

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121319\
 Data File : VU036193.D
 Acq On : 13 Dec 2019 13:22
 Operator : JC/MD
 Sample : VSTD00503
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

Quant Time: Dec 14 00:25:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Dec 14 00:22:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	274389	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	287642	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	153211	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	113430	4.21	ug/L	0.00
7) Chloroethane-d5	1.93	69	100937	4.25	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	166426	4.61	ug/L	0.00
20) 2-Butanone-d5	4.69	46	218356	49.20	ug/L	0.00
24) Chloroform-d	5.11	84	185501	4.66	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	93296	4.60	ug/L	0.00
32) Benzene-d6	5.77	84	349964	4.65	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	107961	4.62	ug/L	0.00
41) Toluene-d8	7.93	98	341507	4.92	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	46592	4.72	ug/L	0.00
46) 2-Hexanone-d5	8.67	63	177404	49.13	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	98979	4.72	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	134517	4.67	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	148243	4.888	ug/L 100
3) Chloromethane	1.54	50	178205	4.550	ug/L 100
5) Vinyl chloride	1.62	62	175574	4.852	ug/L 100
6) Bromomethane	1.87	94	88065	4.066	ug/L 100
8) Chloroethane	1.95	64	104138	4.723	ug/L 100
9) Trichlorofluoromethane	2.16	101	227478	5.111	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	105118	4.831	ug/L 100
12) 1,1-Dichloroethene	2.61	96	100666	4.901	ug/L 100
13) Acetone	2.68	43	171188	44.384	ug/L 100
14) Carbon disulfide	2.82	76	332636	4.890	ug/L 100
15) Methyl Acetate	3.00	43	40047	4.828	ug/L 100
16) Methylene chloride	3.08	84	120388	4.178	ug/L 100
17) Methyl tert-butyl Ether	3.41	73	209615	4.907	ug/L 100
18) trans-1,2-Dichloroethene	3.39	96	102941	4.827	ug/L 100
19) 1,1-Dichloroethane	3.92	63	194712	4.967	ug/L 100
21) 2-Butanone	4.77	43	255677	49.855	ug/L 100
22) cis-1,2-Dichloroethene	4.72	96	108380	4.944	ug/L 100
23) Bromochloromethane	5.02	128	54524	4.997	ug/L 100
25) Chloroform	5.14	83	203705	4.923	ug/L 100
27) 1,2-Dichloroethane	5.84	62	123474	5.070	ug/L 100
29) 1,1,1-Trichloroethane	5.36	97	172044	4.916	ug/L 100
30) Cyclohexane	5.43	56	146364	4.927	ug/L 100
31) Carbon tetrachloride	5.57	117	157367	5.033	ug/L 100
33) Benzene	5.82	78	443518	5.072	ug/L 100
34) Trichloroethene	6.58	95	113469	5.050	ug/L 100
35) Methylcyclohexane	6.80	83	161130	5.047	ug/L 100
37) 1,2-Dichloropropane	6.83	63	110018	4.900	ug/L 100
38) Bromodichloromethane	7.14	83	144476	5.006	ug/L 100
39) cis-1,3-Dichloropropene	7.64	75	151445	5.061	ug/L 100
40) 4-Methyl-2-pentanone	7.84	43	593931	51.898	ug/L 100

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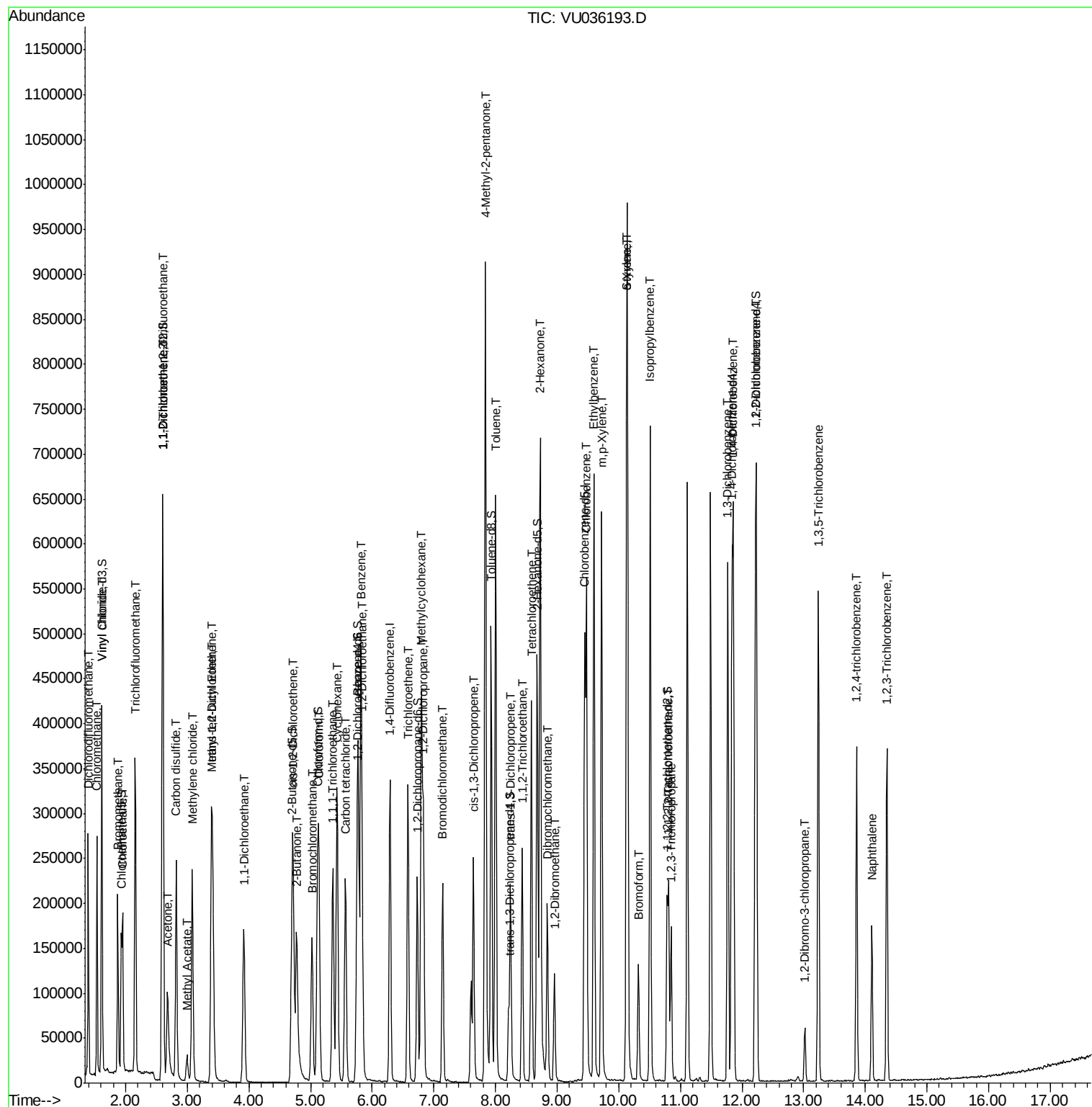
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	481976	5.218	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	130215	5.160	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	80739	4.877	ug/L	100
47) Tetrachloroethene	8.58	164	99184	5.061	ug/L	100
48) 2-Hexanone	8.73	43	461506	54.743	ug/L	100
49) Dibromochloromethane	8.84	129	104812	5.059	ug/L	100
50) 1,2-Dibromoethane	8.96	107	78956	5.072	ug/L	100
51) Chlorobenzene	9.47	112	304578	5.034	ug/L	100
52) Ethylbenzene	9.60	91	468824	5.172	ug/L	100
53) m,p-Xylene	9.72	106	189123	5.308	ug/L	100
54) o-Xylene	10.13	106	176913	5.204	ug/L	100
55) Styrene	10.14	104	319693	5.281	ug/L	100
56) Isopropylbenzene	10.51	105	455845	5.256	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	104860	5.011	ug/L	100
59) 1,2,3-Trichloropropane	10.85	75	74427	5.019	ug/L	100
61) Bromoform	10.32	173	61230	4.261	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	252643	5.048	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	249456	5.059	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	237375	4.943	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	15219	4.893	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	181105	5.445	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	119164	6.434	ug/L	100
69) Naphthalene	14.11	128	136856	6.756	ug/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	116954	6.741	ug/L	100

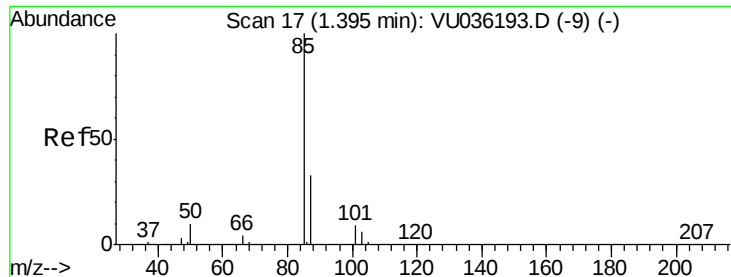
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.888 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

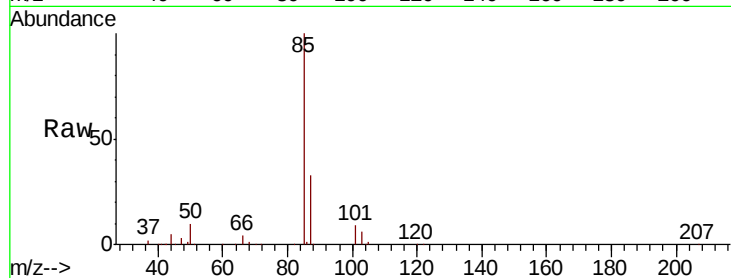
VSTD00503

Tot Ion: 85 Resp: 148243

Ion Ratio Lower Upper

85 100

87 33.1 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU036193.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036193.D (-9) (-)

1.39

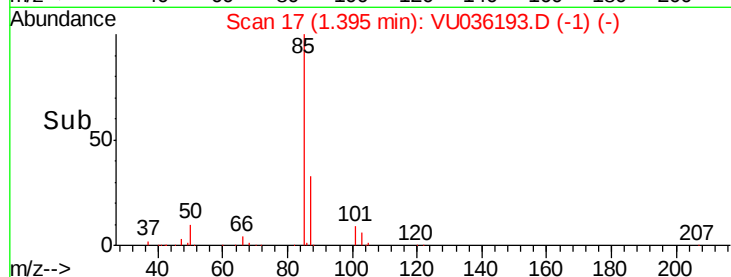
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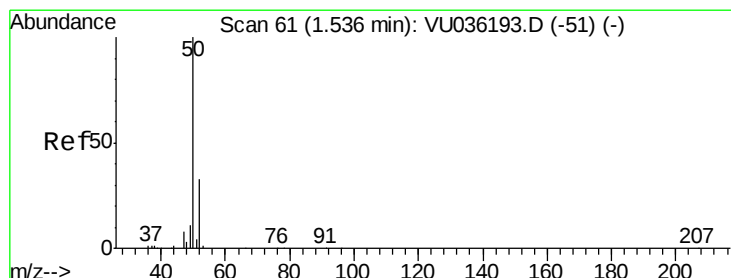
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 4.550 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036193.D

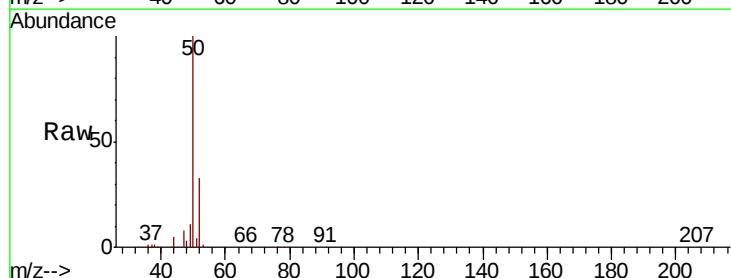
Acq: 13 Dec 2019 13:22

Tgt Ion: 50 Resp: 178205

Ion Ratio Lower Upper

50 100

52 33.0 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036193.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU036193.D (-51) (-)

1.54

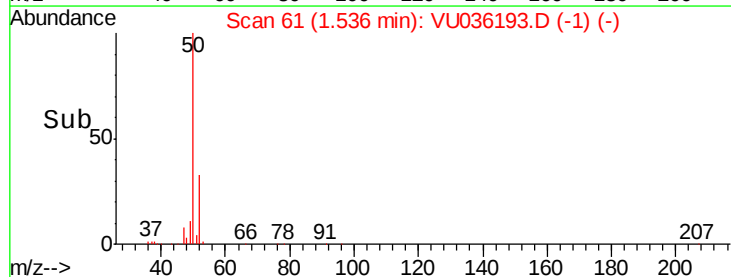
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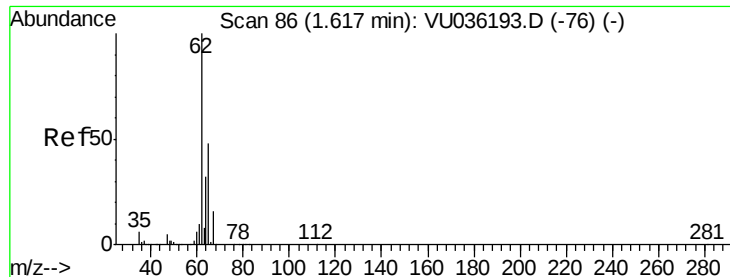
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.852 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

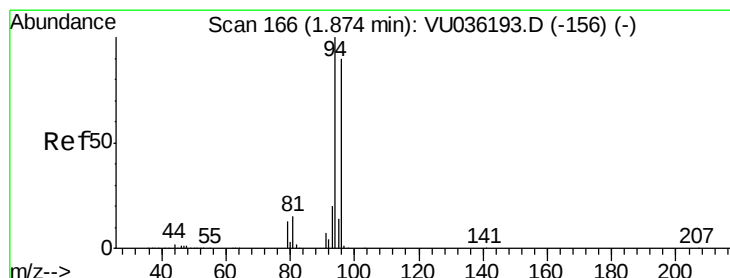
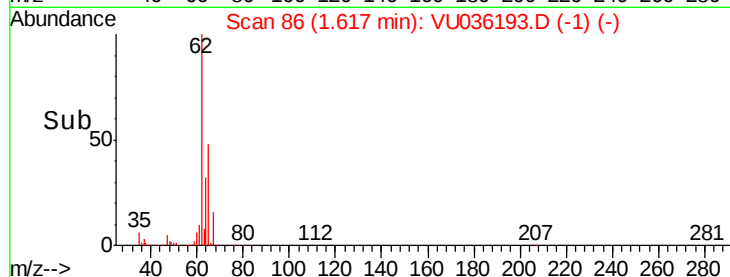
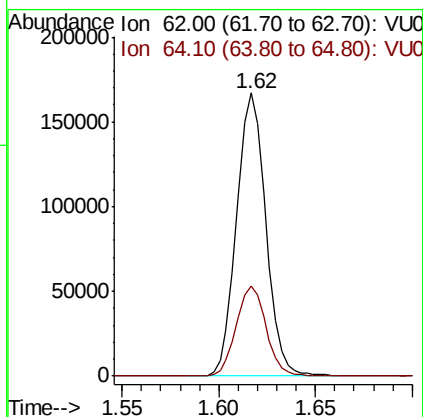
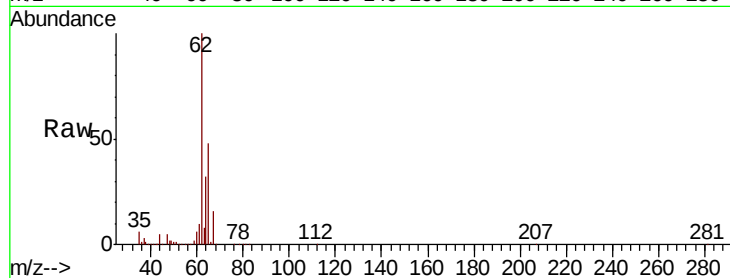
VSTD00503

Tot Ion: 62 Resp: 175574

Ion Ratio Lower Upper

62 100

64 32.0 22.4 41.6



#6

Bromomethane

Concen: 4.066 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036193.D

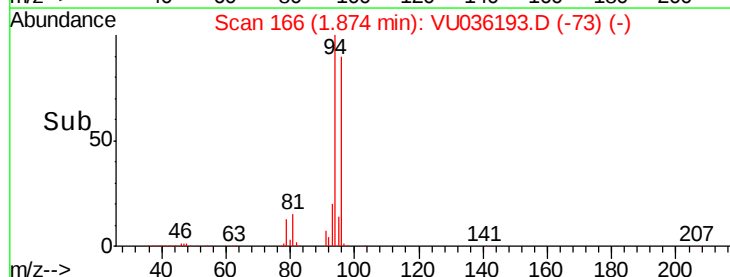
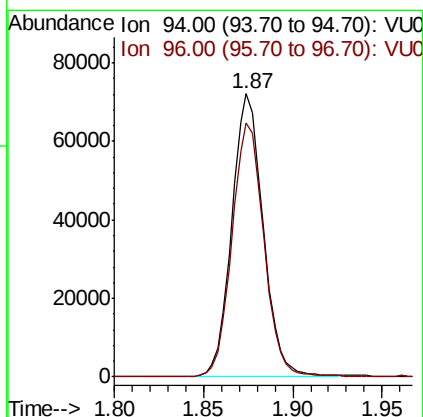
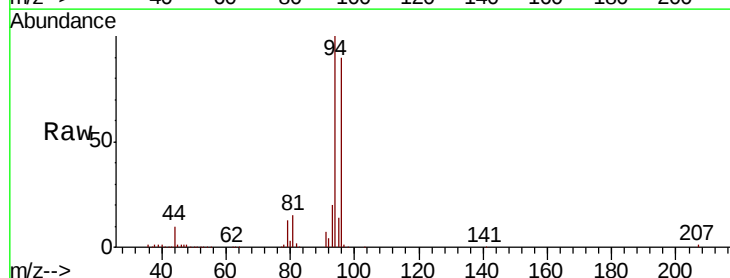
Acq: 13 Dec 2019 13:22

