

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030320\
 Data File : VU037018.D
 Acq On : 03 Mar 2020 11:04
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 04 06:46:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Mar 03 12:03:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	267948	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	259603	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	116524	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	79410	35.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	70.58%
7) Chloroethane-d5	1.91	69	75247	40.42	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.84%
11) 1,1-Dichloroethene-d2	2.58	63	154414	40.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.96%
21) 2-Butanone-d5	4.67	46	152108	100.78	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.78%
24) Chloroform-d	5.10	84	172862	50.31	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.62%
26) 1,2-Dichloroethane-d4	5.74	65	116549	50.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.24%
32) Benzene-d6	5.76	84	350424	46.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.36%
36) 1,2-Dichloropropane-d6	6.72	67	118734	48.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.64%
41) Toluene-d8	7.92	98	326100	46.82	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.64%
43) trans-1,3-Dichloropropene-	8.20	79	53769	47.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.14%
47) 2-Hexanone-d5	8.66	63	121312	102.01	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.01%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	186136	54.28	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	108.56%
64) 1,2-Dichlorobenzene-d4	12.21	152	112397	49.34	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.68%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	117069	51.510	ug/L	99
3) Chloromethane	1.53	50	133751	51.153	ug/L	100
5) Vinyl chloride	1.62	62	133966	49.671	ug/L	98
6) Bromomethane	1.84	94	52710	38.091	ug/L	97
8) Chloroethane	1.93	64	81971	50.702	ug/L	99
9) Trichlorofluoromethane	2.14	101	149577	52.291	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	89777	52.467	ug/L	99
12) 1,1-Dichloroethene	2.60	96	87978	50.834	ug/L #	79
13) Acetone	2.65	43	159407	102.676	ug/L	99
14) Carbon disulfide	2.81	76	252028	46.026	ug/L	100
15) Methyl Acetate	2.98	43	116079	49.053	ug/L	99
16) Methylene chloride	3.07	84	108282	51.296	ug/L	98
17) trans-1,2-Dichloroethene	3.38	96	91872	49.416	ug/L	100
18) Methyl tert-butyl Ether	3.40	73	306124	50.654	ug/L	99
19) 1,1-Dichloroethane	3.91	63	186155	51.530	ug/L	98
20) cis-1,2-Dichloroethene	4.71	96	107926	51.916	ug/L	96
22) 2-Butanone	4.75	43	189634	101.292	ug/L	99

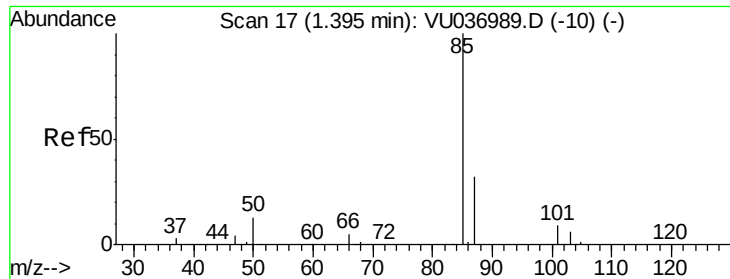
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030320\
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 Quant Title : VOC Analysis
 QLast Update : Tue Mar 03 12:03:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.01	128	49924	53.029	ug/L	98
25) Chloroform	5.12	83	181668	52.119	ug/L	100
27) 1,2-Dichloroethane	5.83	62	150051	52.877	ug/L	98
29) Cyclohexane	5.42	56	161507	46.882	ug/L	98
30) 1,1,1-Trichloroethane	5.35	97	142528	51.207	ug/L	98
31) Carbon tetrachloride	5.56	117	111879	51.283	ug/L	99
33) Benzene	5.81	78	420214	51.238	ug/L	100
34) Trichloroethene	6.57	95	102641	50.920	ug/L	99
35) Methylcyclohexane	6.79	83	171440	49.054	ug/L	100
37) 1,2-Dichloropropane	6.82	63	113965	51.609	ug/L	100
38) Bromodichloromethane	7.13	83	133645	51.272	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	170640	50.165	ug/L	100
40) 4-Methyl-2-pentanone	7.82	43	326548	100.357	ug/L	99
42) Toluene	8.00	91	454587	52.027	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	150942	51.153	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	103694	52.806	ug/L	99
46) Tetrachloroethene	8.58	164	67817	51.071	ug/L	99
48) 2-Hexanone	8.71	43	271347	104.502	ug/L	99
49) Dibromochloromethane	8.83	129	97309	52.208	ug/L	100
50) 1,2-Dibromoethane	8.95	107	106883	52.050	ug/L	99
51) Chlorobenzene	9.47	112	266832	51.540	ug/L	98
52) Ethylbenzene	9.59	91	487516	51.469	ug/L	100
53) m,p-Xylene	9.72	106	180638	51.990	ug/L	99
54) o-xylene	10.12	106	178330	51.461	ug/L	99
55) Styrene	10.13	104	307058	54.204	ug/L	100
56) Isopropylbenzene	10.50	105	464136	52.147	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.80	83	190059	54.138	ug/L	98
59) 1,2,3-Trichloropropane	10.84	75	152584	53.713	ug/L	99
61) Bromoform	10.31	173	68787	52.214	ug/L	98
62) 1,3-Dichlorobenzene	11.76	146	196401	51.958	ug/L	99
63) 1,4-Dichlorobenzene	11.85	146	196700	52.669	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	197593	52.353	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	36132	48.255	ug/L	98
67) 1,3,5-Trichlorobenzene	13.25	180	129262	53.874	ug/L	99
68) 1,2,4-trichlorobenzene	13.87	180	91488	50.894	ug/L	98
69) Naphthalene	14.12	128	137441	43.312	ug/L	98
70) 1,2,3-Trichlorobenzene	14.37	180	93404	51.996	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 51.510 ug/L

RT: 1.39 min Scan# 16

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

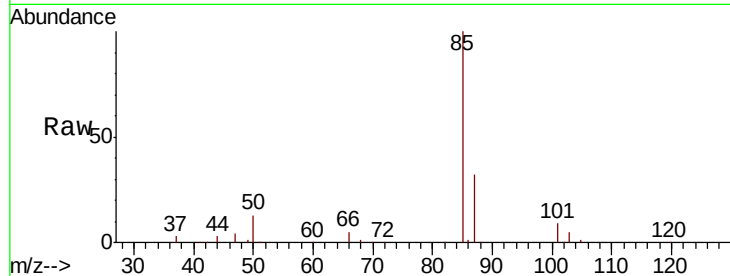
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 85 Resp: 117069

Ion Ratio Lower Upper

85 100

87 31.8 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU037018.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU037018.D (-1) (-)

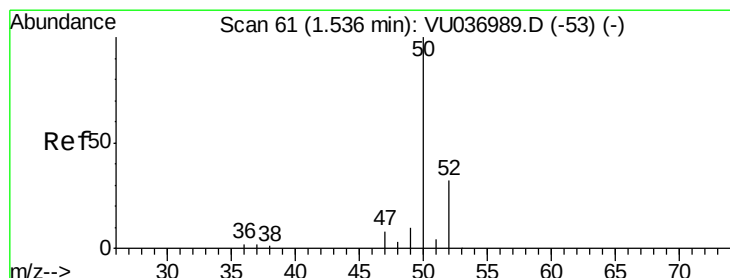
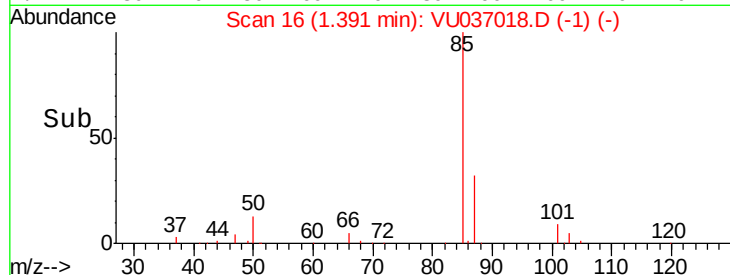
1.39

100000

50000

0

Time-->



#3

Chloromethane

Concen: 51.153 ug/L

RT: 1.53 min Scan# 60

Delta R.T. -0.00 min

Lab File: VU037018.D

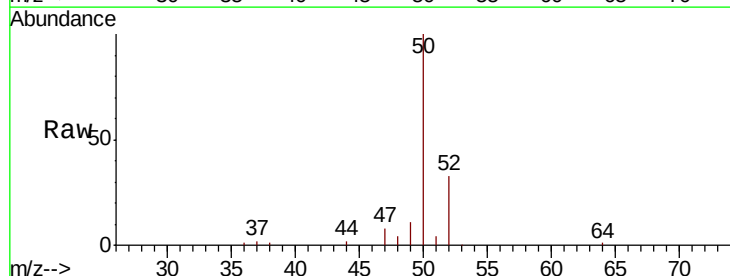
Acq: 03 Mar 2020 11:04

Tgt Ion: 50 Resp: 133751

Ion Ratio Lower Upper

50 100

52 32.5 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU037018.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037018.D (-1) (-)

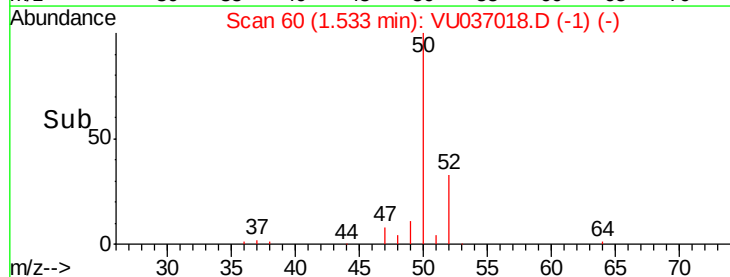
1.53

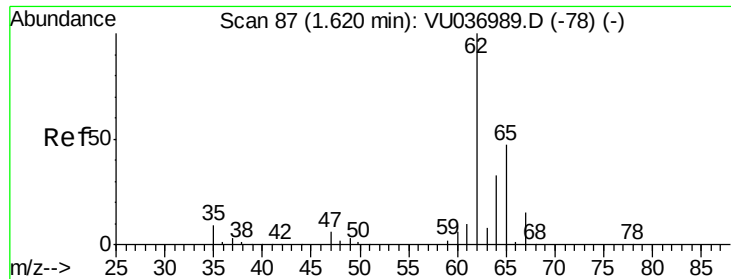
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 49.671 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

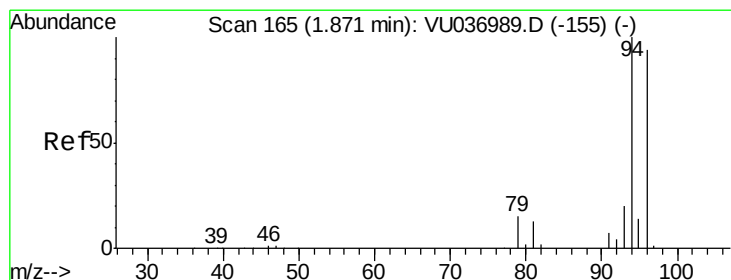
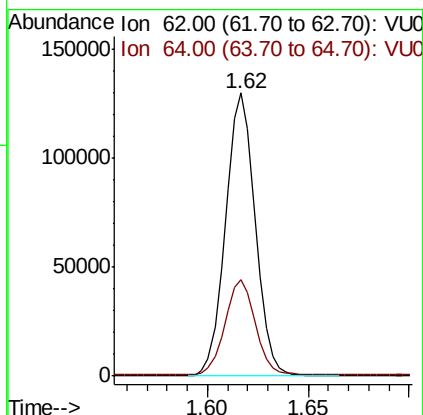
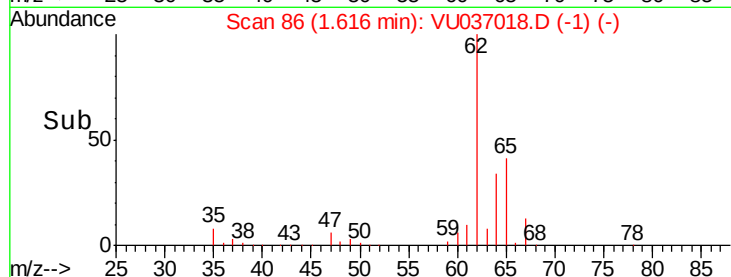
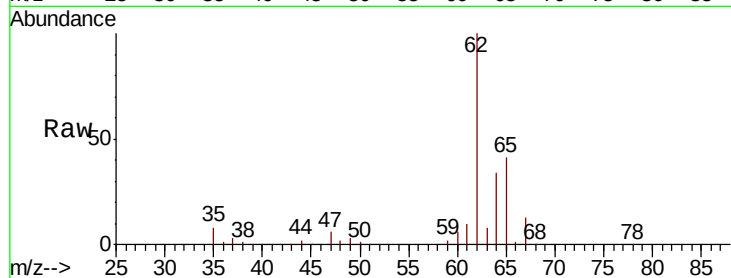
ClientSampled :

Tot Ion: 62 Resp: 133966

Ion Ratio Lower Upper

62 100

64 34.1 23.1 42.9



#6

Bromomethane

Concen: 38.091 ug/L

RT: 1.84 min Scan# 157

Delta R.T. -0.03 min

Lab File: VU037018.D

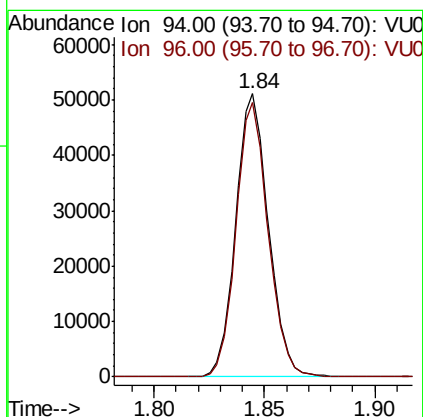
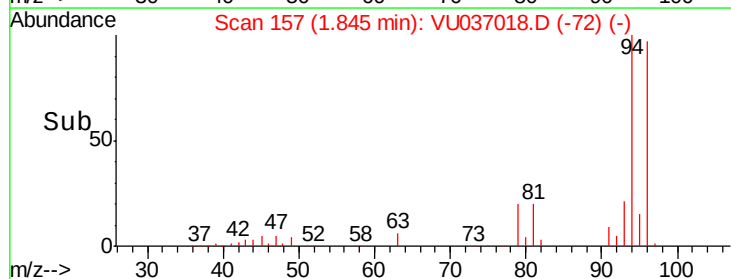
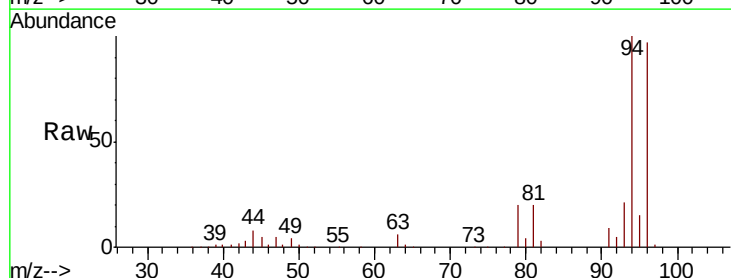
Acq: 03 Mar 2020 11:04

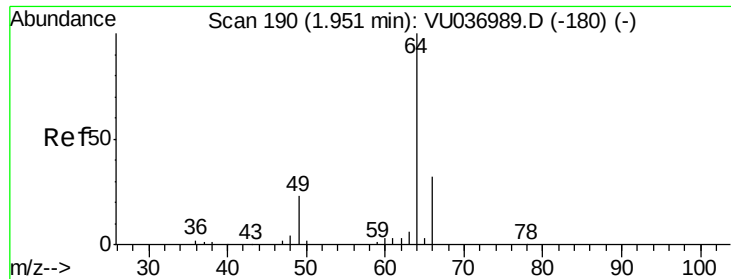
Tgt Ion: 94 Resp: 52710

Ion Ratio Lower Upper

94 100

96 97.0 66.1 122.8

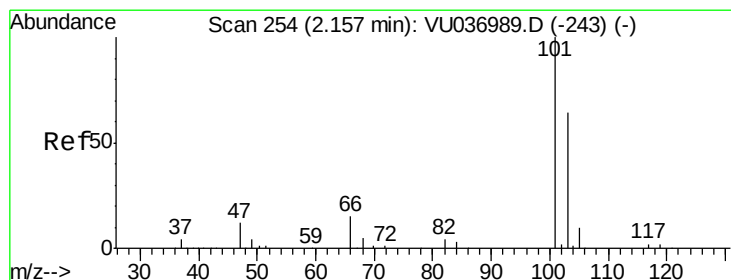
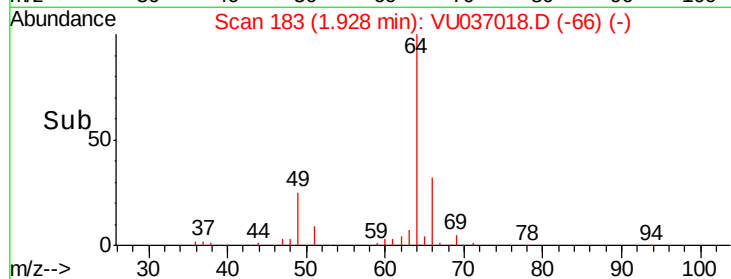
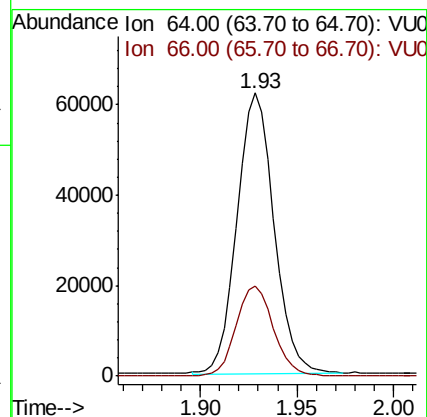
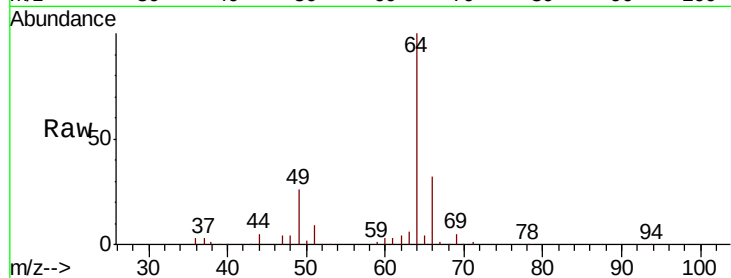




#8
Chloroethane
Concen: 50.702 ug/L
RT: 1.93 min Scan# 183
Delta R.T. -0.02 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

