

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055734.D
 Acq On : 22 May 2019 22:22
 Operator : JC/SP
 Sample : K2980-03 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-3

Quant Time: May 23 06:04:51 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	57695	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	300549	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	241429	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	114471	30.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.17%
60) 4-Bromofluorobenzene	12.40	95	94570	25.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	83.93%
63) Toluene-d8	10.09	98	353415	32.03	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.77%

Target Compounds

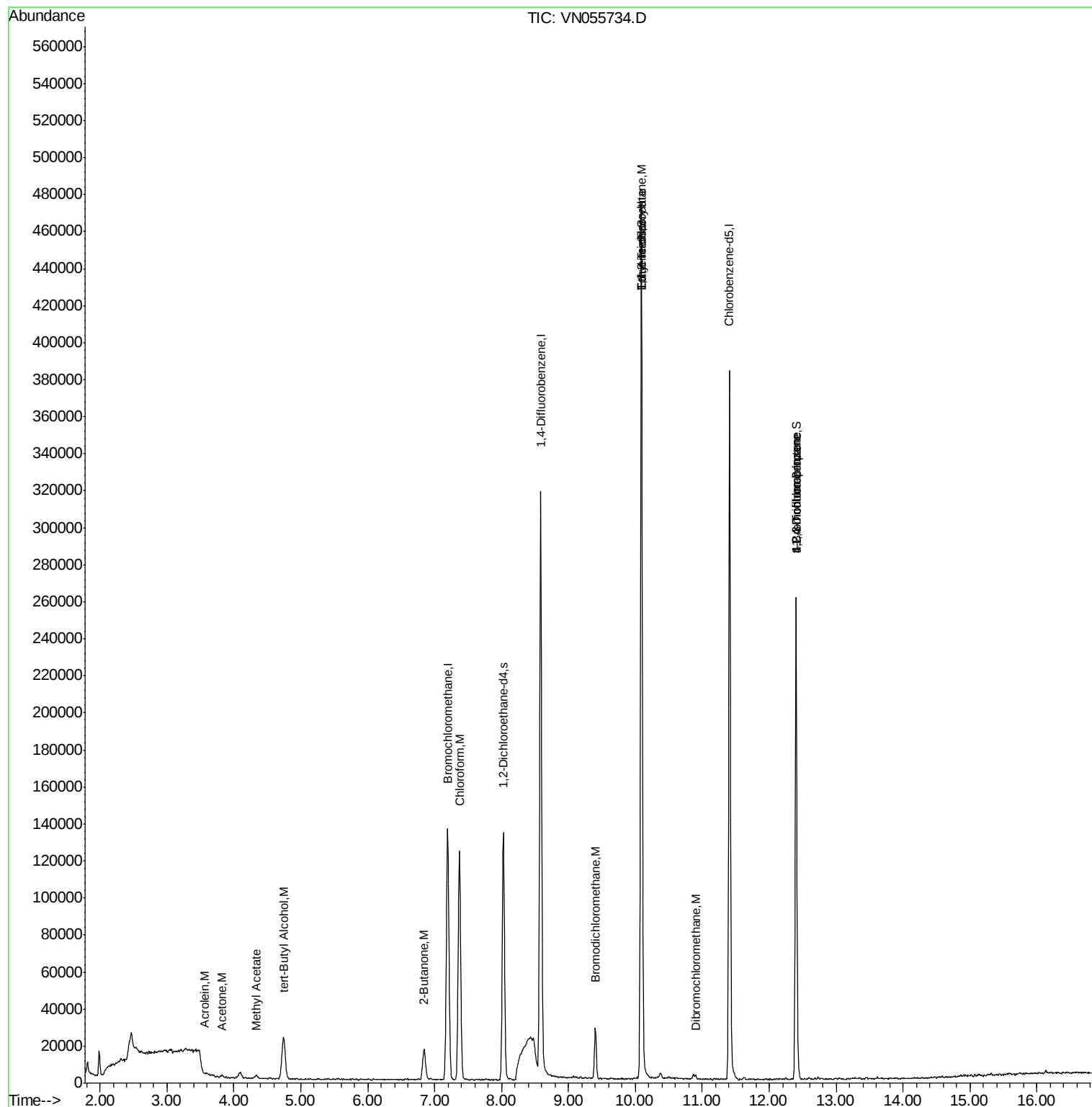
					Ovalue	
12) Methyl Acetate	4.34	43	3355	0.901	ug/l	91
13) Acrolein	3.56	56	190	0.367	ug/l	86
15) Acetone	3.82	58	455	0.863	ug/l #	1
23) tert-Butyl Alcohol	4.74	59	21578	28.935	ug/l #	100
25) Chloroform	7.37	83	136476	22.979	ug/l	100
30) 2-Butanone	6.84	43	606	0.270	ug/l #	59
41) Bromodichloromethane	9.40	83	20080	4.345	ug/l	98
50) 1,1,2-Trichloroethane	10.10	97	9987	3.042	ug/l #	1
51) Ethyl methacrylate	10.09	69	1256	0.237	ug/l	77
53) Dibromochloromethane	10.90	129	1573	0.406	ug/l	95
72) 1,2,3-Trichloropropane	12.40	75	42892	11.606	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	42892	29.219	ug/l #	17

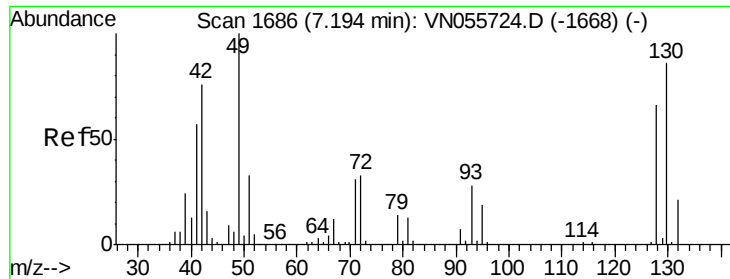
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :
14B-3

Quant Time: May 23 06:04:51 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: VN055734.D

Acq: 22 May 2019 22:22

Instrument :

MSVOA_N

ClientSampled :

