

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061019\
 Data File : VN056187.D
 Acq On : 10 Jun 2019 23:44
 Operator : JC/SP
 Sample : K3267-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 11 02:24:29 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	310715	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	473809	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	466852	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	159399	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	169665	54.99	ug/l	0.00
Spiked Amount			Recovery	=	109.98%	
35) Dibromofluoromethane	7.59	113	155584	53.52	ug/l	0.00
Spiked Amount			Recovery	=	107.04%	
50) Toluene-d8	10.09	98	608190	54.37	ug/l	0.00
Spiked Amount			Recovery	=	108.74%	
62) 4-Bromofluorobenzene	12.40	95	201452	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	

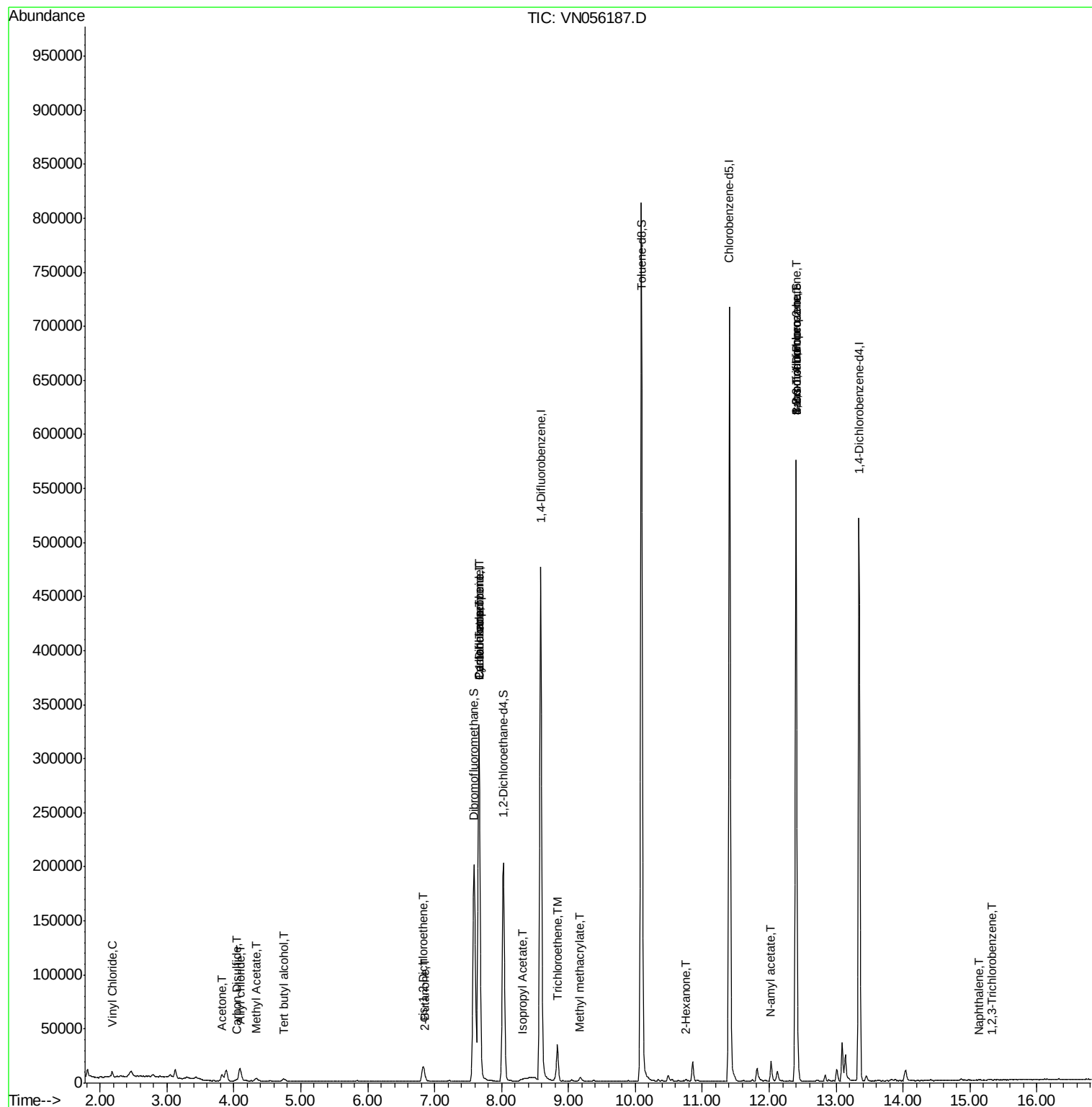
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.18	62	824	0.244	ug/l	93
11) Tert butyl alcohol	4.75	59	1996	3.718	ug/l #	74
14) Allyl chloride	4.09	41	1721	0.418	ug/l #	56
16) Acetone	3.82	43	10870	7.367	ug/l	99
17) Carbon Disulfide	4.04	76	3197	0.512	ug/l #	74
18) Methyl Acetate	4.34	43	6377	1.641	ug/l #	71
25) 2-Butanone	6.87	43	2679	1.437	ug/l #	82
27) cis-1,2-Dichloroethene	6.82	96	9330	2.840	ug/l	93
31) Cyclohexane	7.66	56	4690	0.958	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18217	4.471	ug/l #	49
38) Carbon Tetrachloride	7.66	117	25359	6.751	ug/l #	16
43) Isopropyl Acetate	8.32	43	2607	0.444	ug/l #	53
44) Trichloroethene	8.83	130	13314	3.744	ug/l	94
48) Methyl methacrylate	9.17	41	1094	0.381	ug/l #	30
59) 2-Hexanone	10.76	43	1346	0.506	ug/l	93
71) Bromoform	12.40	173	1395	3.232	ug/l #	1
73) Isopropylbenzene	12.24	105	29	Below Cal	#	48
74) N-amyl acetate	12.03	43	12089	2.845	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	91187	31.090	ug/l #	100
79) 2-Chlorotoluene	12.59	91	248	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	91187	103.535	ug/l #	15
95) Naphthalene	15.13	128	295	3.887	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	185	3.089	ug/l #	12

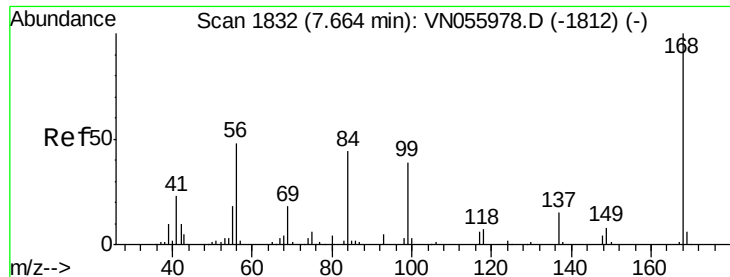
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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# 1832

Delta R.T. 0.00 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Instrument :

MSVOA_N

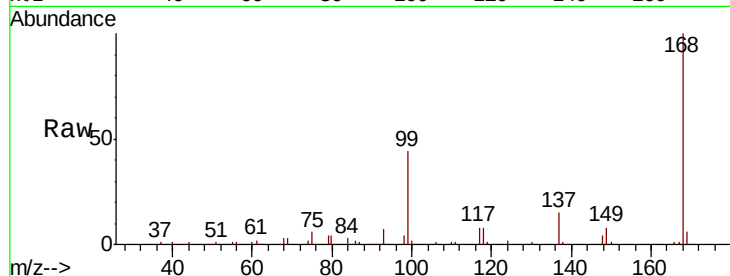
ClientSampled :

Tot Ion:168 Resp: 310715

Ion Ratio Lower Upper

168 100

99 43.7 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

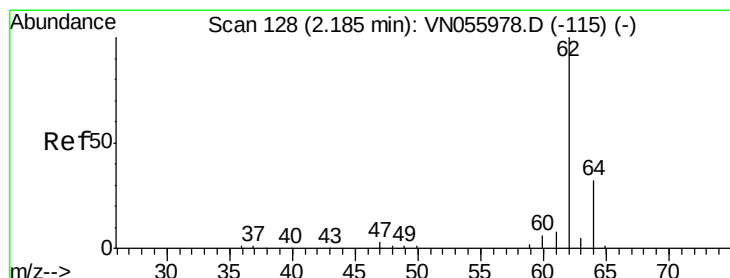
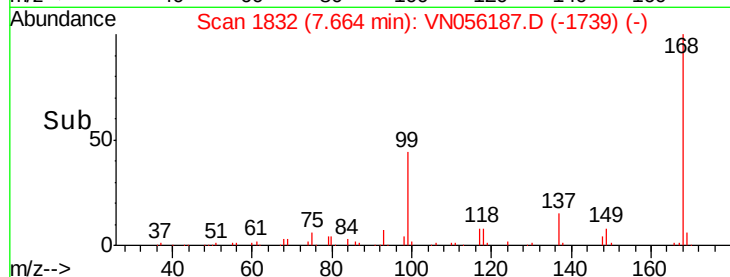
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.244 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN056187.D

