

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102419\
 Data File : VN058941.D
 Acq On : 23 Oct 2019 19:26
 Operator : JC/SP
 Sample : K5508-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 24 01:16:33 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	303430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	507283	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	455813	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	170890	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	251681	56.55	ug/l	0.00
Spiked Amount			Recovery	=	113.10%	
35) Dibromofluoromethane	7.57	113	175649	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
50) Toluene-d8	10.08	98	619779	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
62) 4-Bromofluorobenzene	12.40	95	202162	42.52	ug/l	0.00
Spiked Amount			Recovery	=	85.04%	

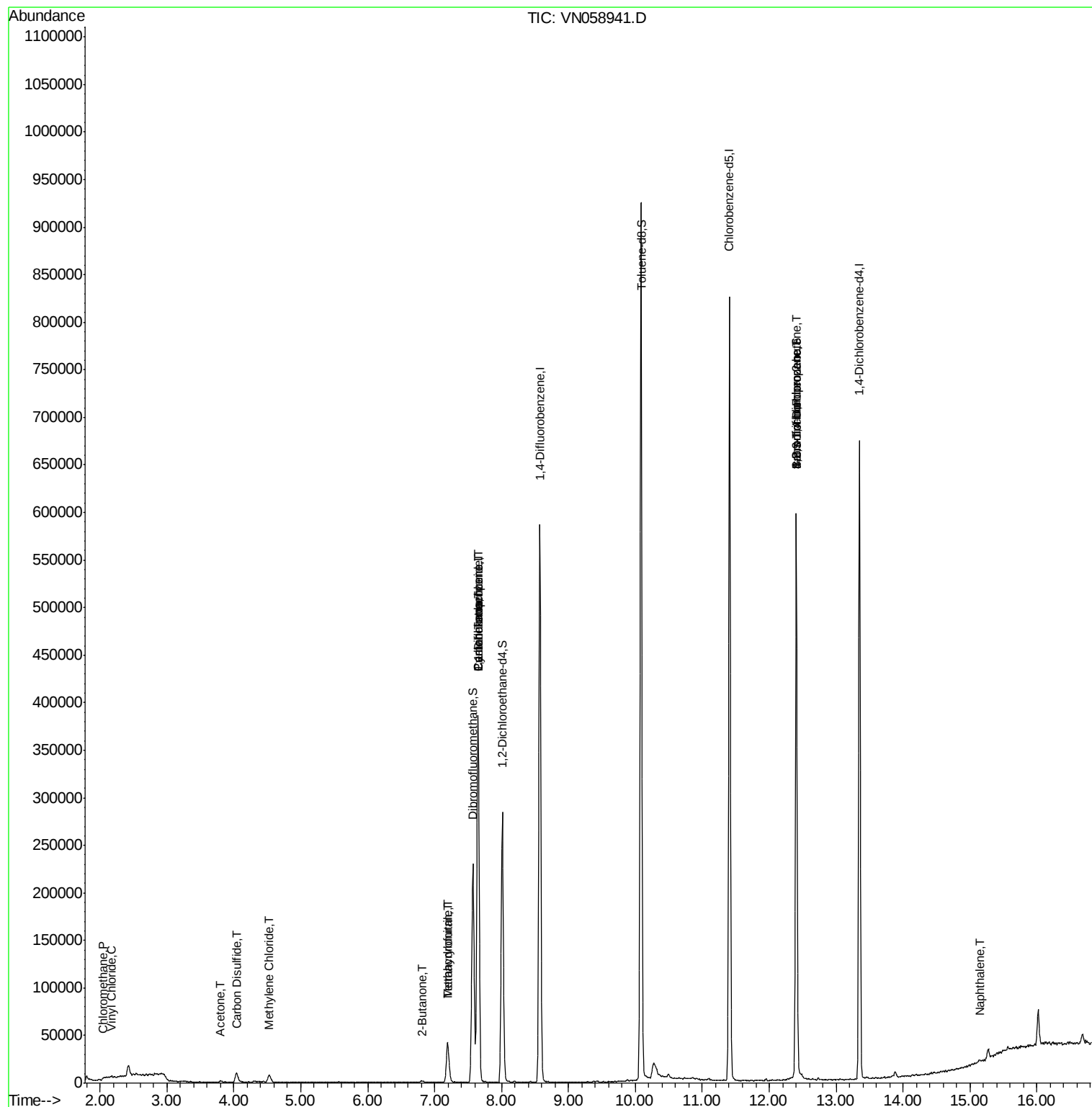
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1155	0.247	ug/l	94
4) Vinyl Chloride	2.17	62	1425	0.306	ug/l #	79
16) Acetone	3.80	43	1789	0.814	ug/l	93
17) Carbon Disulfide	4.03	76	4854	0.504	ug/l	99
20) Methylene Chloride	4.53	84	5983	1.593	ug/l	93
25) 2-Butanone	6.82	43	581	0.204	ug/l #	51
29) Tetrahydrofuran	7.19	42	35937	20.579	ug/l	98
31) Cyclohexane	7.65	56	7683	1.201	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	25824	4.972	ug/l #	51
38) Carbon Tetrachloride	7.65	117	29265	5.470	ug/l #	17
41) Methacrylonitrile	7.19	41	22452	8.908	ug/l #	100
71) Bromoform	12.40	173	923	0.340	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	108594	27.419	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	108594	71.428	ug/l #	10
95) Naphthalene	15.14	128	91	2.234	ug/l #	70

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

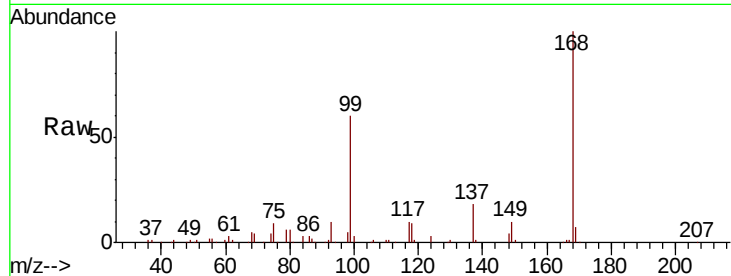
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 303430

Ion Ratio Lower Upper

168 100

99 60.4 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

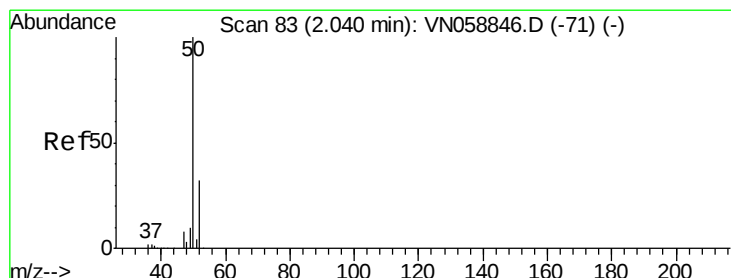
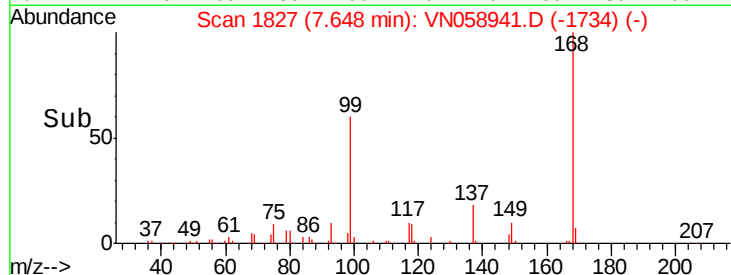
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.247 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058941.D

