

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U122619\
 Data File : VU036348.D
 Acq On : 26 Dec 2019 16:00
 Operator : JC/MD
 Sample : VSTDCCC005EC
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 26 16:21:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 26 15:41:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	301828	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	316408	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	171868	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	107178	4.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.60%
7) Chloroethane-d5	1.93	69	108370	4.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.00%
11) 1,1-Dichloroethene-d2	2.59	63	159251	4.15	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	83.00%
20) 2-Butanone-d5	4.69	46	264920	53.20	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.40%
24) Chloroform-d	5.11	84	201116	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
26) 1,2-Dichloroethane-d4	5.75	65	103527	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
32) Benzene-d6	5.77	84	354414	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
36) 1,2-Dichloropropane-d6	6.73	67	117859	4.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.00%
41) Toluene-d8	7.93	98	326167	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
43) trans-1,3-Dichloropropene-	8.21	79	48306	4.69	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.80%
46) 2-Hexanone-d5	8.67	63	213420	54.13	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.26%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	109344	4.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.40%
64) 1,2-Dichlorobenzene-d4	12.21	152	134983	4.10	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	125031	3.711	ug/L	99
3) Chloromethane	1.54	50	129764	3.070	ug/L	97
5) Vinyl chloride	1.62	62	151615	3.780	ug/L	98
6) Bromomethane	1.87	94	52585	2.624	ug/L	96
8) Chloroethane	1.95	64	98452	4.111	ug/L	98
9) Trichlorofluoromethane	2.16	101	193458	3.828	ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	94915	3.920	ug/L	99
12) 1,1-Dichloroethene	2.61	96	86727	3.873	ug/L	92
13) Acetone	2.67	43	181323	41.783	ug/L	98
14) Carbon disulfide	2.82	76	277419	3.693	ug/L	99
15) Methyl Acetate	2.99	43	40373	4.605	ug/L	95
16) Methylene chloride	3.08	84	110558	3.359	ug/L	96
17) Methyl tert-butyl Ether	3.41	73	210301	4.382	ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	93486	3.986	ug/L	98
19) 1,1-Dichloroethane	3.92	63	183716	4.243	ug/L	99
21) 2-Butanone	4.76	43	259427	44.737	ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	104410	4.151	ug/L	99

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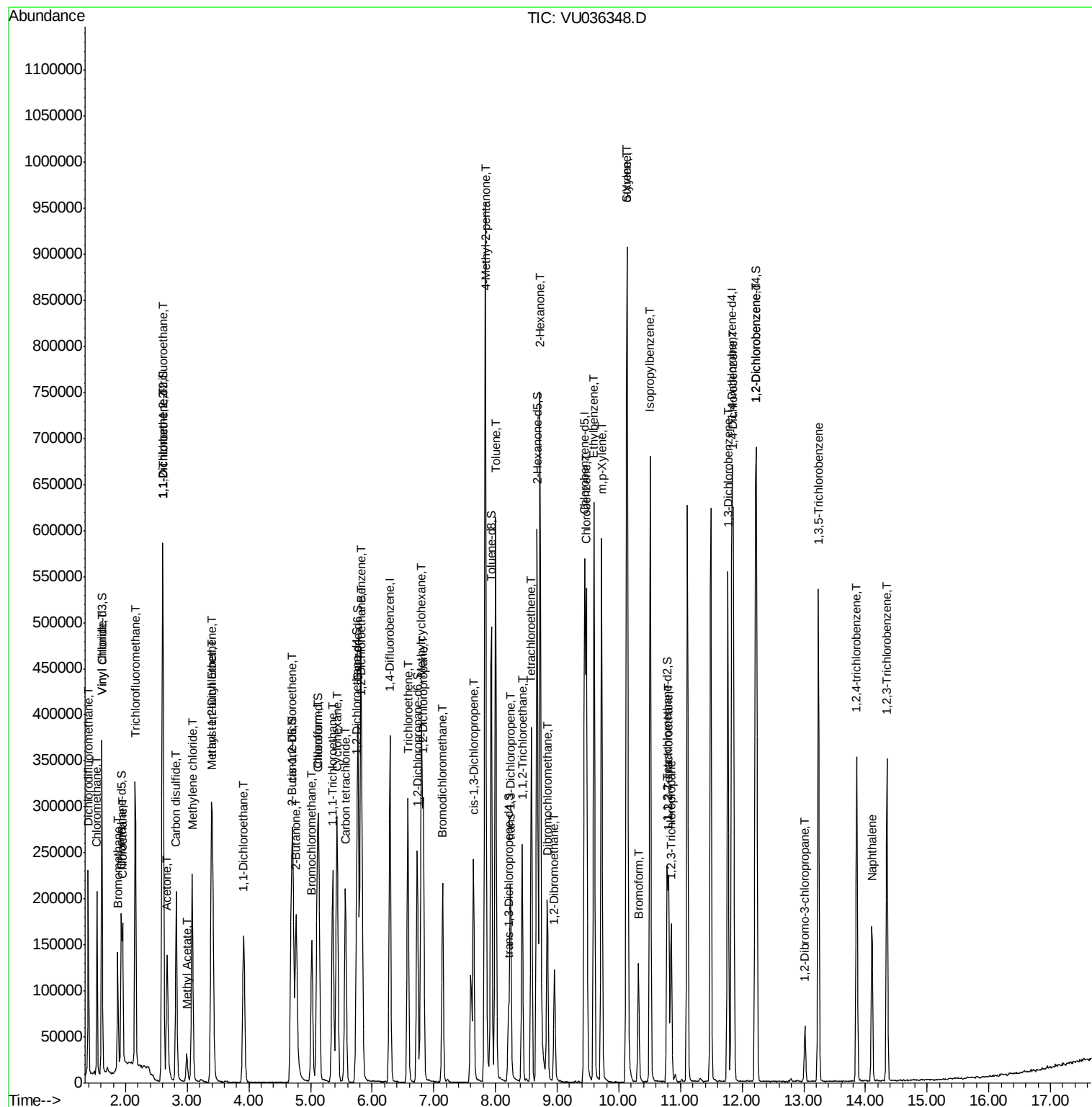
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	51460	4.228	ug/L	93
25) Chloroform	5.13	83	198883	4.247	ug/L	98
27) 1,2-Dichloroethane	5.84	62	123025	4.429	ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	162366	4.168	ug/L	99
30) Cyclohexane	5.43	56	130001	3.923	ug/L	96
31) Carbon tetrachloride	5.56	117	147640	4.157	ug/L	98
33) Benzene	5.82	78	416876	4.287	ug/L	100
34) Trichloroethene	6.58	95	105596	4.212	ug/L	99
35) Methylcyclohexane	6.80	83	142273	3.992	ug/L	99
37) 1,2-Dichloropropane	6.83	63	108539	4.375	ug/L	98
38) Bromodichloromethane	7.14	83	141173	4.372	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	144359	4.271	ug/L	99
40) 4-Methyl-2-pentanone	7.84	43	607848	46.843	ug/L	100
42) Toluene	8.00	91	446376	4.283	ug/L	96
44) trans-1,3-Dichloropropene	8.24	75	126569	4.458	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	82359	4.431	ug/L	91
47) Tetrachloroethene	8.58	164	90468	3.996	ug/L	95
48) 2-Hexanone	8.72	43	476585	49.213	ug/L	100
49) Dibromochloromethane	8.84	129	103872	4.521	ug/L	97
50) 1,2-Dibromoethane	8.95	107	75242	4.244	ug/L	92
51) Chlorobenzene	9.47	112	282747	4.108	ug/L	97
52) Ethylbenzene	9.60	91	433300	4.139	ug/L	98
53) m,p-Xylene	9.72	106	171004	4.240	ug/L	95
54) o-Xylene	10.13	106	161410	4.149	ug/L	97
55) Styrene	10.14	104	287962	4.183	ug/L	97
56) Isopropylbenzene	10.51	105	420142	4.205	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.81	83	106688	4.508	ug/L	97
59) 1,2,3-Trichloropropane	10.85	75	72197	4.379	ug/L	100
61) Bromoform	10.32	173	60802	4.075	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	235546	4.062	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	232070	4.035	ug/L	99
65) 1,2-Dichlorobenzene	12.23	146	225514	4.082	ug/L	98
66) 1,2-Dibromo-3-chloropropan	13.02	75	16105	4.389	ug/L	92
67) 1,3,5-Trichlorobenzene	13.24	180	171274	3.942	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	115346	4.041	ug/L	99
69) Naphthalene	14.10	128	135352	3.727	ug/L	98
70) 1,2,3-Trichlorobenzene	14.35	180	113975	4.129	ug/L	99

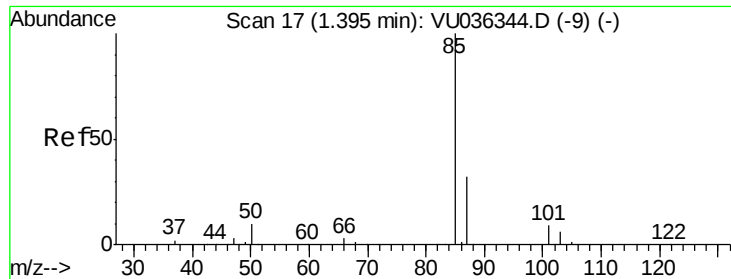
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 3.711 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

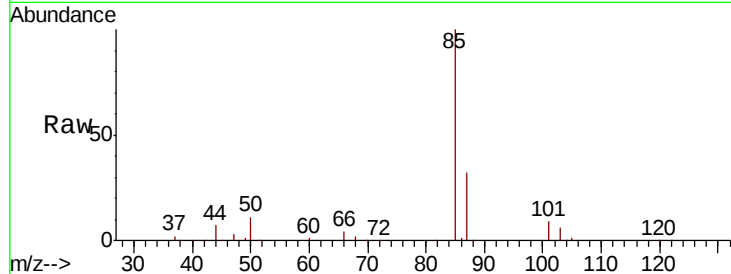
ClientSampleId :

Tot Ion: 85 Resp: 125031

Ion Ratio Lower Upper

85 100

87 32.6 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU036348.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU036348.D (-9) (-)

1.39

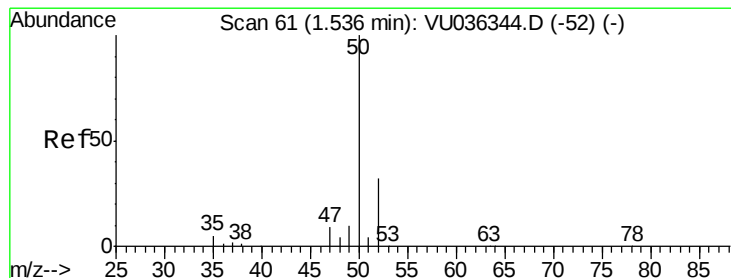
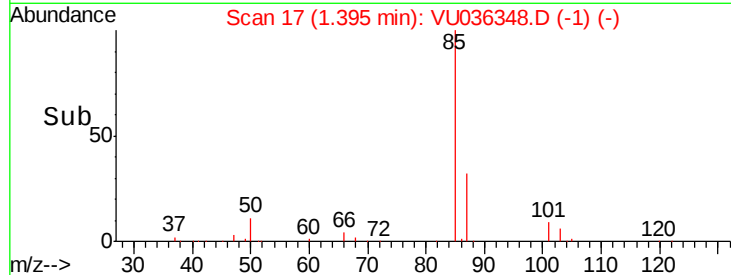
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 3.070 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036348.D

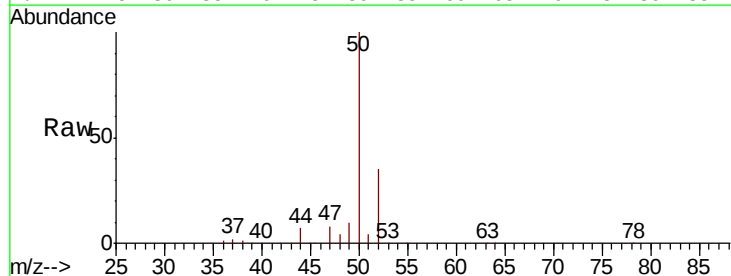
Acq: 26 Dec 2019 16:00

Tgt Ion: 50 Resp: 129764

Ion Ratio Lower Upper

50 100

52 34.6 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036348.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU036348.D (-52) (-)

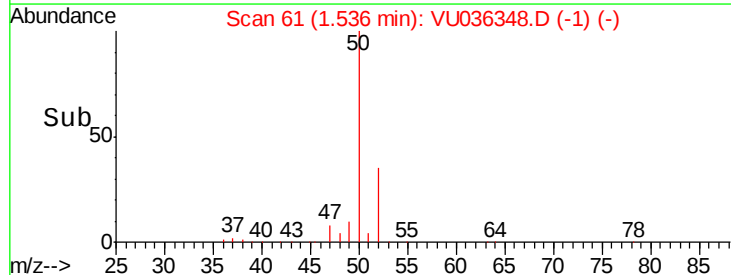
1.54

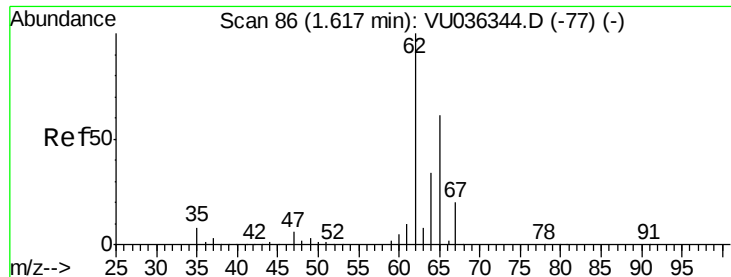
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 3.780 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

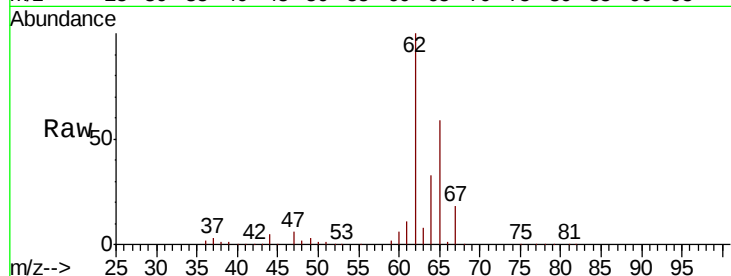
ClientSampleId :

