

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112818\
 Data File : VN052537.D
 Acq On : 28 Nov 2018 23:54
 Operator : MD\SY
 Sample : J6067-02DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 35 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-2DL

Quant Time: Nov 29 02:35:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	176057	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1014571	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	832482	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		8.03	65	354486	29.55	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.50%	
60) 4-Bromofluorobenzene		12.40	95	333020	26.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.20%	
63) Toluene-d8		10.09	98	1171793	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%	

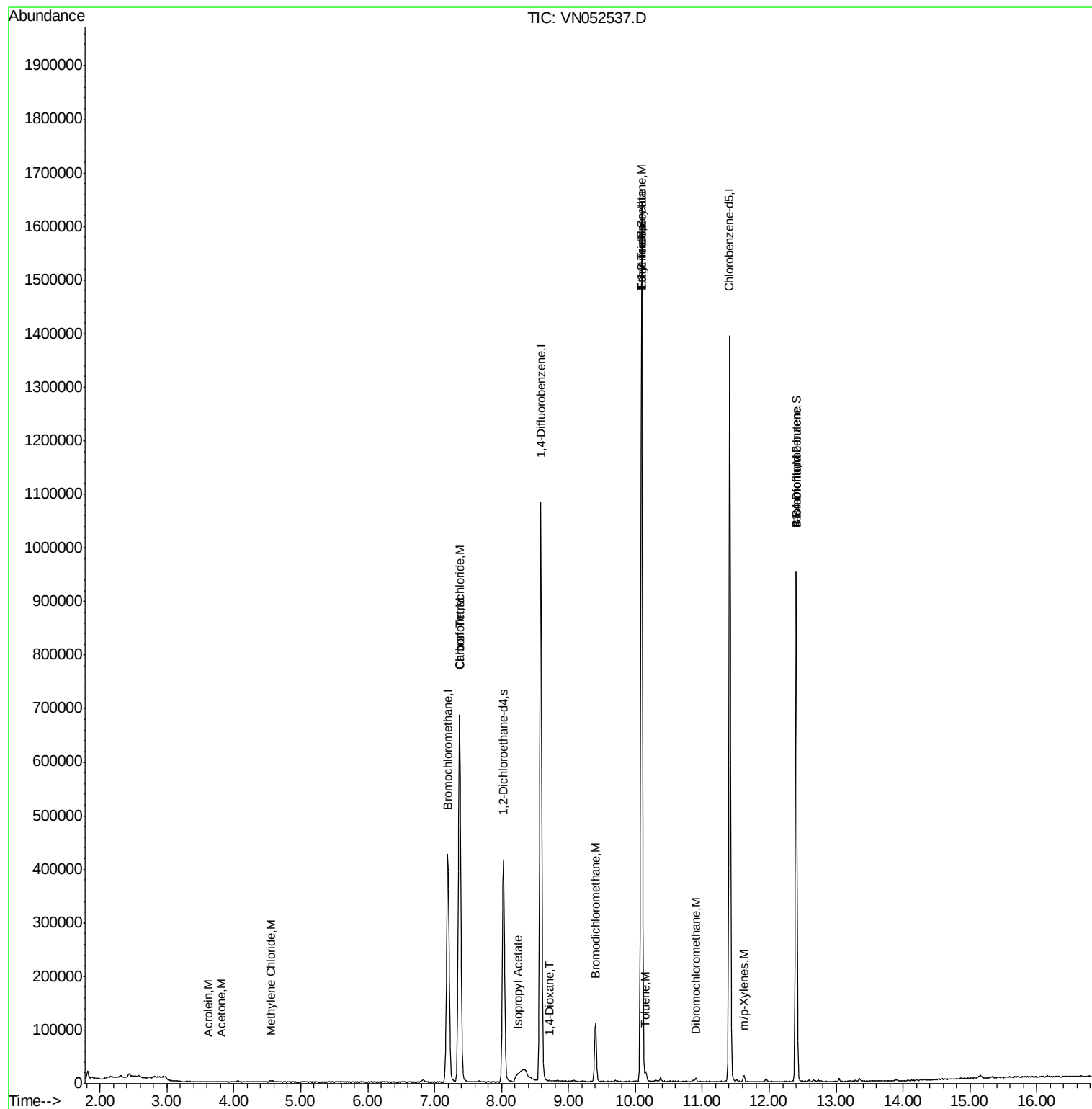
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acrolein	3.61	56	363	0.368	ug/l #	72
15) Acetone	3.82	58	219	0.237	ug/l #	1
18) Methylene Chloride	4.55	84	2387	0.209	ug/l #	77
25) Chloroform	7.37	83	744205	37.406	ug/l	99
33) Carbon Tetrachloride	7.37	117	8572	0.608	ug/l #	89
41) Bromodichloromethane	9.40	83	79350	5.323	ug/l	100
44) Isopropyl Acetate	8.25	43	16075	1.040	ug/l #	57
45) 1,4-Dioxane	8.72	88	64	0.757	ug/l #	20
50) 1,1,2-Trichloroethane	10.10	97	34529	3.610	ug/l #	1
51) Ethyl methacrylate	10.10	69	3439	0.286	ug/l	92
53) Dibromochloromethane	10.90	129	3802	0.361	ug/l	92
56) Bromoform	12.40	173	2129	0.309	ug/l #	1
62) Toluene	10.16	91	10067	0.219	ug/l	99
67) m/p-Xylenes	11.62	106	4330	0.235	ug/l	98
77) t-1,4-Dichloro-2-butene	12.40	75	159169	56.702	ug/l #	11

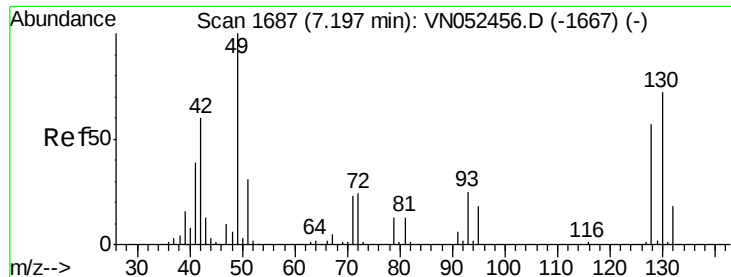
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052537.D

Acq: 28 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampled :

14B-2DL

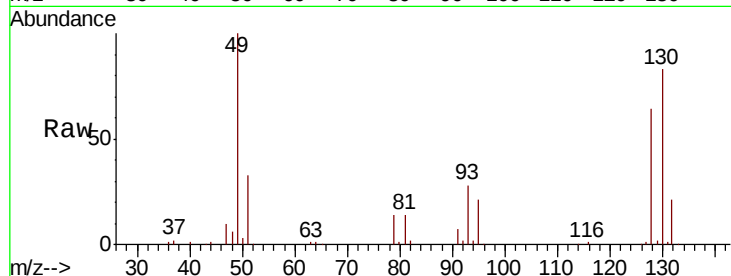
Tot Ion:128 Resp: 176057

Ion Ratio Lower Upper

128 100

49 157.3 0.0 431.8

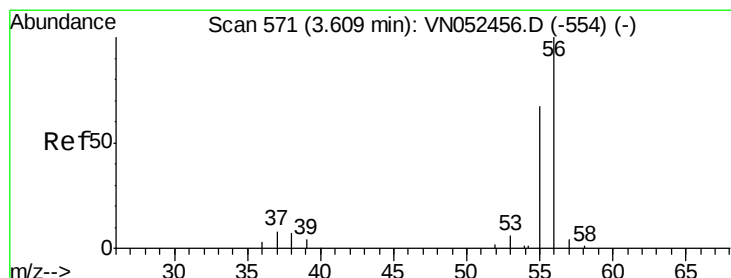
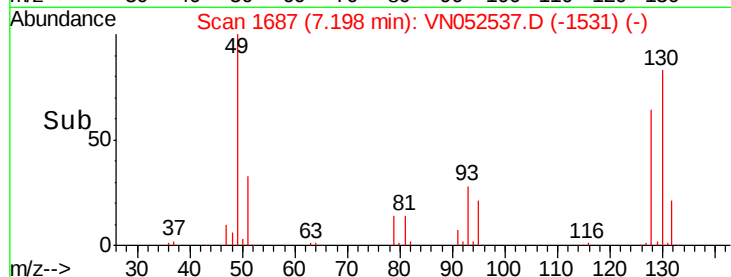
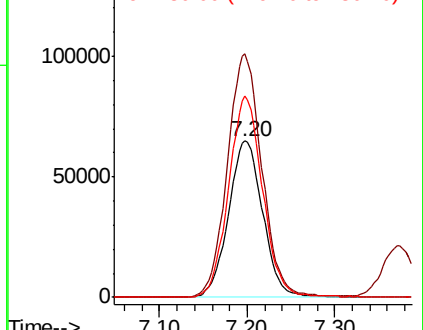
130 128.2 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.368 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052537.D

