

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU031620\
 Data File : VU037290.D
 Acq On : 16 Mar 2020 12:29
 Operator : JC/MD
 Sample : VSTD00502
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Quant Time: Mar 16 18:29:00 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	138099	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	133516	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	69909	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	34272	3.99	ug/L	0.00
7) Chloroethane-d5	1.93	69	31584	4.99	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.59	63	79524	4.42	ug/L	0.00
20) 2-Butanone-d5	4.68	46	110456	48.33	ug/L	0.00
24) Chloroform-d	5.10	84	82627	4.58	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.74	65	47417	4.51	ug/L	0.00
32) Benzene-d6	5.76	84	143570	4.51	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.72	67	47566	4.59	ug/L	0.00
41) Toluene-d8	7.92	98	141161	4.72	ug/L	0.00
43) trans-1,3-Dichloropropene-	8.20	79	21238	5.05	ug/L	0.00
46) 2-Hexanone-d5	8.66	63	95583	53.63	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.77	84	41982	4.86	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	12.21	152	54642	4.59	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.39	85	79044	4.55	ug/L	100
3) Chloromethane	1.53	50	72916	4.82	ug/L	100
5) Vinyl chloride	1.62	62	67312	5.00	ug/L	100
6) Bromomethane	1.87	94	34120	6.33	ug/L	100
8) Chloroethane	1.95	64	36834	5.21	ug/L	100
9) Trichlorofluoromethane	2.16	101	101586	5.23	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	47231	4.84	ug/L	100
12) 1,1-Dichloroethene	2.60	96	43314	4.88	ug/L	100
13) Acetone	2.68	43	93971	50.62	ug/L	100
14) Carbon disulfide	2.82	76	136377	4.67	ug/L	100
15) Methyl Acetate	2.99	43	21174	4.80	ug/L	100
16) Methylene chloride	3.08	84	49517	4.66	ug/L	100
17) Methyl tert-butyl Ether	3.41	73	123830	5.13	ug/L	100
18) trans-1,2-Dichloroethene	3.39	96	45711	4.91	ug/L	100
19) 1,1-Dichloroethane	3.91	63	93456	4.92	ug/L	100
21) 2-Butanone	4.76	43	148645	50.57	ug/L	100
22) cis-1,2-Dichloroethene	4.71	96	50548	4.89	ug/L	100
23) Bromochloromethane	5.01	128	23832	5.21	ug/L	100
25) Chloroform	5.13	83	101016	4.87	ug/L	100
27) 1,2-Dichloroethane	5.83	62	71082	4.88	ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	91654	5.33	ug/L	100
30) Cyclohexane	5.42	56	80315	4.94	ug/L	100
31) Carbon tetrachloride	5.56	117	79644	5.34	ug/L	100
33) Benzene	5.81	78	199712	5.12	ug/L	100
34) Trichloroethene	6.57	95	54391	5.14	ug/L	100
35) Methylcyclohexane	6.79	83	82564	5.08	ug/L	100
37) 1,2-Dichloropropane	6.82	63	53199	5.18	ug/L	100
38) Bromodichloromethane	7.14	83	73619	5.33	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	79694	5.35	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	370048	50.94	ug/L	100

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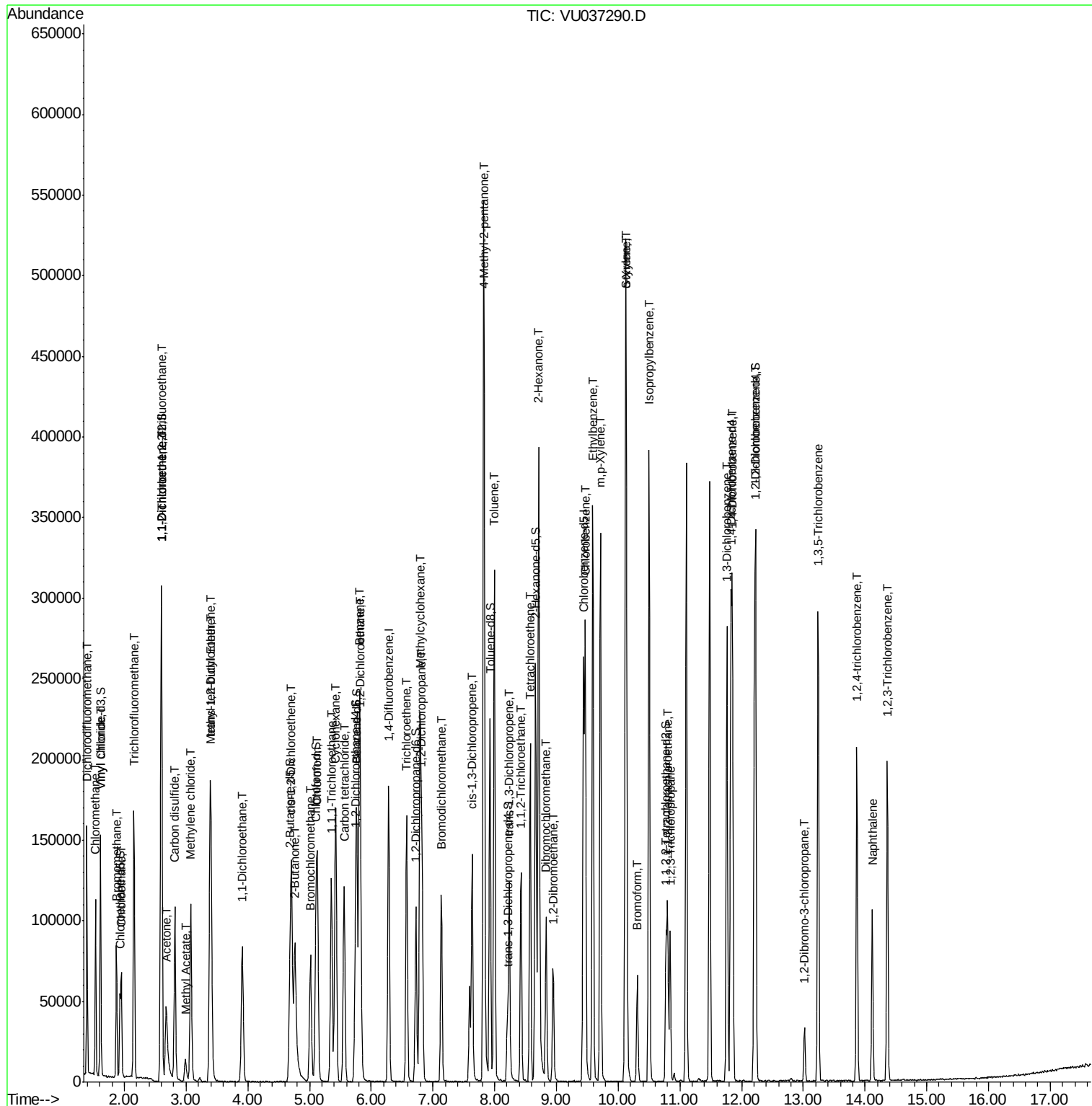
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.00	91	220417	5.26	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	67058	5.39	ug/L	100
45) 1,1,2-Trichloroethane	8.43	97	38056	5.13	ug/L	100
47) Tetrachloroethene	8.58	164	42307	5.13	ug/L	100
48) 2-Hexanone	8.71	43	269132	53.50	ug/L	100
49) Dibromochloromethane	8.83	129	50093	5.52	ug/L	100
50) 1,2-Dibromoethane	8.95	107	37451	5.31	ug/L	100
51) Chlorobenzene	9.47	112	136792	5.04	ug/L	100
52) Ethylbenzene	9.59	91	245272	5.28	ug/L	100
53) m,p-Xylene	9.71	106	90560	5.42	ug/L	100
54) o-Xylene	10.12	106	89382	5.44	ug/L	100
55) Styrene	10.13	104	147314	5.49	ug/L	100
56) Isopropylbenzene	10.50	105	241626	5.49	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.80	83	49756	5.39	ug/L	100
59) 1,2,3-Trichloropropane	10.84	75	37311	5.05	ug/L	100
61) Bromoform	10.31	173	29120	5.40	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	111508	4.91	ug/L	100
63) 1,4-Dichlorobenzene	11.85	146	108400	4.80	ug/L	100
65) 1,2-Dichlorobenzene	12.23	146	106678	4.94	ug/L	100
66) 1,2-Dibromo-3-chloropropan	13.02	75	8286	4.99	ug/L	100
67) 1,3,5-Trichlorobenzene	13.24	180	84577	5.35	ug/L	100
68) 1,2,4-trichlorobenzene	13.87	180	61197	5.63	ug/L	100
69) Naphthalene	14.12	128	83228	5.38	ug/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	57122	5.62	ug/L	100

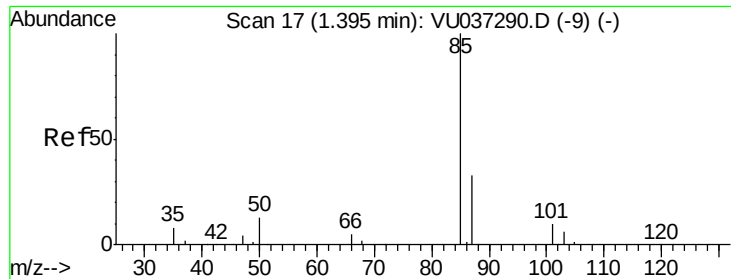
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_U\DATA\VU031620\
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#2

Dichlorodifluoromethane

Concen: 4.55 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

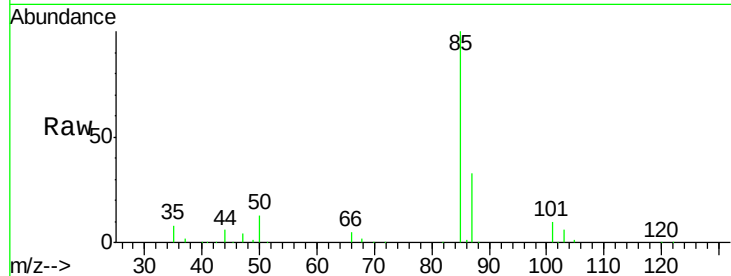
VSTD00502

Tgt Ion: 85 Resp: 79044

Ion Ratio Lower Upper

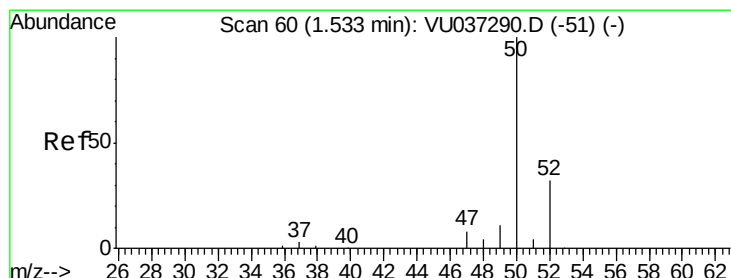
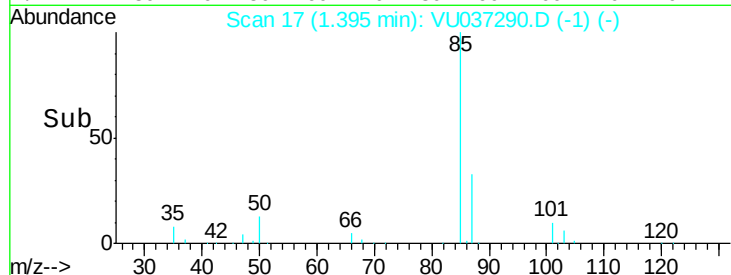
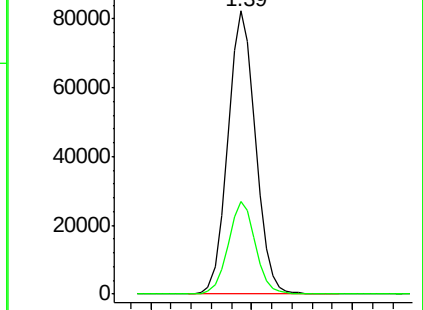
85 100

87 31.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VU037290.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037290.D (-9) (-)



#3

Chloromethane

Concen: 4.82 ug/L

RT: 1.53 min Scan# 60

Delta R.T. 0.00 min

Lab File: VU037290.D

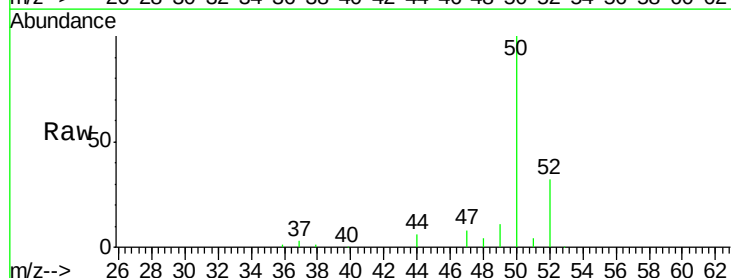
Acq: 16 Mar 2020 12:29

Tgt Ion: 50 Resp: 72916

Ion Ratio Lower Upper

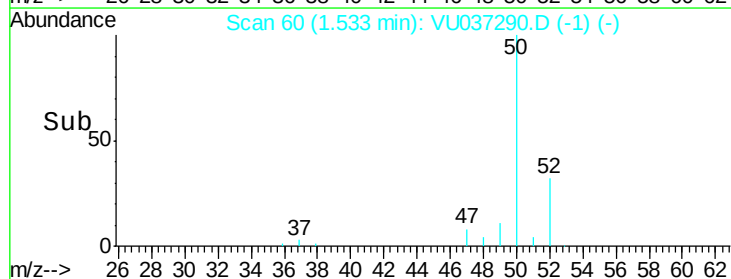
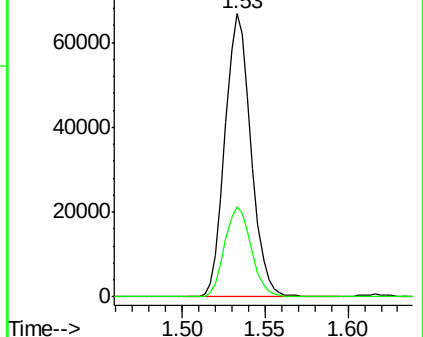
50 100

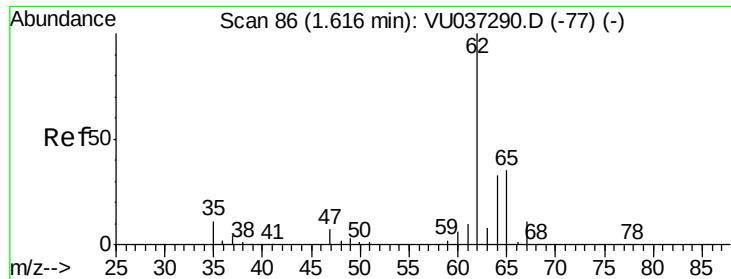
52 31.9 22.3 41.5



Abundance Ion 50.05 (49.75 to 50.75): VU037290.D (-51) (-)

Ion 52.05 (51.75 to 52.75): VU037290.D (-51) (-)





#5

Vinyl chloride

Concen: 5.00 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

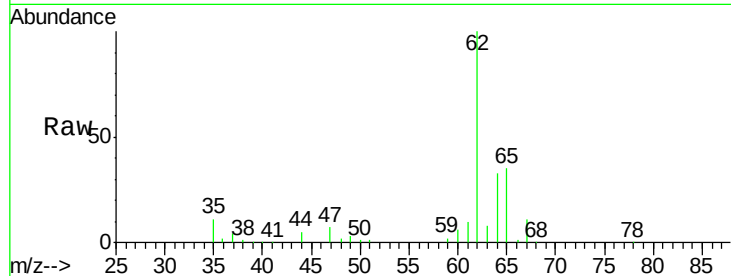
VSTD00502

Tgt Ion: 62 Resp: 67312

Ion Ratio Lower Upper

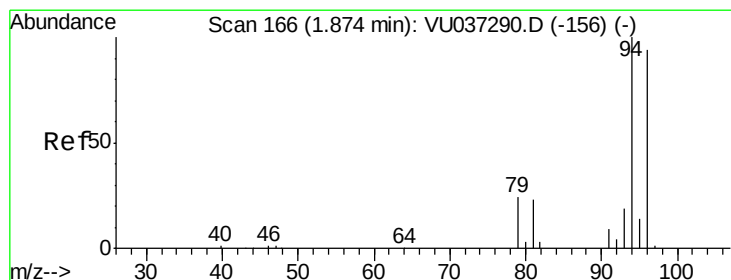
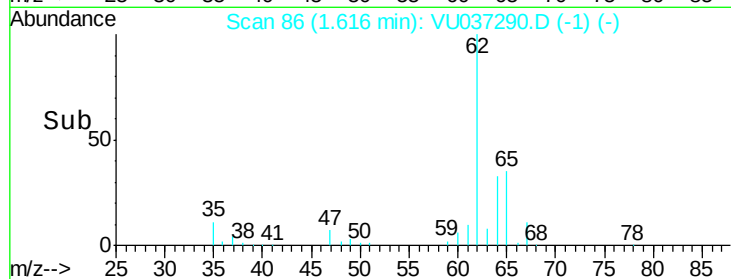
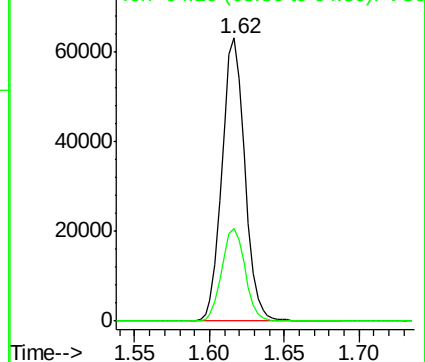
62 100

64 32.6 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 6.33 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037290.D

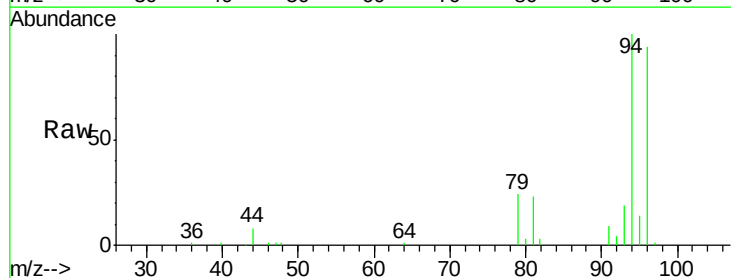
Acq: 16 Mar 2020 12:29

Tgt Ion: 94 Resp: 34120

Ion Ratio Lower Upper

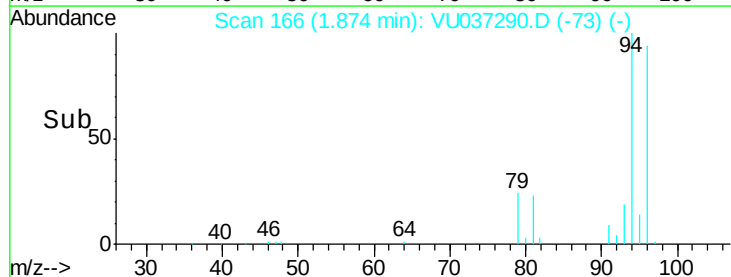
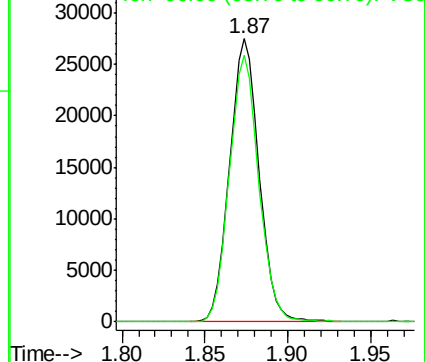
94 100

