

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051989.D
 Acq On : 24 Oct 2018 15:47
 Operator : MD\SY
 Sample : PB114120ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114120ZHE#05

Quant Time: Oct 25 01:47:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1098755	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1623265	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1501981	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	660789	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	579668	59.24	ug/l	0.00
Spiked Amount			Recovery	=	118.48%	
35) Dibromofluoromethane	7.59	113	600091	57.93	ug/l	0.00
Spiked Amount			Recovery	=	115.86%	
50) Toluene-d8	10.09	98	2203764	58.87	ug/l	0.00
Spiked Amount			Recovery	=	117.74%	
62) 4-Bromofluorobenzene	12.40	95	684234	53.18	ug/l	0.00
Spiked Amount			Recovery	=	106.36%	

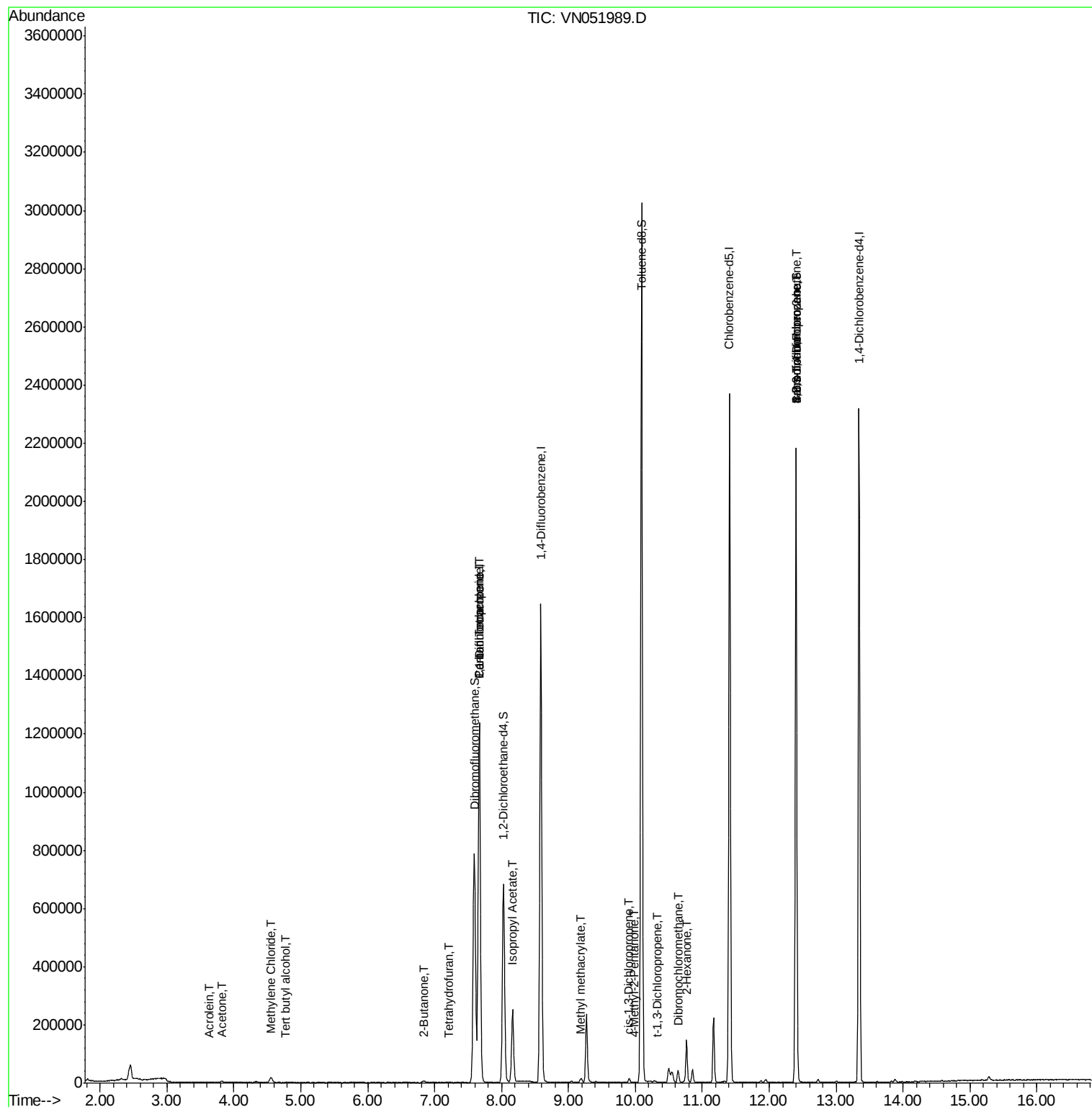
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.79	59	115	0.227	ug/l #	72
13) Acrolein	3.62	56	31	37.363	ug/l #	14
16) Acetone	3.82	43	8525	5.288	ug/l	99
18) Methyl Acetate	4.33	43	4315	Below Cal	#	78
20) Methylene Chloride	4.55	84	14092	1.490	ug/l	95
25) 2-Butanone	6.84	43	2265	0.985	ug/l #	76
29) Tetrahydrofuran	7.22	42	1204	0.773	ug/l #	44
31) Cyclohexane	7.67	56	18779	Below Cal	#	41
36) 1,1-Dichloropropene	7.67	75	66535	5.343	ug/l #	47
37) Ethyl Acetate	6.95	43	216	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	99405	6.954	ug/l #	15
43) Isopropyl Acetate	8.17	43	273375	26.215	ug/l	99
48) Methyl methacrylate	9.17	41	6887	1.366	ug/l #	4
51) 4-Methyl-2-Pentanone	9.99	43	1254	0.219	ug/l	91
53) t-1,3-Dichloropropene	10.33	75	31	1.246	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	3024	0.227	ug/l #	63
59) 2-Hexanone	10.76	43	19465	5.050	ug/l #	55
60) Dibromochloromethane	10.63	129	214	1.995	ug/l #	11
71) Bromoform	12.40	173	5872	4.367	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	330479	48.418	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	330479	152.250	ug/l #	12

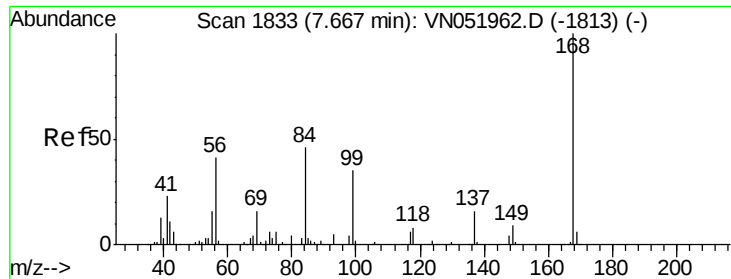
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

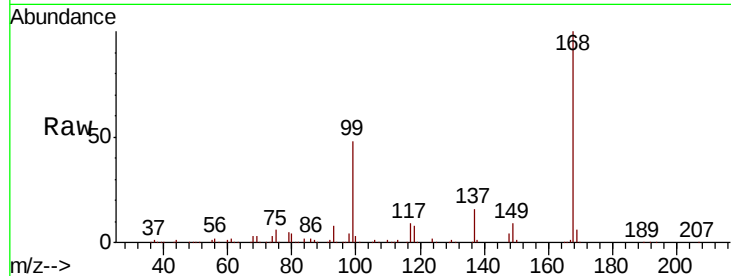
PB114120ZHE#05

Tot Ion:168 Resp: 1098755

Ion Ratio Lower Upper

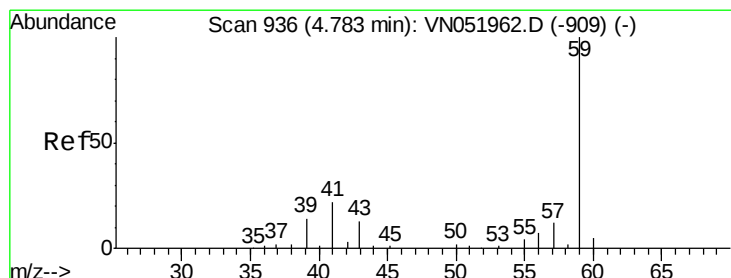
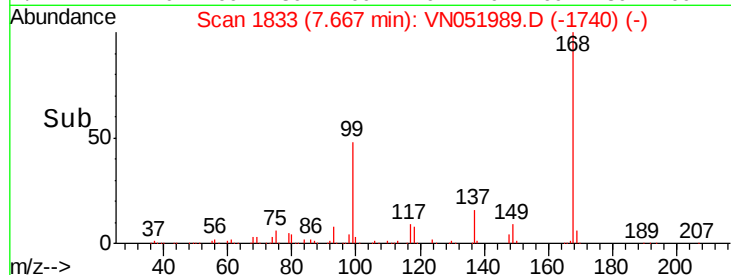
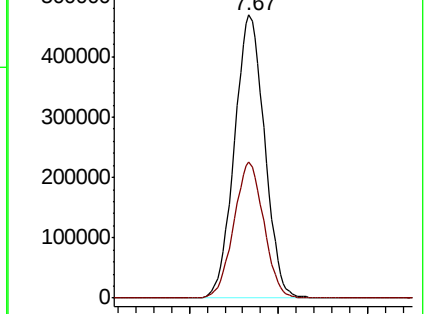
168 100

99 48.1 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.227 ug/l

RT: 4.79 min Scan# 937

Delta R.T. 0.00 min

Lab File: VN051989.D

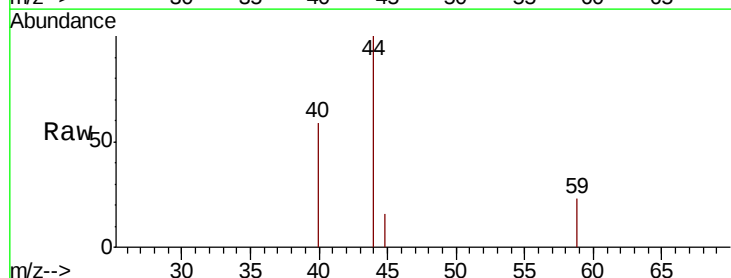
Acq: 24 Oct 2018 15:47

Tgt Ion: 59 Resp: 115

Ion Ratio Lower Upper

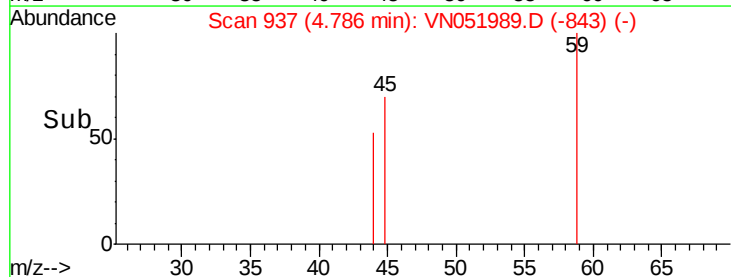
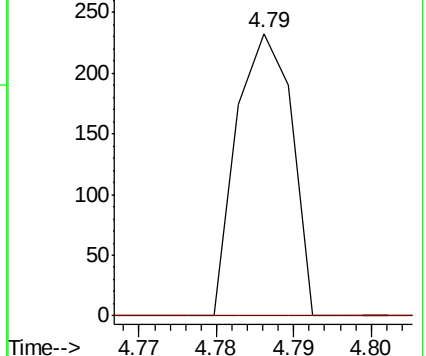
59 100

