

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN052419\
 Data File : VN055786.D
 Acq On : 24 May 2019 11:07
 Operator : JC/SP
 Sample : K2968-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFFL-5B

Quant Time: May 24 12:59:47 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	60384	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	322307	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	259967	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	115527	29.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.57%
60) 4-Bromofluorobenzene	12.40	95	101585	25.12	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	83.73%
63) Toluene-d8	10.09	98	373622	31.45	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.83%

Target Compounds

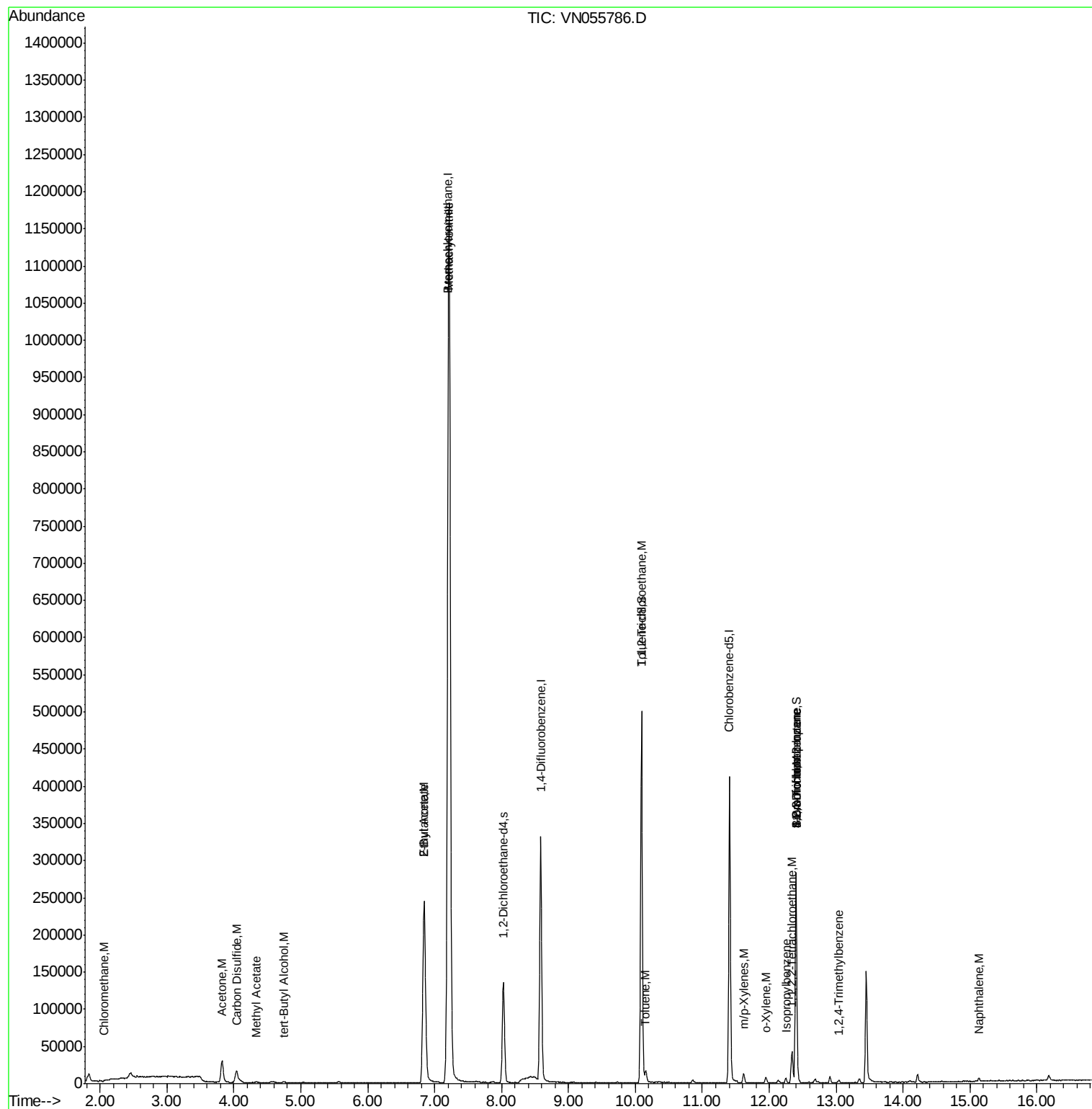
					Qvalue	
3) Chloromethane	2.06	50	766	0.203	ug/l	97
12) Methyl Acetate	4.33	43	895	0.230	ug/l #	51
15) Acetone	3.82	58	16103	29.175	ug/l	90
16) Carbon Disulfide	4.04	76	33865	3.706	ug/l	100
23) tert-Butyl Alcohol	4.74	59	809	1.037	ug/l #	100
30) 2-Butanone	6.84	43	449904	187.077	ug/l	100
35) Methacrylonitrile	7.22	41	530930	239.187	ug/l #	44
43) Ethyl Acetate	6.84	43	449904	95.174	ug/l #	100
50) 1,1,2-Trichloroethane	10.10	97	10992	3.122	ug/l #	1
56) Bromoform	12.40	173	721	0.211	ug/l #	1
62) Toluene	10.16	91	10817	0.774	ug/l	98
67) m/p-Xylenes	11.62	106	4591	0.791	ug/l	88
68) o-Xylene	11.95	106	2198	0.383	ug/l	98
70) Isopropylbenzene	12.25	105	5580	0.371	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.34	83	1899	0.411	ug/l #	25
72) 1,2,3-Trichloropropane	12.40	75	46424	11.666	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	46424	29.370	ug/l #	17
80) 1,2,4-Trimethylbenzene	13.04	105	2635	0.214	ug/l	93
91) Naphthalene	15.13	128	4639	0.501	ug/l #	89

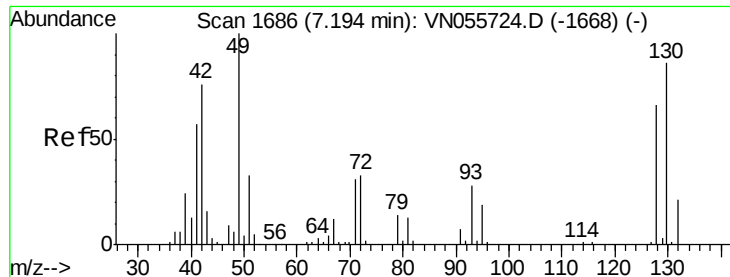
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN052419\
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Quant Time: May 24 12:59:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\624N052219W.M
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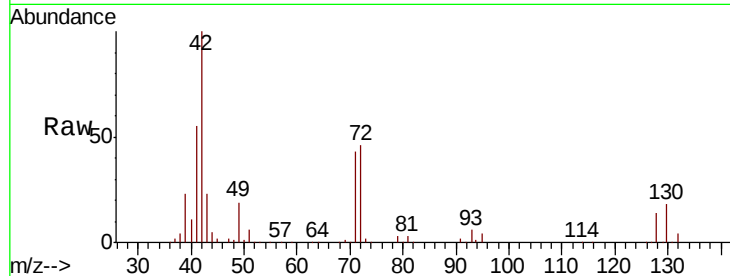




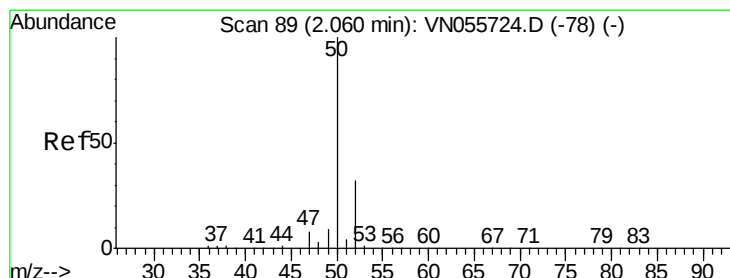
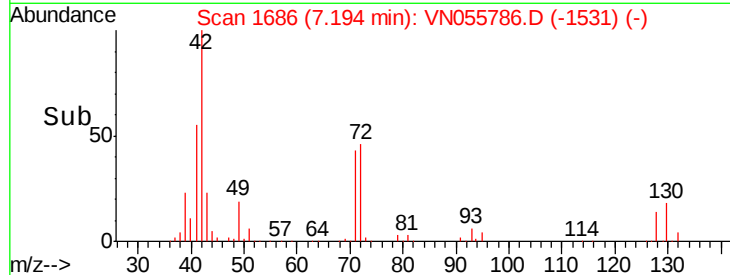
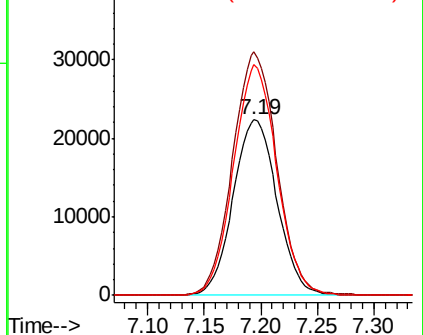
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN055786.D
 Acq: 24 May 2019 11:07

Instrument :
 MSVOA_N
 ClientSampled :
 EFFL-5B

Tgt Ion: 128 Resp: 60384
 Ion Ratio Lower Upper
 128 100
 49 139.6 0.0 383.2
 130 129.8 0.0 326.3

