

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058964.D
 Acq On : 24 Oct 2019 16:18
 Operator : JC/SP
 Sample : K5507-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 01:25:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	351596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	554920	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	493071	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	175013	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	266441	51.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.34%	
35) Dibromofluoromethane	7.57	113	190191	52.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.26%	
50) Toluene-d8	10.09	98	712115	50.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.56%	
62) 4-Bromofluorobenzene	12.40	95	223893	43.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.10%	

Target Compounds

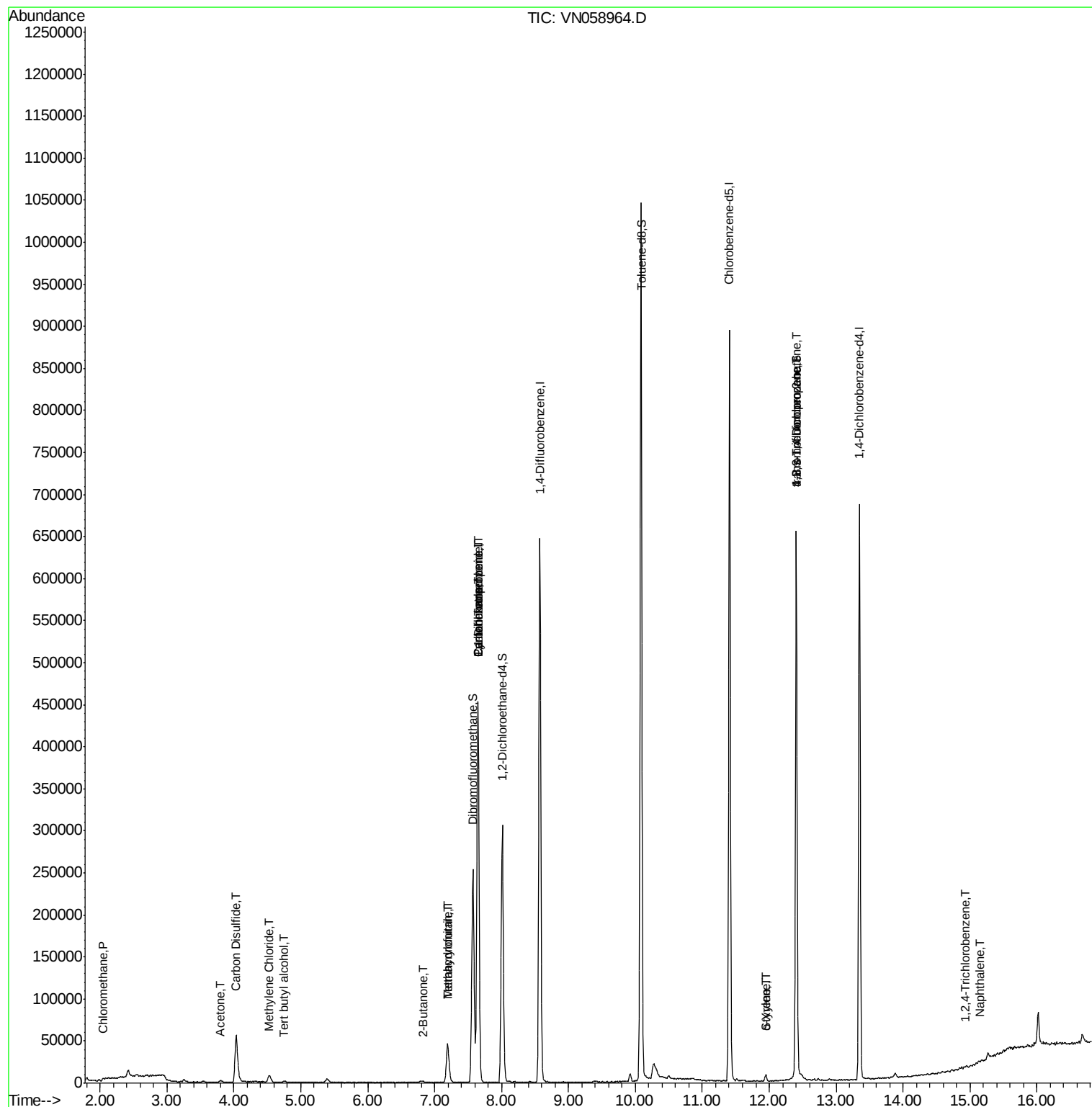
						Qvalue
3) Chloromethane	2.04	50	1866	0.344	ug/l	98
11) Tert butyl alcohol	4.74	59	1232	1.440	ug/l #	72
16) Acetone	3.80	43	3836	1.505	ug/l #	82
17) Carbon Disulfide	4.03	76	3567	0.319	ug/l #	75
20) Methylene Chloride	4.52	84	3484	0.801	ug/l	90
25) 2-Butanone	6.84	43	1033	0.312	ug/l #	51
29) Tetrahydrofuran	7.20	42	38364	18.960	ug/l	100
31) Cyclohexane	7.65	56	8863	1.196	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	29799	5.245	ug/l #	52
38) Carbon Tetrachloride	7.64	117	34899	5.963	ug/l #	17
41) Methacrylonitrile	7.19	41	24734	8.971	ug/l #	100
69) o-Xylene	11.95	106	2226	0.357	ug/l	100
70) Styrene	11.95	104	64	1.719	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	119436	29.446	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119436	76.709	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.92	180	98	2.547	ug/l #	13
95) Naphthalene	15.14	128	679	2.290	ug/l #	70

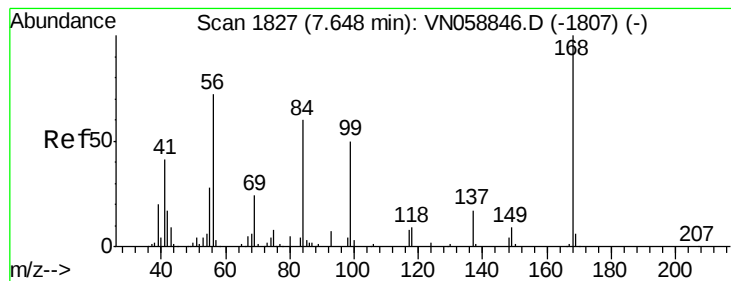
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

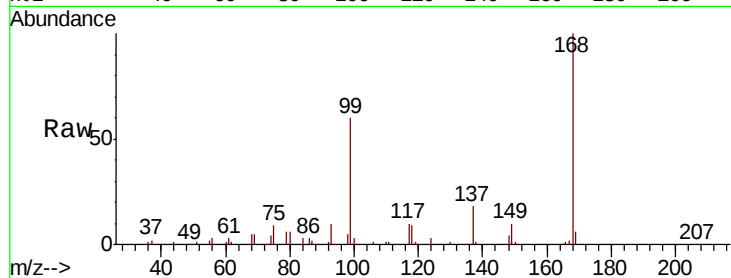
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 351596

Ion Ratio Lower Upper

168 100

99 60.0 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

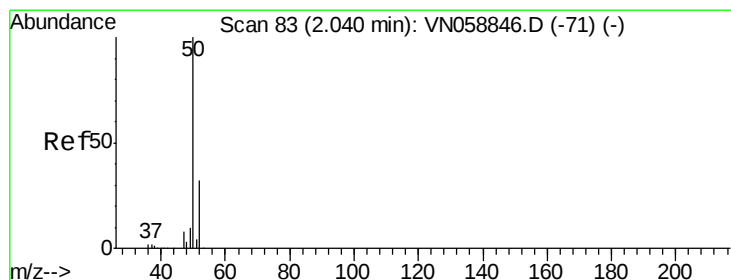
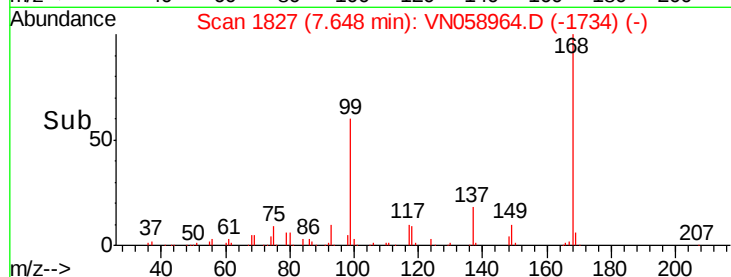
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.344 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058964.D

