

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011121\
 Data File : VU041950.D
 Acq On : 12 Jan 2021 03:23
 Operator : SY/MD
 Sample : M1027-13
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXK7

Quant Time: Jan 12 05:53:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR011121WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 12 05:50:11 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	106980	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	109706	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	41511	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	46001	5.10	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.00%
7) Chloroethane-d5	1.92	69	44936	5.38	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.60%
11) 1,1-Dichloroethene-d2	2.58	63	63757	3.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	74.60%
20) 2-Butanone-d5	4.65	46	140798	56.19	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.38%
24) Chloroform-d	5.08	84	82543	5.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.40%
26) 1,2-Dichloroethane-d4	5.72	65	48128	5.55	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.00%
32) Benzene-d6	5.74	84	155469	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
36) 1,2-Dichloropropane-d6	6.70	67	52169	5.12	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.40%
41) Toluene-d8	7.90	98	139986	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
43) trans-1,3-Dichloropropene-	8.19	79	22898	5.39	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	107.80%
46) 2-Hexanone-d5	8.64	63	149456	69.51	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	139.02%#
57) 1,1,2,2-Tetrachloroethane-	10.75	84	46544	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	44253	5.64	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	112.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	6096	0.589 ug/L	96
3) Chloromethane	1.52	50	873	0.078 ug/L	99
8) Chloroethane	1.94	64	327	0.044 ug/L #	43
9) Trichlorofluoromethane	2.15	101	1345	0.085 ug/L	92
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	659	0.077 ug/L #	30
12) 1,1-Dichloroethene	2.59	96	1667	0.200 ug/L #	1
13) Acetone	2.66	43	3658	2.248 ug/L #	30
16) Methylene chloride	3.06	84	2070	0.197 ug/L	95
17) Methyl tert-butyl Ether	3.38	73	10924	0.545 ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	689	0.085 ug/L	91
19) 1,1-Dichloroethane	3.89	63	2432	0.160 ug/L	98
22) cis-1,2-Dichloroethene	4.68	96	11628	1.343 ug/L	98
25) Chloroform	5.11	83	3759	0.237 ug/L	96
27) 1,2-Dichloroethane	5.81	62	923	0.091 ug/L #	73
29) 1,1,1-Trichloroethane	5.33	97	2597	0.181 ug/L	93
34) Trichloroethene	6.55	95	172538	18.590 ug/L	98
35) Methylcyclohexane	6.70	83	12035	0.882 ug/L #	18

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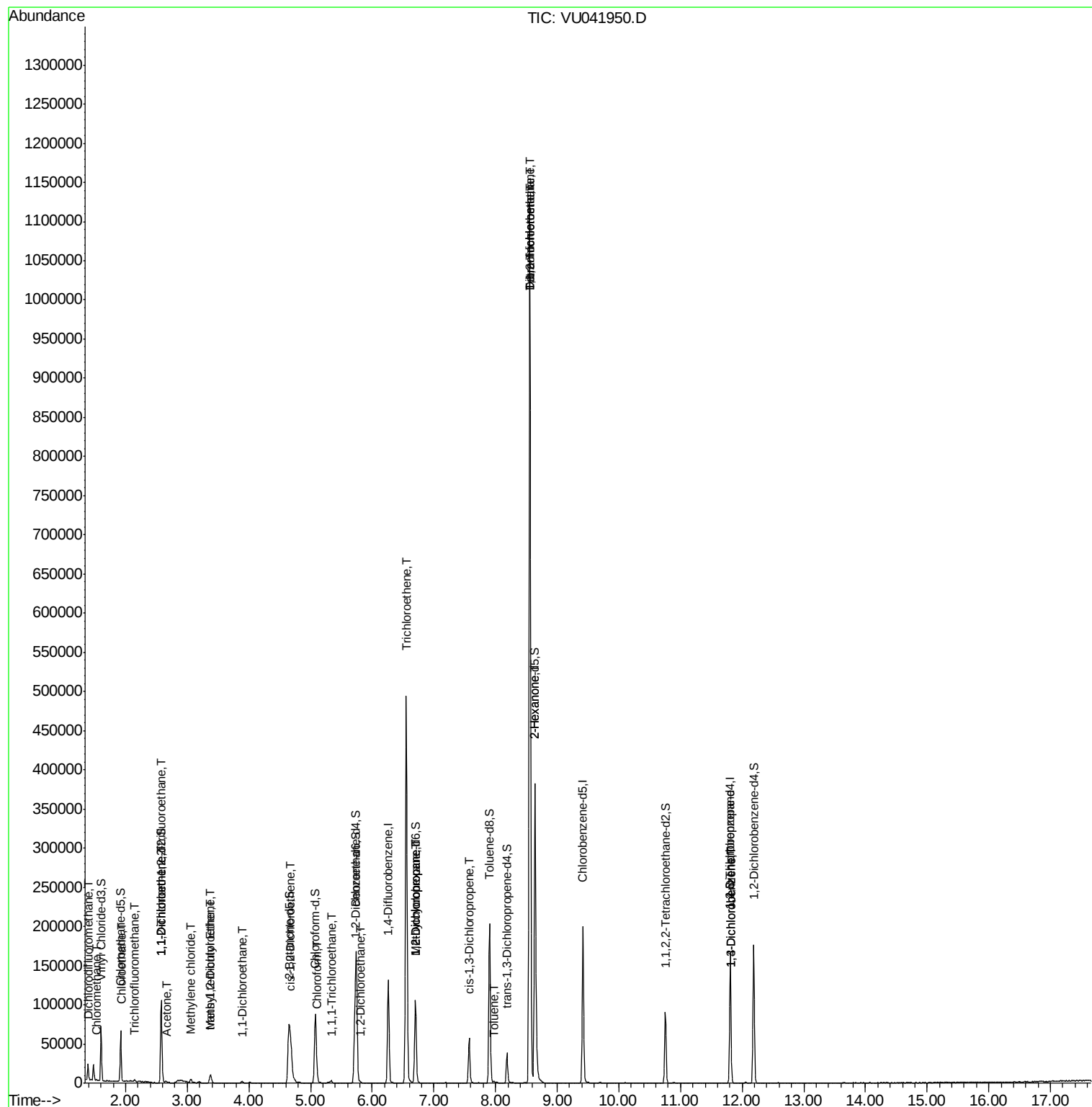
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.70	63	5441	0.617	ug/L #	88
39) cis-1,3-Dichloropropene	7.58	75	1326	0.102	ug/L #	50
42) Toluene	7.98	91	1299	0.036	ug/L	85
45) 1,1,2-Trichloroethane	8.56	97	2196	0.325	ug/L #	5
47) Tetrachloroethene	8.56	164	240105	37.178	ug/L	97
48) 2-Hexanone	8.64	43	17313	4.196	ug/L #	70
49) Dibromochloromethane	8.56	129	246077	29.911	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5594	0.869	ug/L	100
62) 1,3-Dichlorobenzene	11.83	146	719	0.055	ug/L	88
63) 1,4-Dichlorobenzene	11.83	146	719	0.054	ug/L	87

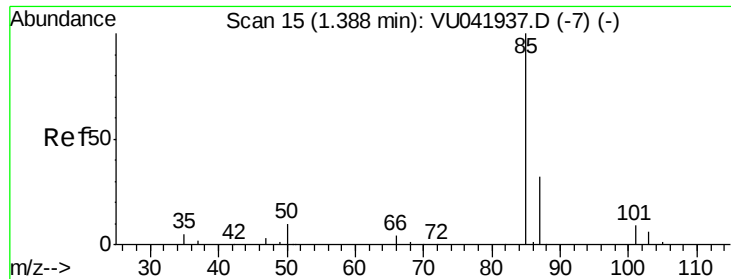
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.589 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

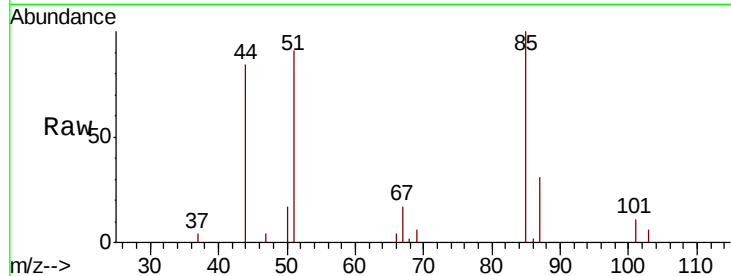
Instrument :
MSVOA_U
ClientSampleId :
BFXK7

Tot Ion: 85 Resp: 6096

Ion Ratio Lower Upper

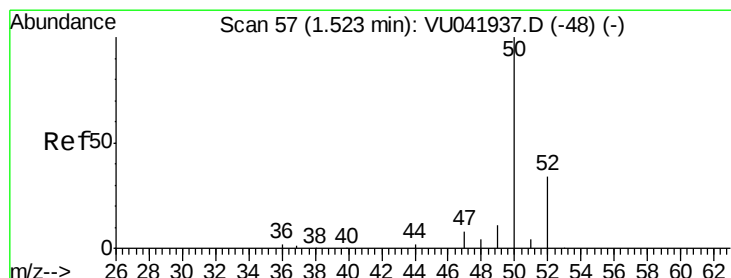
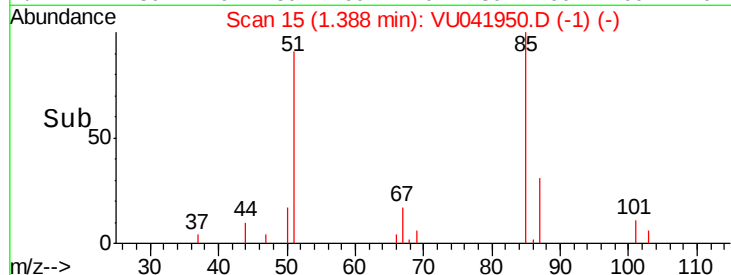
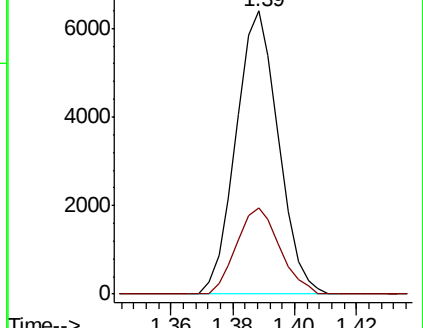
85 100