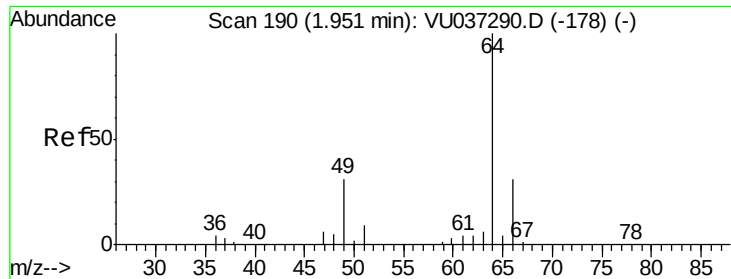
96 94.1 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

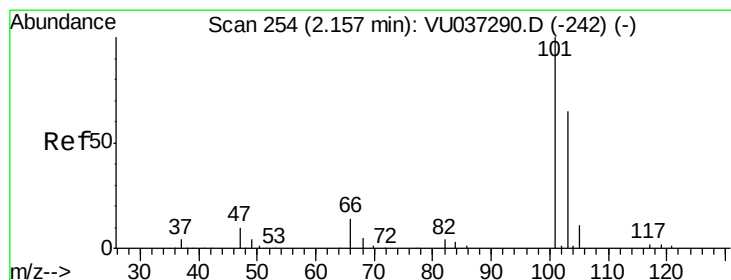
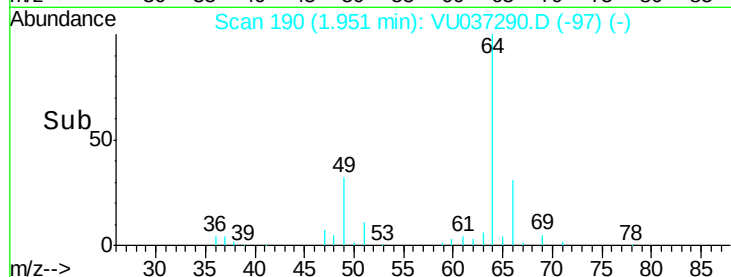
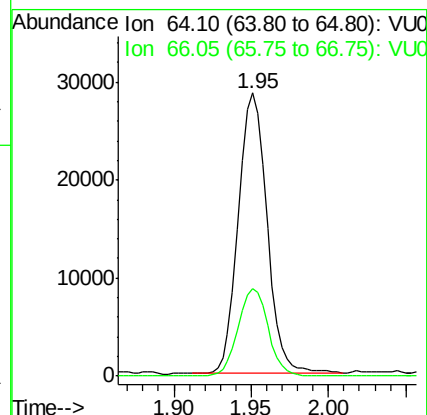
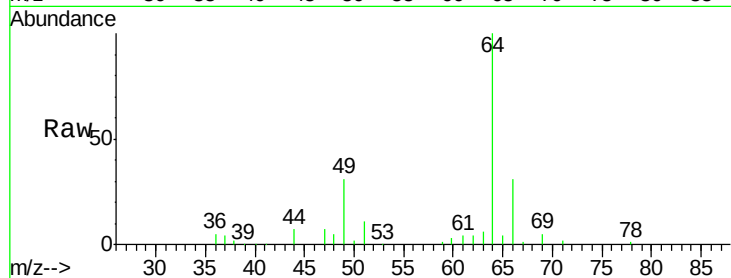




#8
Chloroethane
Concen: 5.21 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

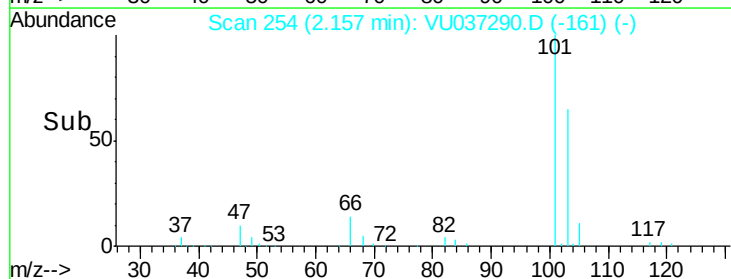
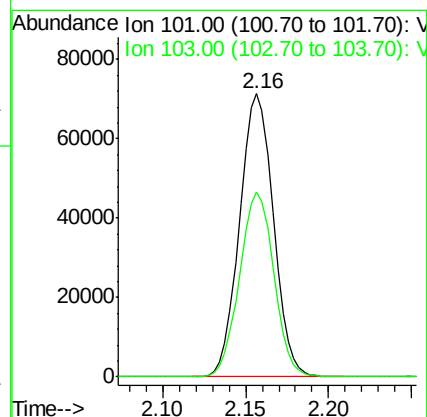
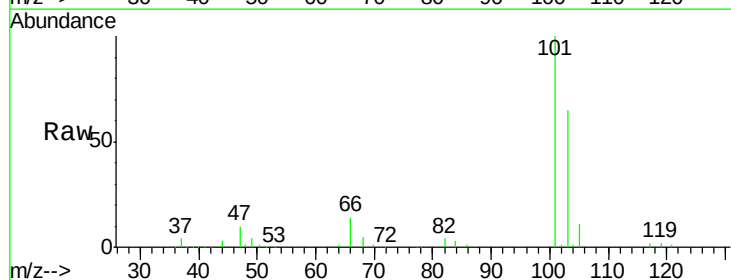
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

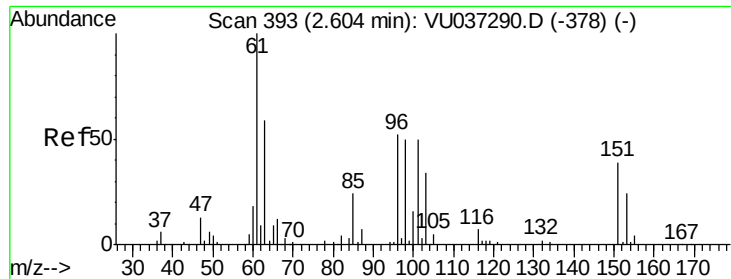
Tgt Ion: 64 Resp: 36834
Ion Ratio Lower Upper
64 100
66 31.0 21.7 40.3



#9
Trichlorofluoromethane
Concen: 5.23 ug/L
RT: 2.16 min Scan# 254
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

Tgt Ion: 101 Resp: 101586
Ion Ratio Lower Upper
101 100
103 66.1 52.9 79.3





#10

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

Concen: 4.84 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

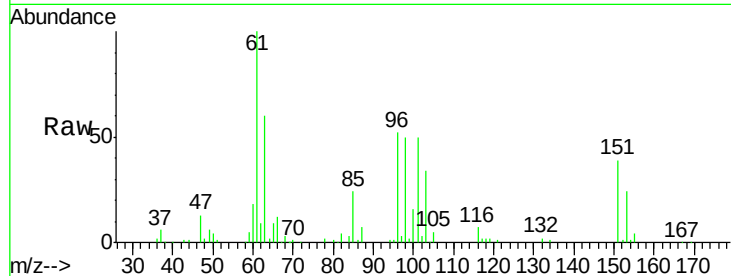
Tgt Ion: 101 Resp: 47231

Ion Ratio Lower Upper

101 100

85 48.9 39.1 58.7

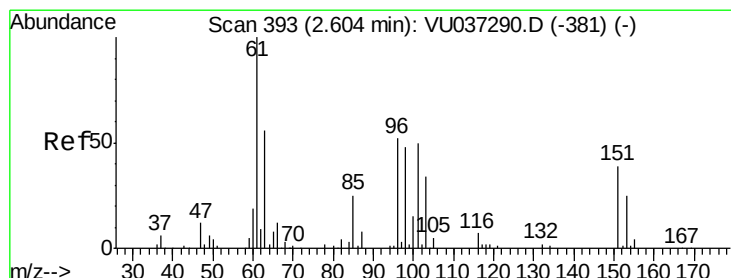
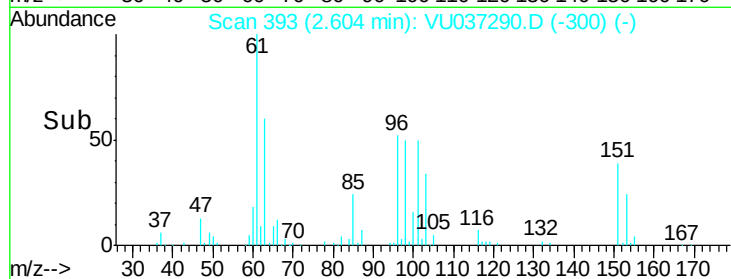
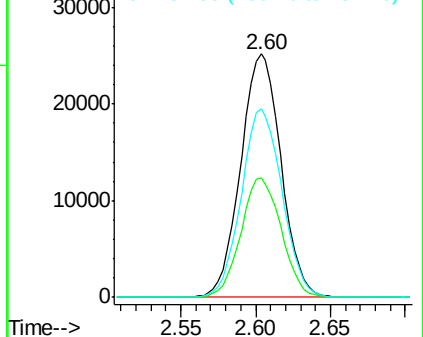
151 78.1 62.5 93.7



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: 4.88 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

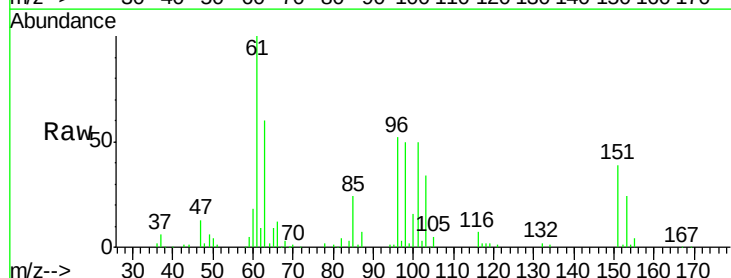
Tgt Ion: 96 Resp: 43314

Ion Ratio Lower Upper

96 100

61 191.9 134.3 249.5

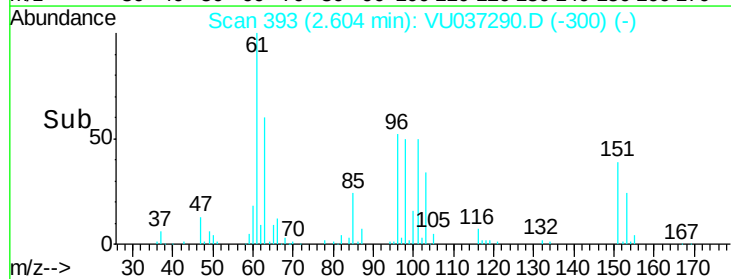
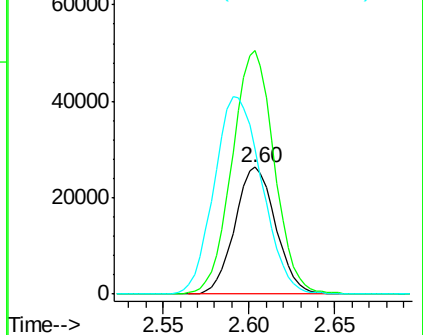
63 114.7 80.3 149.1

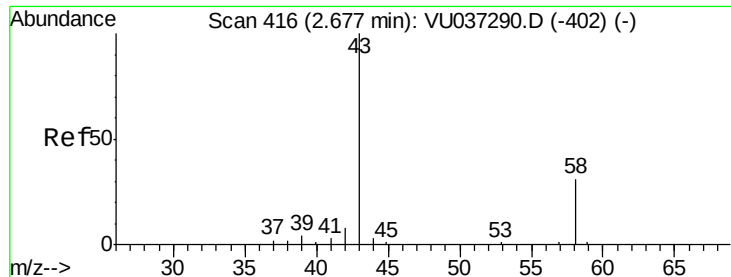


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 50.62 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

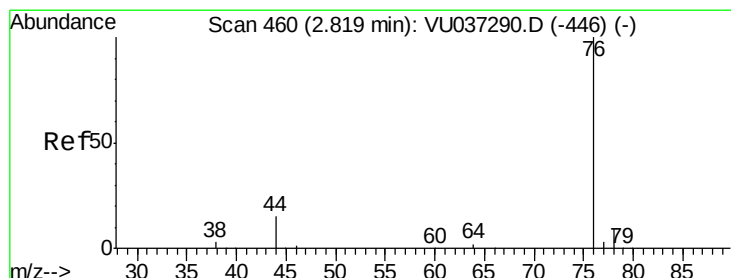
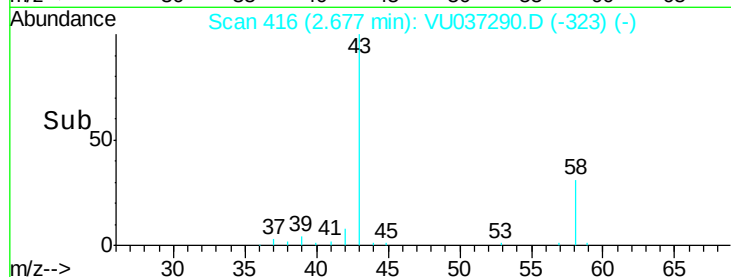
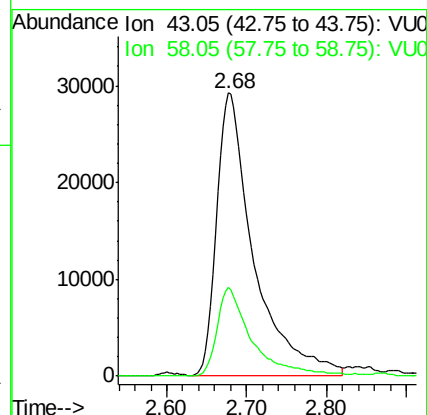
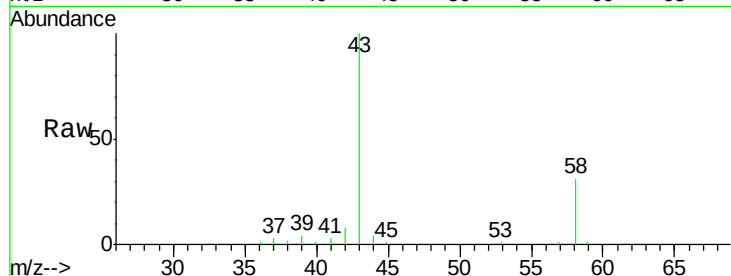
VSTD00502

Tgt Ion: 43 Resp: 93971

Ion Ratio Lower Upper

43 100

58 29.0 0.0 58.0



#14

Carbon disulfide

Concen: 4.67 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037290.D

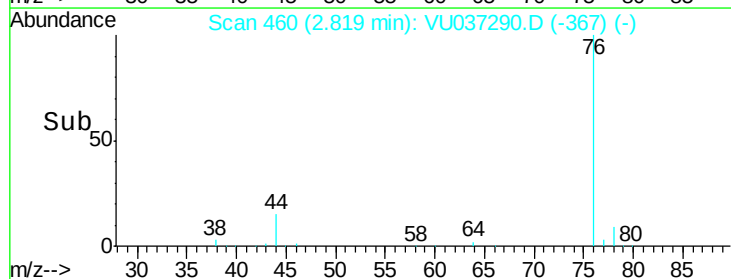
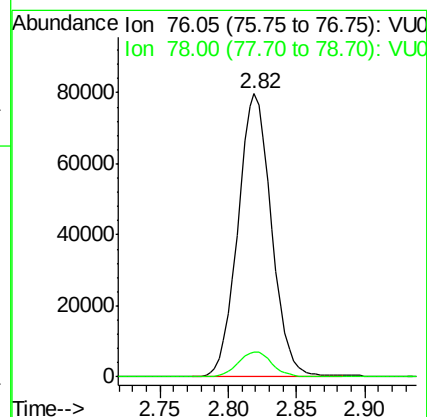
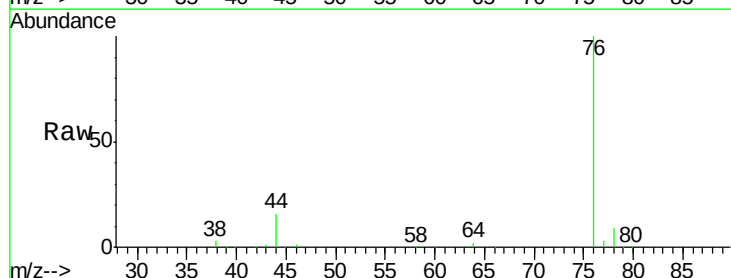
Acq: 16 Mar 2020 12:29

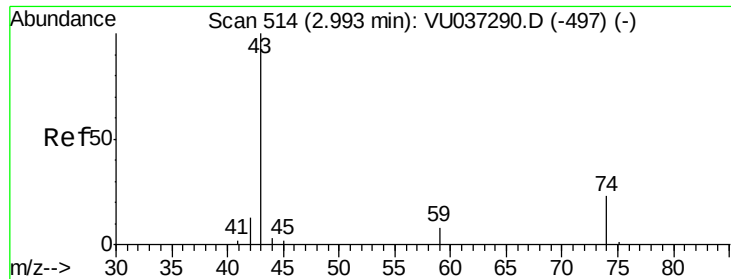
Tgt Ion: 76 Resp: 136377

Ion Ratio Lower Upper

76 100

78 8.9 7.1 10.7

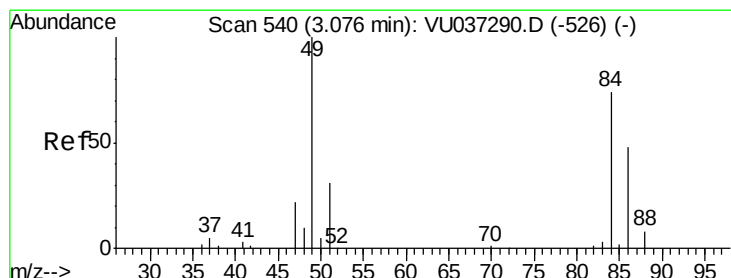
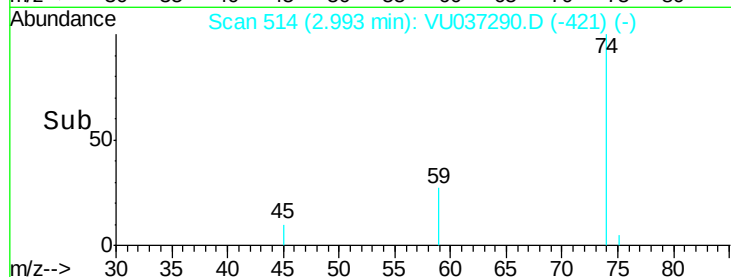
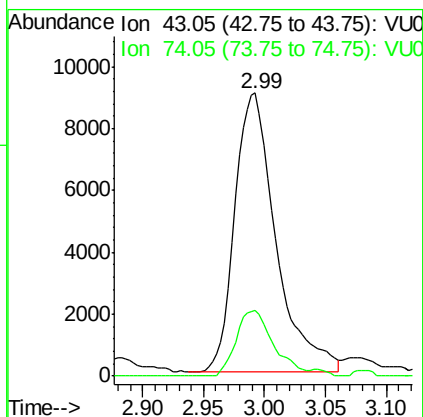
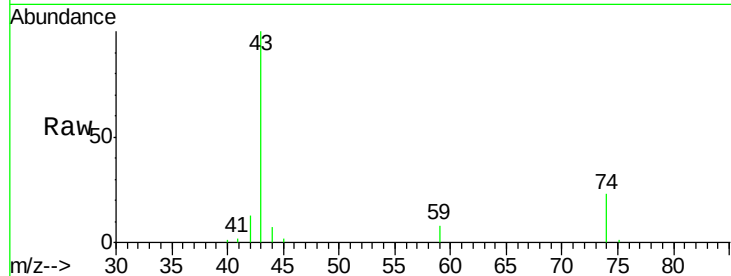




