

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032120\
 Data File : VU037365.D
 Acq On : 21 Mar 2020 20:06
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 23 04:28:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032120WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 23 04:26:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	309501	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	294538	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	149692	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	149256	48.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.10%
7) Chloroethane-d5	1.93	69	115627	48.32	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.64%
11) 1,1-Dichloroethene-d2	2.59	63	234189	48.09	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.18%
21) 2-Butanone-d5	4.67	46	204892	99.41	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	99.41%
24) Chloroform-d	5.10	84	250249	49.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.32%
26) 1,2-Dichloroethane-d4	5.74	65	172706	47.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.80%
32) Benzene-d6	5.76	84	450982	50.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.06%
36) 1,2-Dichloropropane-d6	6.72	67	144991	51.20	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.40%
41) Toluene-d8	7.92	98	435328	50.77	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.54%
43) trans-1,3-Dichloropropene-	8.20	79	80116	51.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	102.00%
47) 2-Hexanone-d5	8.66	63	128065	85.72	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.72%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	219957	49.76	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.52%
64) 1,2-Dichlorobenzene-d4	12.21	152	170247	49.26	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.52%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	160857	46.475	ug/L 98
3) Chloromethane	1.54	50	156017	49.011	ug/L 99
5) Vinyl chloride	1.62	62	149989	49.176	ug/L 98
6) Bromomethane	1.87	94	78389	54.920	ug/L 95
8) Chloroethane	1.95	64	84437	49.349	ug/L 97
9) Trichlorofluoromethane	2.16	101	206857	46.879	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	97367	46.561	ug/L 99
12) 1,1-Dichloroethene	2.60	96	94537	48.529	ug/L 97
13) Acetone	2.66	43	119345	94.935	ug/L 97
14) Carbon disulfide	2.82	76	310053	49.390	ug/L 100
15) Methyl Acetate	2.98	43	131865	48.943	ug/L 98
16) Methylene chloride	3.08	84	109504	47.882	ug/L 98
17) trans-1,2-Dichloroethene	3.39	96	100677	50.103	ug/L 99
18) Methyl tert-butyl Ether	3.40	73	361808	51.123	ug/L 99
19) 1,1-Dichloroethane	3.91	63	200610	49.023	ug/L 99
20) cis-1,2-Dichloroethene	4.71	96	113711	49.904	ug/L 98
22) 2-Butanone	4.75	43	193943	100.692	ug/L 100

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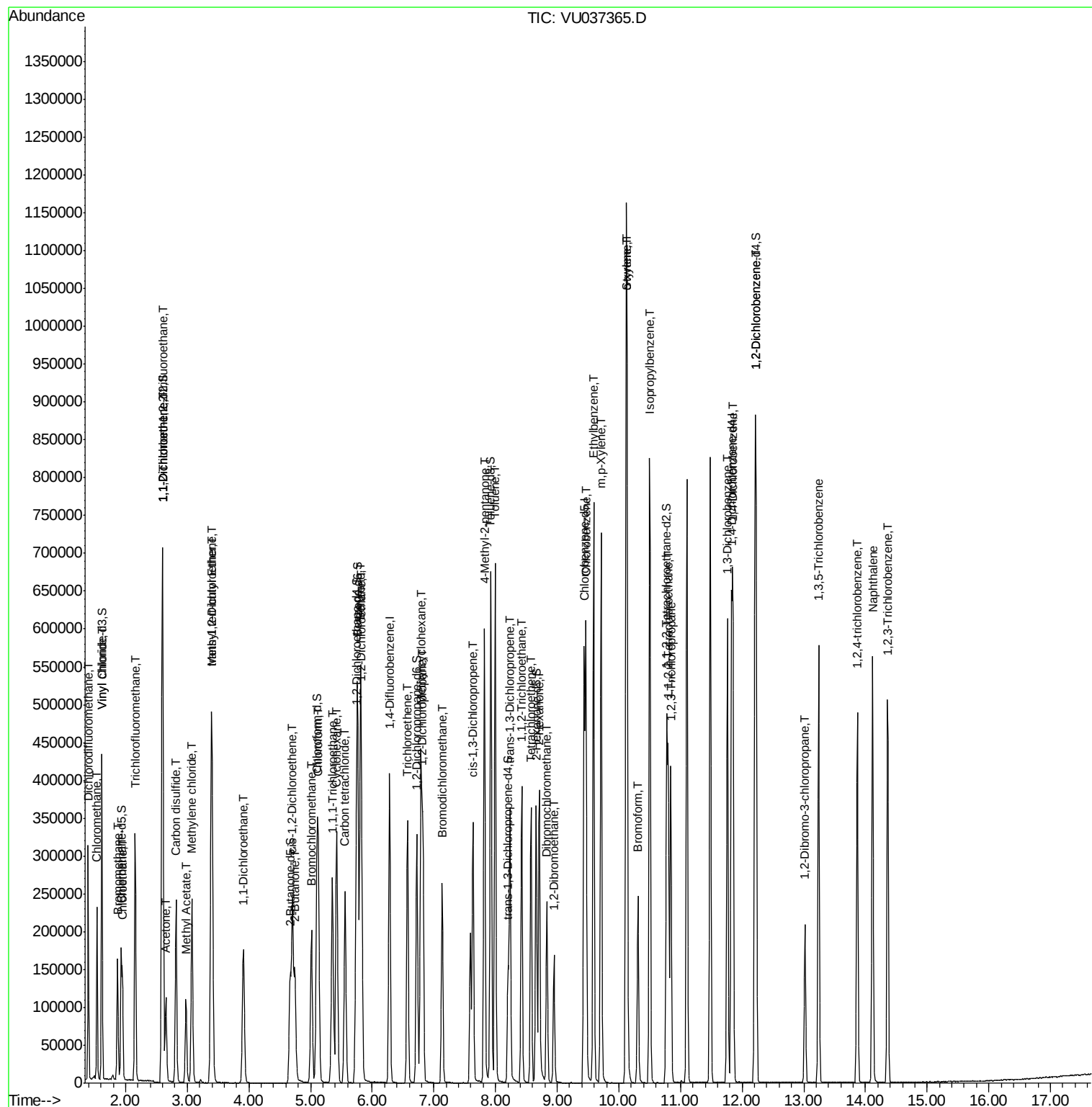
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	61880	49.540	uq/L	99
25) Chloroform	5.13	83	214405	47.907	uq/L	99
27) 1,2-Dichloroethane	5.83	62	186639	48.975	uq/L	99
29) Cyclohexane	5.42	56	164537	49.684	uq/L	99
30) 1,1,1-Trichloroethane	5.35	97	199009	50.739	uq/L	98
31) Carbon tetrachloride	5.56	117	172282	50.054	uq/L	99
33) Benzene	5.81	78	435947	51.335	uq/L	100
34) Trichloroethene	6.57	95	113617	50.937	uq/L	97
35) Methylcyclohexane	6.79	83	169756	50.505	uq/L	98
37) 1,2-Dichloropropane	6.82	63	117459	51.308	uq/L	99
38) Bromodichloromethane	7.13	83	165191	51.206	uq/L	100
39) cis-1,3-Dichloropropene	7.63	75	185533	52.303	uq/L	100
40) 4-Methyl-2-pentanone	7.82	43	384201	106.648	uq/L	100
42) Toluene	7.99	91	477030	51.969	uq/L	99
44) trans-1,3-Dichloropropene	8.23	75	197146	53.589	uq/L	100
45) 1,1,2-Trichloroethane	8.42	97	113885	51.029	uq/L	97
46) Tetrachloroethene	8.57	164	76351	42.925	uq/L	98
48) 2-Hexanone	8.71	43	227905	77.924	uq/L	98
49) Dibromochloromethane	8.83	129	118324	44.357	uq/L	99
50) 1,2-Dibromoethane	8.95	107	104499	42.812	uq/L	99
51) Chlorobenzene	9.47	112	301467	51.212	uq/L	98
52) Ethylbenzene	9.59	91	525017	51.063	uq/L	98
53) m,p-Xylene	9.71	106	194103	51.539	uq/L	98
54) o-xylene	10.12	106	192604	51.469	uq/L	100
55) Styrene	10.13	104	334302	53.378	uq/L	99
56) Isopropylbenzene	10.50	105	515010	50.986	uq/L	99
58) 1,1,2,2-Tetrachloroethane	10.80	83	195049	50.004	uq/L	99
59) 1,2,3-Trichloropropane	10.84	75	166660	50.804	uq/L	99
61) Bromoform	10.31	173	108225	49.215	uq/L	99
62) 1,3-Dichlorobenzene	11.76	146	241458	51.013	uq/L	99
63) 1,4-Dichlorobenzene	11.85	146	236874	50.361	uq/L	99
65) 1,2-Dichlorobenzene	12.23	146	241445	50.090	uq/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	54911	52.807	uq/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	169184	52.052	uq/L	100
68) 1,2,4-trichlorobenzene	13.87	180	141330	56.325	uq/L	99
69) Naphthalene	14.11	128	431349	62.487	uq/L	100
70) 1,2,3-Trichlorobenzene	14.36	180	149823	57.877	uq/L	99

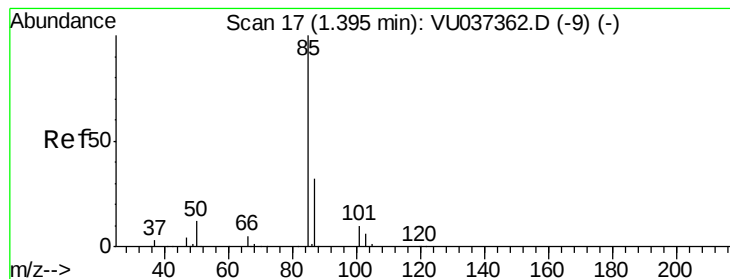
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 46.475 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

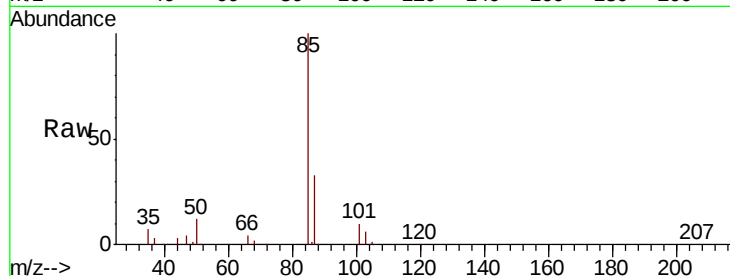
ClientSampleId :

Tot Ion: 85 Resp: 160857

Ion Ratio Lower Upper

85 100

87 33.1 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU037365.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU037365.D (-9) (-)

1.39

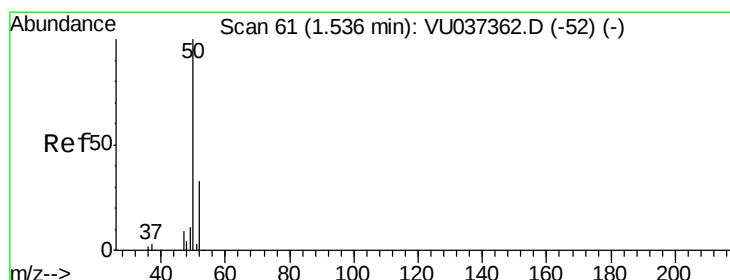
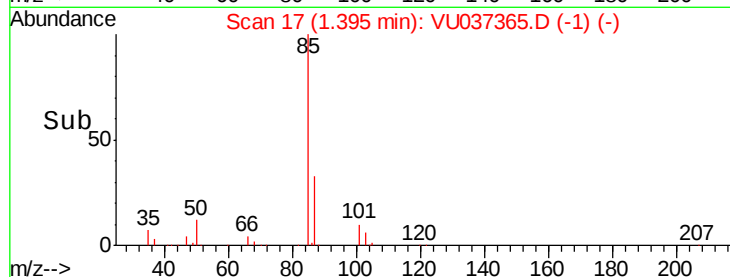
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 49.011 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU037365.D

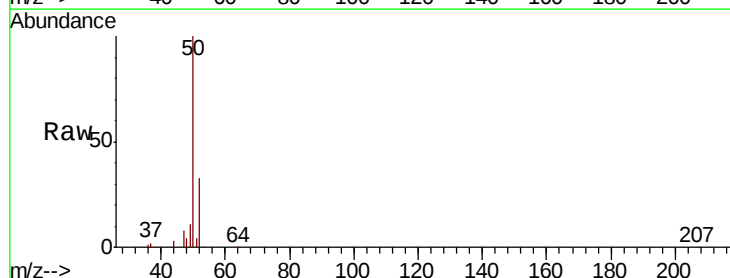
Acq: 21 Mar 2020 20:06

Tgt Ion: 50 Resp: 156017

Ion Ratio Lower Upper

50 100

52 32.9 23.4 43.4



Abundance Ion 50.00 (49.70 to 50.70): VU037365.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037365.D (-1) (-)

1.54

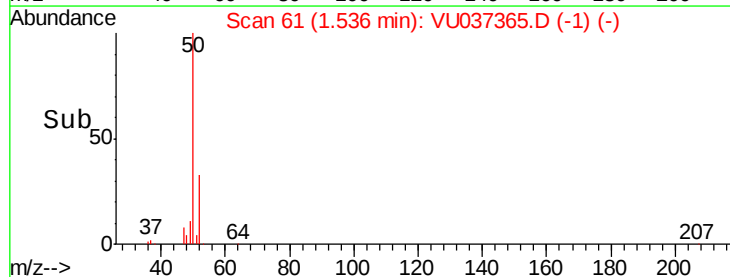
150000

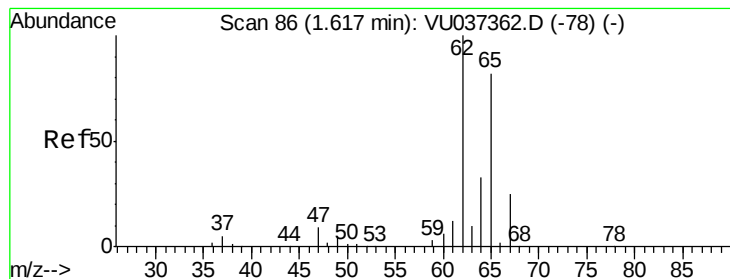
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 49.176 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

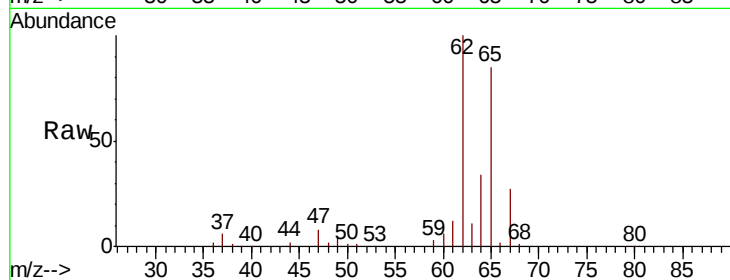
ClientSampleId :

Tot Ion: 62 Resp: 149989

Ion Ratio Lower Upper

62 100

64 33.8 23.0 42.8



Abundance Ion 62.00 (61.70 to 62.70): VU037365.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU037365.D (-78) (-)

1.62

150000

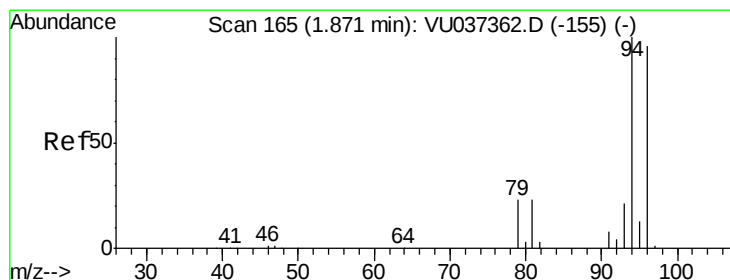
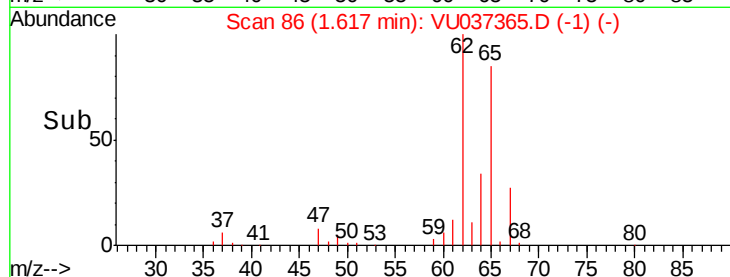
100000

50000

0

1.60 1.65 1.70

Time-->



#6

Bromomethane

Concen: 54.920 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU037365.D

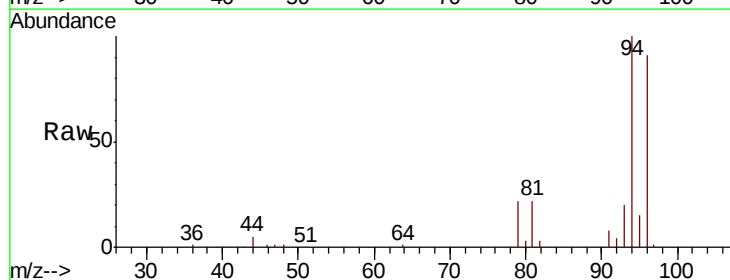
Acq: 21 Mar 2020 20:06

Tgt Ion: 94 Resp: 78389

Ion Ratio Lower Upper

94 100

96 90.8 67.1 124.7



Abundance Ion 94.00 (93.70 to 94.70): VU037365.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU037365.D (-155) (-)

1.87

60000

50000

40000

30000

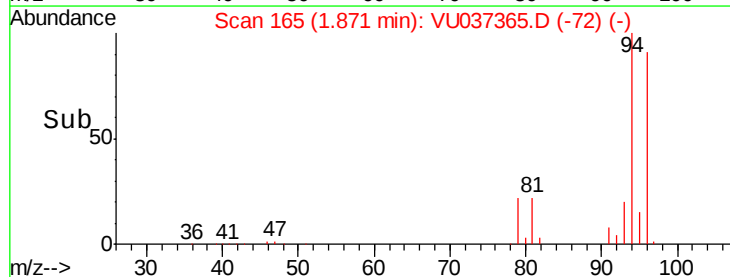
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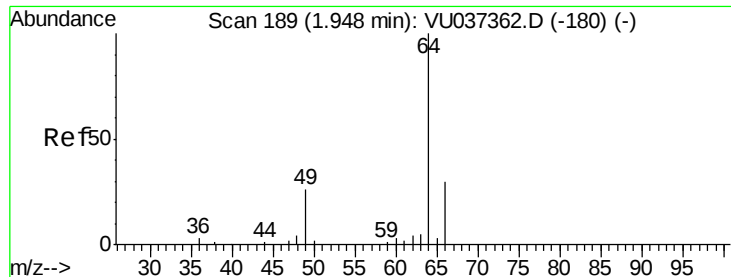
10000