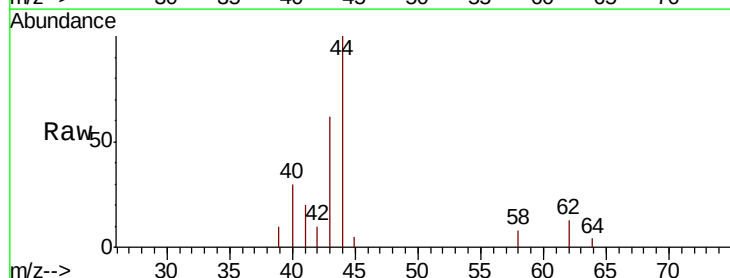
Acq: 10 Jun 2019 23:44

Tgt Ion: 62 Resp: 824

Ion Ratio Lower Upper

62 100

64 28.3 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.18

600

500

400

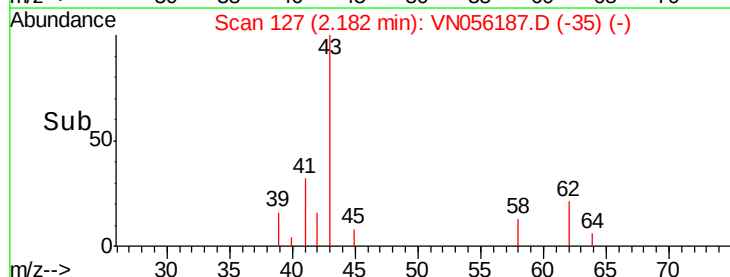
300

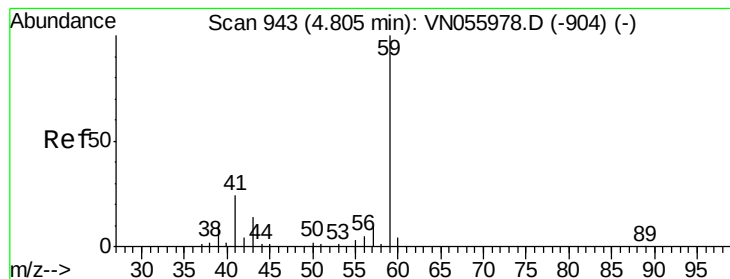
200

100

0

Time-->



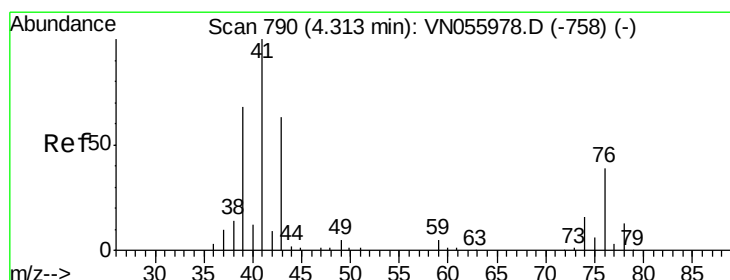
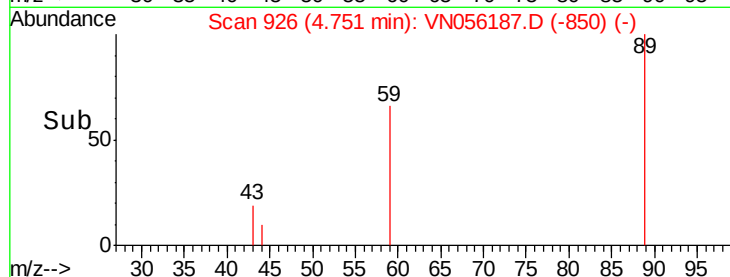
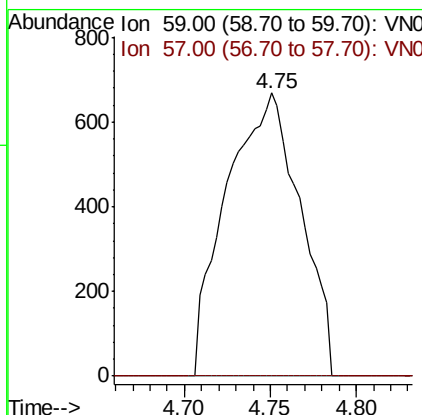
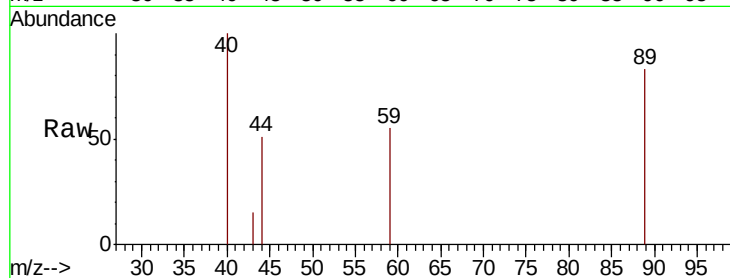


#11

Tert butyl alcohol
Concen: 3.718 ug/l
RT: 4.75 min Scan# 926
Delta R.T. -0.05 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

Instrument :
MSVOA_N
ClientSampleId :

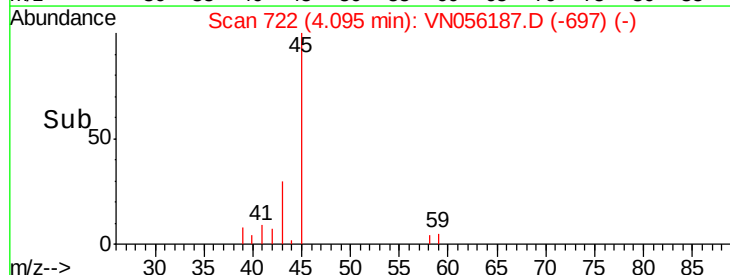
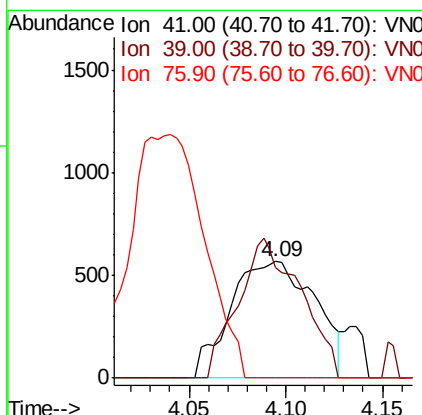
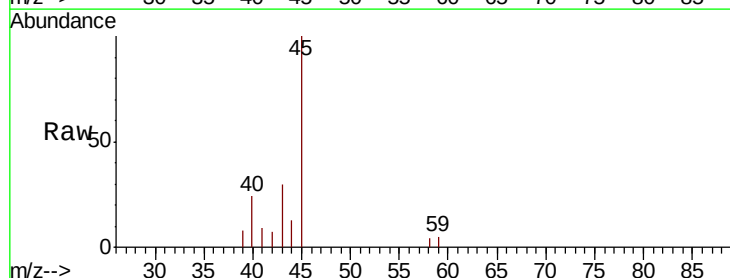
Tot Ion: 59 Resp: 1996
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#

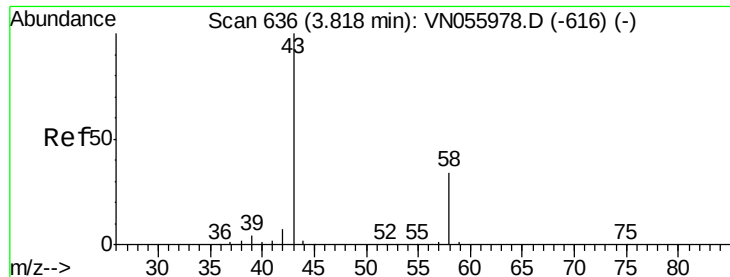


#14

Allyl chloride
Concen: 0.418 ug/l
RT: 4.09 min Scan# 722
Delta R.T. -0.22 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

Tgt Ion: 41 Resp: 1721
Ion Ratio Lower Upper
41 100
39 89.2 50.0 75.0#
76 0.0 28.2 42.2#

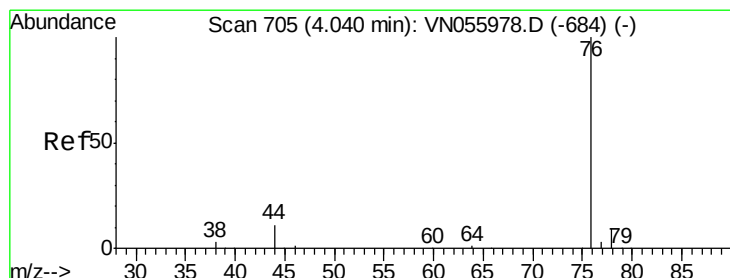
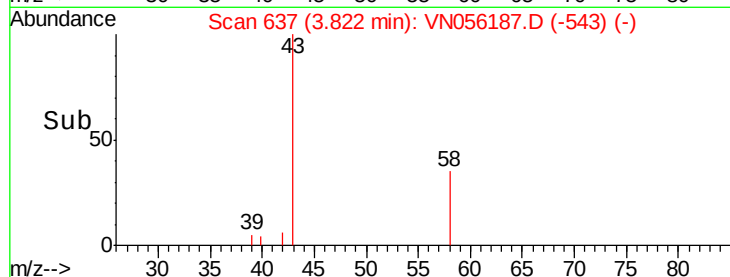
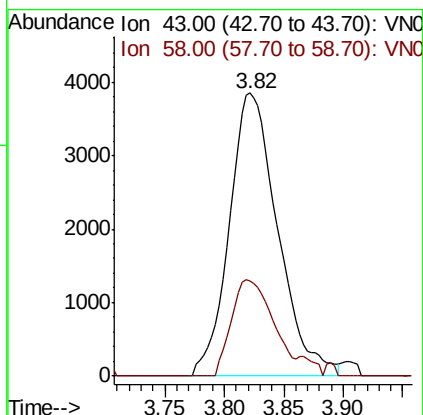
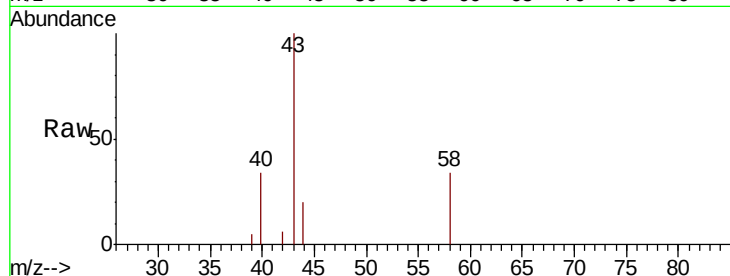




#16
Acetone
Concen: 7.367 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

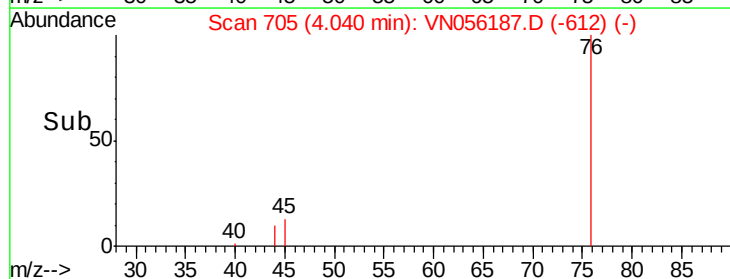
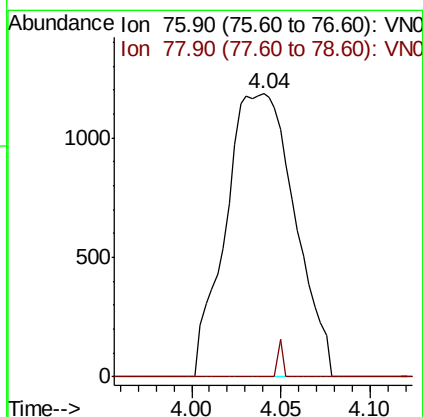
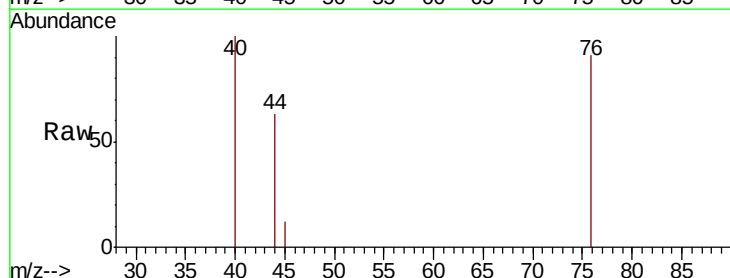
Instrument :
MSVOA_N
ClientSampled :