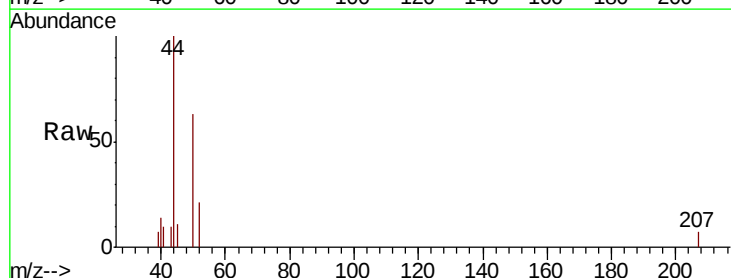
Acq: 24 Oct 2019 16:18

Tgt Ion: 50 Resp: 1866

Ion Ratio Lower Upper

50 100

52 33.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

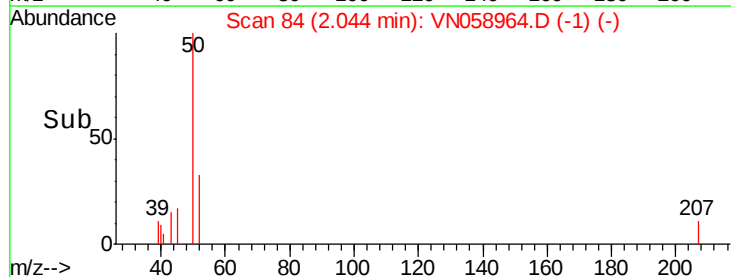
1500

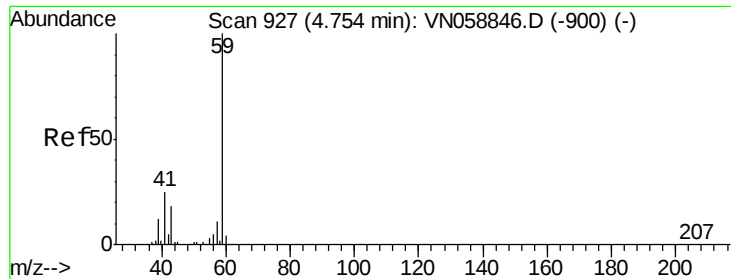
1000

500

0

Time-->



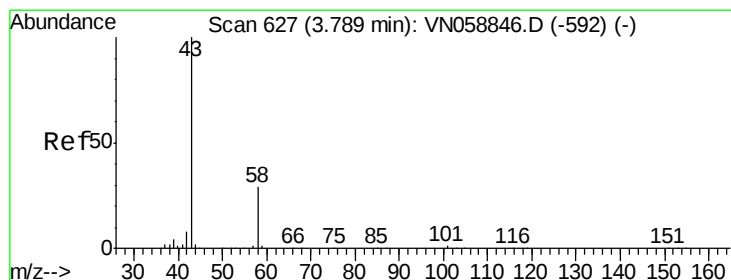
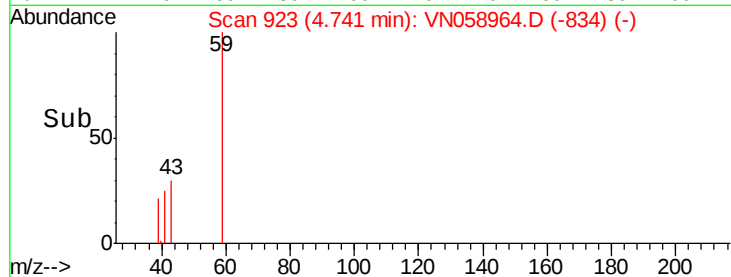
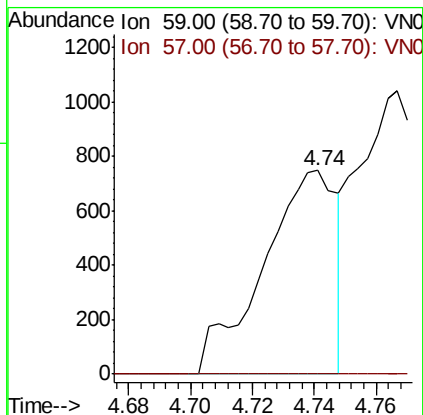
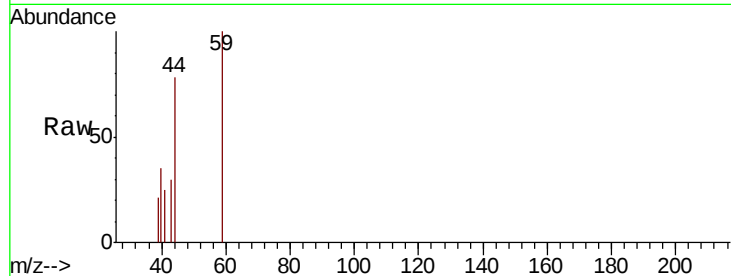


#11

Tert butyl alcohol
Concen: 1.440 ug/l
RT: 4.74 min Scan# 923
Delta R.T. -0.01 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Instrument :
MSVOA_N
ClientSampled :

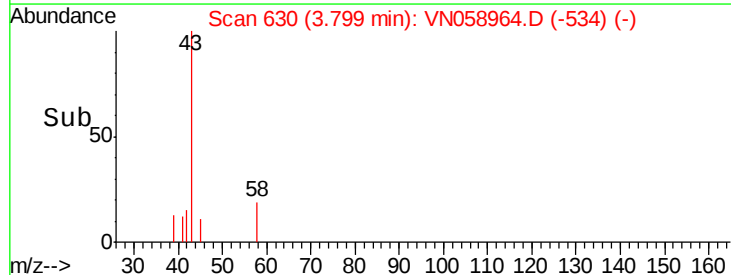
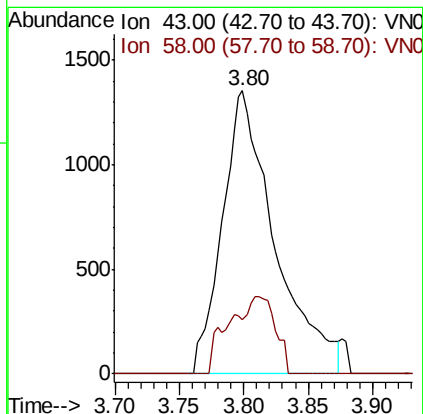
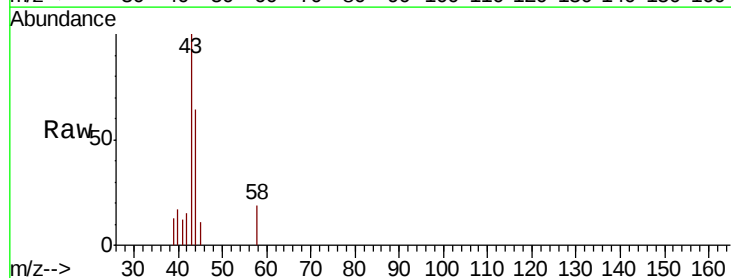
Tot Ion: 59 Resp: 1232
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

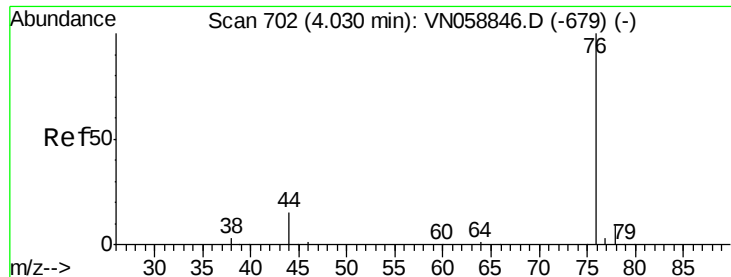


#16

Acetone
Concen: 1.505 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.01 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Tgt Ion: 43 Resp: 3836
Ion Ratio Lower Upper
43 100
58 19.2 23.1 34.7#





#17

Carbon Disulfide

Concen: 0.319 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

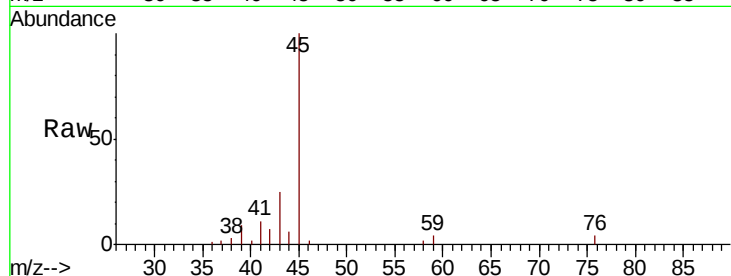
ClientSampled :

