

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110920\
 Data File : VU041141.D
 Acq On : 09 Nov 2020 15:24
 Operator : SY/MD
 Sample : L4648-02
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA9

Quant Time: Nov 10 01:12:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 10 01:04:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	53463	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	56840	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	23640	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	15706	3.50	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.00%
7) Chloroethane-d5	1.92	69	14754	4.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.40%
11) 1,1-Dichloroethene-d2	2.58	63	25438	2.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	57.80%#
20) 2-Butanone-d5	4.65	46	79757	53.92	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.84%
24) Chloroform-d	5.08	84	40672	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.60%
26) 1,2-Dichloroethane-d4	5.72	65	25692	5.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.40%
32) Benzene-d6	5.75	84	69886	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
36) 1,2-Dichloropropane-d6	6.70	67	25229	5.10	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.00%
41) Toluene-d8	7.91	98	56375	4.09	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.80%
43) trans-1,3-Dichloropropene-	8.19	79	9601	4.47	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.40%
46) 2-Hexanone-d5	8.64	63	59148	51.21	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.42%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	23698	5.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	24679	5.95	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	119.00%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	453	0.089 ug/L	86
8) Chloroethane	1.94	64	143	0.045 ug/L #	43
9) Trichlorofluoromethane	2.15	101	73926	10.832 ug/L	100
13) Acetone	2.65	43	1334	1.319 ug/L	75
15) Methyl Acetate	2.96	43	256	0.111 ug/L #	53
22) cis-1,2-Dichloroethene	4.69	96	615	0.155 ug/L	97
25) Chloroform	5.11	83	1864	0.242 ug/L #	71
27) 1,2-Dichloroethane	5.75	62	395	0.069 ug/L #	74
31) Carbon tetrachloride	5.54	117	1689	0.274 ug/L	95
33) Benzene	5.75	78	483	0.028 ug/L	100
34) Trichloroethene	6.55	95	4271	0.988 ug/L	91
35) Methylcyclohexane	6.71	83	6036	0.936 ug/L #	16
37) 1,2-Dichloropropane	6.70	63	2911	0.633 ug/L #	86
39) cis-1,3-Dichloropropene	7.58	75	715	0.113 ug/L	83
40) 4-Methyl-2-pentanone	7.72	43	2509	0.685 ug/L #	45
44) trans-1,3-Dichloropropene	8.19	75	391	0.066 ug/L #	48
45) 1,1,2-Trichloroethane	8.40	97	286	0.084 ug/L #	50

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 10 01:04:12 2020
Response via : Initial Calibration

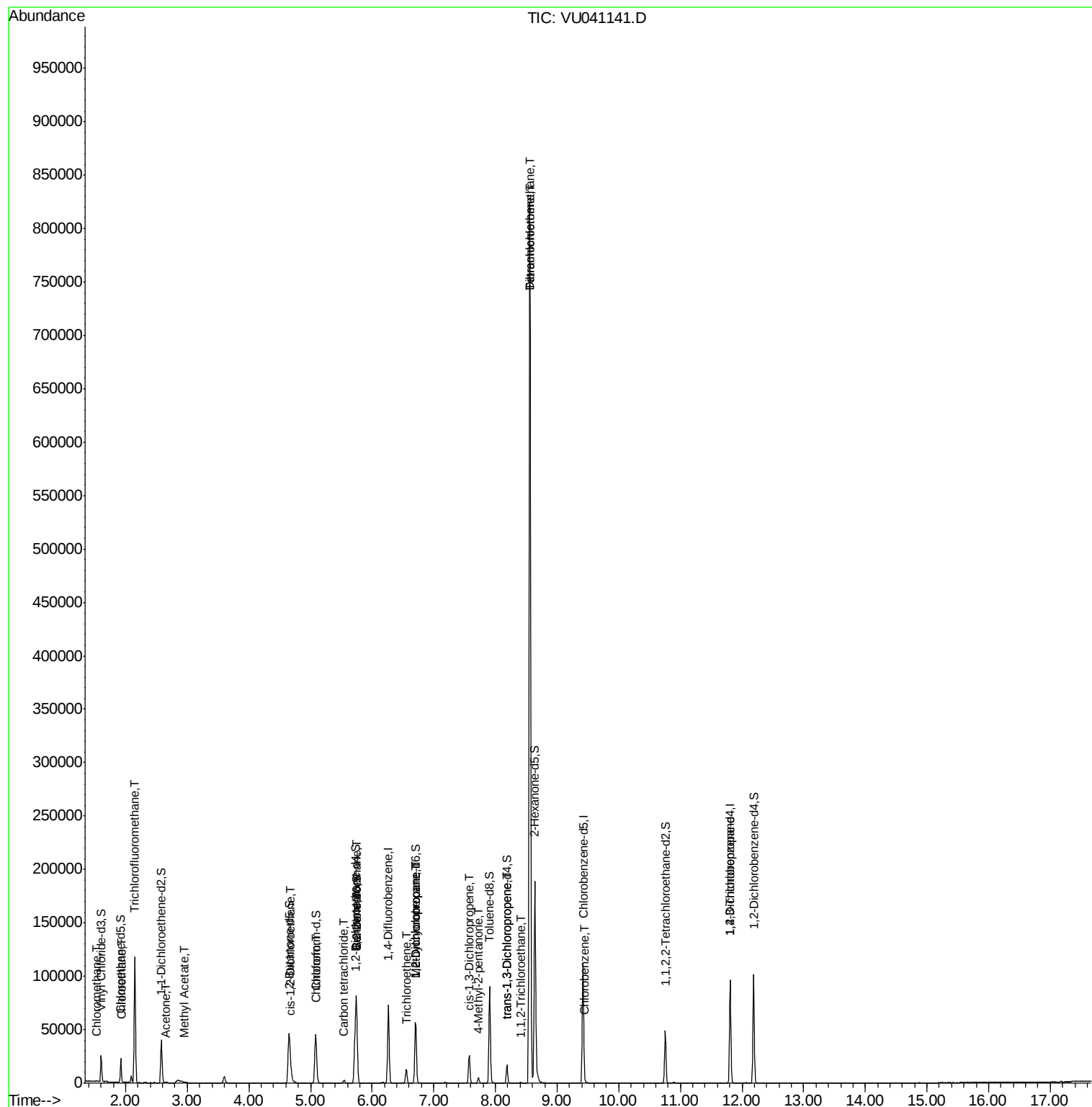
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	166180	52.288	ug/L	97
49) Dibromochloromethane	8.56	129	164866	41.498	ug/L #	11
51) Chlorobenzene	9.45	112	525	0.048	ug/L	99
59) 1,2,3-Trichloropropane	11.81	75	3245	0.947	ug/L	95

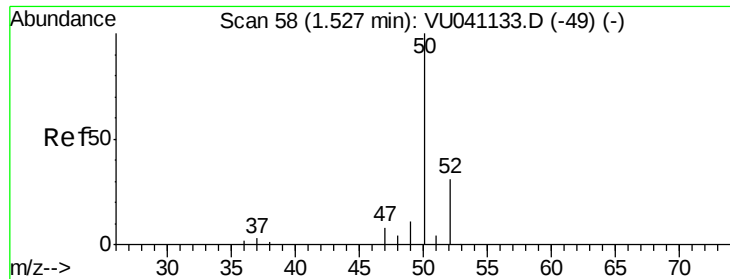
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 10 01:04:12 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.089 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

Instrument :

MSVOA_U

ClientSampleId :

