

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055135.D
 Acq On : 19 Apr 2019 12:15
 Operator : JC/SP
 Sample : K2471-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 55-ST-9

Quant Time: Apr 20 03:38:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	75050	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	374551	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	305250	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	170429	29.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.30%
60) 4-Bromofluorobenzene	12.40	95	106375	22.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	74.60%
63) Toluene-d8	10.09	98	456543	31.46	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.87%

Target Compounds

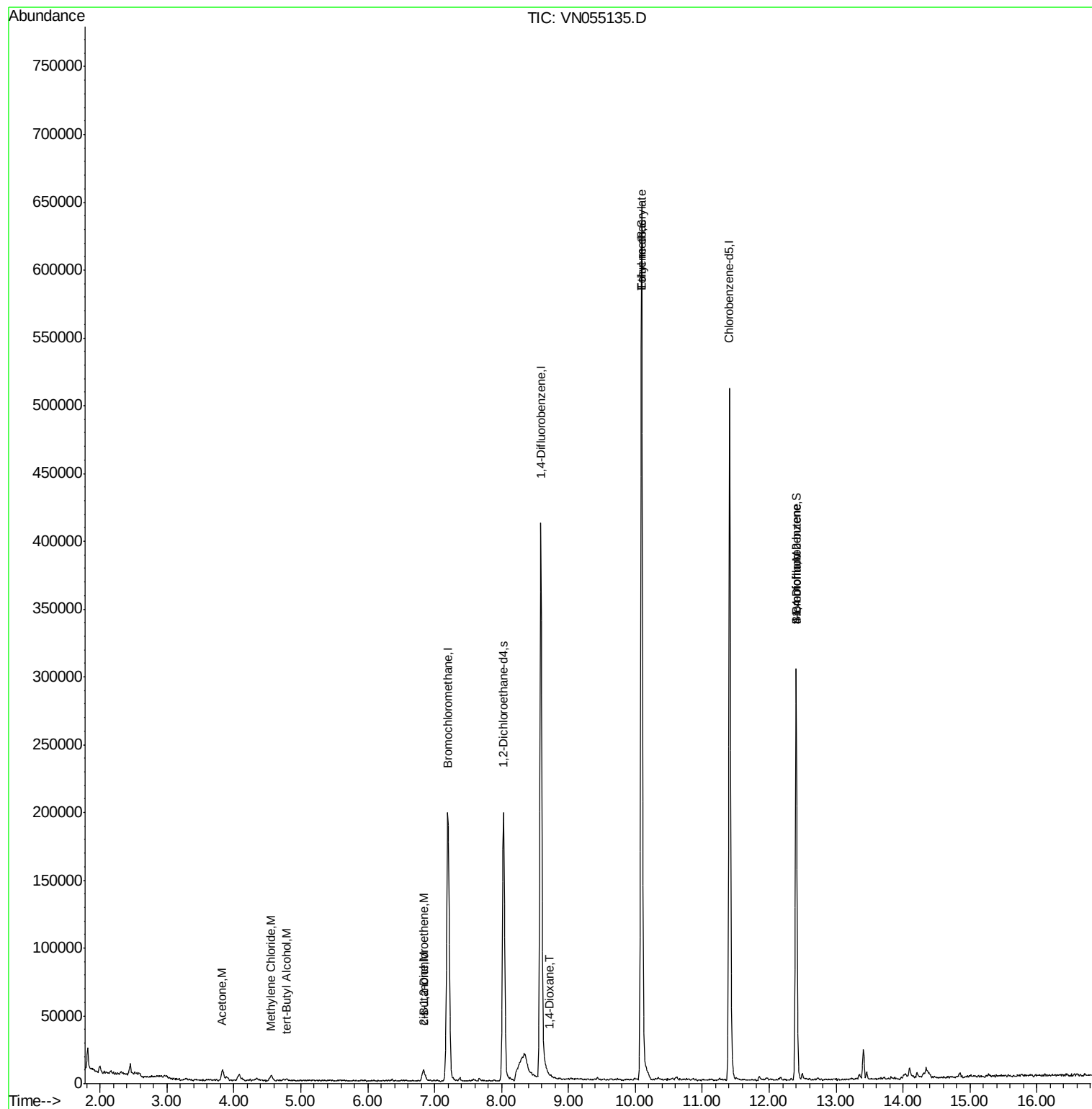
					Ovalue	
15) Acetone	3.83	58	2432	5.857	ug/l #	53
18) Methylene Chloride	4.56	84	1048	0.213	ug/l #	61
22) cis-1,2-Dichloroethene	6.84	96	3330	0.661	ug/l #	87
23) tert-Butyl Alcohol	4.80	59	141	0.527	ug/l #	100
30) 2-Butanone	6.84	43	623	0.322	ug/l #	59
45) 1,4-Dioxane	8.72	88	23	0.621	ug/l #	1
51) Ethyl methacrylate	10.10	69	1302	0.298	ug/l	72
56) Bromoform	12.40	173	493	0.208	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	55794	66.180	ug/l #	1

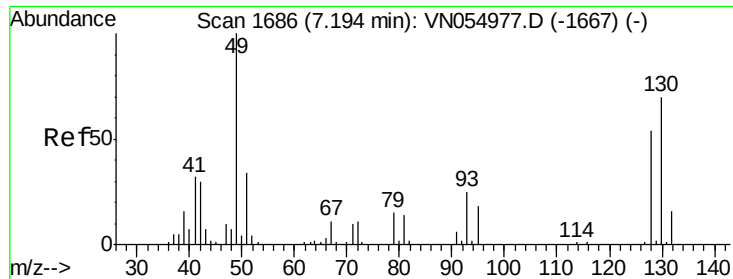
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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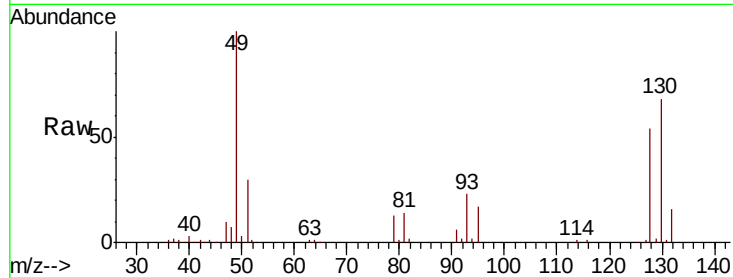




