

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031220\
 Data File : VU037204.D
 Acq On : 12 Mar 2020 21:10
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 13 07:35:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 13 07:30:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	413440	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	404921	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	205544	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	146974	45.93	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.86%
7) Chloroethane-d5	1.93	69	122403	47.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	94.90%
11) 1,1-Dichloroethene-d2	2.59	63	281036	47.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.74%
21) 2-Butanone-d5	4.66	46	263388	104.01	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.01%
24) Chloroform-d	5.10	84	307578	50.00	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.00%
26) 1,2-Dichloroethane-d4	5.74	65	220789	49.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.06%
32) Benzene-d6	5.76	84	544689	48.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.74%
36) 1,2-Dichloropropane-d6	6.72	67	176489	48.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.74%
41) Toluene-d8	7.92	98	526725	49.43	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.86%
43) trans-1,3-Dichloropropene-	8.20	79	93824	47.24	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.48%
47) 2-Hexanone-d5	8.66	63	199397	105.55	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	105.55%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	277195	49.05	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.10%
64) 1,2-Dichlorobenzene-d4	12.21	152	208308	48.86	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.72%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	202832	48.007	ug/L 99
3) Chloromethane	1.54	50	174280	50.436	ug/L 100
5) Vinyl chloride	1.62	62	186441	49.236	ug/L 98
6) Bromomethane	1.87	94	82348	56.653	ug/L 97
8) Chloroethane	1.95	64	106160	47.853	ug/L 97
9) Trichlorofluoromethane	2.16	101	288608	49.918	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	130908	48.480	ug/L 97
12) 1,1-Dichloroethene	2.60	96	118453	48.548	ug/L 95
13) Acetone	2.65	43	175557	73.072	ug/L 99
14) Carbon disulfide	2.82	76	325536	47.059	ug/L 100
15) Methyl Acetate	2.98	43	190804	50.494	ug/L 100
16) Methylene chloride	3.08	84	146520	48.111	ug/L 98
17) trans-1,2-Dichloroethene	3.39	96	127535	49.890	ug/L 96
18) Methyl tert-butyl Ether	3.40	73	496335	50.278	ug/L 99
19) 1,1-Dichloroethane	3.91	63	283714	49.600	ug/L 98
20) cis-1,2-Dichloroethene	4.71	96	154011	49.809	ug/L 98
22) 2-Butanone	4.75	43	288403	94.912	ug/L 99

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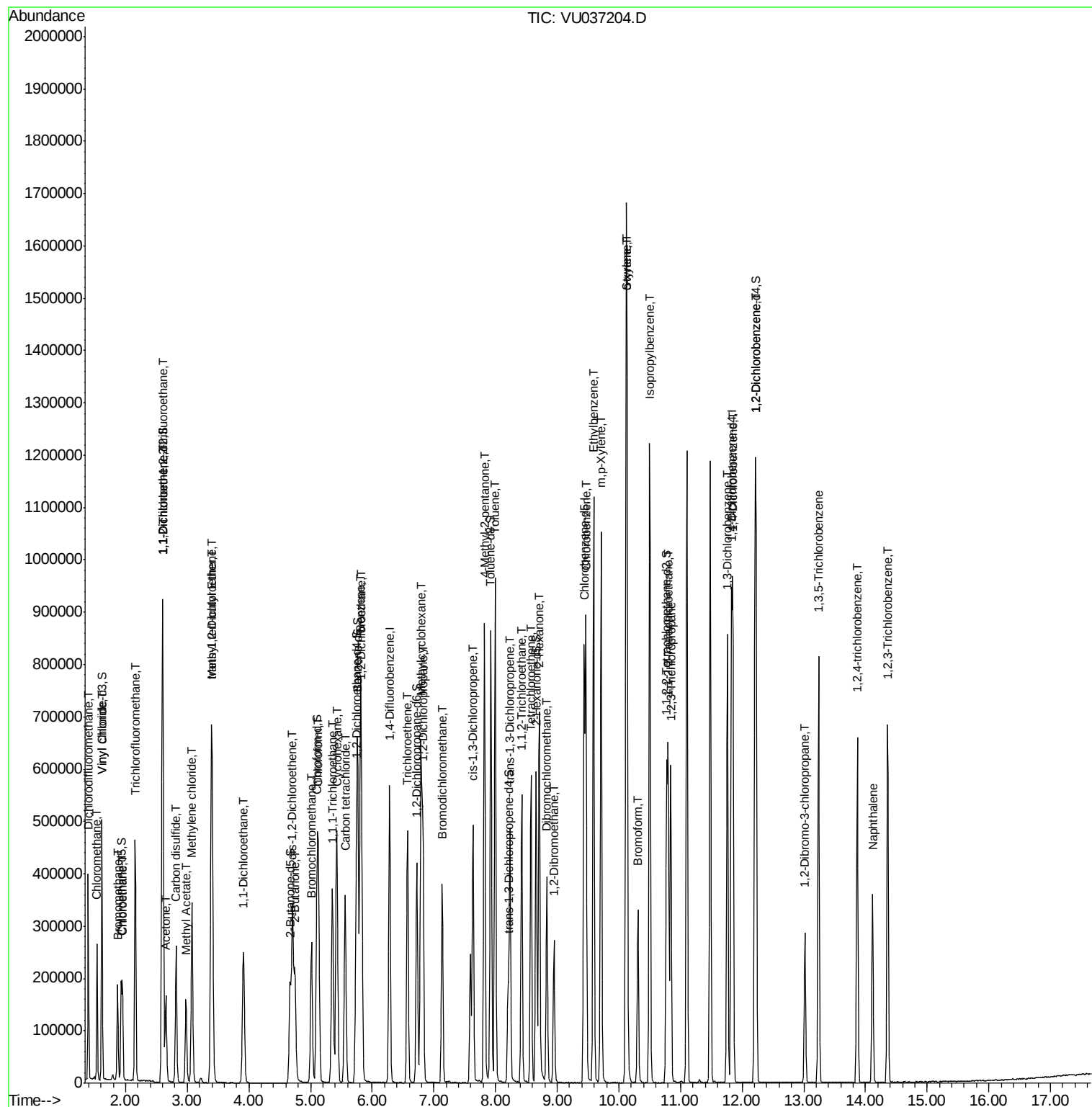
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	76892	49.313	ug/L	97
25) Chloroform	5.13	83	304522	49.233	ug/L	100
27) 1,2-Dichloroethane	5.83	62	269335	48.870	ug/L	98
29) Cyclohexane	5.43	56	234070	48.897	ug/L	98
30) 1,1,1-Trichloroethane	5.35	97	273022	50.798	ug/L	98
31) Carbon tetrachloride	5.56	117	239552	50.444	ug/L	98
33) Benzene	5.81	78	596528	49.981	ug/L	100
34) Trichloroethene	6.57	95	157717	50.853	ug/L	97
35) Methylcyclohexane	6.79	83	230849	49.164	ug/L	99
37) 1,2-Dichloropropane	6.82	63	166754	49.153	ug/L	100
38) Bromodichloromethane	7.13	83	231162	48.738	ug/L	98
39) cis-1,3-Dichloropropene	7.63	75	254464	48.374	ug/L	99
40) 4-Methyl-2-pentanone	7.82	43	564080	102.140	ug/L	99
42) Toluene	7.99	91	662276	50.814	ug/L	98
44) trans-1,3-Dichloropropene	8.23	75	250493	50.435	ug/L	100
45) 1,1,2-Trichloroethane	8.42	97	156448	50.646	ug/L	98
46) Tetrachloroethene	8.57	164	116784	50.685	ug/L	98
48) 2-Hexanone	8.71	43	447725	102.875	ug/L	98
49) Dibromochloromethane	8.83	129	185034	50.915	ug/L	98
50) 1,2-Dibromoethane	8.95	107	168651	50.591	ug/L	99
51) Chlorobenzene	9.47	112	409054	49.905	ug/L	99
52) Ethylbenzene	9.59	91	759330	50.315	ug/L	99
53) m,p-Xylene	9.71	106	272938	51.133	ug/L	100
54) o-xylene	10.12	106	263959	50.052	ug/L	98
55) Styrene	10.13	104	458397	51.256	ug/L	99
56) Isopropylbenzene	10.50	105	739921	50.479	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	284125	50.389	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	236120	50.068	ug/L	98
61) Bromoform	10.31	173	140941	49.094	ug/L	99
62) 1,3-Dichlorobenzene	11.76	146	315914	48.491	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	318406	48.356	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	326641	49.089	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	73417	50.046	ug/L	95
67) 1,3,5-Trichlorobenzene	13.24	180	224306	47.243	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	180219	48.610	ug/L	100
69) Naphthalene	14.11	128	274285	48.783	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	191574	49.240	ug/L	99

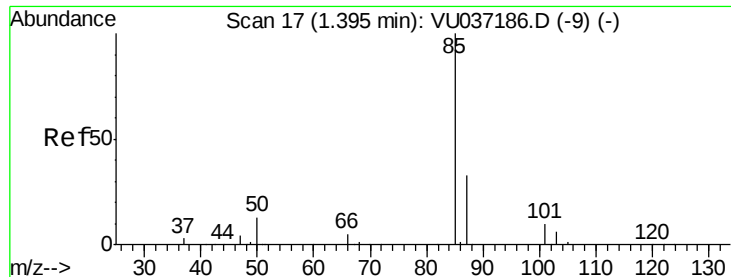
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 48.007 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

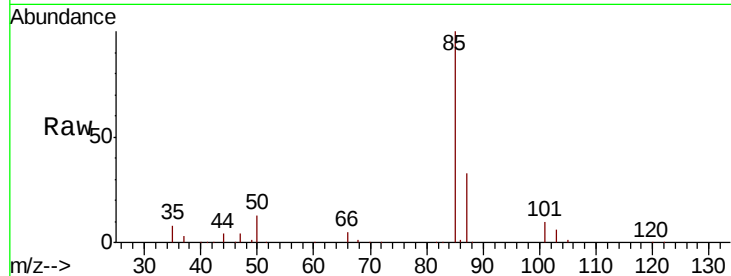
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 202832

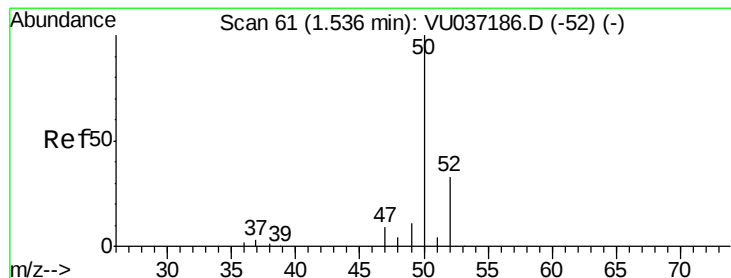
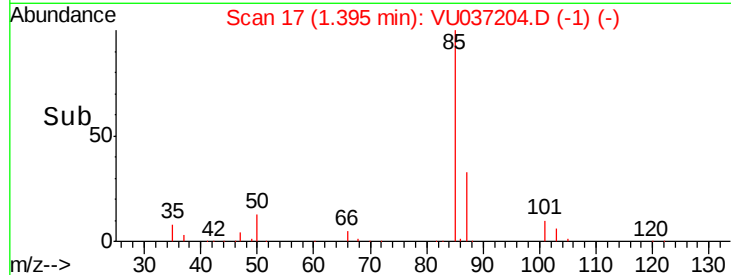
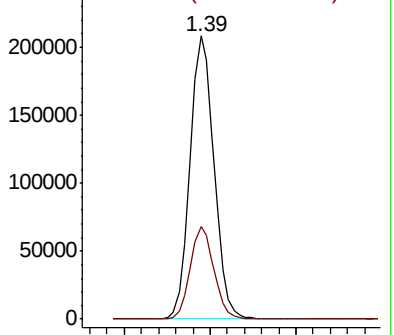
Ion Ratio Lower Upper

85 100

87 32.1 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VU037186.D (-9) (-)



#3

Chloromethane

Concen: 50.436 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037204.D

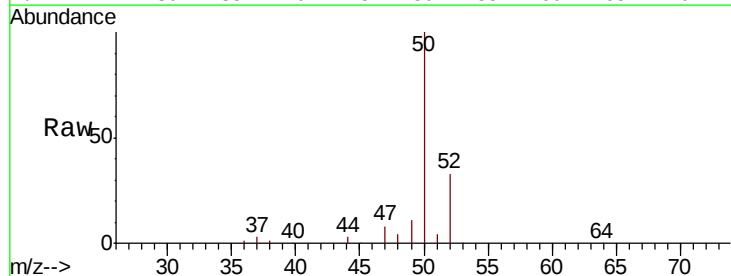
Acq: 12 Mar 2020 21:10

Tgt Ion: 50 Resp: 174280

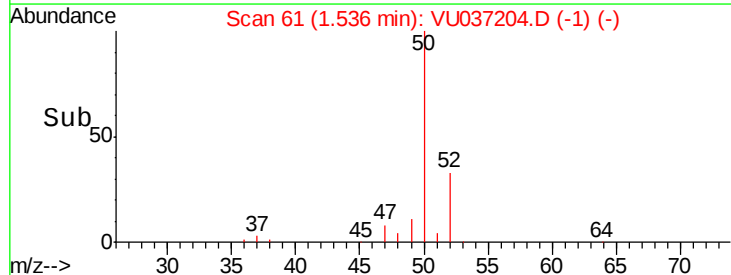
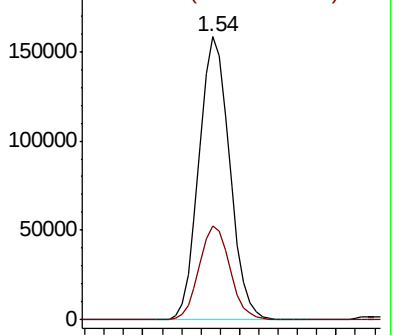
Ion Ratio Lower Upper

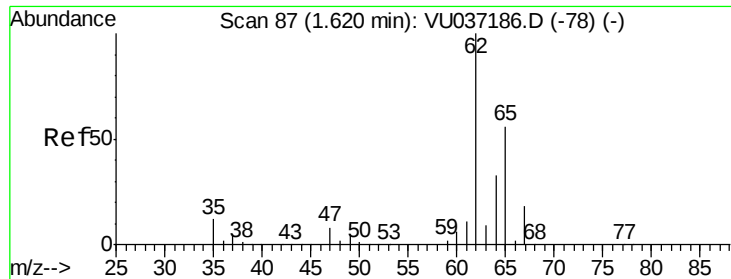
50 100

52 33.1 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU037186.D (-52) (-)





#5

Vinyl chloride

Concen: 49.236 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

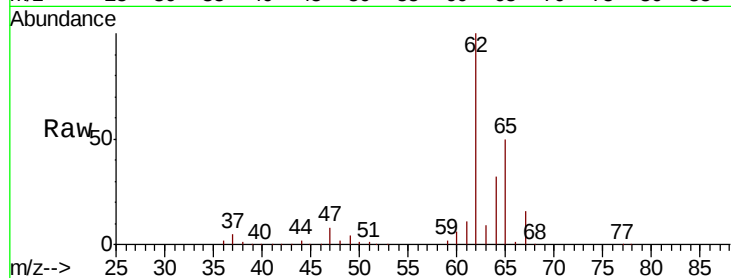
ClientSampled :

Tot Ion: 62 Resp: 186441

Ion Ratio Lower Upper

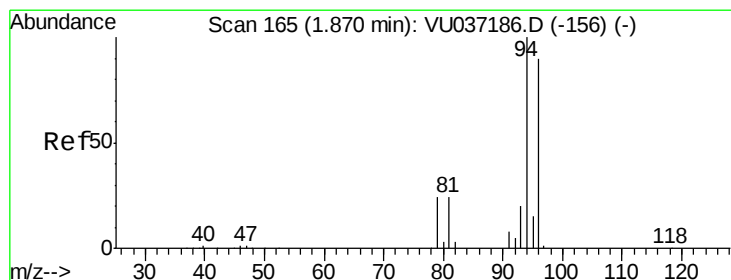
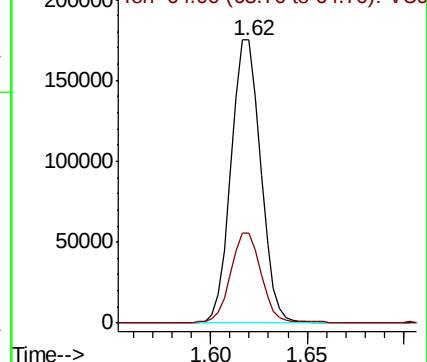
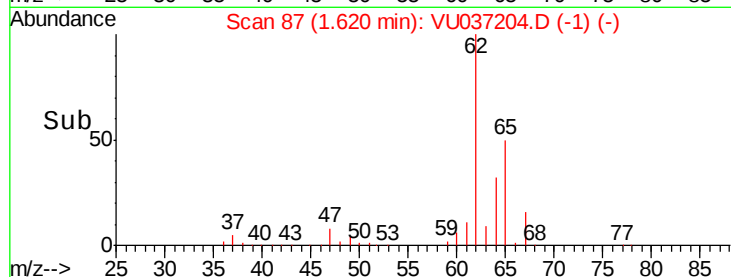
62 100

64 32.1 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VU037204.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VU037204.D (-1) (-)



#6

Bromomethane

Concen: 56.653 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU037204.D

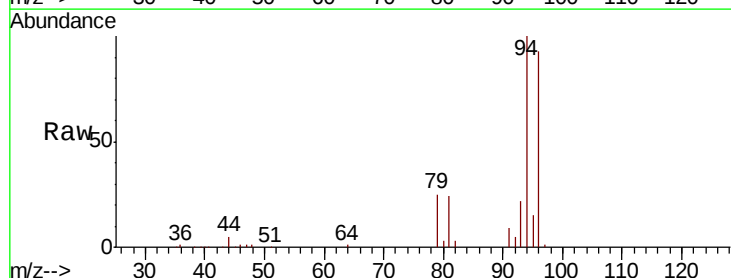
Acq: 12 Mar 2020 21:10

Tgt Ion: 94 Resp: 82348

Ion Ratio Lower Upper

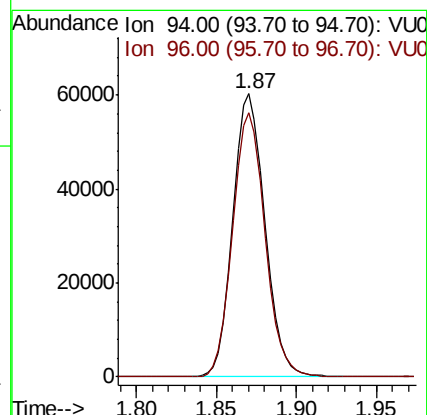
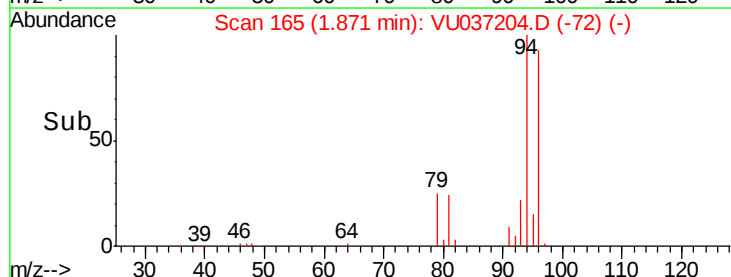
94 100

