

Data File : VU030181.D
Acq On : 18 Mar 2019 17:58
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Quant Time: Mar 19 02:30:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031319WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 18 12:44:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	525480	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	513409	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	267948	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	187360	53.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	107.80%
7) Chloroethane-d5	1.68	69	151796	54.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	108.20%
11) 1,1-Dichloroethene-d2	2.27	63	320609	51.10	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.20%
21) 2-Butanone-d5	4.17	46	283595	108.90	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.90%
24) Chloroform-d	4.64	84	335075	53.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.48%
26) 1,2-Dichloroethane-d4	5.31	65	193066	53.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	107.20%
32) Benzene-d6	5.34	84	721429	54.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	109.18%
36) 1,2-Dichloropropane-d6	6.33	67	218337	53.98	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	107.96%
41) Toluene-d8	7.56	98	669722	54.12	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.24%
43) trans-1,3-Dichloropropene-	7.85	79	106832	54.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	109.06%
47) 2-Hexanone-d5	8.31	63	239896	106.00	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	106.00%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	338794	54.51	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	109.02%
64) 1,2-Dichlorobenzene-d4	11.86	152	270592	52.13	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.26%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	146574	44.145 ug/L	99
3) Chloromethane	1.33	50	162394	44.332 ug/L	99
5) Vinyl chloride	1.40	62	184078	45.842 ug/L	99
6) Bromomethane	1.62	94	104259	41.913 ug/L	97
8) Chloroethane	1.69	64	116512	44.270 ug/L	97
9) Trichlorofluoromethane	1.88	101	251801	46.758 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	162731	47.138 ug/L	98
12) 1,1-Dichloroethene	2.28	96	153813	46.701 ug/L	95
13) Acetone	2.32	43	212655	69.841 ug/L	98
14) Carbon disulfide	2.48	76	424337	41.568 ug/L	100
15) Methyl Acetate	2.61	43	199251	50.650 ug/L	98
16) Methylene chloride	2.70	84	184086	47.334 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	165136	46.040 ug/L	98
18) Methyl tert-butyl Ether	3.00	73	515955	48.502 ug/L	100
19) 1,1-Dichloroethane	3.44	63	300740	48.835 ug/L	99
20) cis-1,2-Dichloroethene	4.23	96	197911	48.469 ug/L	98
22) 2-Butanone	4.26	43	297712	85.885 ug/L	100

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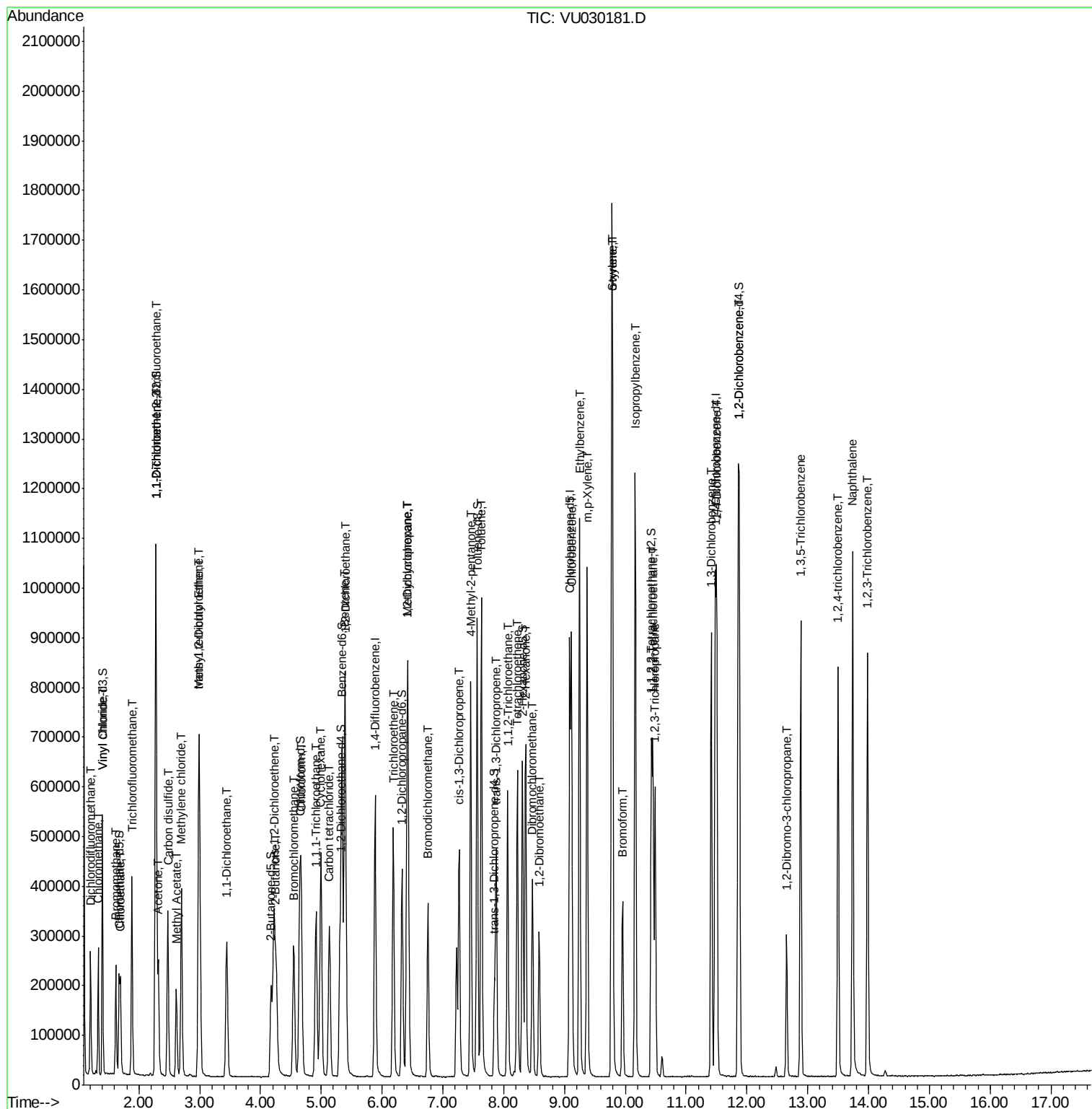
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	100970	47.737	ug/L	98
25) Chloroform	4.67	83	322244	49.856	ug/L	98
27) 1,2-Dichloroethane	5.40	62	227186	48.889	ug/L	99
29) Cyclohexane	4.99	56	251293	44.378	ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	268016	47.819	ug/L	100
31) Carbon tetrachloride	5.13	117	229728	46.417	ug/L	99
33) Benzene	5.39	78	697300	47.463	ug/L	100
34) Trichloroethene	6.18	95	177801	46.177	ug/L	99
35) Methylcyclohexane	6.41	83	274487	43.961	ug/L	99
37) 1,2-Dichloropropane	6.43	63	185837	48.089	ug/L	100
38) Bromodichloromethane	6.75	83	239890	49.920	ug/L	98
39) cis-1,3-Dichloropropene	7.27	75	290323	48.277	ug/L	100
40) 4-Methyl-2-pentanone	7.46	43	512149	98.153	ug/L	99
42) Toluene	7.63	91	765591	47.930	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	271861	49.511	ug/L	100
45) 1,1,2-Trichloroethane	8.06	97	190697	49.344	ug/L	99
46) Tetrachloroethene	8.22	164	153168	45.455	ug/L	98
48) 2-Hexanone	8.36	43	411817	92.514	ug/L	98
49) Dibromochloromethane	8.47	129	214713	49.726	ug/L	98
50) 1,2-Dibromoethane	8.58	107	205908	48.337	ug/L	97
51) Chlorobenzene	9.12	112	509638	47.325	ug/L	100
52) Ethylbenzene	9.25	91	832396	47.337	ug/L	100
53) m,p-Xylene	9.37	106	325233	47.805	ug/L	99
54) o-xylene	9.77	106	318991	47.736	ug/L	98
55) Styrene	9.79	104	557358	48.984	ug/L	98
56) Isopropylbenzene	10.16	105	834191	47.683	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.45	83	335385	50.562	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	249942	49.663	ug/L	100
61) Bromoform	9.95	173	170692	51.178	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	402789	46.548	ug/L	99
63) 1,4-Dichlorobenzene	11.50	146	415459	47.217	ug/L	99
65) 1,2-Dichlorobenzene	11.87	146	416382	47.804	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	70076	49.509	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	312069	46.464	ug/L	99
68) 1,2,4-trichlorobenzene	13.50	180	275377	44.823	ug/L	100
69) Naphthalene	13.74	128	899616	45.069	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	294131	46.085	ug/L	99

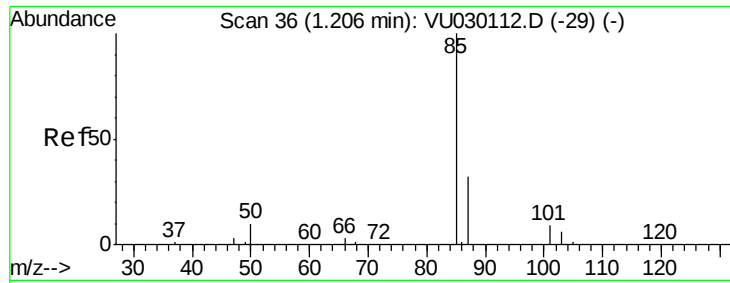
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 44.145 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

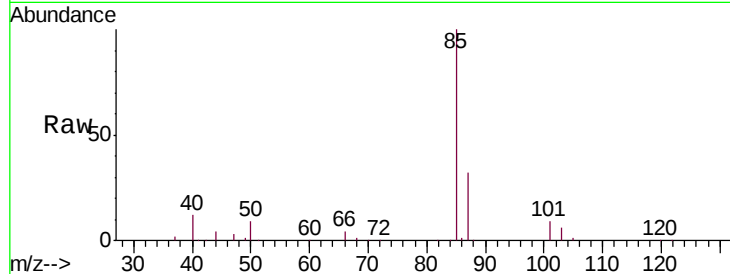
VSTD05044

Tgt Ion: 85 Resp: 146574

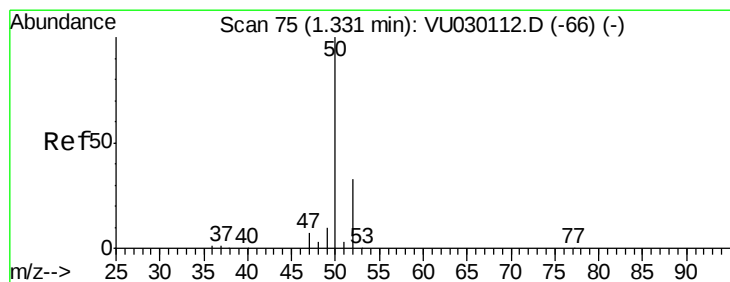
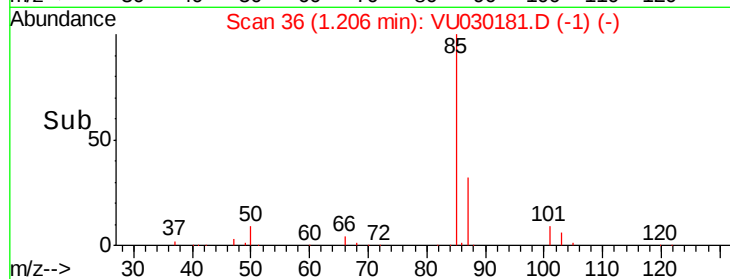
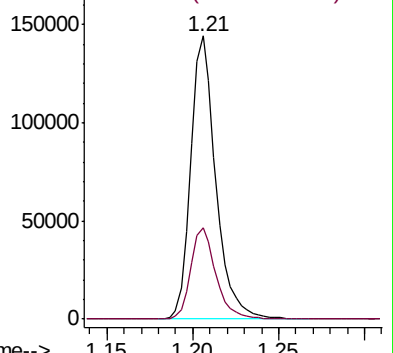
Ion Ratio Lower Upper

85 100

87 32.5 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VU030181.D (-1) (-)



#3

Chloromethane

Concen: 44.332 ug/L

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030181.D

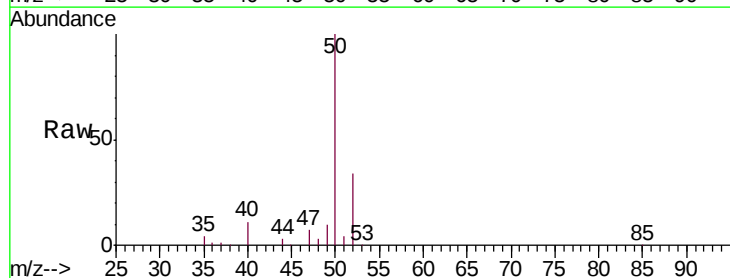
Acq: 18 Mar 2019 17:58

Tgt Ion: 50 Resp: 162394

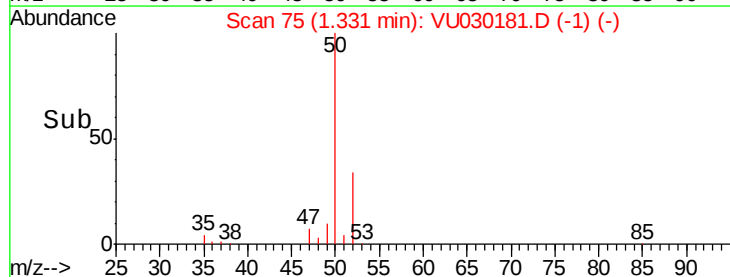
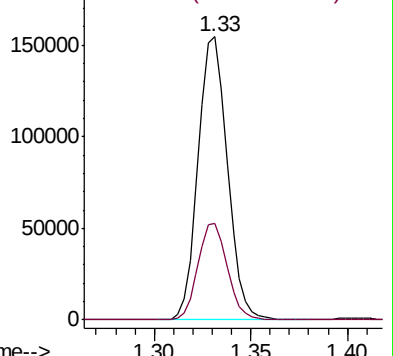
Ion Ratio Lower Upper

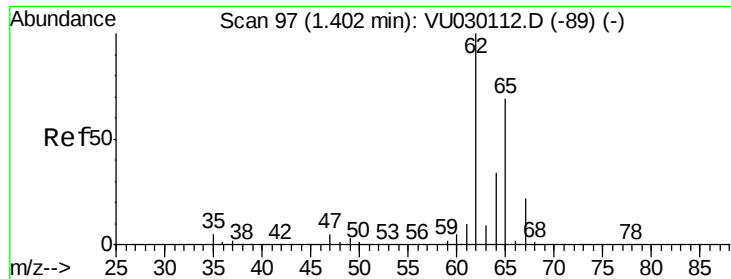
50 100

52 34.2 23.4 43.6



Abundance Ion 50.00 (49.70 to 50.70): VU030181.D (-1) (-)





#5

Vinyl chloride

Concen: 45.842 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

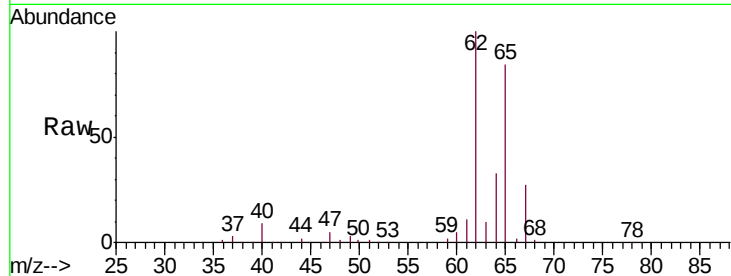
VSTD05044

Tgt Ion: 62 Resp: 184078

Ion Ratio Lower Upper

62 100

64 32.9 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0

1.40

200000

150000

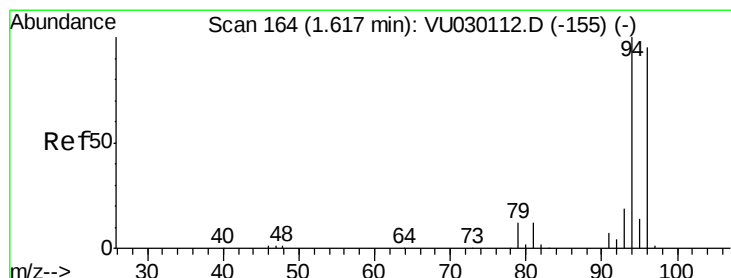
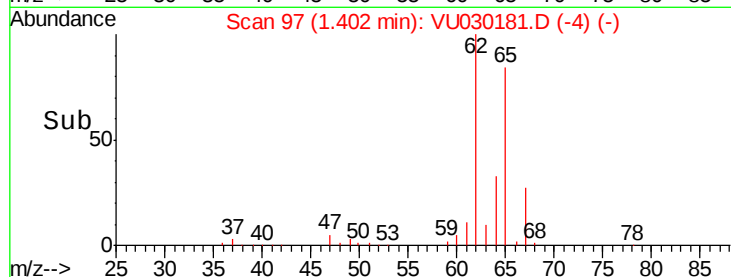
100000

50000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 41.913 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU030181.D

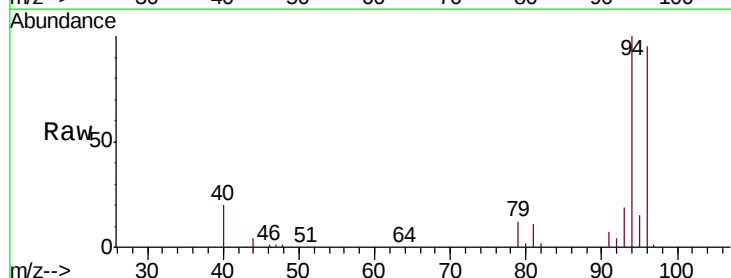
Acq: 18 Mar 2019 17:58

Tgt Ion: 94 Resp: 104259

Ion Ratio Lower Upper

94 100

96 95.2 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.62

80000

60000

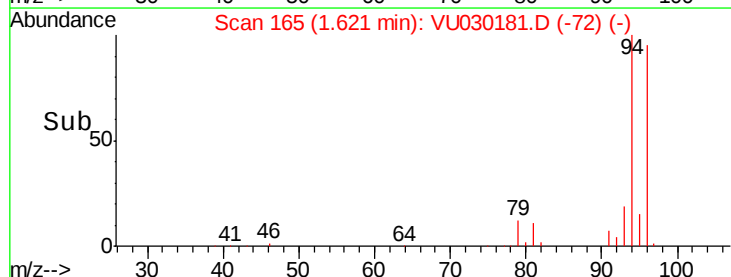
40000

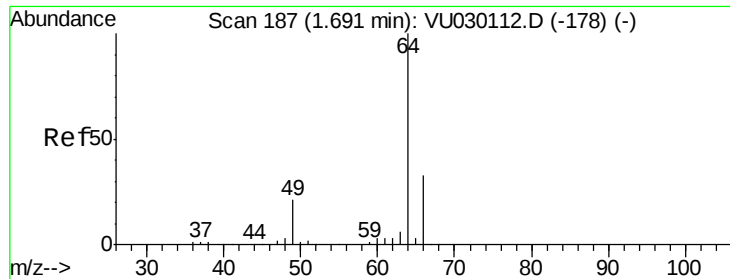
20000

0

Time-->

1.55 1.60 1.65 1.70





#8

Chloroethane

Concen: 44.270 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

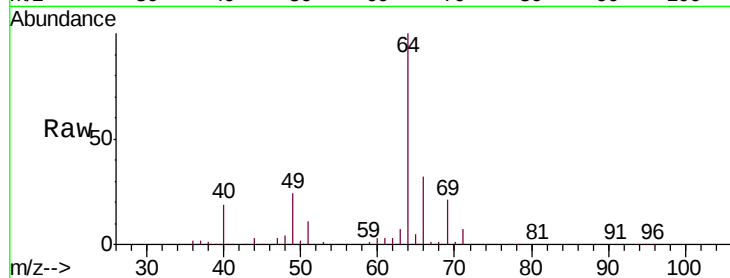
VSTD05044

Tgt Ion: 64 Resp: 116512

Ion Ratio Lower Upper

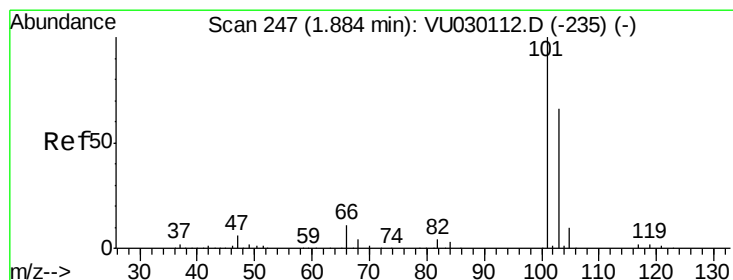
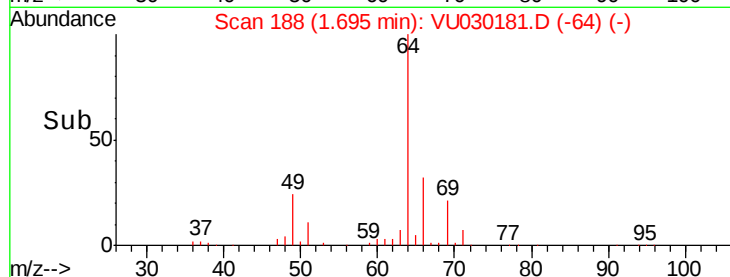
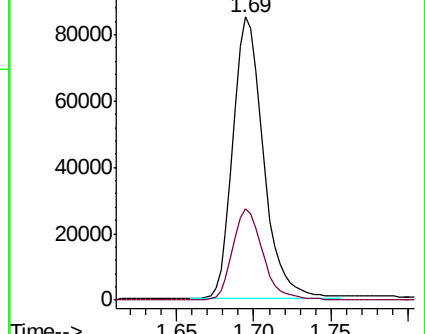
64 100

