

Data File : VU036882.D
Acq On : 24 Feb 2020 14:01
Operator : JC/MD
Sample : VSTD20036
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Quant Time: Feb 25 00:33:50 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Feb 25 00:29:55 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	265218	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	258937	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	121009	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	483178	262.24	ug/L	0.00
7) Chloroethane-d5	1.92	69	391719	248.29	ug/L	-0.01
11) 1,1-Dichloroethene-d2	2.59	63	805173	236.16	ug/L	0.00
21) 2-Butanone-d5	4.67	46	649962	432.12	ug/L	0.00
24) Chloroform-d	5.10	84	749348	218.02	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	486256	212.40	ug/L	0.00
32) Benzene-d6	5.76	84	1573647	225.75	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	514570	226.87	ug/L	0.00
41) Toluene-d8	7.93	98	1469313	223.68	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.21	79	254585	214.68	ug/L	0.00
47) 2-Hexanone-d5	8.66	63	537471	469.29	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	753990	224.90	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	498333	209.09	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	471587	195.628	ug/L	100
3) Chloromethane	1.54	50	526146	232.452	ug/L	99
5) Vinyl chloride	1.62	62	565629	247.662	ug/L	100
6) Bromomethane	1.85	94	300690	226.048	ug/L	98
8) Chloroethane	1.94	64	328189	241.217	ug/L	100
9) Trichlorofluoromethane	2.15	101	586659	198.777	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	353554	221.864	ug/L	100
12) 1,1-Dichloroethene	2.60	96	363561	228.933	ug/L	98
13) Acetone	2.66	43	552386	344.233	ug/L	100
14) Carbon disulfide	2.82	76	1159763	226.022	ug/L	100
15) Methyl Acetate	2.98	43	474964	218.712	ug/L	99
16) Methylene chloride	3.08	84	424273	217.345	ug/L	97
17) trans-1,2-Dichloroethene	3.39	96	387665	222.573	ug/L	100
18) Methyl tert-butyl Ether	3.40	73	1270613	216.732	ug/L	99
19) 1,1-Dichloroethane	3.91	63	745929	226.228	ug/L	98
20) cis-1,2-Dichloroethene	4.71	96	440164	222.964	ug/L	99
22) 2-Butanone	4.75	43	738993	402.939	ug/L	99
23) Bromochloromethane	5.02	128	197441	208.520	ug/L	96
25) Chloroform	5.13	83	709288	205.413	ug/L	100
27) 1,2-Dichloroethane	5.83	62	583219	211.891	ug/L	100
29) Cyclohexane	5.42	56	714190	224.678	ug/L	100
30) 1,1,1-Trichloroethane	5.36	97	573187	190.547	ug/L	100
31) Carbon tetrachloride	5.56	117	459624	182.486	ug/L	99
33) Benzene	5.81	78	1657470	218.787	ug/L	100
34) Trichloroethene	6.57	95	414066	206.701	ug/L	99
35) Methylcyclohexane	6.79	83	726798	229.148	ug/L	99
37) 1,2-Dichloropropane	6.82	63	447380	222.620	ug/L	99
38) Bromodichloromethane	7.14	83	551231	205.574	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	735202	228.095	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	1385407	432.374	ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	1795812	219.035	ug/L	99
44) trans-1,3-Dichloropropene	8.23	75	649872	221.110	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	401485	211.476	ug/L	99
46) Tetrachloroethene	8.57	164	270290	201.992	ug/L	97
48) 2-Hexanone	8.71	43	1101029	431.330	ug/L	99
49) Dibromochloromethane	8.84	129	401415	197.008	ug/L	99
50) 1,2-Dibromoethane	8.95	107	432593	205.282	ug/L	99
51) Chlorobenzene	9.47	112	1077964	212.081	ug/L	99
52) Ethylbenzene	9.59	91	2004942	220.759	ug/L	99
53) m,p-Xylene	9.71	106	738141	217.712	ug/L	98
54) o-xylene	10.12	106	733833	216.885	ug/L	98
55) Styrene	10.13	104	1279385	233.787	ug/L	99
56) Isopropylbenzene	10.50	105	1912852	220.961	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	740787	224.840	ug/L	99
59) 1,2,3-Trichloropropane	10.84	75	588656	215.526	ug/L	99
61) Bromoform	10.31	173	292478	183.196	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	806576	210.668	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	806987	211.268	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	794257	209.968	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	166216	201.438	ug/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	556675	237.198	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	478785	274.187	ug/L	99
69) Naphthalene	14.11	128	866438	163.596	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	470088	259.716	ug/L	98

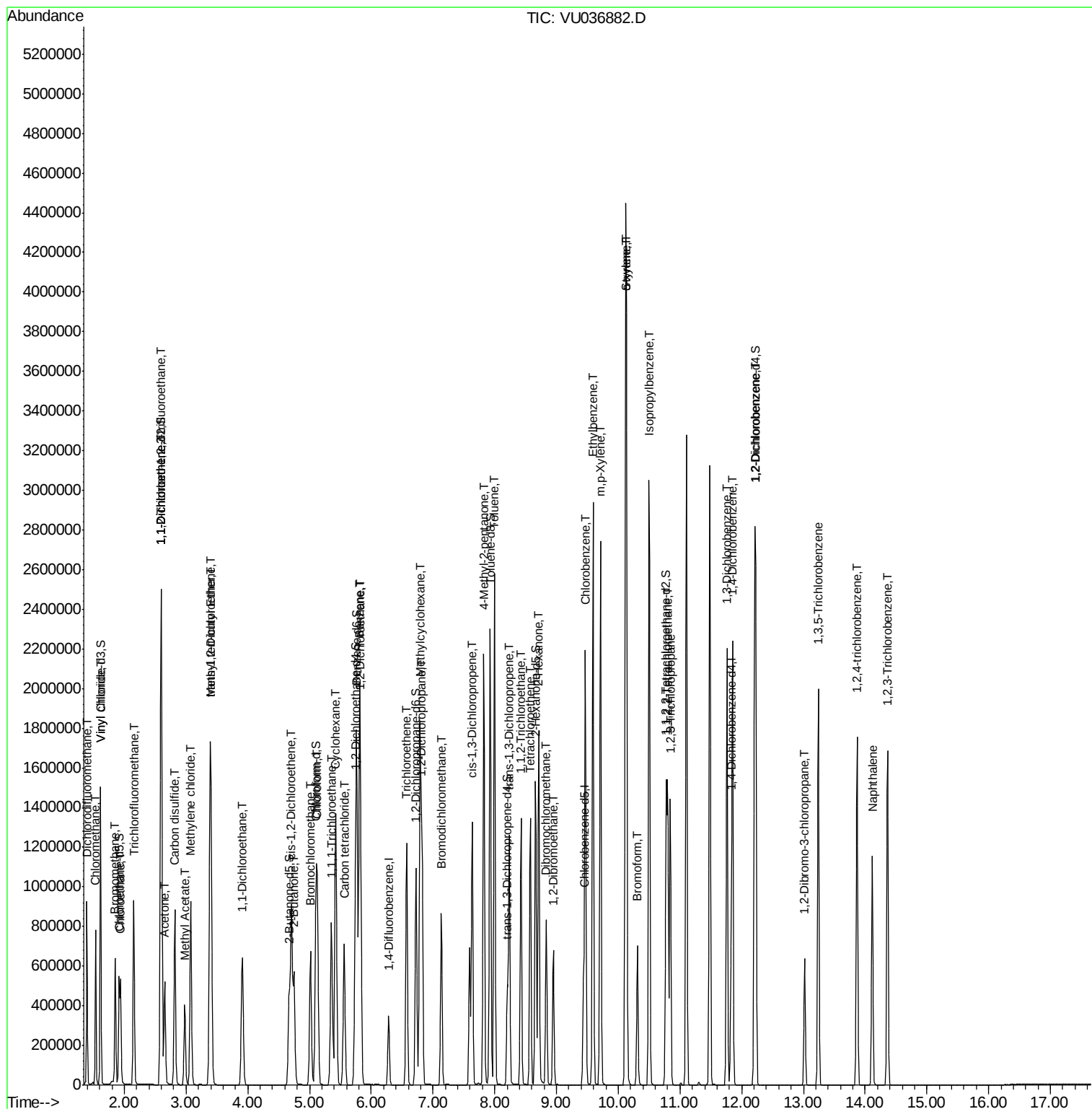
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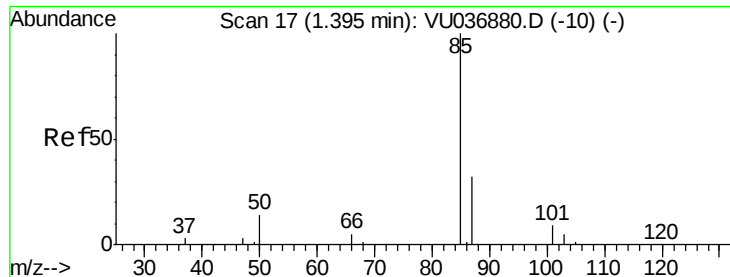
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#2

Dichlorodifluoromethane

Concen: 195.628 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampled :

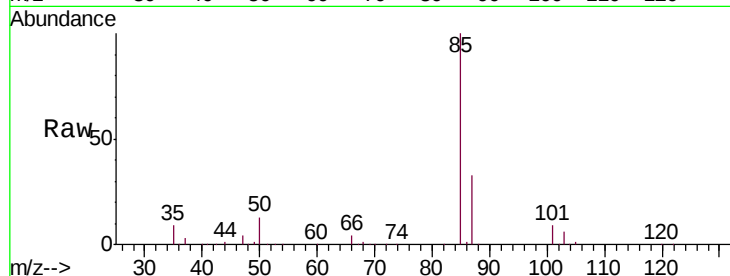
VSTD20036

Tgt Ion: 85 Resp: 471587

Ion Ratio Lower Upper

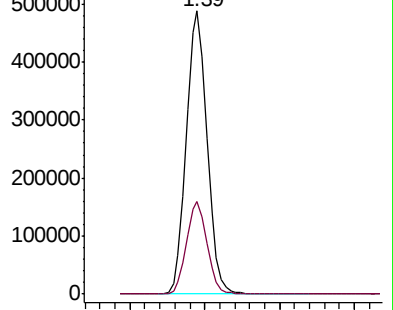
85 100

87 32.4 25.8 38.8

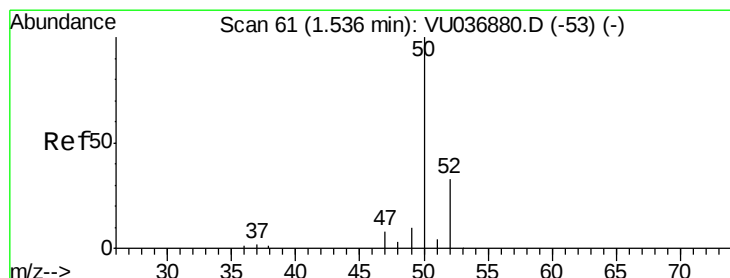
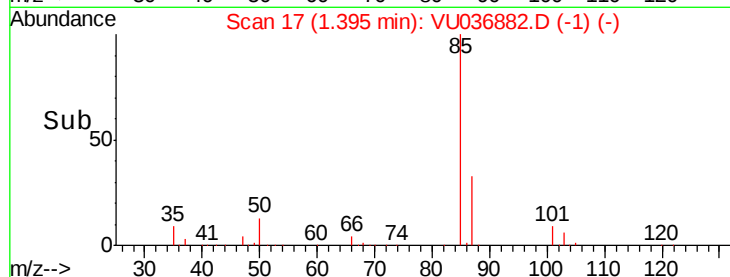


Abundance Ion 85.00 (84.70 to 85.70): VU036882.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU036882.D (-10) (-)



Time-->



#3

Chloromethane

Concen: 232.452 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036882.D

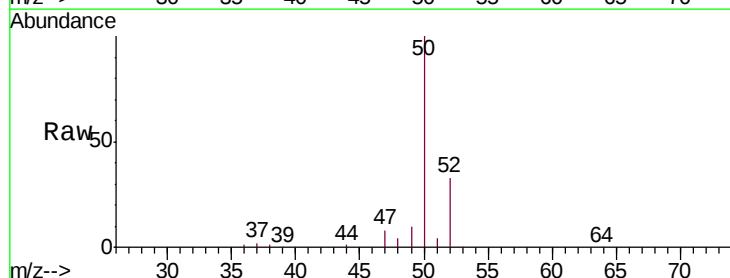
Acq: 24 Feb 2020 14:01

Tgt Ion: 50 Resp: 526146

Ion Ratio Lower Upper

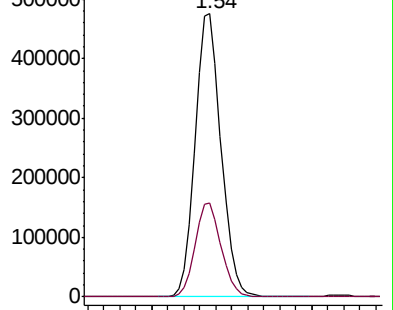
50 100

52 33.2 23.0 42.6

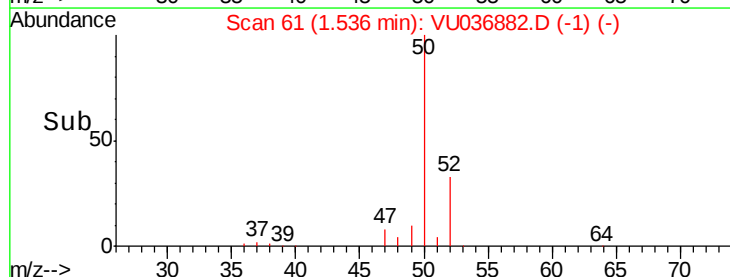


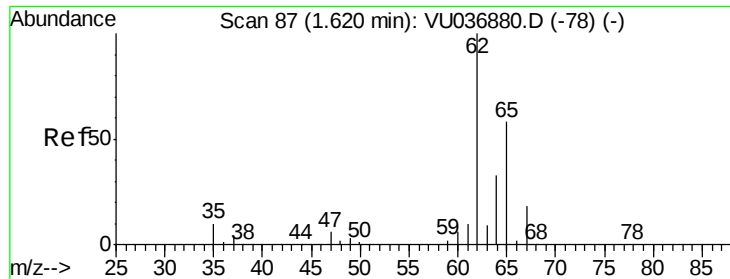
Abundance Ion 50.00 (49.70 to 50.70): VU036882.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036882.D (-53) (-)



Time-->





#5

Vinyl chloride

Concen: 247.662 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

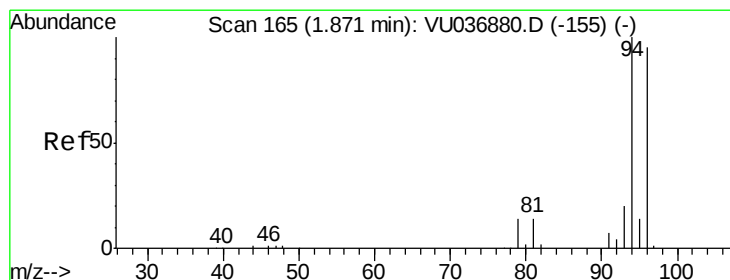
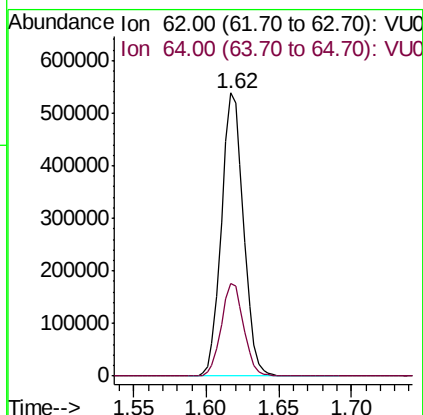
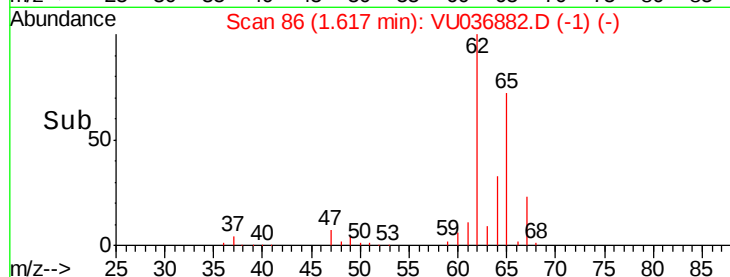
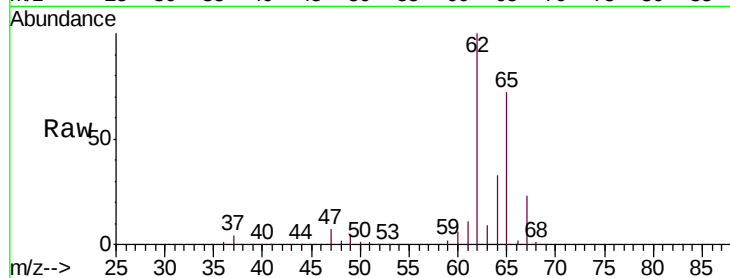
VSTD20036

Tgt Ion: 62 Resp: 565629

Ion Ratio Lower Upper

62 100

64 32.9 23.1 42.9



#6

Bromomethane

Concen: 226.048 ug/L

RT: 1.85 min Scan# 159

Delta R.T. -0.02 min

Lab File: VU036882.D

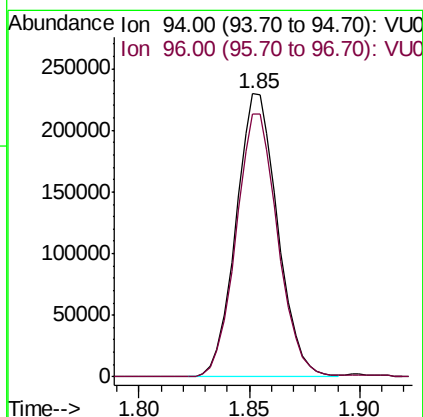
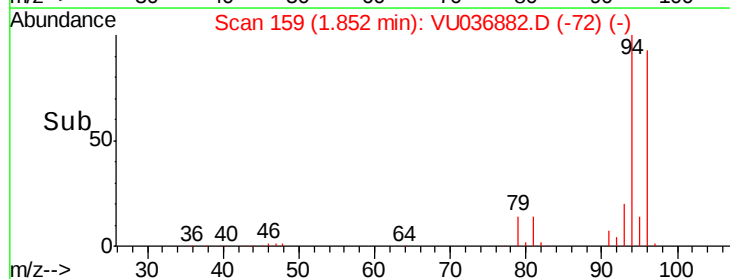
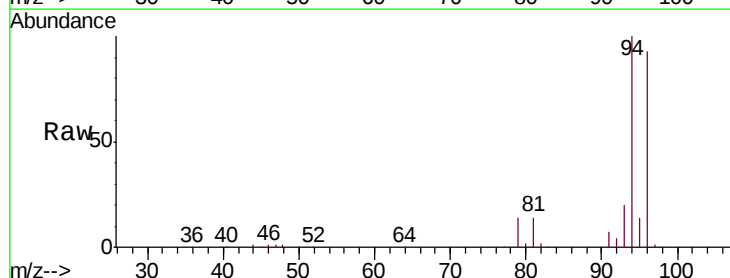
Acq: 24 Feb 2020 14:01