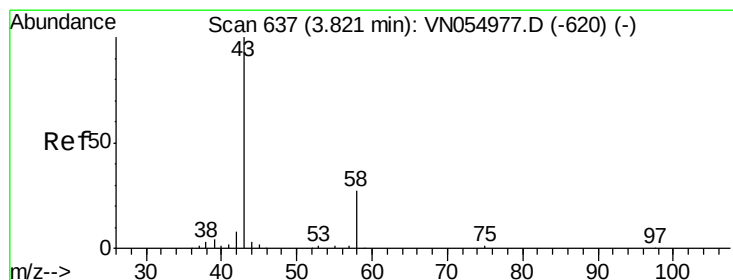
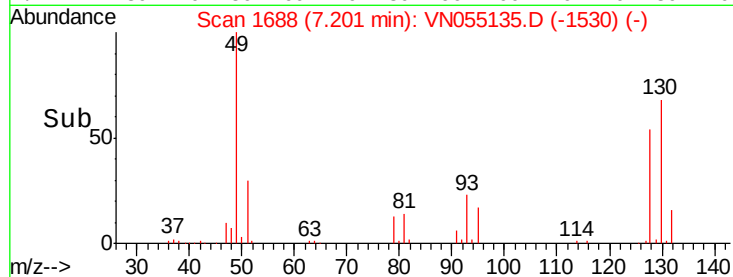
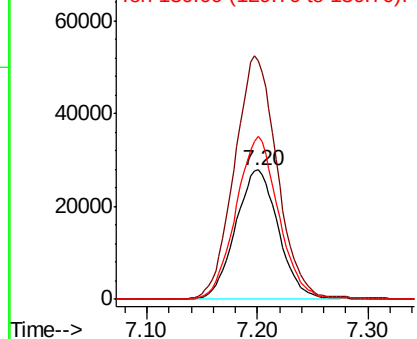
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN055135.D
Acq: 19 Apr 2019 12:15

Instrument :
MSVOA_N
ClientSampled :
55-ST-9

Tot Ion:128 Resp: 75050
Ion Ratio Lower Upper
128 100
49 187.7 0.0 480.3
130 124.6 0.0 322.2

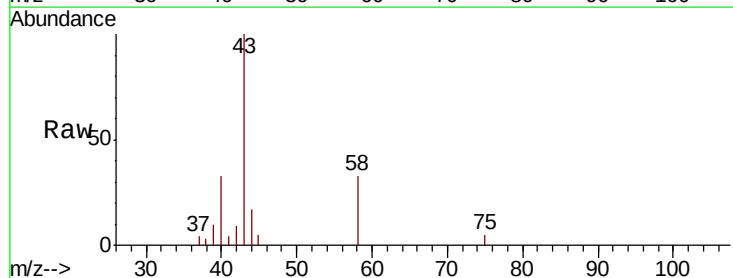


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

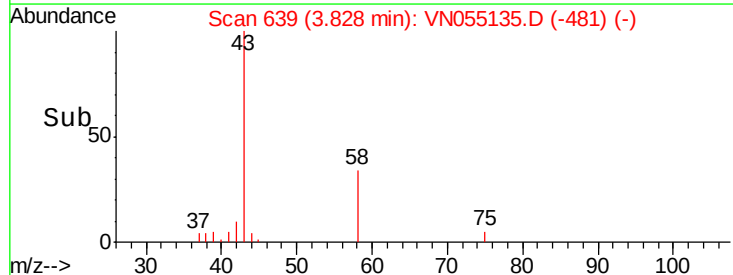
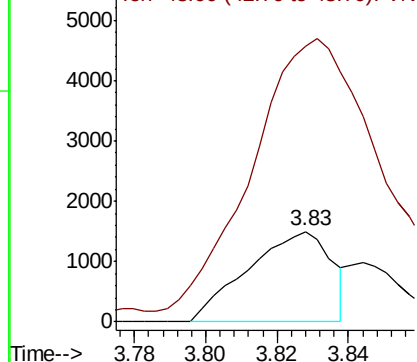


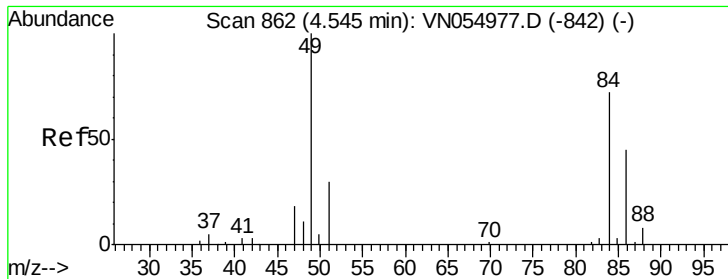
#15
Acetone
Concen: 5.857 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN055135.D
Acq: 19 Apr 2019 12:15