66 32.2 21.3 39.6



Abundance Ion 64.00 (63.70 to 64.70): VU030181.D (-64) (-)

Ion 66.00 (65.70 to 66.70): VU030181.D (-66) (-)



#9

Trichlorofluoromethane

Concen: 46.758 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU030181.D

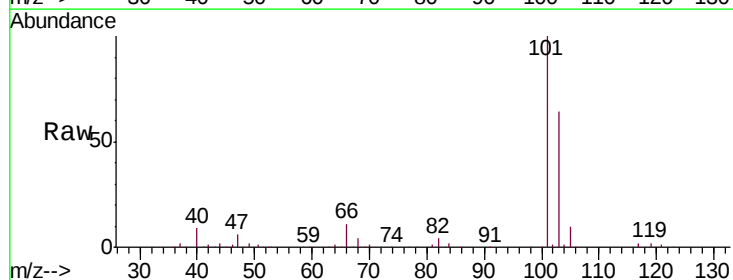
Acq: 18 Mar 2019 17:58

Tgt Ion: 101 Resp: 251801

Ion Ratio Lower Upper

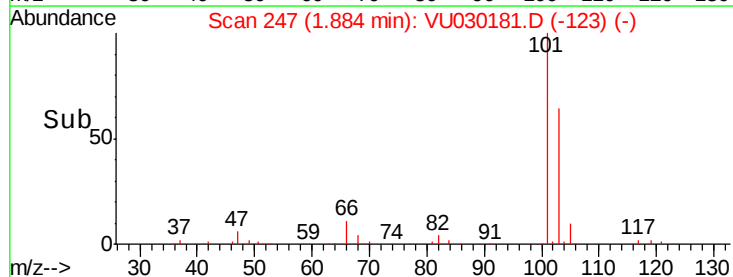
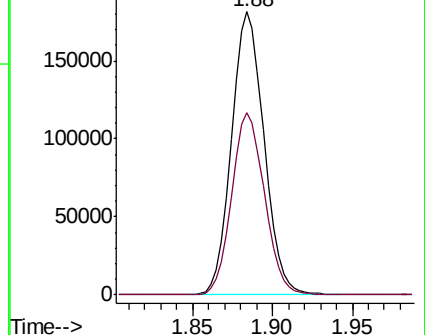
101 100

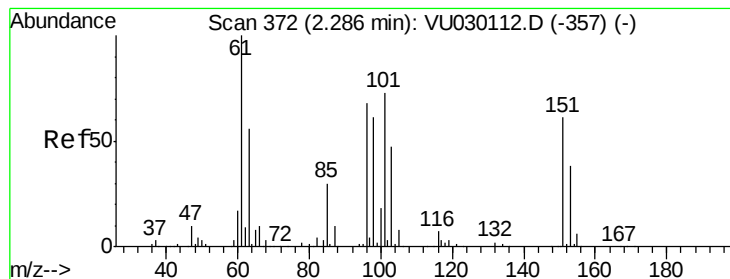
103 64.9 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VU030181.D (-101) (-)

Ion 103.00 (102.70 to 103.70): VU030181.D (-103) (-)





#10

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

Concen: 47.138 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU030181.D

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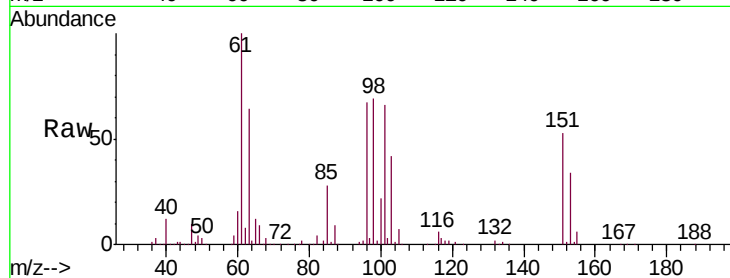
Tgt Ion: 101 Resp: 162731

Ion Ratio Lower Upper

101 100

85 41.4 33.0 49.4

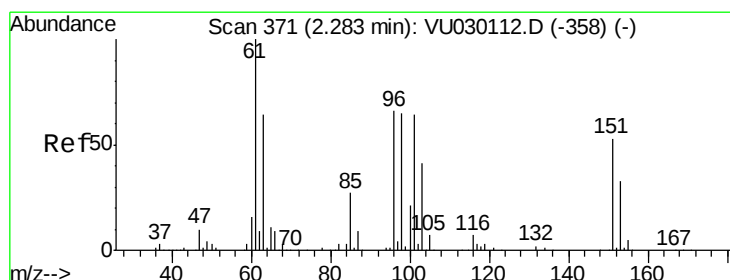
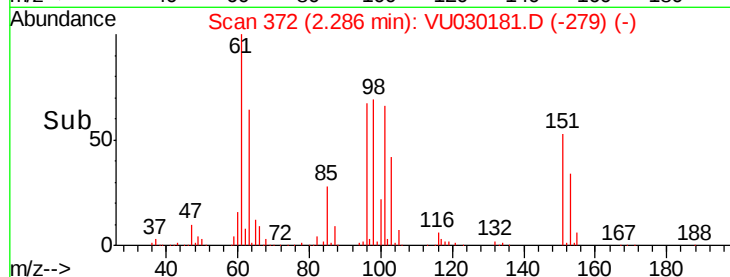
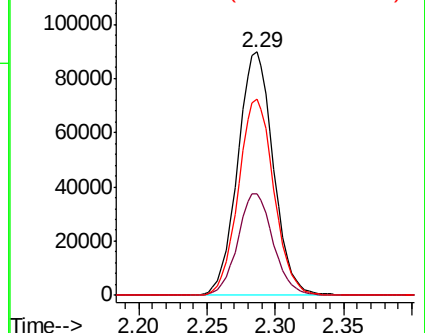
151 80.3 66.1 99.1



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: 46.701 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

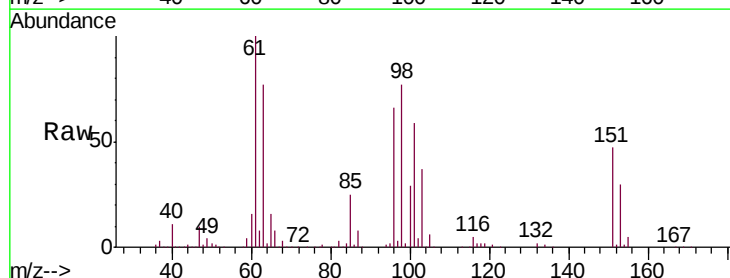
Tgt Ion: 96 Resp: 153813

Ion Ratio Lower Upper

96 100

61 151.3 110.4 205.0

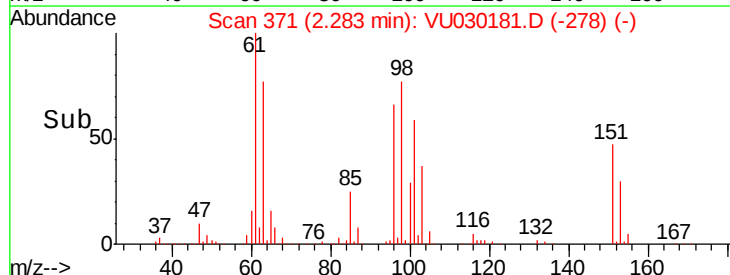
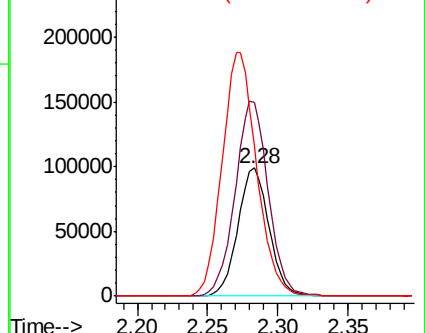
63 116.7 86.5 160.7

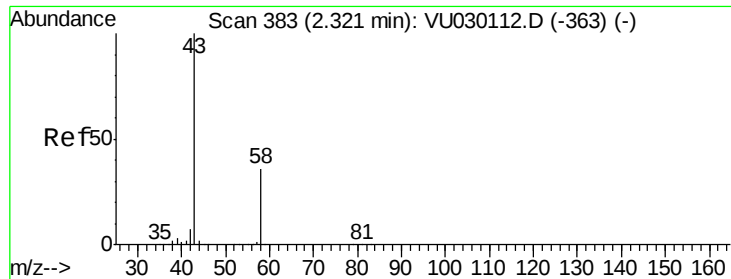


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 69.841 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VU030181.D

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ClientSampleId :

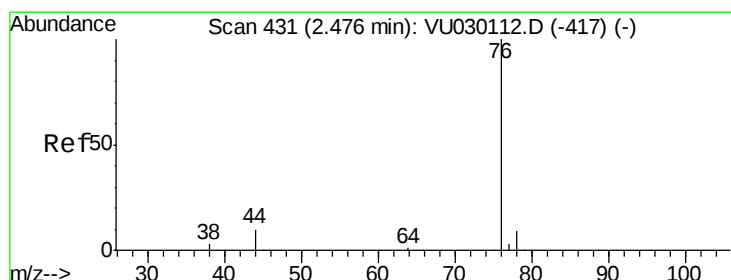
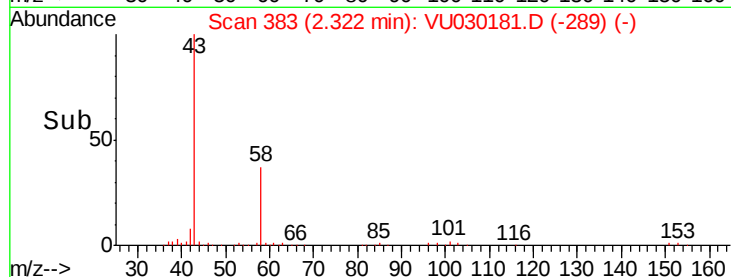
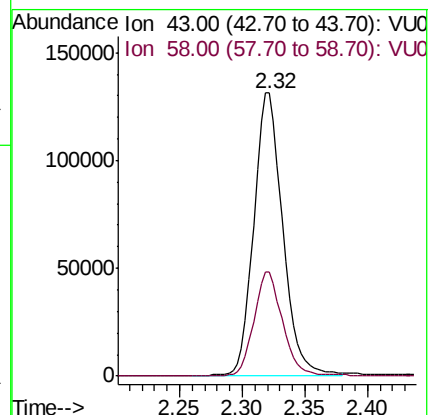
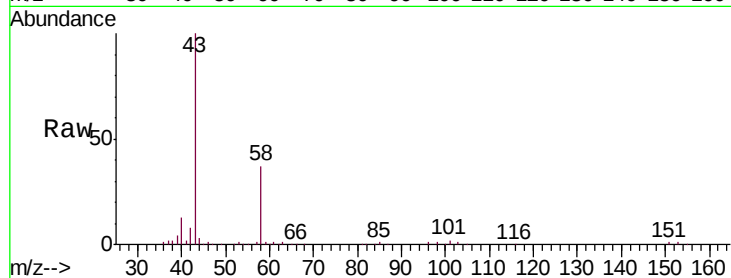
VSTD05044

Tgt Ion: 43 Resp: 212655

Ion Ratio Lower Upper

43 100

58 35.6 0.0 73.0



#14

Carbon disulfide

Concen: 41.568 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

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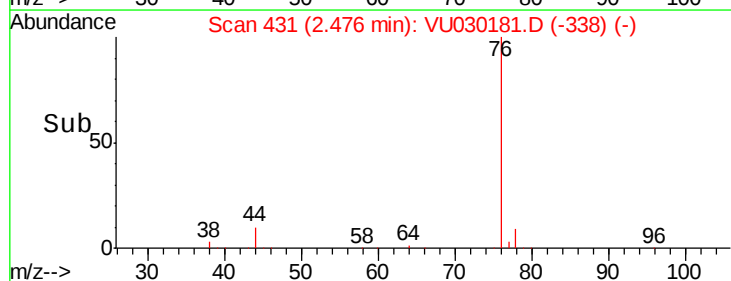
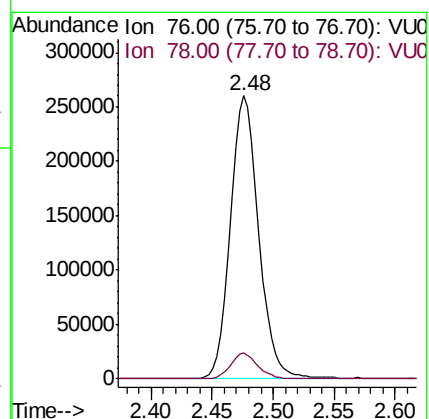
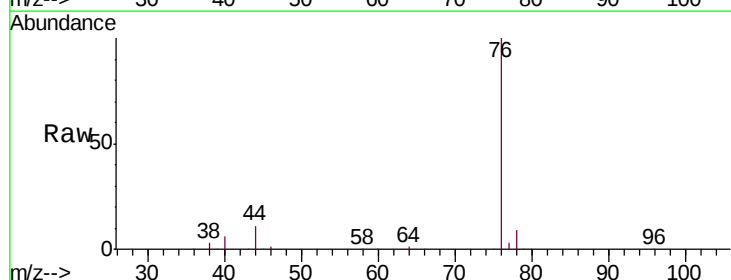
Acq: 18 Mar 2019 17:58

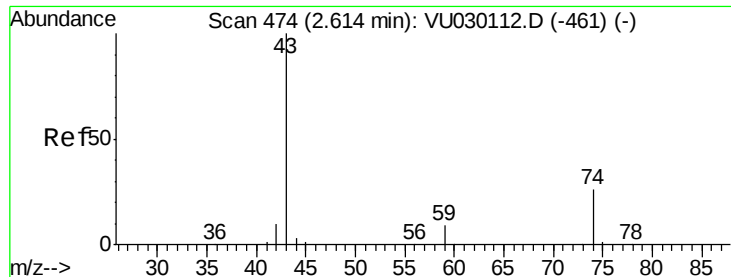
Tgt Ion: 76 Resp: 424337

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9

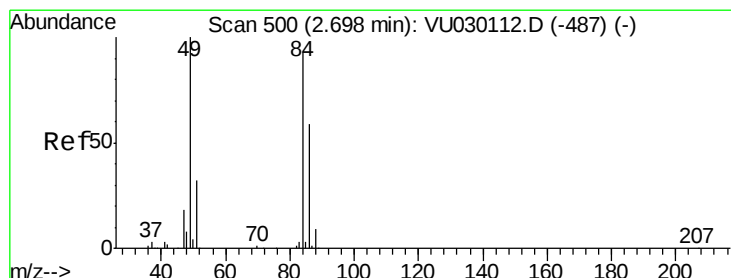
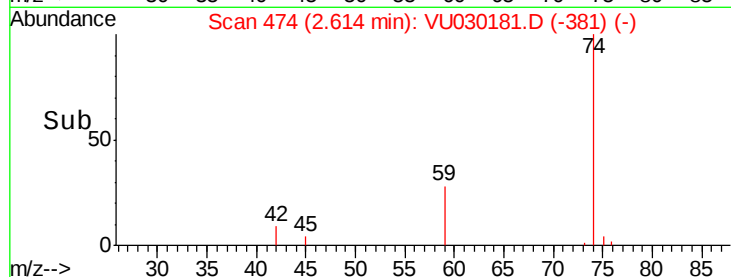
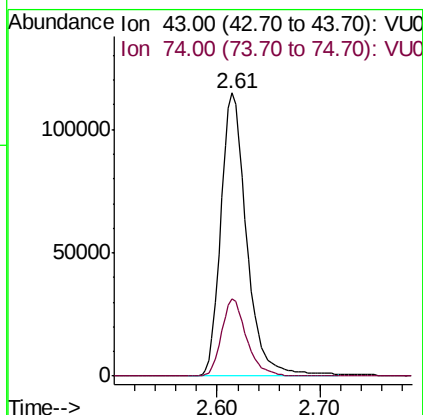
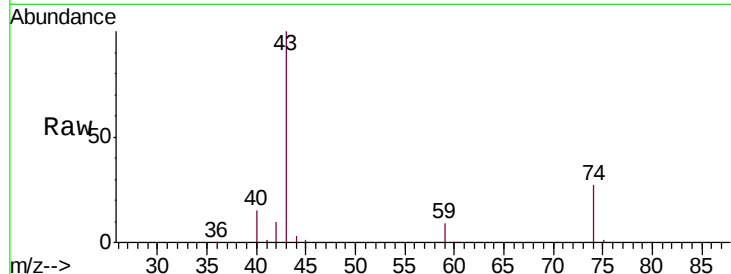




#15
Methyl Acetate
Concen: 50.650 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