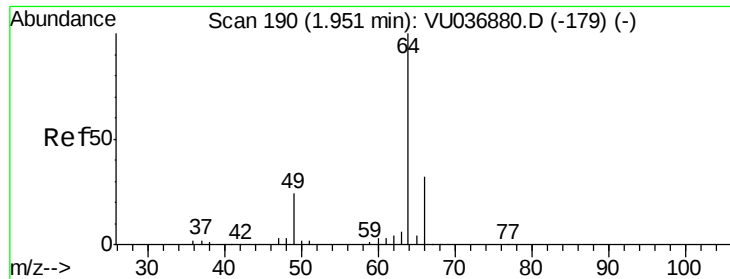
Tgt Ion: 94 Resp: 300690

Ion Ratio Lower Upper

94 100

96 92.8 66.1 122.8

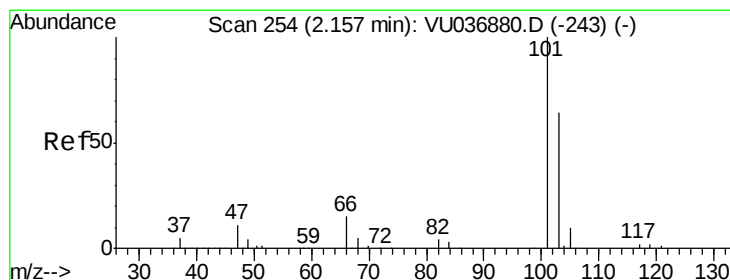
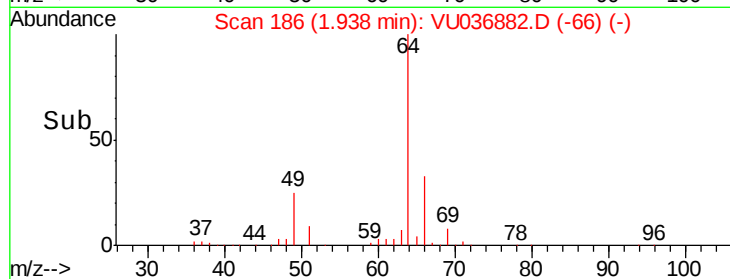
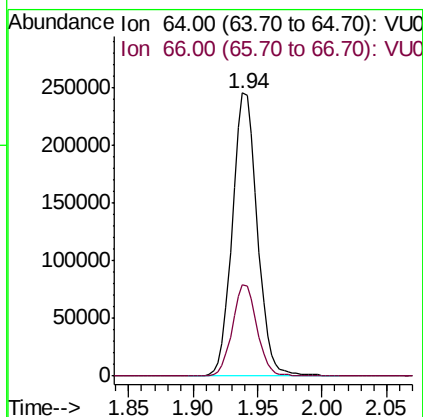
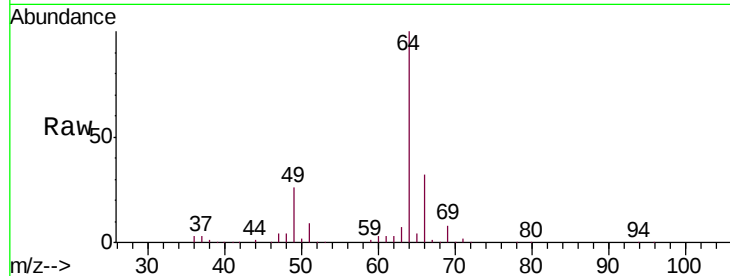




#8
 Chloroethane
 Concen: 241.217 ug/L
 RT: 1.94 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

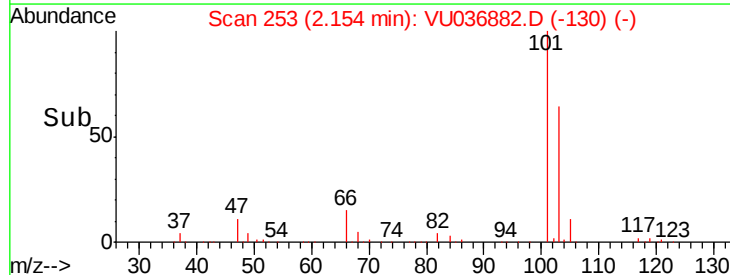
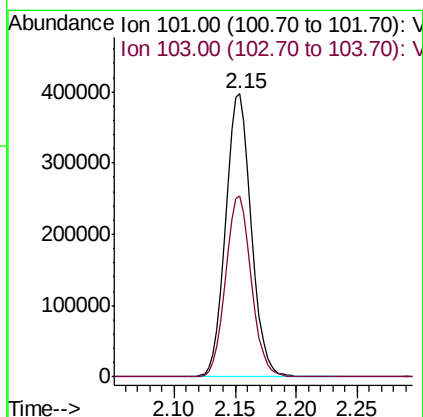
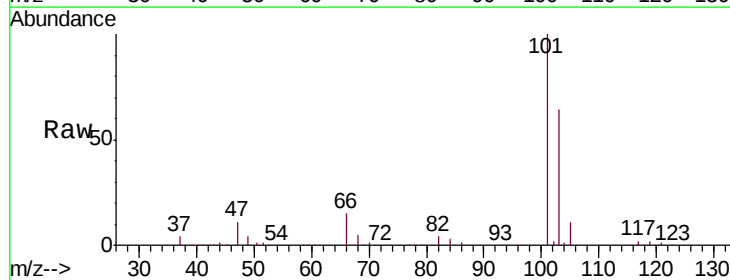
Instrument :
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 ClientSampleId :
 VSTD20036

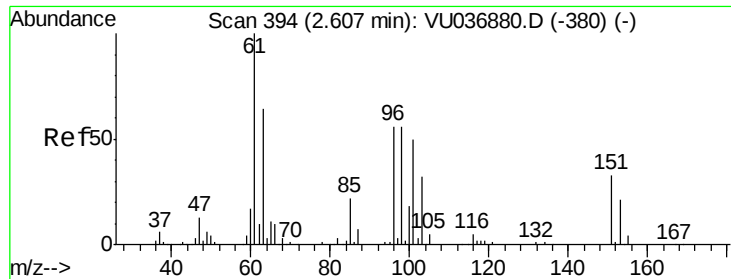
Tgt Ion: 64 Resp: 328189
 Ion Ratio Lower Upper
 64 100
 66 32.5 22.5 41.9



#9
 Trichlorofluoromethane
 Concen: 198.777 ug/L
 RT: 2.15 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

Tgt Ion: 101 Resp: 586659
 Ion Ratio Lower Upper
 101 100
 103 64.2 50.9 76.3





#10

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

Concen: 221.864 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.01 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

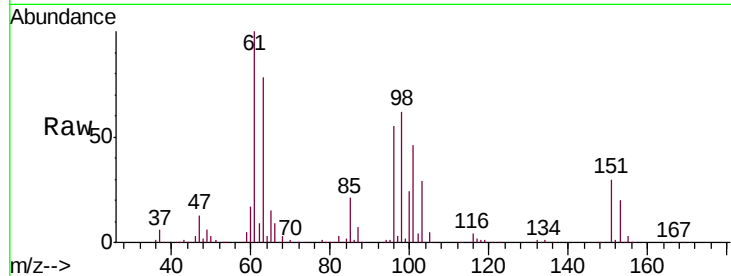
Tgt Ion: 101 Resp: 353554

Ion Ratio Lower Upper

101 100

85 45.1 36.4 54.6

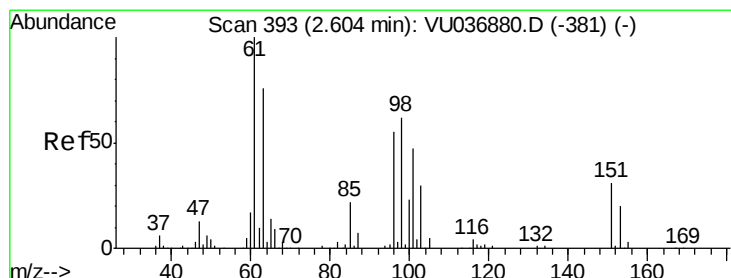
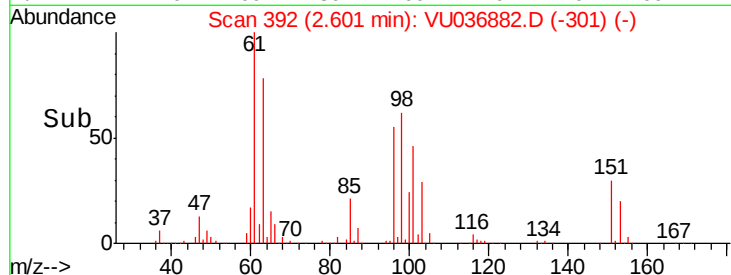
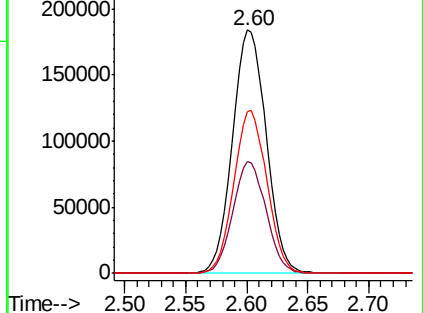
151 65.6 52.4 78.6



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: 228.933 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

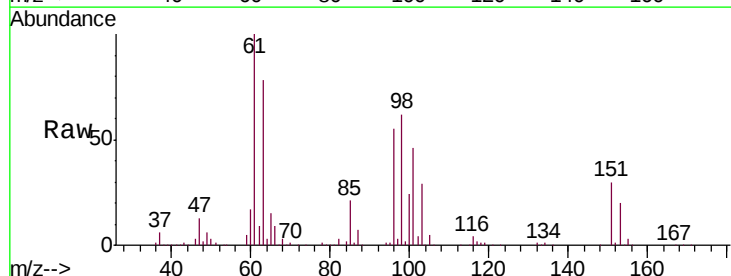
Tgt Ion: 96 Resp: 363561

Ion Ratio Lower Upper

96 100

61 180.4 127.5 236.7

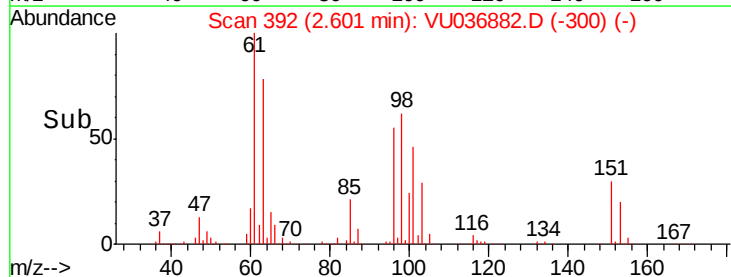
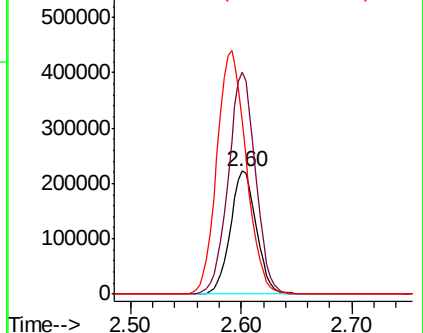
63 140.3 101.4 188.2

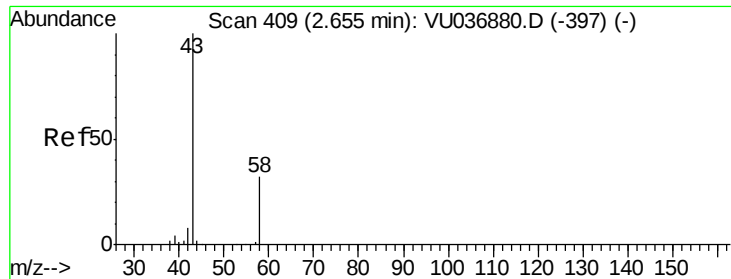


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 344.233 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

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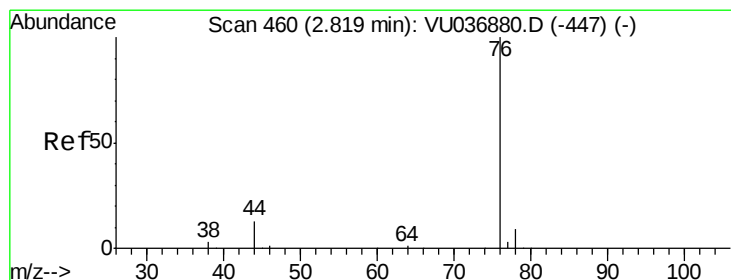
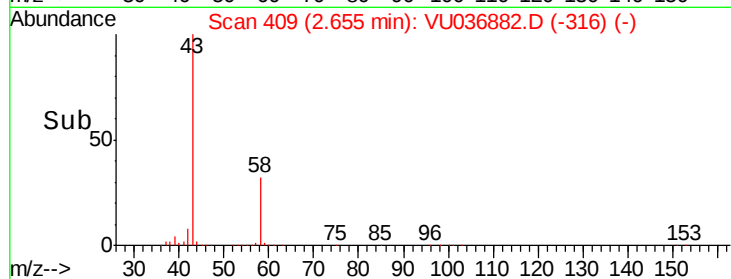
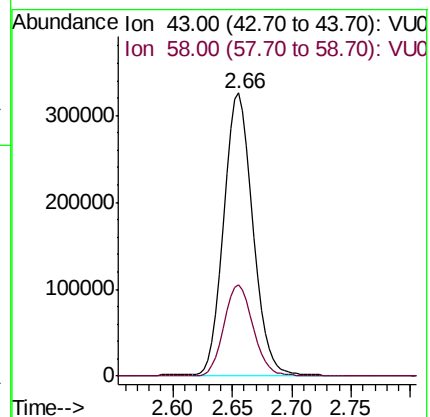
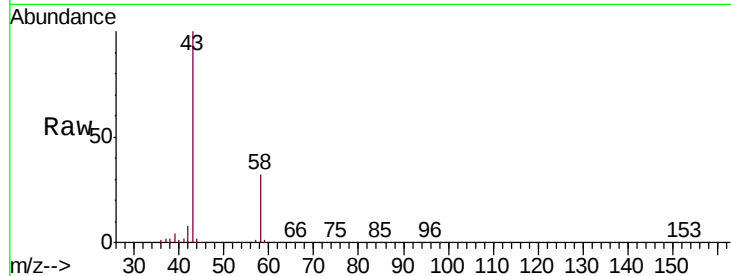
VSTD20036

Tgt Ion: 43 Resp: 552386

Ion Ratio Lower Upper

43 100

58 32.2 0.0 64.6



#14

Carbon disulfide

Concen: 226.022 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU036882.D

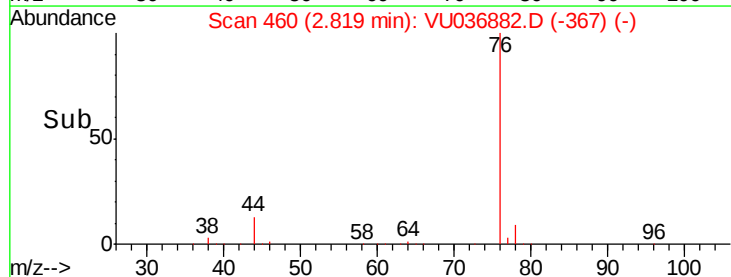
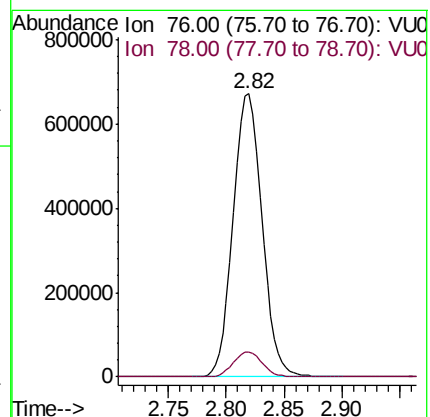
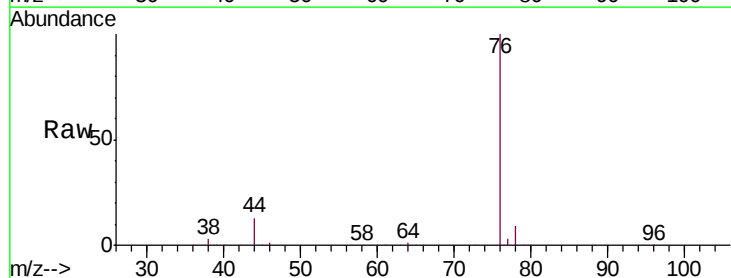
Acq: 24 Feb 2020 14:01

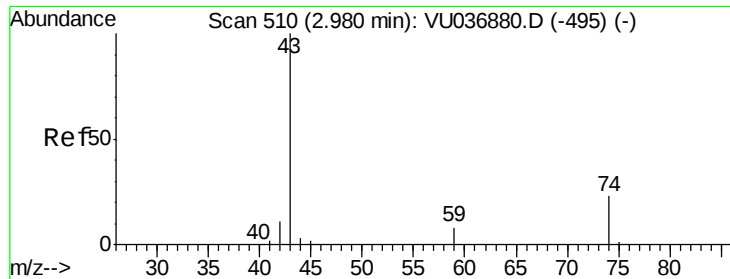
Tgt Ion: 76 Resp: 1159763

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7

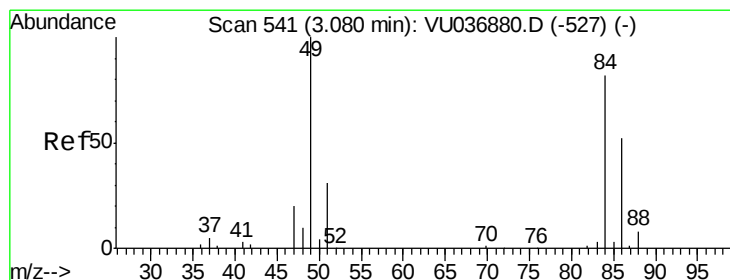
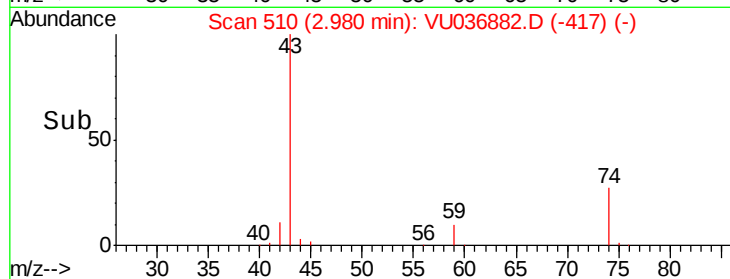
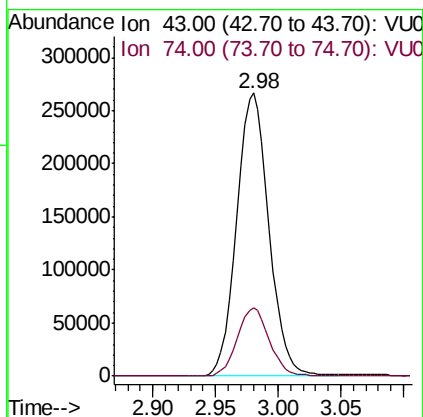
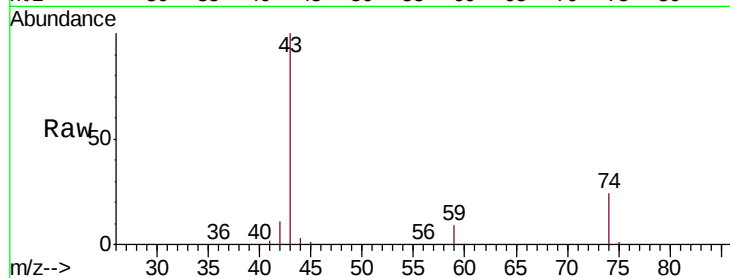