Tot Ion: 62 Resp: 151615

Ion Ratio Lower Upper

62 100

64 33.2 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU036348.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU036348.D (-77) (-)

1.62

150000

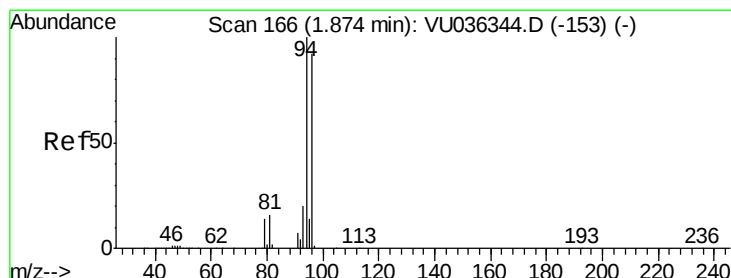
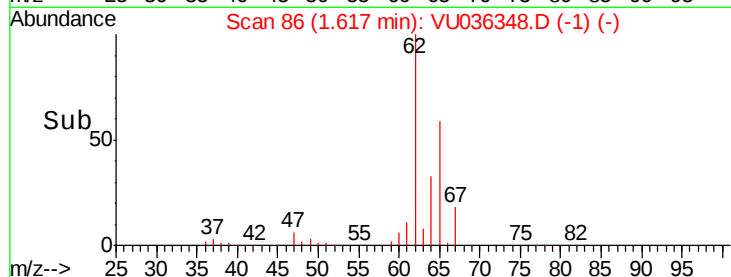
100000

50000

0

Time-->

1.55 1.60 1.65 1.70



#6

Bromomethane

Concen: 2.624 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036348.D

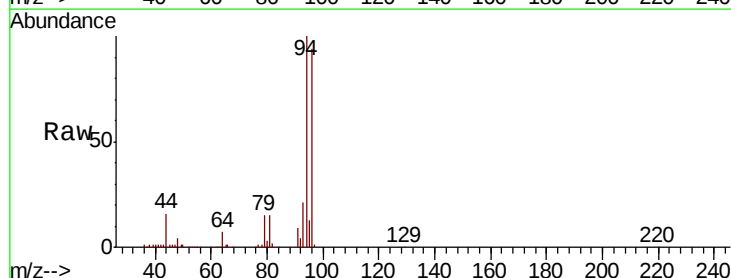
Acq: 26 Dec 2019 16:00

Tgt Ion: 94 Resp: 52585

Ion Ratio Lower Upper

94 100

96 93.6 62.9 116.9



Abundance Ion 94.00 (93.70 to 94.70): VU036348.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU036348.D (-153) (-)

1.87

50000

40000

30000

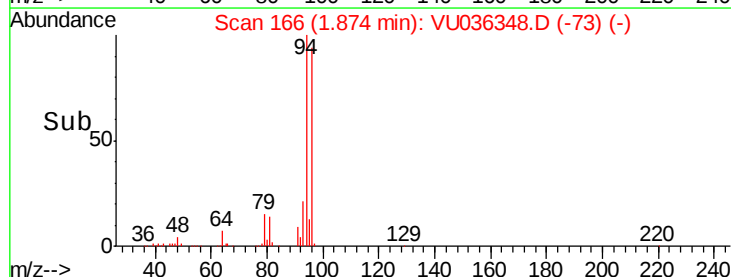
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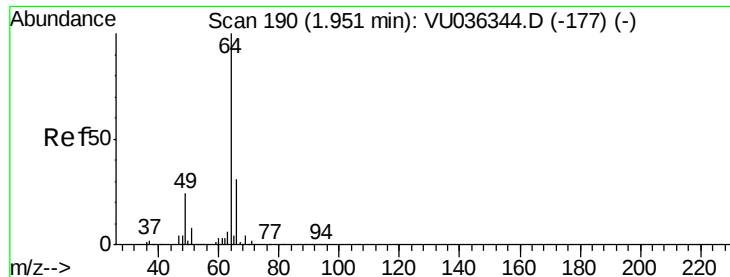
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0

Time-->

1.80 1.85 1.90 1.95

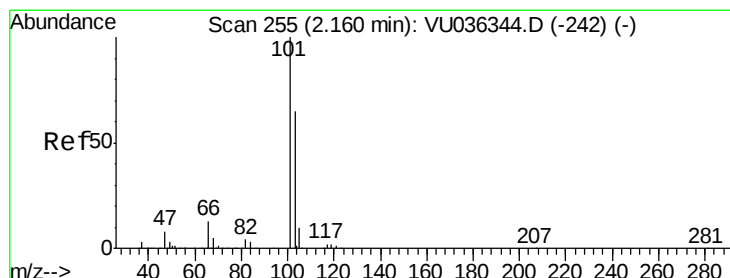
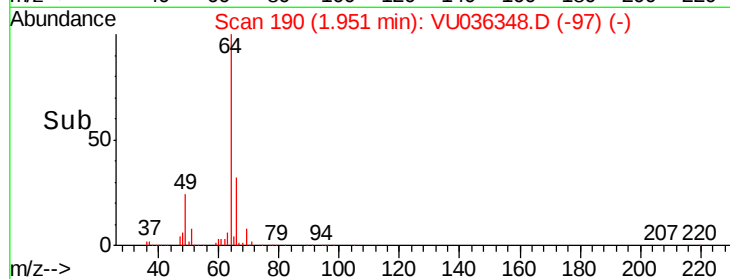
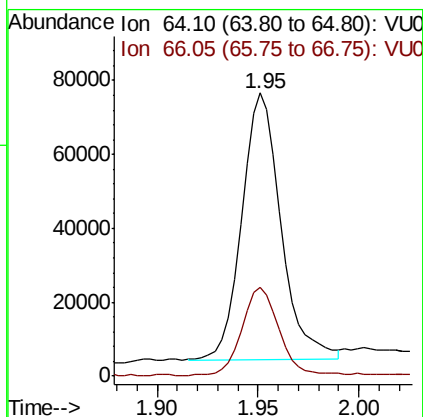
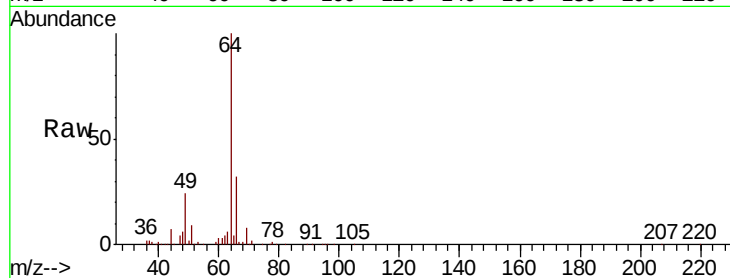




#8
Chloroethane
Concen: 4.111 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

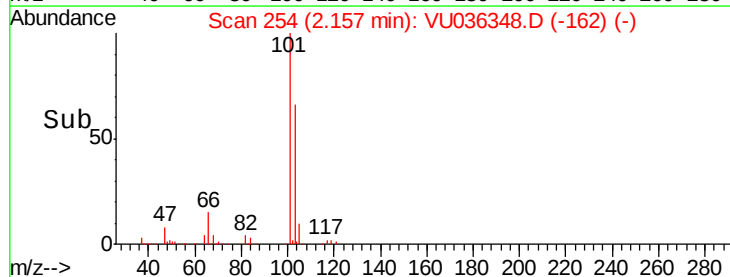
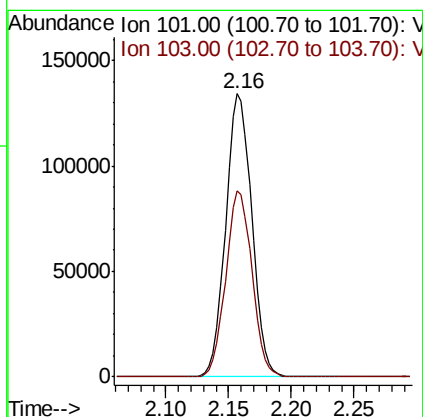
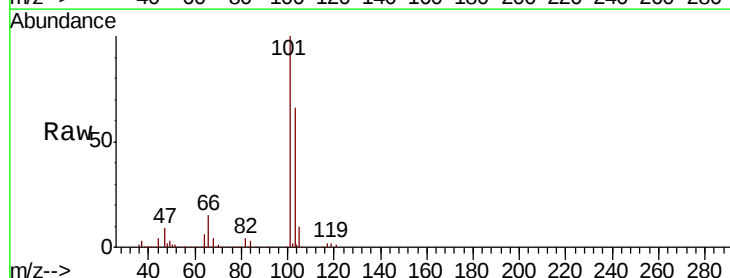
Instrument :
MSVOA_U
ClientSampled :

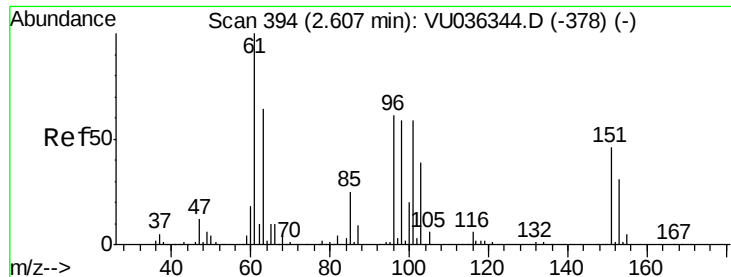
Tot Ion: 64 Resp: 98452
Ion Ratio Lower Upper
64 100
66 31.6 23.1 42.9



#9
Trichlorofluoromethane
Concen: 3.828 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

Tgt Ion: 101 Resp: 193458
Ion Ratio Lower Upper
101 100
103 66.1 50.4 75.6





#10

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

Concen: 3.920 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

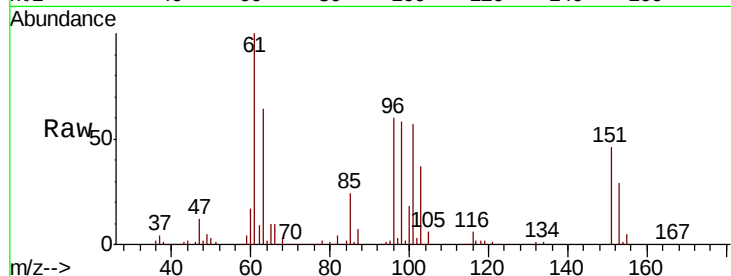
Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:101 Resp: 94915

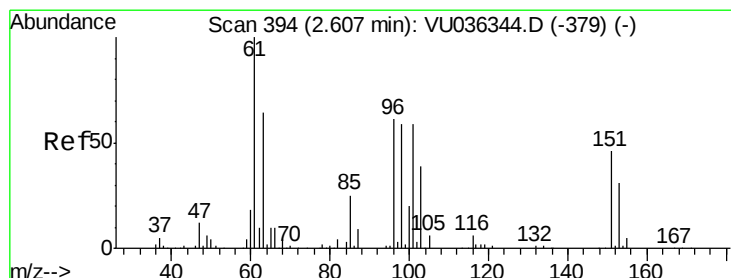
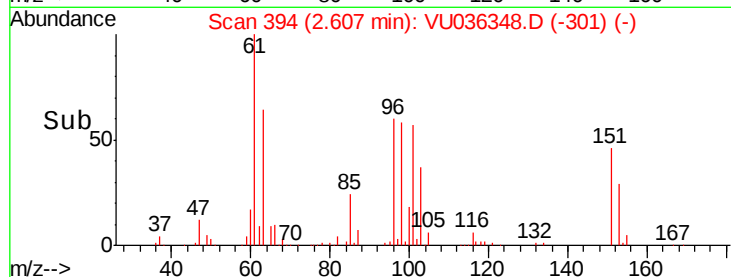
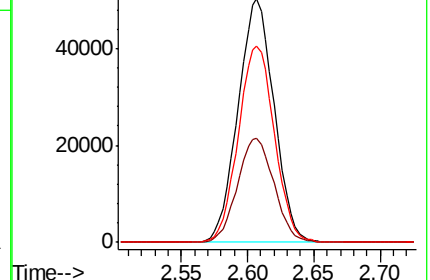
Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.0	52.6
151	80.5	63.9	95.9



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: 3.873 ug/L

RT: 2.61 min Scan# 394

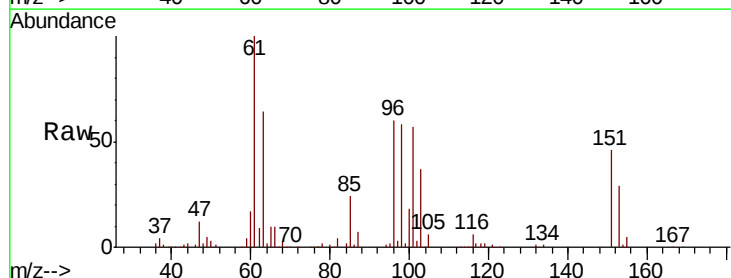
Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Tgt Ion: 96 Resp: 86727

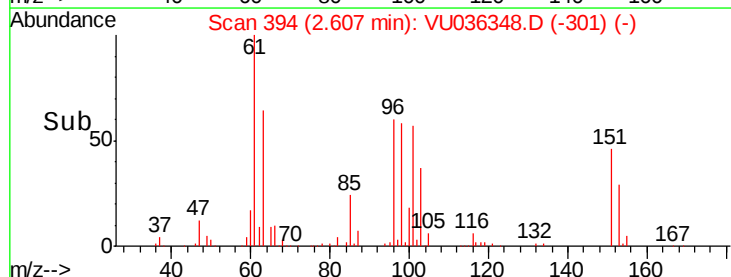
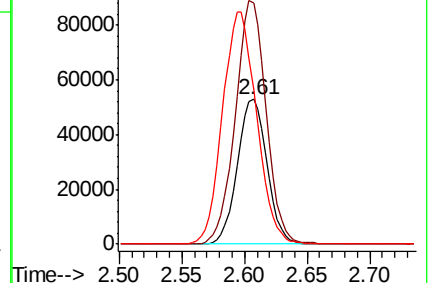
Ion	Ratio	Lower	Upper
96	100		
61	167.1	114.0	211.8
63	106.2	63.6	118.0

