

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102920\
 Data File : VU041014.D
 Acq On : 29 Oct 2020 13:22
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Quant Time: Oct 29 13:57:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMUTR102820WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 29 12:31:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	119235	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	118329	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.81	152	60848	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	36262	4.52	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.40%
7) Chloroethane-d5	1.92	69	30015	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.60%
11) 1,1-Dichloroethene-d2	2.58	65	18199	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	93.80%
20) 2-Butanone-d5	4.66	46	170694	51.06	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.12%
24) Chloroform-d	5.08	84	77333	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
26) 1,2-Dichloroethane-d4	5.72	65	48170	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.74	84	135288	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
36) 1,2-Dichloropropane-d6	6.70	67	47287	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.80%
41) Toluene-d8	7.90	98	121645	4.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.60%
43) trans-1,3-Dichloropropene-	8.18	79	20592	4.87	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	97.40%
46) 2-Hexanone-d5	8.64	63	121216	52.68	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.36%
56) 1,1,2,2-Tetrachloroethane-	10.75	84	46067	4.98	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.60%
66) 1,2-Dichlorobenzene-d4	12.19	152	44637	4.38	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	51479	5.065	ug/L	98
3) Chloromethane	1.53	50	51495	4.838	ug/L	96
5) Vinyl chloride	1.61	62	53375	5.063	ug/L	99
6) Bromomethane	1.87	94	28572	5.083	ug/L	94
8) Chloroethane	1.94	64	31721	4.704	ug/L	95
9) Trichlorofluoromethane	2.15	101	71695	4.906	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	42844	5.055	ug/L	100
12) 1,1-Dichloroethene	2.59	96	38733	4.798	ug/L	83
13) Acetone	2.68	43	115520	55.140	ug/L	85
14) Carbon disulfide	2.81	76	128499	5.000	ug/L	97
15) Methyl Acetate	2.97	43	24907	5.080	ug/L	98
16) Methylene chloride	3.06	84	47388	4.917	ug/L	96
17) Methyl tert-butyl Ether	3.38	73	105928	5.035	ug/L	99
18) trans-1,2-Dichloroethene	3.37	96	40526	4.952	ug/L	96
19) 1,1-Dichloroethane	3.89	63	83836	4.947	ug/L	98
21) 2-Butanone	4.74	43	187371	55.121	ug/L	99
22) cis-1,2-Dichloroethene	4.68	96	41539	4.752	ug/L	99

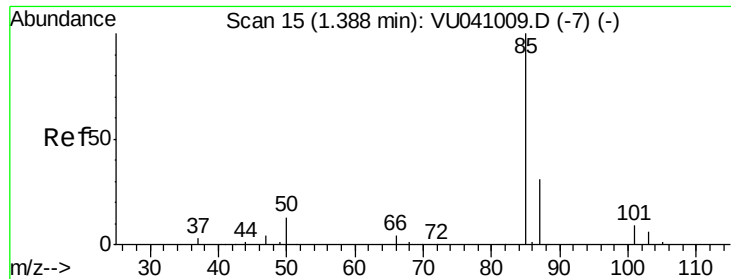
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU102920\
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 Acq On : 29 Oct 2020 13:22
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 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 29 12:31:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.99	128	21354	5.135	ug/L	97
25) Chloroform	5.10	83	85775	4.956	ug/L	99
27) 1,2-Dichloroethane	5.81	62	62440	4.930	ug/L	100
29) 1,1,1-Trichloroethane	5.33	97	71616	4.874	ug/L	97
30) Cyclohexane	5.40	56	68806	5.052	ug/L	99
31) Carbon tetrachloride	5.54	117	63440	5.059	ug/L	99
33) Benzene	5.79	78	175659	5.104	ug/L	100
34) Trichloroethene	6.55	95	46080	5.029	ug/L	95
35) Methylcyclohexane	6.77	83	64573	5.062	ug/L	99
37) 1,2-Dichloropropane	6.80	63	50018	5.120	ug/L	99
38) Bromodichloromethane	7.11	83	61128	5.008	ug/L	97
39) cis-1,3-Dichloropropene	7.61	75	65780	5.089	ug/L	95
40) 4-Methyl-2-pentanone	7.80	43	402195	54.507	ug/L	100
42) Toluene	7.97	91	184219	5.294	ug/L	99
44) trans-1,3-Dichloropropene	8.21	75	62159	5.161	ug/L	97
45) 1,1,2-Trichloroethane	8.40	97	35166	5.039	ug/L	91
47) Tetrachloroethene	8.56	164	32094	5.055	ug/L	91
48) 2-Hexanone	8.69	43	306087	55.294	ug/L	99
49) Dibromochloromethane	8.81	129	40355	5.014	ug/L	98
50) 1,2-Dibromoethane	8.92	107	34179	5.231	ug/L	91
51) Chlorobenzene	9.45	112	114396	5.125	ug/L	99
52) Ethylbenzene	9.57	91	188738	5.226	ug/L	99
53) m,p-Xylene	9.69	106	68808	5.266	ug/L	98
54) o-Xylene	10.10	106	66204	5.298	ug/L	98
55) Styrene	10.11	104	117228	5.402	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.78	83	45627	5.068	ug/L	93
59) Bromoform	10.29	173	22757	4.796	ug/L	97
60) Isopropylbenzene	10.48	105	178206	5.046	ug/L	99
61) 1,2,3-Trichloropropane	10.82	75	35509	4.838	ug/L	97
62) 1,3,5-Trimethylbenzene	11.09	105	139749	4.931	ug/L	99
63) 1,2,4-Trimethylbenzene	11.47	105	147769	5.146	ug/L	100
64) 1,3-Dichlorobenzene	11.74	146	88388	5.018	ug/L	98
65) 1,4-Dichlorobenzene	11.83	146	89575	4.977	ug/L	98
67) 1,2-Dichlorobenzene	12.20	146	83333	4.878	ug/L	98
68) 1,2-Dibromo-3-chloropropan	12.99	75	8563	5.062	ug/L	91
69) 1,3,5-Trichlorobenzene	13.21	180	60164	4.976	ug/L	98
70) 1,2,4-trichlorobenzene	13.83	180	50114	4.921	ug/L	99
71) Naphthalene	14.08	128	85737	4.809	ug/L	99
72) 1,2,3-Trichlorobenzene	14.32	180	48433	5.077	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 5.065 ug/L

RT: 1.39 min Scan# 16

Delta R.T. 0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

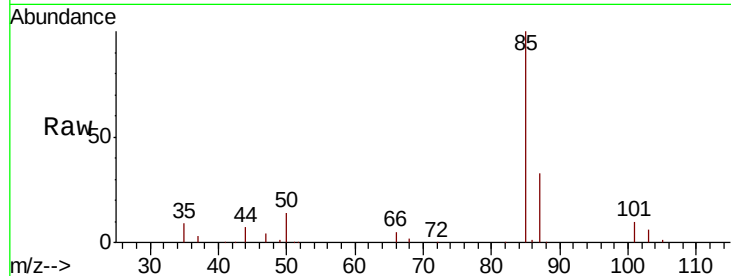
VSTD00512

Tot Ion: 85 Resp: 51479

Ion Ratio Lower Upper

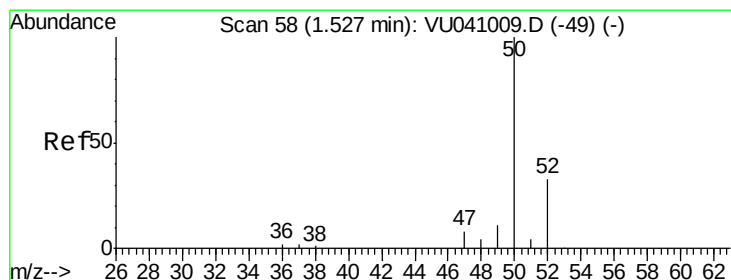
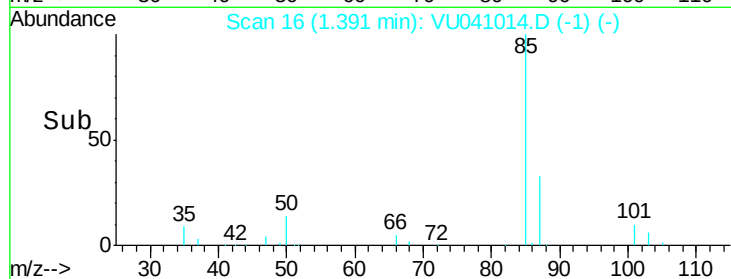
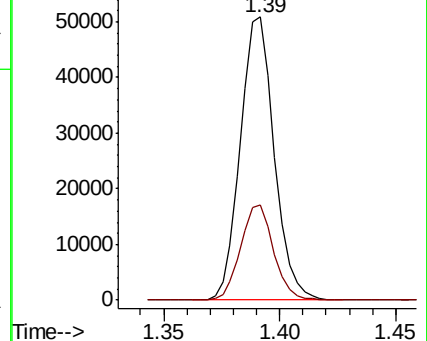
85 100

87 32.9 25.2 37.8



Abundance Ion 85.00 (84.70 to 85.70): VU041009.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU041009.D (-7) (-)



#3

Chloromethane

Concen: 4.838 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041014.D

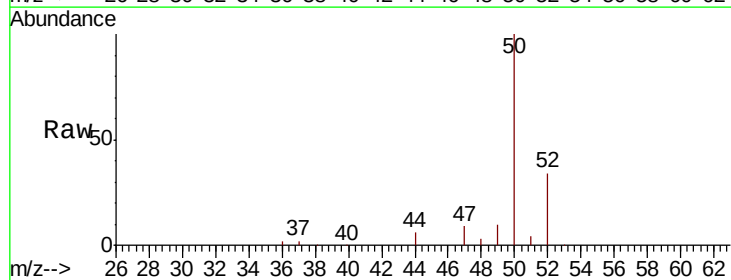
Acq: 29 Oct 2020 13:22

Tgt Ion: 50 Resp: 51495

Ion Ratio Lower Upper

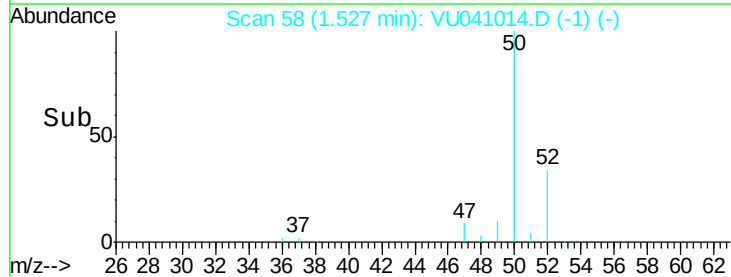
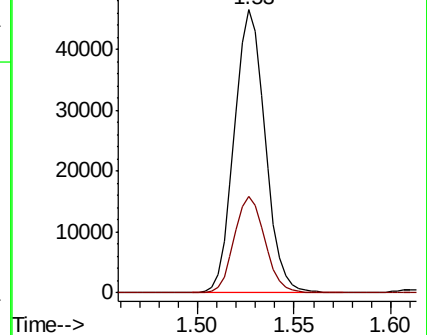
50 100

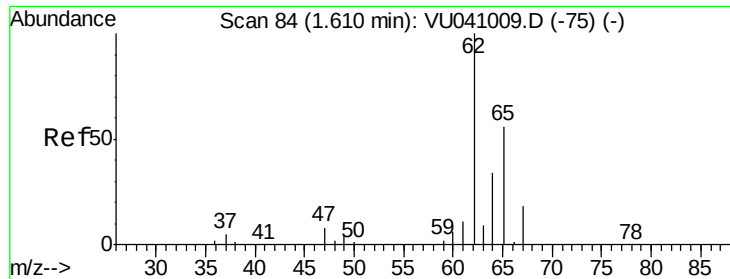
52 34.1 22.4 41.6



Abundance Ion 50.05 (49.75 to 50.75): VU041009.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU041009.D (-49) (-)





#5

Vinyl chloride

Concen: 5.063 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

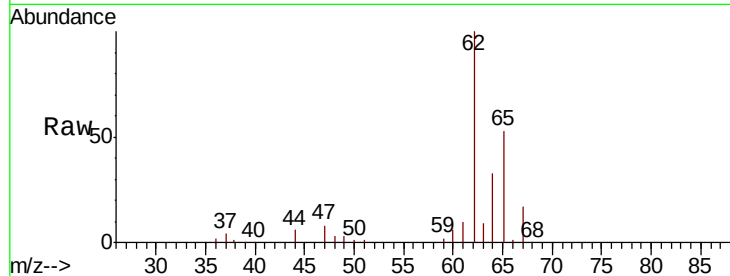
VSTD00512

Tot Ion: 62 Resp: 53375

Ion Ratio Lower Upper

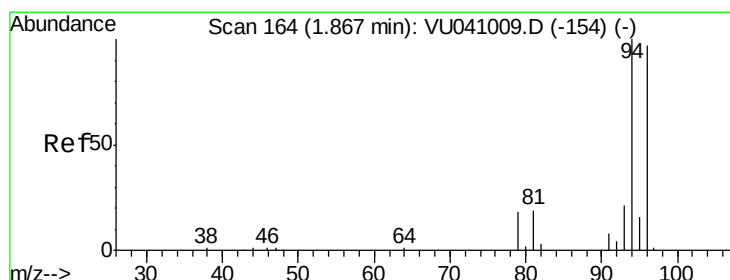
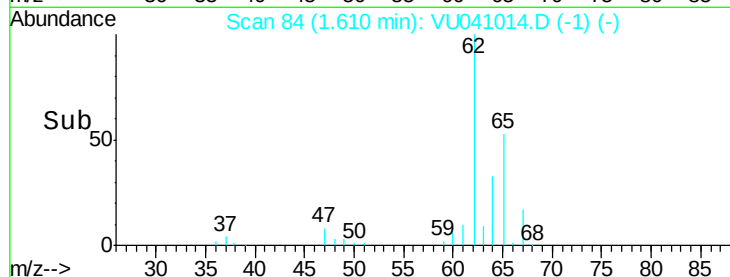
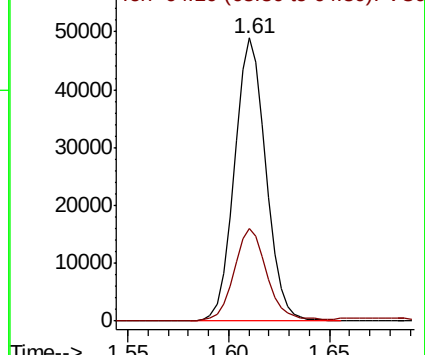
62 100

64 32.8 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 5.083 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU041014.D

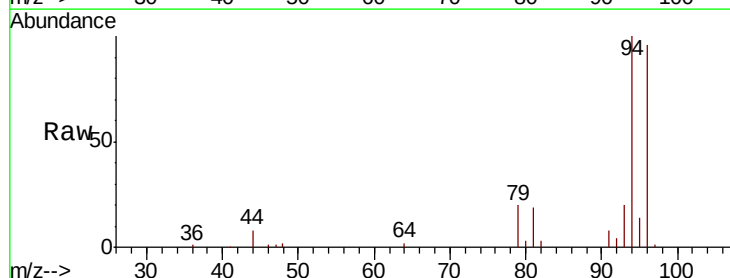
Acq: 29 Oct 2020 13:22

Tgt Ion: 94 Resp: 28572

Ion Ratio Lower Upper

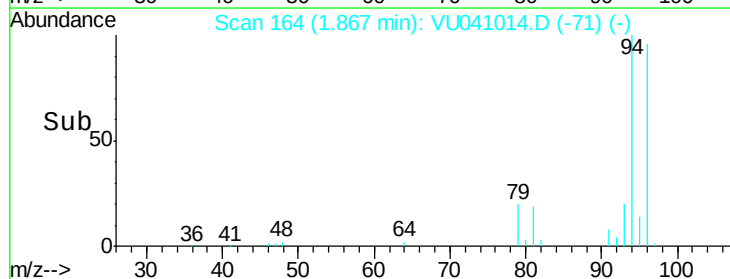
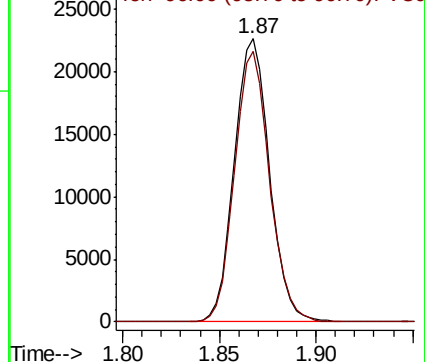
94 100

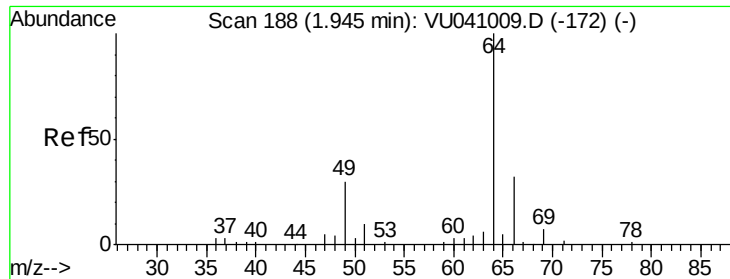
96 95.6 63.2 117.4



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

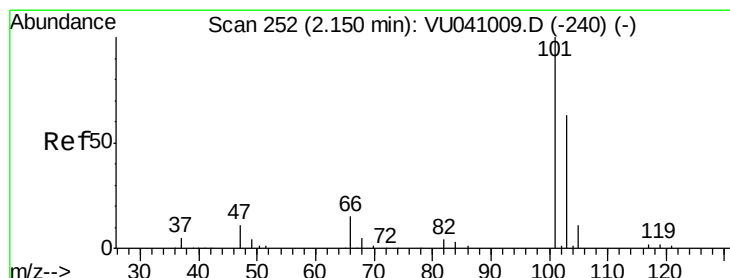
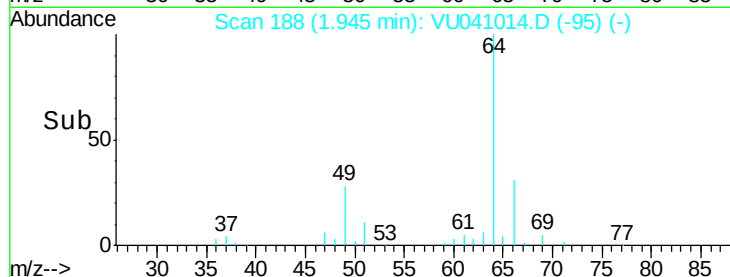
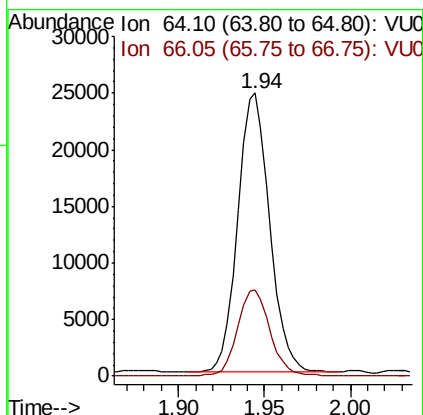
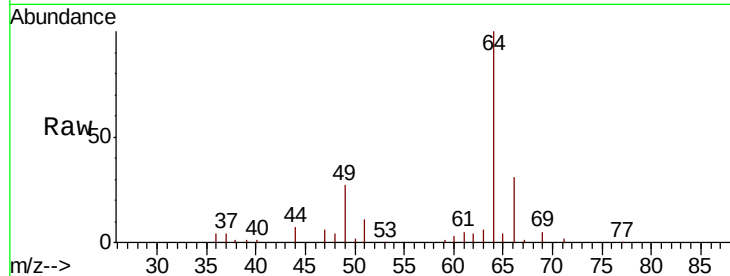




#8
 Chloroethane
 Concen: 4.704 ug/L
 RT: 1.94 min Scan# 188
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

