

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
 Data File : VU037774.D
 Acq On : 17 Apr 2020 14:40
 Operator : JC/MD
 Sample : L2296-05RE
 Misc : 25mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 18 01:23:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR041420WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 18 01:19:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	269094	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	256779	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	128001	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	87715	4.31	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.20%
7) Chloroethane-d5	1.93	69	77251	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.00%
11) 1,1-Dichloroethene-d2	2.59	63	117085	3.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	64.80%
20) 2-Butanone-d5	4.67	46	291303	52.09	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	104.18%
24) Chloroform-d	5.10	84	149834	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
26) 1,2-Dichloroethane-d4	5.74	65	92331	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
32) Benzene-d6	5.76	84	328505	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.40%
36) 1,2-Dichloropropane-d6	6.72	67	111884	4.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.20%
41) Toluene-d8	7.92	98	296114	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
43) trans-1,3-Dichloropropene-	8.20	79	45328	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.65	63	248159	47.80	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.60%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	85642	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.20%
64) 1,2-Dichlorobenzene-d4	12.21	152	112019	4.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.62	62	148336	5.231	ug/L	98
12) 1,1-Dichloroethene	2.60	96	3294	0.177	ug/L #	1
13) Acetone	2.66	43	4304	1.167	ug/L	87
14) Carbon disulfide	2.82	76	14177	0.209	ug/L	98
15) Methyl Acetate	3.07	43	6500	0.634	ug/L #	54
17) Methyl tert-butyl Ether	3.40	73	7617	0.142	ug/L #	1
18) trans-1,2-Dichloroethene	3.38	96	3796	0.189	ug/L	87
19) 1,1-Dichloroethane	3.91	63	117666	3.022	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	100460	4.618	ug/L	99
25) Chloroform	5.13	83	21658	0.585	ug/L	98
27) 1,2-Dichloroethane	5.83	62	17512	0.700	ug/L	98
29) 1,1,1-Trichloroethane	5.35	97	11628	0.373	ug/L	99
30) Cyclohexane	5.42	56	9303	0.241	ug/L	96
33) Benzene	5.81	78	31319	0.369	ug/L	100
34) Trichloroethene	6.57	95	4292	0.206	ug/L	93
35) Methylcyclohexane	6.72	83	24425	0.668	ug/L #	17
37) 1,2-Dichloropropane	6.72	63	12086	0.537	ug/L #	87

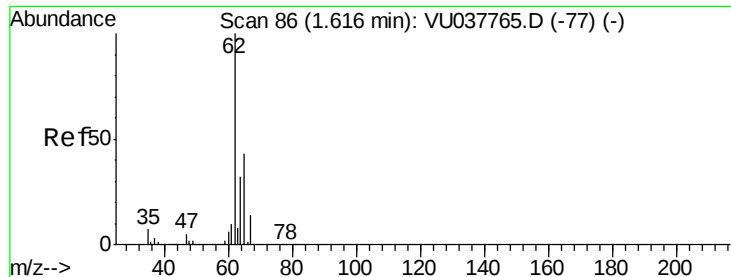
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041720\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 18 01:19:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.59	75	3067	0.087	ug/L #	62
45) 1,1,2-Trichloroethane	8.42	97	8520	0.562	ug/L	95
51) Chlorobenzene	9.47	112	58046	1.071	ug/L	97
54) o-Xylene	10.12	106	5916	0.161	ug/L	96
59) 1,2,3-Trichloropropane	11.83	75	20148	1.368	ug/L	100
62) 1,3-Dichlorobenzene	11.76	146	4501	0.105	ug/L	87
63) 1,4-Dichlorobenzene	11.85	146	8844	0.206	ug/L	97
65) 1,2-Dichlorobenzene	12.23	146	4339	0.108	ug/L #	82

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



#5

Vinyl chloride

Concen: 5.231 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037774.D

Acq: 17 Apr 2020 14:40

Instrument :

MSVOA_U

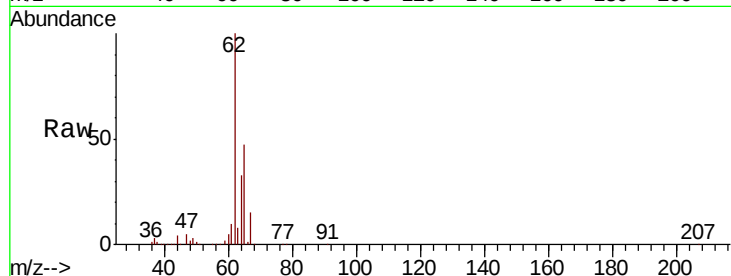
ClientSampleId :

Tot Ion: 62 Resp: 148336

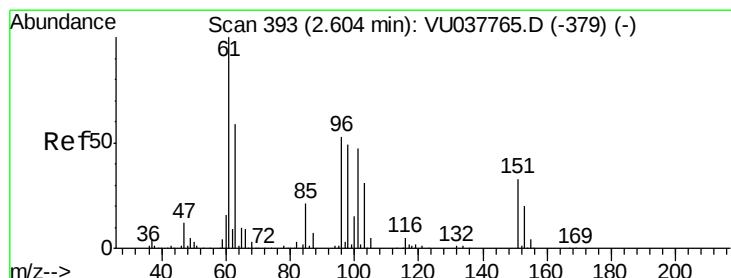
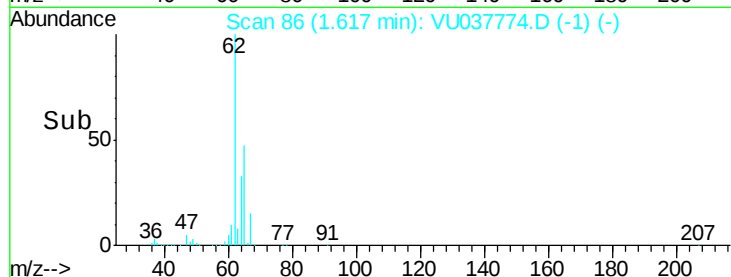
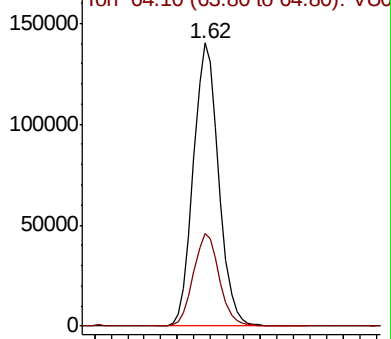
Ion Ratio Lower Upper

62 100

64 32.5 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VU037774.D (-1) (-)



#12

1,1-Dichloroethene

Concen: 0.177 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037774.D

Acq: 17 Apr 2020 14:40

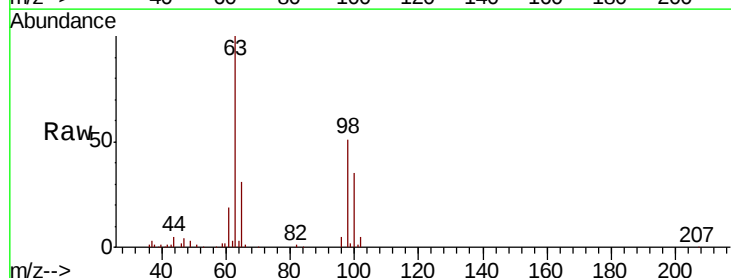
Tgt Ion: 96 Resp: 3294

Ion Ratio Lower Upper

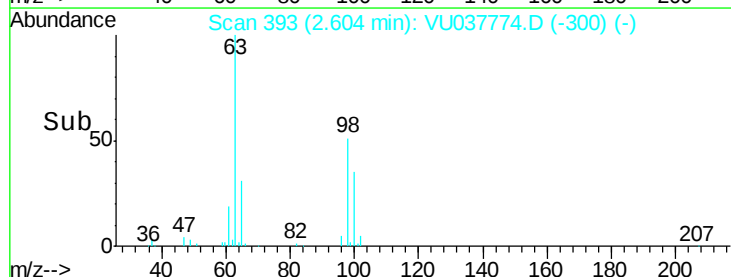
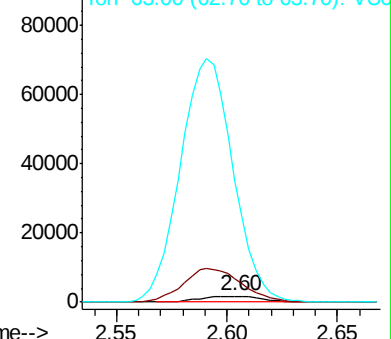
96 100

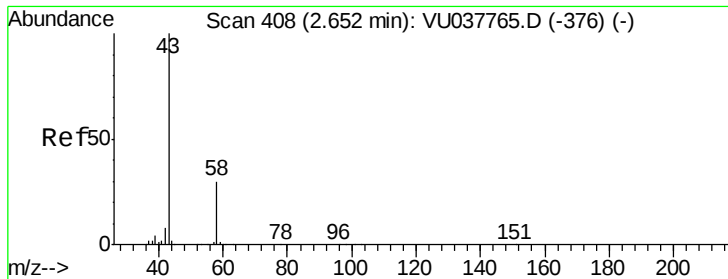
61 397.6 127.7 237.3#

63 2053.8 85.0 157.8#



Abundance Ion 96.00 (95.70 to 96.70): VU037774.D (-300) (-)