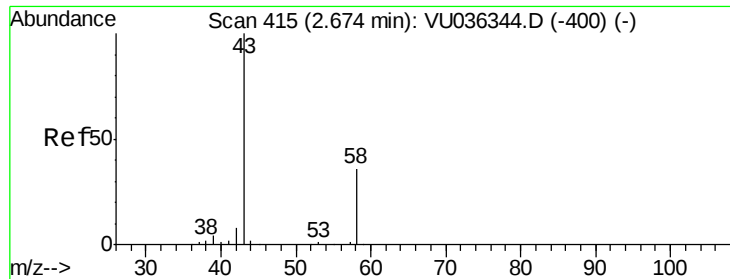


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 41.783 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

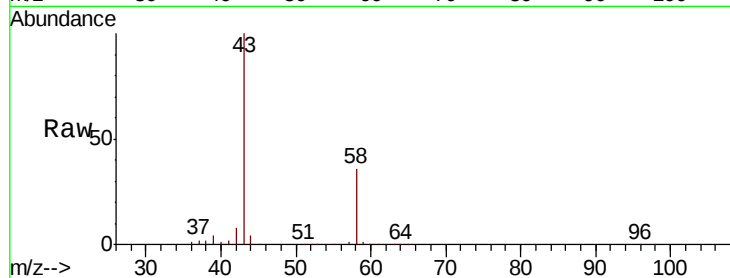
ClientSampleId :

Tot Ion: 43 Resp: 181323

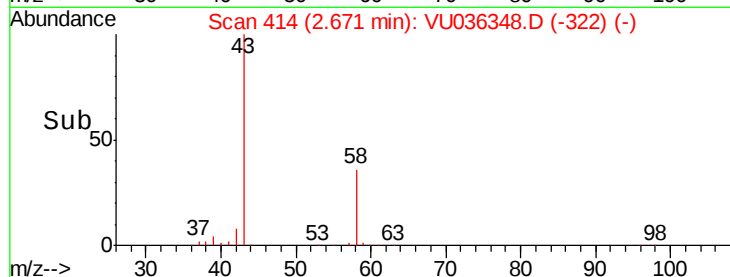
Ion Ratio Lower Upper

43 100

58 34.9 0.0 67.6



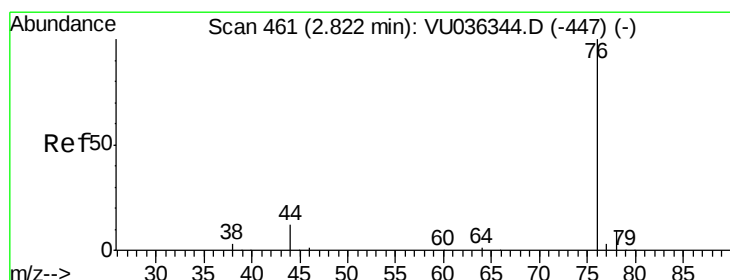
Abundance Ion 43.05 (42.75 to 43.75): VU036348.D (-322) (-)



Ion 58.05 (57.75 to 58.75): VU036348.D (-322) (-)

2.67

Time-->



#14

Carbon disulfide

Concen: 3.693 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036348.D

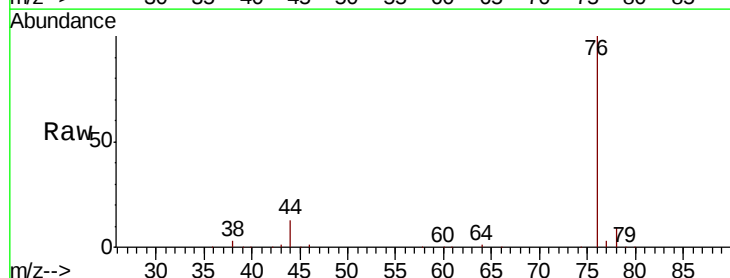
Acq: 26 Dec 2019 16:00

Tgt Ion: 76 Resp: 277419

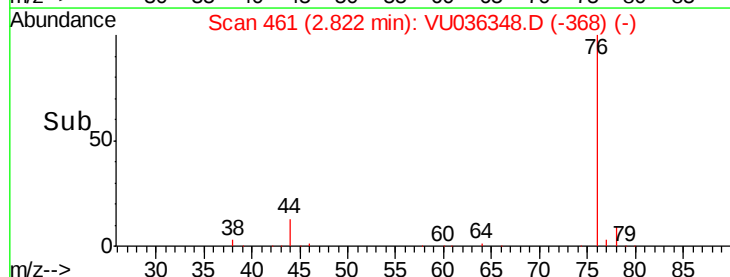
Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7



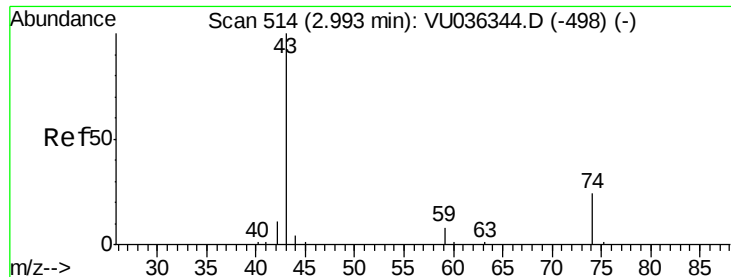
Abundance Ion 76.05 (75.75 to 76.75): VU036348.D (-368) (-)



Ion 78.00 (77.70 to 78.70): VU036348.D (-368) (-)

2.82

Time-->



#15

Methvl Acetate

Concen: 4.605 ug/L

RT: 2.99 min Scan# 514

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

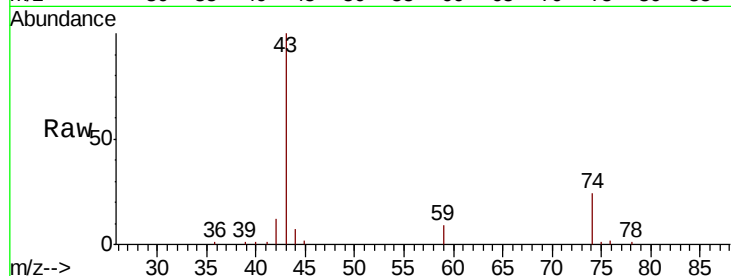
ClientSampleId :

Tot Ion: 43 Resp: 40373

Ion Ratio Lower Upper

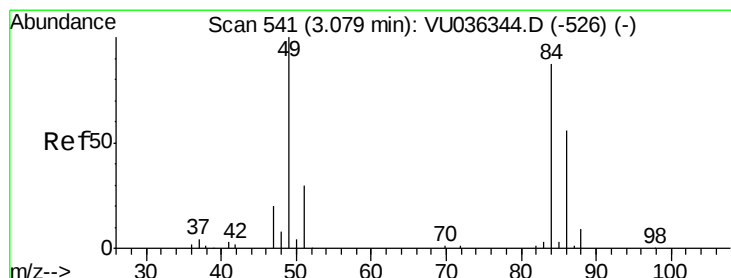
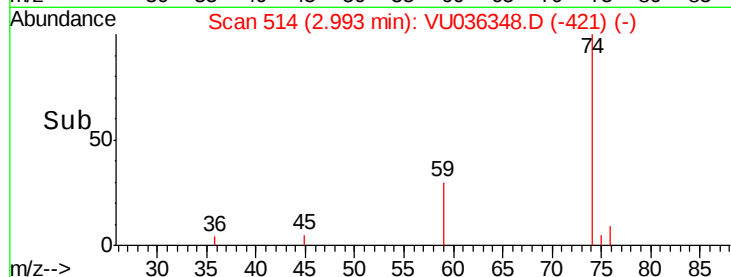
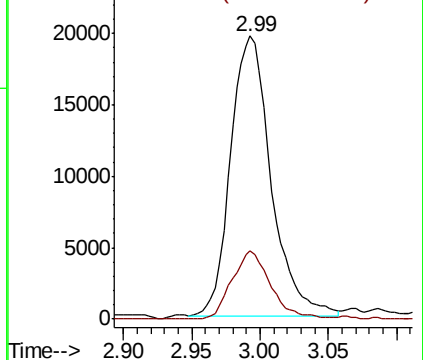
43 100

74 23.3 20.8 31.2



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#16

Methylene chloride

Concen: 3.359 ug/L

RT: 3.08 min Scan# 541

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

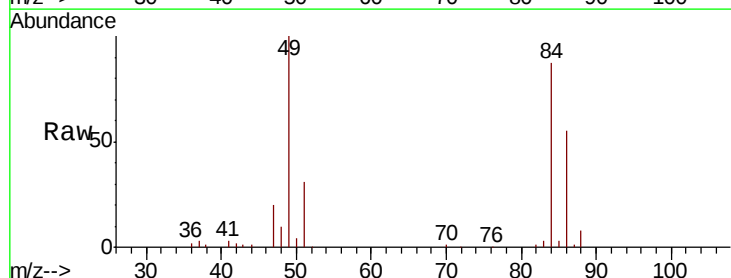
Tgt Ion: 84 Resp: 110558

Ion Ratio Lower Upper

84 100

86 63.2 43.0 79.8

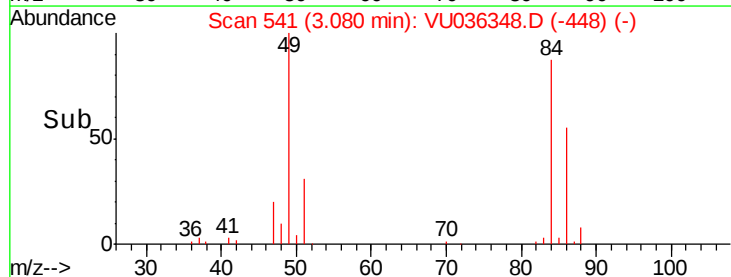
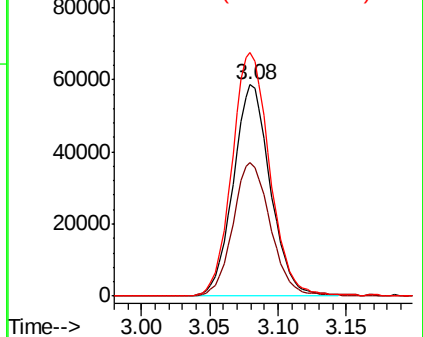
49 115.4 77.3 143.5

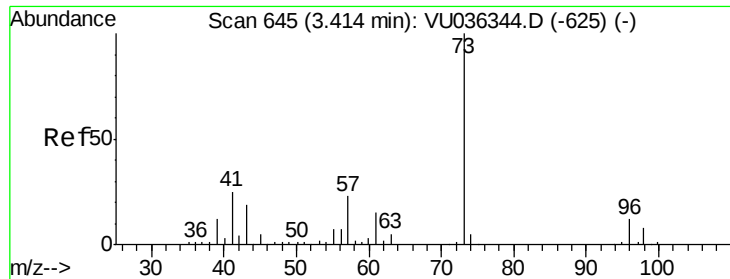


Abundance Ion 84.05 (83.75 to 84.75): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.10 (48.80 to 49.80): VU0

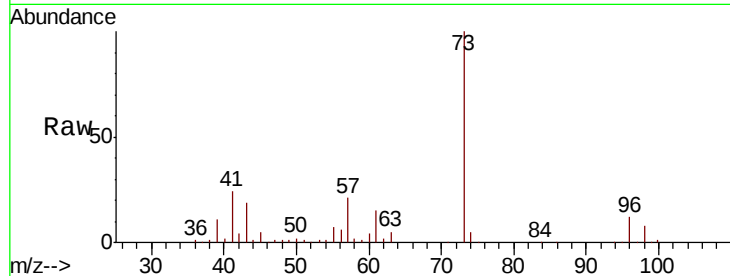




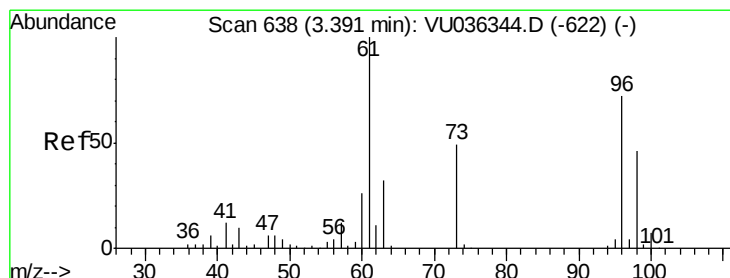
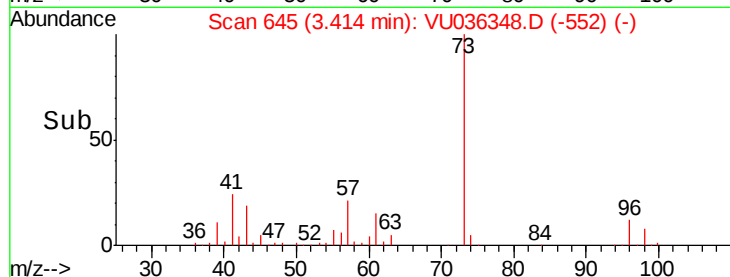
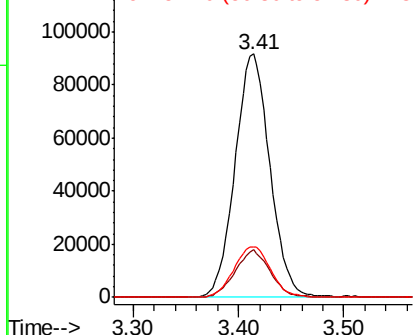
#17
Methvl tert-butvl Ether
Concen: 4.382 ug/L
RT: 3.41 min Scan# 645
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 73 Resp: 210301
Ion Ratio Lower Upper
73 100
43 19.1 15.3 22.9
57 22.0 18.2 27.2