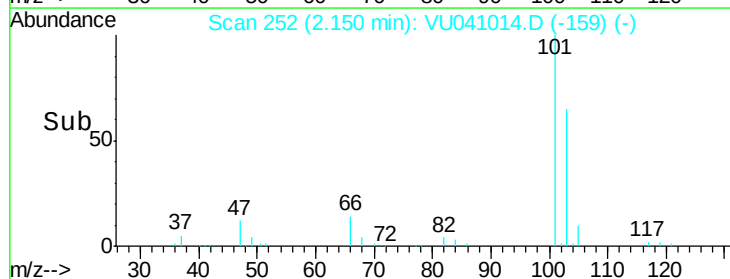
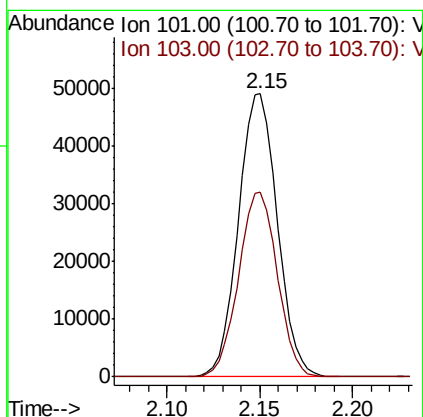
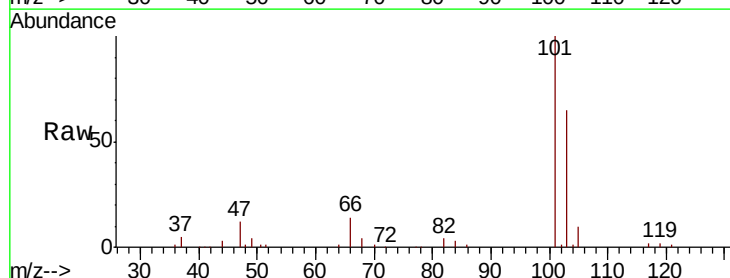
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

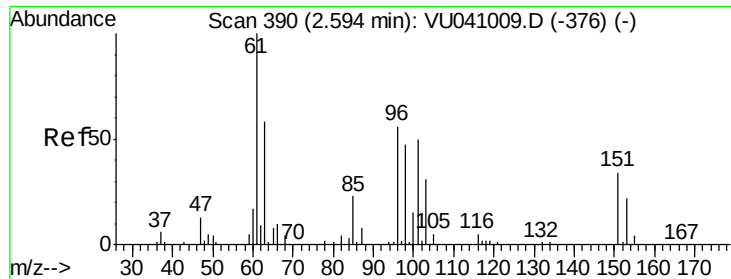
Tot Ion: 64 Resp: 31721
 Ion Ratio Lower Upper
 64 100
 66 30.6 23.4 43.6



#9
 Trichlorofluoromethane
 Concen: 4.906 ug/L
 RT: 2.15 min Scan# 252
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion: 101 Resp: 71695
 Ion Ratio Lower Upper
 101 100
 103 65.2 51.0 76.4





#10

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

Concen: 5.055 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

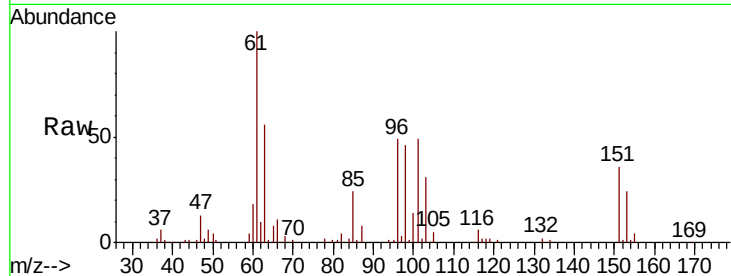
Tot Ion:101 Resp: 42844

Ion Ratio Lower Upper

101 100

85 47.1 38.1 57.1

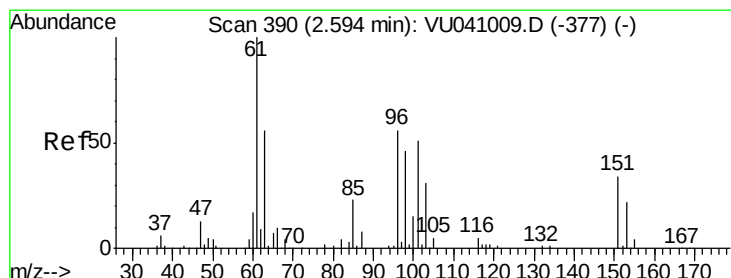
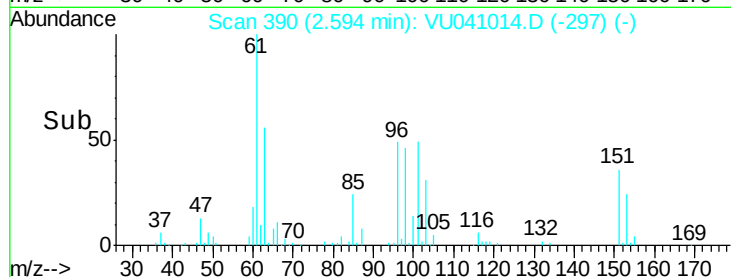
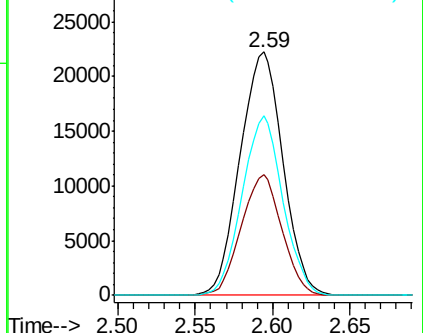
151 70.1 56.0 84.0



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: 4.798 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

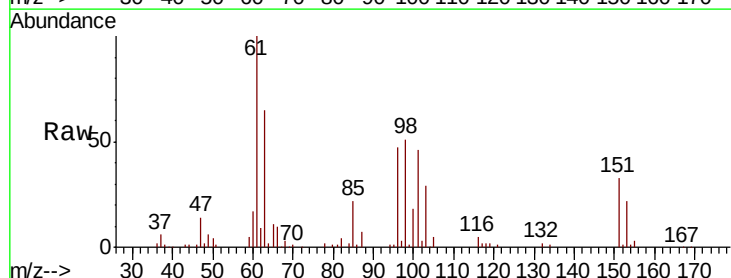
Tgt Ion: 96 Resp: 38733

Ion Ratio Lower Upper

96 100

61 210.7 130.2 241.8

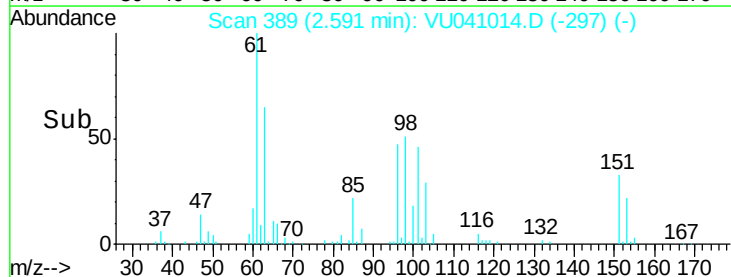
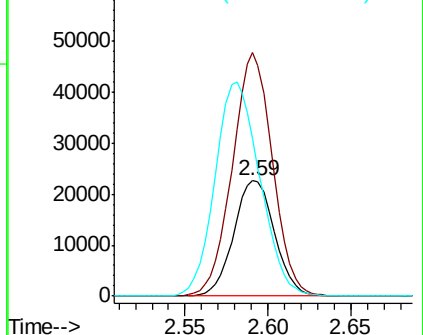
63 137.0 83.7 155.5

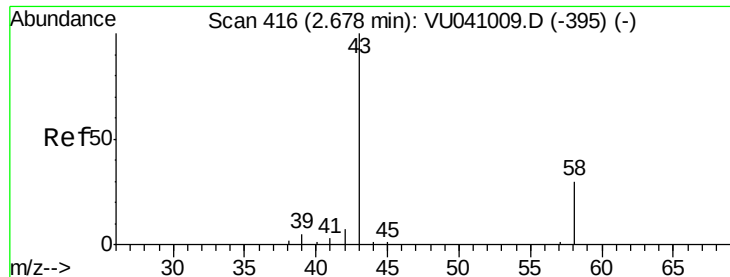


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 55.140 ug/L

RT: 2.68 min Scan# 416

Delta R.T. 0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

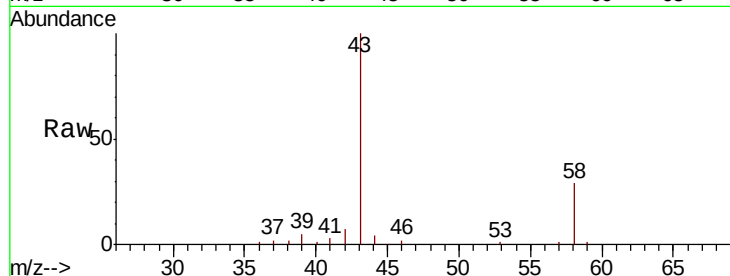
VSTD00512

Tot Ion: 43 Resp: 115520

Ion Ratio Lower Upper

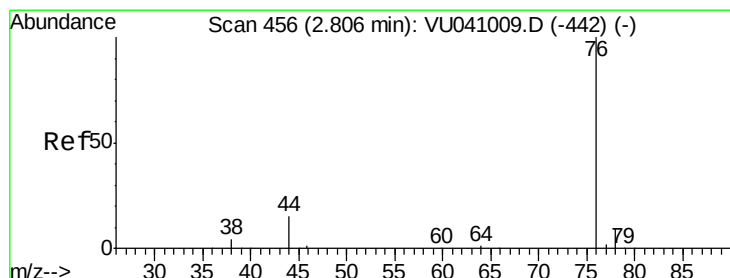
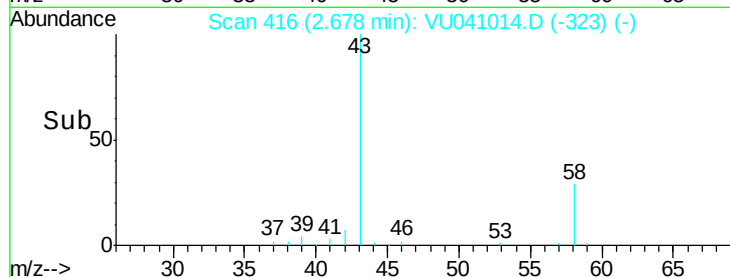
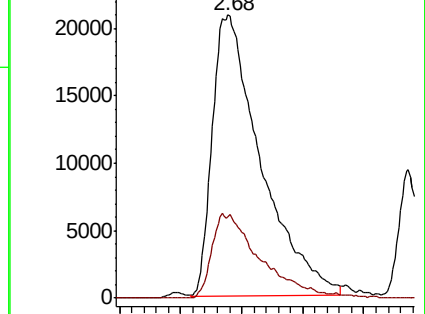
43 100

58 9.1 0.0 30.8



Abundance Ion 43.05 (42.75 to 43.75): VU041009.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU041009.D (-395) (-)



#14

Carbon disulfide

Concen: 5.000 ug/L

RT: 2.81 min Scan# 456

Delta R.T. 0.00 min

Lab File: VU041014.D

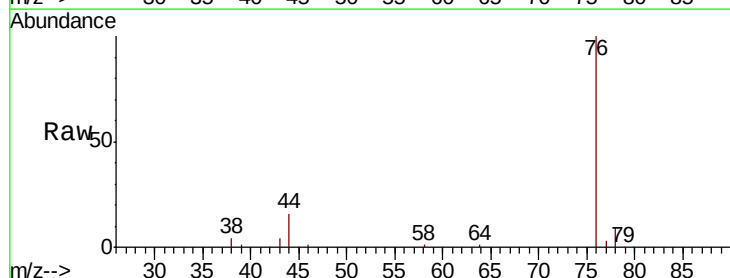
Acq: 29 Oct 2020 13:22

Tgt Ion: 76 Resp: 128499

Ion Ratio Lower Upper

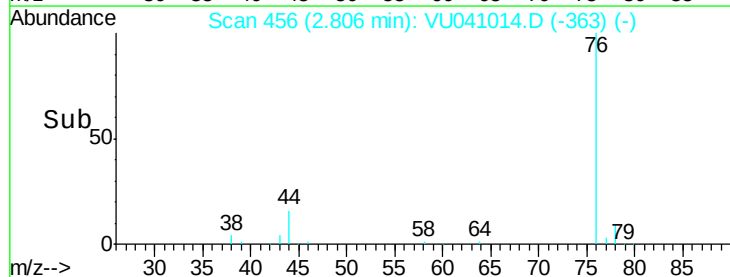
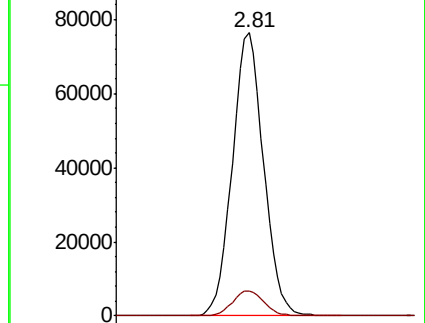
76 100

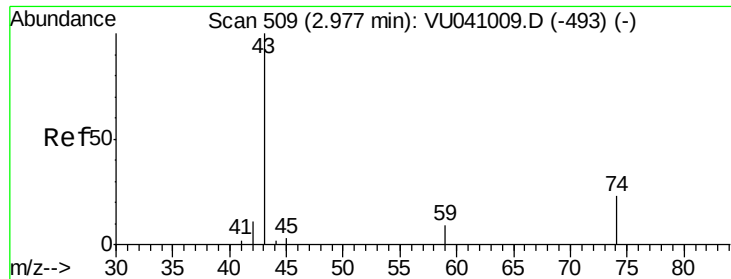
78 8.7 7.7 11.5



Abundance Ion 76.05 (75.75 to 76.75): VU041009.D (-442) (-)

Ion 78.00 (77.70 to 78.70): VU041009.D (-442) (-)





#15

Methvl Acetate

Concen: 5.080 ug/L

RT: 2.97 min Scan# 508

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

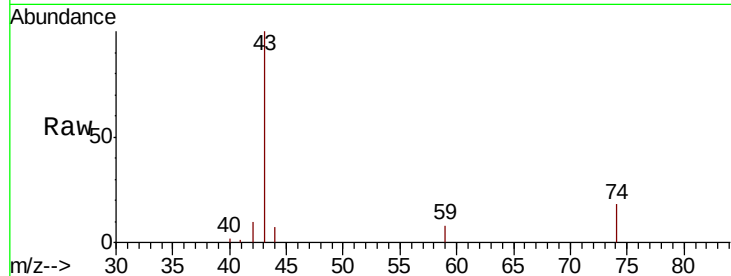
VSTD00512

Tot Ion: 43 Resp: 24907

Ion Ratio Lower Upper

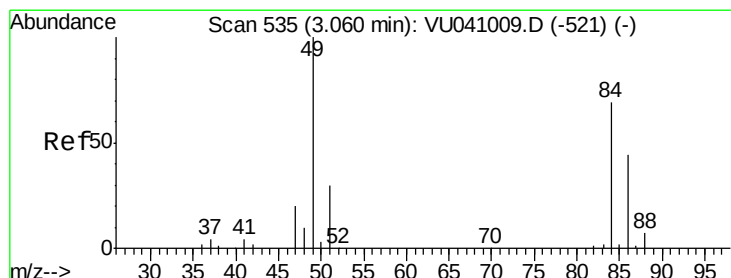
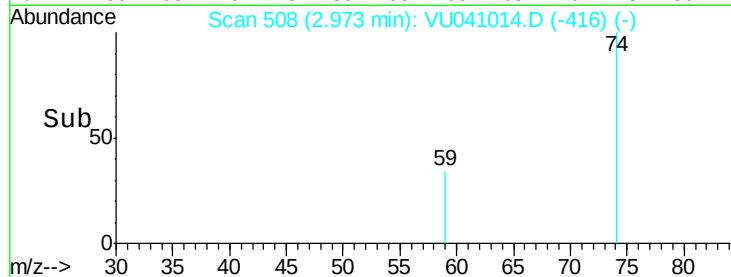
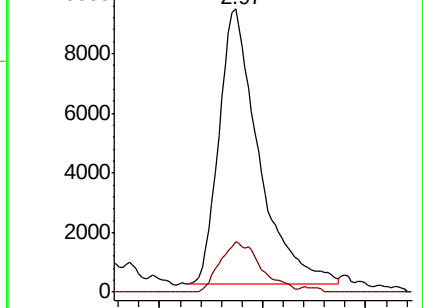
43 100

74 18.7 15.6 23.4



Abundance Ion 43.05 (42.75 to 43.75): VU041009.D (-493) (-)

Ion 74.05 (73.75 to 74.75): VU041009.D (-493) (-)



#16

Methylene chloride

Concen: 4.917 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

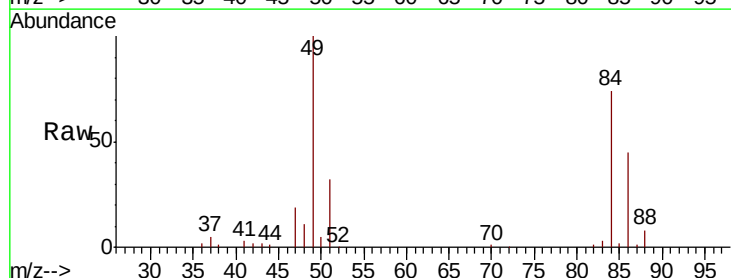
Tgt Ion: 84 Resp: 47388

Ion Ratio Lower Upper

84 100

86 61.7 44.2 82.0

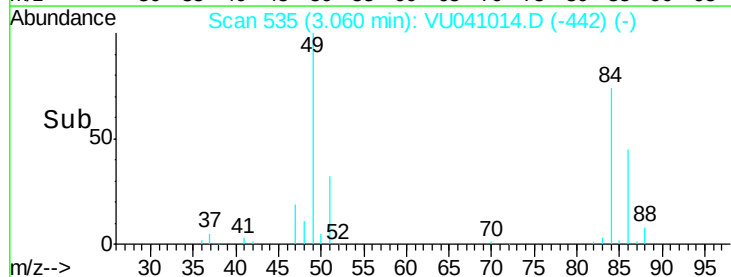
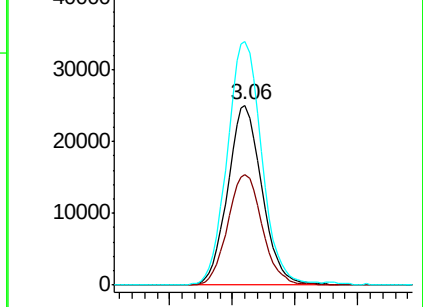
49 135.5 99.3 184.3

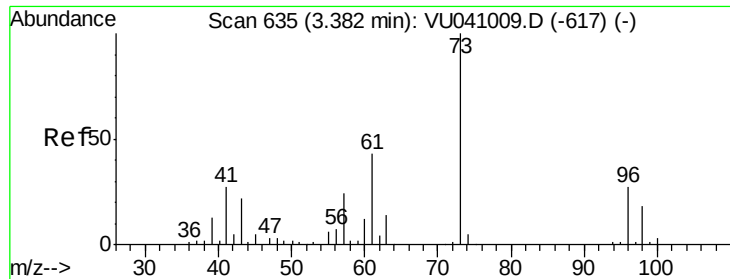


Abundance Ion 84.05 (83.75 to 84.75): VU041009.D (-521) (-)

Ion 86.00 (85.70 to 86.70): VU041009.D (-521) (-)

Ion 49.10 (48.80 to 49.80): VU041009.D (-521) (-)