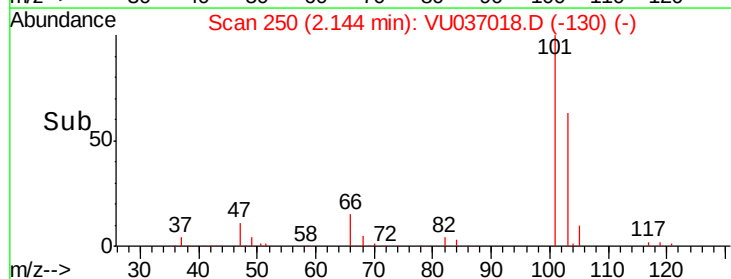
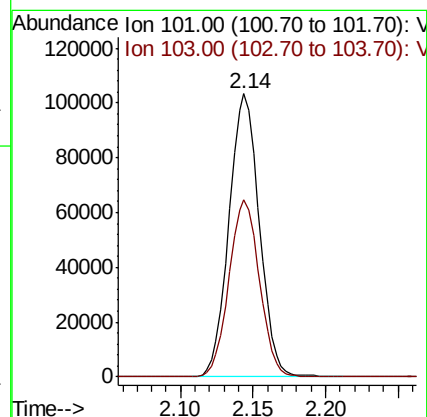
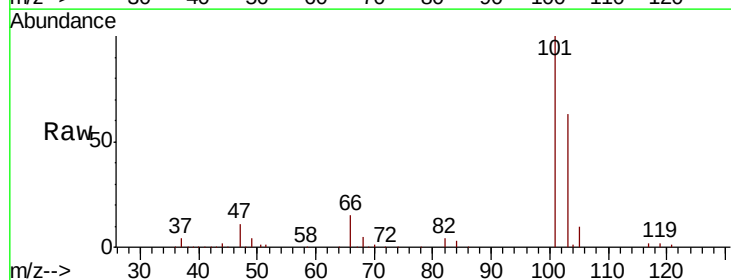
Instrument :
MSVOA_U
ClientSampleId :

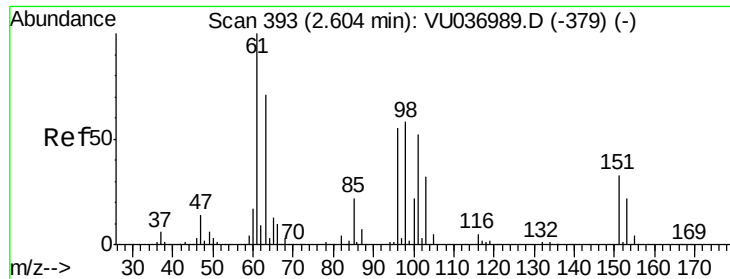
Tot Ion: 64 Resp: 81971
Ion Ratio Lower Upper
64 100
66 31.9 22.5 41.9



#9
Trichlorofluoromethane
Concen: 52.291 ug/L
RT: 2.14 min Scan# 250
Delta R.T. -0.01 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

Tgt Ion:101 Resp: 149577
Ion Ratio Lower Upper
101 100
103 62.7 50.9 76.3





#10

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

Concen: 52.467 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

ClientSampleId :

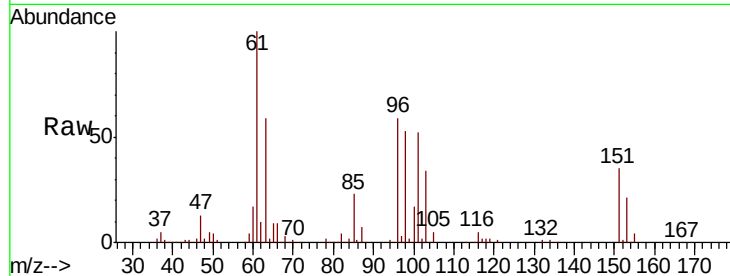
Tot Ion:101 Resp: 89777

Ion Ratio Lower Upper

101 100

85 45.6 36.4 54.6

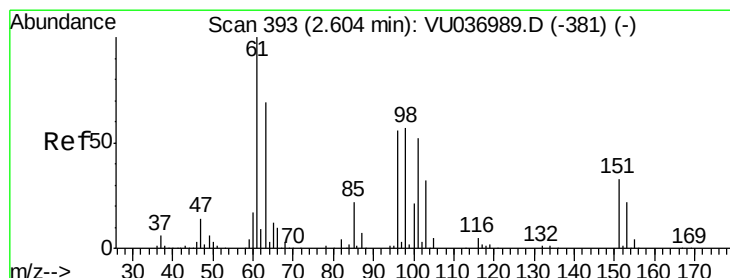
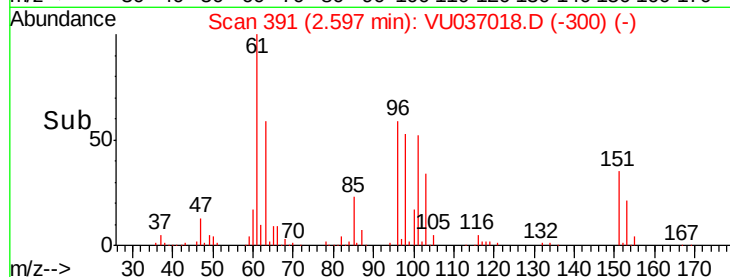
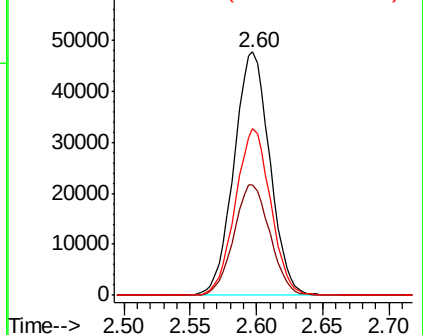
151 67.3 52.4 78.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 50.834 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

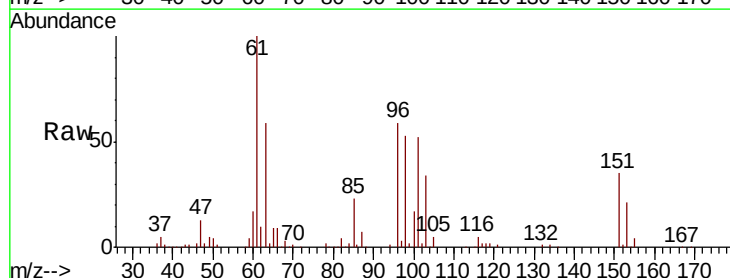
Tgt Ion: 96 Resp: 87978

Ion Ratio Lower Upper

96 100

61 169.2 127.5 236.7

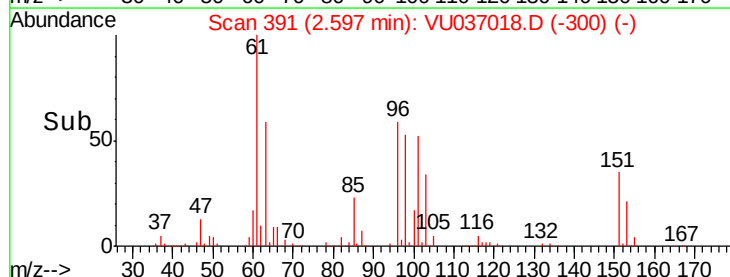
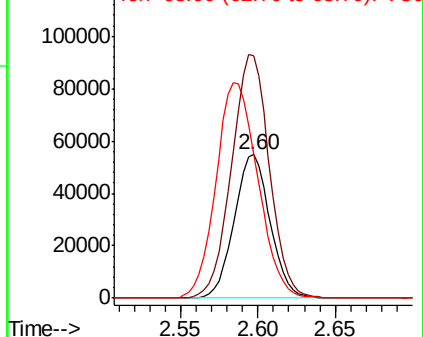
63 100.6 101.4 188.2#

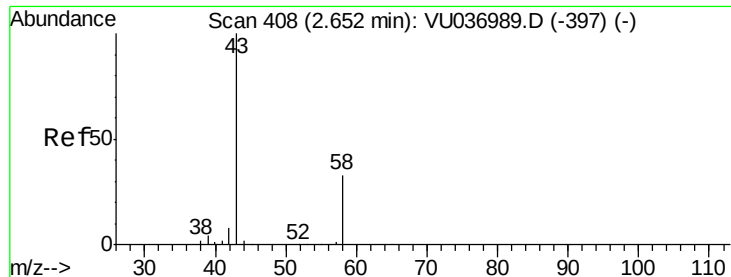


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 102.676 ug/L

RT: 2.65 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

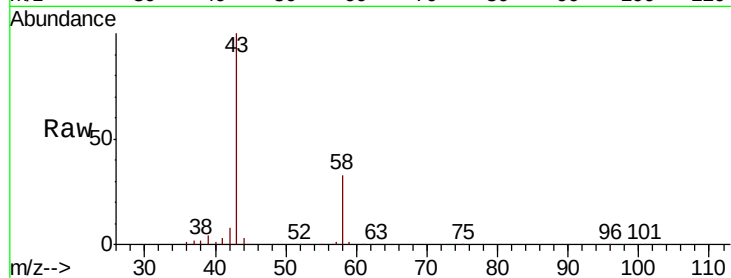
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 159407

Ion Ratio Lower Upper

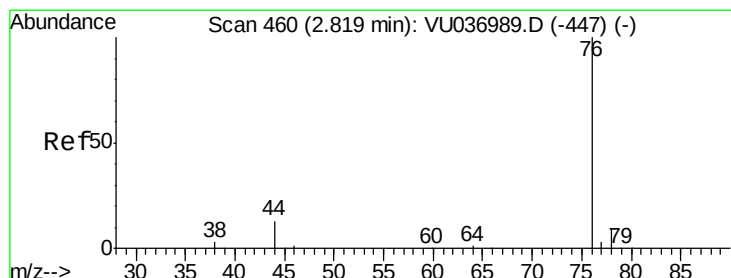
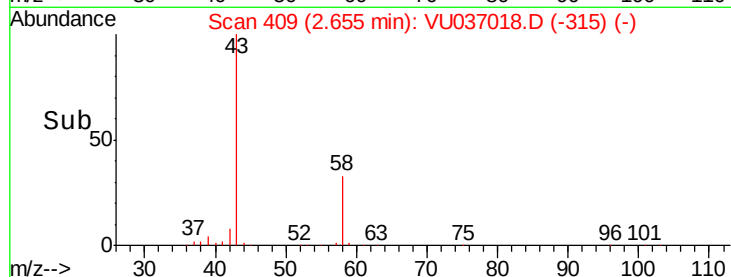
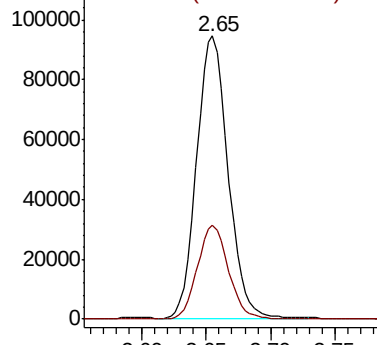
43 100

58 33.0 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#14

Carbon disulfide

Concen: 46.026 ug/L

RT: 2.81 min Scan# 458

Delta R.T. -0.01 min

Lab File: VU037018.D

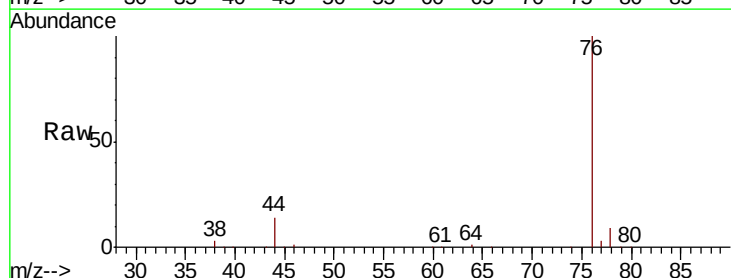
Acq: 03 Mar 2020 11:04

Tgt Ion: 76 Resp: 252028

Ion Ratio Lower Upper

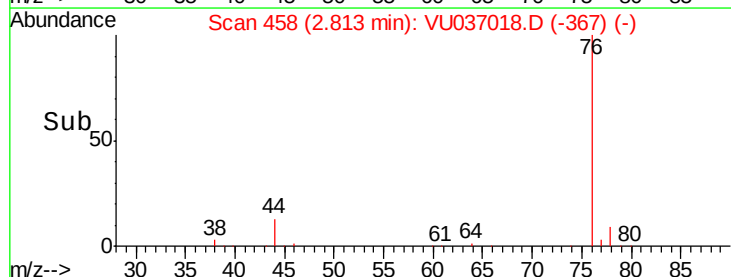
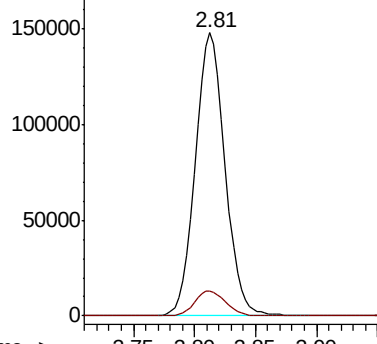
76 100

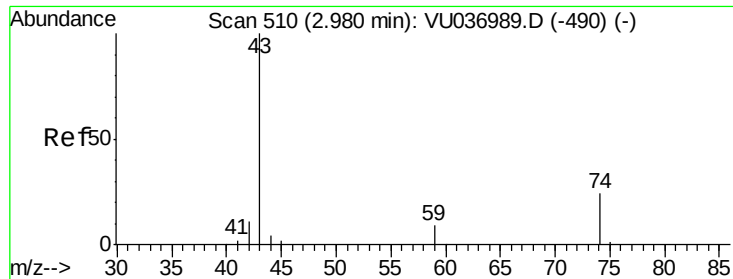
78 8.9 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU0

Ion 78.00 (77.70 to 78.70): VU0

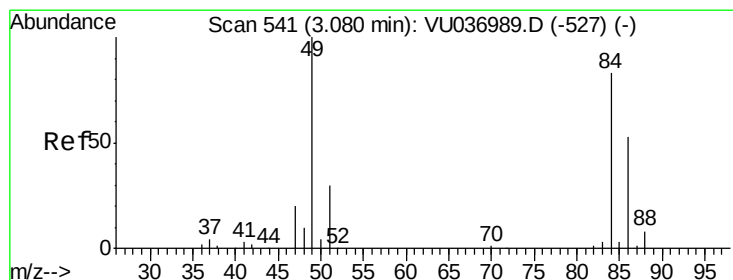
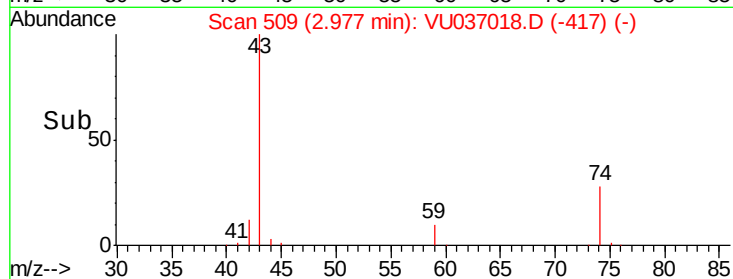
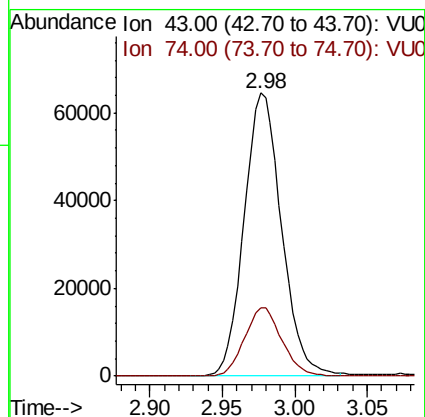
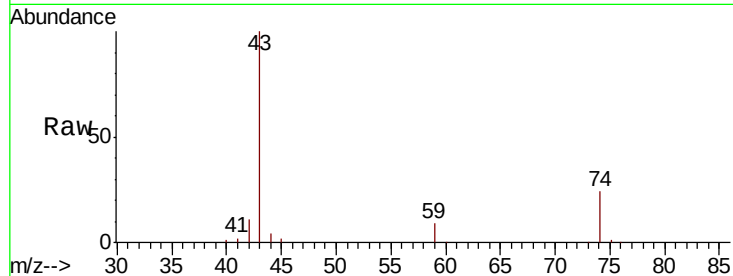




#15
Methvl Acetate
Concen: 49.053 ug/L
RT: 2.98 min Scan# 509
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

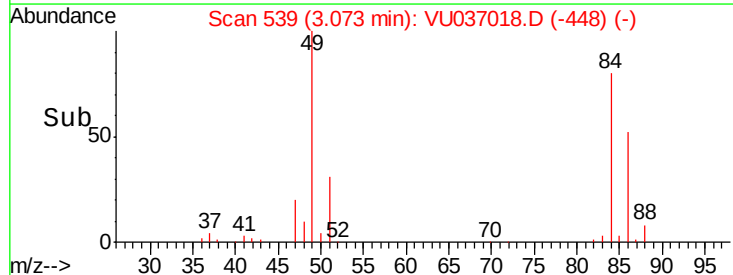
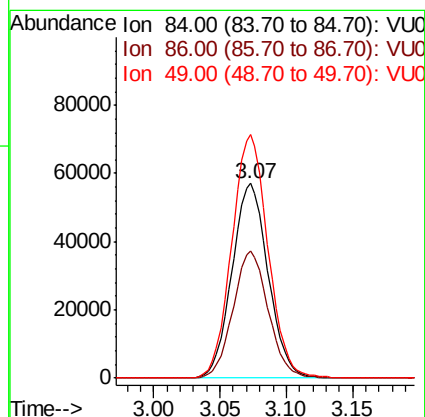
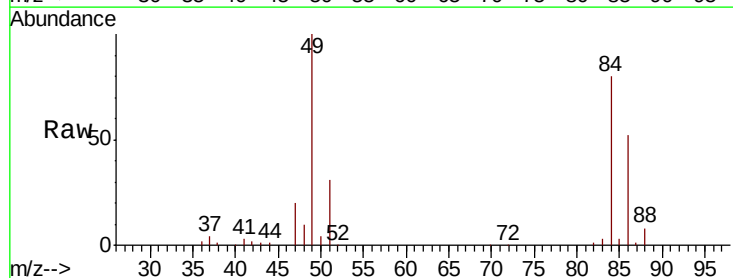
Instrument :
MSVOA_U
ClientSampleId :

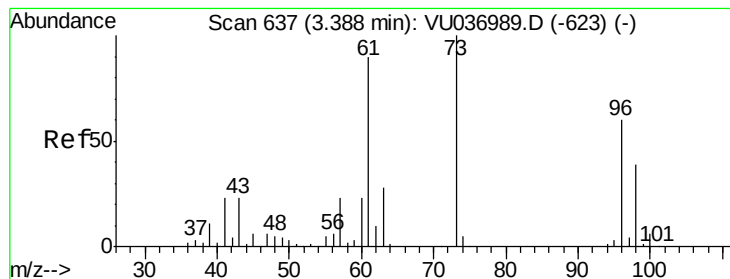
Tot Ion: 43 Resp: 116079
Ion Ratio Lower Upper
43 100
74 24.2 19.0 28.4



#16
Methylene chloride
Concen: 51.296 ug/L
RT: 3.07 min Scan# 539
Delta R.T. -0.01 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

Tgt Ion: 84 Resp: 108282
Ion Ratio Lower Upper
84 100
86 65.2 44.4 82.5
49 125.0 85.9 159.5





#17

trans-1,2-Dichloroethene

Concen: 49.416 ug/L

RT: 3.38 min Scan# 635

Delta R.T. -0.01 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

ClientSampled :