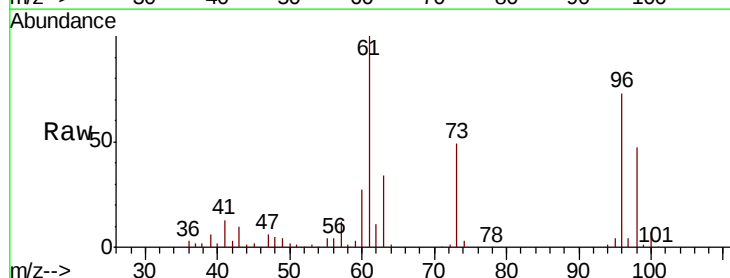


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

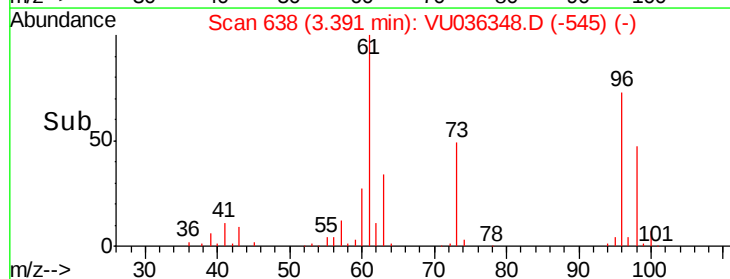
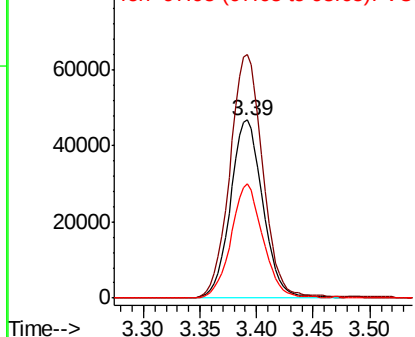


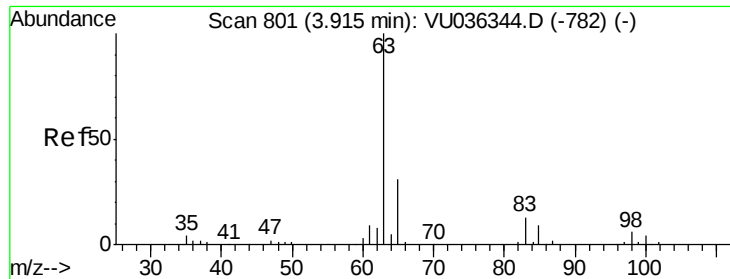
#18
trans-1,2-Dichloroethene
Concen: 3.986 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

Tgt Ion: 96 Resp: 93486
Ion Ratio Lower Upper
96 100
61 136.8 94.8 176.2
98 63.9 46.8 86.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 4.243 ug/L

RT: 3.92 min Scan# 801

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

ClientSampled :

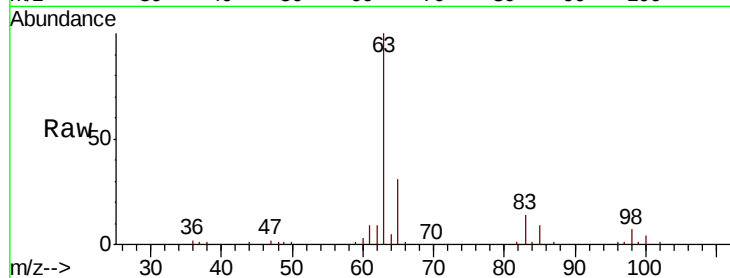
Tot Ion: 63 Resp: 183716

Ion Ratio Lower Upper

63 100

65 31.4 22.6 42.0

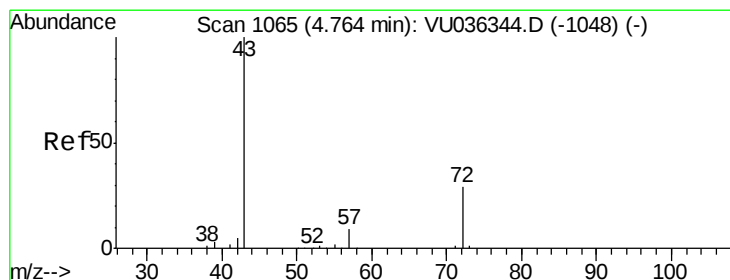
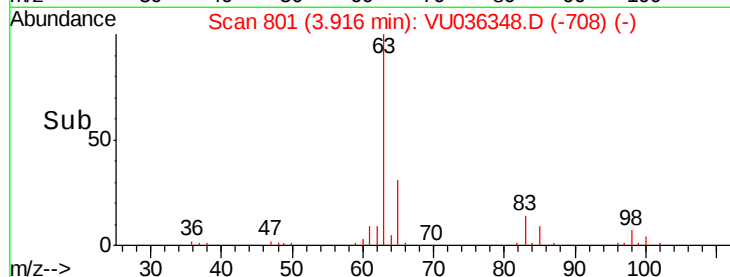
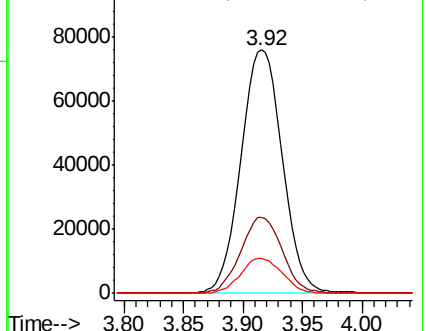
83 14.3 9.7 18.1



Abundance Ion 63.10 (62.80 to 63.80): VU036348.D (-782) (-)

Ion 65.10 (64.80 to 65.80): VU036348.D (-782) (-)

Ion 83.05 (82.75 to 83.75): VU036348.D (-782) (-)



#21

2-Butanone

Concen: 44.737 ug/L

RT: 4.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VU036348.D

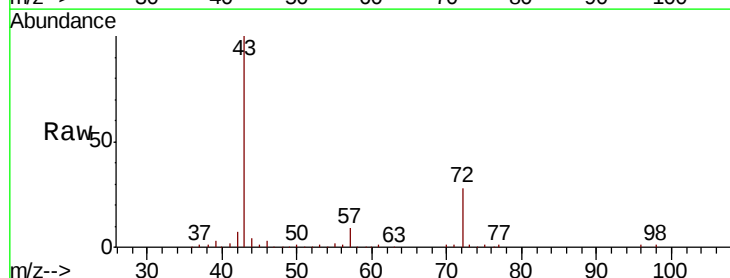
Acq: 26 Dec 2019 16:00

Tgt Ion: 43 Resp: 259427

Ion Ratio Lower Upper

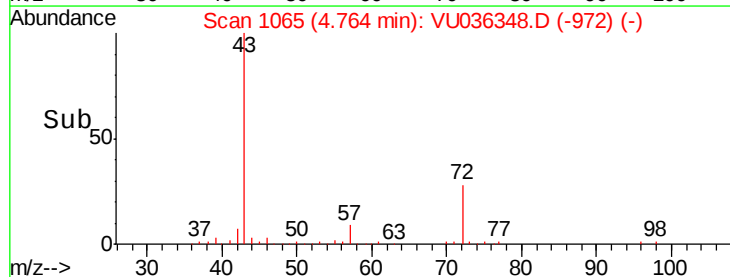
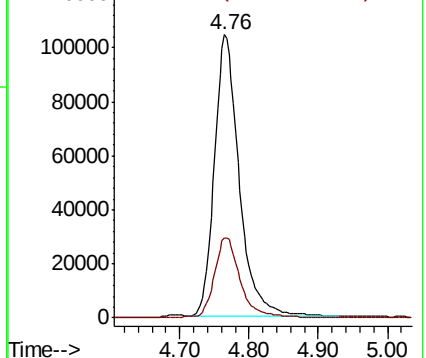
43 100

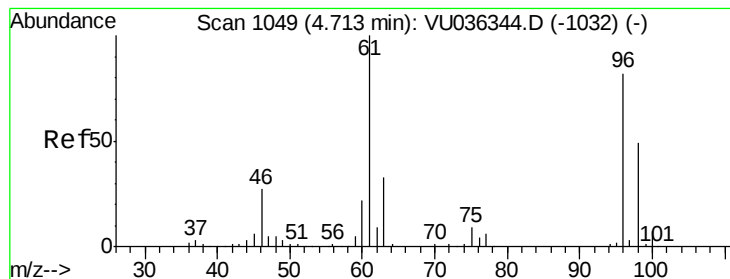
72 28.5 14.4 43.4



Abundance Ion 43.05 (42.75 to 43.75): VU036348.D (-972) (-)

Ion 72.10 (71.80 to 72.80): VU036348.D (-972) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.151 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

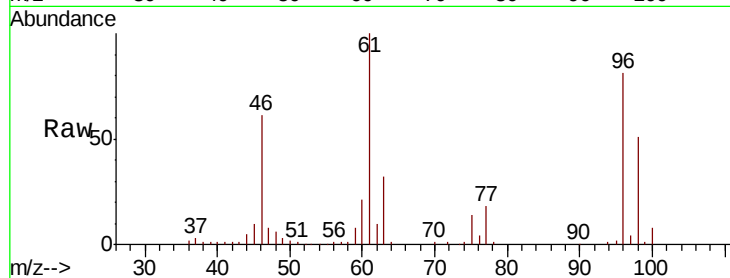
Tot Ion: 96 Resp: 104410

Ion Ratio Lower Upper

96 100

61 123.1 86.7 161.1

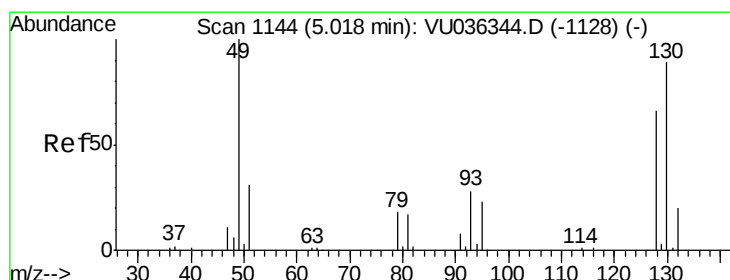
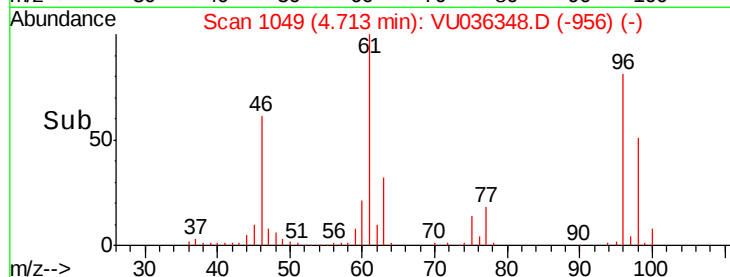
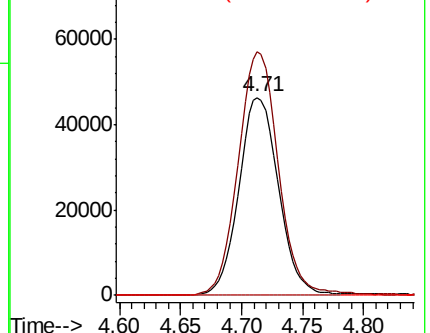
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU036348.D (-956) (-)

Ion 61.05 (60.75 to 61.75): VU036348.D (-956) (-)

Ion 68.15 (67.85 to 68.85): VU036348.D (-956) (-)



#23

Bromochloromethane

Concen: 4.228 ug/L

RT: 5.02 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Tgt Ion:128 Resp: 51460

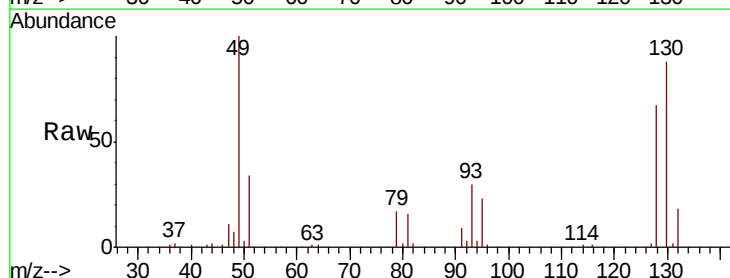
Ion Ratio Lower Upper

128 100

49 149.1 97.6 181.4

130 131.0 85.9 159.5

51 50.0 37.0 55.4

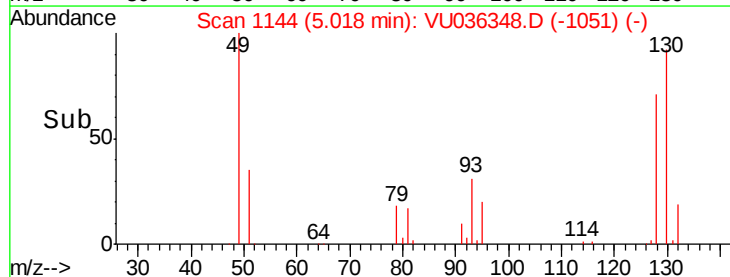
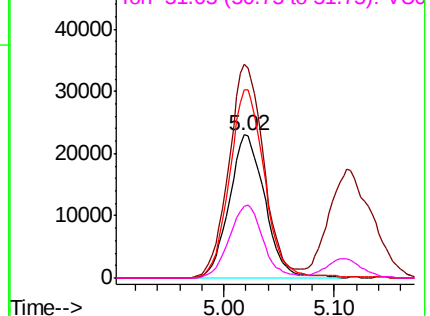


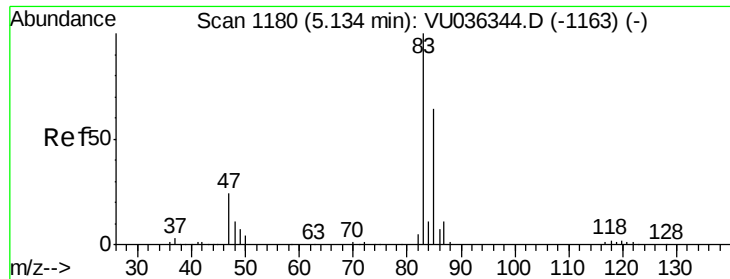
Abundance Ion 127.90 (127.60 to 128.60): VU036348.D (-1051) (-)

Ion 49.10 (48.80 to 49.80): VU036348.D (-1051) (-)

Ion 129.95 (129.65 to 130.65): VU036348.D (-1051) (-)

Ion 51.05 (50.75 to 51.75): VU036348.D (-1051) (-)

