

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031620\
 Data File : VU037292.D
 Acq On : 16 Mar 2020 13:18
 Operator : JC/MD
 Sample : VSTD02004
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

Quant Time: Mar 16 18:29:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR031620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Mar 16 18:25:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	143502	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	142823	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	76421	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	152218	17.05	ug/L	0.00
7) Chloroethane-d5	1.93	69	137032	20.83	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	330224	17.67	ug/L	0.00
20) 2-Butanone-d5	4.67	46	477507	201.07	ug/L	-0.01
24) Chloroform-d	5.10	84	357225	19.04	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	198714	18.19	ug/L	0.00
32) Benzene-d6	5.76	84	622127	18.28	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	199690	18.00	ug/L	0.00
41) Toluene-d8	7.93	98	611714	19.13	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	95982	21.32	ug/L	0.00
46) 2-Hexanone-d5	8.66	63	447463	234.71	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	177051	19.18	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	241176	18.55	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	332063	18.41	ug/L	99
3) Chloromethane	1.53	50	307627	19.58	ug/L	99
5) Vinyl chloride	1.62	62	292743	20.94	ug/L	100
6) Bromomethane	1.87	94	141443	25.24	ug/L	98
8) Chloroethane	1.94	64	163252	22.22	ug/L	99
9) Trichlorofluoromethane	2.15	101	431524	21.40	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	203858	20.11	ug/L	96
12) 1,1-Dichloroethene	2.60	96	181150	19.64	ug/L	97
13) Acetone	2.66	43	409376	212.21	ug/L	99
14) Carbon disulfide	2.82	76	572224	18.87	ug/L	100
15) Methyl Acetate	2.98	43	88674	19.35	ug/L	96
16) Methylene chloride	3.08	84	211438	19.15	ug/L	98
17) Methyl tert-butyl Ether	3.40	73	541864	21.60	ug/L	98
18) trans-1,2-Dichloroethene	3.39	96	199070	20.57	ug/L	96
19) 1,1-Dichloroethane	3.91	63	389129	19.71	ug/L	96
21) 2-Butanone	4.75	43	650153	212.85	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	223074	20.77	ug/L	98
23) Bromochloromethane	5.02	128	98793	20.78	ug/L	96
25) Chloroform	5.13	83	416804	19.33	ug/L	98
27) 1,2-Dichloroethane	5.83	62	301002	19.89	ug/L	98
29) 1,1,1-Trichloroethane	5.35	97	381371	20.72	ug/L	99
30) Cyclohexane	5.42	56	367609	21.15	ug/L	98
31) Carbon tetrachloride	5.56	117	349822	21.91	ug/L	100
33) Benzene	5.81	78	854782	20.49	ug/L	100
34) Trichloroethene	6.57	95	230457	20.35	ug/L	98
35) Methylcyclohexane	6.79	83	380897	21.91	ug/L	97
37) 1,2-Dichloropropane	6.82	63	225325	20.50	ug/L	100
38) Bromodichloromethane	7.13	83	310573	21.02	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	361658	22.69	ug/L	98
40) 4-Methyl-2-pentanone	7.82	43	1613030	207.59	ug/L	99

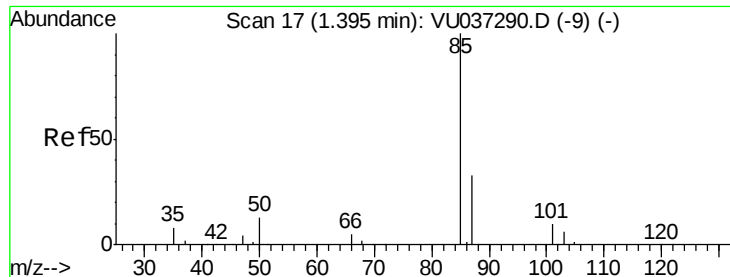
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031620\
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Quant Time: Mar 16 18:29:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR031620WMA.M
 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	959885	21.40	ug/L	100
44) trans-1,3-Dichloropropene	8.23	75	310268	23.33	ug/L	99
45) 1,1,2-Trichloroethane	8.42	97	158997	20.02	ug/L	98
47) Tetrachloroethene	8.57	164	182488	20.69	ug/L	97
48) 2-Hexanone	8.71	43	1185913	220.38	ug/L	99
49) Dibromochloromethane	8.84	129	219654	22.61	ug/L	99
50) 1,2-Dibromoethane	8.95	107	161956	21.46	ug/L	97
51) Chlorobenzene	9.47	112	594634	20.47	ug/L	97
52) Ethylbenzene	9.59	91	1109470	22.33	ug/L	98
53) m,p-Xylene	9.71	106	409263	22.91	ug/L	95
54) o-Xylene	10.12	106	393190	22.38	ug/L	95
55) Styrene	10.13	104	673518	23.47	ug/L	95
56) Isopropylbenzene	10.50	105	1107194	23.50	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	212626	21.55	ug/L	97
59) 1,2,3-Trichloropropane	10.84	75	158844	20.09	ug/L	98
61) Bromoform	10.31	173	129213	21.91	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	492543	19.83	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	492986	19.98	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	469438	19.89	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	40045	22.08	ug/L	93
67) 1,3,5-Trichlorobenzene	13.24	180	395381	22.89	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	319764	26.91	ug/L	97
69) Naphthalene	14.11	128	539188	31.86	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	297195	26.76	ug/L	99

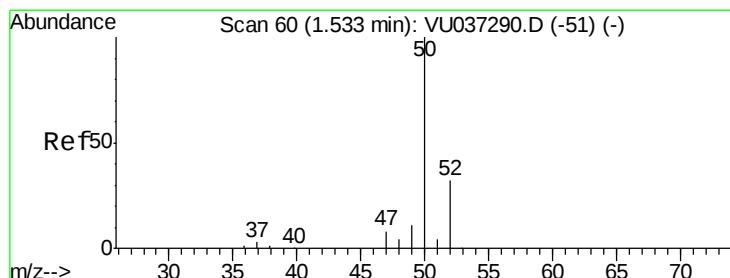
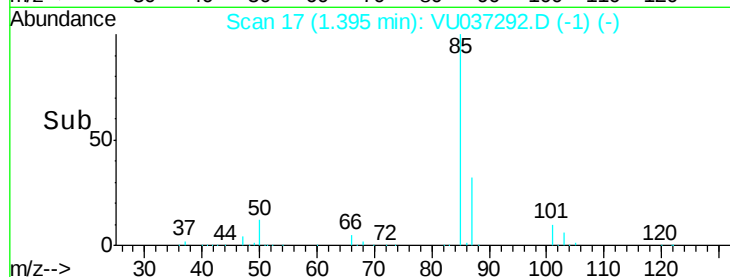
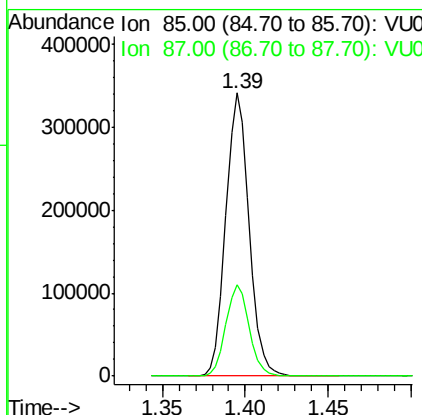
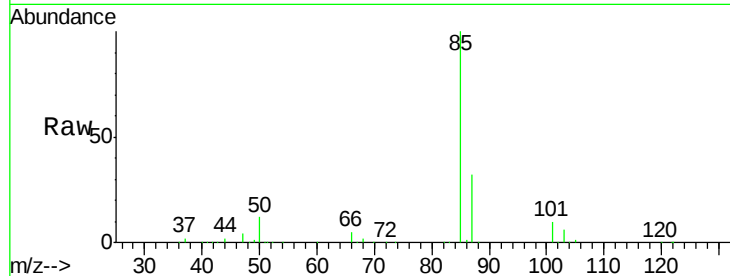
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
 Dichlorodifluoromethane
 Concen: 18.41 ug/L
 RT: 1.39 min Scan# 17
 Delta R.T. 0.00 min
 Lab File: VU037292.D
 Acq: 16 Mar 2020 13:18

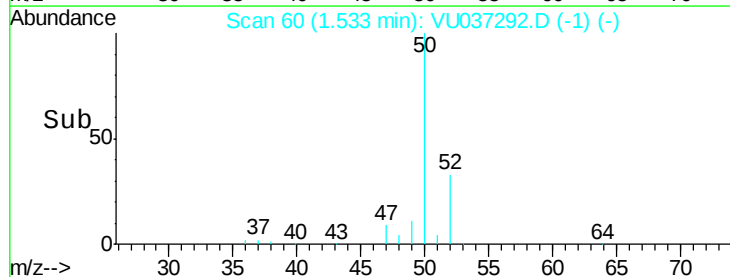
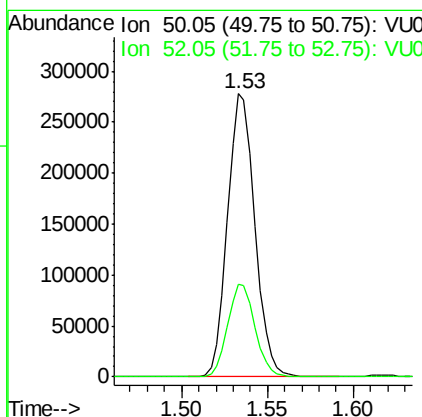
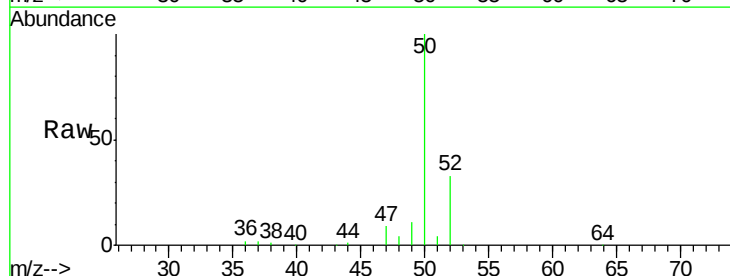
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

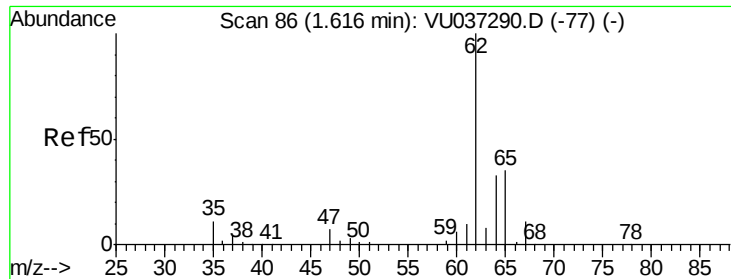
Tgt Ion: 85 Resp: 332063
 Ion Ratio Lower Upper
 85 100
 87 32.3 25.5 38.3



#3
 Chloromethane
 Concen: 19.58 ug/L
 RT: 1.53 min Scan# 60
 Delta R.T. 0.00 min
 Lab File: VU037292.D
 Acq: 16 Mar 2020 13:18

Tgt Ion: 50 Resp: 307627
 Ion Ratio Lower Upper
 50 100
 52 32.6 22.3 41.5





#5

Vinyl chloride

Concen: 20.94 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

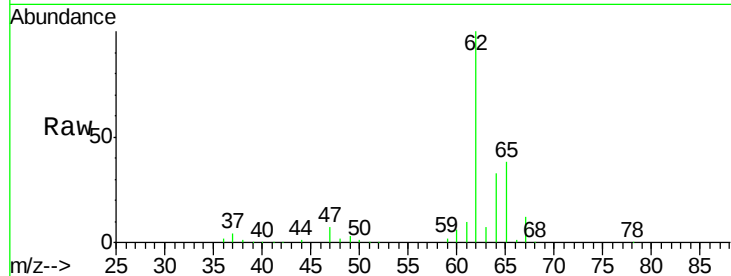
VSTD02004

Tgt Ion: 62 Resp: 292743

Ion Ratio Lower Upper

62 100

64 32.5 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU037292.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU037292.D (-77) (-)

1.62

300000

250000

200000

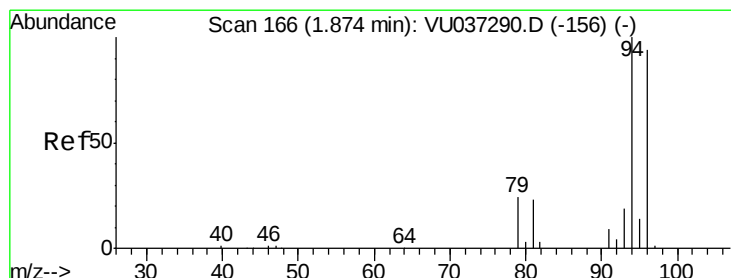
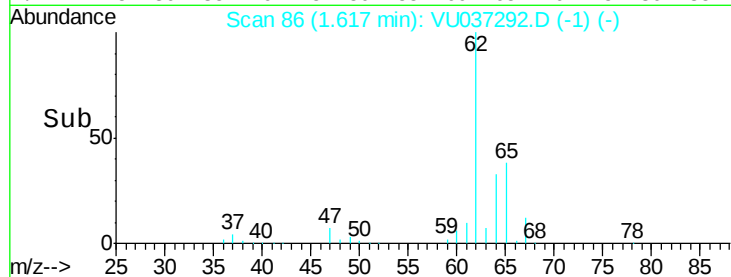
150000

100000

50000

0

Time--> 1.55 1.60 1.65 1.70



#6

Bromomethane

Concen: 25.24 ug/L

RT: 1.87 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU037292.D

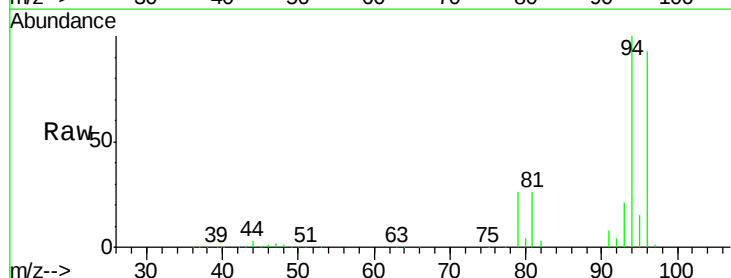
Acq: 16 Mar 2020 13:18

Tgt Ion: 94 Resp: 141443

Ion Ratio Lower Upper

94 100

96 92.5 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU037292.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU037292.D (-156) (-)

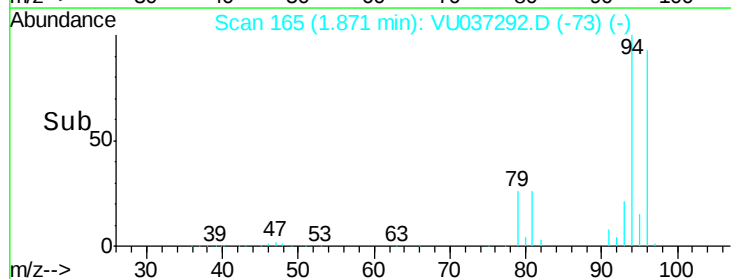
1.87

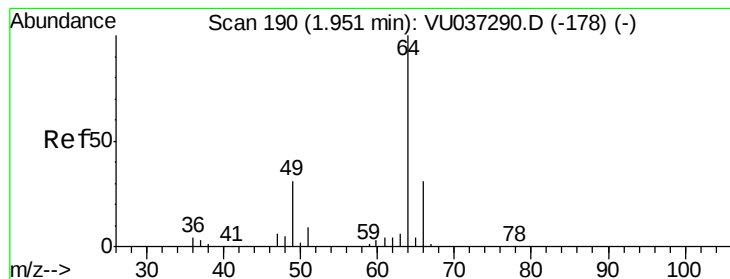
100000

50000

0

Time--> 1.80 1.85 1.90 1.95





#8

Chloroethane

Concen: 22.22 ug/L

RT: 1.94 min Scan# 188

Delta R.T. -0.01 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

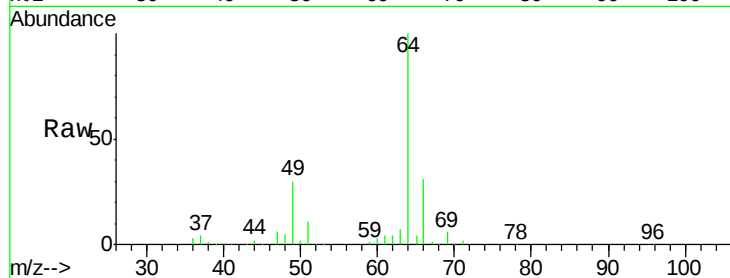
VSTD02004

Tgt Ion: 64 Resp: 163252

Ion Ratio Lower Upper

64 100

66 31.4 21.7 40.3



Abundance Ion 64.10 (63.80 to 64.80): VU037292.D (-188) (-)