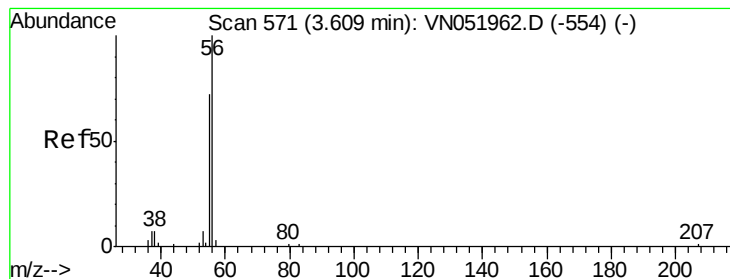
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 37.363 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

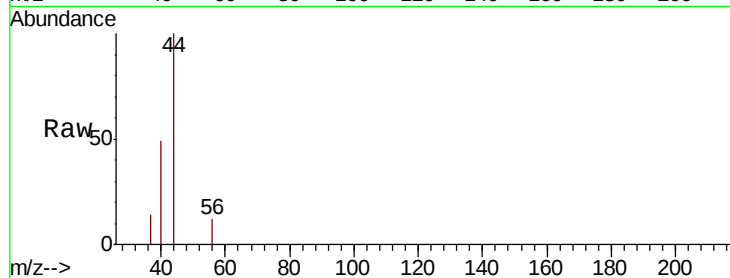
PB114120ZHE#05

Tot Ion: 56 Resp: 31

Ion Ratio Lower Upper

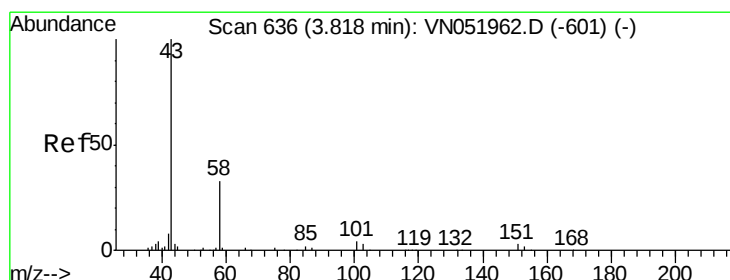
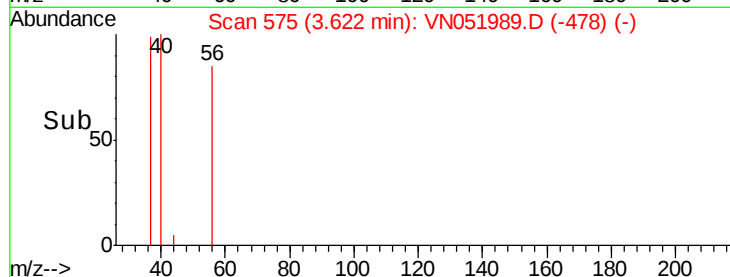
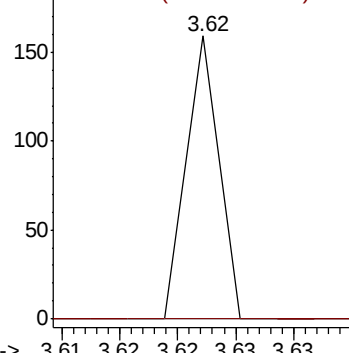
56 100

55 0.0 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 5.288 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN051989.D

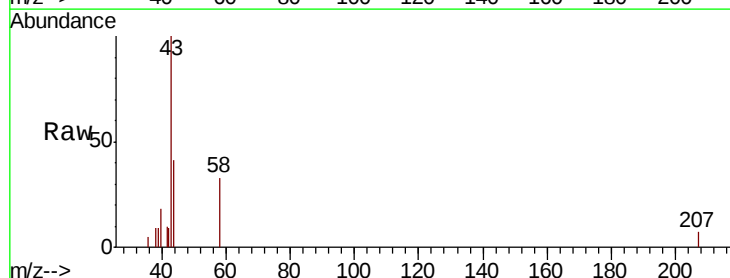
Acq: 24 Oct 2018 15:47

Tgt Ion: 43 Resp: 8525

Ion Ratio Lower Upper

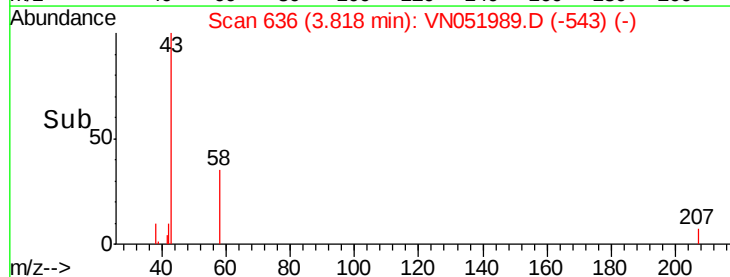
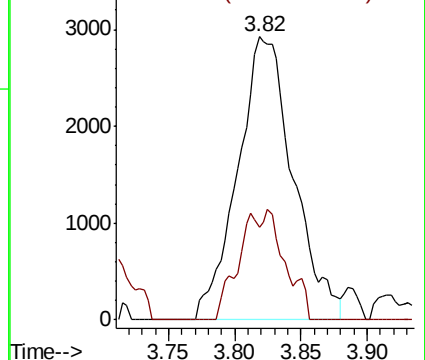
43 100

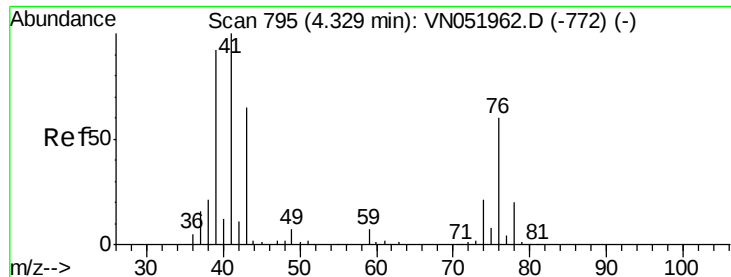
58 32.7 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

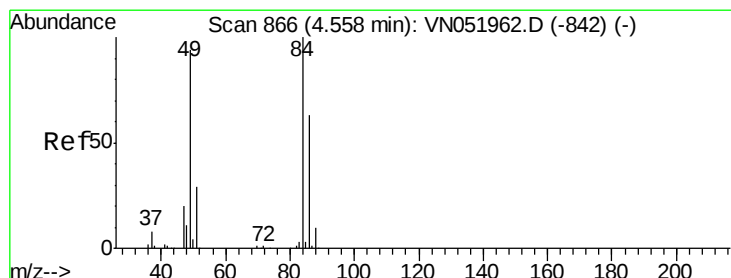
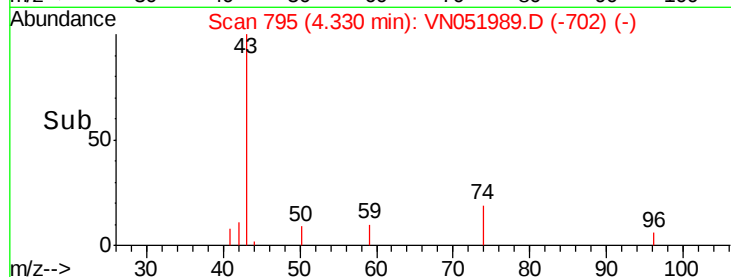
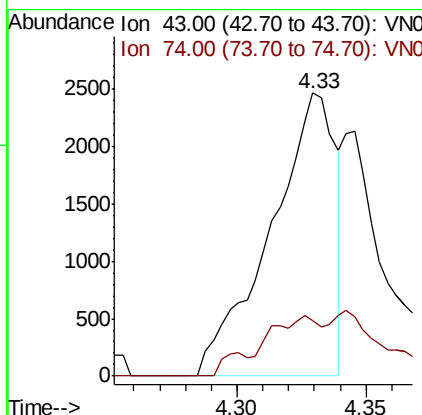
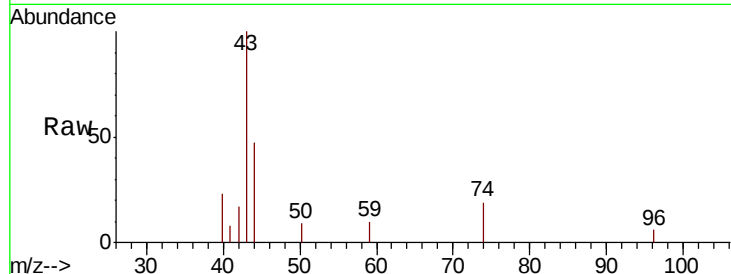




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051989.D
Acq: 24 Oct 2018 15:47

