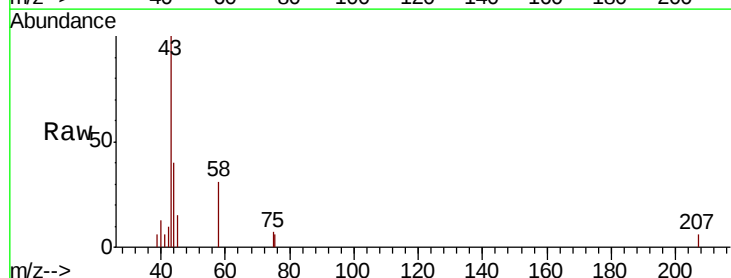
Acq: 11 Nov 2019 13:25

Tgt Ion: 43 Resp: 7815

Ion Ratio Lower Upper

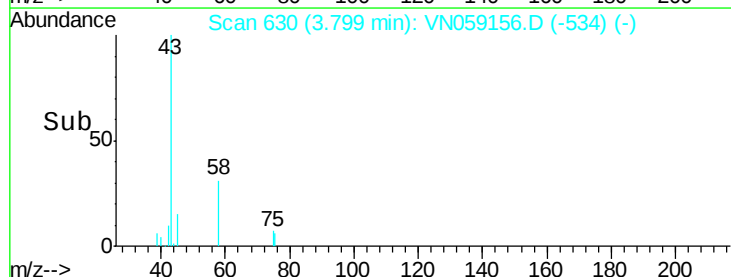
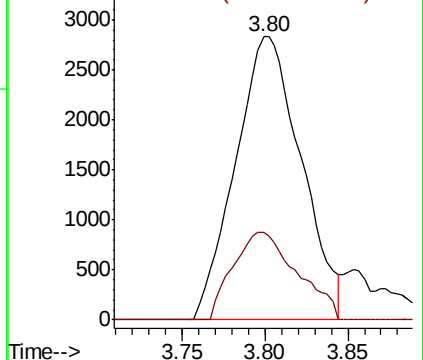
43 100

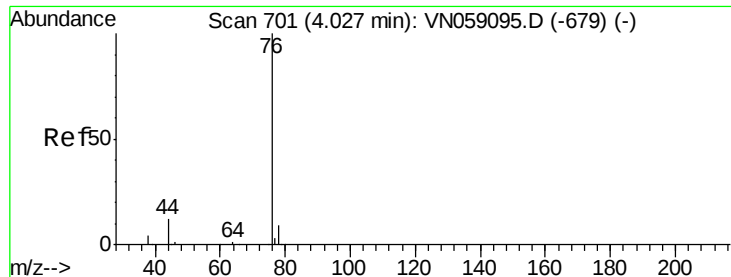
58 30.9 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.319 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

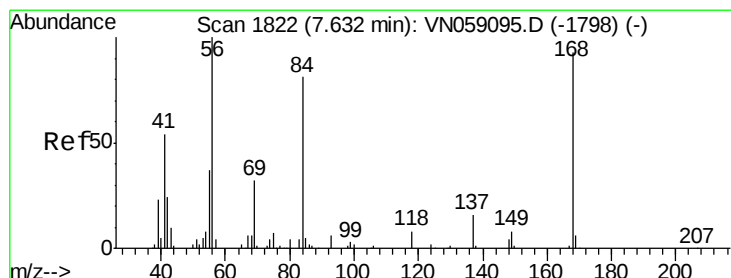
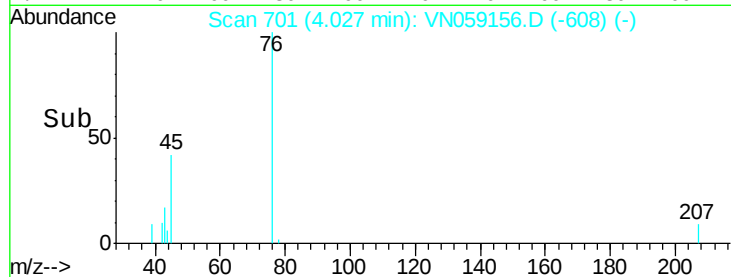
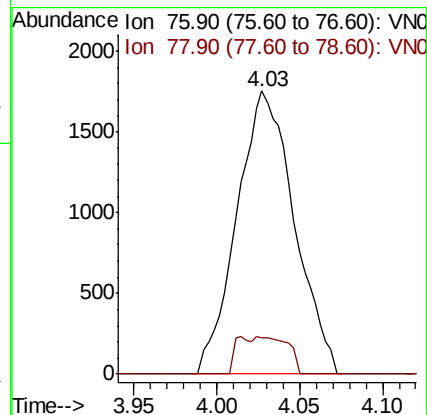
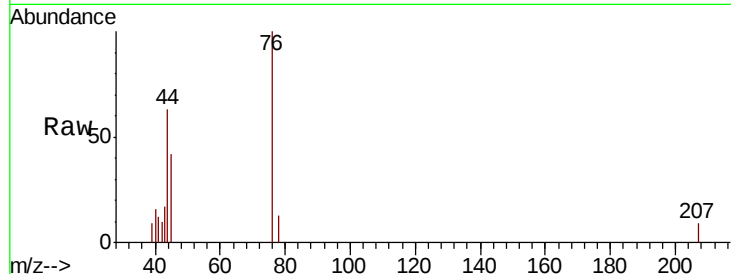
DUP-2-SRI4

Tot Ion: 76 Resp: 4217

Ion Ratio Lower Upper

76 100

78 12.9 7.4 11.0#



#31

Cyclohexane

Concen: 1.145 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

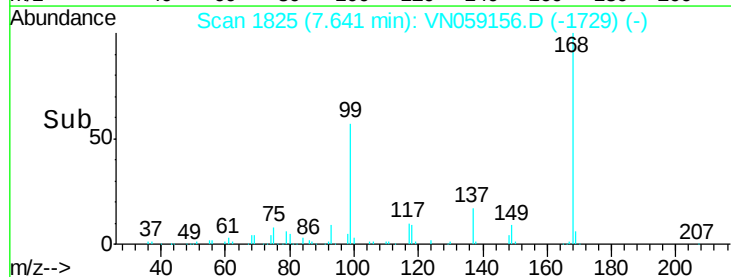
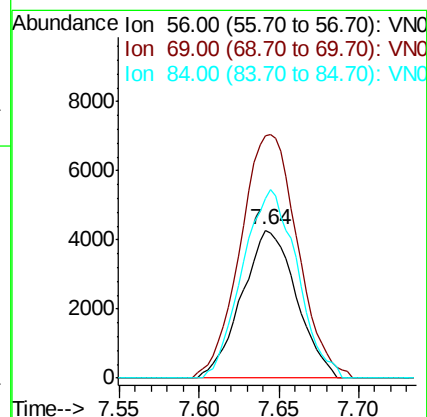
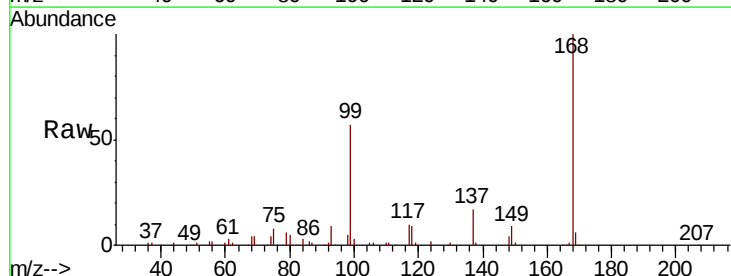
Tgt Ion: 56 Resp: 9993

