

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102618\
 Data File : VN052026.D
 Acq On : 26 Oct 2018 14:20
 Operator : MD\SY
 Sample : PB114195ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#03

Quant Time: Oct 26 23:22:50 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	1193137	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1728573	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1664141	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	788700	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	609577	57.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.72%	
35) Dibromofluoromethane	7.59	113	645684	58.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.08%	
50) Toluene-d8	10.09	98	2380529	59.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.44%	
62) 4-Bromofluorobenzene	12.40	95	764932	55.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.66%	

Target Compounds

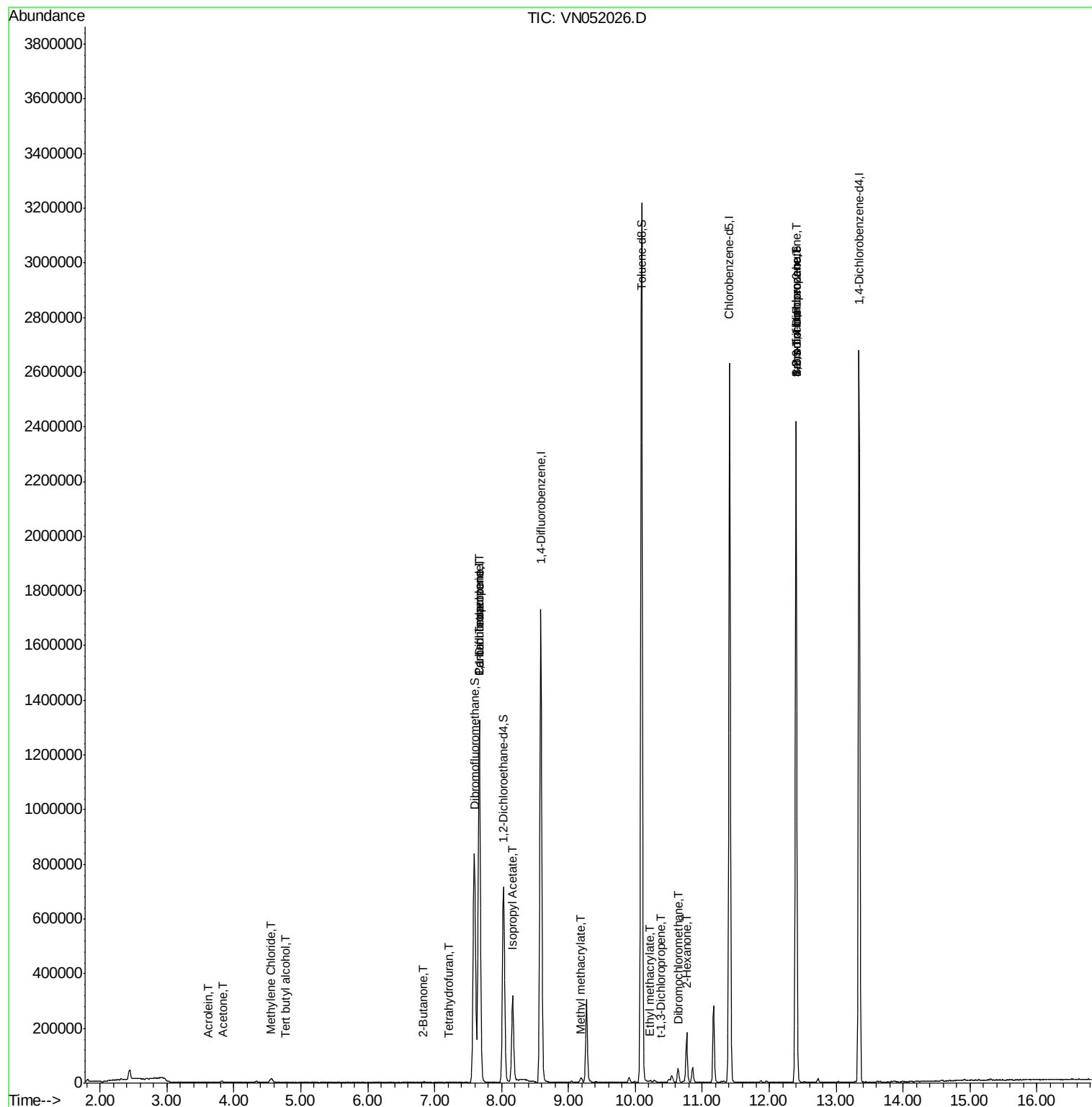
						Qvalue
11) Tert butyl alcohol	4.78	59	169	0.307	ug/l #	82
13) Acrolein	3.61	56	304	38.089	ug/l #	51
16) Acetone	3.83	43	8927	5.099	ug/l	88
18) Methyl Acetate	4.34	43	4385	Below Cal	#	61
20) Methylene Chloride	4.56	84	13015	1.267	ug/l	92
25) 2-Butanone	6.83	43	775	0.311	ug/l #	39
29) Tetrahydrofuran	7.21	42	626	0.370	ug/l #	47
31) Cyclohexane	7.67	56	18056	Below Cal	#	29
36) 1,1-Dichloropropene	7.67	75	69423	5.236	ug/l #	48
37) Ethyl Acetate	6.94	43	232	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	102551	6.737	ug/l #	16
43) Isopropyl Acetate	8.17	43	348510	31.384	ug/l	100
48) Methyl methacrylate	9.18	41	7354	1.370	ug/l #	9
53) t-1,3-Dichloropropene	10.39	75	112	1.252	ug/l #	9
56) Ethyl methacrylate	10.22	69	3951	0.373	ug/l #	87
59) 2-Hexanone	10.76	43	24768	6.035	ug/l #	55
60) Dibromochloromethane	10.64	129	301	2.001	ug/l #	11
71) Bromoform	12.40	173	7148	4.434	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	370967	45.535	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	370967	143.293	ug/l #	12

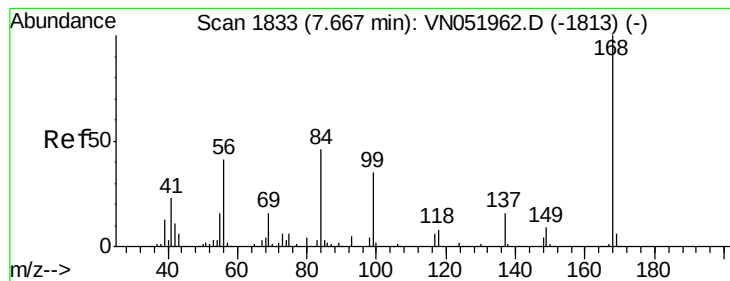
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 24 10:12:55 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

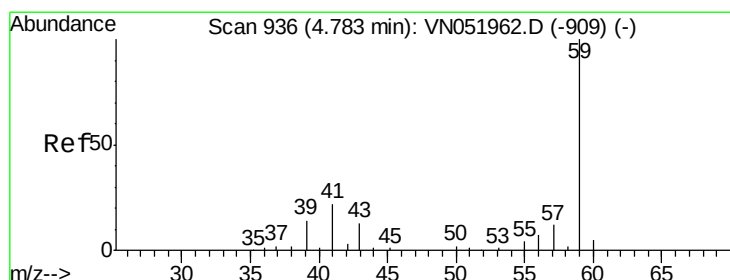
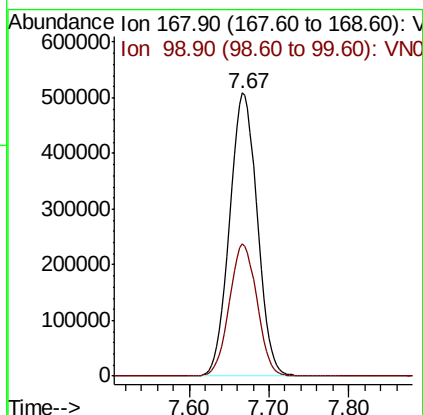
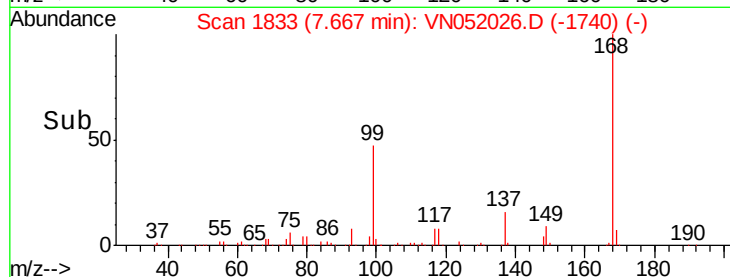
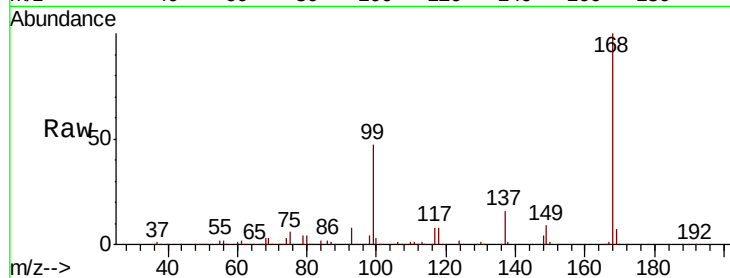
PB114195ZHE#03

