

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112219\
 Data File : VU035823.D
 Acq On : 22 Nov 2019 16:53
 Operator : JC/SP
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 23 00:17:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR112119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Nov 23 00:14:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	257352	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	289481	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	140131	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	134001	3.99	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.80%
7) Chloroethane-d5	1.93	69	122939	4.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.40%
11) 1,1-Dichloroethene-d2	2.59	63	245106	3.92	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.40%
20) 2-Butanone-d5	4.68	46	363944	46.78	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.56%
24) Chloroform-d	5.11	84	258314	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
26) 1,2-Dichloroethane-d4	5.75	65	140635	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.00%
32) Benzene-d6	5.77	84	481033	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.20%
36) 1,2-Dichloropropane-d6	6.73	67	161816	4.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.00%
41) Toluene-d8	7.93	98	447104	4.39	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.80%
43) trans-1,3-Dichloropropene-	8.21	79	63868	4.41	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.20%
46) 2-Hexanone-d5	8.67	63	270685	46.51	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.02%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	135480	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	127456	4.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	173855	4.986	ug/L	100
3) Chloromethane	1.54	50	217489	5.066	ug/L	100
5) Vinyl chloride	1.62	62	214306	4.987	ug/L	99
6) Bromomethane	1.87	94	103450	4.684	ug/L	97
8) Chloroethane	1.95	64	126231	5.077	ug/L	98
9) Trichlorofluoromethane	2.16	101	251124	5.032	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	138557	4.888	ug/L	95
12) 1,1-Dichloroethene	2.61	96	124361	4.644	ug/L	92
13) Acetone	2.66	43	272496	39.879	ug/L	99
14) Carbon disulfide	2.82	76	413943	4.654	ug/L	100
15) Methyl Acetate	2.99	43	68611	5.008	ug/L	98
16) Methylene chloride	3.08	84	159035	4.916	ug/L	98
17) Methyl tert-butyl Ether	3.42	73	313263	4.835	ug/L	100
18) trans-1,2-Dichloroethene	3.39	96	133153	5.050	ug/L	99
19) 1,1-Dichloroethane	3.92	63	296638	5.007	ug/L	97
21) 2-Butanone	4.76	43	441519	51.063	ug/L	100
22) cis-1,2-Dichloroethene	4.72	96	146560	4.988	ug/L	94

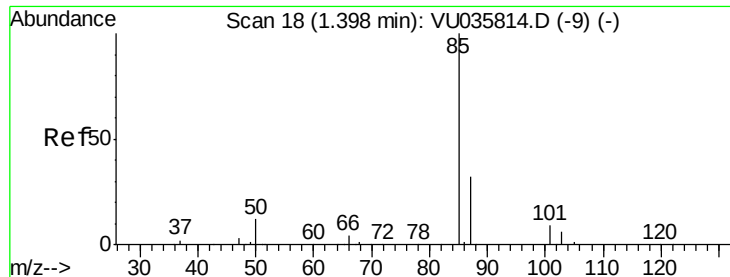
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U112219\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Nov 23 00:14:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	65886	5.147	ug/L	94
25) Chloroform	5.13	83	315022	5.464	ug/L	97
27) 1,2-Dichloroethane	5.84	62	190290	5.019	ug/L	100
29) 1,1,1-Trichloroethane	5.36	97	233768	5.001	ug/L	100
30) Cyclohexane	5.43	56	227175	4.973	ug/L	98
31) Carbon tetrachloride	5.57	117	198807	4.911	ug/L	99
33) Benzene	5.82	78	618017	5.114	ug/L	100
34) Trichloroethene	6.58	95	146482	4.944	ug/L	99
35) Methylcyclohexane	6.80	83	208801	4.802	ug/L	98
37) 1,2-Dichloropropane	6.83	63	172587	5.036	ug/L	100
38) Bromodichloromethane	7.14	83	206855	5.036	ug/L	100
39) cis-1,3-Dichloropropene	7.64	75	214727	4.840	ug/L	99
40) 4-Methyl-2-pentanone	7.83	43	1044872	49.660	ug/L	98
42) Toluene	8.00	91	657538	5.231	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	189048	5.139	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	110515	4.949	ug/L	99
47) Tetrachloroethene	8.58	164	108623	4.818	ug/L	98
48) 2-Hexanone	8.73	43	761847	49.182	ug/L	96
49) Dibromochloromethane	8.84	129	129998	4.934	ug/L	99
50) 1,2-Dibromoethane	8.96	107	99622	4.875	ug/L	96
51) Chlorobenzene	9.48	112	377855	4.853	ug/L	97
52) Ethylbenzene	9.60	91	636412	4.896	ug/L	99
53) m,p-Xylene	9.72	106	236690	5.165	ug/L	96
54) o-Xylene	10.13	106	222559	5.001	ug/L	95
55) Styrene	10.14	104	379483	5.141	ug/L	99
56) Isopropylbenzene	10.51	105	591188	5.029	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	148018	4.790	ug/L	99
59) 1,2,3-Trichloropropane	10.85	75	104167	4.675	ug/L	99
61) Bromoform	10.32	173	70076	4.977	ug/L	96
62) 1,3-Dichlorobenzene	11.77	146	247131	4.914	ug/L	96
63) 1,4-Dichlorobenzene	11.86	146	237161	4.790	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	232028	4.835	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	15423	3.884	ug/L	97
67) 1,3,5-Trichlorobenzene	13.24	180	125937	4.167	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	52406	3.017	ug/L	99
69) Naphthalene	14.11	128	56998	2.330	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	51906	3.073	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.986 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

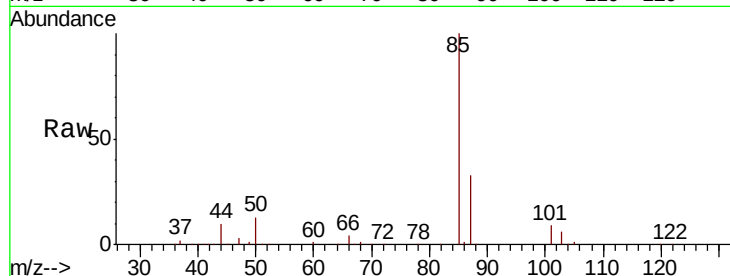
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 173855

Ion Ratio Lower Upper

85 100

87 32.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU035814.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU035814.D (-9) (-)

1.39

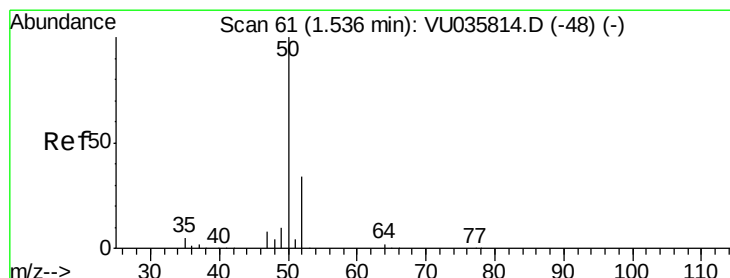
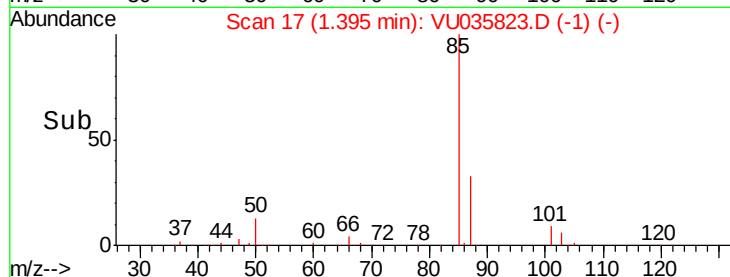
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 5.066 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035823.D

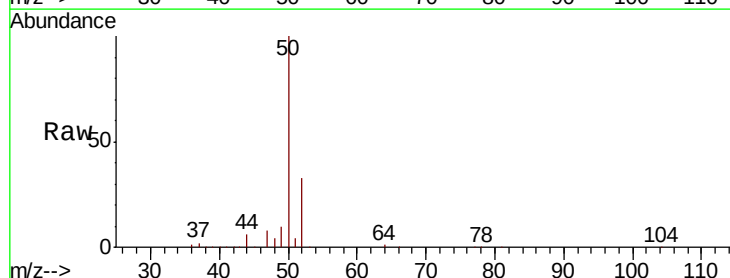
Acq: 22 Nov 2019 16:53

Tgt Ion: 50 Resp: 217489

Ion Ratio Lower Upper

50 100

52 32.7 22.7 42.3



Abundance Ion 50.05 (49.75 to 50.75): VU035814.D (-48) (-)

Ion 52.05 (51.75 to 52.75): VU035814.D (-48) (-)

1.54

250000

200000

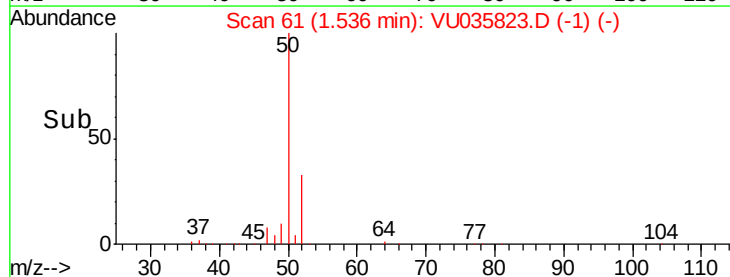
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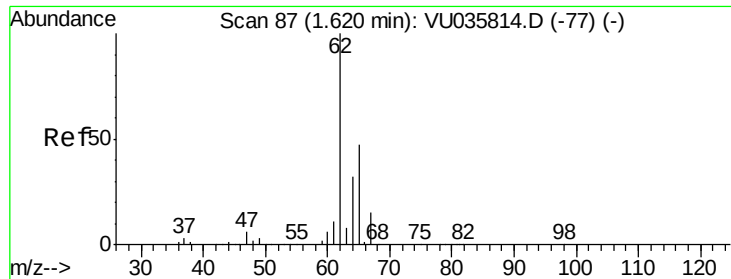
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.987 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :

MSVOA_U

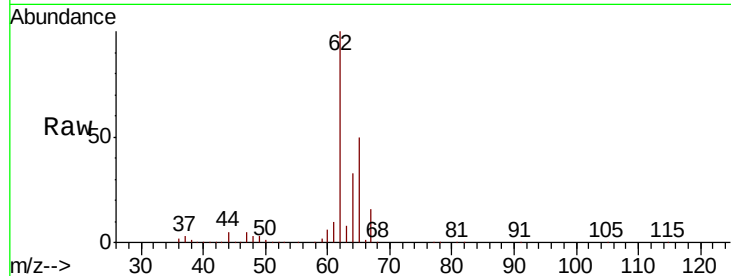
ClientSampleId :

Tot Ion: 62 Resp: 214306

Ion Ratio Lower Upper

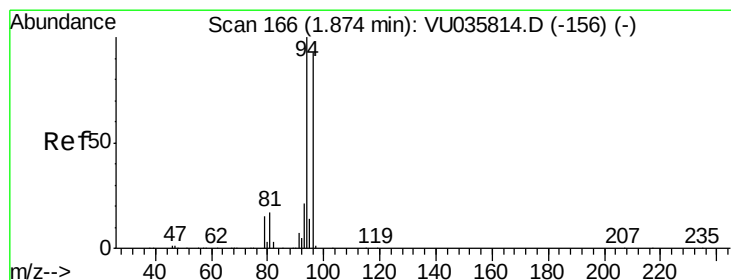
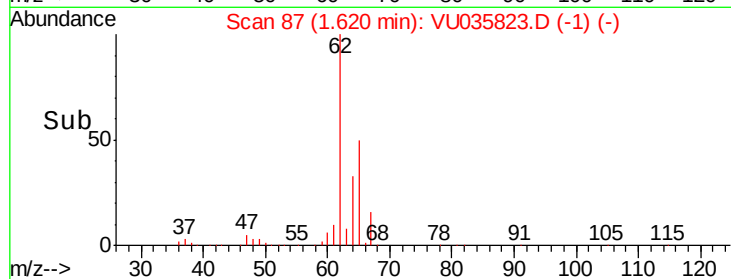
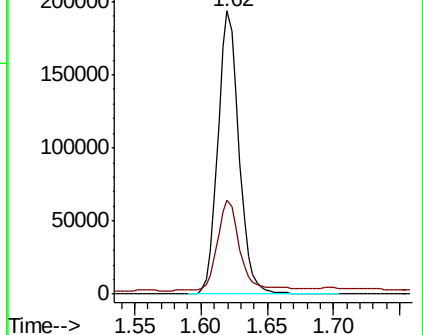
62 100

64 33.0 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU035823.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VU035823.D (-1) (-)



#6

Bromomethane

Concen: 4.684 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU035823.D

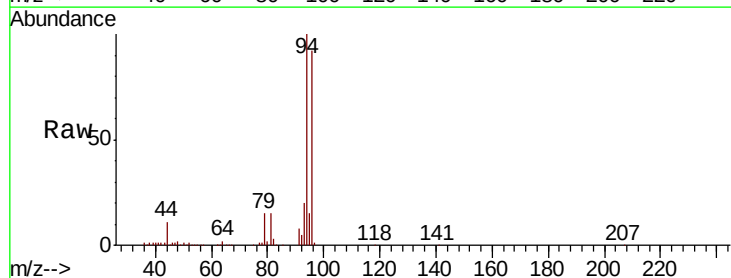
Acq: 22 Nov 2019 16:53

Tgt Ion: 94 Resp: 103450

Ion Ratio Lower Upper

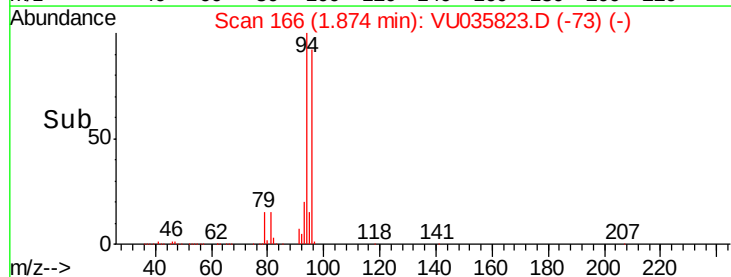
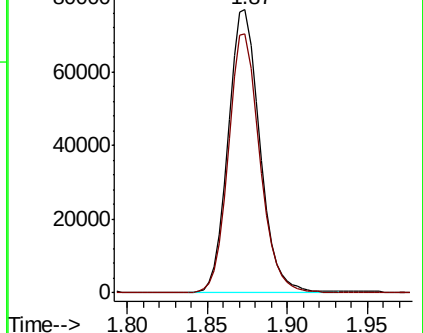
94 100

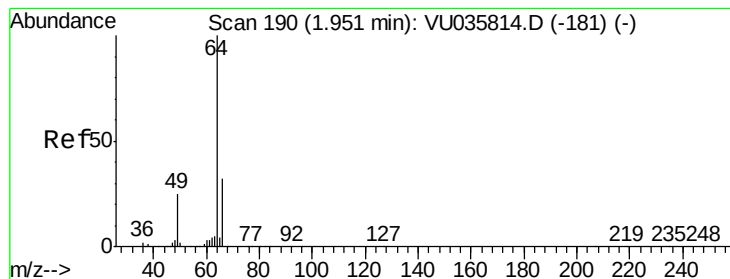
96 91.6 66.5 123.5



Abundance Ion 94.00 (93.70 to 94.70): VU035823.D (-73) (-)

Ion 96.00 (95.70 to 96.70): VU035823.D (-73) (-)





#8

Chloroethane

Concen: 5.077 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :

MSVOA_U

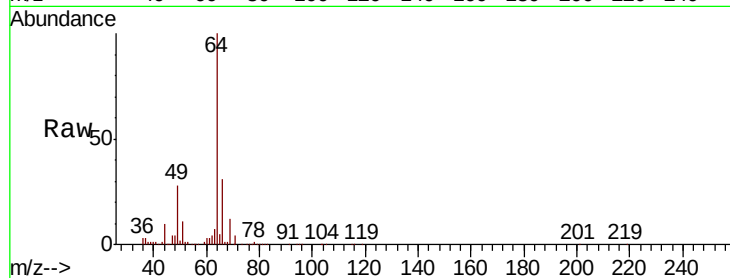
ClientSampleId :

Tot Ion: 64 Resp: 126231

Ion Ratio Lower Upper

64 100

66 30.5 22.3 41.5



Abundance Ion 64.10 (63.80 to 64.80): VU035814.D (-181) (-)

Ion 66.05 (65.75 to 66.75): VU035814.D (-181) (-)

1.95

100000

80000

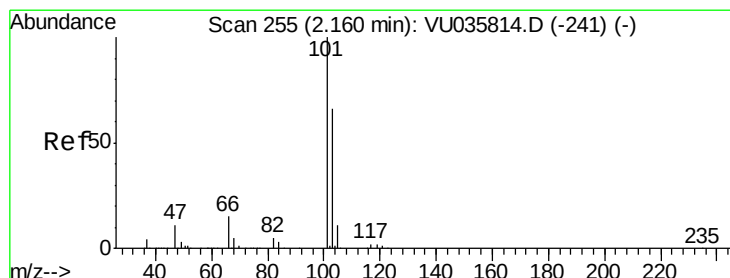
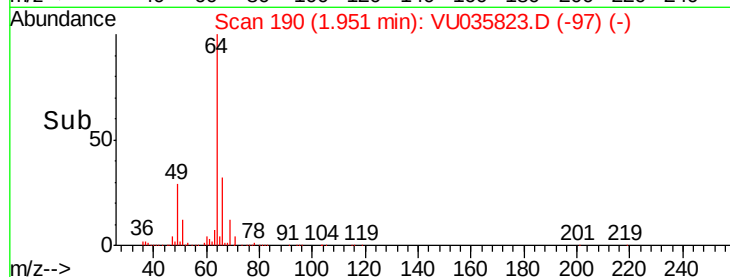
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 5.032 ug/L

RT: 2.16 min Scan# 255

Delta R.T. -0.00 min

Lab File: VU035823.D

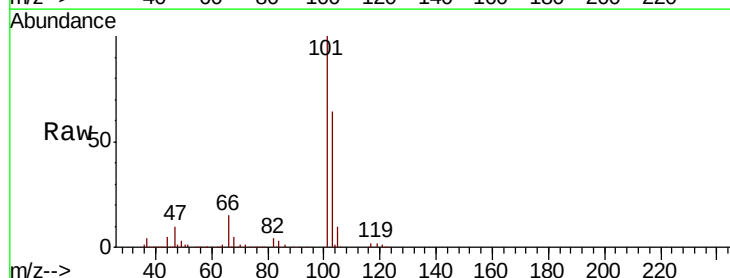
Acq: 22 Nov 2019 16:53

Tgt Ion: 101 Resp: 251124

Ion Ratio Lower Upper

101 100

103 64.0 49.8 74.6



Abundance Ion 101.00 (100.70 to 101.70): VU035814.D (-241) (-)

