

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121319\
 Data File : VU036194.D
 Acq On : 13 Dec 2019 13:47
 Operator : JC/MD
 Sample : VSTD01004
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01004

Quant Time: Dec 14 00:26:09 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	294882	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	304994	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	167391	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	256881	8.88	ug/L	0.00
7) Chloroethane-d5	1.93	69	227336	8.90	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	353815	9.13	ug/L	0.00
20) 2-Butanone-d5	4.69	46	494337	103.64	ug/L	0.00
24) Chloroform-d	5.11	84	406173	9.50	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.75	65	206491	9.47	ug/L	0.00
32) Benzene-d6	5.77	84	795270	9.97	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.73	67	242174	9.77	ug/L	0.00
41) Toluene-d8	7.93	98	771615	10.49	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	104708	10.01	ug/L	0.00
46) 2-Hexanone-d5	8.67	63	433594	113.24	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.78	84	216212	9.72	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	303551	9.66	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	295731	9.073 ug/L	99
3) Chloromethane	1.54	50	361180	8.580 ug/L	99
5) Vinyl chloride	1.62	62	356749	9.174 ug/L	97
6) Bromomethane	1.87	94	181866	7.813 ug/L	98
8) Chloroethane	1.95	64	214634	9.058 ug/L	99
9) Trichlorofluoromethane	2.16	101	444349	9.291 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	215682	9.224 ug/L	99
12) 1,1-Dichloroethene	2.60	96	196064	8.881 ug/L #	87
13) Acetone	2.68	43	336006	81.062 ug/L	96
14) Carbon disulfide	2.82	76	660775	9.038 ug/L	100
15) Methyl Acetate	3.00	43	78467	8.803 ug/L	99
16) Methylene chloride	3.08	84	229757	7.420 ug/L	97
17) Methyl tert-butyl Ether	3.41	73	451506	9.835 ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	212261	9.261 ug/L	97
19) 1,1-Dichloroethane	3.92	63	386665	9.179 ug/L	99
21) 2-Butanone	4.77	43	540443	98.059 ug/L	96
22) cis-1,2-Dichloroethene	4.72	96	233194	9.897 ug/L	98
23) Bromochloromethane	5.02	128	110309	9.407 ug/L	97
25) Chloroform	5.14	83	413454	9.298 ug/L	95
27) 1,2-Dichloroethane	5.84	62	258563	9.880 ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	350505	9.445 ug/L	99
30) Cyclohexane	5.43	56	329743	10.468 ug/L	98
31) Carbon tetrachloride	5.57	117	321959	9.712 ug/L	99
33) Benzene	5.82	78	915754	9.877 ug/L	100
34) Trichloroethene	6.58	95	232590	9.763 ug/L	98
35) Methylcyclohexane	6.80	83	368784	10.894 ug/L	97
37) 1,2-Dichloropropane	6.83	63	228052	9.579 ug/L	98
38) Bromodichloromethane	7.14	83	293274	9.583 ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	333150	10.499 ug/L	97
40) 4-Methyl-2-pentanone	7.83	43	1288413	106.176 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

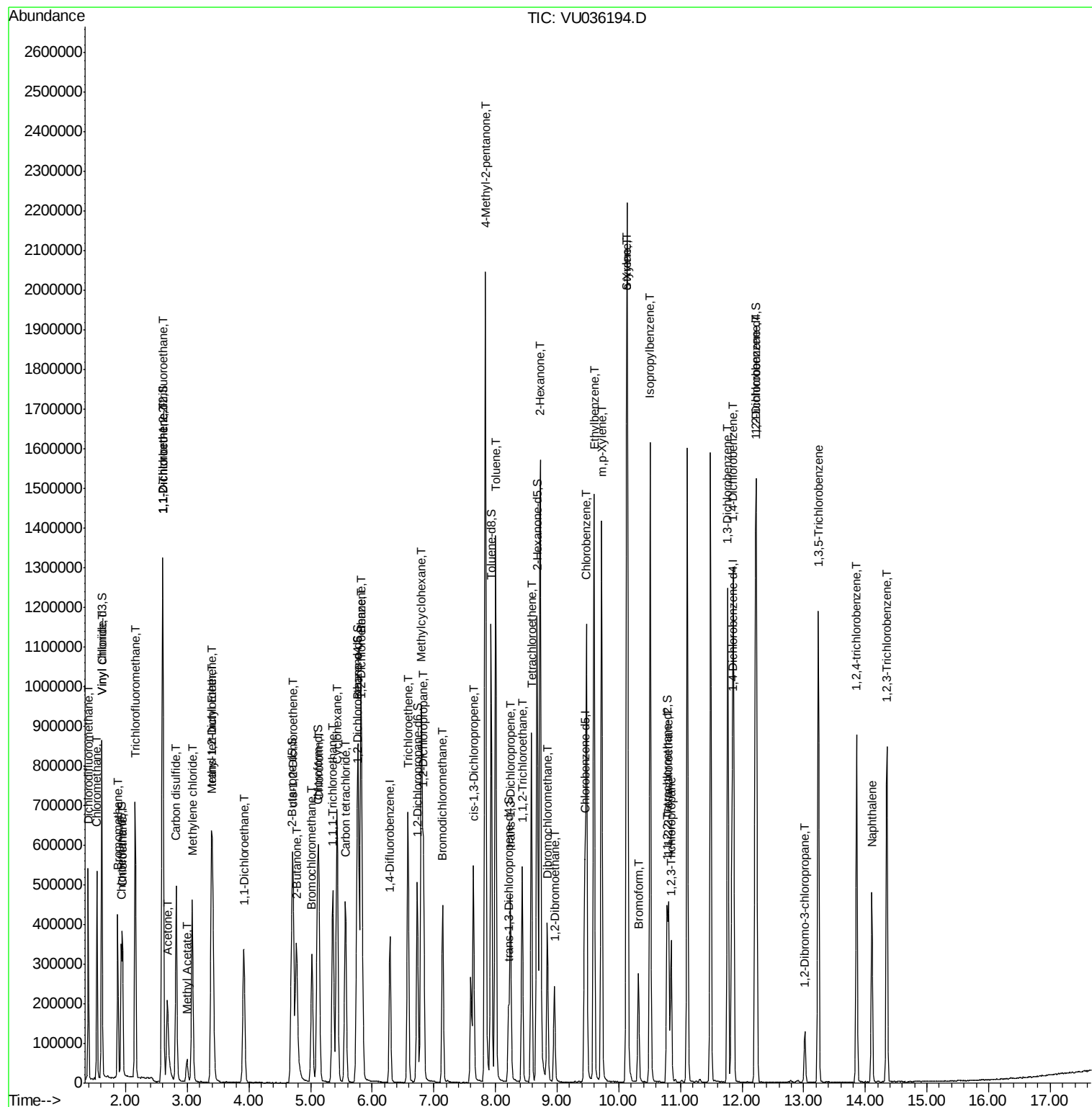
42) Toluene	8.00	91	1017006	10.384	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	272864	10.198	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	172189	9.810	ug/L	91
47) Tetrachloroethene	8.58	164	203805	9.807	ug/L	98
48) 2-Hexanone	8.73	43	967744	108.262	ug/L	98
49) Dibromochloromethane	8.84	129	211801	9.641	ug/L	99
50) 1,2-Dibromoethane	8.96	107	160747	9.739	ug/L	98
51) Chlorobenzene	9.48	112	625231	9.746	ug/L	99
52) Ethylbenzene	9.60	91	1047819	10.903	ug/L	99
53) m,p-Xylene	9.72	106	417847	11.060	ug/L	99
54) o-Xylene	10.13	106	398987	11.069	ug/L	95
55) Styrene	10.14	104	698966	10.888	ug/L	100
56) Isopropylbenzene	10.51	105	1025715	11.154	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	216096	9.739	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	151042	9.606	ug/L	98
61) Bromoform	10.32	173	127954	8.150	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	530894	9.709	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	525476	9.754	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	498425	9.500	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	32748	9.637	ug/L	93
67) 1,3,5-Trichlorobenzene	13.24	180	392383	10.799	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	284999	14.085	ug/L	98
69) Naphthalene	14.11	128	388053	17.533	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	279384	14.740	ug/L	98

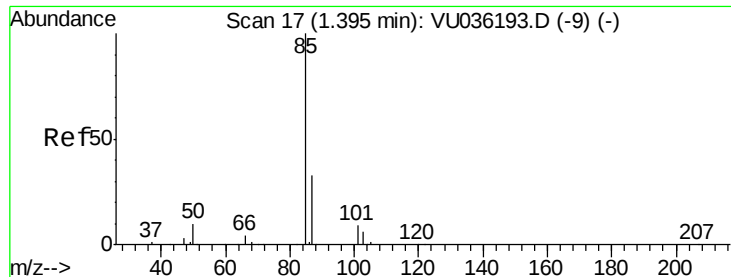
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 9.073 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

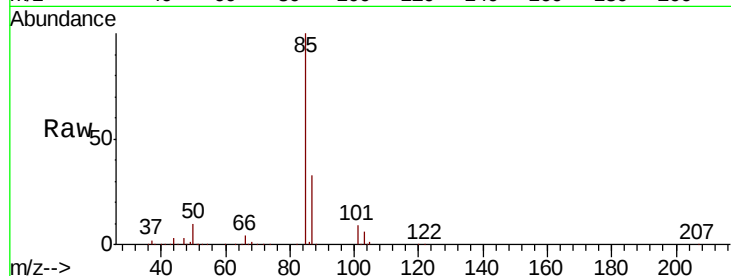
VSTD01004

Tot Ion: 85 Resp: 295731

Ion Ratio Lower Upper

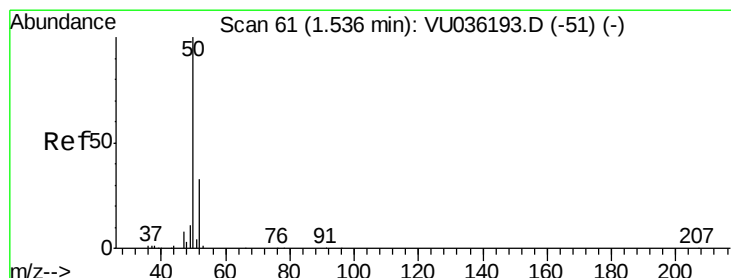
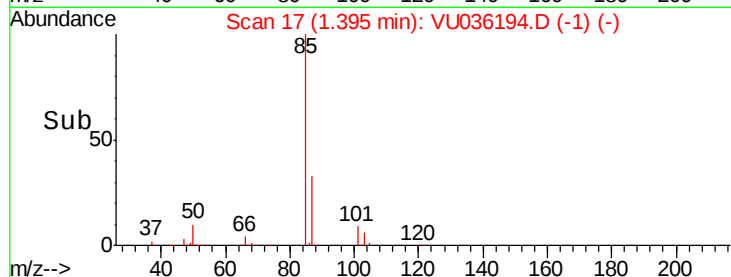
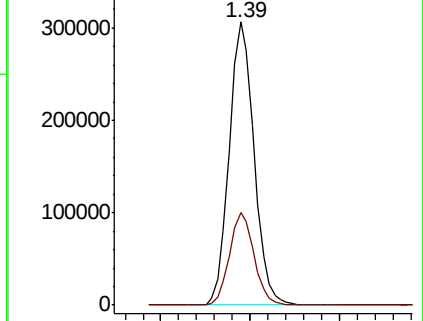
85 100

87 32.3 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU036194.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU036194.D (-1) (-)



#3

Chloromethane

Concen: 8.580 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036194.D

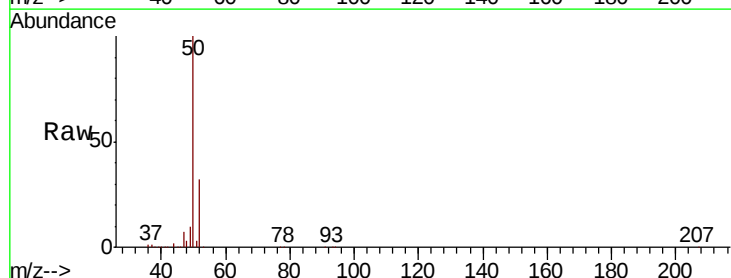
Acq: 13 Dec 2019 13:47

Tgt Ion: 50 Resp: 361180

Ion Ratio Lower Upper

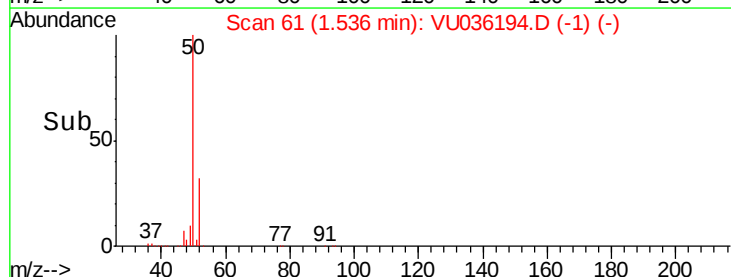
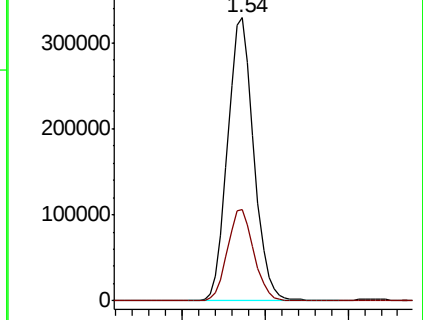
50 100

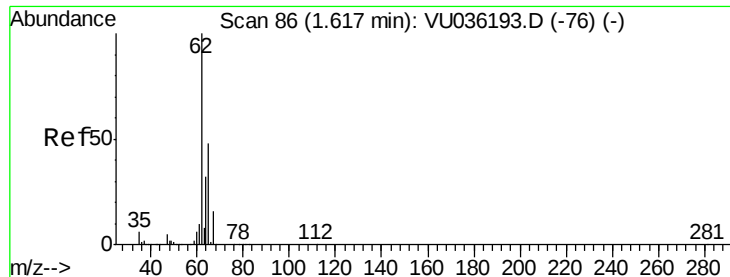
52 32.3 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036194.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU036194.D (-1) (-)





#5

Vinyl chloride

Concen: 9.174 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

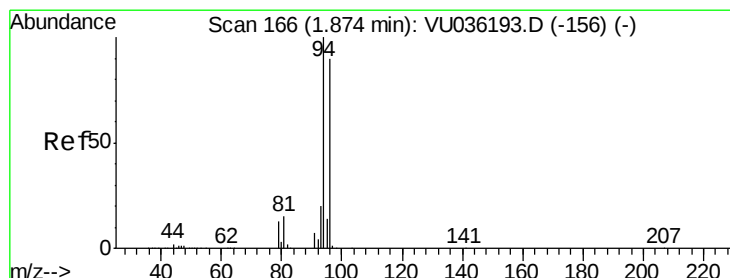
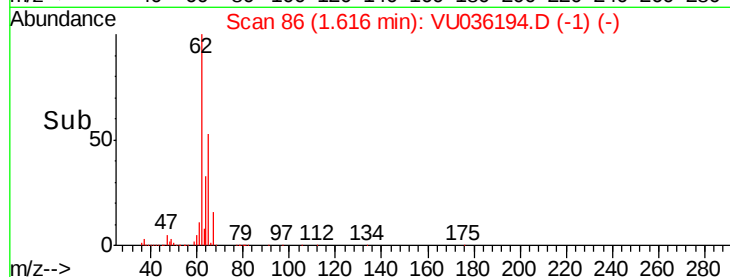
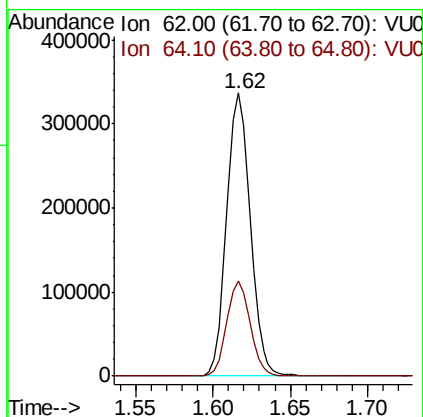
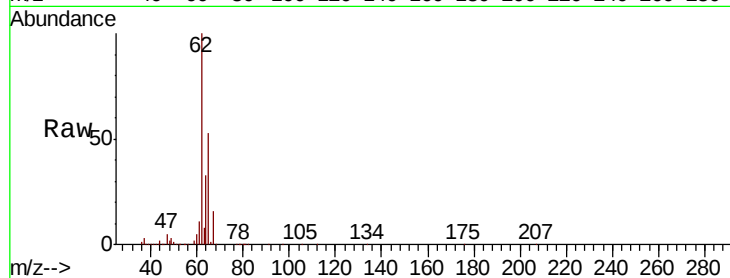
VSTD01004

Tot Ion: 62 Resp: 356749

Ion Ratio Lower Upper

62 100

64 33.5 22.4 41.6



#6

Bromomethane

Concen: 7.813 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU036194.D

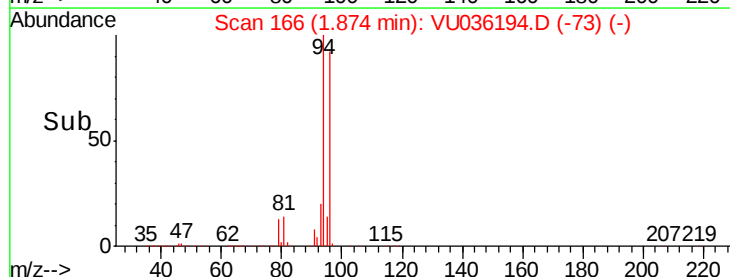
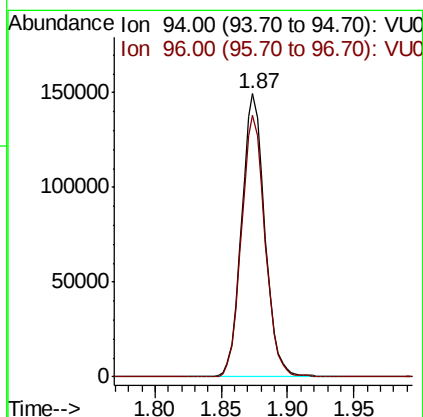
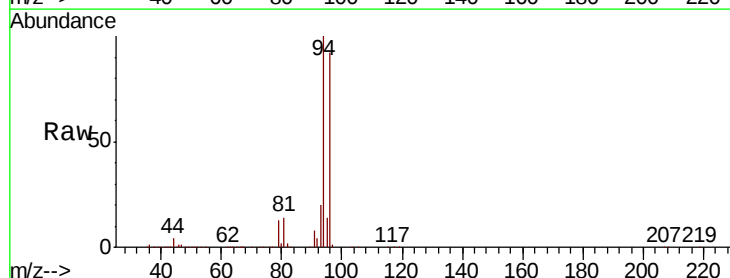
Acq: 13 Dec 2019 13:47