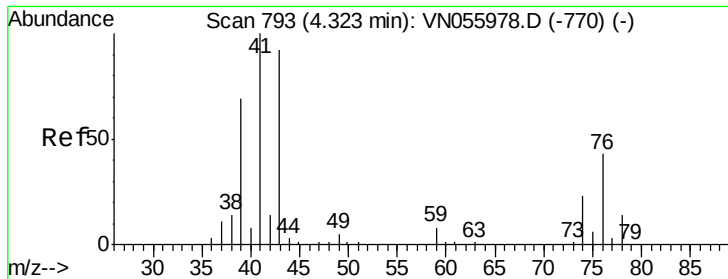
Tot Ion: 43 Resp: 10870
Ion Ratio Lower Upper
43 100
58 33.5 26.6 39.8



#17
Carbon Disulfide
Concen: 0.512 ug/l
RT: 4.04 min Scan# 705
Delta R.T. 0.00 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

Tgt Ion: 76 Resp: 3197
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#

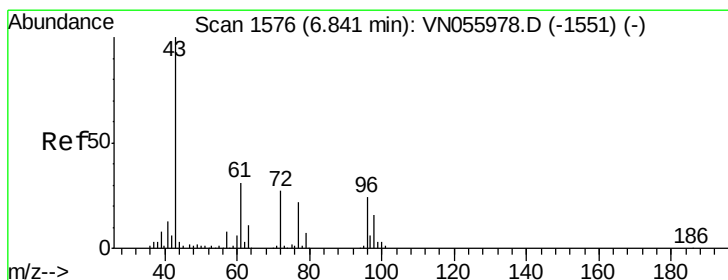
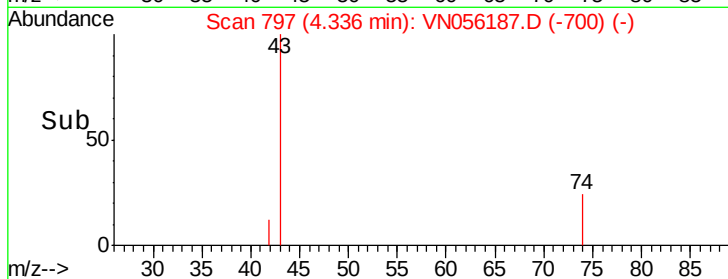
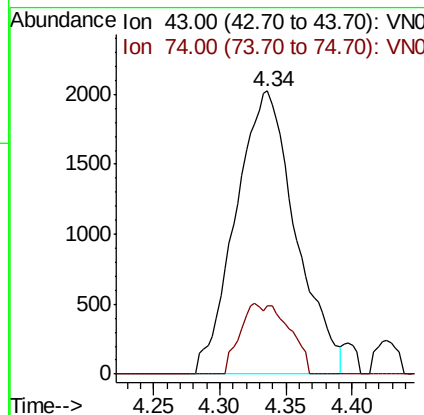
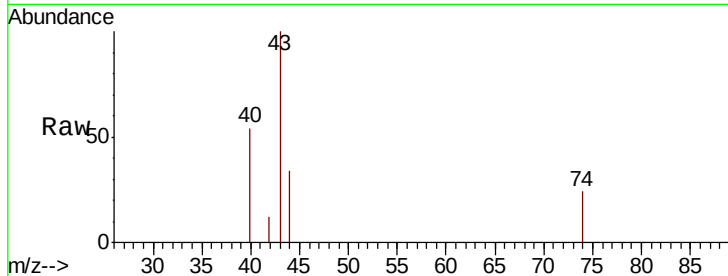




#18
Methvl Acetate
Concen: 1.641 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

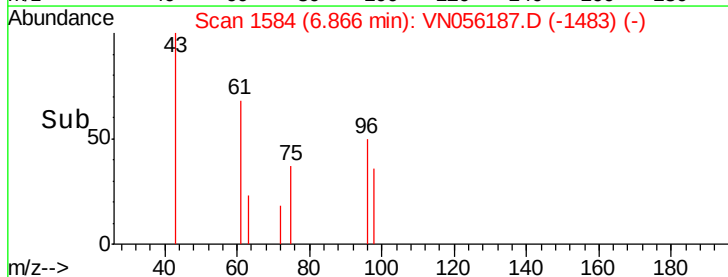
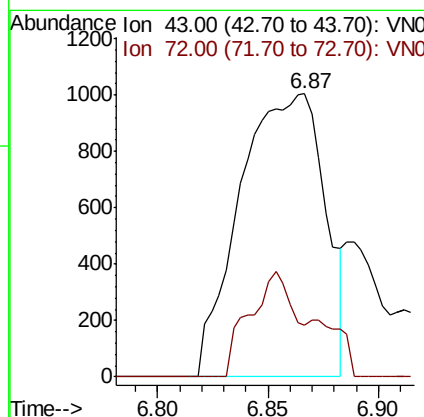
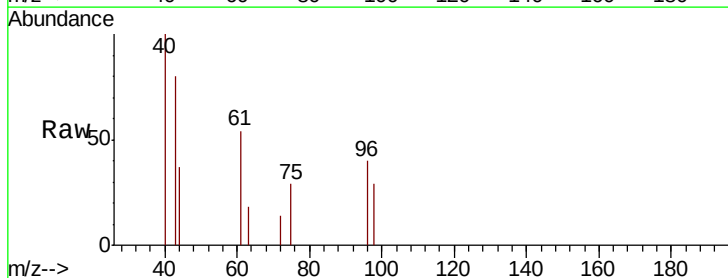
Instrument :
MSVOA_N
ClientSampled :

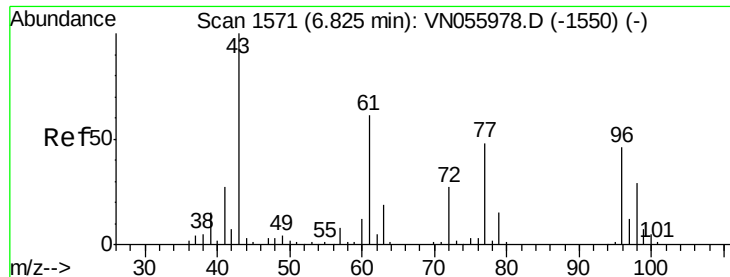
Tot Ion: 43 Resp: 6377
Ion Ratio Lower Upper
43 100
74 9.9 19.3 28.9#



#25
2-Butanone
Concen: 1.437 ug/l
RT: 6.87 min Scan# 1584
Delta R.T. 0.03 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

Tgt Ion: 43 Resp: 2679
Ion Ratio Lower Upper
43 100
72 18.1 21.9 32.9#





#27

cis-1,2-Dichloroethene

Concen: 2.840 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

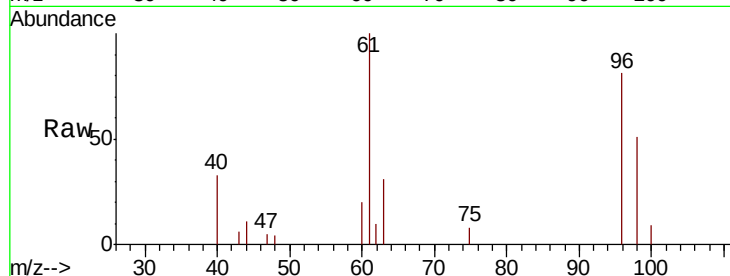
Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 96 Resp: 9330

Ion	Ratio	Lower	Upper
96	100		
61	125.9	0.0	275.8
98	65.7	0.0	128.4

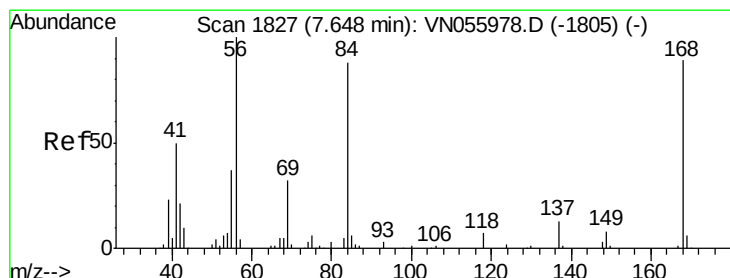
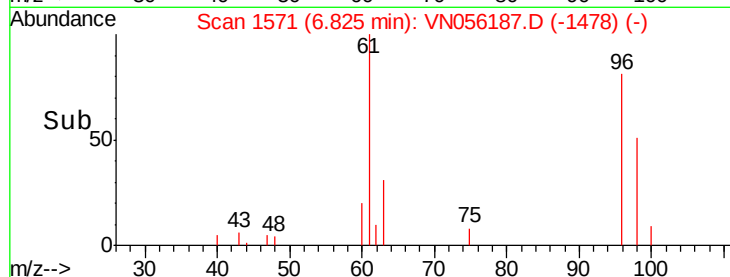
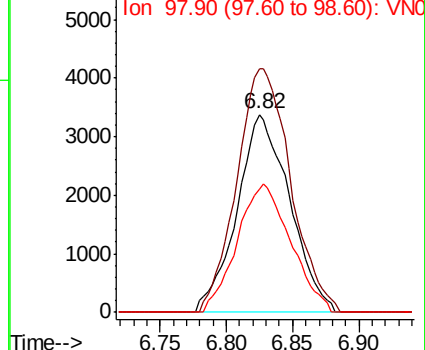


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 0.958 ug/l

RT: 7.66 min Scan# 1831

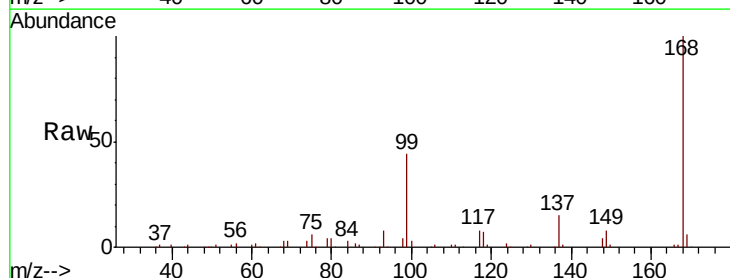
Delta R.T. 0.01 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Tgt Ion: 56 Resp: 4690

Ion	Ratio	Lower	Upper
56	100		
69	182.3	25.6	38.4#
84	166.6	67.4	101.0#

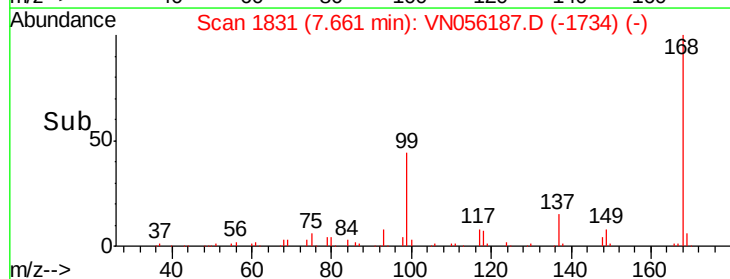
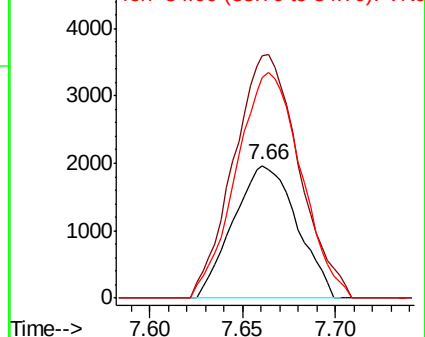


