

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111720\
 Data File : VU041303.D
 Acq On : 18 Nov 2020 02:12
 Operator : SY/MD
 Sample : L4759-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4415

Quant Time: Nov 18 06:13:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR111620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 18 00:06:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	64876	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	66385	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	26652	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	22470	4.71	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.20%
7) Chloroethane-d5	1.92	69	20068	4.92	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.40%
11) 1,1-Dichloroethene-d2	2.58	63	33138	3.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.20%
20) 2-Butanone-d5	4.66	46	94551	48.05	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.10%
24) Chloroform-d	5.08	84	49423	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
26) 1,2-Dichloroethane-d4	5.72	65	31255	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.80%
32) Benzene-d6	5.74	84	84957	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
36) 1,2-Dichloropropane-d6	6.70	67	29560	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.91	98	71799	4.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.20%
43) trans-1,3-Dichloropropene-	8.19	79	11657	4.39	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	87.80%
46) 2-Hexanone-d5	8.64	63	65157	45.96	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.92%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	27032	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	26006	5.00	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.00%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	549	0.095 ug/L	91
5) Vinyl chloride	1.61	62	32036	5.688 ug/L	92
8) Chloroethane	1.95	64	386	0.103 ug/L #	43
12) 1,1-Dichloroethene	2.58	96	826	0.196 ug/L #	1
13) Acetone	2.67	43	1438	1.102 ug/L	81
17) Methyl tert-butyl Ether	3.38	73	132885	11.494 ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	79379	19.299 ug/L	98
19) 1,1-Dichloroethane	3.89	63	13243	1.440 ug/L	98
22) cis-1,2-Dichloroethene	4.69	96	268302	57.759 ug/L	95
25) Chloroform	5.10	83	524	0.053 ug/L #	63
33) Benzene	5.79	78	5947	0.331 ug/L	100
34) Trichloroethene	6.56	95	175412	36.077 ug/L	98
35) Methylcyclohexane	6.70	83	6555	1.015 ug/L #	13
37) 1,2-Dichloropropane	6.71	63	3610	0.687 ug/L #	86
39) cis-1,3-Dichloropropene	7.58	75	693	0.094 ug/L #	22
44) trans-1,3-Dichloropropene	8.19	75	460	0.066 ug/L #	17
47) Tetrachloroethene	8.56	164	3192	0.888 ug/L	85

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Response via : Initial Calibration

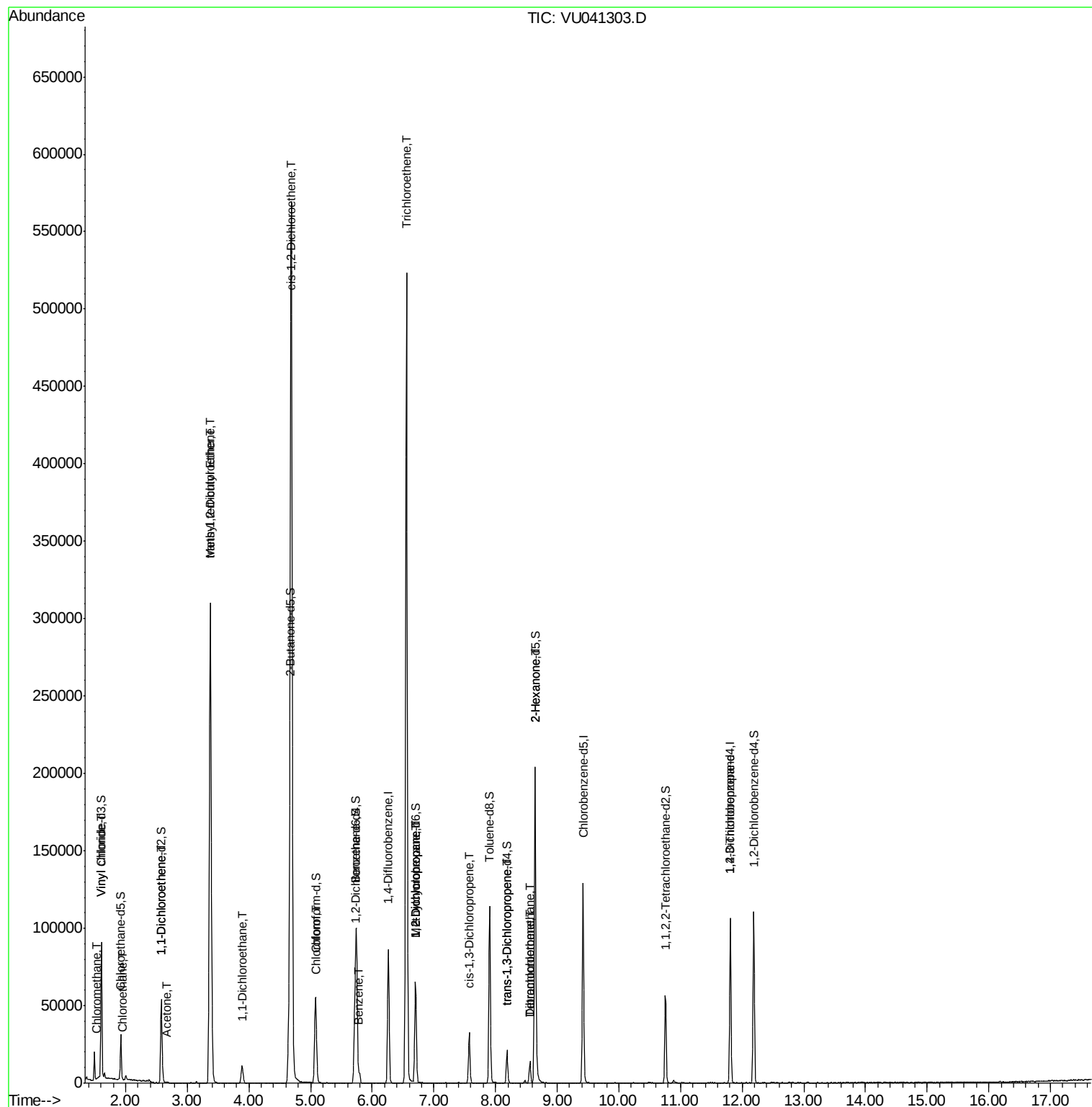
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.64	43	9478	2.918	ug/L #	68
49) Dibromochloromethane	8.56	129	2938	0.610	ug/L #	11
59) 1,2,3-Trichloropropane	11.81	75	3495	0.843	ug/L #	88

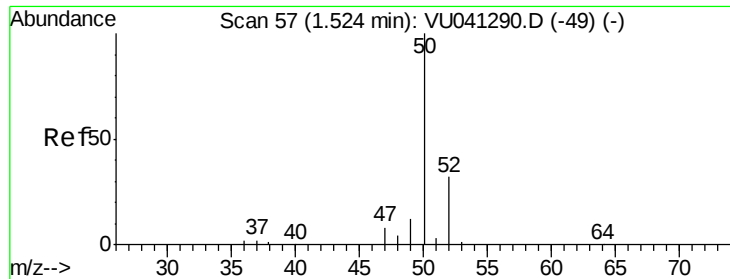
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.095 ug/L

RT: 1.53 min Scan# 59

Delta R.T. 0.01 min

Lab File: VU041303.D

Acq: 18 Nov 2020 02:12

Instrument :

MSVOA_U

ClientSampleId :