14B-3

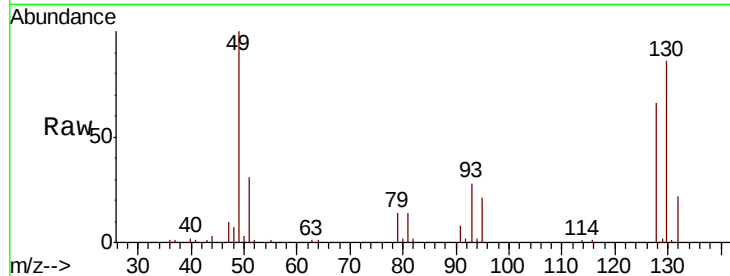
Tot Ion:128 Resp: 57695

Ion Ratio Lower Upper

128 100

49 148.7 0.0 383.2

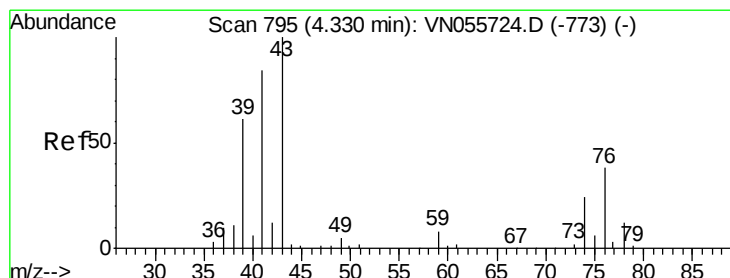
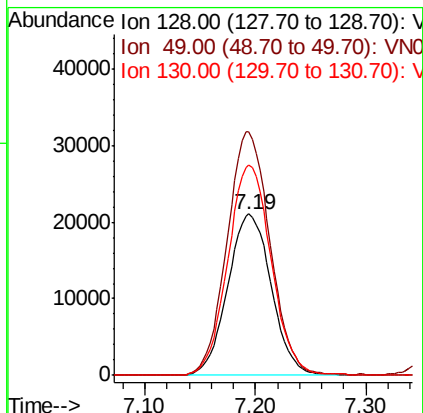
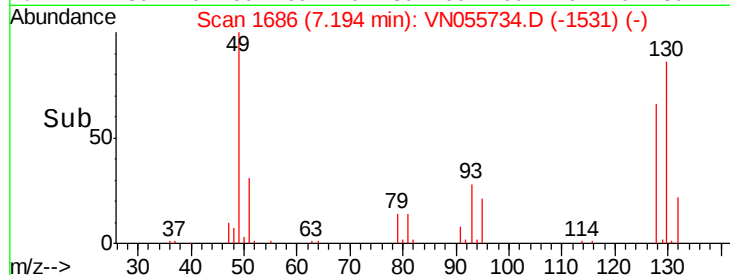
130 129.4 0.0 326.3



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: 0.901 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN055734.D

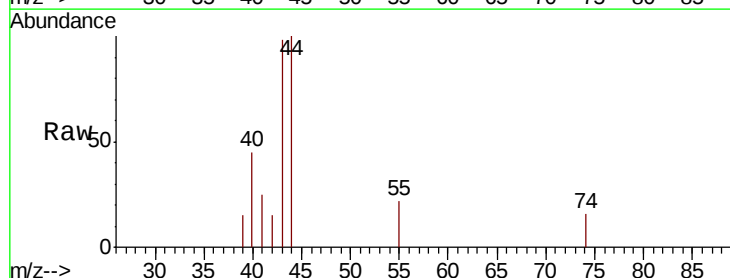
Acq: 22 May 2019 22:22

Tgt Ion: 43 Resp: 3355

Ion Ratio Lower Upper

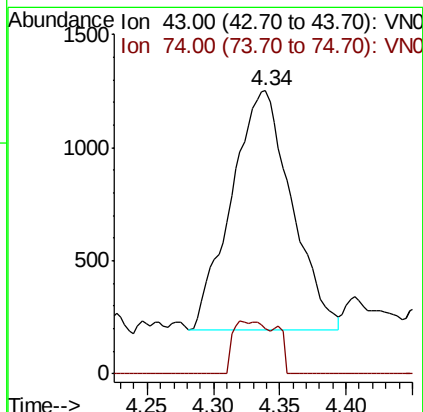
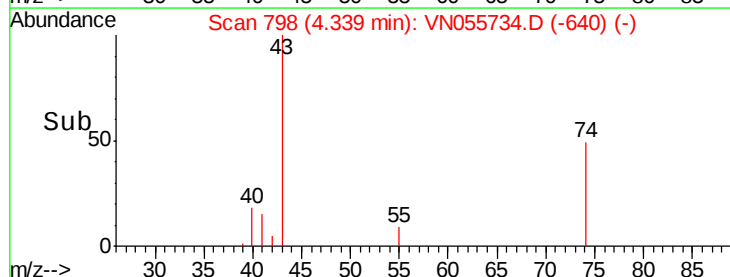
43 100

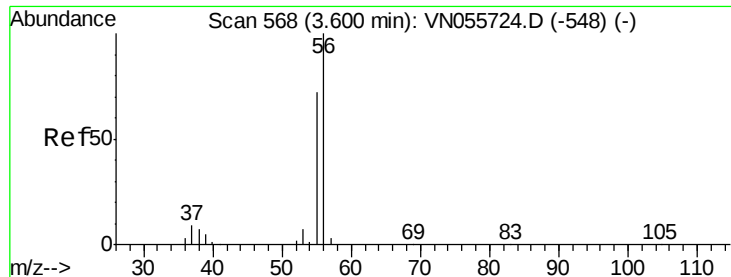
74 19.5 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 74.00 (73.70 to 74.70): VN





#13

Acrolein

Concen: 0.367 ug/l

RT: 3.56 min Scan# 557

Delta R.T. -0.04 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

Instrument :

MSVOA_N

ClientSampled :

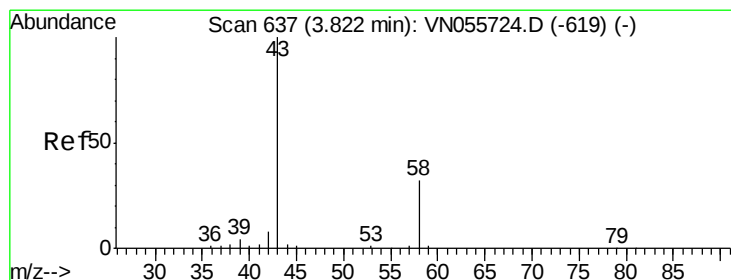
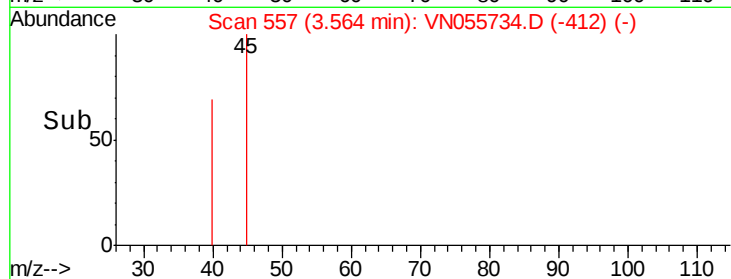
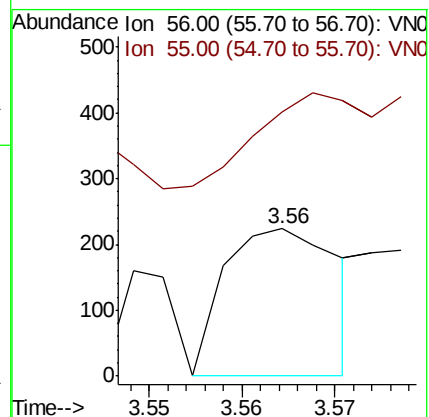
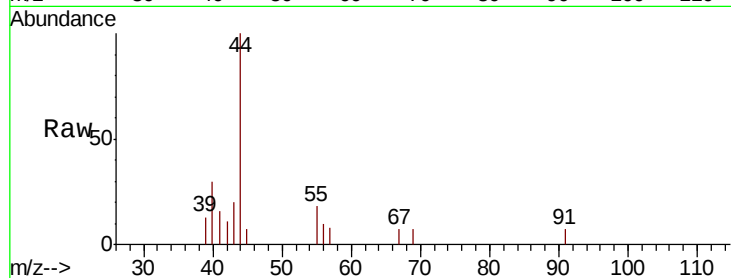
14B-3

