

Data File : VU036391.D
Acq On : 02 Jan 2020 14:50
Operator : JC/MD
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Quant Time: Jan 03 00:47:41 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR122819WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jan 03 00:45:06 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	300156	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	292534	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	138237	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	87667	4.02	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.40%
7) Chloroethane-d5	1.93	69	87513	4.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.60%
11) 1,1-Dichloroethene-d2	2.59	63	175183	4.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.80%
20) 2-Butanone-d5	4.69	46	239428	43.04	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.08%
24) Chloroform-d	5.11	84	200899	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.75	65	109917	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.20%
32) Benzene-d6	5.77	84	377278	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
36) 1,2-Dichloropropane-d6	6.73	67	121910	4.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.00%
41) Toluene-d8	7.93	98	357498	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
43) trans-1,3-Dichloropropene-	8.21	79	53021	4.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.80%
46) 2-Hexanone-d5	8.67	63	262772	48.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.84%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	109602	4.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.40%
64) 1,2-Dichlorobenzene-d4	12.21	152	128427	4.36	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	103398	4.312 ug/L	98
3) Chloromethane	1.54	50	102159	4.407 ug/L	100
5) Vinyl chloride	1.62	62	110390	4.395 ug/L	97
6) Bromomethane	1.87	94	62731	4.334 ug/L	99
8) Chloroethane	1.95	64	63919	4.301 ug/L	99
9) Trichlorofluoromethane	2.16	101	156836	4.402 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	84207	4.545 ug/L	99
12) 1,1-Dichloroethene	2.60	96	82796	4.532 ug/L	87
13) Acetone	2.67	43	128818	35.948 ug/L	92
14) Carbon disulfide	2.82	76	260243	4.343 ug/L	99
15) Methyl Acetate	2.99	43	33073	4.182 ug/L	99
16) Methylene chloride	3.08	84	94733	4.084 ug/L	99
17) Methyl tert-butyl Ether	3.41	73	236396	4.473 ug/L	97
18) trans-1,2-Dichloroethene	3.39	96	91182	4.458 ug/L	96
19) 1,1-Dichloroethane	3.92	63	172476	4.656 ug/L	98
21) 2-Butanone	4.77	43	284830	49.121 ug/L	93
22) cis-1,2-Dichloroethene	4.71	96	102010	4.443 ug/L #	100

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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	43647	4.563	ug/L	89
25) Chloroform	5.13	83	179044	4.552	ug/L	98
27) 1,2-Dichloroethane	5.84	62	121043	4.674	ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	158514	4.356	ug/L	98
30) Cyclohexane	5.43	56	164706	4.550	ug/L	96
31) Carbon tetrachloride	5.57	117	136014	4.396	ug/L	100
33) Benzene	5.81	78	386923	4.464	ug/L	100
34) Trichloroethene	6.58	95	104901	4.493	ug/L	96
35) Methylcyclohexane	6.80	83	175743	4.750	ug/L	98
37) 1,2-Dichloropropane	6.83	63	99446	4.447	ug/L	99
38) Bromodichloromethane	7.14	83	134303	4.352	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	164157	4.478	ug/L	97
40) 4-Methyl-2-pentanone	7.83	43	700965	44.504	ug/L	99
42) Toluene	8.00	91	427423	4.457	ug/L	100
44) trans-1,3-Dichloropropene	8.24	75	133103	4.419	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	71583	4.402	ug/L	98
47) Tetrachloroethene	8.58	164	71569	4.356	ug/L	98
48) 2-Hexanone	8.72	43	511591	45.888	ug/L	97
49) Dibromochloromethane	8.84	129	91198	4.238	ug/L	98
50) 1,2-Dibromoethane	8.95	107	72493	4.398	ug/L	93
51) Chlorobenzene	9.47	112	265036	4.432	ug/L	97
52) Ethylbenzene	9.60	91	492168	4.630	ug/L	99
53) m,p-Xylene	9.72	106	184451	4.516	ug/L	100
54) o-Xylene	10.12	106	181118	4.565	ug/L	100
55) Styrene	10.14	104	296504	4.397	ug/L	98
56) Isopropylbenzene	10.51	105	479169	4.549	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.81	83	95243	4.344	ug/L	97
59) 1,2,3-Trichloropropane	10.85	75	69550	4.509	ug/L	95
61) Bromoform	10.32	173	49930	4.050	ug/L	94
62) 1,3-Dichlorobenzene	11.77	146	204825	4.432	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	202127	4.423	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	191249	4.394	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	16224	4.055	ug/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	143086	4.357	ug/L	100
68) 1,2,4-trichlorobenzene	13.86	180	97322	4.036	ug/L	99
69) Naphthalene	14.11	128	134695	3.208	ug/L	98
70) 1,2,3-Trichlorobenzene	14.35	180	88152	3.792	ug/L	97

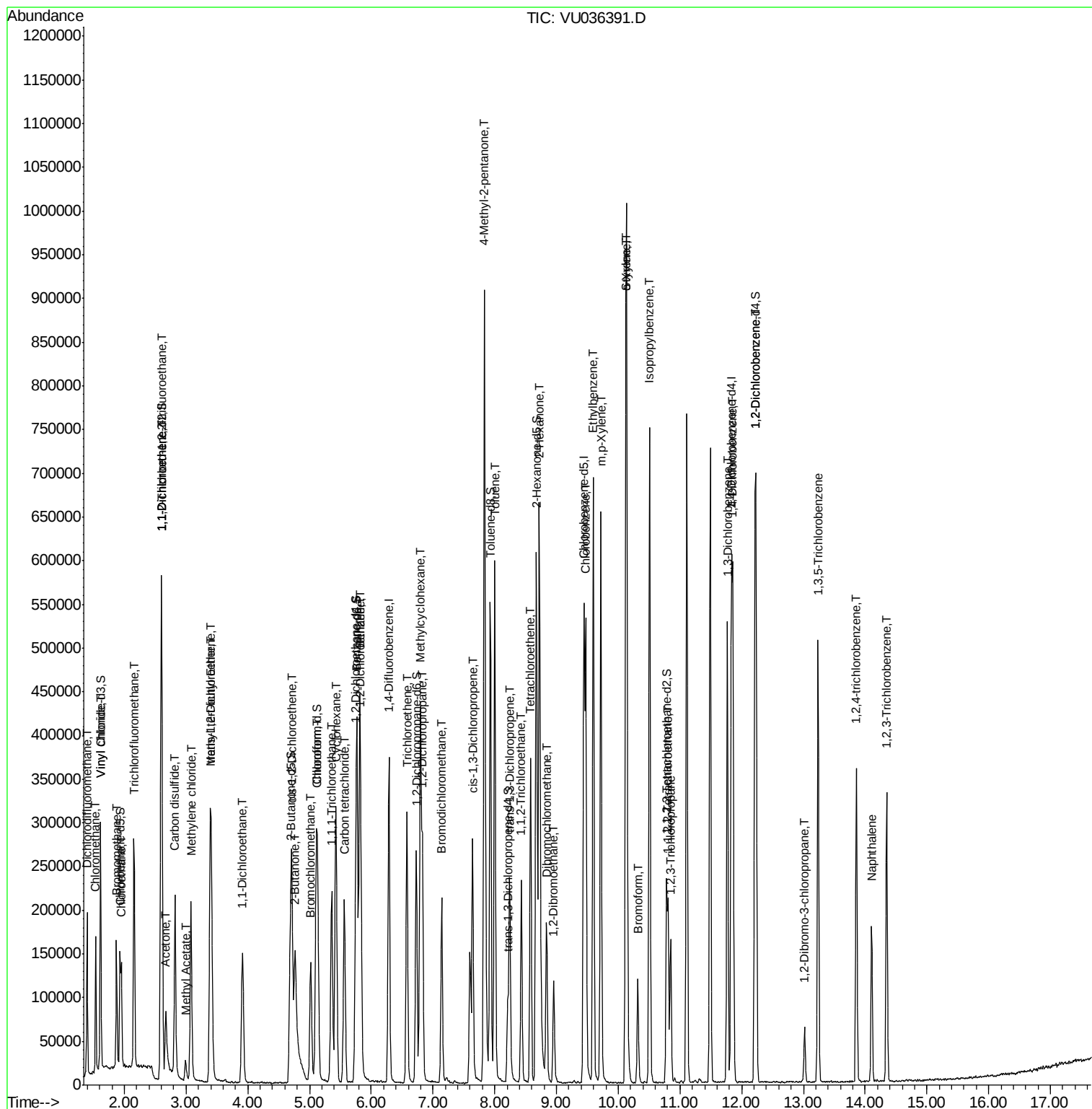
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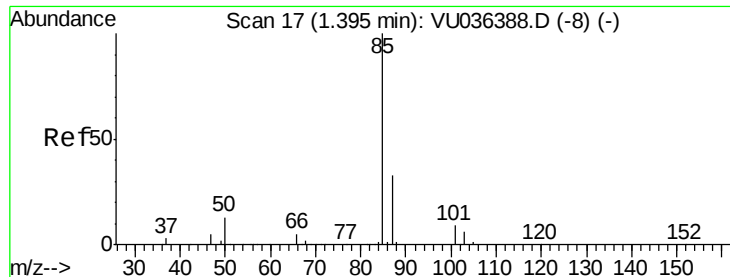
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#2

Dichlorodifluoromethane

Concen: 4.312 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

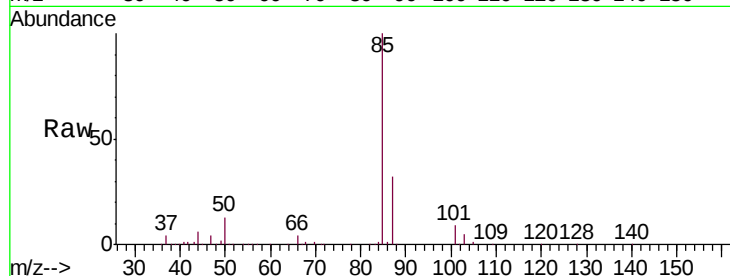
VSTD00512

Tgt Ion: 85 Resp: 103398

Ion Ratio Lower Upper

85 100

87 31.3 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU036388.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU036391.D (-1) (-)

120000

100000

80000

60000

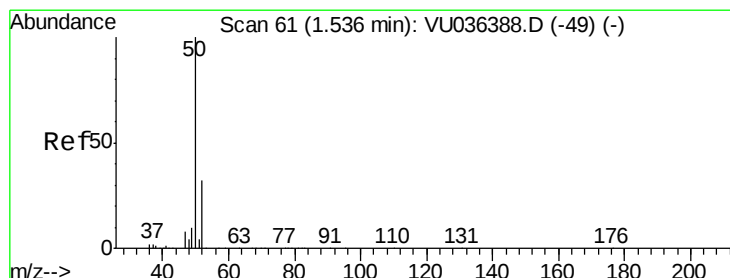
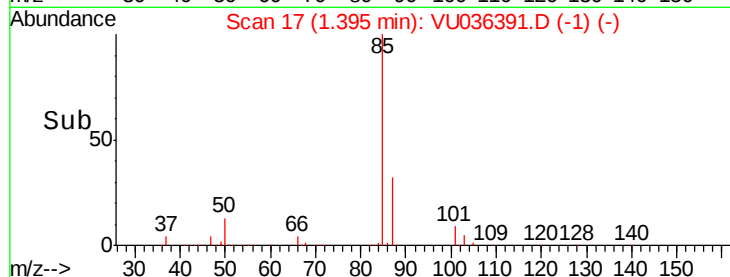
40000

20000

0

1.35 1.40 1.45

Time-->



#3

Chloromethane

Concen: 4.407 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036391.D

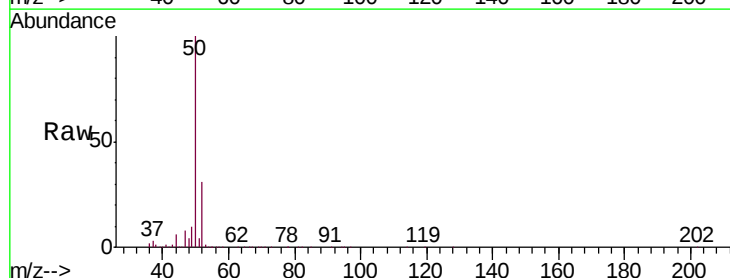
Acq: 02 Jan 2020 14:50

Tgt Ion: 50 Resp: 102159

Ion Ratio Lower Upper

50 100

52 31.4 22.0 40.8



Abundance Ion 50.05 (49.75 to 50.75): VU036388.D (-49) (-)

Ion 52.05 (51.75 to 52.75): VU036391.D (-1) (-)

100000

80000

60000

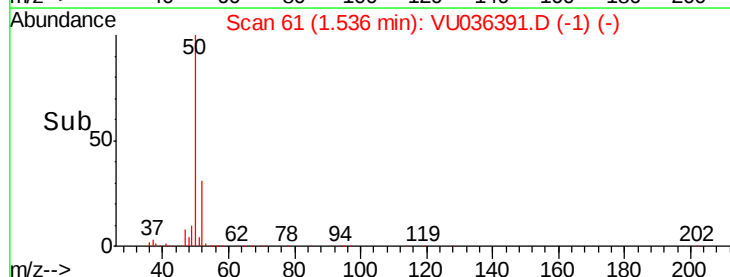
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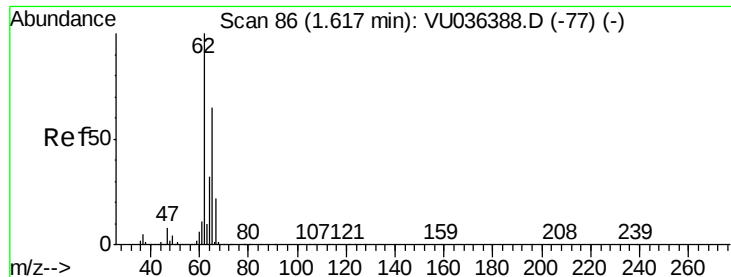
20000

0

1.50 1.55 1.60

Time-->





#5

Vinyl chloride

Concen: 4.395 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

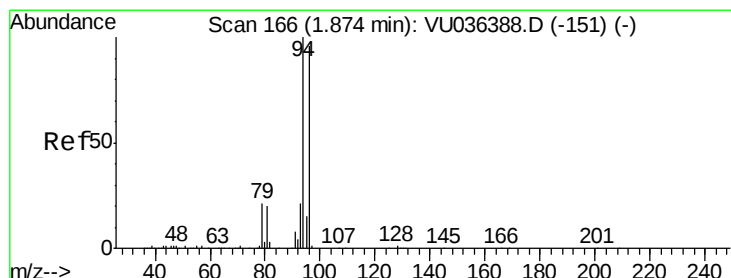
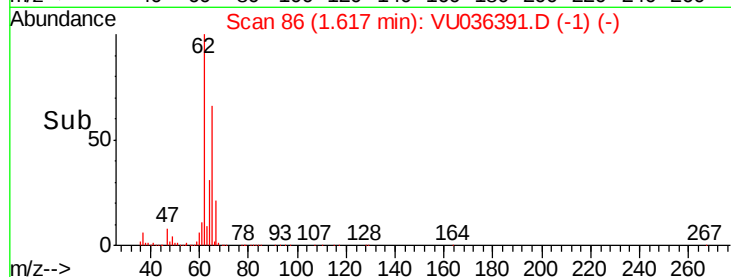
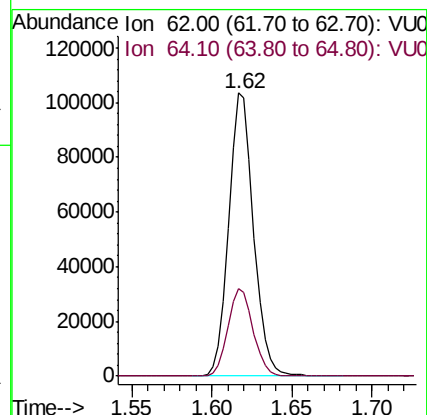
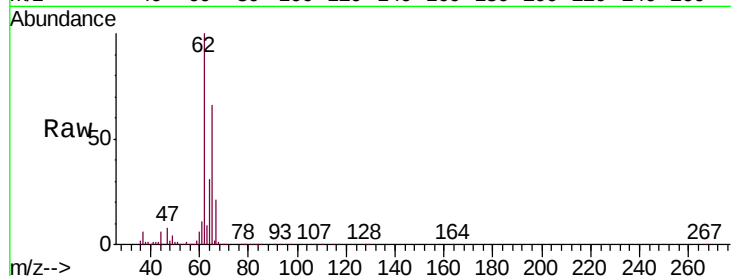
VSTD00512

Tgt Ion: 62 Resp: 110390

Ion Ratio Lower Upper

62 100

64 30.8 22.9 42.5



#6

Bromomethane

Concen: 4.334 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036391.D

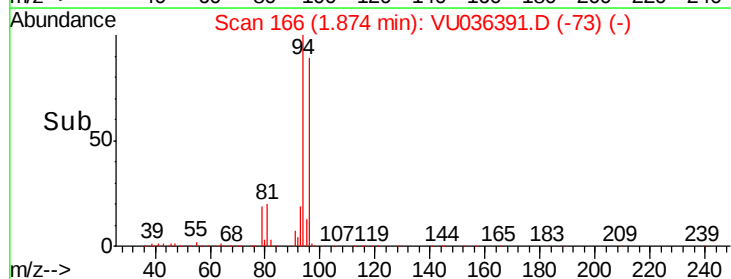
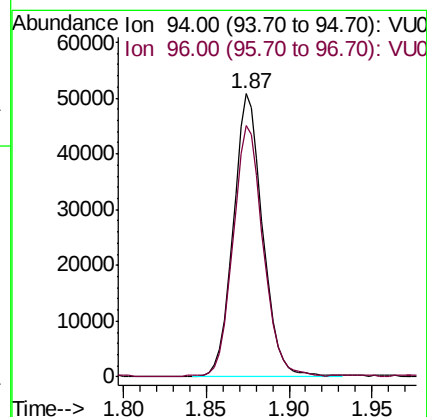
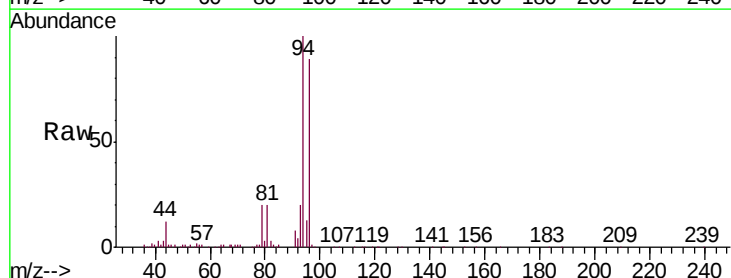
Acq: 02 Jan 2020 14:50

