

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
 Data File : VU030744.D
 Acq On : 05 Apr 2019 15:29
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 61 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Quant Time: Apr 05 23:47:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 23:39:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	325074	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	322004	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	150690	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	137773	47.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.96%
7) Chloroethane-d5	1.68	69	109286	49.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	99.24%
11) 1,1-Dichloroethene-d2	2.27	63	265735	50.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.26%
21) 2-Butanone-d5	4.17	46	269013	116.97	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	116.97%
24) Chloroform-d	4.64	84	228216	51.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.96%
26) 1,2-Dichloroethane-d4	5.31	65	155146	51.29	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.58%
32) Benzene-d6	5.34	84	464671	49.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.86%
36) 1,2-Dichloropropane-d6	6.32	67	160816	49.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.84%
41) Toluene-d8	7.56	98	419373	50.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.66%
43) trans-1,3-Dichloropropene-	7.85	79	74491	50.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.42%
47) 2-Hexanone-d5	8.31	63	154936	105.23	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.23%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	226489	52.12	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	104.24%
64) 1,2-Dichlorobenzene-d4	11.86	152	147786	49.87	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.74%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	146496	51.304	ug/L 99
3) Chloromethane	1.32	50	187091	50.655	ug/L 99
5) Vinyl chloride	1.40	62	180651	50.528	ug/L 96
6) Bromomethane	1.62	94	94223	50.867	ug/L 100
8) Chloroethane	1.70	64	106629	52.290	ug/L 98
9) Trichlorofluoromethane	1.88	101	215945	51.836	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	119945	51.530	ug/L 98
12) 1,1-Dichloroethene	2.28	96	118389	52.686	ug/L 97
13) Acetone	2.32	43	259161	110.121	ug/L 98
14) Carbon disulfide	2.47	76	356582	51.082	ug/L 99
15) Methyl Acetate	2.61	43	203681	55.819	ug/L 97
16) Methylene chloride	2.70	84	139830	51.224	ug/L 95
17) trans-1,2-Dichloroethene	2.98	96	119147	49.938	ug/L 98
18) Methyl tert-butyl Ether	2.99	73	408476	51.110	ug/L 99
19) 1,1-Dichloroethane	3.44	63	258484	52.497	ug/L 98
20) cis-1,2-Dichloroethene	4.22	96	137272	52.107	ug/L 97
22) 2-Butanone	4.26	43	316277	114.621	ug/L 98

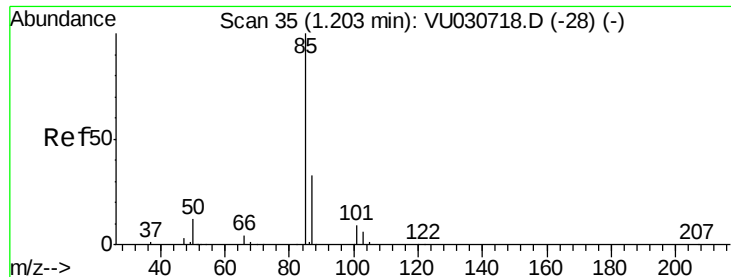
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
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 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 23:39:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	64348	51.666	ug/L	93
25) Chloroform	4.67	83	254715	51.471	ug/L	98
27) 1,2-Dichloroethane	5.40	62	195394	51.732	ug/L	99
29) Cyclohexane	4.99	56	227397	49.548	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	201106	51.247	ug/L	99
31) Carbon tetrachloride	5.13	117	172551	51.025	ug/L	100
33) Benzene	5.39	78	541758	51.413	ug/L	100
34) Trichloroethene	6.18	95	131367	50.829	ug/L	98
35) Methylcyclohexane	6.41	83	203945	51.133	ug/L	100
37) 1,2-Dichloropropane	6.43	63	151939	50.922	ug/L	99
38) Bromodichloromethane	6.75	83	186509	51.815	ug/L	96
39) cis-1,3-Dichloropropene	7.27	75	207742	48.916	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	513557	107.032	ug/L	100
42) Toluene	7.63	91	561577	52.210	ug/L	99
44) trans-1,3-Dichloropropene	7.88	75	197794	52.848	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	131381	51.918	ug/L	95
46) Tetrachloroethene	8.22	164	96208	51.202	ug/L	98
48) 2-Hexanone	8.36	43	420708	112.385	ug/L	99
49) Dibromochloromethane	8.47	129	137001	51.022	ug/L	97
50) 1,2-Dibromoethane	8.58	107	136982	50.025	ug/L	99
51) Chlorobenzene	9.12	112	333806	50.599	ug/L	98
52) Ethylbenzene	9.25	91	590965	50.404	ug/L	99
53) m,p-Xylene	9.37	106	212165	51.885	ug/L	98
54) o-xylene	9.77	106	206466	50.761	ug/L	100
55) Styrene	9.79	104	365100	52.332	ug/L	99
56) Isopropylbenzene	10.16	105	551217	51.473	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.45	83	234995	51.341	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	191104	53.477	ug/L	97
61) Bromoform	9.95	173	98600	49.531	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	235025	49.348	ug/L	98
63) 1,4-Dichlorobenzene	11.50	146	237632	49.053	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	239907	50.219	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	52756	51.947	ug/L	97
67) 1,3,5-Trichlorobenzene	12.88	180	170931	49.110	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	141728	47.893	ug/L	97
69) Naphthalene	13.74	128	474116	49.421	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	152960	49.471	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 51.304 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

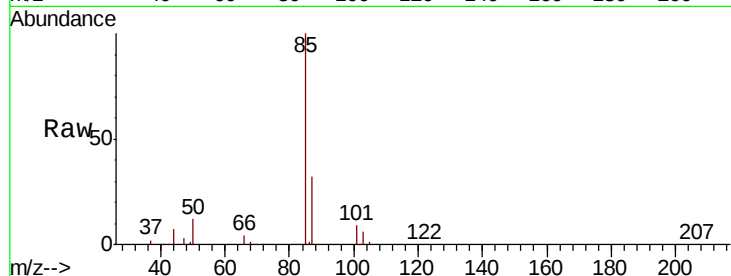
VSTD05050

Tot Ion: 85 Resp: 146496

Ion Ratio Lower Upper

85 100

87 31.7 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VU030718.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU030718.D (-28) (-)

1.20

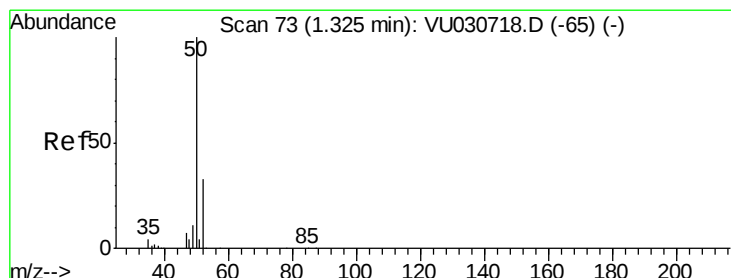
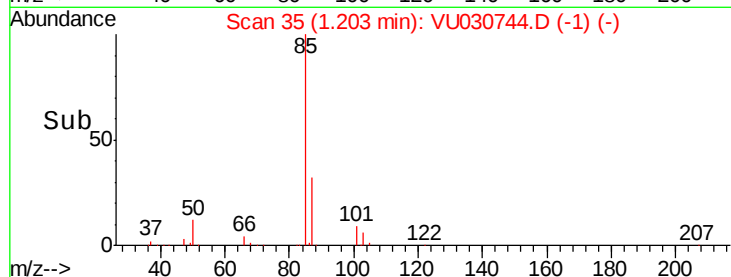
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 50.655 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU030744.D

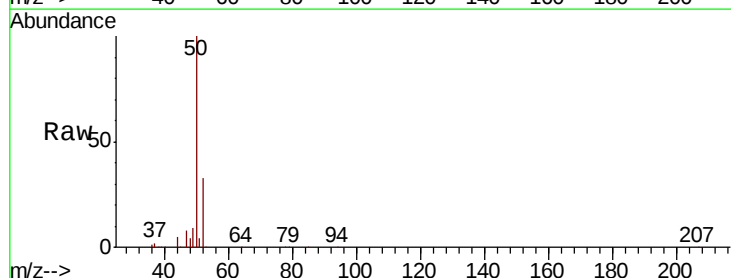
Acq: 05 Apr 2019 15:29

Tgt Ion: 50 Resp: 187091

Ion Ratio Lower Upper

50 100

52 32.9 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VU030718.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU030718.D (-65) (-)

1.32

200000

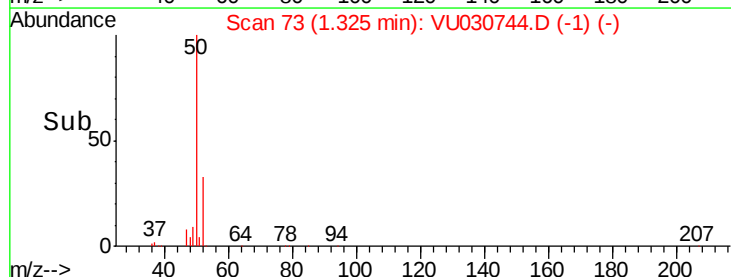
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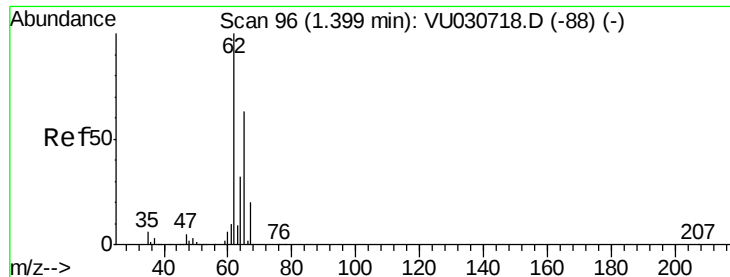
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50000

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Time-->





#5

Vinyl chloride

Concen: 50.528 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

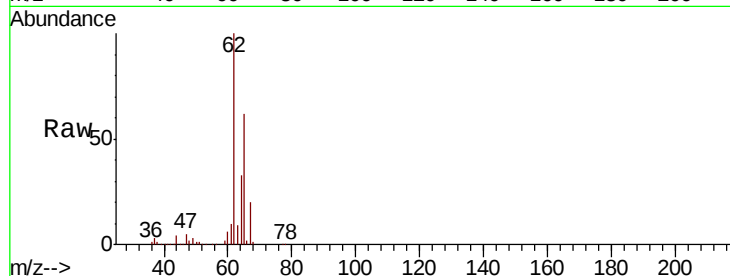
VSTD05050

Tot Ion: 62 Resp: 180651

Ion Ratio Lower Upper

62 100

64 33.0 21.5 39.9



Abundance Ion 62.00 (61.70 to 62.70): VU030718.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU030718.D (-88) (-)

1.40

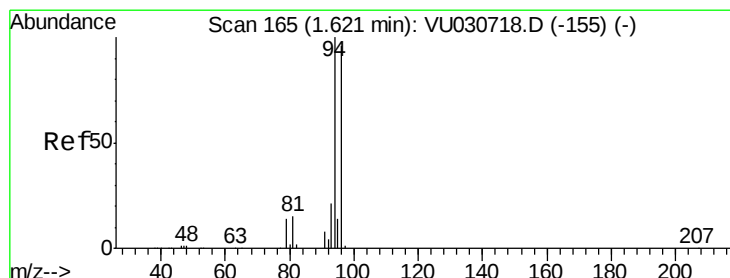
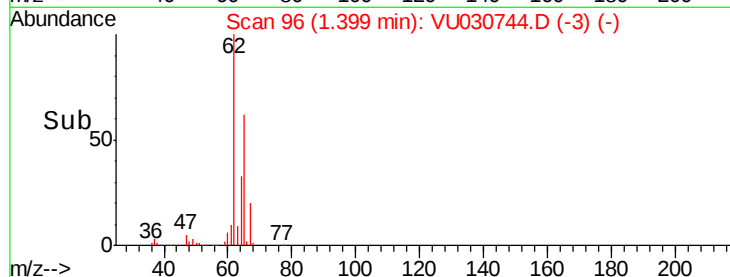
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 50.867 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU030744.D

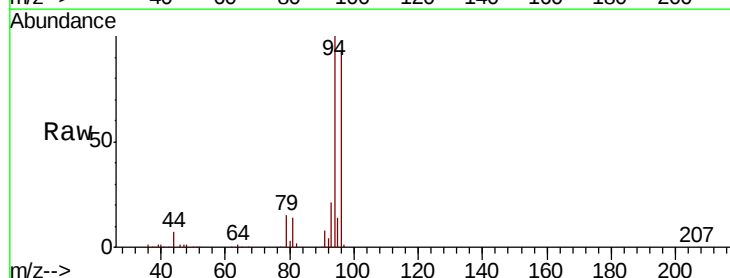
Acq: 05 Apr 2019 15:29

Tgt Ion: 94 Resp: 94223

Ion Ratio Lower Upper

94 100

96 93.2 65.5 121.7



Abundance Ion 94.00 (93.70 to 94.70): VU030718.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU030718.D (-155) (-)

1.62

80000

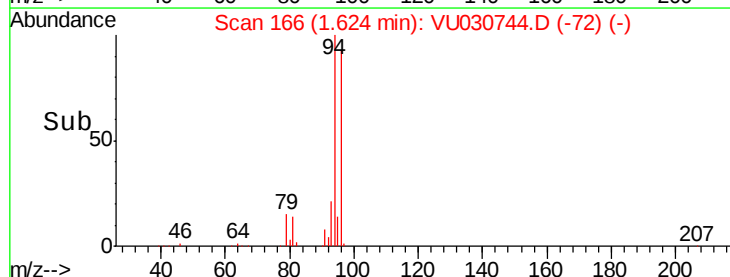
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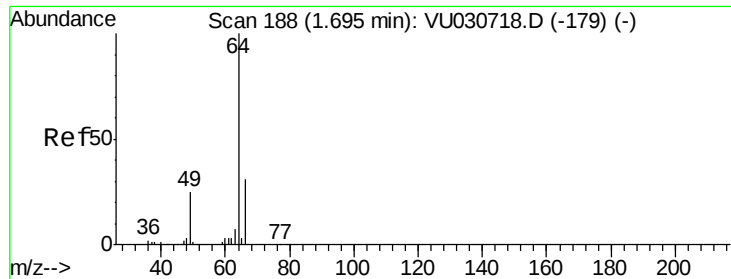
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20000

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Time-->

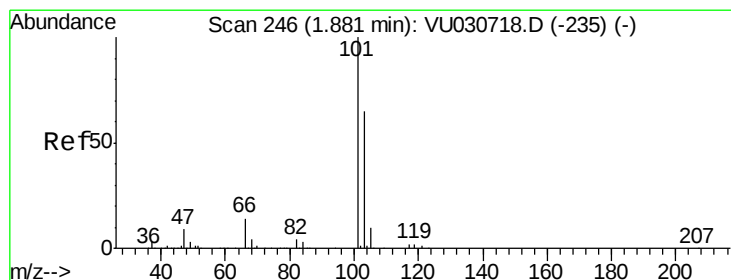
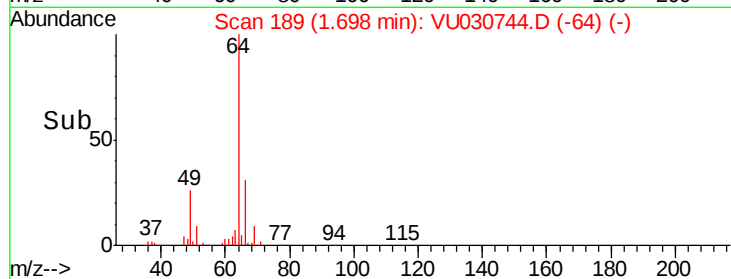
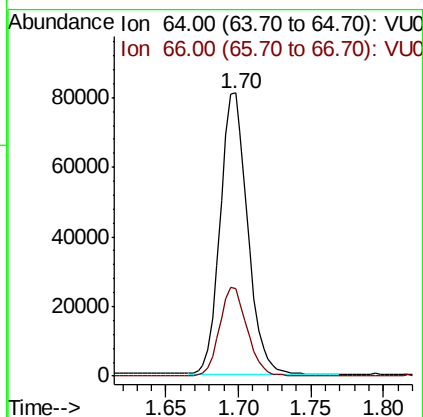
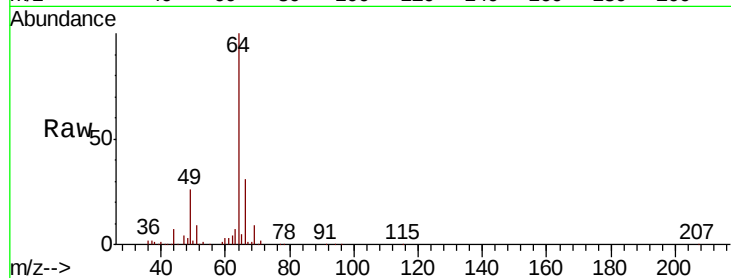




#8
Chloroethane
Concen: 52.290 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

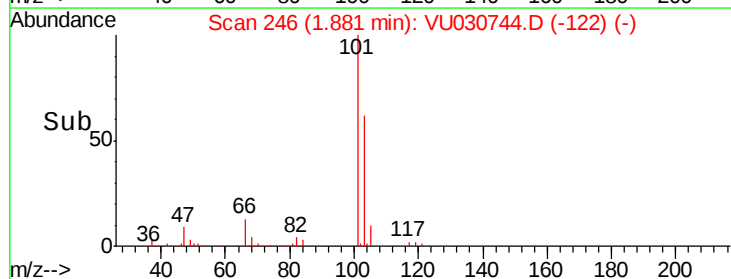
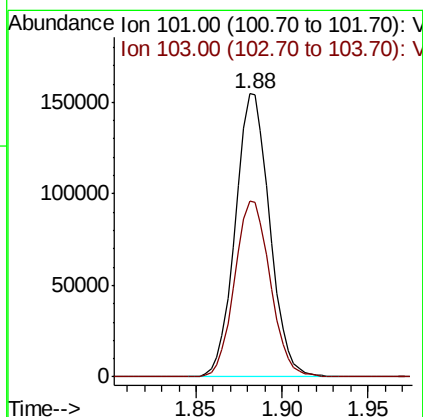
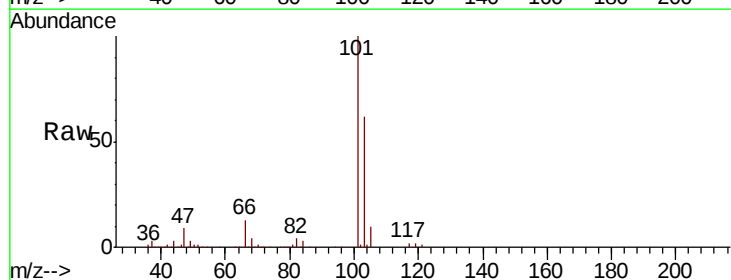
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