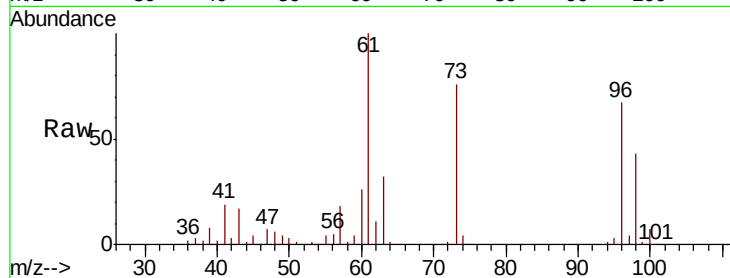
Tot Ion: 96 Resp: 91872

Ion Ratio Lower Upper

96 100

61 148.3 103.8 192.8

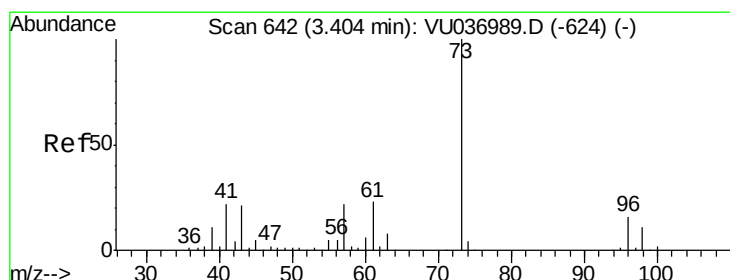
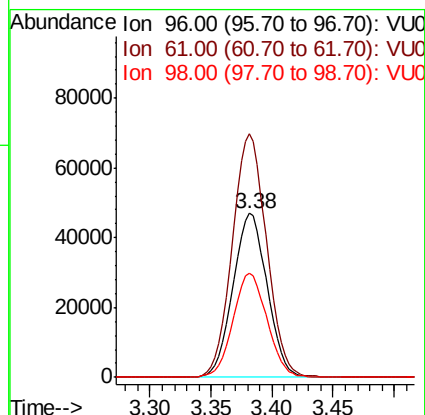
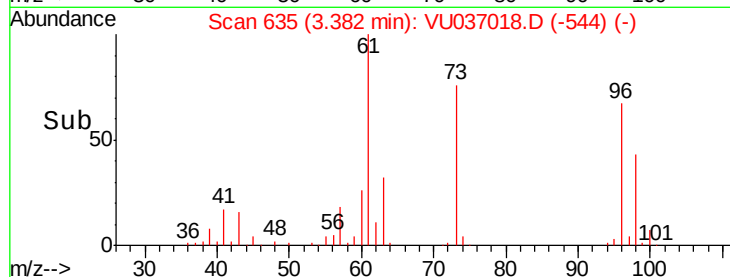
98 63.7 44.2 82.2



Abundance Ion 96.00 (95.70 to 96.70): VU037018.D (-544) (-)

Ion 61.00 (60.70 to 61.70): VU037018.D (-544) (-)

Ion 98.00 (97.70 to 98.70): VU037018.D (-544) (-)



#18

Methyl tert-butyl Ether

Concen: 50.654 ug/L

RT: 3.40 min Scan# 641

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

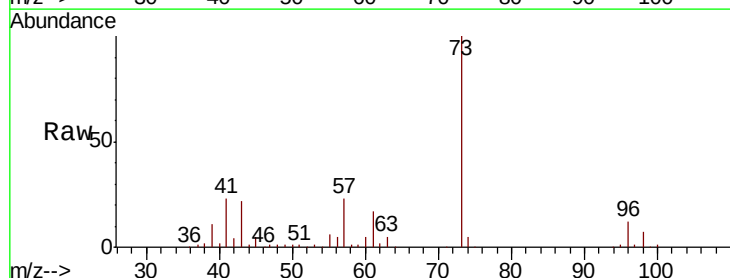
Tgt Ion: 73 Resp: 306124

Ion Ratio Lower Upper

73 100

43 22.0 18.1 27.1

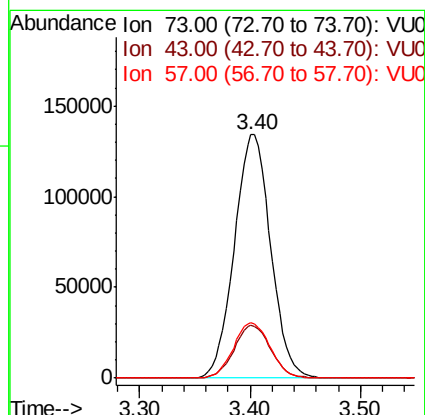
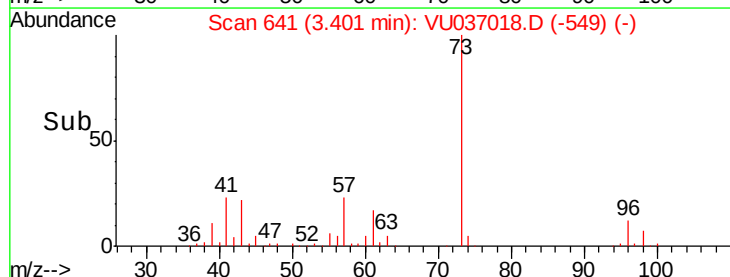
57 23.0 18.4 27.6

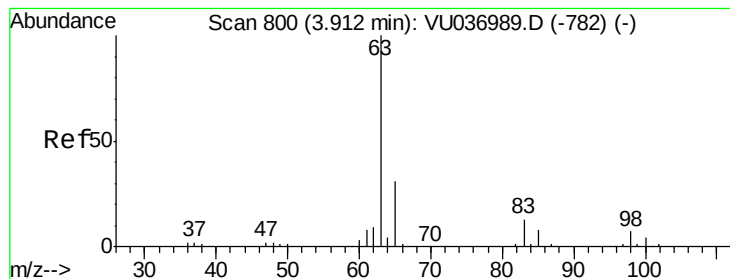


Abundance Ion 73.00 (72.70 to 73.70): VU037018.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037018.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037018.D (-549) (-)





#19

1,1-Dichloroethane

Concen: 51.530 ug/L

RT: 3.91 min Scan# 798

Delta R.T. -0.01 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

ClientSampled :

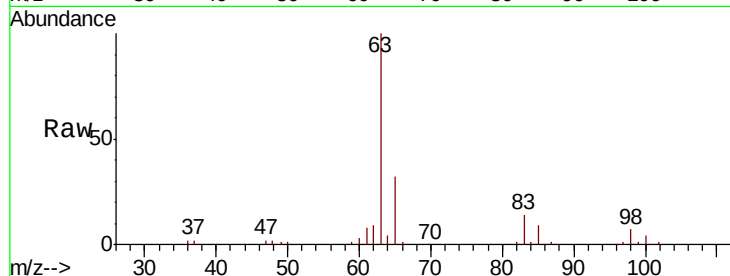
Tot Ion: 63 Resp: 186155

Ion Ratio Lower Upper

63 100

65 31.8 21.3 39.5

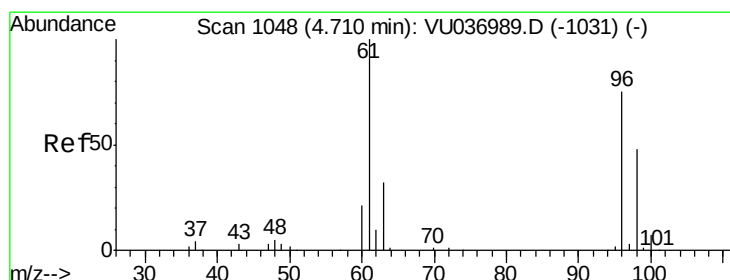
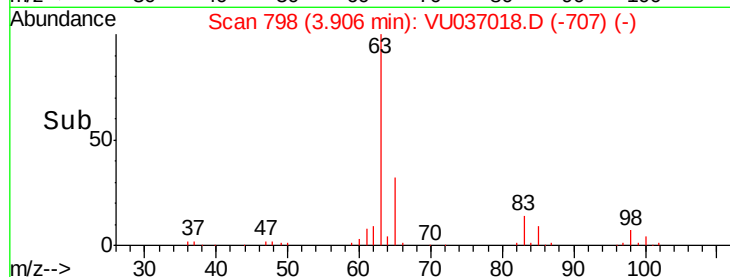
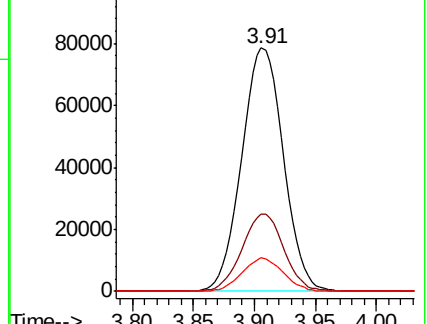
83 13.6 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VU037018.D (-955) (-)

Ion 65.00 (64.70 to 65.70): VU037018.D (-955) (-)

Ion 83.00 (82.70 to 83.70): VU037018.D (-955) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.916 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

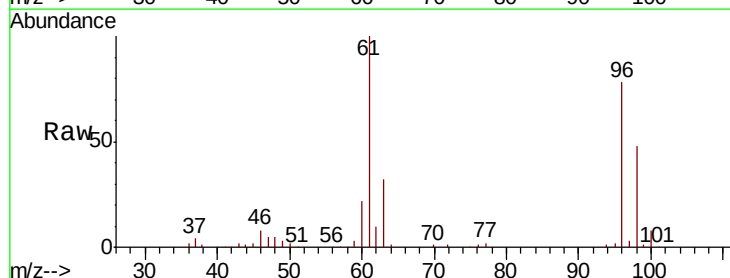
Tgt Ion: 96 Resp: 107926

Ion Ratio Lower Upper

96 100

61 128.8 93.1 172.9

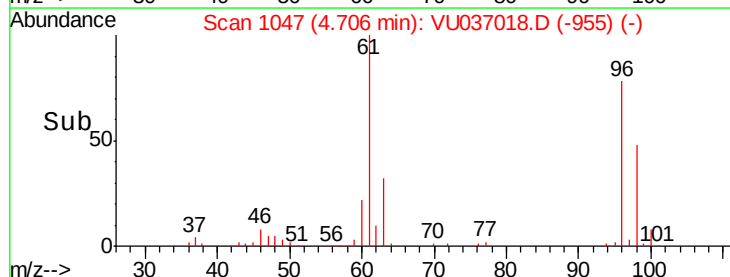
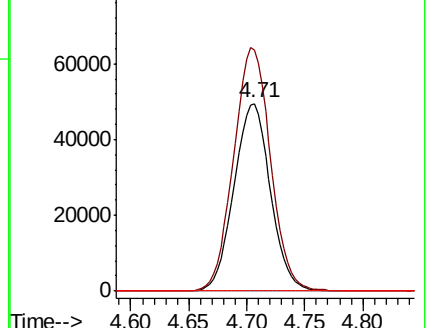
68 0.0 0.0 0.0

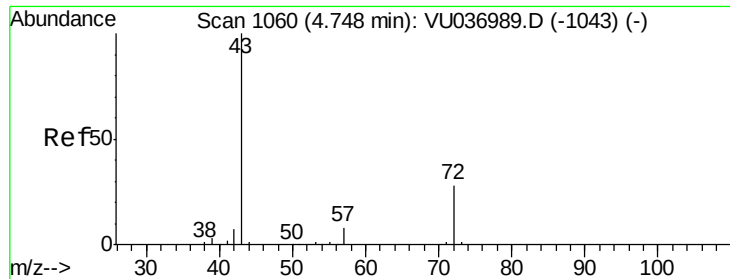


Abundance Ion 96.00 (95.70 to 96.70): VU037018.D (-955) (-)

Ion 61.00 (60.70 to 61.70): VU037018.D (-955) (-)

Ion 68.00 (67.70 to 68.70): VU037018.D (-955) (-)





#22

2-Butanone

Concen: 101.292 ug/L

RT: 4.75 min Scan# 1060

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

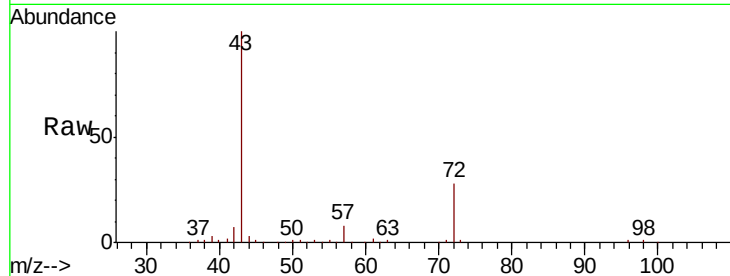
ClientSampleId :

Tot Ion: 43 Resp: 189634

Ion Ratio Lower Upper

43 100

72 28.1 13.9 41.6



Abundance Ion 43.00 (42.70 to 43.70): VU037018.D (-967) (-)

Ion 72.00 (71.70 to 72.70): VU037018.D (-967) (-)

4.75

80000

60000

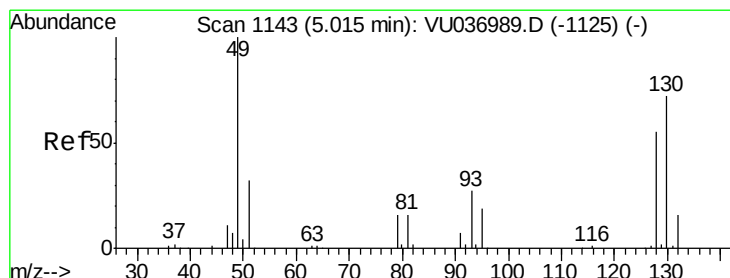
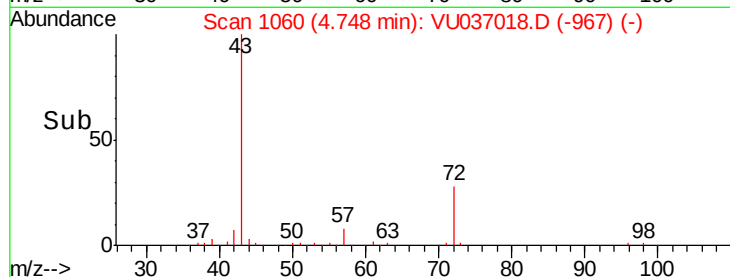
40000

20000

0

4.70 4.80 4.90

Time-->



#23

Bromochloromethane

Concen: 53.029 ug/L

RT: 5.01 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Tgt Ion:128 Resp: 49924

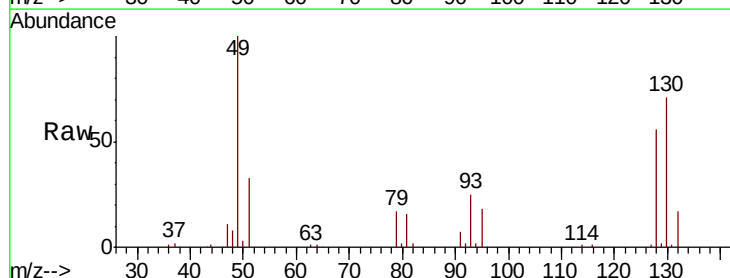
Ion Ratio Lower Upper

128 100

49 179.9 126.5 234.9

130 127.2 86.0 159.8

51 58.6 47.3 70.9



Abundance Ion 128.00 (127.70 to 128.70): VU037018.D (-1050) (-)

Ion 49.00 (48.70 to 49.70): VU037018.D (-1050) (-)

Ion 130.00 (129.70 to 130.70): VU037018.D (-1050) (-)

Ion 51.00 (50.70 to 51.70): VU037018.D (-1050) (-)

5.01

60000

50000

40000

30000

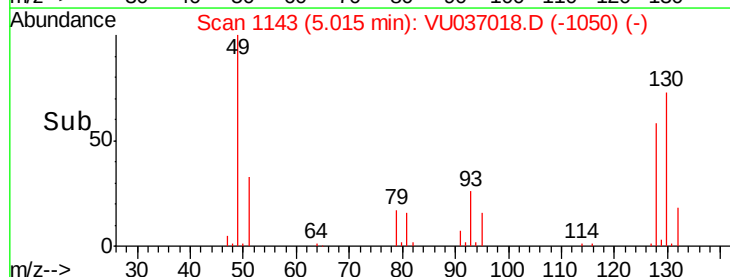
20000

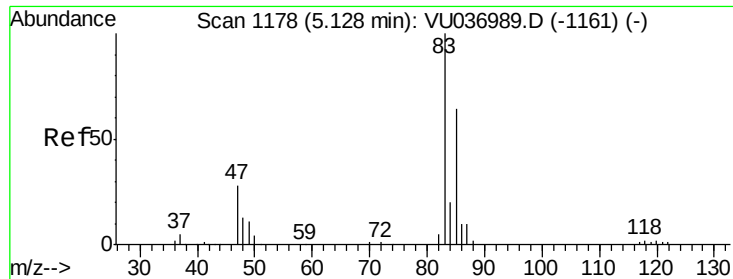
10000

0

4.95 5.00 5.05 5.10

Time-->

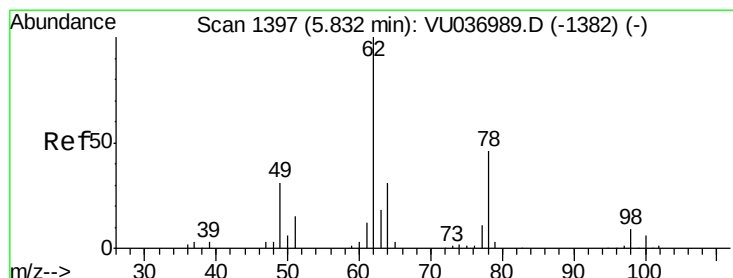
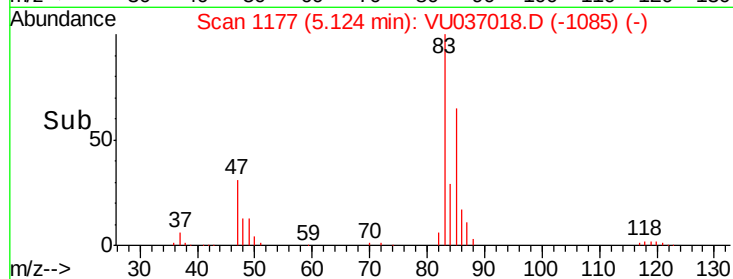
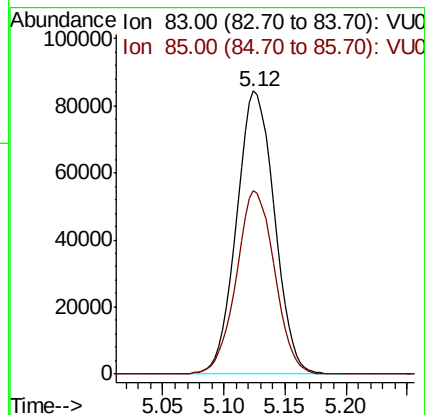
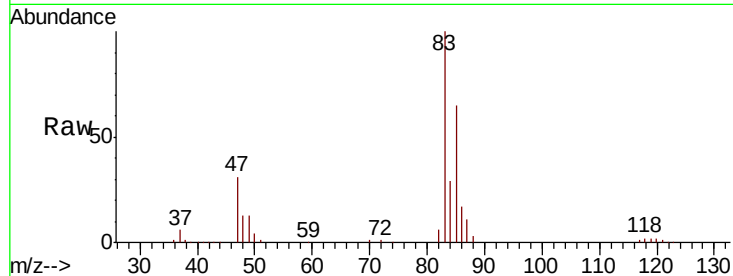