Tot Ion: 76 Resp: 3567

Ion Ratio Lower Upper

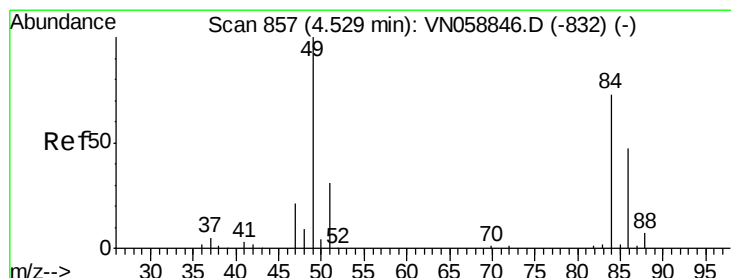
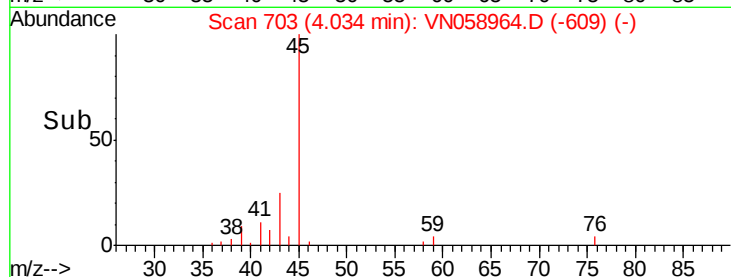
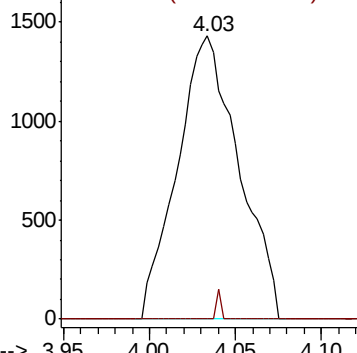
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#20

Methylene Chloride

Concen: 0.801 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Tgt Ion: 84 Resp: 3484

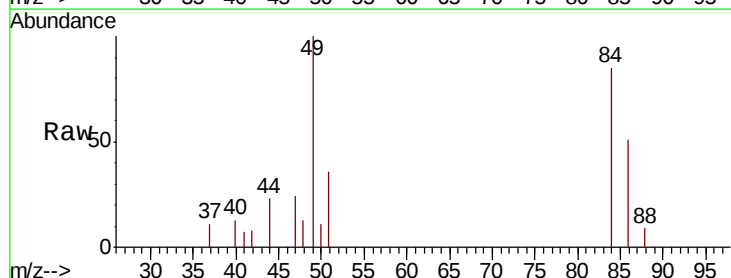
Ion Ratio Lower Upper

84 100

49 118.3 109.6 164.4

51 42.1 33.8 50.6

86 59.8 51.5 77.3

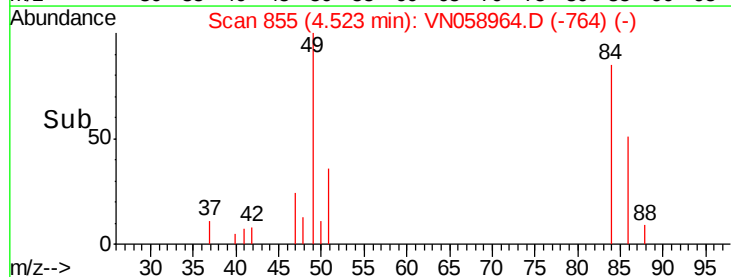
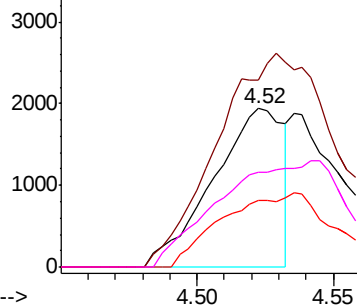


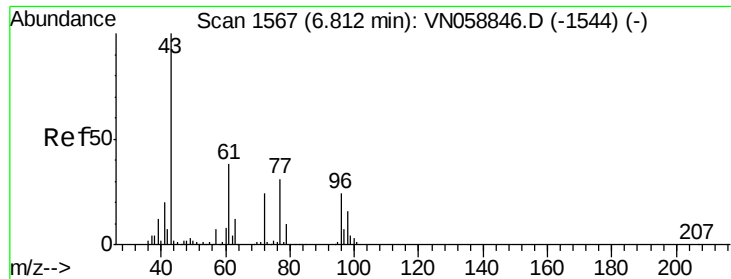
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





#25

2-Butanone

Concen: 0.312 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.03 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

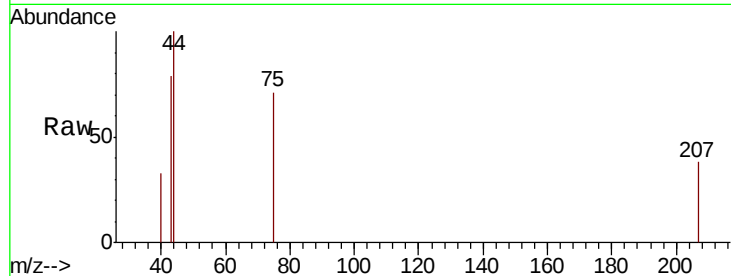
ClientSampleId :

Tot Ion: 43 Resp: 1033

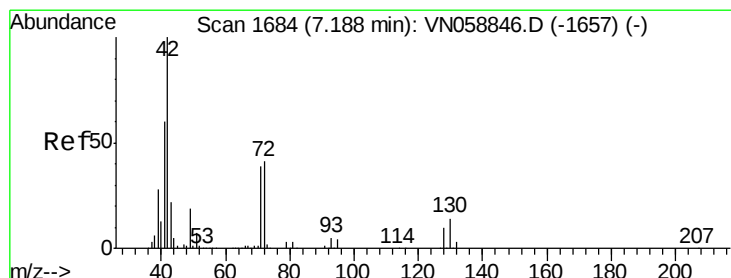
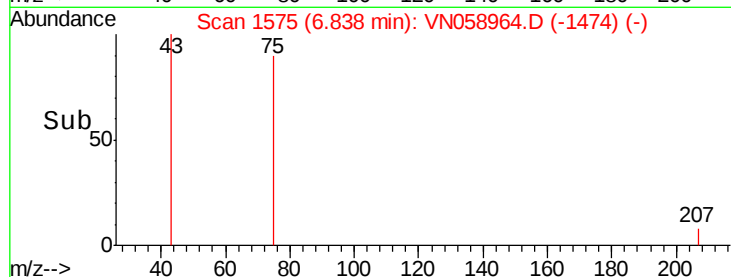
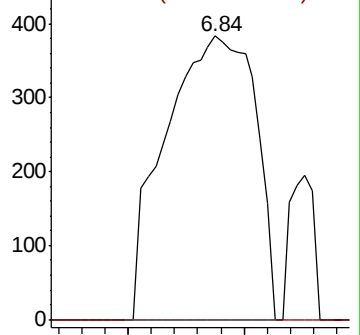
Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0



#29

Tetrahydrofuran

Concen: 18.960 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

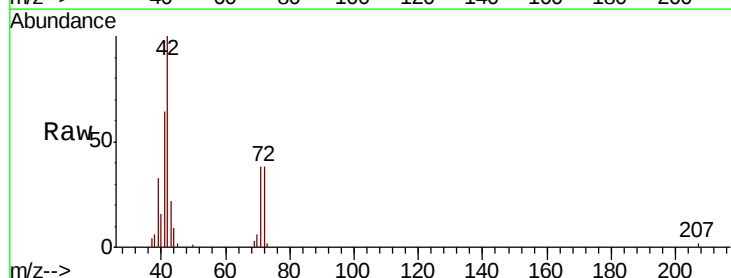
Tgt Ion: 42 Resp: 38364

Ion Ratio Lower Upper

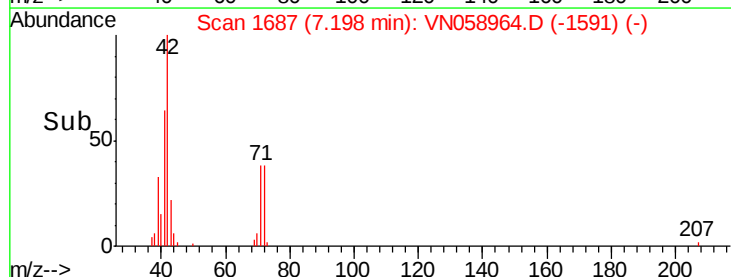
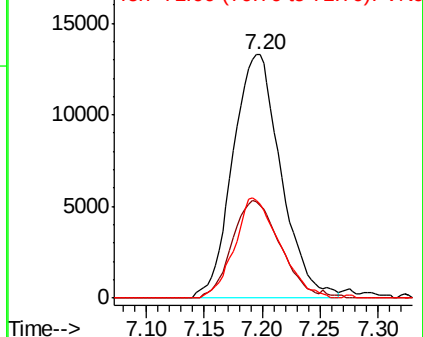
42 100