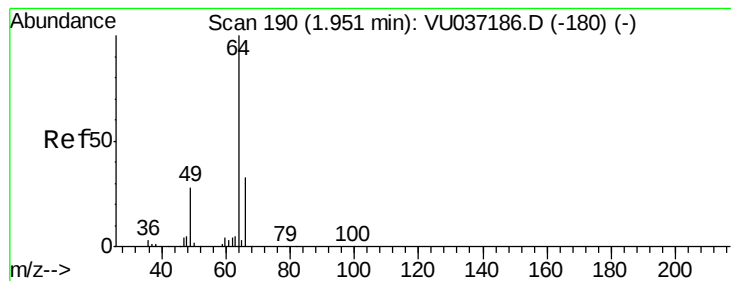
96 93.5 63.5 117.9



Abundance Ion 94.00 (93.70 to 94.70): VU037204.D (-72) (-)

Ion 96.00 (95.70 to 96.70): VU037204.D (-72) (-)





#8

Chloroethane

Concen: 47.853 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

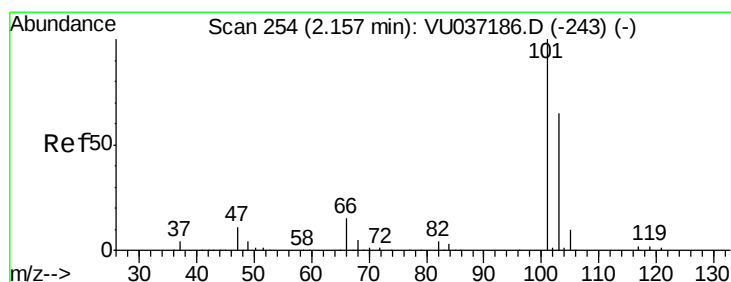
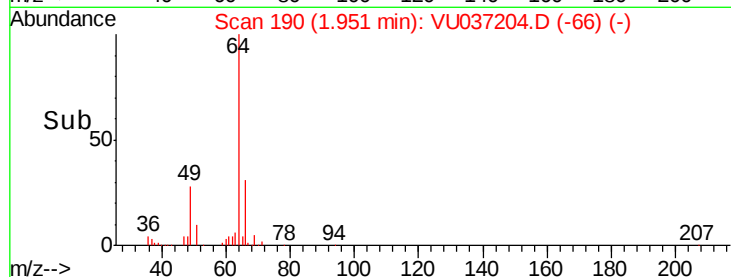
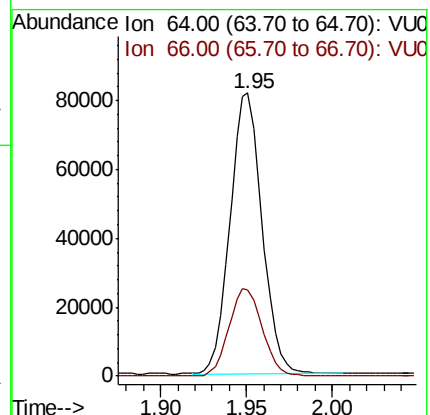
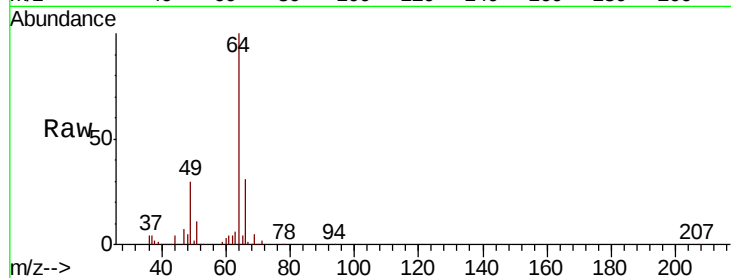
ClientSampleId :

Tot Ion: 64 Resp: 106160

Ion Ratio Lower Upper

64 100

66 30.7 22.6 42.0



#9

Trichlorofluoromethane

Concen: 49.918 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037204.D

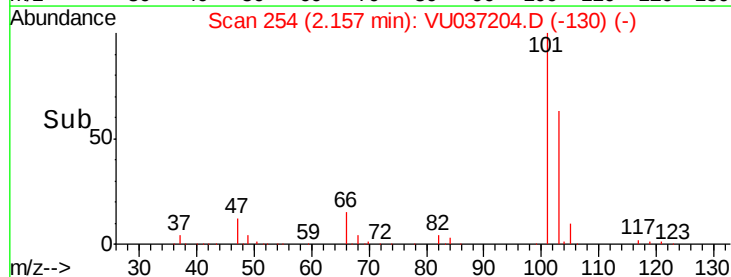
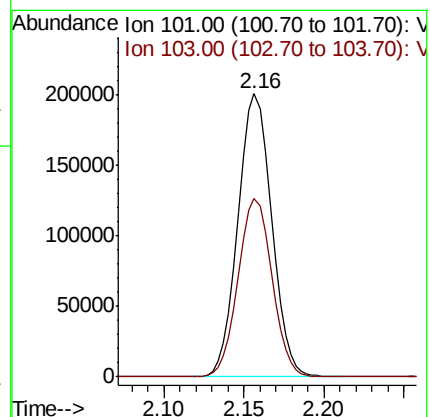
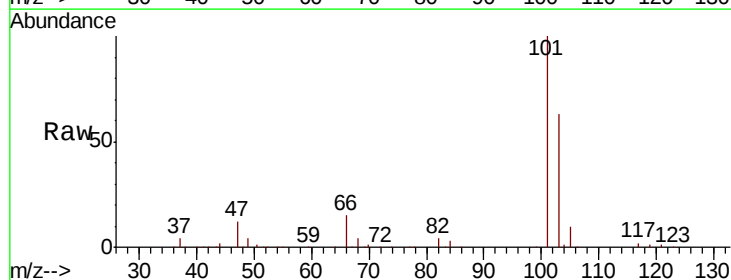
Acq: 12 Mar 2020 21:10

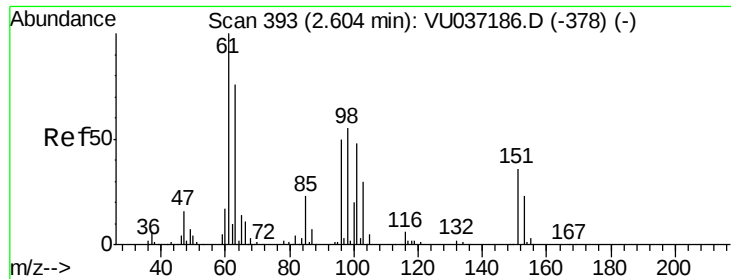
Tgt Ion: 101 Resp: 288608

Ion Ratio Lower Upper

101 100

103 63.3 51.1 76.7





#10

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

Concen: 48.480 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

ClientSampled :

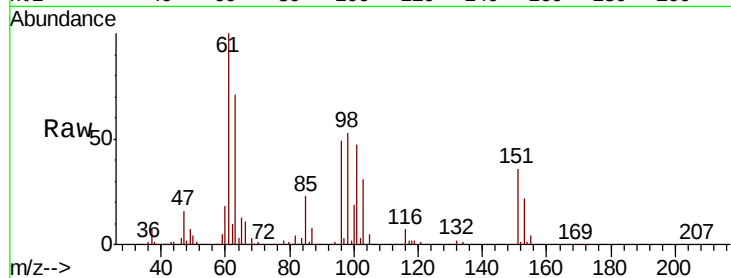
Tot Ion:101 Resp: 130908

Ion Ratio Lower Upper

101 100

85 48.9 37.8 56.6

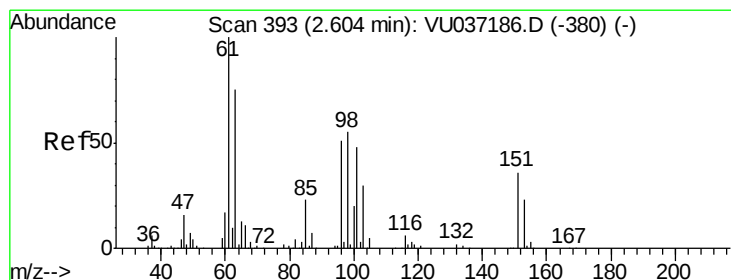
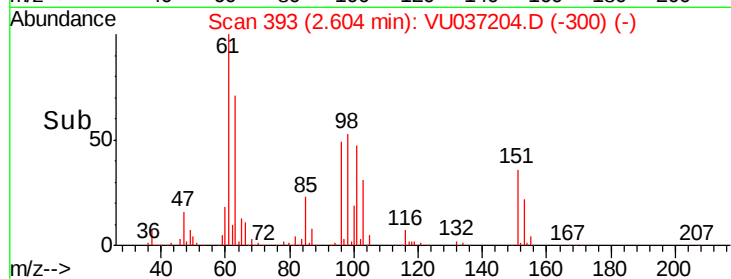
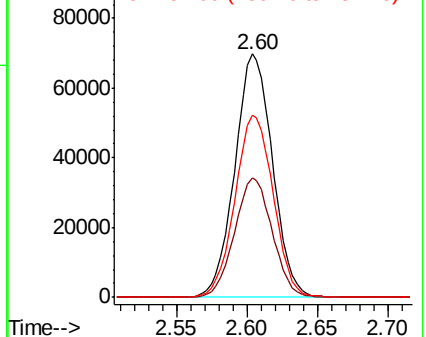
151 75.7 58.5 87.7



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: 48.548 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

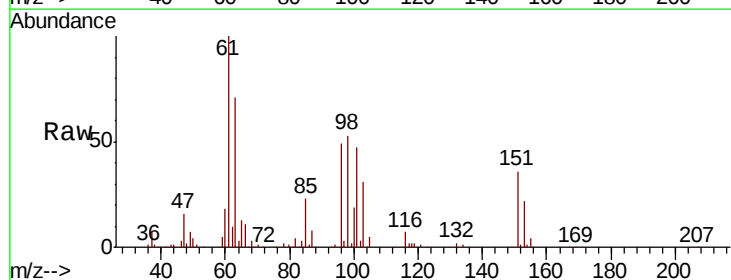
Tgt Ion: 96 Resp: 118453

Ion Ratio Lower Upper

96 100

61 202.3 138.8 257.8

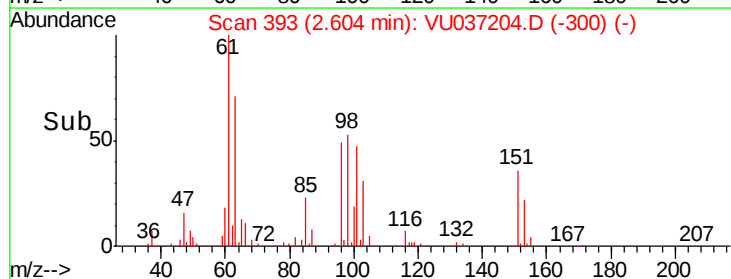
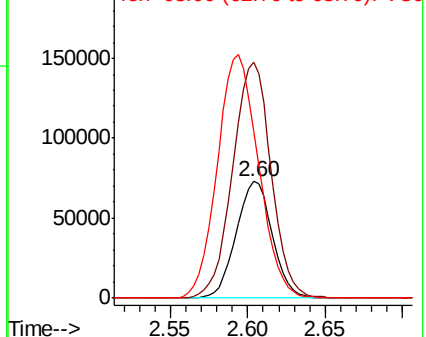
63 142.8 106.4 197.6

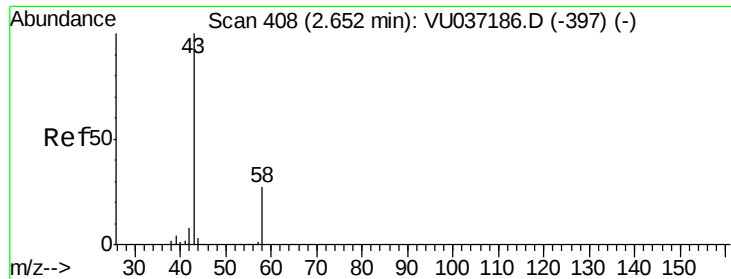


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 73.072 ug/L

RT: 2.65 min Scan# 408

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

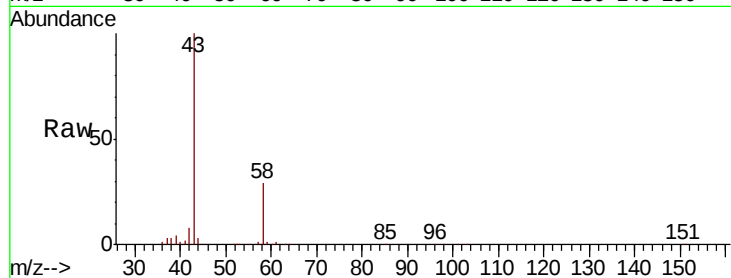
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 175557

Ion Ratio Lower Upper

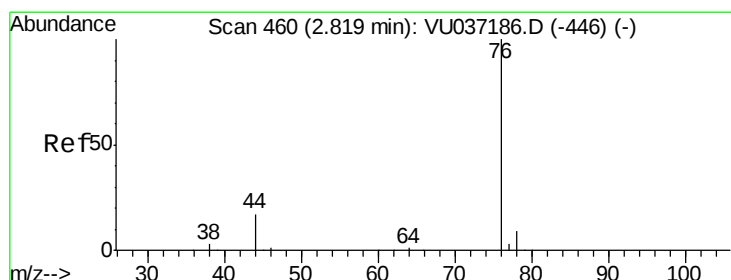
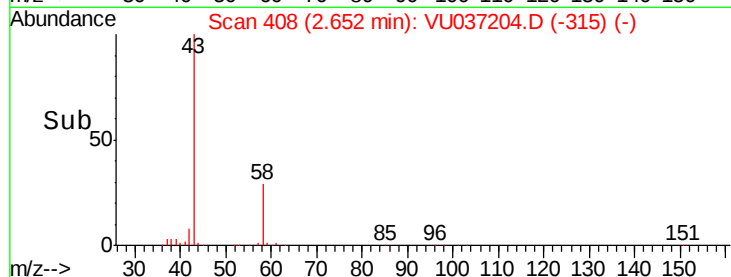
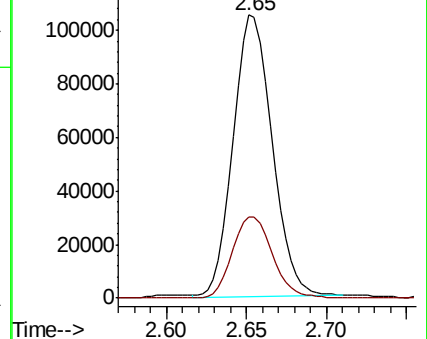
43 100

58 29.3 0.0 57.2



Abundance Ion 43.00 (42.70 to 43.70): VU037186.D (-397) (-)

Ion 58.00 (57.70 to 58.70): VU037186.D (-397) (-)



#14

Carbon disulfide

Concen: 47.059 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037204.D

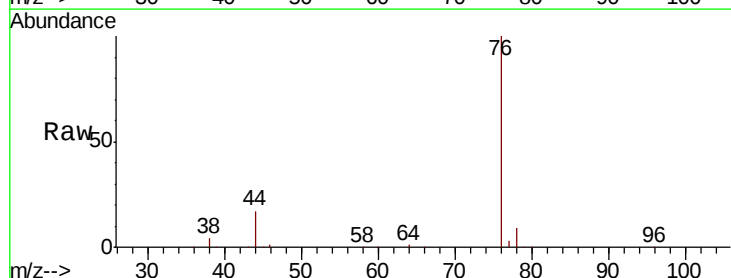
Acq: 12 Mar 2020 21:10

Tgt Ion: 76 Resp: 325536

Ion Ratio Lower Upper

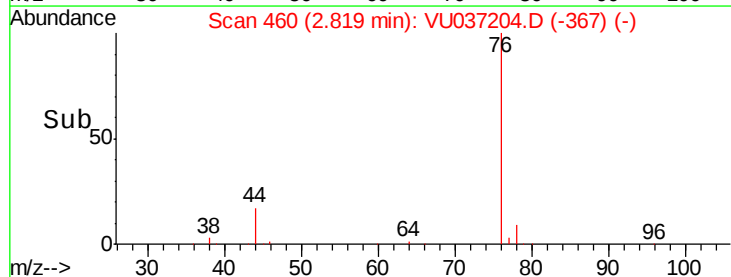
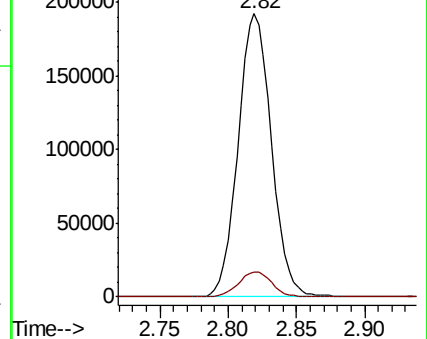
76 100

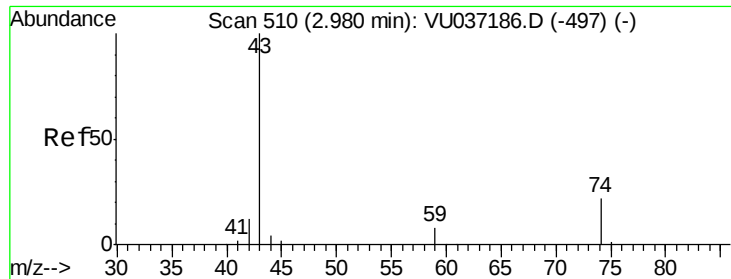
78 8.8 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VU037186.D (-446) (-)

Ion 78.00 (77.70 to 78.70): VU037186.D (-446) (-)

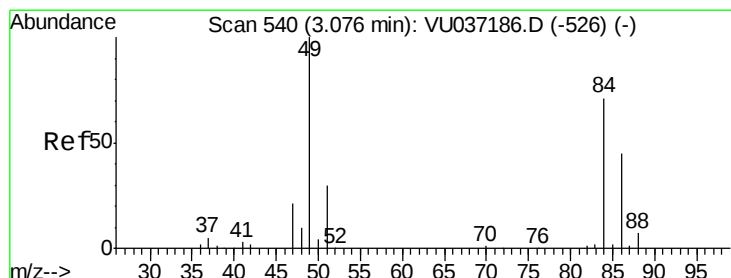
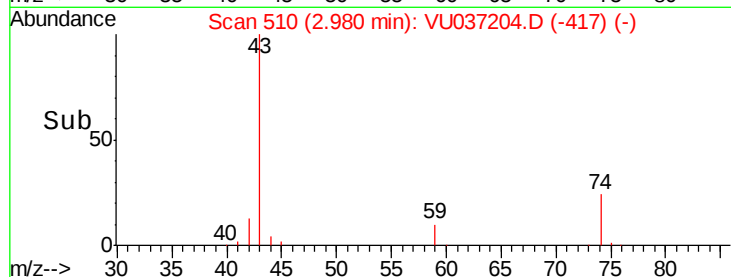
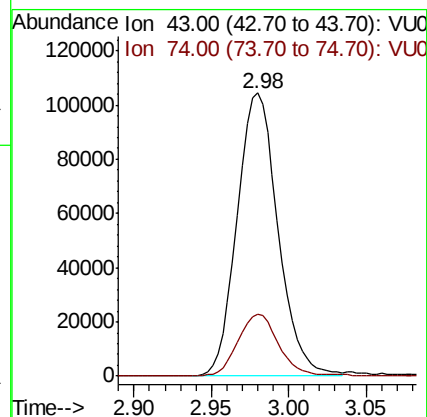
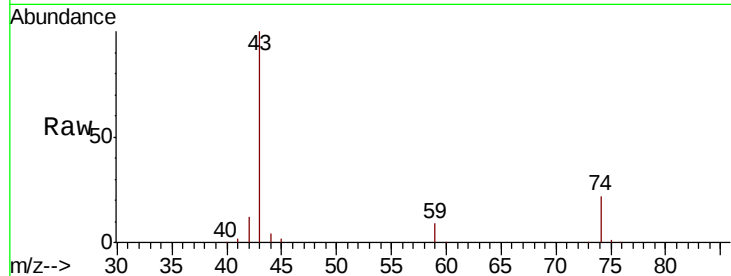