#15
Methyl Acetate
Concen: 4.80 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

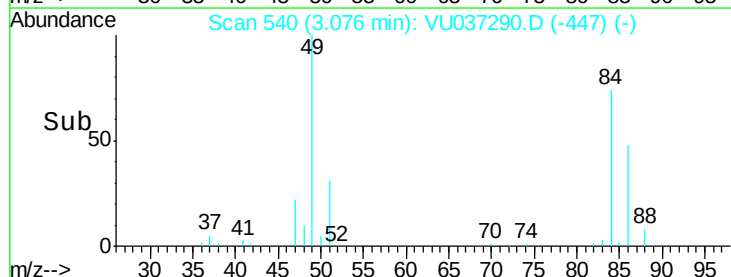
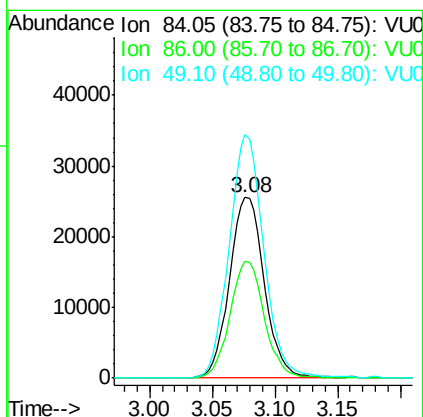
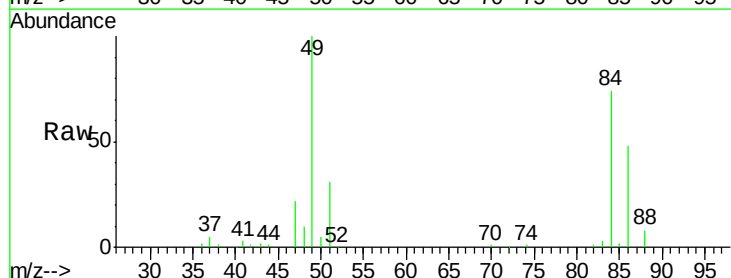
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

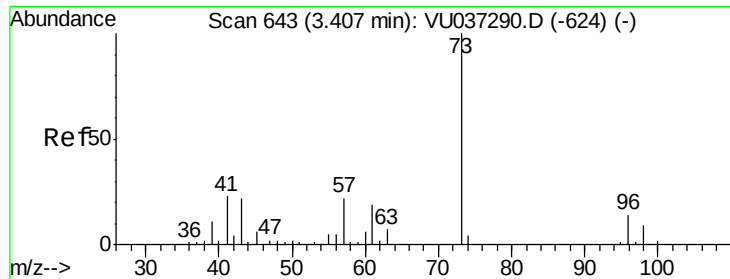
Tgt Ion: 43 Resp: 21174
Ion Ratio Lower Upper
43 100
74 21.2 17.0 25.4



#16
Methylene chloride
Concen: 4.66 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

Tgt Ion: 84 Resp: 49517
Ion Ratio Lower Upper
84 100
86 64.6 45.2 84.0
49 134.9 94.4 175.4

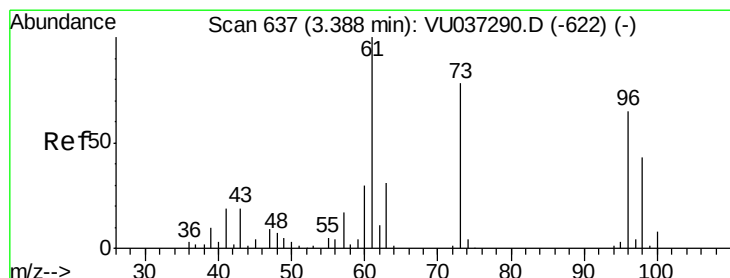
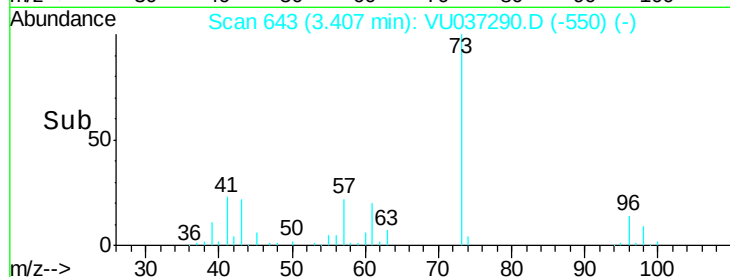
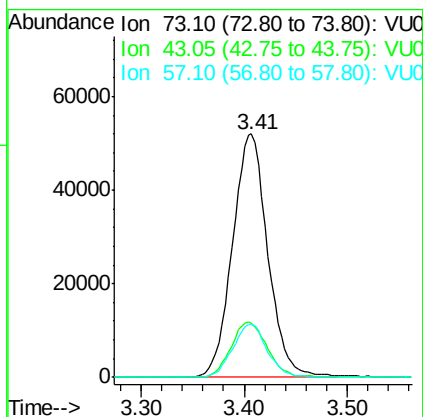
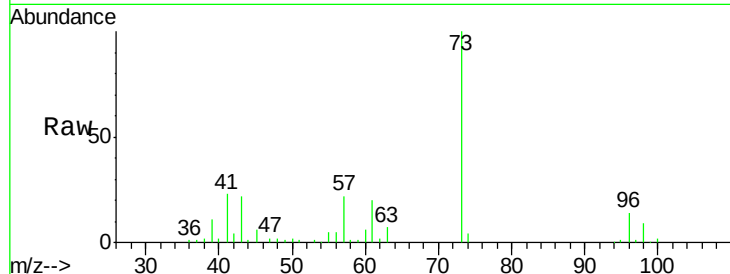




#17
Methyl tert-butyl Ether
Concen: 5.13 ug/L
RT: 3.41 min Scan# 643
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

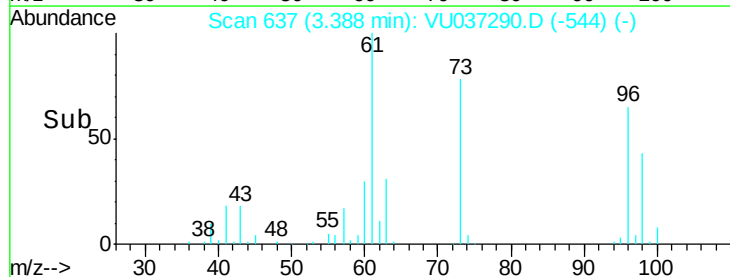
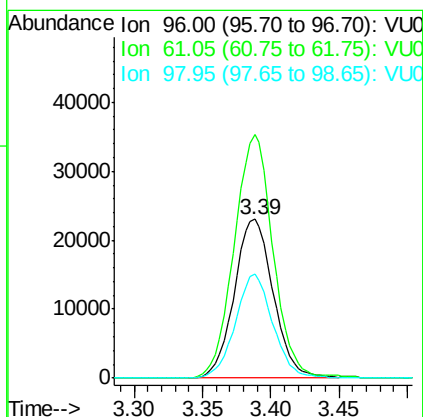
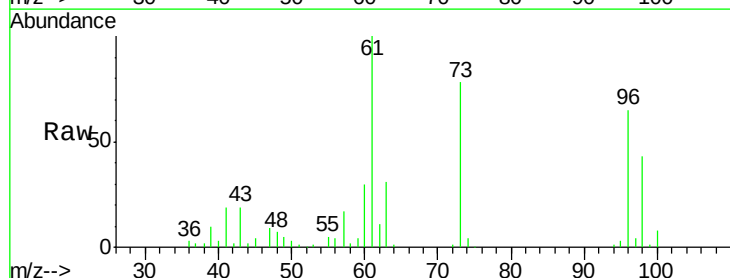
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

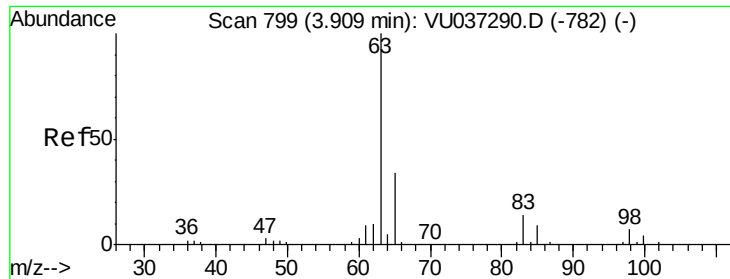
Tgt Ion: 73 Resp: 123830
Ion Ratio Lower Upper
73 100
43 23.3 18.6 28.0
57 21.4 17.1 25.7



#18
trans-1,2-Dichloroethene
Concen: 4.91 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

Tgt Ion: 96 Resp: 45711
Ion Ratio Lower Upper
96 100
61 153.6 107.5 199.7
98 65.6 45.9 85.3

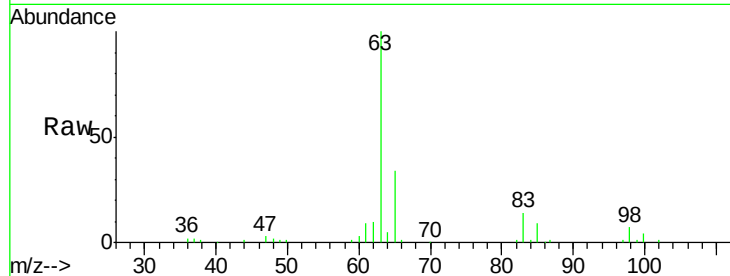




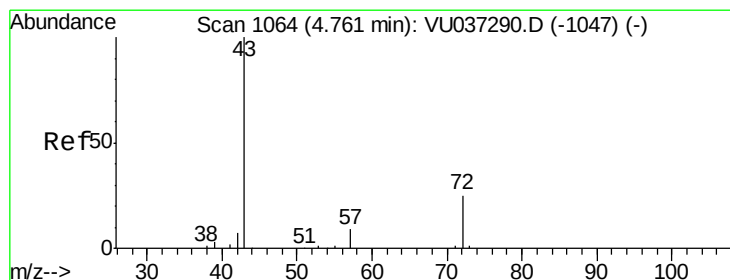
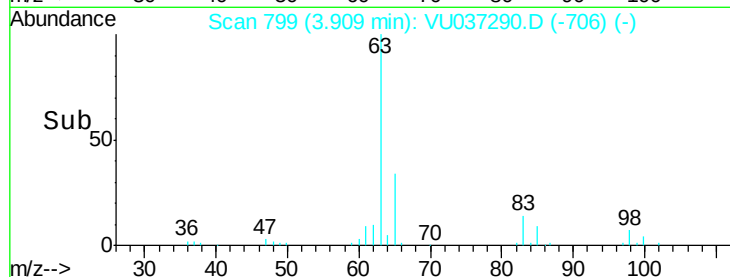
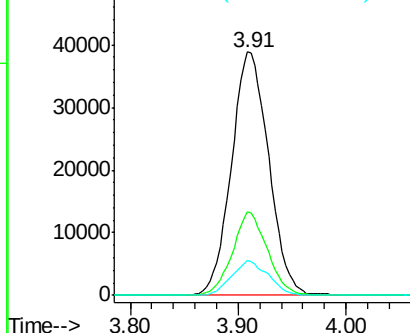
#19
 1,1-Dichloroethane
 Concen: 4.92 ug/L
 RT: 3.91 min Scan# 799
 Delta R.T. 0.00 min
 Lab File: VU037290.D
 Acq: 16 Mar 2020 12:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion: 63 Resp: 93456
 Ion Ratio Lower Upper
 63 100
 65 34.4 24.1 44.7
 83 14.5 10.1 18.9

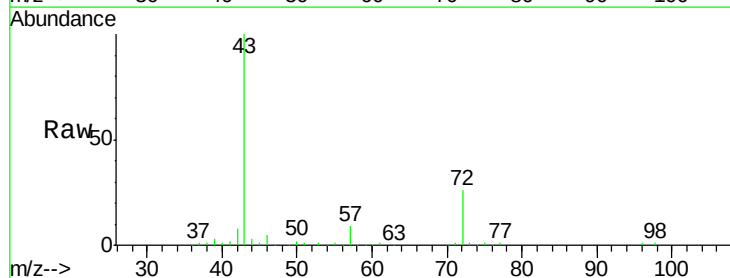


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

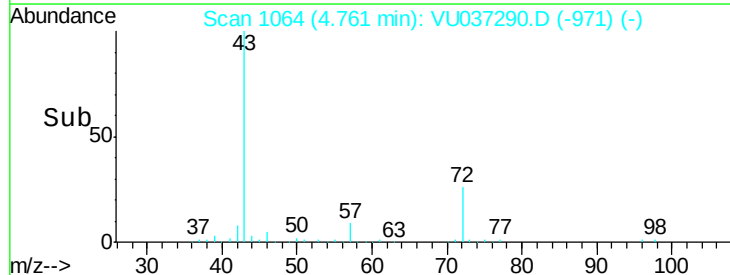
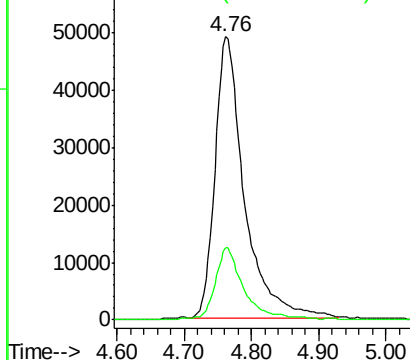


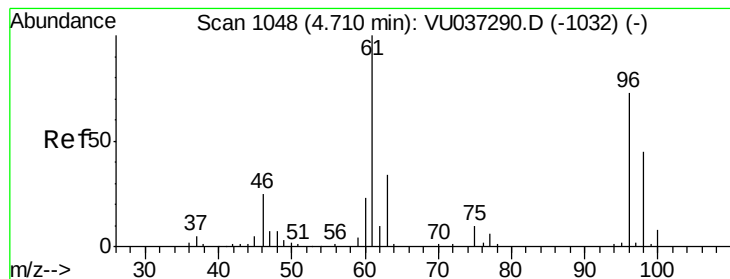
#21
 2-Butanone
 Concen: 50.57 ug/L
 RT: 4.76 min Scan# 1064
 Delta R.T. 0.00 min
 Lab File: VU037290.D
 Acq: 16 Mar 2020 12:29

Tgt Ion: 43 Resp: 148645
 Ion Ratio Lower Upper
 43 100
 72 25.0 12.5 37.5



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.89 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

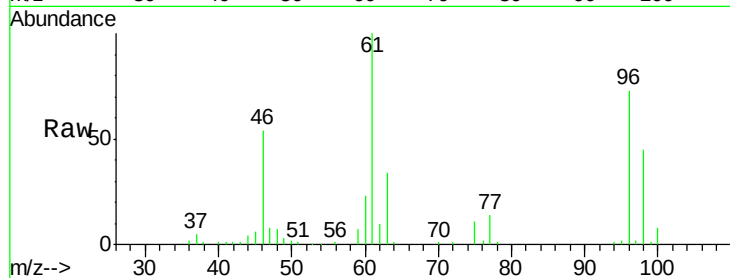
Tgt Ion: 96 Resp: 50548

Ion Ratio Lower Upper

96 100

61 136.9 95.8 178.0

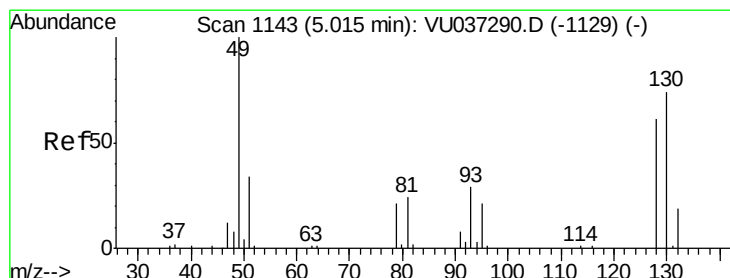
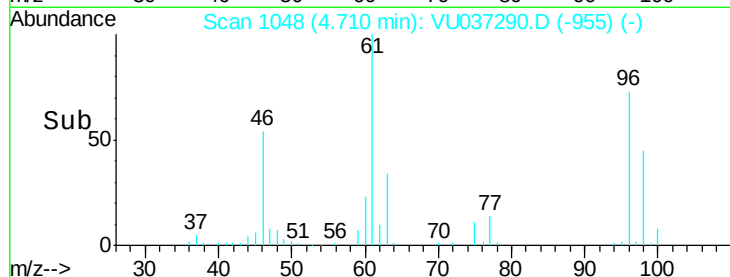
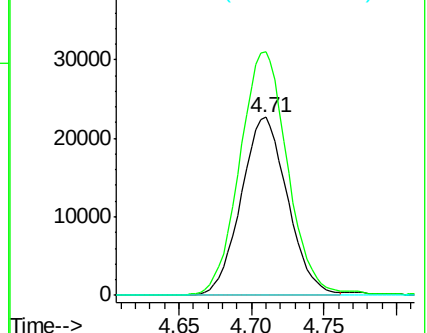
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037290.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU037290.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU037290.D (-1032) (-)



#23

Bromochloromethane

Concen: 5.21 ug/L

RT: 5.01 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Tgt Ion: 128 Resp: 23832

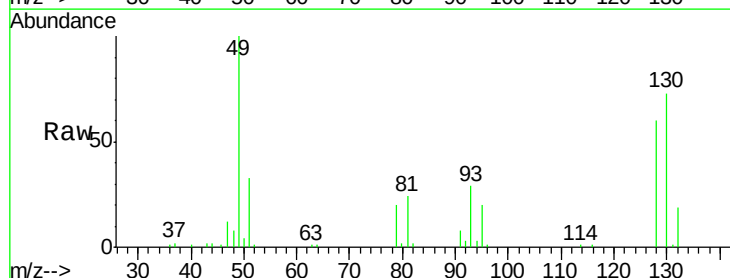
Ion Ratio Lower Upper

128 100

49 166.7 116.7 216.7

130 121.9 85.3 158.5

51 55.7 44.6 66.8

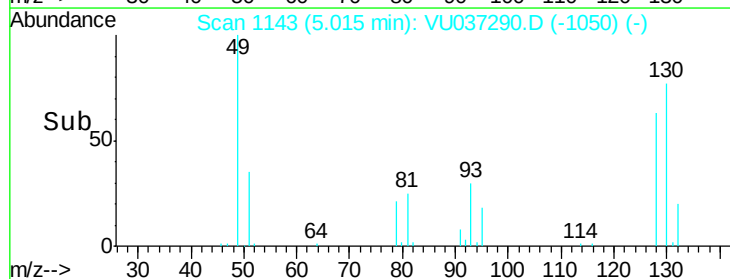
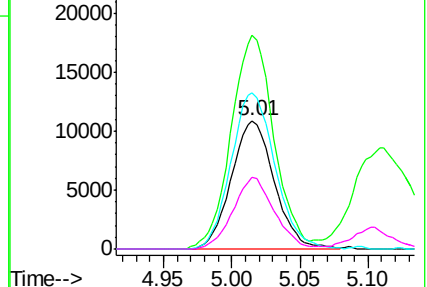


