

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112818\
 Data File : VN052536.D
 Acq On : 28 Nov 2018 23:27
 Operator : MD\SY
 Sample : J6067-01DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 34 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1DL

Quant Time: Nov 29 02:35:42 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	182918	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	1049564	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	867430	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	369376	29.64	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.80%
60) 4-Bromofluorobenzene	12.40	95	352079	26.55	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.50%
63) Toluene-d8	10.09	98	1218013	30.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.93%

Target Compounds

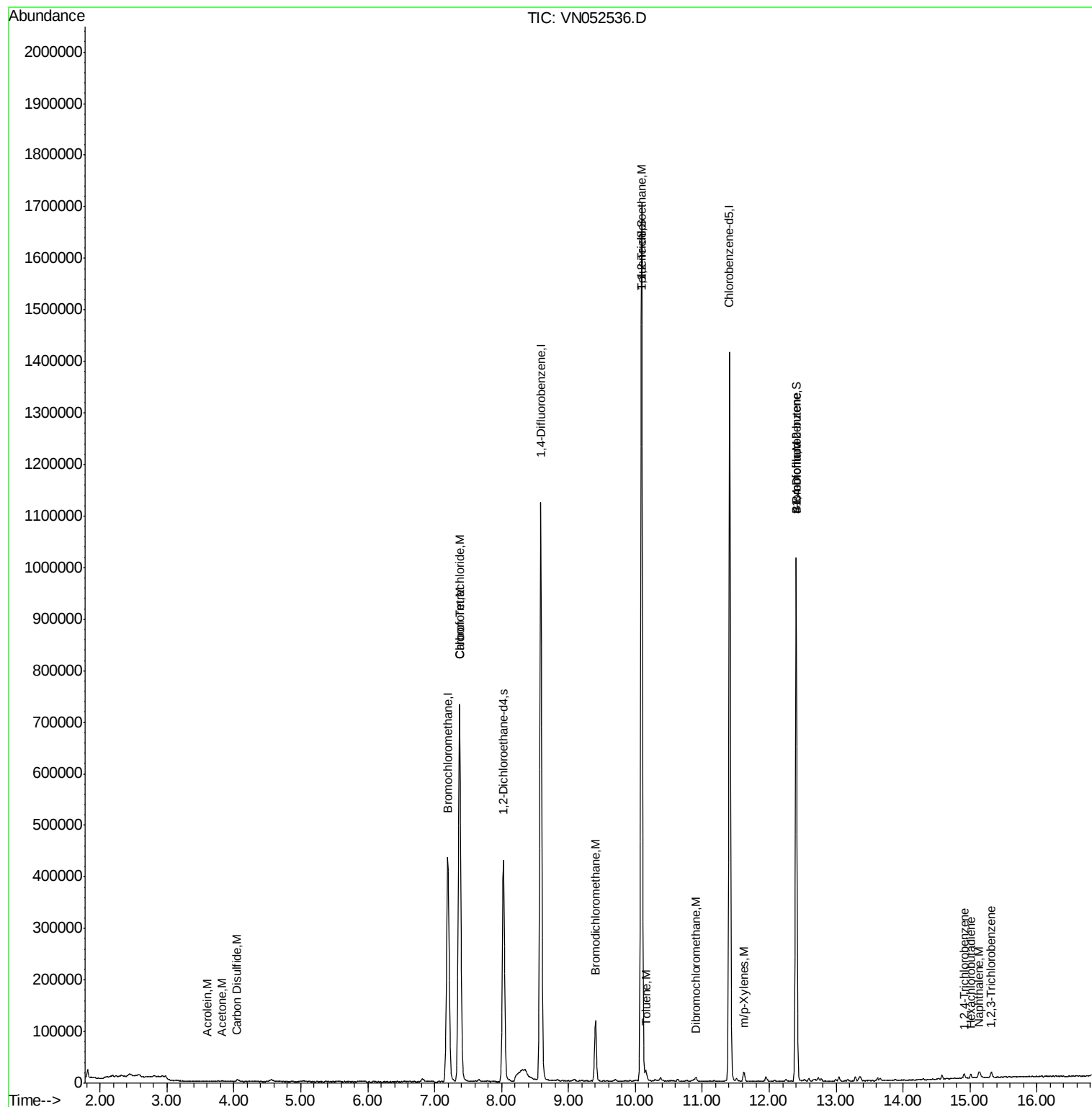
					Ovalue
13) Acrolein	3.60	56	271	0.265 ug/l	99
15) Acetone	3.82	58	224	0.233 ug/l #	1
16) Carbon Disulfide	4.05	76	6997	0.215 ug/l #	90
25) Chloroform	7.37	83	785922	38.021 ug/l	99
33) Carbon Tetrachloride	7.37	117	9227	0.632 ug/l	92
41) Bromodichloromethane	9.40	83	83441	5.410 ug/l	99
50) 1,1,2-Trichloroethane	10.10	97	36514	3.690 ug/l #	1
53) Dibromochloromethane	10.90	129	4455	0.409 ug/l	87
56) Bromoform	12.40	173	2254	0.317 ug/l #	1
62) Toluene	10.16	91	12744	0.267 ug/l	98
67) m/p-Xylenes	11.63	106	6025	0.314 ug/l	100
77) t-1,4-Dichloro-2-butene	12.40	75	167590	57.297 ug/l #	11
89) 1,2,4-Trichlorobenzene	14.91	180	3283	0.332 ug/l #	95
90) Hexachlorobutadiene	15.01	225	1782	0.275 ug/l	95
91) Naphthalene	15.13	128	10754	0.539 ug/l #	93
92) 1,2,3-Trichlorobenzene	15.31	180	4430	0.486 ug/l	92

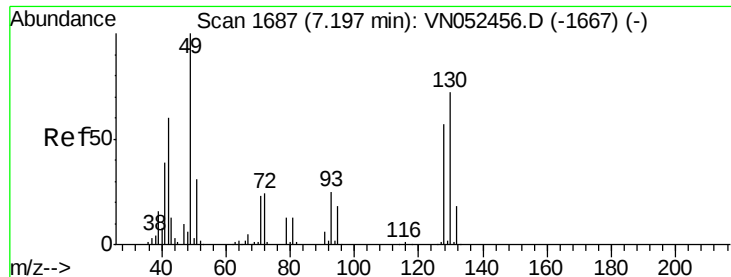
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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: VN052536.D

Acq: 28 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampled :

14B-1DL

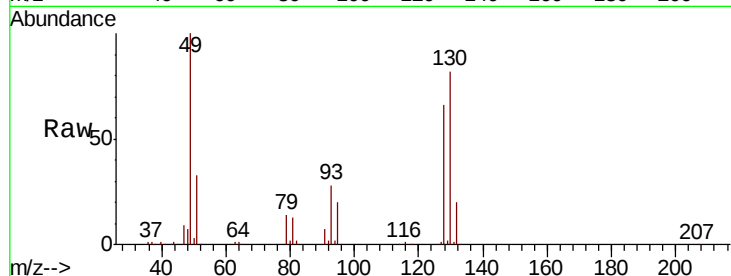
Tot Ion:128 Resp: 182918

Ion Ratio Lower Upper

128 100

49 156.9 0.0 431.8

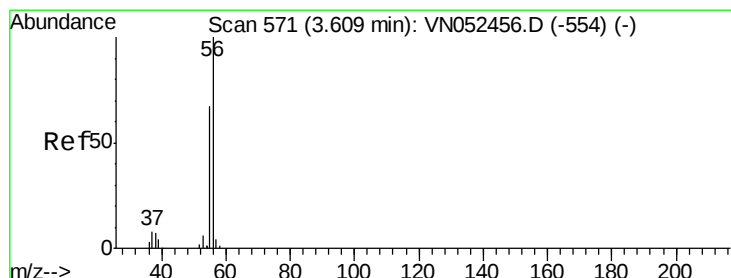
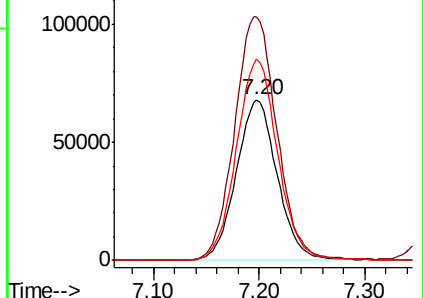
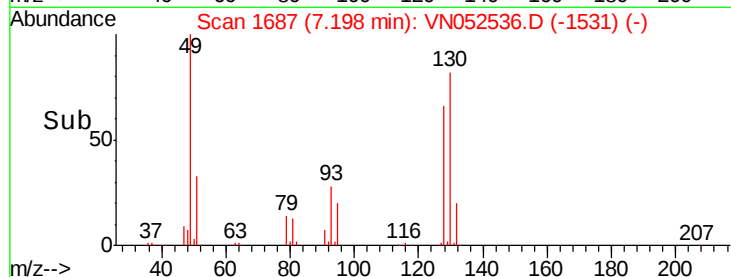
130 127.0 0.0 317.0