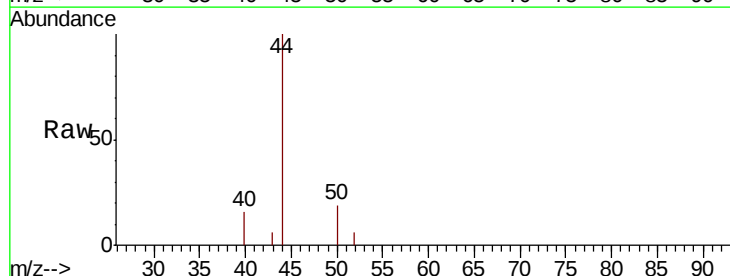


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

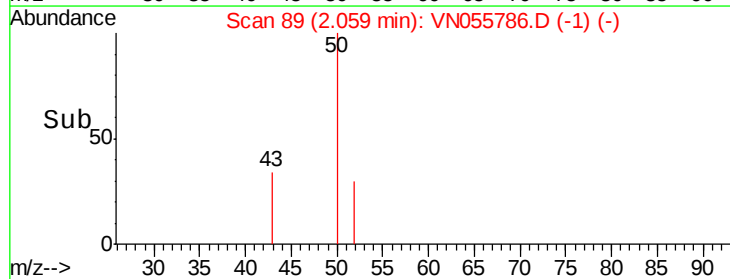
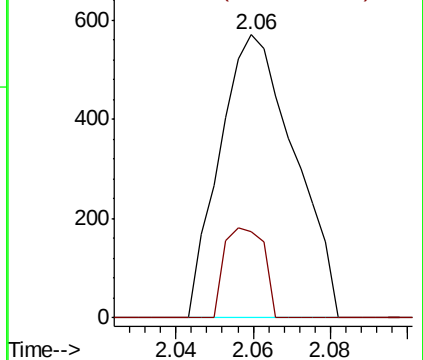


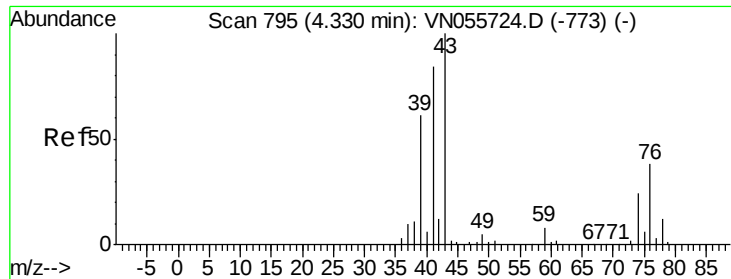
#3
 Chloromethane
 Concen: 0.203 ug/l
 RT: 2.06 min Scan# 89
 Delta R.T. -0.00 min
 Lab File: VN055786.D
 Acq: 24 May 2019 11:07

Tgt Ion: 50 Resp: 766
 Ion Ratio Lower Upper
 50 100
 52 30.4 25.4 38.2



Abundance Ion 50.00 (49.70 to 50.70): VN
 Ion 52.00 (51.70 to 52.70): VN

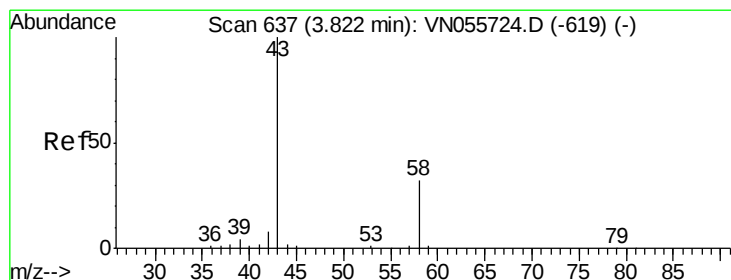
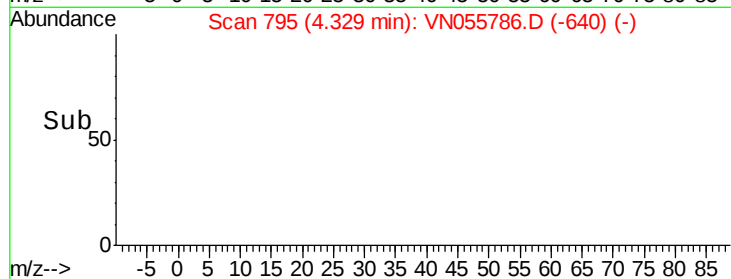
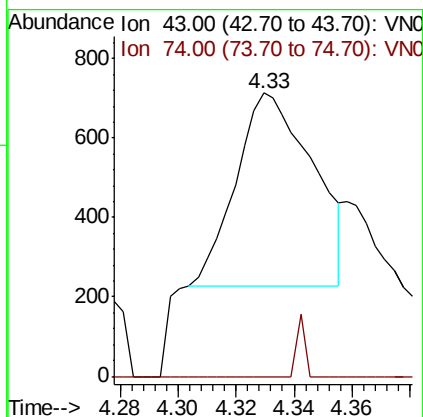
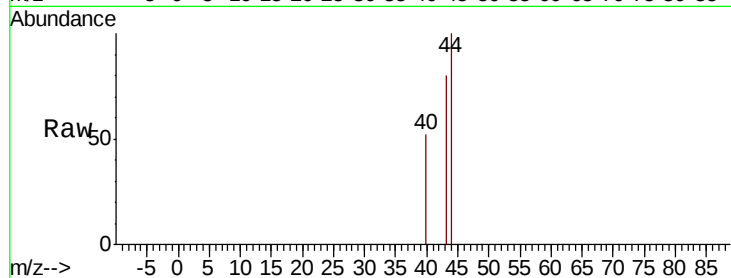




#12
Methyl Acetate
Concen: 0.230 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN055786.D
Acq: 24 May 2019 11:07

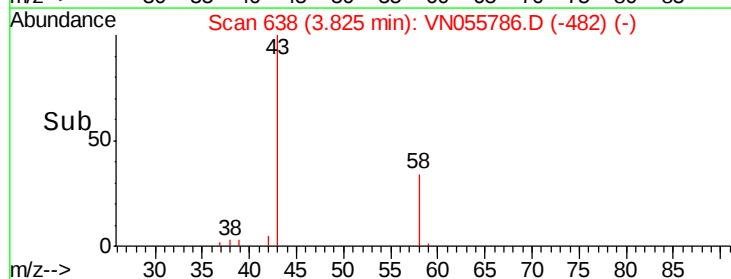
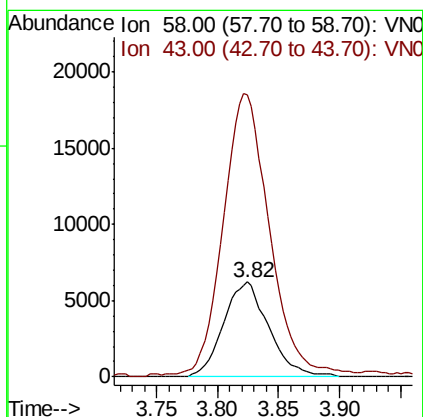
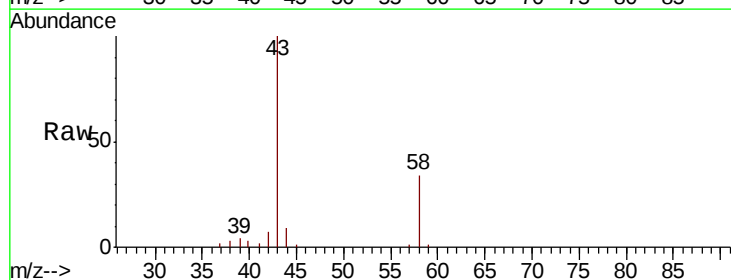
Instrument :
MSVOA_N
ClientSampled :
EFFL-5B

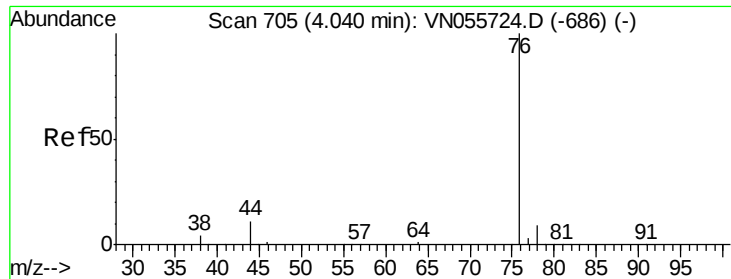
Tgt Ion: 43 Resp: 895
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#



#15
Acetone
Concen: 29.175 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.00 min
Lab File: VN055786.D
Acq: 24 May 2019 11:07

Tgt Ion: 58 Resp: 16103
Ion Ratio Lower Upper
58 100
43 290.9 248.8 373.2





#16

Carbon Disulfide

Concen: 3.706 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN055786.D

Acq: 24 May 2019 11:07

Instrument :

MSVOA_N

ClientSampled :

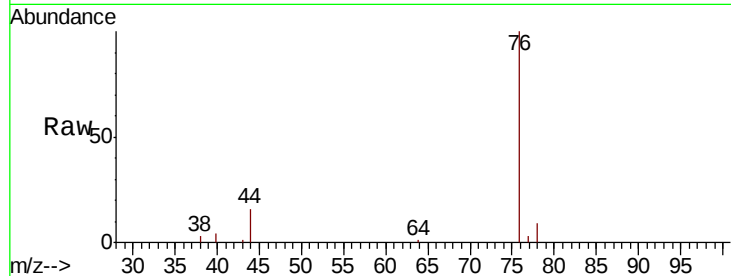
EFFL-5B

Tgt Ion: 76 Resp: 33865

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN055724.D (-686) (-)