0

1.80 1.85 1.90 1.95

Time-->





#8

Chloroethane

Concen: 49.349 ug/L

RT: 1.95 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

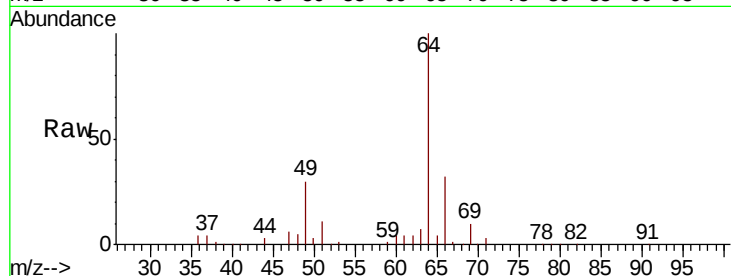
ClientSampleId :

Tot Ion: 64 Resp: 84437

Ion Ratio Lower Upper

64 100

66 32.0 21.1 39.3



Abundance Ion 64.00 (63.70 to 64.70): VU037362.D (-180) (-)

Ion 66.00 (65.70 to 66.70): VU037362.D (-180) (-)

1.95

60000

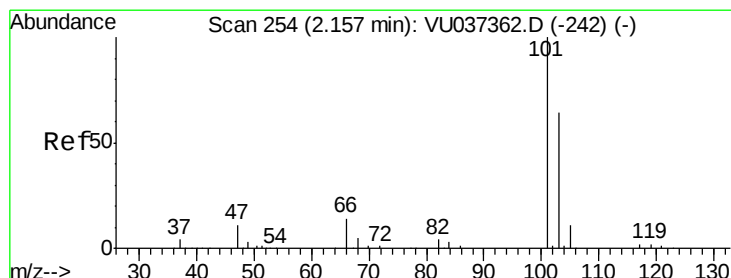
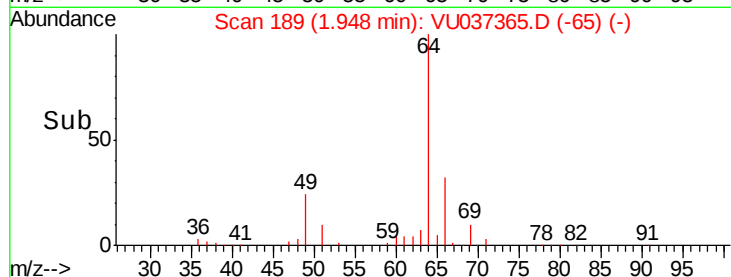
40000

20000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 46.879 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU037365.D

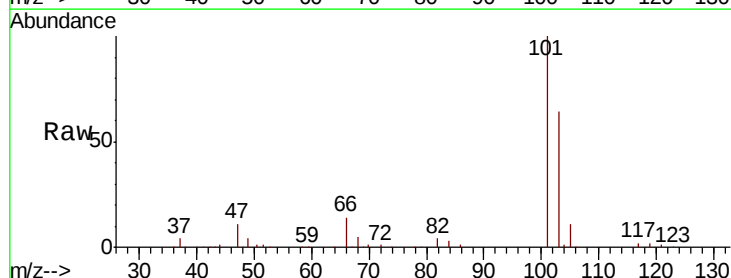
Acq: 21 Mar 2020 20:06

Tgt Ion:101 Resp: 206857

Ion Ratio Lower Upper

101 100

103 64.5 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU037362.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU037362.D (-242) (-)

2.16

150000

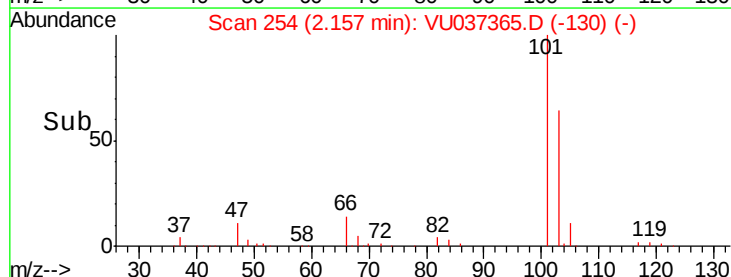
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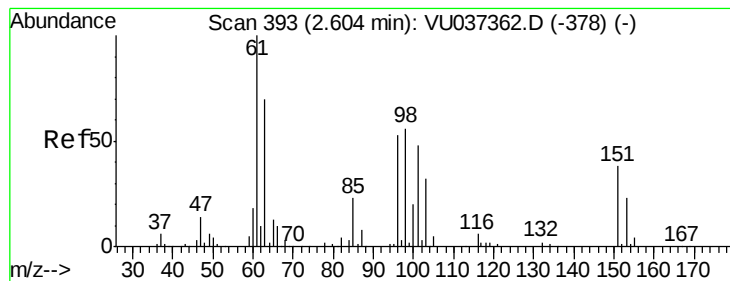
50000

0

2.10 2.15 2.20 2.25

Time-->





#10

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

Concen: 46.561 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

ClientSampleId :

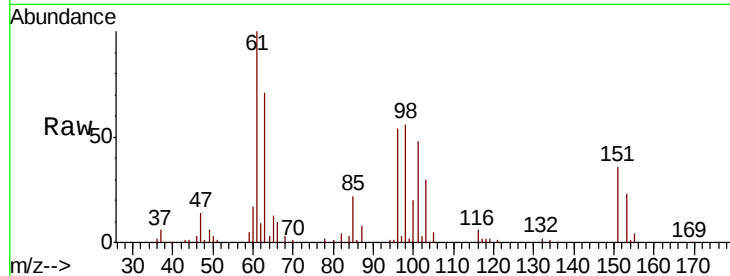
Tot Ion:101 Resp: 97367

Ion Ratio Lower Upper

101 100

85 46.3 37.6 56.4

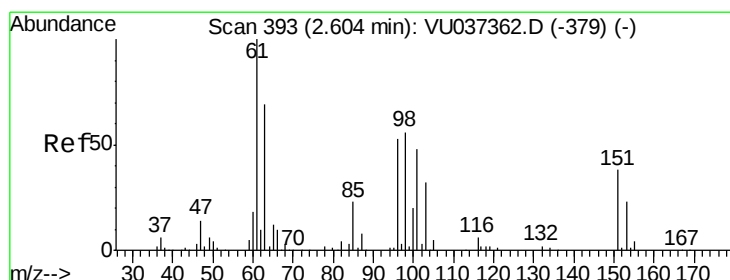
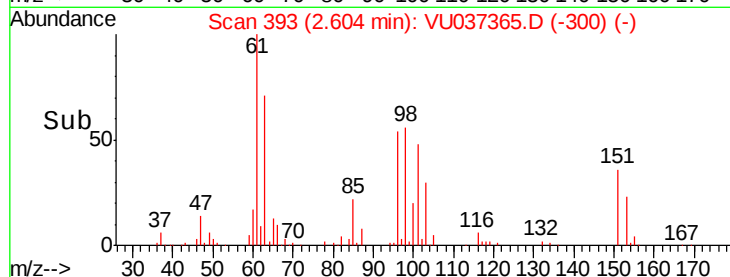
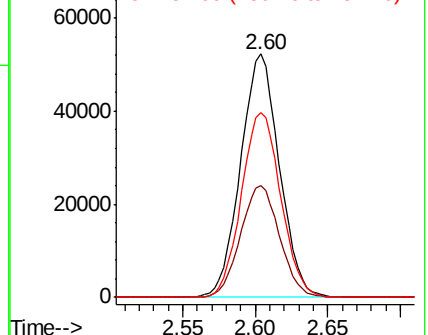
151 76.9 62.2 93.4



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: 48.529 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

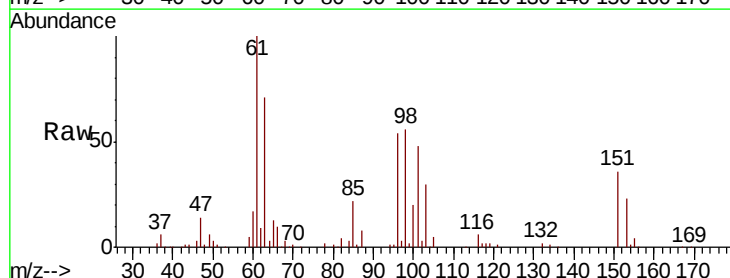
Tgt Ion: 96 Resp: 94537

Ion Ratio Lower Upper

96 100

61 186.2 133.4 247.8

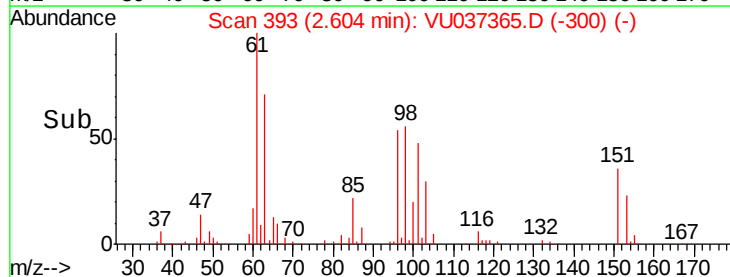
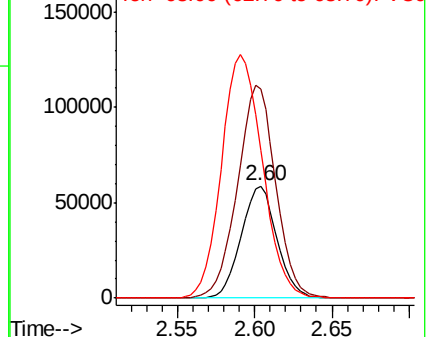
63 131.9 94.4 175.2

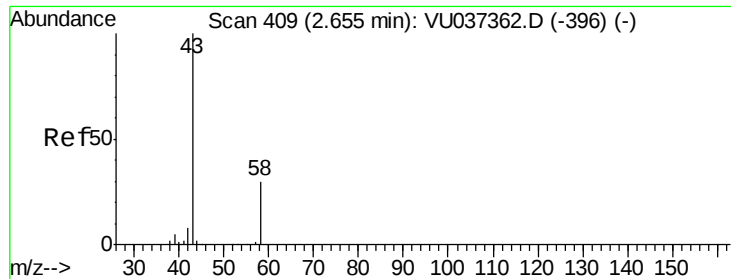


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 94.935 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

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MSVOA_U

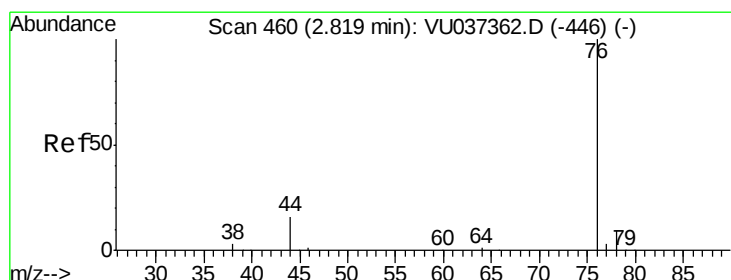
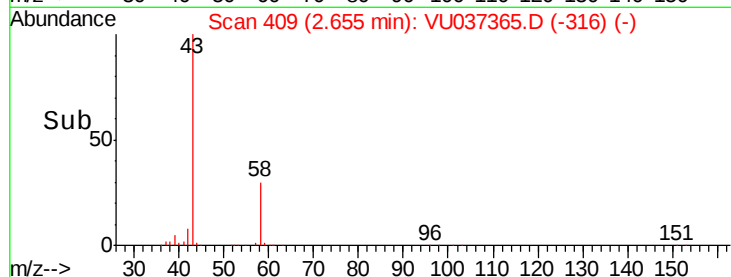
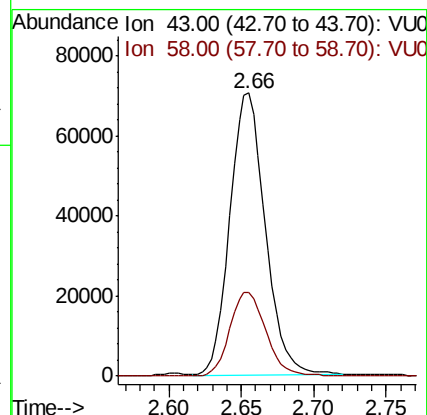
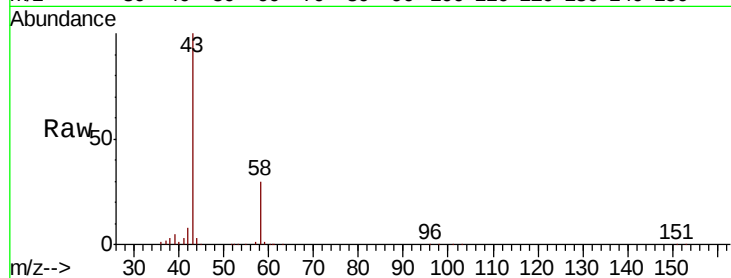
ClientSampleId :

Tot Ion: 43 Resp: 119345

Ion Ratio Lower Upper

43 100

58 30.4 0.0 58.0



#14

Carbon disulfide

Concen: 49.390 ug/L

RT: 2.82 min Scan# 460

Delta R.T. 0.00 min

Lab File: VU037365.D

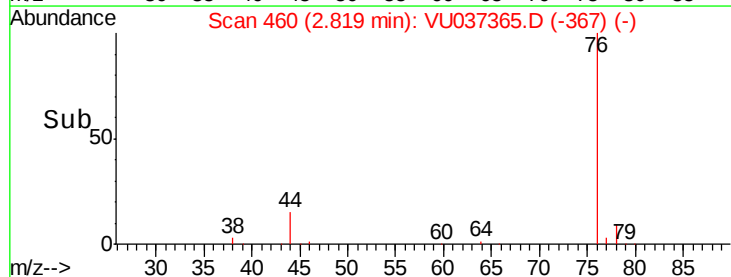
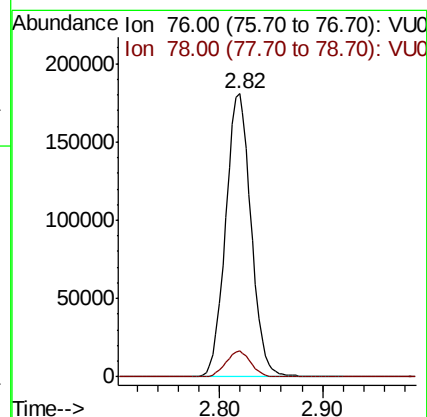
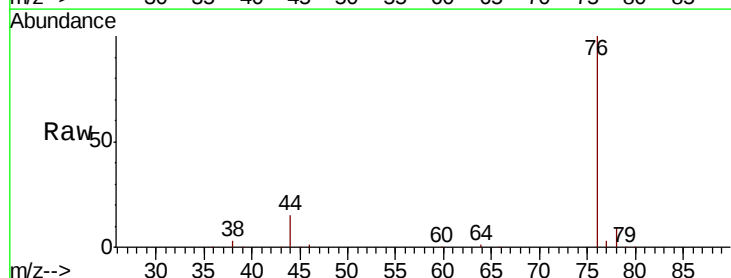
Acq: 21 Mar 2020 20:06

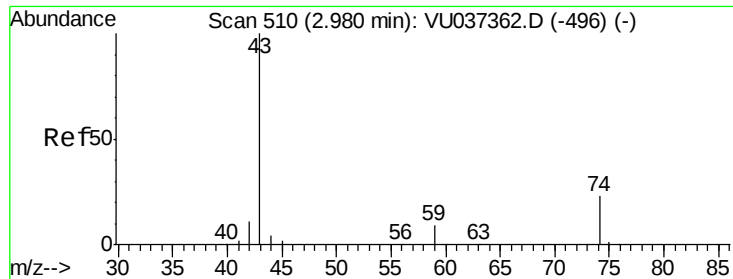
Tgt Ion: 76 Resp: 310053

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8

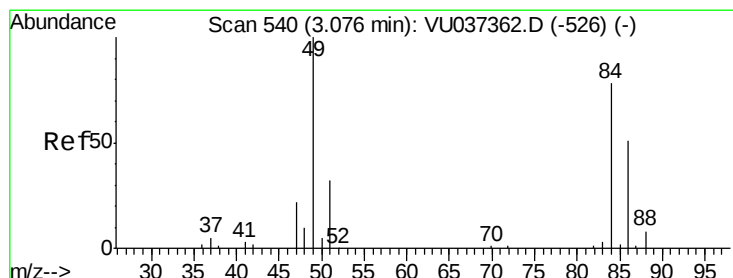
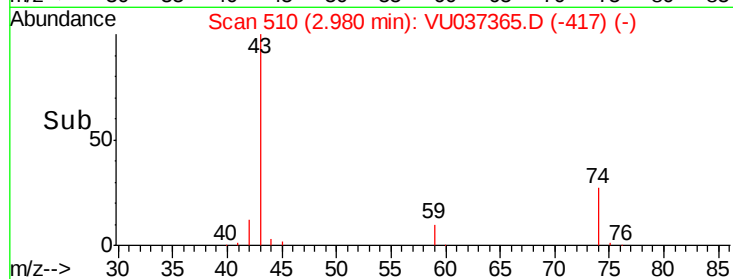
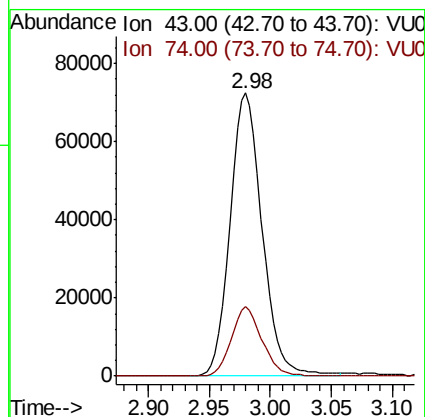
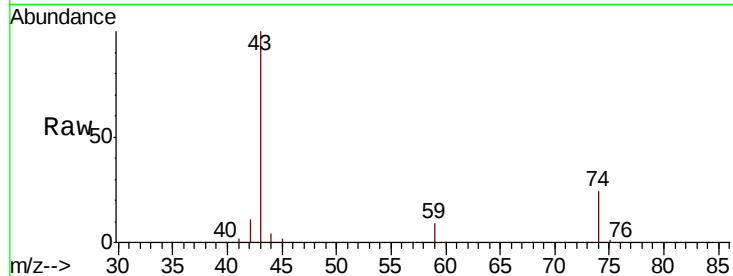




#15
Methyl Acetate
Concen: 48.943 ug/L
RT: 2.98 min Scan# 510
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

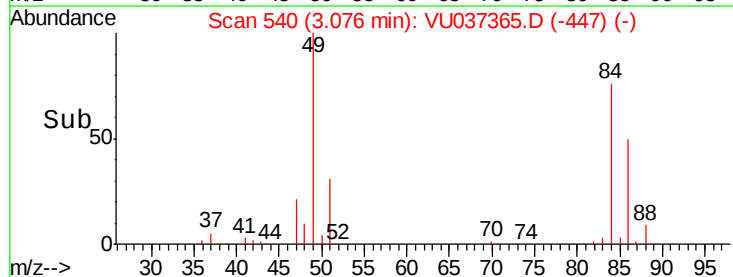
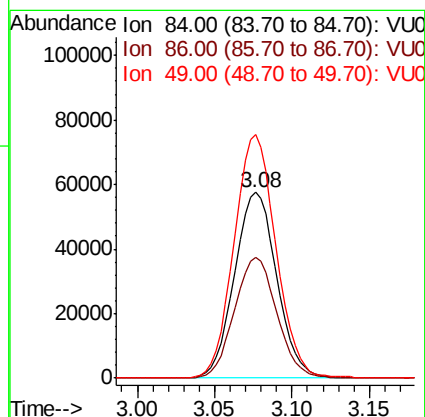
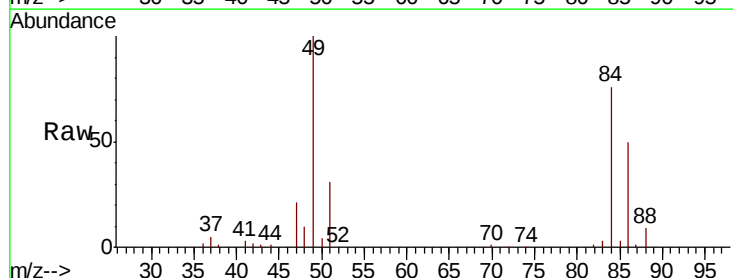
Instrument :
MSVOA_U
ClientSampled :