87 30.9 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU041937.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU041937.D (-7) (-)



#3

Chloromethane

Concen: 0.078 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041950.D

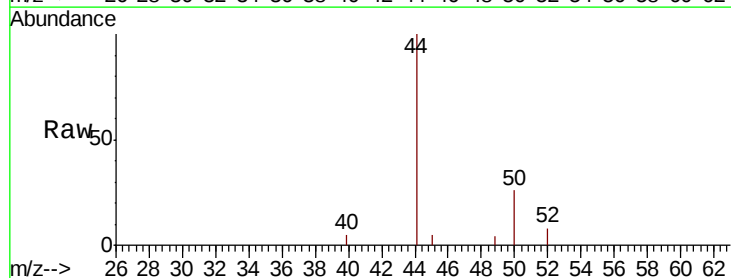
Acq: 12 Jan 2021 03:23

Tgt Ion: 50 Resp: 873

Ion Ratio Lower Upper

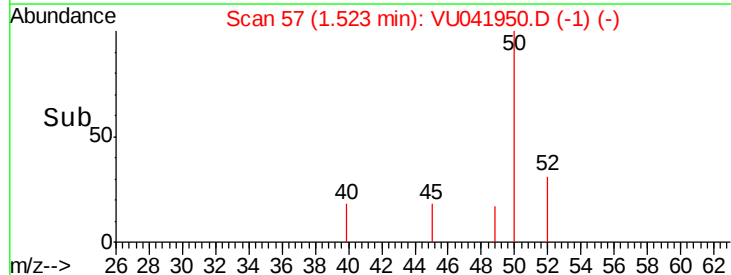
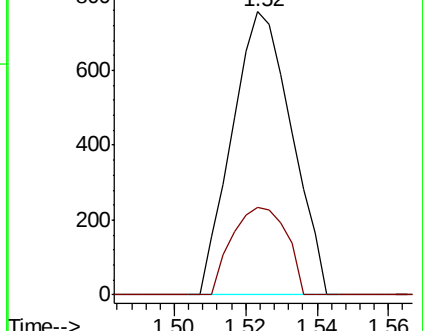
50 100

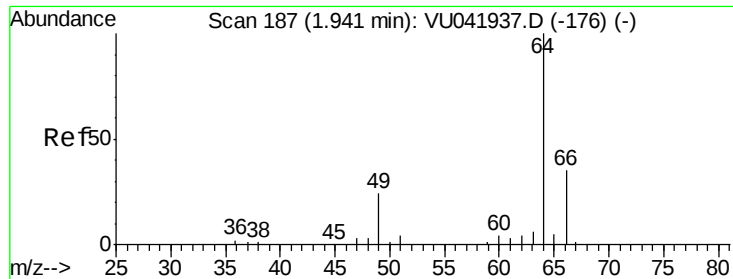
52 31.0 21.4 39.8



Abundance Ion 50.05 (49.75 to 50.75): VU041937.D (-48) (-)

Ion 52.05 (51.75 to 52.75): VU041937.D (-48) (-)





#8

Chloroethane

Concen: 0.044 ug/L

RT: 1.94 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

Instrument :

MSVOA_U

ClientSampleId :

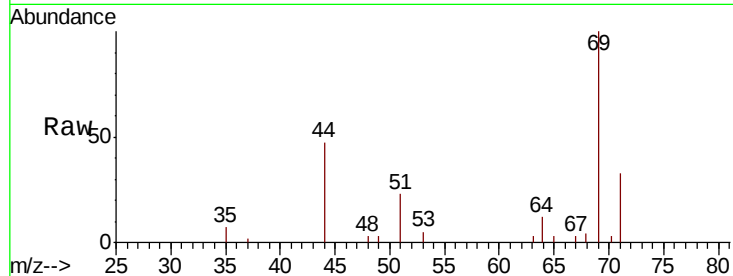
BFXK7

Tot Ion: 64 Resp: 327

Ion Ratio Lower Upper

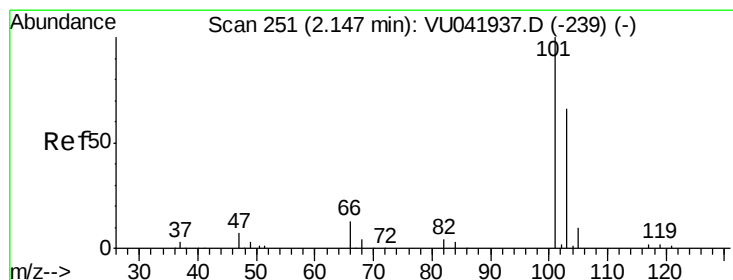
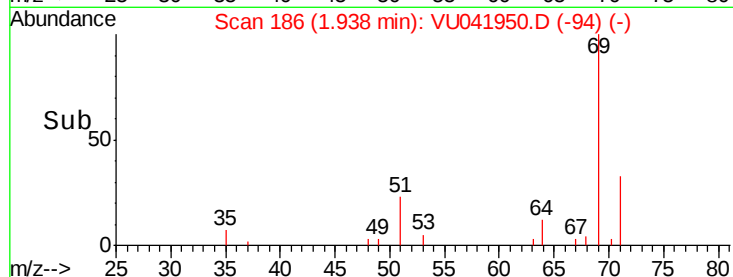
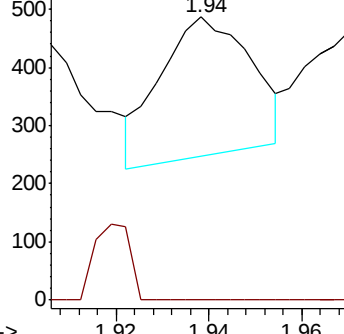
64 100

66 0.0 22.1 41.1#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 0.085 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU041950.D

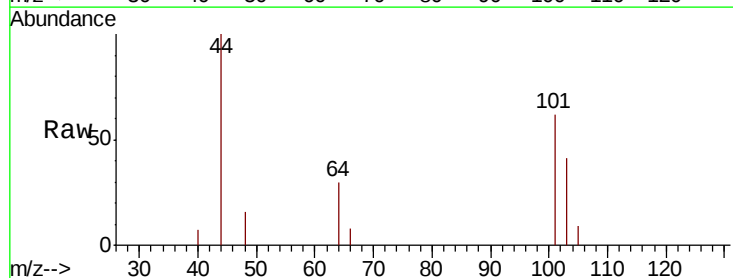
Acq: 12 Jan 2021 03:23

Tgt Ion:101 Resp: 1345

Ion Ratio Lower Upper

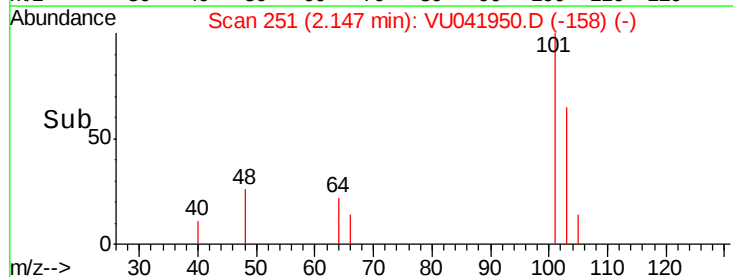
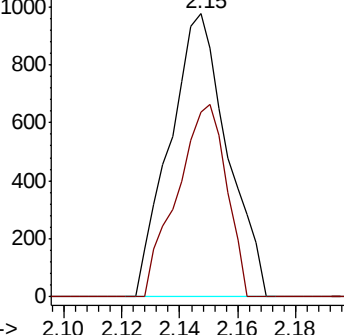
101 100

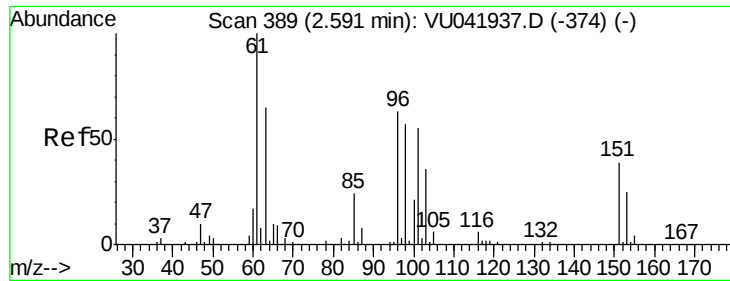
103 58.2 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.077 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

Instrument :

MSVOA_U

ClientSampleId :

BFXK7

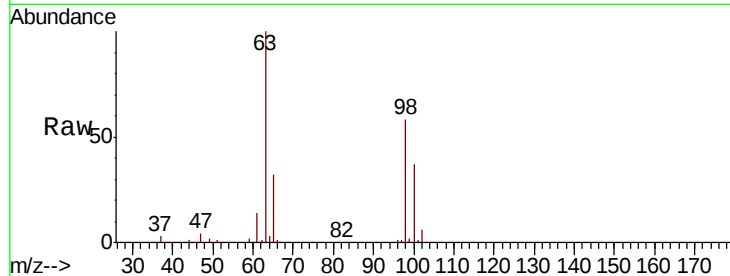
Tot Ion:101 Resp: 659

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

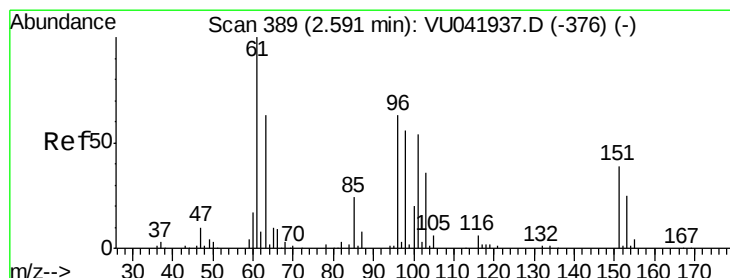
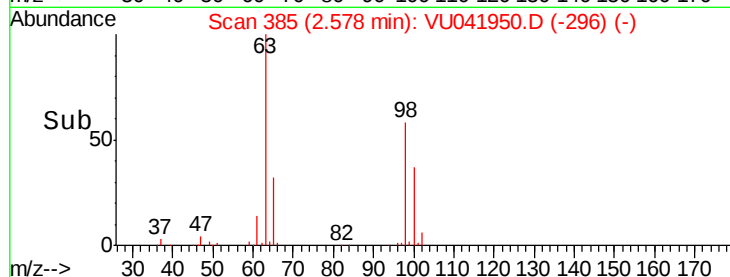
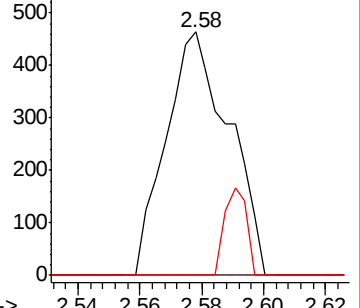
151 12.6 58.2 87.2#