#15
Methvl Acetate
Concen: 50.494 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

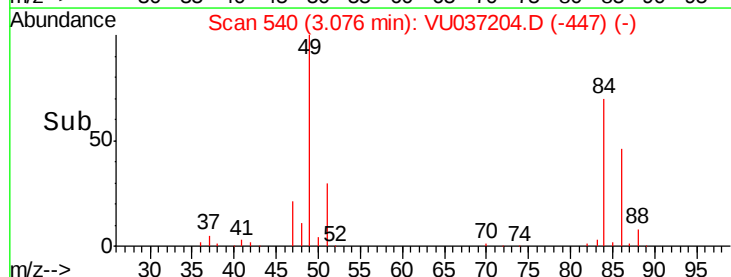
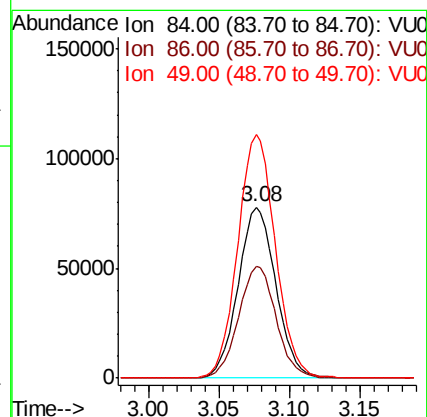
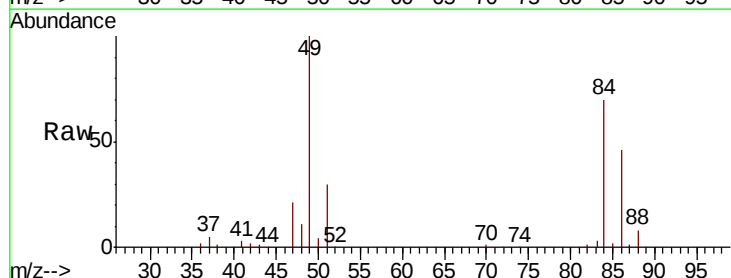
Instrument :
MSVOA_U
ClientSampled :

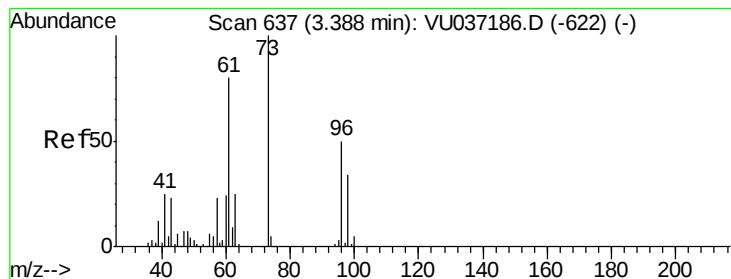
Tot Ion: 43 Resp: 190804
Ion Ratio Lower Upper
43 100
74 21.7 17.4 26.0



#16
Methylene chloride
Concen: 48.111 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

Tgt Ion: 84 Resp: 146520
Ion Ratio Lower Upper
84 100
86 65.3 44.0 81.6
49 142.4 98.6 183.2





#17

trans-1,2-Dichloroethene

Concen: 49.890 ug/L

RT: 3.39 min Scan# 637

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :
MSVOA_U
ClientSampled :

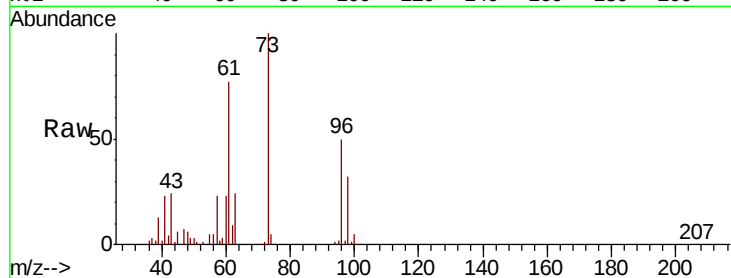
Tot Ion: 96 Resp: 127535

Ion Ratio Lower Upper

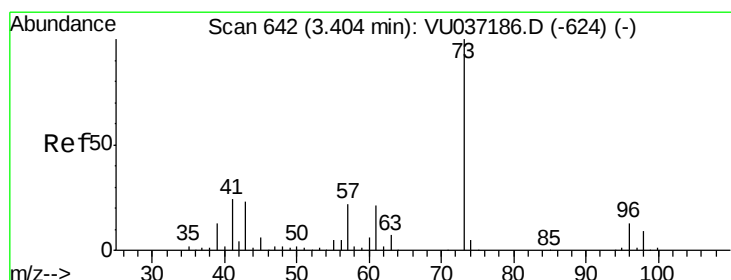
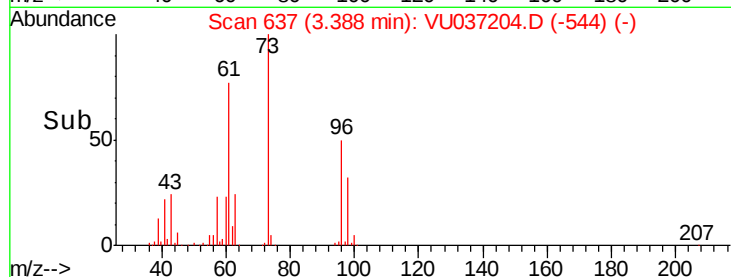
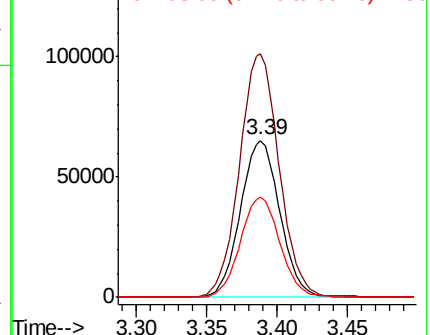
96 100

61 155.4 112.3 208.5

98 63.8 48.0 89.2



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 50.278 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

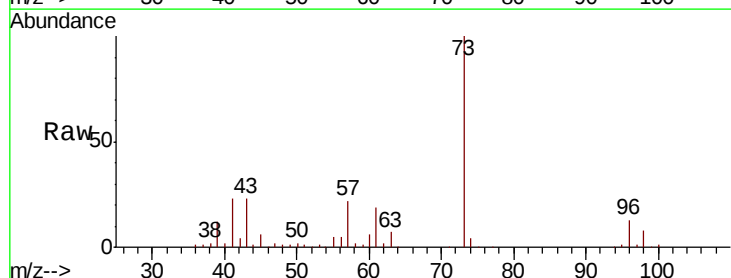
Tgt Ion: 73 Resp: 496335

Ion Ratio Lower Upper

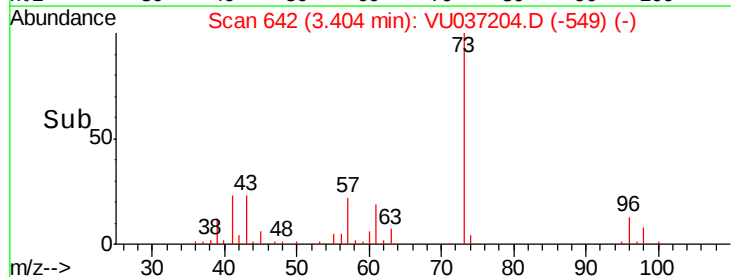
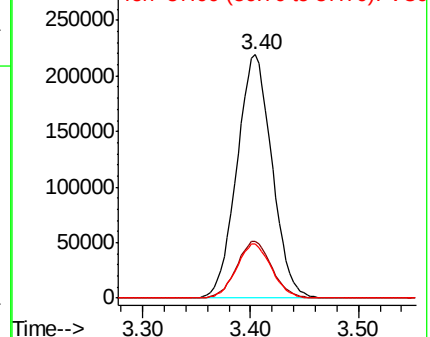
73 100

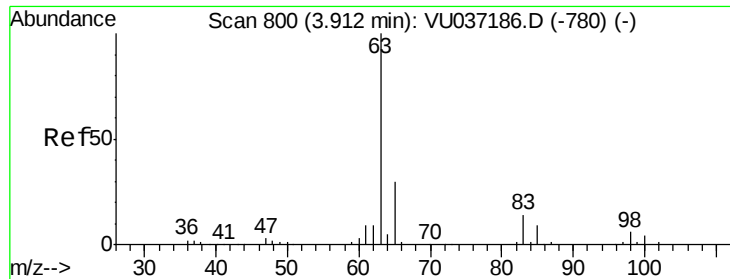
43 23.4 18.5 27.7

57 22.3 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 49.600 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

ClientSampled :

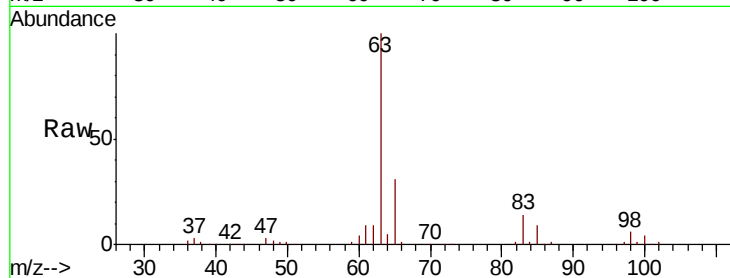
Tot Ion: 63 Resp: 283714

Ion Ratio Lower Upper

63 100

65 31.5 20.8 38.6

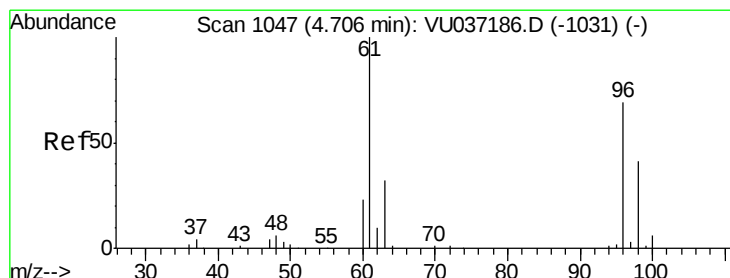
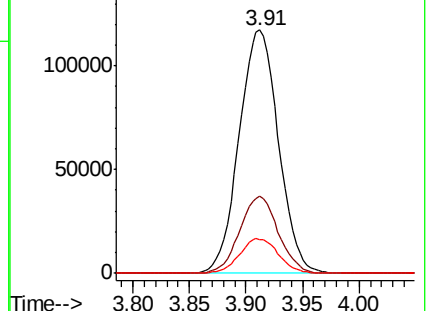
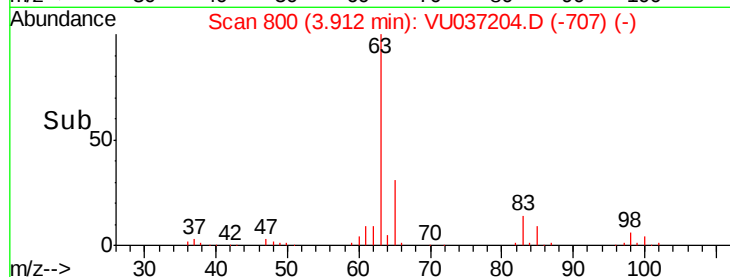
83 14.1 9.9 18.3



Abundance Ion 63.00 (62.70 to 63.70): VU037204.D (-954) (-)

Ion 65.00 (64.70 to 65.70): VU037204.D (-954) (-)

Ion 83.00 (82.70 to 83.70): VU037204.D (-954) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.809 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

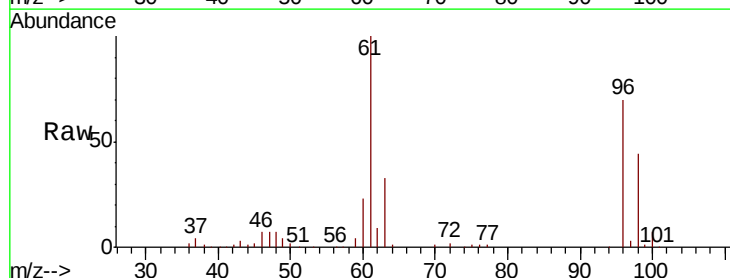
Tgt Ion: 96 Resp: 154011

Ion Ratio Lower Upper

96 100

61 142.1 101.2 187.8

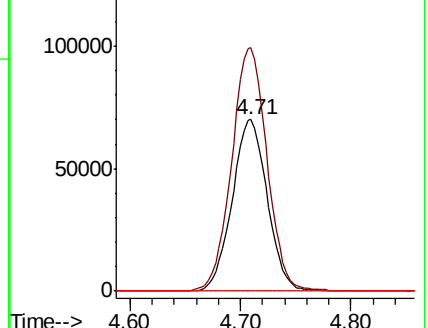
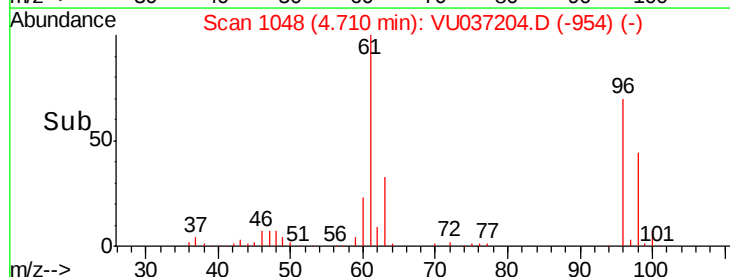
68 0.0 0.0 0.0

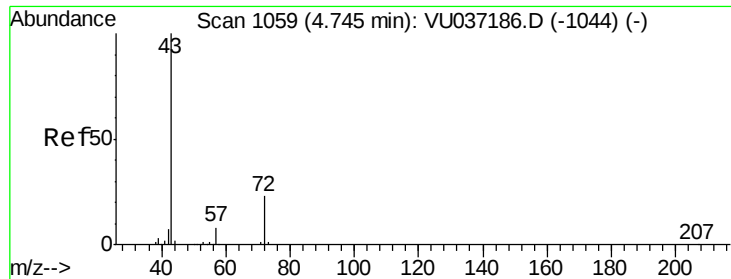


Abundance Ion 96.00 (95.70 to 96.70): VU037204.D (-954) (-)

Ion 61.00 (60.70 to 61.70): VU037204.D (-954) (-)

Ion 68.00 (67.70 to 68.70): VU037204.D (-954) (-)

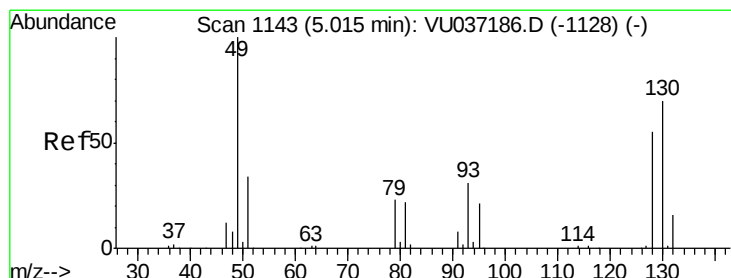
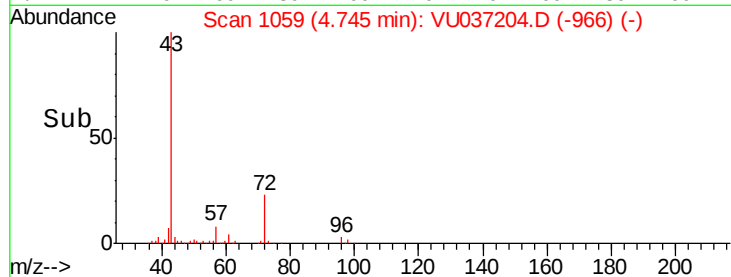
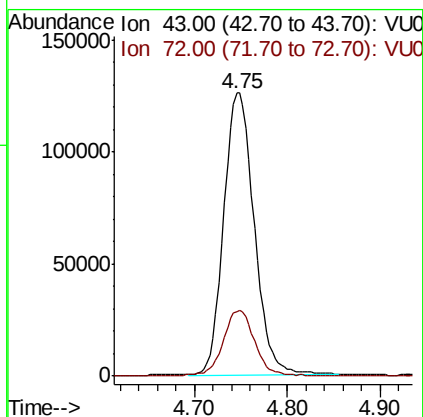
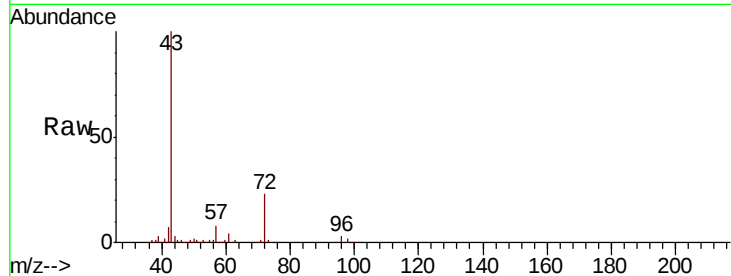




#22
 2-Butanone
 Concen: 94.912 ug/L
 RT: 4.75 min Scan# 1059
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

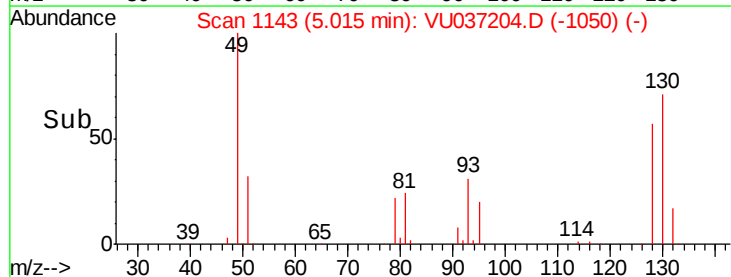
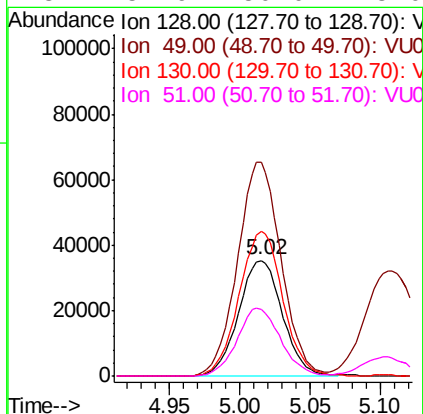
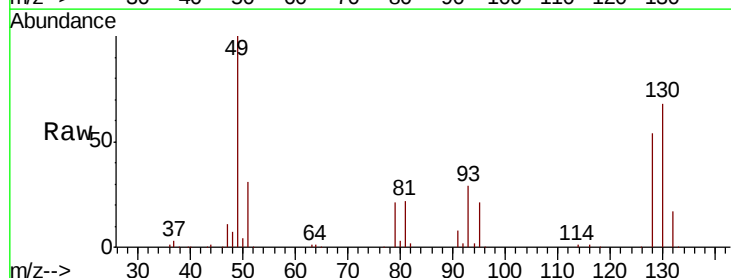
Instrument :
 MSVOA_U
 ClientSampled :

