

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055740.D
 Acq On : 23 May 2019 00:52
 Operator : JC/SP
 Sample : K2965-04 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4

Quant Time: May 23 06:06:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:54:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	57057	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	299997	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	238557	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	111453	29.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.60%	
60) 4-Bromofluorobenzene		12.40	95	90336	24.34	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	81.13%	
63) Toluene-d8		10.09	98	346818	31.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.03%	

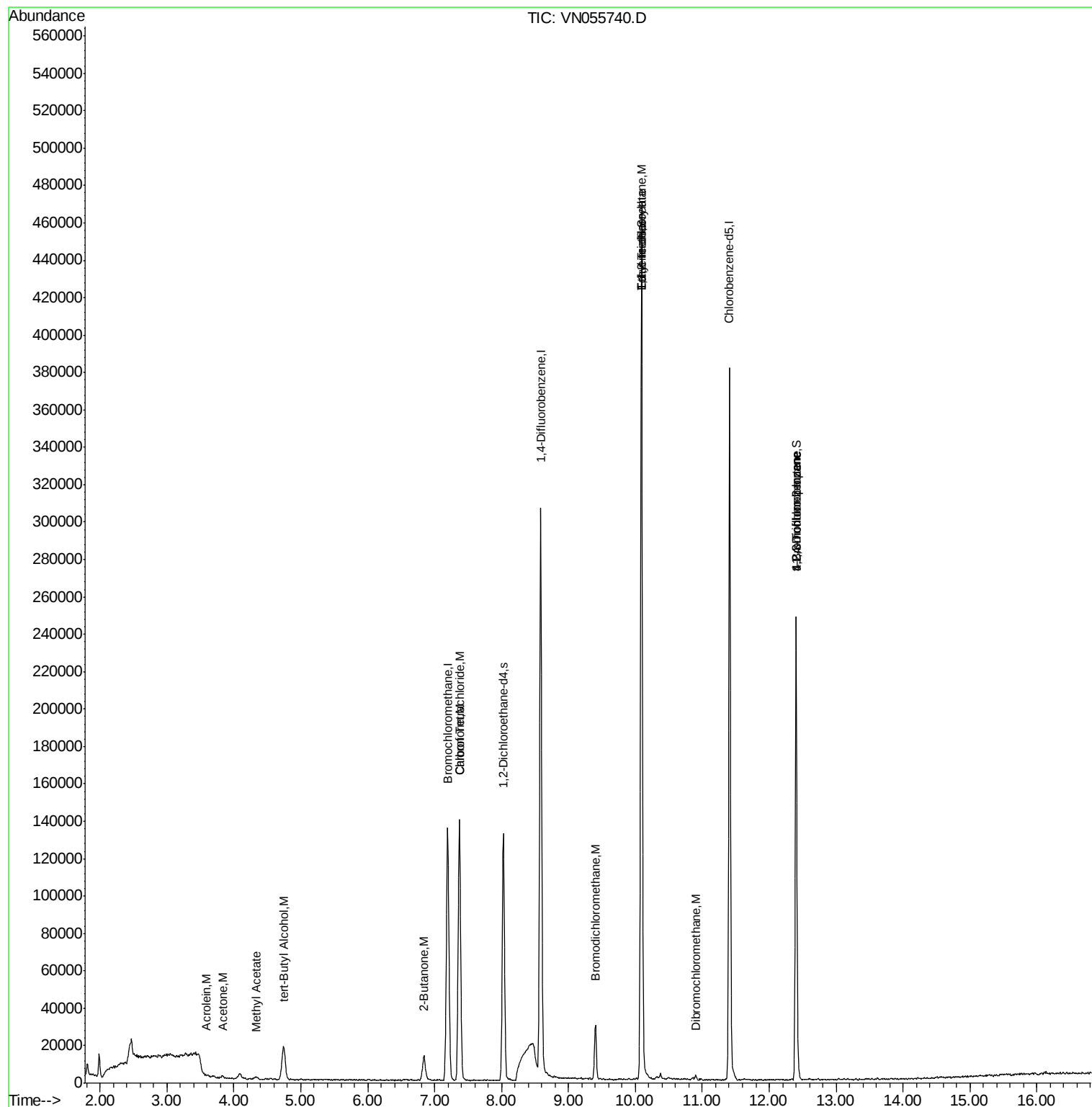
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) Methyl Acetate	4.33	43	1330	0.361	ug/l #	60
13) Acrolein	3.60	56	518	1.012	ug/l #	26
15) Acetone	3.83	58	415	0.796	ug/l #	1
23) tert-Butyl Alcohol	4.74	59	16691	22.632	ug/l #	100
25) Chloroform	7.37	83	149404	25.437	ug/l	99
30) 2-Butanone	6.84	43	599	0.268	ug/l #	55
33) Carbon Tetrachloride	7.37	117	1865	0.419	ug/l	95
41) Bromodichloromethane	9.40	83	21245	4.606	ug/l	99
50) 1,1,2-Trichloroethane	10.10	97	9718	2.966	ug/l #	1
51) Ethyl methacrylate	10.10	69	1122	0.212	ug/l	93
53) Dibromochloromethane	10.90	129	1572	0.406	ug/l	93
72) 1,2,3-Trichloropropane	12.40	75	42032	11.511	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	42032	28.978	ug/l #	17

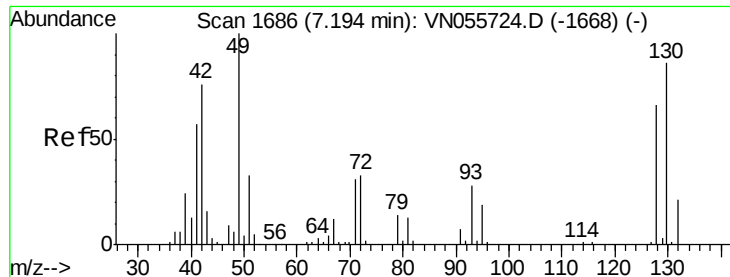
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052219\
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14B-4

Quant Time: May 23 06:06:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 23 05:54:54 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN055740.D

Acq: 23 May 2019 00:52

Instrument :

MSVOA_N

ClientSampled :