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: 0.200 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

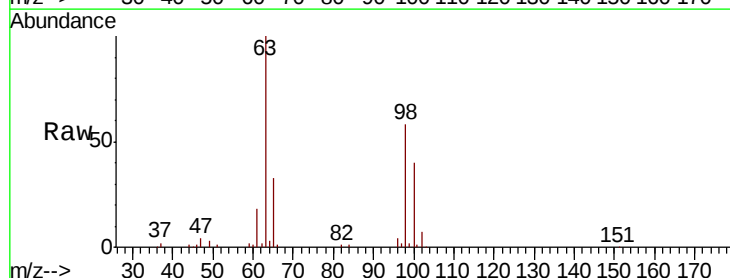
Tgt Ion: 96 Resp: 1667

Ion Ratio Lower Upper

96 100

61 477.3 123.5 229.4#

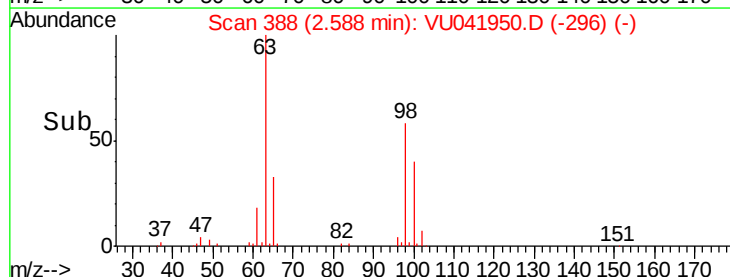
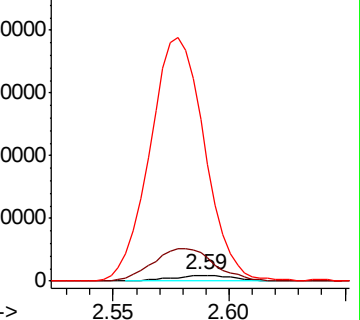
63 2722.2 93.5 173.7#

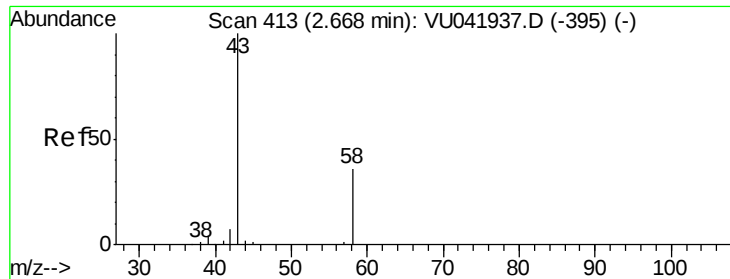


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.248 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.01 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

Instrument :

MSVOA_U

ClientSampleId :

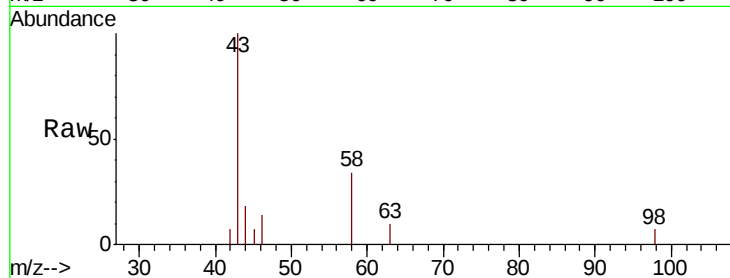
BFXK7

Tot Ion: 43 Resp: 3658

Ion Ratio Lower Upper

43 100

58 39.0 0.0 23.6#



Abundance Ion 43.05 (42.75 to 43.75): VU041937.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU041937.D (-395) (-)

2.66

1500

1000

500

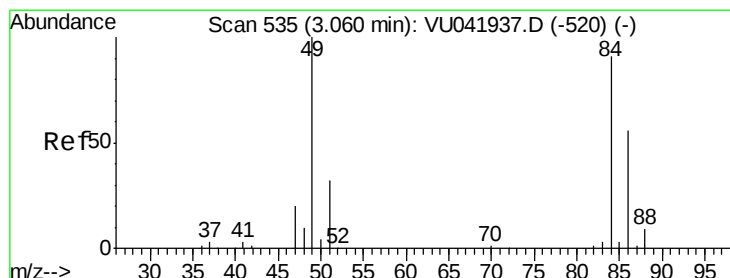
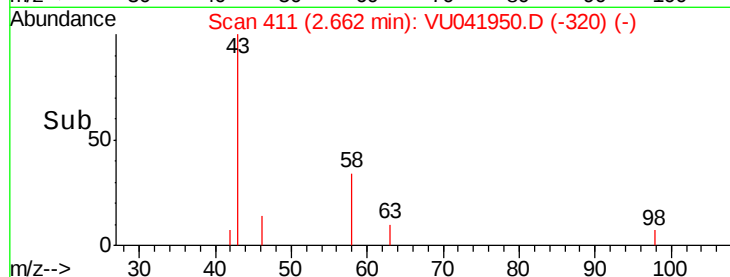
0

Time-->

2.60

2.65

2.70



#16

Methylene chloride

Concen: 0.197 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

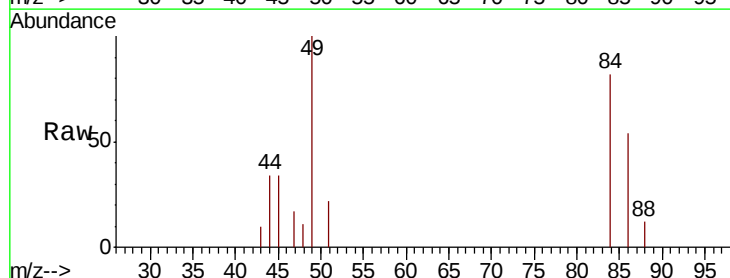
Tgt Ion: 84 Resp: 2070

Ion Ratio Lower Upper

84 100

86 65.9 43.5 80.7

49 121.8 81.8 151.8



Abundance Ion 84.05 (83.75 to 84.75): VU041937.D (-520) (-)

Ion 86.00 (85.70 to 86.70): VU041937.D (-520) (-)

Ion 49.10 (48.80 to 49.80): VU041937.D (-520) (-)

3.06

1500

1000

500

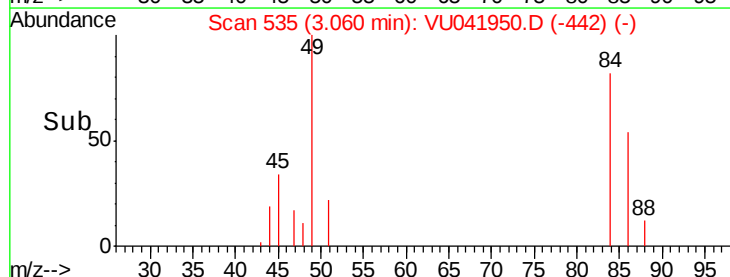
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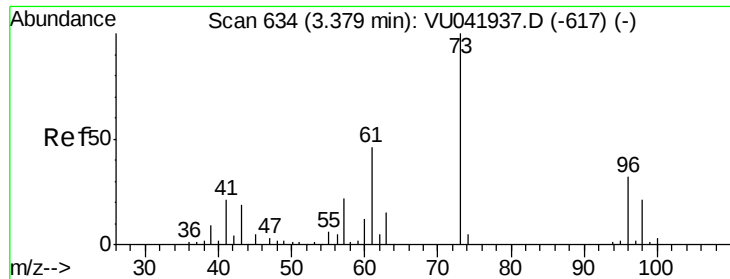
Time-->

3.00

3.05

3.10

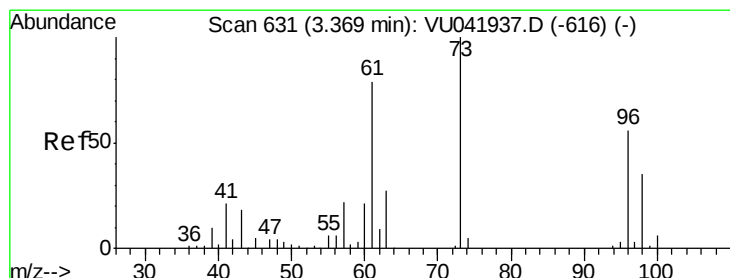
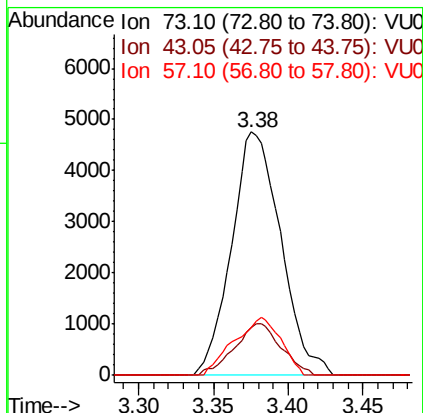
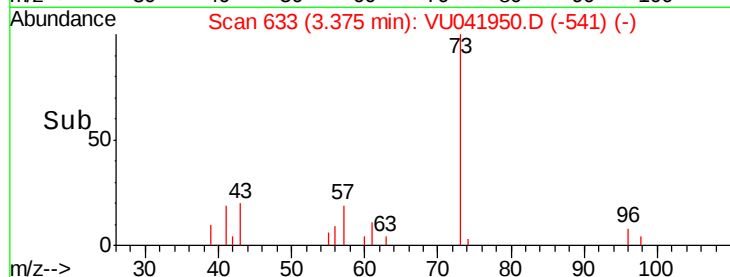
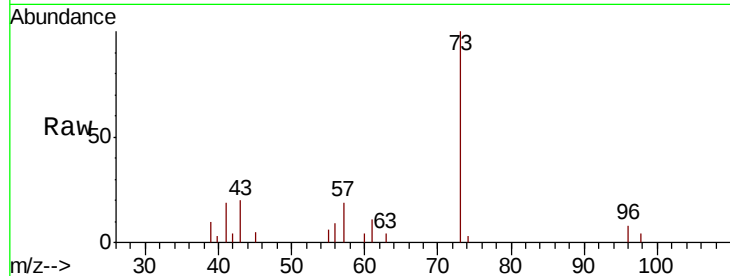