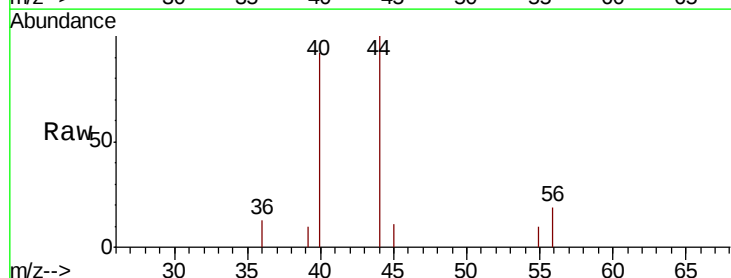
Acq: 28 Nov 2018 23:54

Tgt Ion: 56 Resp: 363

Ion Ratio Lower Upper

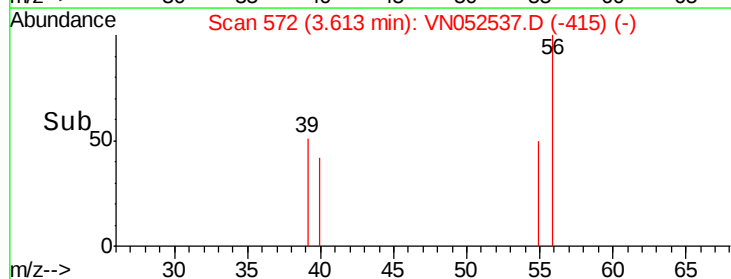
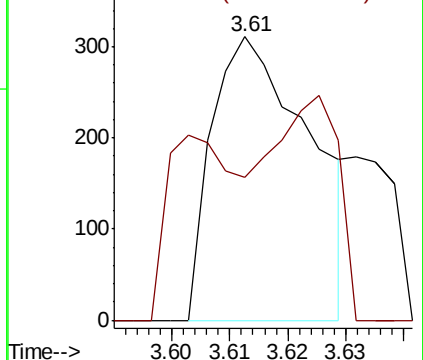
56 100

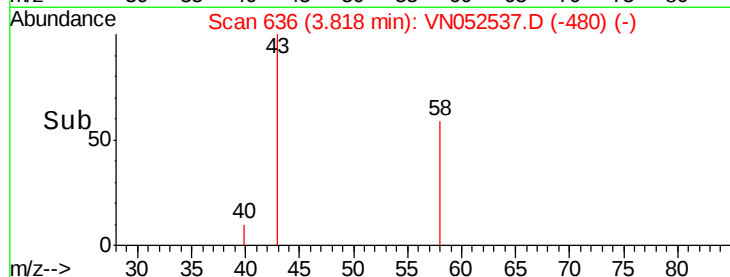
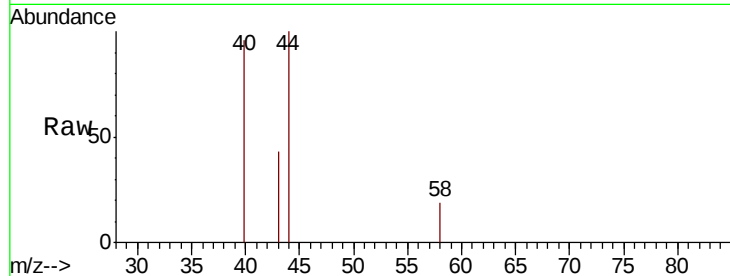
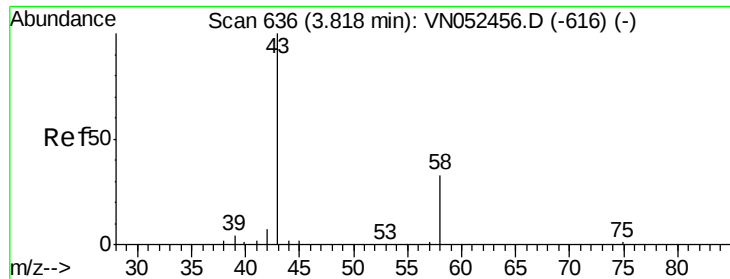
55 47.9 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 0.237 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052537.D

Acq: 28 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampled :

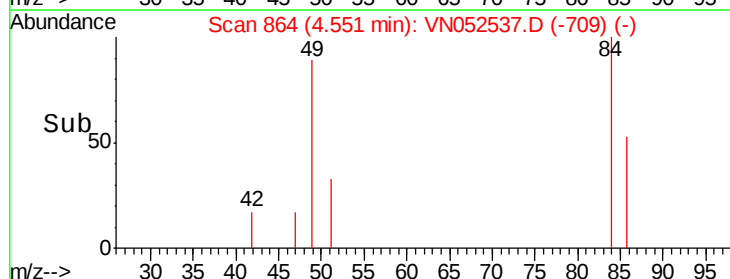
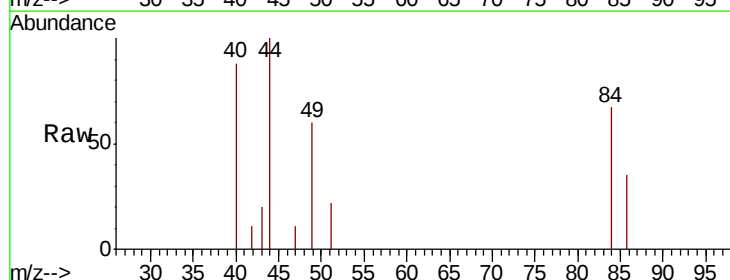
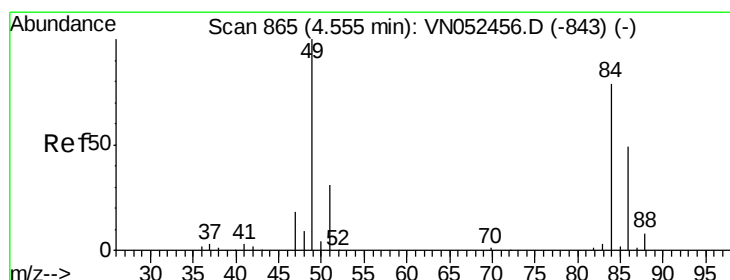
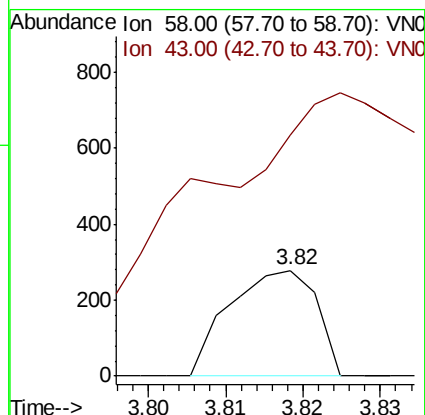
14B-2DL