Ion 78.00 (77.70 to 78.70): VN055724.D (-686) (-)

4.04

15000

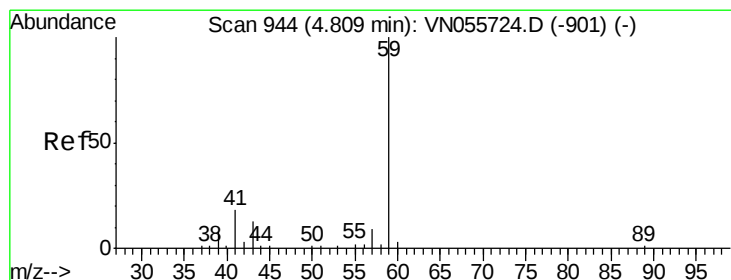
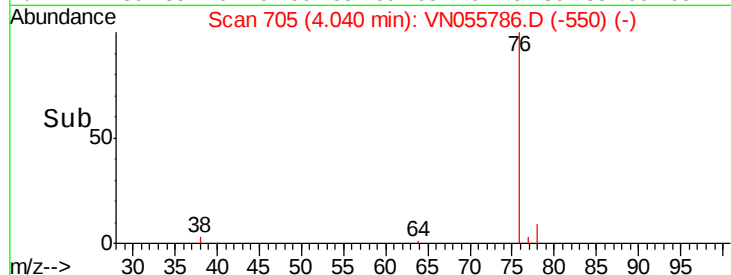
10000

5000

0

3.95 4.00 4.05 4.10

Time-->



#23

tert-Butyl Alcohol

Concen: 1.037 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN055786.D

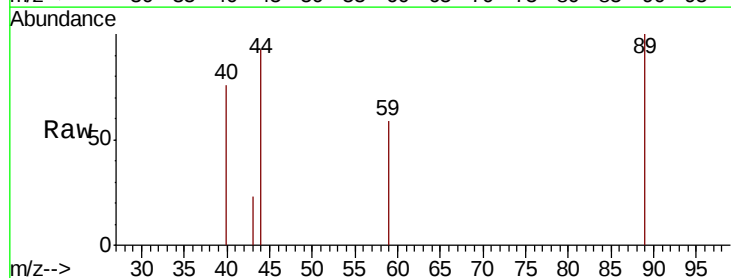
Acq: 24 May 2019 11:07

Tgt Ion: 59 Resp: 809

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) (-)

4.74

400

300

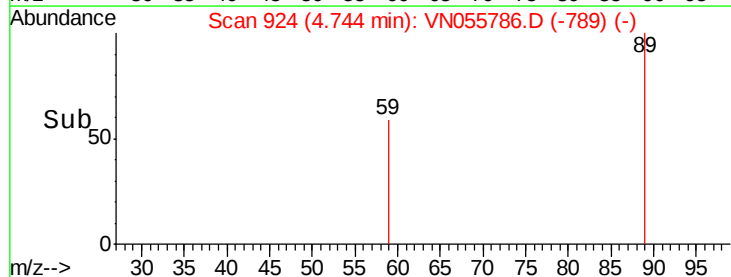
200

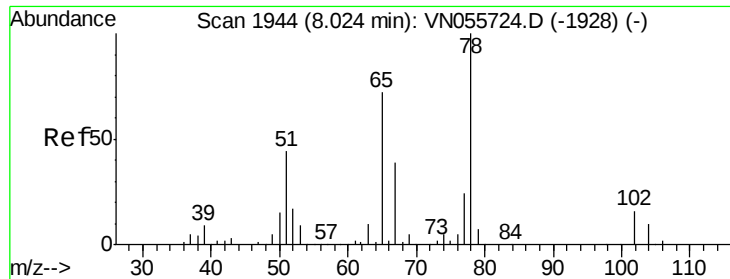
100

0

4.70 4.75

Time-->

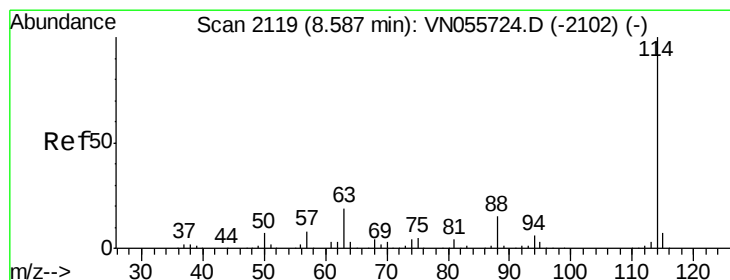
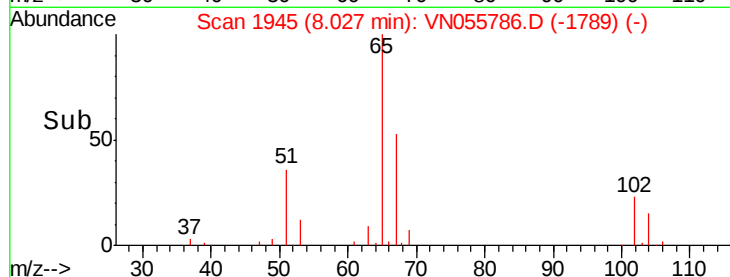
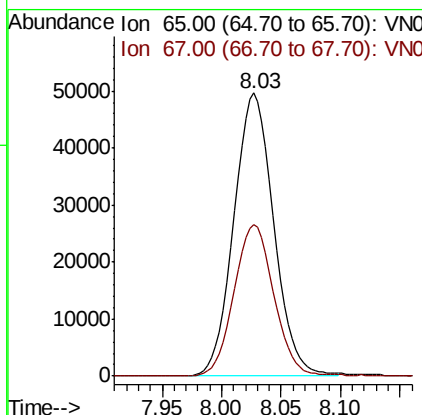
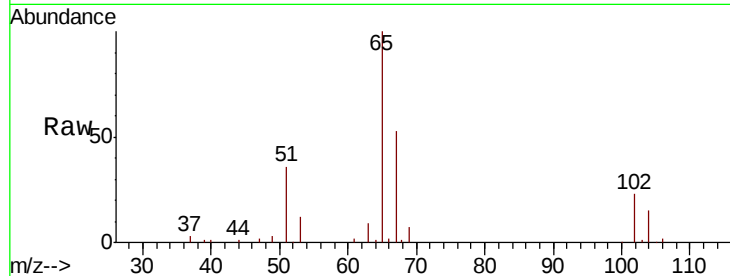




#27
 1,2-Dichloroethane-d4
 Concen: 29.270 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055786.D
 Acq: 24 May 2019 11:07

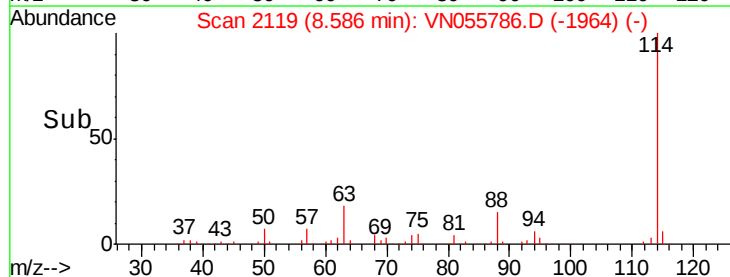
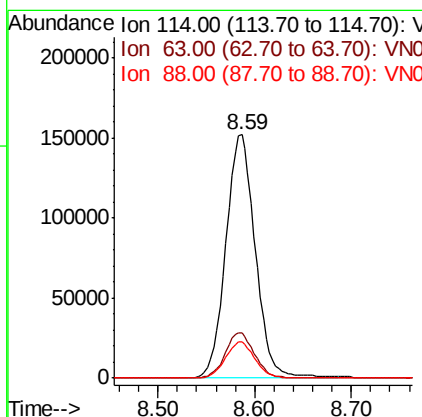
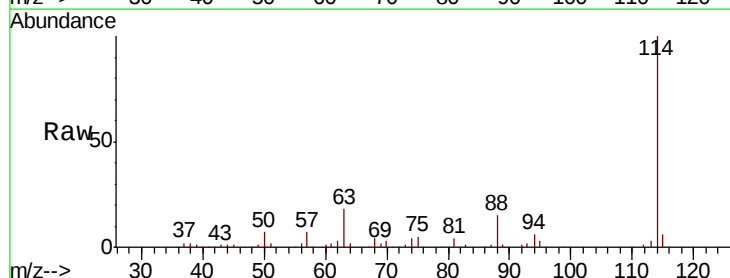
Instrument :
 MSVOA_N
 ClientSampled :
 EFFL-5B

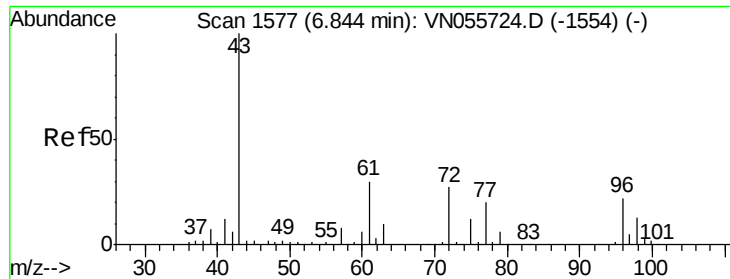
Tgt Ion: 65 Resp: 115527
 Ion Ratio Lower Upper
 65 100
 67 53.2 43.5 65.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055786.D
 Acq: 24 May 2019 11:07