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: 0.265 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052536.D

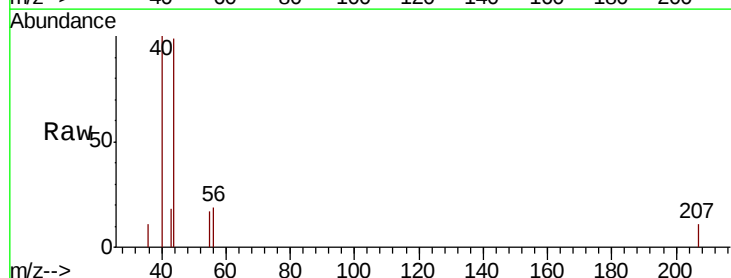
Acq: 28 Nov 2018 23:27

Tgt Ion: 56 Resp: 271

Ion Ratio Lower Upper

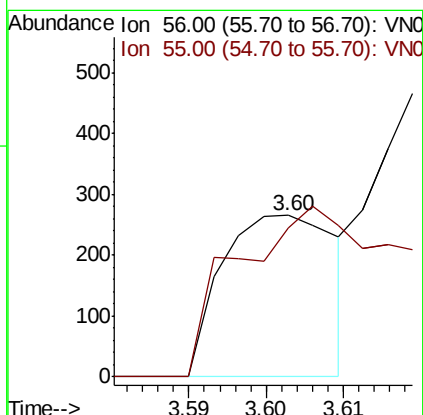
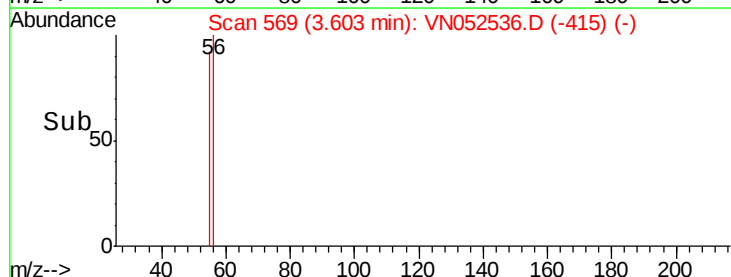
56 100

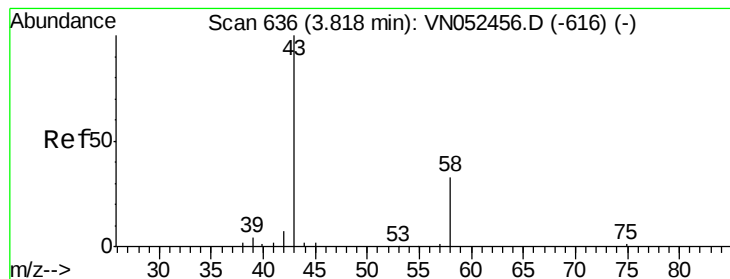
55 70.1 56.7 85.1



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acetone

Concen: 0.233 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052536.D

Acq: 28 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampled :

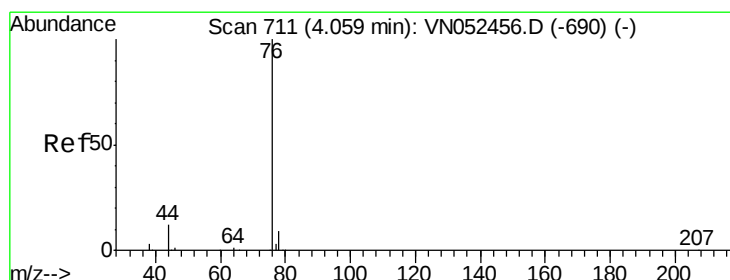
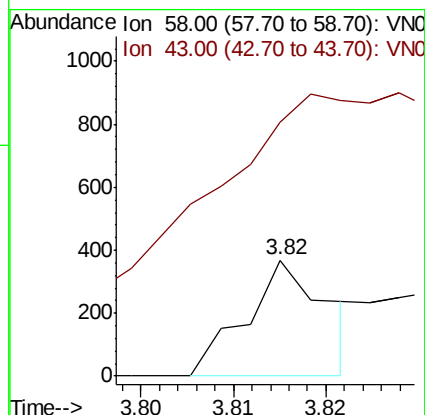
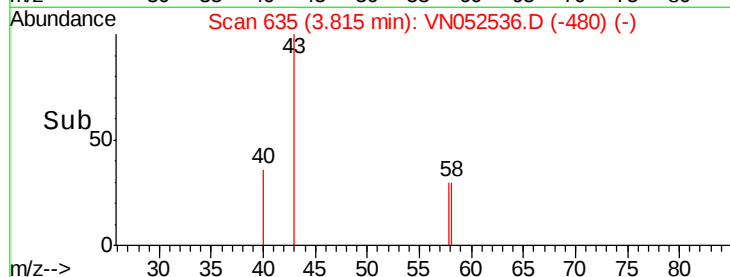
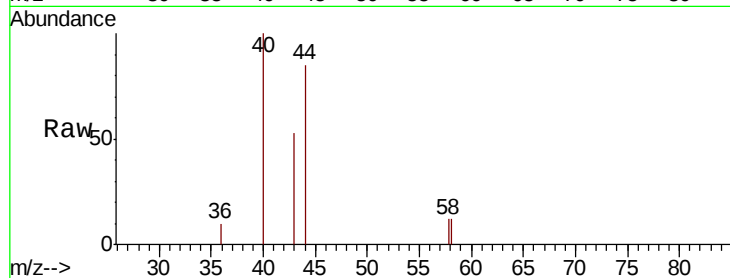
14B-1DL

Tot Ion: 58 Resp: 224

Ion Ratio Lower Upper

58 100

43 70.5 243.6 365.4#



#16

Carbon Disulfide

Concen: 0.215 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.01 min

Lab File: VN052536.D

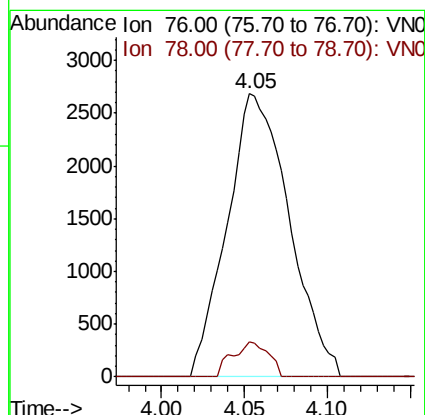
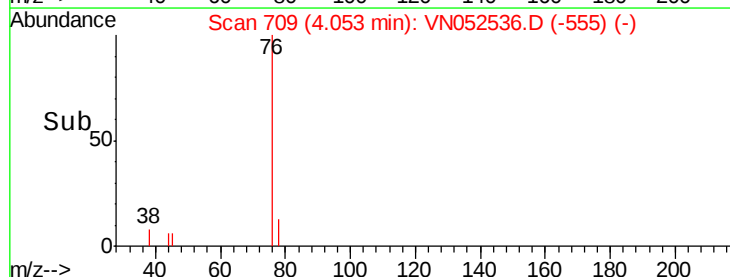
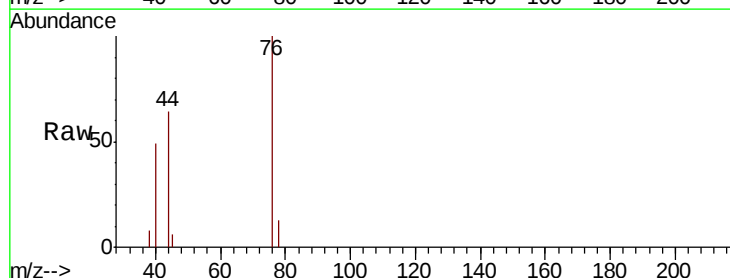
Acq: 28 Nov 2018 23:27