#25
Chloroform
Concen: 52.119 ug/L
RT: 5.12 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

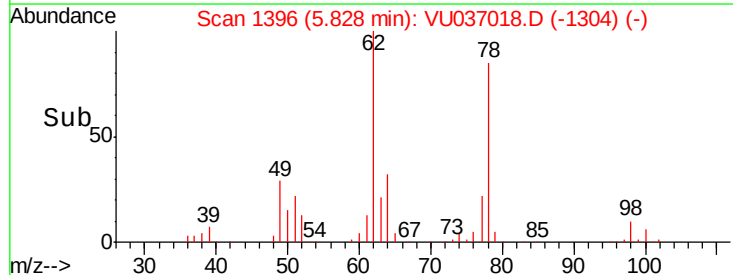
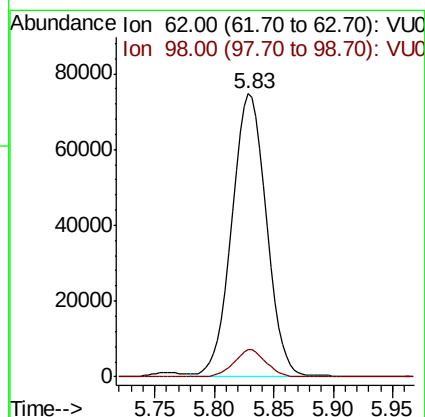
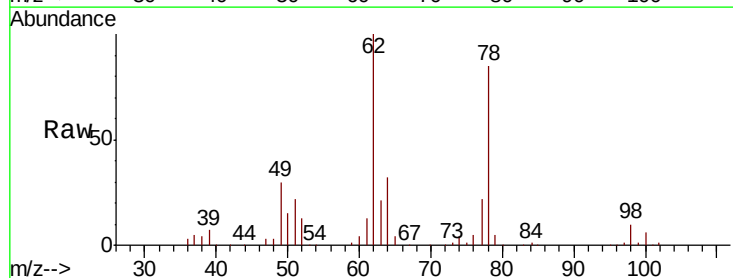
Instrument :
MSVOA_U
ClientSampleId :

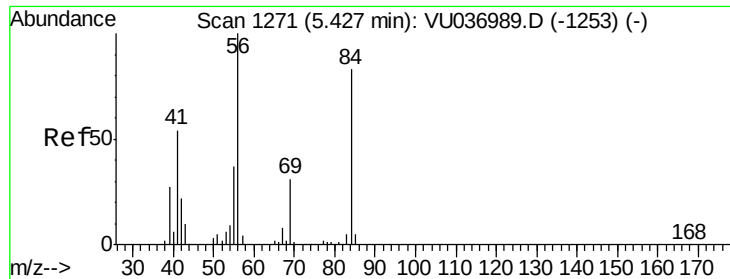
Tot Ion: 83 Resp: 181668
Ion Ratio Lower Upper
83 100
85 64.8 45.1 83.9



#27
1,2-Dichloroethane
Concen: 52.877 ug/L
RT: 5.83 min Scan# 1396
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

Tgt Ion: 62 Resp: 150051
Ion Ratio Lower Upper
62 100
98 9.5 7.1 10.7

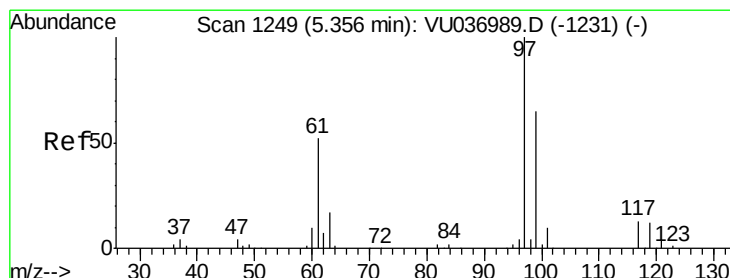
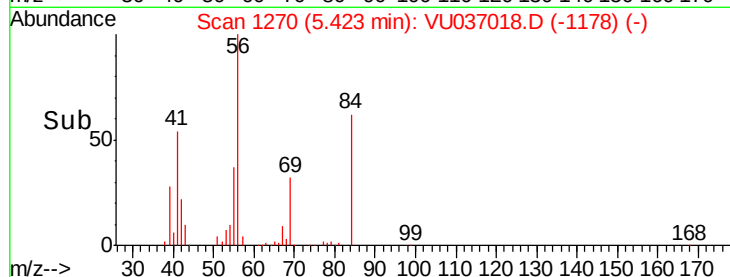
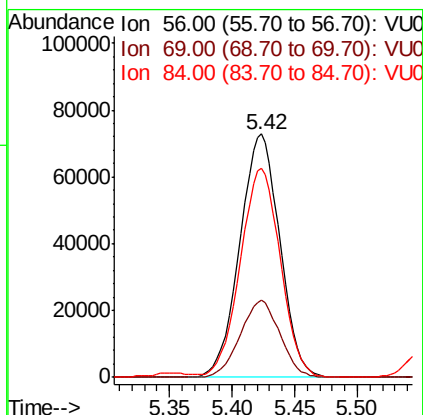
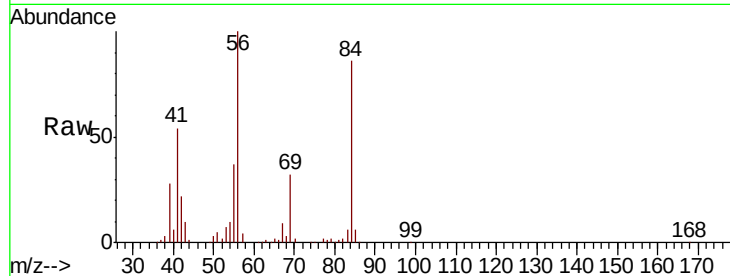




#29
Cyclohexane
Concen: 46.882 ug/L
RT: 5.42 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

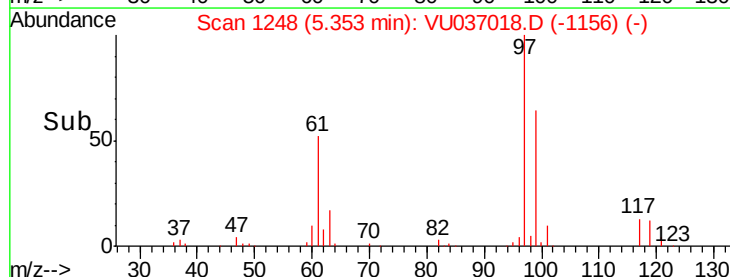
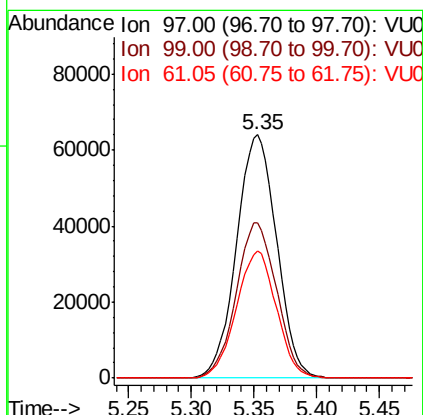
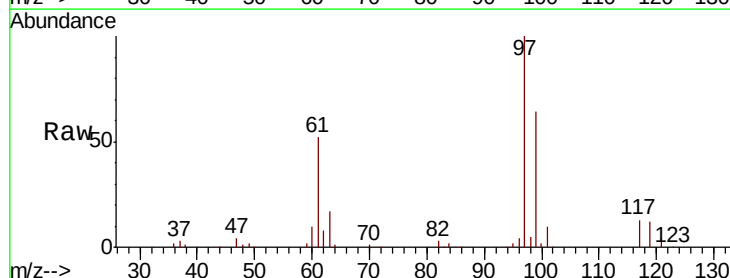
Instrument :
MSVOA_U
ClientSampleId :

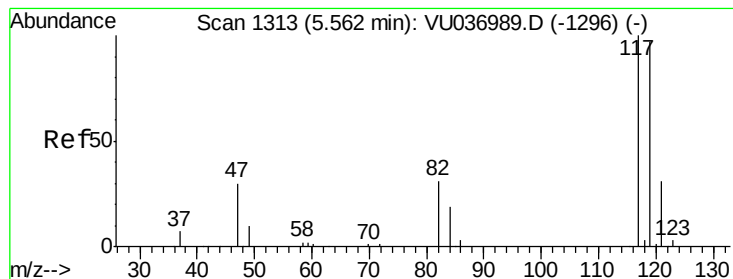
Tot Ion: 56 Resp: 161507
Ion Ratio Lower Upper
56 100
69 31.3 24.6 37.0
84 85.8 67.0 100.4



#30
1,1,1-Trichloroethane
Concen: 51.207 ug/L
RT: 5.35 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

Tgt Ion: 97 Resp: 142528
Ion Ratio Lower Upper
97 100
99 64.4 50.4 75.6
61 52.0 40.3 60.5





#31

Carbon tetrachloride

Concen: 51.283 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

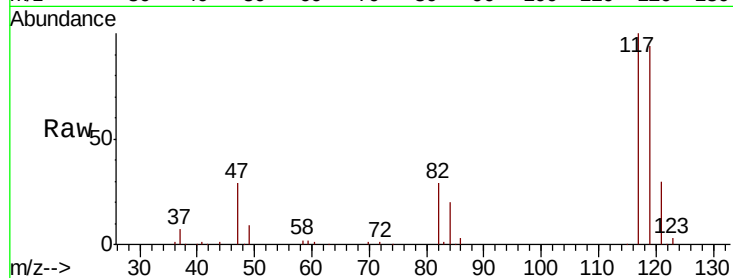
ClientSampleId :

Tot Ion:117 Resp: 111879

Ion Ratio Lower Upper

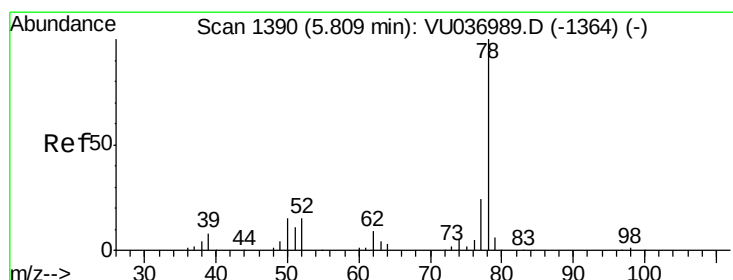
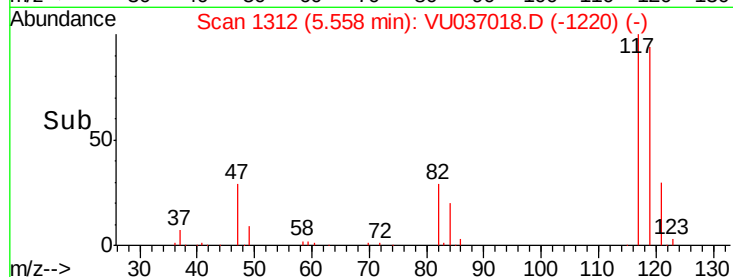
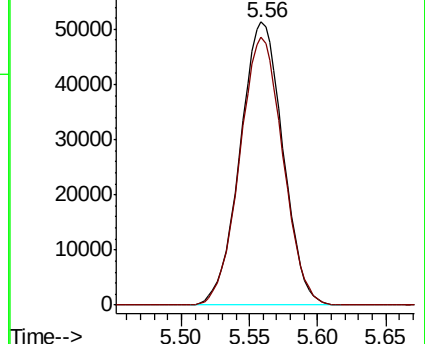
117 100

119 95.2 77.2 115.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.238 ug/L

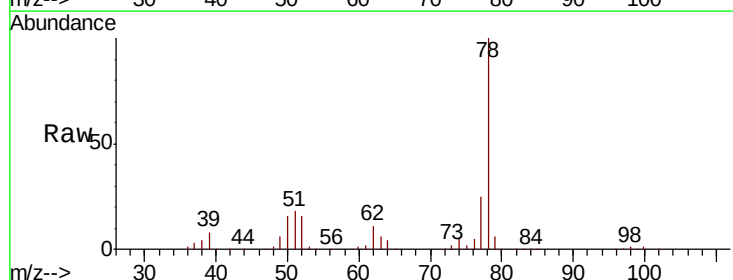
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

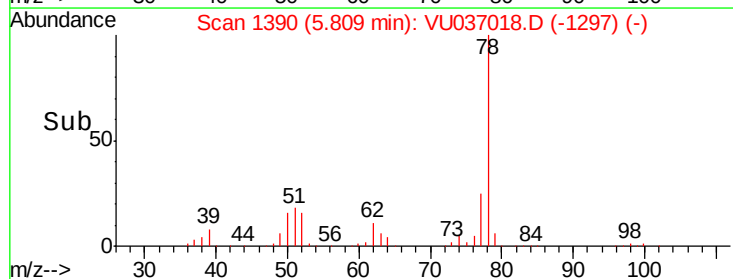
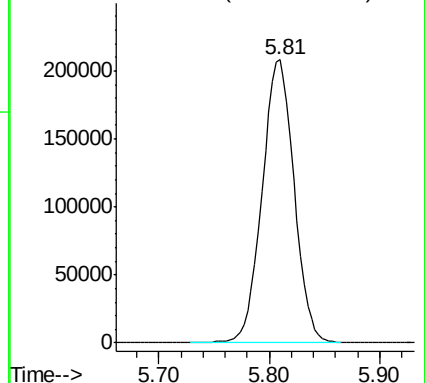
Lab File: VU037018.D

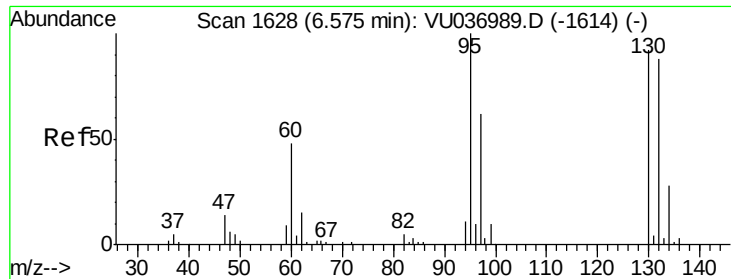
Acq: 03 Mar 2020 11:04

Tgt Ion: 78 Resp: 420214



Abundance Ion 78.00 (77.70 to 78.70): VU0

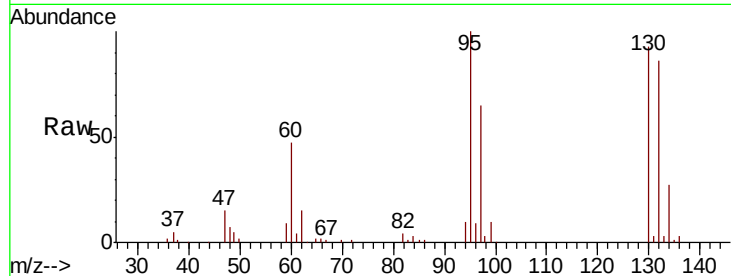




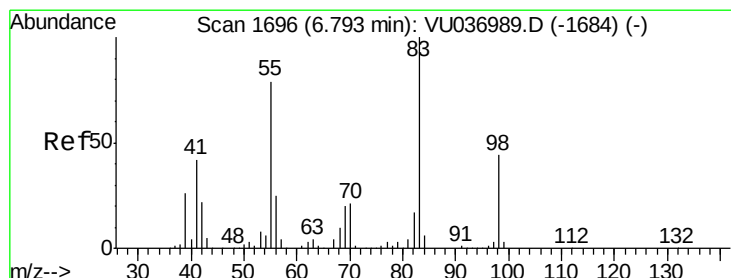
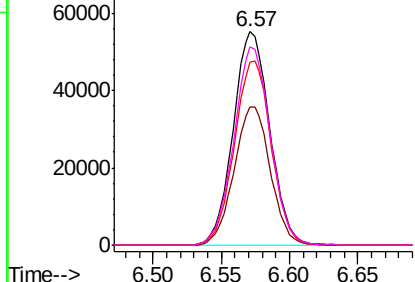
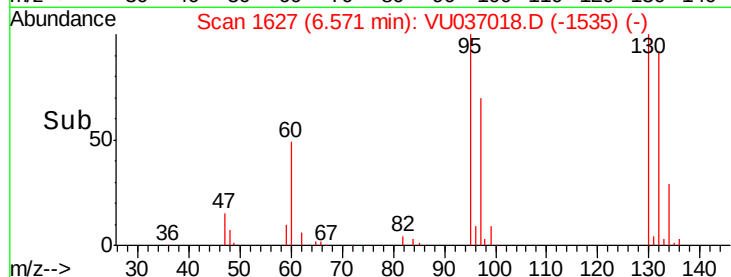
#34
 Trichloroethene
 Concen: 50.920 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU037018.D
 Acq: 03 Mar 2020 11:04

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 102641
 Ion Ratio Lower Upper
 95 100
 97 64.9 44.1 81.9
 132 85.7 60.6 112.6
 130 92.8 64.9 120.5

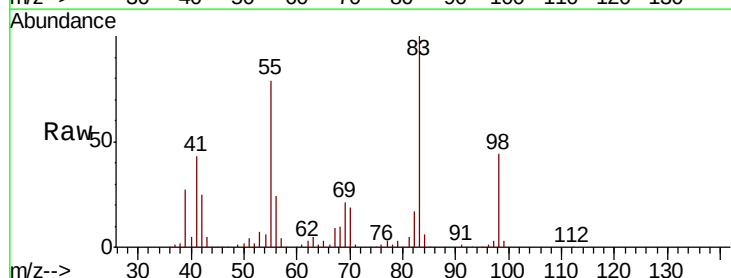


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

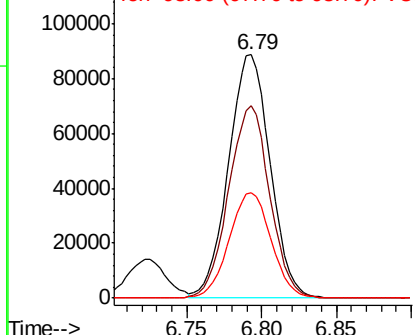
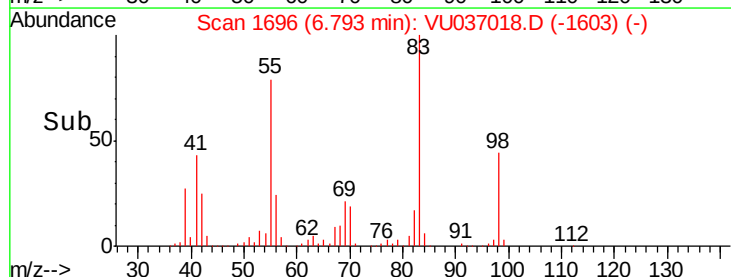