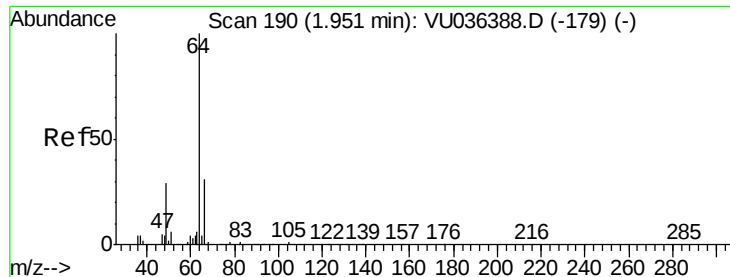
Tgt Ion: 94 Resp: 62731

Ion Ratio Lower Upper

94 100

96 88.9 62.9 116.7





#8

Chloroethane

Concen: 4.301 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

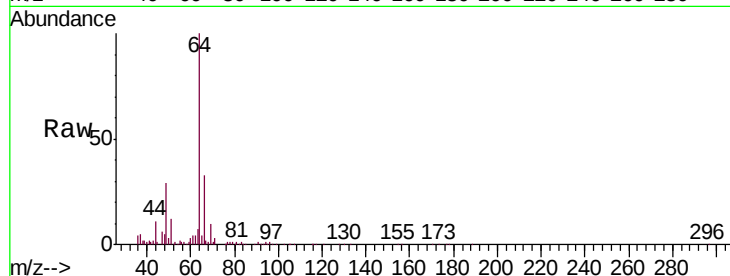
VSTD00512

Tgt Ion: 64 Resp: 63919

Ion Ratio Lower Upper

64 100

66 33.2 23.0 42.6

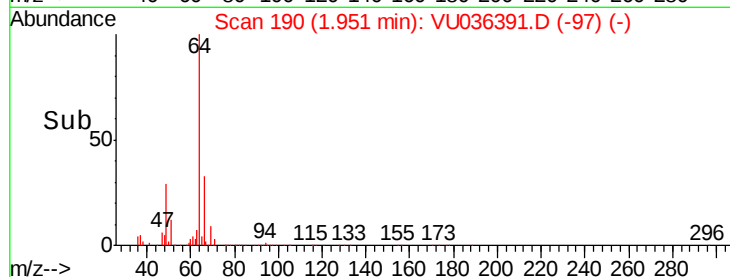


Abundance Ion 64.10 (63.80 to 64.80): VU036388.D (-179) (-)

Ion 66.05 (65.75 to 66.75): VU036388.D (-179) (-)

1.95

Time-->

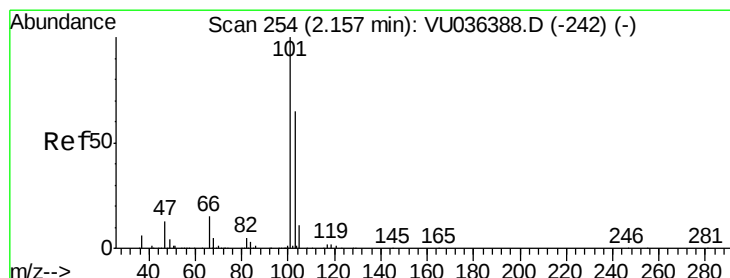


Abundance Ion 64.10 (63.80 to 64.80): VU036391.D (-97) (-)

Ion 66.05 (65.75 to 66.75): VU036391.D (-97) (-)

1.95

Time-->



#9

Trichlorofluoromethane

Concen: 4.402 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU036391.D

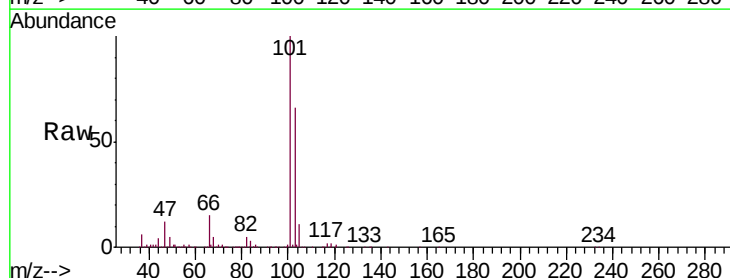
Acq: 02 Jan 2020 14:50

Tgt Ion: 101 Resp: 156836

Ion Ratio Lower Upper

101 100

103 64.4 52.8 79.2

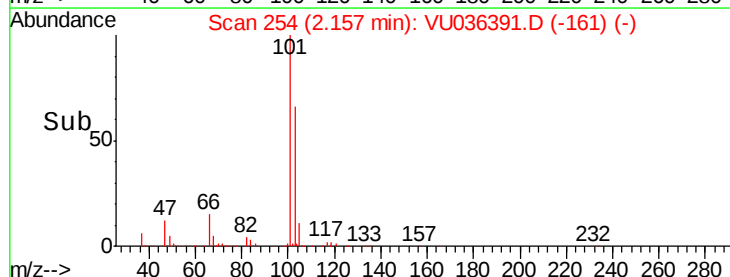


Abundance Ion 101.00 (100.70 to 101.70): VU036388.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU036388.D (-242) (-)

2.16

Time-->

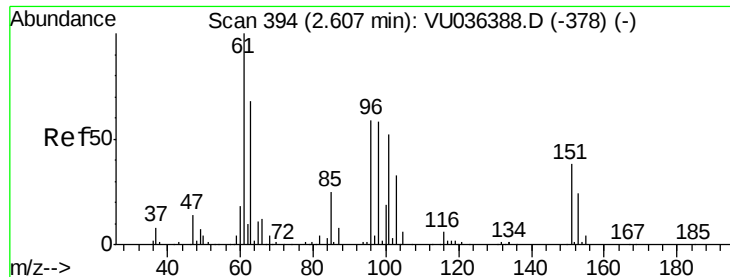


Abundance Ion 101.00 (100.70 to 101.70): VU036391.D (-161) (-)

Ion 103.00 (102.70 to 103.70): VU036391.D (-161) (-)

2.16

Time-->



#10

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

Concen: 4.545 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036391.D

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ClientSampleId :

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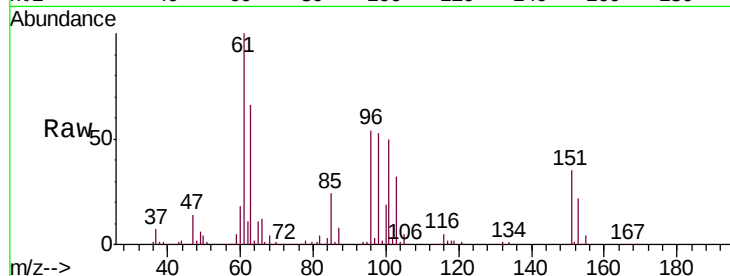
Tgt Ion: 101 Resp: 84207

Ion Ratio Lower Upper

101 100

85 47.5 39.1 58.7

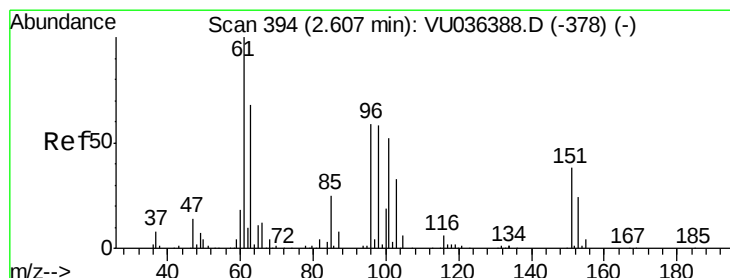
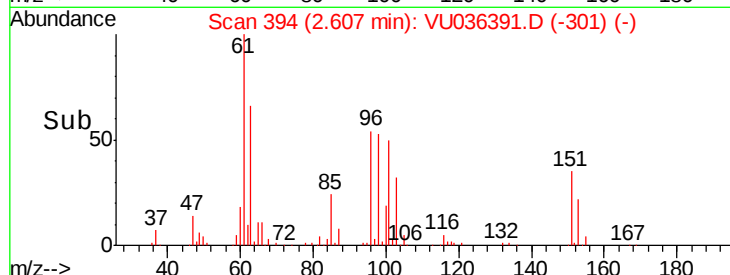
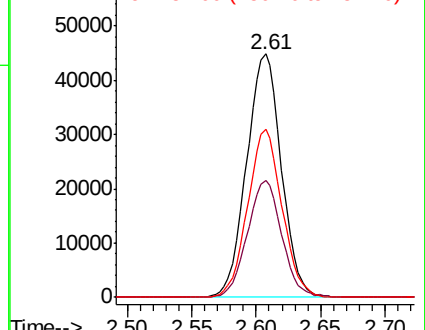
151 68.2 54.9 82.3



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: 4.532 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

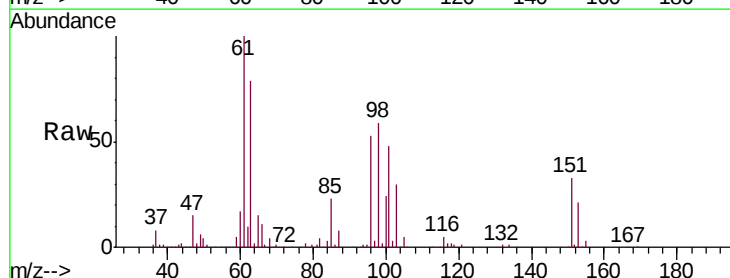
Tgt Ion: 96 Resp: 82796

Ion Ratio Lower Upper

96 100

61 188.3 123.8 230.0

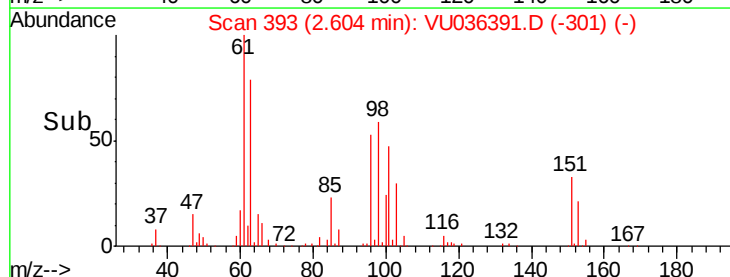
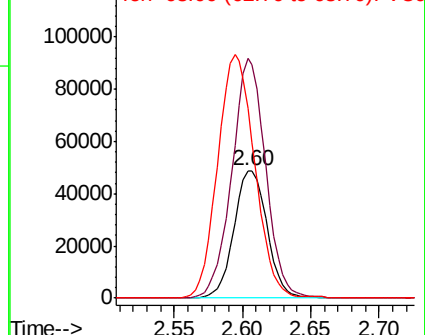
63 149.0 89.0 165.4

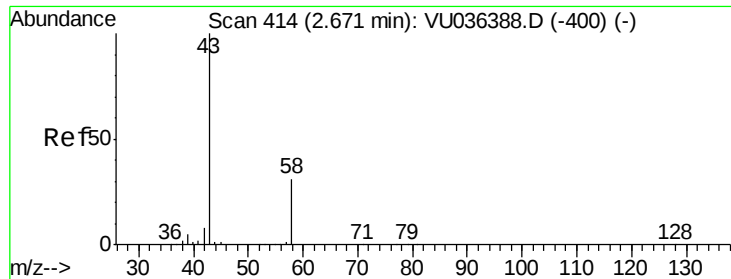


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 35.948 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU036391.D

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MSVOA_U

ClientSampleId :

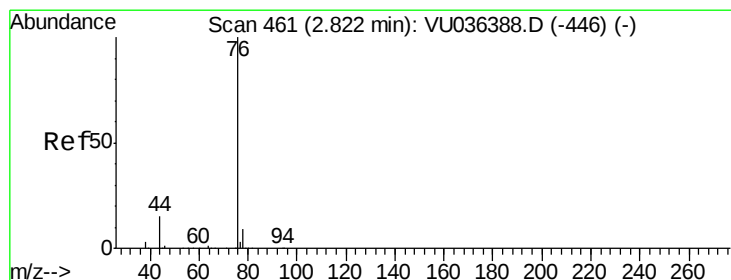
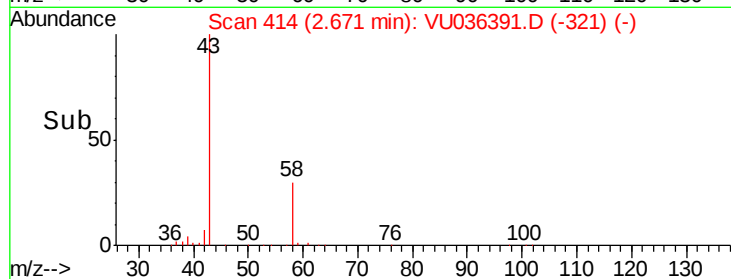
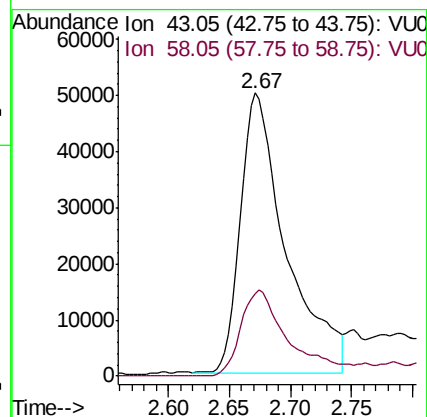
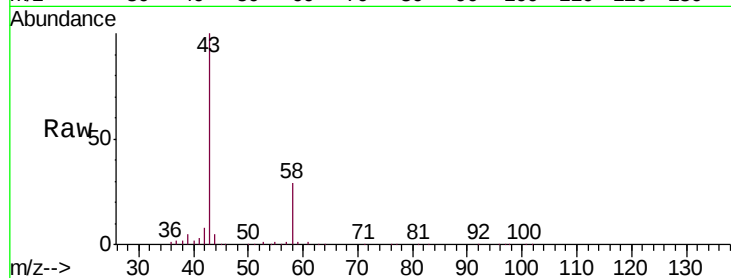
VSTD00512

Tgt Ion: 43 Resp: 128818

Ion Ratio Lower Upper

43 100

58 32.8 0.0 57.0



#14

Carbon disulfide

Concen: 4.343 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036391.D

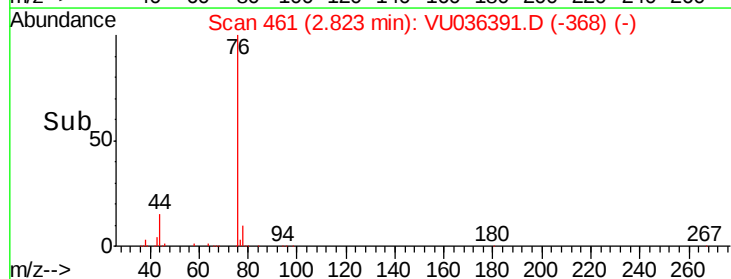
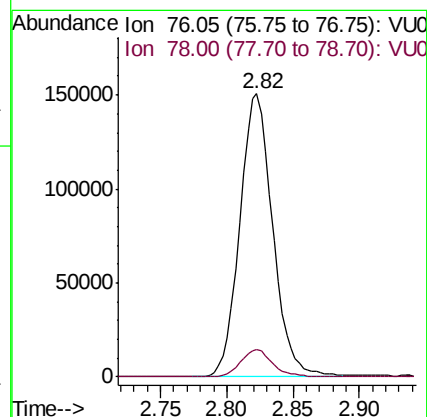
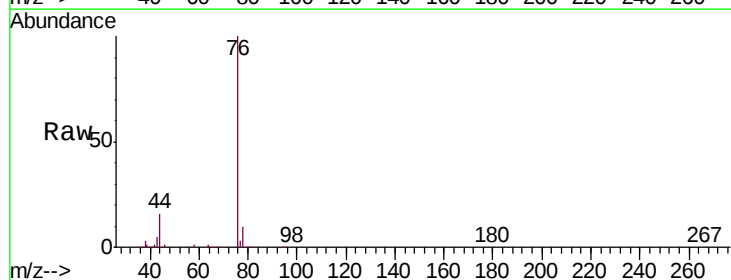
Acq: 02 Jan 2020 14:50

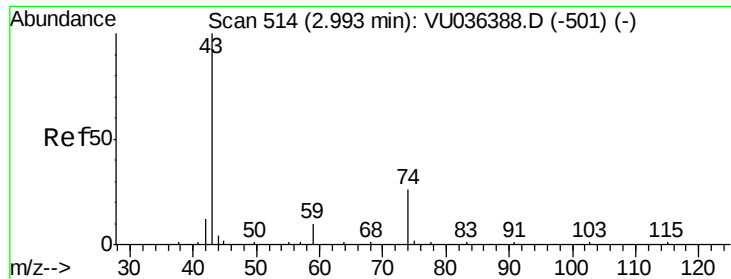
Tgt Ion: 76 Resp: 260243

Ion Ratio Lower Upper

76 100

78 9.7 7.6 11.4

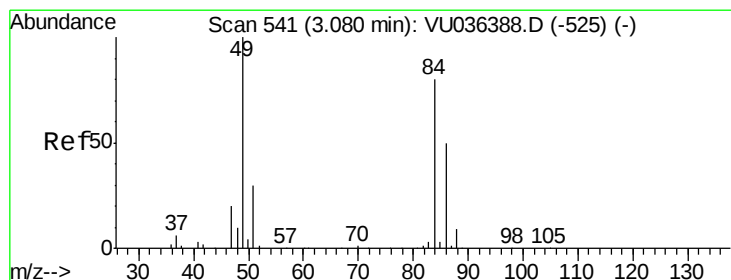
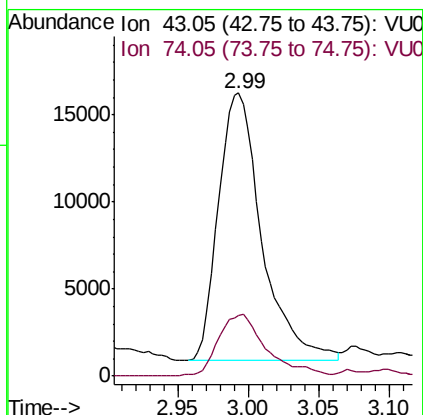
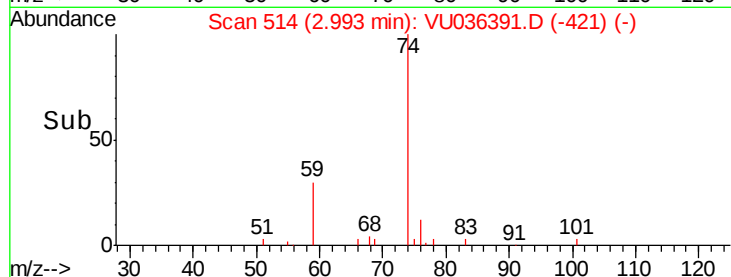
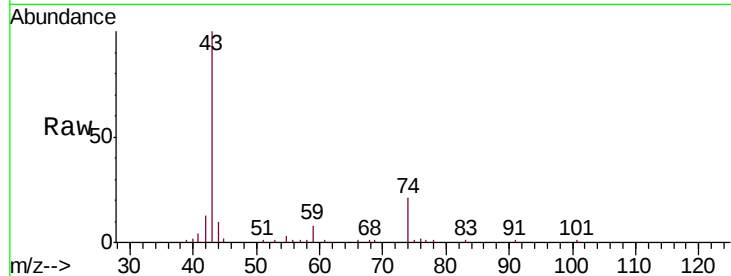




#15
Methyl Acetate
Concen: 4.182 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU036391.D
Acq: 02 Jan 2020 14:50