Tot Ion:168 Resp: 1193137

Ion Ratio Lower Upper

168 100

99 46.6 37.8 56.6



#11

Tert butyl alcohol

Concen: 0.307 ug/l

RT: 4.78 min Scan# 935

Delta R.T. -0.00 min

Lab File: VN052026.D

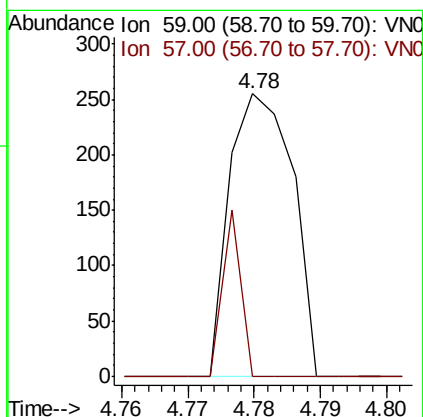
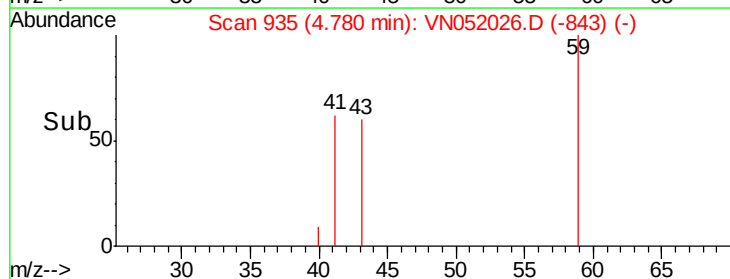
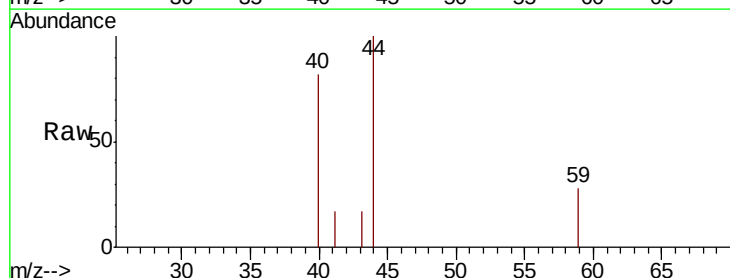
Acq: 26 Oct 2018 14:20

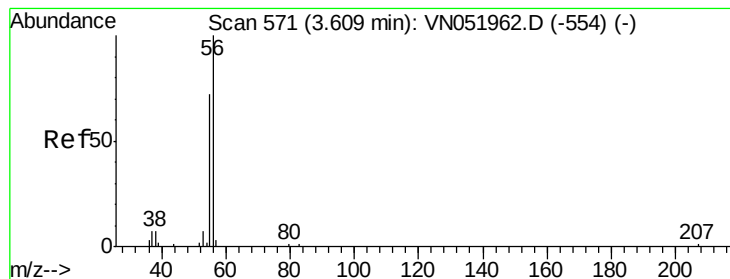
Tgt Ion: 59 Resp: 169

Ion Ratio Lower Upper

59 100

57 17.2 8.2 12.4#





#13

Acrolein

Concen: 38.089 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

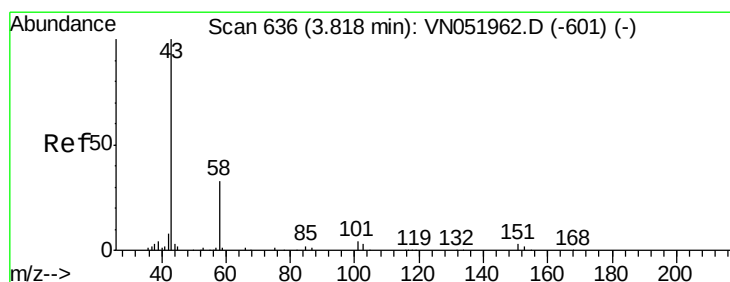
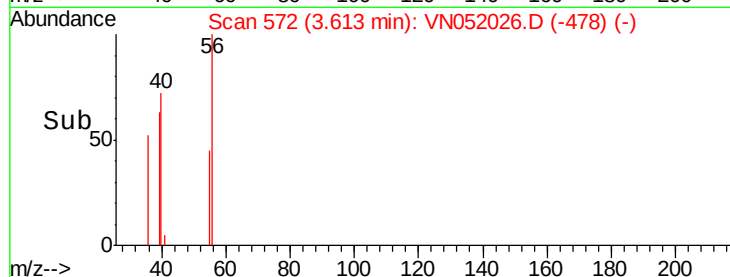
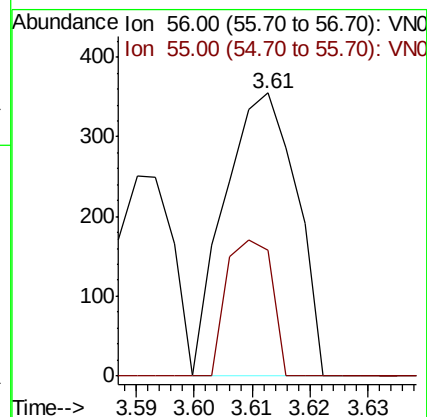
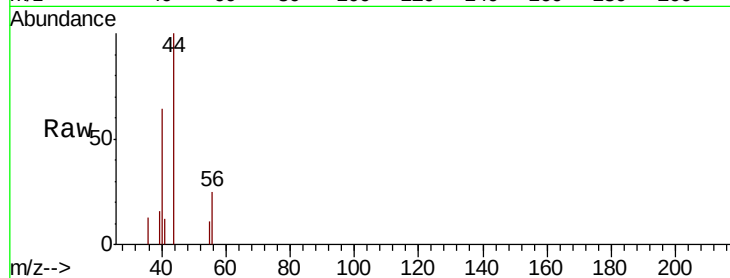
PB114195ZHE#03

Tot Ion: 56 Resp: 304

Ion Ratio Lower Upper

56 100

55 30.3 56.6 84.8#



#16

Acetone

Concen: 5.099 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052026.D

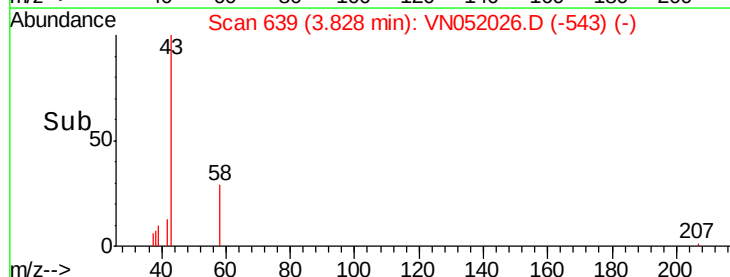
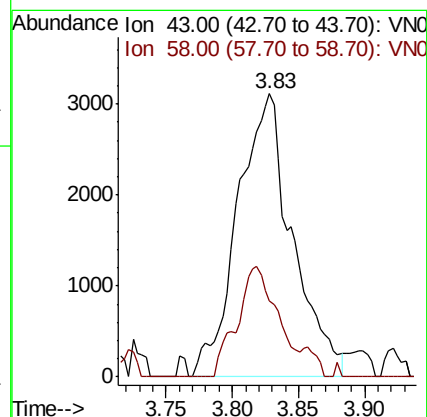
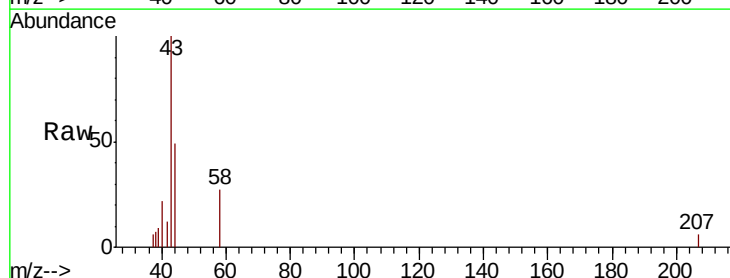
Acq: 26 Oct 2018 14:20

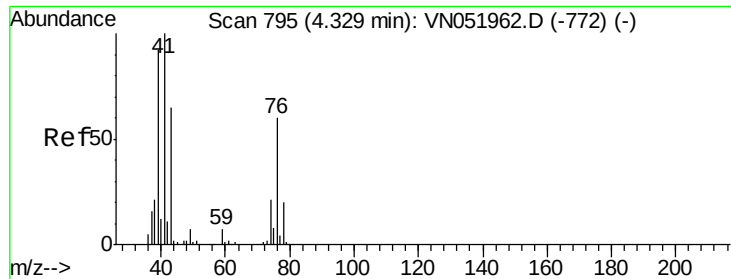
Tgt Ion: 43 Resp: 8927

Ion Ratio Lower Upper

43 100

58 26.7 26.7 40.1

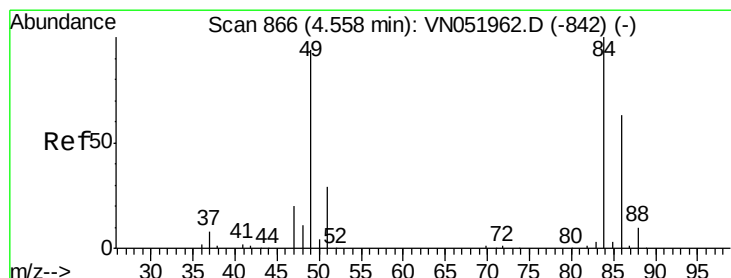
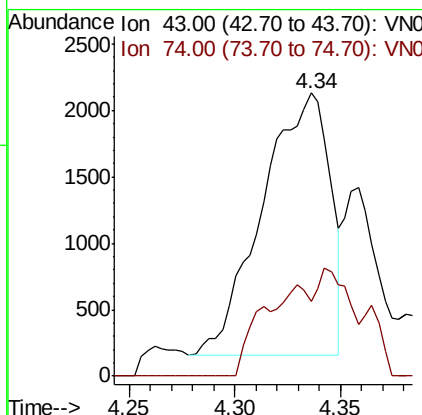
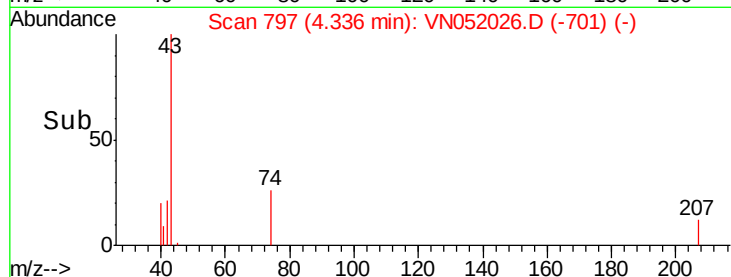
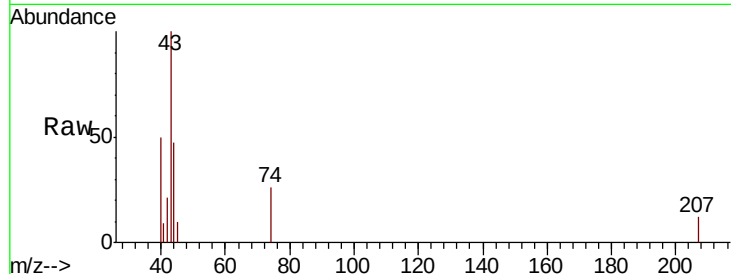