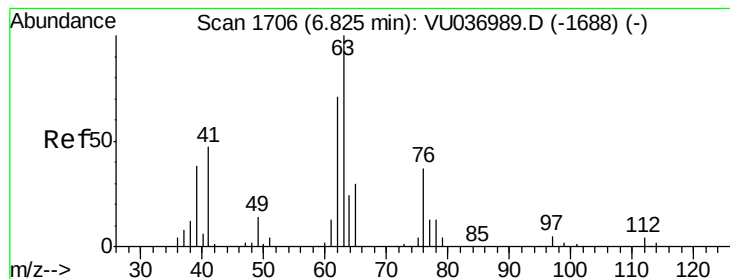
#35
 Methylcyclohexane
 Concen: 49.054 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. -0.00 min
 Lab File: VU037018.D
 Acq: 03 Mar 2020 11:04

Tgt Ion: 83 Resp: 171440
 Ion Ratio Lower Upper
 83 100
 55 78.1 62.6 93.8
 98 44.2 35.1 52.7



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





#37

1,2-Dichloropropane

Concen: 51.609 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

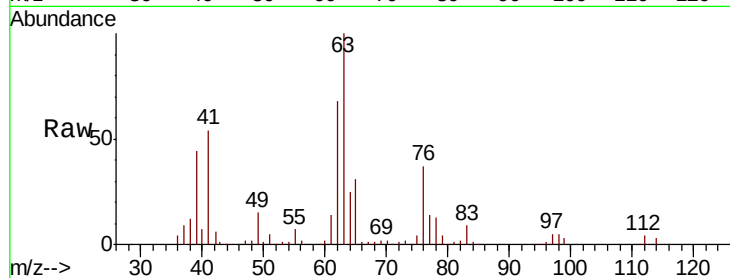
ClientSampleId :

Tot Ion: 63 Resp: 113965

Ion Ratio Lower Upper

63 100

112 3.7 3.0 4.6



Abundance Ion 63.00 (62.70 to 63.70): VU036989.D (-1688) (-)

Ion 112.00 (111.70 to 112.70): VU036989.D (-1688) (-)

60000

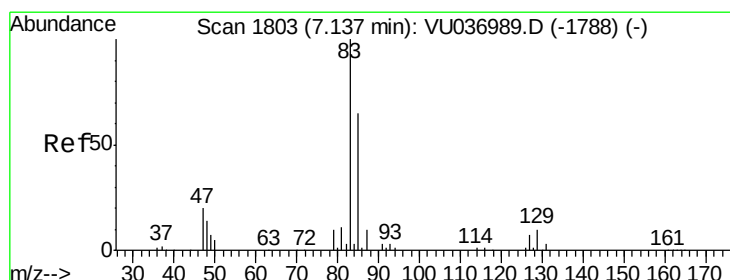
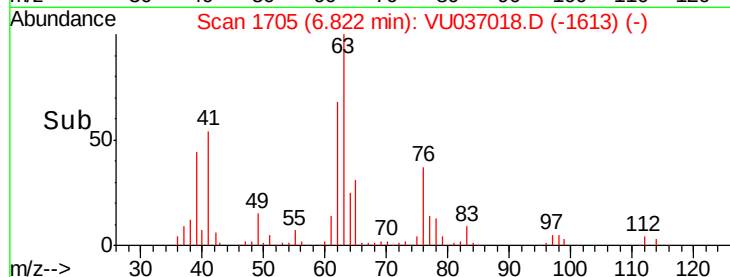
40000

20000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 51.272 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

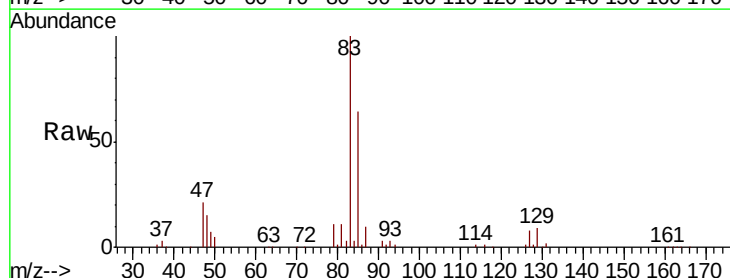
Tgt Ion: 83 Resp: 133645

Ion Ratio Lower Upper

83 100

85 64.2 43.6 81.0

127 7.7 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VU036989.D (-1788) (-)

Ion 85.00 (84.70 to 85.70): VU036989.D (-1788) (-)

Ion 127.00 (126.70 to 127.70): VU036989.D (-1788) (-)

100000

80000

60000

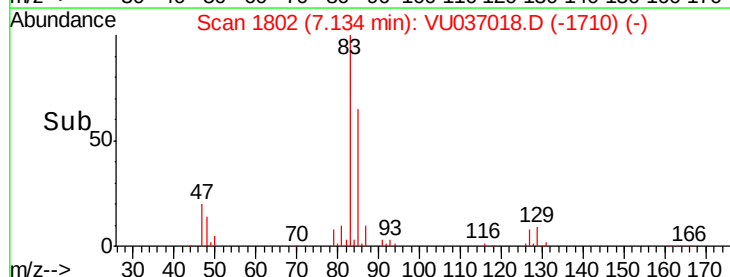
40000

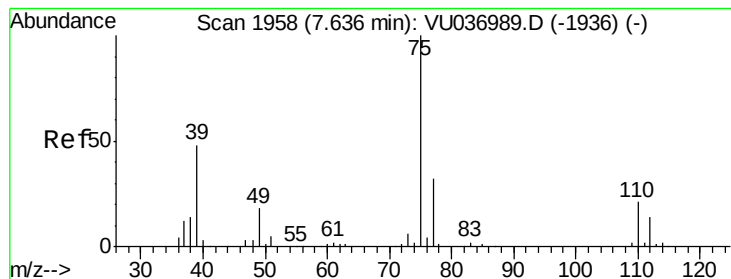
20000

0

7.05 7.10 7.15 7.20

Time-->



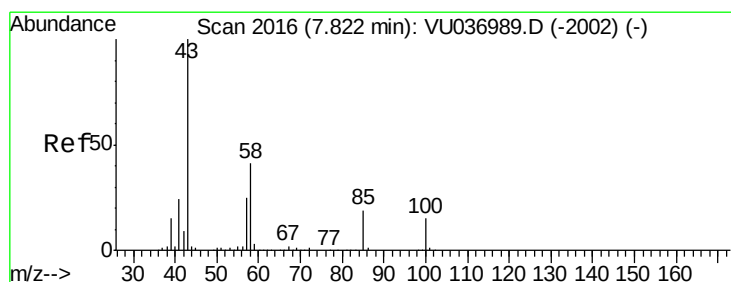
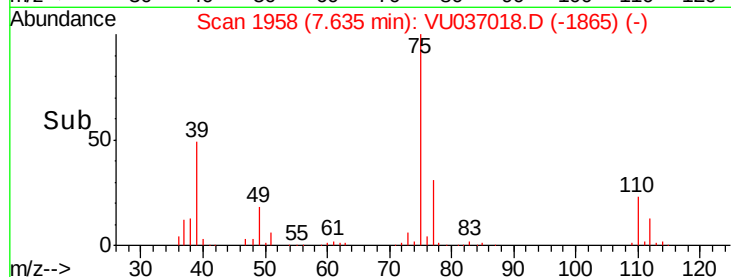
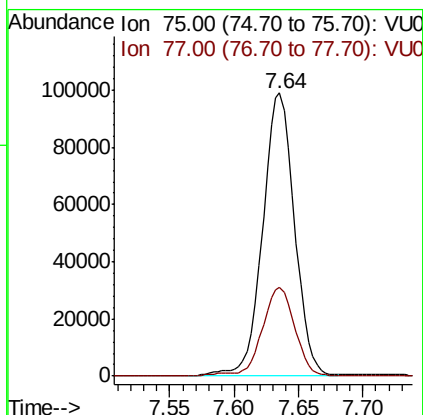
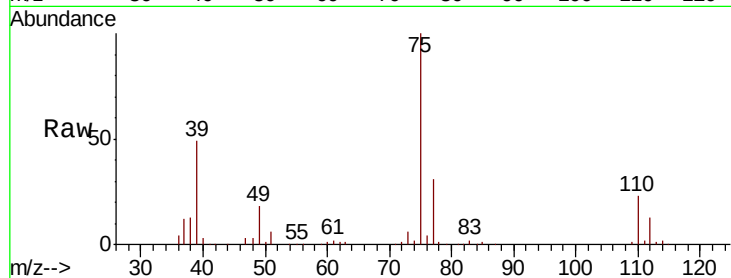


#39

cis-1,3-Dichloropropene
Concen: 50.165 ug/L
RT: 7.64 min Scan# 1958
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

Instrument :
MSVOA_U
ClientSampled :

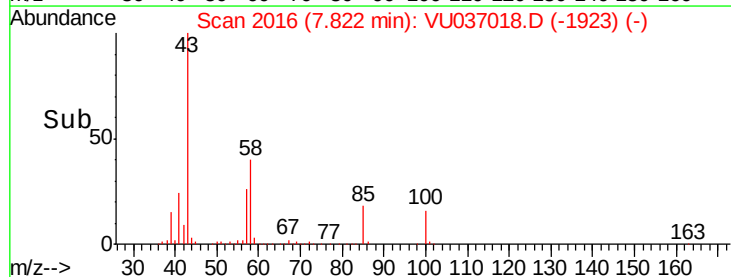
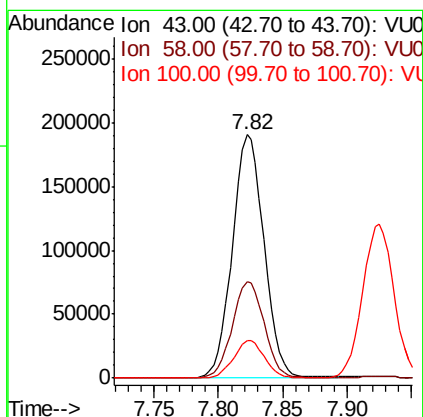
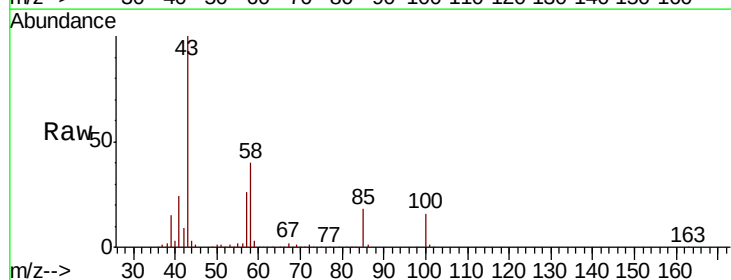
Tot Ion: 75 Resp: 170640
Ion Ratio Lower Upper
75 100
77 31.3 22.0 41.0

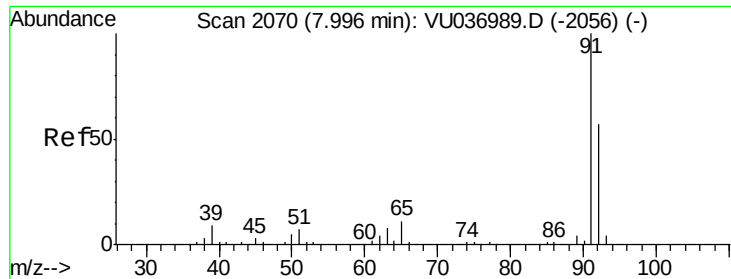


#40

4-Methyl-2-pentanone
Concen: 100.357 ug/L
RT: 7.82 min Scan# 2016
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

Tgt Ion: 43 Resp: 326548
Ion Ratio Lower Upper
43 100
58 39.8 31.8 47.6
100 15.1 11.5 17.3





#42

Toluene

Concen: 52.027 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

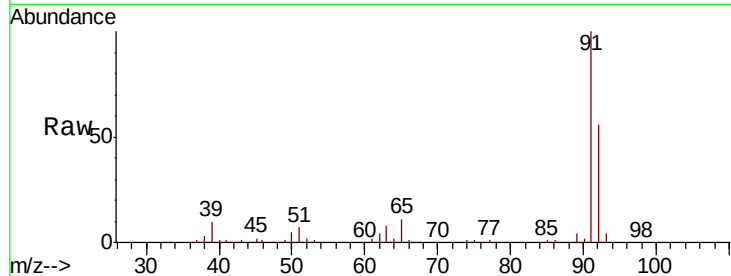
ClientSampleId :

Tot Ion: 91 Resp: 454587

Ion Ratio Lower Upper

91 100

92 56.2 39.4 73.2



Abundance Ion 91.00 (90.70 to 91.70): VU036989.D (-2056) (-)

Ion 92.00 (91.70 to 92.70): VU036989.D (-2056) (-)

8.00

250000

200000

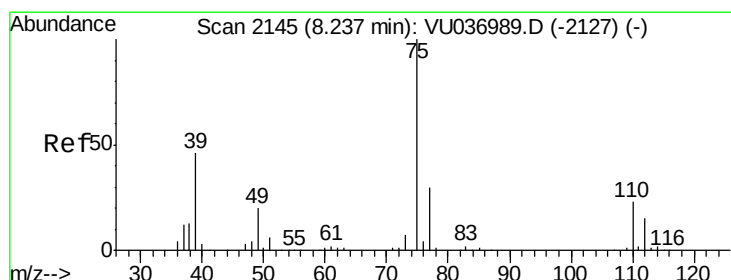
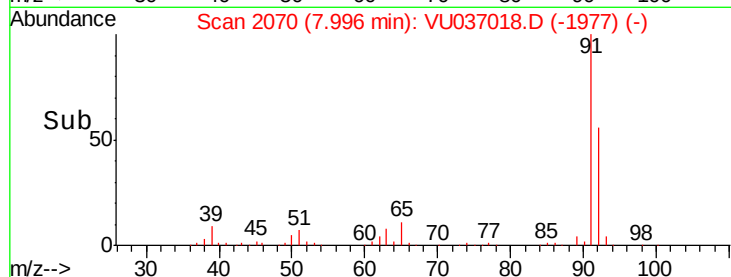
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#44

trans-1,3-Dichloropropene

Concen: 51.153 ug/L

RT: 8.24 min Scan# 2145

Delta R.T. -0.00 min

Lab File: VU037018.D

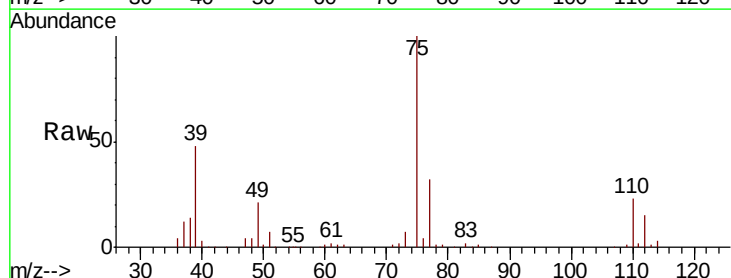
Acq: 03 Mar 2020 11:04

Tgt Ion: 75 Resp: 150942

Ion Ratio Lower Upper

75 100

77 32.4 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VU036989.D (-2127) (-)

Ion 77.00 (76.70 to 77.70): VU036989.D (-2127) (-)

8.24

100000

80000

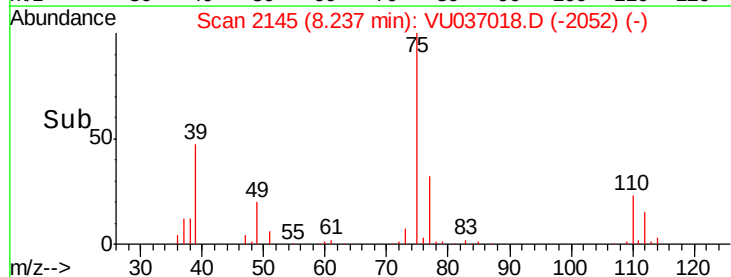
60000

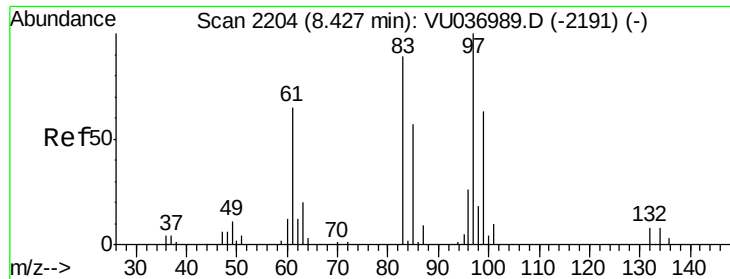
40000

20000

0

Time--> 8.15 8.20 8.25 8.30

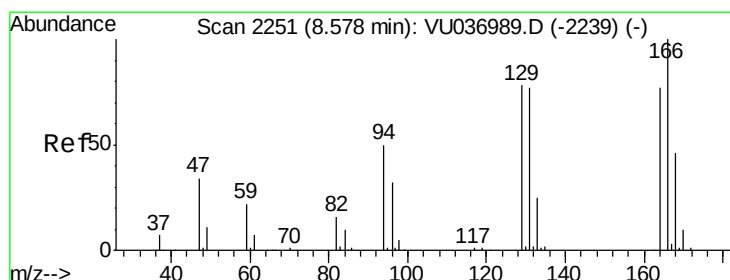
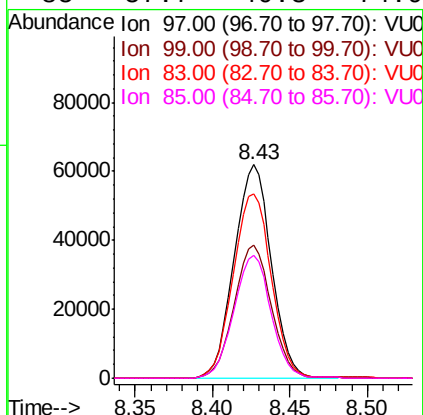
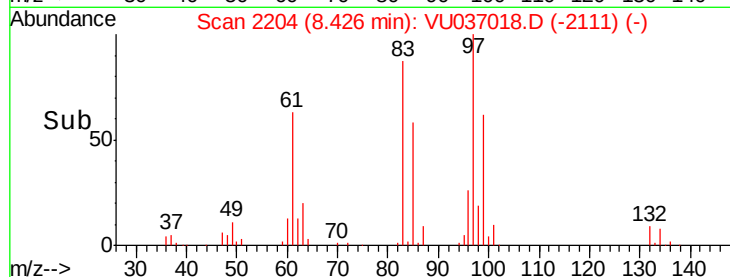
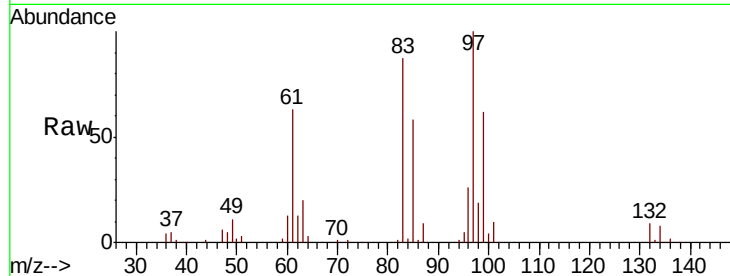