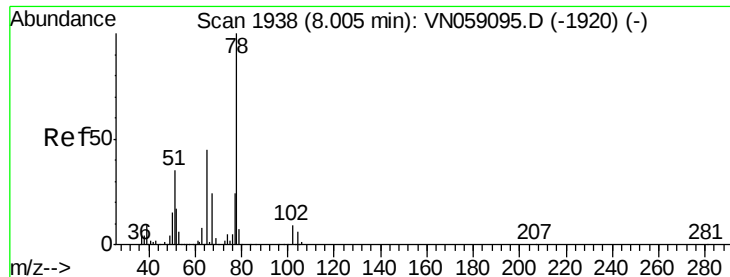
Ion Ratio Lower Upper

56 100

69 163.7 25.8 38.8#

84 121.5 65.0 97.4#

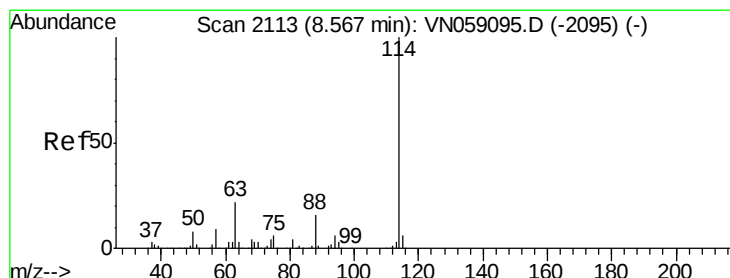
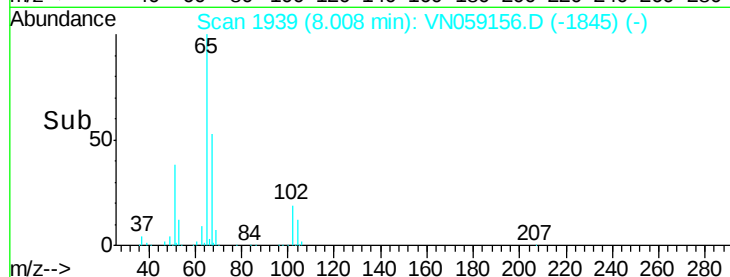
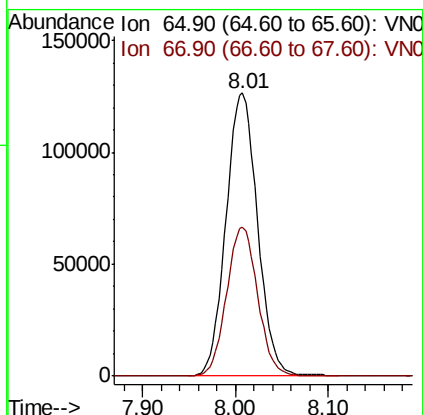
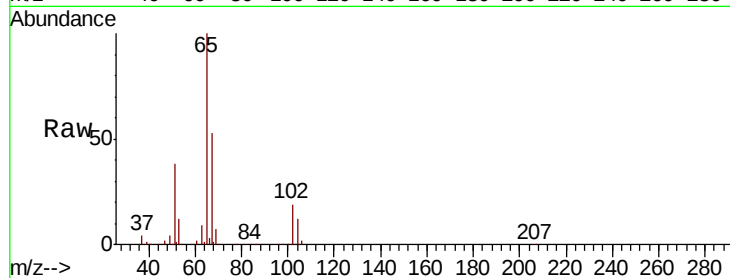




#33
 1,2-Dichloroethane-d4
 Concen: 53.324 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059156.D
 Acq: 11 Nov 2019 13:25

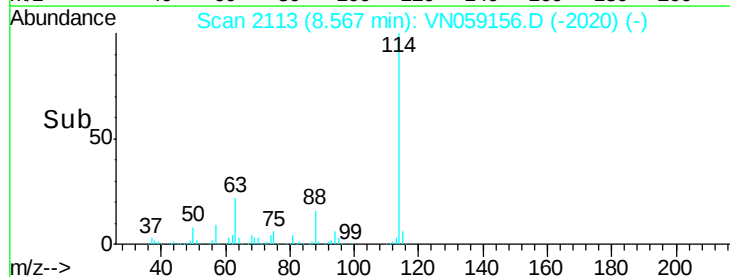
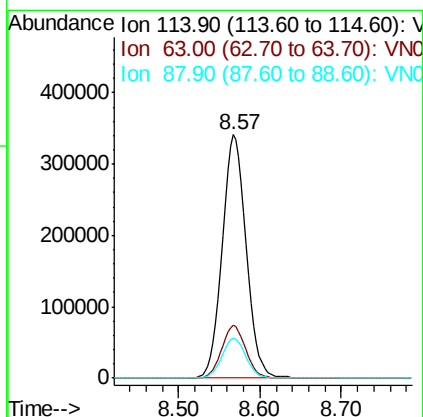
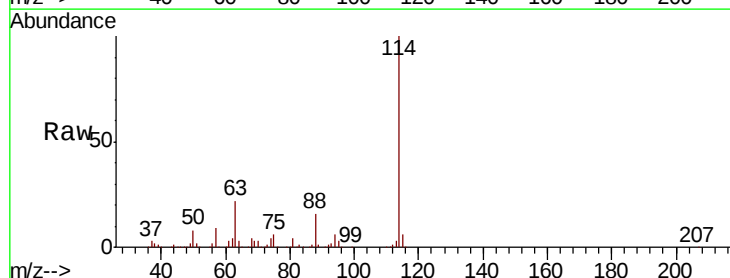
Instrument :
 MSVOA_N
 ClientSampled :
 DUP-2-SRI4

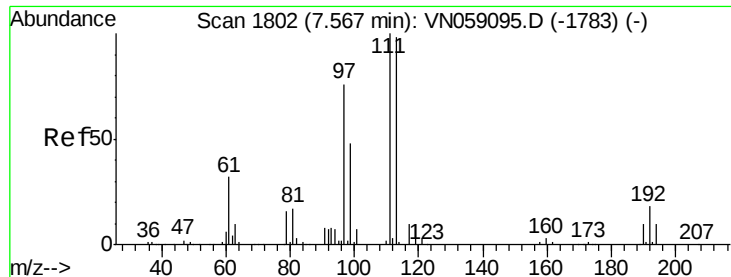
Tot Ion: 65 Resp: 298874
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059156.D
 Acq: 11 Nov 2019 13:25

Tgt Ion: 114 Resp: 709320
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.4
 88 16.4 0.0 32.2