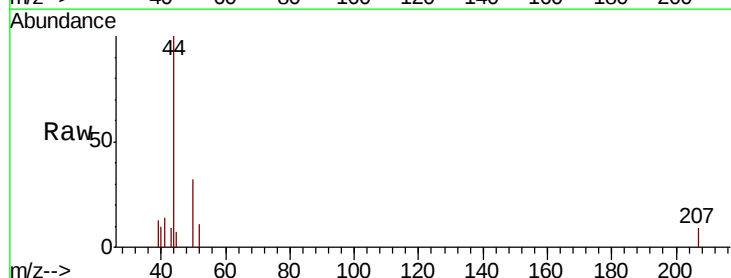
Acq: 23 Oct 2019 19:26

Tgt Ion: 50 Resp: 1155

Ion Ratio Lower Upper

50 100

52 35.6 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

800

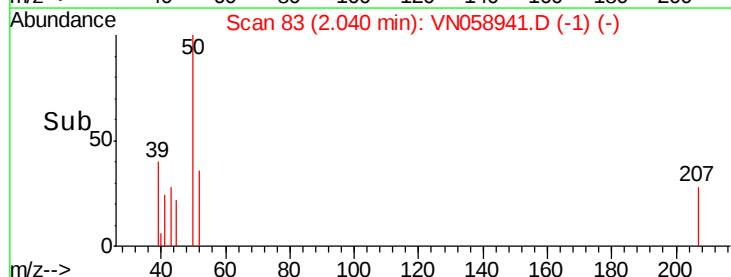
600

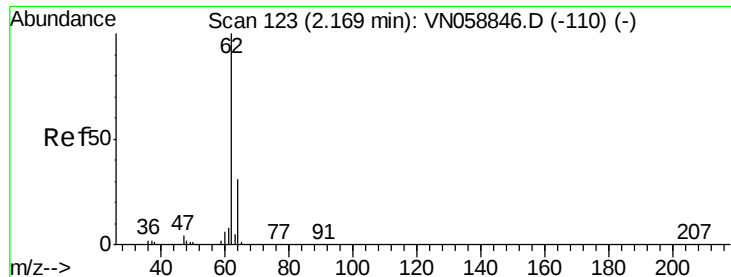
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.306 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

Instrument :

MSVOA_N

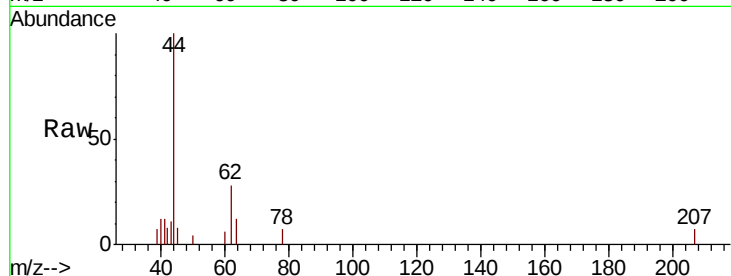
ClientSampled :

Tot Ion: 62 Resp: 1425

Ion Ratio Lower Upper

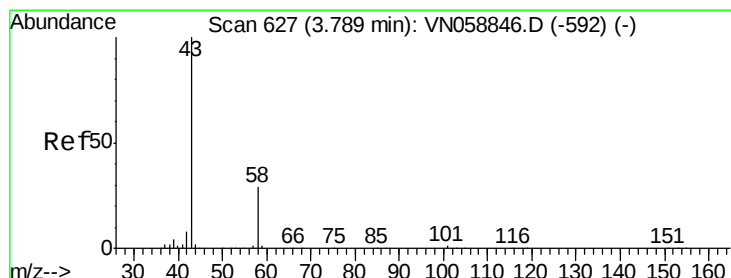
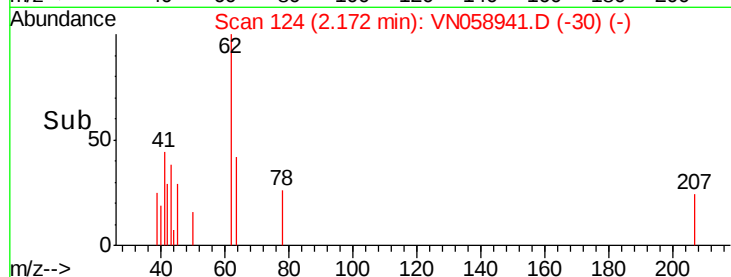
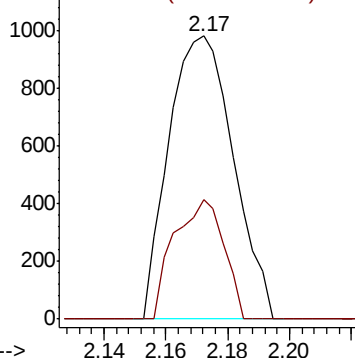
62 100

64 42.1 24.6 36.8#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#16

Acetone

Concen: 0.814 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058941.D

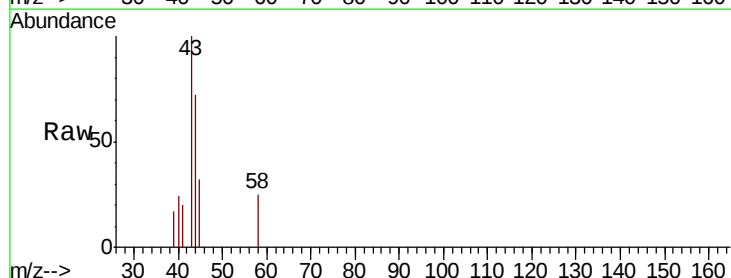
Acq: 23 Oct 2019 19:26

Tgt Ion: 43 Resp: 1789

Ion Ratio Lower Upper

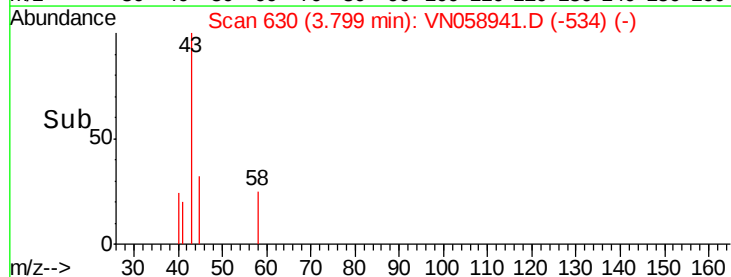
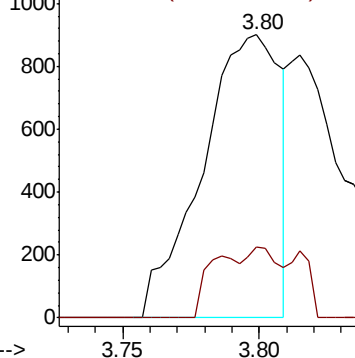
43 100

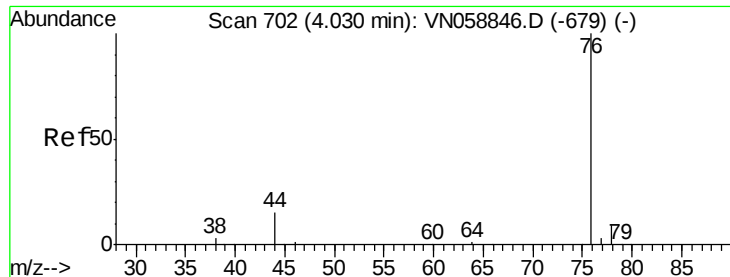
58 25.1 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

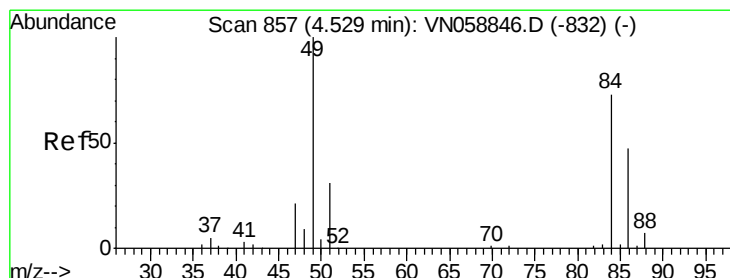
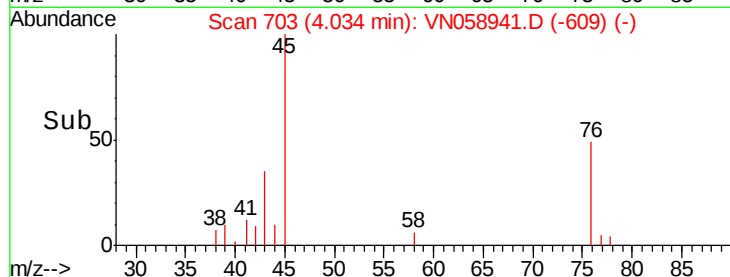
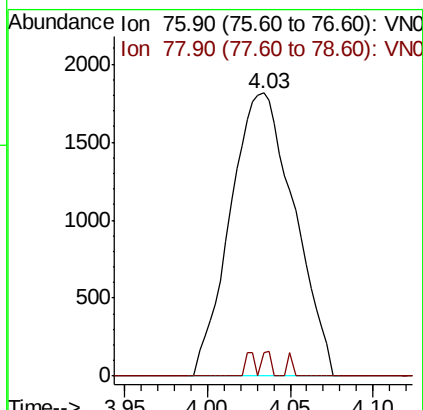
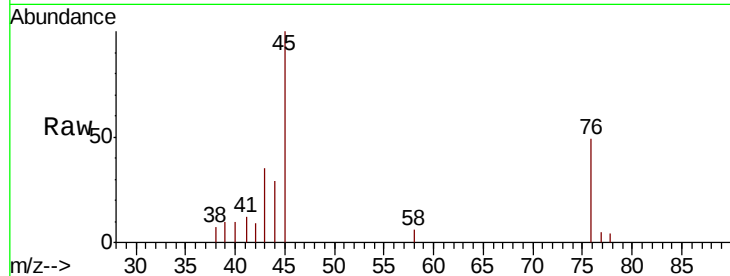