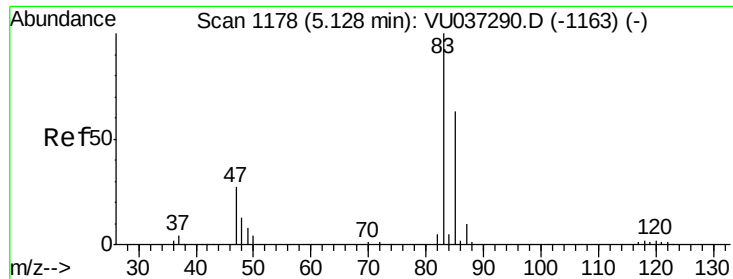
Abundance Ion 127.90 (127.60 to 128.60): VU037290.D (-1129) (-)

Ion 49.10 (48.80 to 49.80): VU037290.D (-1129) (-)

Ion 129.95 (129.65 to 130.65): VU037290.D (-1129) (-)

Ion 51.05 (50.75 to 51.75): VU037290.D (-1129) (-)

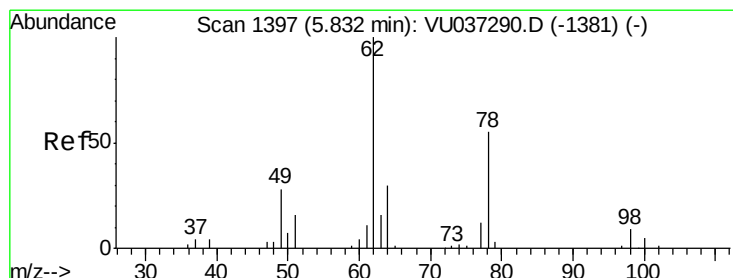
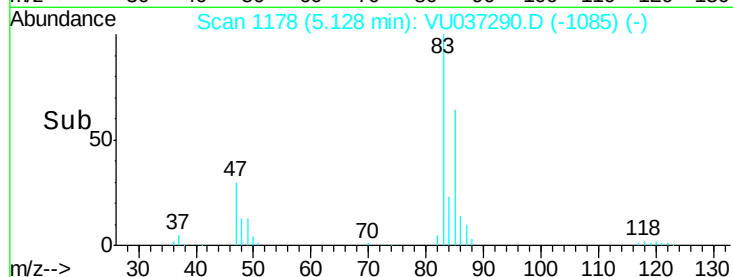
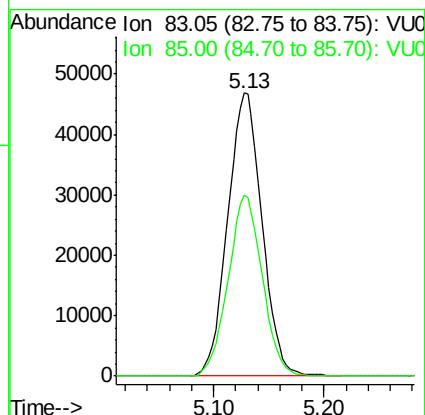
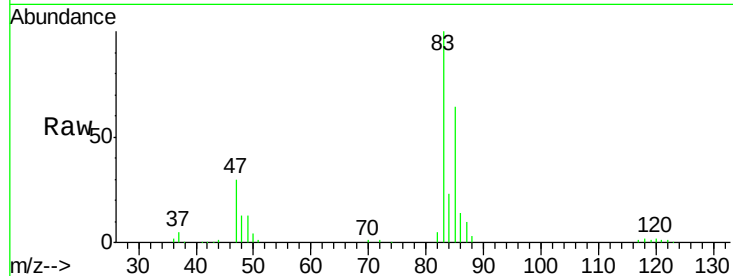




#25
Chloroform
Concen: 4.87 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

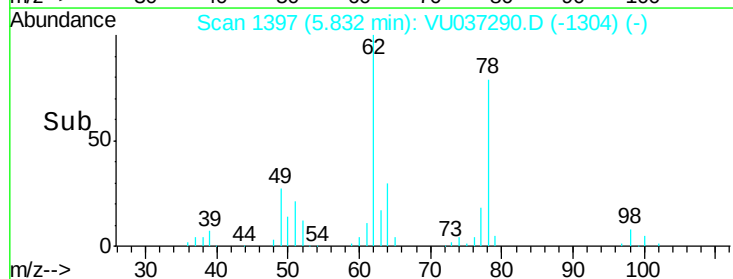
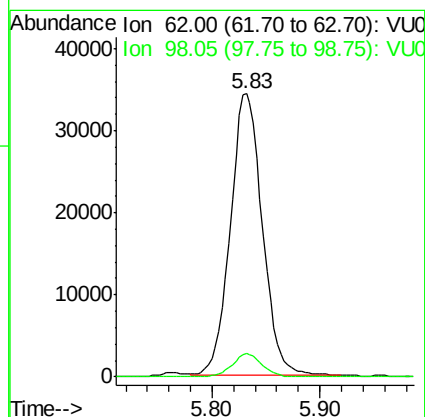
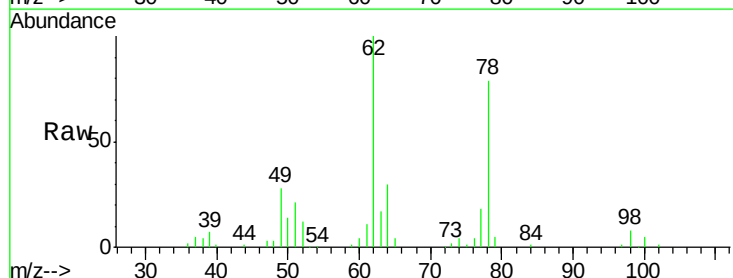
Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

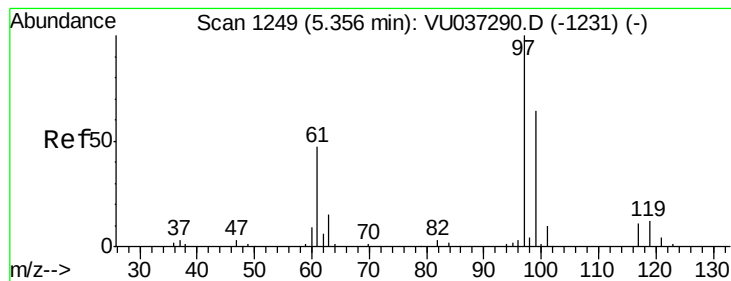
Tgt Ion: 83 Resp: 101016
Ion Ratio Lower Upper
83 100
85 63.8 44.7 82.9



#27
1,2-Dichloroethane
Concen: 4.88 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

Tgt Ion: 62 Resp: 71082
Ion Ratio Lower Upper
62 100
98 8.5 6.8 10.2





#29

1,1,1-Trichloroethane

Concen: 5.33 ug/L

RT: 5.36 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

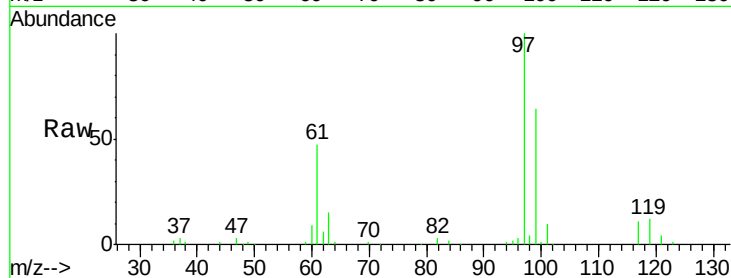
Tgt Ion: 97 Resp: 91654

Ion Ratio Lower Upper

97 100

99 63.3 50.6 76.0

61 46.0 36.8 55.2

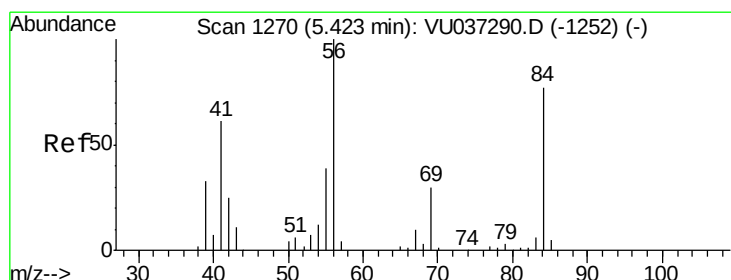
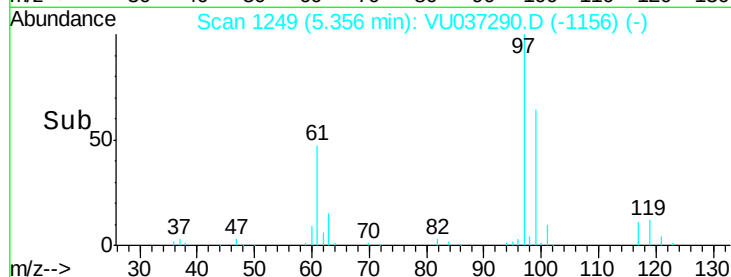
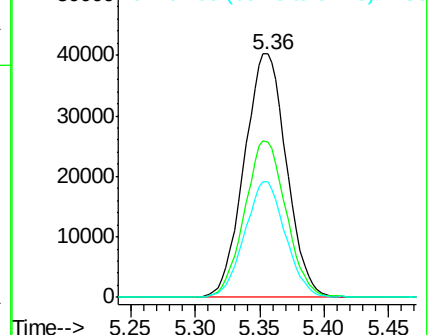


Abundance

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: 4.94 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

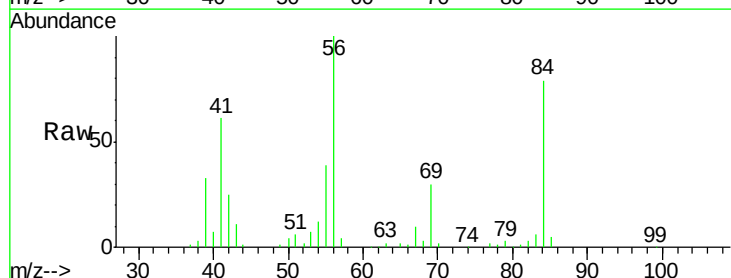
Tgt Ion: 56 Resp: 80315

Ion Ratio Lower Upper

56 100

69 30.4 24.3 36.5

84 83.3 66.6 100.0

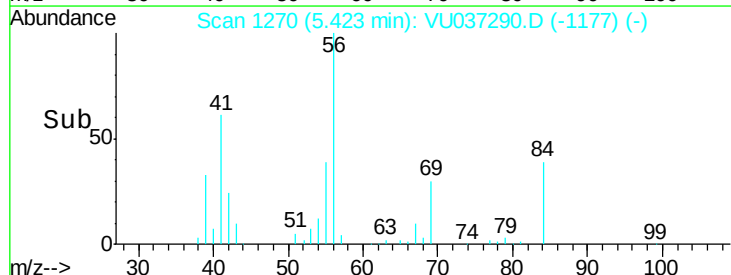
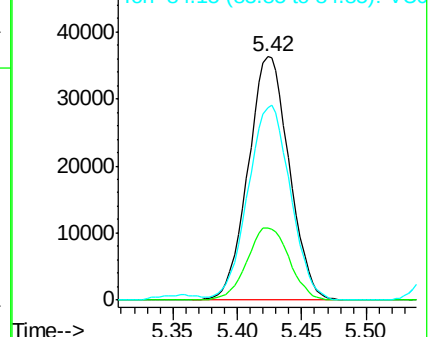


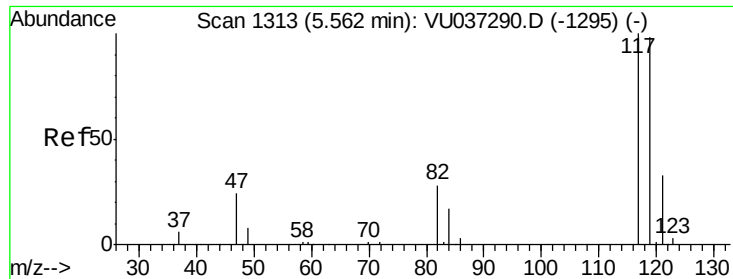
Abundance

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: 5.34 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

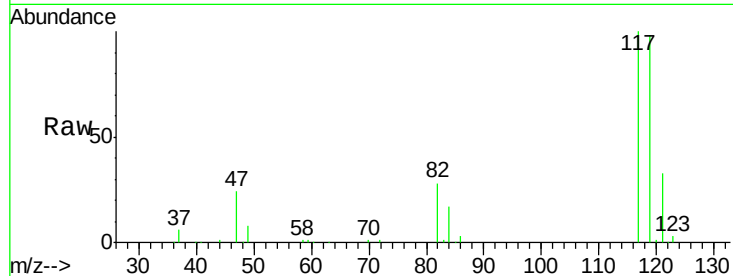
VSTD00502

Tgt Ion:117 Resp: 79644

Ion Ratio Lower Upper

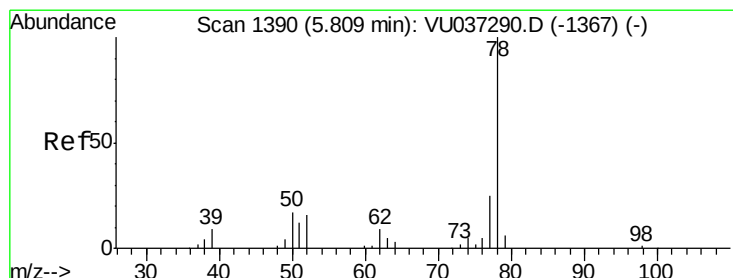
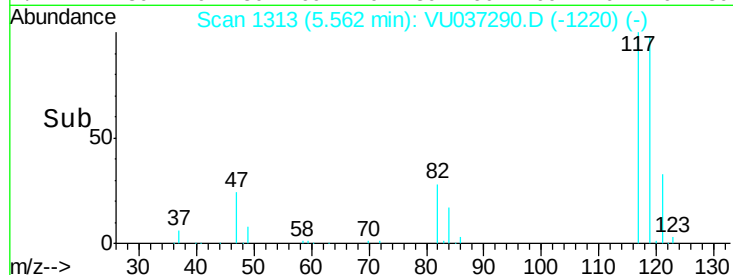
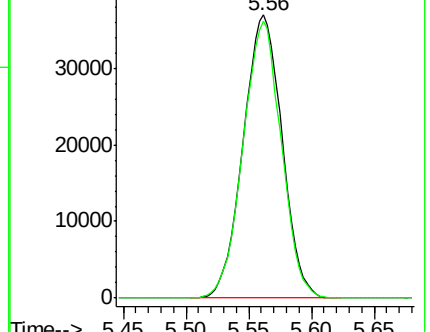
117 100

119 96.3 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: 5.12 ug/L

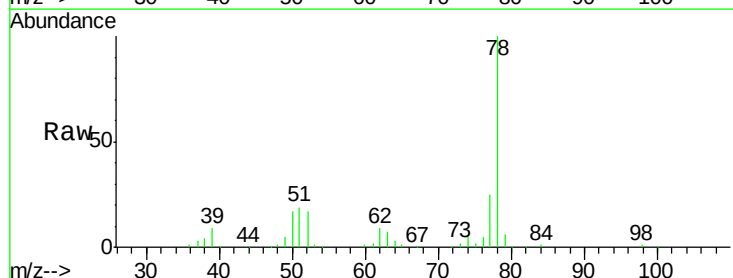
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

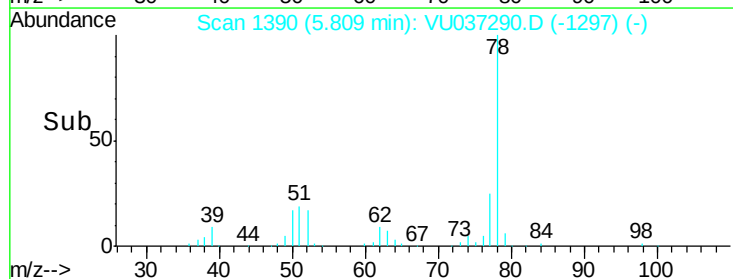
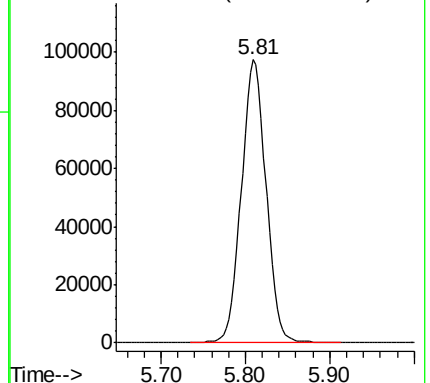
Lab File: VU037290.D

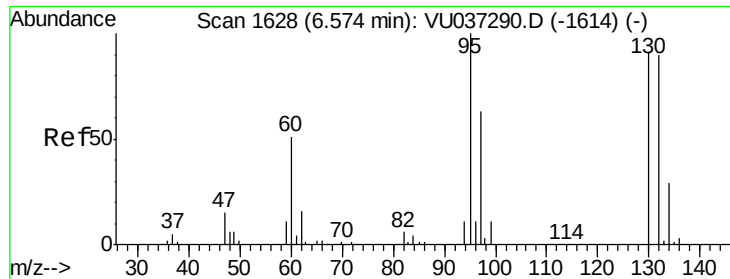
Acq: 16 Mar 2020 12:29

Tgt Ion: 78 Resp: 199712



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.14 ug/L

RT: 6.57 min Scan# 1628

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

Tgt Ion: 95 Resp: 54391

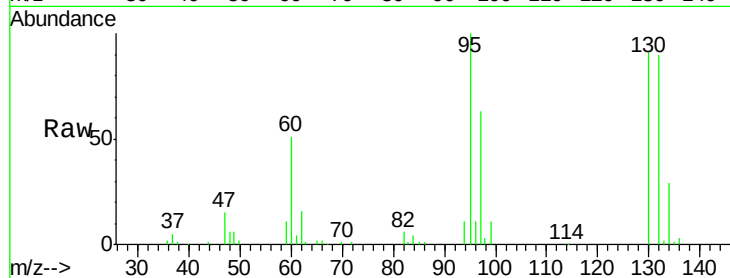
Ion Ratio Lower Upper

95 100

97 63.3 44.3 82.3

132 90.3 63.2 117.4

130 91.5 64.0 119.0

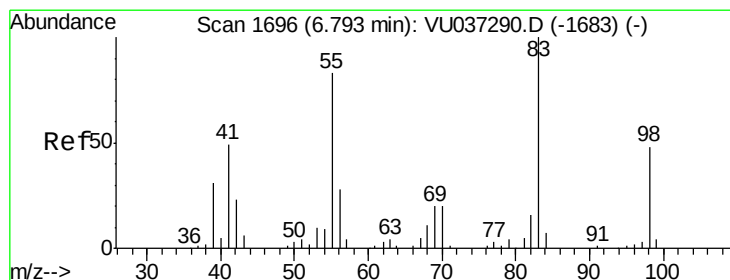
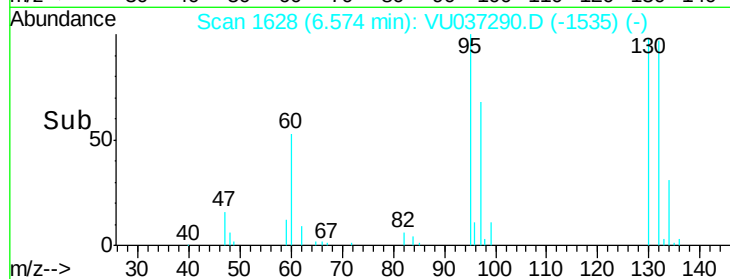
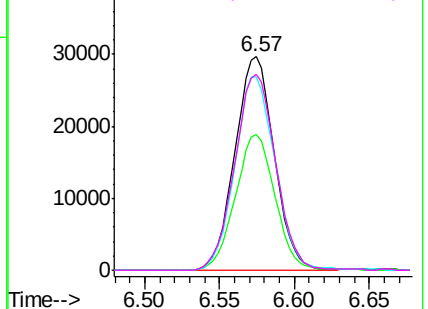