#15
Methyl Acetate
Concen: 218.712 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

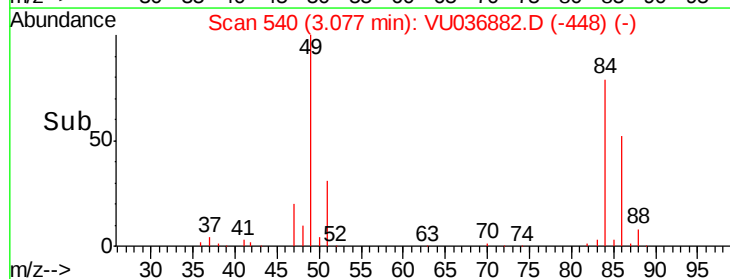
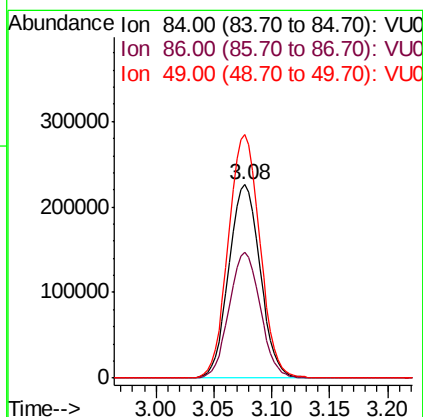
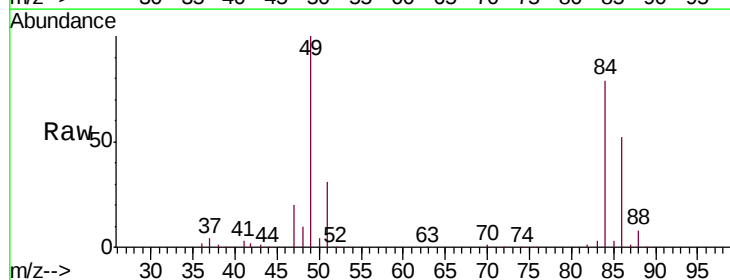
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

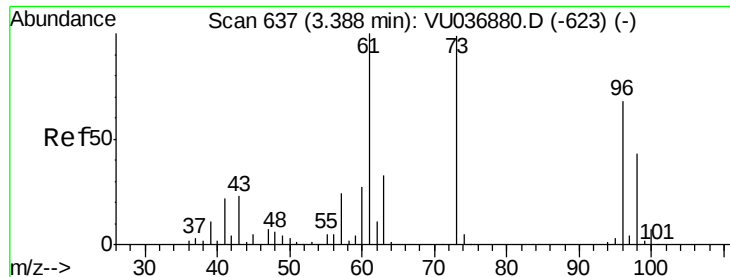
Tgt Ion: 43 Resp: 474964
Ion Ratio Lower Upper
43 100
74 24.0 19.0 28.4



#16
Methylene chloride
Concen: 217.345 ug/L
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

Tgt Ion: 84 Resp: 424273
Ion Ratio Lower Upper
84 100
86 65.1 44.4 82.5
49 125.9 85.9 159.5





#17

trans-1,2-Dichloroethene

Concen: 222.573 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

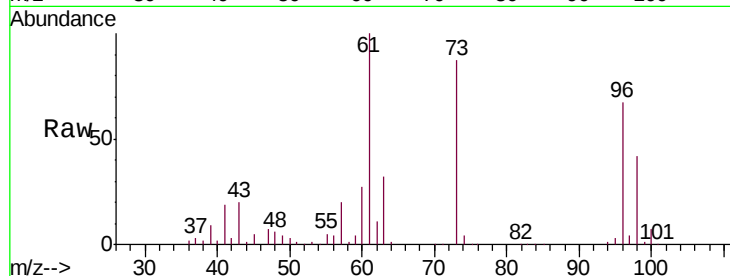
Tgt Ion: 96 Resp: 387665

Ion Ratio Lower Upper

96 100

61 148.3 103.8 192.8

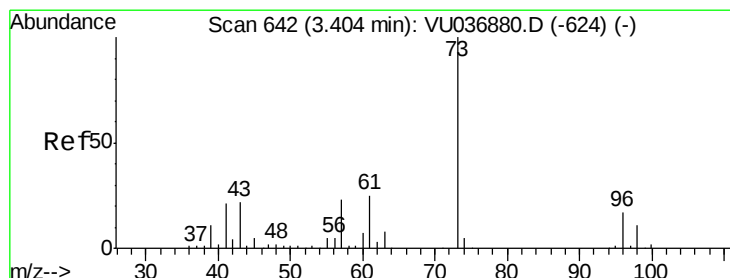
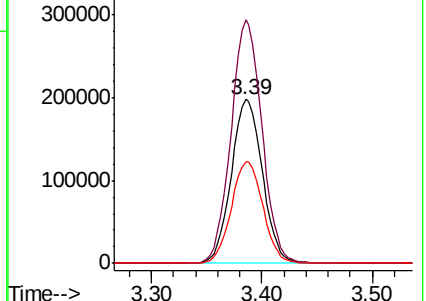
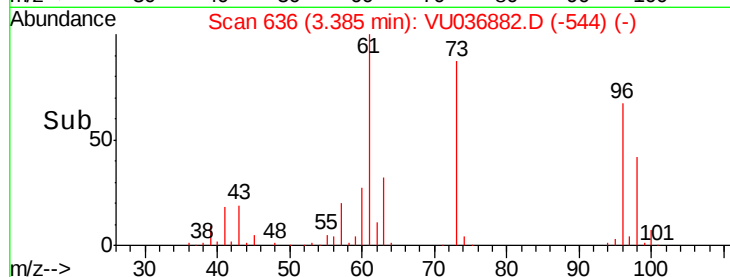
98 62.1 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU036882.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU036882.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU036882.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 216.732 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

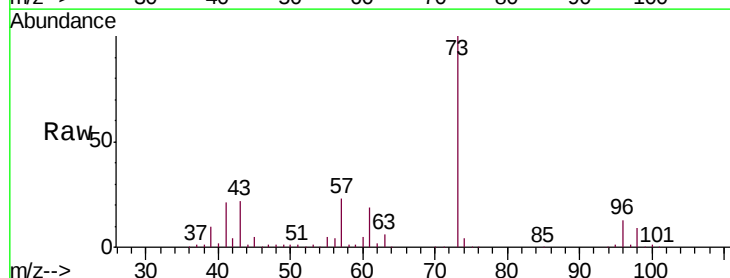
Tgt Ion: 73 Resp: 1270613

Ion Ratio Lower Upper

73 100

43 22.0 18.1 27.1

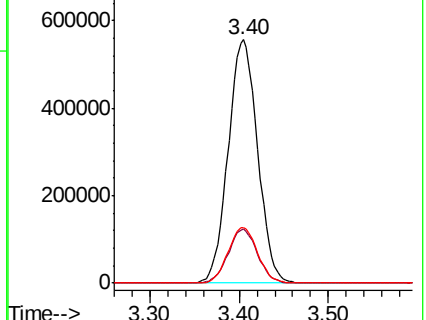
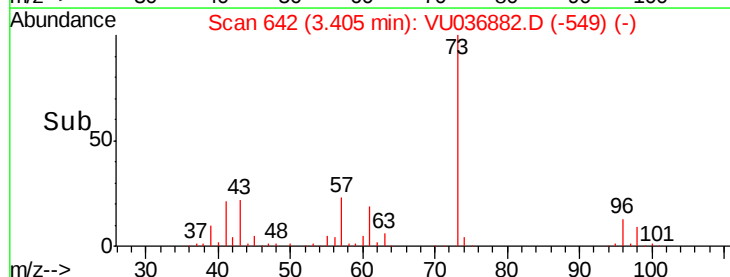
57 22.9 18.4 27.6

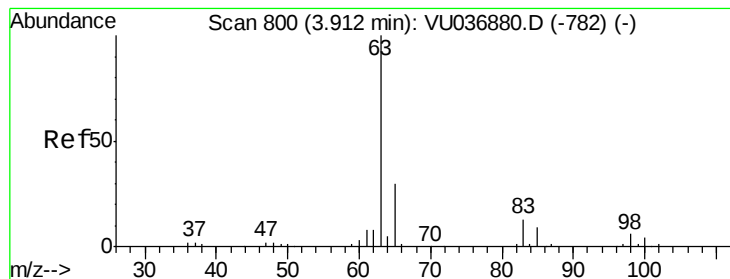


Abundance Ion 73.00 (72.70 to 73.70): VU036882.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU036882.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU036882.D (-549) (-)





#19

1,1-Dichloroethane

Concen: 226.228 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

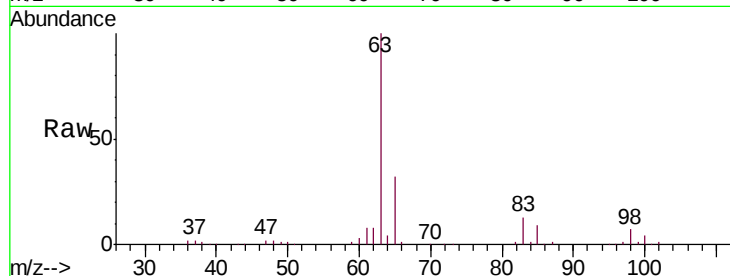
Tgt Ion: 63 Resp: 745929

Ion Ratio Lower Upper

63 100

65 31.8 21.3 39.5

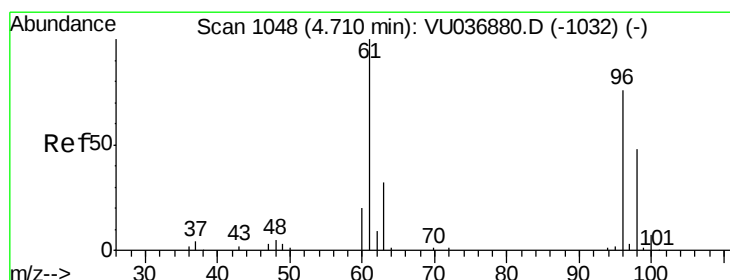
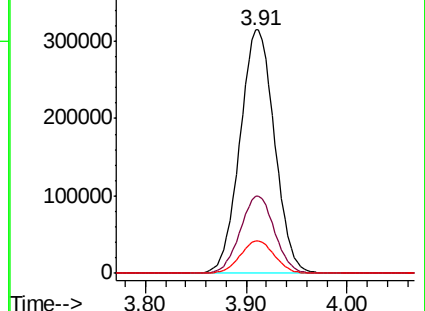
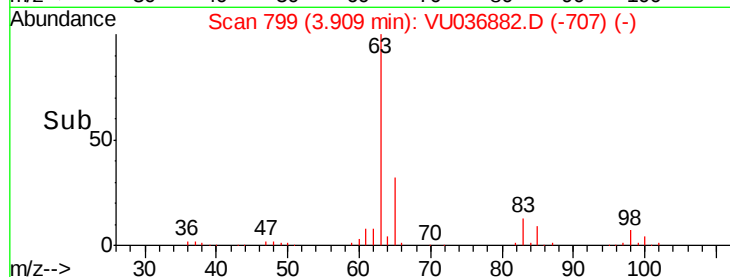
83 13.3 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU036882.D (-707) (-)

Ion 65.00 (64.70 to 65.70): VU036882.D (-707) (-)

Ion 83.00 (82.70 to 83.70): VU036882.D (-707) (-)



#20

cis-1,2-Dichloroethene

Concen: 222.964 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

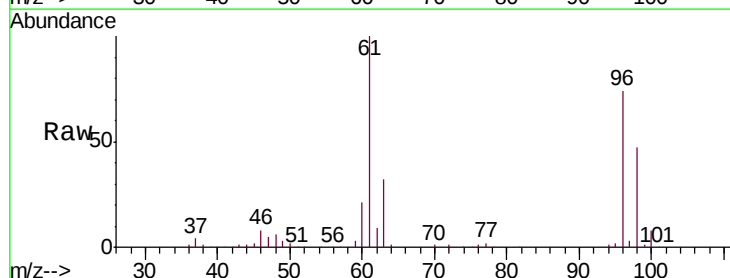
Tgt Ion: 96 Resp: 440164

Ion Ratio Lower Upper

96 100

61 134.5 93.1 172.9

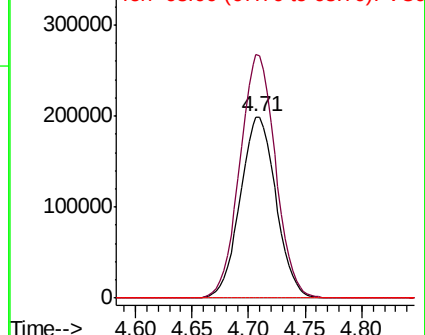
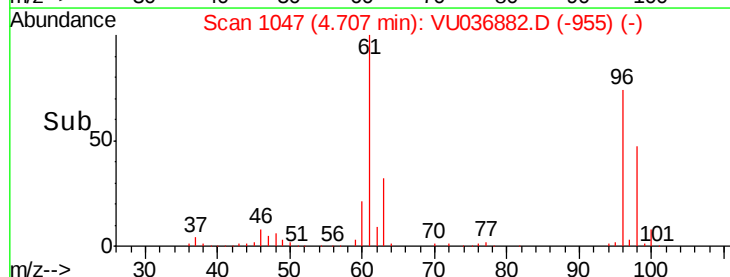
68 0.0 0.0 0.0

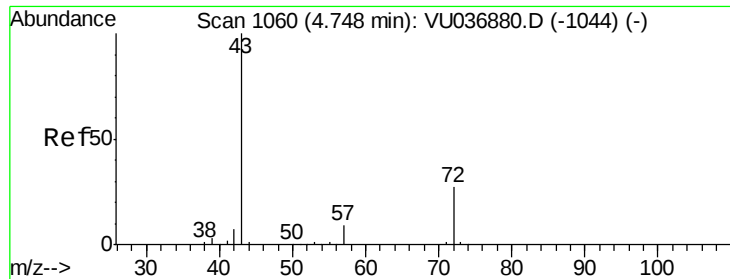


Abundance Ion 96.00 (95.70 to 96.70): VU036882.D (-955) (-)

Ion 61.00 (60.70 to 61.70): VU036882.D (-955) (-)

Ion 68.00 (67.70 to 68.70): VU036882.D (-955) (-)





#22

2-Butanone

Concen: 402.939 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

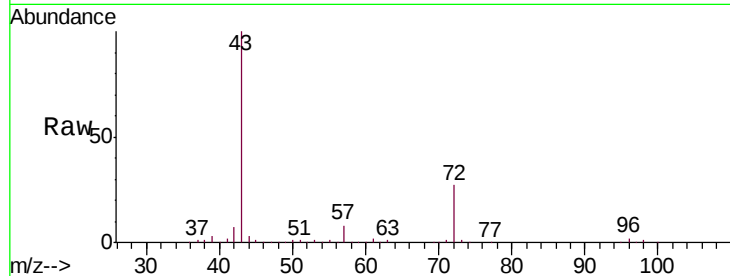
VSTD20036

Tgt Ion: 43 Resp: 738993

Ion Ratio Lower Upper

43 100

72 28.0 13.9 41.6



Abundance Ion 43.00 (42.70 to 43.70): VU036882.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU036882.D (-967) (-)

4.75

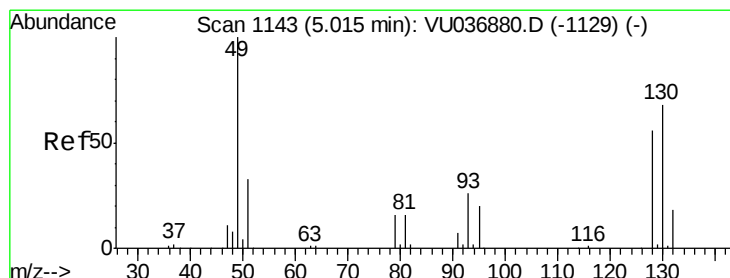
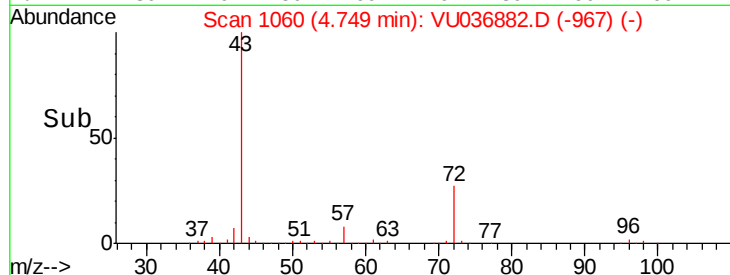
300000

200000

100000

0

Time-->



#23

Bromochloromethane

Concen: 208.520 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Tgt Ion: 128 Resp: 197441

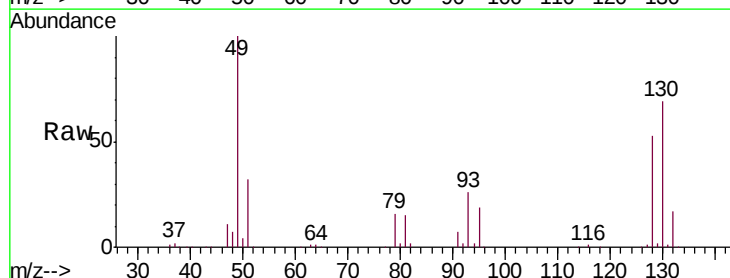
Ion Ratio Lower Upper

128 100

49 187.1 126.5 234.9

130 129.4 86.0 159.8

51 59.9 47.3 70.9



Abundance Ion 128.00 (127.70 to 128.70): VU036882.D (-1050) (-)

Ion 49.00 (48.70 to 49.70): VU036882.D (-1050) (-)

Ion 130.00 (129.70 to 130.70): VU036882.D (-1050) (-)

Ion 51.00 (50.70 to 51.70): VU036882.D (-1050) (-)