Tgt Ion: 114 Resp: 322307
 Ion Ratio Lower Upper
 114 100
 63 18.5 15.6 23.4
 88 15.0 12.3 18.5

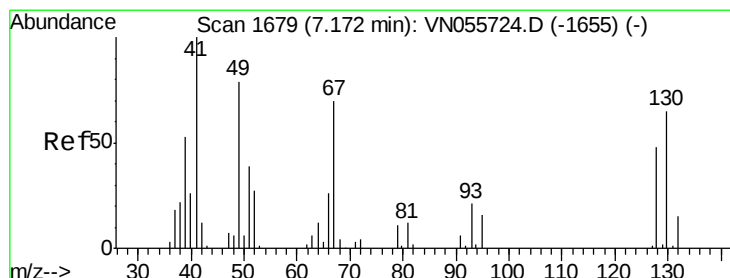
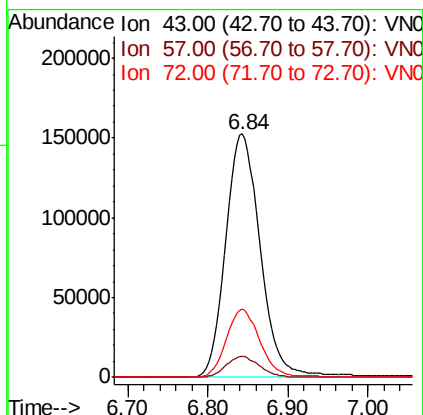
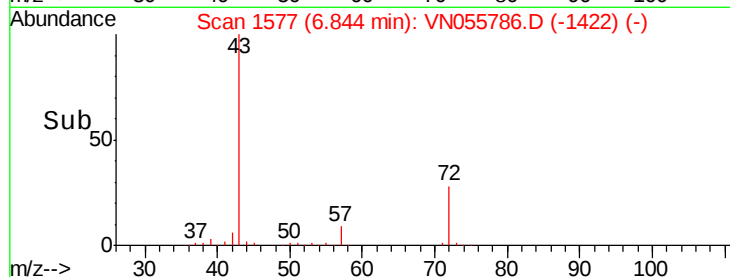
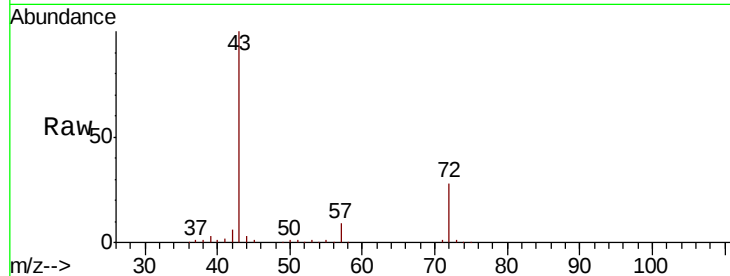




#30
2-Butanone
Concen: 187.077 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. -0.00 min
Lab File: VN055786.D
Acq: 24 May 2019 11:07

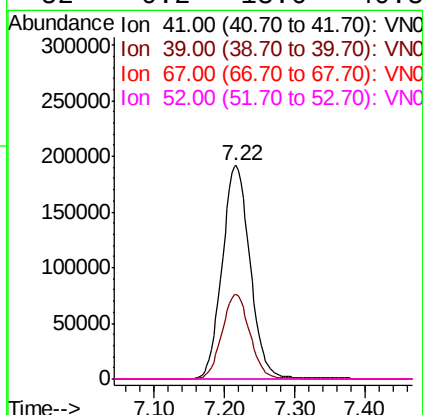
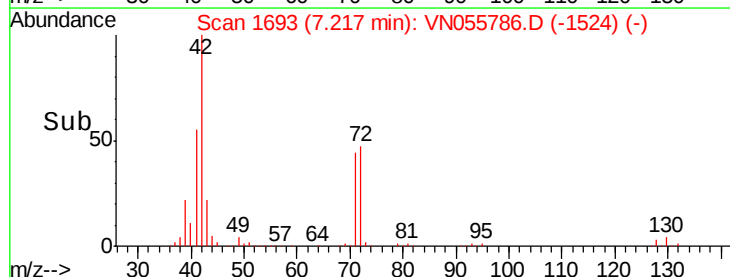
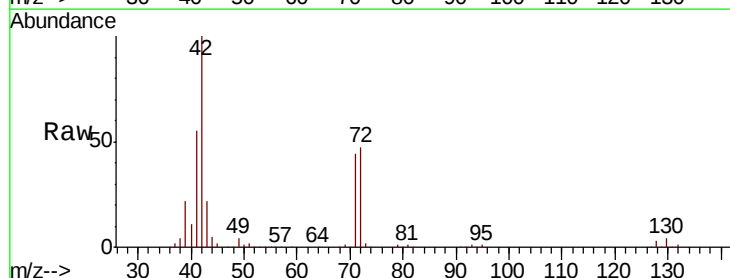
Instrument :
MSVOA_N
ClientSampleId :
EFFL-5B

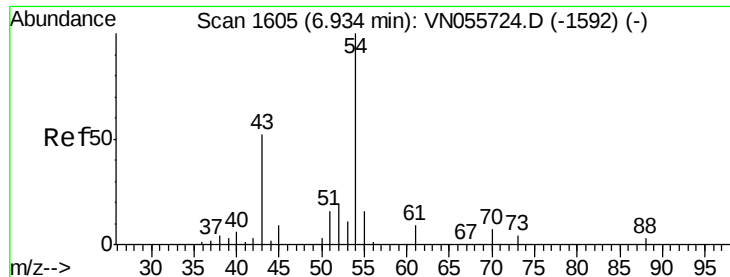
Tgt Ion: 43 Resp: 449904
Ion Ratio Lower Upper
43 100
57 8.3 6.6 10.0
72 27.1 21.7 32.5



#35
Methacrylonitrile
Concen: 239.187 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.04 min
Lab File: VN055786.D
Acq: 24 May 2019 11:07

Tgt Ion: 41 Resp: 530930
Ion Ratio Lower Upper
41 100
39 39.8 26.7 80.1
67 0.0 34.9 104.7#
52 0.2 13.6 40.8#





#43

Ethyl Acetate

Concen: 95.174 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.09 min

Lab File: VN055786.D

Acq: 24 May 2019 11:07

Instrument :

MSVOA_N

ClientSampleId :

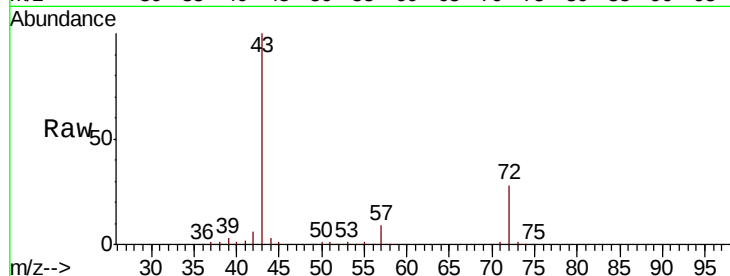
EFFL-5B

Tgt Ion: 43 Resp: 449904

Ion Ratio Lower Upper

43 100

45 0.7 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VN055724.D (-1592) (-)

Ion 45.00 (44.70 to 45.70): VN055724.D (-1592) (-)

6.84

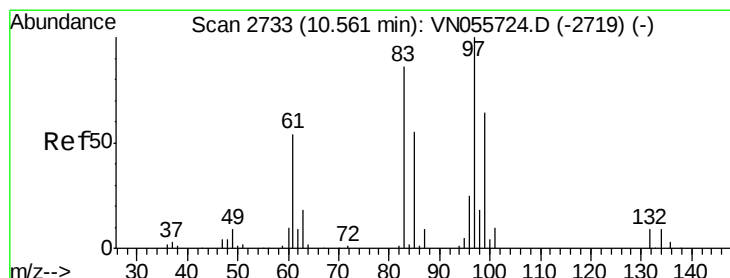
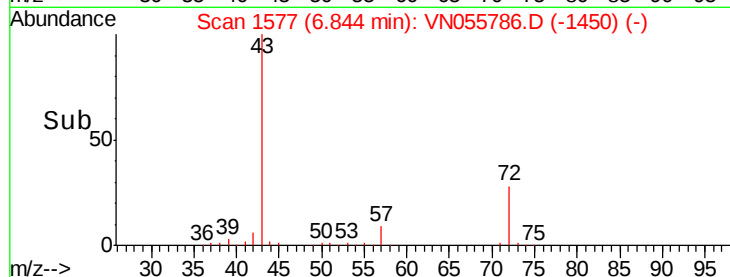
150000

100000

50000

0

Time-->



#50

1,1,2-Trichloroethane

Concen: 3.122 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN055786.D

Acq: 24 May 2019 11:07

Tgt Ion: 97 Resp: 10992

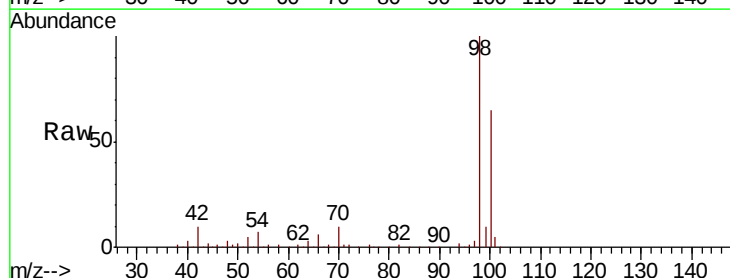
Ion Ratio Lower Upper

97 100

83 0.0 68.9 103.3#

85 0.0 44.3 66.5#

99 285.1 51.4 77.0#



Abundance Ion 97.00 (96.70 to 97.70): VN055724.D (-2719) (-)