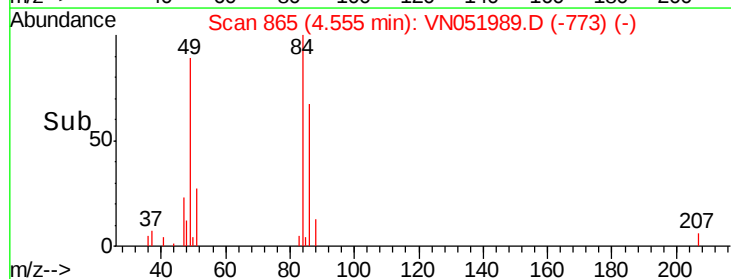
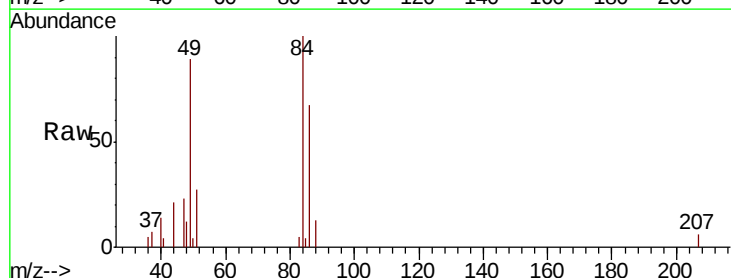
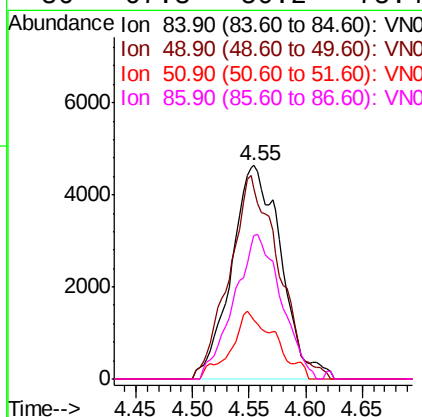
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#05

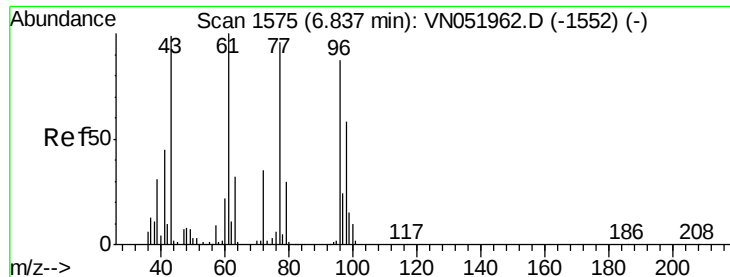
Tot Ion: 43 Resp: 4315
Ion Ratio Lower Upper
43 100
74 19.7 25.7 38.5#



#20
Methylene Chloride
Concen: 1.490 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN051989.D
Acq: 24 Oct 2018 15:47

Tgt Ion: 84 Resp: 14092
Ion Ratio Lower Upper
84 100
49 89.3 75.4 113.0
51 27.4 23.1 34.7
86 67.3 50.2 75.4





#25

2-Butanone

Concen: 0.985 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

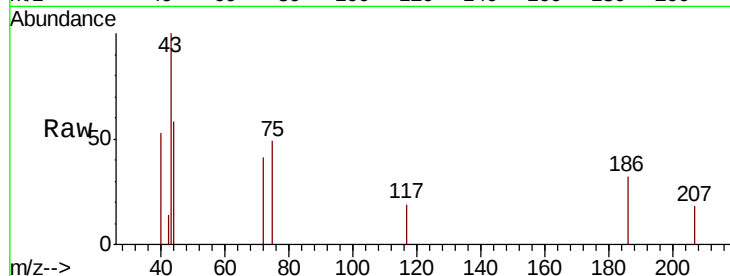
PB114120ZHE#05

Tot Ion: 43 Resp: 2265

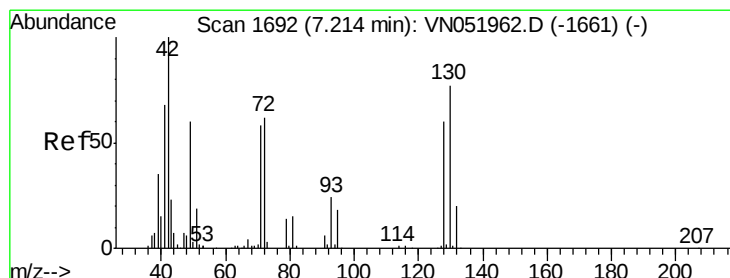
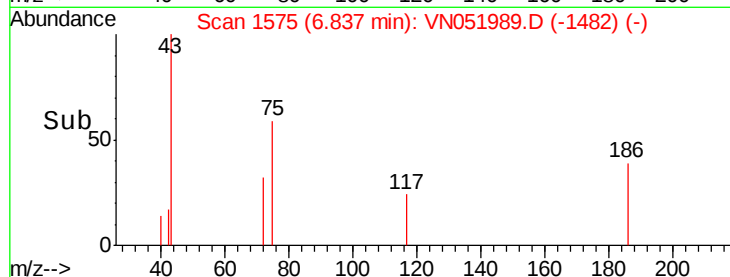
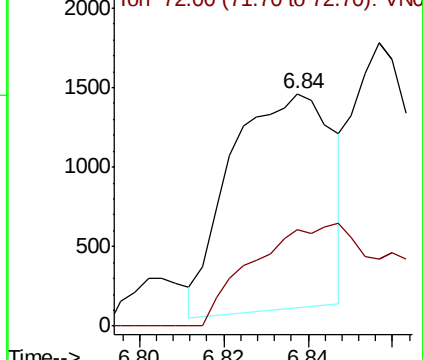
Ion Ratio Lower Upper

43 100

72 49.6 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-1552) (-)



#29

Tetrahydrofuran

Concen: 0.773 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

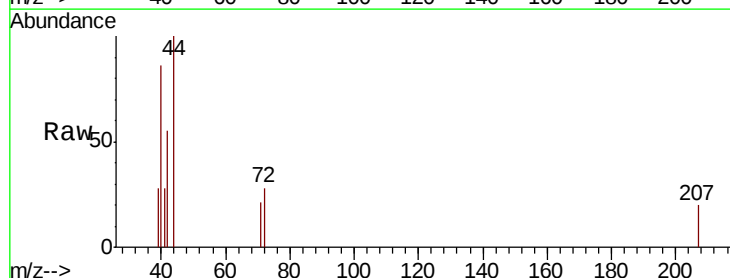
Tgt Ion: 42 Resp: 1204

Ion Ratio Lower Upper

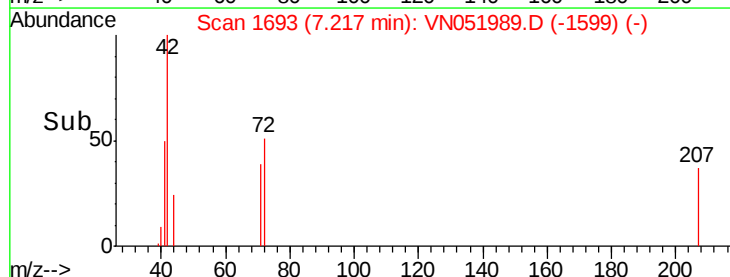
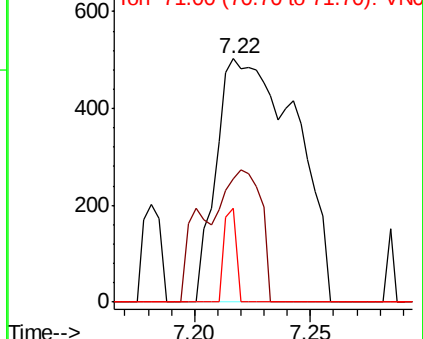
42 100

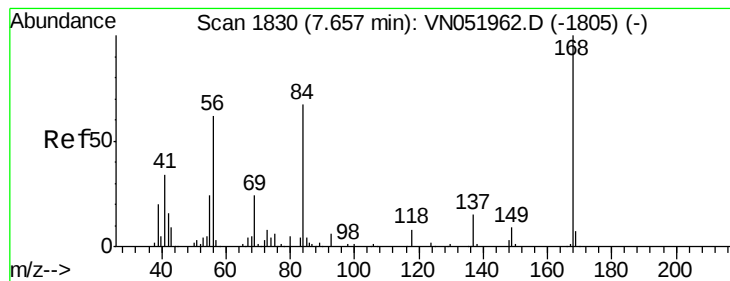
72 26.4 47.5 71.3#

71 5.9 45.4 68.2#



Abundance Ion 42.00 (41.70 to 42.70): VN051962.D (-1661) (-)





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

Instrument :

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ClientSampleId :

PB114120ZHE#05

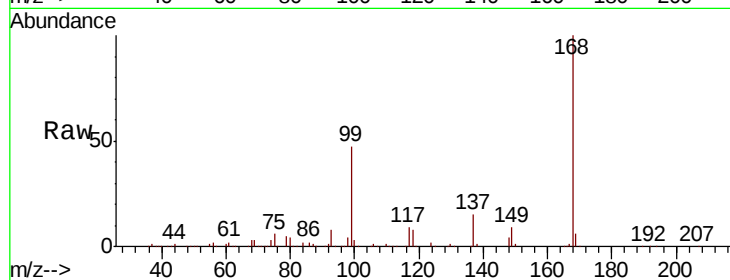
Tot Ion: 56 Resp: 18779

Ion Ratio Lower Upper

56 100

69 146.5 31.2 46.8#

84 125.8 86.3 129.5

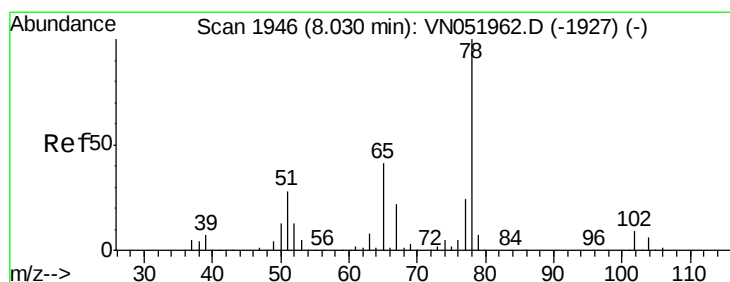
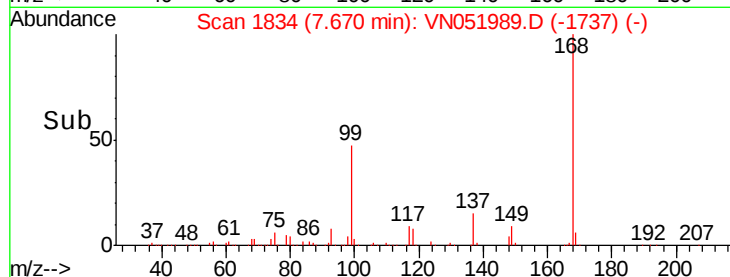
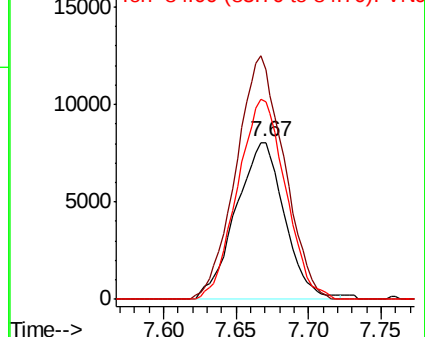