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN052026.D
Acq: 26 Oct 2018 14:20

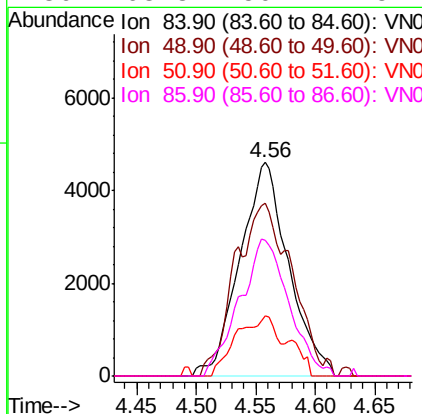
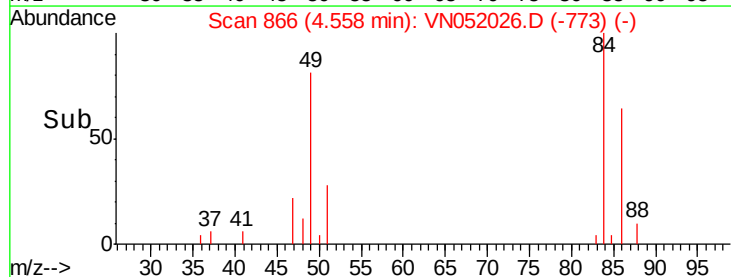
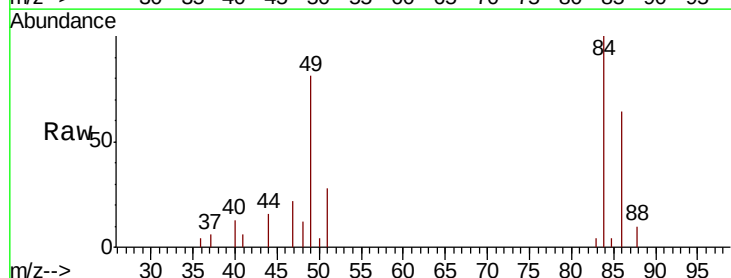
Instrument :
MSVOA_N
ClientSampleId :
PB114195ZHE#03

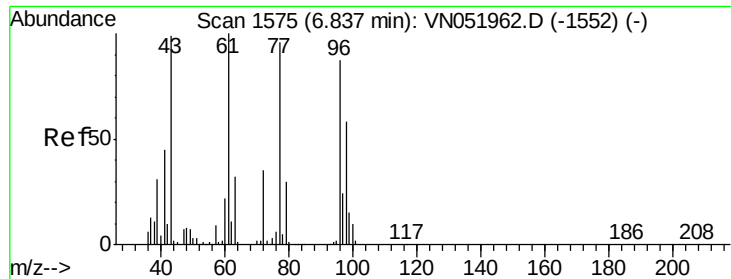
Tot Ion: 43 Resp: 4385
Ion Ratio Lower Upper
43 100
74 10.3 25.7 38.5#



#20
Methylene Chloride
Concen: 1.267 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052026.D
Acq: 26 Oct 2018 14:20

Tgt Ion: 84 Resp: 13015
Ion Ratio Lower Upper
84 100
49 80.9 75.4 113.0
51 28.4 23.1 34.7
86 63.8 50.2 75.4





#25

2-Butanone

Concen: 0.311 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

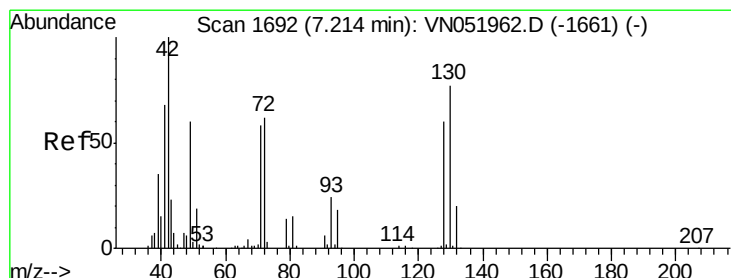
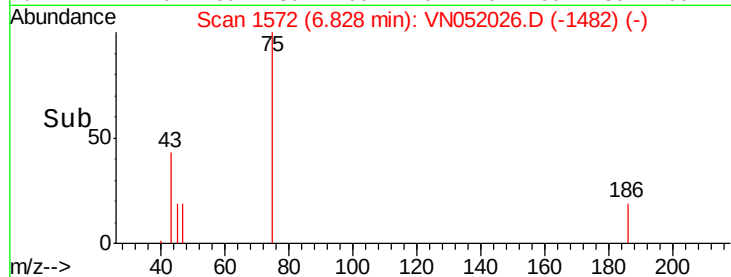
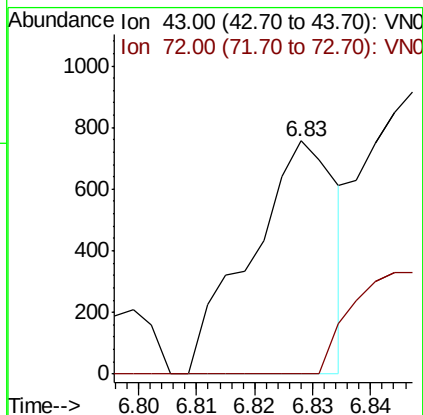
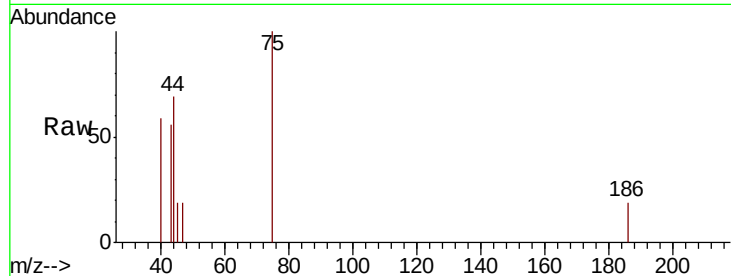
PB114195ZHE#03

Tot Ion: 43 Resp: 775

Ion Ratio Lower Upper

43 100

72 0.0 28.5 42.7#



#29

Tetrahydrofuran

Concen: 0.370 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.01 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

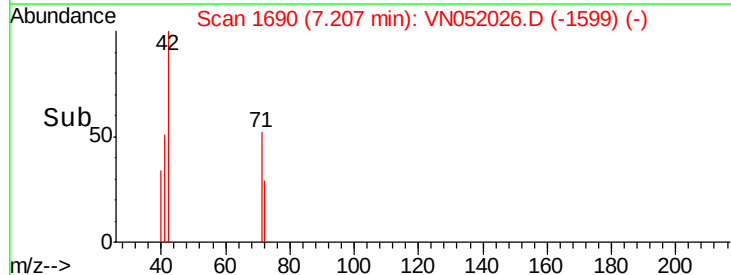
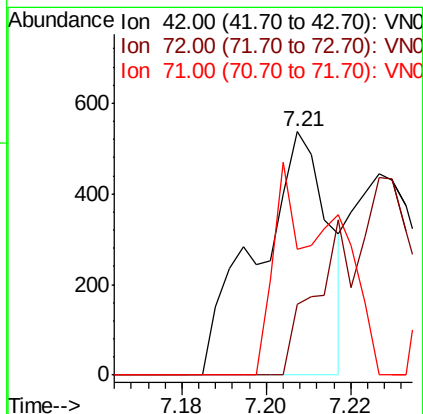
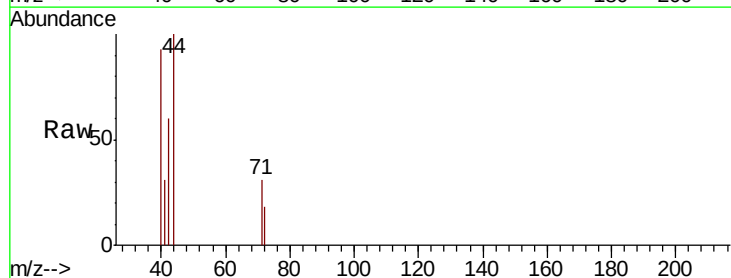
Tgt Ion: 42 Resp: 626

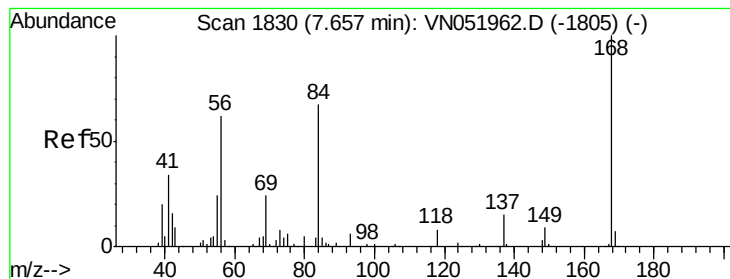
Ion Ratio Lower Upper

42 100

72 0.0 47.5 71.3#

71 38.3 45.4 68.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#03

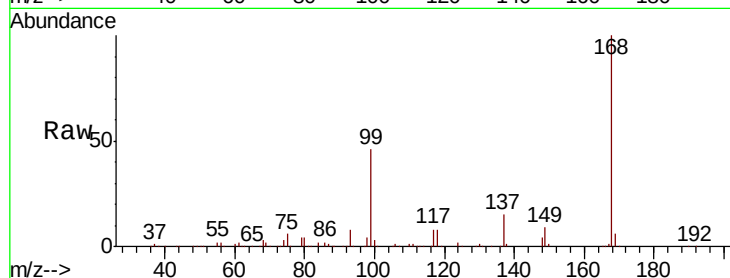
Tot Ion: 56 Resp: 18056

Ion Ratio Lower Upper

56 100

69 157.6 31.2 46.8#

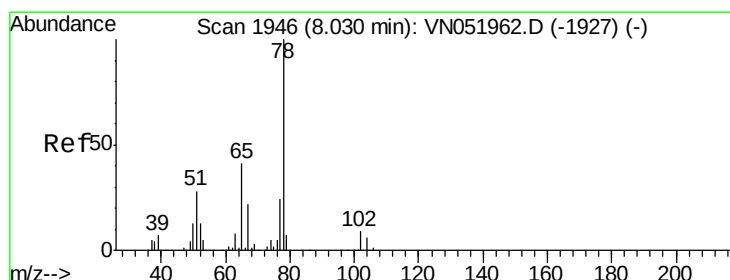
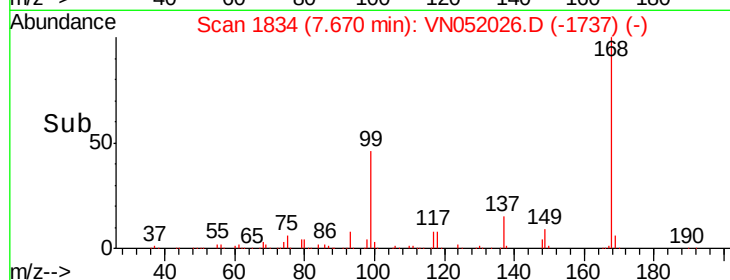
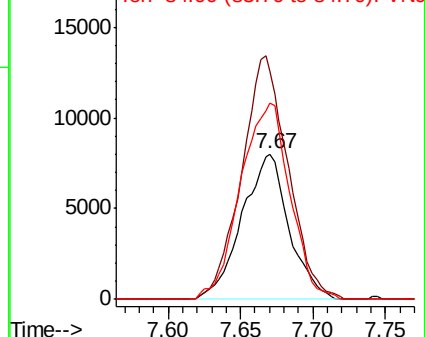
84 135.7 86.3 129.5#