Ion 103.00 (102.70 to 103.70): VU035814.D (-241) (-)

2.16

200000

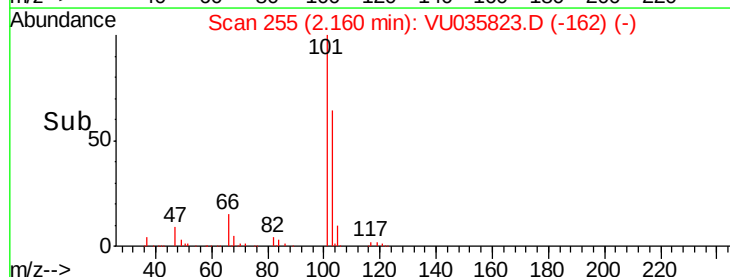
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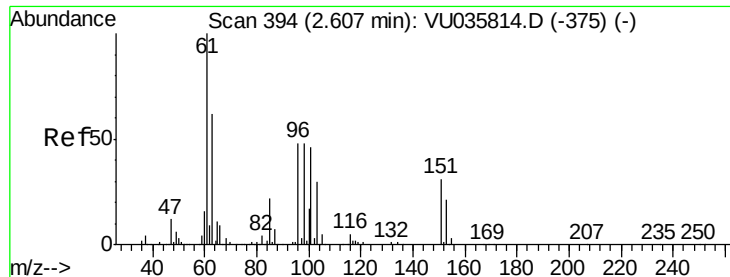
100000

50000

0

Time-->





#10

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

Concen: 4.888 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :

MSVOA_U

ClientSampled :

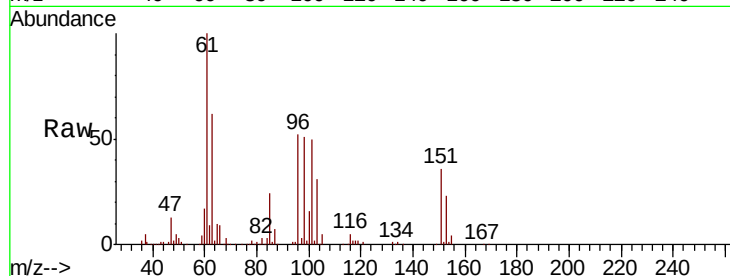
Tot Ion:101 Resp: 138557

Ion Ratio Lower Upper

101 100

85 45.5 38.1 57.1

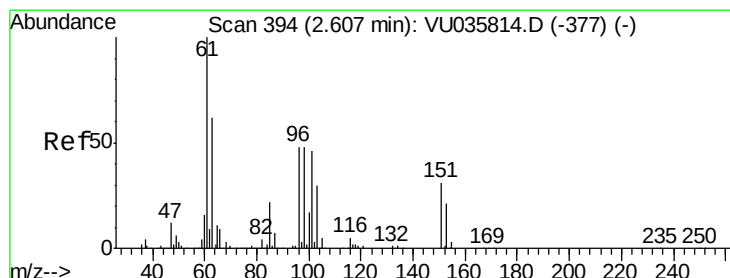
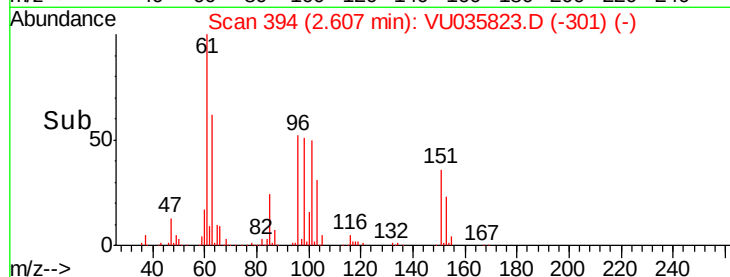
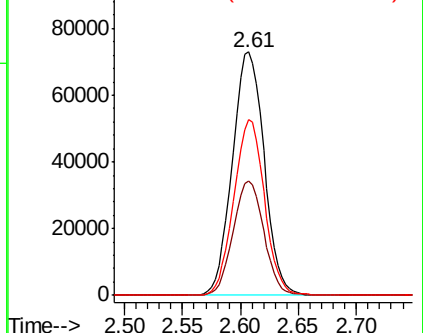
151 69.6 52.0 78.0



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: 4.644 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

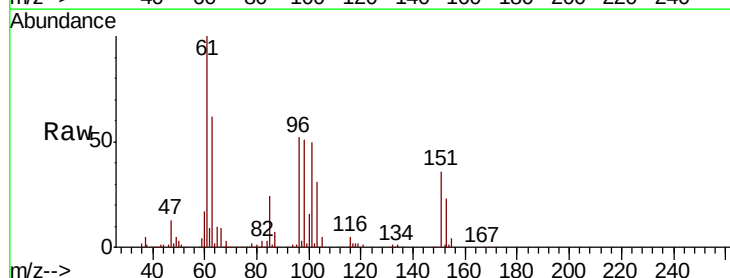
Tgt Ion: 96 Resp: 124361

Ion Ratio Lower Upper

96 100

61 192.0 139.3 258.7

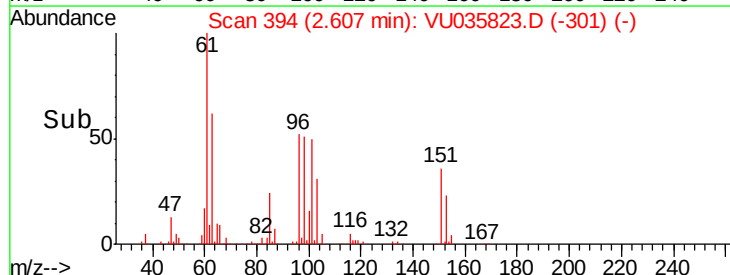
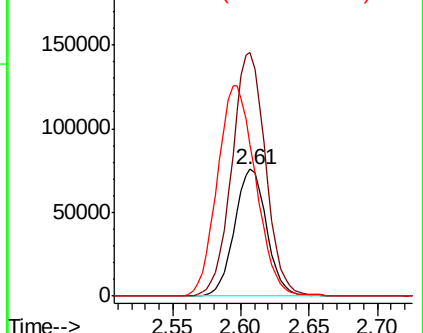
63 119.1 93.7 174.1

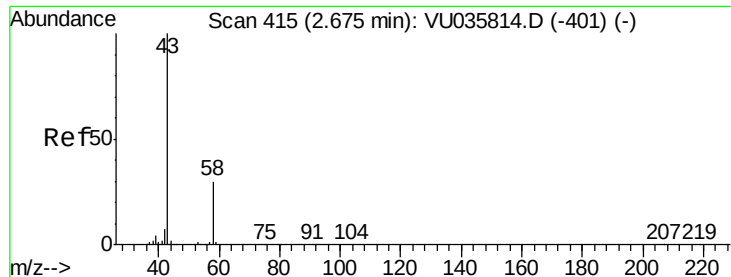


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 39.879 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.01 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

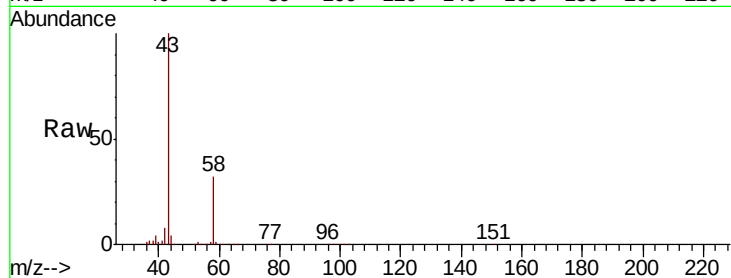
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 272496

Ion Ratio Lower Upper

43 100

58 31.0 0.0 61.2



Abundance Ion 43.05 (42.75 to 43.75): VU035814.D (-401) (-)

Ion 58.05 (57.75 to 58.75): VU035814.D (-401) (-)

2.66

150000

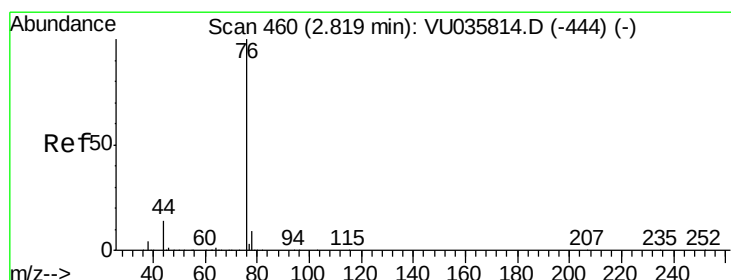
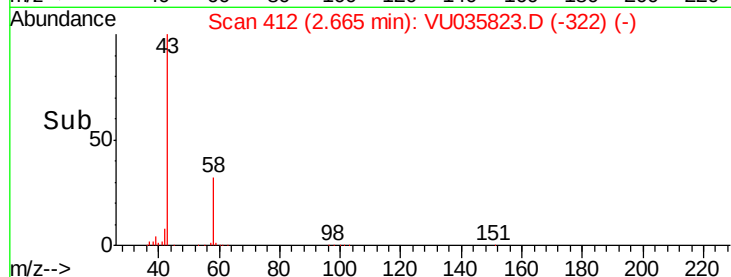
100000

50000

0

2.60 2.70 2.80

Time-->



#14

Carbon disulfide

Concen: 4.654 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU035823.D

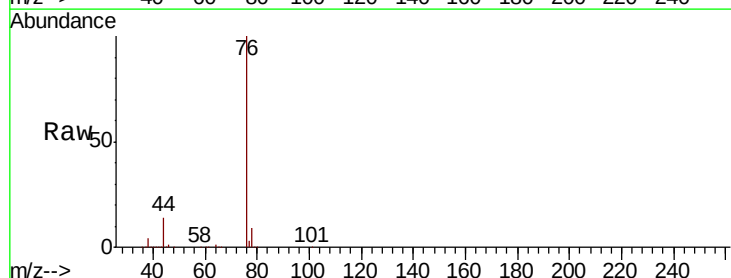
Acq: 22 Nov 2019 16:53

Tgt Ion: 76 Resp: 413943

Ion Ratio Lower Upper

76 100

78 9.0 7.3 10.9



Abundance Ion 76.05 (75.75 to 76.75): VU035814.D (-444) (-)

Ion 78.00 (77.70 to 78.70): VU035814.D (-444) (-)

2.82

250000

200000

150000

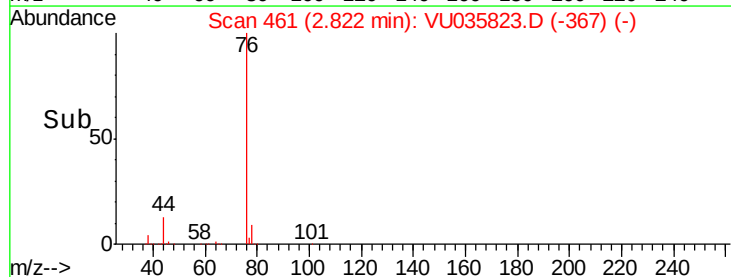
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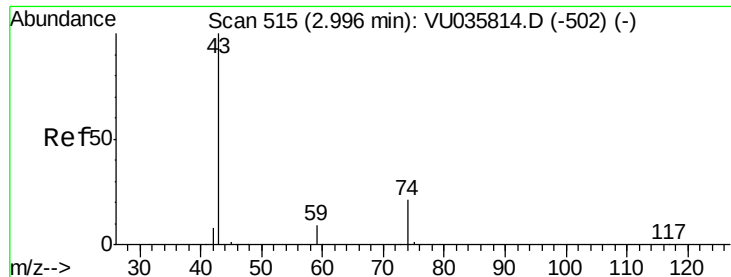
50000

0

2.75 2.80 2.85 2.90

Time-->

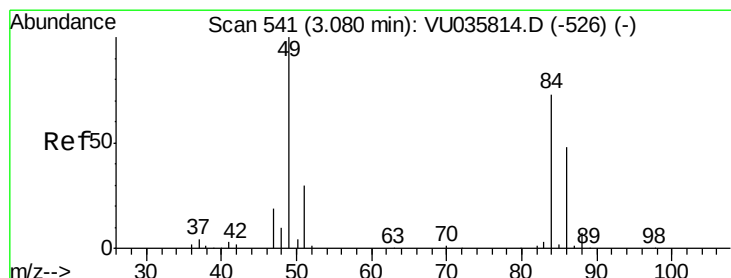
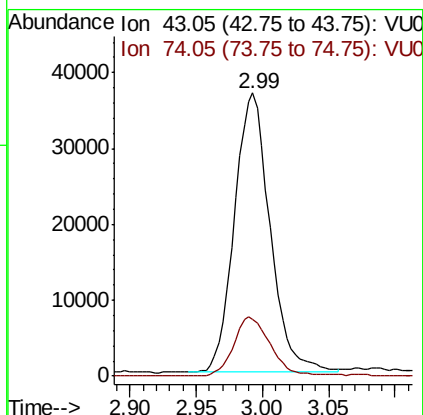
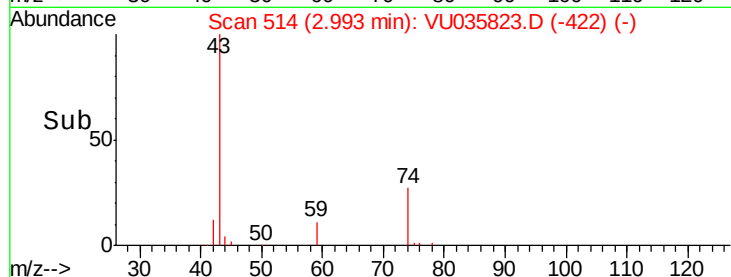
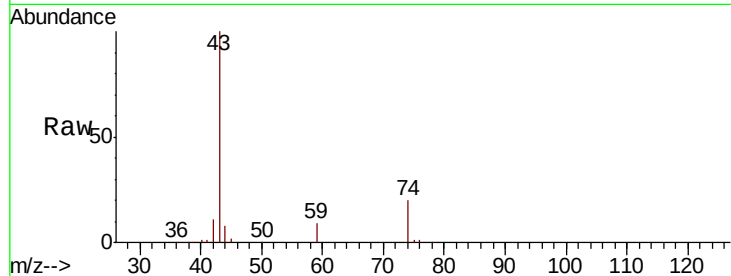




#15
Methvl Acetate
Concen: 5.008 ug/L
RT: 2.99 min Scan# 514
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

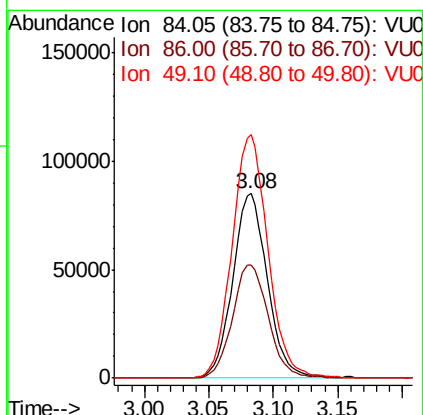
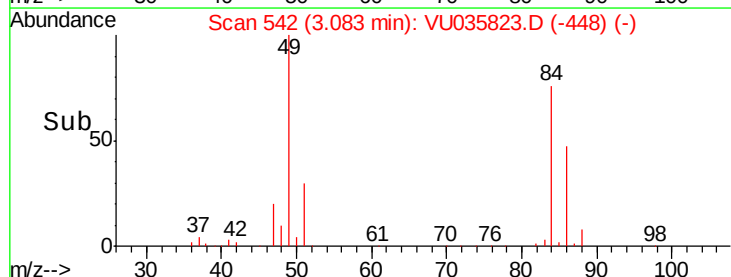
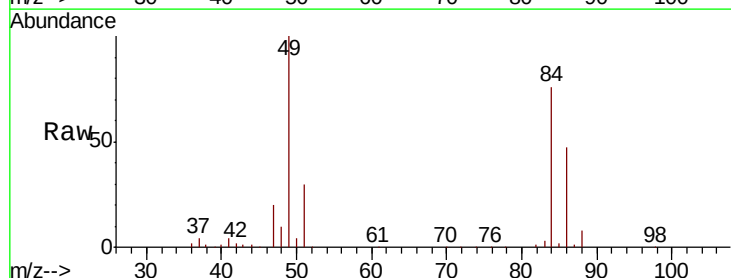
Instrument :
MSVOA_U
ClientSampleId :

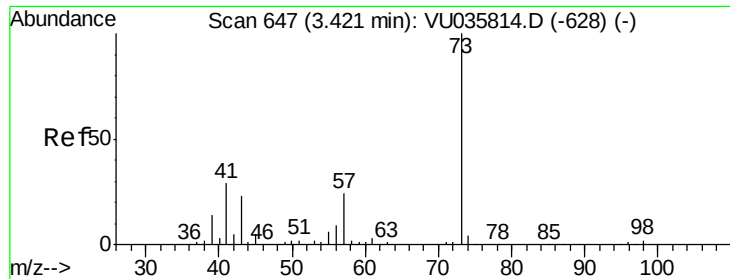
Tot Ion: 43 Resp: 68611
Ion Ratio Lower Upper
43 100
74 21.7 18.2 27.4



#16
Methylene chloride
Concen: 4.916 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

Tgt Ion: 84 Resp: 159035
Ion Ratio Lower Upper
84 100
86 61.4 44.4 82.5
49 131.8 94.0 174.6



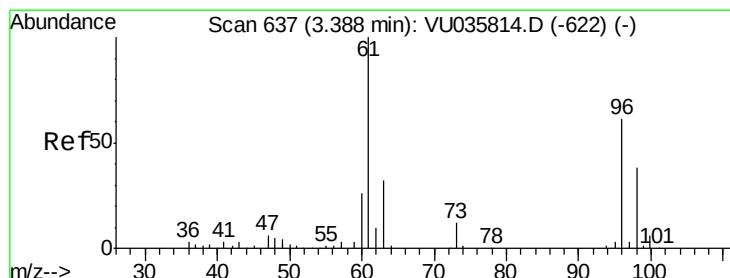
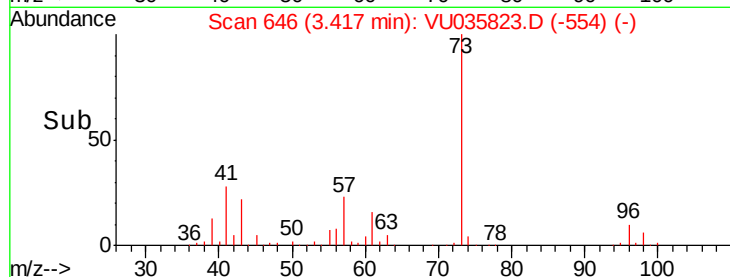
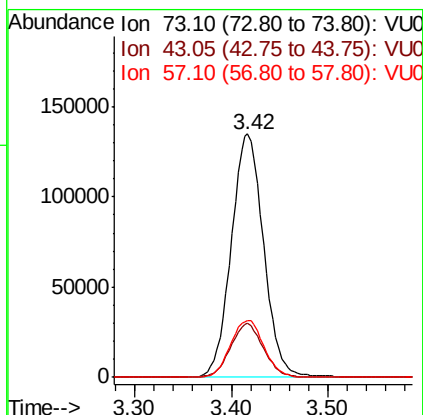
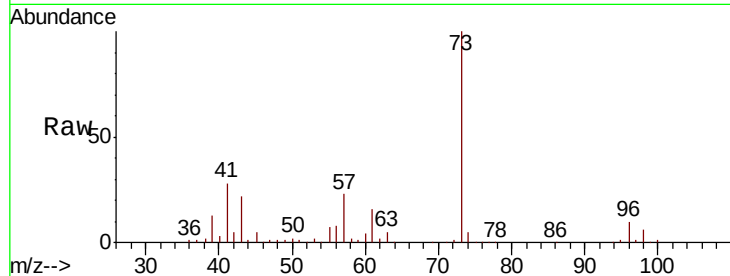