Tgt Ion: 58 Resp: 2432
Ion Ratio Lower Upper
58 100
43 265.3 297.2 445.8#



Abundance Ion 58.00 (57.70 to 58.70): VN
Ion 43.00 (42.70 to 43.70): VN

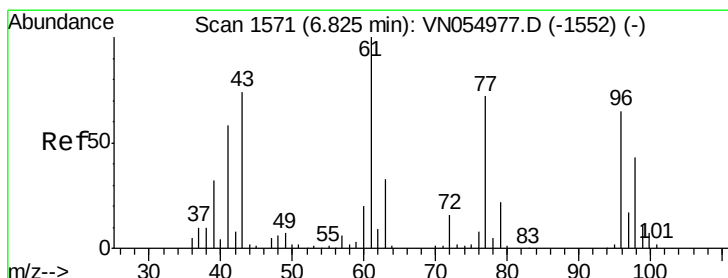
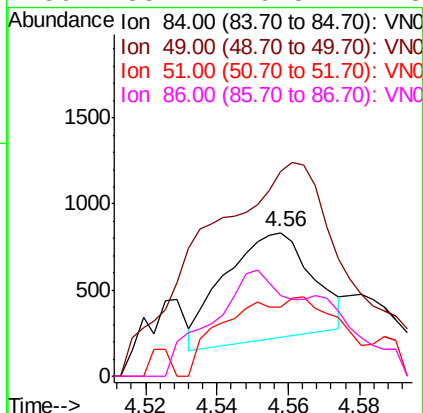
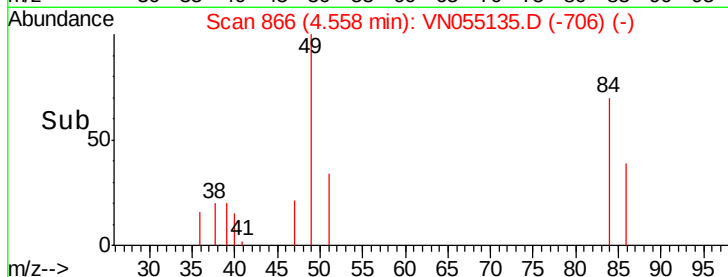
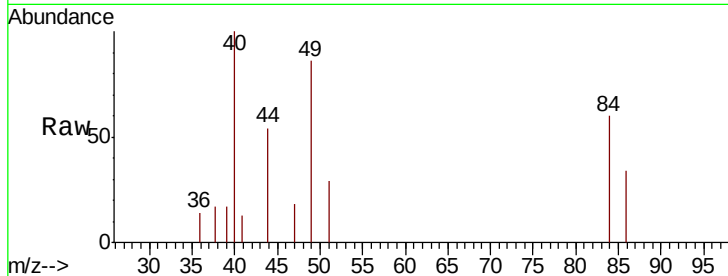




#18
Methylene Chloride
Concen: 0.213 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN055135.D
Acq: 19 Apr 2019 12:15

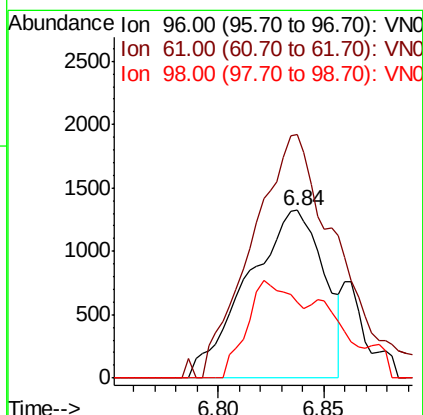
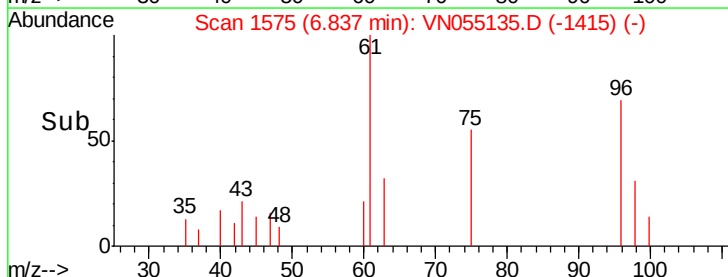
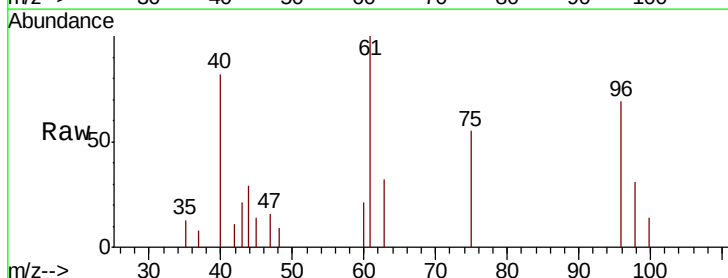
Instrument :
MSVOA_N
ClientSampleId :
55-ST-9

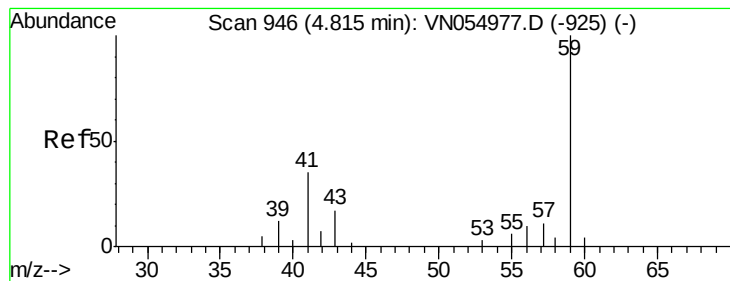
Tot Ion: 84 Resp: 1048
Ion Ratio Lower Upper
84 100
49 90.8 111.0 166.4#
51 72.1 33.4 50.2#
86 38.7 49.5 74.3#



#22
cis-1,2-Dichloroethene
Concen: 0.661 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN055135.D
Acq: 19 Apr 2019 12:15

Tgt Ion: 96 Resp: 3330
Ion Ratio Lower Upper
96 100
61 162.0 125.0 187.6
98 37.9 52.2 78.2#