250000

200000

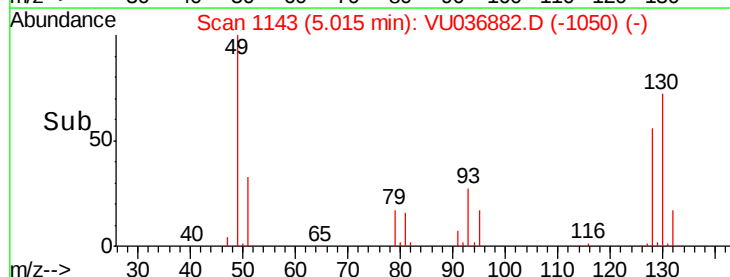
150000

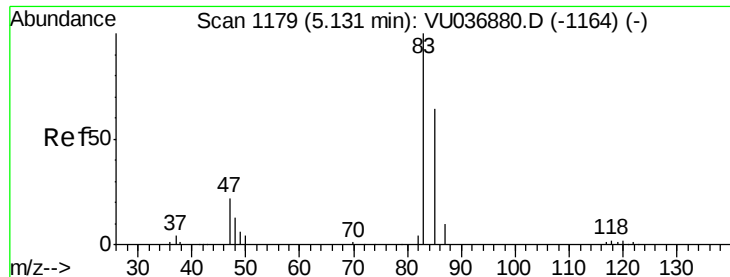
100000

50000

0

Time-->

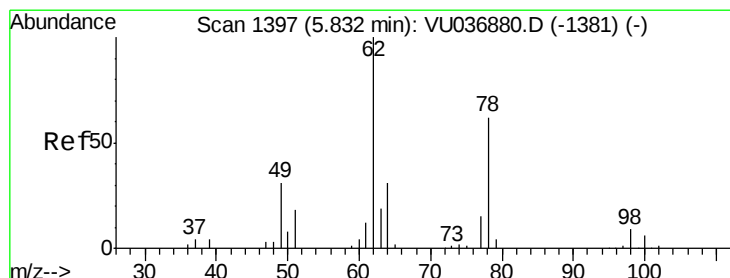
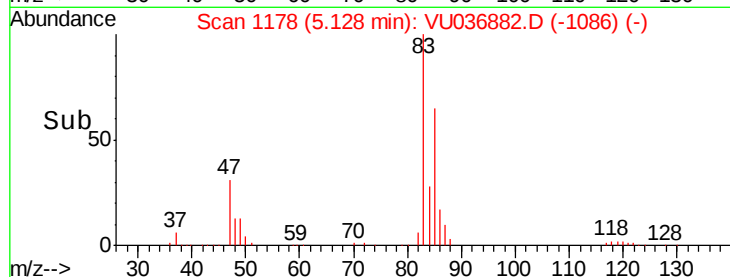
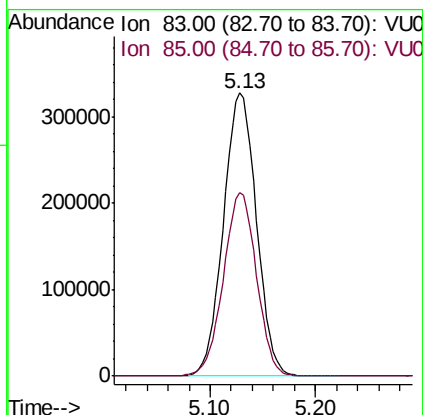
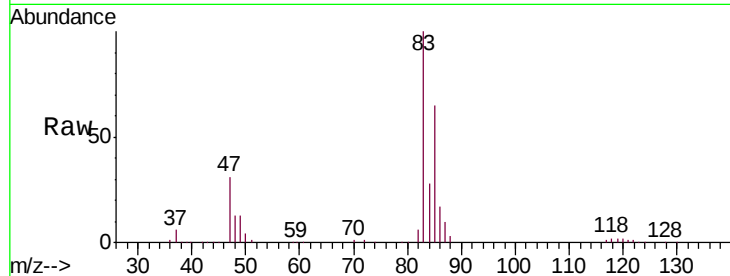




#25
Chloroform
Concen: 205.413 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. -0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

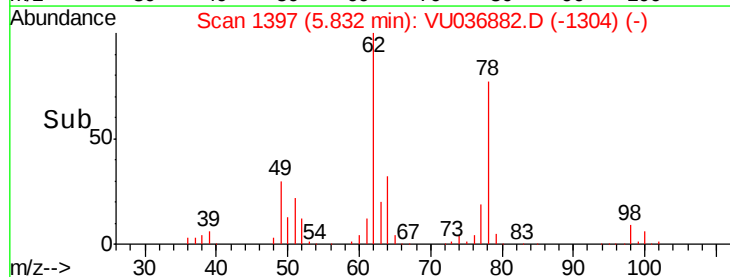
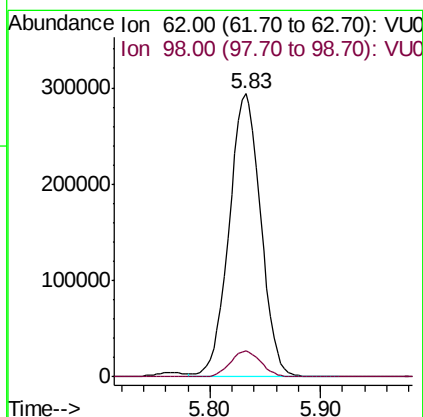
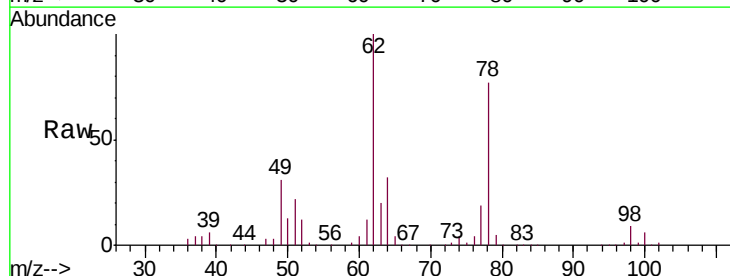
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

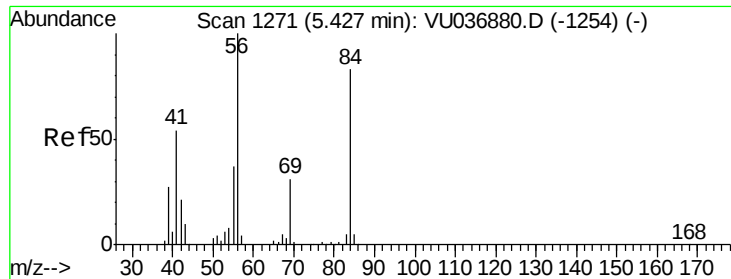
Tgt Ion: 83 Resp: 709288
Ion Ratio Lower Upper
83 100
85 64.8 45.1 83.9



#27
1,2-Dichloroethane
Concen: 211.891 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

Tgt Ion: 62 Resp: 583219
Ion Ratio Lower Upper
62 100
98 9.0 7.1 10.7

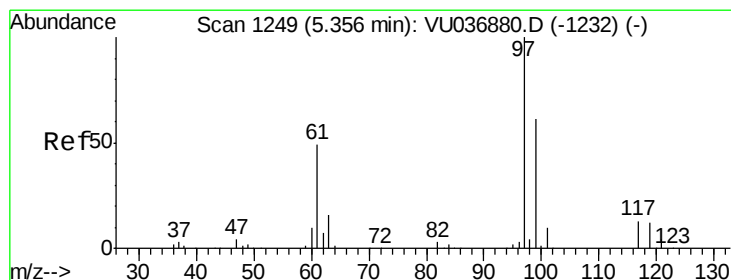
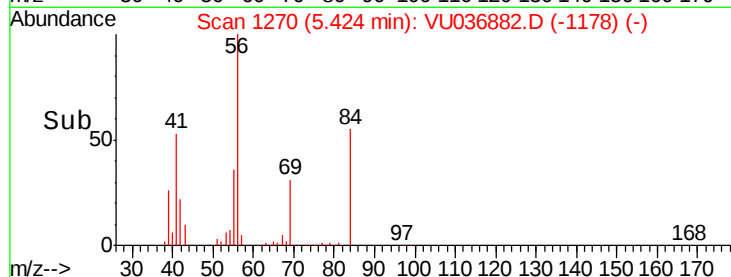
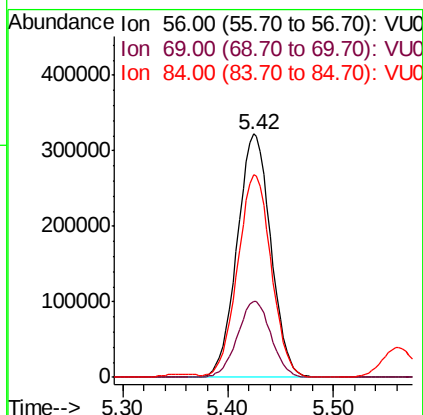
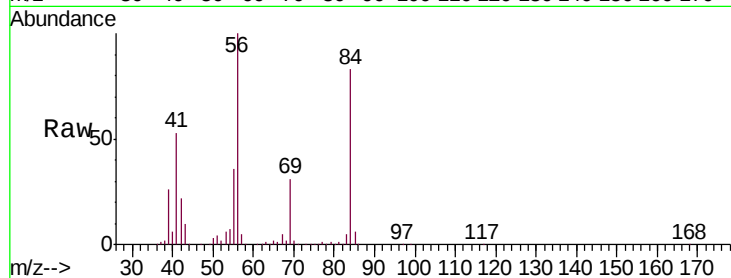




#29
Cyclohexane
Concen: 224.678 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

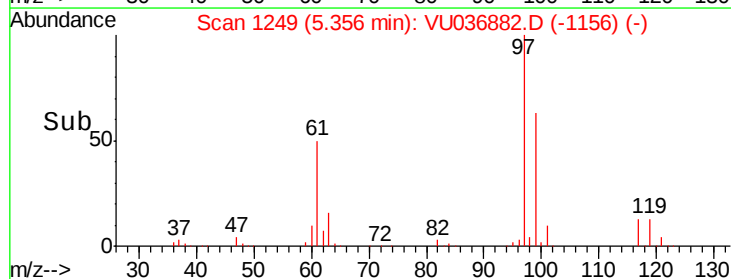
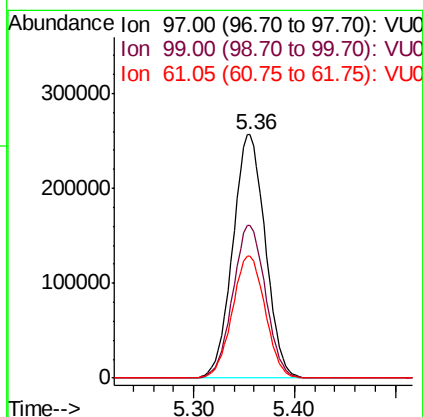
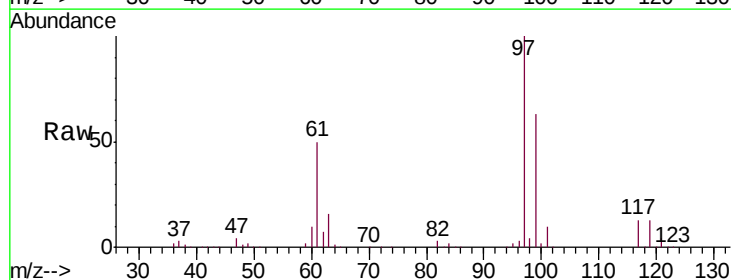
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

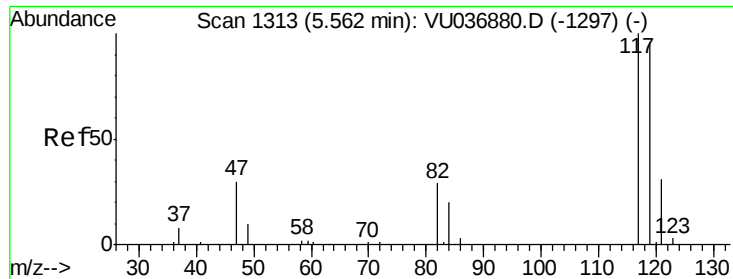
Tgt Ion: 56 Resp: 714190
Ion Ratio Lower Upper
56 100
69 31.0 24.6 37.0
84 83.3 67.0 100.4



#30
1,1,1-Trichloroethane
Concen: 190.547 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

Tgt Ion: 97 Resp: 573187
Ion Ratio Lower Upper
97 100
99 63.2 50.4 75.6
61 50.8 40.3 60.5

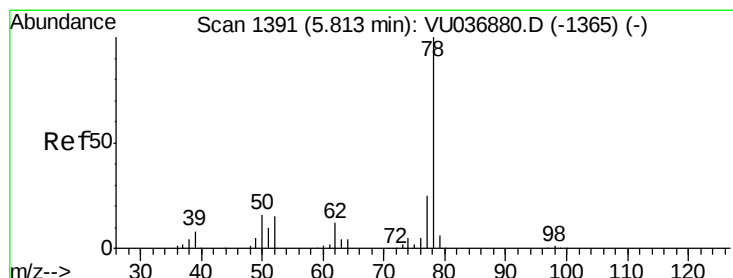
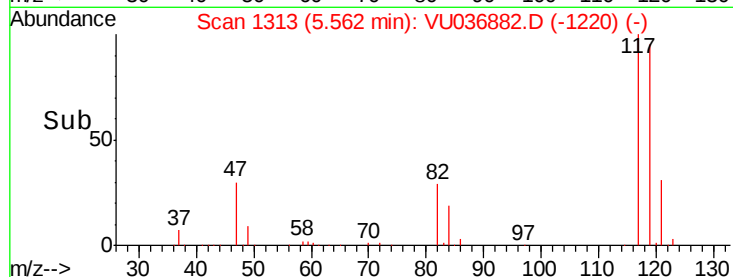
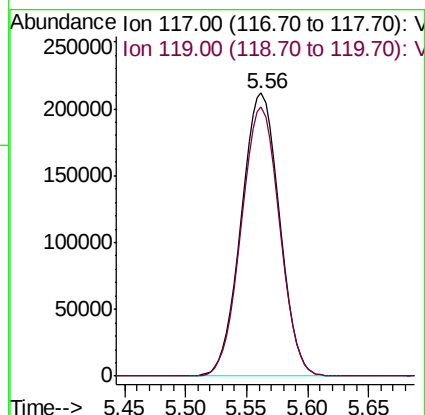
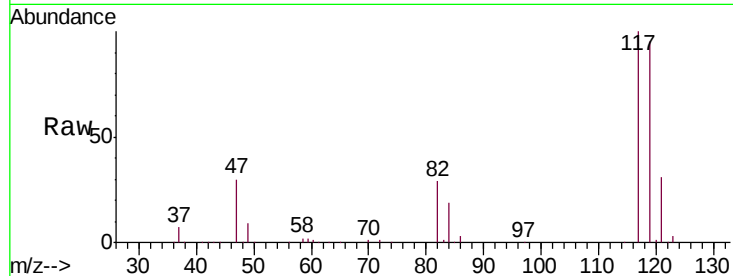




#31
Carbon tetrachloride
Concen: 182.486 ug/L
RT: 5.56 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

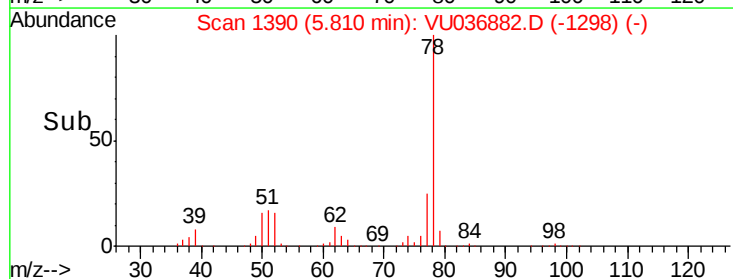
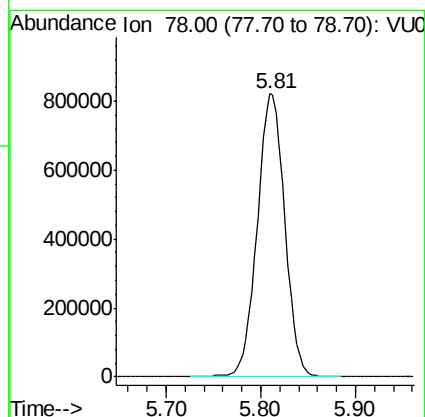
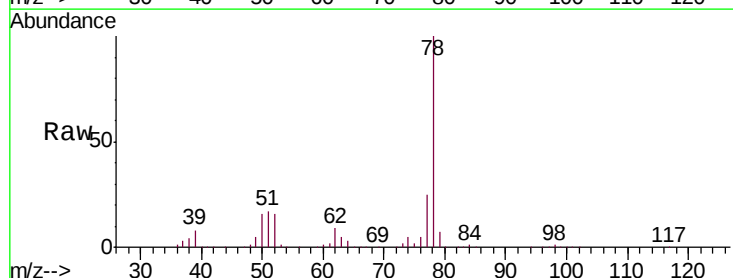
Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

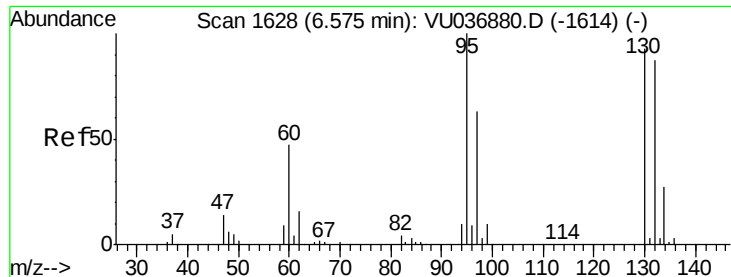
Tgt Ion:117 Resp: 459624
Ion Ratio Lower Upper
117 100
119 95.2 77.2 115.8



#33
Benzene
Concen: 218.787 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. -0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

Tgt Ion: 78 Resp: 1657470

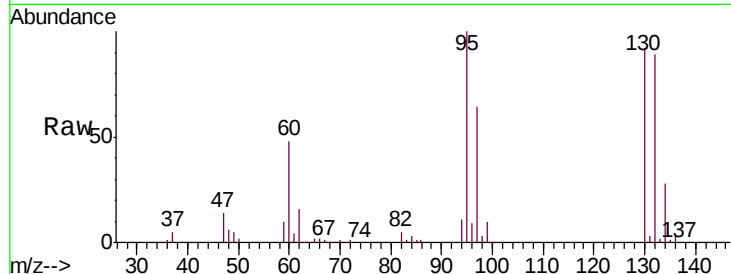




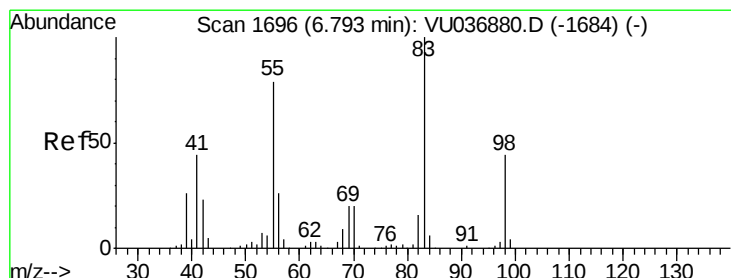
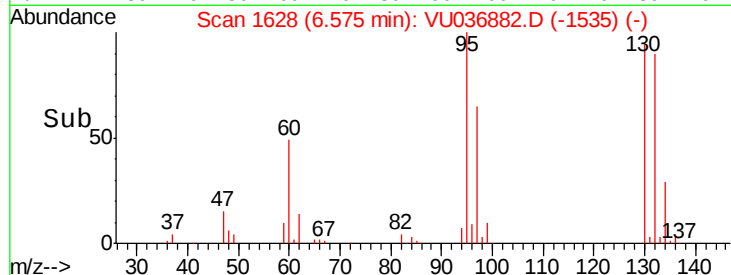
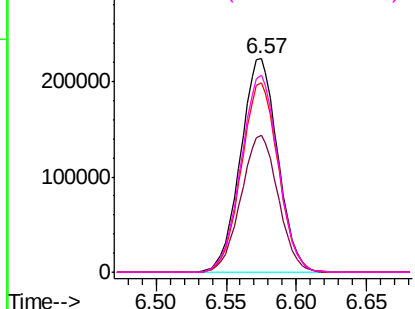
#34
 Trichloroethene
 Concen: 206.701 ug/L
 RT: 6.57 min Scan# 1628
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

Tgt Ion: 95 Resp: 414066
 Ion Ratio Lower Upper
 95 100
 97 64.0 44.1 81.9
 132 88.7 60.6 112.6
 130 92.3 64.9 120.5