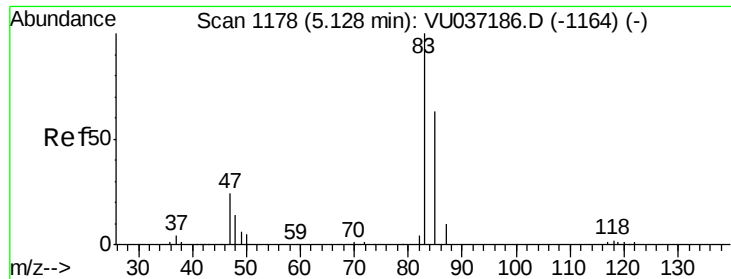
Tot Ion: 43 Resp: 288403
 Ion Ratio Lower Upper
 43 100
 72 24.2 12.3 36.9



#23
 Bromochloromethane
 Concen: 49.313 ug/L
 RT: 5.02 min Scan# 1143
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

Tgt Ion:128 Resp: 76892
 Ion Ratio Lower Upper
 128 100
 49 184.2 128.4 238.5
 130 124.9 90.6 168.2
 51 57.9 50.0 75.0

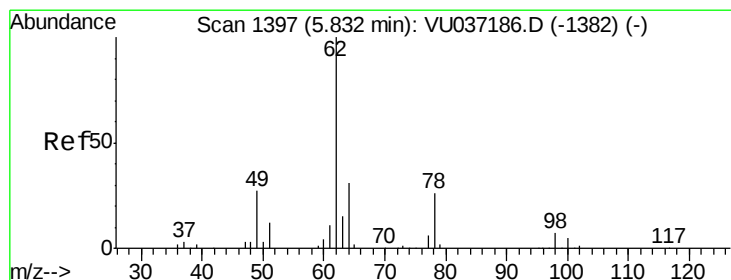
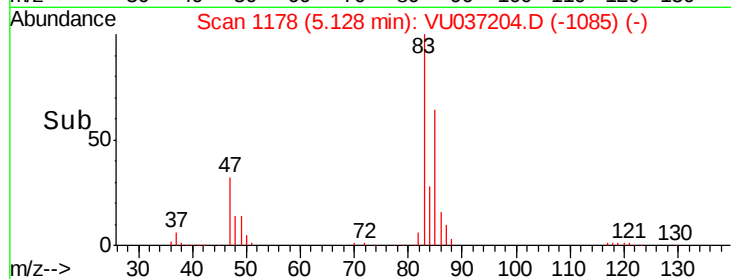
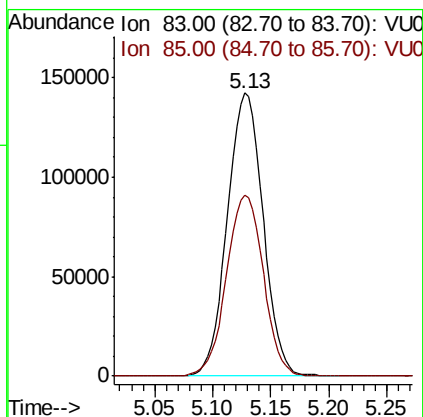
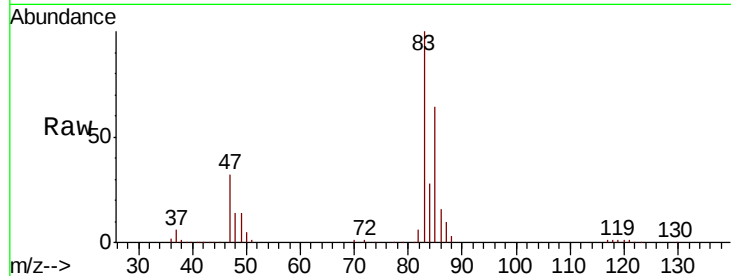




#25
Chloroform
Concen: 49.233 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

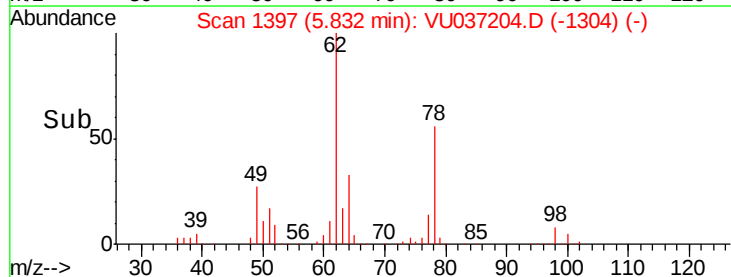
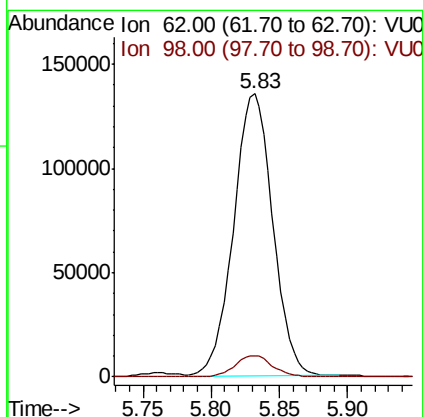
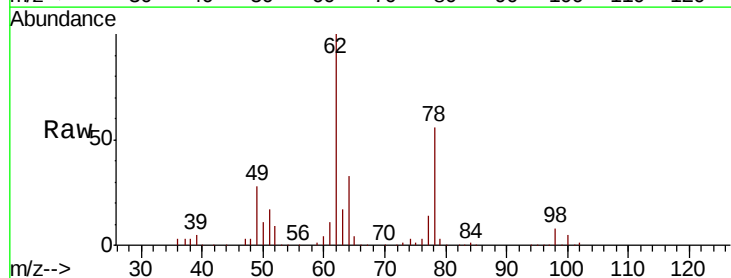
Instrument :
MSVOA_U
ClientSampleId :

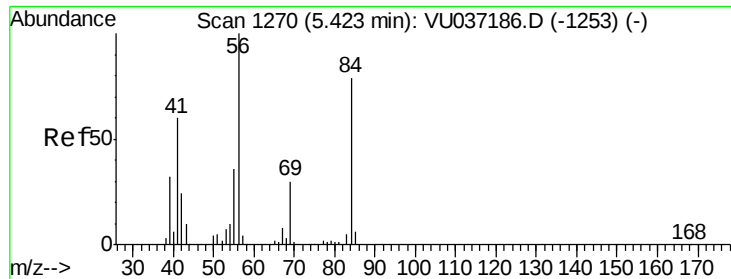
Tot Ion: 83 Resp: 304522
Ion Ratio Lower Upper
83 100
85 64.1 45.0 83.6



#27
1,2-Dichloroethane
Concen: 48.870 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

Tgt Ion: 62 Resp: 269335
Ion Ratio Lower Upper
62 100
98 7.5 5.6 8.4

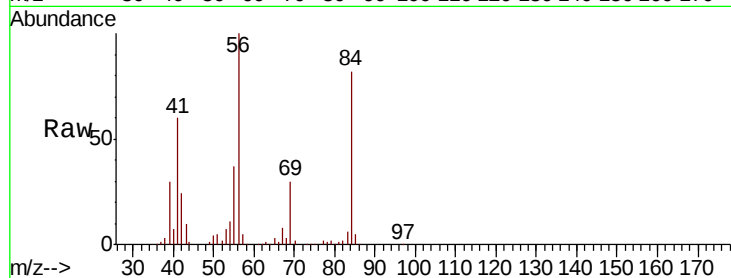




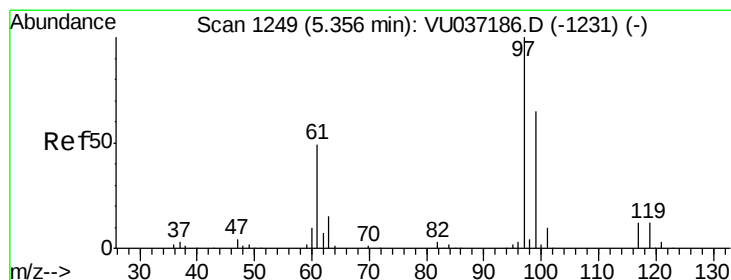
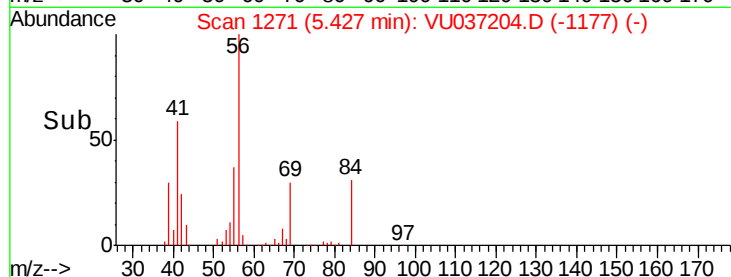
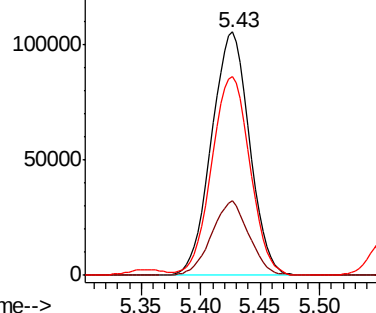
#29
Cyclohexane
Concen: 48.897 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 56 Resp: 234070
Ion Ratio Lower Upper
56 100
69 30.0 23.9 35.9
84 82.0 64.0 96.0

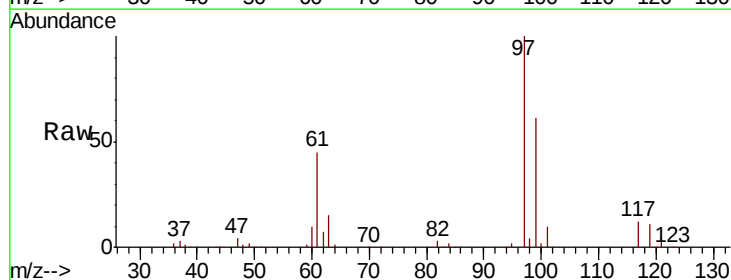


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

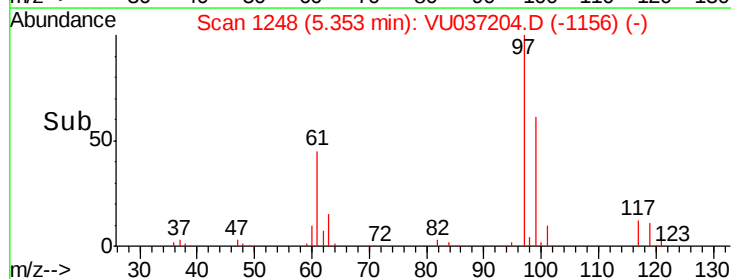
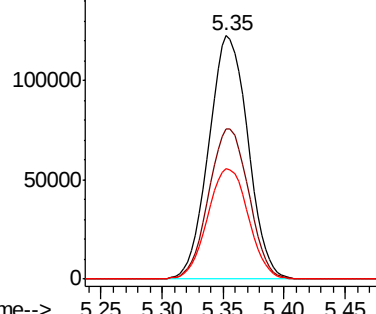


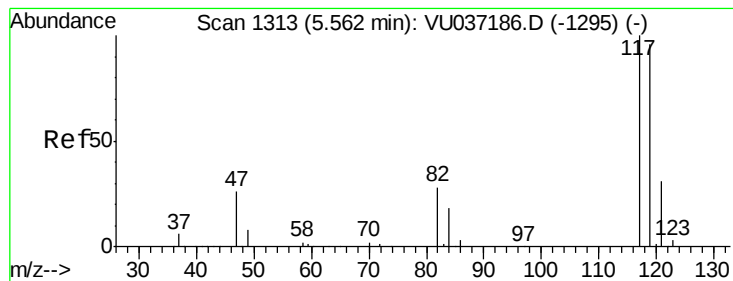
#30
1,1,1-Trichloroethane
Concen: 50.798 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

Tgt Ion: 97 Resp: 273022
Ion Ratio Lower Upper
97 100
99 63.0 51.4 77.0
61 47.4 39.0 58.4



Abundance Ion 97.00 (96.70 to 97.70): VU0
Ion 99.00 (98.70 to 99.70): VU0
Ion 61.05 (60.75 to 61.75): VU0





#31

Carbon tetrachloride

Concen: 50.444 ug/L

RT: 5.56 min Scan# 1313

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

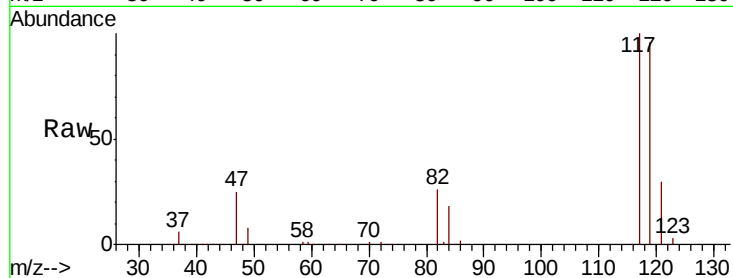
ClientSampleId :

Tot Ion:117 Resp: 239552

Ion Ratio Lower Upper

117 100

119 97.5 76.8 115.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

5.56

120000

100000

80000

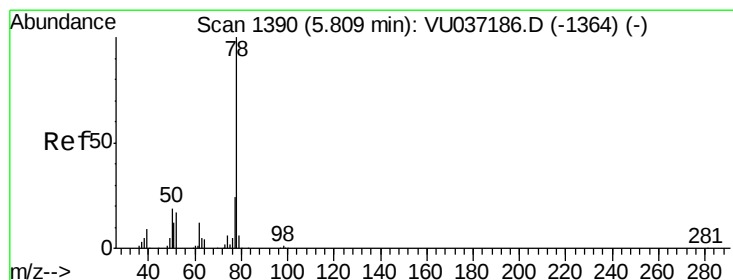
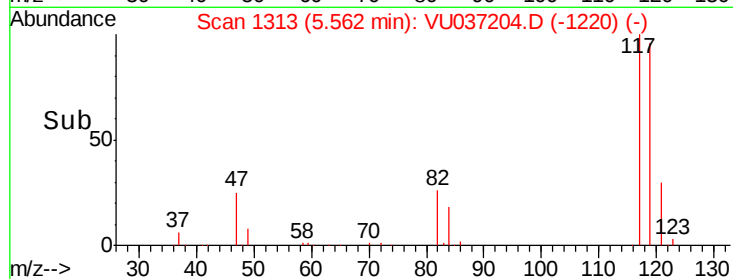
60000

40000

20000

0

Time--> 5.45 5.50 5.55 5.60 5.65



#33

Benzene

Concen: 49.981 ug/L

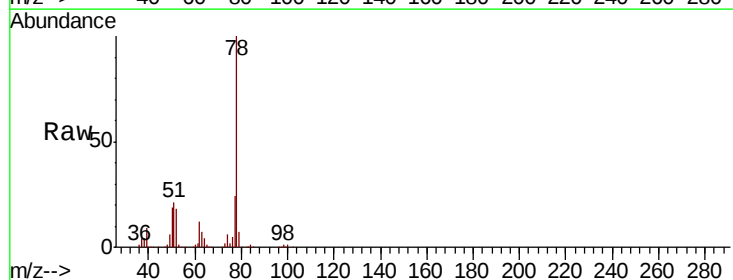
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Tgt Ion: 78 Resp: 596528



Abundance Ion 78.00 (77.70 to 78.70): VU0

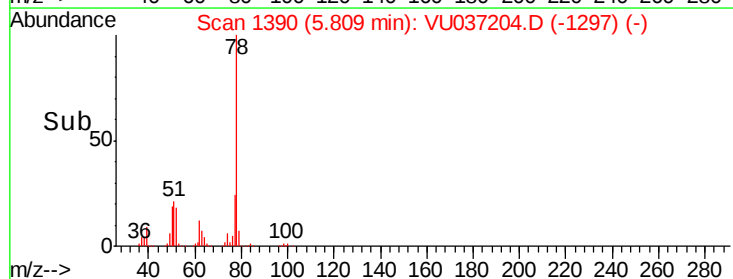
300000

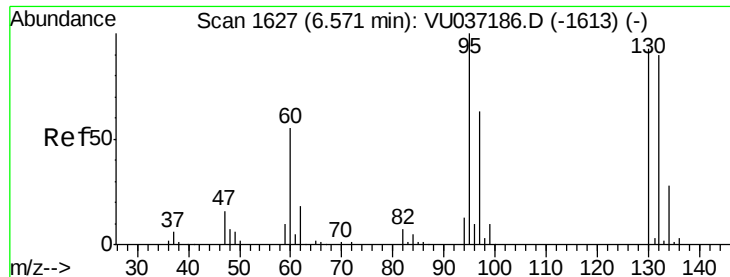
200000

100000

0

Time--> 5.70 5.80 5.90





#34

Trichloroethene

Concen: 50.853 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 157717

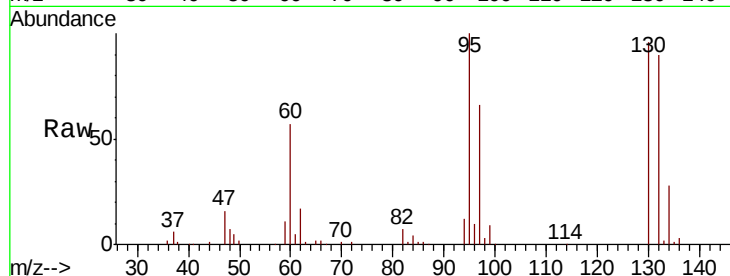
Ion Ratio Lower Upper

95 100

97 65.7 43.8 81.4

132 89.9 62.6 116.3

130 96.1 64.8 120.4

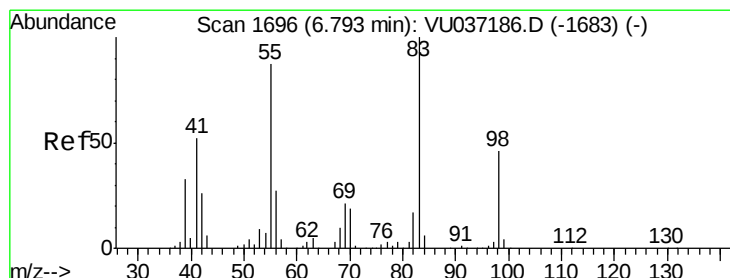
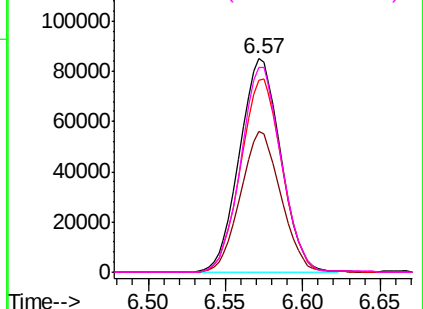
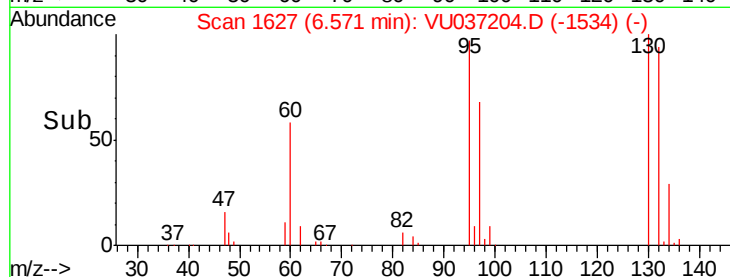