#13

Acetone

Concen: 1.167 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037774.D

Acq: 17 Apr 2020 14:40

Instrument :

MSVOA_U

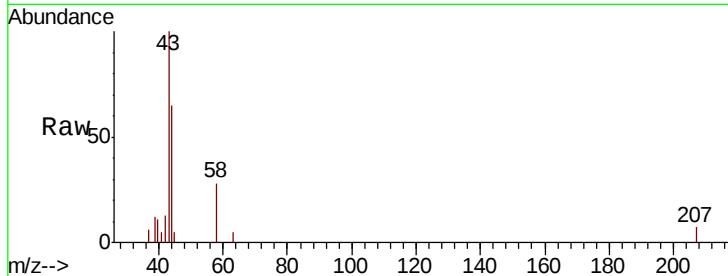
ClientSampleId :

Tot Ion: 43 Resp: 4304

Ion Ratio Lower Upper

43 100

58 25.3 0.0 64.8



Abundance Ion 43.05 (42.75 to 43.75): VU037774.D (-315) (-)

Ion 58.05 (57.75 to 58.75): VU037774.D (-315) (-)

2.66

2500

2000

1500

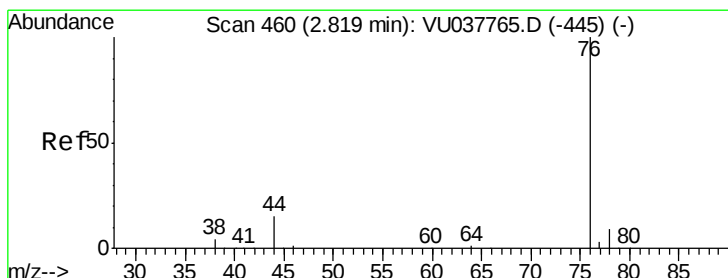
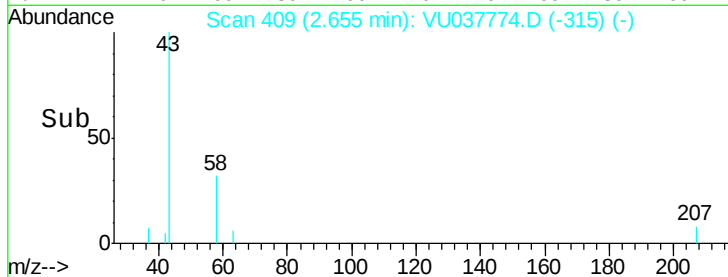
1000

500

0

Time-->

2.60 2.65 2.70



#14

Carbon disulfide

Concen: 0.209 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037774.D

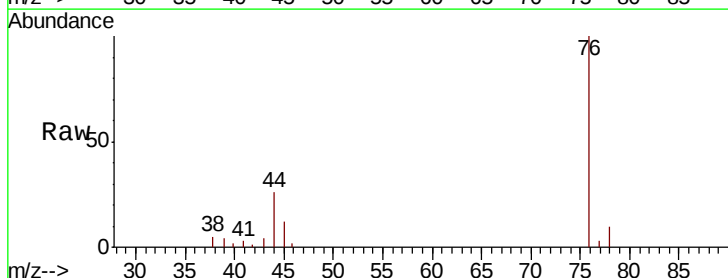
Acq: 17 Apr 2020 14:40

Tgt Ion: 76 Resp: 14177

Ion Ratio Lower Upper

76 100

78 9.9 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU037774.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037774.D (-367) (-)

10000

8000

6000

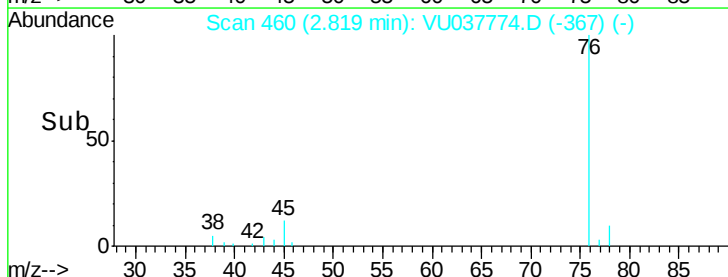
4000

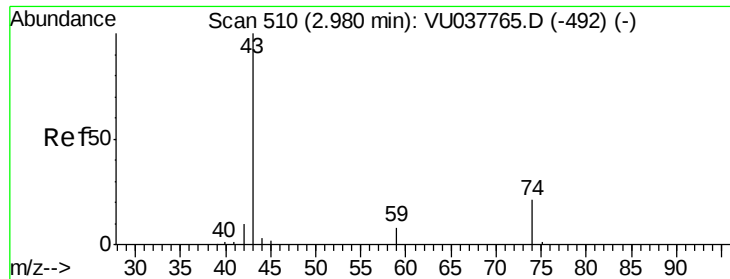
2000

0

Time-->

2.75 2.80 2.85

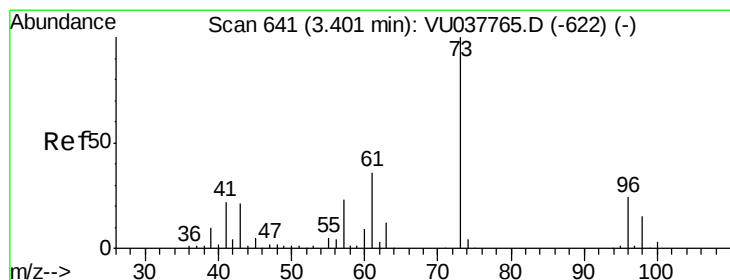
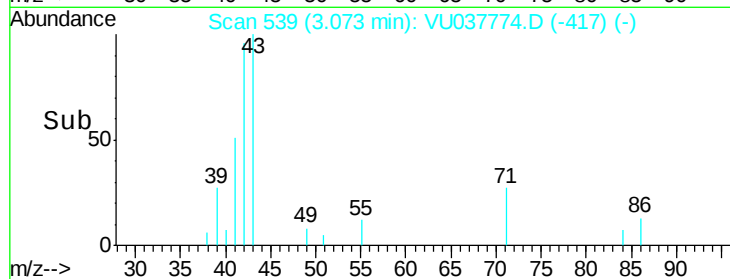
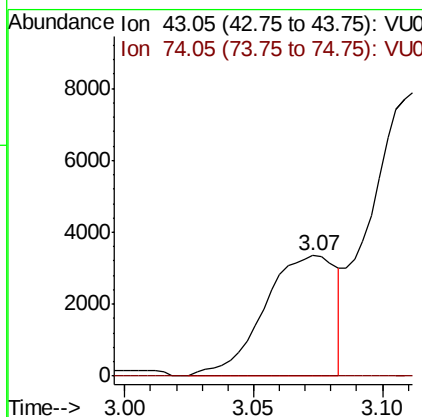
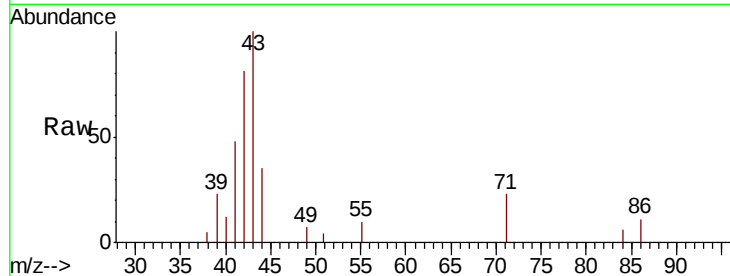




#15
Methyl Acetate
Concen: 0.634 ug/L
RT: 3.07 min Scan# 539
Delta R.T. 0.09 min
Lab File: VU037774.D
Acq: 17 Apr 2020 14:40

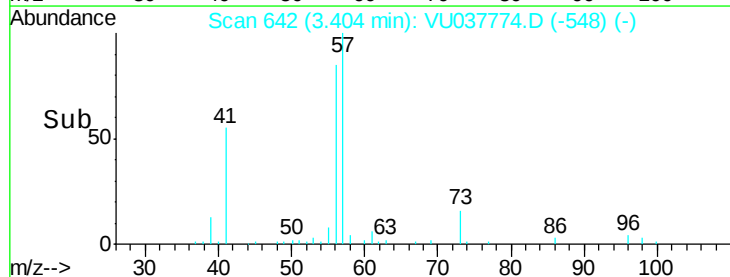
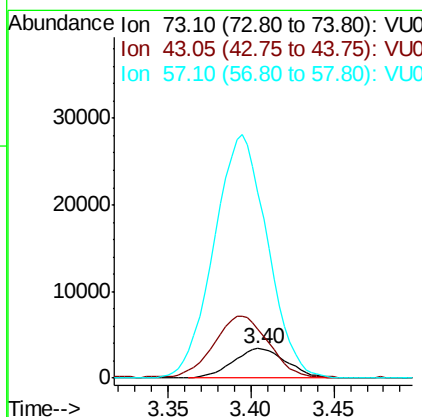
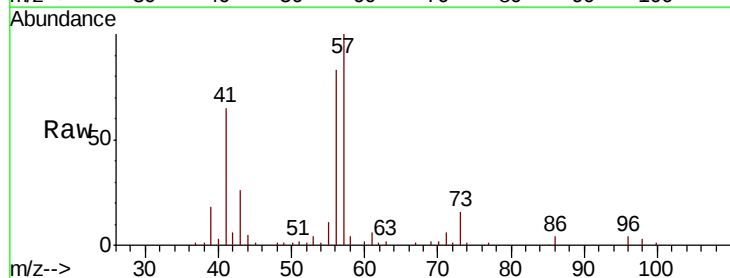
Instrument :
MSVOA_U
ClientSampled :