#17
Methvl tert-butvl Ether
Concen: 0.545 ug/L
RT: 3.38 min Scan# 633
Delta R.T. -0.00 min
Lab File: VU041950.D
Acq: 12 Jan 2021 03:23

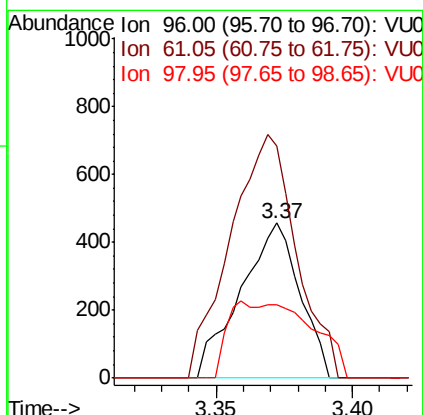
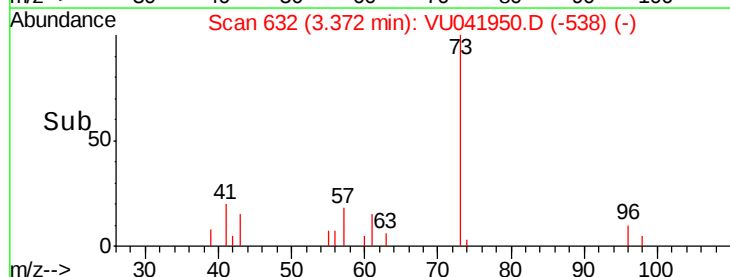
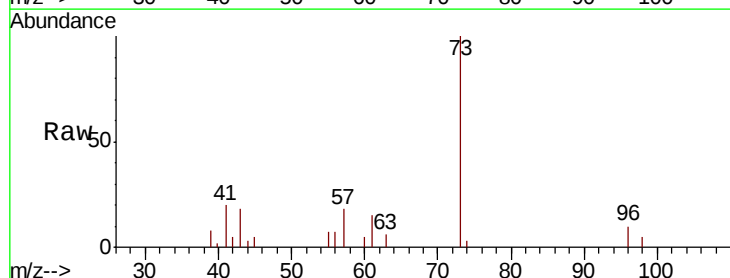
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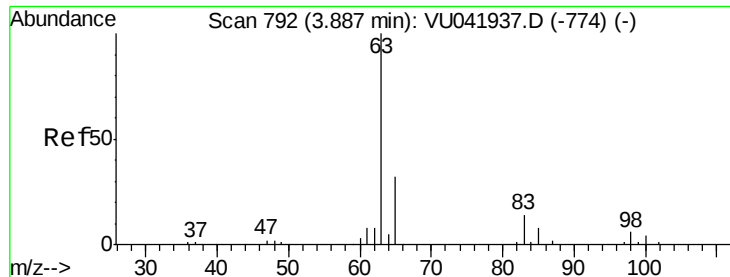
Tot Ion: 73 Resp: 10924
Ion Ratio Lower Upper
73 100
43 20.1 15.8 23.8
57 22.6 18.3 27.5



#18
trans-1,2-Dichloroethene
Concen: 0.085 ug/L
RT: 3.37 min Scan# 632
Delta R.T. 0.00 min
Lab File: VU041950.D
Acq: 12 Jan 2021 03:23

Tgt Ion: 96 Resp: 689
Ion Ratio Lower Upper
96 100
61 150.2 100.7 187.1
98 47.4 43.0 80.0

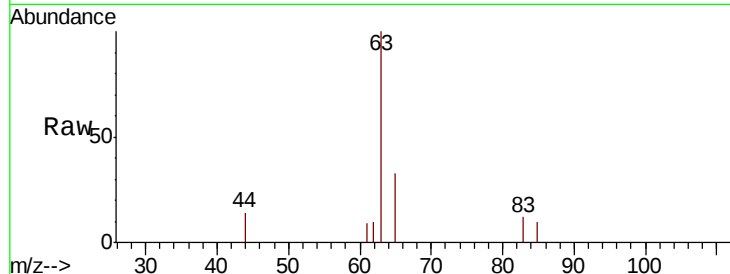




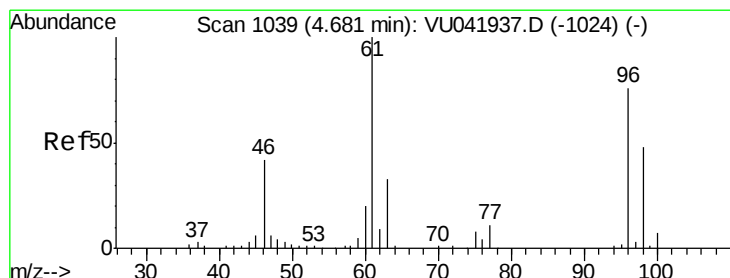
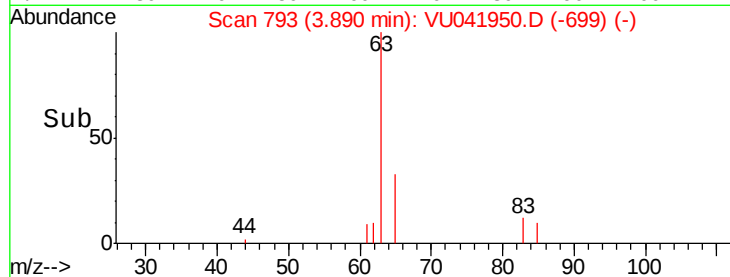
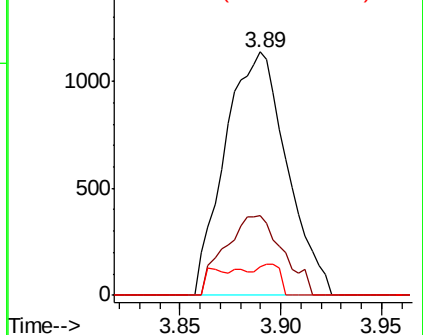
#19
 1,1-Dichloroethane
 Concen: 0.160 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU041950.D
 Acq: 12 Jan 2021 03:23

Instrument :
 MSVOA_U
 ClientSampled :
 BFXK7

Tot Ion: 63 Resp: 2432
 Ion Ratio Lower Upper
 63 100
 65 32.5 22.3 41.5
 83 11.5 9.0 16.8

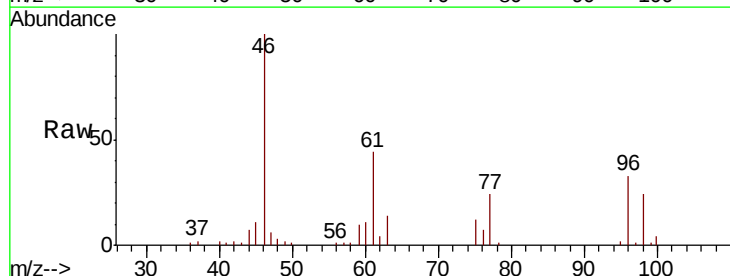


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

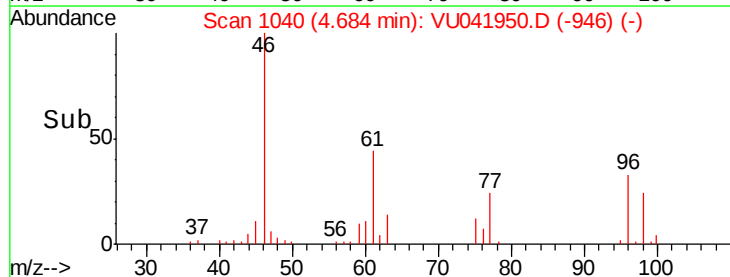
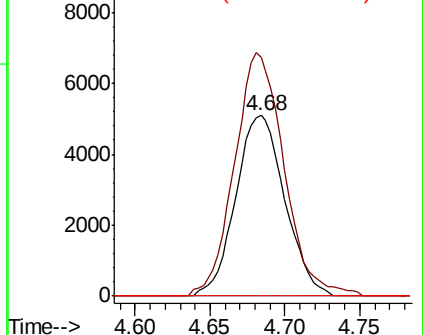


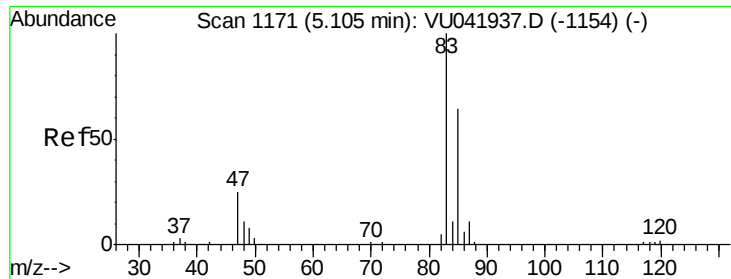
#22
 cis-1,2-Dichloroethene
 Concen: 1.343 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VU041950.D
 Acq: 12 Jan 2021 03:23

Tgt Ion: 96 Resp: 11628
 Ion Ratio Lower Upper
 96 100
 61 131.7 90.3 167.7
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