Tot Ion: 58 Resp: 219

Ion Ratio Lower Upper

58 100

43 42.1 243.6 365.4#



#18

Methylene Chloride

Concen: 0.209 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN052537.D

Acq: 28 Nov 2018 23:54

Tgt Ion: 84 Resp: 2387

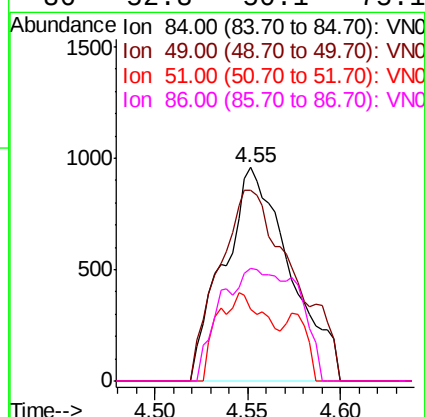
Ion Ratio Lower Upper

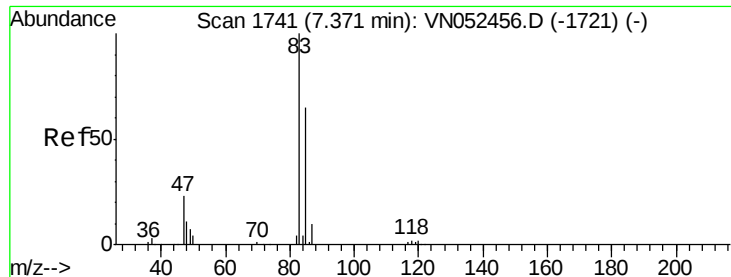
84 100

49 89.3 101.4 152.0#

51 33.5 31.7 47.5

86 52.8 50.1 75.1





#25

Chloroform

Concen: 37.406 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052537.D

Acq: 28 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampleId :

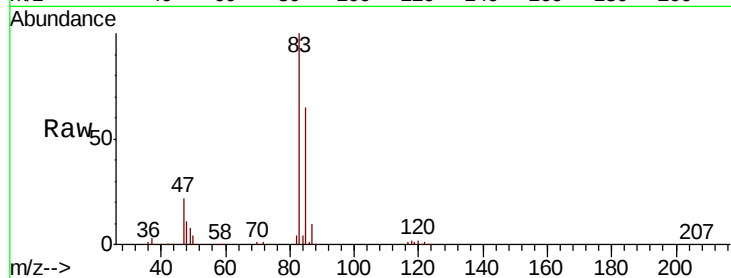
14B-2DL

Tot Ion: 83 Resp: 744205

Ion Ratio Lower Upper

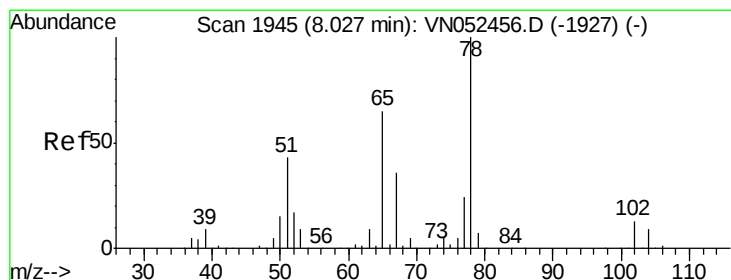
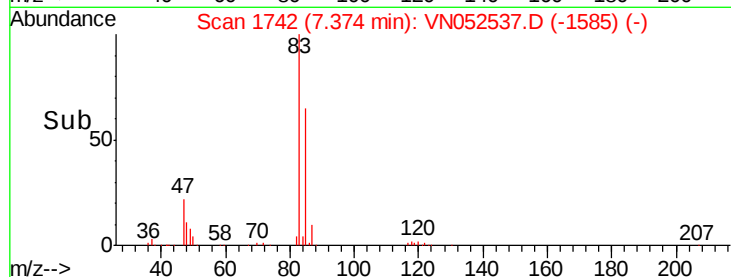
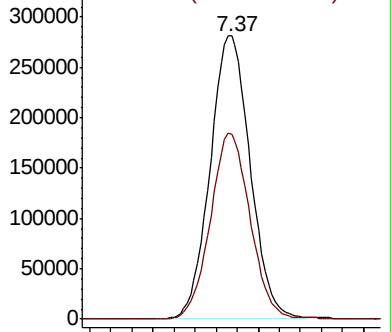
83 100

85 65.2 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052537.D

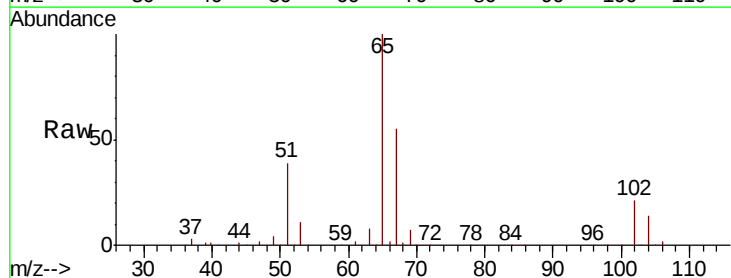
Acq: 28 Nov 2018 23:54

Tgt Ion: 65 Resp: 354486

Ion Ratio Lower Upper

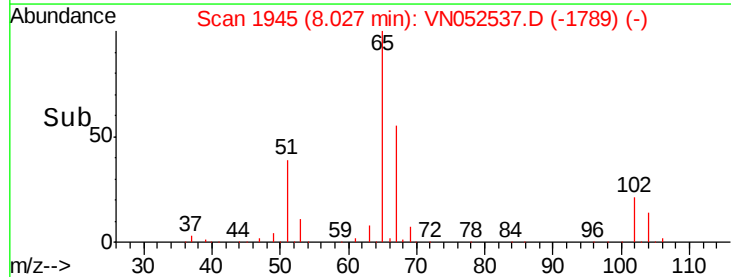
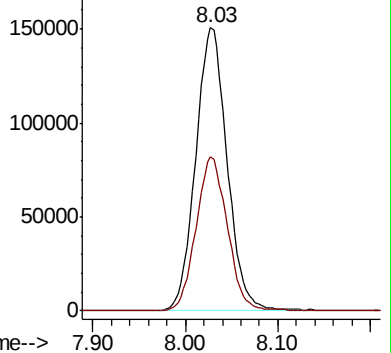
65 100

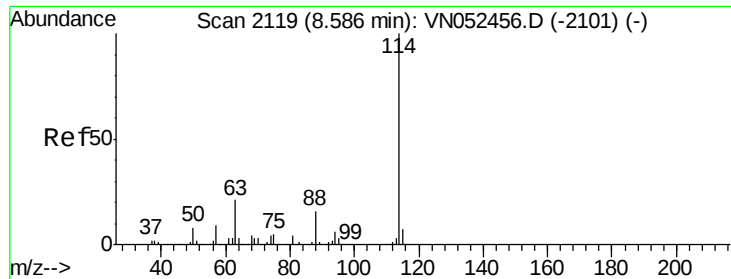
67 54.0 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