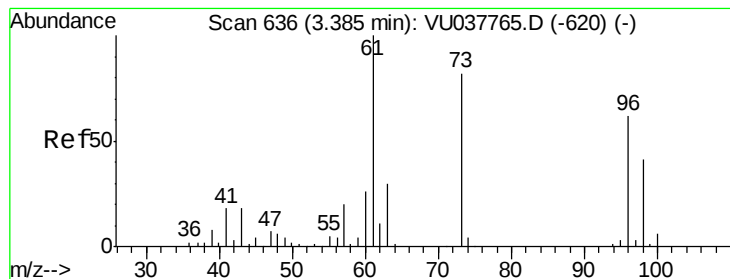
Tot Ion: 43 Resp: 6500
Ion Ratio Lower Upper
43 100
74 0.0 17.2 25.8#



#17
Methyl tert-butyl Ether
Concen: 0.142 ug/L
RT: 3.40 min Scan# 642
Delta R.T. 0.00 min
Lab File: VU037774.D
Acq: 17 Apr 2020 14:40

Tgt Ion: 73 Resp: 7617
Ion Ratio Lower Upper
73 100
43 221.5 16.4 24.6#
57 827.5 18.4 27.6#





#18

trans-1,2-Dichloroethene

Concen: 0.189 ug/L

RT: 3.38 min Scan# 636

Delta R.T. 0.00 min

Lab File: VU037774.D

Acq: 17 Apr 2020 14:40

Instrument :
MSVOA_U
ClientSampleId :

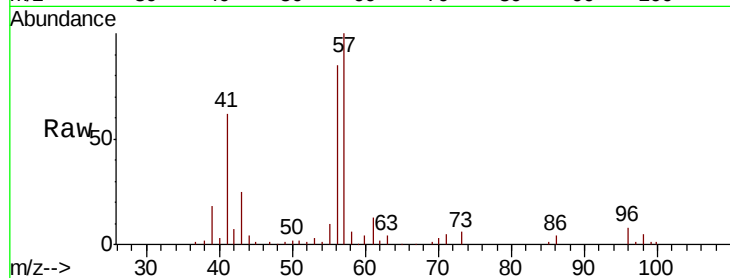
Tot Ion: 96 Resp: 3796

Ion Ratio Lower Upper

96 100

61 172.7 106.7 198.3

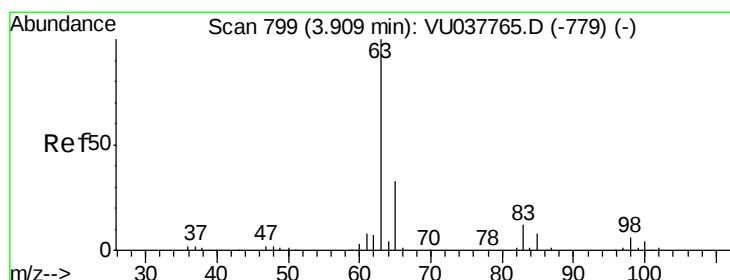
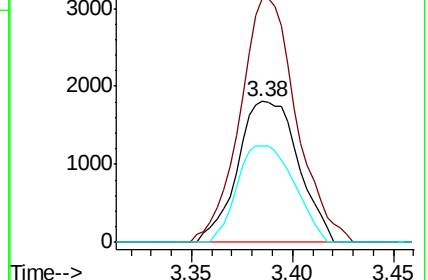
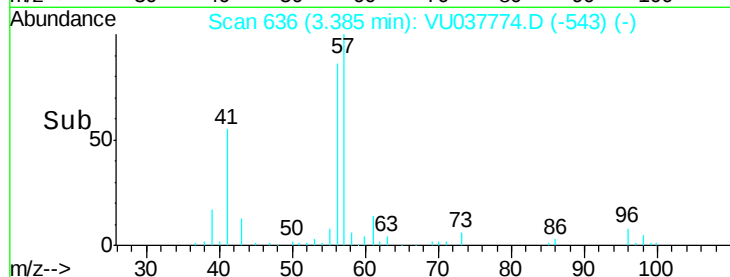
98 68.3 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU037774.D (-543) (-)

Ion 61.05 (60.75 to 61.75): VU037774.D (-543) (-)

Ion 97.95 (97.65 to 98.65): VU037774.D (-543) (-)



#19

1,1-Dichloroethane

Concen: 3.022 ug/L

RT: 3.91 min Scan# 800

Delta R.T. 0.00 min

Lab File: VU037774.D

Acq: 17 Apr 2020 14:40

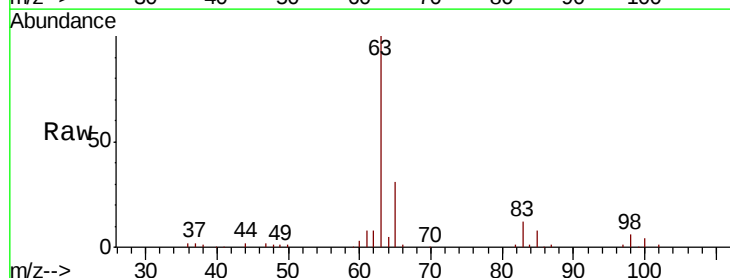
Tgt Ion: 63 Resp: 117666

Ion Ratio Lower Upper

63 100

65 30.8 21.6 40.2

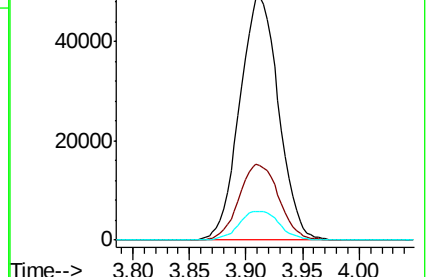
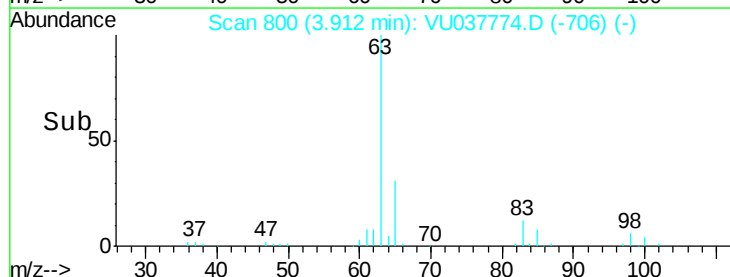
83 11.7 8.6 16.0

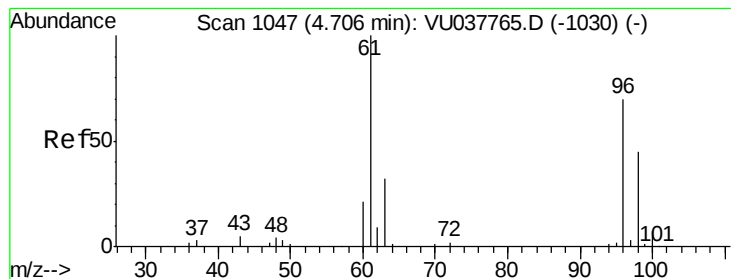


Abundance Ion 63.10 (62.80 to 63.80): VU037774.D (-706) (-)

Ion 65.10 (64.80 to 65.80): VU037774.D (-706) (-)

Ion 83.05 (82.75 to 83.75): VU037774.D (-706) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.618 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037774.D

Acq: 17 Apr 2020 14:40

Instrument :
MSVOA_U
ClientSampleId :

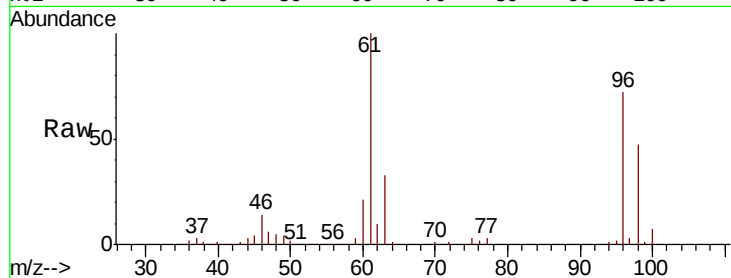
Tot Ion: 96 Resp: 100460

Ion Ratio Lower Upper

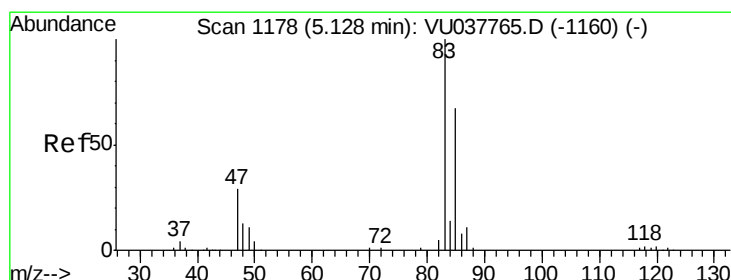
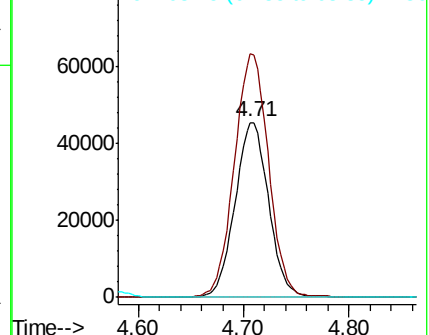
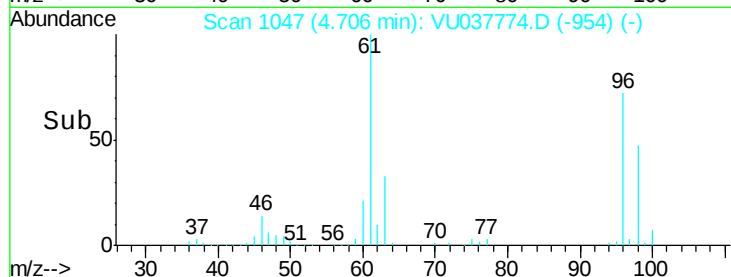
96 100