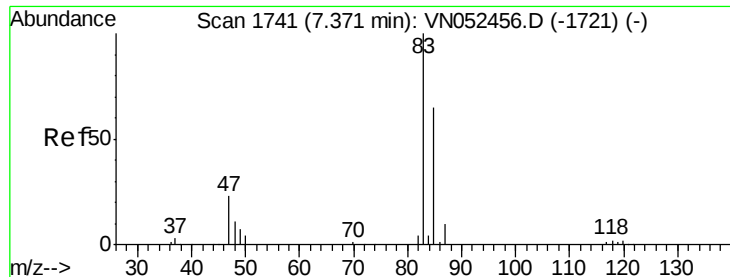
Tgt Ion: 76 Resp: 6997

Ion Ratio Lower Upper

76 100

78 12.6 7.3 10.9#

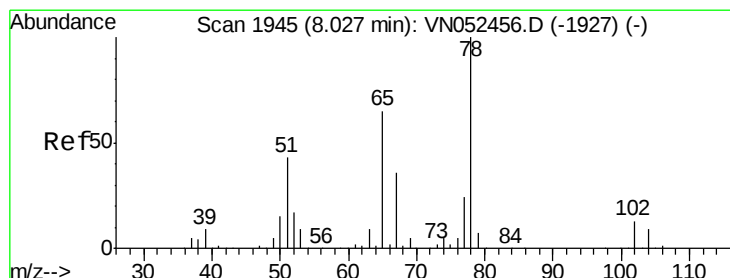
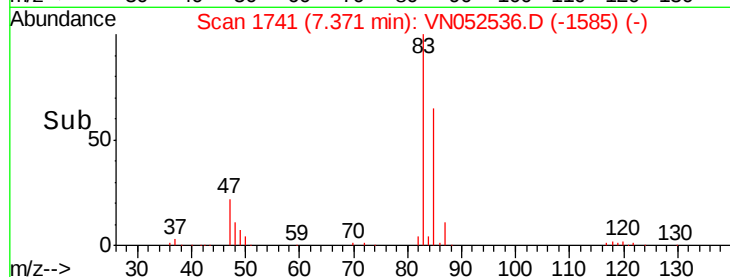
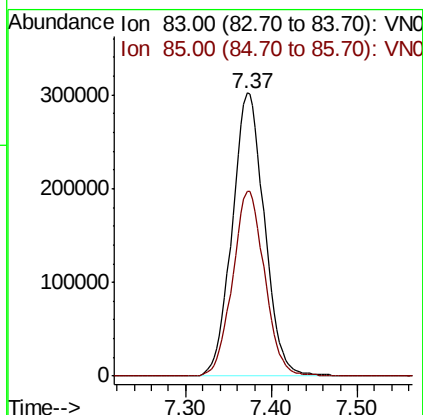
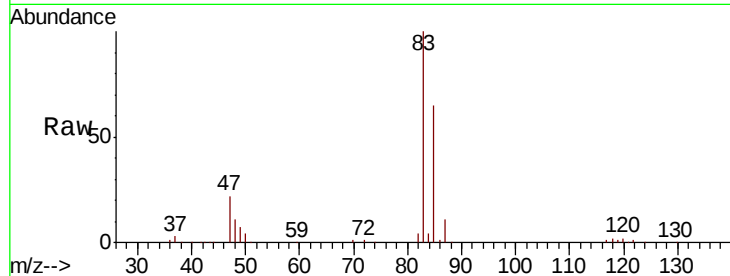




#25
Chloroform
Concen: 38.021 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN052536.D
Acq: 28 Nov 2018 23:27

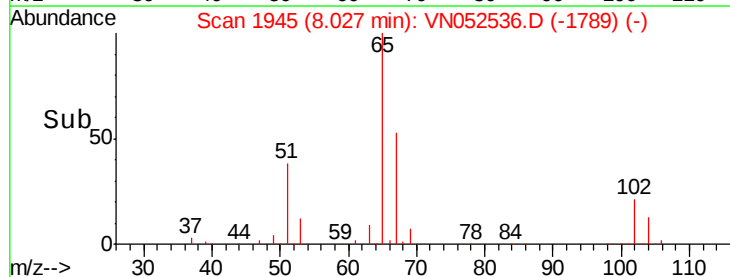
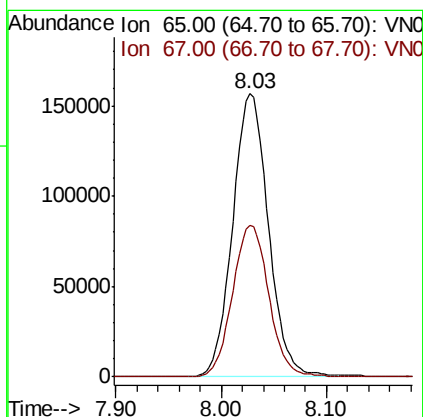
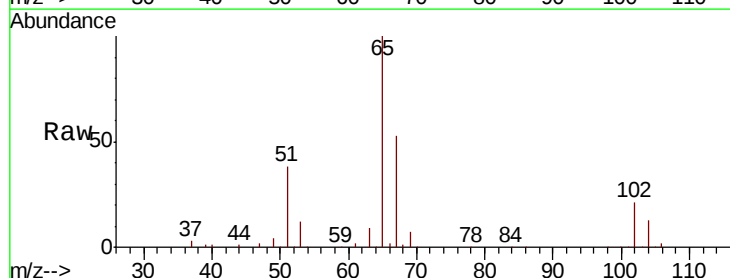
Instrument :
MSVOA_N
ClientSampleId :
14B-1DL

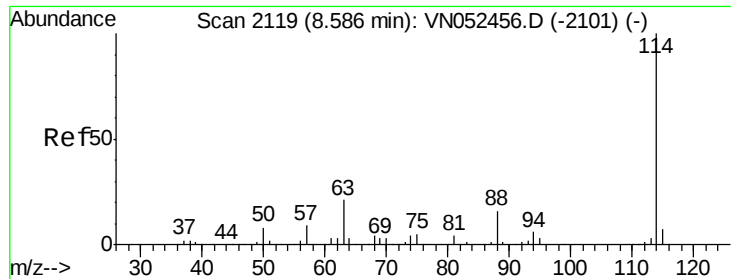
Tot Ion: 83 Resp: 785922
Ion Ratio Lower Upper
83 100
85 65.2 51.7 77.5



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052536.D
Acq: 28 Nov 2018 23:27

Tgt Ion: 65 Resp: 369376
Ion Ratio Lower Upper
65 100
67 54.3 44.6 66.8

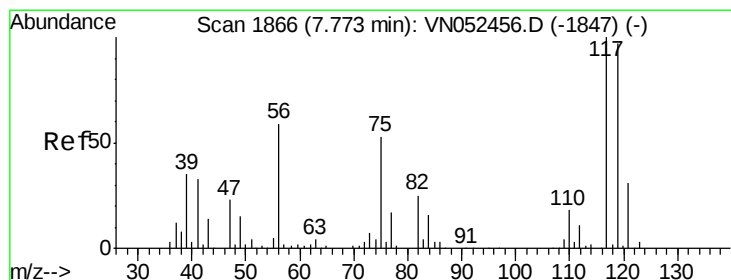
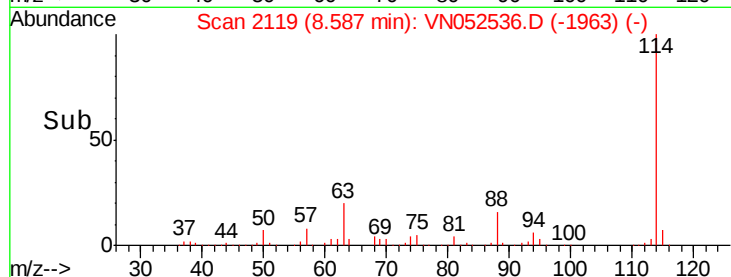
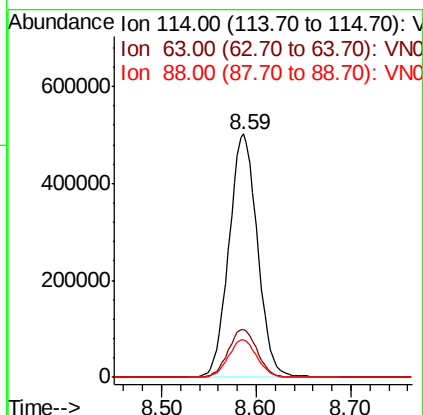
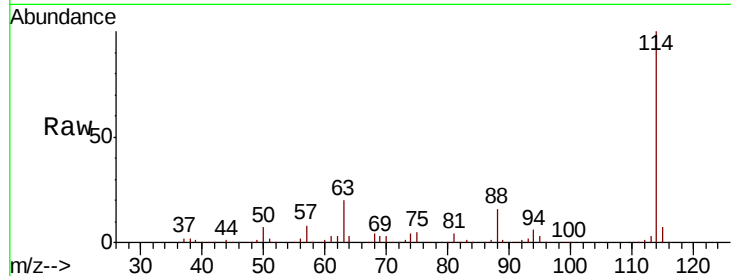