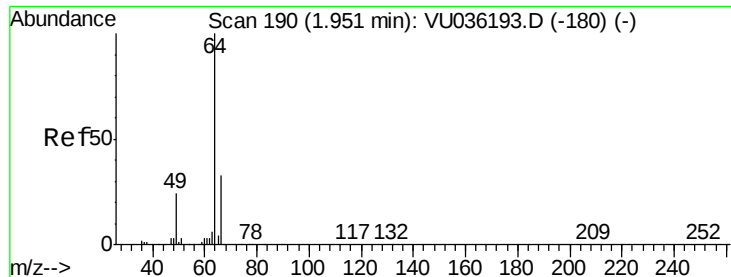
Tgt Ion: 94 Resp: 181866

Ion Ratio Lower Upper

94 100

96 92.2 62.9 116.9





#8

Chloroethane

Concen: 9.058 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

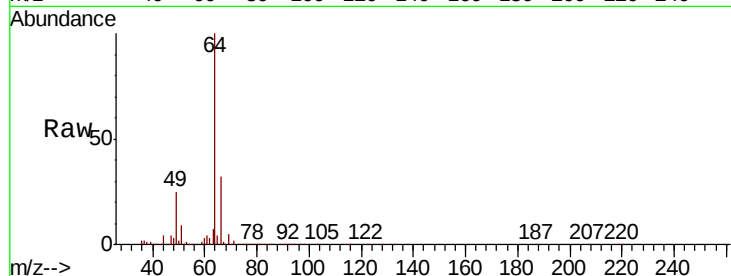
VSTD01004

Tot Ion: 64 Resp: 214634

Ion Ratio Lower Upper

64 100

66 32.3 23.1 42.9



Abundance Ion 64.10 (63.80 to 64.80): VU036193.D (-180) (-)

Ion 66.05 (65.75 to 66.75): VU036193.D (-180) (-)

1.95

200000

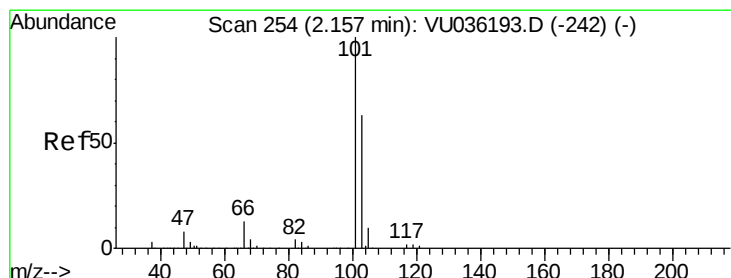
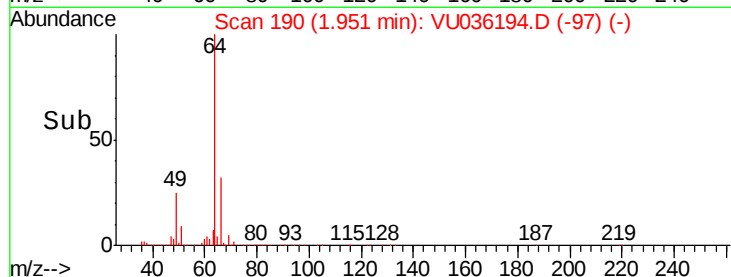
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 9.291 ug/L

RT: 2.16 min Scan# 254

Delta R.T. -0.00 min

Lab File: VU036194.D

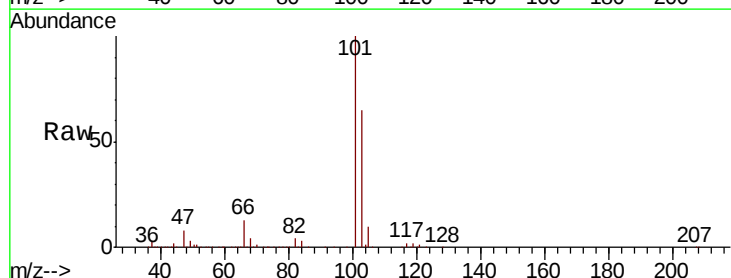
Acq: 13 Dec 2019 13:47

Tgt Ion: 101 Resp: 444349

Ion Ratio Lower Upper

101 100

103 65.5 50.4 75.6



Abundance Ion 101.00 (100.70 to 101.70): VU036193.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU036193.D (-242) (-)

2.16

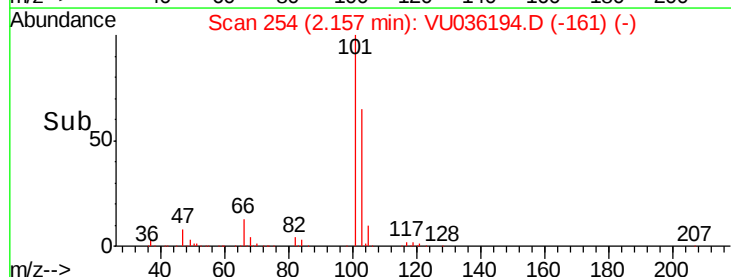
300000

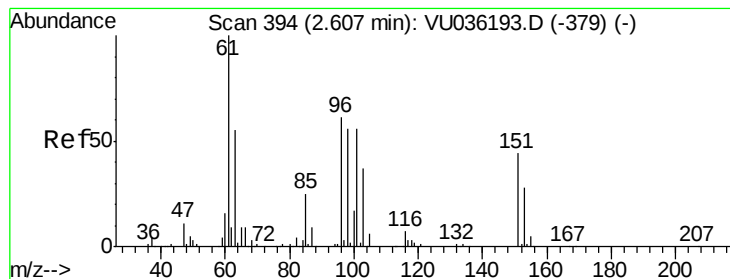
200000

100000

0

Time-->





#10

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

Concen: 9.224 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD01004

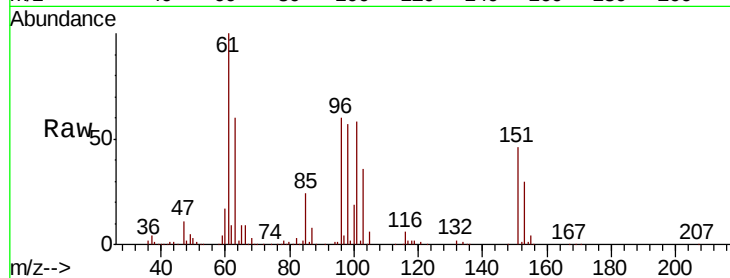
Tot Ion:101 Resp: 215682

Ion Ratio Lower Upper

101 100

85 42.6 35.0 52.6

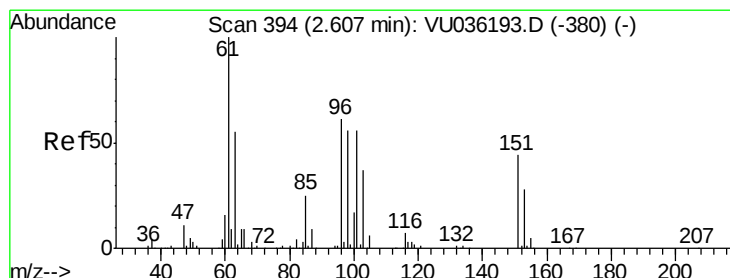
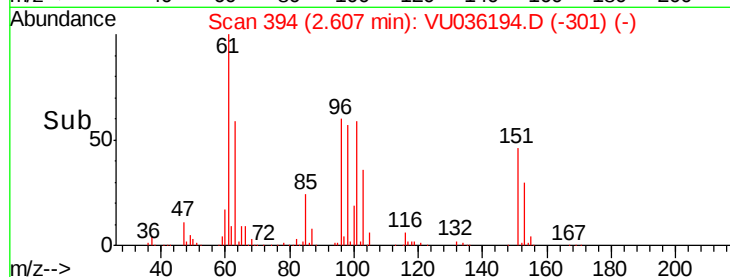
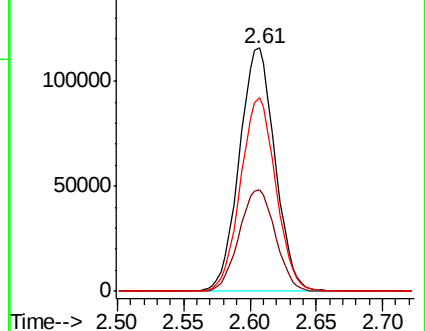
151 79.0 63.9 95.9



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: 8.881 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

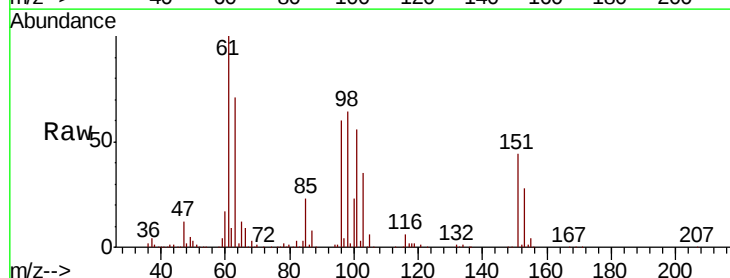
Tgt Ion: 96 Resp: 196064

Ion Ratio Lower Upper

96 100

61 167.6 114.0 211.8

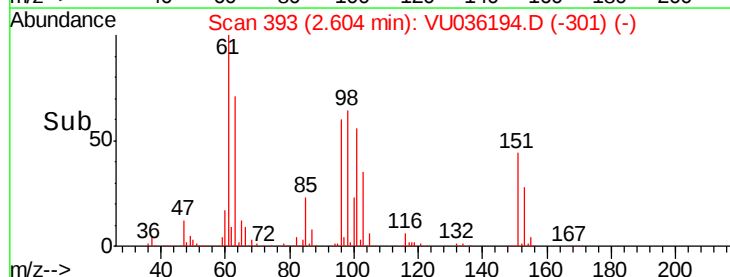
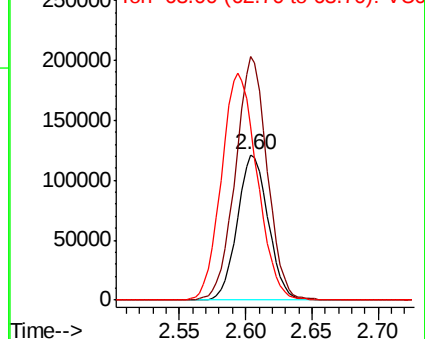
63 119.2 63.6 118.0#

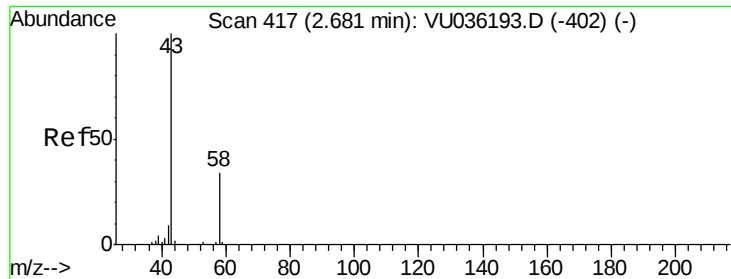


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 81.062 ug/L

RT: 2.68 min Scan# 416

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampled :

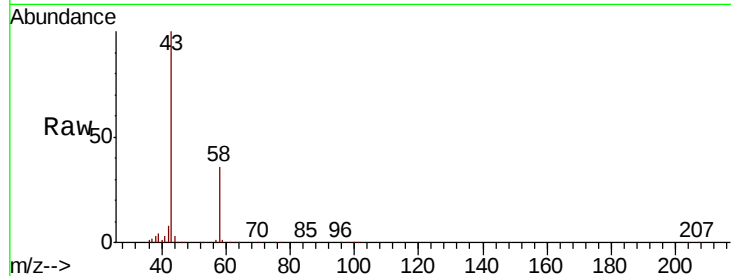
VSTD01004

Tot Ion: 43 Resp: 336006

Ion Ratio Lower Upper

43 100

58 36.1 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) (-)

2.68

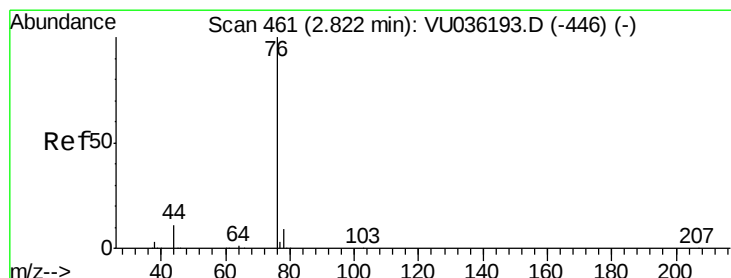
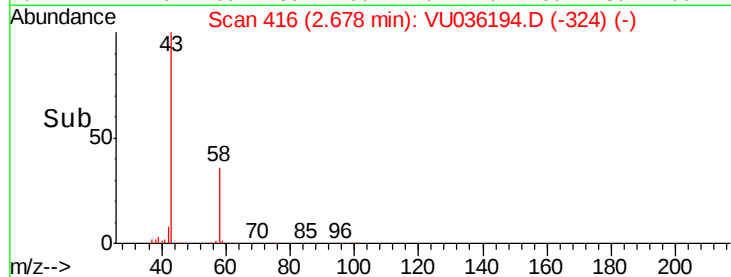
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 9.038 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036194.D

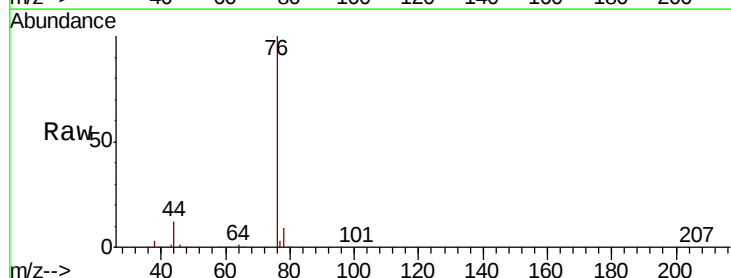
Acq: 13 Dec 2019 13:47

Tgt Ion: 76 Resp: 660775

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) (-)

2.82

400000

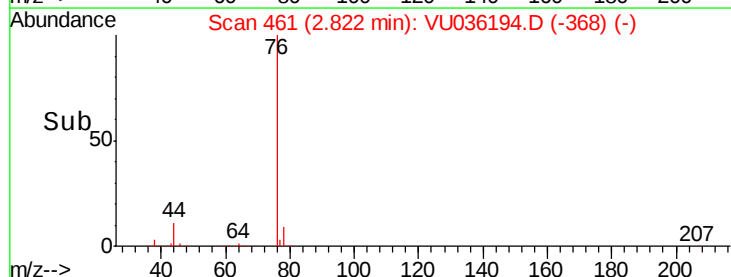
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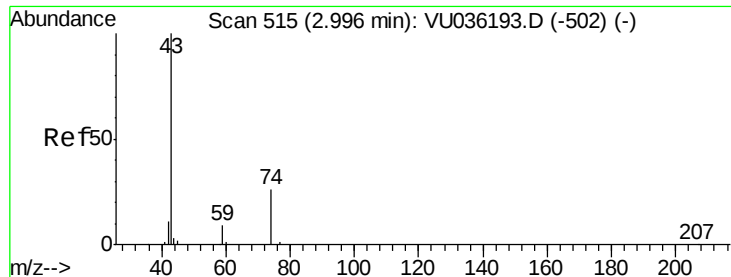
200000

100000

0

Time-->





#15

Methvl Acetate

Concen: 8.803 ug/L

RT: 3.00 min Scan# 515

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

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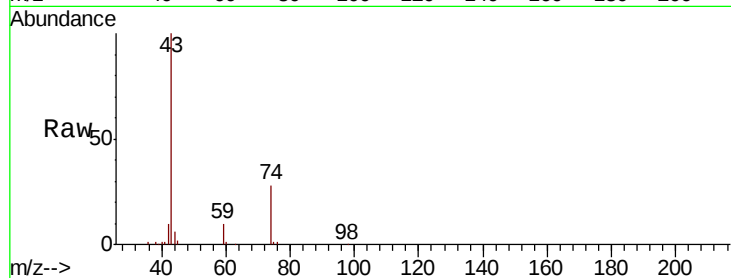
VSTD01004

Tot Ion: 43 Resp: 78467

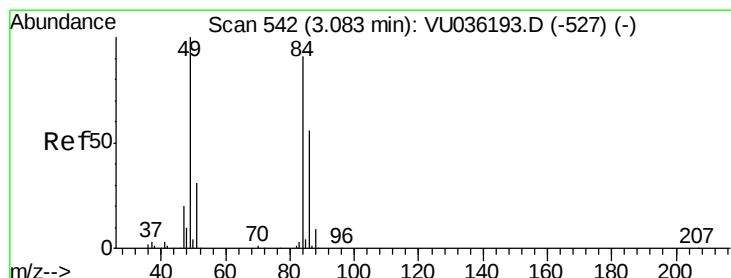
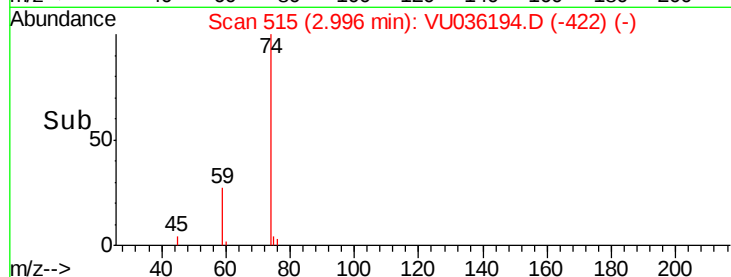
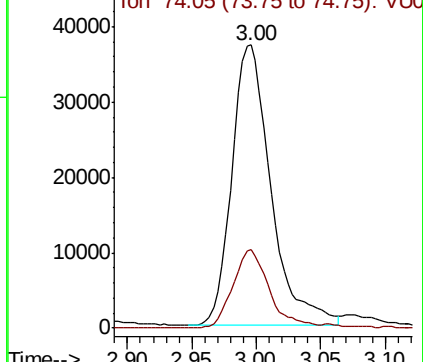
Ion Ratio Lower Upper

43 100

74 26.3 20.8 31.2



Abundance Ion 43.05 (42.75 to 43.75): VU036194.D (-422) (-)



#16

Methylene chloride

Concen: 7.420 ug/L

RT: 3.08 min Scan# 542

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

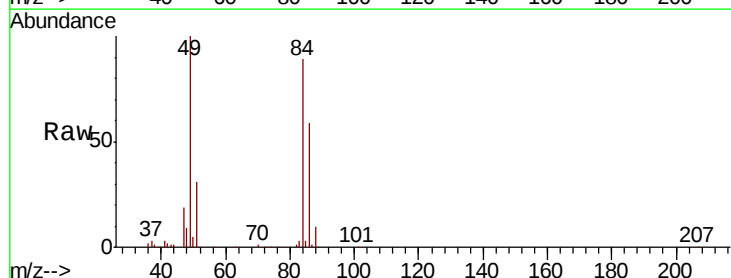
Tgt Ion: 84 Resp: 229757

Ion Ratio Lower Upper

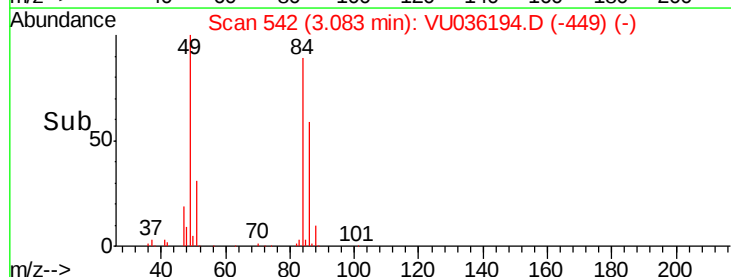
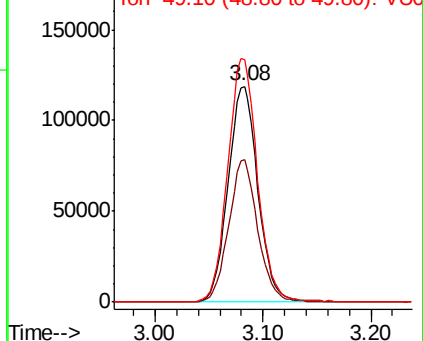
84 100