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 49.164 ug/L

RT: 6.79 min Scan# 1696

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

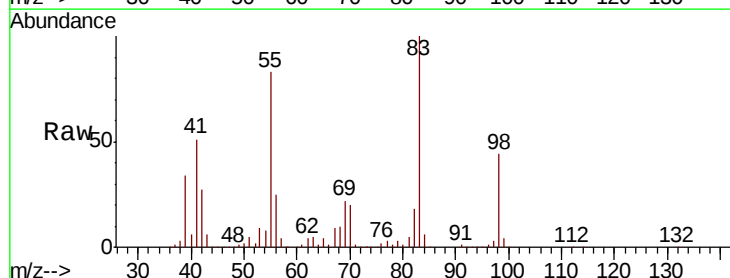
Tgt Ion: 83 Resp: 230849

Ion Ratio Lower Upper

83 100

55 84.2 68.2 102.2

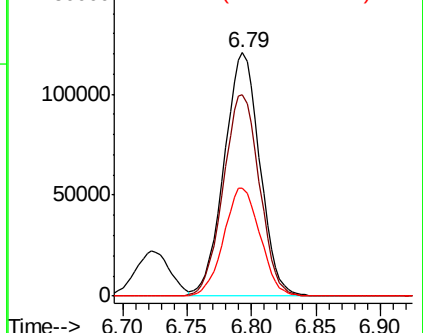
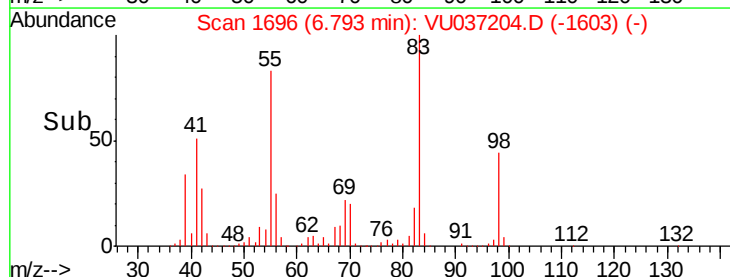
98 45.4 36.4 54.6

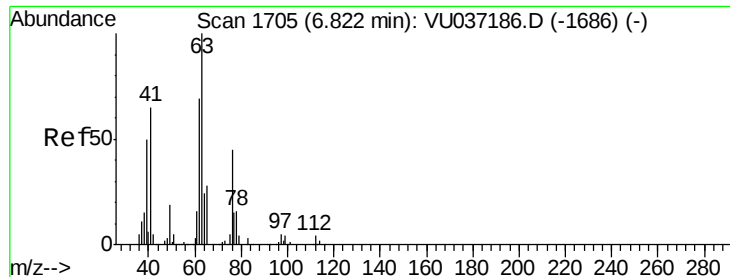


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 49.153 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

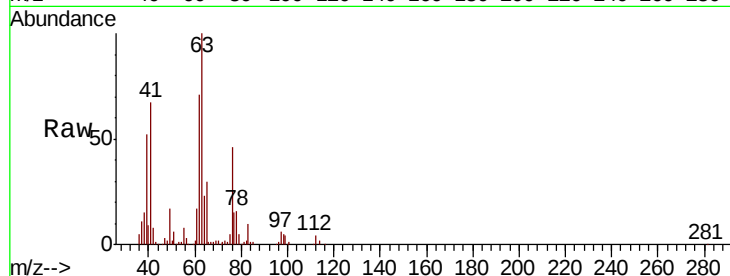
ClientSampleId :

Tot Ion: 63 Resp: 166754

Ion Ratio Lower Upper

63 100

112 3.8 3.1 4.7



Abundance Ion 63.00 (62.70 to 63.70): VU037186.D (-1686) (-)

Ion 112.00 (111.70 to 112.70): VU037186.D (-1686) (-)

6.82

100000

80000

60000

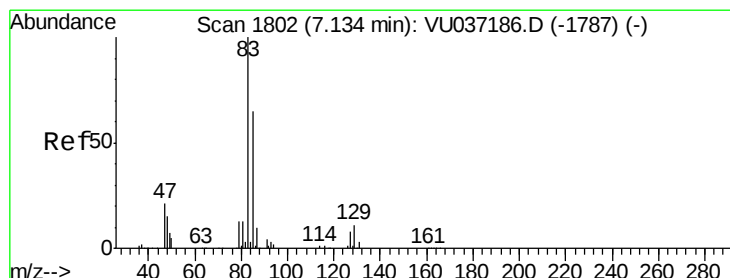
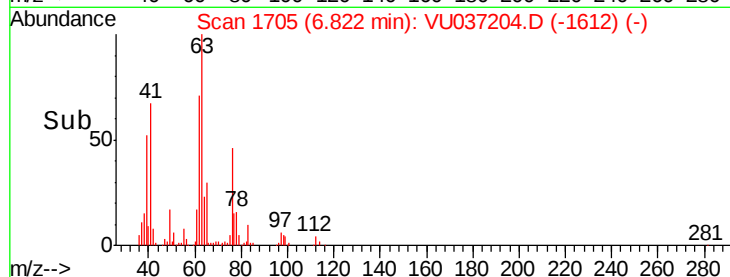
40000

20000

0

6.70 6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 48.738 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

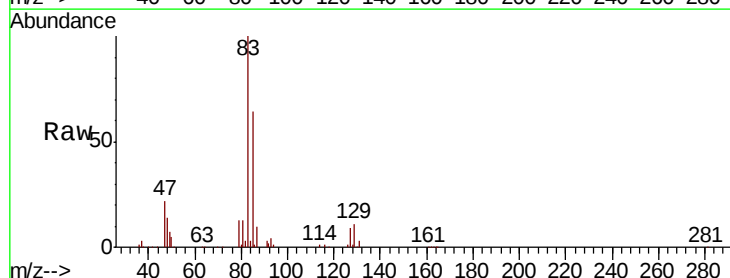
Tgt Ion: 83 Resp: 231162

Ion Ratio Lower Upper

83 100

85 64.1 45.7 84.9

127 8.8 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VU037186.D (-1787) (-)

Ion 85.00 (84.70 to 85.70): VU037186.D (-1787) (-)

Ion 127.00 (126.70 to 127.70): VU037186.D (-1787) (-)

7.13

150000

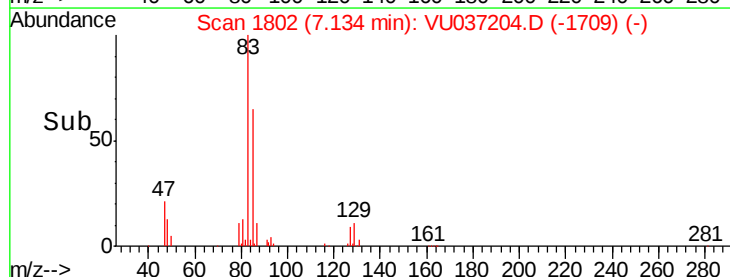
100000

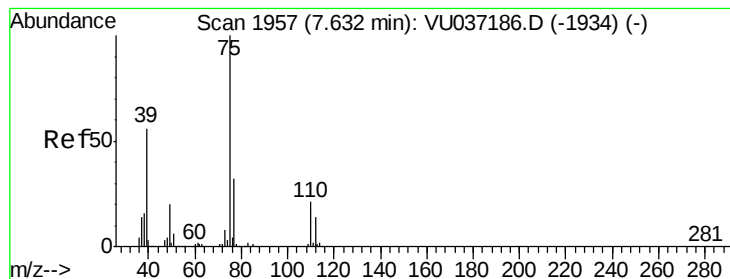
50000

0

7.05 7.10 7.15 7.20

Time-->



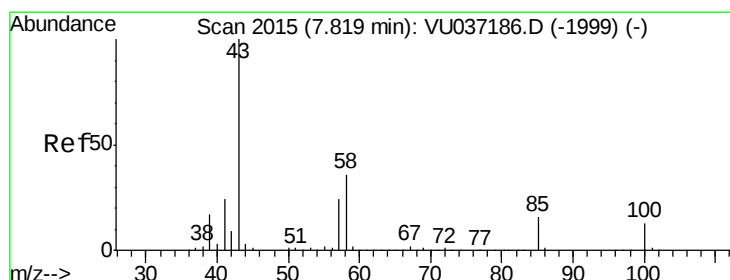
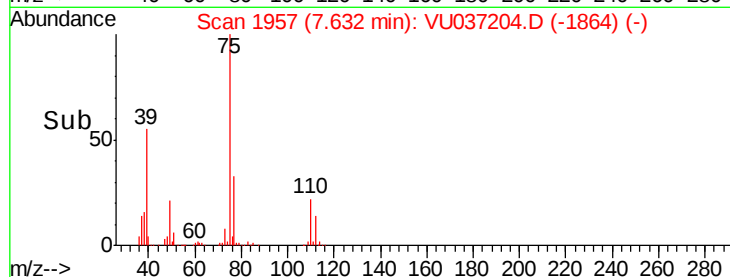
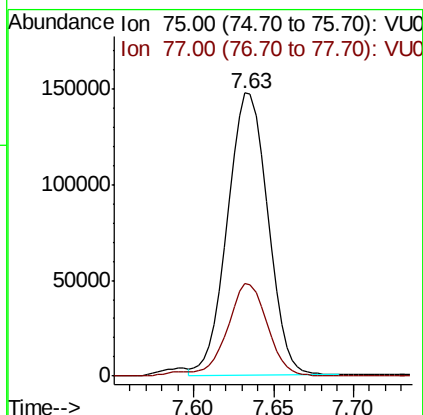
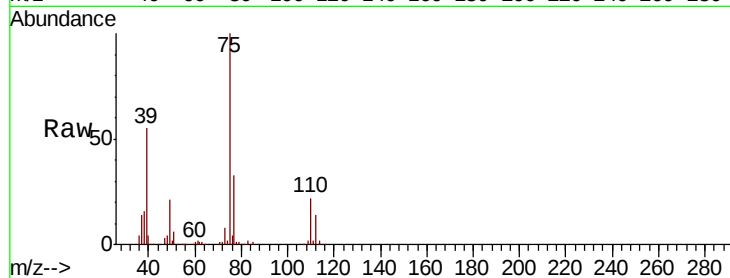


#39

cis-1,3-Dichloropropene
 Concen: 48.374 ug/L
 RT: 7.63 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

Instrument :
 MSVOA_U
 ClientSampleId :

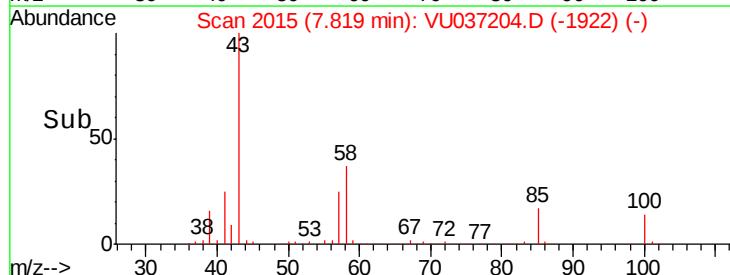
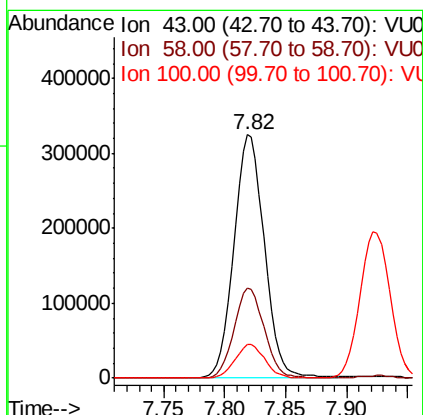
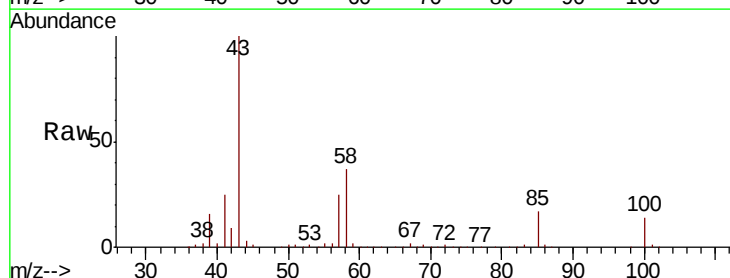
Tot Ion: 75 Resp: 254464
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.5 41.9

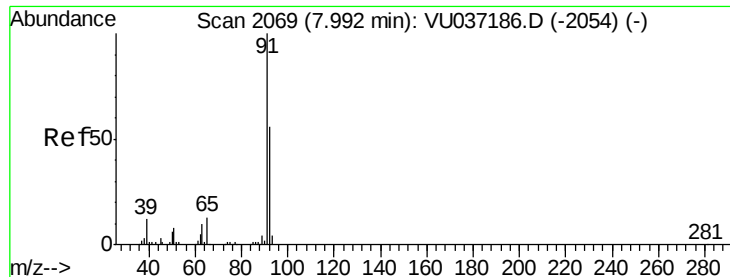


#40

4-Methyl-2-pentanone
 Concen: 102.140 ug/L
 RT: 7.82 min Scan# 2015
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

Tgt Ion: 43 Resp: 564080
 Ion Ratio Lower Upper
 43 100
 58 36.5 29.3 43.9
 100 13.6 10.3 15.5





#42

Toluene

Concen: 50.814 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

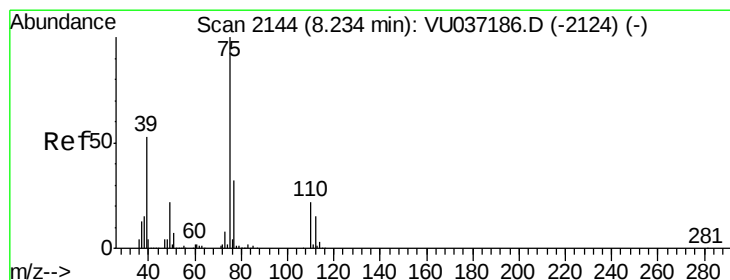
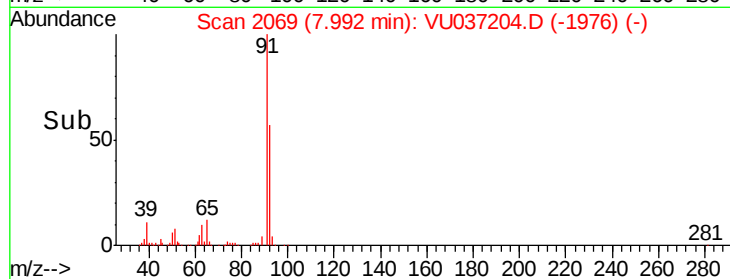
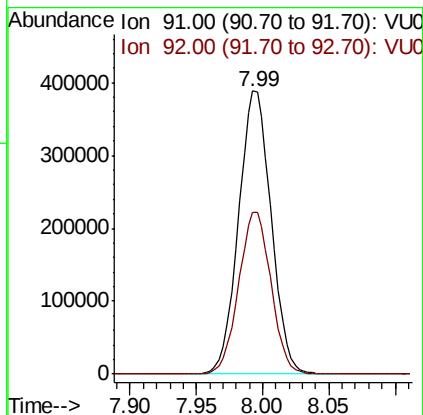
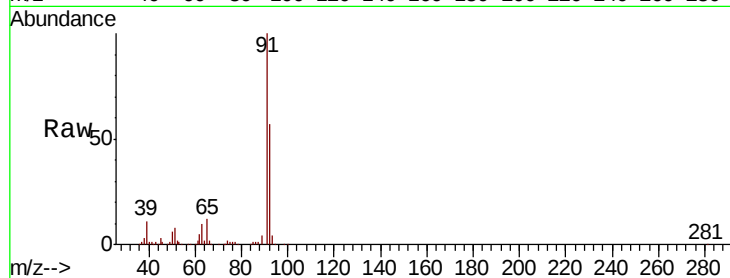
ClientSampleId :

Tot Ion: 91 Resp: 662276

Ion Ratio Lower Upper

91 100

92 57.1 39.1 72.5



#44

trans-1,3-Dichloropropene

Concen: 50.435 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037204.D

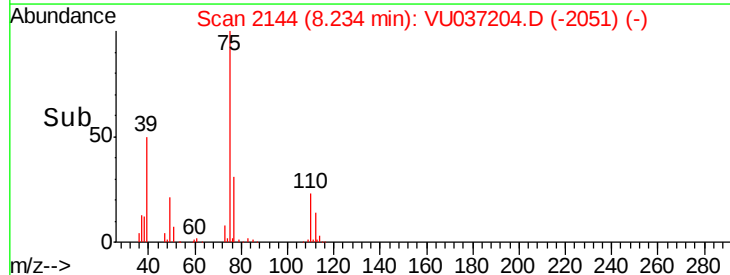
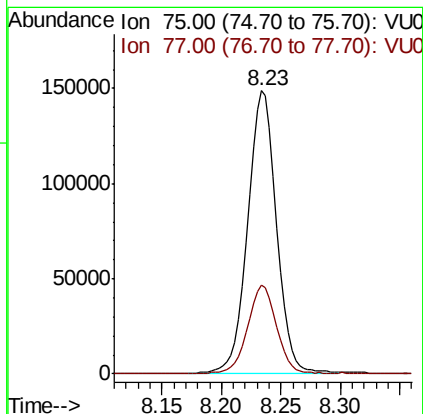
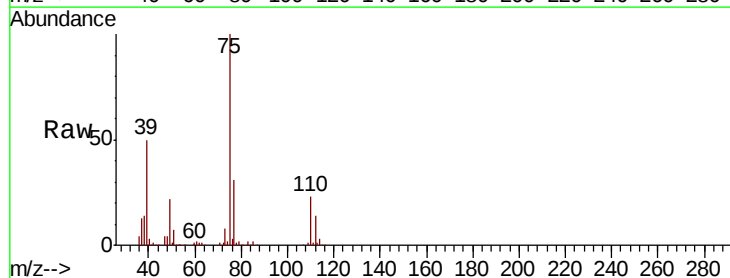
Acq: 12 Mar 2020 21:10