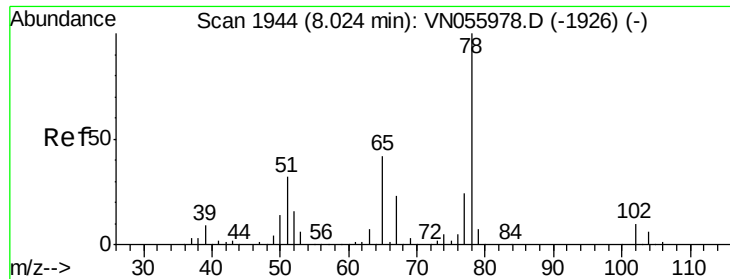
Abundance

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

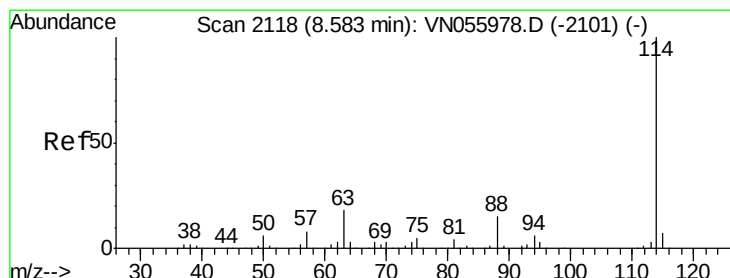
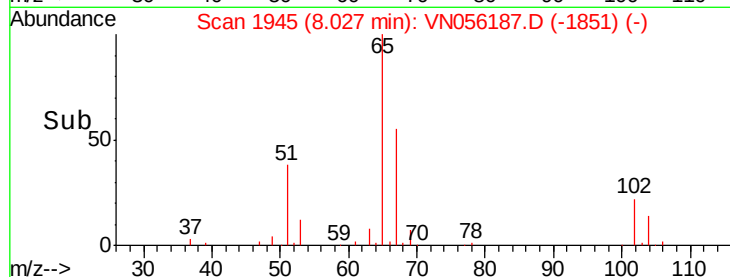
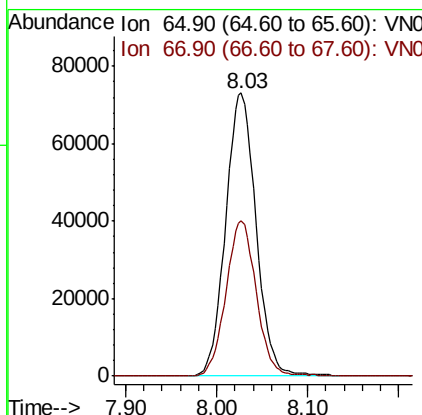
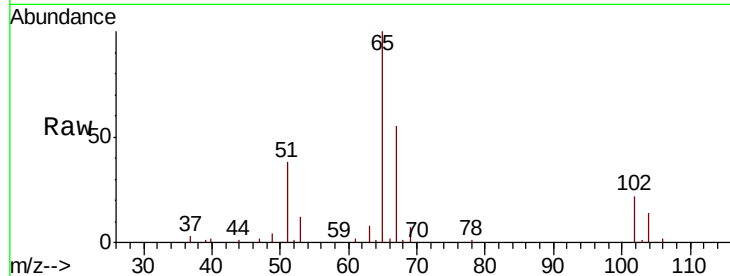




#33
 1,2-Dichloroethane-d4
 Concen: 54.994 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056187.D
 Acq: 10 Jun 2019 23:44

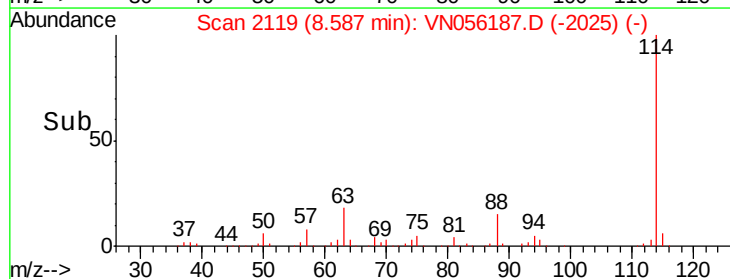
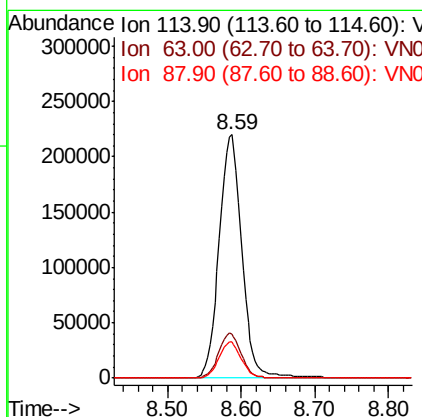
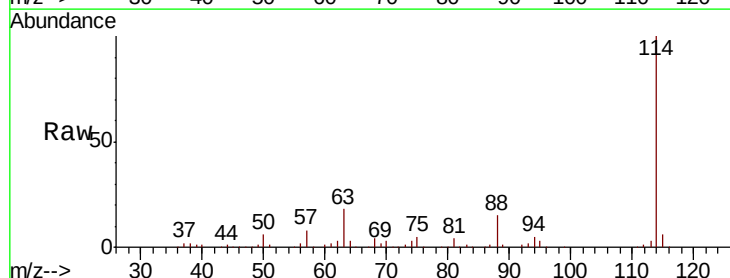
Instrument :
 MSVOA_N
 ClientSampleId :

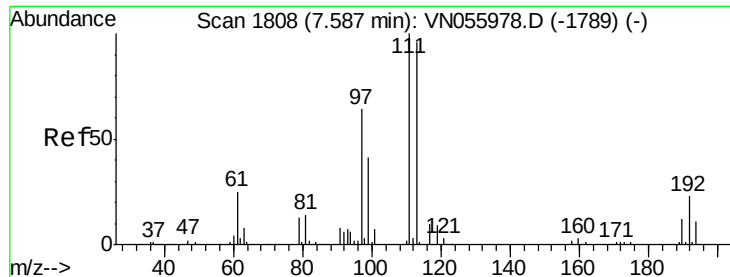
Tot Ion: 65 Resp: 169665
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056187.D
 Acq: 10 Jun 2019 23:44

Tgt Ion: 114 Resp: 473809
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 39.2
 88 14.7 0.0 31.0





#35

Dibromofluoromethane

Concen: 53.521 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Instrument :
MSVOA_N
ClientSampleId :

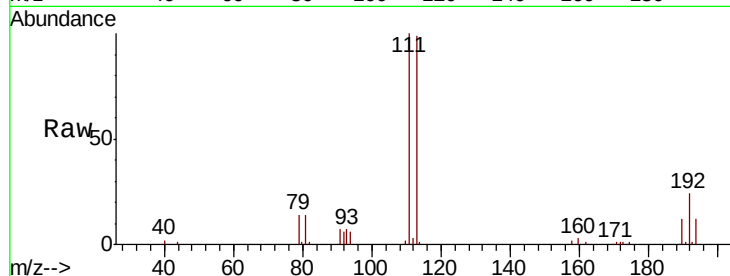
Tot Ion:113 Resp: 155584

Ion Ratio Lower Upper

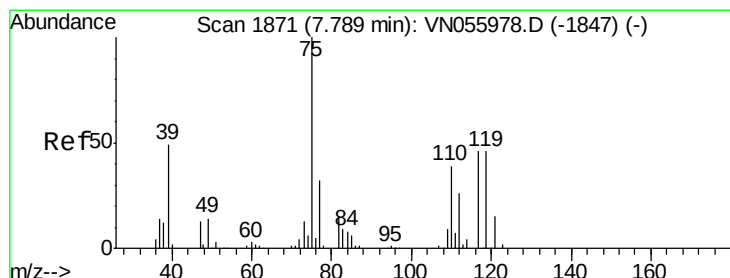
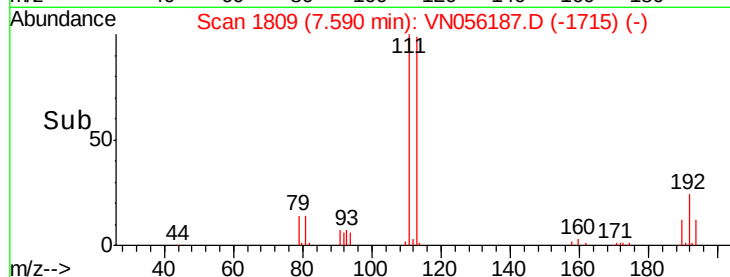
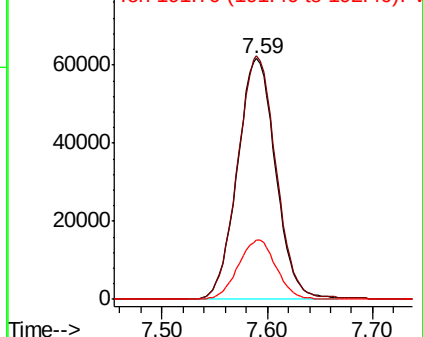
113 100

111 101.9 81.9 122.9

192 24.4 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: 4.471 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

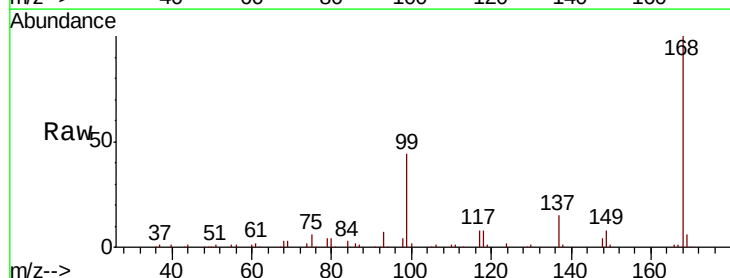
Tgt Ion: 75 Resp: 18217

Ion Ratio Lower Upper

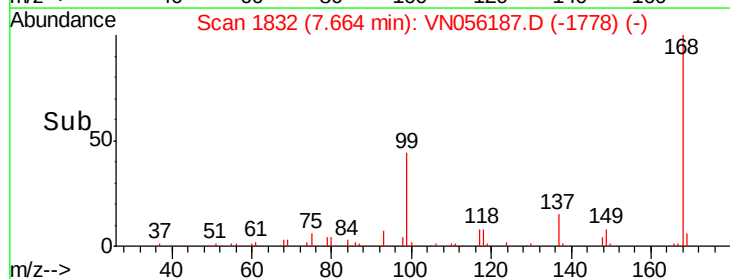
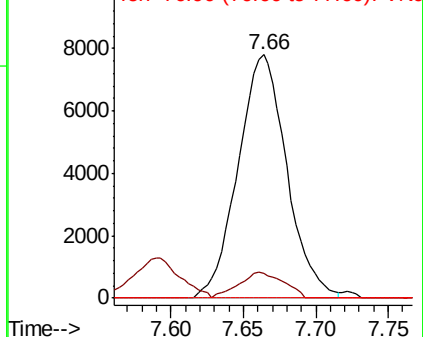
75 100