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: VN052026.D

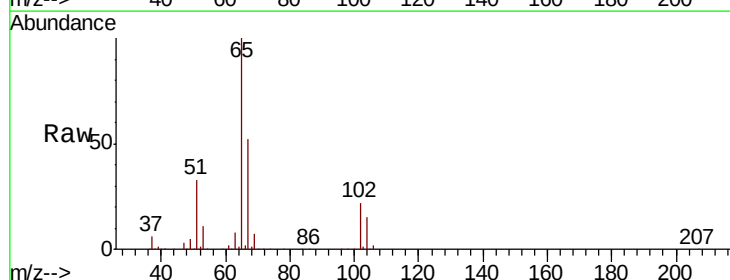
Acq: 26 Oct 2018 14:20

Tgt Ion: 65 Resp: 609577

Ion Ratio Lower Upper

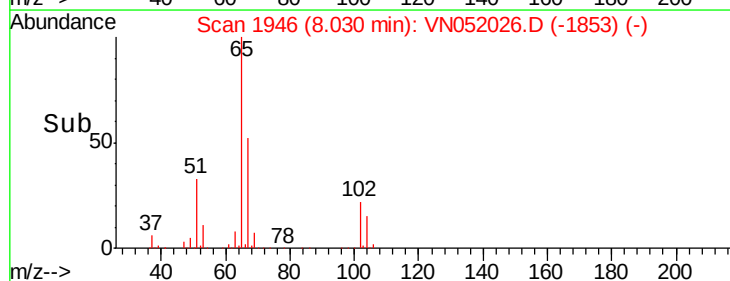
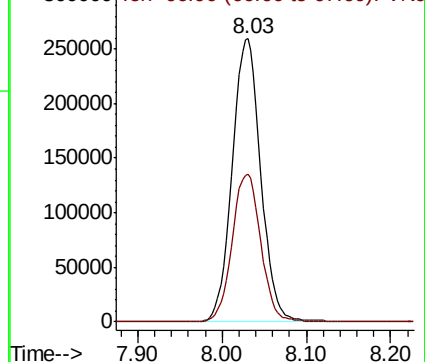
65 100

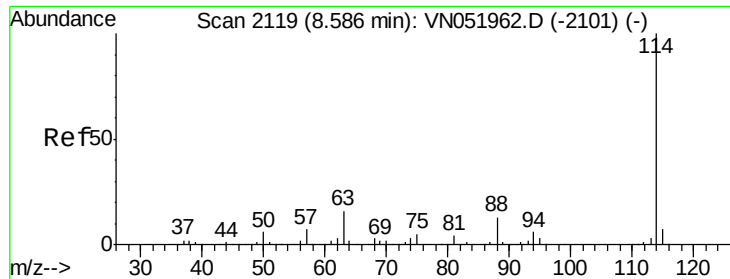
67 52.5 0.0 105.8



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: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#03

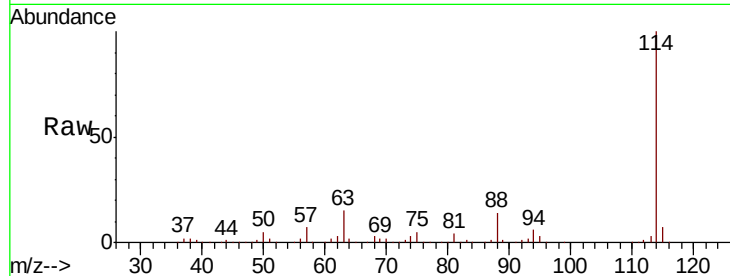
Tot Ion:114 Resp: 1728573

Ion Ratio Lower Upper

114 100

63 15.2 0.0 31.2

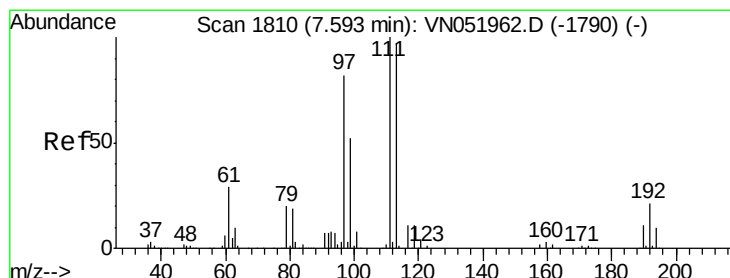
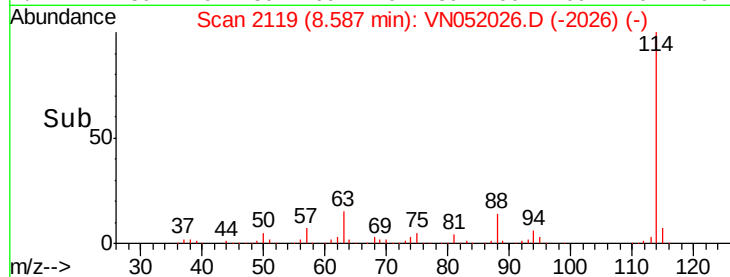
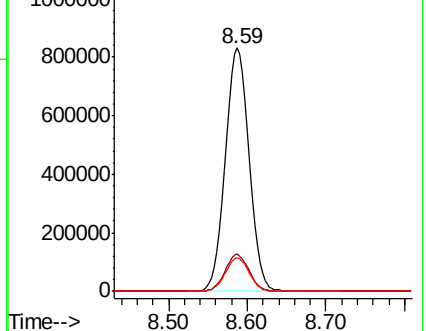
88 13.9 0.0 27.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

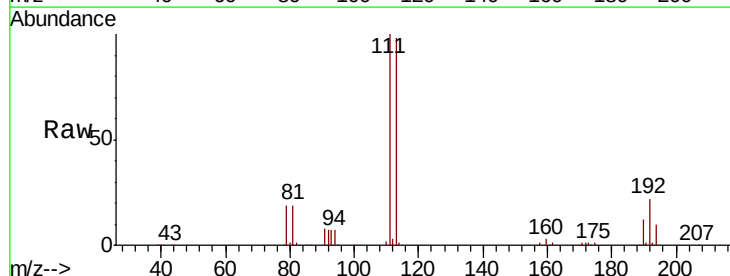
Tgt Ion:113 Resp: 645684

Ion Ratio Lower Upper

113 100

111 100.9 80.7 121.1

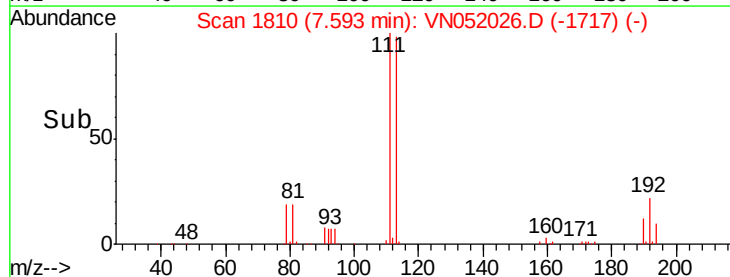
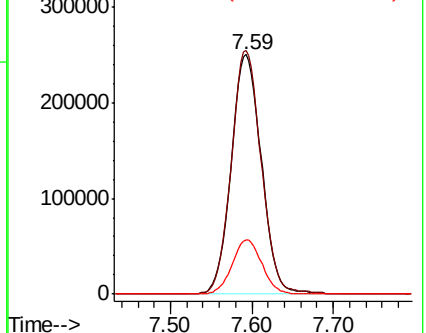
192 22.3 17.2 25.8