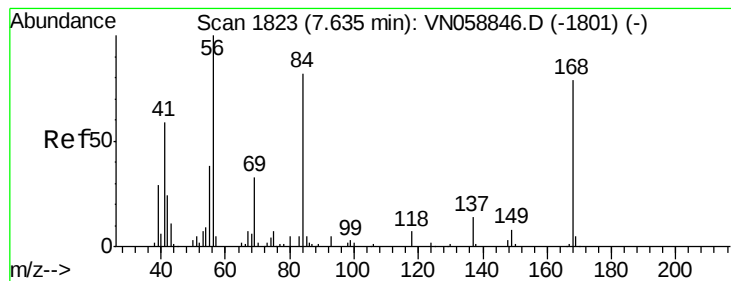
72 40.3 32.2 48.2

71 38.6 30.6 45.8



Abundance Ion 42.00 (41.70 to 42.70): VN0





#31

Cyclohexane

Concen: 1.196 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

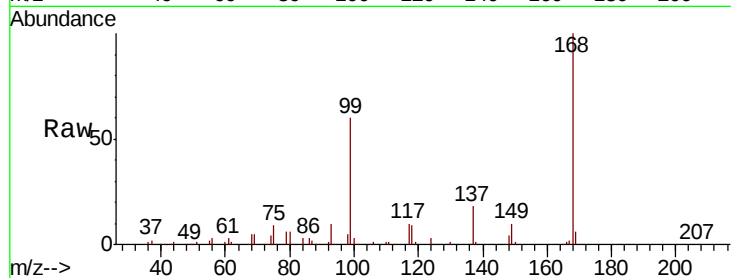
Tot Ion: 56 Resp: 8863

Ion Ratio Lower Upper

56 100

69 177.5 26.2 39.4#

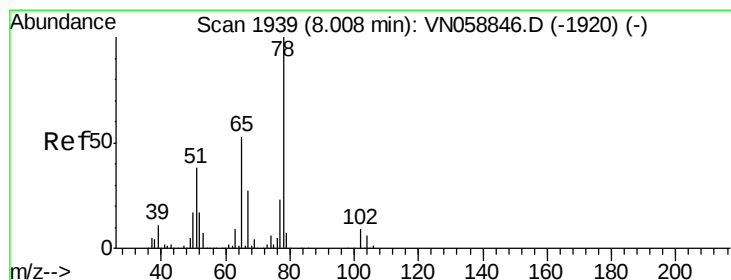
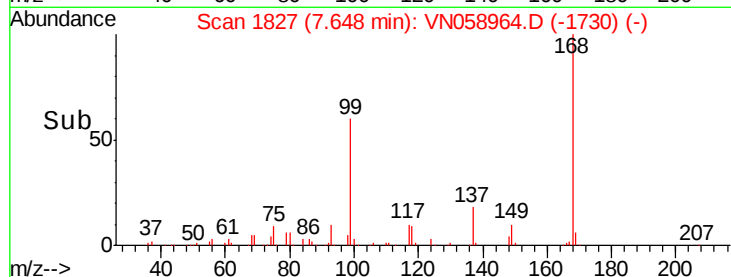
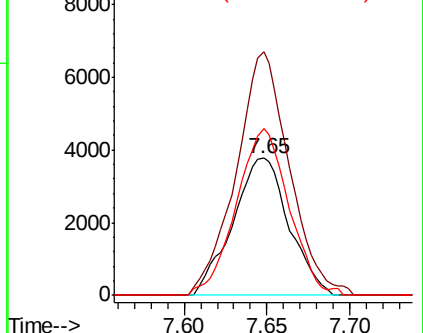
84 121.5 65.6 98.4#



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: 51.669 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN058964.D

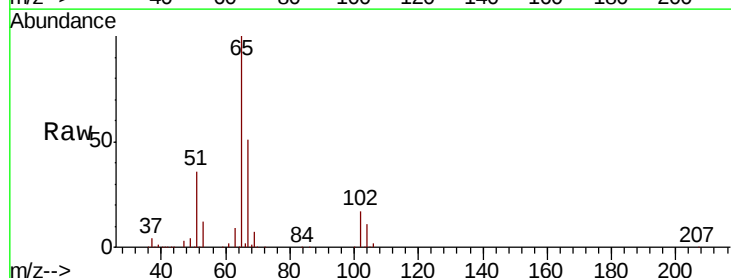
Acq: 24 Oct 2019 16:18

Tgt Ion: 65 Resp: 266441

Ion Ratio Lower Upper

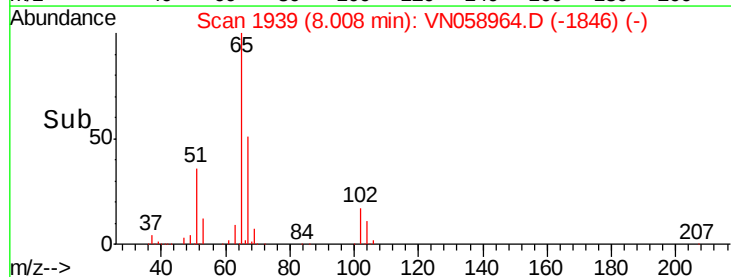
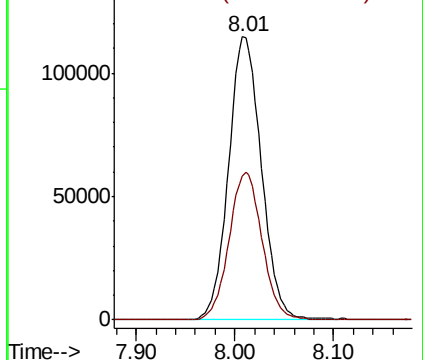
65 100

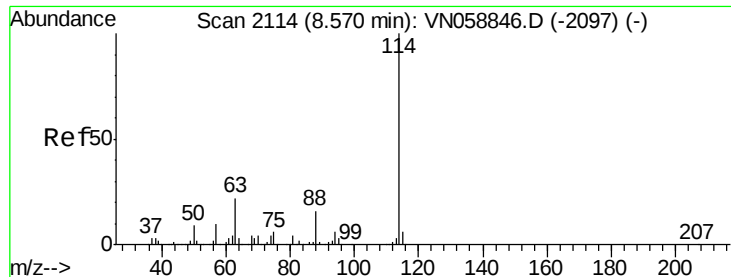
67 52.3 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

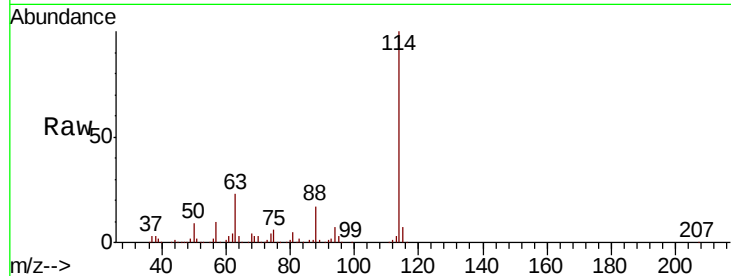




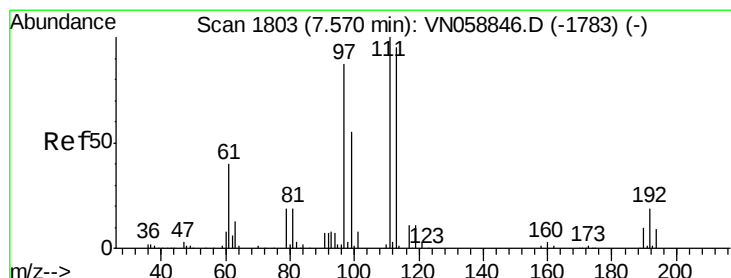
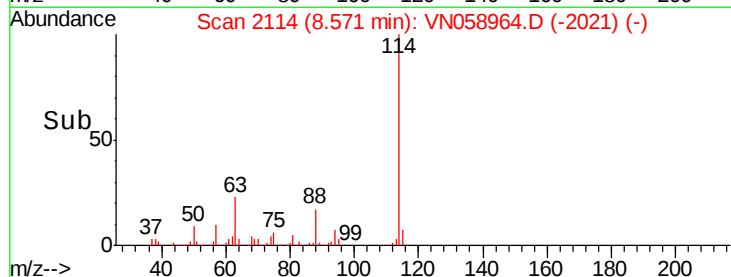
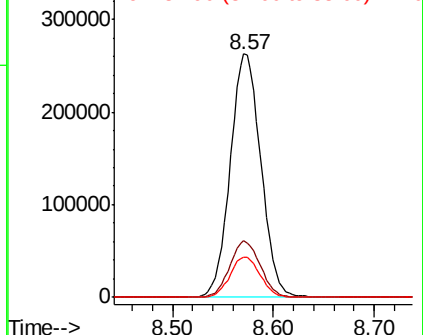
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	44.4
88	16.7	0.0	31.4