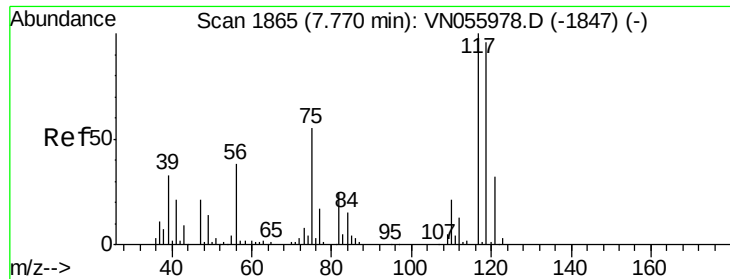
110 9.7 19.0 57.0#

77 0.0 25.1 37.7#



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

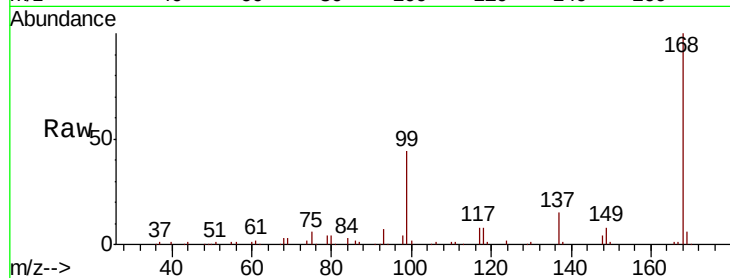




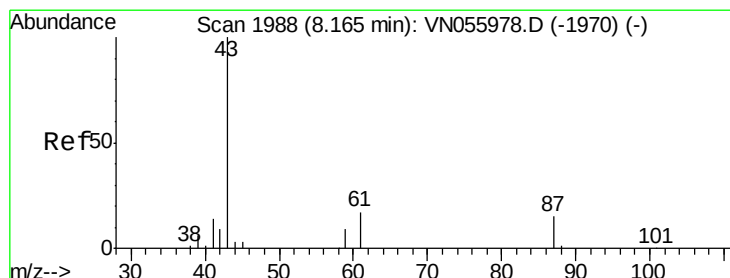
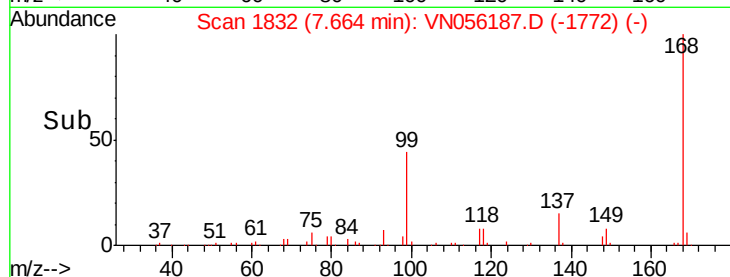
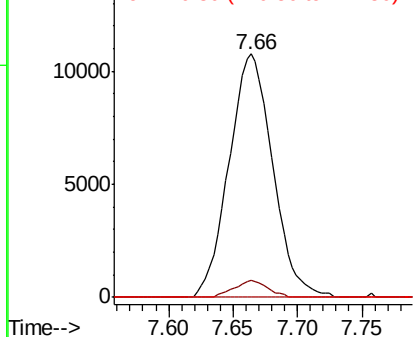
#38
Carbon Tetrachloride
Concen: 6.751 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 25359
Ion Ratio Lower Upper
117 100
119 7.1 79.0 118.6#
121 0.0 24.7 37.1#

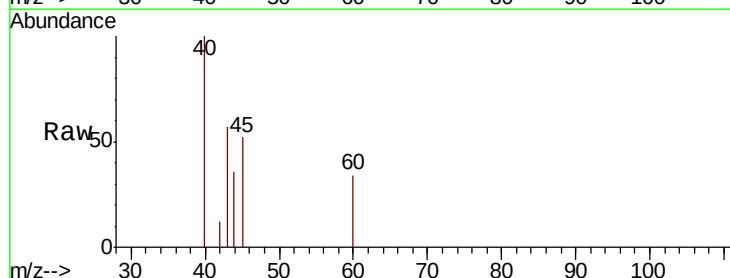


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

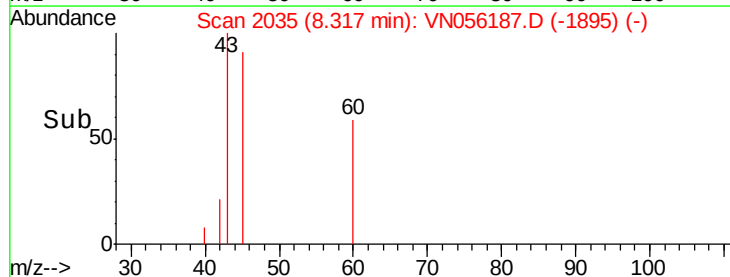
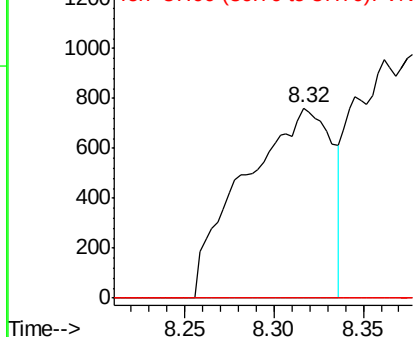


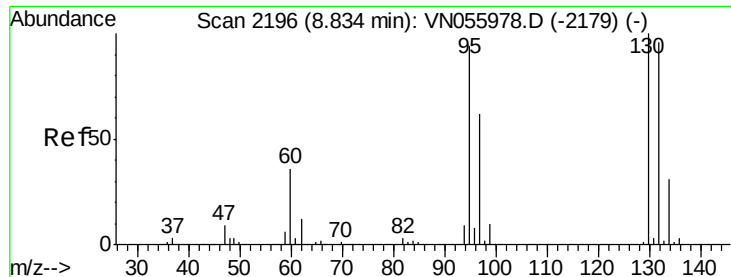
#43
Isopropyl Acetate
Concen: 0.444 ug/l
RT: 8.32 min Scan# 2035
Delta R.T. 0.15 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

Tgt Ion: 43 Resp: 2607
Ion Ratio Lower Upper
43 100
61 0.0 22.2 33.4#
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#44

Trichloroethene

Concen: 3.744 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Instrument :

MSVOA_N

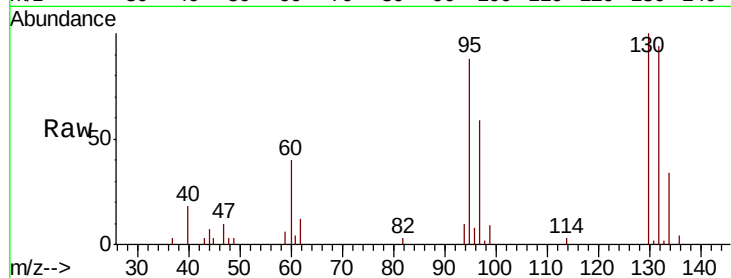
ClientSampleId :

Tot Ion:130 Resp: 13314

Ion Ratio Lower Upper

130 100

95 88.3 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.83

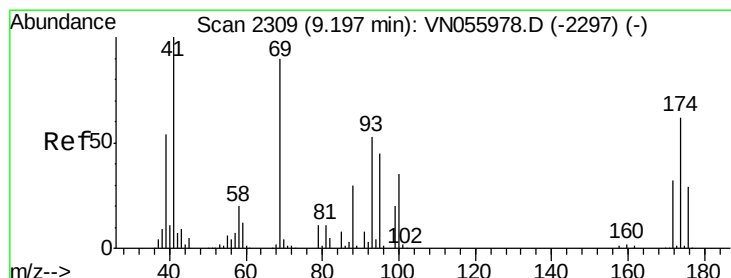
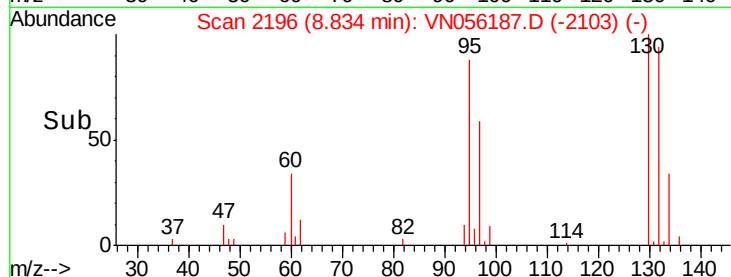
6000

4000

2000

0

Time--> 8.75 8.80 8.85 8.90



#48

Methyl methacrylate

Concen: 0.381 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.03 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

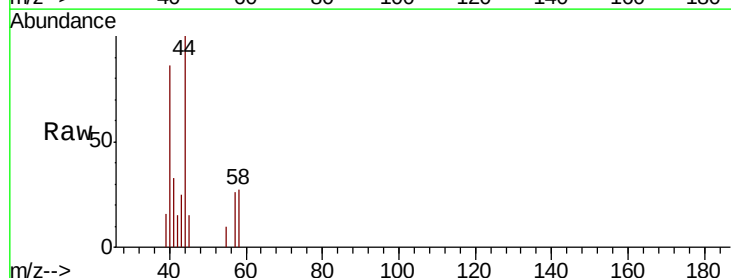
Tgt Ion: 41 Resp: 1094

Ion Ratio Lower Upper

41 100

69 0.0 71.0 106.6#

39 33.6 44.2 66.2#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 69.00 (68.70 to 69.70): VN

Ion 39.00 (38.70 to 39.70): VN

9.17

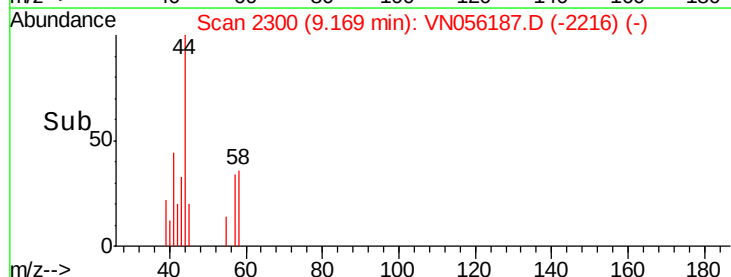
600

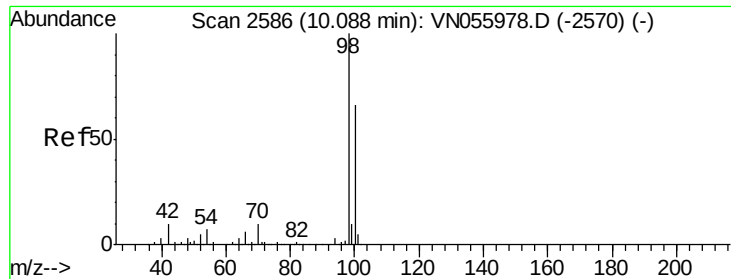
400

200

0

Time--> 9.15 9.20





#50

Toluene-d8

Concen: 54.370 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Instrument :