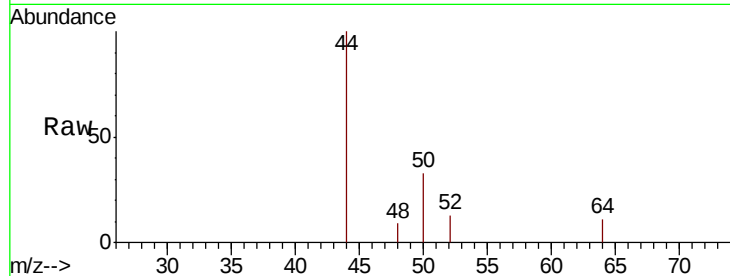
C0AA9

Tot Ion: 50 Resp: 453

Ion Ratio Lower Upper

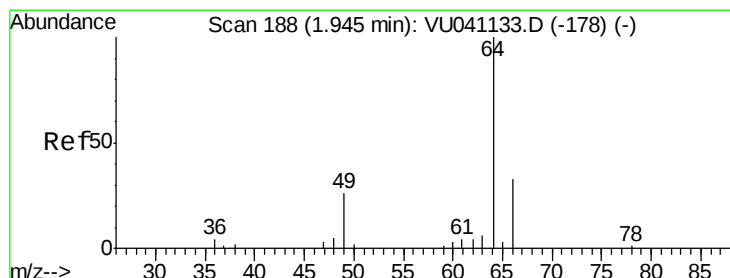
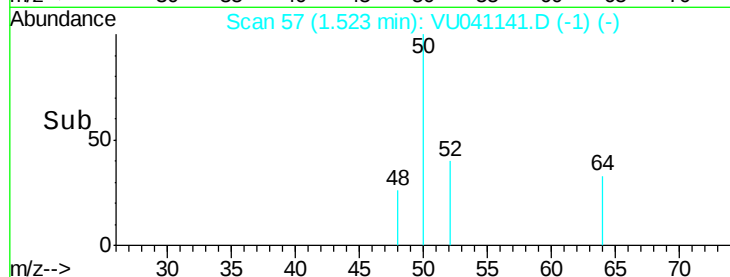
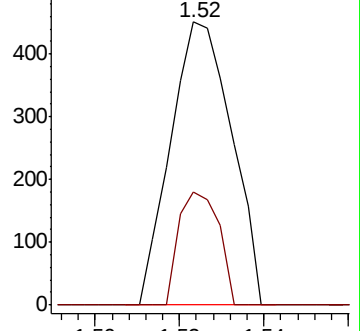
50 100

52 39.9 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#8

Chloroethane

Concen: 0.045 ug/L

RT: 1.94 min Scan# 186

Delta R.T. -0.01 min

Lab File: VU041141.D

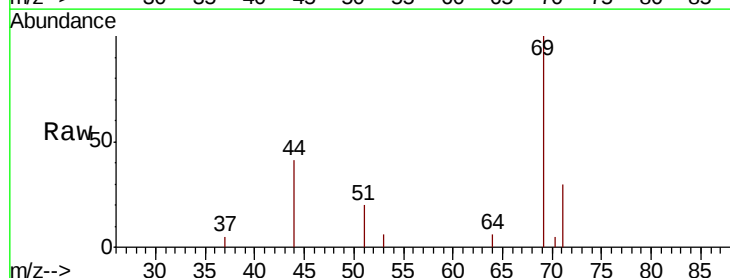
Acq: 09 Nov 2020 15:24

Tgt Ion: 64 Resp: 143

Ion Ratio Lower Upper

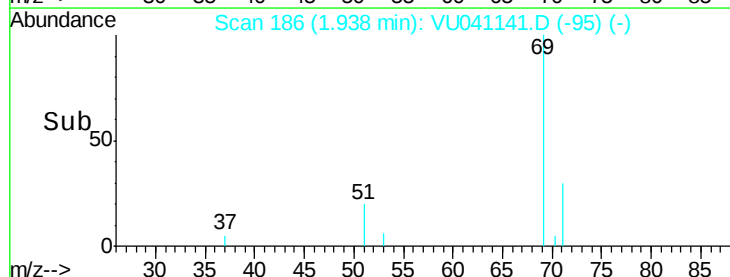
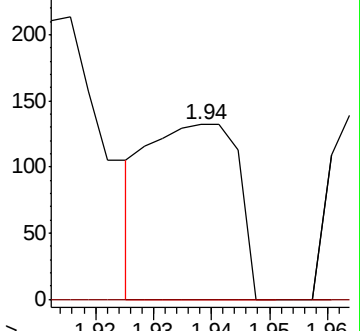
64 100

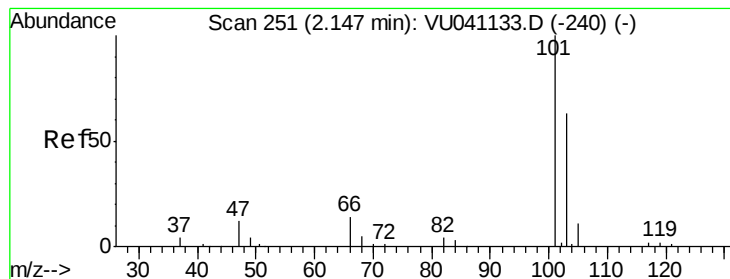
66 0.0 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



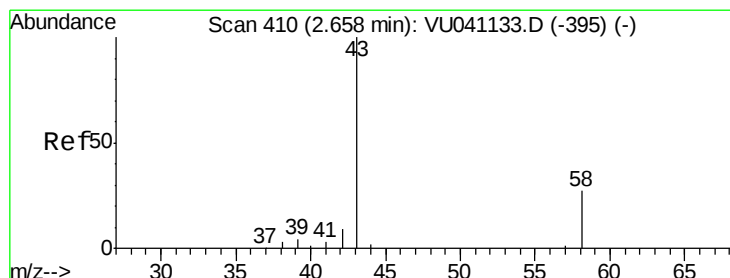
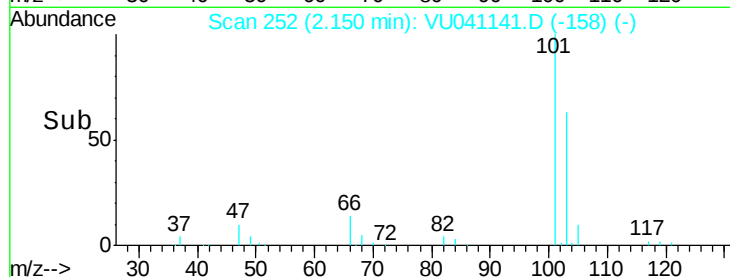
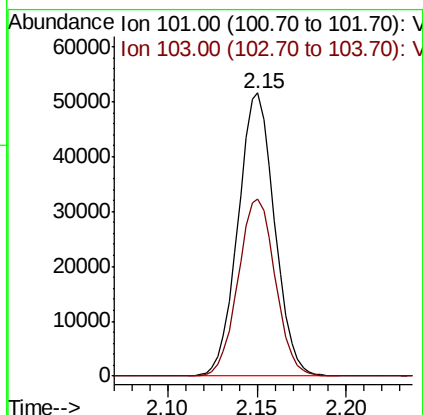
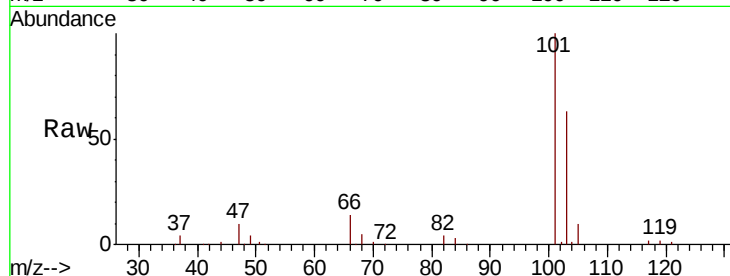


#9

Trichlorofluoromethane
Concen: 10.832 ug/L
RT: 2.15 min Scan# 252
Delta R.T. 0.00 min
Lab File: VU041141.D
Acq: 09 Nov 2020 15:24