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052536.D
 Acq: 28 Nov 2018 23:27

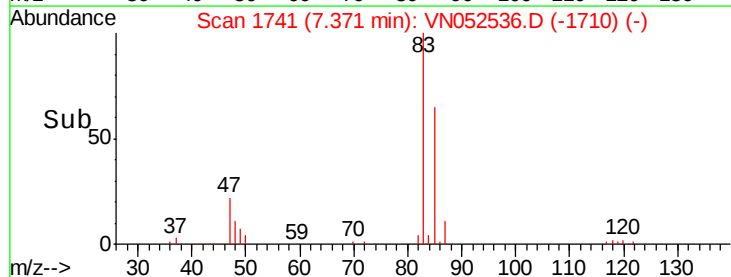
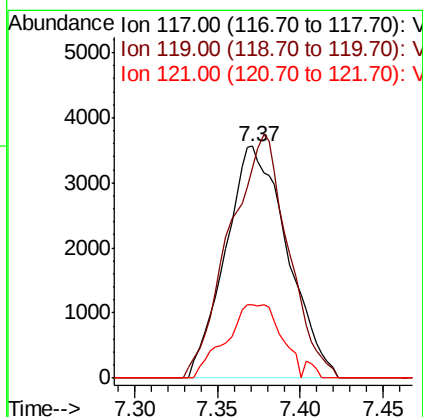
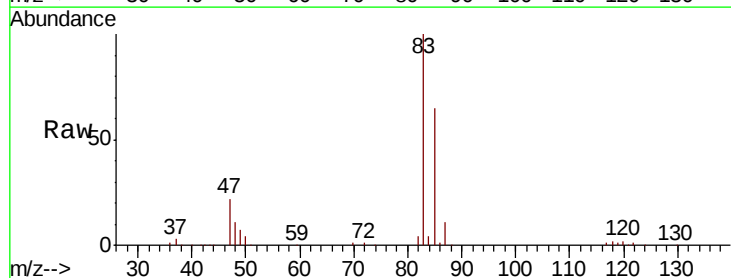
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-1DL

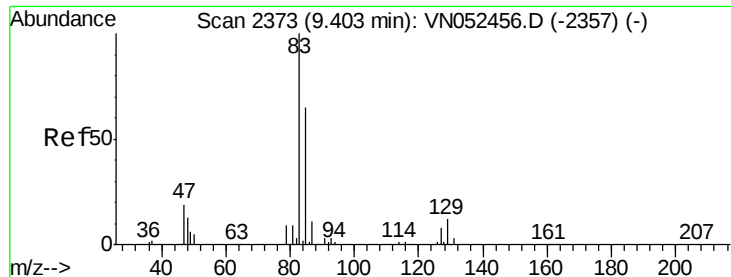
Tot Ion:114 Resp: 1049564
 Ion Ratio Lower Upper
 114 100
 63 20.1 16.9 25.3
 88 15.6 12.8 19.2



#33
 Carbon Tetrachloride
 Concen: 0.632 ug/l
 RT: 7.37 min Scan# 1741
 Delta R.T. -0.40 min
 Lab File: VN052536.D
 Acq: 28 Nov 2018 23:27

Tgt Ion:117 Resp: 9227
 Ion Ratio Lower Upper
 117 100
 119 86.3 77.3 115.9
 121 31.7 24.9 37.3





#41

Bromodichloromethane

Concen: 5.410 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN052536.D

Acq: 28 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampled :

14B-1DL

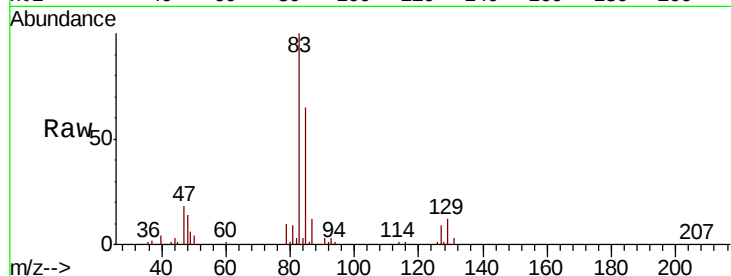
Tot Ion: 83 Resp: 83441

Ion Ratio Lower Upper

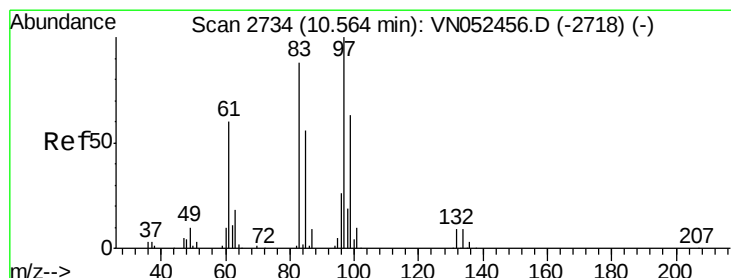
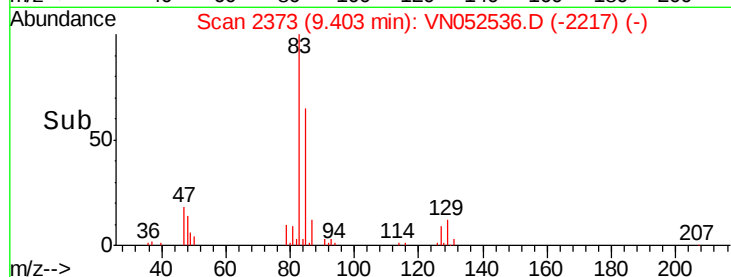
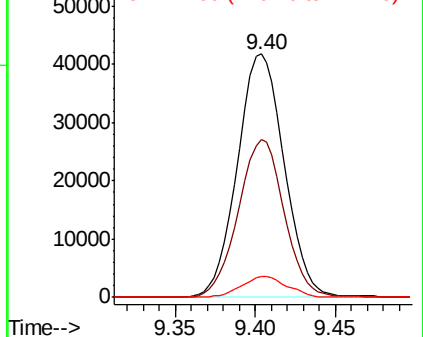
83 100

85 64.9 52.4 78.6

127 8.7 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 85.00 (84.70 to 85.70): VNO
Ion 127.00 (126.70 to 127.70): VNO



#50

1,1,2-Trichloroethane

Concen: 3.690 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN052536.D

Acq: 28 Nov 2018 23:27

Tgt Ion: 97 Resp: 36514

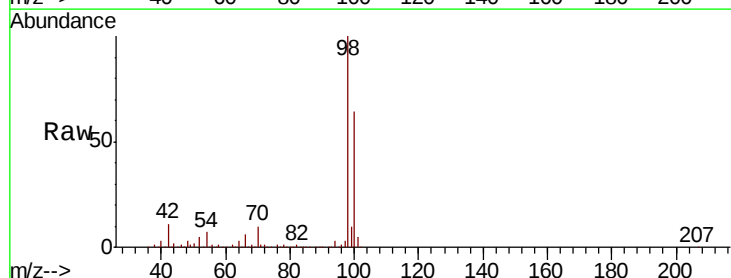
Ion Ratio Lower Upper

97 100

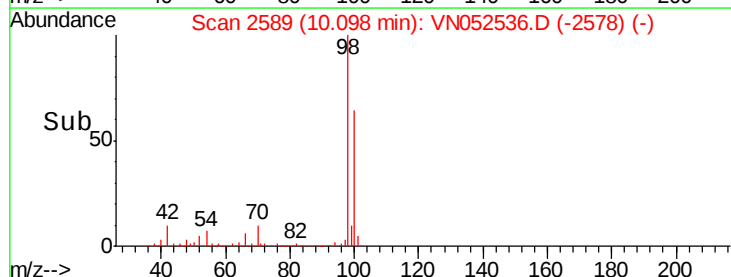
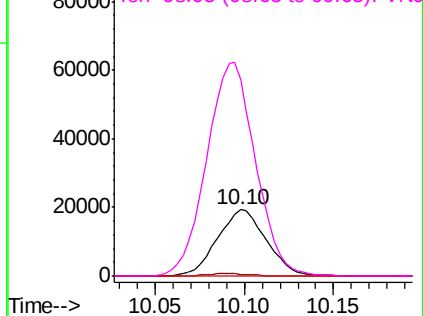
83 2.7 70.4 105.6#