Ion 66.05 (65.75 to 66.75): VU037292.D (-188) (-)

1.94

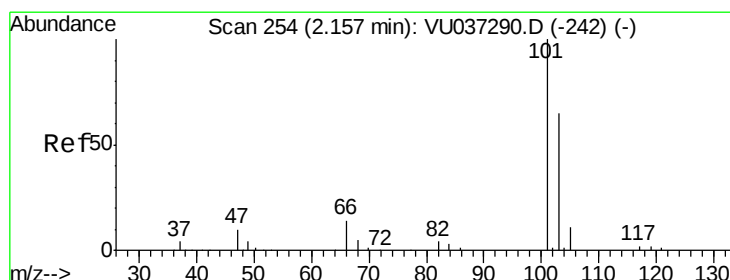
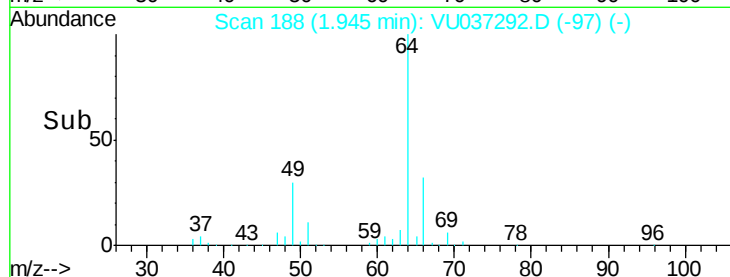
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 21.40 ug/L

RT: 2.15 min Scan# 253

Delta R.T. -0.00 min

Lab File: VU037292.D

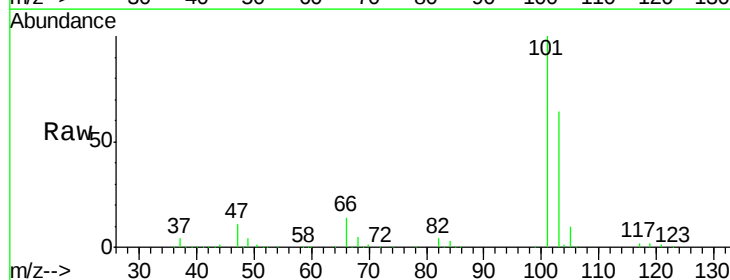
Acq: 16 Mar 2020 13:18

Tgt Ion: 101 Resp: 431524

Ion Ratio Lower Upper

101 100

103 64.5 52.9 79.3



Abundance Ion 101.00 (100.70 to 101.70): VU037292.D (-253) (-)

Ion 103.00 (102.70 to 103.70): VU037292.D (-253) (-)

2.15

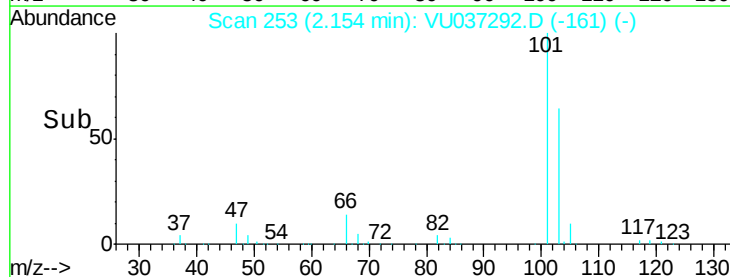
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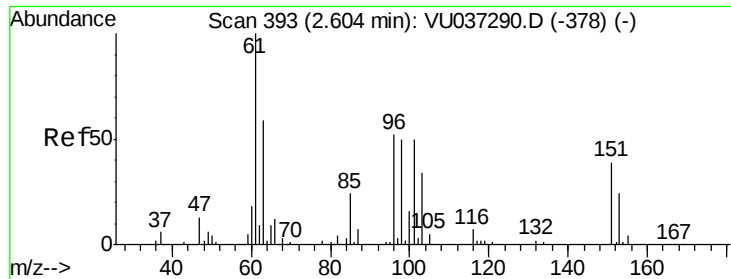
200000

100000

0

Time-->





#10

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

Concen: 20.11 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

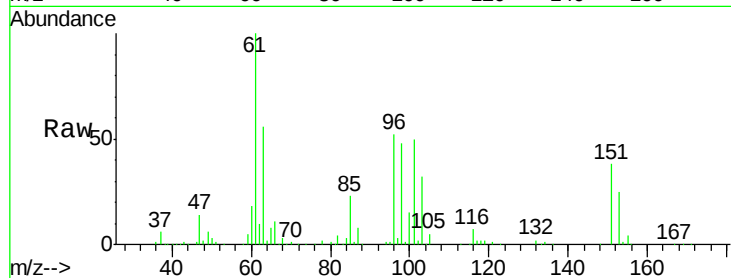
Tgt Ion: 101 Resp: 203858

Ion Ratio Lower Upper

101 100

85 46.7 39.1 58.7

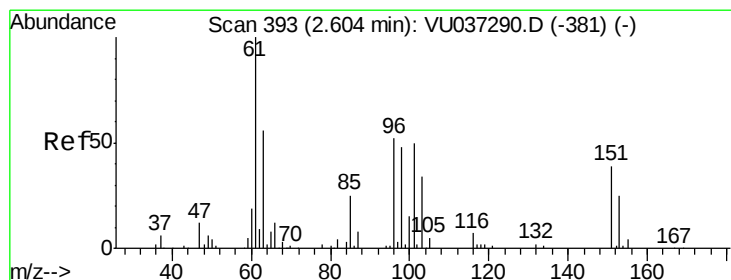
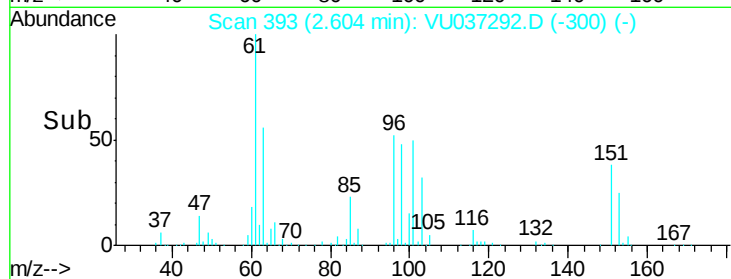
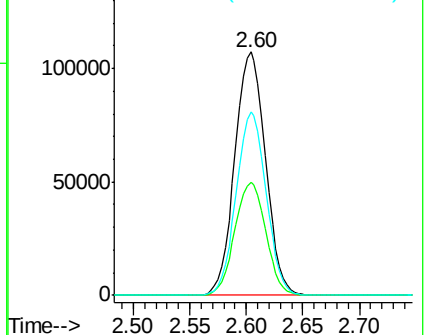
151 73.6 62.5 93.7



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: 19.64 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

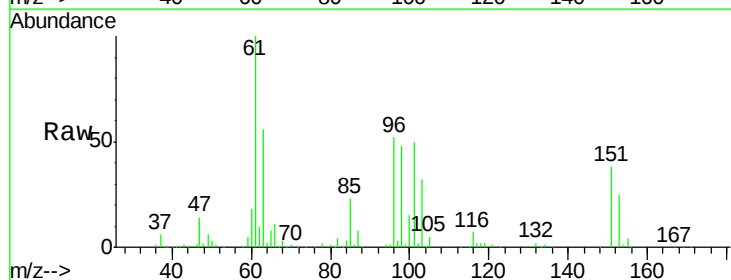
Tgt Ion: 96 Resp: 181150

Ion Ratio Lower Upper

96 100

61 194.0 134.3 249.5

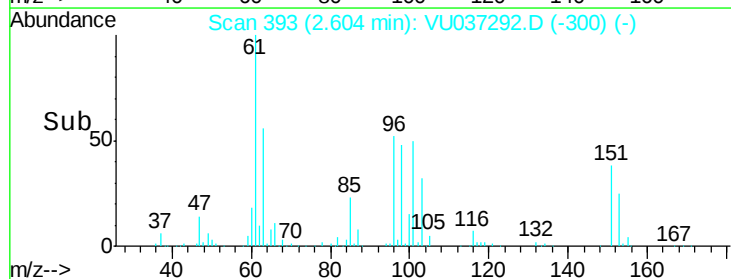
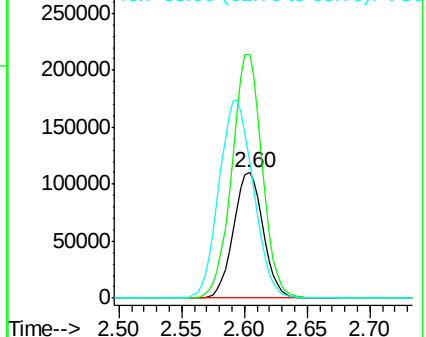
63 108.9 80.3 149.1

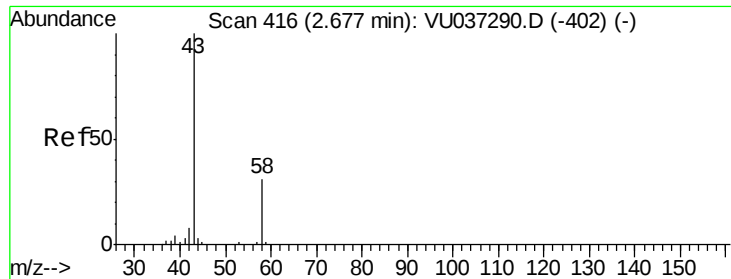


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 212.21 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.02 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

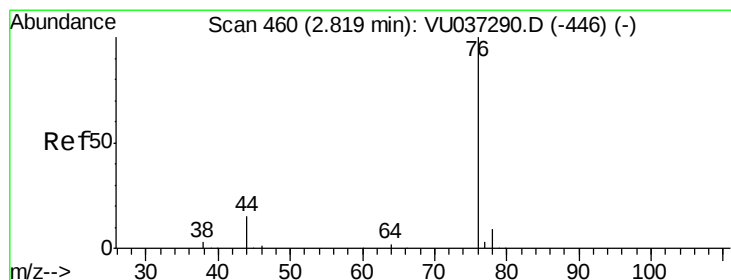
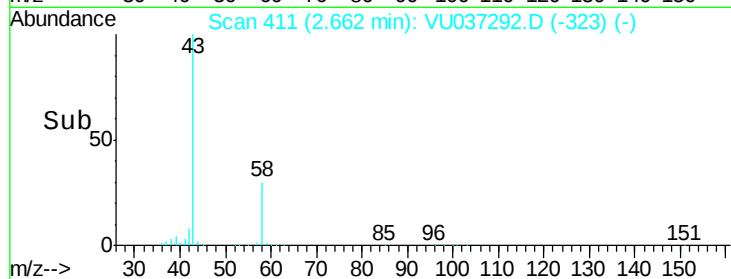
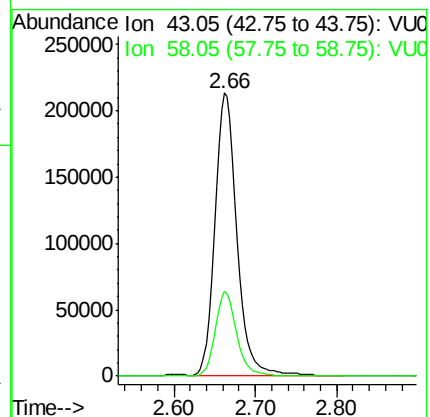
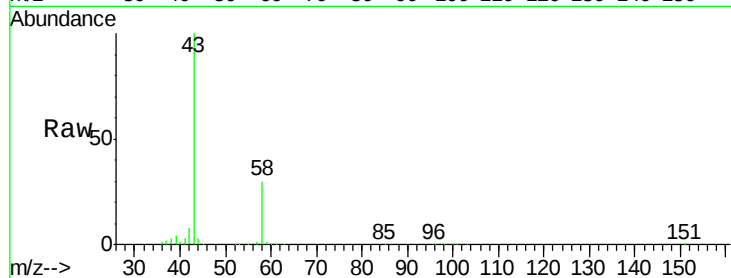
VSTD02004

Tgt Ion: 43 Resp: 409376

Ion Ratio Lower Upper

43 100

58 29.3 0.0 58.0



#14

Carbon disulfide

Concen: 18.87 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037292.D

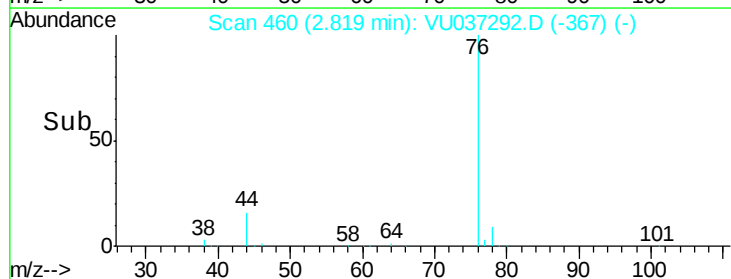
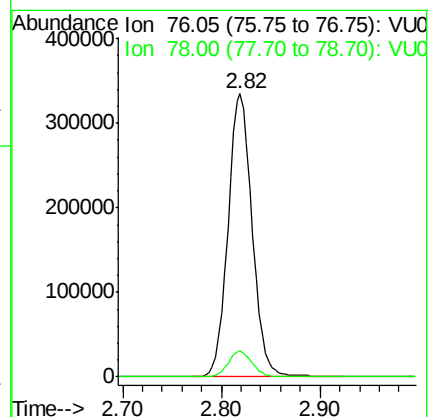
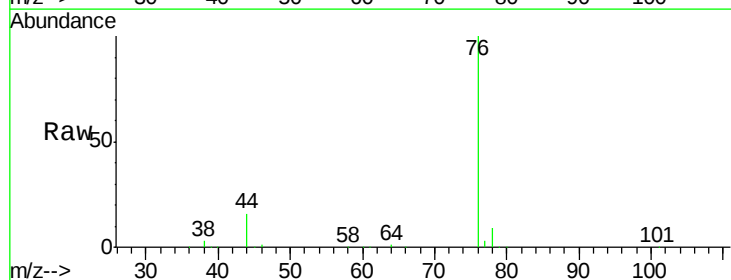
Acq: 16 Mar 2020 13:18

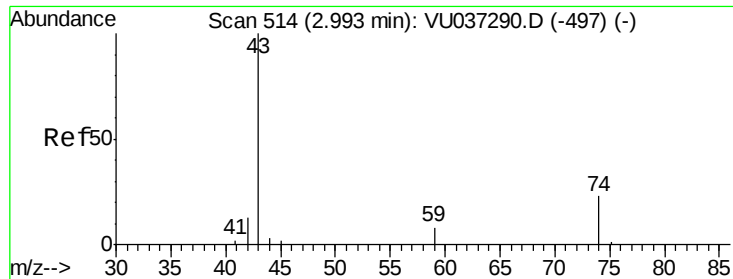
Tgt Ion: 76 Resp: 572224

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7

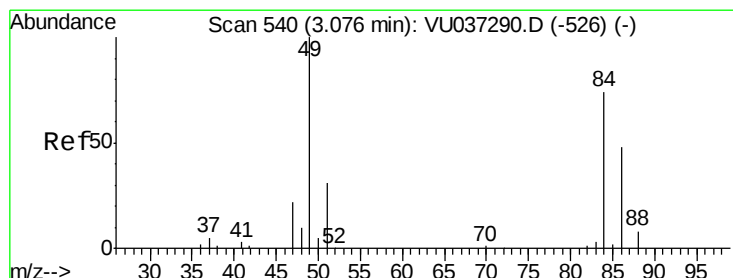
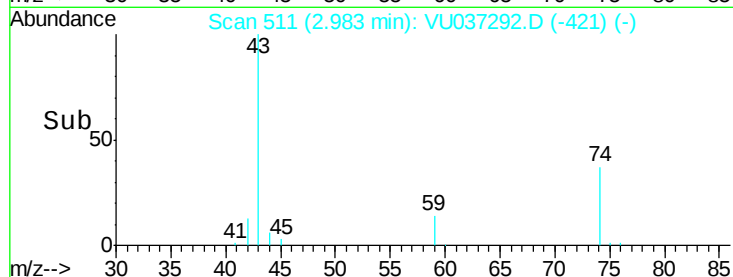
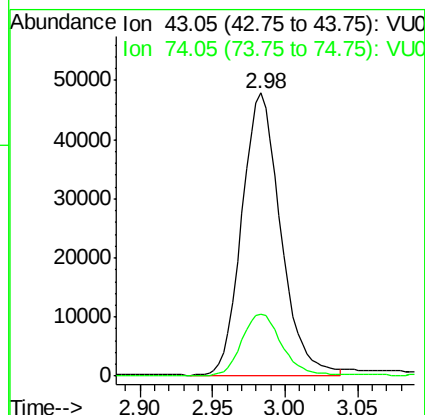
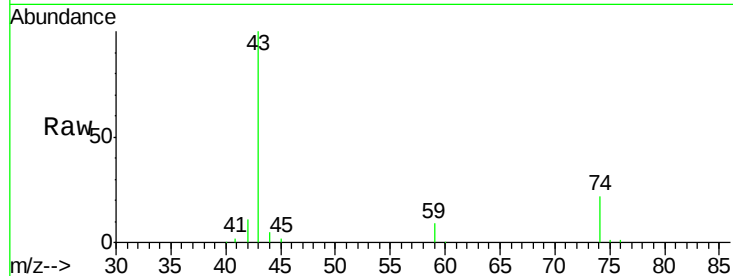