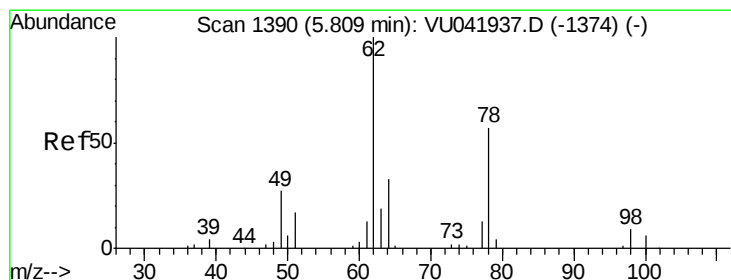
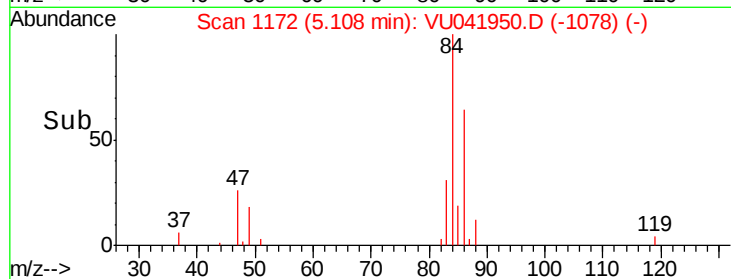
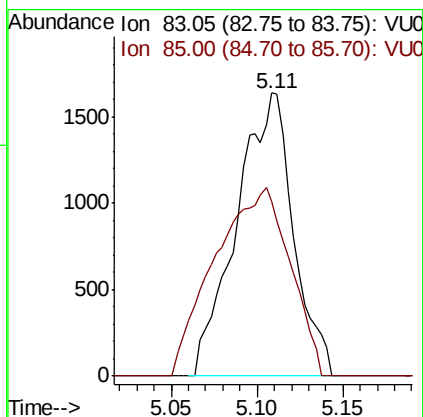
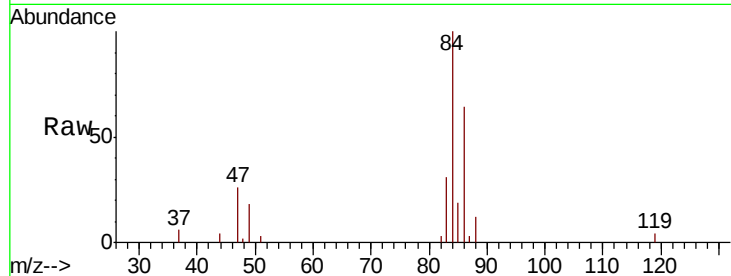




#25
Chloroform
Concen: 0.237 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU041950.D
Acq: 12 Jan 2021 03:23

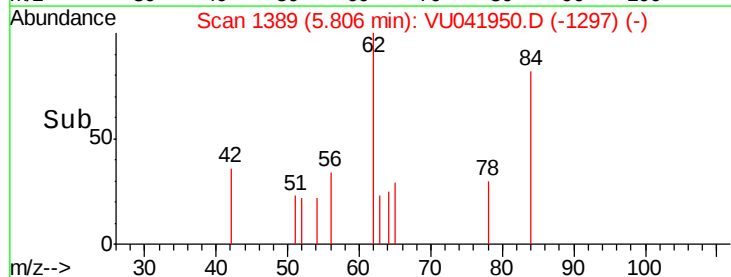
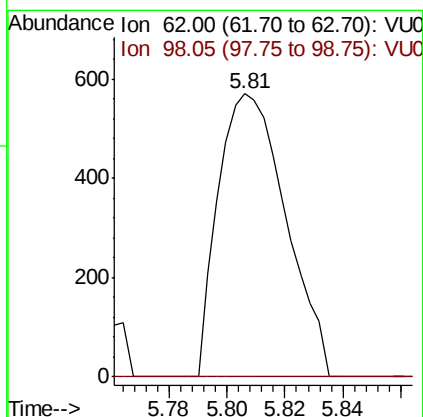
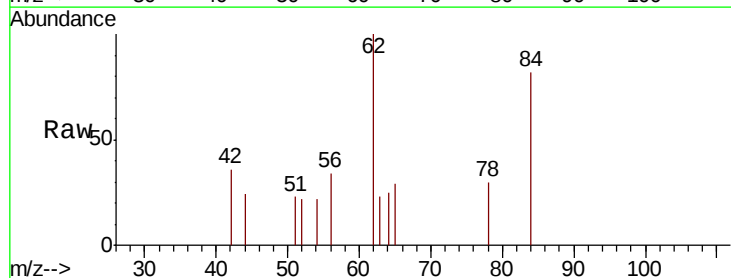
Instrument :
MSVOA_U
ClientSampleId :
BFXK7

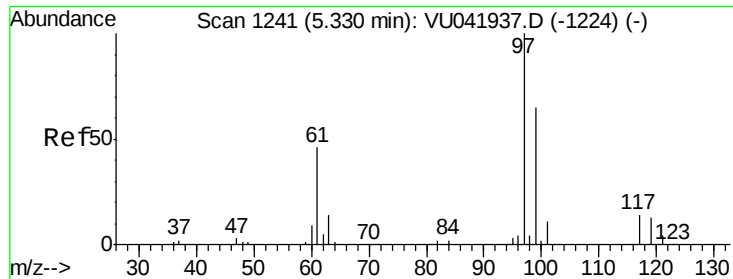
Tot Ion: 83 Resp: 3759
Ion Ratio Lower Upper
83 100
85 61.7 45.1 83.9



#27
1,2-Dichloroethane
Concen: 0.091 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VU041950.D
Acq: 12 Jan 2021 03:23

Tgt Ion: 62 Resp: 923
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.8#

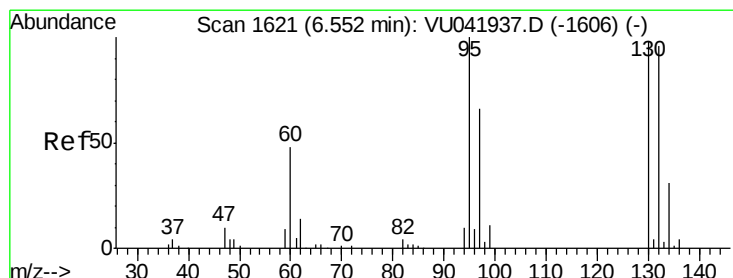
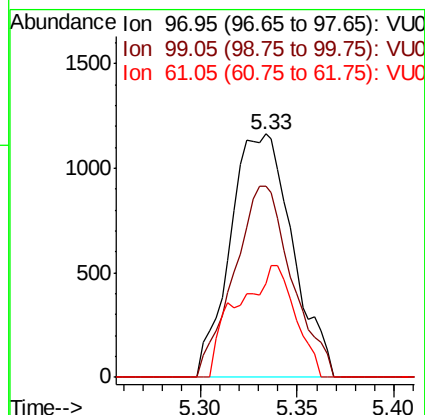
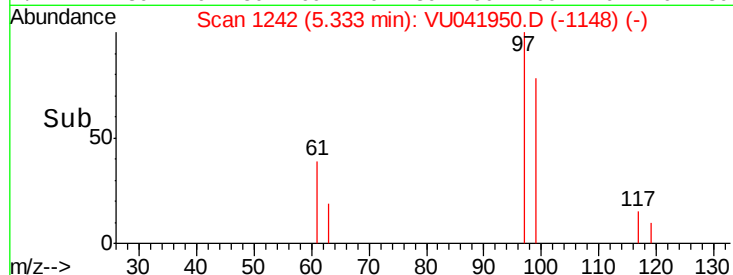
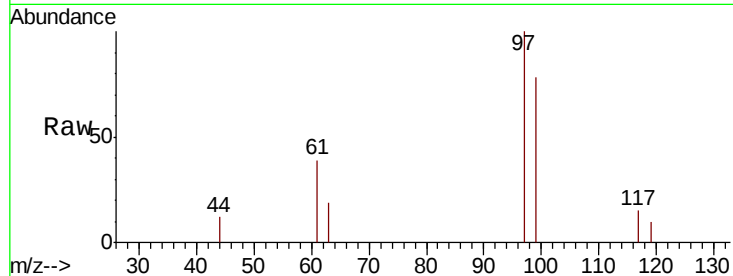




#29
1,1,1-Trichloroethane
Concen: 0.181 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VU041950.D
Acq: 12 Jan 2021 03:23

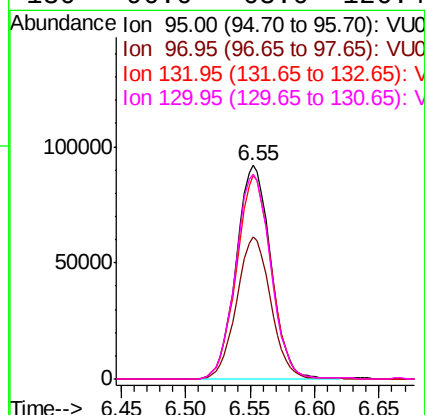
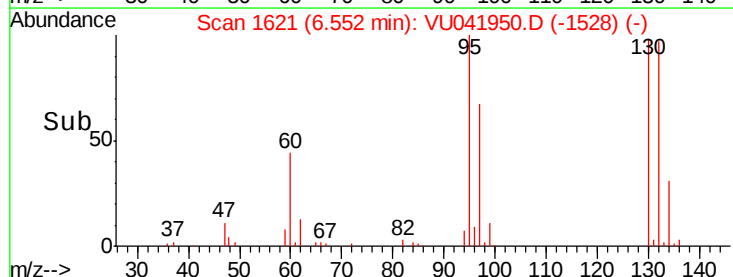
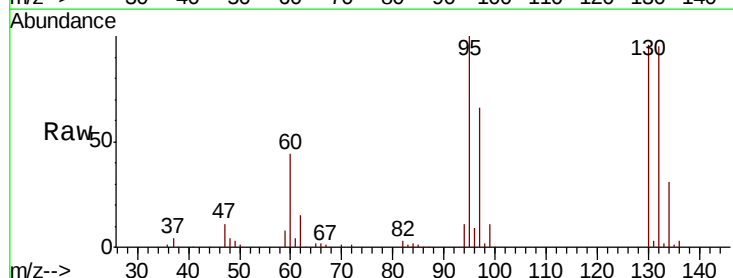
Instrument :
MSVOA_U
ClientSampleId :
BFXK7