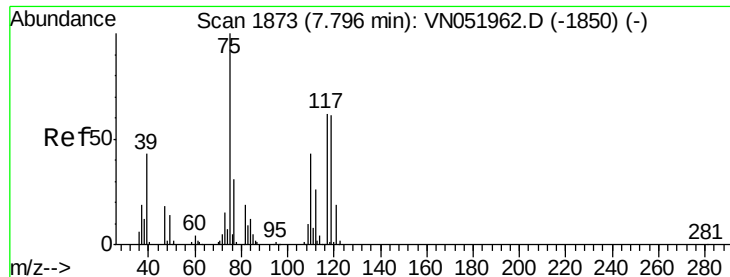


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

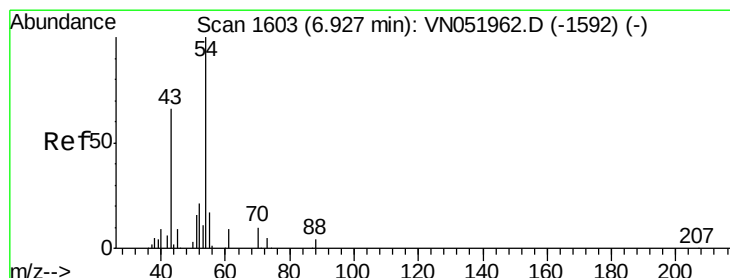
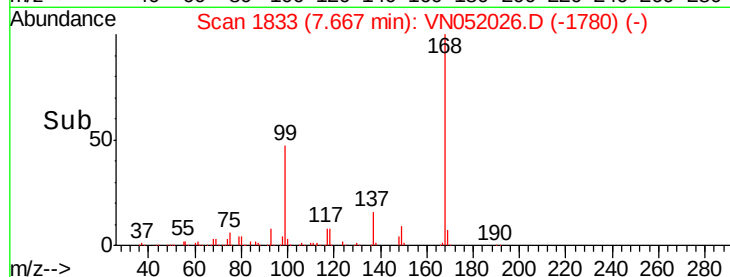
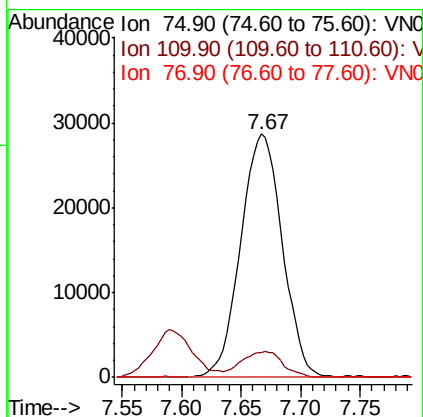
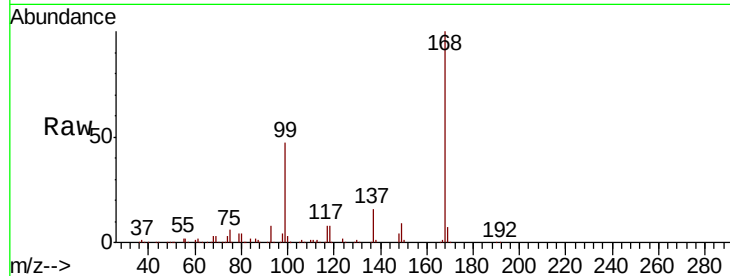




#36
 1,1-Dichloropropene
 Concen: 5.236 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052026.D
 Acq: 26 Oct 2018 14:20

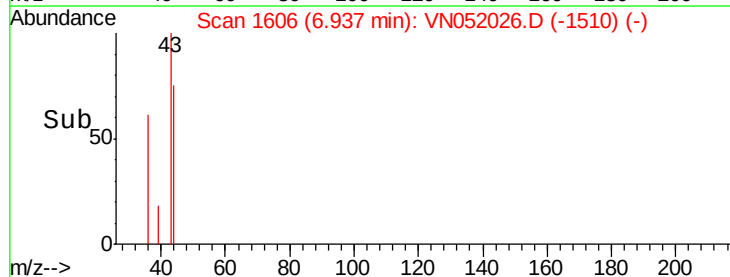
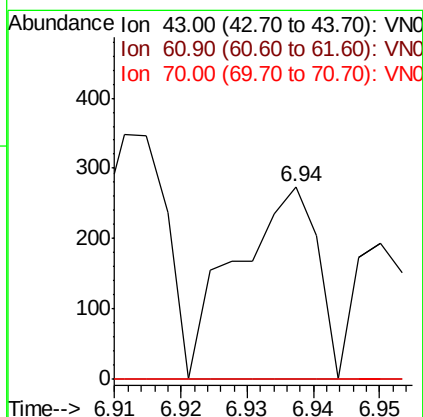
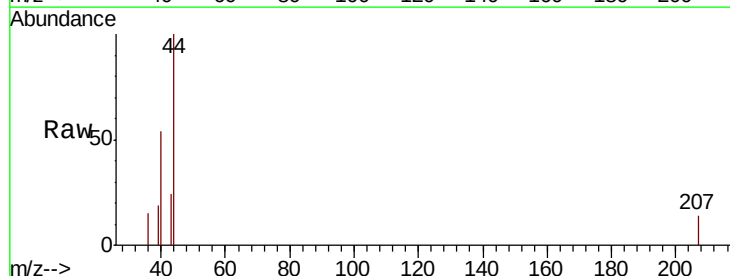
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114195ZHE#03

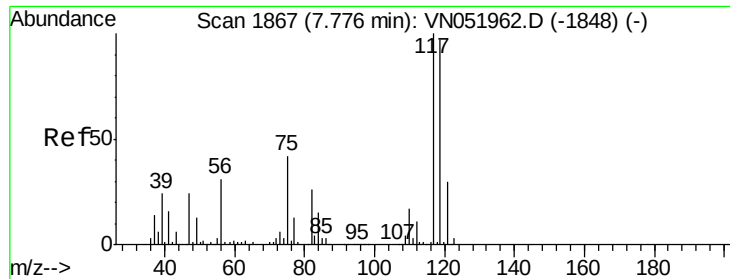
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	20.9	62.8#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 6.94 min Scan# 1606
 Delta R.T. 0.01 min
 Lab File: VN052026.D
 Acq: 26 Oct 2018 14:20

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	13.5	20.3#
70	0.0	9.8	14.6#





#38

Carbon Tetrachloride

Concen: 6.737 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#03

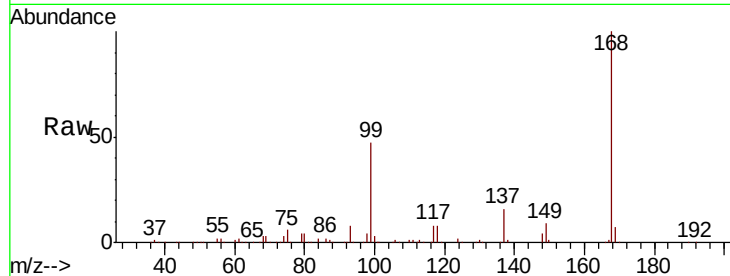
Tot Ion:117 Resp: 102551

Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.0#

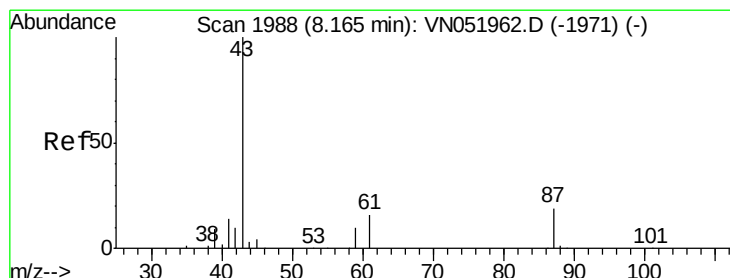
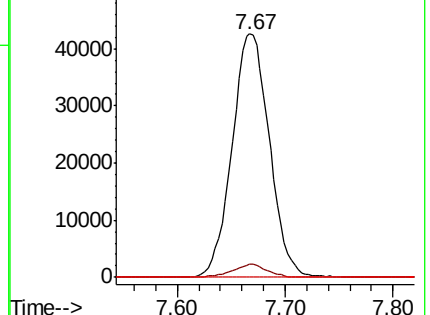
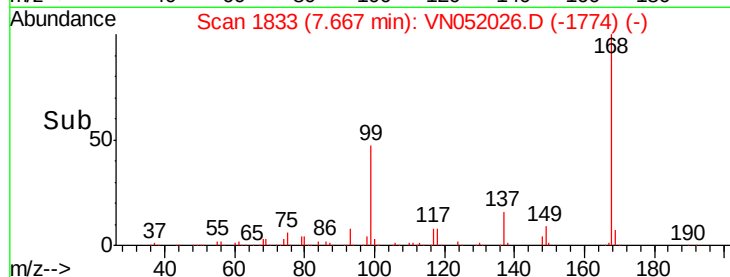
121 0.0 24.2 36.4#



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: 31.384 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

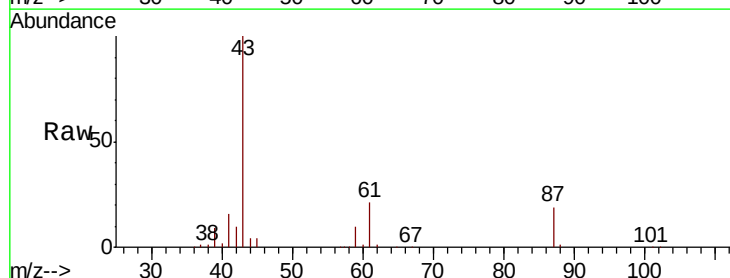
Tgt Ion: 43 Resp: 348510

Ion Ratio Lower Upper

43 100

61 21.3 17.2 25.8

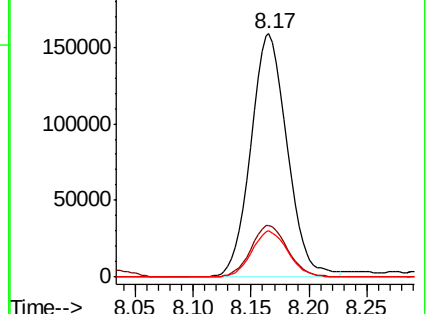
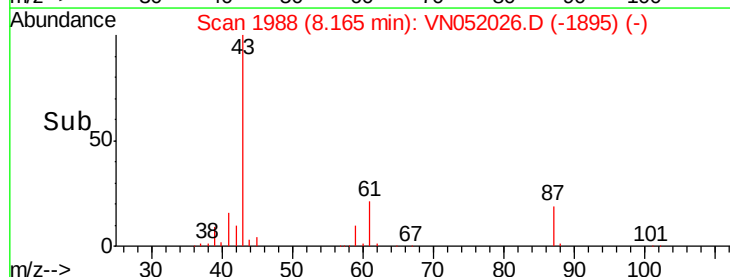
87 18.9 15.2 22.8