Instrument :
MSVOA_U
ClientSampleId :
C0AA9

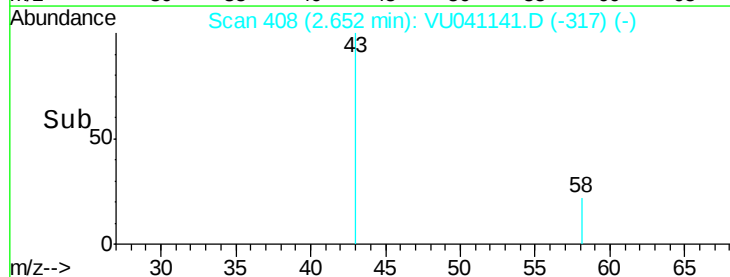
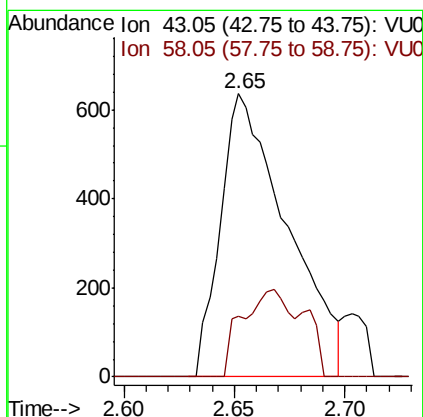
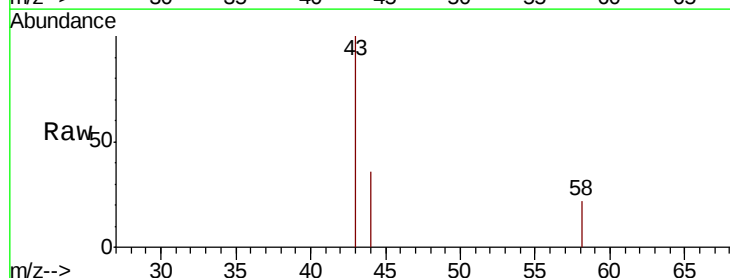
Tot Ion:101 Resp: 73926
Ion Ratio Lower Upper
101 100
103 63.6 51.0 76.4

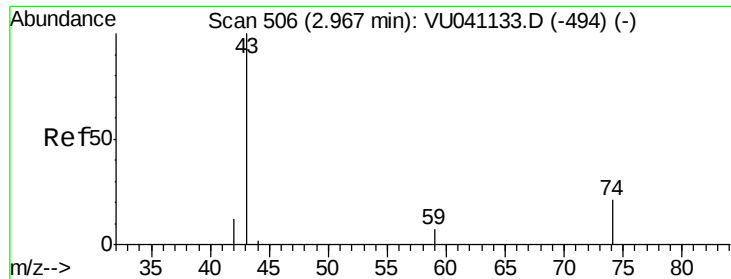


#13

Acetone
Concen: 1.319 ug/L
RT: 2.65 min Scan# 408
Delta R.T. -0.01 min
Lab File: VU041141.D
Acq: 09 Nov 2020 15:24

Tgt Ion: 43 Resp: 1334
Ion Ratio Lower Upper
43 100
58 22.5 0.0 25.4





#15

Methyl Acetate

Concen: 0.111 ug/L

RT: 2.96 min Scan# 505

Delta R.T. -0.00 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

Instrument :

MSVOA_U

ClientSampleId :

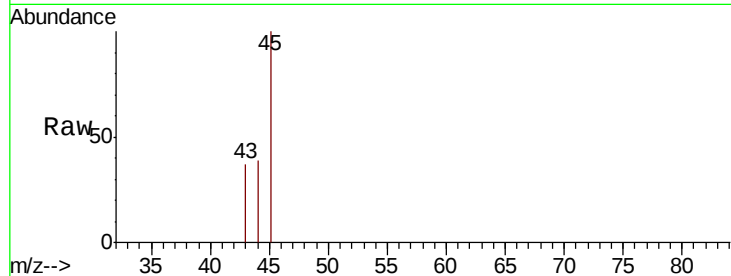
C0AA9

Tot Ion: 43 Resp: 256

Ion Ratio Lower Upper

43 100

74 0.0 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0

2.96

200

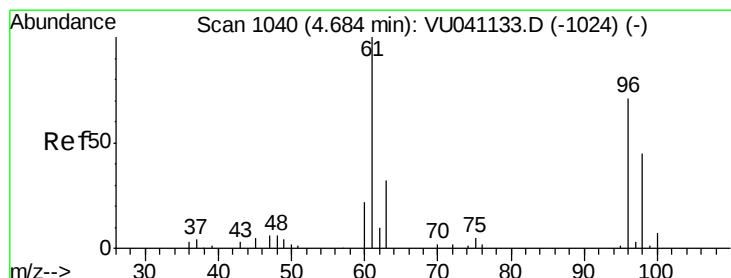
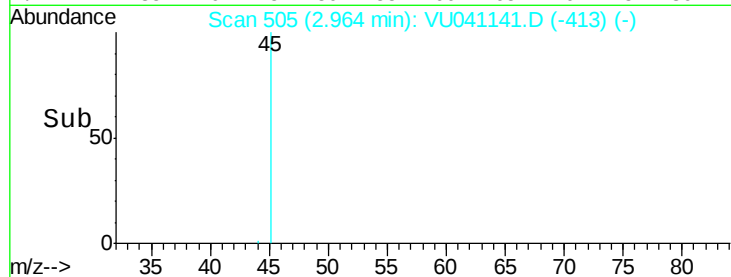
150

100

50

0

Time--> 2.94 2.96 2.98 3.00



#22

cis-1,2-Dichloroethene

Concen: 0.155 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

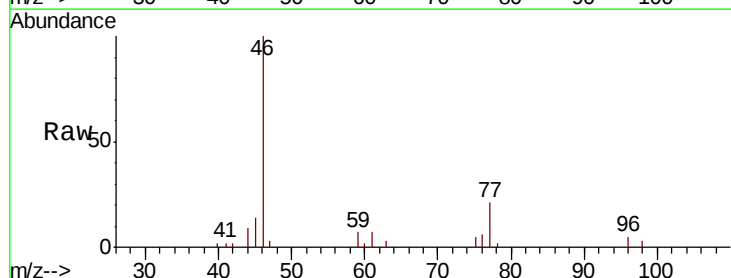
Tgt Ion: 96 Resp: 615

Ion Ratio Lower Upper

96 100

61 134.8 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

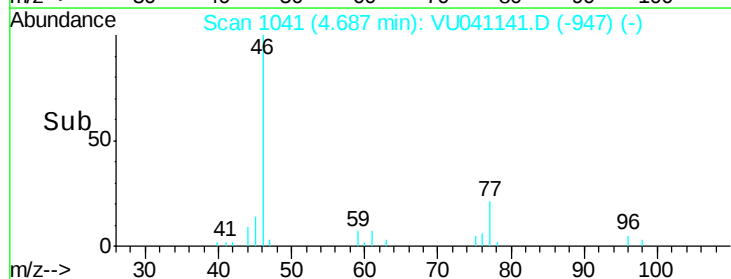
600

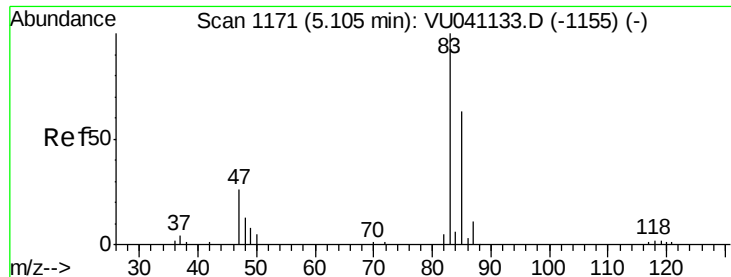
400

200

0

Time--> 4.65 4.69 4.73





#25

Chloroform

Concen: 0.242 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. -0.00 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

Instrument :

MSVOA_U

ClientSampleId :