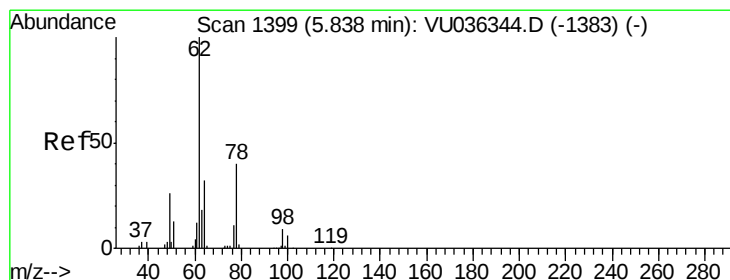
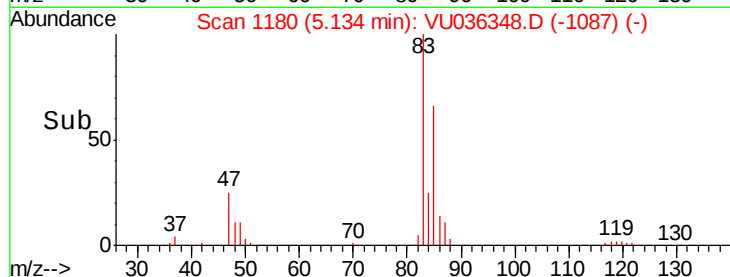
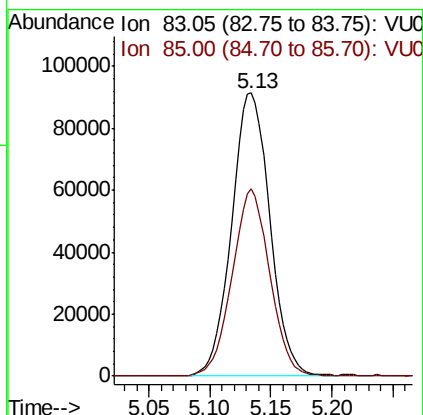
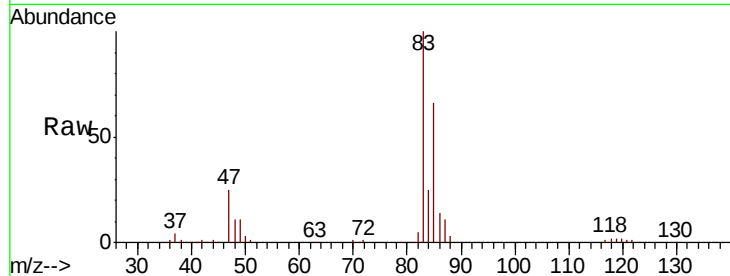




#25
Chloroform
Concen: 4.247 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

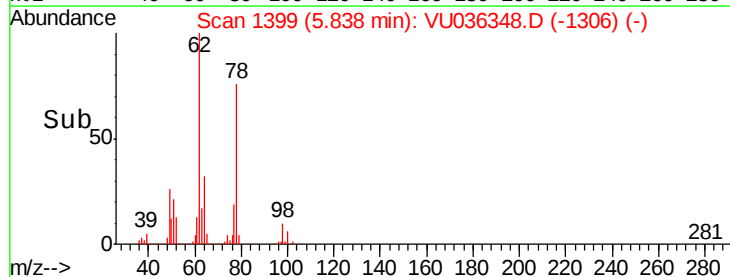
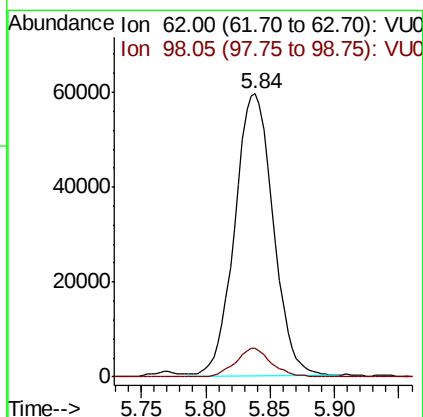
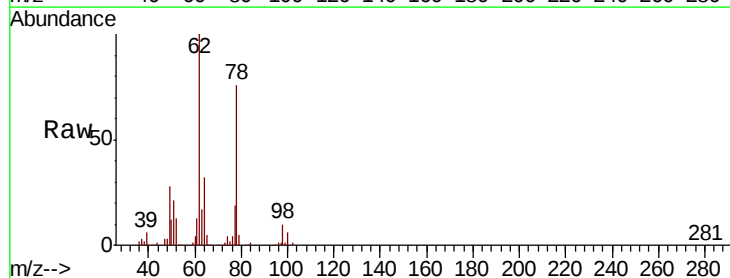
Instrument :
MSVOA_U
ClientSampleId :

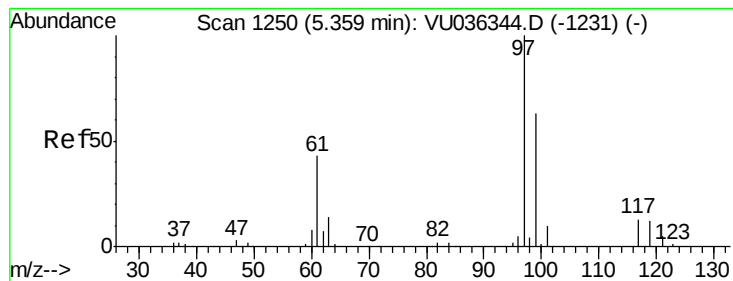
Tot Ion: 83 Resp: 198883
Ion Ratio Lower Upper
83 100
85 66.0 47.5 88.1



#27
1,2-Dichloroethane
Concen: 4.429 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

Tgt Ion: 62 Resp: 123025
Ion Ratio Lower Upper
62 100
98 10.3 7.3 10.9





#29

1,1,1-Trichloroethane

Concen: 4.168 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

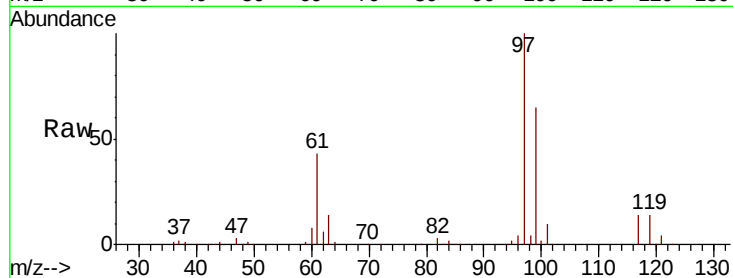
Tot Ion: 97 Resp: 162366

Ion Ratio Lower Upper

97 100

99 65.6 51.4 77.2

61 44.4 35.0 52.6

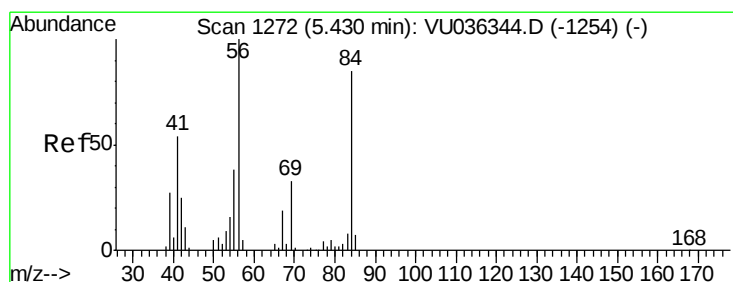
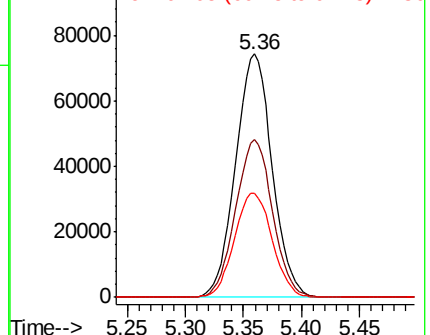
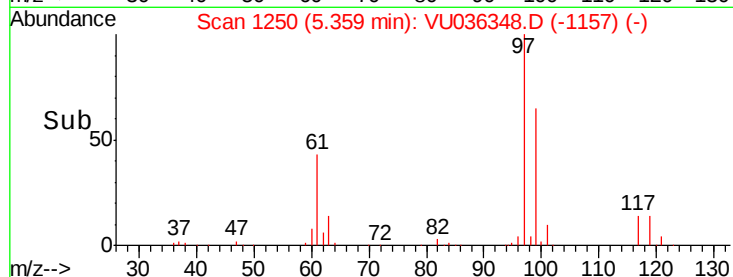


Abundance

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: 3.923 ug/L

RT: 5.43 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

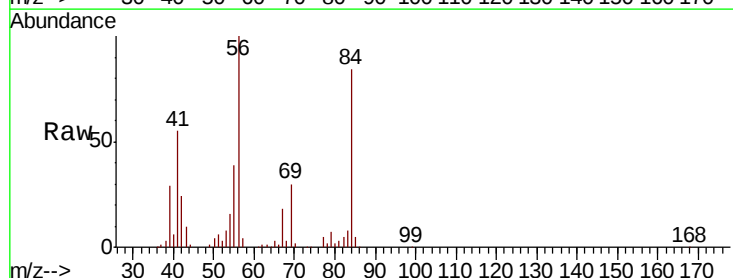
Tgt Ion: 56 Resp: 130001

Ion Ratio Lower Upper

56 100

69 31.0 25.6 38.4

84 86.6 73.0 109.4

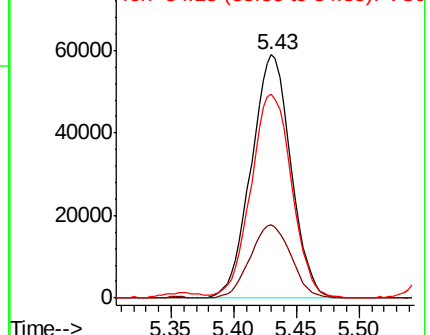
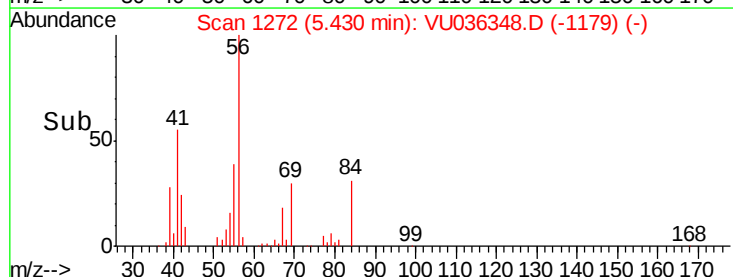


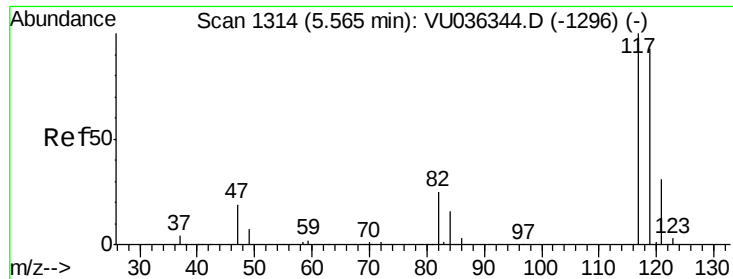
Abundance

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: 4.157 ug/L

RT: 5.56 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

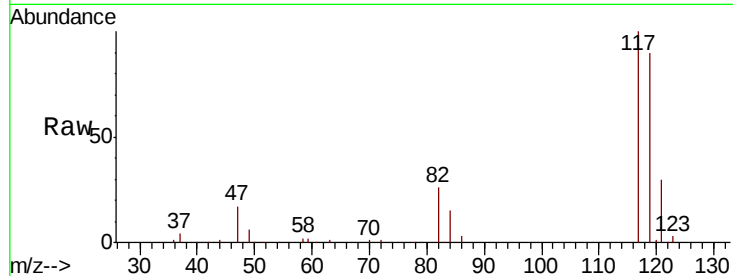
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 147640

Ion Ratio Lower Upper

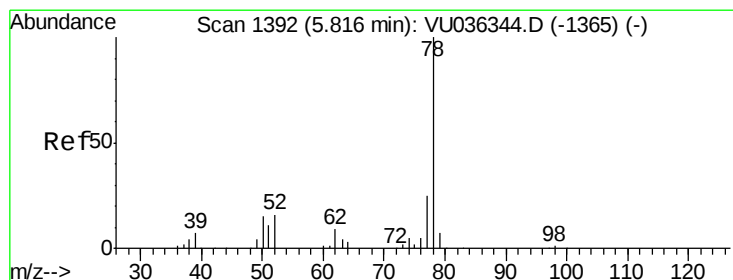
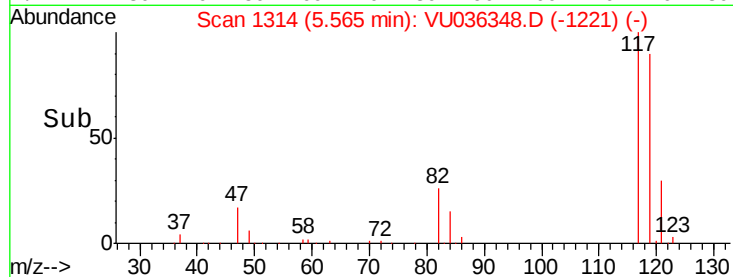
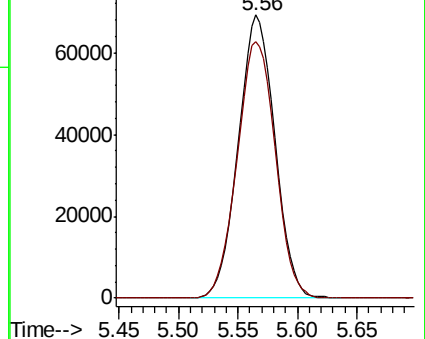
117 100

119 94.5 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.287 ug/L

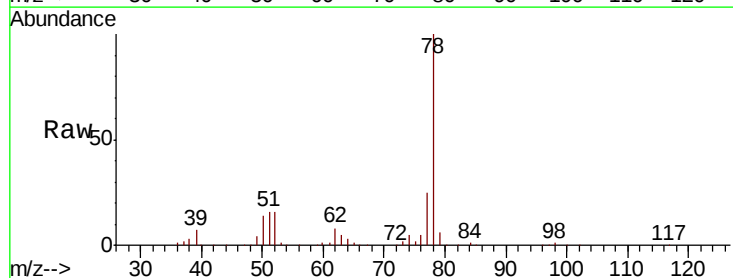
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