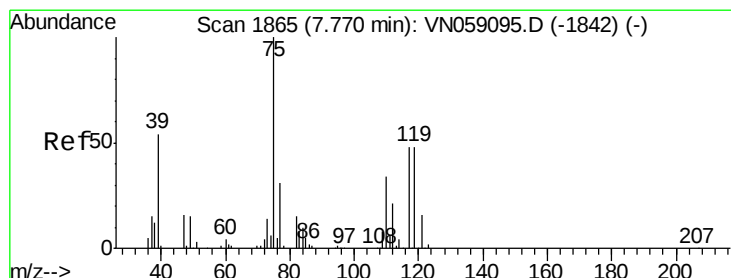
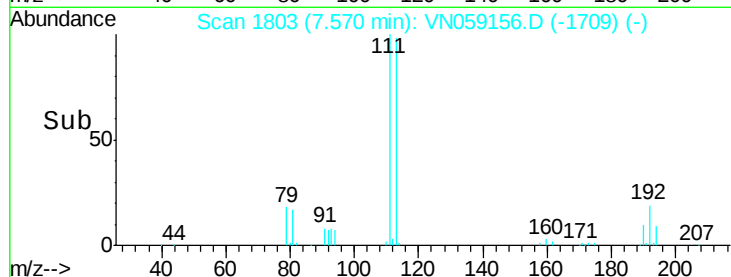
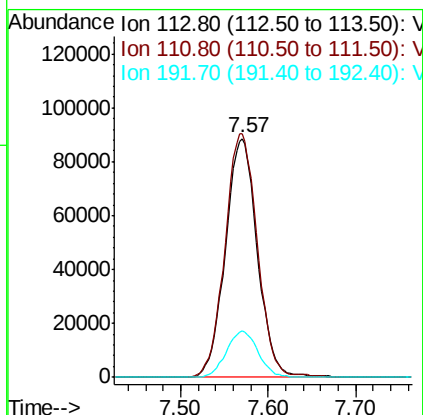
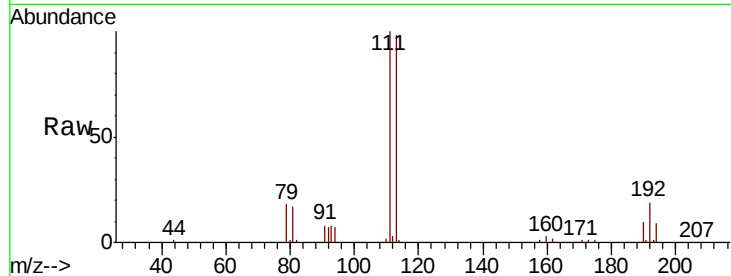




#35
Dibromofluoromethane
Concen: 52.857 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059156.D
Acq: 11 Nov 2019 13:25

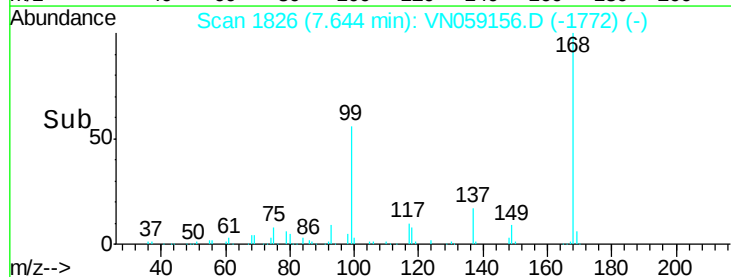
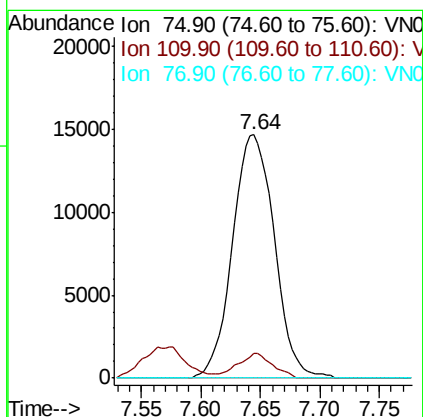
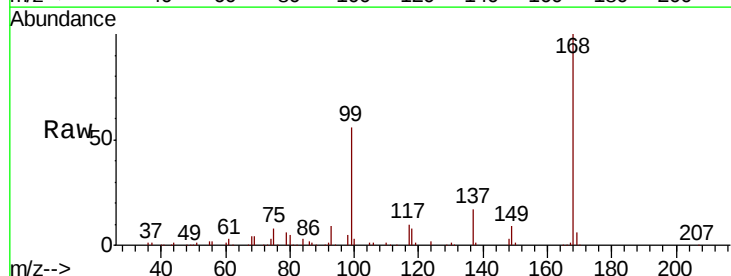
Instrument :
MSVOA_N
ClientSampleId :
DUP-2-SRI4

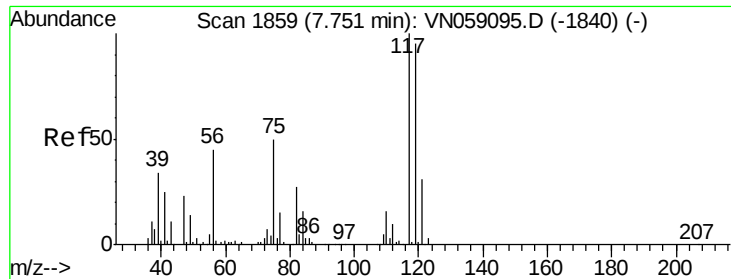
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.8	124.2
192	19.4	16.1	24.1



#36
1,1-Dichloropropene
Concen: 5.395 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.13 min
Lab File: VN059156.D
Acq: 11 Nov 2019 13:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.1	51.2#
77	0.0	24.8	37.2#

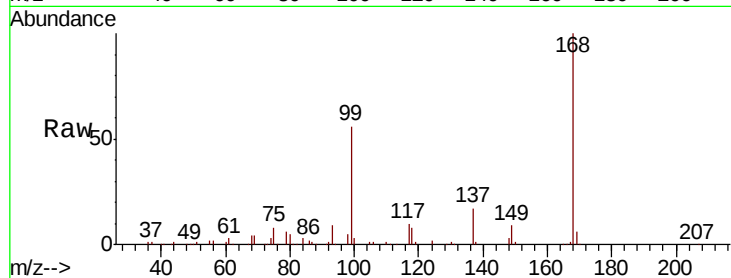




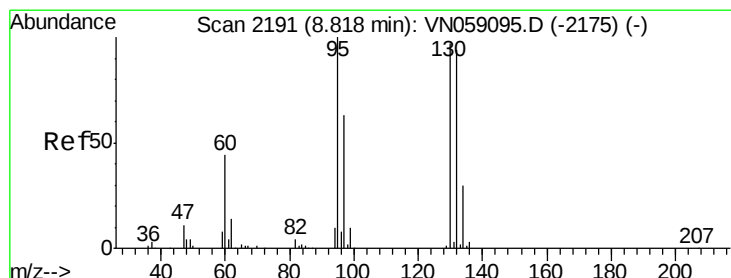
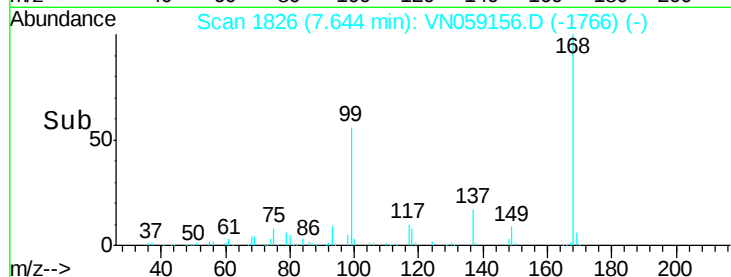
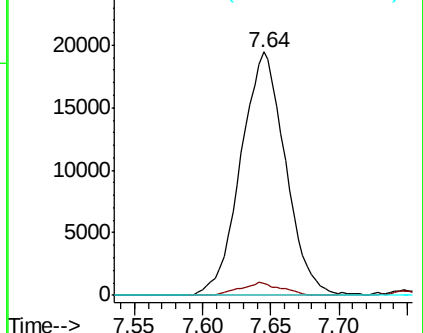
#38
Carbon Tetrachloride
Concen: 6.686 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059156.D
Acq: 11 Nov 2019 13:25