14B-4

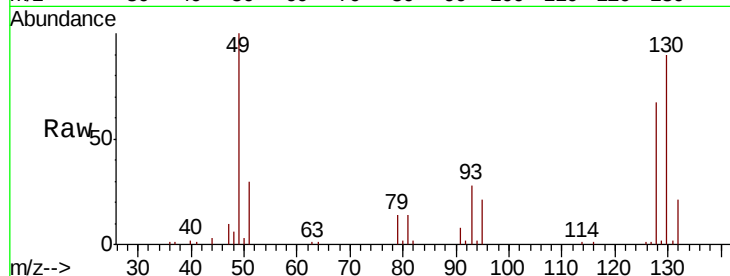
Tot Ion:128 Resp: 57057

Ion Ratio Lower Upper

128 100

49 145.8 0.0 383.2

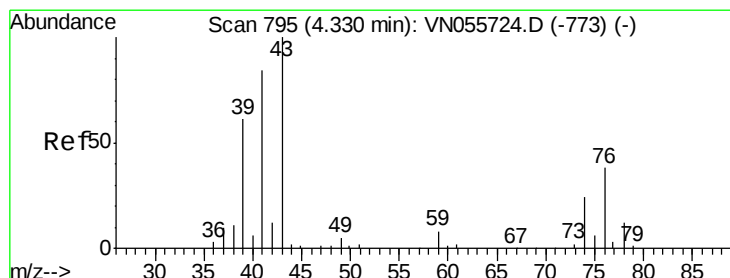
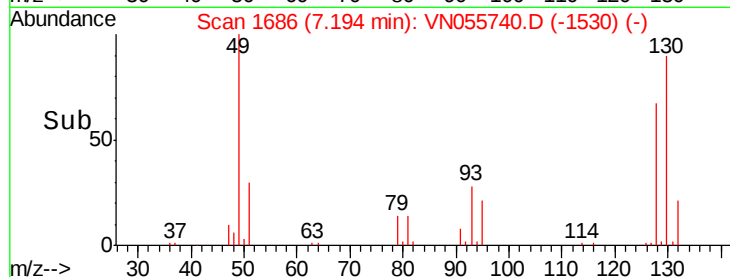
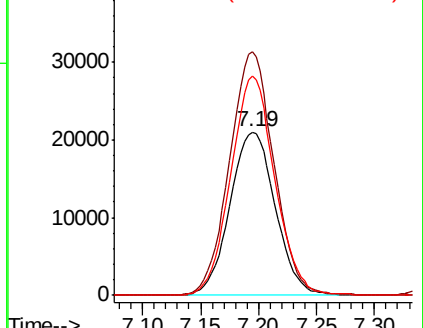
130 130.7 0.0 326.3



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



#12

Methyl Acetate

Concen: 0.361 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055740.D

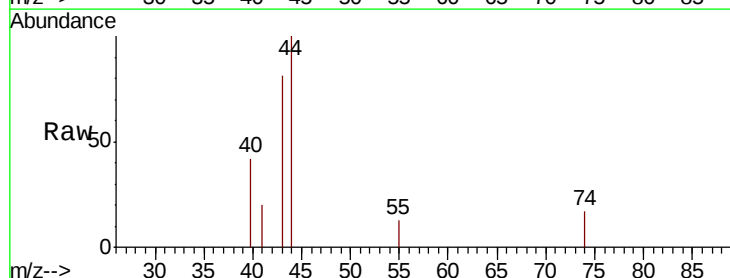
Acq: 23 May 2019 00:52

Tgt Ion: 43 Resp: 1330

Ion Ratio Lower Upper

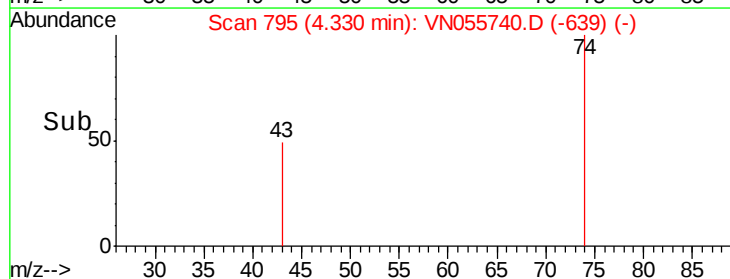
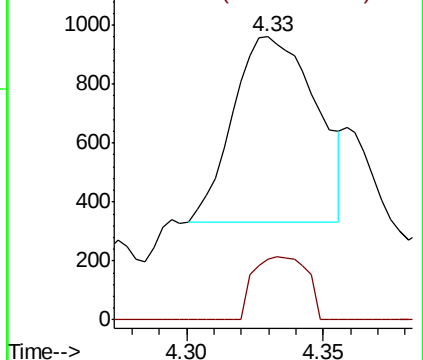
43 100

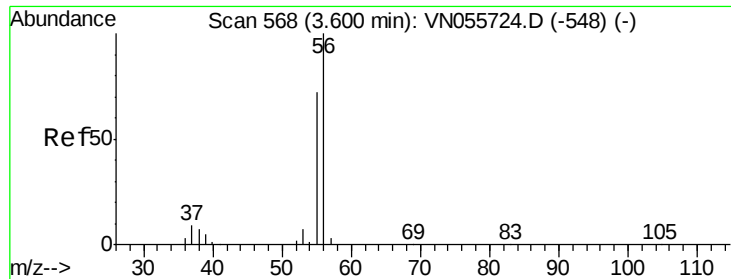
74 43.6 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN





#13

Acrolein

Concen: 1.012 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055740.D

Acq: 23 May 2019 00:52

Instrument :

MSVOA_N

ClientSampled :

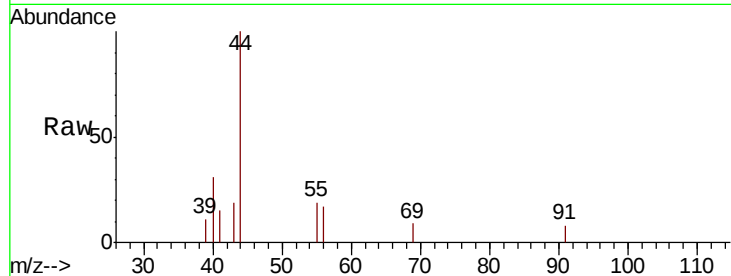
14B-4

Tot Ion: 56 Resp: 518

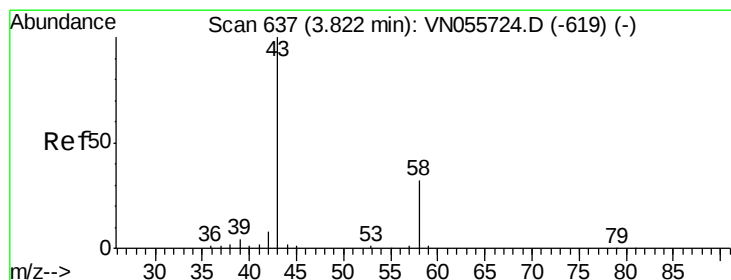
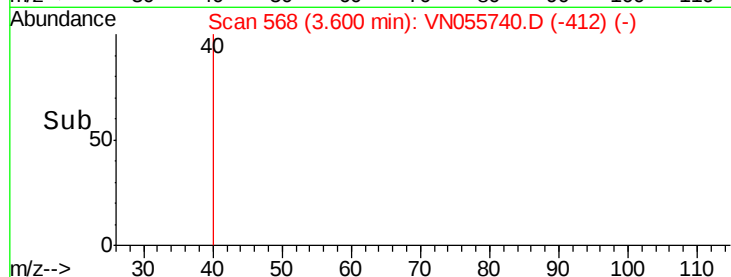
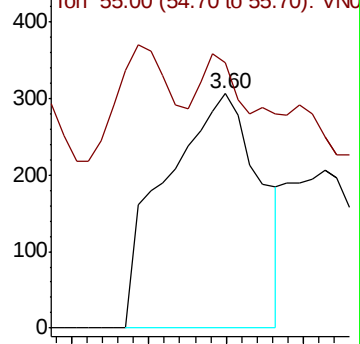
Ion Ratio Lower Upper