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 5.08 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

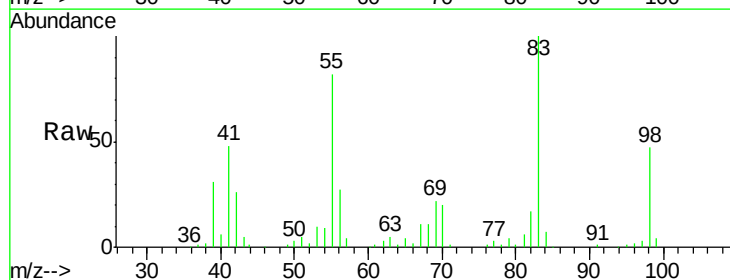
Tgt Ion: 83 Resp: 82564

Ion Ratio Lower Upper

83 100

55 83.8 67.0 100.6

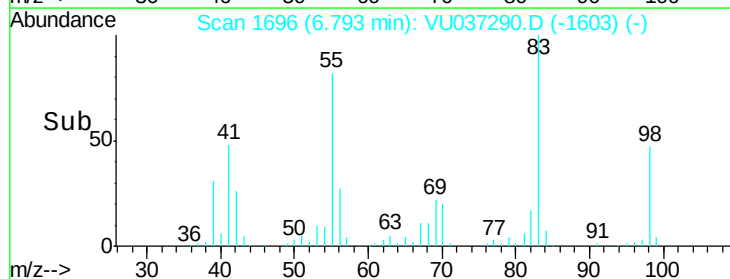
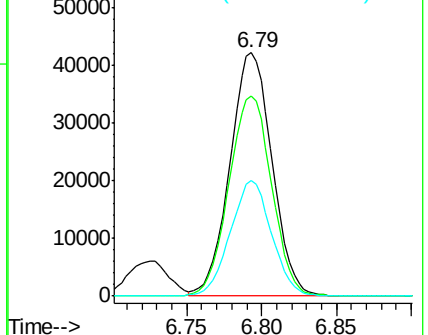
98 46.7 37.4 56.0

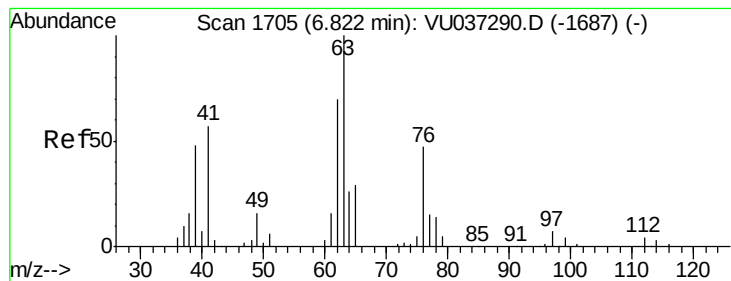


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.18 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

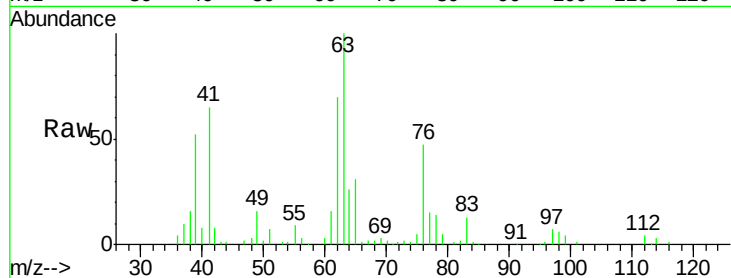
VSTD00502

Tgt Ion: 63 Resp: 53199

Ion Ratio Lower Upper

63 100

112 3.9 3.1 4.7



Abundance Ion 63.10 (62.80 to 63.80): VU037290.D (-1687) (-)

Ion 112.10 (111.80 to 112.80): VU037290.D (-1687) (-)

6.82

30000

25000

20000

15000

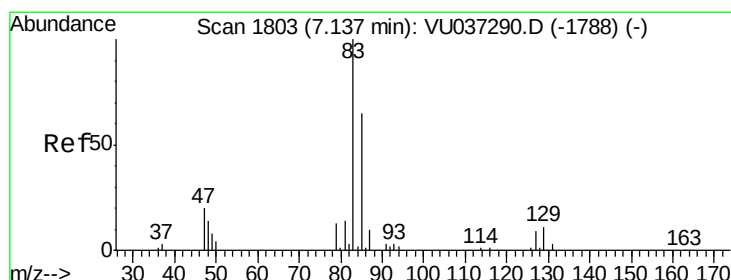
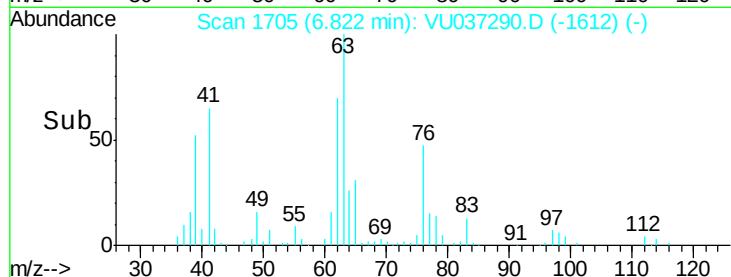
10000

5000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 5.33 ug/L

RT: 7.14 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

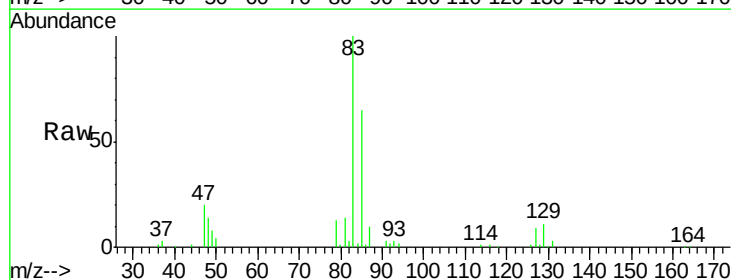
Tgt Ion: 83 Resp: 73619

Ion Ratio Lower Upper

83 100

85 65.4 45.8 85.0

127 8.8 7.0 10.6



Abundance Ion 82.95 (82.65 to 83.65): VU037290.D (-1788) (-)

Ion 85.00 (84.70 to 85.70): VU037290.D (-1788) (-)

Ion 126.90 (126.60 to 127.60): VU037290.D (-1788) (-)

7.14

50000

40000

30000

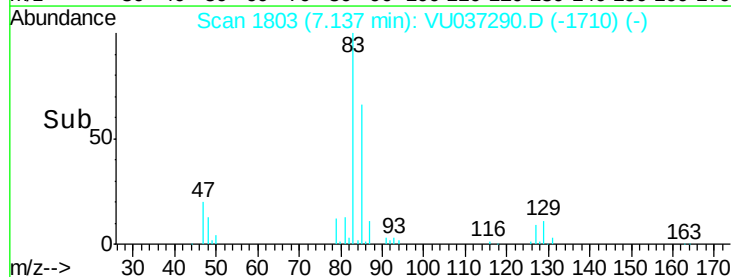
20000

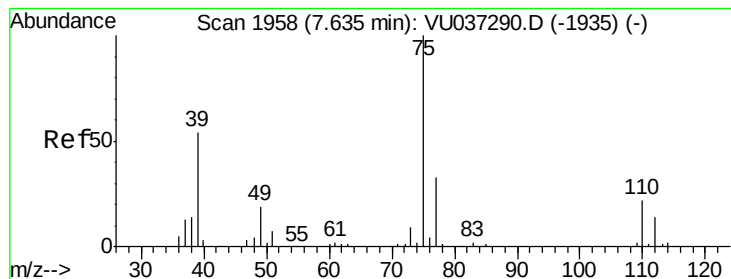
10000

0

7.05 7.10 7.15 7.20

Time-->





#39

cis-1,3-Dichloropropene

Concen: 5.35 ug/L

RT: 7.64 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

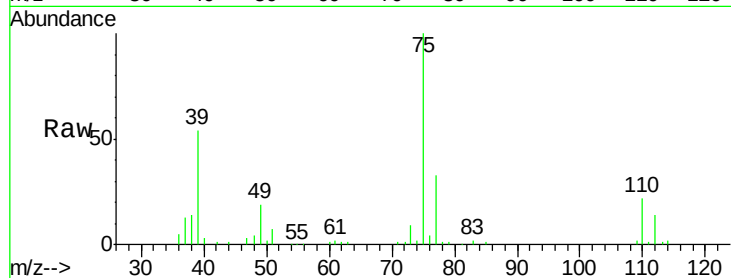
VSTD00502

Tgt Ion: 75 Resp: 79694

Ion Ratio Lower Upper

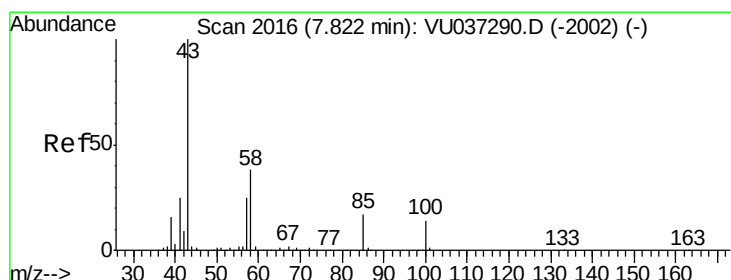
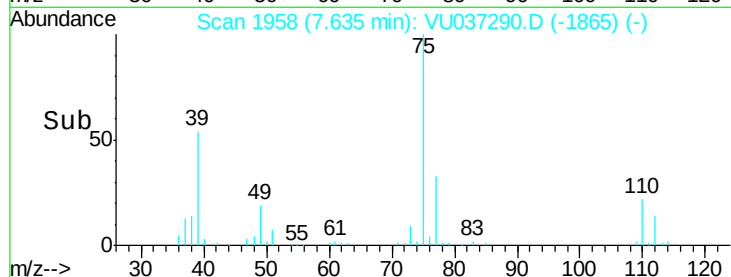
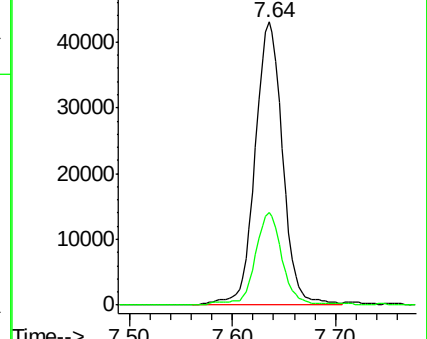
75 100

77 32.9 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VU037290.D (-1935) (-)

Ion 77.05 (76.75 to 77.75): VU037290.D (-1935) (-)



#40

4-Methyl-2-pentanone

Concen: 50.94 ug/L

RT: 7.82 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

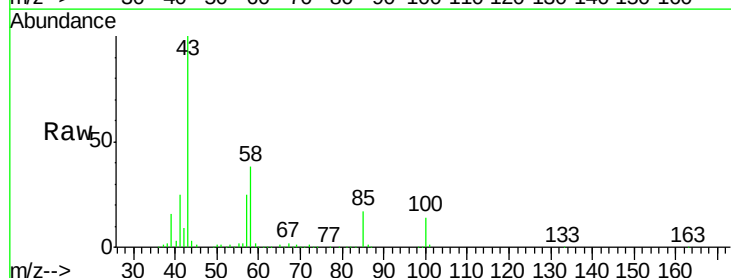
Tgt Ion: 43 Resp: 370048

Ion Ratio Lower Upper

43 100

58 37.3 29.8 44.8

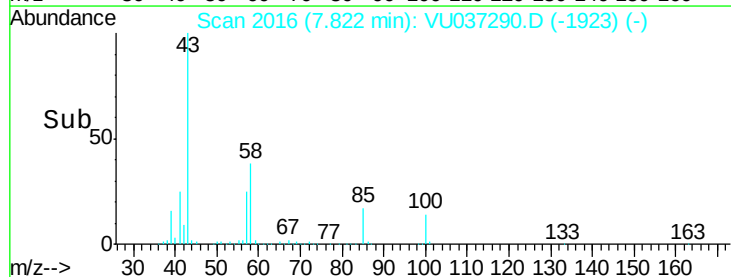
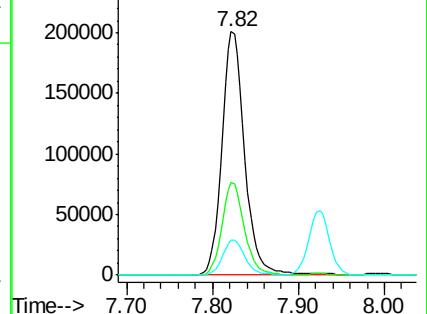
100 14.1 11.3 16.9

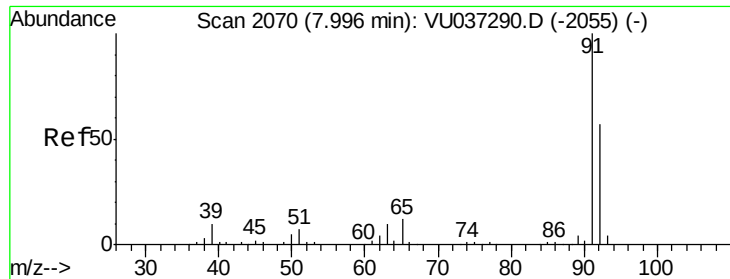


Abundance Ion 43.05 (42.75 to 43.75): VU037290.D (-2002) (-)

Ion 58.05 (57.75 to 58.75): VU037290.D (-2002) (-)

Ion 100.15 (99.85 to 100.85): VU037290.D (-2002) (-)





#42

Toluene

Concen: 5.26 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

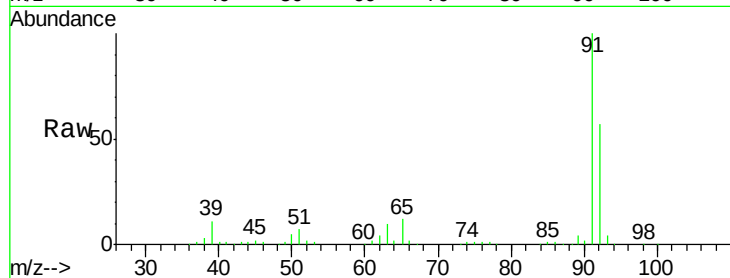
VSTD00502

Tgt Ion: 91 Resp: 220417

Ion Ratio Lower Upper

91 100

92 56.8 39.8 73.8



Abundance Ion 91.15 (90.85 to 91.85): VU037290.D (-2055) (-)

Ion 92.15 (91.85 to 92.85): VU037290.D (-2055) (-)

8.00

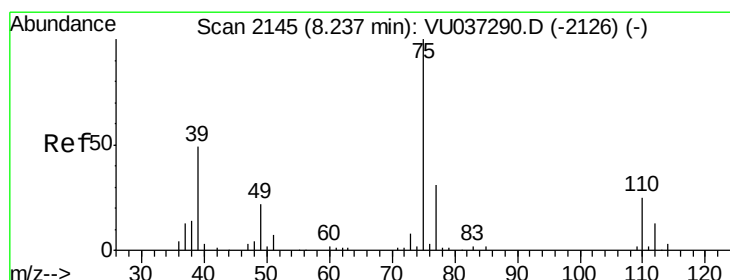
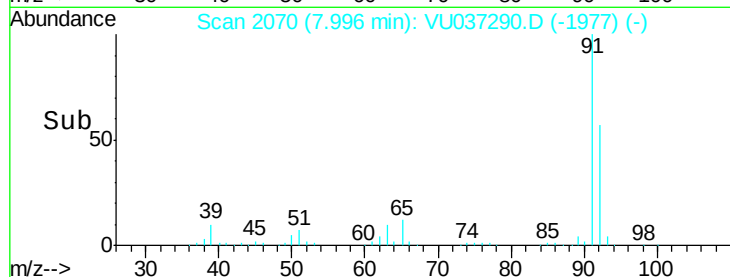
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#44

trans-1,3-Dichloropropene

Concen: 5.39 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. 0.00 min

Lab File: VU037290.D

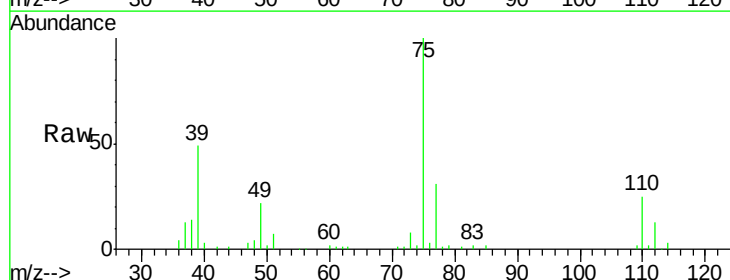
Acq: 16 Mar 2020 12:29

Tgt Ion: 75 Resp: 67058

Ion Ratio Lower Upper

75 100

77 31.3 21.9 40.7



Abundance Ion 75.05 (74.75 to 75.75): VU037290.D (-2126) (-)

Ion 77.05 (76.75 to 77.75): VU037290.D (-2126) (-)