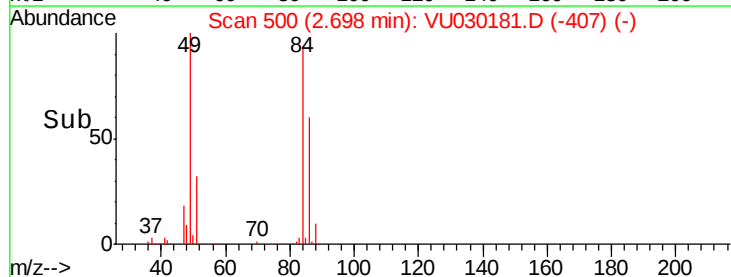
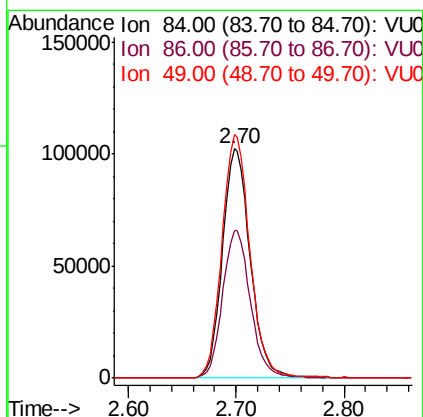
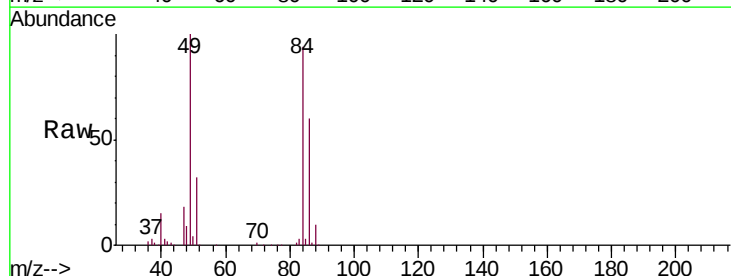
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

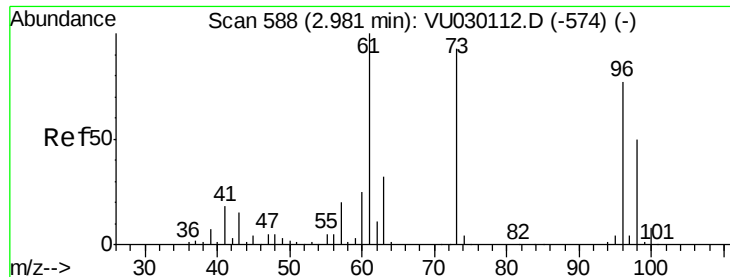
Tgt Ion: 43 Resp: 199251
Ion Ratio Lower Upper
43 100
74 26.4 21.9 32.9



#16
Methylene chloride
Concen: 47.334 ug/L
RT: 2.70 min Scan# 500
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

Tgt Ion: 84 Resp: 184086
Ion Ratio Lower Upper
84 100
86 64.2 45.2 84.0
49 106.3 73.6 136.6





#17

trans-1,2-Dichloroethene

Concen: 46.040 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

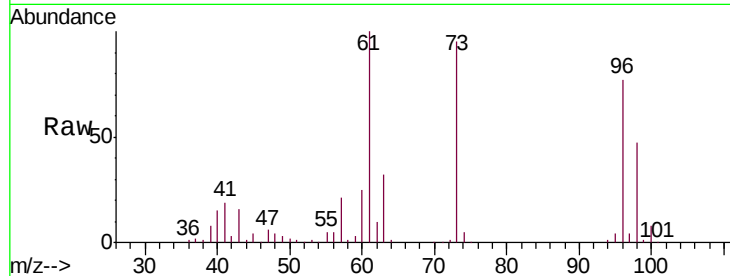
Tgt Ion: 96 Resp: 165136

Ion Ratio Lower Upper

96 100

61 130.3 89.4 166.0

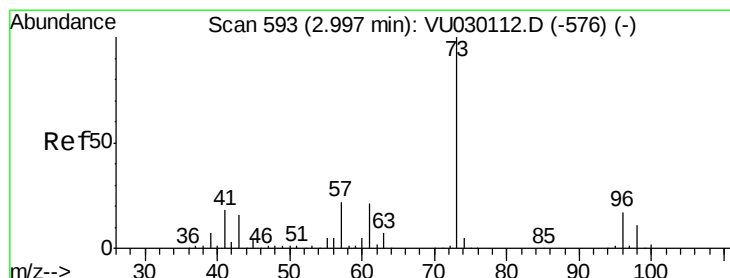
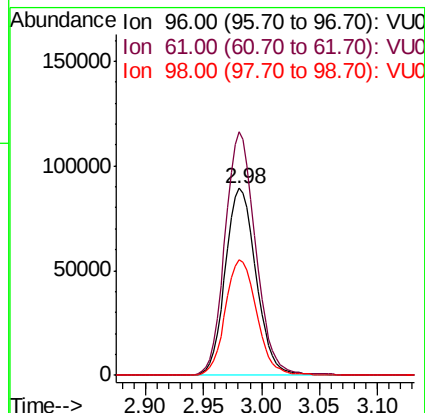
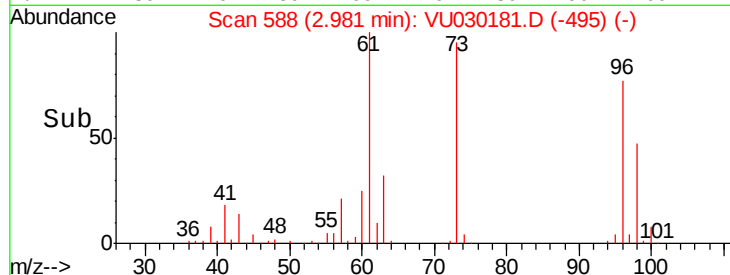
98 61.7 43.3 80.5



Abundance Ion 96.00 (95.70 to 96.70): VU030181.D (-500) (-)

Ion 61.00 (60.70 to 61.70): VU030181.D (-500) (-)

Ion 98.00 (97.70 to 98.70): VU030181.D (-500) (-)



#18

Methyl tert-butyl Ether

Concen: 48.502 ug/L

RT: 3.00 min Scan# 593

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

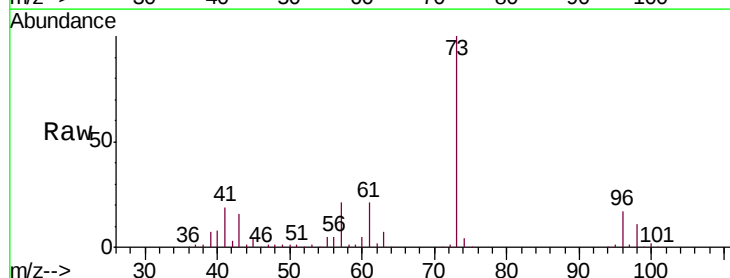
Tgt Ion: 73 Resp: 515955

Ion Ratio Lower Upper

73 100

43 16.2 13.1 19.7

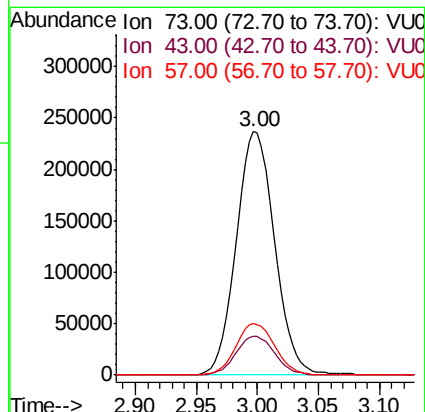
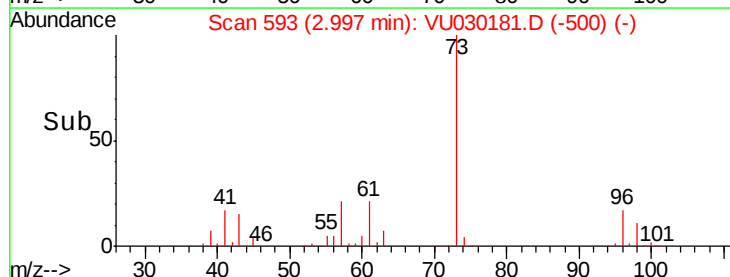
57 21.6 17.1 25.7

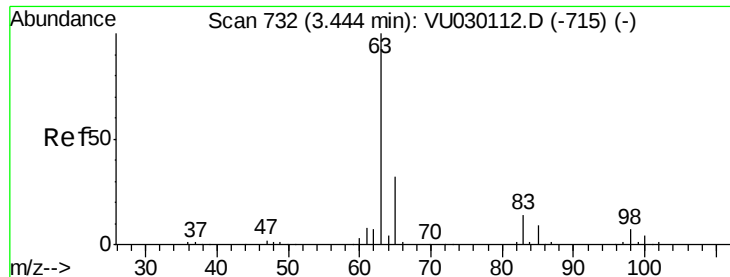


Abundance Ion 73.00 (72.70 to 73.70): VU030181.D (-500) (-)

Ion 43.00 (42.70 to 43.70): VU030181.D (-500) (-)

Ion 57.00 (56.70 to 57.70): VU030181.D (-500) (-)

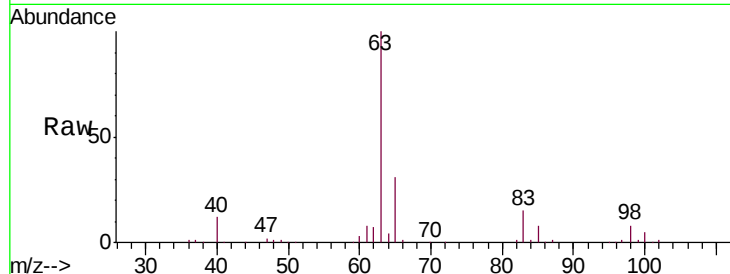




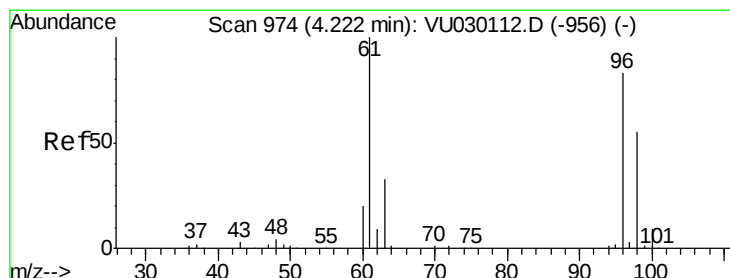
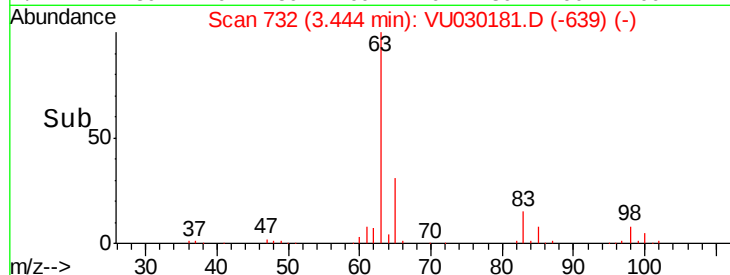
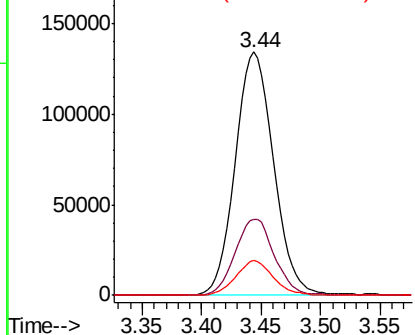
#19
 1,1-Dichloroethane
 Concen: 48.835 ug/L
 RT: 3.44 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion: 63 Resp: 300740
 Ion Ratio Lower Upper
 63 100
 65 31.4 22.0 41.0
 83 14.5 9.7 18.1

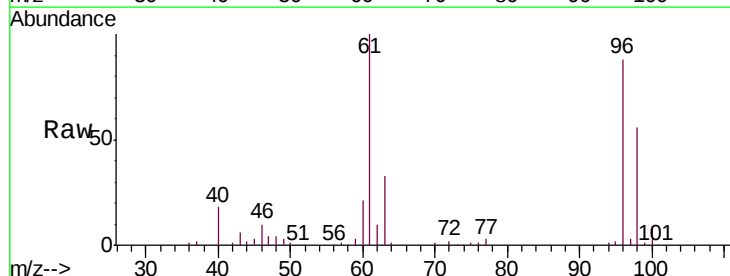


Abundance Ion 63.00 (62.70 to 63.70): VU0
 Ion 65.00 (64.70 to 65.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0

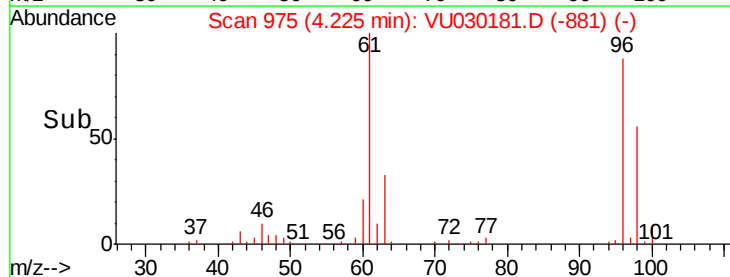
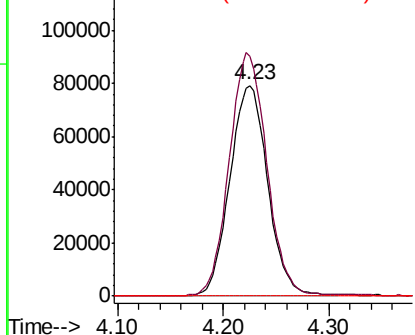


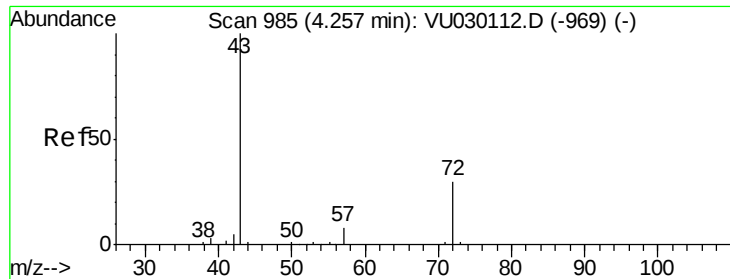
#20
 cis-1,2-Dichloroethene
 Concen: 48.469 ug/L
 RT: 4.23 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

Tgt Ion: 96 Resp: 197911
 Ion Ratio Lower Upper
 96 100
 61 113.6 80.8 150.2
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0





#22

2-Butanone

Concen: 85.885 ug/L

RT: 4.26 min Scan# 985

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

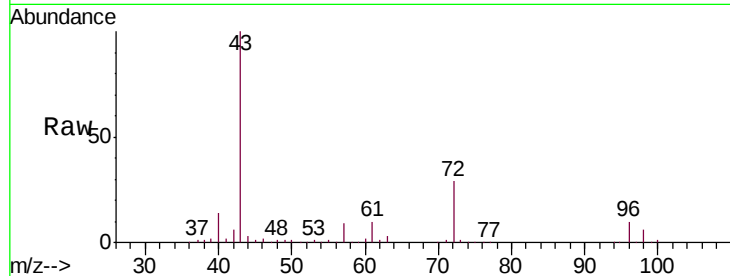
VSTD05044

Tgt Ion: 43 Resp: 297712

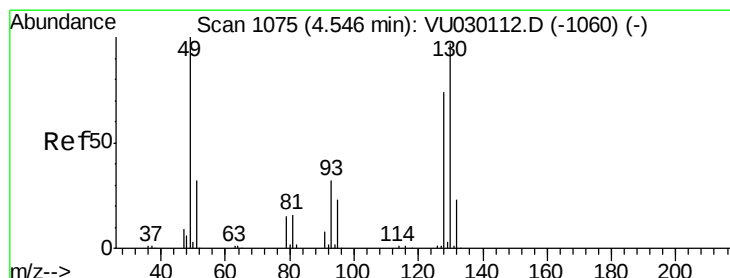
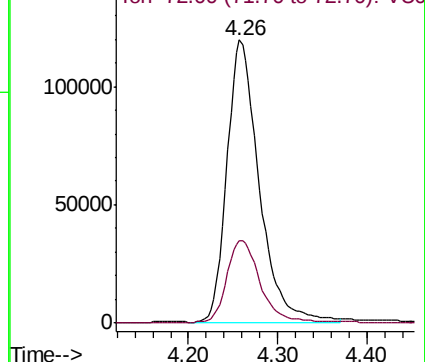
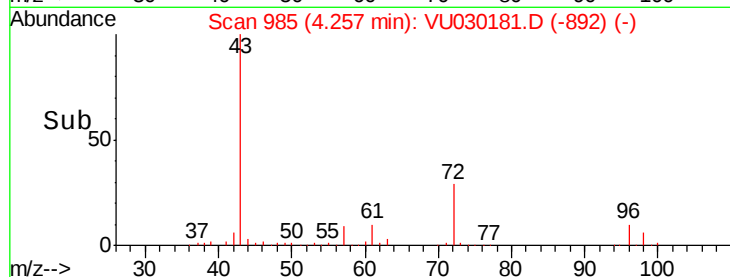
Ion Ratio Lower Upper

43 100

72 30.5 15.3 45.9



Abundance Ion 43.00 (42.70 to 43.70): VU030181.D (-892) (-)



#23

Bromochloromethane

Concen: 47.737 ug/L

RT: 4.55 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Tgt Ion: 128 Resp: 100970

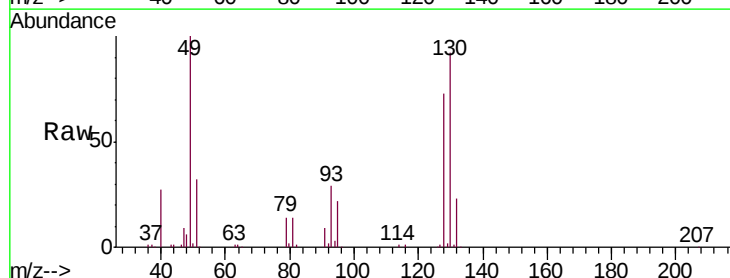
Ion Ratio Lower Upper

128 100

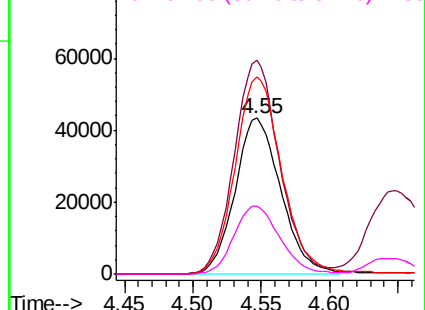
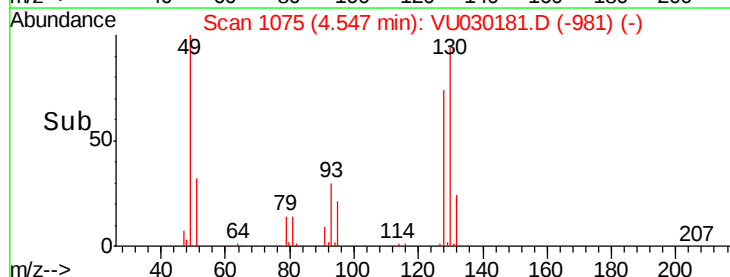
49 137.2 94.5 175.5

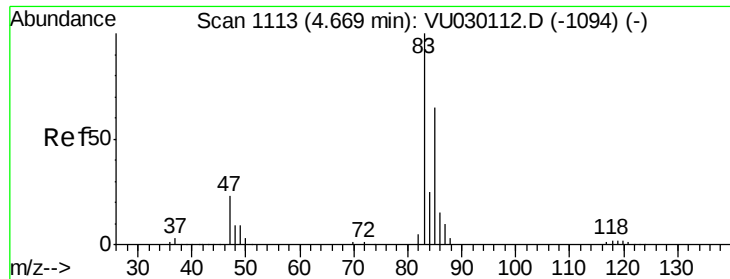
130 126.7 91.4 169.8

51 43.4 34.2 51.2



Abundance Ion 128.00 (127.70 to 128.70): VU030181.D (-981) (-)