56 100

55 9.8 57.0 85.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0



#15

Acetone

Concen: 0.796 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055740.D

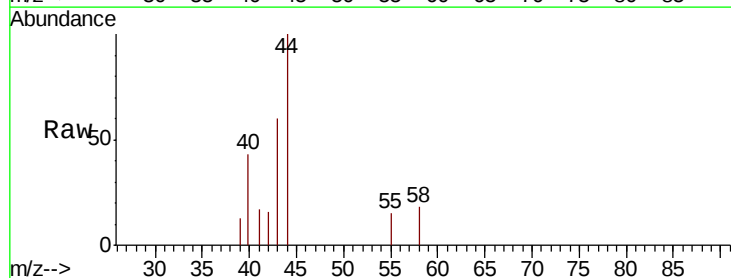
Acq: 23 May 2019 00:52

Tgt Ion: 58 Resp: 415

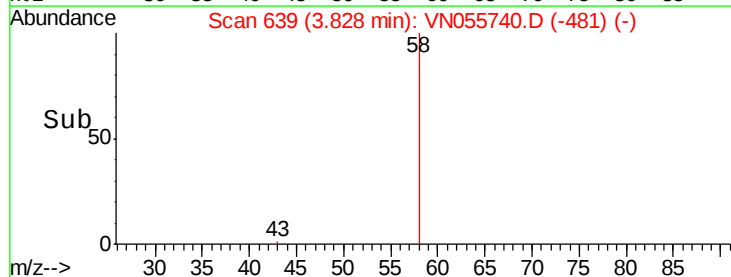
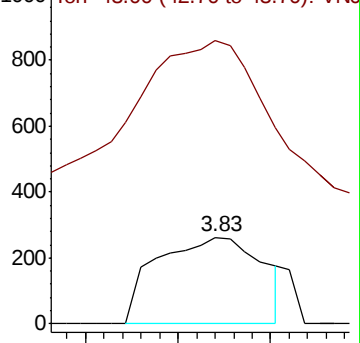
Ion Ratio Lower Upper

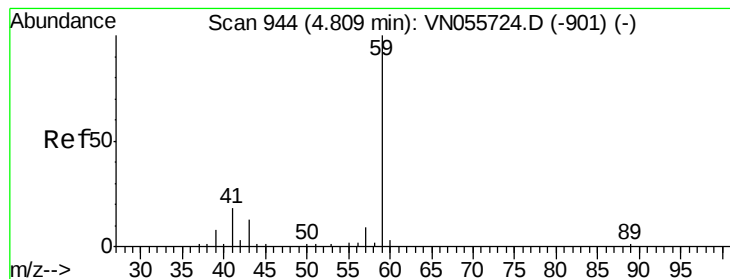
58 100

43 101.1 248.8 373.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0





#23

tert-Butyl Alcohol

Concen: 22.632 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.07 min

Lab File: VN055740.D

Acq: 23 May 2019 00:52

Instrument :

MSVOA_N

ClientSampled :

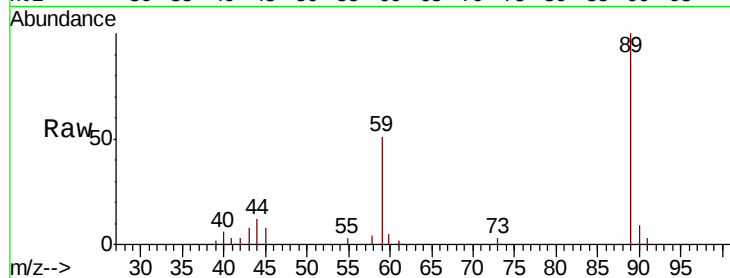
14B-4

Tot Ion: 59 Resp: 16691

Ion Ratio Lower Upper

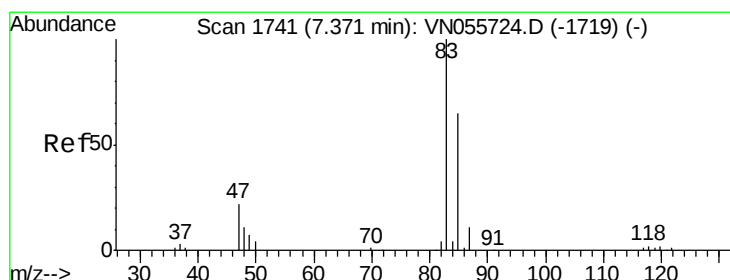
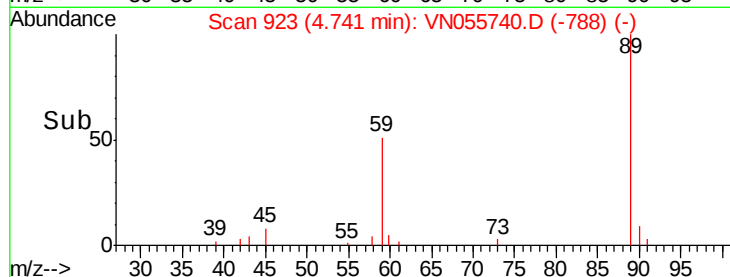
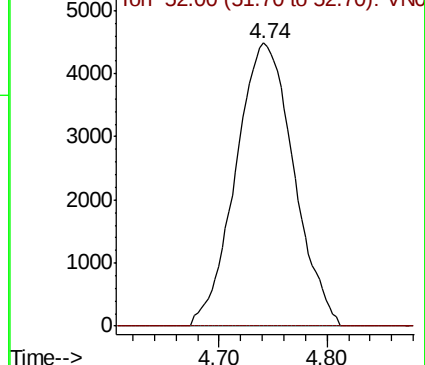
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN055724.D (-901) (-)

Ion 52.00 (51.70 to 52.70): VN055724.D (-901) (-)



#25

Chloroform

Concen: 25.437 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN055740.D

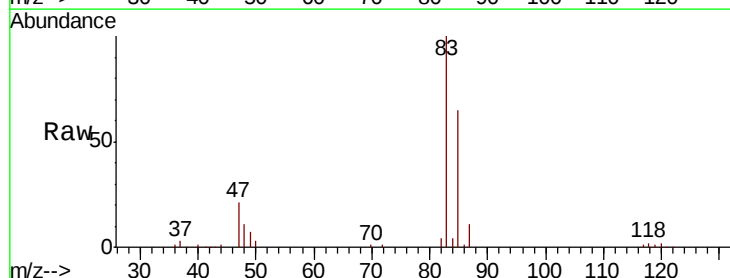
Acq: 23 May 2019 00:52

Tgt Ion: 83 Resp: 149404

Ion Ratio Lower Upper

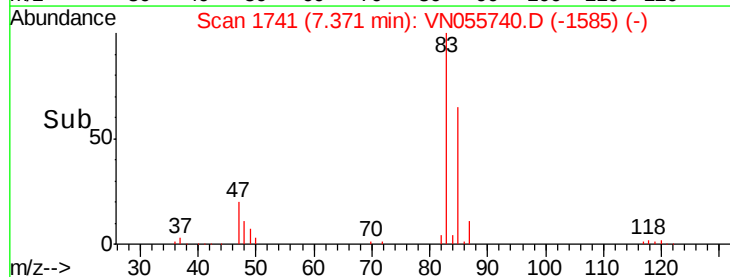
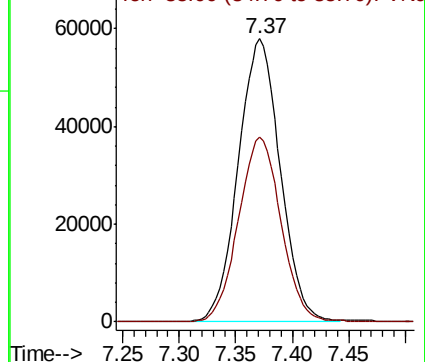
83 100