8.24

40000

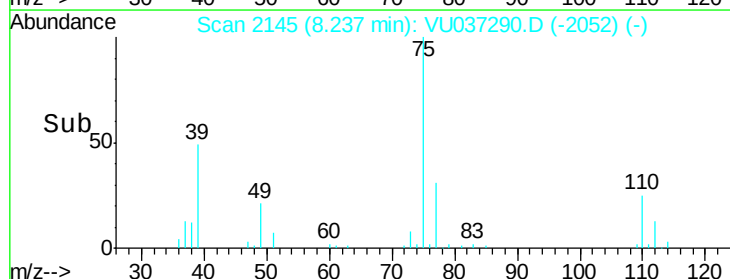
30000

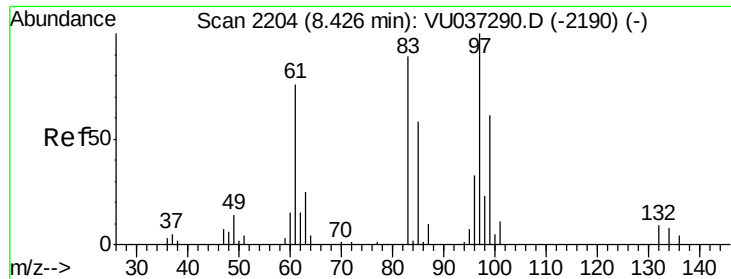
20000

10000

0

Time--> 8.15 8.20 8.25 8.30 8.35

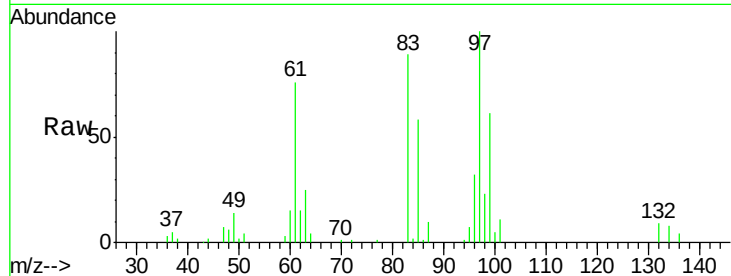




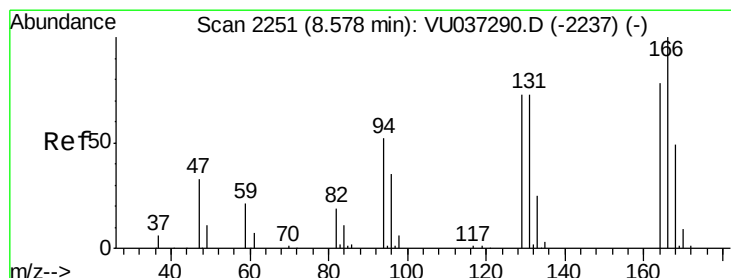
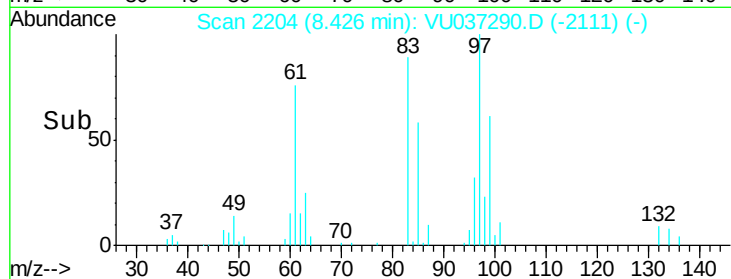
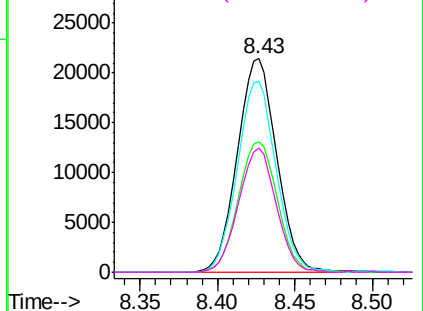
#45
 1,1,2-Trichloroethane
 Concen: 5.13 ug/L
 RT: 8.43 min Scan# 2204
 Delta R.T. 0.00 min
 Lab File: VU037290.D
 Acq: 16 Mar 2020 12:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion:	97	Resp:	38056
Ion	Ratio	Lower	Upper
97	100		
99	61.2	42.8	79.6
83	89.1	62.4	115.8
85	58.2	40.7	75.7

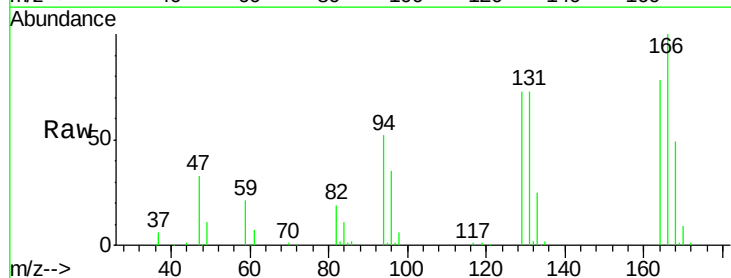


Abundance Ion 96.95 (96.65 to 97.65): VU037290.D (-2190) (-)
 Ion 99.05 (98.75 to 99.75): VU037290.D (-2190) (-)
 Ion 82.95 (82.65 to 83.65): VU037290.D (-2190) (-)
 Ion 85.00 (84.70 to 85.70): VU037290.D (-2190) (-)

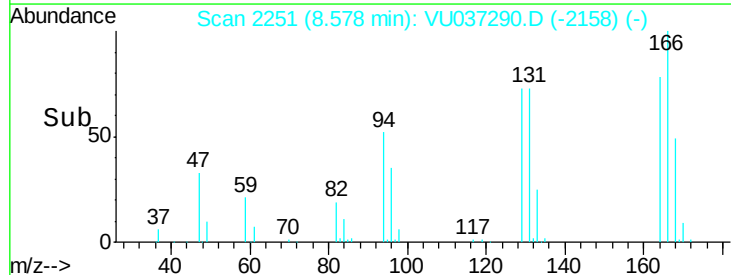
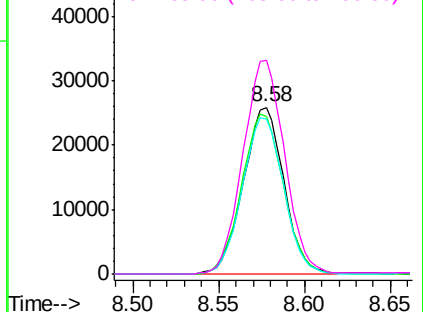


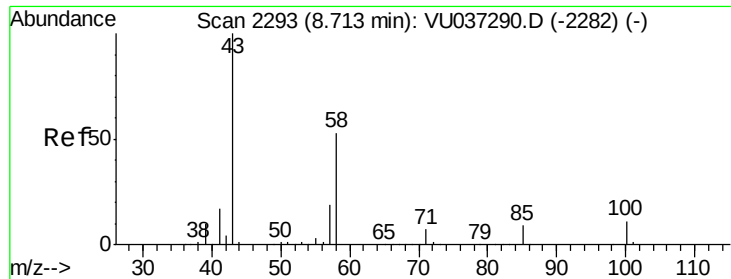
#47
 Tetrachloroethene
 Concen: 5.13 ug/L
 RT: 8.58 min Scan# 2251
 Delta R.T. 0.00 min
 Lab File: VU037290.D
 Acq: 16 Mar 2020 12:29

Tgt Ion:	164	Resp:	42307
Ion	Ratio	Lower	Upper
164	100		
129	94.0	65.8	122.2
131	93.0	65.1	120.9
166	128.1	89.7	166.5



Abundance Ion 163.90 (163.60 to 164.60): VU037290.D (-2237) (-)
 Ion 128.95 (128.65 to 129.65): VU037290.D (-2237) (-)
 Ion 130.95 (130.65 to 131.65): VU037290.D (-2237) (-)
 Ion 165.90 (165.60 to 166.60): VU037290.D (-2237) (-)

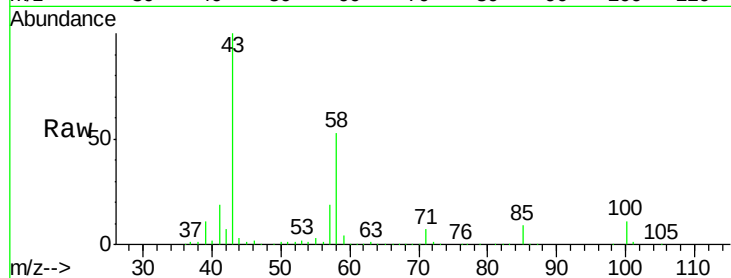




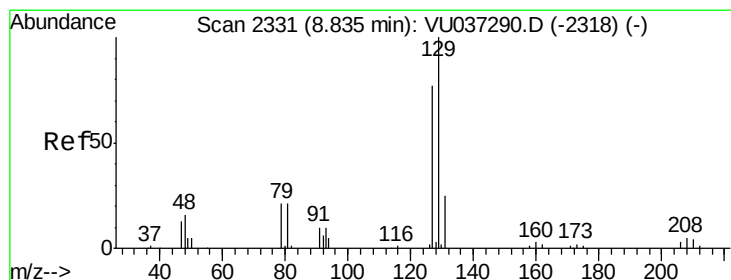
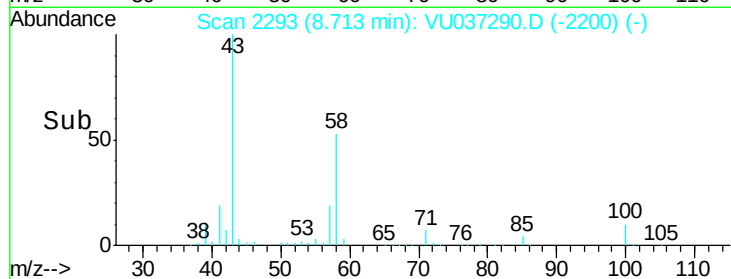
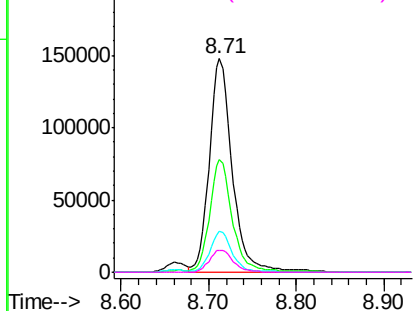
#48
2-Hexanone
Concen: 53.50 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion: 43 Resp: 269132
Ion Ratio Lower Upper
43 100
58 52.4 41.9 62.9
57 18.4 14.7 22.1
100 10.8 8.6 13.0

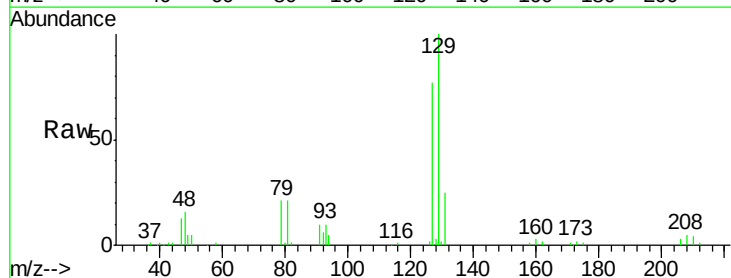


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

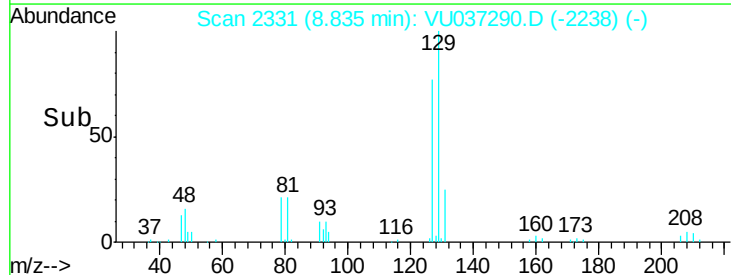
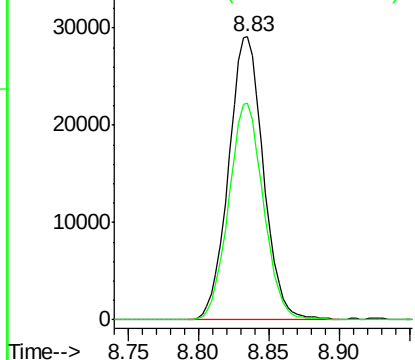


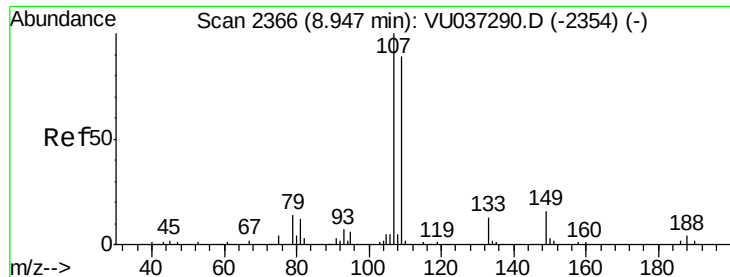
#49
Dibromochloromethane
Concen: 5.52 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

Tgt Ion: 129 Resp: 50093
Ion Ratio Lower Upper
129 100
127 76.6 53.6 99.6



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

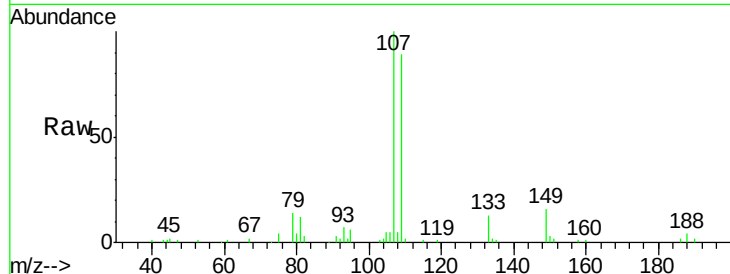




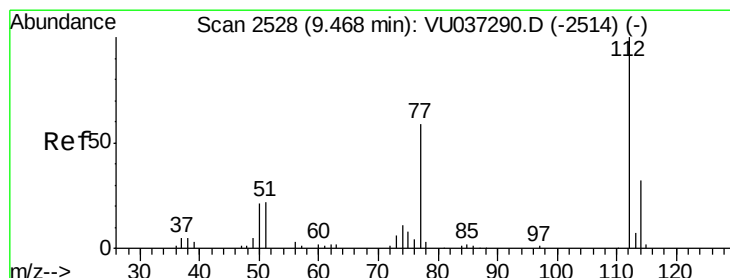
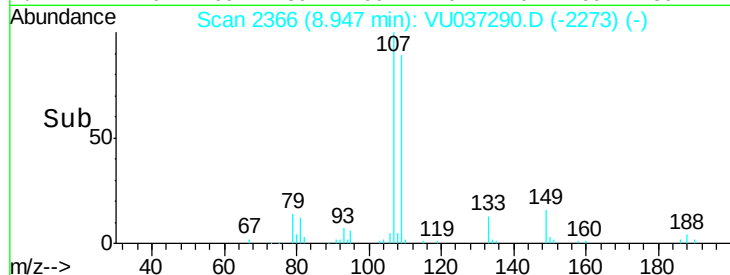
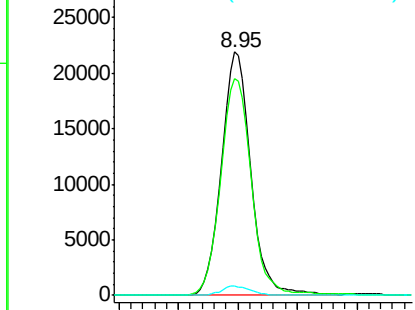
#50
1,2-Dibromoethane
Concen: 5.31 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

Instrument :
MSVOA_U
ClientSampleId :
VSTD00502

Tgt Ion:107 Resp: 37451
Ion Ratio Lower Upper
107 100
109 89.0 62.3 115.7
188 3.8 3.0 4.6

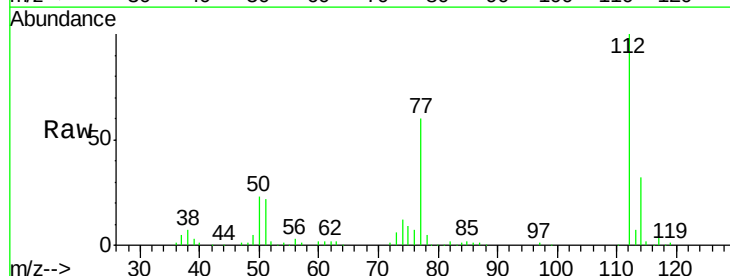


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

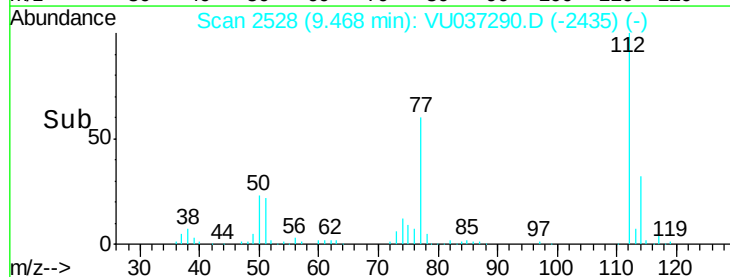
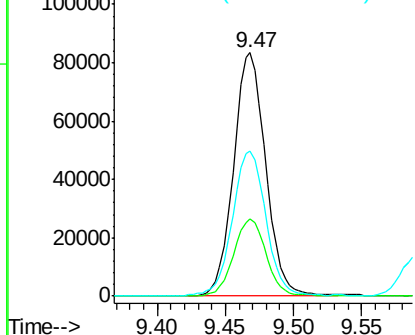


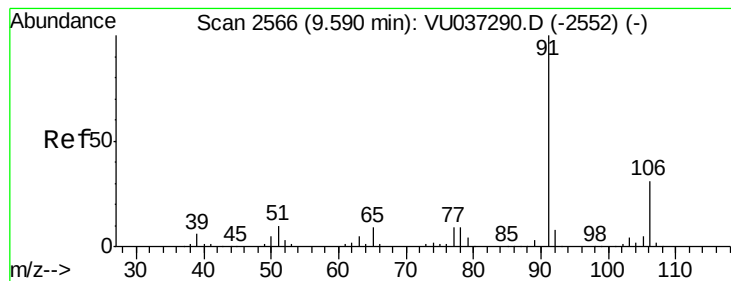
#51
Chlorobenzene
Concen: 5.04 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. 0.00 min
Lab File: VU037290.D
Acq: 16 Mar 2020 12:29

Tgt Ion:112 Resp: 136792
Ion Ratio Lower Upper
112 100
114 31.6 22.1 41.1
77 59.7 47.8 71.6



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





#52

Ethylbenzene

Concen: 5.28 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

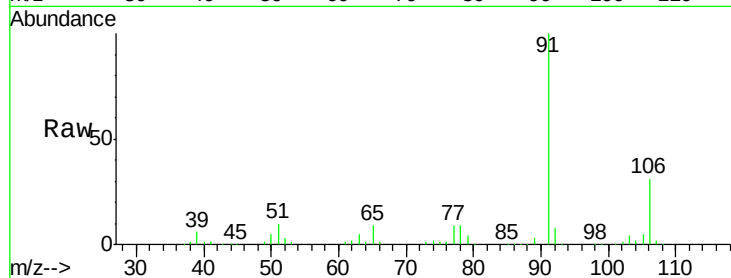
VSTD00502

Tgt Ion: 91 Resp: 245272

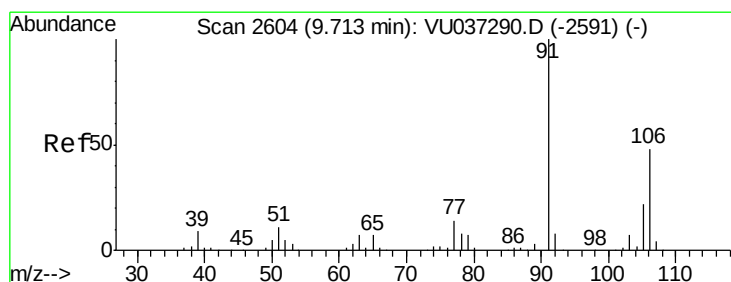
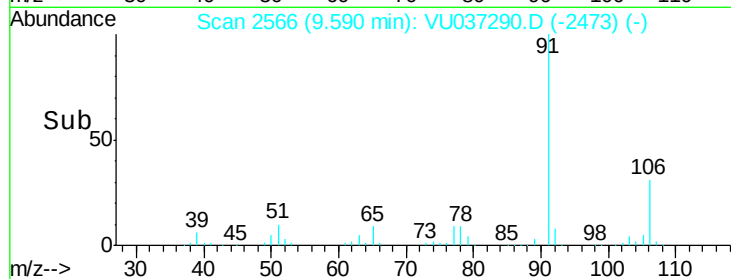
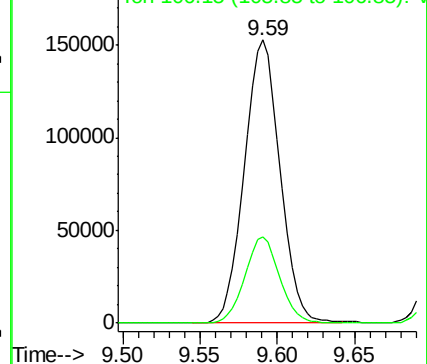
Ion Ratio Lower Upper