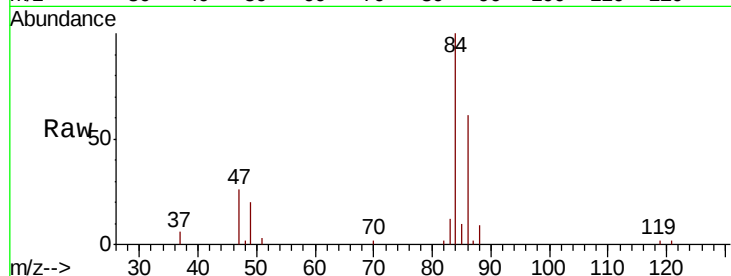
C0AA9

Tot Ion: 83 Resp: 1864

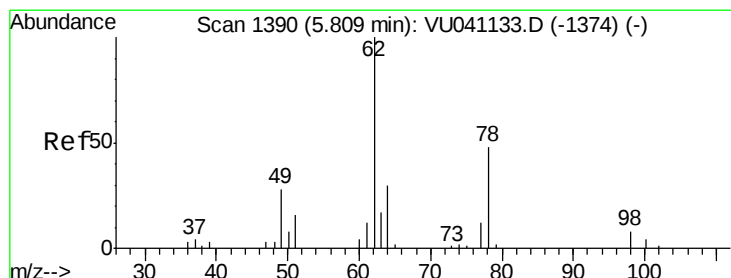
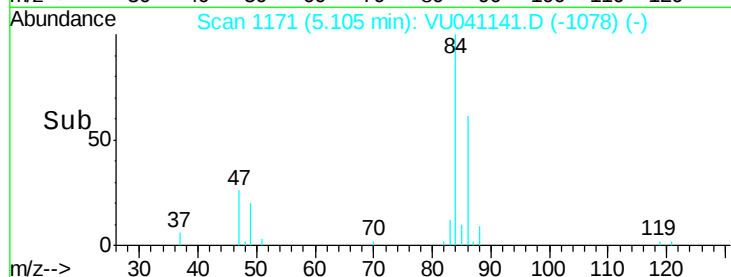
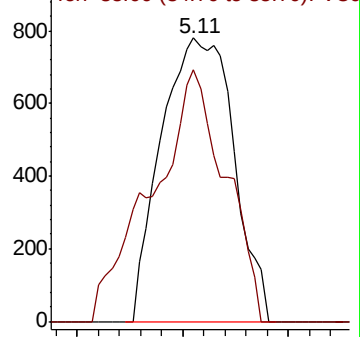
Ion Ratio Lower Upper

83 100

85 88.7 46.1 85.7#



Abundance Ion 83.05 (82.75 to 83.75): VU041133.D (-1155) (-)



#27

1,2-Dichloroethane

Concen: 0.069 ug/L

RT: 5.75 min Scan# 1372

Delta R.T. -0.06 min

Lab File: VU041141.D

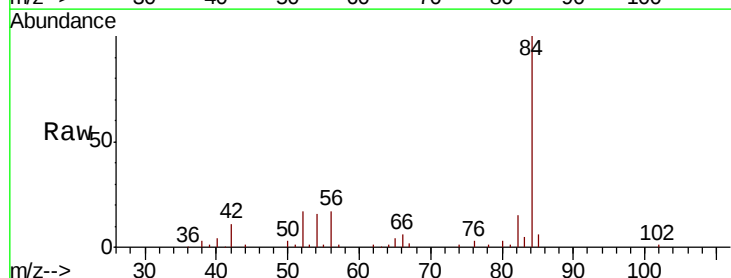
Acq: 09 Nov 2020 15:24

Tgt Ion: 62 Resp: 395

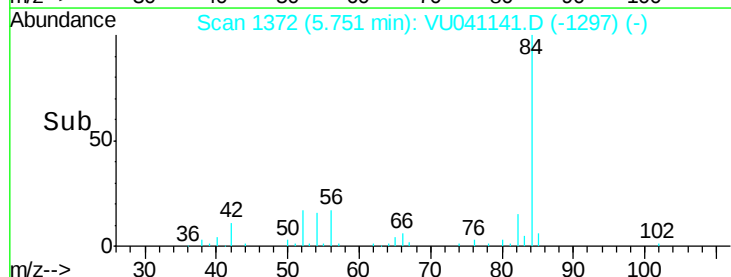
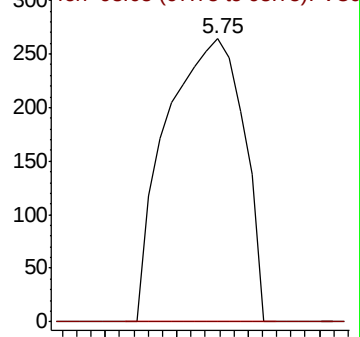
Ion Ratio Lower Upper

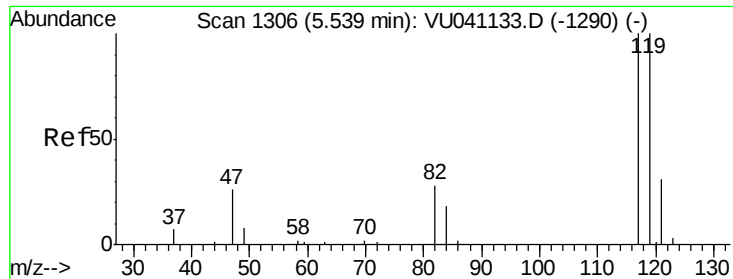
62 100

98 0.0 7.6 11.4#



Abundance Ion 62.00 (61.70 to 62.70): VU041133.D (-1374) (-)





#31

Carbon tetrachloride

Concen: 0.274 ug/L

RT: 5.54 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

Instrument :

MSVOA_U

ClientSampled :

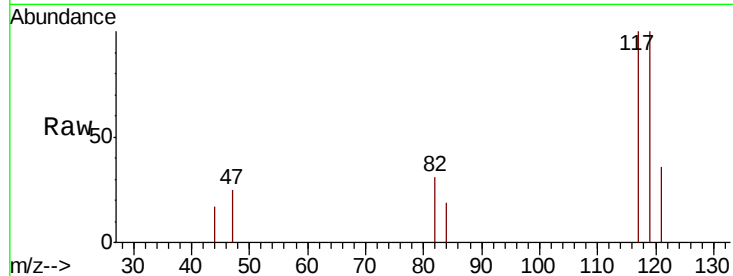
C0AA9

Tot Ion:117 Resp: 1689

Ion Ratio Lower Upper

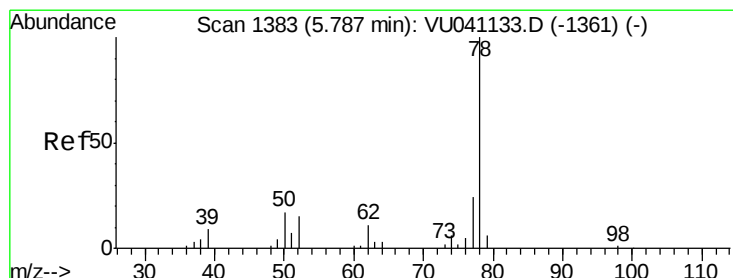
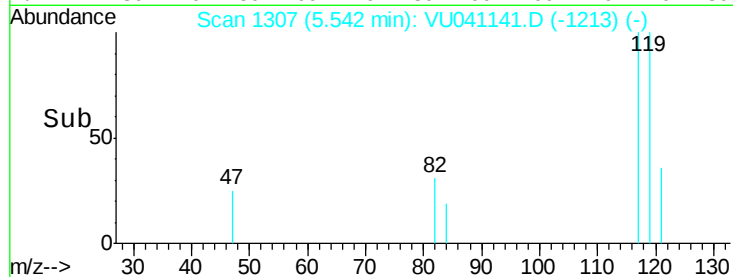
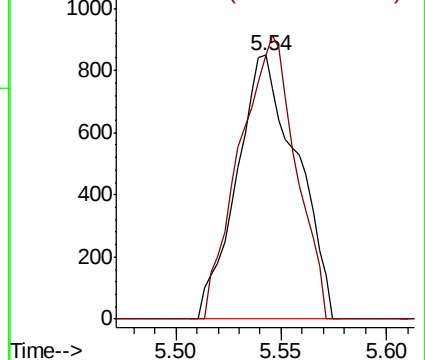
117 100