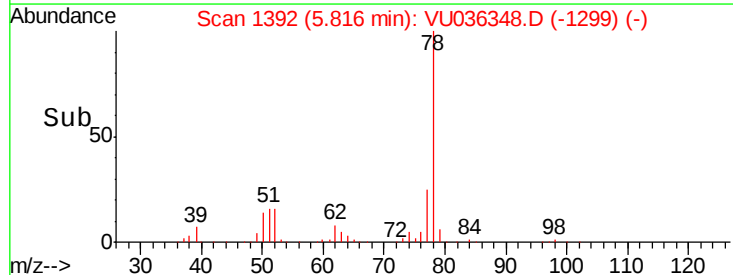
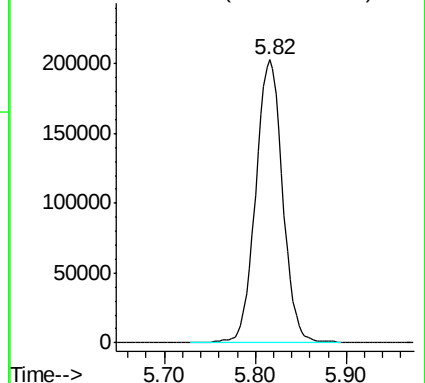
Lab File: VU036348.D

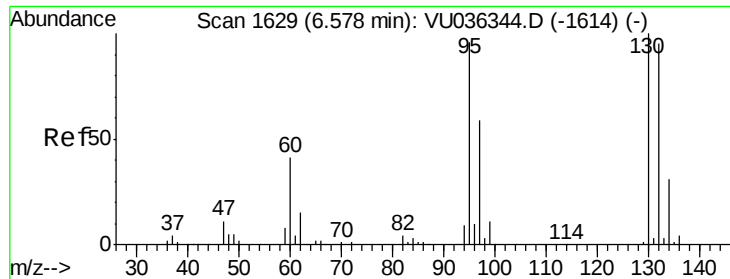
Acq: 26 Dec 2019 16:00

Tgt Ion: 78 Resp: 416876



Abundance Ion 78.10 (77.80 to 78.80): VU0

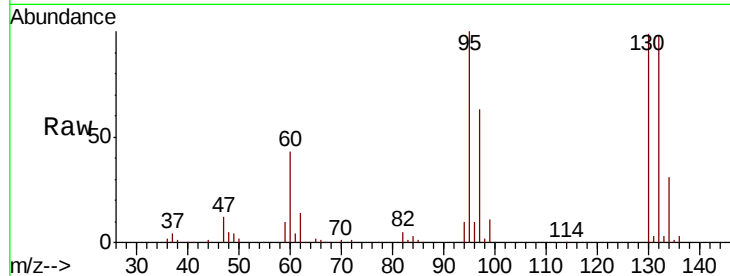




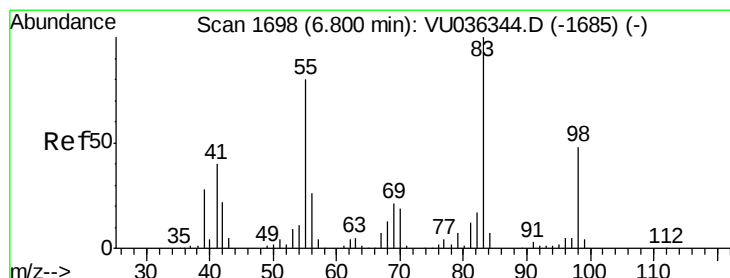
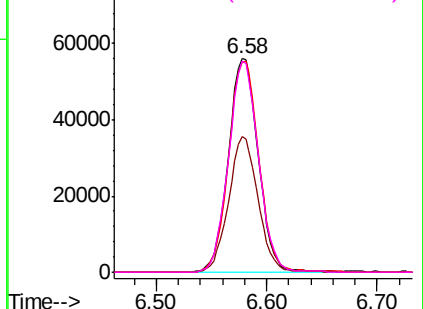
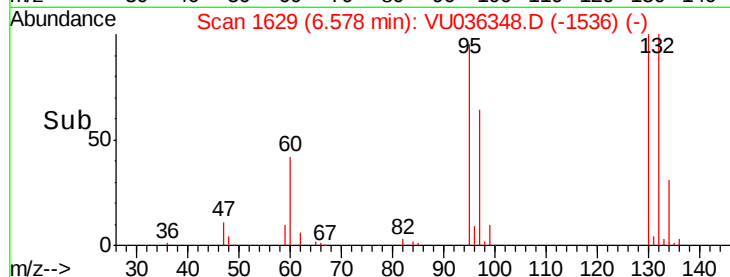
#34
 Trichloroethene
 Concen: 4.212 ug/L
 RT: 6.58 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 105596
 Ion Ratio Lower Upper
 95 100
 97 63.4 43.6 81.0
 132 98.4 69.6 129.2
 130 98.8 70.3 130.7

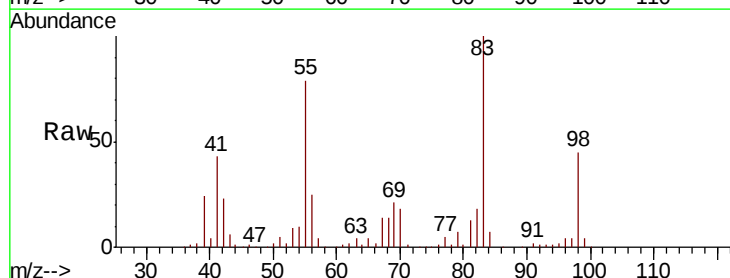


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

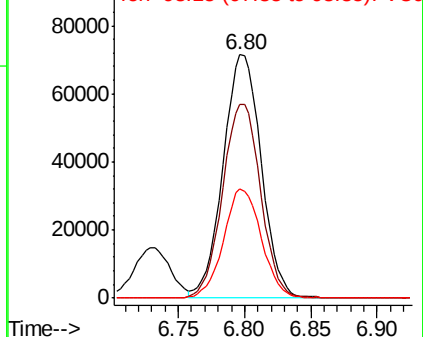
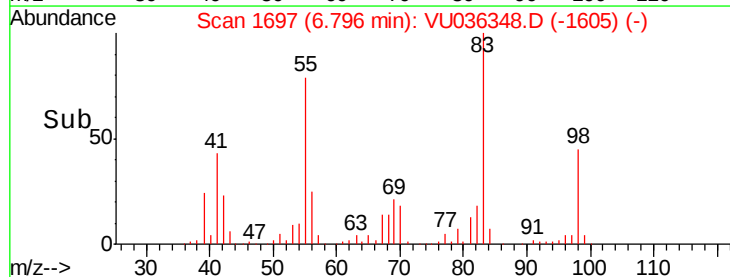


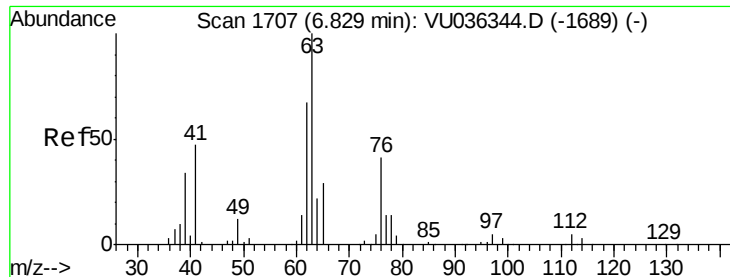
#35
 Methylcyclohexane
 Concen: 3.992 ug/L
 RT: 6.80 min Scan# 1697
 Delta R.T. -0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Tgt Ion: 83 Resp: 142273
 Ion Ratio Lower Upper
 83 100
 55 79.9 62.6 94.0
 98 44.7 36.2 54.2



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0

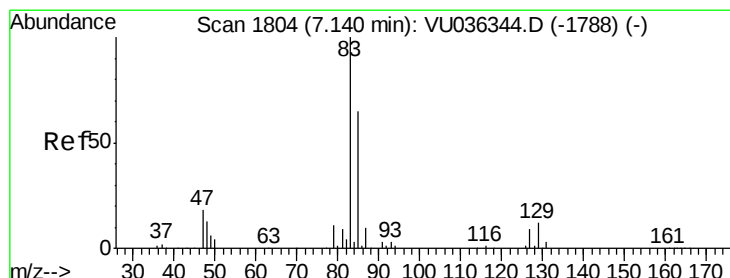
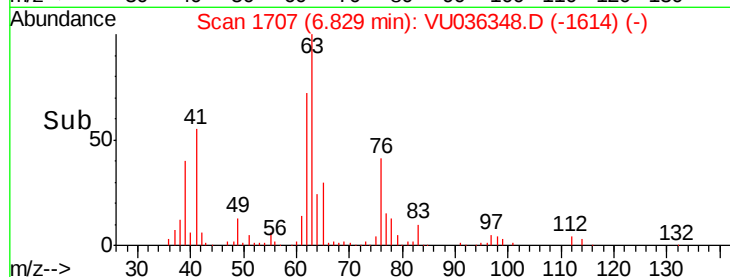
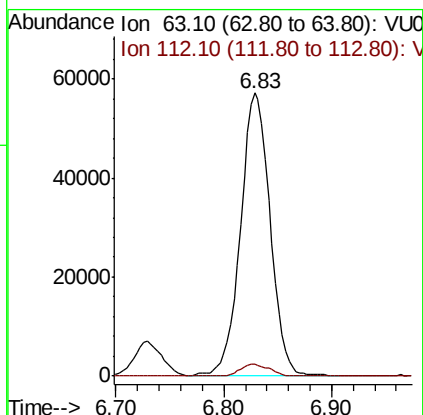
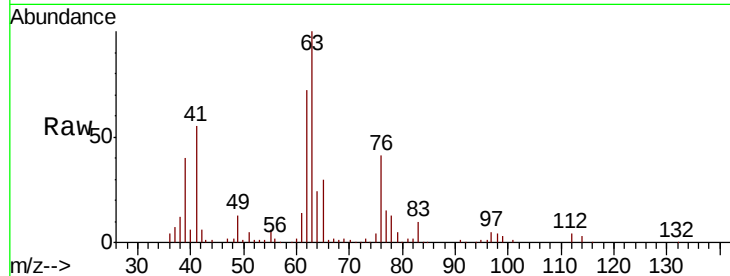




#37
 1,2-Dichloropropane
 Concen: 4.375 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

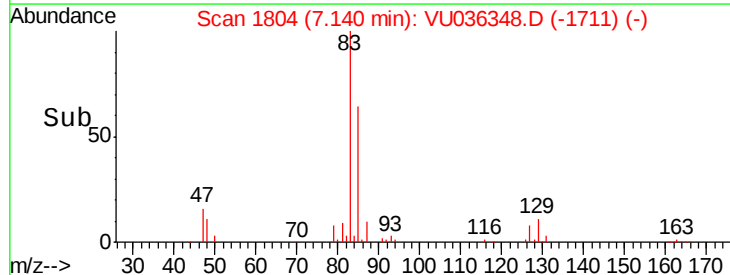
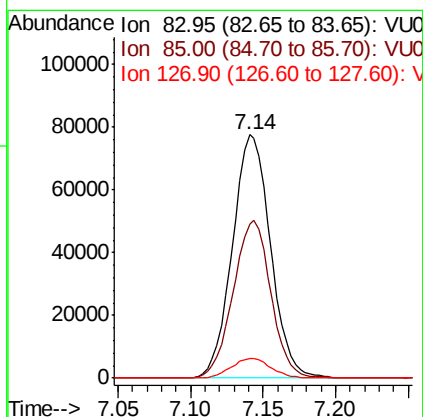
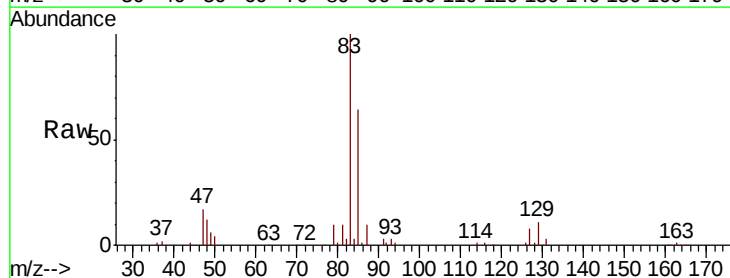
Instrument :
 MSVOA_U
 ClientSampleId :

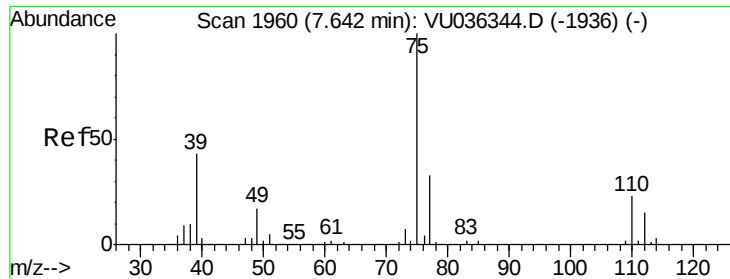
Tot Ion: 63 Resp: 108539
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.8 5.8



#38
 Bromodichloromethane
 Concen: 4.372 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Tgt Ion: 83 Resp: 141173
 Ion Ratio Lower Upper
 83 100
 85 63.5 45.6 84.6
 127 8.2 7.1 10.7