MSVOA_N

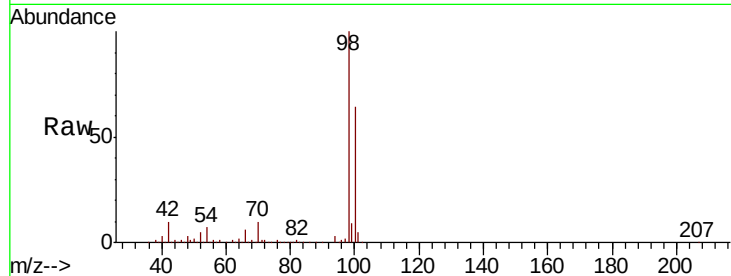
ClientSampleId :

Tot Ion: 98 Resp: 608190

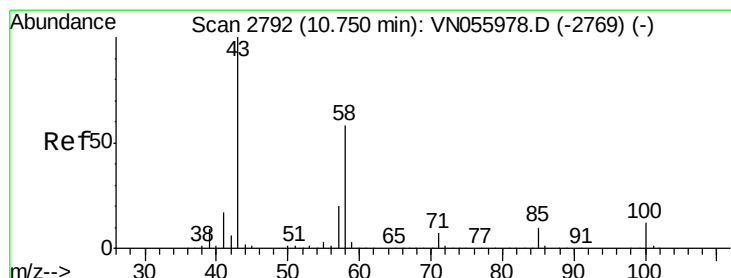
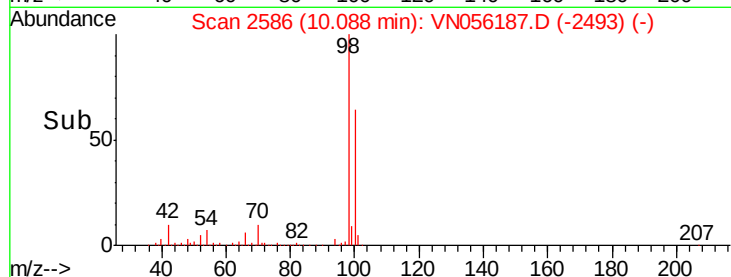
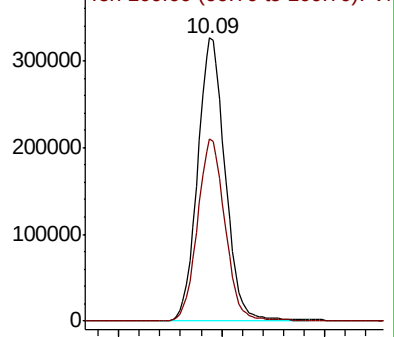
Ion Ratio Lower Upper

98 100

100 64.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)



#59

2-Hexanone

Concen: 0.506 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN056187.D

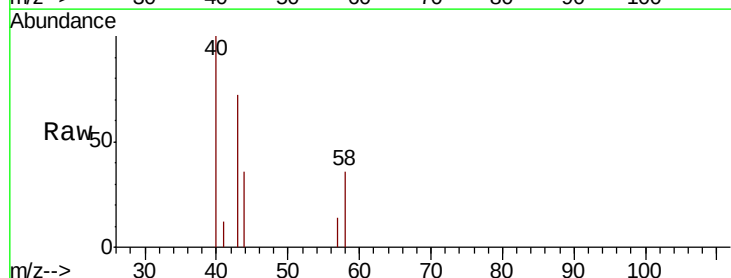
Acq: 10 Jun 2019 23:44

Tgt Ion: 43 Resp: 1346

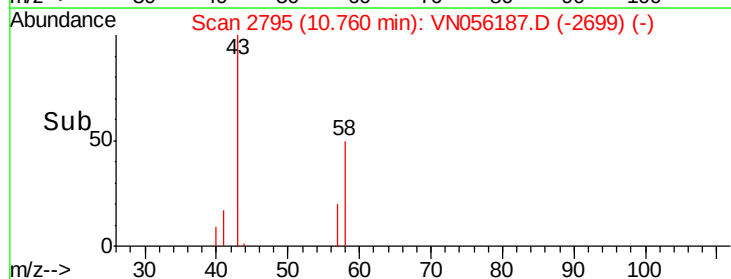
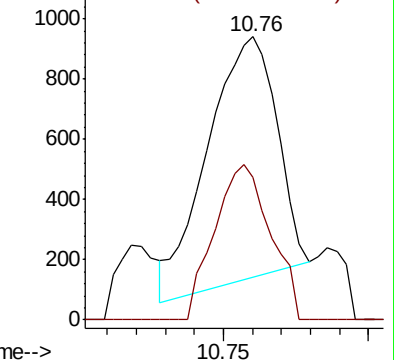
Ion Ratio Lower Upper

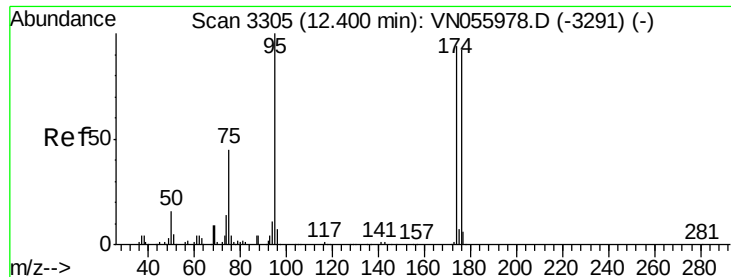
43 100

58 51.6 28.2 84.7



Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-2769) (-)

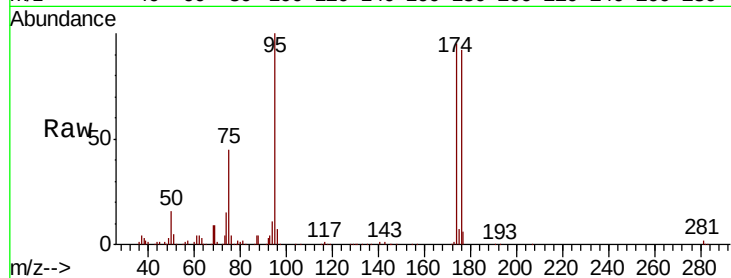




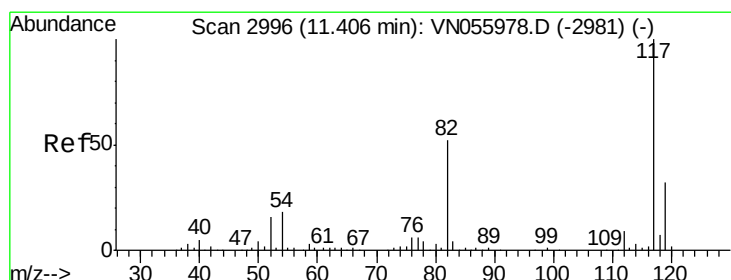
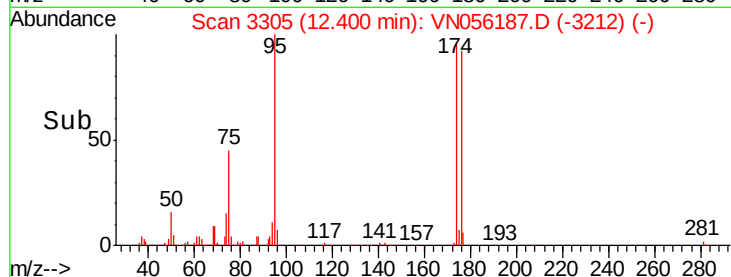
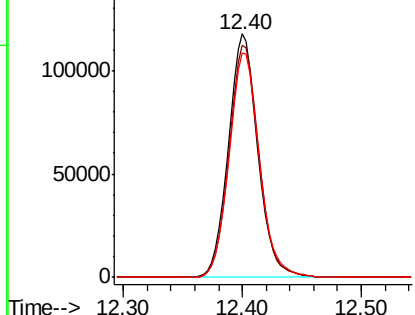
#62
4-Bromofluorobenzene
Concen: 52.956 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	96.9	0.0	191.0
176	94.5	0.0	185.2

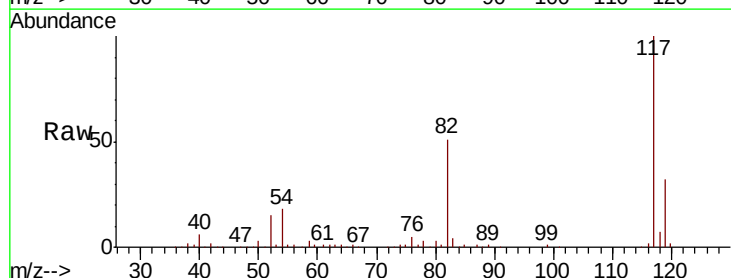


Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

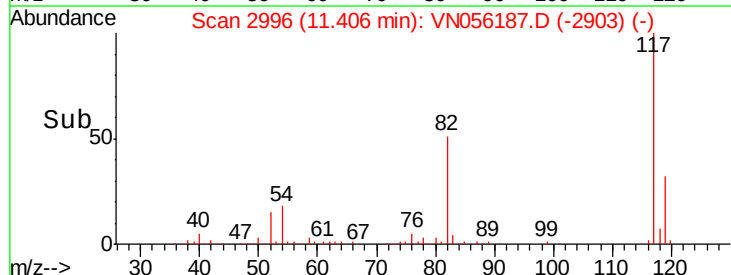
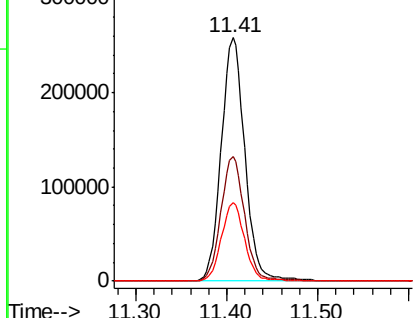


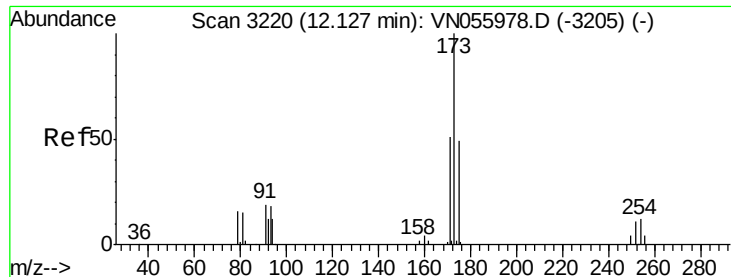
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.3	41.8	62.8
119	32.0	25.4	38.0



Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)
Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)
Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)





#71

Bromoform

Concen: 3.232 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Instrument :

MSVOA_N

ClientSampled :