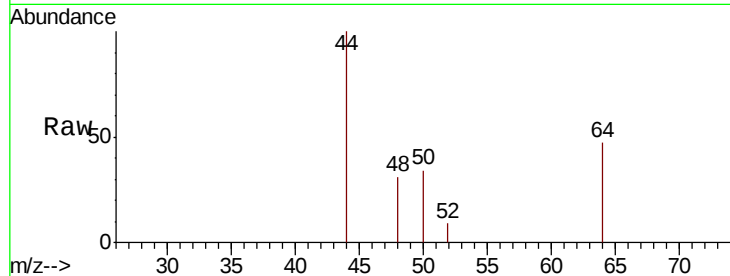
H4415

Tot Ion: 50 Resp: 549

Ion Ratio Lower Upper

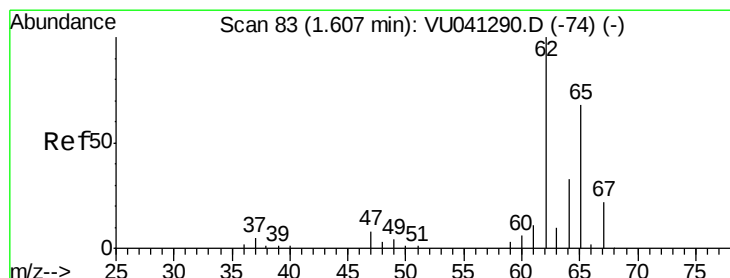
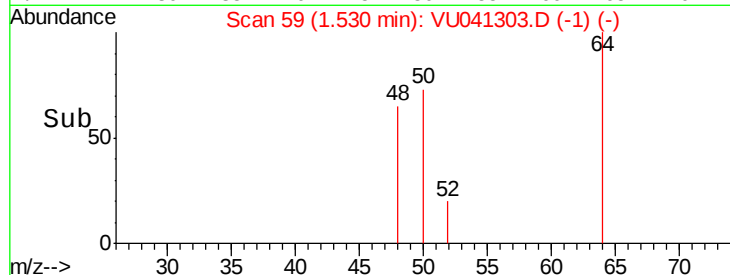
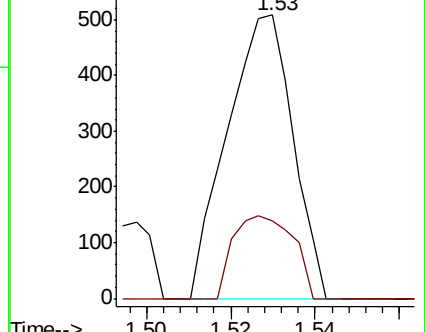
50 100

52 27.2 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 5.688 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041303.D

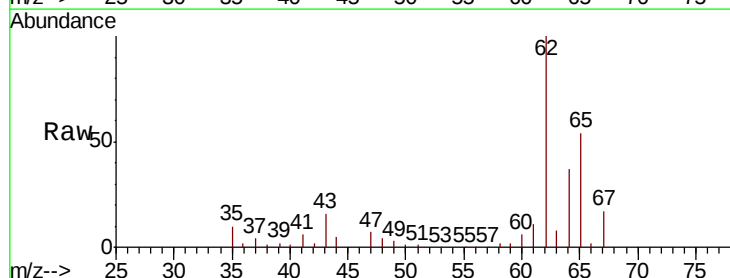
Acq: 18 Nov 2020 02:12

Tgt Ion: 62 Resp: 32036

Ion Ratio Lower Upper

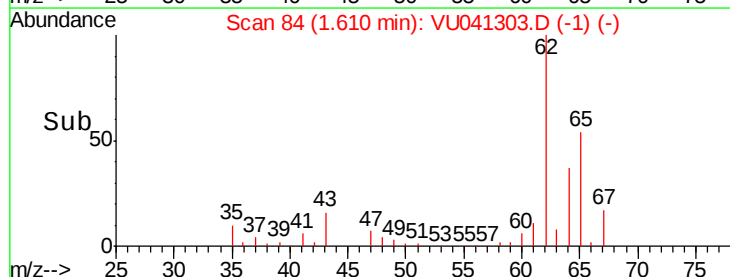
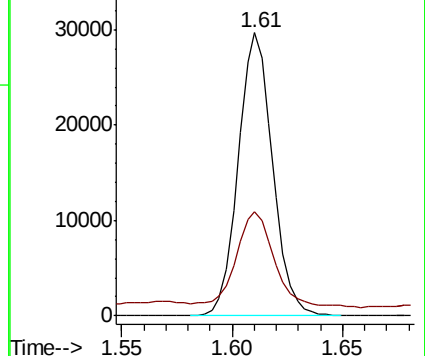
62 100

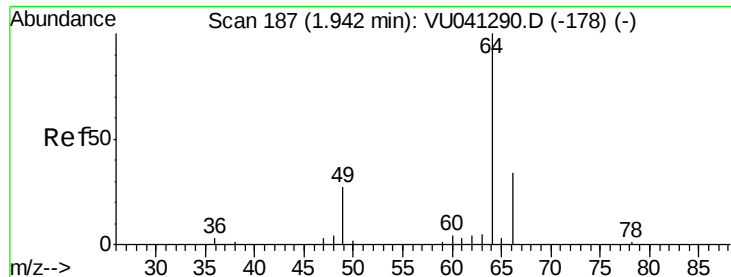
64 36.8 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

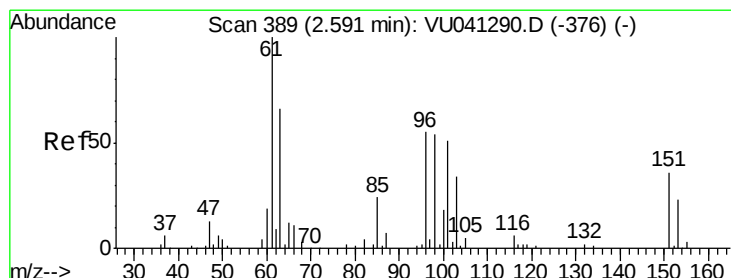
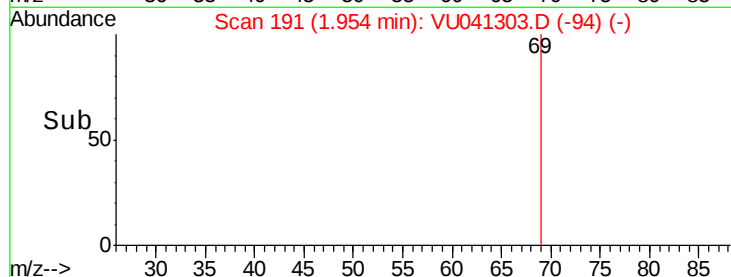
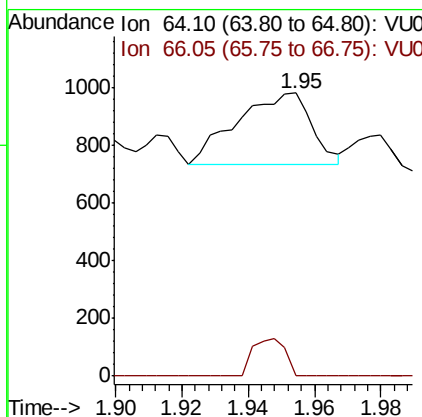
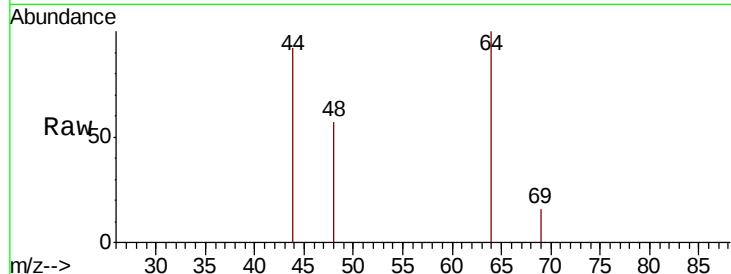




#8
 Chloroethane
 Concen: 0.103 ug/L
 RT: 1.95 min Scan# 191
 Delta R.T. 0.01 min
 Lab File: VU041303.D
 Acq: 18 Nov 2020 02:12