Tot Ion: 56 Resp: 190

Ion Ratio Lower Upper

56 100

55 60.0 57.0 85.6



#15

Acetone

Concen: 0.863 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN055734.D

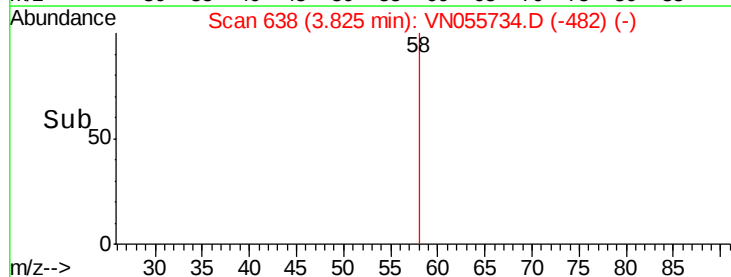
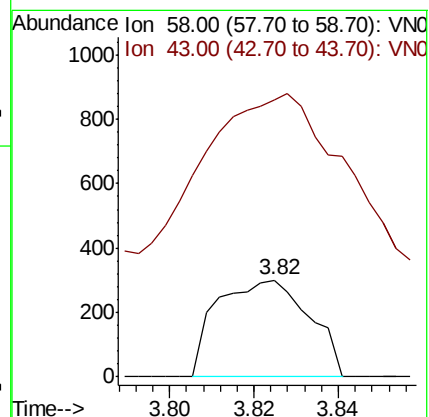
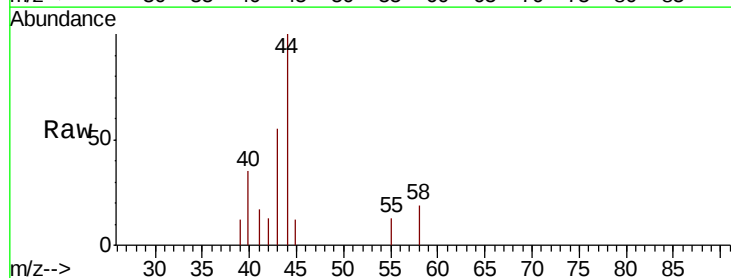
Acq: 22 May 2019 22:22

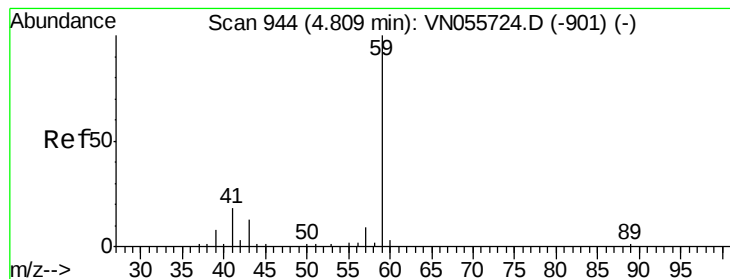
Tgt Ion: 58 Resp: 455

Ion Ratio Lower Upper

58 100

43 78.7 248.8 373.2#





#23

tert-Butyl Alcohol

Concen: 28.935 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

Instrument :

MSVOA_N

ClientSampled :

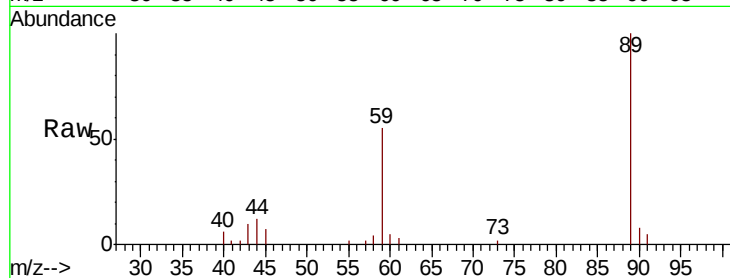
14B-3

Tot Ion: 59 Resp: 21578

Ion Ratio Lower Upper

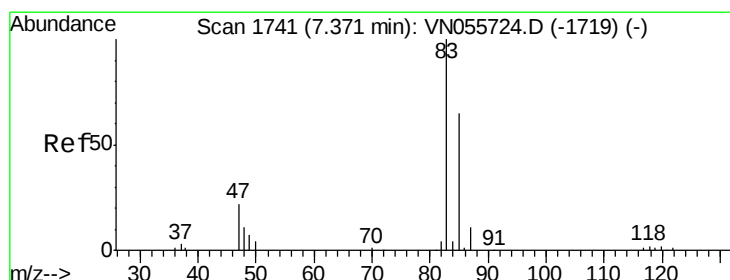
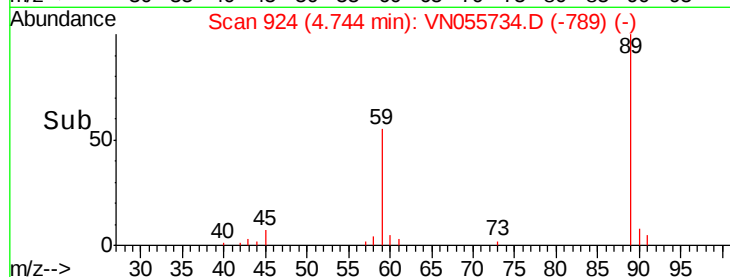
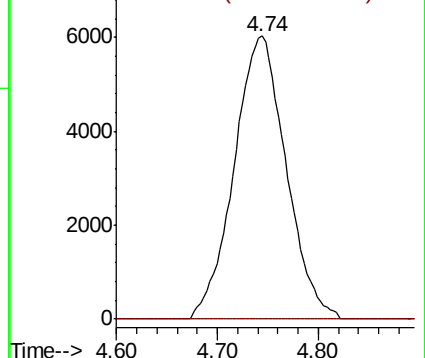
59 100

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: 22.979 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VN055734.D