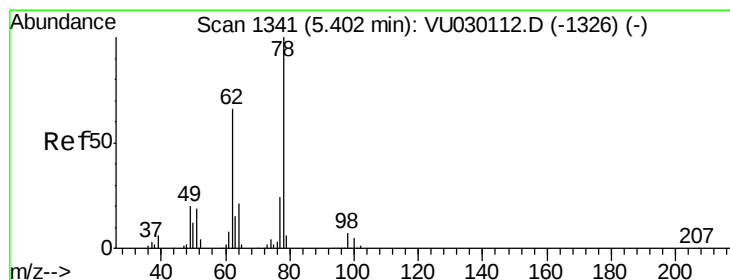
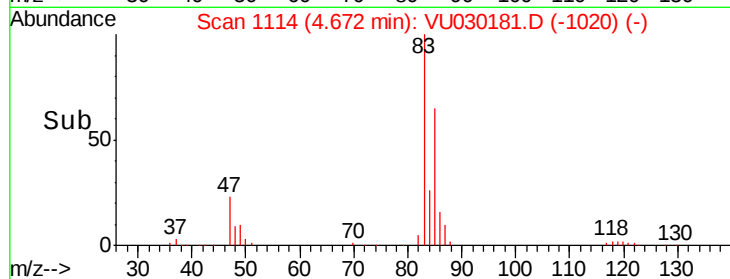
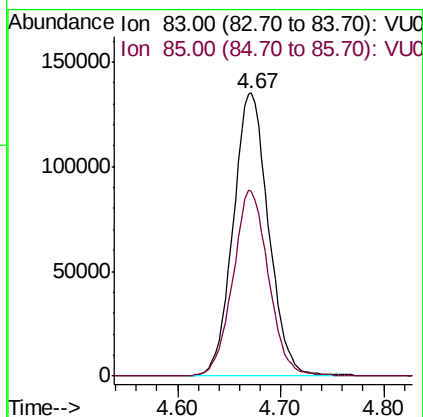
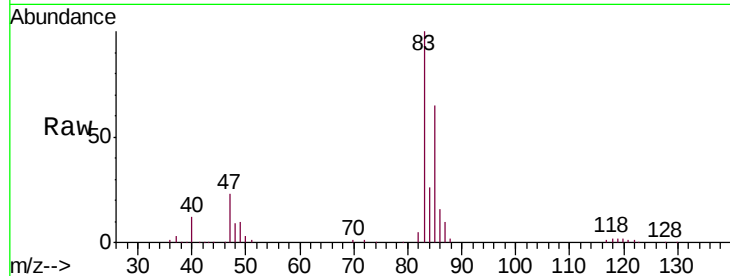




#25
Chloroform
Concen: 49.856 ug/L
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

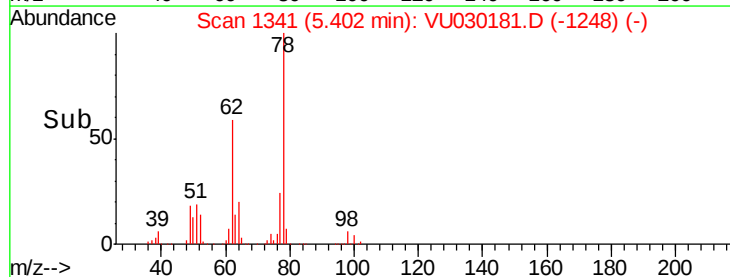
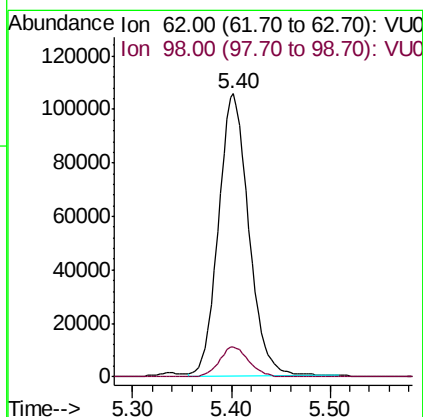
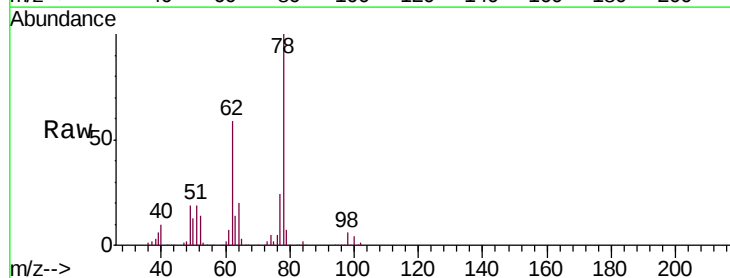
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

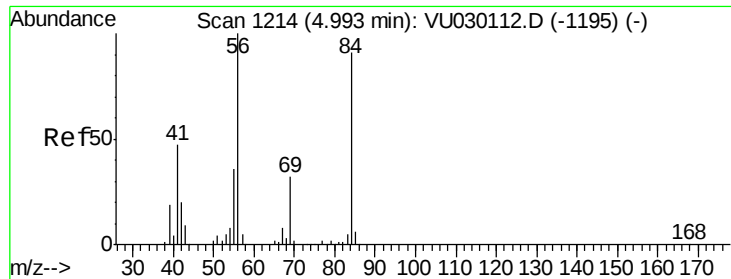
Tgt Ion: 83 Resp: 322244
Ion Ratio Lower Upper
83 100
85 65.4 44.9 83.5



#27
1,2-Dichloroethane
Concen: 48.889 ug/L
RT: 5.40 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

Tgt Ion: 62 Resp: 227186
Ion Ratio Lower Upper
62 100
98 10.7 8.8 13.2

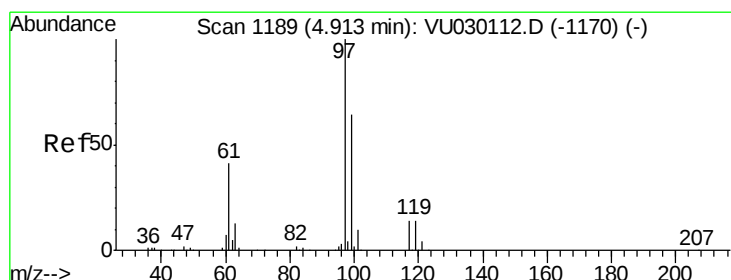
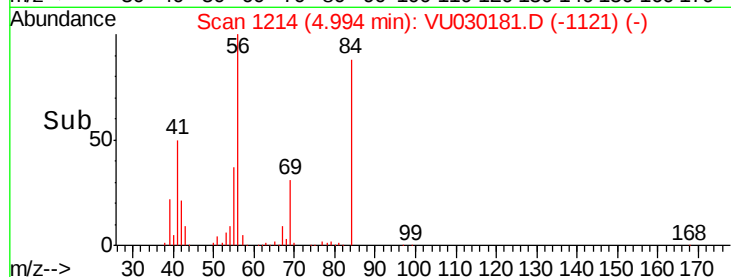
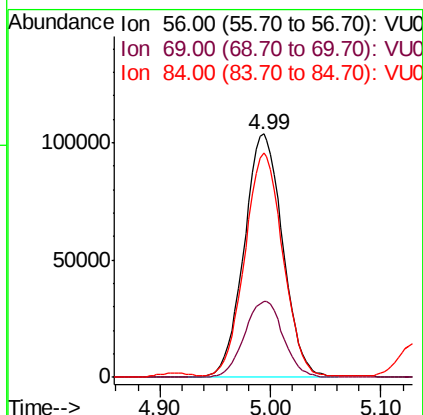
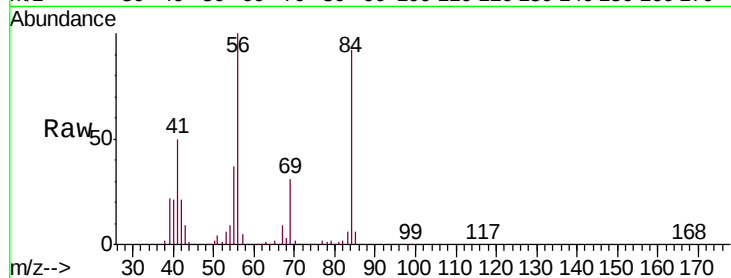




#29
Cyclohexane
Concen: 44.378 ug/L
RT: 4.99 min Scan# 1214
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

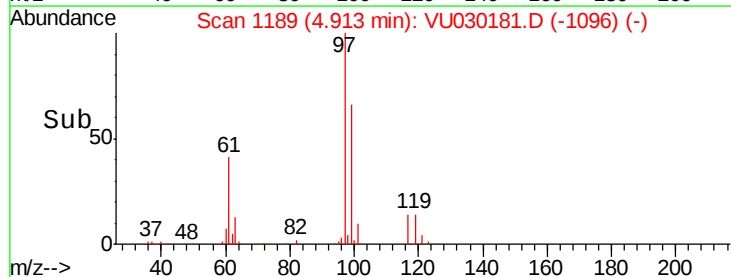
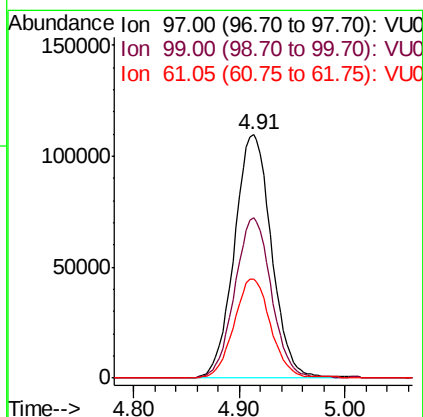
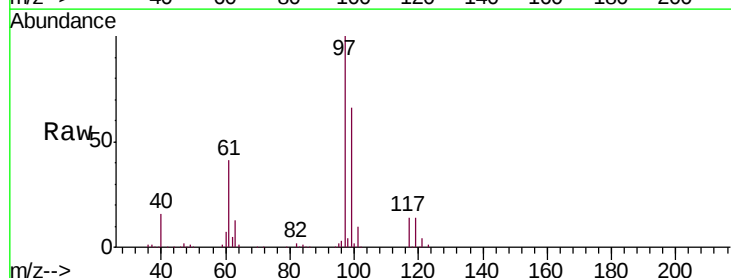
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

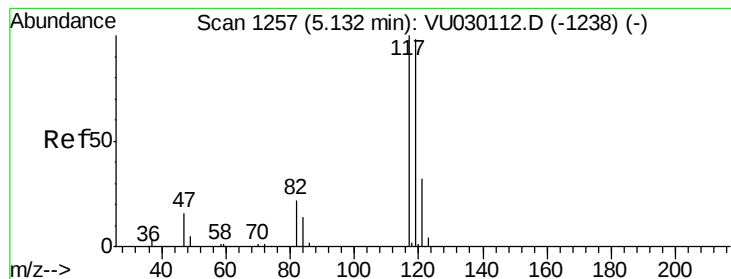
Tgt Ion: 56 Resp: 251293
Ion Ratio Lower Upper
56 100
69 31.5 25.3 37.9
84 90.6 73.5 110.3



#30
1,1,1-Trichloroethane
Concen: 47.819 ug/L
RT: 4.91 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

Tgt Ion: 97 Resp: 268016
Ion Ratio Lower Upper
97 100
99 65.0 52.2 78.2
61 40.2 32.2 48.4





#31

Carbon tetrachloride

Concen: 46.417 ug/L

RT: 5.13 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

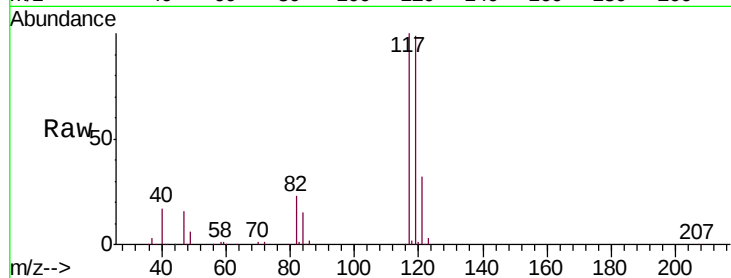
VSTD05044

Tgt Ion:117 Resp: 229728

Ion Ratio Lower Upper

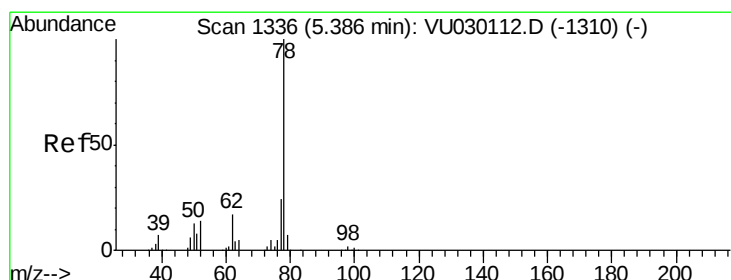
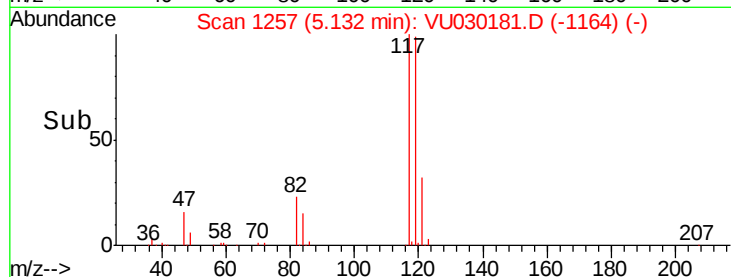
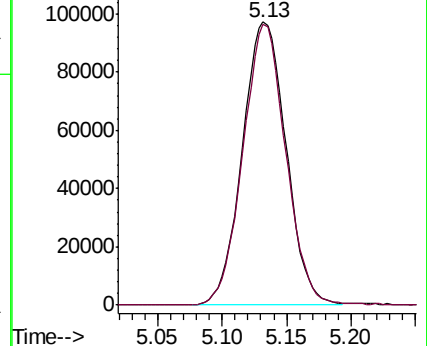
117 100

119 97.2 77.3 115.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 47.463 ug/L

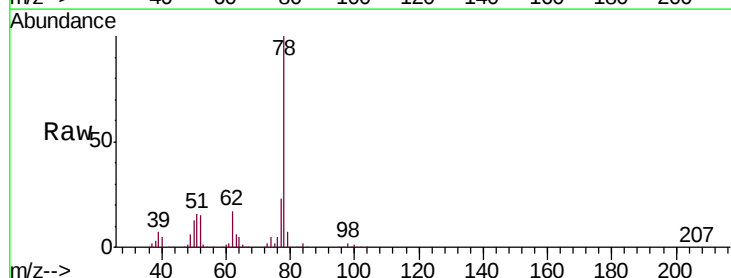
RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

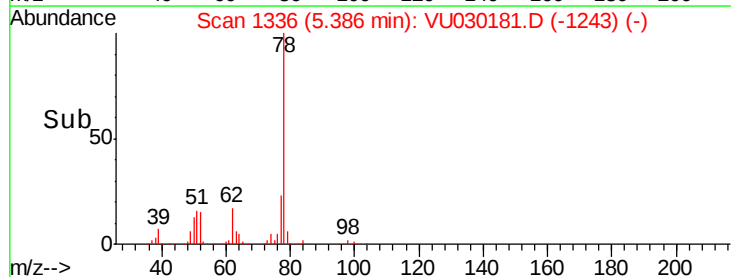
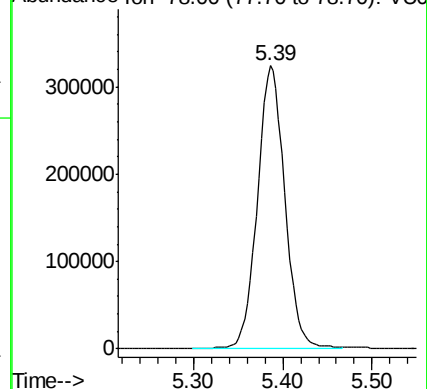
Lab File: VU030181.D

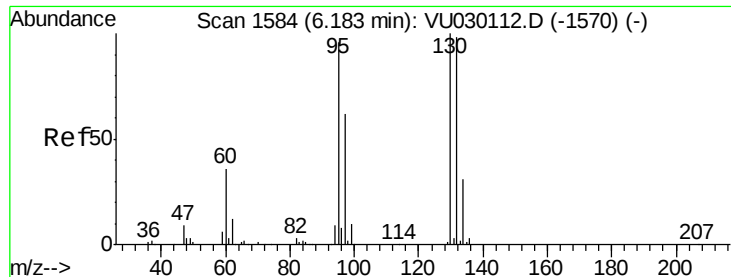
Acq: 18 Mar 2019 17:58

Tgt Ion: 78 Resp: 697300



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 46.177 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

Tgt Ion: 95 Resp: 177801

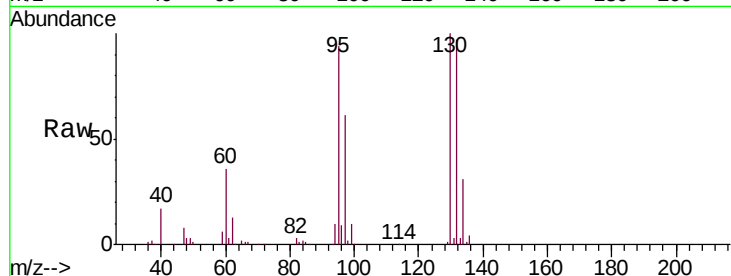
Ion Ratio Lower Upper

95 100

97 65.1 45.5 84.5

132 104.1 71.5 132.7

130 106.9 73.5 136.5

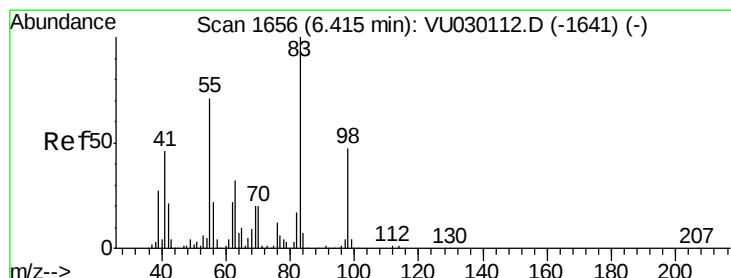
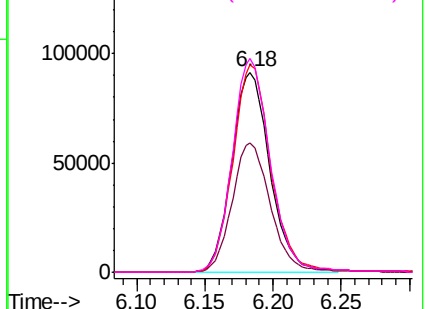
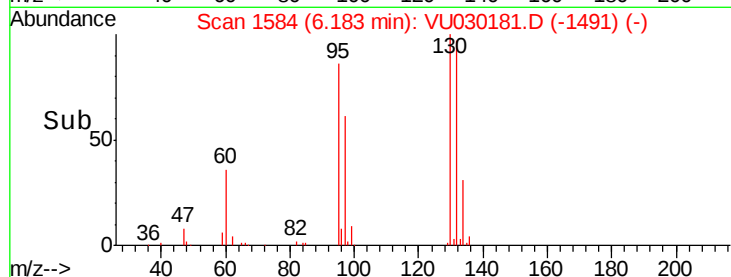