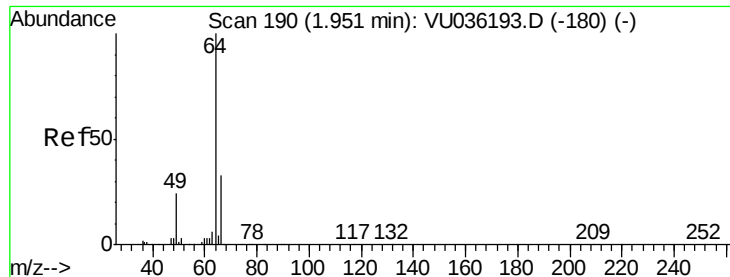
Tgt Ion: 94 Resp: 88065

Ion Ratio Lower Upper

94 100

96 89.9 62.9 116.9

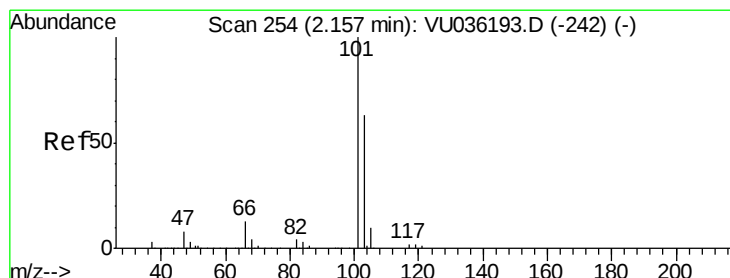
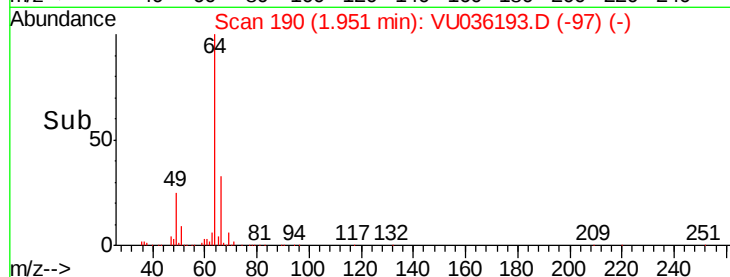
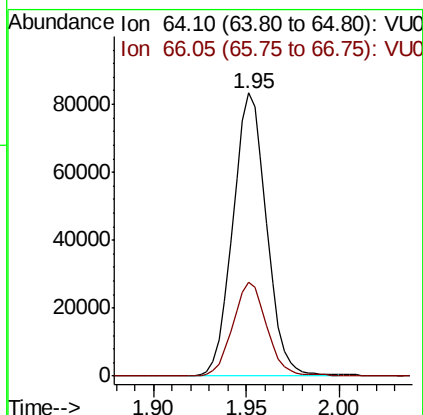
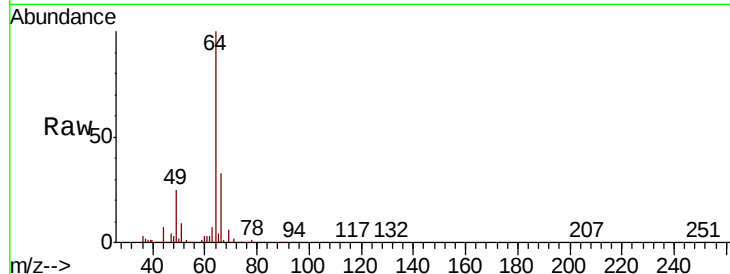




#8
Chloroethane
Concen: 4.723 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

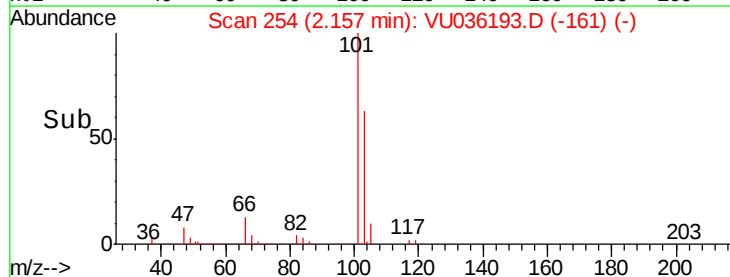
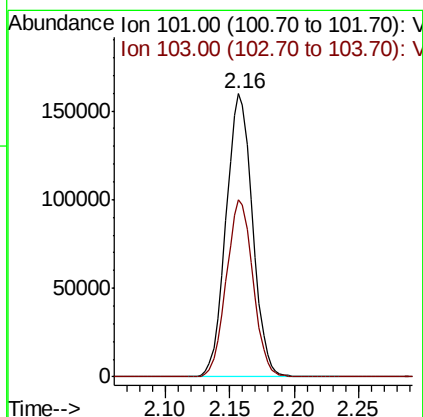
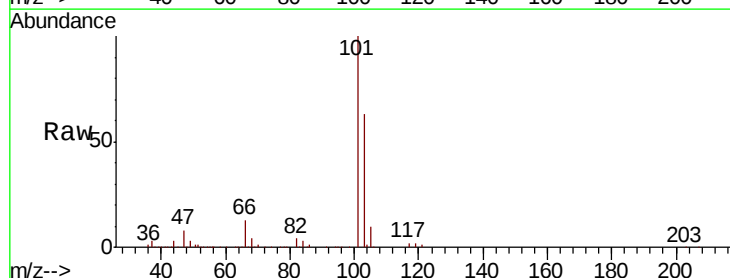
Instrument :
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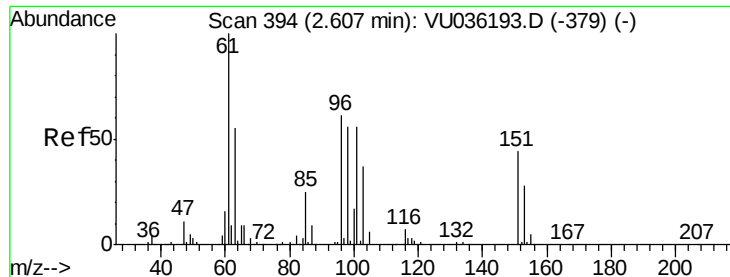
Tot Ion: 64 Resp: 104138
Ion Ratio Lower Upper
64 100
66 33.0 23.1 42.9



#9
Trichlorofluoromethane
Concen: 5.111 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

Tgt Ion:101 Resp: 227478
Ion Ratio Lower Upper
101 100
103 63.0 50.4 75.6





#10

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

Concen: 4.831 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

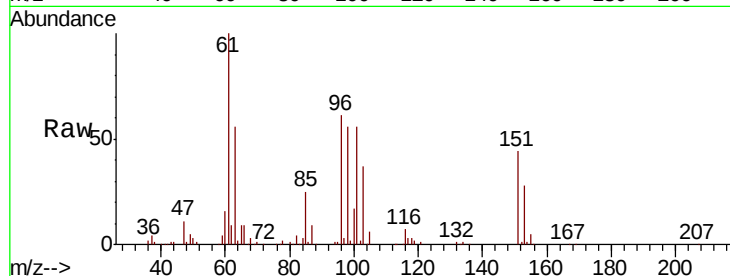
Tot Ion:101 Resp: 105118

Ion Ratio Lower Upper

101 100

85 43.8 35.0 52.6

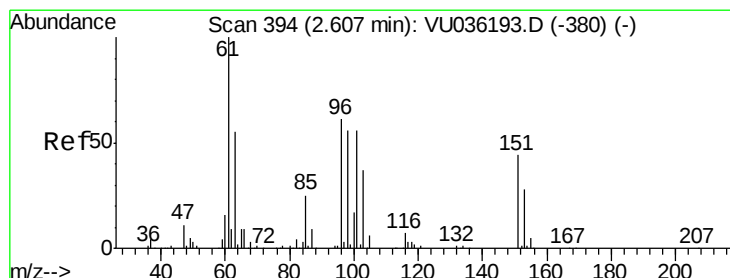
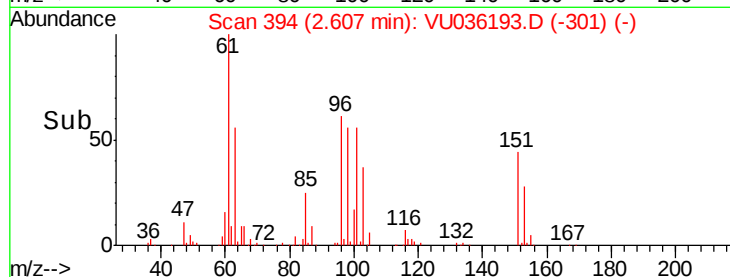
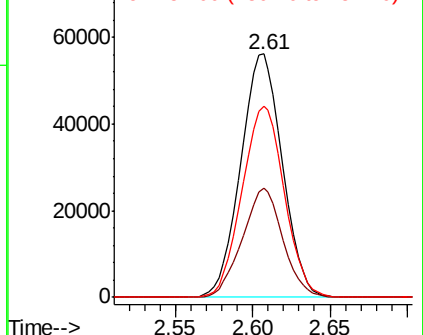
151 79.9 63.9 95.9



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: 4.901 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

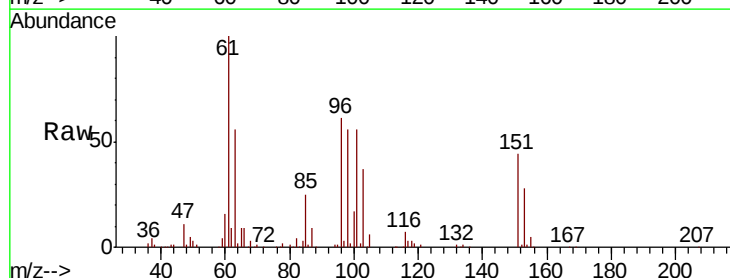
Tgt Ion: 96 Resp: 100666

Ion Ratio Lower Upper

96 100

61 162.9 114.0 211.8

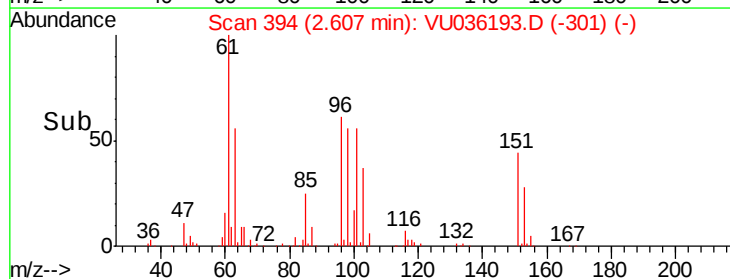
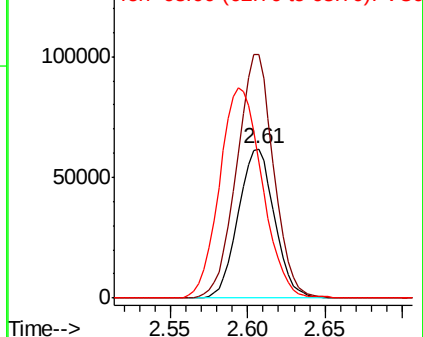
63 90.8 63.6 118.0

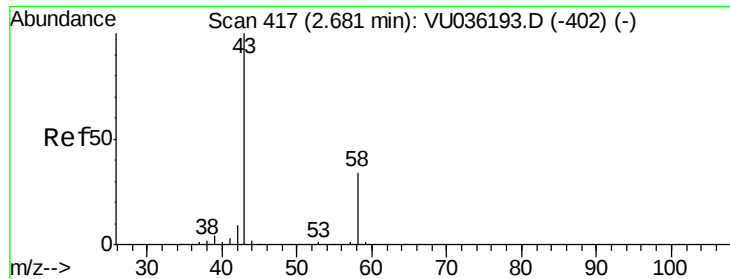


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 44.384 ug/L

RT: 2.68 min Scan# 417

Delta R.T. 0.00 min

Lab File: VU036193.D

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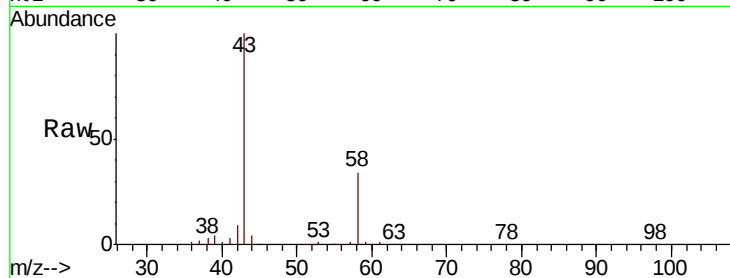
VSTD00503

Tot Ion: 43 Resp: 171188

Ion Ratio Lower Upper

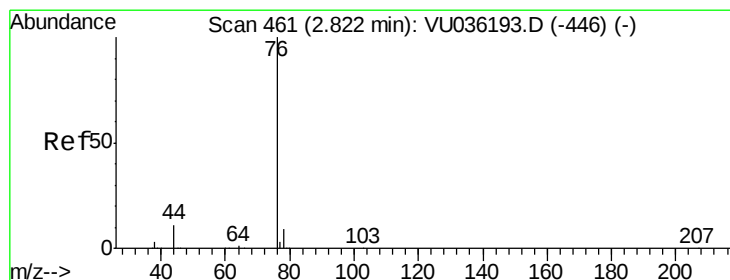
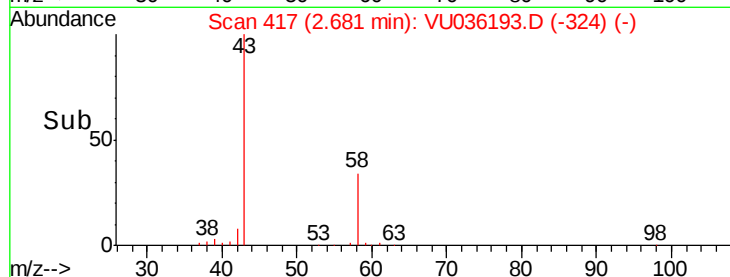
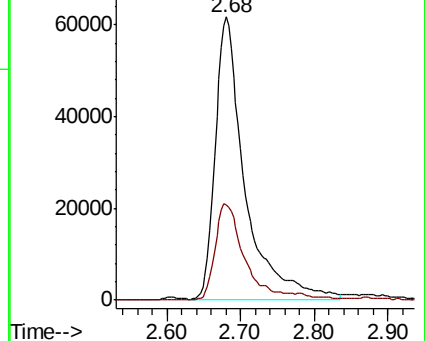
43 100

58 33.8 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU036193.D (-402) (-)

Ion 58.05 (57.75 to 58.75): VU036193.D (-402) (-)



#14

Carbon disulfide

Concen: 4.890 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036193.D

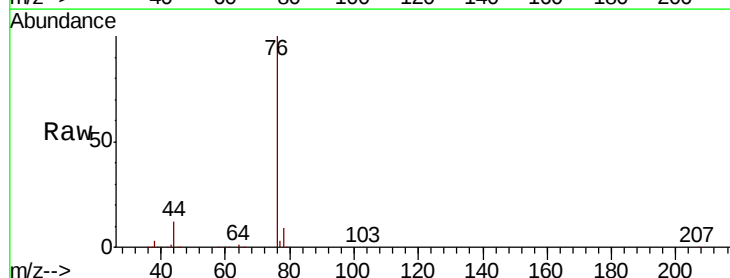
Acq: 13 Dec 2019 13:22

Tgt Ion: 76 Resp: 332636

Ion Ratio Lower Upper

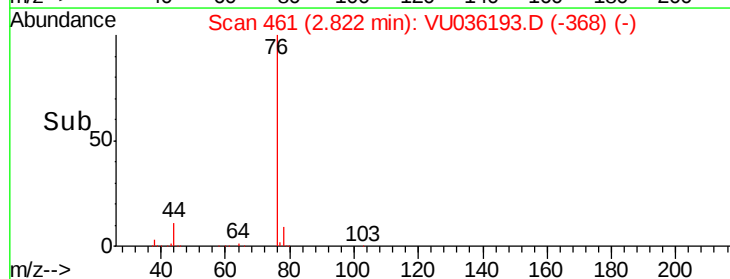
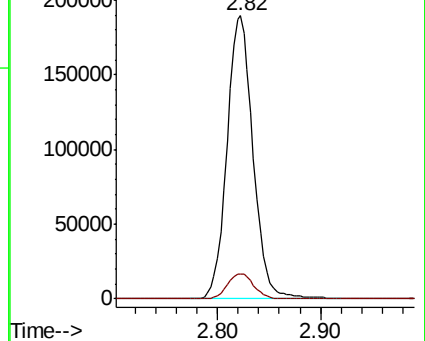
76 100

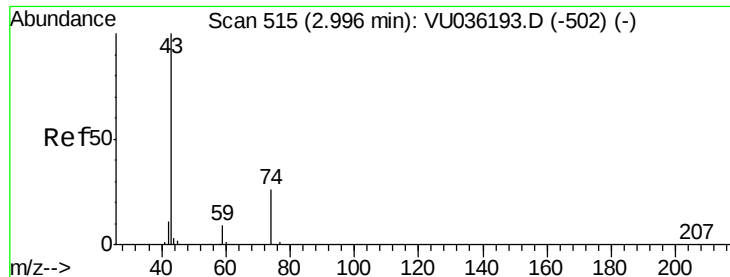
78 8.9 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU036193.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU036193.D (-446) (-)





#15

Methvl Acetate

Concen: 4.828 ug/L

RT: 3.00 min Scan# 515

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

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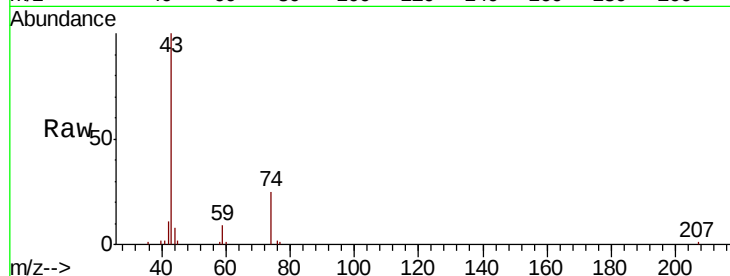
VSTD00503

Tot Ion: 43 Resp: 40047

Ion Ratio Lower Upper

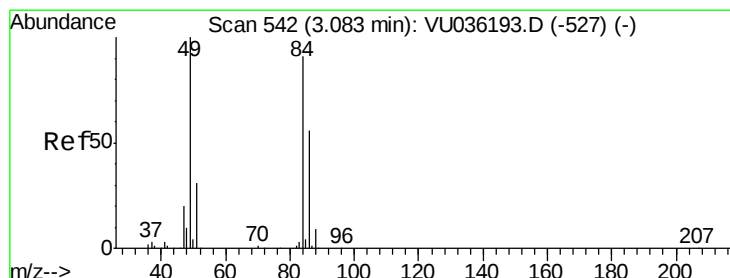
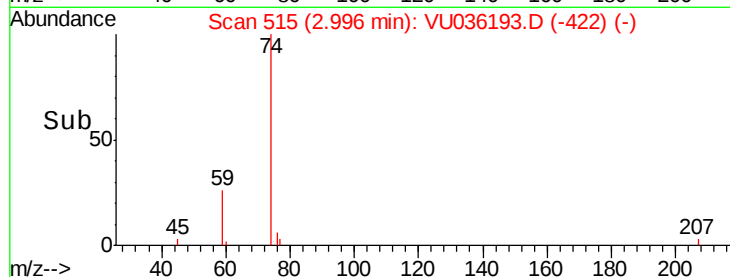
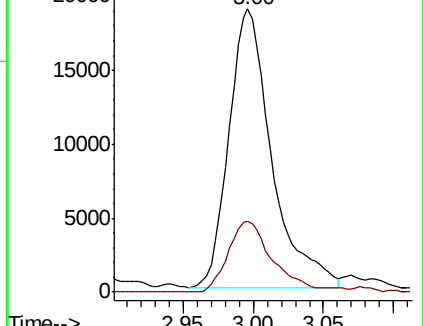
43 100

74 26.0 20.8 31.2



Abundance Ion 43.05 (42.75 to 43.75): VU036193.D (-502) (-)

Ion 74.05 (73.75 to 74.75): VU036193.D (-502) (-)