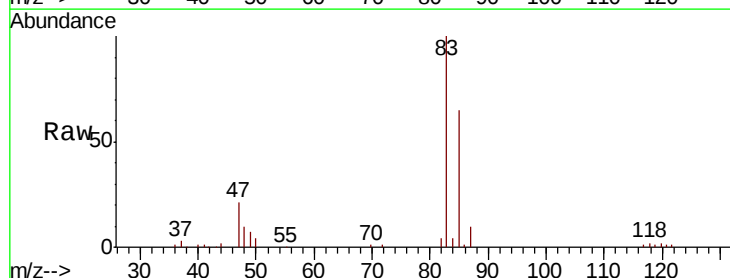
Acq: 22 May 2019 22:22

Tgt Ion: 83 Resp: 136476

Ion Ratio Lower Upper

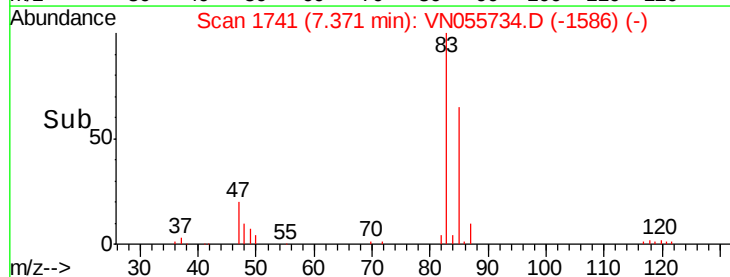
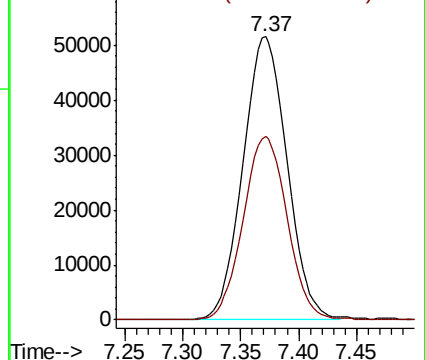
83 100

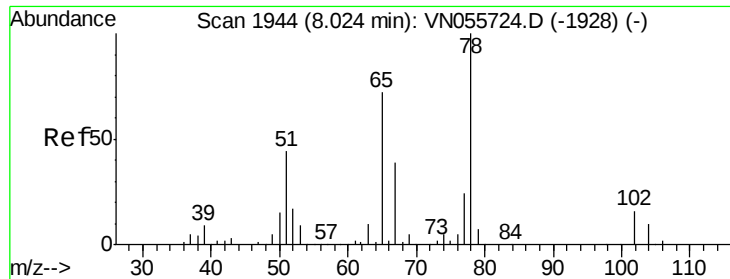
85 64.9 51.7 77.5



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: 30.355 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

Instrument :

MSVOA_N

ClientSampled :

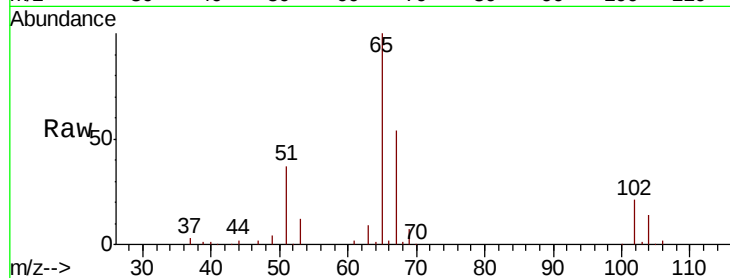
14B-3

Tot Ion: 65 Resp: 114471

Ion Ratio Lower Upper

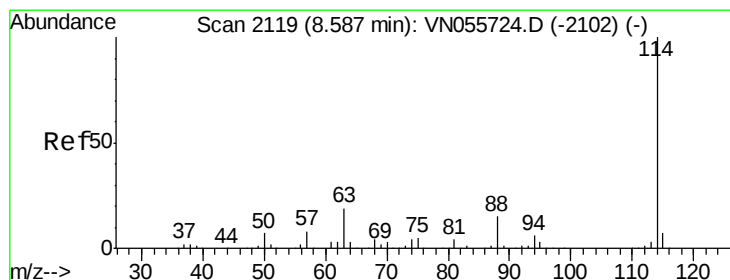
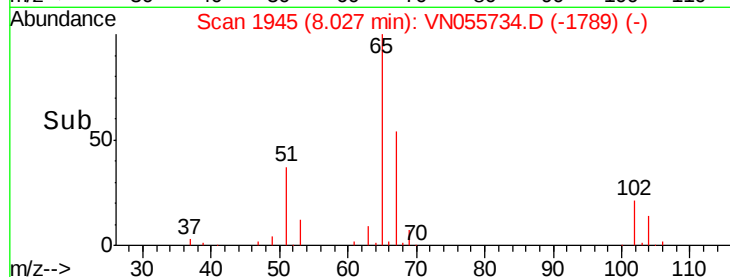
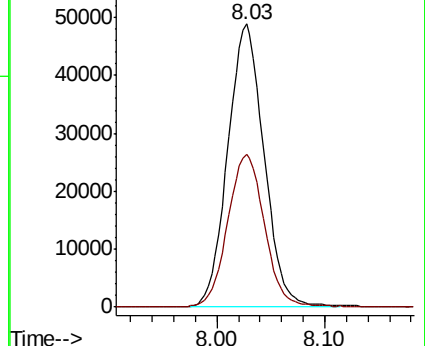
65 100

67 54.7 43.5 65.3



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: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

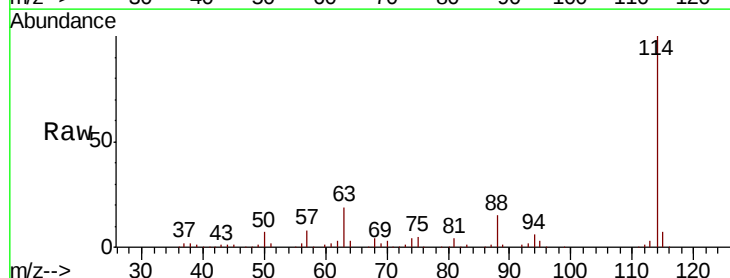
Tgt Ion: 114 Resp: 300549

Ion Ratio Lower Upper

114 100

63 19.3 15.6 23.4

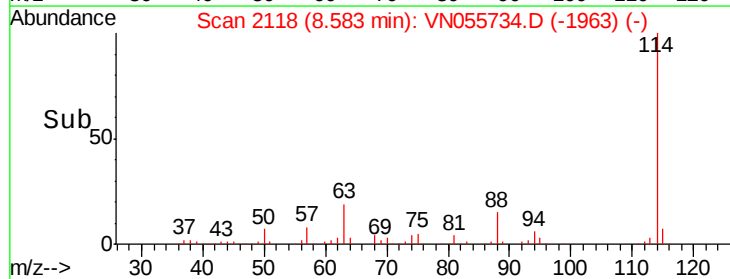
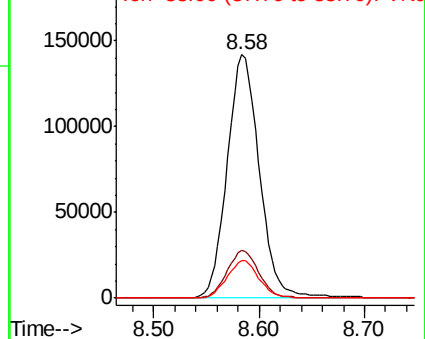
88 15.5 12.3 18.5