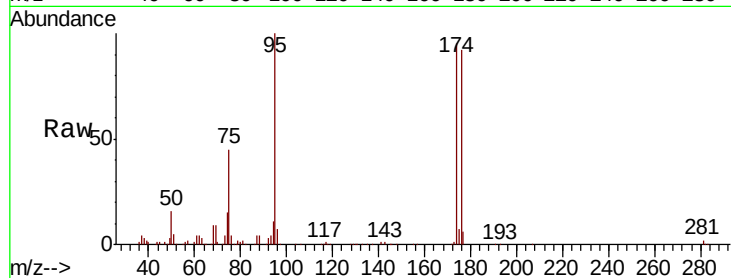
Tot Ion:173 Resp: 1395

Ion Ratio Lower Upper

173 100

175 919.4 24.3 72.8#

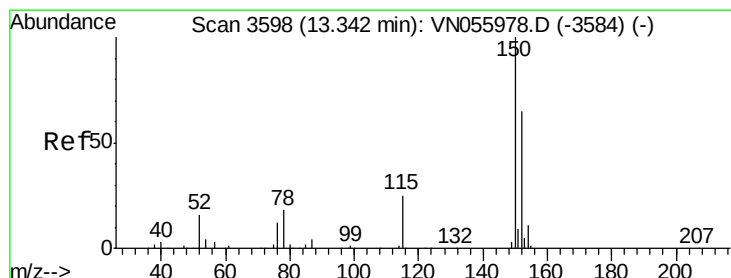
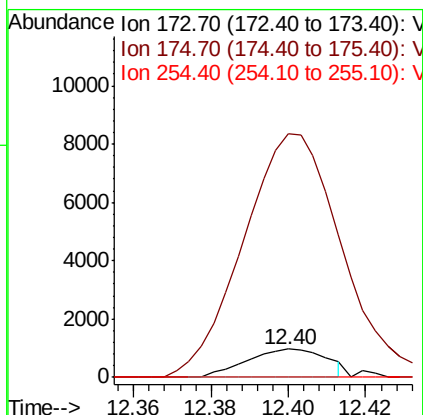
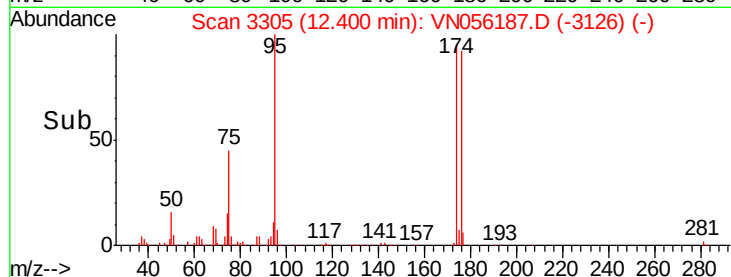
254 0.0 0.0 0.0



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: VN056187.D

Acq: 10 Jun 2019 23:44

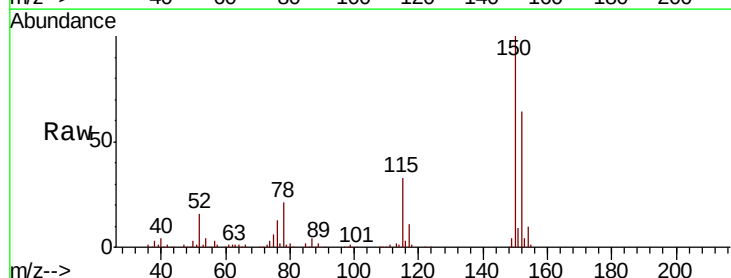
Tgt Ion:152 Resp: 159399

Ion Ratio Lower Upper

152 100

115 52.1 27.0 81.0

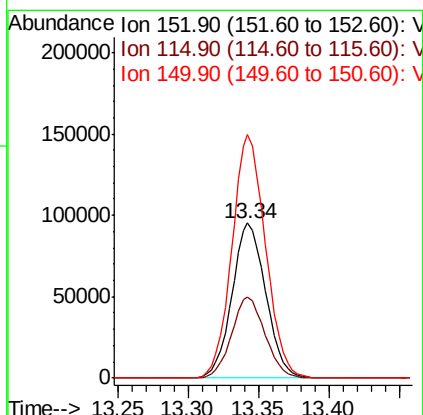
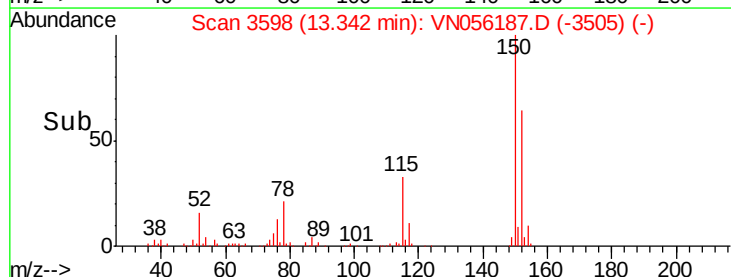
150 156.2 0.0 343.2

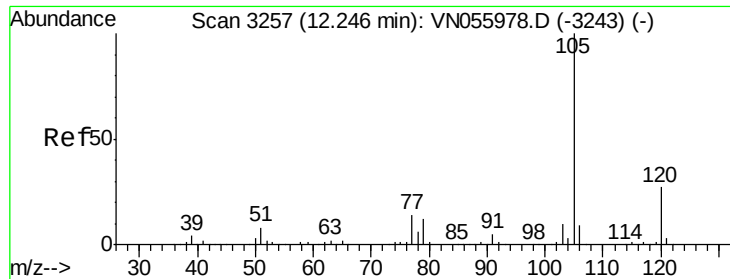


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Instrument :

MSVOA_N

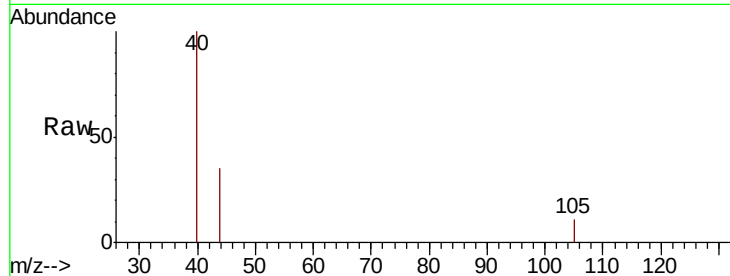
ClientSampleId :

Tot Ion:105 Resp: 29

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.24

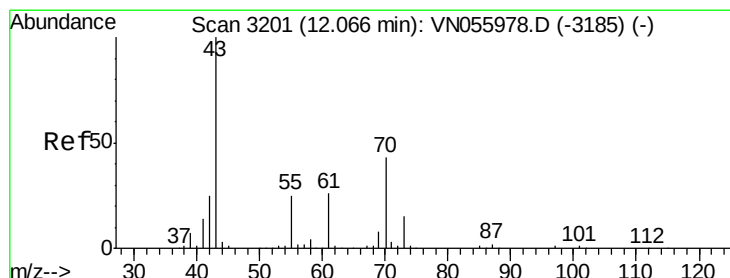
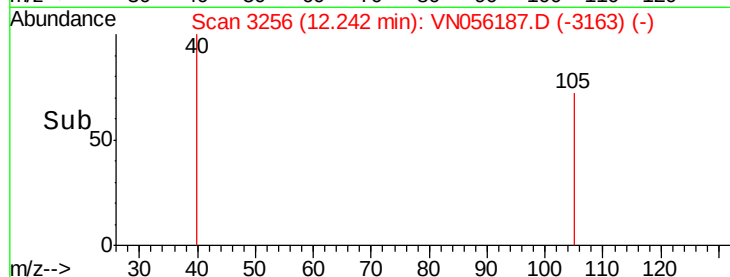
150

100

50

0

Time--> 12.23 12.24 12.25



#74

N-ethyl acetate

Concen: 2.845 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Tgt Ion: 43 Resp: 12089

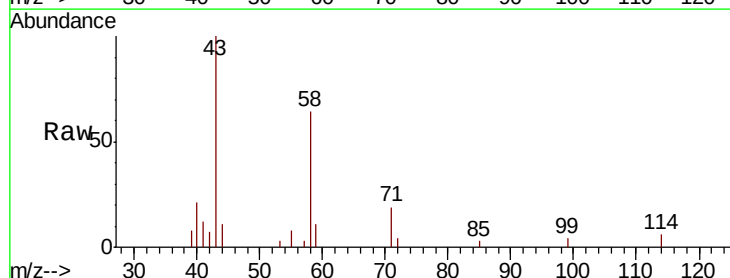
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 7.0 18.6 28.0#

61 0.0 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

12.03

10000

8000

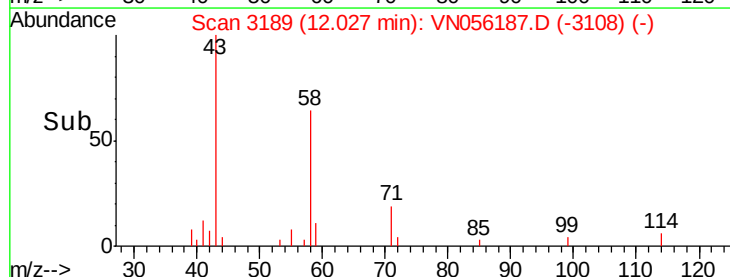
6000

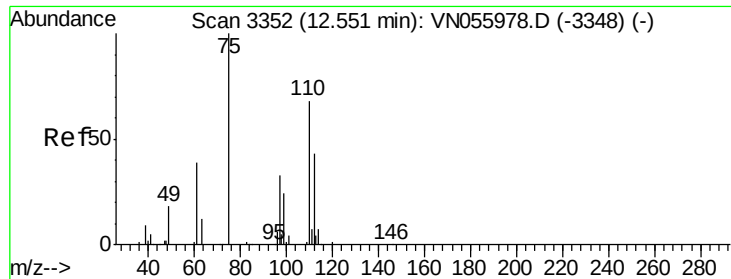
4000

2000

0

Time--> 11.95 12.00 12.05 12.10





#76

1,2,3-Trichloropropane

Concen: 31.090 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056187.D

Acq: 10 Jun 2019 23:44

Instrument :

MSVOA_N

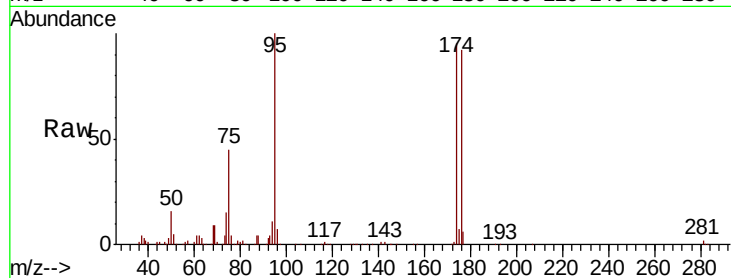
ClientSampled :