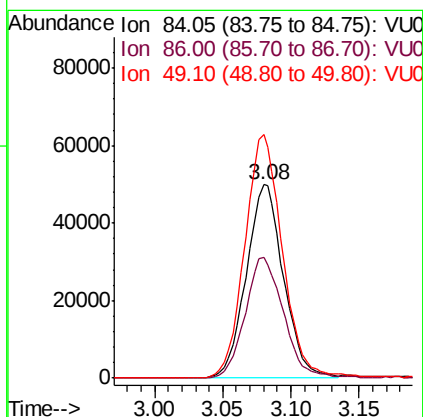
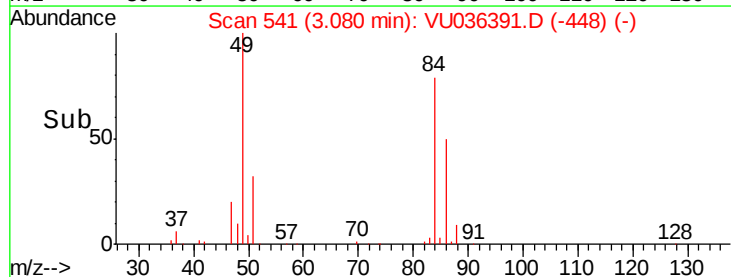
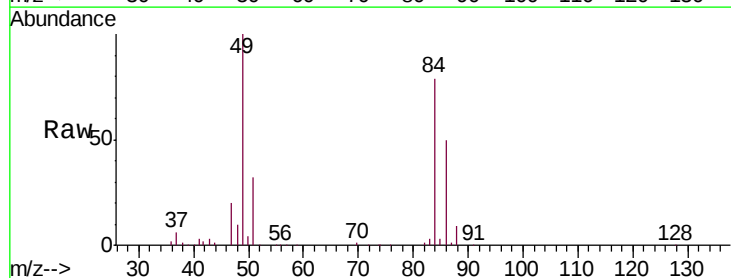
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

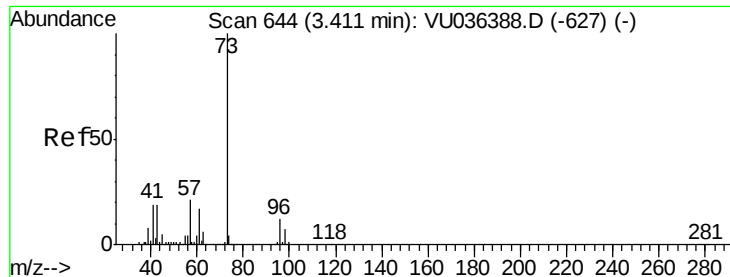
Tgt Ion: 43 Resp: 33073
Ion Ratio Lower Upper
43 100
74 25.6 20.1 30.1



#16
Methylene chloride
Concen: 4.084 ug/L
RT: 3.08 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU036391.D
Acq: 02 Jan 2020 14:50

Tgt Ion: 84 Resp: 94733
Ion Ratio Lower Upper
84 100
86 62.6 44.4 82.5
49 125.8 89.0 165.2





#17

Methyl tert-butyl Ether

Concen: 4.473 ug/L

RT: 3.41 min Scan# 644

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

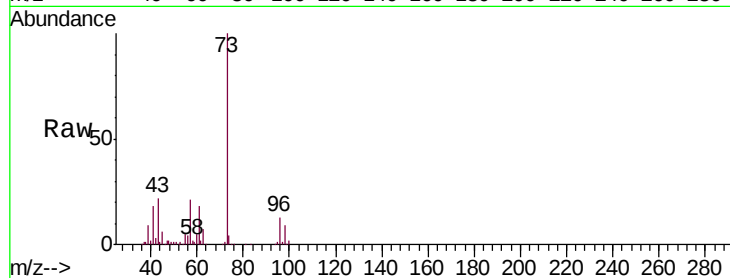
Tgt Ion: 73 Resp: 236396

Ion Ratio Lower Upper

73 100

43 21.5 16.3 24.5

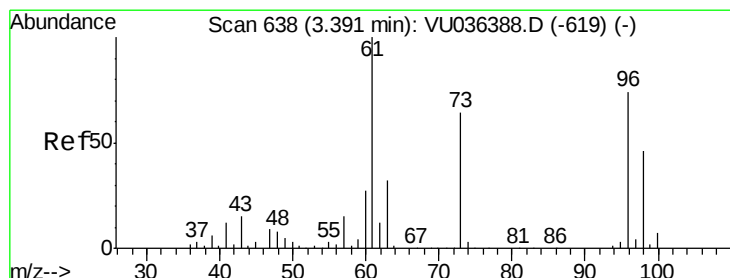
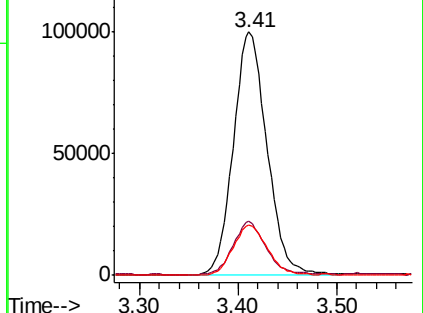
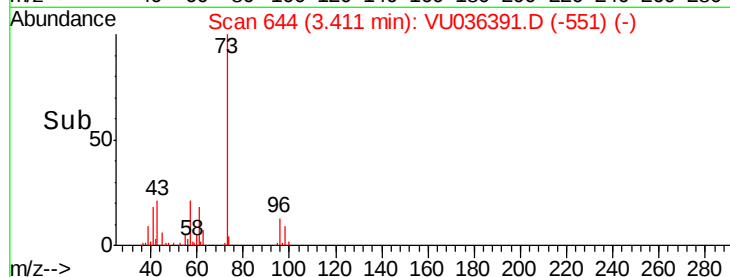
57 20.8 17.9 26.9



Abundance Ion 73.10 (72.80 to 73.80): VU036391.D (-551) (-)

Ion 43.05 (42.75 to 43.75): VU036391.D (-551) (-)

Ion 57.10 (56.80 to 57.80): VU036391.D (-551) (-)



#18

trans-1,2-Dichloroethene

Concen: 4.458 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

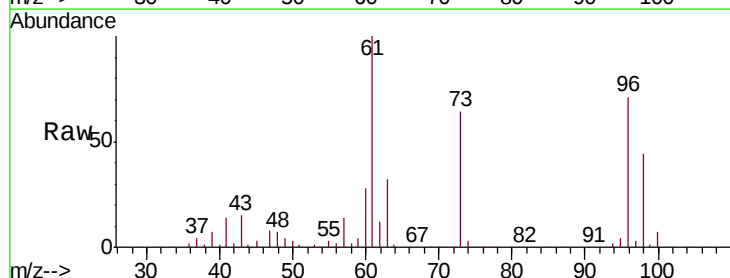
Tgt Ion: 96 Resp: 91182

Ion Ratio Lower Upper

96 100

61 141.0 94.8 176.2

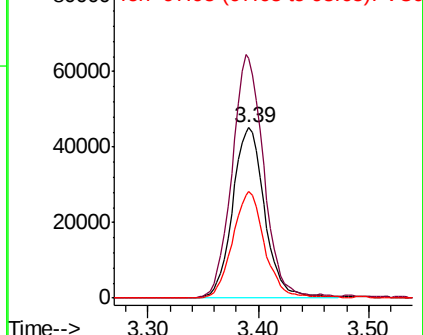
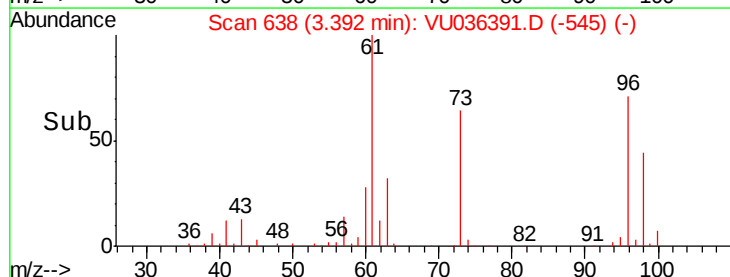
98 62.6 42.3 78.5

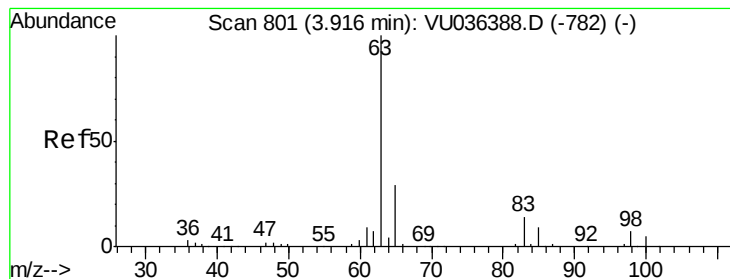


Abundance Ion 96.00 (95.70 to 96.70): VU036391.D (-545) (-)

Ion 61.05 (60.75 to 61.75): VU036391.D (-545) (-)

Ion 97.95 (97.65 to 98.65): VU036391.D (-545) (-)





#19

1,1-Dichloroethane

Concen: 4.656 ug/L

RT: 3.92 min Scan# 801

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

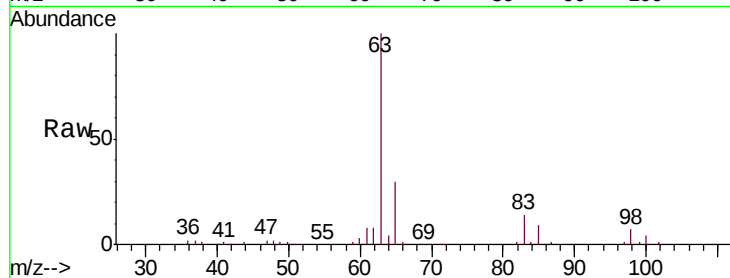
Tgt Ion: 63 Resp: 172476

Ion Ratio Lower Upper

63 100

65 30.5 21.9 40.7

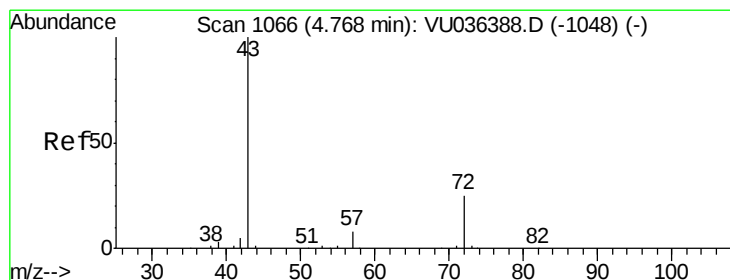
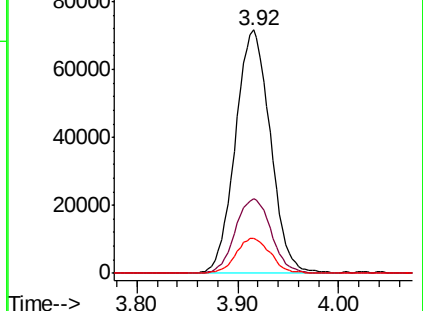
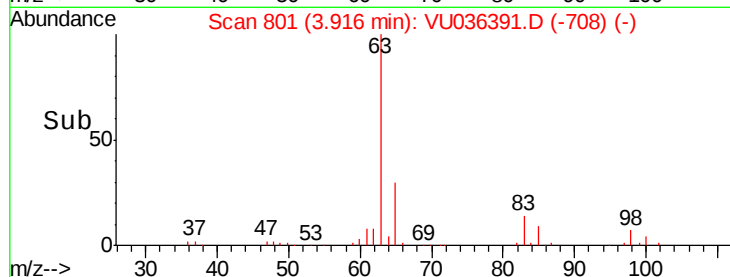
83 14.3 10.6 19.8



Abundance Ion 63.10 (62.80 to 63.80): VU036391.D (-708) (-)

Ion 65.10 (64.80 to 65.80): VU036391.D (-708) (-)

Ion 83.05 (82.75 to 83.75): VU036391.D (-708) (-)



#21

2-Butanone

Concen: 49.121 ug/L

RT: 4.77 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VU036391.D

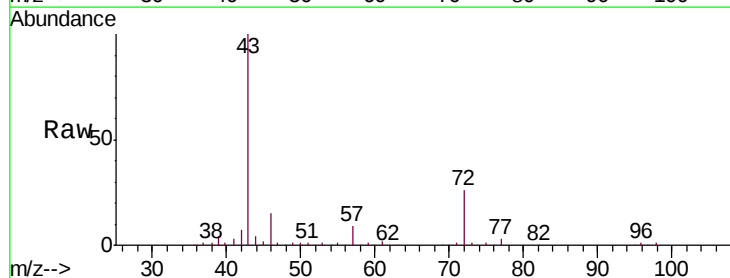
Acq: 02 Jan 2020 14:50

Tgt Ion: 43 Resp: 284830

Ion Ratio Lower Upper

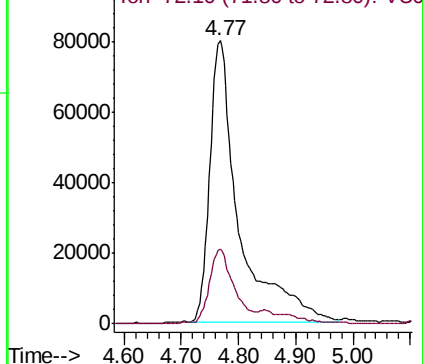
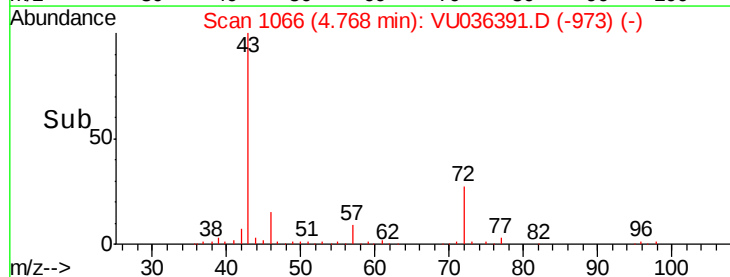
43 100

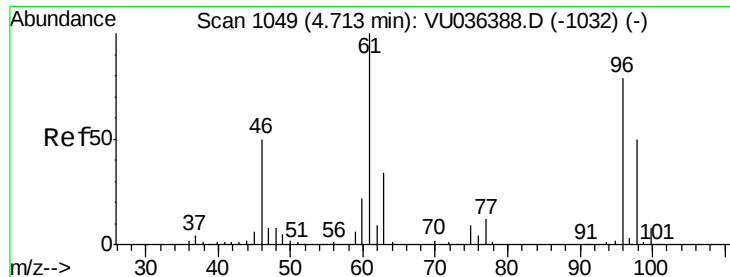
72 21.4 12.5 37.5



Abundance Ion 43.05 (42.75 to 43.75): VU036391.D (-973) (-)

Ion 72.10 (71.80 to 72.80): VU036391.D (-973) (-)

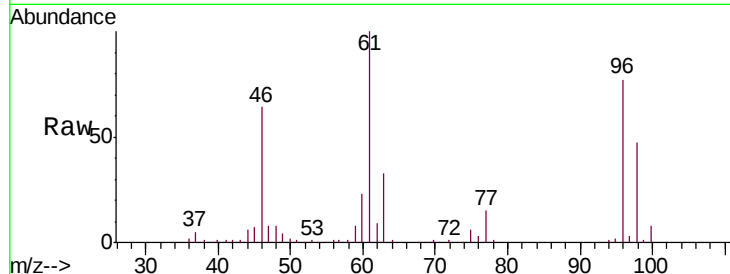




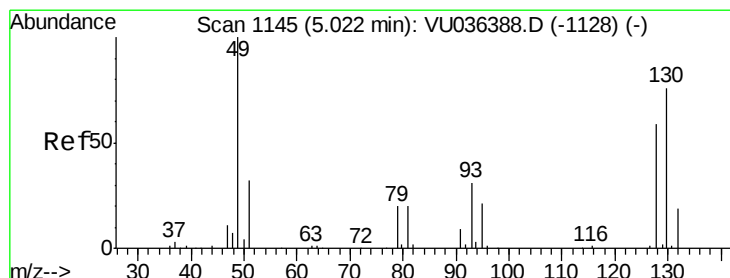
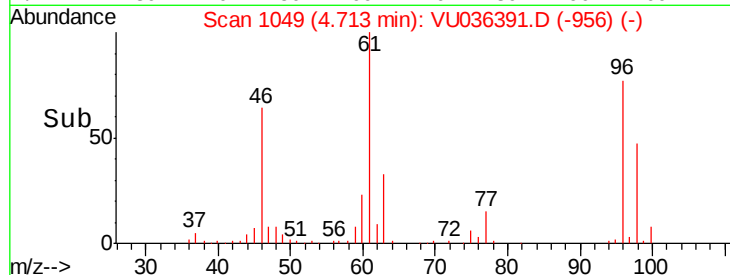
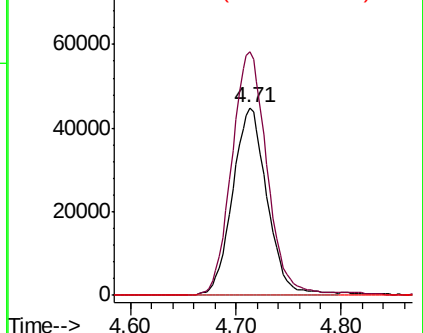
#22
 cis-1,2-Dichloroethene
 Concen: 4.443 ug/L
 RT: 4.71 min Scan# 1049
 Delta R.T. 0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tgt Ion: 96 Resp: 102010
 Ion Ratio Lower Upper
 96 100
 61 129.7 90.5 168.1
 68 0.0 0.3 0.5#

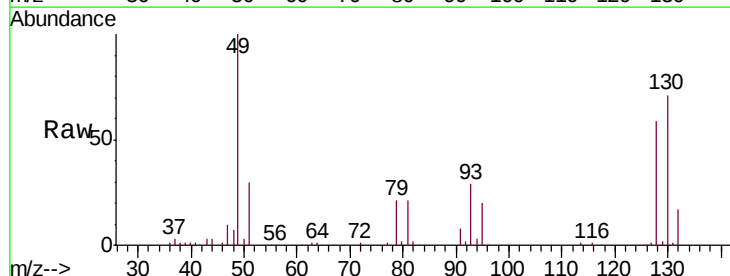


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

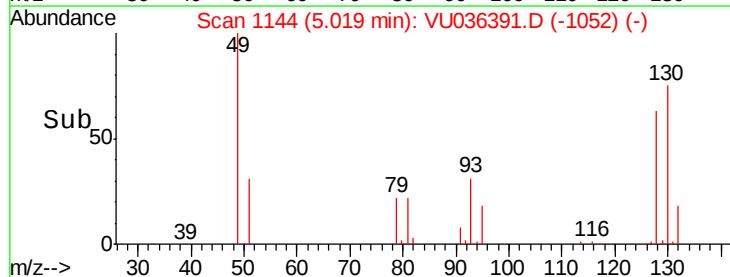
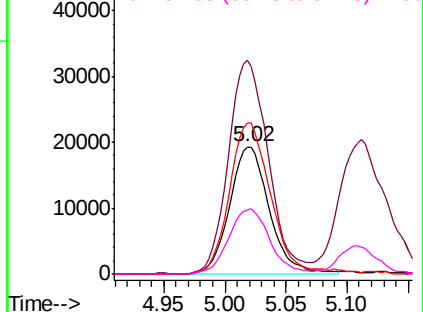


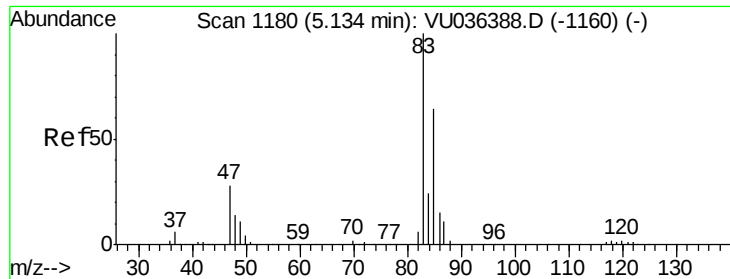
#23
 Bromochloromethane
 Concen: 4.563 ug/L
 RT: 5.02 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