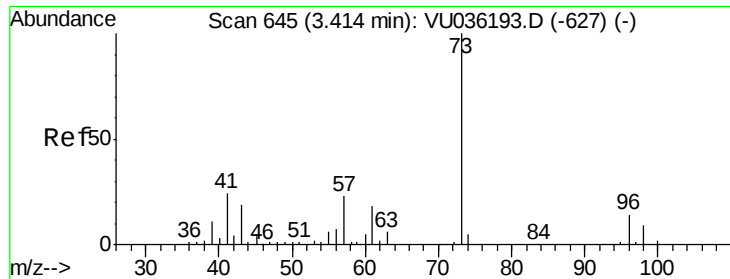
86 66.0 43.0 79.8

49 112.1 77.3 143.5



Abundance Ion 84.05 (83.75 to 84.75): VU036194.D (-449) (-)

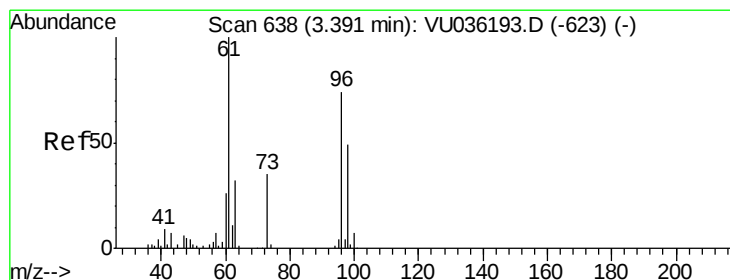
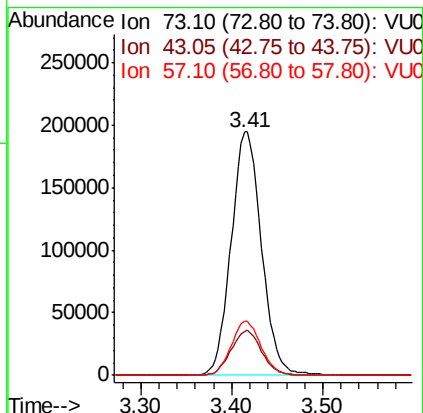
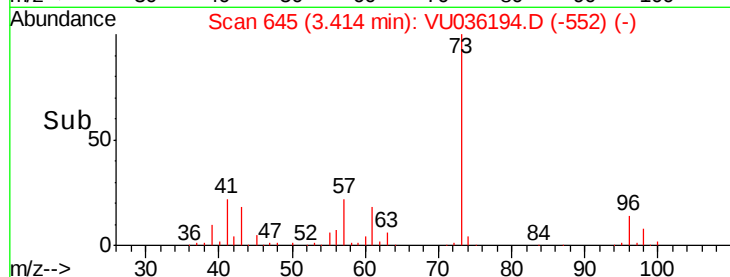
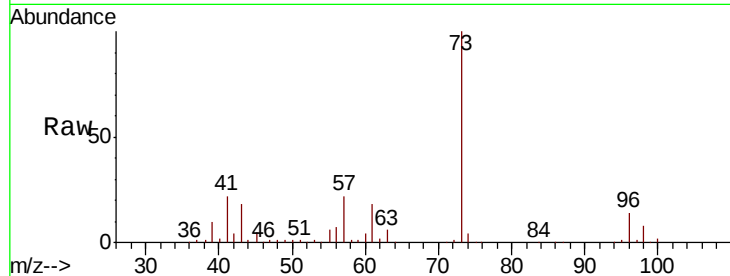




#17
Methvl tert-butvl Ether
Concen: 9.835 ug/L
RT: 3.41 min Scan# 645
Delta R.T. -0.00 min
Lab File: VU036194.D
Acq: 13 Dec 2019 13:47

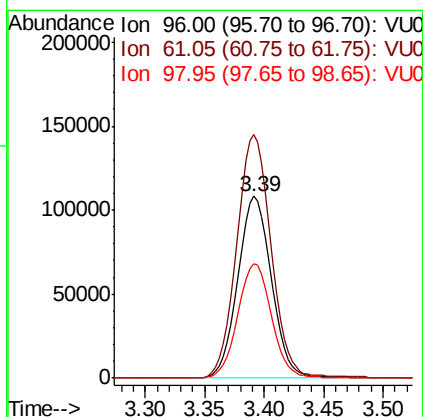
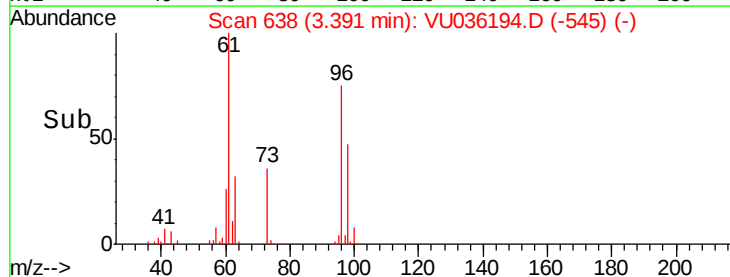
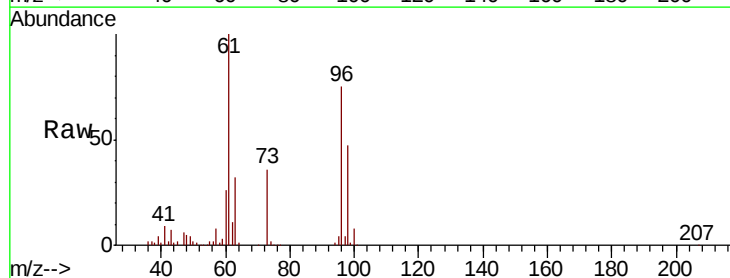
Instrument :
MSVOA_U
ClientSampleId :
VSTD01004

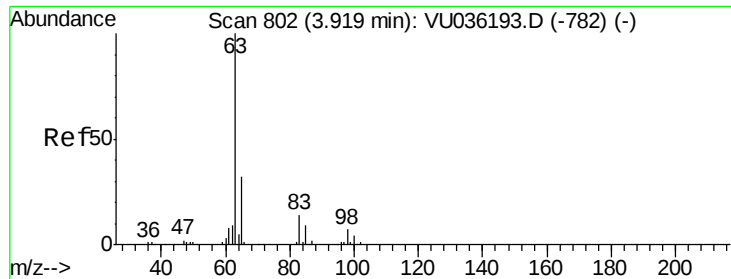
Tot Ion: 73 Resp: 451506
Ion Ratio Lower Upper
73 100
43 18.4 15.3 22.9
57 21.9 18.2 27.2



#18
trans-1,2-Dichloroethene
Concen: 9.261 ug/L
RT: 3.39 min Scan# 638
Delta R.T. -0.00 min
Lab File: VU036194.D
Acq: 13 Dec 2019 13:47

Tgt Ion: 96 Resp: 212261
Ion Ratio Lower Upper
96 100
61 133.7 94.8 176.2
98 62.5 46.8 86.8

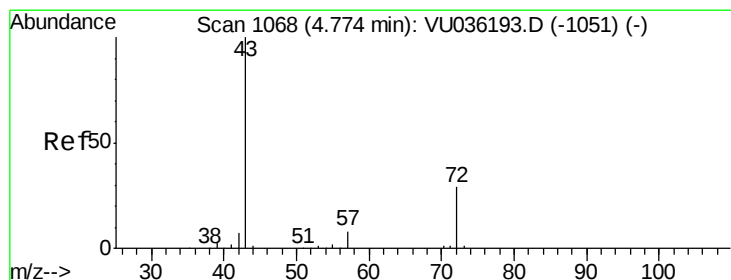
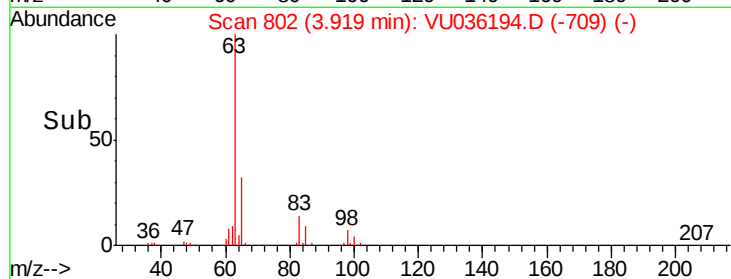
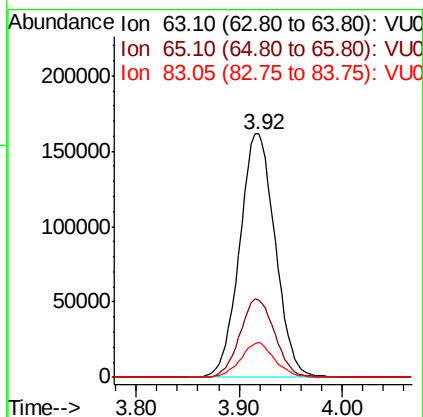
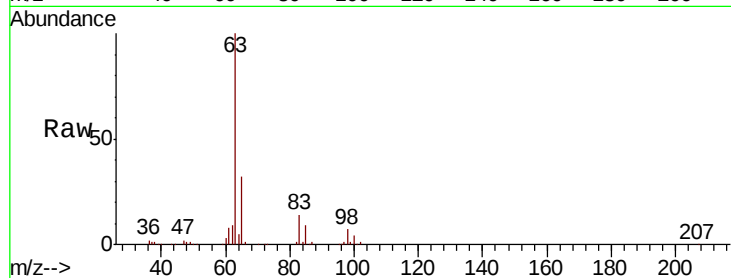




#19
 1,1-Dichloroethane
 Concen: 9.179 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

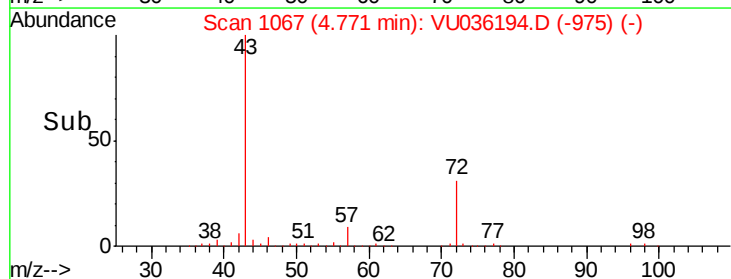
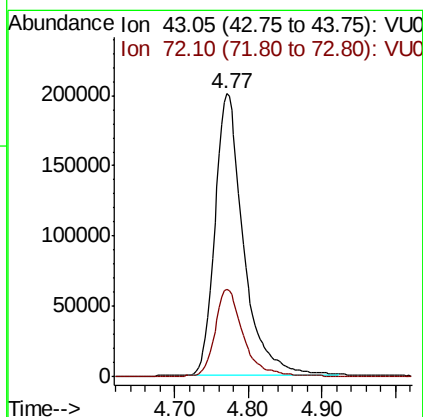
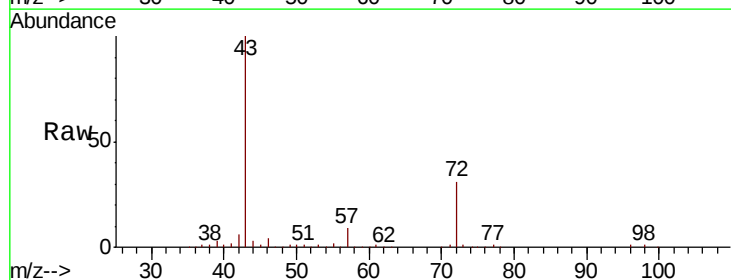
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01004

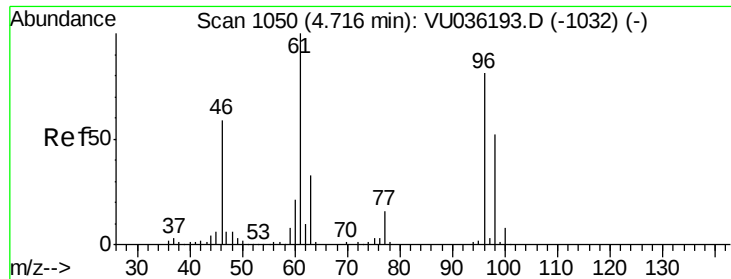
Tot Ion: 63 Resp: 386665
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.6 42.0
 83 14.1 9.7 18.1



#21
 2-Butanone
 Concen: 98.059 ug/L
 RT: 4.77 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Tgt Ion: 43 Resp: 540443
 Ion Ratio Lower Upper
 43 100
 72 31.2 14.4 43.4

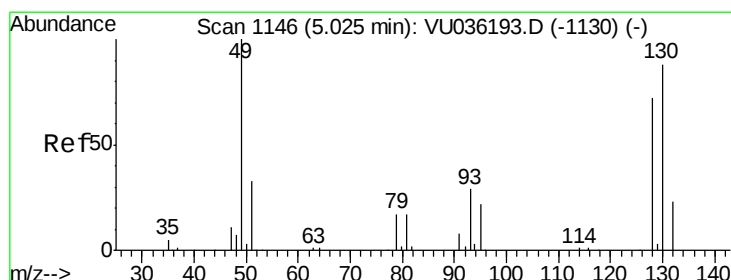
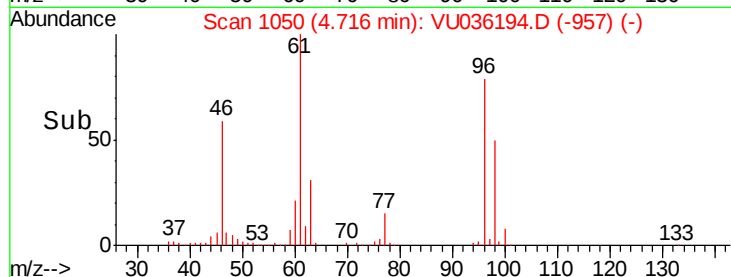
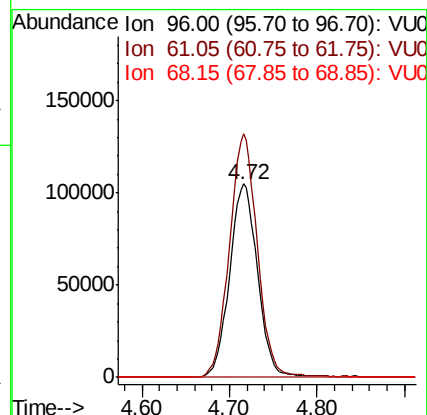
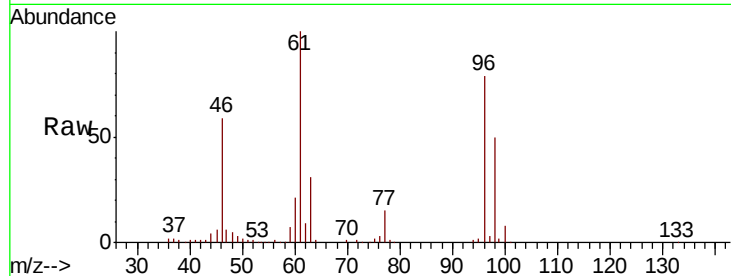




#22
 cis-1,2-Dichloroethene
 Concen: 9.897 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

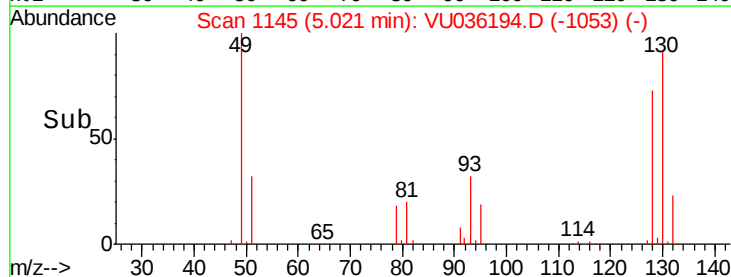
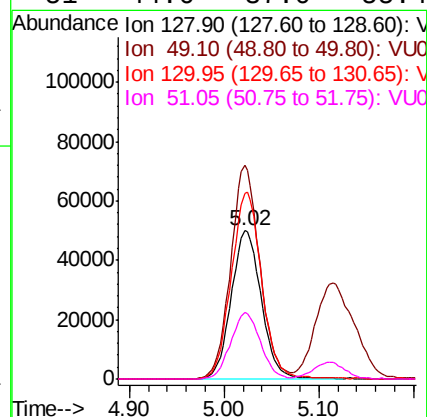
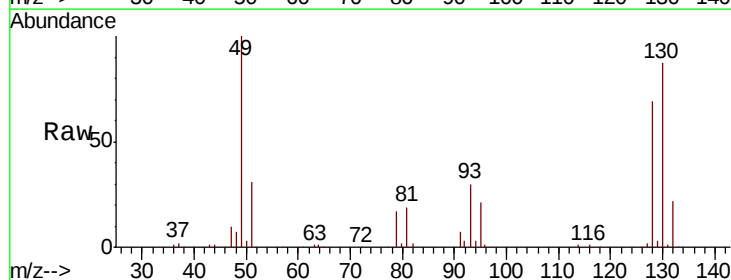
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01004

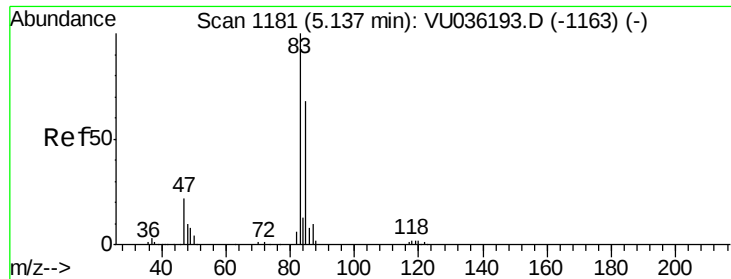
Tot Ion: 96 Resp: 233194
 Ion Ratio Lower Upper
 96 100
 61 125.8 86.7 161.1
 68 0.0 0.0 0.0



#23
 Bromochloromethane
 Concen: 9.407 ug/L
 RT: 5.02 min Scan# 1145
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Tgt Ion: 128 Resp: 110309
 Ion Ratio Lower Upper
 128 100
 49 144.2 97.6 181.4
 130 125.2 85.9 159.5
 51 44.6 37.0 55.4