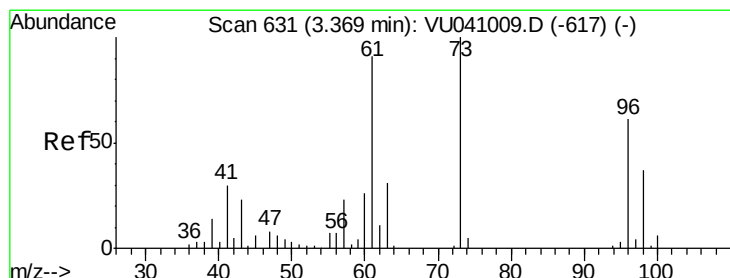
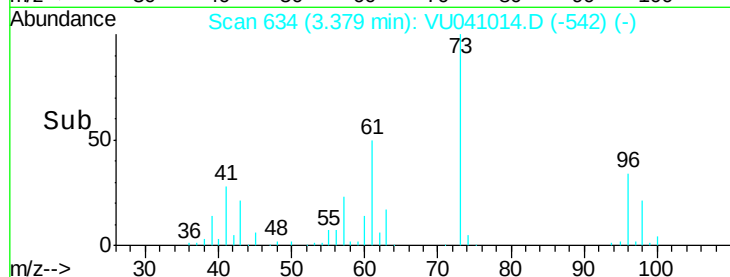
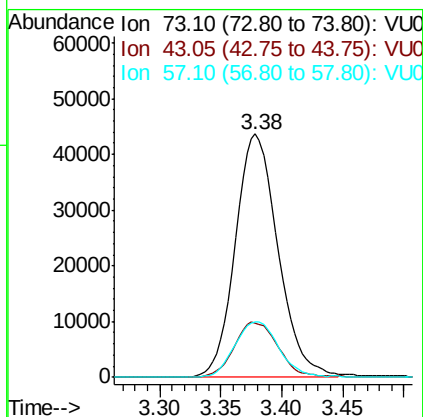
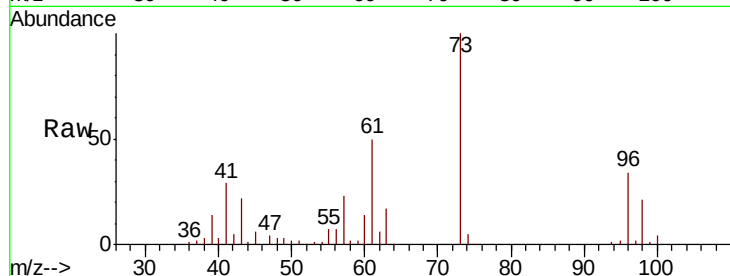




#17
Methyl tert-butyl Ether
Concen: 5.035 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU041014.D
Acq: 29 Oct 2020 13:22

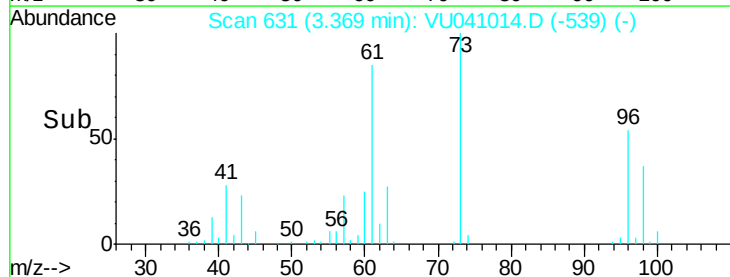
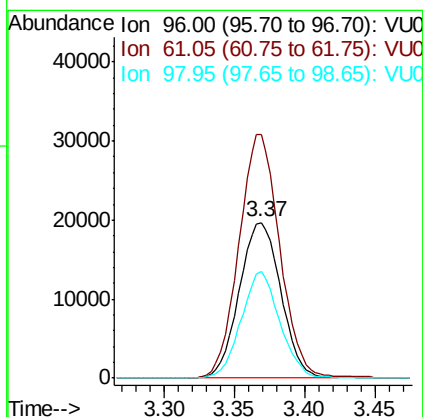
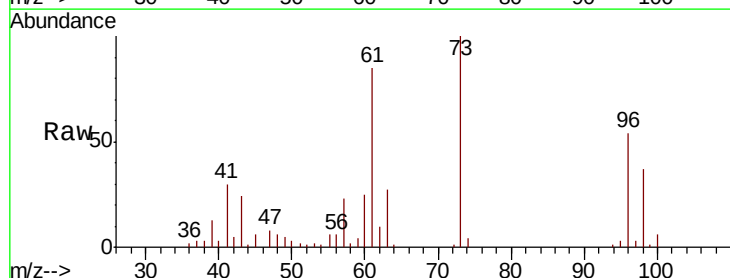
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

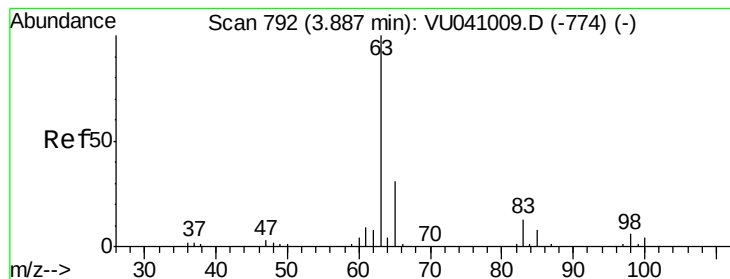
Tot Ion: 73 Resp: 105928
Ion Ratio Lower Upper
73 100
43 23.6 19.5 29.3
57 23.6 18.9 28.3



#18
trans-1,2-Dichloroethene
Concen: 4.952 ug/L
RT: 3.37 min Scan# 631
Delta R.T. -0.00 min
Lab File: VU041014.D
Acq: 29 Oct 2020 13:22

Tgt Ion: 96 Resp: 40526
Ion Ratio Lower Upper
96 100
61 156.8 107.2 199.0
98 68.4 44.6 82.8





#19

1,1-Dichloroethane

Concen: 4.947 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

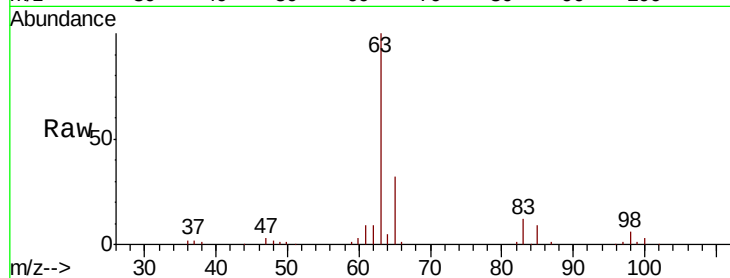
Tot Ion: 63 Resp: 83836

Ion Ratio Lower Upper

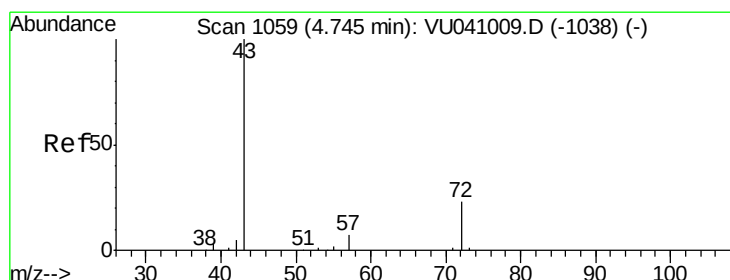
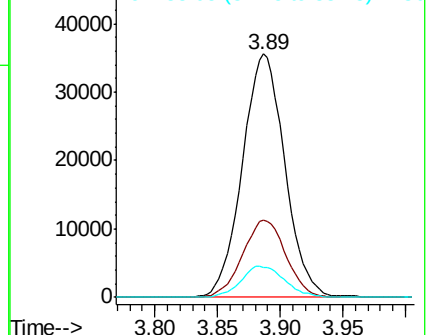
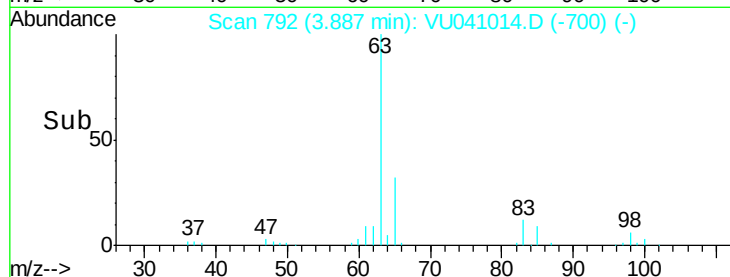
63 100

65 32.0 21.8 40.4

83 12.4 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU041014.D (-700) (-)



#21

2-Butanone

Concen: 55.121 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. -0.00 min

Lab File: VU041014.D

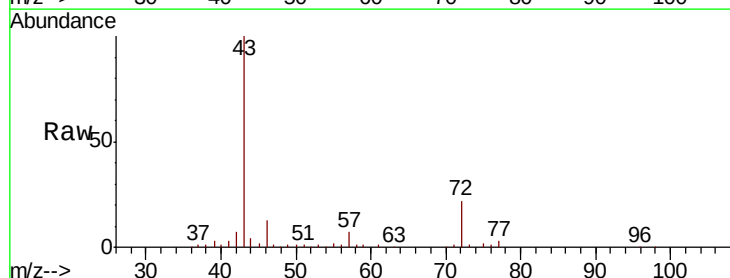
Acq: 29 Oct 2020 13:22

Tgt Ion: 43 Resp: 187371

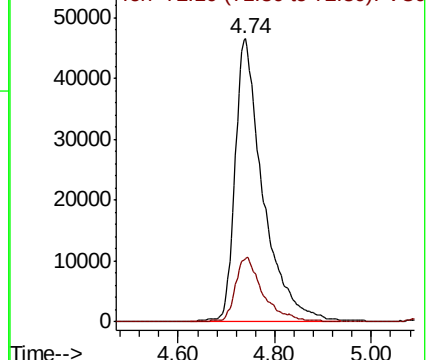
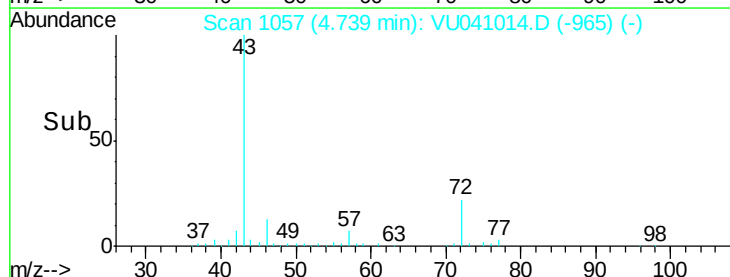
Ion Ratio Lower Upper

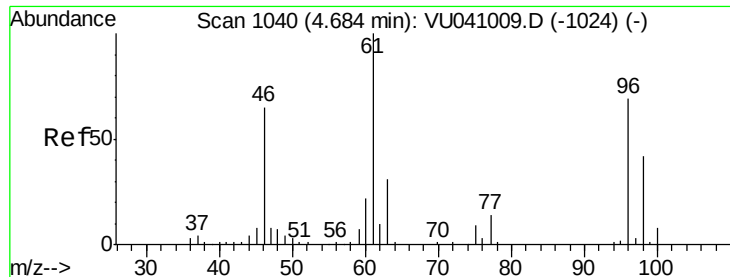
43 100

72 22.4 11.6 34.7



Abundance Ion 43.05 (42.75 to 43.75): VU041014.D (-965) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.752 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

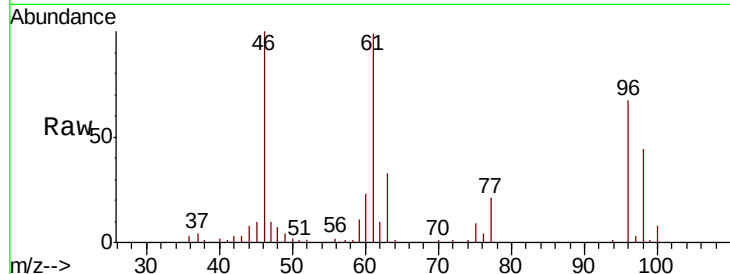
Tot Ion: 96 Resp: 41539

Ion Ratio Lower Upper

96 100

61 147.6 101.7 188.9

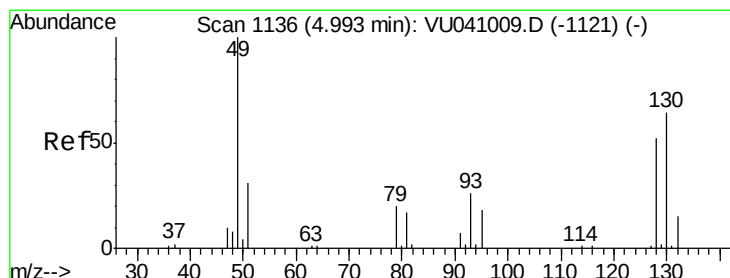
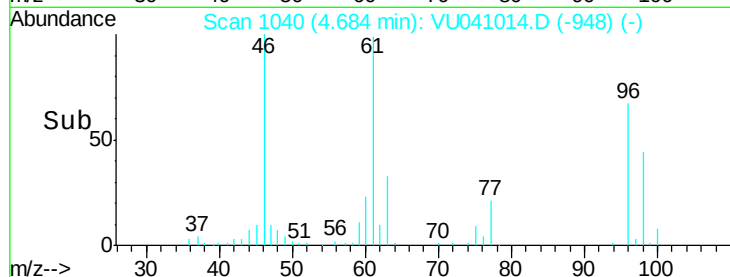
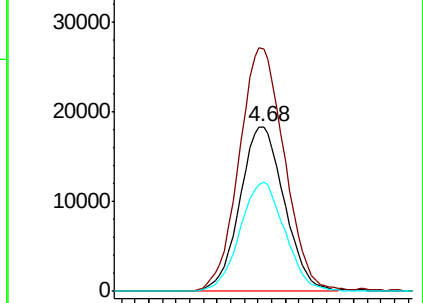
98 66.5 46.4 86.2



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: 5.135 ug/L

RT: 4.99 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Tgt Ion: 128 Resp: 21354

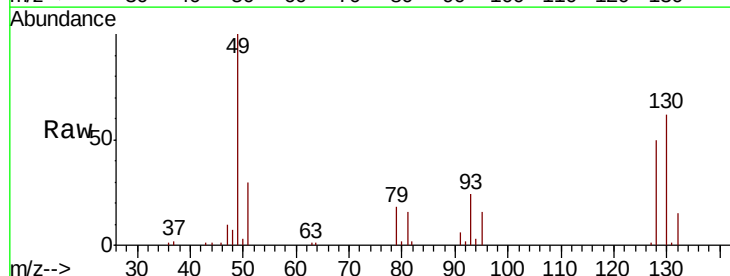
Ion Ratio Lower Upper

128 100

49 198.8 137.5 255.4

130 123.6 90.2 167.4

51 60.5 49.8 74.6

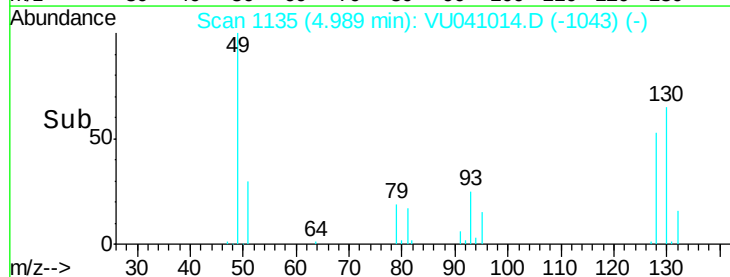
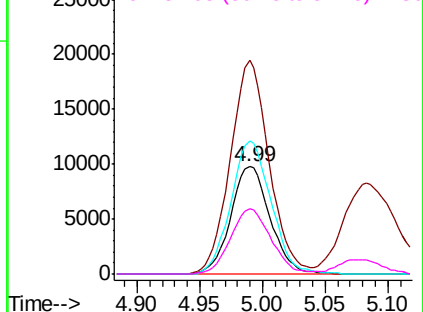


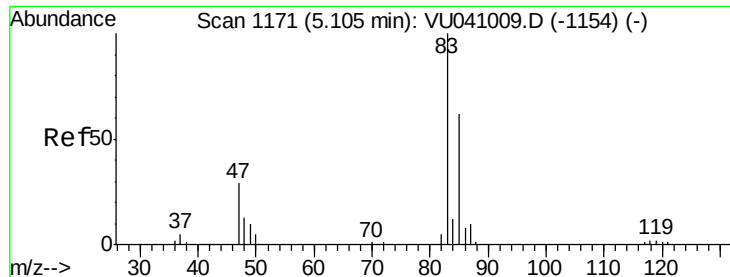
Abundance Ion 127.90 (127.60 to 128.60): V

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

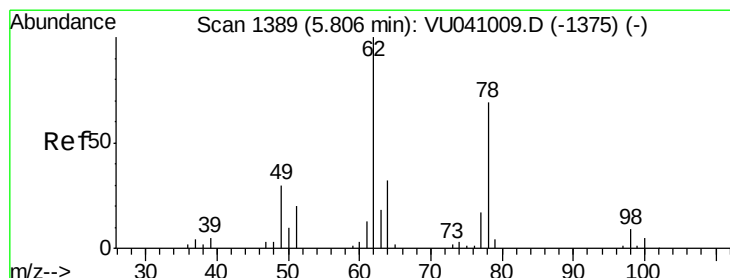
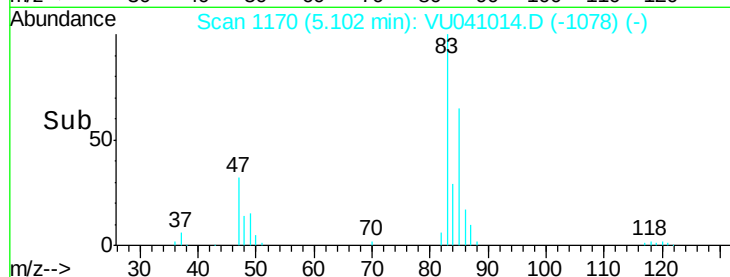
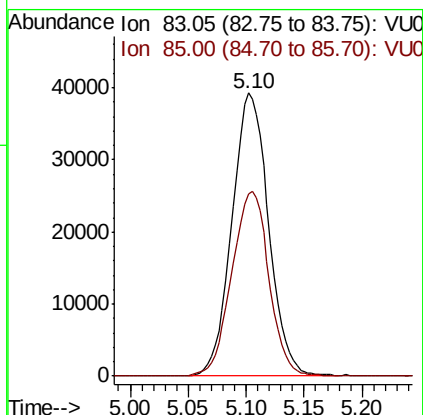
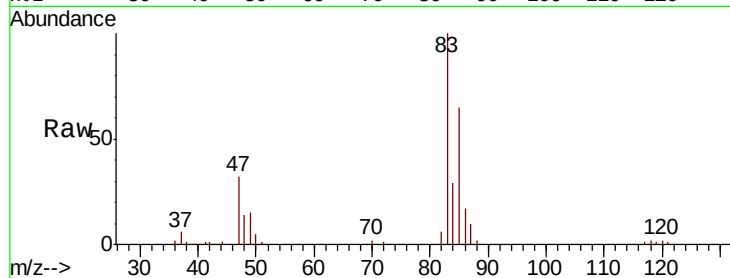




#25
Chloroform
Concen: 4.956 ug/L
RT: 5.10 min Scan# 1170
Delta R.T. -0.00 min
Lab File: VU041014.D
Acq: 29 Oct 2020 13:22

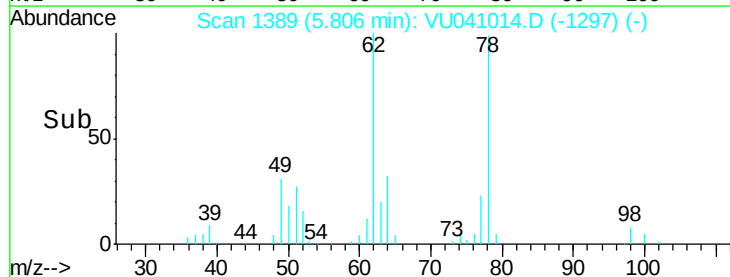
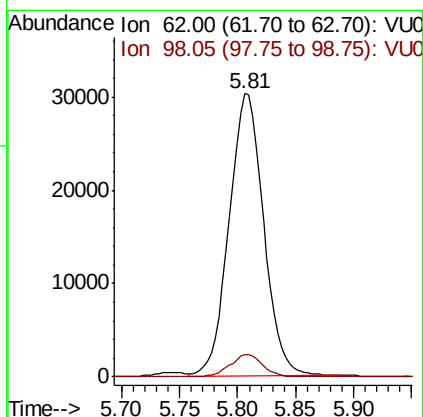
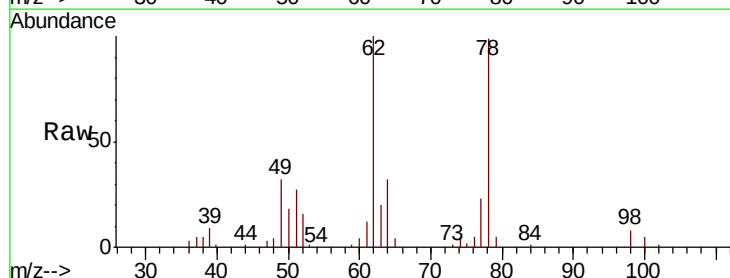
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

