

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU113020\
 Data File : VU041442.D
 Acq On : 30 Nov 2020 15:41
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005209

Quant Time: Dec 01 01:49:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR113020WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Dec 01 01:39:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	63037	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	62243	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	34126	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	19422	4.39	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.80%
7) Chloroethane-d5	1.92	69	15989	4.73	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.60%
11) 1,1-Dichloroethene-d2	2.58	65	10241	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	96.20%
20) 2-Butanone-d5	4.65	46	58052	42.62	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.24%
24) Chloroform-d	5.08	84	47278	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.00%
26) 1,2-Dichloroethane-d4	5.71	65	29158	4.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.60%
32) Benzene-d6	5.74	84	75327	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.70	67	21897	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.20%
41) Toluene-d8	7.90	98	73406	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
43) trans-1,3-Dichloropropene-	8.18	79	12574	4.99	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.80%
46) 2-Hexanone-d5	8.64	63	43950	45.73	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.46%
56) 1,1,2,2-Tetrachloroethane-	10.76	84	20912	4.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.00%
66) 1,2-Dichlorobenzene-d4	12.19	152	30532	5.01	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	36281	5.245	ug/L	98
3) Chloromethane	1.52	50	24488	4.731	ug/L	100
5) Vinyl chloride	1.61	62	25024	4.690	ug/L	94
6) Bromomethane	1.86	94	16632	5.273	ug/L	99
8) Chloroethane	1.94	64	14970	4.203	ug/L	98
9) Trichlorofluoromethane	2.15	101	54176	5.360	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	24819	5.415	ug/L	97
12) 1,1-Dichloroethene	2.59	96	20467	5.297	ug/L	89
13) Acetone	2.66	43	49452	49.608	ug/L	99
14) Carbon disulfide	2.80	76	58630	5.226	ug/L	98
15) Methyl Acetate	2.97	43	10421	5.144	ug/L	100
16) Methylene chloride	3.06	84	23460	4.816	ug/L	97
17) Methyl tert-butyl Ether	3.38	73	60999	5.145	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	22278	5.500	ug/L	97
19) 1,1-Dichloroethane	3.89	63	40122	4.811	ug/L	96
21) 2-Butanone	4.73	43	64118	44.403	ug/L	95
22) cis-1,2-Dichloroethene	4.68	96	23593	5.248	ug/L	91

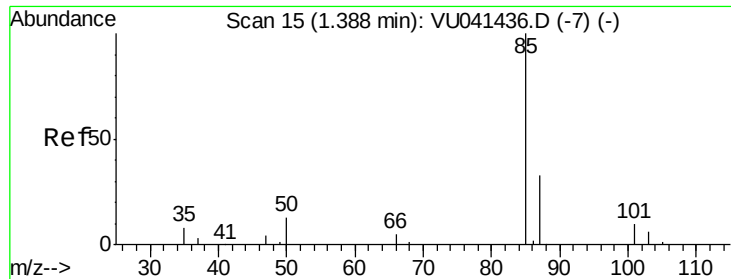
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU113020\
 Data File : VU041442.D
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 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Dec 01 01:39:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	11216	5.014	ug/L	92
25) Chloroform	5.10	83	48751	4.954	ug/L	99
27) 1,2-Dichloroethane	5.81	62	36611	4.955	ug/L	99
29) 1,1,1-Trichloroethane	5.33	97	47231	5.310	ug/L	98
30) Cyclohexane	5.40	56	31188	4.908	ug/L	92
31) Carbon tetrachloride	5.54	117	44193	5.458	ug/L	99
33) Benzene	5.78	78	87083	4.986	ug/L	100
34) Trichloroethene	6.55	95	25141	5.223	ug/L	98
35) Methylcyclohexane	6.77	83	35002	5.289	ug/L	92
37) 1,2-Dichloropropane	6.80	63	21092	4.749	ug/L	99
38) Bromodichloromethane	7.11	83	36332	5.156	ug/L	99
39) cis-1,3-Dichloropropene	7.61	75	36043	5.165	ug/L	96
40) 4-Methyl-2-pentanone	7.80	43	153329	47.164	ug/L	97
42) Toluene	7.97	91	99083	5.262	ug/L	100
44) trans-1,3-Dichloropropene	8.21	75	34904	5.081	ug/L	97
45) 1,1,2-Trichloroethane	8.40	97	17797	5.060	ug/L	97
47) Tetrachloroethene	8.56	164	19290	5.385	ug/L	97
48) 2-Hexanone	8.69	43	113283	45.527	ug/L	98
49) Dibromochloromethane	8.81	129	24645	5.131	ug/L	98
50) 1,2-Dibromoethane	8.93	107	17708	5.157	ug/L	94
51) Chlorobenzene	9.45	112	65269	5.327	ug/L	97
52) Ethylbenzene	9.57	91	111408	5.231	ug/L	98
53) m,p-Xylene	9.69	106	41017	5.340	ug/L	92
54) o-Xylene	10.10	106	40305	5.433	ug/L	94
55) Styrene	10.11	104	71376	5.464	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.78	83	22993	4.931	ug/L	98
59) Bromoform	10.29	173	15038	5.405	ug/L	96
60) Isopropylbenzene	10.48	105	113407	5.384	ug/L	99
61) 1,2,3-Trichloropropane	10.82	75	18798	5.133	ug/L	97
62) 1,3,5-Trimethylbenzene	11.09	105	99185	5.503	ug/L	99
63) 1,2,4-Trimethylbenzene	11.47	105	102053	5.578	ug/L	99
64) 1,3-Dichlorobenzene	11.74	146	57430	5.475	ug/L	97
65) 1,4-Dichlorobenzene	11.83	146	58284	5.484	ug/L	99
67) 1,2-Dichlorobenzene	12.21	146	54372	5.300	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.99	75	5028	5.023	ug/L	96
69) 1,3,5-Trichlorobenzene	13.21	180	43365	5.446	ug/L	99
70) 1,2,4-trichlorobenzene	13.83	180	34909	5.269	ug/L	99
71) Naphthalene	14.08	128	57388	5.235	ug/L	98
72) 1,2,3-Trichlorobenzene	14.32	180	33673	5.666	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 5.245 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

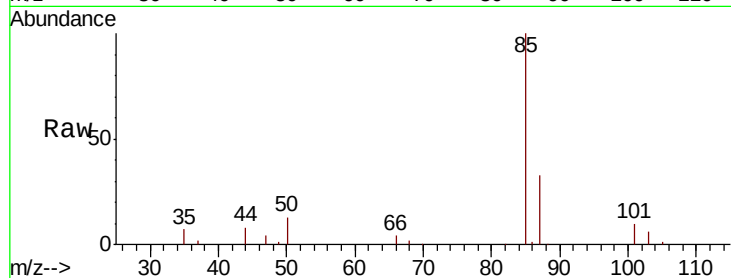
VSTD005209

Tot Ion: 85 Resp: 36281

Ion Ratio Lower Upper

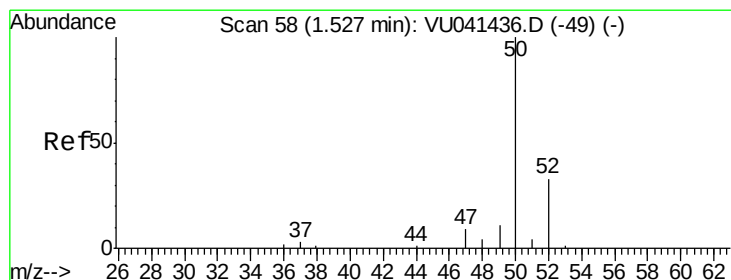
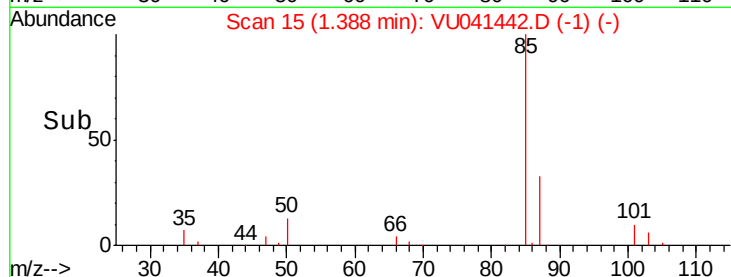
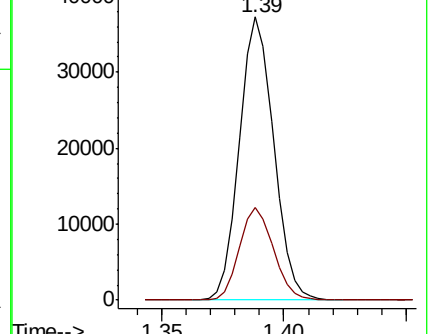
85 100

87 32.5 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 4.731 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041442.D

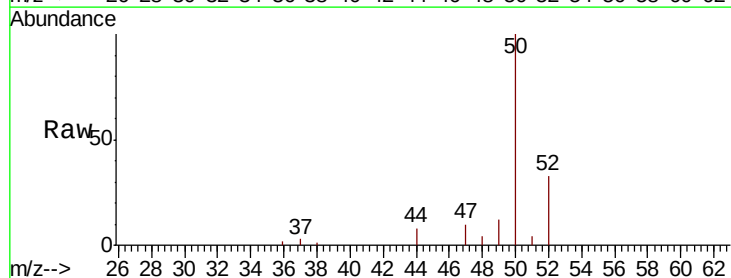
Acq: 30 Nov 2020 15:41

Tgt Ion: 50 Resp: 24488

Ion Ratio Lower Upper

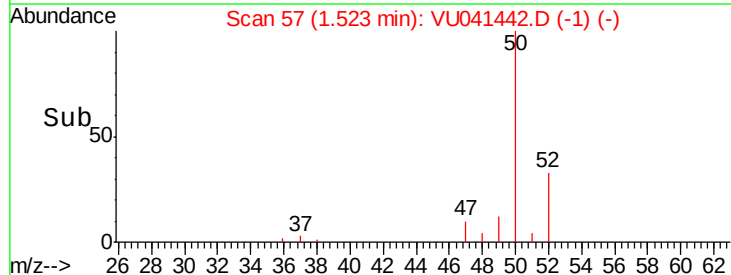
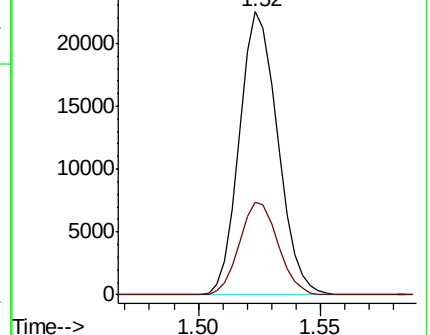
50 100

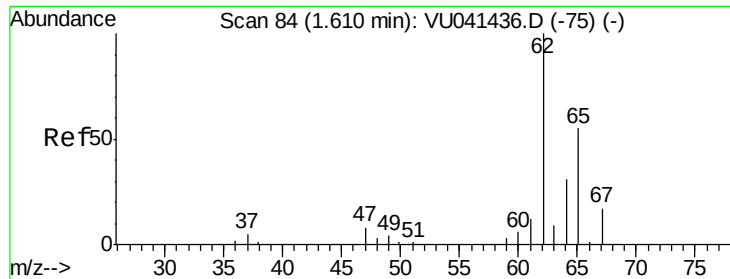
52 32.8 22.9 42.5



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 4.690 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

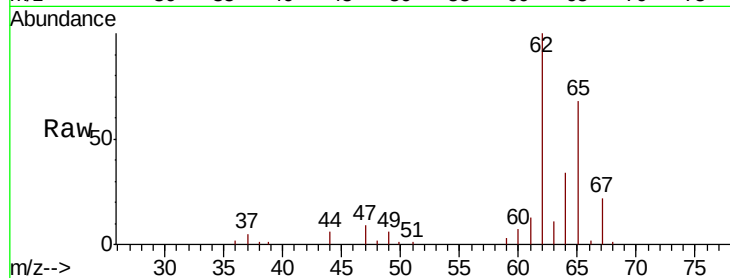
VSTD005209

Tot Ion: 62 Resp: 25024

Ion Ratio Lower Upper

62 100

64 34.5 22.0 40.8



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0

1.61

25000

20000

15000

10000

5000

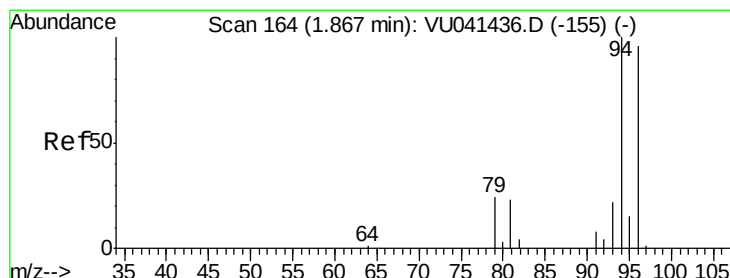
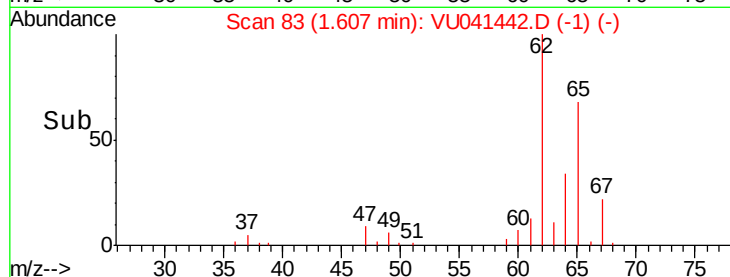
0

Time-->

1.55

1.60

1.65



#6

Bromomethane

Concen: 5.273 ug/L

RT: 1.86 min Scan# 163

Delta R.T. -0.00 min

Lab File: VU041442.D

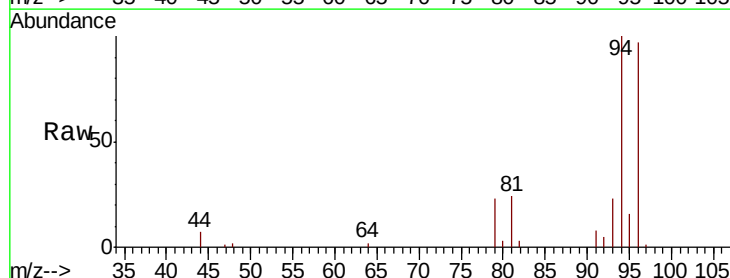
Acq: 30 Nov 2020 15:41

Tgt Ion: 94 Resp: 16632

Ion Ratio Lower Upper

94 100

96 97.5 67.5 125.3



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

1.86

15000

10000

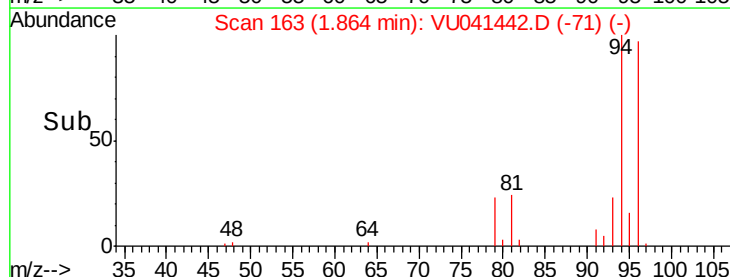
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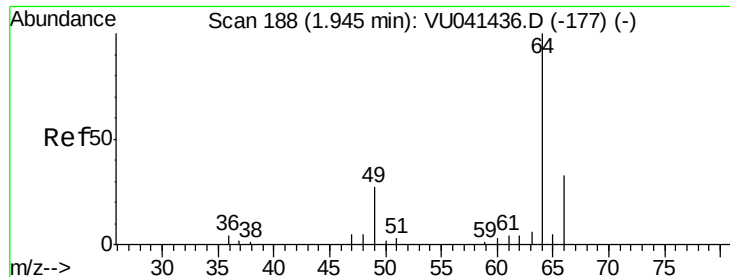
0

Time-->

1.85

1.90





#8

Chloroethane

Concen: 4.203 ug/L

RT: 1.94 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

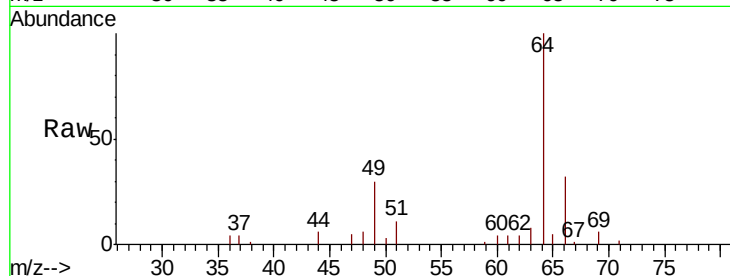
VSTD005209

Tot Ion: 64 Resp: 14970

Ion Ratio Lower Upper

64 100

66 32.0 23.0 42.8



Abundance Ion 64.10 (63.80 to 64.80): VU041436.D (-177) (-)

Ion 66.05 (65.75 to 66.75): VU041436.D (-177) (-)

1.94

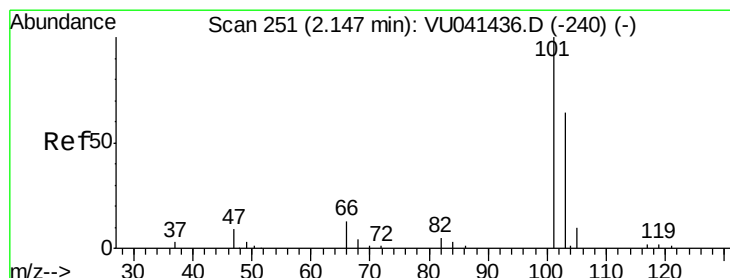
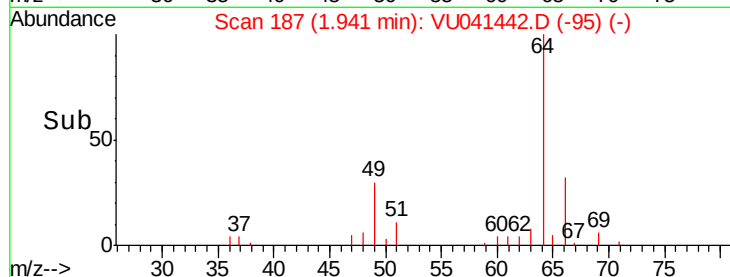
10000

5000

0

1.90 1.95 2.00

Time-->



#9

Trichlorofluoromethane

Concen: 5.360 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU041442.D

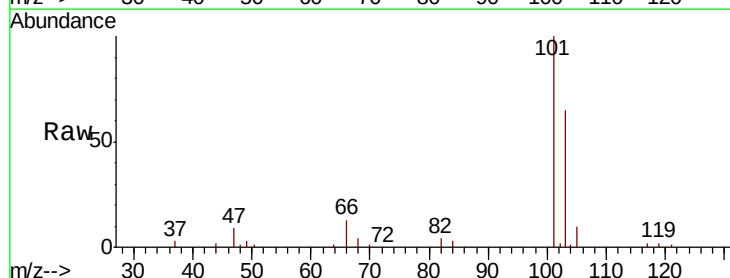
Acq: 30 Nov 2020 15:41

Tgt Ion:101 Resp: 54176

Ion Ratio Lower Upper

101 100

103 64.2 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): VU041436.D (-240) (-)

Ion 103.00 (102.70 to 103.70): VU041436.D (-240) (-)