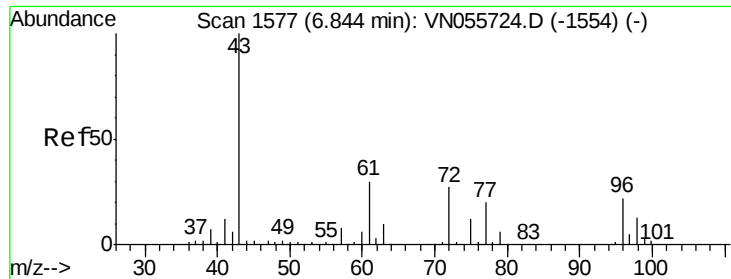


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 88.00 (87.70 to 88.70): VN0

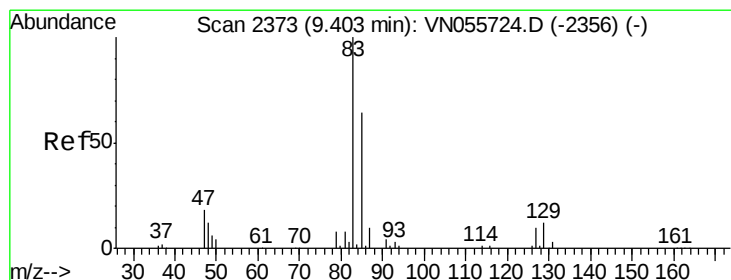
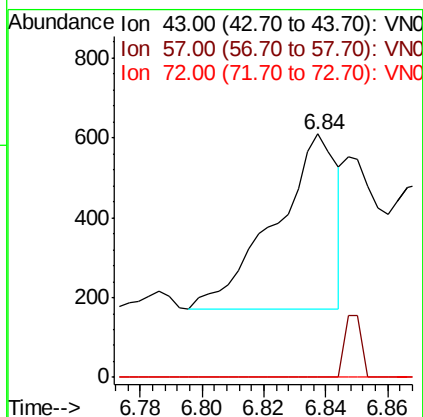
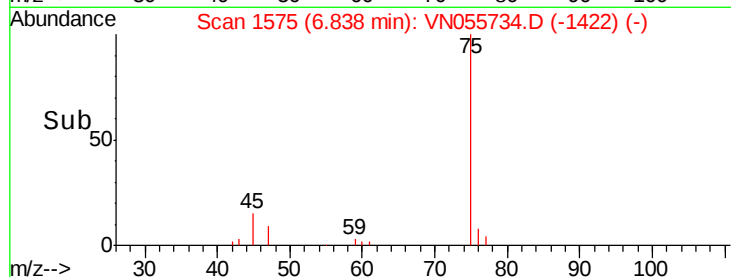
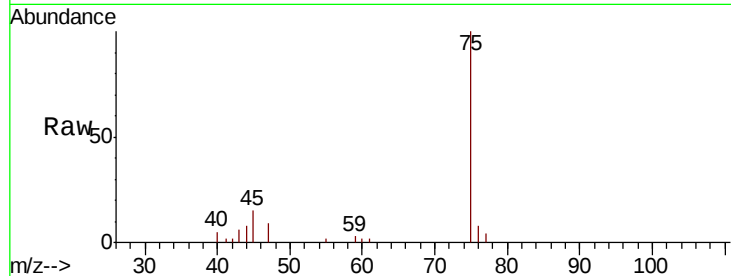




#30
2-Butanone
Concen: 0.270 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.01 min
Lab File: VN055734.D
Acq: 22 May 2019 22:22

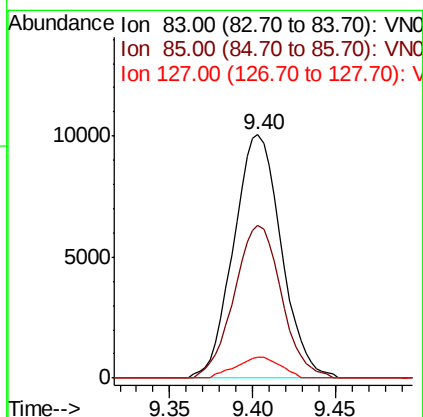
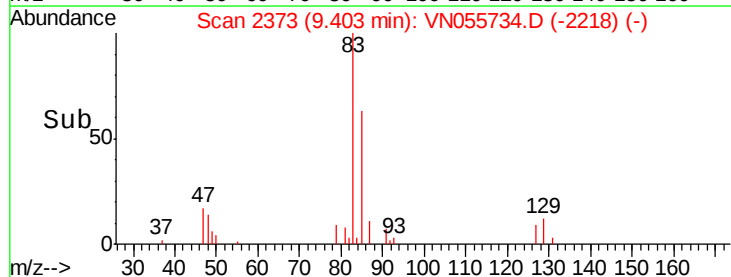
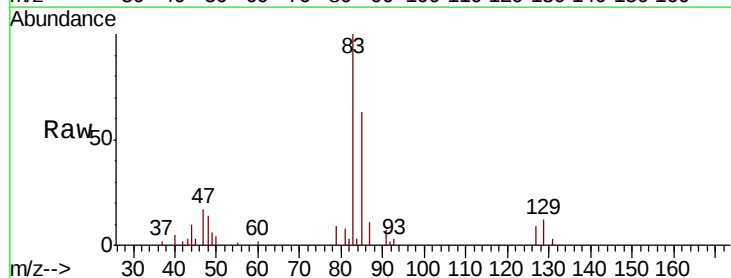
Instrument :
MSVOA_N
ClientSampleId :
14B-3

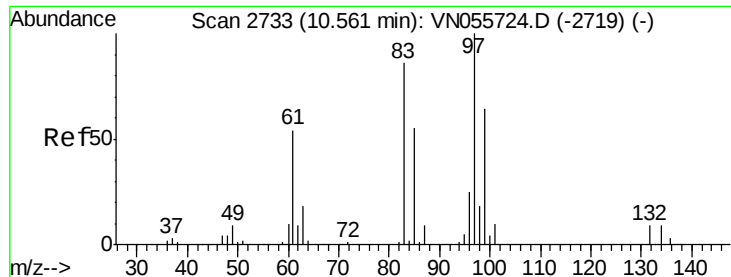
Tot Ion: 43 Resp: 606
Ion Ratio Lower Upper
43 100
57 9.9 6.6 10.0
72 0.0 21.7 32.5#