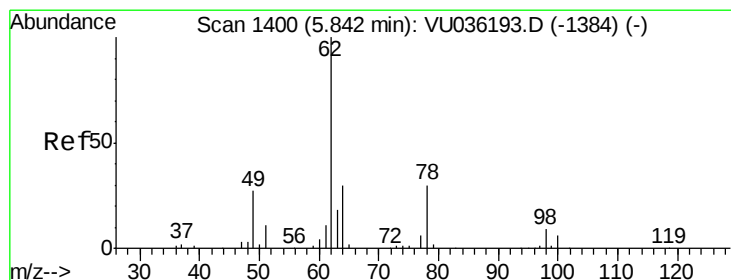
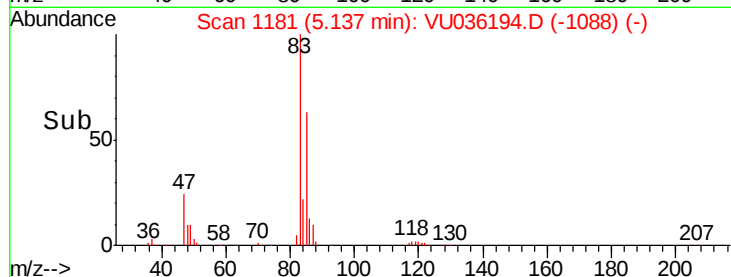
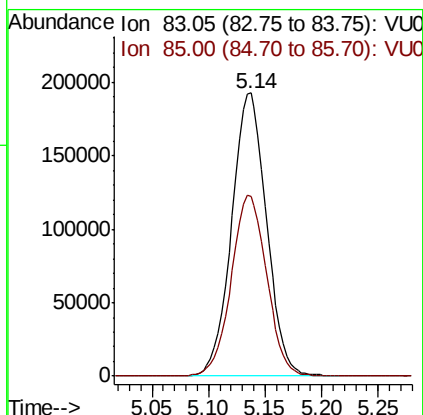
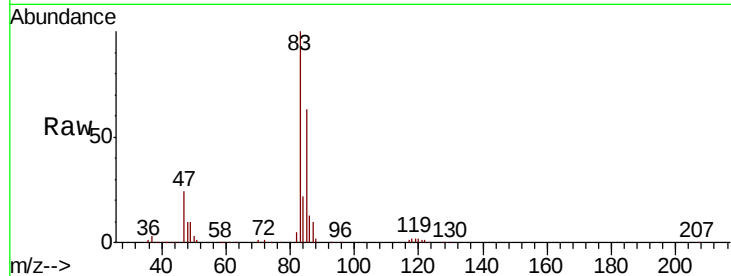




#25
Chloroform
Concen: 9.298 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU036194.D
Acq: 13 Dec 2019 13:47

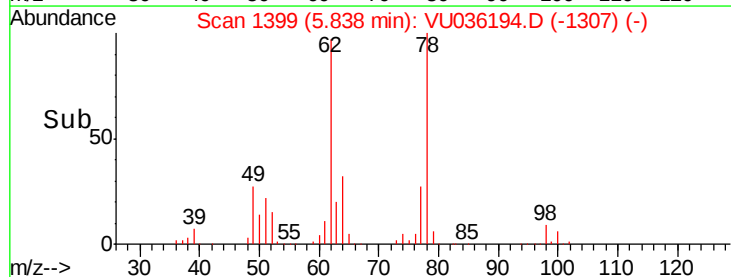
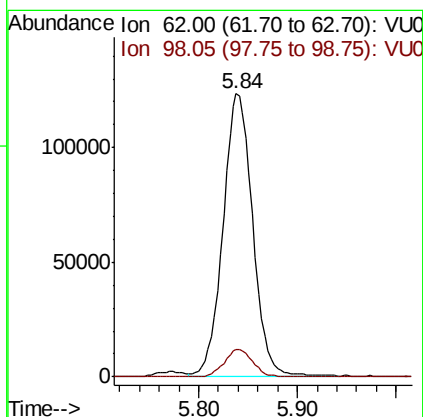
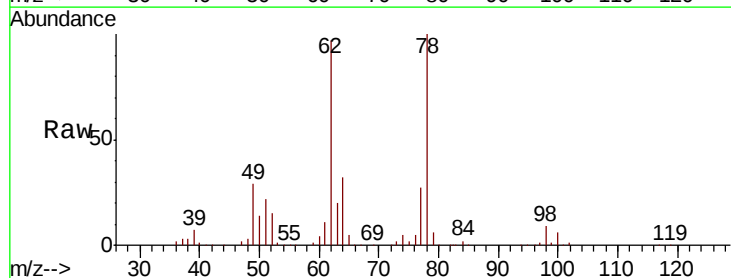
Instrument :
MSVOA_U
ClientSampleId :
VSTD01004

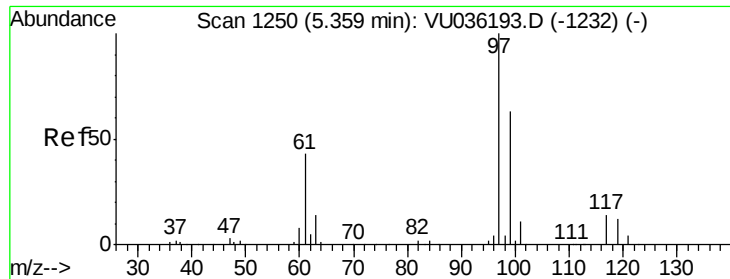
Tot Ion: 83 Resp: 413454
Ion Ratio Lower Upper
83 100
85 63.4 47.5 88.1



#27
1,2-Dichloroethane
Concen: 9.880 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU036194.D
Acq: 13 Dec 2019 13:47

Tgt Ion: 62 Resp: 258563
Ion Ratio Lower Upper
62 100
98 9.8 7.3 10.9

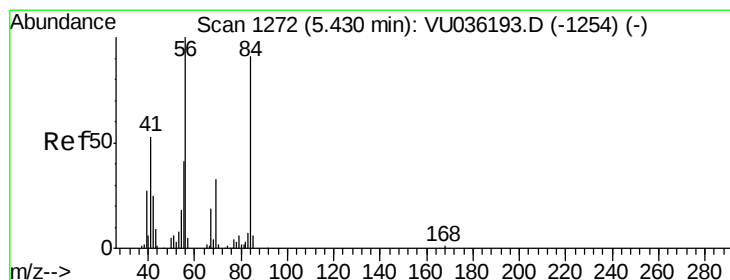
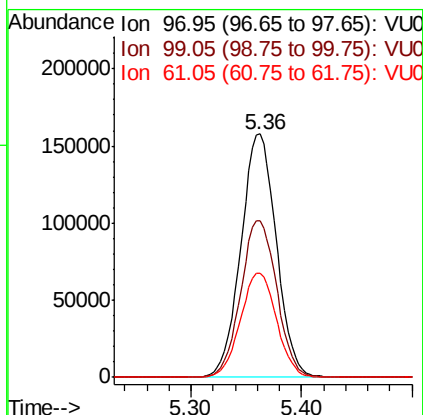
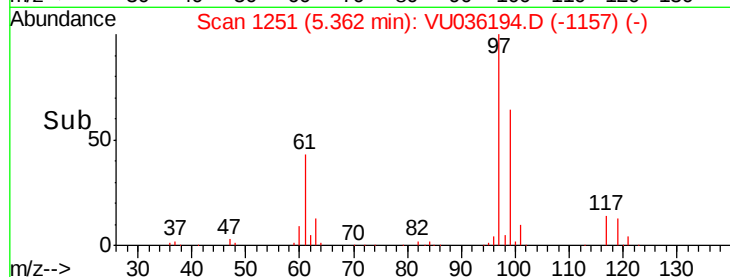
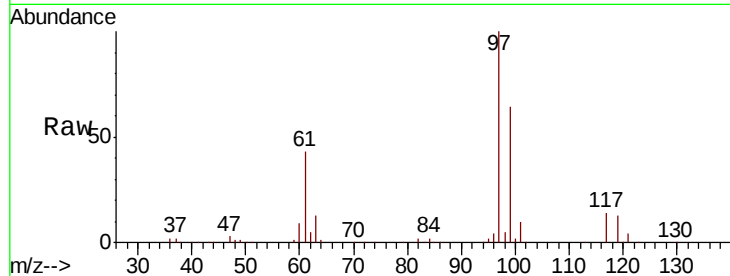




#29
 1,1,1-Trichloroethane
 Concen: 9.445 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

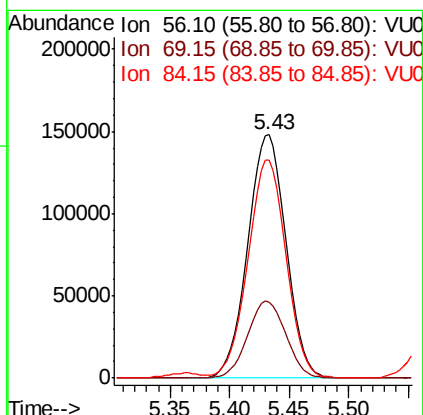
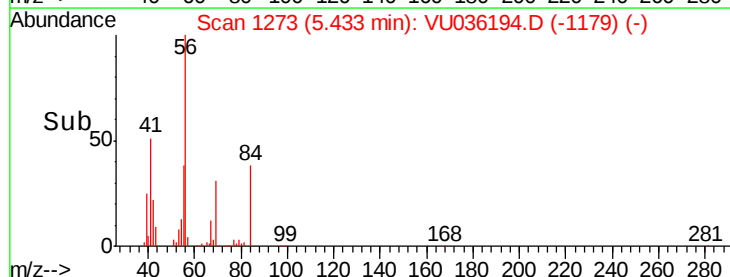
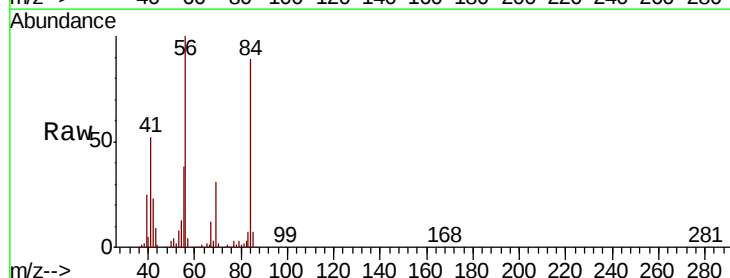
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01004

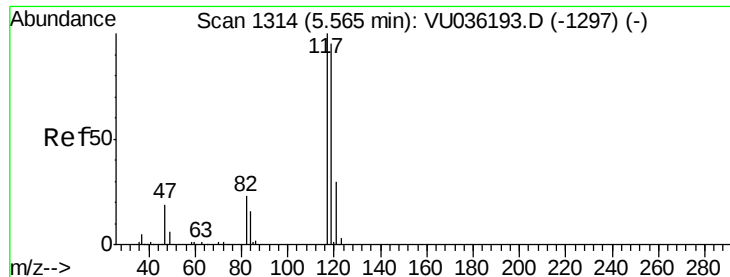
Tot Ion: 97 Resp: 350505
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.4 77.2
 61 43.8 35.0 52.6



#30
 Cyclohexane
 Concen: 10.468 ug/L
 RT: 5.43 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Tgt Ion: 56 Resp: 329743
 Ion Ratio Lower Upper
 56 100
 69 31.7 25.6 38.4
 84 88.8 73.0 109.4

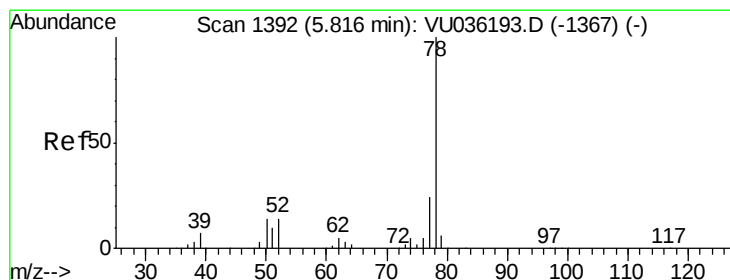
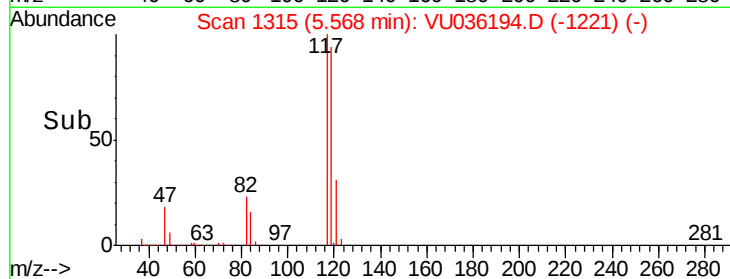
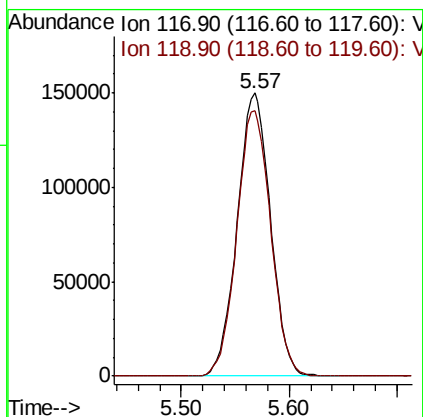
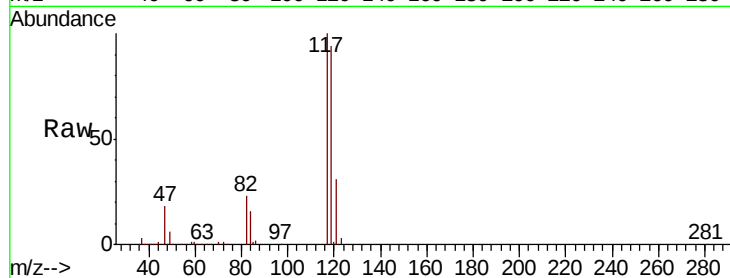




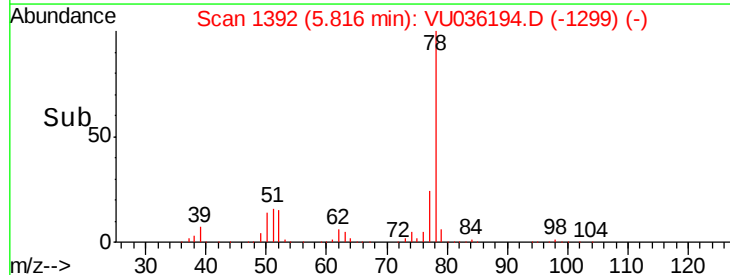
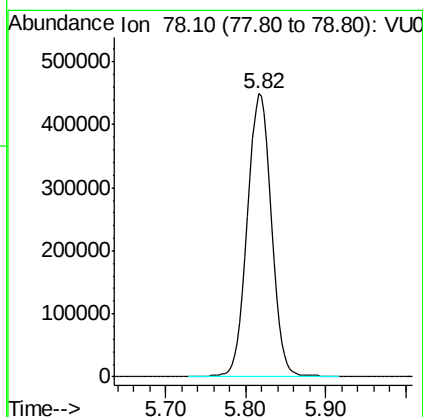
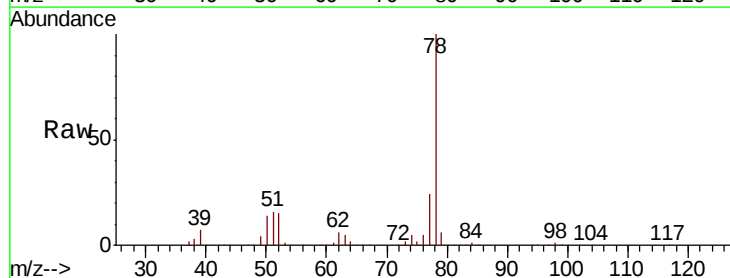
#31
Carbon tetrachloride
Concen: 9.712 ug/L
RT: 5.57 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU036194.D
Acq: 13 Dec 2019 13:47

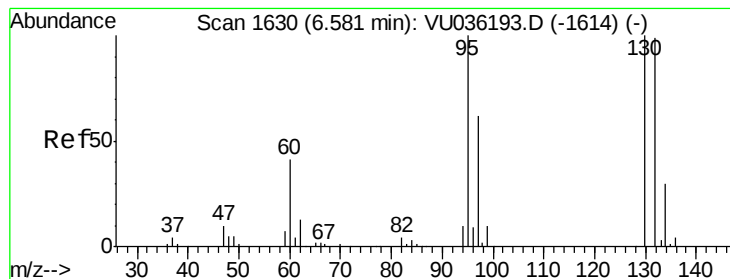
Instrument :
MSVOA_U
ClientSampleId :
VSTD01004

Tot Ion:117 Resp: 321959
Ion Ratio Lower Upper
117 100
119 95.5 77.2 115.8



#33
Benzene
Concen: 9.877 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VU036194.D
Acq: 13 Dec 2019 13:47
Tgt Ion: 78 Resp: 915754





#34

Trichloroethene

Concen: 9.763 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD01004

Tot Ion: 95 Resp: 232590

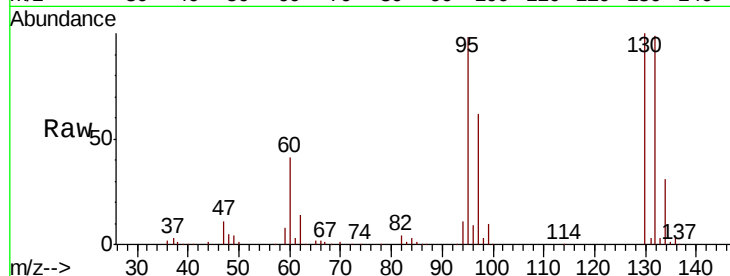
Ion Ratio Lower Upper

95 100

97 63.7 43.6 81.0

132 100.9 69.6 129.2

130 102.3 70.3 130.7

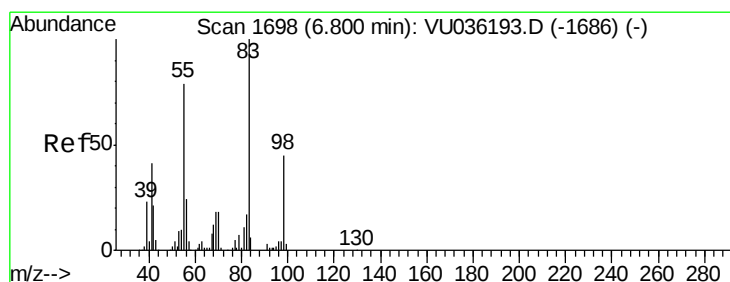
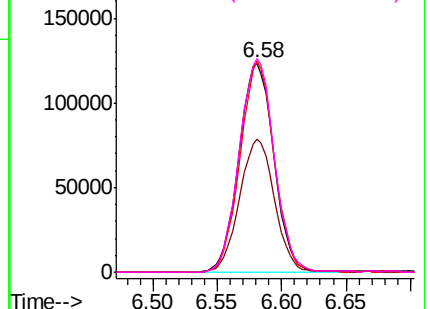
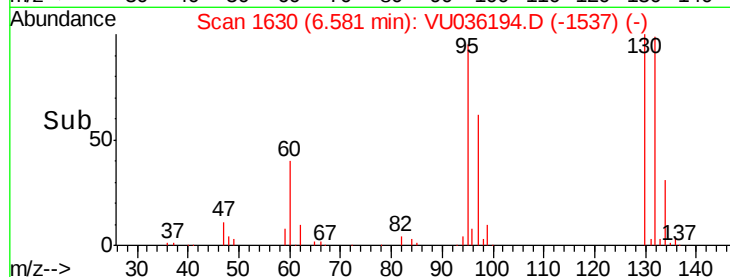


Abundance Ion 95.00 (94.70 to 95.70): VU036194.D (-1614) (-)

Ion 96.95 (96.65 to 97.65): VU036194.D (-1614) (-)

Ion 131.95 (131.65 to 132.65): VU036194.D (-1614) (-)

Ion 129.95 (129.65 to 130.65): VU036194.D (-1614) (-)