#17

Methyl tert-butyl Ether
 Concen: 4.835 ug/L
 RT: 3.42 min Scan# 646
 Delta R.T. -0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Instrument :
 MSVOA_U
 ClientSampleId :

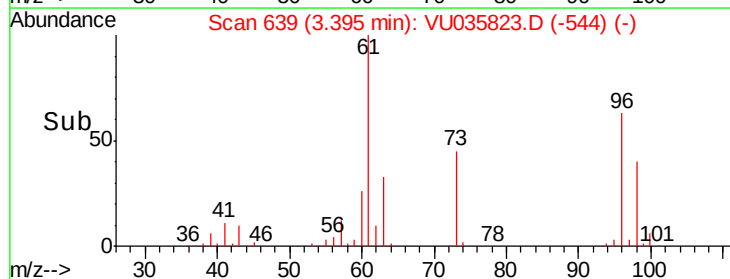
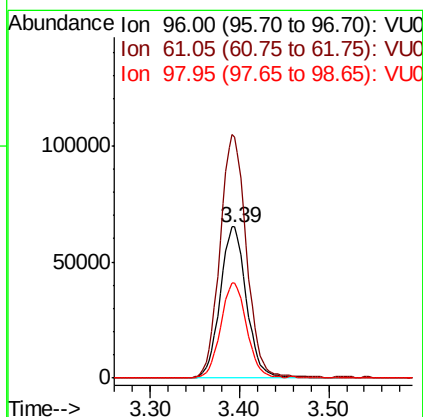
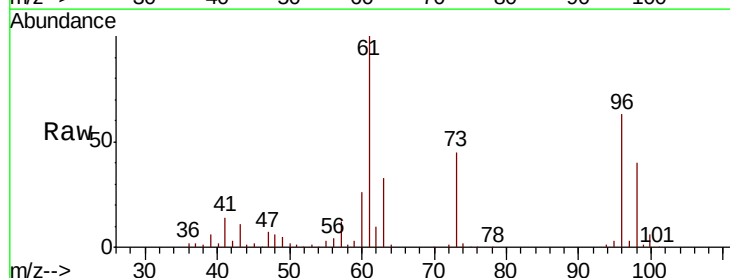
Tot Ion:	73	Resp:	313263
Ion	Ratio	Lower	Upper
73	100		
43	22.1	17.4	26.2
57	24.3	19.4	29.0

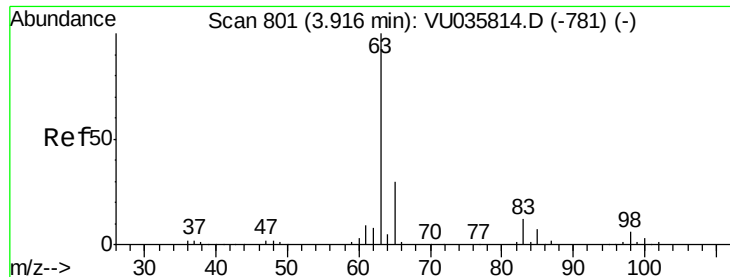


#18

trans-1,2-Dichloroethene
 Concen: 5.050 ug/L
 RT: 3.39 min Scan# 639
 Delta R.T. 0.01 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Tgt Ion:	96	Resp:	133153
Ion	Ratio	Lower	Upper
96	100		
61	159.3	111.1	206.3
98	63.1	43.1	80.1

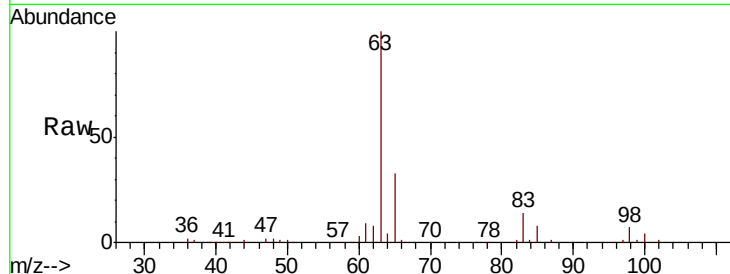




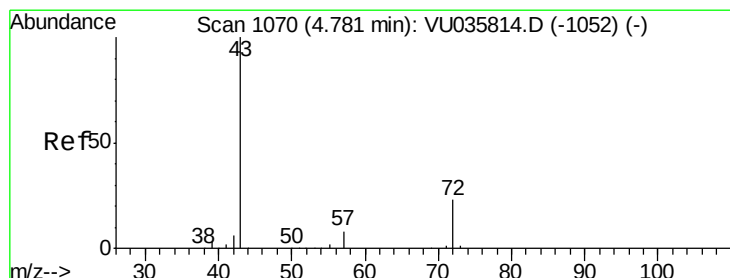
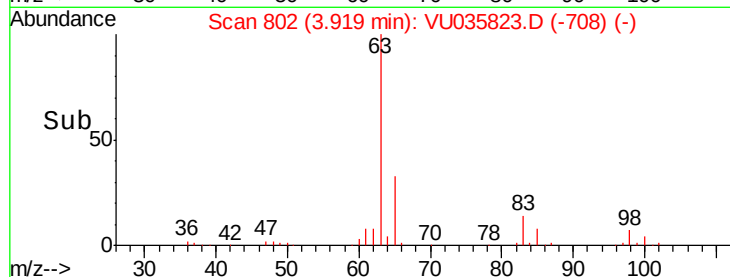
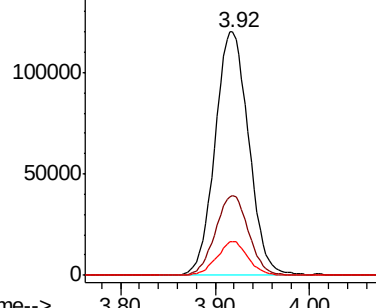
#19
 1,1-Dichloroethane
 Concen: 5.007 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 63 Resp: 296638
 Ion Ratio Lower Upper
 63 100
 65 32.7 21.8 40.4
 83 13.9 8.6 16.0

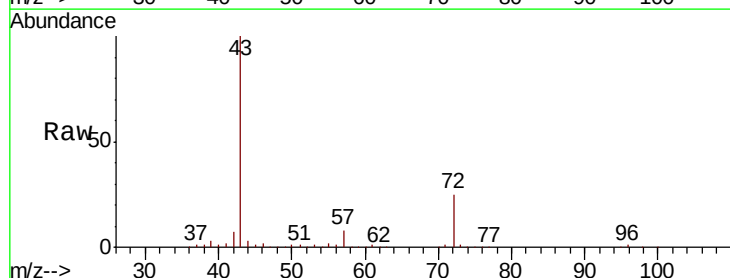


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

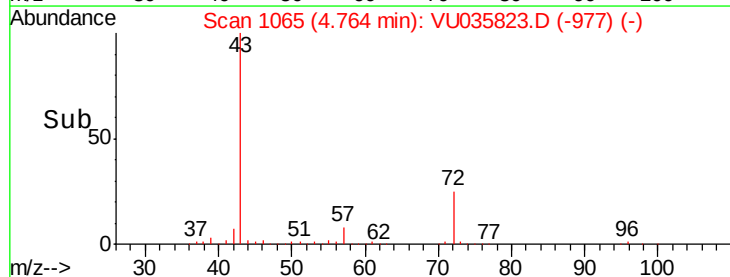
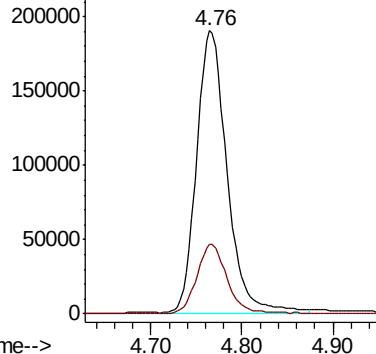


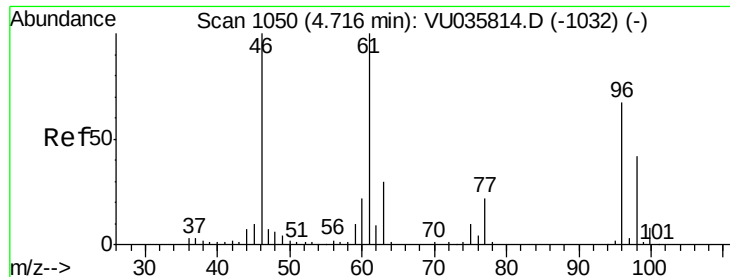
#21
 2-Butanone
 Concen: 51.063 ug/L
 RT: 4.76 min Scan# 1065
 Delta R.T. -0.02 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Tgt Ion: 43 Resp: 441519
 Ion Ratio Lower Upper
 43 100
 72 24.9 12.4 37.4



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.988 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :
MSVOA_U
ClientSampleId :

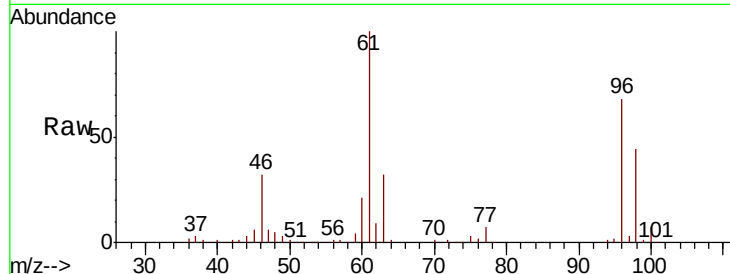
Tot Ion: 96 Resp: 146560

Ion Ratio Lower Upper

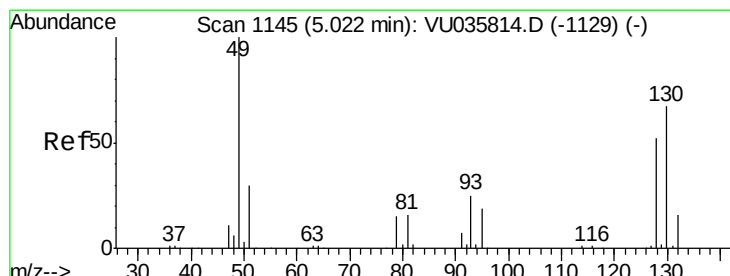
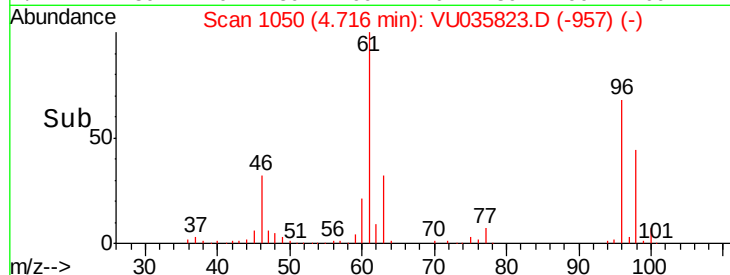
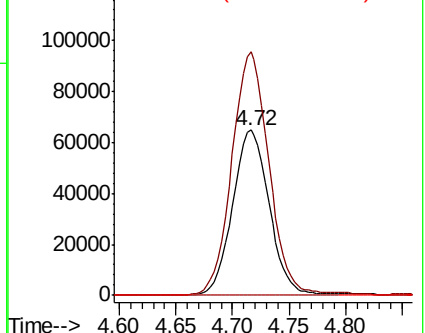
96 100

61 147.4 98.1 182.1

68 0.0 0.0 0.0



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



#23

Bromochloromethane

Concen: 5.147 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Tgt Ion: 128 Resp: 65886

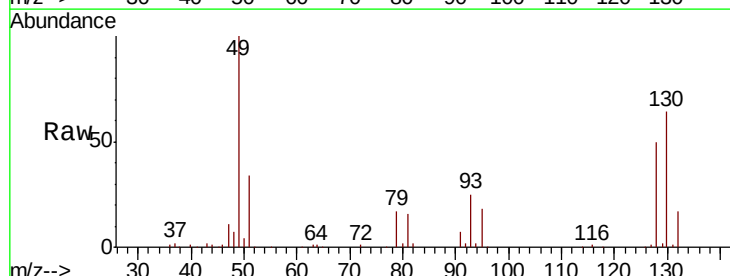
Ion Ratio Lower Upper

128 100

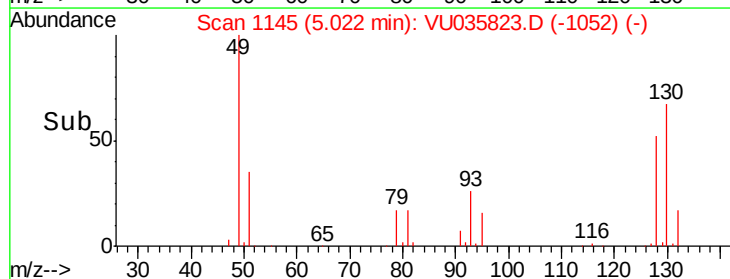
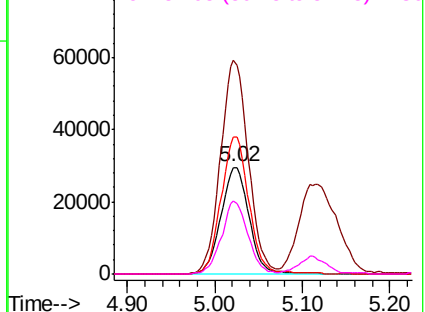
49 200.9 133.8 248.6

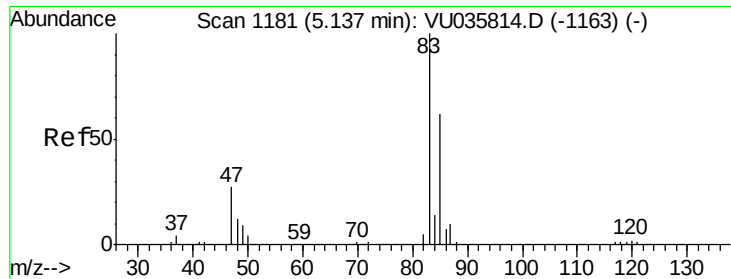
130 129.0 91.1 169.1

51 68.3 46.5 69.7



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

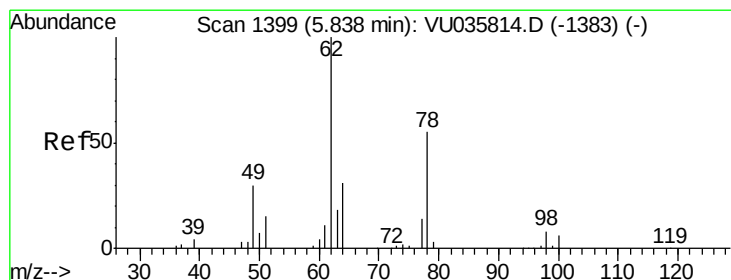
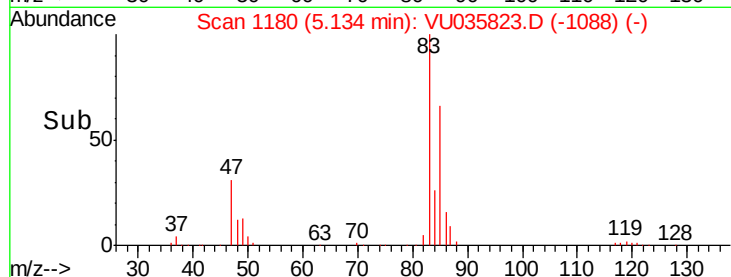
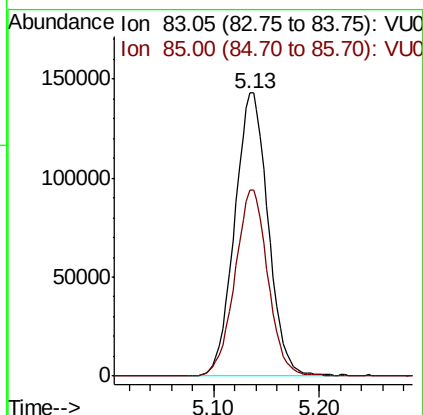
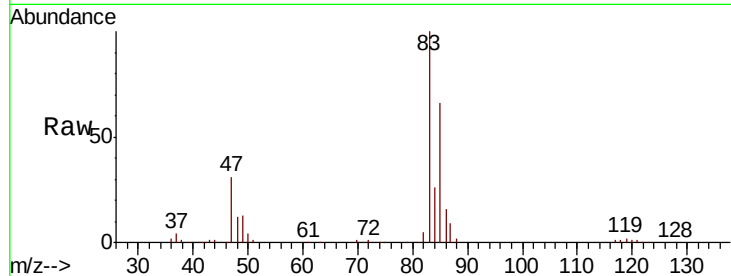




#25
Chloroform
Concen: 5.464 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