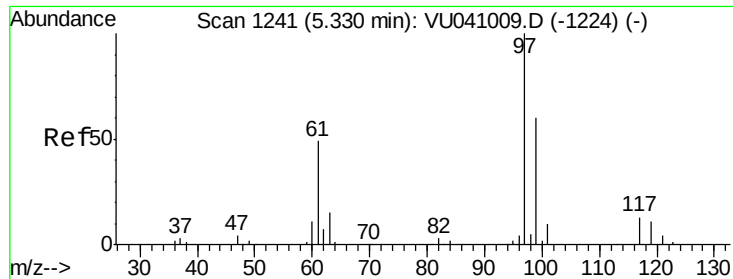
Tot Ion: 83 Resp: 85775
Ion Ratio Lower Upper
83 100
85 64.6 45.5 84.5



#27
1,2-Dichloroethane
Concen: 4.930 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. -0.00 min
Lab File: VU041014.D
Acq: 29 Oct 2020 13:22

Tgt Ion: 62 Resp: 62440
Ion Ratio Lower Upper
62 100
98 7.7 6.1 9.1

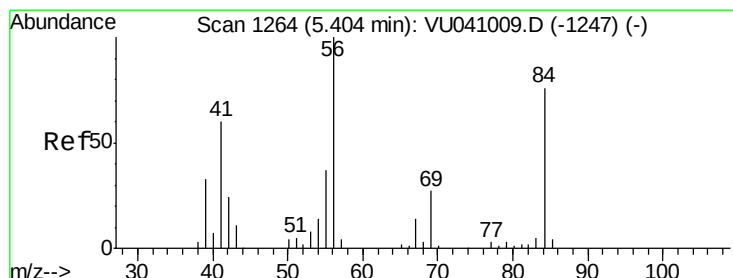
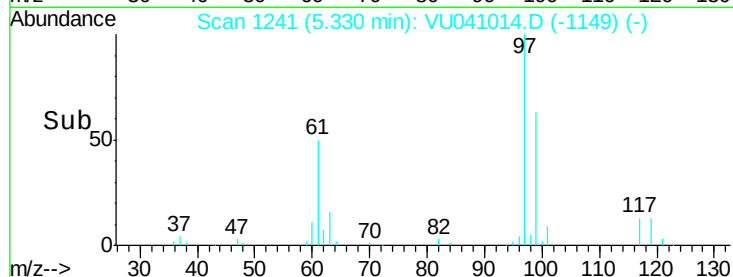
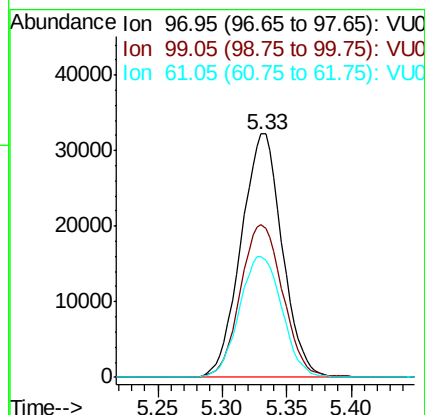
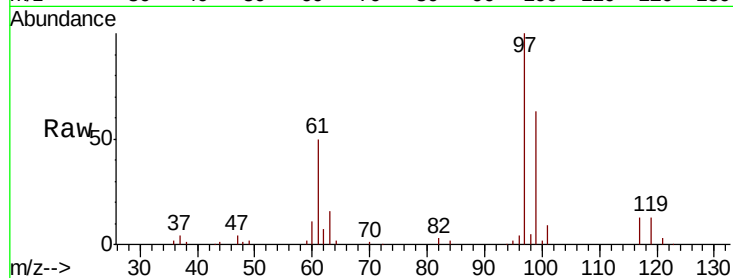




#29
 1,1,1-Trichloroethane
 Concen: 4.874 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

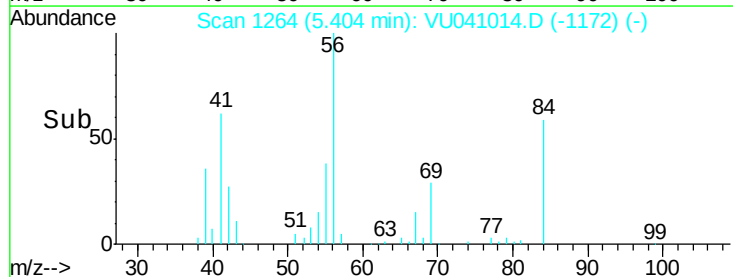
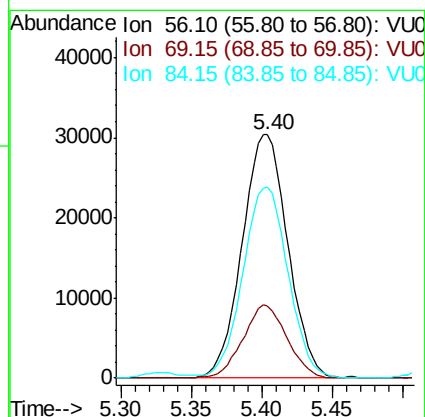
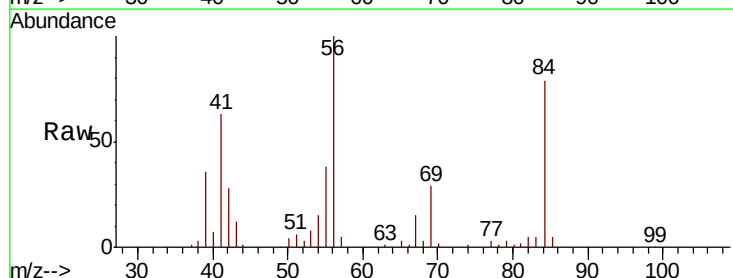
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

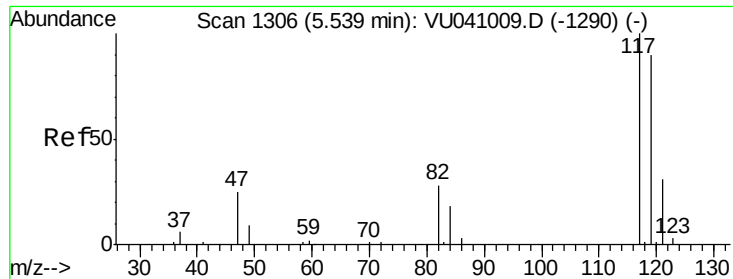
Tot Ion: 97 Resp: 71616
 Ion Ratio Lower Upper
 97 100
 99 64.7 50.2 75.2
 61 51.5 39.6 59.4



#30
 Cyclohexane
 Concen: 5.052 ug/L
 RT: 5.40 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion: 56 Resp: 68806
 Ion Ratio Lower Upper
 56 100
 69 28.8 23.2 34.8
 84 77.7 62.9 94.3





#31

Carbon tetrachloride

Concen: 5.059 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

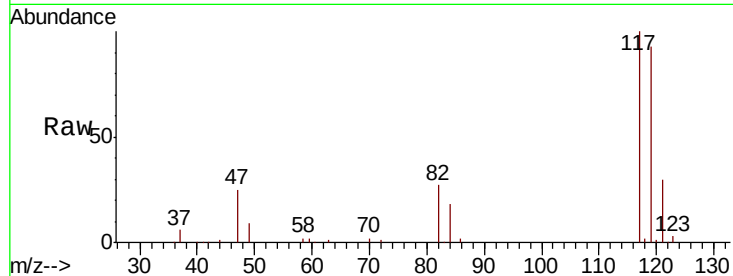
VSTD00512

Tot Ion:117 Resp: 63440

Ion Ratio Lower Upper

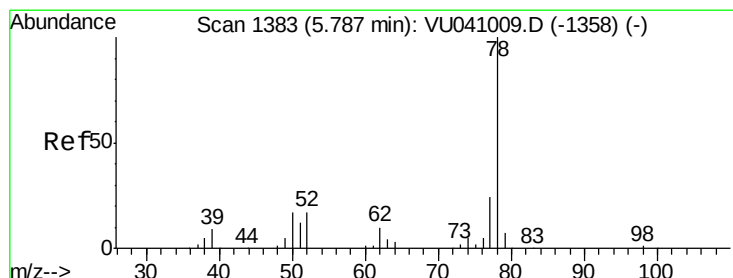
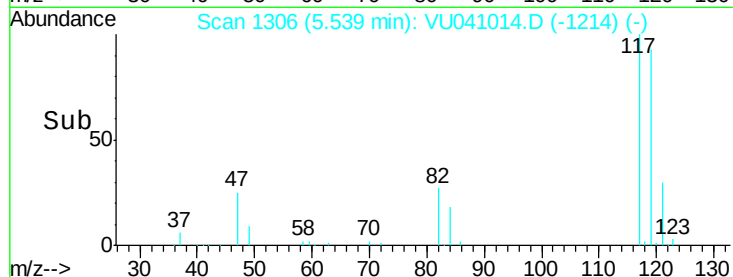
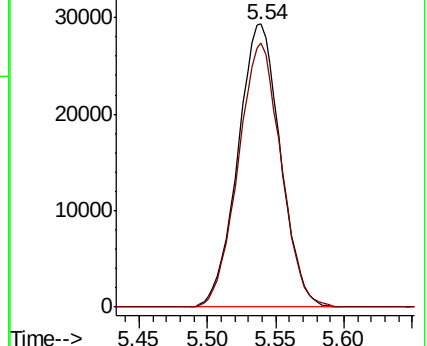
117 100

119 93.8 74.4 111.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.104 ug/L

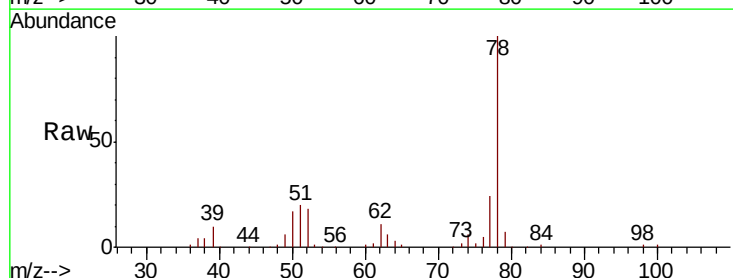
RT: 5.79 min Scan# 1383

Delta R.T. -0.00 min

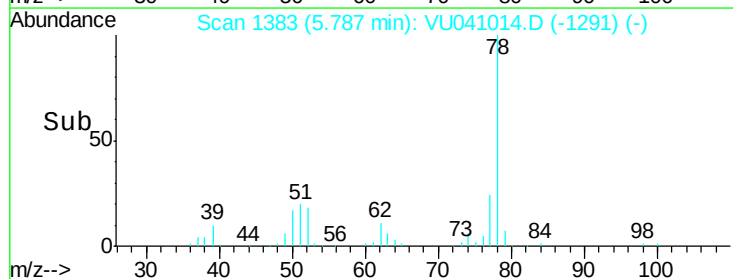
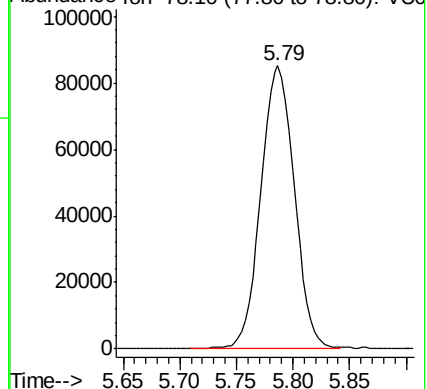
Lab File: VU041014.D

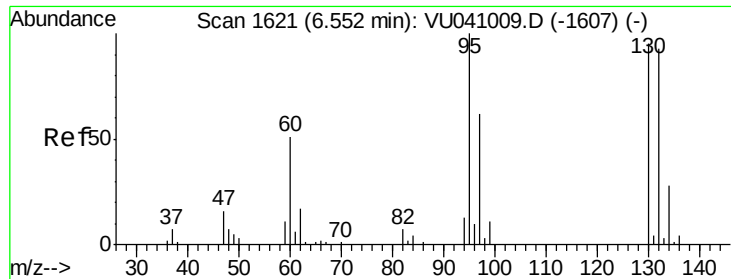
Acq: 29 Oct 2020 13:22

Tgt Ion: 78 Resp: 175659



Abundance Ion 78.10 (77.80 to 78.80): VU0

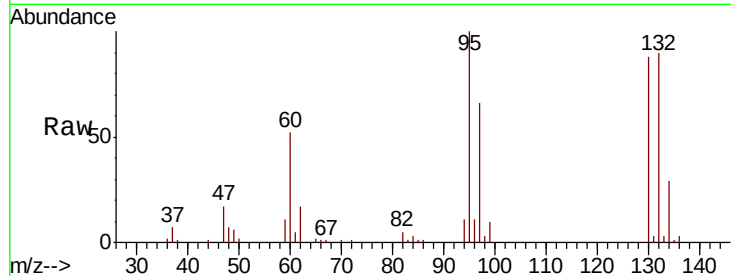




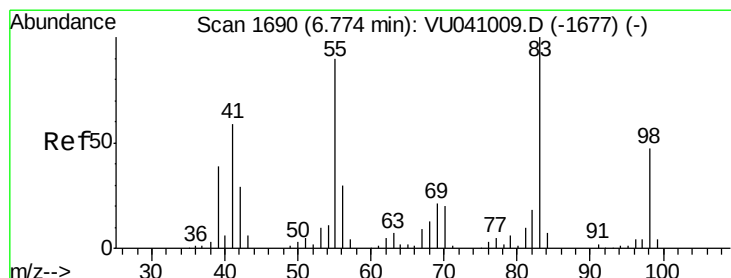
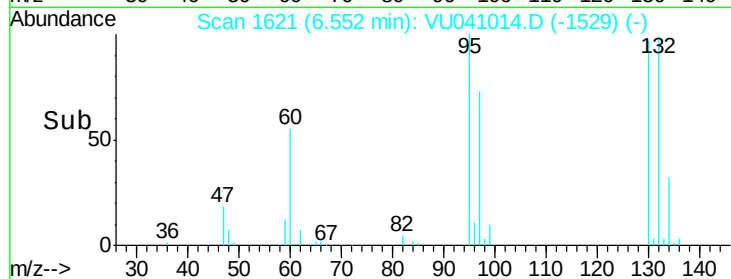
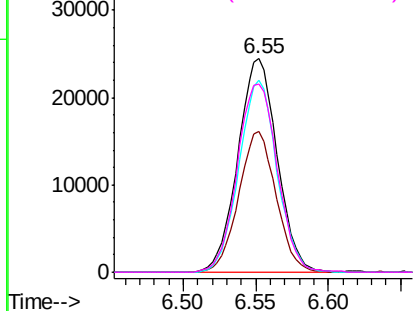
#34
 Trichloroethene
 Concen: 5.029 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion:	95	Resp:	46080
Ion	Ratio	Lower	Upper
95	100		
97	65.8	43.8	81.4
132	89.6	64.5	119.7
130	88.1	67.6	125.6

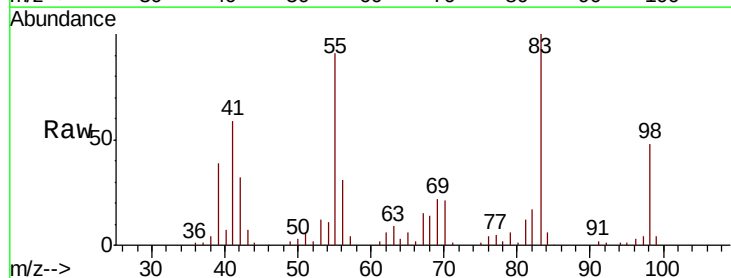


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

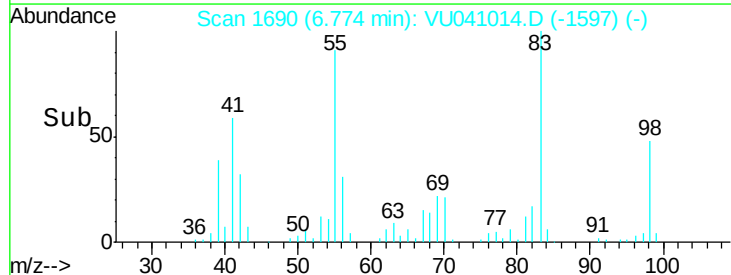
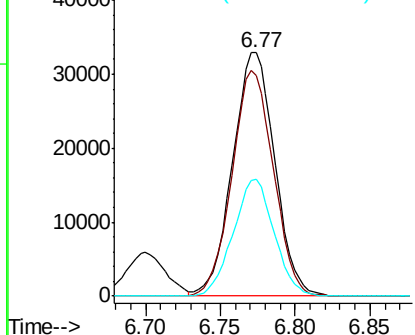


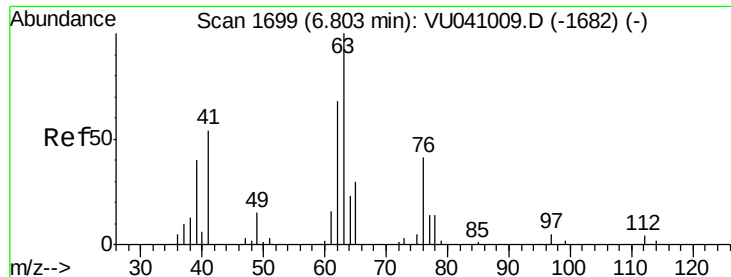
#35
 Methylcyclohexane
 Concen: 5.062 ug/L
 RT: 6.77 min Scan# 1690
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion:	83	Resp:	64573
Ion	Ratio	Lower	Upper
83	100		
55	91.1	72.7	109.1
98	46.6	35.7	53.5



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

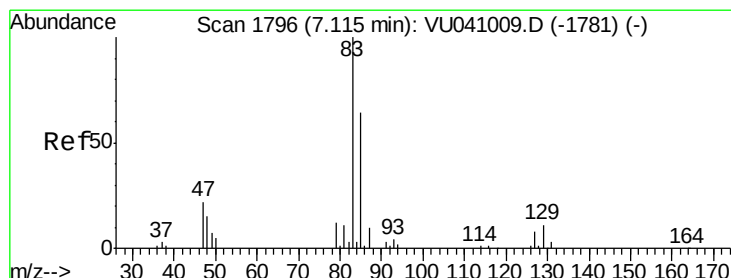
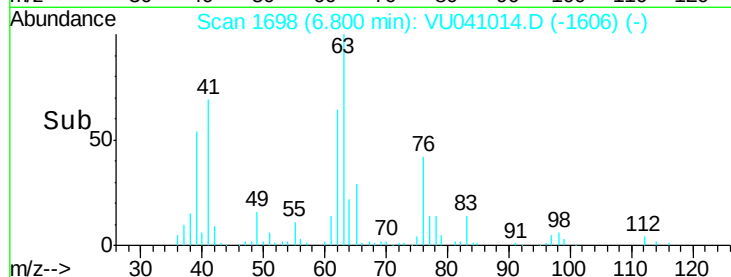
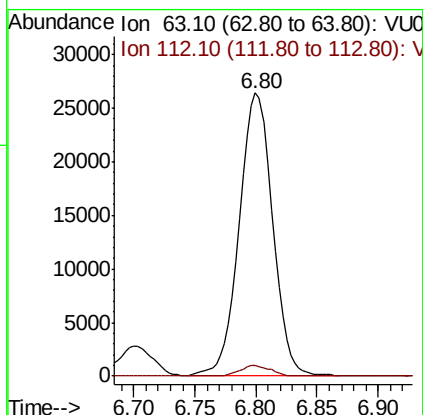
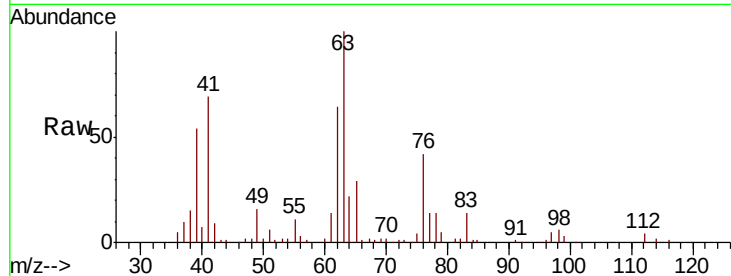