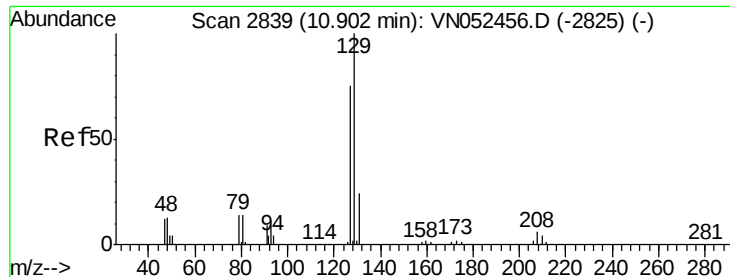
85 0.9 45.0 67.6#

99 296.0 50.2 75.2#



Abundance Ion 97.00 (96.70 to 97.70): VNO
Ion 82.95 (82.65 to 83.65): VNO
Ion 84.95 (84.65 to 85.65): VNO
Ion 98.95 (98.65 to 99.65): VNO





#53

Dibromochloromethane

Concen: 0.409 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN052536.D

Acq: 28 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampled :

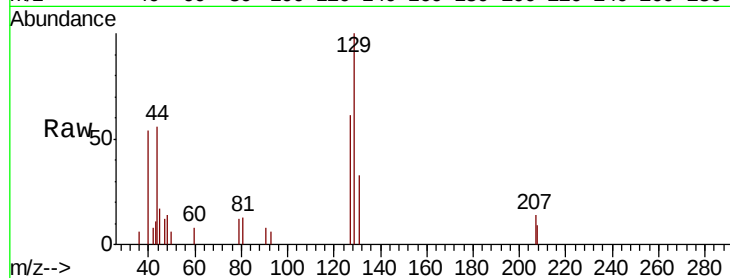
14B-1DL

Tot Ion:129 Resp: 4455

Ion Ratio Lower Upper

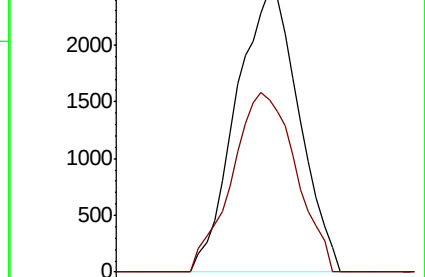
129 100

127 64.4 37.6 112.8

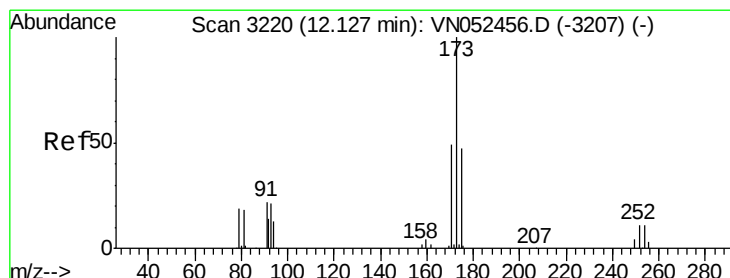
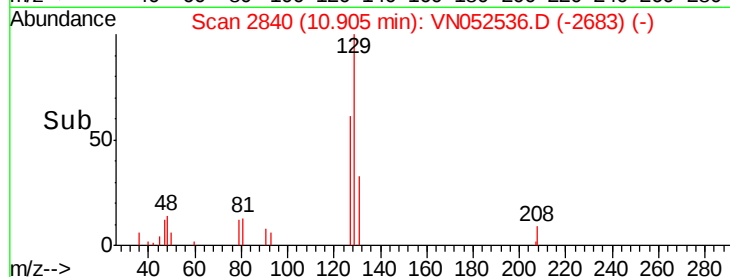


Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time-->



#56

Bromoform

Concen: 0.317 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052536.D

Acq: 28 Nov 2018 23:27

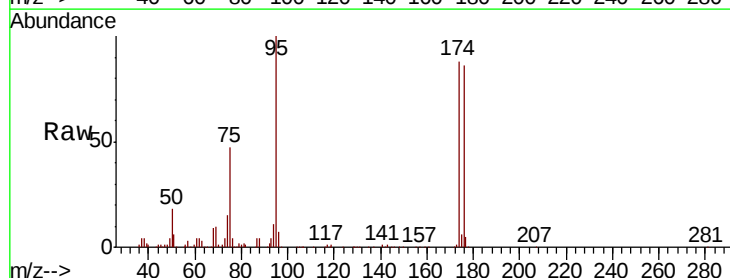
Tgt Ion:173 Resp: 2254

Ion Ratio Lower Upper

173 100

175 957.2 38.7 58.1#

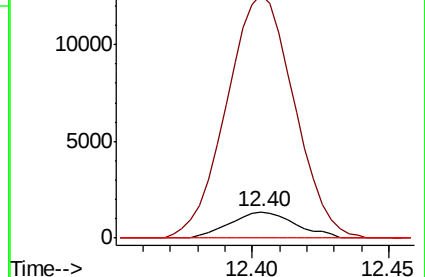
254 0.0 8.4 12.6#



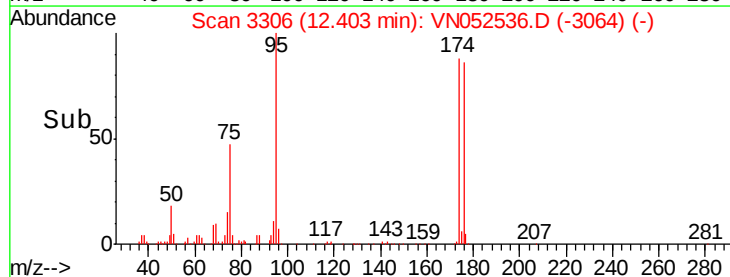
Abundance Ion 173.00 (172.70 to 173.70): V

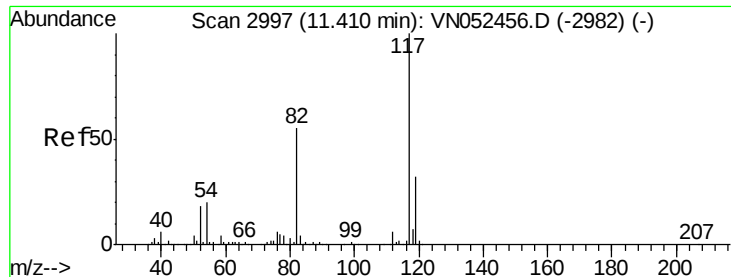
Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