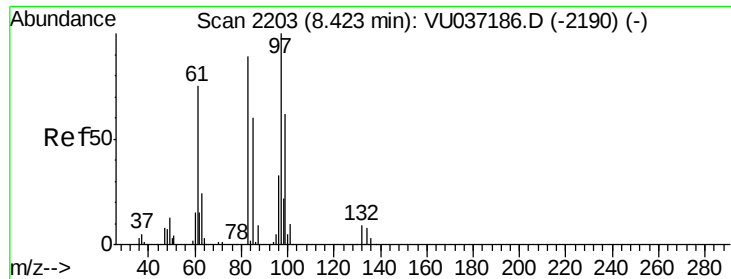
Tgt Ion: 75 Resp: 250493

Ion Ratio Lower Upper

75 100

77 31.4 22.1 41.1

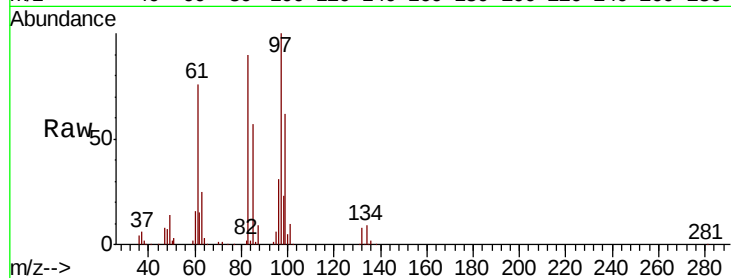




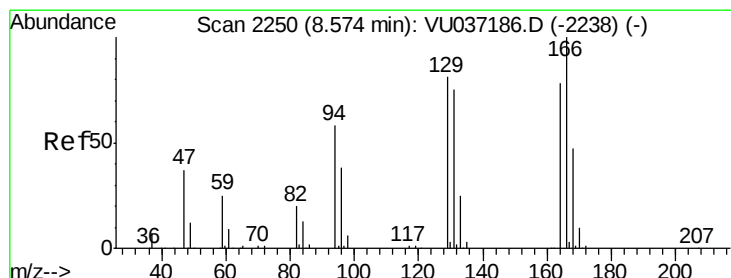
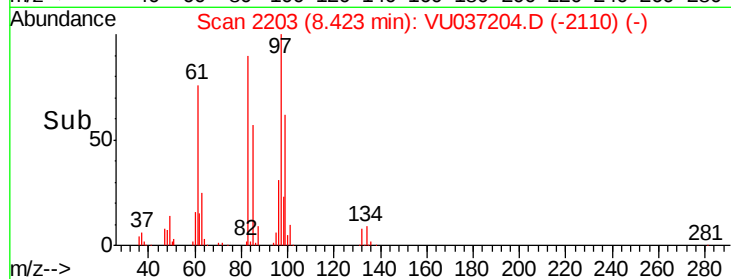
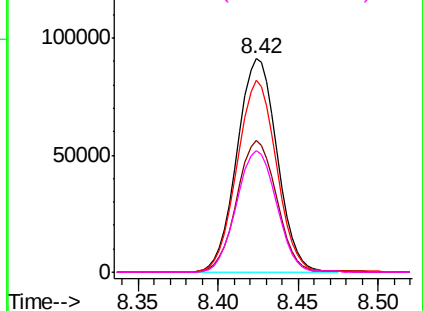
#45
 1,1,2-Trichloroethane
 Concen: 50.646 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:	97	Resp:	156448
Ion	Ratio	Lower	Upper
97	100		
99	61.6	43.5	80.9
83	89.8	62.4	116.0
85	57.1	41.9	77.7

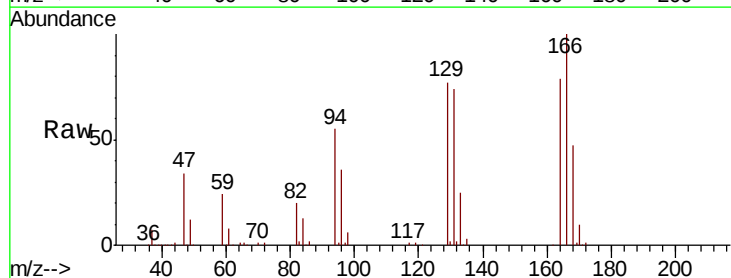


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

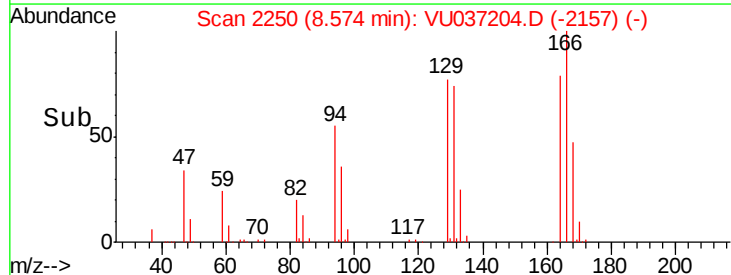
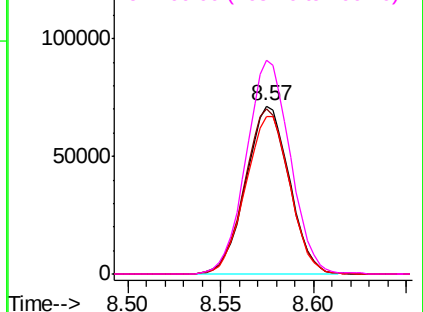


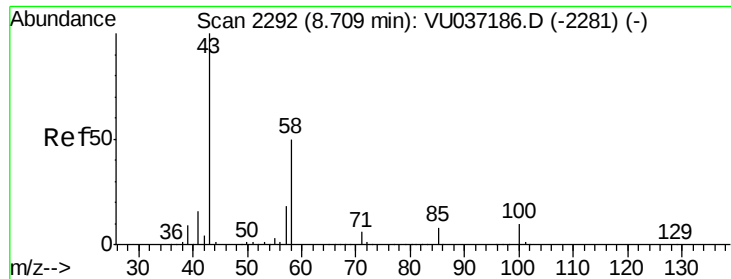
#46
 Tetrachloroethene
 Concen: 50.685 ug/L
 RT: 8.57 min Scan# 2250
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

Tgt Ion:	164	Resp:	116784
Ion	Ratio	Lower	Upper
164	100		
129	98.3	72.4	134.5
131	93.9	67.1	124.7
166	127.2	89.5	166.1



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V

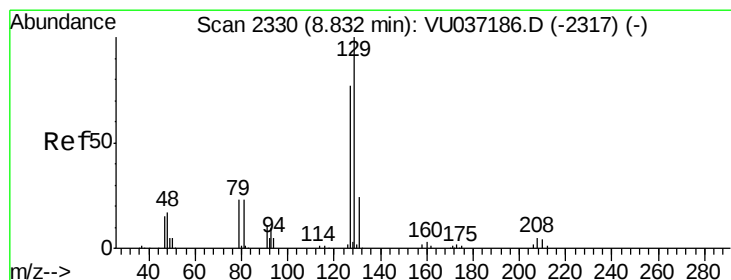
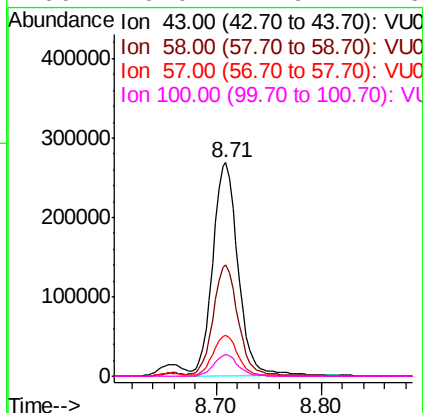
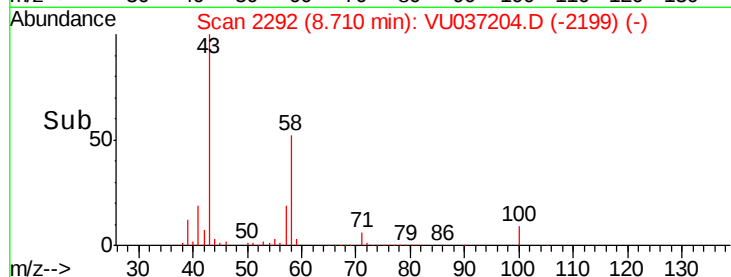
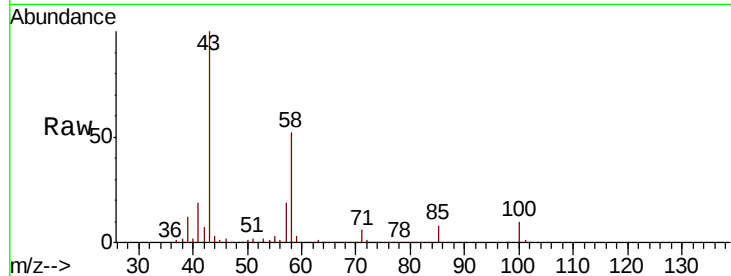




#48
2-Hexanone
Concen: 102.875 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

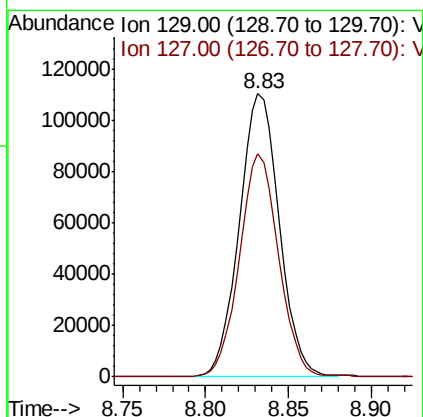
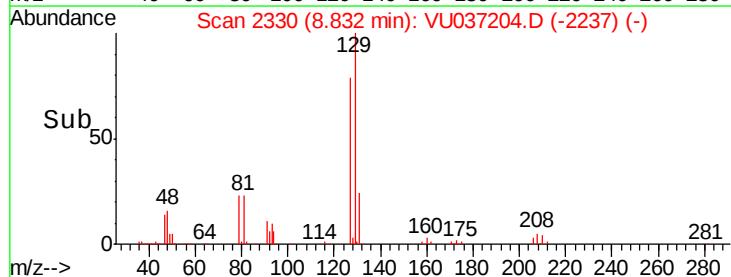
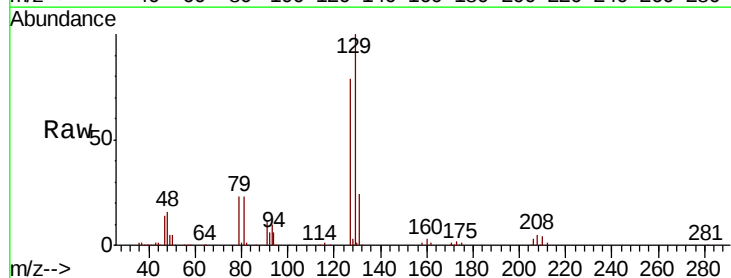
Instrument :
MSVOA_U
ClientSampleId :

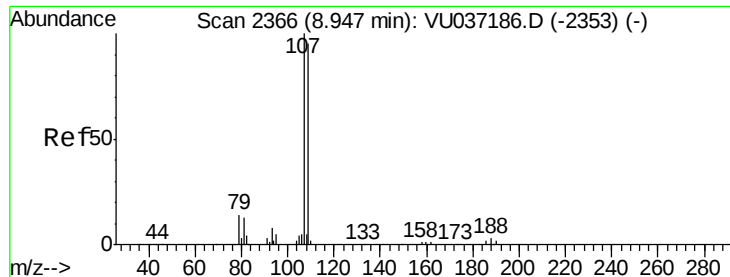
Tot Ion: 43 Resp: 447725
Ion Ratio Lower Upper
43 100
58 51.0 39.8 59.6
57 18.8 14.5 21.7
100 10.0 7.9 11.9



#49
Dibromochloromethane
Concen: 50.915 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

Tgt Ion: 129 Resp: 185034
Ion Ratio Lower Upper
129 100
127 78.6 53.8 100.0

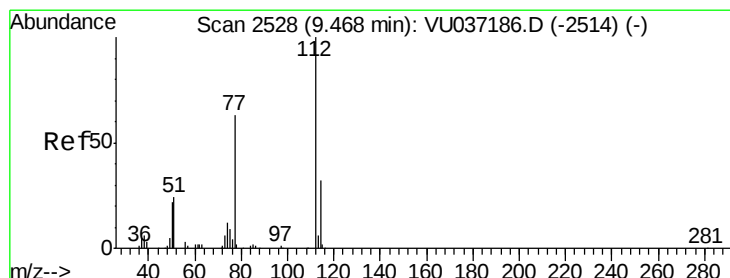
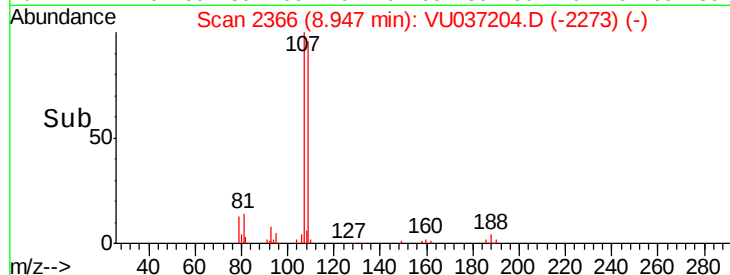
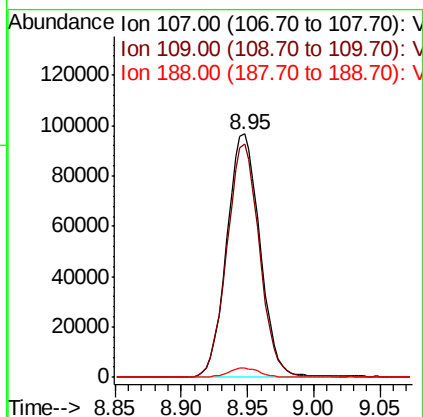
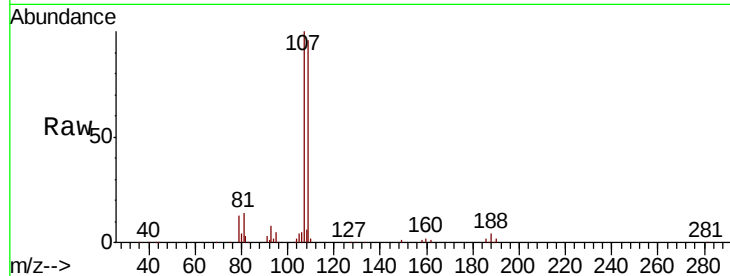




#50
 1,2-Dibromoethane
 Concen: 50.591 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

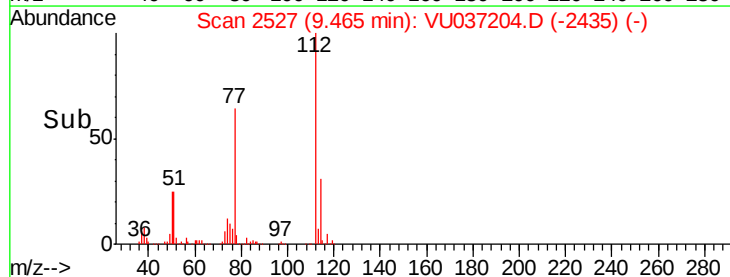
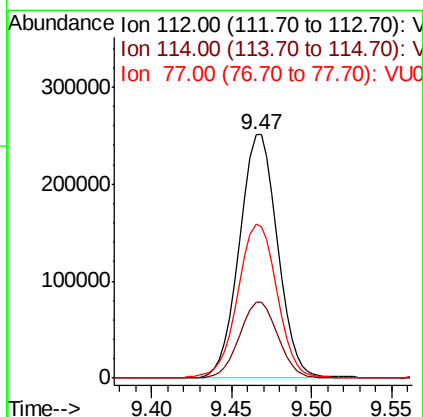
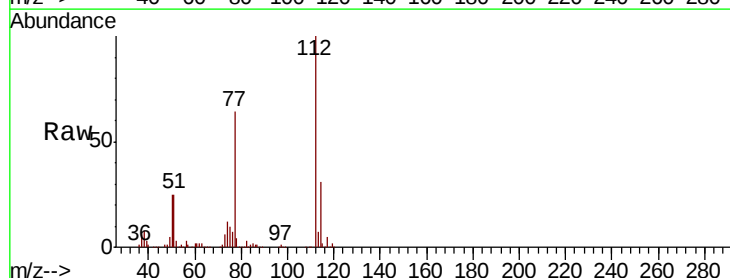
Instrument :
 MSVOA_U
 ClientSampleId :

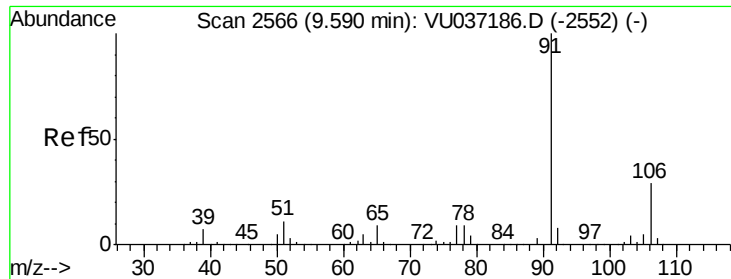
Tot Ion	Ratio	Lower	Upper
107	100		
109	95.6	66.5	123.5
188	3.7	2.6	4.0



#51
 Chlorobenzene
 Concen: 49.905 ug/L
 RT: 9.47 min Scan# 2527
 Delta R.T. -0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.2	22.6	42.0
77	63.5	51.0	76.4

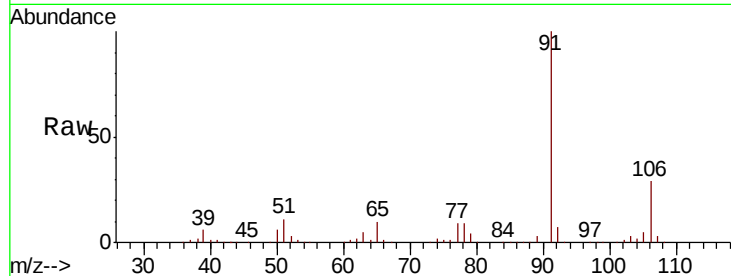




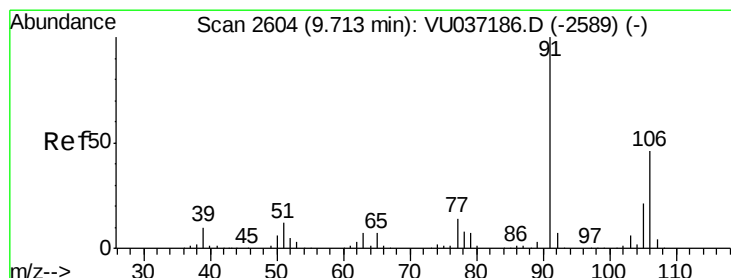
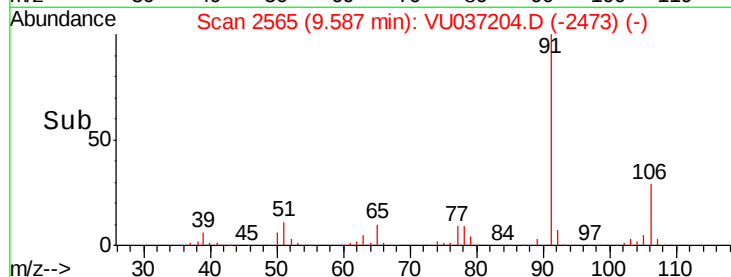
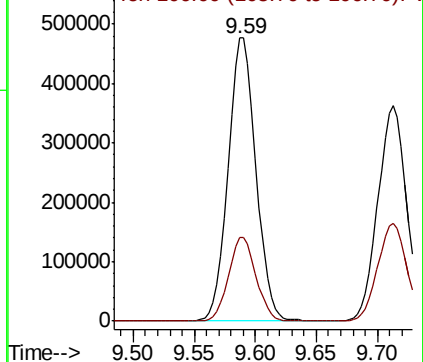
#52
Ethylbenzene
Concen: 50.315 ug/L
RT: 9.59 min Scan# 2565
Delta R.T. -0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

Instrument :
MSVOA_U
ClientSampleID :