Abundance Ion 95.00 (94.70 to 95.70): VU030181.D (-1570) (-)

Ion 97.00 (96.70 to 97.70): VU030181.D (-1570) (-)

Ion 132.00 (131.70 to 132.70): VU030181.D (-1570) (-)

Ion 130.00 (129.70 to 130.70): VU030181.D (-1570) (-)



#35

Methylcyclohexane

Concen: 43.961 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

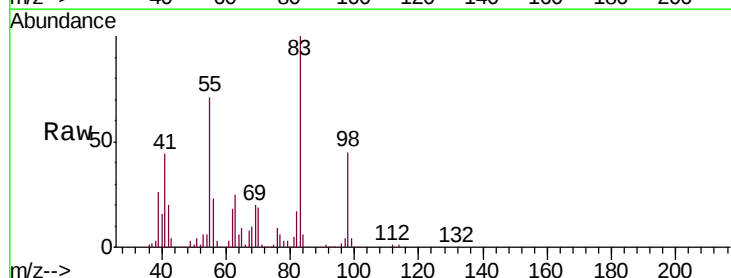
Tgt Ion: 83 Resp: 274487

Ion Ratio Lower Upper

83 100

55 72.3 56.6 84.8

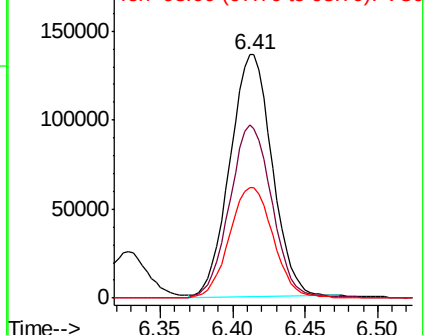
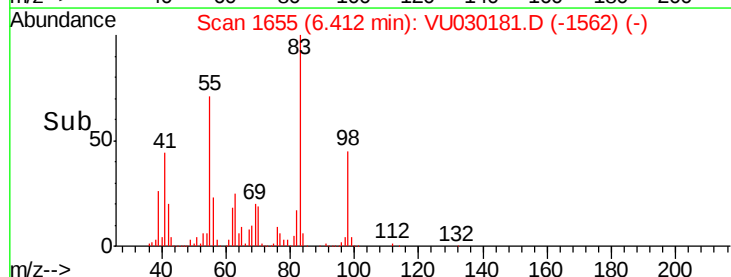
98 47.6 37.8 56.6

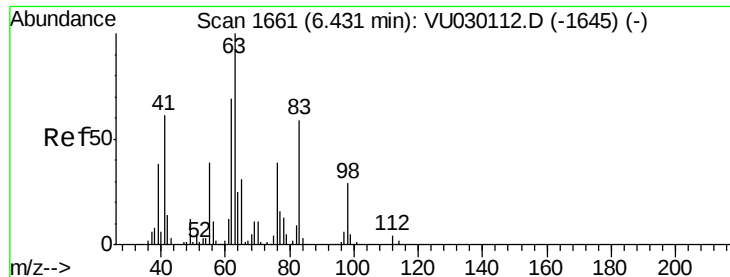


Abundance Ion 83.00 (82.70 to 83.70): VU030181.D (-1562) (-)

Ion 55.00 (54.70 to 55.70): VU030181.D (-1562) (-)

Ion 98.00 (97.70 to 98.70): VU030181.D (-1562) (-)





#37

1,2-Dichloropropane

Concen: 48.089 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

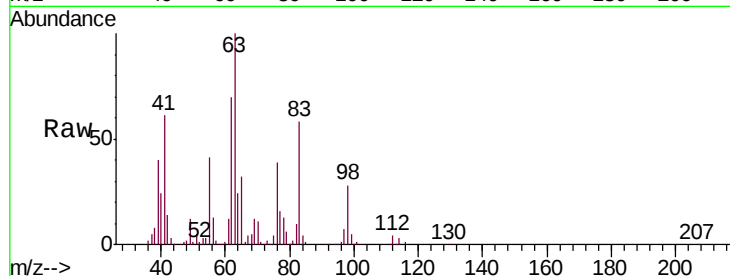
VSTD05044

Tgt Ion: 63 Resp: 185837

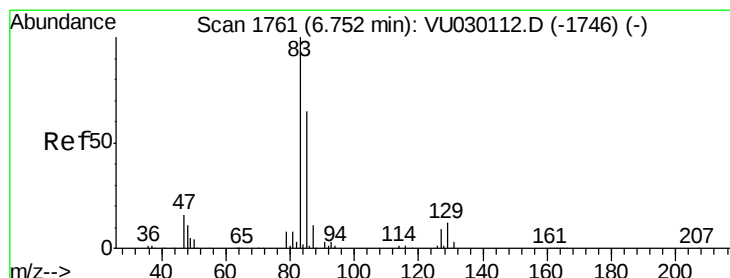
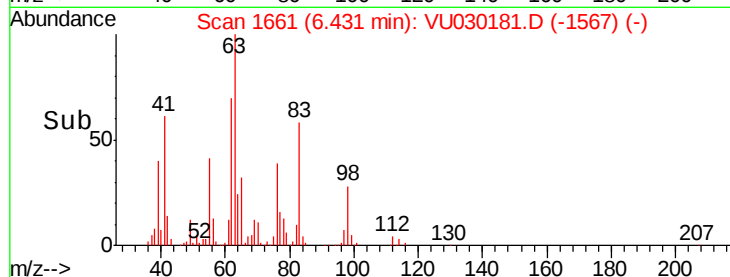
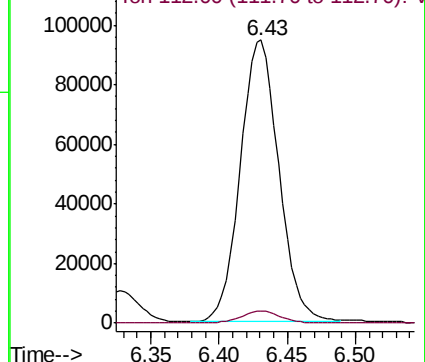
Ion Ratio Lower Upper

63 100

112 4.4 3.4 5.2



Abundance Ion 63.00 (62.70 to 63.70): VU030181.D (-1645) (-)



#38

Bromodichloromethane

Concen: 49.920 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

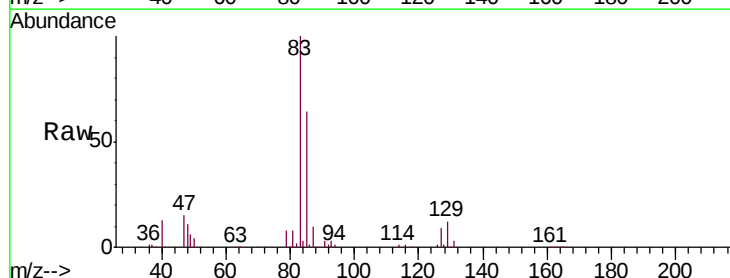
Tgt Ion: 83 Resp: 239890

Ion Ratio Lower Upper

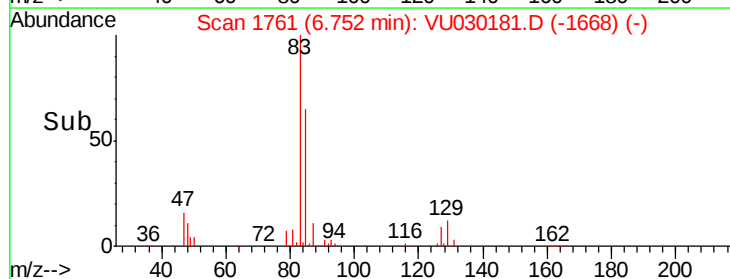
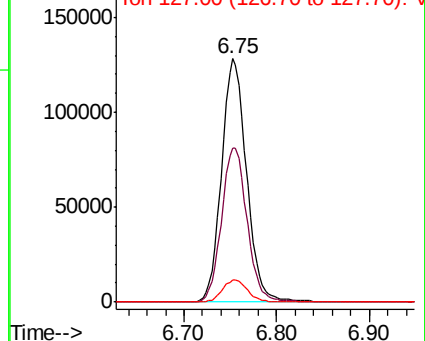
83 100

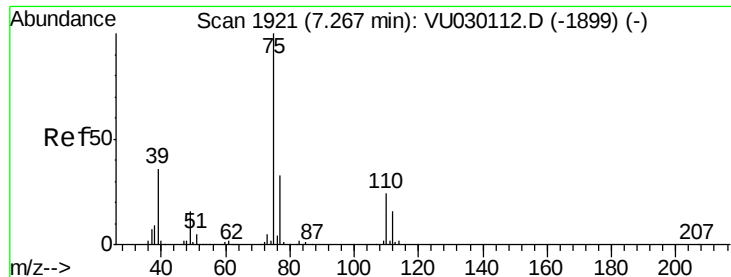
85 63.5 45.7 84.9

127 9.0 7.7 11.5



Abundance Ion 83.00 (82.70 to 83.70): VU030181.D (-1746) (-)

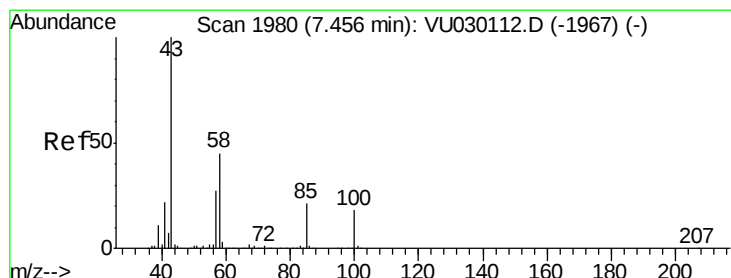
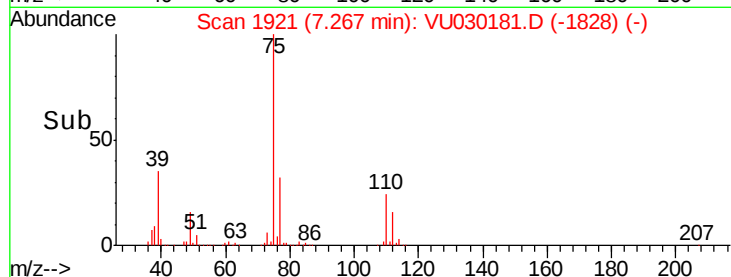
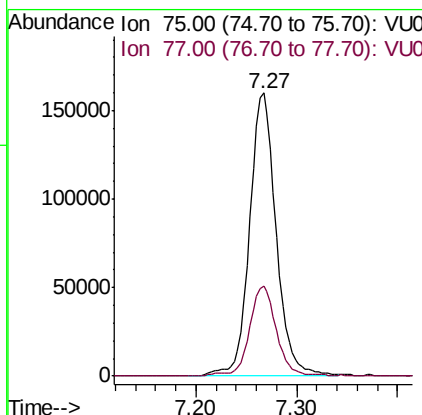
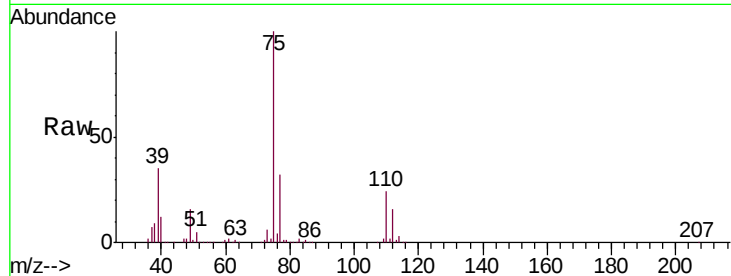




#39
 cis-1,3-Dichloropropene
 Concen: 48.277 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

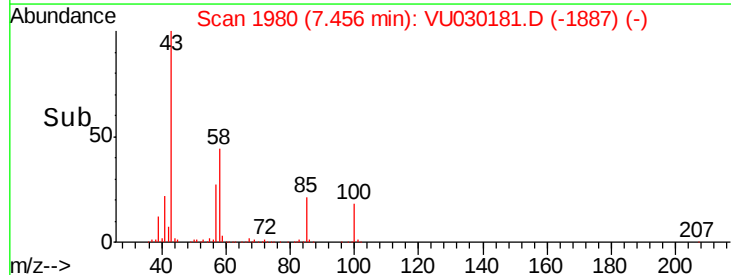
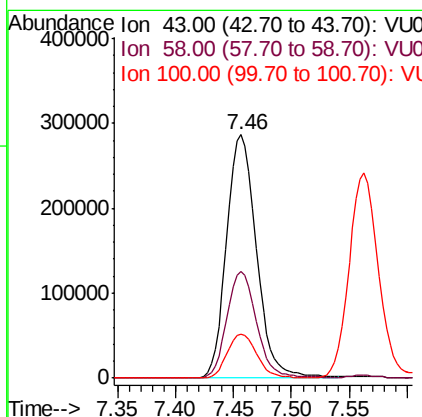
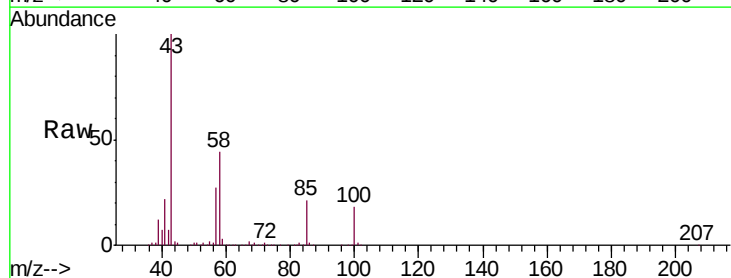
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD05044

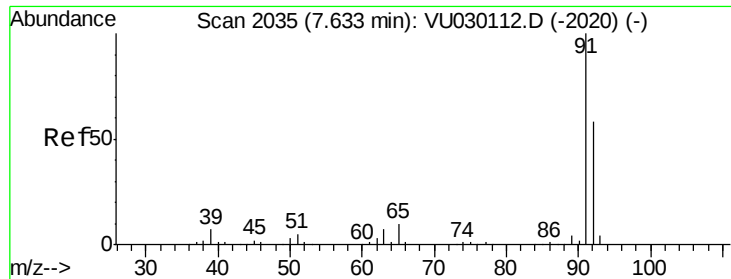
Tgt Ion: 75 Resp: 290323
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.2 41.2



#40
 4-Methyl-2-pentanone
 Concen: 98.153 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

Tgt Ion: 43 Resp: 512149
 Ion Ratio Lower Upper
 43 100
 58 43.4 35.1 52.7
 100 17.9 14.4 21.6





#42

Toluene

Concen: 47.930 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

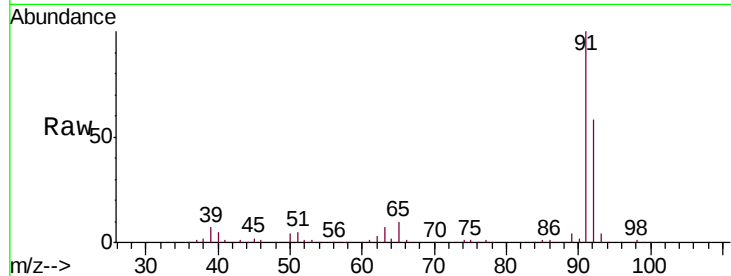
VSTD05044

Tgt Ion: 91 Resp: 765591

Ion Ratio Lower Upper

91 100

92 57.9 40.6 75.4



Abundance Ion 91.00 (90.70 to 91.70): VU030181.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU030181.D (-2020) (-)

7.63

400000

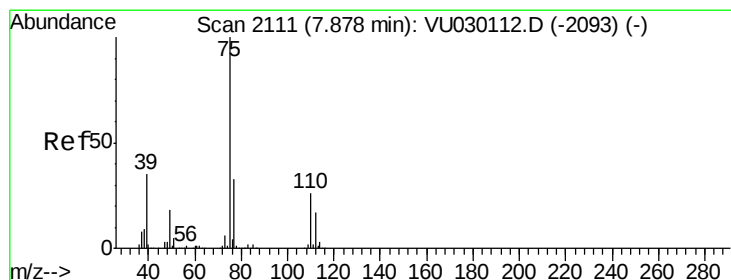
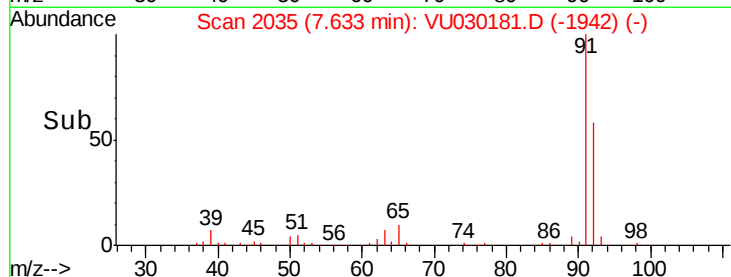
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#44

trans-1,3-Dichloropropene

Concen: 49.511 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VU030181.D

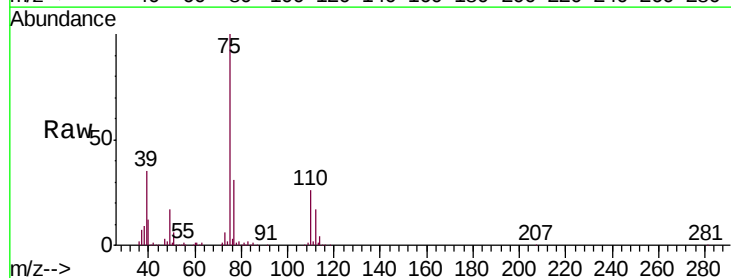
Acq: 18 Mar 2019 17:58

Tgt Ion: 75 Resp: 271861

Ion Ratio Lower Upper

75 100

77 31.5 21.9 40.7



Abundance Ion 75.00 (74.70 to 75.70): VU030181.D (-2093) (-)

Ion 77.00 (76.70 to 77.70): VU030181.D (-2093) (-)