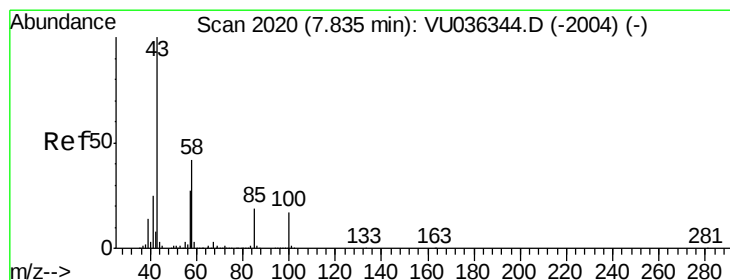
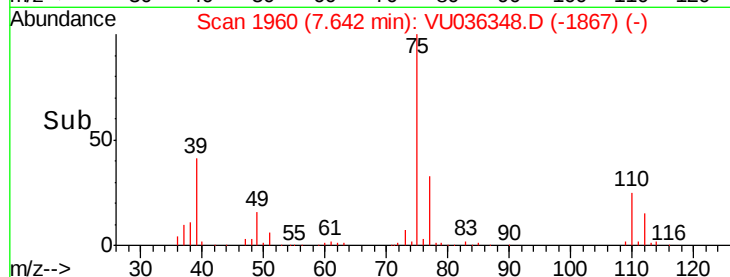
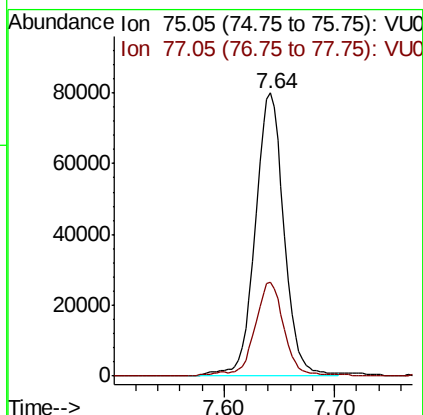
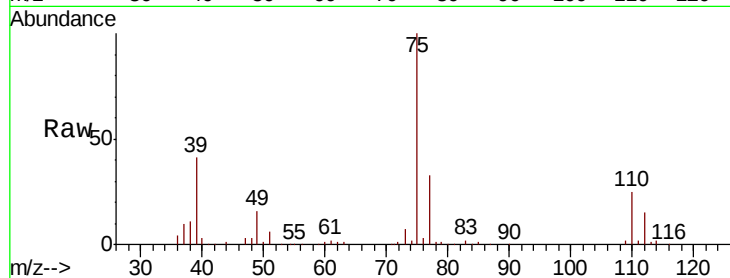




#39
 cis-1,3-Dichloropropene
 Concen: 4.271 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

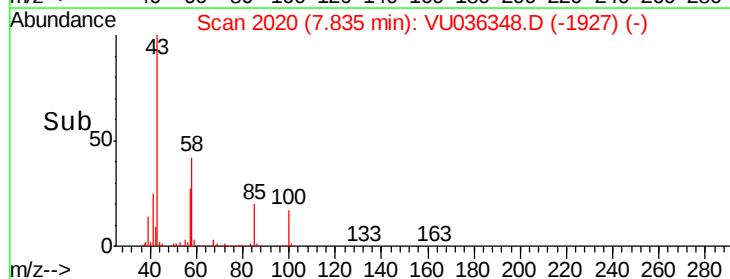
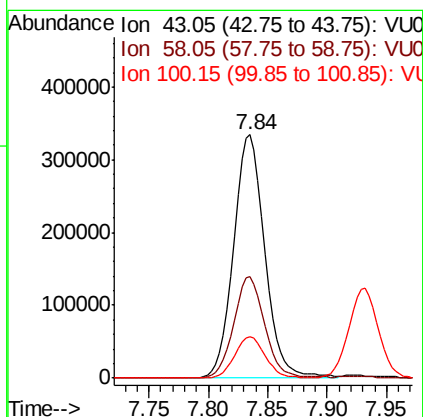
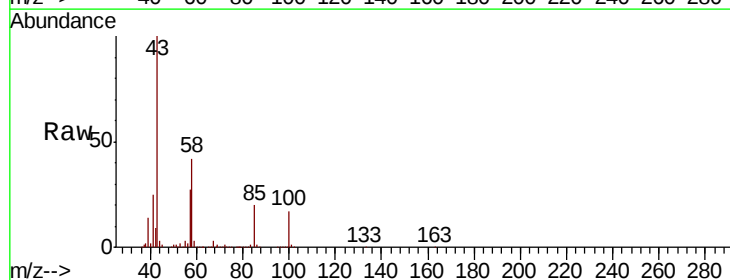
Instrument :
 MSVOA_U
 ClientSampleId :

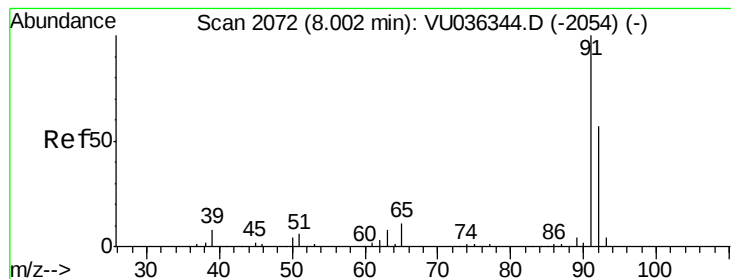
Tot Ion: 75 Resp: 144359
 Ion Ratio Lower Upper
 75 100
 77 33.0 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 46.843 ug/L
 RT: 7.84 min Scan# 2020
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Tgt Ion: 43 Resp: 607848
 Ion Ratio Lower Upper
 43 100
 58 41.6 33.3 49.9
 100 16.7 13.7 20.5





#42

Toluene

Concen: 4.283 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

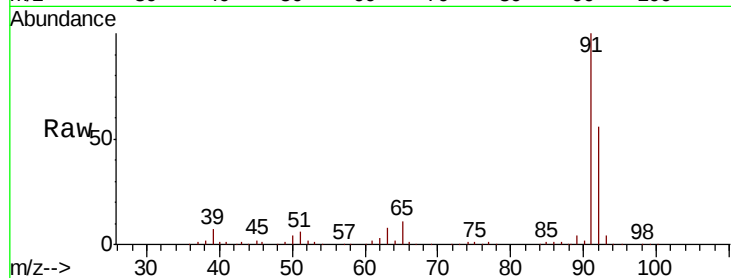
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 91 Resp: 446376

Ion Ratio Lower Upper

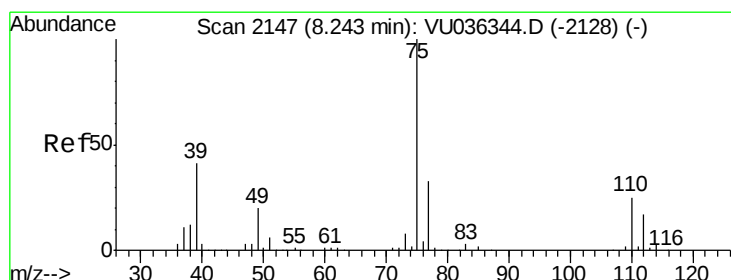
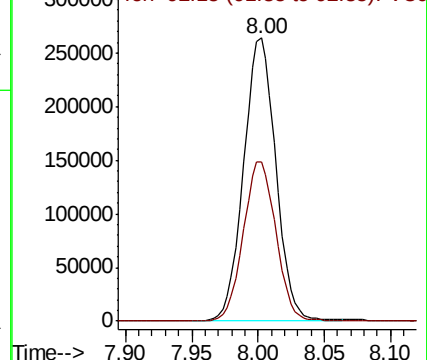
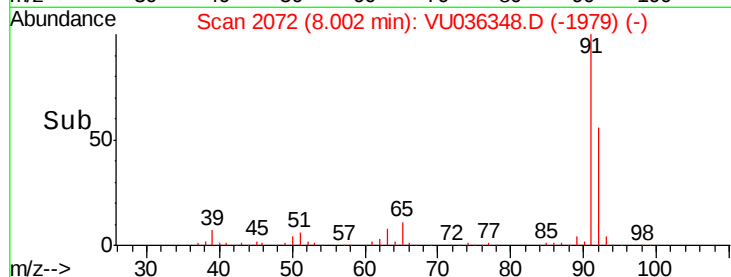
91 100

92 56.1 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU036348.D (-1979) (-)

Ion 92.15 (91.85 to 92.85): VU036348.D (-1979) (-)



#44

trans-1,3-Dichloropropene

Concen: 4.458 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036348.D

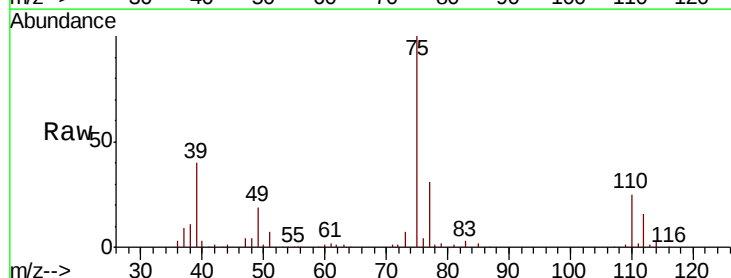
Acq: 26 Dec 2019 16:00

Tgt Ion: 75 Resp: 126569

Ion Ratio Lower Upper

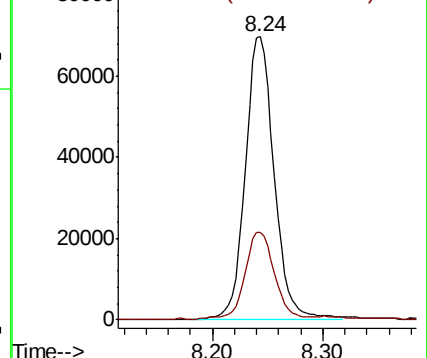
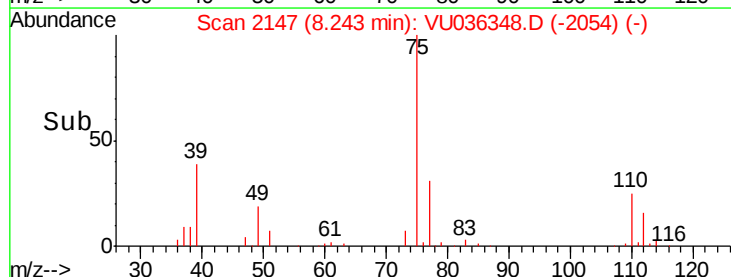
75 100

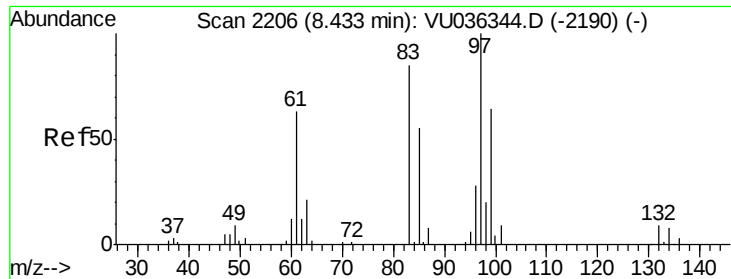
77 31.1 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU036348.D (-2054) (-)

Ion 77.05 (76.75 to 77.75): VU036348.D (-2054) (-)

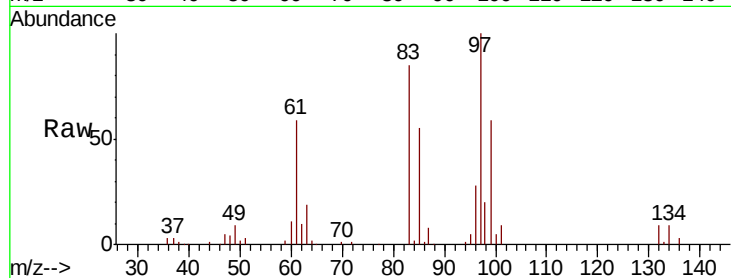




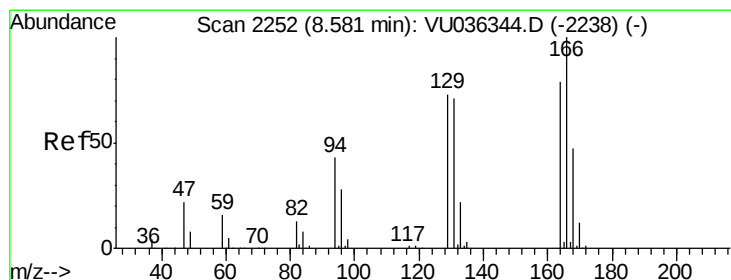
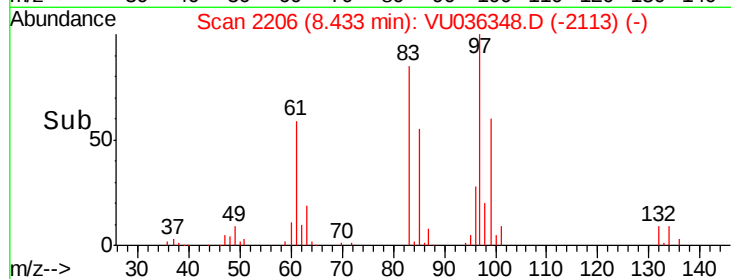
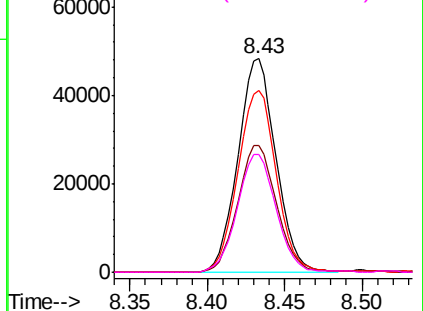
#45
 1,1,2-Trichloroethane
 Concen: 4.431 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:	97	Resp:	82359
Ion	Ratio	Lower	Upper
97	100		
99	59.4	46.1	85.5
83	85.3	65.9	122.3
85	54.9	43.1	80.1