Tot Ion: 91 Resp: 759330
Ion Ratio Lower Upper
91 100
106 29.5 20.2 37.6

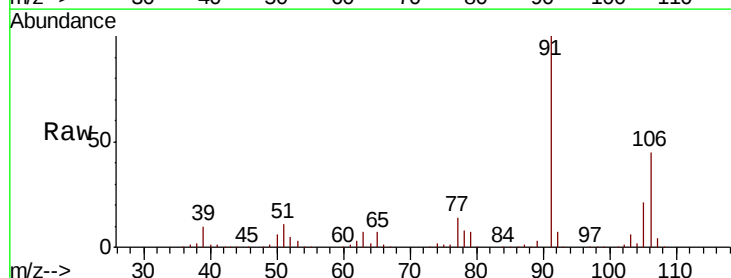


Abundance Ion 91.00 (90.70 to 91.70): VU037186.D (-2552) (-)
Ion 106.00 (105.70 to 106.70): VU037186.D (-2552) (-)

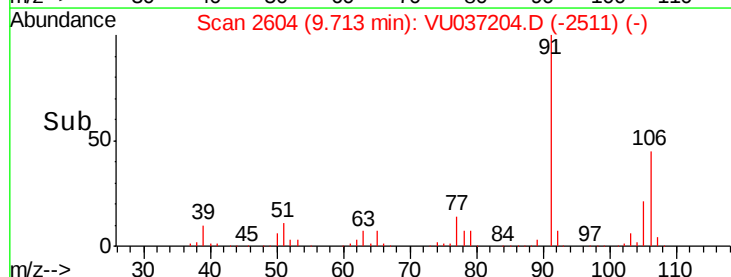
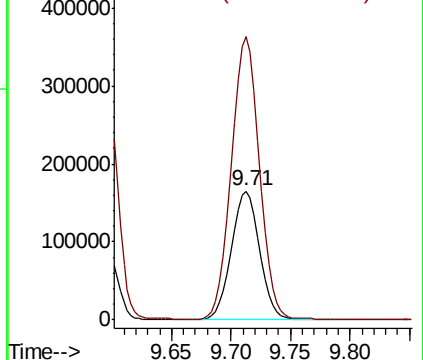


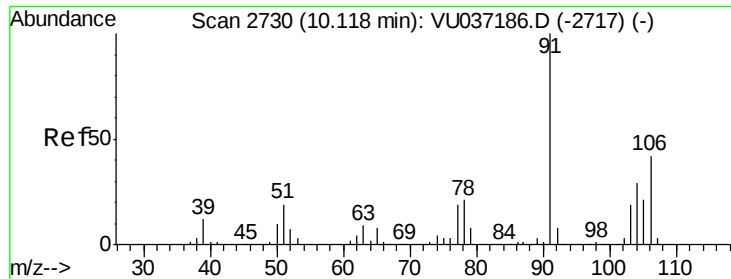
#53
m,p-Xylene
Concen: 51.133 ug/L
RT: 9.71 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VU037204.D
Acq: 12 Mar 2020 21:10

Tgt Ion: 106 Resp: 272938
Ion Ratio Lower Upper
106 100
91 220.2 154.0 286.0



Abundance Ion 106.00 (105.70 to 106.70): VU037186.D (-2589) (-)
Ion 91.00 (90.70 to 91.70): VU037186.D (-2589) (-)





#54

o-xylene

Concen: 50.052 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

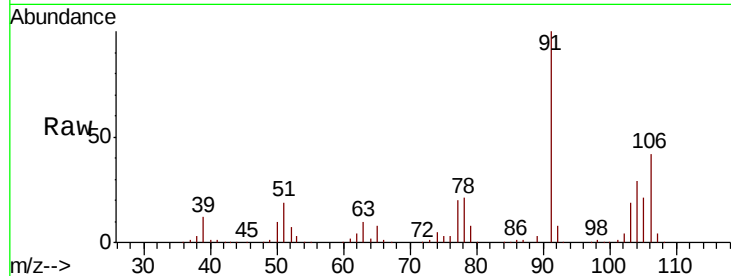
ClientSampleId :

Tot Ion:106 Resp: 263959

Ion Ratio Lower Upper

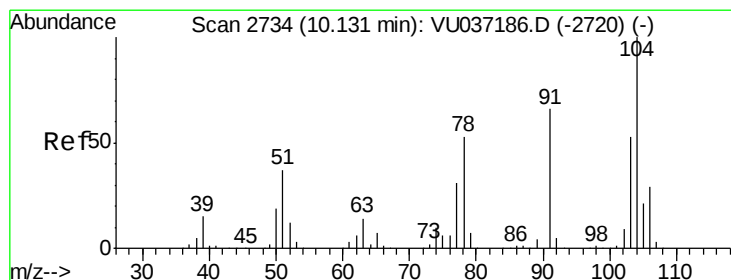
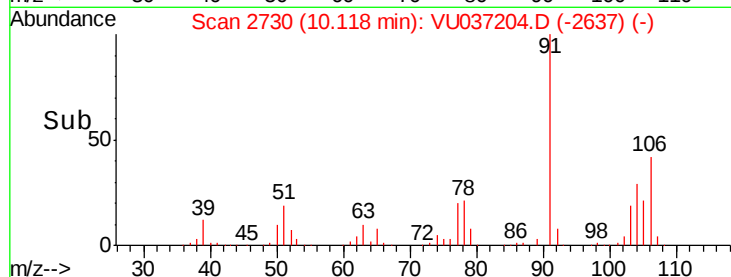
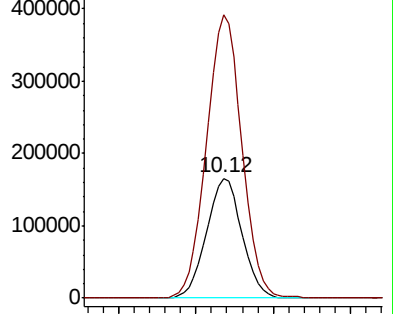
106 100

91 236.5 167.6 311.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 51.256 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU037204.D

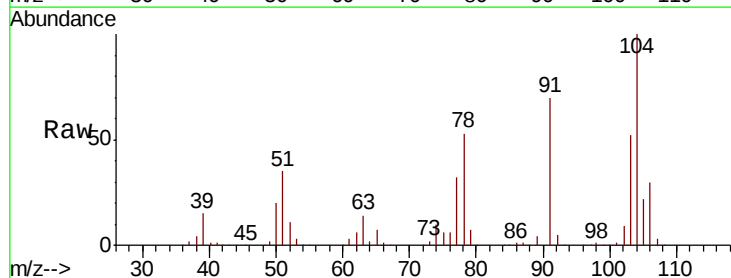
Acq: 12 Mar 2020 21:10

Tgt Ion:104 Resp: 458397

Ion Ratio Lower Upper

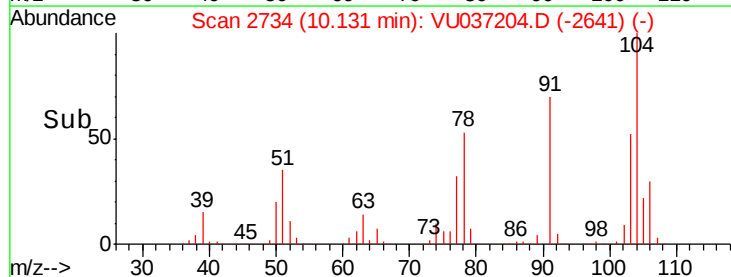
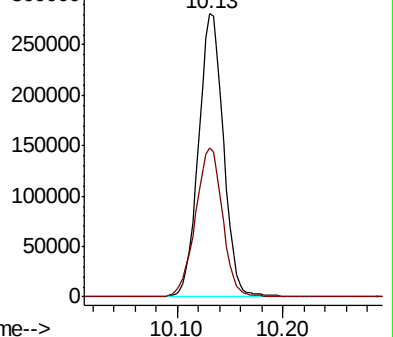
104 100

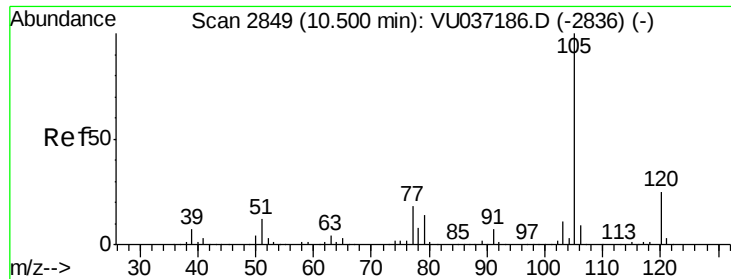
78 52.7 37.4 69.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.479 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

ClientSampleId :

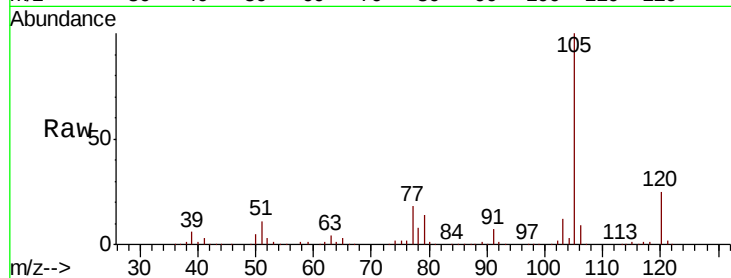
Tot Ion:105 Resp: 739921

Ion Ratio Lower Upper

105 100

120 25.1 19.9 29.9

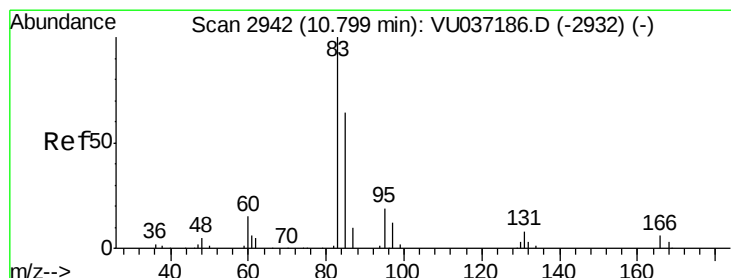
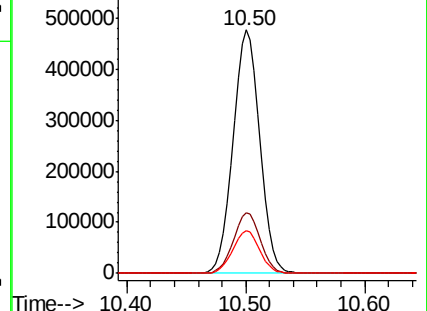
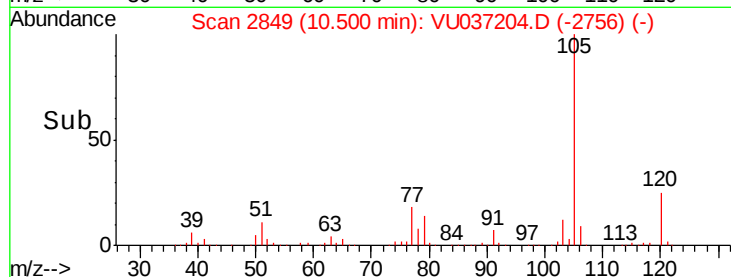
77 17.6 14.1 21.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 50.389 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

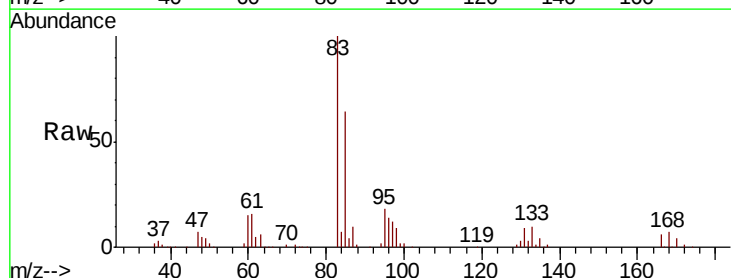
Tgt Ion: 83 Resp: 284125

Ion Ratio Lower Upper

83 100

85 63.8 45.8 85.2

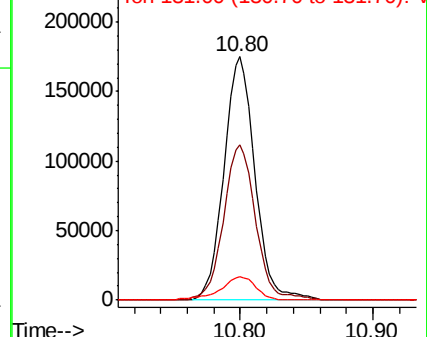
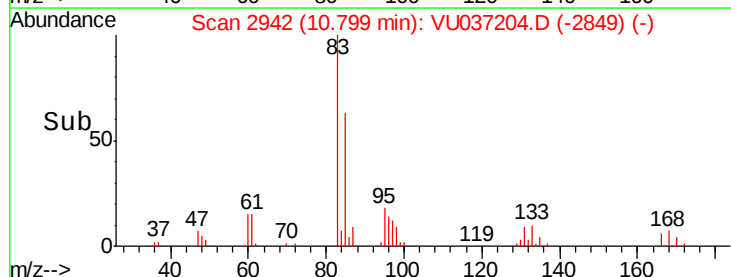
131 9.4 7.7 11.5

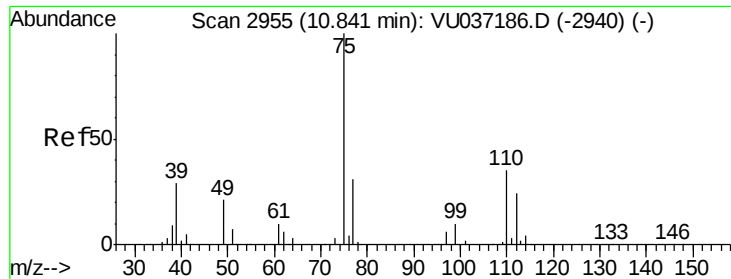


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.068 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

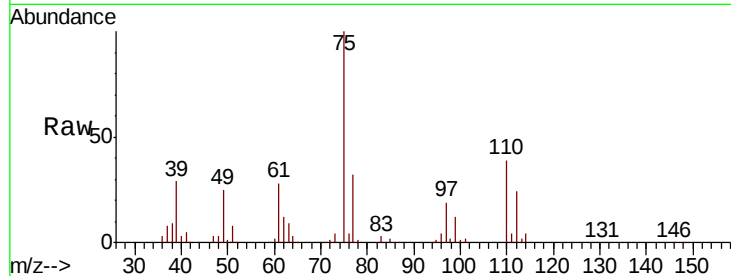
ClientSampleId :

Tot Ion: 75 Resp: 236120

Ion Ratio Lower Upper

75 100

77 32.2 25.0 37.6



Abundance Ion 75.00 (74.70 to 75.70): VU037186.D (-2940) (-)

Ion 77.00 (76.70 to 77.70): VU037186.D (-2940) (-)

10.84

150000

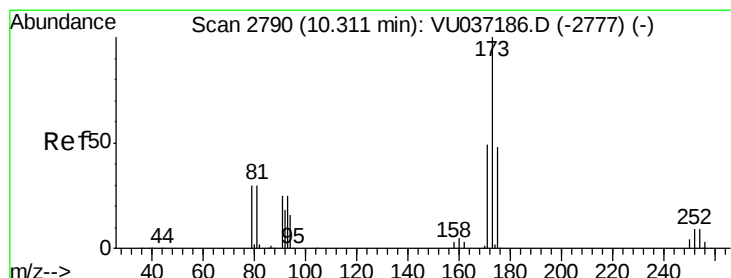
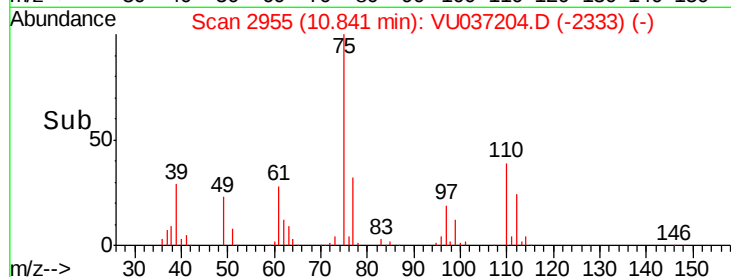
100000

50000

0

10.75 10.80 10.85 10.90

Time-->



#61

Bromoform

Concen: 49.094 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

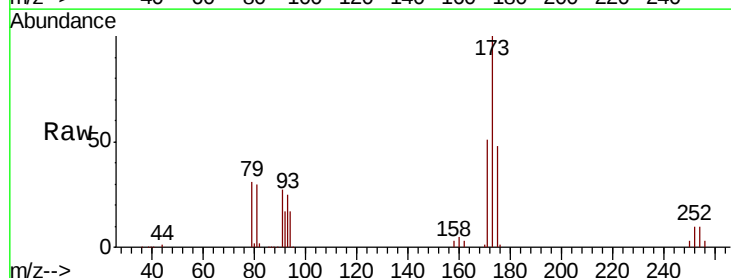
Tgt Ion: 173 Resp: 140941

Ion Ratio Lower Upper

173 100

175 48.9 38.3 57.5

254 9.5 7.6 11.4



Abundance Ion 173.00 (172.70 to 173.70): VU037186.D (-2777) (-)

Ion 175.00 (174.70 to 175.70): VU037186.D (-2777) (-)

Ion 254.00 (253.70 to 254.70): VU037186.D (-2777) (-)

10.31

100000

80000

60000

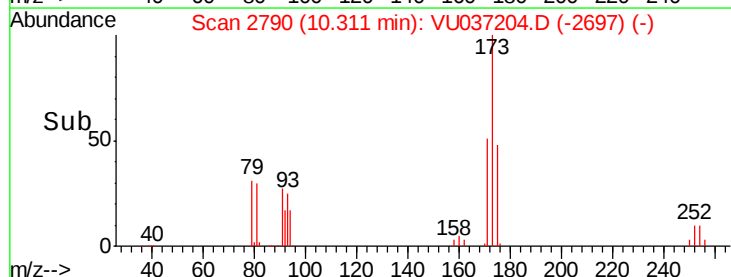
40000

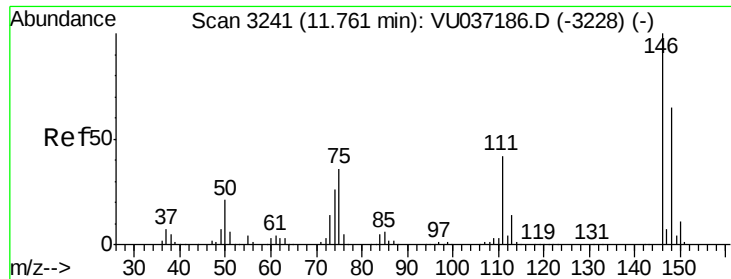
20000

0

10.25 10.30 10.35 10.40

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.491 ug/L

RT: 11.76 min Scan# 3241

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

ClientSampleId :