119 100.4 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.028 ug/L

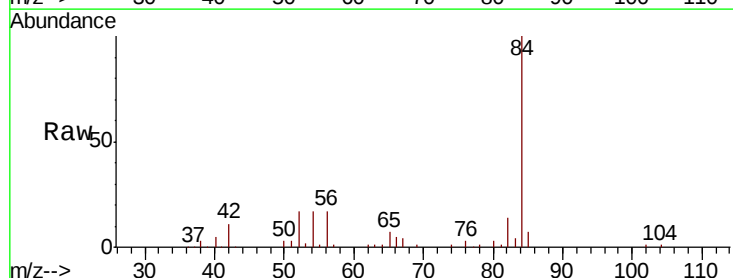
RT: 5.75 min Scan# 1370

Delta R.T. -0.04 min

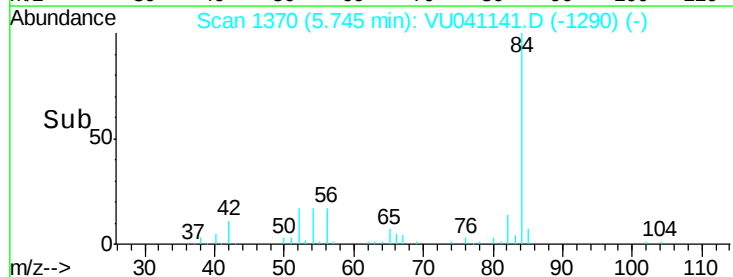
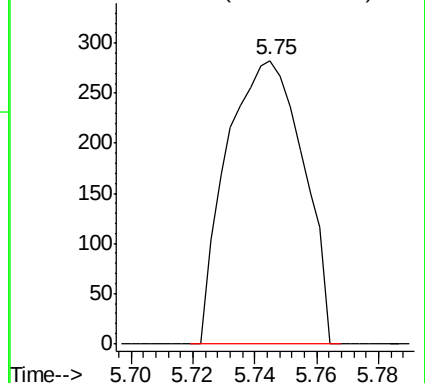
Lab File: VU041141.D

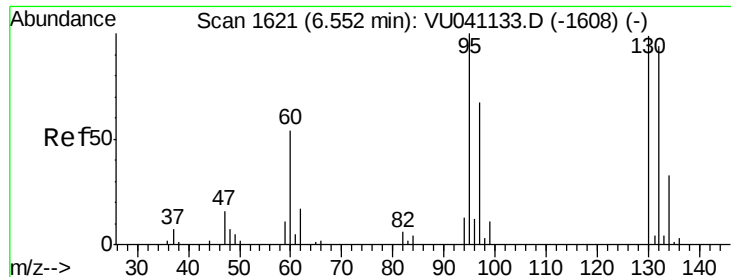
Acq: 09 Nov 2020 15:24

Tgt Ion: 78 Resp: 483



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.988 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

Instrument :

MSVOA_U

ClientSampleId :

C0AA9

Tot Ion: 95 Resp: 4271

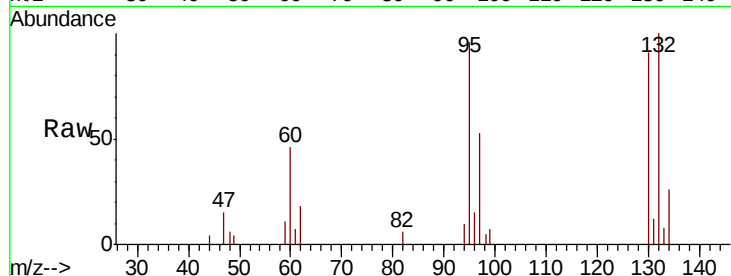
Ion Ratio Lower Upper

95 100

97 55.4 45.6 84.6

132 104.3 64.8 120.4

130 94.9 64.8 120.4

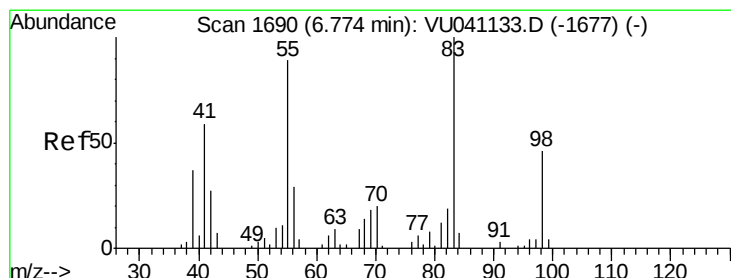
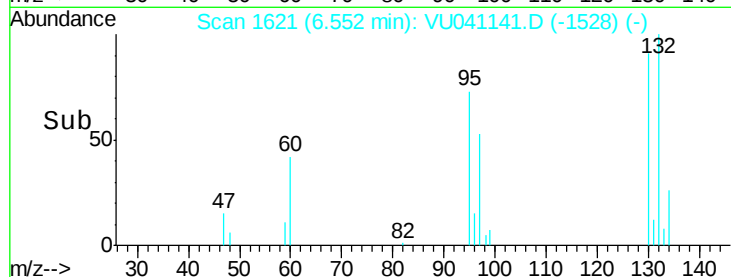
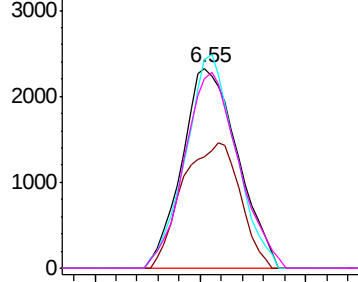


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.936 ug/L

RT: 6.71 min Scan# 1669

Delta R.T. -0.07 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

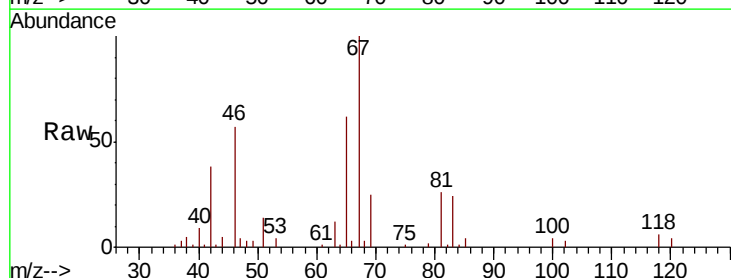
Tgt Ion: 83 Resp: 6036

Ion Ratio Lower Upper

83 100

55 0.0 72.0 108.0#

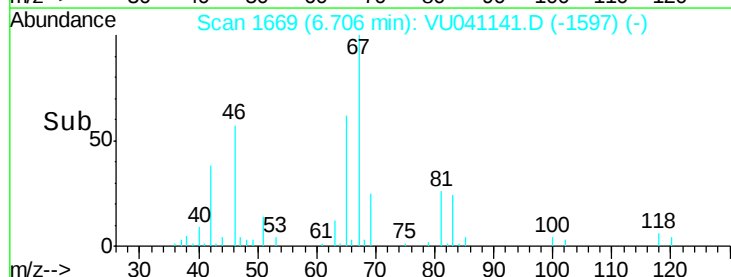
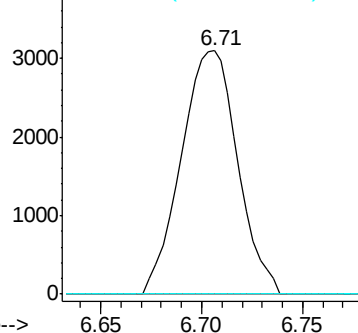
98 4.6 36.6 55.0#

