

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
 Data File : VU030685.D
 Acq On : 04 Apr 2019 14:32
 Operator : JC/SP
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Quant Time: Apr 04 14:51:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 02 08:36:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	458401	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	442059	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	206076	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	187540	50.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	101.68%
7) Chloroethane-d5	1.68	69	147449	50.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.86%
11) 1,1-Dichloroethene-d2	2.27	63	358020	51.16	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.32%
21) 2-Butanone-d5	4.17	46	358544	103.39	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.39%
24) Chloroform-d	4.64	84	315162	49.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.16%
26) 1,2-Dichloroethane-d4	5.31	65	208436	50.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.22%
32) Benzene-d6	5.34	84	620230	48.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.86%
36) 1,2-Dichloropropane-d6	6.33	67	218242	50.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.64%
41) Toluene-d8	7.56	98	559694	49.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.32%
43) trans-1,3-Dichloropropene-	7.85	79	100975	49.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.02%
47) 2-Hexanone-d5	8.31	63	219638	93.45	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.45%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	313449	50.50	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.00%
64) 1,2-Dichlorobenzene-d4	11.86	152	203274	49.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.46%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	203214	40.179 ug/L	99
3) Chloromethane	1.32	50	268018	47.381 ug/L	99
5) Vinyl chloride	1.40	62	261168	48.689 ug/L	98
6) Bromomethane	1.62	94	137634	55.933 ug/L	98
8) Chloroethane	1.69	64	147762	48.795 ug/L	99
9) Trichlorofluoromethane	1.88	101	299713	51.238 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	167253	49.992 ug/L	99
12) 1,1-Dichloroethene	2.28	96	166206	50.677 ug/L	99
13) Acetone	2.32	43	317241	90.455 ug/L	98
14) Carbon disulfide	2.47	76	515051	47.496 ug/L	99
15) Methyl Acetate	2.61	43	282156	52.541 ug/L #	100
16) Methylene chloride	2.70	84	195429	50.546 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	172301	50.075 ug/L	98
18) Methyl tert-butyl Ether	2.99	73	583063	51.241 ug/L	99
19) 1,1-Dichloroethane	3.44	63	362816	51.395 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	196436	50.905 ug/L	100
22) 2-Butanone	4.26	43	424615	100.165 ug/L	100

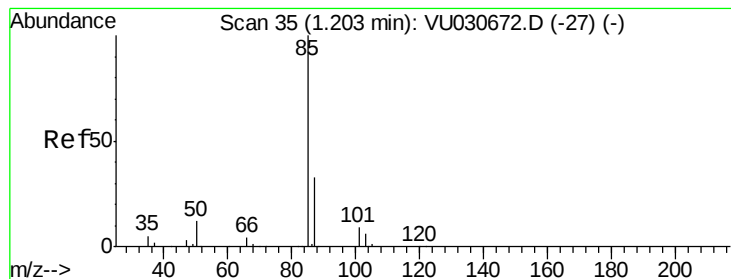
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU040419\
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 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	93840	52.319	ug/L	94
25) Chloroform	4.67	83	351980	52.441	ug/L	98
27) 1,2-Dichloroethane	5.40	62	274213	52.065	ug/L	97
29) Cyclohexane	4.99	56	334175	49.953	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	282871	52.260	ug/L	99
31) Carbon tetrachloride	5.13	117	236946	51.646	ug/L	97
33) Benzene	5.39	78	781744	51.950	ug/L	100
34) Trichloroethene	6.18	95	185837	50.236	ug/L	98
35) Methylcyclohexane	6.41	83	290789	47.769	ug/L	100
37) 1,2-Dichloropropane	6.43	63	213631	50.025	ug/L	99
38) Bromodichloromethane	6.75	83	258058	50.857	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	301397	49.102	ug/L	99
40) 4-Methyl-2-pentanone	7.46	43	721038	100.519	ug/L	100
42) Toluene	7.63	91	791156	50.659	ug/L	100
44) trans-1,3-Dichloropropene	7.88	75	288682	53.450	ug/L	98
45) 1,1,2-Trichloroethane	8.06	97	186217	51.608	ug/L	97
46) Tetrachloroethene	8.22	164	135990	52.631	ug/L	97
48) 2-Hexanone	8.36	43	581205	98.861	ug/L	99
49) Dibromochloromethane	8.47	129	194352	51.837	ug/L	97
50) 1,2-Dibromoethane	8.58	107	198047	51.142	ug/L	96
51) Chlorobenzene	9.12	112	476056	50.296	ug/L	98
52) Ethylbenzene	9.25	91	872208	51.555	ug/L	99
53) m,p-Xylene	9.37	106	309473	50.662	ug/L	100
54) o-xylene	9.77	106	308996	51.841	ug/L	96
55) Styrene	9.79	104	537099	52.311	ug/L	99
56) Isopropylbenzene	10.16	105	799580	50.663	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	333637	50.169	ug/L	97
59) 1,2,3-Trichloropropane	10.49	75	263850	50.760	ug/L	99
61) Bromoform	9.95	173	142660	52.068	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	345630	51.286	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	352580	50.820	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	350860	51.488	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.65	75	76949	50.713	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	253064	50.160	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	217649	49.651	ug/L	97
69) Naphthalene	13.74	128	745466	47.825	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	229301	49.537	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 40.179 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

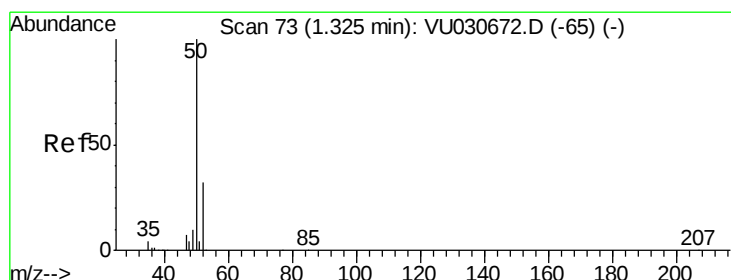
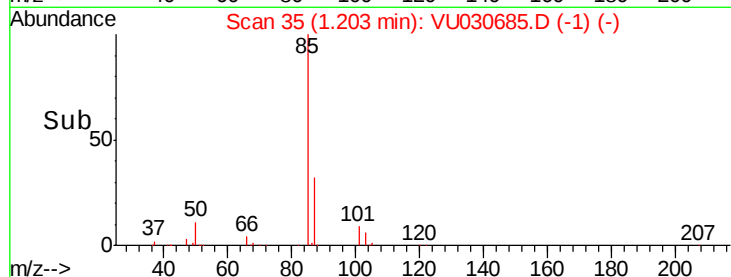
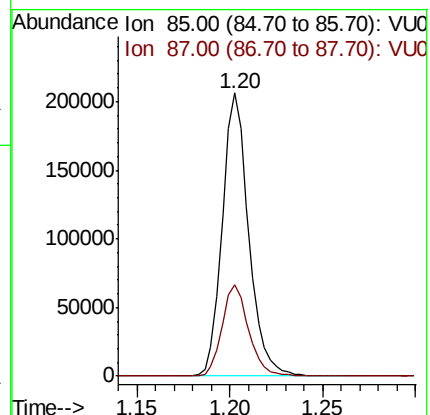
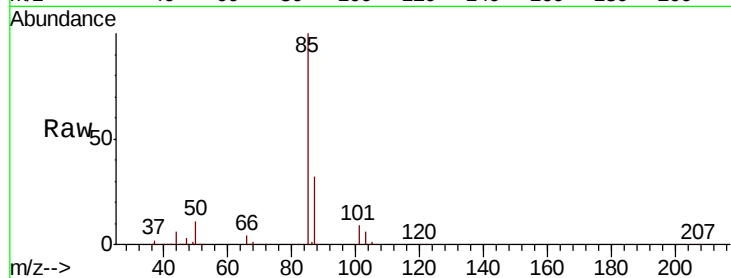
VSTD05047

Tgt Ion: 85 Resp: 203214

Ion Ratio Lower Upper

85 100

87 32.6 25.5 38.3



#3

Chloromethane

Concen: 47.381 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU030685.D

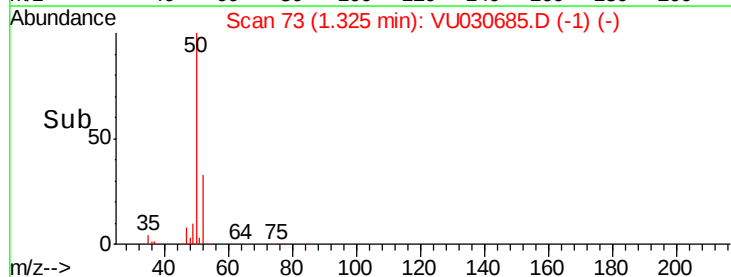
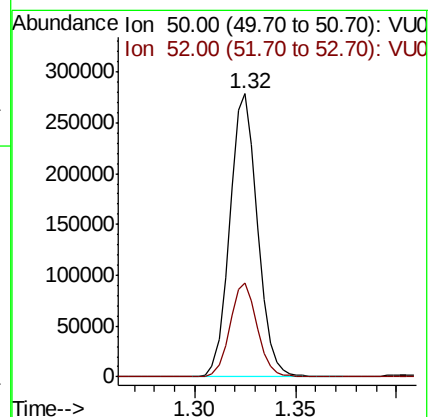
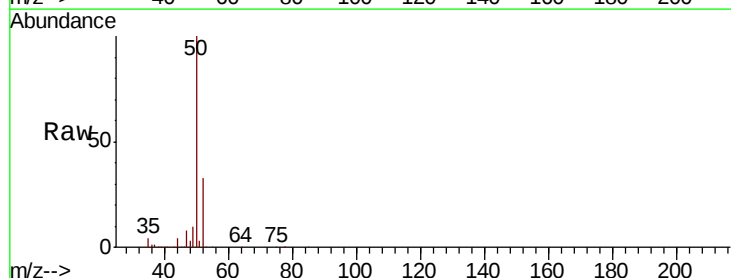
Acq: 04 Apr 2019 14:32

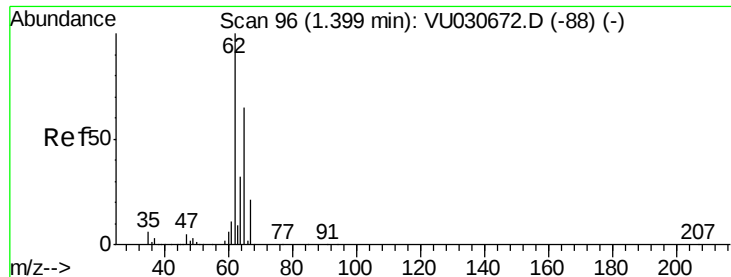
Tgt Ion: 50 Resp: 268018

Ion Ratio Lower Upper

50 100

52 33.1 23.0 42.6





#5

Vinyl chloride

Concen: 48.689 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

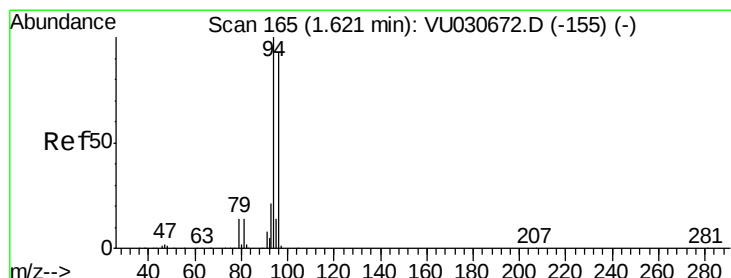
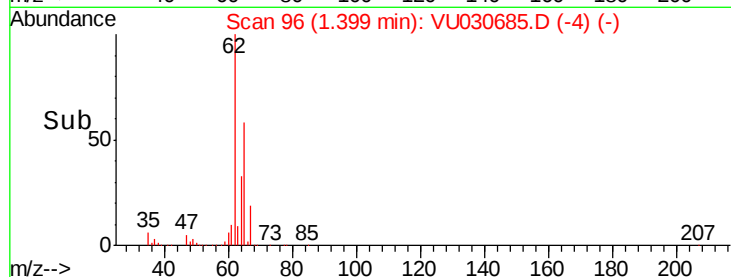
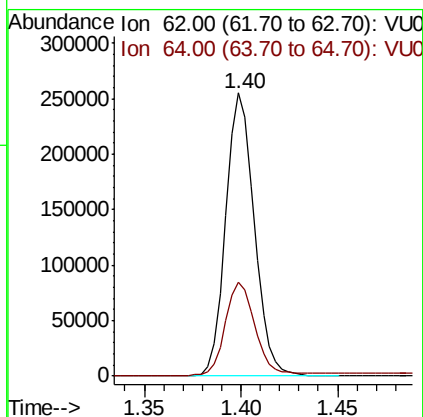
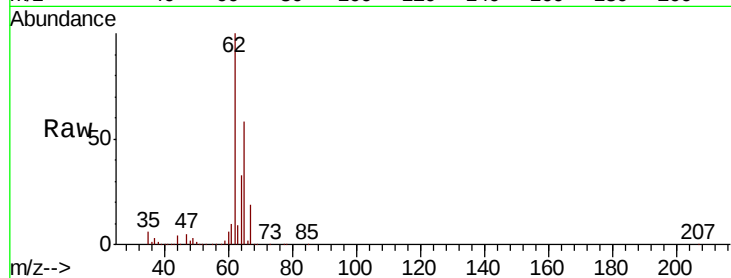
VSTD05047

Tgt Ion: 62 Resp: 261168

Ion Ratio Lower Upper

62 100

64 33.4 22.6 42.0



#6

Bromomethane

Concen: 55.933 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.01 min

Lab File: VU030685.D

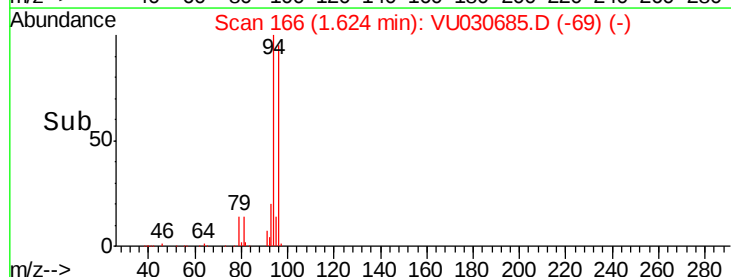
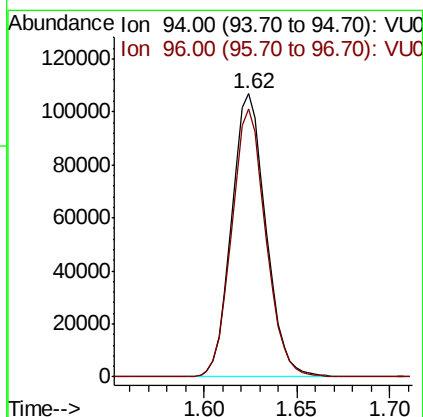
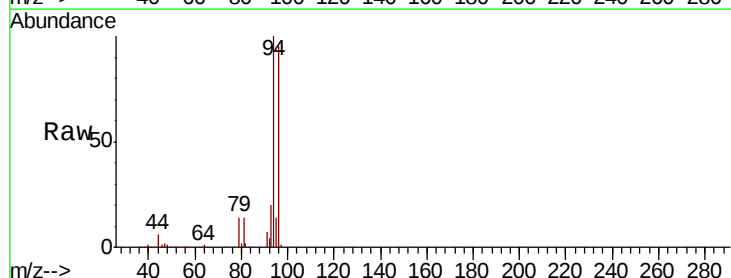
Acq: 04 Apr 2019 14:32

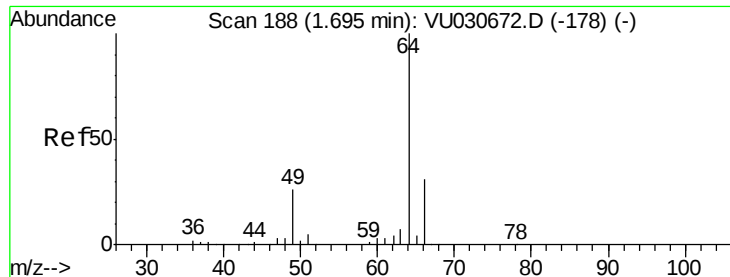
Tgt Ion: 94 Resp: 137634

Ion Ratio Lower Upper

94 100

96 94.6 64.8 120.3





#8

Chloroethane

Concen: 48.795 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.01 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

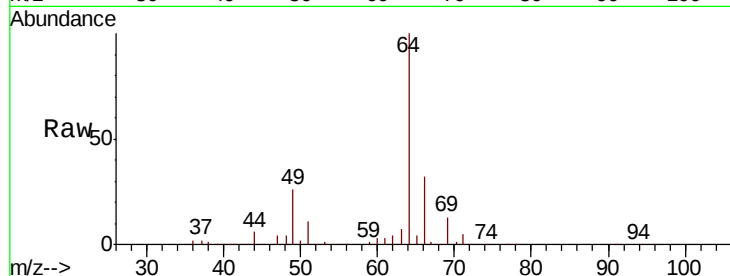
VSTD05047

Tgt Ion: 64 Resp: 147762

Ion Ratio Lower Upper

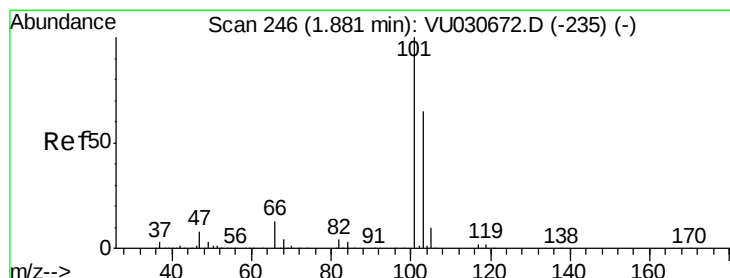
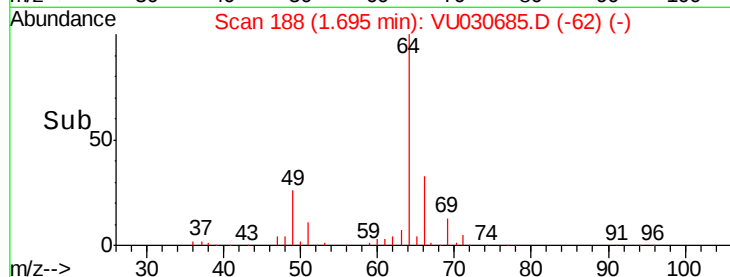
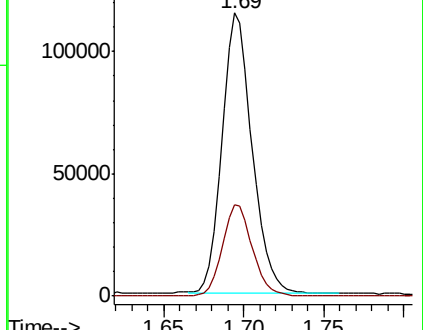
64 100