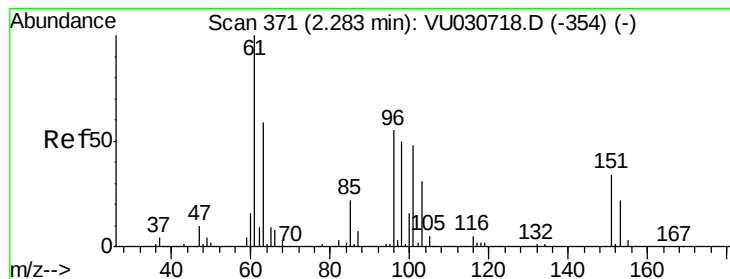
Tot Ion: 64 Resp: 106629
Ion Ratio Lower Upper
64 100
66 30.7 22.4 41.6



#9
Trichlorofluoromethane
Concen: 51.836 ug/L
RT: 1.88 min Scan# 246
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

Tgt Ion:101 Resp: 215945
Ion Ratio Lower Upper
101 100
103 64.4 51.8 77.8





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 51.530 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

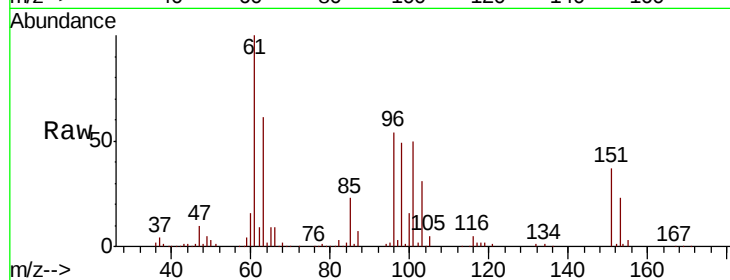
Tot Ion: 101 Resp: 119945

Ion Ratio Lower Upper

101 100

85 44.5 36.8 55.2

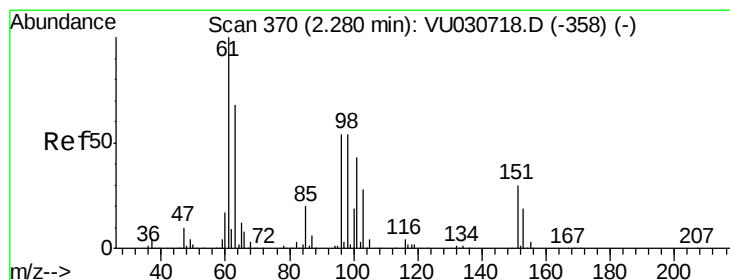
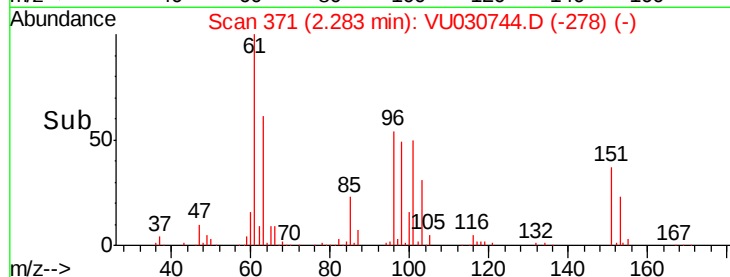
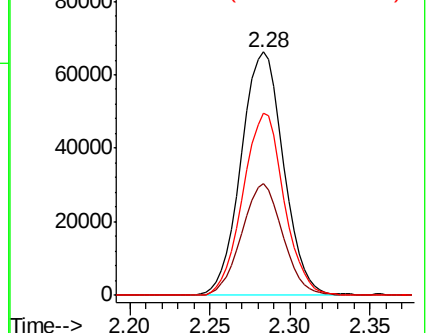
151 72.7 57.4 86.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 52.686 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

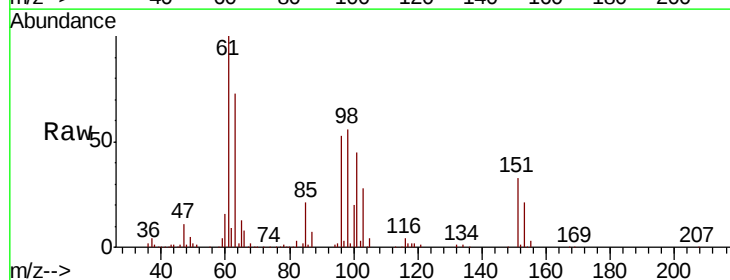
Tgt Ion: 96 Resp: 118389

Ion Ratio Lower Upper

96 100

61 187.4 132.0 245.2

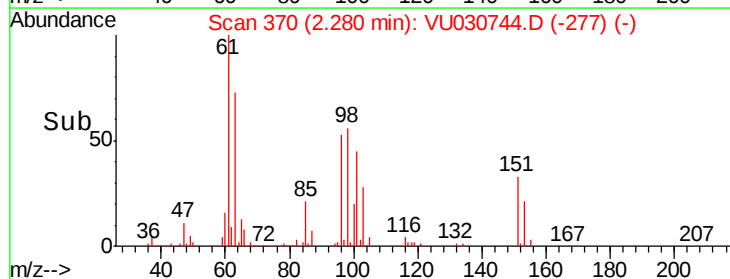
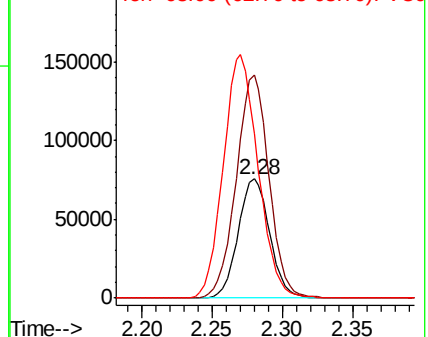
63 137.3 90.9 168.9

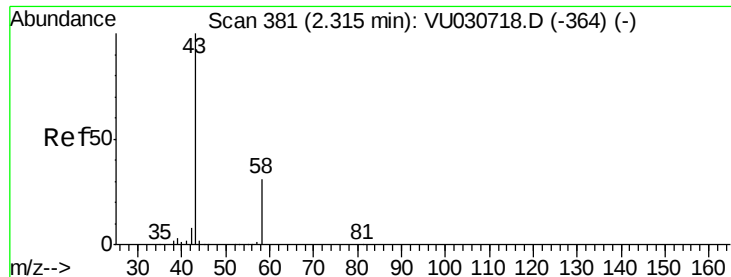


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 110.121 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

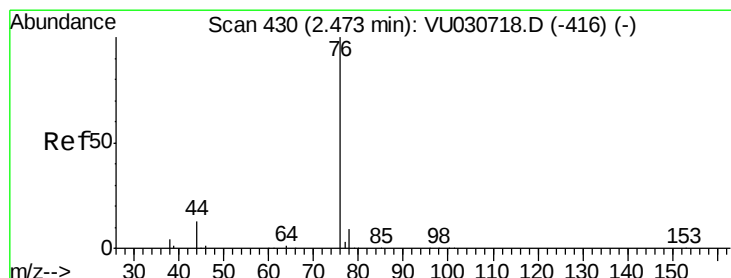
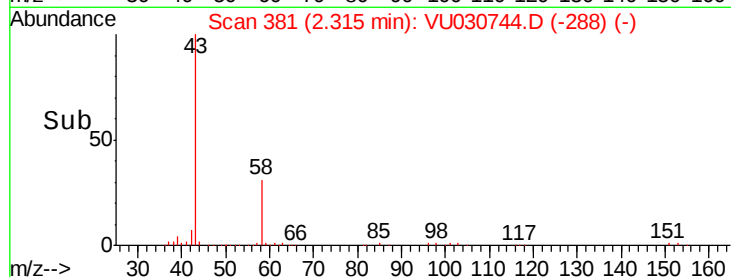
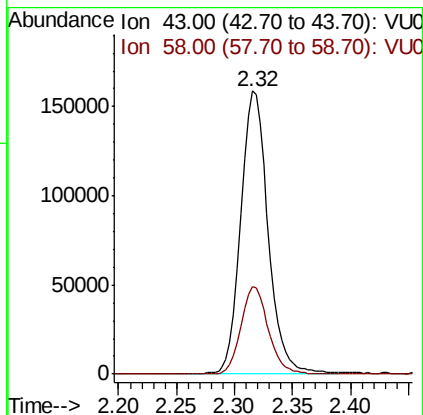
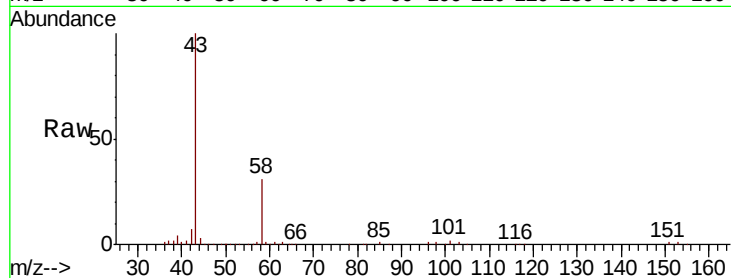
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tot Ion: 43 Resp: 259161

Ion Ratio Lower Upper

43 100

58 30.9 0.0 64.0



#14

Carbon disulfide

Concen: 51.082 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU030744.D

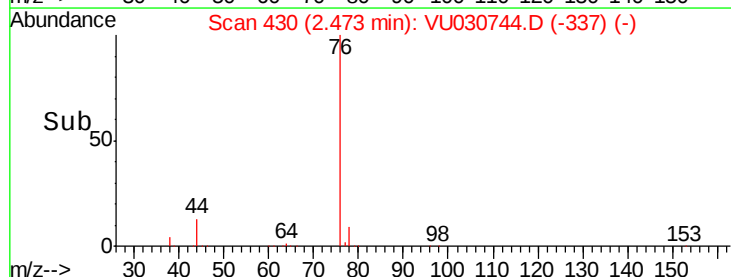
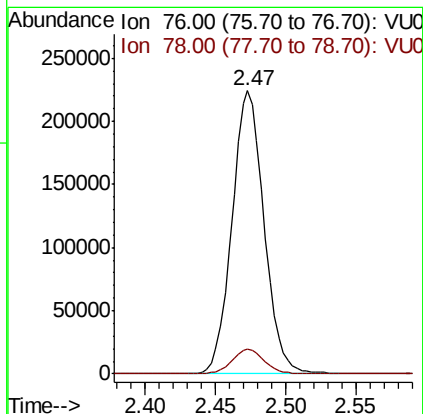
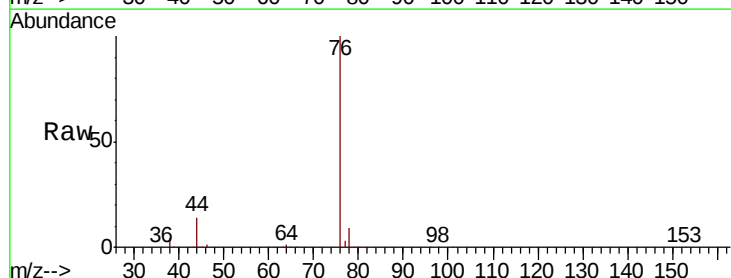
Acq: 05 Apr 2019 15:29

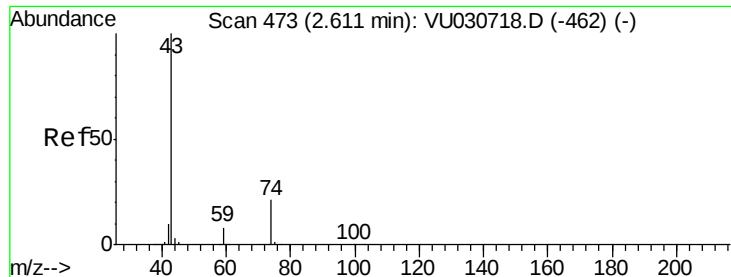
Tgt Ion: 76 Resp: 356582

Ion Ratio Lower Upper

76 100

78 8.9 7.0 10.4





#15

Methvl Acetate

Concen: 55.819 ug/L

RT: 2.61 min Scan# 473

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampled :

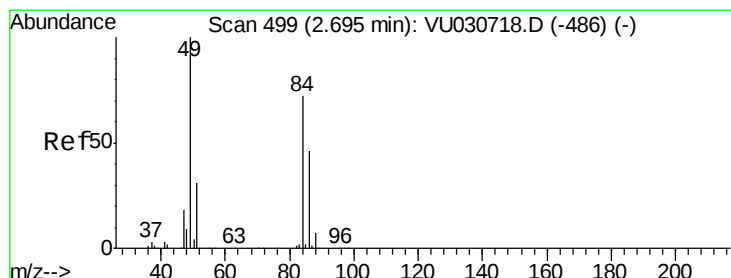
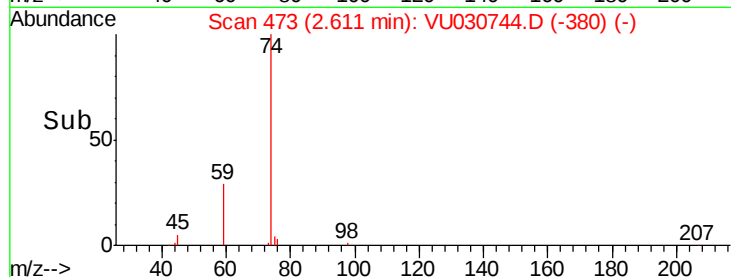
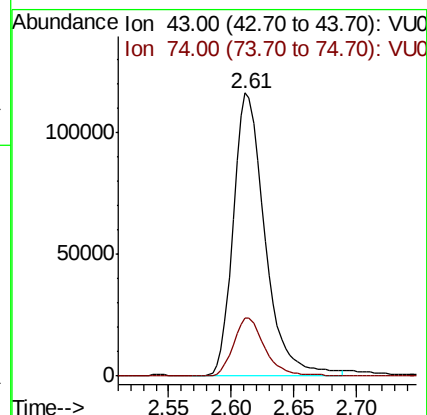
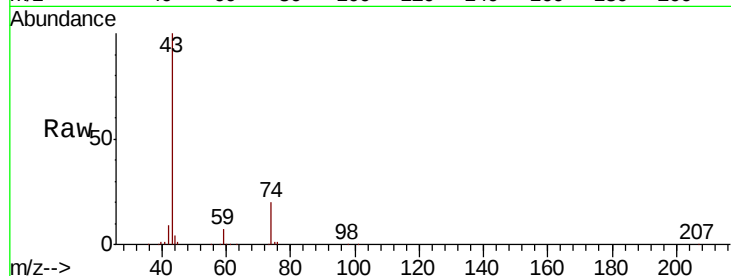
VSTD05050

Tot Ion: 43 Resp: 203681

Ion Ratio Lower Upper

43 100

74 20.1 17.1 25.7



#16

Methylene chloride

Concen: 51.224 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

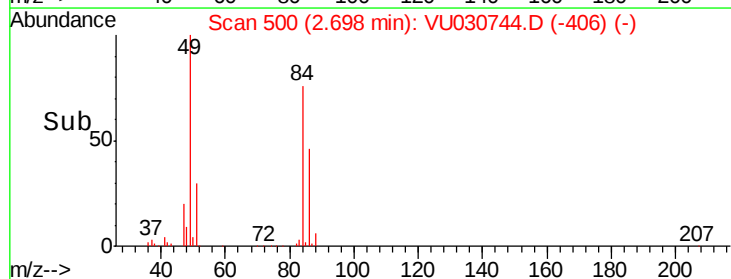
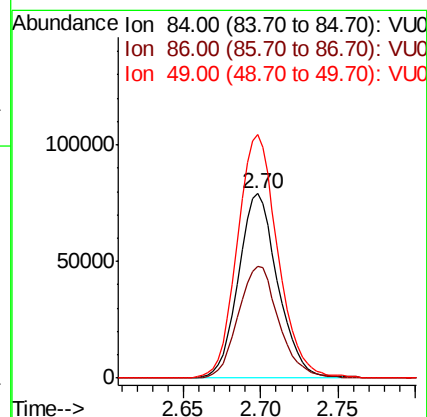
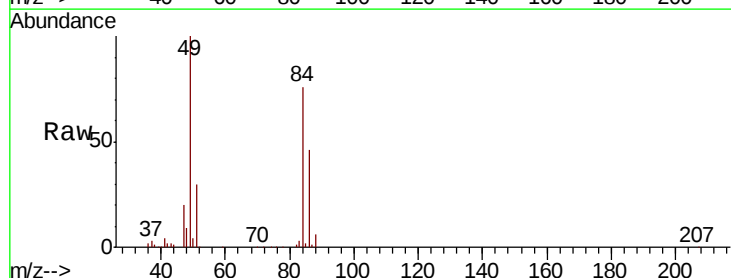
Tgt Ion: 84 Resp: 139830