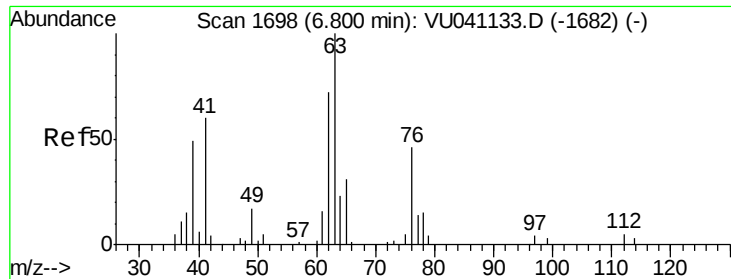


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

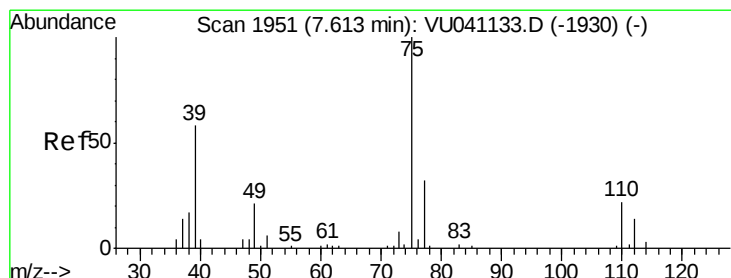
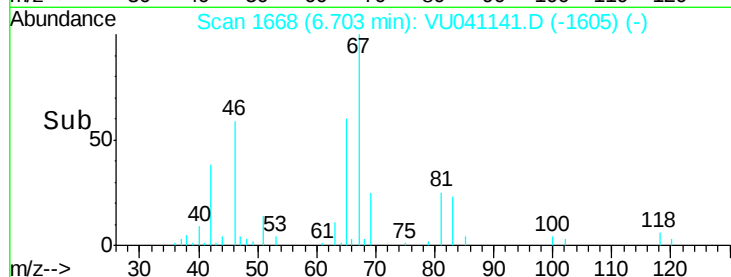
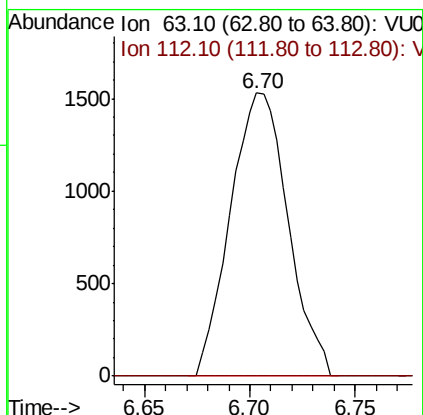
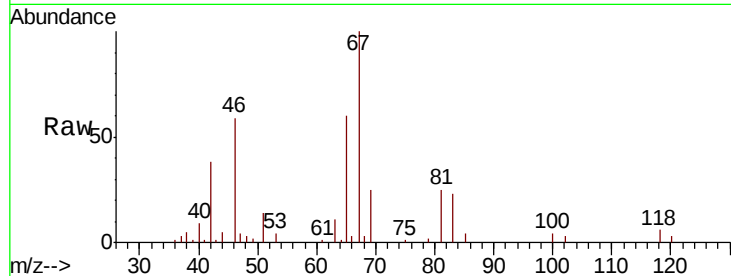




#37
 1,2-Dichloropropane
 Concen: 0.633 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041141.D
 Acq: 09 Nov 2020 15:24

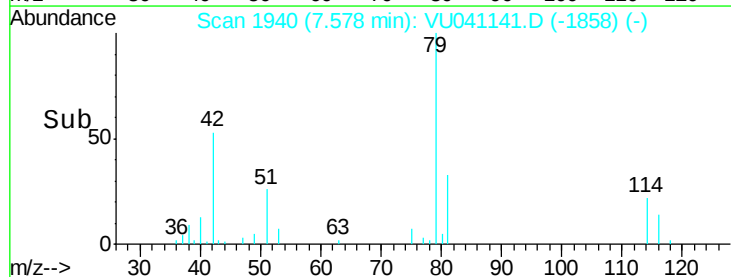
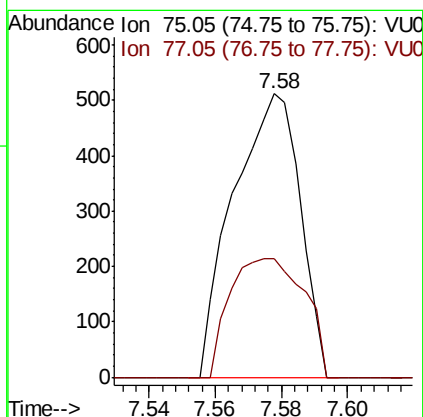
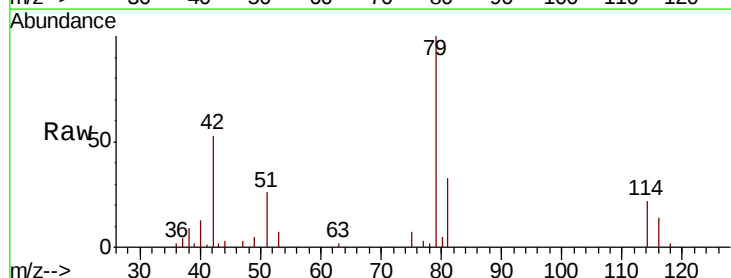
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA9

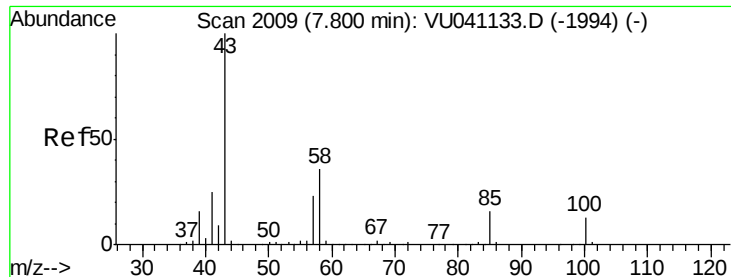
Tot Ion: 63 Resp: 2911
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.113 ug/L
 RT: 7.58 min Scan# 1940
 Delta R.T. -0.04 min
 Lab File: VU041141.D
 Acq: 09 Nov 2020 15:24

Tgt Ion: 75 Resp: 715
 Ion Ratio Lower Upper
 75 100
 77 42.0 22.7 42.3

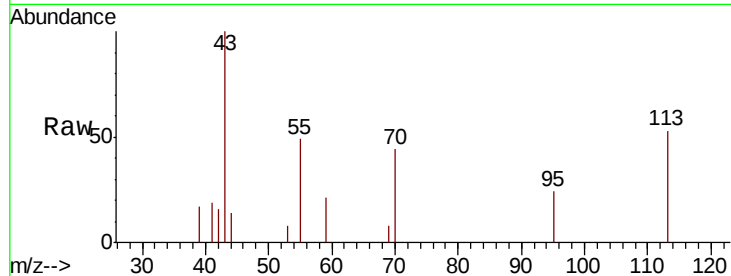




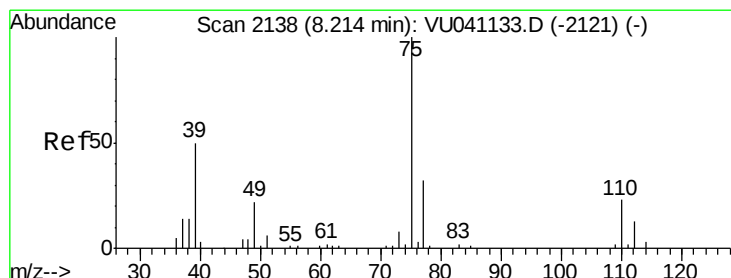
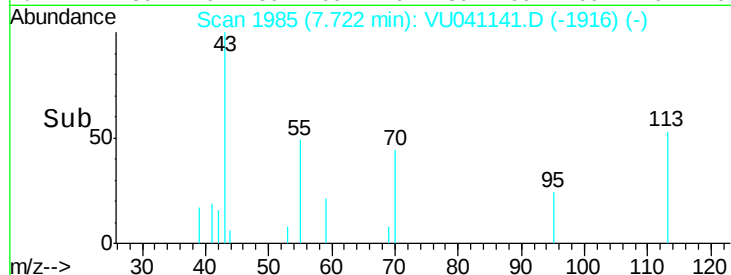
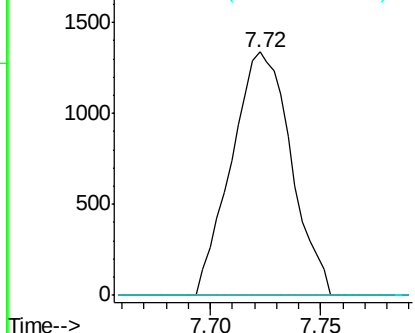
#40
4-Methyl-2-pentanone
Concen: 0.685 ug/L
RT: 7.72 min Scan# 1985
Delta R.T. -0.08 min
Lab File: VU041141.D
Acq: 09 Nov 2020 15:24