Instrument :
MSVOA_N
ClientSampled :
DUP-2-SRI4

Tot Ion:117 Resp: 44118
Ion Ratio Lower Upper
117 100
119 5.1 75.6 113.4#
121 0.0 24.6 36.8#

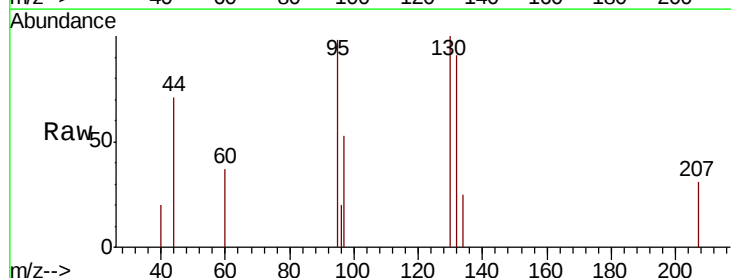


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

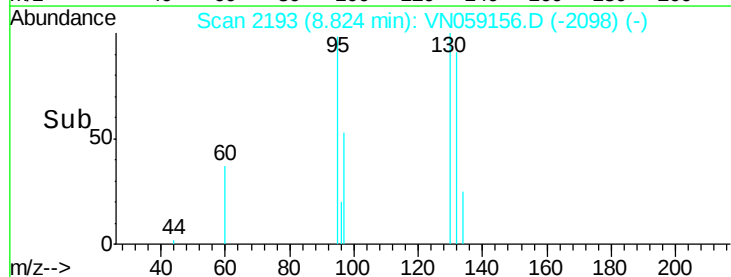
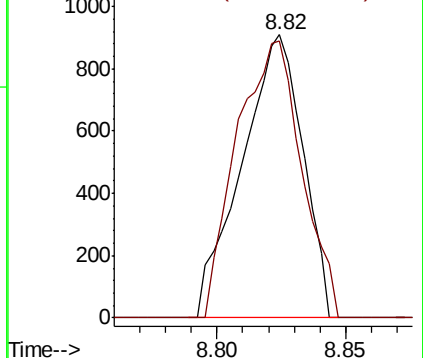


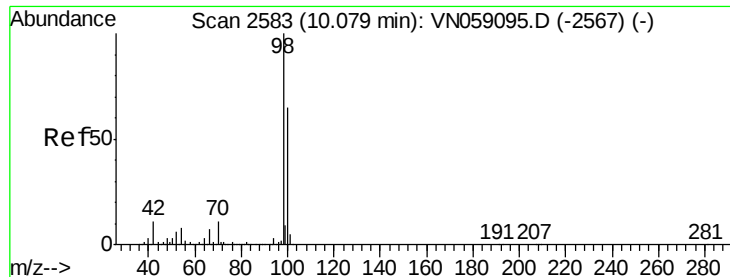
#44
Trichloroethene
Concen: 0.306 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. 0.01 min
Lab File: VN059156.D
Acq: 11 Nov 2019 13:25

Tgt Ion:130 Resp: 1501
Ion Ratio Lower Upper
130 100
95 98.0 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 52.388 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

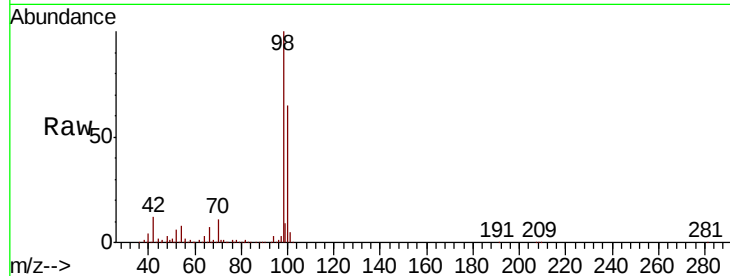
DUP-2-SRI4

Tot Ion: 98 Resp: 873975

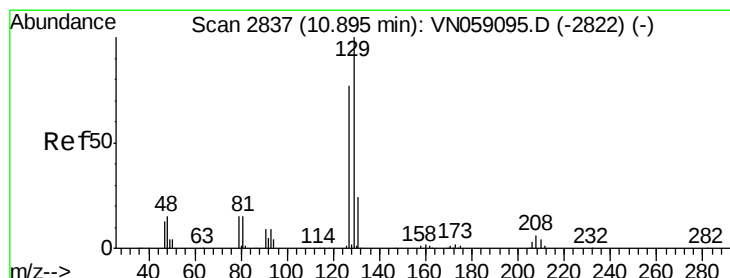
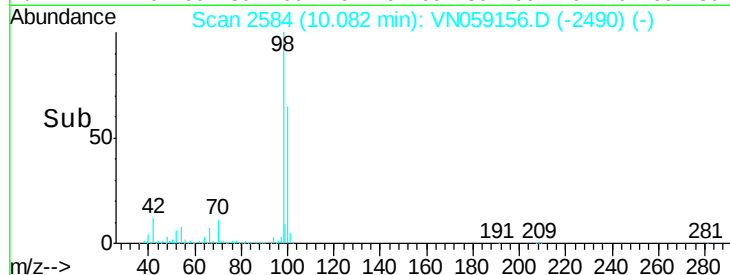
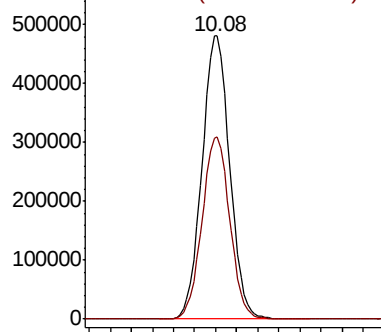
Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN059095.D (-2567) (-)



#60

Dibromochloromethane

Concen: 0.520 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.27 min

Lab File: VN059156.D

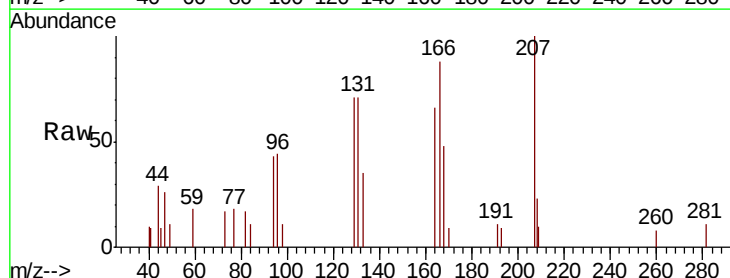
Acq: 11 Nov 2019 13:25

Tgt Ion: 129 Resp: 2661

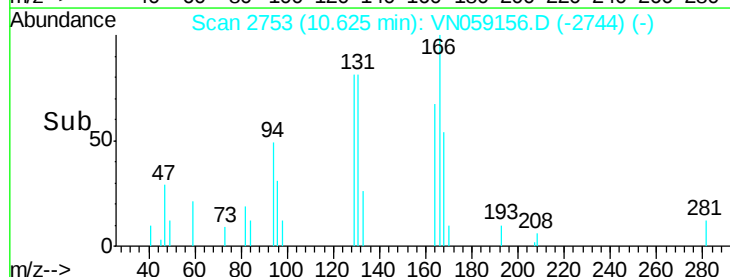
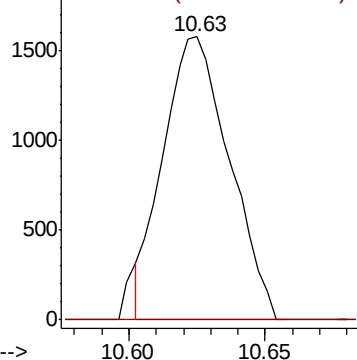
Ion Ratio Lower Upper