#37
 1,2-Dichloropropane
 Concen: 5.120 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

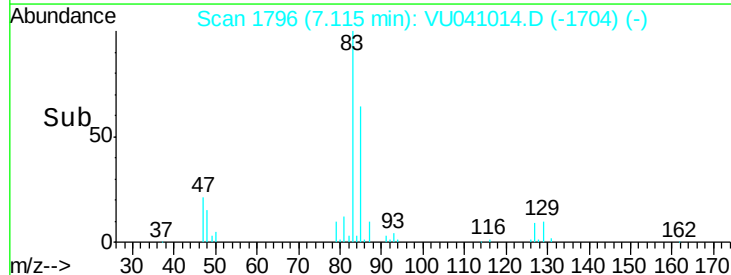
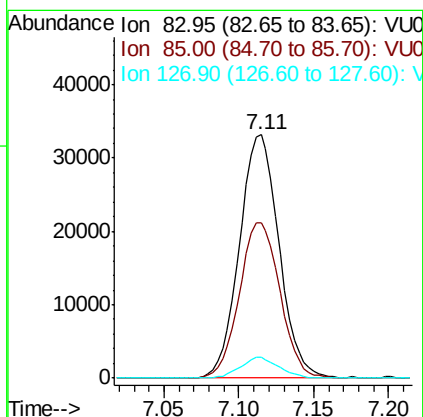
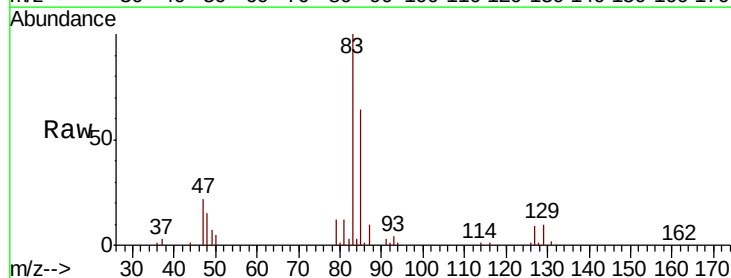
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

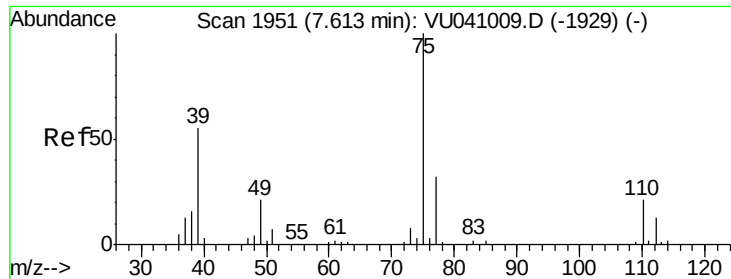
Tot Ion: 63 Resp: 50018
 Ion Ratio Lower Upper
 63 100
 112 3.4 3.0 4.4



#38
 Bromodichloromethane
 Concen: 5.008 ug/L
 RT: 7.11 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion: 83 Resp: 61128
 Ion Ratio Lower Upper
 83 100
 85 63.9 42.9 79.7
 127 8.8 6.2 9.2

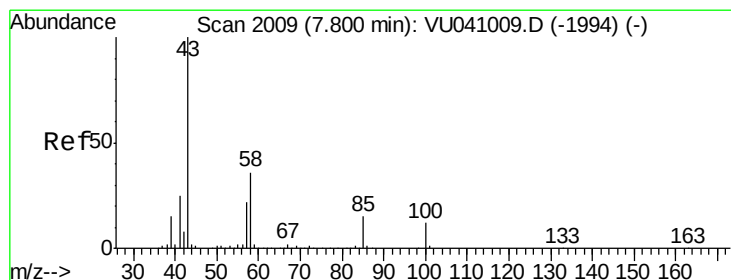
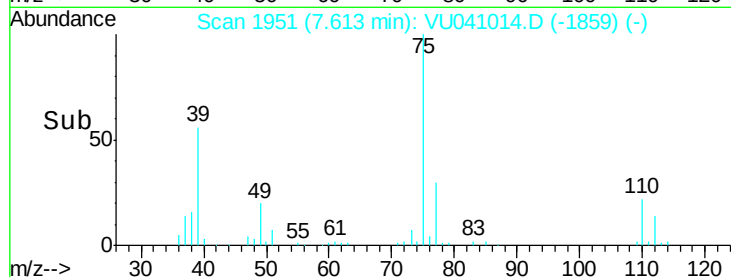
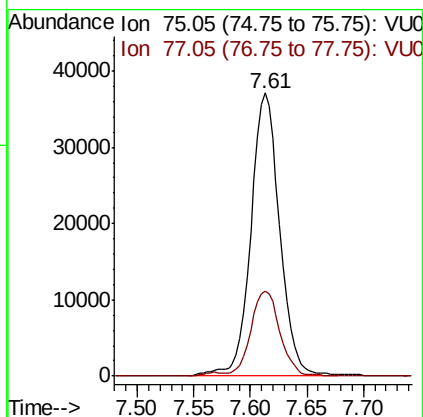
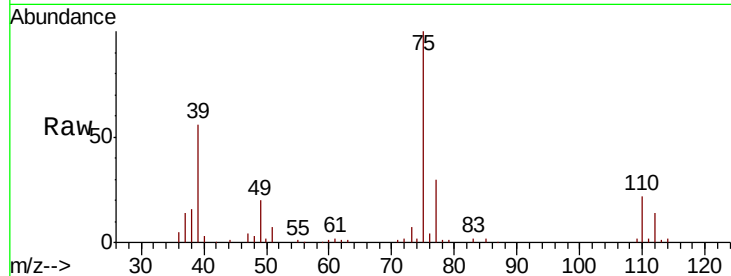




#39
 cis-1,3-Dichloropropene
 Concen: 5.089 ug/L
 RT: 7.61 min Scan# 1951
 Delta R.T. -0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

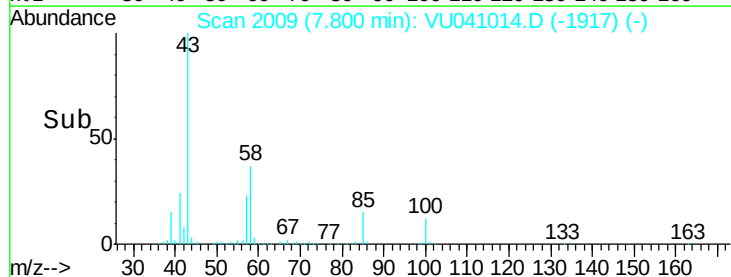
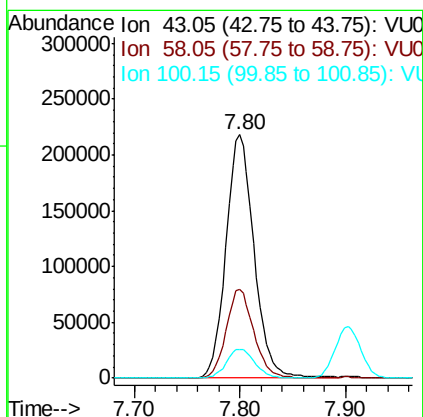
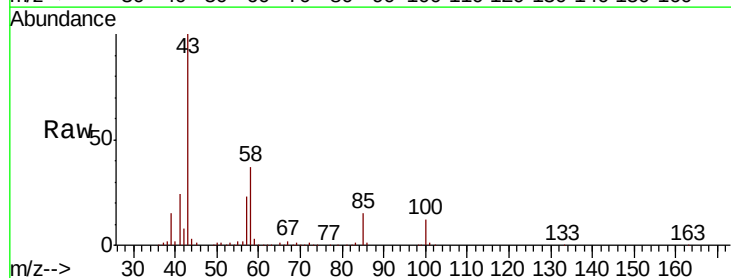
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

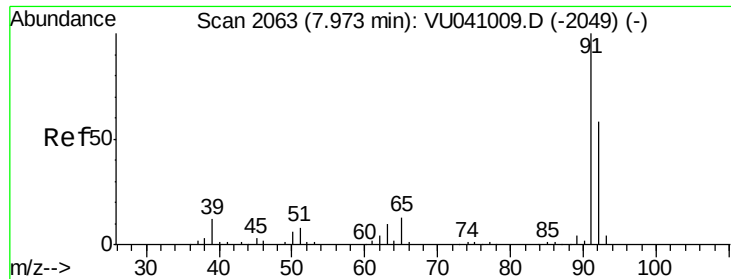
Tot Ion: 75 Resp: 65780
 Ion Ratio Lower Upper
 75 100
 77 29.8 22.7 42.3



#40
 4-Methyl-2-pentanone
 Concen: 54.507 ug/L
 RT: 7.80 min Scan# 2009
 Delta R.T. -0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion: 43 Resp: 402195
 Ion Ratio Lower Upper
 43 100
 58 35.7 28.6 43.0
 100 12.0 9.6 14.4





#42

Toluene

Concen: 5.294 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

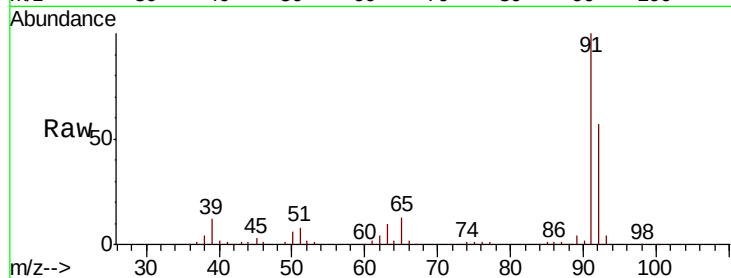
VSTD00512

Tot Ion: 91 Resp: 184219

Ion Ratio Lower Upper

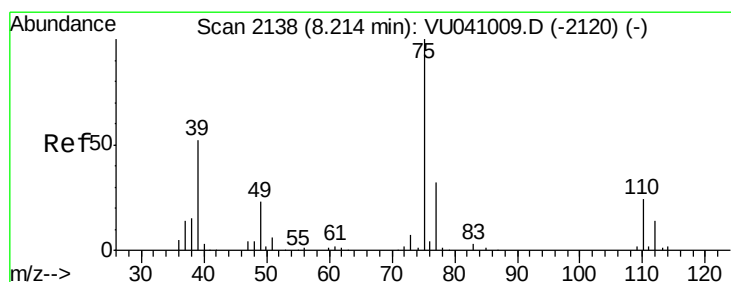
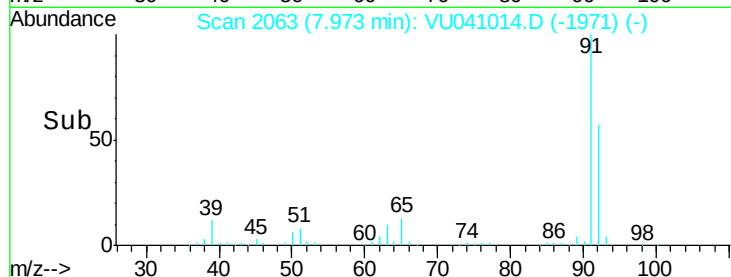
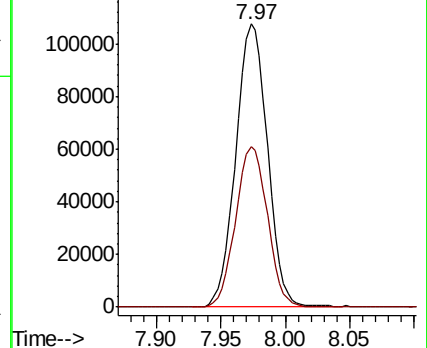
91 100

92 56.7 40.5 75.1



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: 5.161 ug/L

RT: 8.21 min Scan# 2138

Delta R.T. -0.00 min

Lab File: VU041014.D

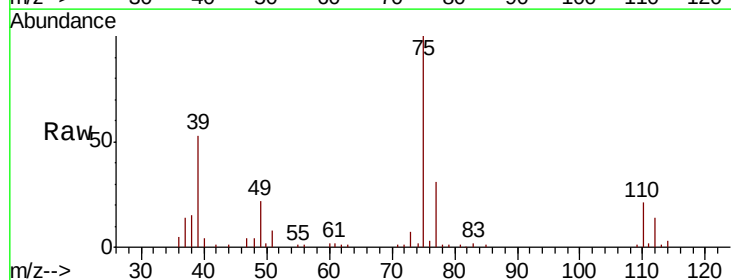
Acq: 29 Oct 2020 13:22

Tgt Ion: 75 Resp: 62159

Ion Ratio Lower Upper

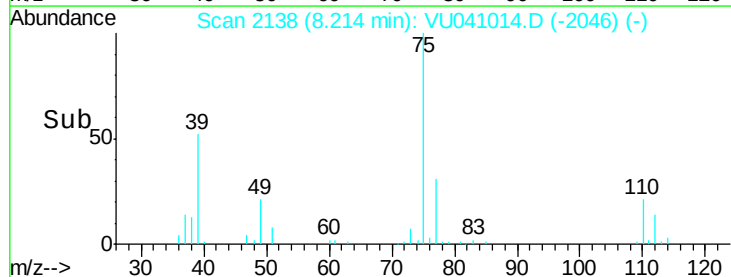
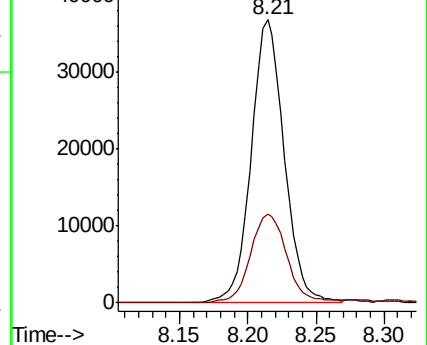
75 100

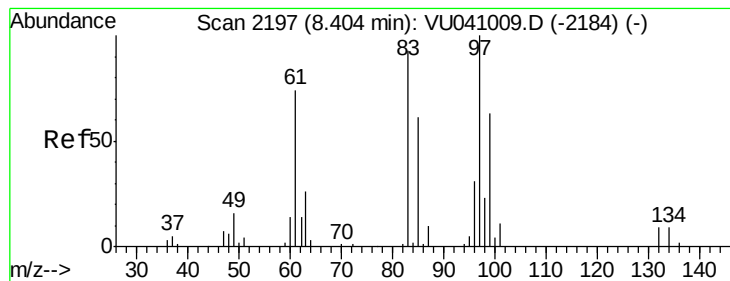
77 31.2 23.0 42.6



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: 5.039 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

Tot Ion: 97 Resp: 35166

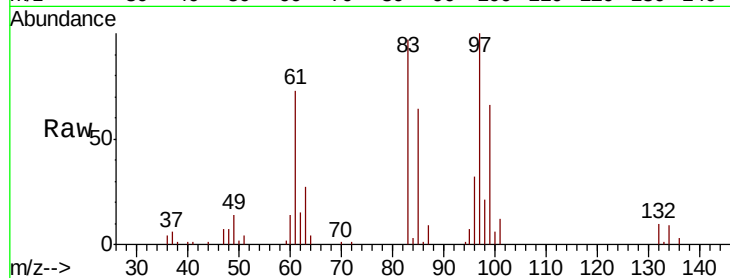
Ion Ratio Lower Upper

97 100

99 66.4 41.8 77.6

83 96.7 62.2 115.6

85 64.5 40.3 74.8

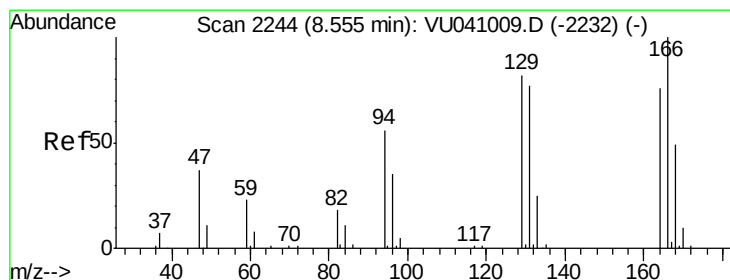
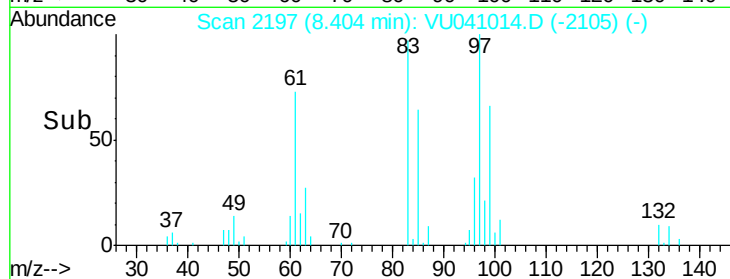
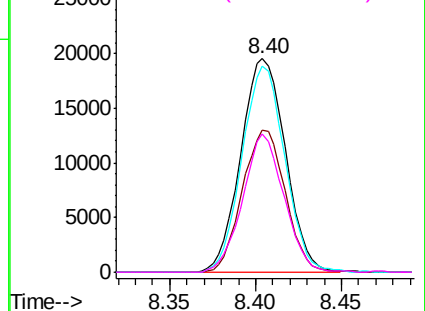


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 5.055 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Tgt Ion: 164 Resp: 32094

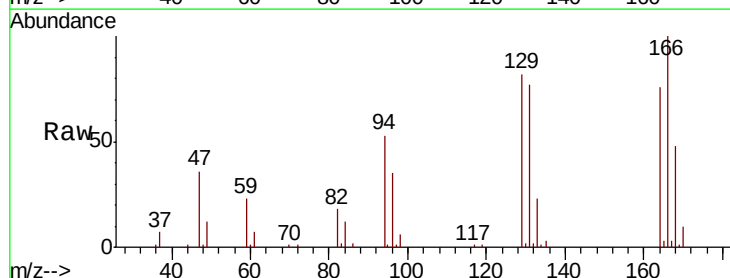
Ion Ratio Lower Upper

164 100

129 107.2 69.9 129.7

131 100.8 65.0 120.6

166 130.7 84.1 156.1

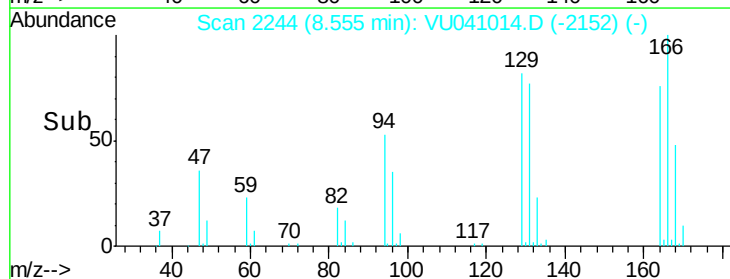
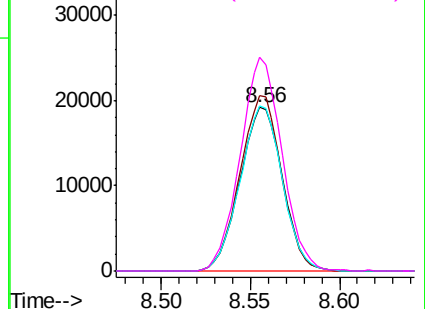


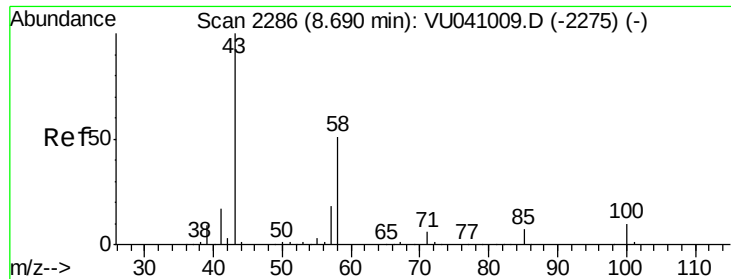
Abundance Ion 163.90 (163.60 to 164.60): V