#17
Carbon Disulfide
Concen: 0.504 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN058941.D
Acq: 23 Oct 2019 19:26

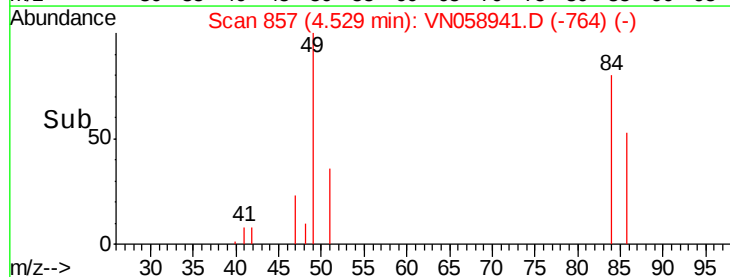
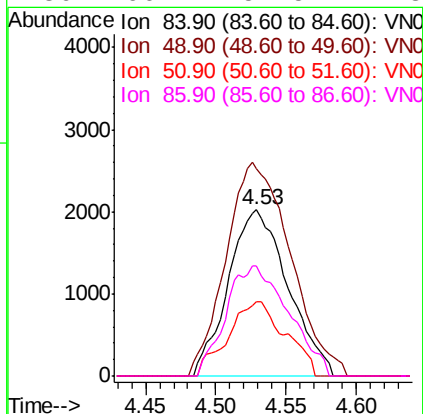
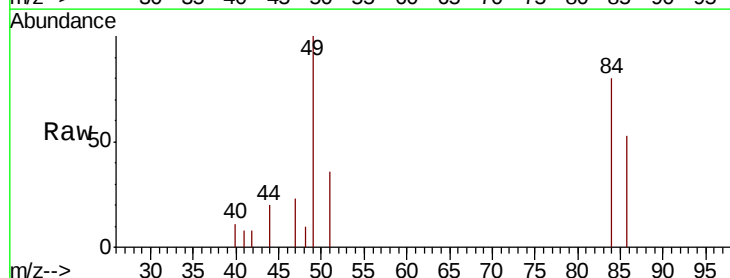
Instrument :
MSVOA_N
ClientSampled :

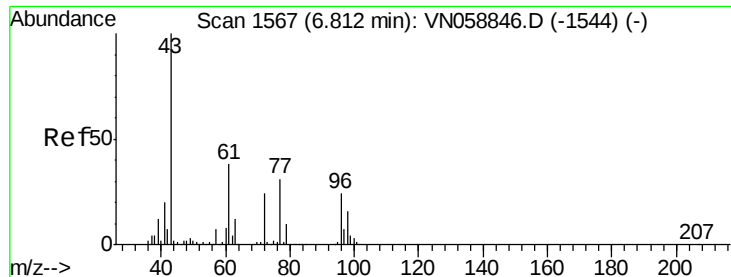
Tot Ion: 76 Resp: 4854
Ion Ratio Lower Upper
76 100
78 8.5 7.1 10.7



#20
Methylene Chloride
Concen: 1.593 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058941.D
Acq: 23 Oct 2019 19:26

Tgt Ion: 84 Resp: 5983
Ion Ratio Lower Upper
84 100
49 124.9 109.6 164.4
51 45.1 33.8 50.6
86 66.7 51.5 77.3





#25

2-Butanone

Concen: 0.204 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

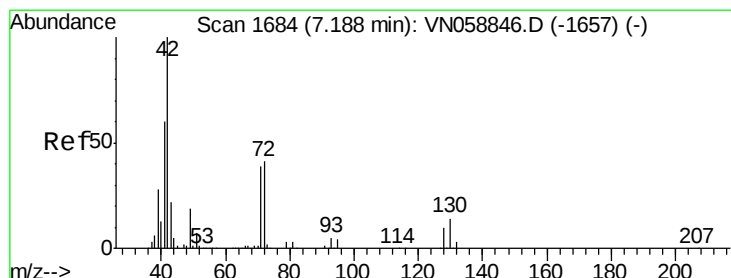
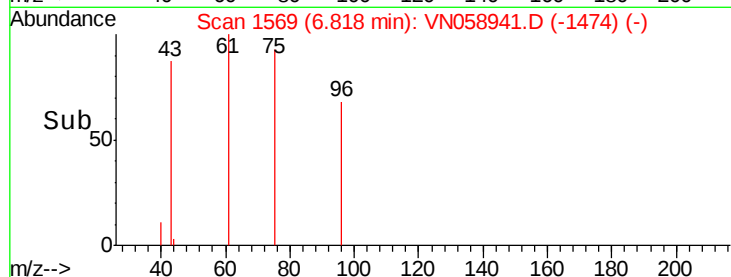
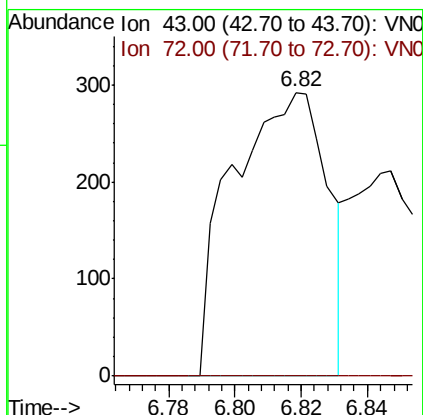
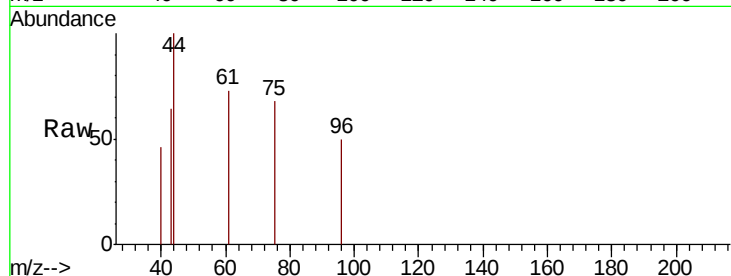
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 581

Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#



#29

Tetrahydrofuran

Concen: 20.579 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.01 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

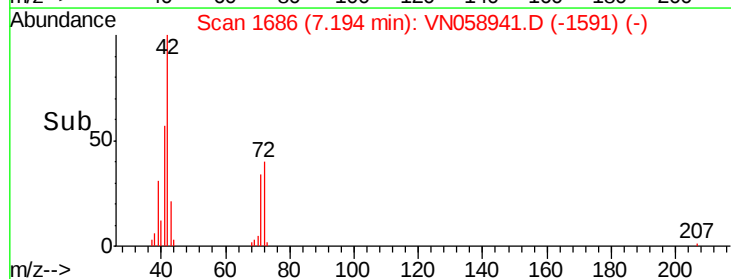
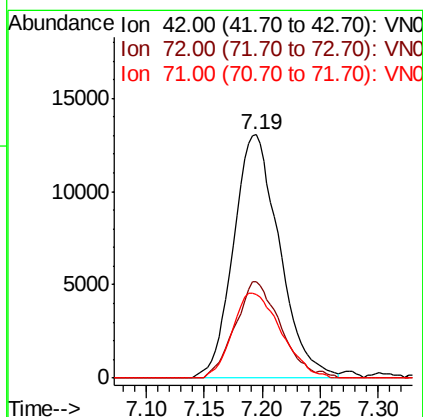
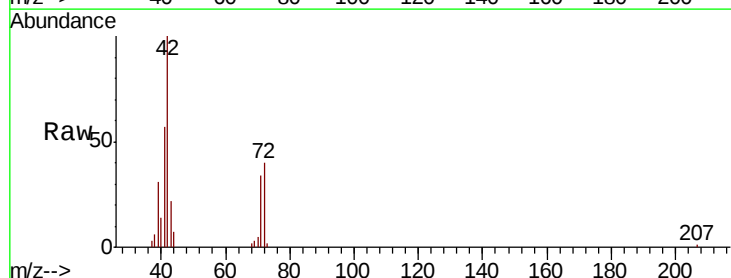
Tgt Ion: 42 Resp: 35937