61 139.4 97.0 180.2

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU037774.D (-954) (-)



#25

Chloroform

Concen: 0.585 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU037774.D

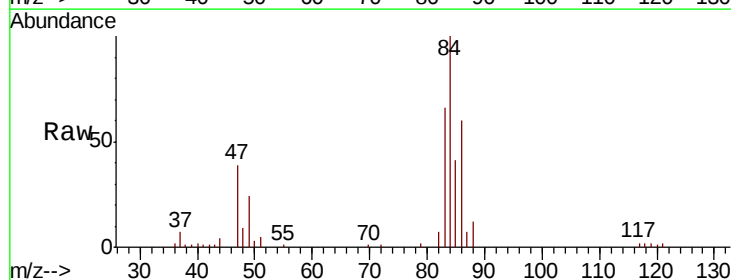
Acq: 17 Apr 2020 14:40

Tgt Ion: 83 Resp: 21658

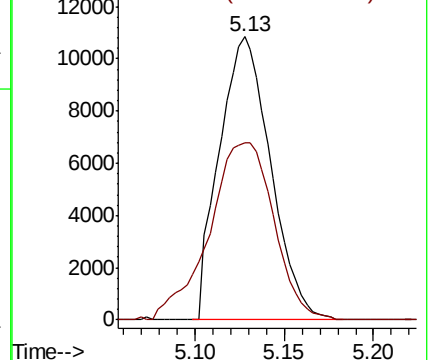
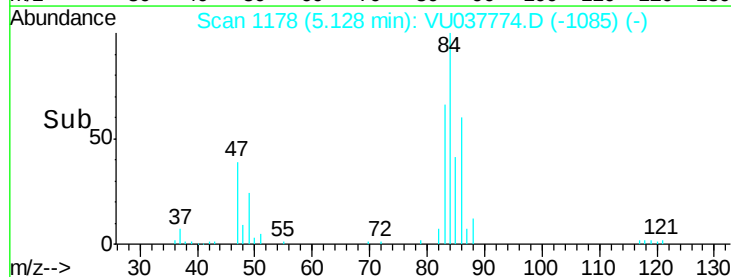
Ion Ratio Lower Upper

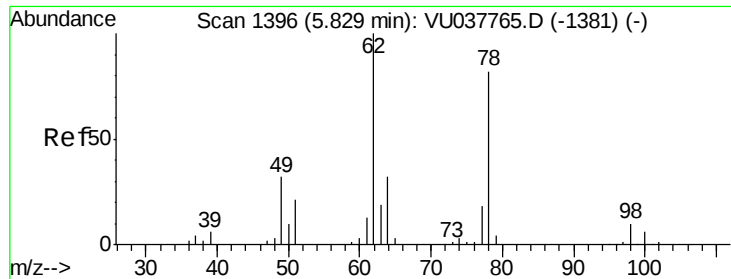
83 100

85 62.5 44.9 83.3



Abundance Ion 83.05 (82.75 to 83.75): VU037774.D (-1085) (-)

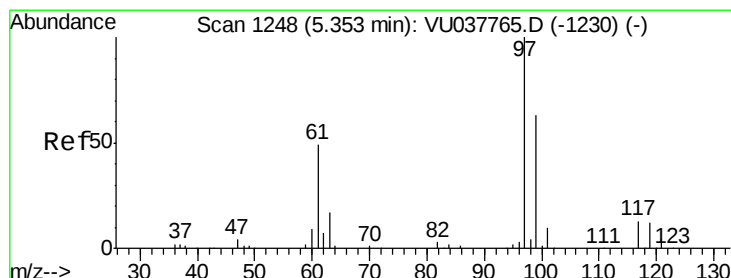
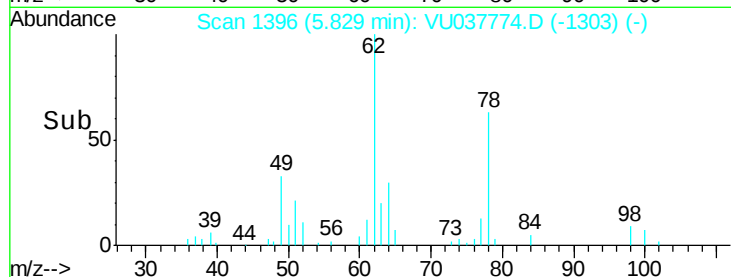
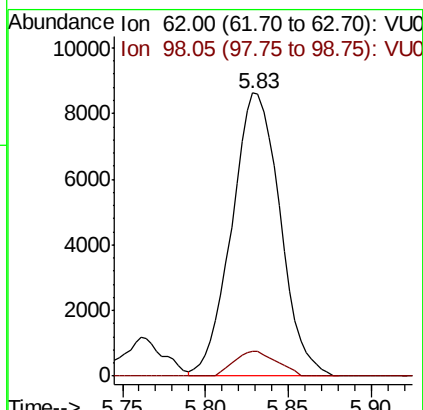
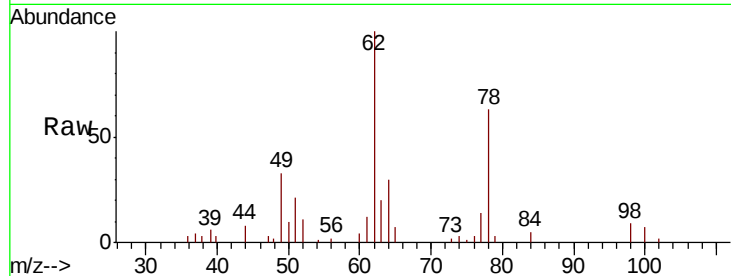




#27
 1,2-Dichloroethane
 Concen: 0.700 ug/L
 RT: 5.83 min Scan# 1396
 Delta R.T. 0.00 min
 Lab File: VU037774.D
 Acq: 17 Apr 2020 14:40

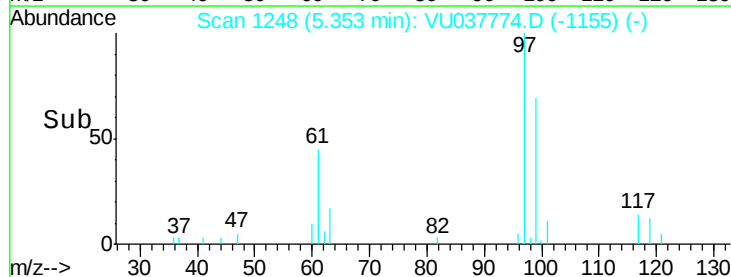
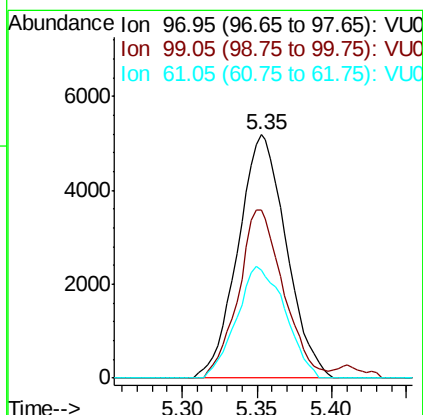
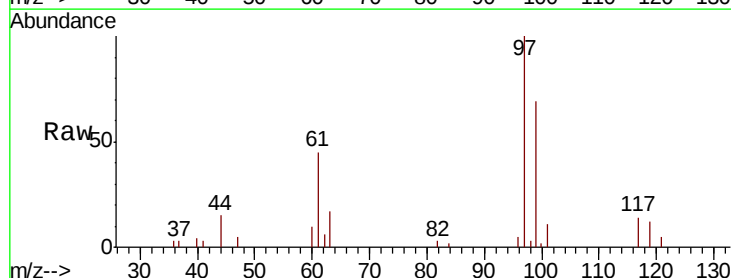
Instrument :
 MSVOA_U
 ClientSampleId :

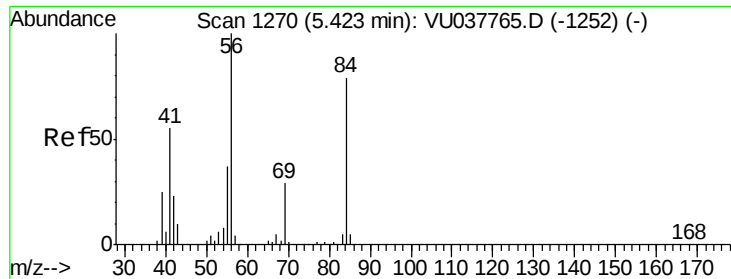
Tot Ion: 62 Resp: 17512
 Ion Ratio Lower Upper
 62 100
 98 8.8 7.6 11.4