66 32.4 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU030685.D (-122) (-)

Ion 66.00 (65.70 to 66.70): VU030685.D (-122) (-)



#9

Trichlorofluoromethane

Concen: 51.238 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU030685.D

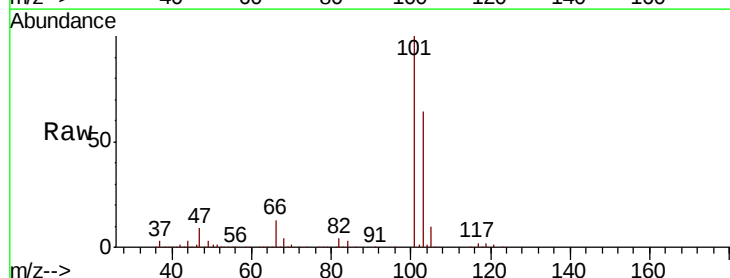
Acq: 04 Apr 2019 14:32

Tgt Ion: 101 Resp: 299713

Ion Ratio Lower Upper

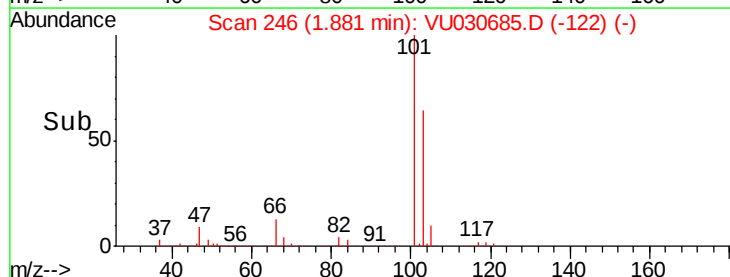
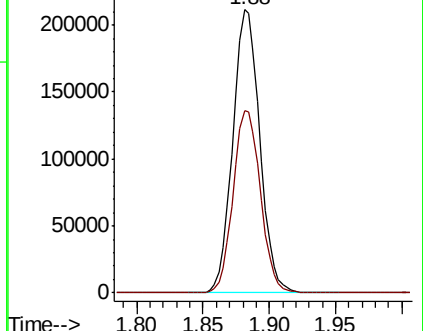
101 100

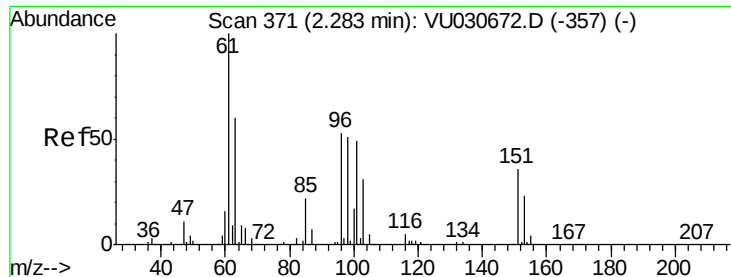
103 65.0 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU030685.D (-122) (-)

Ion 103.00 (102.70 to 103.70): VU030685.D (-122) (-)





#10

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

Concen: 49.992 ug/L

RT: 2.28 min Scan# 371

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

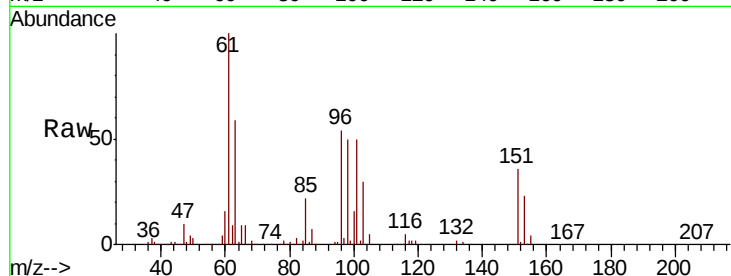
Tgt Ion: 101 Resp: 167253

Ion Ratio Lower Upper

101 100

85 43.6 34.8 52.2

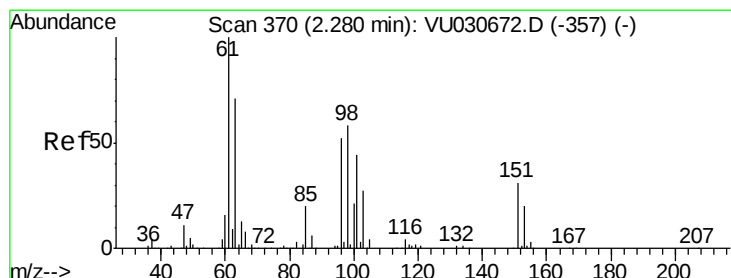
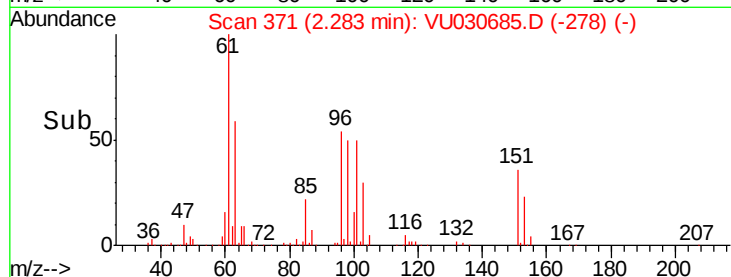
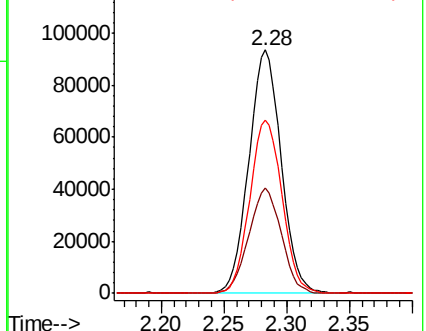
151 71.5 56.6 85.0



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: 50.677 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

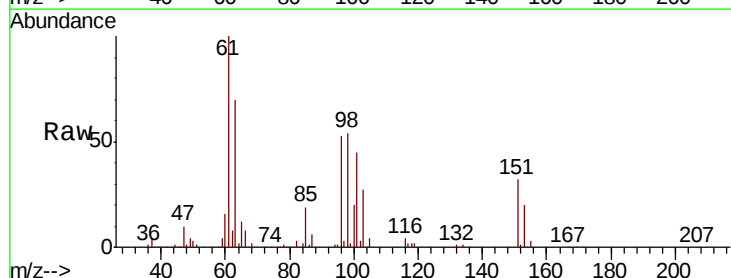
Tgt Ion: 96 Resp: 166206

Ion Ratio Lower Upper

96 100

61 188.2 131.0 243.4

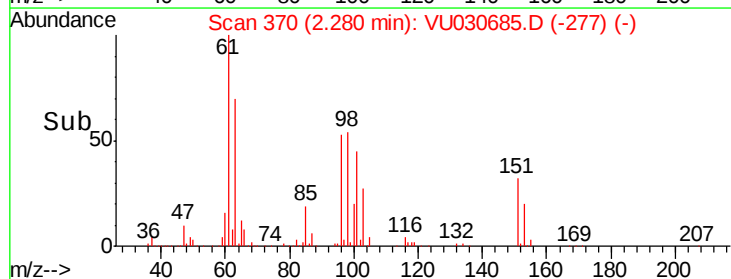
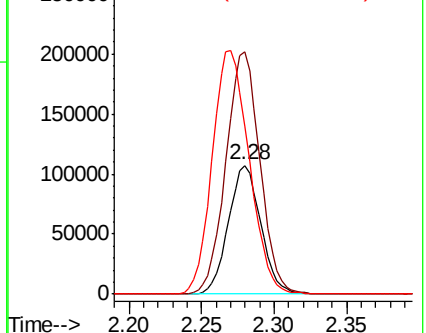
63 130.9 92.4 171.6

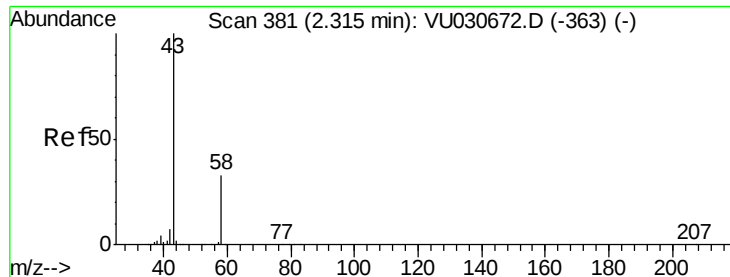


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 90.455 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.01 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

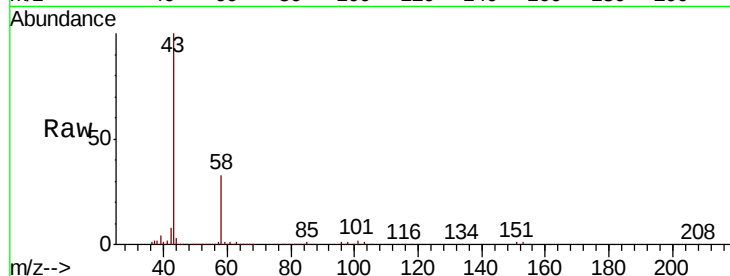
VSTD05047

Tgt Ion: 43 Resp: 317241

Ion Ratio Lower Upper

43 100

58 32.5 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU030672.D (-363) (-)

Ion 58.00 (57.70 to 58.70): VU030672.D (-363) (-)

2.32

200000

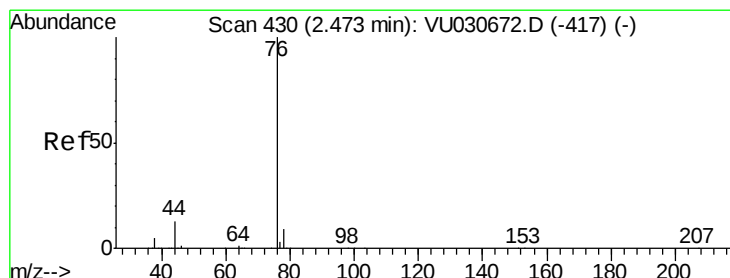
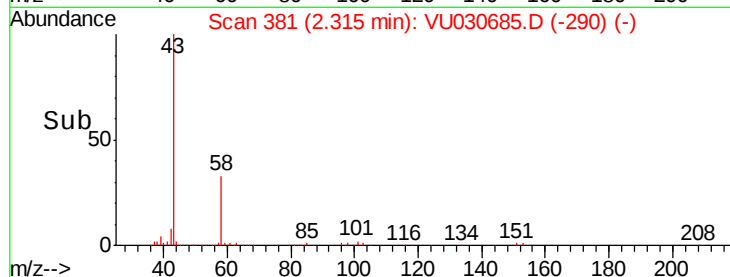
150000

100000

50000

0

Time--> 2.20 2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 47.496 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VU030685.D

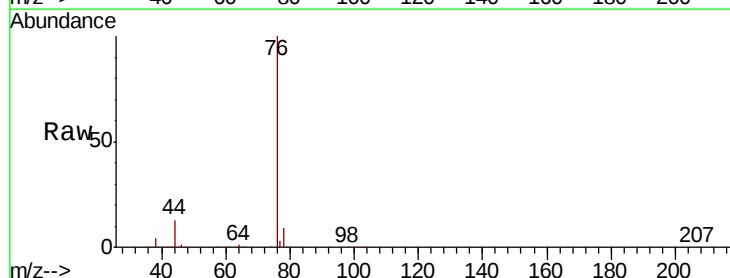
Acq: 04 Apr 2019 14:32

Tgt Ion: 76 Resp: 515051

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU030672.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU030672.D (-417) (-)

2.47

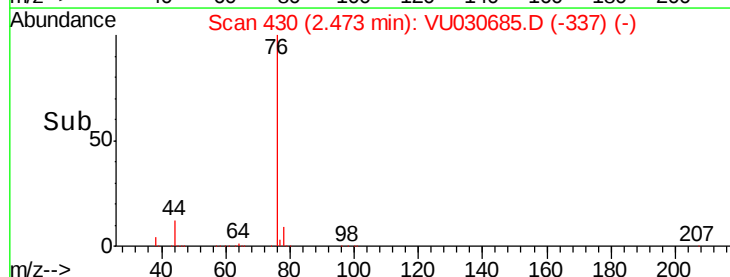
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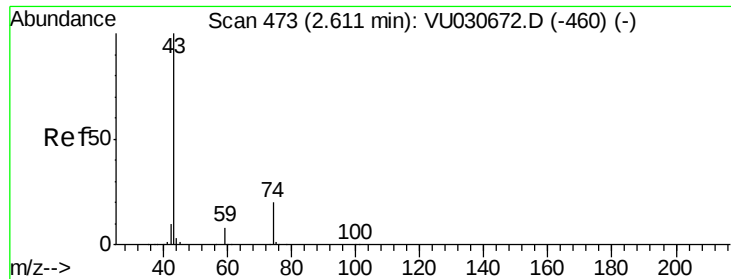
200000

100000

0

Time--> 2.40 2.45 2.50 2.55





#15

Methyl Acetate

Concen: 52.541 ug/L

RT: 2.61 min Scan# 473

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

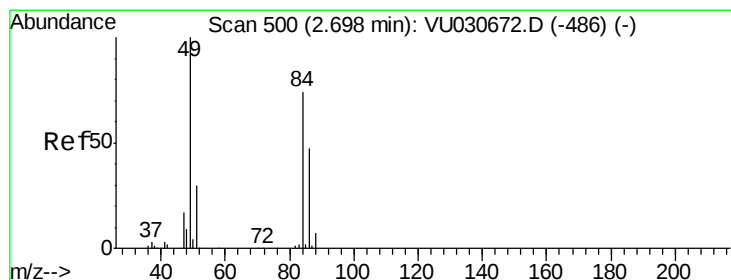
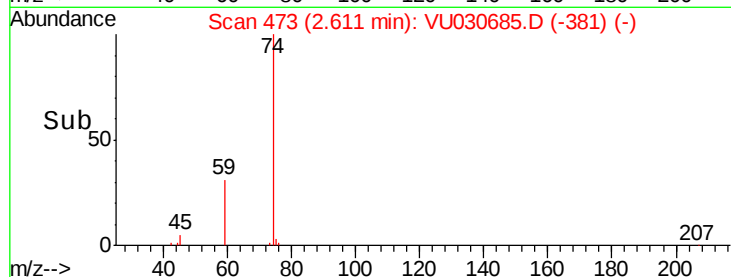
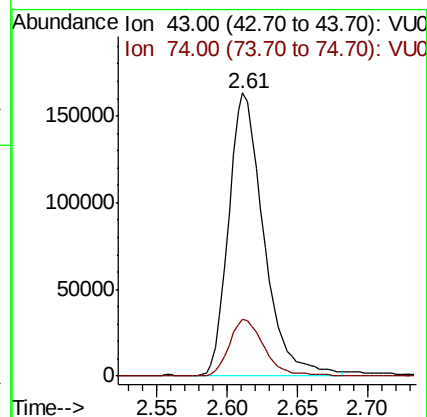
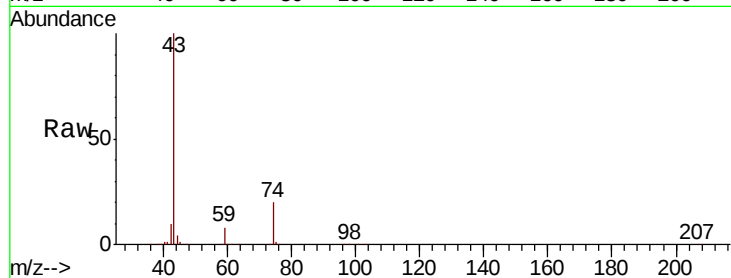
VSTD05047

Tgt Ion: 43 Resp: 282156

Ion Ratio Lower Upper

43 100

74 20.2 0.0 0.0#



#16

Methylene chloride

Concen: 50.546 ug/L

RT: 2.70 min Scan# 500

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

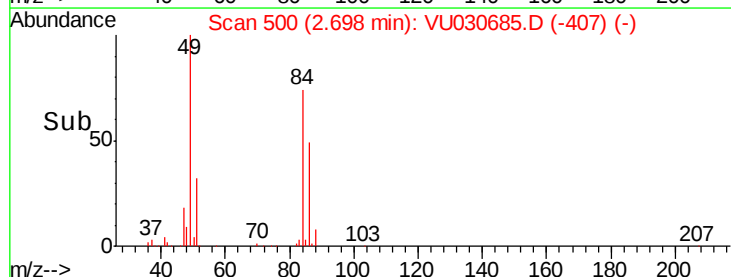
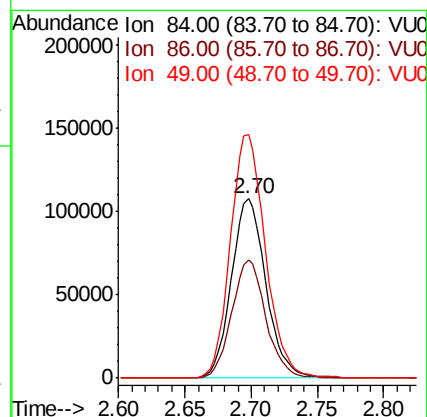
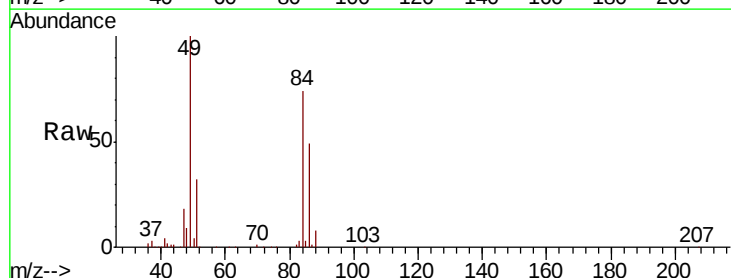
Tgt Ion: 84 Resp: 195429