#15
Methyl Acetate
Concen: 19.35 ug/L
RT: 2.98 min Scan# 511
Delta R.T. -0.01 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

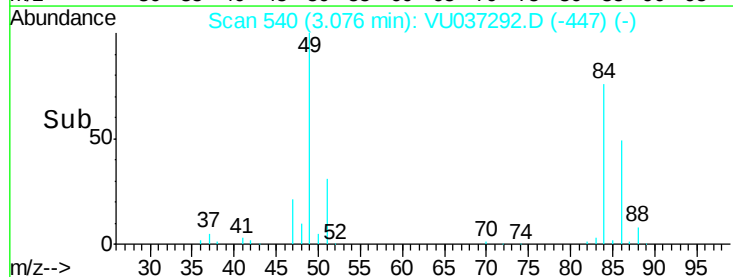
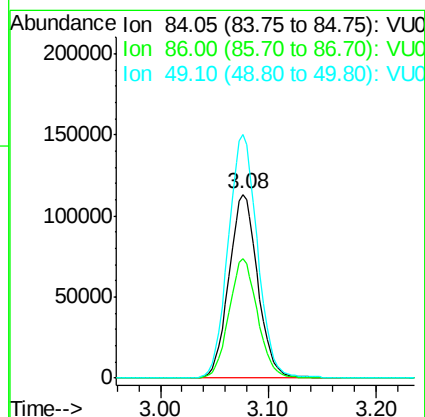
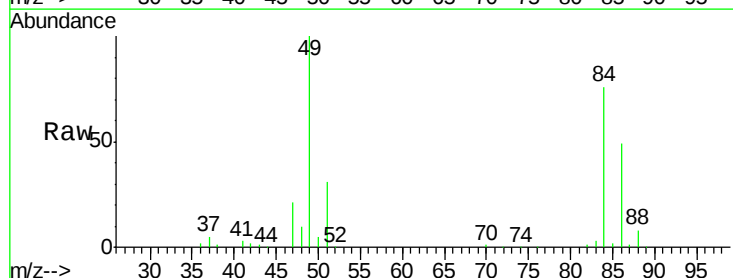
Instrument :
MSVOA_U
ClientSampleId :
VSTD02004

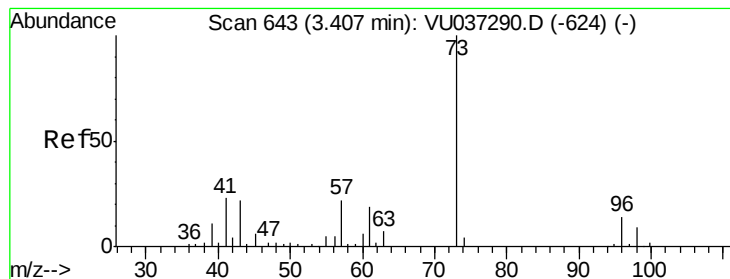
Tgt Ion: 43 Resp: 88674
Ion Ratio Lower Upper
43 100
74 23.1 17.0 25.4



#16
Methylene chloride
Concen: 19.15 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

Tgt Ion: 84 Resp: 211438
Ion Ratio Lower Upper
84 100
86 64.9 45.2 84.0
49 132.3 94.4 175.4





#17

Methyl tert-butyl Ether

Concen: 21.60 ug/L

RT: 3.40 min Scan# 642

Delta R.T. -0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

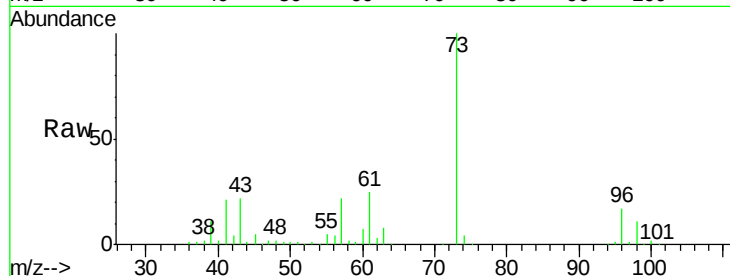
Tgt Ion: 73 Resp: 541864

Ion Ratio Lower Upper

73 100

43 22.1 18.6 28.0

57 22.0 17.1 25.7



Abundance Ion 73.10 (72.80 to 73.80): VU037292.D (-550) (-)

Ion 43.05 (42.75 to 43.75): VU037292.D (-550) (-)

Ion 57.10 (56.80 to 57.80): VU037292.D (-550) (-)

300000

250000

200000

150000

100000

50000

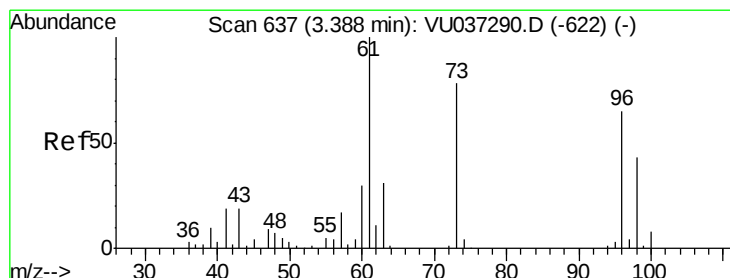
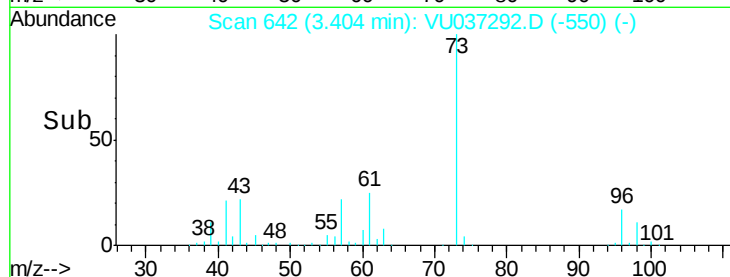
0

3.30

3.40

3.50

Time-->



#18

trans-1,2-Dichloroethene

Concen: 20.57 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

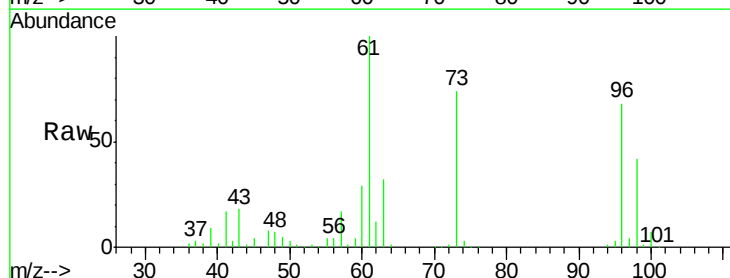
Tgt Ion: 96 Resp: 199070

Ion Ratio Lower Upper

96 100

61 148.0 107.5 199.7

98 62.6 45.9 85.3



Abundance Ion 96.00 (95.70 to 96.70): VU037292.D (-544) (-)

Ion 61.05 (60.75 to 61.75): VU037292.D (-544) (-)

Ion 97.95 (97.65 to 98.65): VU037292.D (-544) (-)

200000

150000

100000

50000

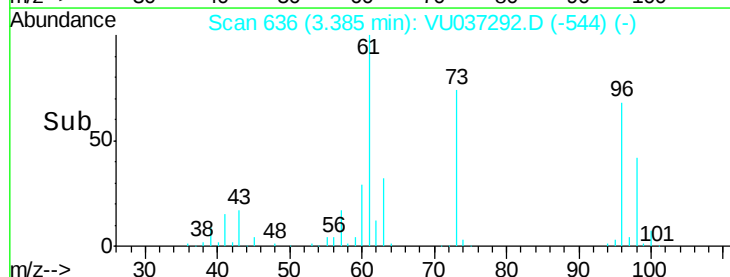
0

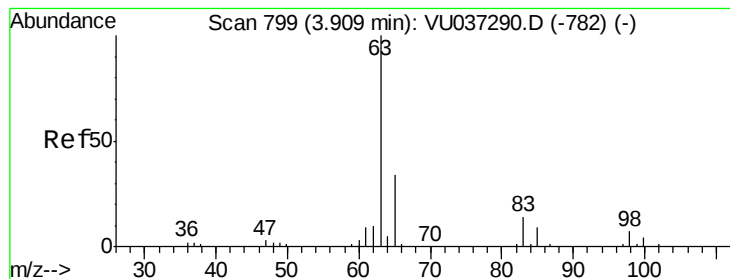
3.30

3.39

3.50

Time-->





#19

1,1-Dichloroethane

Concen: 19.71 ug/L

RT: 3.91 min Scan# 799

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

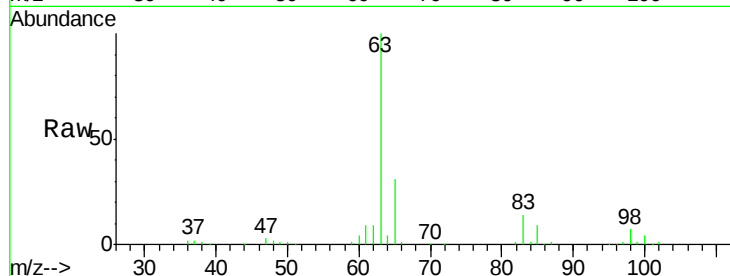
Tgt Ion: 63 Resp: 389129

Ion Ratio Lower Upper

63 100

65 31.3 24.1 44.7

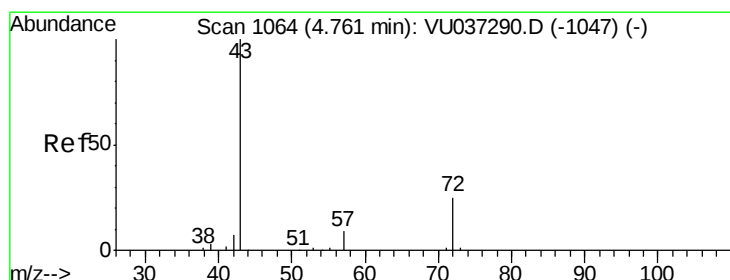
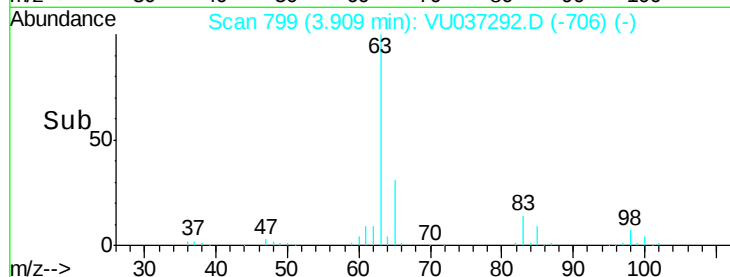
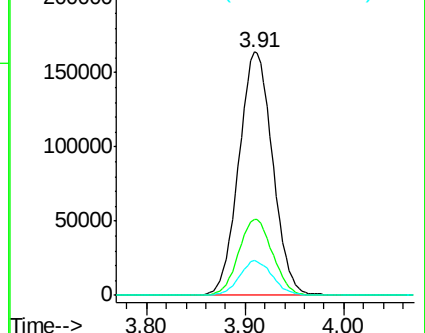
83 14.1 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU037292.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU037292.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU037292.D (-782) (-)



#21

2-Butanone

Concen: 212.85 ug/L

RT: 4.75 min Scan# 1061

Delta R.T. -0.01 min

Lab File: VU037292.D

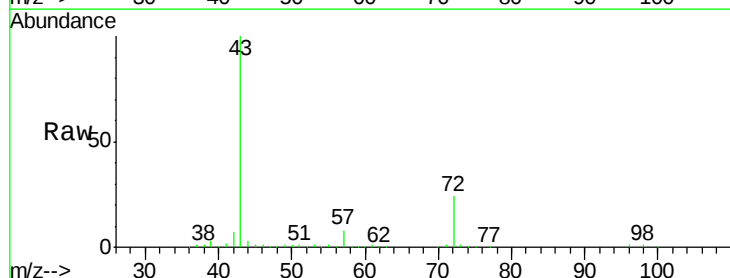
Acq: 16 Mar 2020 13:18

Tgt Ion: 43 Resp: 650153

Ion Ratio Lower Upper

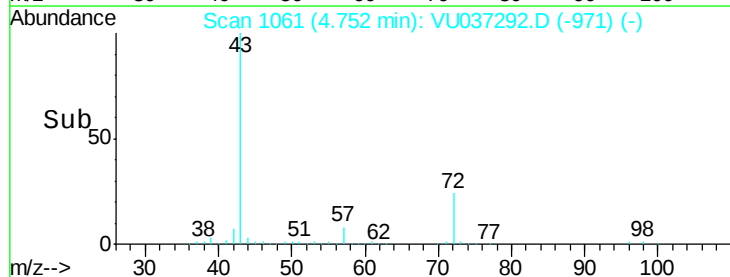
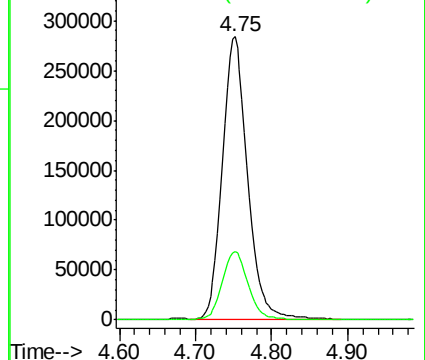
43 100

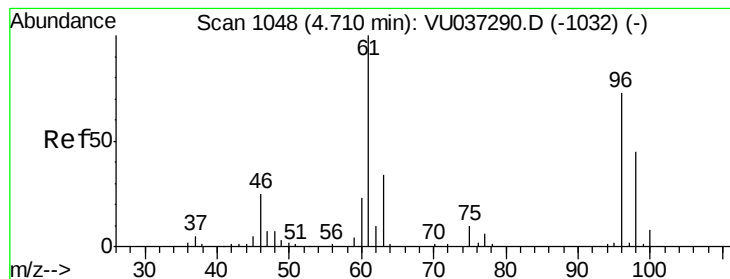
72 25.5 12.5 37.5



Abundance Ion 43.05 (42.75 to 43.75): VU037292.D (-1047) (-)

Ion 72.10 (71.80 to 72.80): VU037292.D (-1047) (-)





#22

cis-1,2-Dichloroethene

Concen: 20.77 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

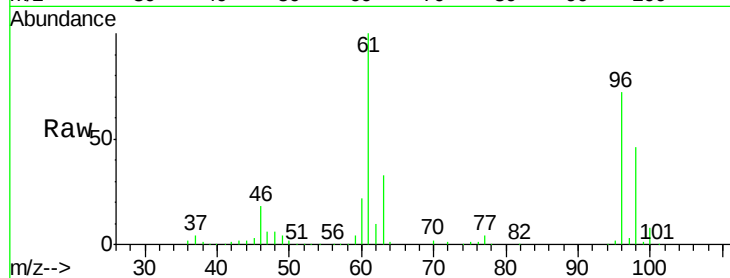
Tgt Ion: 96 Resp: 223074

Ion Ratio Lower Upper

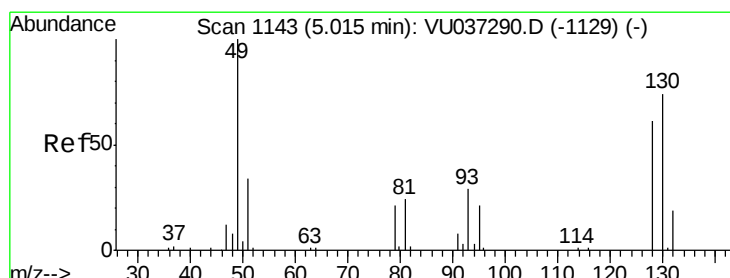
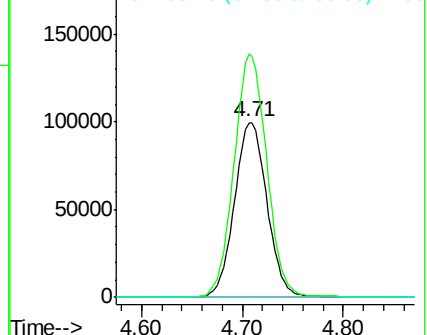
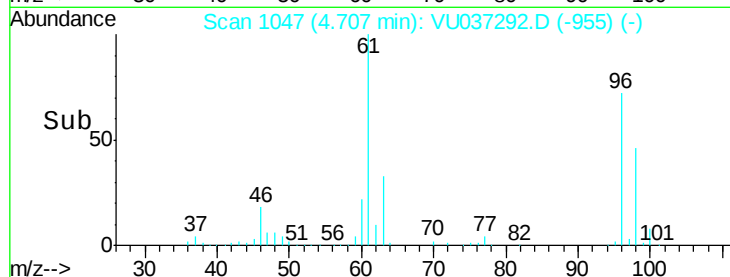
96 100