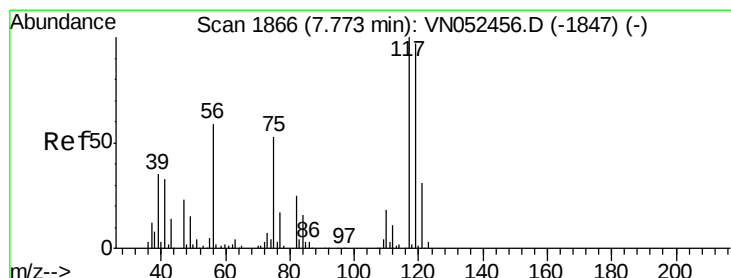
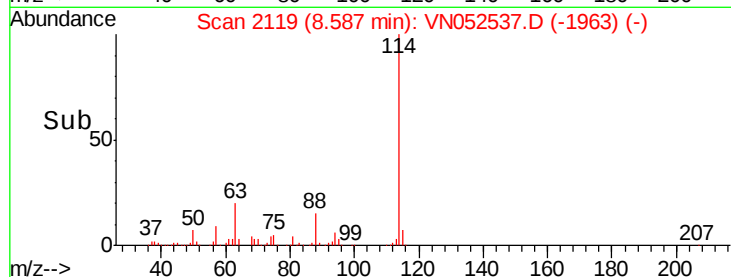
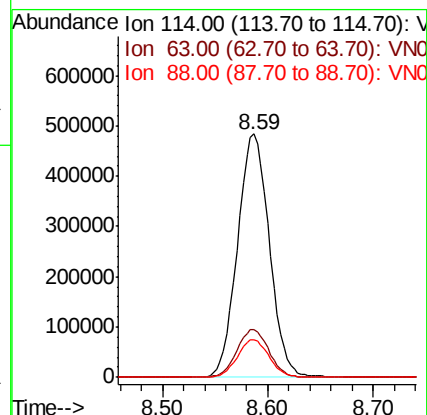
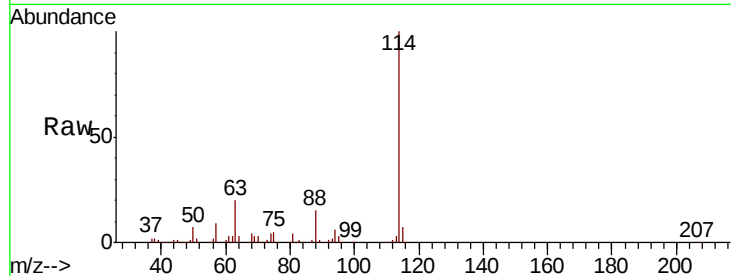




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052537.D
 Acq: 28 Nov 2018 23:54

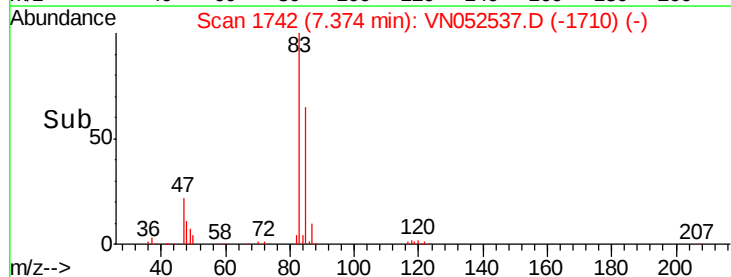
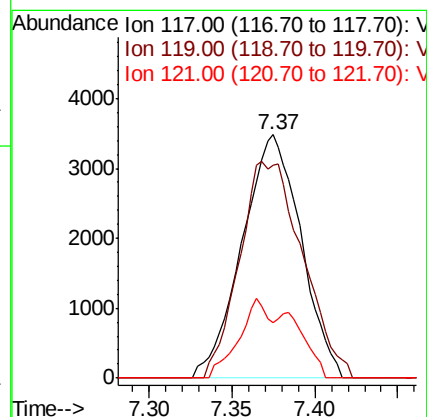
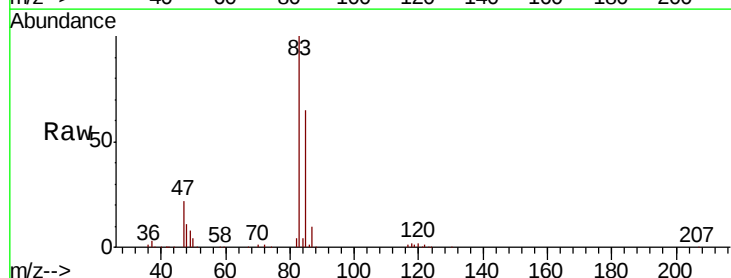
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-2DL

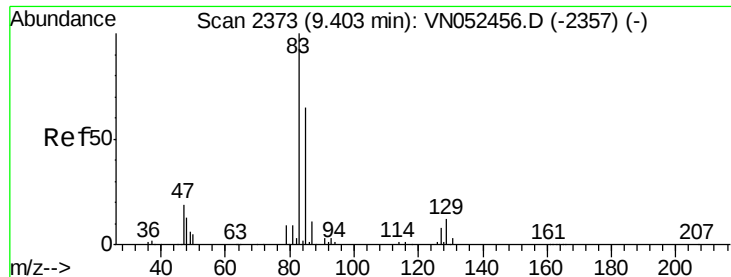
Tot Ion:114 Resp: 1014571
 Ion Ratio Lower Upper
 114 100
 63 19.9 16.9 25.3
 88 15.3 12.8 19.2



#33
 Carbon Tetrachloride
 Concen: 0.608 ug/l
 RT: 7.37 min Scan# 1742
 Delta R.T. -0.40 min
 Lab File: VN052537.D
 Acq: 28 Nov 2018 23:54

Tgt Ion:117 Resp: 8572
 Ion Ratio Lower Upper
 117 100
 119 87.2 77.3 115.9
 121 23.0 24.9 37.3#

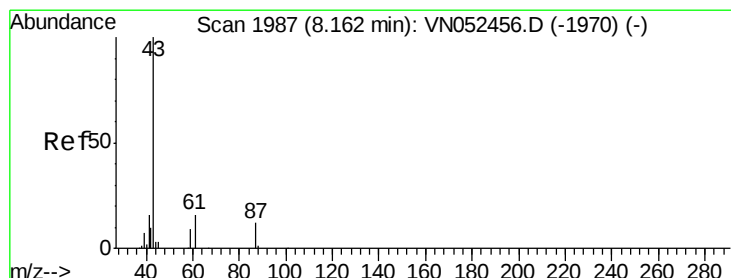
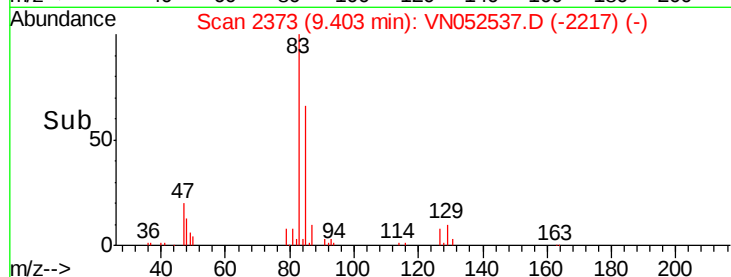
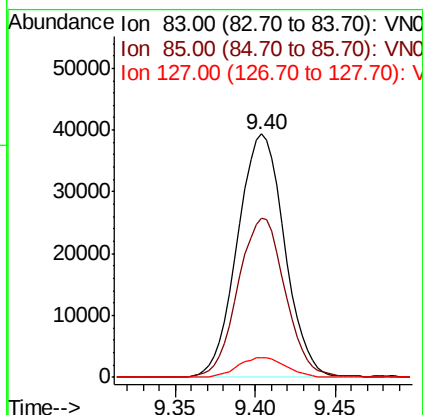
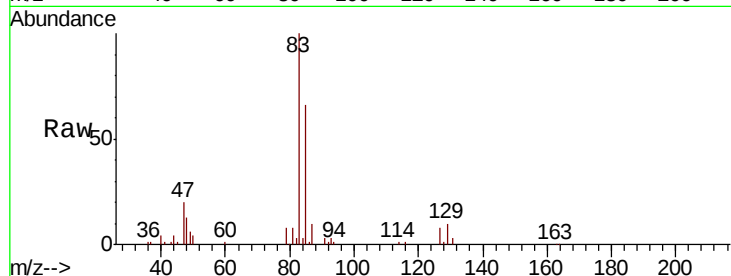




#41
 Bromodichloromethane
 Concen: 5.323 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN052537.D
 Acq: 28 Nov 2018 23:54