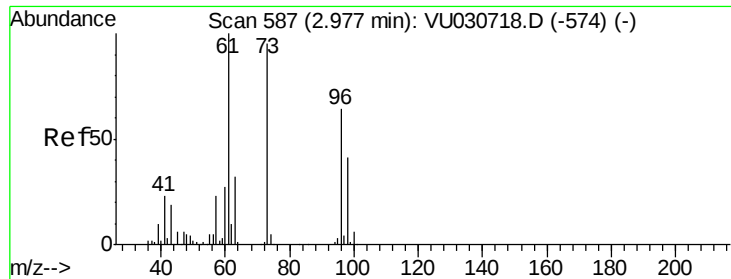
Ion Ratio Lower Upper

84 100

86 60.9 45.1 83.7

49 131.9 96.5 179.1





#17

trans-1,2-Dichloroethene

Concen: 49.938 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

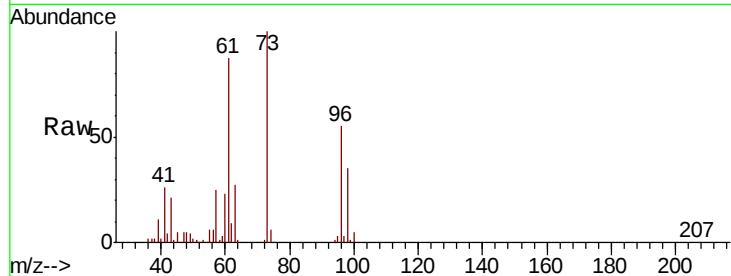
Tot Ion: 96 Resp: 119147

Ion Ratio Lower Upper

96 100

61 158.6 109.5 203.3

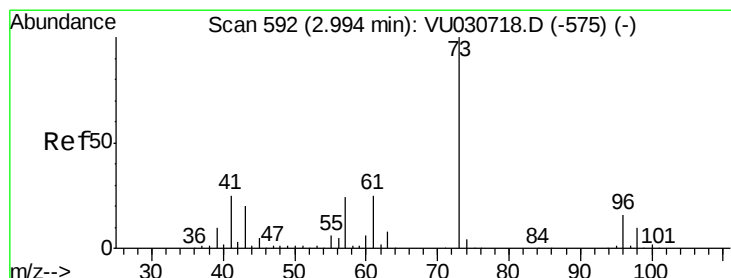
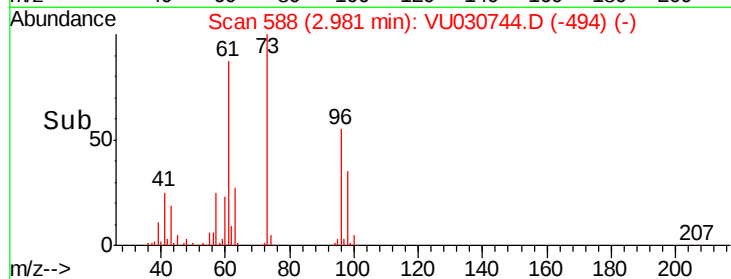
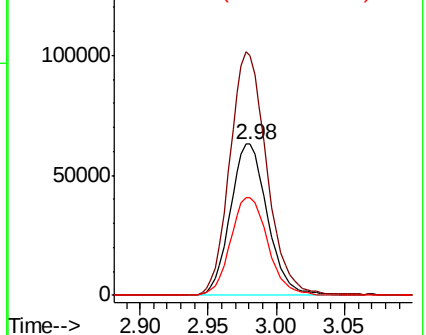
98 64.2 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU030718.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU030718.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU030718.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 51.110 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

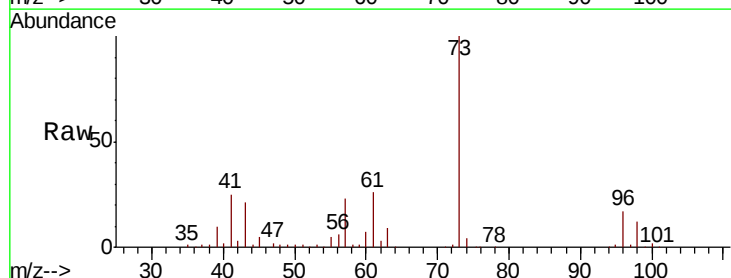
Tgt Ion: 73 Resp: 408476

Ion Ratio Lower Upper

73 100

43 20.6 16.4 24.6

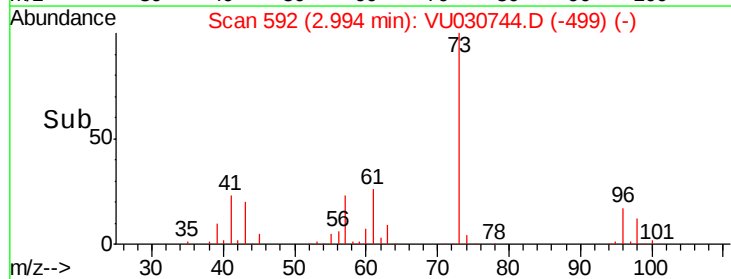
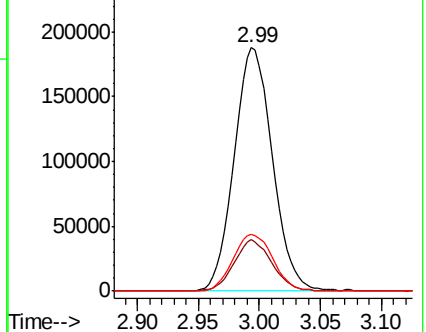
57 24.3 19.0 28.4

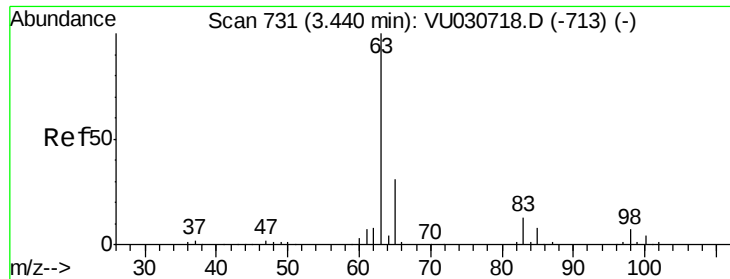


Abundance Ion 73.00 (72.70 to 73.70): VU030718.D (-575) (-)

Ion 43.00 (42.70 to 43.70): VU030718.D (-575) (-)

Ion 57.00 (56.70 to 57.70): VU030718.D (-575) (-)

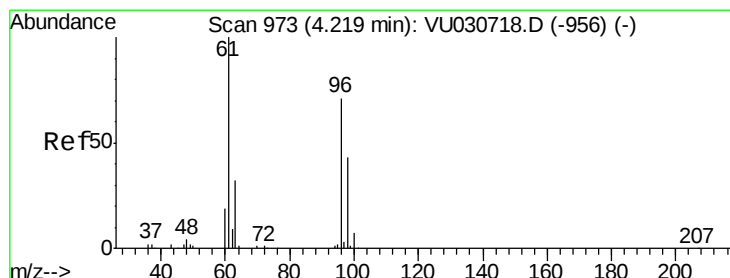
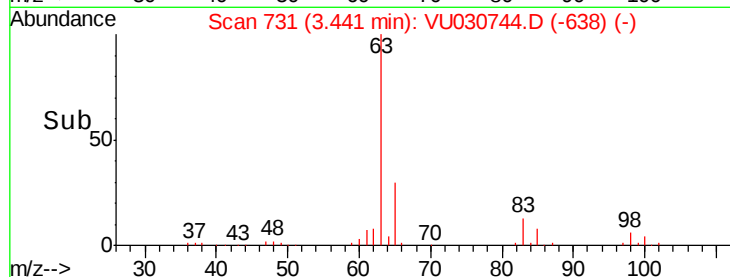
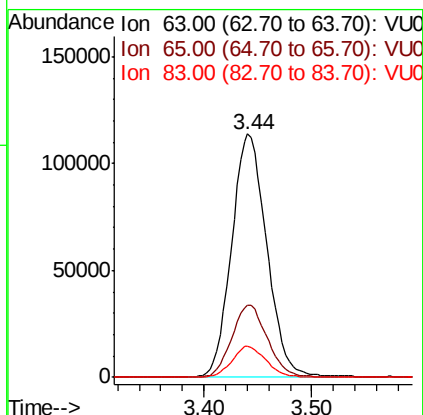
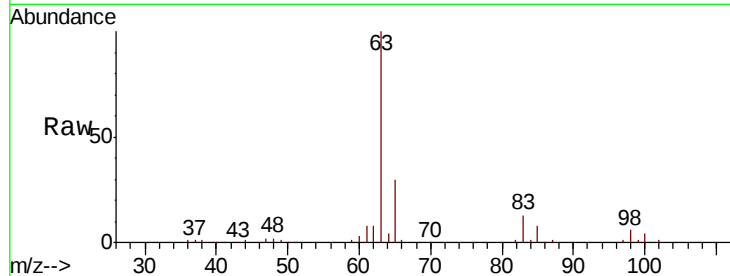




#19
 1,1-Dichloroethane
 Concen: 52.497 ug/L
 RT: 3.44 min Scan# 731
 Delta R.T. 0.00 min
 Lab File: VU030744.D
 Acq: 05 Apr 2019 15:29

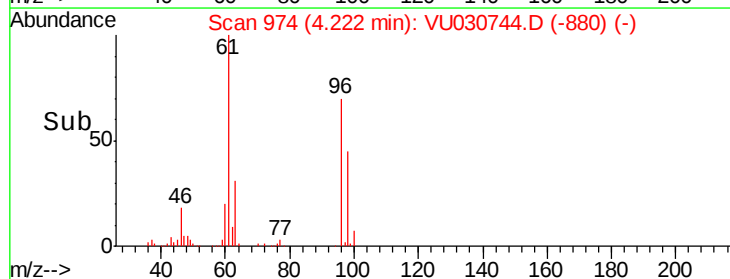
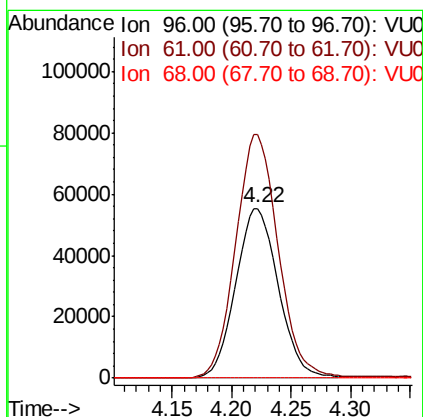
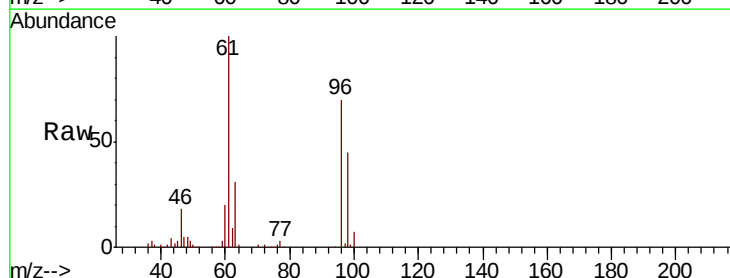
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05050

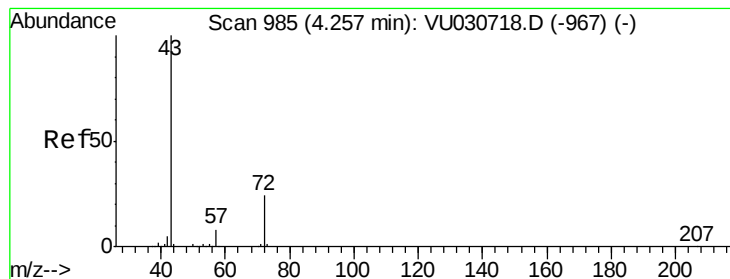
Tot Ion: 63 Resp: 258484
 Ion Ratio Lower Upper
 63 100
 65 29.7 21.4 39.8
 83 12.9 8.5 15.7



#20
 cis-1,2-Dichloroethene
 Concen: 52.107 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU030744.D
 Acq: 05 Apr 2019 15:29

Tgt Ion: 96 Resp: 137272
 Ion Ratio Lower Upper
 96 100
 61 143.3 102.9 191.1
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 114.621 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

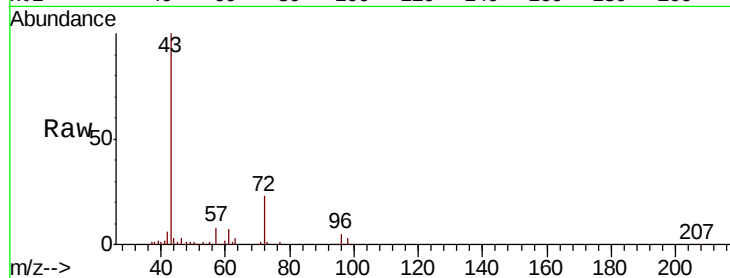
VSTD05050

Tot Ion: 43 Resp: 316277

Ion Ratio Lower Upper

43 100

72 22.5 10.8 32.4



Abundance Ion 43.00 (42.70 to 43.70): VU030718.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU030718.D (-967) (-)

4.26

100000

50000

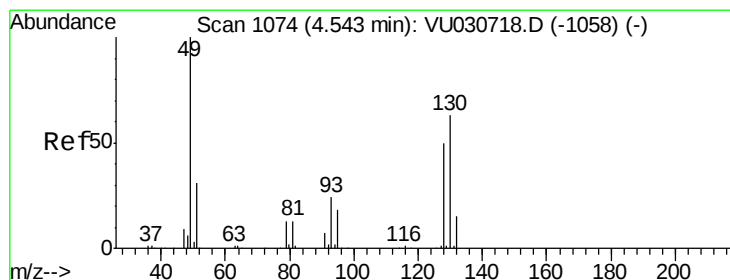
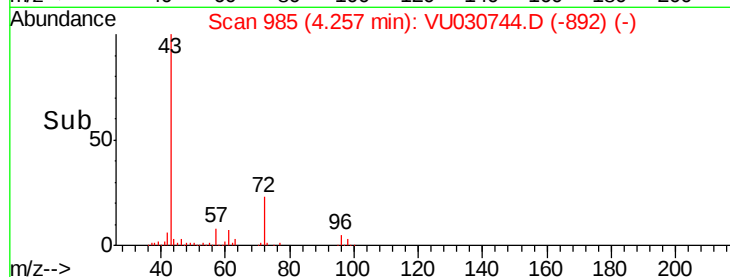
0

Time-->

4.20

4.30

4.40



#23

Bromochloromethane

Concen: 51.666 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Tgt Ion: 128 Resp: 64348

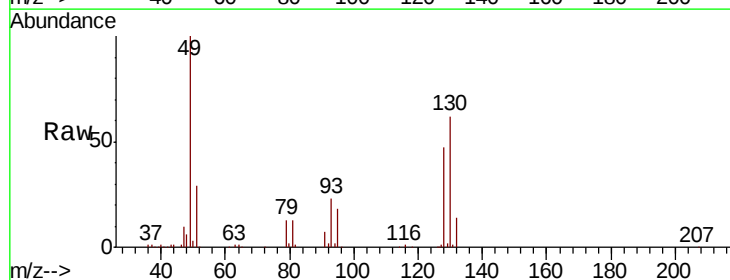
Ion Ratio Lower Upper

128 100

49 210.9 139.9 259.7

130 130.2 86.6 160.8

51 60.7 52.2 78.4



Abundance Ion 128.00 (127.70 to 128.70): VU030718.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU030718.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU030718.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU030718.D (-1058) (-)

80000

60000

40000

20000

0

Time-->

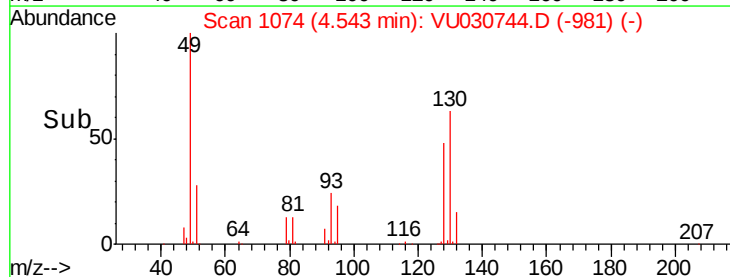
4.45

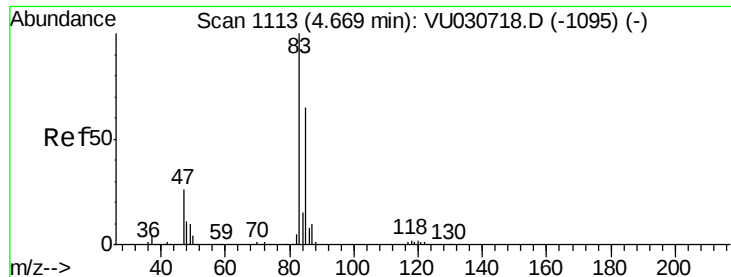
4.50

4.55

4.60

4.65

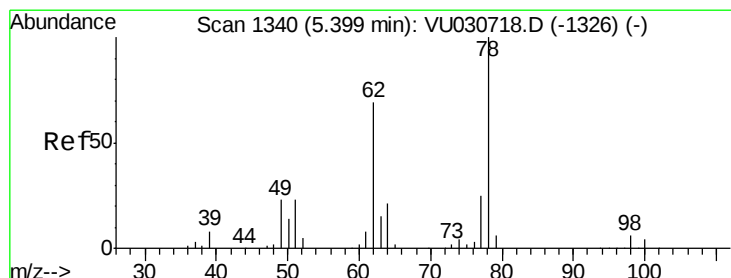
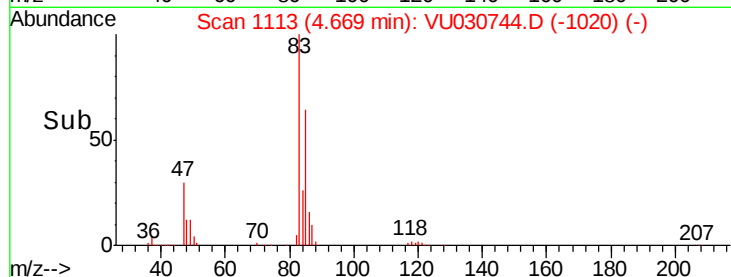
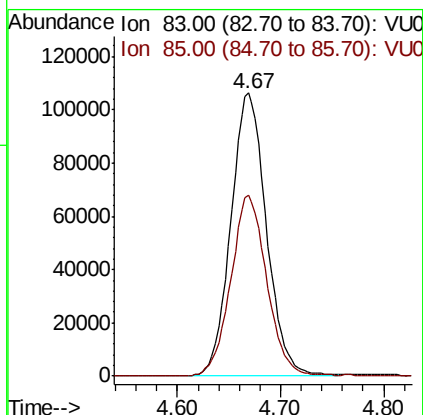
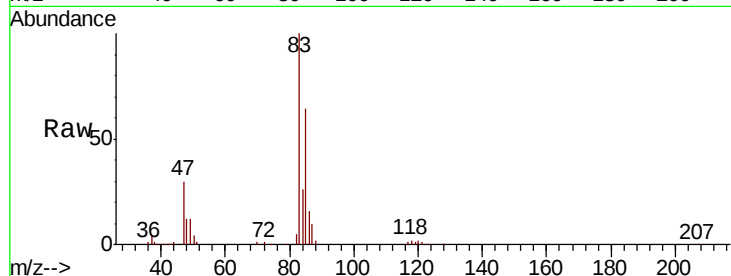




#25
Chloroform
Concen: 51.471 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