#23

tert-Butyl Alcohol

Concen: 0.527 ug/l

RT: 4.80 min Scan# 940

Delta R.T. -0.02 min

Lab File: VN055135.D

Acq: 19 Apr 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

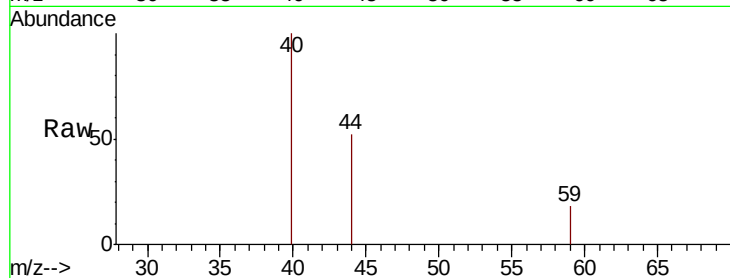
55-ST-9

Tot Ion: 59 Resp: 141

Ion Ratio Lower Upper

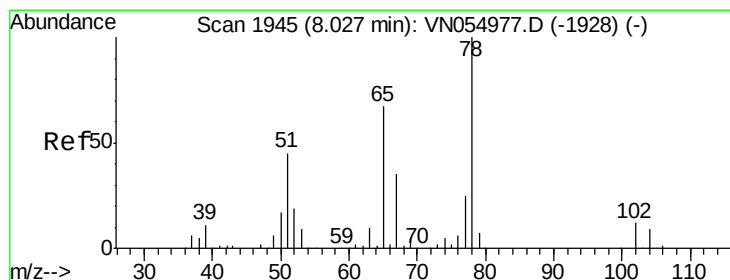
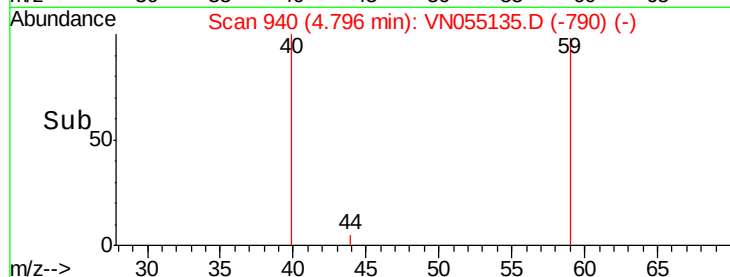
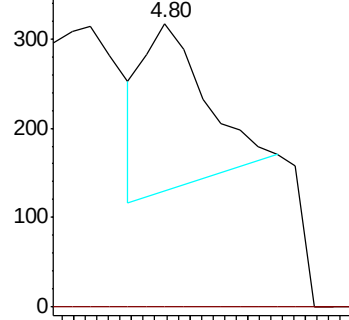
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#27

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN055135.D

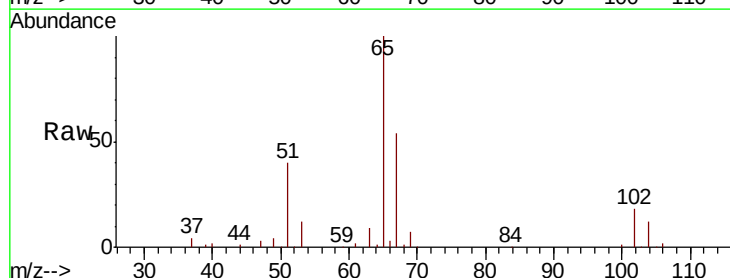
Acq: 19 Apr 2019 12:15

Tgt Ion: 65 Resp: 170429

Ion Ratio Lower Upper

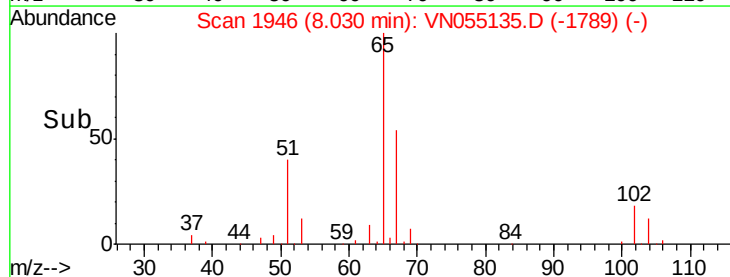
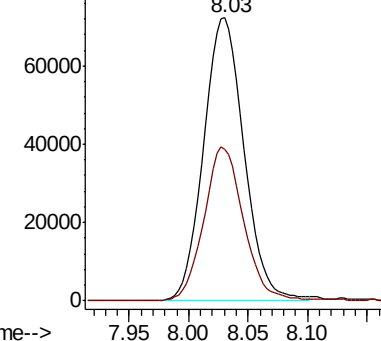
65 100

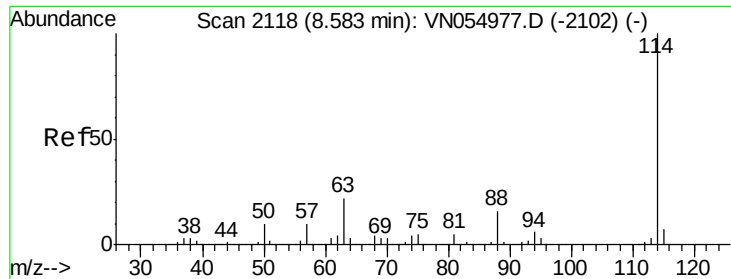
67 53.5 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