2.15

40000

30000

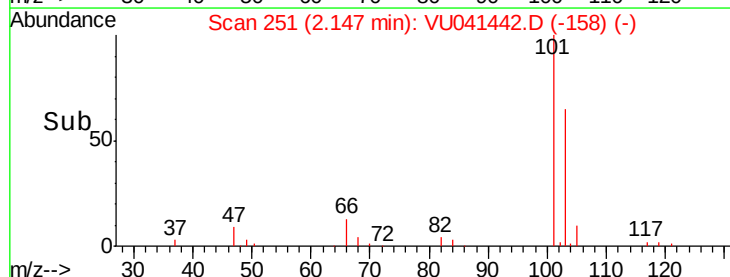
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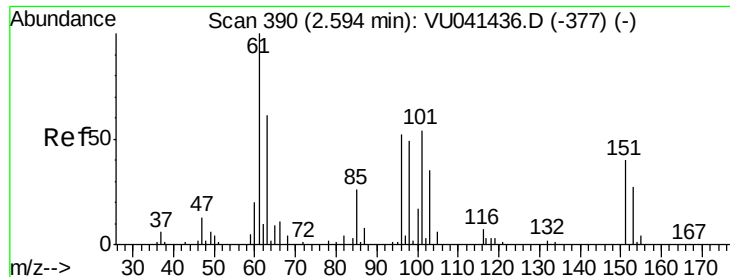
10000

0

2.10 2.15 2.20

Time-->





#10

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

Concen: 5.415 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD005209

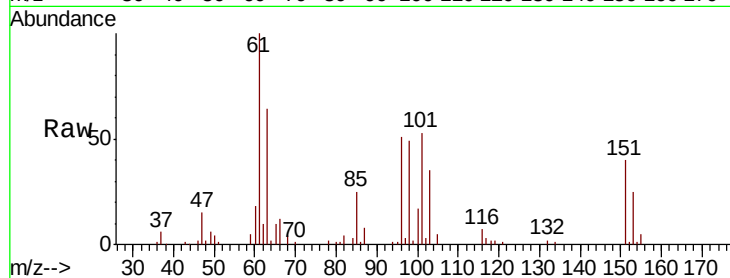
Tot Ion:101 Resp: 24819

Ion Ratio Lower Upper

101 100

85 47.4 39.4 59.0

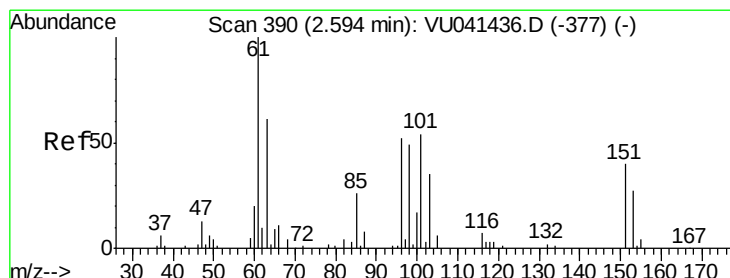
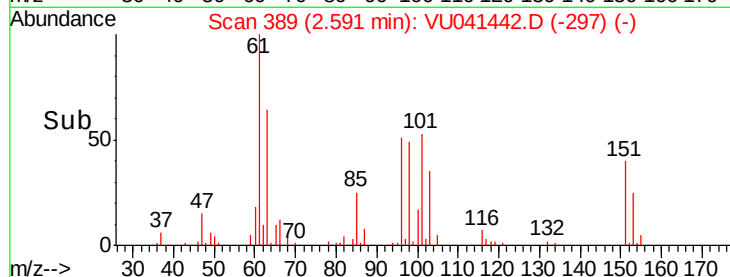
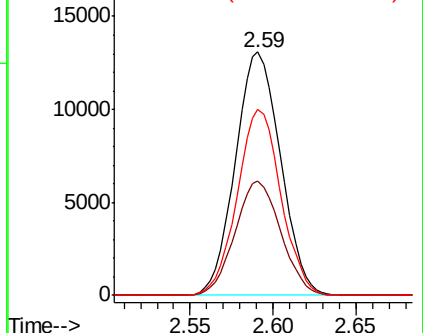
151 73.8 60.7 91.1



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: 5.297 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.01 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

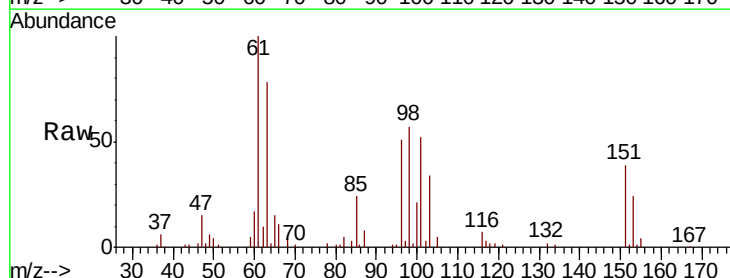
Tgt Ion: 96 Resp: 20467

Ion Ratio Lower Upper

96 100

61 195.0 133.3 247.7

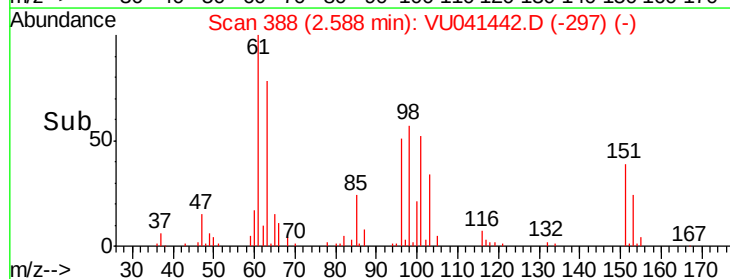
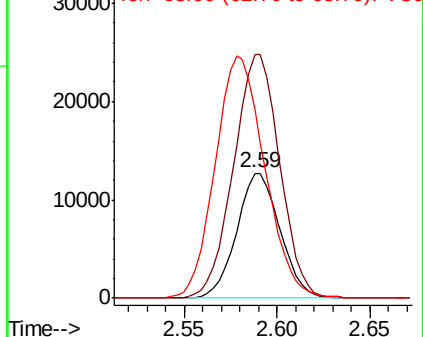
63 151.1 86.6 160.8

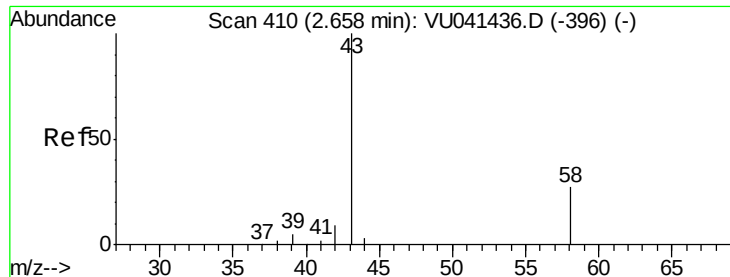


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 49.608 ug/L

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

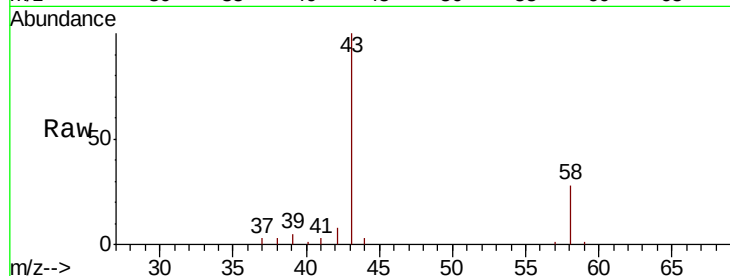
VSTD005209

Tot Ion: 43 Resp: 49452

Ion Ratio Lower Upper

43 100

58 28.1 0.0 54.8



Abundance Ion 43.05 (42.75 to 43.75): VU041436.D (-396) (-)

Ion 58.05 (57.75 to 58.75): VU041436.D (-396) (-)

2.66

15000

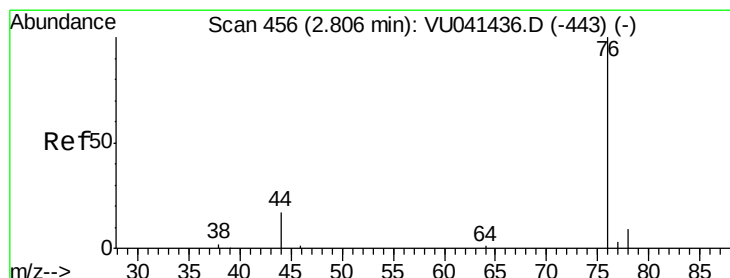
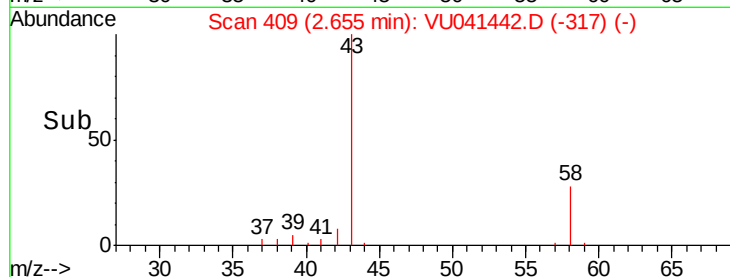
10000

5000

0

Time-->

2.60 2.70



#14

Carbon disulfide

Concen: 5.226 ug/L

RT: 2.80 min Scan# 455

Delta R.T. -0.00 min

Lab File: VU041442.D

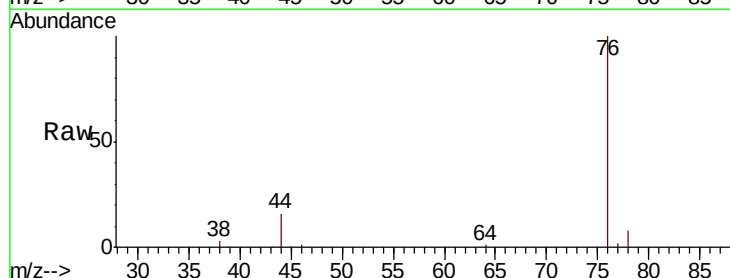
Acq: 30 Nov 2020 15:41

Tgt Ion: 76 Resp: 58630

Ion Ratio Lower Upper

76 100

78 8.2 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU041436.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU041436.D (-443) (-)

2.80

40000

30000

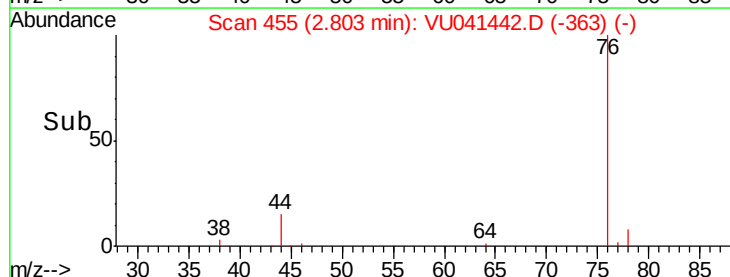
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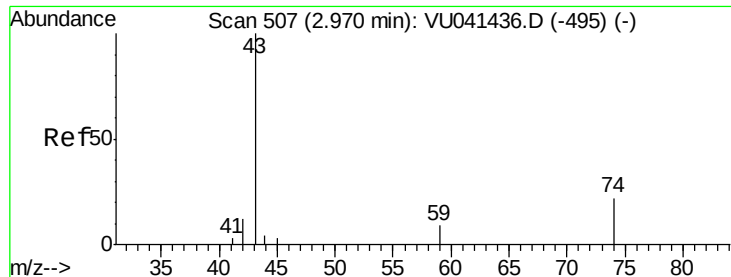
10000

0

Time-->

2.75 2.80 2.85 2.90

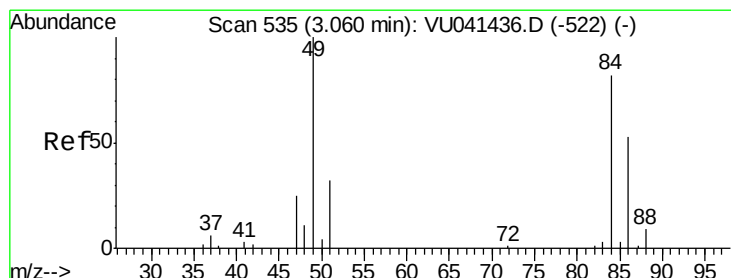
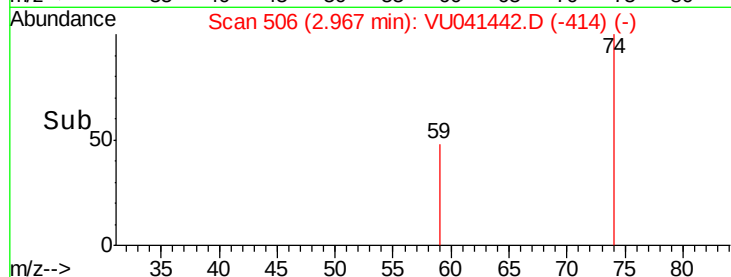
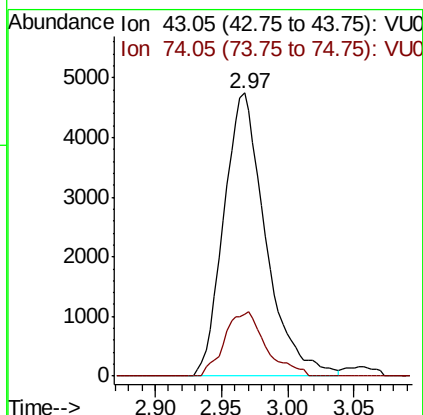
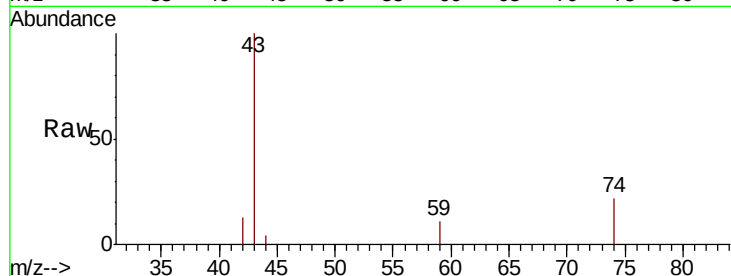




#15
Methvl Acetate
Concen: 5.144 ug/L
RT: 2.97 min Scan# 506
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

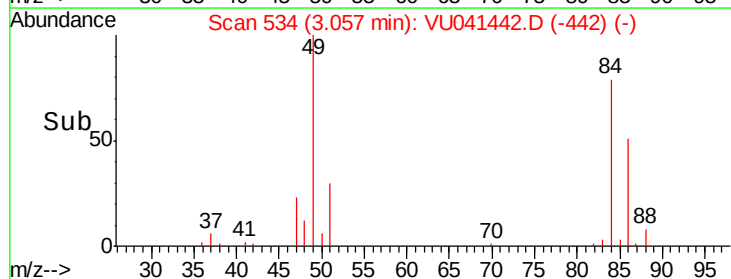
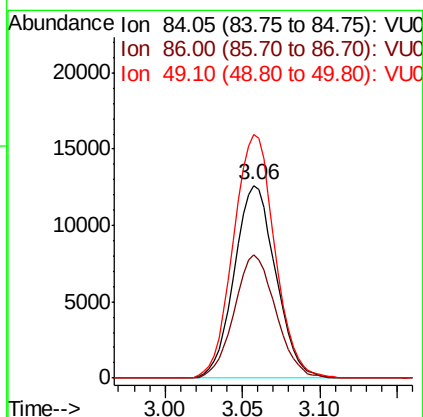
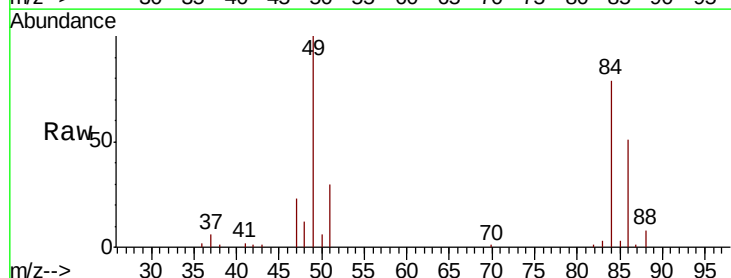
Instrument :
MSVOA_U
ClientSampled :
VSTD005209

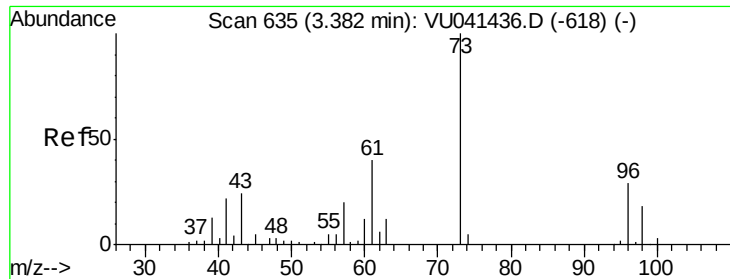
Tot Ion: 43 Resp: 10421
Ion Ratio Lower Upper
43 100
74 22.4 17.8 26.6



#16
Methylene chloride
Concen: 4.816 ug/L
RT: 3.06 min Scan# 534
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Tgt Ion: 84 Resp: 23460
Ion Ratio Lower Upper
84 100
86 64.1 44.8 83.2
49 126.5 85.3 158.3

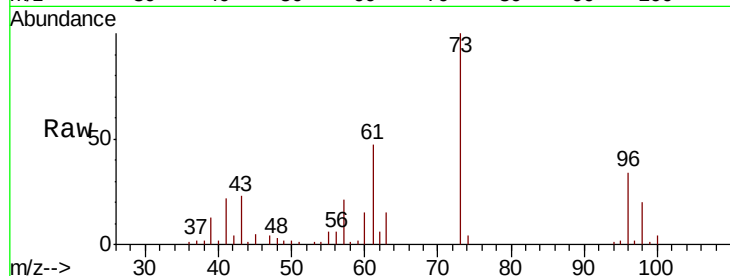




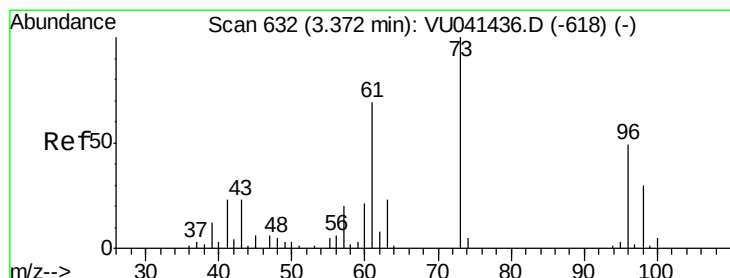
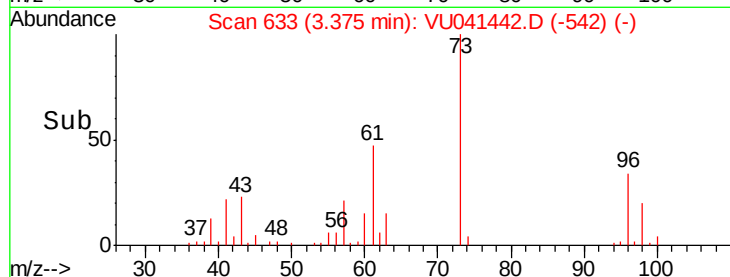
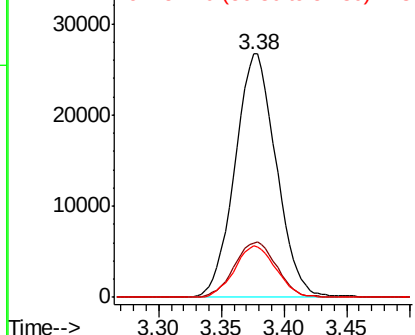
#17
Methyl tert-butyl Ether
Concen: 5.145 ug/L
RT: 3.38 min Scan# 633
Delta R.T. -0.01 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD005209

Tot Ion: 73 Resp: 60999
Ion Ratio Lower Upper
73 100
43 23.4 19.2 28.8
57 21.0 16.5 24.7