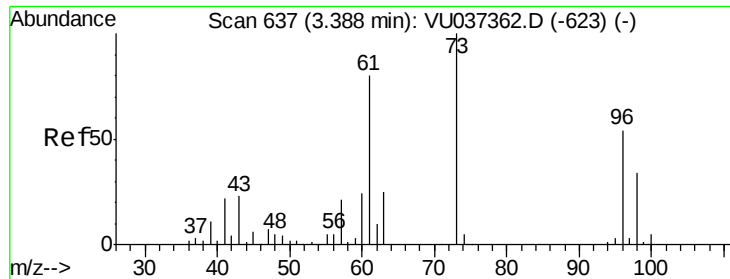
Tot Ion: 43 Resp: 131865
Ion Ratio Lower Upper
43 100
74 23.5 18.2 27.2



#16
Methylene chloride
Concen: 47.882 ug/L
RT: 3.08 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Tgt Ion: 84 Resp: 109504
Ion Ratio Lower Upper
84 100
86 65.0 45.7 84.9
49 131.1 90.0 167.2

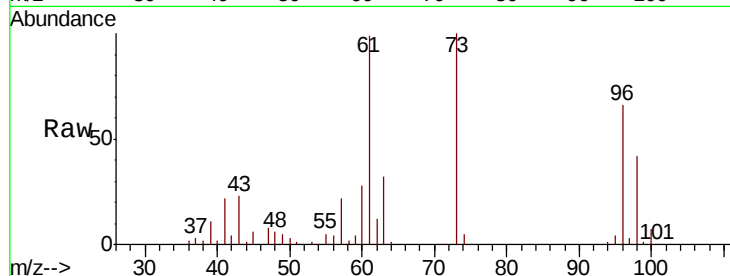




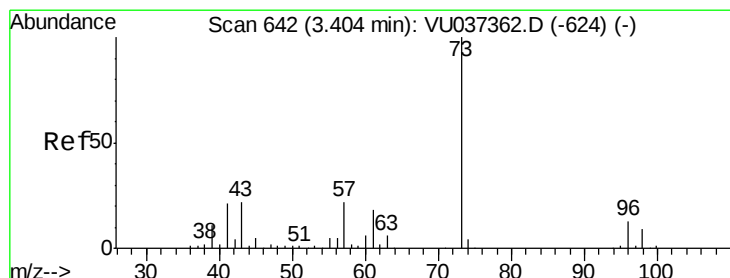
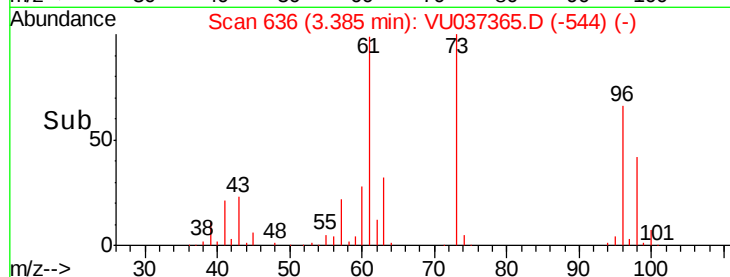
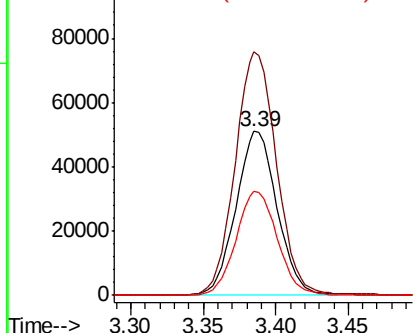
#17
trans-1,2-Dichloroethene
Concen: 50.103 ug/L
RT: 3.39 min Scan# 636
Delta R.T. -0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 100677
Ion Ratio Lower Upper
96 100
61 148.6 103.3 191.9
98 63.7 44.5 82.7

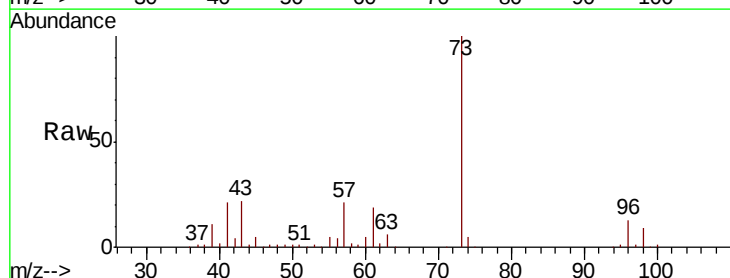


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

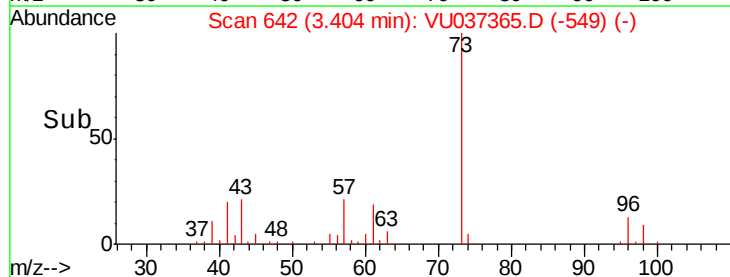
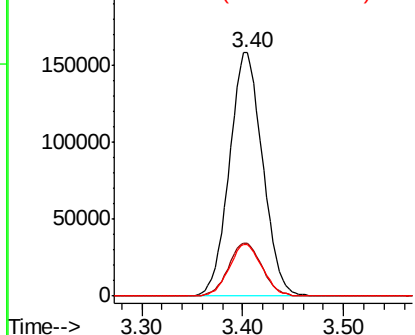


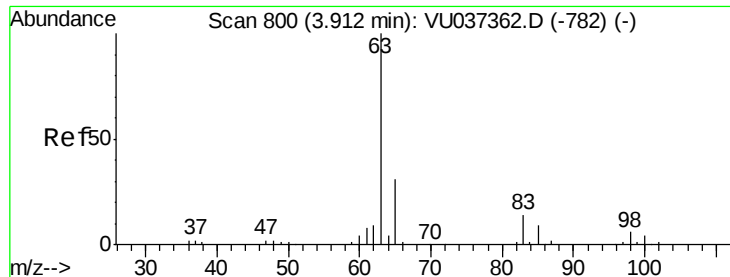
#18
Methyl tert-butyl Ether
Concen: 51.123 ug/L
RT: 3.40 min Scan# 642
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Tgt Ion: 73 Resp: 361808
Ion Ratio Lower Upper
73 100
43 21.9 18.2 27.2
57 21.2 17.4 26.0



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: 49.023 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

ClientSampled :

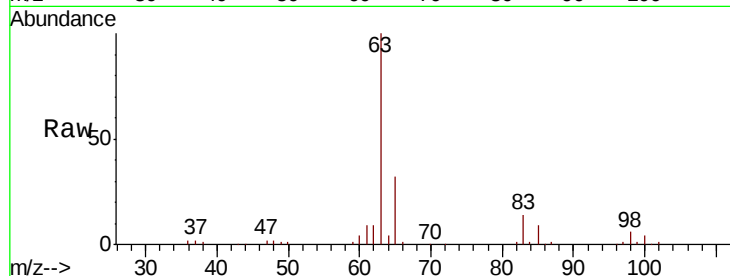
Tot Ion: 63 Resp: 200610

Ion Ratio Lower Upper

63 100

65 31.6 21.6 40.0

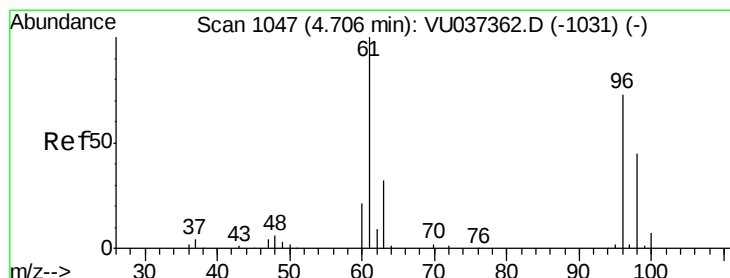
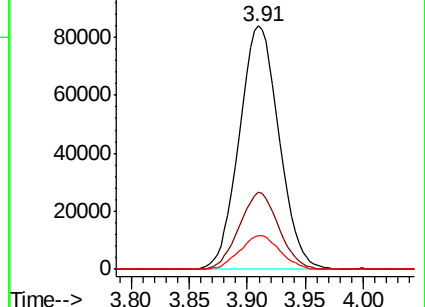
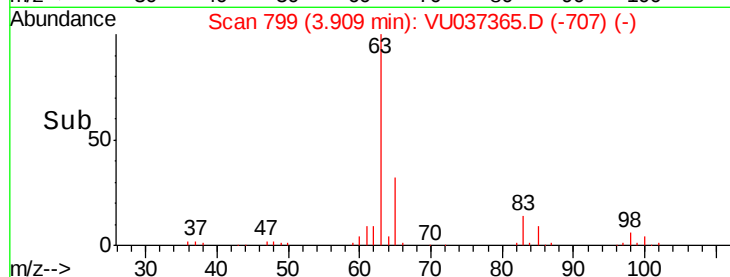
83 14.0 9.8 18.2



Abundance Ion 63.00 (62.70 to 63.70): VU037365.D (-707) (-)

Ion 65.00 (64.70 to 65.70): VU037365.D (-707) (-)

Ion 83.00 (82.70 to 83.70): VU037365.D (-707) (-)



#20

cis-1,2-Dichloroethene

Concen: 49.904 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

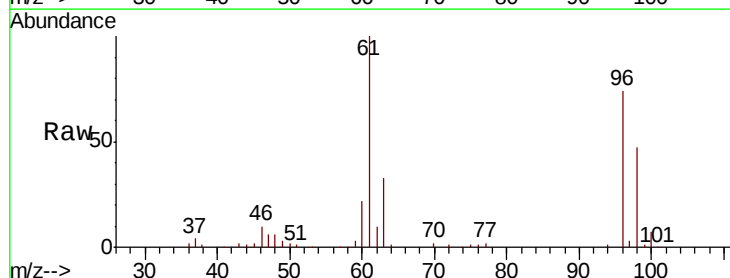
Tgt Ion: 96 Resp: 113711

Ion Ratio Lower Upper

96 100

61 135.0 96.2 178.8

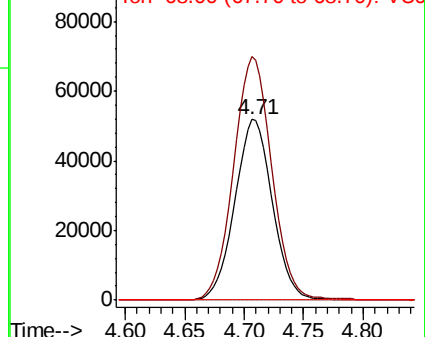
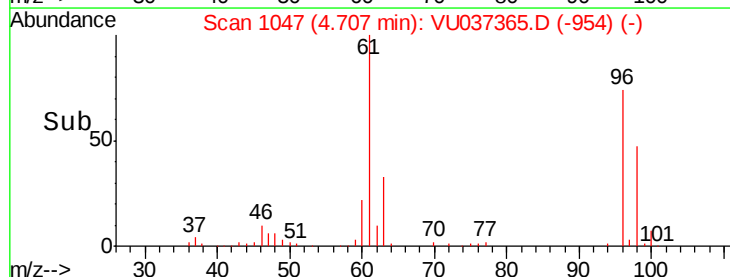
68 0.0 0.0 0.0

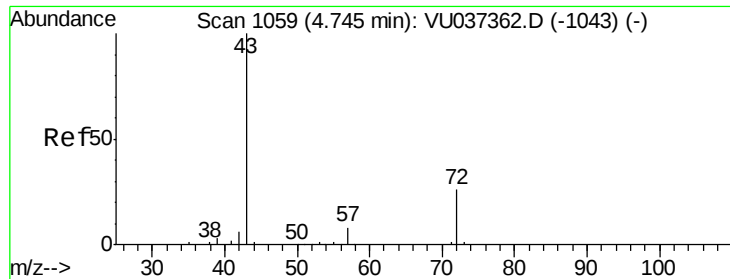


Abundance Ion 96.00 (95.70 to 96.70): VU037365.D (-954) (-)

Ion 61.00 (60.70 to 61.70): VU037365.D (-954) (-)

Ion 68.00 (67.70 to 68.70): VU037365.D (-954) (-)





#22

2-Butanone

Concen: 100.692 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

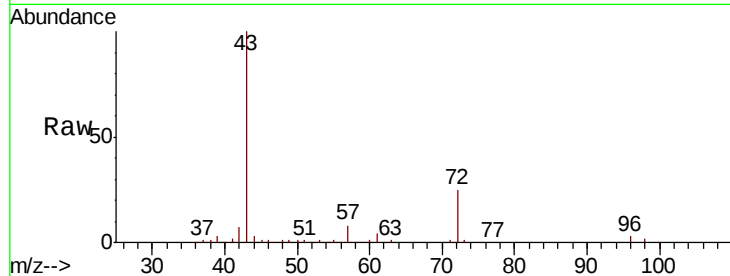
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 193943

Ion Ratio Lower Upper

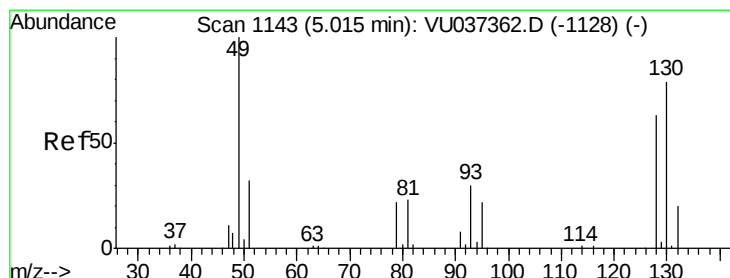
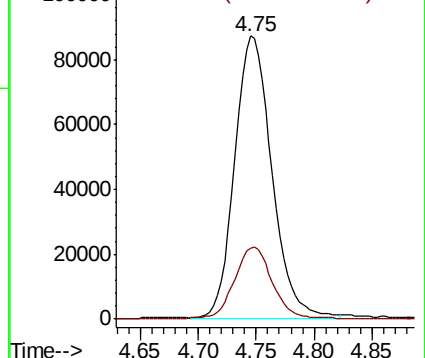
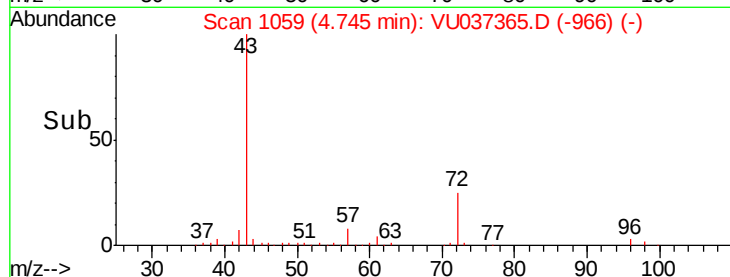
43 100

72 26.3 13.2 39.5



Abundance Ion 43.00 (42.70 to 43.70): VU037365.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU037365.D (-966) (-)



#23

Bromochloromethane

Concen: 49.540 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Tgt Ion:128 Resp: 61880

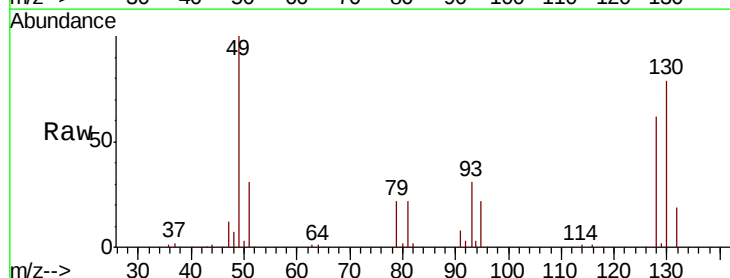
Ion Ratio Lower Upper

128 100

49 162.3 112.1 208.1

130 127.7 88.0 163.4

51 50.4 40.3 60.5

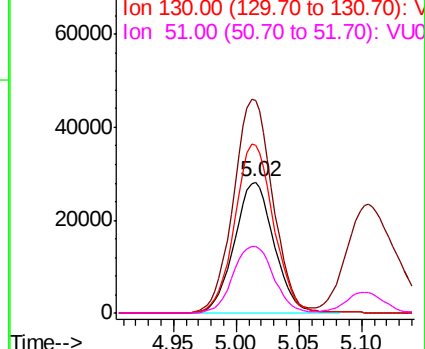
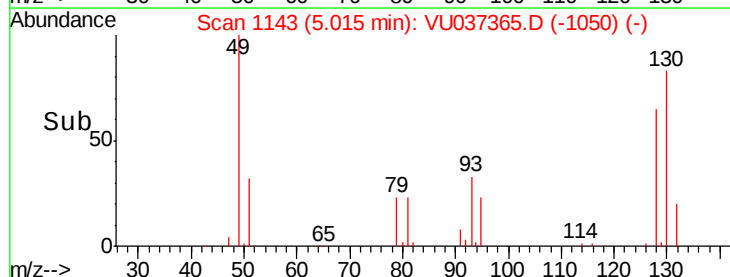


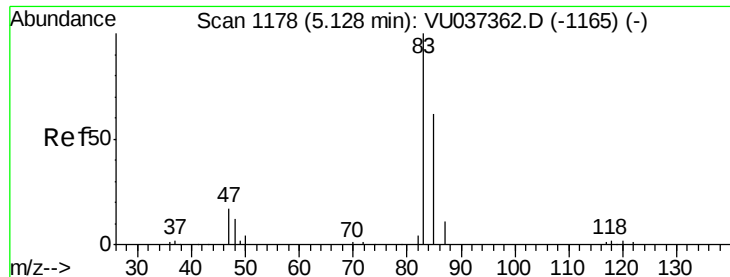
Abundance Ion 128.00 (127.70 to 128.70): VU037365.D (-1050) (-)

Ion 49.00 (48.70 to 49.70): VU037365.D (-1050) (-)

Ion 130.00 (129.70 to 130.70): VU037365.D (-1050) (-)

Ion 51.00 (50.70 to 51.70): VU037365.D (-1050) (-)