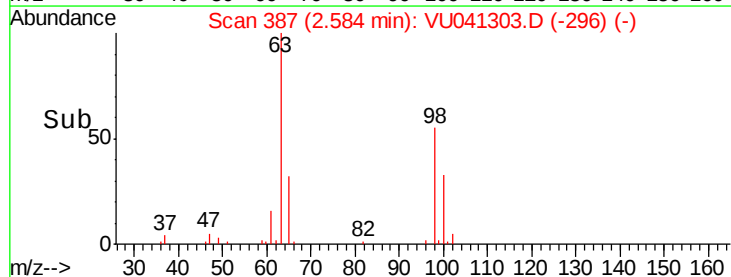
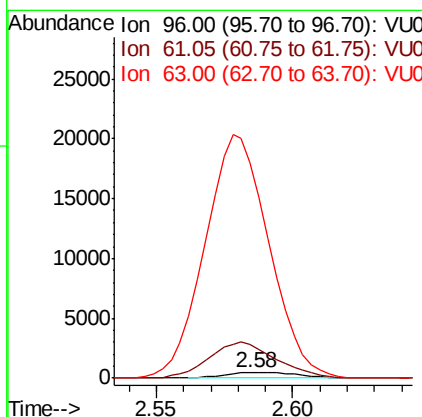
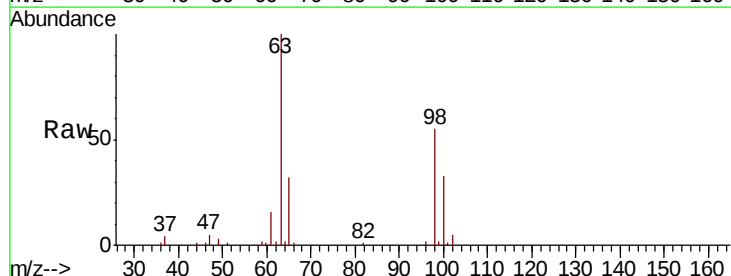
Instrument :
 MSVOA_U
 ClientSampled :
 H4415

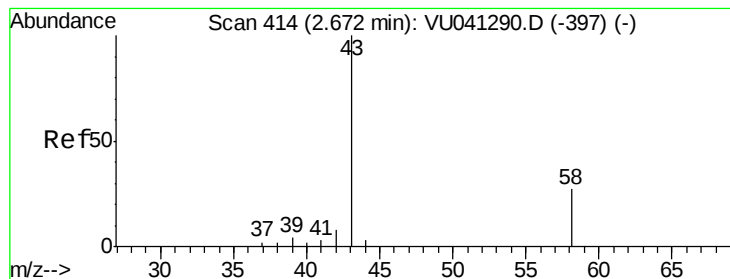
Tot Ion: 64 Resp: 386
 Ion Ratio Lower Upper
 64 100
 66 0.0 22.3 41.5#



#12
 1,1-Dichloroethene
 Concen: 0.196 ug/L
 RT: 2.58 min Scan# 387
 Delta R.T. -0.01 min
 Lab File: VU041303.D
 Acq: 18 Nov 2020 02:12

Tgt Ion: 96 Resp: 826
 Ion Ratio Lower Upper
 96 100
 61 644.0 134.3 249.5#
 63 4055.7 95.0 176.4#





#13

Acetone

Concen: 1.102 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU041303.D

Acq: 18 Nov 2020 02:12

Instrument :

MSVOA_U

ClientSampled :

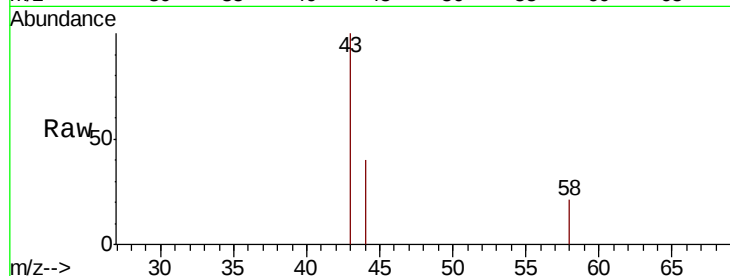
H4415

Tot Ion: 43 Resp: 1438

Ion Ratio Lower Upper

43 100

58 5.3 0.0 25.4

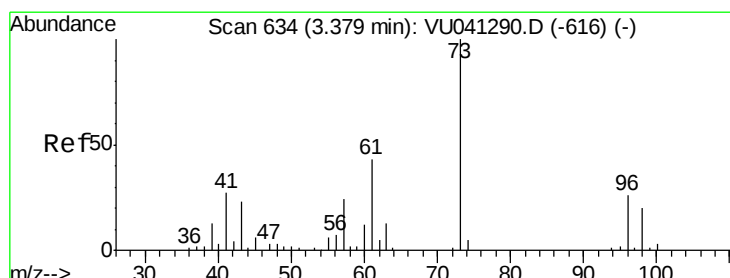
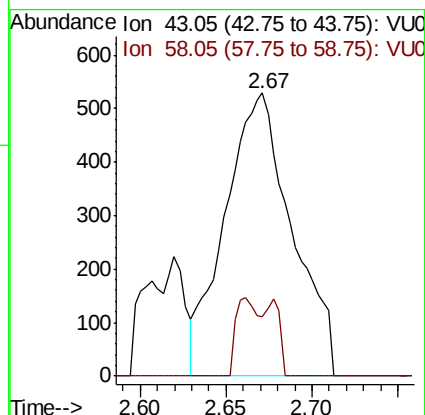
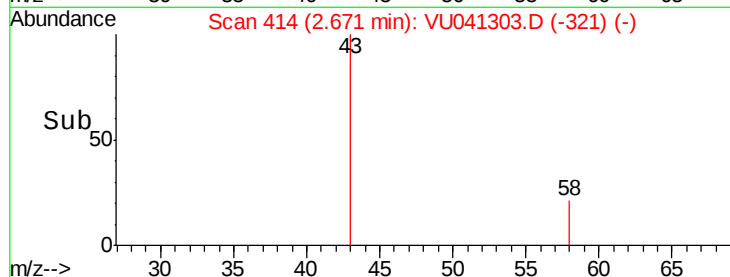


Abundance Ion 43.05 (42.75 to 43.75): VU041290.D (-397) (-)

Ion 58.05 (57.75 to 58.75): VU041290.D (-397) (-)

2.67

2.60 2.65 2.70



#17

Methyl tert-butyl Ether

Concen: 11.494 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU041303.D

Acq: 18 Nov 2020 02:12

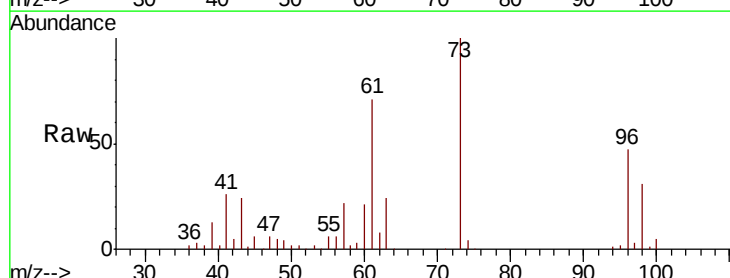
Tgt Ion: 73 Resp: 132885

Ion Ratio Lower Upper

73 100

43 23.6 18.5 27.7

57 23.1 18.4 27.6



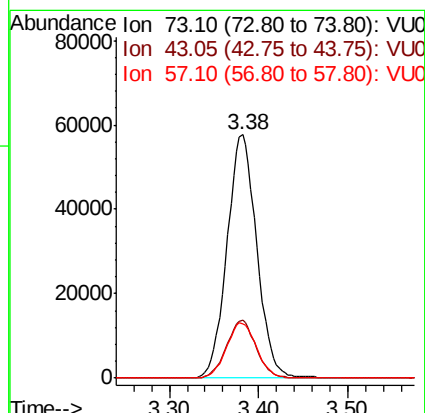
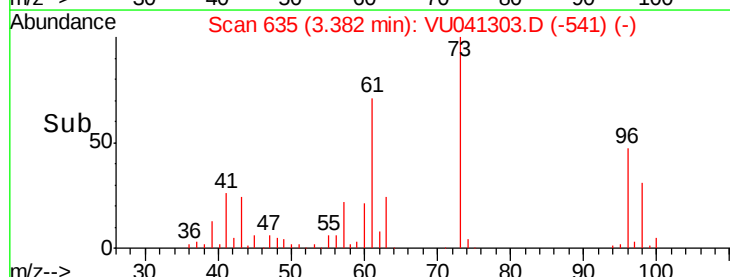
Abundance Ion 73.10 (72.80 to 73.80): VU041290.D (-616) (-)