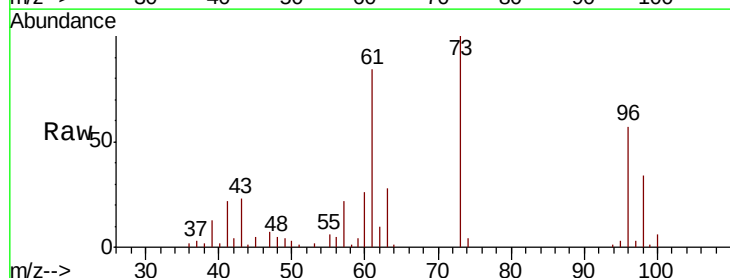


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

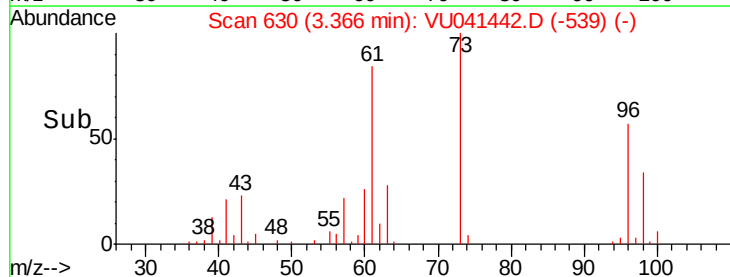
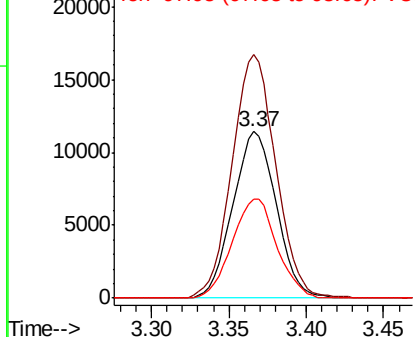


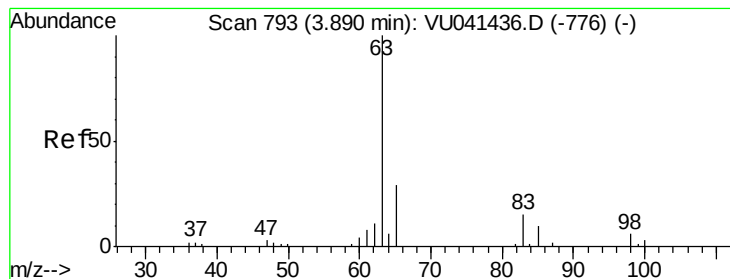
#18
trans-1,2-Dichloroethene
Concen: 5.500 ug/L
RT: 3.37 min Scan# 630
Delta R.T. -0.01 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Tgt Ion: 96 Resp: 22278
Ion Ratio Lower Upper
96 100
61 146.1 100.0 185.6
98 59.2 42.6 79.2



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: 4.811 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD005209

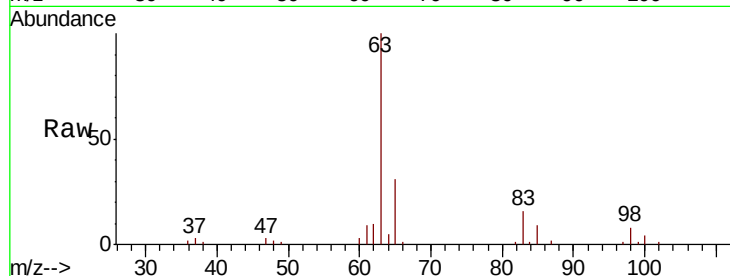
Tot Ion: 63 Resp: 40122

Ion Ratio Lower Upper

63 100

65 31.3 20.2 37.6

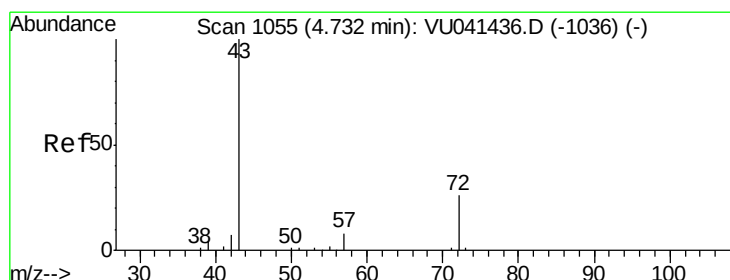
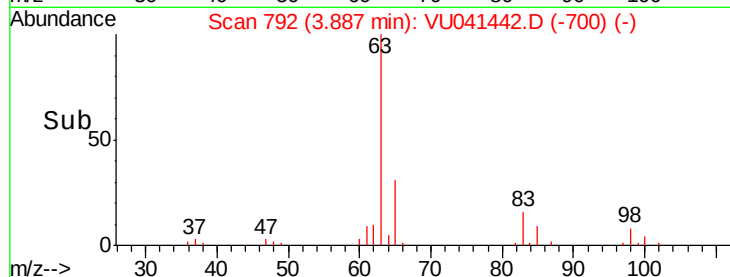
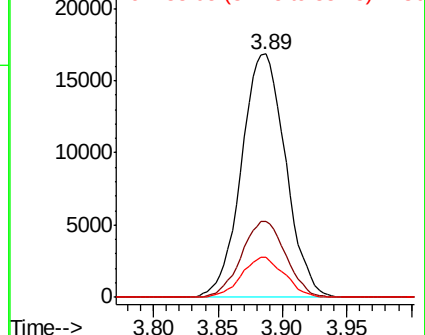
83 16.3 10.8 20.0



Abundance Ion 63.10 (62.80 to 63.80): VU041436.D (-776) (-)

Ion 65.10 (64.80 to 65.80): VU041436.D (-776) (-)

Ion 83.05 (82.75 to 83.75): VU041436.D (-776) (-)



#21

2-Butanone

Concen: 44.403 ug/L

RT: 4.73 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VU041442.D

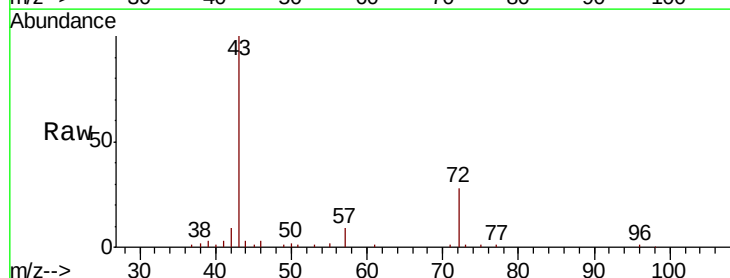
Acq: 30 Nov 2020 15:41

Tgt Ion: 43 Resp: 64118

Ion Ratio Lower Upper

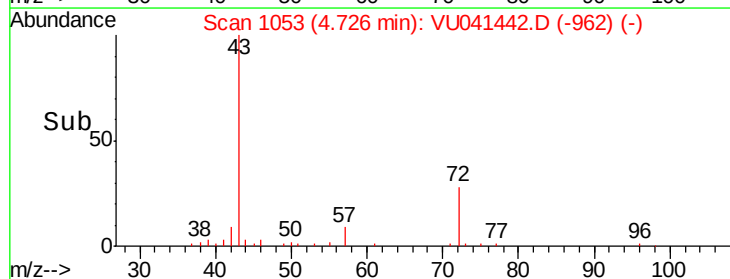
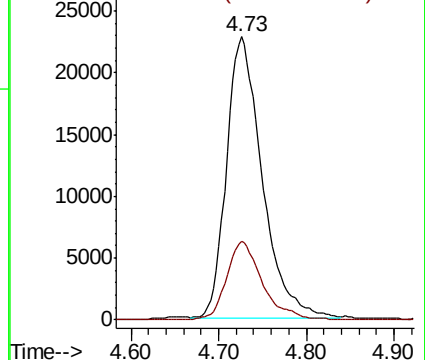
43 100

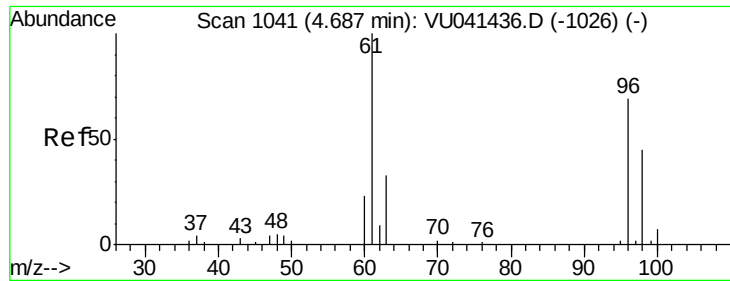
72 28.0 12.9 38.6



Abundance Ion 43.05 (42.75 to 43.75): VU041436.D (-1036) (-)

Ion 72.10 (71.80 to 72.80): VU041436.D (-1036) (-)





#22

cis-1,2-Dichloroethene

Concen: 5.248 ug/L

RT: 4.68 min Scan# 1039

Delta R.T. -0.01 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD005209

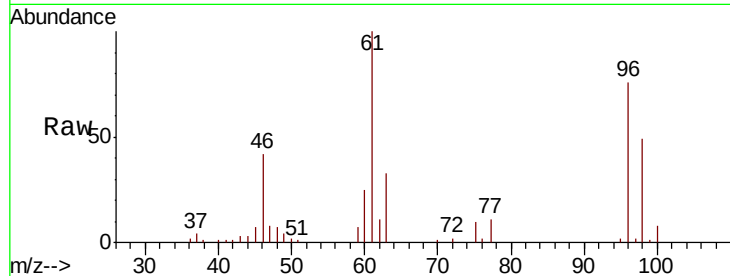
Tot Ion: 96 Resp: 23593

Ion Ratio Lower Upper

96 100

61 130.9 102.2 189.8

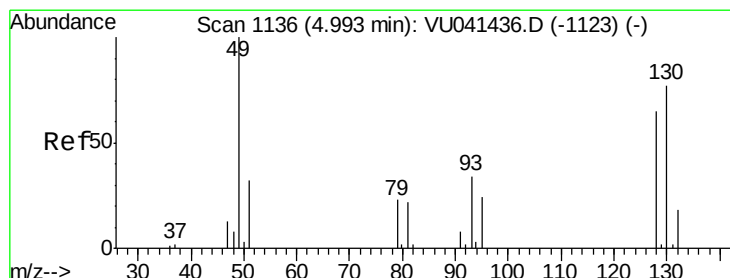
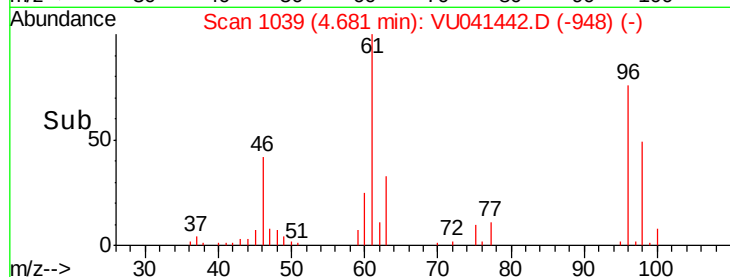
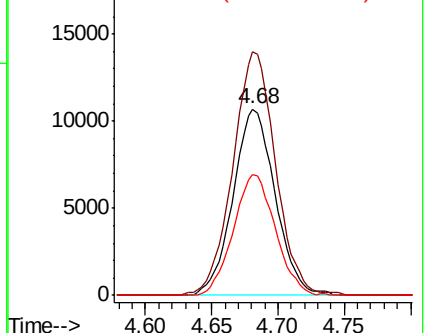
98 64.6 45.6 84.6



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 98.00 (97.70 to 98.70): VU0



#23

Bromochloromethane

Concen: 5.014 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Tgt Ion: 128 Resp: 11216

Ion Ratio Lower Upper

128 100

49 147.4 110.3 204.9

130 129.6 84.4 156.8

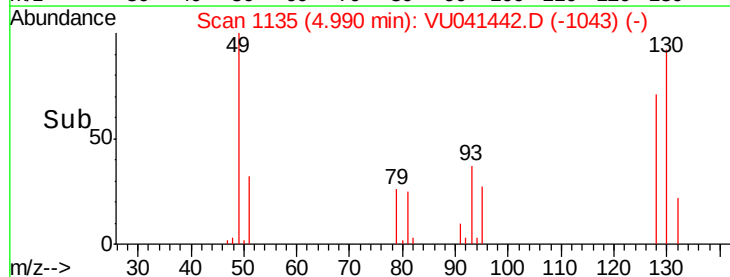
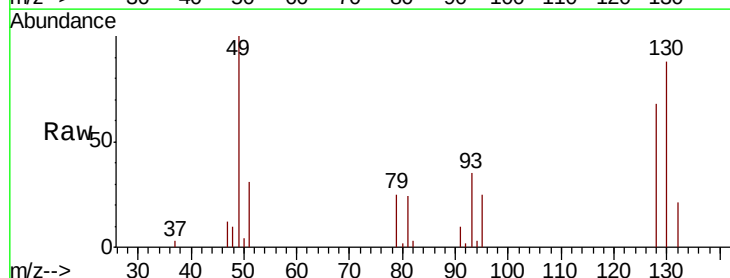
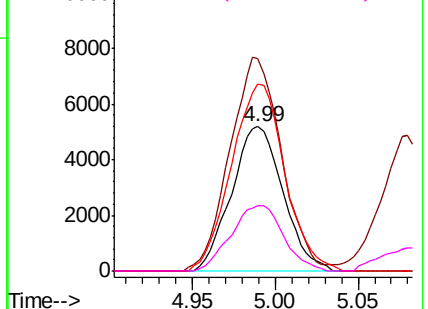
51 45.0 39.3 58.9

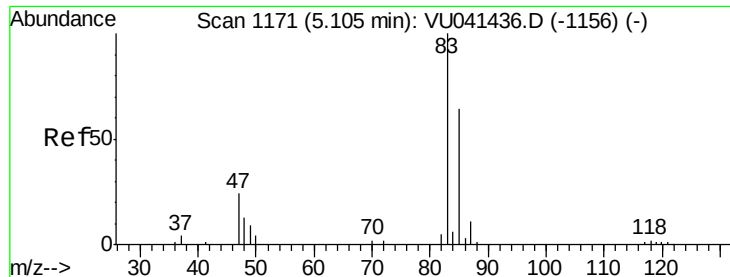
Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

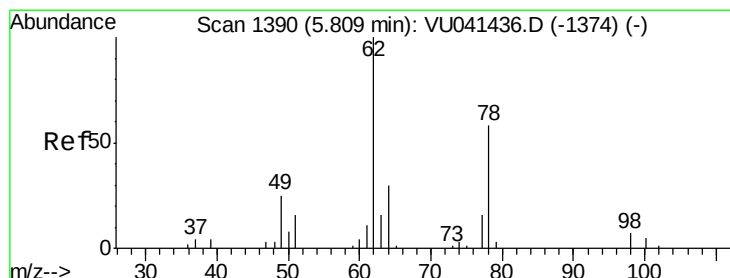
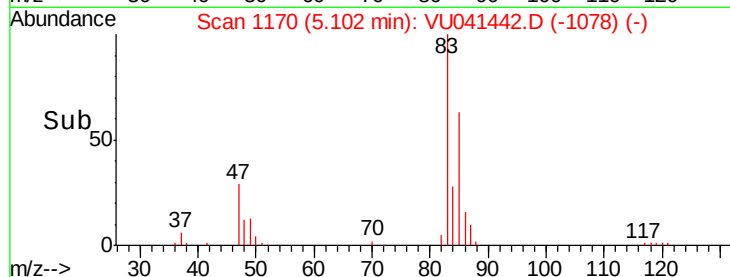
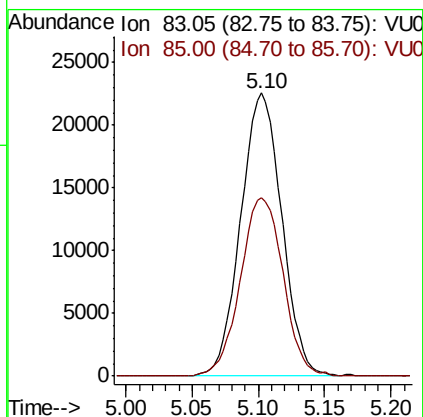
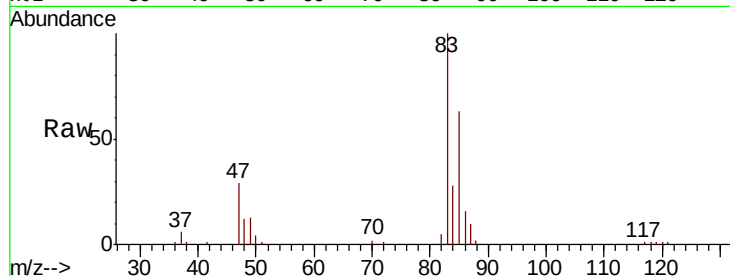




#25
Chloroform
Concen: 4.954 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

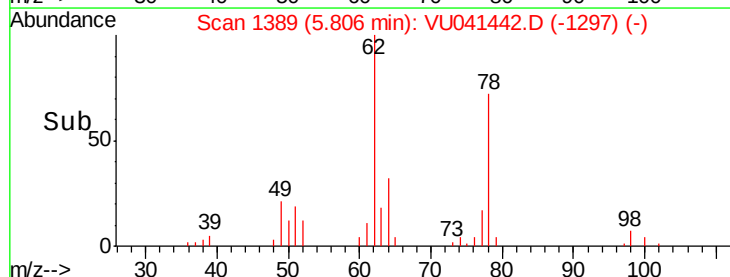
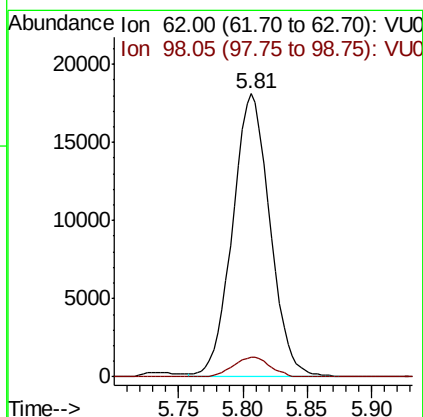
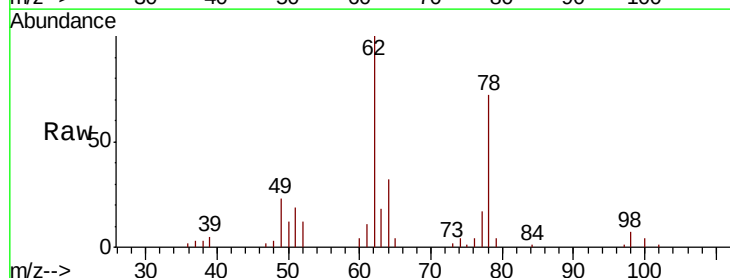
Instrument :
MSVOA_U
ClientSampleId :
VSTD005209

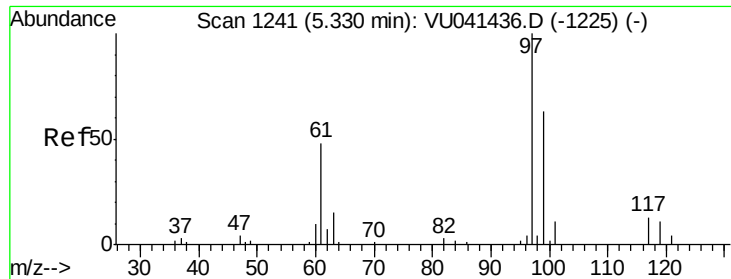
Tot Ion: 83 Resp: 48751
Ion Ratio Lower Upper
83 100
85 63.0 44.6 82.8



#27
1,2-Dichloroethane
Concen: 4.955 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Tgt Ion: 62 Resp: 36611
Ion Ratio Lower Upper
62 100
98 7.2 5.4 8.0