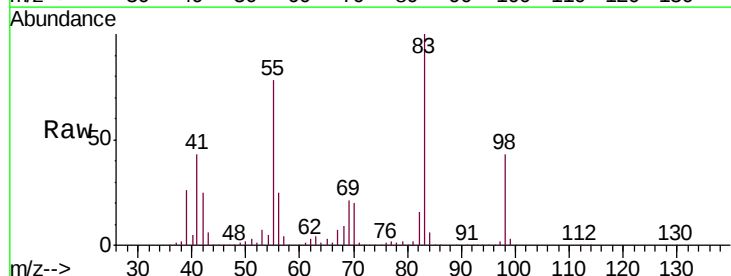


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

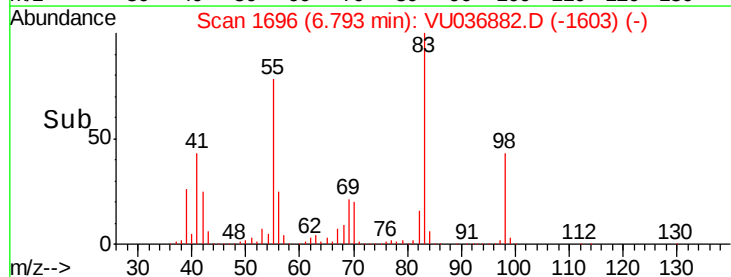
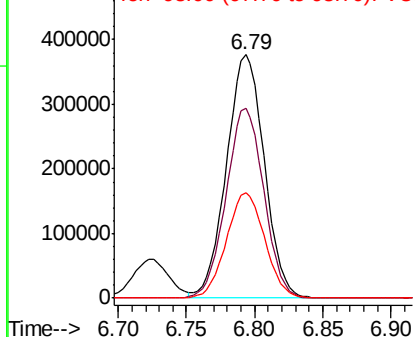


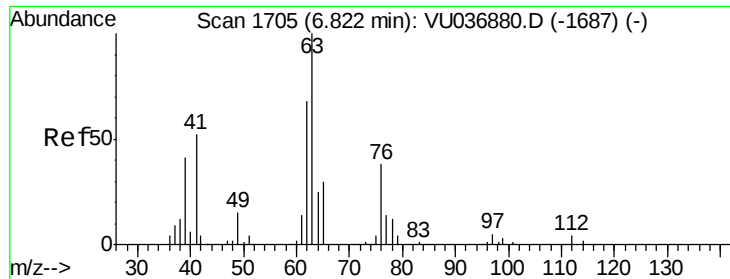
#35
 Methylcyclohexane
 Concen: 229.148 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

Tgt Ion: 83 Resp: 726798
 Ion Ratio Lower Upper
 83 100
 55 77.7 62.6 93.8
 98 43.6 35.1 52.7



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0

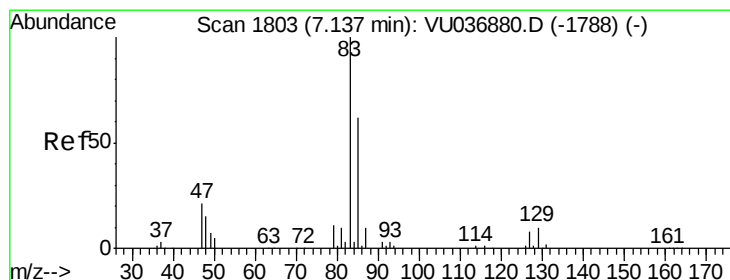
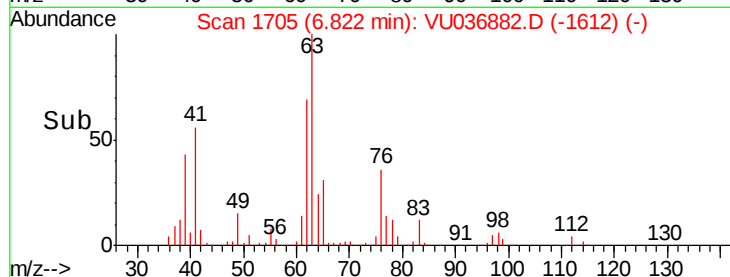
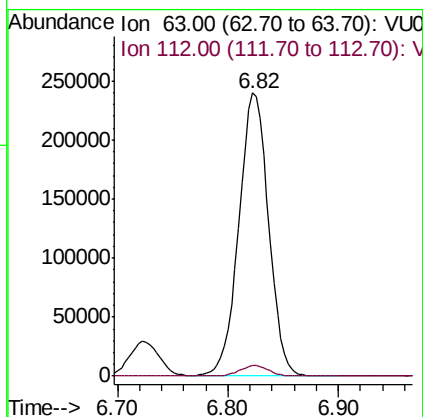
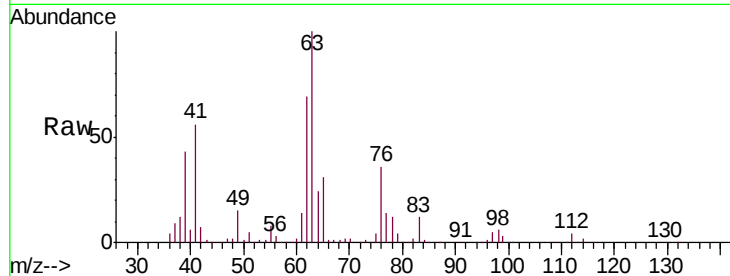




#37
 1,2-Dichloropropane
 Concen: 222.620 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

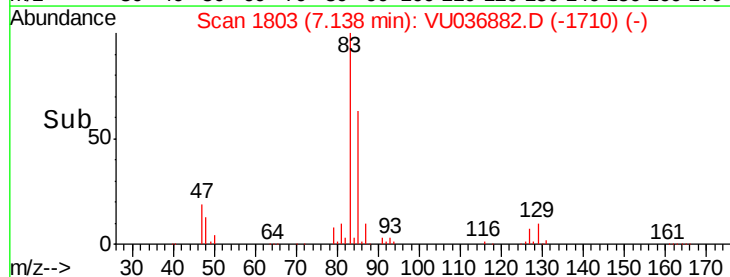
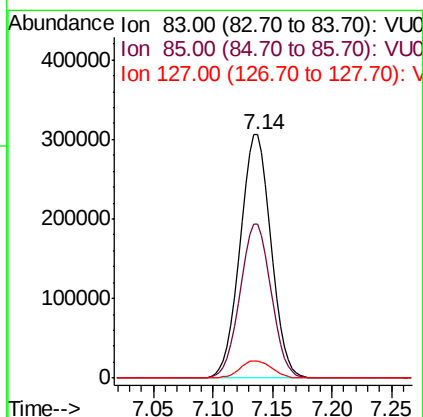
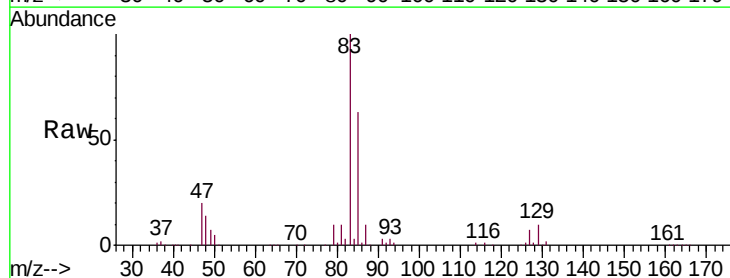
Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20036

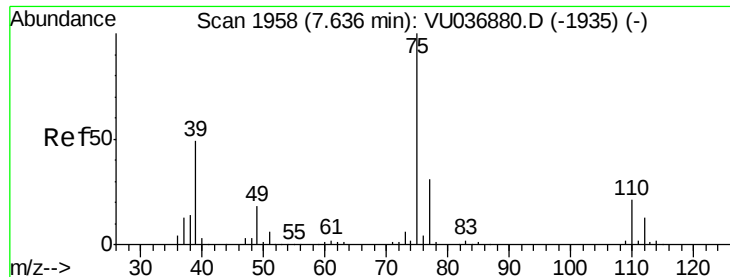
Tgt Ion: 63 Resp: 447380
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.0 4.6



#38
 Bromodichloromethane
 Concen: 205.574 ug/L
 RT: 7.14 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

Tgt Ion: 83 Resp: 551231
 Ion Ratio Lower Upper
 83 100
 85 63.2 43.6 81.0
 127 7.1 6.0 9.0

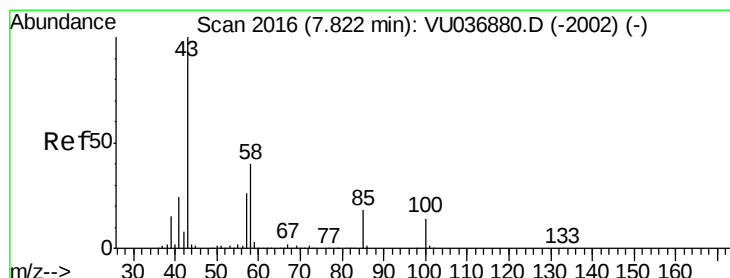
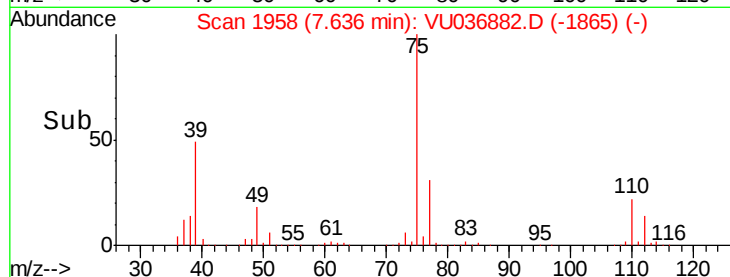
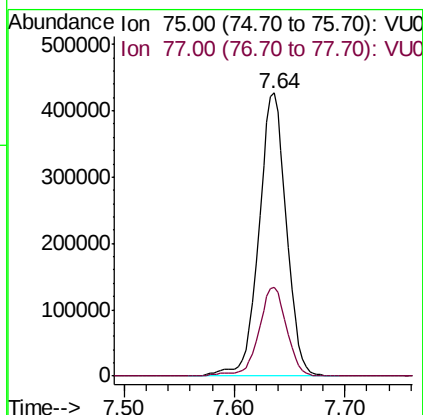
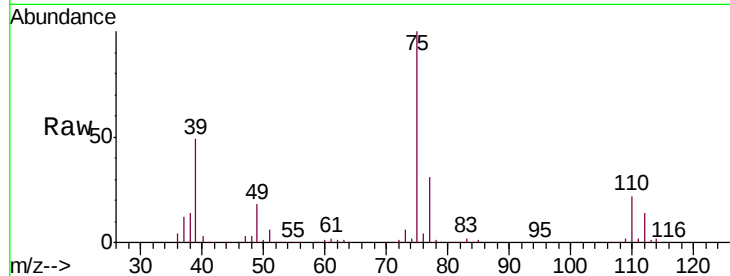




#39
 cis-1,3-Dichloropropene
 Concen: 228.095 ug/L
 RT: 7.64 min Scan# 1958
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

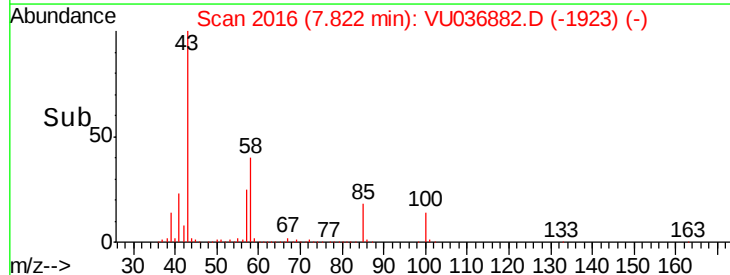
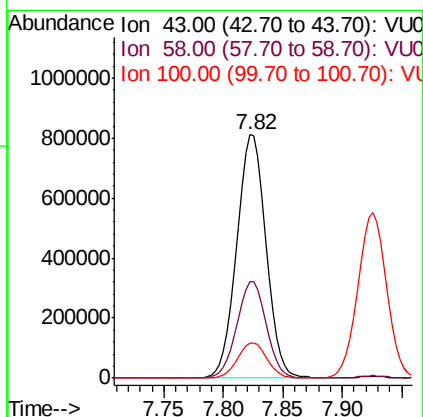
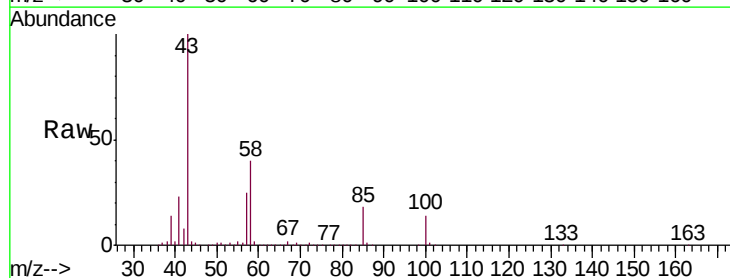
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

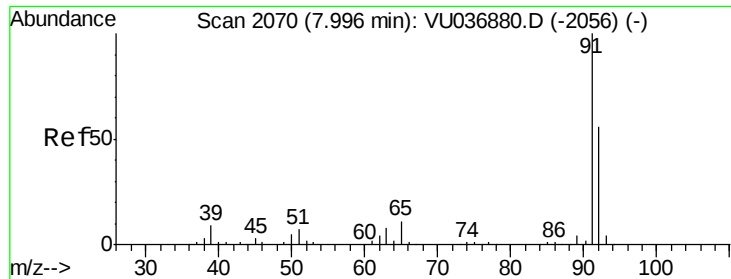
Tgt Ion: 75 Resp: 735202
 Ion Ratio Lower Upper
 75 100
 77 31.4 22.0 41.0



#40
 4-Methyl-2-pentanone
 Concen: 432.374 ug/L
 RT: 7.82 min Scan# 2016
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

Tgt Ion: 43 Resp: 1385407
 Ion Ratio Lower Upper
 43 100
 58 39.7 31.8 47.6
 100 14.7 11.5 17.3





#42

Toluene

Concen: 219.035 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

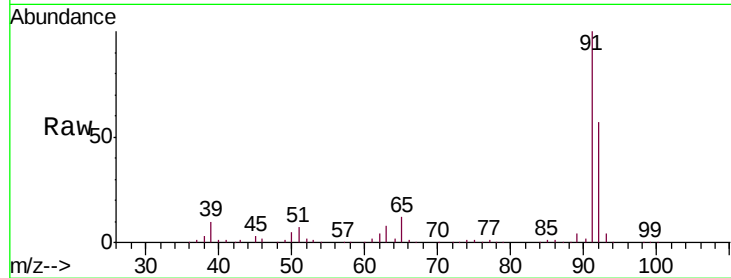
VSTD20036

Tgt Ion: 91 Resp: 1795812

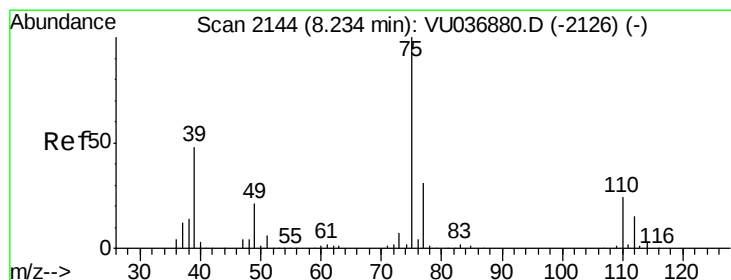
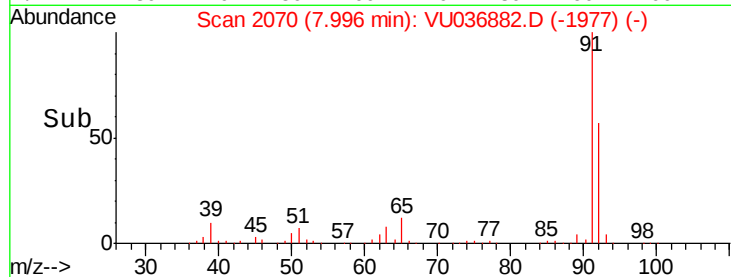
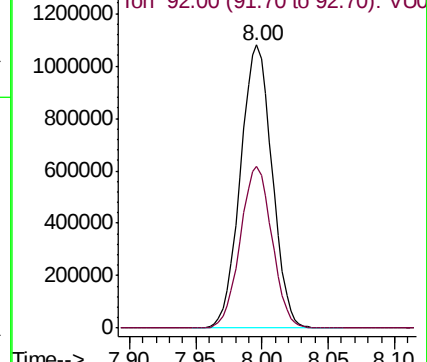
Ion Ratio Lower Upper

91 100

92 57.0 39.4 73.2



Abundance Ion 91.00 (90.70 to 91.70): VU036882.D (-1977) (-)



#44

trans-1,3-Dichloropropene

Concen: 221.110 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU036882.D

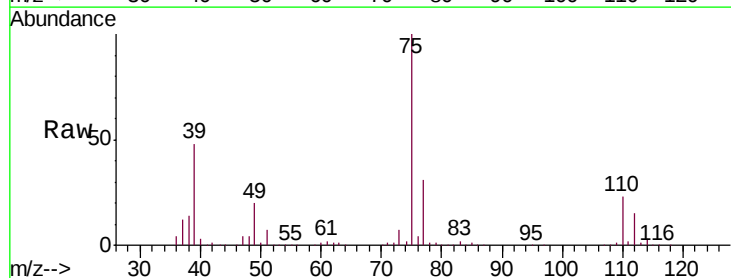
Acq: 24 Feb 2020 14:01

Tgt Ion: 75 Resp: 649872

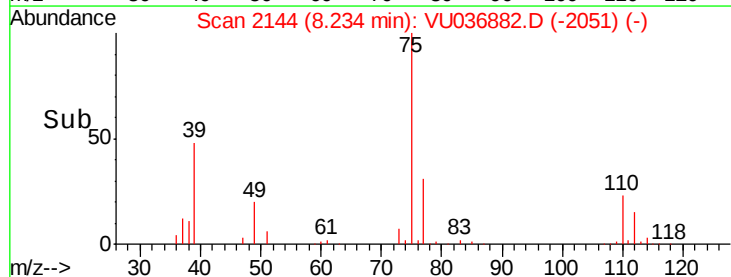
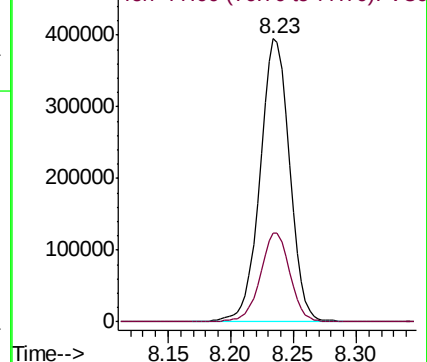
Ion Ratio Lower Upper

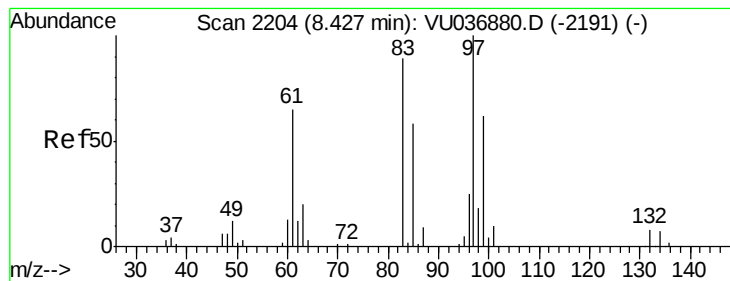
75 100

77 31.2 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU036882.D (-2051) (-)