Instrument :
MSVOA_U
ClientSampled :
C0AA9

Tot Ion: 43 Resp: 2509
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.6#
100 0.0 10.5 15.7#

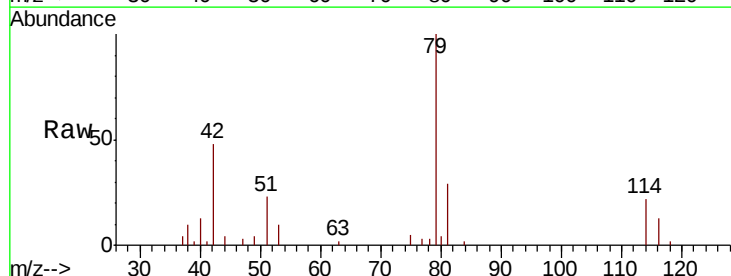


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 100.15 (99.85 to 100.85): VU0

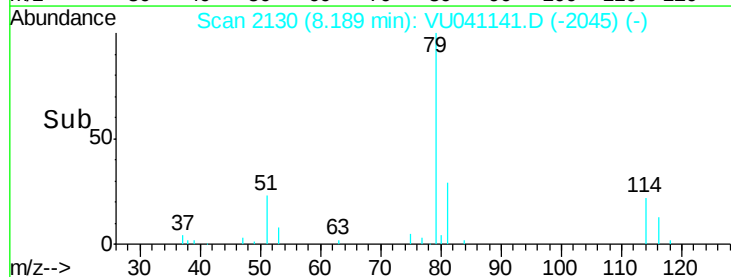
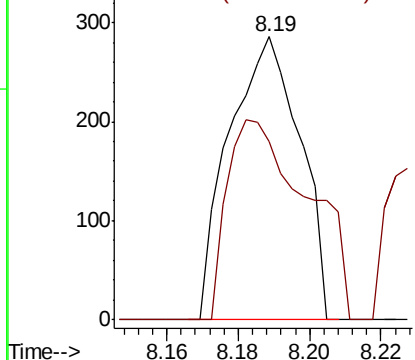


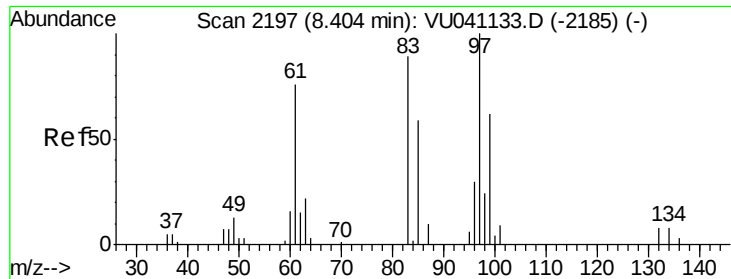
#44
trans-1,3-Dichloropropene
Concen: 0.066 ug/L
RT: 8.19 min Scan# 2130
Delta R.T. -0.03 min
Lab File: VU041141.D
Acq: 09 Nov 2020 15:24

Tgt Ion: 75 Resp: 391
Ion Ratio Lower Upper
75 100
77 62.9 23.3 43.3#



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

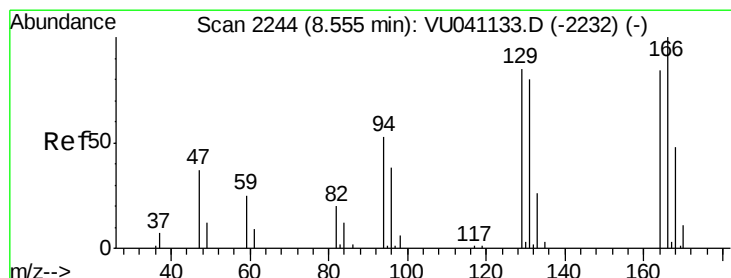
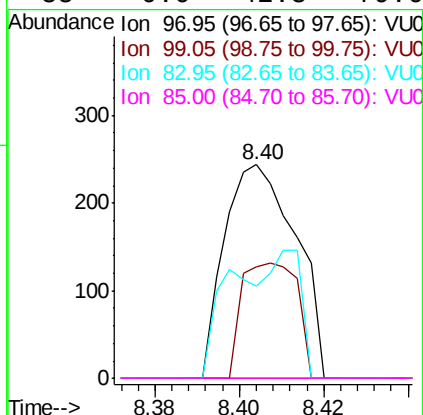
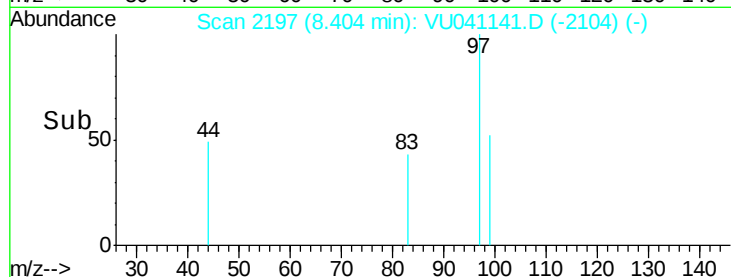
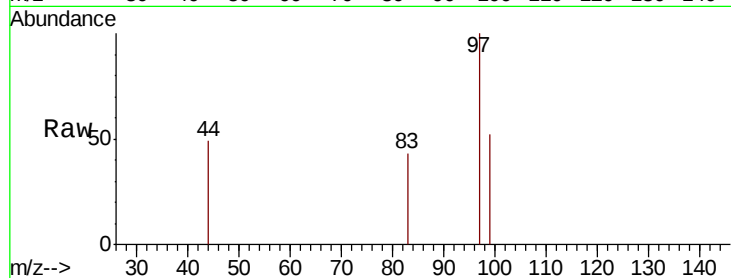




#45
 1,1,2-Trichloroethane
 Concen: 0.084 ug/L
 RT: 8.40 min Scan# 2197
 Delta R.T. -0.00 min
 Lab File: VU041141.D
 Acq: 09 Nov 2020 15:24

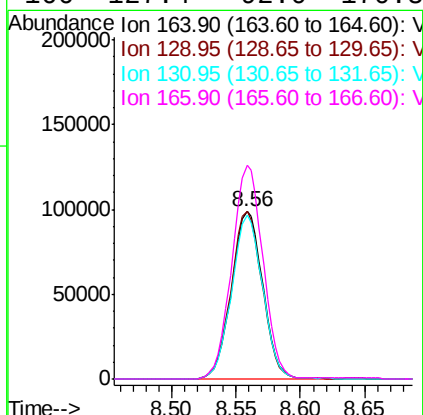
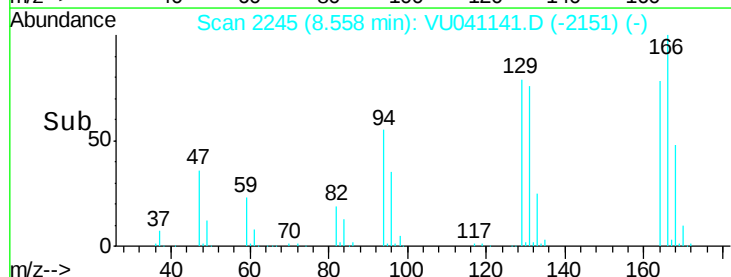
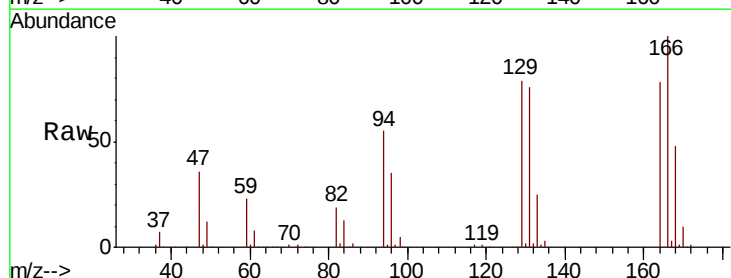
Instrument :
 MSVOA_U
 ClientSampleId :
 C0AA9