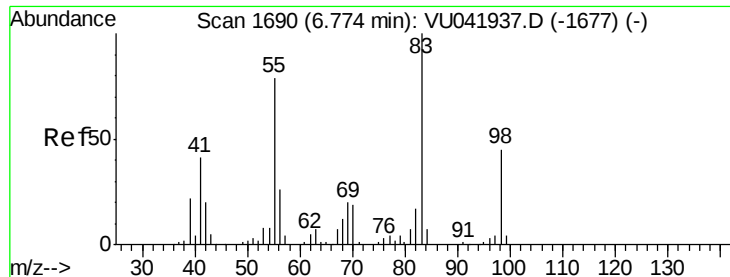
Tot Ion: 97 Resp: 2597
Ion Ratio Lower Upper
97 100
99 73.2 51.4 77.2
61 43.2 35.3 52.9



#34
Trichloroethene
Concen: 18.590 ug/L
RT: 6.55 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VU041950.D
Acq: 12 Jan 2021 03:23

Tgt Ion: 95 Resp: 172538
Ion Ratio Lower Upper
95 100
97 66.3 45.2 84.0
132 95.5 68.7 127.5
130 96.0 68.0 126.4





#35

Methylcyclohexane

Concen: 0.882 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

Instrument :

MSVOA_U

ClientSampleId :

BFXK7

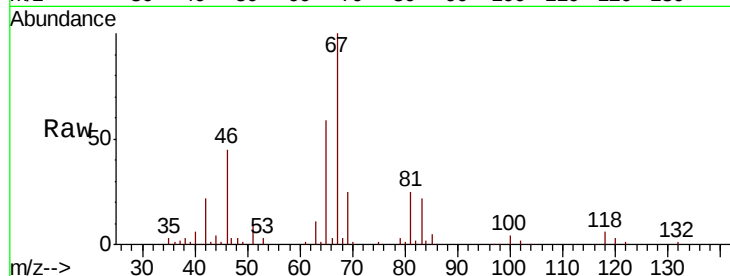
Tot Ion: 83 Resp: 12035

Ion Ratio Lower Upper

83 100

55 0.0 64.3 96.5#

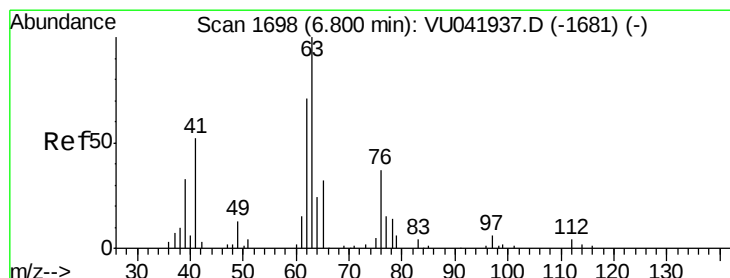
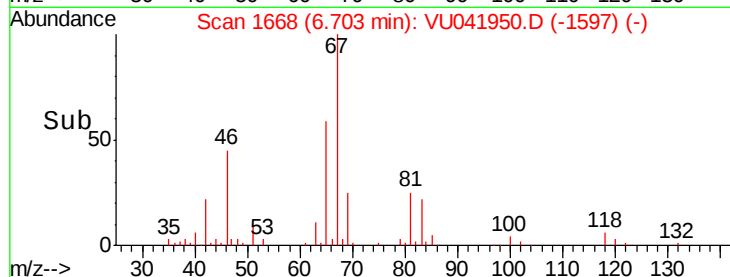
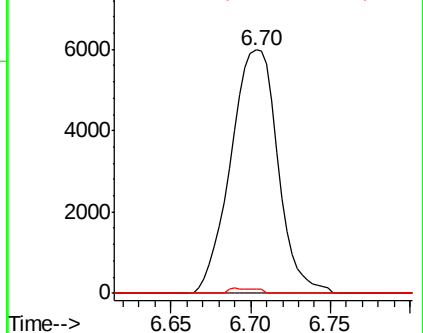
98 1.3 36.6 54.8#



Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0



#37

1,2-Dichloropropane

Concen: 0.617 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.10 min

Lab File: VU041950.D

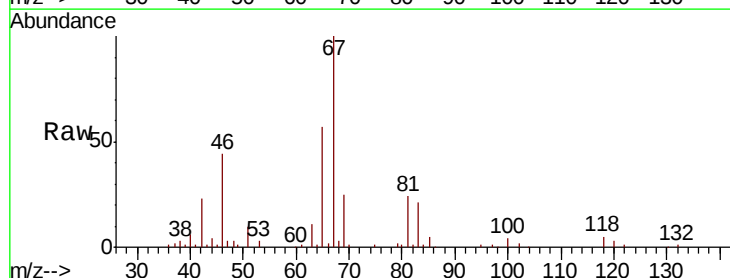
Acq: 12 Jan 2021 03:23

Tgt Ion: 63 Resp: 5441

Ion Ratio Lower Upper

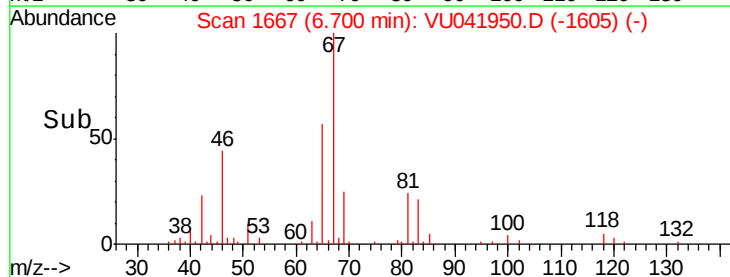
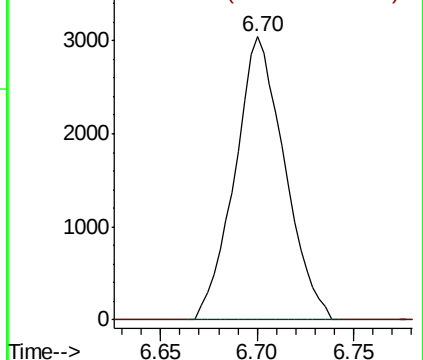
63 100

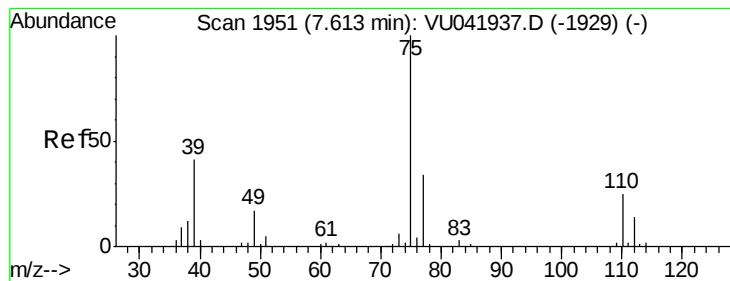
112 0.0 3.3 4.9#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V



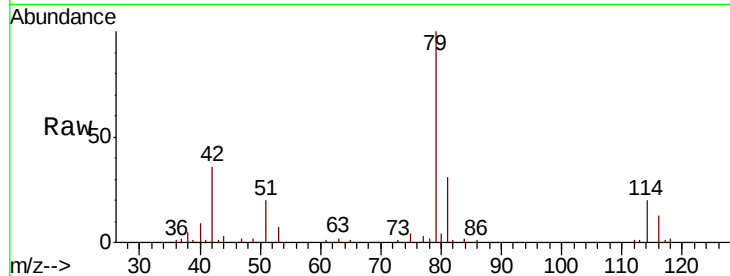


#39

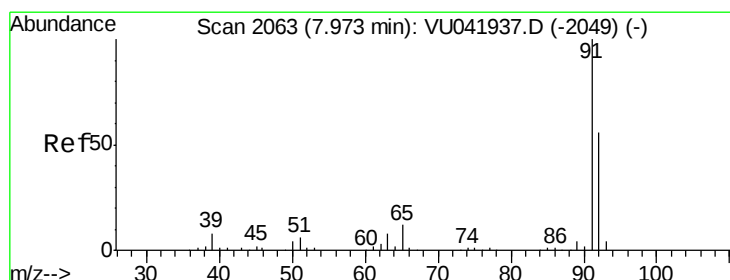
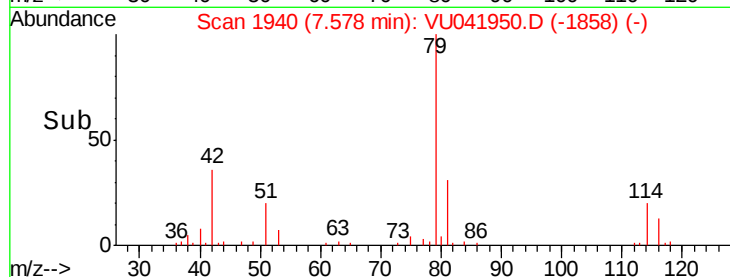
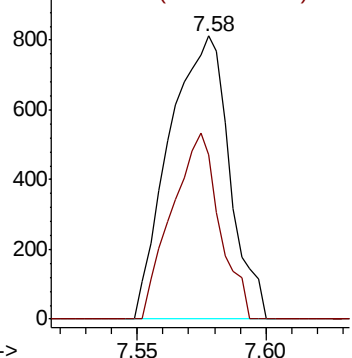
cis-1,3-Dichloropropene
 Concen: 0.102 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU041950.D
 Acq: 12 Jan 2021 03:23

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXK7

Tot Ion: 75 Resp: 1326
 Ion Ratio Lower Upper
 75 100
 77 58.0 21.5 39.9#



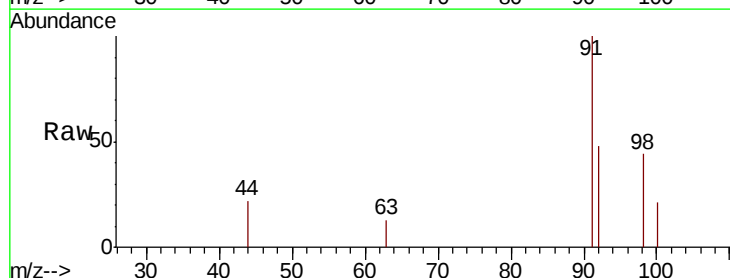
Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 77.05 (76.75 to 77.75): VU0