Ion 82.95 (82.65 to 83.65): VN055724.D (-2719) (-)

Ion 84.95 (84.65 to 85.65): VN055724.D (-2719) (-)

Ion 98.95 (98.65 to 99.65): VN055724.D (-2719) (-)

25000

20000

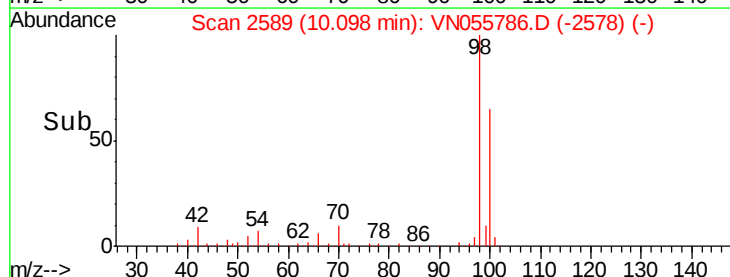
15000

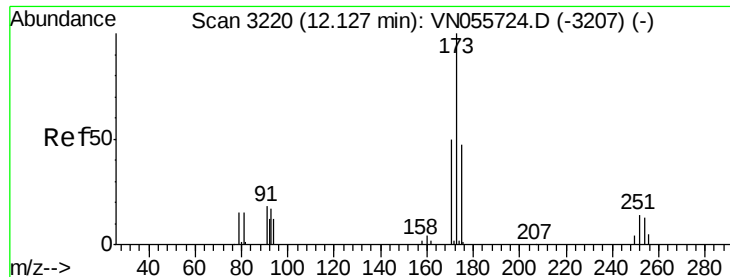
10000

5000

0

Time-->





#56

Bromoform

Concen: 0.211 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055786.D

Acq: 24 May 2019 11:07

Instrument :

MSVOA_N

ClientSampled :

EFFL-5B

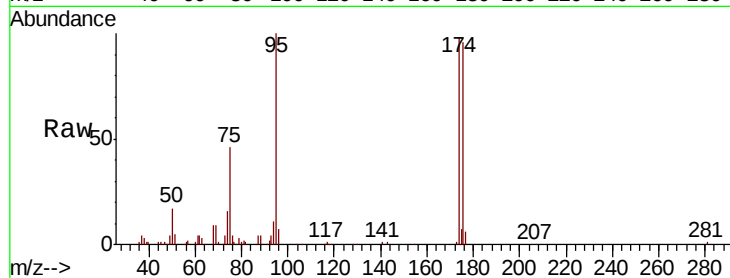
Tgt Ion:173 Resp: 721

Ion Ratio Lower Upper

173 100

175 996.5 38.5 57.7#

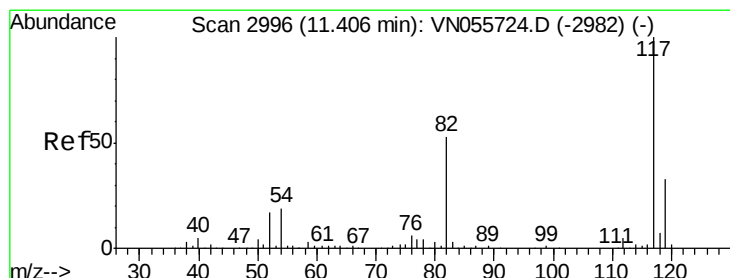
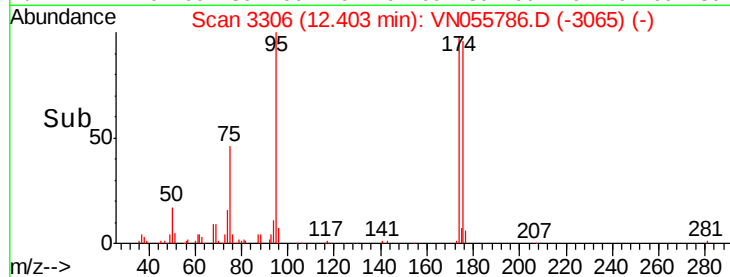
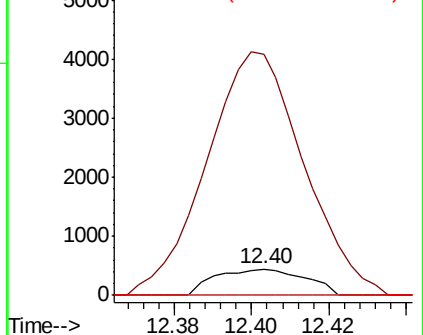
254 0.0 9.4 14.0#



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# 2996

Delta R.T. -0.00 min

Lab File: VN055786.D

Acq: 24 May 2019 11:07

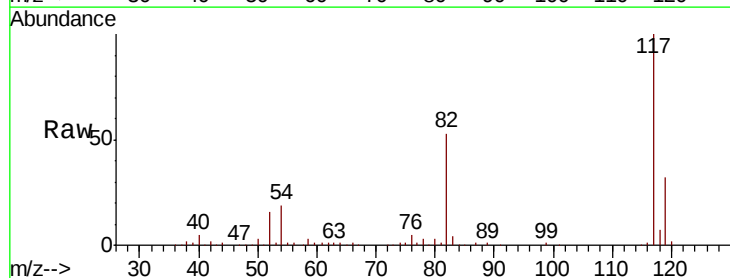
Tgt Ion:117 Resp: 259967

Ion Ratio Lower Upper

117 100

82 51.7 42.6 64.0

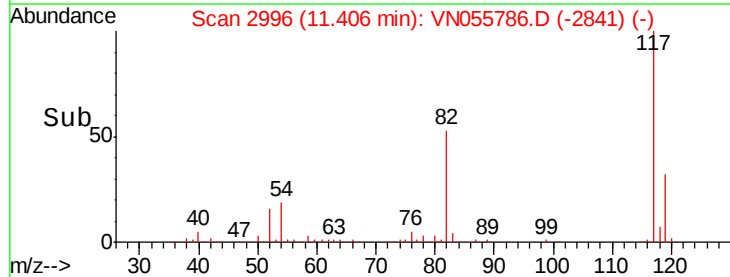
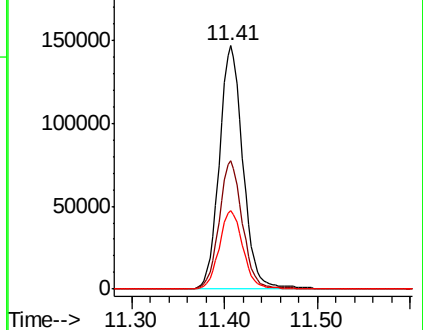
119 32.5 25.9 38.9

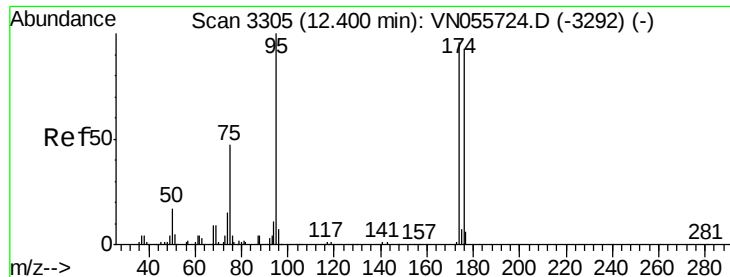


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 25.119 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055786.D

Acq: 24 May 2019 11:07

Instrument :

MSVOA_N

ClientSampled :

EFFL-5B

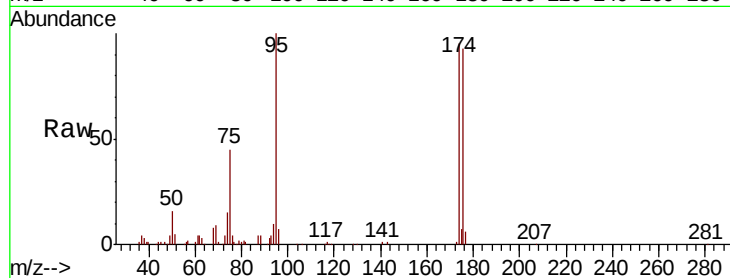
Tgt Ion: 95 Resp: 101585

Ion Ratio Lower Upper

95 100

174 97.2 75.7 113.5

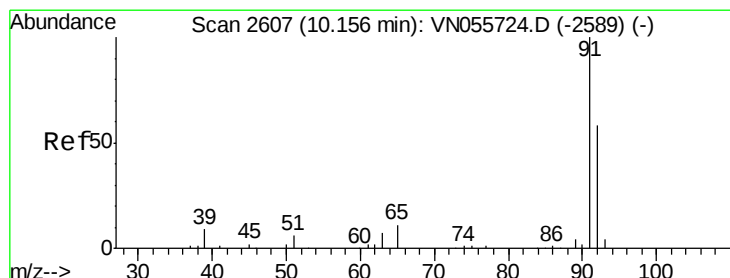
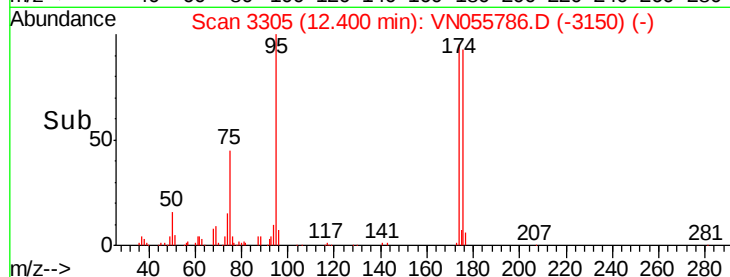
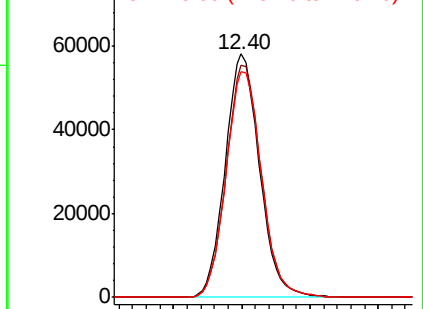
176 95.5 74.1 111.1