#45
1,1,2-Trichloroethane
Concen: 52.806 ug/L
RT: 8.43 min Scan# 2204
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

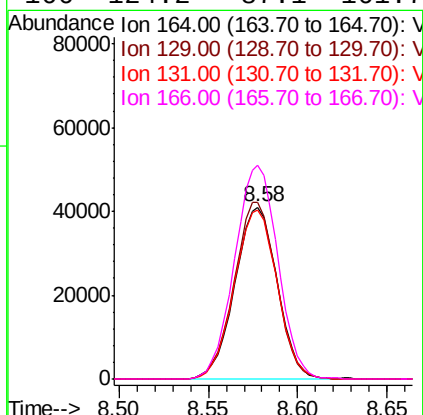
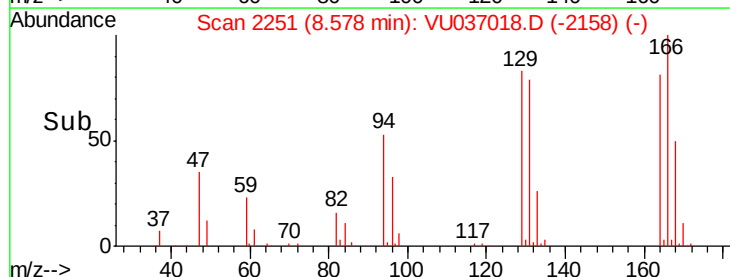
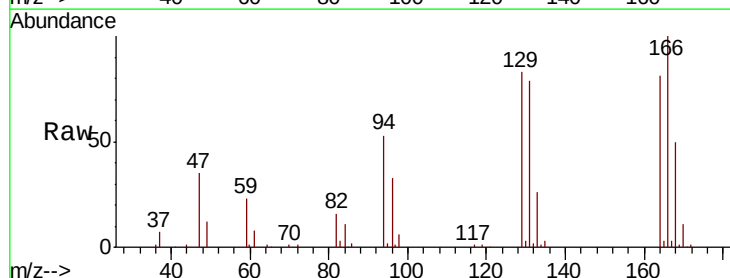
Instrument :
MSVOA_U
ClientSampleId :

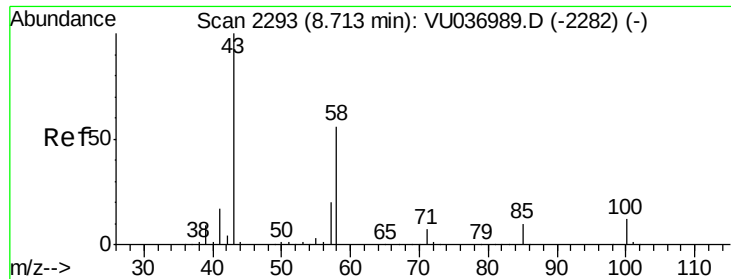
Tot Ion:	97	Resp:	103694
Ion	Ratio	Lower	Upper
97	100		
99	62.3	43.6	81.0
83	86.6	62.7	116.5
85	57.7	40.3	74.9



#46
Tetrachloroethene
Concen: 51.071 ug/L
RT: 8.58 min Scan# 2251
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

Tgt Ion:	164	Resp:	67817
Ion	Ratio	Lower	Upper
164	100		
129	102.8	72.0	133.8
131	98.5	67.9	126.1
166	124.2	87.1	161.7

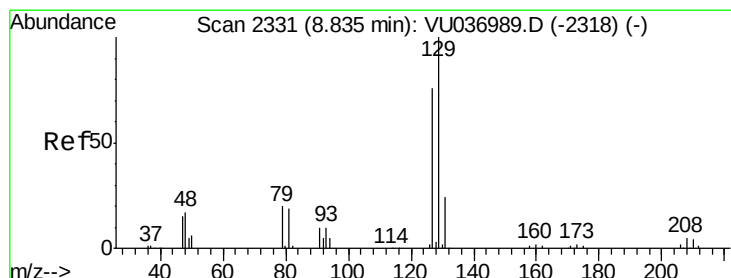
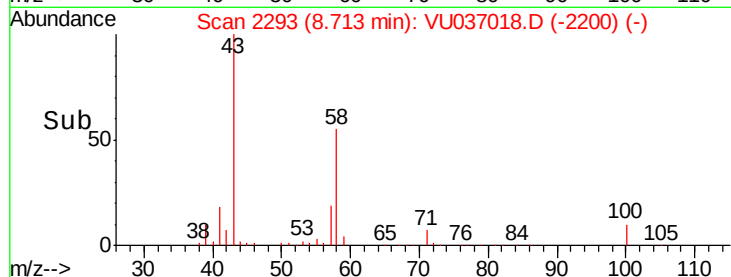
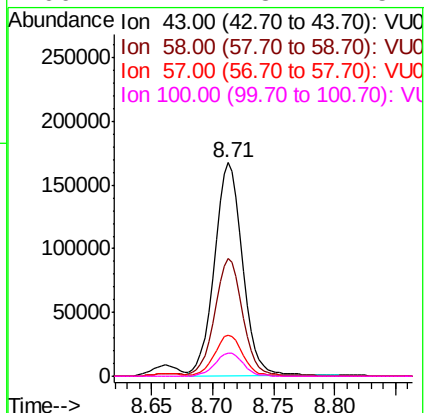
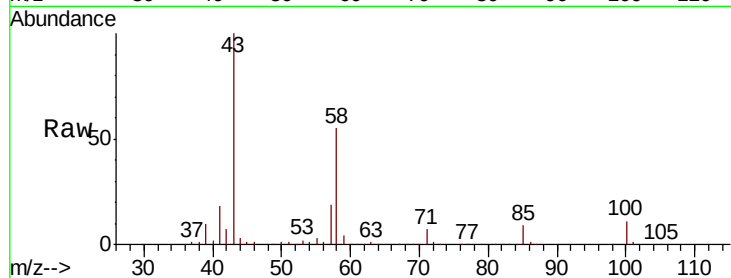




#48
2-Hexanone
Concen: 104.502 ug/L
RT: 8.71 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

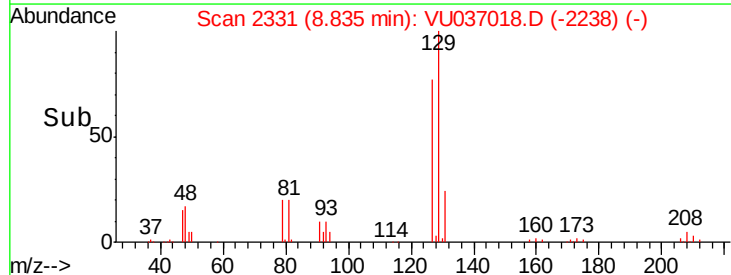
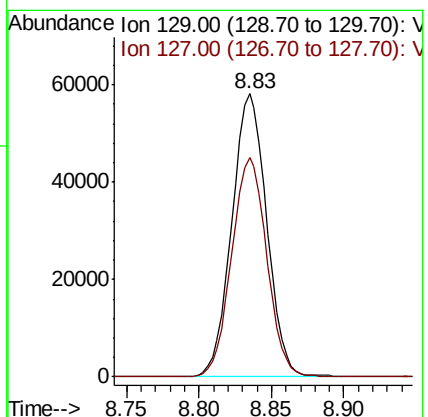
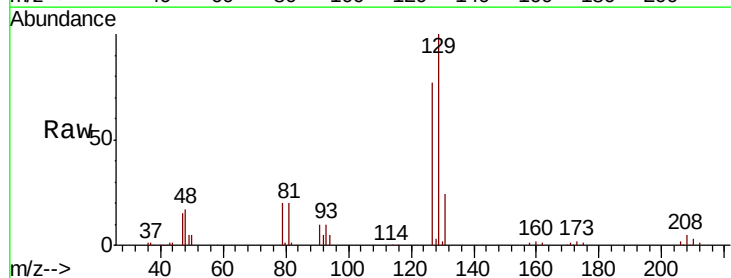
Instrument :
MSVOA_U
ClientSampleId :

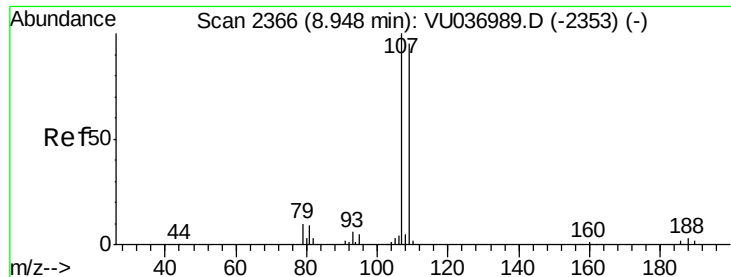
Tot Ion: 43 Resp: 271347
Ion Ratio Lower Upper
43 100
58 55.7 43.5 65.3
57 19.0 15.1 22.7
100 11.1 8.7 13.1



#49
Dibromochloromethane
Concen: 52.208 ug/L
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

Tgt Ion: 129 Resp: 97309
Ion Ratio Lower Upper
129 100
127 77.5 54.3 100.8

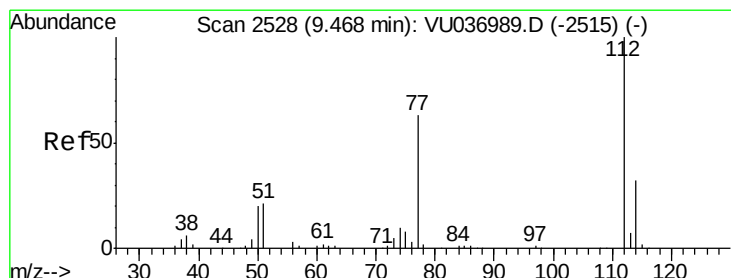
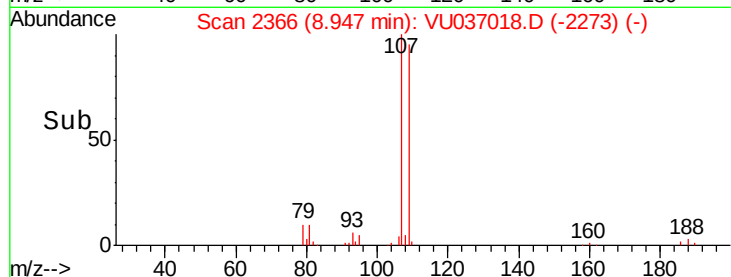
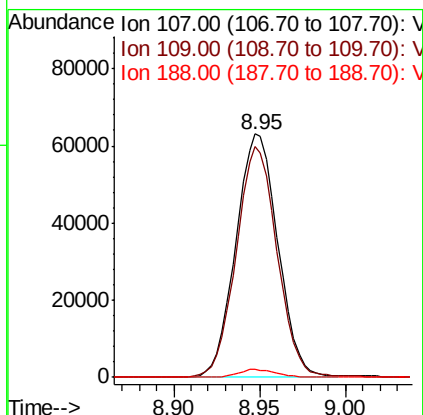
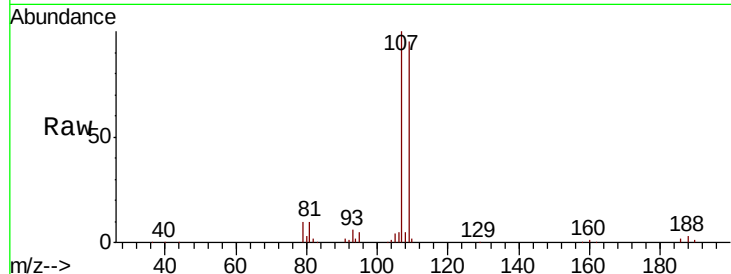




#50
1,2-Dibromoethane
Concen: 52.050 ug/L
RT: 8.95 min Scan# 2366
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

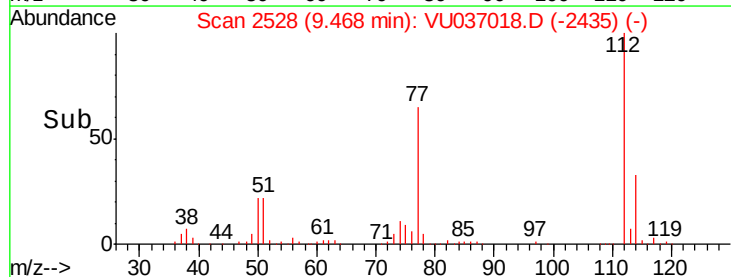
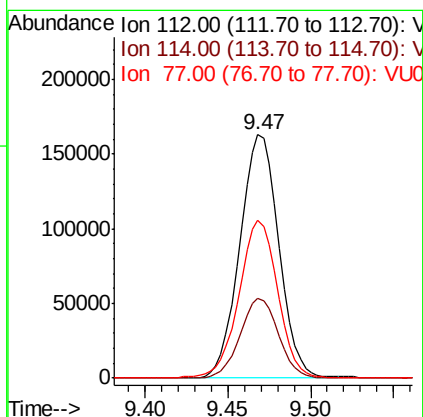
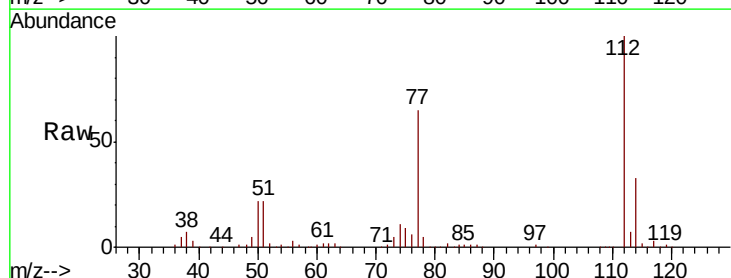
Instrument :
MSVOA_U
ClientSampleId :

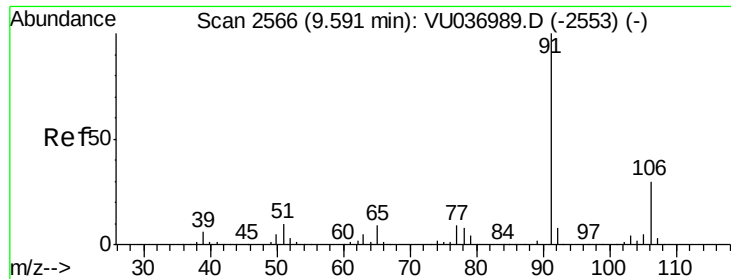
Tot Ion:107 Resp: 106883
Ion Ratio Lower Upper
107 100
109 94.9 65.9 122.5
188 3.2 2.2 3.2



#51
Chlorobenzene
Concen: 51.540 ug/L
RT: 9.47 min Scan# 2528
Delta R.T. -0.00 min
Lab File: VU037018.D
Acq: 03 Mar 2020 11:04

Tgt Ion:112 Resp: 266832
Ion Ratio Lower Upper
112 100
114 32.5 22.3 41.5
77 64.7 50.1 75.1





#52

Ethylbenzene

Concen: 51.469 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

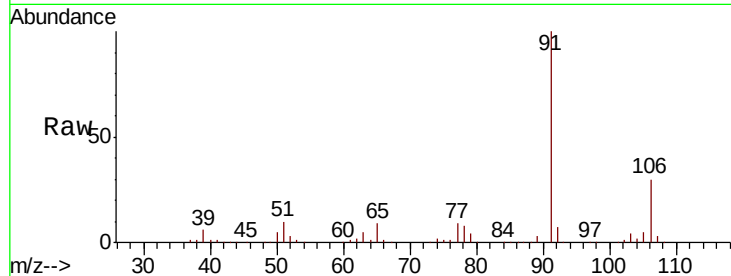
ClientSampleId :

Tot Ion: 91 Resp: 487516

Ion Ratio Lower Upper

91 100

106 30.1 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VU036989.D (-2553) (-)

Ion 106.00 (105.70 to 106.70): VU036989.D (-2553) (-)

9.59

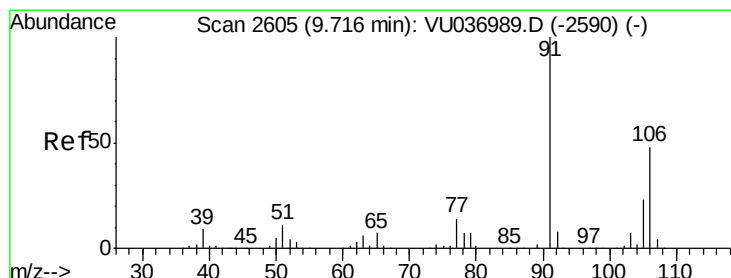
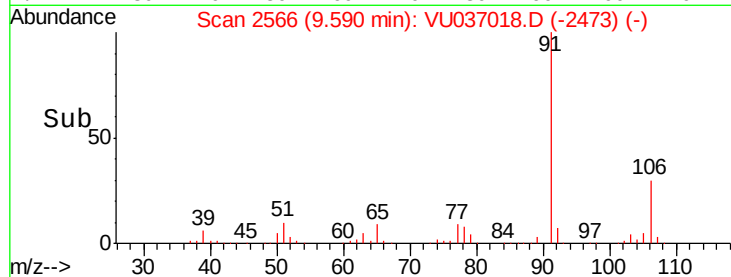
300000

200000

100000

0

Time--> 9.50 9.55 9.60 9.65



#53

m,p-Xylene

Concen: 51.990 ug/L

RT: 9.72 min Scan# 2605

Delta R.T. -0.00 min

Lab File: VU037018.D

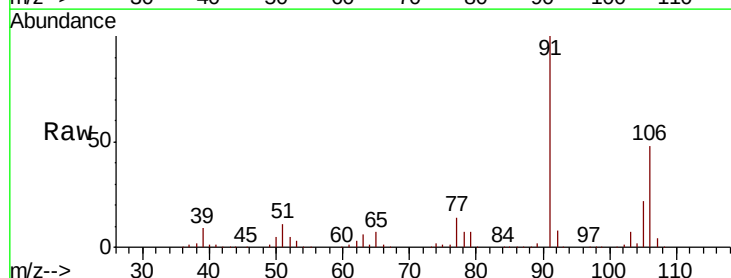
Acq: 03 Mar 2020 11:04

Tgt Ion: 106 Resp: 180638

Ion Ratio Lower Upper

106 100

91 208.5 145.3 269.9



Abundance Ion 106.00 (105.70 to 106.70): VU036989.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VU036989.D (-2590) (-)