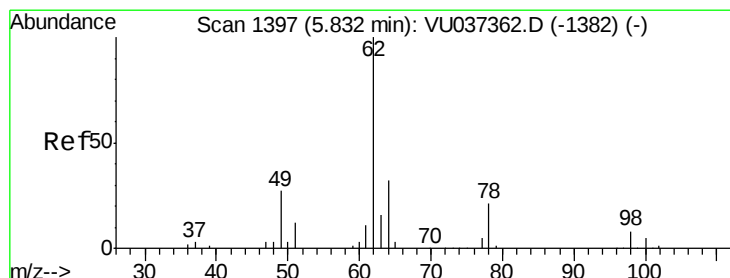
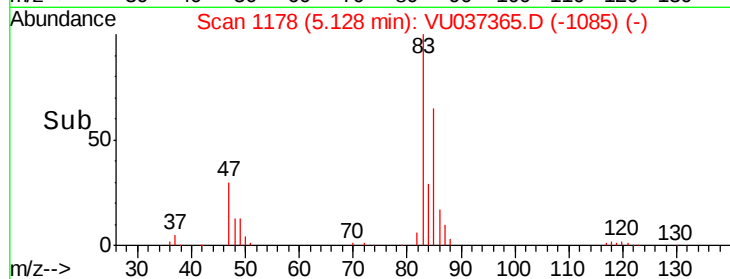
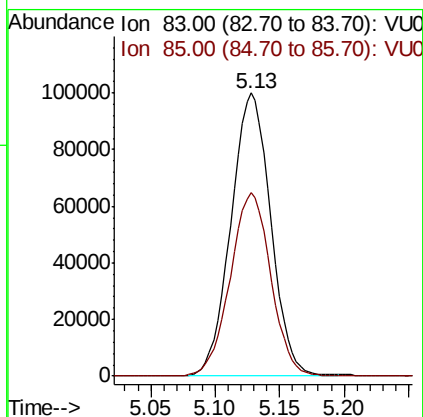
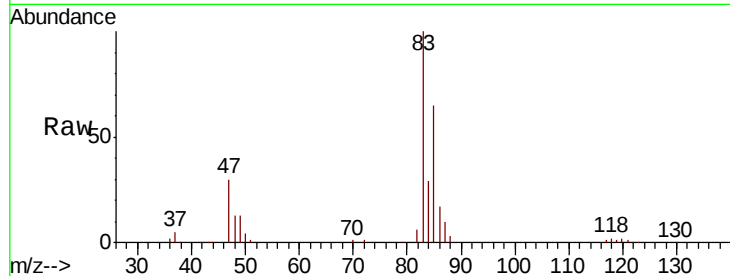




#25
Chloroform
Concen: 47.907 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

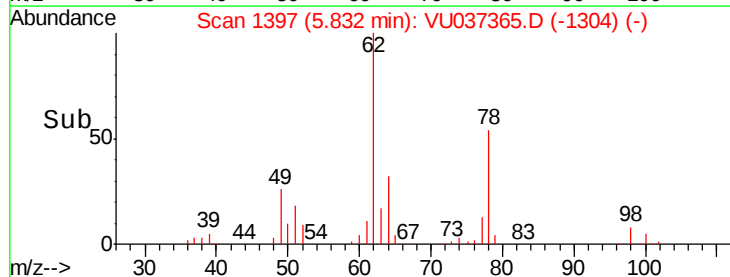
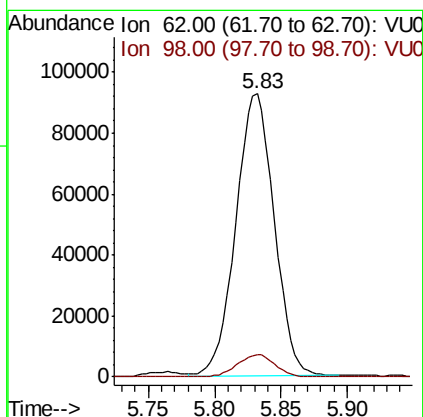
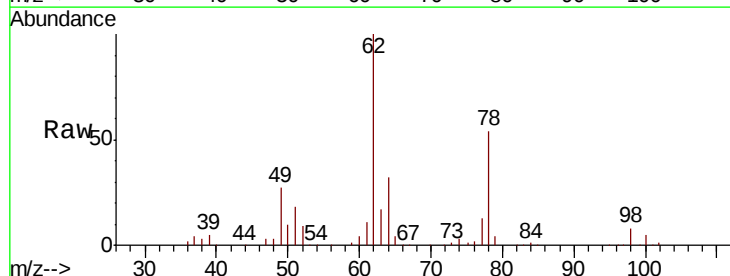
Instrument :
MSVOA_U
ClientSampled :

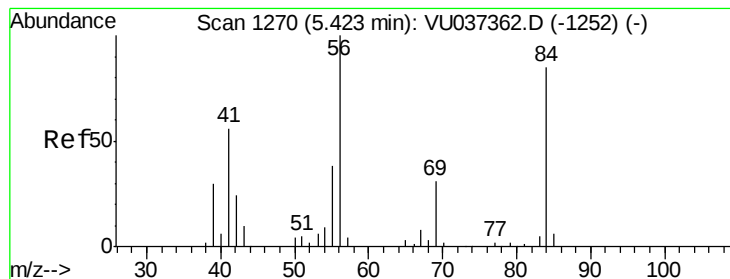
Tot Ion: 83 Resp: 214405
Ion Ratio Lower Upper
83 100
85 64.6 44.9 83.5



#27
1,2-Dichloroethane
Concen: 48.975 ug/L
RT: 5.83 min Scan# 1397
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Tgt Ion: 62 Resp: 186639
Ion Ratio Lower Upper
62 100
98 7.9 6.6 10.0





#29

Cyclohexane

Concen: 49.684 ug/L

RT: 5.42 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :
MSVOA_U
ClientSampleId :

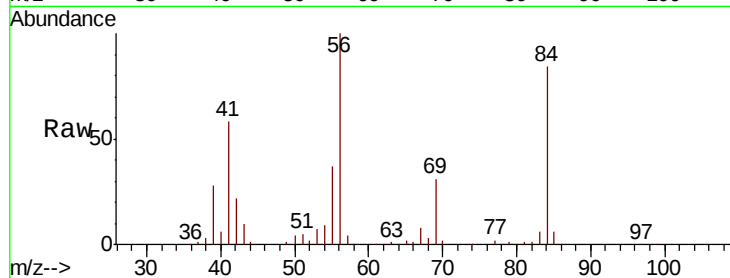
Tot Ion: 56 Resp: 164537

Ion Ratio Lower Upper

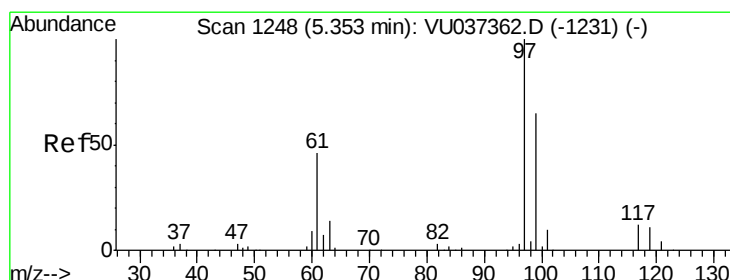
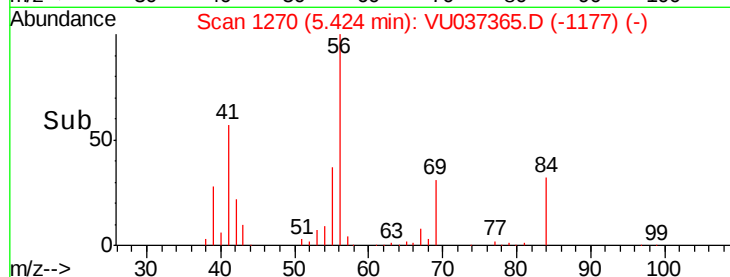
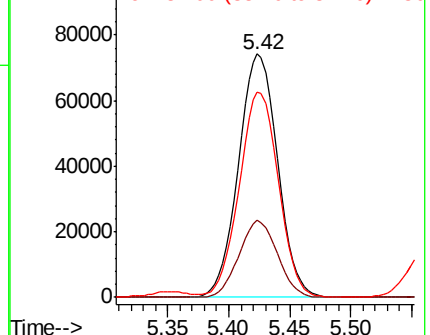
56 100

69 31.0 24.8 37.2

84 84.6 68.2 102.4



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: 50.739 ug/L

RT: 5.35 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

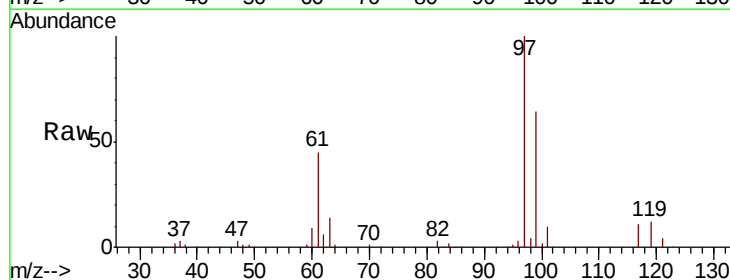
Tgt Ion: 97 Resp: 199009

Ion Ratio Lower Upper

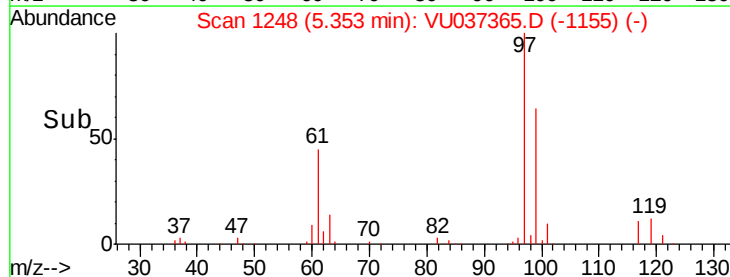
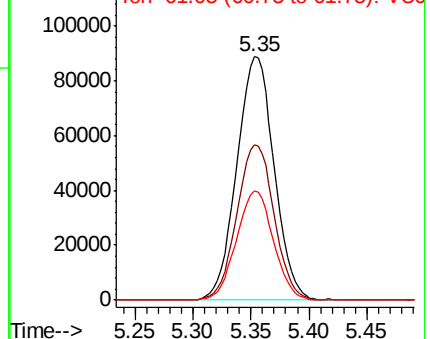
97 100

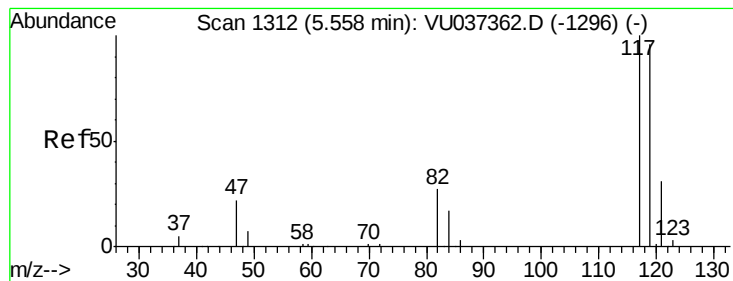
99 63.6 51.7 77.5

61 44.4 36.6 54.8



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: 50.054 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

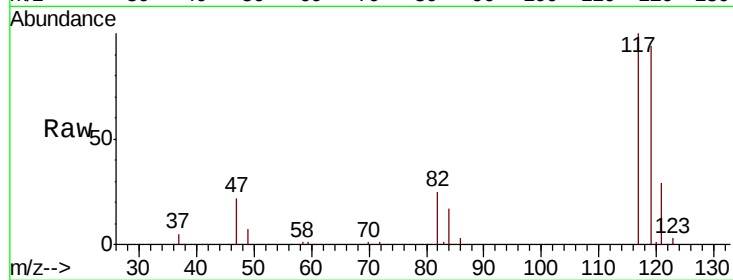
ClientSampleId :

Tot Ion:117 Resp: 172282

Ion Ratio Lower Upper

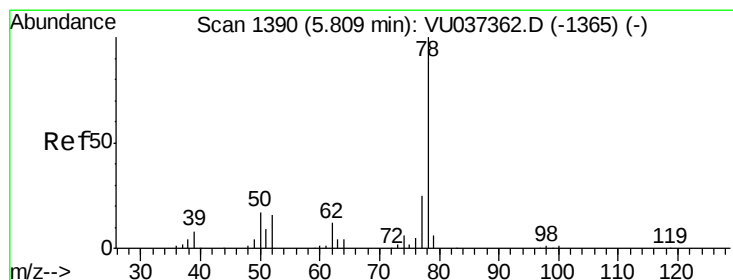
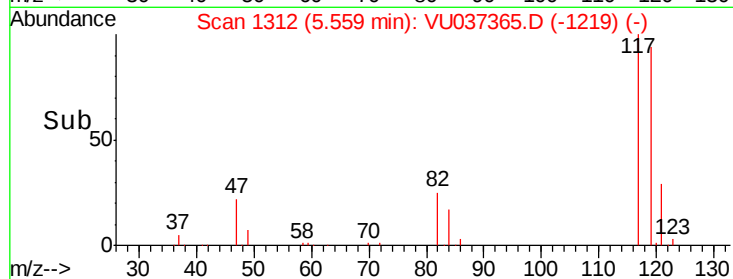
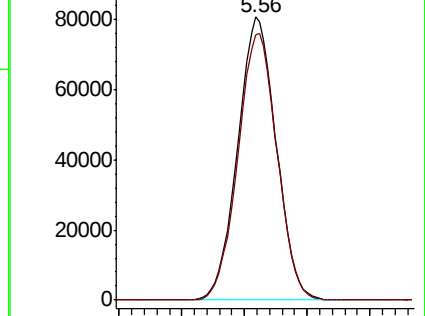
117 100

119 95.6 77.6 116.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 51.335 ug/L

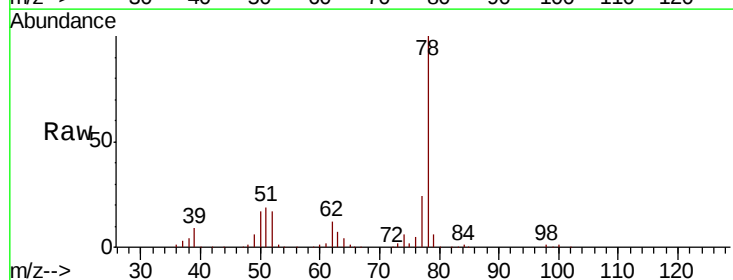
RT: 5.81 min Scan# 1390

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Tgt Ion: 78 Resp: 435947



Abundance Ion 78.00 (77.70 to 78.70): VU0

250000

200000

150000

100000

50000

0

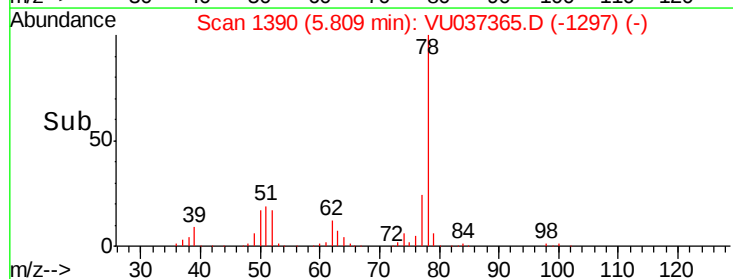
5.70

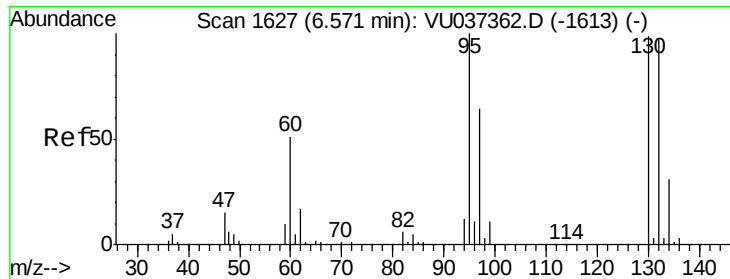
5.80

5.90

Time-->

Chromatogram showing abundance (0 to 250000) versus time (5.70 to 5.90 minutes). A single sharp peak is visible at 5.81 minutes.

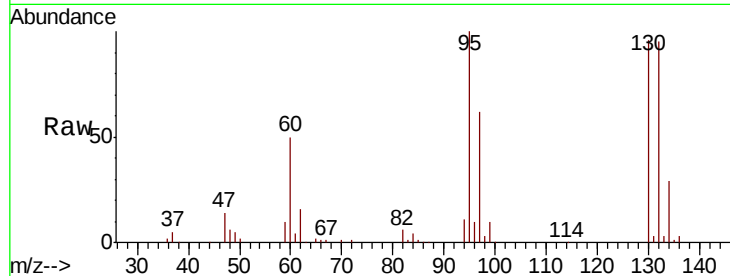




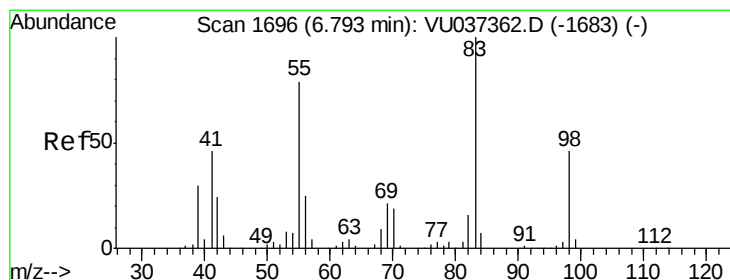
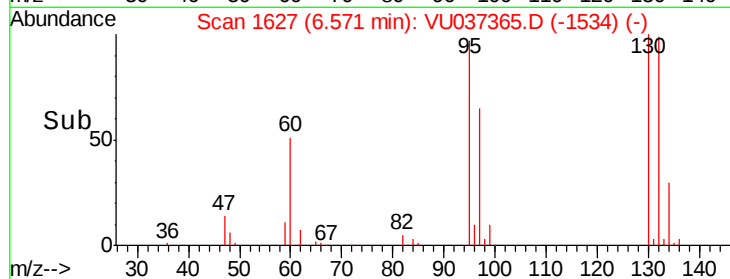
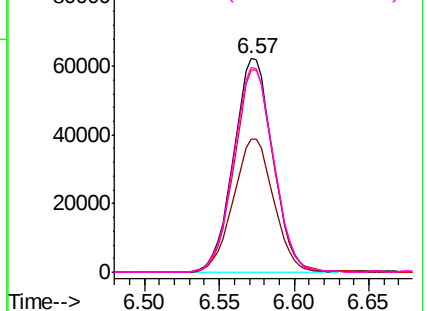
#34
 Trichloroethene
 Concen: 50.937 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU037365.D
 Acq: 21 Mar 2020 20:06

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 95 Resp: 113617
 Ion Ratio Lower Upper
 95 100
 97 62.1 44.9 83.5
 132 94.8 68.0 126.2
 130 95.9 69.6 129.2