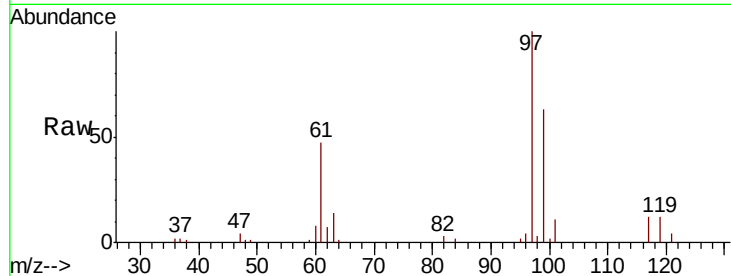




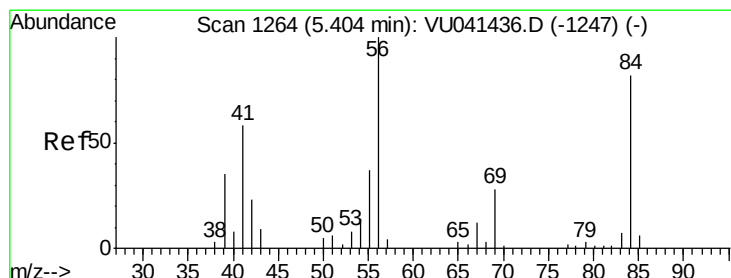
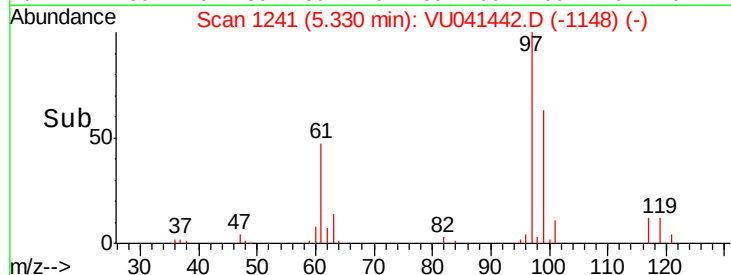
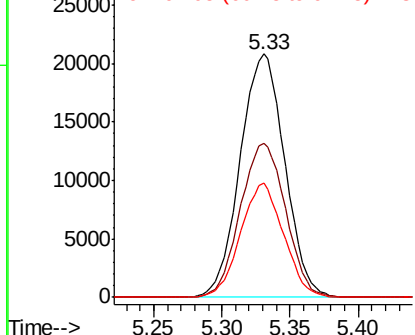
#29
1,1,1-Trichloroethane
Concen: 5.310 ug/L
RT: 5.33 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD005209

Tot Ion: 97 Resp: 47231
Ion Ratio Lower Upper
97 100
99 64.2 51.0 76.6
61 45.0 38.1 57.1

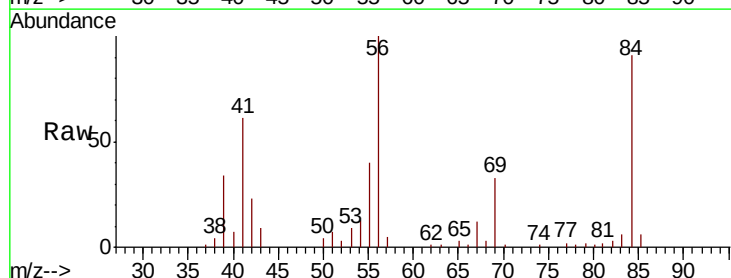


Abundance Ion 96.95 (96.65 to 97.65): VU0
Ion 99.05 (98.75 to 99.75): VU0
Ion 61.05 (60.75 to 61.75): VU0

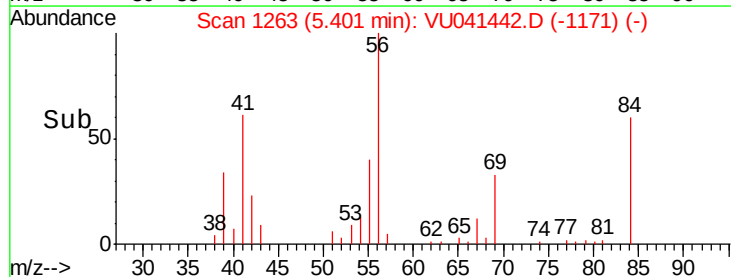
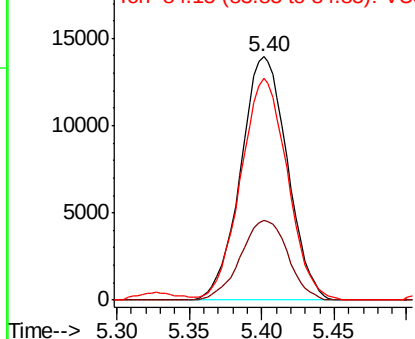


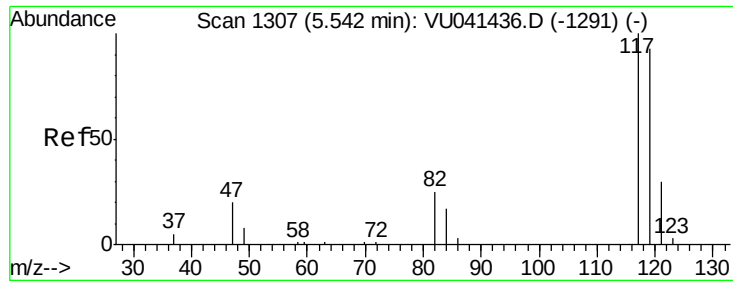
#30
Cyclohexane
Concen: 4.908 ug/L
RT: 5.40 min Scan# 1263
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Tgt Ion: 56 Resp: 31188
Ion Ratio Lower Upper
56 100
69 33.3 23.2 34.8
84 91.7 67.8 101.6



Abundance Ion 56.10 (55.80 to 56.80): VU0
Ion 69.15 (68.85 to 69.85): VU0
Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 5.458 ug/L

RT: 5.54 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

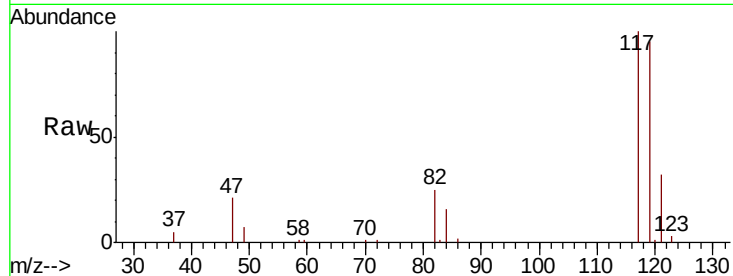
VSTD005209

Tot Ion:117 Resp: 44193

Ion Ratio Lower Upper

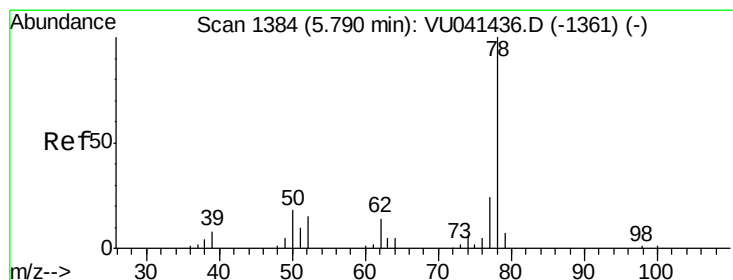
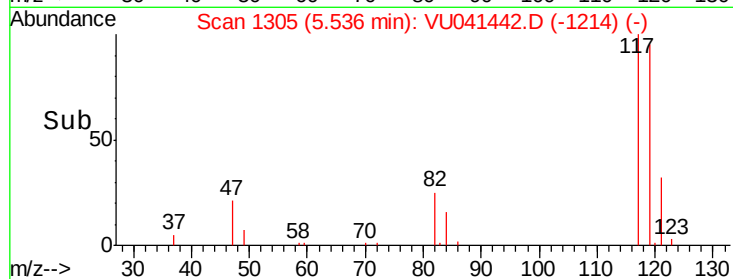
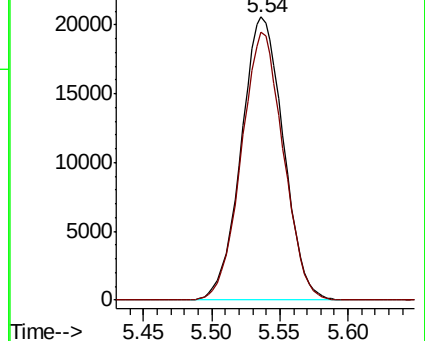
117 100

119 93.8 75.8 113.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.986 ug/L

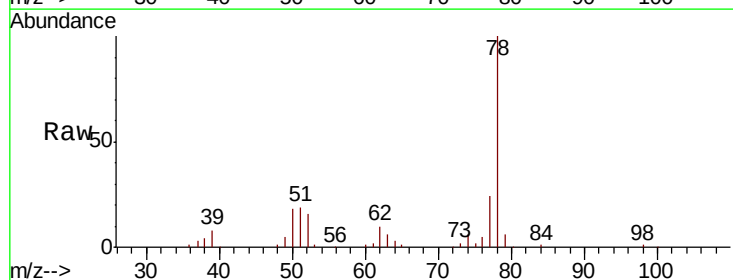
RT: 5.78 min Scan# 1382

Delta R.T. -0.01 min

Lab File: VU041442.D

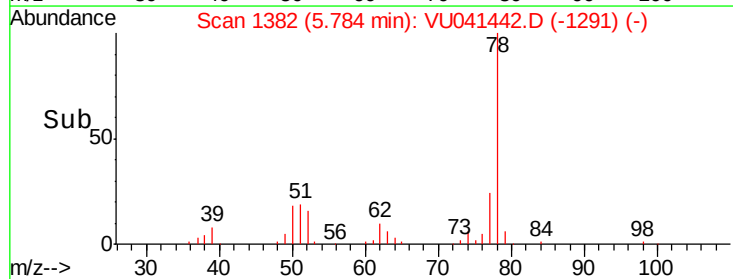
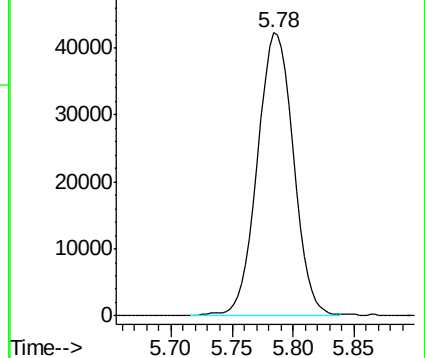
Acq: 30 Nov 2020 15:41

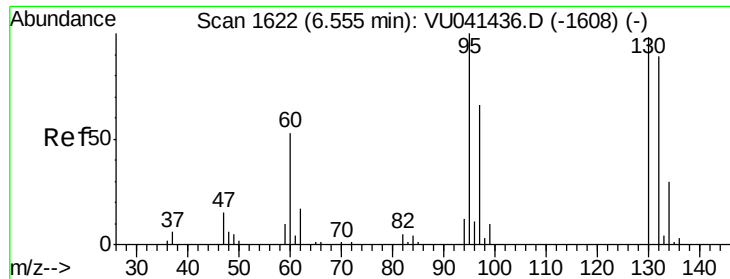
Tgt Ion: 78 Resp: 87083



Abundance Ion 78.10 (77.80 to 78.80): VU0

5.78





#34

Trichloroethene

Concen: 5.223 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD005209

Tot Ion: 95 Resp: 25141

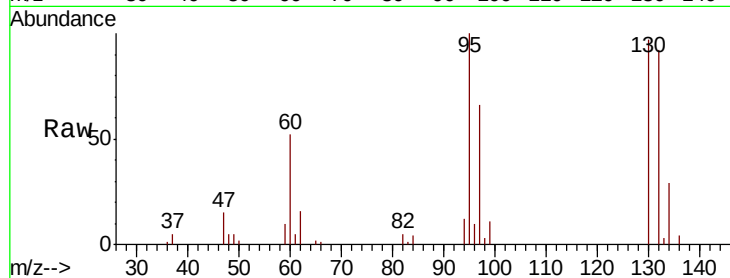
Ion Ratio Lower Upper

95 100

97 65.7 46.4 86.2

132 92.2 62.2 115.6

130 96.8 68.7 127.5

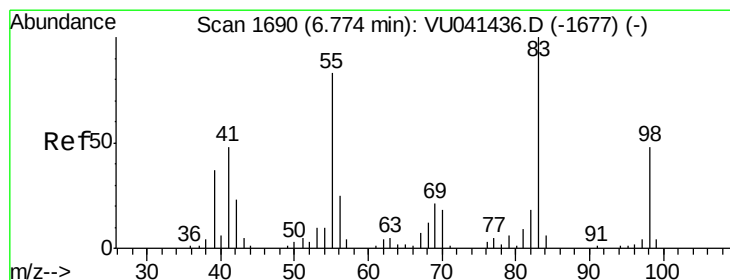
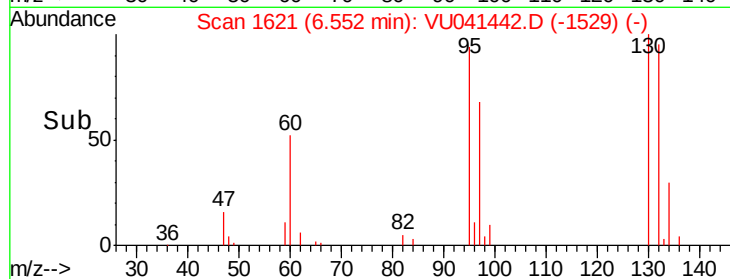
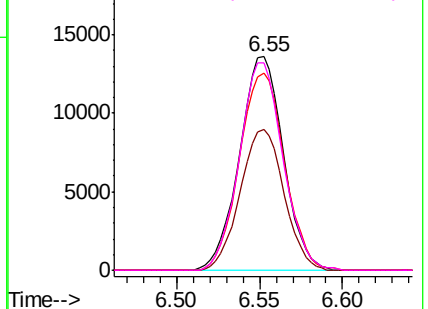


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 5.289 ug/L

RT: 6.77 min Scan# 1690

Delta R.T. 0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

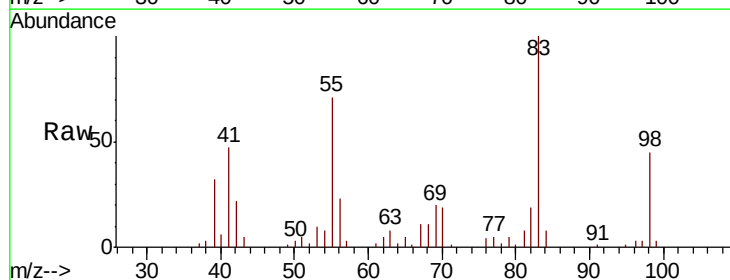
Tgt Ion: 83 Resp: 35002

Ion Ratio Lower Upper

83 100

55 74.4 67.0 100.6

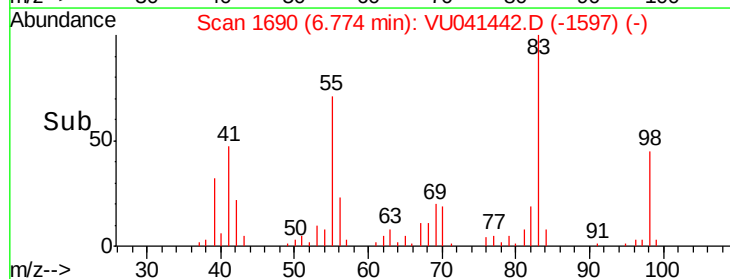
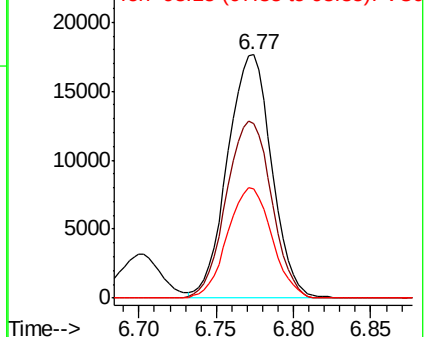
98 45.6 38.2 57.4

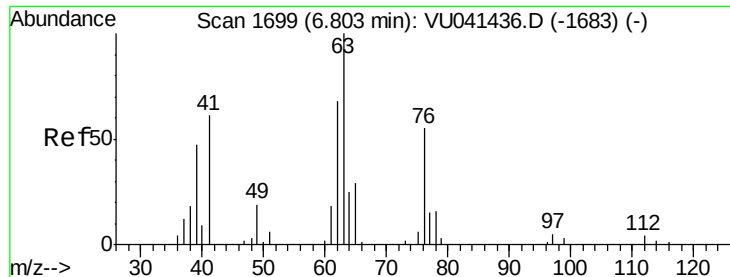


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

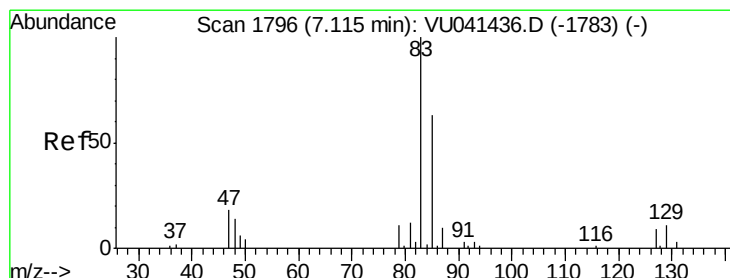
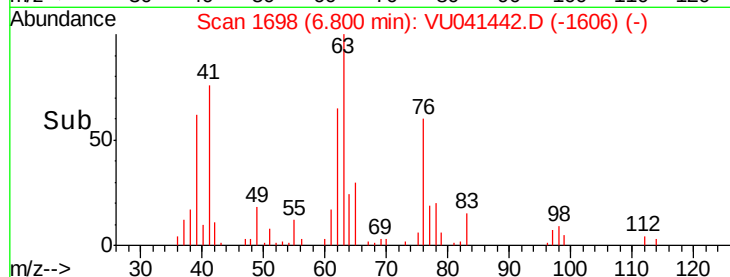
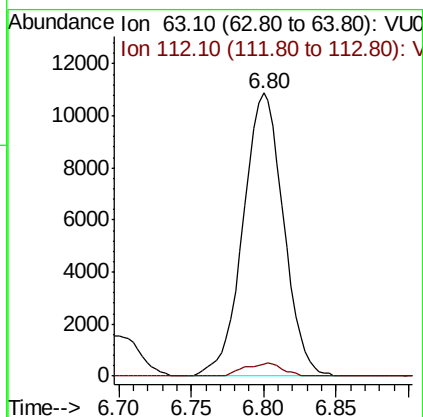
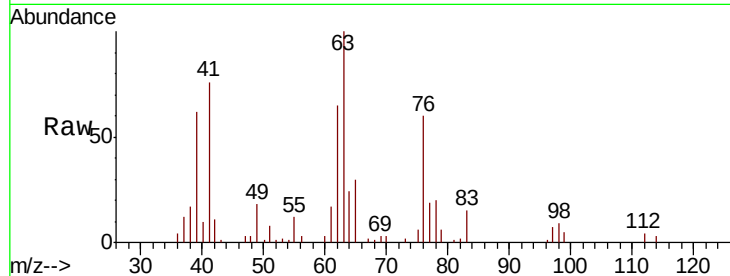




#37
 1,2-Dichloropropane
 Concen: 4.749 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