Tgt Ion: 128 Resp: 43647
 Ion Ratio Lower Upper
 128 100
 49 168.2 124.2 230.6
 130 119.4 99.3 184.3
 51 50.7 42.7 64.1



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: 4.552 ug/L

RT: 5.13 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

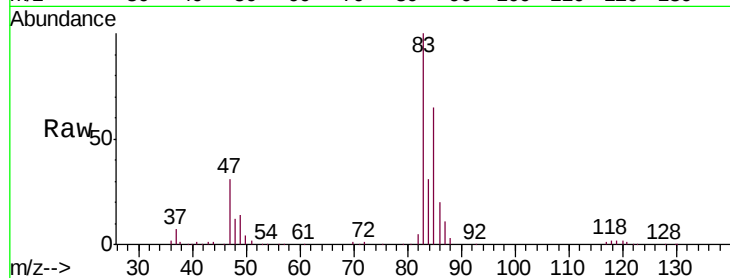
VSTD00512

Tgt Ion: 83 Resp: 179044

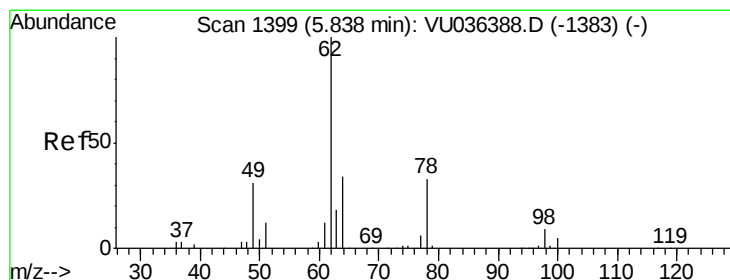
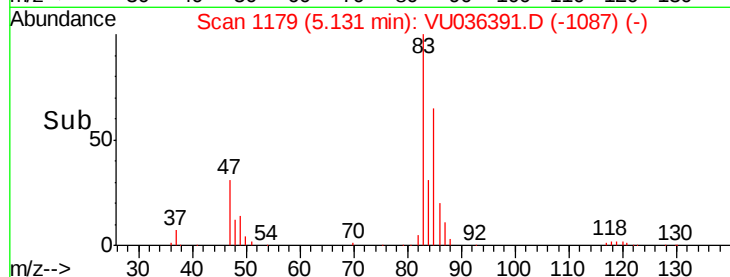
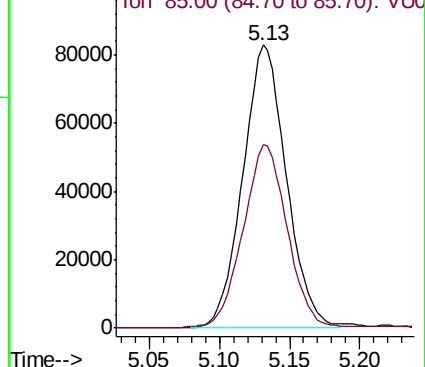
Ion Ratio Lower Upper

83 100

85 64.9 44.1 81.9



Abundance Ion 83.05 (82.75 to 83.75): VU036388.D (-1160) (-)



#27

1,2-Dichloroethane

Concen: 4.674 ug/L

RT: 5.84 min Scan# 1398

Delta R.T. -0.00 min

Lab File: VU036391.D

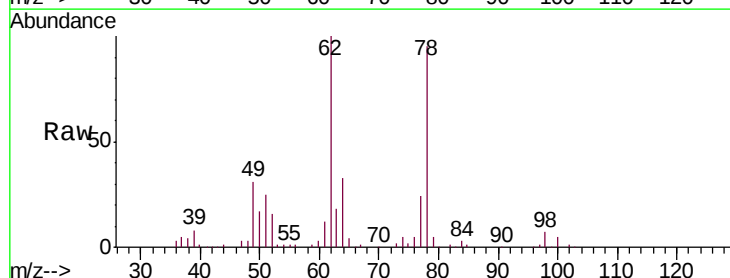
Acq: 02 Jan 2020 14:50

Tgt Ion: 62 Resp: 121043

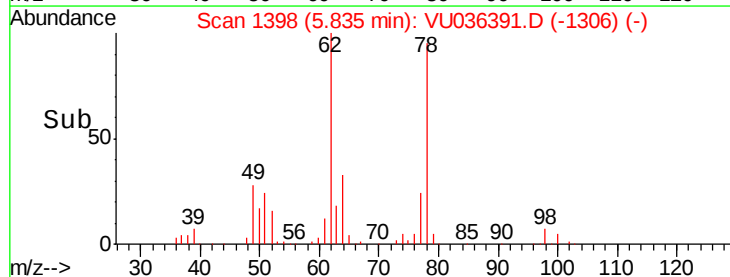
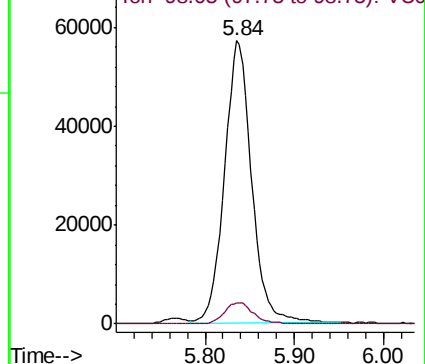
Ion Ratio Lower Upper

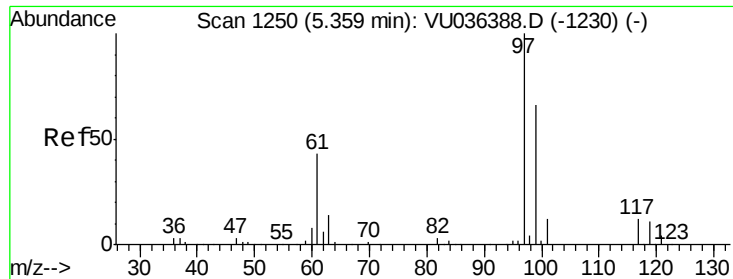
62 100

98 7.4 6.6 10.0



Abundance Ion 62.00 (61.70 to 62.70): VU036388.D (-1383) (-)

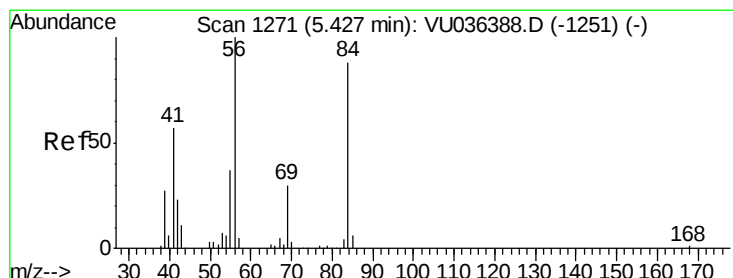
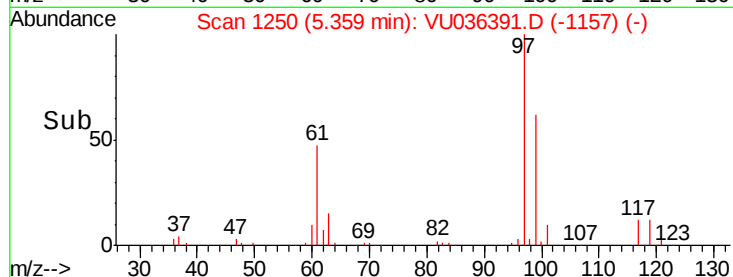
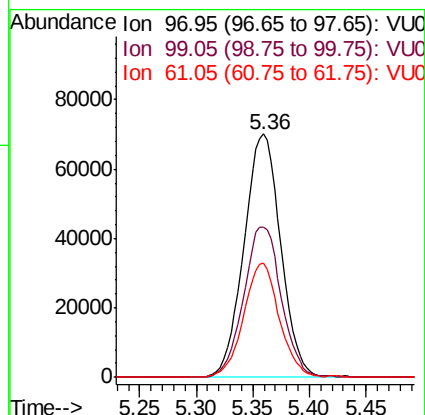
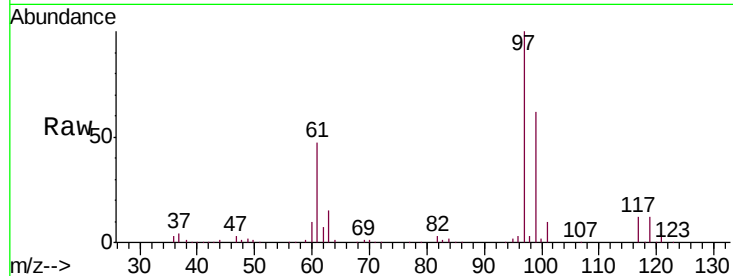




#29
 1,1,1-Trichloroethane
 Concen: 4.356 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

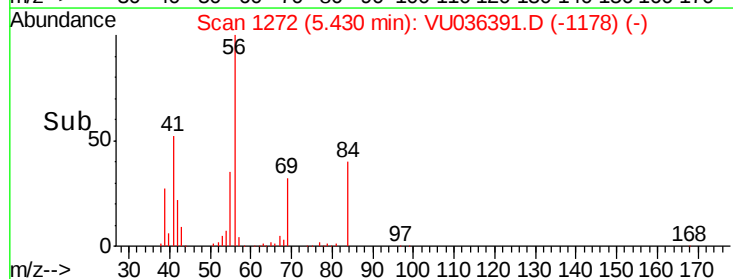
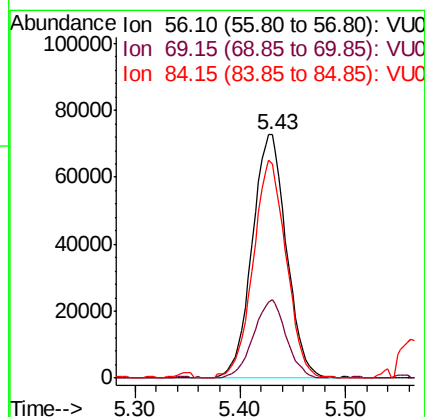
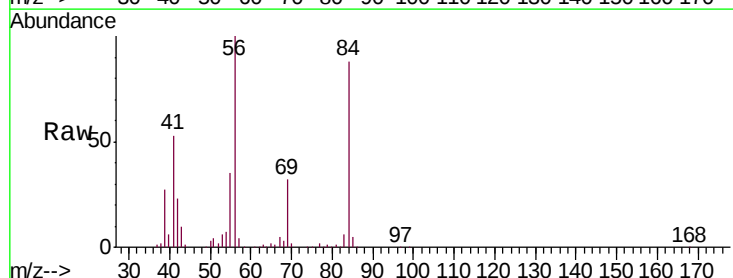
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

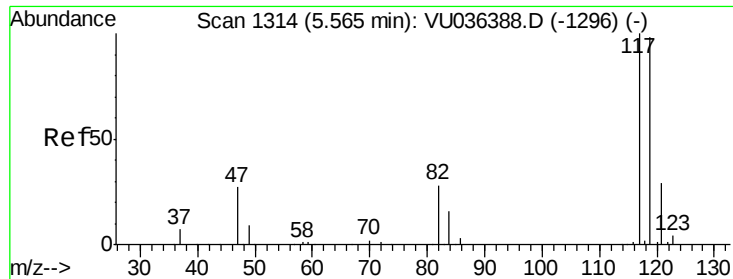
Tgt Ion: 97 Resp: 158514
 Ion Ratio Lower Upper
 97 100
 99 63.5 50.1 75.1
 61 45.6 35.0 52.4



#30
 Cyclohexane
 Concen: 4.550 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

Tgt Ion: 56 Resp: 164706
 Ion Ratio Lower Upper
 56 100
 69 30.7 23.6 35.4
 84 86.6 66.0 99.0





#31

Carbon tetrachloride

Concen: 4.396 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

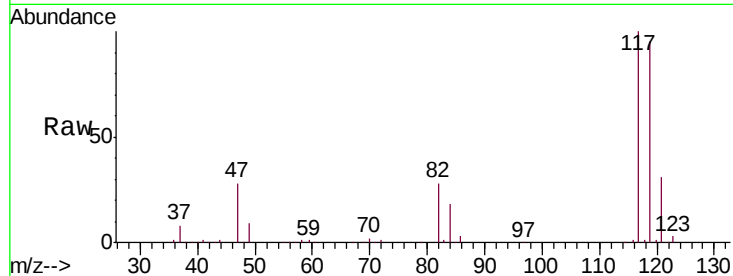
VSTD00512

Tgt Ion:117 Resp: 136014

Ion Ratio Lower Upper

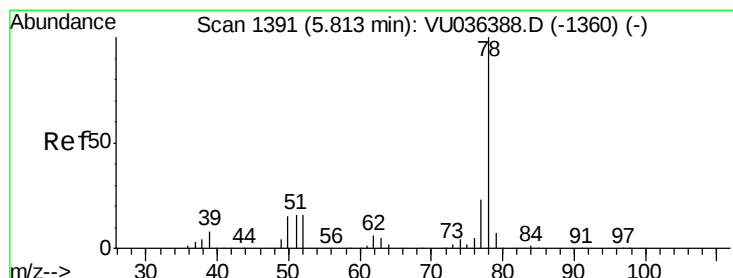
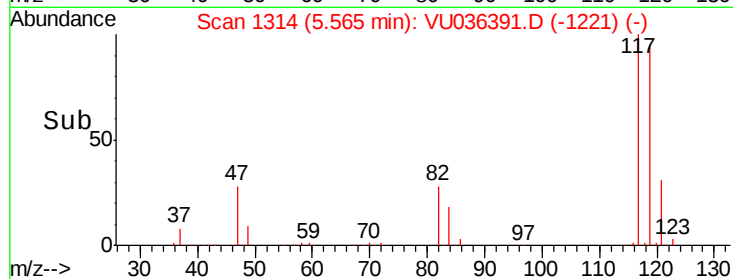
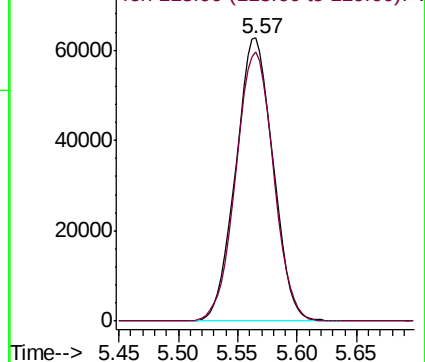
117 100

119 96.1 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.464 ug/L

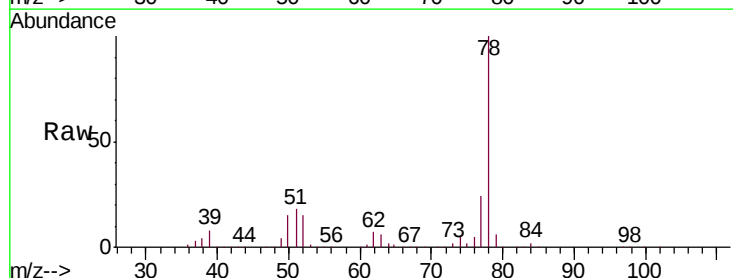
RT: 5.81 min Scan# 1391

Delta R.T. 0.00 min

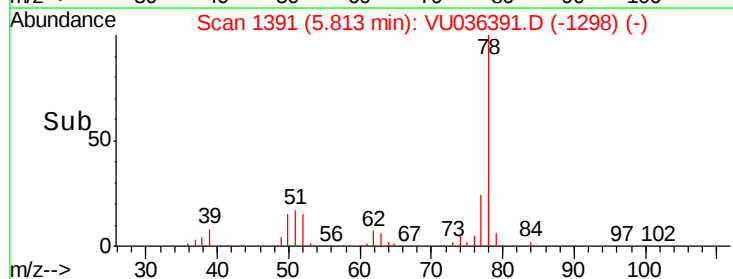
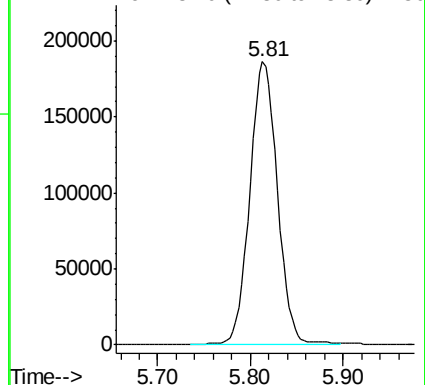
Lab File: VU036391.D

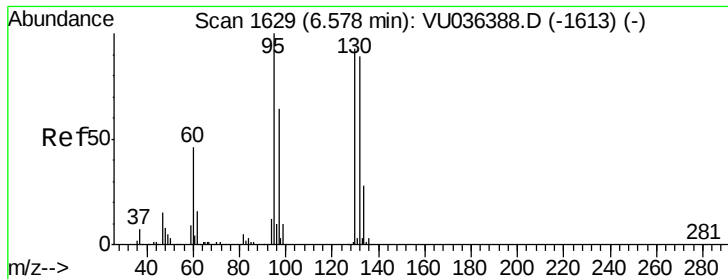
Acq: 02 Jan 2020 14:50

Tgt Ion: 78 Resp: 386923



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.493 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

Tgt Ion: 95 Resp: 104901

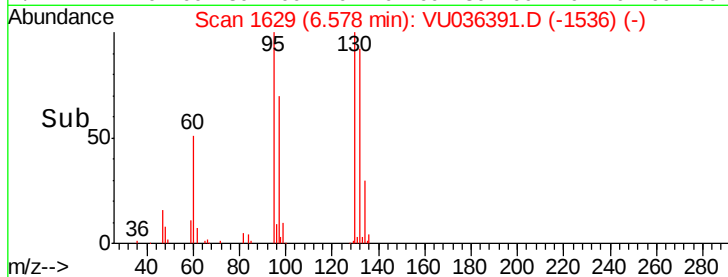
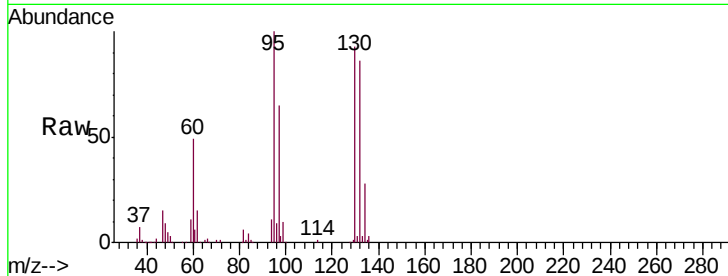
Ion Ratio Lower Upper

95 100

97 64.7 42.9 79.7

132 85.6 62.4 116.0

130 92.6 62.9 116.9

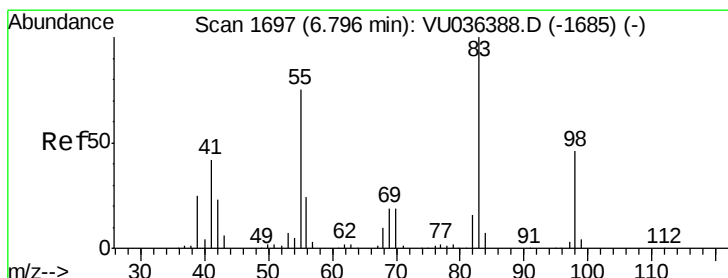
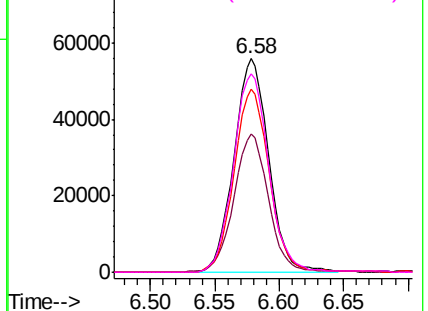