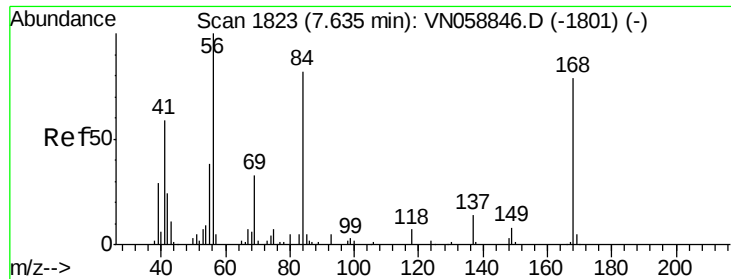
Ion Ratio Lower Upper

42 100

72 39.3 32.2 48.2

71 36.8 30.6 45.8

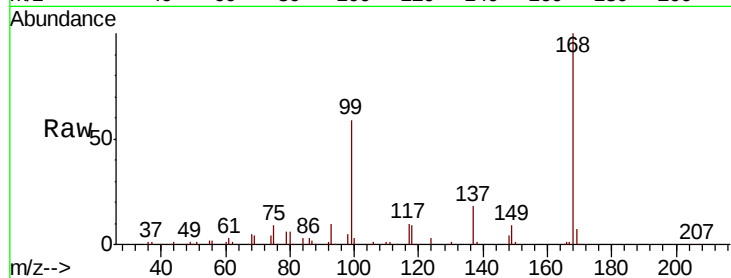




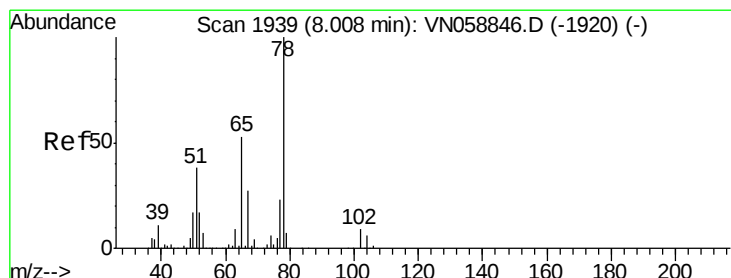
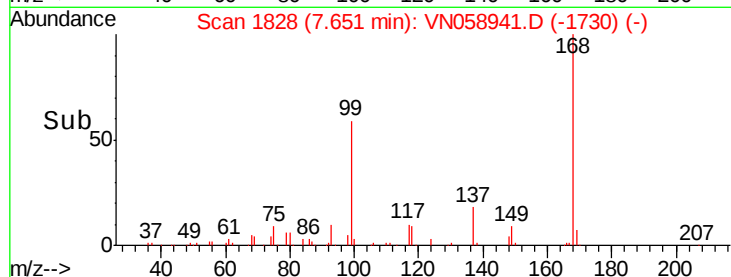
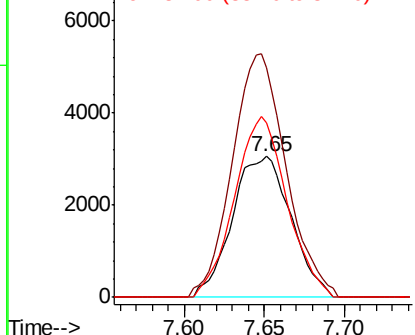
#31
Cyclohexane
Concen: 1.201 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.02 min
Lab File: VN058941.D
Acq: 23 Oct 2019 19:26

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 7683
Ion Ratio Lower Upper
56 100
69 162.8 26.2 39.4#
84 124.3 65.6 98.4#

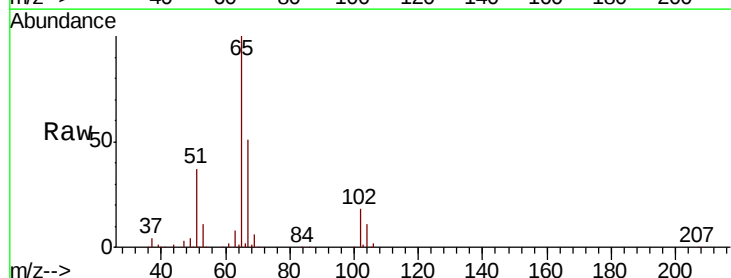


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

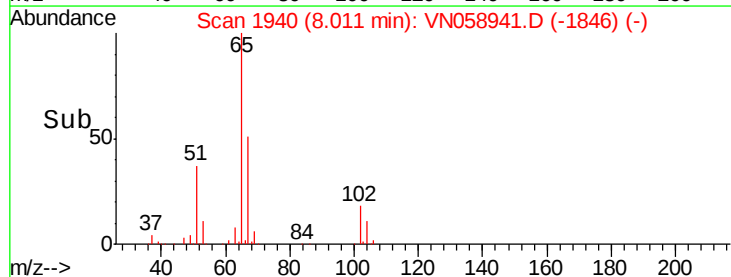
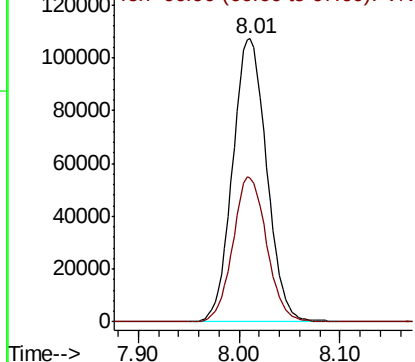


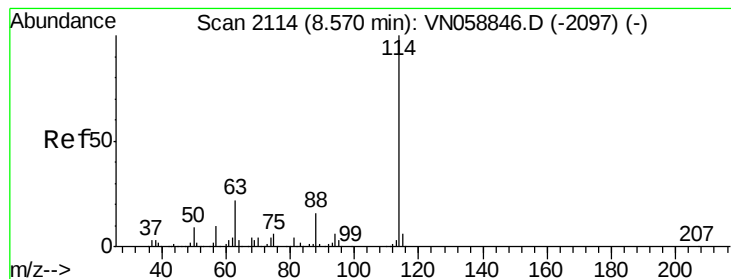
#33
1,2-Dichloroethane-d4
Concen: 56.554 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058941.D
Acq: 23 Oct 2019 19:26

Tgt Ion: 65 Resp: 251681
Ion Ratio Lower Upper
65 100
67 50.7 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

Instrument :

MSVOA_N

ClientSampled :