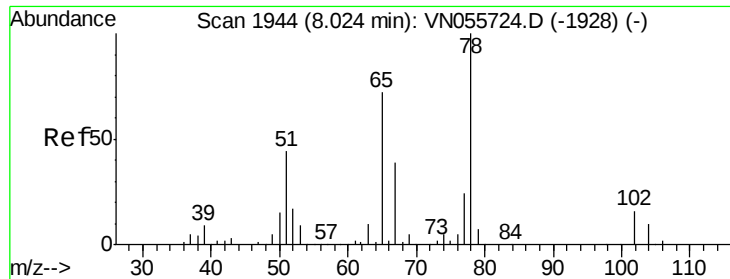
85 65.3 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): VN055724.D (-1719) (-)

Ion 85.00 (84.70 to 85.70): VN055724.D (-1719) (-)

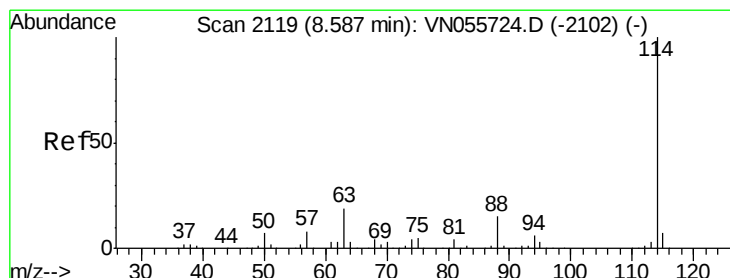
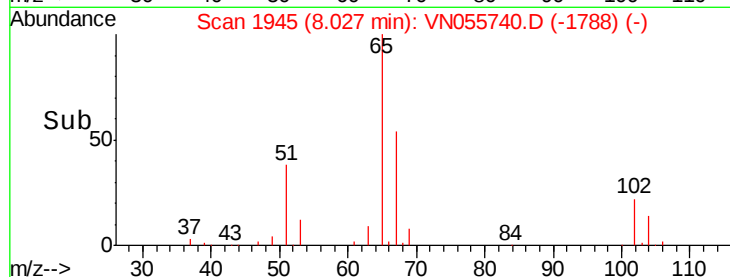
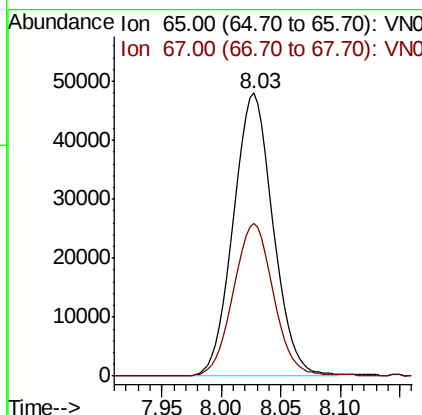
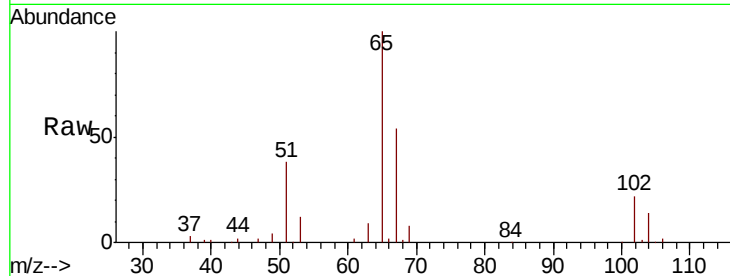




#27
 1,2-Dichloroethane-d4
 Concen: 29.885 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055740.D
 Acq: 23 May 2019 00:52

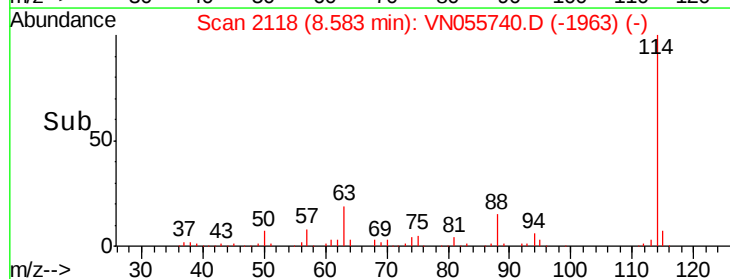
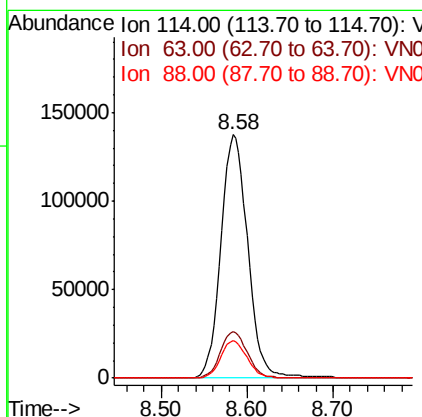
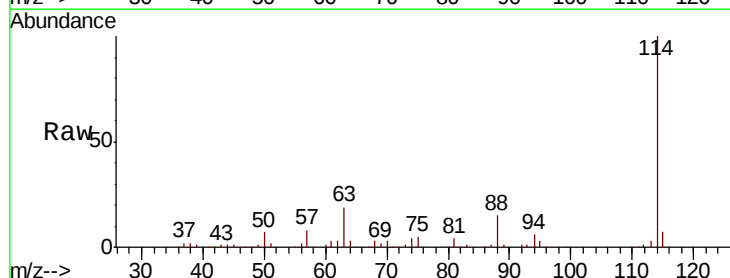
Instrument :
 MSVOA_N
 ClientSampled :
 14B-4

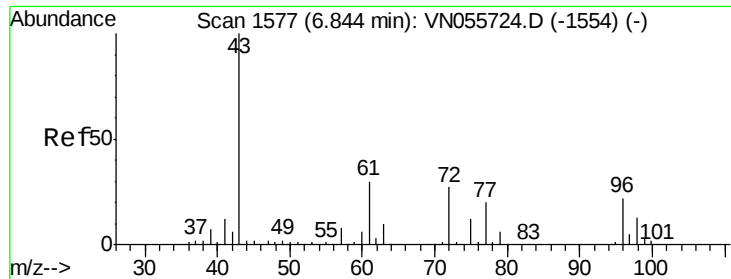
Tot Ion: 65 Resp: 111453
 Ion Ratio Lower Upper
 65 100
 67 54.5 43.5 65.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055740.D
 Acq: 23 May 2019 00:52