#29
 1,1,1-Trichloroethane
 Concen: 0.373 ug/L
 RT: 5.35 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VU037774.D
 Acq: 17 Apr 2020 14:40

Tgt Ion: 97 Resp: 11628
 Ion Ratio Lower Upper
 97 100
 99 64.8 52.0 78.0
 61 46.0 37.8 56.8

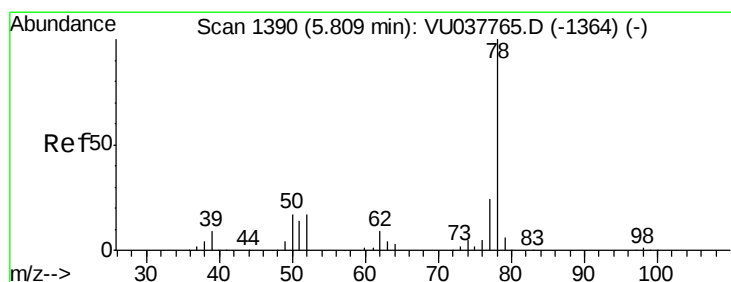
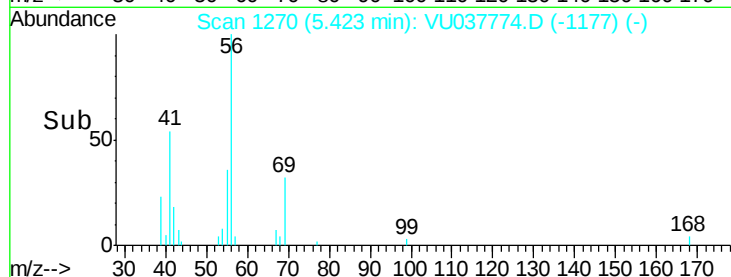
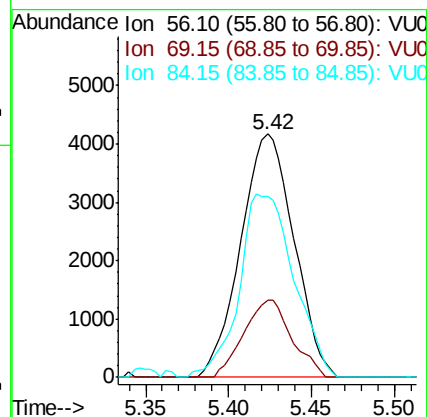
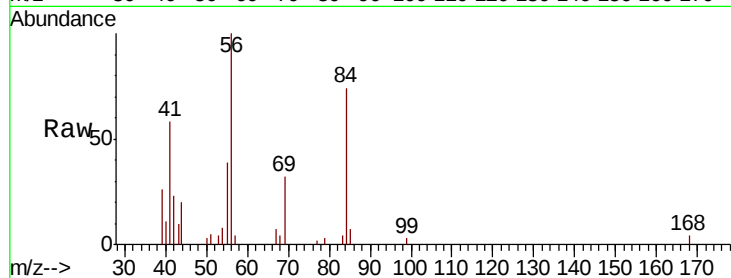




#30
Cyclohexane
Concen: 0.241 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VU037774.D
Acq: 17 Apr 2020 14:40

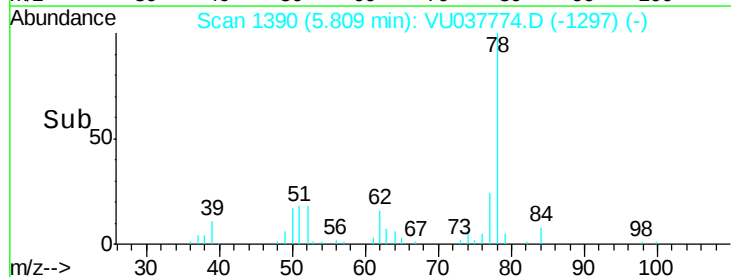
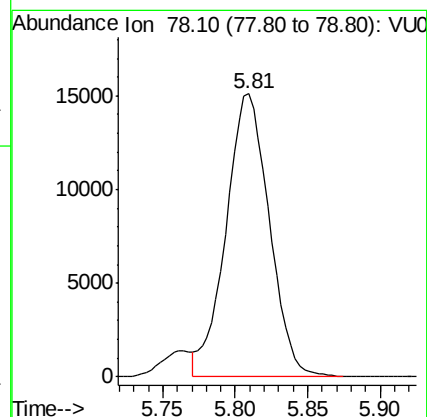
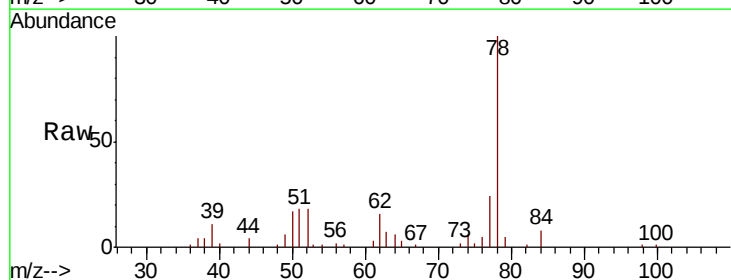
Instrument :
MSVOA_U
ClientSampled :

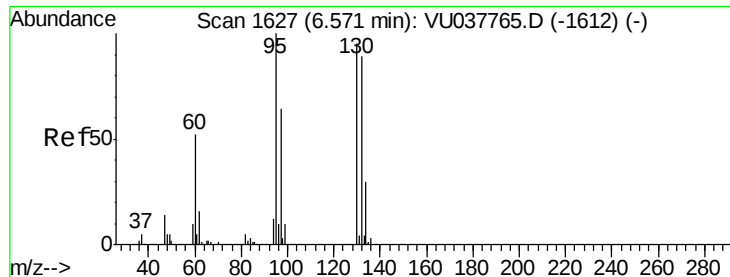
Tot Ion: 56 Resp: 9303
Ion Ratio Lower Upper
56 100
69 28.4 23.9 35.9
84 77.4 65.6 98.4



#33
Benzene
Concen: 0.369 ug/L
RT: 5.81 min Scan# 1390
Delta R.T. 0.00 min
Lab File: VU037774.D
Acq: 17 Apr 2020 14:40

Tgt Ion: 78 Resp: 31319

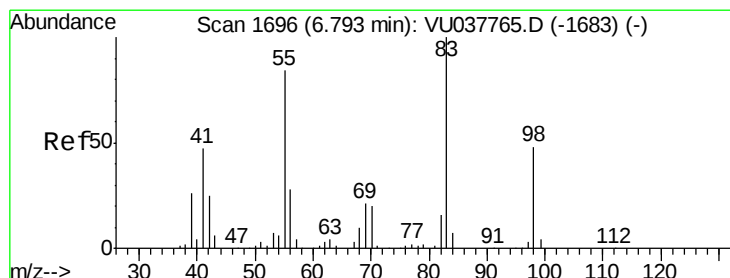
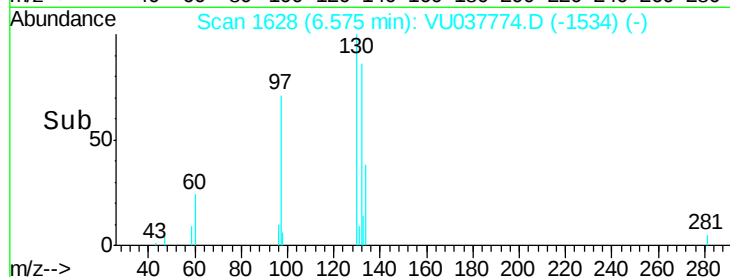
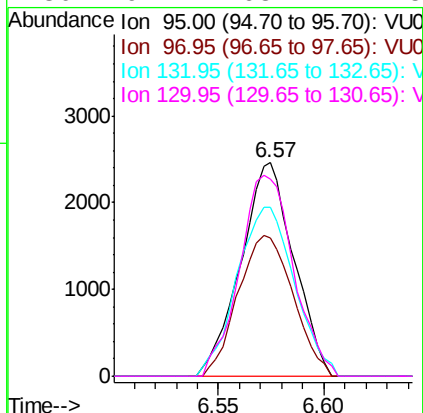
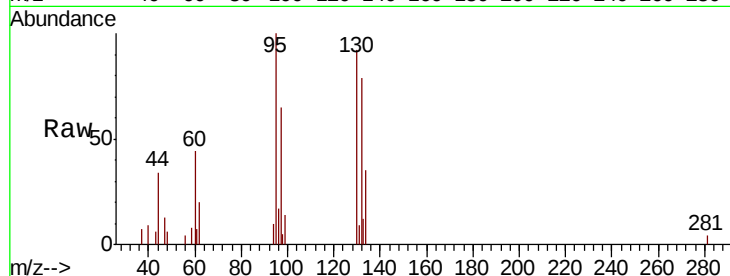




#34
 Trichloroethene
 Concen: 0.206 ug/L
 RT: 6.57 min Scan# 1628
 Delta R.T. 0.00 min
 Lab File: VU037774.D
 Acq: 17 Apr 2020 14:40