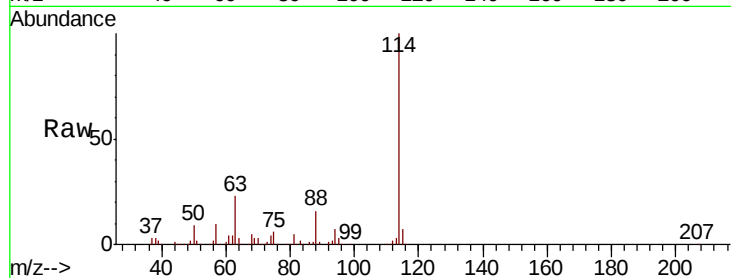
Tot Ion:114 Resp: 507283

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.4

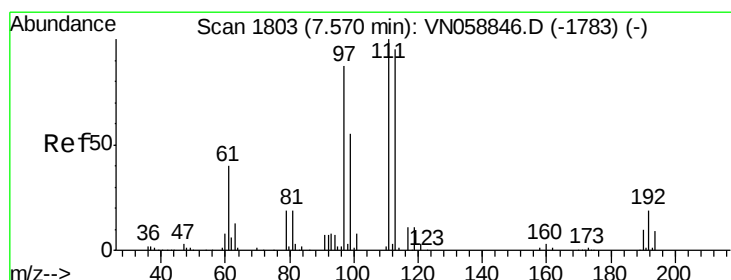
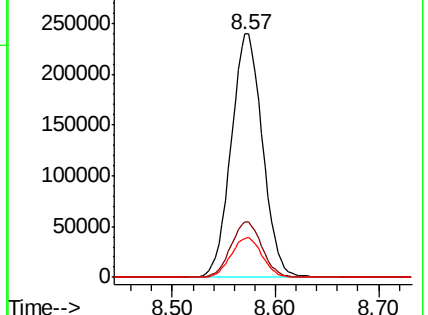
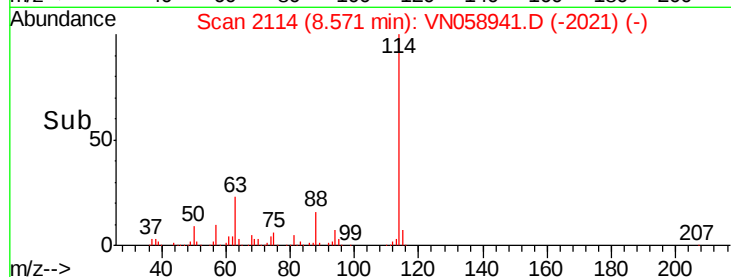
88 16.2 0.0 31.4



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: 52.664 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

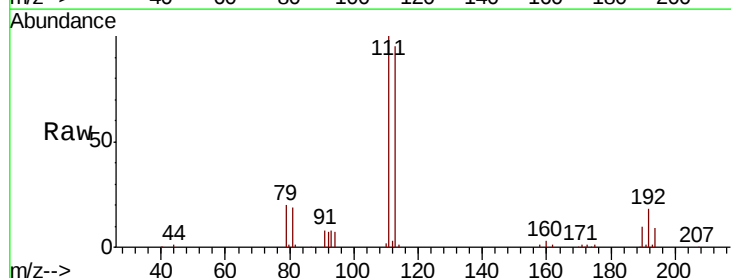
Tgt Ion:113 Resp: 175649

Ion Ratio Lower Upper

113 100

111 102.3 82.0 123.0

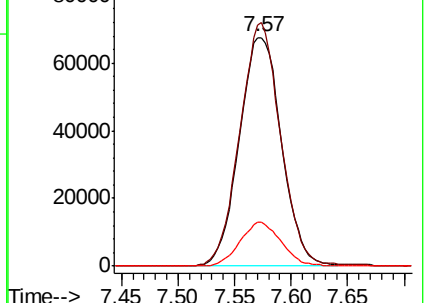
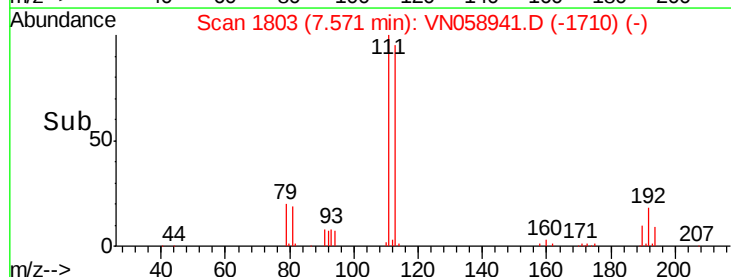
192 18.5 15.0 22.6

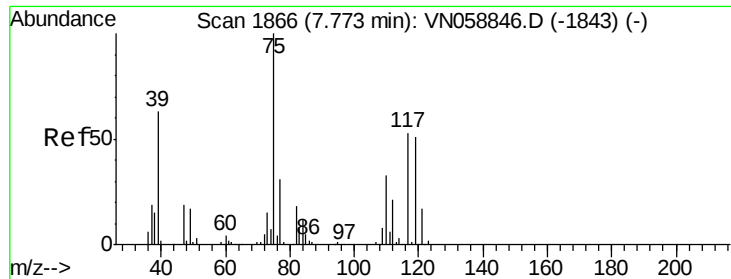


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

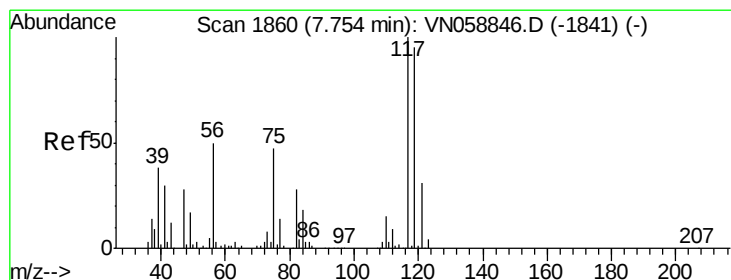
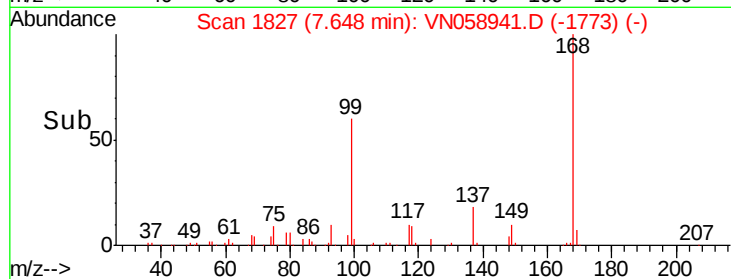
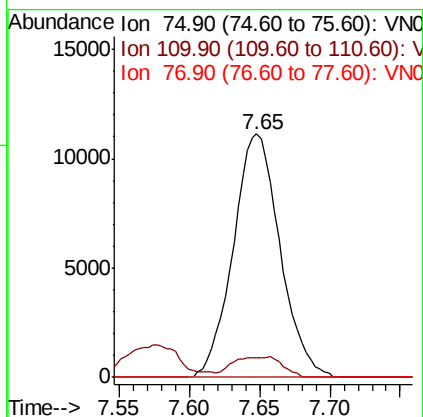
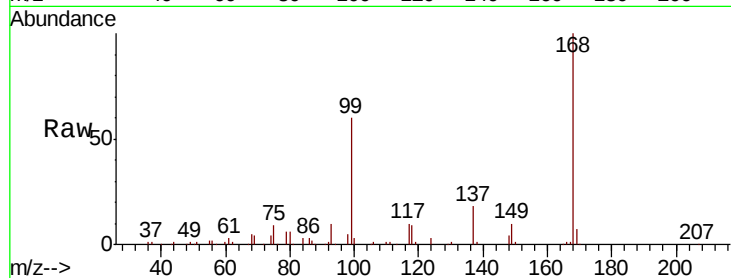




#36
 1,1-Dichloropropene
 Concen: 4.972 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058941.D
 Acq: 23 Oct 2019 19:26

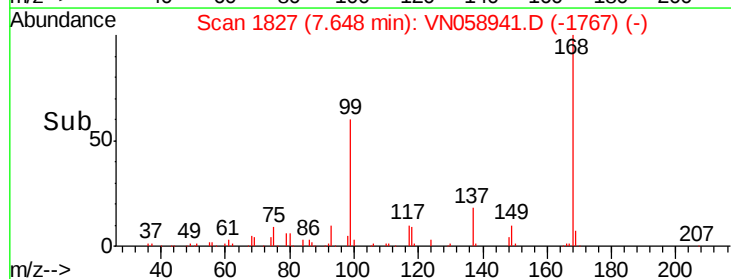
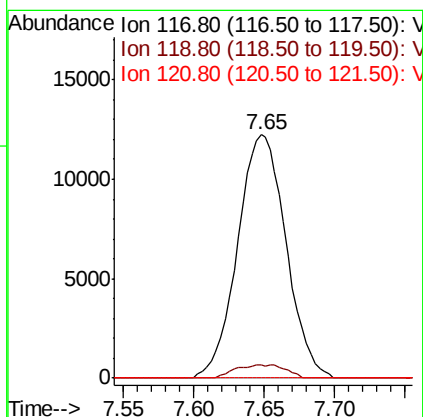
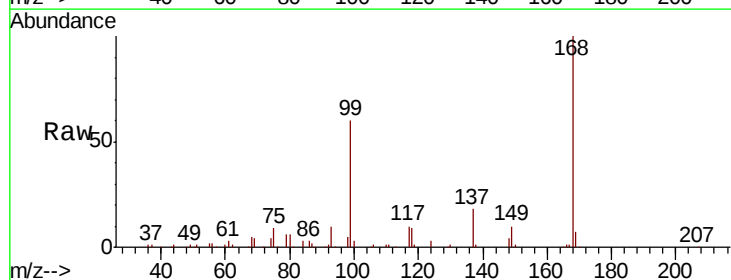
Instrument :
 MSVOA_N
 ClientSampled :