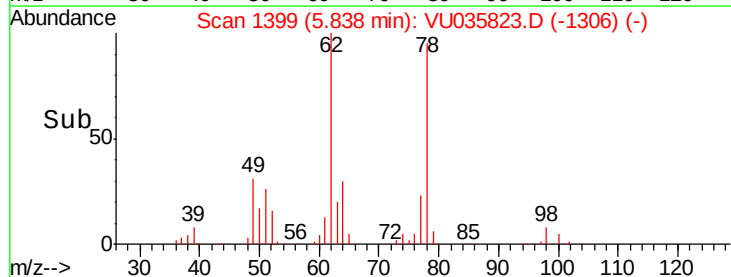
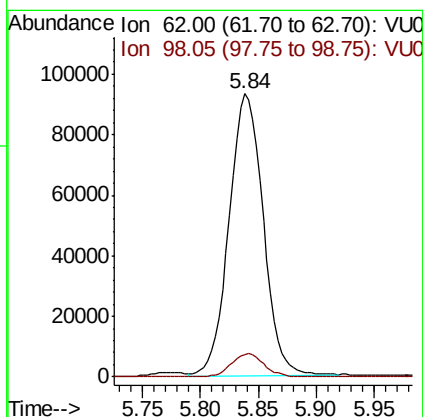
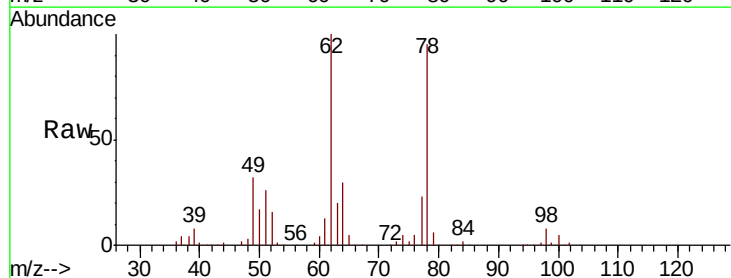
Instrument :
MSVOA_U
ClientSampleId :

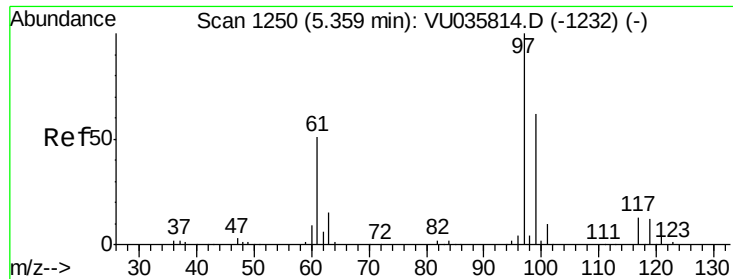
Tot Ion: 83 Resp: 315022
Ion Ratio Lower Upper
83 100
85 65.7 44.6 82.8



#27
1,2-Dichloroethane
Concen: 5.019 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

Tgt Ion: 62 Resp: 190290
Ion Ratio Lower Upper
62 100
98 7.9 6.2 9.4

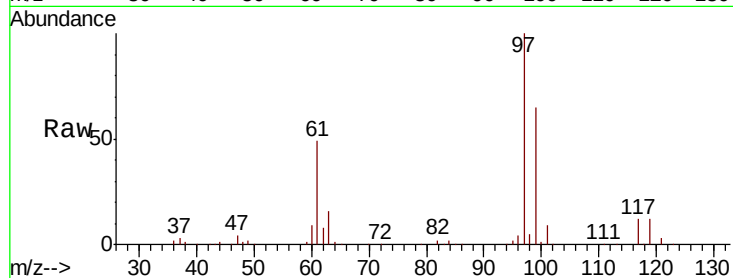




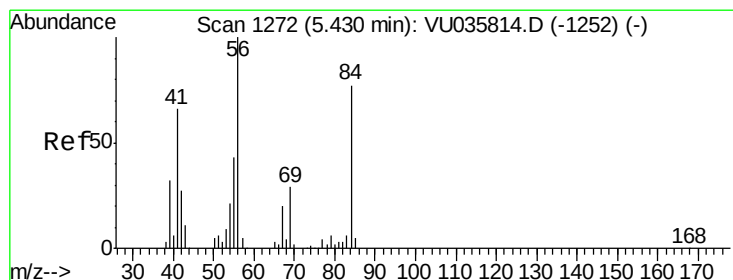
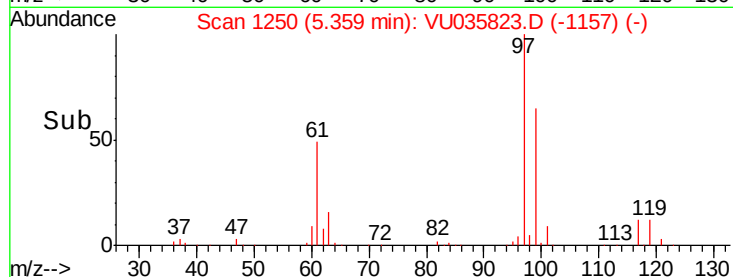
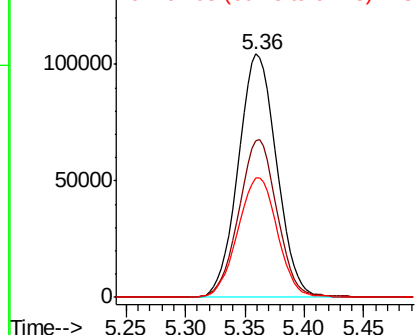
#29
 1,1,1-Trichloroethane
 Concen: 5.001 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. -0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 233768
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.9 77.9
 61 50.3 40.3 60.5

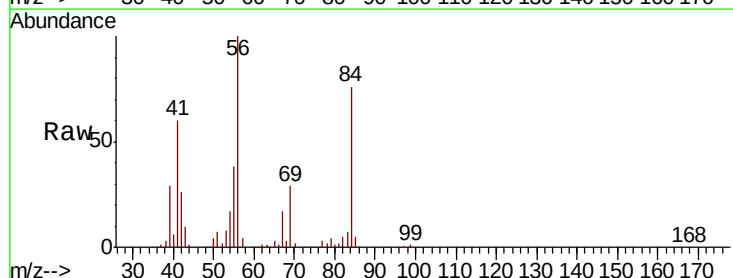


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

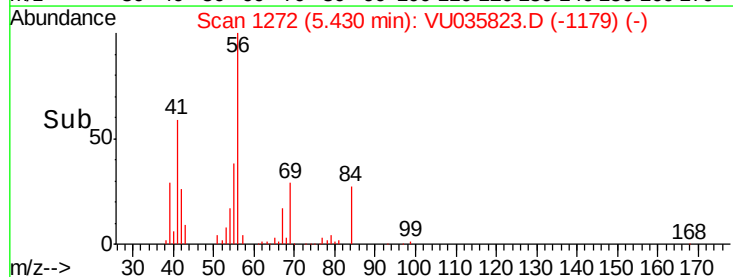
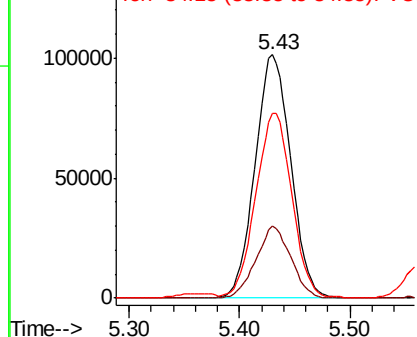


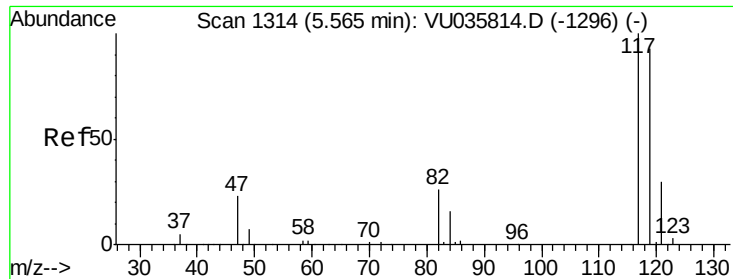
#30
 Cyclohexane
 Concen: 4.973 ug/L
 RT: 5.43 min Scan# 1272
 Delta R.T. -0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Tgt Ion: 56 Resp: 227175
 Ion Ratio Lower Upper
 56 100
 69 28.8 24.0 36.0
 84 75.6 62.1 93.1



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





#31

Carbon tetrachloride

Concen: 4.911 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

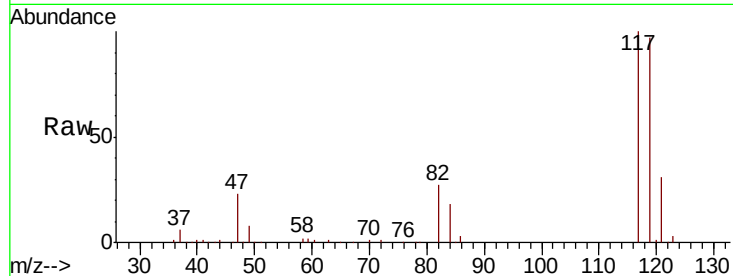
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:117 Resp: 198807

Ion Ratio Lower Upper

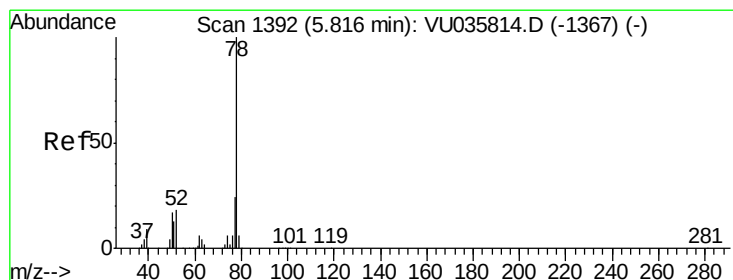
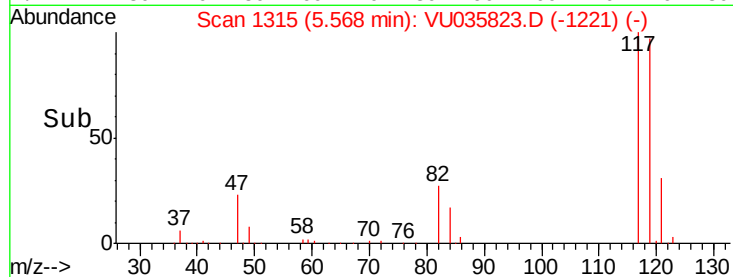
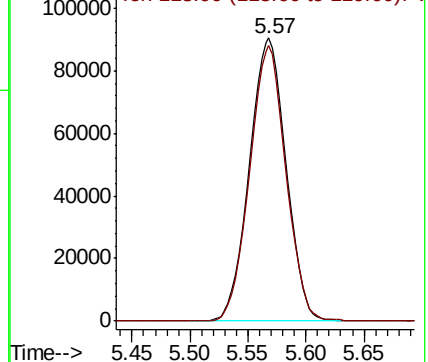
117 100

119 96.1 76.0 114.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.114 ug/L

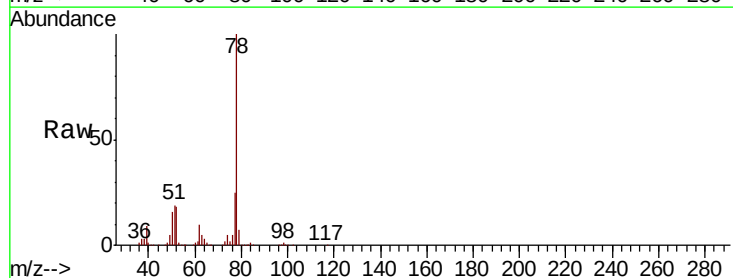
RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

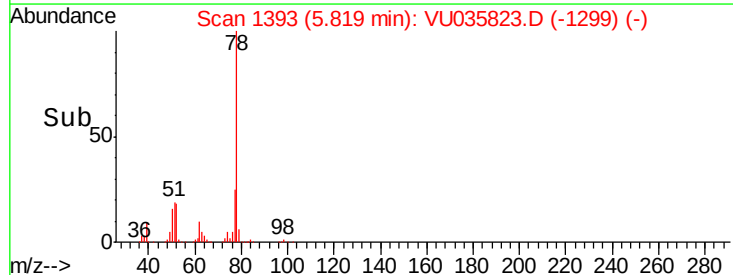
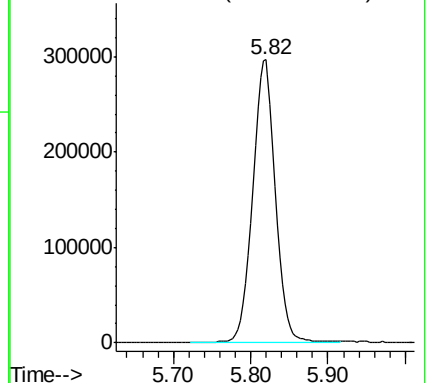
Lab File: VU035823.D

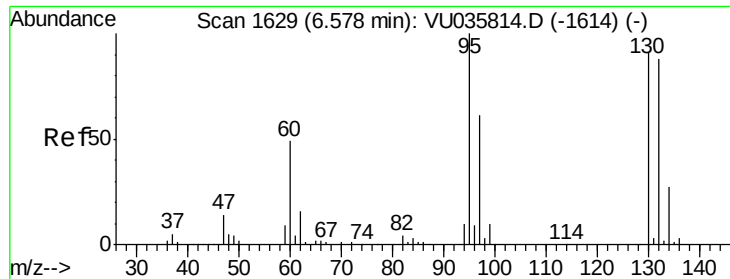
Acq: 22 Nov 2019 16:53

Tgt Ion: 78 Resp: 618017



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.944 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 95 Resp: 146482

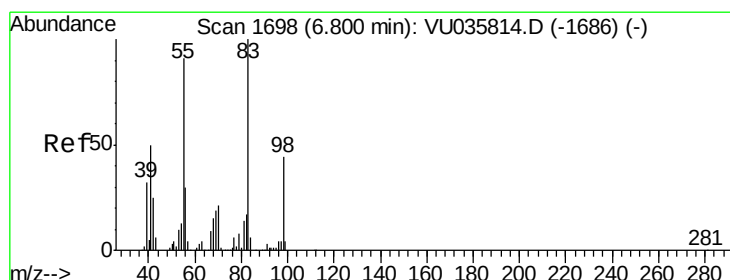
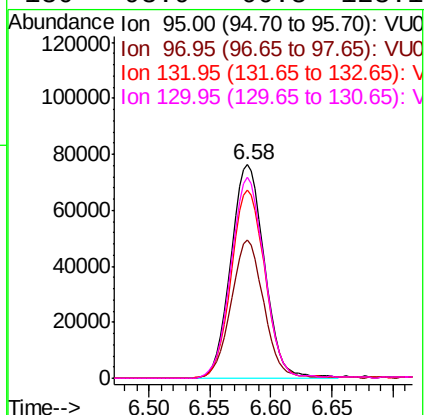
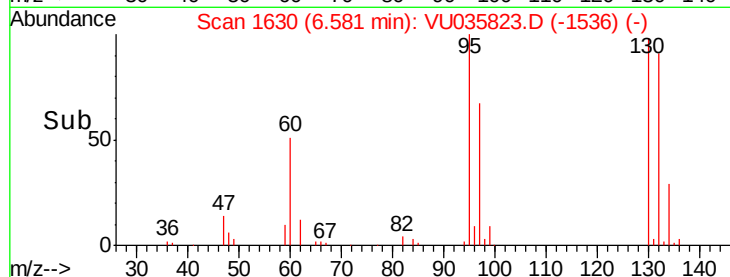
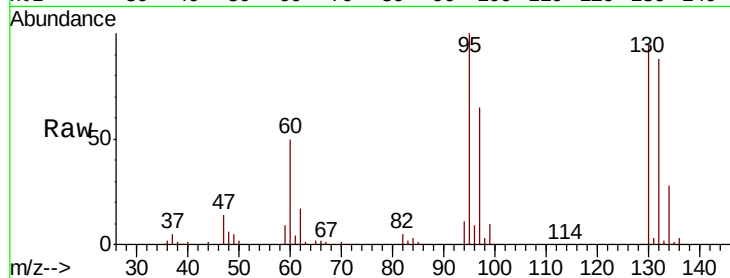
Ion Ratio Lower Upper

95 100

97 64.9 45.1 83.9

132 88.0 61.9 114.9

130 93.9 66.3 123.1



#35

Methylcyclohexane

Concen: 4.802 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

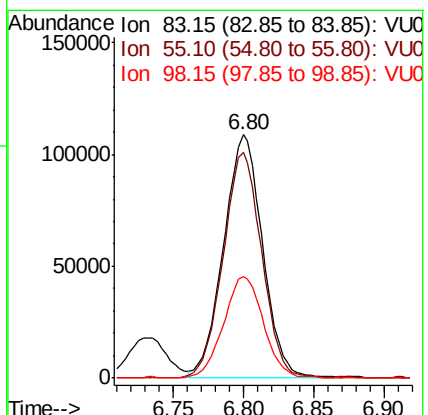
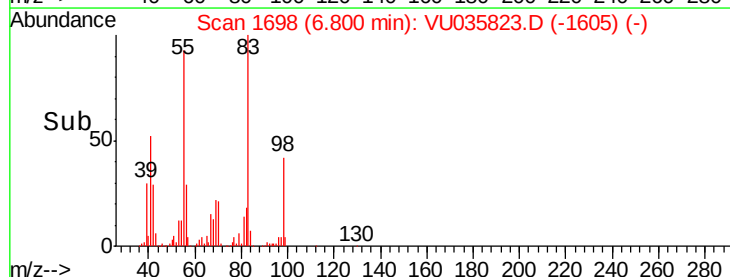
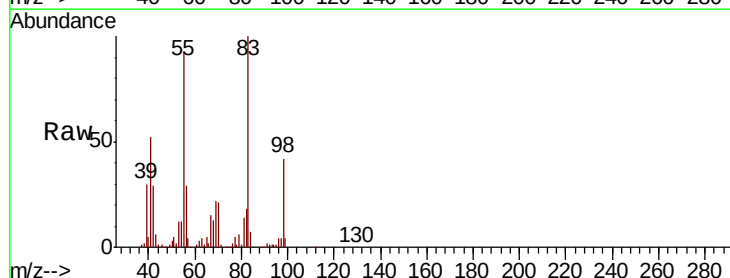
Tgt Ion: 83 Resp: 208801