#35

Methylcyclohexane

Concen: 10.894 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

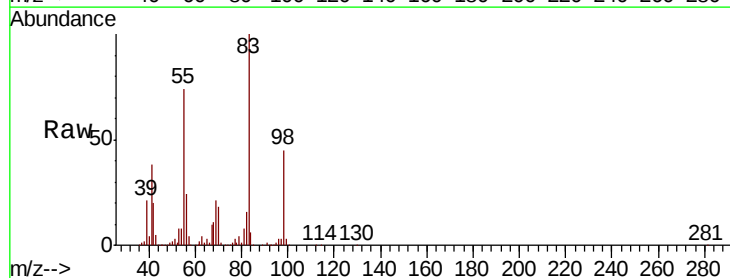
Tgt Ion: 83 Resp: 368784

Ion Ratio Lower Upper

83 100

55 75.1 62.6 94.0

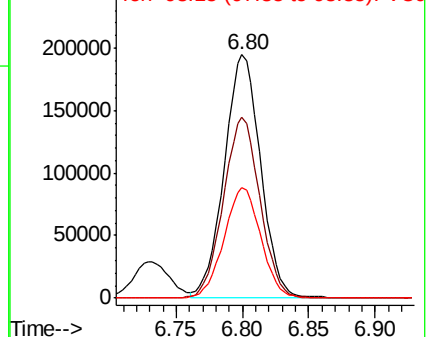
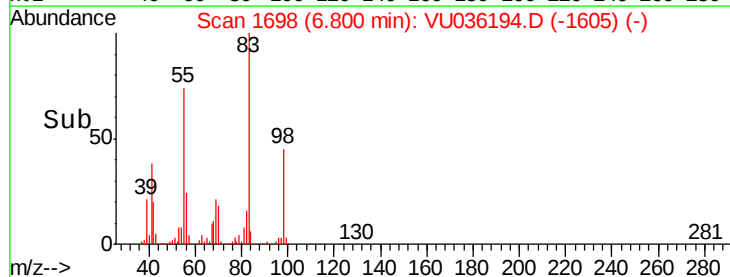
98 46.2 36.2 54.2

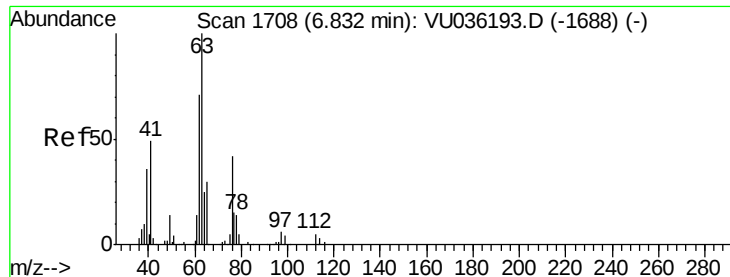


Abundance Ion 83.15 (82.85 to 83.85): VU036194.D (-1605) (-)

Ion 55.10 (54.80 to 55.80): VU036194.D (-1605) (-)

Ion 98.15 (97.85 to 98.85): VU036194.D (-1605) (-)

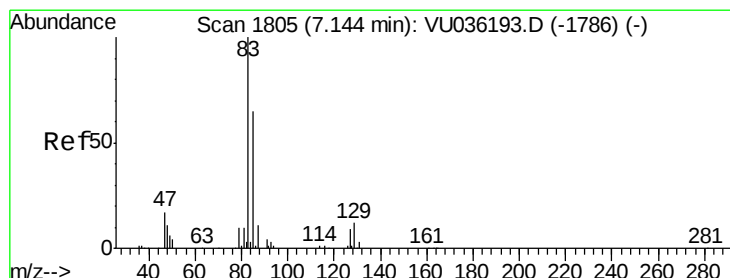
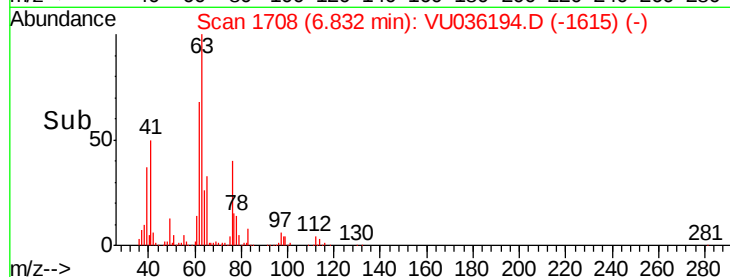
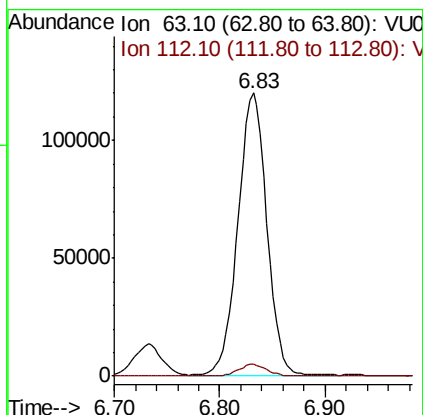
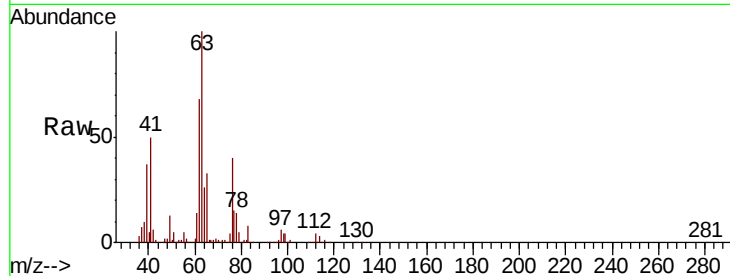




#37
 1,2-Dichloropropane
 Concen: 9.579 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

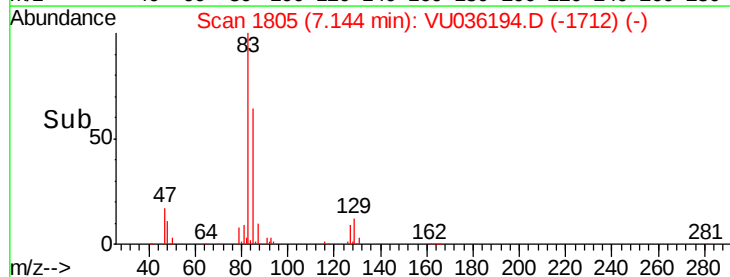
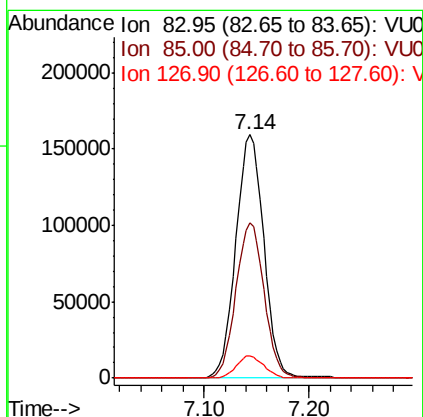
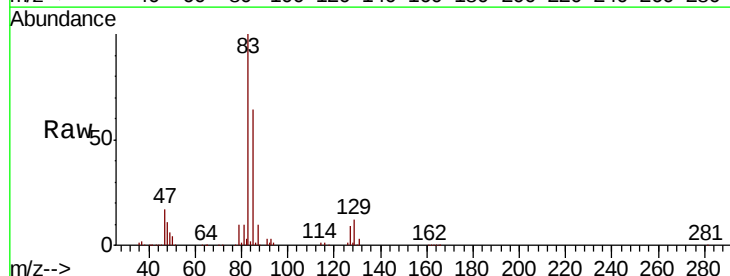
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD01004

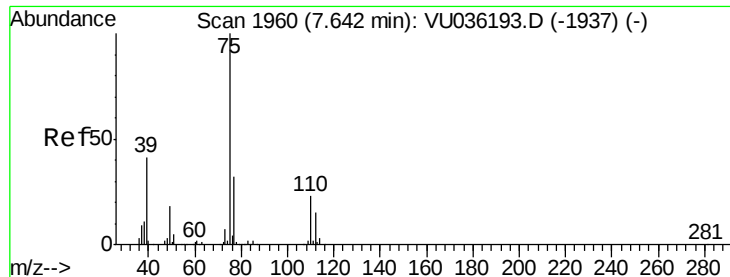
Tot Ion: 63 Resp: 228052
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.8 5.8



#38
 Bromodichloromethane
 Concen: 9.583 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Tgt Ion: 83 Resp: 293274
 Ion Ratio Lower Upper
 83 100
 85 63.5 45.6 84.6
 127 9.1 7.1 10.7

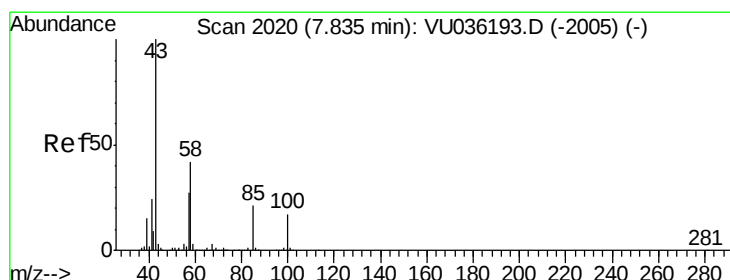
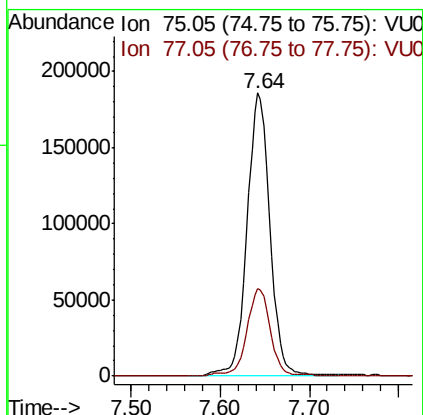
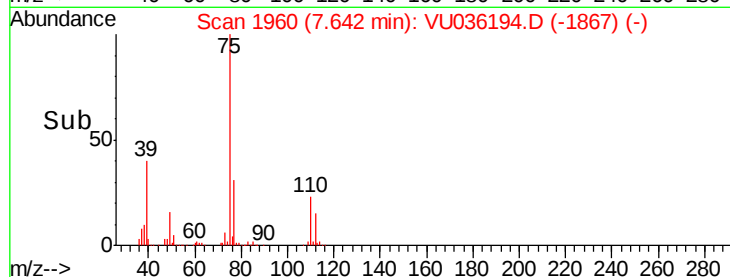
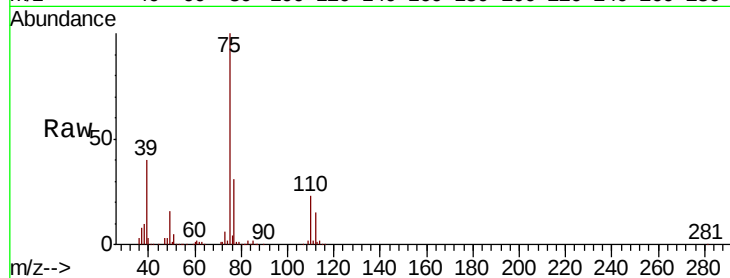




#39
 cis-1,3-Dichloropropene
 Concen: 10.499 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

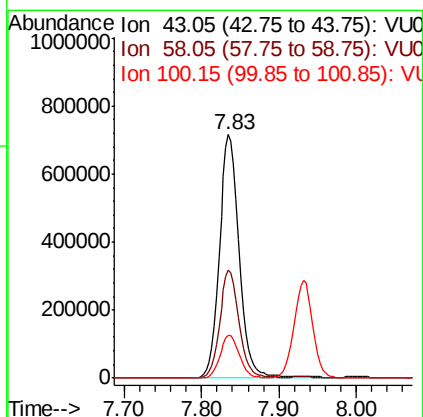
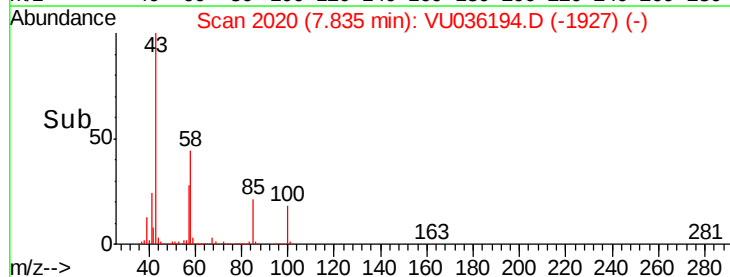
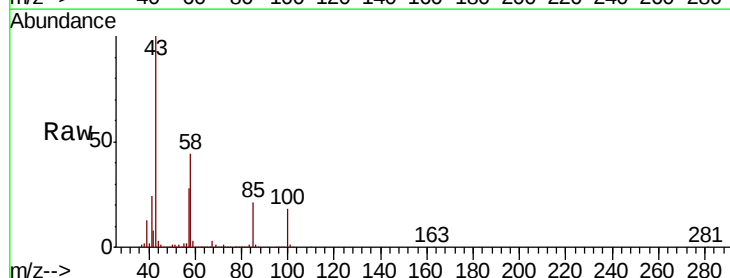
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01004

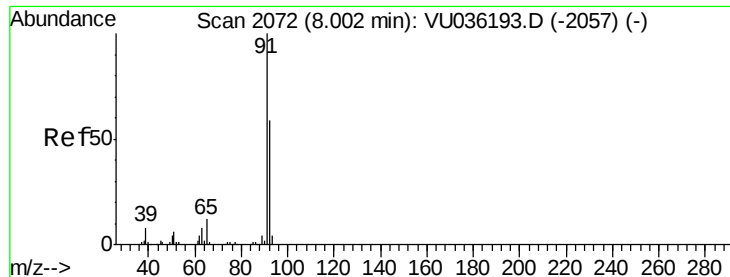
Tot Ion: 75 Resp: 333150
 Ion Ratio Lower Upper
 75 100
 77 30.8 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 106.176 ug/L
 RT: 7.83 min Scan# 2020
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Tgt Ion: 43 Resp: 1288413
 Ion Ratio Lower Upper
 43 100
 58 43.1 33.3 49.9
 100 17.3 13.7 20.5





#42

Toluene

Concen: 10.384 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

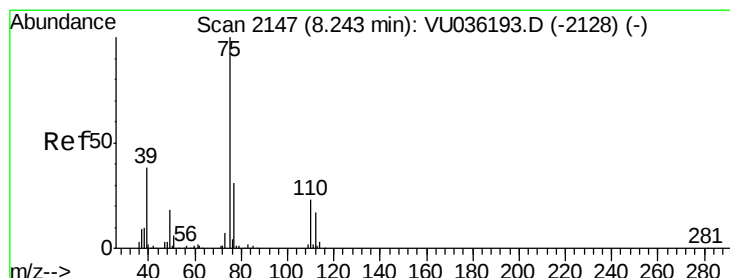
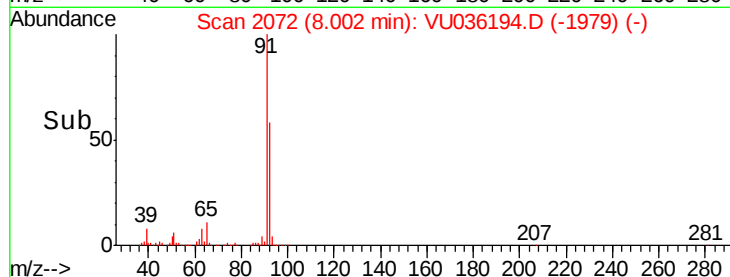
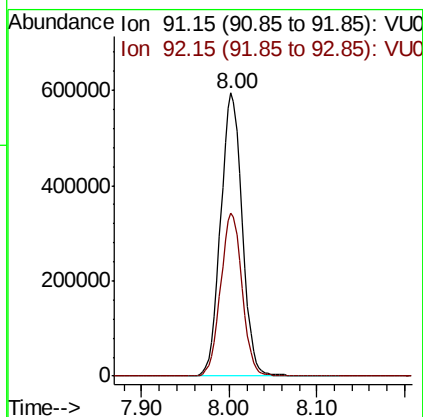
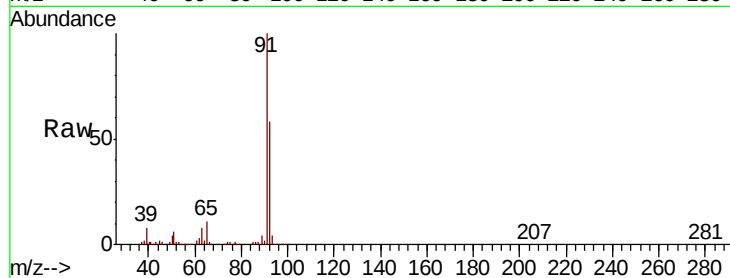
VSTD01004

Tot Ion: 91 Resp: 1017006

Ion Ratio Lower Upper

91 100

92 57.7 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 10.198 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU036194.D

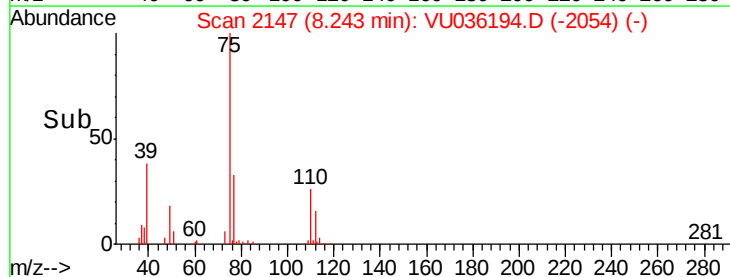
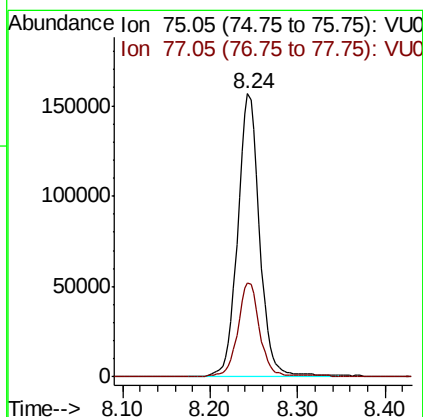
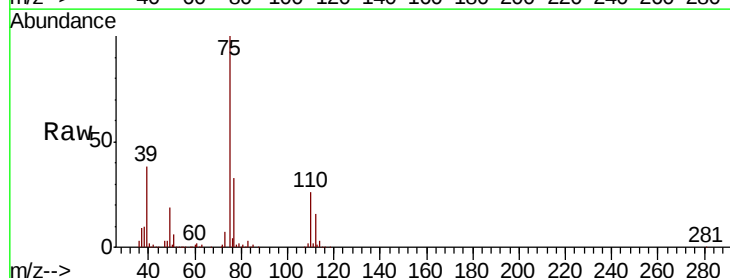
Acq: 13 Dec 2019 13:47

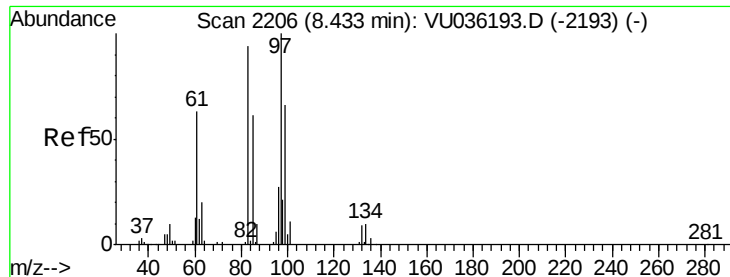
Tgt Ion: 75 Resp: 272864

Ion Ratio Lower Upper

75 100

77 33.4 22.1 41.1

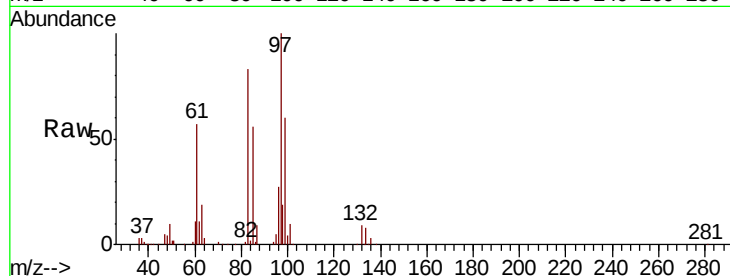




#45
 1,1,2-Trichloroethane
 Concen: 9.810 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01004