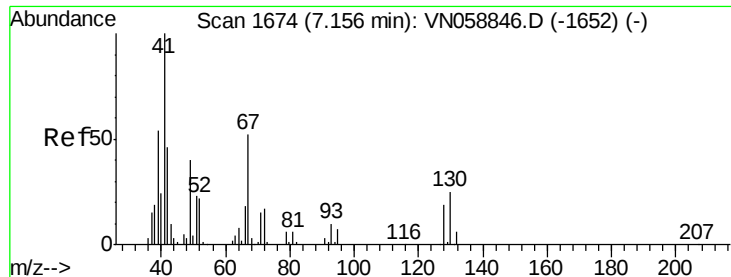
Tot Ion	75	Resp	25824
Ion Ratio	Lower	Upper	
75	100		
110	9.0	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.470 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058941.D
 Acq: 23 Oct 2019 19:26

Tgt Ion	117	Resp	29265
Ion Ratio	Lower	Upper	
117	100		
119	5.5	75.7	113.5#
121	0.0	25.0	37.6#

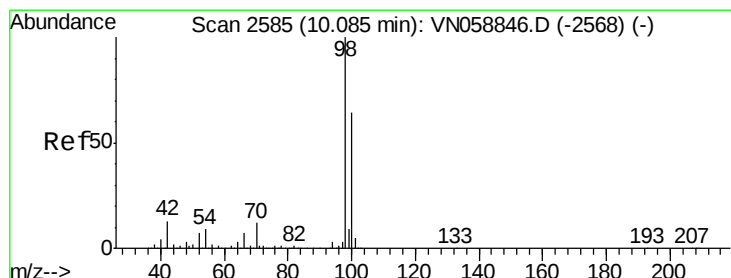
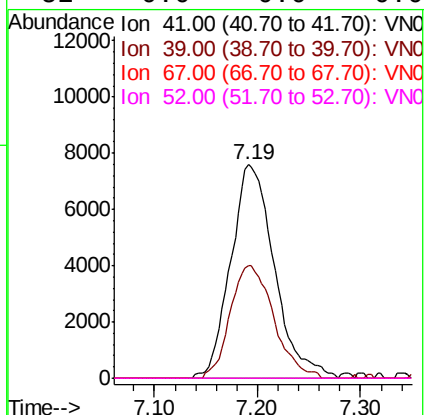
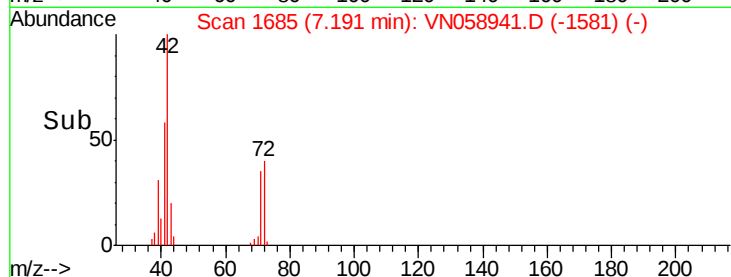
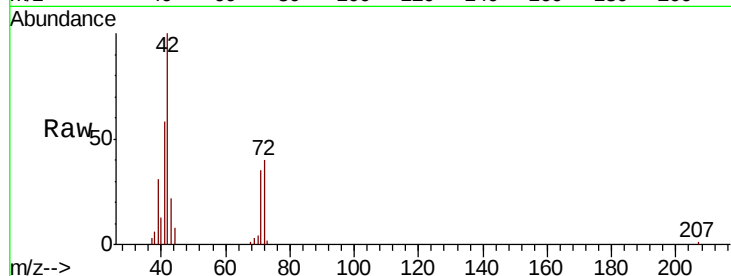




#41
Methacrylonitrile
Concen: 8.908 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.04 min
Lab File: VN058941.D
Acq: 23 Oct 2019 19:26

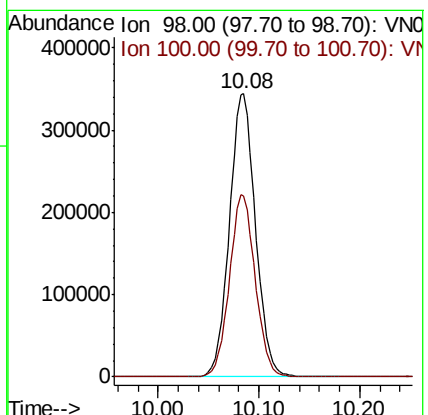
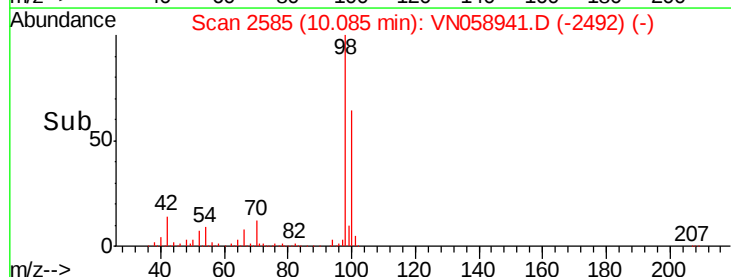
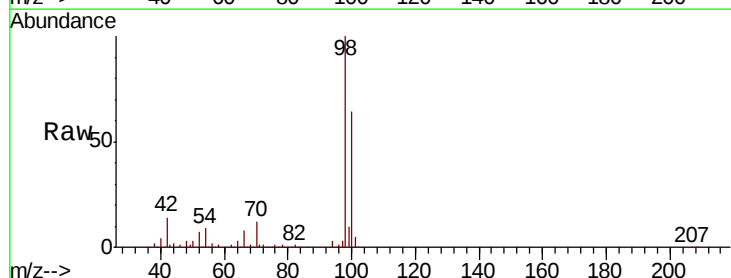
Instrument :
MSVOA_N
ClientSampled :

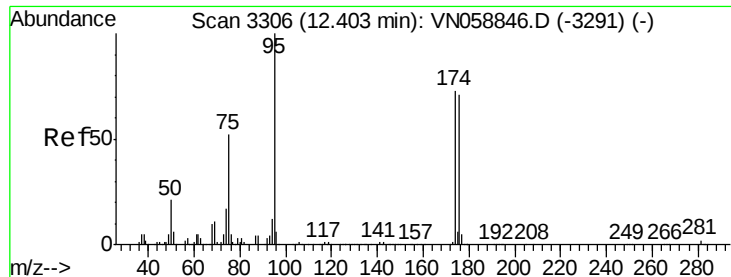
Tot Ion: 41 Resp: 22452
Ion Ratio Lower Upper
41 100
39 52.3 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



#50
Toluene-d8
Concen: 47.870 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058941.D
Acq: 23 Oct 2019 19:26

Tgt Ion: 98 Resp: 619779
Ion Ratio Lower Upper
98 100
100 63.6 51.4 77.2





#62

4-Bromofluorobenzene

Concen: 42.520 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

Instrument :

MSVOA_N

ClientSampleId :