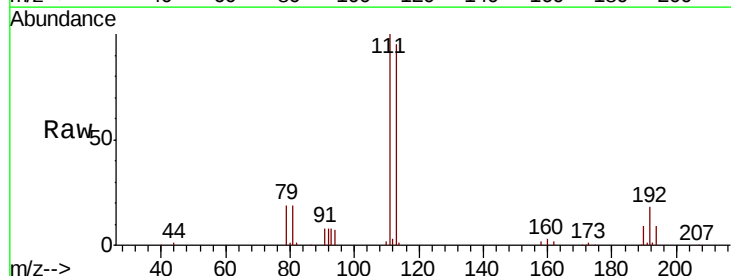


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

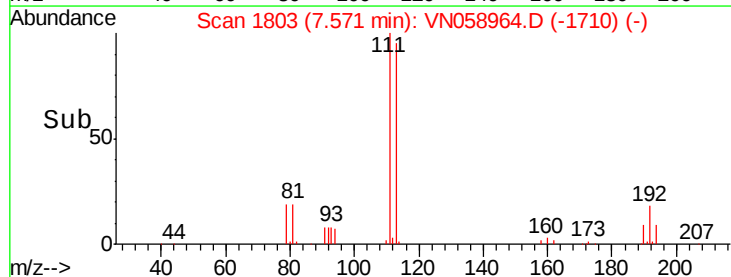
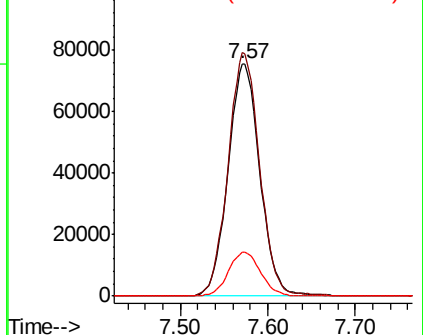


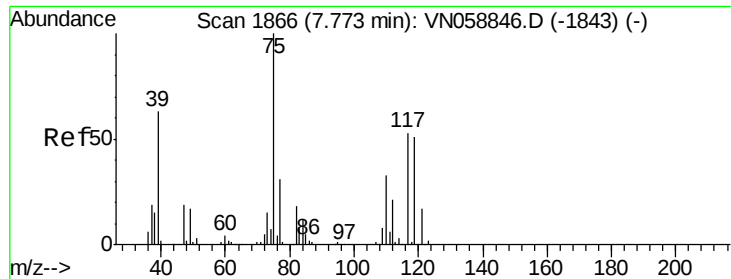
#35
 Dibromofluoromethane
 Concen: 52.129 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.0	123.0
192	19.2	15.0	22.6



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

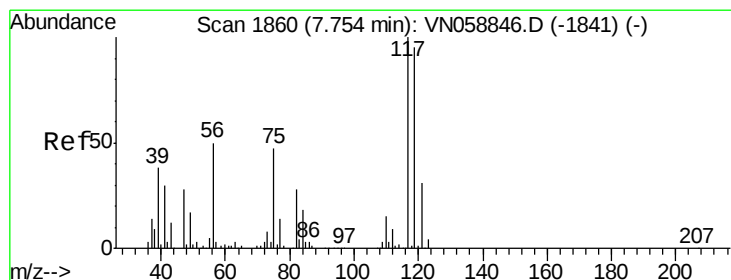
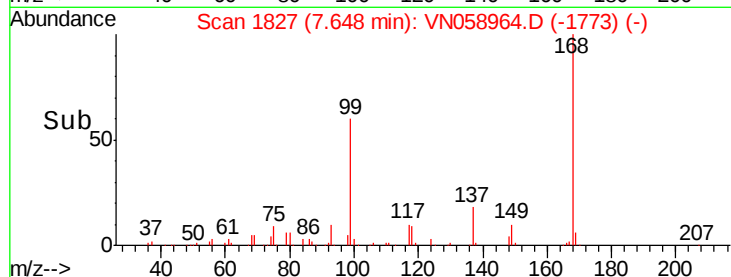
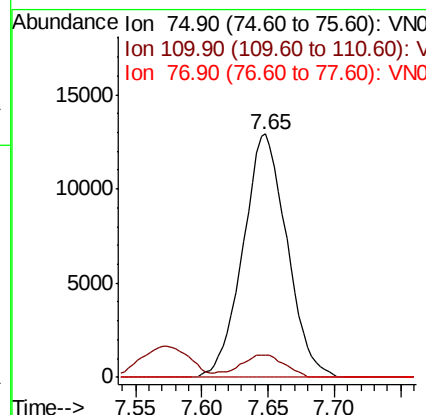
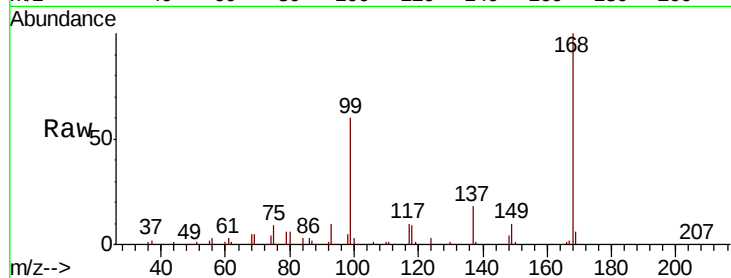




#36
 1,1-Dichloropropene
 Concen: 5.245 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

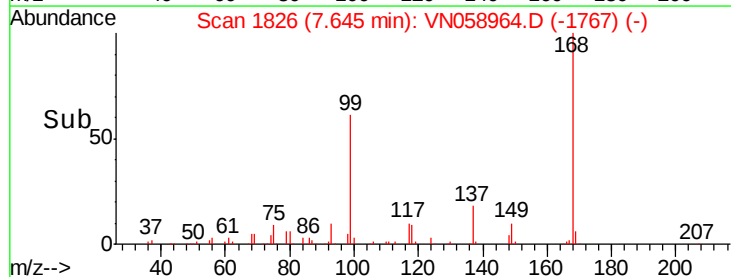
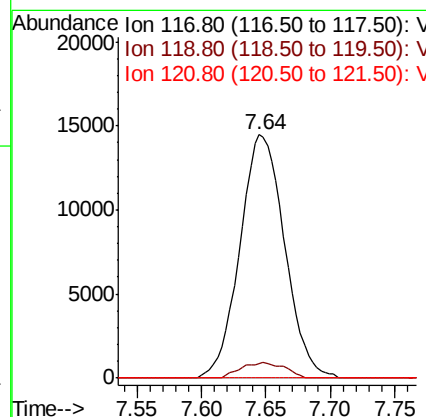
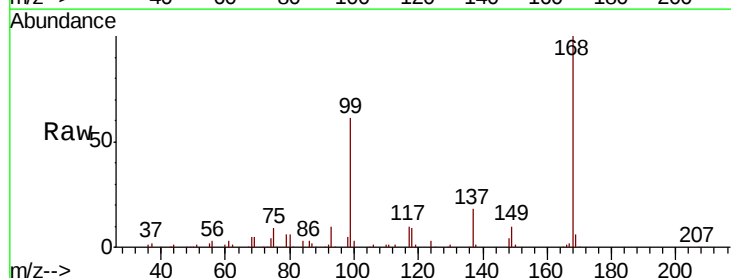
Instrument :
 MSVOA_N
 ClientSampleID :

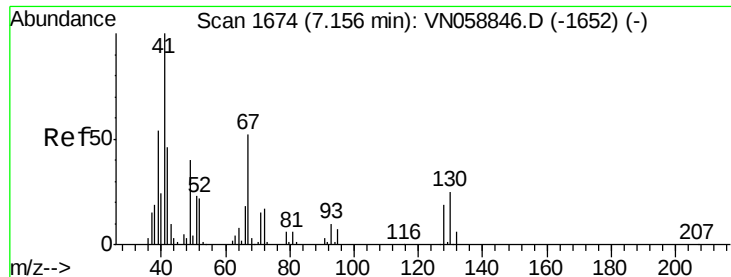
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.963 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	75.7	113.5#
121	0.0	25.0	37.6#