Abundance Ion 95.00 (94.70 to 95.70): VU036391.D (-1536) (-)

Ion 96.95 (96.65 to 97.65): VU036391.D (-1536) (-)

Ion 131.95 (131.65 to 132.65): VU036391.D (-1536) (-)

Ion 129.95 (129.65 to 130.65): VU036391.D (-1536) (-)



#35

Methylcyclohexane

Concen: 4.750 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

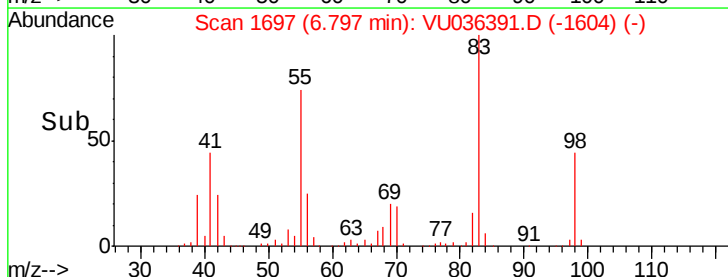
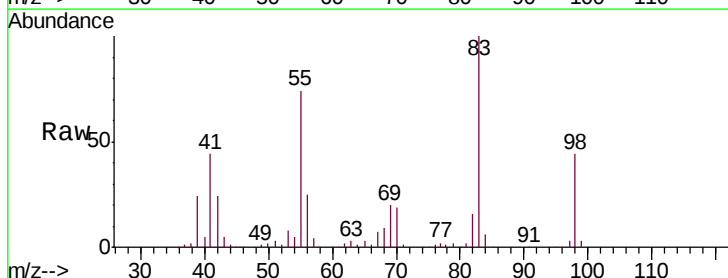
Tgt Ion: 83 Resp: 175743

Ion Ratio Lower Upper

83 100

55 74.3 61.5 92.3

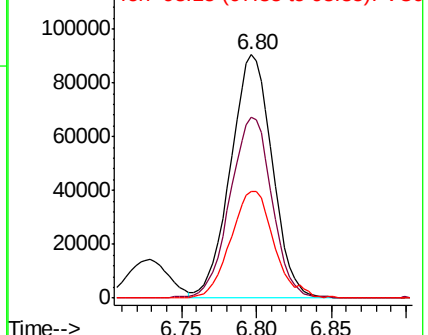
98 45.5 36.9 55.3

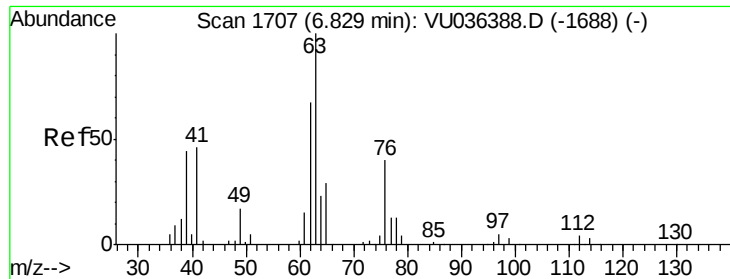


Abundance Ion 83.15 (82.85 to 83.85): VU036391.D (-1604) (-)

Ion 55.10 (54.80 to 55.80): VU036391.D (-1604) (-)

Ion 98.15 (97.85 to 98.85): VU036391.D (-1604) (-)

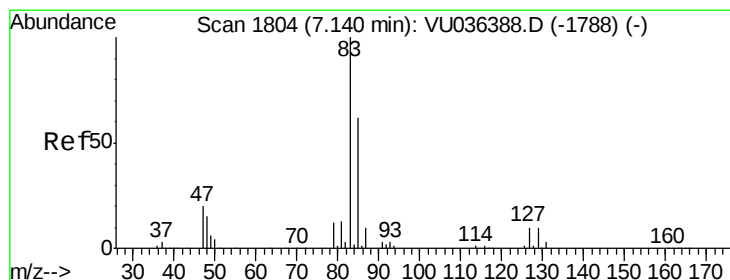
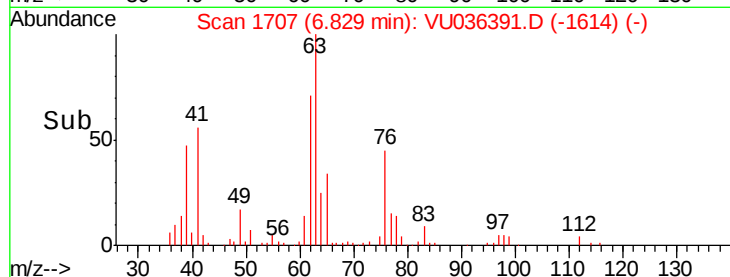
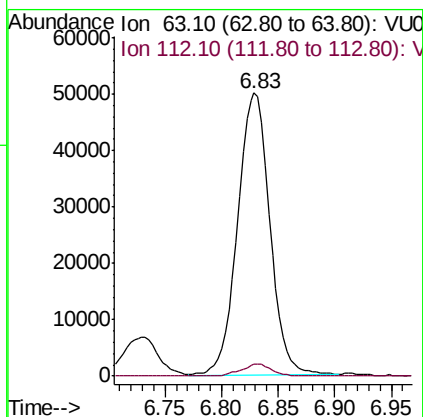
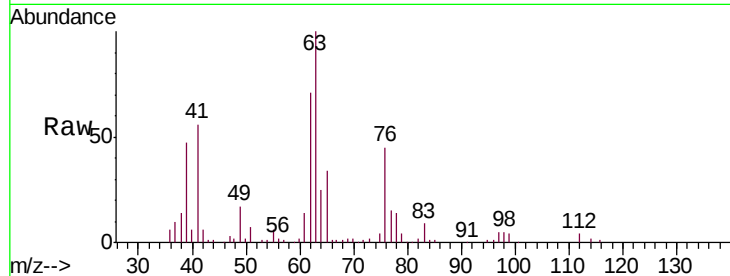




#37
 1,2-Dichloropropane
 Concen: 4.447 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

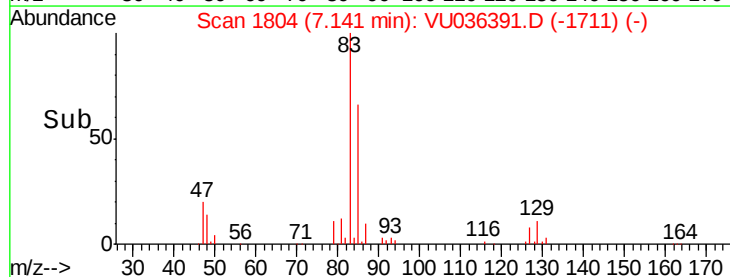
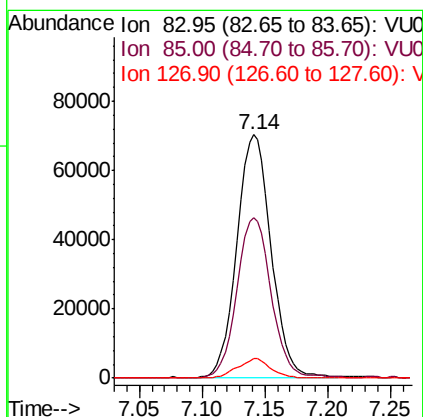
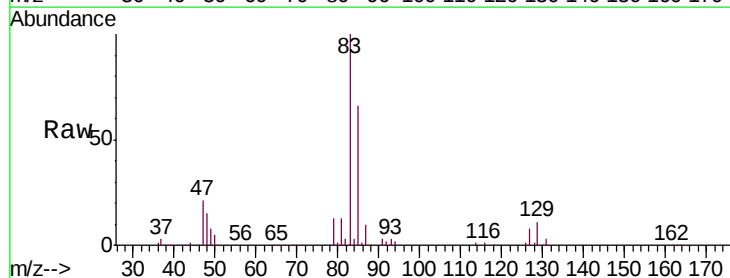
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

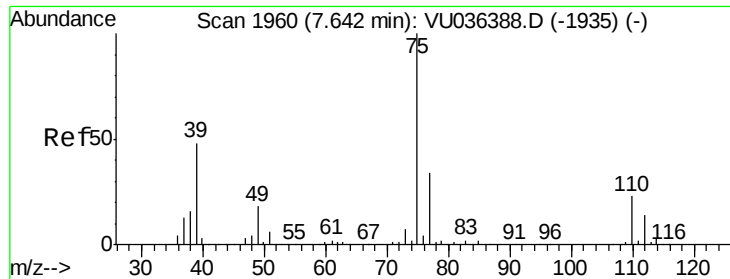
Tgt Ion: 63 Resp: 99446
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.0 4.4



#38
 Bromodichloromethane
 Concen: 4.352 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

Tgt Ion: 83 Resp: 134303
 Ion Ratio Lower Upper
 83 100
 85 65.9 45.0 83.6
 127 8.0 6.3 9.5

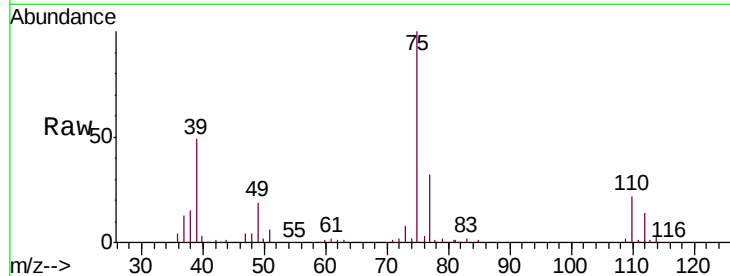




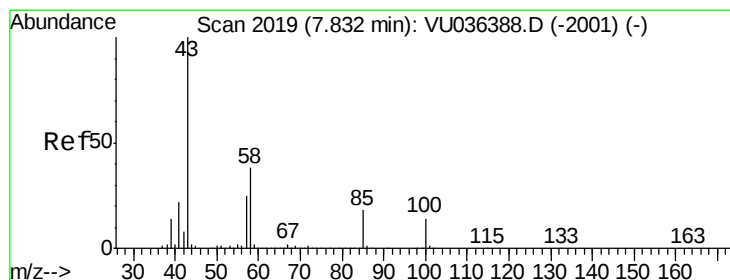
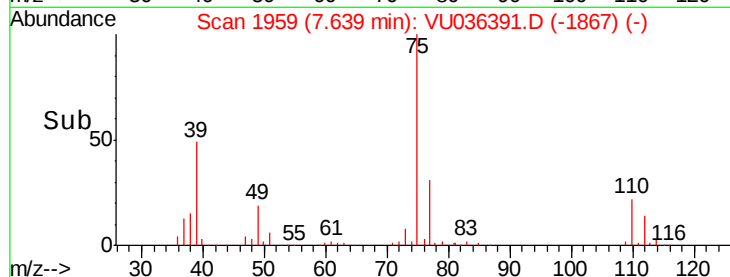
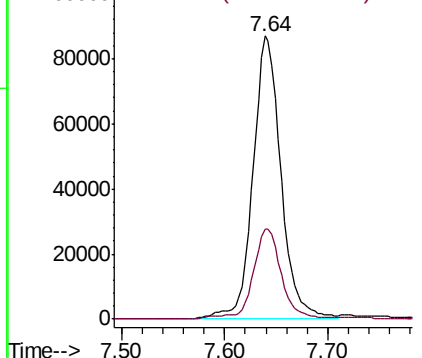
#39
 cis-1,3-Dichloropropene
 Concen: 4.478 ug/L
 RT: 7.64 min Scan# 1959
 Delta R.T. -0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tgt Ion: 75 Resp: 164157
 Ion Ratio Lower Upper
 75 100
 77 31.7 23.2 43.2

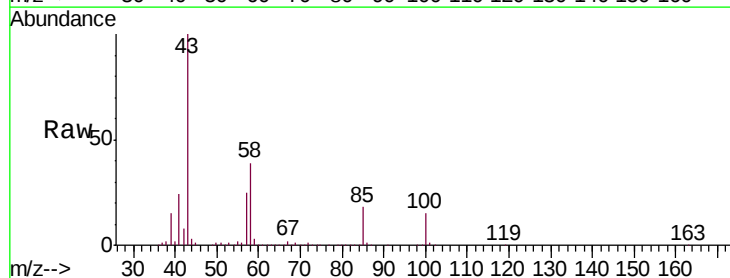


Abundance Ion 75.05 (74.75 to 75.75): VU036388.D (-1935) (-)
 Ion 77.05 (76.75 to 77.75): VU036391.D (-1867) (-)

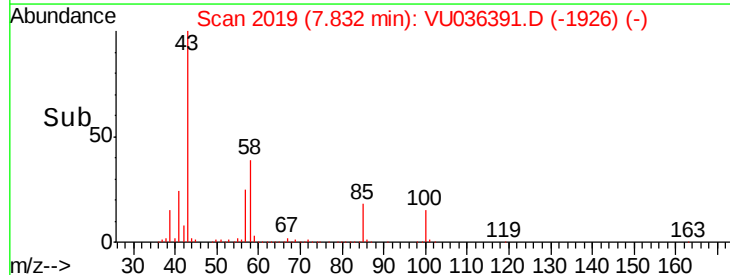
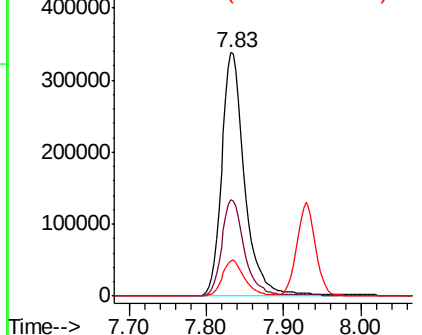


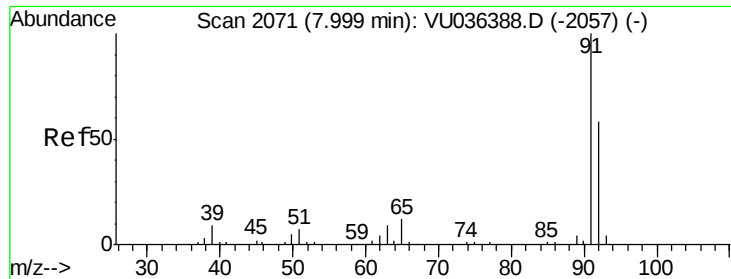
#40
 4-Methyl-2-pentanone
 Concen: 44.504 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

Tgt Ion: 43 Resp: 700965
 Ion Ratio Lower Upper
 43 100
 58 39.0 31.8 47.6
 100 14.2 11.5 17.3



Abundance Ion 43.05 (42.75 to 43.75): VU036388.D (-2001) (-)
 Ion 58.05 (57.75 to 58.75): VU036391.D (-1926) (-)
 Ion 100.15 (99.85 to 100.85): VU036391.D (-1926) (-)





#42

Toluene

Concen: 4.457 ug/L

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

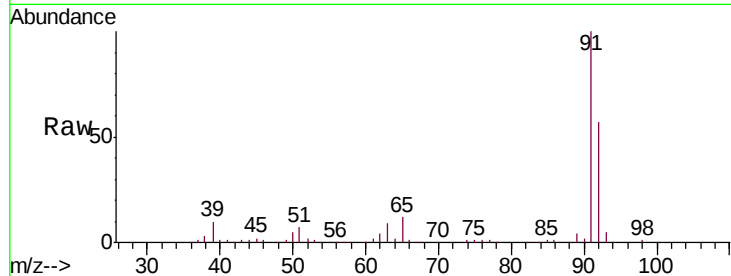
VSTD00512

Tgt Ion: 91 Resp: 427423

Ion Ratio Lower Upper

91 100

92 56.6 39.5 73.3



Abundance Ion 91.15 (90.85 to 91.85): VU036388.D (-2057) (-)

Ion 92.15 (91.85 to 92.85): VU036388.D (-2057) (-)

8.00

250000

200000

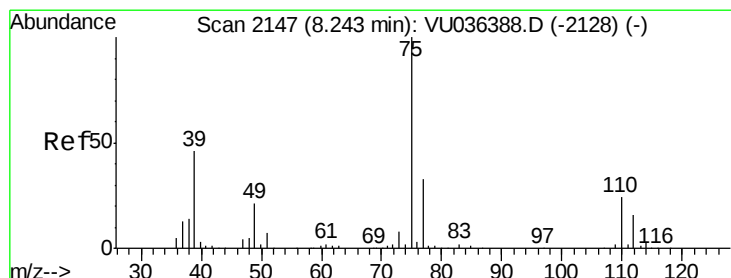
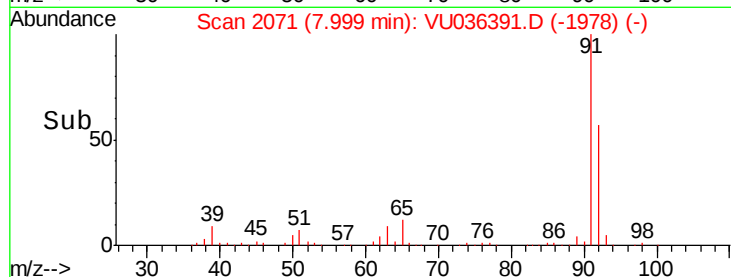
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.419 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036391.D

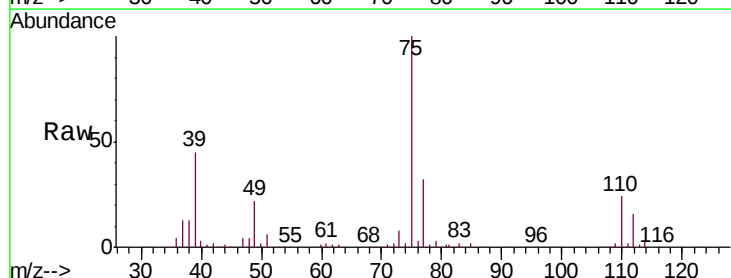
Acq: 02 Jan 2020 14:50

Tgt Ion: 75 Resp: 133103

Ion Ratio Lower Upper

75 100

77 32.1 22.0 41.0



Abundance Ion 75.05 (74.75 to 75.75): VU036388.D (-2128) (-)

Ion 77.05 (76.75 to 77.75): VU036388.D (-2128) (-)