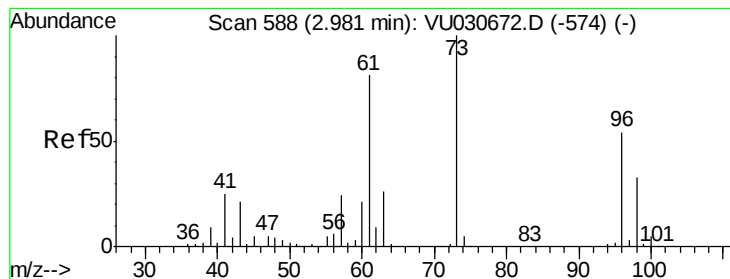
Ion Ratio Lower Upper

84 100

86 66.1 44.3 82.3

49 135.9 94.9 176.3





#17

trans-1,2-Dichloroethene

Concen: 50.075 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

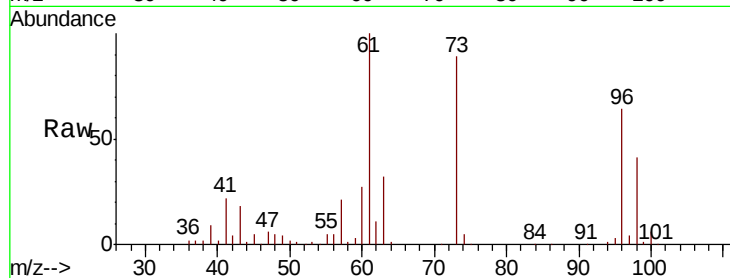
Tgt Ion: 96 Resp: 172301

Ion Ratio Lower Upper

96 100

61 157.0 108.6 201.8

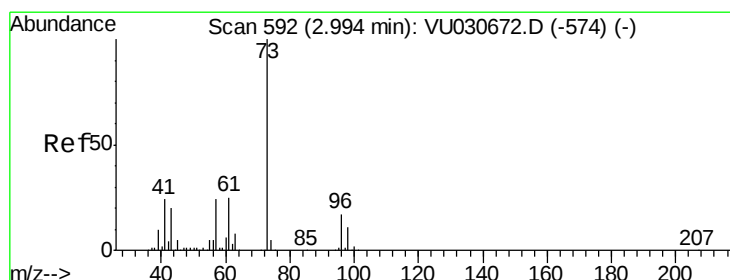
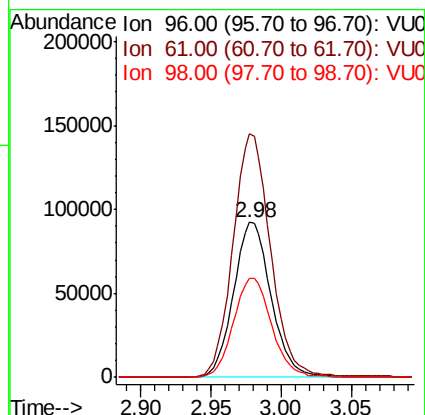
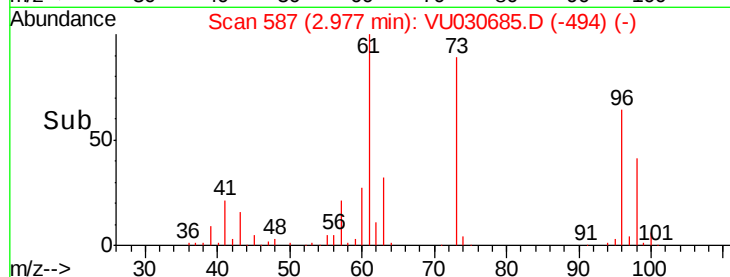
98 63.9 42.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VU030672.D (-574) (-)

Ion 61.00 (60.70 to 61.70): VU030672.D (-574) (-)

Ion 98.00 (97.70 to 98.70): VU030672.D (-574) (-)



#18

Methyl tert-butyl Ether

Concen: 51.241 ug/L

RT: 2.99 min Scan# 592

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

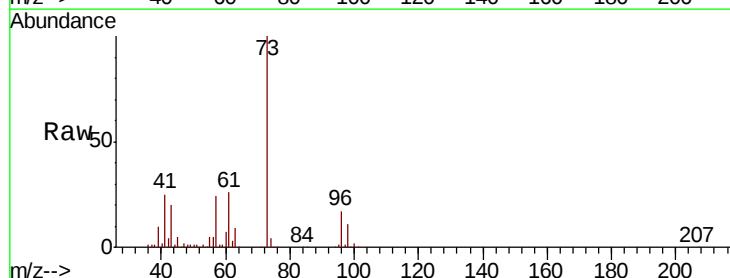
Tgt Ion: 73 Resp: 583063

Ion Ratio Lower Upper

73 100

43 20.2 16.6 24.8

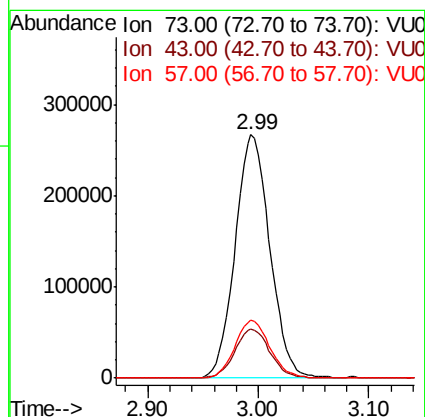
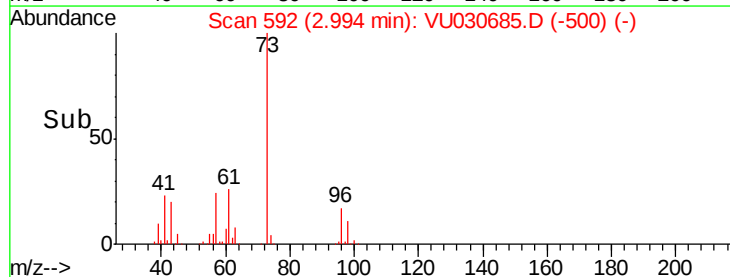
57 23.7 18.9 28.3

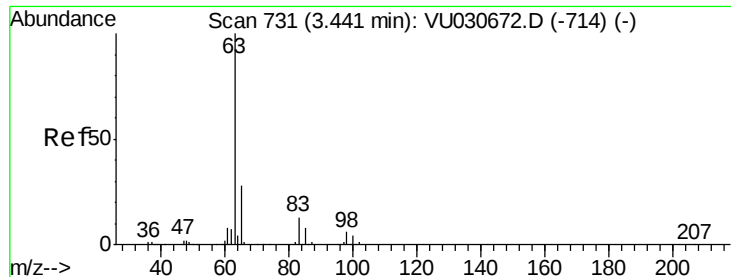


Abundance Ion 73.00 (72.70 to 73.70): VU030672.D (-574) (-)

Ion 43.00 (42.70 to 43.70): VU030672.D (-574) (-)

Ion 57.00 (56.70 to 57.70): VU030672.D (-574) (-)





#19

1,1-Dichloroethane

Concen: 51.395 ug/L

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

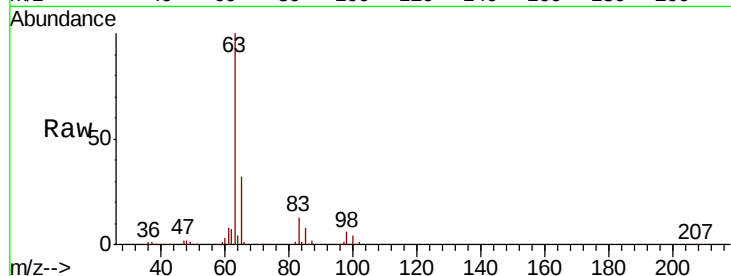
Tgt Ion: 63 Resp: 362816

Ion Ratio Lower Upper

63 100

65 31.8 22.0 40.8

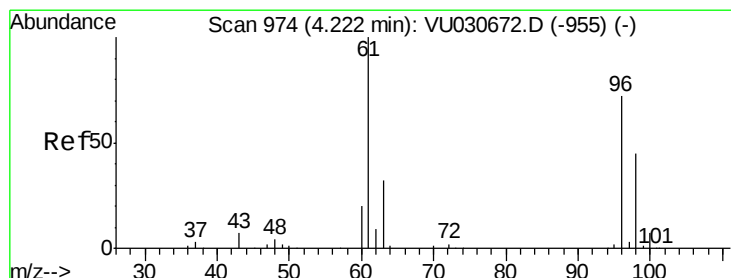
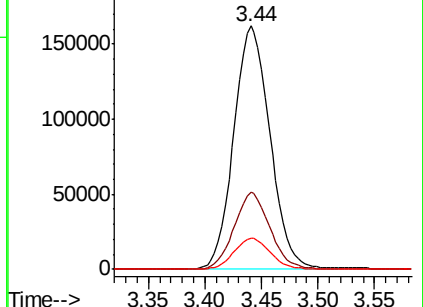
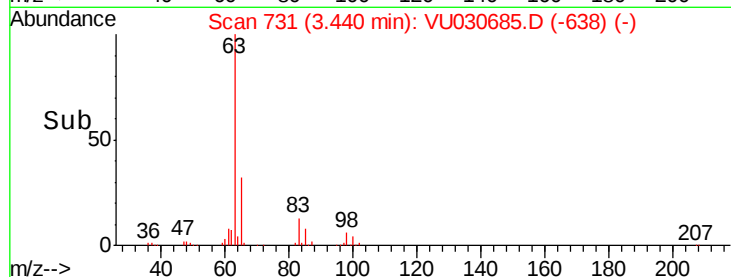
83 13.0 9.1 16.9



Abundance Ion 63.00 (62.70 to 63.70): VU030685.D (-638) (-)

Ion 65.00 (64.70 to 65.70): VU030685.D (-638) (-)

Ion 83.00 (82.70 to 83.70): VU030685.D (-638) (-)



#20

cis-1,2-Dichloroethene

Concen: 50.905 ug/L

RT: 4.22 min Scan# 974

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

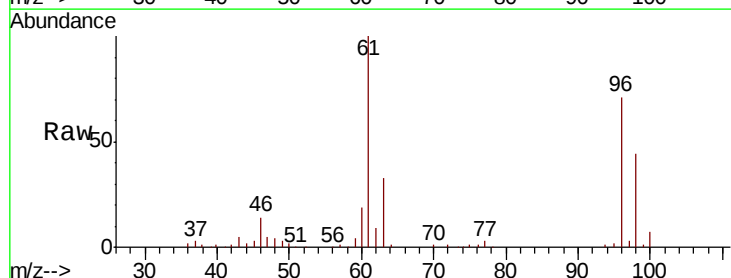
Tgt Ion: 96 Resp: 196436

Ion Ratio Lower Upper

96 100

61 141.0 98.4 182.8

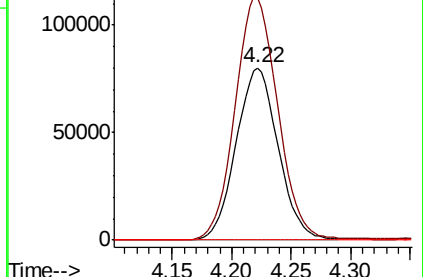
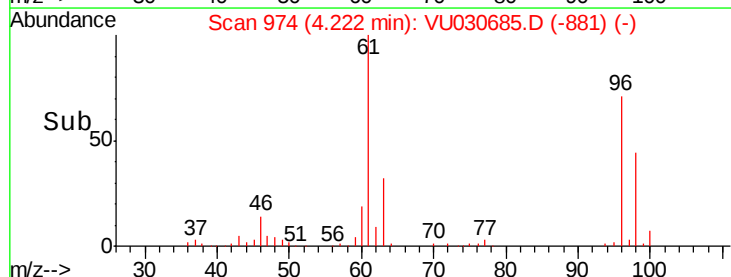
68 0.0 0.0 0.0

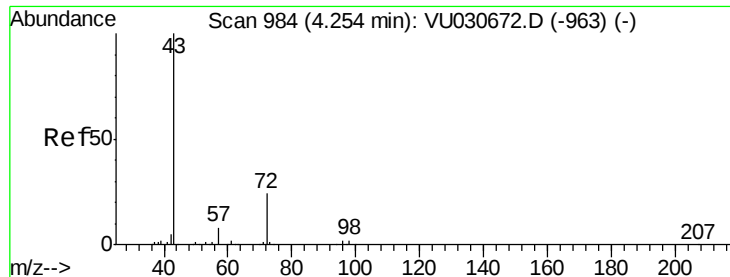


Abundance Ion 96.00 (95.70 to 96.70): VU030685.D (-881) (-)

Ion 61.00 (60.70 to 61.70): VU030685.D (-881) (-)

Ion 68.00 (67.70 to 68.70): VU030685.D (-881) (-)





#22

2-Butanone

Concen: 100.165 ug/L

RT: 4.26 min Scan# 985

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

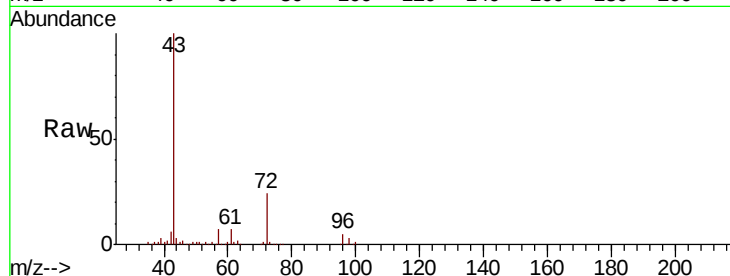
VSTD05047

Tgt Ion: 43 Resp: 424615

Ion Ratio Lower Upper

43 100

72 24.0 12.0 36.1



Abundance Ion 43.00 (42.70 to 43.70): VU030672.D (-963) (-)

Ion 72.00 (71.70 to 72.70): VU030672.D (-963) (-)

4.26

150000

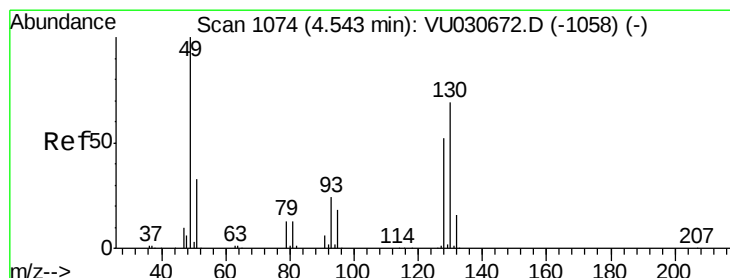
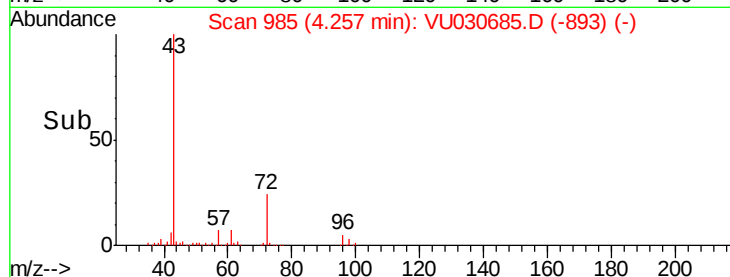
100000

50000

0

4.20 4.30 4.40

Time-->



#23

Bromochloromethane

Concen: 52.319 ug/L

RT: 4.54 min Scan# 1074

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Tgt Ion: 128 Resp: 93840

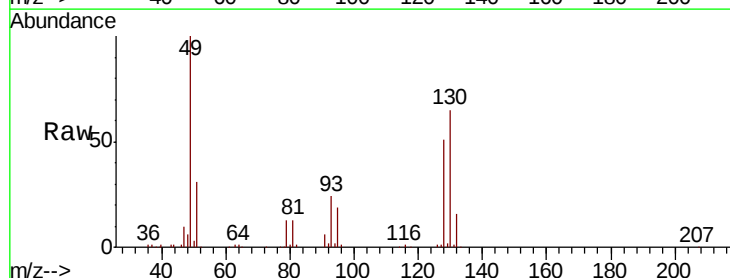
Ion Ratio Lower Upper

128 100

49 197.8 145.5 270.3

130 128.6 95.3 177.1

51 60.3 52.2 78.2



Abundance Ion 128.00 (127.70 to 128.70): VU030672.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU030672.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU030672.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU030672.D (-1058) (-)

120000

100000

80000

60000

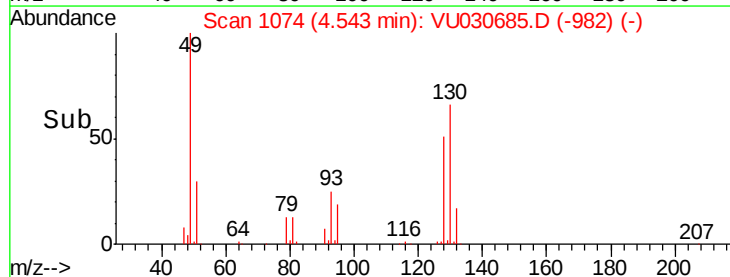
40000

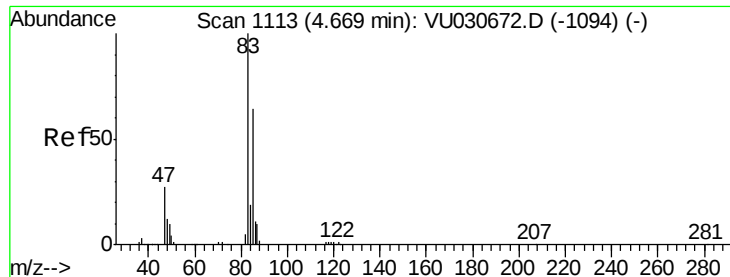
20000

0

4.50 4.60

Time-->

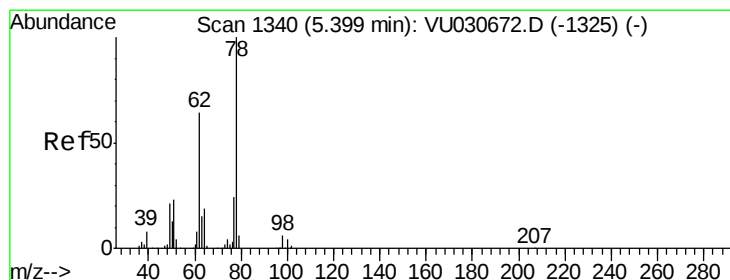
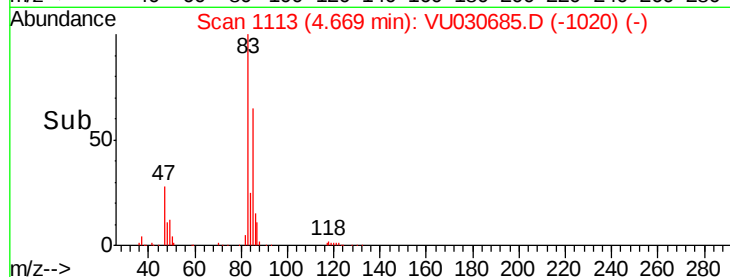
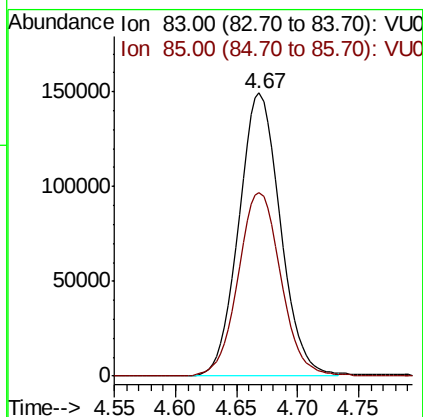
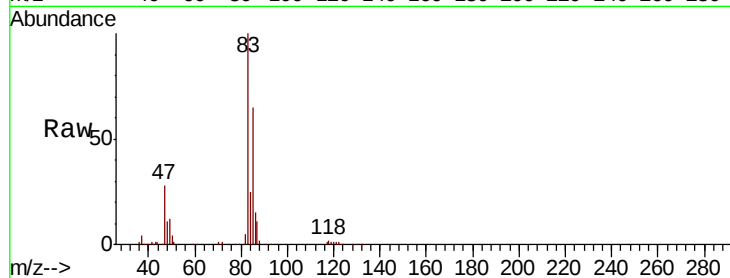