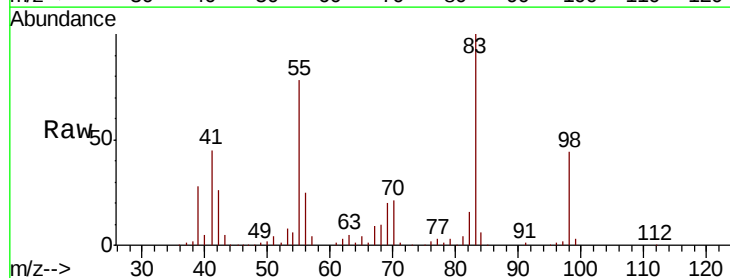


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

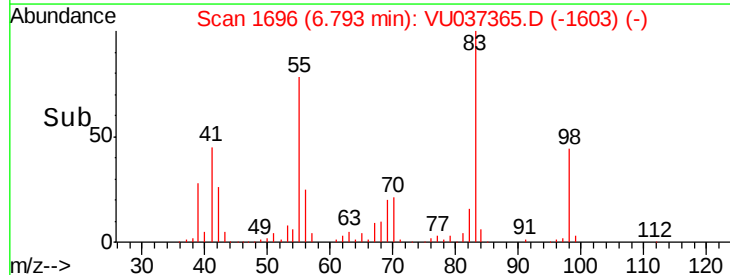
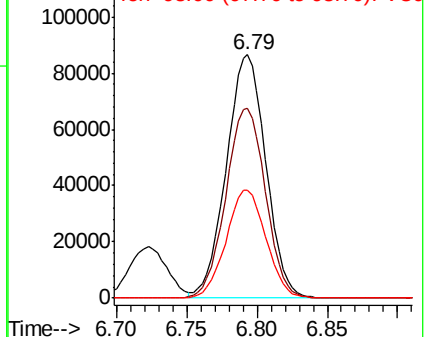


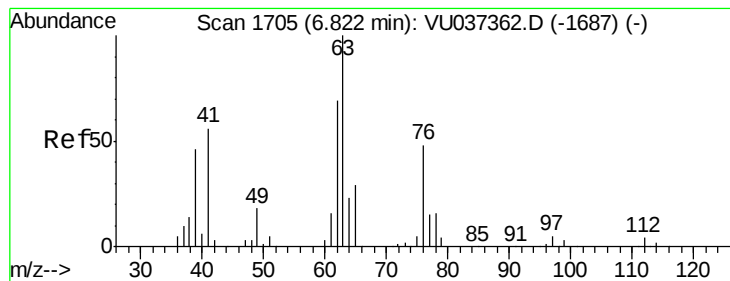
#35
 Methylcyclohexane
 Concen: 50.505 ug/L
 RT: 6.79 min Scan# 1696
 Delta R.T. 0.00 min
 Lab File: VU037365.D
 Acq: 21 Mar 2020 20:06

Tgt Ion: 83 Resp: 169756
 Ion Ratio Lower Upper
 83 100
 55 78.1 64.3 96.5
 98 44.8 36.5 54.7



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: 51.308 ug/L

RT: 6.82 min Scan# 1705

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

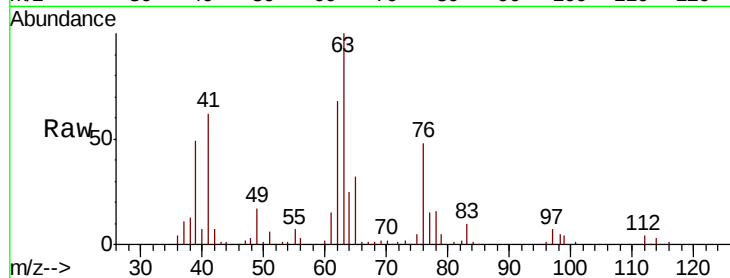
ClientSampleId :

Tot Ion: 63 Resp: 117459

Ion Ratio Lower Upper

63 100

112 4.0 3.0 4.4



Abundance Ion 63.00 (62.70 to 63.70): VU037362.D (-1687) (-)

Ion 112.00 (111.70 to 112.70): VU037362.D (-1687) (-)

6.82

60000

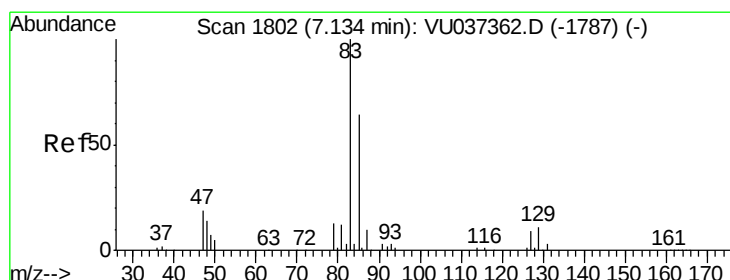
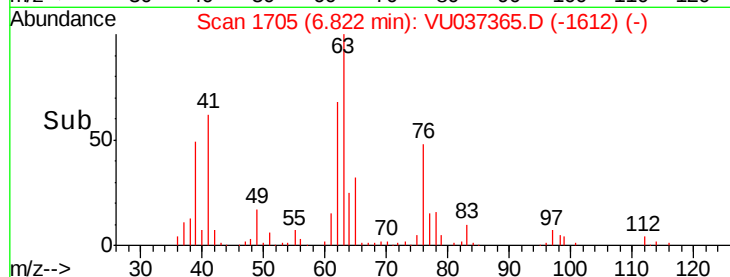
40000

20000

0

6.75 6.80 6.85 6.90

Time-->



#38

Bromodichloromethane

Concen: 51.206 ug/L

RT: 7.13 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

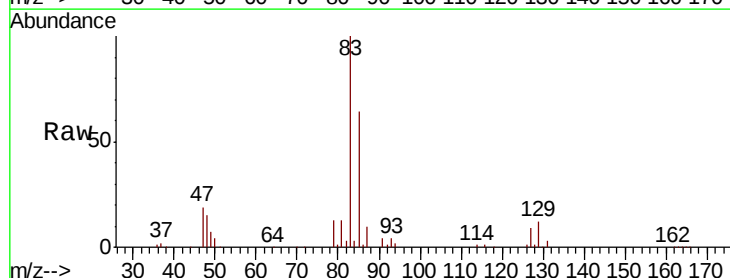
Tgt Ion: 83 Resp: 165191

Ion Ratio Lower Upper

83 100

85 64.1 45.0 83.6

127 9.2 7.0 10.4



Abundance Ion 83.00 (82.70 to 83.70): VU037362.D (-1787) (-)

Ion 85.00 (84.70 to 85.70): VU037362.D (-1787) (-)

Ion 127.00 (126.70 to 127.70): VU037362.D (-1787) (-)

7.13

120000

100000

80000

60000

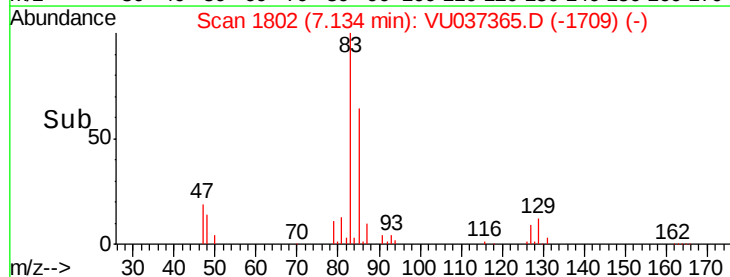
40000

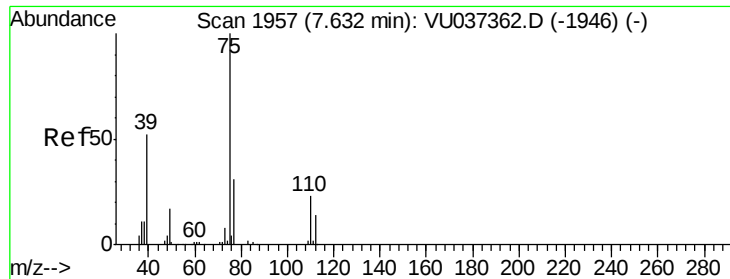
20000

0

7.05 7.10 7.15 7.20

Time-->



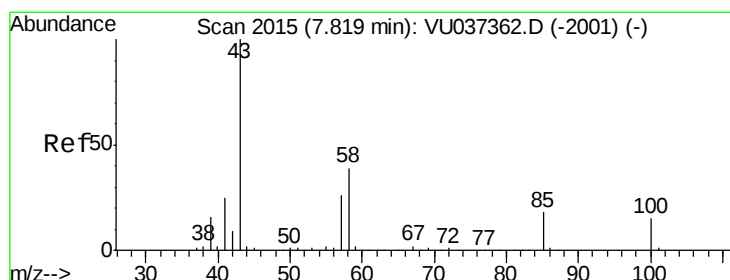
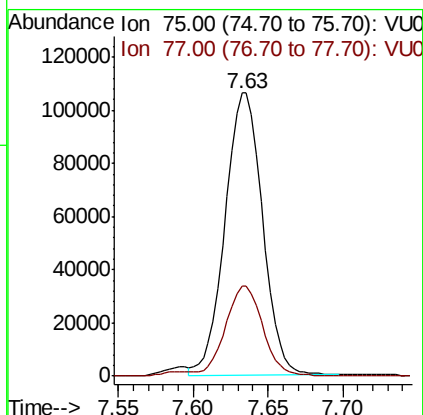
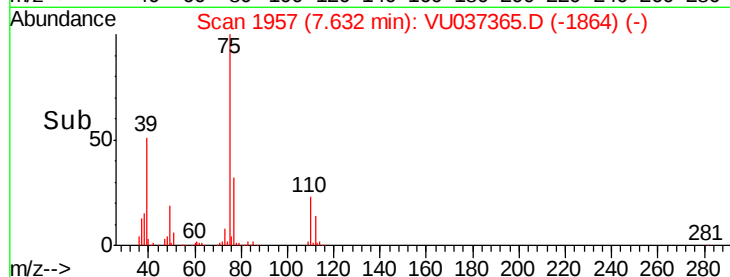
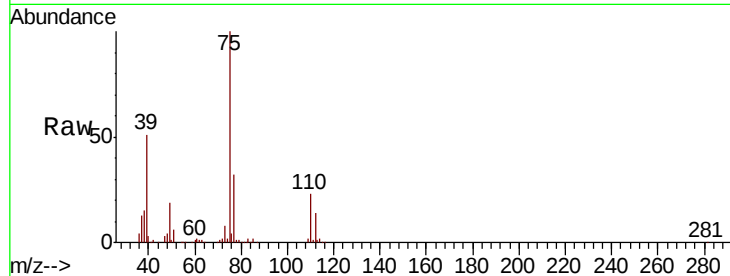


#39

cis-1,3-Dichloropropene
Concen: 52.303 ug/L
RT: 7.63 min Scan# 1957
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Instrument :
MSVOA_U
ClientSampleId :

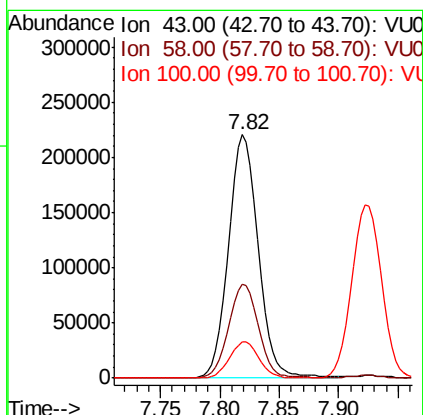
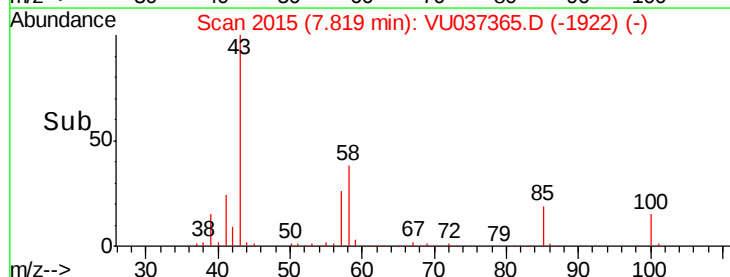
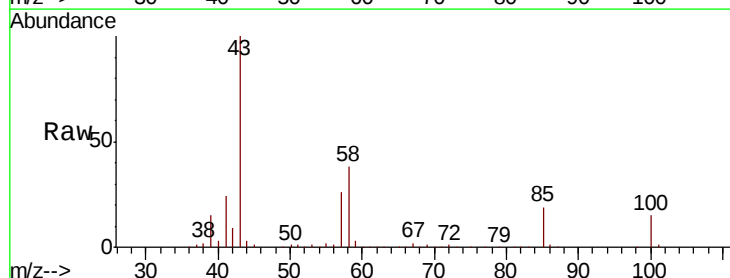
Tot Ion: 75 Resp: 185533
Ion Ratio Lower Upper
75 100
77 31.7 22.3 41.3

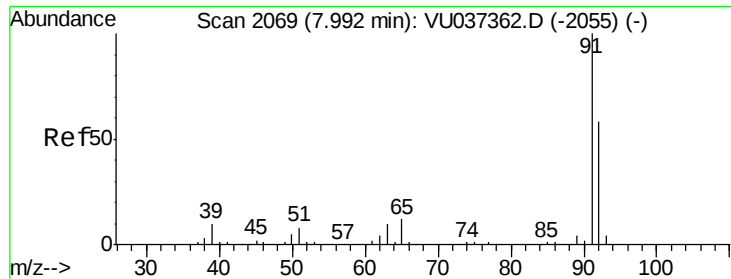


#40

4-Methyl-2-pentanone
Concen: 106.648 ug/L
RT: 7.82 min Scan# 2015
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Tgt Ion: 43 Resp: 384201
Ion Ratio Lower Upper
43 100
58 38.5 30.7 46.1
100 14.9 11.8 17.6





#42

Toluene

Concen: 51.969 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

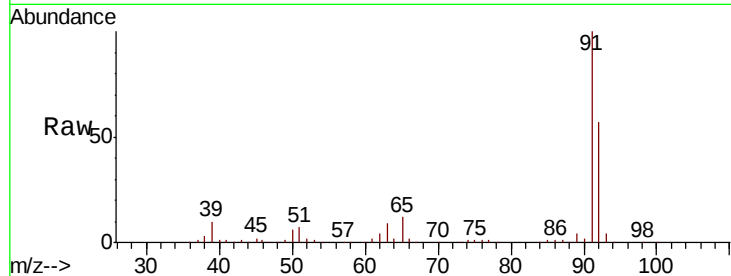
ClientSampled :

Tot Ion: 91 Resp: 477030

Ion Ratio Lower Upper

91 100

92 57.3 40.5 75.3



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0

7.99

300000

250000

200000

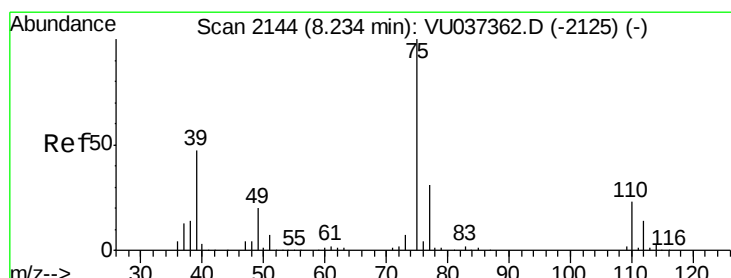
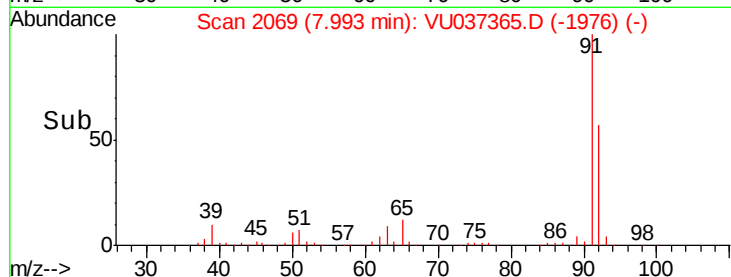
150000

100000

50000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#44

trans-1,3-Dichloropropene

Concen: 53.589 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. 0.00 min

Lab File: VU037365.D

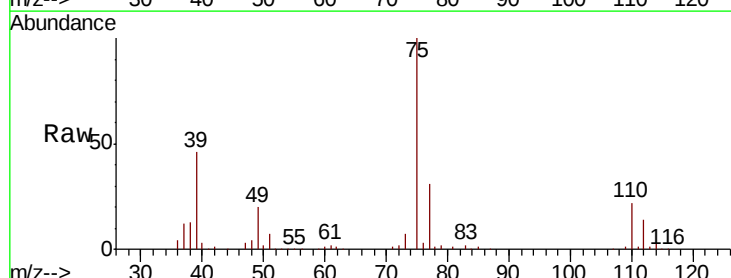
Acq: 21 Mar 2020 20:06

Tgt Ion: 75 Resp: 197146

Ion Ratio Lower Upper

75 100

77 31.1 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

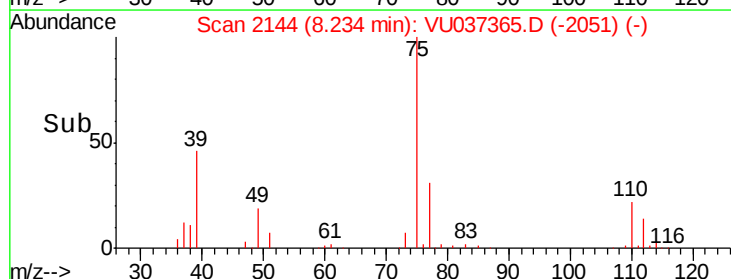
8.23

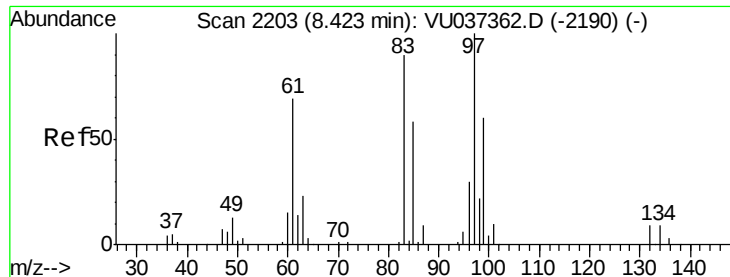
100000

50000

0

Time--> 8.20 8.30

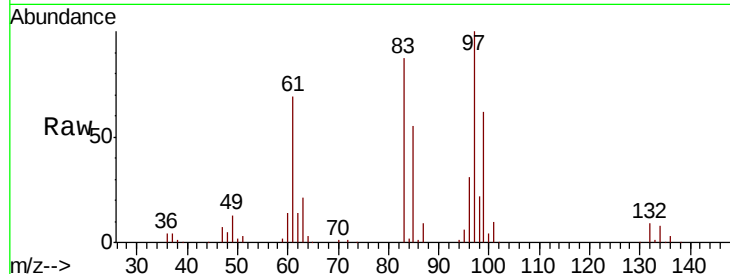




#45
1,1,2-Trichloroethane
Concen: 51.029 ug/L
RT: 8.42 min Scan# 2203
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	97	Resp:	113885
Ion	Ratio	Lower	Upper
97	100		
99	62.1	42.1	78.1
83	86.9	62.7	116.5
85	55.3	40.7	75.5