8.24

80000

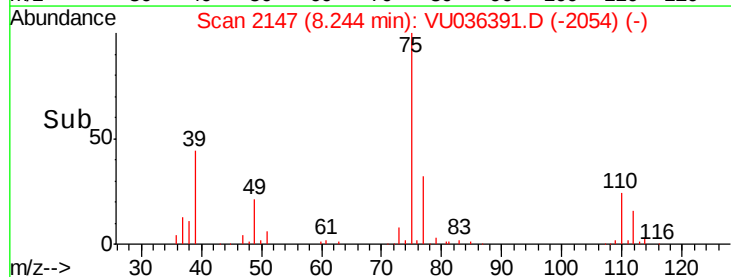
60000

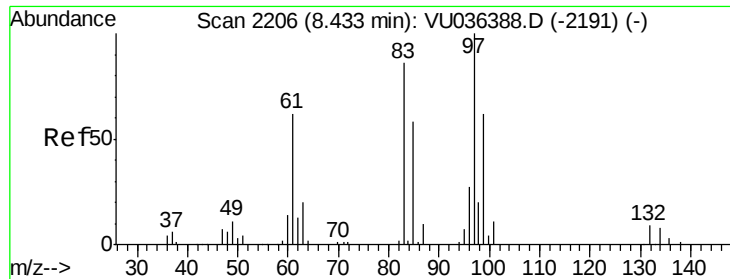
40000

20000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.402 ug/L

RT: 8.43 min Scan# 2205

Delta R.T. -0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

Tgt Ion: 97 Resp: 71583

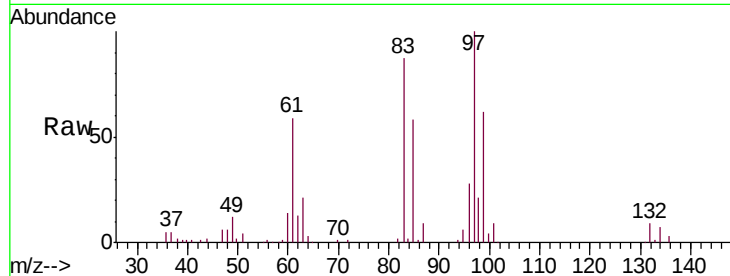
Ion Ratio Lower Upper

97 100

99 61.7 43.3 80.5

83 87.1 62.2 115.6

85 57.8 41.9 77.9

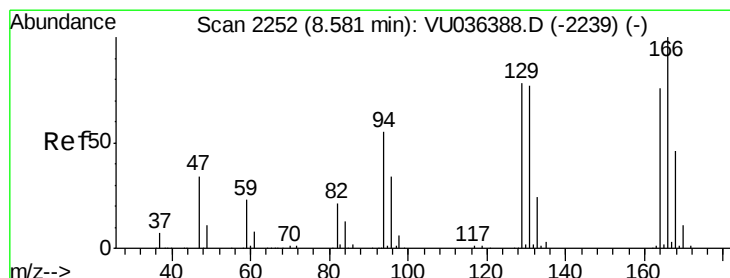
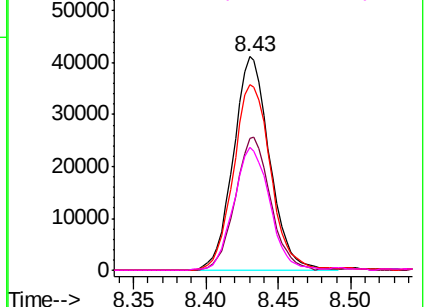
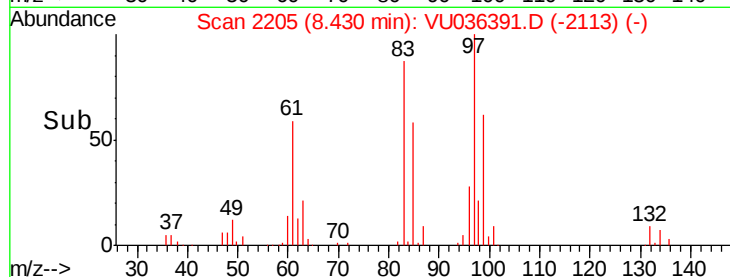


Abundance Ion 96.95 (96.65 to 97.65): VU0

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: 4.356 ug/L

RT: 8.58 min Scan# 2252

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Tgt Ion: 164 Resp: 71569

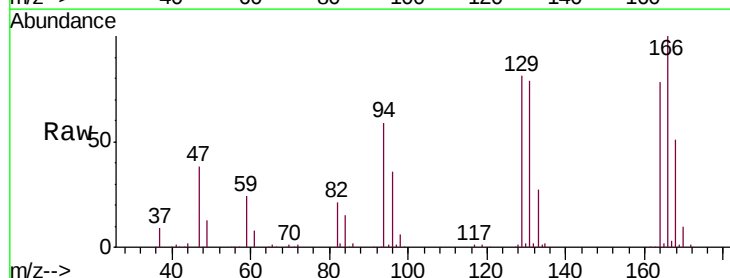
Ion Ratio Lower Upper

164 100

129 103.2 70.3 130.5

131 101.4 70.4 130.8

166 127.9 92.1 171.1

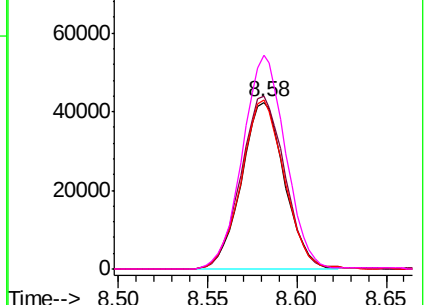
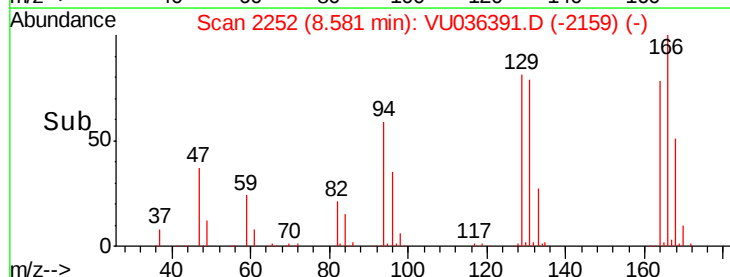


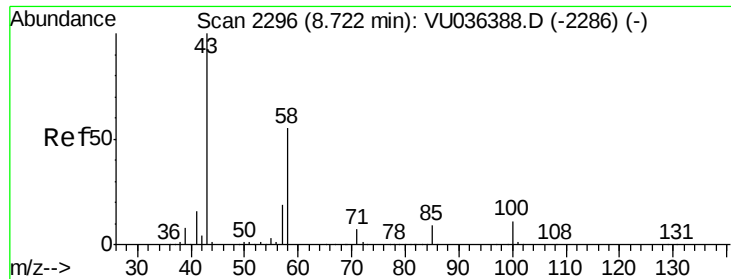
Abundance Ion 163.90 (163.60 to 164.60): V

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

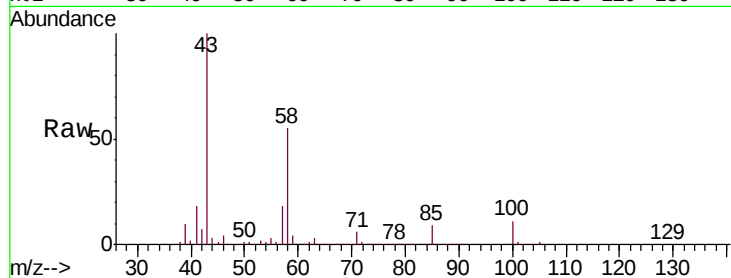




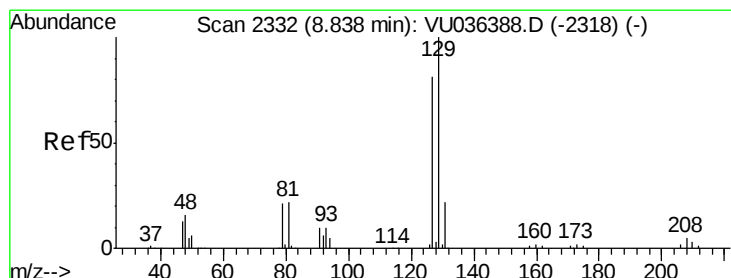
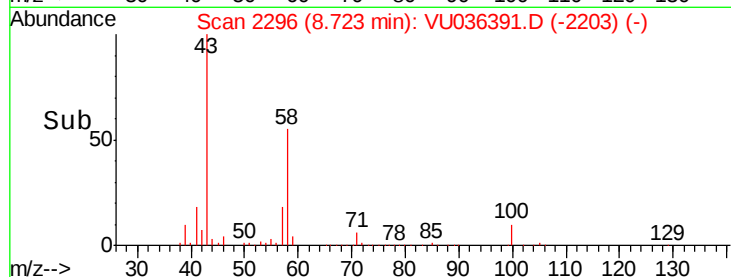
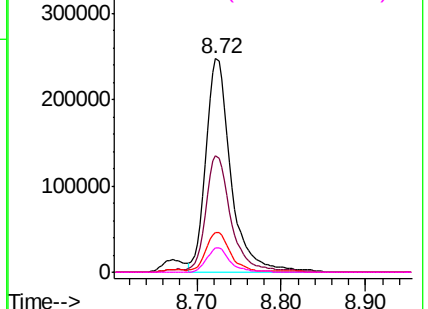
#48
2-Hexanone
Concen: 45.888 ug/L
RT: 8.72 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU036391.D
Acq: 02 Jan 2020 14:50

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tgt Ion: 43 Resp: 511591
Ion Ratio Lower Upper
43 100
58 55.3 42.7 64.1
57 16.8 14.6 22.0
100 10.7 9.0 13.6

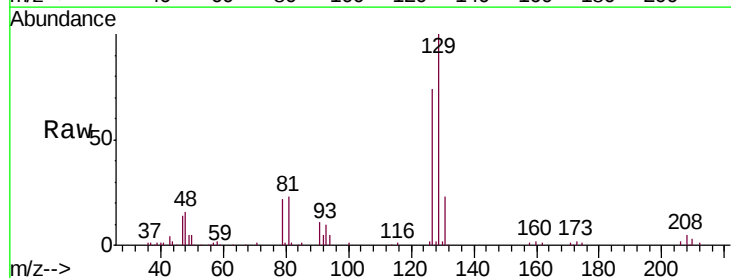


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

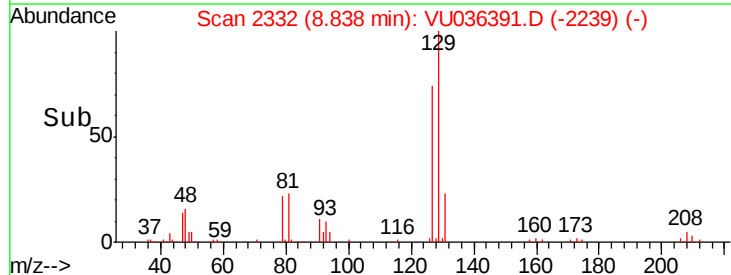
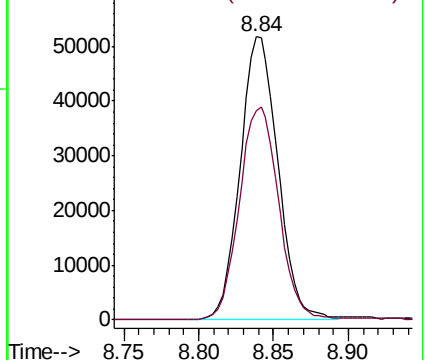


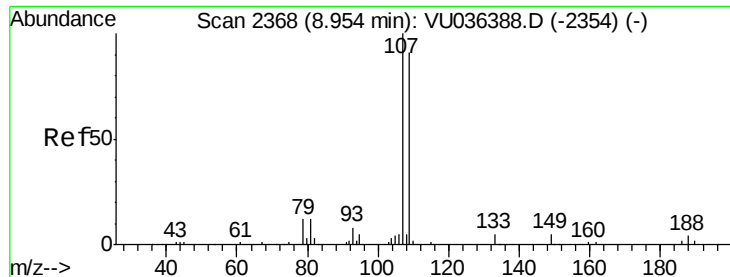
#49
Dibromochloromethane
Concen: 4.238 ug/L
RT: 8.84 min Scan# 2332
Delta R.T. 0.00 min
Lab File: VU036391.D
Acq: 02 Jan 2020 14:50

Tgt Ion: 129 Resp: 91198
Ion Ratio Lower Upper
129 100
127 74.0 52.7 97.9



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

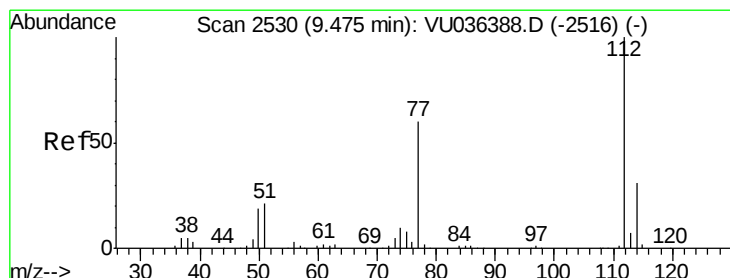
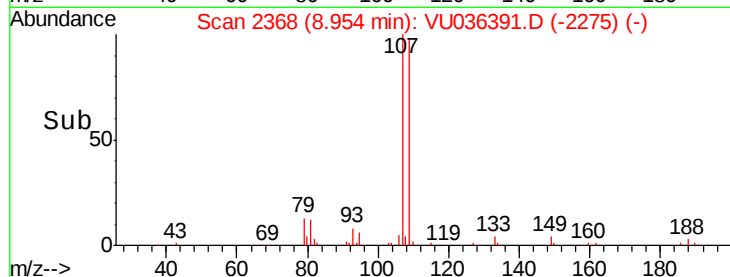
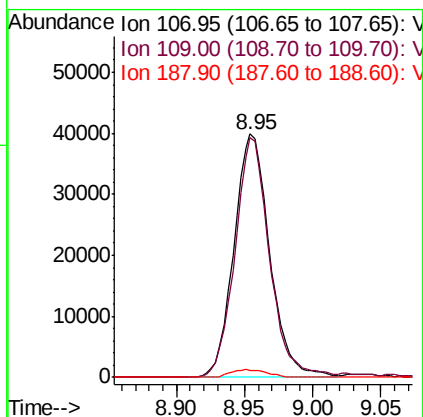
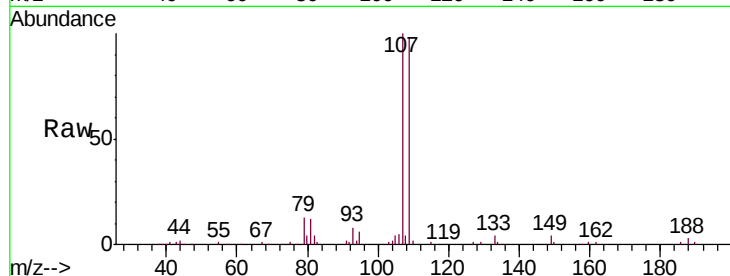




#50
1,2-Dibromoethane
Concen: 4.398 ug/L
RT: 8.95 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VU036391.D
Acq: 02 Jan 2020 14:50

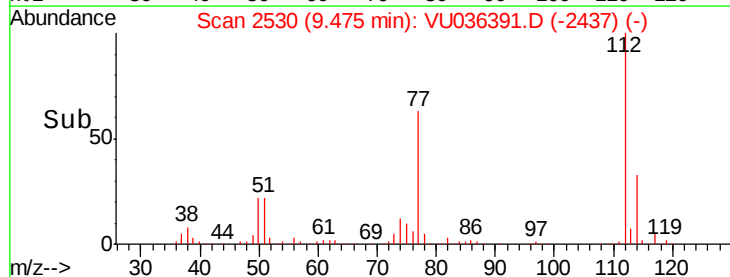
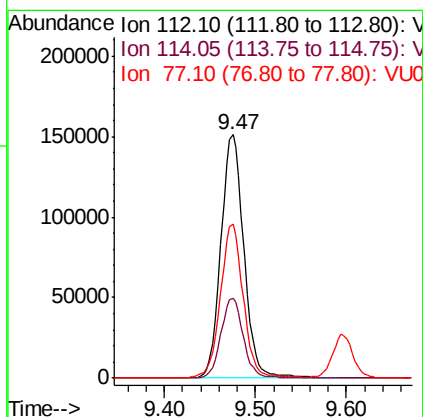
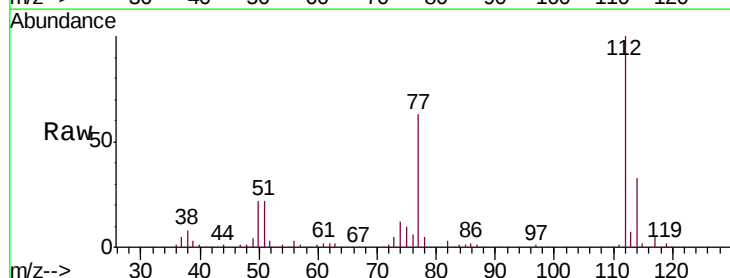
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

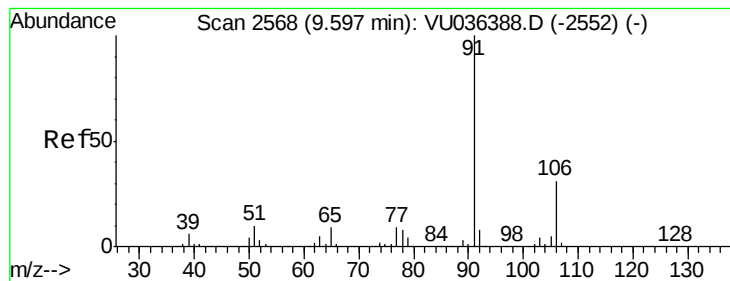
Tgt Ion:107 Resp: 72493
Ion Ratio Lower Upper
107 100
109 98.4 64.3 119.5
188 3.0 2.2 3.2



#51
Chlorobenzene
Concen: 4.432 ug/L
RT: 9.47 min Scan# 2530
Delta R.T. 0.00 min
Lab File: VU036391.D
Acq: 02 Jan 2020 14:50

Tgt Ion:112 Resp: 265036
Ion Ratio Lower Upper
112 100
114 32.9 22.7 42.3
77 63.2 47.8 71.8





#52

Ethylbenzene

Concen: 4.630 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

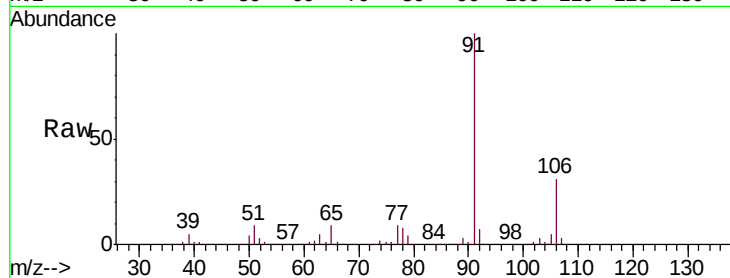
VSTD00512

Tgt Ion: 91 Resp: 492168

Ion Ratio Lower Upper

91 100

106 30.6 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU036391.D (-2475) (-)

Ion 106.15 (105.85 to 106.85): VU036391.D (-2475) (-)

9.60

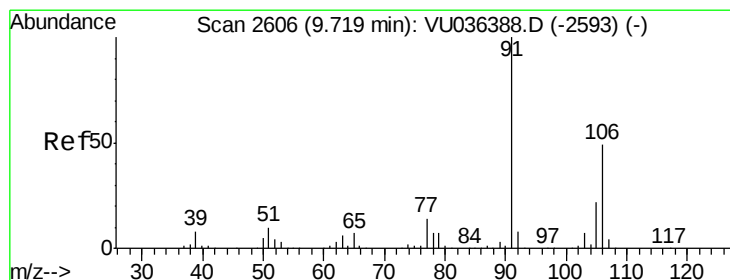
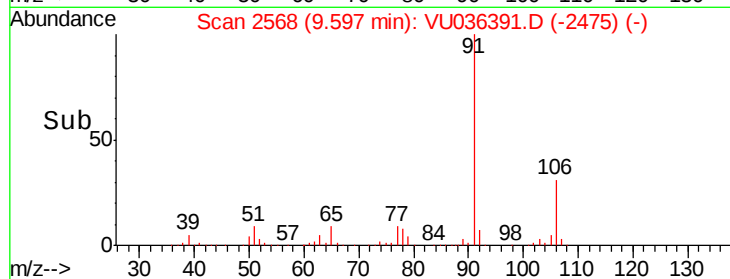
300000