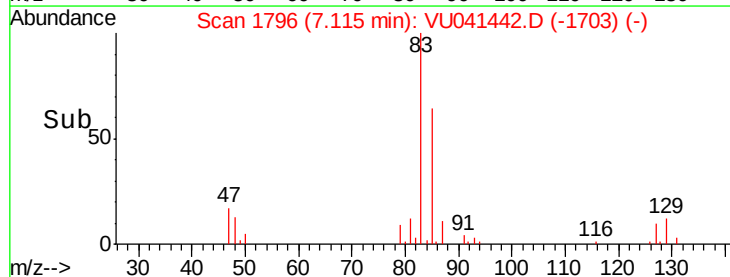
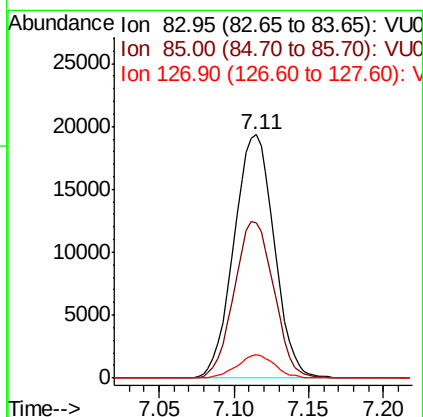
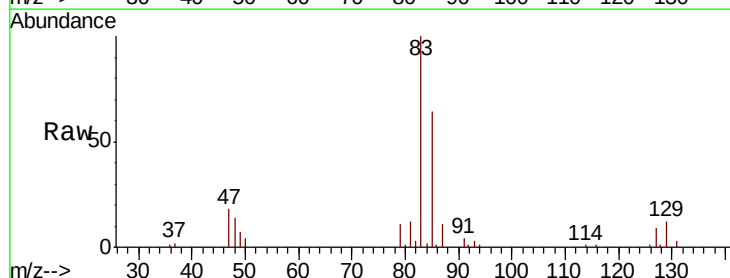
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005209

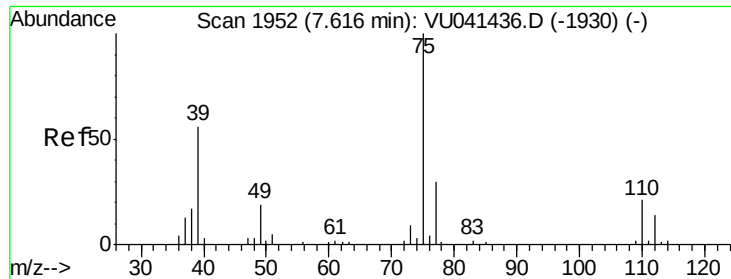
Tot Ion: 63 Resp: 21092
 Ion Ratio Lower Upper
 63 100
 112 4.3 3.2 4.8



#38
 Bromodichloromethane
 Concen: 5.156 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

Tgt Ion: 83 Resp: 36332
 Ion Ratio Lower Upper
 83 100
 85 64.0 44.2 82.2
 127 9.5 7.0 10.6



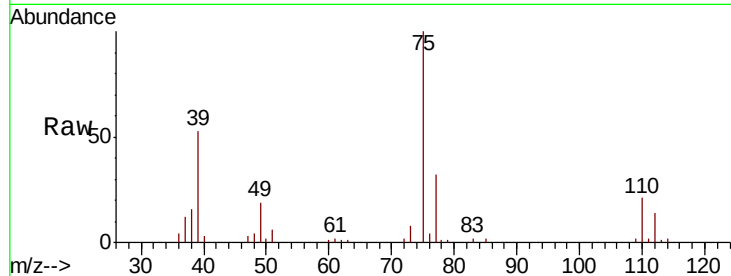


#39

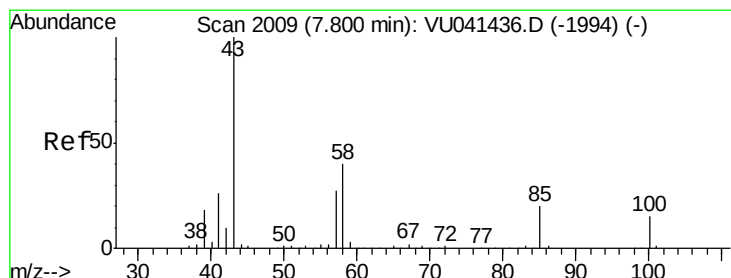
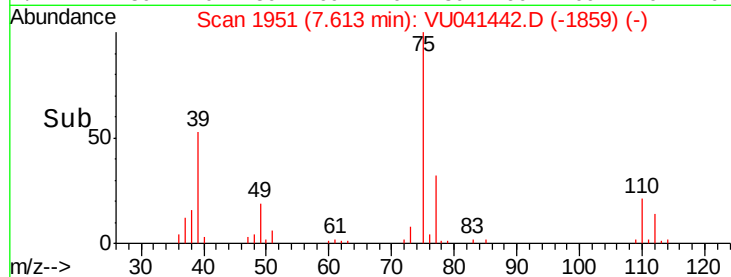
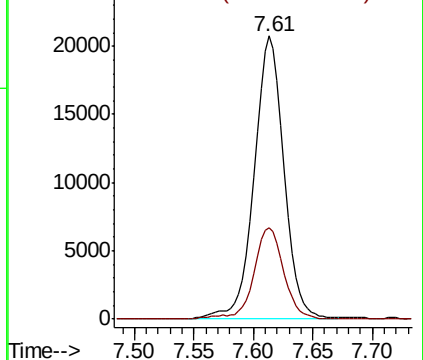
cis-1,3-Dichloropropene
Concen: 5.165 ug/L
RT: 7.61 min Scan# 1951
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD005209

Tot Ion: 75 Resp: 36043
Ion Ratio Lower Upper
75 100
77 32.1 21.0 39.0



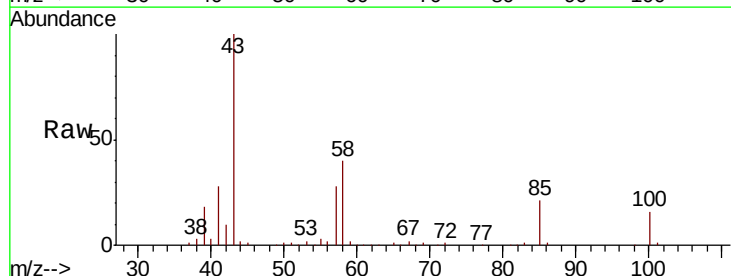
Abundance Ion 75.05 (74.75 to 75.75): VU041436.D (-1930) (-)
Ion 77.05 (76.75 to 77.75): VU041436.D (-1930) (-)



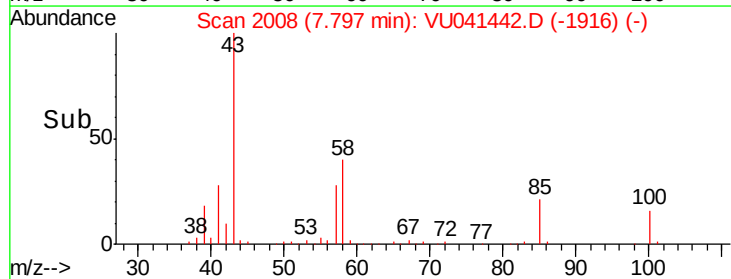
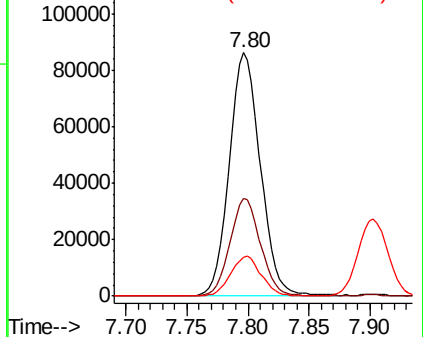
#40

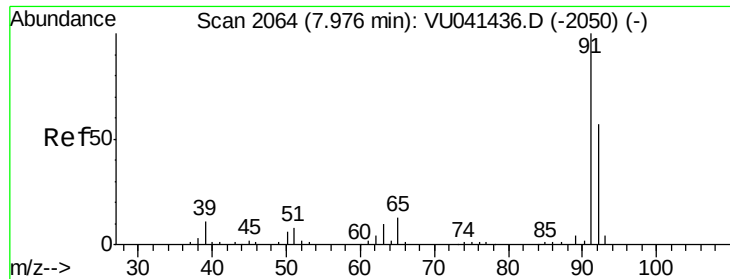
4-Methyl-2-pentanone
Concen: 47.164 ug/L
RT: 7.80 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Tgt Ion: 43 Resp: 153329
Ion Ratio Lower Upper
43 100
58 39.6 30.5 45.7
100 16.2 12.1 18.1



Abundance Ion 43.05 (42.75 to 43.75): VU041436.D (-1994) (-)
Ion 58.05 (57.75 to 58.75): VU041436.D (-1994) (-)
Ion 100.15 (99.85 to 100.85): VU041436.D (-1994) (-)





#42

Toluene

Concen: 5.262 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

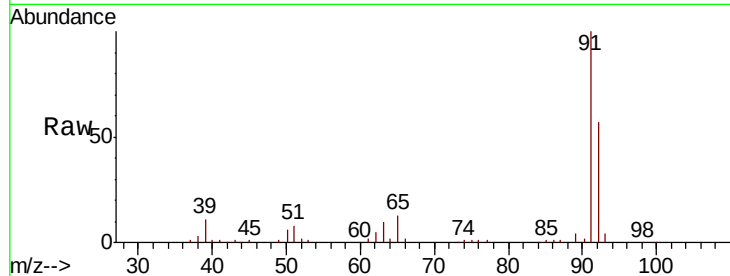
VSTD005209

Tot Ion: 91 Resp: 99083

Ion Ratio Lower Upper

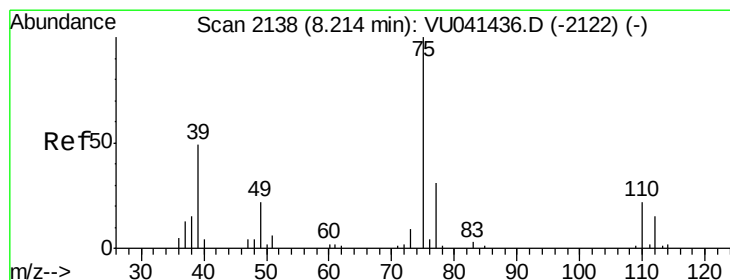
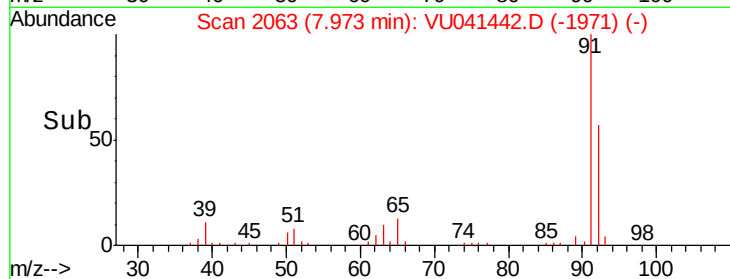
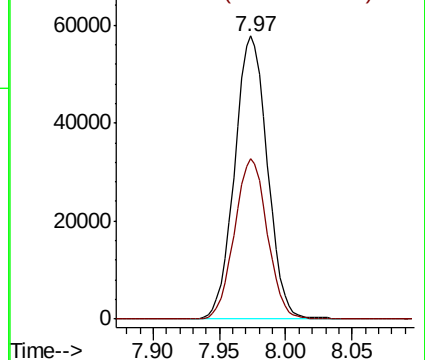
91 100

92 56.8 39.7 73.7



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 92.15 (91.85 to 92.85): VU0



#44

trans-1,3-Dichloropropene

Concen: 5.081 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. 0.00 min

Lab File: VU041442.D

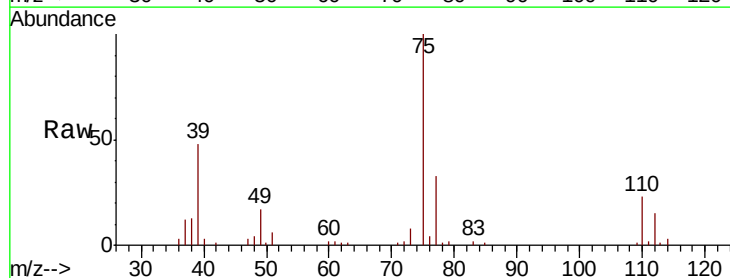
Acq: 30 Nov 2020 15:41

Tgt Ion: 75 Resp: 34904

Ion Ratio Lower Upper

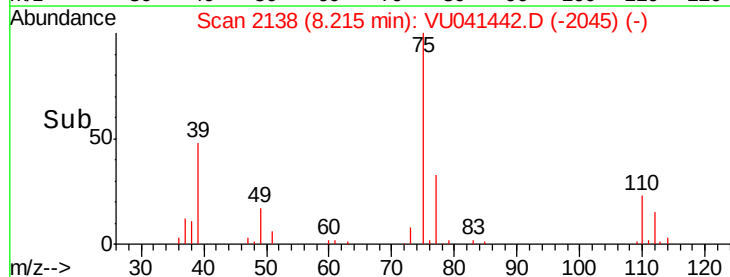
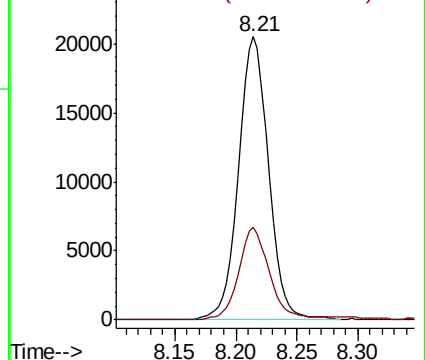
75 100

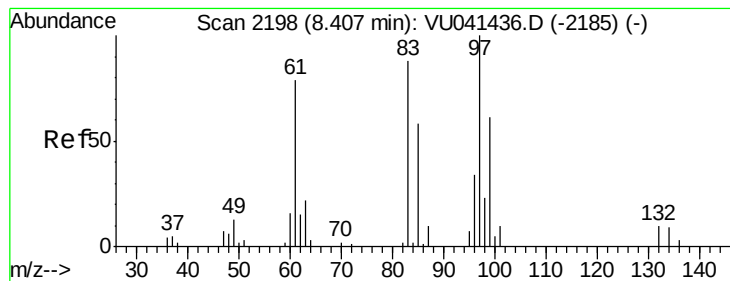
77 32.5 21.5 39.9



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: 5.060 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD005209

Tot Ion: 97 Resp: 17797

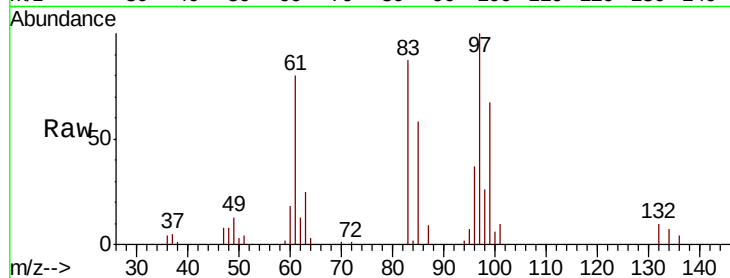
Ion Ratio Lower Upper

97 100

99 66.9 42.8 79.4

83 87.4 61.9 114.9

85 58.3 40.7 75.7

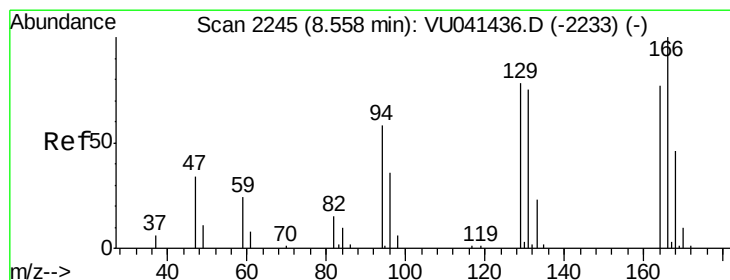
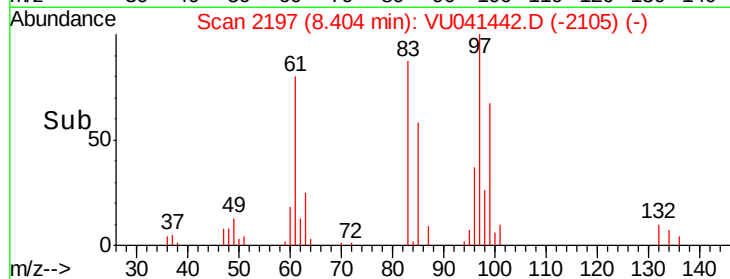
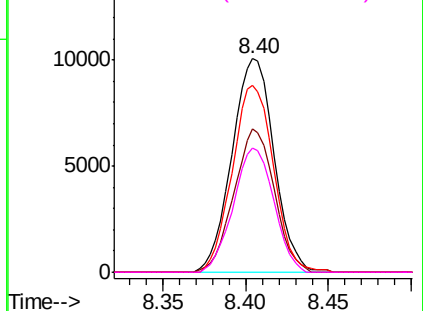


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 5.385 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Tgt Ion: 164 Resp: 19290

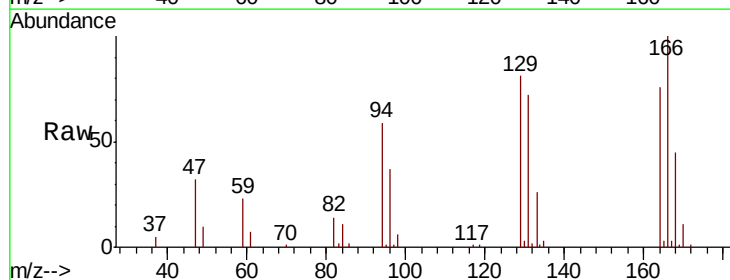
Ion Ratio Lower Upper

164 100

129 106.6 71.3 132.5

131 94.9 68.3 126.8

166 131.8 91.0 169.0

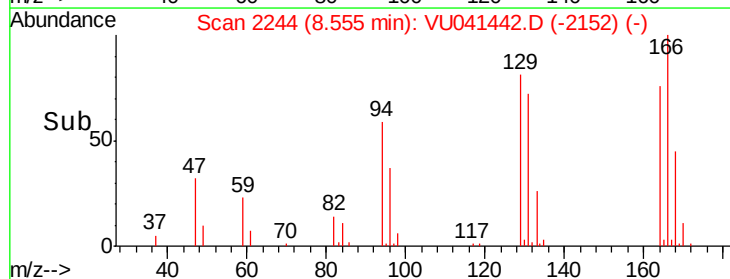
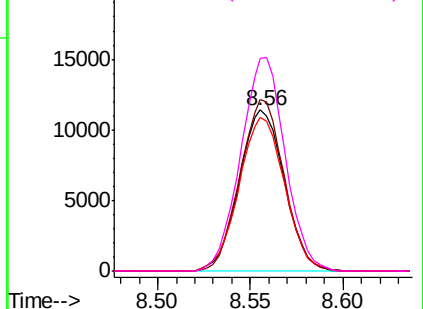


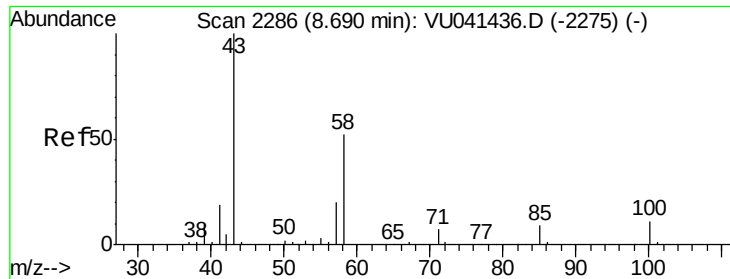
Abundance Ion 163.90 (163.60 to 164.60): V