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) (-)



#62

Toluene

Concen: 0.774 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN055786.D

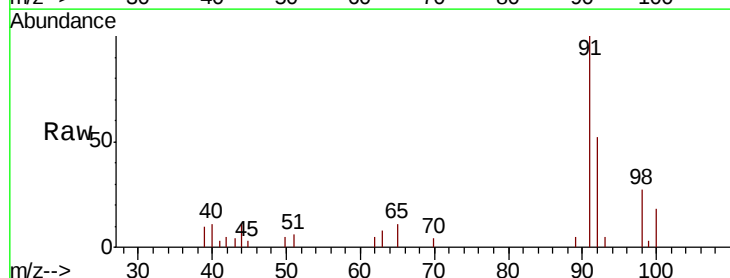
Acq: 24 May 2019 11:07

Tgt Ion: 91 Resp: 10817

Ion Ratio Lower Upper

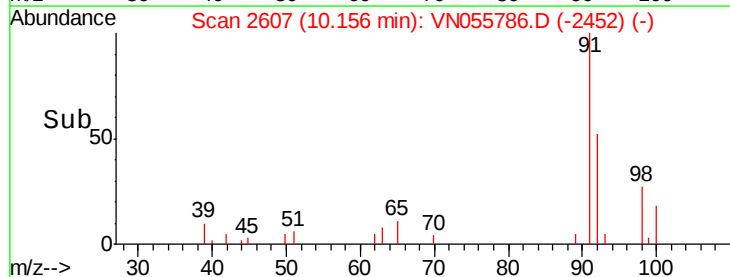
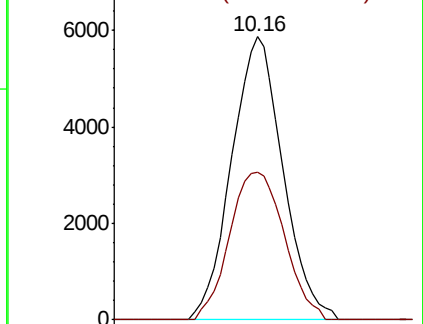
91 100

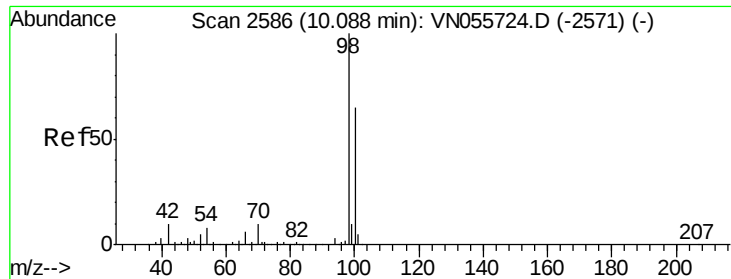
92 55.6 45.6 68.4



Abundance Ion 91.00 (90.70 to 91.70): VN055724.D (-2589) (-)

Ion 92.00 (91.70 to 92.70): VN055724.D (-2589) (-)





#63

Toluene-d8

Concen: 31.449 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055786.D

Acq: 24 May 2019 11:07

Instrument :

MSVOA_N

ClientSampled :

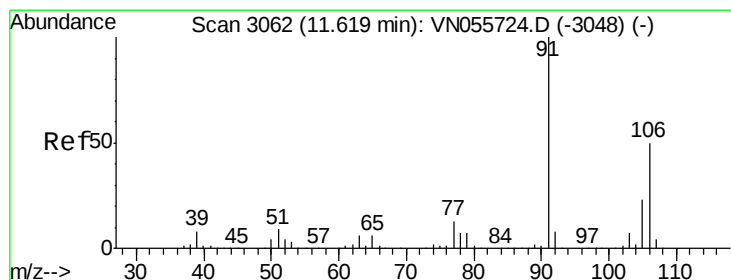
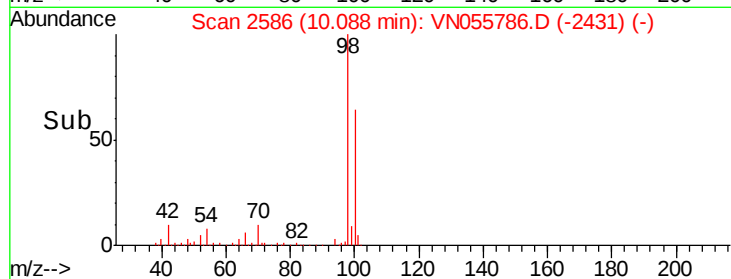
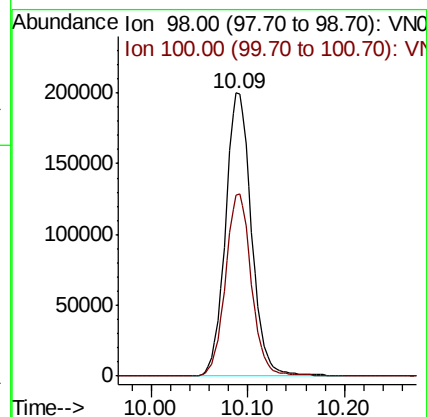
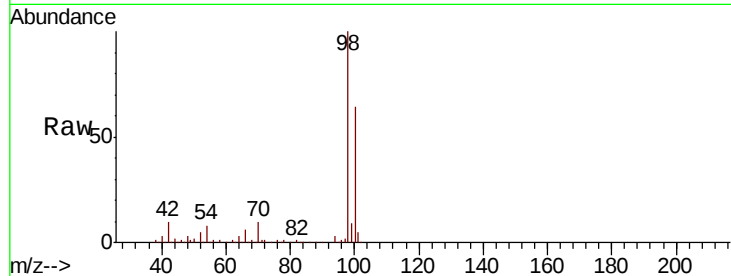
EFFL-5B

Tgt Ion: 98 Resp: 373622

Ion Ratio Lower Upper

98 100

100 64.2 51.6 77.4



#67

m/p-Xylenes

Concen: 0.791 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN055786.D

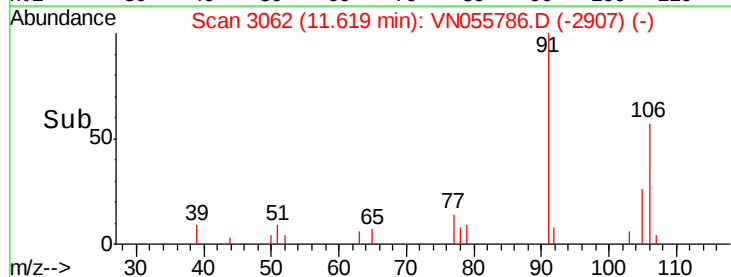
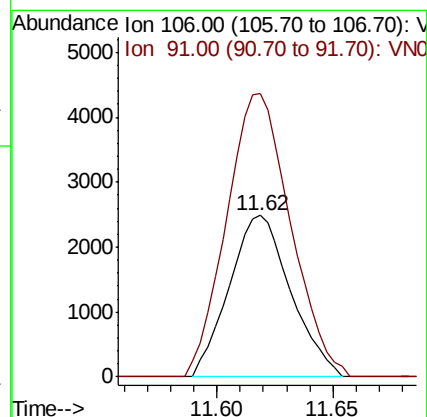
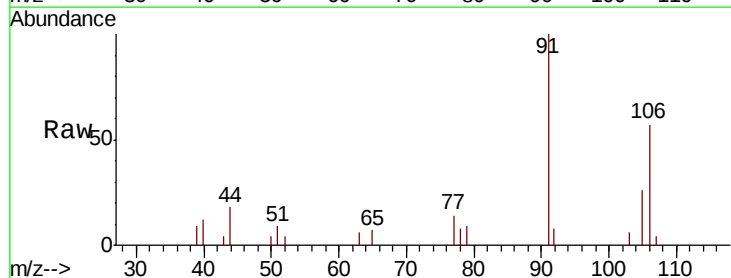
Acq: 24 May 2019 11:07