Abundance

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: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051989.D

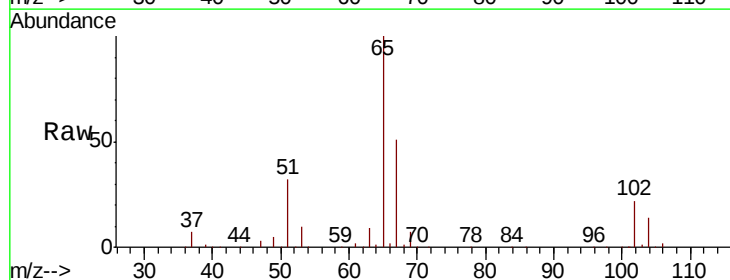
Acq: 24 Oct 2018 15:47

Tgt Ion: 65 Resp: 579668

Ion Ratio Lower Upper

65 100

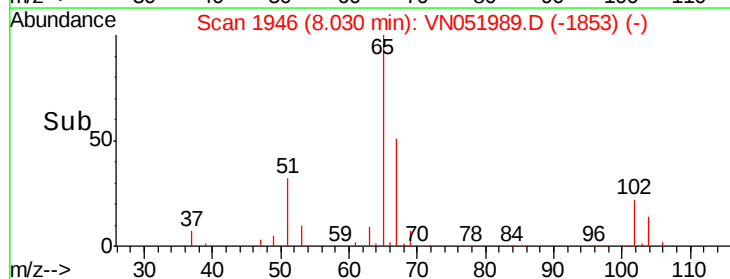
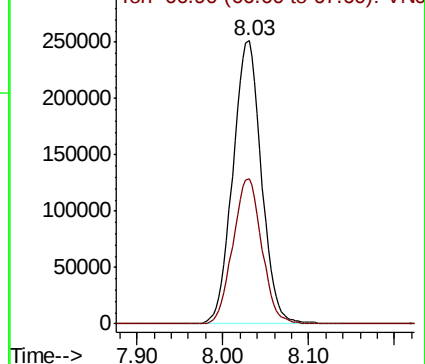
67 51.9 0.0 105.8

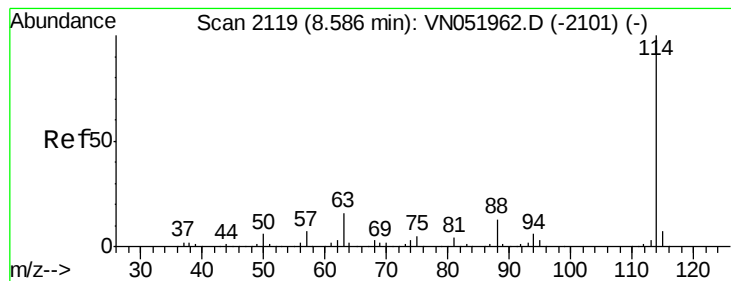


Abundance

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: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

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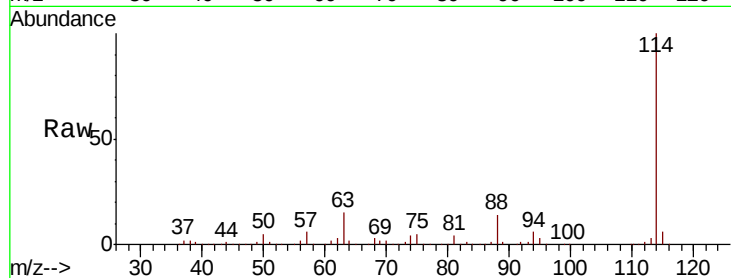
Tot Ion:114 Resp: 1623265

Ion Ratio Lower Upper

114 100

63 15.5 0.0 31.2

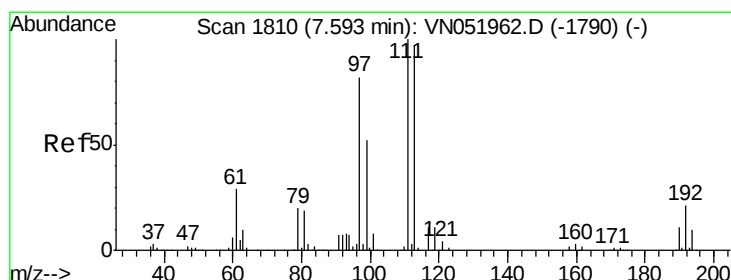
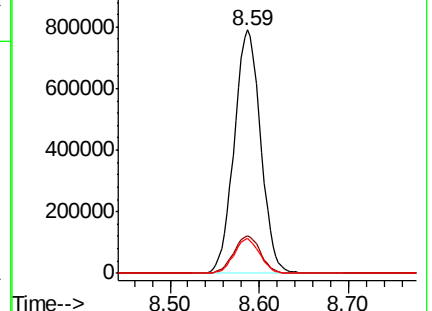
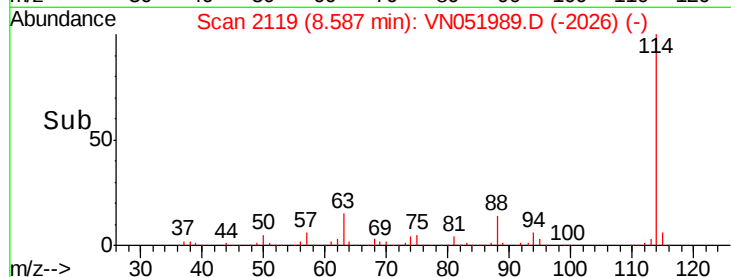
88 14.1 0.0 27.0



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: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

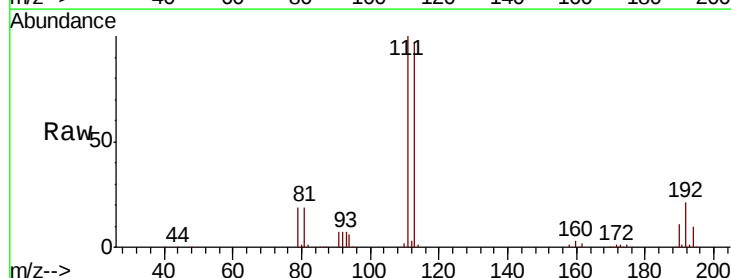
Tgt Ion:113 Resp: 600091

Ion Ratio Lower Upper

113 100

111 102.1 80.7 121.1

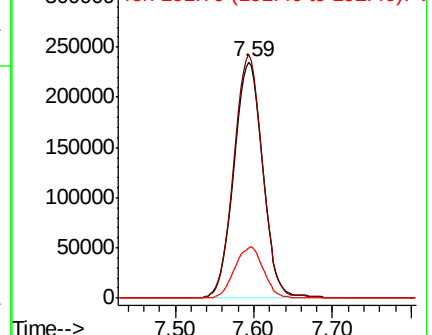
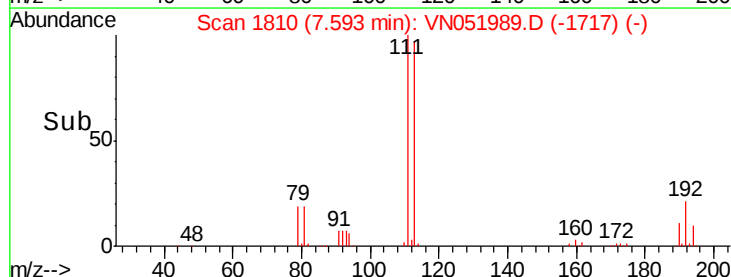
192 21.8 17.2 25.8

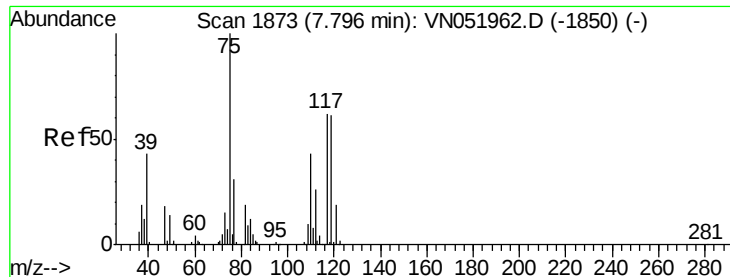


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.343 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051989.D

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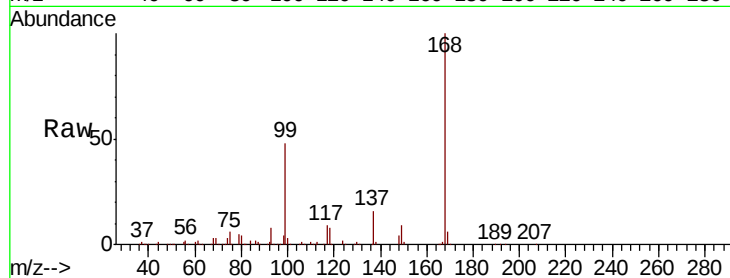
Tot Ion: 75 Resp: 66535

Ion Ratio Lower Upper

75 100

110 10.3 20.9 62.8#

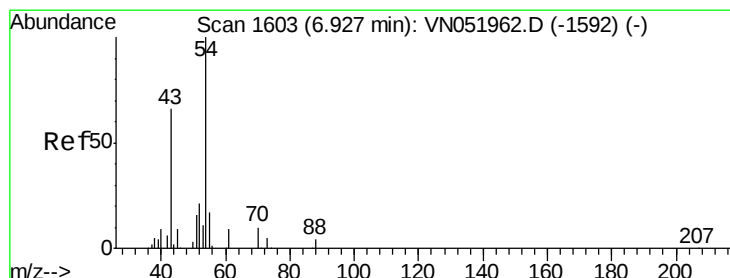
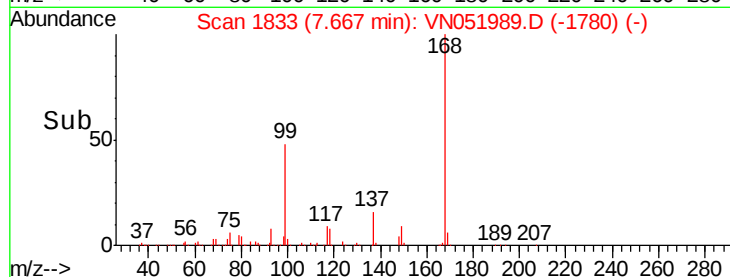
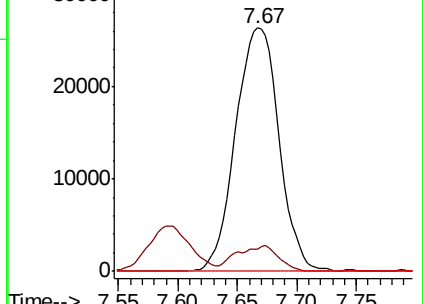
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.95 min Scan# 1610