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

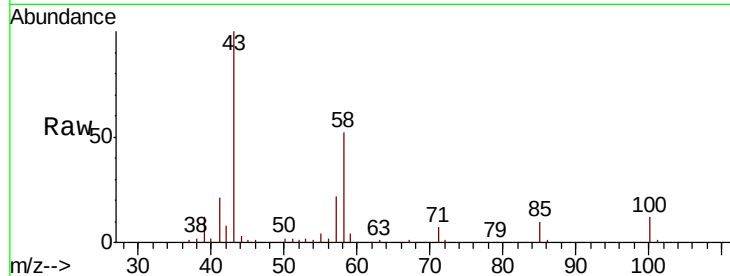




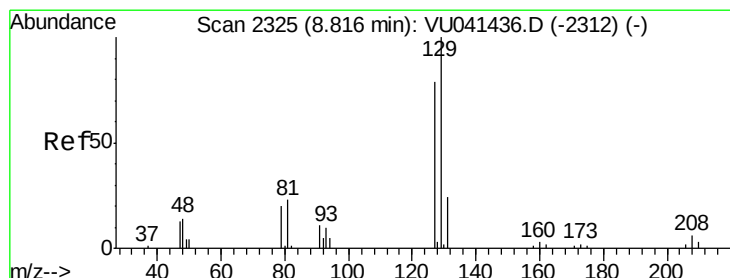
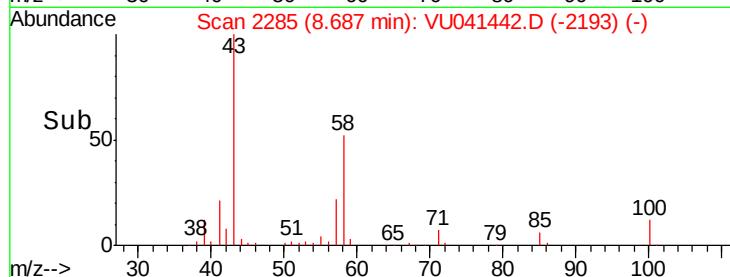
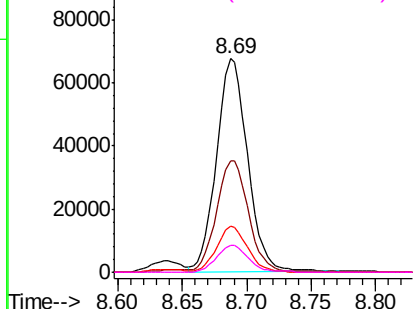
#48
2-Hexanone
Concen: 45.527 ug/L
RT: 8.69 min Scan# 2285
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD005209

Tot Ion: 43 Resp: 113283
Ion Ratio Lower Upper
43 100
58 53.1 42.0 63.0
57 21.0 16.0 24.0
100 12.9 8.9 13.3

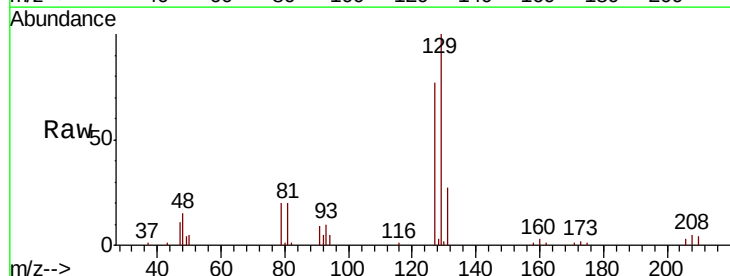


Abundance Ion 43.05 (42.75 to 43.75): VU041436.D (-2275) (-)
Ion 58.05 (57.75 to 58.75): VU041436.D (-2275) (-)
Ion 57.20 (56.90 to 57.90): VU041436.D (-2275) (-)
Ion 100.15 (99.85 to 100.85): VU041436.D (-2275) (-)

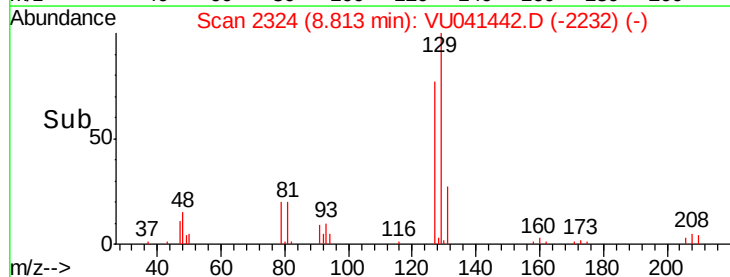
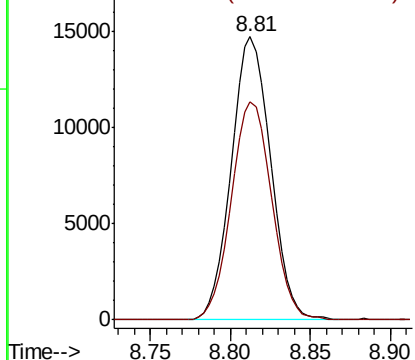


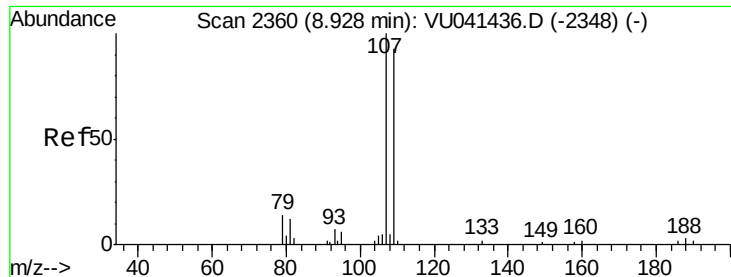
#49
Dibromochloromethane
Concen: 5.131 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Tgt Ion: 129 Resp: 24645
Ion Ratio Lower Upper
129 100
127 77.1 55.4 102.8



Abundance Ion 128.95 (128.65 to 129.65): VU041436.D (-2312) (-)
Ion 126.90 (126.60 to 127.60): VU041436.D (-2312) (-)

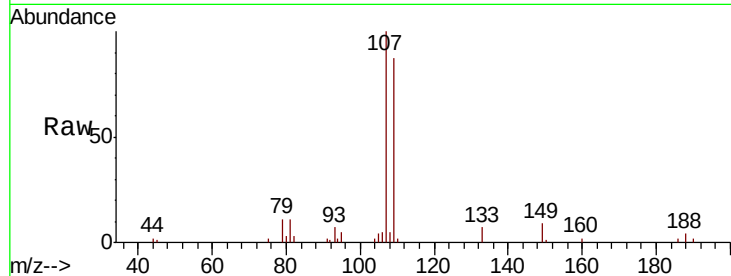




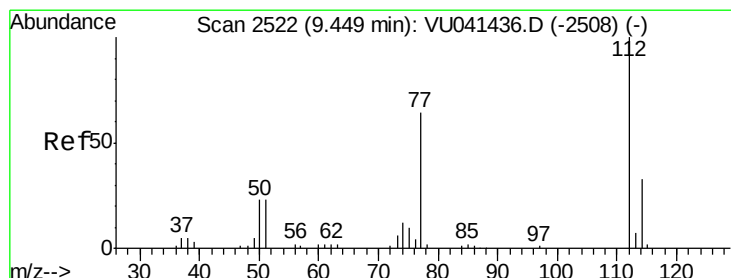
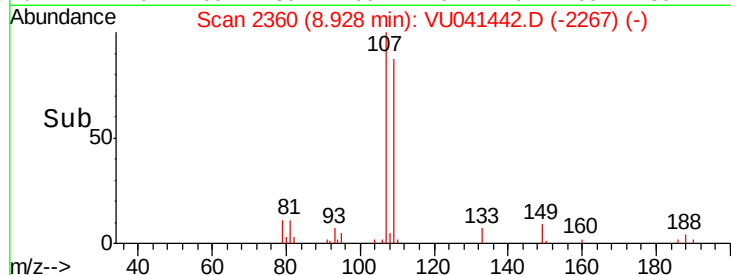
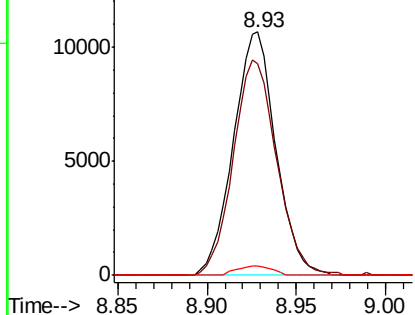
#50
 1,2-Dibromoethane
 Concen: 5.157 ug/L
 RT: 8.93 min Scan# 2360
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005209

Tot Ion:107 Resp: 17708
 Ion Ratio Lower Upper
 107 100
 109 87.0 65.2 121.2
 188 3.6 2.7 4.1

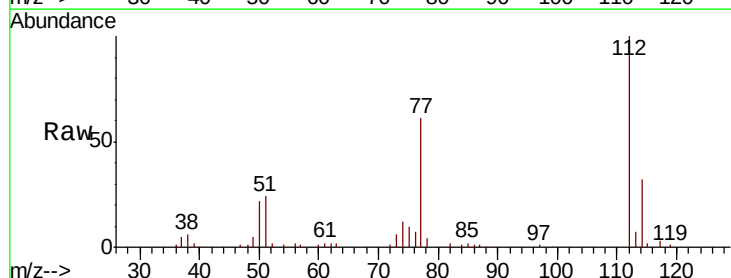


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

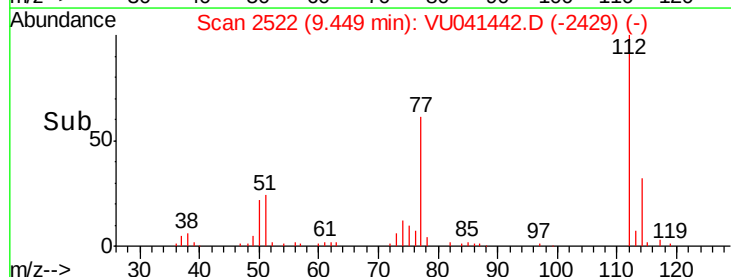
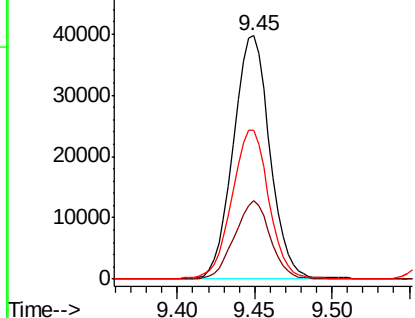


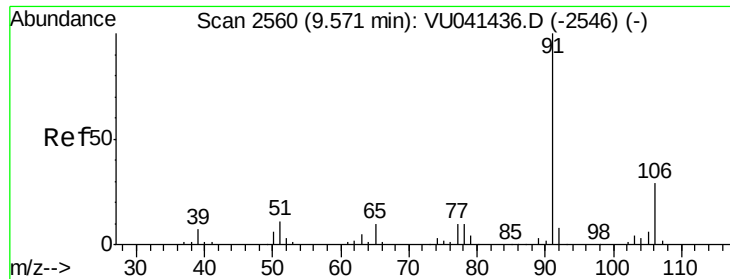
#51
 Chlorobenzene
 Concen: 5.327 ug/L
 RT: 9.45 min Scan# 2522
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

Tgt Ion:112 Resp: 65269
 Ion Ratio Lower Upper
 112 100
 114 32.0 23.0 42.8
 77 61.3 51.8 77.6



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): V





#52

Ethylbenzene

Concen: 5.231 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

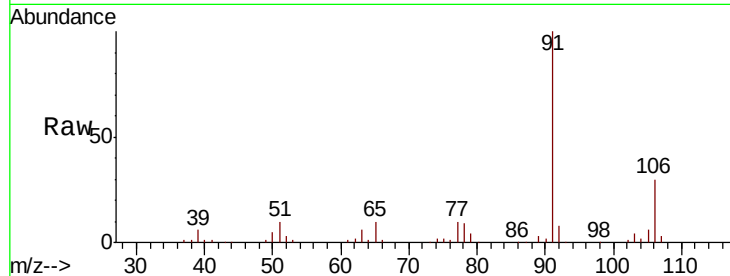
VSTD005209

Tot Ion: 91 Resp: 111408

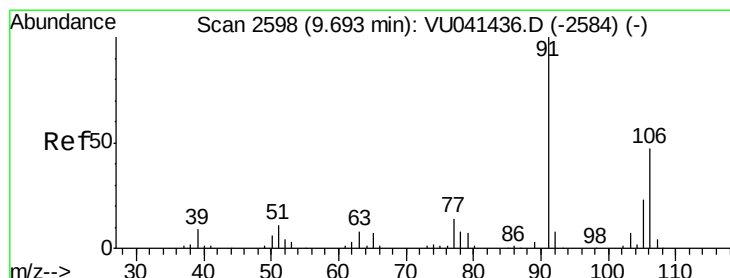
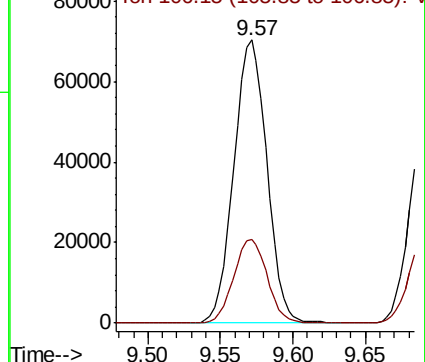
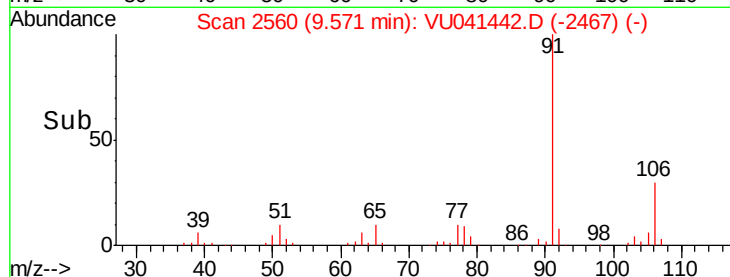
Ion Ratio Lower Upper

91 100

106 29.7 20.0 37.2



Abundance Ion 91.15 (90.85 to 91.85): VU041442.D (-2467) (-)



#53

m,p-Xylene

Concen: 5.340 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041442.D

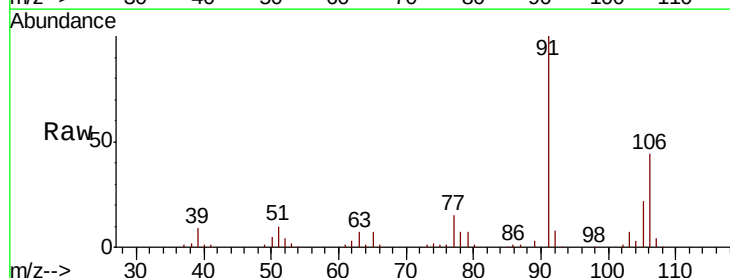
Acq: 30 Nov 2020 15:41

Tgt Ion: 106 Resp: 41017

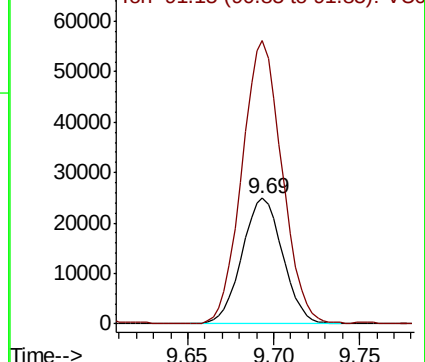
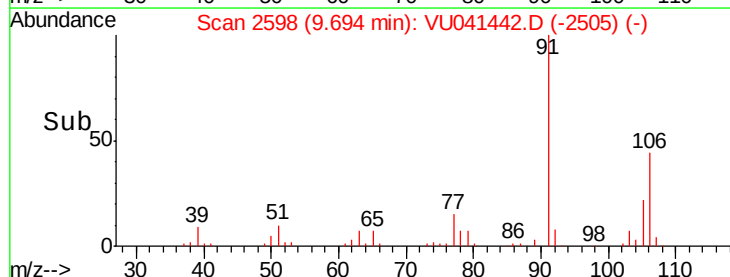
Ion Ratio Lower Upper

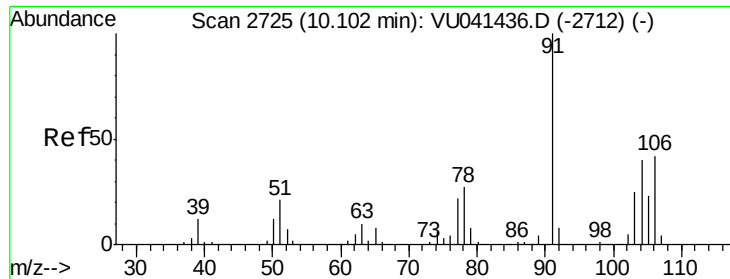
106 100

91 225.4 148.6 276.0



Abundance Ion 106.15 (105.85 to 106.85): VU041442.D (-2505) (-)

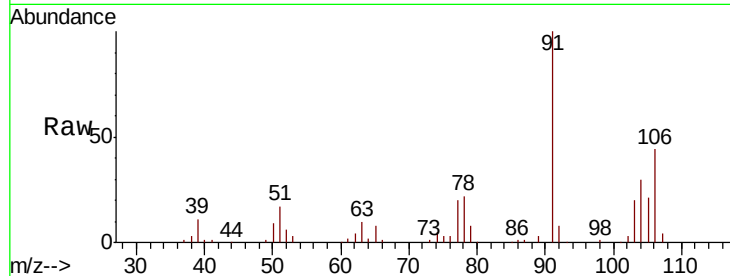




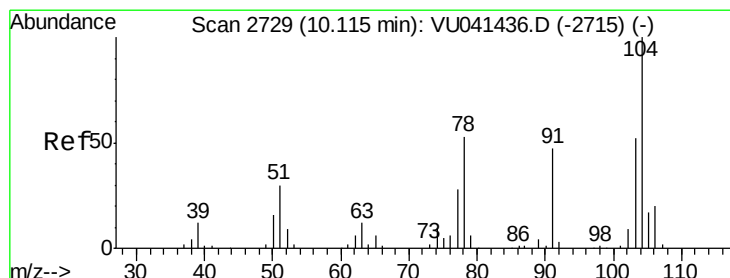
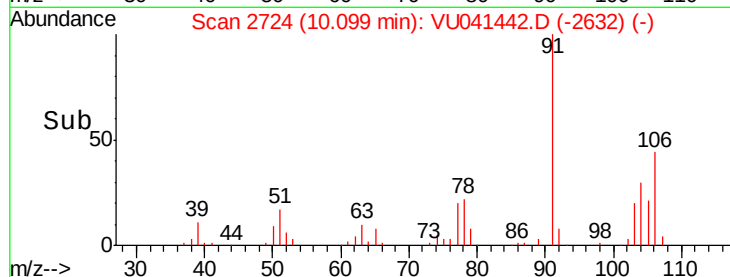
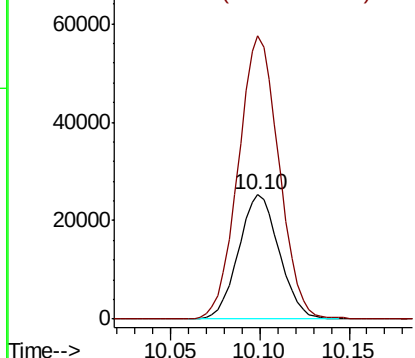
#54
o-Xylene
Concen: 5.433 ug/L
RT: 10.10 min Scan# 2724
Delta R.T. -0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD005209