9.72

250000

200000

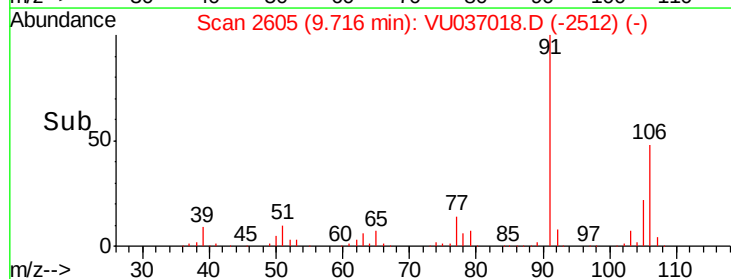
150000

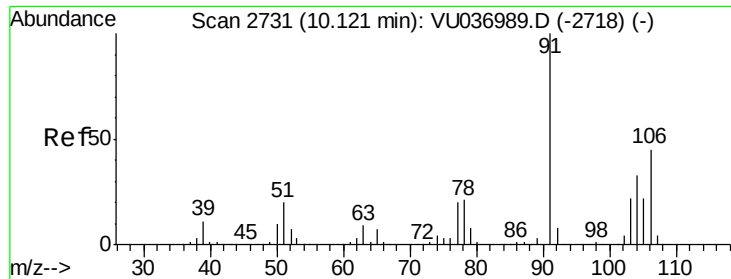
100000

50000

0

Time--> 9.65 9.70 9.75 9.80





#54

o-xylene

Concen: 51.461 ug/L

RT: 10.12 min Scan# 2731

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

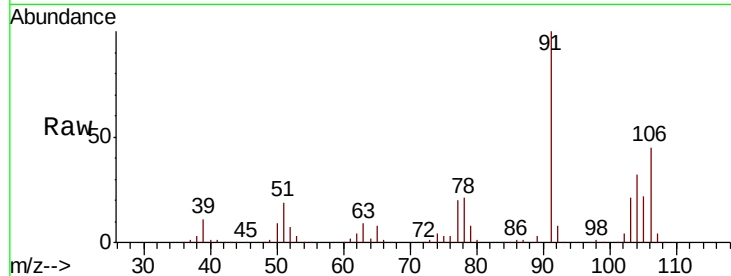
ClientSampled :

Tot Ion:106 Resp: 178330

Ion Ratio Lower Upper

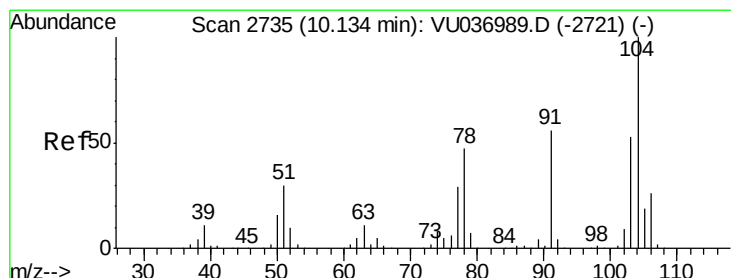
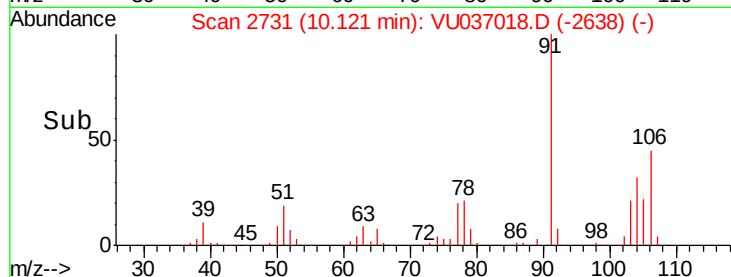
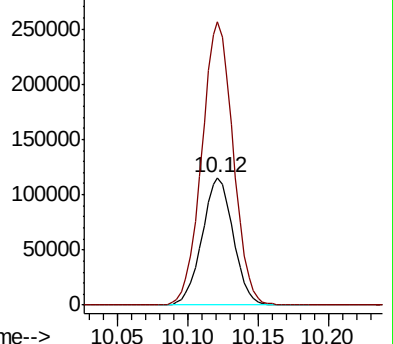
106 100

91 222.0 154.2 286.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.204 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VU037018.D

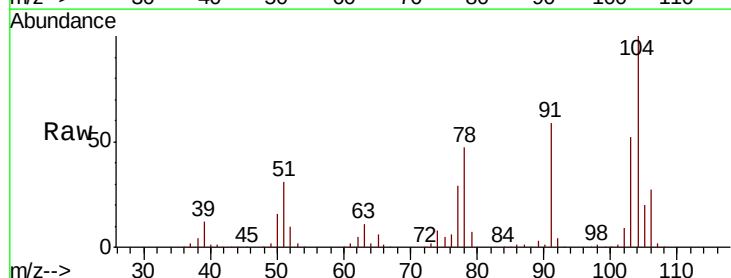
Acq: 03 Mar 2020 11:04

Tgt Ion:104 Resp: 307058

Ion Ratio Lower Upper

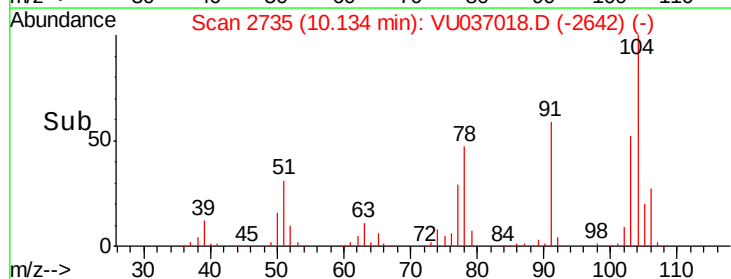
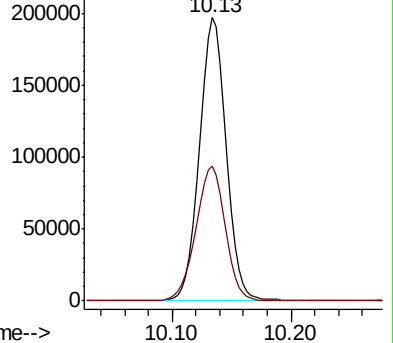
104 100

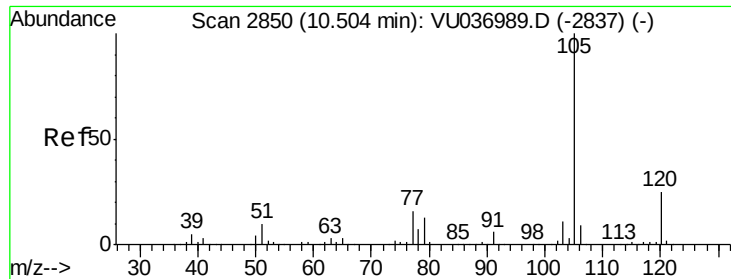
78 47.5 33.0 61.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 52.147 ug/L

RT: 10.50 min Scan# 2850

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

ClientSampleId :

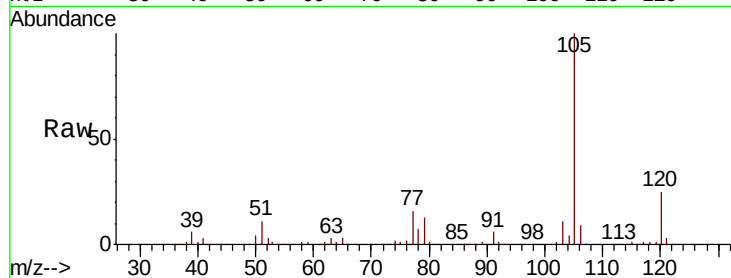
Tot Ion:105 Resp: 464136

Ion Ratio Lower Upper

105 100

120 25.6 20.5 30.7

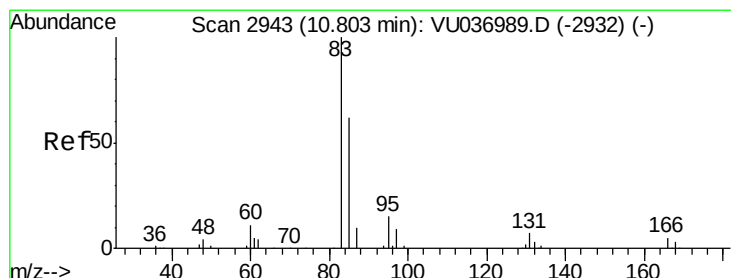
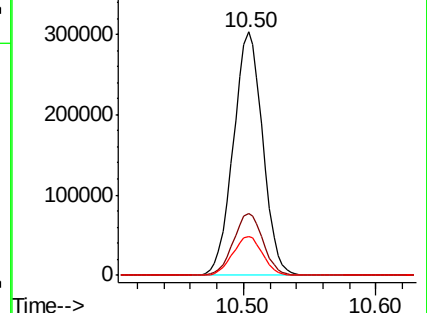
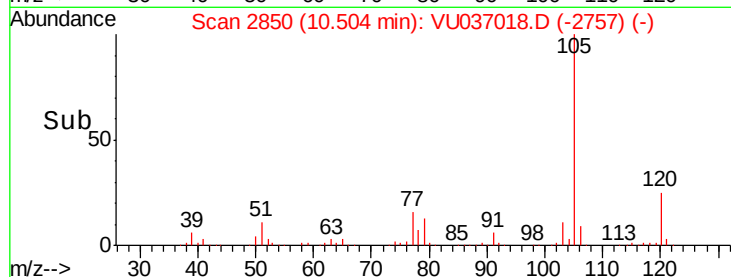
77 16.2 13.1 19.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 54.138 ug/L

RT: 10.80 min Scan# 2943

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

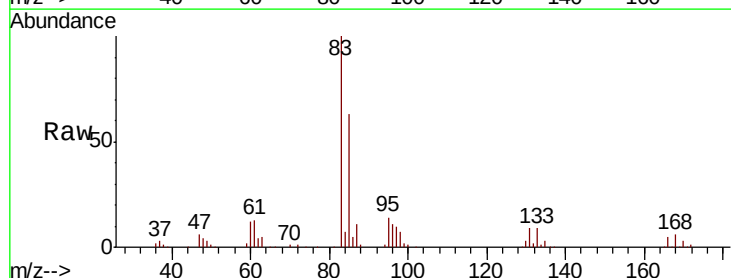
Tgt Ion: 83 Resp: 190059

Ion Ratio Lower Upper

83 100

85 63.2 45.5 84.5

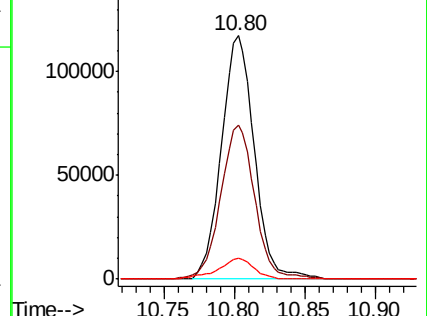
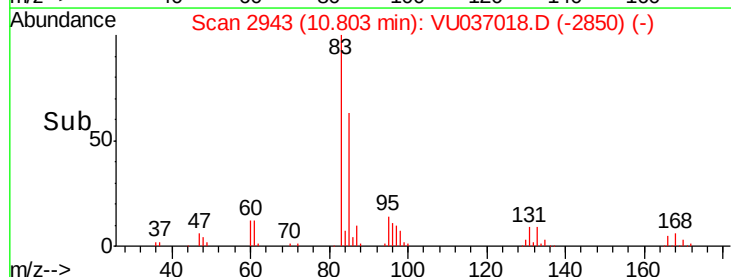
131 8.7 6.8 10.2

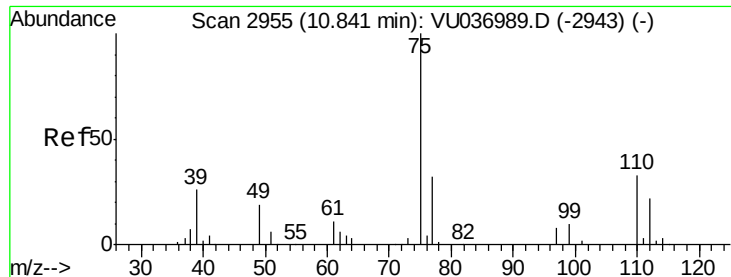


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 53.713 ug/L

RT: 10.84 min Scan# 2956

Delta R.T. 0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

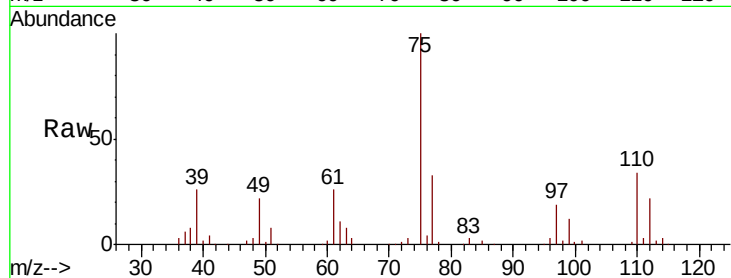
ClientSampled :

Tot Ion: 75 Resp: 152584

Ion Ratio Lower Upper

75 100

77 32.4 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU036989.D (-2943) (-)

Ion 77.00 (76.70 to 77.70): VU036989.D (-2943) (-)

10.84

80000

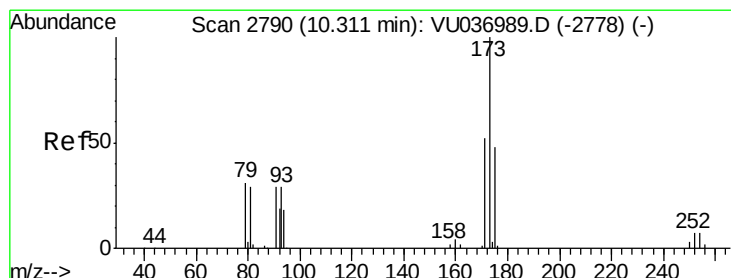
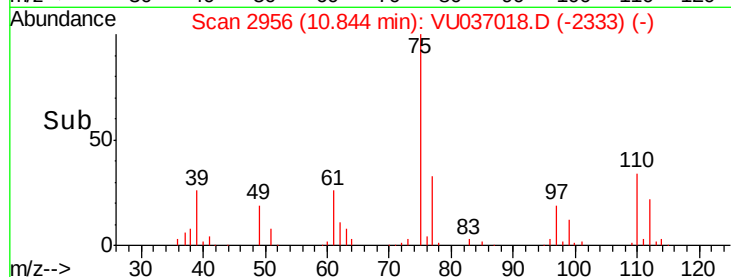
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 52.214 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

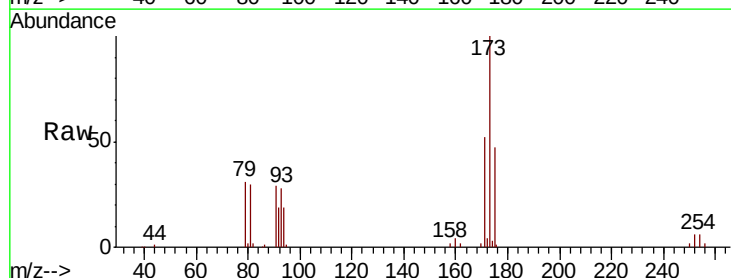
Tgt Ion: 173 Resp: 68787

Ion Ratio Lower Upper

173 100

175 47.0 39.0 58.6

254 5.8 4.6 6.8



Abundance Ion 173.00 (172.70 to 173.70): VU036989.D (-2778) (-)

Ion 175.00 (174.70 to 175.70): VU036989.D (-2778) (-)

Ion 254.00 (253.70 to 254.70): VU036989.D (-2778) (-)

10.31

50000

40000

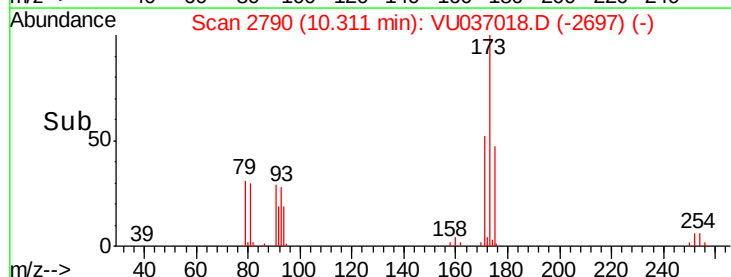
30000

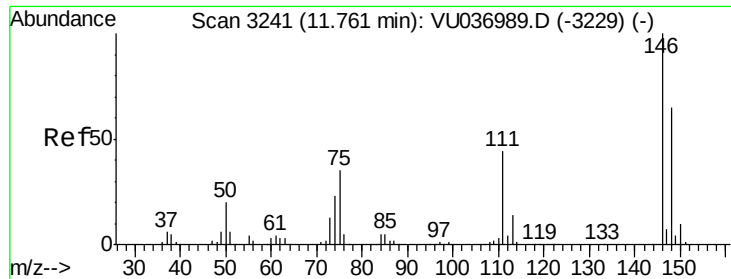
20000

10000

0

Time-->

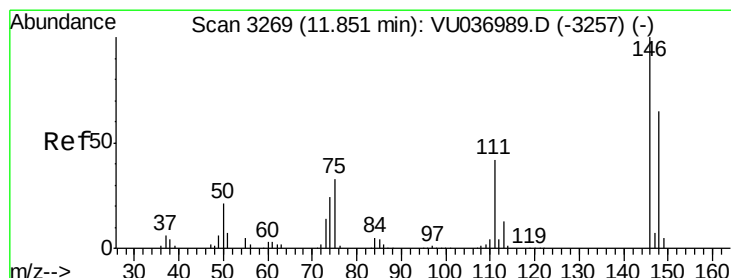
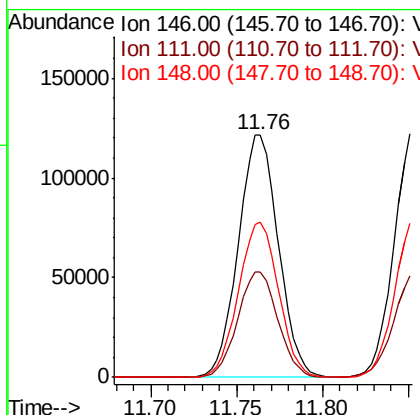
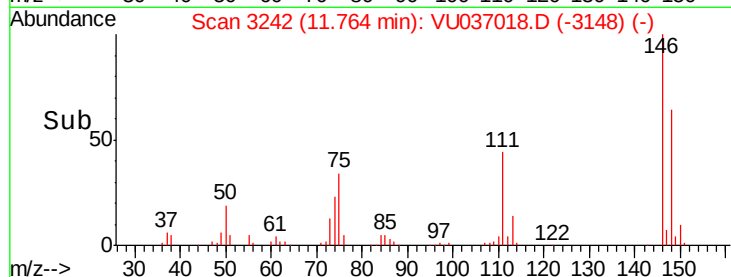
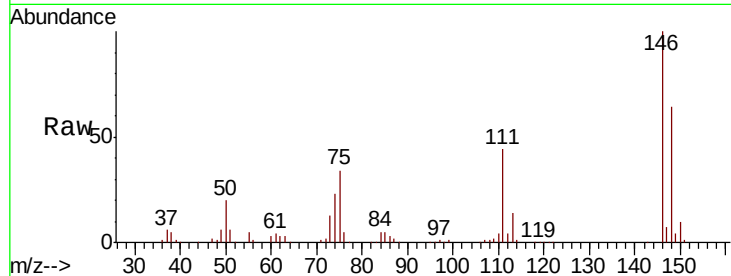