Tgt Ion: 114 Resp: 299997
 Ion Ratio Lower Upper
 114 100
 63 19.1 15.6 23.4
 88 15.1 12.3 18.5

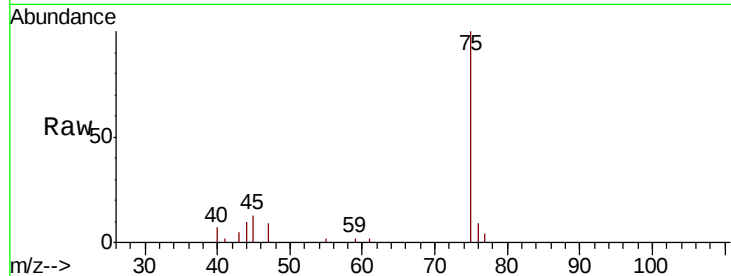




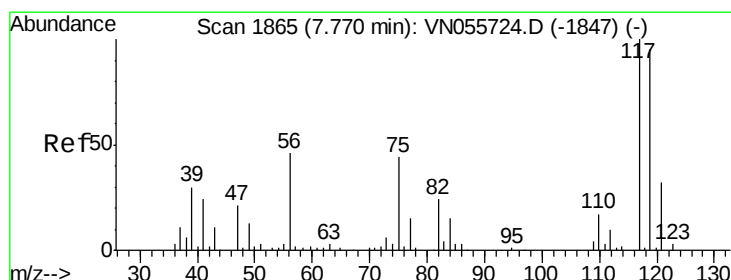
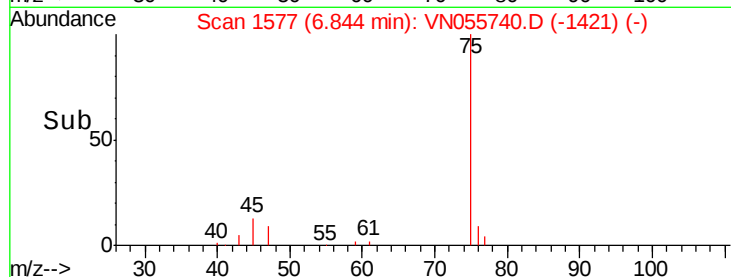
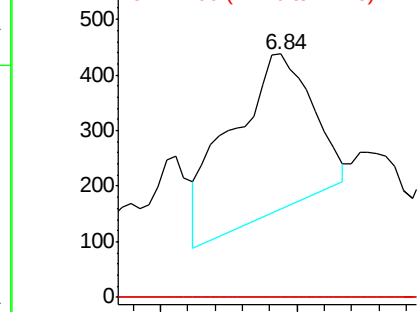
#30
2-Butanone
Concen: 0.268 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VN055740.D
Acq: 23 May 2019 00:52

Instrument :
MSVOA_N
ClientSampled :
14B-4

Tot Ion: 43 Resp: 599
Ion Ratio Lower Upper
43 100
57 0.0 6.6 10.0#
72 0.0 21.7 32.5#

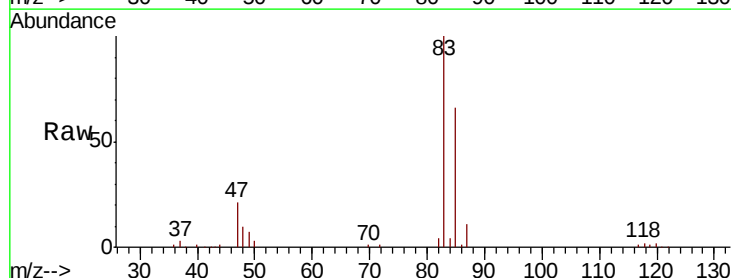


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 57.00 (56.70 to 57.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

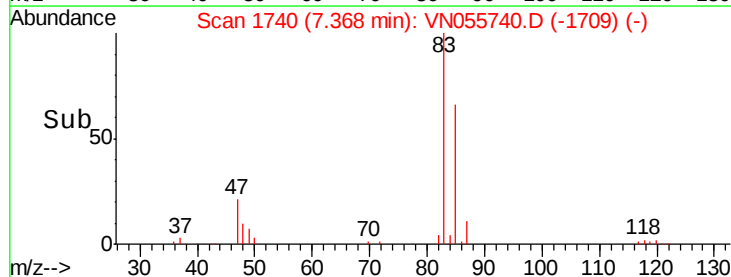
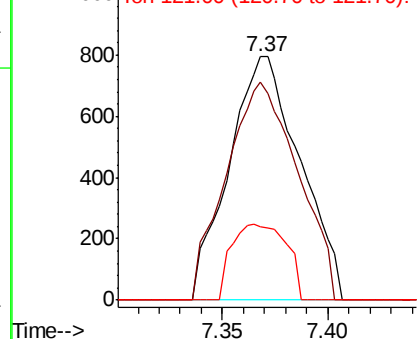


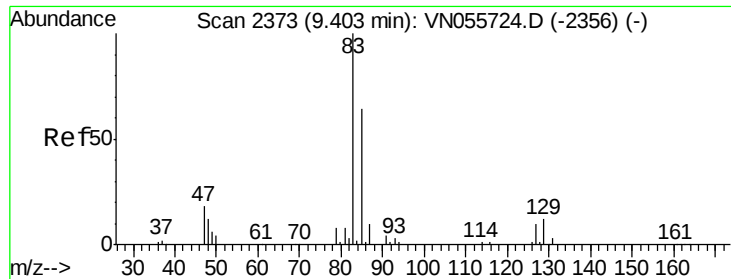
#33
Carbon Tetrachloride
Concen: 0.419 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.40 min
Lab File: VN055740.D
Acq: 23 May 2019 00:52

Tgt Ion: 117 Resp: 1865
Ion Ratio Lower Upper
117 100
119 89.4 75.8 113.8
121 29.9 25.4 38.0



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V





#41

Bromodichloromethane

Concen: 4.606 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055740.D

Acq: 23 May 2019 00:52

Instrument :

MSVOA_N

ClientSampled :