91 100

106 30.7 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VU037290.D (-2552) (-)



#53

m,p-Xylene

Concen: 5.42 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037290.D

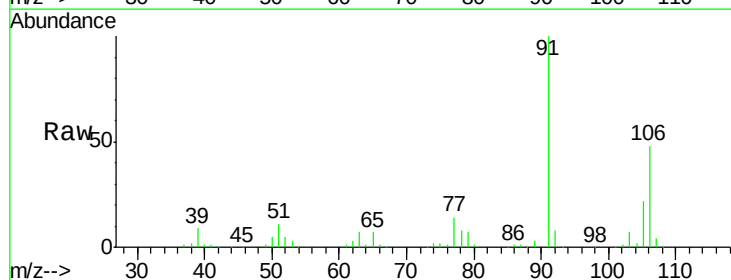
Acq: 16 Mar 2020 12:29

Tgt Ion: 106 Resp: 90560

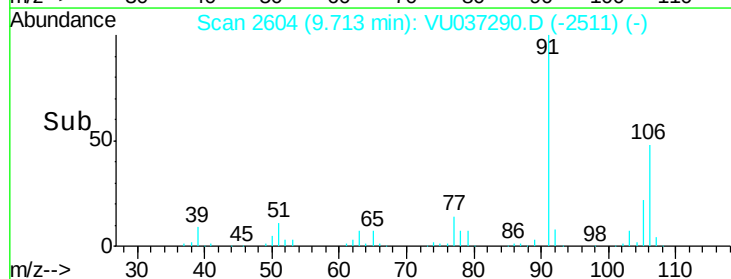
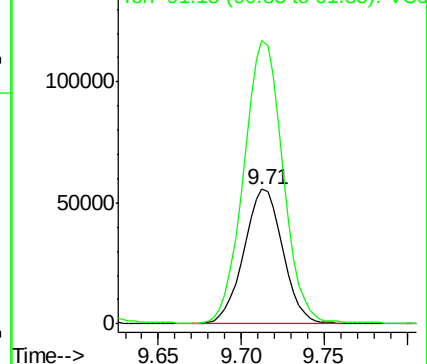
Ion Ratio Lower Upper

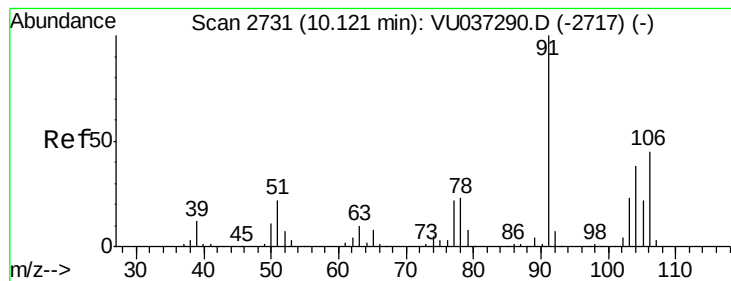
106 100

91 210.3 147.2 273.4



Abundance Ion 106.15 (105.85 to 106.85): VU037290.D (-2591) (-)





#54

o-Xylene

Concen: 5.44 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

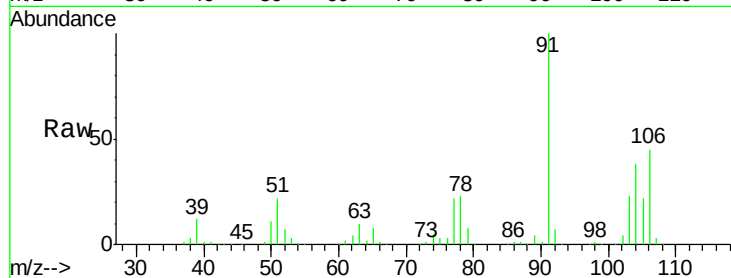
VSTD00502

Tgt Ion:106 Resp: 89382

Ion Ratio Lower Upper

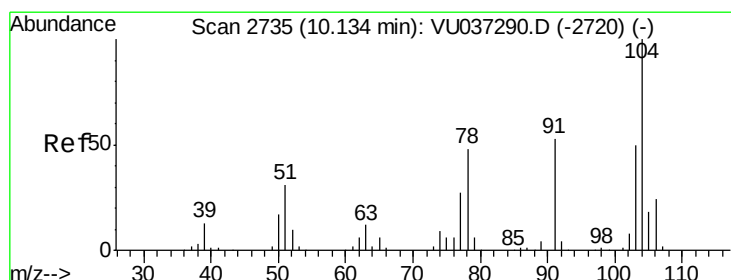
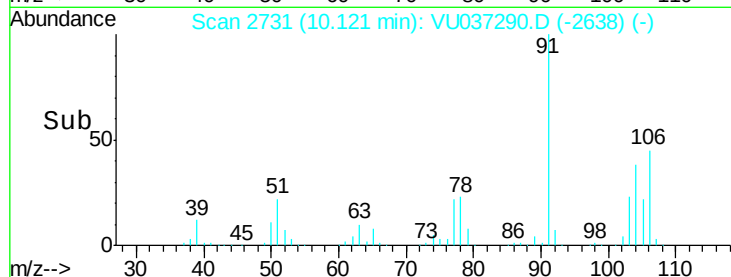
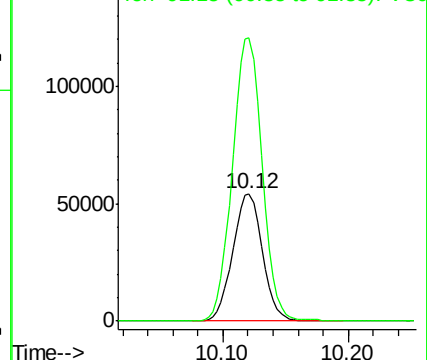
106 100

91 222.5 155.8 289.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.49 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU037290.D

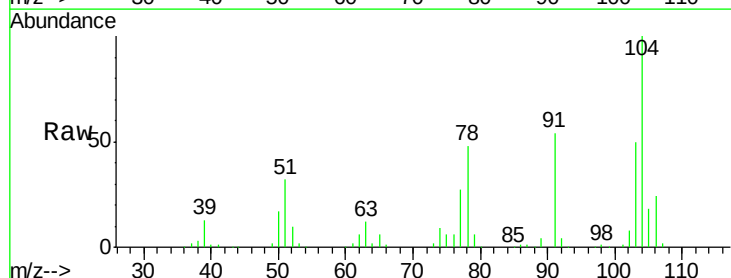
Acq: 16 Mar 2020 12:29

Tgt Ion:104 Resp: 147314

Ion Ratio Lower Upper

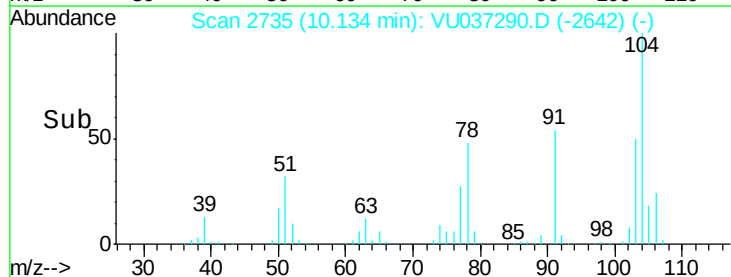
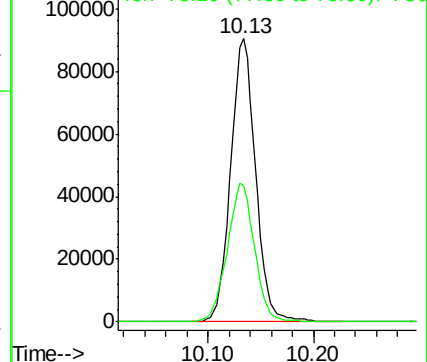
104 100

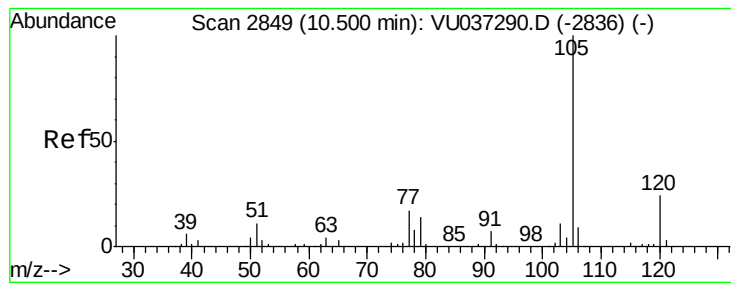
78 48.0 33.6 62.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.49 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

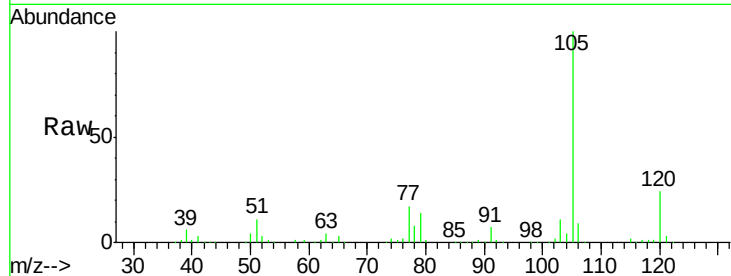
Tgt Ion: 105 Resp: 241626

Ion Ratio Lower Upper

105 100

120 25.2 20.2 30.2

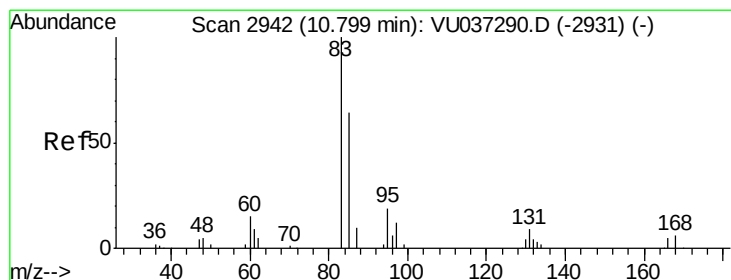
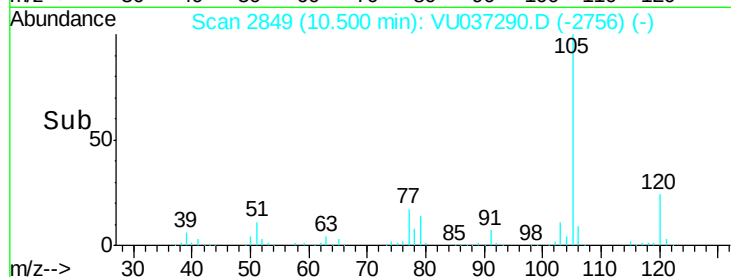
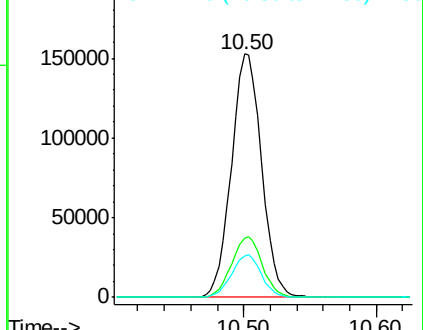
77 17.2 13.8 20.6



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: 5.39 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

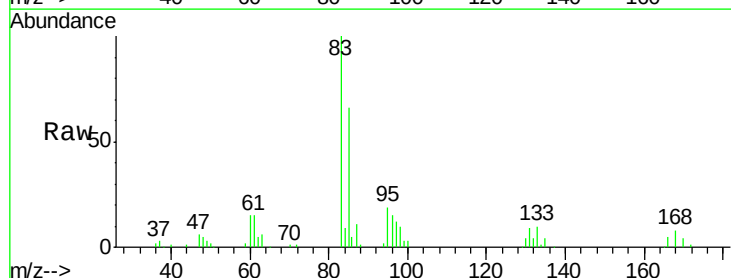
Tgt Ion: 83 Resp: 49756

Ion Ratio Lower Upper

83 100

85 65.6 45.9 85.3

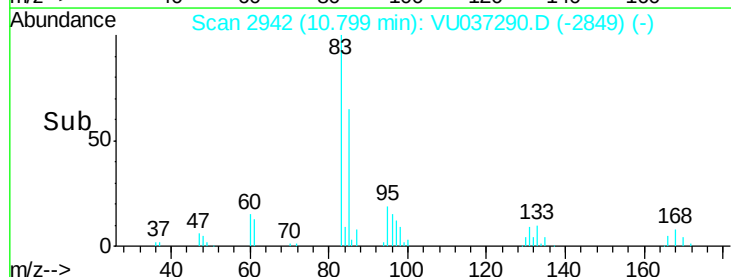
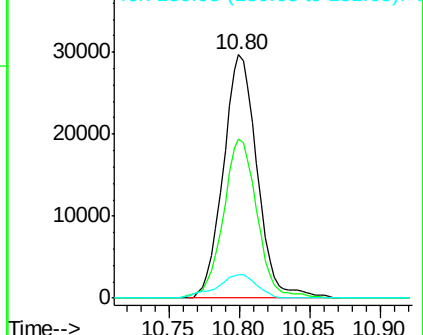
131 9.4 7.5 11.3

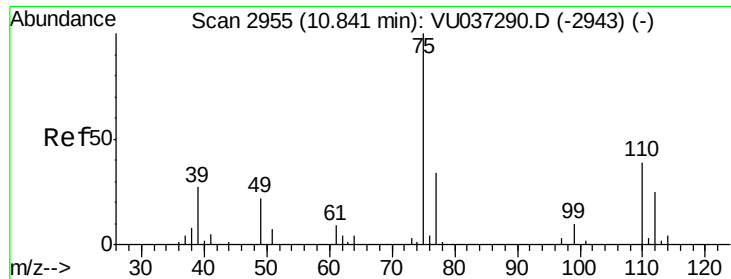


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.05 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

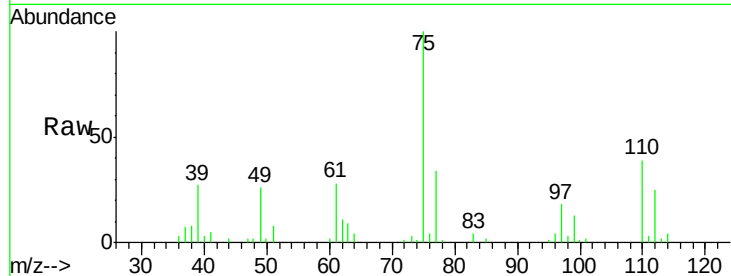
VSTD00502

Tgt Ion: 75 Resp: 37311

Ion Ratio Lower Upper

75 100

77 33.0 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

25000

20000

15000

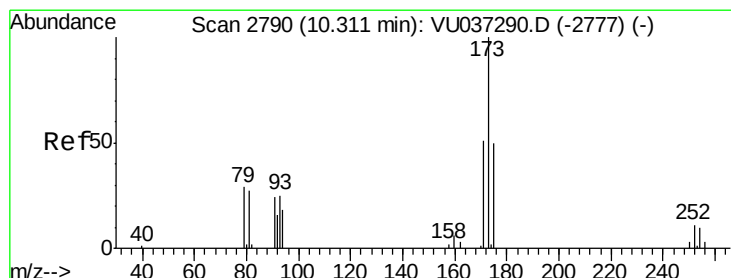
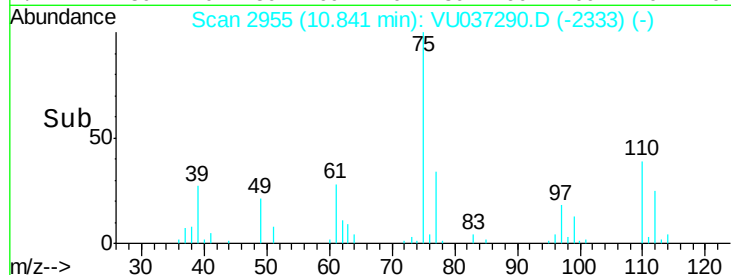
10000

5000

0

10.80 10.85 10.90

Time-->



#61

Bromoform

Concen: 5.40 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

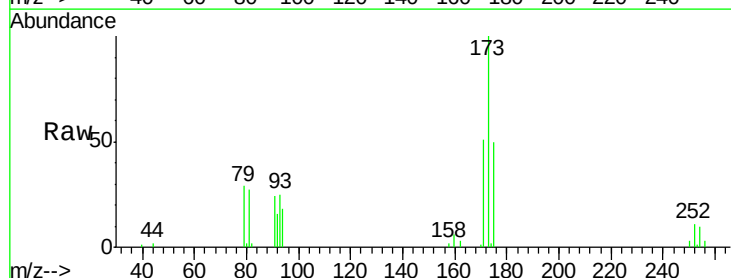
Tgt Ion: 173 Resp: 29120

Ion Ratio Lower Upper

173 100

175 47.7 38.2 57.2

254 9.8 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

20000

15000

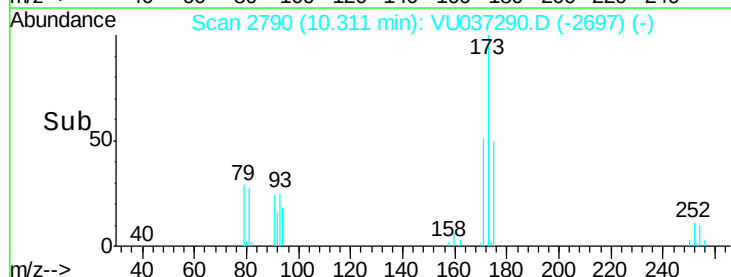
10000

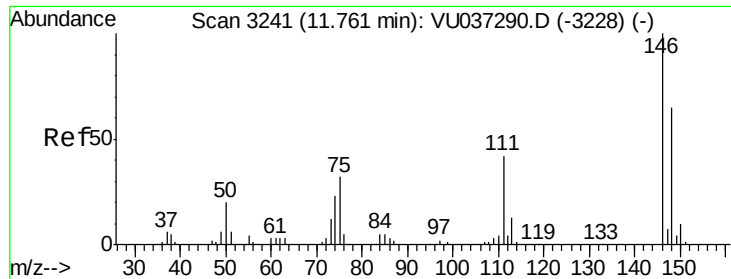
5000

0

10.25 10.30 10.35 10.40

Time-->





#62

1,3-Dichlorobenzene

Concen: 4.91 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

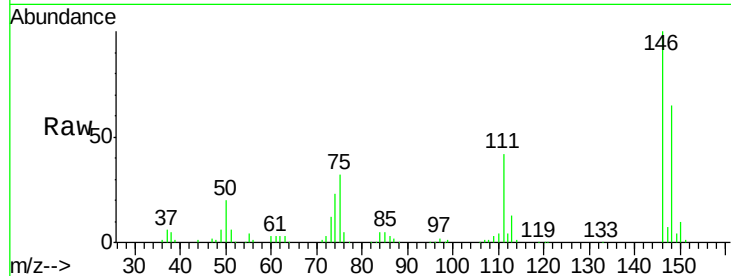
Tgt Ion:146 Resp: 111508

Ion Ratio Lower Upper

146 100

111 42.3 29.6 55.0

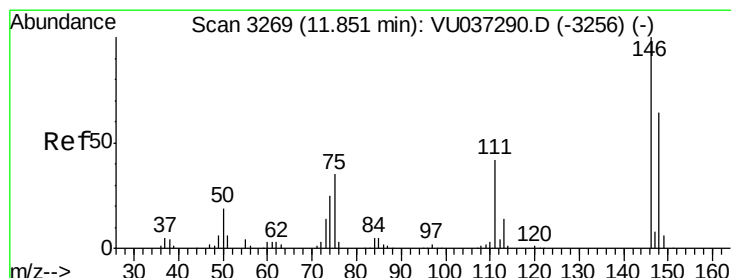
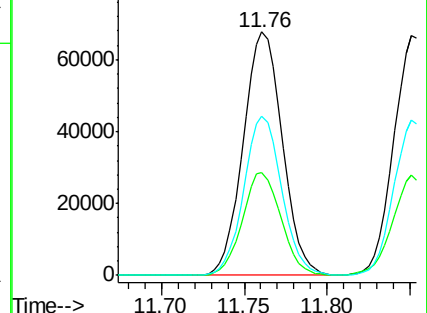
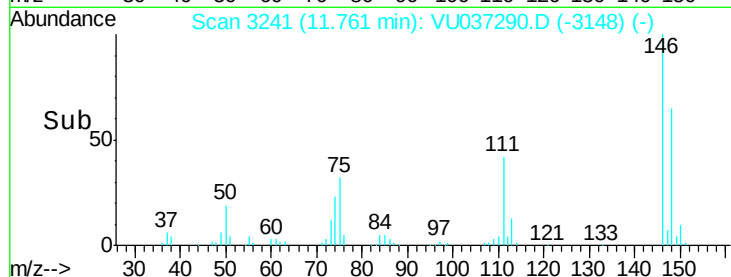
148 65.2 45.6 84.8