#16

Methylene chloride

Concen: 4.178 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

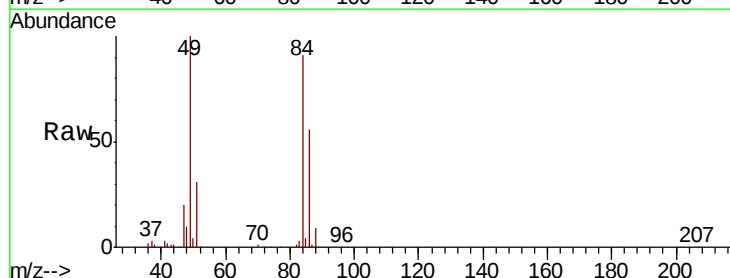
Tgt Ion: 84 Resp: 120388

Ion Ratio Lower Upper

84 100

86 61.4 43.0 79.8

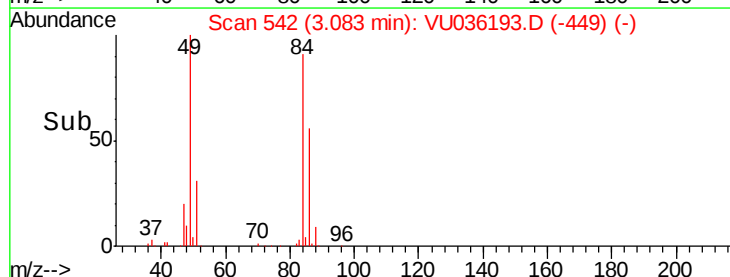
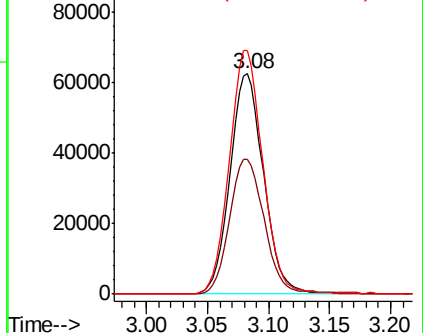
49 110.4 77.3 143.5

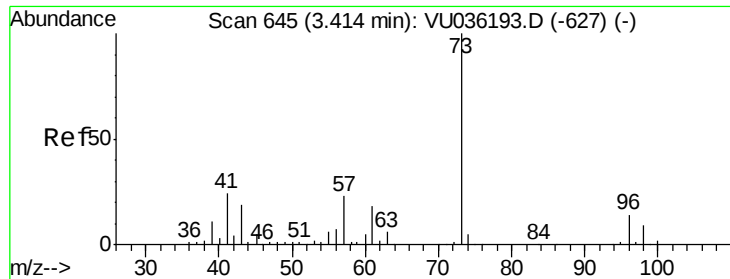


Abundance Ion 84.05 (83.75 to 84.75): VU036193.D (-527) (-)

Ion 86.00 (85.70 to 86.70): VU036193.D (-527) (-)

Ion 49.10 (48.80 to 49.80): VU036193.D (-527) (-)

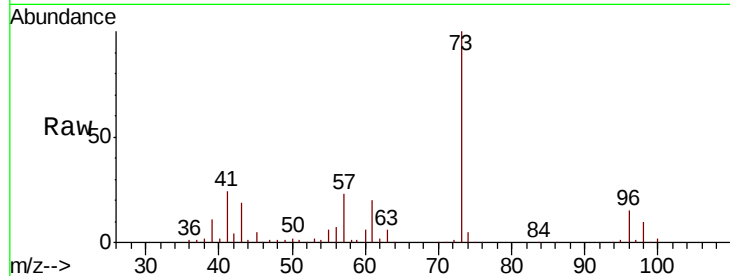




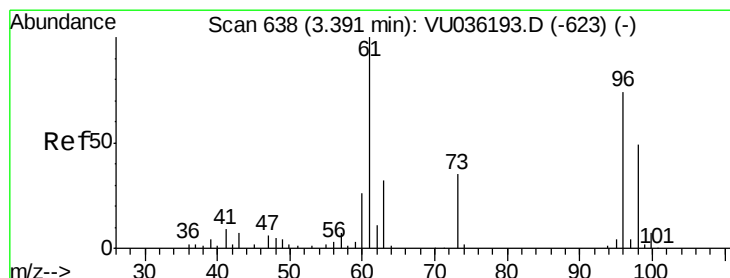
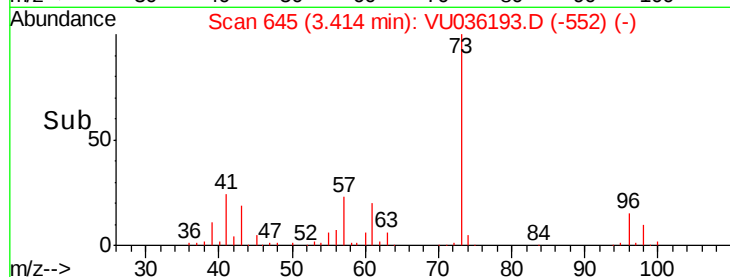
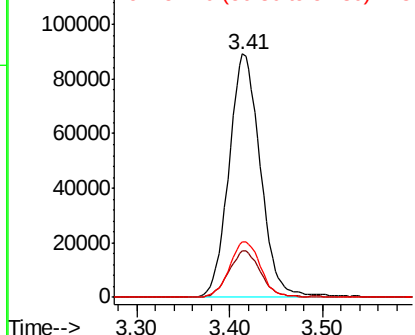
#17
Methvl tert-butvl Ether
Concen: 4.907 ug/L
RT: 3.41 min Scan# 645
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

Tot Ion: 73 Resp: 209615
Ion Ratio Lower Upper
73 100
43 19.1 15.3 22.9
57 22.7 18.2 27.2

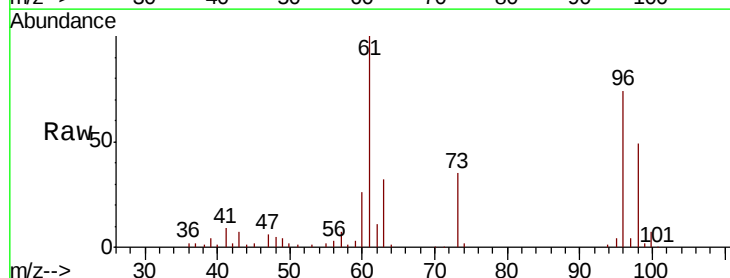


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

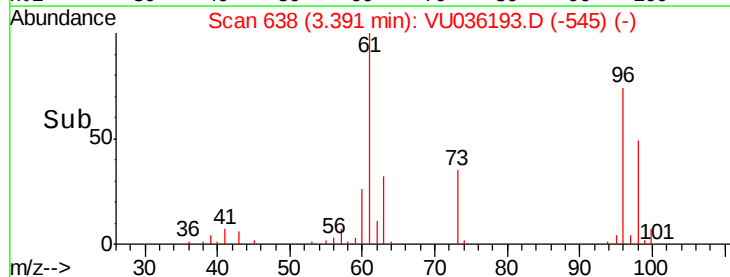
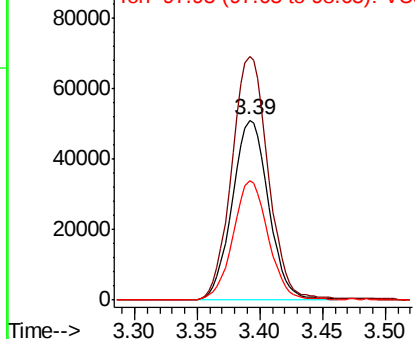


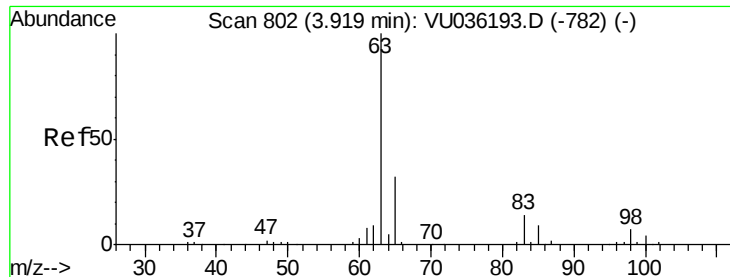
#18
trans-1,2-Dichloroethene
Concen: 4.827 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

Tgt Ion: 96 Resp: 102941
Ion Ratio Lower Upper
96 100
61 135.5 94.8 176.2
98 66.8 46.8 86.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

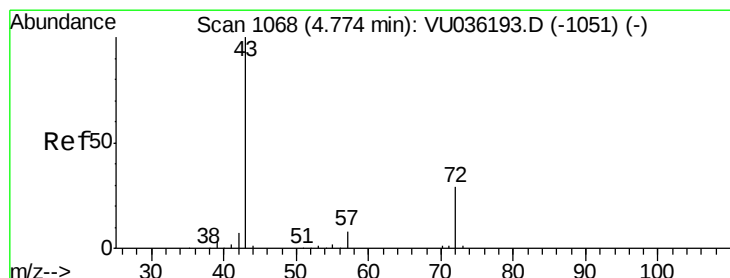
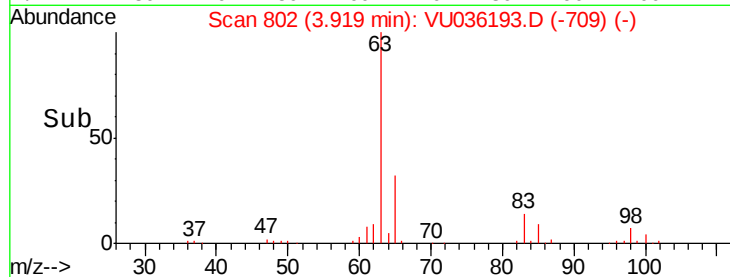
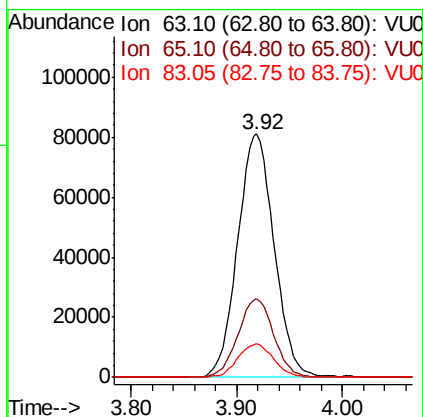
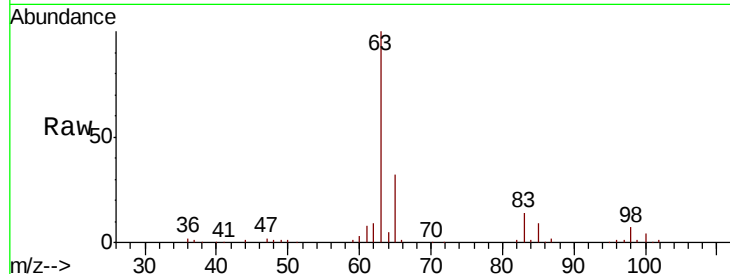




#19
 1,1-Dichloroethane
 Concen: 4.967 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

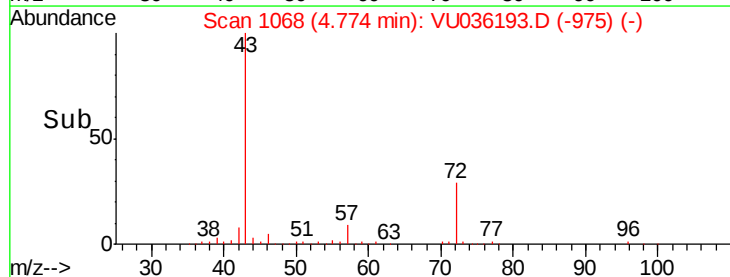
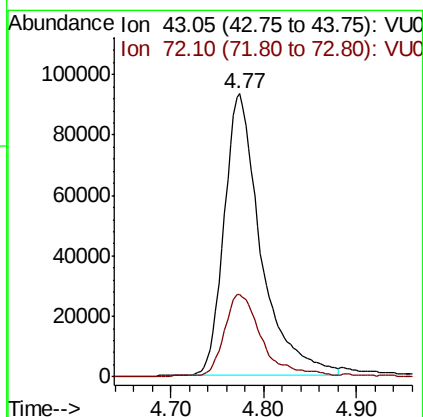
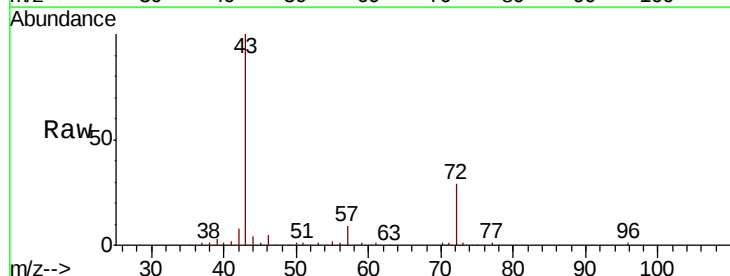
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

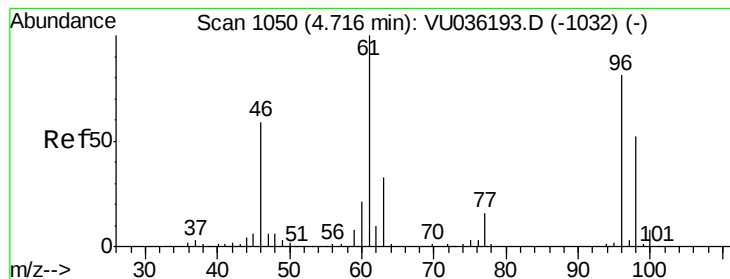
Tot Ion: 63 Resp: 194712
 Ion Ratio Lower Upper
 63 100
 65 32.3 22.6 42.0
 83 13.9 9.7 18.1



#21
 2-Butanone
 Concen: 49.855 ug/L
 RT: 4.77 min Scan# 1068
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

Tgt Ion: 43 Resp: 255677
 Ion Ratio Lower Upper
 43 100
 72 28.9 14.4 43.4





#22

cis-1,2-Dichloroethene

Concen: 4.944 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

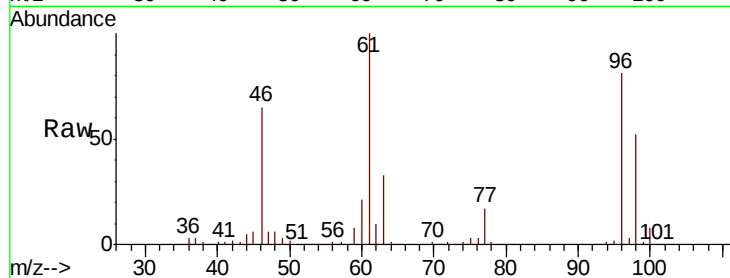
Tot Ion: 96 Resp: 108380

Ion Ratio Lower Upper

96 100

61 123.9 86.7 161.1

68 0.0 0.0 0.0

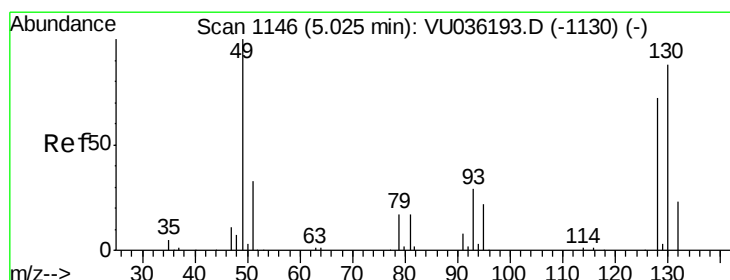
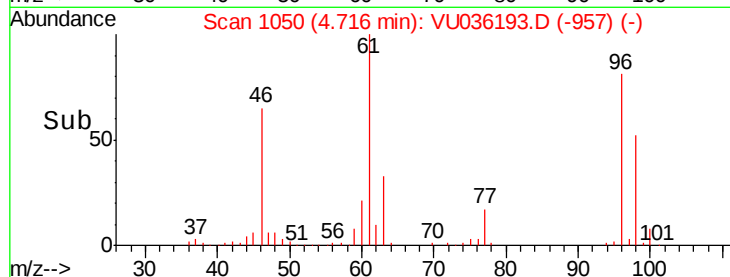
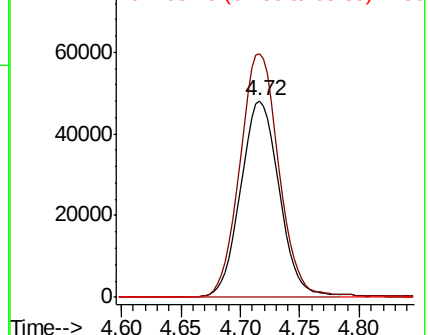


Abundance

Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 4.997 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Tgt Ion: 128 Resp: 54524

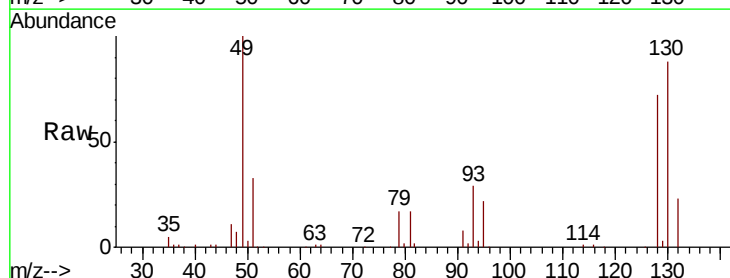
Ion Ratio Lower Upper

128 100

49 139.5 97.6 181.4

130 122.7 85.9 159.5

51 46.2 37.0 55.4



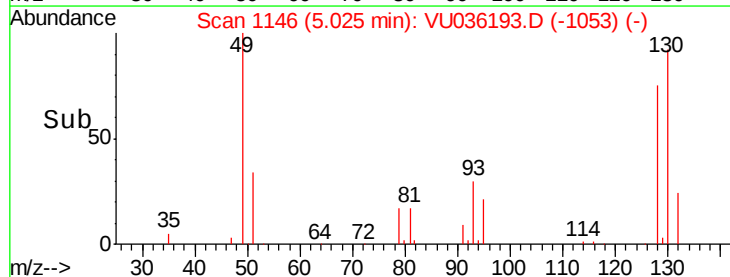
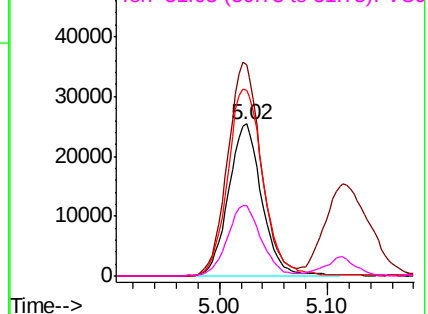
Abundance

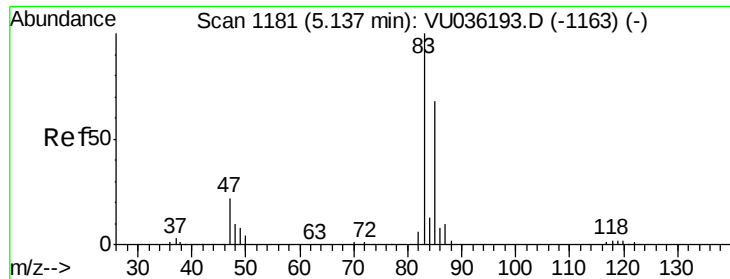
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