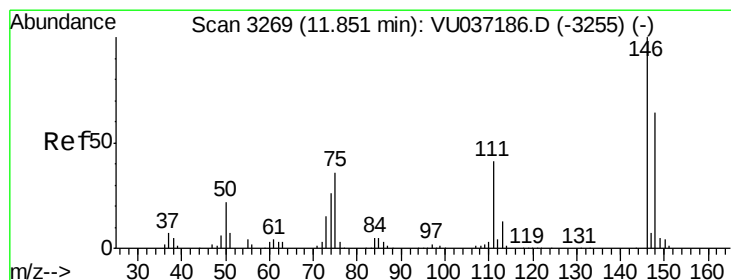
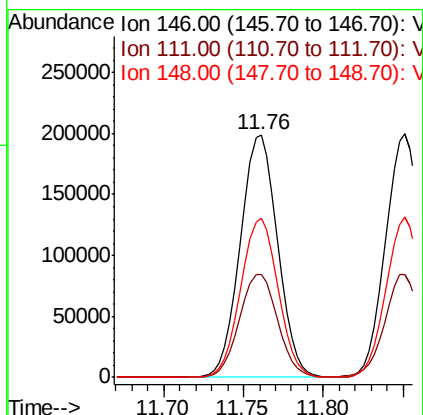
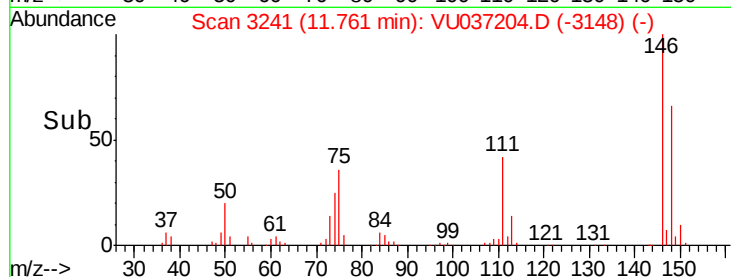
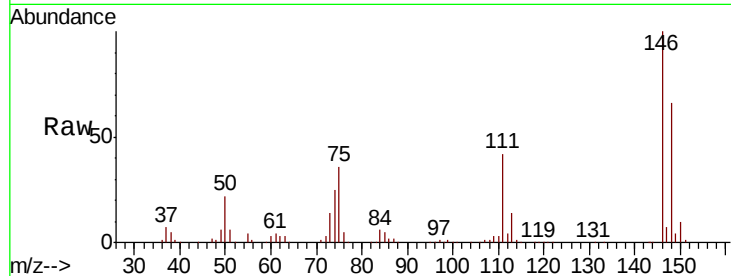
Tot Ion:146 Resp: 315914

Ion Ratio Lower Upper

146 100

111 42.4 29.2 54.2

148 65.5 45.8 85.0



#63

1,4-Dichlorobenzene

Concen: 48.356 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

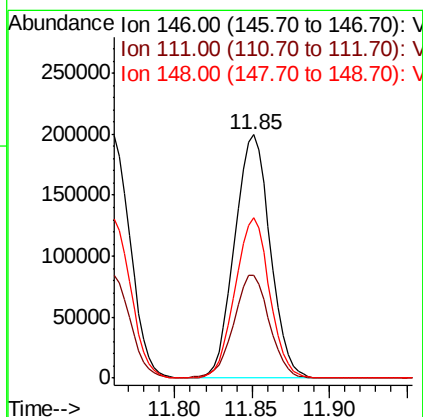
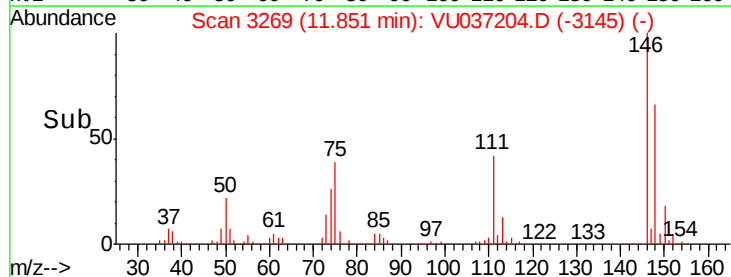
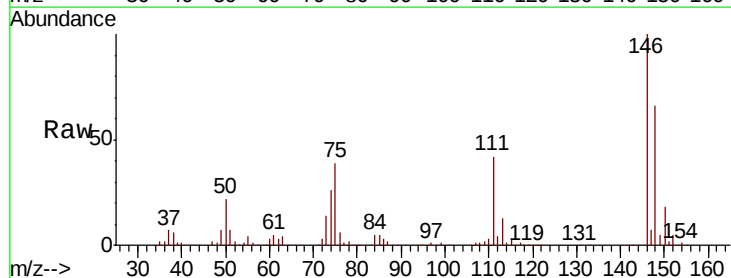
Tgt Ion:146 Resp: 318406

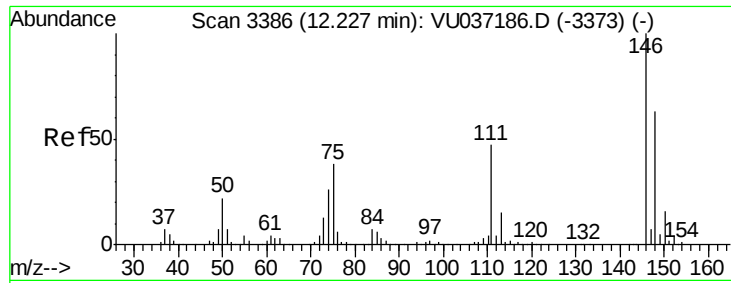
Ion Ratio Lower Upper

146 100

111 42.4 28.5 52.9

148 65.7 44.8 83.2

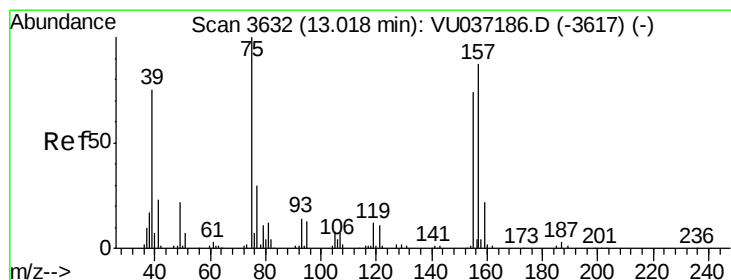
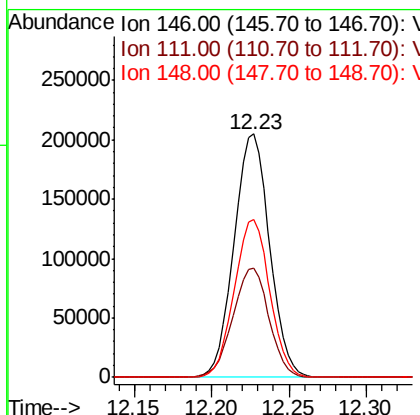
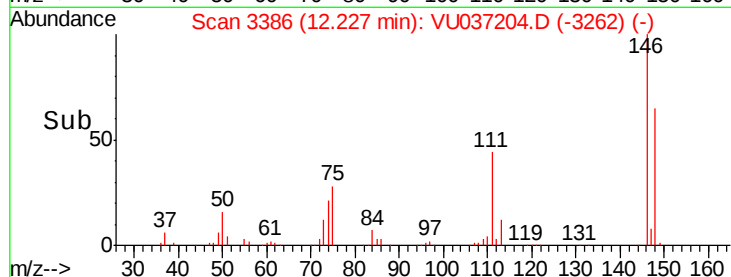
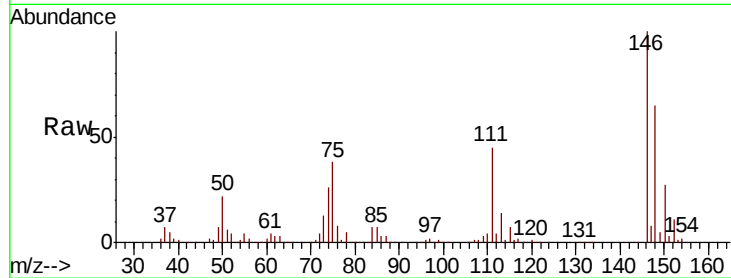




#65
 1,2-Dichlorobenzene
 Concen: 49.089 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

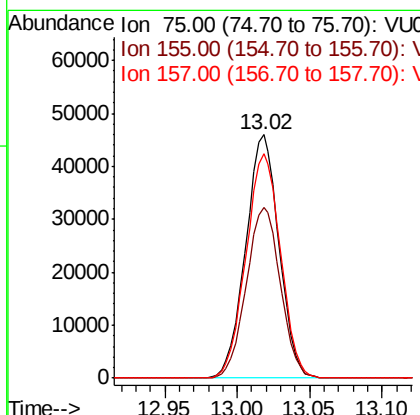
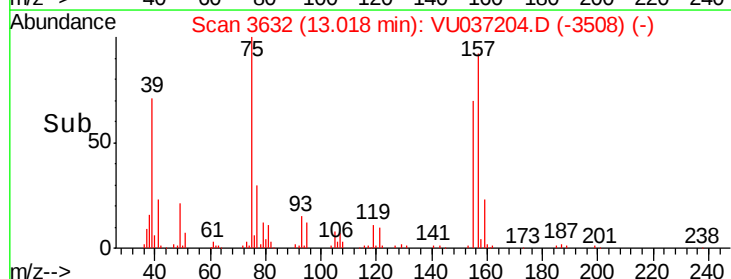
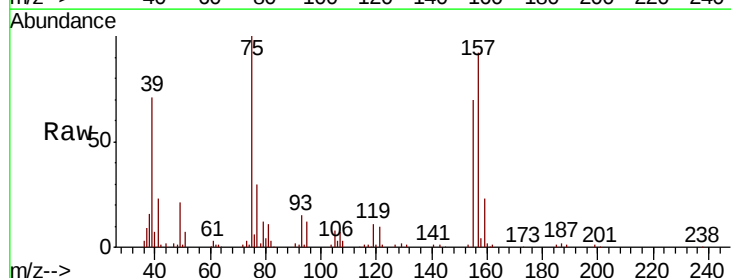
Instrument :
 MSVOA_U
 ClientSampleId :

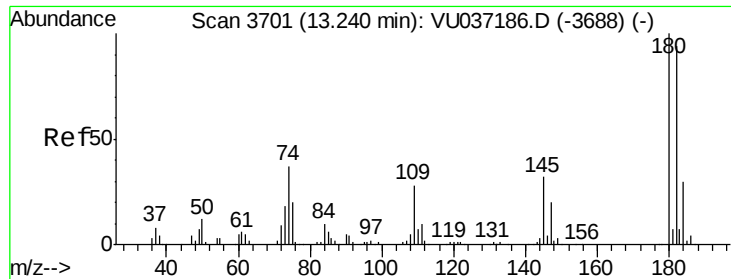
Tot Ion:146 Resp: 326641
 Ion Ratio Lower Upper
 146 100
 111 45.0 37.4 56.2
 148 65.1 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.046 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

Tgt Ion: 75 Resp: 73417
 Ion Ratio Lower Upper
 75 100
 155 70.1 59.0 88.4
 157 92.2 69.9 104.9

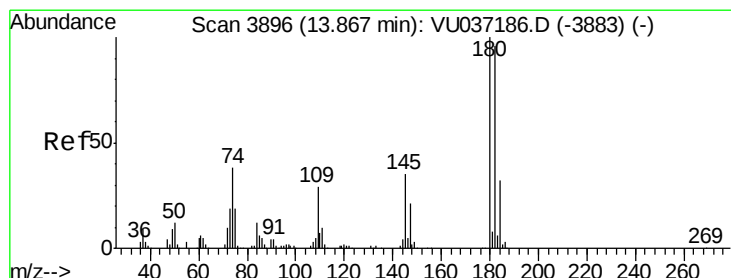
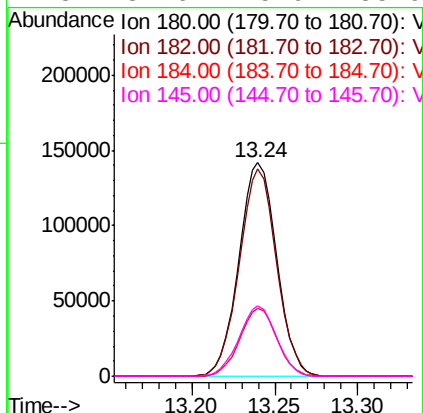
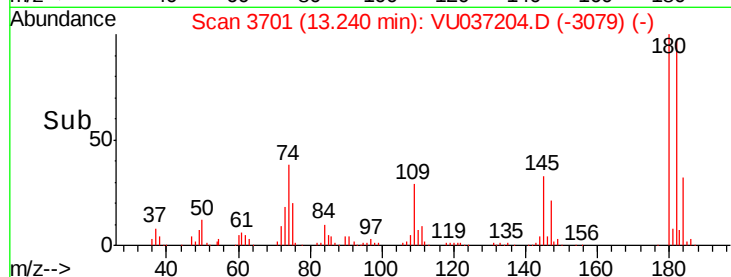
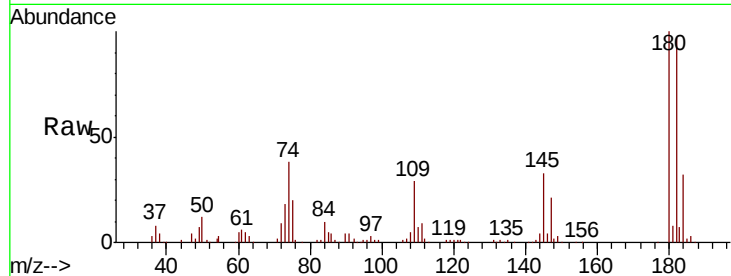




#67
 1,3,5-Trichlorobenzene
 Concen: 47.243 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

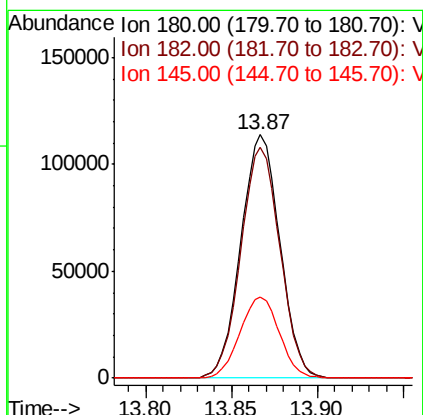
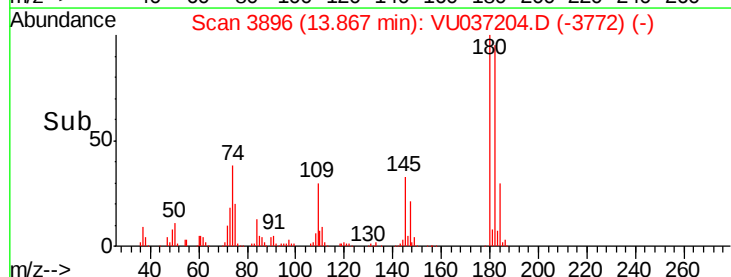
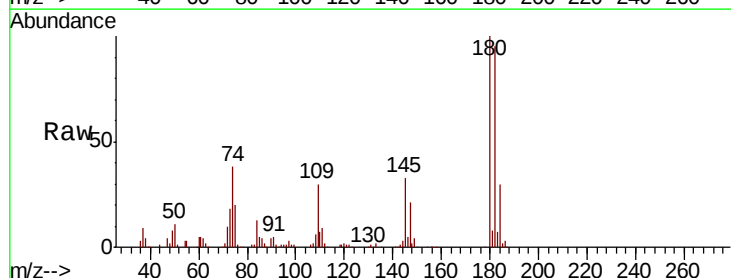
Instrument :
 MSVOA_U
 ClientSampleId :

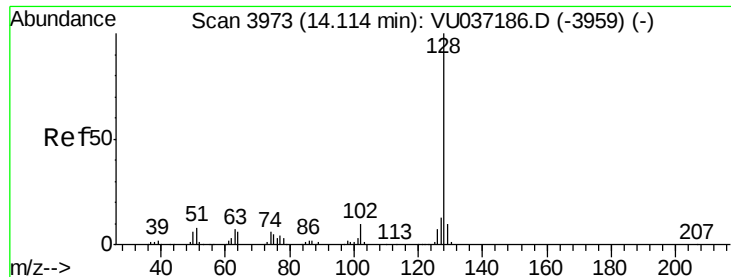
Tot Ion:180	Resp:	224306
Ion Ratio	Lower	Upper
180	100	
182	95.9	75.8 113.8
184	31.3	24.5 36.7
145	32.6	25.9 38.9



#68
 1,2,4-trichlorobenzene
 Concen: 48.610 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU037204.D
 Acq: 12 Mar 2020 21:10

Tgt Ion:180	Resp:	180219
Ion Ratio	Lower	Upper
180	100	
182	95.1	75.9 113.9
145	33.5	26.7 40.1





#69

Naphthalene

Concen: 48.783 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. 0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

Instrument :

MSVOA_U

ClientSampleId :

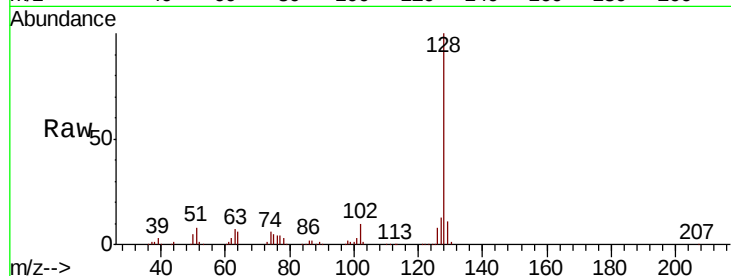
Tot Ion:128 Resp: 274285

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.4

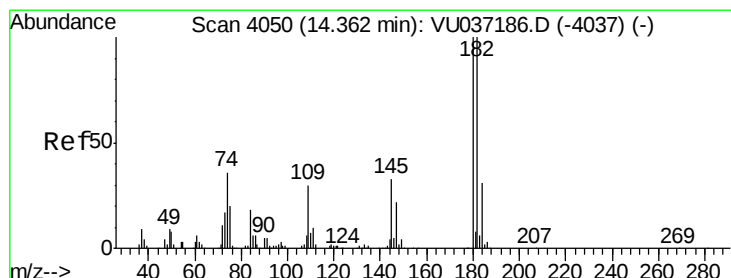
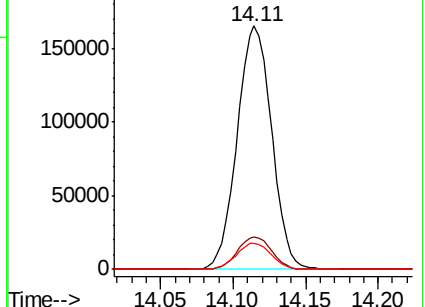
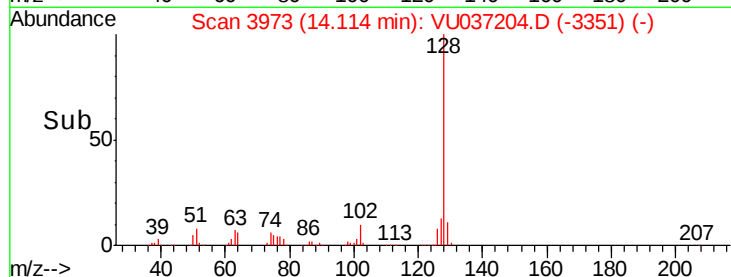
129 10.9 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 49.240 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU037204.D

Acq: 12 Mar 2020 21:10

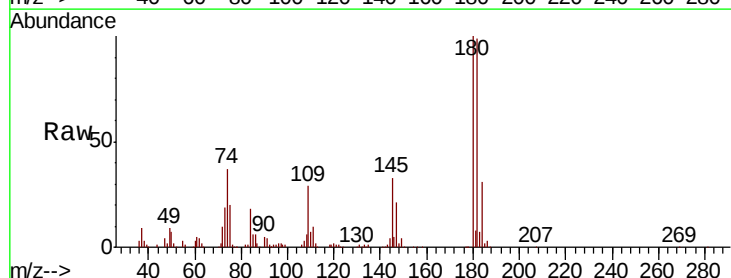
Tgt Ion:180 Resp: 191574

Ion Ratio Lower Upper

180 100

182 95.7 77.8 116.6

145 33.9 27.4 41.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