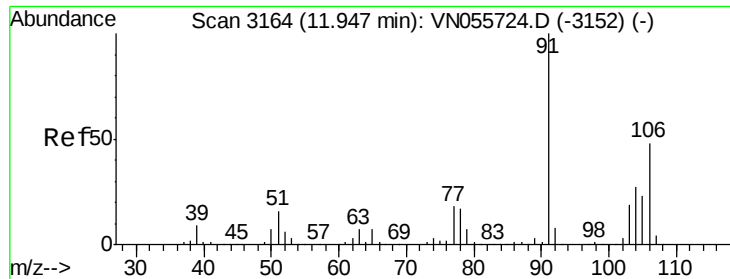
Tgt Ion: 106 Resp: 4591

Ion Ratio Lower Upper

106 100

91 181.9 159.5 239.3

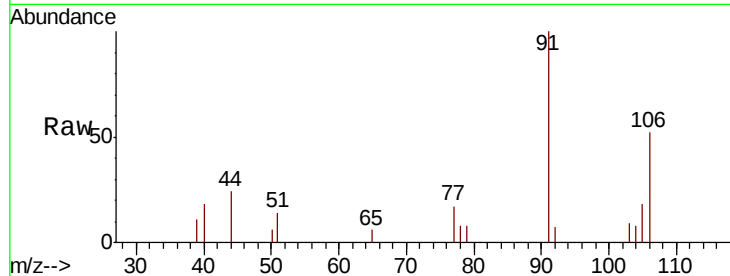




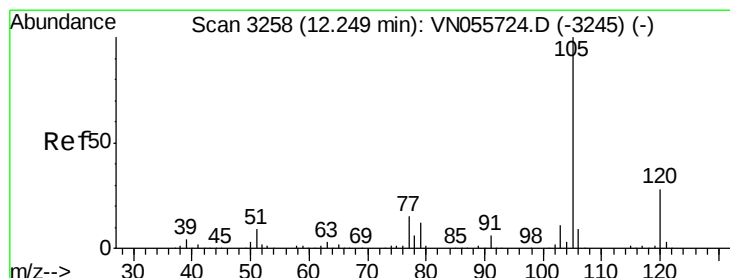
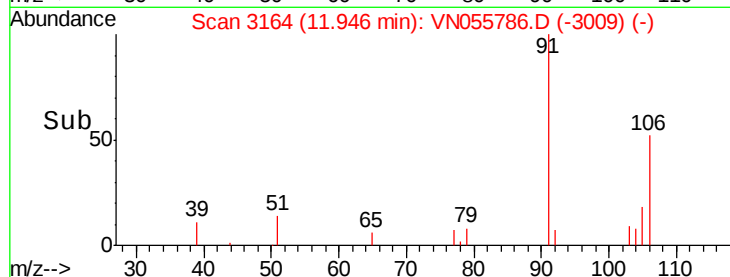
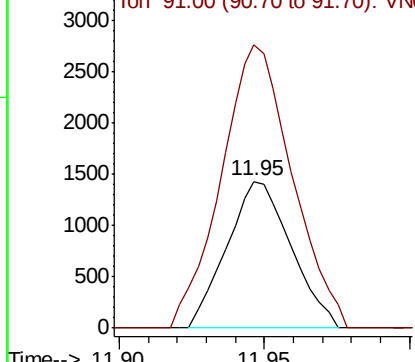
#68
o-Xylene
Concen: 0.383 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055786.D
Acq: 24 May 2019 11:07

Instrument :
MSVOA_N
ClientSampled :
EFFL-5B

Tgt Ion:106 Resp: 2198
Ion Ratio Lower Upper
106 100
91 213.3 105.4 316.1

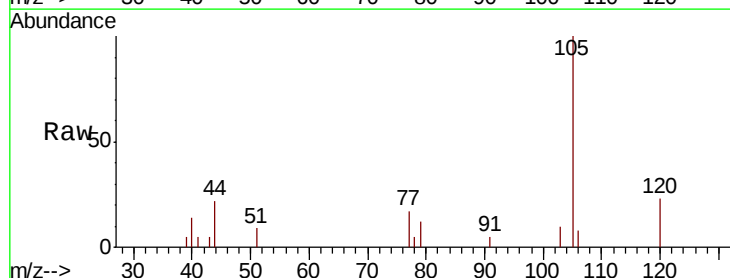


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

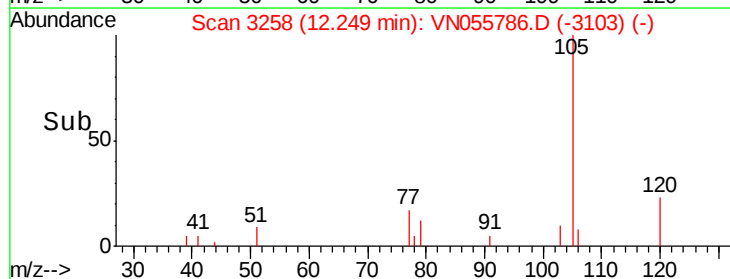
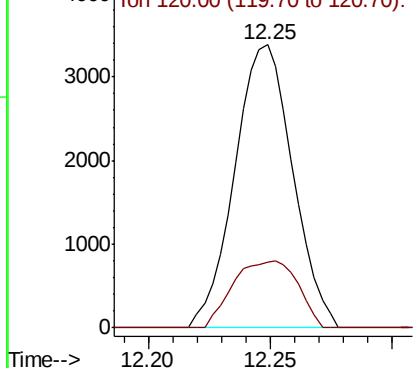


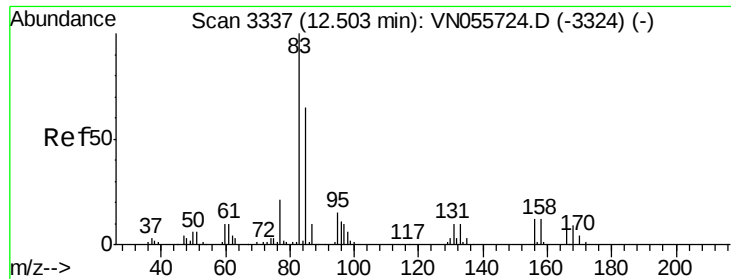
#70
Isopropylbenzene
Concen: 0.371 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN055786.D
Acq: 24 May 2019 11:07

Tgt Ion:105 Resp: 5580
Ion Ratio Lower Upper
105 100
120 26.5 19.2 35.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

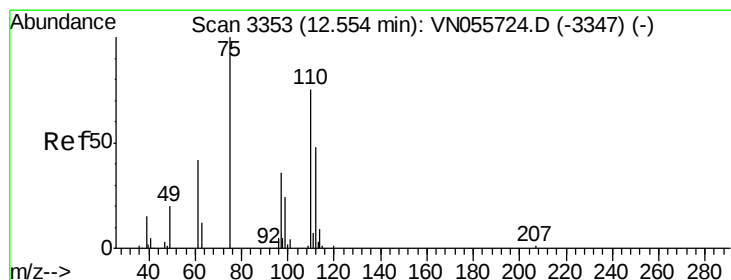
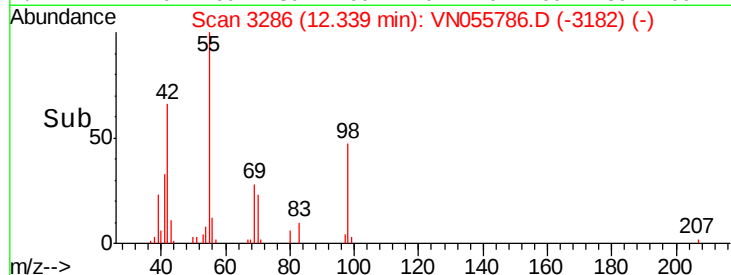
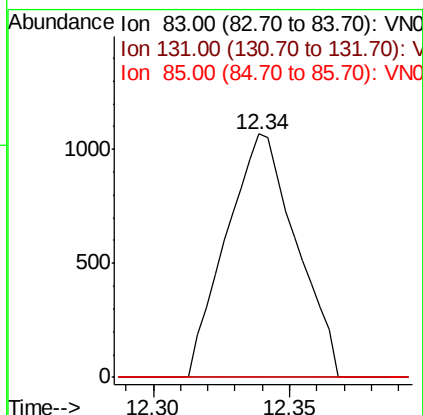
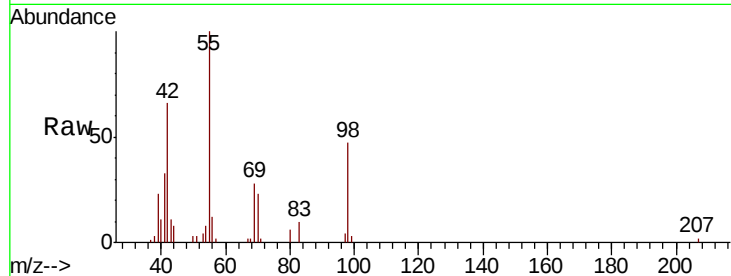




#71
 1,1,2,2-Tetrachloroethane
 Concen: 0.411 ug/l
 RT: 12.34 min Scan# 3286
 Delta R.T. -0.16 min
 Lab File: VN055786.D
 Acq: 24 May 2019 11:07