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: 4.80 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

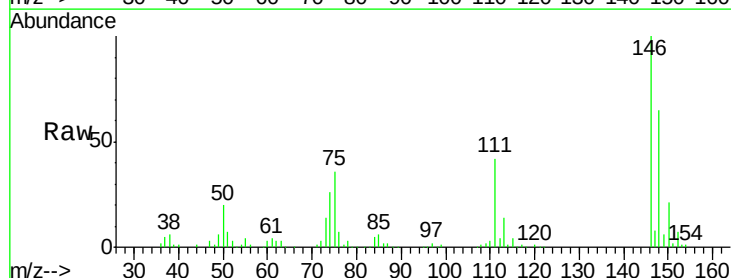
Tgt Ion:146 Resp: 108400

Ion Ratio Lower Upper

146 100

111 41.5 29.0 53.9

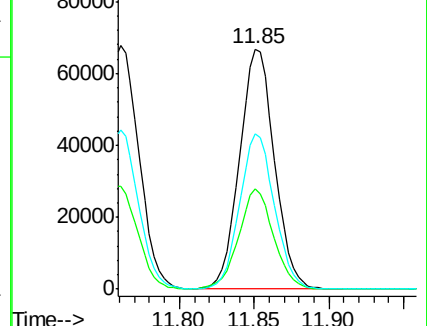
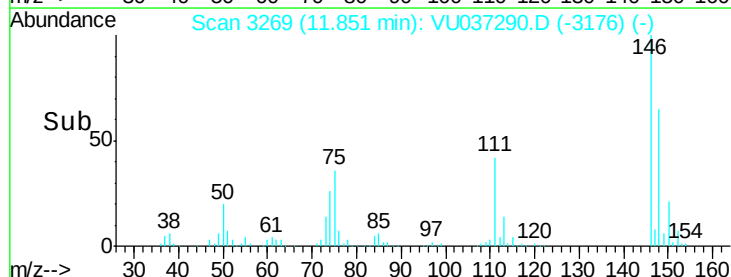
148 64.5 45.1 83.9

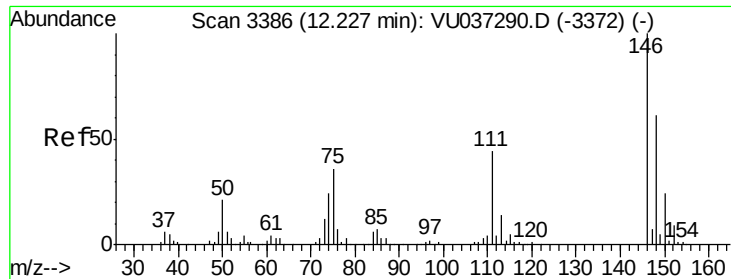


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

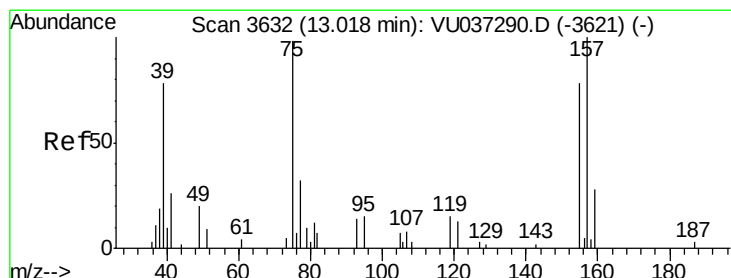
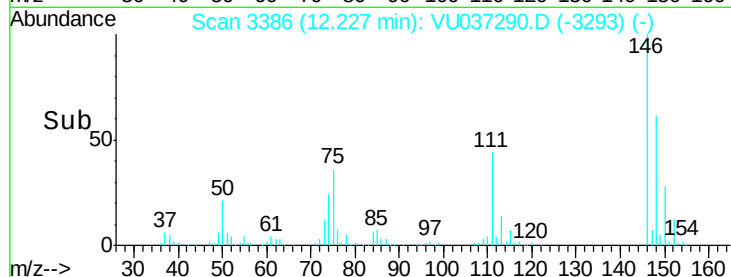
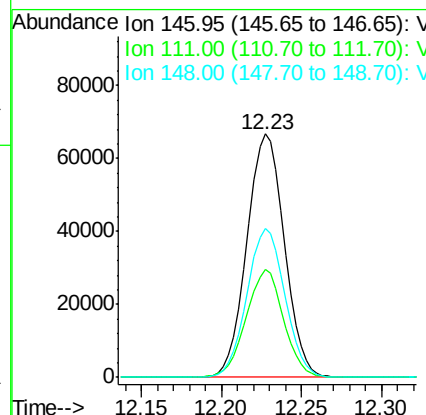
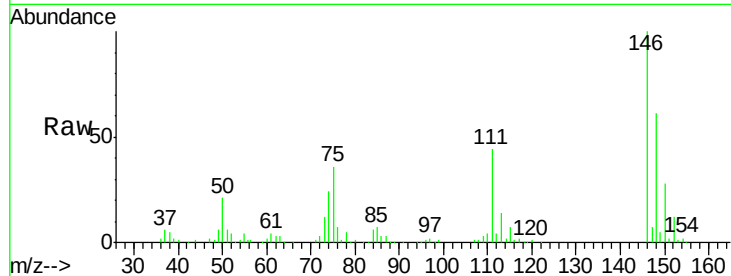




#65
 1,2-Dichlorobenzene
 Concen: 4.94 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037290.D
 Acq: 16 Mar 2020 12:29

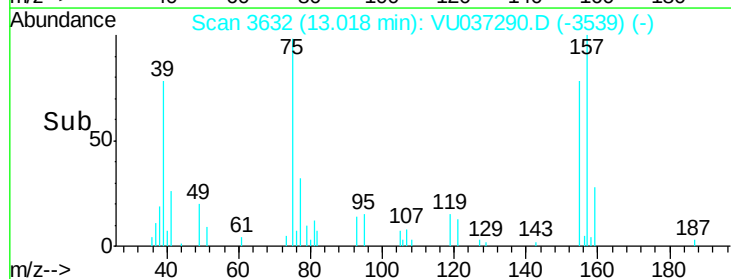
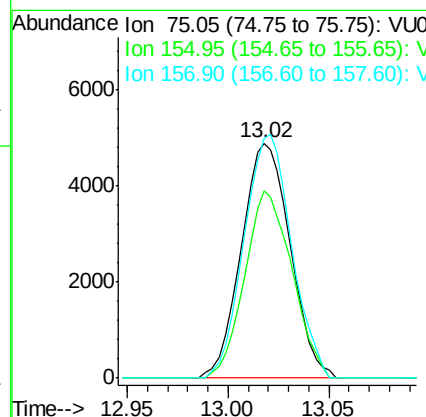
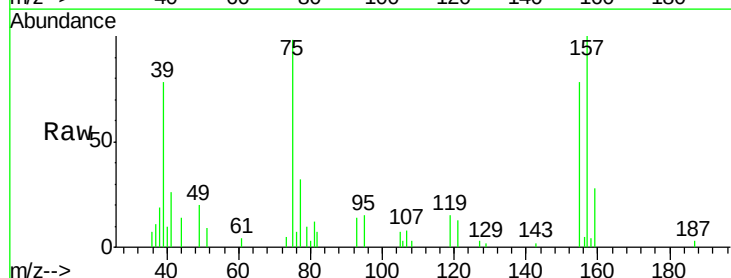
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

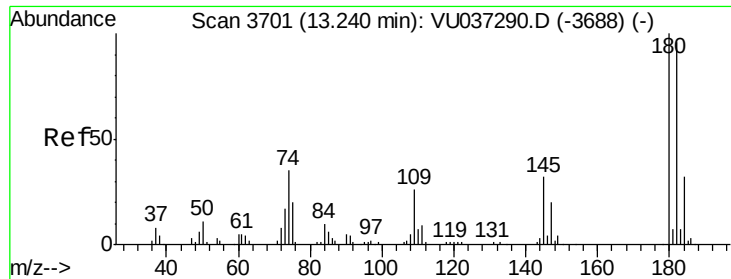
Tgt Ion: 146 Resp: 106678
 Ion Ratio Lower Upper
 146 100
 111 44.3 35.4 53.2
 148 61.0 48.8 73.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.99 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU037290.D
 Acq: 16 Mar 2020 12:29

Tgt Ion: 75 Resp: 8286
 Ion Ratio Lower Upper
 75 100
 155 79.6 63.7 95.5
 157 101.9 81.5 122.3

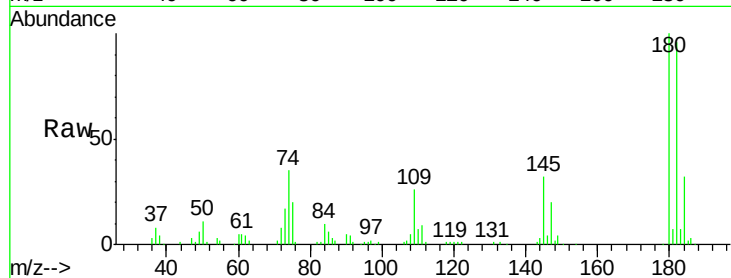




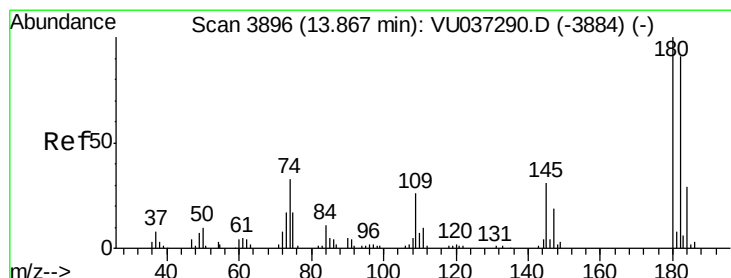
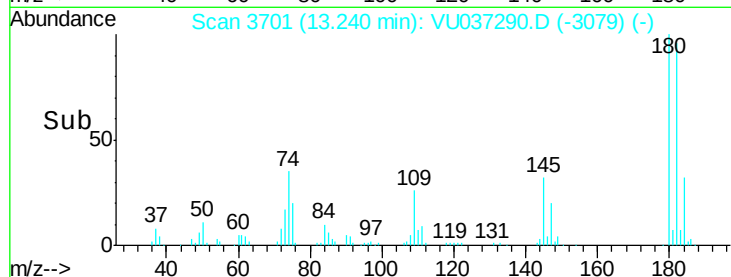
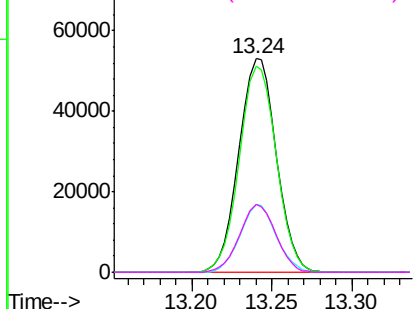
#67
 1,3,5-Trichlorobenzene
 Concen: 5.35 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU037290.D
 Acq: 16 Mar 2020 12:29

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00502

Tgt Ion:180 Resp: 84577
 Ion Ratio Lower Upper
 180 100
 182 95.3 76.2 114.4
 184 30.5 24.4 36.6
 145 30.7 24.6 36.8

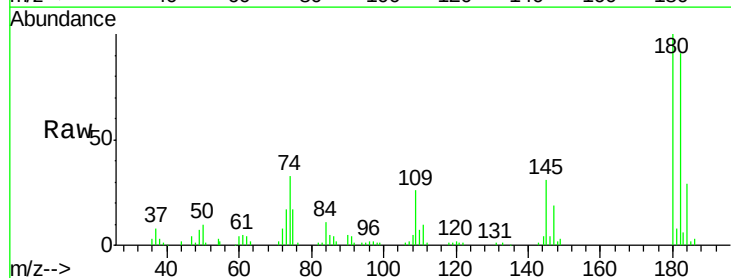


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

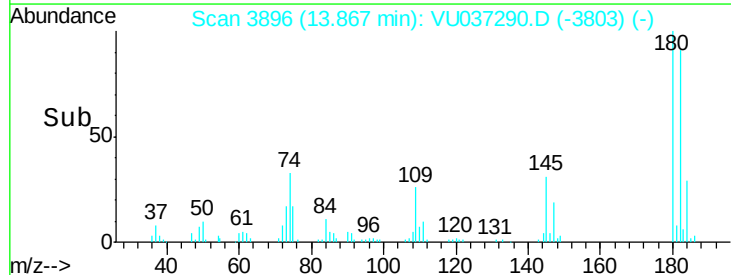
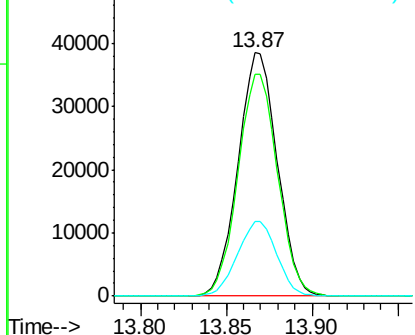


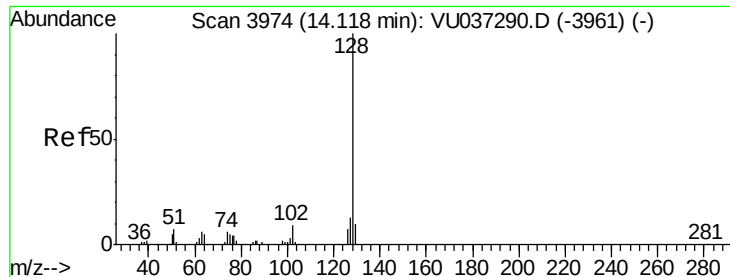
#68
 1,2,4-trichlorobenzene
 Concen: 5.63 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU037290.D
 Acq: 16 Mar 2020 12:29

Tgt Ion:180 Resp: 61197
 Ion Ratio Lower Upper
 180 100
 182 92.2 73.8 110.6
 145 30.7 24.6 36.8



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





#69

Naphthalene

Concen: 5.38 ug/L

RT: 14.12 min Scan# 3974

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

Instrument :

MSVOA_U

ClientSampleId :

VSTD00502

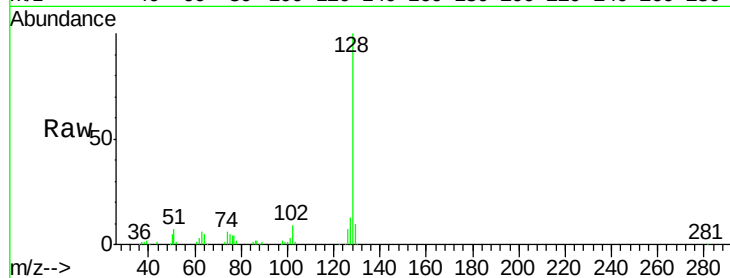
Tgt Ion:128 Resp: 83228

Ion Ratio Lower Upper

128 100

129 10.7 8.6 12.8

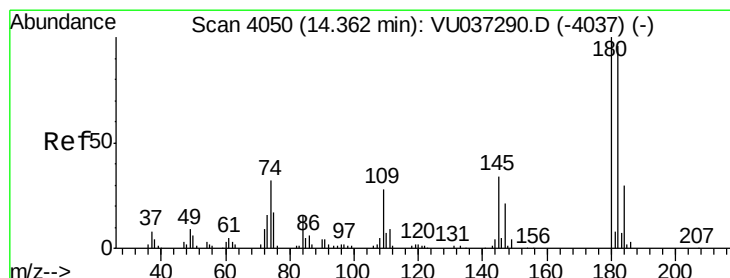
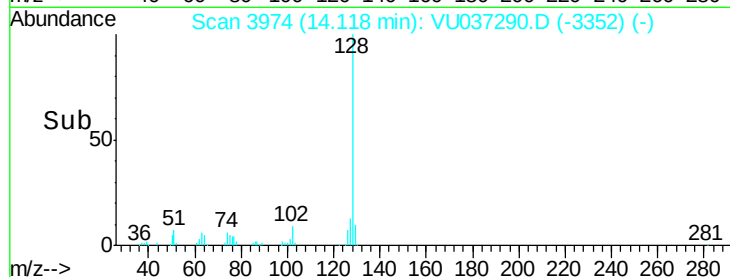
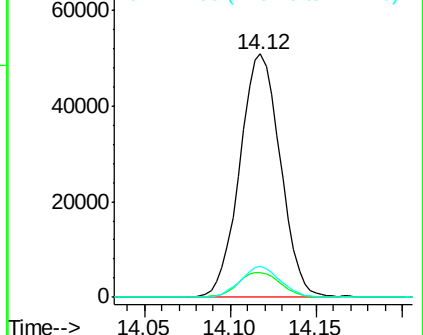
127 12.5 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.62 ug/L

RT: 14.36 min Scan# 4050

Delta R.T. 0.00 min

Lab File: VU037290.D

Acq: 16 Mar 2020 12:29

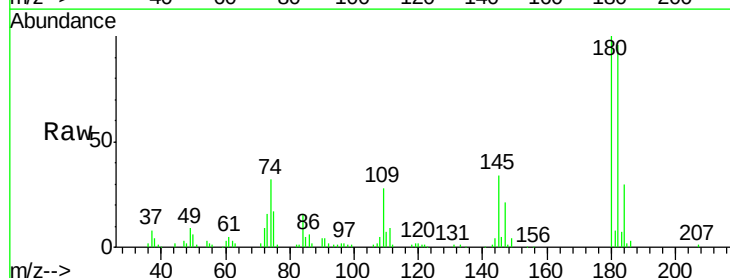
Tgt Ion:180 Resp: 57122

Ion Ratio Lower Upper

180 100

182 96.8 77.4 116.2

145 33.4 26.7 40.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