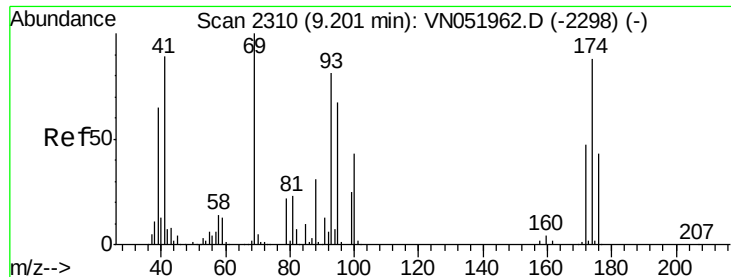


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methvl methacrylate

Concen: 1.370 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#03

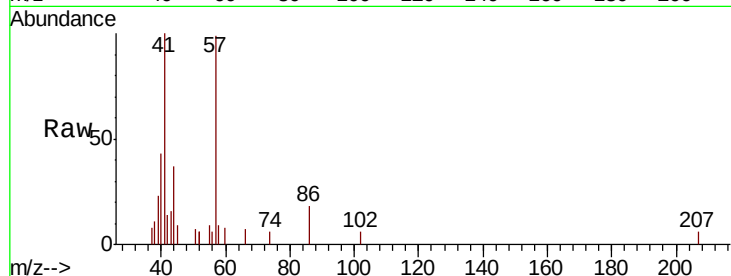
Tot Ion: 41 Resp: 7354

Ion Ratio Lower Upper

41 100

69 0.0 92.2 138.4#

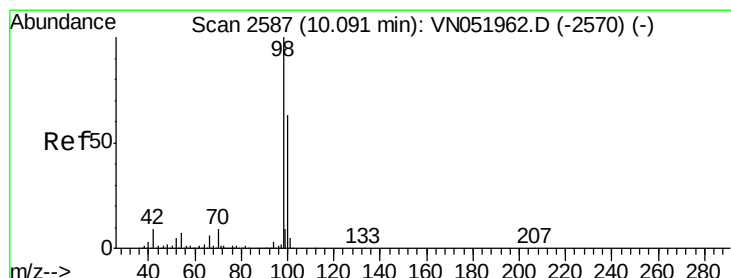
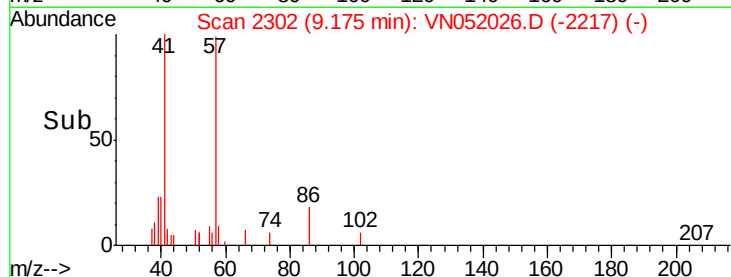
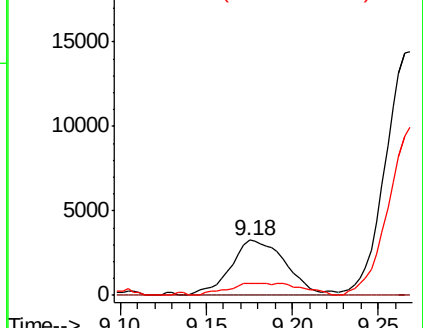
39 16.9 60.2 90.4#



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: VN052026.D

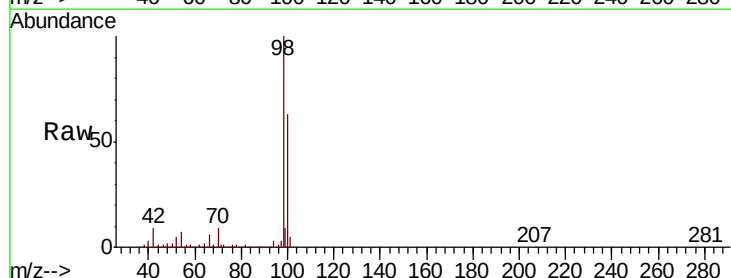
Acq: 26 Oct 2018 14:20

Tgt Ion: 98 Resp: 2380529

Ion Ratio Lower Upper

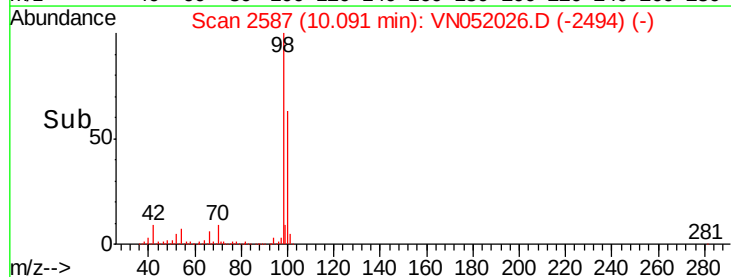
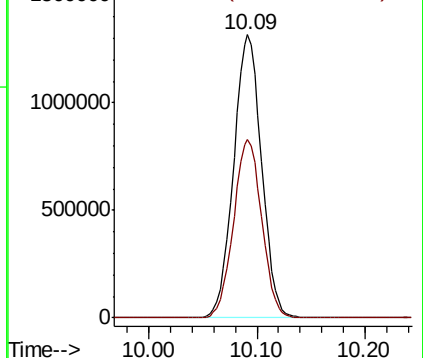
98 100

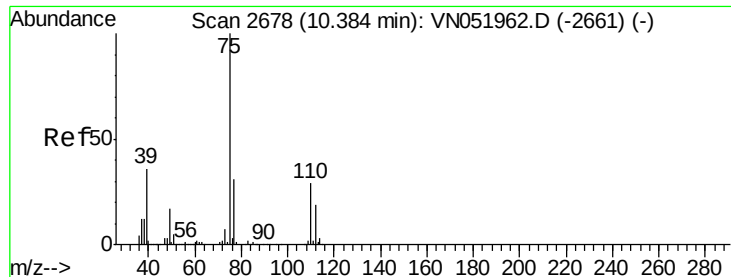
100 63.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#53

t-1,3-Dichloropropene

Concen: 1.252 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.00 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

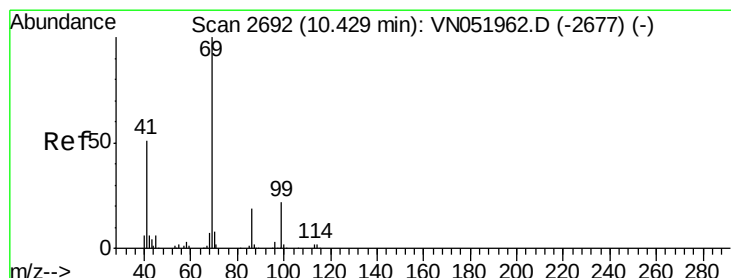
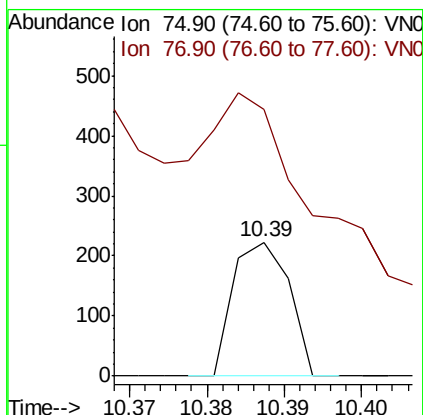
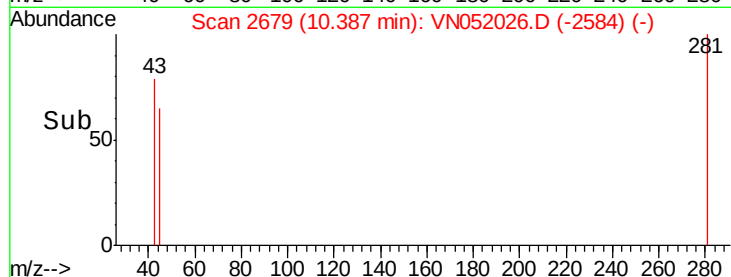
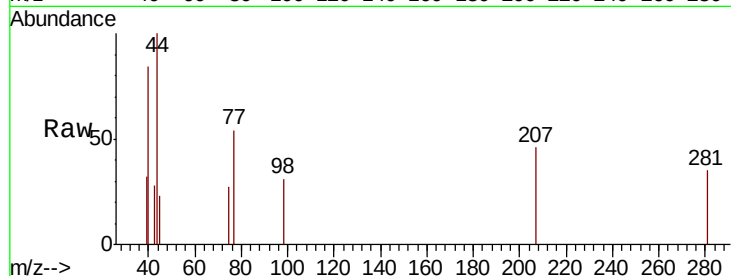
PB114195ZHE#03

Tot Ion: 75 Resp: 112

Ion Ratio Lower Upper

75 100

77 81.2 25.0 37.4#



#56

Ethyl methacrylate

Concen: 0.373 ug/l

RT: 10.22 min Scan# 2628

Delta R.T. -0.21 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

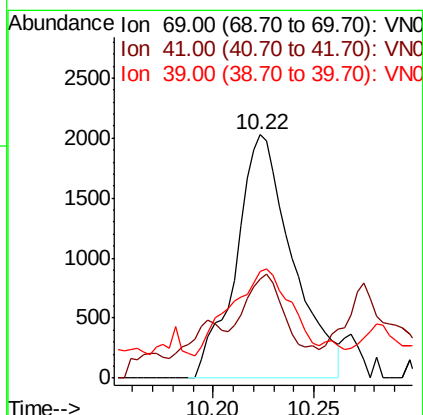
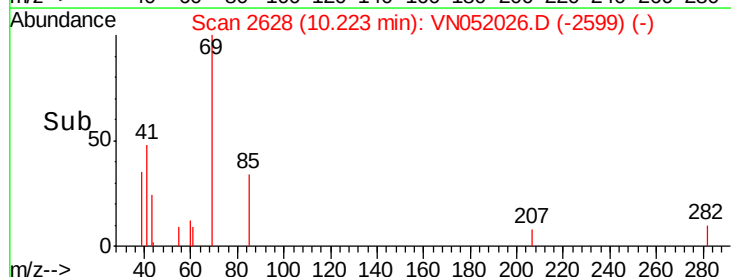
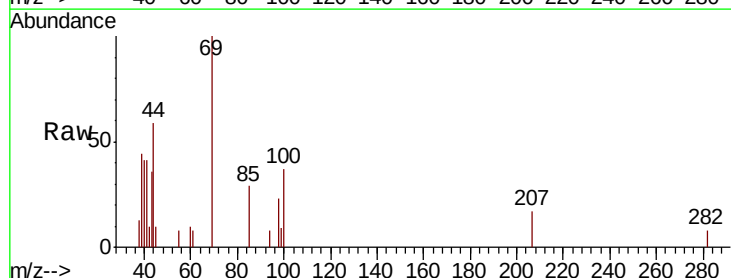
Tgt Ion: 69 Resp: 3951