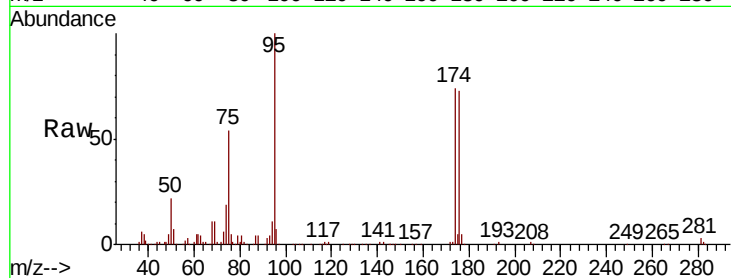
Tot Ion: 95 Resp: 202162

Ion Ratio Lower Upper

95 100

174 76.0 0.0 147.6

176 73.0 0.0 143.2

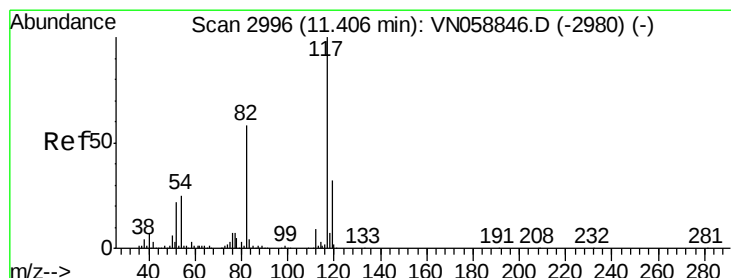
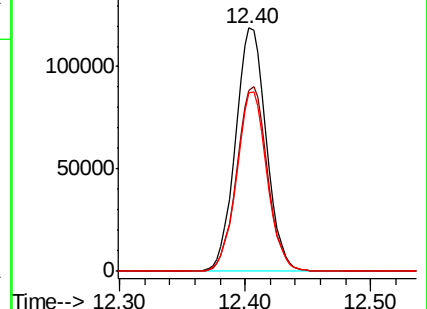
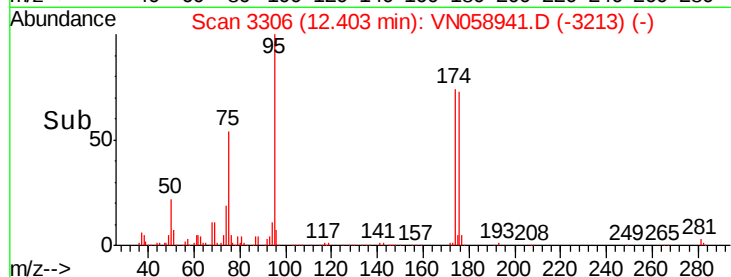


Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

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

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

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

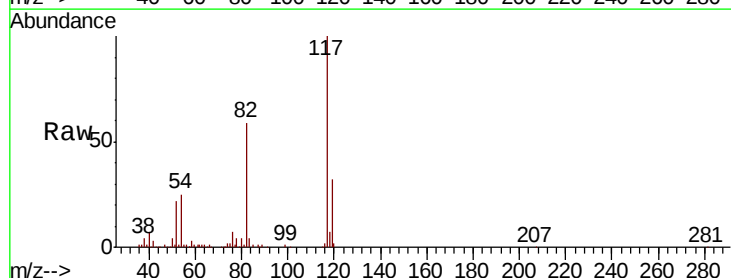
Tgt Ion: 117 Resp: 455813

Ion Ratio Lower Upper

117 100

82 59.0 46.6 69.8

119 32.1 25.6 38.4

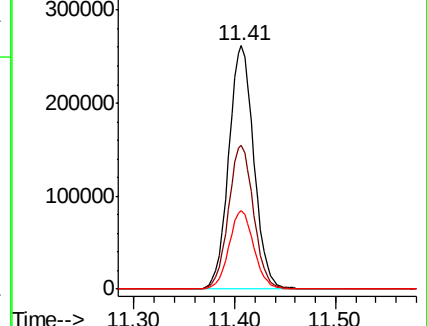
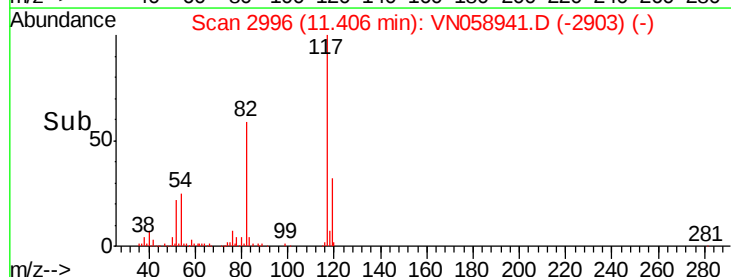


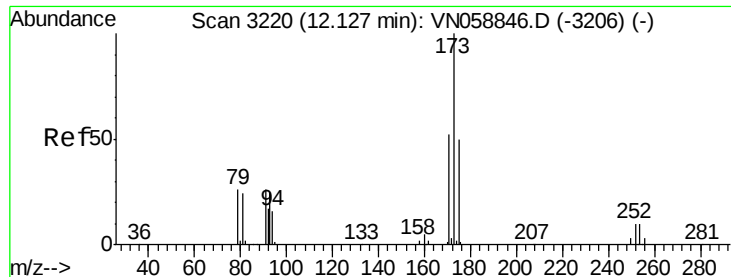
Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

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

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

11.41

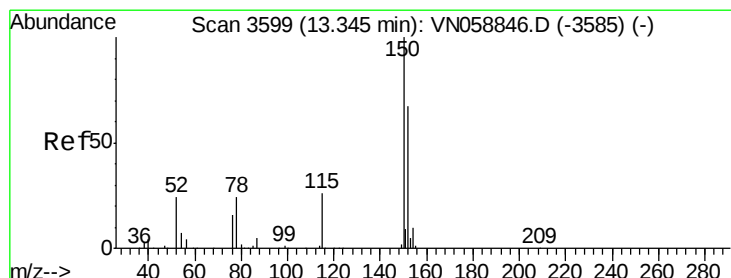
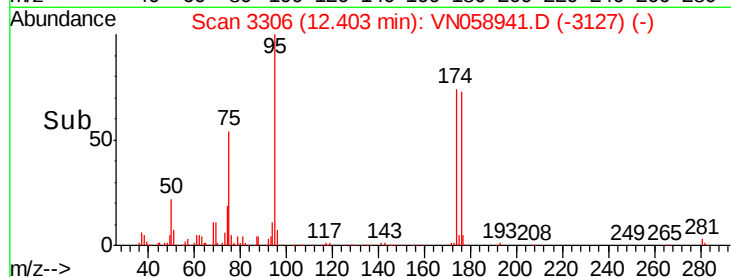
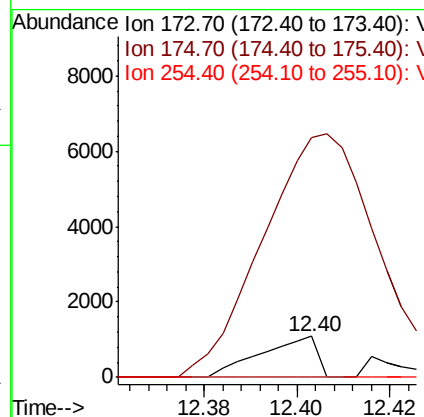
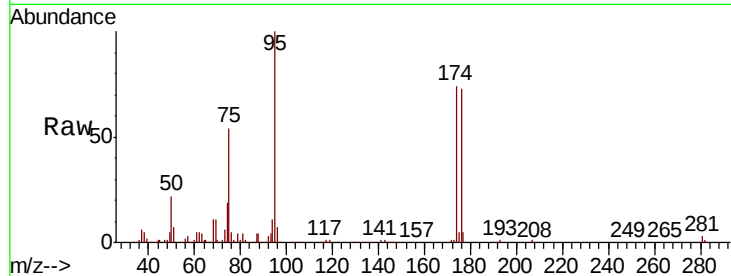




#71
Bromoform
Concen: 0.340 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN058941.D
Acq: 23 Oct 2019 19:26