#25
Chloroform
Concen: 52.441 ug/L
RT: 4.67 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VU030685.D
Acq: 04 Apr 2019 14:32

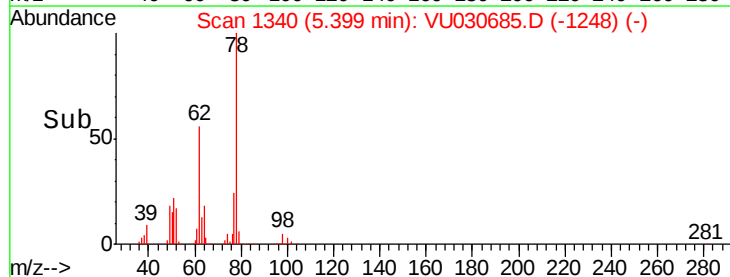
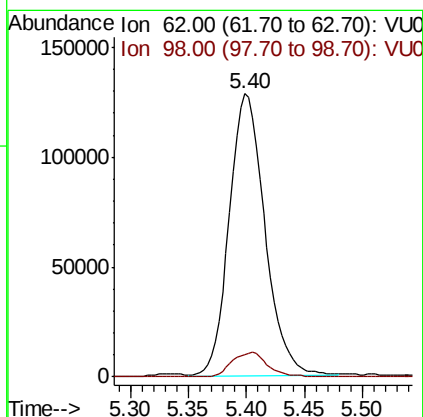
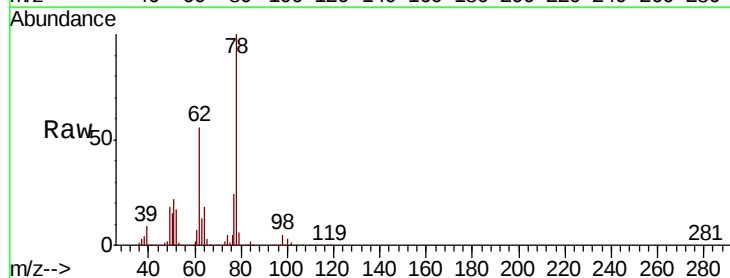
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

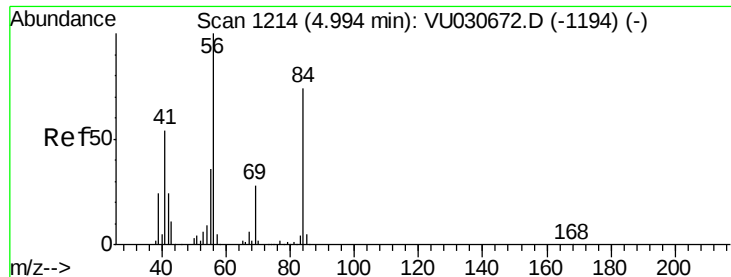
Tgt Ion: 83 Resp: 351980
Ion Ratio Lower Upper
83 100
85 65.0 44.4 82.4



#27
1,2-Dichloroethane
Concen: 52.065 ug/L
RT: 5.40 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VU030685.D
Acq: 04 Apr 2019 14:32

Tgt Ion: 62 Resp: 274213
Ion Ratio Lower Upper
62 100
98 8.0 7.2 10.8

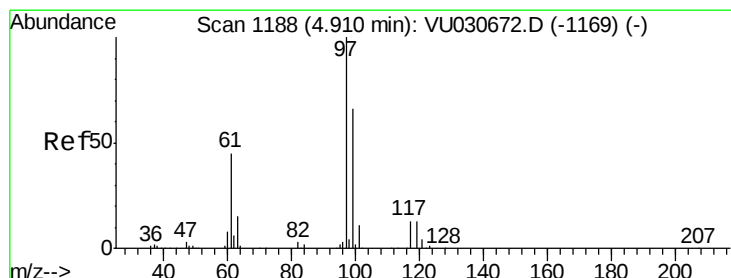
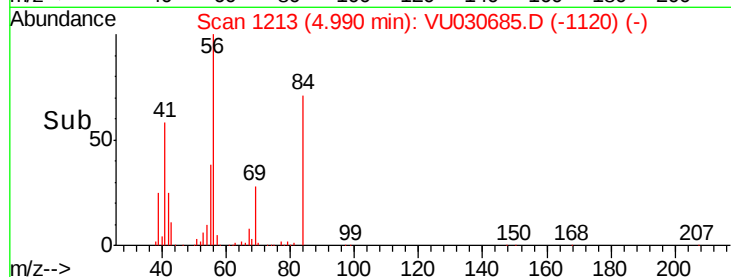
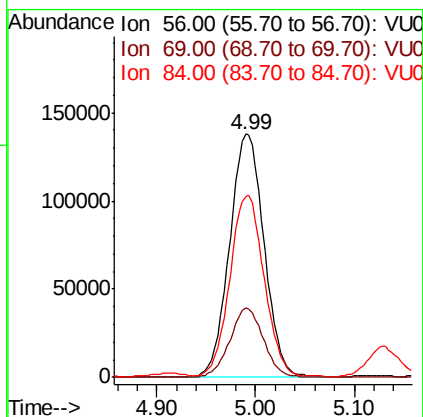
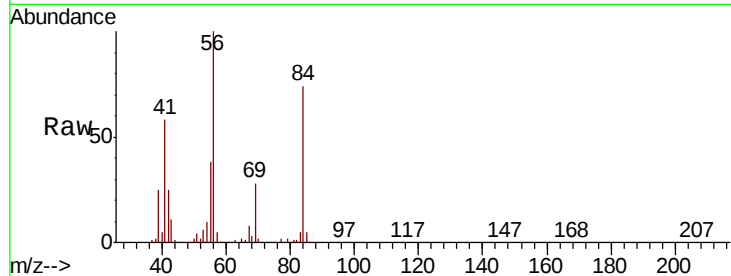




#29
Cyclohexane
Concen: 49.953 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU030685.D
Acq: 04 Apr 2019 14:32

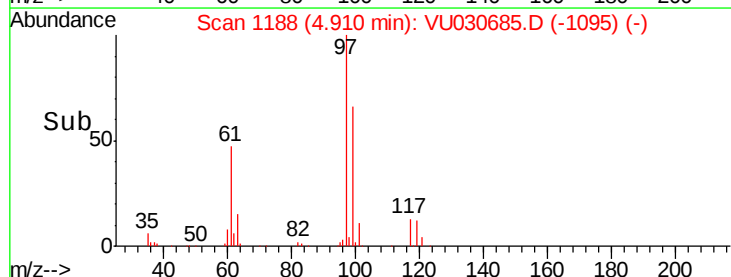
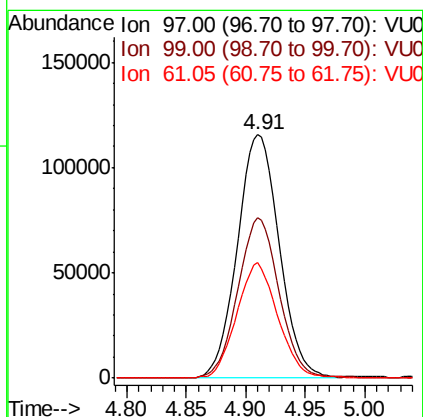
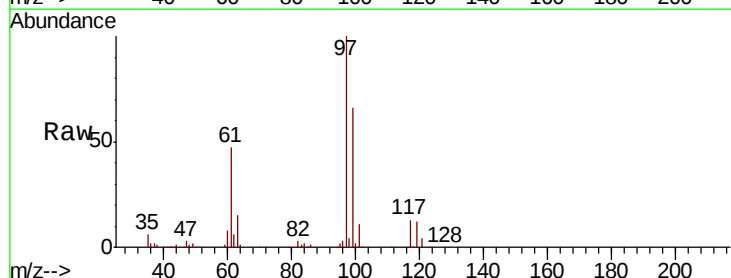
Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

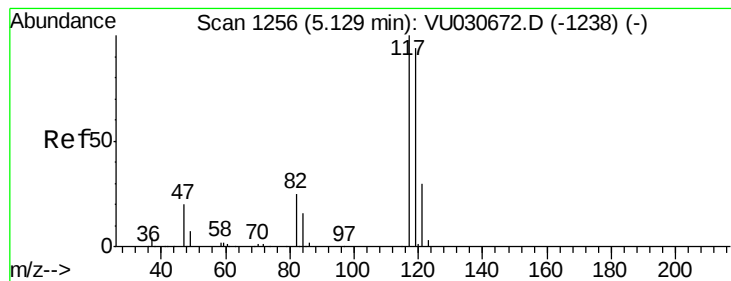
Tgt Ion: 56 Resp: 334175
Ion Ratio Lower Upper
56 100
69 27.8 22.9 34.3
84 74.3 58.9 88.3



#30
1,1,1-Trichloroethane
Concen: 52.260 ug/L
RT: 4.91 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU030685.D
Acq: 04 Apr 2019 14:32

Tgt Ion: 97 Resp: 282871
Ion Ratio Lower Upper
97 100
99 64.5 51.8 77.6
61 46.3 38.2 57.4





#31

Carbon tetrachloride

Concen: 51.646 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

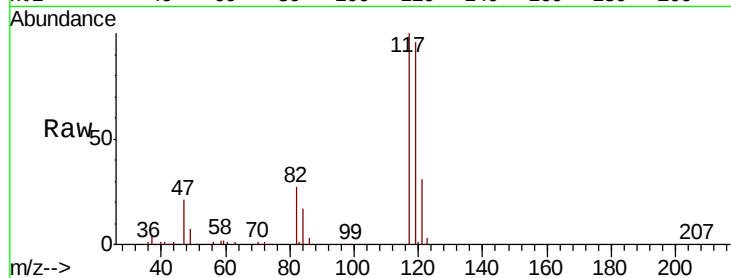
VSTD05047

Tgt Ion:117 Resp: 236946

Ion Ratio Lower Upper

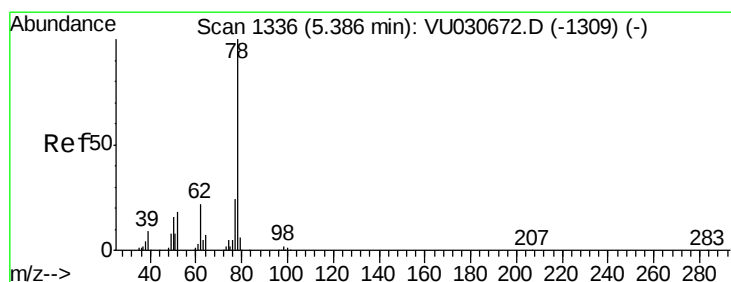
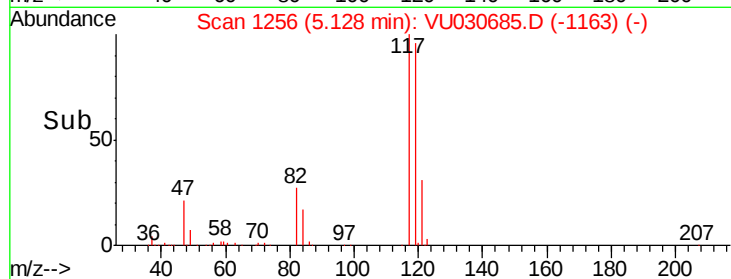
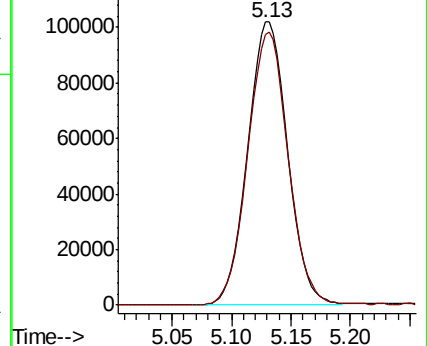
117 100

119 97.6 75.4 113.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.950 ug/L

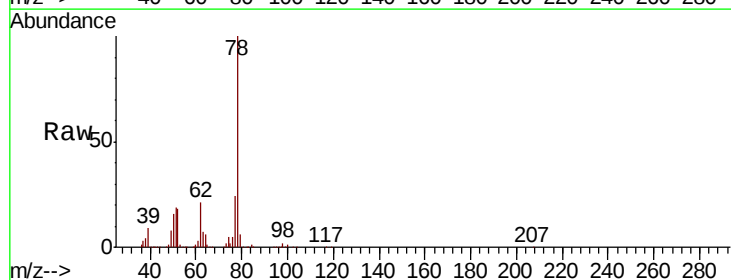
RT: 5.39 min Scan# 1336

Delta R.T. -0.00 min

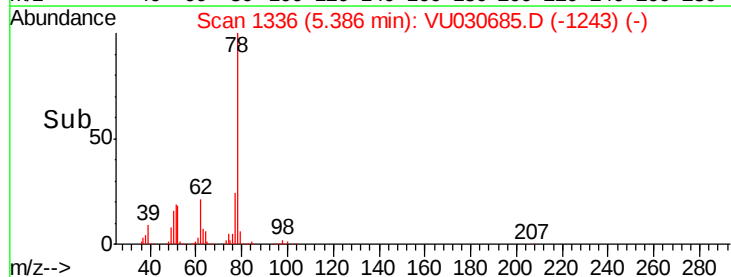
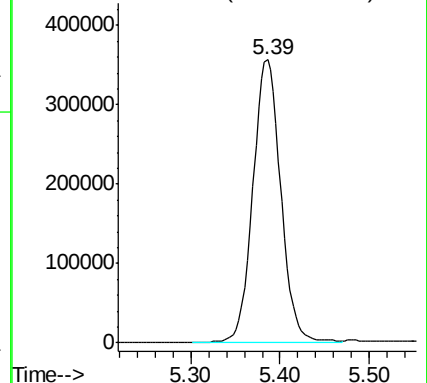
Lab File: VU030685.D

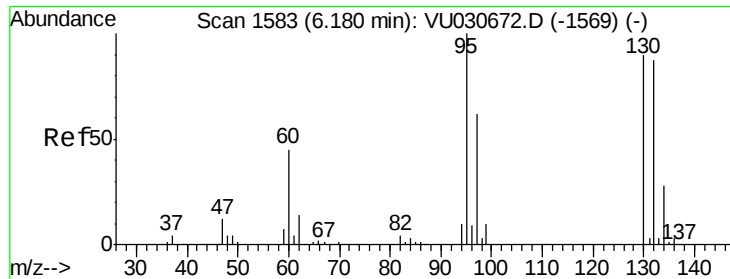
Acq: 04 Apr 2019 14:32

Tgt Ion: 78 Resp: 781744



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 50.236 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

Tgt Ion: 95 Resp: 185837

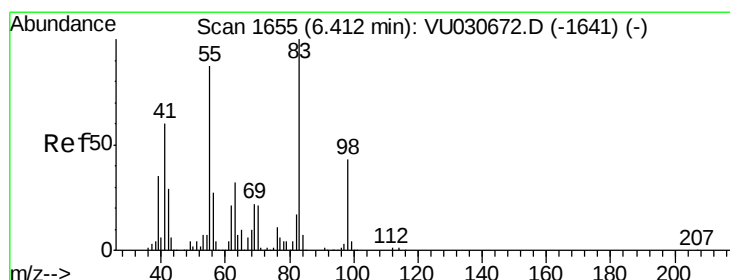
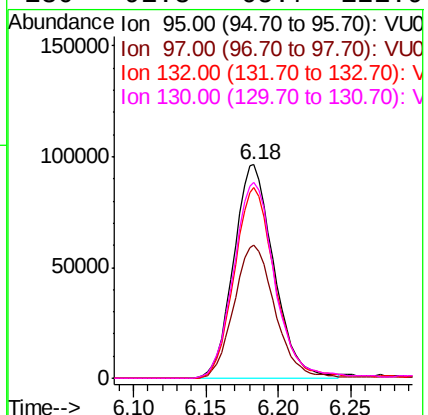
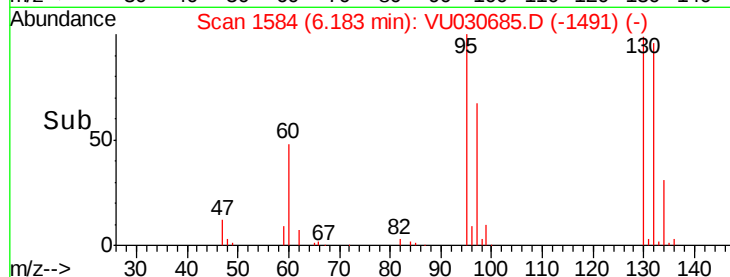
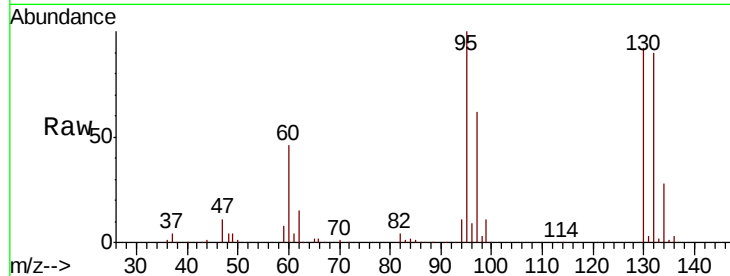
Ion Ratio Lower Upper

95 100

97 62.5 45.7 84.9

132 89.6 63.8 118.4

130 91.8 65.7 121.9



#35

Methylcyclohexane

Concen: 47.769 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

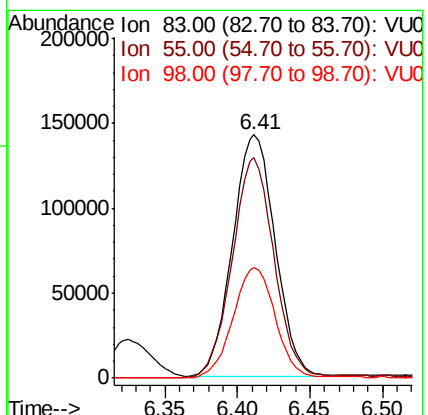
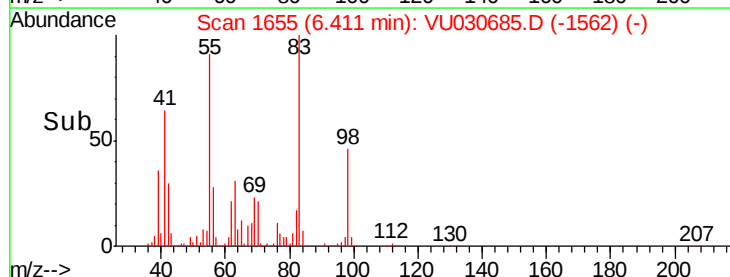
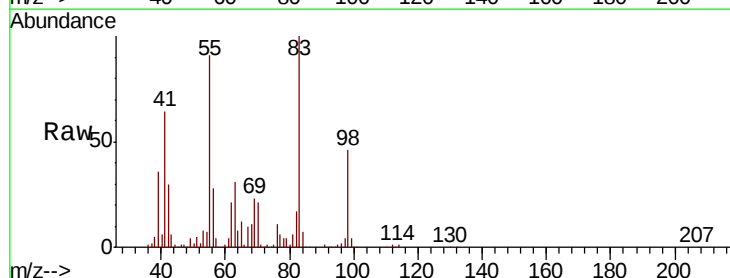
Tgt Ion: 83 Resp: 290789