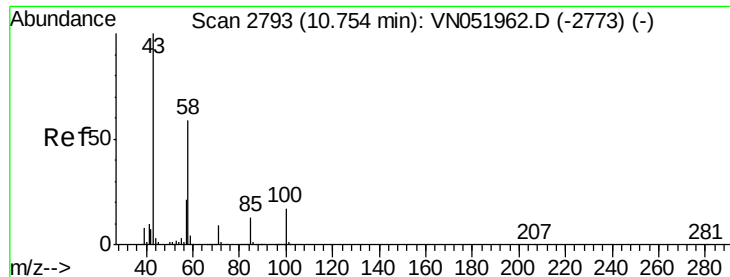
Ion Ratio Lower Upper

69 100

41 36.4 40.7 61.1#

39 37.9 29.3 43.9

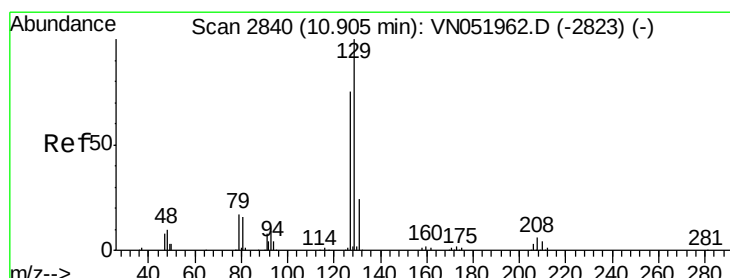
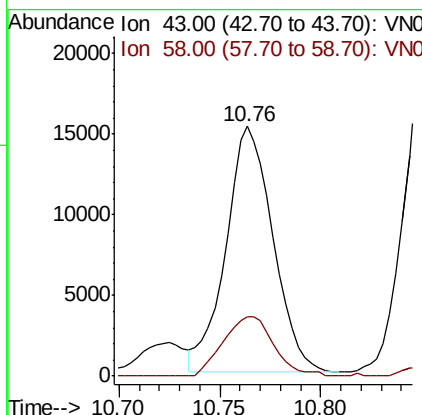
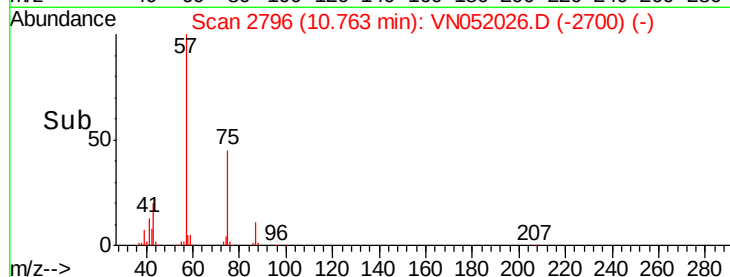
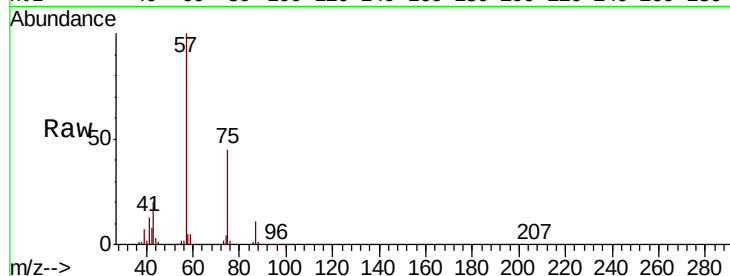




#59
2-Hexanone
Concen: 6.035 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052026.D
Acq: 26 Oct 2018 14:20

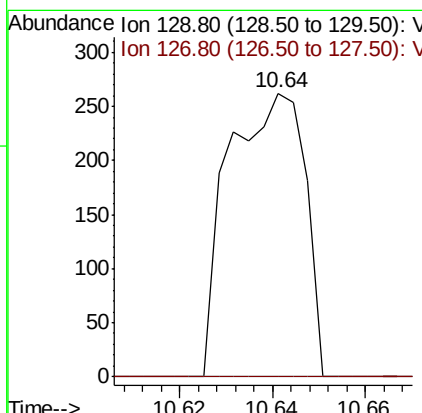
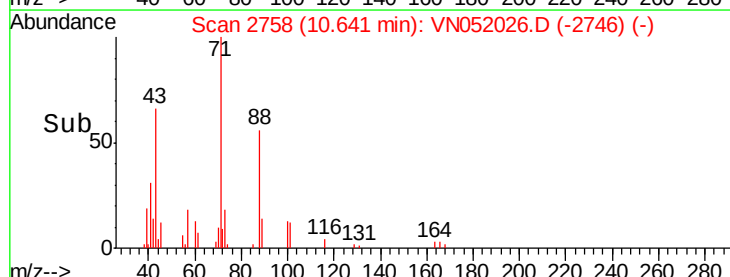
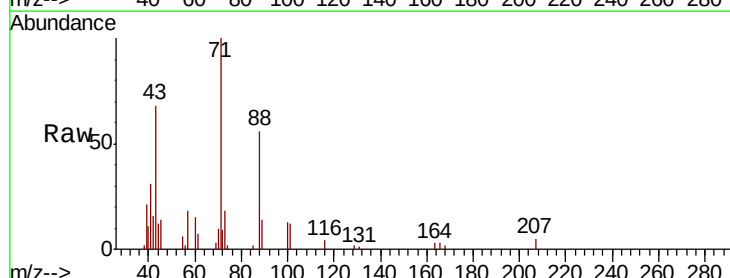
Instrument :
MSVOA_N
ClientSampleId :
PB114195ZHE#03

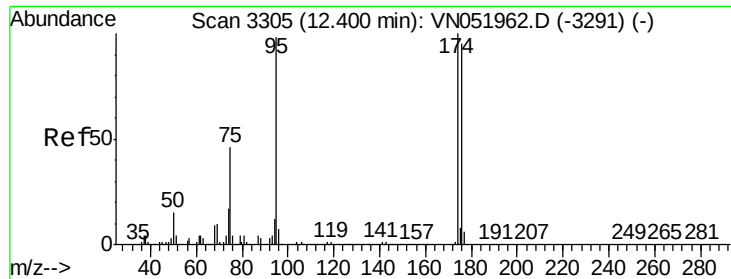
Tot Ion: 43 Resp: 24768
Ion Ratio Lower Upper
43 100
58 26.1 29.9 89.8#



#60
Dibromochloromethane
Concen: 2.001 ug/l
RT: 10.64 min Scan# 2758
Delta R.T. -0.26 min
Lab File: VN052026.D
Acq: 26 Oct 2018 14:20

Tgt Ion: 129 Resp: 301
Ion Ratio Lower Upper
129 100
127 0.0 38.0 114.0#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#03

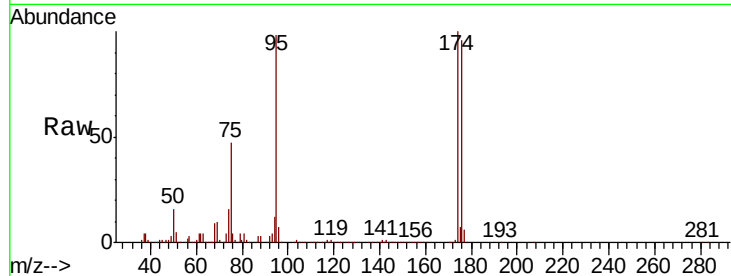
Tot Ion: 95 Resp: 764932

Ion Ratio Lower Upper

95 100

174 103.7 0.0 206.0

176 100.1 0.0 198.0



Abundance Ion 94.90 (94.60 to 95.60): VN051962.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051962.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051962.D (-3291) (-)

600000

500000

400000

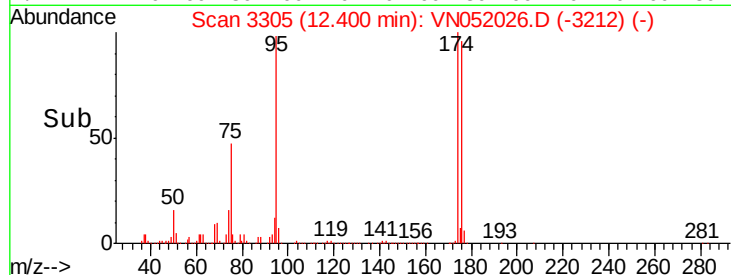
300000

200000

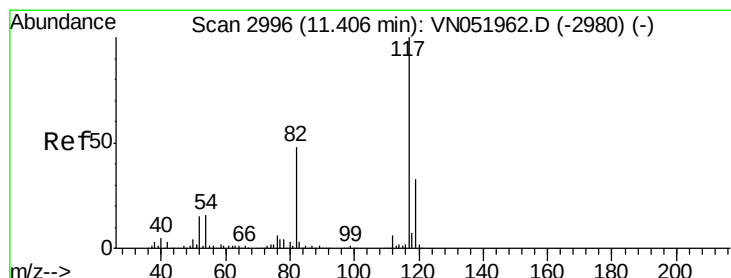
100000

0

12.30 12.40 12.50



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

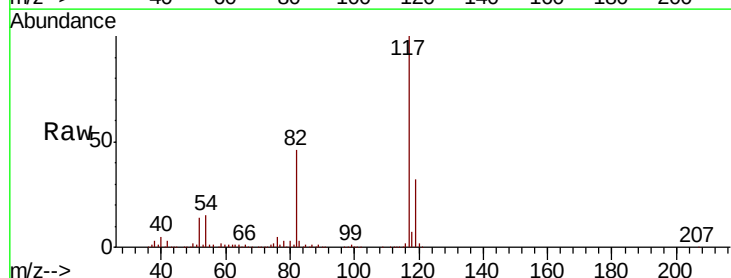
Tgt Ion: 117 Resp: 1664141

Ion Ratio Lower Upper

117 100

82 45.9 38.1 57.1

119 32.3 26.4 39.6



Abundance Ion 116.90 (116.60 to 117.60): VN051962.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051962.D (-2980) (-)