200000

100000

0

Time-->



#53

m,p-Xylene

Concen: 4.516 ug/L

RT: 9.72 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VU036391.D

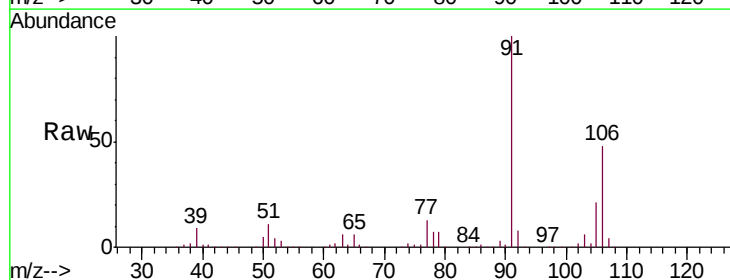
Acq: 02 Jan 2020 14:50

Tgt Ion: 106 Resp: 184451

Ion Ratio Lower Upper

106 100

91 209.7 146.5 272.1



Abundance Ion 106.15 (105.85 to 106.85): VU036391.D (-2513) (-)

Ion 91.15 (90.85 to 91.85): VU036391.D (-2513) (-)

9.72

250000

200000

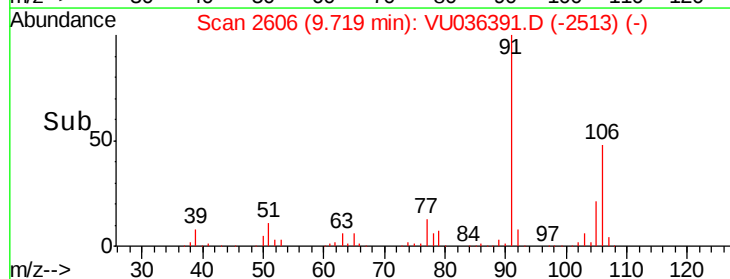
150000

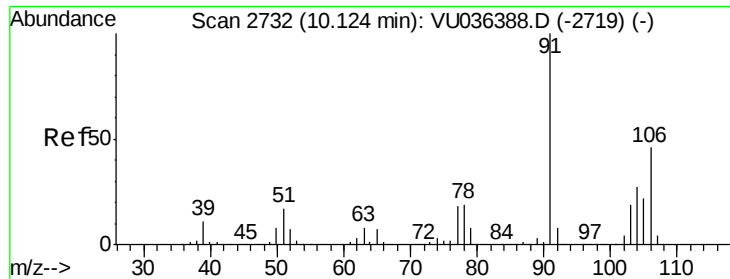
100000

50000

0

Time-->

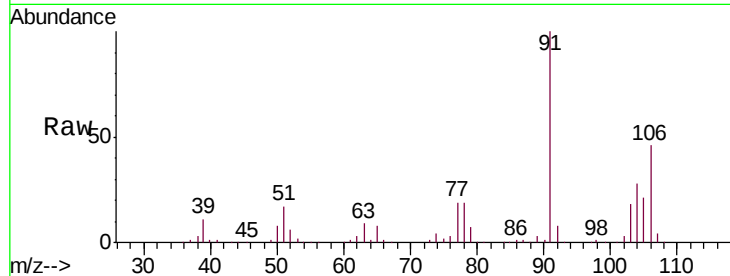




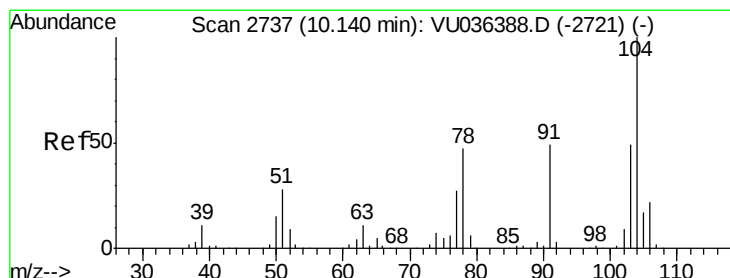
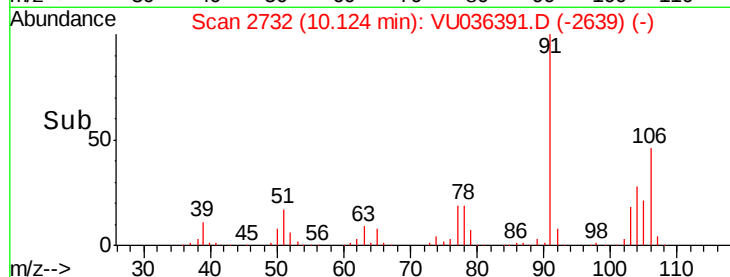
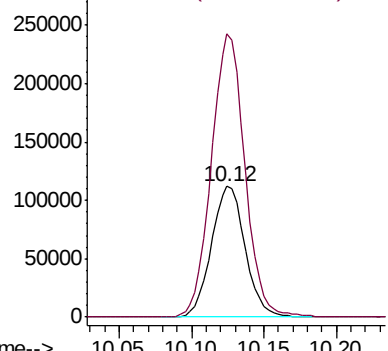
#54
o-Xylene
Concen: 4.565 ug/L
RT: 10.12 min Scan# 2732
Delta R.T. 0.00 min
Lab File: VU036391.D
Acq: 02 Jan 2020 14:50

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tgt Ion:106 Resp: 181118
Ion Ratio Lower Upper
106 100
91 216.3 151.5 281.5

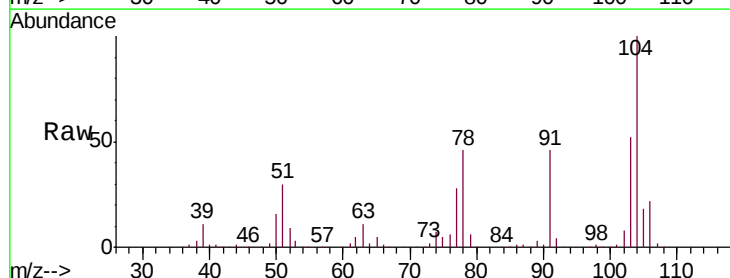


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

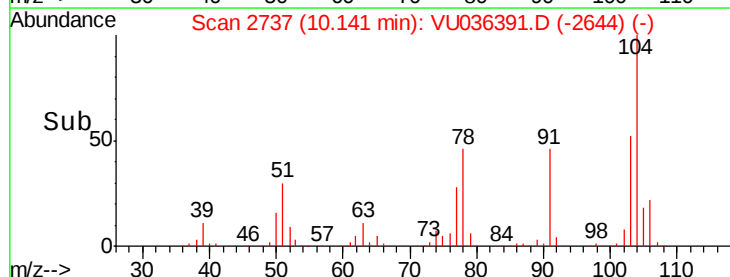
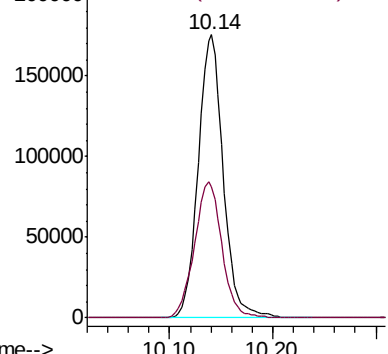


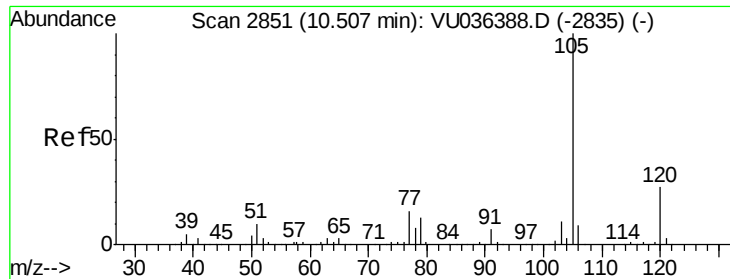
#55
Styrene
Concen: 4.397 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. 0.00 min
Lab File: VU036391.D
Acq: 02 Jan 2020 14:50

Tgt Ion:104 Resp: 296504
Ion Ratio Lower Upper
104 100
78 46.4 33.5 62.1



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





#56

Isopropylbenzene

Concen: 4.549 ug/L

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

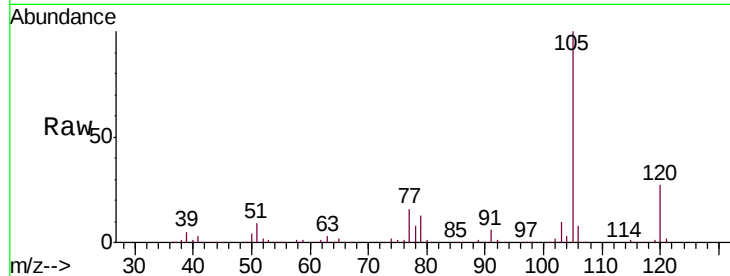
Tgt Ion:105 Resp: 479169

Ion Ratio Lower Upper

105 100

120 26.8 21.1 31.7

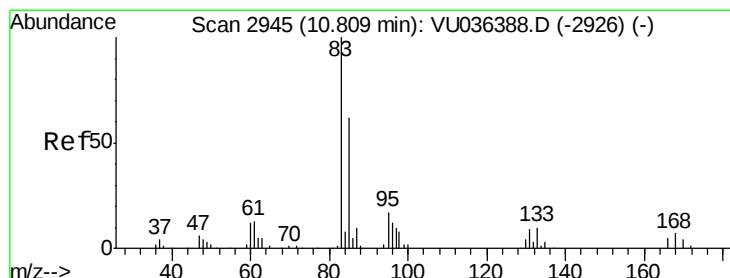
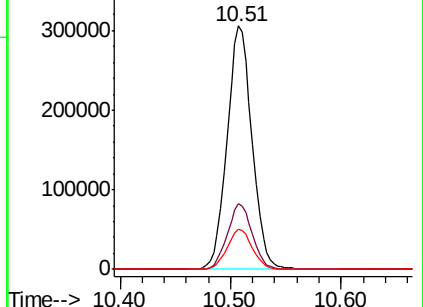
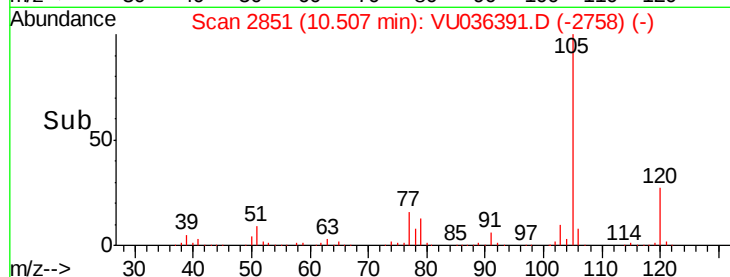
77 16.5 13.2 19.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.344 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

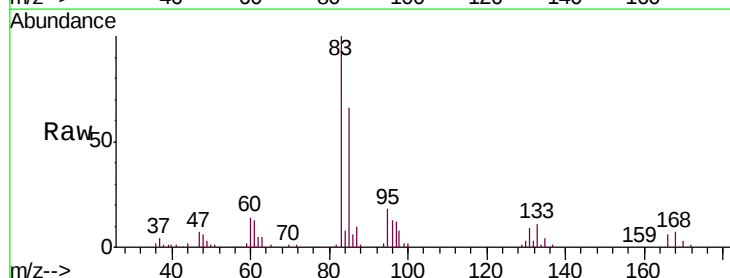
Tgt Ion: 83 Resp: 95243

Ion Ratio Lower Upper

83 100

85 65.6 47.5 88.1

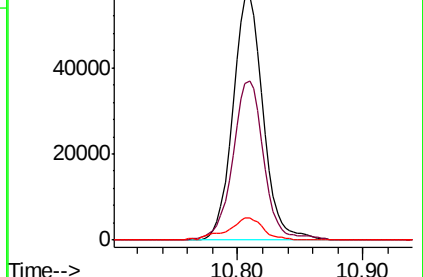
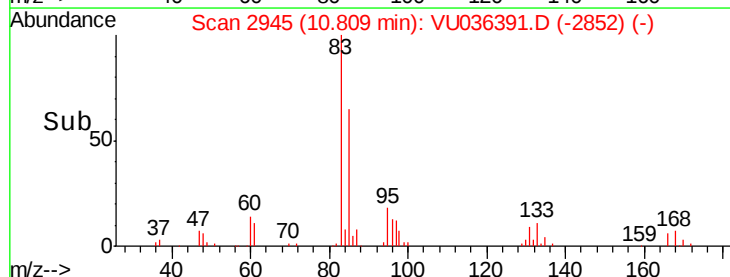
131 8.9 8.8 13.2

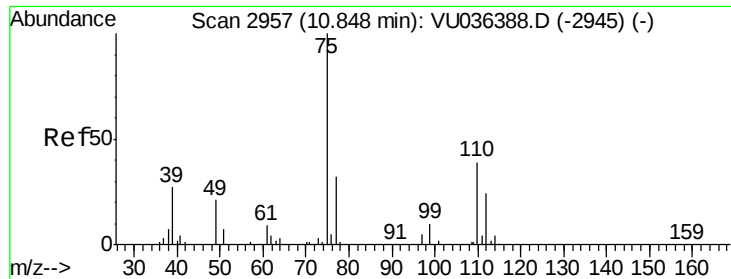


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.509 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

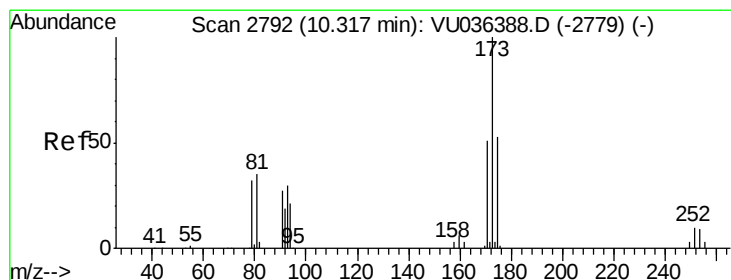
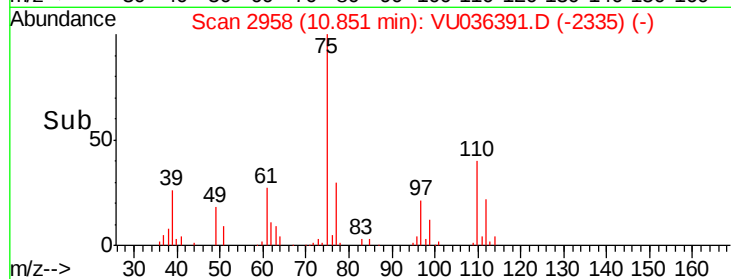
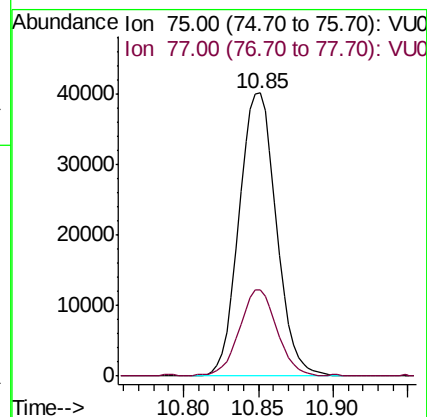
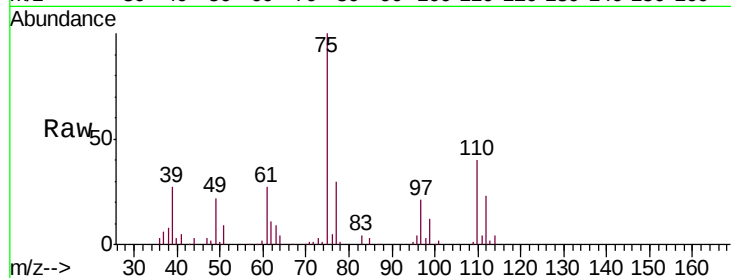
VSTD00512

Tgt Ion: 75 Resp: 69550

Ion Ratio Lower Upper

75 100

77 31.0 27.0 40.4



#61

Bromoform

Concen: 4.050 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

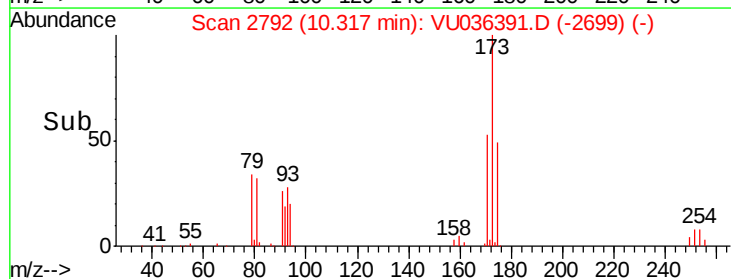
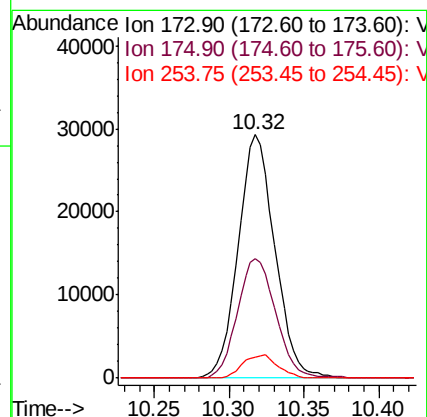
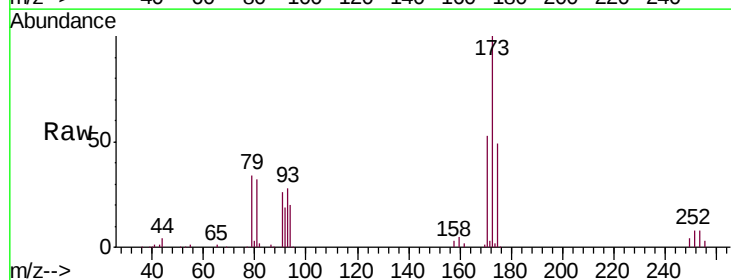
Tgt Ion: 173 Resp: 49930