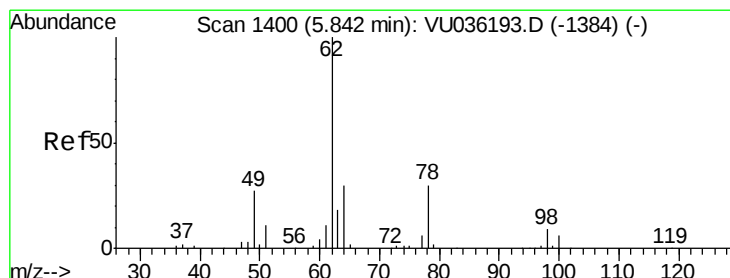
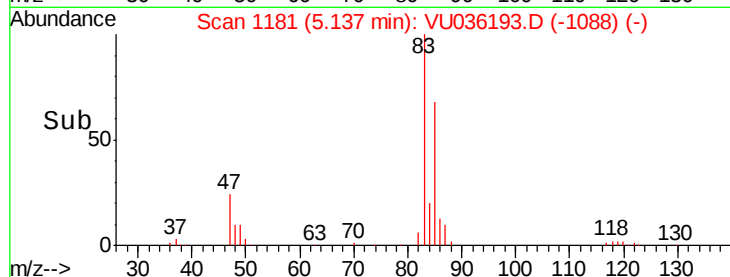
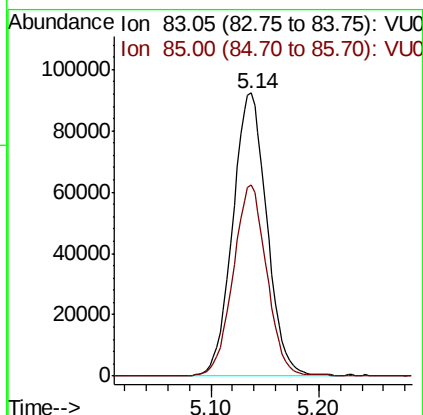
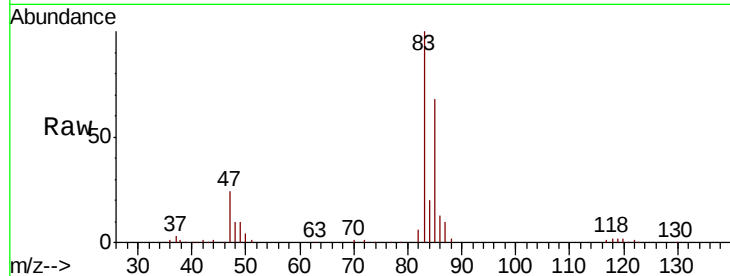




#25
Chloroform
Concen: 4.923 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

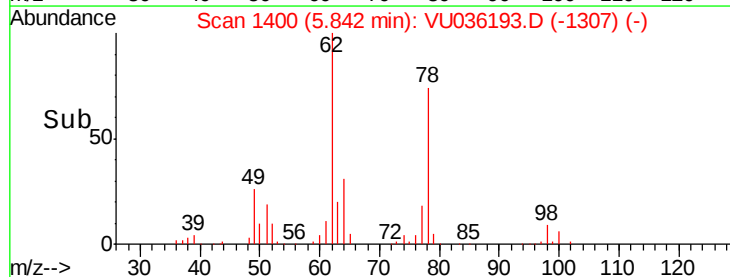
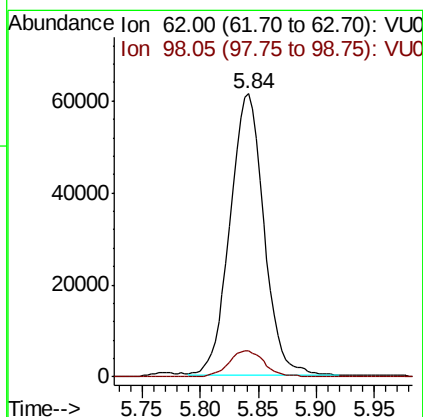
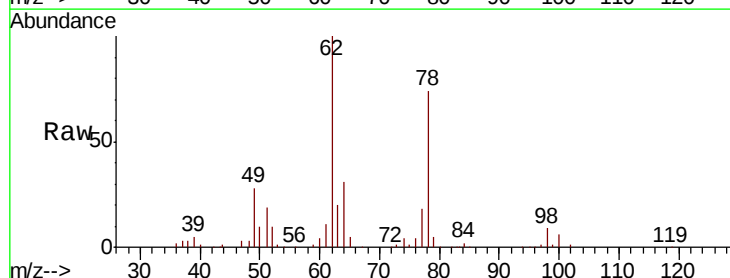
Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

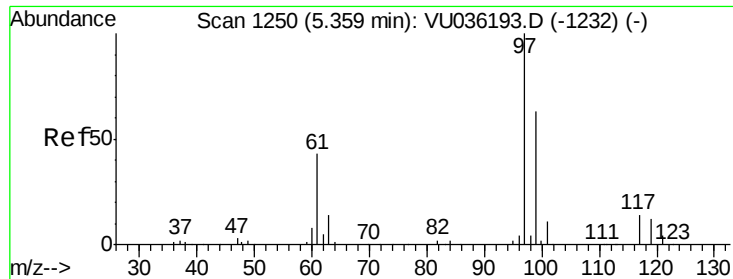
Tot Ion: 83 Resp: 203705
Ion Ratio Lower Upper
83 100
85 67.8 47.5 88.1



#27
1,2-Dichloroethane
Concen: 5.070 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

Tgt Ion: 62 Resp: 123474
Ion Ratio Lower Upper
62 100
98 9.1 7.3 10.9

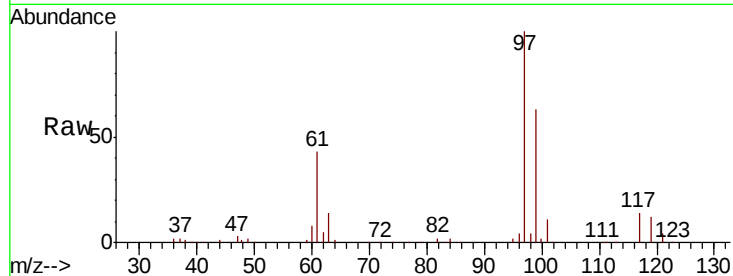




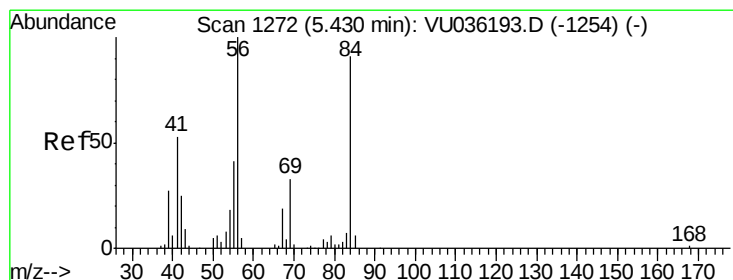
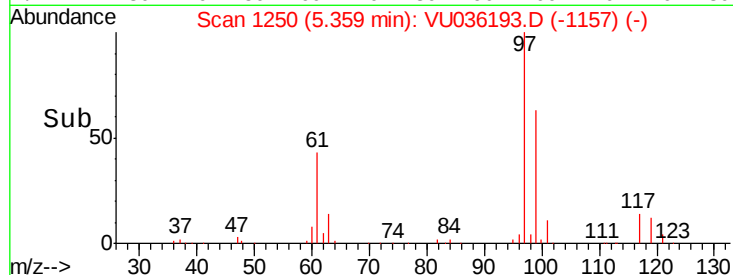
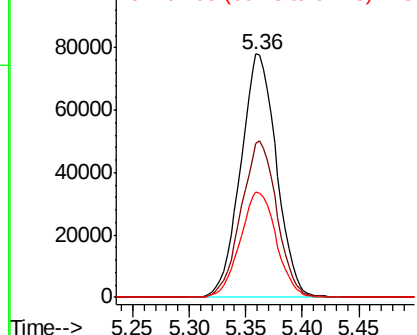
#29
 1,1,1-Trichloroethane
 Concen: 4.916 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

Tot Ion: 97 Resp: 172044
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.4 77.2
 61 43.8 35.0 52.6

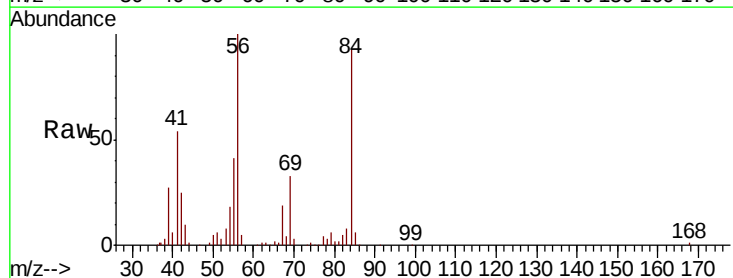


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

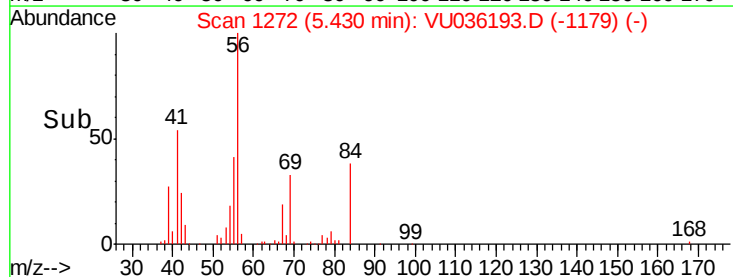
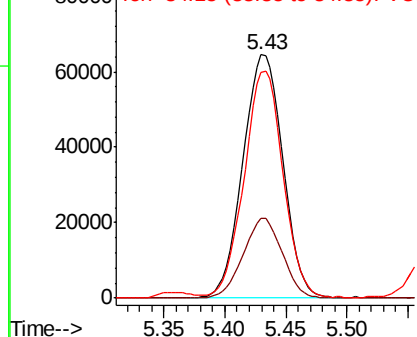


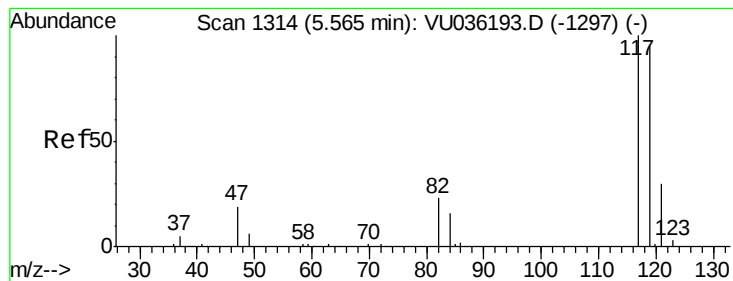
#30
 Cyclohexane
 Concen: 4.927 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

Tgt Ion: 56 Resp: 146364
 Ion Ratio Lower Upper
 56 100
 69 32.0 25.6 38.4
 84 91.2 73.0 109.4



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.033 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

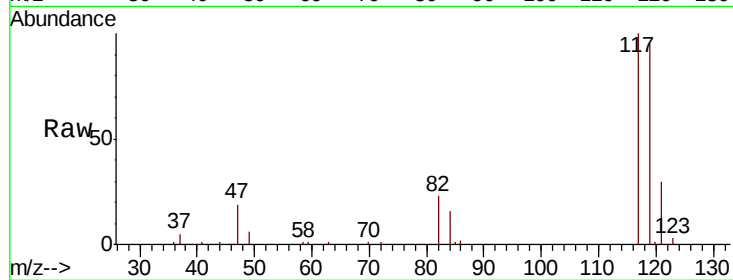
VSTD00503

Tot Ion:117 Resp: 157367

Ion Ratio Lower Upper

117 100

119 96.5 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.57

80000

60000

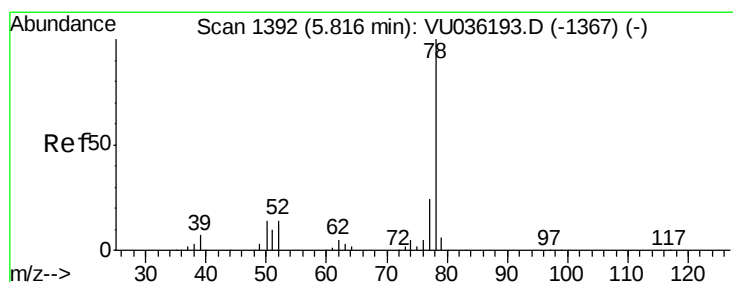
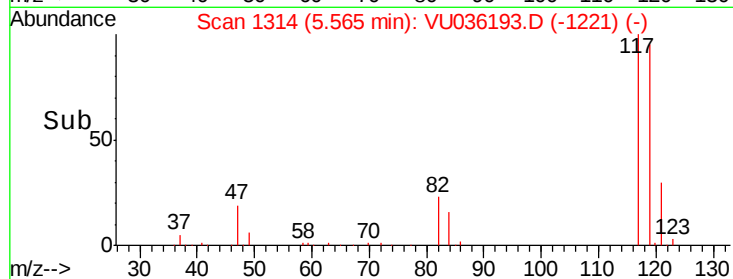
40000

20000

0

Time-->

5.50 5.55 5.60 5.65



#33

Benzene

Concen: 5.072 ug/L

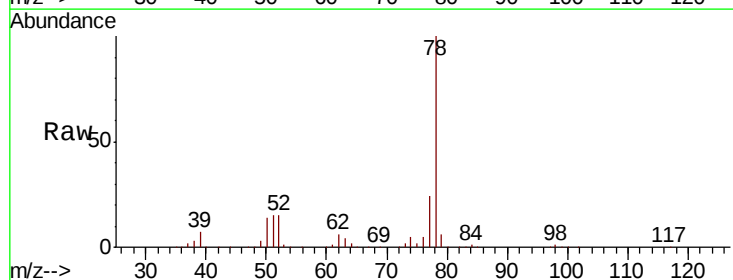
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Tgt Ion: 78 Resp: 443518



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.82

250000

200000

150000

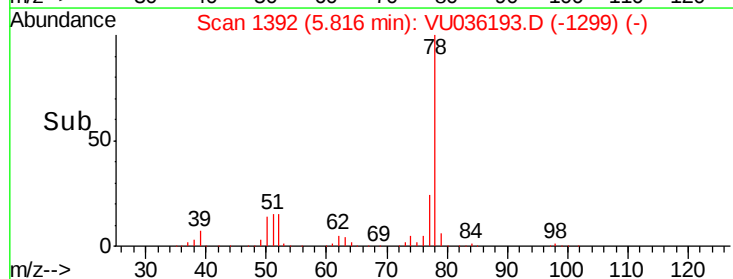
100000

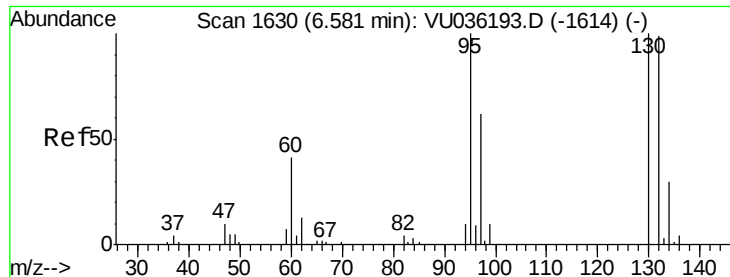
50000

0

Time-->

5.70 5.80 5.90





#34

Trichloroethene

Concen: 5.050 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

Tot Ion: 95 Resp: 113469

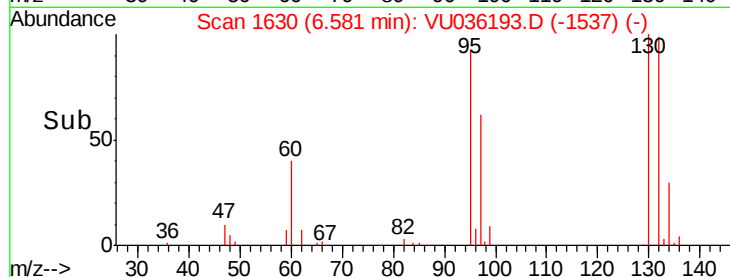
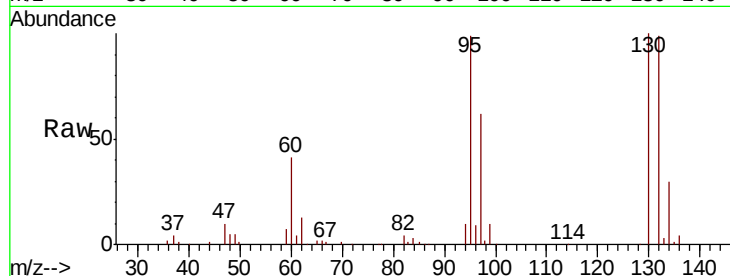
Ion Ratio Lower Upper

95 100

97 62.3 43.6 81.0

132 99.4 69.6 129.2

130 100.5 70.3 130.7

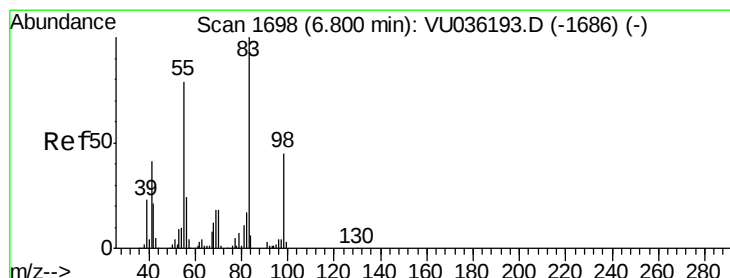
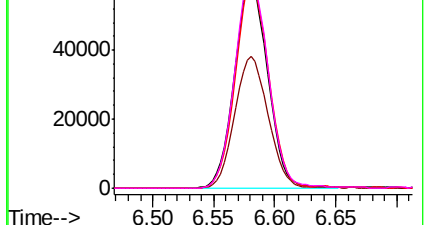


Abundance Ion 95.00 (94.70 to 95.70): VU036193.D (-1537) (-)

Ion 96.95 (96.65 to 97.65): VU036193.D (-1537) (-)

Ion 131.95 (131.65 to 132.65): VU036193.D (-1537) (-)

Ion 129.95 (129.65 to 130.65): VU036193.D (-1537) (-)