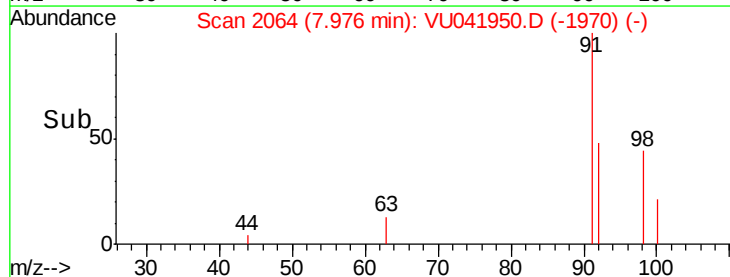
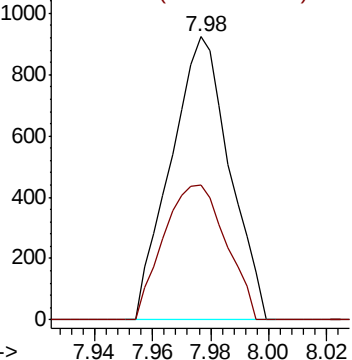
#42

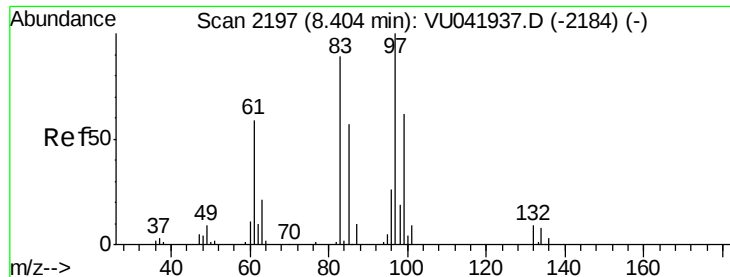
Toluene
 Concen: 0.036 ug/L
 RT: 7.98 min Scan# 2064
 Delta R.T. 0.00 min
 Lab File: VU041950.D
 Acq: 12 Jan 2021 03:23

Tgt Ion: 91 Resp: 1299
 Ion Ratio Lower Upper
 91 100
 92 47.8 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU0
 Ion 92.15 (91.85 to 92.85): VU0





#45

1,1,2-Trichloroethane

Concen: 0.325 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.15 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

Instrument :

MSVOA_U

ClientSampleId :

BFXK7

Tot Ion: 97 Resp: 2196

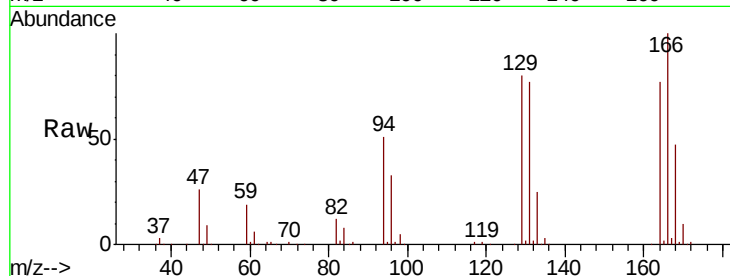
Ion Ratio Lower Upper

97 100

99 16.5 45.1 83.9#

83 240.0 63.3 117.7#

85 31.7 39.2 72.8#

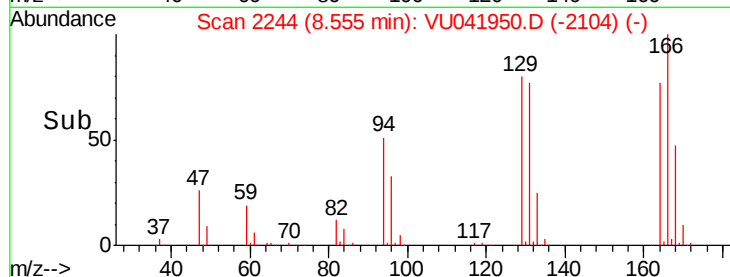
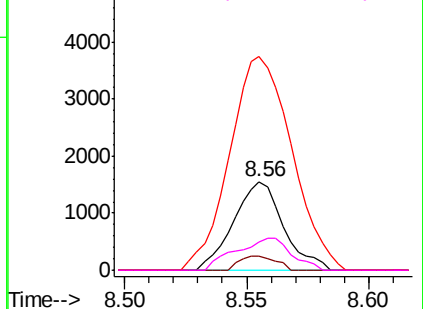


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 37.178 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

Tgt Ion:164 Resp: 240105

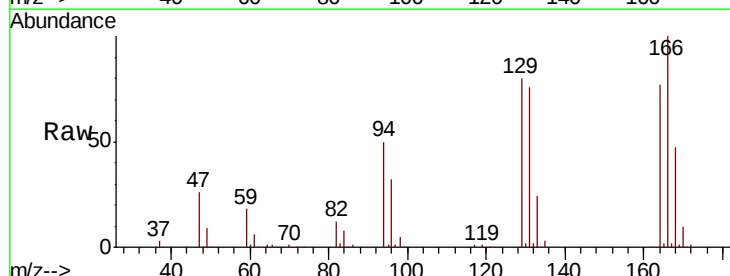
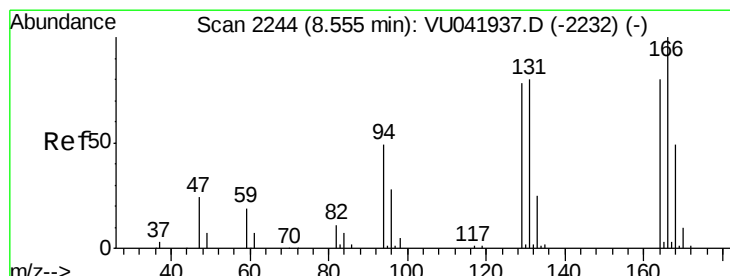
Ion Ratio Lower Upper

164 100

129 103.6 69.2 128.6

131 98.2 69.7 129.5

166 129.4 89.2 165.8

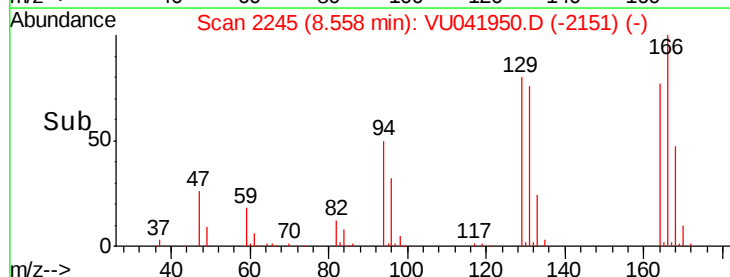
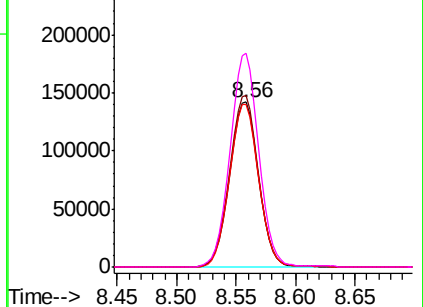


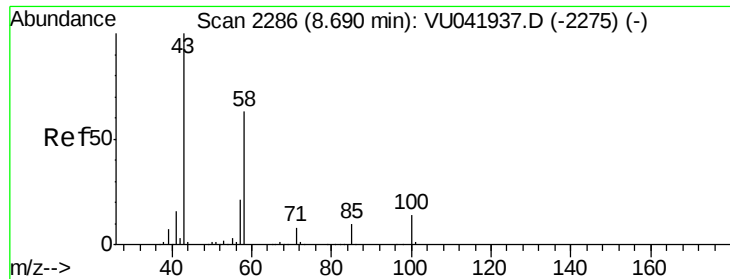
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

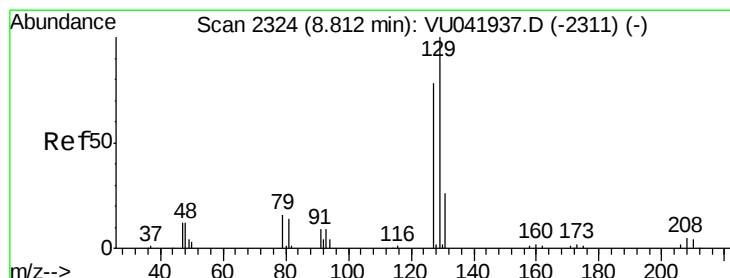
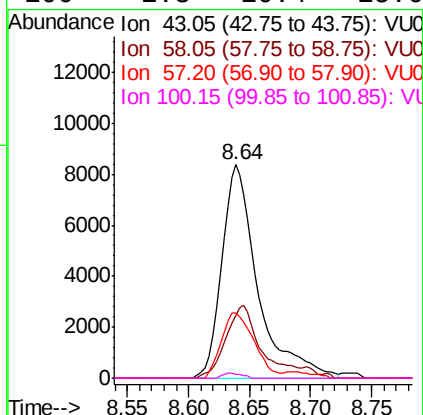
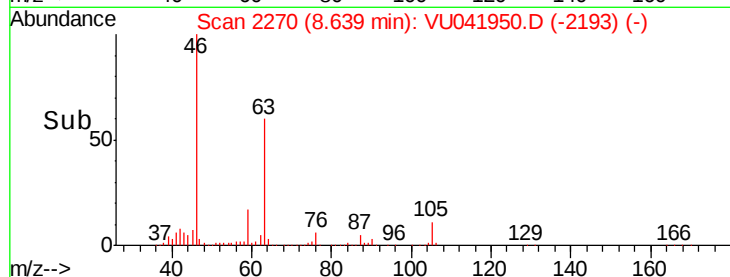
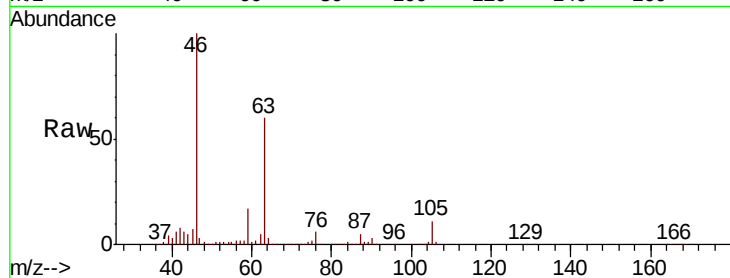




#48
2-Hexanone
Concen: 4.196 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041950.D
Acq: 12 Jan 2021 03:23