Time-->

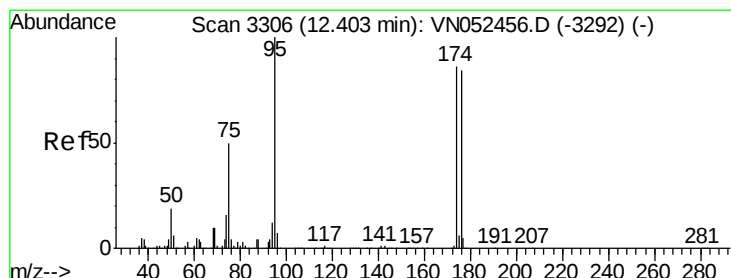
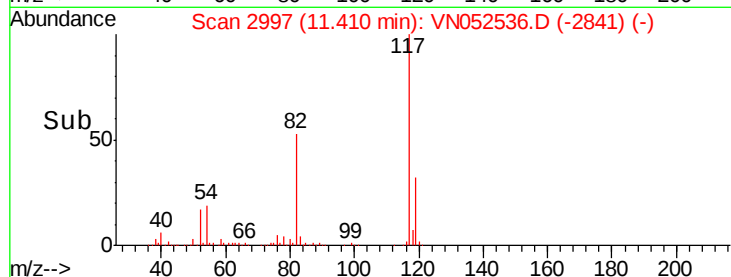
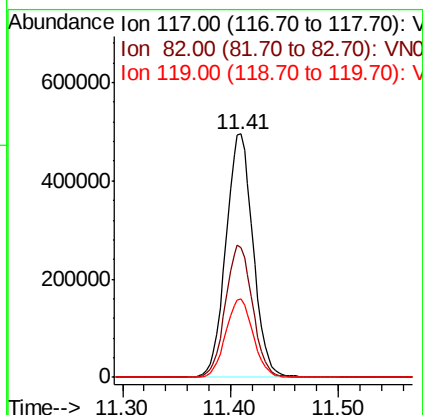
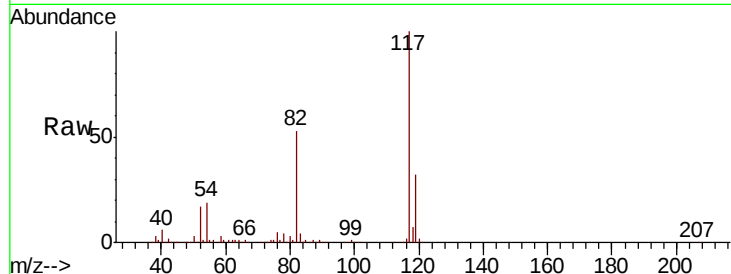




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052536.D
Acq: 28 Nov 2018 23:27

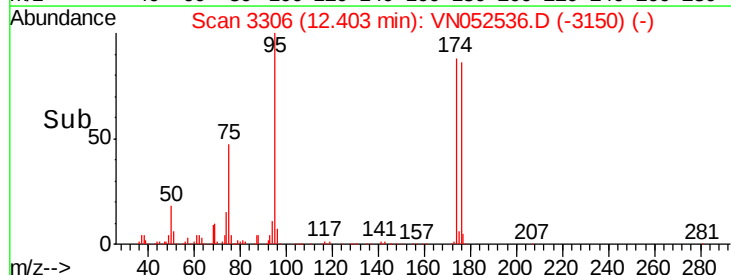
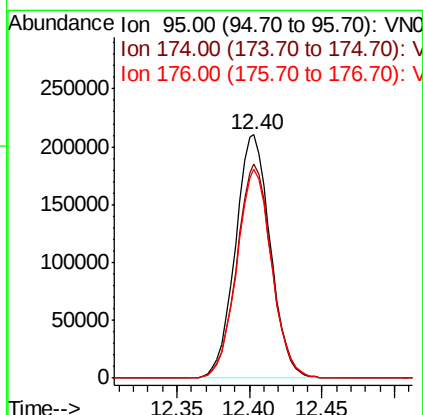
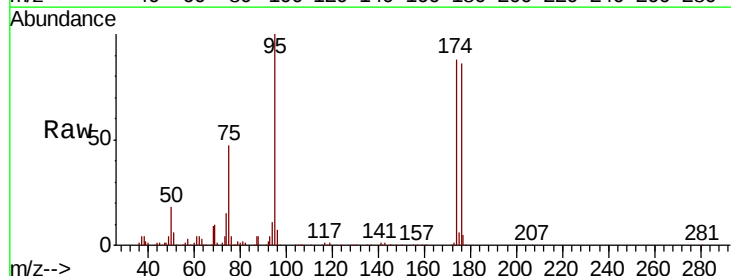
Instrument :
MSVOA_N
ClientSampleId :
14B-1DL

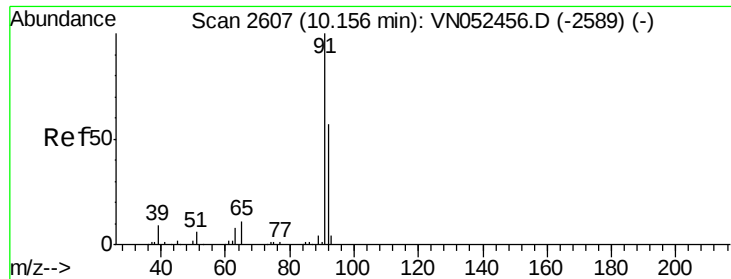
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.2	44.2	66.2
119	32.5	25.4	38.2



#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052536.D
Acq: 28 Nov 2018 23:27

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.8	67.9	101.9
176	85.7	66.4	99.6





#62

Toluene

Concen: 0.267 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052536.D

Acq: 28 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

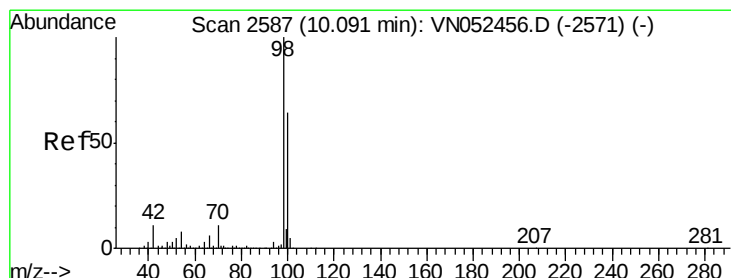
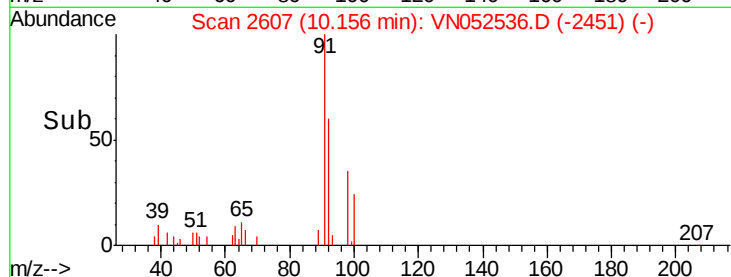
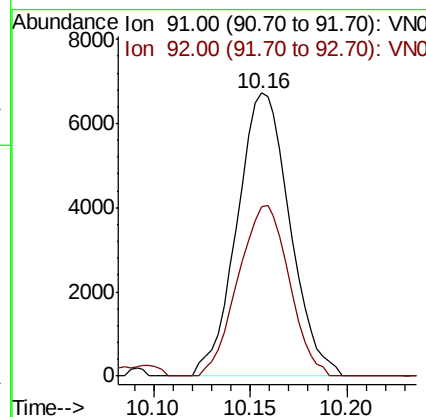
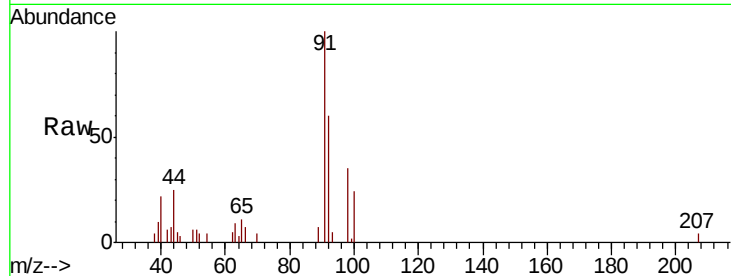
14B-1DL

Tot Ion: 91 Resp: 12744

Ion Ratio Lower Upper

91 100

92 58.3 45.4 68.2



#63

Toluene-d8

Concen: 0.267 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052536.D

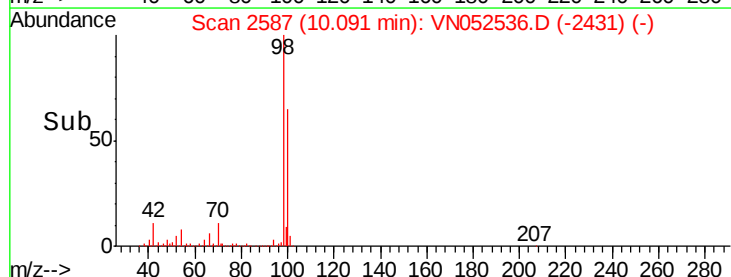
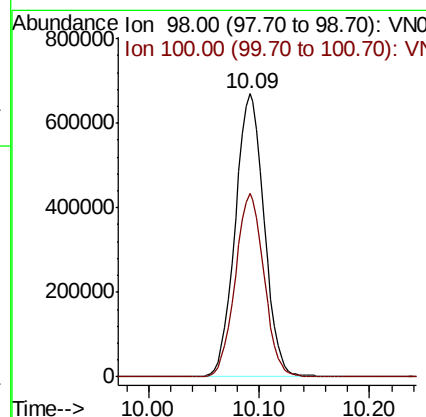
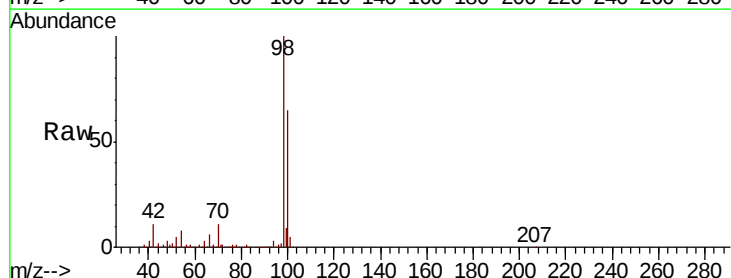
Acq: 28 Nov 2018 23:27