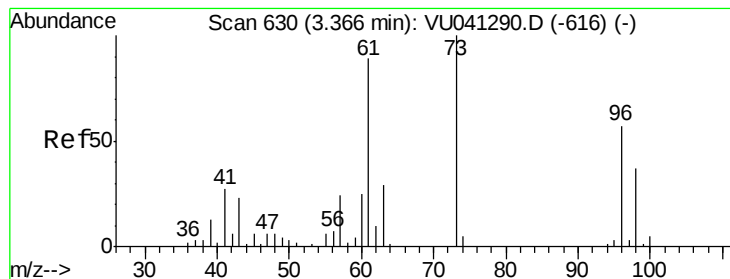
Ion 43.05 (42.75 to 43.75): VU041290.D (-616) (-)

Ion 57.10 (56.80 to 57.80): VU041290.D (-616) (-)

3.38

3.30 3.40 3.50





#18

trans-1,2-Dichloroethene

Concen: 19.299 ug/L

RT: 3.37 min Scan# 631

Delta R.T. 0.00 min

Lab File: VU041303.D

Acq: 18 Nov 2020 02:12

Instrument :

MSVOA_U

ClientSampleId :

H4415

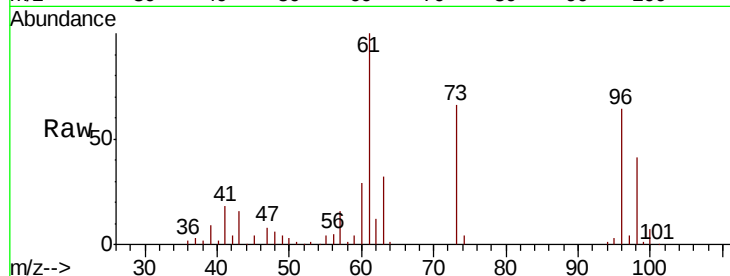
Tot Ion: 96 Resp: 79379

Ion Ratio Lower Upper

96 100

61 156.1 110.9 205.9

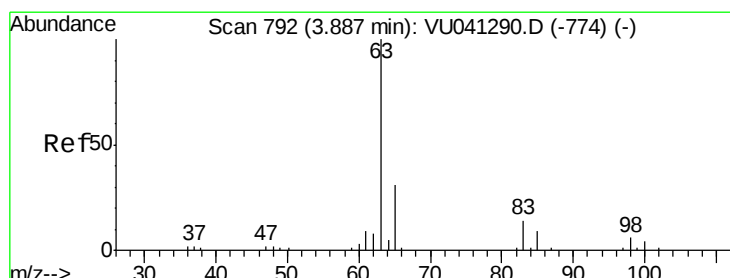
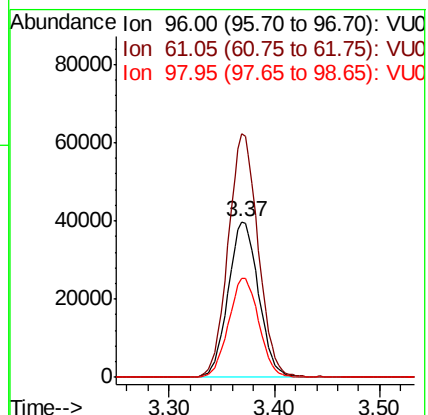
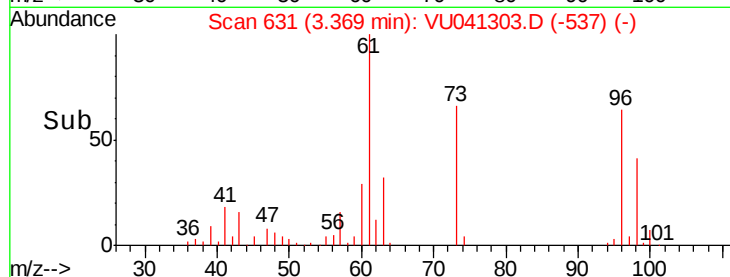
98 63.4 45.4 84.2



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0



#19

1,1-Dichloroethane

Concen: 1.440 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU041303.D

Acq: 18 Nov 2020 02:12

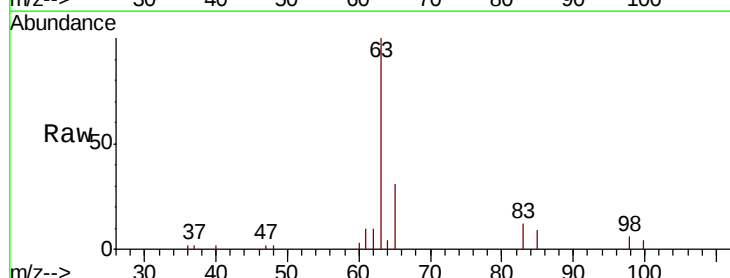
Tgt Ion: 63 Resp: 13243

Ion Ratio Lower Upper

63 100

65 31.2 21.3 39.6

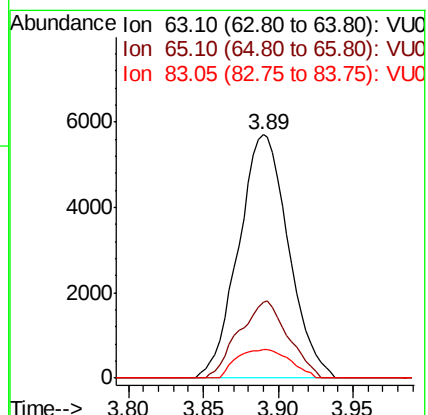
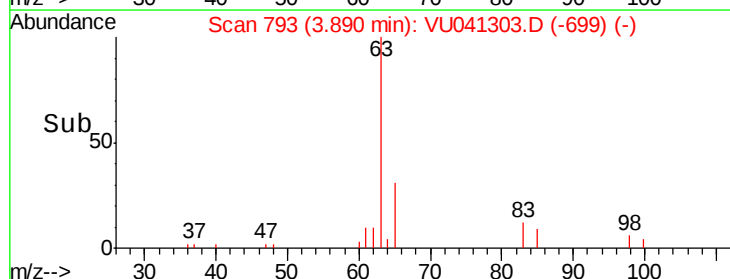
83 11.5 8.8 16.3

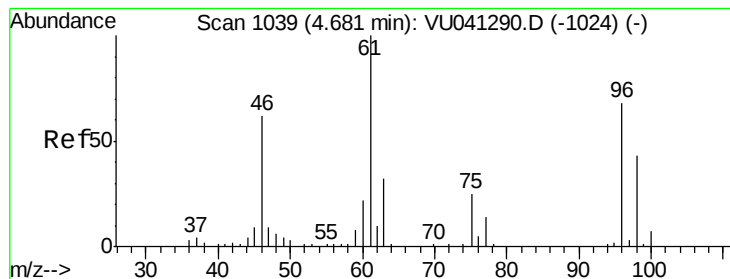


Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 65.10 (64.80 to 65.80): VU0

Ion 83.05 (82.75 to 83.75): VU0





#22

cis-1,2-Dichloroethene

Concen: 57.759 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU041303.D

Acq: 18 Nov 2020 02:12

Instrument :

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ClientSampleId :