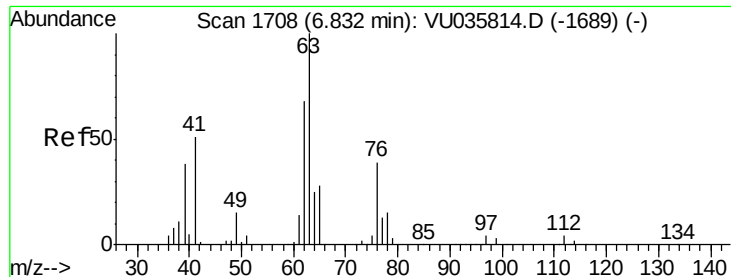
Ion Ratio Lower Upper

83 100

55 92.5 72.7 109.1

98 42.7 36.2 54.4

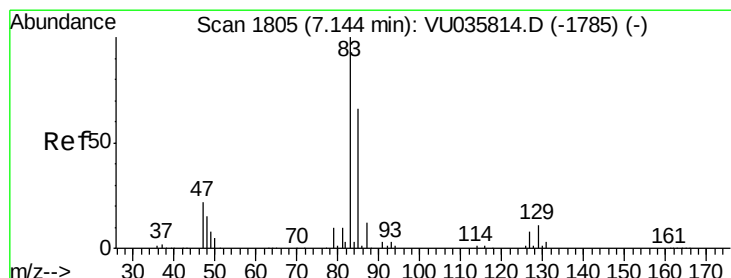
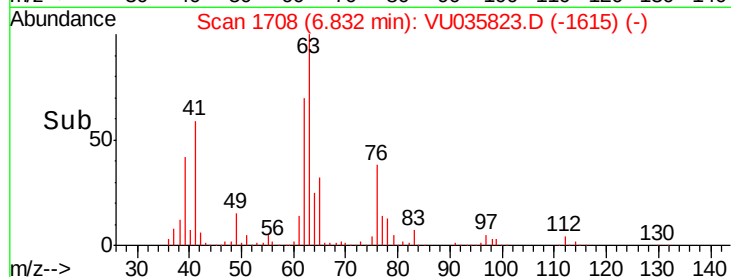
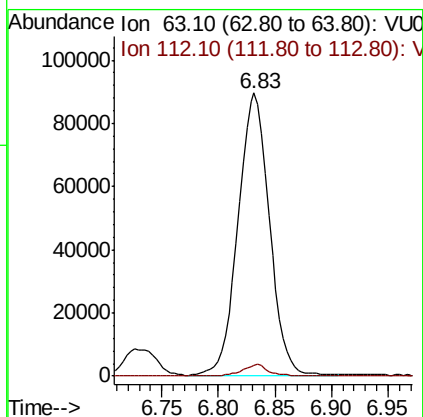
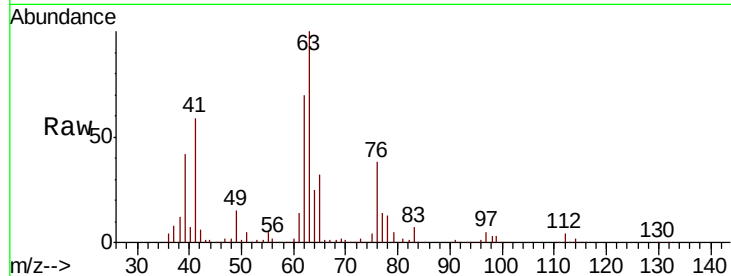




#37
 1,2-Dichloropropane
 Concen: 5.036 ug/L
 RT: 6.83 min Scan# 1708
 Delta R.T. -0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

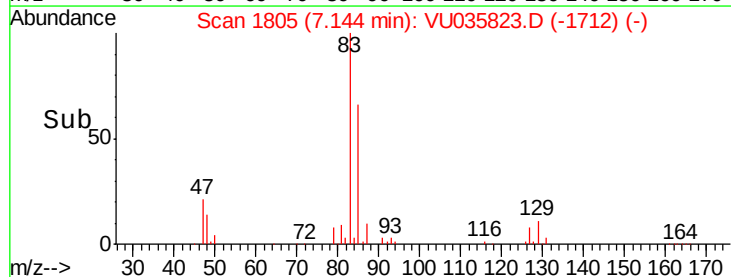
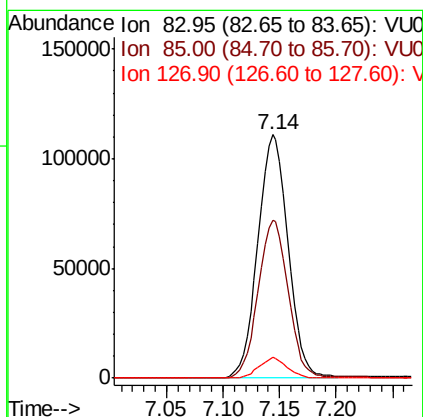
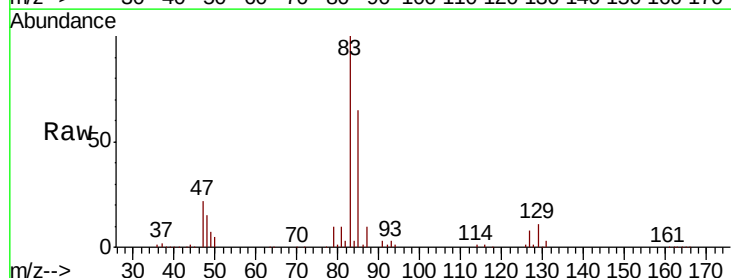
Instrument :
 MSVOA_U
 ClientSampled :

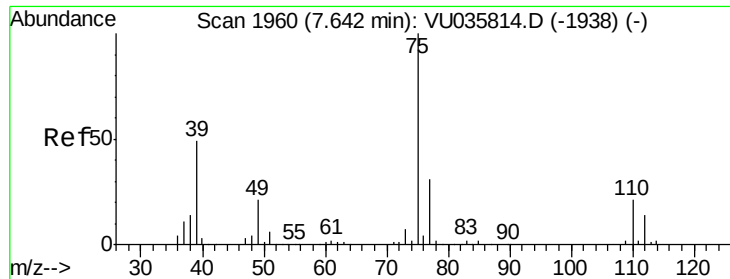
Tot Ion: 63 Resp: 172587
 Ion Ratio Lower Upper
 63 100
 112 3.4 2.7 4.1



#38
 Bromodichloromethane
 Concen: 5.036 ug/L
 RT: 7.14 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Tgt Ion: 83 Resp: 206855
 Ion Ratio Lower Upper
 83 100
 85 65.1 45.6 84.8
 127 8.4 6.0 9.0

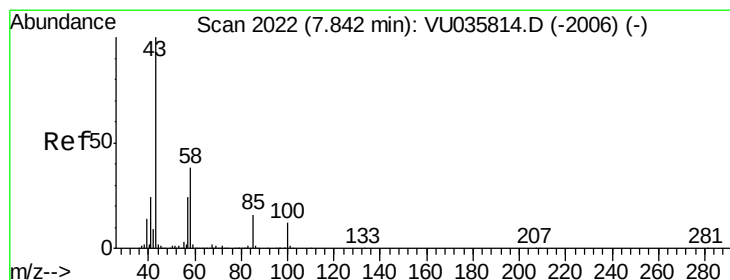
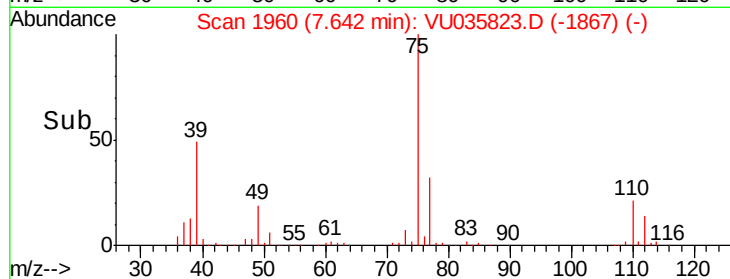
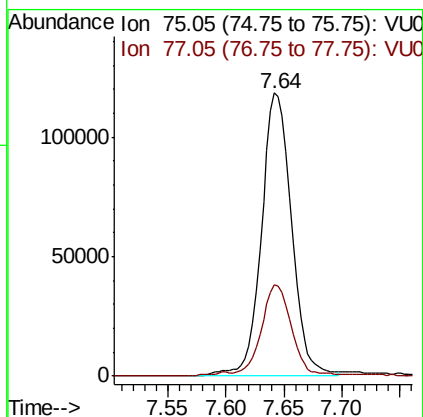
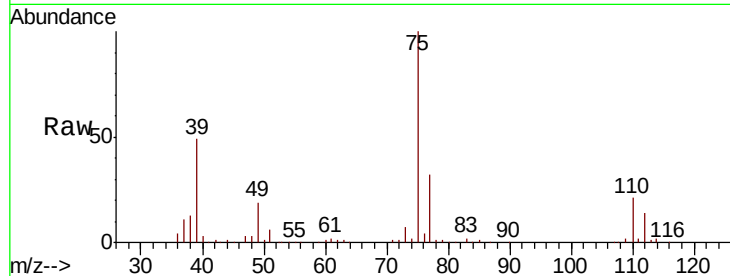




#39
 cis-1,3-Dichloropropene
 Concen: 4.840 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. -0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

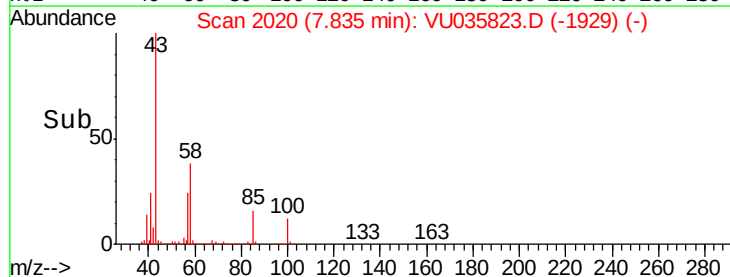
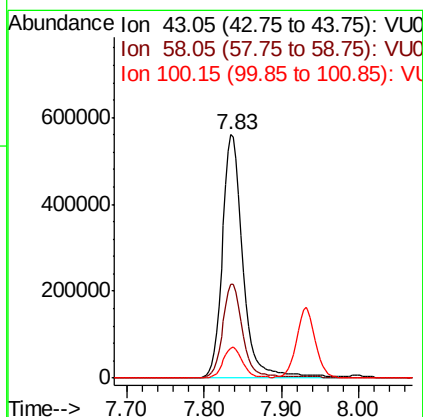
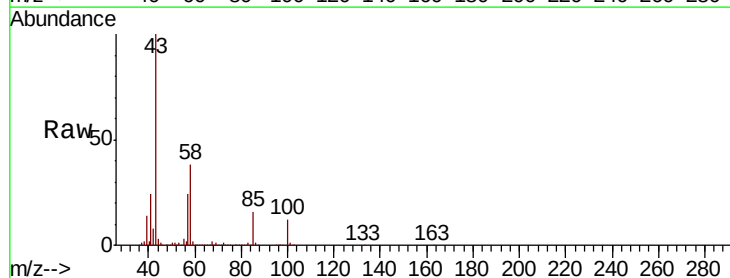
Instrument :
 MSVOA_U
 ClientSampleId :

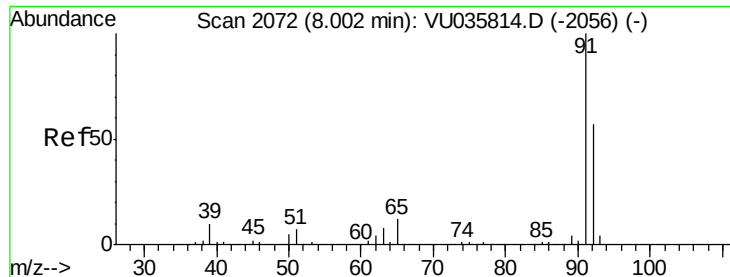
Tot Ion: 75 Resp: 214727
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.1 41.1



#40
 4-Methyl-2-pentanone
 Concen: 49.660 ug/L
 RT: 7.83 min Scan# 2020
 Delta R.T. -0.01 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Tgt Ion: 43 Resp: 1044872
 Ion Ratio Lower Upper
 43 100
 58 37.2 30.8 46.2
 100 12.1 10.0 15.0





#42

Toluene

Concen: 5.231 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :

MSVOA_U

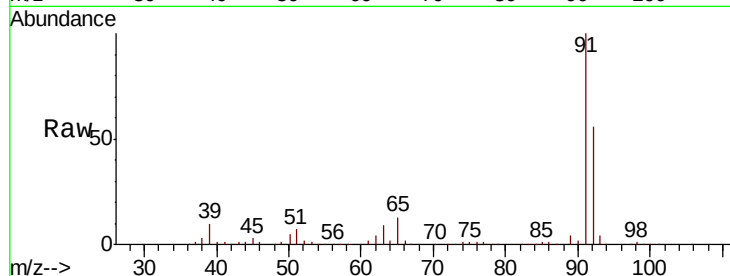
ClientSampled :

Tot Ion: 91 Resp: 657538

Ion Ratio Lower Upper

91 100

92 55.6 40.4 75.0



Abundance Ion 91.15 (90.85 to 91.85): VU035814.D (-2056) (-)

Ion 92.15 (91.85 to 92.85): VU035823.D (-2055) (-)

8.00

400000

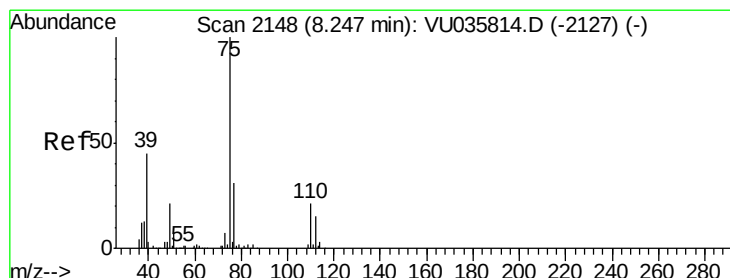
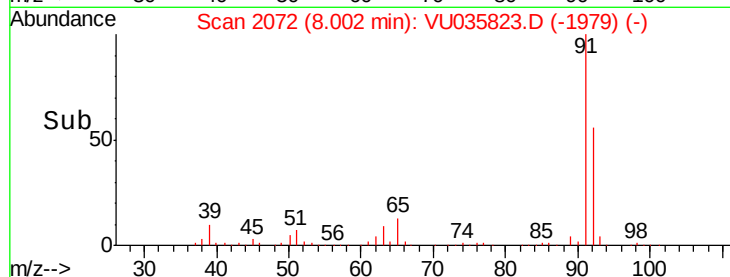
300000

200000

100000

0

Time--> 7.90 8.00 8.10



#44

trans-1,3-Dichloropropene

Concen: 5.139 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU035823.D

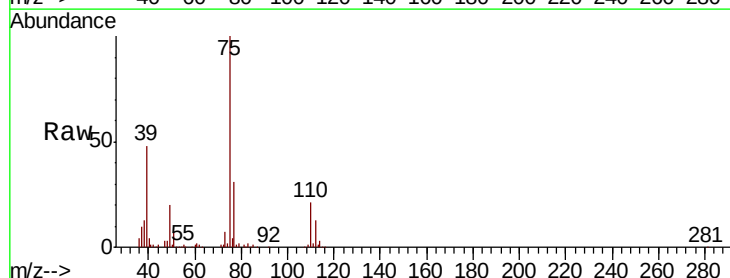
Acq: 22 Nov 2019 16:53

Tgt Ion: 75 Resp: 189048

Ion Ratio Lower Upper

75 100

77 31.0 22.7 42.1



Abundance Ion 75.05 (74.75 to 75.75): VU035814.D (-2127) (-)

Ion 77.05 (76.75 to 77.75): VU035823.D (-2055) (-)

8.24

120000

100000

80000

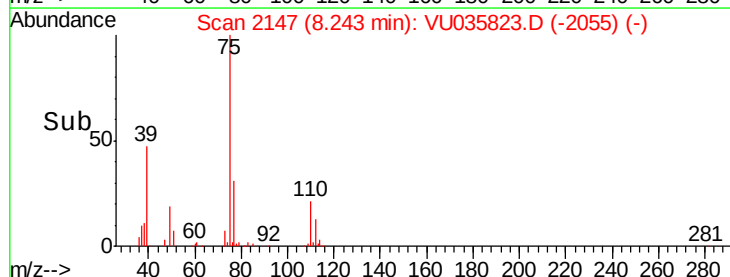
60000

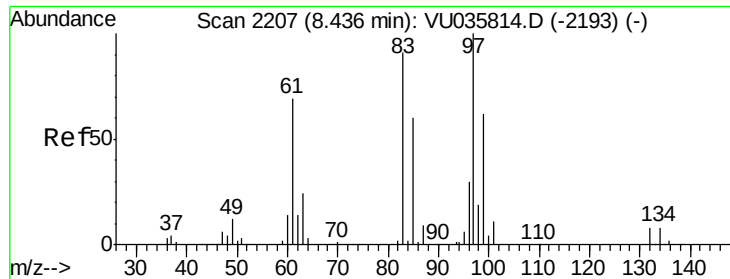
40000

20000

0

Time--> 8.10 8.20 8.30 8.40

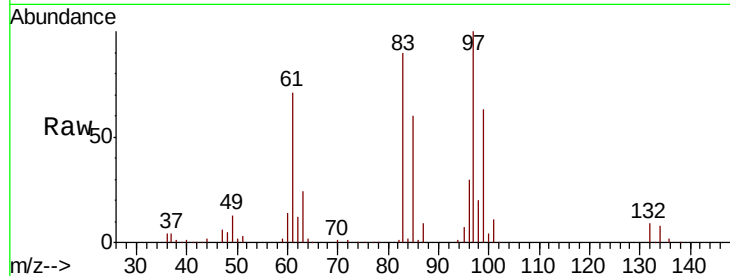




#45
1,1,2-Trichloroethane
Concen: 4.949 ug/L
RT: 8.43 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:	97	Resp:	110515
Ion	Ratio	Lower	Upper
97	100		
99	63.4	44.2	82.0
83	89.9	62.2	115.6
85	59.6	41.5	77.1



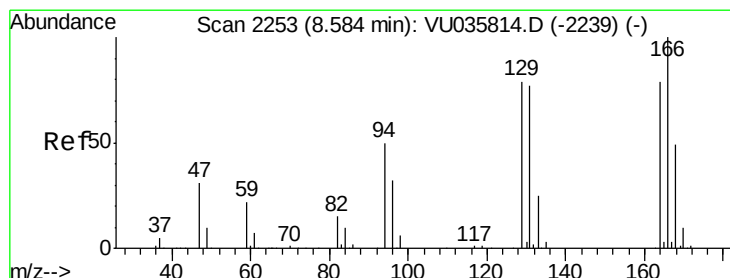
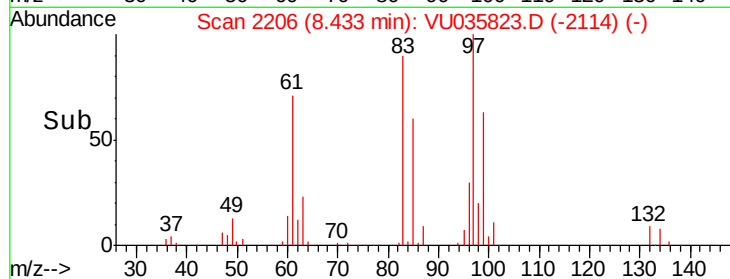
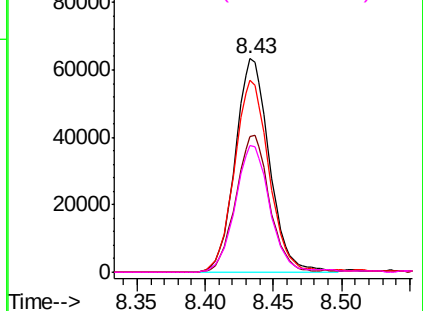
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