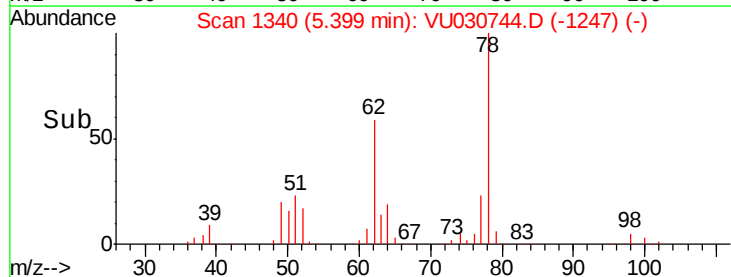
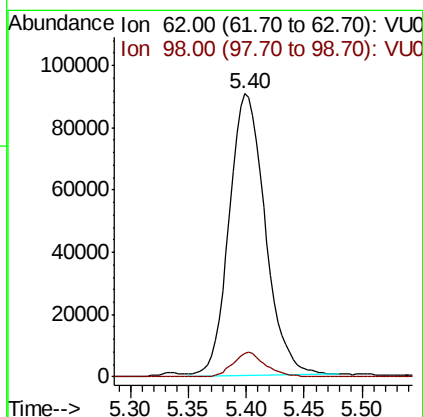
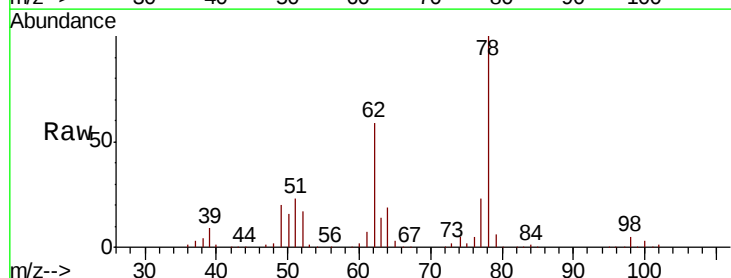
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

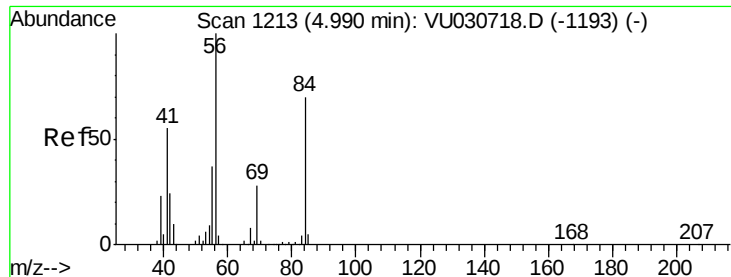
Tot Ion: 83 Resp: 254715
Ion Ratio Lower Upper
83 100
85 63.8 45.8 85.0



#27
1,2-Dichloroethane
Concen: 51.732 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

Tgt Ion: 62 Resp: 195394
Ion Ratio Lower Upper
62 100
98 8.5 7.2 10.8

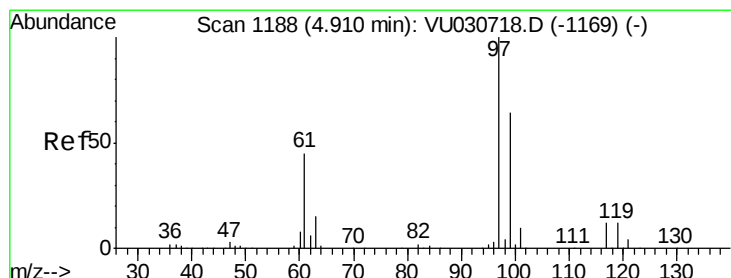
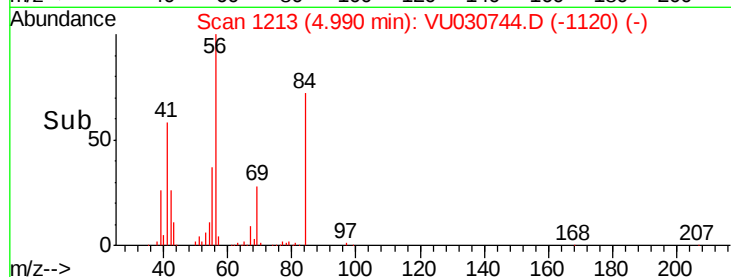
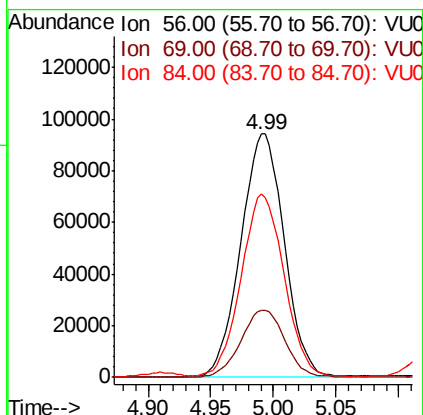
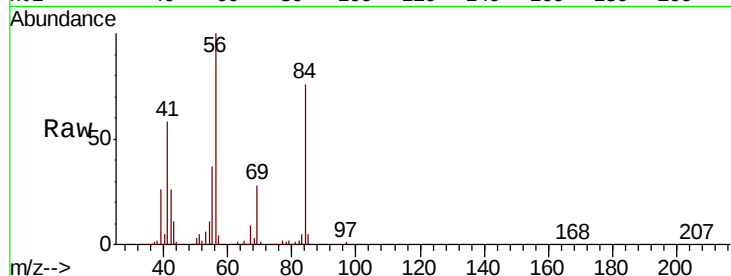




#29
Cyclohexane
Concen: 49.548 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

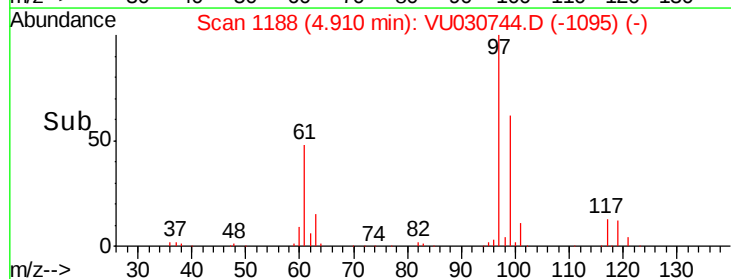
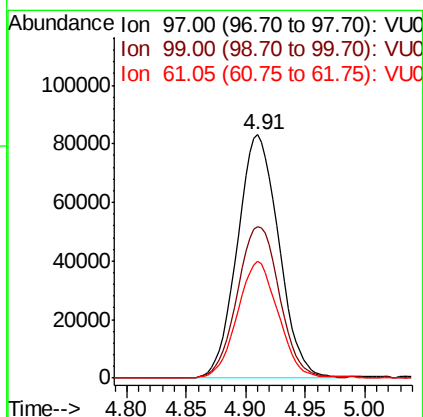
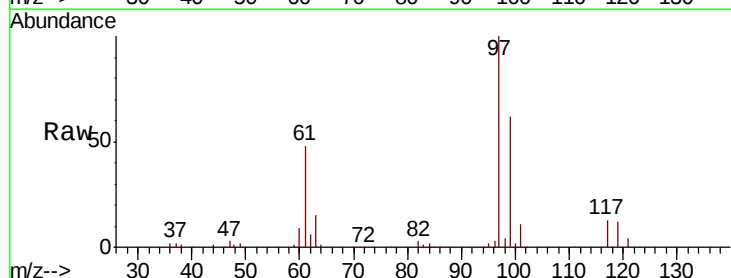
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

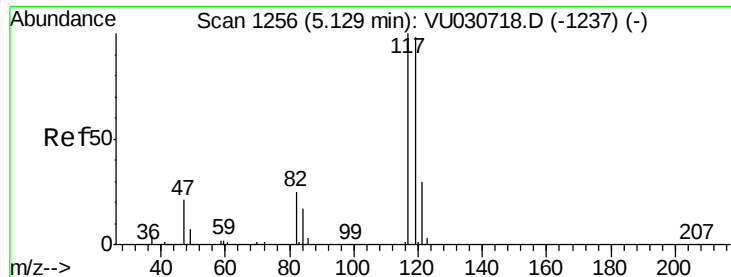
Tot Ion: 56 Resp: 227397
Ion Ratio Lower Upper
56 100
69 28.1 22.0 33.0
84 73.6 58.2 87.2



#30
1,1,1-Trichloroethane
Concen: 51.247 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

Tgt Ion: 97 Resp: 201106
Ion Ratio Lower Upper
97 100
99 63.6 51.4 77.2
61 47.0 37.1 55.7





#31

Carbon tetrachloride

Concen: 51.025 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

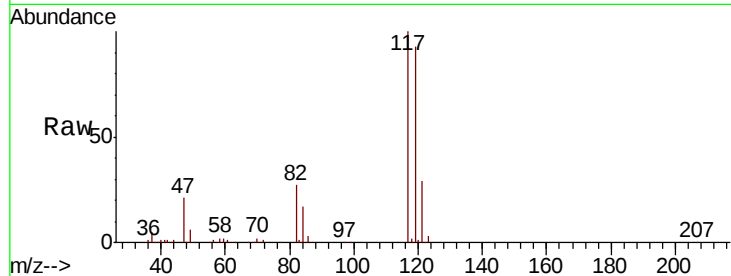
VSTD05050

Tot Ion:117 Resp: 172551

Ion Ratio Lower Upper

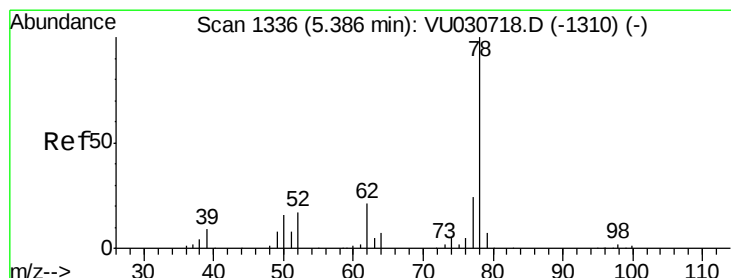
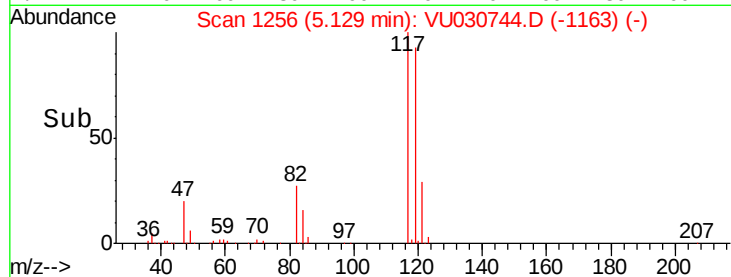
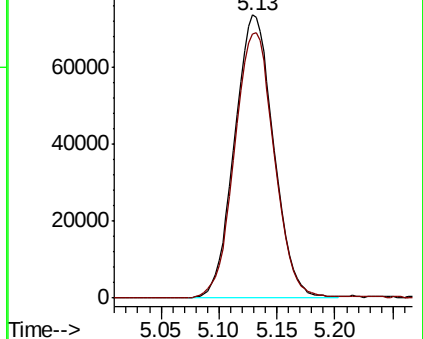
117 100

119 95.1 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.413 ug/L

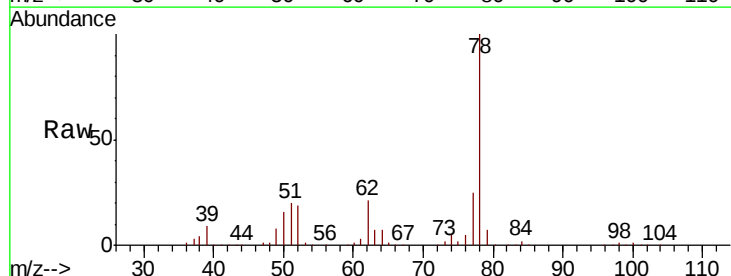
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

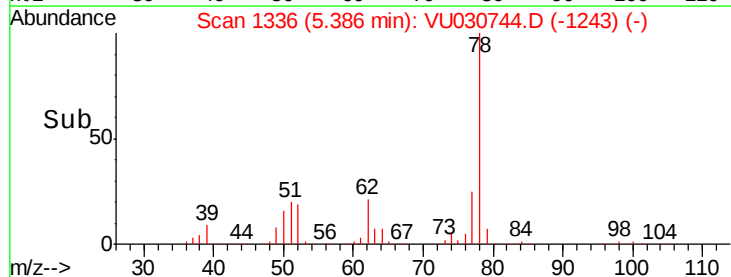
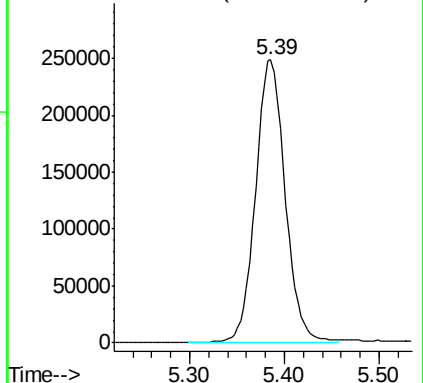
Lab File: VU030744.D

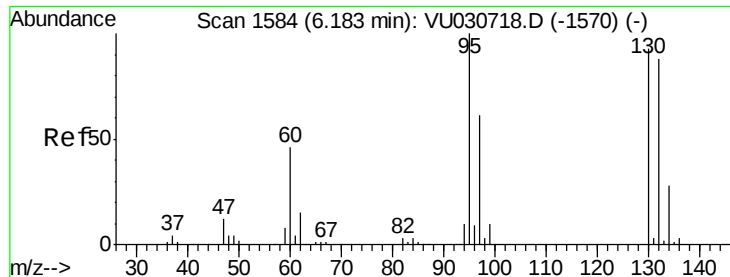
Acq: 05 Apr 2019 15:29

Tgt Ion: 78 Resp: 541758



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.829 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

Tot Ion: 95 Resp: 131367

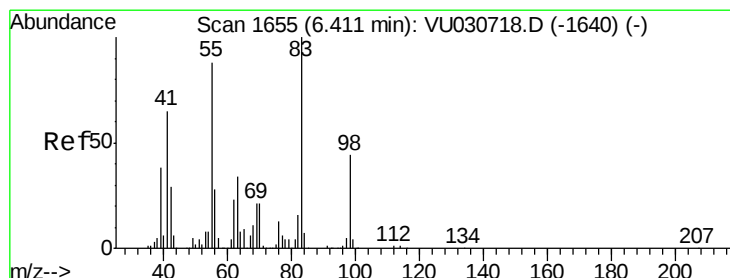
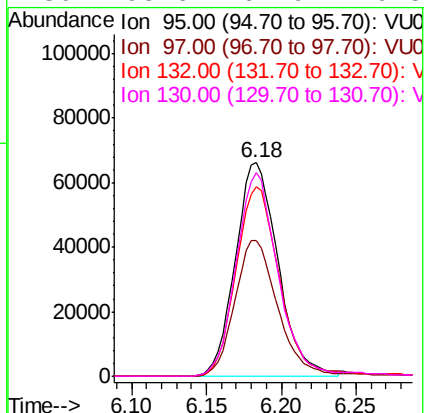
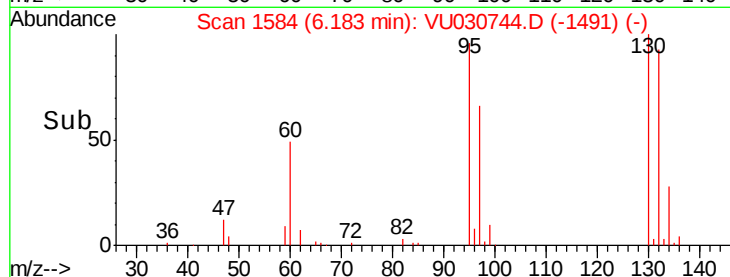
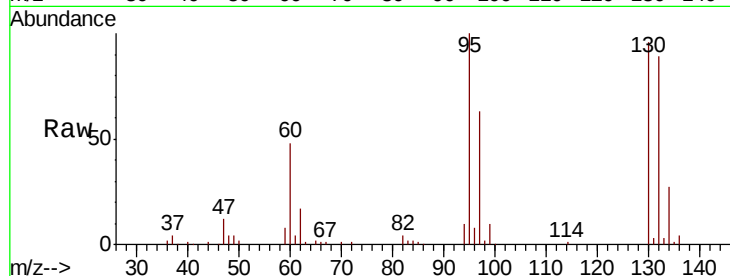
Ion Ratio Lower Upper

95 100

97 63.5 44.5 82.7

132 88.7 61.5 114.1

130 95.6 64.9 120.5



#35

Methylcyclohexane

Concen: 51.133 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

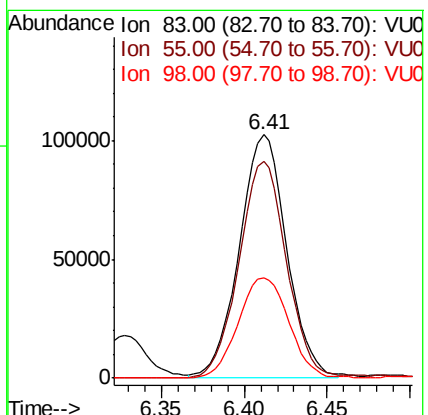
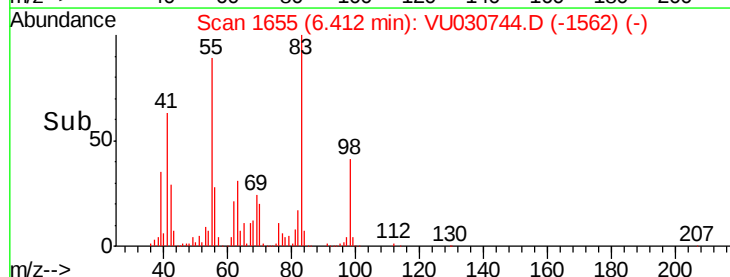
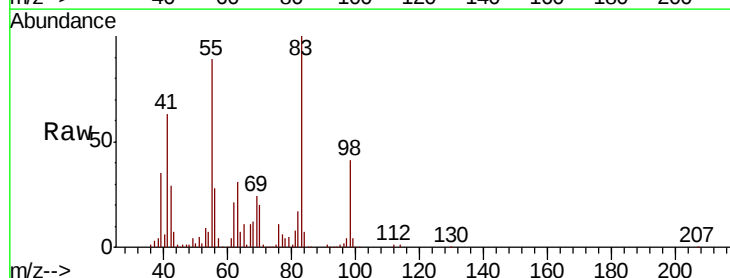
Tgt Ion: 83 Resp: 203945