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

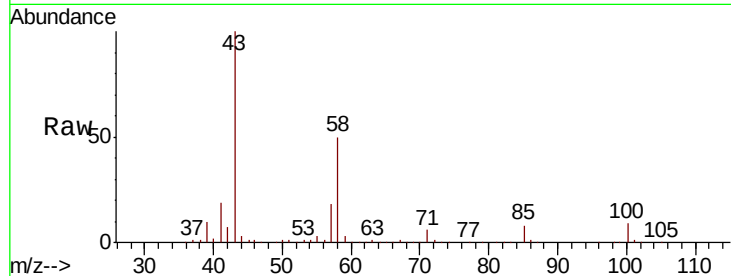




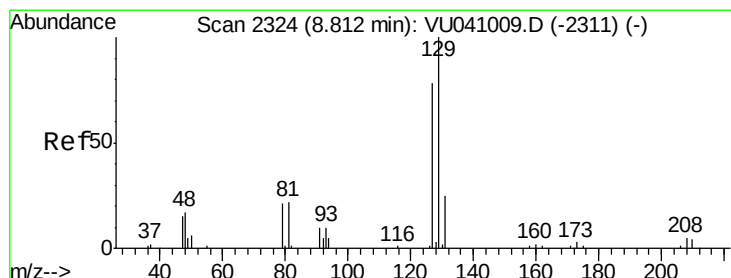
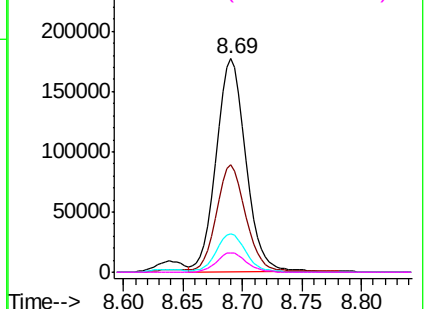
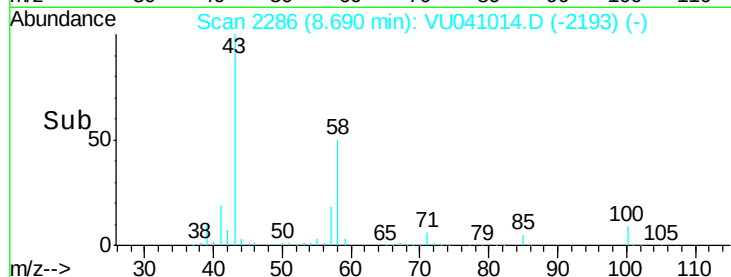
#48
2-Hexanone
Concen: 55.294 ug/L
RT: 8.69 min Scan# 2286
Delta R.T. 0.00 min
Lab File: VU041014.D
Acq: 29 Oct 2020 13:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tot Ion:	43	Resp:	306087
Ion	Ratio	Lower	Upper
43	100		
58	50.6	39.9	59.9
57	17.8	14.1	21.1
100	9.3	7.5	11.3

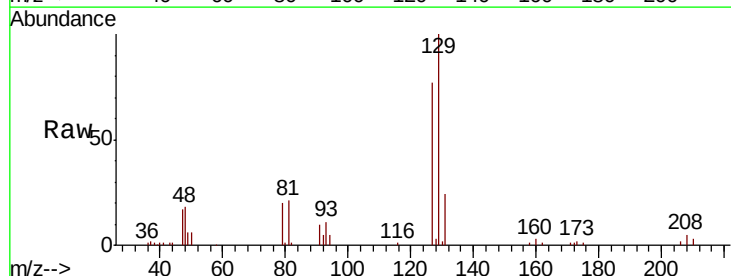


Abundance Ion 43.05 (42.75 to 43.75): VU041014.D (-2193) (-)
Ion 58.05 (57.75 to 58.75): VU041014.D (-2193) (-)
Ion 57.20 (56.90 to 57.90): VU041014.D (-2193) (-)
Ion 100.15 (99.85 to 100.85): VU041014.D (-2193) (-)

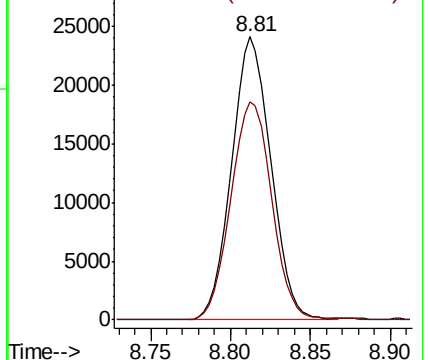
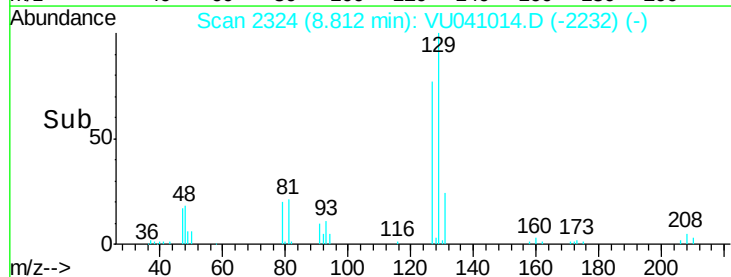


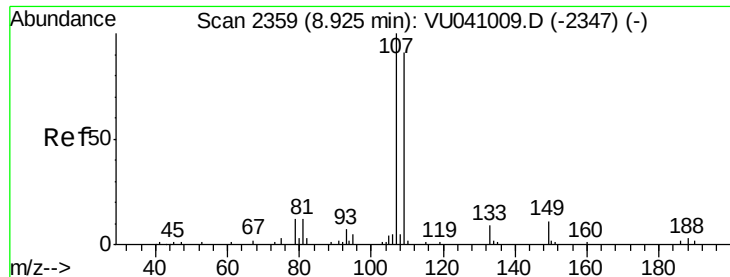
#49
Dibromochloromethane
Concen: 5.014 ug/L
RT: 8.81 min Scan# 2324
Delta R.T. -0.00 min
Lab File: VU041014.D
Acq: 29 Oct 2020 13:22

Tgt Ion:	129	Resp:	40355
Ion	Ratio	Lower	Upper
129	100		
127	76.9	55.3	102.7



Abundance Ion 128.95 (128.65 to 129.65): VU041014.D (-2232) (-)
Ion 126.90 (126.60 to 127.60): VU041014.D (-2232) (-)

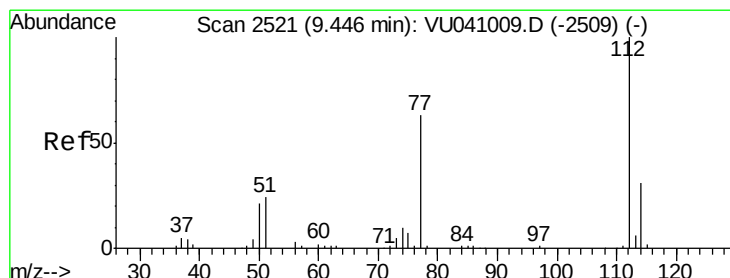
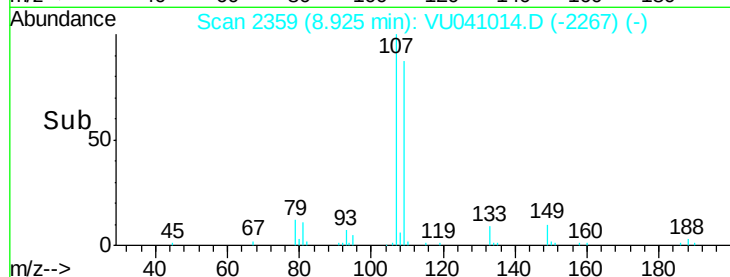
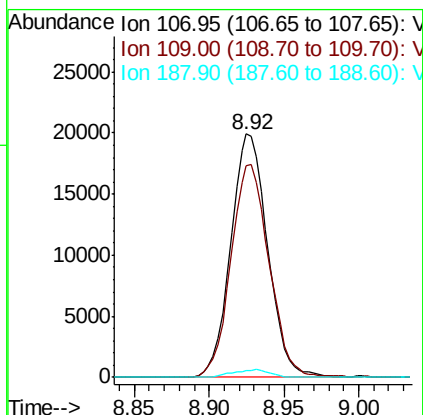
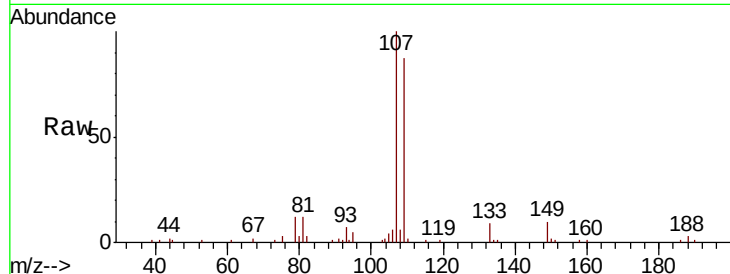




#50
1,2-Dibromoethane
Concen: 5.231 ug/L
RT: 8.92 min Scan# 2359
Delta R.T. -0.00 min
Lab File: VU041014.D
Acq: 29 Oct 2020 13:22

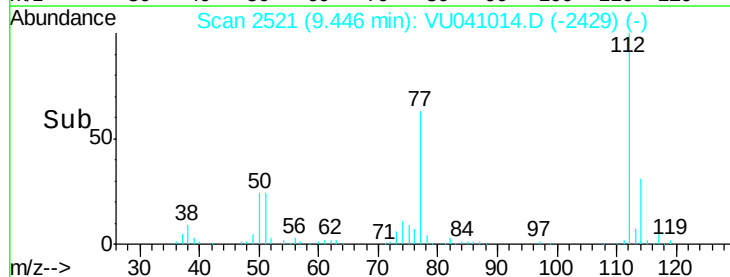
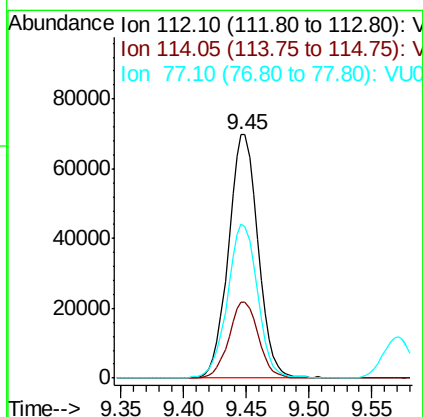
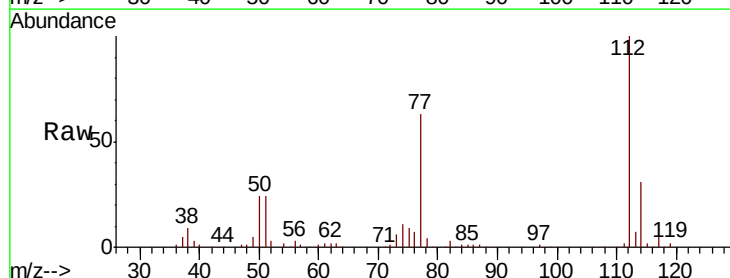
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

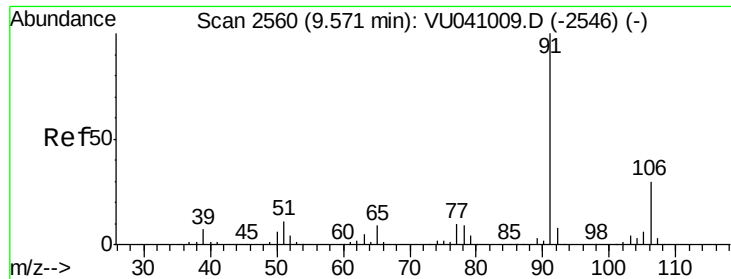
Tot Ion:107 Resp: 34179
Ion Ratio Lower Upper
107 100
109 87.1 67.1 124.5
188 2.6 2.3 3.5



#51
Chlorobenzene
Concen: 5.125 ug/L
RT: 9.45 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VU041014.D
Acq: 29 Oct 2020 13:22

Tgt Ion:112 Resp: 114396
Ion Ratio Lower Upper
112 100
114 31.0 21.9 40.7
77 63.3 51.4 77.2





#52

Ethylbenzene

Concen: 5.226 ug/L

RT: 9.57 min Scan# 2560

Delta R.T. 0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

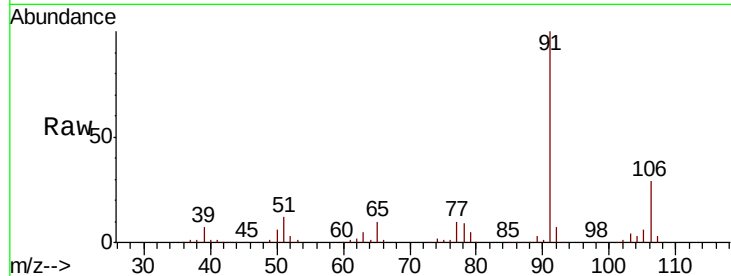
VSTD00512

Tot Ion: 91 Resp: 188738

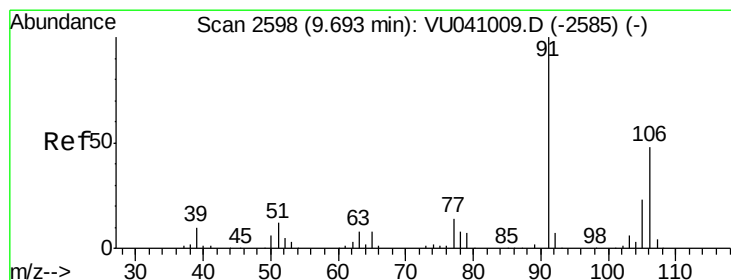
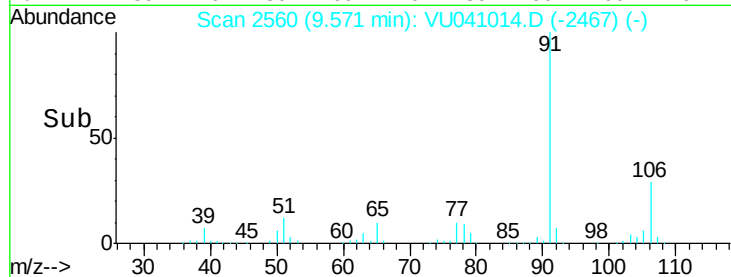
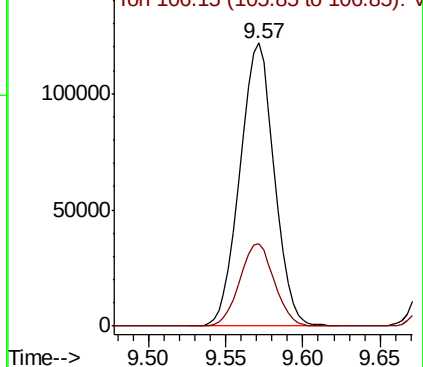
Ion Ratio Lower Upper

91 100

106 29.1 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VU041014.D (-2546) (-)



#53

m,p-Xylene

Concen: 5.266 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VU041014.D

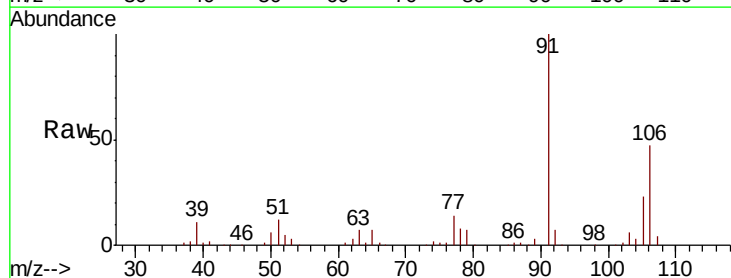
Acq: 29 Oct 2020 13:22

Tgt Ion: 106 Resp: 68808

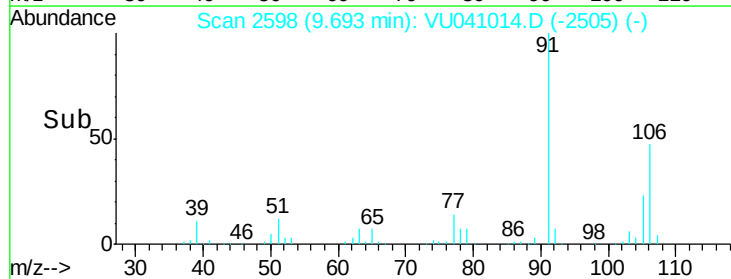
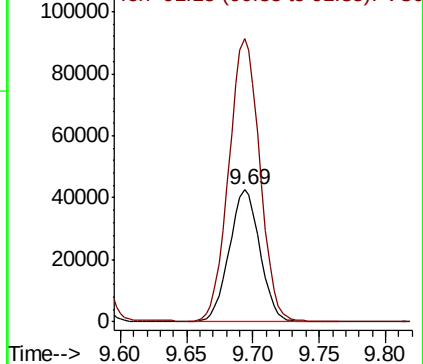
Ion Ratio Lower Upper

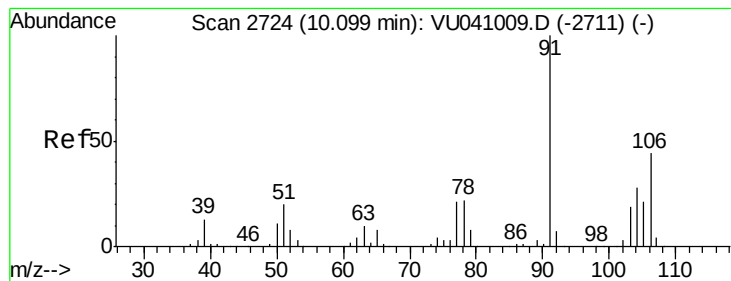
106 100

91 214.5 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): VU041014.D (-2585) (-)





#54

o-Xylene

Concen: 5.298 ug/L

RT: 10.10 min Scan# 2724

Delta R.T. 0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

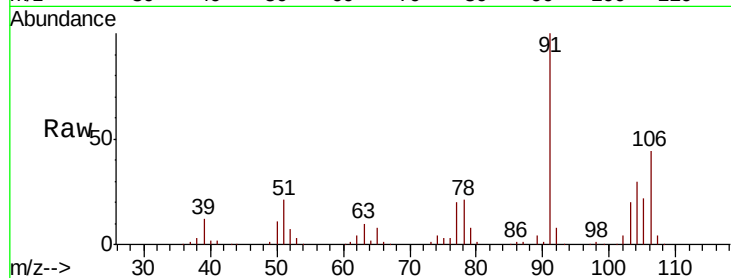
VSTD00512

Tot Ion:106 Resp: 66204

Ion Ratio Lower Upper

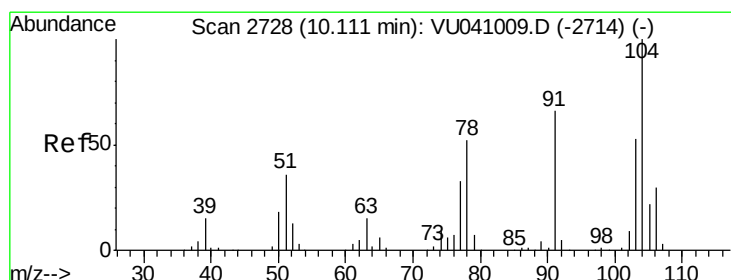
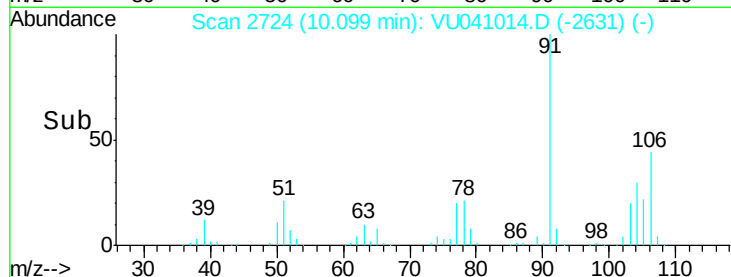
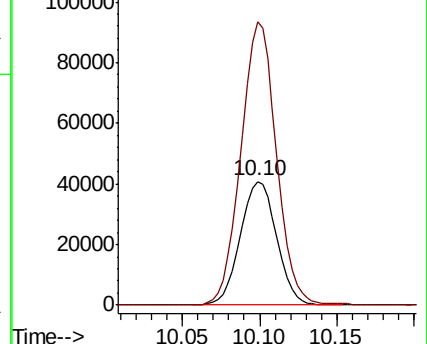
106 100