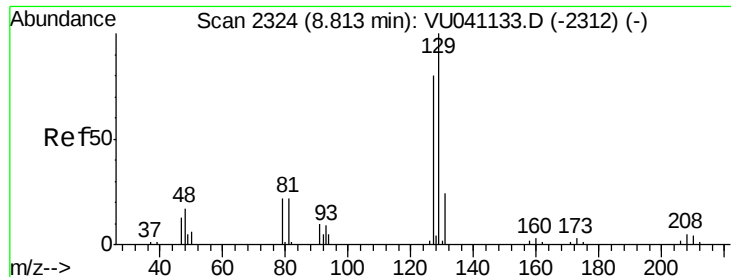
Tot Ion: 97 Resp: 286
 Ion Ratio Lower Upper
 97 100
 99 52.5 45.8 85.2
 83 43.4 67.9 126.1#
 85 0.0 42.8 79.6#



#47
 Tetrachloroethene
 Concen: 52.288 ug/L
 RT: 8.56 min Scan# 2245
 Delta R.T. 0.00 min
 Lab File: VU041141.D
 Acq: 09 Nov 2020 15:24

Tgt Ion: 164 Resp: 166180
 Ion Ratio Lower Upper
 164 100
 129 100.1 70.3 130.7
 131 97.4 70.8 131.4
 166 127.4 92.0 170.8





#49

Dibromochloromethane

Concen: 41.498 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

Instrument :

MSVOA_U

ClientSampleId :

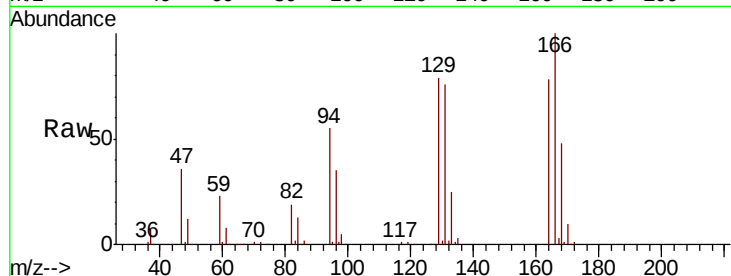
C0AA9

Tot Ion:129 Resp: 164866

Ion Ratio Lower Upper

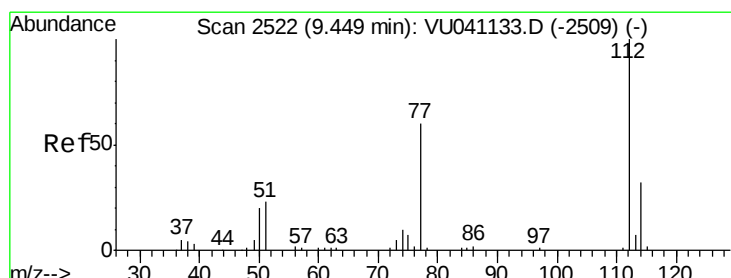
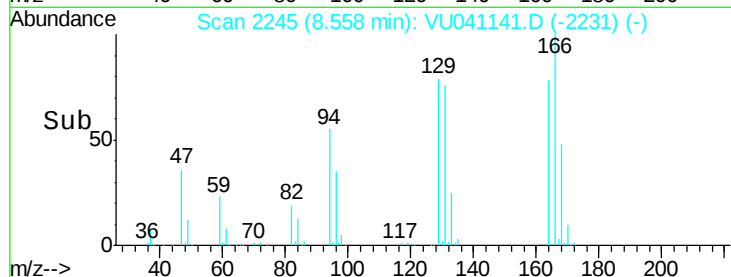
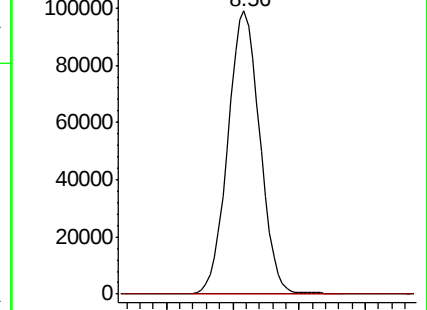
129 100

127 0.2 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#51

Chlorobenzene

Concen: 0.048 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. -0.00 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

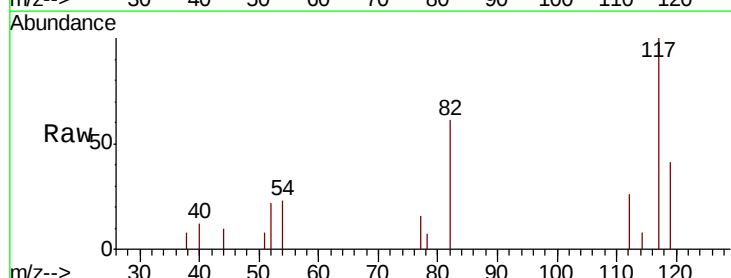
Tgt Ion:112 Resp: 525

Ion Ratio Lower Upper

112 100

114 32.6 22.4 41.6

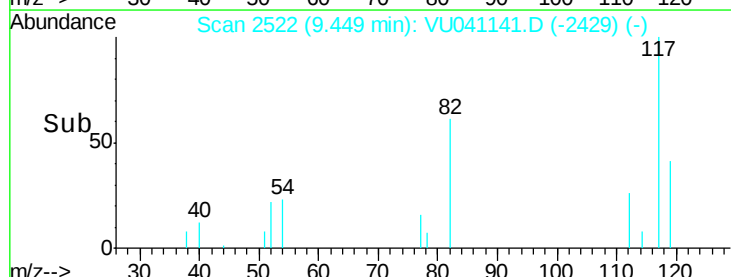
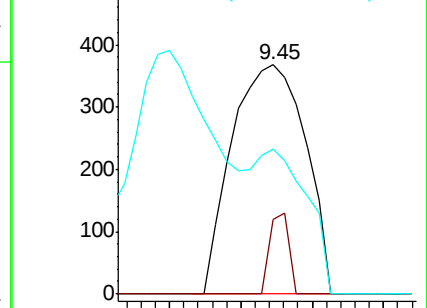
77 63.3 51.2 76.8

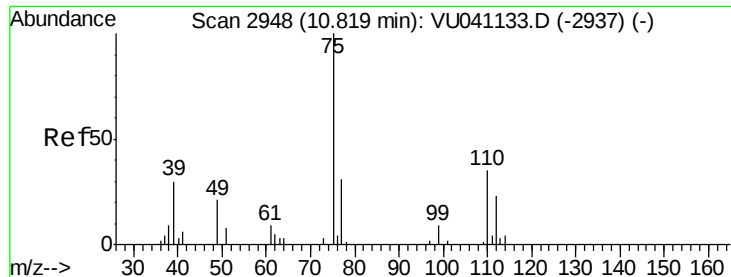


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU





#59

1,2,3-Trichloropropane

Concen: 0.947 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041141.D

Acq: 09 Nov 2020 15:24

Instrument :

MSVOA_U

ClientSampleId :

C0AA9

Tot Ion: 75 Resp: 3245

Ion Ratio Lower Upper

75 100

77 34.9 25.7 38.5