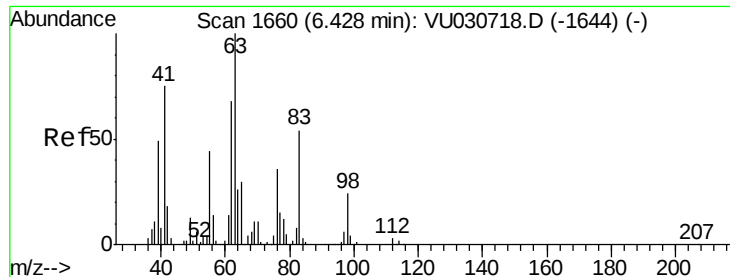
Ion Ratio Lower Upper

83 100

55 89.2 71.6 107.4

98 43.7 35.4 53.0





#37

1,2-Dichloropropane

Concen: 50.922 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

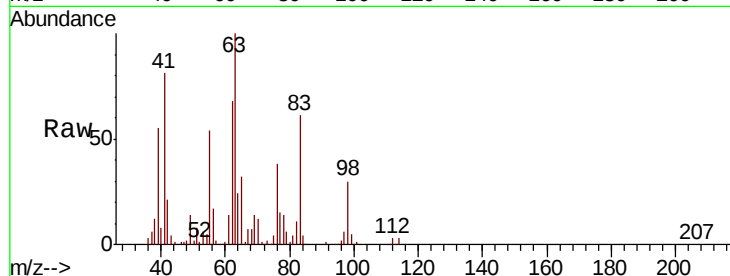
VSTD05050

Tot Ion: 63 Resp: 151939

Ion Ratio Lower Upper

63 100

112 3.5 3.0 4.4



Abundance Ion 63.00 (62.70 to 63.70): VU030718.D (-1644) (-)

Ion 112.00 (111.70 to 112.70): VU030718.D (-1644) (-)

6.43

80000

60000

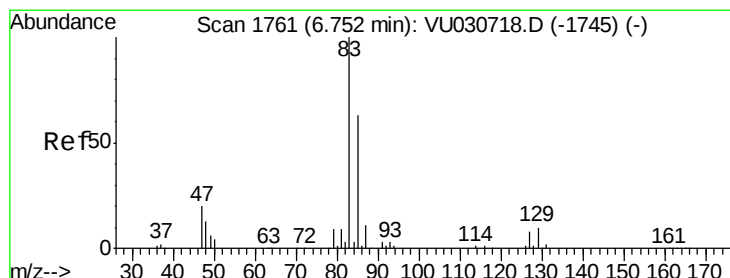
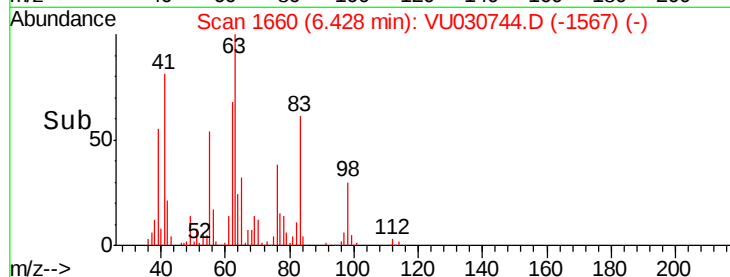
40000

20000

0

6.35 6.40 6.45 6.50

Time-->



#38

Bromodichloromethane

Concen: 51.815 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

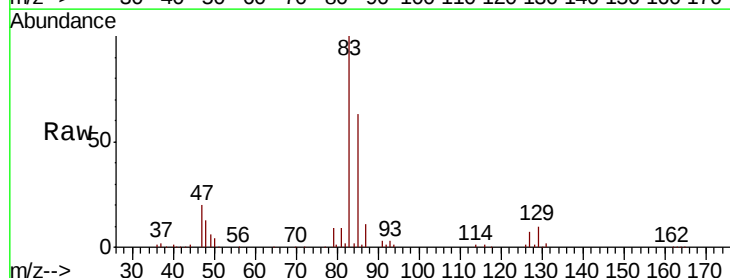
Tgt Ion: 83 Resp: 186509

Ion Ratio Lower Upper

83 100

85 63.4 46.5 86.3

127 7.2 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VU030718.D (-1745) (-)

Ion 85.00 (84.70 to 85.70): VU030718.D (-1745) (-)

Ion 127.00 (126.70 to 127.70): VU030718.D (-1745) (-)

6.75

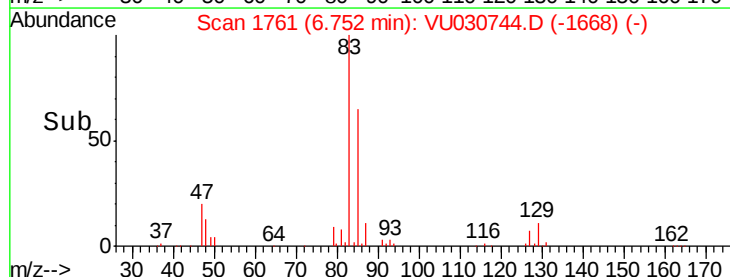
100000

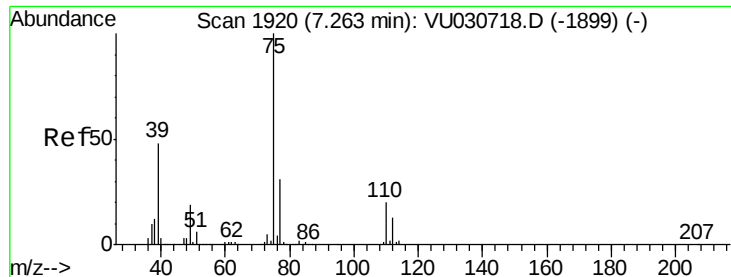
50000

0

6.70 6.75 6.80 6.85

Time-->





#39

cis-1,3-Dichloropropene

Concen: 48.916 ug/L

RT: 7.27 min Scan# 1921

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

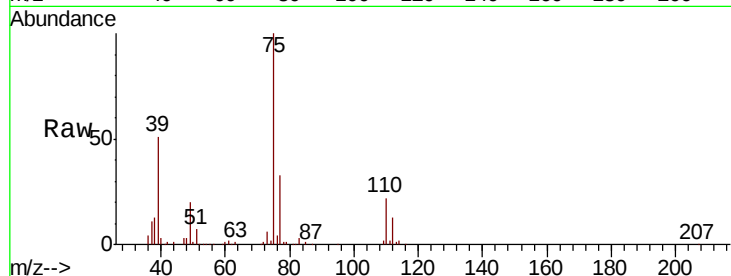
VSTD05050

Tot Ion: 75 Resp: 207742

Ion Ratio Lower Upper

75 100

77 32.7 23.1 42.9



Abundance Ion 75.00 (74.70 to 75.70): VU030718.D (-1899) (-)

Ion 77.00 (76.70 to 77.70): VU030718.D (-1899) (-)

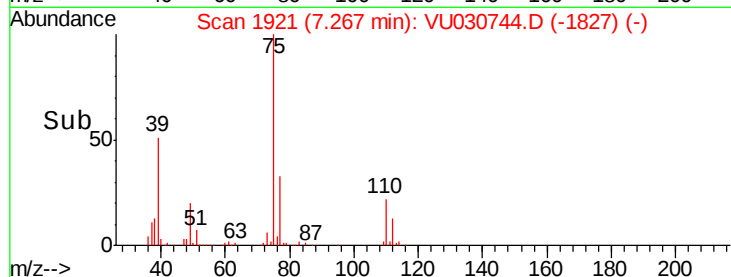
7.27

100000

50000

0

Time-->



#40

4-Methyl-2-pentanone

Concen: 107.032 ug/L

RT: 7.46 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

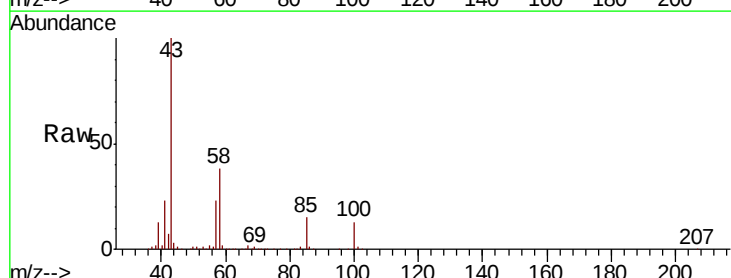
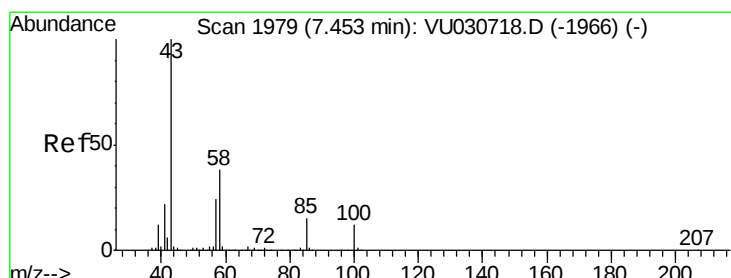
Tgt Ion: 43 Resp: 513557

Ion Ratio Lower Upper

43 100

58 36.9 29.7 44.5

100 12.1 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VU030718.D (-1966) (-)

Ion 58.00 (57.70 to 58.70): VU030718.D (-1966) (-)

Ion 100.00 (99.70 to 100.70): VU030718.D (-1966) (-)

7.46

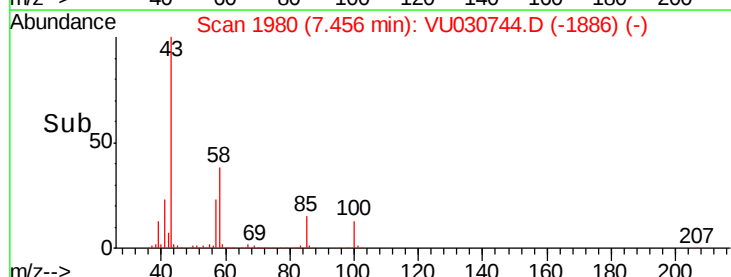
300000

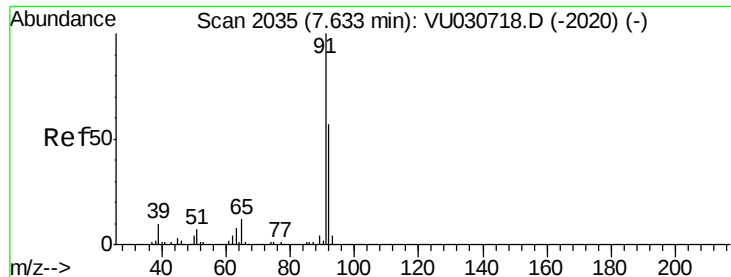
200000

100000

0

Time-->





#42

Toluene

Concen: 52.210 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

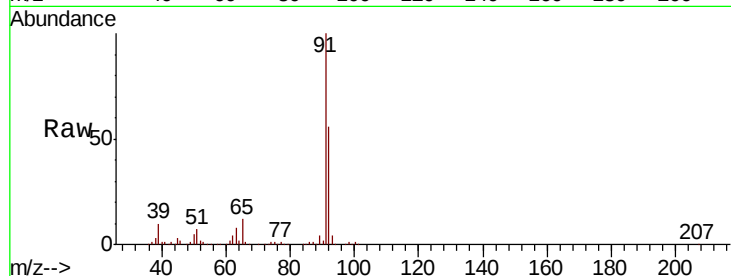
VSTD05050

Tot Ion: 91 Resp: 561577

Ion Ratio Lower Upper

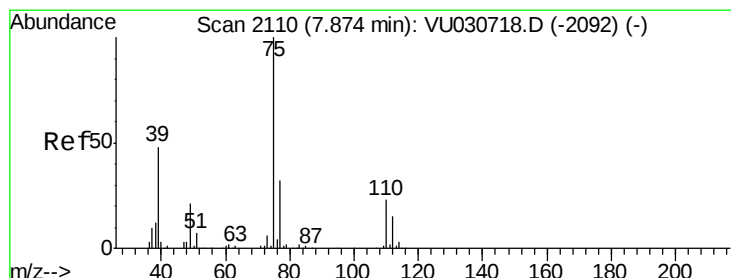
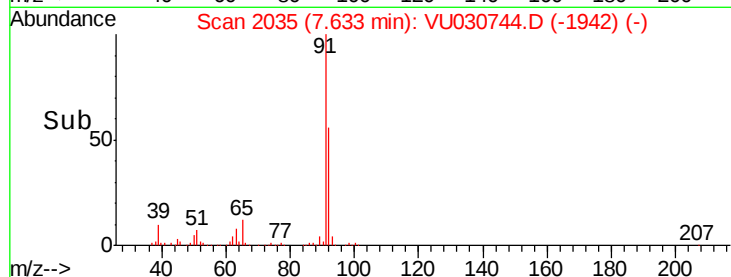
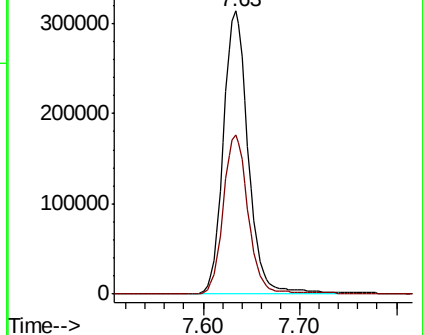
91 100

92 56.2 40.0 74.4



Abundance Ion 91.00 (90.70 to 91.70): VU030744.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU030744.D (-1942) (-)



#44

trans-1,3-Dichloropropene

Concen: 52.848 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU030744.D

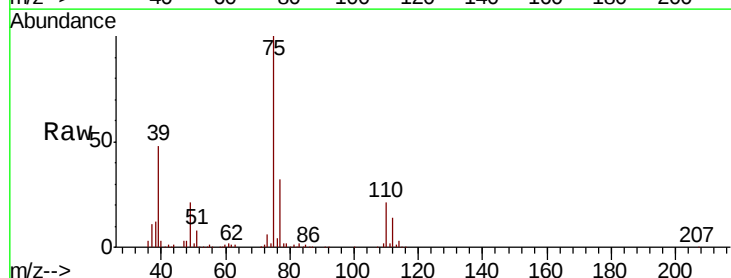
Acq: 05 Apr 2019 15:29

Tgt Ion: 75 Resp: 197794

Ion Ratio Lower Upper

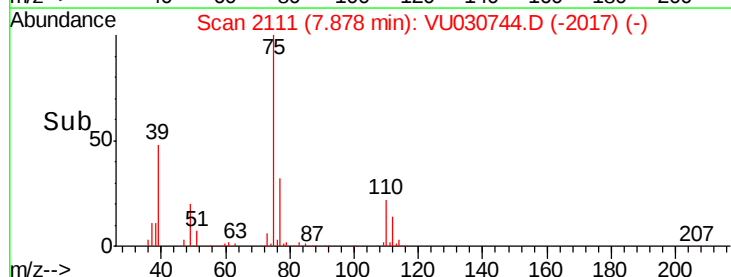
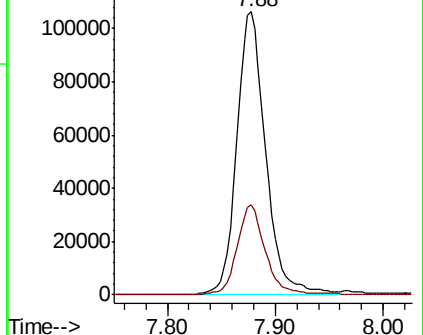
75 100

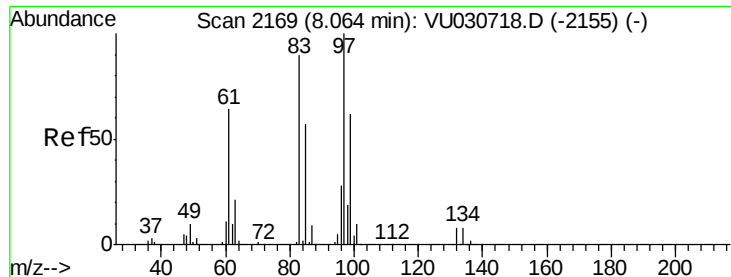
77 31.8 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VU030744.D (-2017) (-)

Ion 77.00 (76.70 to 77.70): VU030744.D (-2017) (-)

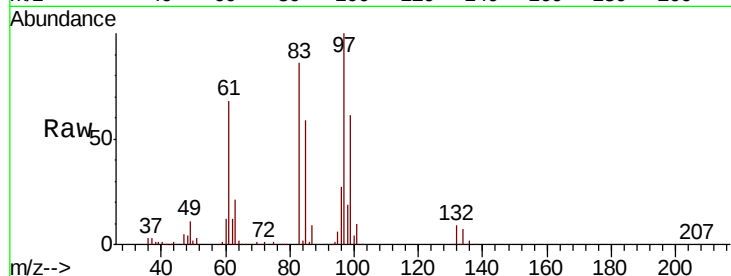




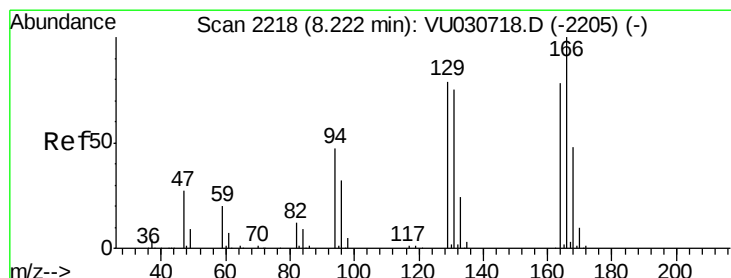
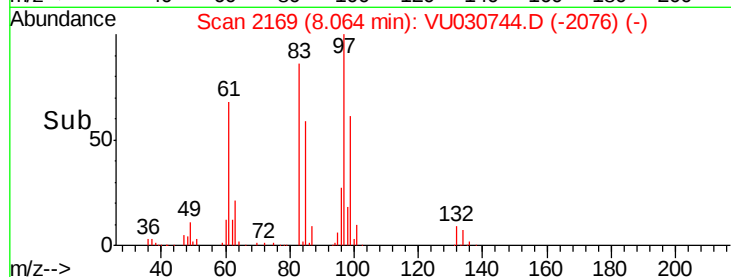
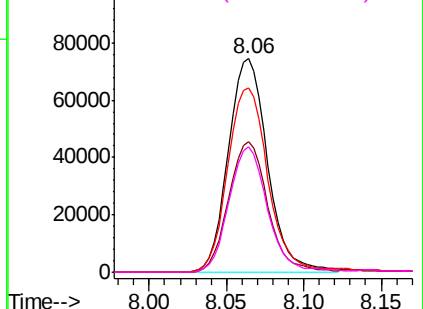
#45
1,1,2-Trichloroethane
Concen: 51.918 ug/L
RT: 8.06 min Scan# 2169
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tot Ion:	97	Resp:	131381
Ion	Ratio	Lower	Upper
97	100		
99	61.0	44.0	81.8
83	86.2	65.3	121.3
85	58.5	42.5	78.9