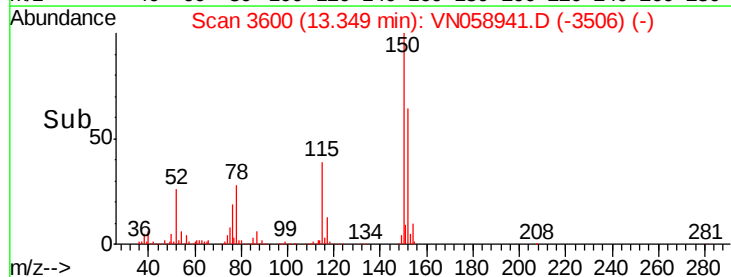
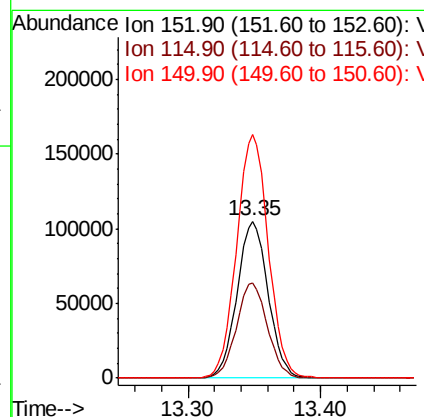
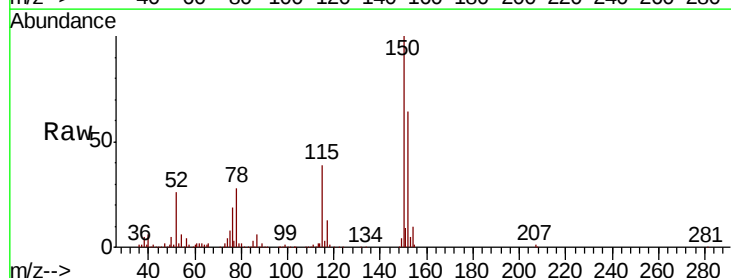
Instrument :
MSVOA_N
ClientSampleId :

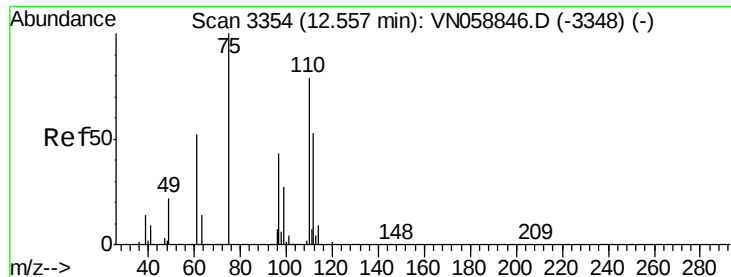
Tot Ion:173 Resp: 923
Ion Ratio Lower Upper
173 100
175 959.9 24.7 74.1#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058941.D
Acq: 23 Oct 2019 19:26

Tgt Ion:152 Resp: 170890
Ion Ratio Lower Upper
152 100
115 60.6 30.5 91.5
150 158.3 0.0 344.4





#76

1,2,3-Trichloropropane

Concen: 27.419 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

Instrument :

MSVOA_N

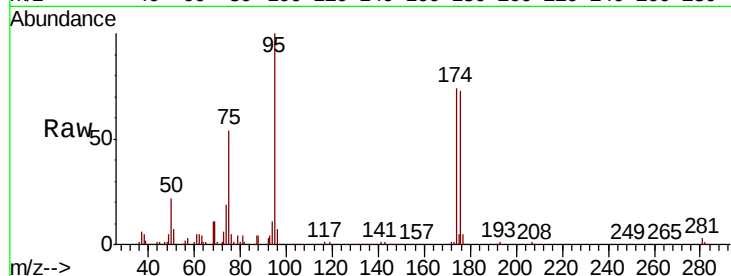
ClientSampleId :

Tot Ion: 75 Resp: 108594

Ion Ratio Lower Upper

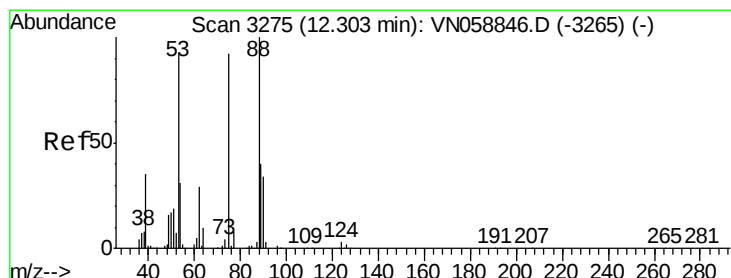
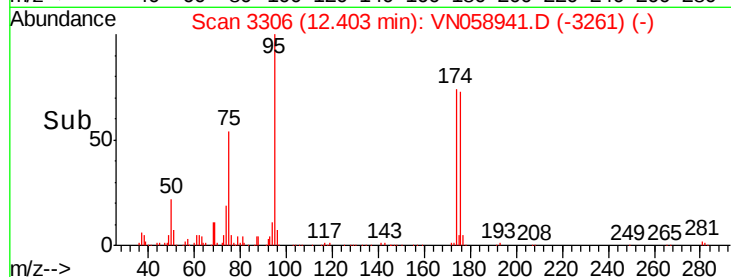
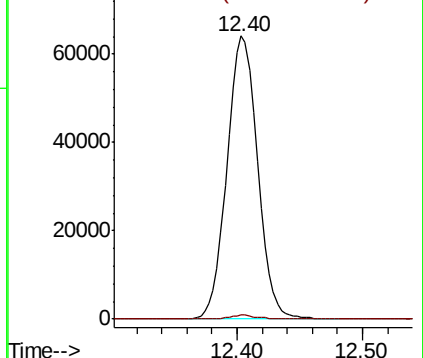
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 71.428 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

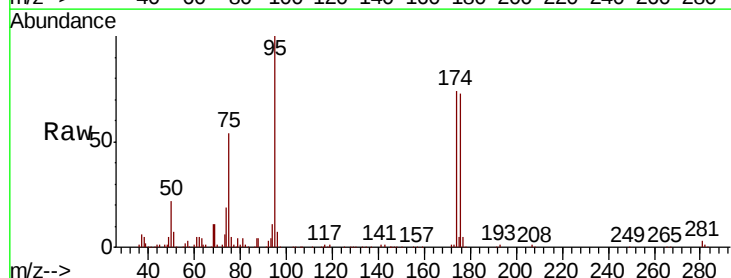
Tgt Ion: 75 Resp: 108594

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

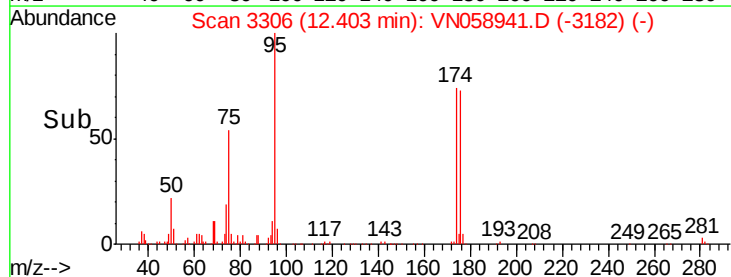
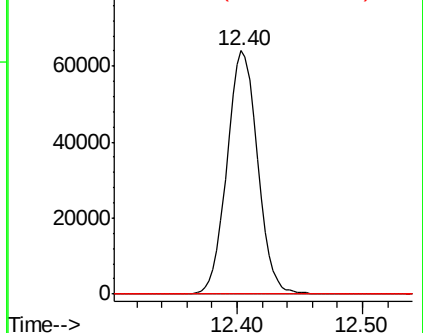
89 0.0 35.4 53.0#

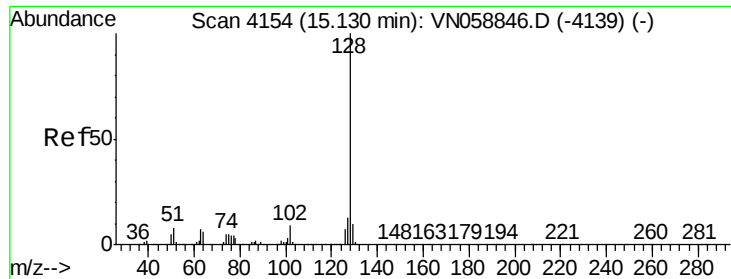


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 2.234 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

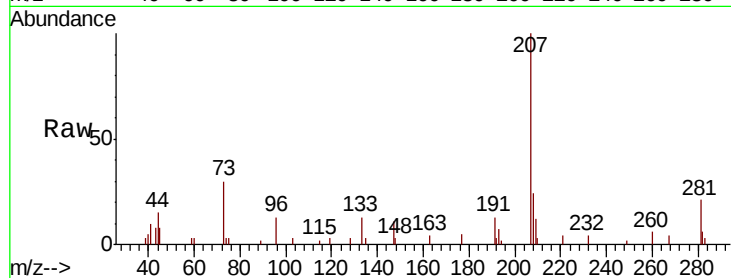
Lab File: VN058941.D

Acq: 23 Oct 2019 19:26

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:	128	Resp:	91
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.4	12.6#