#45

1,1,2-Trichloroethane

Concen: 211.476 ug/L

RT: 8.43 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

Tgt Ion: 97 Resp: 401485

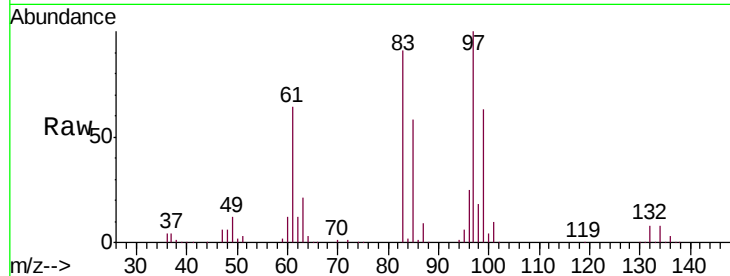
Ion Ratio Lower Upper

97 100

99 62.9 43.6 81.0

83 90.6 62.7 116.5

85 58.2 40.3 74.9

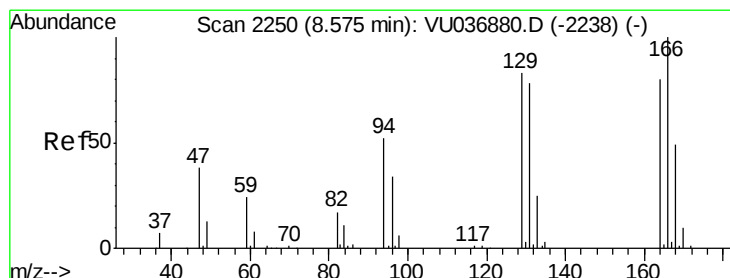
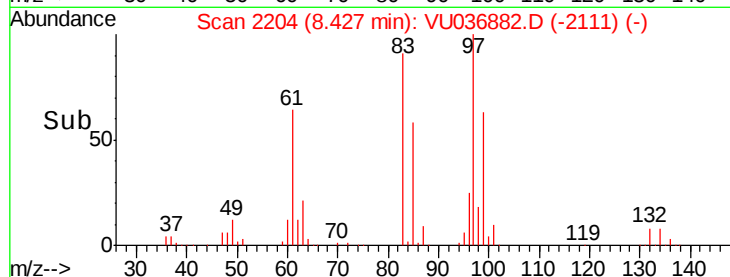
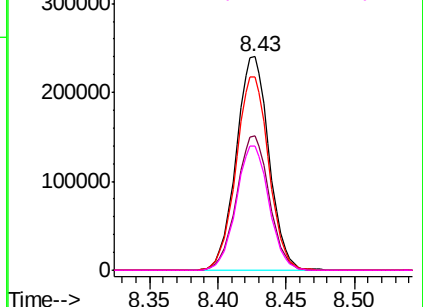


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 201.992 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Tgt Ion: 164 Resp: 270290

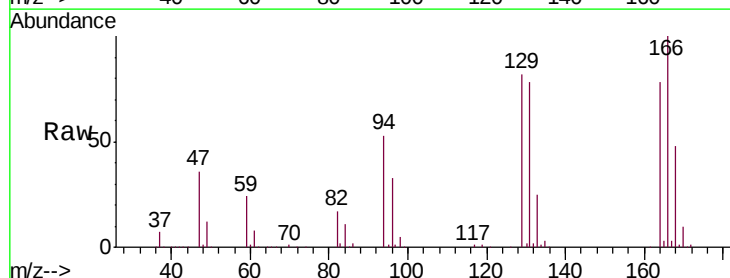
Ion Ratio Lower Upper

164 100

129 104.8 72.0 133.8

131 99.4 67.9 126.1

166 128.1 87.1 161.7

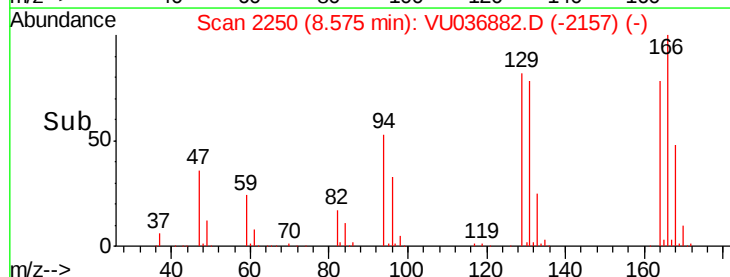
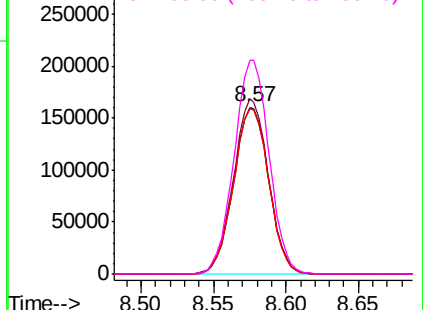


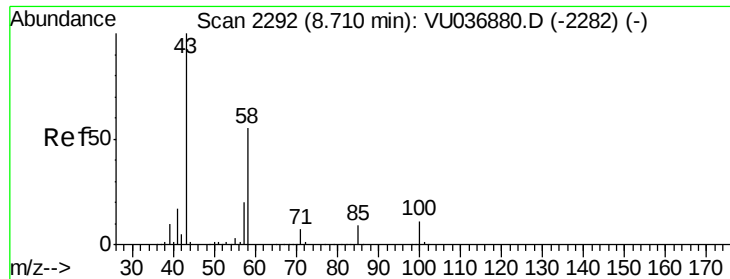
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

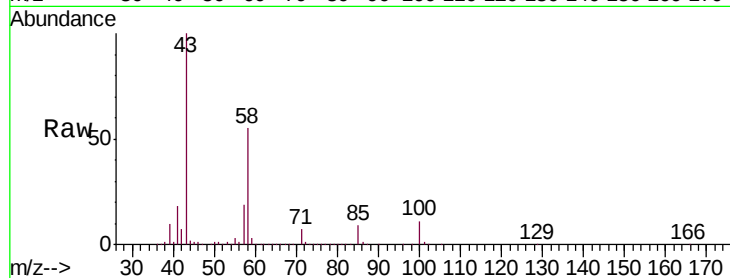




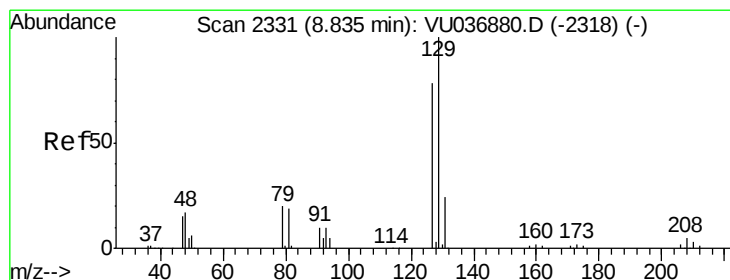
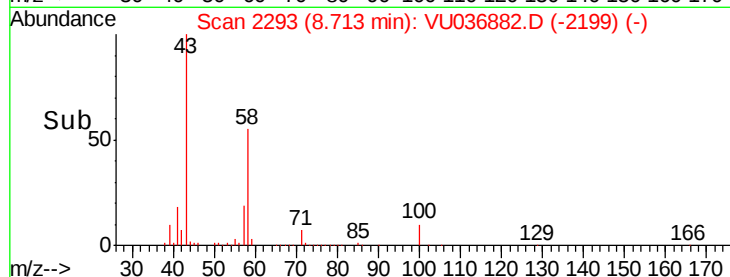
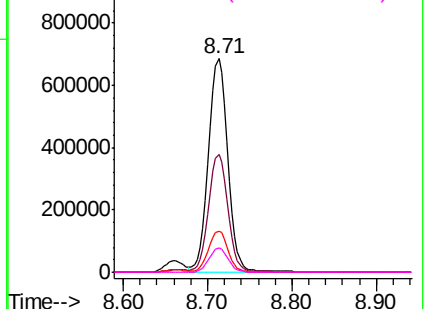
#48
2-Hexanone
Concen: 431.330 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

Instrument :
MSVOA_U
ClientSampleId :
VSTD20036

Tgt Ion: 43 Resp: 1101029
Ion Ratio Lower Upper
43 100
58 55.3 43.5 65.3
57 19.2 15.1 22.7
100 11.1 8.7 13.1

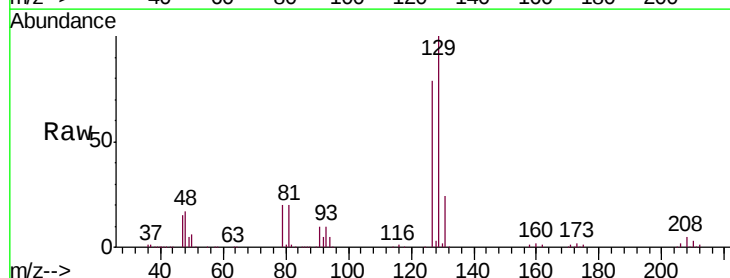


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

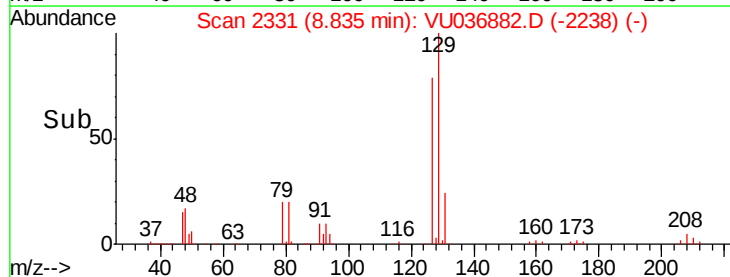
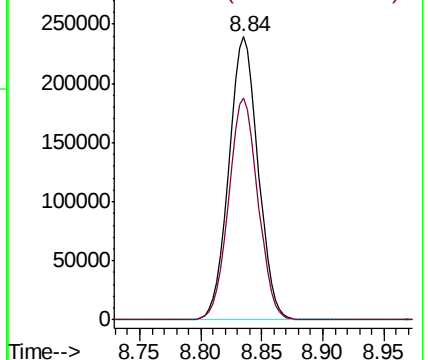


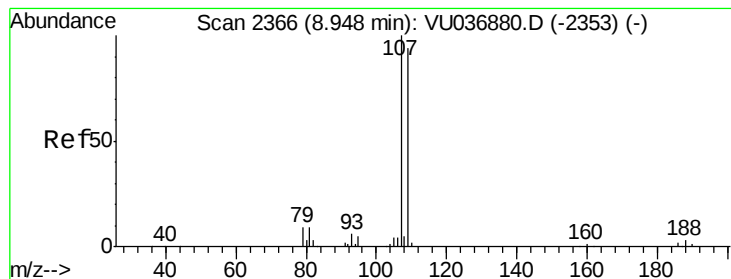
#49
Dibromochloromethane
Concen: 197.008 ug/L
RT: 8.84 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU036882.D
Acq: 24 Feb 2020 14:01

Tgt Ion: 129 Resp: 401415
Ion Ratio Lower Upper
129 100
127 78.6 54.3 100.8



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





#50

1,2-Dibromoethane

Concen: 205.282 ug/L

RT: 8.95 min Scan# 2366

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

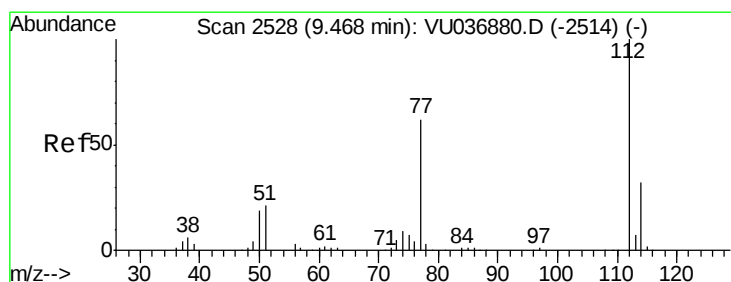
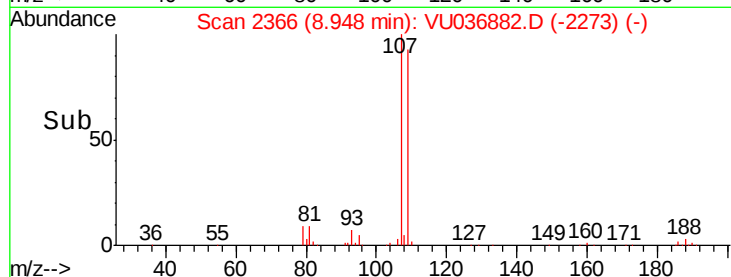
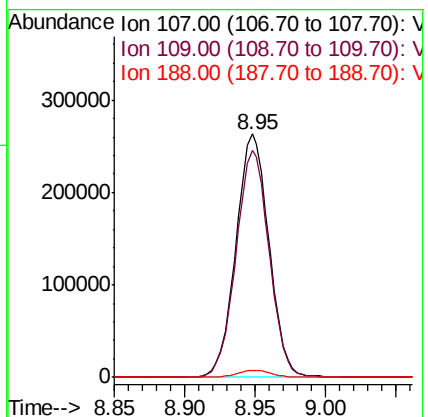
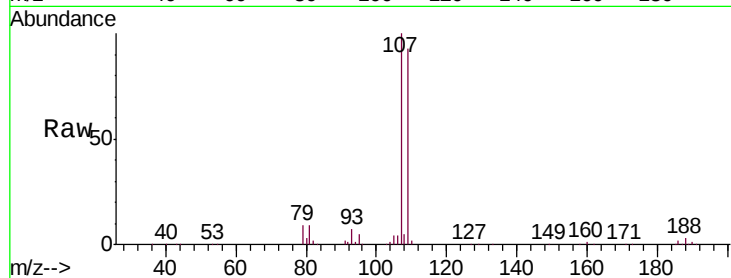
Tgt Ion:107 Resp: 432593

Ion Ratio Lower Upper

107 100

109 93.3 65.9 122.5

188 2.9 2.2 3.2



#51

Chlorobenzene

Concen: 212.081 ug/L

RT: 9.47 min Scan# 2528

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

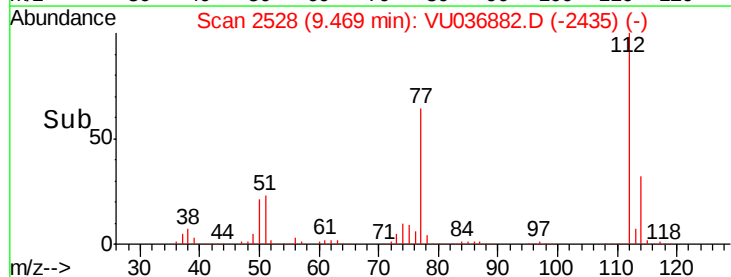
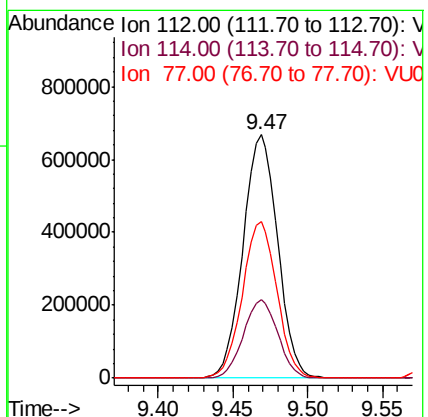
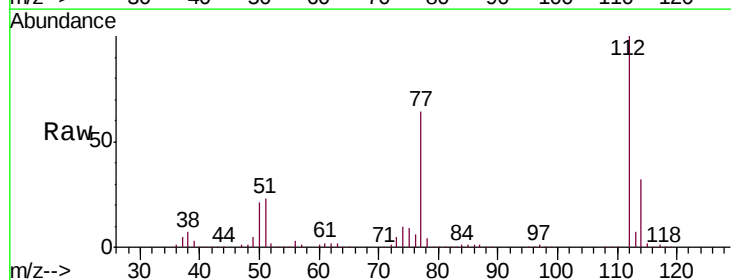
Tgt Ion:112 Resp: 1077964

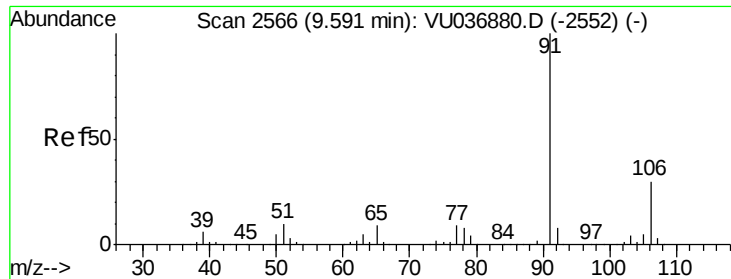
Ion Ratio Lower Upper

112 100

114 32.0 22.3 41.5

77 64.3 50.1 75.1





#52

Ethylbenzene

Concen: 220.759 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

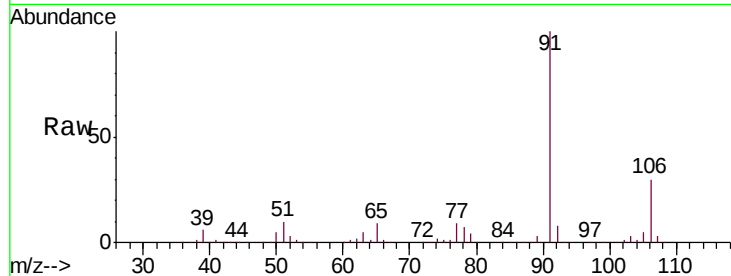
VSTD20036

Tgt Ion: 91 Resp: 2004942

Ion Ratio Lower Upper

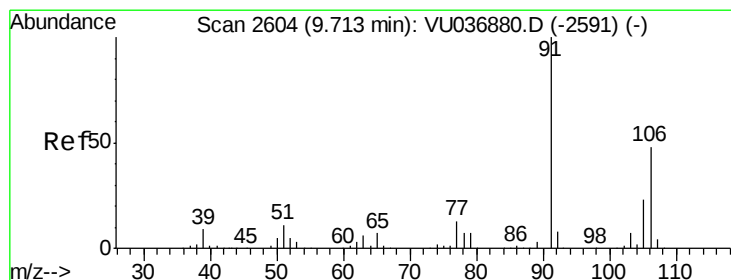
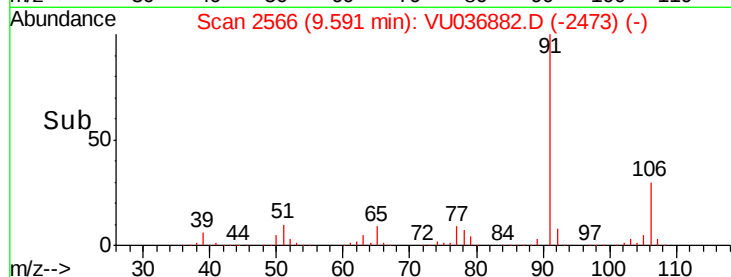
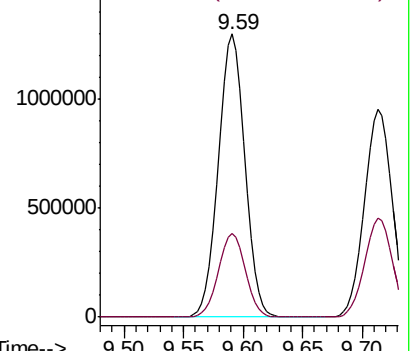
91 100

106 29.8 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VU036882.D (-2552) (-)

Ion 106.00 (105.70 to 106.70): VU036882.D (-2552) (-)