H4415

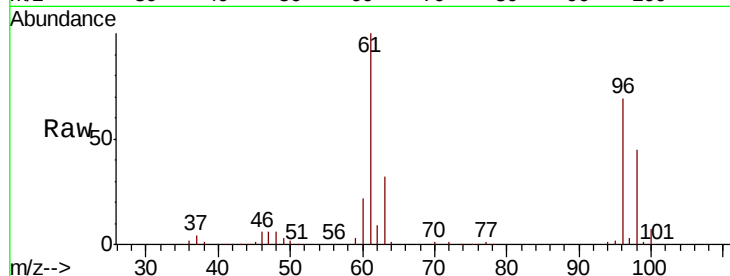
Tot Ion: 96 Resp: 268302

Ion Ratio Lower Upper

96 100

61 144.4 97.2 180.4

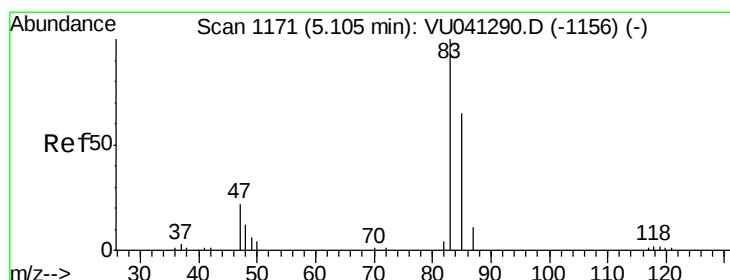
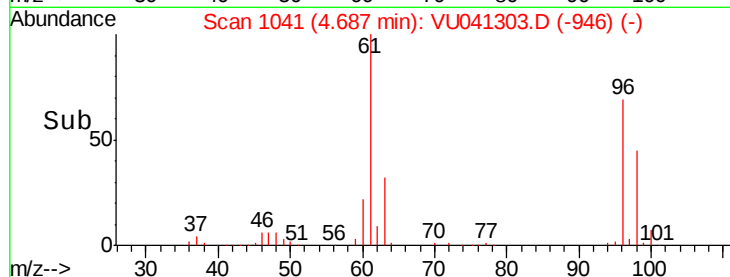
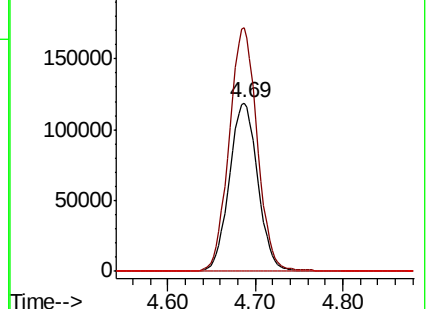
68 0.0 0.0 0.0



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: 0.053 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VU041303.D

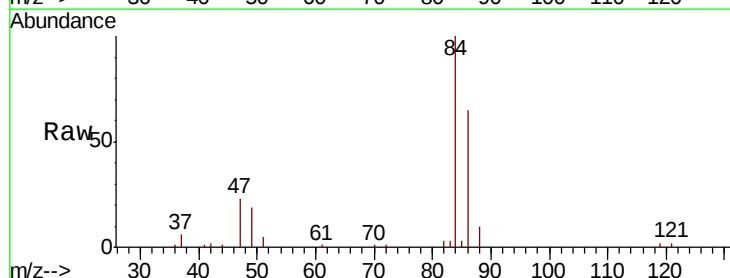
Acq: 18 Nov 2020 02:12

Tgt Ion: 83 Resp: 524

Ion Ratio Lower Upper

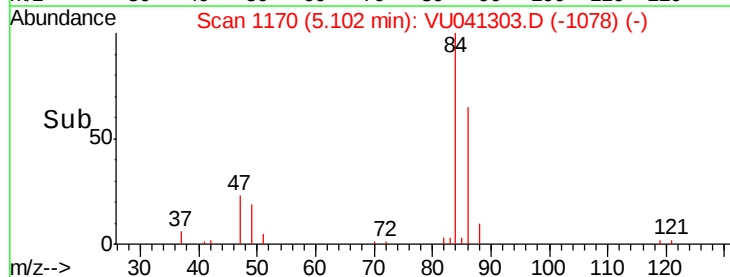
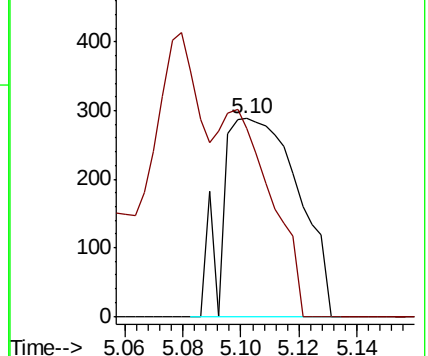
83 100

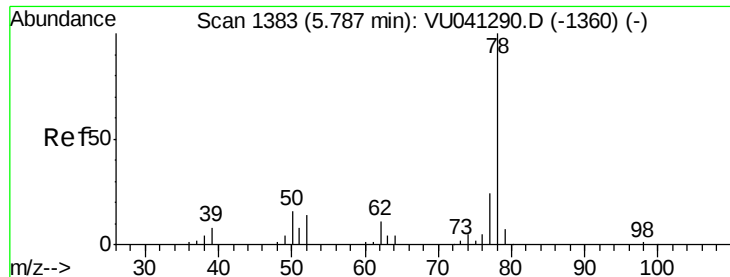
85 95.1 46.1 85.7#



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0





#33

Benzene

Concen: 0.331 ug/L

RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

Lab File: VU041303.D

Acq: 18 Nov 2020 02:12

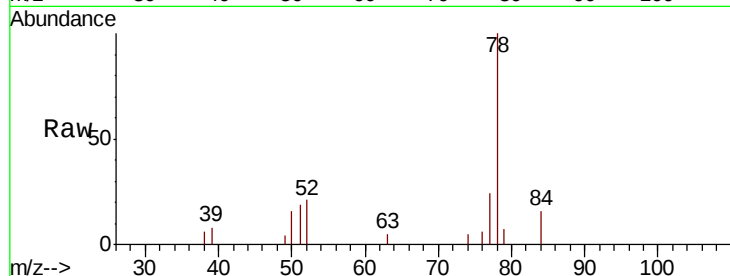
Instrument :

MSVOA_U

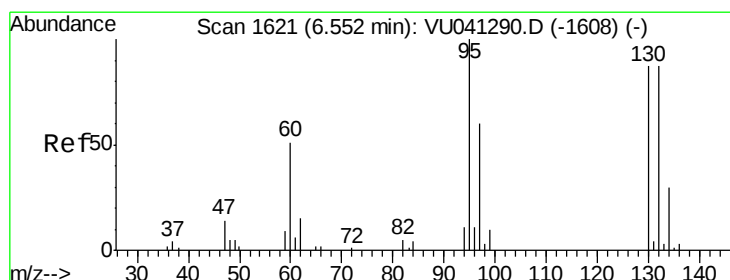
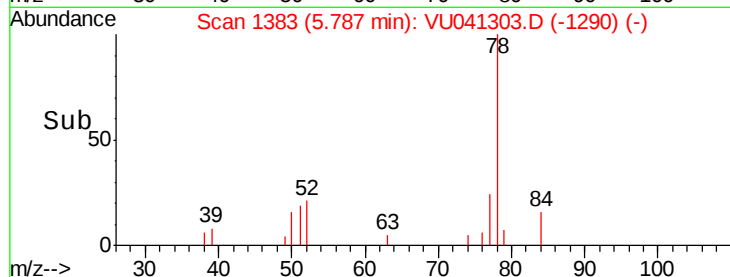
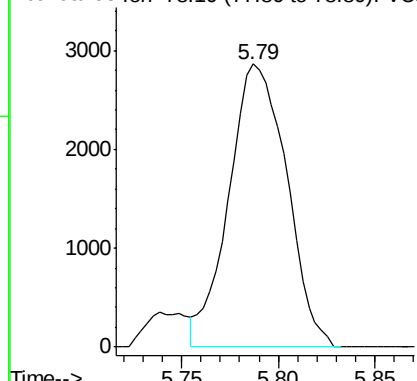
ClientSampled :