14B-4

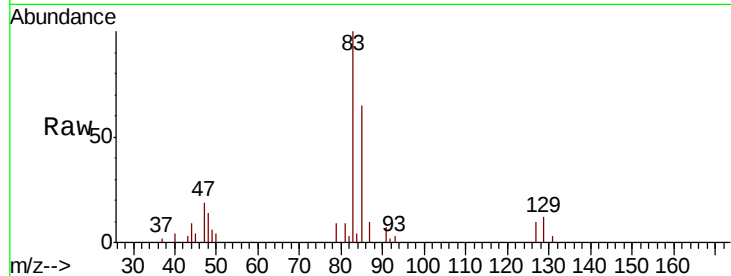
Tot Ion: 83 Resp: 21245

Ion Ratio Lower Upper

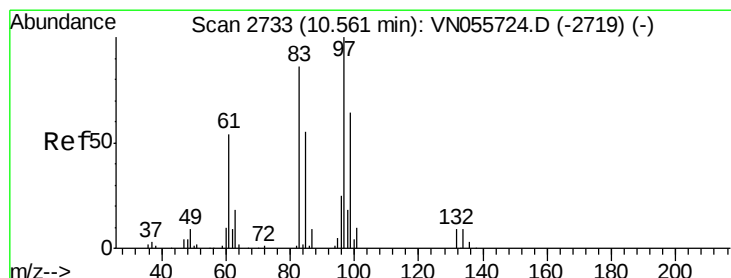
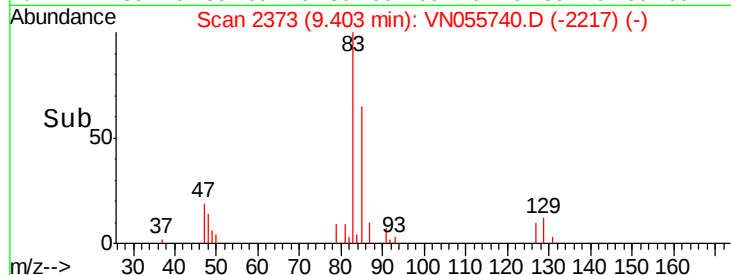
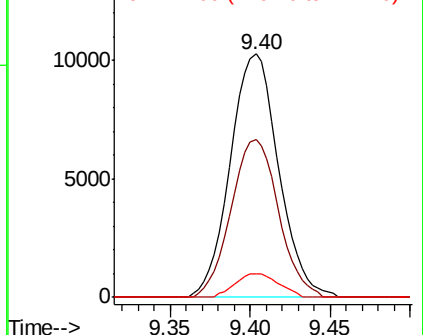
83 100

85 64.8 51.4 77.0

127 9.8 7.7 11.5



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: 2.966 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055740.D

Acq: 23 May 2019 00:52

Tgt Ion: 97 Resp: 9718

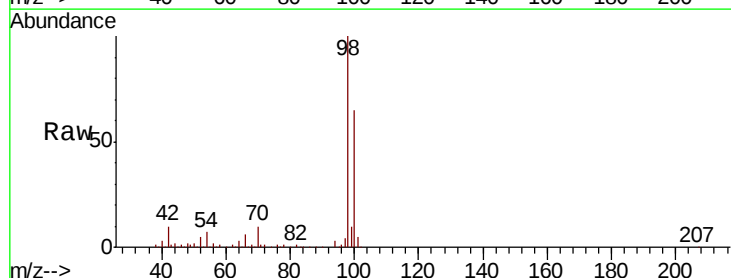
Ion Ratio Lower Upper

97 100

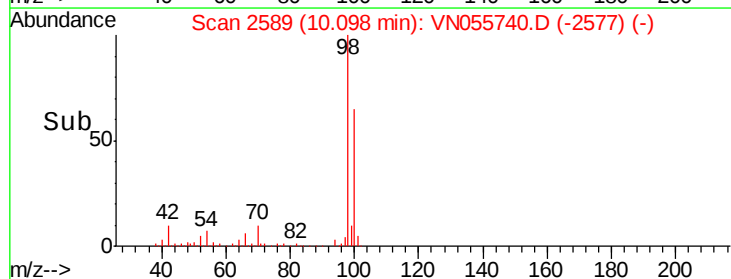
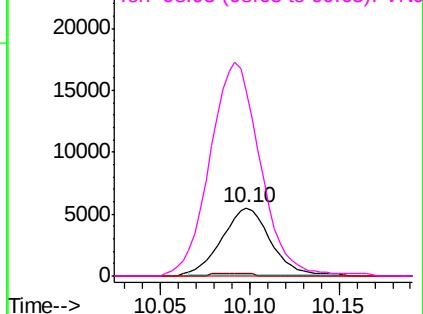
83 3.9 68.9 103.3#

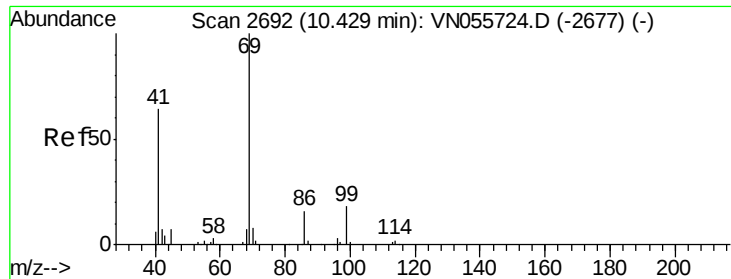
85 0.0 44.3 66.5#

99 276.5 51.4 77.0#



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





#51

Ethyl methacrylate

Concen: 0.212 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN055740.D

Acq: 23 May 2019 00:52

Instrument :

MSVOA_N

ClientSampled :

14B-4

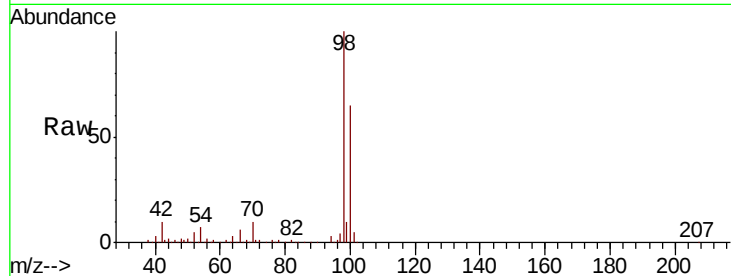
Tot Ion: 69 Resp: 1122

Ion Ratio Lower Upper

69 100

41 62.7 31.9 95.7

39 40.7 15.7 47.0



Abundance Ion 69.00 (68.70 to 69.70): VN055724.D (-2677) (-)

Ion 41.00 (40.70 to 41.70): VN055724.D (-2677) (-)

Ion 39.00 (38.70 to 39.70): VN055724.D (-2677) (-)

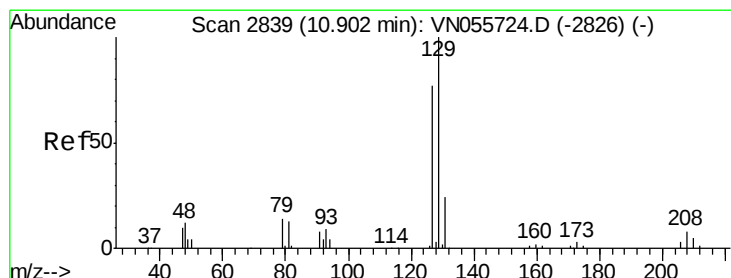
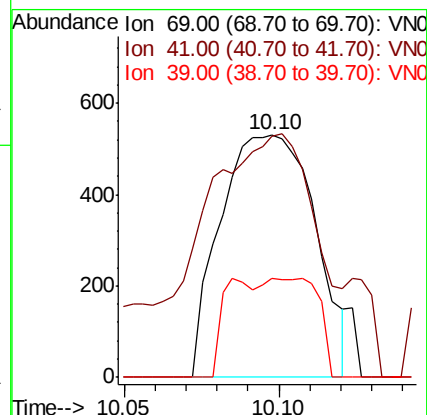
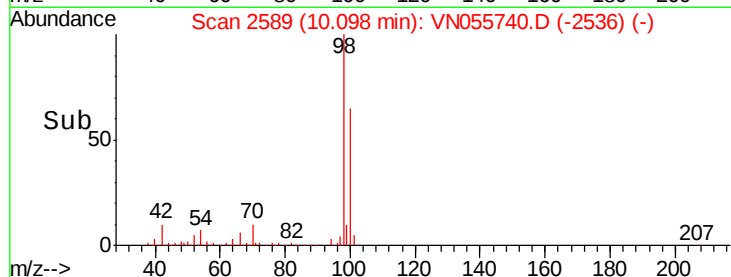
10.10