#53

m,p-Xylene

Concen: 217.712 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU036882.D

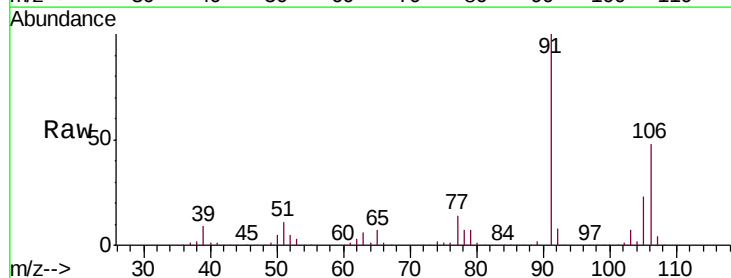
Acq: 24 Feb 2020 14:01

Tgt Ion: 106 Resp: 738141

Ion Ratio Lower Upper

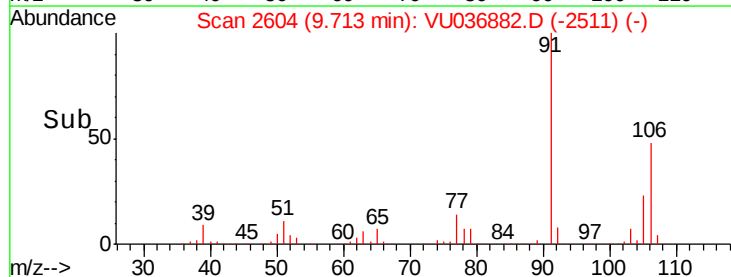
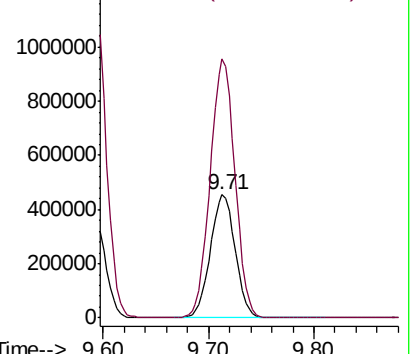
106 100

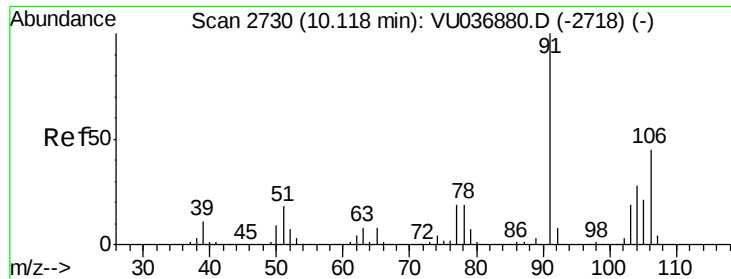
91 210.0 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): VU036882.D (-2591) (-)

Ion 91.00 (90.70 to 91.70): VU036882.D (-2591) (-)





#54

o-xylene

Concen: 216.885 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

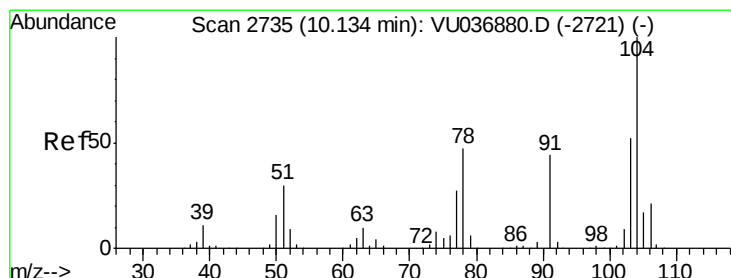
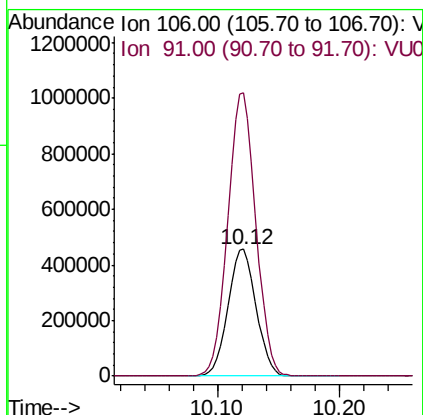
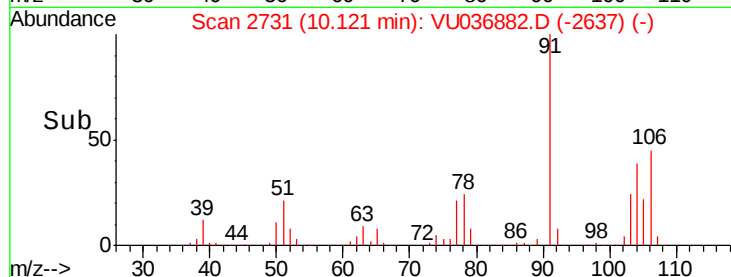
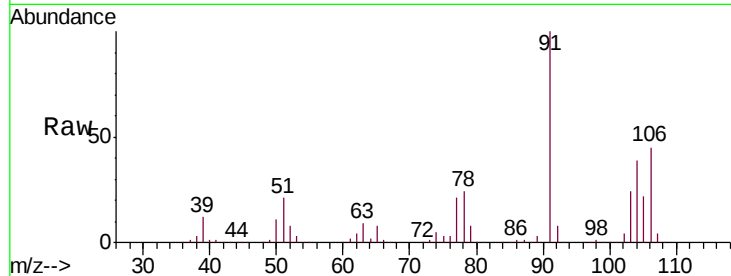
VSTD20036

Tgt Ion:106 Resp: 733833

Ion Ratio Lower Upper

106 100

91 223.2 154.2 286.4



#55

Styrene

Concen: 233.787 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU036882.D

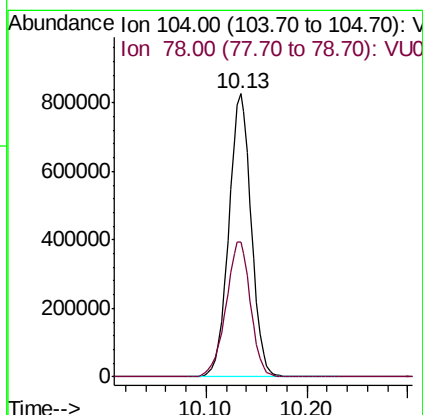
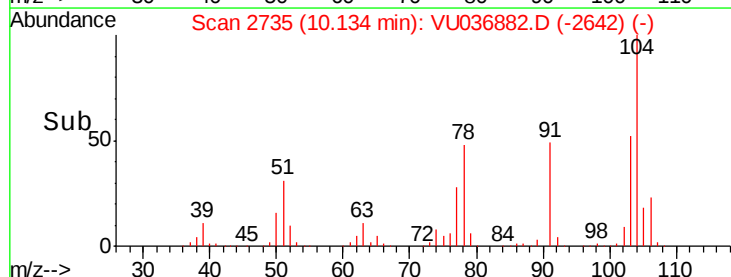
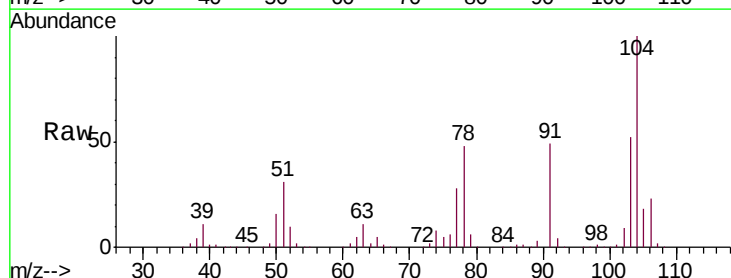
Acq: 24 Feb 2020 14:01

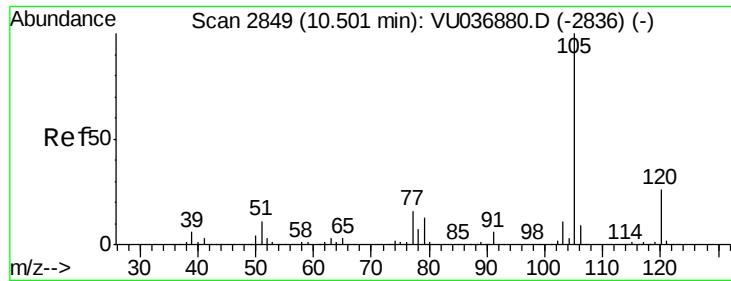
Tgt Ion:104 Resp: 1279385

Ion Ratio Lower Upper

104 100

78 47.7 33.0 61.4





#56

Isopropylbenzene

Concen: 220.961 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampled :

VSTD20036

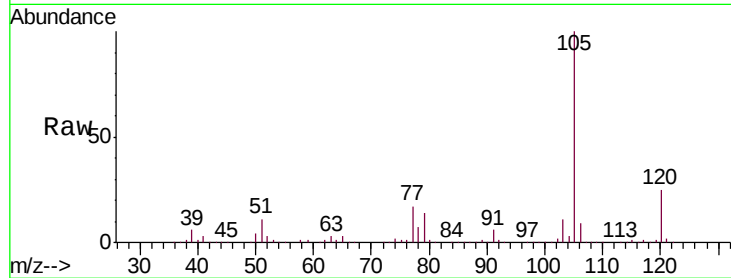
Tgt Ion:105 Resp: 1912852

Ion Ratio Lower Upper

105 100

120 25.5 20.5 30.7

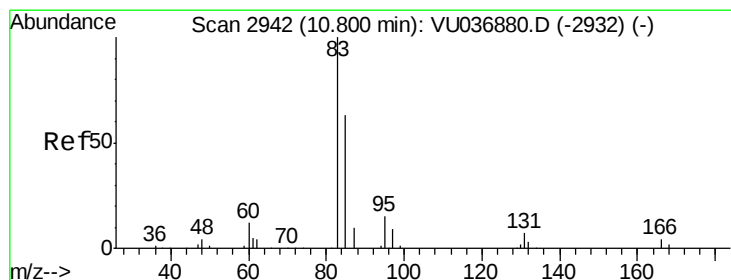
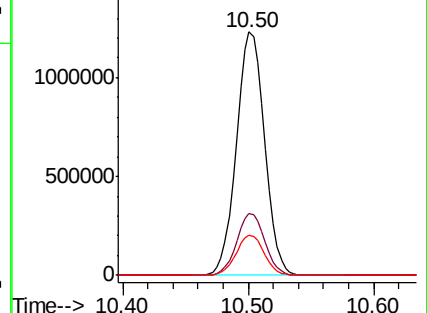
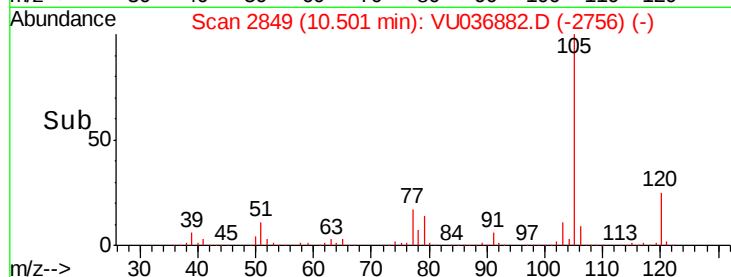
77 16.5 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 224.840 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

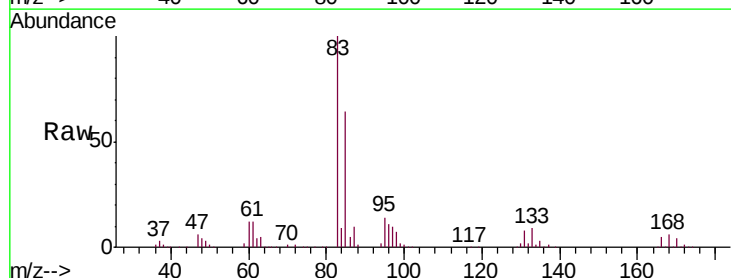
Tgt Ion: 83 Resp: 740787

Ion Ratio Lower Upper

83 100

85 64.3 45.5 84.5

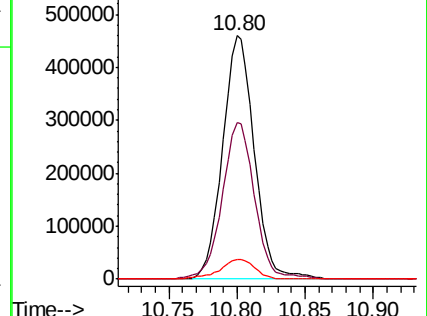
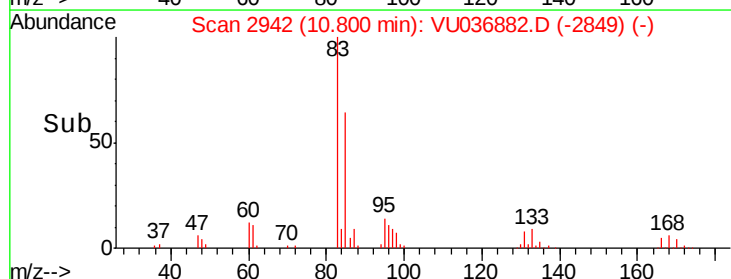
131 8.2 6.8 10.2

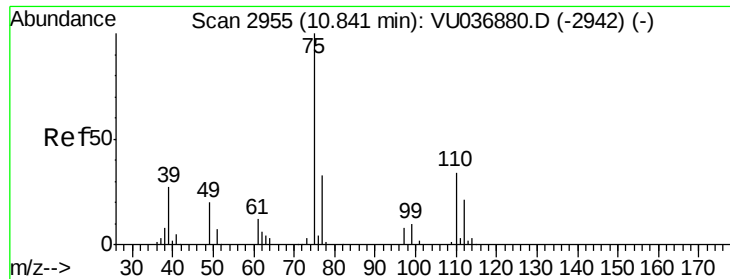


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V

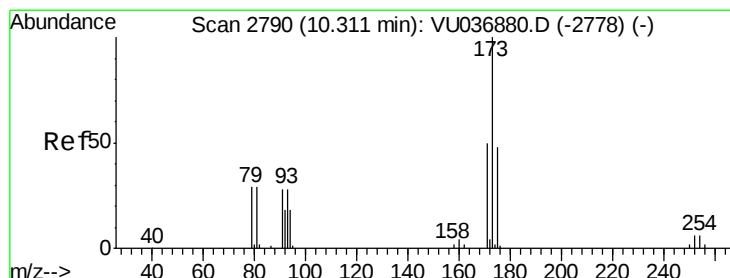
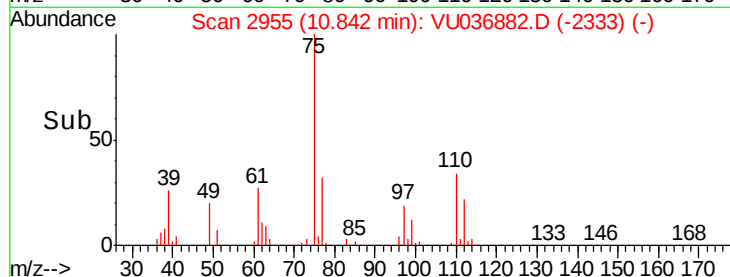
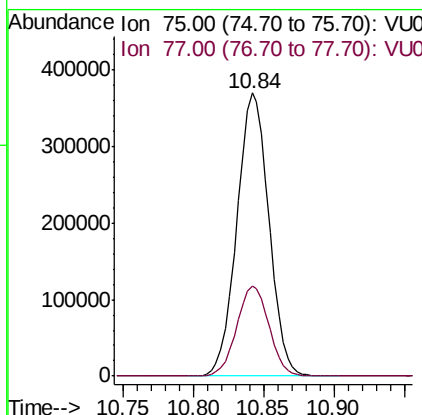
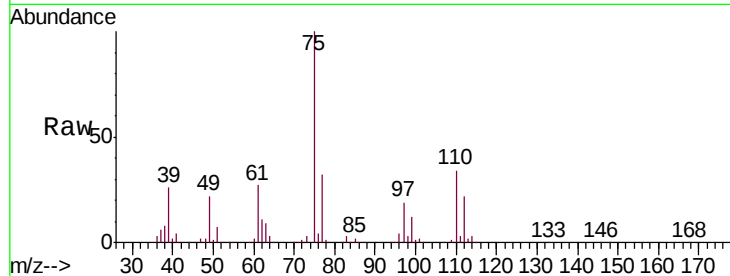




#59
 1,2,3-Trichloropropane
 Concen: 215.526 ug/L
 RT: 10.84 min Scan# 2955
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

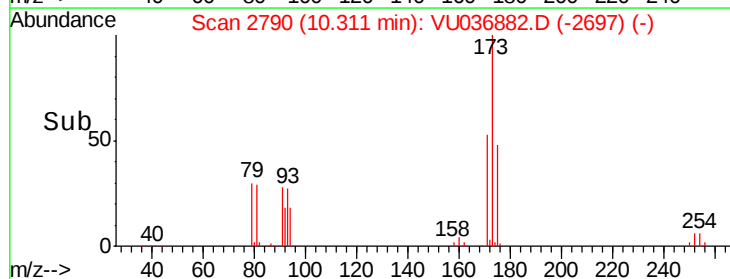
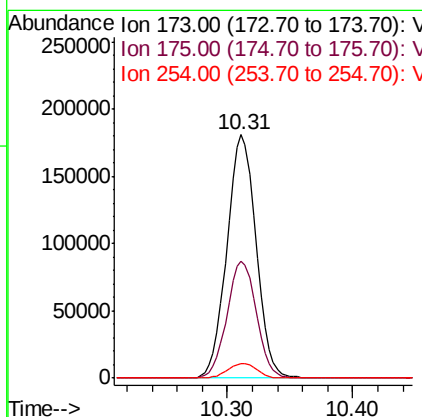
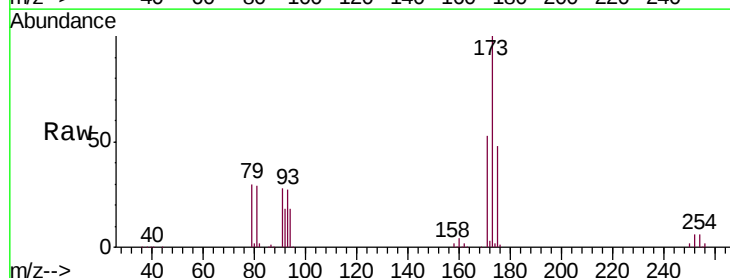
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

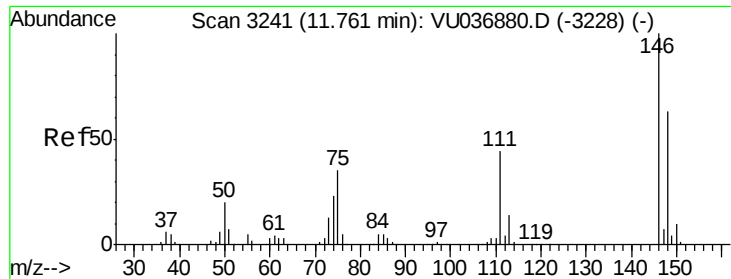
Tgt Ion: 75 Resp: 588656
 Ion Ratio Lower Upper
 75 100
 77 32.1 26.2 39.2



#61
 Bromoform
 Concen: 183.196 ug/L
 RT: 10.31 min Scan# 2790
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

Tgt Ion: 173 Resp: 292478
 Ion Ratio Lower Upper
 173 100
 175 48.5 39.0 58.6
 254 5.9 4.6 6.8