Tot Ion:	97	Resp:	172189
Ion	Ratio	Lower	Upper
97	100		
99	60.1	46.1	85.5
83	82.5	65.9	122.3
85	56.2	43.1	80.1



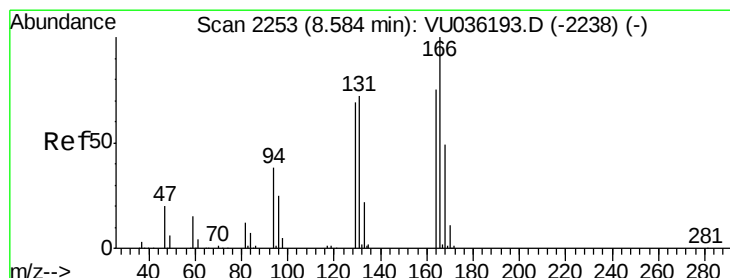
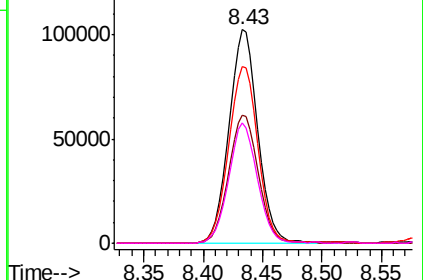
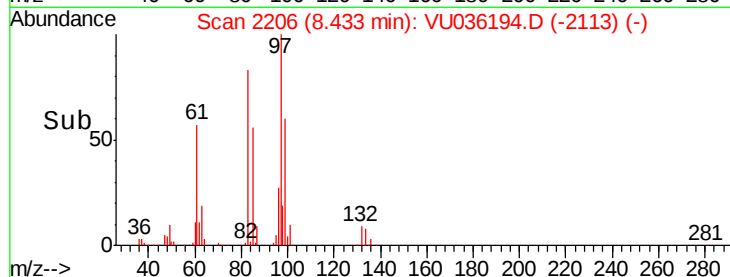
Abundance

Ion 96.95 (96.65 to 97.65): VU036194.D (-2113) (-)

Ion 99.05 (98.75 to 99.75): VU036194.D (-2113) (-)

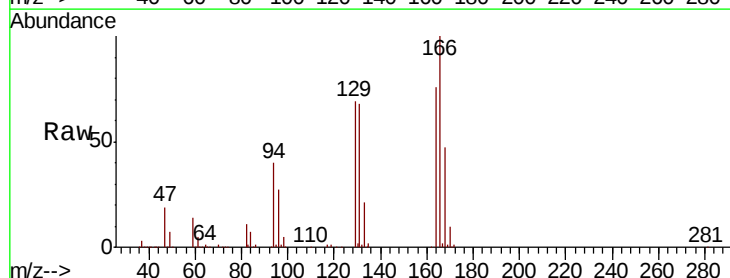
Ion 82.95 (82.65 to 83.65): VU036194.D (-2113) (-)

Ion 85.00 (84.70 to 85.70): VU036194.D (-2113) (-)



#47
 Tetrachloroethene
 Concen: 9.807 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Tgt Ion:	164	Resp:	203805
Ion	Ratio	Lower	Upper
164	100		
129	91.2	64.2	119.2
131	89.3	66.6	123.8
166	131.8	93.1	172.9



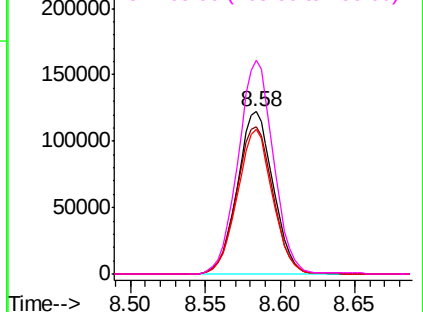
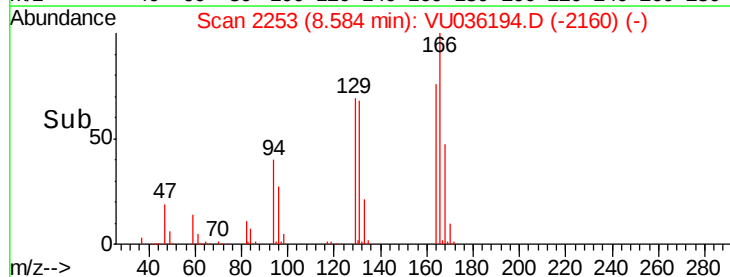
Abundance

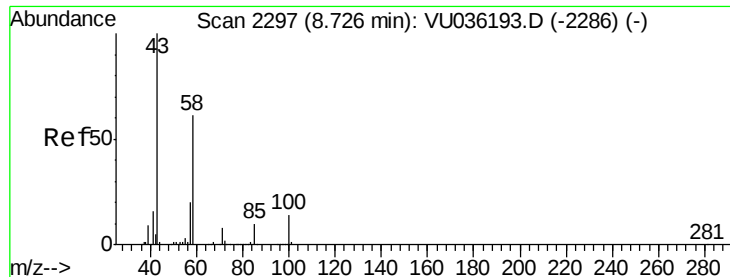
Ion 163.90 (163.60 to 164.60): VU036194.D (-2160) (-)

Ion 128.95 (128.65 to 129.65): VU036194.D (-2160) (-)

Ion 130.95 (130.65 to 131.65): VU036194.D (-2160) (-)

Ion 165.90 (165.60 to 166.60): VU036194.D (-2160) (-)

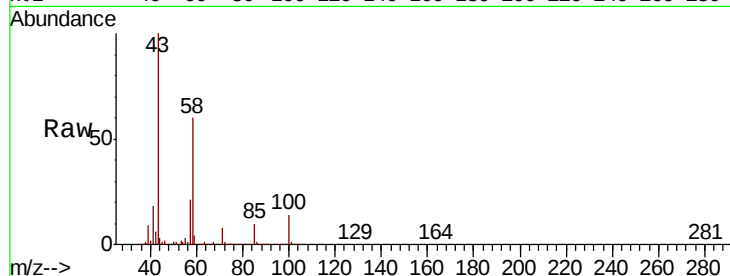




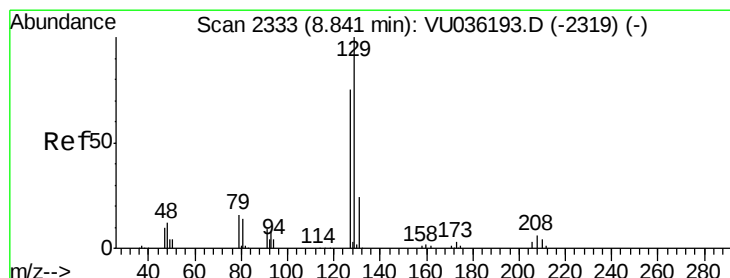
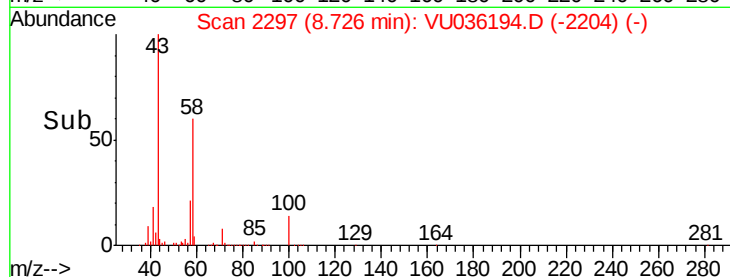
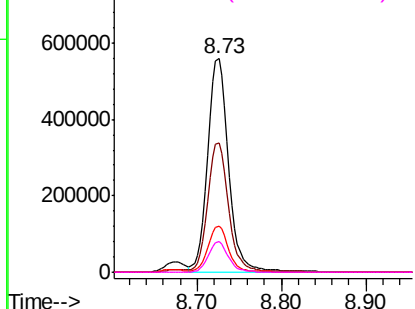
#48
2-Hexanone
Concen: 108.262 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU036194.D
Acq: 13 Dec 2019 13:47

Instrument :
MSVOA_U
ClientSampleId :
VSTD01004

Tot Ion: 43 Resp: 967744
Ion Ratio Lower Upper
43 100
58 59.2 46.2 69.2
57 21.6 16.2 24.4
100 13.5 10.2 15.4

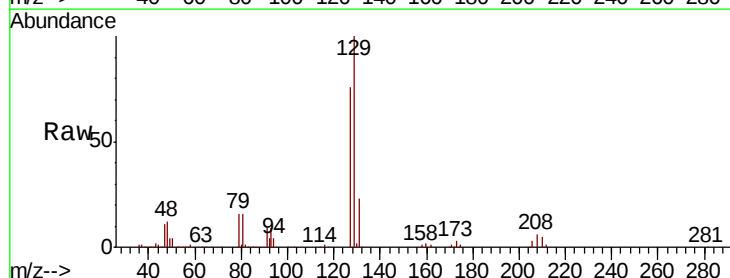


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

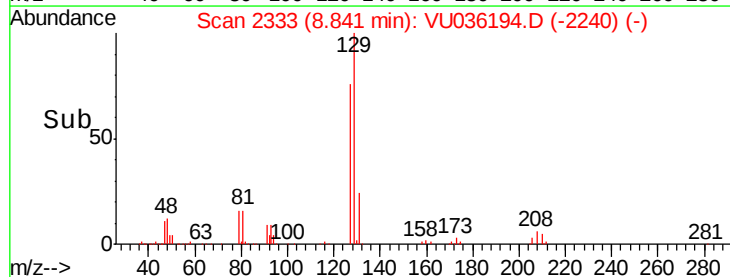
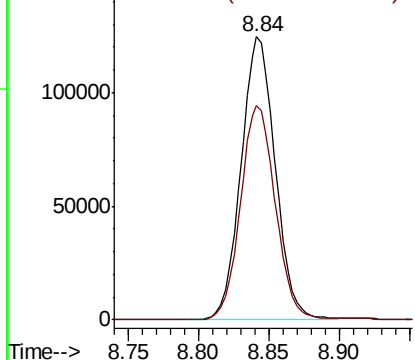


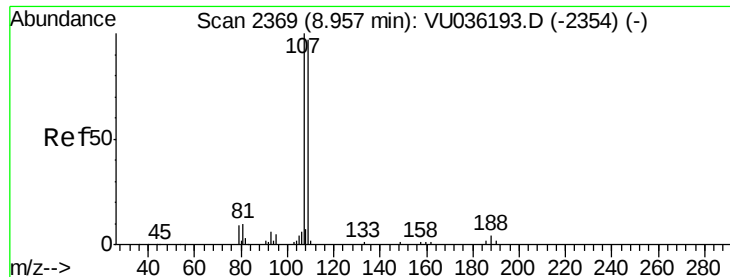
#49
Dibromochloromethane
Concen: 9.641 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU036194.D
Acq: 13 Dec 2019 13:47

Tgt Ion: 129 Resp: 211801
Ion Ratio Lower Upper
129 100
127 75.7 52.6 97.6



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

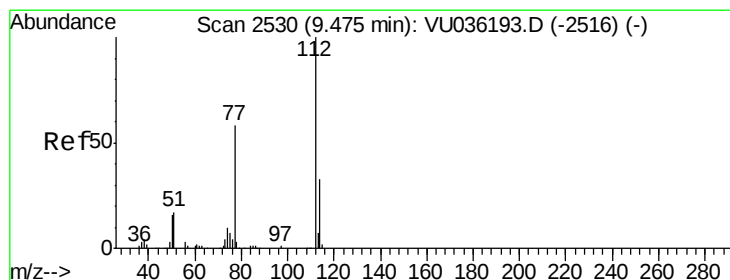
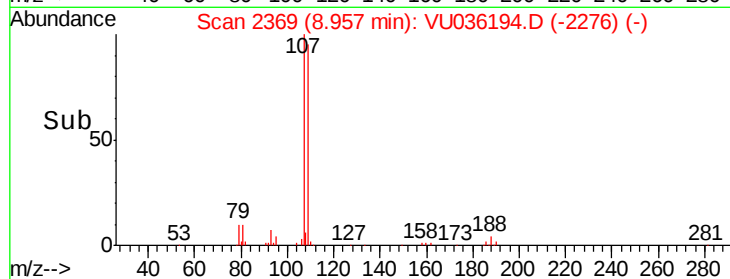
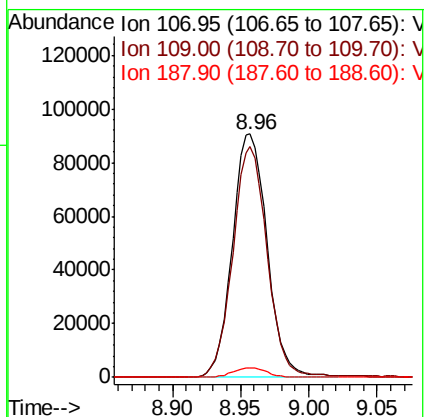
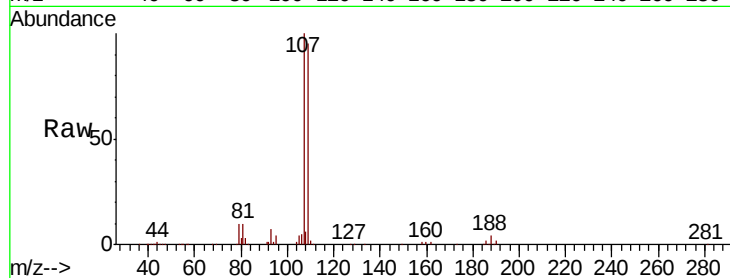




#50
 1,2-Dibromoethane
 Concen: 9.739 ug/L
 RT: 8.96 min Scan# 2369
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

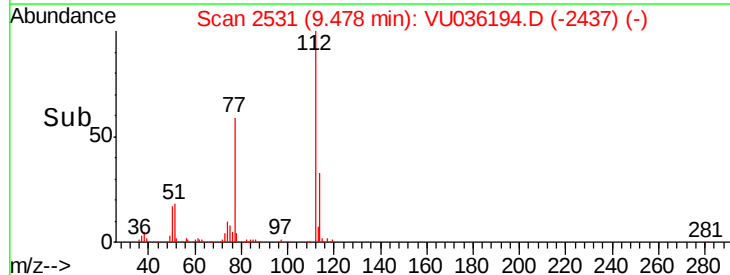
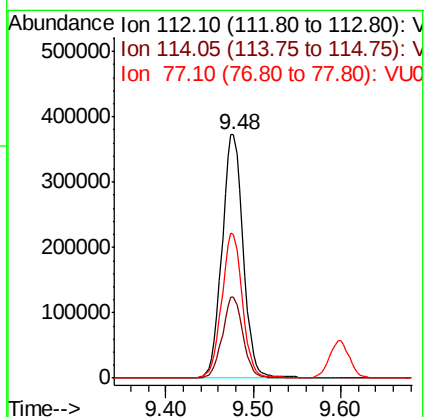
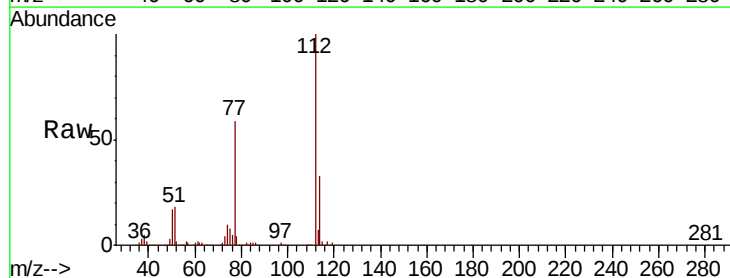
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01004

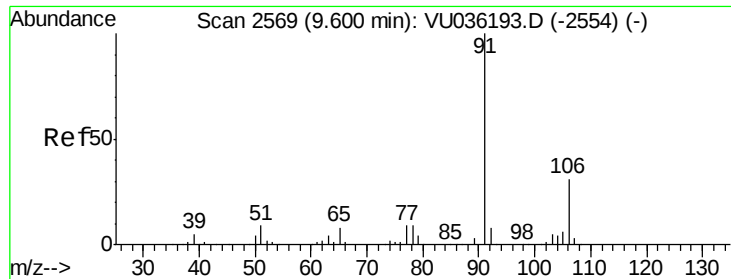
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	67.5	125.4
188	4.0	3.1	4.7



#51
 Chlorobenzene
 Concen: 9.746 ug/L
 RT: 9.48 min Scan# 2531
 Delta R.T. 0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.3	23.2	43.2
77	59.1	46.5	69.7





#52

Ethylbenzene

Concen: 10.903 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleID :

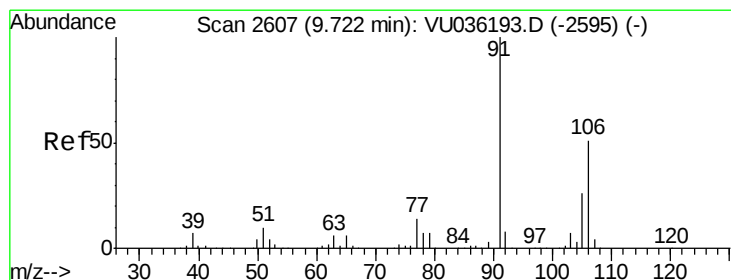
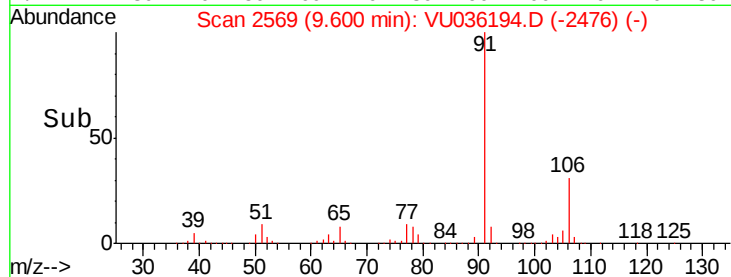
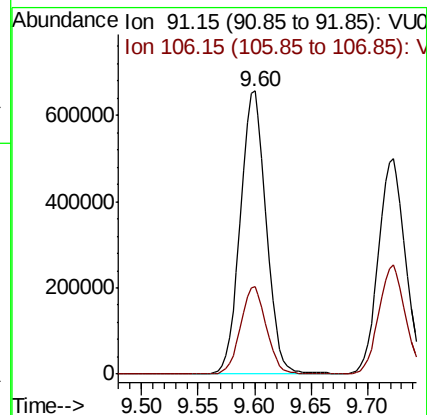
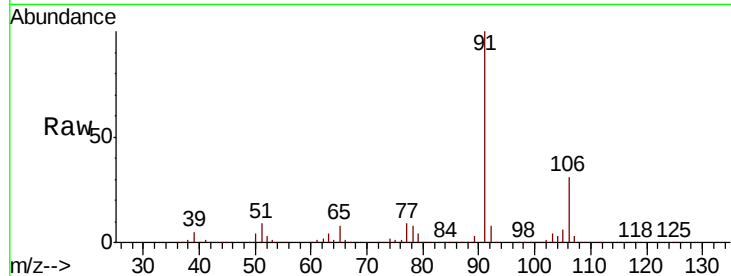
VSTD01004