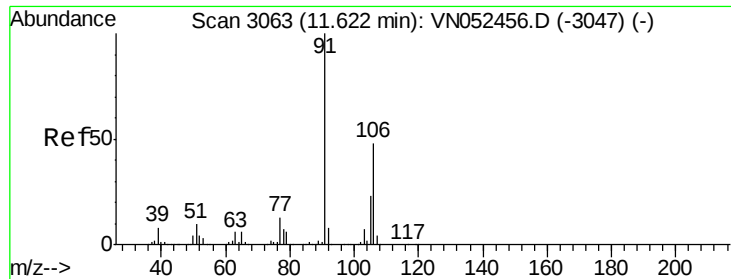
Tgt Ion: 98 Resp: 1218013

Ion Ratio Lower Upper

98 100

100 64.3 51.1 76.7

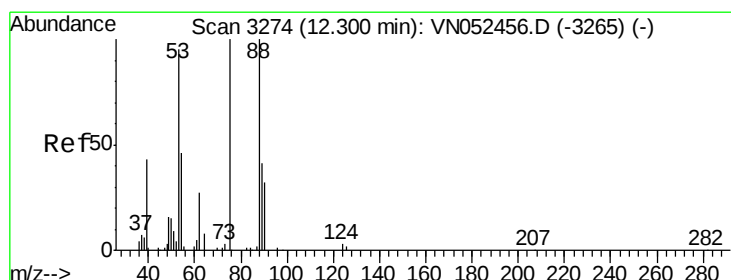
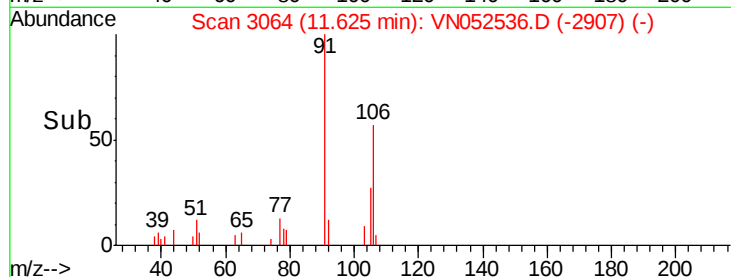
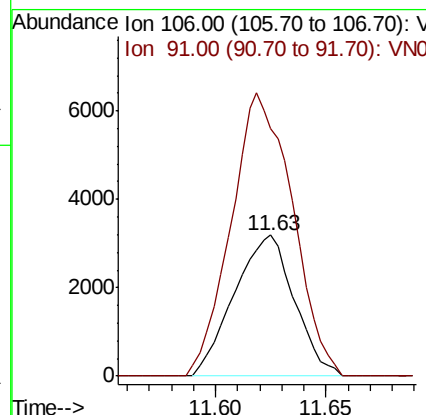
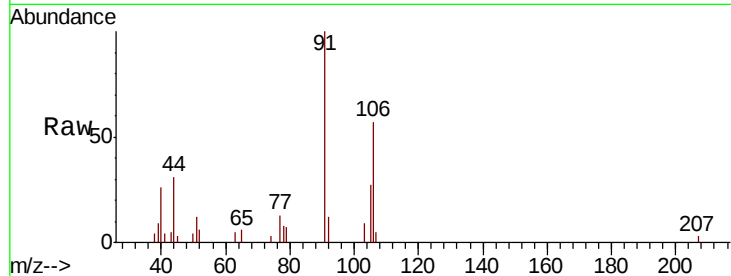




#67
m/p-Xvlenes
Concen: 0.314 ug/l
RT: 11.63 min Scan# 3064
Delta R.T. 0.00 min
Lab File: VN052536.D
Acq: 28 Nov 2018 23:27

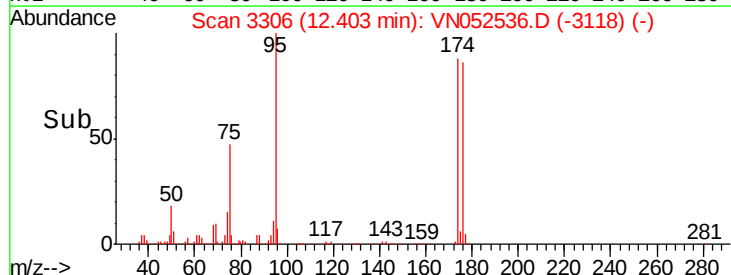
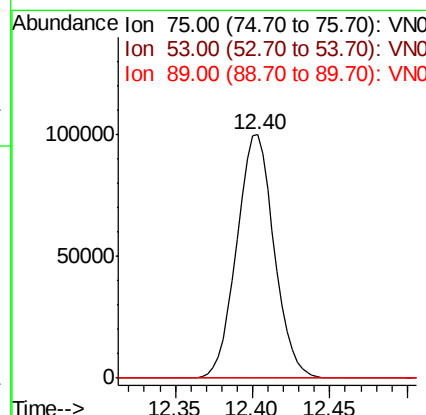
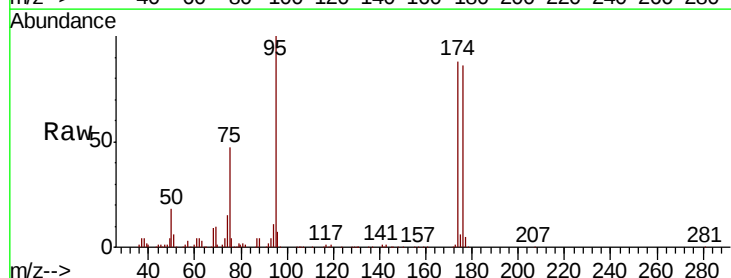
Instrument :
MSVOA_N
ClientSampleId :
14B-1DL

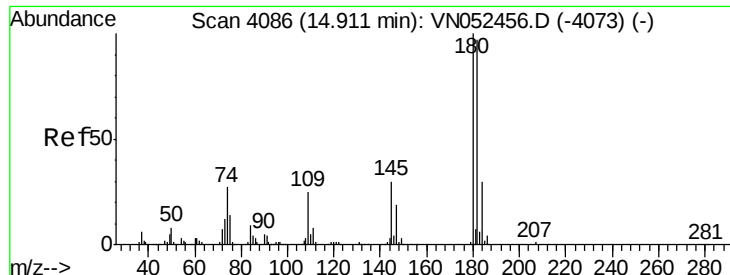
Tot Ion:106 Resp: 6025
Ion Ratio Lower Upper
106 100
91 204.7 163.9 245.9



#77
t-1,4-Dichloro-2-butene
Concen: 57.297 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN052536.D
Acq: 28 Nov 2018 23:27

Tgt Ion: 75 Resp: 167590
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.6#
89 0.0 21.7 65.1#