#35

Methylcyclohexane

Concen: 5.047 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

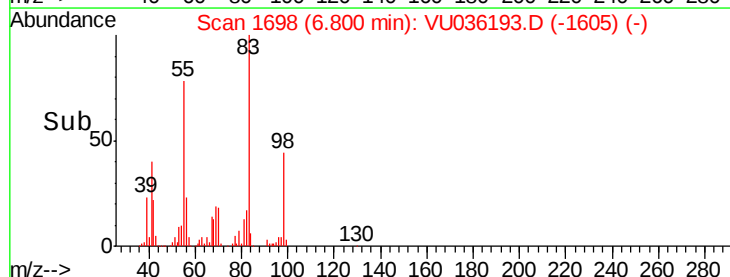
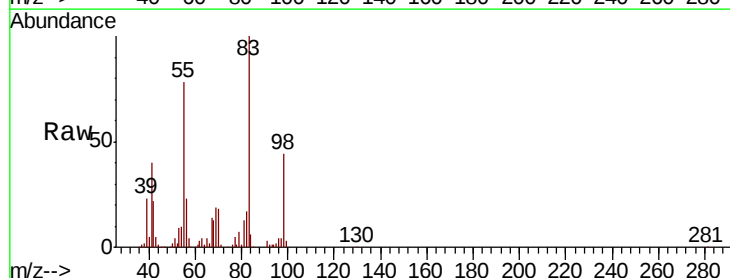
Tgt Ion: 83 Resp: 161130

Ion Ratio Lower Upper

83 100

55 78.3 62.6 94.0

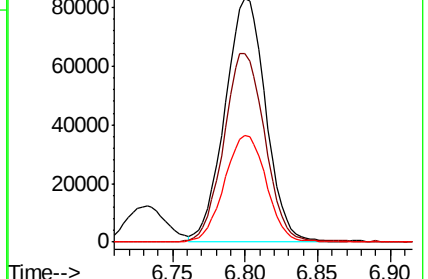
98 45.2 36.2 54.2

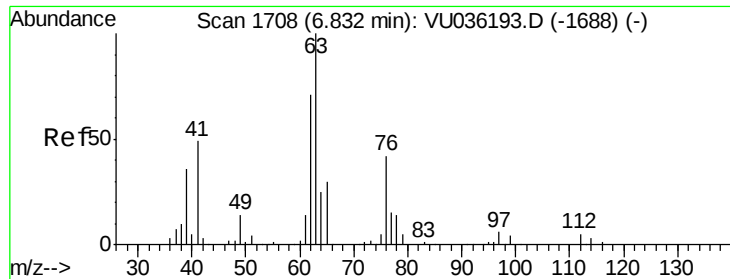


Abundance Ion 83.15 (82.85 to 83.85): VU036193.D (-1605) (-)

Ion 55.10 (54.80 to 55.80): VU036193.D (-1605) (-)

Ion 98.15 (97.85 to 98.85): VU036193.D (-1605) (-)

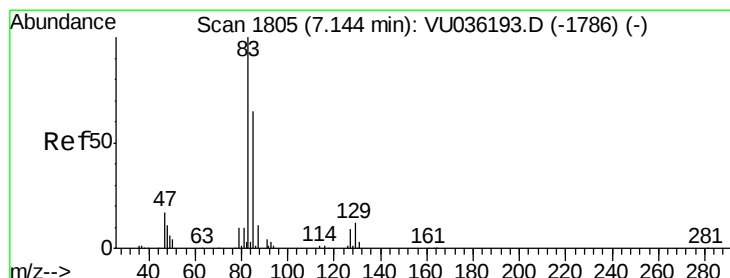
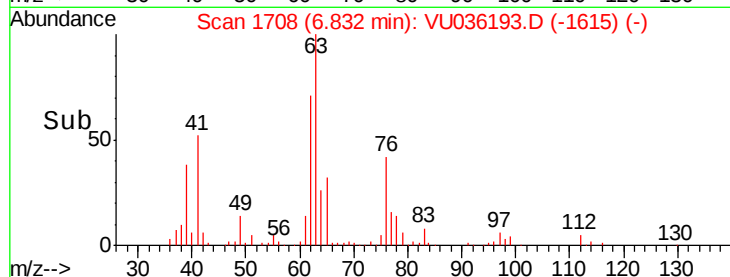
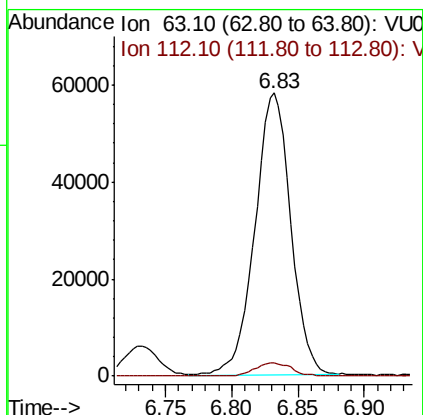
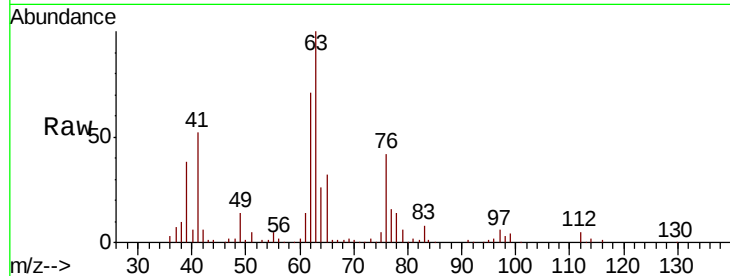




#37
 1,2-Dichloropropane
 Concen: 4.900 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

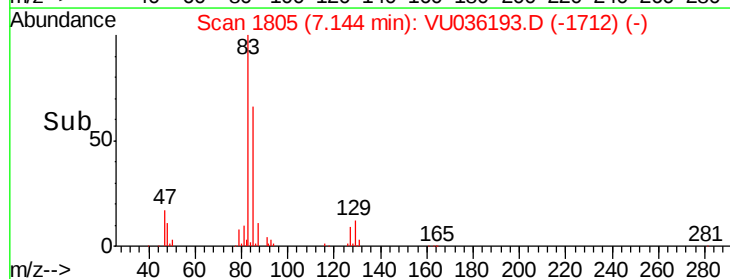
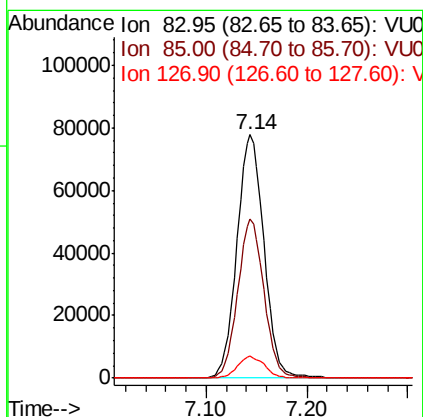
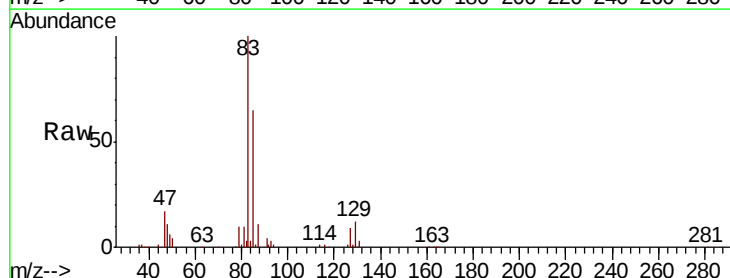
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

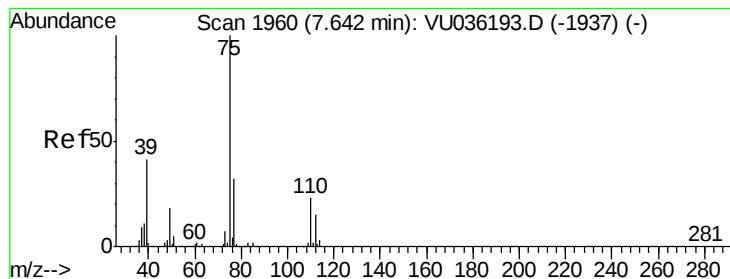
Tot Ion: 63 Resp: 110018
 Ion Ratio Lower Upper
 63 100
 112 4.8 3.8 5.8



#38
 Bromodichloromethane
 Concen: 5.006 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

Tgt Ion: 83 Resp: 144476
 Ion Ratio Lower Upper
 83 100
 85 65.1 45.6 84.6
 127 8.9 7.1 10.7



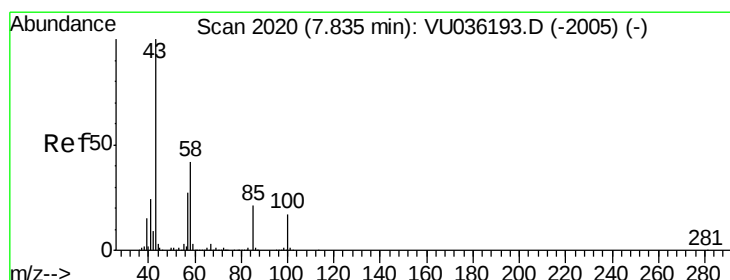
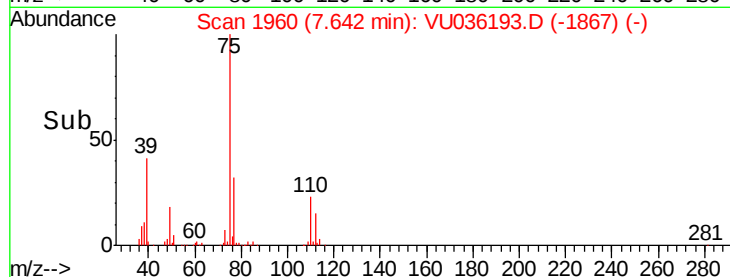
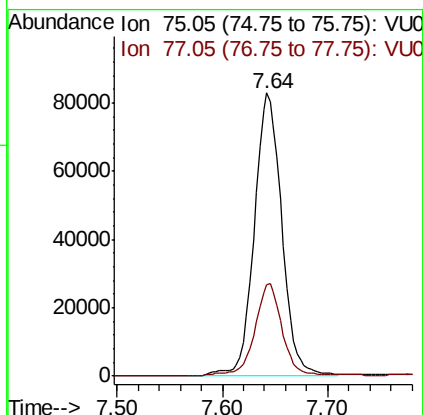
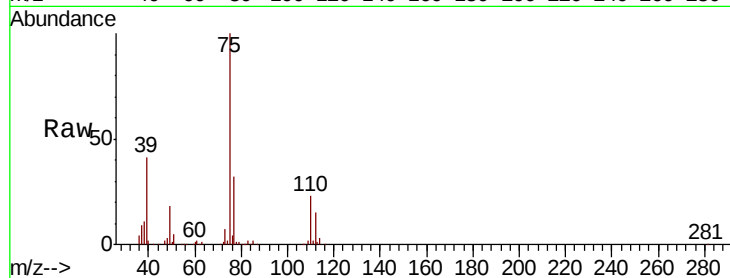


#39

cis-1,3-Dichloropropene
Concen: 5.061 ug/L
RT: 7.64 min Scan# 1960
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

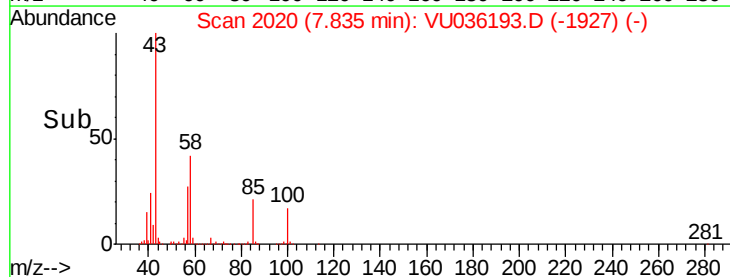
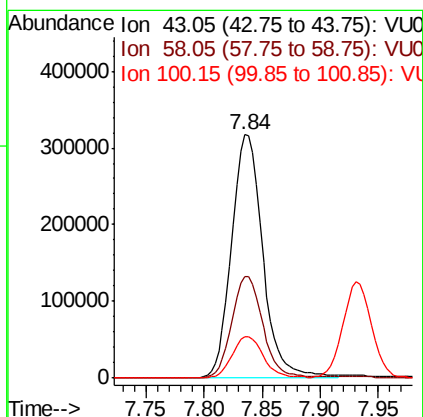
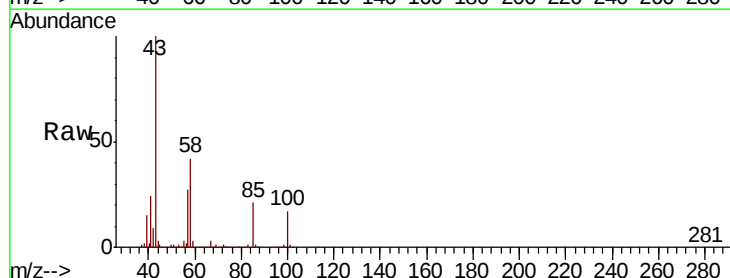
Tot Ion: 75 Resp: 151445
Ion Ratio Lower Upper
75 100
77 32.4 22.7 42.1

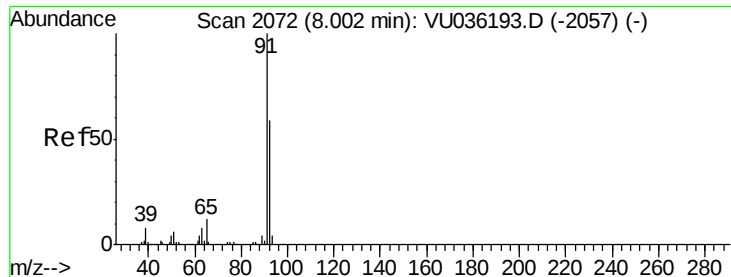


#40

4-Methyl-2-pentanone
Concen: 51.898 ug/L
RT: 7.84 min Scan# 2020
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

Tgt Ion: 43 Resp: 593931
Ion Ratio Lower Upper
43 100
58 41.6 33.3 49.9
100 17.1 13.7 20.5





#42

Toluene

Concen: 5.218 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

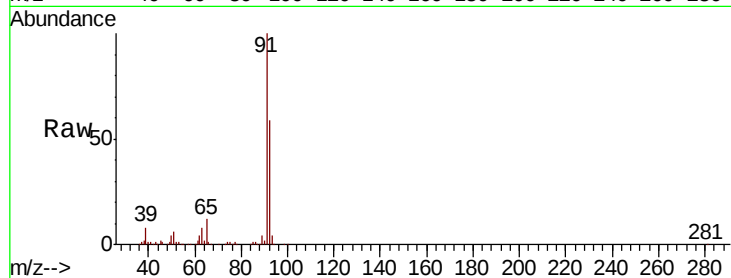
VSTD00503

Tot Ion: 91 Resp: 481976

Ion Ratio Lower Upper

91 100

92 58.9 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU036193.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036193.D (-2057) (-)

8.00

300000

250000

200000

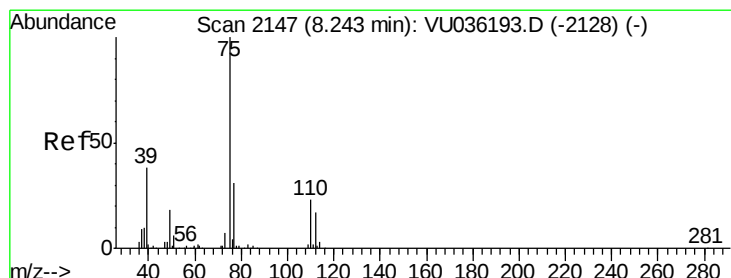
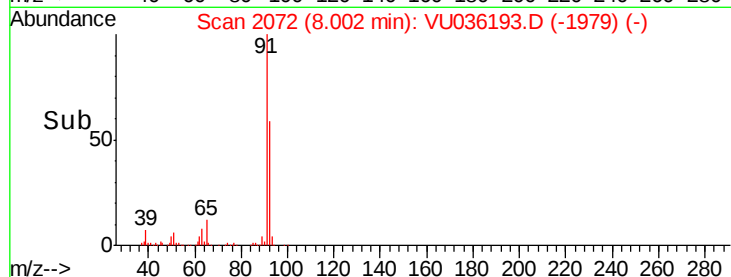
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.160 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036193.D

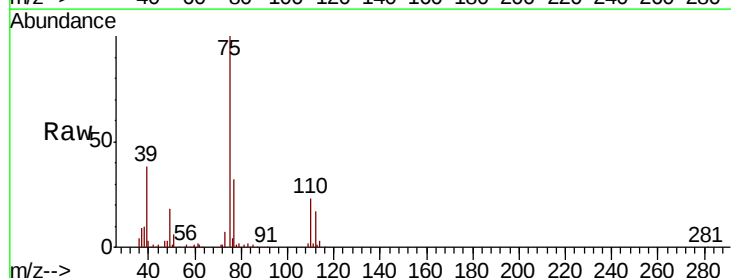
Acq: 13 Dec 2019 13:22

Tgt Ion: 75 Resp: 130215

Ion Ratio Lower Upper

75 100

77 31.6 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU036193.D (-2128) (-)

Ion 77.05 (76.75 to 77.75): VU036193.D (-2128) (-)

8.24

80000

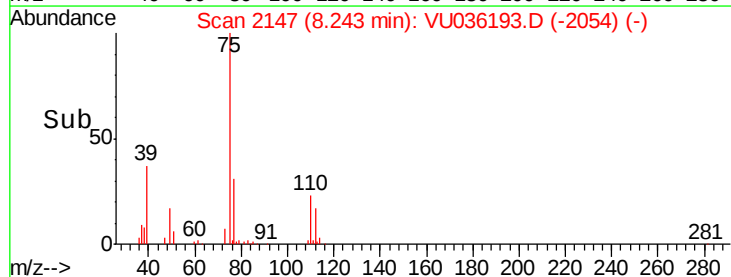
60000

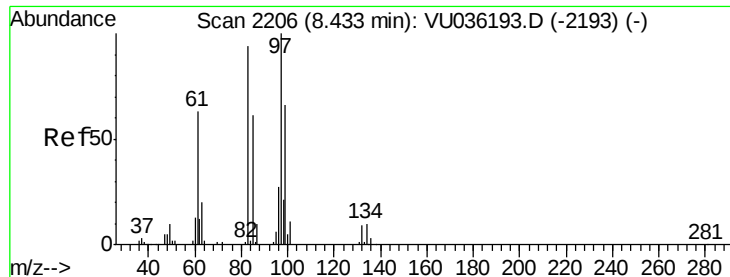
40000

20000

0

Time-->

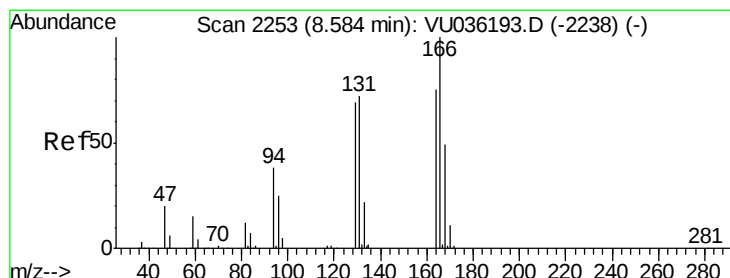
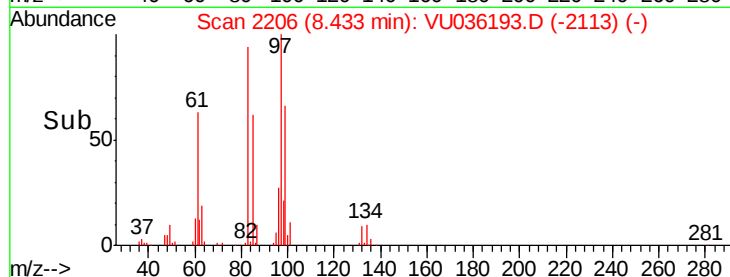
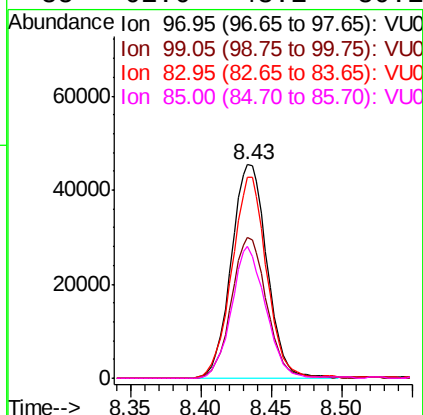
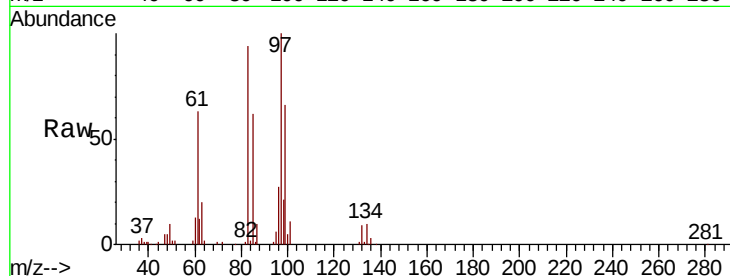