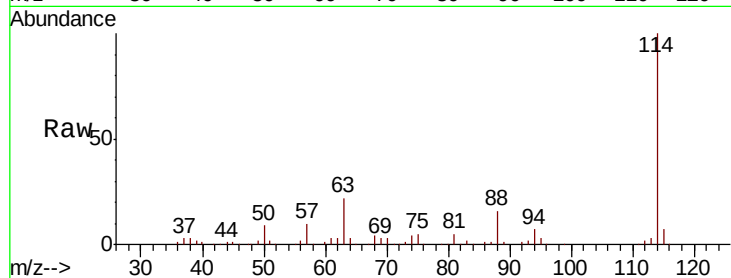




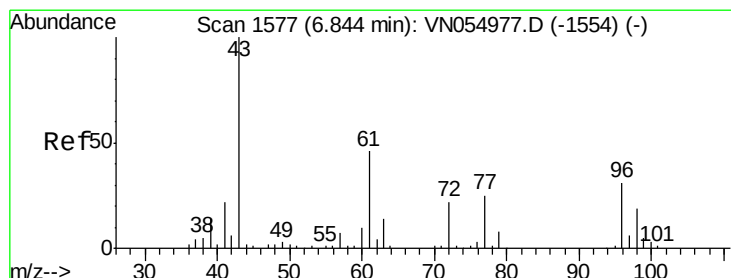
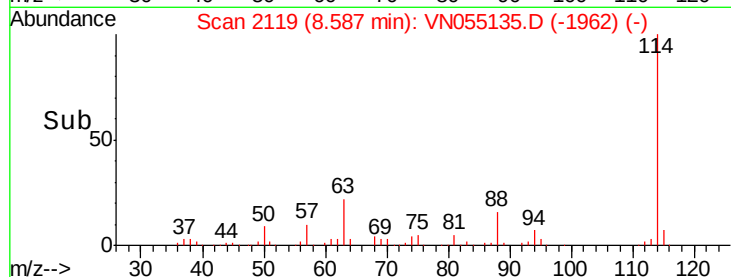
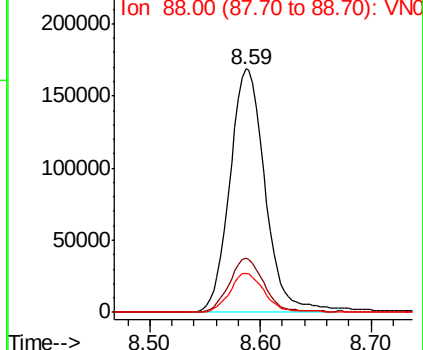
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055135.D
 Acq: 19 Apr 2019 12:15

Instrument :
 MSVOA_N
 ClientSampled :
 55-ST-9

Tot Ion:114 Resp: 374551
 Ion Ratio Lower Upper
 114 100
 63 22.1 17.0 25.4
 88 15.4 12.3 18.5

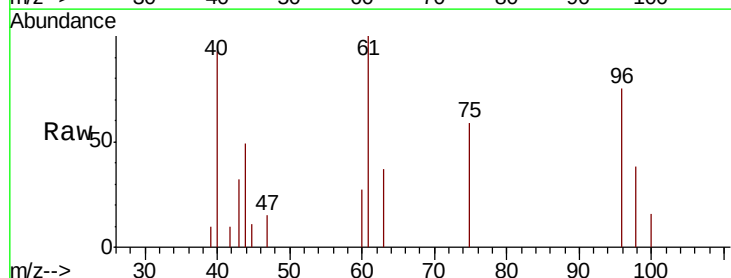


Abundance Ion 114.00 (113.70 to 114.70): VN054977.D (-2102) (-)
 Ion 63.00 (62.70 to 63.70): VN054977.D (-2102) (-)
 Ion 88.00 (87.70 to 88.70): VN054977.D (-2102) (-)

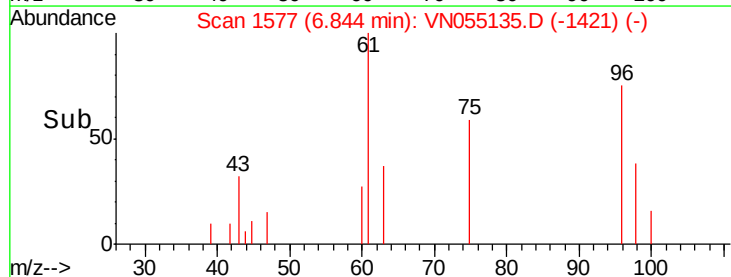
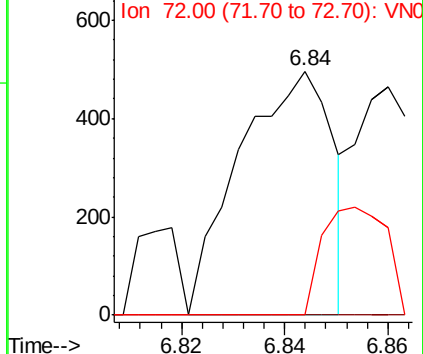


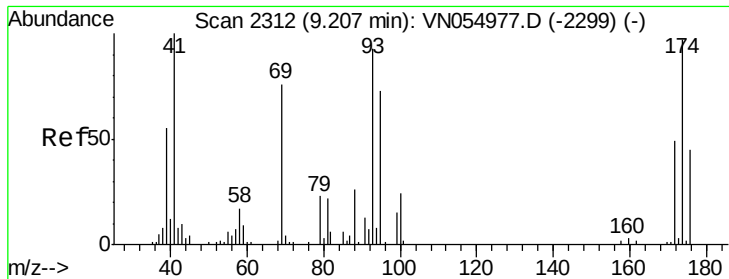
#30
 2-Butanone
 Concen: 0.322 ug/l
 RT: 6.84 min Scan# 1577
 Delta R.T. 0.00 min
 Lab File: VN055135.D
 Acq: 19 Apr 2019 12:15

Tgt Ion: 43 Resp: 623
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.0 9.0#
 72 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN054977.D (-1554) (-)
 Ion 57.00 (56.70 to 57.70): VN054977.D (-1554) (-)
 Ion 72.00 (71.70 to 72.70): VN054977.D (-1554) (-)