61 139.5 95.8 178.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037292.D (-955) (-)



#23

Bromochloromethane

Concen: 20.78 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Tgt Ion: 128 Resp: 98793

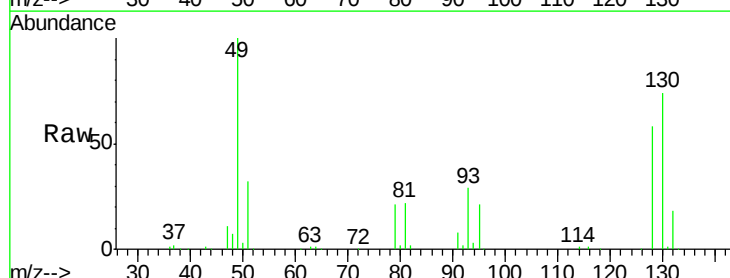
Ion Ratio Lower Upper

128 100

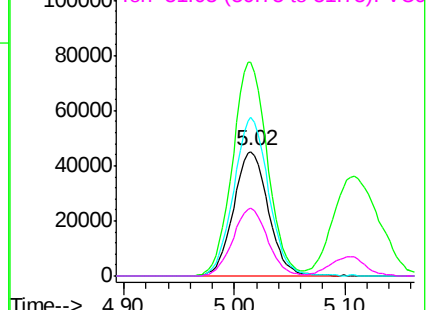
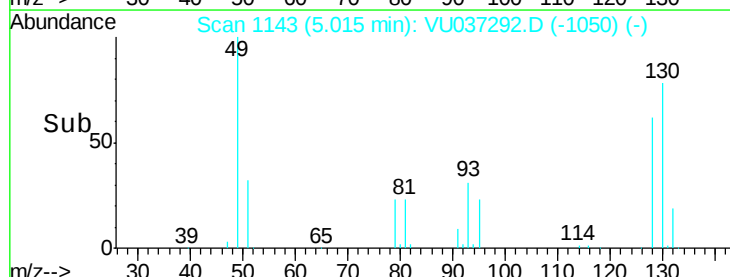
49 171.2 116.7 216.7

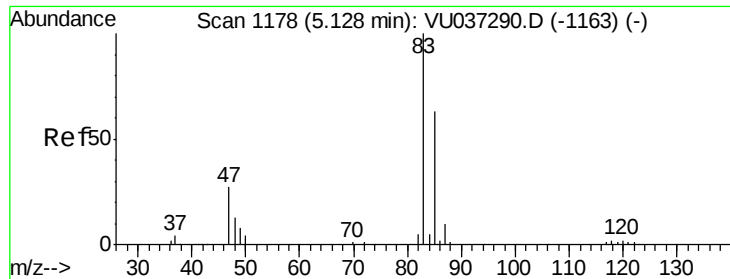
130 127.2 85.3 158.5

51 54.2 44.6 66.8



Abundance Ion 127.90 (127.60 to 128.60): VU037292.D (-1050) (-)

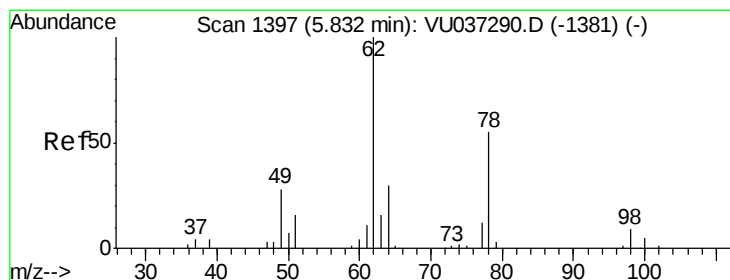
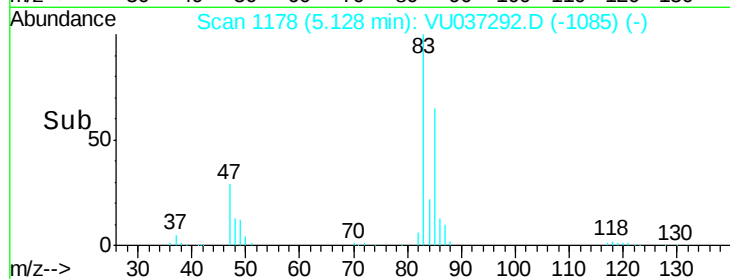
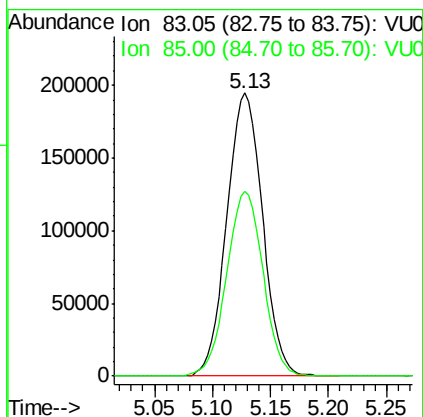
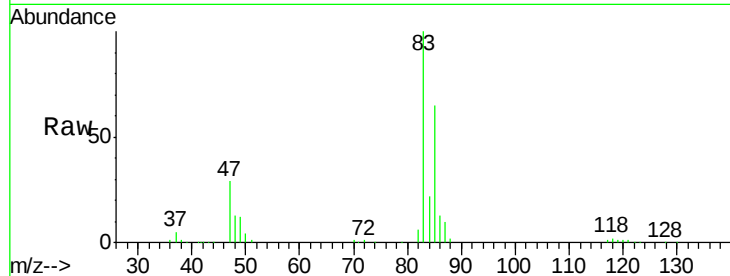




#25
Chloroform
Concen: 19.33 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

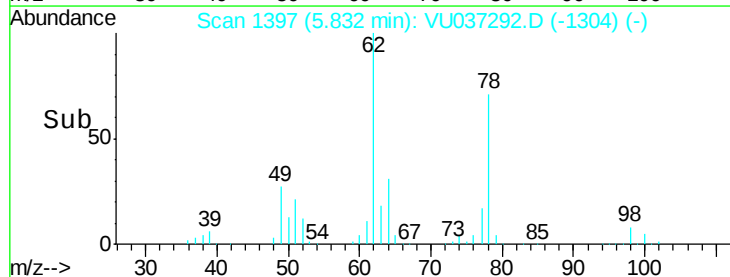
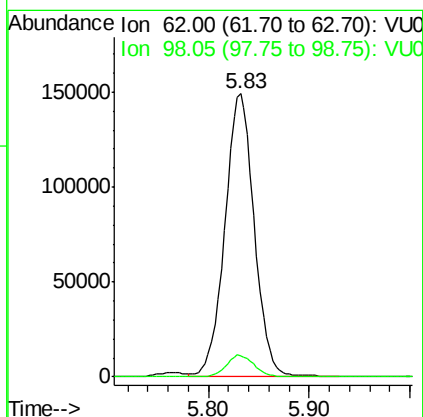
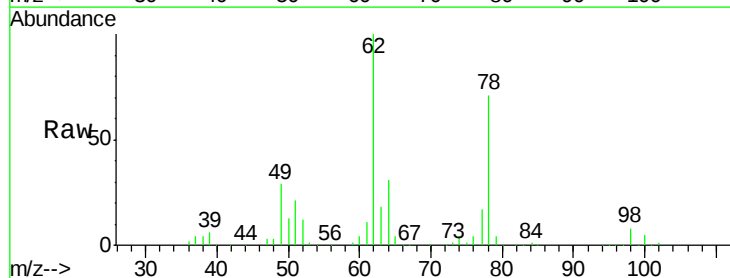
Instrument :
MSVOA_U
ClientSampleId :
VSTD02004

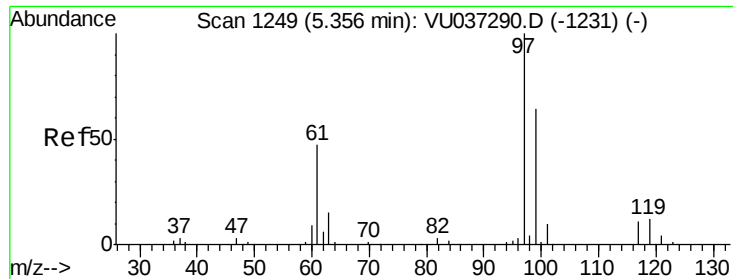
Tgt Ion: 83 Resp: 416804
Ion Ratio Lower Upper
83 100
85 65.4 44.7 82.9



#27
1,2-Dichloroethane
Concen: 19.89 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

Tgt Ion: 62 Resp: 301002
Ion Ratio Lower Upper
62 100
98 7.6 6.8 10.2

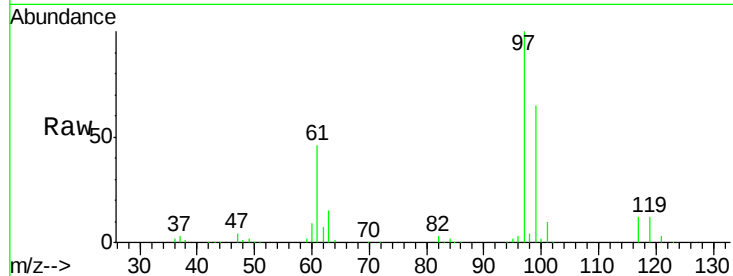




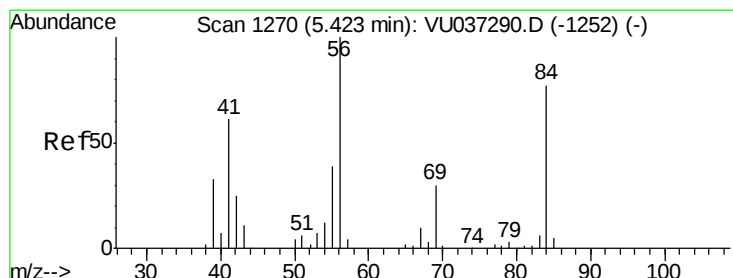
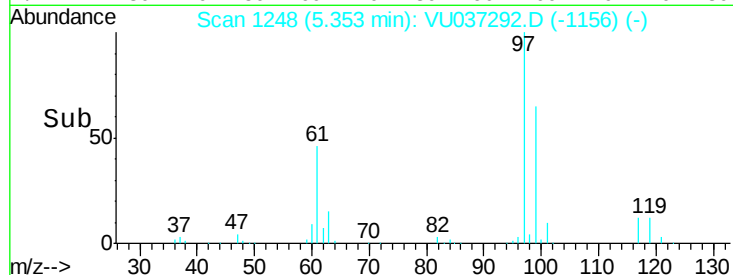
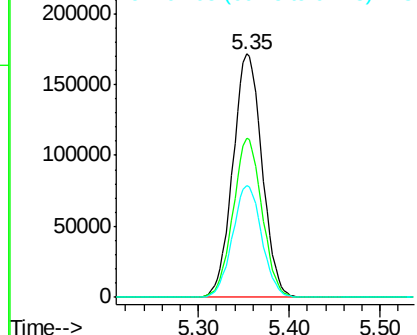
#29
 1,1,1-Trichloroethane
 Concen: 20.72 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VU037292.D
 Acq: 16 Mar 2020 13:18

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

Tgt Ion: 97 Resp: 381371
 Ion Ratio Lower Upper
 97 100
 99 64.8 50.6 76.0
 61 46.3 36.8 55.2

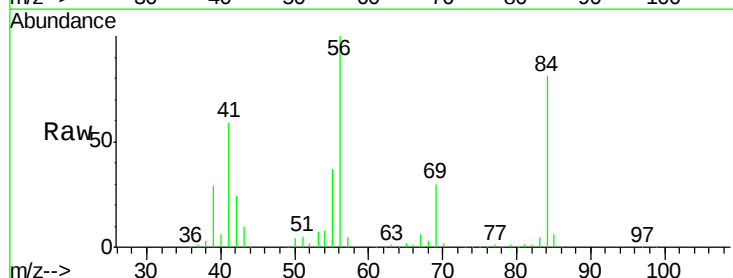


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

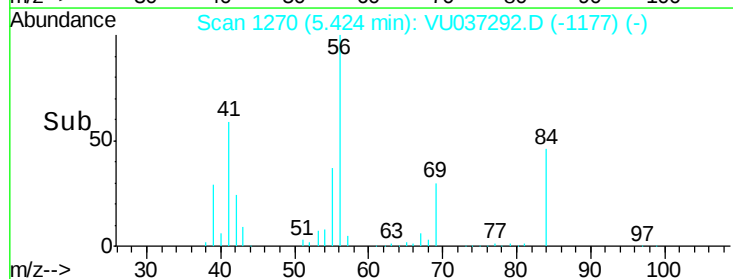
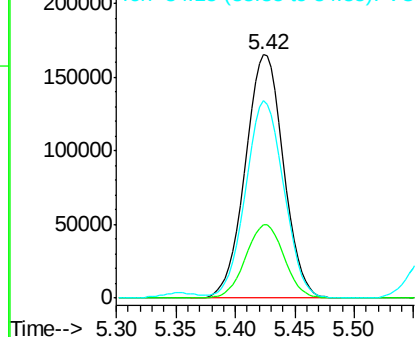


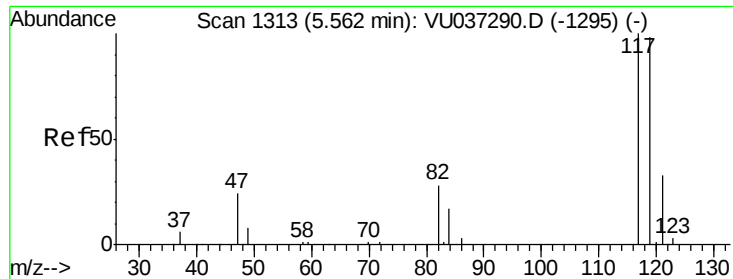
#30
 Cyclohexane
 Concen: 21.15 ug/L
 RT: 5.42 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VU037292.D
 Acq: 16 Mar 2020 13:18

Tgt Ion: 56 Resp: 367609
 Ion Ratio Lower Upper
 56 100
 69 30.4 24.3 36.5
 84 81.2 66.6 100.0



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





#31

Carbon tetrachloride

Concen: 21.91 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

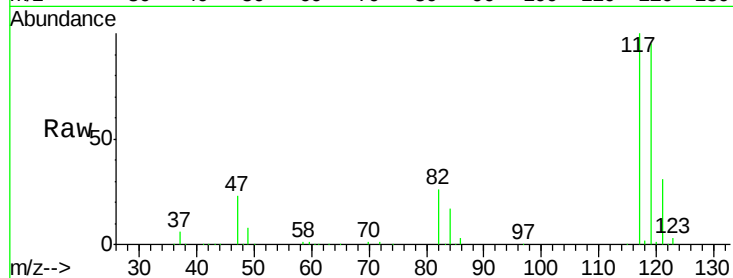
VSTD02004

Tgt Ion:117 Resp: 349822

Ion Ratio Lower Upper

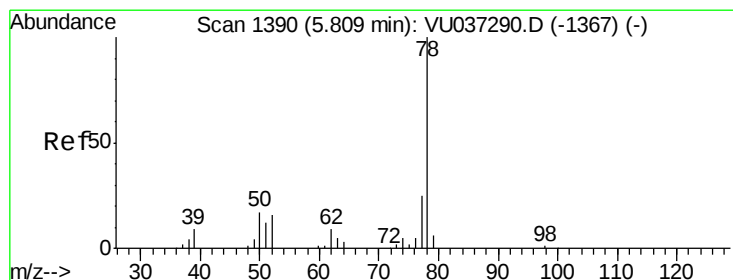
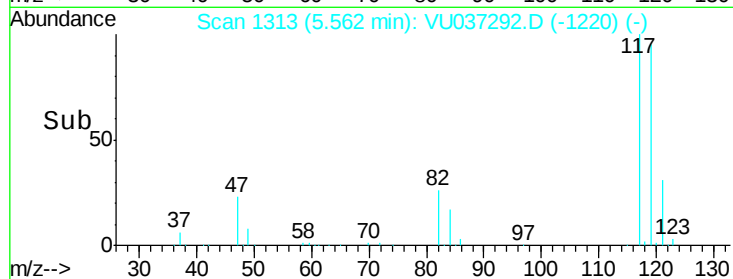
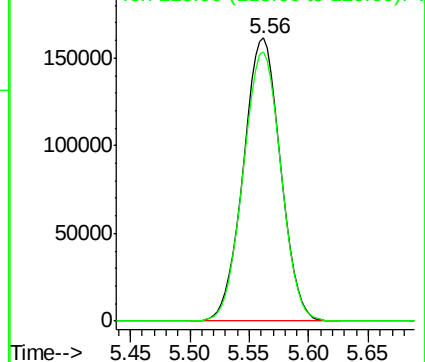
117 100