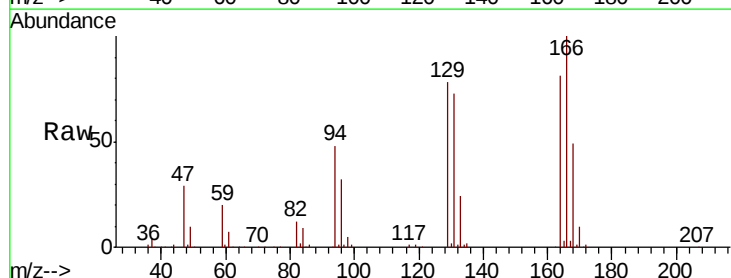


Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 83.00 (82.70 to 83.70): VU0
Ion 85.00 (84.70 to 85.70): VU0

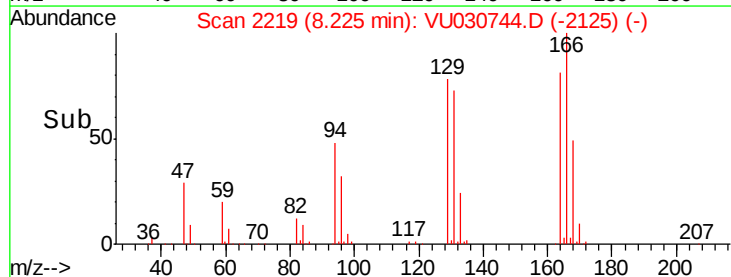
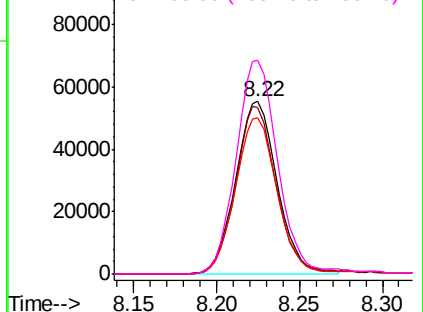


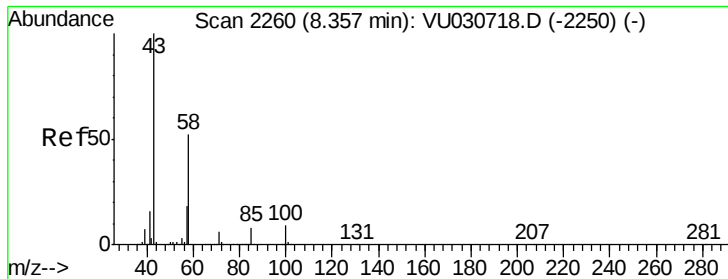
#46
Tetrachloroethene
Concen: 51.202 ug/L
RT: 8.22 min Scan# 2219
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

Tgt Ion:	164	Resp:	96208
Ion	Ratio	Lower	Upper
164	100		
129	96.7	67.4	125.2
131	90.9	65.9	122.5
166	123.9	88.6	164.6



Abundance Ion 164.00 (163.70 to 164.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V
Ion 166.00 (165.70 to 166.70): V

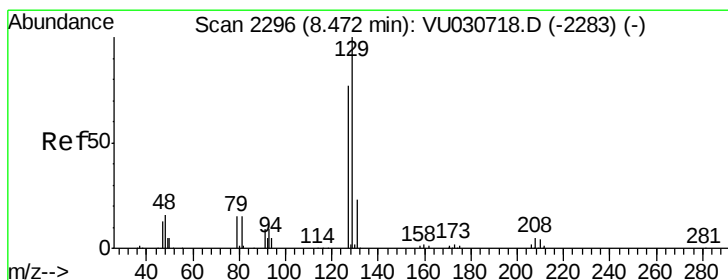
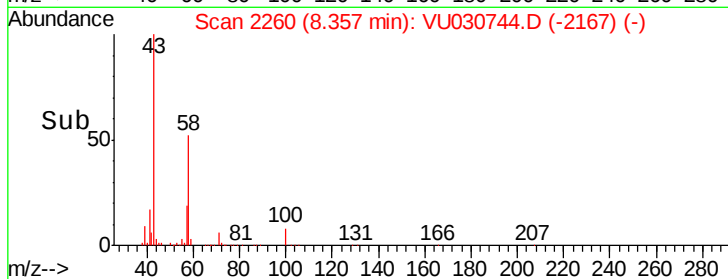
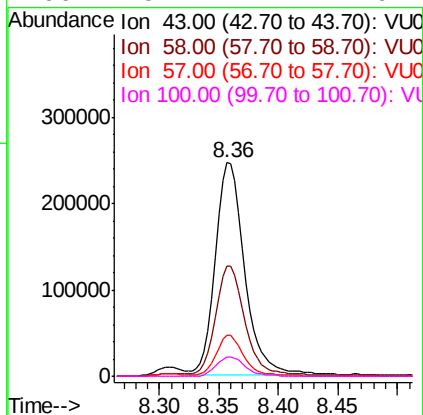
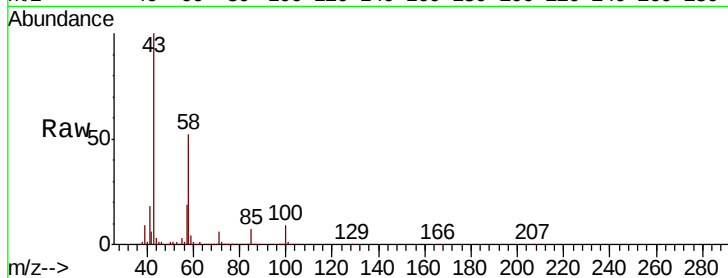




#48
 2-Hexanone
 Concen: 112.385 ug/L
 RT: 8.36 min Scan# 2260
 Delta R.T. 0.00 min
 Lab File: VU030744.D
 Acq: 05 Apr 2019 15:29

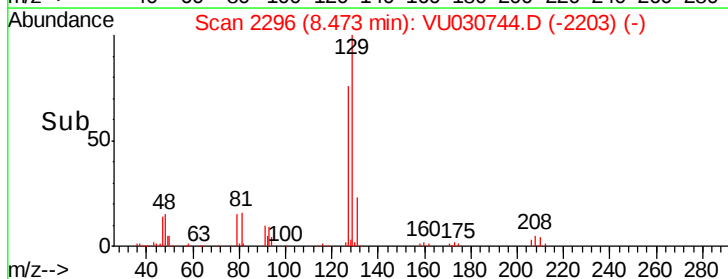
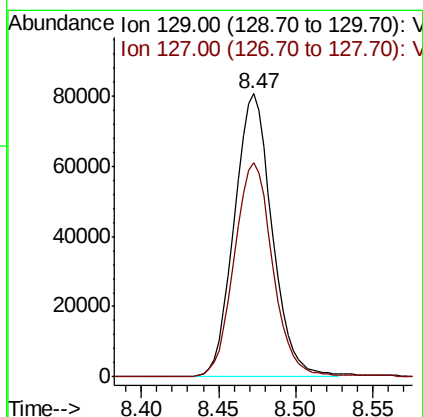
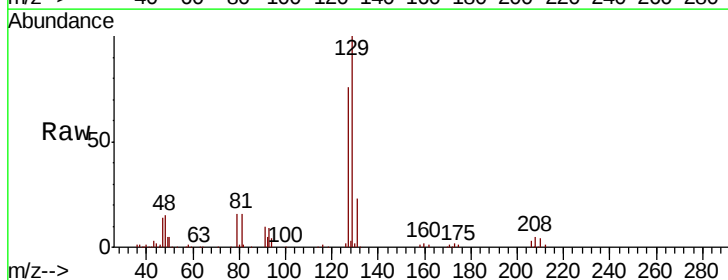
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

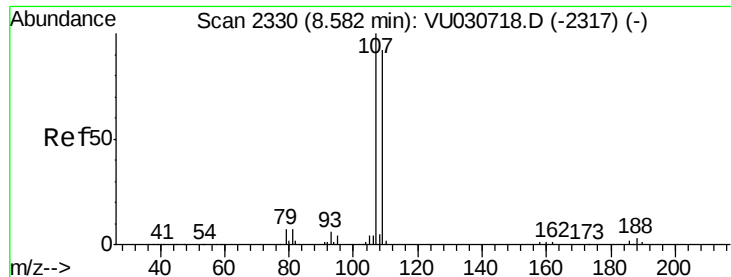
Tot Ion:	43	Resp:	420708
Ion	Ratio	Lower	Upper
43	100		
58	51.4	41.9	62.9
57	18.1	14.3	21.5
100	9.2	7.1	10.7



#49
 Dibromochloromethane
 Concen: 51.022 ug/L
 RT: 8.47 min Scan# 2296
 Delta R.T. 0.00 min
 Lab File: VU030744.D
 Acq: 05 Apr 2019 15:29

Tgt Ion:	129	Resp:	137001
Ion	Ratio	Lower	Upper
129	100		
127	75.7	54.5	101.3

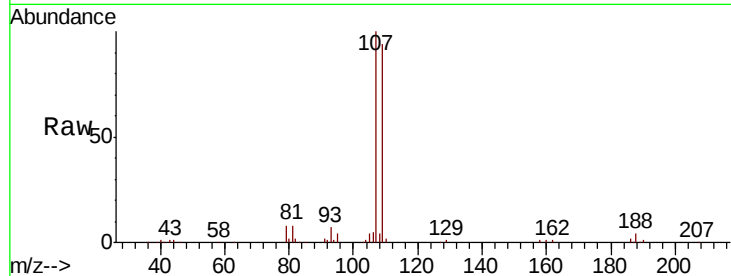




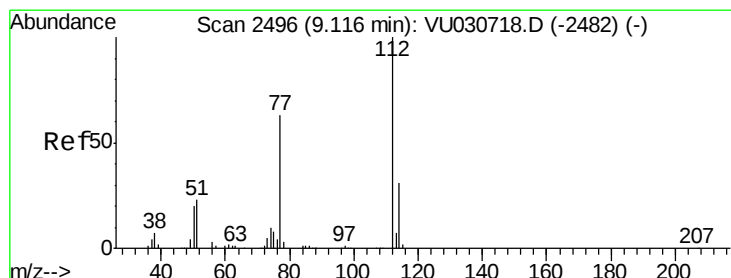
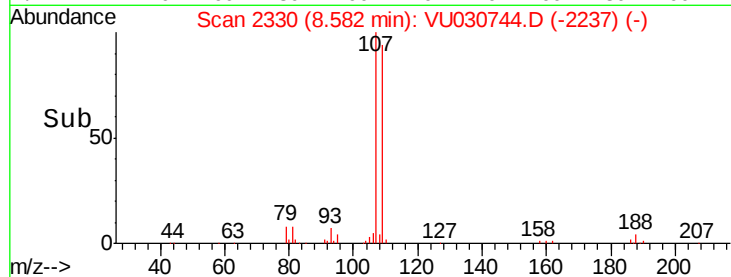
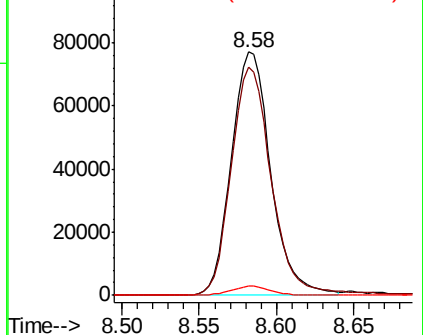
#50
1,2-Dibromoethane
Concen: 50.025 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

Tot Ion:107 Resp: 136982
Ion Ratio Lower Upper
107 100
109 93.7 66.4 123.2
188 3.6 2.6 4.0

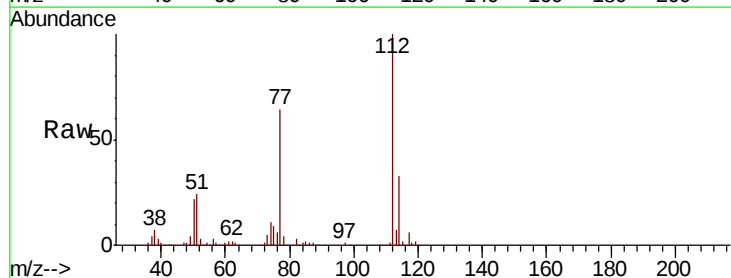


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

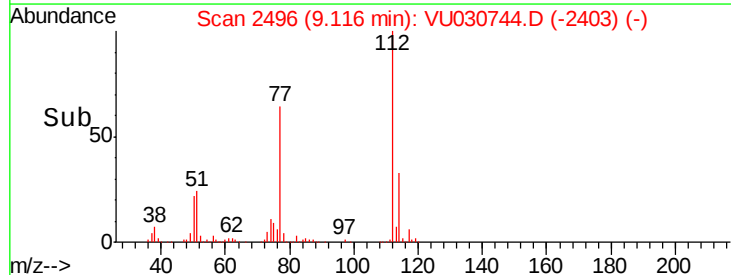
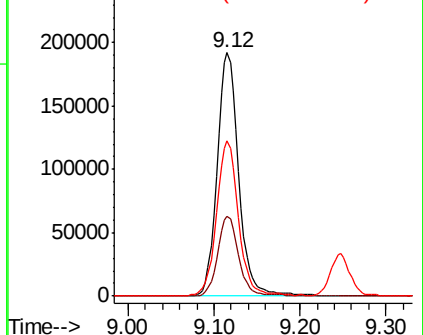


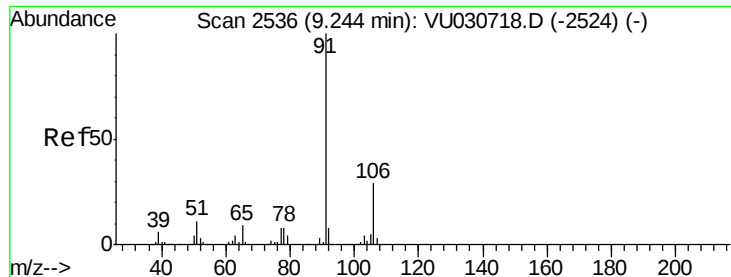
#51
Chlorobenzene
Concen: 50.599 ug/L
RT: 9.12 min Scan# 2496
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

Tgt Ion:112 Resp: 333806
Ion Ratio Lower Upper
112 100
114 32.8 22.2 41.2
77 63.5 51.7 77.5



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V

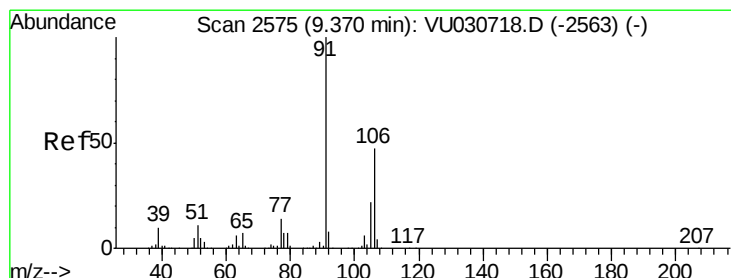
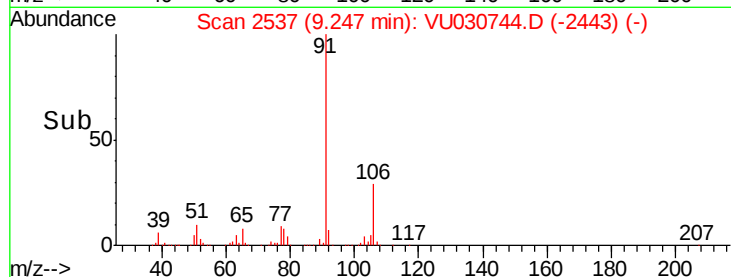
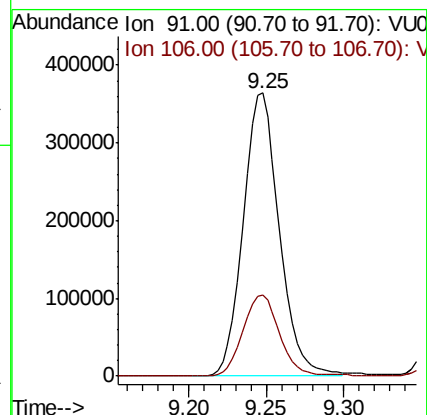
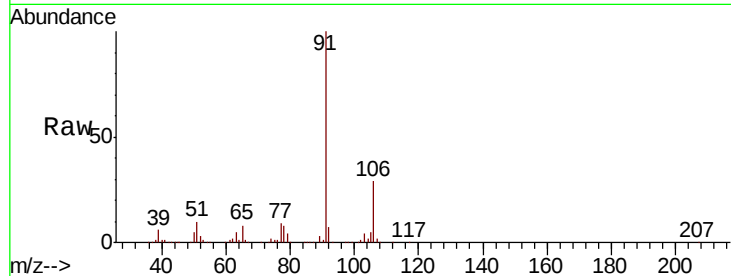




#52
Ethylbenzene
Concen: 50.404 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

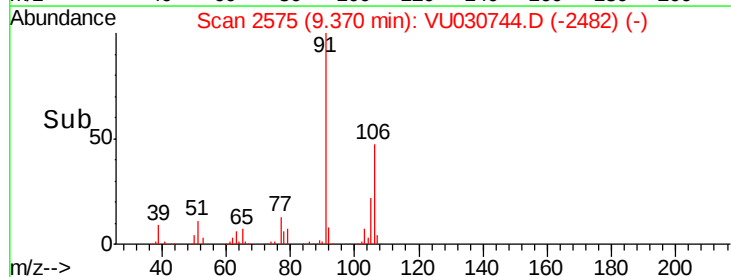
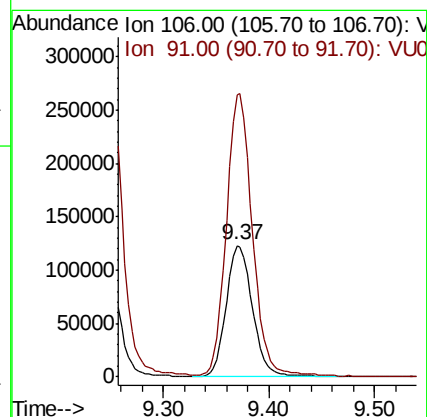
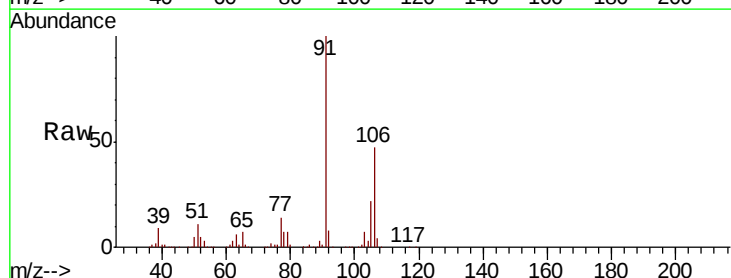
Instrument :
MSVOA_U
ClientSampleId :
VSTD05050