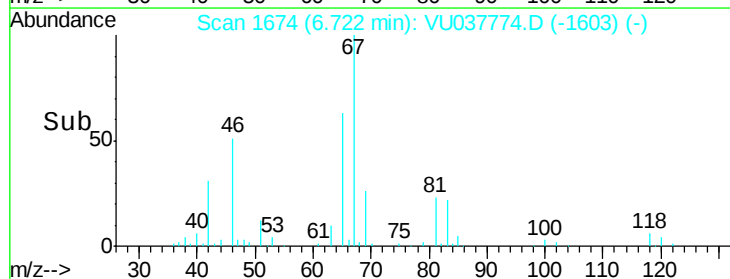
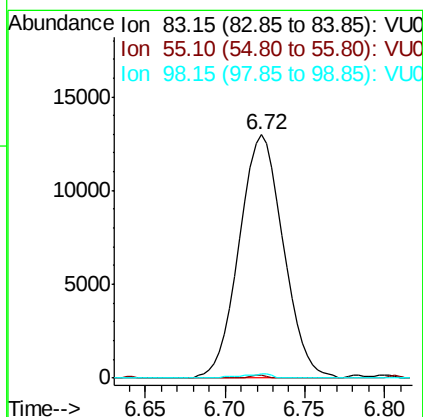
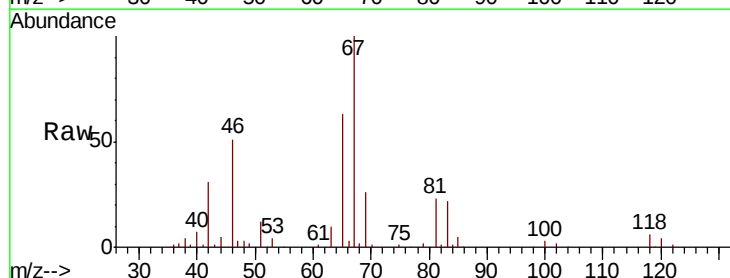
Instrument :
 MSVOA_U
 ClientSampleId :

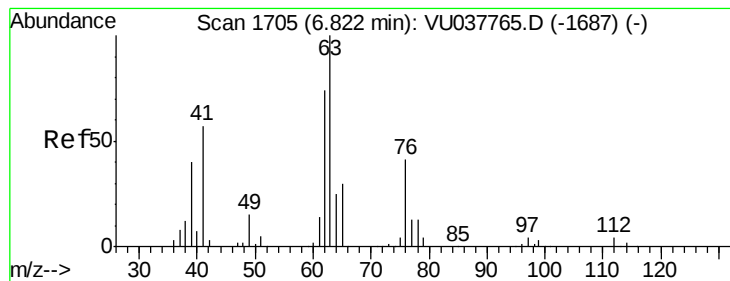
Tot Ion: 95 Resp: 4292
 Ion Ratio Lower Upper
 95 100
 97 65.0 45.4 84.2
 132 79.1 63.7 118.3
 130 92.1 68.7 127.5



#35
 Methylcyclohexane
 Concen: 0.668 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.07 min
 Lab File: VU037774.D
 Acq: 17 Apr 2020 14:40

Tgt Ion: 83 Resp: 24425
 Ion Ratio Lower Upper
 83 100
 55 0.4 65.5 98.3#
 98 1.2 38.2 57.4#





#37

1,2-Dichloropropane

Concen: 0.537 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.10 min

Lab File: VU037774.D

Acq: 17 Apr 2020 14:40

Instrument :

MSVOA_U

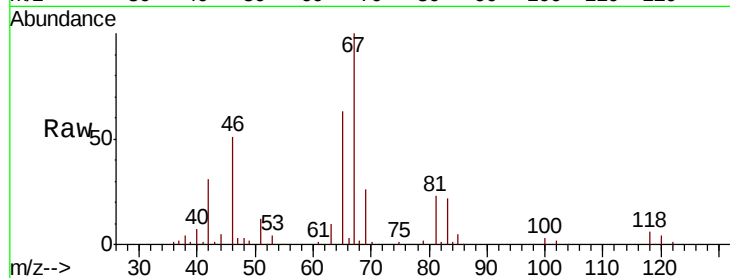
ClientSampleId :

Tot Ion: 63 Resp: 12086

Ion Ratio Lower Upper

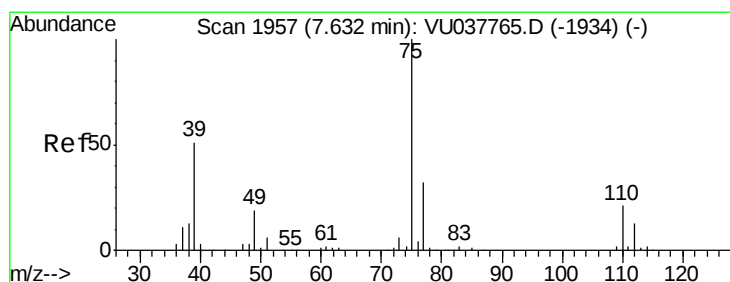
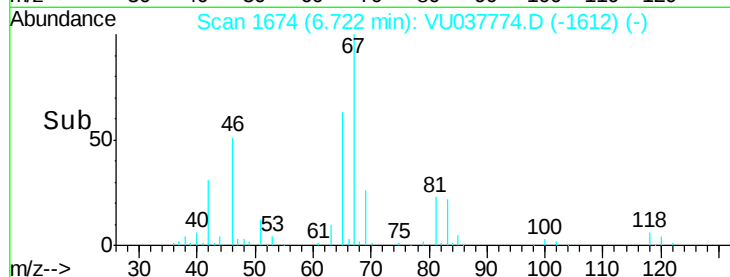
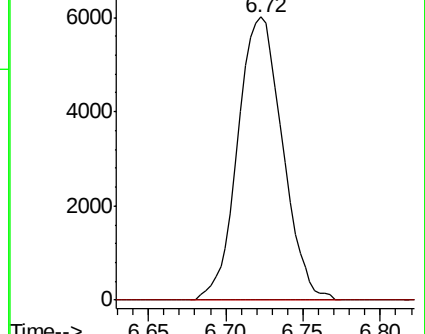
63 100

112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VU037774.D (-1674) (-)

Ion 112.10 (111.80 to 112.80): VU037774.D (-1674) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.087 ug/L

RT: 7.59 min Scan# 1945

Delta R.T. -0.04 min

Lab File: VU037774.D

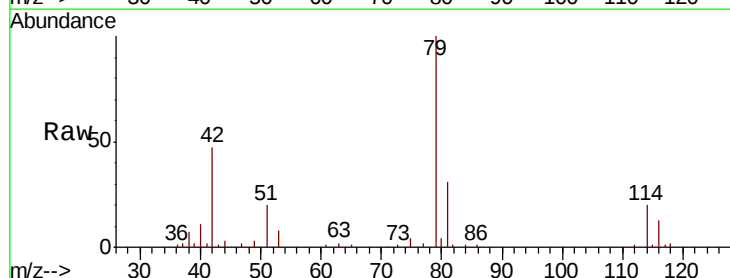
Acq: 17 Apr 2020 14:40

Tgt Ion: 75 Resp: 3067

Ion Ratio Lower Upper

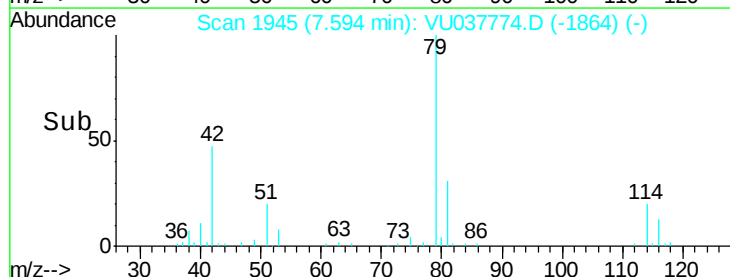
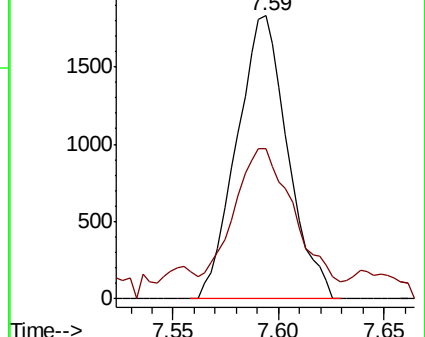
75 100

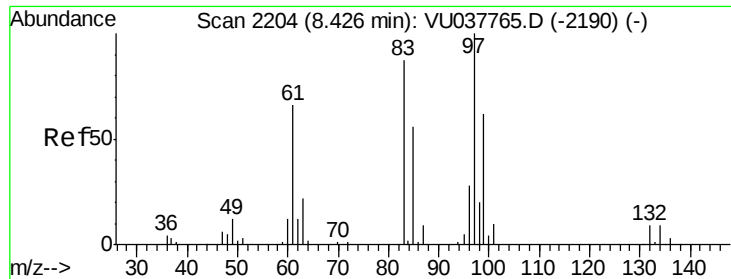
77 53.0 22.2 41.2#



Abundance Ion 75.05 (74.75 to 75.75): VU037774.D (-1864) (-)

Ion 77.05 (76.75 to 77.75): VU037774.D (-1864) (-)