400

200

0

Time-->



#53

Dibromochloromethane

Concen: 0.406 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055740.D

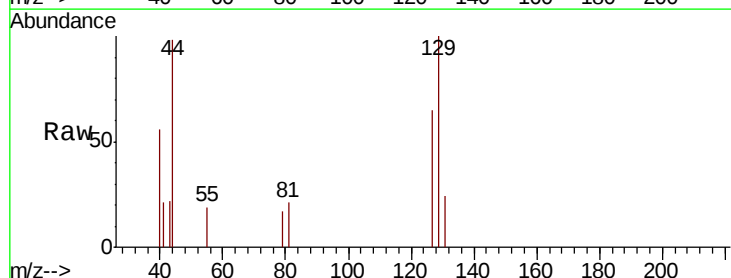
Acq: 23 May 2019 00:52

Tgt Ion: 129 Resp: 1572

Ion Ratio Lower Upper

129 100

127 72.6 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): VN055724.D (-2826) (-)

Ion 127.00 (126.70 to 127.70): VN055724.D (-2826) (-)

10.90

1000

800

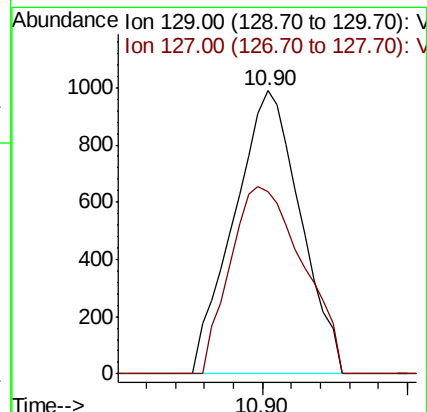
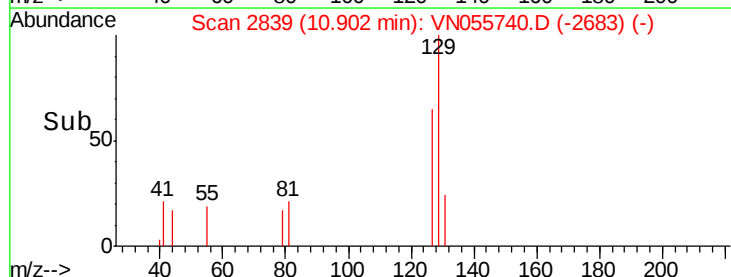
600

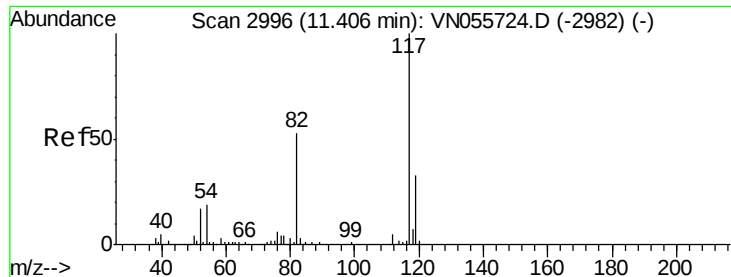
400

200

0

Time-->

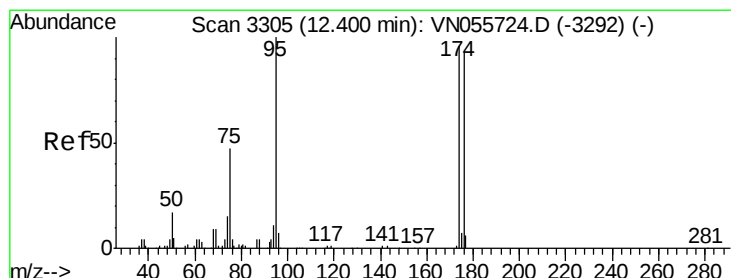
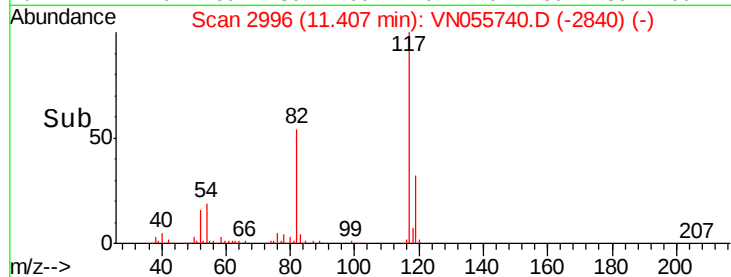
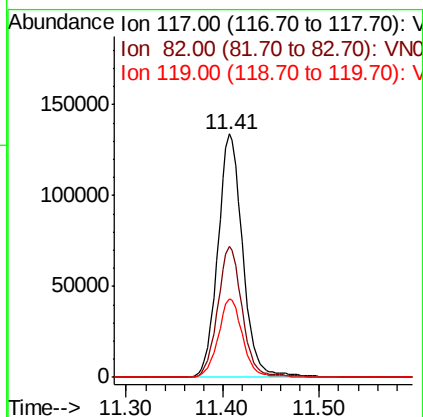
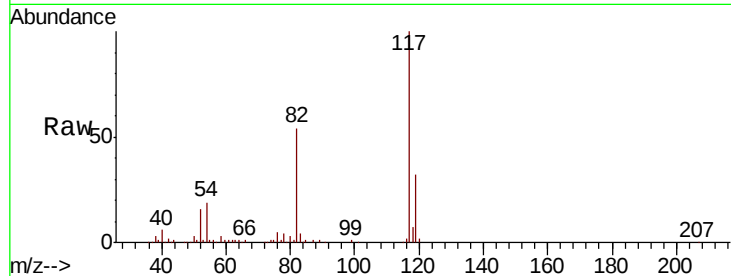




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055740.D
Acq: 23 May 2019 00:52