119 96.4 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 20.49 ug/L

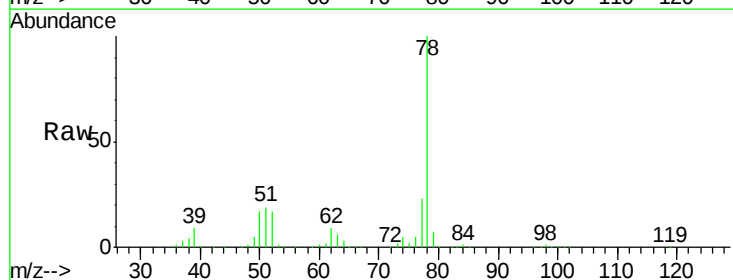
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

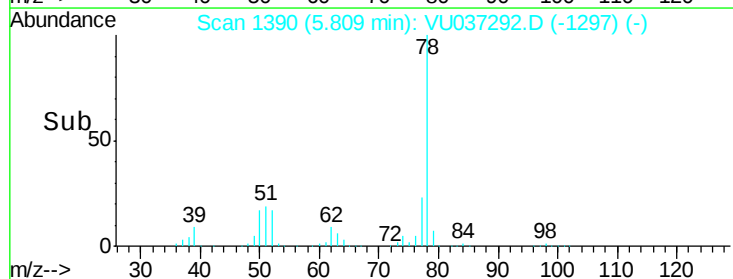
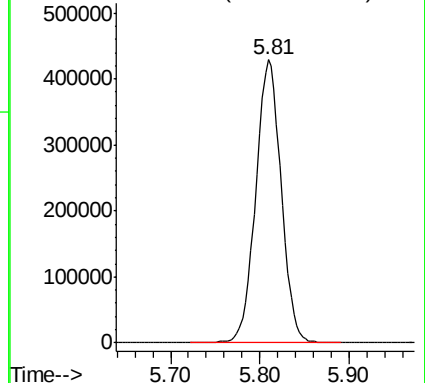
Lab File: VU037292.D

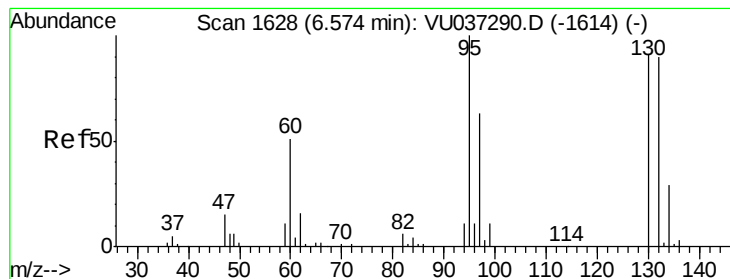
Acq: 16 Mar 2020 13:18

Tgt Ion: 78 Resp: 854782



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 20.35 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

Tgt Ion: 95 Resp: 230457

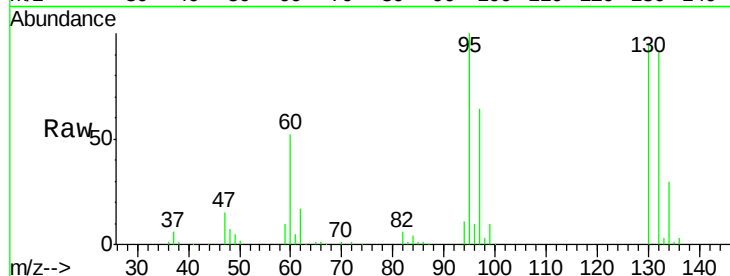
Ion Ratio Lower Upper

95 100

97 63.5 44.3 82.3

132 91.2 63.2 117.4

130 94.7 64.0 119.0

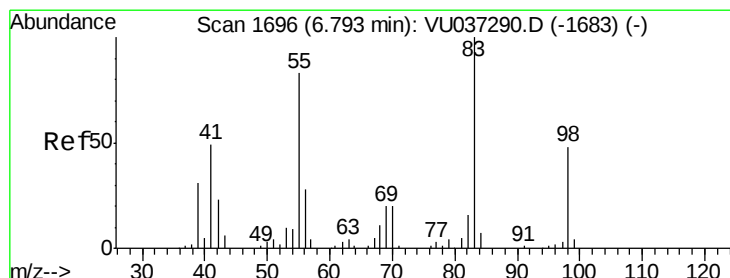
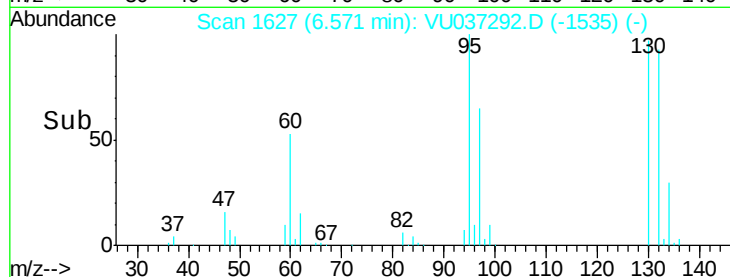
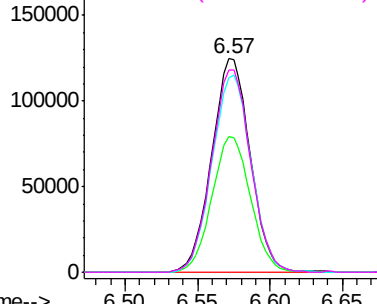


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 21.91 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

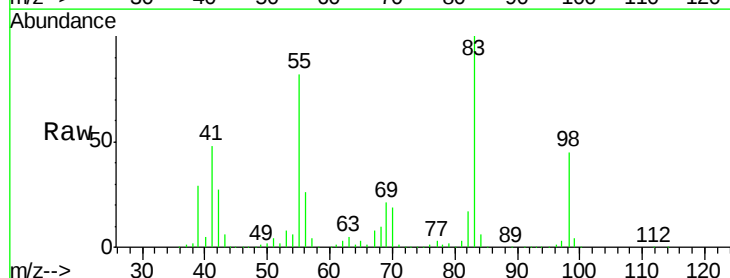
Tgt Ion: 83 Resp: 380897

Ion Ratio Lower Upper

83 100

55 81.4 67.0 100.6

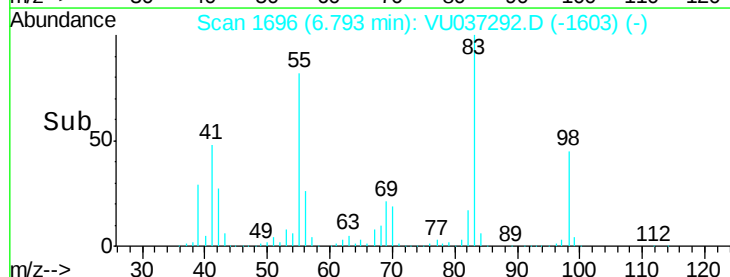
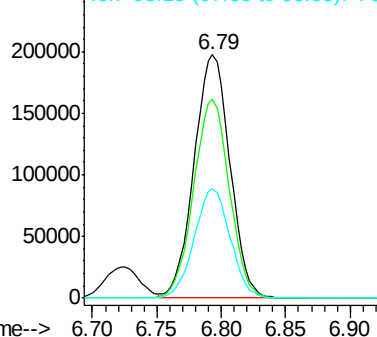
98 45.2 37.4 56.0

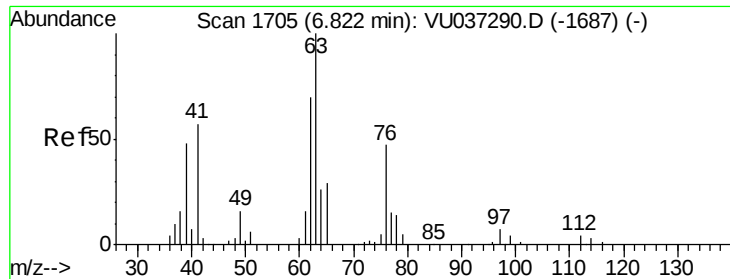


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

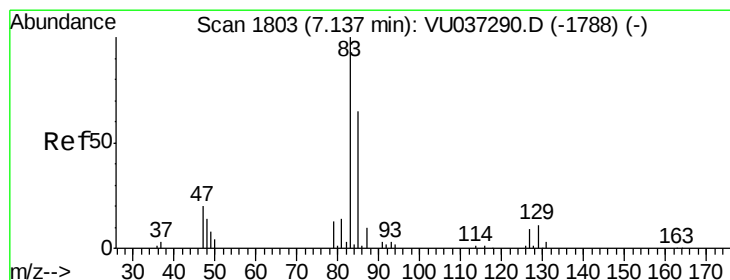
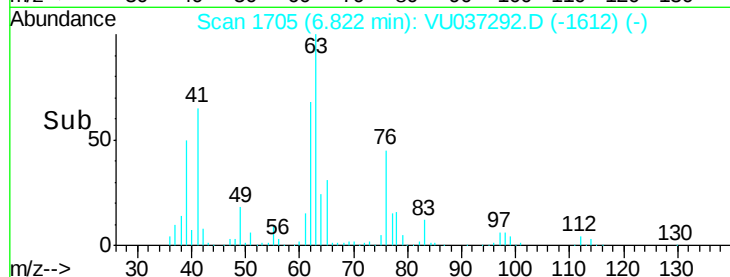
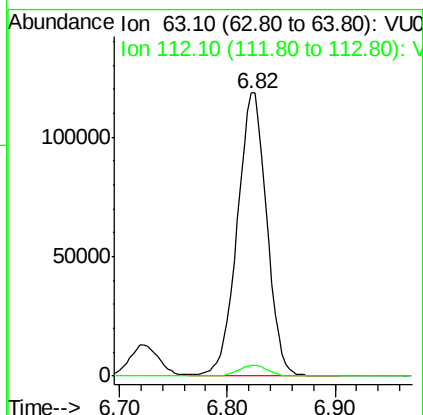
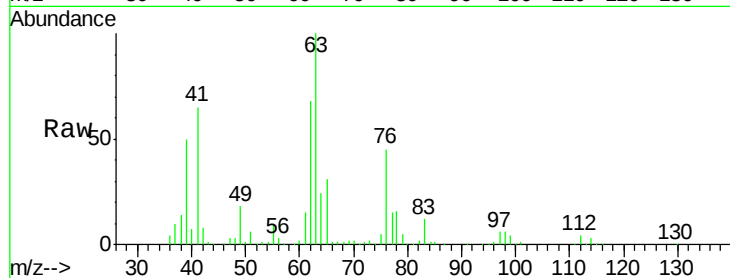




#37
 1,2-Dichloropropane
 Concen: 20.50 ug/L
 RT: 6.82 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VU037292.D
 Acq: 16 Mar 2020 13:18

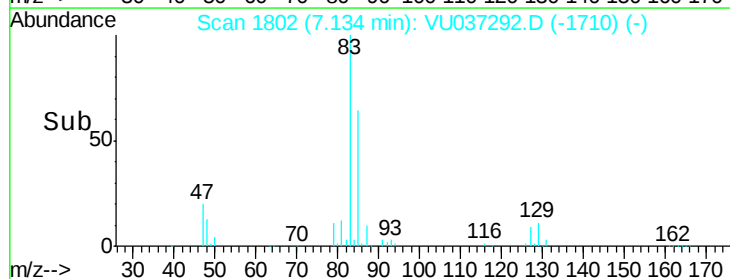
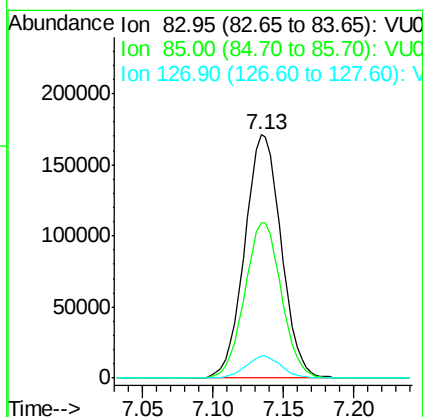
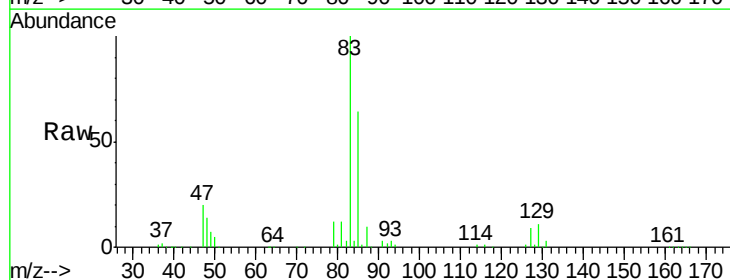
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD02004

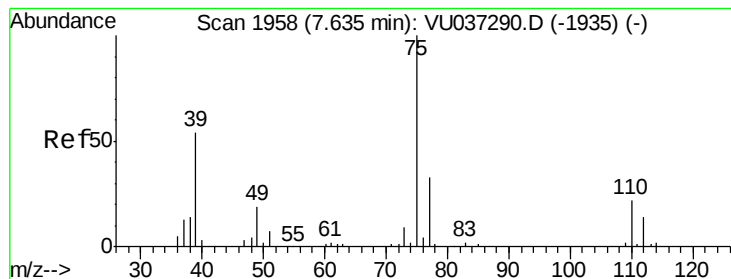
Tgt Ion: 63 Resp: 225325
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.1 4.7



#38
 Bromodichloromethane
 Concen: 21.02 ug/L
 RT: 7.13 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VU037292.D
 Acq: 16 Mar 2020 13:18

Tgt Ion: 83 Resp: 310573
 Ion Ratio Lower Upper
 83 100
 85 64.0 45.8 85.0
 127 9.0 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 22.69 ug/L

RT: 7.64 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

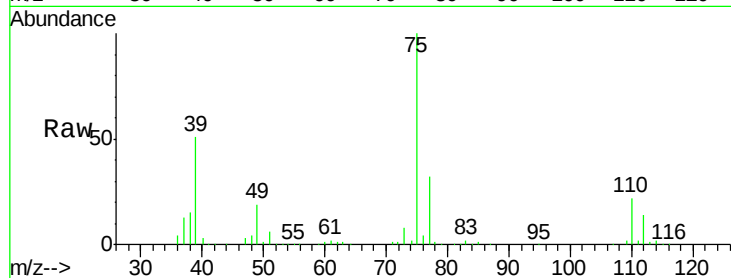
VSTD02004

Tgt Ion: 75 Resp: 361658

Ion Ratio Lower Upper

75 100

77 31.9 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VU037292.D (-1935) (-)

Ion 77.05 (76.75 to 77.75): VU037292.D (-1935) (-)

7.64

200000

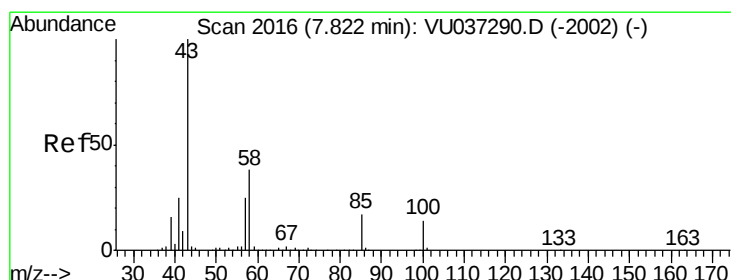
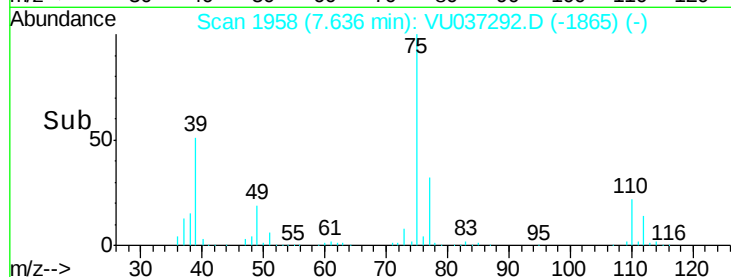
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#40