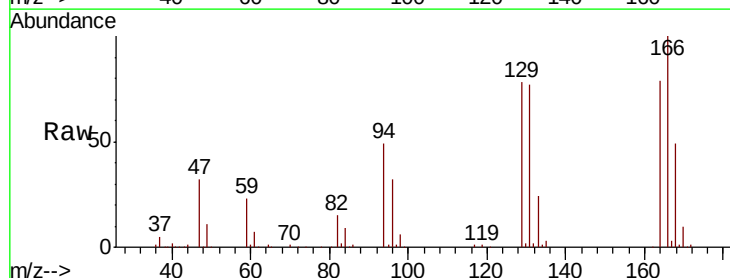
Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47
Tetrachloroethene
Concen: 4.818 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

Tgt Ion:	164	Resp:	108623
Ion	Ratio	Lower	Upper
164	100		
129	98.5	68.8	127.8
131	97.1	67.3	124.9
166	126.7	91.6	170.2



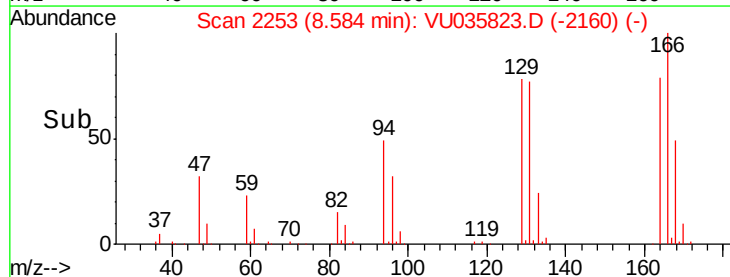
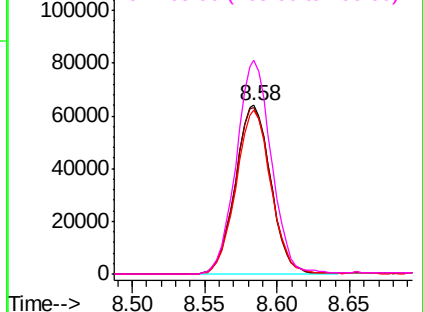
Abundance

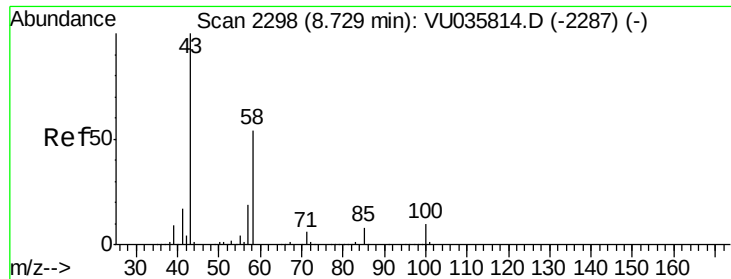
Ion 163.90 (163.60 to 164.60): V

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

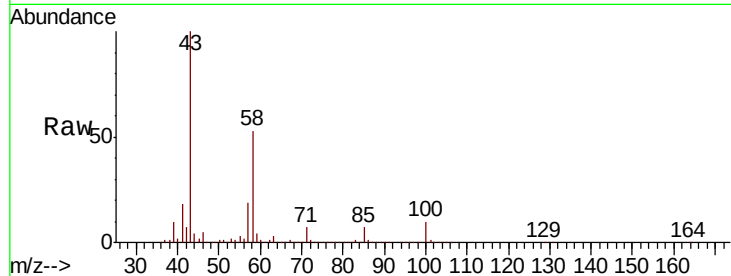




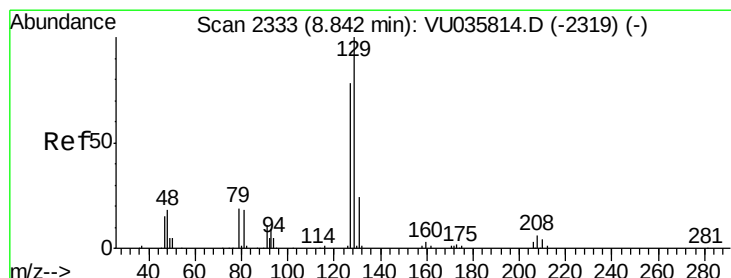
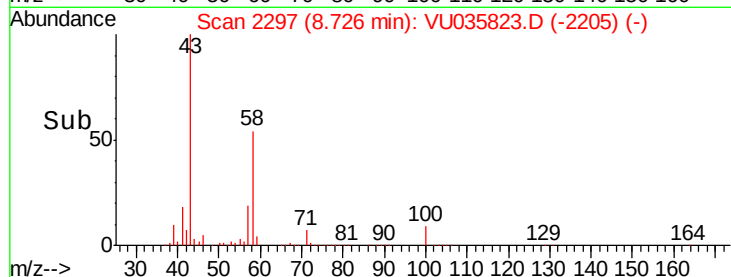
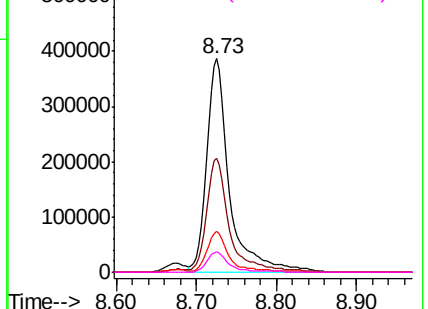
#48
2-Hexanone
Concen: 49.182 ug/L
RT: 8.73 min Scan# 2297
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 43 Resp: 761847
Ion Ratio Lower Upper
43 100
58 53.7 39.8 59.8
57 17.4 14.0 21.0
100 9.6 7.2 10.8

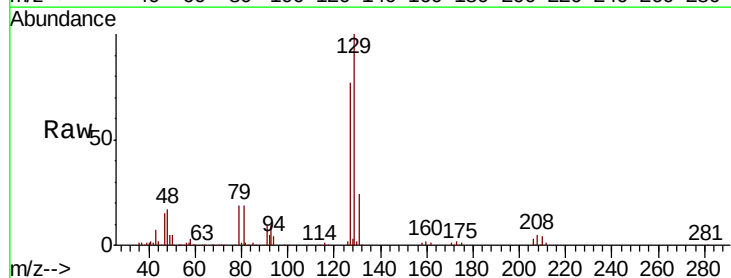


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

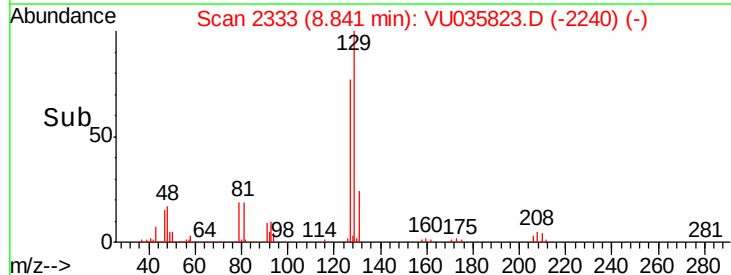
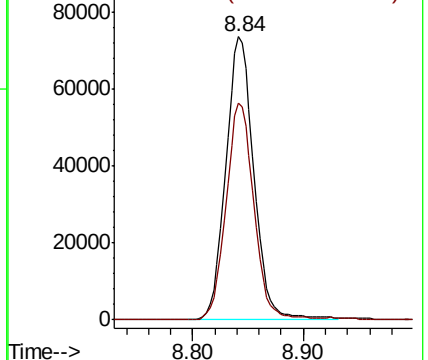


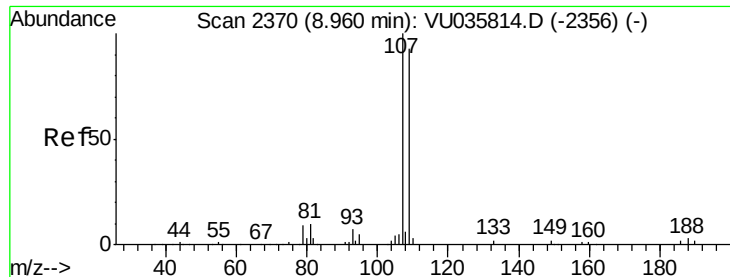
#49
Dibromochloromethane
Concen: 4.934 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

Tgt Ion: 129 Resp: 129998
Ion Ratio Lower Upper
129 100
127 76.7 53.1 98.5



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





#50

1,2-Dibromoethane

Concen: 4.875 ug/L

RT: 8.96 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :
MSVOA_U
ClientSampleId :

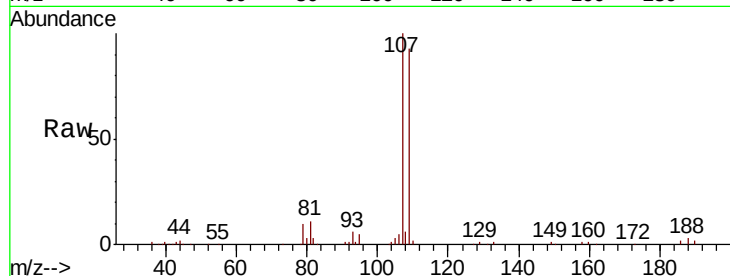
Tot Ion:107 Resp: 99622

Ion Ratio Lower Upper

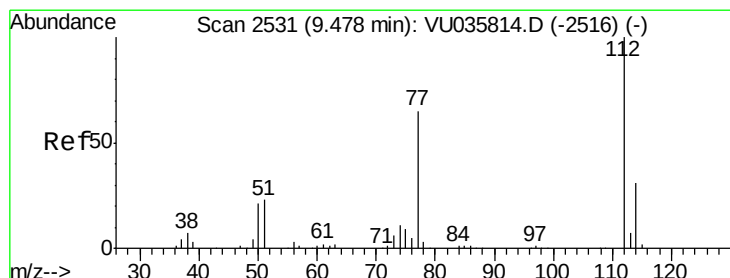
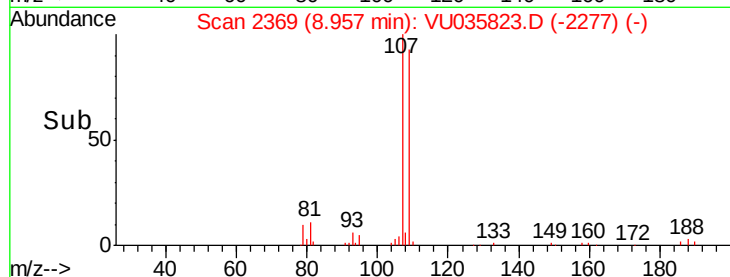
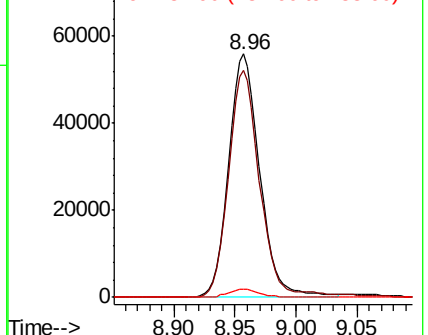
107 100

109 93.2 62.6 116.3

188 3.4 2.8 4.2



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



#51

Chlorobenzene

Concen: 4.853 ug/L

RT: 9.48 min Scan# 2531

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

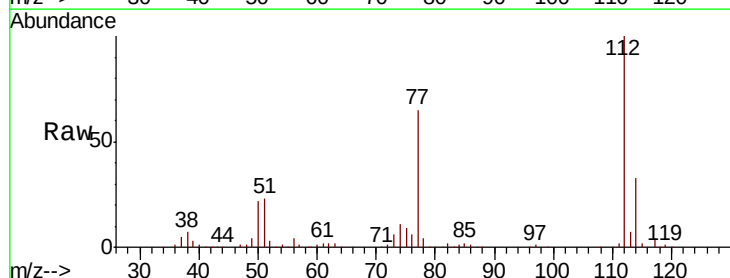
Tgt Ion:112 Resp: 377855

Ion Ratio Lower Upper

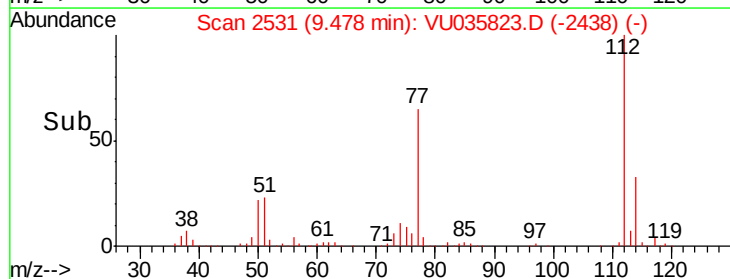
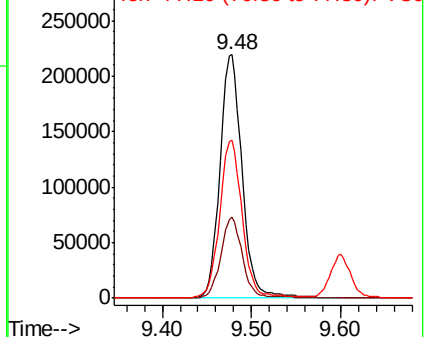
112 100

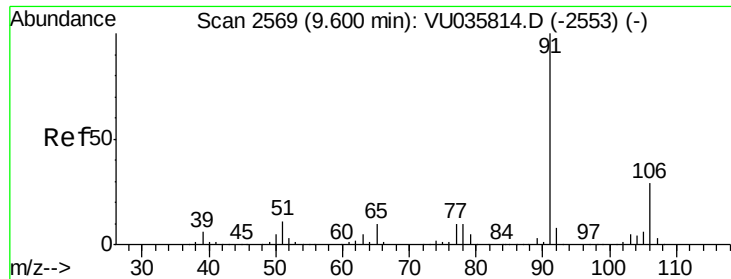
114 33.1 22.2 41.2

77 64.7 50.1 75.1



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.896 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :

MSVOA_U

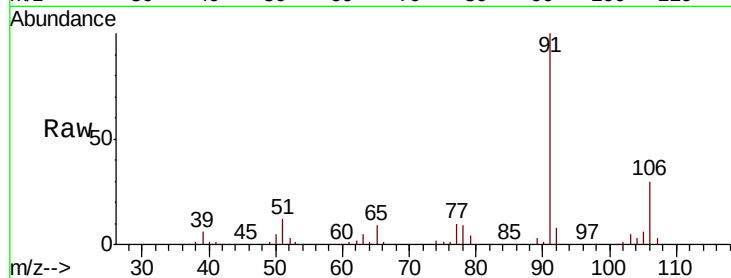
ClientSampleId :

Tot Ion: 91 Resp: 636412

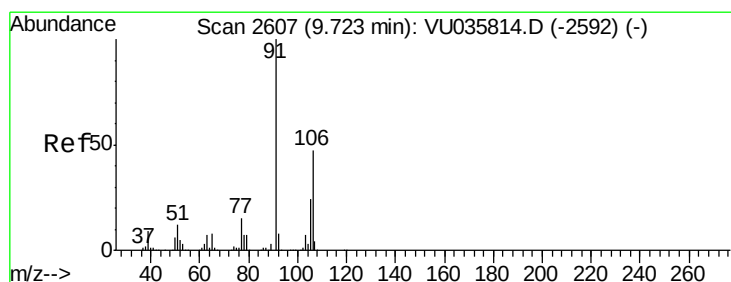
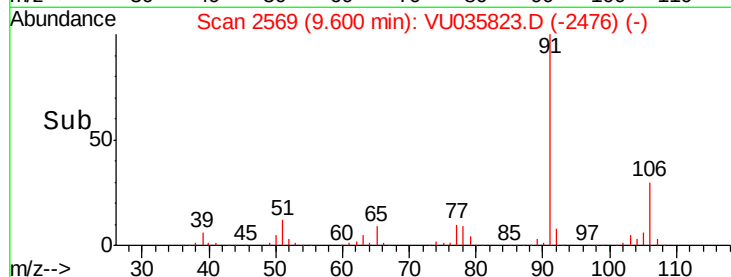
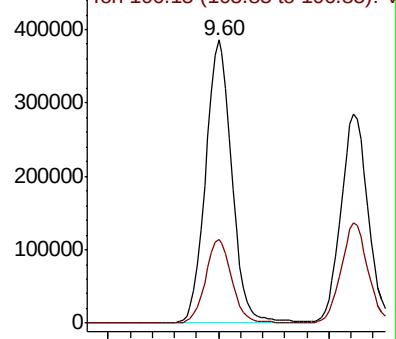
Ion Ratio Lower Upper

91 100

106 29.8 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU035814.D (-2553) (-)



#53

m,p-Xylene

Concen: 5.165 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035823.D

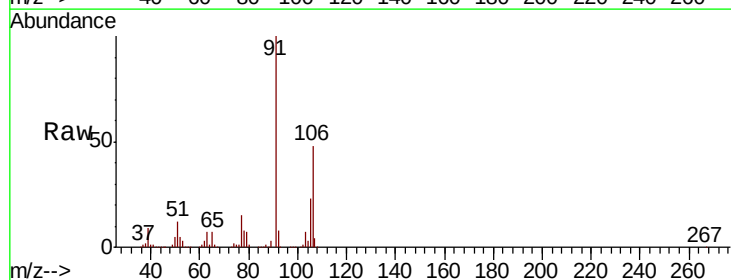
Acq: 22 Nov 2019 16:53

Tgt Ion: 106 Resp: 236690

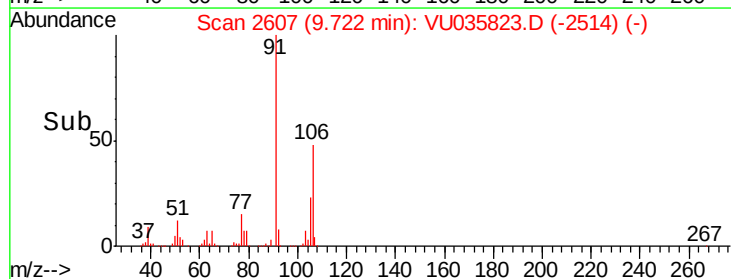
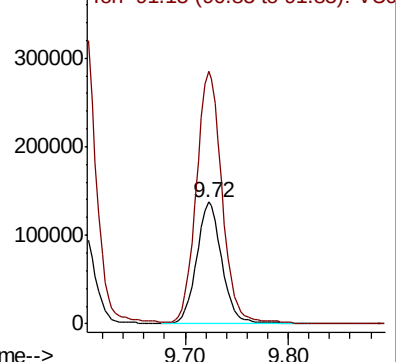
Ion Ratio Lower Upper