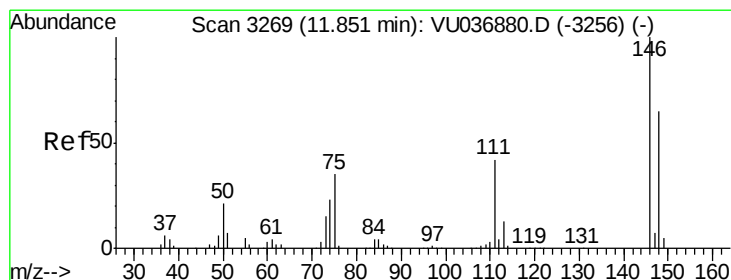
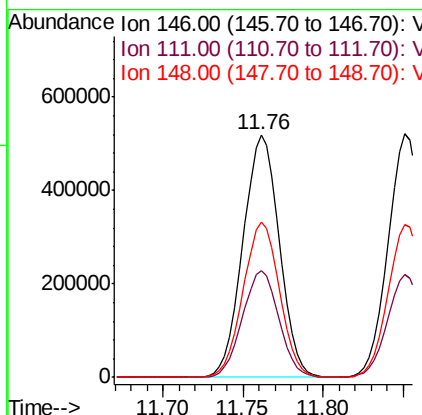
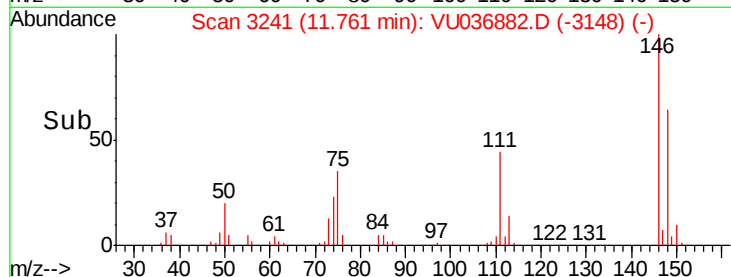
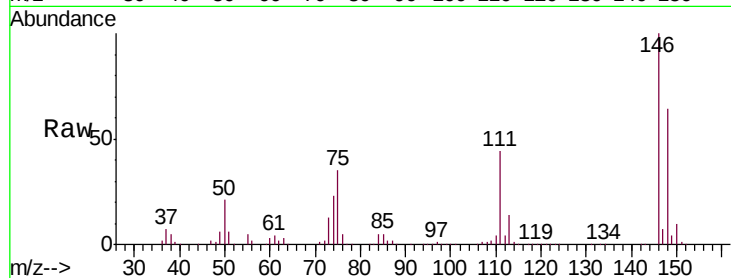




#62
 1,3-Dichlorobenzene
 Concen: 210.668 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

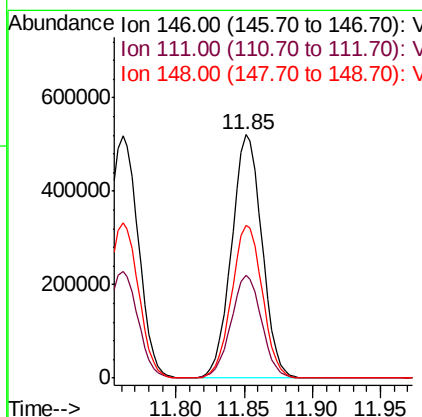
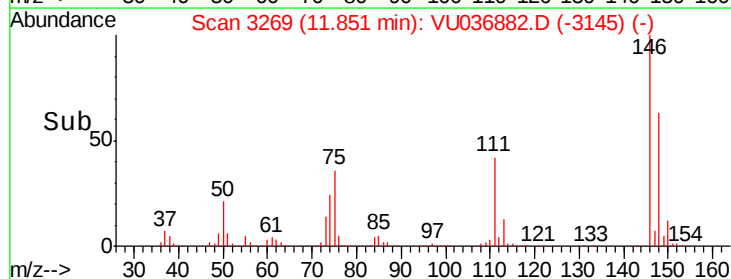
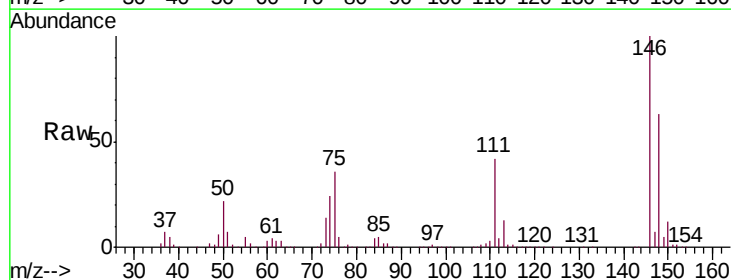
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20036

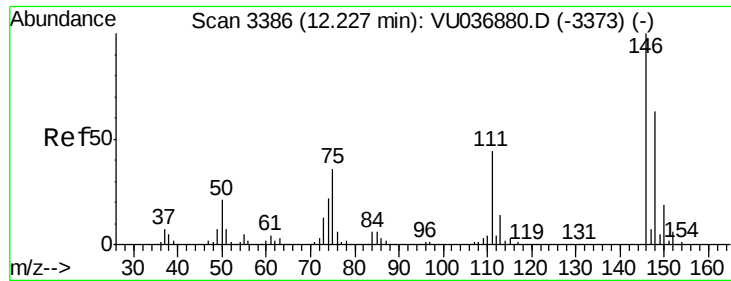
Tgt Ion:146 Resp: 806576
 Ion Ratio Lower Upper
 146 100
 111 44.0 30.7 56.9
 148 64.2 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 211.268 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

Tgt Ion:146 Resp: 806987
 Ion Ratio Lower Upper
 146 100
 111 42.1 29.8 55.4
 148 63.0 45.1 83.9





#65

1,2-Dichlorobenzene

Concen: 209.968 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

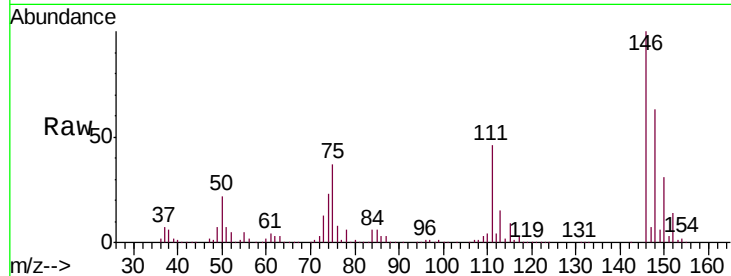
Tgt Ion:146 Resp: 794257

Ion Ratio Lower Upper

146 100

111 45.9 35.4 53.0

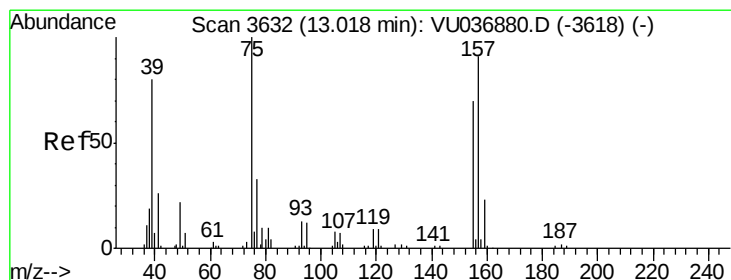
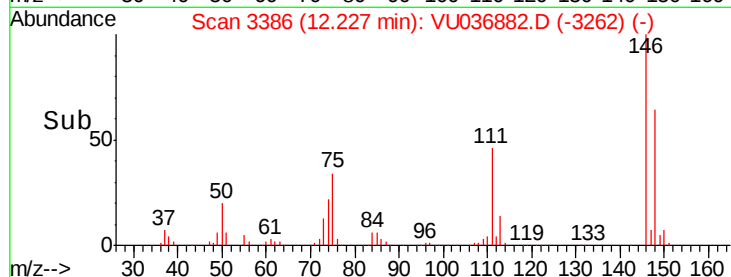
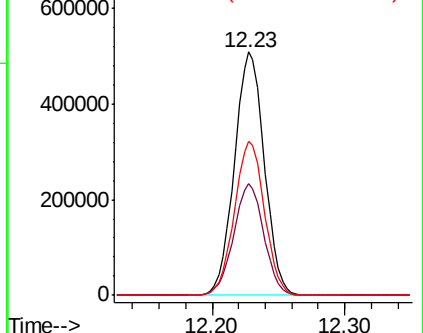
148 63.3 50.5 75.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 201.438 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

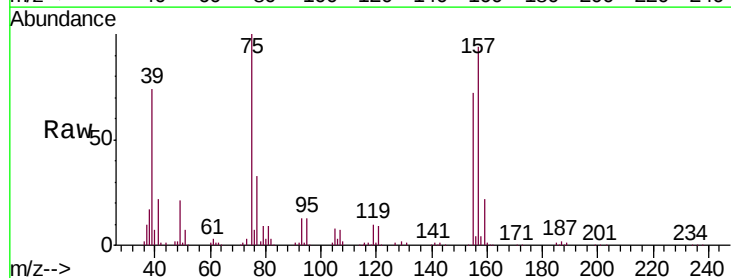
Tgt Ion: 75 Resp: 166216

Ion Ratio Lower Upper

75 100

155 72.3 55.7 83.5

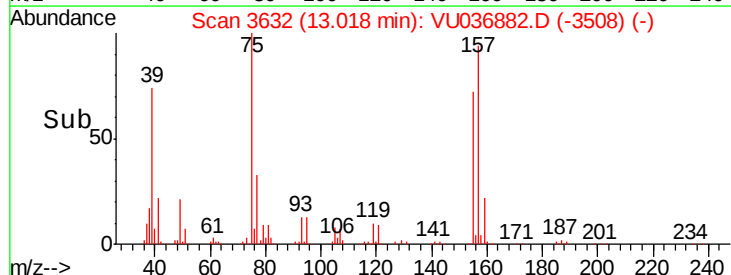
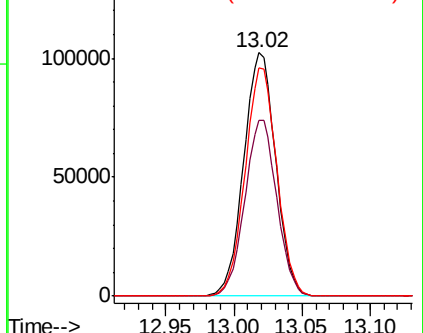
157 93.5 73.0 109.6

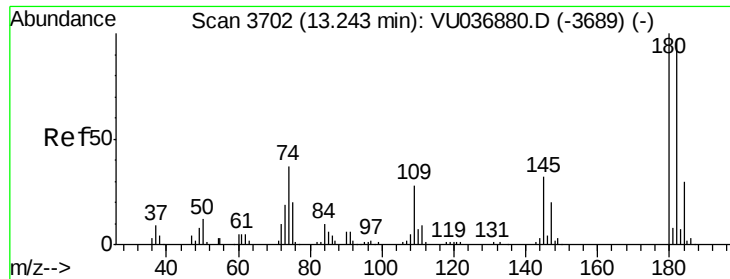


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

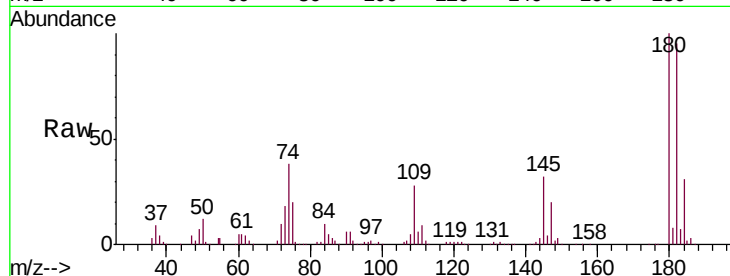




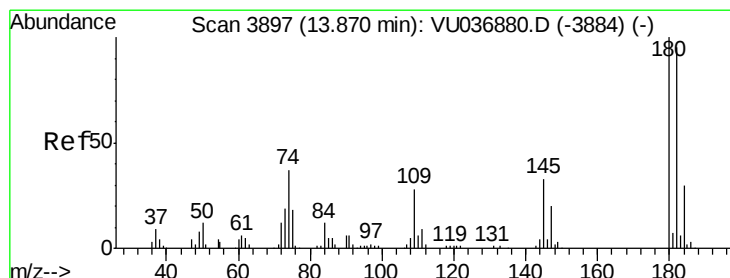
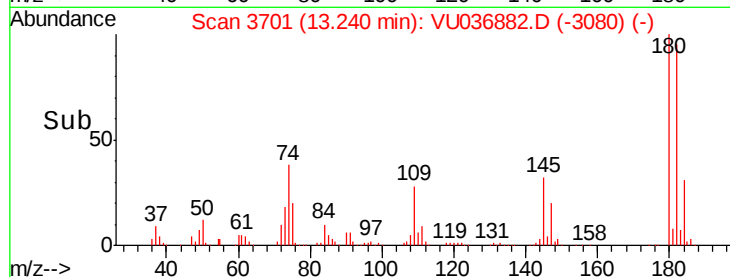
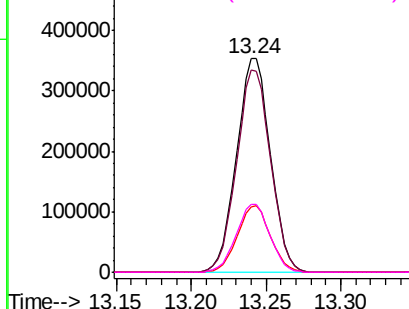
#67
 1,3,5-Trichlorobenzene
 Concen: 237.198 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

Instrument :
 MSVOA_U
 ClientSampled :
 VSTD20036

Tgt Ion:180 Resp: 556675
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.9 115.3
 184 30.3 24.2 36.2
 145 31.7 25.3 37.9

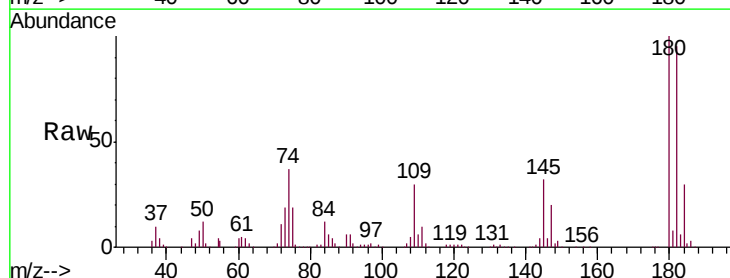


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

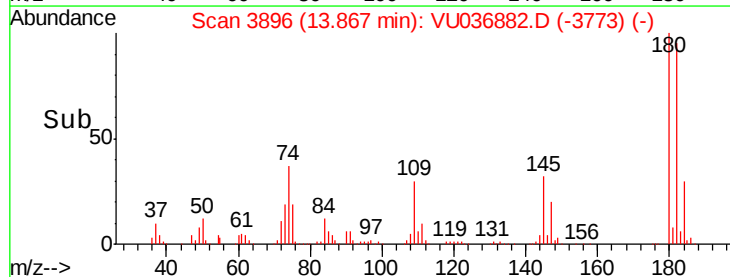
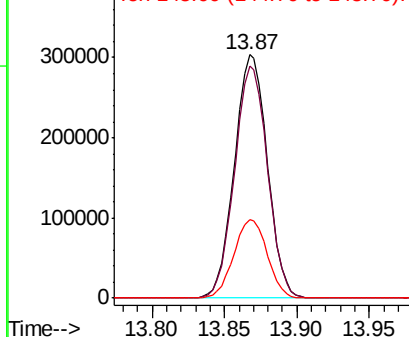


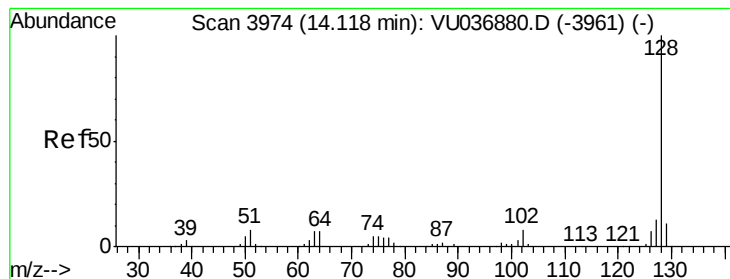
#68
 1,2,4-trichlorobenzene
 Concen: 274.187 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. -0.00 min
 Lab File: VU036882.D
 Acq: 24 Feb 2020 14:01

Tgt Ion:180 Resp: 478785
 Ion Ratio Lower Upper
 180 100
 182 95.4 75.3 112.9
 145 32.6 26.2 39.4



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





#69

Naphthalene

Concen: 163.596 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

Instrument :

MSVOA_U

ClientSampleId :

VSTD20036

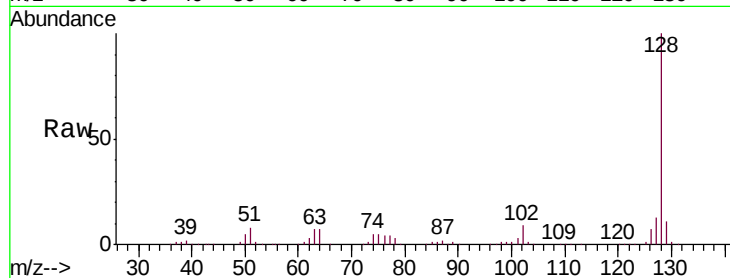
Tgt Ion:128 Resp: 866438

Ion Ratio Lower Upper

128 100

127 13.1 11.0 16.4

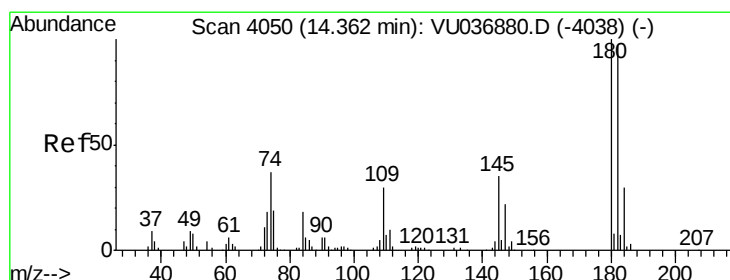
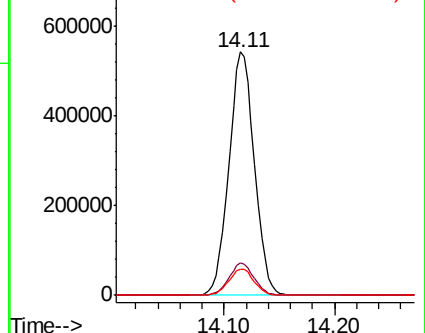
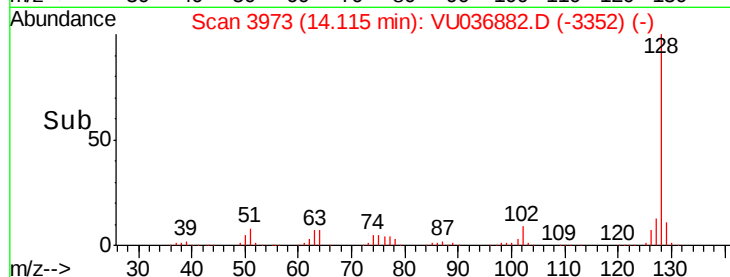
129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 259.716 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU036882.D

Acq: 24 Feb 2020 14:01

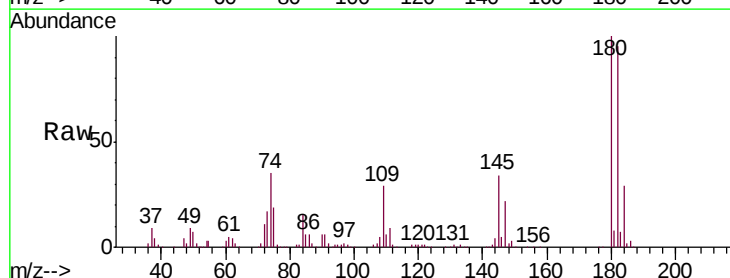
Tgt Ion:180 Resp: 470088

Ion Ratio Lower Upper

180 100

182 94.9 77.0 115.6

145 33.8 28.1 42.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