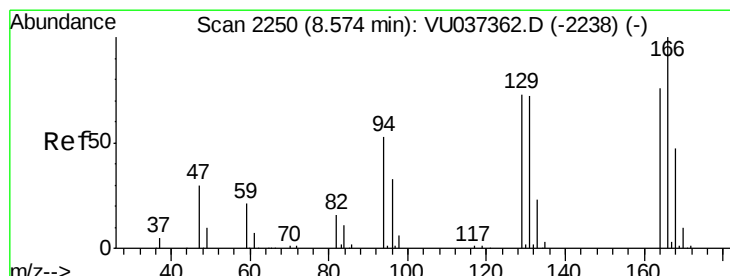
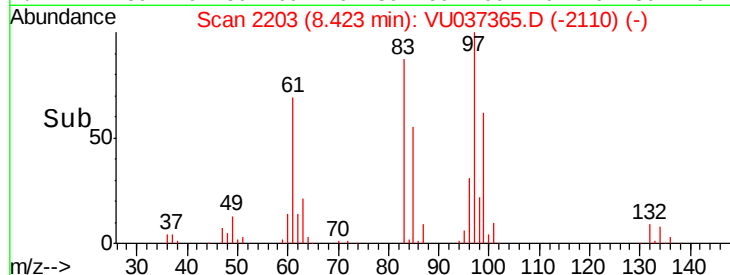
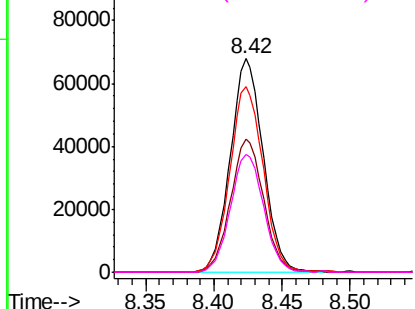
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

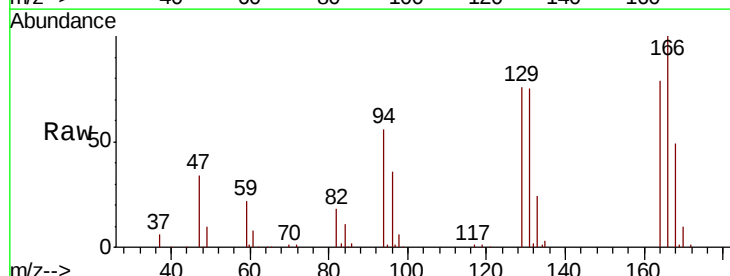
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
Tetrachloroethene
Concen: 42.925 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Tgt Ion:	164	Resp:	76351
Ion	Ratio	Lower	Upper
164	100		
129	96.8	67.1	124.5
131	94.8	65.8	122.2
166	127.3	91.6	170.2



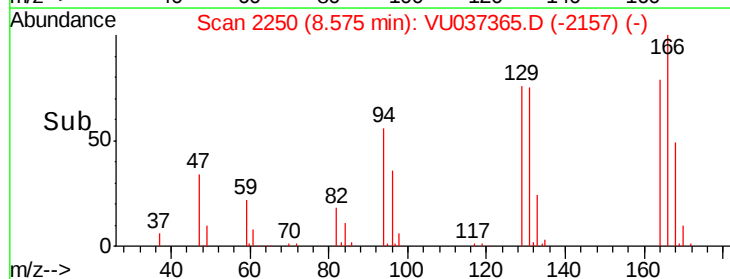
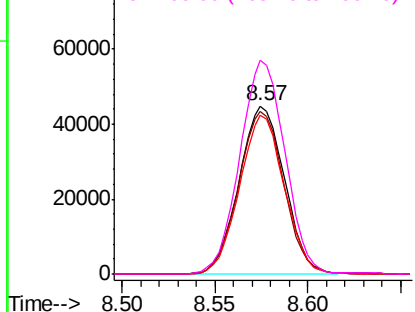
Abundance

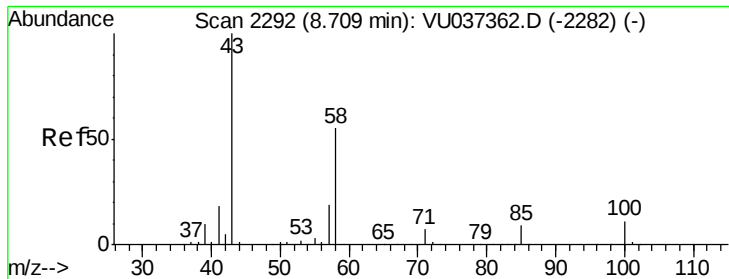
Ion 164.00 (163.70 to 164.70): V

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

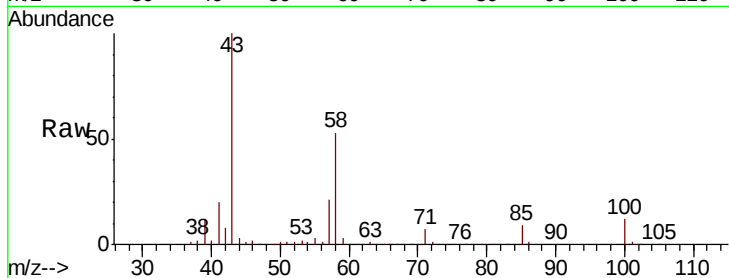




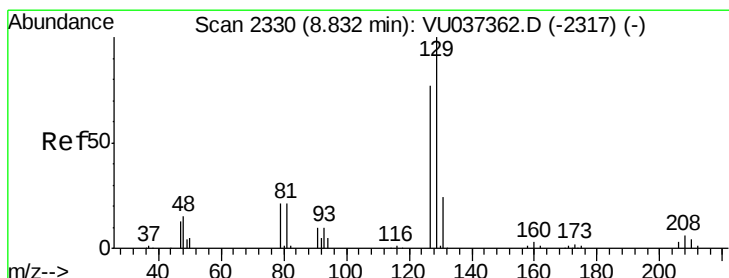
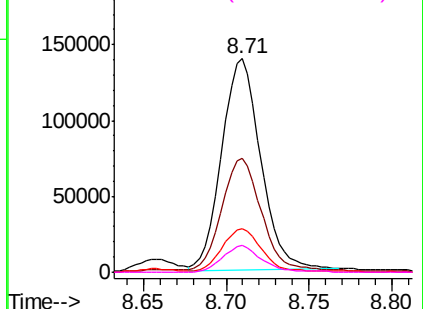
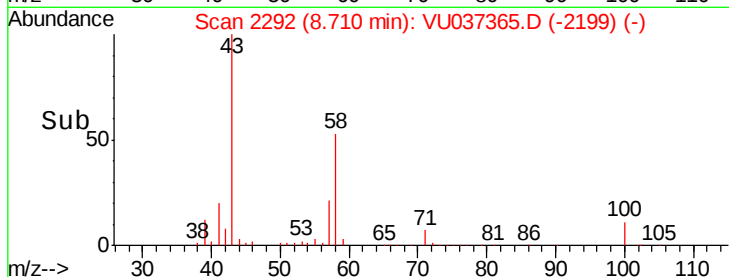
#48
2-Hexanone
Concen: 77.924 ug/L
RT: 8.71 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 227905
Ion Ratio Lower Upper
43 100
58 54.9 43.8 65.6
57 21.4 14.9 22.3
100 12.8 9.0 13.6

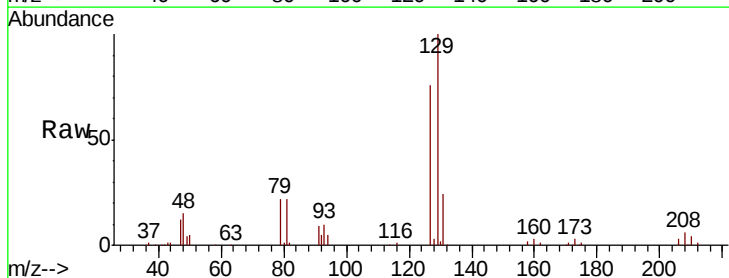


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

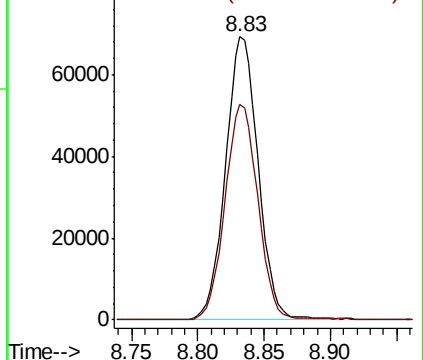
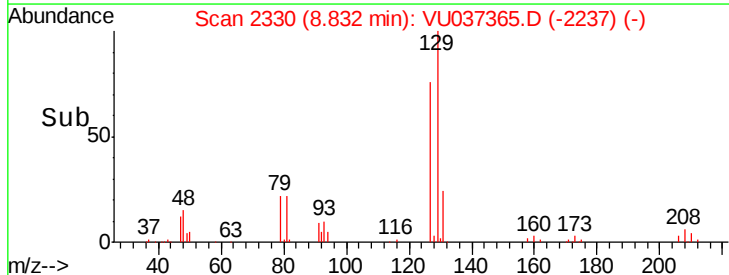


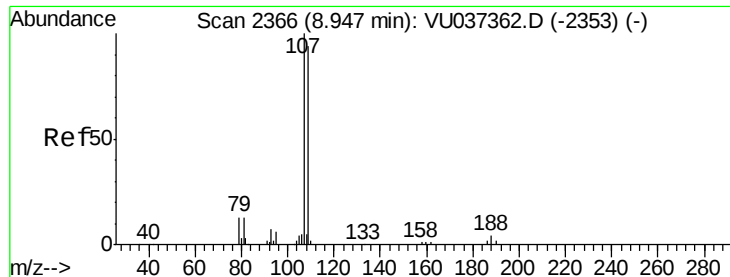
#49
Dibromochloromethane
Concen: 44.357 ug/L
RT: 8.83 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU037365.D
Acq: 21 Mar 2020 20:06

Tgt Ion: 129 Resp: 118324
Ion Ratio Lower Upper
129 100
127 76.0 54.0 100.2



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

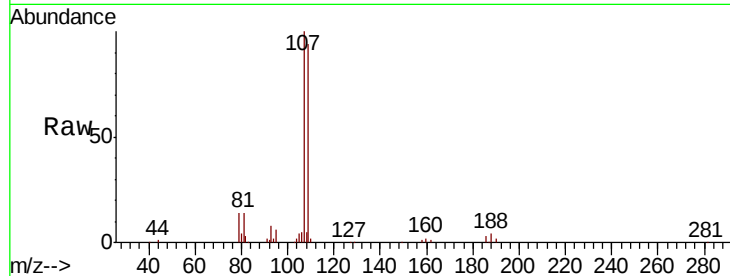




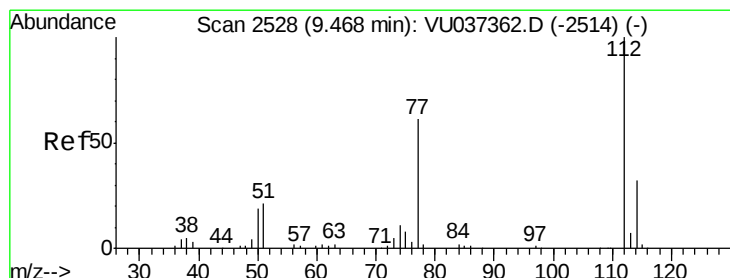
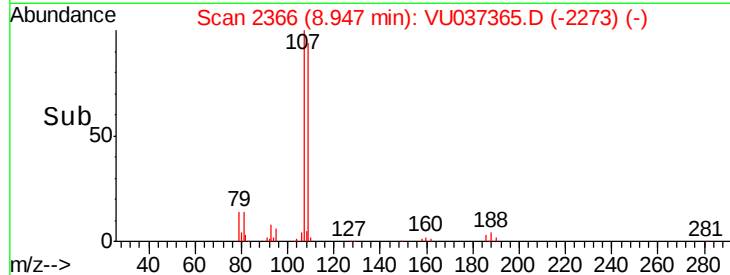
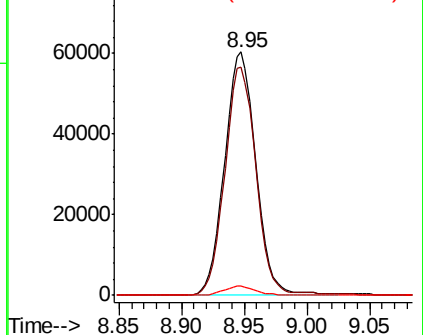
#50
 1,2-Dibromoethane
 Concen: 42.812 ug/L
 RT: 8.95 min Scan# 2366
 Delta R.T. 0.00 min
 Lab File: VU037365.D
 Acq: 21 Mar 2020 20:06

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.8	66.1	122.8
188	3.7	3.2	4.8

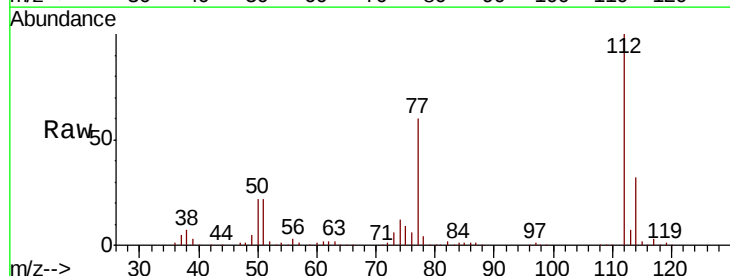


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

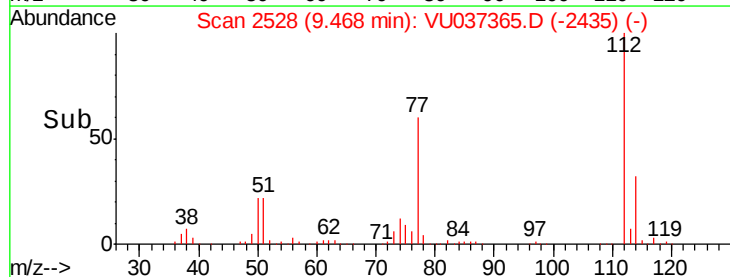
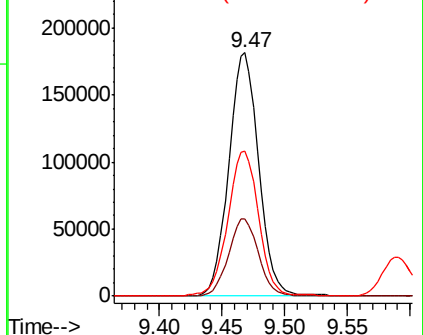


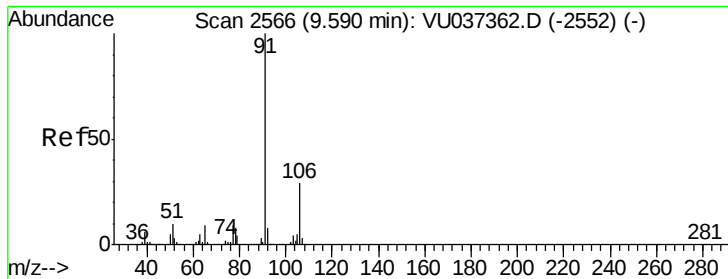
#51
 Chlorobenzene
 Concen: 51.212 ug/L
 RT: 9.47 min Scan# 2528
 Delta R.T. 0.00 min
 Lab File: VU037365.D
 Acq: 21 Mar 2020 20:06

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	22.1	41.1
77	59.8	49.6	74.4



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): VU0





#52

Ethylbenzene

Concen: 51.063 ug/L

RT: 9.59 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

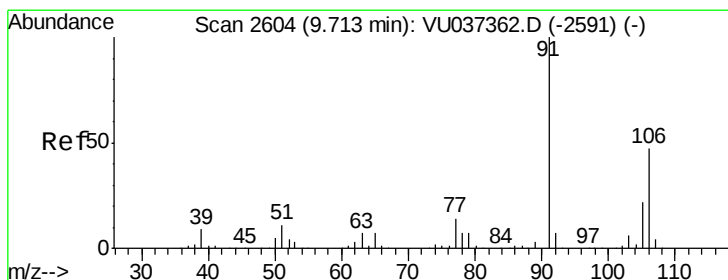
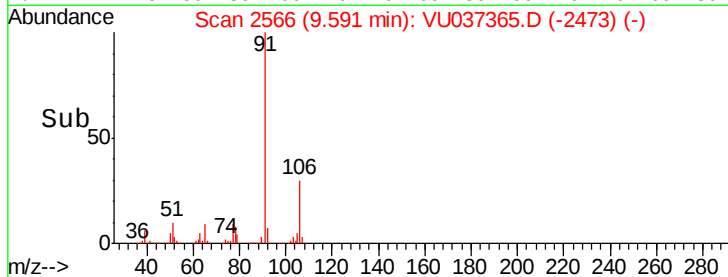
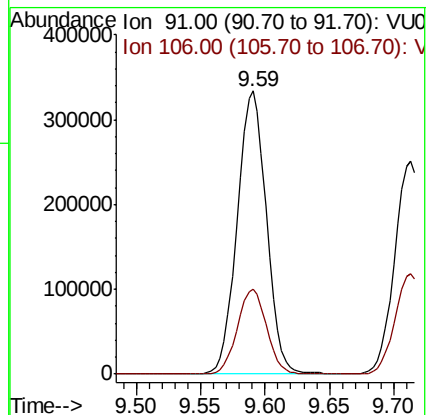
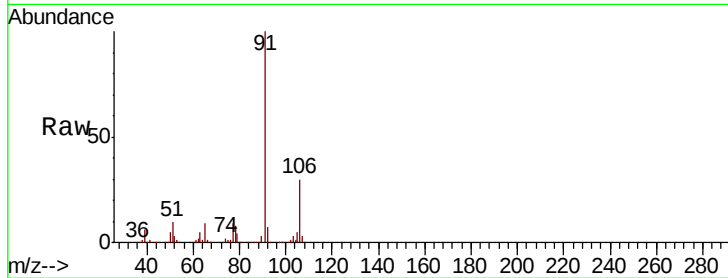
ClientSampleId :

Tot Ion: 91 Resp: 525017

Ion Ratio Lower Upper

91 100

106 30.2 20.5 38.1



#53

m,p-Xylene

Concen: 51.539 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037365.D

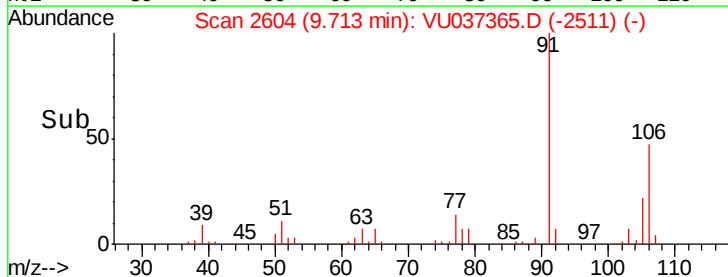
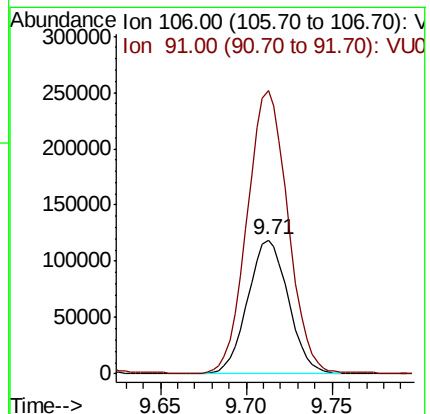
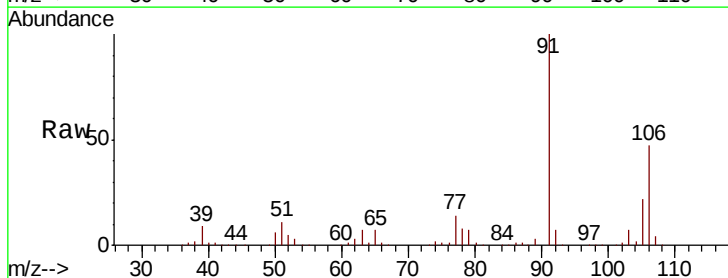
Acq: 21 Mar 2020 20:06