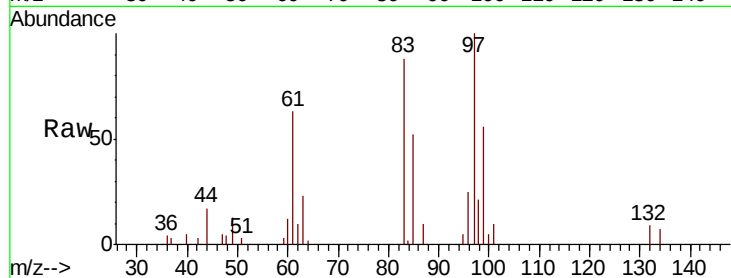




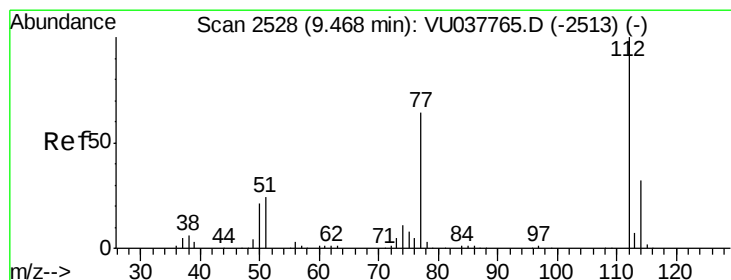
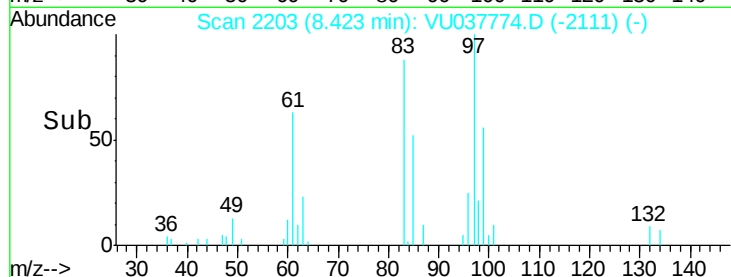
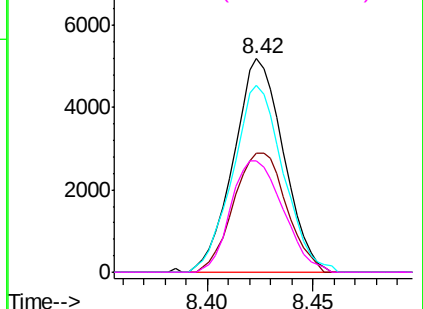
#45
 1,1,2-Trichloroethane
 Concen: 0.562 ug/L
 RT: 8.42 min Scan# 2203
 Delta R.T. -0.00 min
 Lab File: VU037774.D
 Acq: 17 Apr 2020 14:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:	97	Resp:	8520
Ion	Ratio	Lower	Upper
97	100		
99	55.7	43.1	80.1
83	87.7	62.4	116.0
85	52.2	39.6	73.6

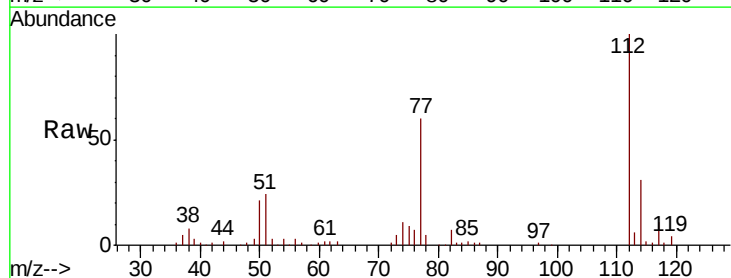


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

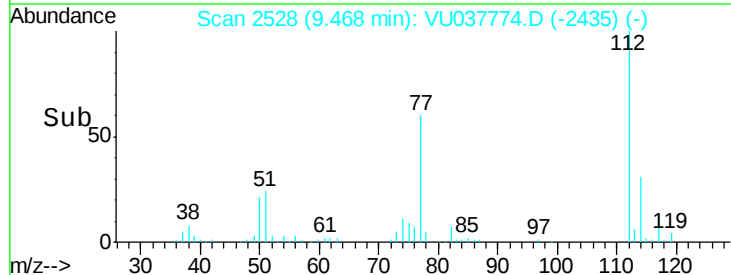
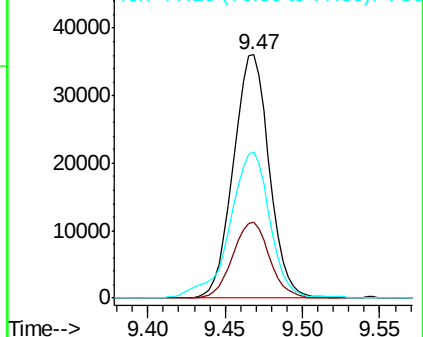


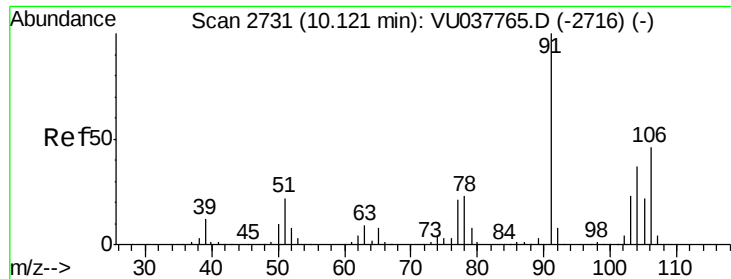
#51
 Chlorobenzene
 Concen: 1.071 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037774.D
 Acq: 17 Apr 2020 14:40

Tgt Ion:	112	Resp:	58046
Ion	Ratio	Lower	Upper
112	100		
114	31.0	22.6	42.0
77	60.0	50.2	75.4



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): VU0

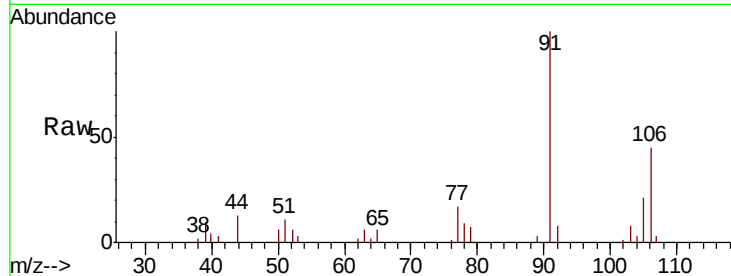




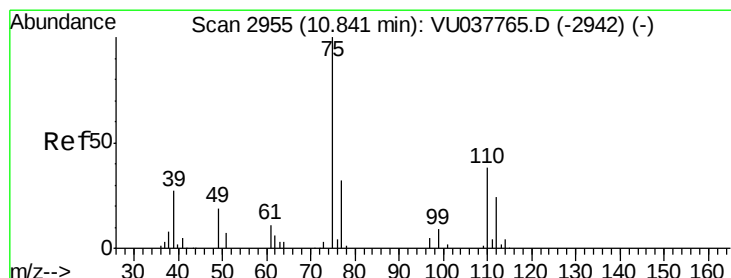
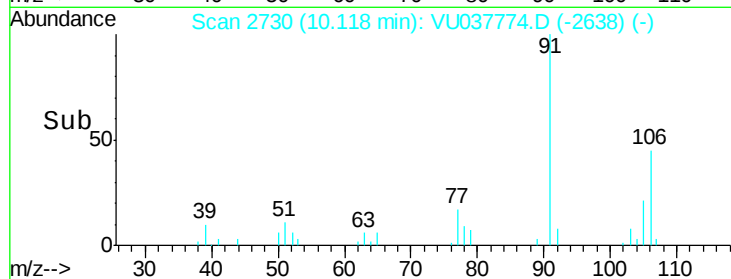
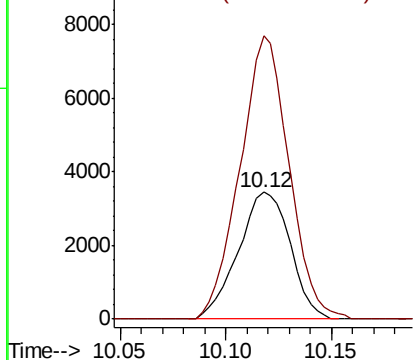
#54
o-Xylene
Concen: 0.161 ug/L
RT: 10.12 min Scan# 2730
Delta R.T. -0.00 min
Lab File: VU037774.D
Acq: 17 Apr 2020 14:40

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 5916
Ion Ratio Lower Upper
106 100
91 222.9 151.1 280.7

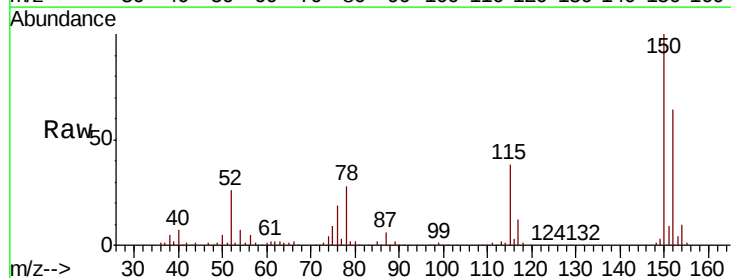


Abundance Ion 106.15 (105.85 to 106.85): VU037774.D (-2638) (-)
Ion 91.15 (90.85 to 91.85): VU037774.D (-2638) (-)