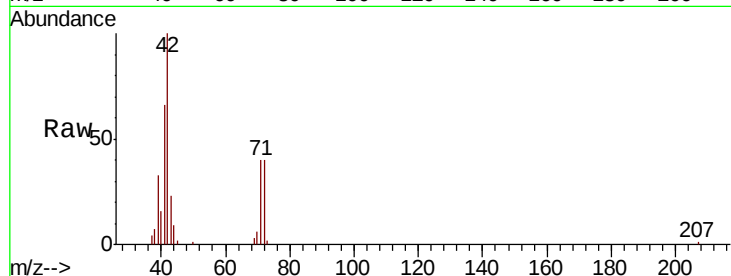




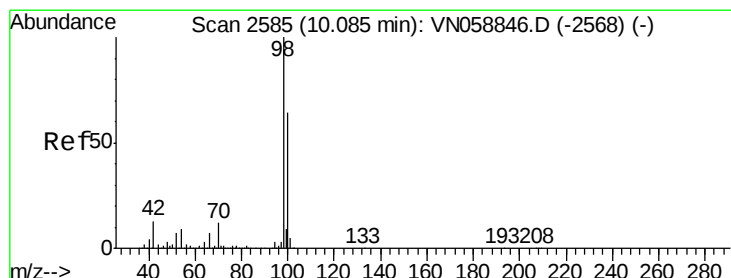
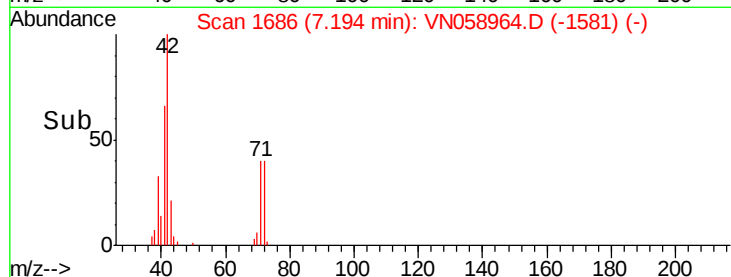
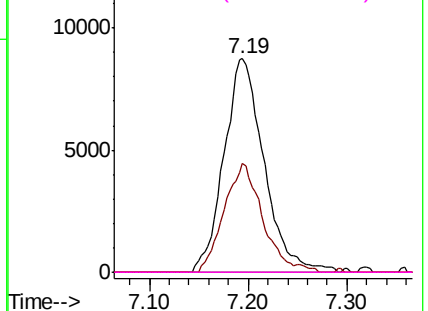
#41
Methacrylonitrile
Concen: 8.971 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.04 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	41	Resp:	24734
Ion	Ratio	Lower	Upper
41	100		
39	49.2	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

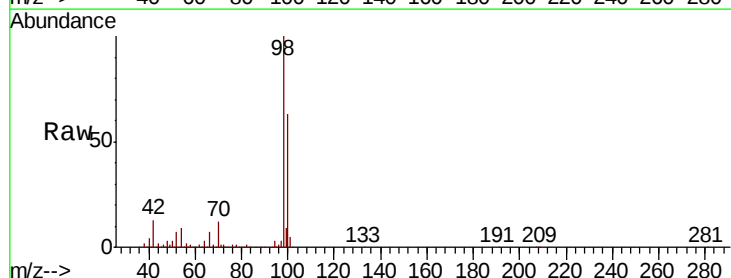


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

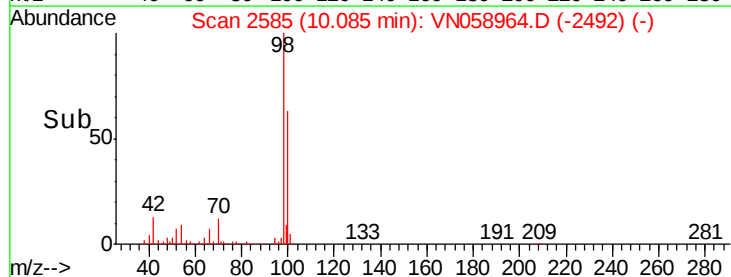
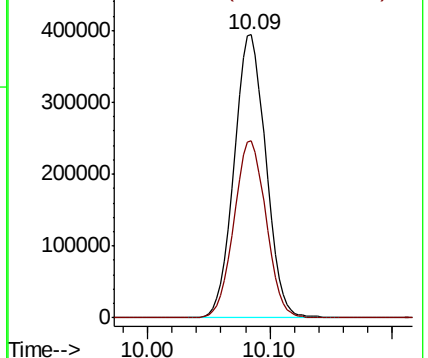


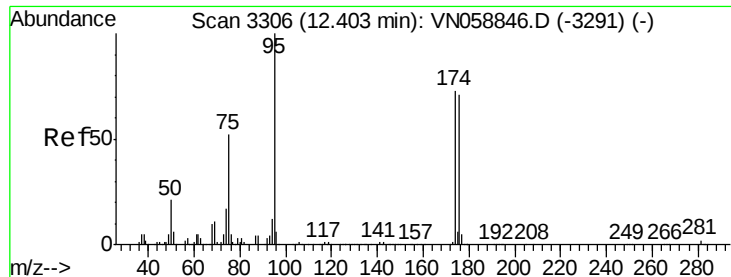
#50
Toluene-d8
Concen: 50.281 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Tgt Ion:	98	Resp:	712115
Ion	Ratio	Lower	Upper
98	100		
100	63.1	51.4	77.2



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC





#62

4-Bromofluorobenzene

Concen: 43.048 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

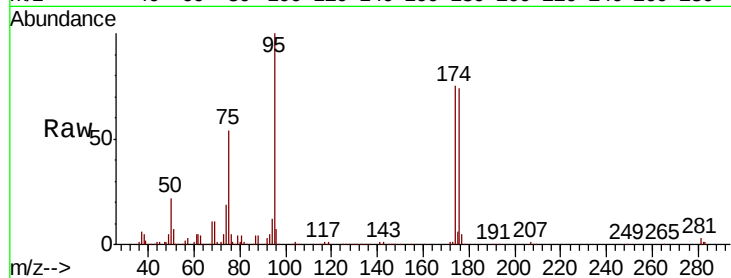
Tot Ion: 95 Resp: 223893

Ion Ratio Lower Upper

95 100

174 75.7 0.0 147.6

176 73.6 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)

12.40

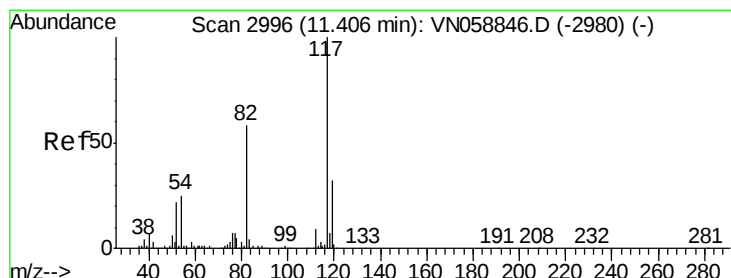
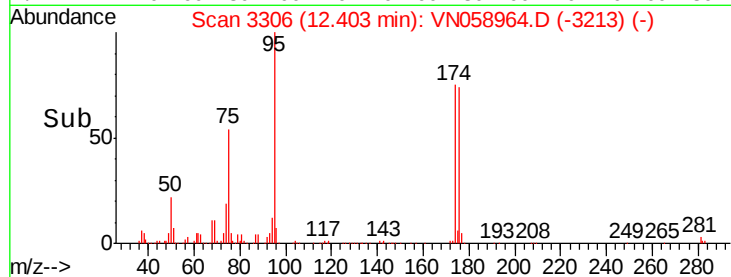
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

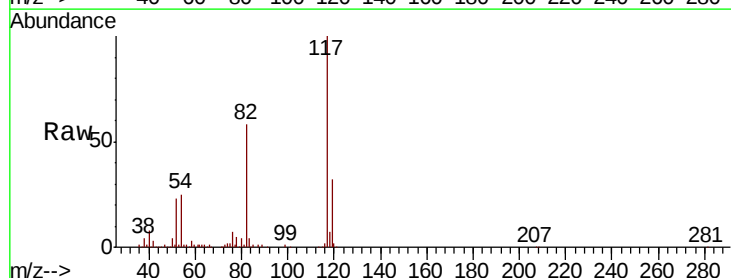
Tgt Ion: 117 Resp: 493071

Ion Ratio Lower Upper

117 100

82 58.1 46.6 69.8

119 31.9 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)