4-Methyl-2-pentanone

Concen: 207.59 ug/L

RT: 7.82 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

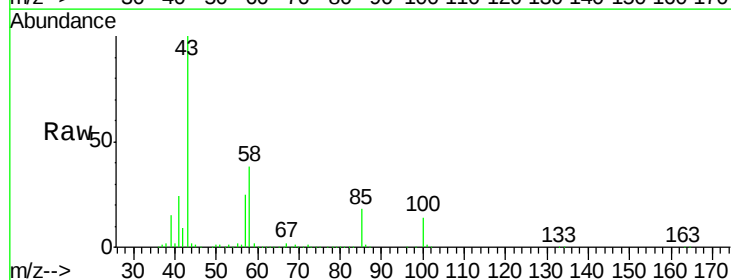
Tgt Ion: 43 Resp: 1613030

Ion Ratio Lower Upper

43 100

58 38.0 29.8 44.8

100 13.8 11.3 16.9



Abundance Ion 43.05 (42.75 to 43.75): VU037292.D (-1923) (-)

Ion 58.05 (57.75 to 58.75): VU037292.D (-1923) (-)

Ion 100.15 (99.85 to 100.85): VU037292.D (-1923) (-)

7.82

1200000

1000000

800000

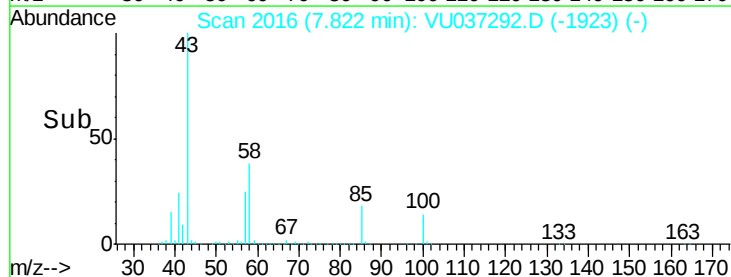
600000

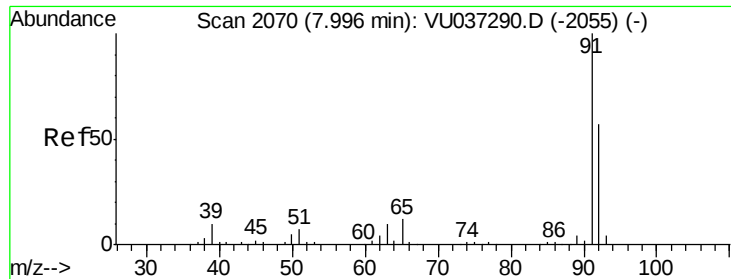
400000

200000

0

Time--> 7.80 7.90





#42

Toluene

Concen: 21.40 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

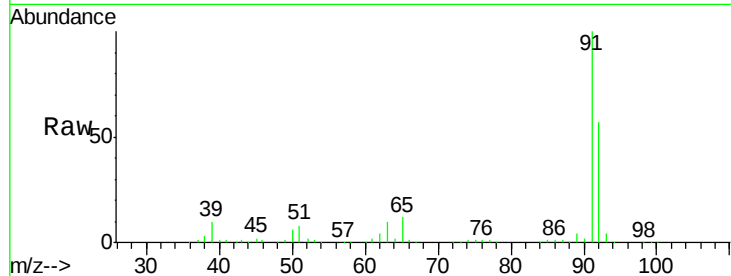
VSTD02004

Tgt Ion: 91 Resp: 959885

Ion Ratio Lower Upper

91 100

92 56.6 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VU037292.D (-1977) (-)

Ion 92.15 (91.85 to 92.85): VU037292.D (-1977) (-)

8.00

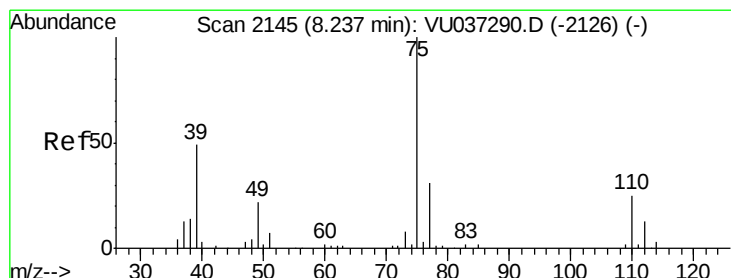
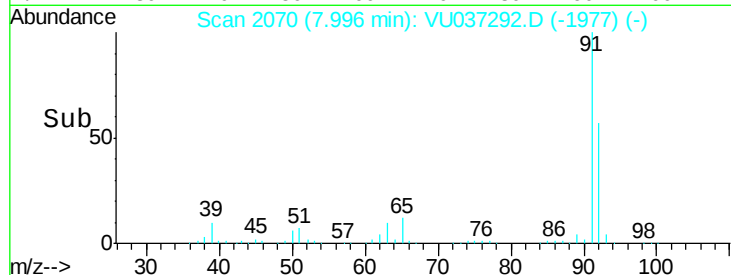
600000

400000

200000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 23.33 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037292.D

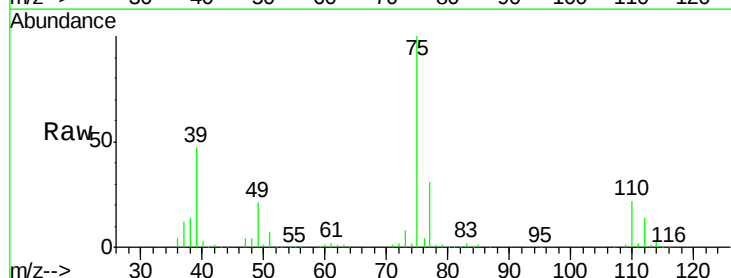
Acq: 16 Mar 2020 13:18

Tgt Ion: 75 Resp: 310268

Ion Ratio Lower Upper

75 100

77 30.8 21.9 40.7



Abundance Ion 75.05 (74.75 to 75.75): VU037292.D (-2052) (-)

Ion 77.05 (76.75 to 77.75): VU037292.D (-2052) (-)

8.23

200000

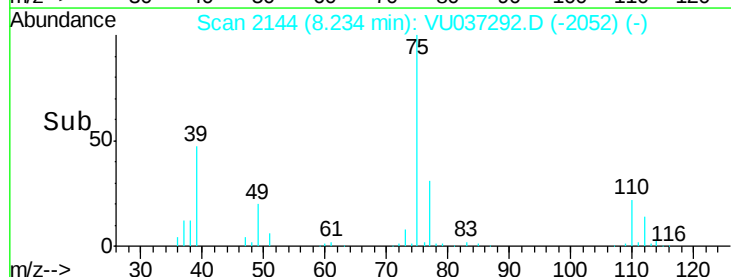
150000

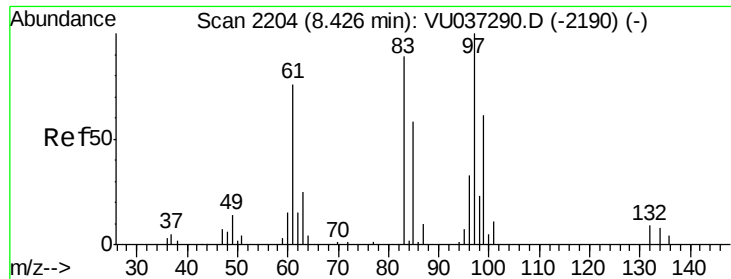
100000

50000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 20.02 ug/L

RT: 8.42 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

Tgt Ion: 97 Resp: 158997

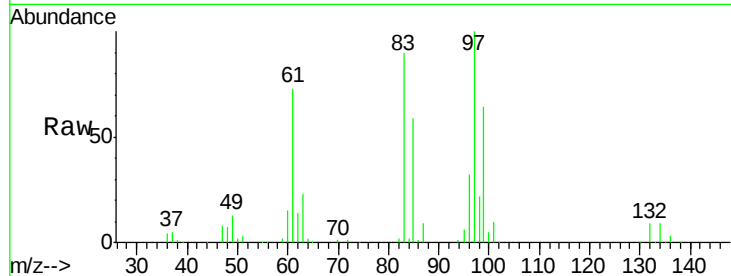
Ion Ratio Lower Upper

97 100

99 63.9 42.8 79.6

83 90.4 62.4 115.8

85 58.6 40.7 75.7

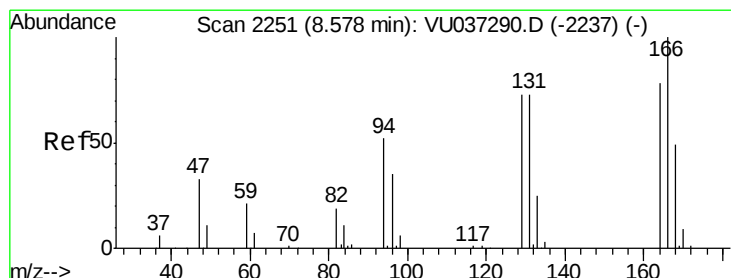
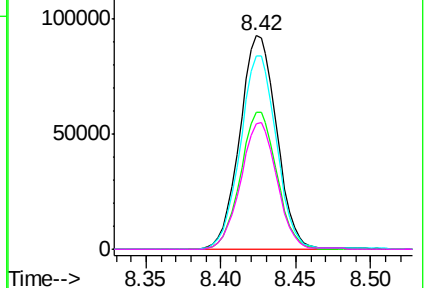
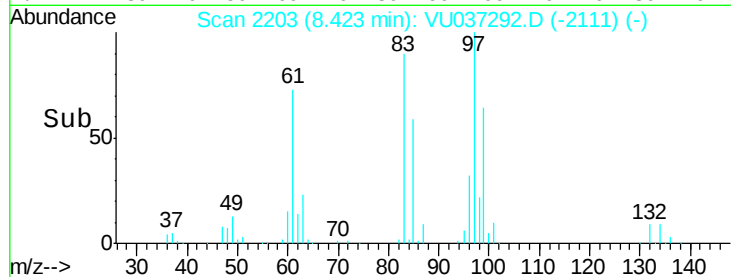


Abundance Ion 96.95 (96.65 to 97.65): VU037292.D (-2111) (-)

Ion 99.05 (98.75 to 99.75): VU037292.D (-2111) (-)

Ion 82.95 (82.65 to 83.65): VU037292.D (-2111) (-)

Ion 85.00 (84.70 to 85.70): VU037292.D (-2111) (-)



#47

Tetrachloroethene

Concen: 20.69 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Tgt Ion: 164 Resp: 182488

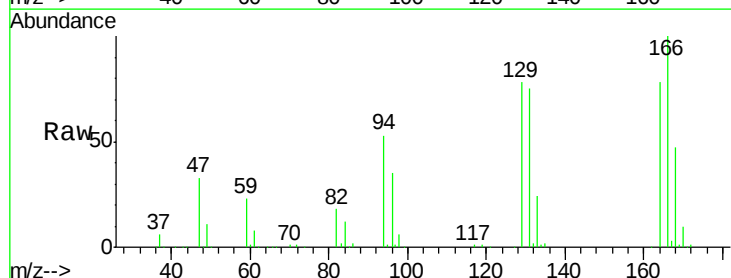
Ion Ratio Lower Upper

164 100

129 99.8 65.8 122.2

131 96.1 65.1 120.9

166 128.5 89.7 166.5

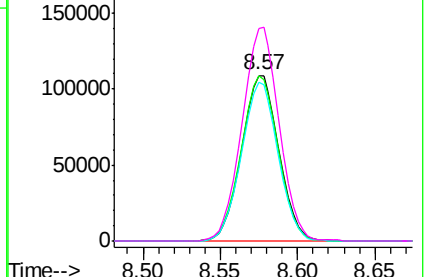
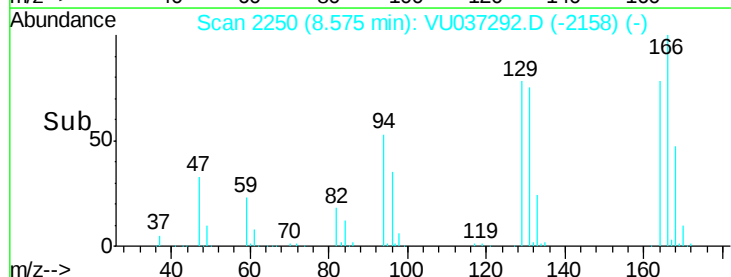


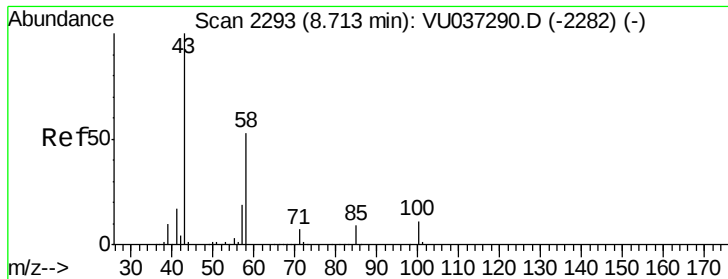
Abundance Ion 163.90 (163.60 to 164.60): VU037292.D (-2158) (-)

Ion 128.95 (128.65 to 129.65): VU037292.D (-2158) (-)

Ion 130.95 (130.65 to 131.65): VU037292.D (-2158) (-)

Ion 165.90 (165.60 to 166.60): VU037292.D (-2158) (-)

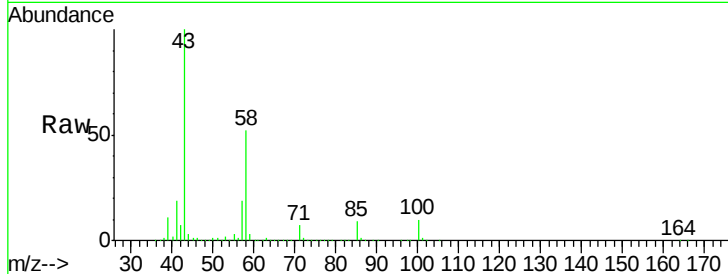




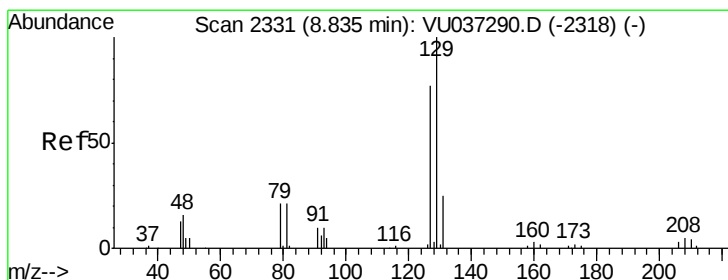
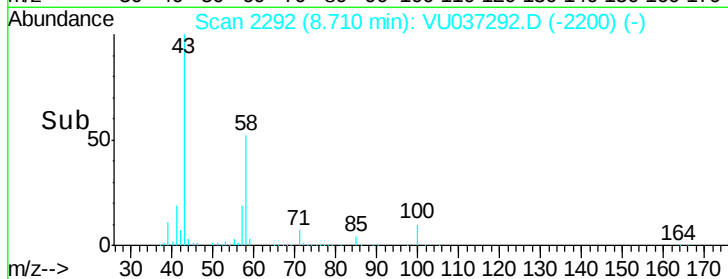
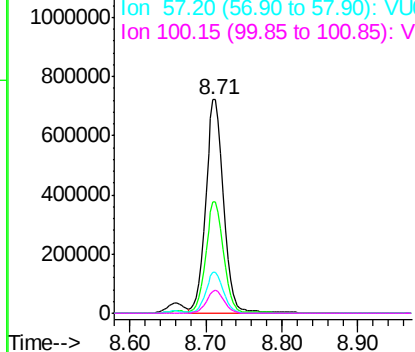
#48
2-Hexanone
Concen: 220.38 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

Instrument :
MSVOA_U
ClientSampled :
VSTD02004

Tgt Ion: 43 Resp: 1185913
Ion Ratio Lower Upper
43 100
58 52.1 41.9 62.9
57 18.9 14.7 22.1
100 10.6 8.6 13.0