#62
 1,3-Dichlorobenzene
 Concen: 51.958 ug/L
 RT: 11.76 min Scan# 3242
 Delta R.T. 0.00 min
 Lab File: VU037018.D
 Acq: 03 Mar 2020 11:04

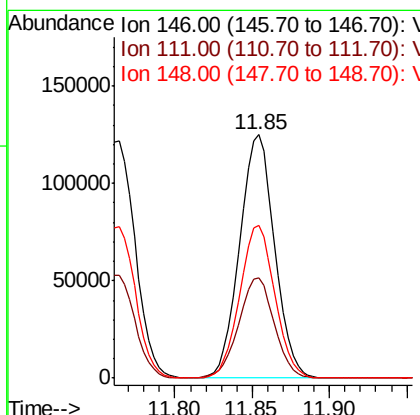
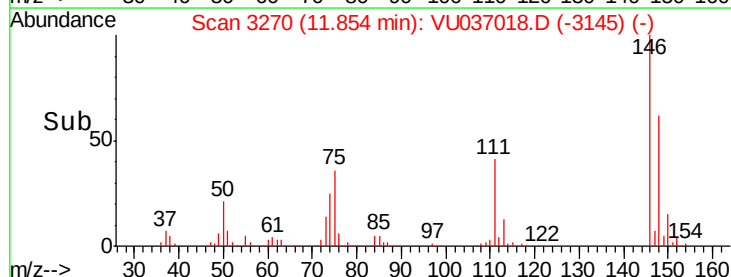
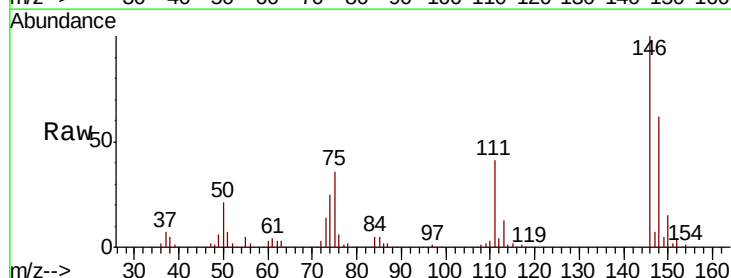
Instrument :
 MSVOA_U
 ClientSampleId :

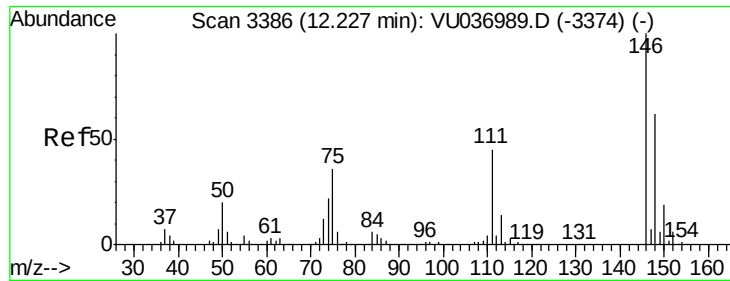
Tot Ion:146 Resp: 196401
 Ion Ratio Lower Upper
 146 100
 111 43.6 30.7 56.9
 148 63.8 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 52.669 ug/L
 RT: 11.85 min Scan# 3270
 Delta R.T. 0.00 min
 Lab File: VU037018.D
 Acq: 03 Mar 2020 11:04

Tgt Ion:146 Resp: 196700
 Ion Ratio Lower Upper
 146 100
 111 41.3 29.8 55.4
 148 62.5 45.1 83.9

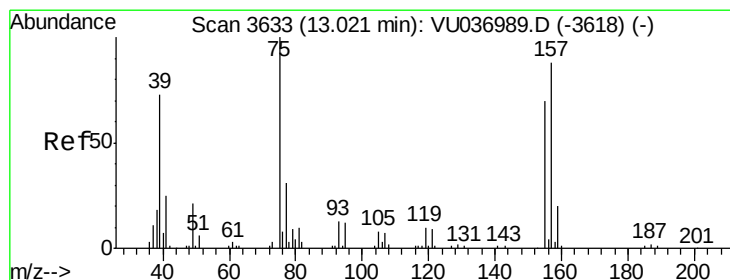
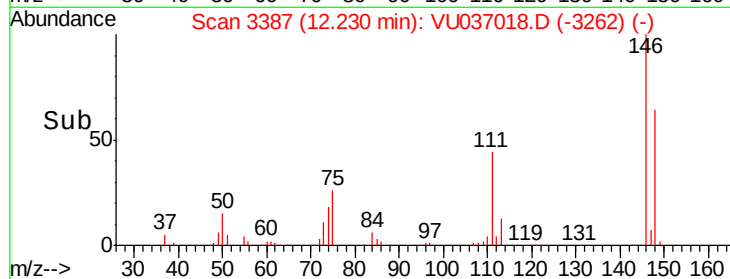
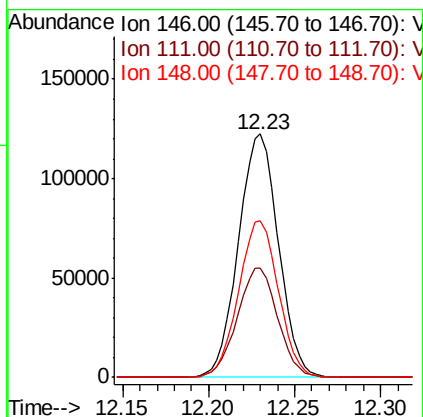
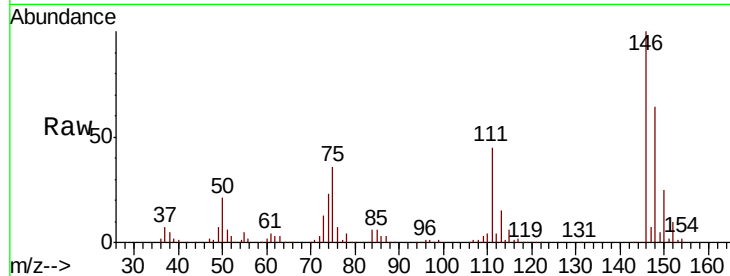




#65
 1,2-Dichlorobenzene
 Concen: 52.353 ug/L
 RT: 12.23 min Scan# 3387
 Delta R.T. 0.00 min
 Lab File: VU037018.D
 Acq: 03 Mar 2020 11:04

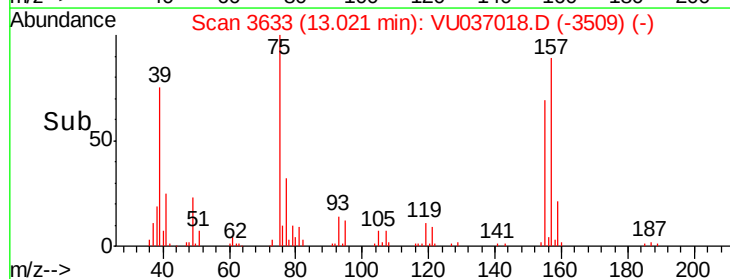
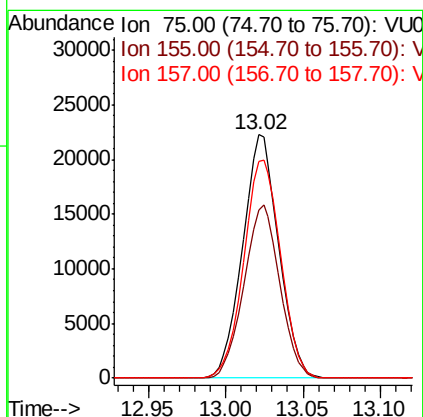
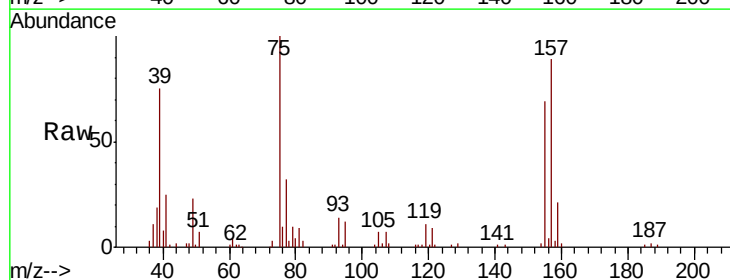
Instrument :
 MSVOA_U
 ClientSampled :

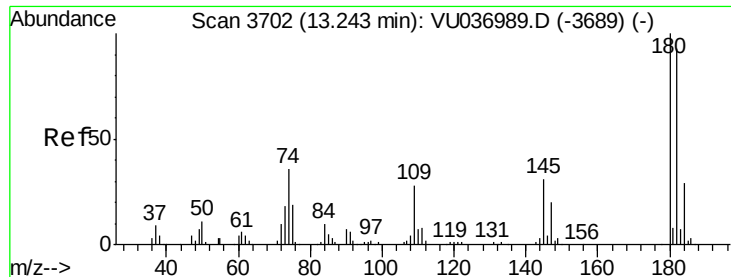
Tot Ion:146 Resp: 197593
 Ion Ratio Lower Upper
 146 100
 111 44.9 35.4 53.0
 148 64.3 50.5 75.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.255 ug/L
 RT: 13.02 min Scan# 3633
 Delta R.T. -0.00 min
 Lab File: VU037018.D
 Acq: 03 Mar 2020 11:04

Tgt Ion: 75 Resp: 36132
 Ion Ratio Lower Upper
 75 100
 155 69.1 55.7 83.5
 157 88.9 73.0 109.6

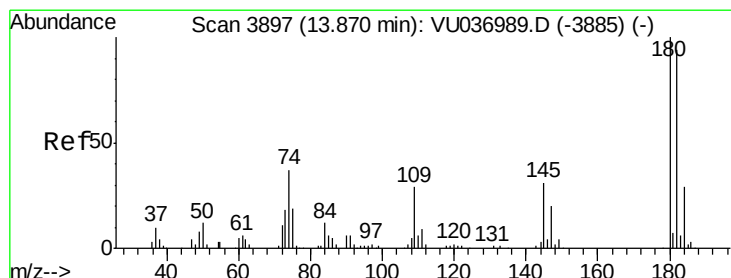
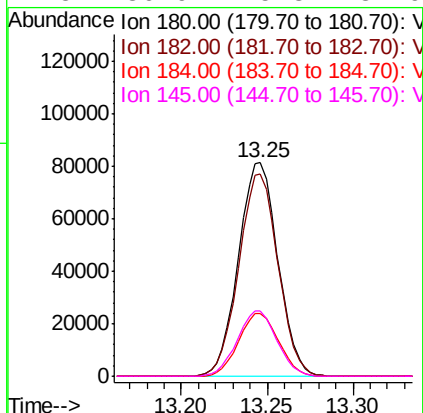
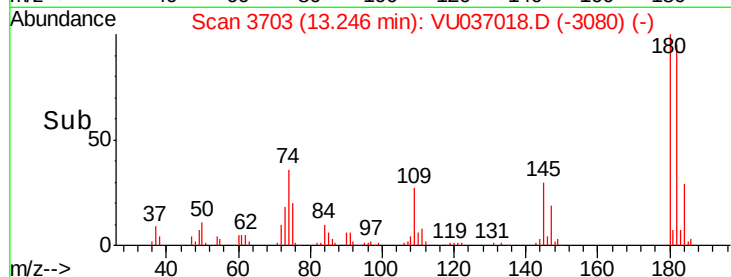
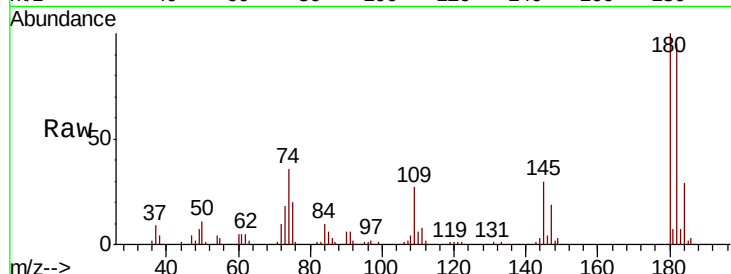




#67
 1,3,5-Trichlorobenzene
 Concen: 53.874 ug/L
 RT: 13.25 min Scan# 3703
 Delta R.T. 0.00 min
 Lab File: VU037018.D
 Acq: 03 Mar 2020 11:04

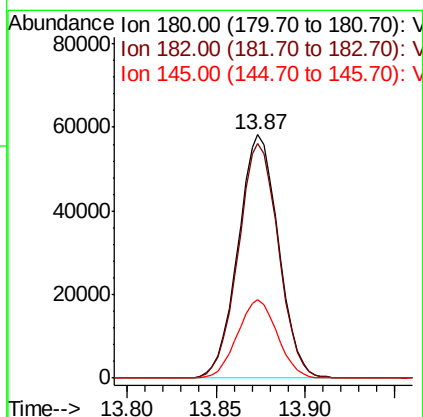
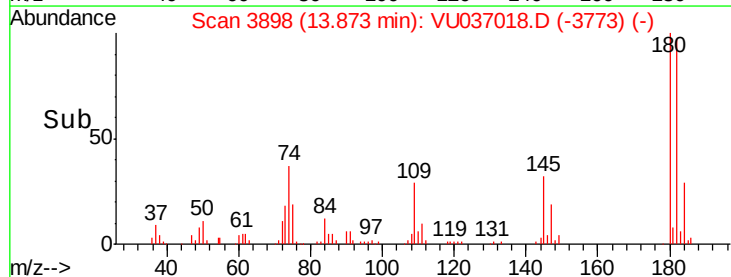
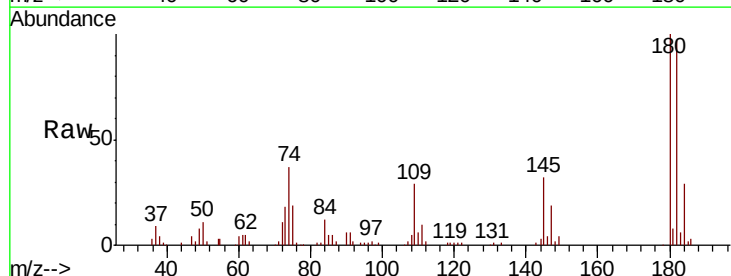
Instrument :
 MSVOA_U
 ClientSampleId :

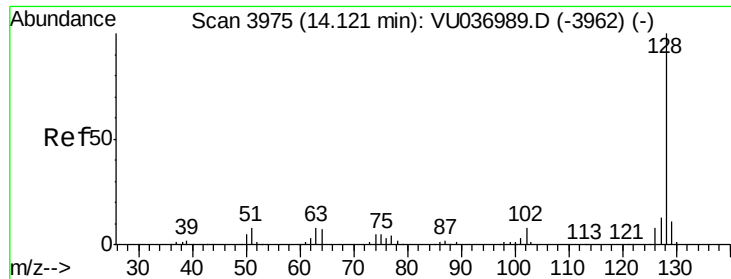
Tot Ion:180	Resp:	129262
Ion Ratio	Lower	Upper
180	100	
182	94.4	76.9 115.3
184	29.8	24.2 36.2
145	30.9	25.3 37.9



#68
 1,2,4-trichlorobenzene
 Concen: 50.894 ug/L
 RT: 13.87 min Scan# 3898
 Delta R.T. 0.00 min
 Lab File: VU037018.D
 Acq: 03 Mar 2020 11:04

Tgt Ion:180	Resp:	91488
Ion Ratio	Lower	Upper
180	100	
182	96.2	75.3 112.9
145	31.9	26.2 39.4





#69

Naphthalene

Concen: 43.312 ug/L

RT: 14.12 min Scan# 3975

Delta R.T. -0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

Instrument :

MSVOA_U

ClientSampleId :

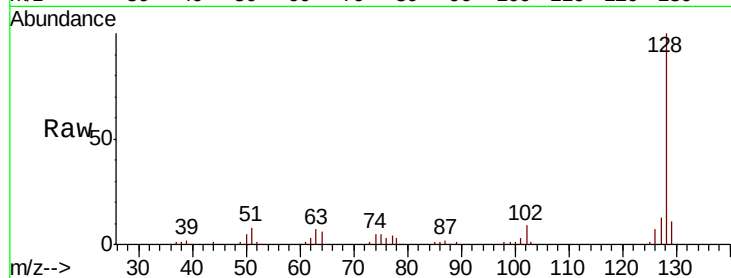
Tot Ion:128 Resp: 137441

Ion Ratio Lower Upper

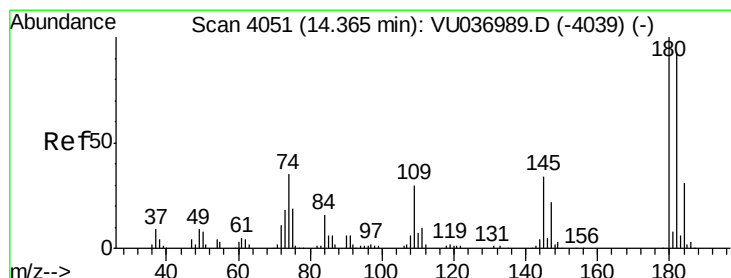
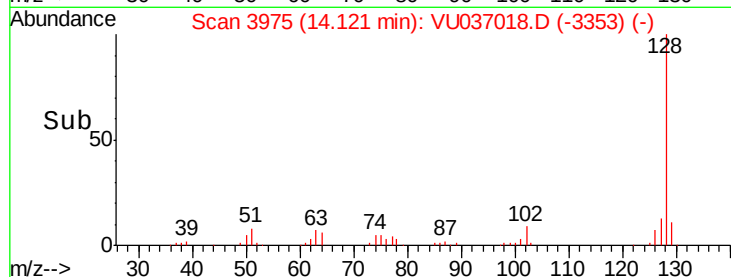
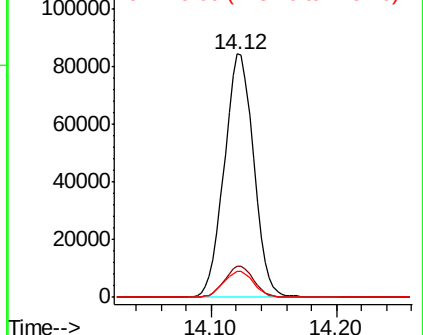
128 100

127 12.6 11.0 16.4

129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 51.996 ug/L

RT: 14.37 min Scan# 4052

Delta R.T. 0.00 min

Lab File: VU037018.D

Acq: 03 Mar 2020 11:04

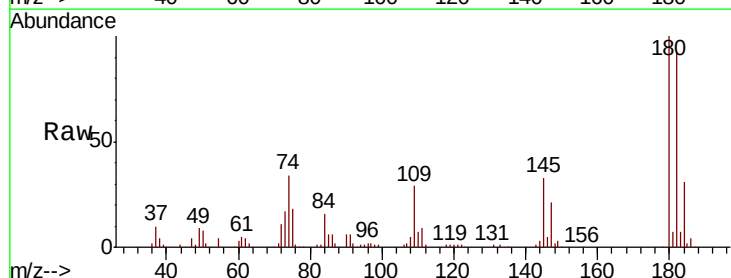
Tgt Ion:180 Resp: 93404

Ion Ratio Lower Upper

180 100

182 93.1 77.0 115.6

145 33.6 28.1 42.1



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