11.41

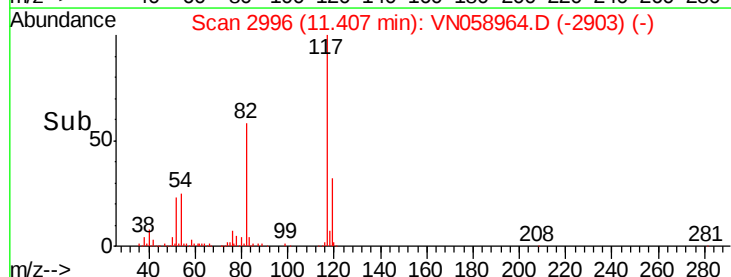
300000

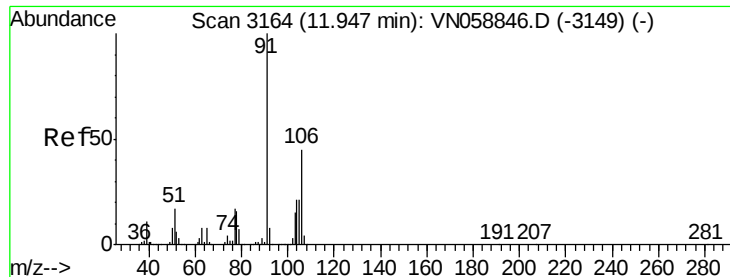
200000

100000

0

Time--> 11.30 11.40 11.50

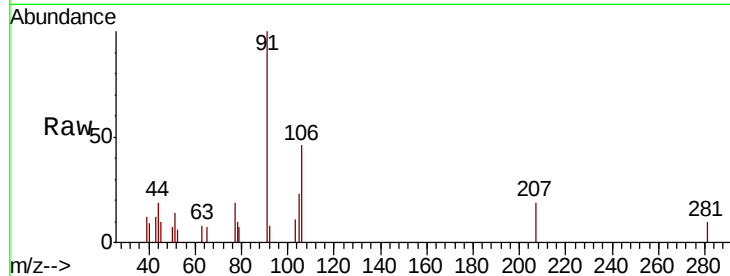




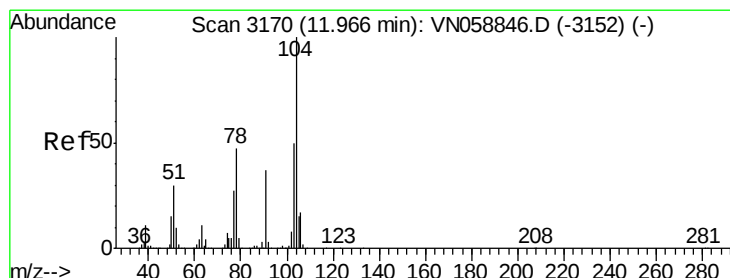
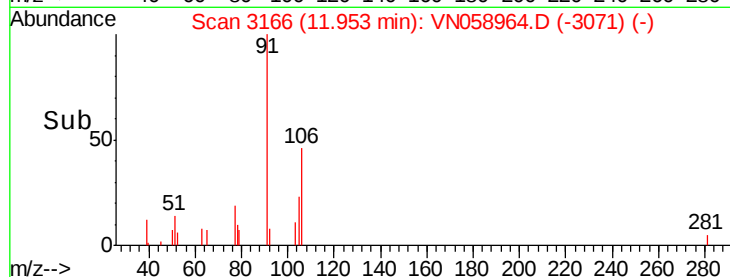
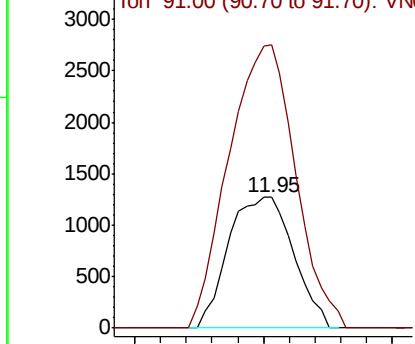
#69
o-Xylene
Concen: 0.357 ug/l
RT: 11.95 min Scan# 3166
Delta R.T. 0.01 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 2226
Ion Ratio Lower Upper
106 100
91 222.6 111.5 334.4

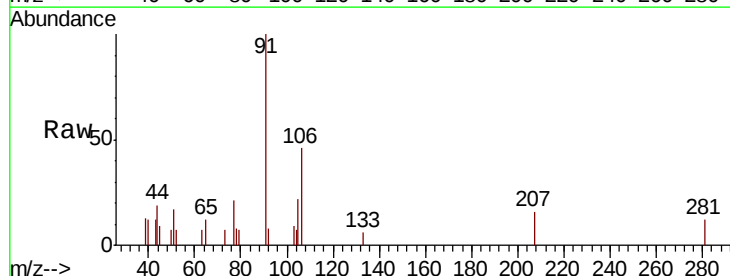


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

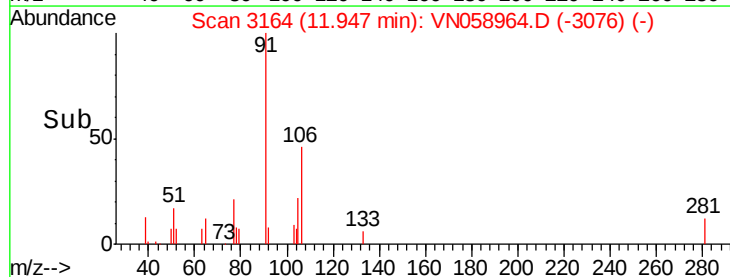
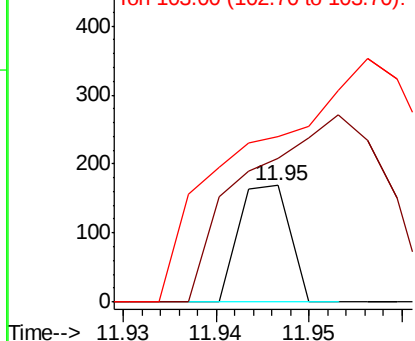


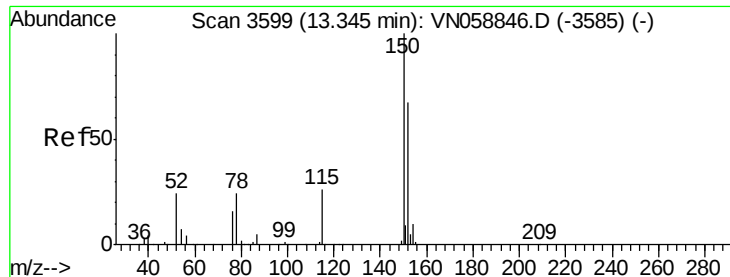
#70
Styrene
Concen: 1.719 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.02 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Tgt Ion:104 Resp: 64
Ion Ratio Lower Upper
104 100
78 435.9 42.8 64.2#
103 690.6 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): 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: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

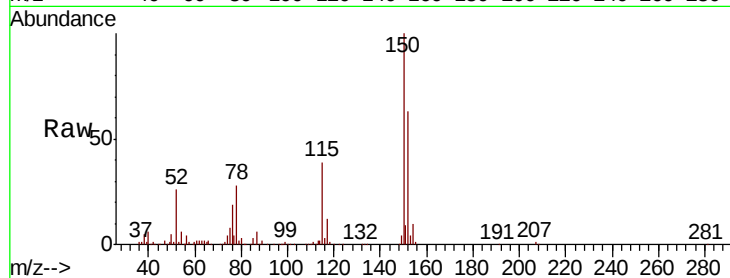
Tot Ion:152 Resp: 175013

Ion Ratio Lower Upper

152 100

115 61.4 30.5 91.5

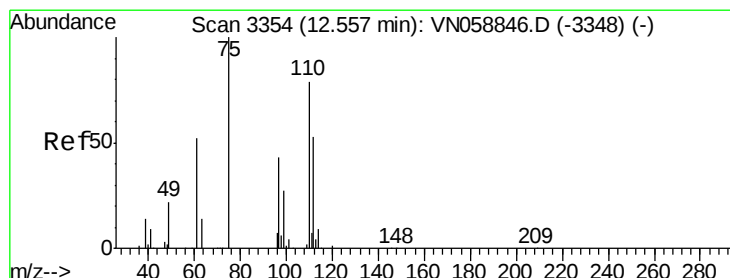
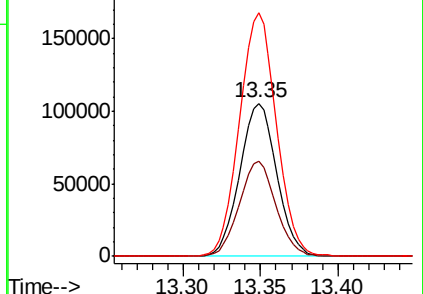
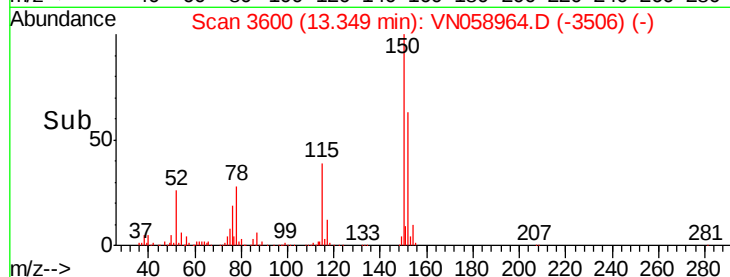
150 159.3 0.0 344.4



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: 29.446 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058964.D