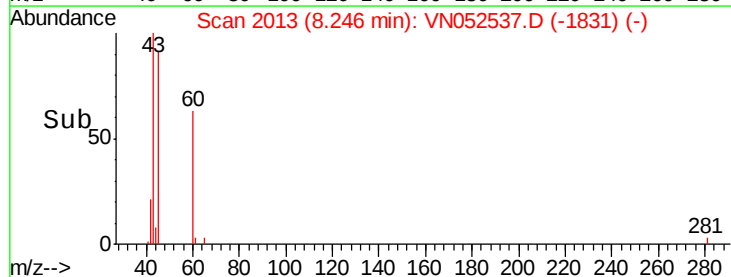
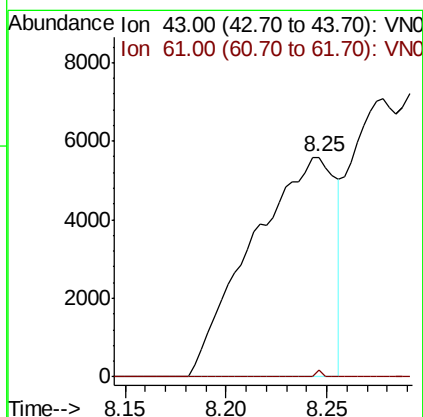
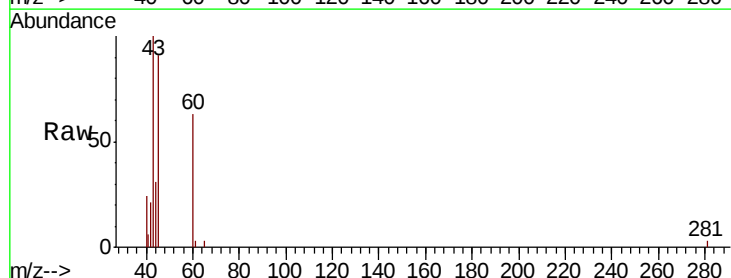
Instrument :
 MSVOA_N
 ClientSampled :
 14B-2DL

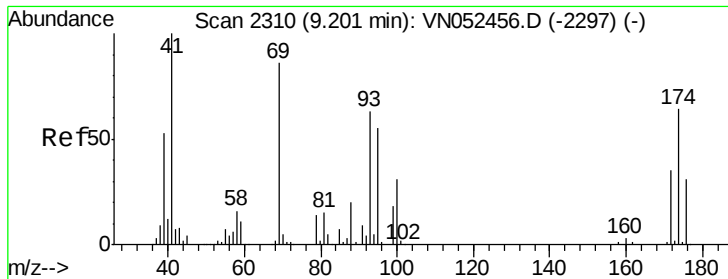
Tot Ion: 83 Resp: 79350
 Ion Ratio Lower Upper
 83 100
 85 65.5 52.4 78.6
 127 8.2 6.6 9.8



#44
 Isopropyl Acetate
 Concen: 1.040 ug/l
 RT: 8.25 min Scan# 2013
 Delta R.T. 0.08 min
 Lab File: VN052537.D
 Acq: 28 Nov 2018 23:54

Tgt Ion: 43 Resp: 16075
 Ion Ratio Lower Upper
 43 100
 61 0.2 16.0 24.0#





#45

1,4-Dioxane

Concen: 0.757 ug/l

RT: 8.72 min Scan# 2160

Delta R.T. -0.48 min

Lab File: VN052537.D

Acq: 28 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampled :

14B-2DL

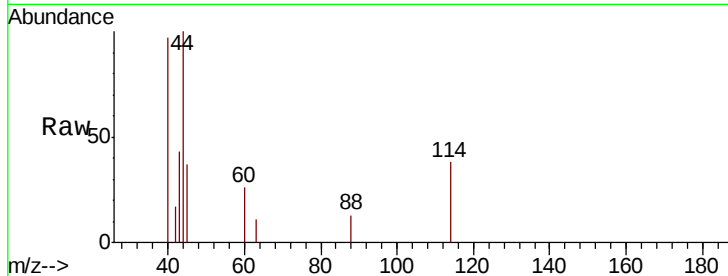
Tot Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 73.4 29.5 44.3#

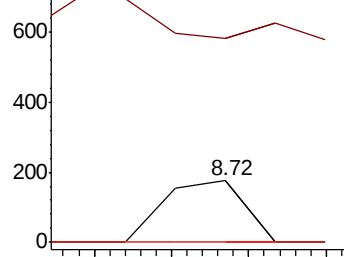
58 0.0 61.5 92.3#



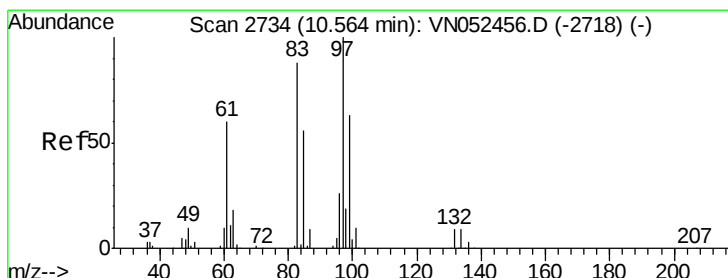
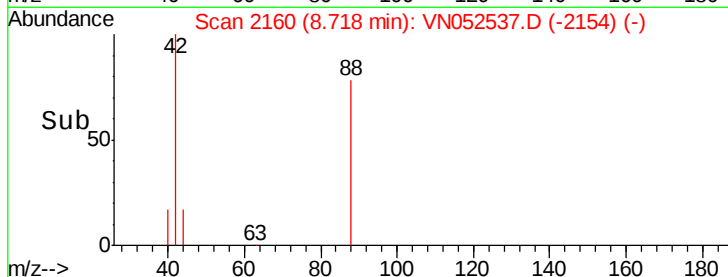
Abundance Ion 88.00 (87.70 to 88.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 58.00 (57.70 to 58.70): VNC



Time-->



#50

1,1,2-Trichloroethane

Concen: 3.610 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN052537.D

Acq: 28 Nov 2018 23:54

Tgt Ion: 97 Resp: 34529

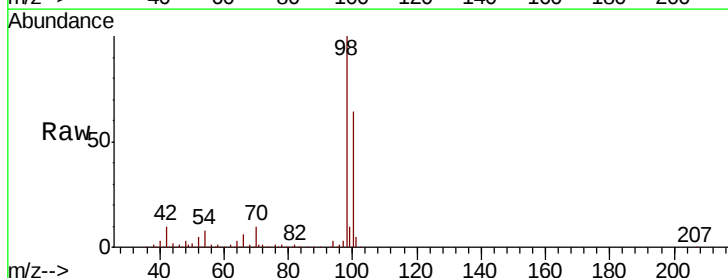
Ion Ratio Lower Upper

97 100

83 2.2 70.4 105.6#

85 0.0 45.0 67.6#

99 296.9 50.2 75.2#

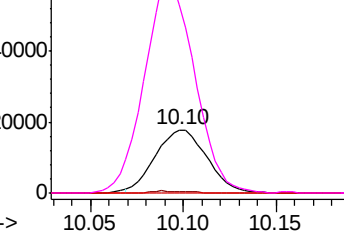


Abundance Ion 97.00 (96.70 to 97.70): VNC

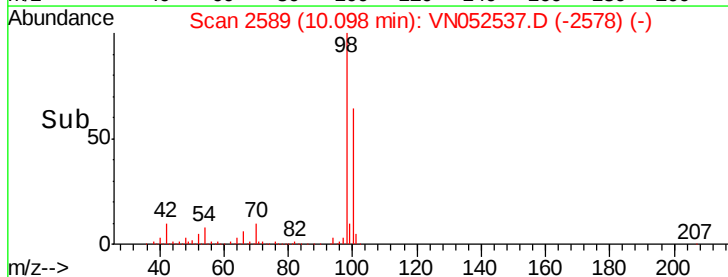
Ion 82.95 (82.65 to 83.65): VNC

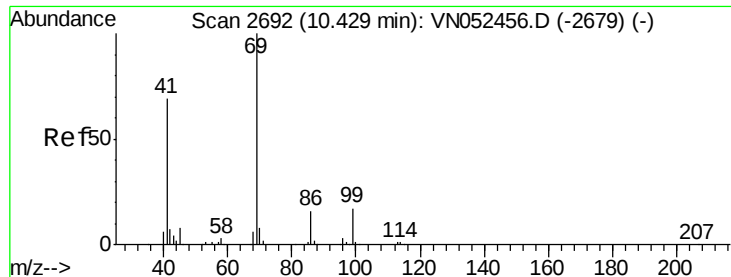
Ion 84.95 (84.65 to 85.65): VNC

Ion 98.95 (98.65 to 99.65): VNC



Time-->





#51

Ethyl methacrylate

Concen: 0.286 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN052537.D

Acq: 28 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampled :