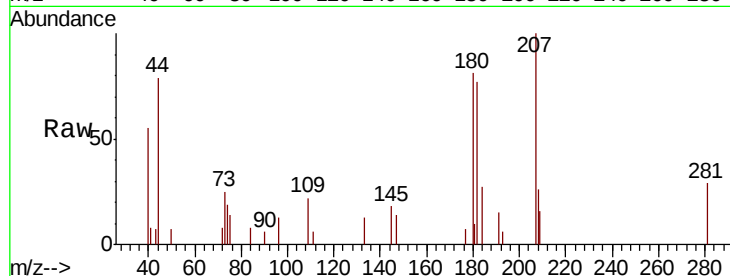




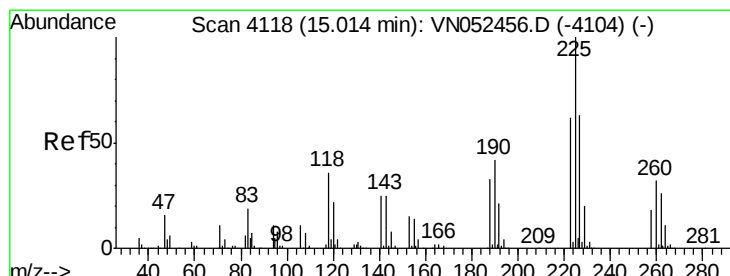
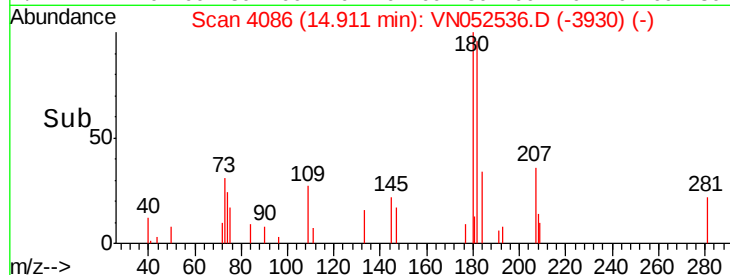
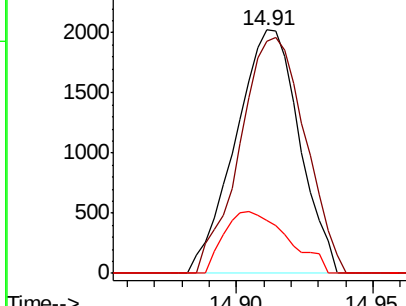
#89
 1,2,4-Trichlorobenzene
 Concen: 0.332 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052536.D
 Acq: 28 Nov 2018 23:27

Instrument :
 MSVOA_N
 ClientSampled :
 14B-1DL

Tot Ion:180 Resp: 3283
 Ion Ratio Lower Upper
 180 100
 182 99.0 76.6 114.8
 145 23.5 23.6 35.4#

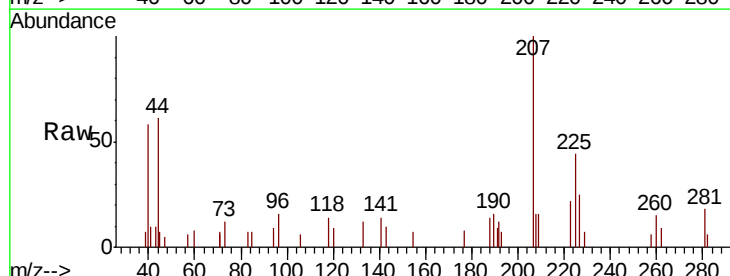


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

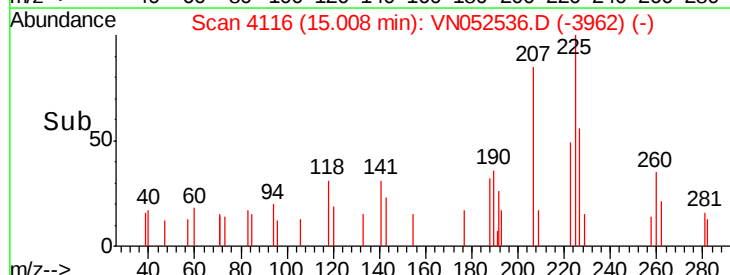
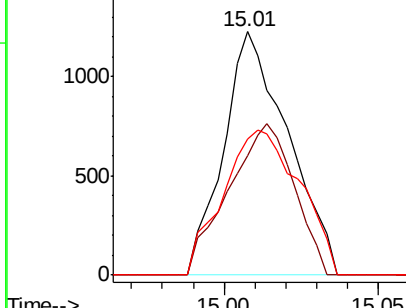


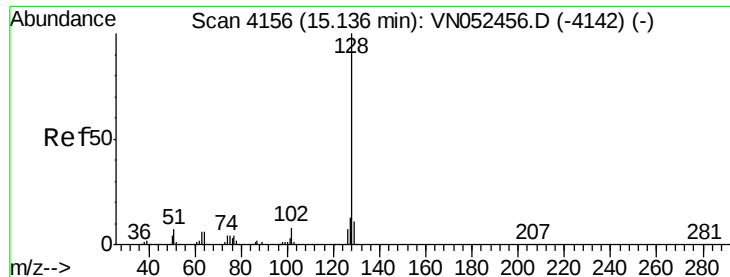
#90
 Hexachlorobutadiene
 Concen: 0.275 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.01 min
 Lab File: VN052536.D
 Acq: 28 Nov 2018 23:27

Tgt Ion:225 Resp: 1782
 Ion Ratio Lower Upper
 225 100
 223 63.0 0.0 125.6
 227 70.7 0.0 127.8



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 0.539 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052536.D

Acq: 28 Nov 2018 23:27

Instrument :

MSVOA_N

ClientSampleId :

14B-1DL

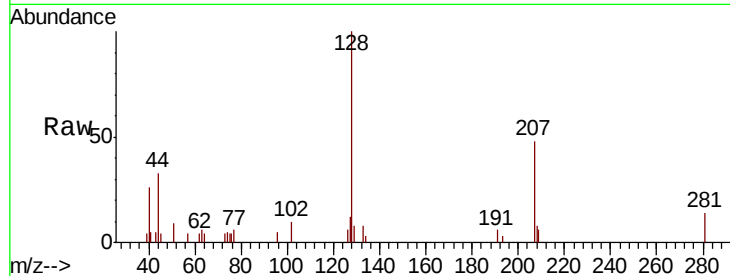
Tot Ion:128 Resp: 10754

Ion Ratio Lower Upper

128 100

127 11.9 9.9 14.9

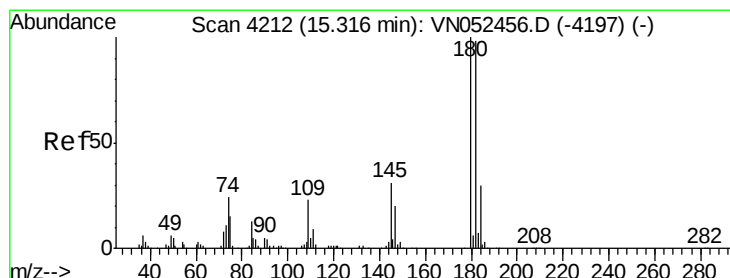
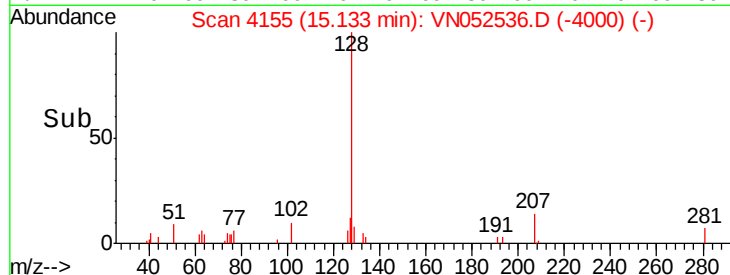
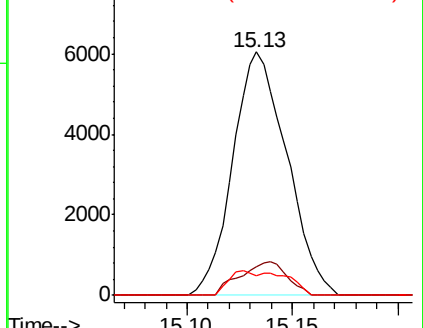
129 5.1 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.486 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN052536.D

Acq: 28 Nov 2018 23:27

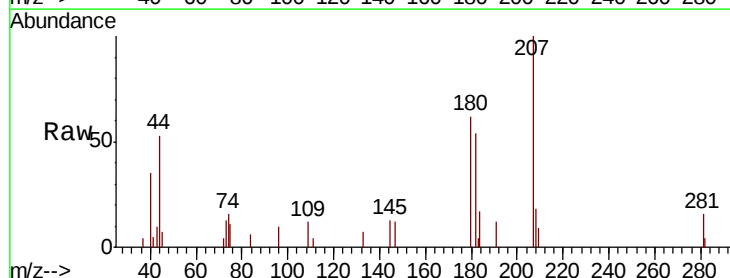
Tgt Ion:180 Resp: 4430

Ion Ratio Lower Upper

180 100

182 92.4 0.0 196.2

145 23.1 0.0 62.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