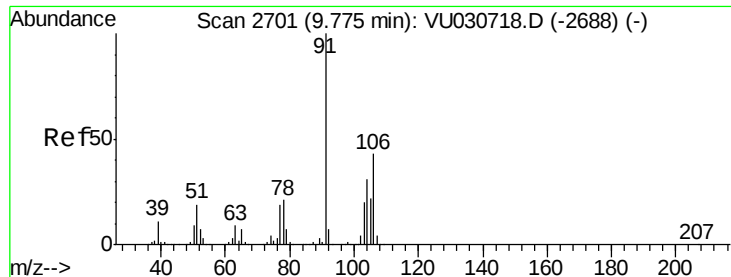
Tot Ion: 91 Resp: 590965
Ion Ratio Lower Upper
91 100
106 28.8 20.4 37.8



#53
m,p-Xylene
Concen: 51.885 ug/L
RT: 9.37 min Scan# 2575
Delta R.T. 0.00 min
Lab File: VU030744.D
Acq: 05 Apr 2019 15:29

Tgt Ion: 106 Resp: 212165
Ion Ratio Lower Upper
106 100
91 214.8 148.0 274.8





#54

o-xylene

Concen: 50.761 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

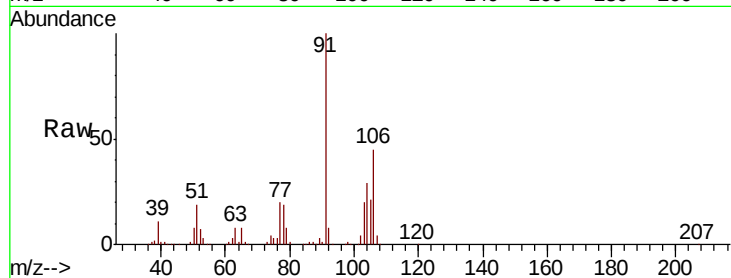
VSTD05050

Tot Ion:106 Resp: 206466

Ion Ratio Lower Upper

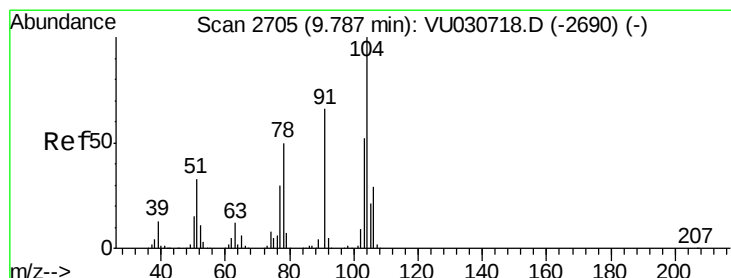
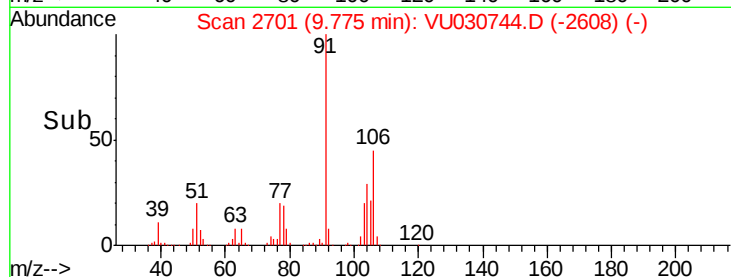
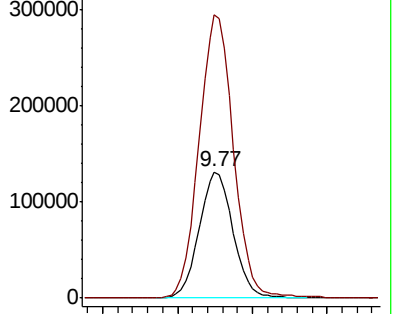
106 100

91 224.5 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.332 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030744.D

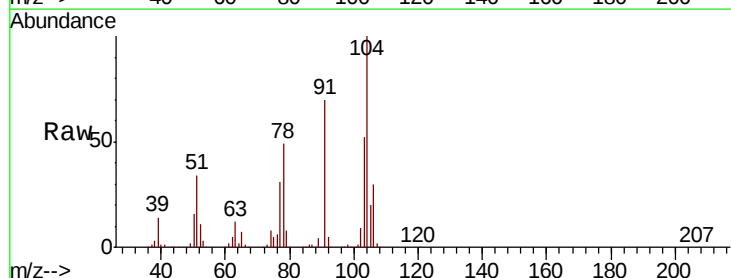
Acq: 05 Apr 2019 15:29

Tgt Ion:104 Resp: 365100

Ion Ratio Lower Upper

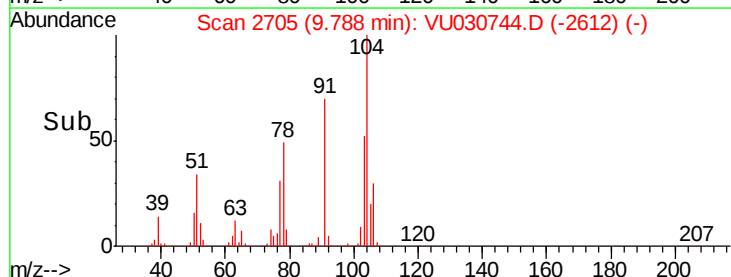
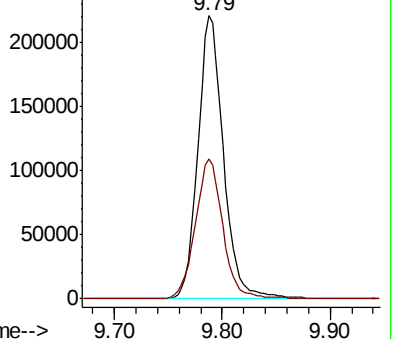
104 100

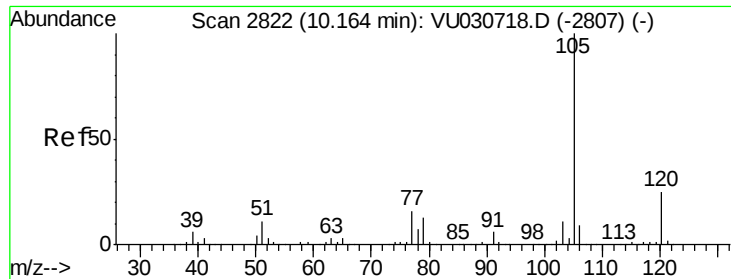
78 49.5 35.1 65.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 51.473 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

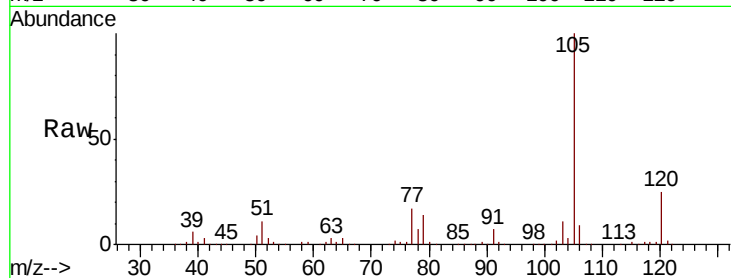
Tot Ion:105 Resp: 551217

Ion Ratio Lower Upper

105 100

120 25.3 20.4 30.6

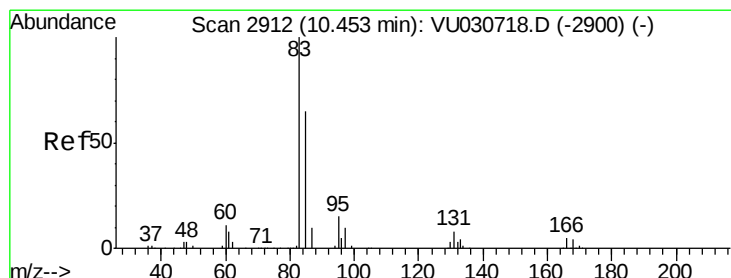
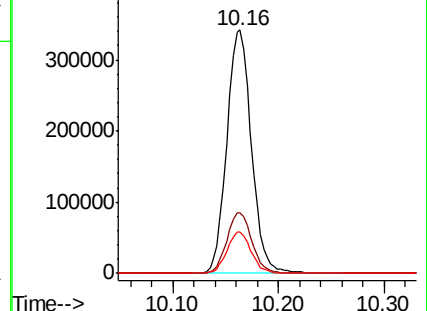
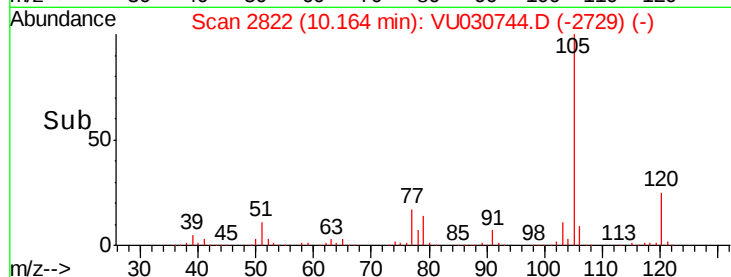
77 16.8 13.4 20.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 51.341 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

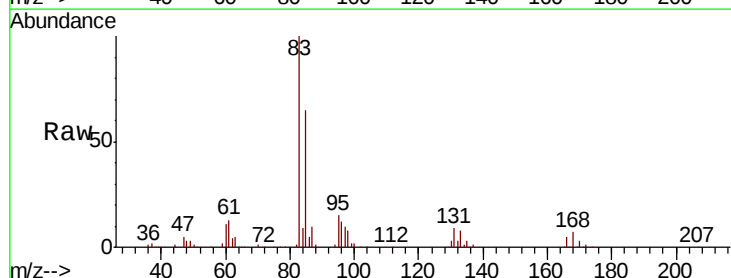
Tgt Ion: 83 Resp: 234995

Ion Ratio Lower Upper

83 100

85 65.1 45.3 84.1

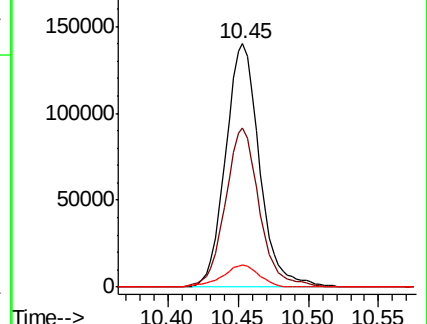
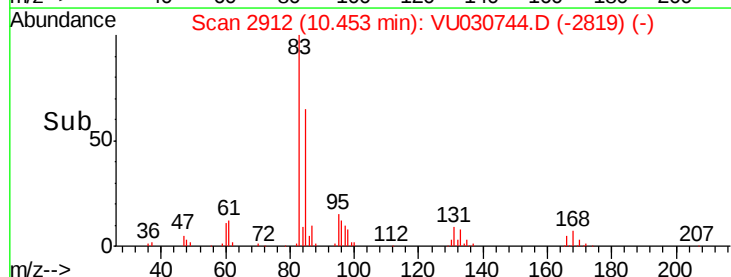
131 9.0 6.7 10.1

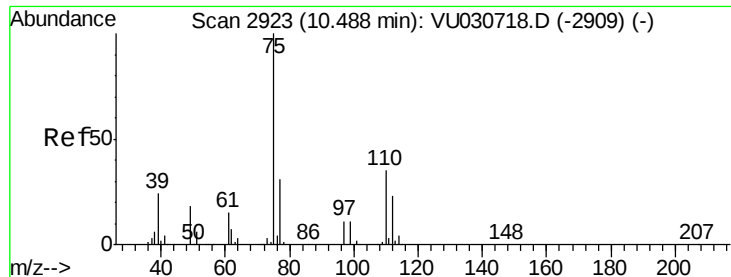


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 53.477 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

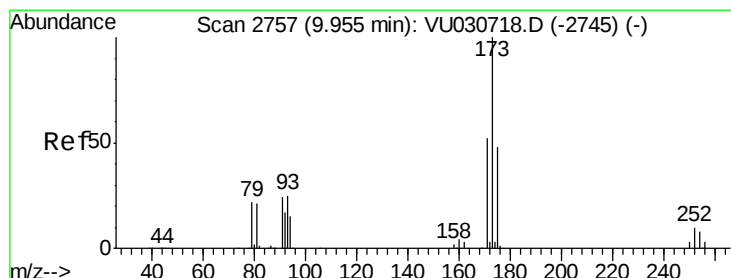
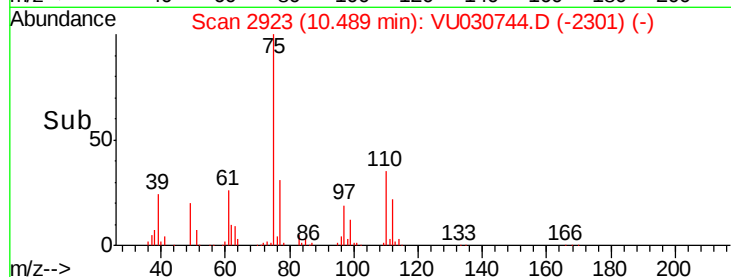
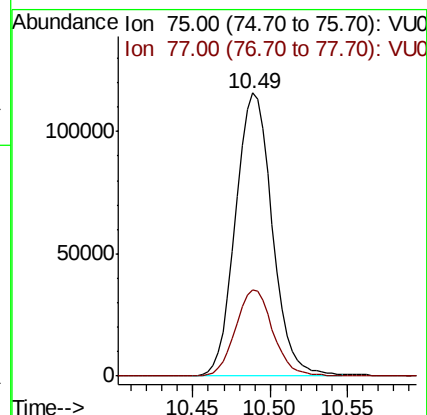
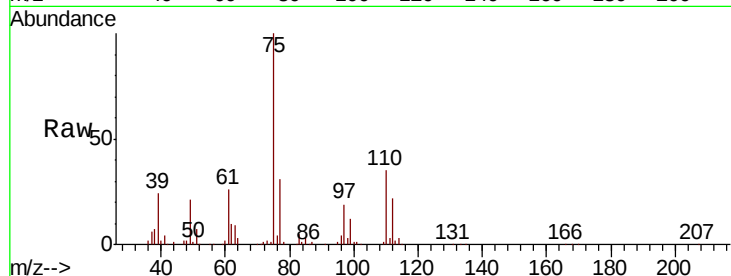
VSTD05050

Tot Ion: 75 Resp: 191104

Ion Ratio Lower Upper

75 100

77 30.9 26.1 39.1



#61

Bromoform

Concen: 49.531 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

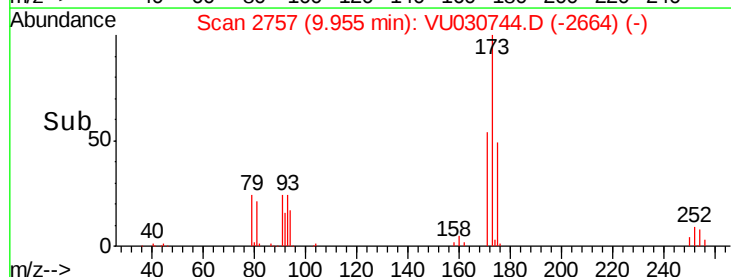
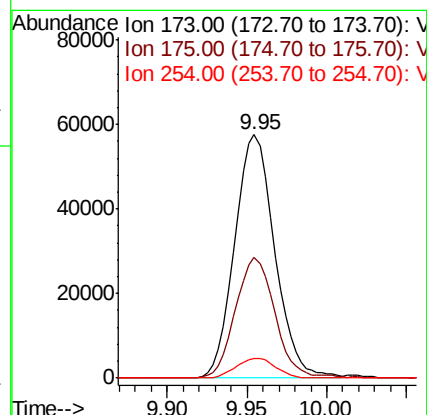
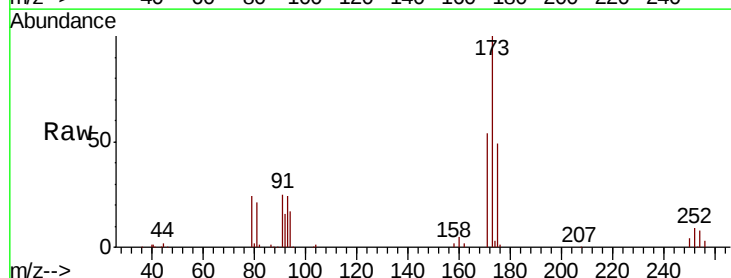
Tgt Ion: 173 Resp: 98600

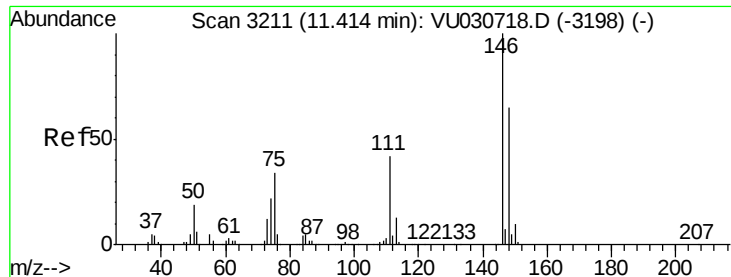
Ion Ratio Lower Upper

173 100

175 48.7 39.1 58.7

254 8.1 7.3 10.9





#62

1,3-Dichlorobenzene

Concen: 49.348 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

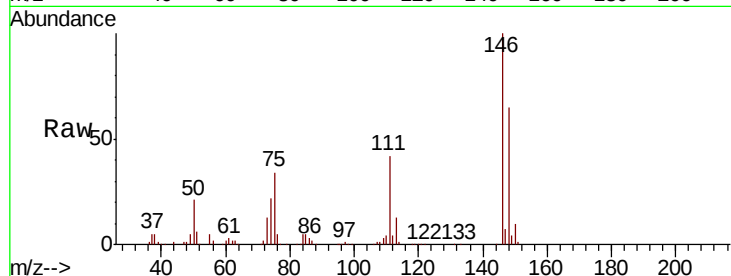
Tot Ion:146 Resp: 235025

Ion Ratio Lower Upper

146 100

111 42.0 30.9 57.5

148 64.9 44.7 82.9

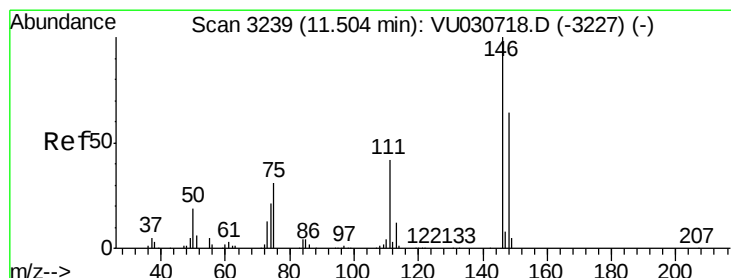
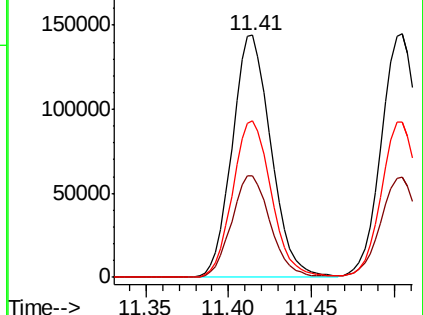
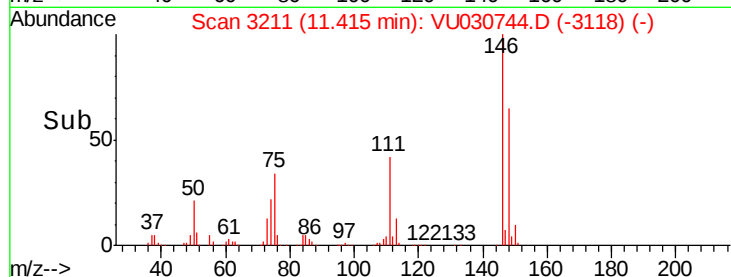