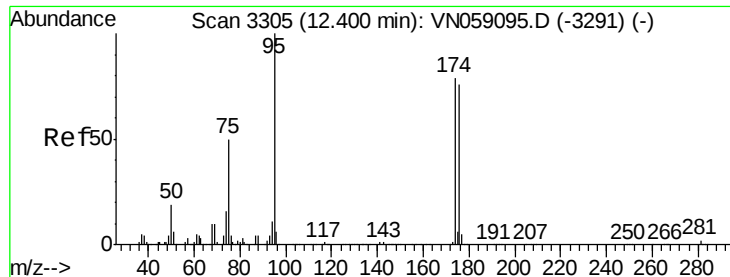
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VN059095.D (-2822) (-)





#62

4-Bromofluorobenzene

Concen: 44.659 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

DUP-2-SRI4

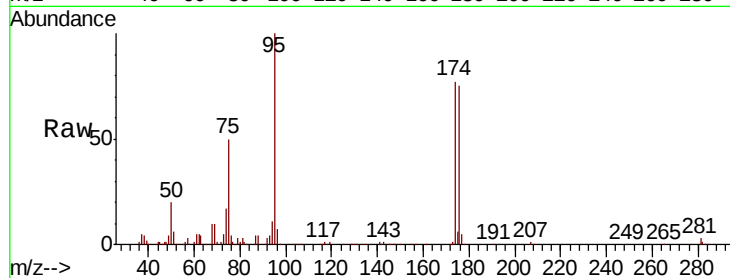
Tot Ion: 95 Resp: 268631

Ion Ratio Lower Upper

95 100

174 77.7 0.0 158.2

176 75.6 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0

12.40

200000

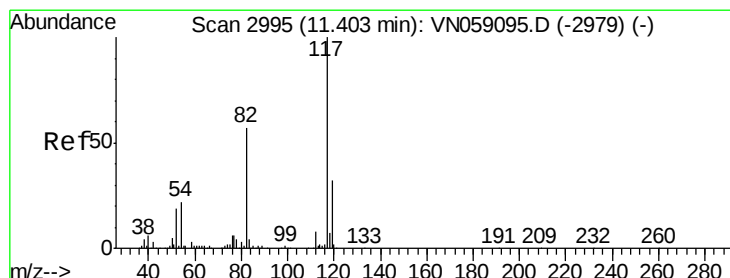
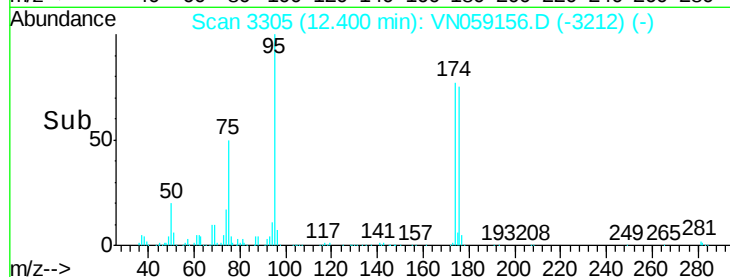
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