Tot Ion: 75 Resp: 91187

Ion Ratio Lower Upper

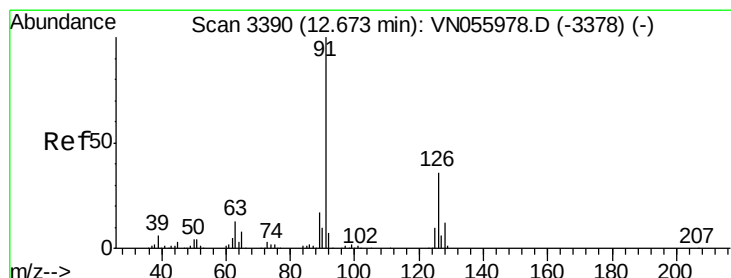
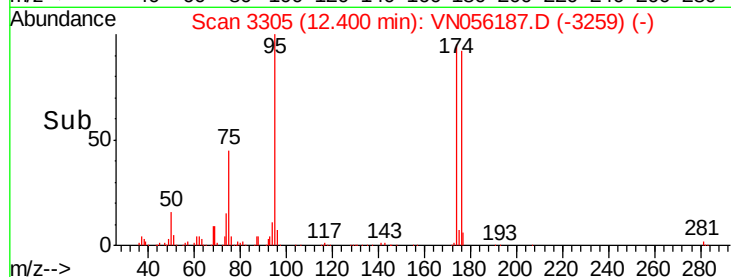
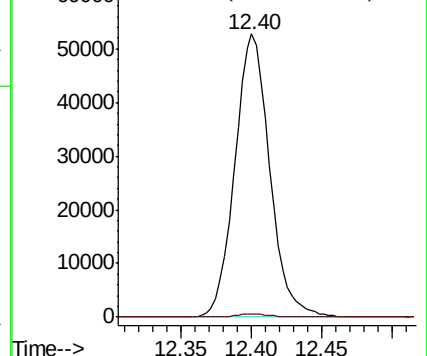
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN056187.D

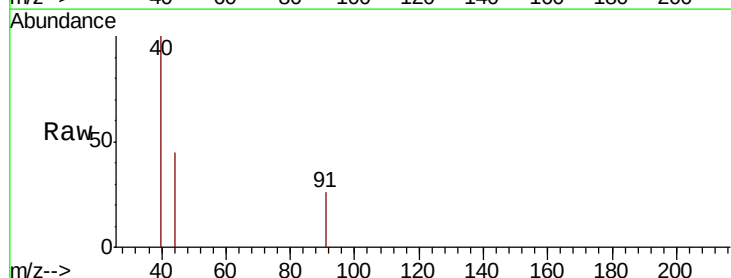
Acq: 10 Jun 2019 23:44

Tgt Ion: 91 Resp: 248

Ion Ratio Lower Upper

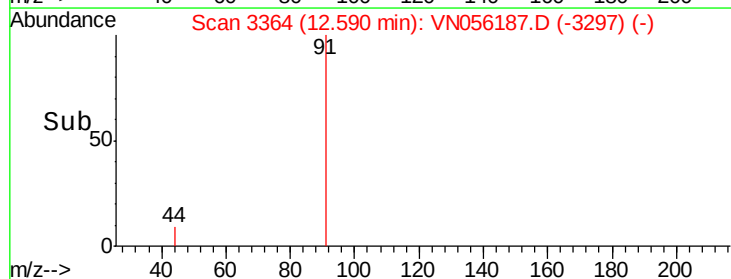
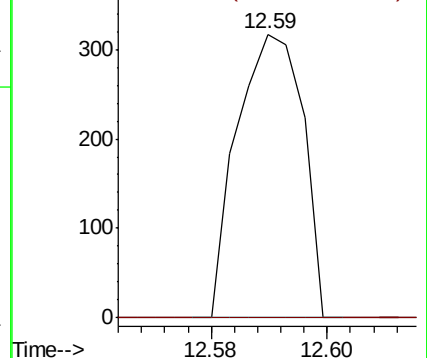
91 100

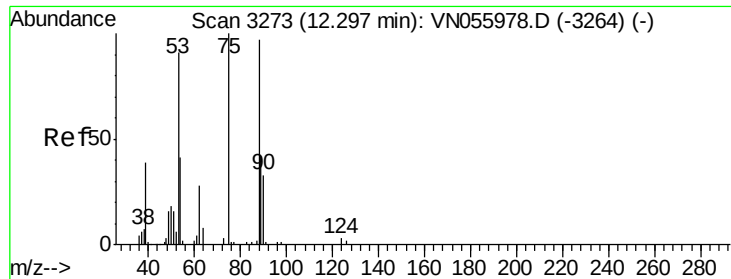
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

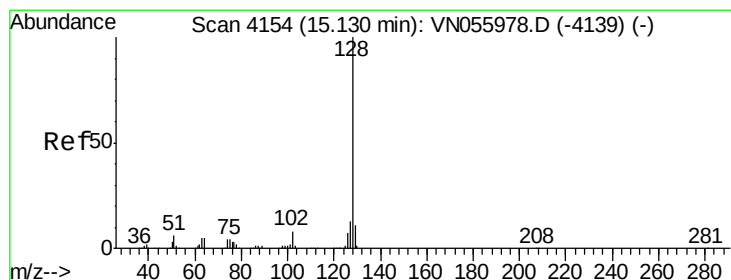
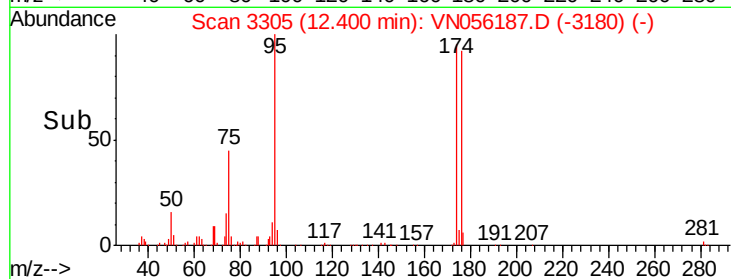
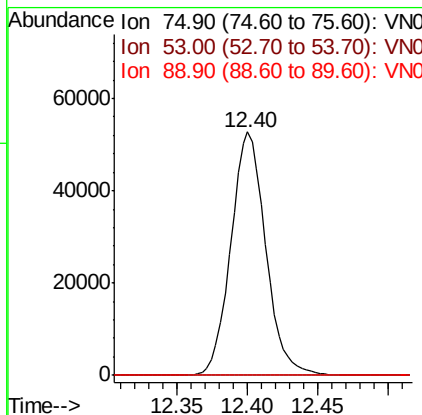
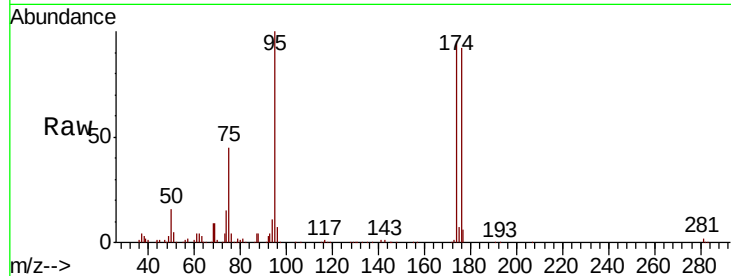




#81
trans-1,4-Dichloro-2-butene
Concen: 103.535 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

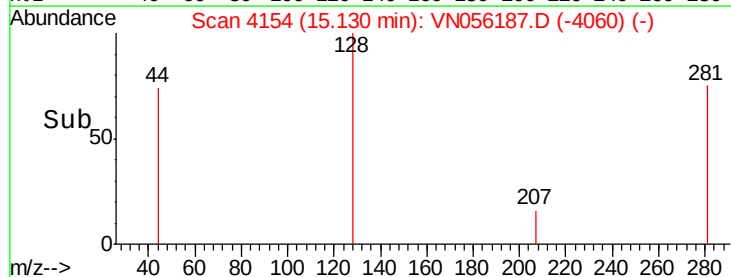
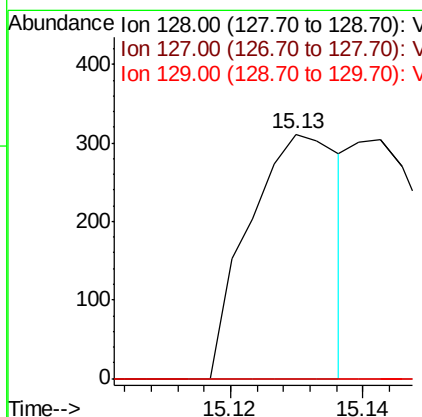
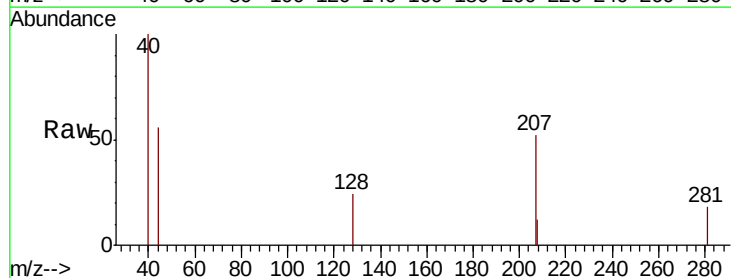
Instrument :
MSVOA_N
ClientSampleId :

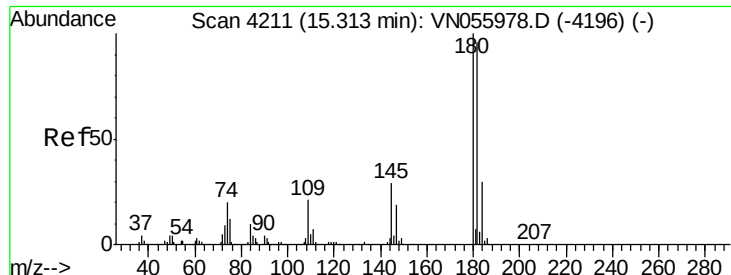
Tot Ion: 75 Resp: 91187
Ion Ratio Lower Upper
75 100
53 0.0 68.1 102.1#
89 0.0 36.9 55.3#



#95
Naphthalene
Concen: 3.887 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN056187.D
Acq: 10 Jun 2019 23:44

Tgt Ion: 128 Resp: 295
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.7 13.1#

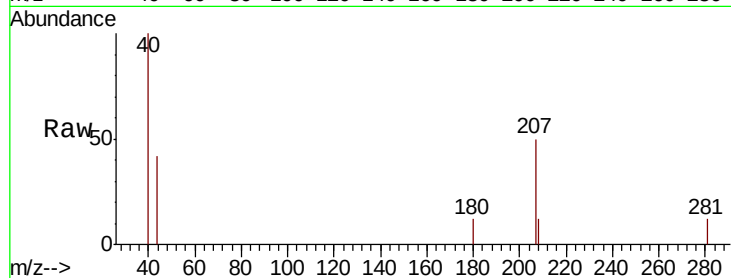




#96
 1,2,3-Trichlorobenzene
 Concen: 3.089 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN056187.D
 Acq: 10 Jun 2019 23:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.7#
145	0.0	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