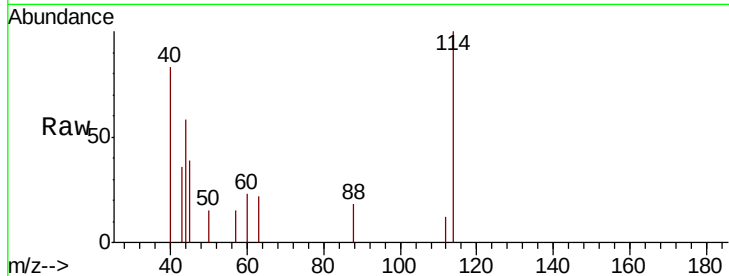




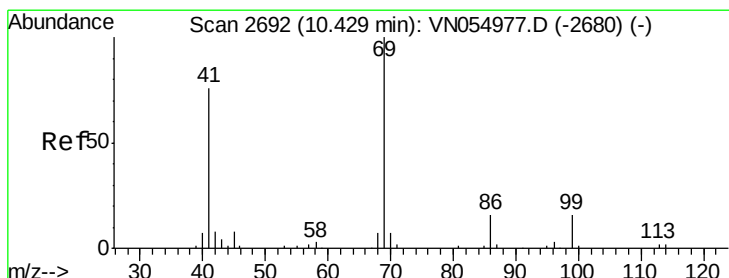
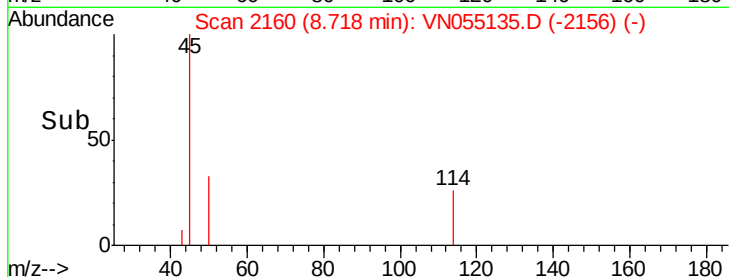
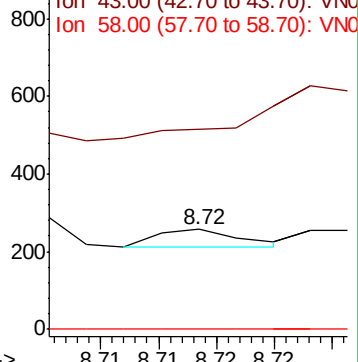
#45
 1,4-Dioxane
 Concen: 0.621 ug/l
 RT: 8.72 min Scan# 2160
 Delta R.T. -0.49 min
 Lab File: VN055135.D
 Acq: 19 Apr 2019 12:15

Instrument :
 MSVOA_N
 ClientSampled :
 55-ST-9

Tot Ion: 88 Resp: 23
 Ion Ratio Lower Upper
 88 100
 43 900.0 34.5 51.7#
 58 0.0 60.3 90.5#

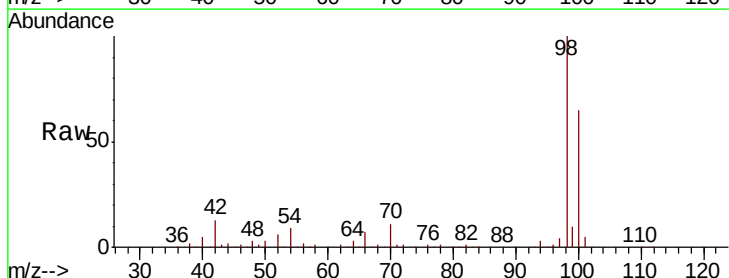


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

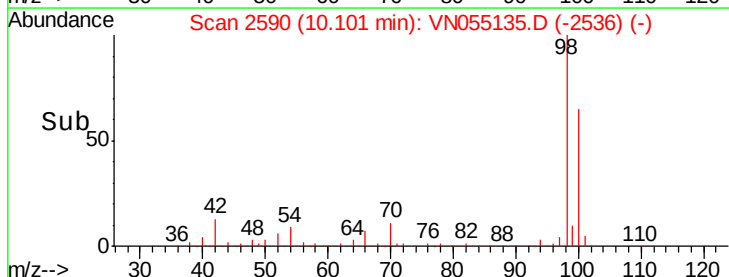
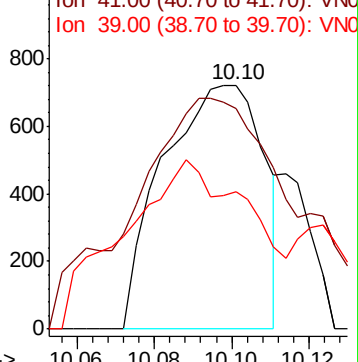


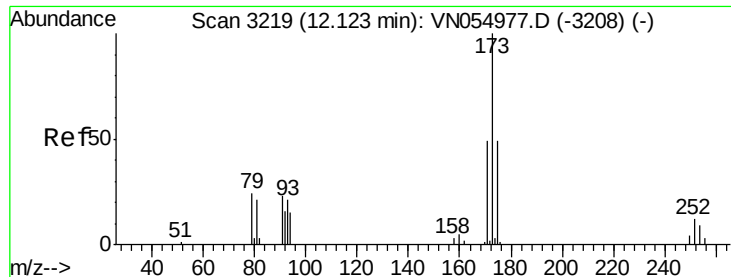
#51
 Ethyl methacrylate
 Concen: 0.298 ug/l
 RT: 10.10 min Scan# 2590
 Delta R.T. -0.33 min
 Lab File: VN055135.D
 Acq: 19 Apr 2019 12:15

Tgt Ion: 69 Resp: 1302
 Ion Ratio Lower Upper
 69 100
 41 51.6 37.9 113.7
 39 23.0 19.8 59.4