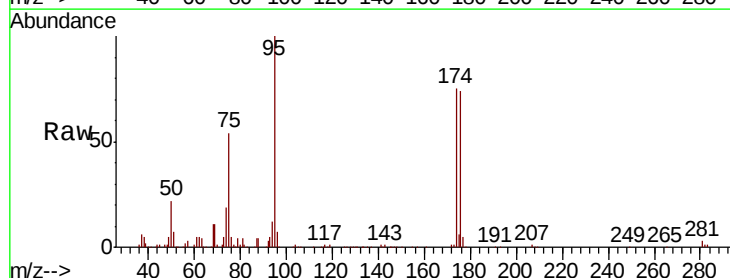
Acq: 24 Oct 2019 16:18

Tgt Ion: 75 Resp: 119436

Ion Ratio Lower Upper

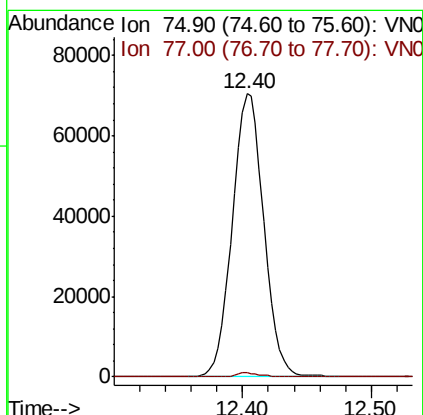
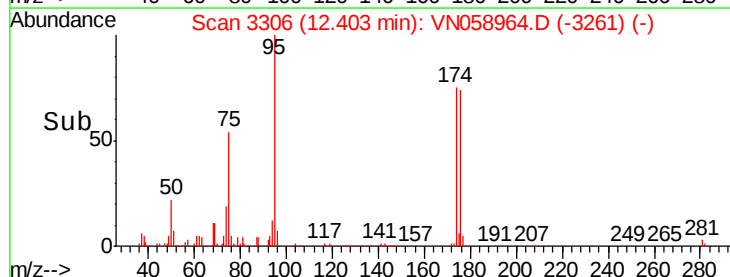
75 100

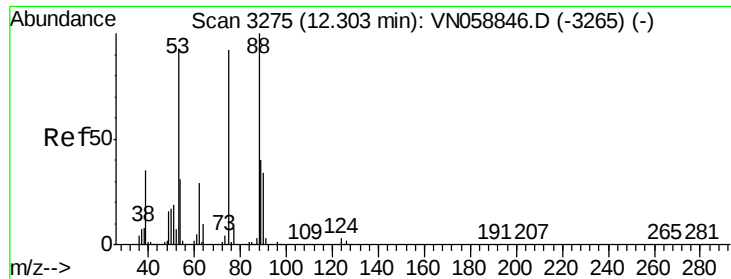
77 1.1 0.0 0.0#



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: 76.709 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampled :

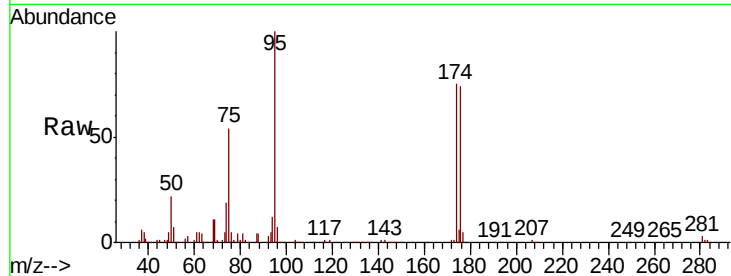
Tot Ion: 75 Resp: 119436

Ion Ratio Lower Upper

75 100

53 0.1 78.6 118.0#

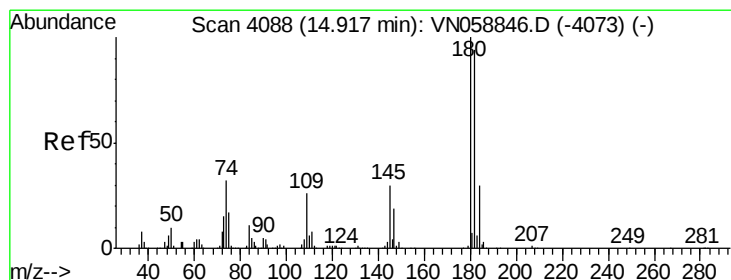
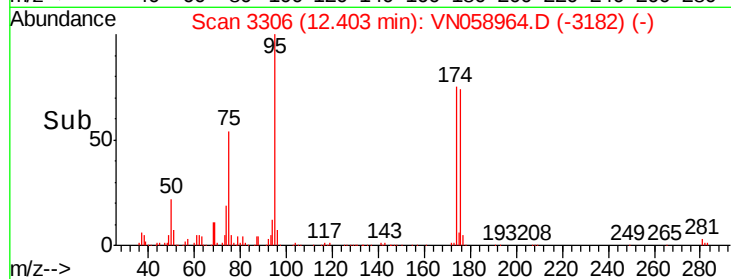
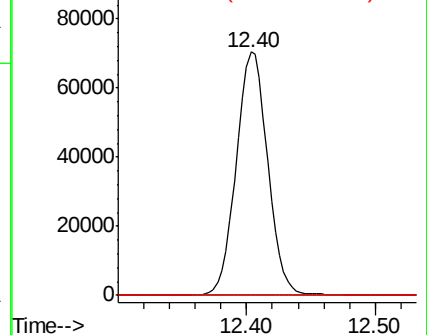
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN058846.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN058846.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.547 ug/l

RT: 14.92 min Scan# 4090

Delta R.T. 0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

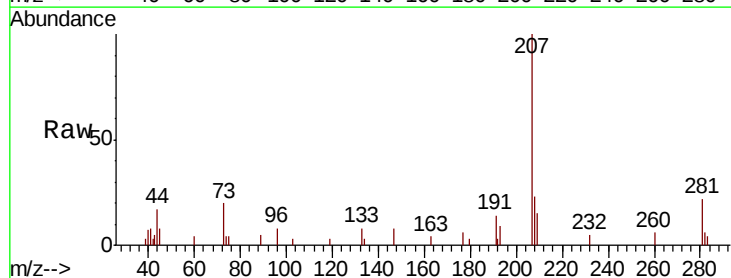
Tgt Ion: 180 Resp: 98

Ion Ratio Lower Upper

180 100

182 0.0 47.3 142.0#

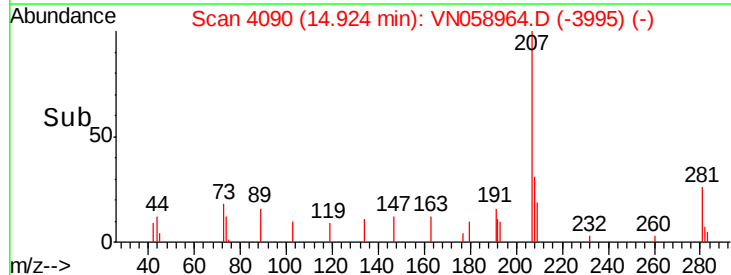
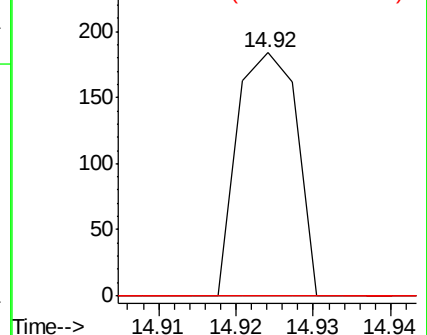
145 0.0 15.3 45.8#

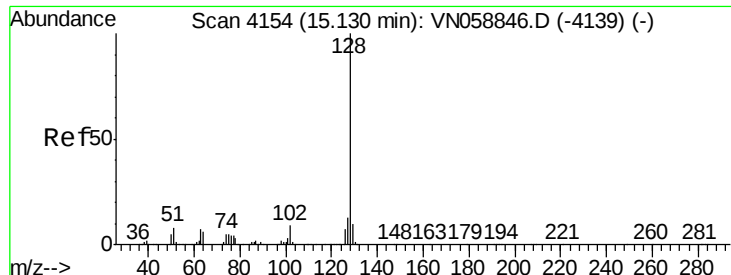


Abundance Ion 179.80 (179.50 to 180.50): VN058846.D (-4073) (-)

Ion 181.80 (181.50 to 182.50): VN058846.D (-4073) (-)

Ion 144.80 (144.50 to 145.50): VN058846.D (-4073) (-)





#95

Naphthalene

Concen: 2.290 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

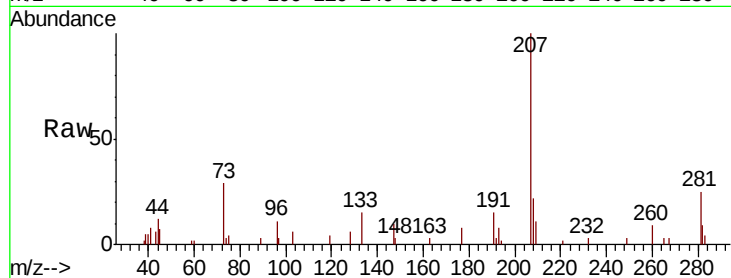
Tot Ion:128 Resp: 679

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.4 12.6#



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