Tot Ion:106 Resp: 40305
Ion Ratio Lower Upper
106 100
91 227.6 166.9 310.0

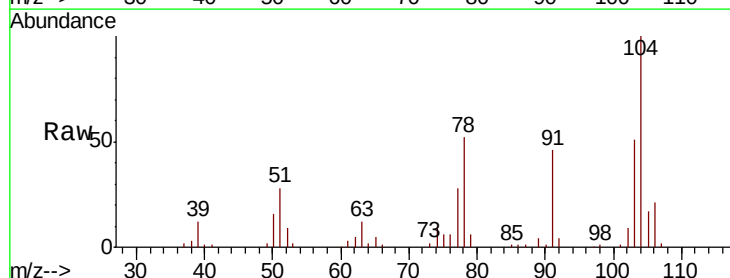


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

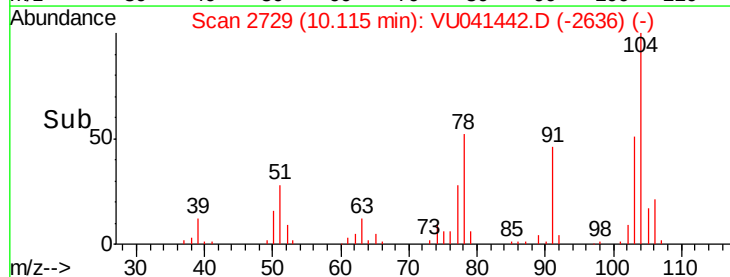
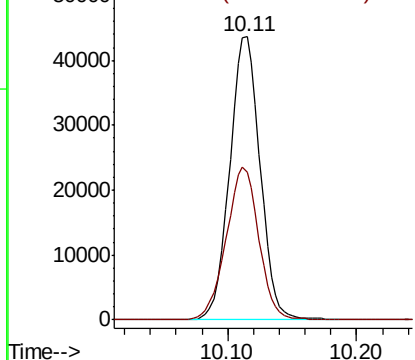


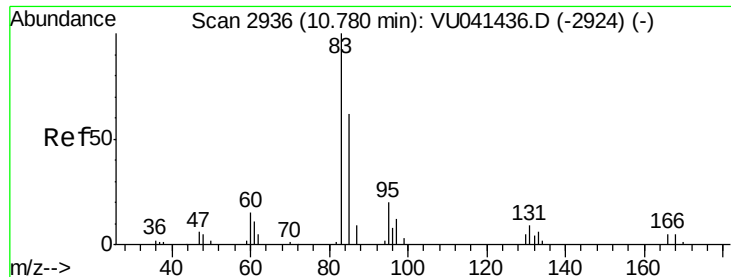
#55
Styrene
Concen: 5.464 ug/L
RT: 10.11 min Scan# 2729
Delta R.T. 0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Tgt Ion:104 Resp: 71376
Ion Ratio Lower Upper
104 100
78 52.3 37.5 69.7



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0

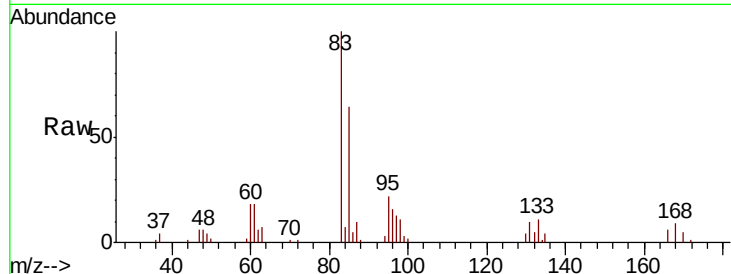




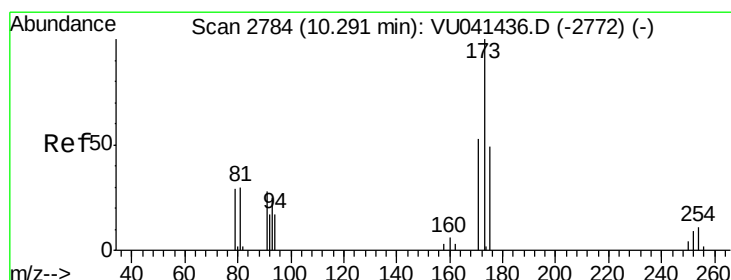
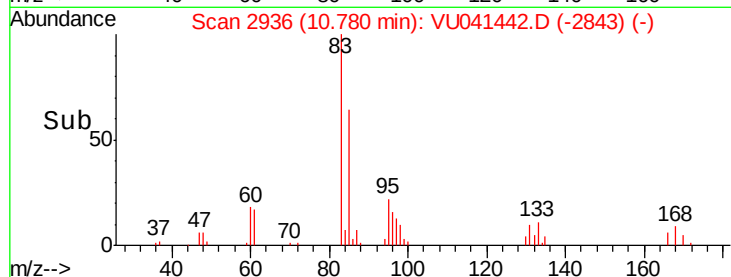
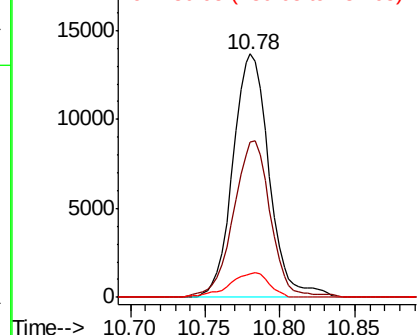
#57
 1,1,2,2-Tetrachloroethane
 Concen: 4.931 ug/L
 RT: 10.78 min Scan# 2936
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005209

Tot Ion: 83 Resp: 22993
 Ion Ratio Lower Upper
 83 100
 85 63.7 43.5 80.7
 131 9.6 7.6 11.4

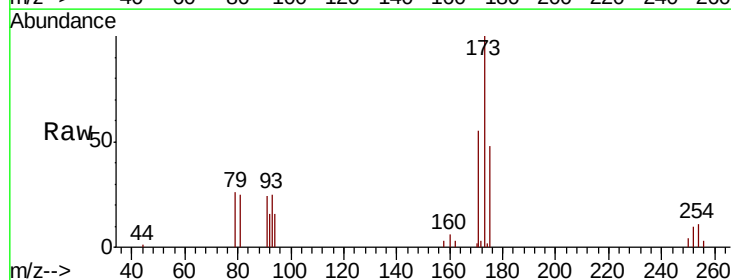


Abundance Ion 82.95 (82.65 to 83.65): VU041436.D (-2924) (-)
 Ion 85.00 (84.70 to 85.70): VU041436.D (-2924) (-)
 Ion 130.95 (130.65 to 131.65): VU041436.D (-2924) (-)

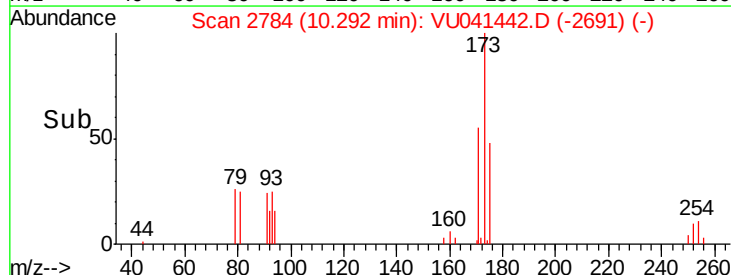
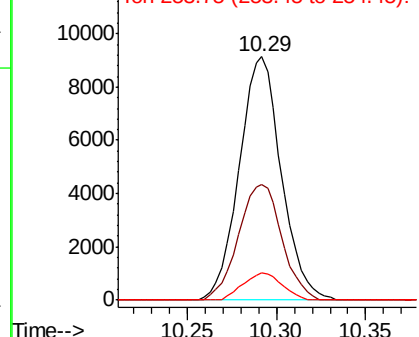


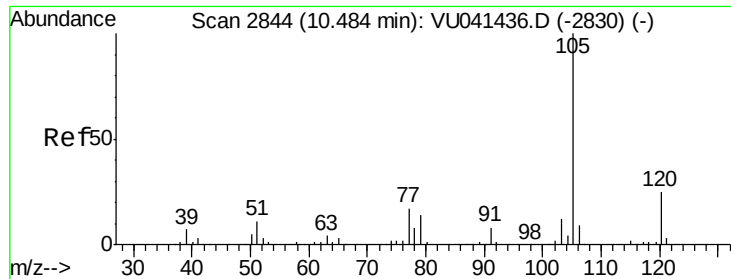
#59
 Bromoform
 Concen: 5.405 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

Tgt Ion: 173 Resp: 15038
 Ion Ratio Lower Upper
 173 100
 175 49.0 36.9 55.3
 254 10.3 7.4 11.0



Abundance Ion 172.90 (172.60 to 173.60): VU041436.D (-2772) (-)
 Ion 174.90 (174.60 to 175.60): VU041436.D (-2772) (-)
 Ion 253.75 (253.45 to 254.45): VU041436.D (-2772) (-)





#60

Isopropylbenzene

Concen: 5.384 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD005209

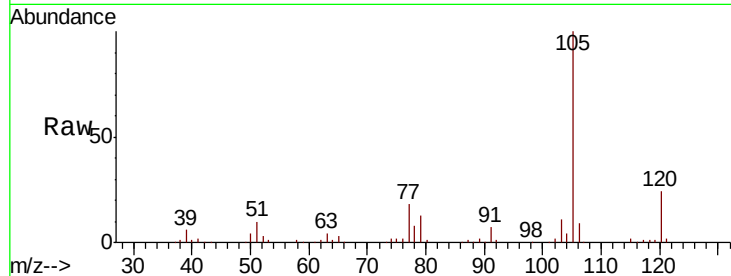
Tot Ion:105 Resp: 113407

Ion Ratio Lower Upper

105 100

120 24.8 20.3 30.5

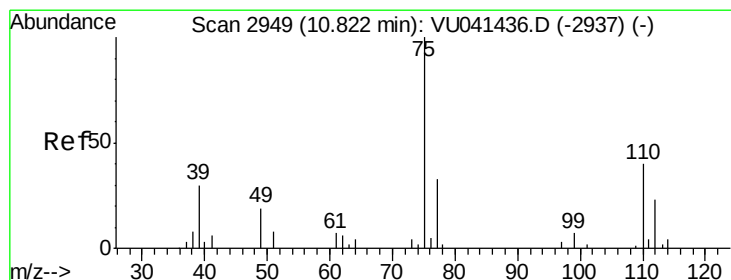
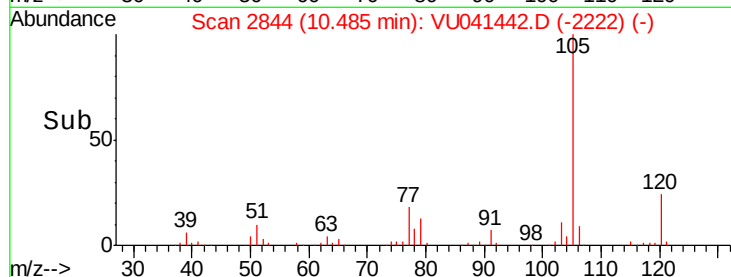
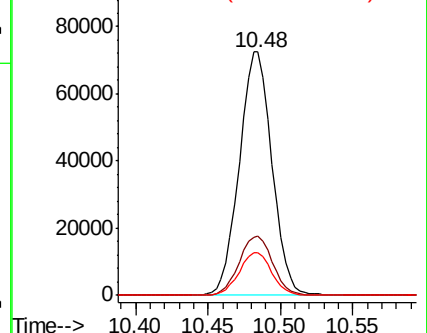
77 17.6 13.9 20.9



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): VU



#61

1,2,3-Trichloropropane

Concen: 5.133 ug/L

RT: 10.82 min Scan# 2949

Delta R.T. 0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

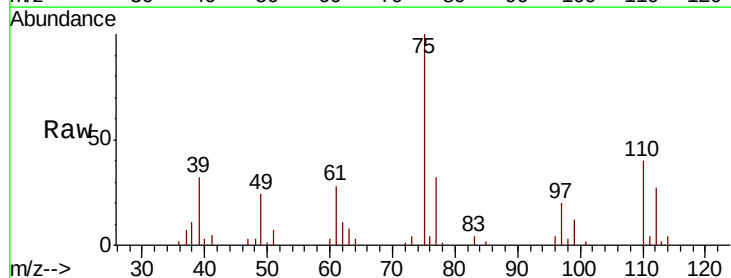
Tgt Ion: 75 Resp: 18798

Ion Ratio Lower Upper

75 100

110 38.9 33.0 49.4

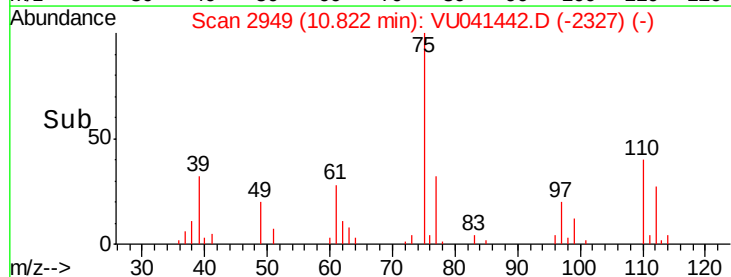
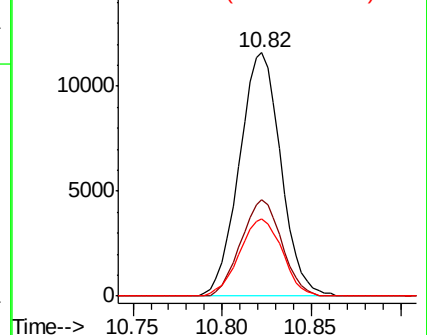
77 32.6 27.4 41.0

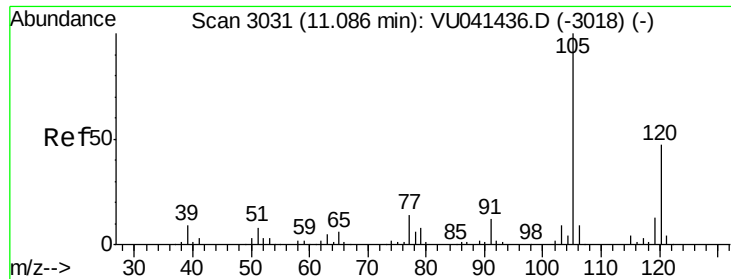


Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VU





#62

1,3,5-Trimethylbenzene

Concen: 5.503 ug/L

RT: 11.09 min Scan# 3031

Delta R.T. 0.00 min

Lab File: VU041442.D

Acq: 30 Nov 2020 15:41

Instrument :

MSVOA_U

ClientSampleId :

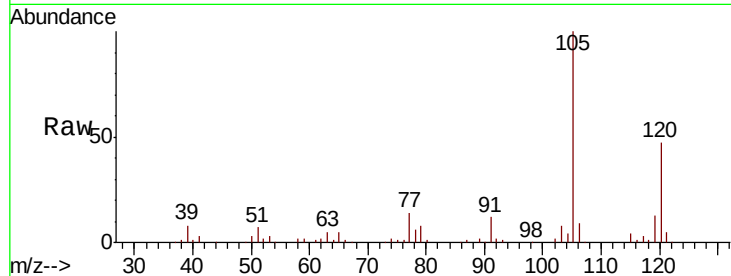
VSTD005209

Tot Ion:105 Resp: 99185

Ion Ratio Lower Upper

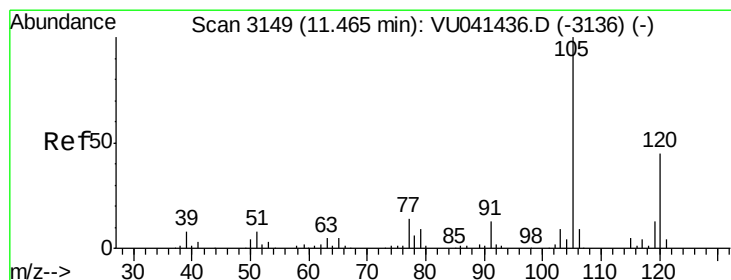
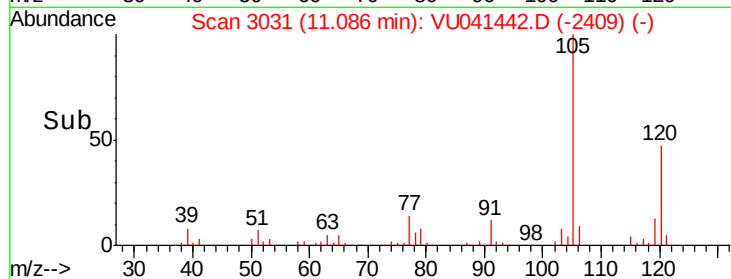
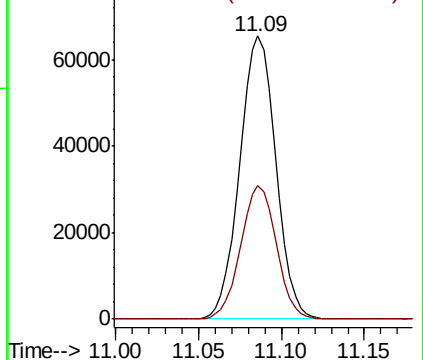
105 100

120 46.6 36.6 54.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 5.578 ug/L

RT: 11.47 min Scan# 3149

Delta R.T. 0.00 min

Lab File: VU041442.D

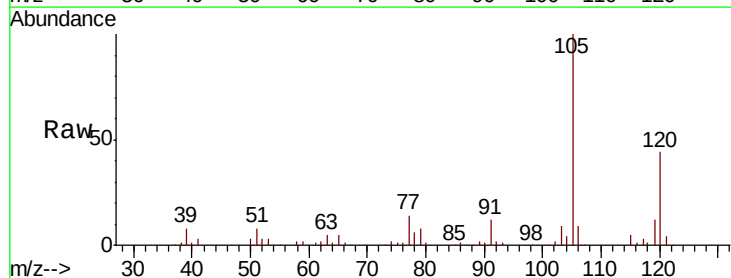
Acq: 30 Nov 2020 15:41

Tgt Ion:105 Resp: 102053

Ion Ratio Lower Upper

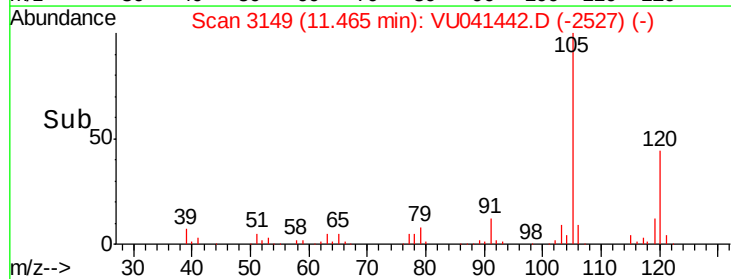
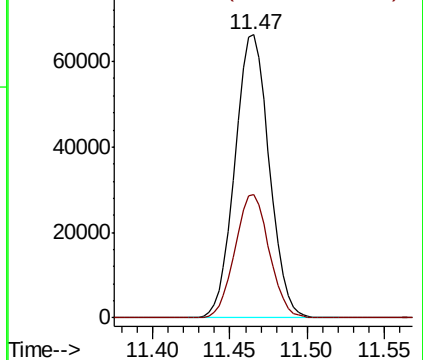
105 100

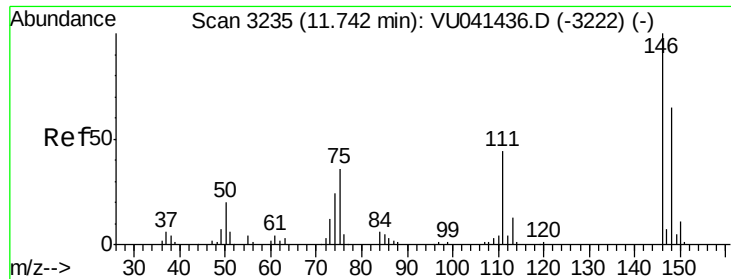
120 43.6 35.4 53.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