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





#56

Bromoform

Concen: 0.208 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN055135.D

Acq: 19 Apr 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

55-ST-9

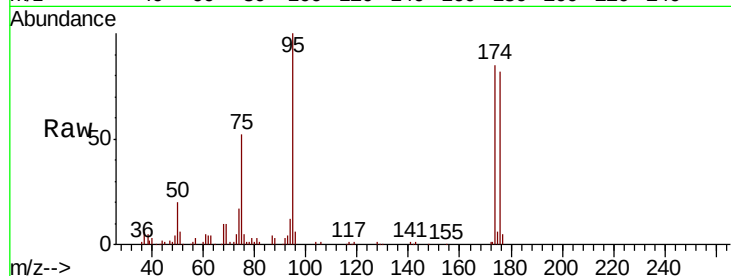
Tot Ion:173 Resp: 493

Ion Ratio Lower Upper

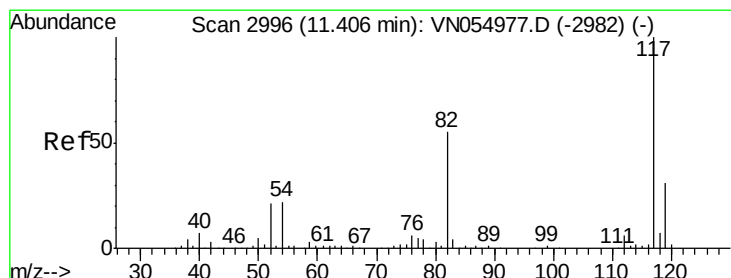
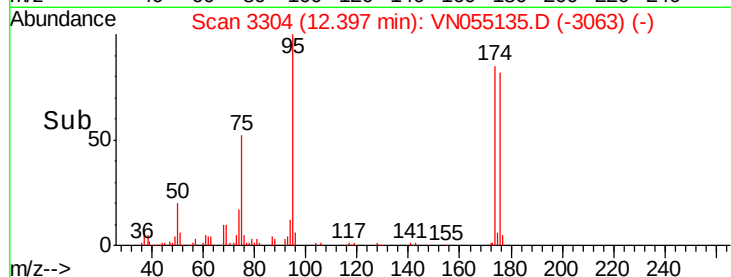
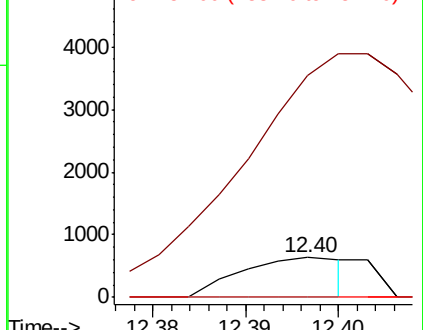
173 100

175 1401.0 38.6 57.8#

254 0.0 6.8 10.2#



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



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN055135.D

Acq: 19 Apr 2019 12:15

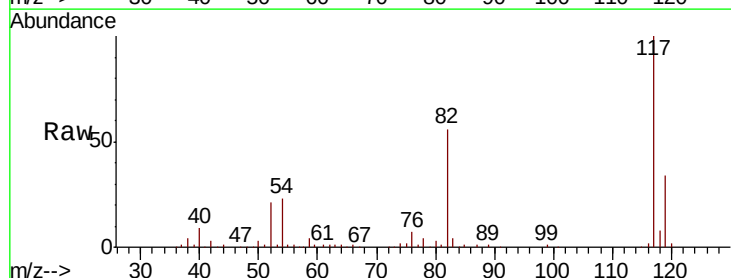
Tgt Ion:117 Resp: 305250

Ion Ratio Lower Upper

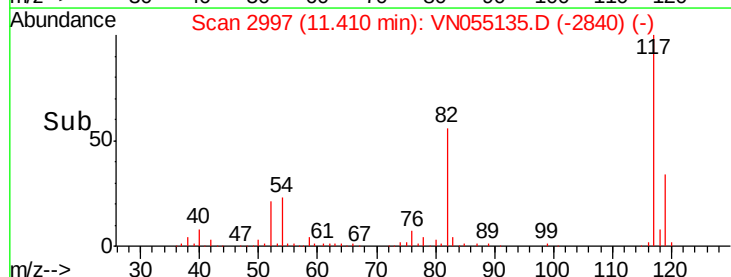
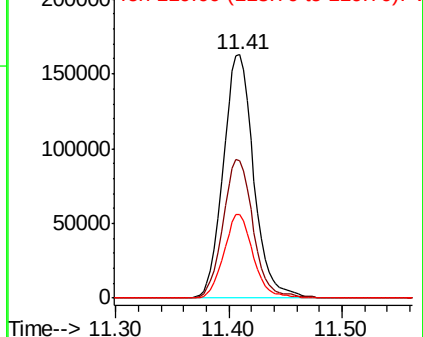
117 100

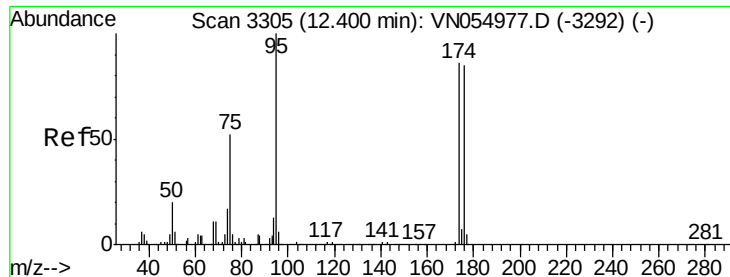
82 56.5 45.2 67.8

119 33.1 25.4 38.2



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055135.D

Acq: 19 Apr 2019 12:15

Instrument :

MSVOA_N

ClientSampleId :