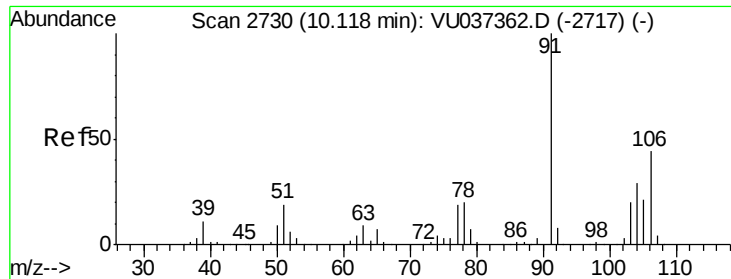
Tgt Ion: 106 Resp: 194103

Ion Ratio Lower Upper

106 100

91 211.3 149.7 277.9





#54

o-xylene

Concen: 51.469 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

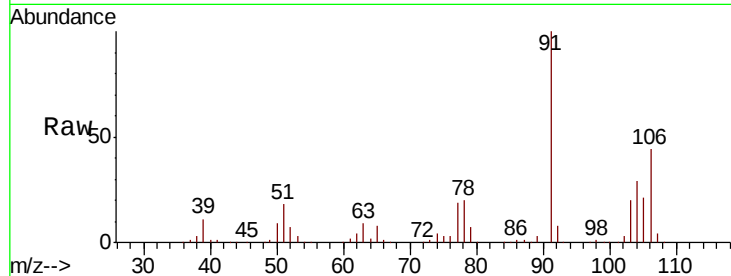
ClientSampleId :

Tot Ion:106 Resp: 192604

Ion Ratio Lower Upper

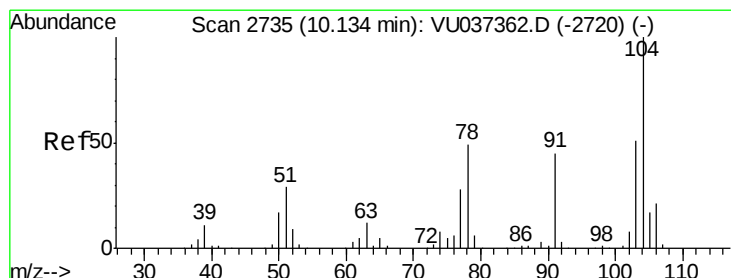
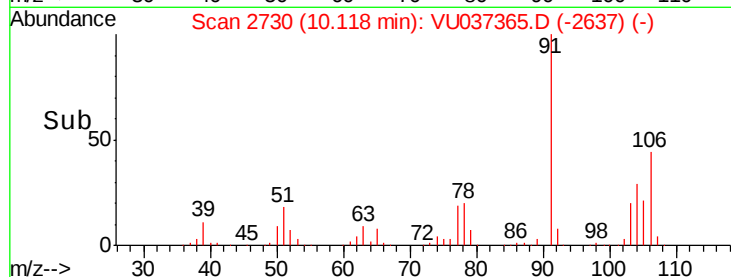
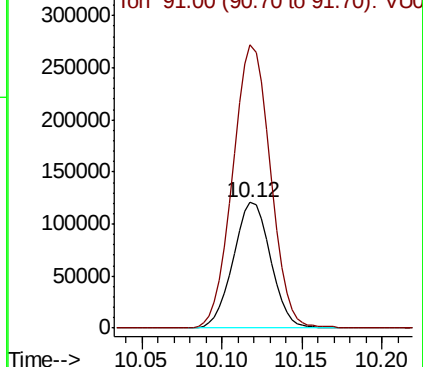
106 100

91 225.4 157.6 292.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 53.378 ug/L

RT: 10.13 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VU037365.D

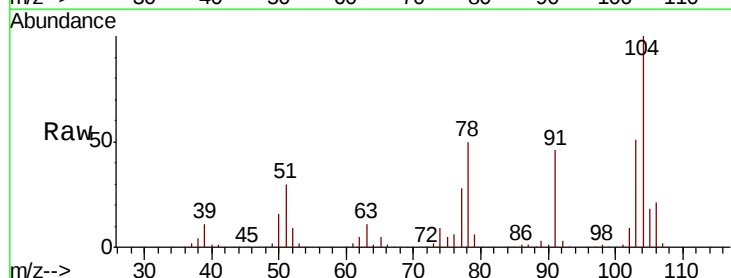
Acq: 21 Mar 2020 20:06

Tgt Ion:104 Resp: 334302

Ion Ratio Lower Upper

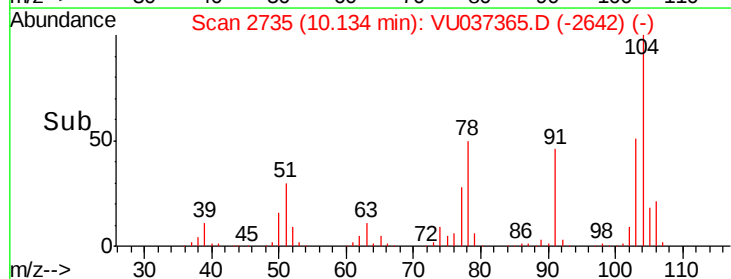
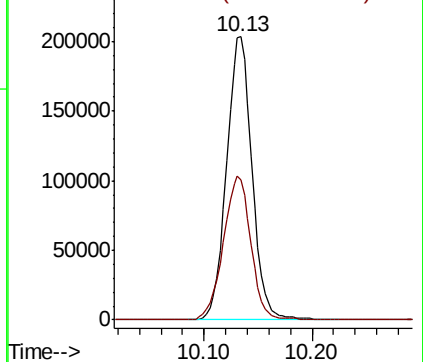
104 100

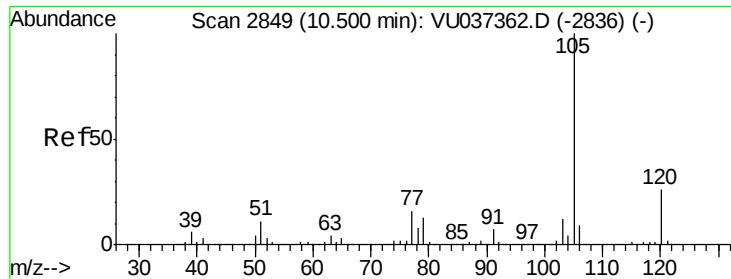
78 49.5 34.2 63.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 50.986 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

ClientSampleId :

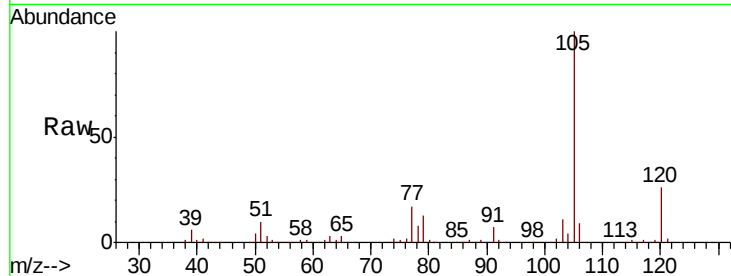
Tot Ion:105 Resp: 515010

Ion Ratio Lower Upper

105 100

120 25.6 20.8 31.2

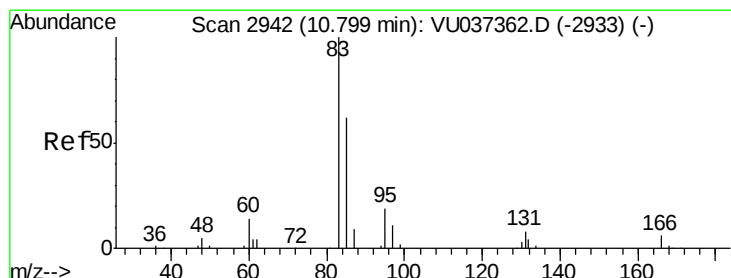
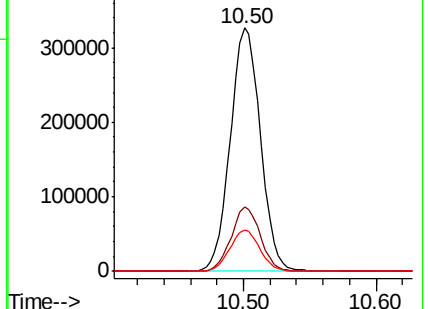
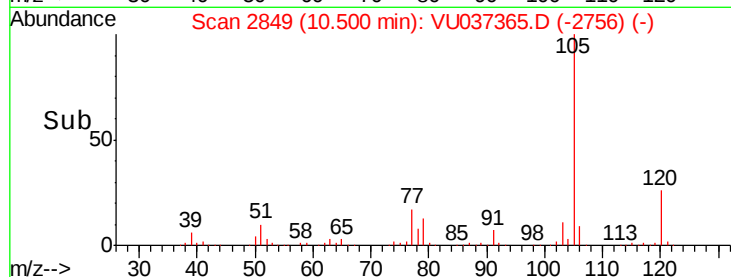
77 16.8 13.2 19.8



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: 50.004 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

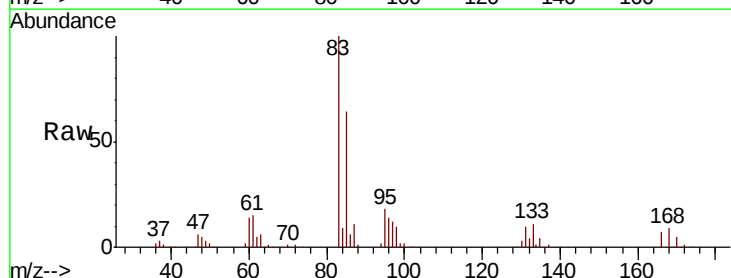
Tgt Ion: 83 Resp: 195049

Ion Ratio Lower Upper

83 100

85 64.0 45.2 84.0

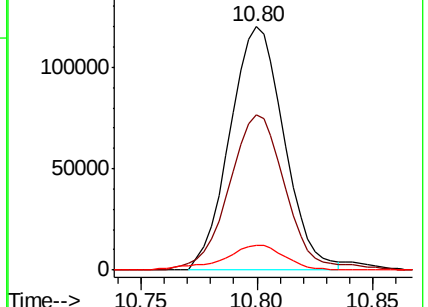
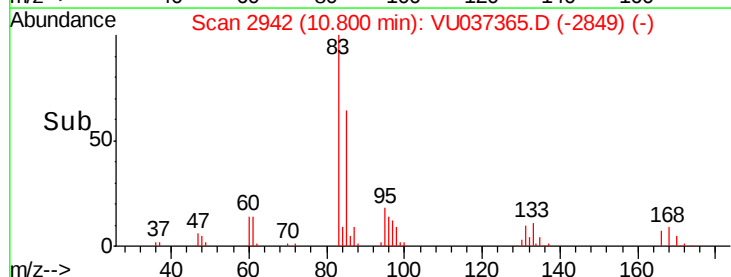
131 10.3 7.8 11.8

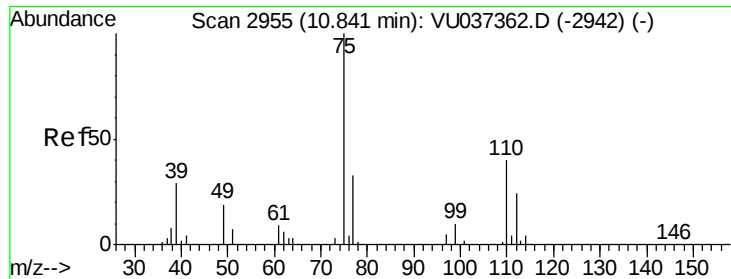


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.804 ug/L

RT: 10.84 min Scan# 2955

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

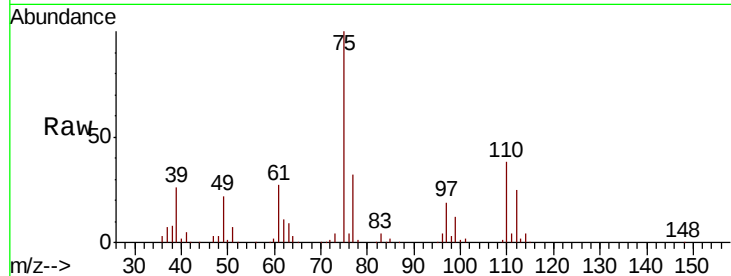
ClientSampled :

Tot Ion: 75 Resp: 166660

Ion Ratio Lower Upper

75 100

77 32.1 26.1 39.1



Abundance Ion 75.00 (74.70 to 75.70): VU037365.D (-2942) (-)

Ion 77.00 (76.70 to 77.70): VU037365.D (-2942) (-)

10.84

120000

100000

80000

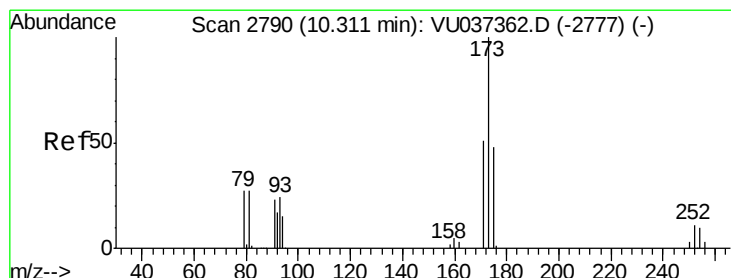
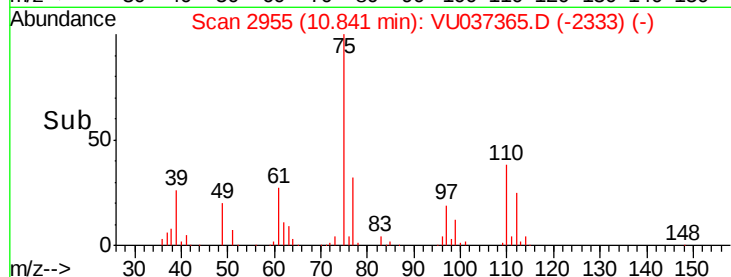
60000

40000

20000

0

Time-->



#61

Bromoform

Concen: 49.215 ug/L

RT: 10.31 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

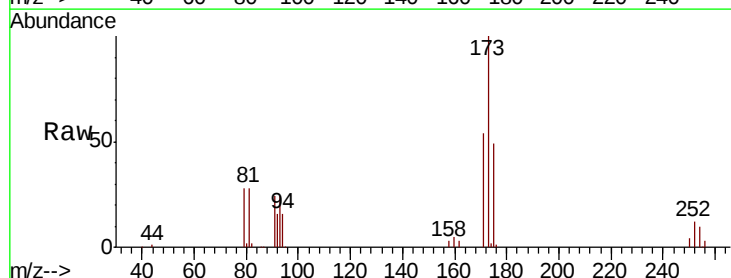
Tgt Ion: 173 Resp: 108225

Ion Ratio Lower Upper

173 100

175 48.7 38.7 58.1

254 10.2 7.8 11.8



Abundance Ion 173.00 (172.70 to 173.70): VU037365.D (-2697) (-)

Ion 175.00 (174.70 to 175.70): VU037365.D (-2697) (-)

Ion 254.00 (253.70 to 254.70): VU037365.D (-2697) (-)

10.31

80000

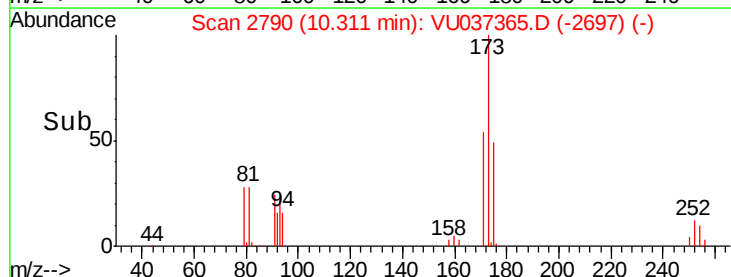
60000

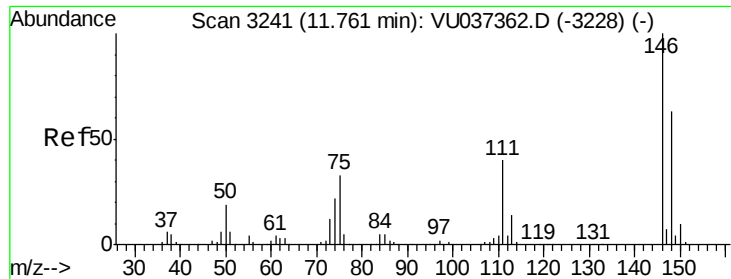
40000

20000

0

Time-->

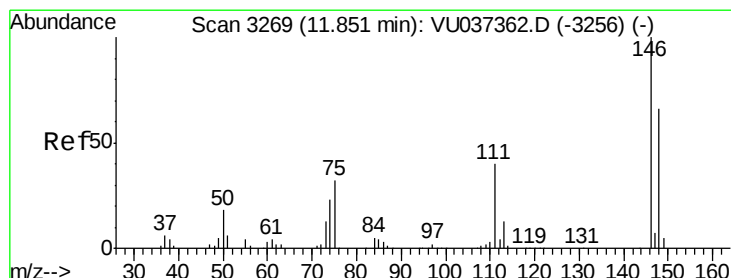
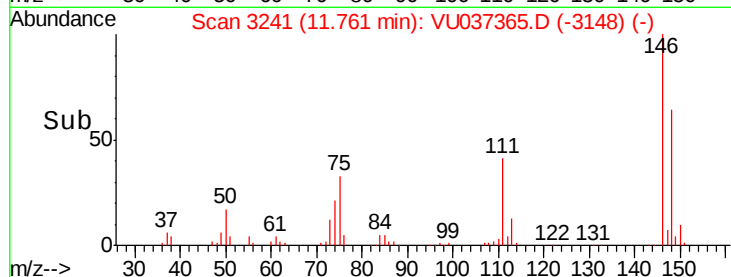
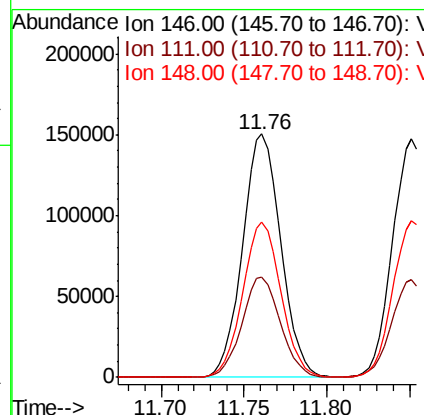
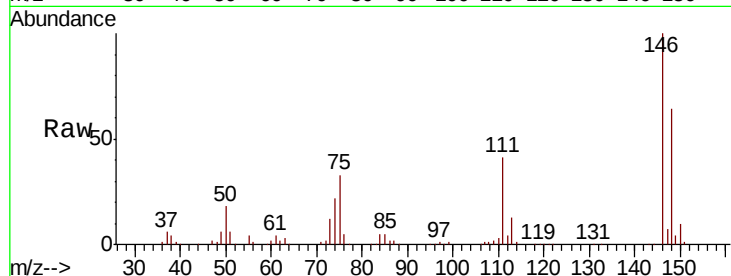