H4415

Tgt Ion: 78 Resp: 5947



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 36.077 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041303.D

Acq: 18 Nov 2020 02:12

Tgt Ion: 95 Resp: 175412

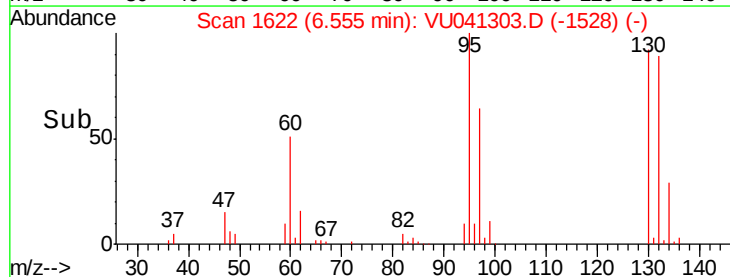
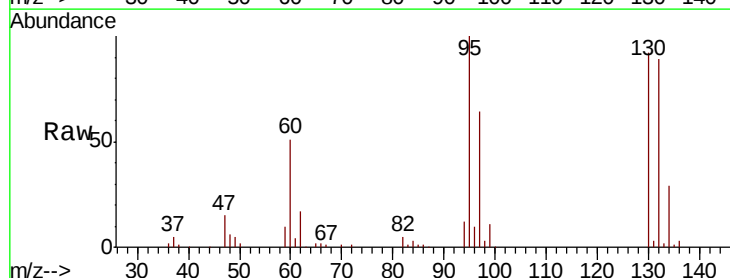
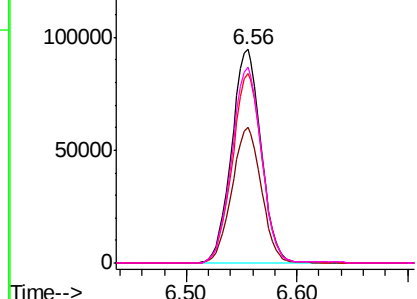
Ion	Ratio	Lower	Upper
95	100		
97	63.7	45.6	84.6
132	88.6	64.8	120.4
130	91.6	64.8	120.4

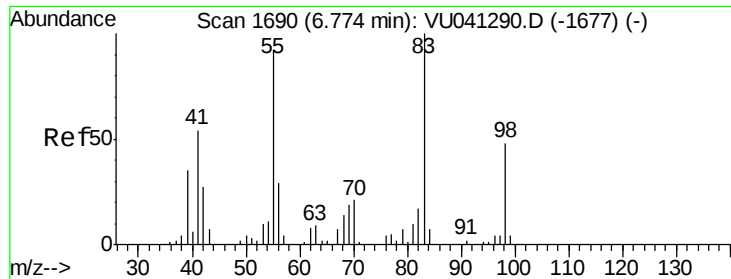
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

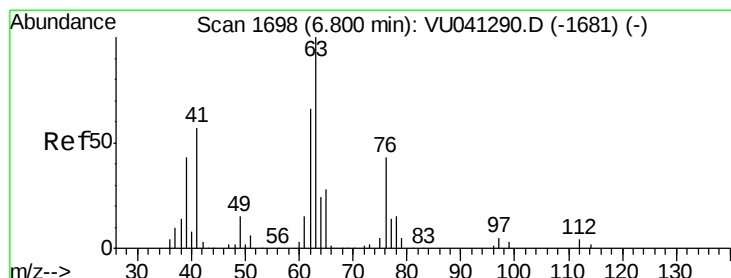
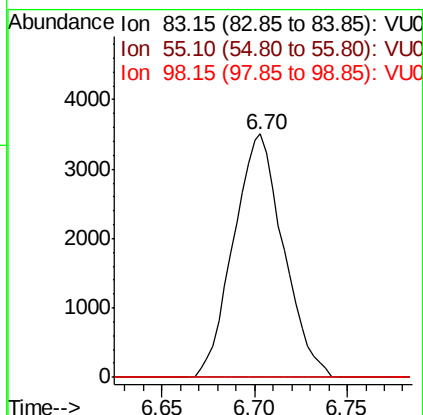
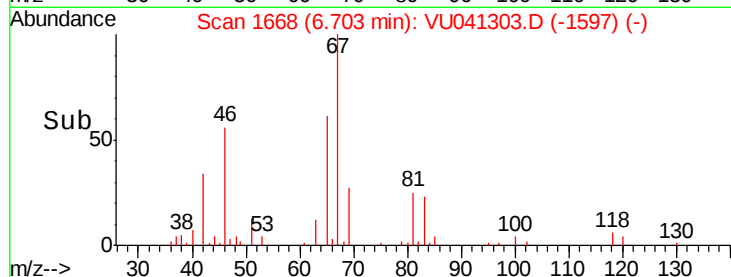
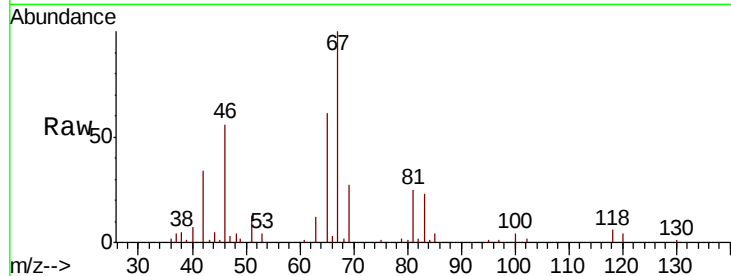




#35
Methylcyclohexane
Concen: 1.015 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041303.D
Acq: 18 Nov 2020 02:12

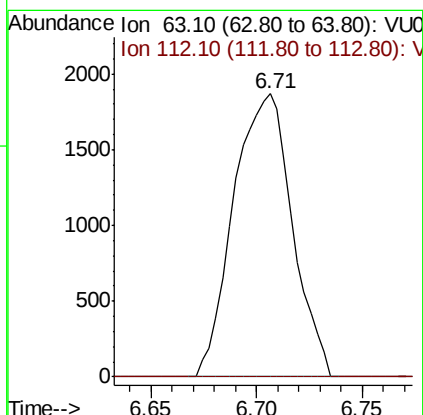
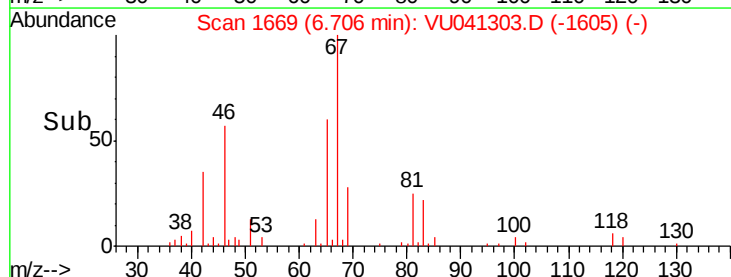
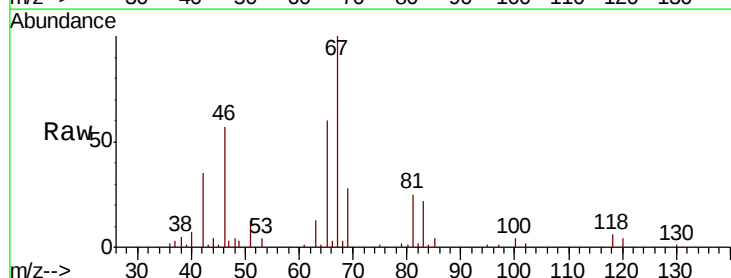
Instrument :
MSVOA_U
ClientSampleId :
H4415