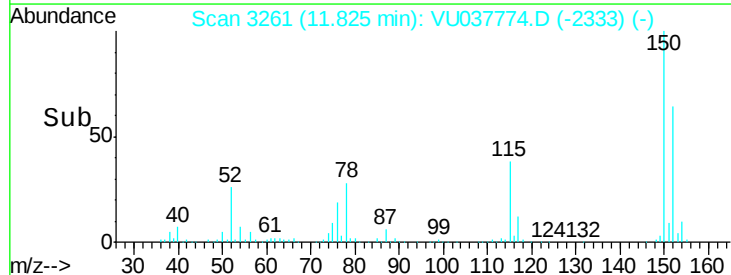
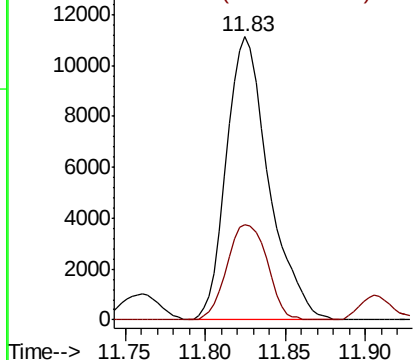


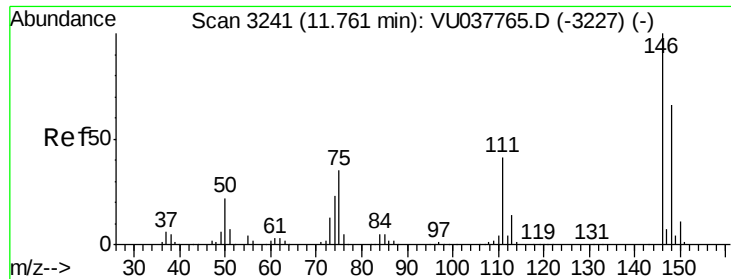
#59
1,2,3-Trichloropropane
Concen: 1.368 ug/L
RT: 11.83 min Scan# 3261
Delta R.T. 0.98 min
Lab File: VU037774.D
Acq: 17 Apr 2020 14:40

Tgt Ion: 75 Resp: 20148
Ion Ratio Lower Upper
75 100
77 31.9 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU037774.D (-2333) (-)
Ion 77.00 (76.70 to 77.70): VU037774.D (-2333) (-)

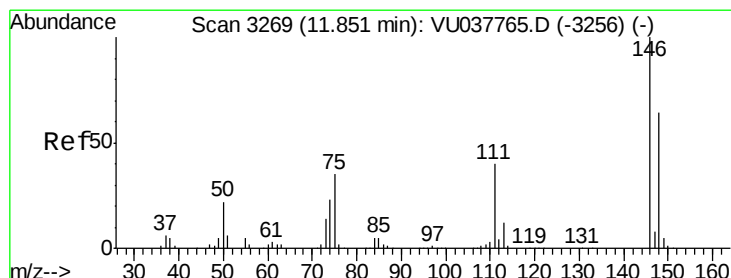
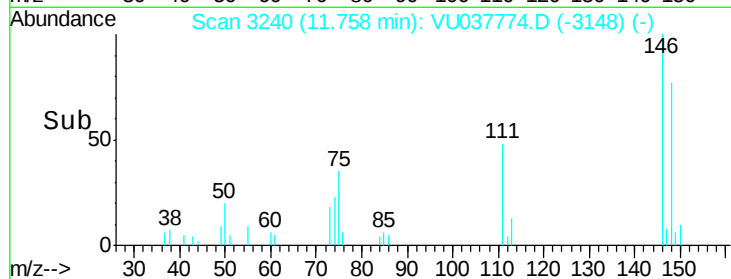
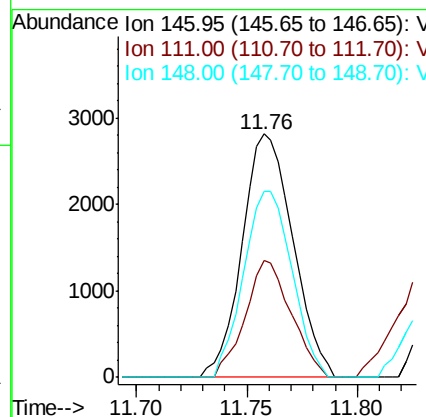
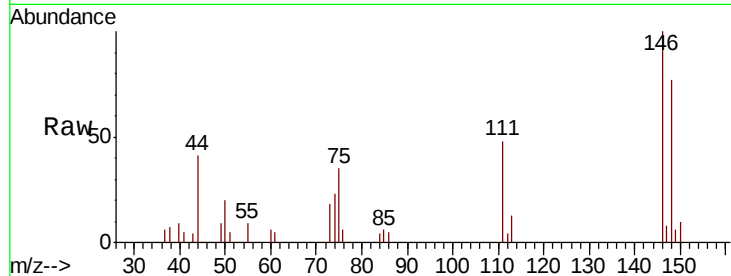




#62
 1,3-Dichlorobenzene
 Concen: 0.105 ug/L
 RT: 11.76 min Scan# 3240
 Delta R.T. -0.00 min
 Lab File: VU037774.D
 Acq: 17 Apr 2020 14:40

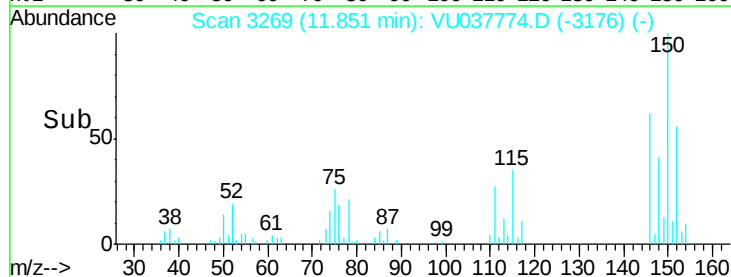
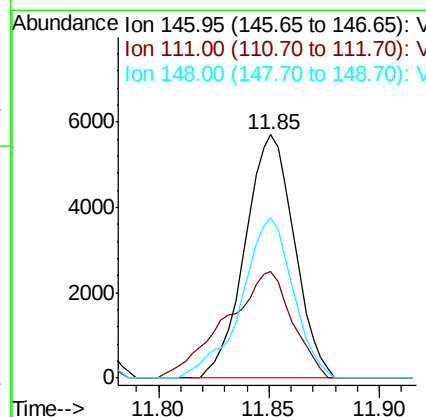
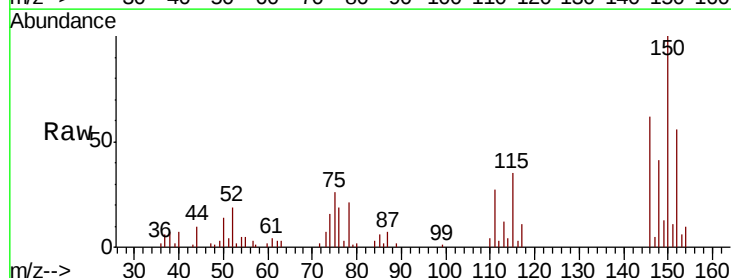
Instrument :
 MSVOA_U
 ClientSampleId :

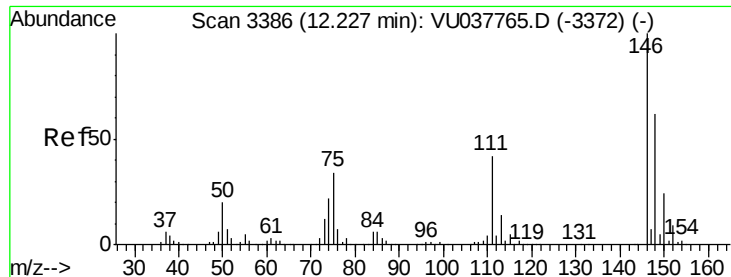
Tot Ion:146 Resp: 4501
 Ion Ratio Lower Upper
 146 100
 111 47.9 29.8 55.3
 148 76.6 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 0.206 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037774.D
 Acq: 17 Apr 2020 14:40

Tgt Ion:146 Resp: 8844
 Ion Ratio Lower Upper
 146 100
 111 43.6 28.4 52.8
 148 65.7 44.9 83.3

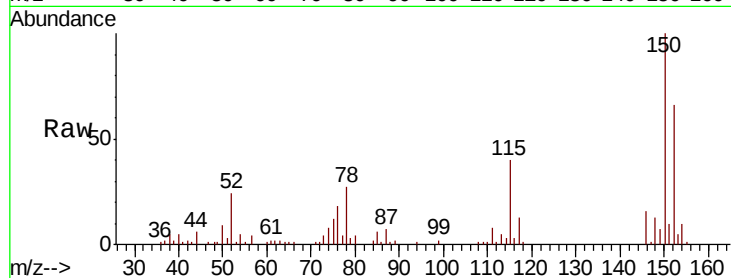




#65
 1,2-Dichlorobenzene
 Concen: 0.108 ug/L
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.00 min
 Lab File: VU037774.D
 Acq: 17 Apr 2020 14:40

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 4339
 Ion Ratio Lower Upper
 146 100
 111 51.0 35.0 52.6
 148 81.9 51.5 77.3#



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