Tot Ion: 91 Resp: 1047819

Ion Ratio Lower Upper

91 100

106 31.0 22.0 41.0



#53

m,p-Xylene

Concen: 11.060 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU036194.D

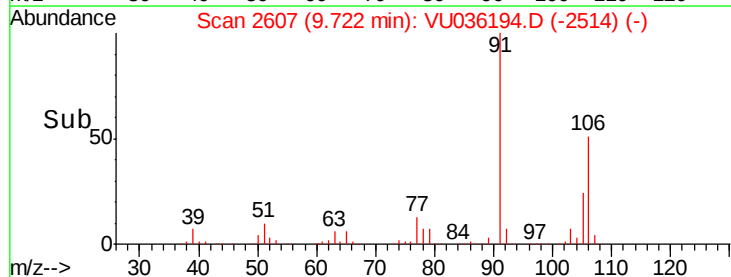
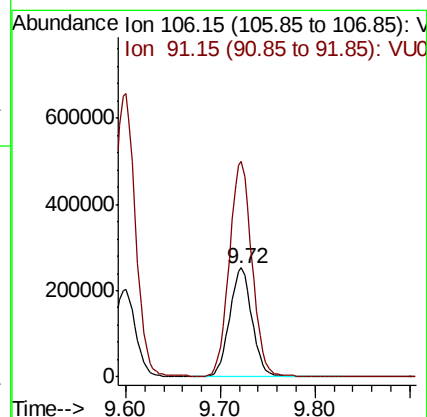
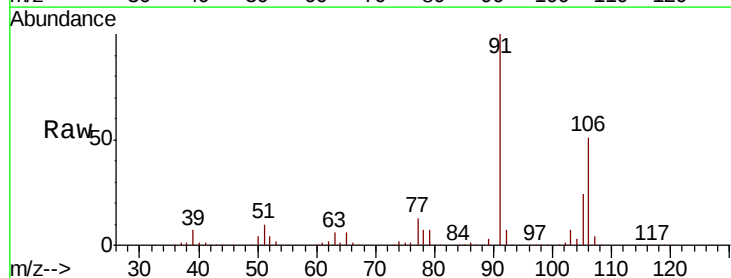
Acq: 13 Dec 2019 13:47

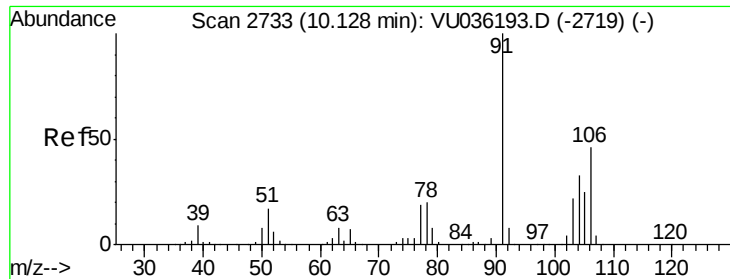
Tgt Ion: 106 Resp: 417847

Ion Ratio Lower Upper

106 100

91 197.3 138.7 257.7





#54

o-Xylene

Concen: 11.069 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

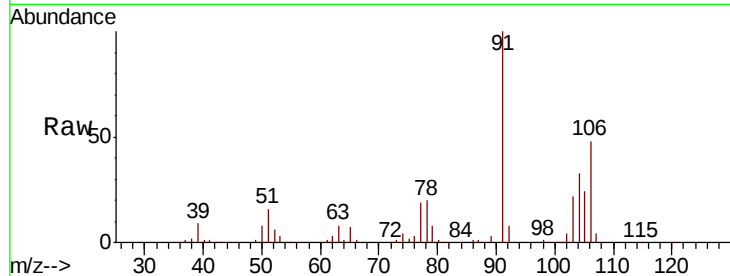
VSTD01004

Tot Ion:106 Resp: 398987

Ion Ratio Lower Upper

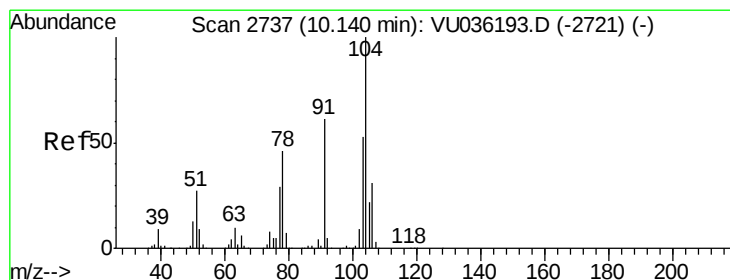
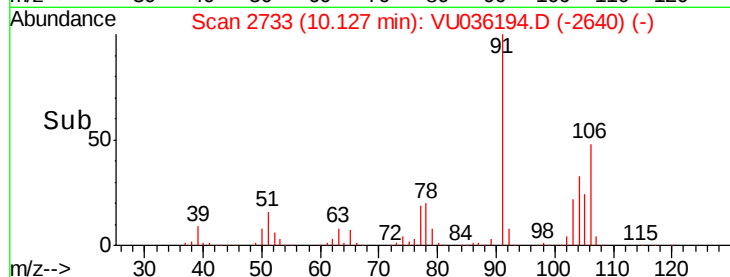
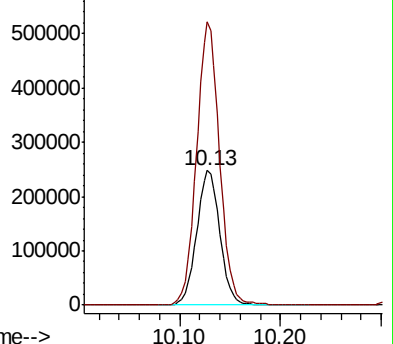
106 100

91 210.5 152.8 283.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 10.888 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036194.D

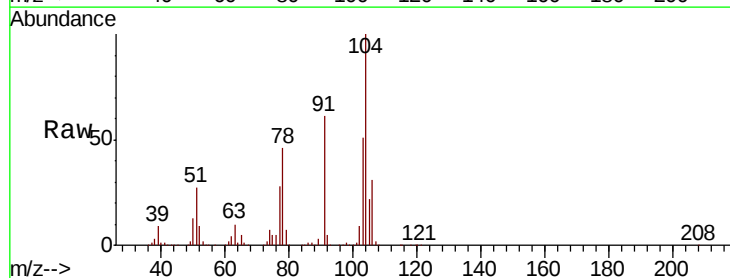
Acq: 13 Dec 2019 13:47

Tgt Ion:104 Resp: 698966

Ion Ratio Lower Upper

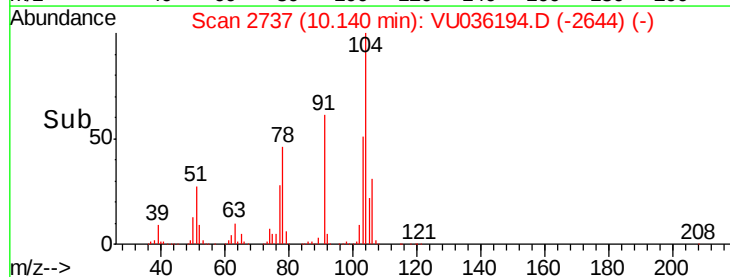
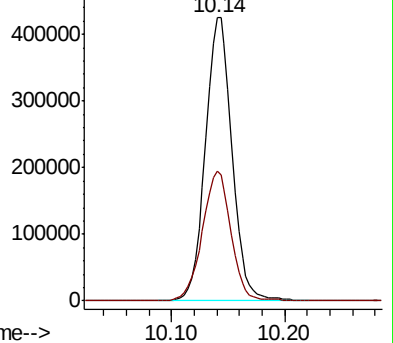
104 100

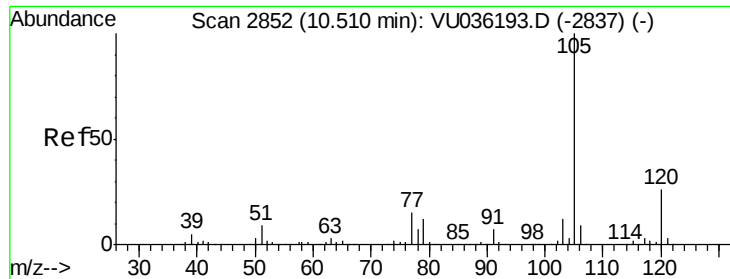
78 45.9 32.1 59.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 11.154 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD01004

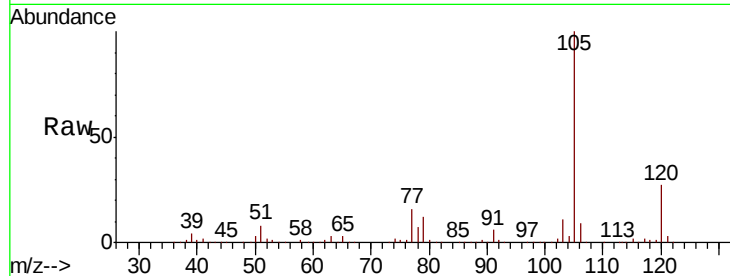
Tot Ion:105 Resp: 1025715

Ion Ratio Lower Upper

105 100

120 27.1 21.0 31.6

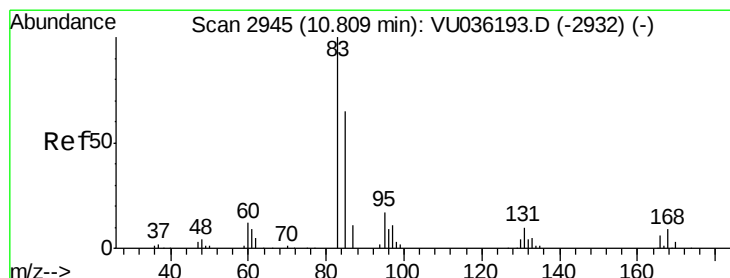
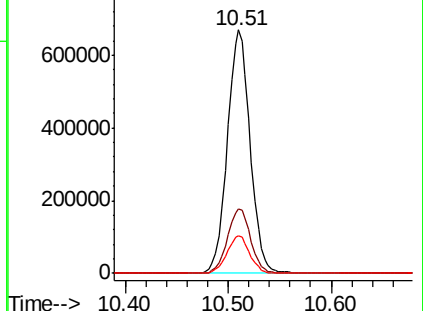
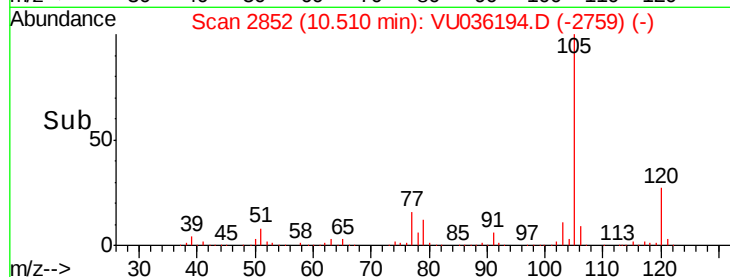
77 15.5 12.5 18.7



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: 9.739 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

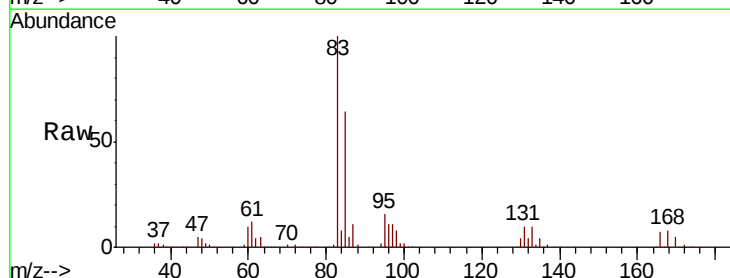
Tgt Ion: 83 Resp: 216096

Ion Ratio Lower Upper

83 100

85 64.1 45.6 84.8

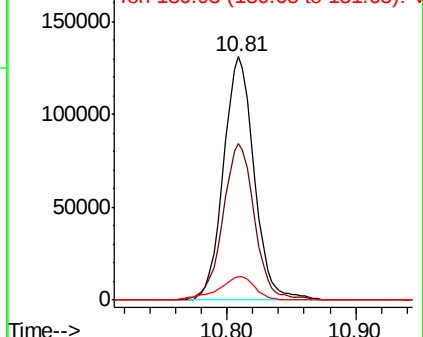
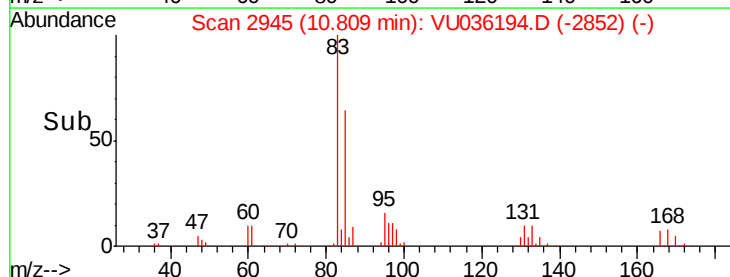
131 9.7 8.5 12.7

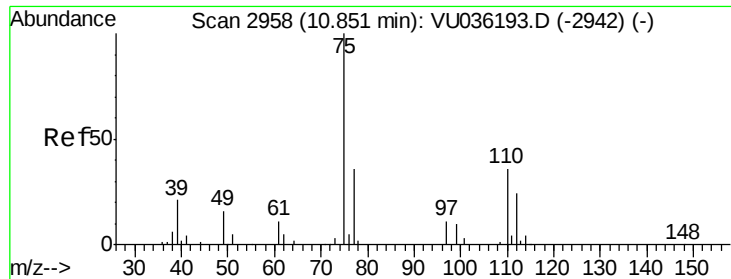


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 9.606 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

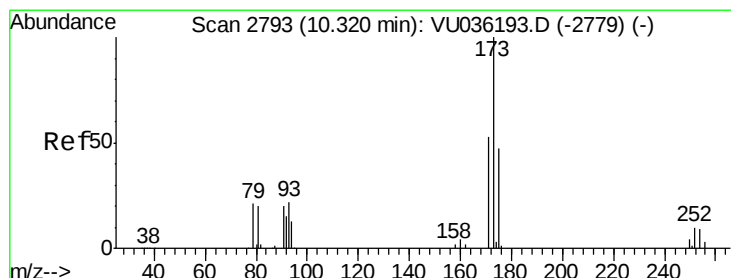
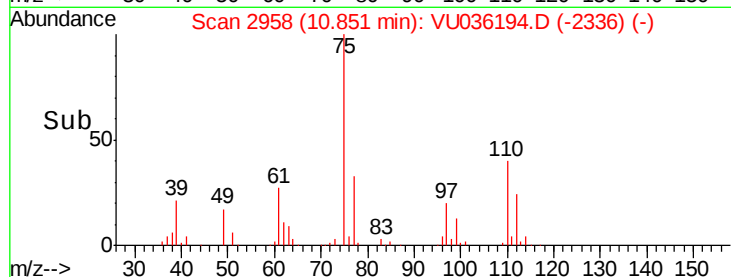
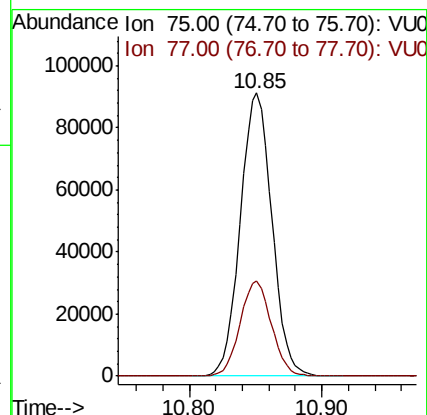
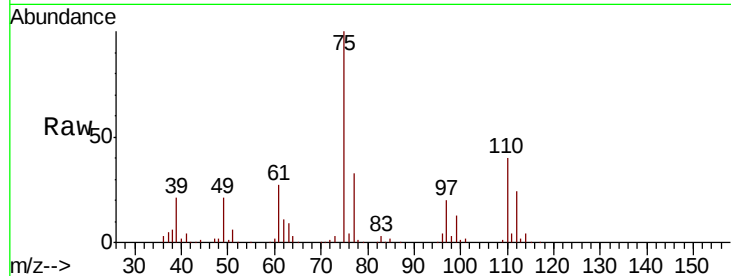
VSTD01004

Tot Ion: 75 Resp: 151042

Ion Ratio Lower Upper

75 100

77 32.9 27.2 40.8



#61

Bromoform

Concen: 8.150 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

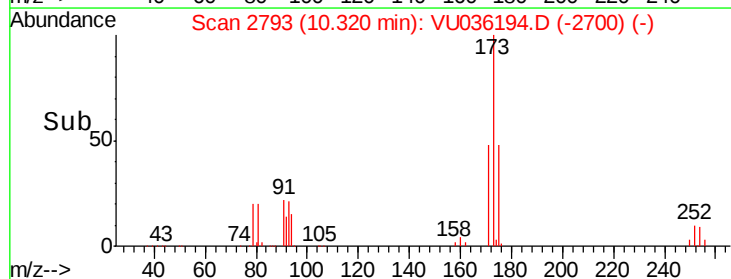
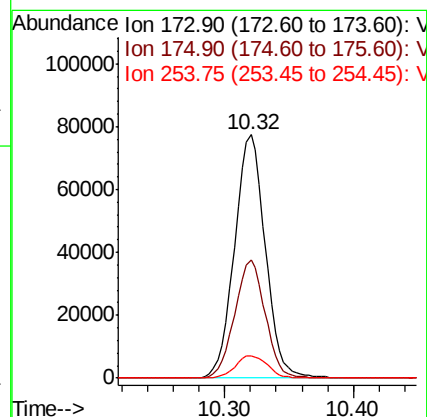
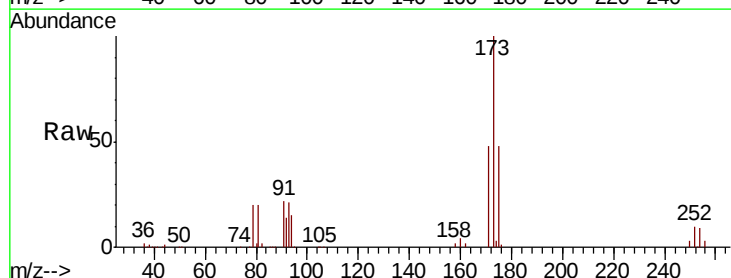
Tgt Ion: 173 Resp: 127954

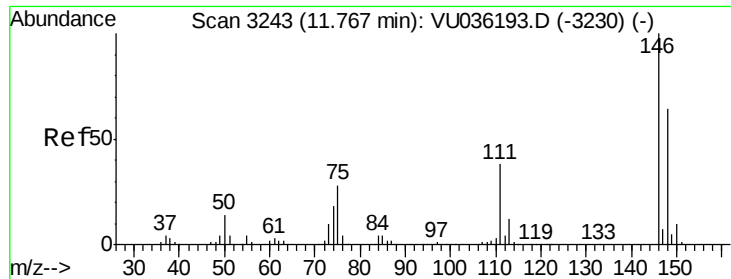
Ion Ratio Lower Upper

173 100

175 48.1 39.2 58.8

254 9.7 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 9.709 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD01004