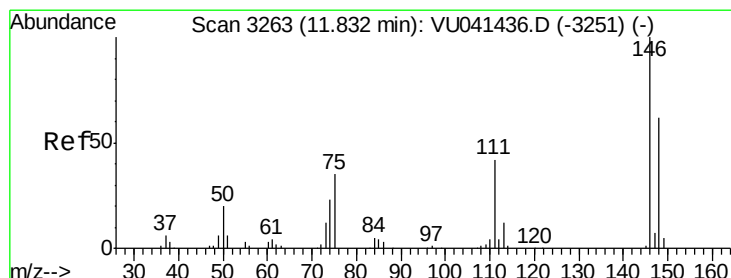
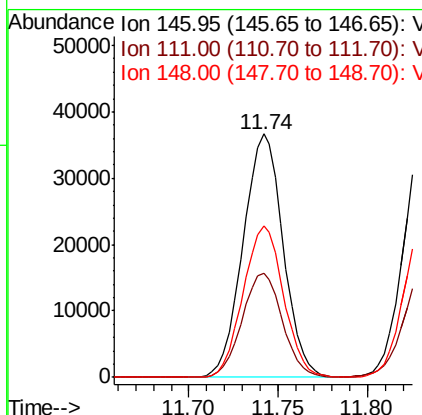
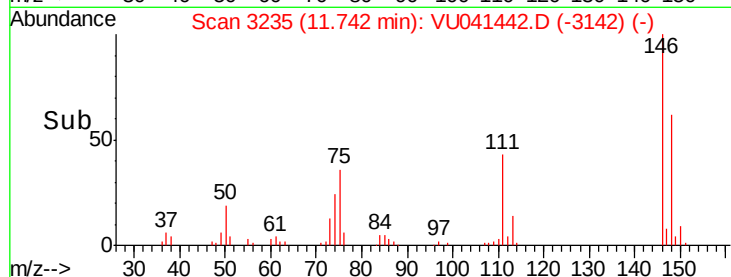
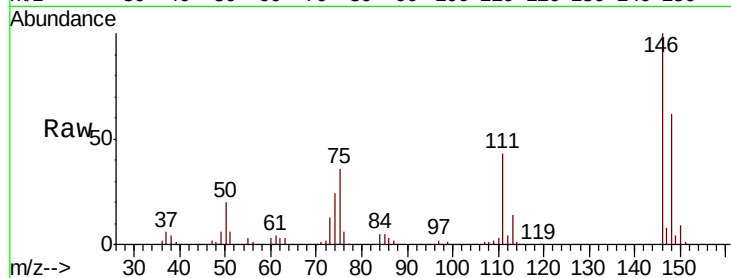




#64
 1,3-Dichlorobenzene
 Concen: 5.475 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

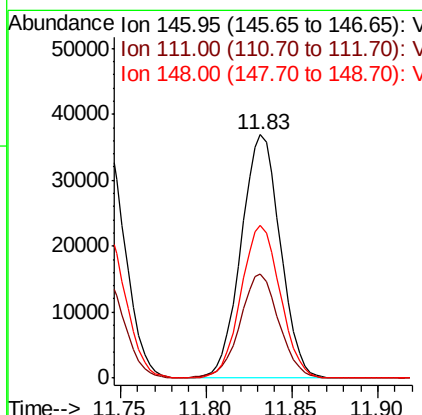
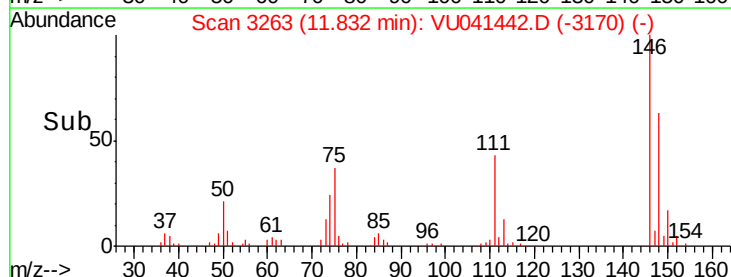
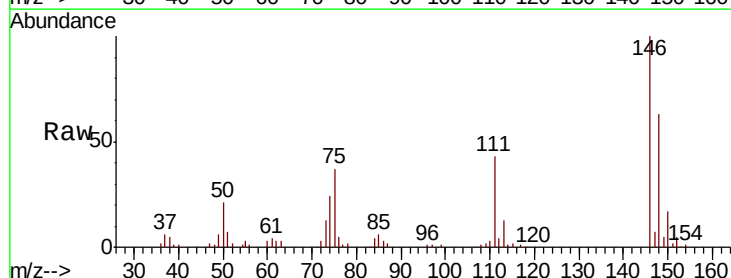
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005209

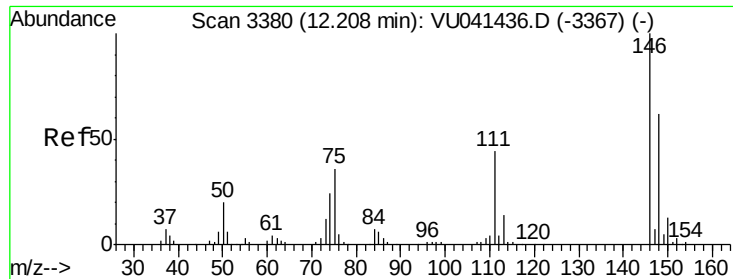
Tot Ion:146 Resp: 57430
 Ion Ratio Lower Upper
 146 100
 111 42.6 30.9 57.3
 148 62.1 45.8 85.0



#65
 1,4-Dichlorobenzene
 Concen: 5.484 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

Tgt Ion:146 Resp: 58284
 Ion Ratio Lower Upper
 146 100
 111 42.6 29.4 54.6
 148 62.8 43.7 81.1

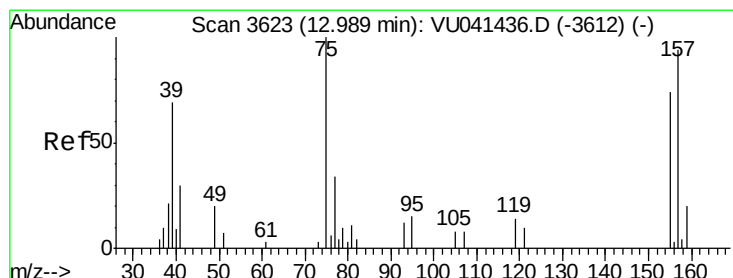
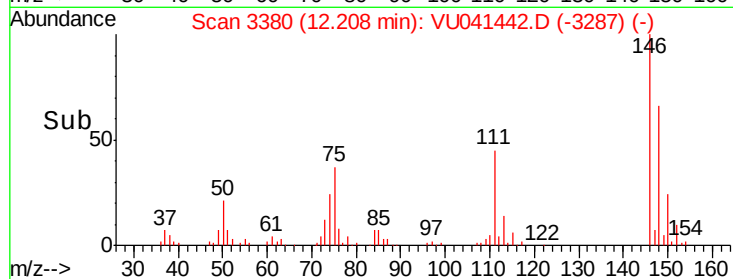
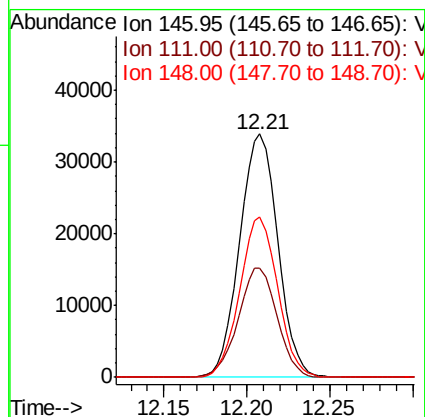
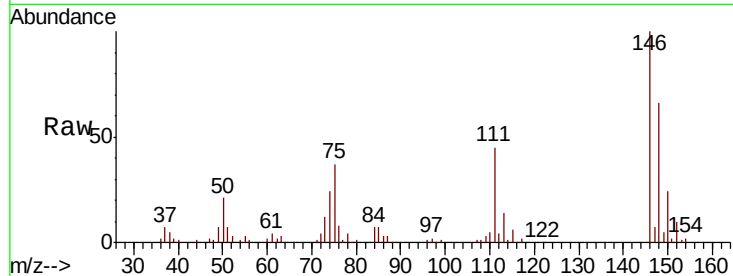




#67
 1,2-Dichlorobenzene
 Concen: 5.300 ug/L
 RT: 12.21 min Scan# 3380
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

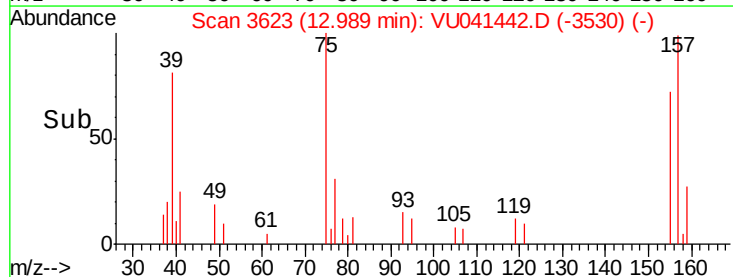
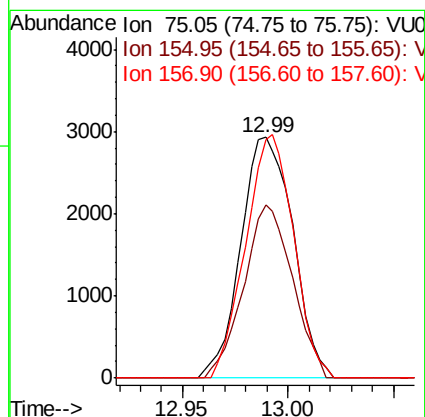
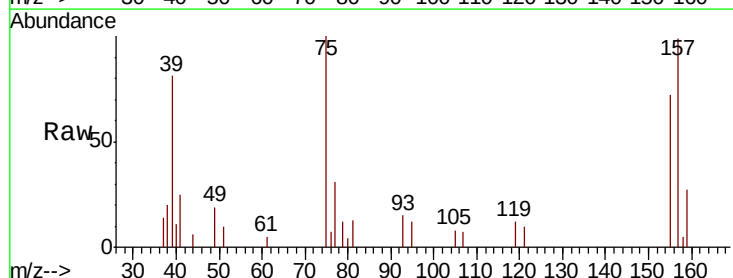
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005209

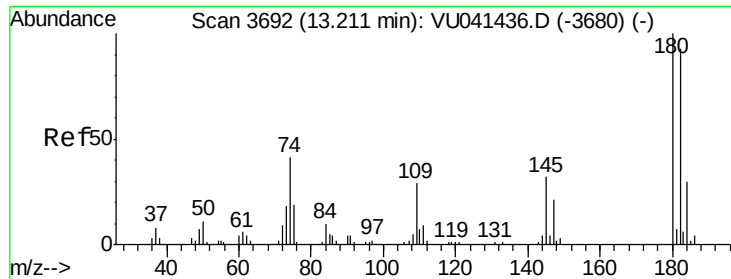
Tot Ion:146 Resp: 54372
 Ion Ratio Lower Upper
 146 100
 111 45.1 35.3 52.9
 148 65.7 49.6 74.4



#68
 1,2-Dibromo-3-chloropropane
 Concen: 5.023 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

Tgt Ion: 75 Resp: 5028
 Ion Ratio Lower Upper
 75 100
 155 71.8 59.3 88.9
 157 99.1 75.1 112.7

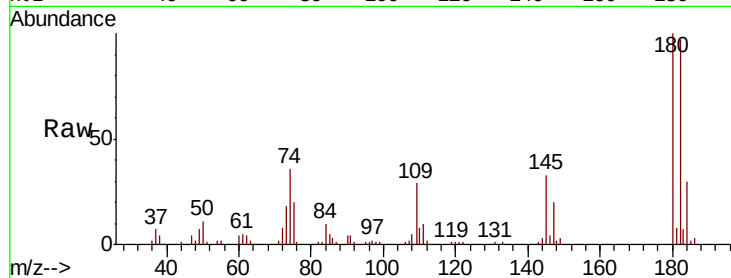




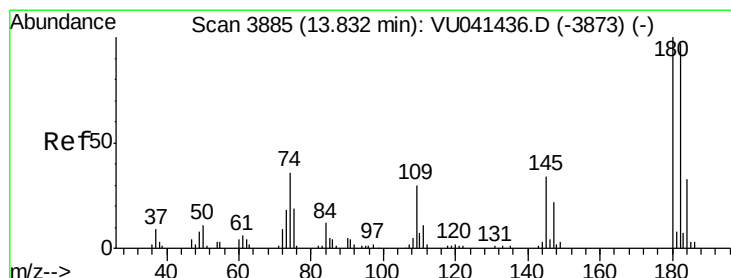
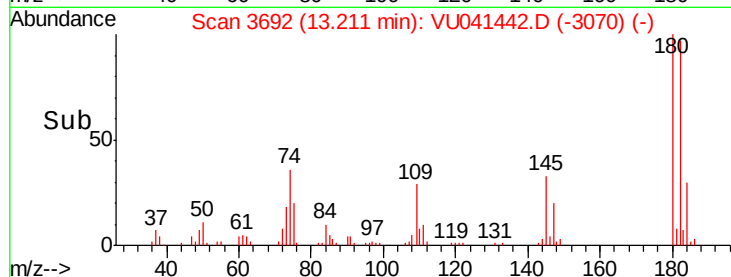
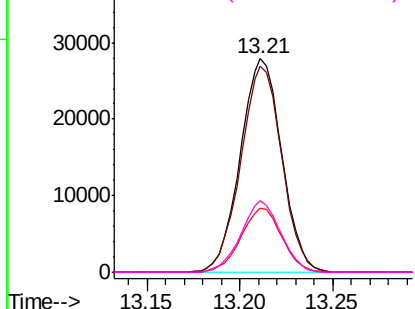
#69
 1,3,5-Trichlorobenzene
 Concen: 5.446 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005209

Tot Ion:180 Resp: 43365
 Ion Ratio Lower Upper
 180 100
 182 95.5 76.2 114.2
 184 29.6 24.1 36.1
 145 31.9 26.1 39.1

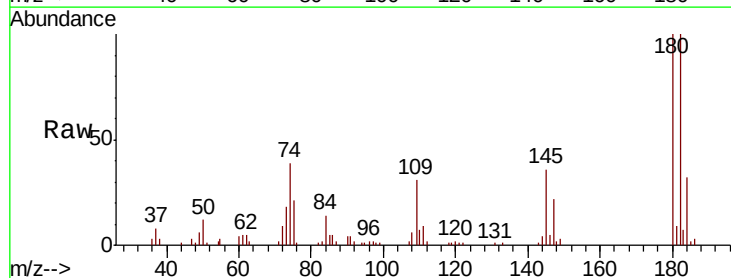


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

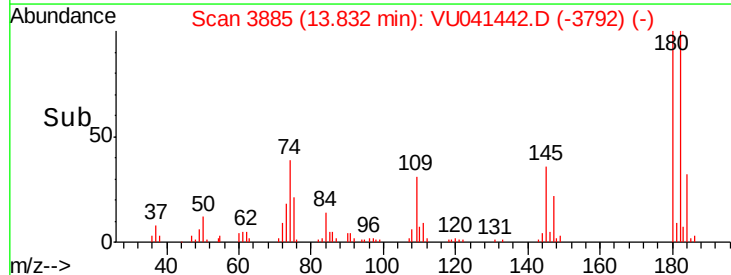
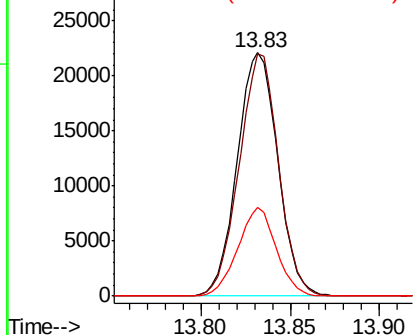


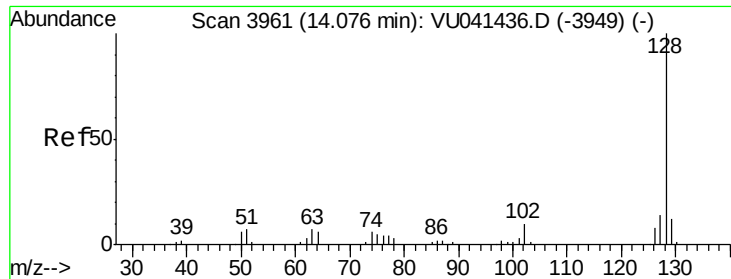
#70
 1,2,4-trichlorobenzene
 Concen: 5.269 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU041442.D
 Acq: 30 Nov 2020 15:41

Tgt Ion:180 Resp: 34909
 Ion Ratio Lower Upper
 180 100
 182 96.6 78.4 117.6
 145 34.6 27.4 41.0



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

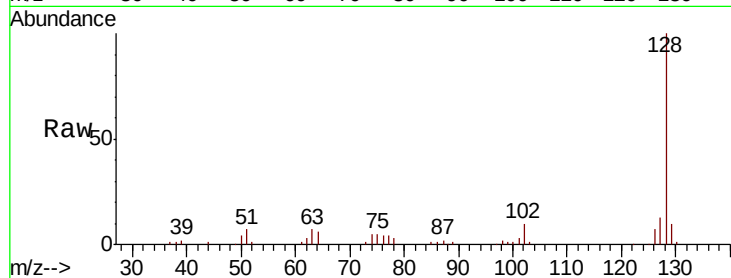




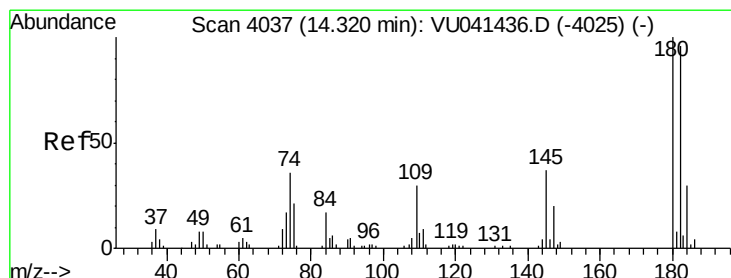
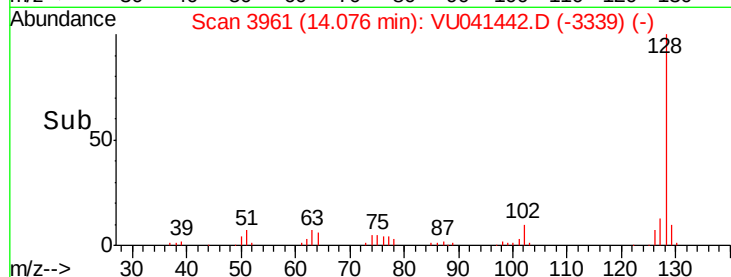
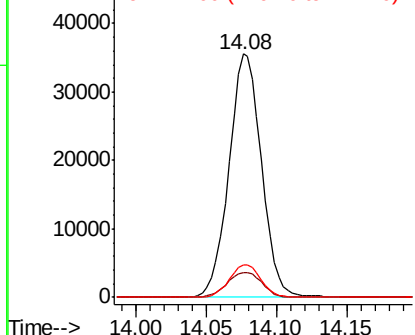
#71
Naphthalene
Concen: 5.235 ug/L
RT: 14.08 min Scan# 3961
Delta R.T. 0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD005209

Tot Ion:128 Resp: 57388
Ion Ratio Lower Upper
128 100
129 10.9 9.4 14.0
127 12.8 10.8 16.2

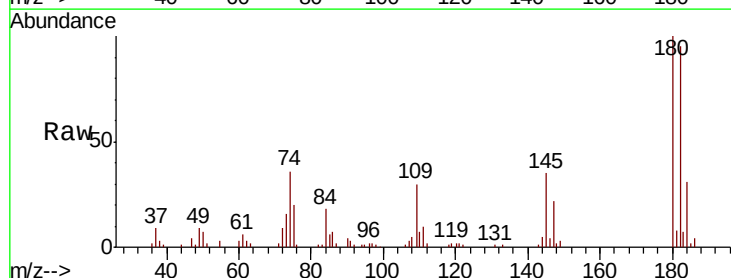


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#72
1,2,3-Trichlorobenzene
Concen: 5.666 ug/L
RT: 14.32 min Scan# 4037
Delta R.T. 0.00 min
Lab File: VU041442.D
Acq: 30 Nov 2020 15:41

Tgt Ion:180 Resp: 33673
Ion Ratio Lower Upper
180 100
182 94.3 77.6 116.4
145 33.9 28.6 43.0



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