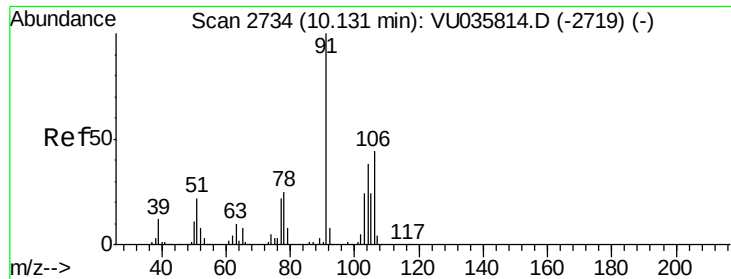
106 100

91 208.4 149.9 278.5



Abundance Ion 106.15 (105.85 to 106.85): VU035814.D (-2592) (-)

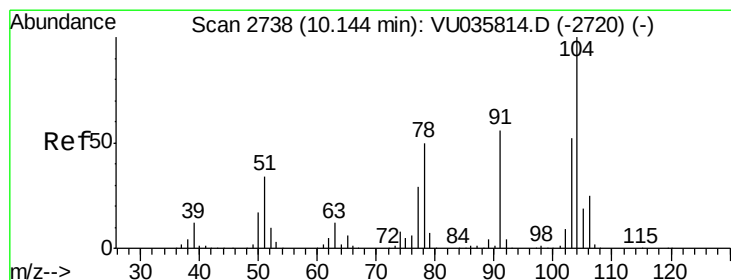
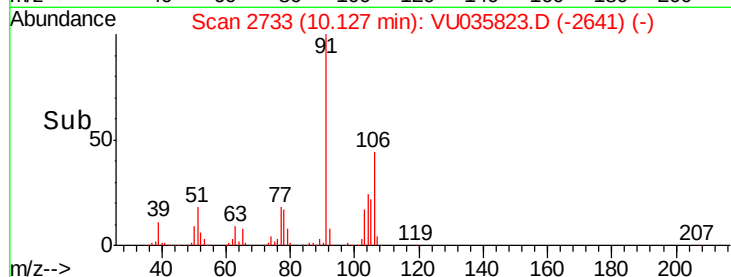
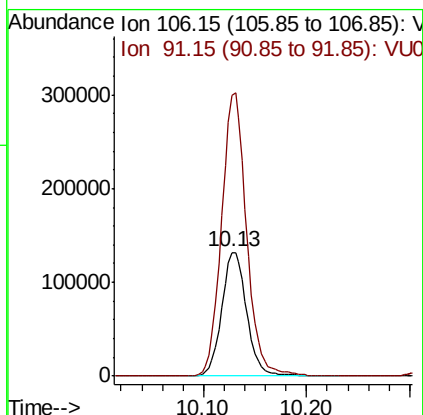
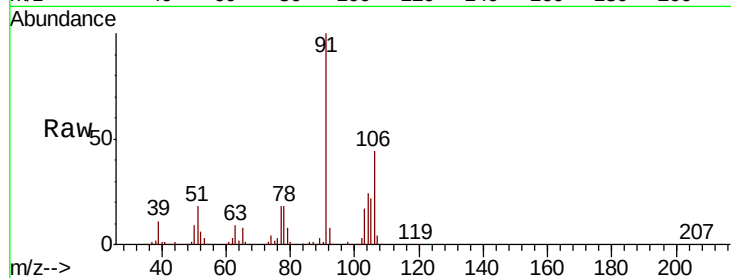




#54
o-Xylene
Concen: 5.001 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

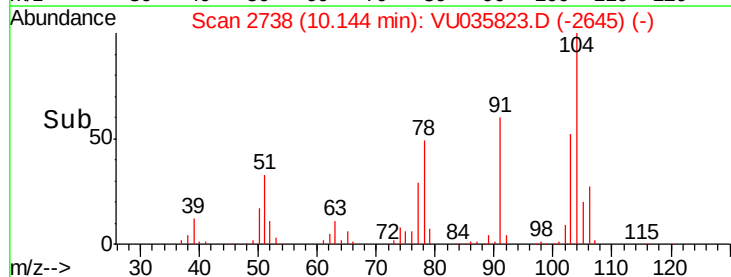
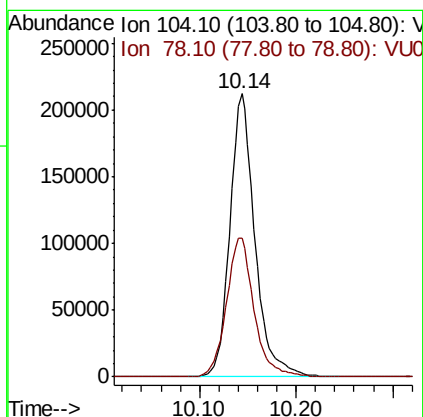
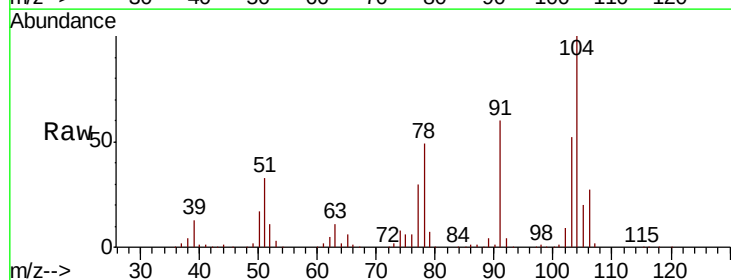
Instrument :
MSVOA_U
ClientSampled :

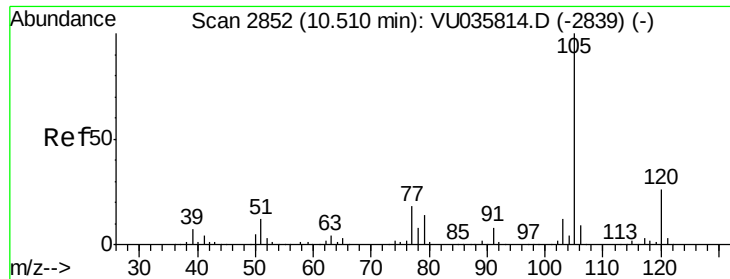
Tot Ion:106 Resp: 222559
Ion Ratio Lower Upper
106 100
91 227.0 153.6 285.2



#55
Styrene
Concen: 5.141 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

Tgt Ion:104 Resp: 379483
Ion Ratio Lower Upper
104 100
78 49.1 33.9 62.9





#56

Isopropylbenzene

Concen: 5.029 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :

MSVOA_U

ClientSampleId :

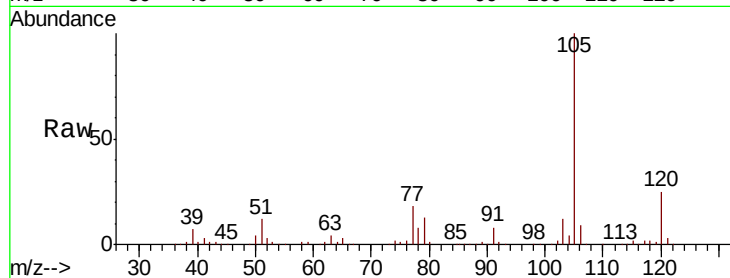
Tot Ion:105 Resp: 591188

Ion Ratio Lower Upper

105 100

120 25.4 20.2 30.2

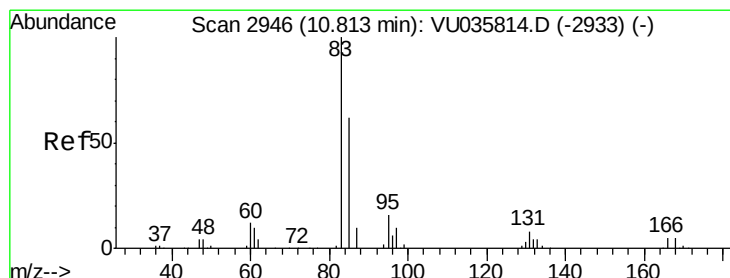
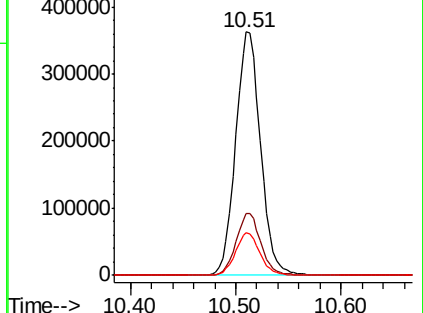
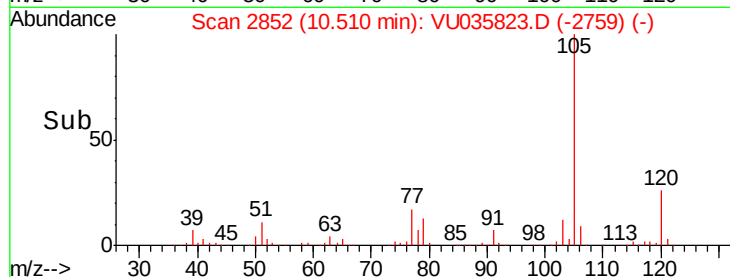
77 17.4 13.7 20.5



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: 4.790 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

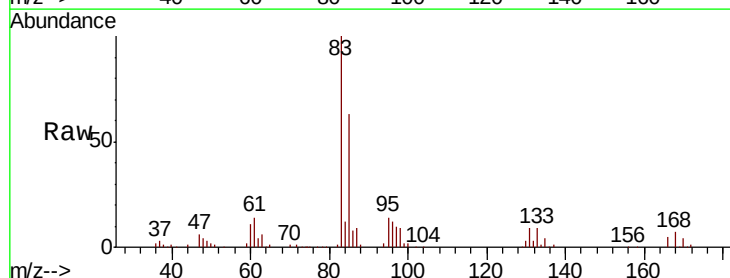
Tgt Ion: 83 Resp: 148018

Ion Ratio Lower Upper

83 100

85 63.0 44.6 82.8

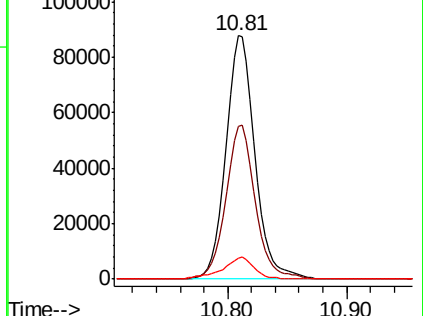
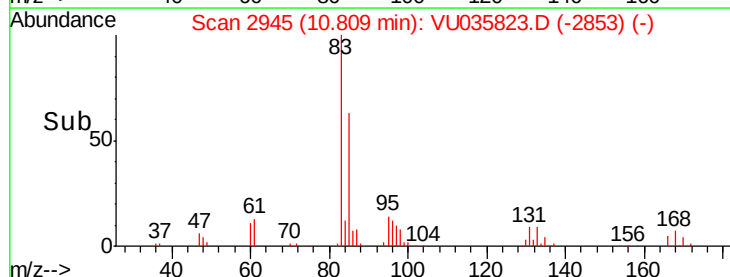
131 8.8 6.9 10.3

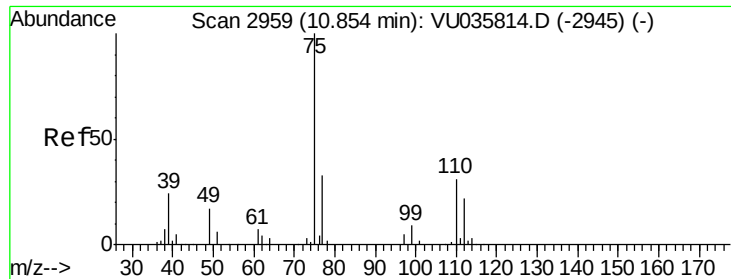


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.675 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :

MSVOA_U

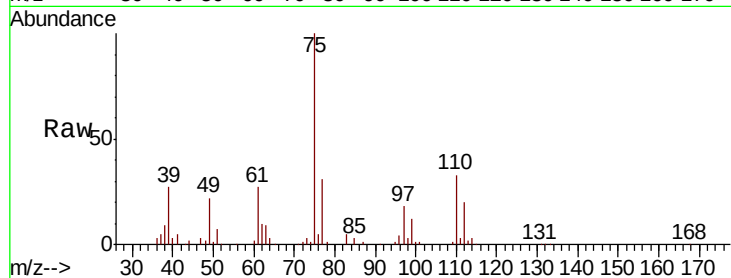
ClientSampleId :

Tot Ion: 75 Resp: 104167

Ion Ratio Lower Upper

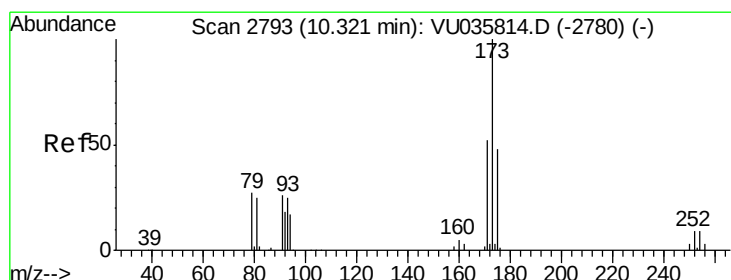
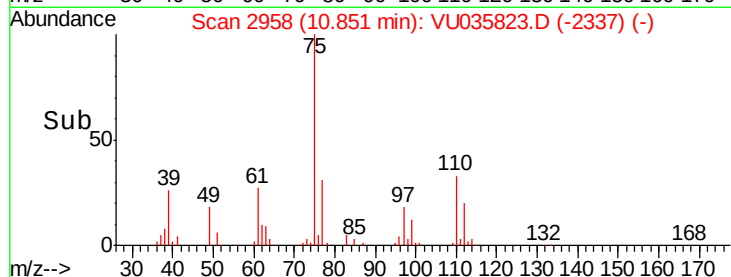
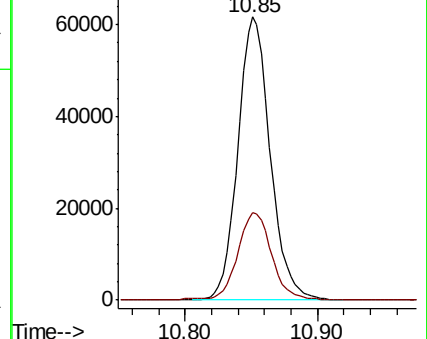
75 100

77 32.2 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VU035814.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU035814.D (-2945) (-)



#61

Bromoform

Concen: 4.977 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. -0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

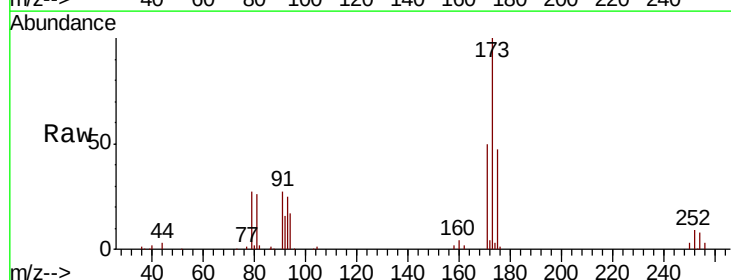
Tgt Ion: 173 Resp: 70076

Ion Ratio Lower Upper

173 100

175 47.2 40.1 60.1

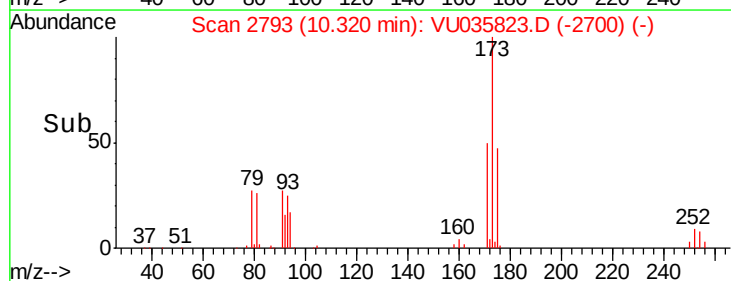
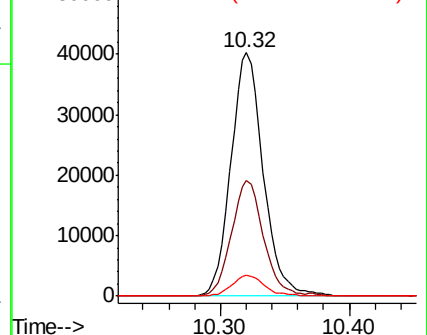
254 8.6 7.1 10.7

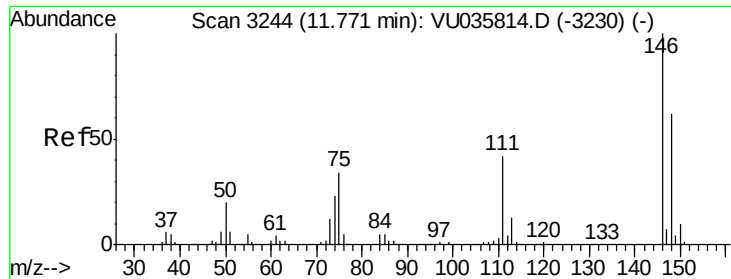


Abundance Ion 172.90 (172.60 to 173.60): VU035814.D (-2780) (-)

Ion 174.90 (174.60 to 175.60): VU035814.D (-2780) (-)

Ion 253.75 (253.45 to 254.45): VU035814.D (-2780) (-)

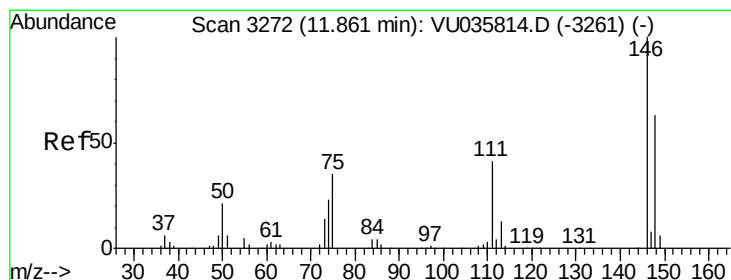
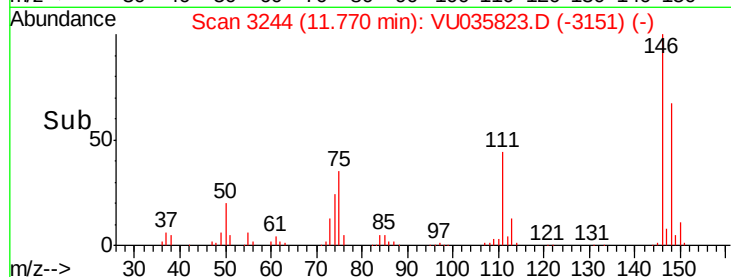
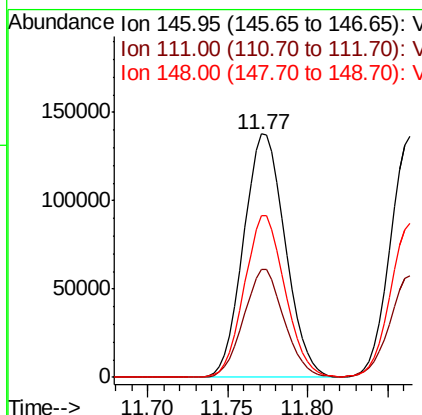
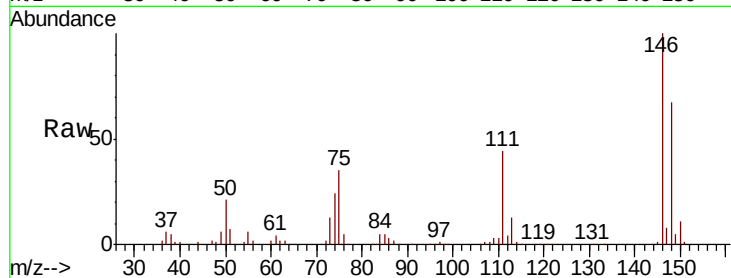