91 229.3 158.3 294.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.402 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU041014.D

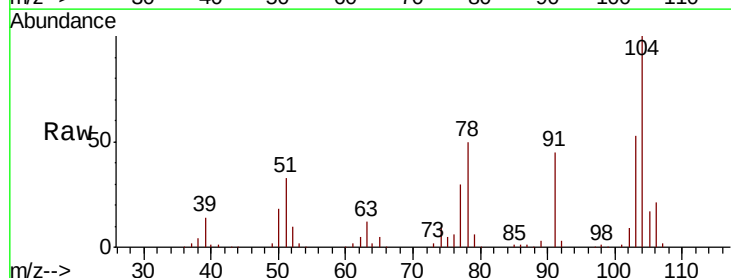
Acq: 29 Oct 2020 13:22

Tgt Ion:104 Resp: 117228

Ion Ratio Lower Upper

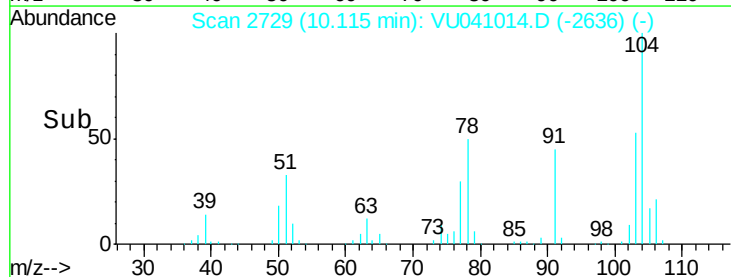
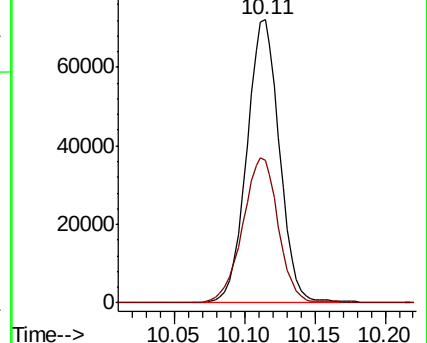
104 100

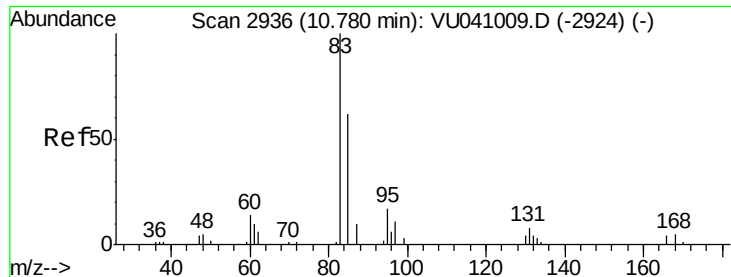
78 50.3 35.6 66.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0

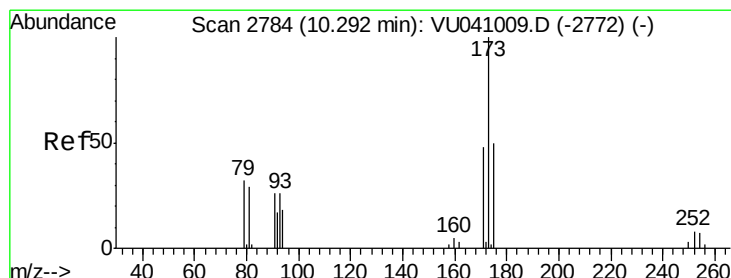
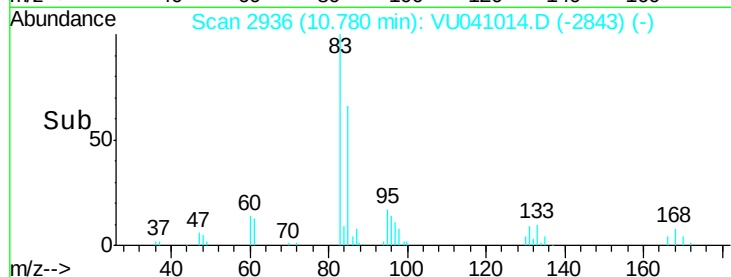
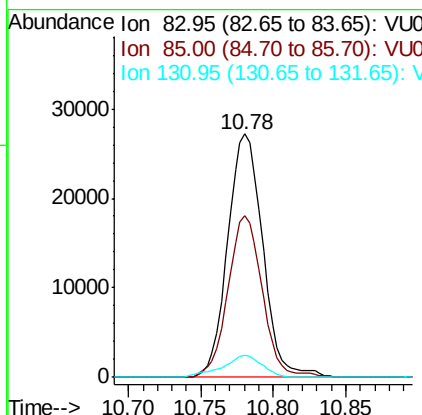
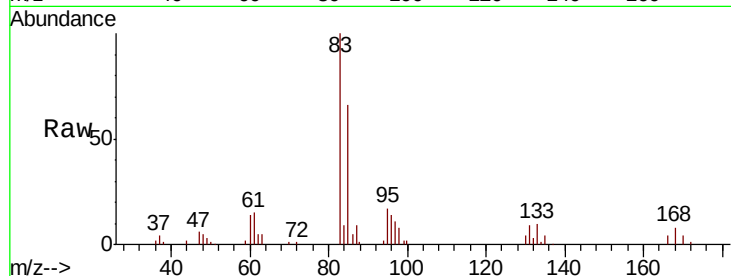




#57
 1,1,2,2-Tetrachloroethane
 Concen: 5.068 ug/L
 RT: 10.78 min Scan# 2936
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

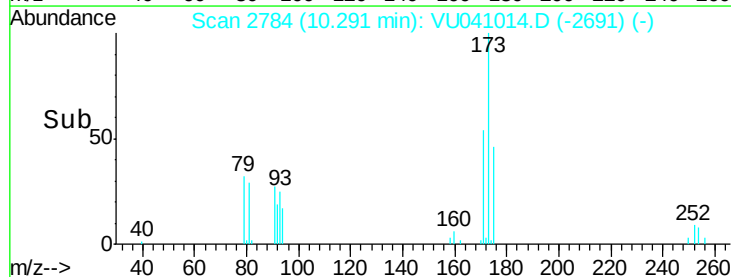
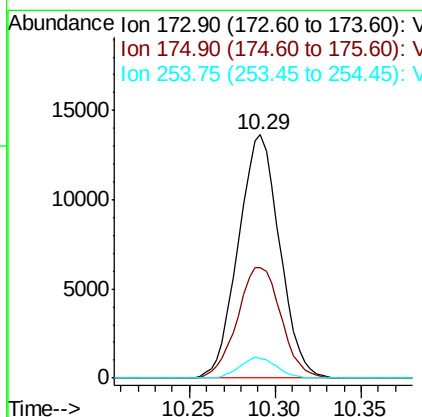
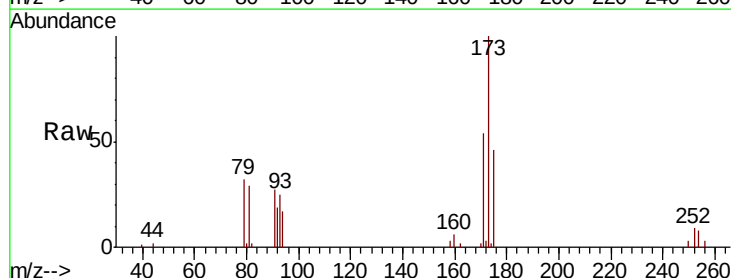
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

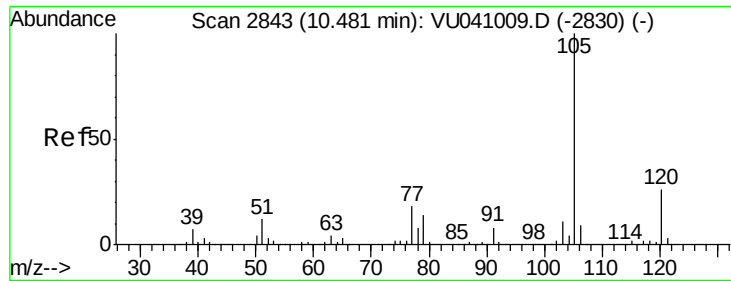
Tot Ion: 83 Resp: 45627
 Ion Ratio Lower Upper
 83 100
 85 66.4 42.1 78.3
 131 9.3 6.7 10.1



#59
 Bromoform
 Concen: 4.796 ug/L
 RT: 10.29 min Scan# 2784
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion: 173 Resp: 22757
 Ion Ratio Lower Upper
 173 100
 175 48.0 36.7 55.1
 254 7.6 6.5 9.7





#60

Isopropylbenzene

Concen: 5.046 ug/L

RT: 10.48 min Scan# 2843

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampled :

VSTD00512

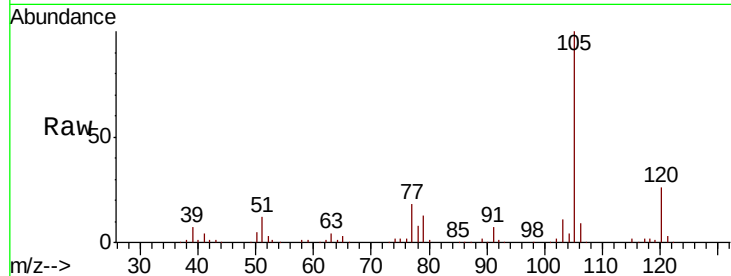
Tot Ion:105 Resp: 178206

Ion Ratio Lower Upper

105 100

120 25.9 20.2 30.4

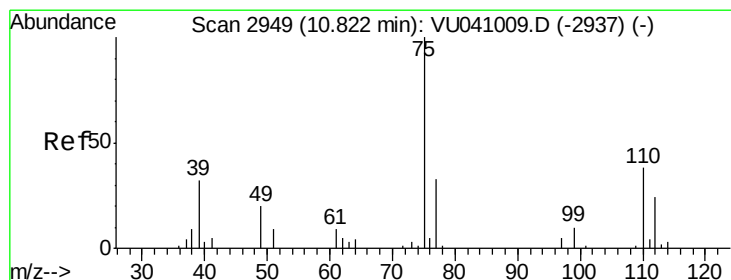
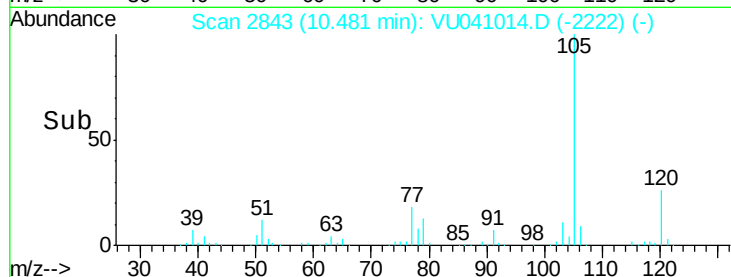
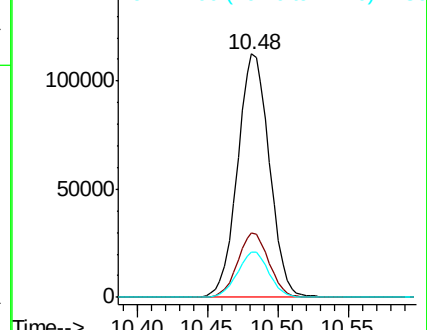
77 18.3 14.4 21.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 4.838 ug/L

RT: 10.82 min Scan# 2948

Delta R.T. -0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

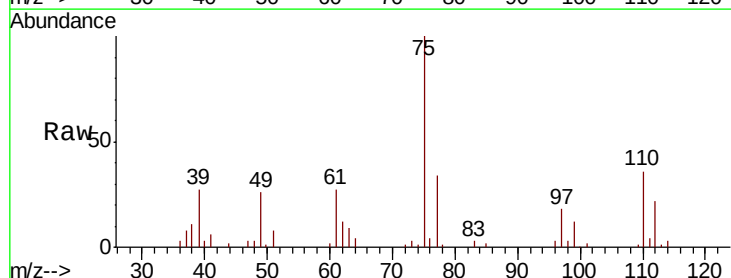
Tgt Ion: 75 Resp: 35509

Ion Ratio Lower Upper

75 100

110 35.4 27.5 41.3

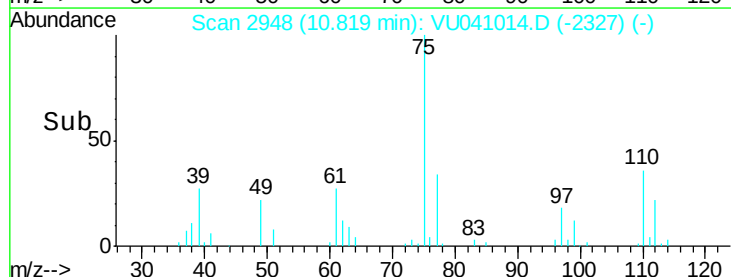
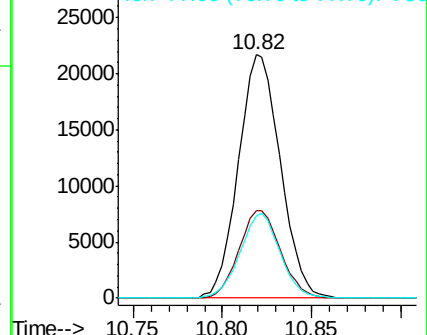
77 32.9 24.9 37.3

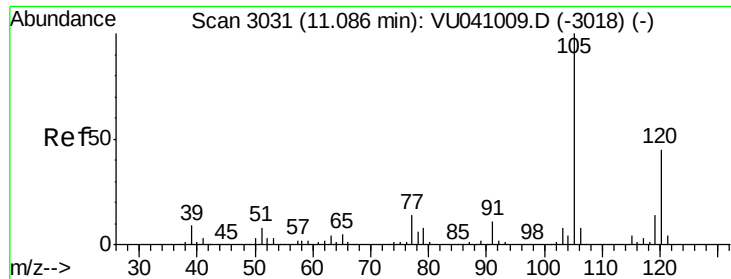


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): V

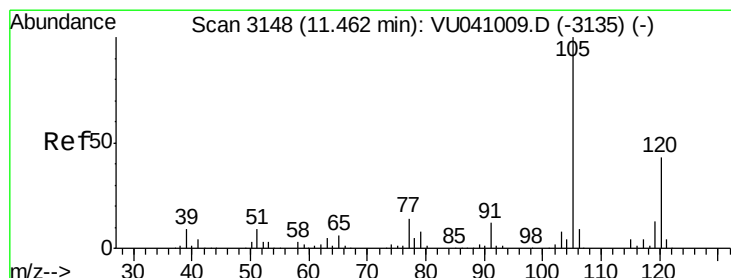
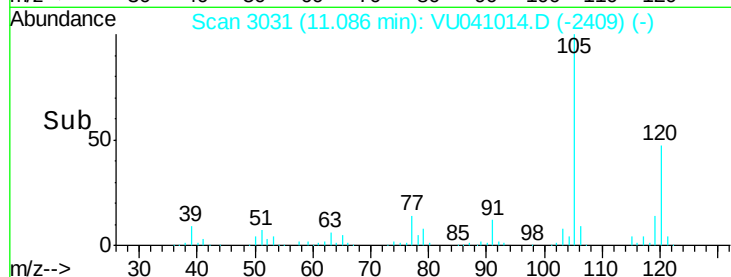
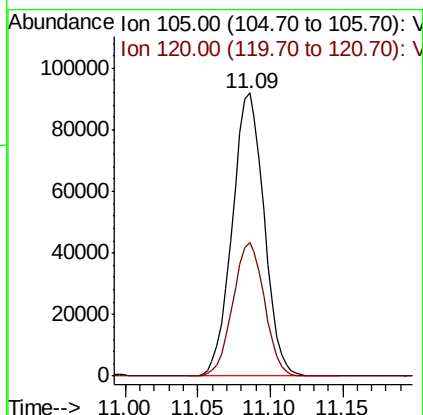
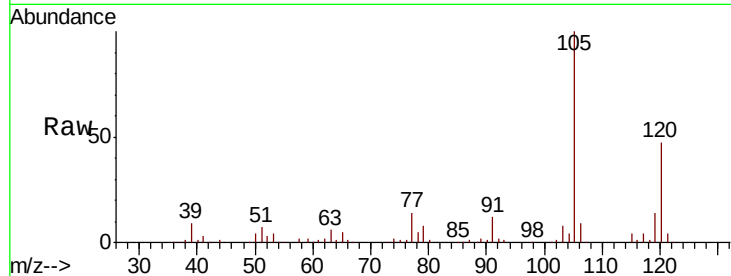




#62
 1,3,5-Trimethylbenzene
 Concen: 4.931 ug/L
 RT: 11.09 min Scan# 3031
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

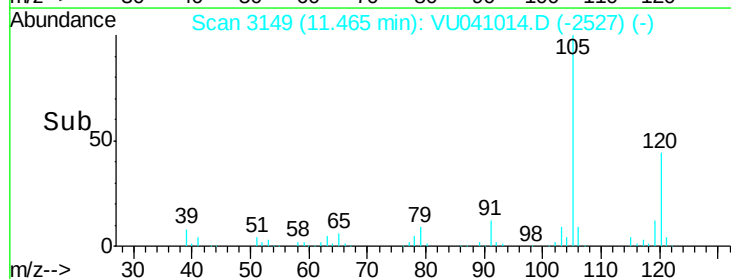
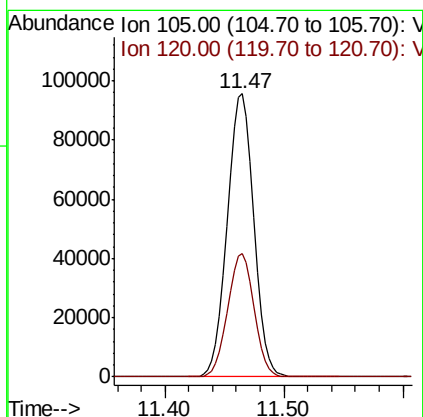
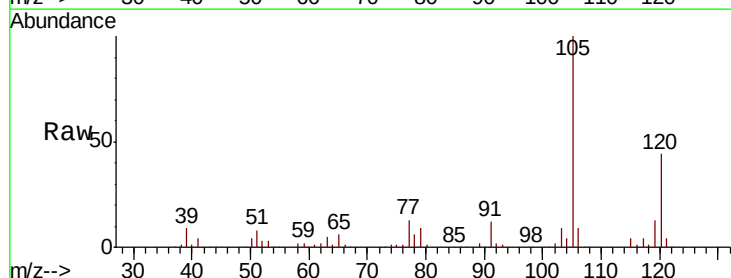
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

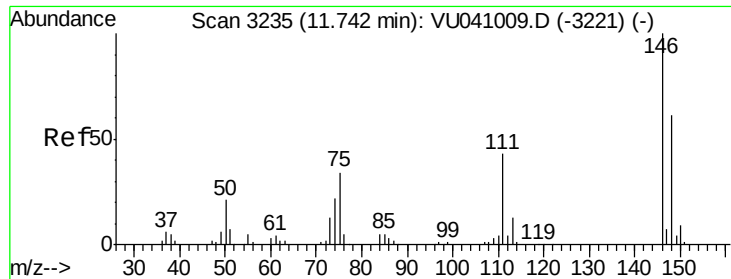
Tot Ion:105 Resp: 139749
 Ion Ratio Lower Upper
 105 100
 120 46.7 38.0 57.0



#63
 1,2,4-Trimethylbenzene
 Concen: 5.146 ug/L
 RT: 11.47 min Scan# 3149
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion:105 Resp: 147769
 Ion Ratio Lower Upper
 105 100
 120 43.1 34.6 52.0