14B-2DL

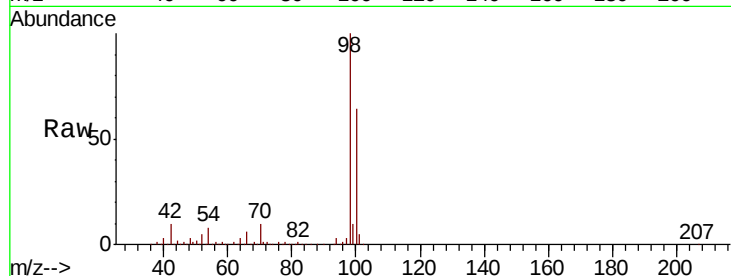
Tot Ion: 69 Resp: 3439

Ion Ratio Lower Upper

69 100

41 62.3 34.4 103.3

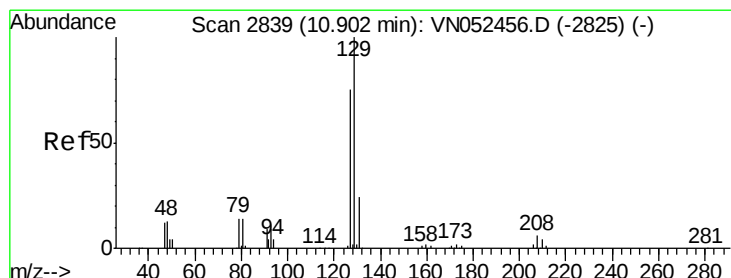
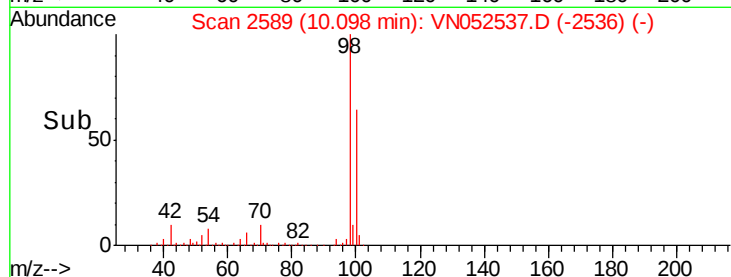
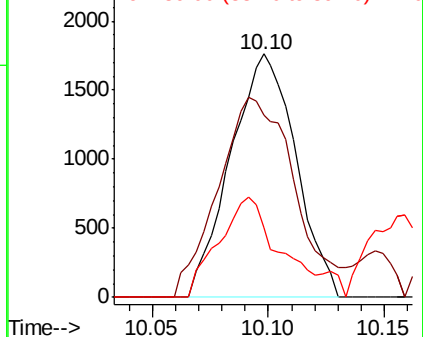
39 28.5 16.4 49.2



Abundance Ion 69.00 (68.70 to 69.70): VN052456.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN052456.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN052456.D (-2679) (-)



#53

Dibromochloromethane

Concen: 0.361 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN052537.D

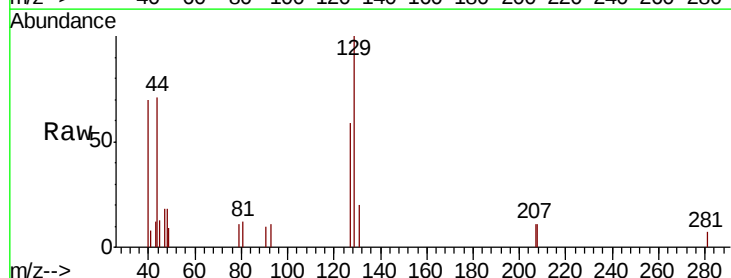
Acq: 28 Nov 2018 23:54

Tgt Ion: 129 Resp: 3802

Ion Ratio Lower Upper

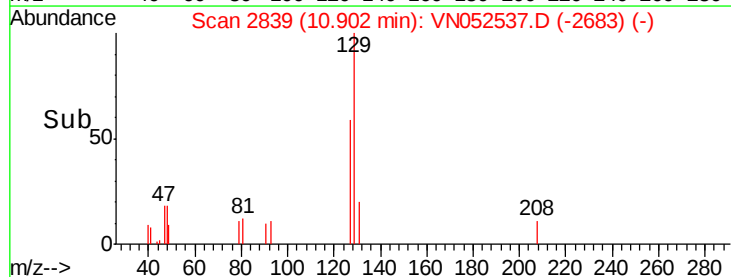
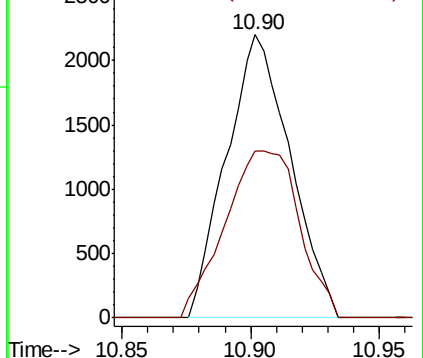
129 100

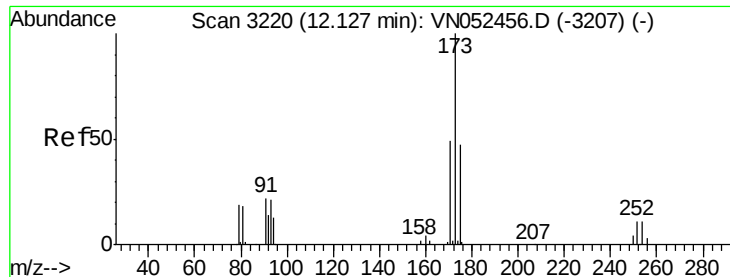
127 68.8 37.6 112.8



Abundance Ion 129.00 (128.70 to 129.70): VN052456.D (-2825) (-)

Ion 127.00 (126.70 to 127.70): VN052456.D (-2825) (-)

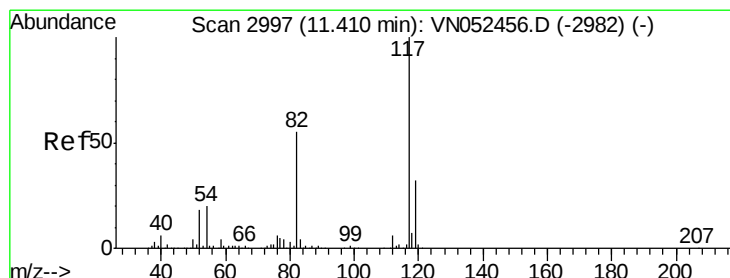
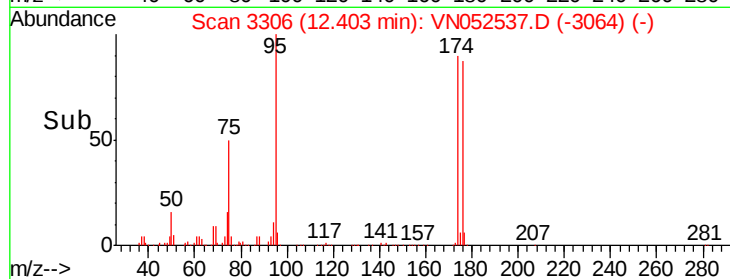
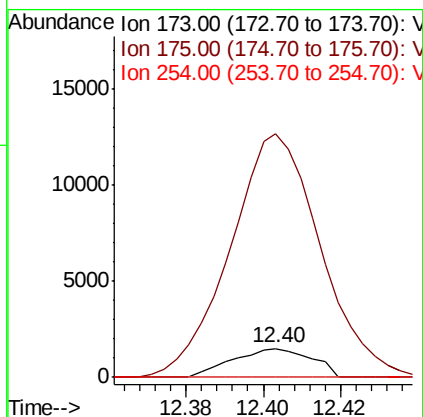
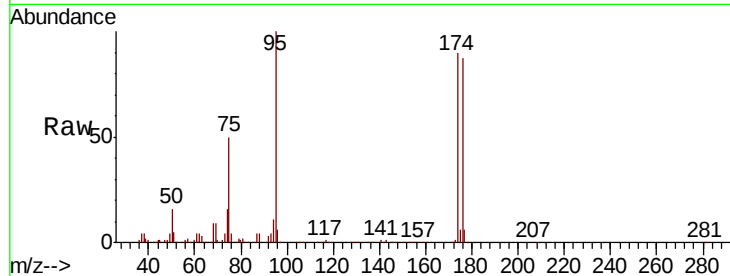