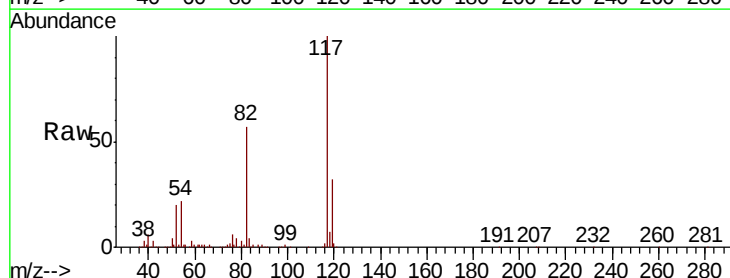
Tgt Ion: 117 Resp: 602934

Ion Ratio Lower Upper

117 100

82 57.0 45.8 68.8

119 31.8 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

11.40

400000

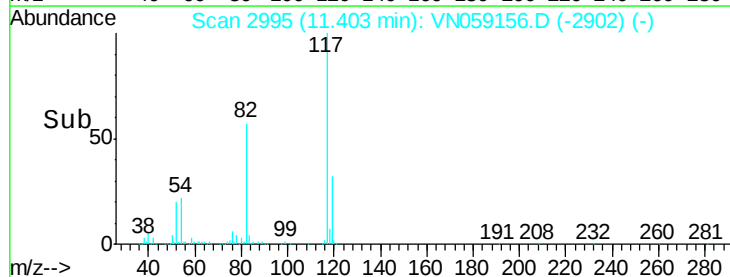
300000

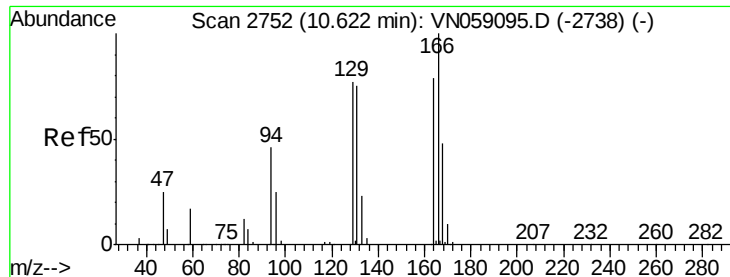
200000

100000

0

Time--> 11.30 11.40 11.50





#64

Tetrachloroethene

Concen: 0.760 ug/l

RT: 10.62 min Scan# 2751

Delta R.T. -0.00 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

DUP-2-SRI4

Tot Ion:164 Resp: 3117

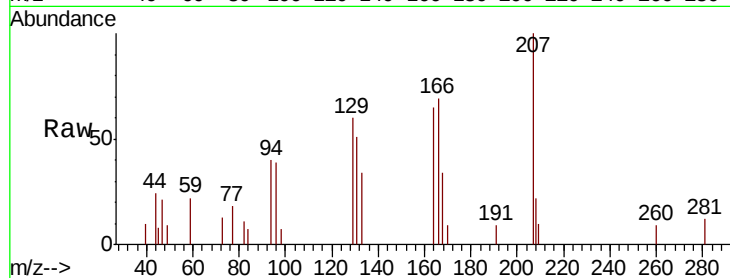
Ion Ratio Lower Upper

164 100

166 106.7 101.5 152.3

129 91.6 78.3 117.5

131 78.9 75.9 113.9



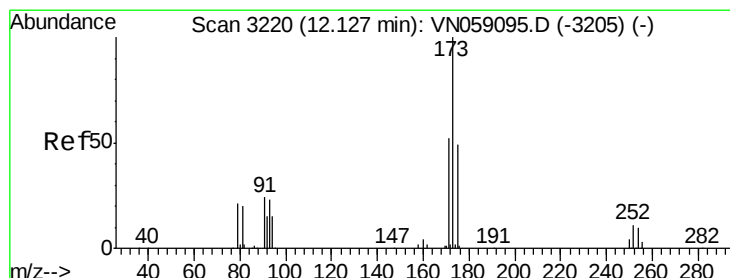
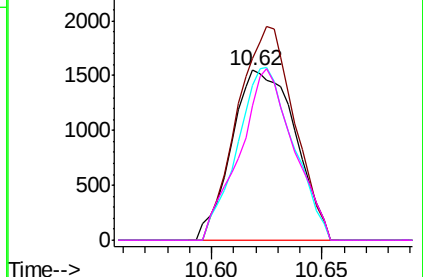
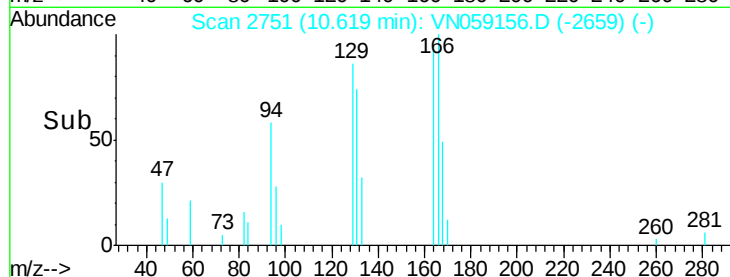
Abundance Ion 163.80 (163.50 to 164.50): V

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

Time-->



#71

Bromoform

Concen: 0.500 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

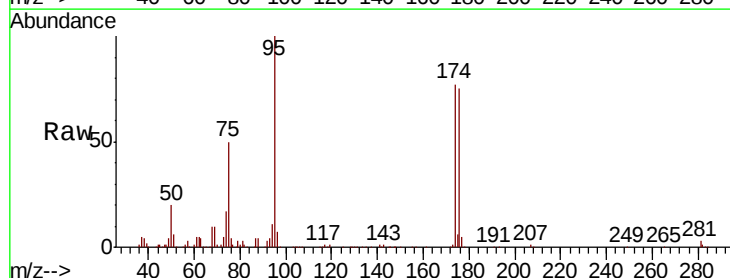
Tgt Ion:173 Resp: 1714

Ion Ratio Lower Upper

173 100

175 784.0 24.2 72.6#

254 0.0 0.1 0.1#

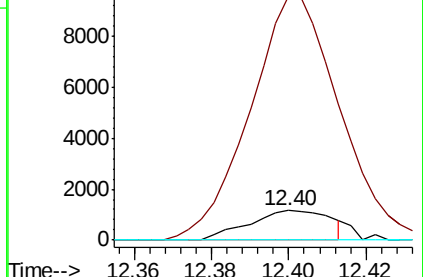
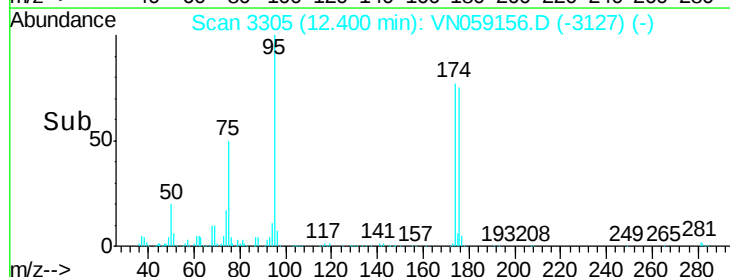


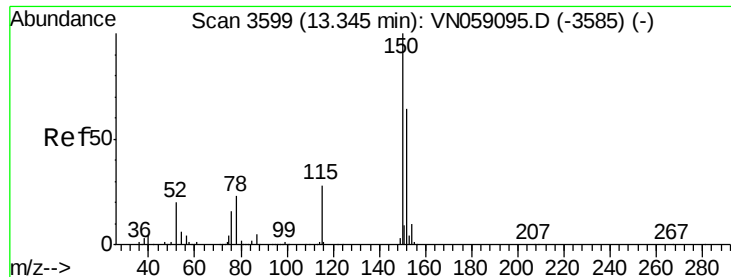
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

Instrument :

MSVOA_N

ClientSampleId :

DUP-2-SRI4

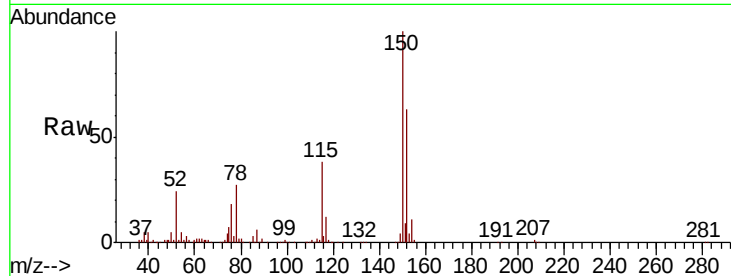
Tot Ion:152 Resp: 205821

Ion Ratio Lower Upper

152 100

115 59.7 29.4 88.2

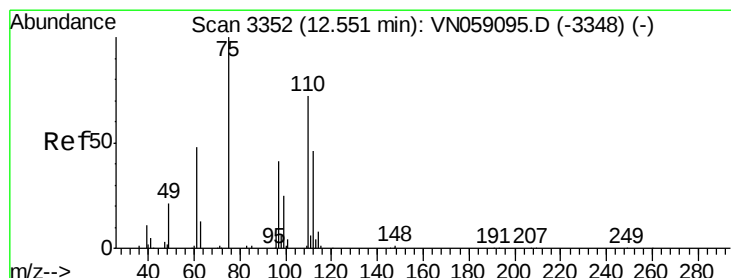
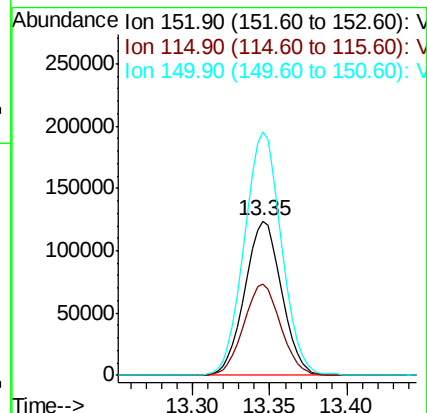
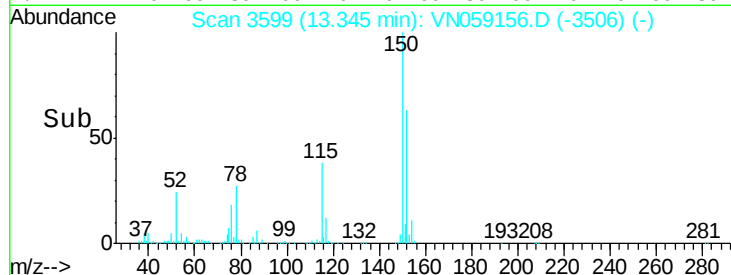
150 159.4 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 29.197 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059156.D