#45
 1,1,2-Trichloroethane
 Concen: 4.877 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

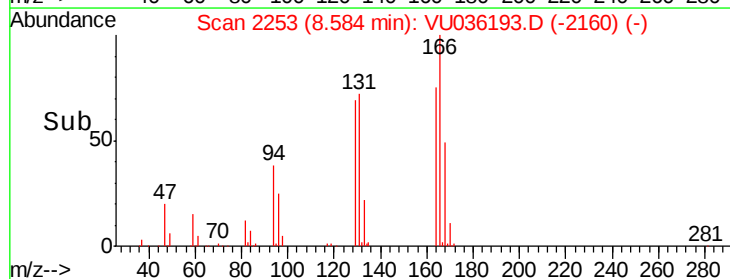
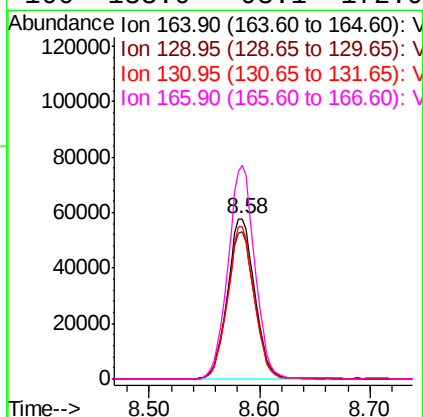
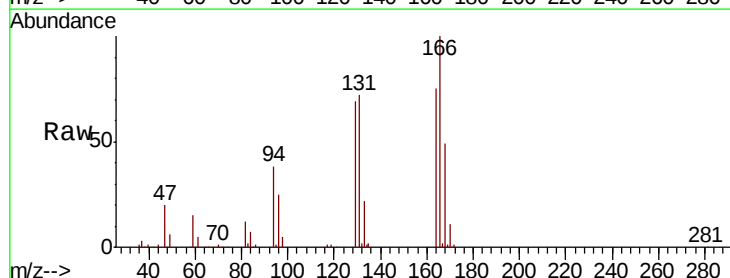
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

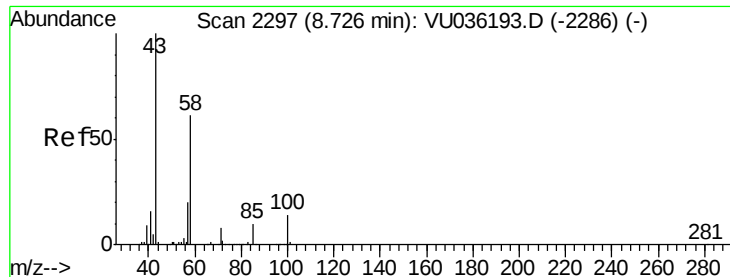
Tot Ion:	97	Resp:	80739
Ion	Ratio	Lower	Upper
97	100		
99	65.8	46.1	85.5
83	94.1	65.9	122.3
85	61.6	43.1	80.1



#47
 Tetrachloroethene
 Concen: 5.061 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

Tgt Ion:	164	Resp:	99184
Ion	Ratio	Lower	Upper
164	100		
129	91.7	64.2	119.2
131	95.2	66.6	123.8
166	133.0	93.1	172.9

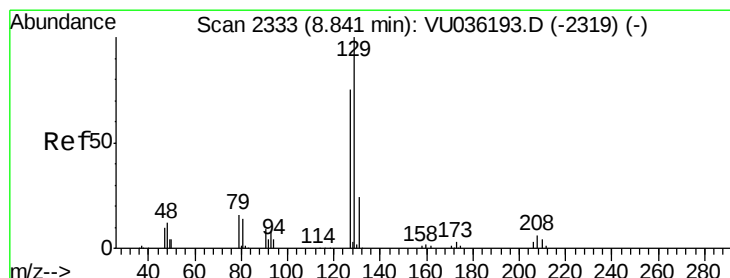
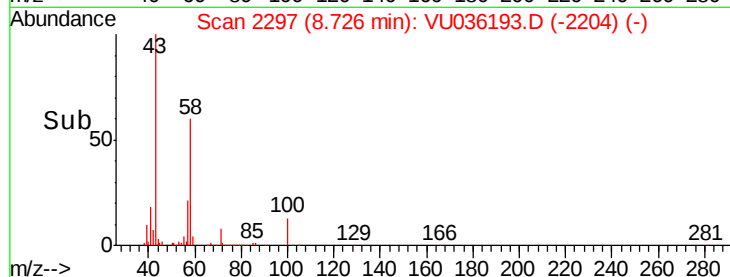
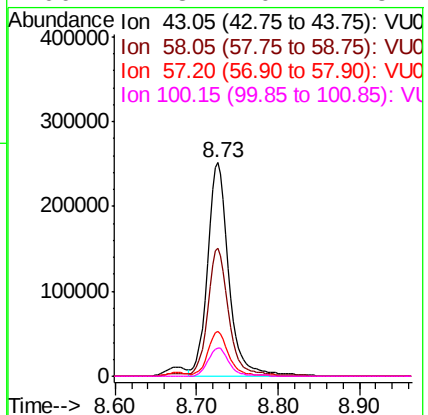
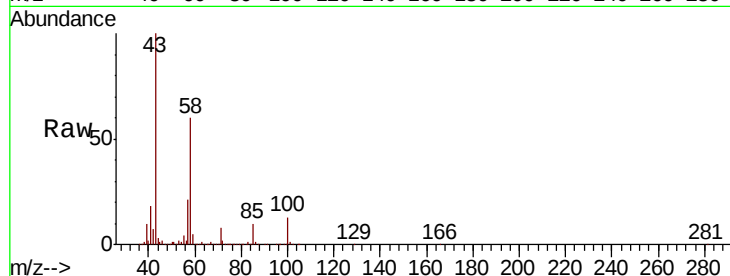




#48
2-Hexanone
Concen: 54.743 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

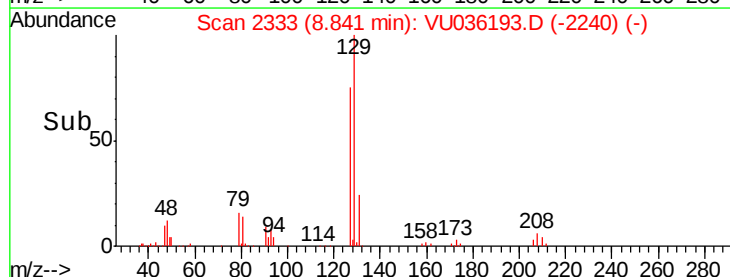
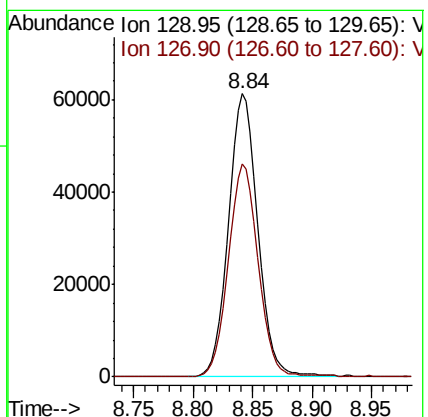
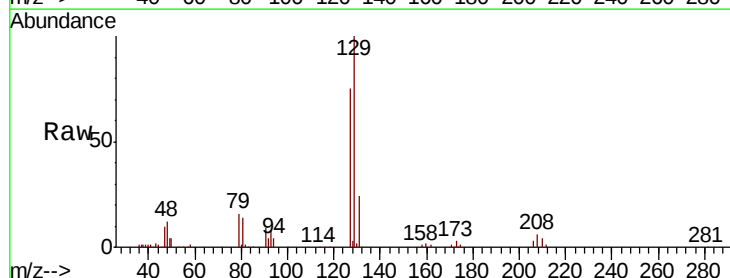
Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

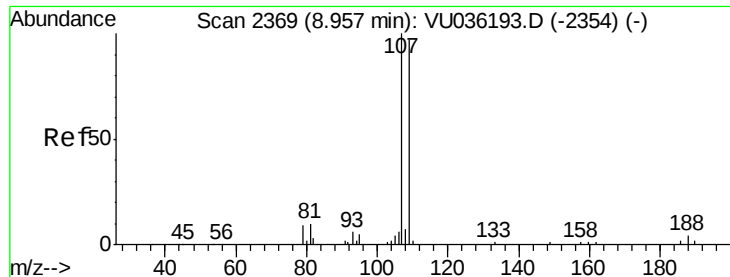
Tot Ion:	43	Resp:	461506
Ion	Ratio	Lower	Upper
43	100		
58	57.7	46.2	69.2
57	20.3	16.2	24.4
100	12.8	10.2	15.4



#49
Dibromochloromethane
Concen: 5.059 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

Tgt Ion:	129	Resp:	104812
Ion	Ratio	Lower	Upper
129	100		
127	75.1	52.6	97.6

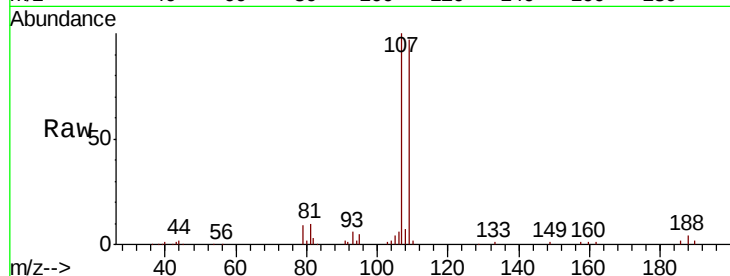




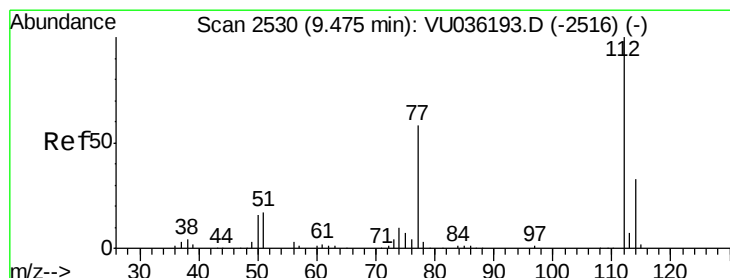
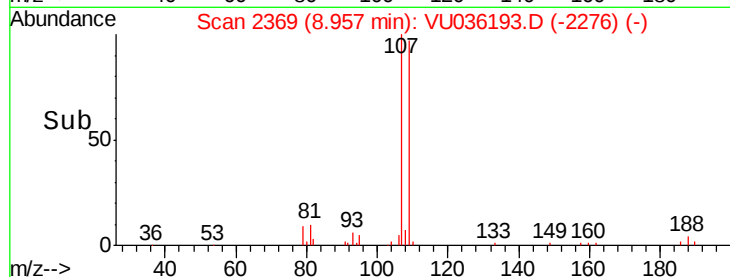
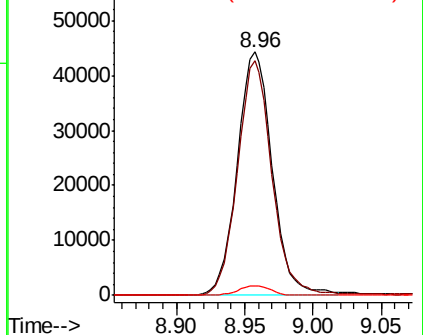
#50
 1,2-Dibromoethane
 Concen: 5.072 ug/L
 RT: 8.96 min Scan# 2369
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.5	67.5	125.4
188	3.9	3.1	4.7

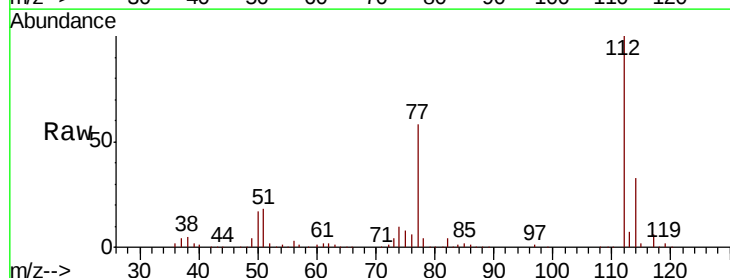


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

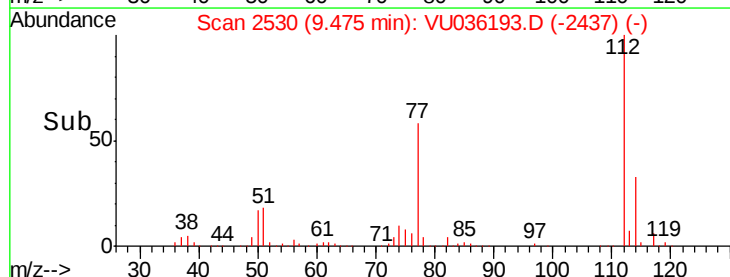
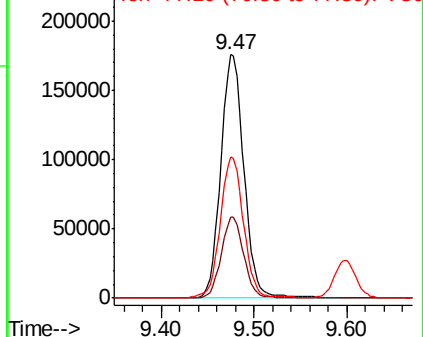


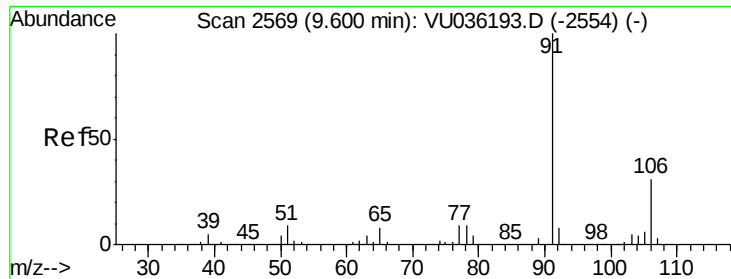
#51
 Chlorobenzene
 Concen: 5.034 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.2	23.2	43.2
77	58.1	46.5	69.7



Abundance Ion 112.10 (111.80 to 112.80): V
 Ion 114.05 (113.75 to 114.75): V
 Ion 77.10 (76.80 to 77.80): VU





#52

Ethylbenzene

Concen: 5.172 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

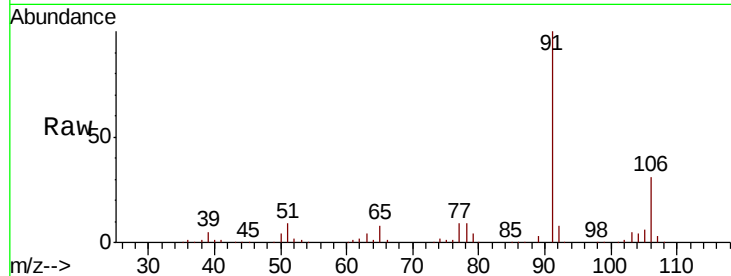
VSTD00503

Tot Ion: 91 Resp: 468824

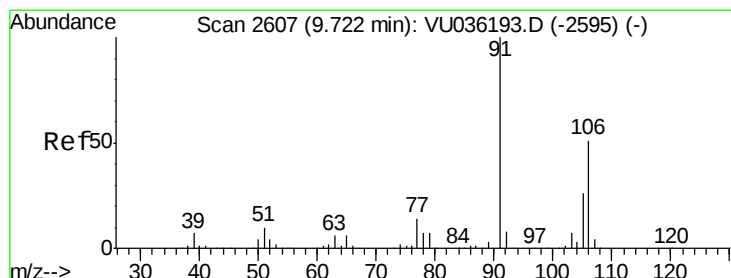
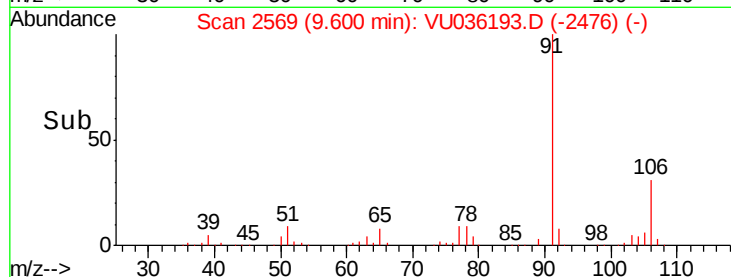
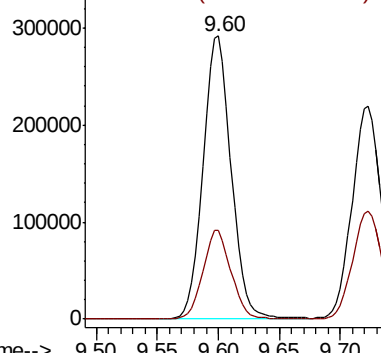
Ion Ratio Lower Upper

91 100

106 31.5 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU036193.D (-2554) (-)