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 49.053 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

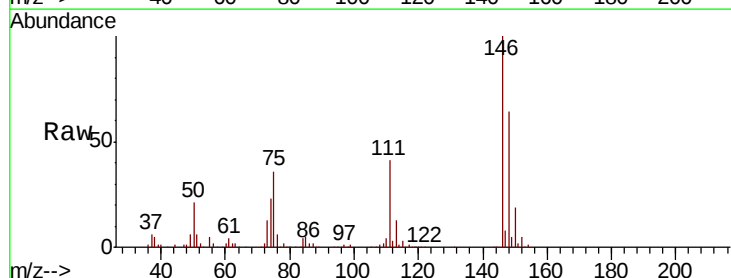
Tgt Ion:146 Resp: 237632

Ion Ratio Lower Upper

146 100

111 41.0 27.7 51.5

148 63.8 45.4 84.4

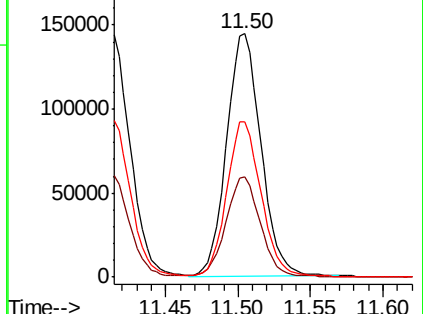
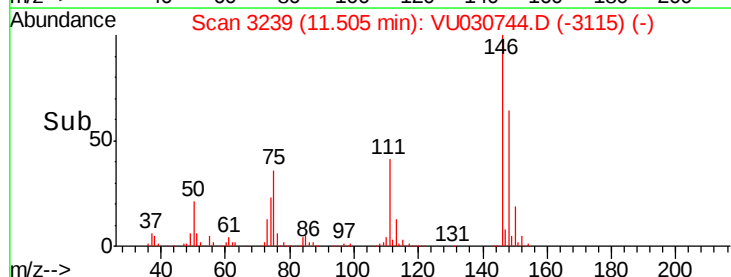


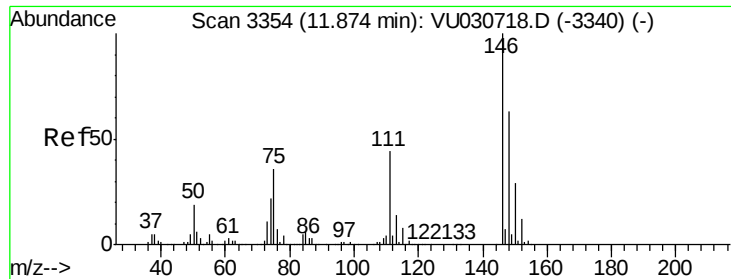
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

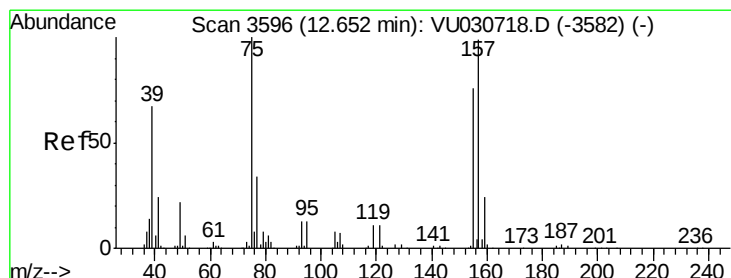
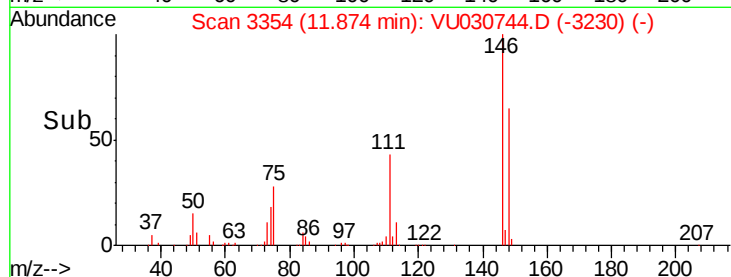
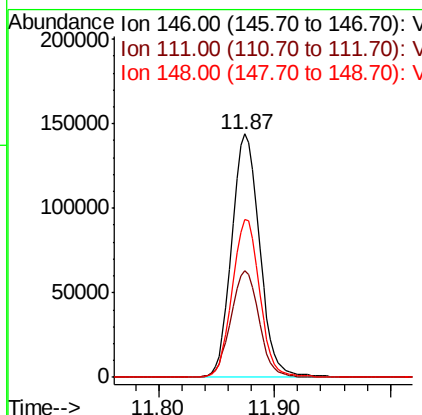
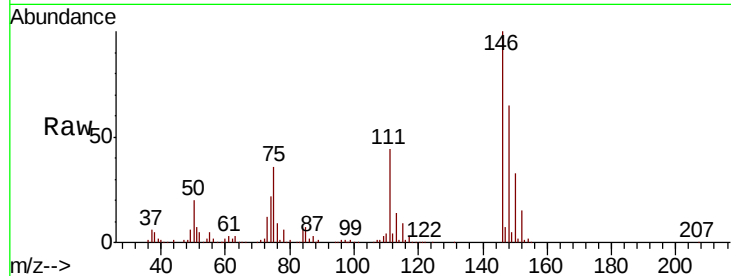




#65
 1,2-Dichlorobenzene
 Concen: 50.219 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030744.D
 Acq: 05 Apr 2019 15:29

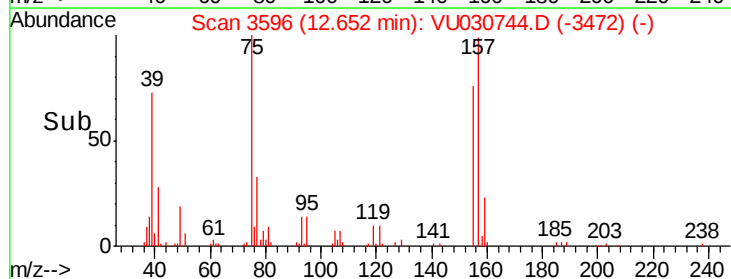
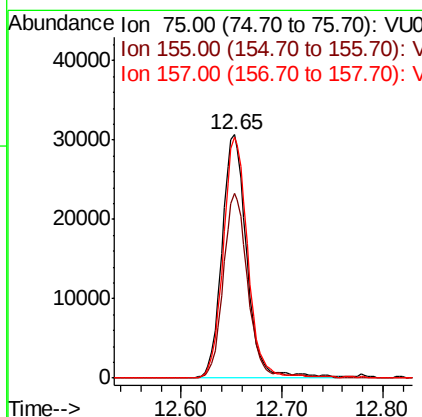
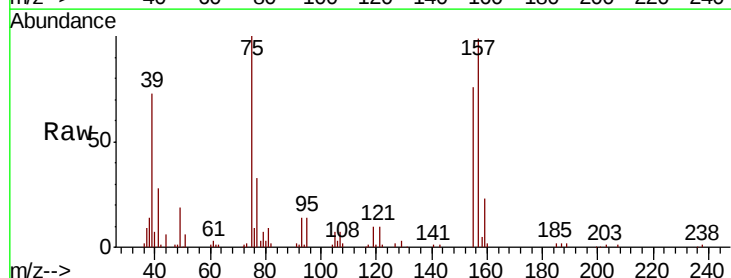
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

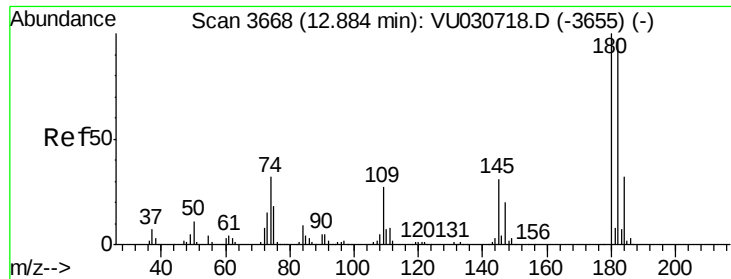
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.6	34.9	52.3
148	64.7	50.4	75.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 51.947 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030744.D
 Acq: 05 Apr 2019 15:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.8	64.1	96.1
157	99.1	80.6	120.8

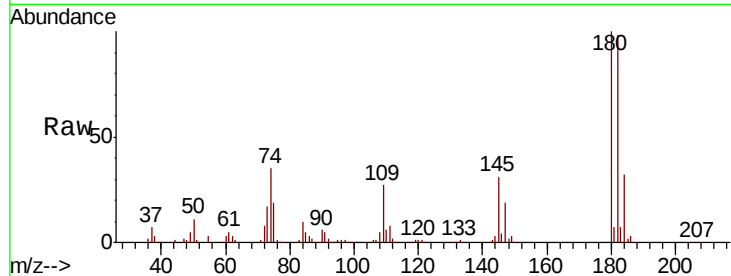




#67
 1,3,5-Trichlorobenzene
 Concen: 49.110 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030744.D
 Acq: 05 Apr 2019 15:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05050

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	78.3	117.5
184	30.7	24.7	37.1
145	30.3	24.2	36.4



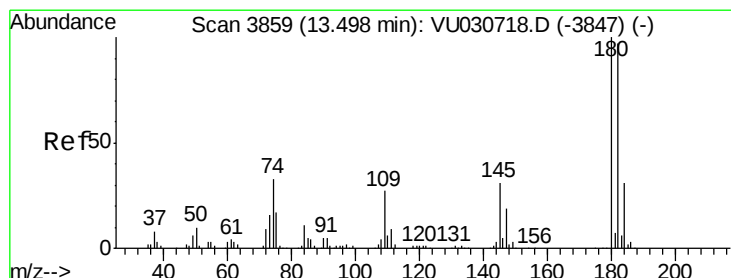
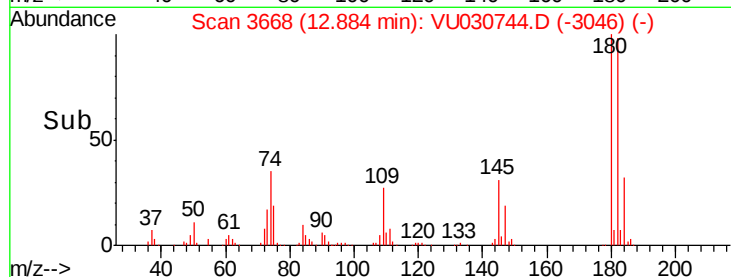
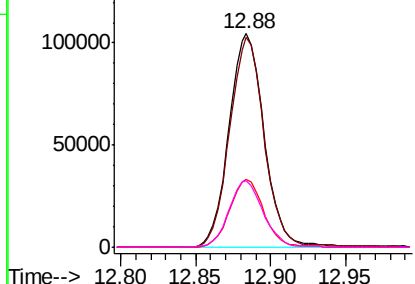
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

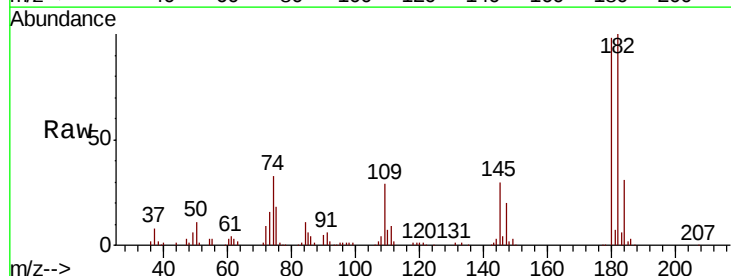
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 47.893 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. 0.00 min
 Lab File: VU030744.D
 Acq: 05 Apr 2019 15:29

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.4	76.7	115.1
145	31.3	24.4	36.6

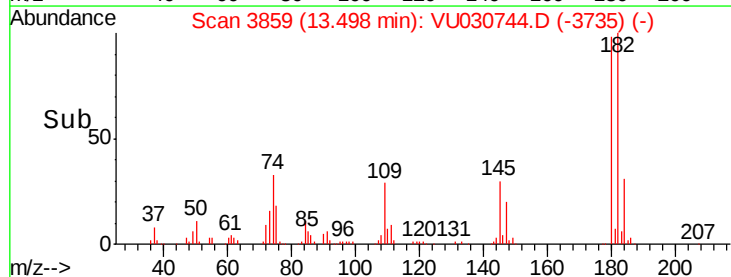
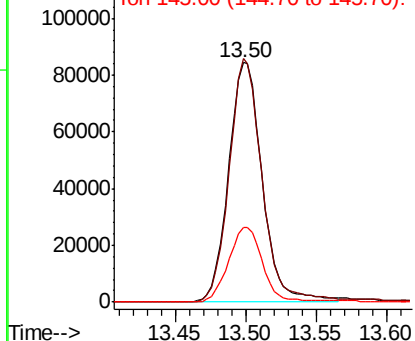


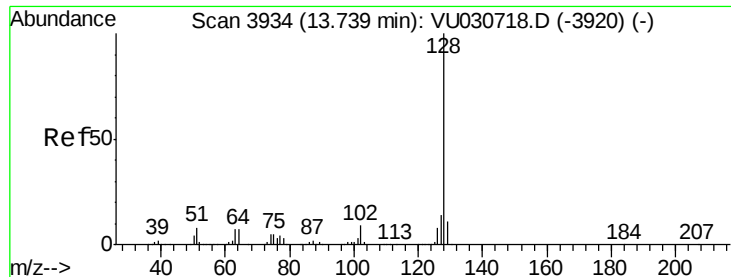
Abundance

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





#69

Naphthalene

Concen: 49.421 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD05050

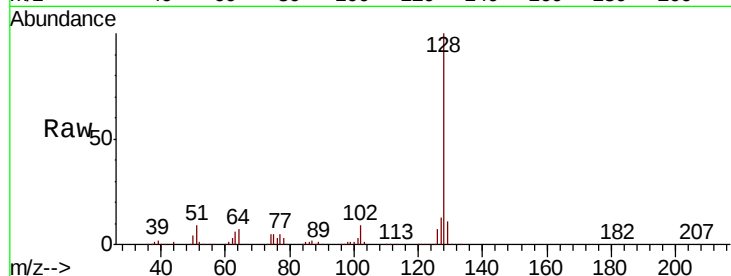
Tot Ion:128 Resp: 474116

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

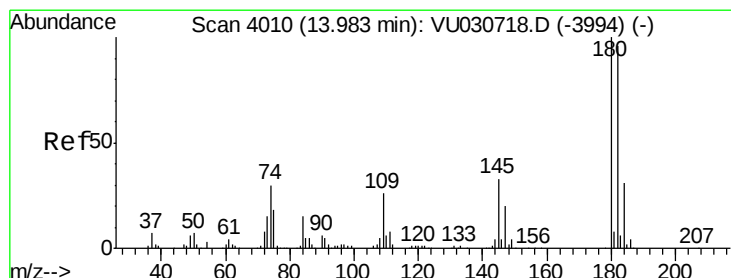
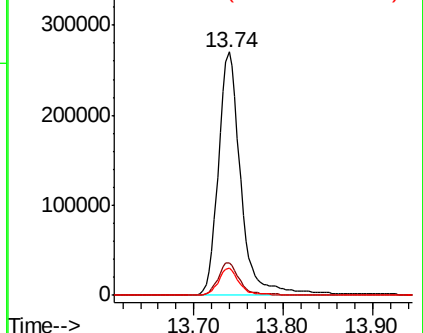
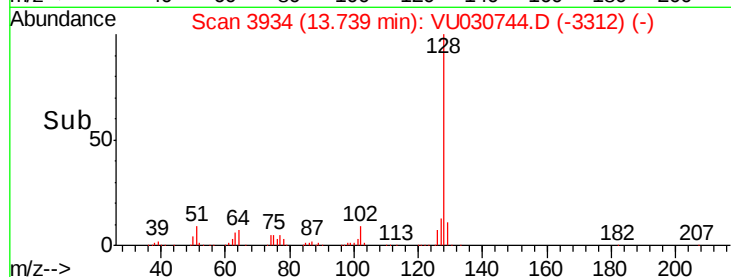
129 10.2 8.6 12.8



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



#70

1,2,3-Trichlorobenzene

Concen: 49.471 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030744.D

Acq: 05 Apr 2019 15:29

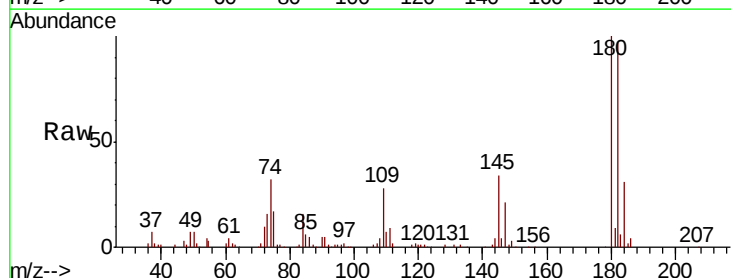
Tgt Ion:180 Resp: 152960

Ion Ratio Lower Upper

180 100

182 94.1 78.1 117.1

145 32.3 26.6 40.0



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