7.87

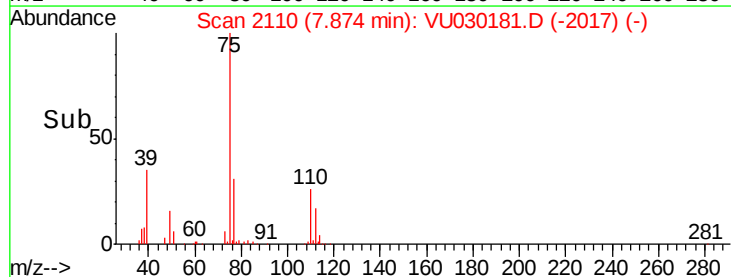
150000

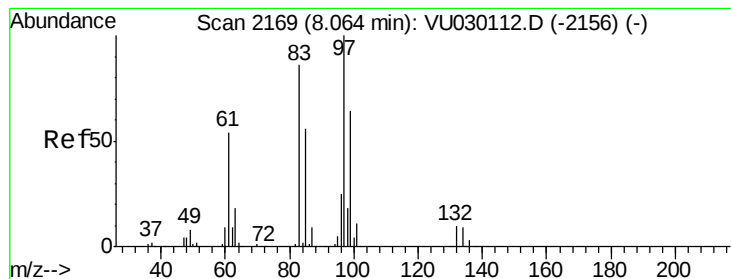
100000

50000

0

Time--> 7.80 7.90 8.00





#45

1,1,2-Trichloroethane

Concen: 49.344 ug/L

RT: 8.06 min Scan# 2169

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

Tgt Ion: 97 Resp: 190697

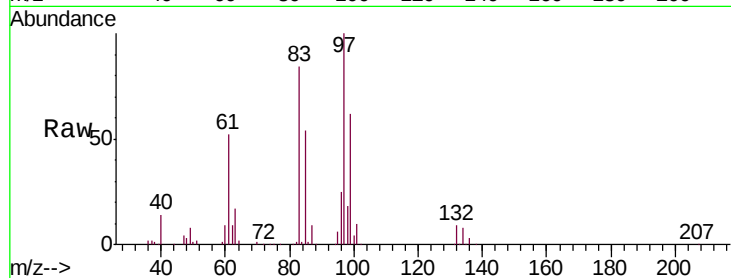
Ion Ratio Lower Upper

97 100

99 61.8 44.7 82.9

83 84.3 58.6 108.8

85 54.2 38.1 70.7

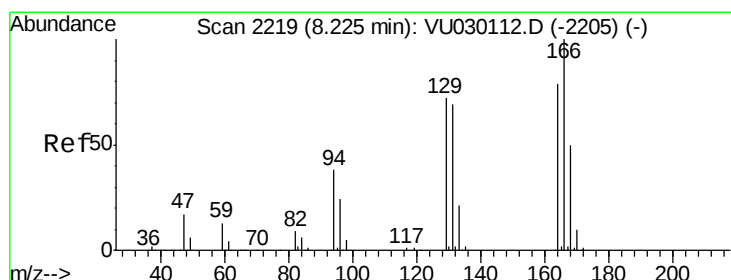
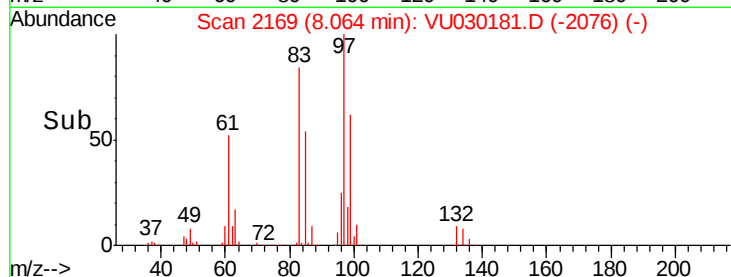
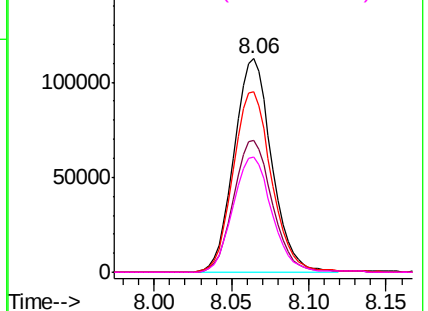


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 45.455 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Tgt Ion: 164 Resp: 153168

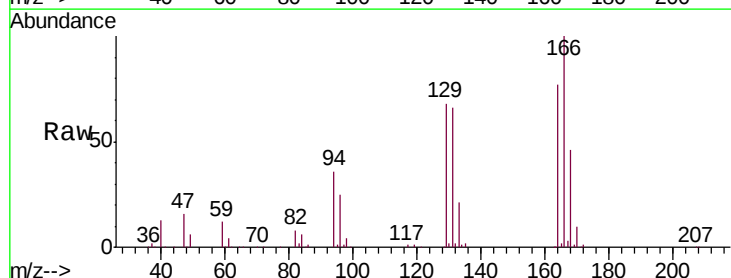
Ion Ratio Lower Upper

164 100

129 88.6 63.3 117.7

131 86.6 62.0 115.2

166 130.6 90.5 168.1

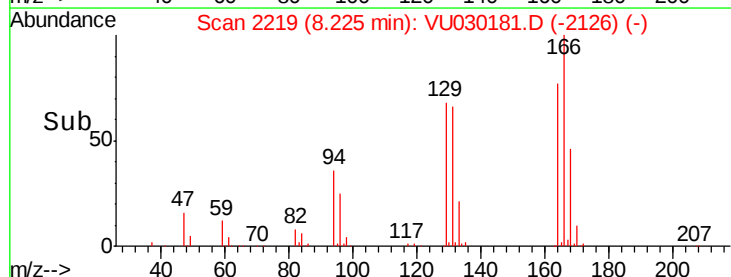
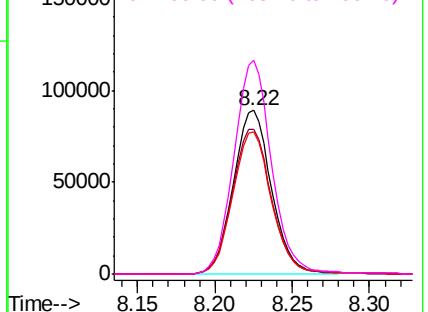


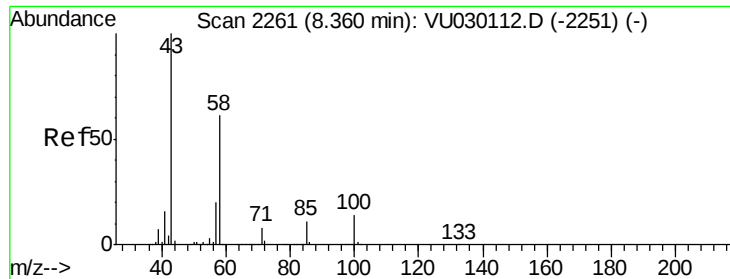
Abundance Ion 164.00 (163.70 to 164.70): V

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

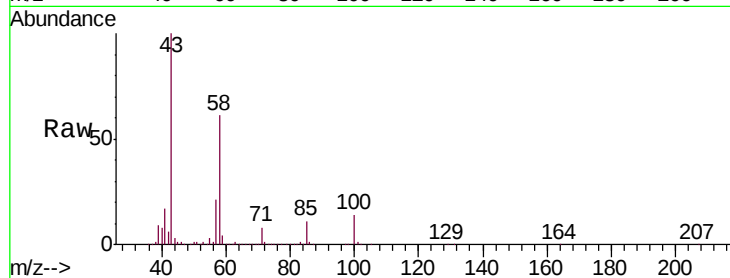




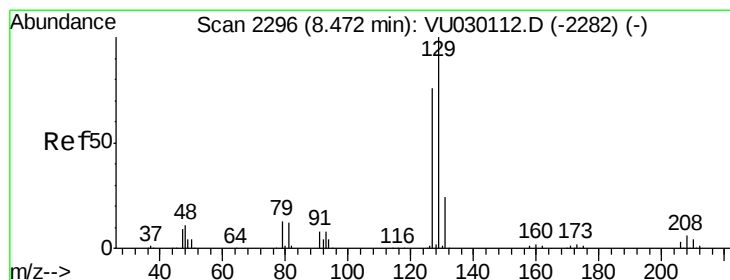
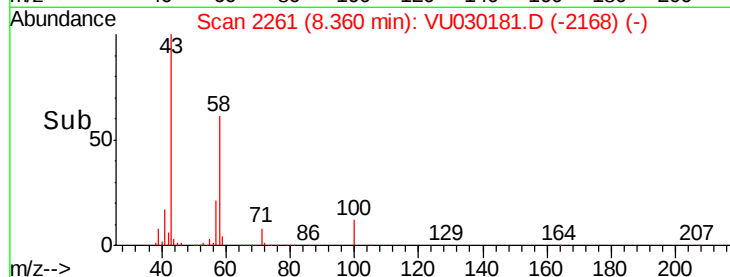
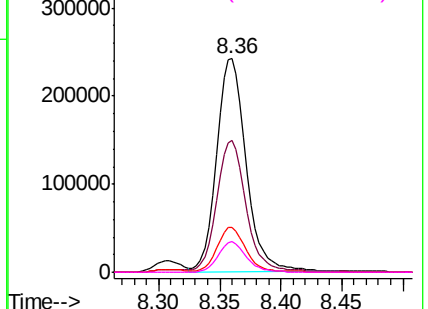
#48
2-Hexanone
Concen: 92.514 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

Tgt Ion:	43	Resp:	411817
Ion	Ratio	Lower	Upper
43	100		
58	62.0	48.6	72.8
57	20.5	16.1	24.1
100	13.6	11.6	17.4

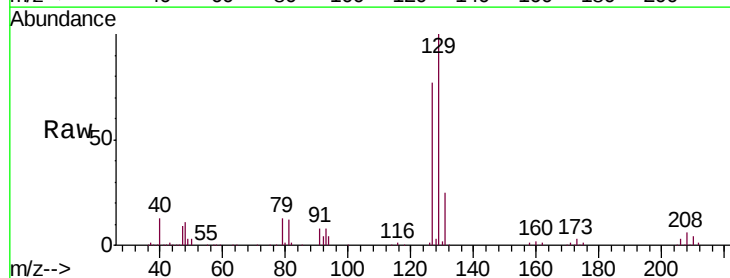


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

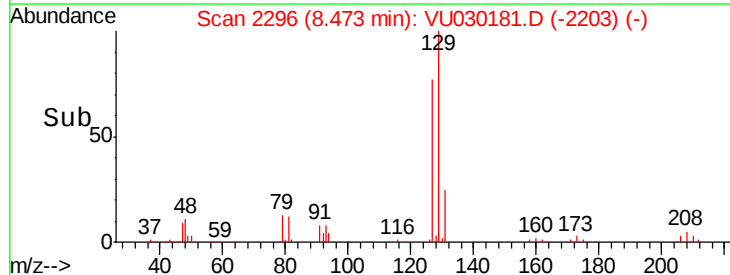
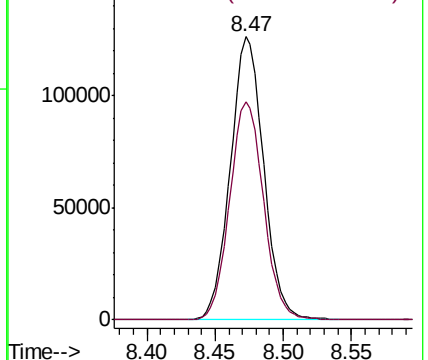


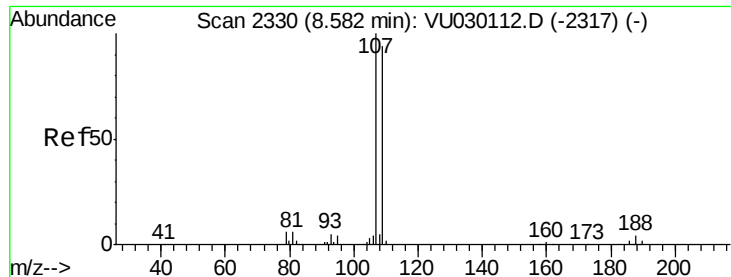
#49
Dibromochloromethane
Concen: 49.726 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

Tgt Ion:	129	Resp:	214713
Ion	Ratio	Lower	Upper
129	100		
127	77.2	55.2	102.4



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 48.337 ug/L

RT: 8.58 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

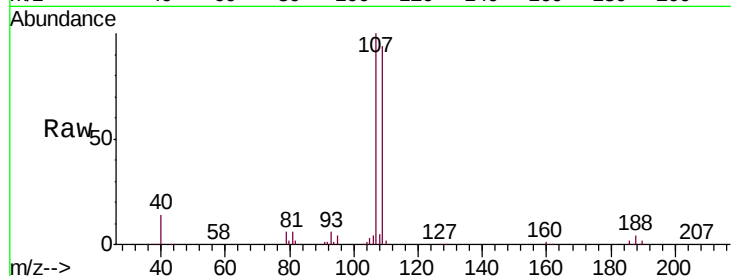
Tgt Ion:107 Resp: 205908

Ion Ratio Lower Upper

107 100

109 94.1 67.8 126.0

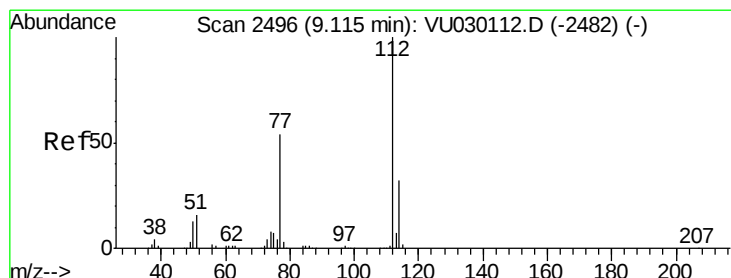
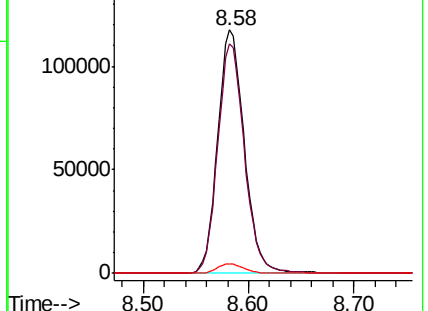
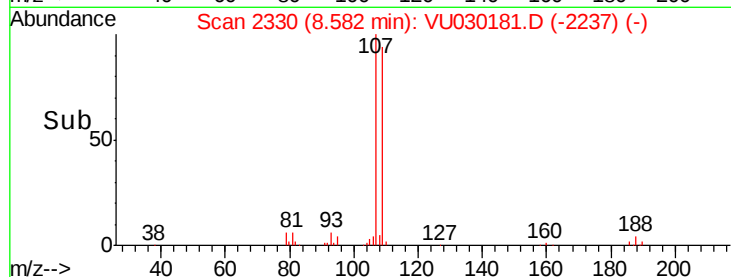
188 3.8 3.2 4.8



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: 47.325 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

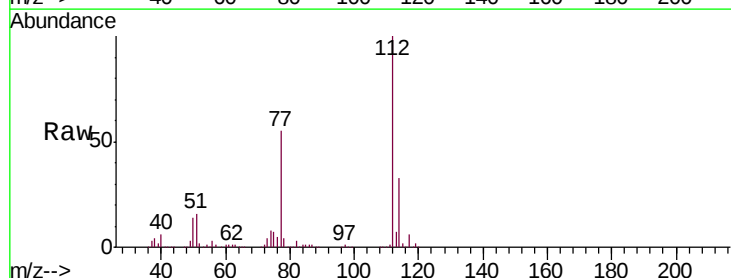
Tgt Ion:112 Resp: 509638

Ion Ratio Lower Upper

112 100

114 32.6 22.5 41.9

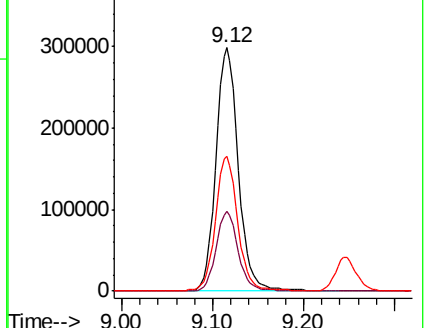
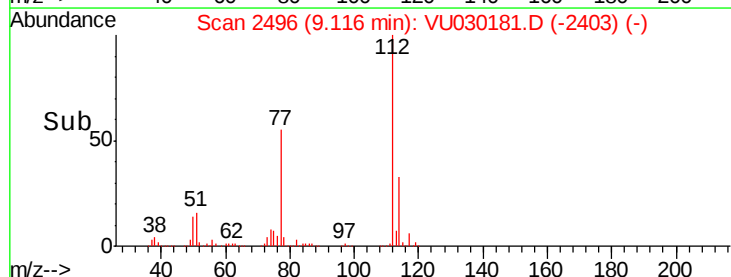
77 55.5 44.6 66.8

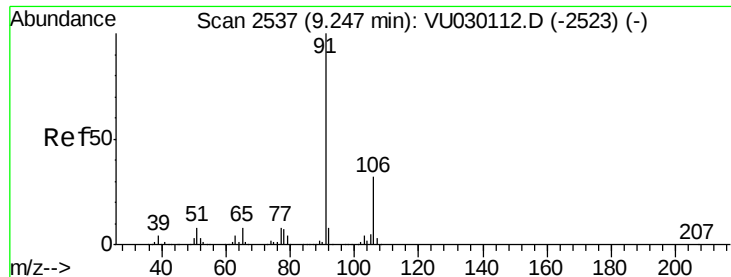


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU

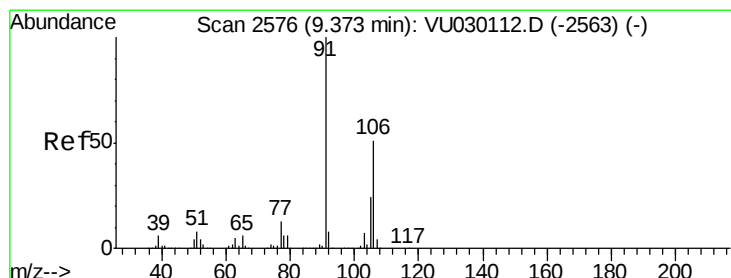
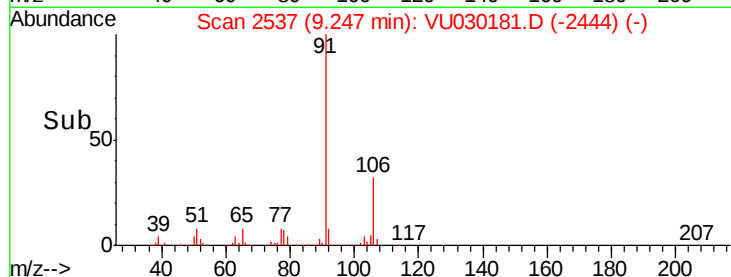
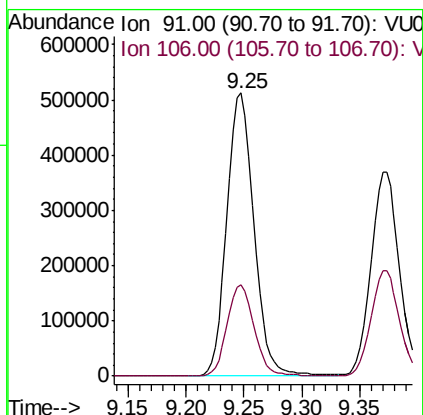
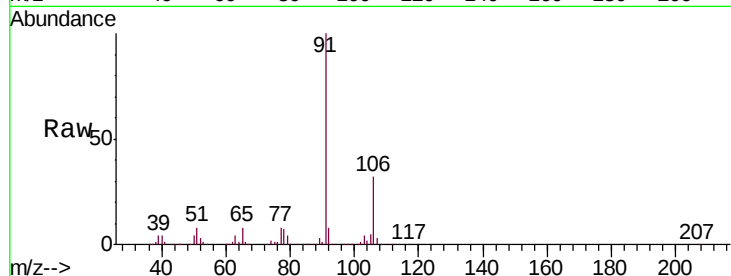




#52
Ethylbenzene
Concen: 47.337 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