#62
 1,3-Dichlorobenzene
 Concen: 4.914 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. -0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

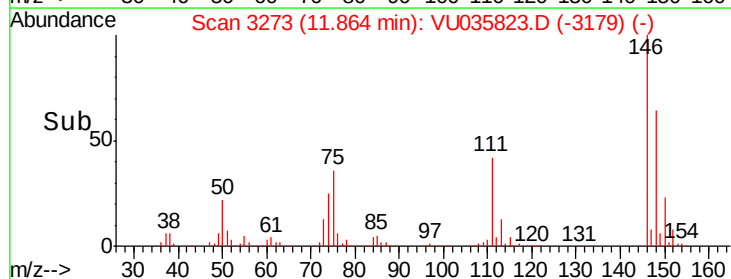
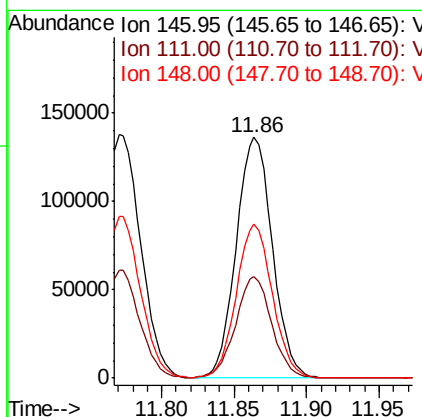
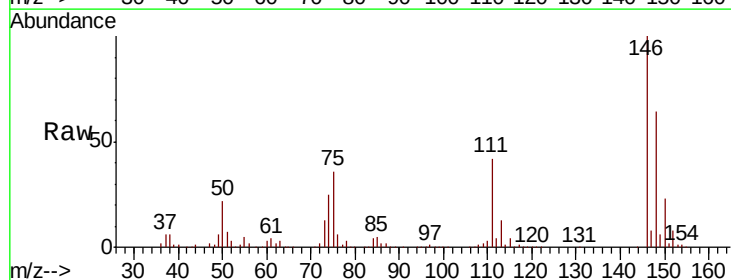
Instrument :
 MSVOA_U
 ClientSampleId :

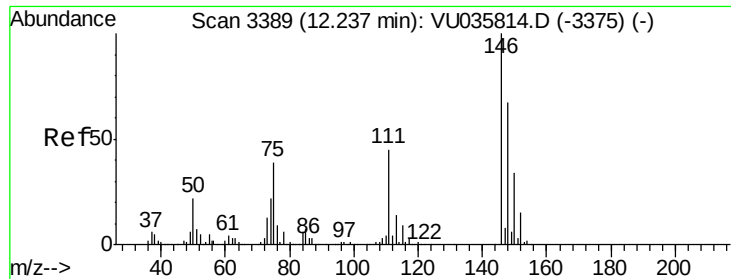
Tot Ion:146 Resp: 247131
 Ion Ratio Lower Upper
 146 100
 111 44.4 29.5 54.7
 148 66.5 44.1 81.9



#63
 1,4-Dichlorobenzene
 Concen: 4.790 ug/L
 RT: 11.86 min Scan# 3273
 Delta R.T. 0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Tgt Ion:146 Resp: 237161
 Ion Ratio Lower Upper
 146 100
 111 42.2 27.9 51.7
 148 63.8 44.2 82.2





#65

1,2-Dichlorobenzene

Concen: 4.835 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

Instrument :

MSVOA_U

ClientSampleId :

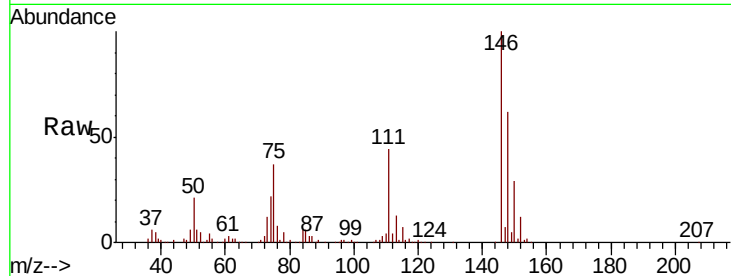
Tot Ion:146 Resp: 232028

Ion Ratio Lower Upper

146 100

111 43.8 35.4 53.0

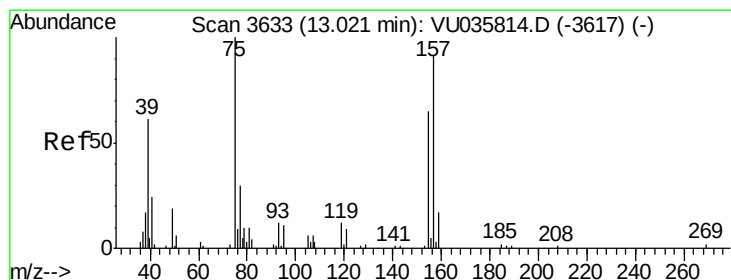
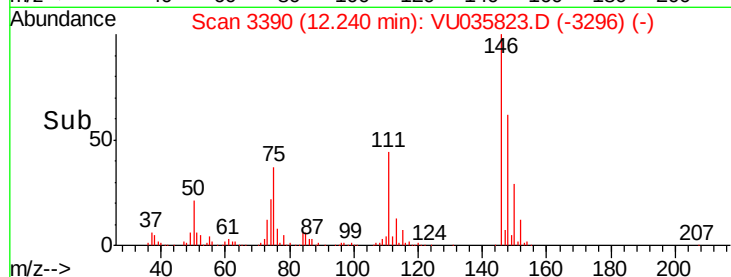
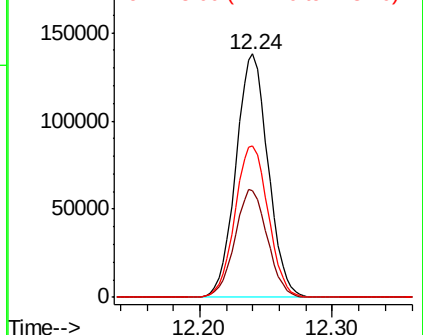
148 62.0 50.8 76.2



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: 3.884 ug/L

RT: 13.02 min Scan# 3634

Delta R.T. 0.00 min

Lab File: VU035823.D

Acq: 22 Nov 2019 16:53

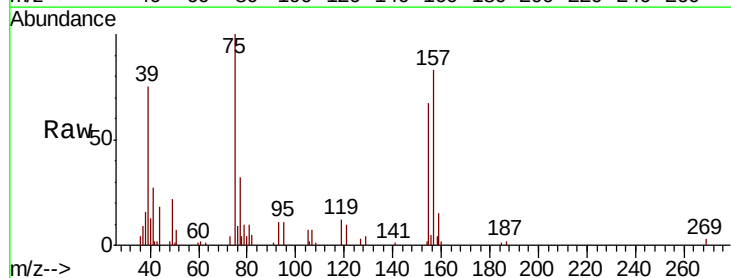
Tgt Ion: 75 Resp: 15423

Ion Ratio Lower Upper

75 100

155 67.2 55.4 83.2

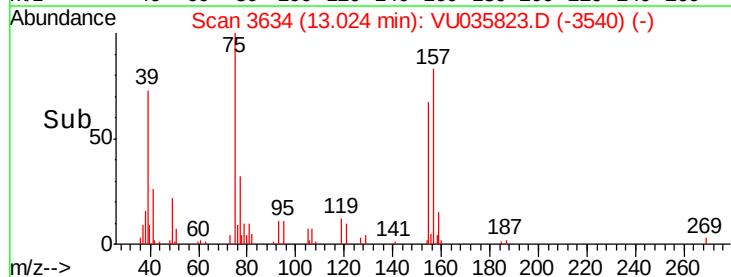
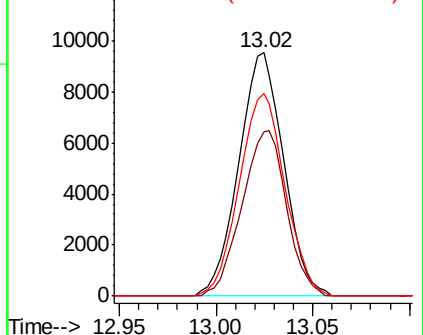
157 83.0 69.4 104.2

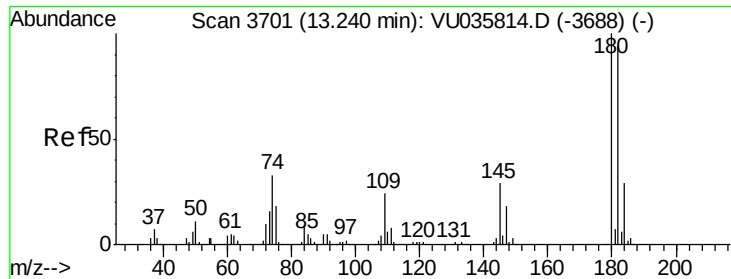


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

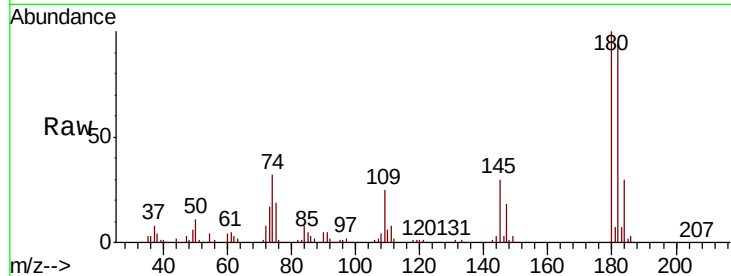




#67
 1,3,5-Trichlorobenzene
 Concen: 4.167 ug/L
 RT: 13.24 min Scan# 3702
 Delta R.T. 0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.6	113.4
184	30.6	24.1	36.1
145	29.8	23.7	35.5



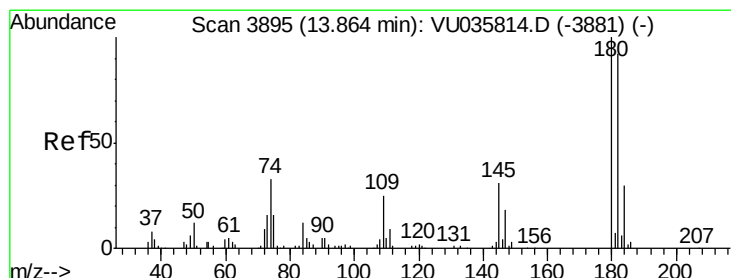
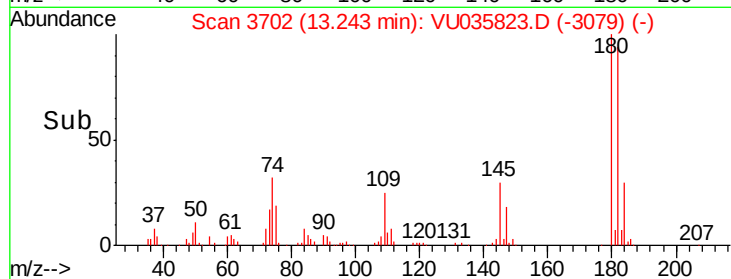
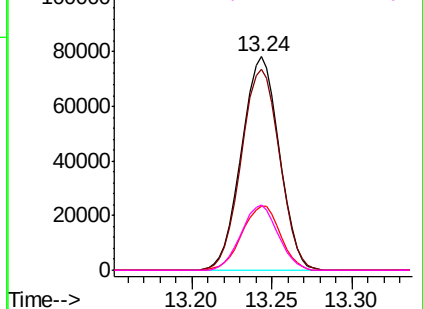
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

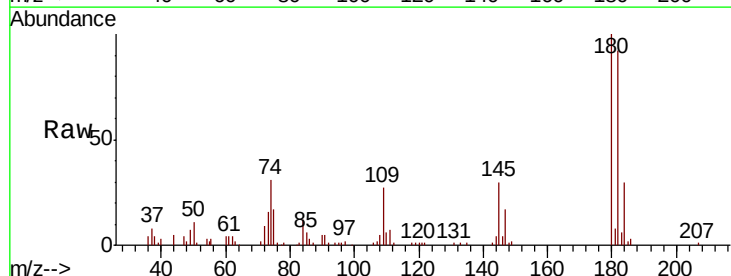
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 3.017 ug/L
 RT: 13.86 min Scan# 3895
 Delta R.T. -0.00 min
 Lab File: VU035823.D
 Acq: 22 Nov 2019 16:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	75.1	112.7
145	31.3	24.0	36.0

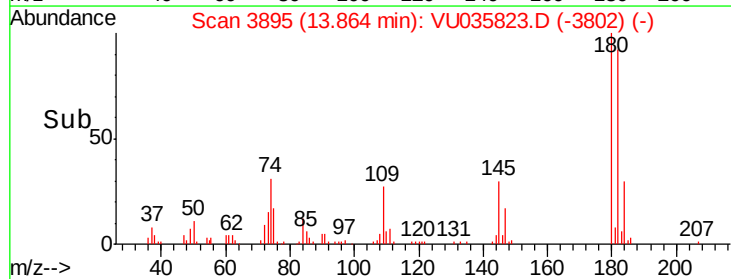
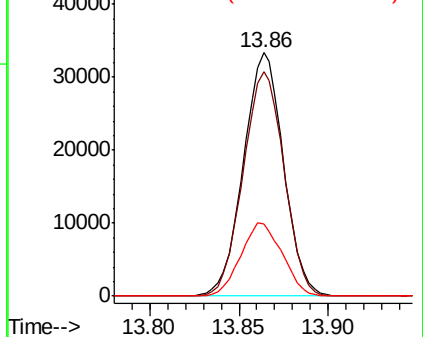


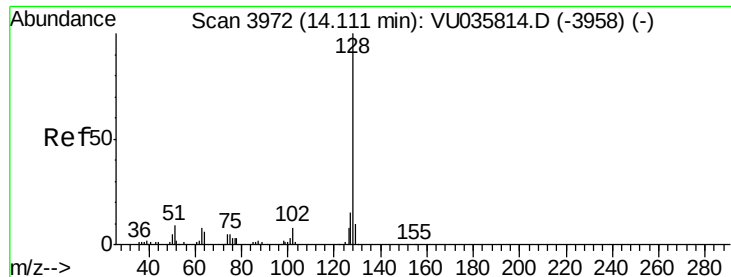
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V

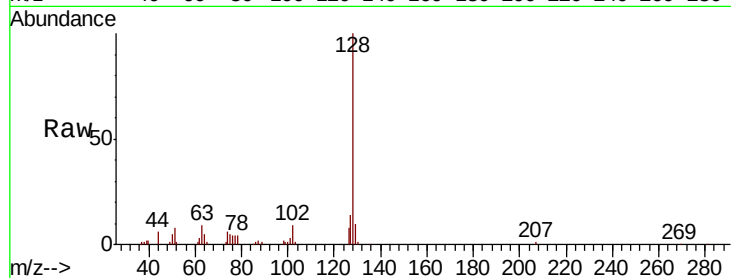




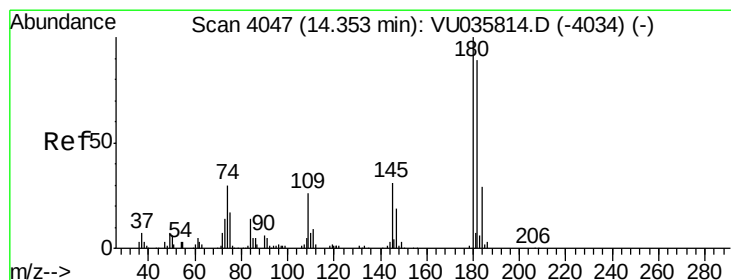
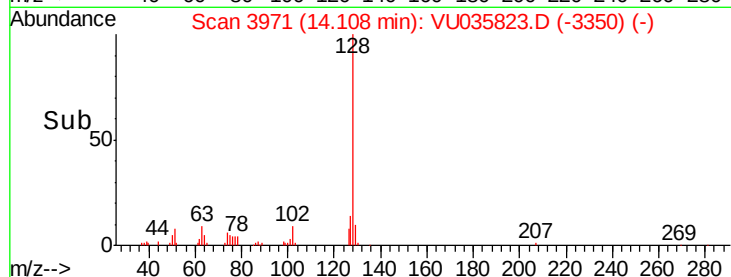
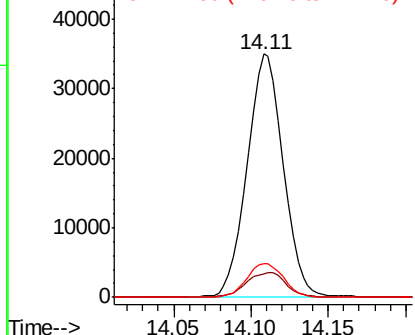
#69
Naphthalene
Concen: 2.330 ug/L
RT: 14.11 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:128 Resp: 56998
Ion Ratio Lower Upper
128 100
129 11.4 9.0 13.4
127 14.2 11.8 17.6

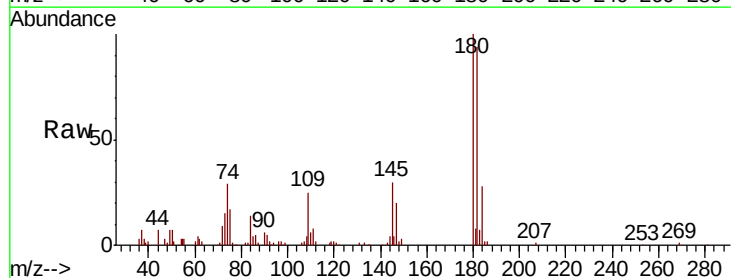


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#70
1,2,3-Trichlorobenzene
Concen: 3.073 ug/L
RT: 14.35 min Scan# 4047
Delta R.T. -0.00 min
Lab File: VU035823.D
Acq: 22 Nov 2019 16:53

Tgt Ion:180 Resp: 51906
Ion Ratio Lower Upper
180 100
182 94.5 77.4 116.0
145 30.3 24.7 37.1



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