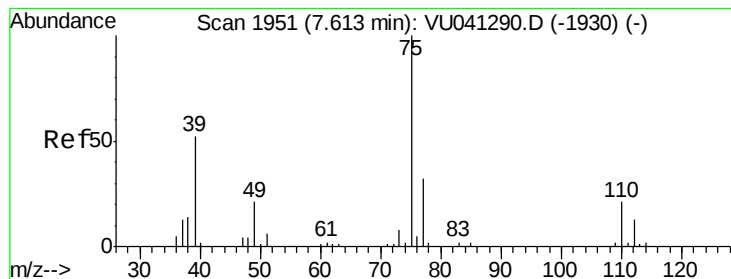
Tot Ion: 83 Resp: 6555
Ion Ratio Lower Upper
83 100
55 0.0 72.0 108.0#
98 0.0 36.6 55.0#



#37
1,2-Dichloropropane
Concen: 0.687 ug/L
RT: 6.71 min Scan# 1669
Delta R.T. -0.09 min
Lab File: VU041303.D
Acq: 18 Nov 2020 02:12

Tgt Ion: 63 Resp: 3610
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#



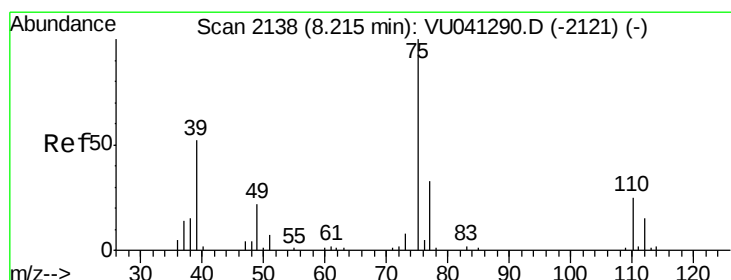
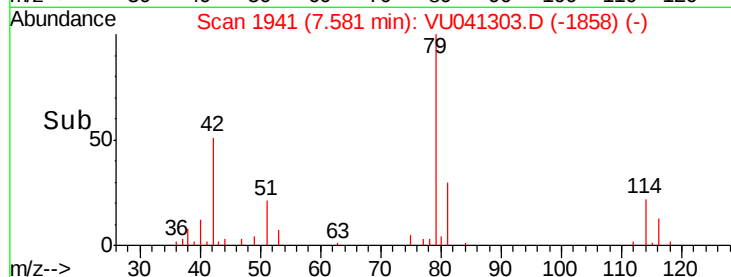
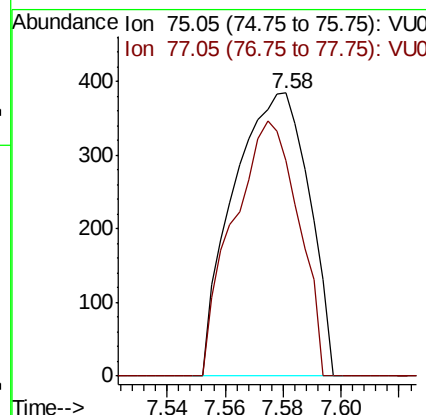
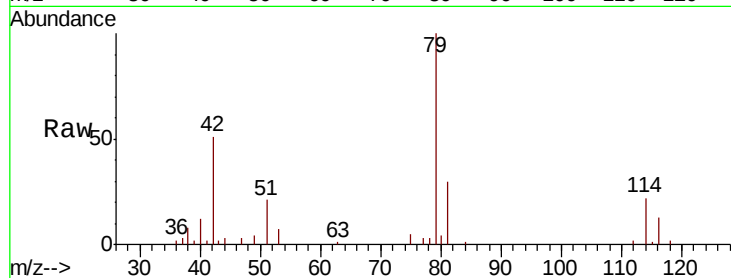


#39

cis-1,3-Dichloropropene
Concen: 0.094 ug/L
RT: 7.58 min Scan# 1941
Delta R.T. -0.03 min
Lab File: VU041303.D
Acq: 18 Nov 2020 02:12

Instrument :
MSVOA_U
ClientSampleId :
H4415

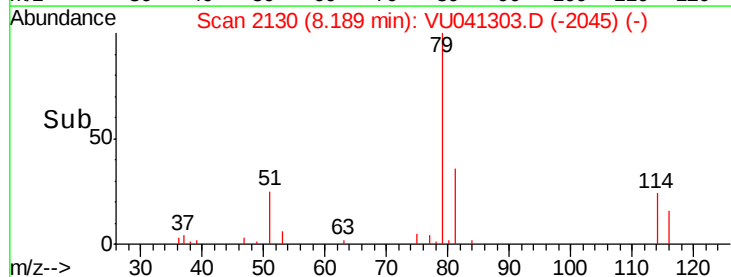
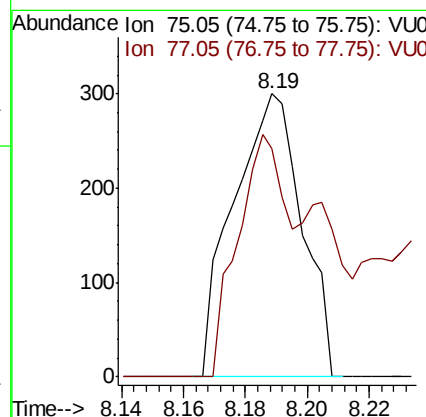
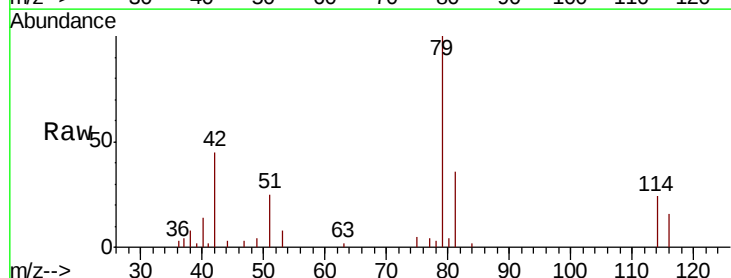
Tot Ion: 75 Resp: 693
Ion Ratio Lower Upper
75 100
77 76.3 22.7 42.3#

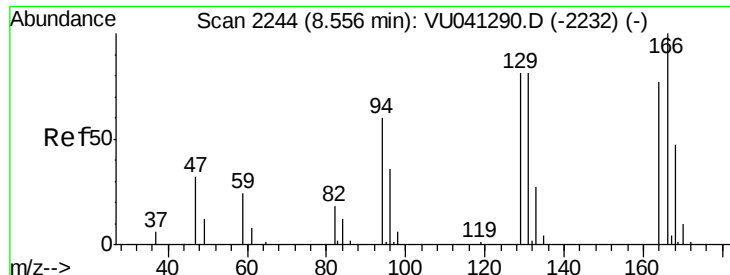


#44

trans-1,3-Dichloropropene
Concen: 0.066 ug/L
RT: 8.19 min Scan# 2130
Delta R.T. -0.03 min
Lab File: VU041303.D
Acq: 18 Nov 2020 02:12