#41
Bromodichloromethane
Concen: 4.345 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN055734.D
Acq: 22 May 2019 22:22

Tgt Ion: 83 Resp: 20080
Ion Ratio Lower Upper
83 100
85 62.7 51.4 77.0
127 8.5 7.7 11.5





#50

1,1,2-Trichloroethane

Concen: 3.042 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

Instrument :

MSVOA_N

ClientSampled :

14B-3

Tot Ion: 97 Resp: 9987

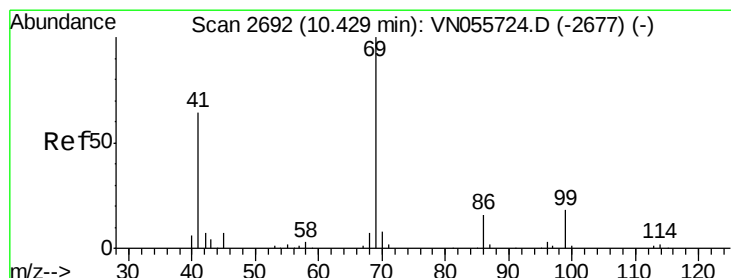
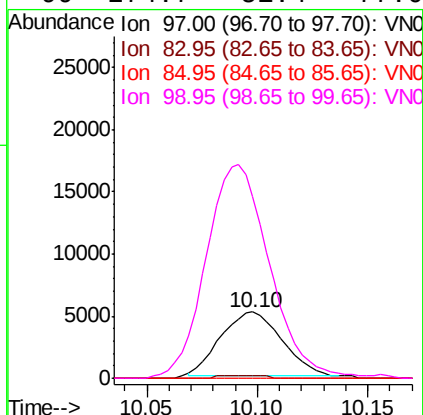
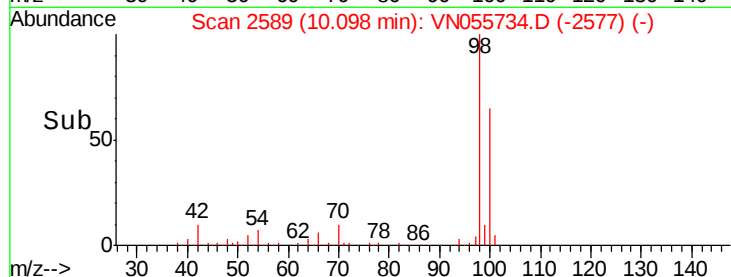
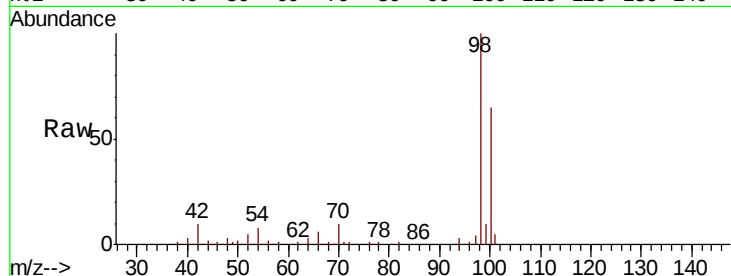
Ion Ratio Lower Upper

97 100

83 4.5 68.9 103.3#

85 0.0 44.3 66.5#

99 274.7 51.4 77.0#



#51

Ethyl methacrylate

Concen: 0.237 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

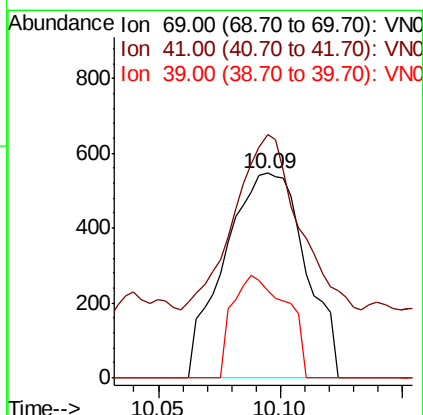
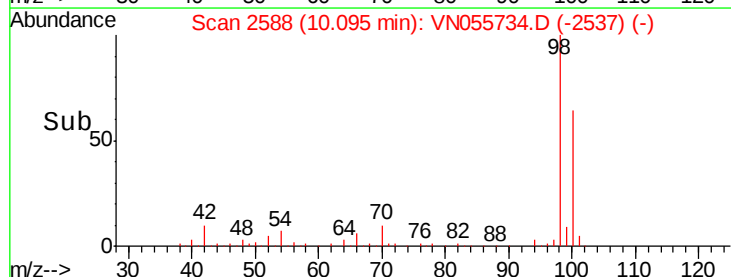
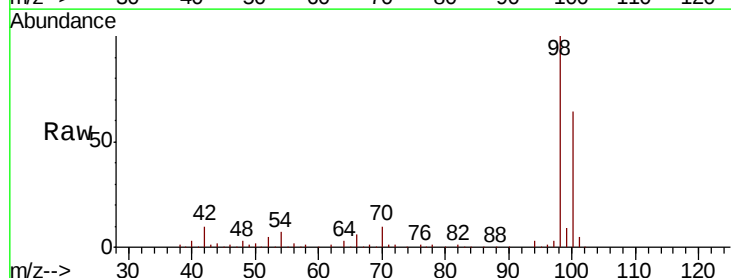
Tgt Ion: 69 Resp: 1256

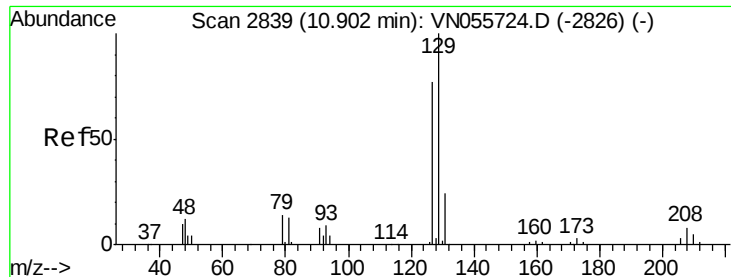
Ion Ratio Lower Upper

69 100

41 82.2 31.9 95.7

39 42.5 15.7 47.0





#53

Dibromochloromethane

Concen: 0.406 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

Instrument :

MSVOA_N

ClientSampleId :