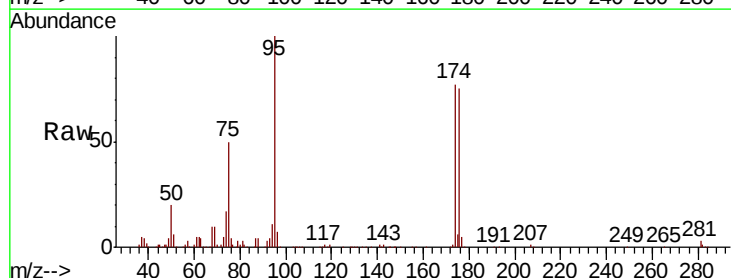
Acq: 11 Nov 2019 13:25

Tgt Ion: 75 Resp: 136814

Ion Ratio Lower Upper

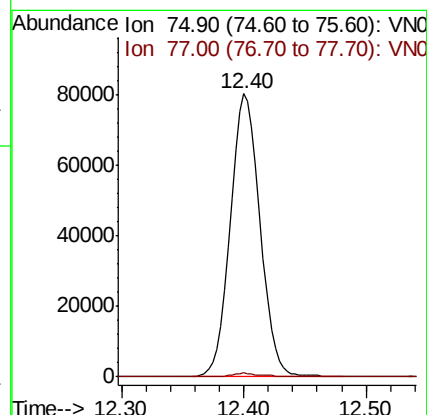
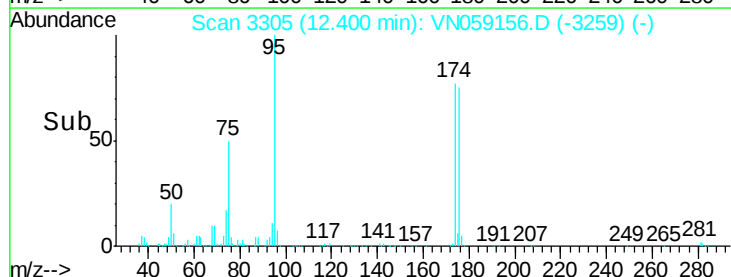
75 100

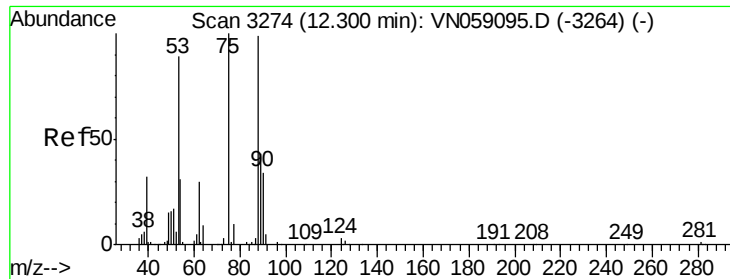
77 1.4 0.0 0.0#



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: 77.118 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

Instrument :

MSVOA_N

ClientSampled :

DUP-2-SRI4

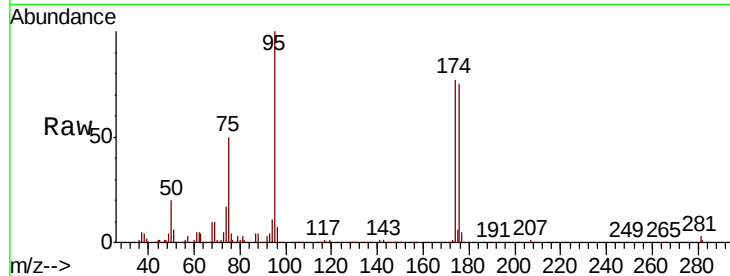
Tot Ion: 75 Resp: 136814

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

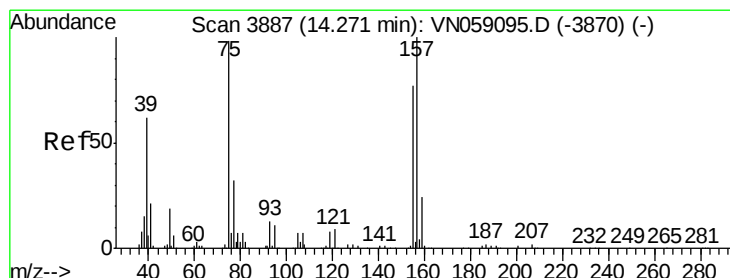
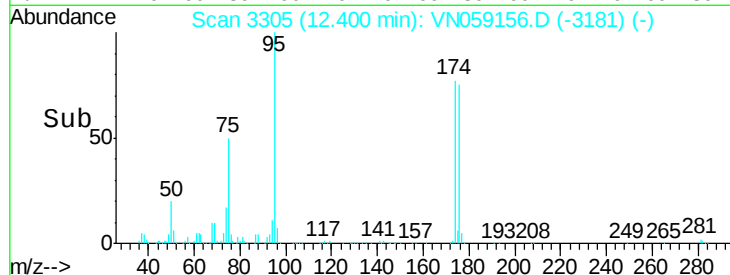
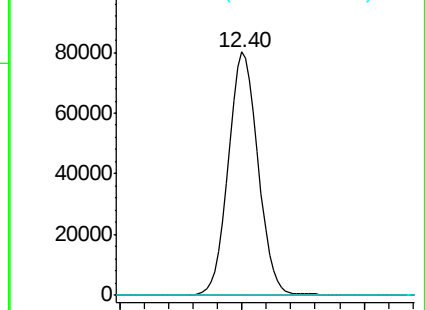
89 0.0 35.8 53.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.391 ug/l

RT: 14.29 min Scan# 3894

Delta R.T. 0.02 min

Lab File: VN059156.D

Acq: 11 Nov 2019 13:25

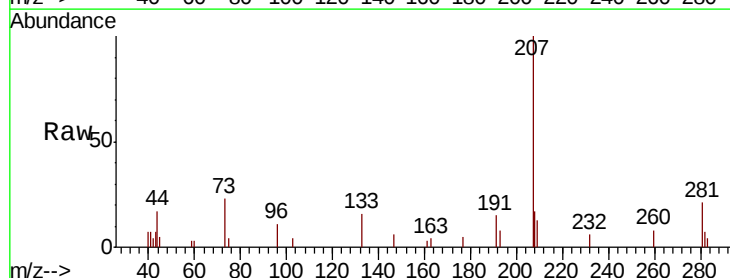
Tgt Ion: 75 Resp: 371

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

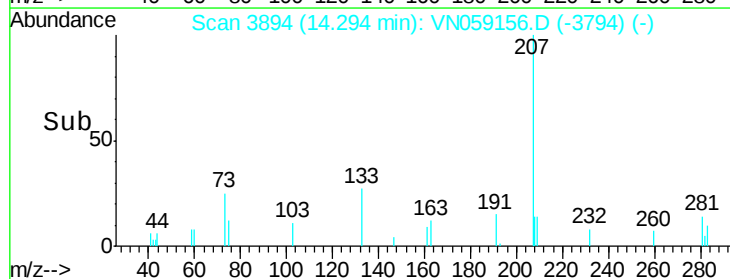
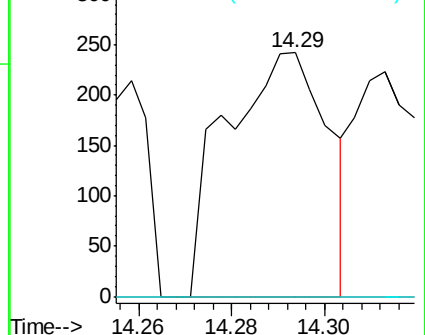
157 0.0 51.8 155.5#