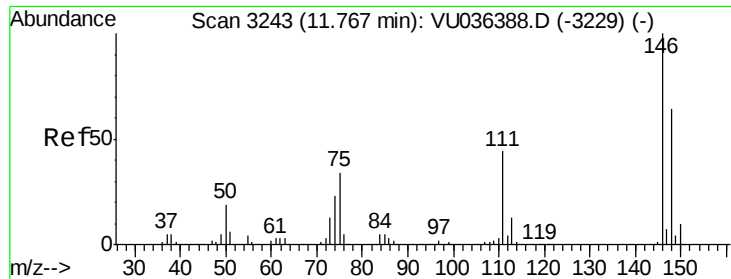
Ion Ratio Lower Upper

173 100

175 51.0 37.0 55.4

254 9.1 7.0 10.6





#62

1,3-Dichlorobenzene

Concen: 4.432 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

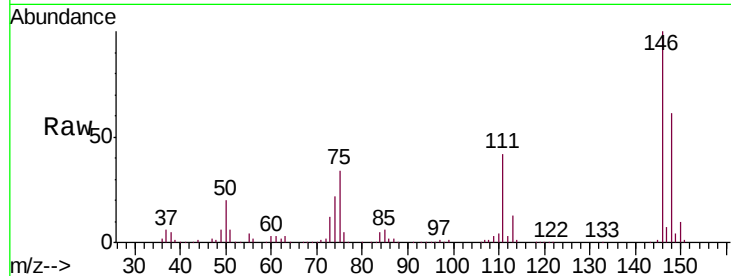
Tgt Ion:146 Resp: 204825

Ion Ratio Lower Upper

146 100

111 42.3 30.2 56.0

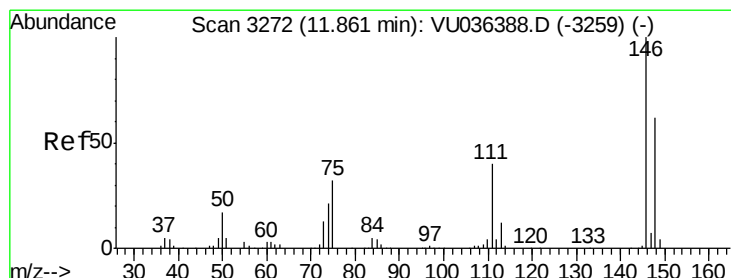
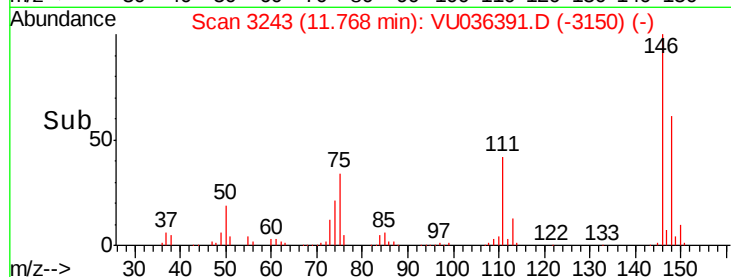
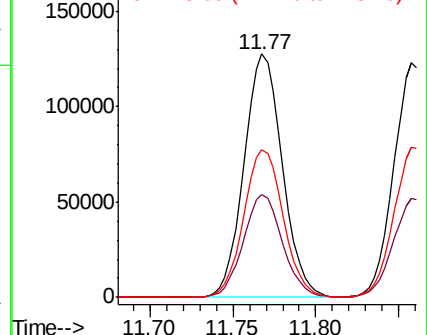
148 60.5 44.2 82.0



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



#63

1,4-Dichlorobenzene

Concen: 4.423 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. -0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

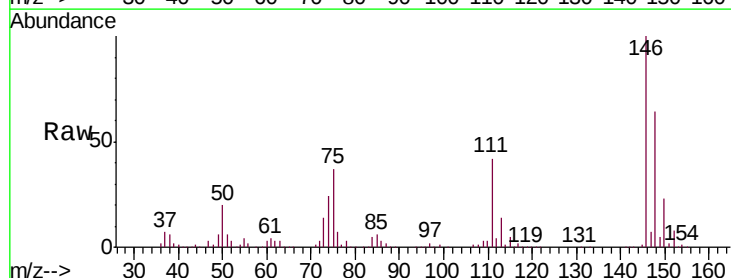
Tgt Ion:146 Resp: 202127

Ion Ratio Lower Upper

146 100

111 42.1 28.6 53.0

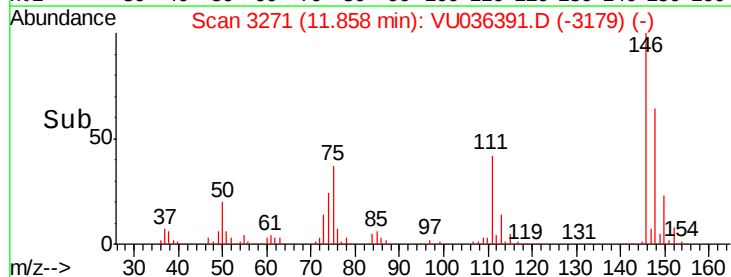
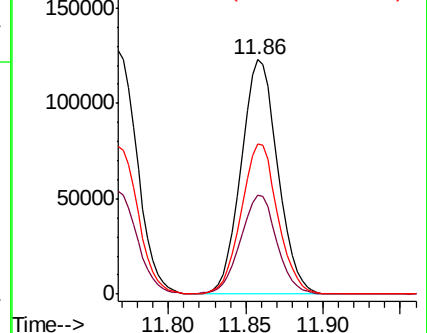
148 64.2 45.0 83.6

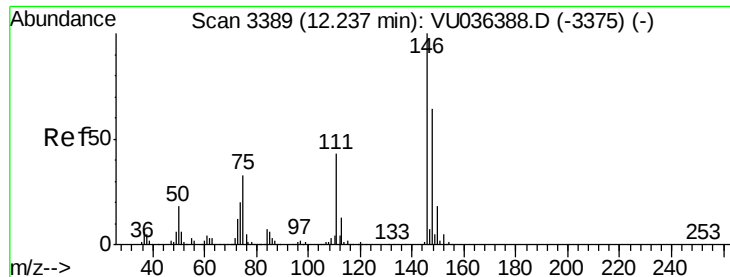


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.394 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

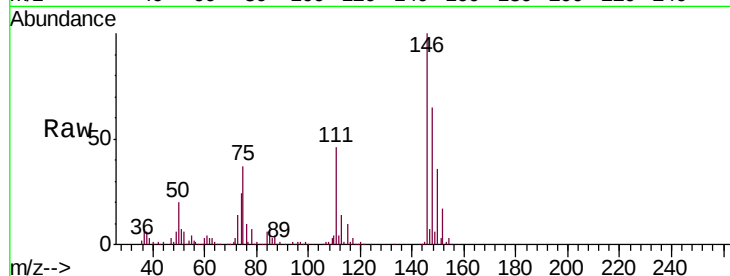
Tgt Ion:146 Resp: 191249

Ion Ratio Lower Upper

146 100

111 45.8 36.4 54.6

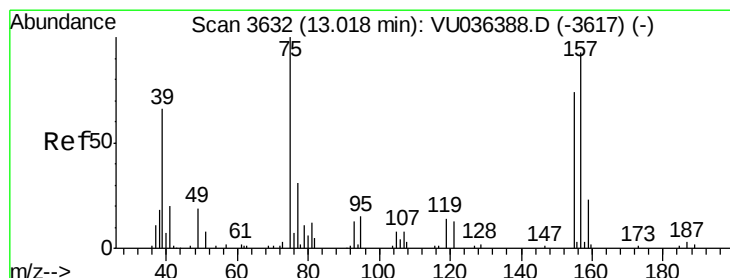
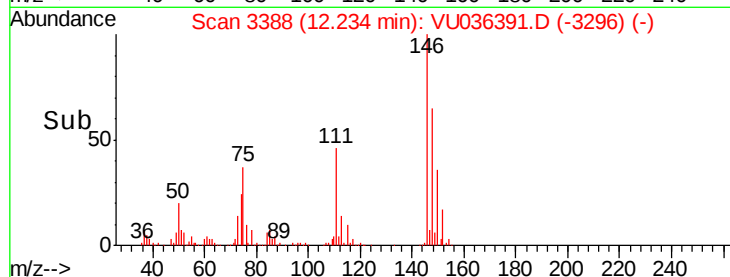
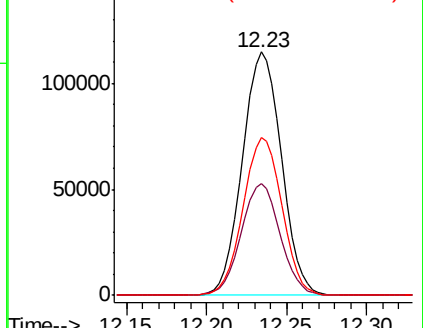
148 64.7 53.4 80.2



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.055 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

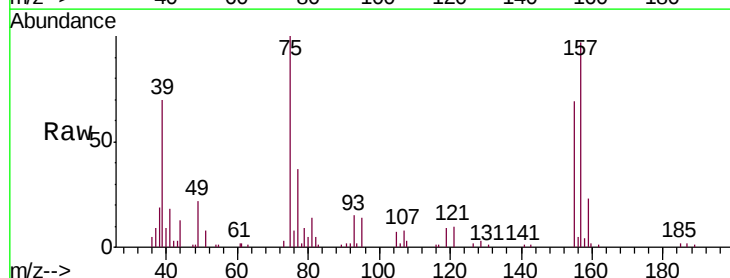
Tgt Ion: 75 Resp: 16224

Ion Ratio Lower Upper

75 100

155 69.2 58.6 88.0

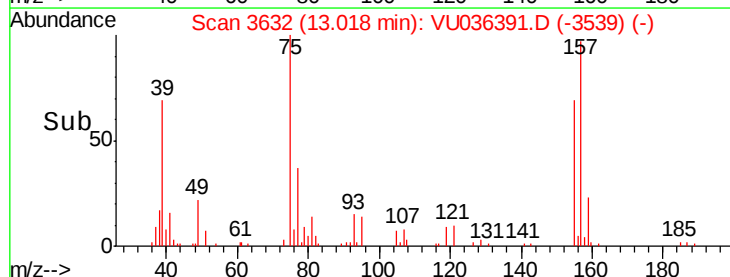
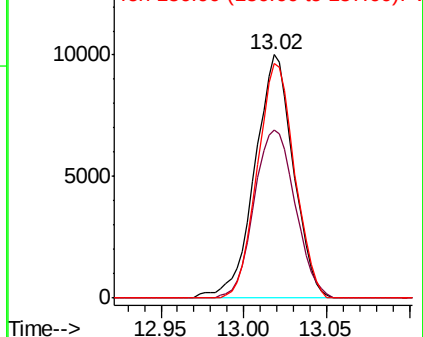
157 96.5 78.7 118.1

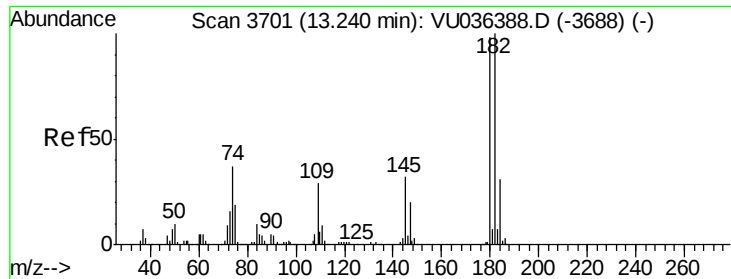


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

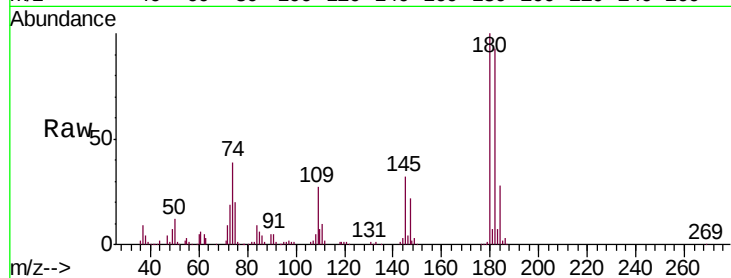




#67
 1,3,5-Trichlorobenzene
 Concen: 4.357 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. -0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	143086		
182	94.1	75.2	112.8	
184	28.8	23.3	34.9	
145	32.0	25.6	38.4	



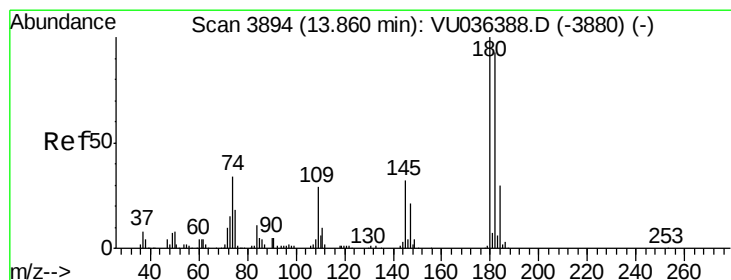
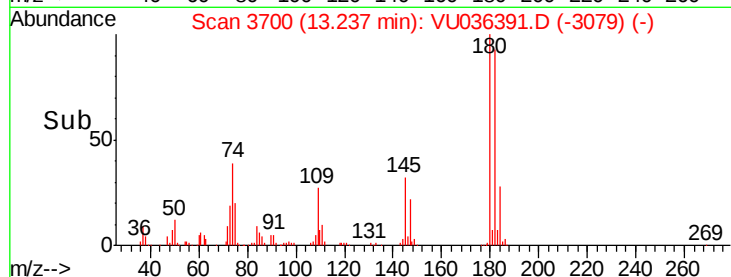
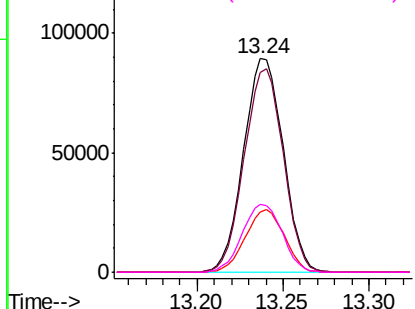
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

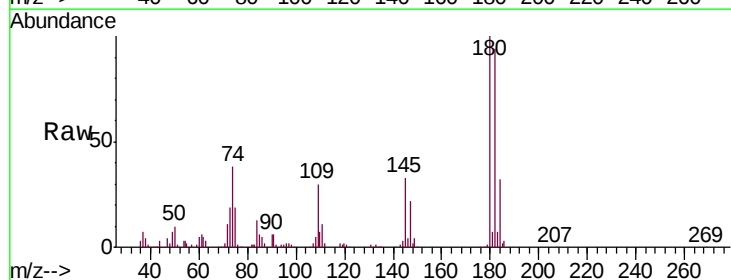
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.036 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036391.D
 Acq: 02 Jan 2020 14:50

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	97322		
182	95.2	75.5	113.3	
145	34.1	26.2	39.2	

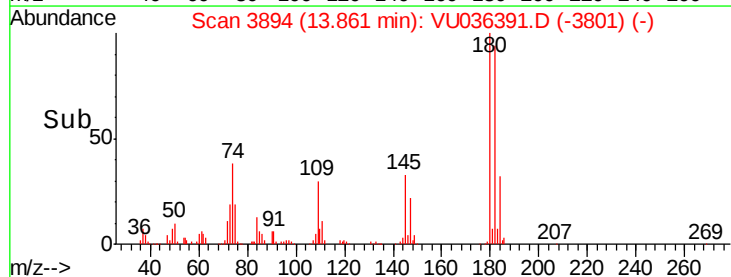
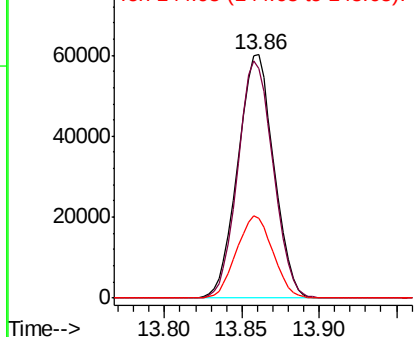


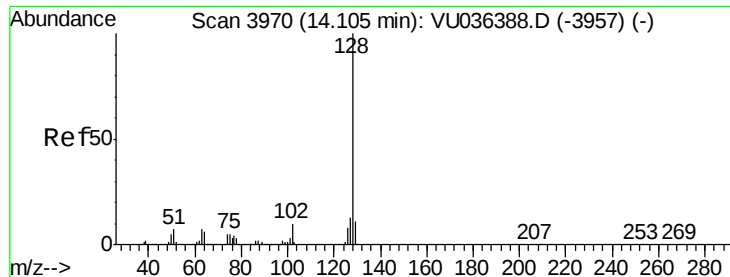
Abundance

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





#69

Naphthalene

Concen: 3.208 ug/L

RT: 14.11 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

Instrument :

MSVOA_U

ClientSampled :

VSTD00512

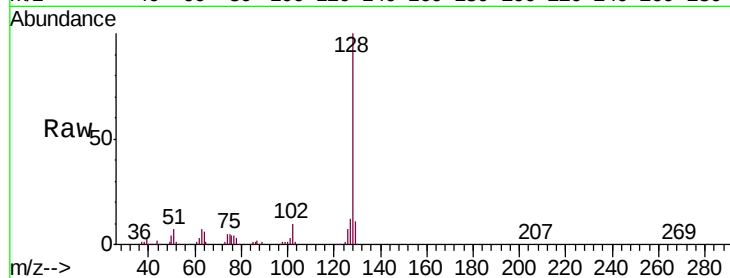
Tgt Ion:128 Resp: 134695

Ion Ratio Lower Upper

128 100

129 11.3 8.6 13.0

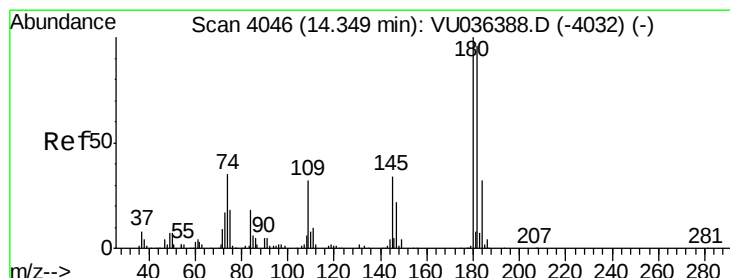
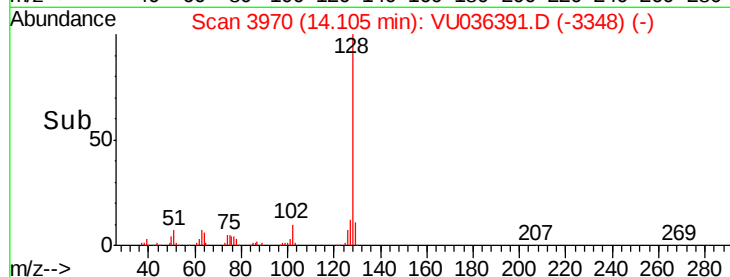
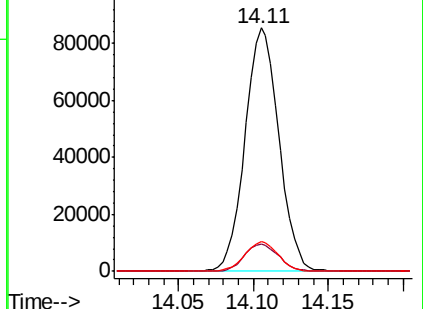
127 12.2 10.6 15.8



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



#70

1,2,3-Trichlorobenzene

Concen: 3.792 ug/L

RT: 14.35 min Scan# 4045

Delta R.T. -0.00 min

Lab File: VU036391.D

Acq: 02 Jan 2020 14:50

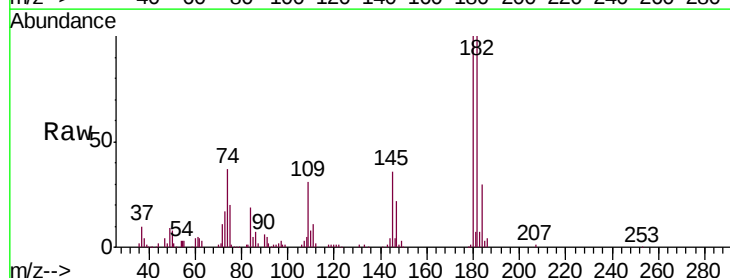
Tgt Ion:180 Resp: 88152

Ion Ratio Lower Upper

180 100

182 96.7 75.0 112.4

145 36.3 28.2 42.4



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