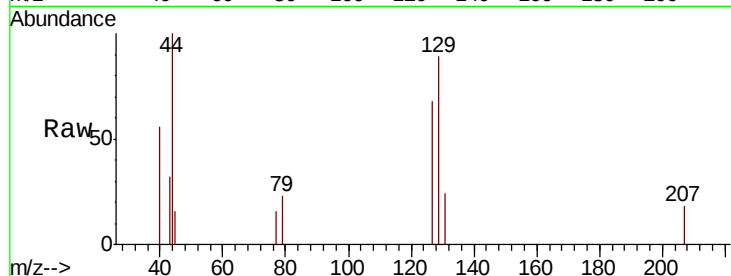
14B-3

Tot Ion:129 Resp: 1573

Ion Ratio Lower Upper

129 100

127 74.0 39.2 117.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.90

800

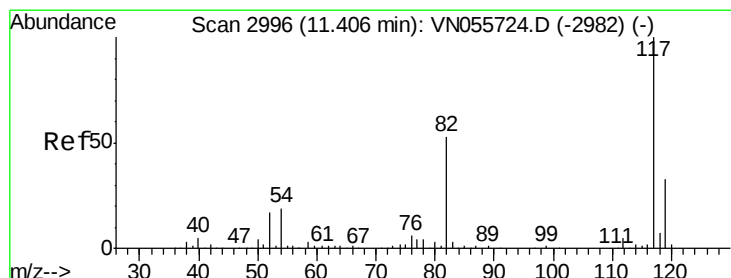
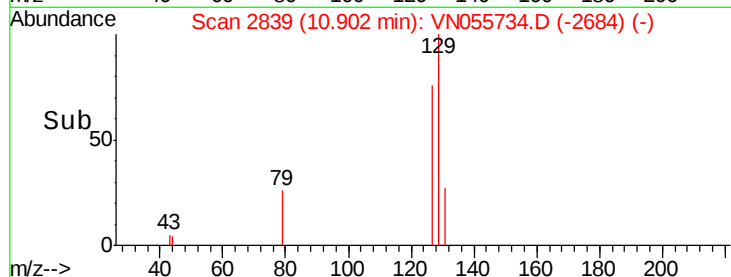
600

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: VN055734.D

Acq: 22 May 2019 22:22

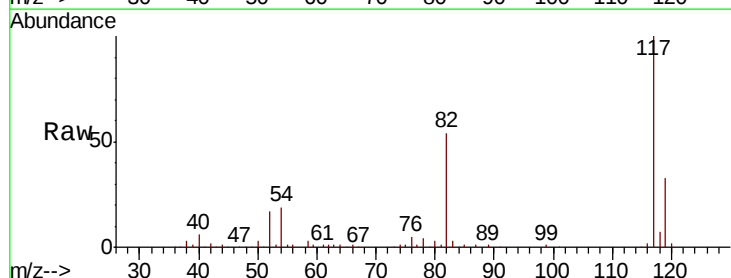
Tgt Ion:117 Resp: 241429

Ion Ratio Lower Upper

117 100

82 53.6 42.6 64.0

119 32.4 25.9 38.9



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

11.41

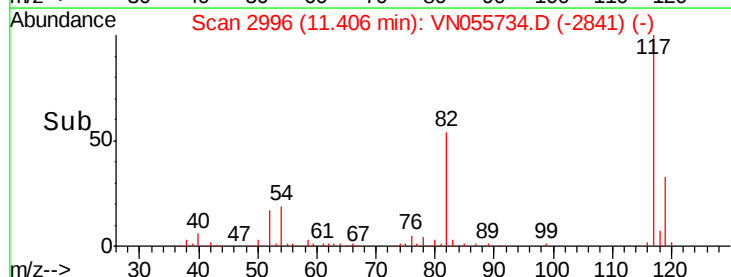
150000

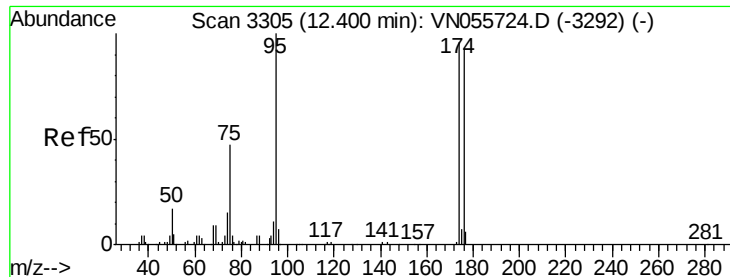
100000

50000

0

Time-->





#60

4-Bromofluorobenzene

Concen: 25.180 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

Instrument :

MSVOA_N

ClientSampleId :

14B-3

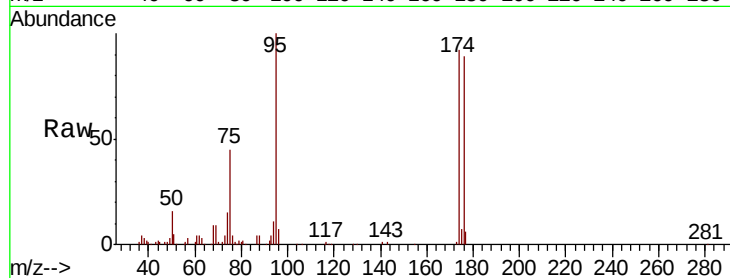
Tot Ion: 95 Resp: 94570

Ion Ratio Lower Upper

95 100

174 91.2 75.7 113.5

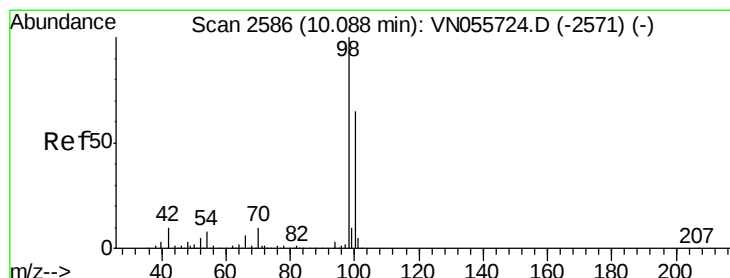
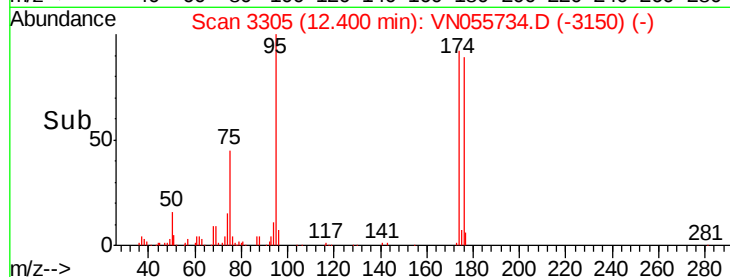
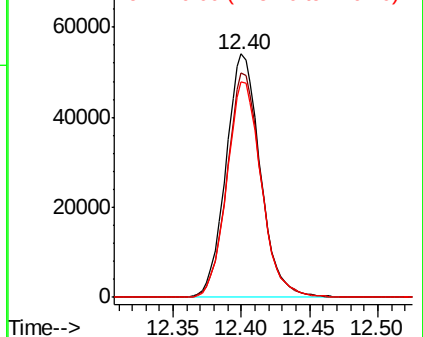
176 88.8 74.1 111.1