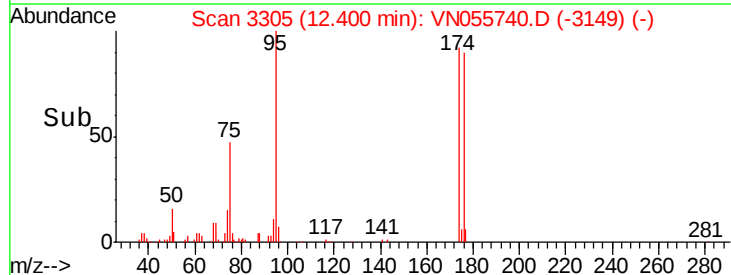
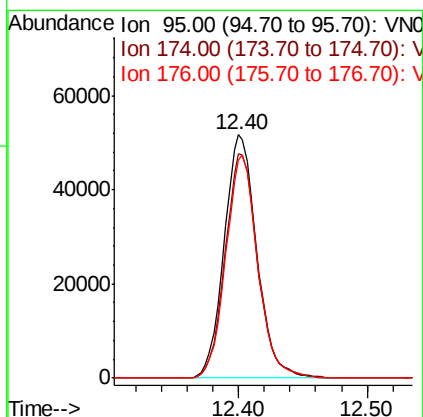
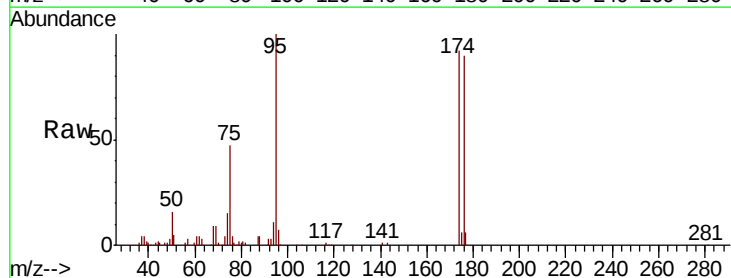
Instrument :
MSVOA_N
ClientSampleId :
14B-4

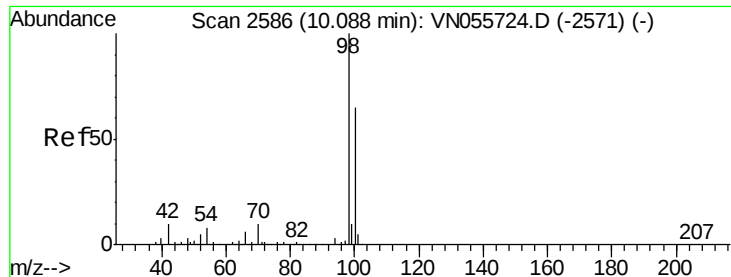
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.3	42.6	64.0
119	31.5	25.9	38.9



#60
4-Bromofluorobenzene
Concen: 24.343 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055740.D
Acq: 23 May 2019 00:52

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.6	75.7	113.5
176	89.8	74.1	111.1





#63

Toluene-d8

Concen: 31.813 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055740.D

Acq: 23 May 2019 00:52

Instrument :

MSVOA_N

ClientSampleId :

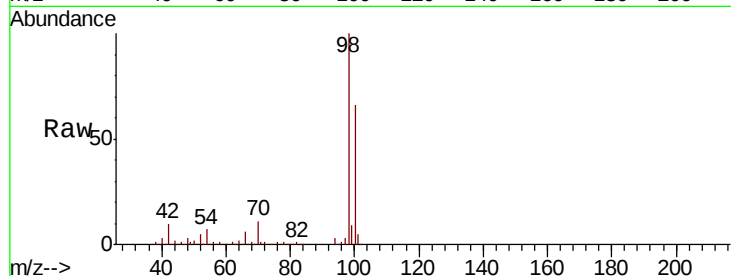
14B-4

Tot Ion: 98 Resp: 346818

Ion Ratio Lower Upper

98 100

100 65.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

200000

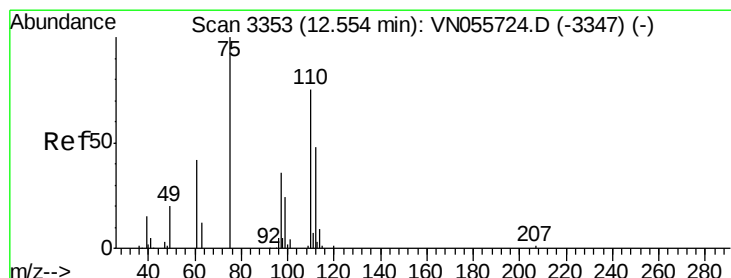
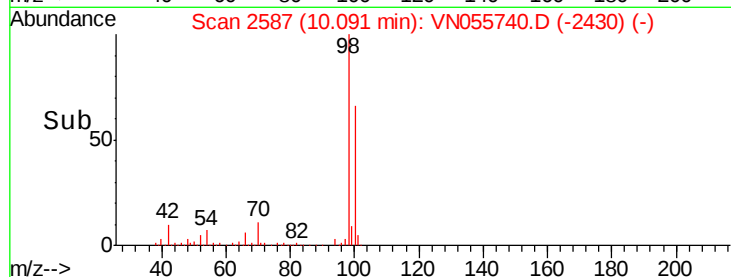
150000

100000

50000

0

Time-->



#72

1,2,3-Trichloropropane

Concen: 11.511 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055740.D

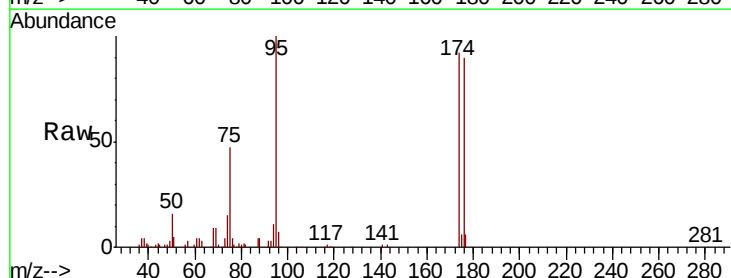
Acq: 23 May 2019 00:52

Tgt Ion: 75 Resp: 42032

Ion Ratio Lower Upper

75 100

77 0.7 0.0 349.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

25000

20000

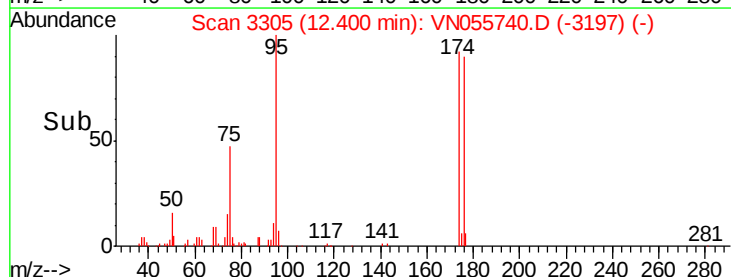
15000

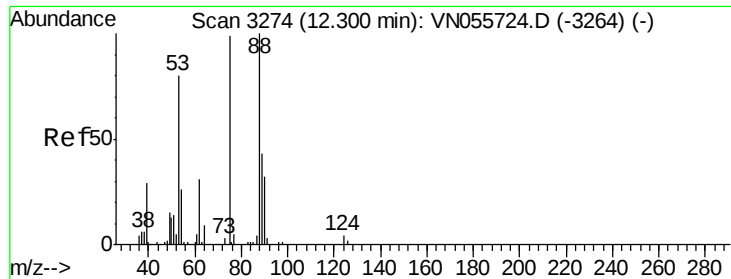
10000

5000

0

Time-->





#77
t-1,4-Dichloro-2-butene
Concen: 28.978 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN055740.D
Acq: 23 May 2019 00:52

Instrument :
MSVOA_N
ClientSampleId :
14B-4

Tot Ion: 75 Resp: 42032
Ion Ratio Lower Upper
75 100
53 0.0 40.1 120.3#
89 0.0 22.6 67.8#