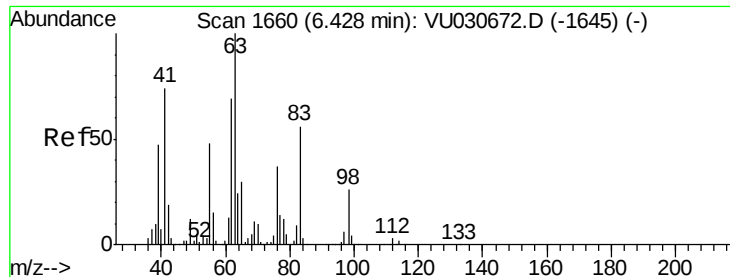
Ion Ratio Lower Upper

83 100

55 89.6 71.4 107.0

98 45.2 36.0 54.0





#37

1,2-Dichloropropane

Concen: 50.025 ug/L

RT: 6.43 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

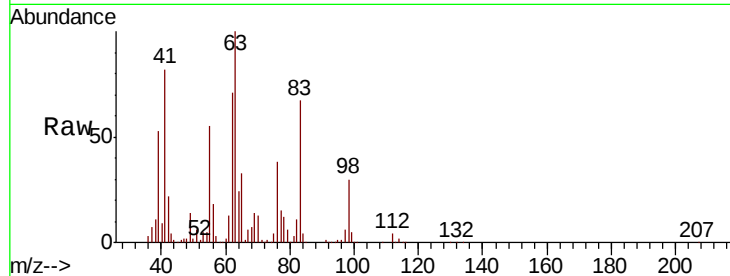
VSTD05047

Tgt Ion: 63 Resp: 213631

Ion Ratio Lower Upper

63 100

112 3.6 2.6 4.0



Abundance Ion 63.00 (62.70 to 63.70): VU030672.D (-1645) (-)

Ion 112.00 (111.70 to 112.70): VU030672.D (-1645) (-)

6.43

120000

100000

80000

60000

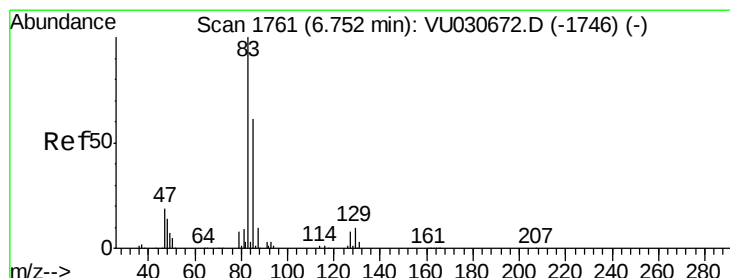
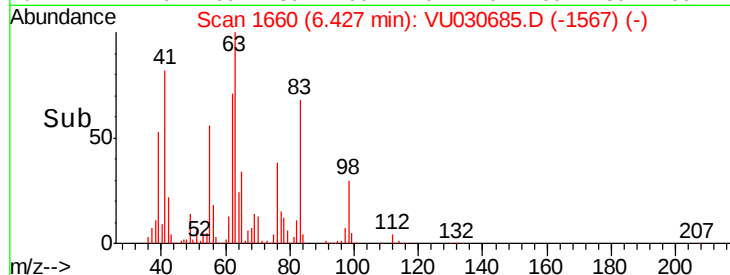
40000

20000

0

6.35 6.40 6.45 6.50

Time-->



#38

Bromodichloromethane

Concen: 50.857 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

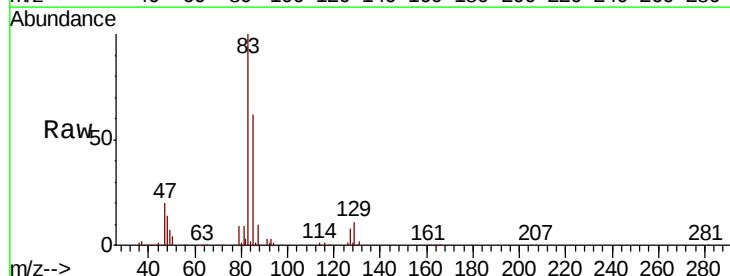
Tgt Ion: 83 Resp: 258058

Ion Ratio Lower Upper

83 100

85 62.3 45.0 83.6

127 8.0 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VU030672.D (-1746) (-)

Ion 85.00 (84.70 to 85.70): VU030672.D (-1746) (-)

Ion 127.00 (126.70 to 127.70): VU030672.D (-1746) (-)

6.75

150000

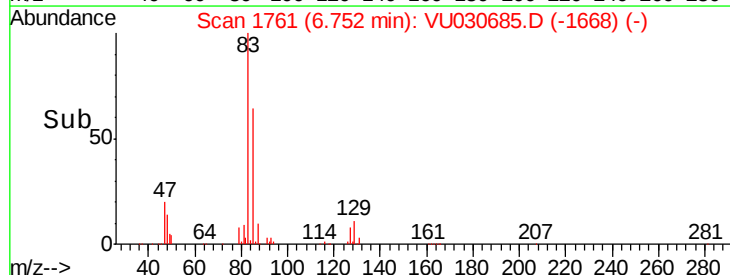
100000

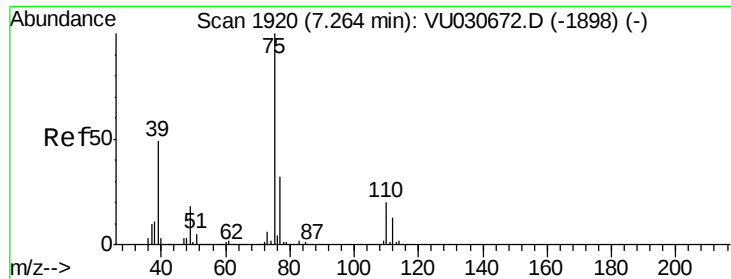
50000

0

6.70 6.75 6.80 6.85

Time-->

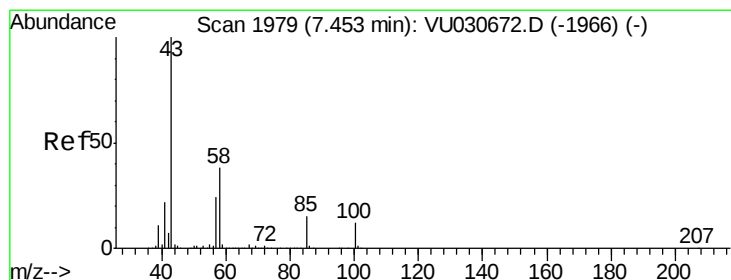
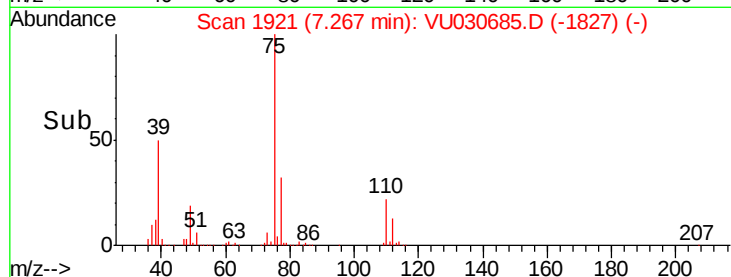
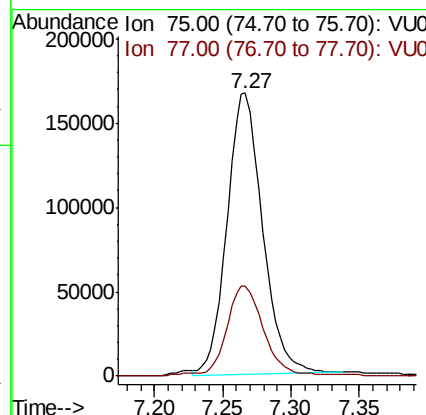
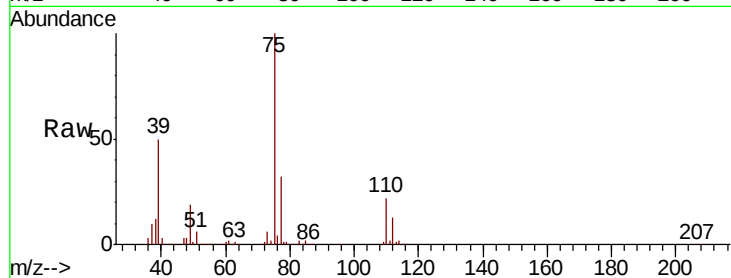




#39
 cis-1,3-Dichloropropene
 Concen: 49.102 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

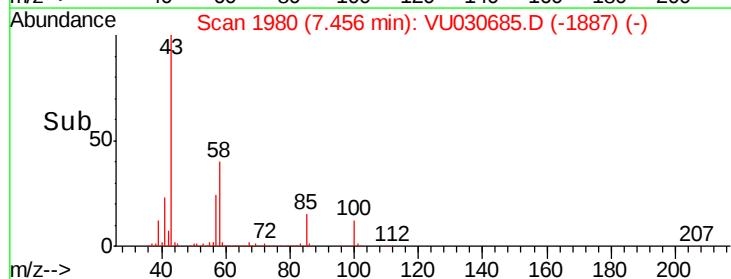
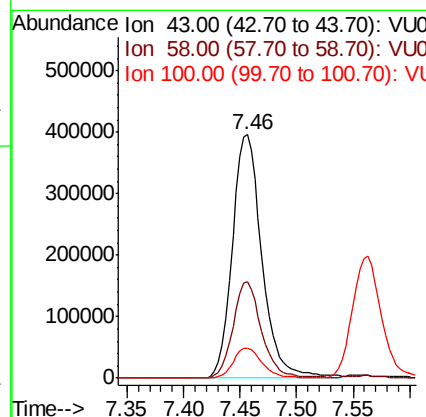
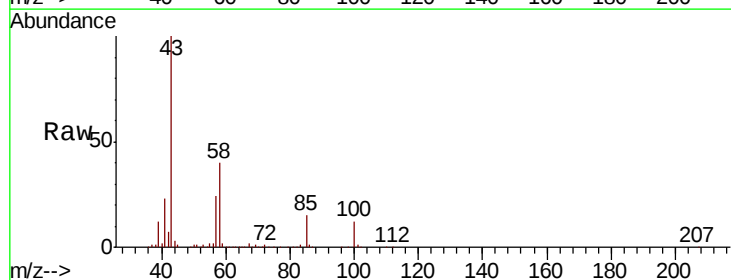
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

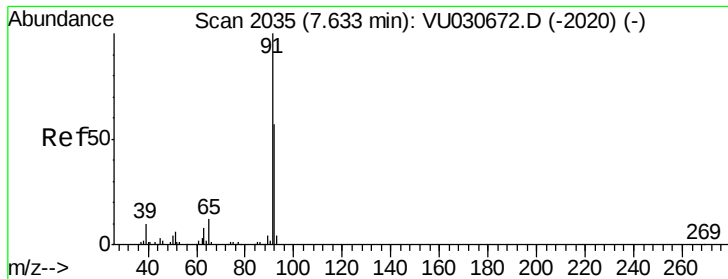
Tgt Ion: 75 Resp: 301397
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 100.519 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. -0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

Tgt Ion: 43 Resp: 721038
 Ion Ratio Lower Upper
 43 100
 58 38.2 30.6 45.8
 100 12.1 9.5 14.3





#42

Toluene

Concen: 50.659 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

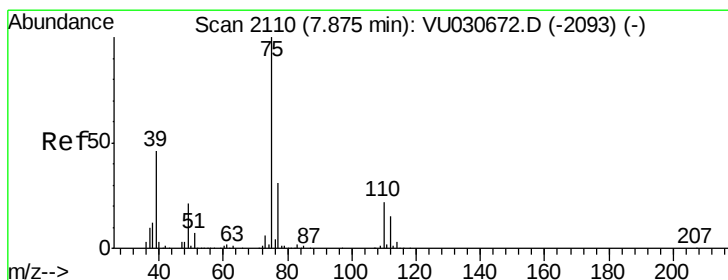
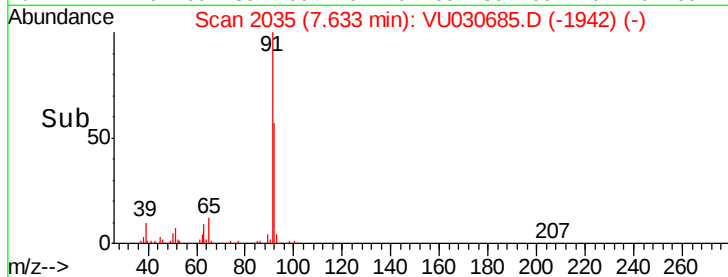
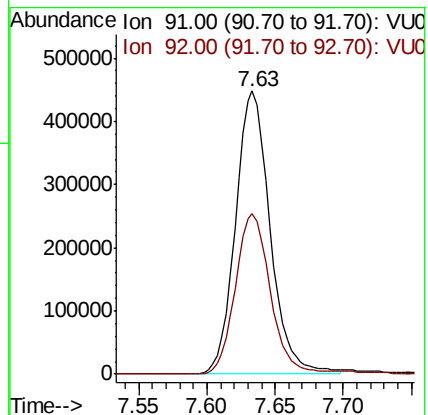
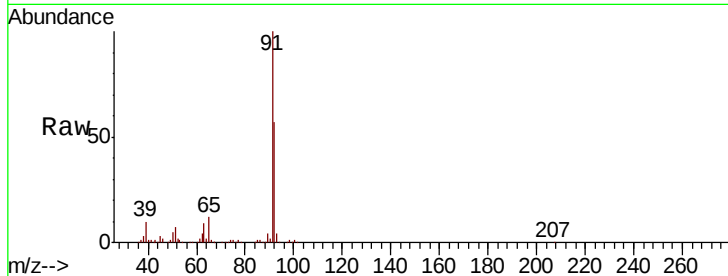
VSTD05047

Tgt Ion: 91 Resp: 791156

Ion Ratio Lower Upper

91 100

92 56.9 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 53.450 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VU030685.D

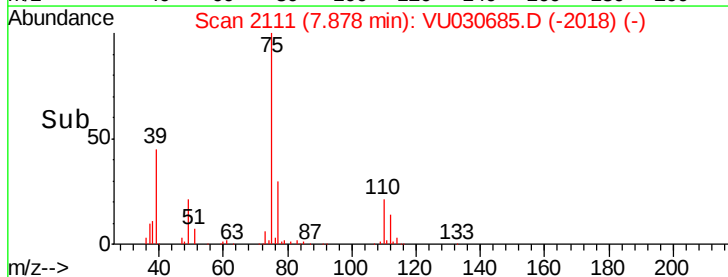
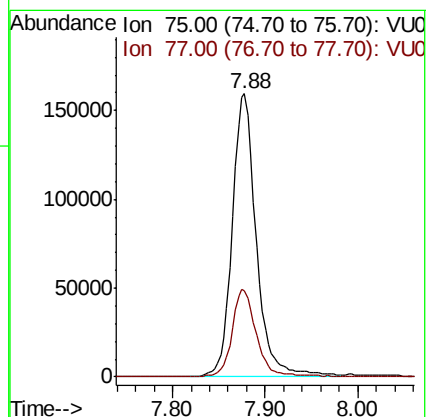
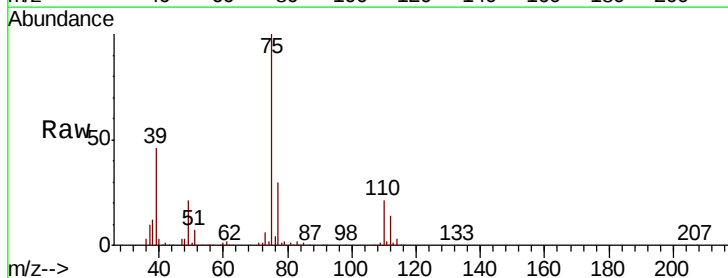
Acq: 04 Apr 2019 14:32

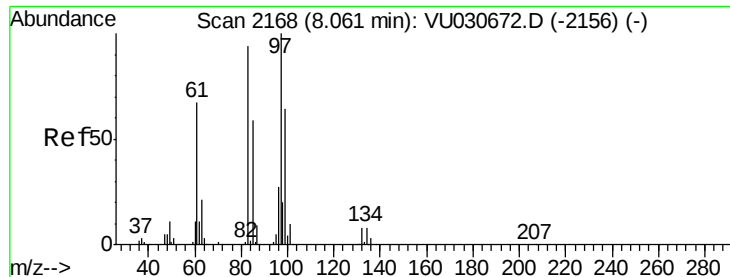
Tgt Ion: 75 Resp: 288682

Ion Ratio Lower Upper

75 100

77 30.4 22.0 40.8

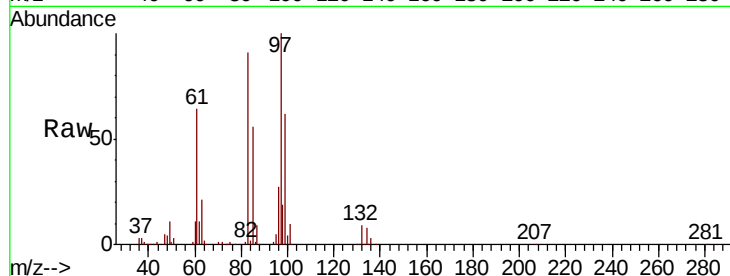




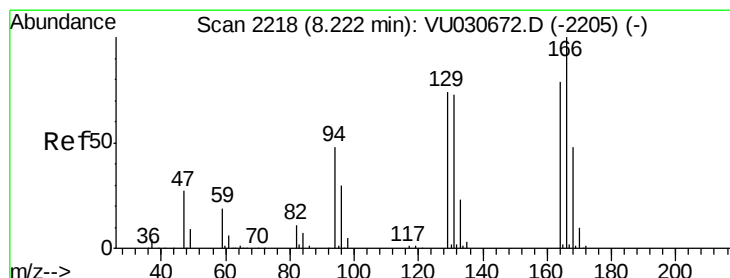
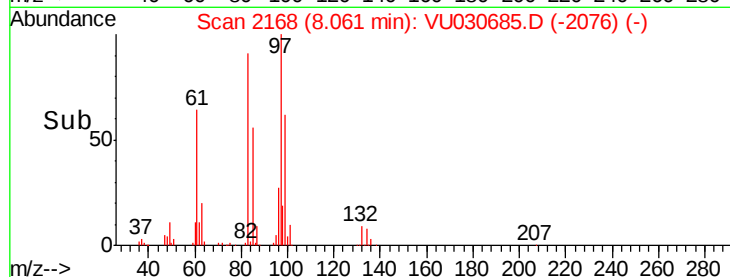
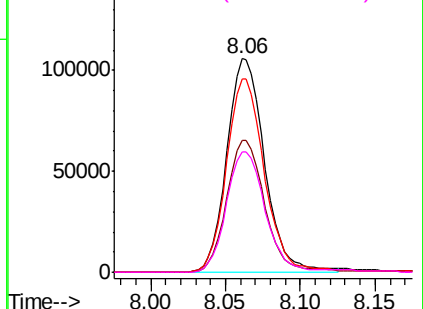
#45
 1,1,2-Trichloroethane
 Concen: 51.608 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion:	97	Resp:	186217
Ion	Ratio	Lower	Upper
97	100		
99	61.9	44.0	81.8
83	90.5	65.3	121.3
85	56.3	41.8	77.6