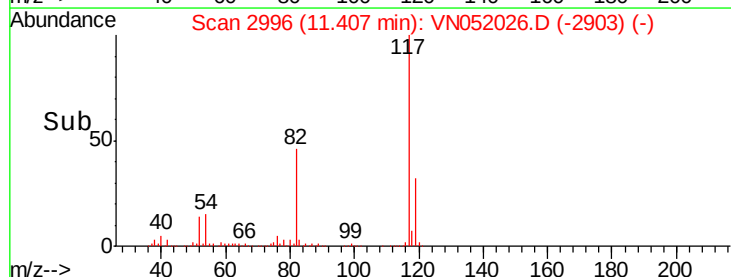
Ion 118.90 (118.60 to 119.60): VN051962.D (-2980) (-)

1000000

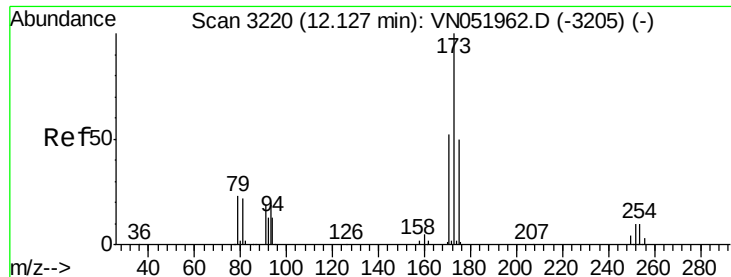
500000

0

11.30 11.40 11.50



Time-->



#71

Bromoform

Concen: 4.434 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

PB114195ZHE#03

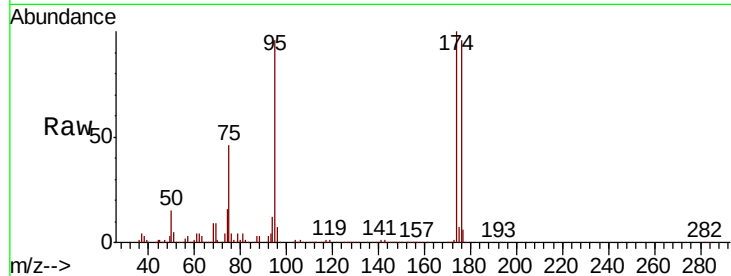
Tot Ion:173 Resp: 7148

Ion Ratio Lower Upper

173 100

175 717.6 24.6 74.0#

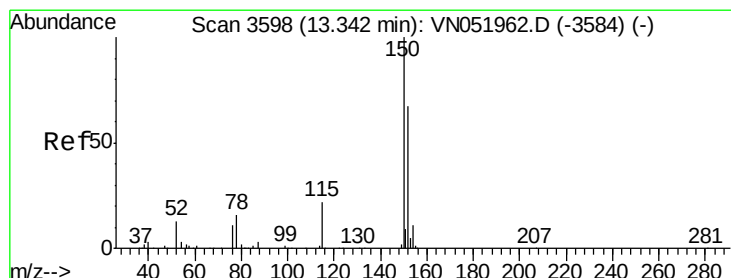
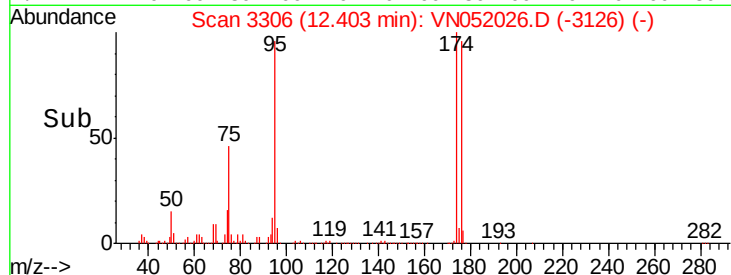
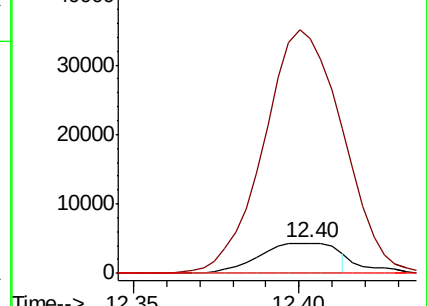
254 0.0 0.1 0.1#



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: VN052026.D

Acq: 26 Oct 2018 14:20

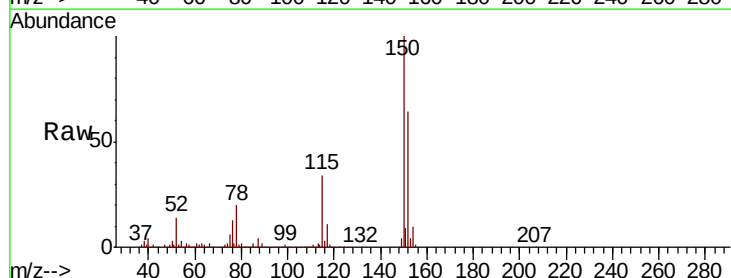
Tgt Ion:152 Resp: 788700

Ion Ratio Lower Upper

152 100

115 52.6 25.8 77.3

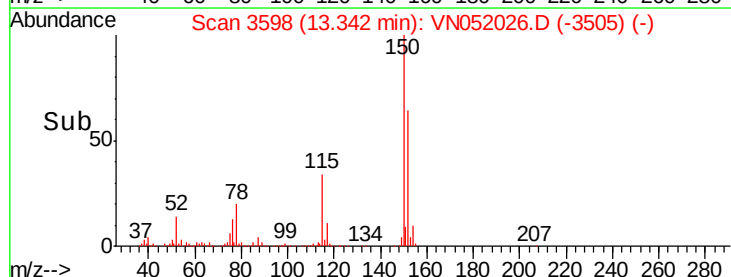
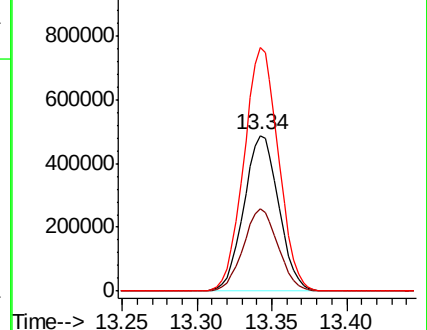
150 155.6 0.0 344.4

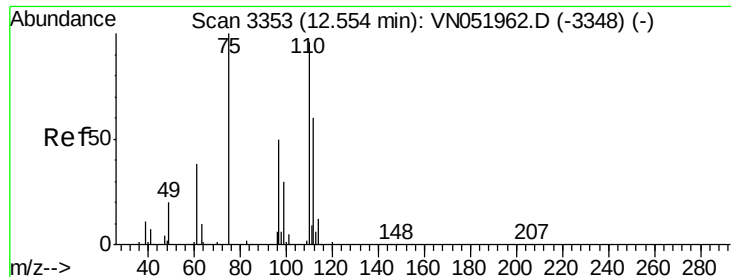


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 45.535 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

Instrument :

MSVOA_N

ClientSampleId :

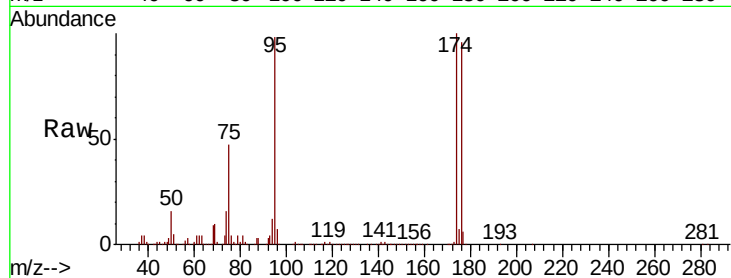
PB114195ZHE#03

Tot Ion: 75 Resp: 370967

Ion Ratio Lower Upper

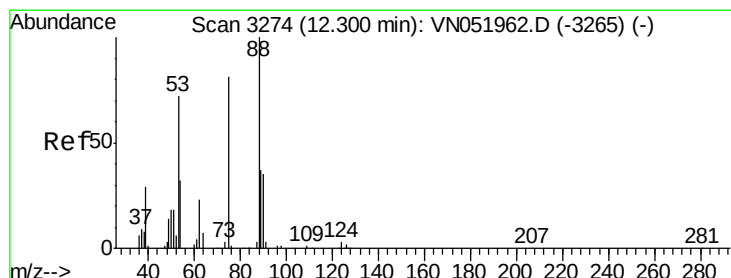
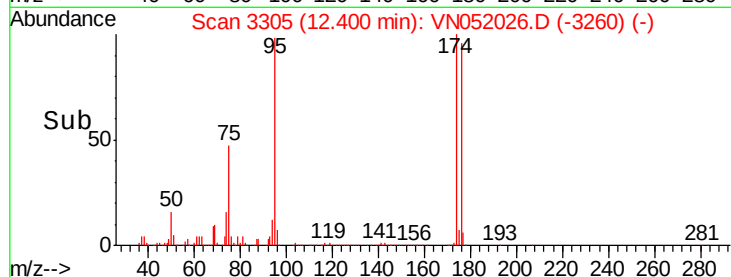
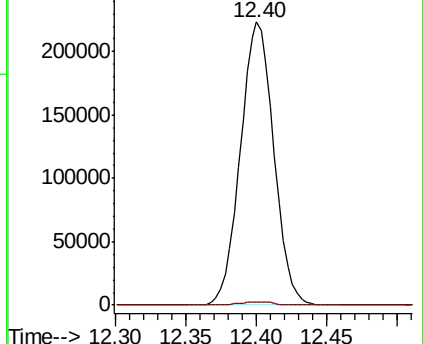
75 100

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: 143.293 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052026.D

Acq: 26 Oct 2018 14:20

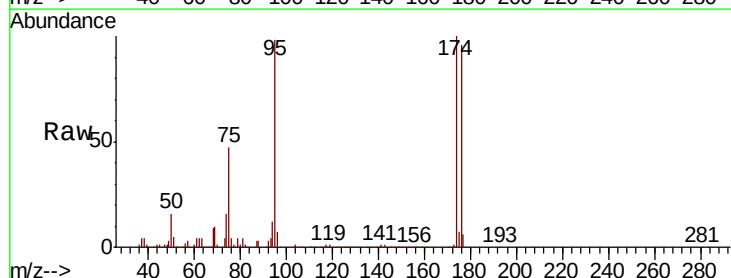
Tgt Ion: 75 Resp: 370967

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