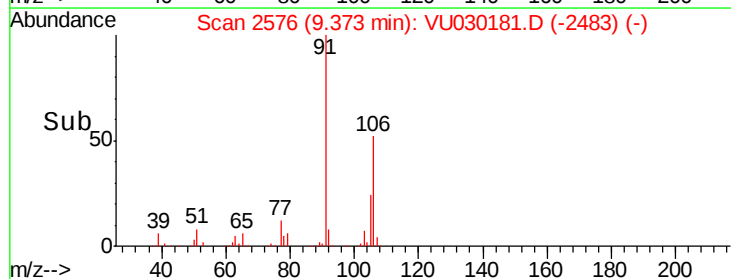
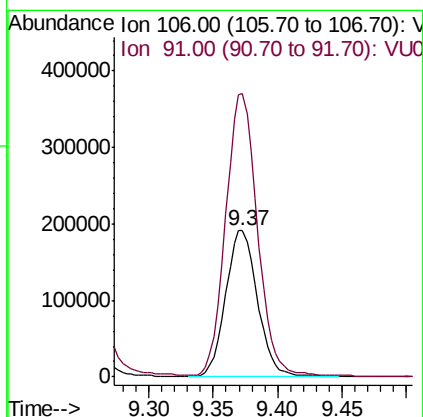
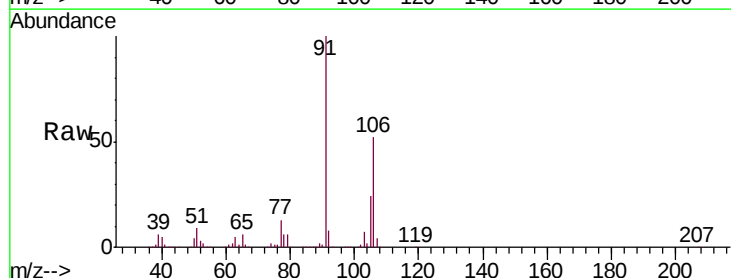
Instrument :
MSVOA_U
ClientSampleId :
VSTD05044

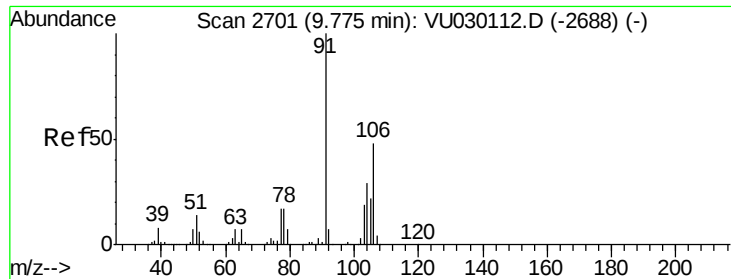
Tgt Ion: 91 Resp: 832396
Ion Ratio Lower Upper
91 100
106 32.4 22.5 41.9



#53
m,p-Xylene
Concen: 47.805 ug/L
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU030181.D
Acq: 18 Mar 2019 17:58

Tgt Ion: 106 Resp: 325233
Ion Ratio Lower Upper
106 100
91 193.8 135.1 250.9





#54

o-xylene

Concen: 47.736 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

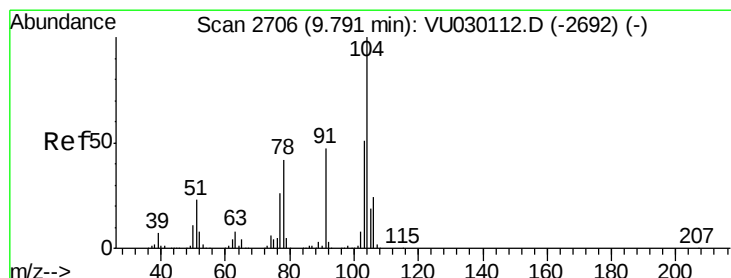
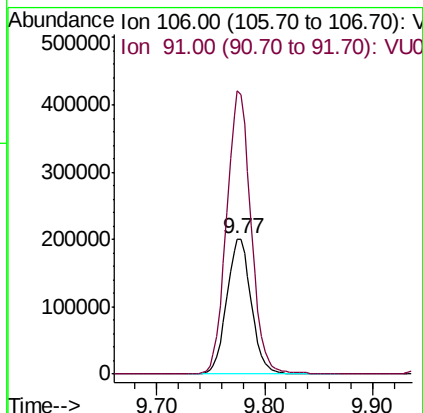
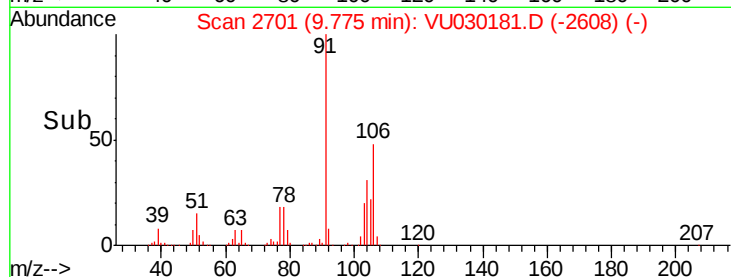
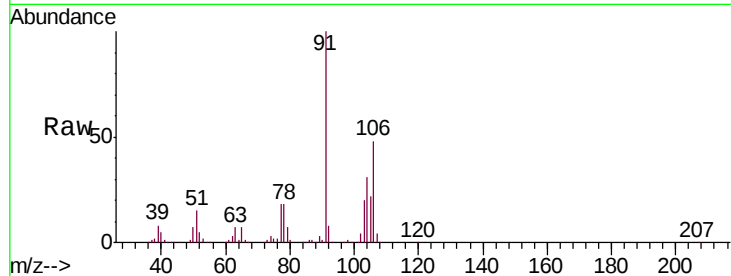
VSTD05044

Tgt Ion:106 Resp: 318991

Ion Ratio Lower Upper

106 100

91 209.9 144.5 268.4



#55

Styrene

Concen: 48.984 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU030181.D

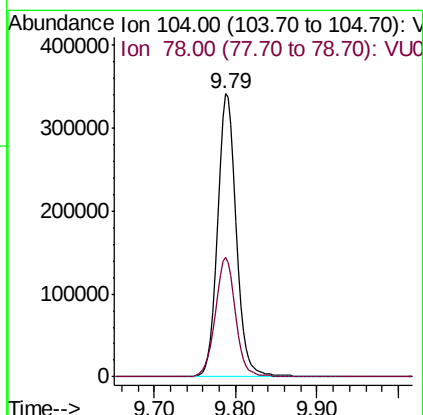
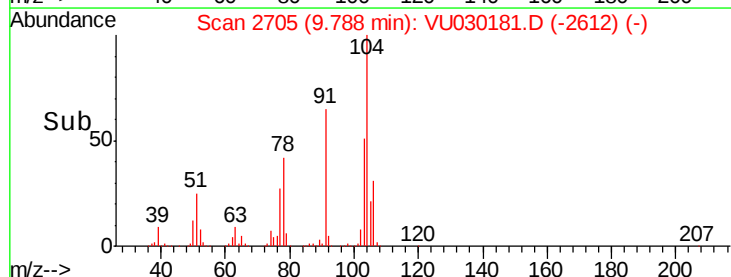
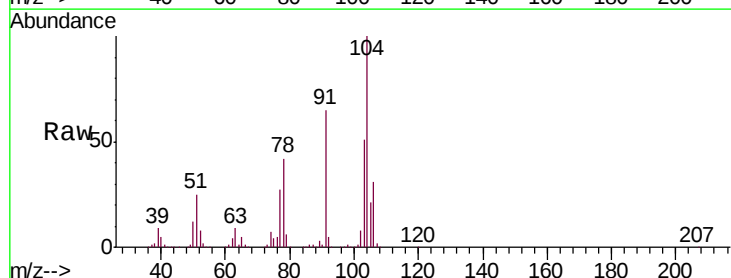
Acq: 18 Mar 2019 17:58

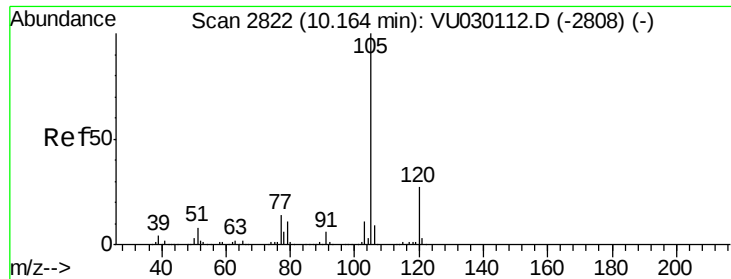
Tgt Ion:104 Resp: 557358

Ion Ratio Lower Upper

104 100

78 42.4 30.6 56.8





#56

Isopropylbenzene

Concen: 47.683 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

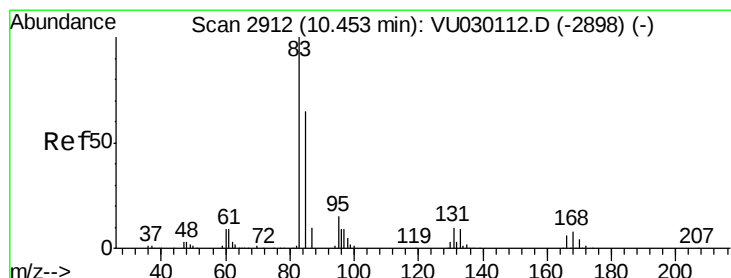
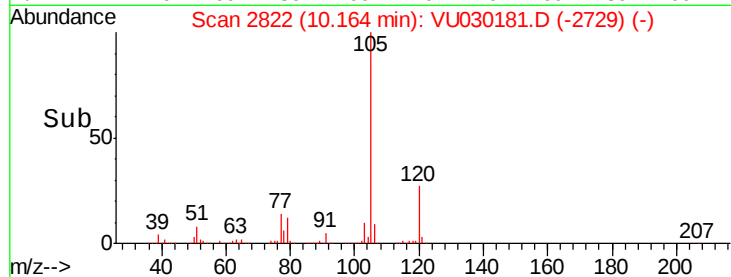
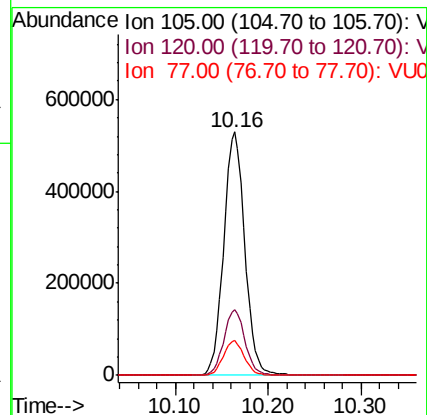
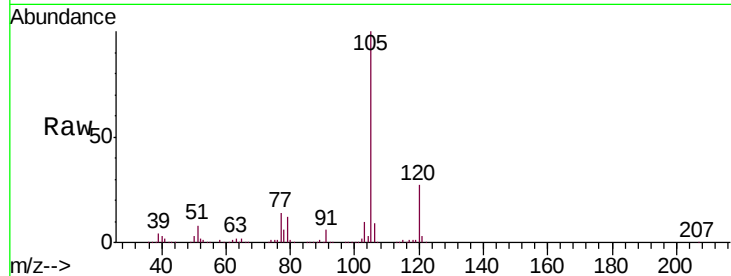
Tgt Ion: 105 Resp: 834191

Ion Ratio Lower Upper

105 100

120 27.0 21.7 32.5

77 14.3 11.1 16.7



#58

1,1,2,2-Tetrachloroethane

Concen: 50.562 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

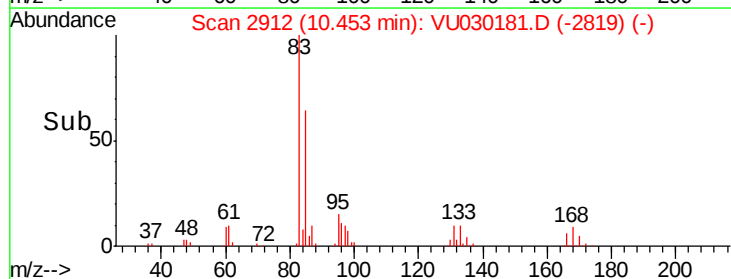
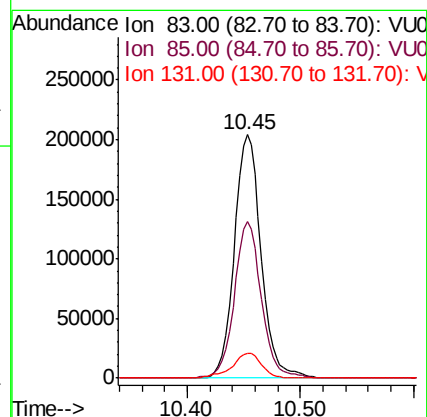
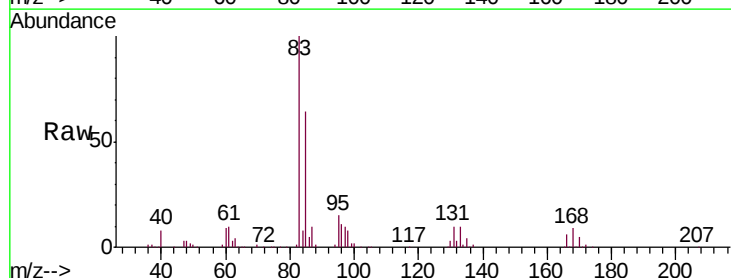
Tgt Ion: 83 Resp: 335385

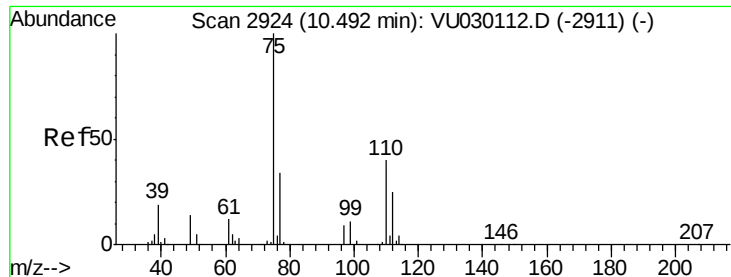
Ion Ratio Lower Upper

83 100

85 64.3 45.9 85.3

131 10.4 8.5 12.7

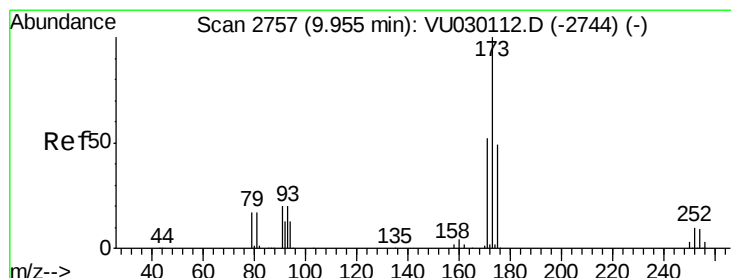
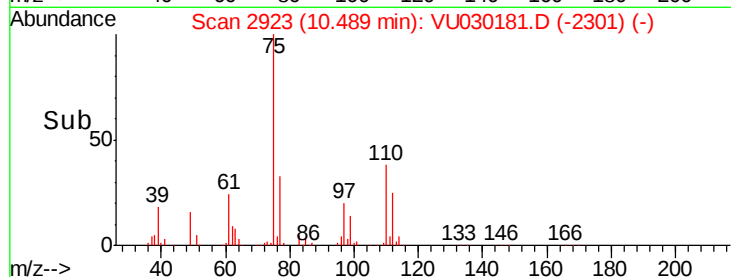
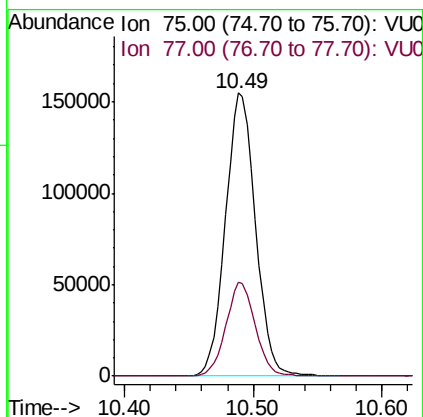
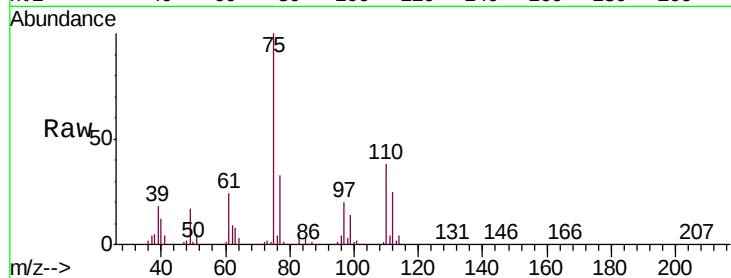




#59
 1,2,3-Trichloropropane
 Concen: 49.663 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

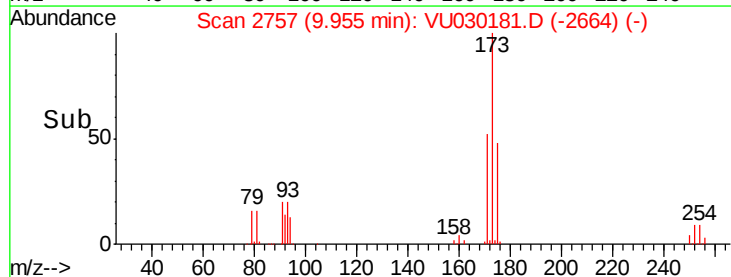
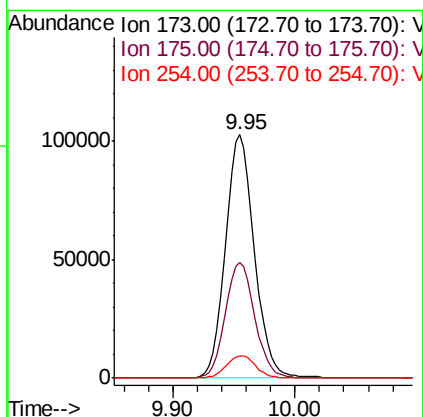
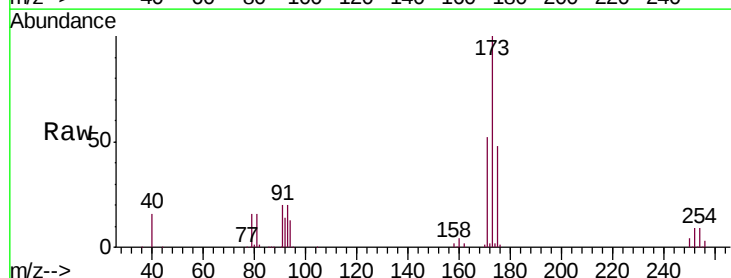
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

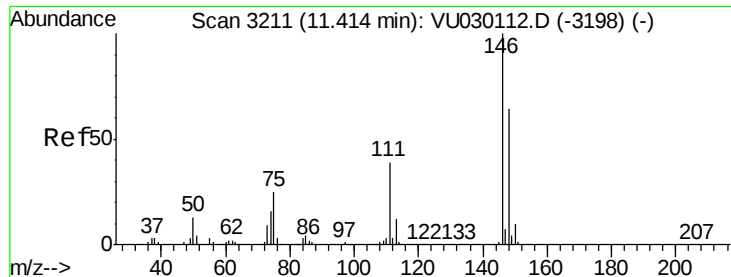
Tgt Ion: 75 Resp: 249942
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.8 38.8



#61
 Bromoform
 Concen: 51.178 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

Tgt Ion: 173 Resp: 170692
 Ion Ratio Lower Upper
 173 100
 175 48.4 39.0 58.6
 254 9.4 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 46.548 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