Tgt Ion: 75 Resp: 460
Ion Ratio Lower Upper
75 100
77 80.7 23.3 43.3#

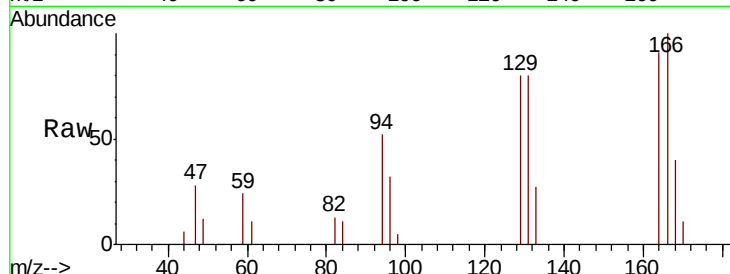




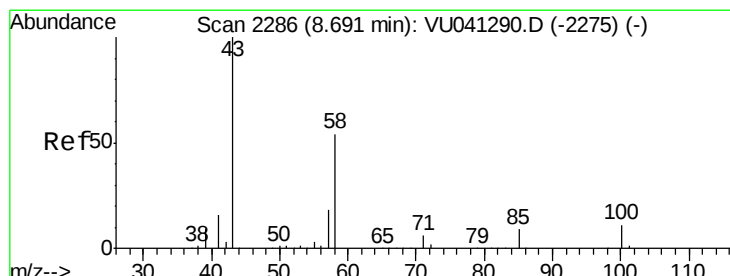
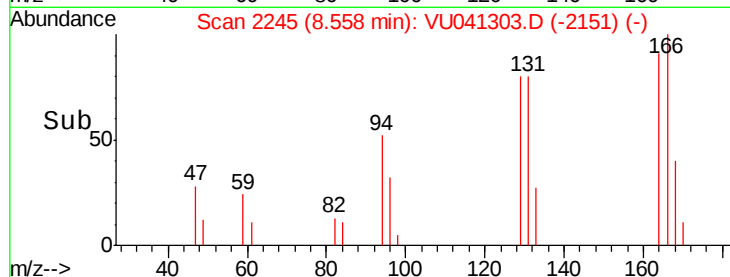
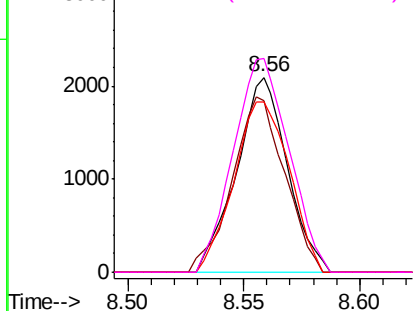
#47
Tetrachloroethene
Concen: 0.888 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. 0.00 min
Lab File: VU041303.D
Acq: 18 Nov 2020 02:12

Instrument :
MSVOA_U
ClientSampleId :
H4415

Tot Ion:164 Resp: 3192
Ion Ratio Lower Upper
164 100
129 87.8 70.3 130.7
131 87.1 70.8 131.4
166 109.6 92.0 170.8

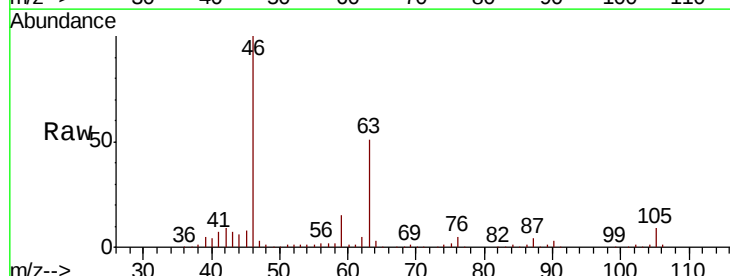


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

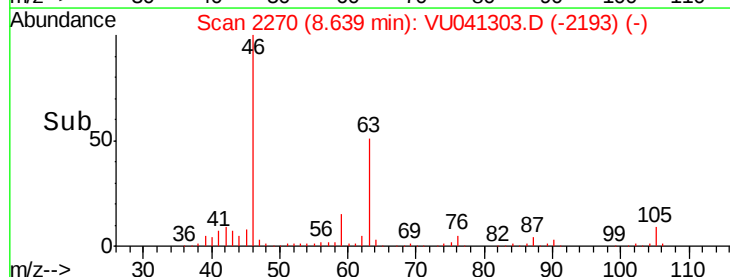
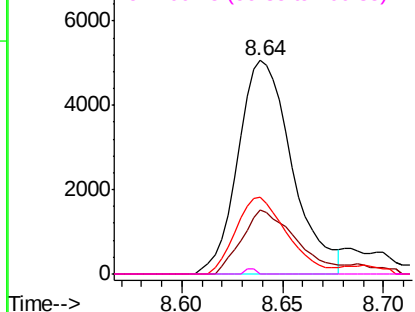


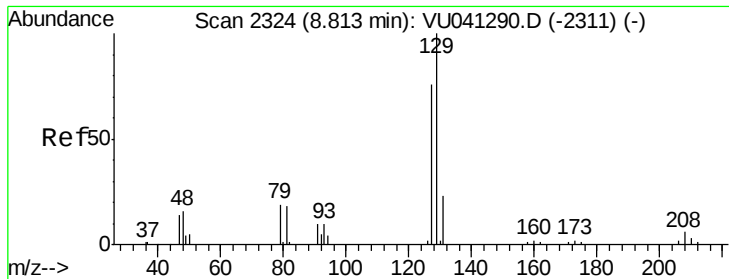
#48
2-Hexanone
Concen: 2.918 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041303.D
Acq: 18 Nov 2020 02:12

Tgt Ion: 43 Resp: 9478
Ion Ratio Lower Upper
43 100
58 29.9 41.4 62.2#
57 34.1 14.6 21.8#
100 0.5 8.3 12.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.610 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041303.D

Acq: 18 Nov 2020 02:12

Instrument :

MSVOA_U

ClientSampleId :

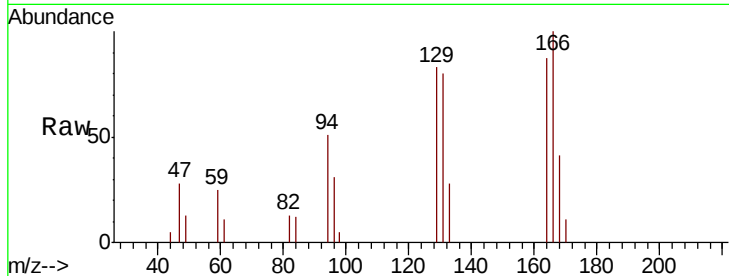
H4415

Tot Ion:129 Resp: 2938

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

2000

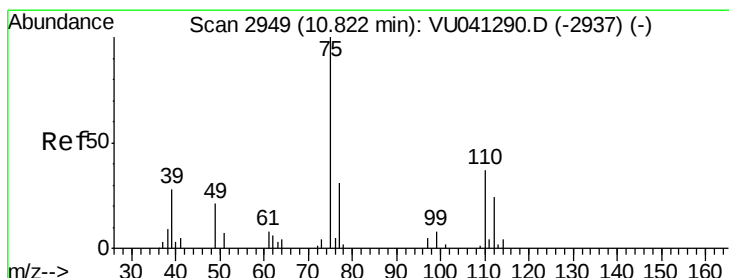
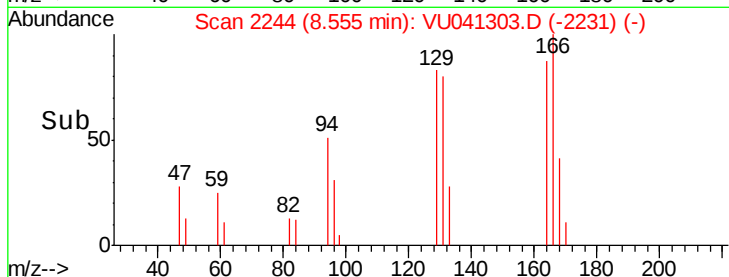
1500

1000

500

0

Time--> 8.50 8.55 8.60



#59

1,2,3-Trichloropropane

Concen: 0.843 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041303.D

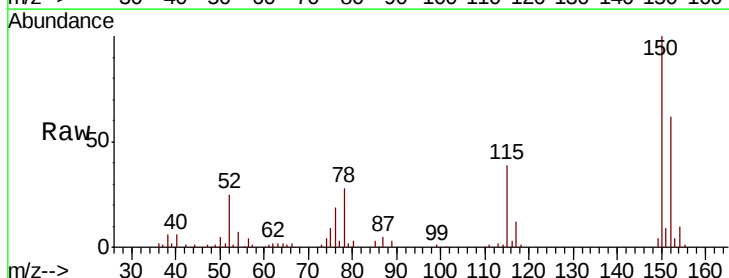
Acq: 18 Nov 2020 02:12

Tgt Ion: 75 Resp: 3495

Ion Ratio Lower Upper

75 100

77 38.8 25.7 38.5#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

2500

2000

1500

1000

500

0

Time--> 11.75 11.80 11.85