#53

m,p-Xylene

Concen: 5.308 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036193.D

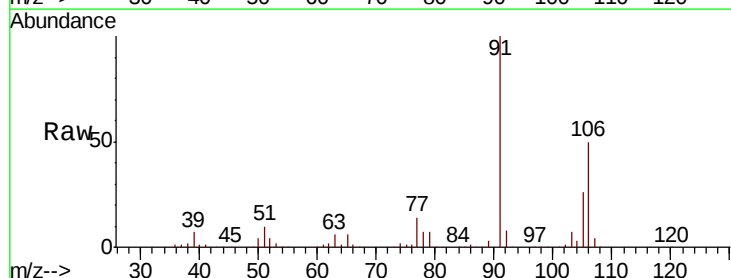
Acq: 13 Dec 2019 13:22

Tgt Ion: 106 Resp: 189123

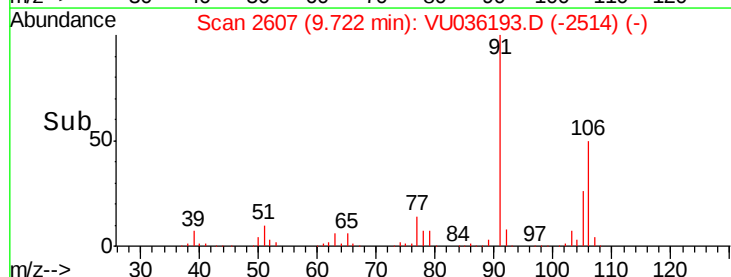
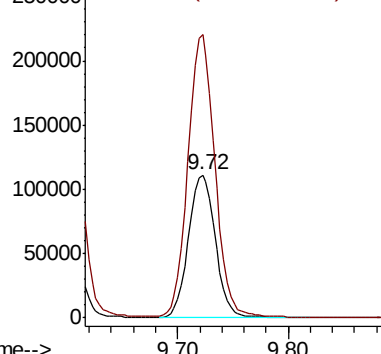
Ion Ratio Lower Upper

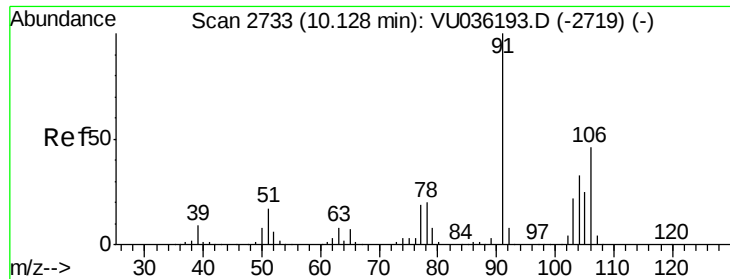
106 100

91 198.2 138.7 257.7



Abundance Ion 106.15 (105.85 to 106.85): VU036193.D (-2595) (-)

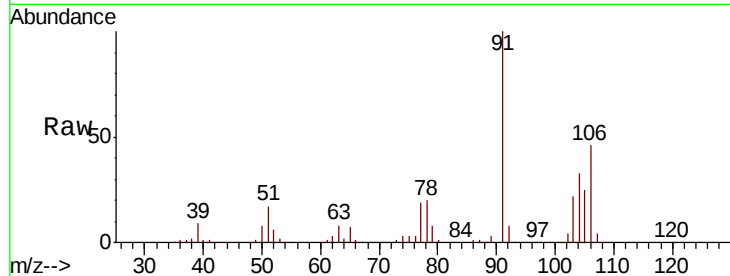




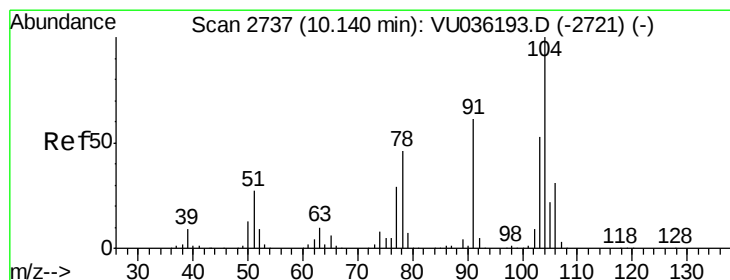
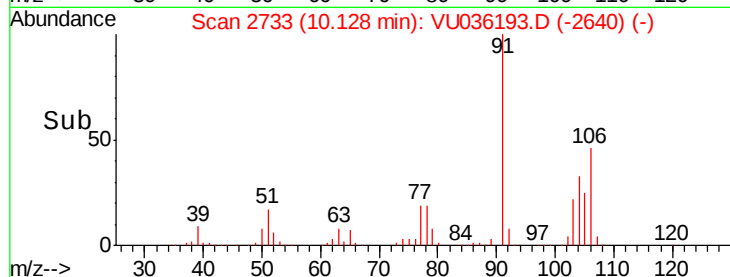
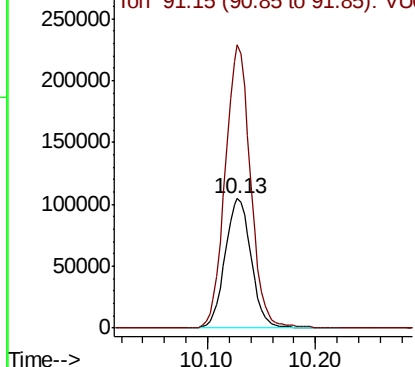
#54
o-Xylene
Concen: 5.204 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD00503

Tot Ion:106 Resp: 176913
Ion Ratio Lower Upper
106 100
91 218.3 152.8 283.8

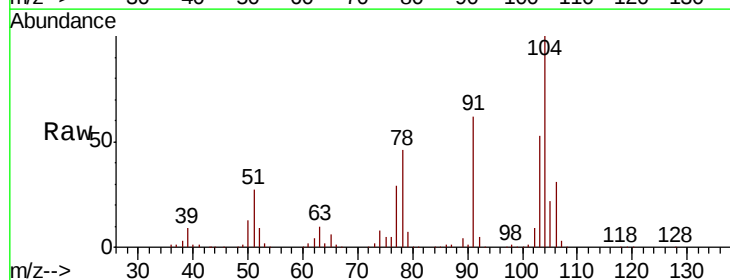


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

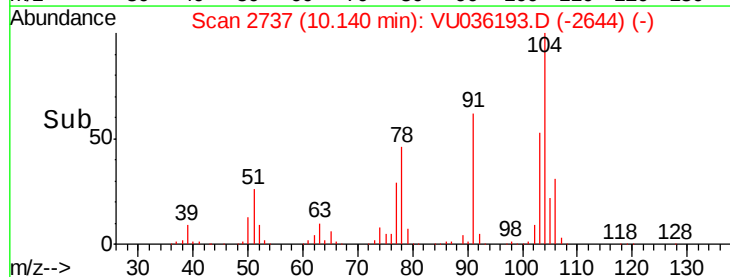
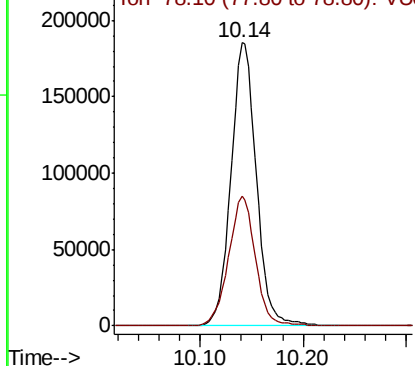


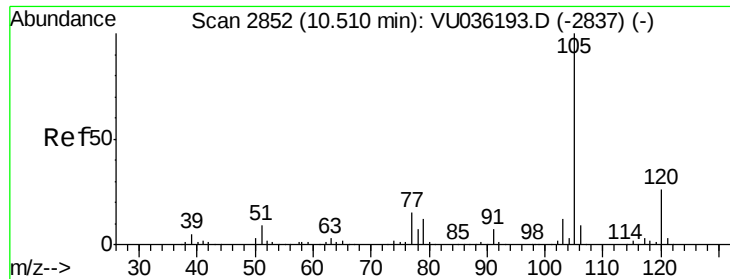
#55
Styrene
Concen: 5.281 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. 0.00 min
Lab File: VU036193.D
Acq: 13 Dec 2019 13:22

Tgt Ion:104 Resp: 319693
Ion Ratio Lower Upper
104 100
78 45.8 32.1 59.5



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.256 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

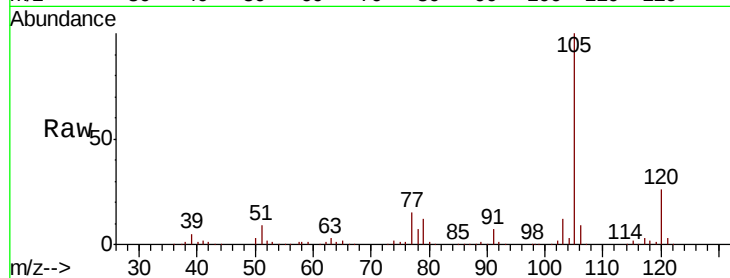
Tot Ion:105 Resp: 455845

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.6

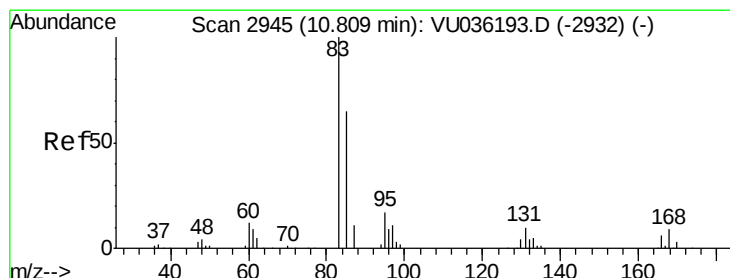
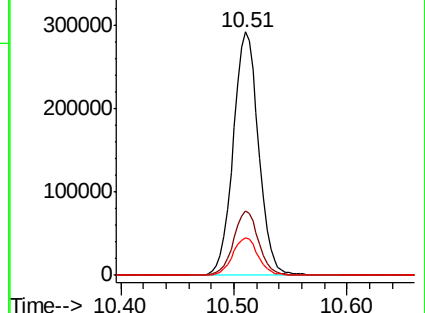
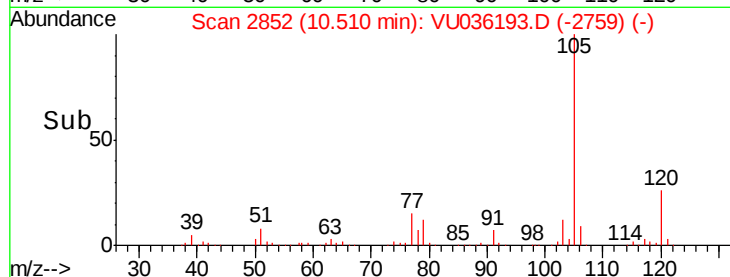
77 15.6 12.5 18.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.011 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

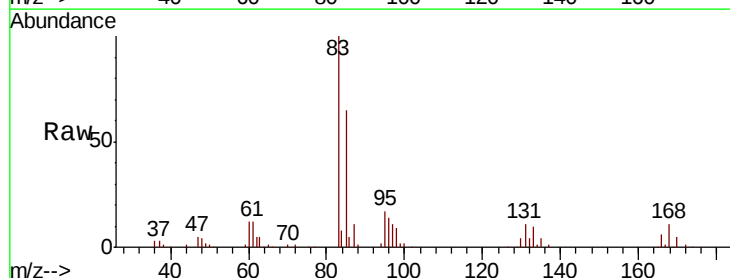
Tgt Ion: 83 Resp: 104860

Ion Ratio Lower Upper

83 100

85 65.2 45.6 84.8

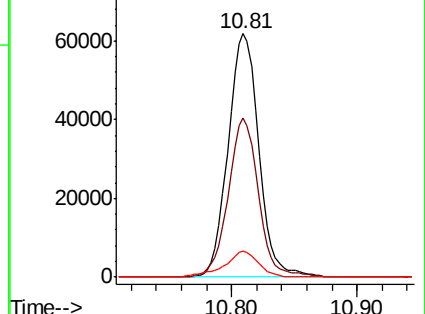
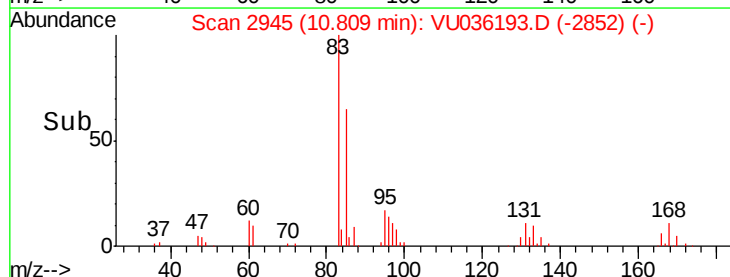
131 10.6 8.5 12.7

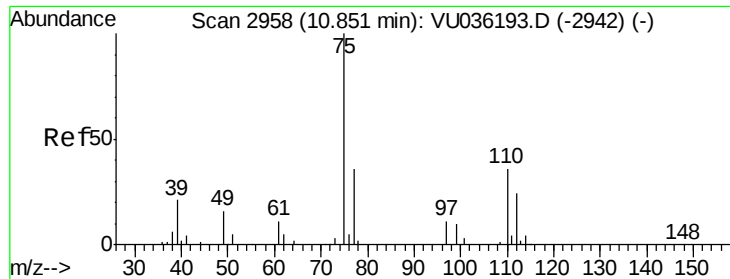


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.019 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

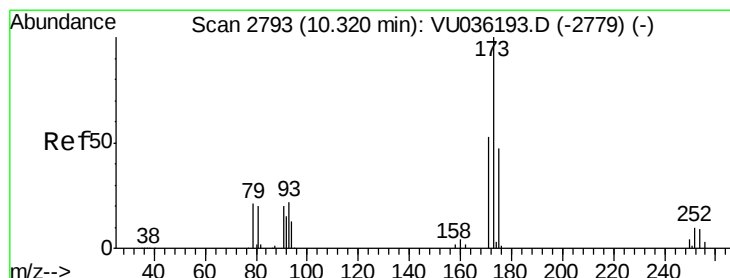
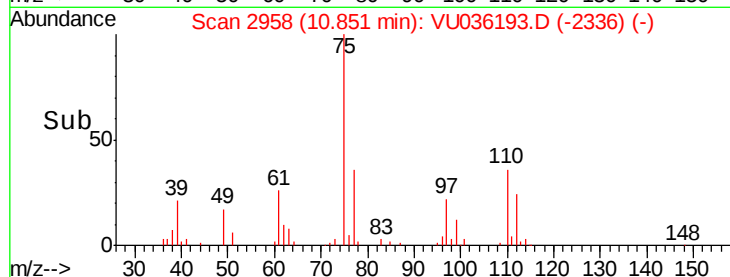
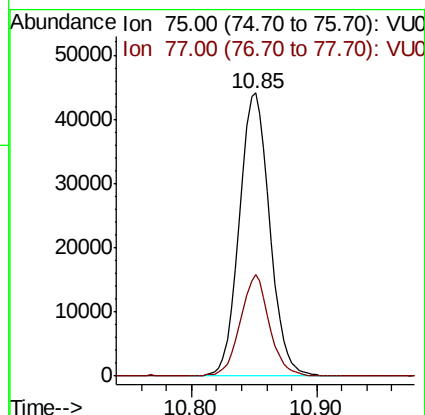
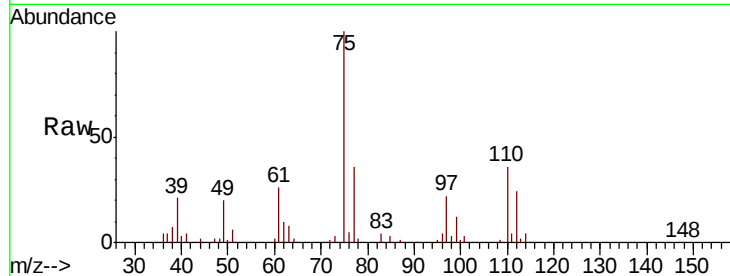
VSTD00503

Tot Ion: 75 Resp: 74427

Ion Ratio Lower Upper

75 100

77 34.0 27.2 40.8



#61

Bromoform

Concen: 4.261 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

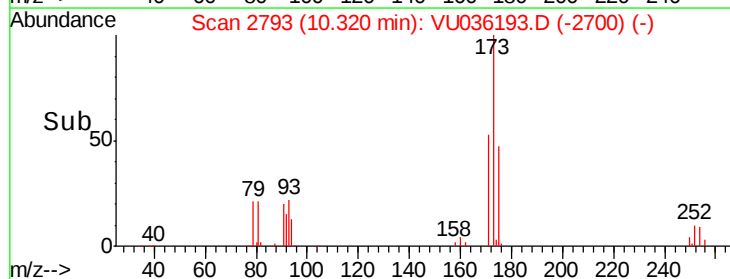
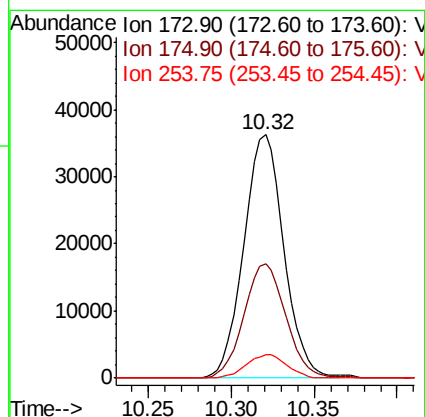
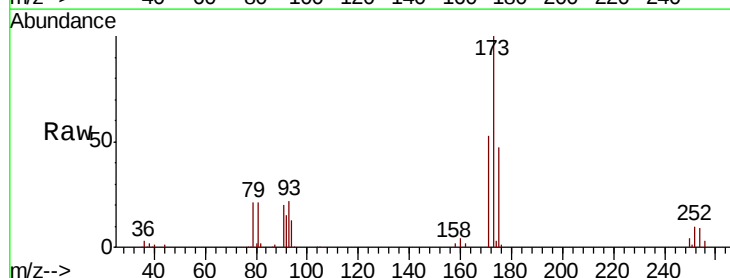
Tgt Ion: 173 Resp: 61230

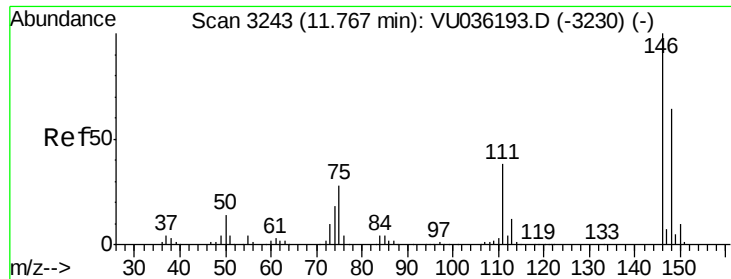
Ion Ratio Lower Upper

173 100

175 49.0 39.2 58.8

254 9.7 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 5.048 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