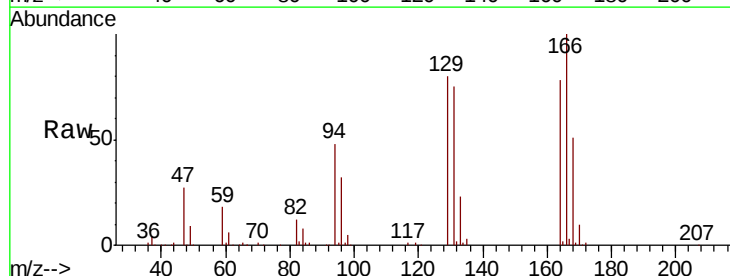


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

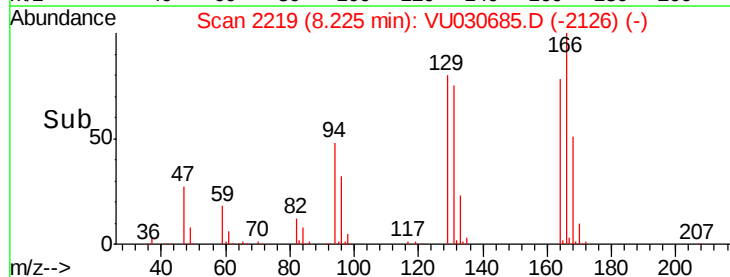
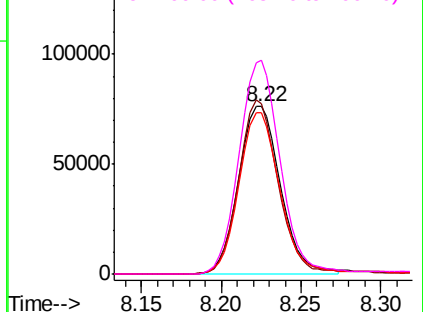


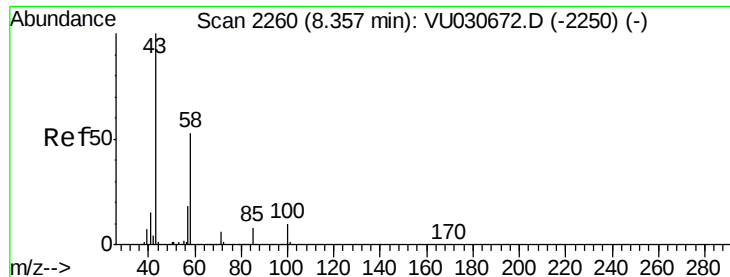
#46
 Tetrachloroethene
 Concen: 52.631 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. -0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

Tgt Ion:	164	Resp:	135990
Ion	Ratio	Lower	Upper
164	100		
129	101.6	68.1	126.5
131	96.2	67.7	125.7
166	127.4	92.4	171.6



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

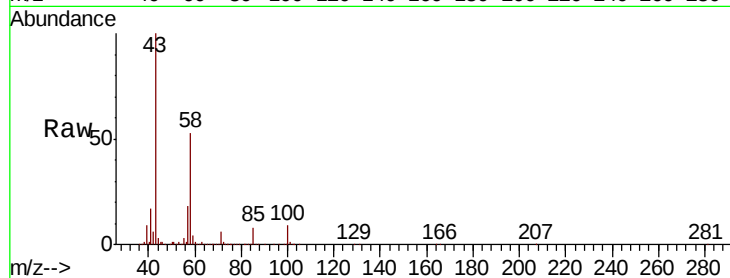




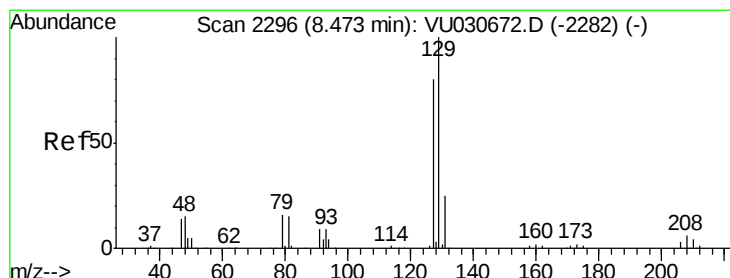
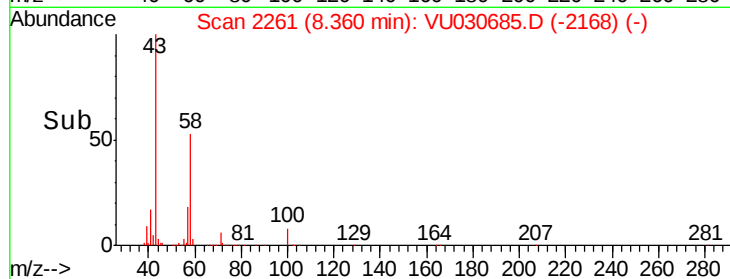
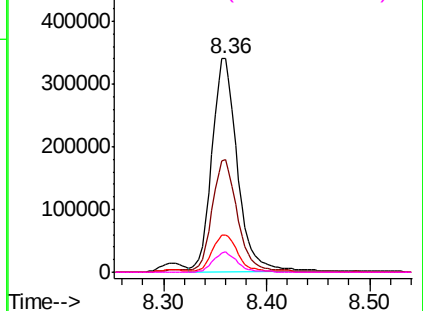
#48
2-Hexanone
Concen: 98.861 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU030685.D
Acq: 04 Apr 2019 14:32

Instrument :
MSVOA_U
ClientSampleId :
VSTD05047

Tgt Ion:	43	Resp:	581205
Ion	Ratio	Lower	Upper
43	100		
58	52.0	42.5	63.7
57	18.2	15.0	22.6
100	9.3	7.4	11.2

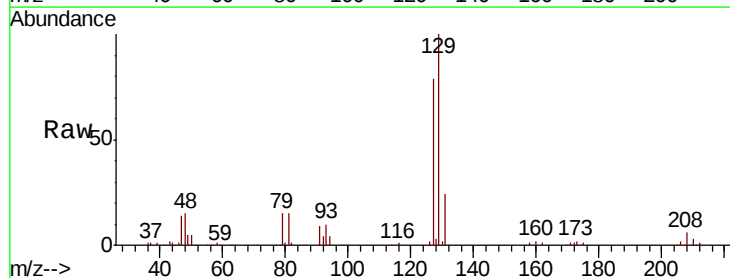


Abundance Ion 43.00 (42.70 to 43.70): VU030685.D (-2168) (-)
Ion 58.00 (57.70 to 58.70): VU030685.D (-2168) (-)
Ion 57.00 (56.70 to 57.70): VU030685.D (-2168) (-)
Ion 100.00 (99.70 to 100.70): VU030685.D (-2168) (-)

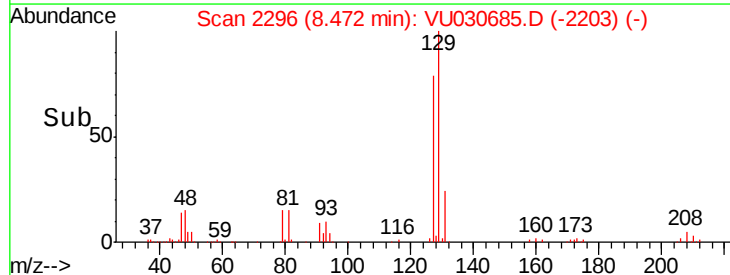
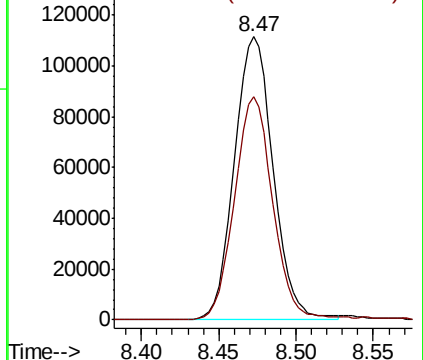


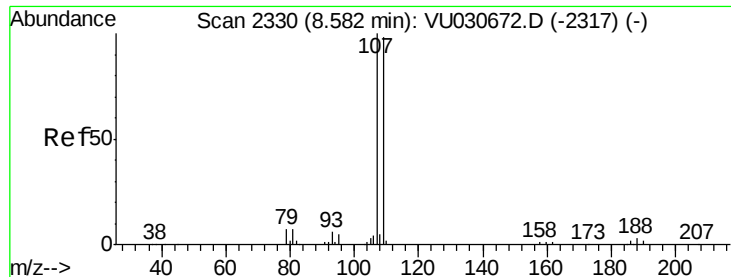
#49
Dibromochloromethane
Concen: 51.837 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU030685.D
Acq: 04 Apr 2019 14:32

Tgt Ion:	129	Resp:	194352
Ion	Ratio	Lower	Upper
129	100		
127	78.9	53.2	98.8



Abundance Ion 129.00 (128.70 to 129.70): VU030685.D (-2203) (-)
Ion 127.00 (126.70 to 127.70): VU030685.D (-2203) (-)





#50

1,2-Dibromoethane

Concen: 51.142 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

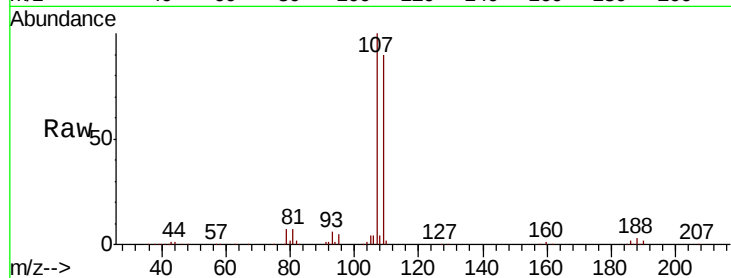
Tgt Ion:107 Resp: 198047

Ion Ratio Lower Upper

107 100

109 89.9 65.8 122.2

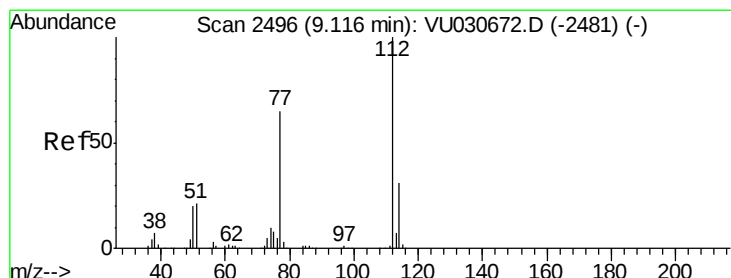
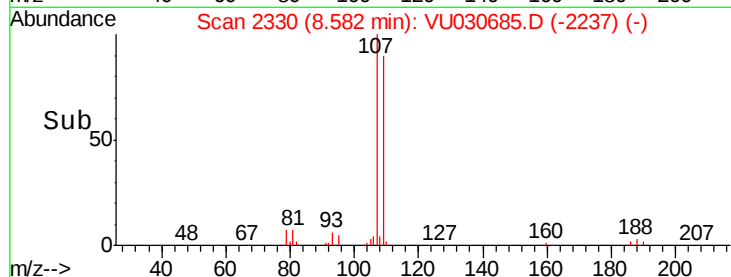
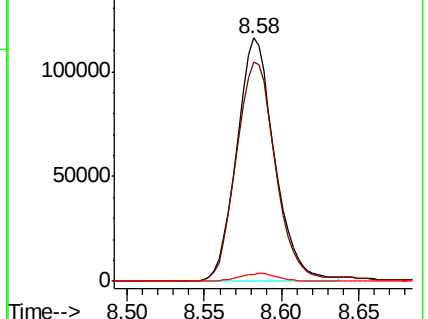
188 3.0 2.6 4.0



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: 50.296 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

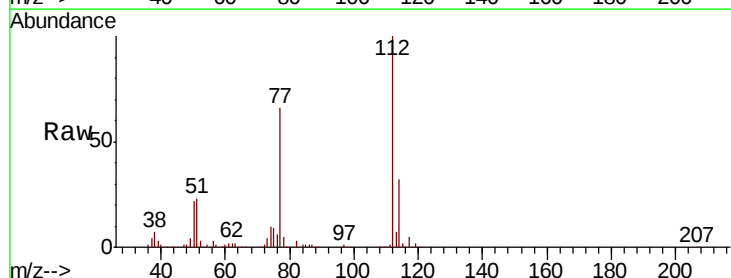
Tgt Ion:112 Resp: 476056

Ion Ratio Lower Upper

112 100

114 31.7 21.5 39.9

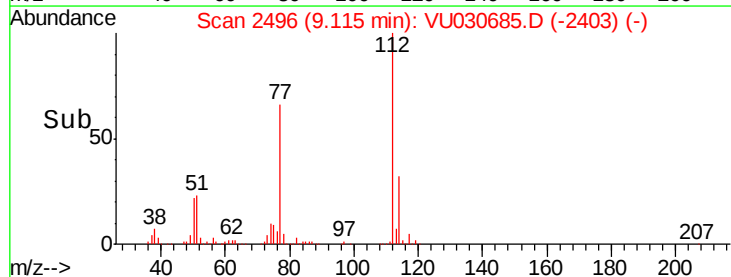
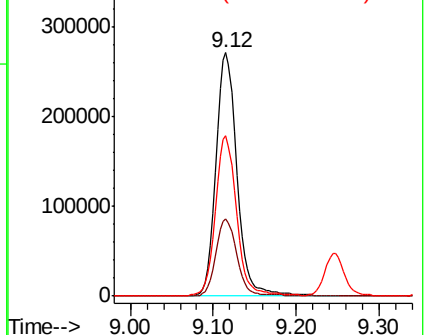
77 65.7 51.4 77.0

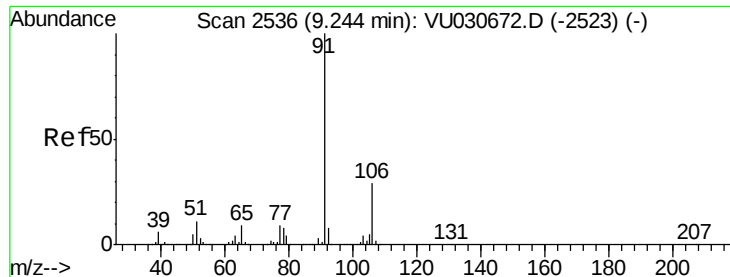


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 51.555 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

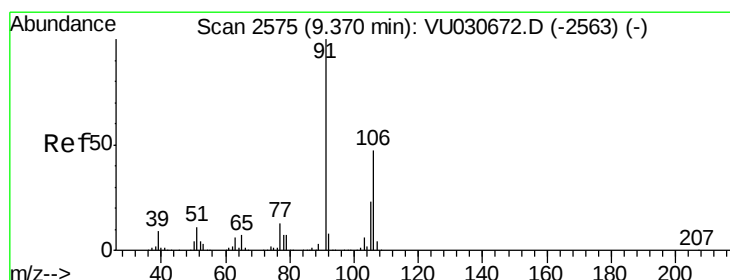
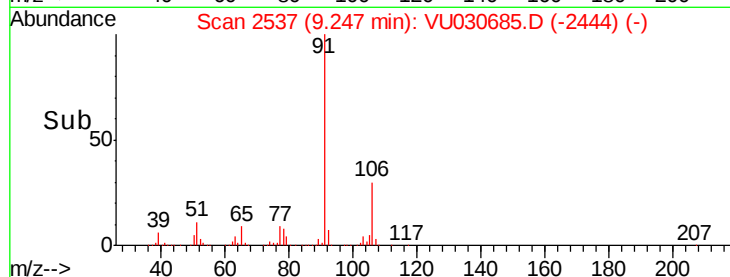
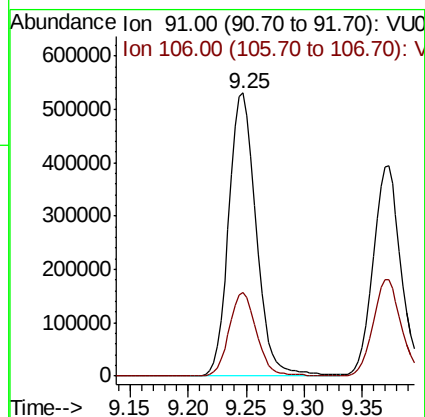
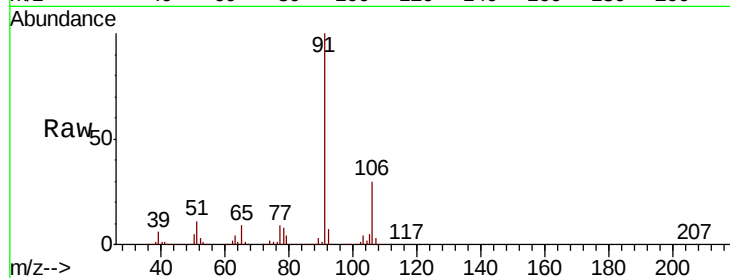
VSTD05047

Tgt Ion: 91 Resp: 872208

Ion Ratio Lower Upper

91 100

106 29.7 20.6 38.2



#53

m,p-Xylene

Concen: 50.662 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030685.D

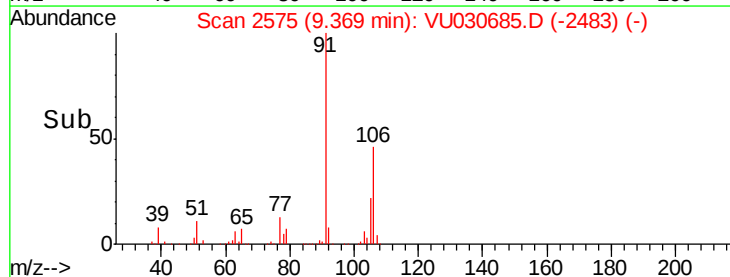
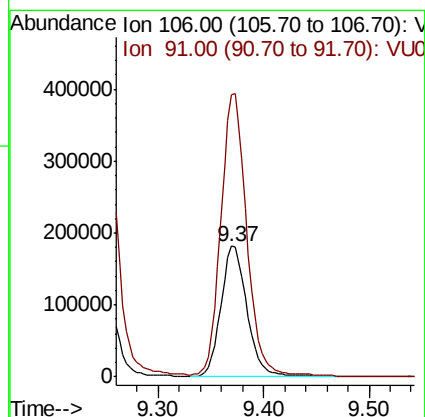
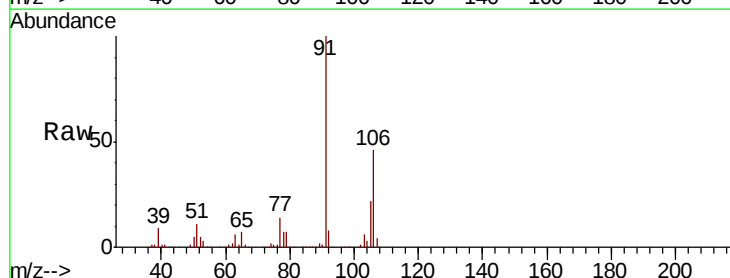
Acq: 04 Apr 2019 14:32