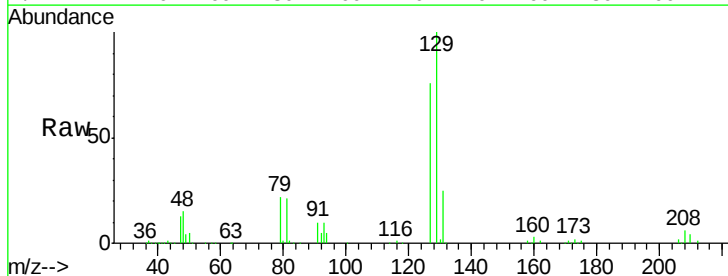


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

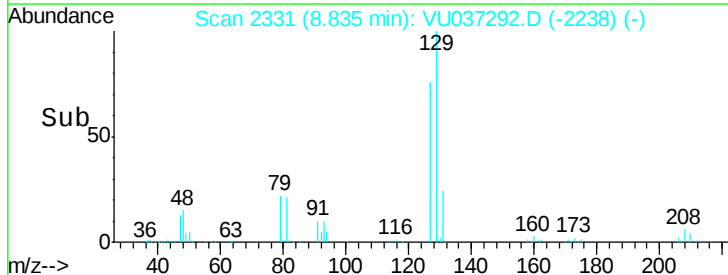
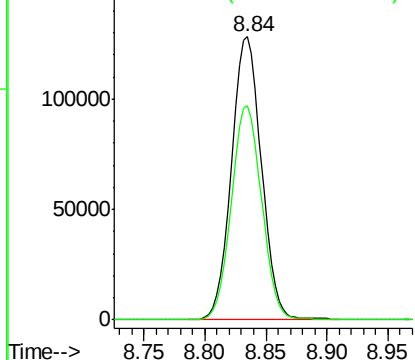


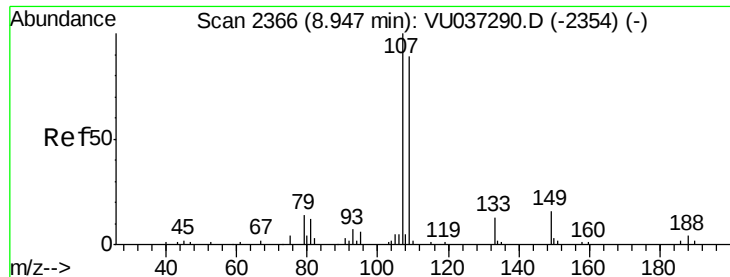
#49
Dibromochloromethane
Concen: 22.61 ug/L
RT: 8.84 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

Tgt Ion: 129 Resp: 219654
Ion Ratio Lower Upper
129 100
127 75.6 53.6 99.6



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

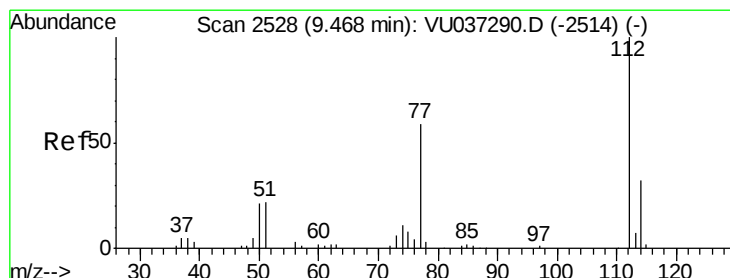
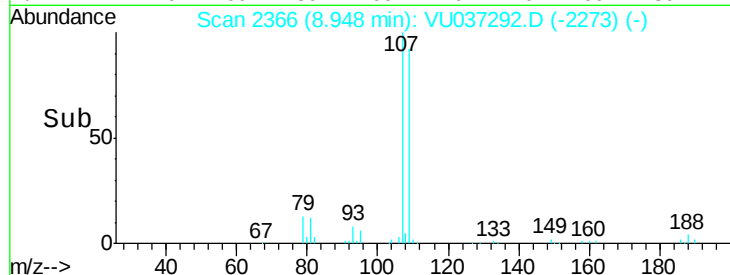
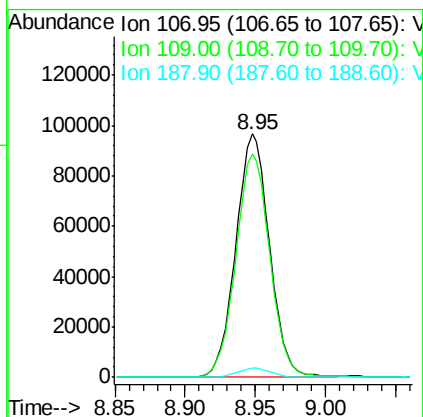
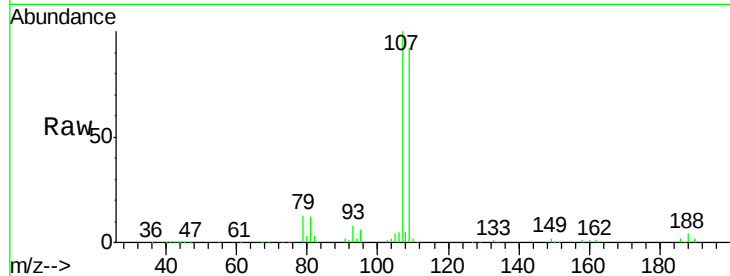




#50
1,2-Dibromoethane
Concen: 21.46 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. 0.00 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

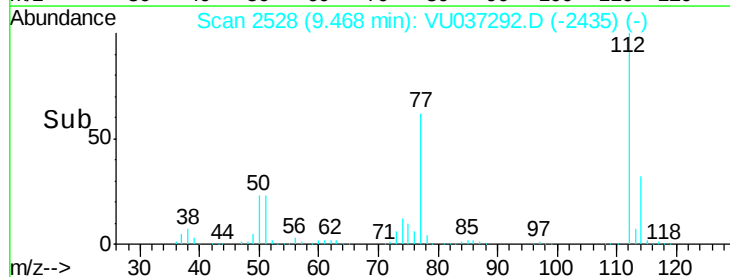
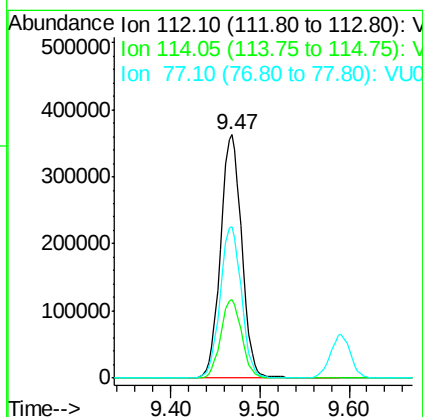
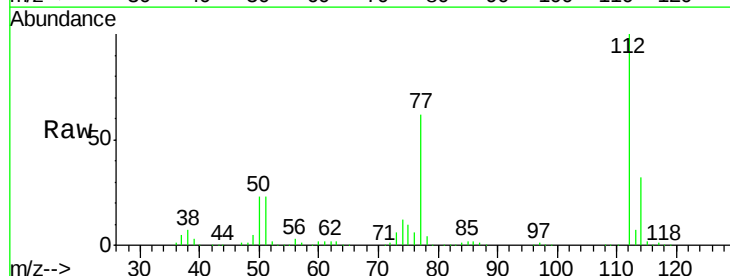
Instrument :
MSVOA_U
ClientSampleId :
VSTD02004

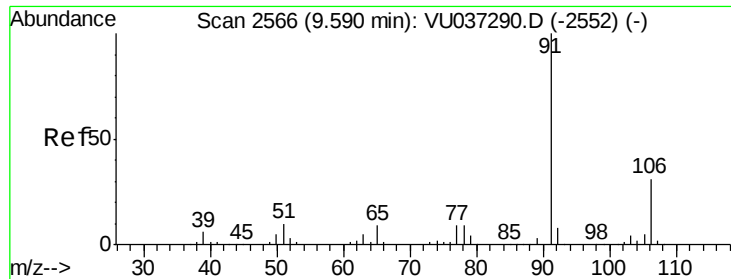
Tgt Ion:107 Resp: 161956
Ion Ratio Lower Upper
107 100
109 91.9 62.3 115.7
188 3.8 3.0 4.6



#51
Chlorobenzene
Concen: 20.47 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. 0.00 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

Tgt Ion:112 Resp: 594634
Ion Ratio Lower Upper
112 100
114 32.4 22.1 41.1
77 62.4 47.8 71.6





#52

Ethylbenzene

Concen: 22.33 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

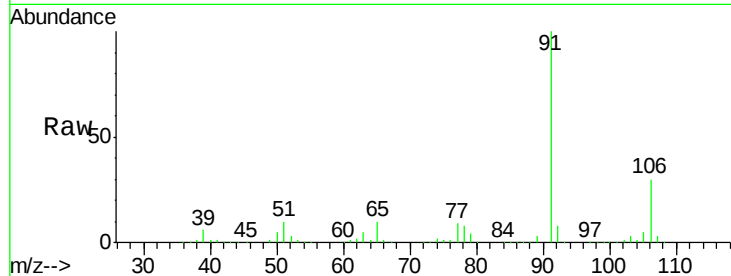
VSTD02004

Tgt Ion: 91 Resp: 1109470

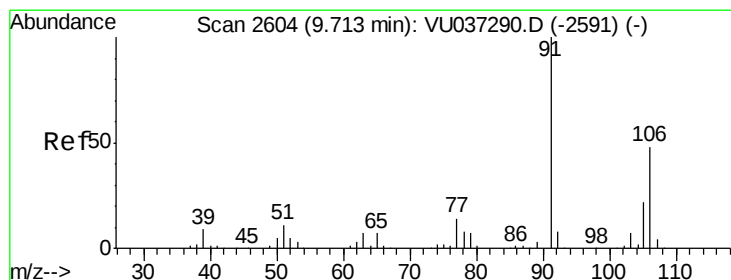
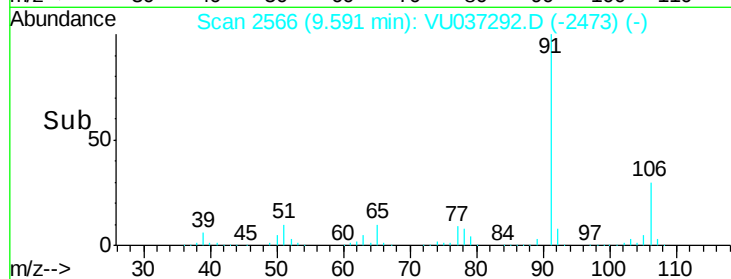
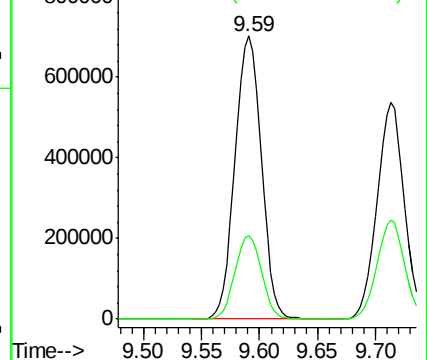
Ion Ratio Lower Upper

91 100

106 29.5 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VU037292.D (-2552) (-)



#53

m,p-Xylene

Concen: 22.91 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037292.D

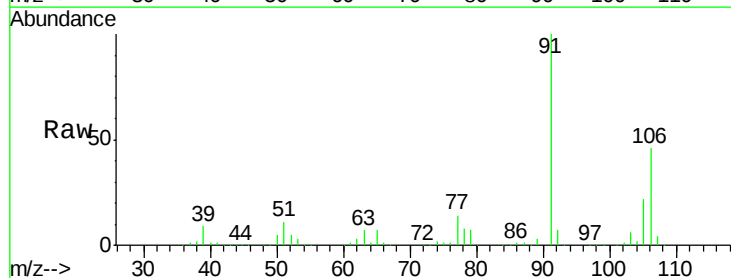
Acq: 16 Mar 2020 13:18

Tgt Ion: 106 Resp: 409263

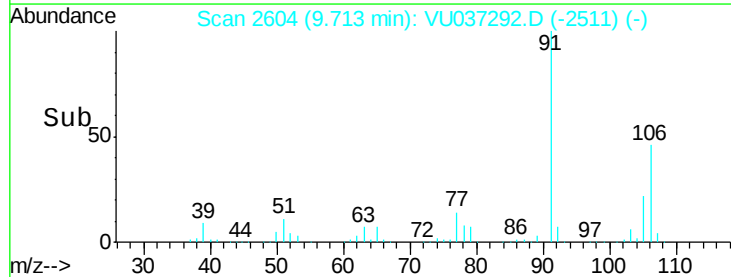
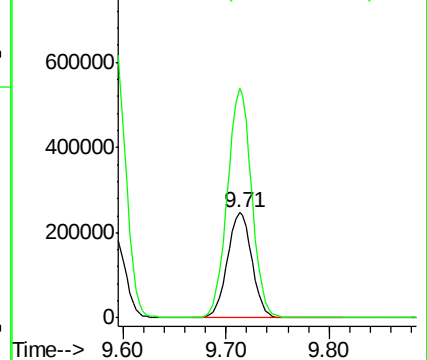
Ion Ratio Lower Upper

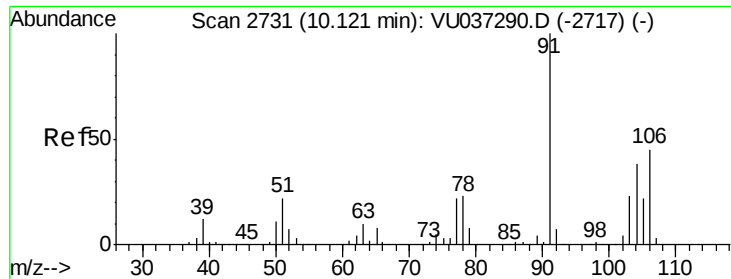
106 100

91 218.4 147.2 273.4



Abundance Ion 106.15 (105.85 to 106.85): VU037292.D (-2591) (-)

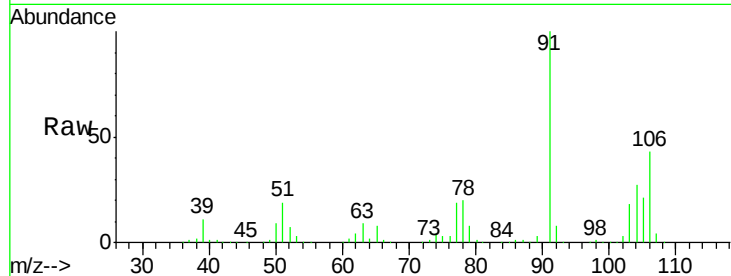




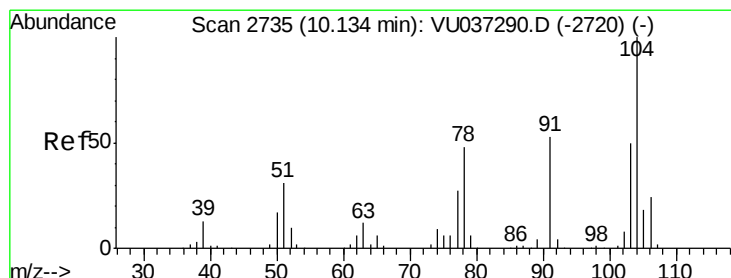
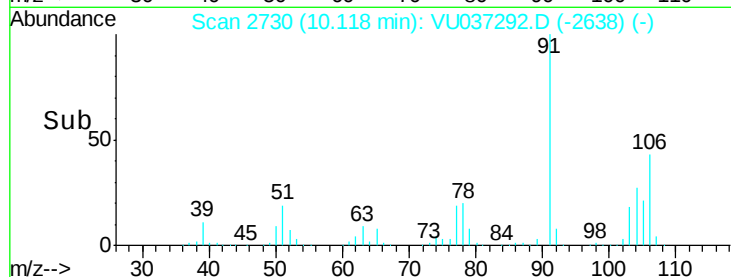
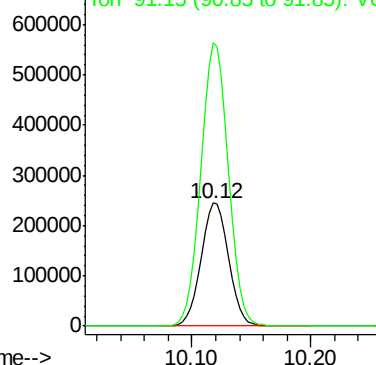
#54
o-Xylene
Concen: 22.38 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