Delta R.T. 0.02 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

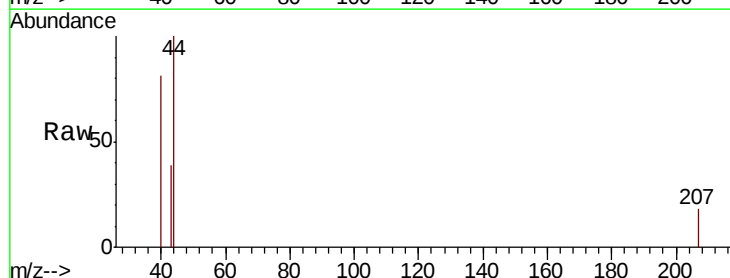
Tgt Ion: 43 Resp: 216

Ion Ratio Lower Upper

43 100

61 0.0 13.5 20.3#

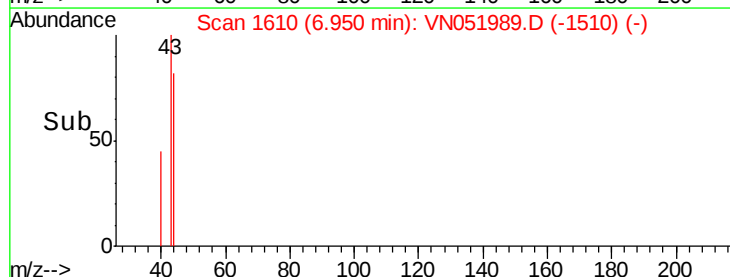
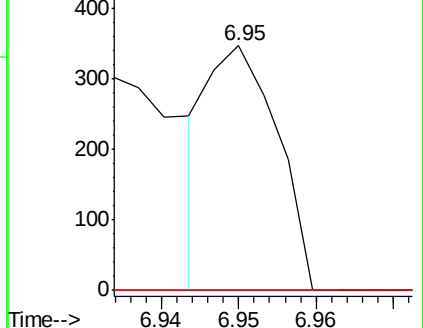
70 0.0 9.8 14.6#

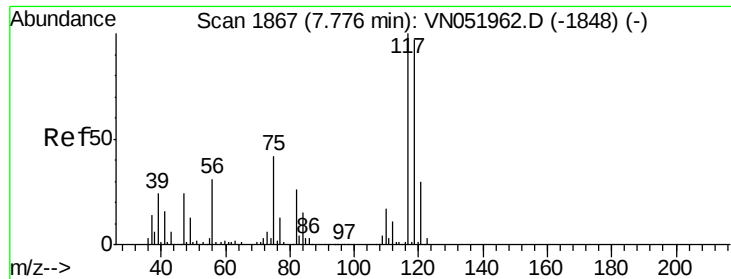


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

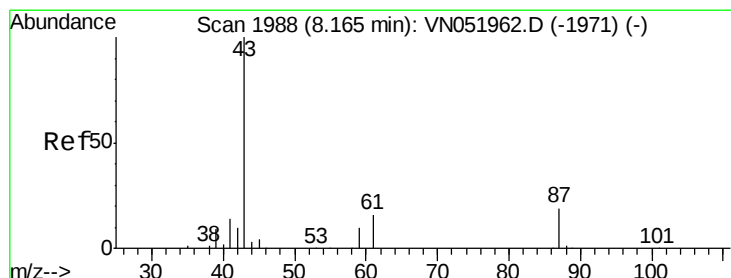
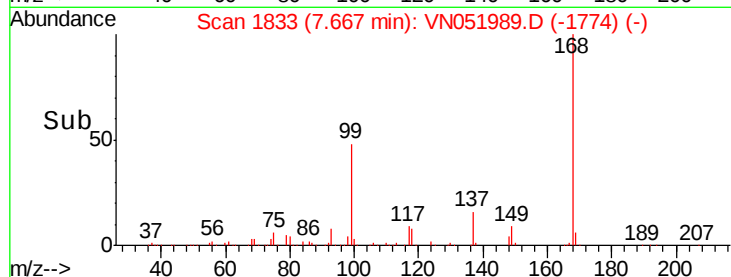
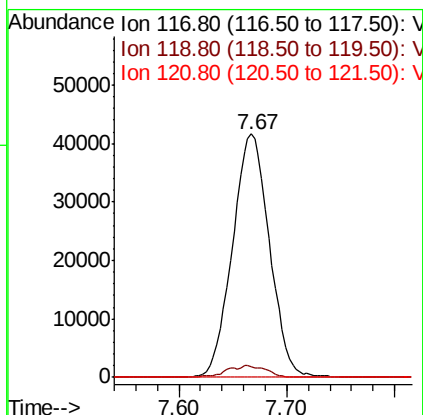
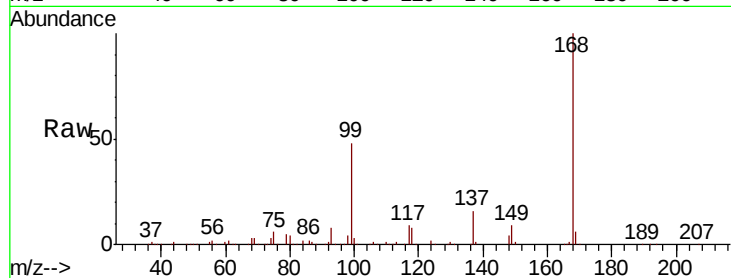




#38
Carbon Tetrachloride
Concen: 6.954 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051989.D
Acq: 24 Oct 2018 15:47

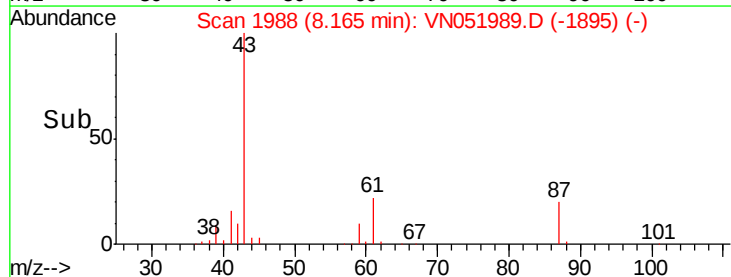
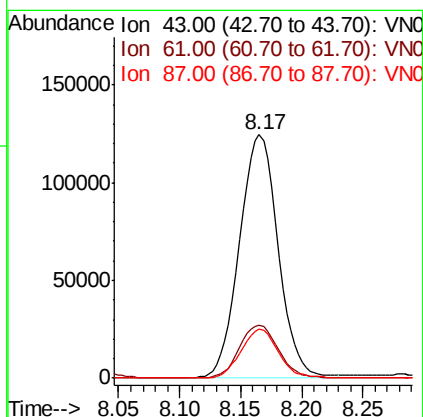
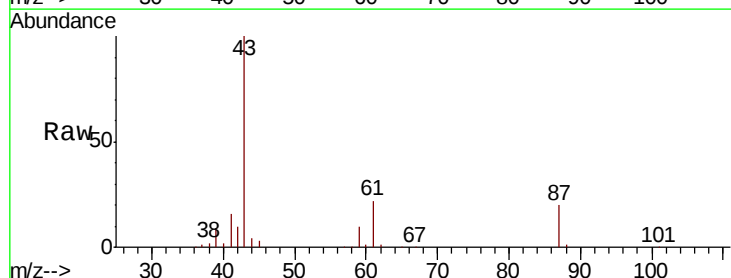
Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#05

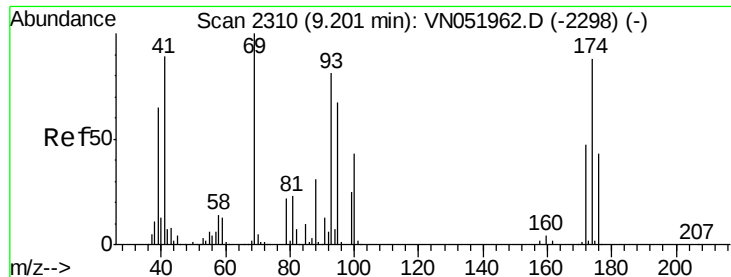
Tot Ion:117 Resp: 99405
Ion Ratio Lower Upper
117 100
119 4.5 77.4 116.0#
121 0.0 24.2 36.4#



#43
Isopropyl Acetate
Concen: 26.215 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051989.D
Acq: 24 Oct 2018 15:47

Tgt Ion: 43 Resp: 273375
Ion Ratio Lower Upper
43 100
61 22.1 17.2 25.8
87 19.5 15.2 22.8

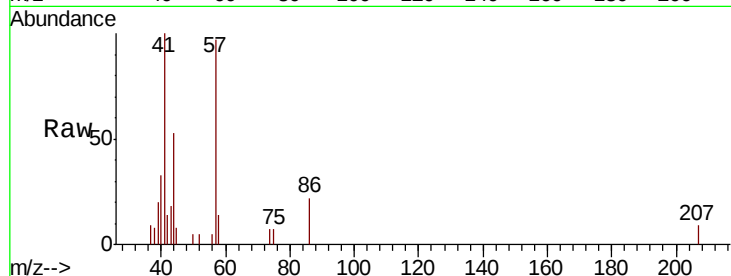




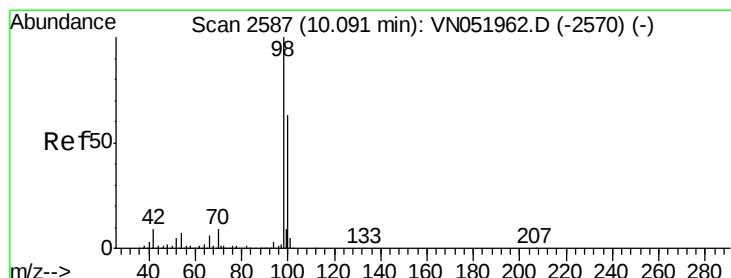
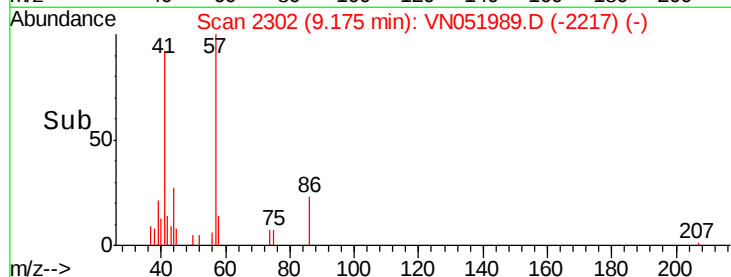
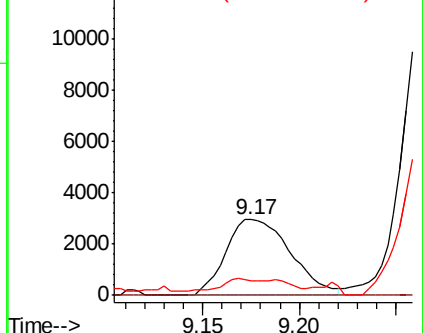
#48
Methvl methacrylate
Concen: 1.366 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN051989.D
Acq: 24 Oct 2018 15:47

Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#05

Tot Ion: 41 Resp: 6887
Ion Ratio Lower Upper
41 100
69 0.0 92.2 138.4#
39 7.2 60.2 90.4#

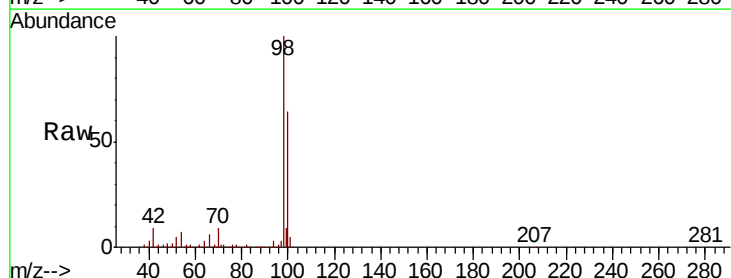


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

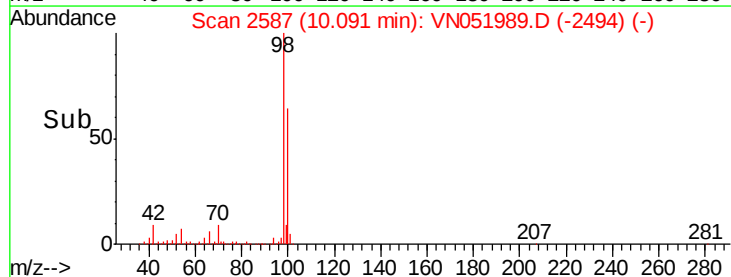
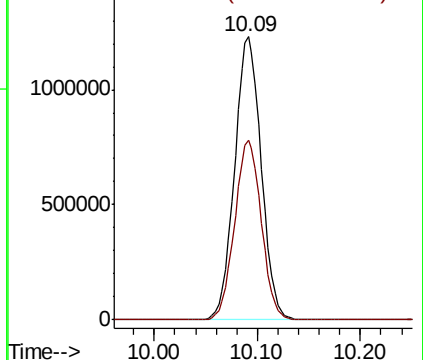


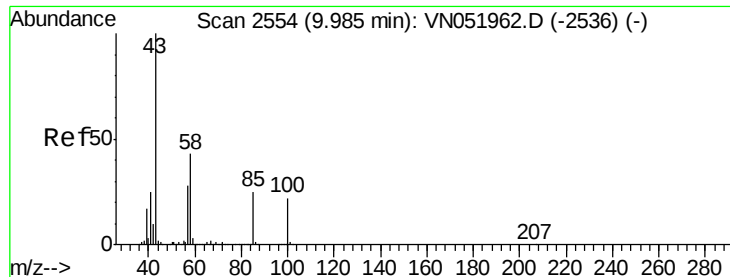
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051989.D
Acq: 24 Oct 2018 15:47

Tgt Ion: 98 Resp: 2203764
Ion Ratio Lower Upper
98 100
100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.219 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

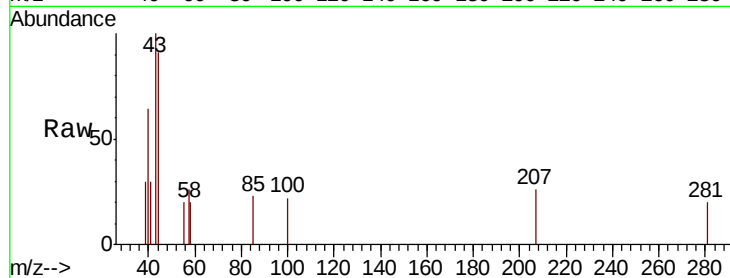
PB114120ZHE#05

Tot Ion: 43 Resp: 1254

Ion Ratio Lower Upper

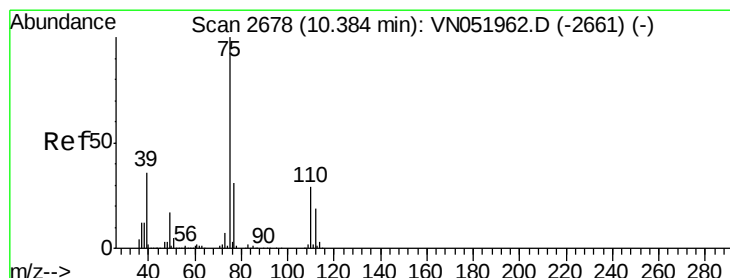
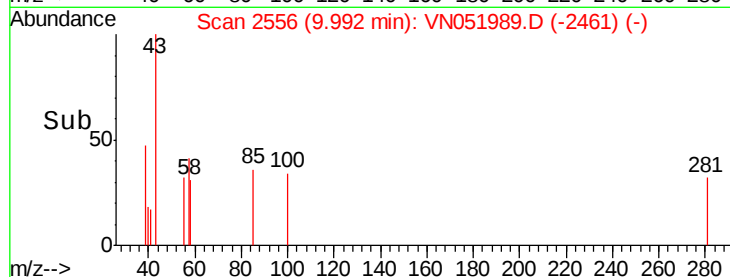
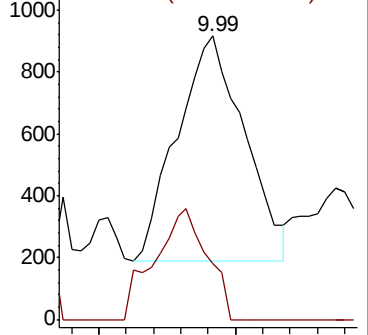
43 100

58 38.0 34.8 52.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#53

t-1,3-Dichloropropene

Concen: 1.246 ug/l

RT: 10.33 min Scan# 2661

Delta R.T. -0.05 min

Lab File: VN051989.D

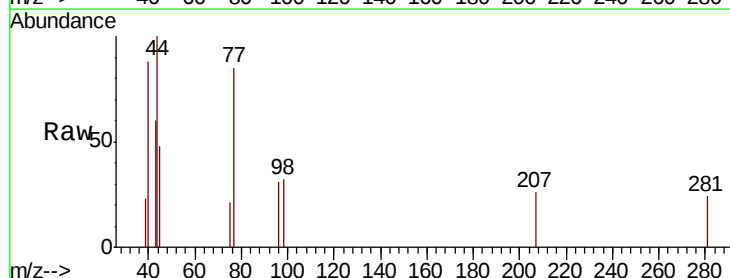
Acq: 24 Oct 2018 15:47

Tgt Ion: 75 Resp: 31

Ion Ratio Lower Upper

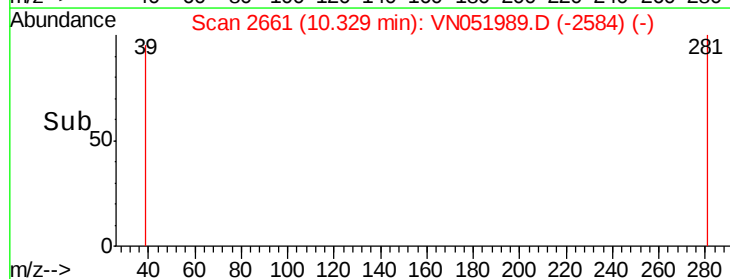
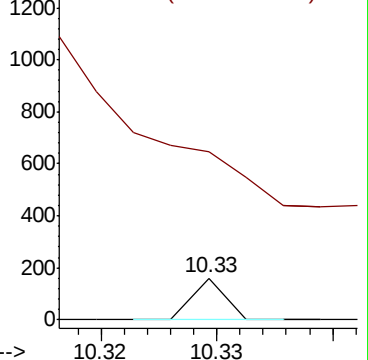
75 100

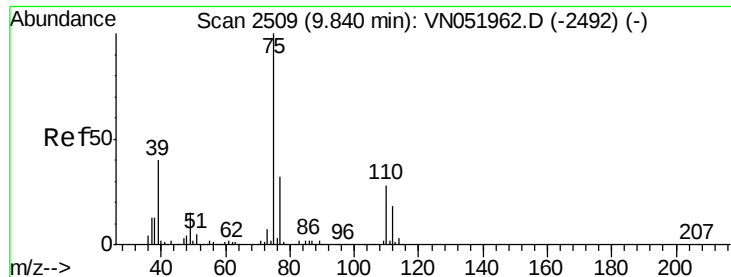
77 128.1 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