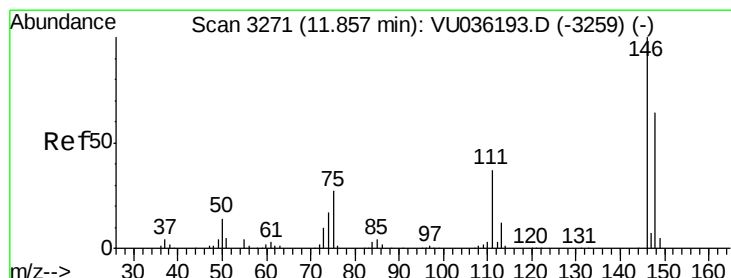
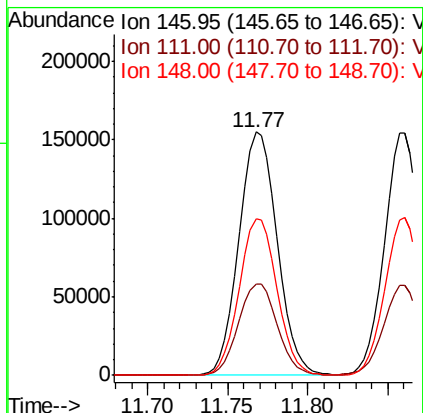
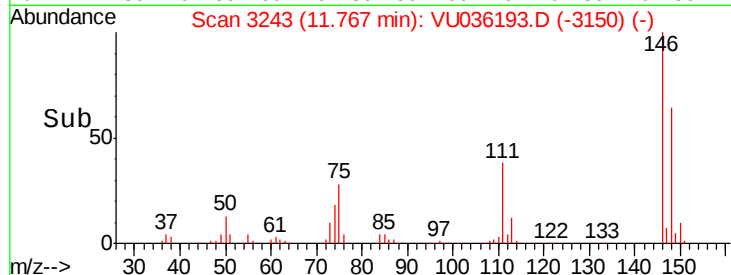
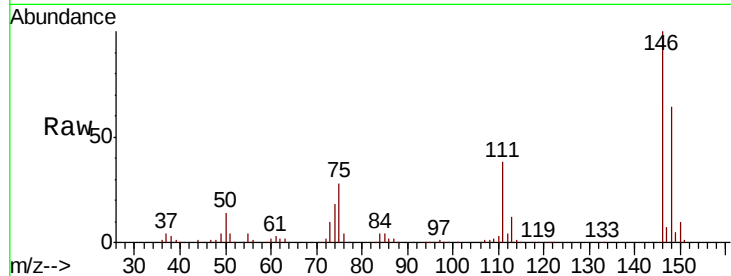
Tot Ion:146 Resp: 252643

Ion Ratio Lower Upper

146 100

111 37.6 26.3 48.9

148 64.5 45.1 83.9



#63

1,4-Dichlorobenzene

Concen: 5.059 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

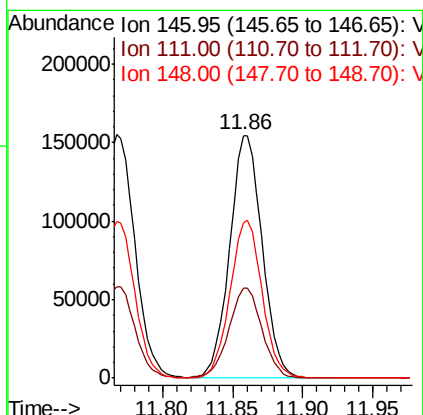
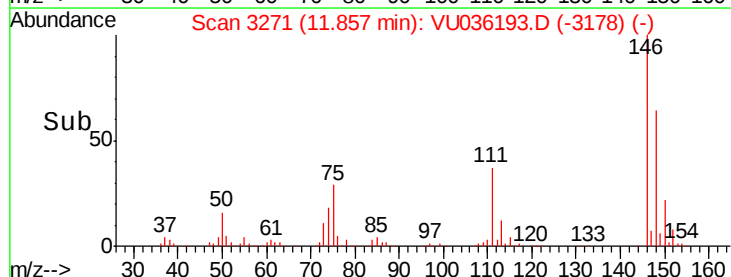
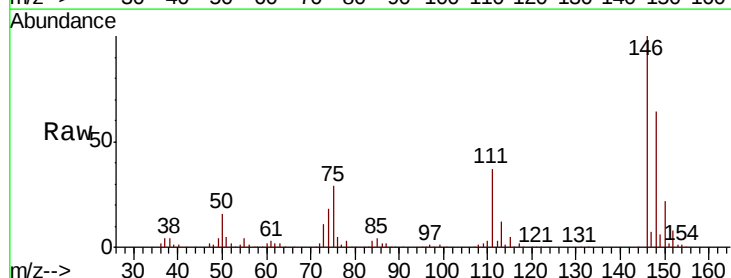
Tgt Ion:146 Resp: 249456

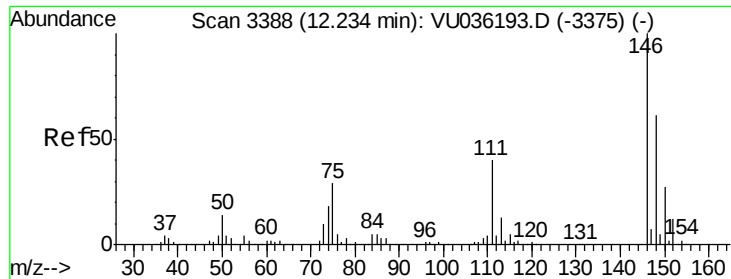
Ion Ratio Lower Upper

146 100

111 36.9 25.8 48.0

148 63.8 44.7 82.9





#65

1,2-Dichlorobenzene

Concen: 4.943 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00503

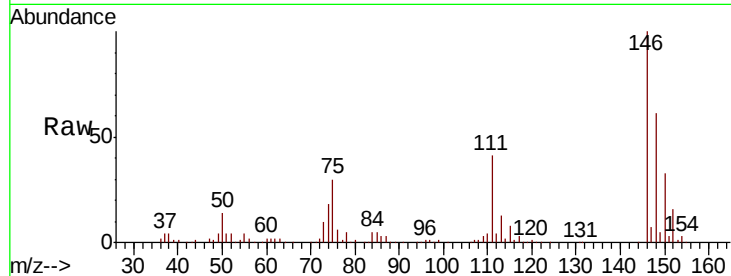
Tot Ion:146 Resp: 237375

Ion Ratio Lower Upper

146 100

111 40.6 32.5 48.7

148 61.5 49.2 73.8

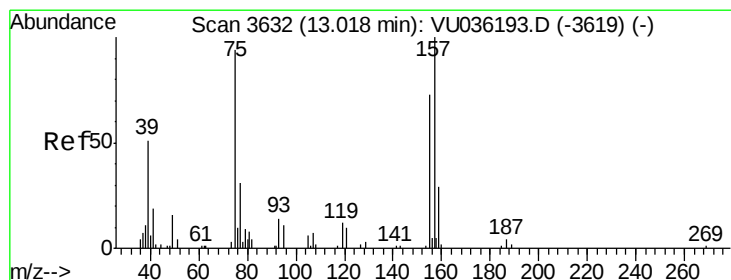
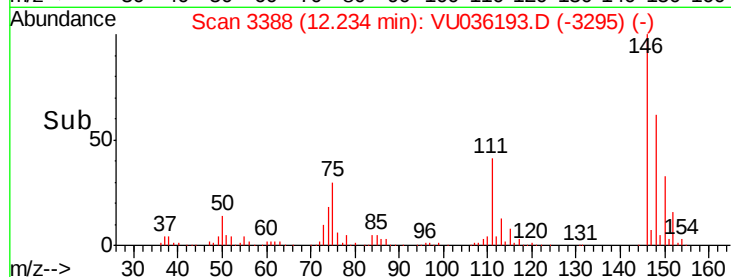
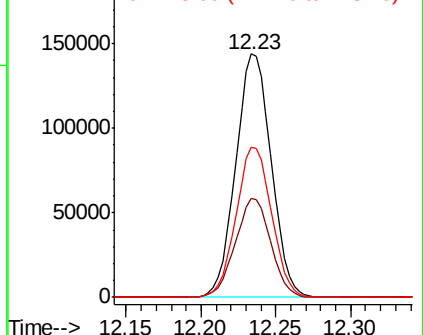


Abundance

Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.893 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

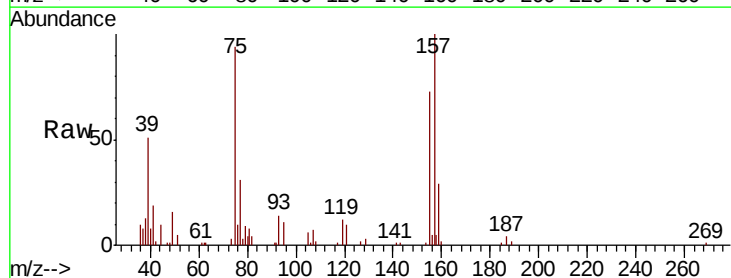
Tgt Ion: 75 Resp: 15219

Ion Ratio Lower Upper

75 100

155 77.4 61.9 92.9

157 106.1 84.9 127.3

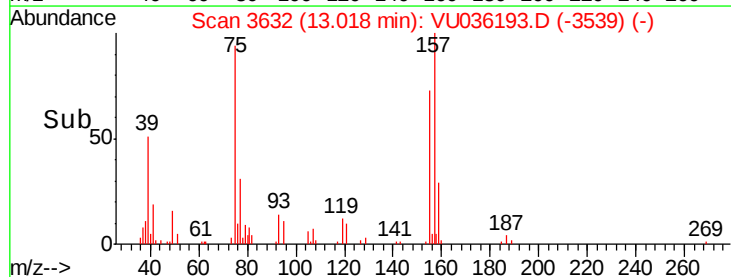
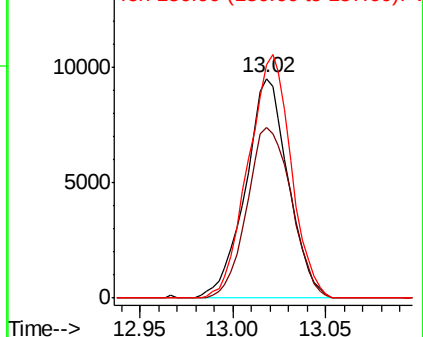


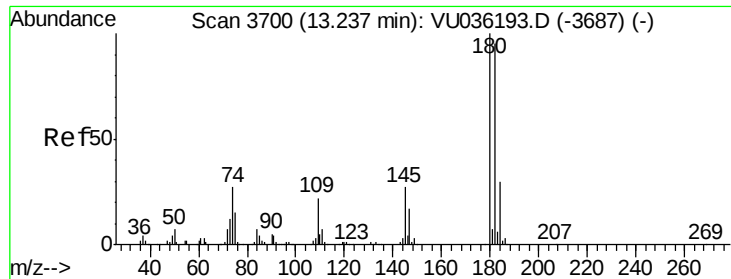
Abundance

Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

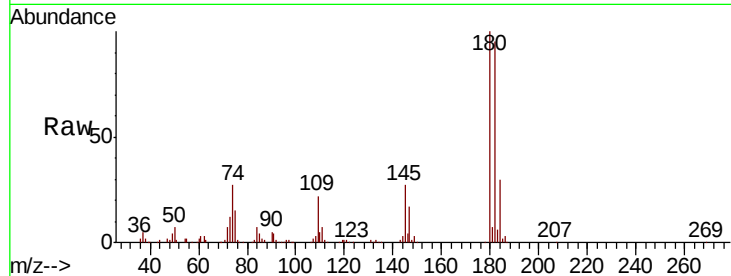




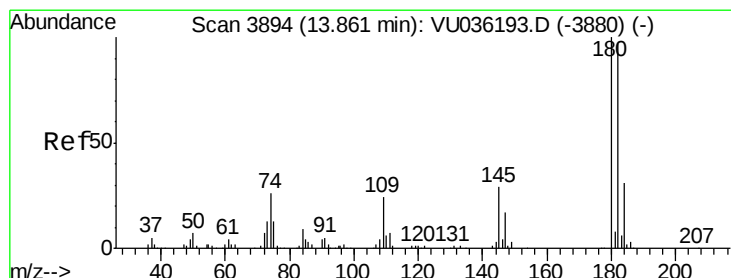
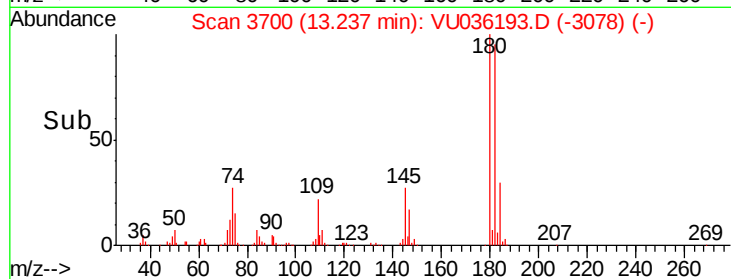
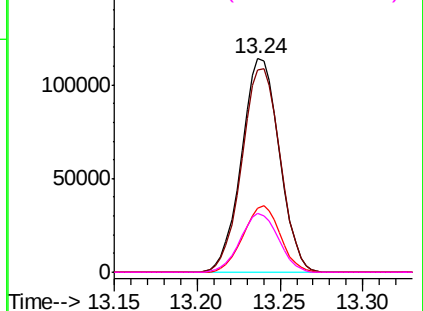
#67
 1,3,5-Trichlorobenzene
 Concen: 5.445 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00503

Tot Ion:180	Resp:	181105
Ion Ratio	Lower	Upper
180	100	
182	96.1	76.9 115.3
184	30.3	24.2 36.4
145	27.5	22.0 33.0

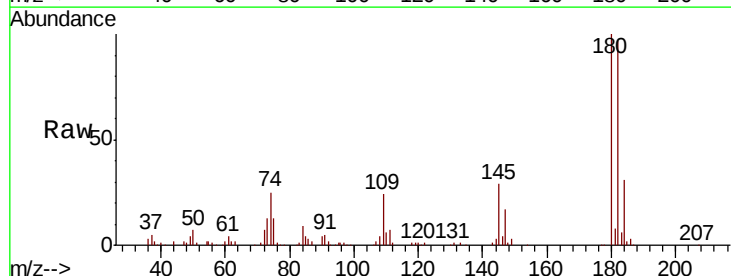


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

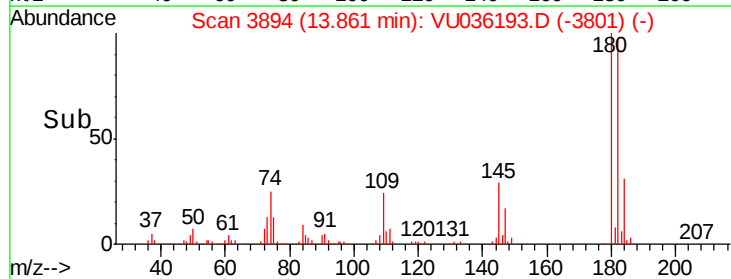
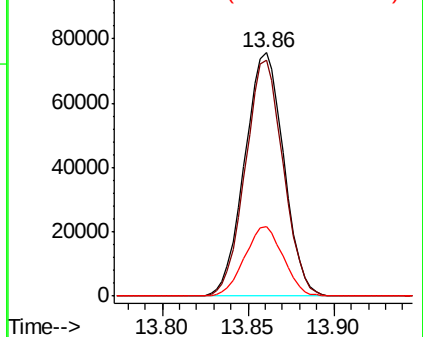


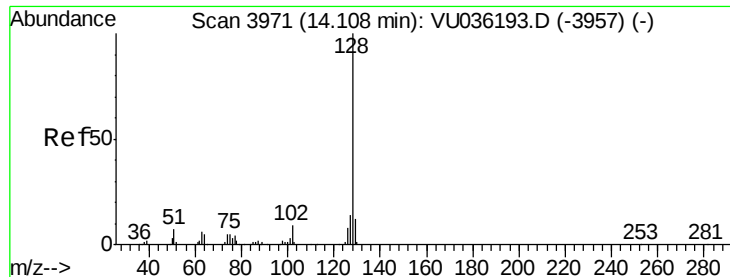
#68
 1,2,4-trichlorobenzene
 Concen: 6.434 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036193.D
 Acq: 13 Dec 2019 13:22

Tgt Ion:180	Resp:	119164
Ion Ratio	Lower	Upper
180	100	
182	94.1	75.3 112.9
145	28.4	22.7 34.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 6.756 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

Instrument :

MSVOA_U

ClientSampled :

VSTD00503

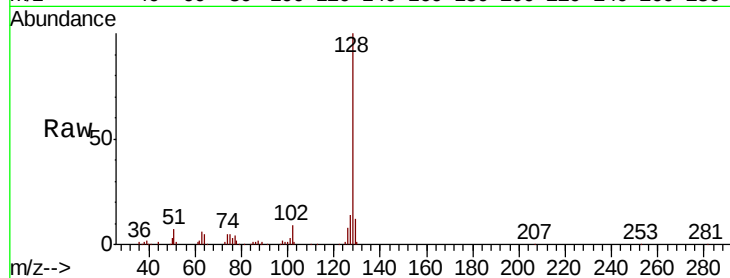
Tot Ion:128 Resp: 136856

Ion Ratio Lower Upper

128 100

129 10.5 8.4 12.6

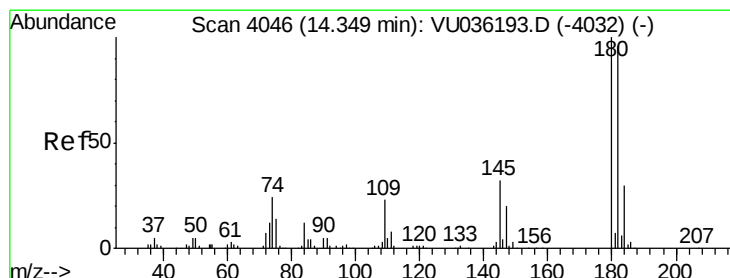
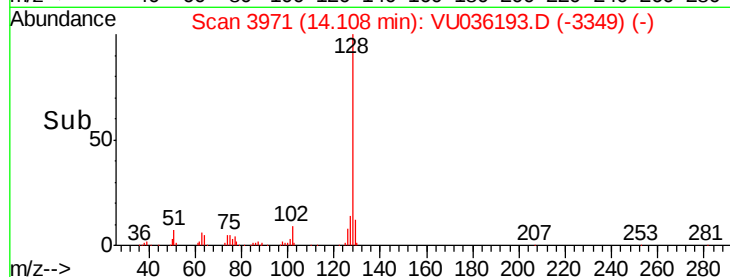
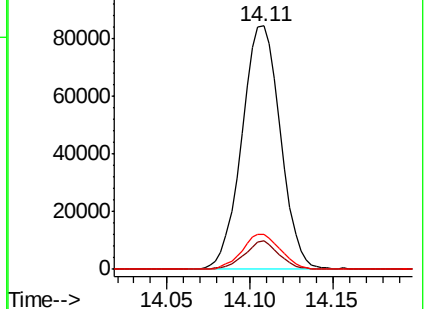
127 14.4 11.5 17.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 6.741 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036193.D

Acq: 13 Dec 2019 13:22

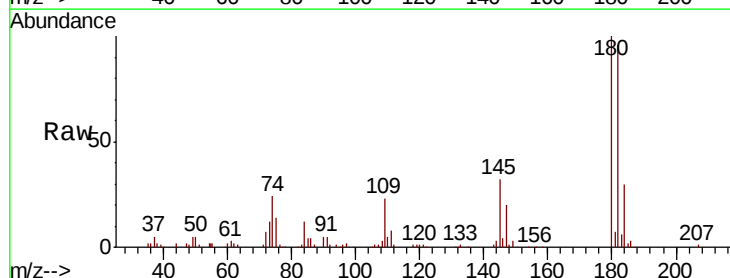
Tgt Ion:180 Resp: 116954

Ion Ratio Lower Upper

180 100

182 96.3 77.0 115.6

145 31.1 24.9 37.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