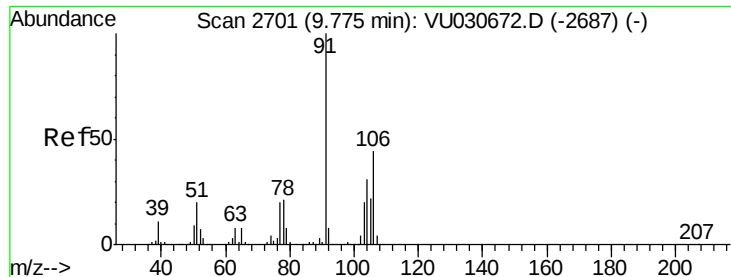
Tgt Ion: 106 Resp: 309473

Ion Ratio Lower Upper

106 100

91 215.7 151.2 280.8





#54

o-xylene

Concen: 51.841 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

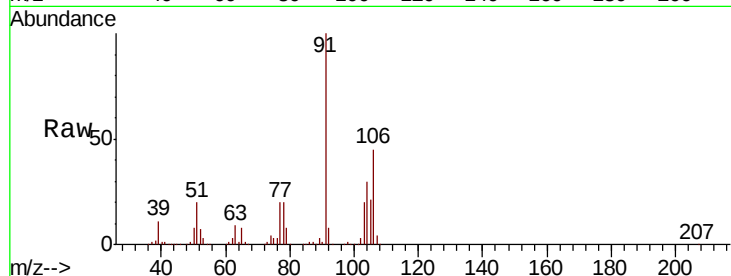
VSTD05047

Tgt Ion:106 Resp: 308996

Ion Ratio Lower Upper

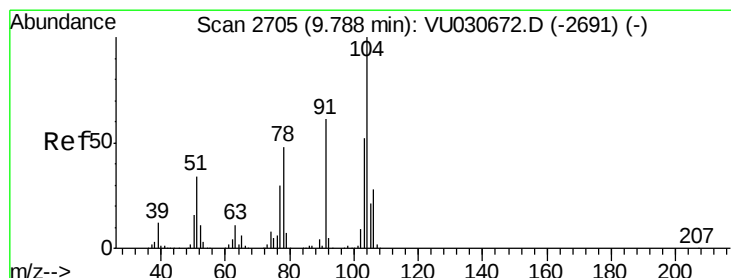
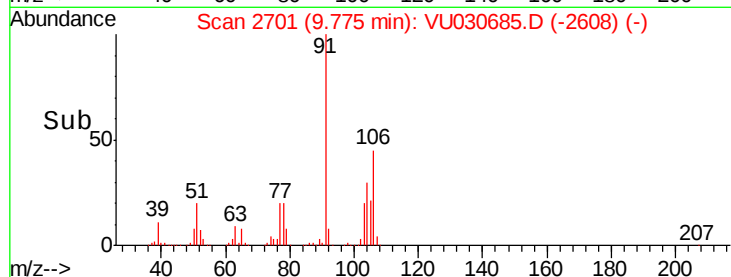
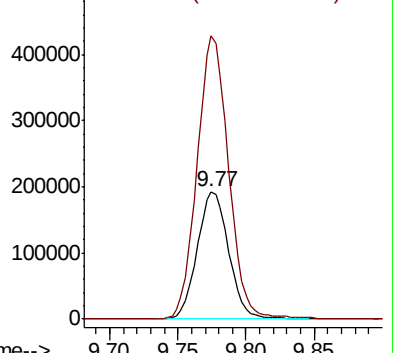
106 100

91 221.4 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 52.311 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. -0.00 min

Lab File: VU030685.D

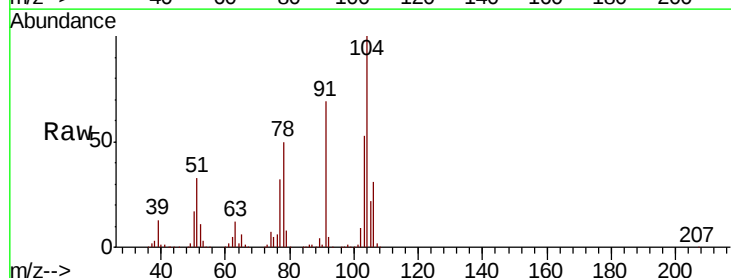
Acq: 04 Apr 2019 14:32

Tgt Ion:104 Resp: 537099

Ion Ratio Lower Upper

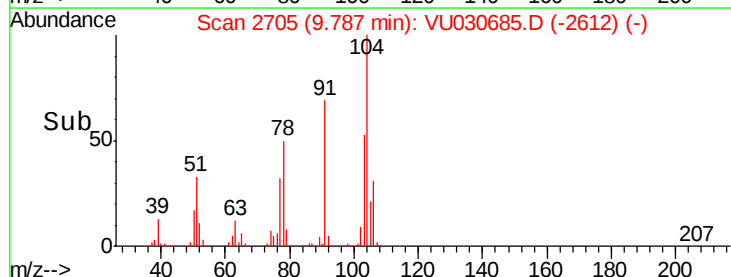
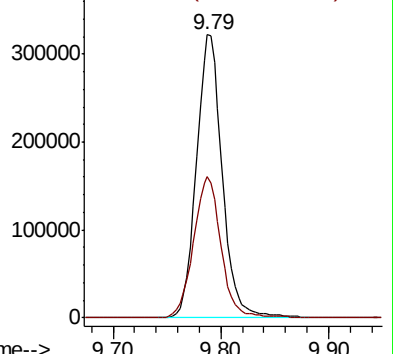
104 100

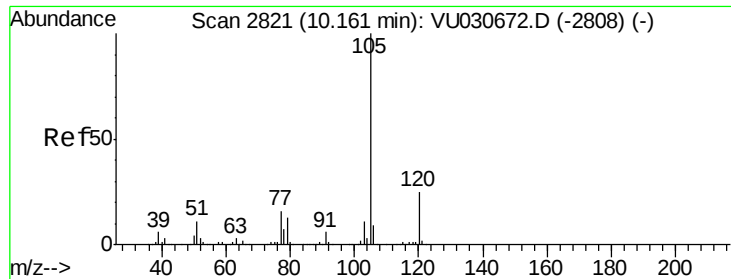
78 49.8 35.1 65.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.663 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

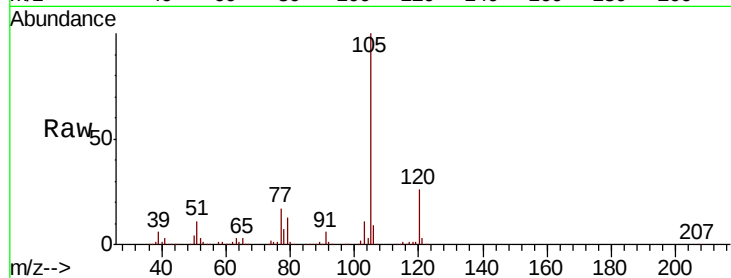
Tgt Ion:105 Resp: 799580

Ion Ratio Lower Upper

105 100

120 25.6 20.2 30.2

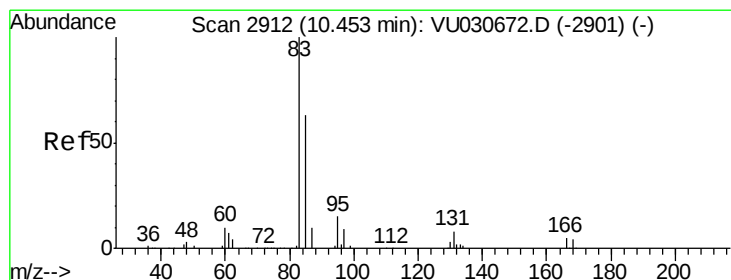
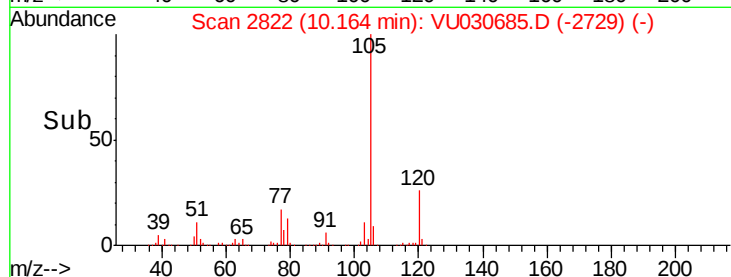
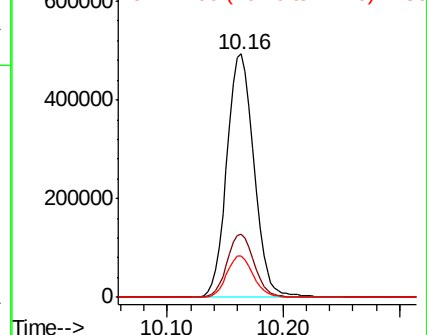
77 16.6 13.2 19.8



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: 50.169 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

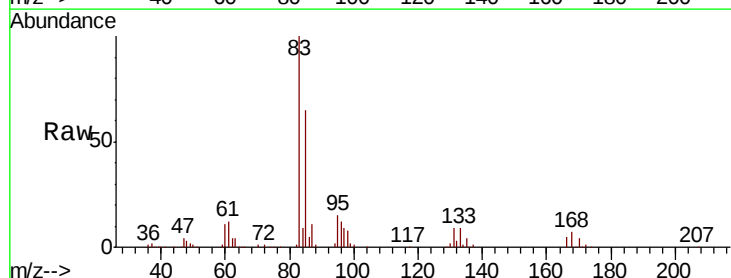
Tgt Ion: 83 Resp: 333637

Ion Ratio Lower Upper

83 100

85 65.2 44.3 82.3

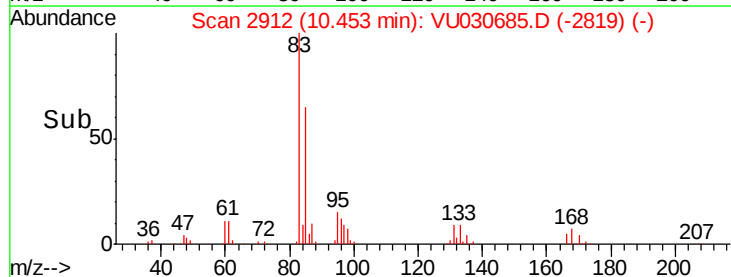
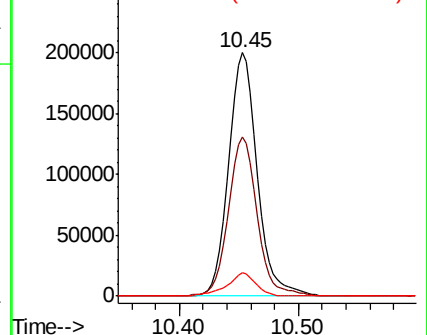
131 9.4 6.7 10.1

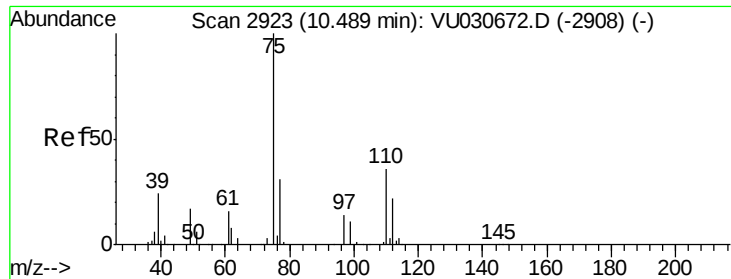


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

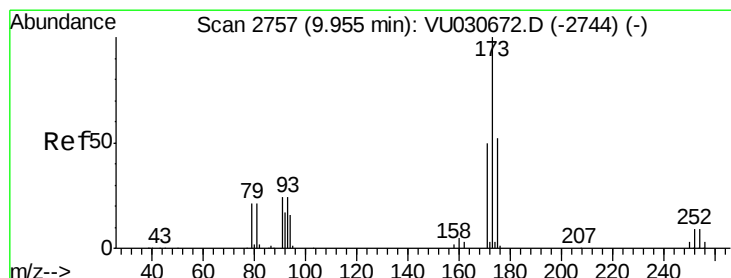
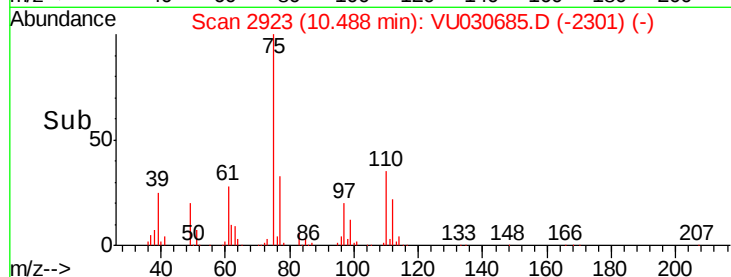
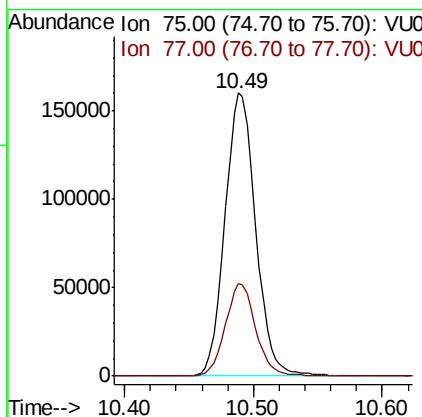
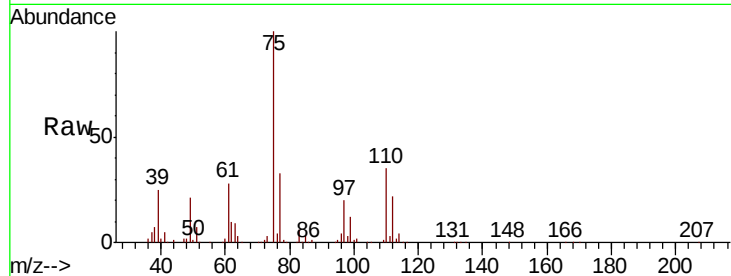




#59
 1,2,3-Trichloropropane
 Concen: 50.760 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. -0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

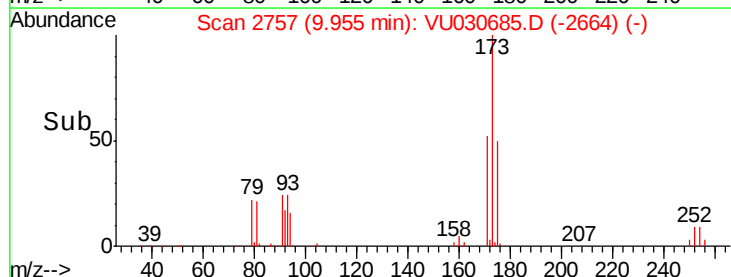
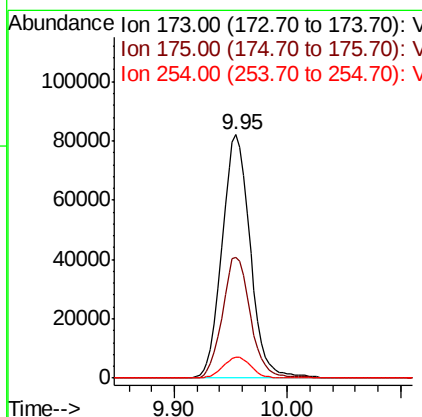
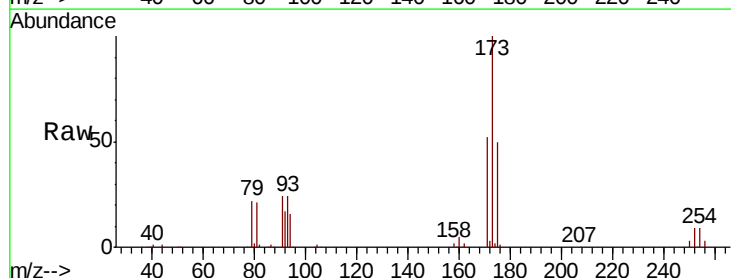
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

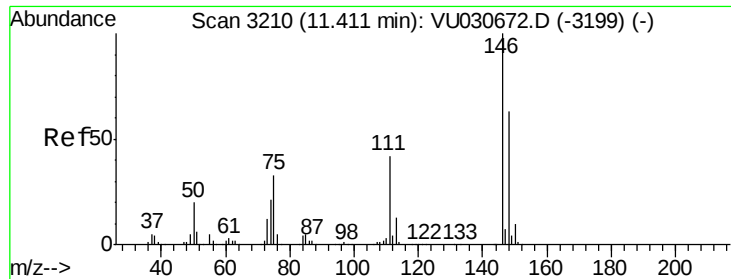
Tgt Ion: 75 Resp: 263850
 Ion Ratio Lower Upper
 75 100
 77 32.4 25.4 38.2



#61
 Bromoform
 Concen: 52.068 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. -0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

Tgt Ion: 173 Resp: 142660
 Ion Ratio Lower Upper
 173 100
 175 49.1 38.5 57.7
 254 8.6 6.8 10.2