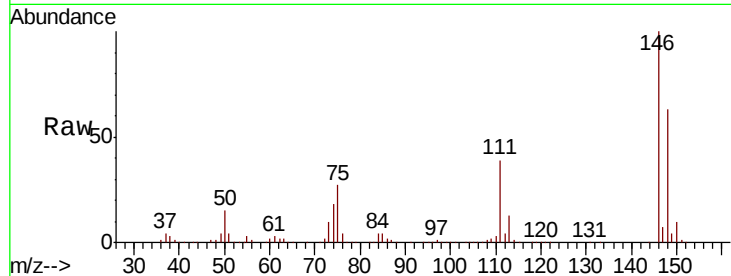
Tot Ion:146 Resp: 530894

Ion Ratio Lower Upper

146 100

111 38.9 26.3 48.9

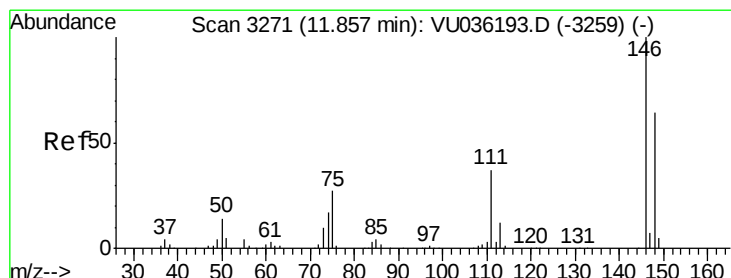
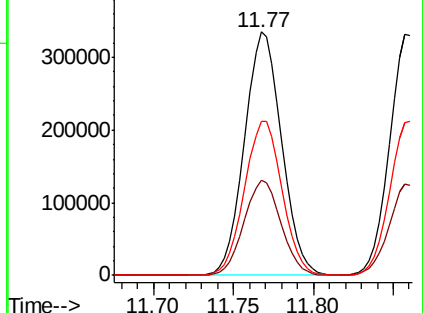
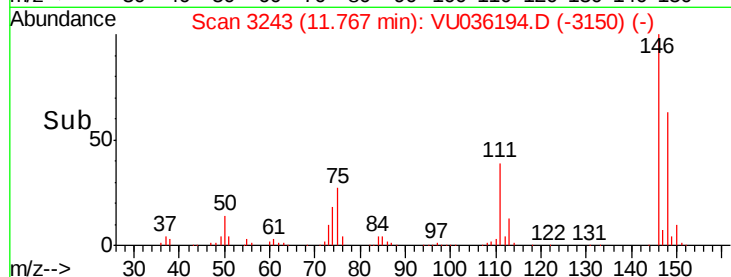
148 63.2 45.1 83.9



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



#63

1,4-Dichlorobenzene

Concen: 9.754 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

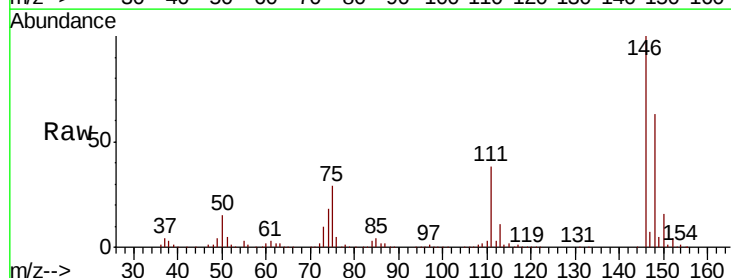
Tgt Ion:146 Resp: 525476

Ion Ratio Lower Upper

146 100

111 37.9 25.8 48.0

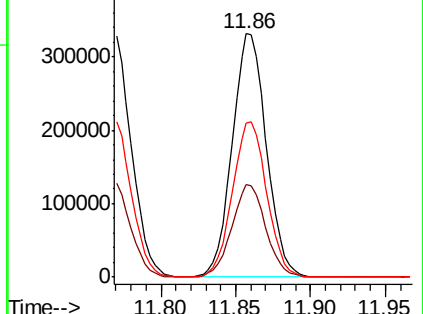
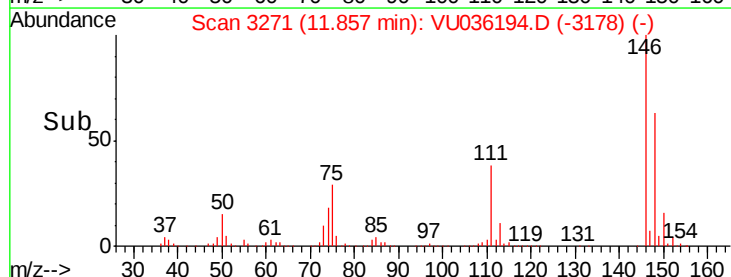
148 63.4 44.7 82.9

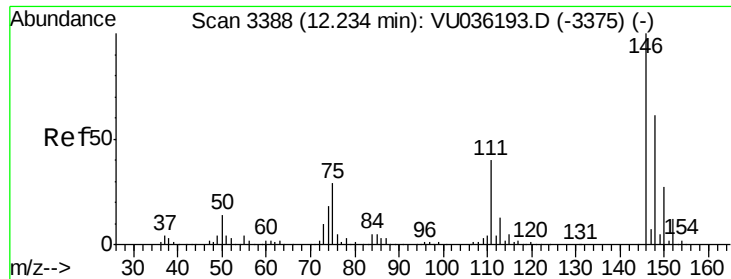


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 9.500 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD01004

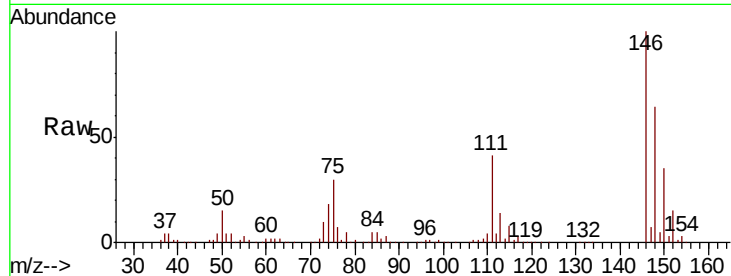
Tot Ion:146 Resp: 498425

Ion Ratio Lower Upper

146 100

111 40.6 32.5 48.7

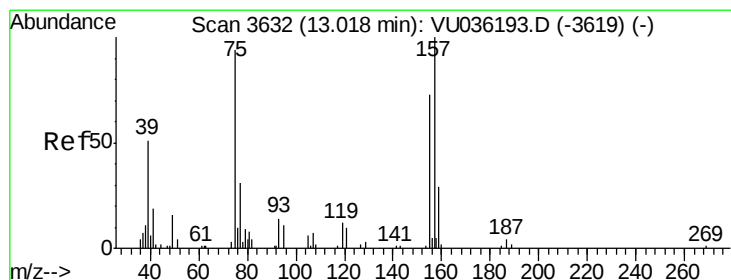
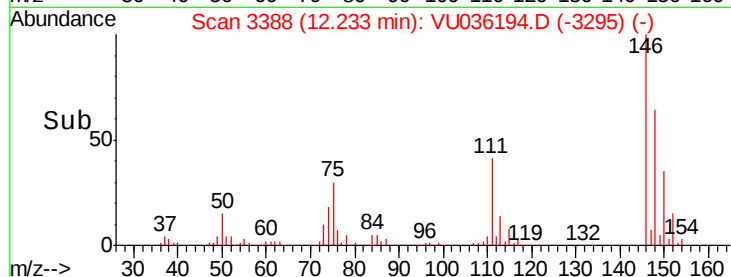
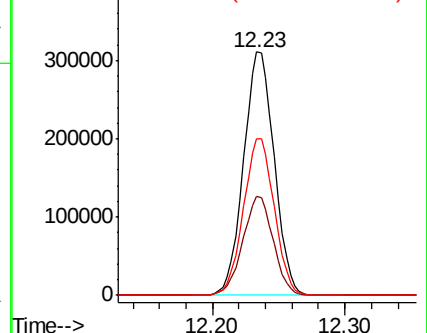
148 64.4 49.2 73.8



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: 9.637 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

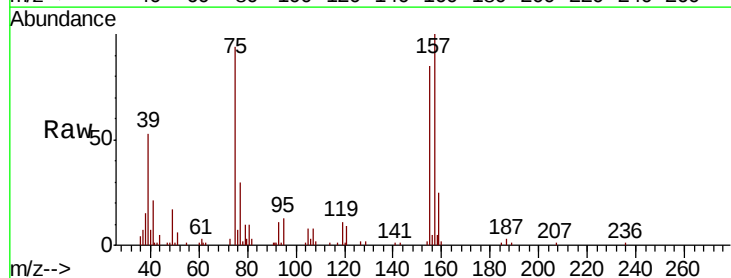
Tgt Ion: 75 Resp: 32748

Ion Ratio Lower Upper

75 100

155 90.6 61.9 92.9

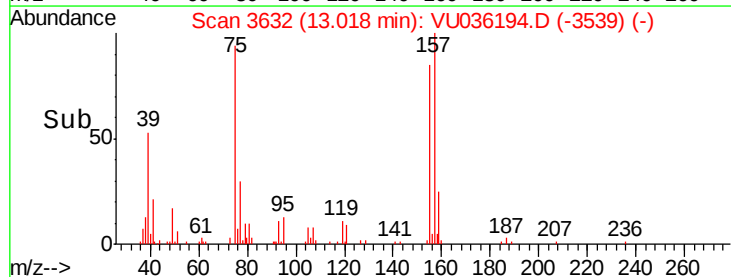
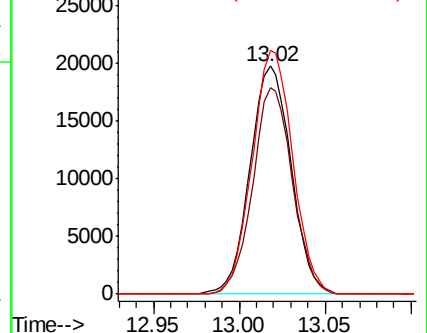
157 106.7 84.9 127.3

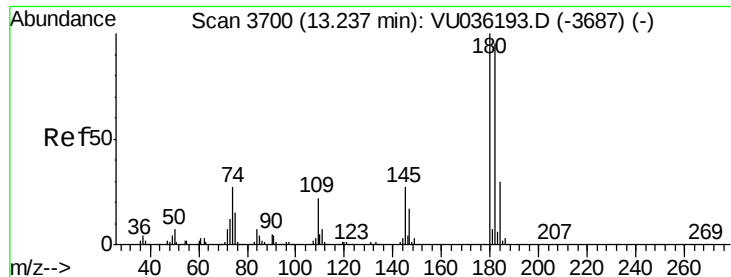


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

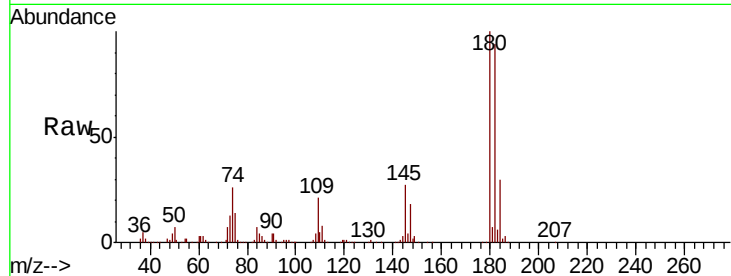




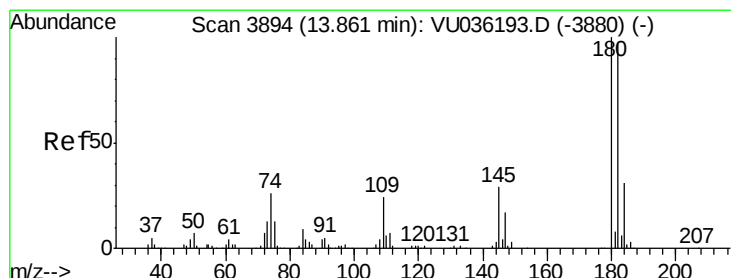
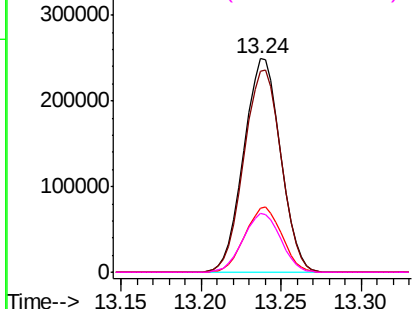
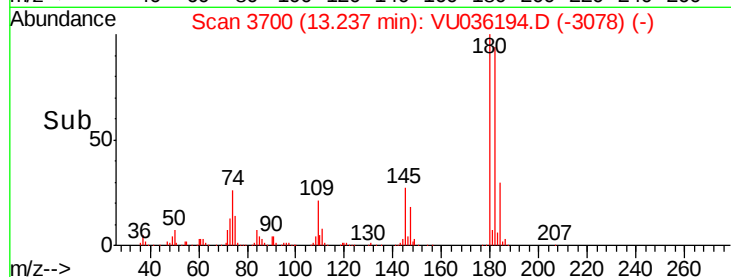
#67
 1,3,5-Trichlorobenzene
 Concen: 10.799 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01004

Tot Ion:180	Resp:	392383
Ion	Ratio	Lower Upper
180	100	
182	95.6	76.9 115.3
184	30.6	24.2 36.4
145	27.9	22.0 33.0

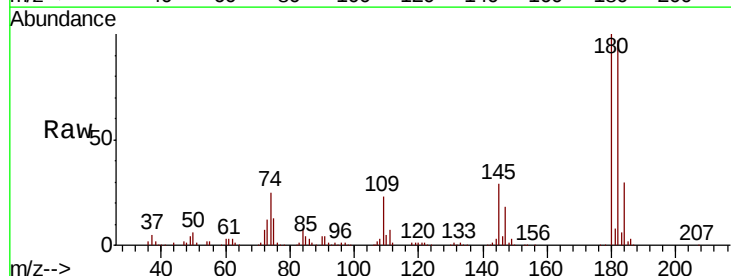


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

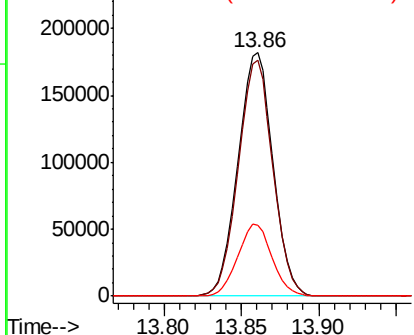
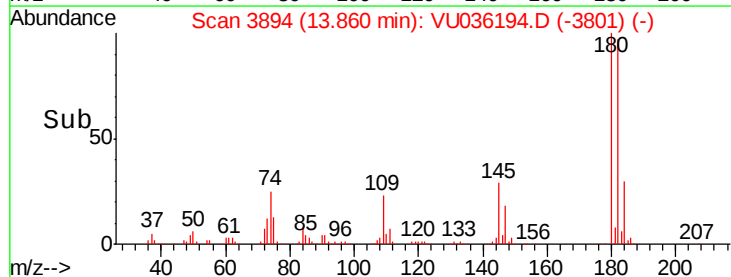


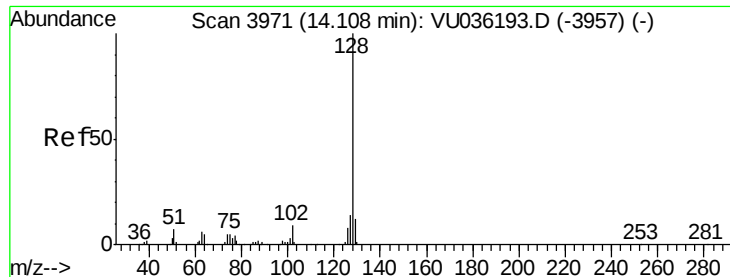
#68
 1,2,4-trichlorobenzene
 Concen: 14.085 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. -0.00 min
 Lab File: VU036194.D
 Acq: 13 Dec 2019 13:47

Tgt Ion:180	Resp:	284999
Ion	Ratio	Lower Upper
180	100	
182	95.9	75.3 112.9
145	28.9	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: 17.533 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

Instrument :

MSVOA_U

ClientSampleId :

VSTD01004

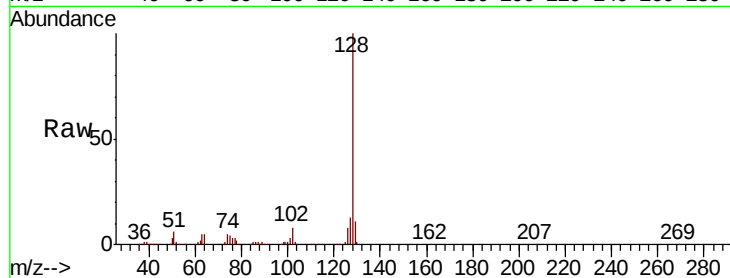
Tot Ion:128 Resp: 388053

Ion Ratio Lower Upper

128 100

129 10.7 8.4 12.6

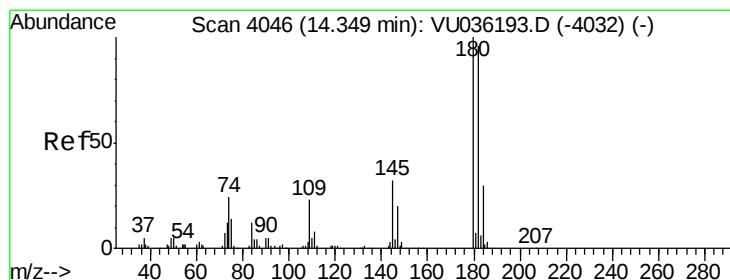
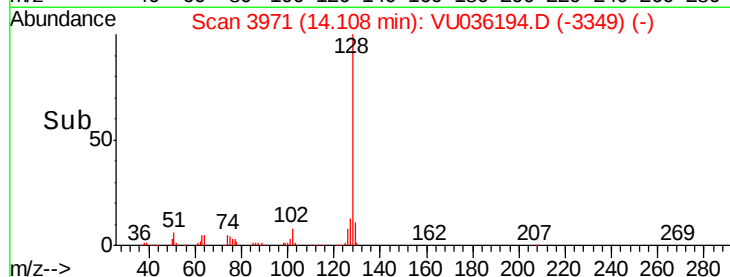
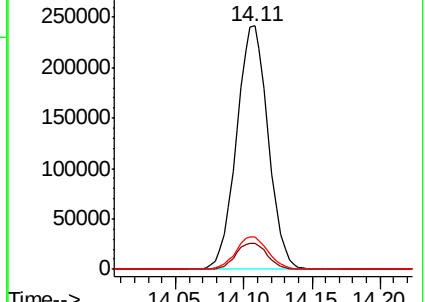
127 13.6 11.5 17.3



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: 14.740 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. -0.00 min

Lab File: VU036194.D

Acq: 13 Dec 2019 13:47

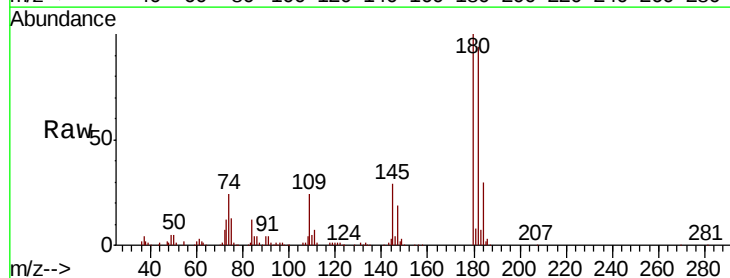
Tgt Ion:180 Resp: 279384

Ion Ratio Lower Upper

180 100

182 94.1 77.0 115.6

145 29.9 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