#56
Bromoform
Concen: 0.309 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052537.D
Acq: 28 Nov 2018 23:54

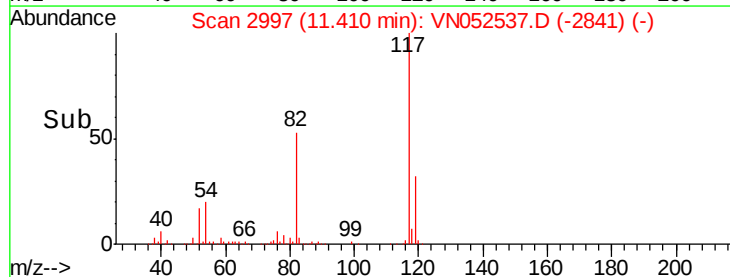
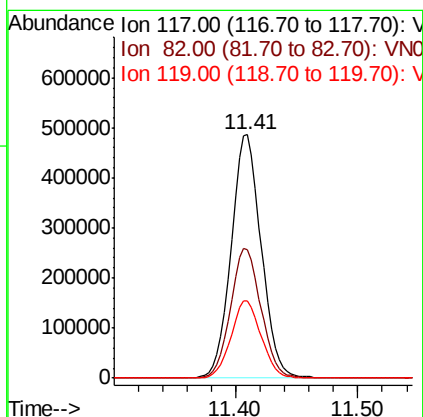
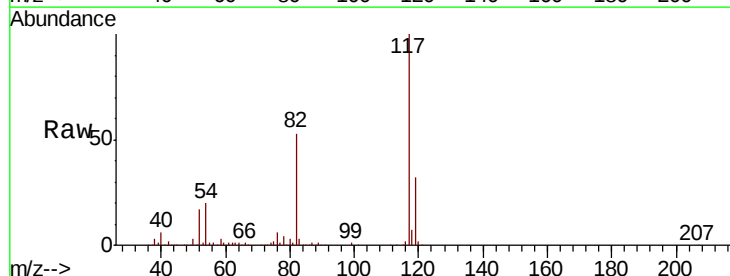
Instrument :
MSVOA_N
ClientSampled :
14B-2DL

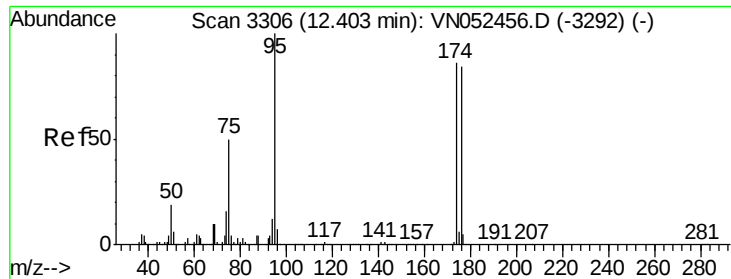
Tot Ion:173 Resp: 2129
Ion Ratio Lower Upper
173 100
175 963.4 38.7 58.1#
254 0.0 8.4 12.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052537.D
Acq: 28 Nov 2018 23:54

Tgt Ion:117 Resp: 832482
Ion Ratio Lower Upper
117 100
82 54.1 44.2 66.2
119 32.1 25.4 38.2

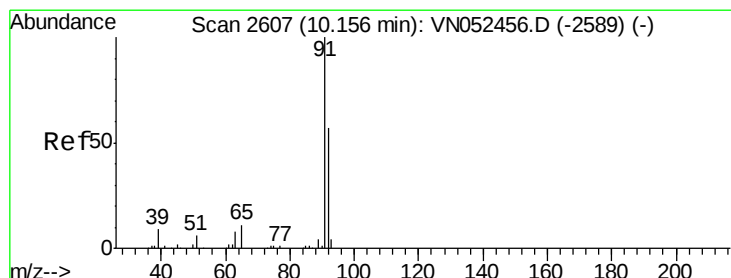
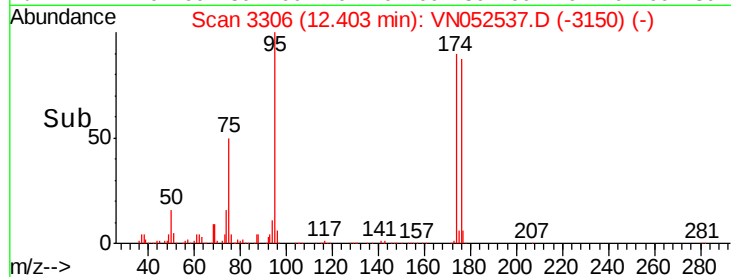
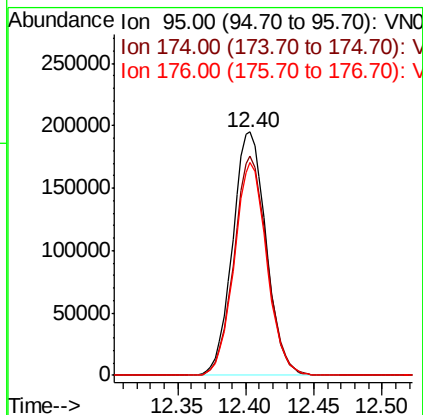
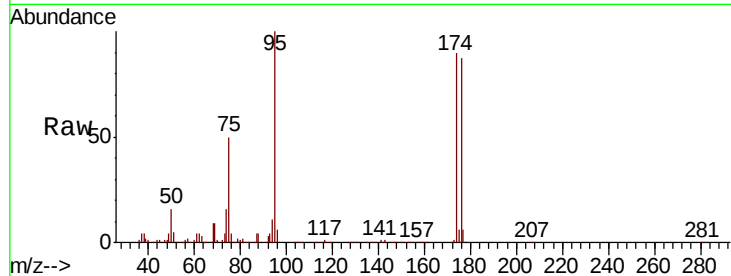




#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052537.D
Acq: 28 Nov 2018 23:54

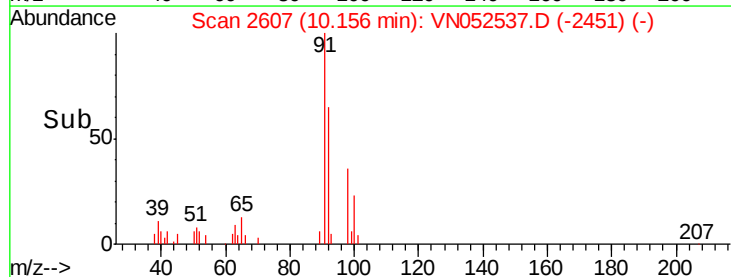
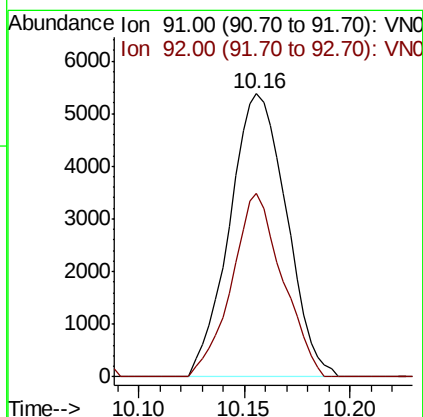
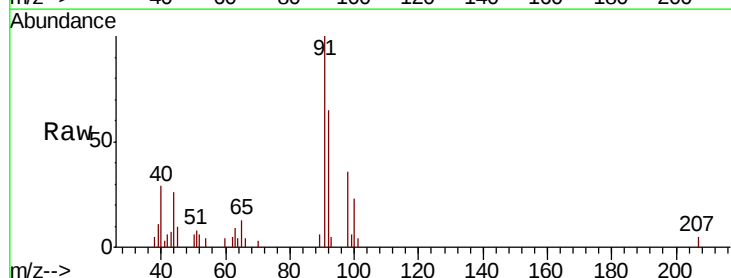
Instrument :
MSVOA_N
ClientSampled :
14B-2DL