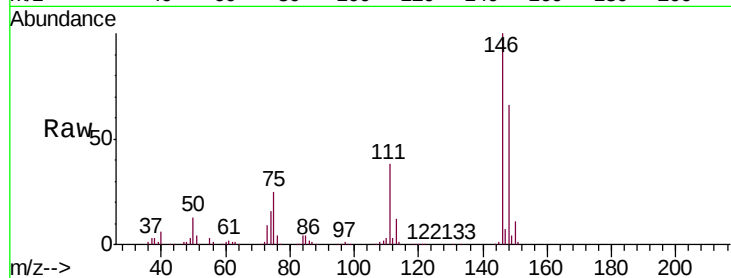
Tgt Ion:146 Resp: 402789

Ion Ratio Lower Upper

146 100

111 38.0 26.7 49.5

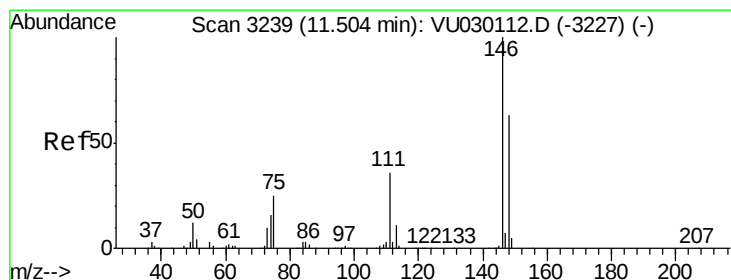
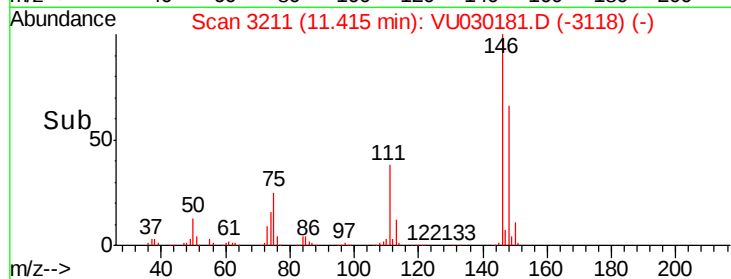
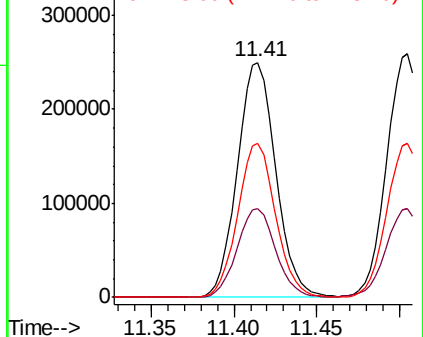
148 65.7 44.9 83.5



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: 47.217 ug/L

RT: 11.50 min Scan# 3239

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

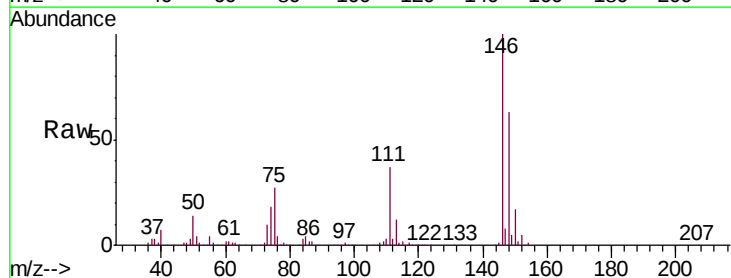
Tgt Ion:146 Resp: 415459

Ion Ratio Lower Upper

146 100

111 36.5 25.5 47.3

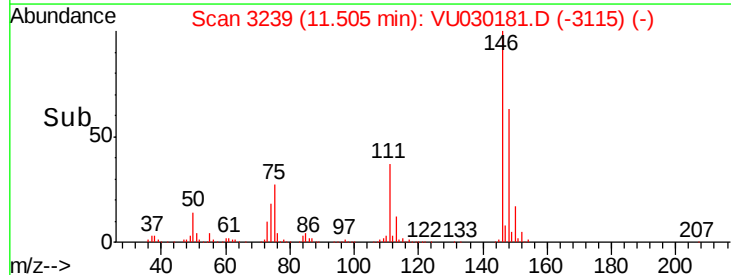
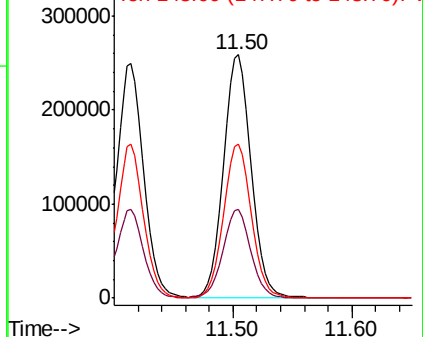
148 63.2 45.0 83.6

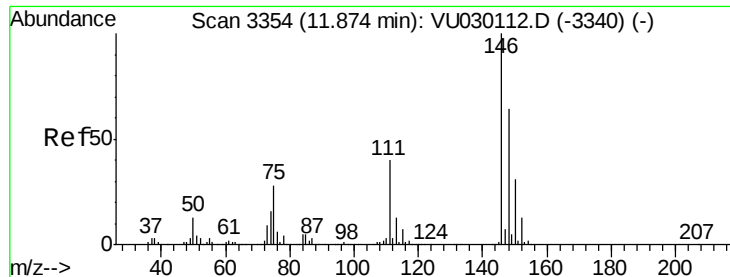


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

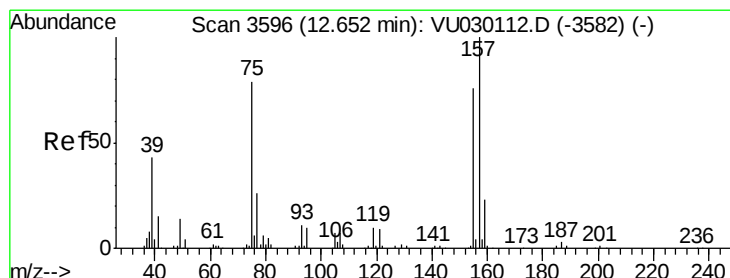
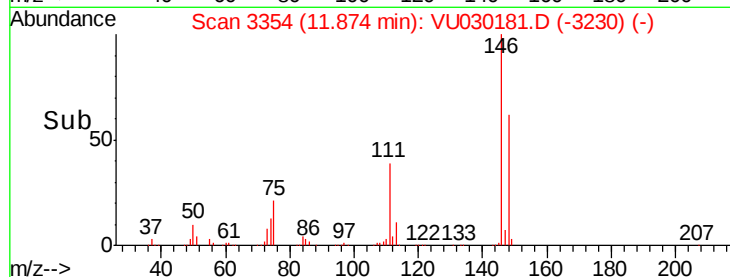
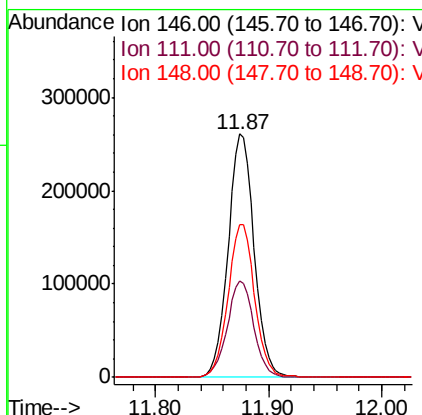
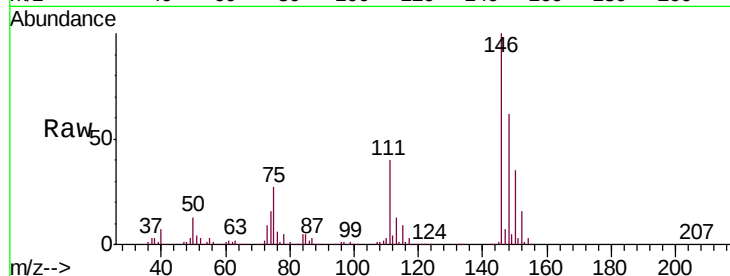




#65
 1,2-Dichlorobenzene
 Concen: 47.804 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

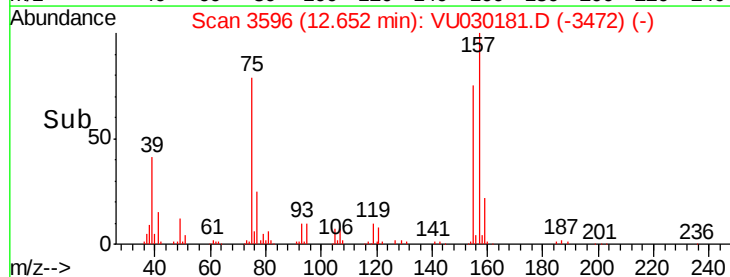
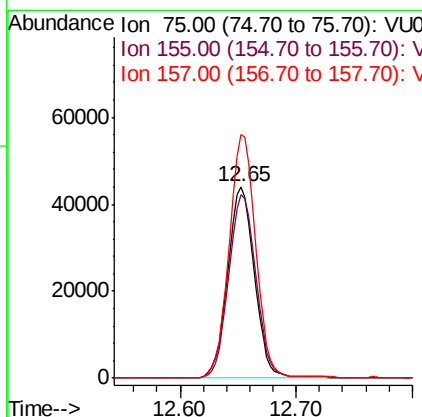
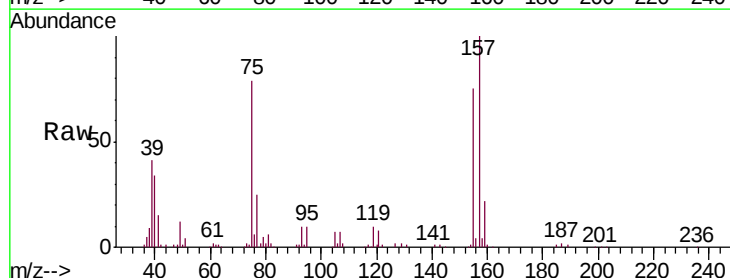
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

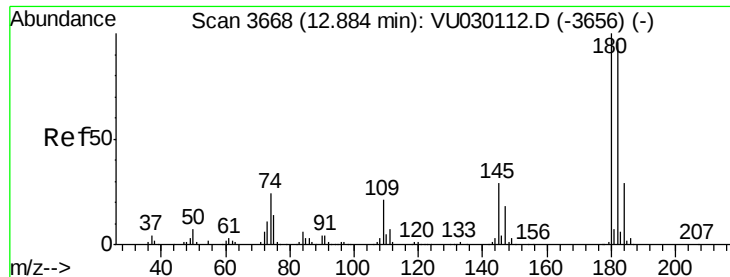
Tgt Ion: 146 Resp: 416382
 Ion Ratio Lower Upper
 146 100
 111 39.6 30.9 46.3
 148 62.5 51.2 76.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 49.509 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

Tgt Ion: 75 Resp: 70076
 Ion Ratio Lower Upper
 75 100
 155 95.6 80.9 121.3
 157 127.0 104.6 156.8

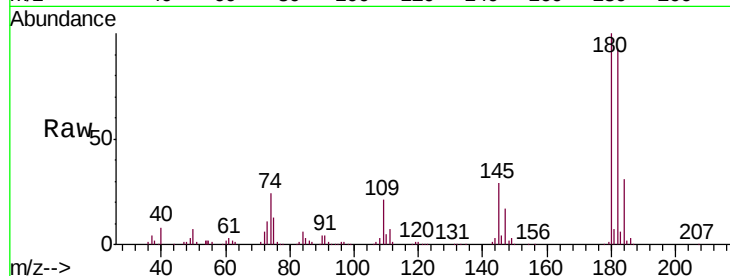




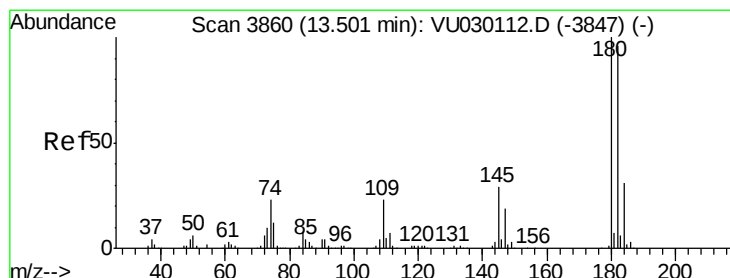
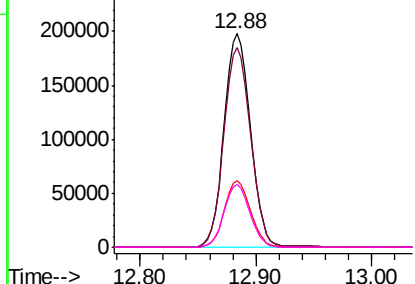
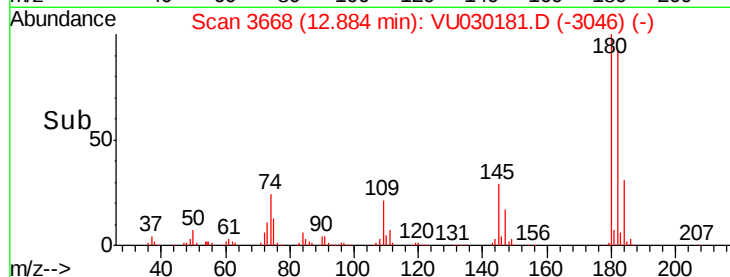
#67
 1,3,5-Trichlorobenzene
 Concen: 46.464 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05044

Tgt Ion:	180	Resp:	312069
Ion	Ratio	Lower	Upper
180	100		
182	94.4	76.3	114.5
184	30.6	24.7	37.1
145	28.8	22.3	33.5

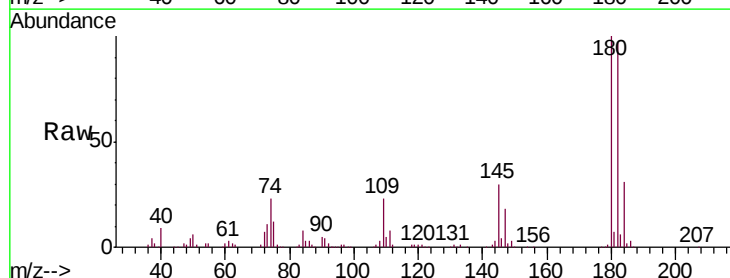


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

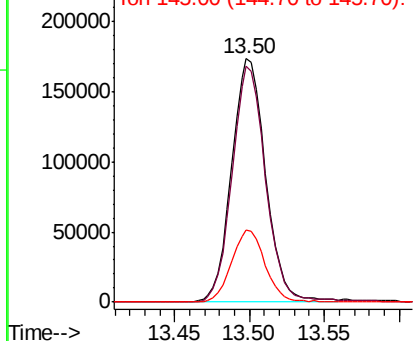
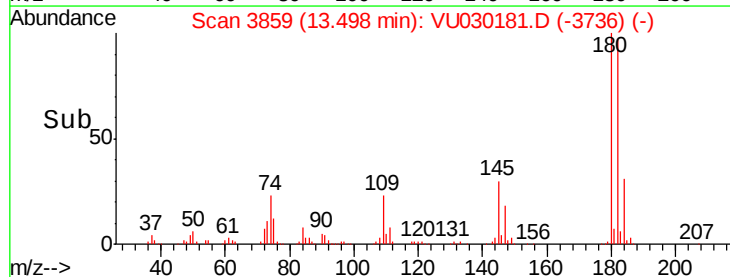


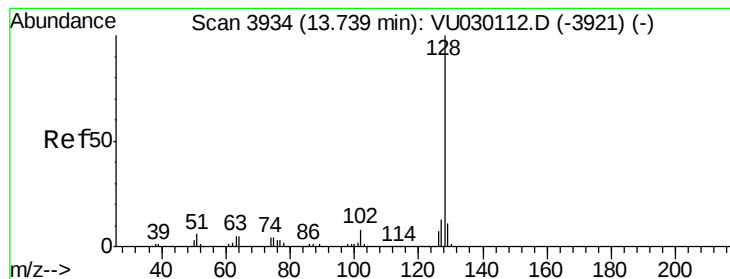
#68
 1,2,4-trichlorobenzene
 Concen: 44.823 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU030181.D
 Acq: 18 Mar 2019 17:58

Tgt Ion:	180	Resp:	275377
Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.1	114.1
145	29.0	23.0	34.4



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: 45.069 ug/L

RT: 13.74 min Scan# 3934

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

Instrument :

MSVOA_U

ClientSampleId :

VSTD05044

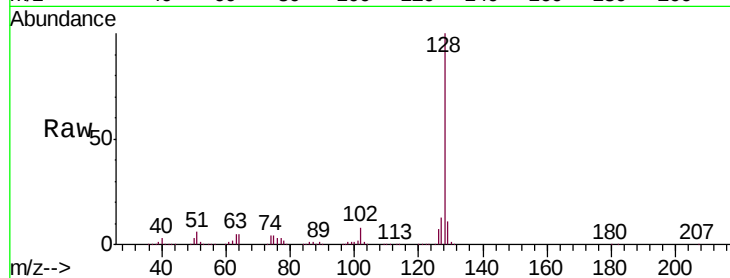
Tgt Ion:128 Resp: 899616

Ion Ratio Lower Upper

128 100

127 12.5 10.1 15.1

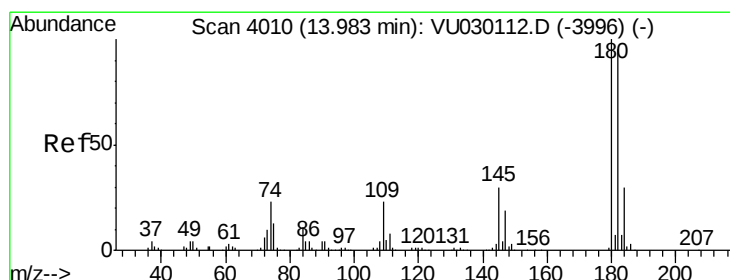
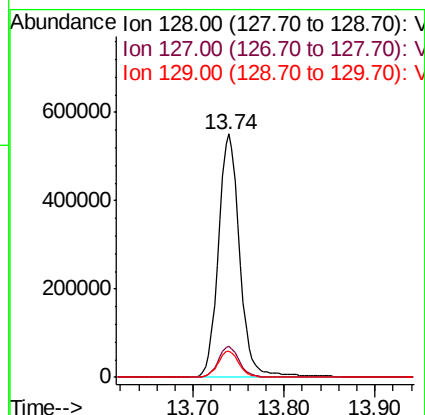
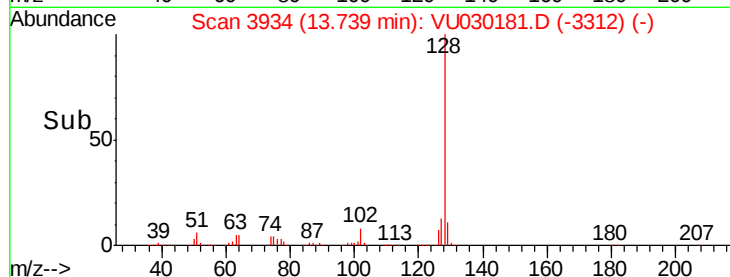
129 10.6 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 46.085 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VU030181.D

Acq: 18 Mar 2019 17:58

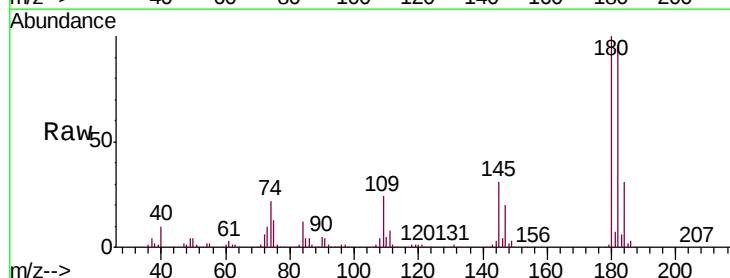
Tgt Ion:180 Resp: 294131

Ion Ratio Lower Upper

180 100

182 95.6 75.9 113.9

145 30.2 24.0 36.0



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