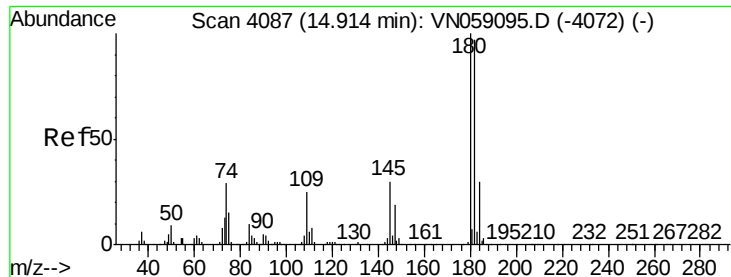


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

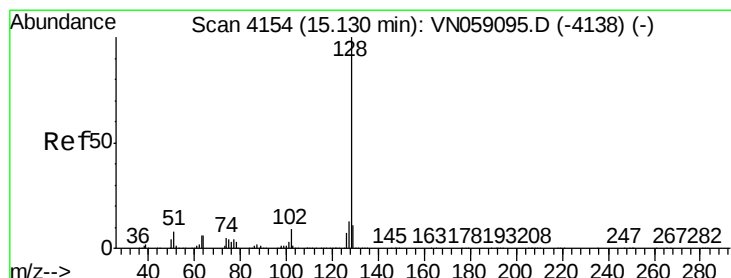
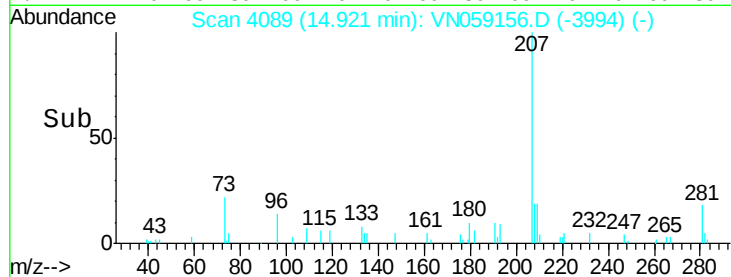
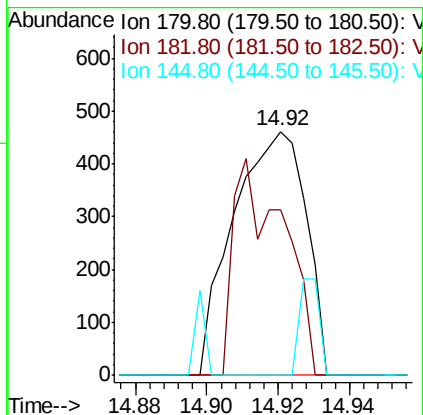
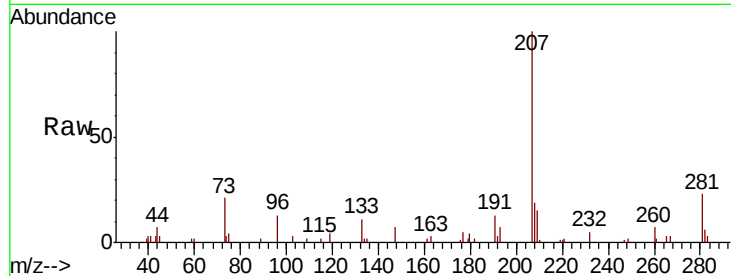




#93
 1,2,4-Trichlorobenzene
 Concen: 3.205 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN059156.D
 Acq: 11 Nov 2019 13:25

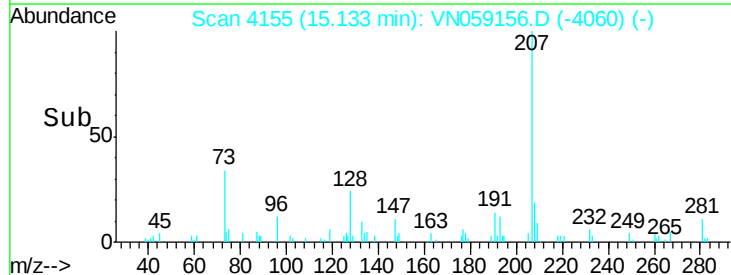
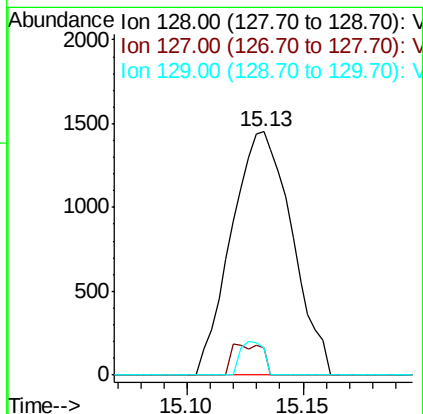
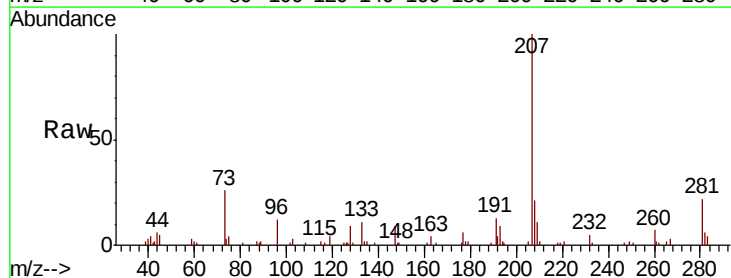
Instrument :
 MSVOA_N
 ClientSampled :
 DUP-2-SRI4

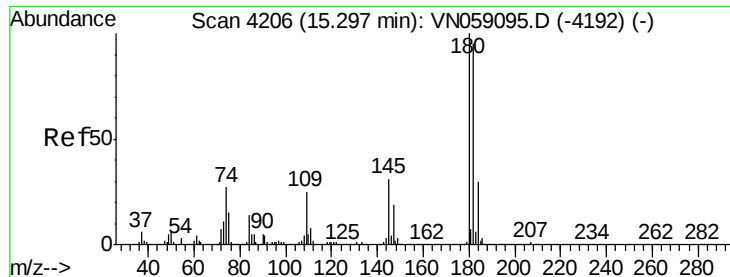
Tot Ion:180 Resp: 648
 Ion Ratio Lower Upper
 180 100
 182 61.4 48.1 144.3
 145 10.8 15.1 45.3#



#95
 Naphthalene
 Concen: 3.277 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN059156.D
 Acq: 11 Nov 2019 13:25

Tgt Ion:128 Resp: 2631
 Ion Ratio Lower Upper
 128 100
 127 6.3 10.2 15.2#
 129 5.3 8.6 12.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.280 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.01 min
 Lab File: VN059156.D
 Acq: 11 Nov 2019 13:25

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP-2-SRI4

Tot Ion	Ratio	Lower	Upper
180	100		
182	77.2	47.3	141.8
145	5.2	15.8	47.3