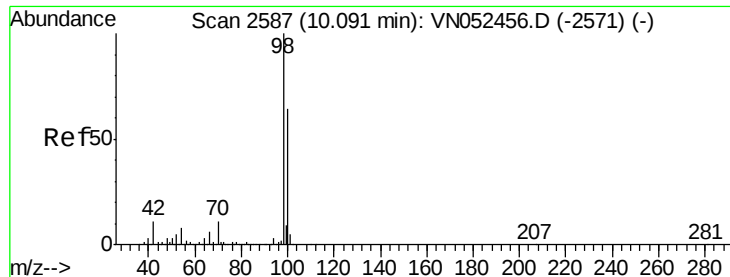
Tot Ion: 95 Resp: 333020
Ion Ratio Lower Upper
95 100
174 88.8 67.9 101.9
176 85.0 66.4 99.6



#62
Toluene
Concen: 0.219 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN052537.D
Acq: 28 Nov 2018 23:54

Tgt Ion: 91 Resp: 10067
Ion Ratio Lower Upper
91 100
92 57.9 45.4 68.2





#63

Toluene-d8

Concen: 0.219 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052537.D

Acq: 28 Nov 2018 23:54

Instrument :

MSVOA_N

ClientSampled :

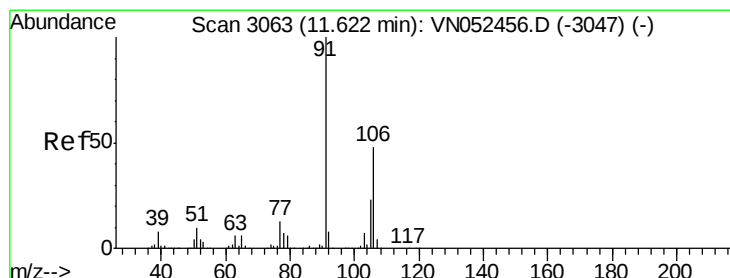
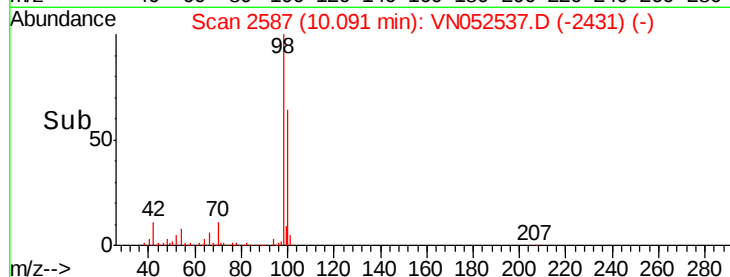
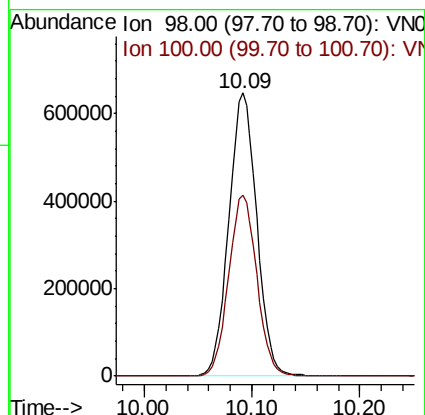
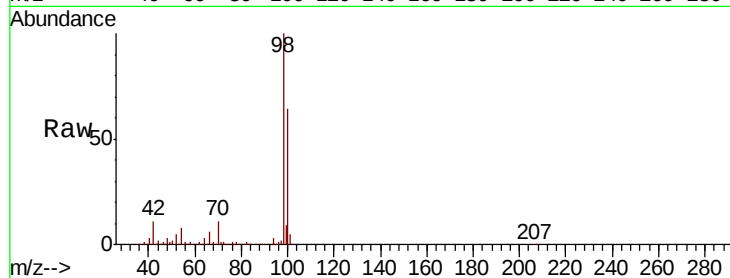
14B-2DL

Tot Ion: 98 Resp: 1171793

Ion Ratio Lower Upper

98 100

100 64.5 51.1 76.7



#67

m/p-Xylenes

Concen: 0.235 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN052537.D

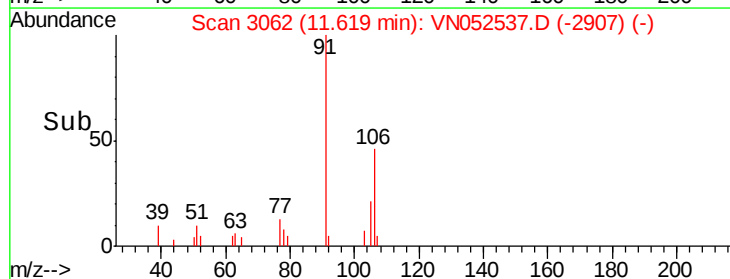
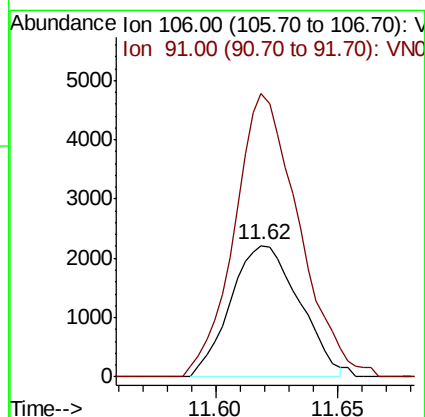
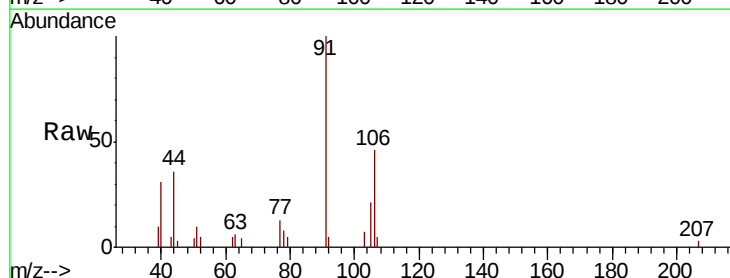
Acq: 28 Nov 2018 23:54

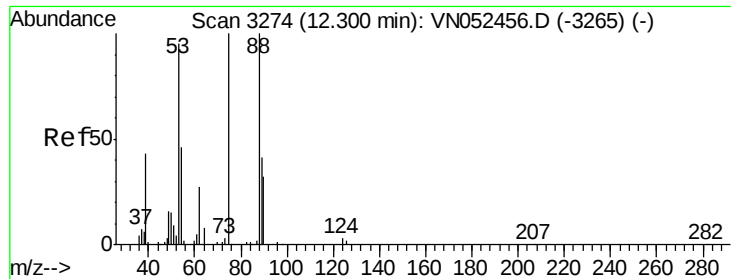
Tgt Ion: 106 Resp: 4330

Ion Ratio Lower Upper

106 100

91 201.5 163.9 245.9





#77
t-1,4-Dichloro-2-butene
Concen: 56.702 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN052537.D
Acq: 28 Nov 2018 23:54

Instrument :
MSVOA_N
ClientSampleId :
14B-2DL

Tot Ion: 75 Resp: 159169
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.6#
89 0.0 21.7 65.1#