#62
 1,3-Dichlorobenzene
 Concen: 51.013 ug/L
 RT: 11.76 min Scan# 3241
 Delta R.T. 0.00 min
 Lab File: VU037365.D
 Acq: 21 Mar 2020 20:06

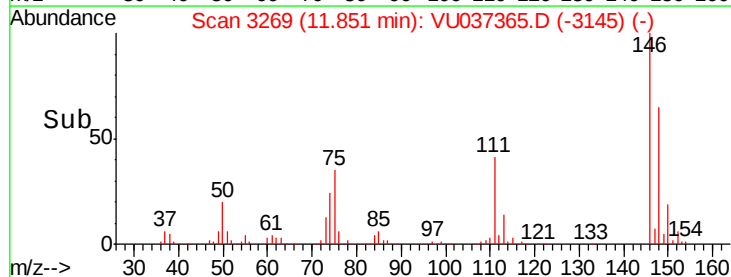
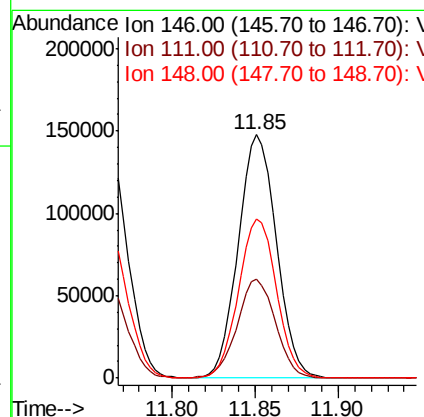
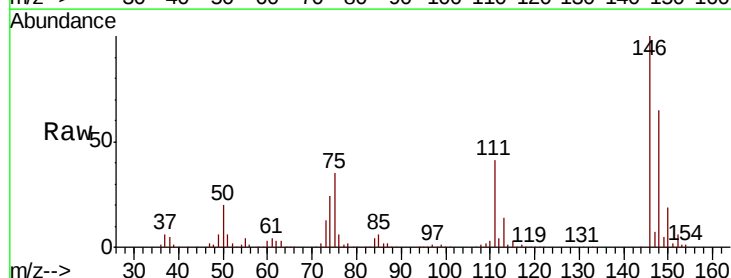
Instrument :
 MSVOA_U
 ClientSampleId :

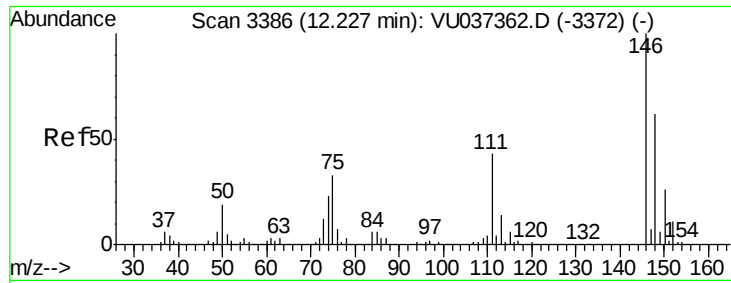
Tot Ion:146 Resp: 241458
 Ion Ratio Lower Upper
 146 100
 111 40.9 28.3 52.5
 148 63.7 43.8 81.4



#63
 1,4-Dichlorobenzene
 Concen: 50.361 ug/L
 RT: 11.85 min Scan# 3269
 Delta R.T. 0.00 min
 Lab File: VU037365.D
 Acq: 21 Mar 2020 20:06

Tgt Ion:146 Resp: 236874
 Ion Ratio Lower Upper
 146 100
 111 40.8 27.9 51.9
 148 65.3 46.2 85.8





#65

1,2-Dichlorobenzene

Concen: 50.090 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

ClientSampleId :

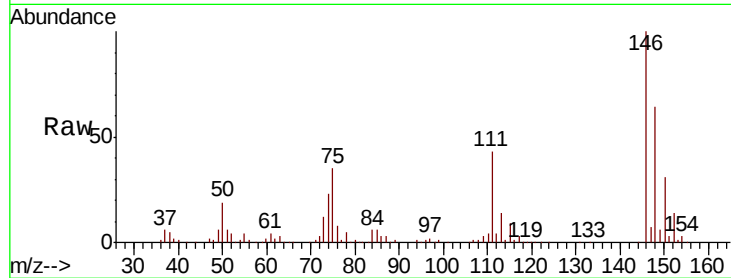
Tot Ion:146 Resp: 241445

Ion Ratio Lower Upper

146 100

111 43.1 34.7 52.1

148 64.4 49.9 74.9

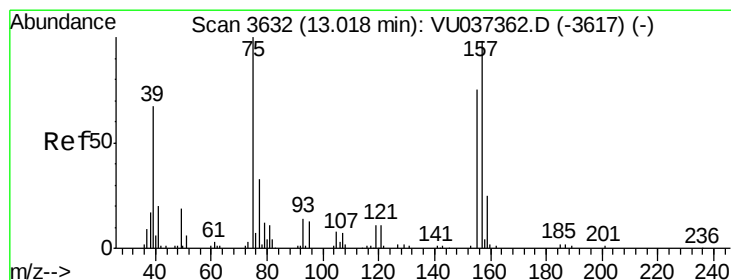
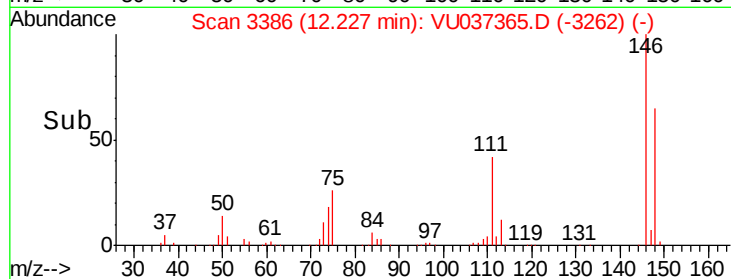
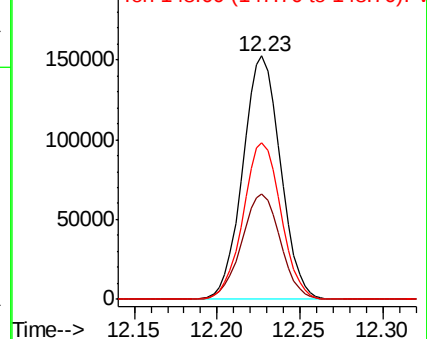


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 52.807 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

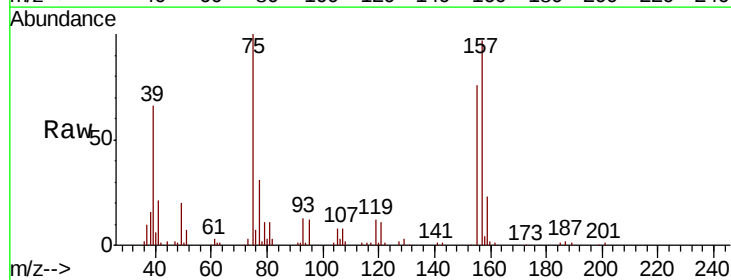
Tgt Ion: 75 Resp: 54911

Ion Ratio Lower Upper

75 100

155 75.9 59.7 89.5

157 96.7 78.8 118.2

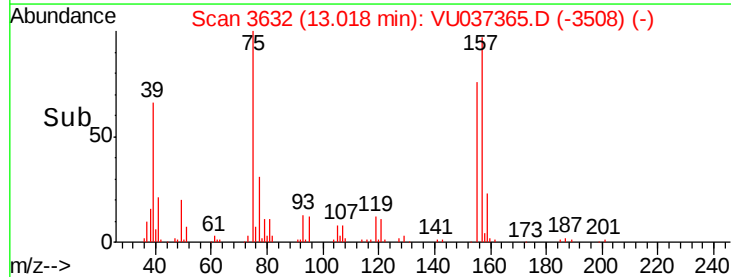
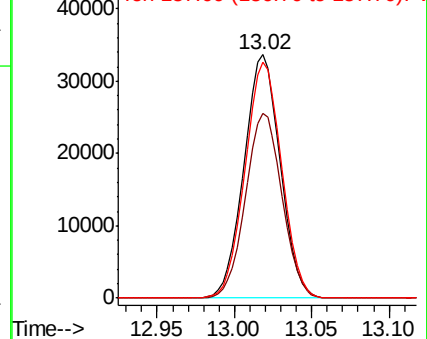


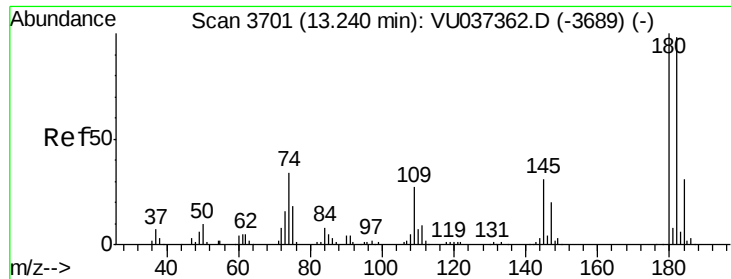
Abundance

Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

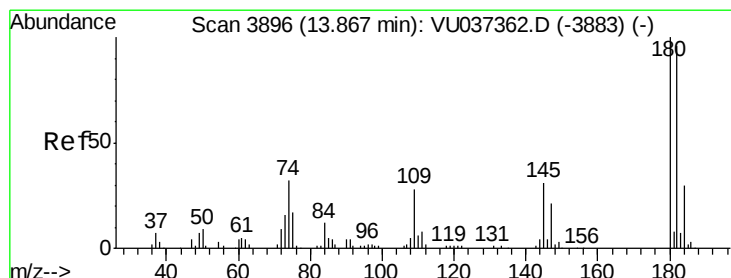
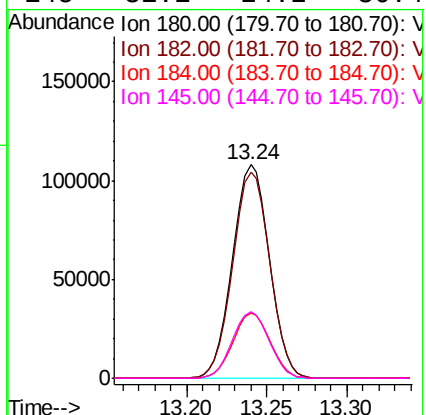
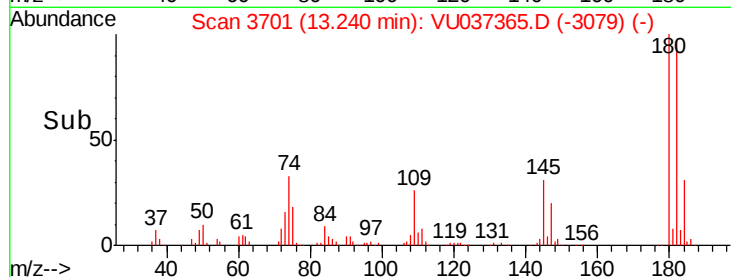
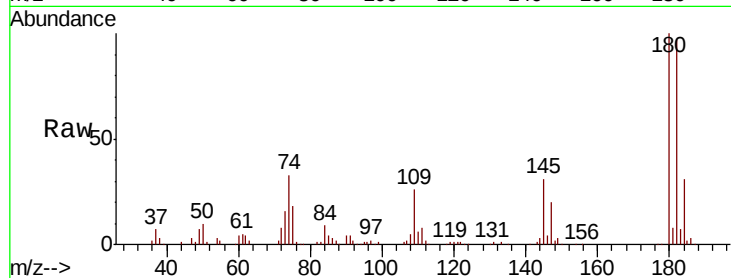




#67
 1,3,5-Trichlorobenzene
 Concen: 52.052 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU037365.D
 Acq: 21 Mar 2020 20:06

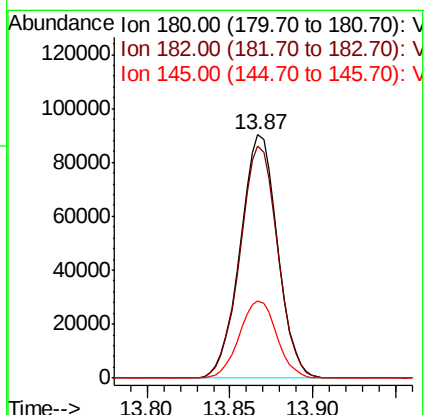
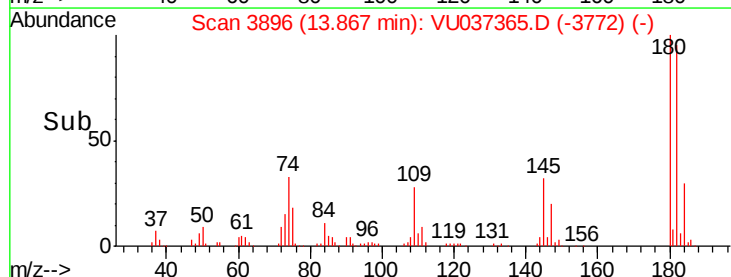
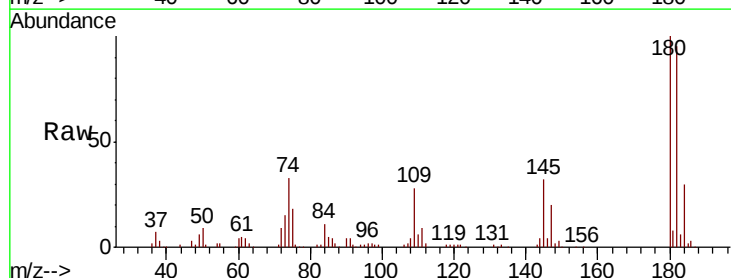
Instrument :
 MSVOA_U
 ClientSampleId :

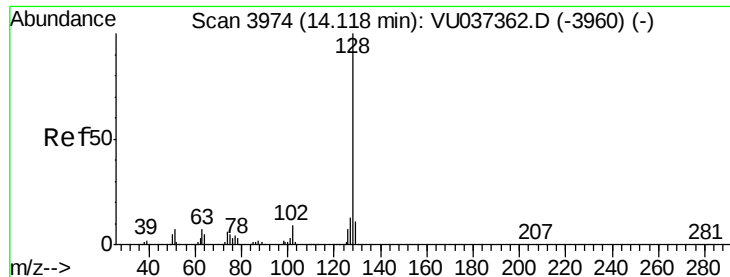
Tot Ion	Ratio	Lower	Upper
180	100		
182	97.3	77.8	116.6
184	30.8	24.7	37.1
145	31.1	24.2	36.4



#68
 1,2,4-trichlorobenzene
 Concen: 56.325 ug/L
 RT: 13.87 min Scan# 3896
 Delta R.T. 0.00 min
 Lab File: VU037365.D
 Acq: 21 Mar 2020 20:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.0	115.4
145	31.8	24.6	36.8





#69

Naphthalene

Concen: 62.487 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

Instrument :

MSVOA_U

ClientSampleId :

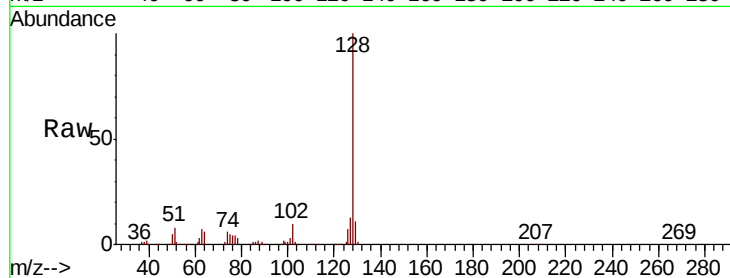
Tot Ion:128 Resp: 431349

Ion Ratio Lower Upper

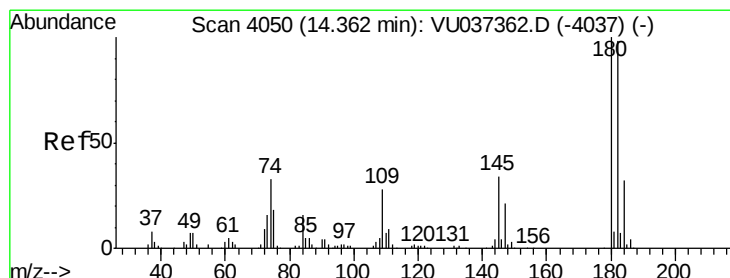
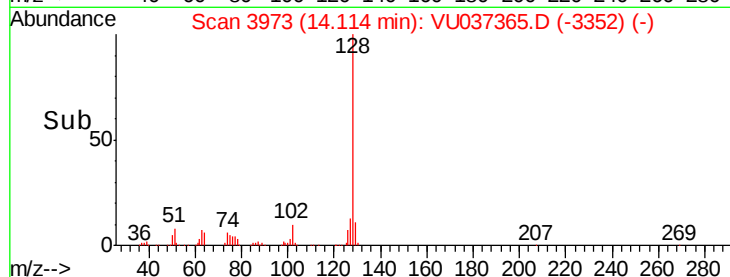
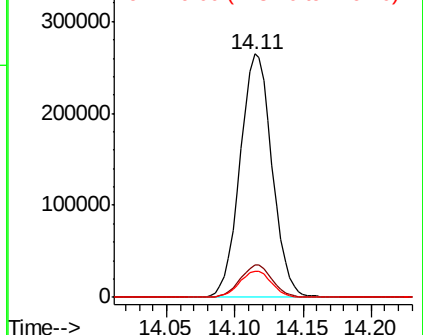
128 100

127 13.2 10.6 16.0

129 10.8 8.8 13.2



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: 57.877 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU037365.D

Acq: 21 Mar 2020 20:06

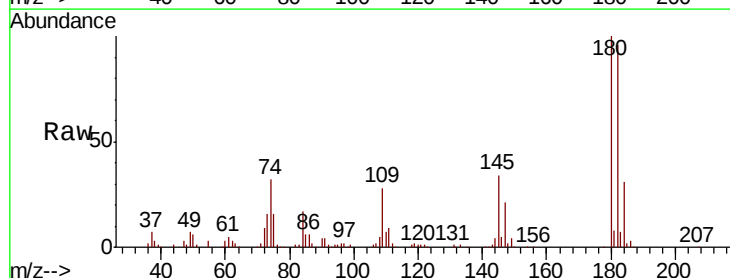
Tgt Ion:180 Resp: 149823

Ion Ratio Lower Upper

180 100

182 96.5 76.3 114.5

145 33.4 26.9 40.3



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