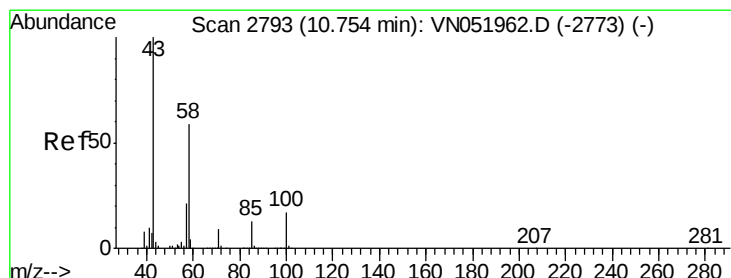
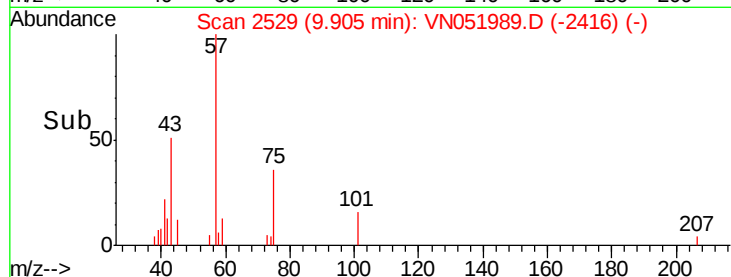
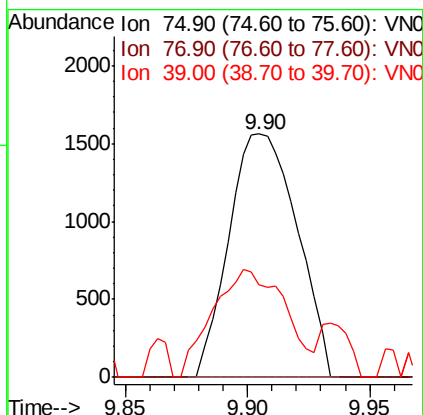
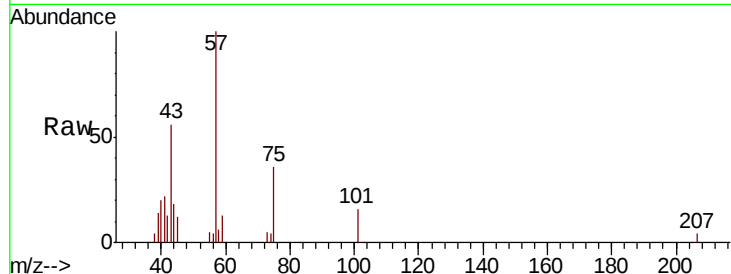




#54
 cis-1,3-Dichloropropene
 Concen: 0.227 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN051989.D
 Acq: 24 Oct 2018 15:47

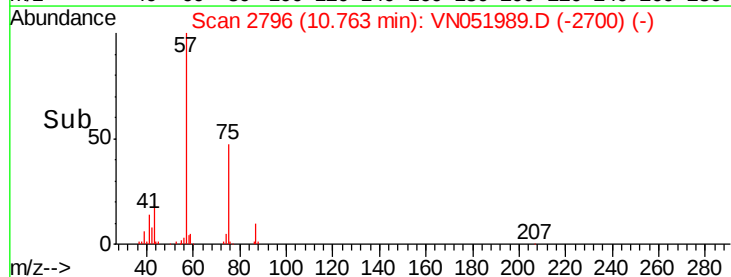
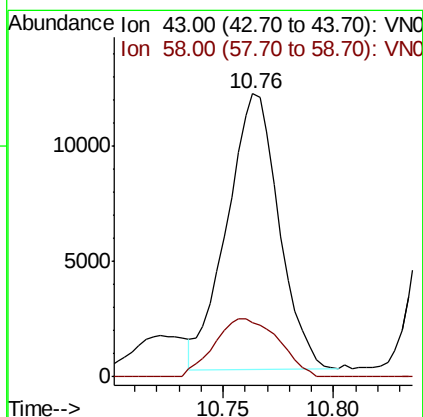
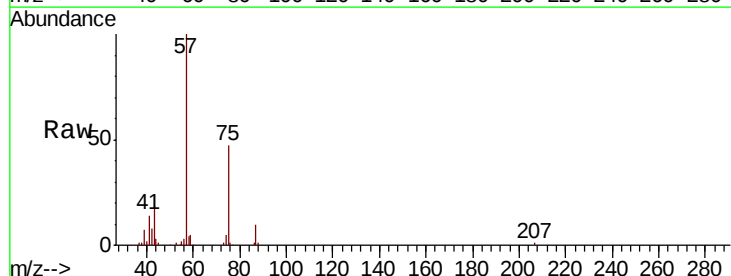
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114120ZHE#05

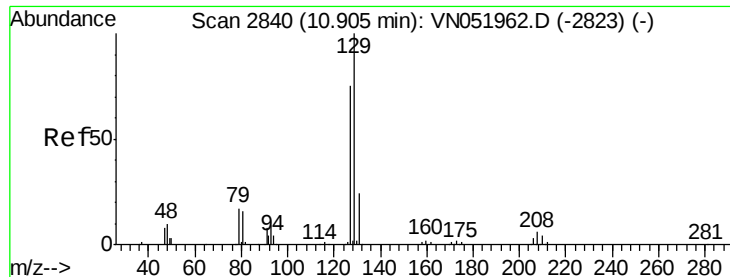
Tot Ion: 75 Resp: 3024
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 26.9 32.0 48.0#



#59
 2-Hexanone
 Concen: 5.050 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN051989.D
 Acq: 24 Oct 2018 15:47

Tgt Ion: 43 Resp: 19465
 Ion Ratio Lower Upper
 43 100
 58 26.2 29.9 89.8#





#60

Dibromochloromethane

Concen: 1.995 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

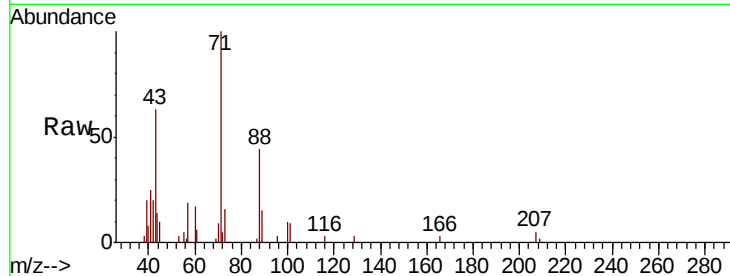
PB114120ZHE#05

Tot Ion:129 Resp: 214

Ion Ratio Lower Upper

129 100

127 0.0 38.0 114.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

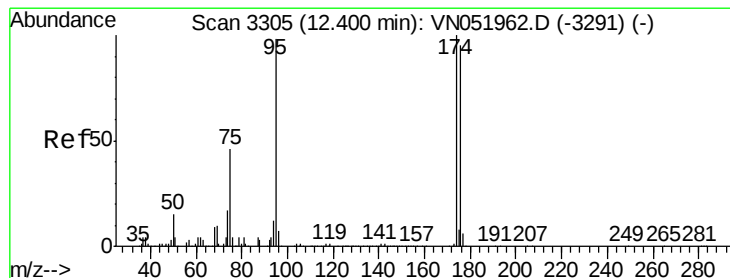
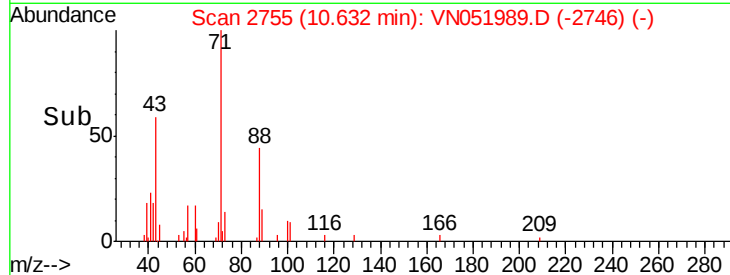
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

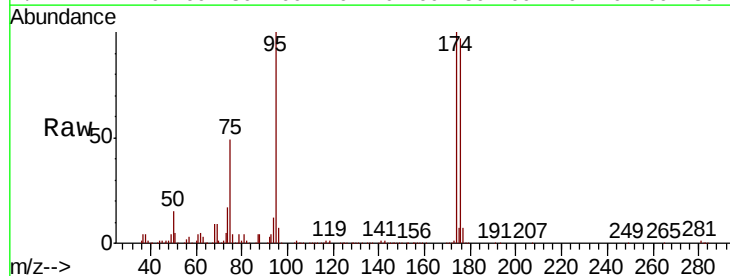
Tgt Ion: 95 Resp: 684234

Ion Ratio Lower Upper

95 100

174 100.2 0.0 206.0

176 96.8 0.0 198.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

500000

400000

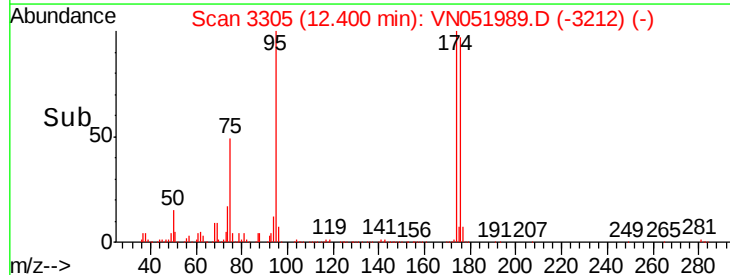
300000

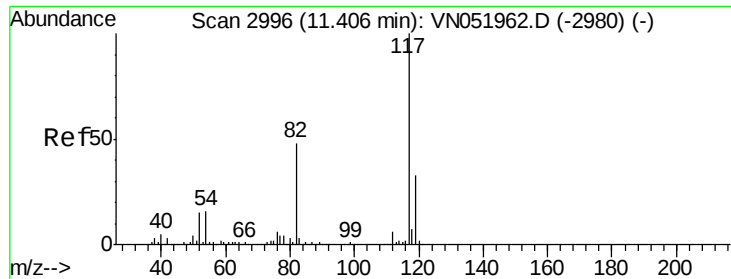
200000

100000

0

Time-->

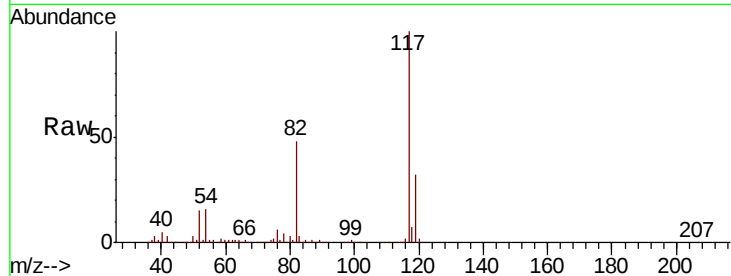




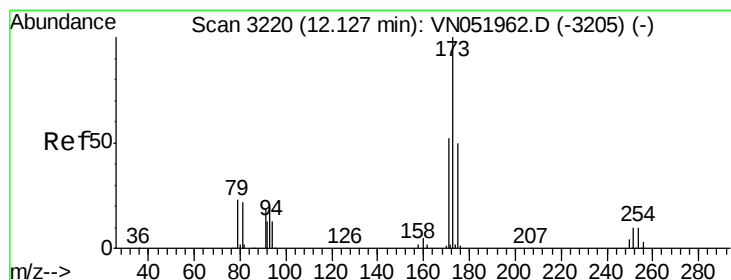
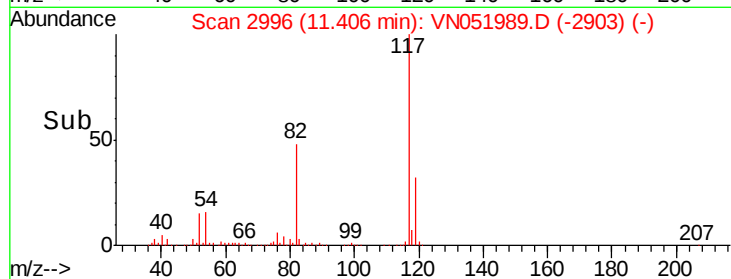
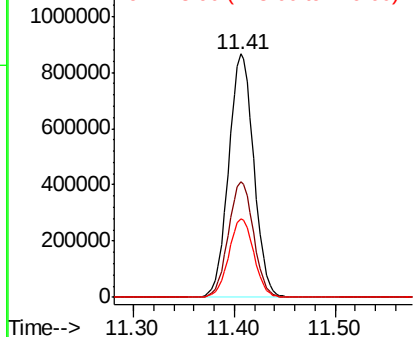
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051989.D
Acq: 24 Oct 2018 15:47