#62

1,3-Dichlorobenzene

Concen: 51.286 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

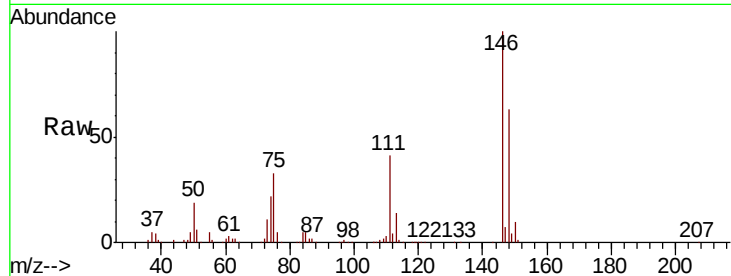
Tgt Ion:146 Resp: 345630

Ion Ratio Lower Upper

146 100

111 41.4 29.2 54.2

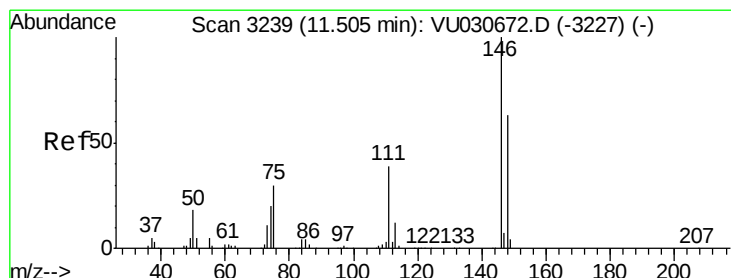
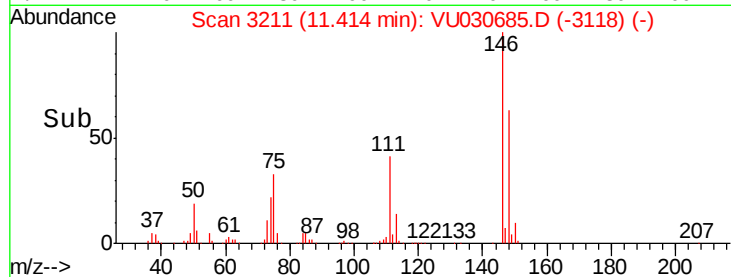
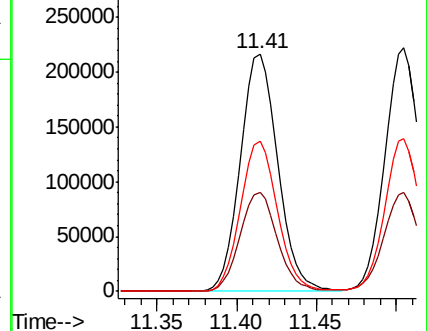
148 63.3 44.4 82.4



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



#63

1,4-Dichlorobenzene

Concen: 50.820 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

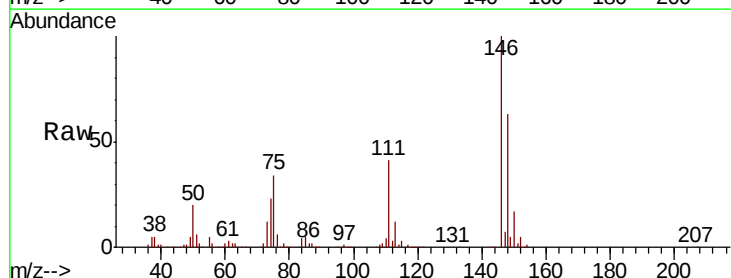
Tgt Ion:146 Resp: 352580

Ion Ratio Lower Upper

146 100

111 40.6 28.7 53.3

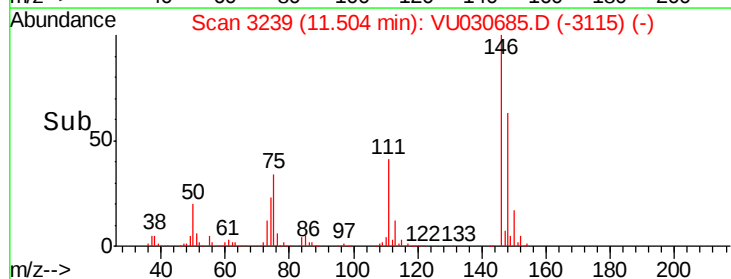
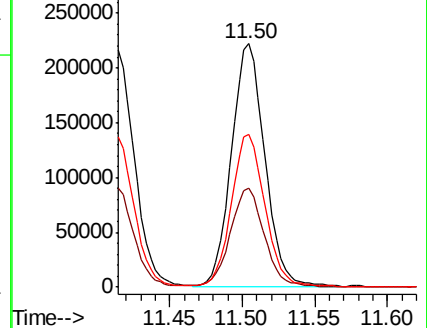
148 62.7 44.3 82.3

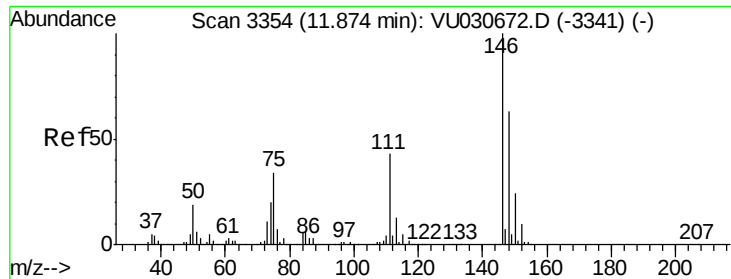


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

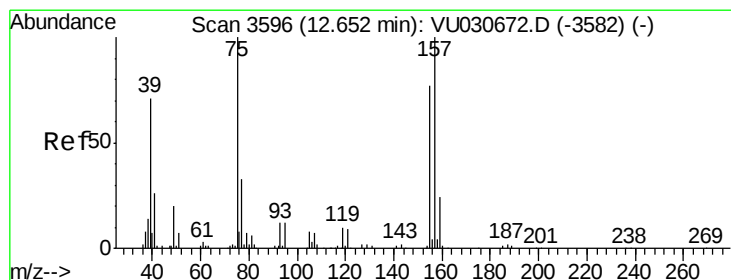
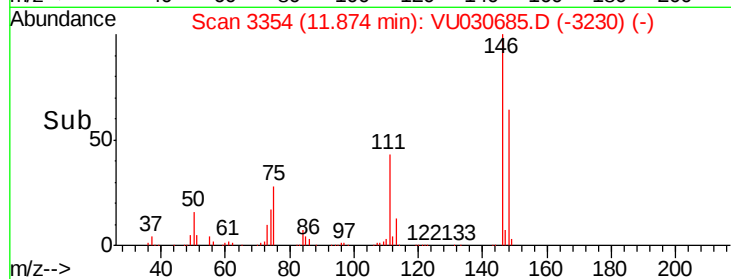
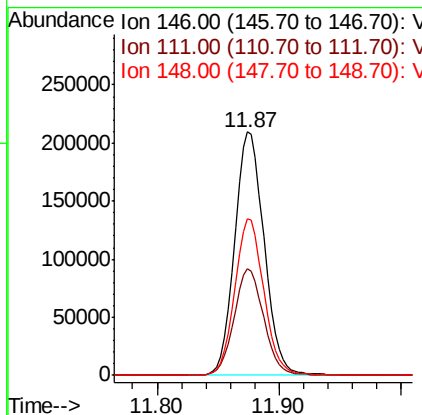
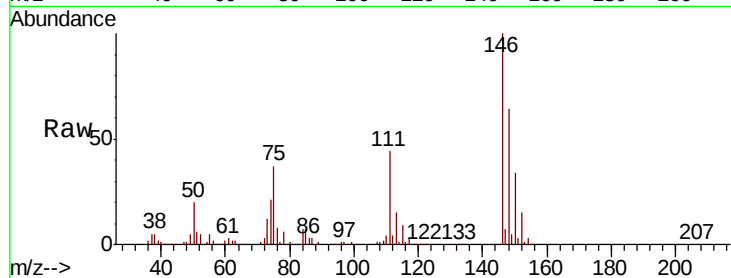




#65
 1,2-Dichlorobenzene
 Concen: 51.488 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

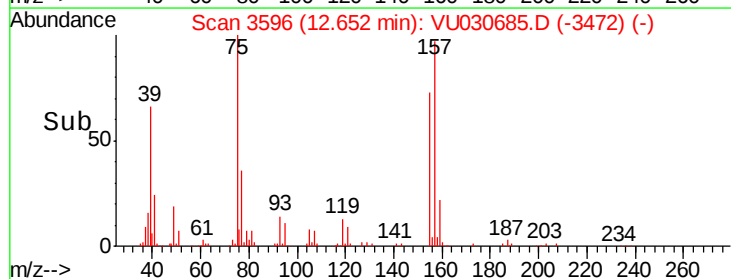
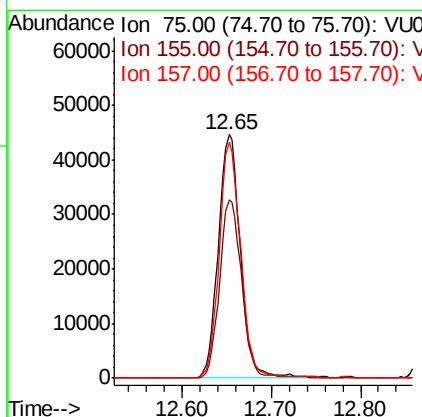
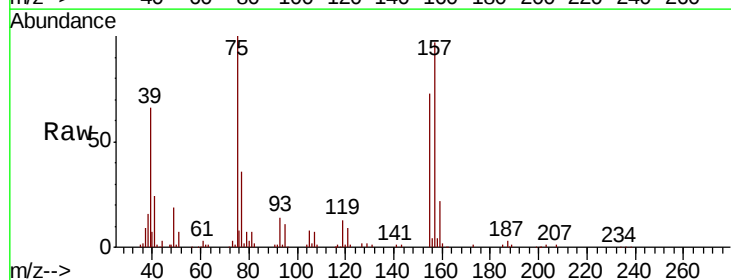
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05047

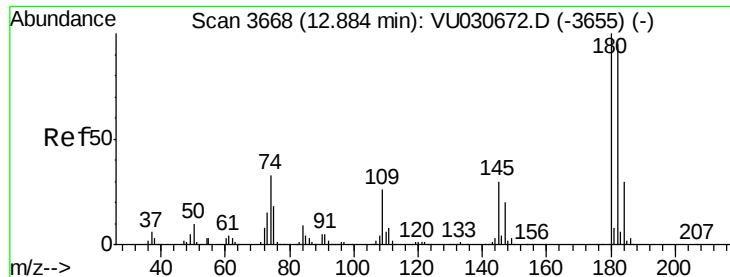
Tgt Ion: 146 Resp: 350860
 Ion Ratio Lower Upper
 146 100
 111 44.1 34.9 52.3
 148 64.1 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.713 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. -0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

Tgt Ion: 75 Resp: 76949
 Ion Ratio Lower Upper
 75 100
 155 73.3 61.8 92.6
 157 96.8 80.2 120.4

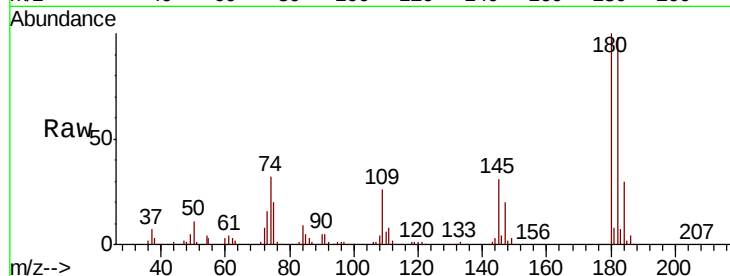




#67
 1,3,5-Trichlorobenzene
 Concen: 50.160 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. -0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05047

Tgt Ion:	180	Resp:	253064
Ion	Ratio	Lower	Upper
180	100		
182	96.6	75.9	113.9
184	30.2	24.1	36.1
145	30.6	23.8	35.8



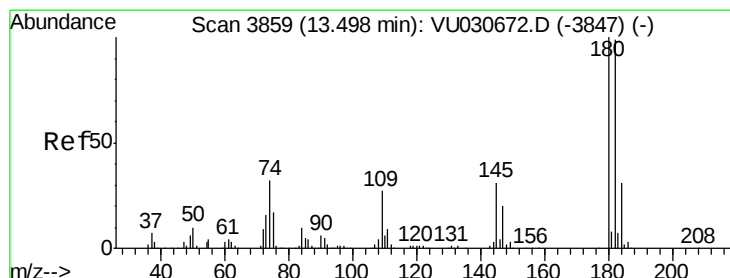
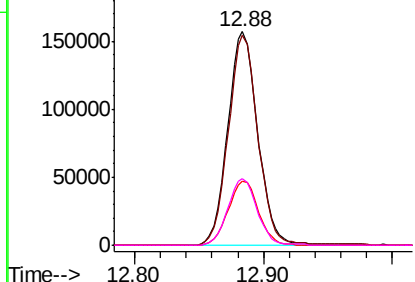
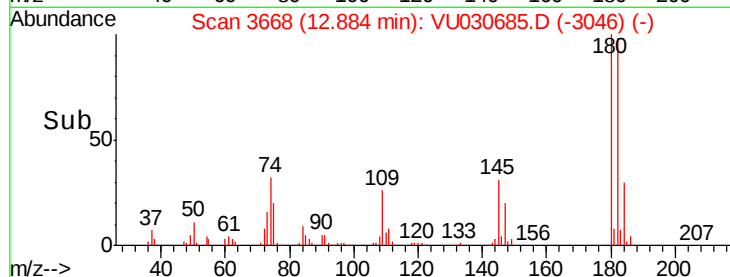
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

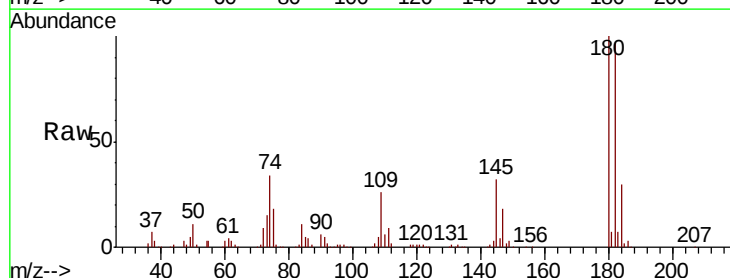
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 49.651 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030685.D
 Acq: 04 Apr 2019 14:32

Tgt Ion:	180	Resp:	217649
Ion	Ratio	Lower	Upper
180	100		
182	97.7	76.1	114.1
145	31.7	24.5	36.7

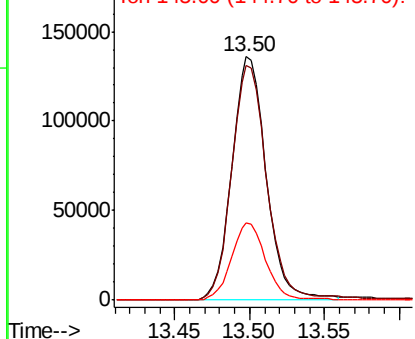
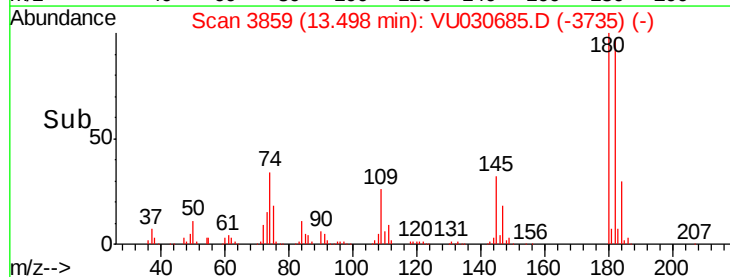


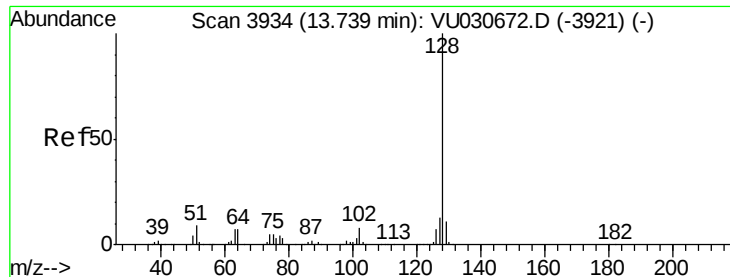
Abundance

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: 47.825 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

Instrument :

MSVOA_U

ClientSampleId :

VSTD05047

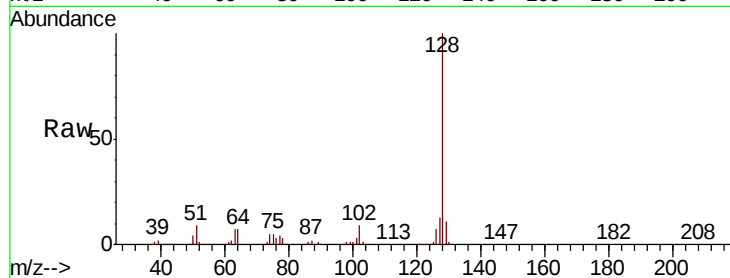
Tgt Ion:128 Resp: 745466

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

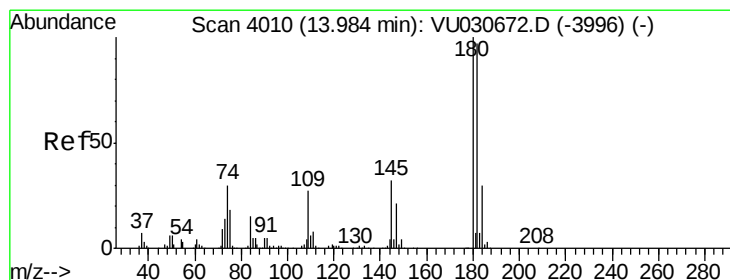
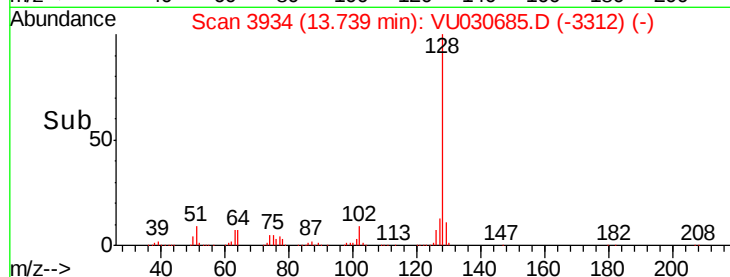
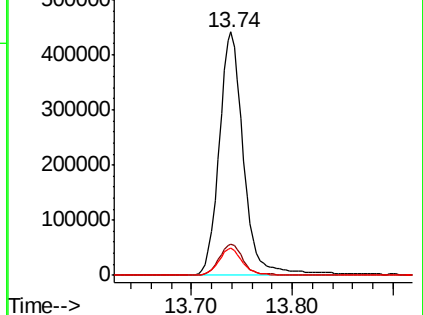
129 10.8 8.4 12.6



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: 49.537 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU030685.D

Acq: 04 Apr 2019 14:32

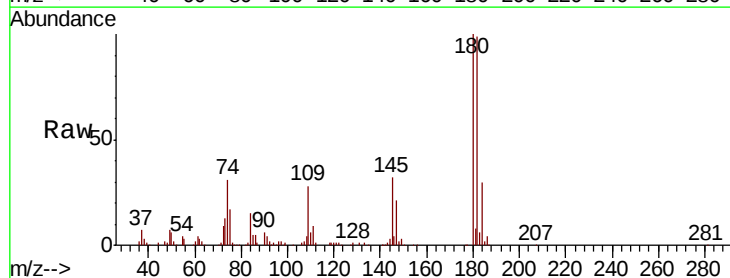
Tgt Ion:180 Resp: 229301

Ion Ratio Lower Upper

180 100

182 98.0 77.4 116.2

145 32.5 25.9 38.9



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