55-ST-9

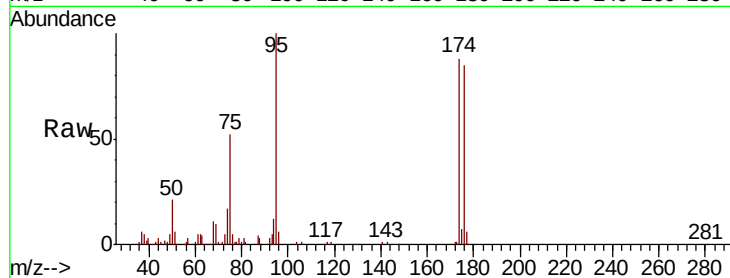
Tot Ion: 95 Resp: 106375

Ion Ratio Lower Upper

95 100

174 87.9 69.4 104.2

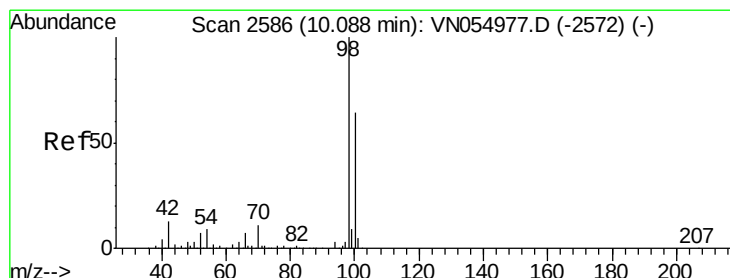
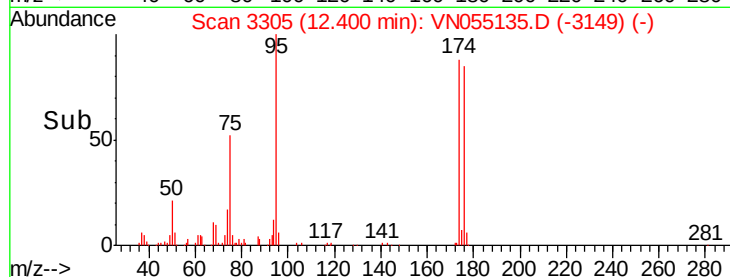
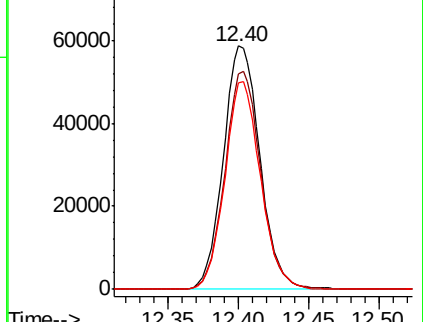
176 83.3 67.4 101.2



Abundance Ion 95.00 (94.70 to 95.70): VN054977.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN054977.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN054977.D (-3292) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055135.D

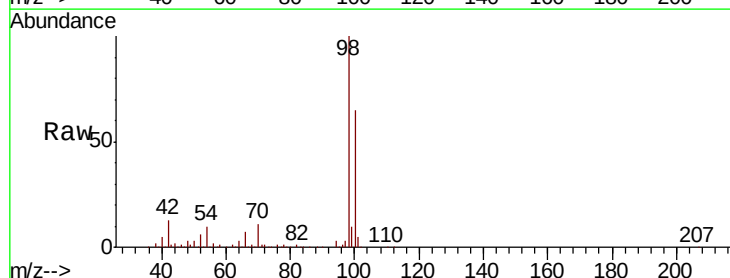
Acq: 19 Apr 2019 12:15

Tgt Ion: 98 Resp: 456543

Ion Ratio Lower Upper

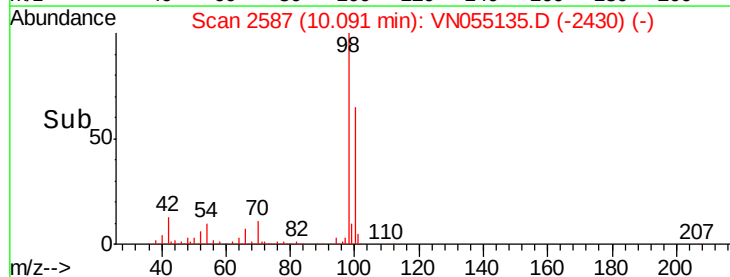
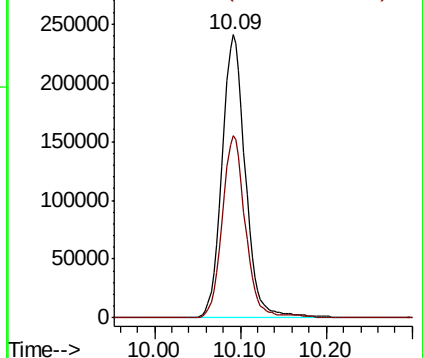
98 100

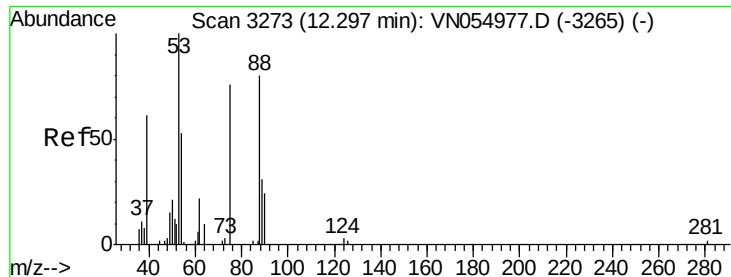
100 63.3 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN054977.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN054977.D (-2572) (-)





#77
 t-1,4-Dichloro-2-butene
 Concen: 66.180 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.11 min
 Lab File: VN055135.D
 Acq: 19 Apr 2019 12:15

Instrument :
 MSVOA_N
 ClientSampleId :
 55-ST-9

Tot Ion: 75 Resp: 55794
 Ion Ratio Lower Upper
 75 100
 53 0.0 64.3 192.7#
 89 0.0 21.6 65.0#