Abundance Ion 95.00 (94.70 to 95.70): VN055724.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN055724.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN055724.D (-3292) (-)



#63

Toluene-d8

Concen: 32.032 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055734.D

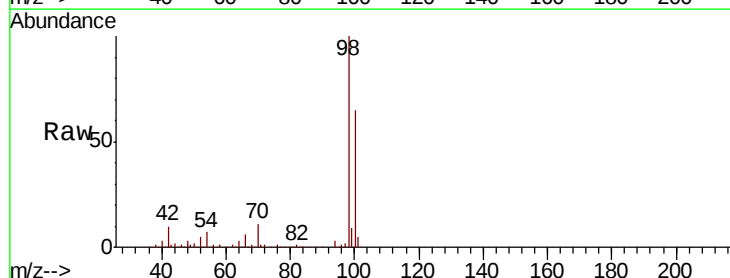
Acq: 22 May 2019 22:22

Tgt Ion: 98 Resp: 353415

Ion Ratio Lower Upper

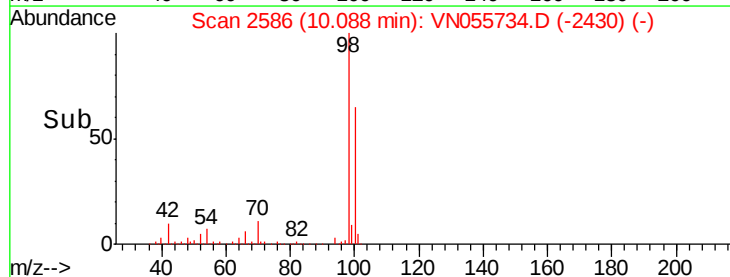
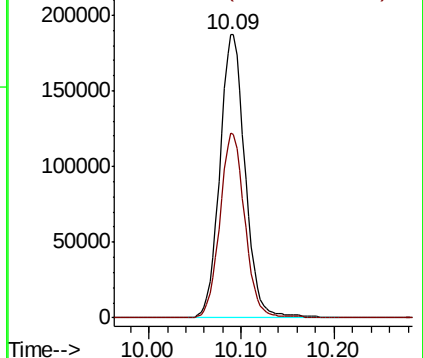
98 100

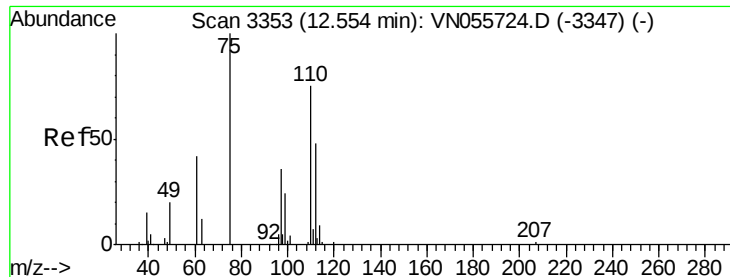
100 64.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN055724.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN055724.D (-2571) (-)





#72

1,2,3-Trichloropropane

Concen: 11.606 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

Instrument :

MSVOA_N

ClientSampled :

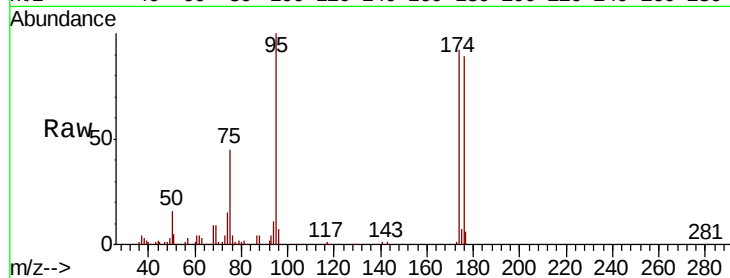
14B-3

Tot Ion: 75 Resp: 42892

Ion Ratio Lower Upper

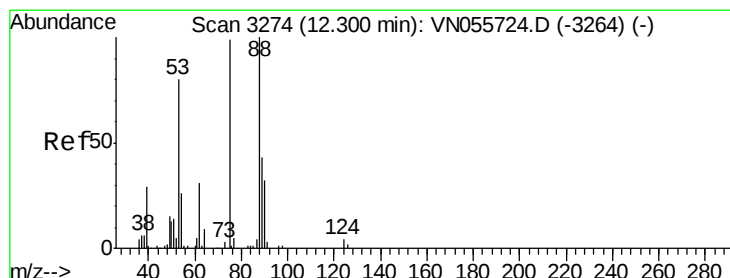
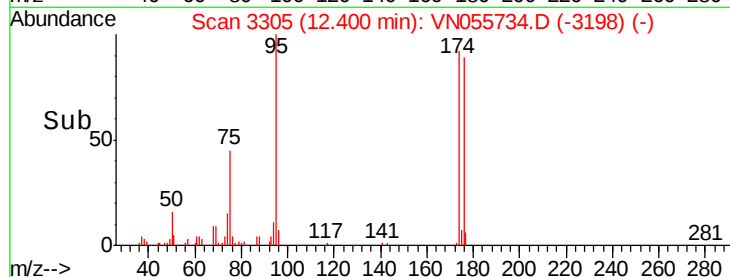
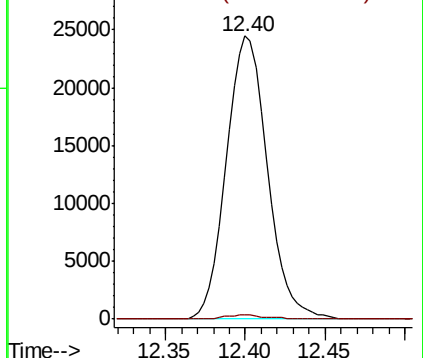
75 100

77 1.2 0.0 349.8



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 29.219 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055734.D

Acq: 22 May 2019 22:22

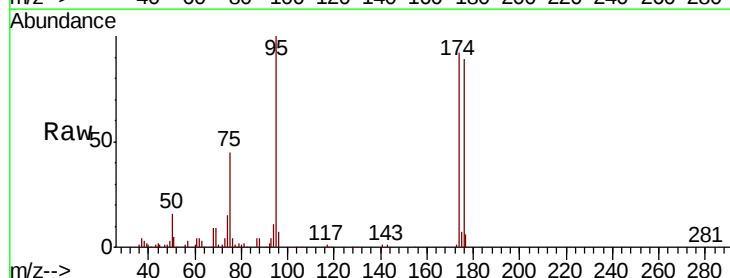
Tgt Ion: 75 Resp: 42892

Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

89 0.0 22.6 67.8#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