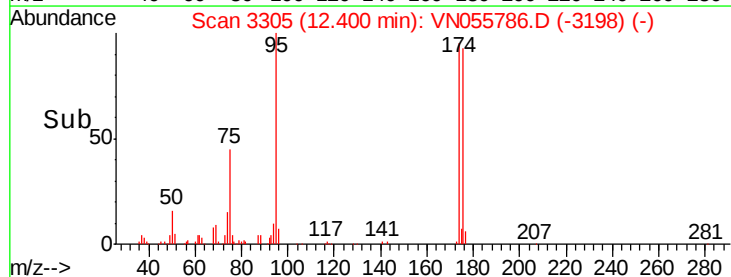
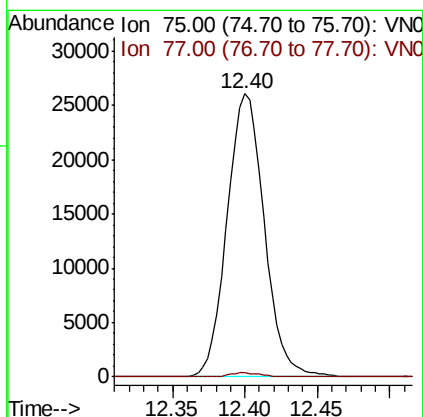
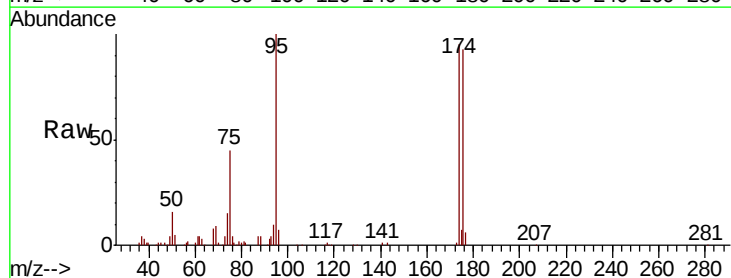
Instrument :
 MSVOA_N
 ClientSampled :
 EFFL-5B

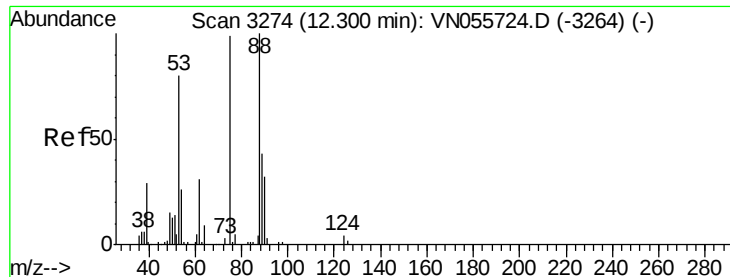
Tgt Ion: 83 Resp: 1899
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.3 15.8#
 85 0.0 32.3 96.9#



#72
 1,2,3-Trichloropropane
 Concen: 11.666 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN055786.D
 Acq: 24 May 2019 11:07

Tgt Ion: 75 Resp: 46424
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 349.8





#77

t-1,4-Dichloro-2-butene

Concen: 29.370 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055786.D

Acq: 24 May 2019 11:07

Instrument :

MSVOA_N

ClientSampleId :

EFFL-5B

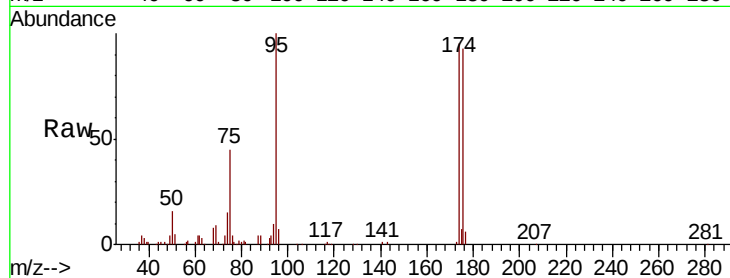
Tgt Ion: 75 Resp: 46424

Ion Ratio Lower Upper

75 100

53 0.0 40.1 120.3#

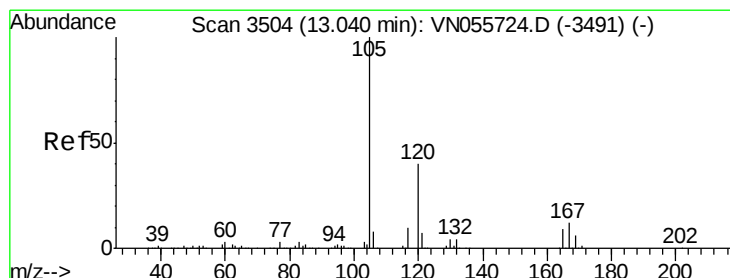
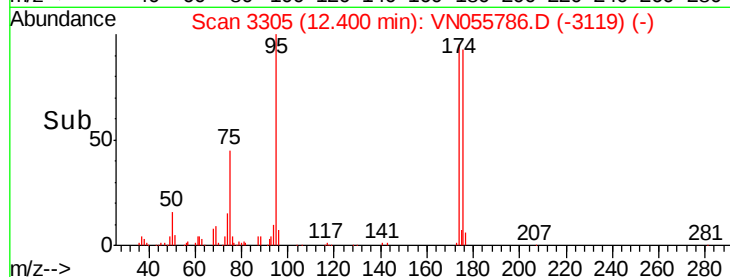
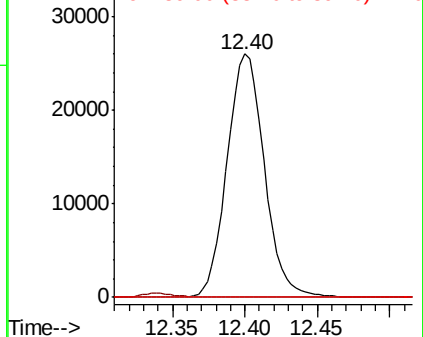
89 0.0 22.6 67.8#



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



#80

1,2,4-Trimethylbenzene

Concen: 0.214 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN055786.D

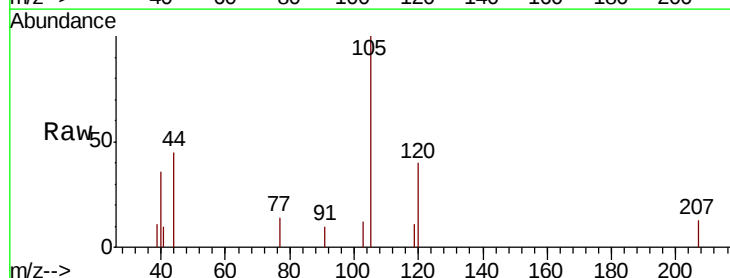
Acq: 24 May 2019 11:07

Tgt Ion: 105 Resp: 2635

Ion Ratio Lower Upper

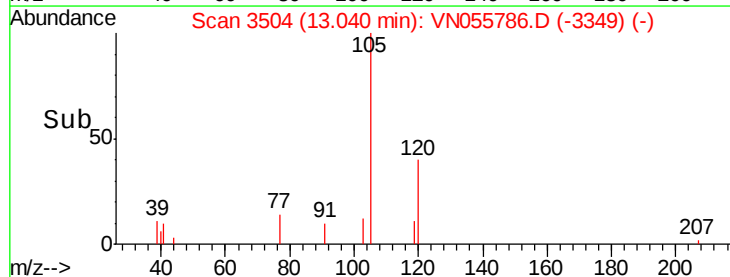
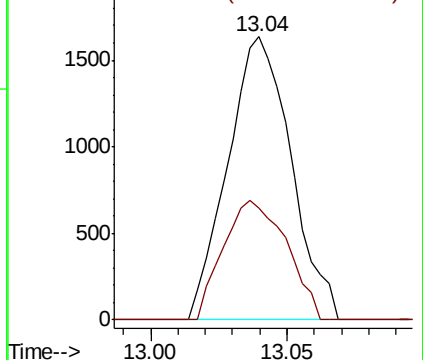
105 100

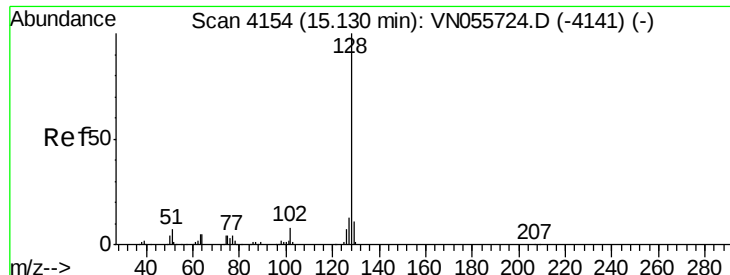
120 42.2 0.0 93.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#91

Naphthalene

Concen: 0.501 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055786.D

Acq: 24 May 2019 11:07

Instrument :

MSVOA_N

ClientSampleId :

EFFL-5B

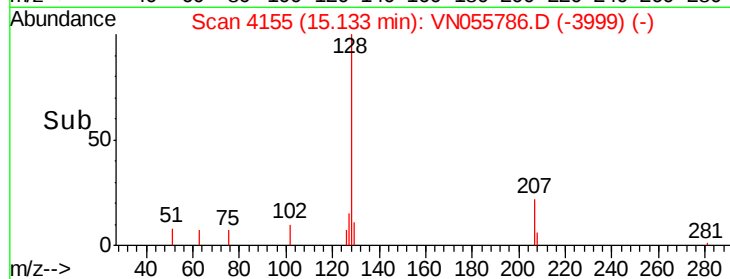
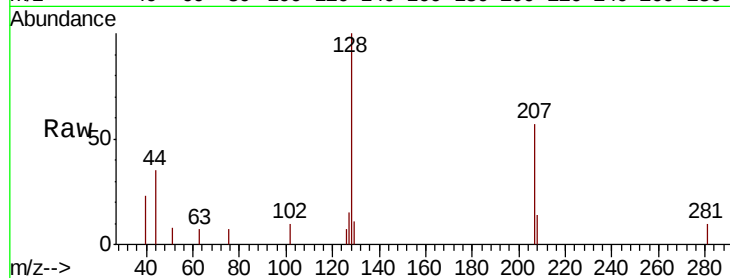
Tgt Ion:128 Resp: 4639

Ion Ratio Lower Upper

128 100

127 10.1 10.0 15.0

129 4.9 8.7 13.1#



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