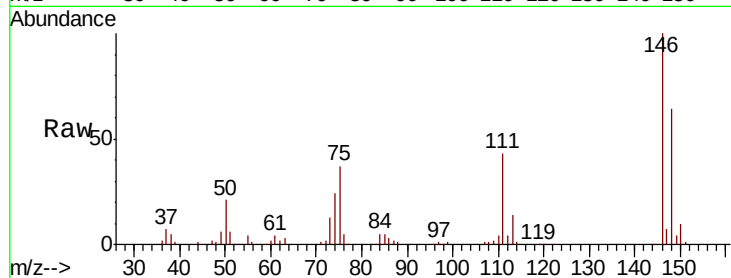




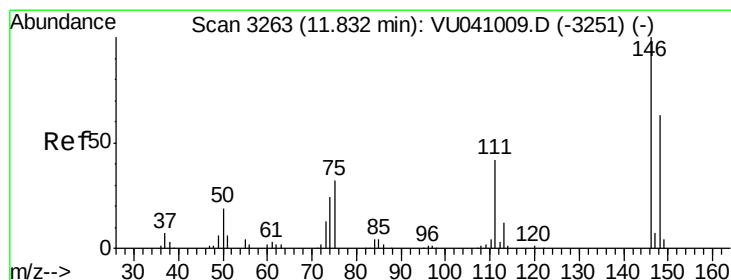
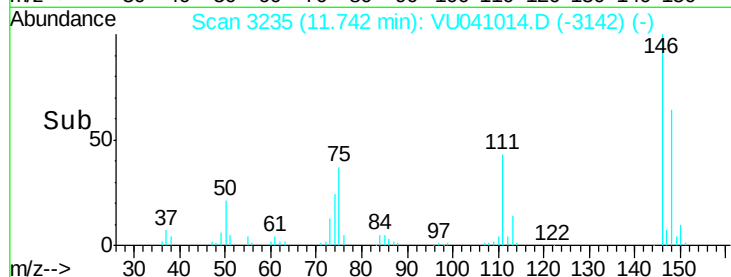
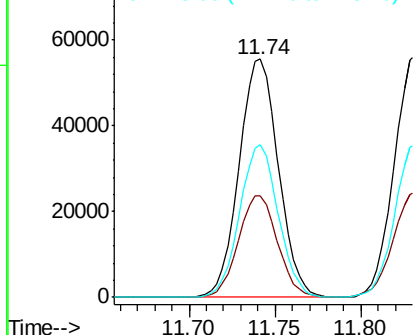
#64
 1,3-Dichlorobenzene
 Concen: 5.018 ug/L
 RT: 11.74 min Scan# 3235
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion:146 Resp: 88388
 Ion Ratio Lower Upper
 146 100
 111 42.9 30.2 56.0
 148 63.9 42.9 79.7

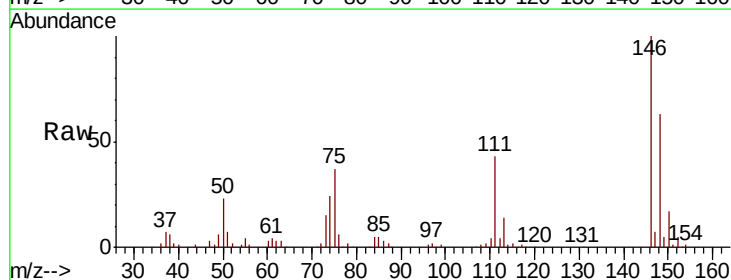


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

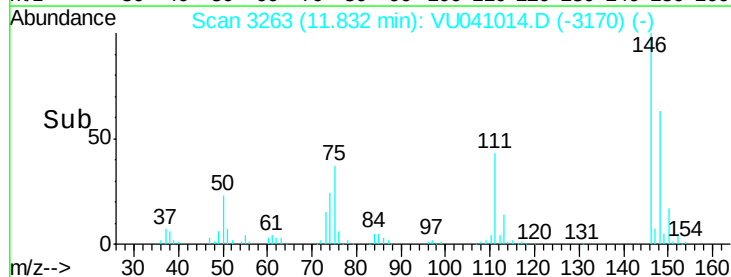
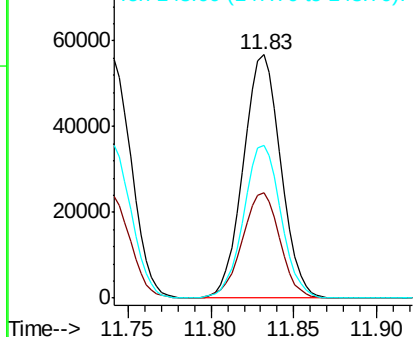


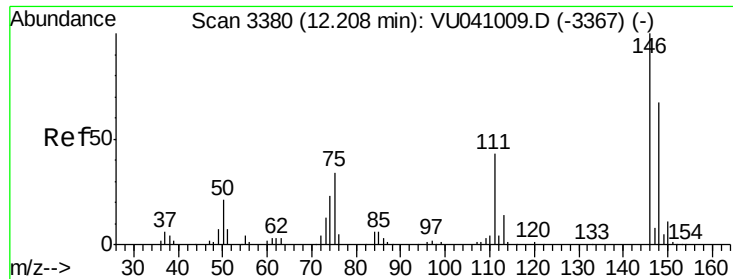
#65
 1,4-Dichlorobenzene
 Concen: 4.977 ug/L
 RT: 11.83 min Scan# 3263
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion:146 Resp: 89575
 Ion Ratio Lower Upper
 146 100
 111 43.2 28.3 52.7
 148 62.9 44.1 81.9



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

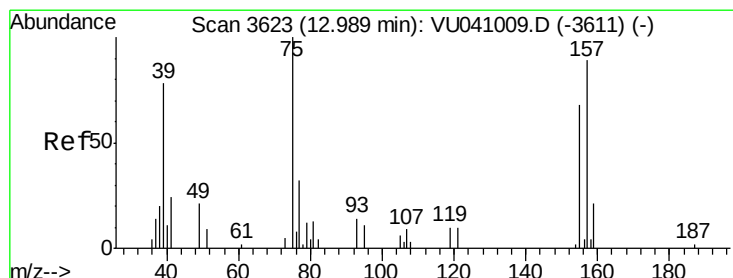
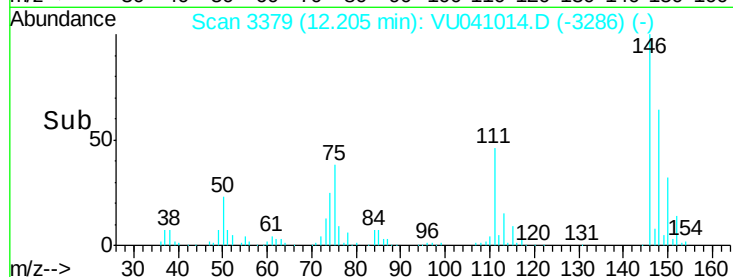
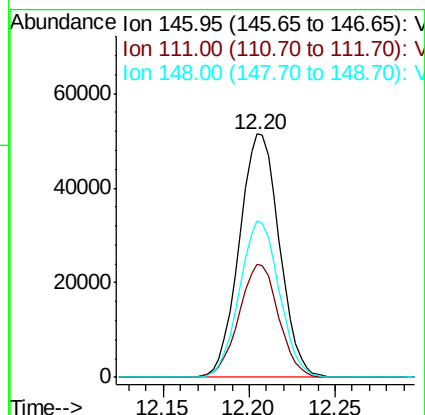
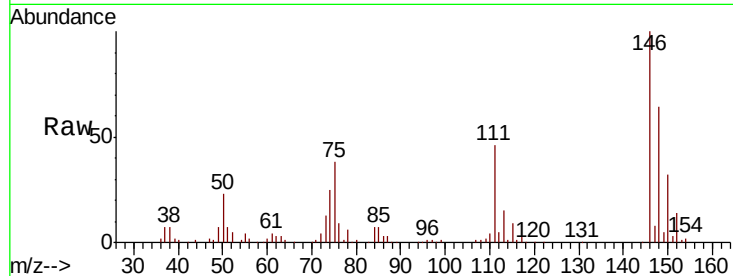




#67
 1,2-Dichlorobenzene
 Concen: 4.878 ug/L
 RT: 12.20 min Scan# 3379
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

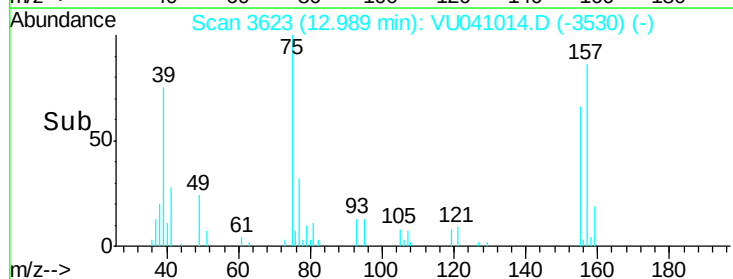
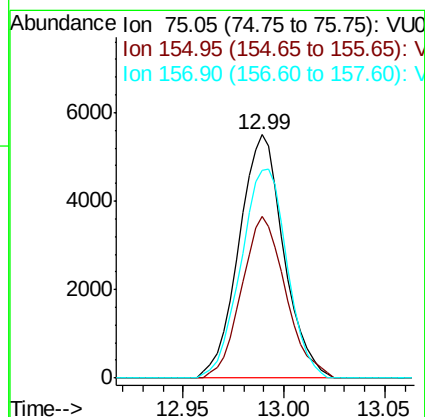
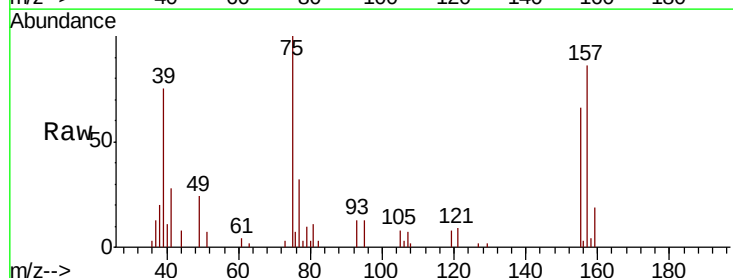
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

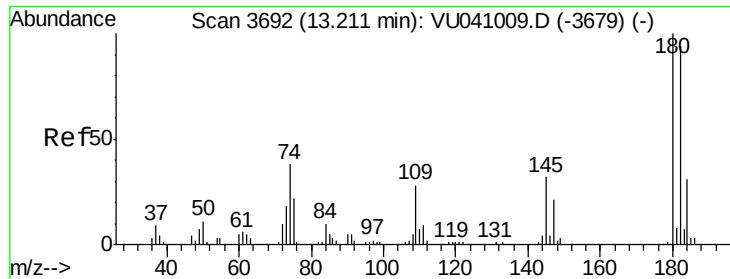
Tot Ion:146 Resp: 83333
 Ion Ratio Lower Upper
 146 100
 111 46.2 34.7 52.1
 148 64.3 50.7 76.1



#68
 1,2-Dibromo-3-chloropropane
 Concen: 5.062 ug/L
 RT: 12.99 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion: 75 Resp: 8563
 Ion Ratio Lower Upper
 75 100
 155 66.3 60.2 90.2
 157 85.6 74.4 111.6

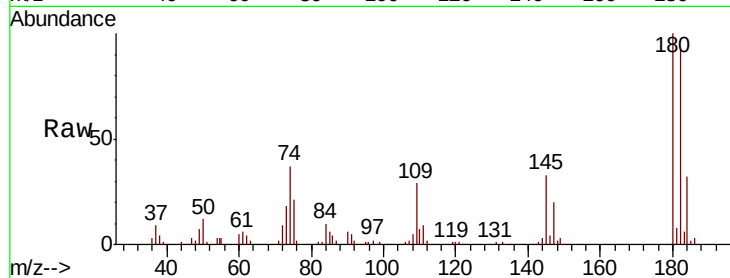




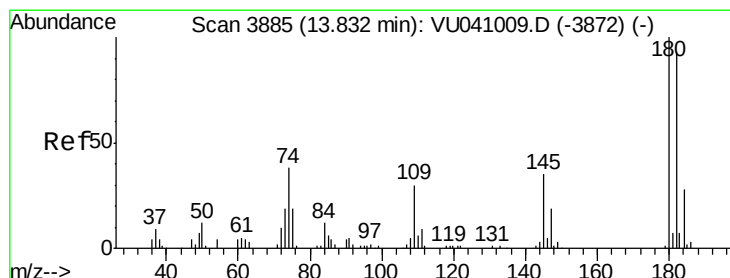
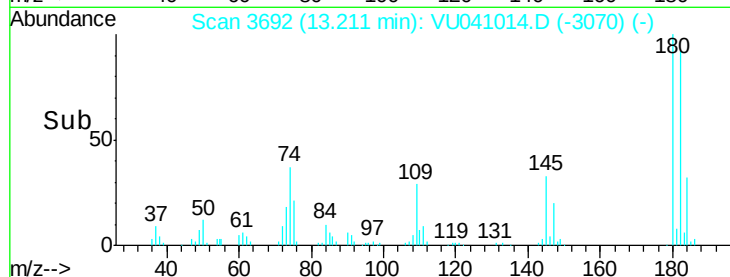
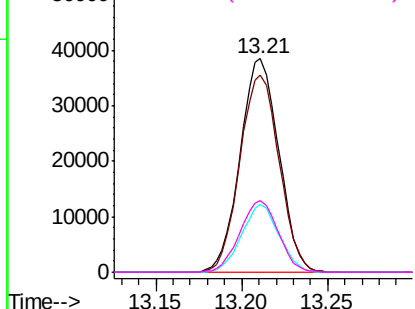
#69
 1,3,5-Trichlorobenzene
 Concen: 4.976 ug/L
 RT: 13.21 min Scan# 3692
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tot Ion:180 Resp: 60164
 Ion Ratio Lower Upper
 180 100
 182 93.5 76.9 115.3
 184 30.6 23.8 35.8
 145 33.1 25.2 37.8

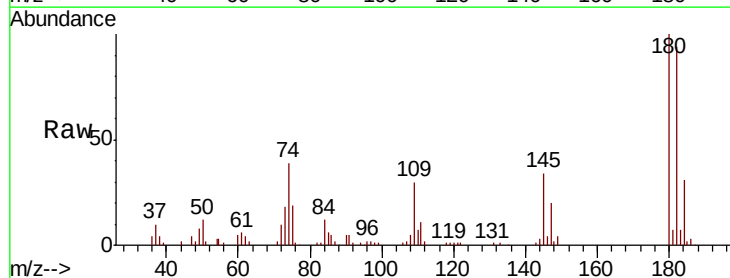


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

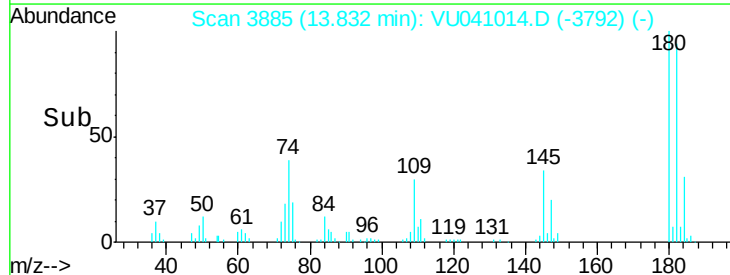
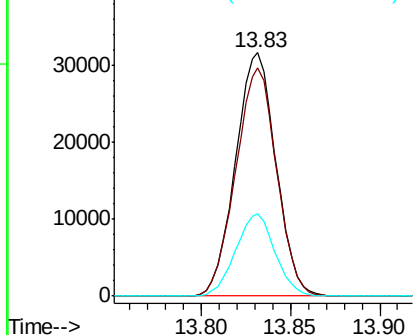


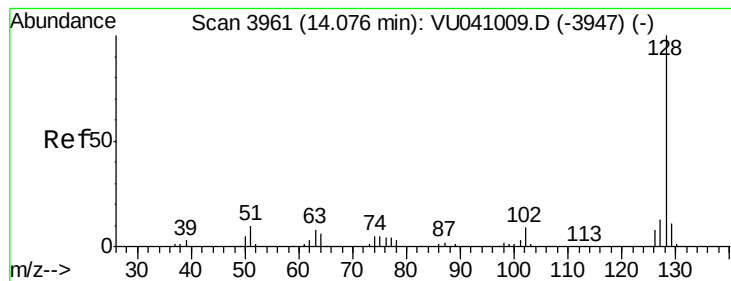
#70
 1,2,4-trichlorobenzene
 Concen: 4.921 ug/L
 RT: 13.83 min Scan# 3885
 Delta R.T. 0.00 min
 Lab File: VU041014.D
 Acq: 29 Oct 2020 13:22

Tgt Ion:180 Resp: 50114
 Ion Ratio Lower Upper
 180 100
 182 94.7 74.5 111.7
 145 32.7 26.6 39.8



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: 4.809 ug/L

RT: 14.08 min Scan# 3961

Delta R.T. 0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

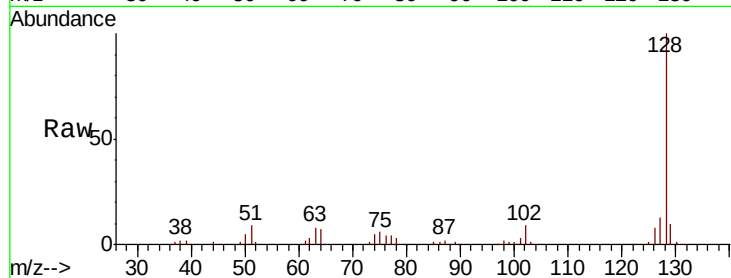
Tot Ion:128 Resp: 85737

Ion Ratio Lower Upper

128 100

129 10.4 8.8 13.2

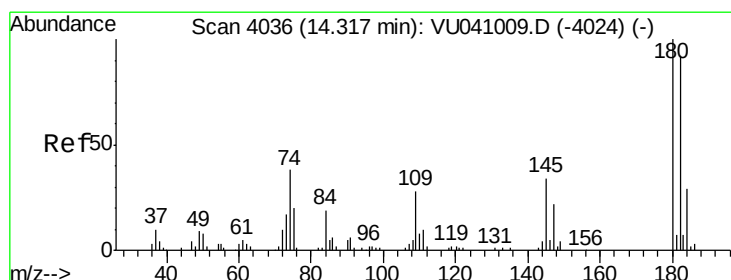
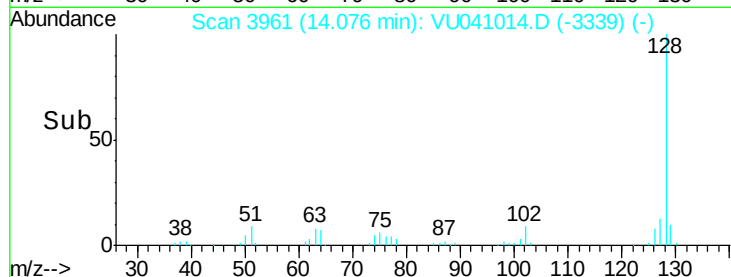
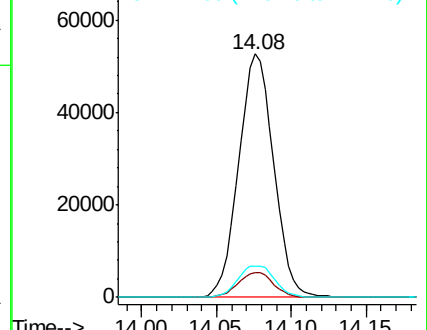
127 13.6 11.2 16.8



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: 5.077 ug/L

RT: 14.32 min Scan# 4037

Delta R.T. 0.00 min

Lab File: VU041014.D

Acq: 29 Oct 2020 13:22

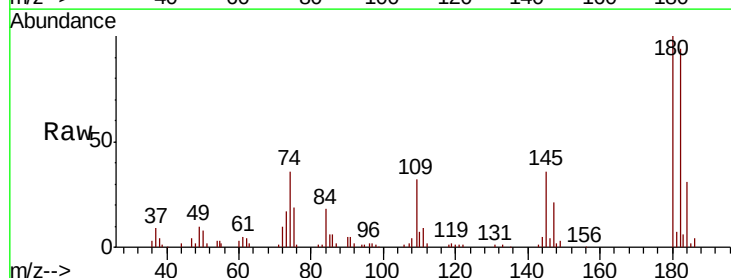
Tgt Ion:180 Resp: 48433

Ion Ratio Lower Upper

180 100

182 94.5 76.7 115.1

145 34.1 27.4 41.0



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