Instrument :
MSVOA_U
ClientSampleId :
VSTD02004

Tgt Ion:106 Resp: 393190
Ion Ratio Lower Upper
106 100
91 230.1 155.8 289.3

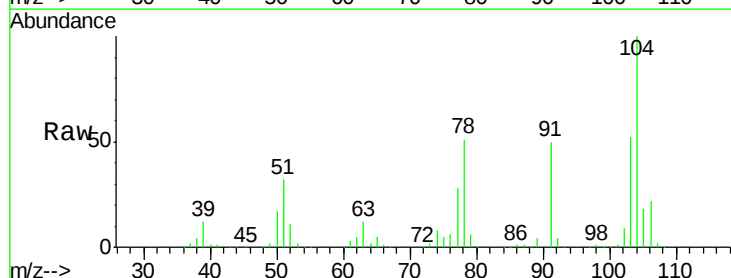


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

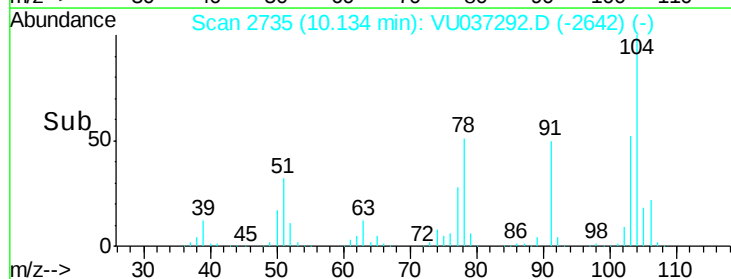
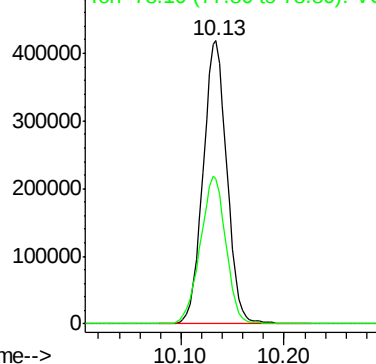


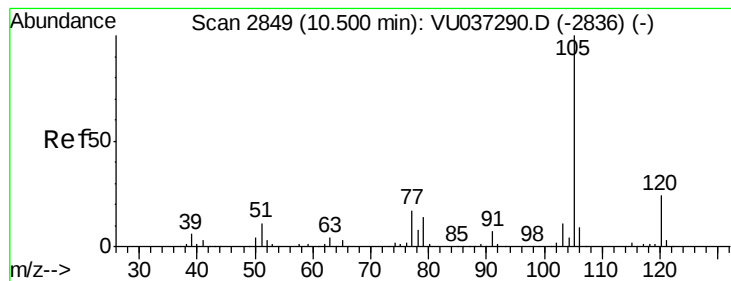
#55
Styrene
Concen: 23.47 ug/L
RT: 10.13 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VU037292.D
Acq: 16 Mar 2020 13:18

Tgt Ion:104 Resp: 673518
Ion Ratio Lower Upper
104 100
78 51.2 33.6 62.4



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





#56

Isopropylbenzene

Concen: 23.50 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

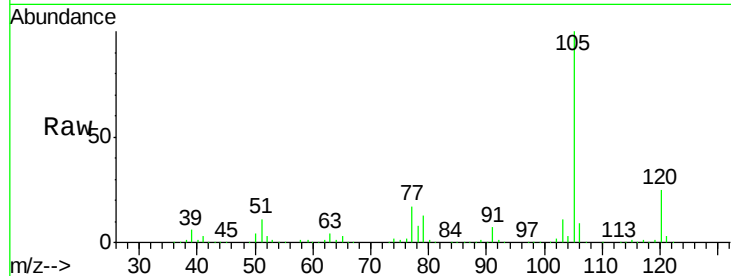
Tgt Ion:105 Resp: 1107194

Ion Ratio Lower Upper

105 100

120 25.2 20.2 30.2

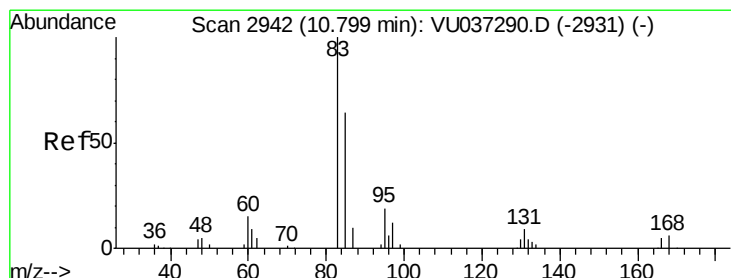
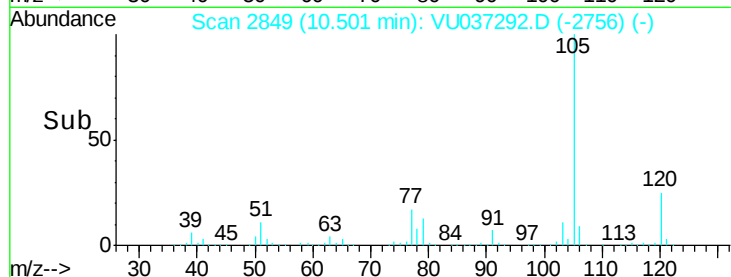
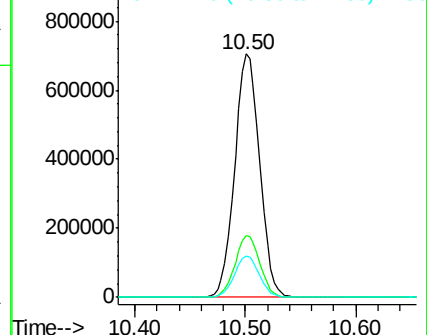
77 17.0 13.8 20.6



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: 21.55 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

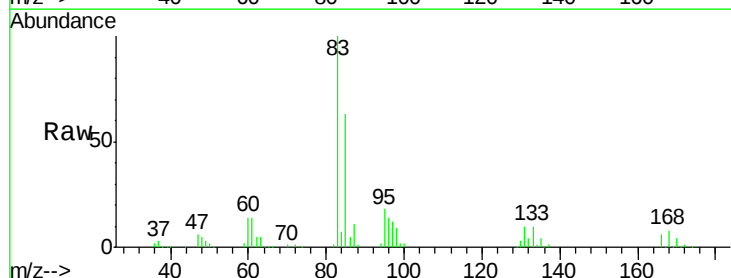
Tgt Ion: 83 Resp: 212626

Ion Ratio Lower Upper

83 100

85 63.3 45.9 85.3

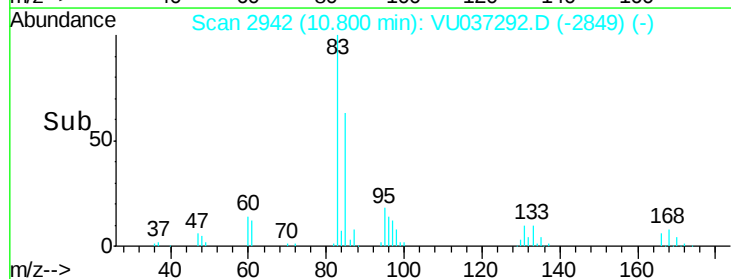
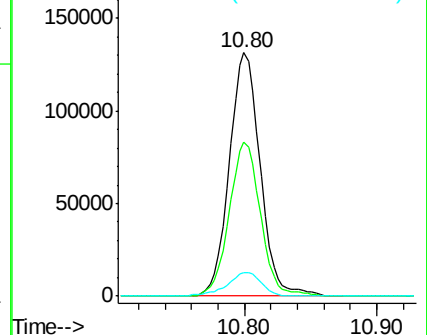
131 9.9 7.5 11.3

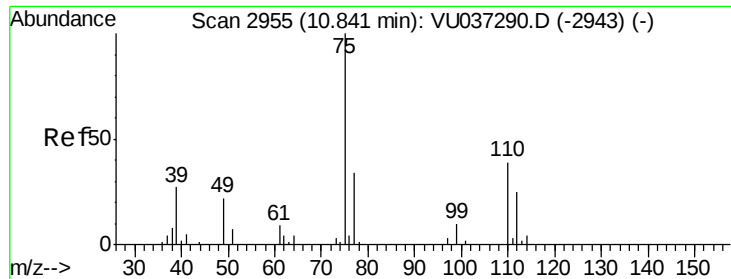


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 20.09 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

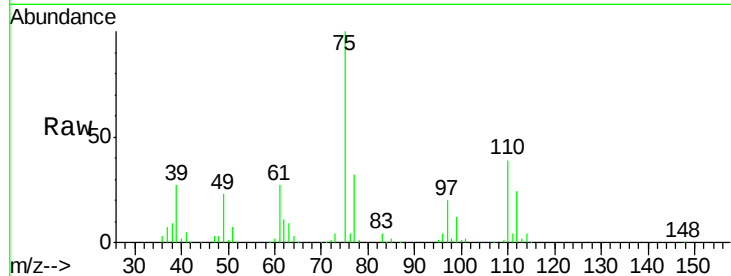
VSTD02004

Tgt Ion: 75 Resp: 158844

Ion Ratio Lower Upper

75 100

77 31.6 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU037290.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU037290.D (-2943) (-)

10.84

100000

80000

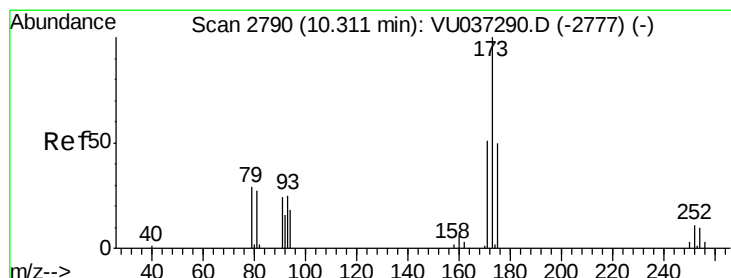
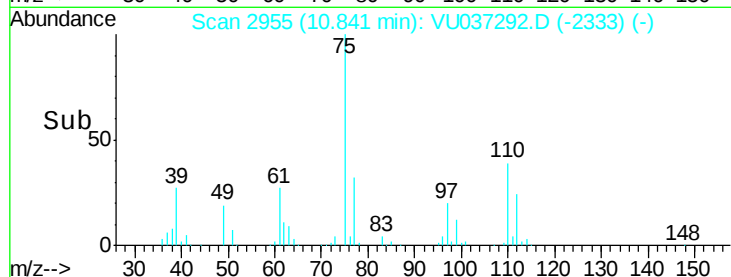
60000

40000

20000

0

Time--> 10.75 10.80 10.85 10.90



#61

Bromoform

Concen: 21.91 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

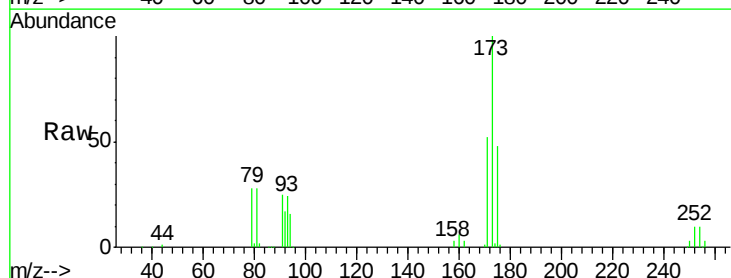
Tgt Ion: 173 Resp: 129213

Ion Ratio Lower Upper

173 100

175 48.4 38.2 57.2

254 10.3 7.8 11.8



Abundance Ion 172.90 (172.60 to 173.60): VU037290.D (-2777) (-)

Ion 174.90 (174.60 to 175.60): VU037290.D (-2777) (-)

Ion 253.75 (253.45 to 254.45): VU037290.D (-2777) (-)

10.31

100000

80000

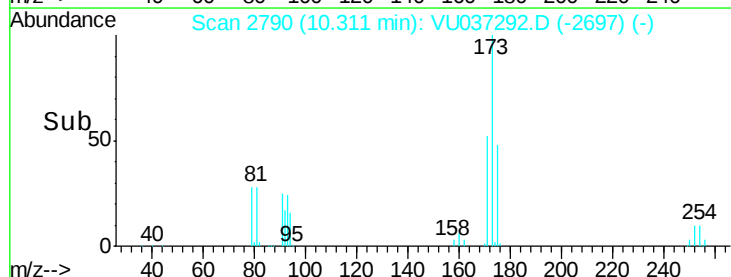
60000

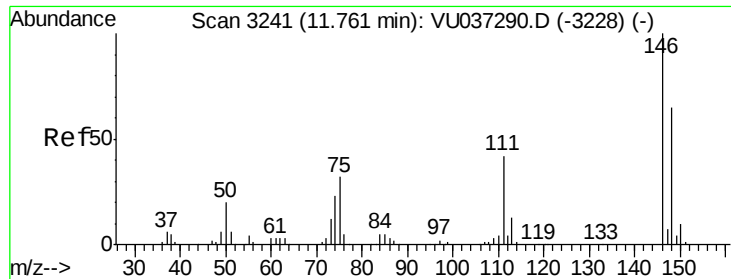
40000

20000

0

Time--> 10.30 10.40





#62

1,3-Dichlorobenzene

Concen: 19.83 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

Instrument :

MSVOA_U

ClientSampleId :

VSTD02004

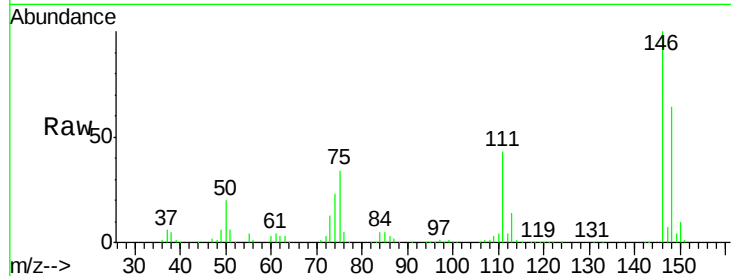
Tgt Ion:146 Resp: 492543

Ion Ratio Lower Upper

146 100

111 43.1 29.6 55.0

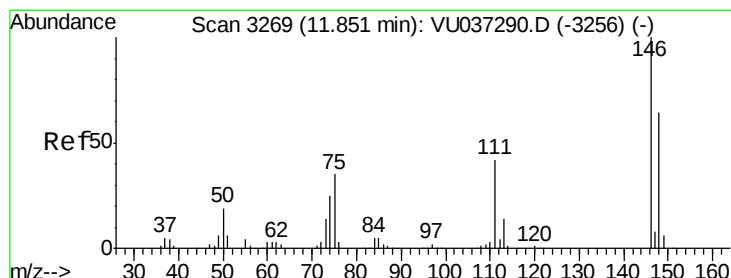
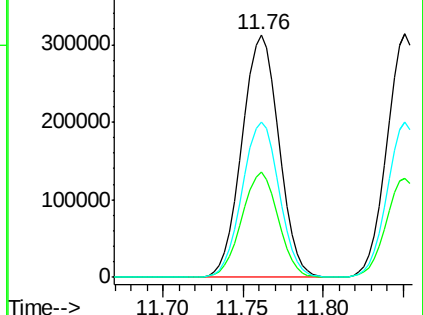
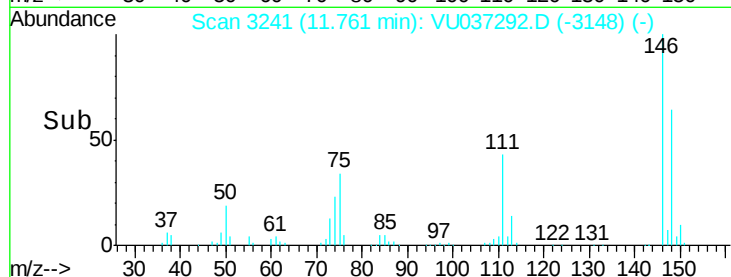
148 64.2 45.6 84.8



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



#63

1,4-Dichlorobenzene

Concen: 19.98 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037292.D

Acq: 16 Mar 2020 13:18

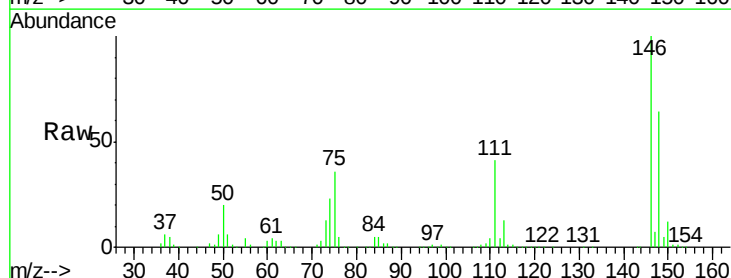
Tgt Ion:146 Resp: 492986

Ion Ratio Lower Upper

146 100

111 40.7 29.0 53.9

148 63.6 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