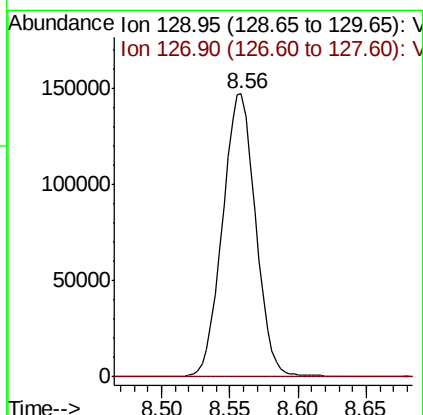
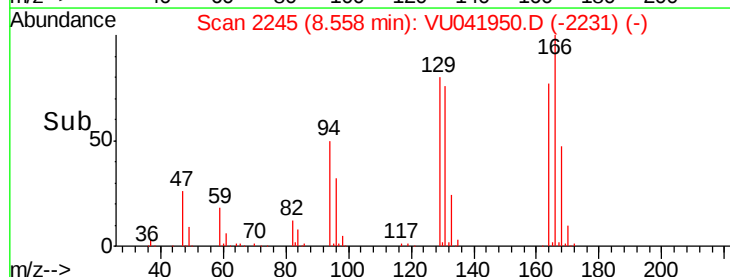
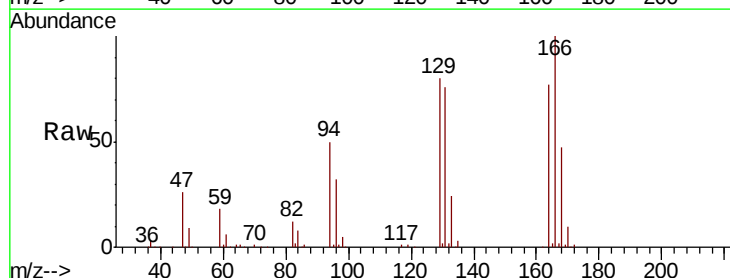
Instrument :
MSVOA_U
ClientSampleId :
BFXK7

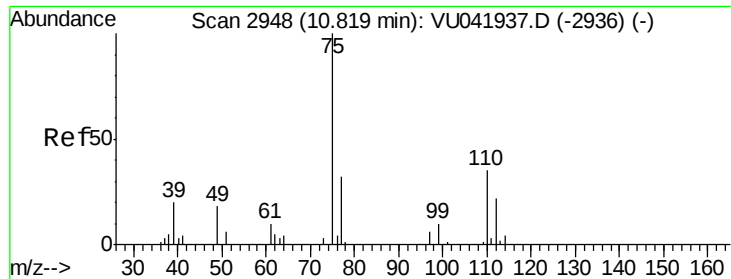
Tot Ion: 43 Resp: 17313
Ion Ratio Lower Upper
43 100
58 33.0 47.6 71.4#
57 28.1 17.1 25.7#
100 1.3 10.4 15.6#



#49
Dibromochloromethane
Concen: 29.911 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.25 min
Lab File: VU041950.D
Acq: 12 Jan 2021 03:23

Tgt Ion: 129 Resp: 246077
Ion Ratio Lower Upper
129 100
127 0.0 54.9 101.9#

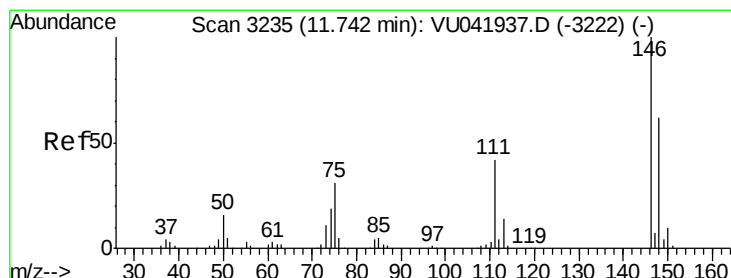
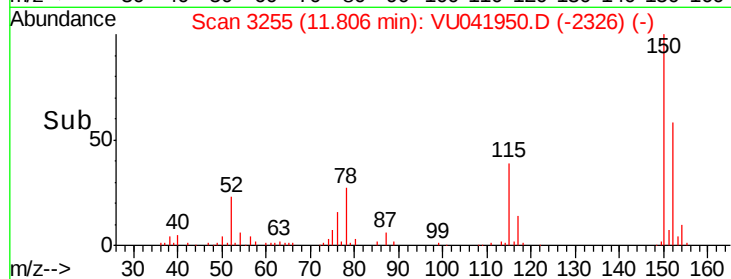
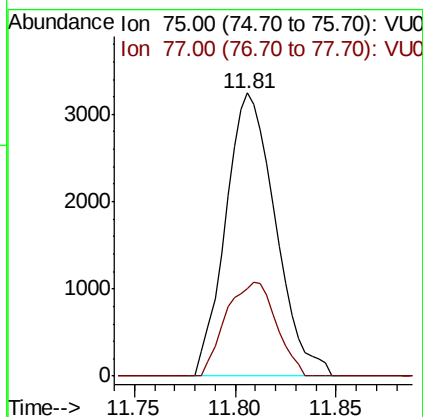
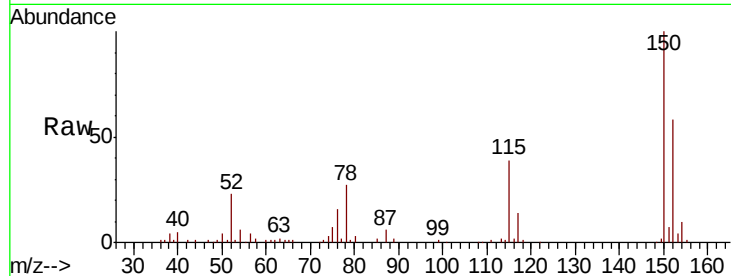




#59
 1,2,3-Trichloropropane
 Concen: 0.869 ug/L
 RT: 11.81 min Scan# 3255
 Delta R.T. 0.99 min
 Lab File: VU041950.D
 Acq: 12 Jan 2021 03:23

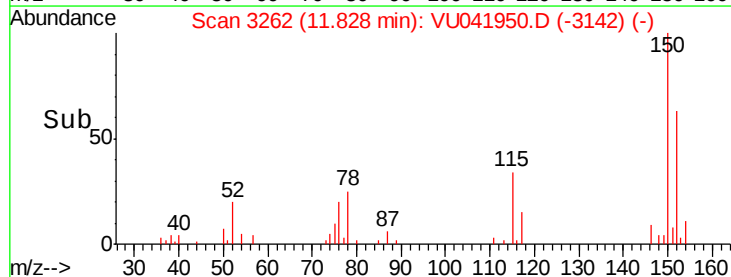
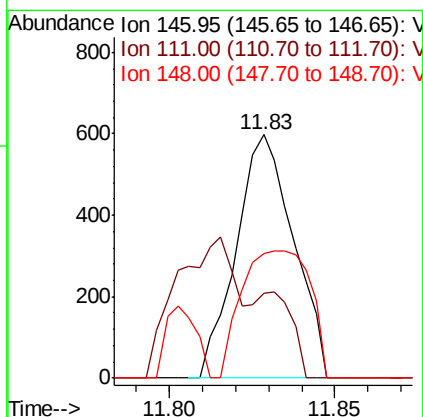
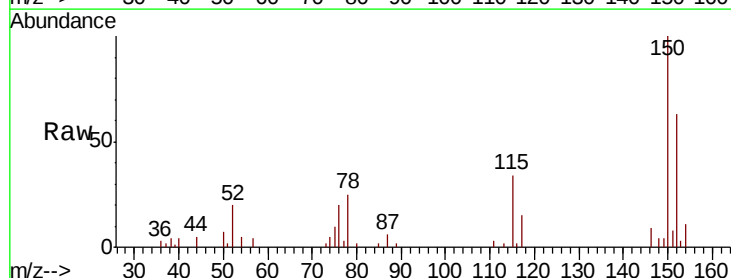
Instrument :
 MSVOA_U
 ClientSampleId :
 BFXK7

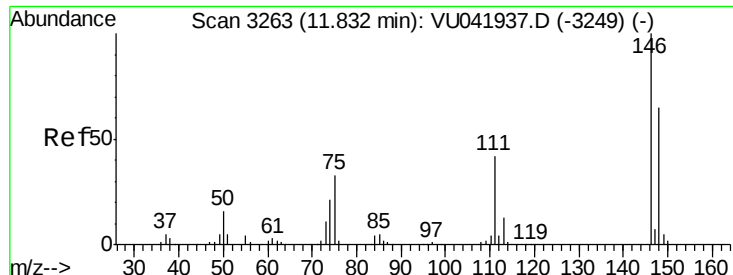
Tot Ion: 75 Resp: 5594
 Ion Ratio Lower Upper
 75 100
 77 33.5 27.0 40.4



#62
 1,3-Dichlorobenzene
 Concen: 0.055 ug/L
 RT: 11.83 min Scan# 3262
 Delta R.T. 0.09 min
 Lab File: VU041950.D
 Acq: 12 Jan 2021 03:23

Tgt Ion: 146 Resp: 719
 Ion Ratio Lower Upper
 146 100
 111 34.6 28.7 53.3
 148 51.3 43.2 80.2





#63

1,4-Dichlorobenzene

Concen: 0.054 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. -0.00 min

Lab File: VU041950.D

Acq: 12 Jan 2021 03:23

Instrument :

MSVOA_U

ClientSampleId :

BFXK7

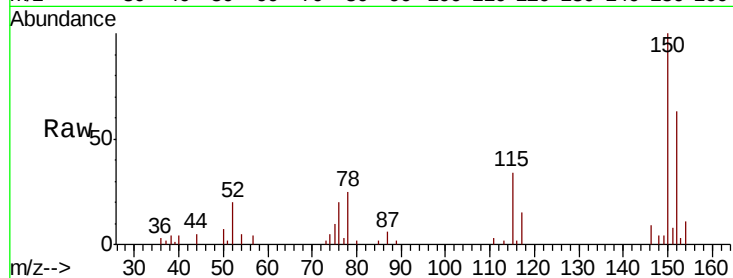
Tot Ion:146 Resp: 719

Ion Ratio Lower Upper

146 100

111 34.6 28.4 52.8

148 51.3 44.0 81.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