Instrument :
MSVOA_N
ClientSampleId :
PB114120ZHE#05

Tot Ion:117 Resp: 1501981
Ion Ratio Lower Upper
117 100
82 47.7 38.1 57.1
119 32.2 26.4 39.6

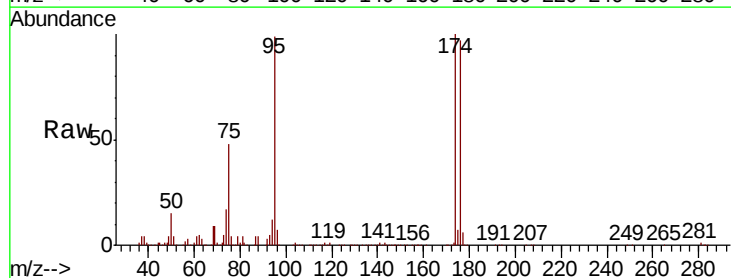


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

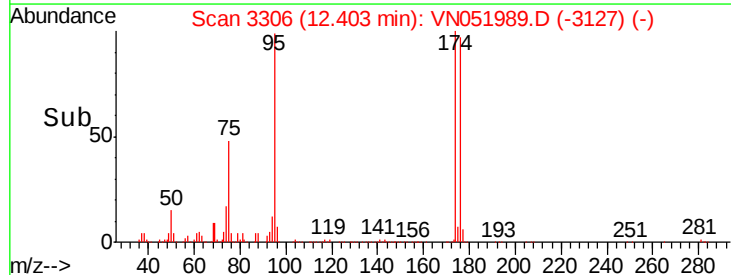
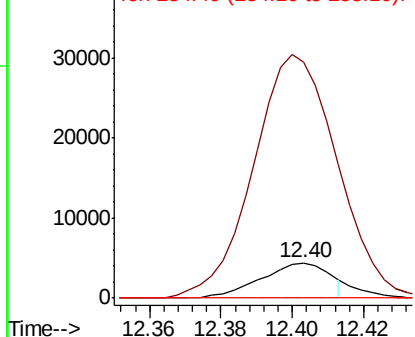


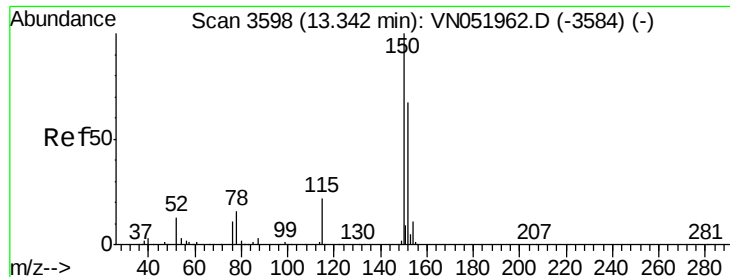
#71
Bromoform
Concen: 4.367 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051989.D
Acq: 24 Oct 2018 15:47

Tgt Ion:173 Resp: 5872
Ion Ratio Lower Upper
173 100
175 750.6 24.6 74.0#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#05

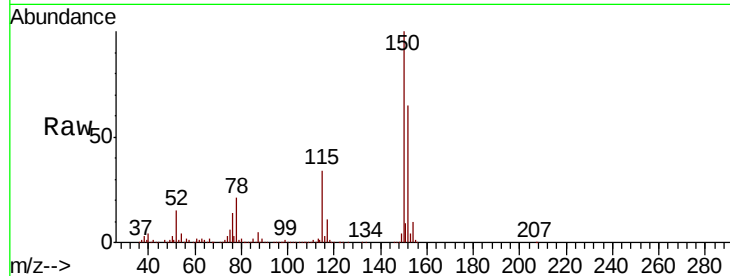
Tot Ion:152 Resp: 660789

Ion Ratio Lower Upper

152 100

115 54.2 25.8 77.3

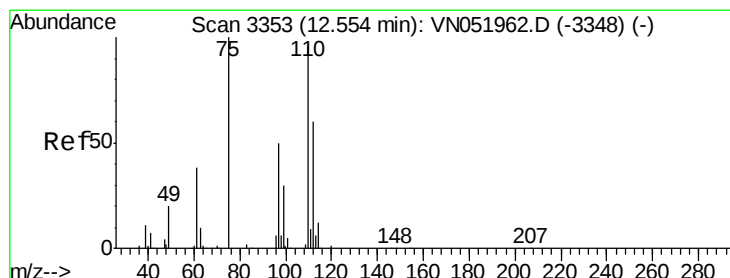
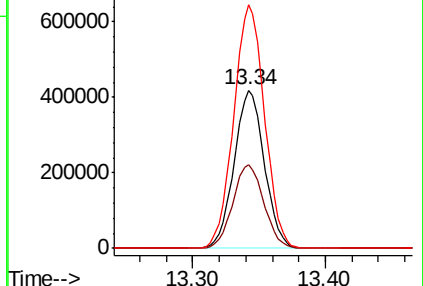
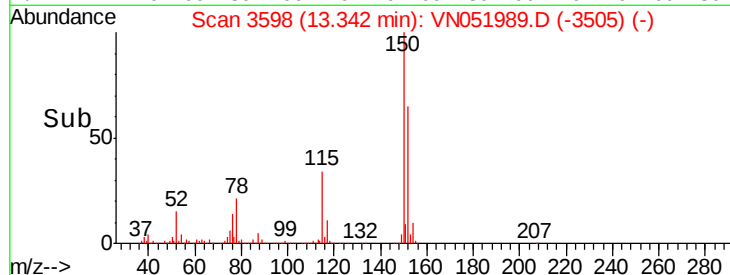
150 157.1 0.0 344.4



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: 48.418 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051989.D

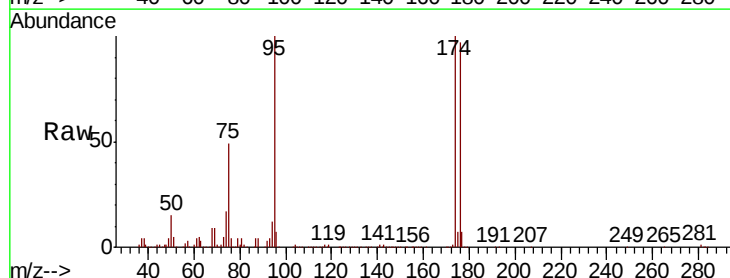
Acq: 24 Oct 2018 15:47

Tgt Ion: 75 Resp: 330479

Ion Ratio Lower Upper

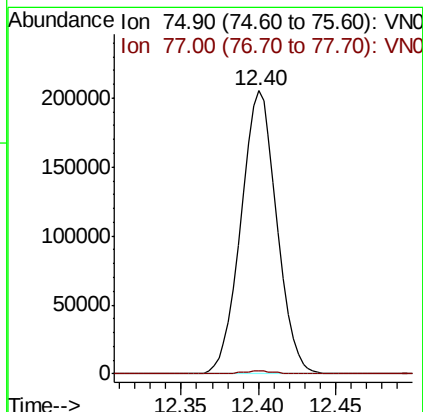
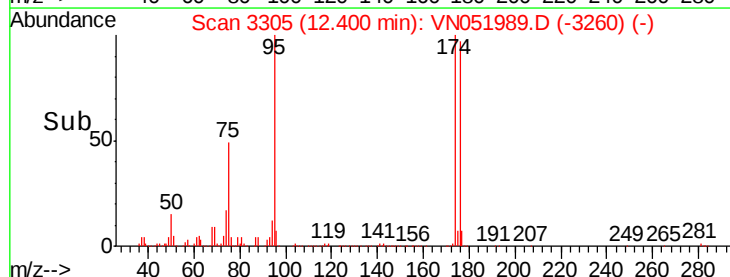
75 100

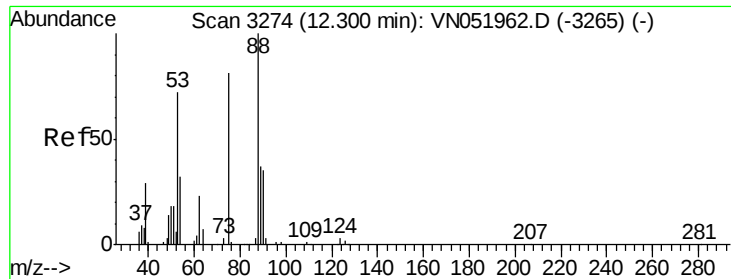
77 1.0 0.0 0.0#



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: 152.250 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051989.D

Acq: 24 Oct 2018 15:47

Instrument :

MSVOA_N

ClientSampleId :

PB114120ZHE#05

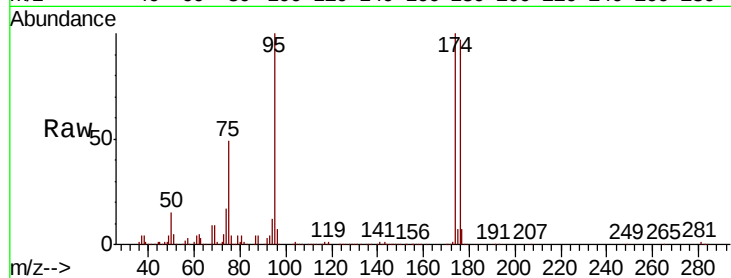
Tot Ion: 75 Resp: 330479

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#



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