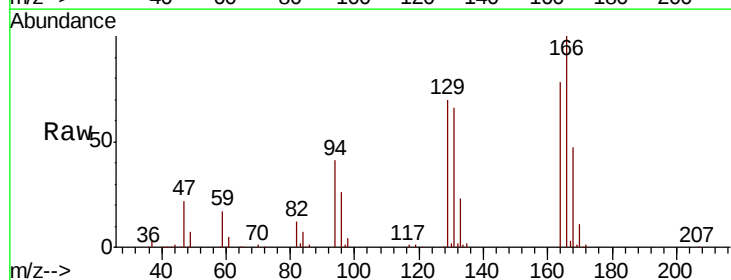


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

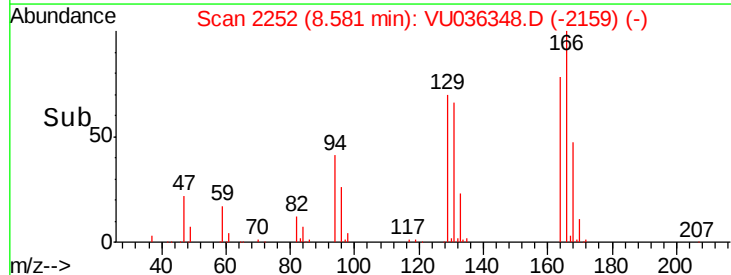
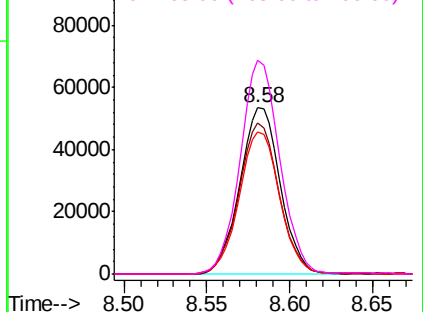


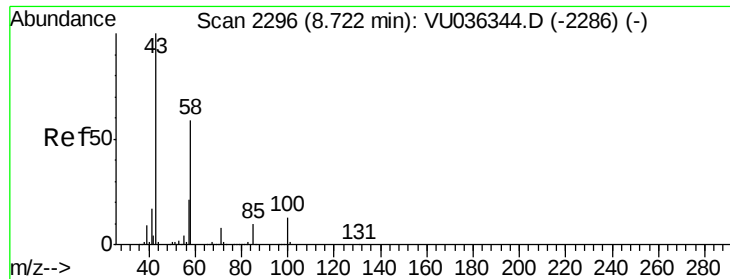
#47
 Tetrachloroethene
 Concen: 3.996 ug/L
 RT: 8.58 min Scan# 2252
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Tgt Ion:	164	Resp:	90468
Ion	Ratio	Lower	Upper
164	100		
129	90.5	64.2	119.2
131	85.2	66.6	123.8
166	128.5	93.1	172.9



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

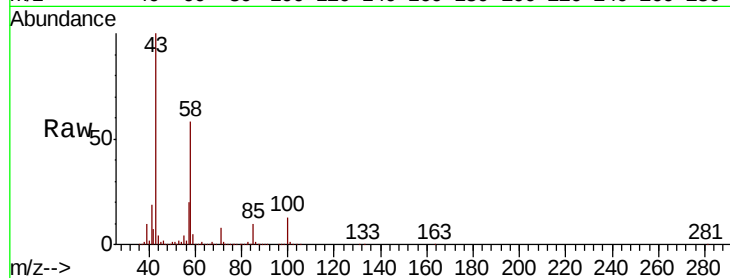




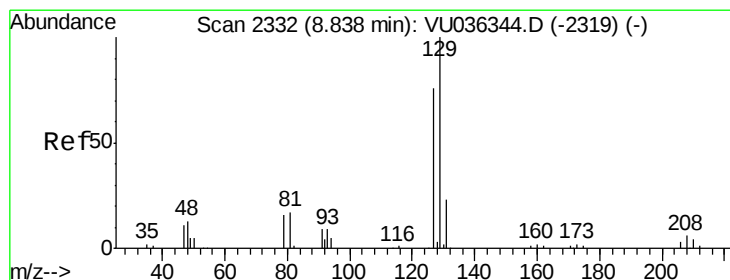
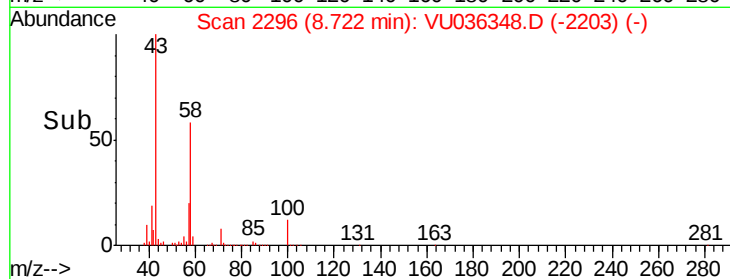
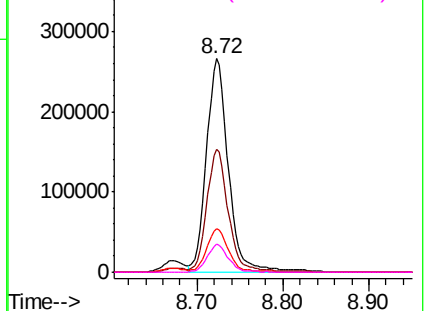
#48
2-Hexanone
Concen: 49.213 ug/L
RT: 8.72 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 476585
Ion Ratio Lower Upper
43 100
58 57.3 46.2 69.2
57 20.4 16.2 24.4
100 12.7 10.2 15.4

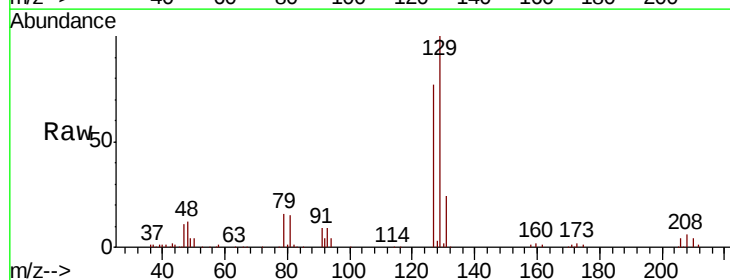


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

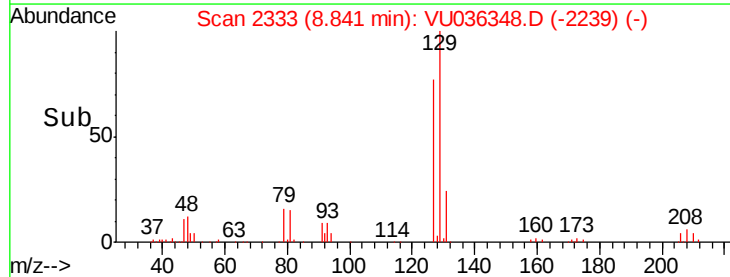
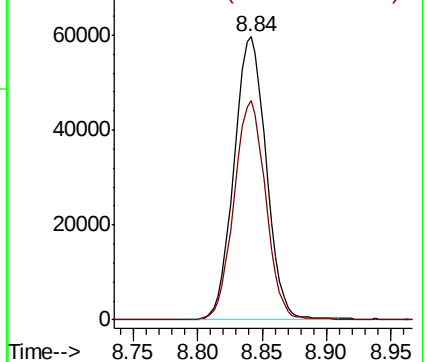


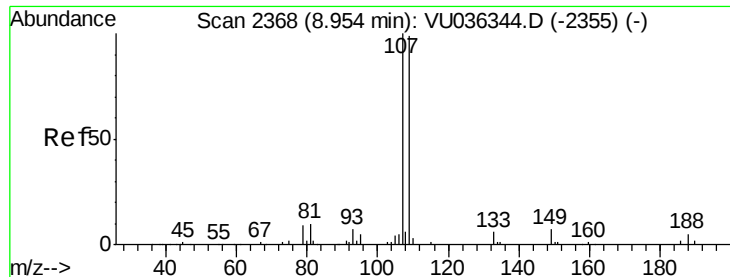
#49
Dibromochloromethane
Concen: 4.521 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

Tgt Ion: 129 Resp: 103872
Ion Ratio Lower Upper
129 100
127 77.3 52.6 97.6



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

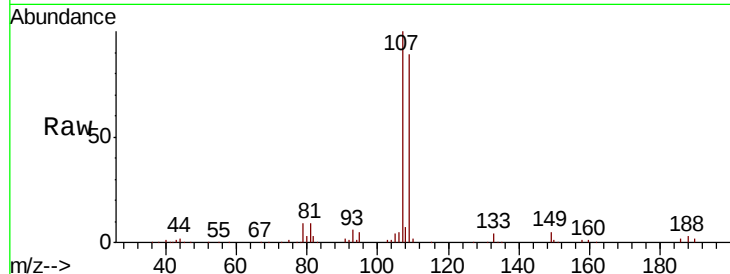




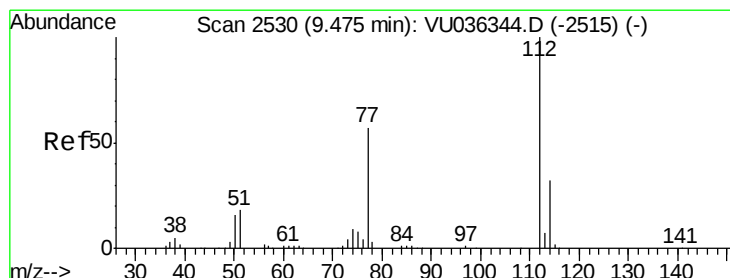
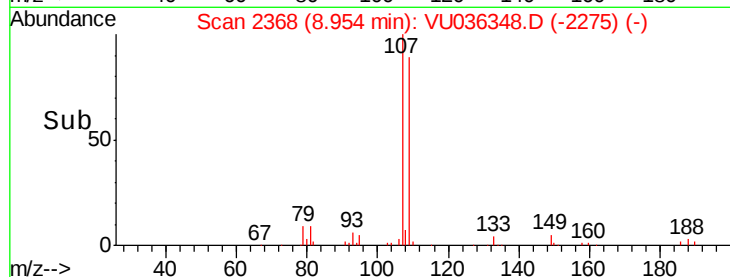
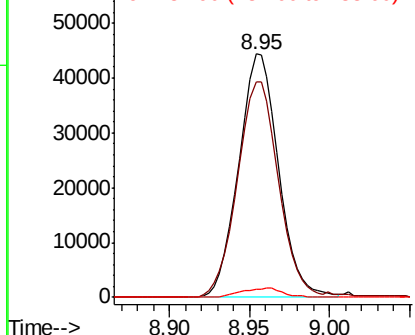
#50
 1,2-Dibromoethane
 Concen: 4.244 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion:107 Resp: 75242
 Ion Ratio Lower Upper
 107 100
 109 88.6 67.5 125.4
 188 3.2 3.1 4.7

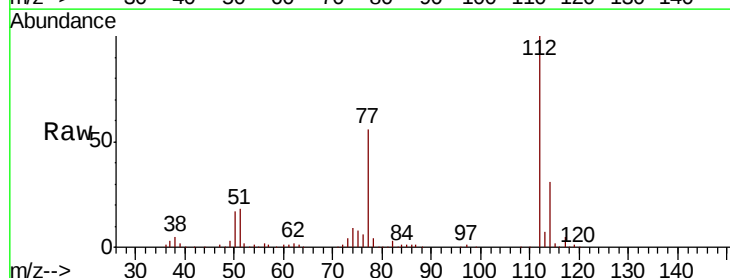


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

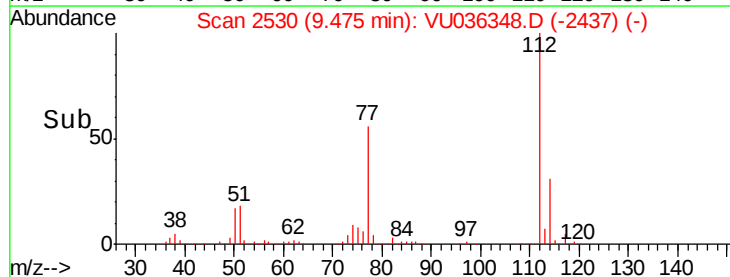
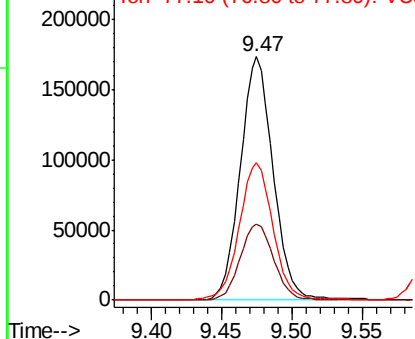


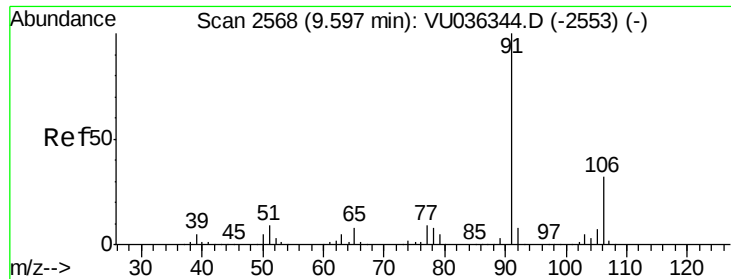
#51
 Chlorobenzene
 Concen: 4.108 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Tgt Ion:112 Resp: 282747
 Ion Ratio Lower Upper
 112 100
 114 31.3 23.2 43.2
 77 56.2 46.5 69.7



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

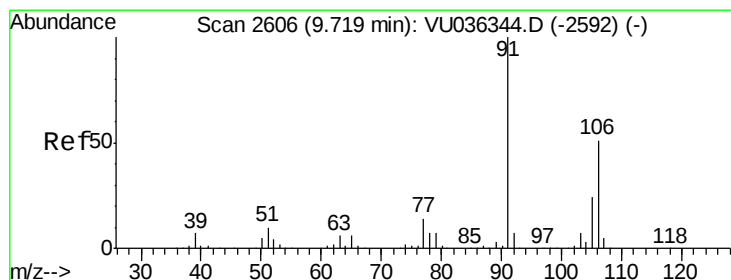
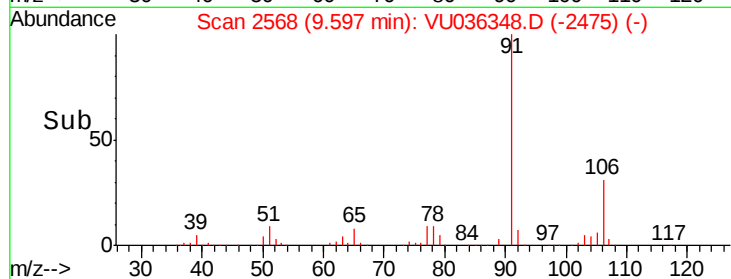
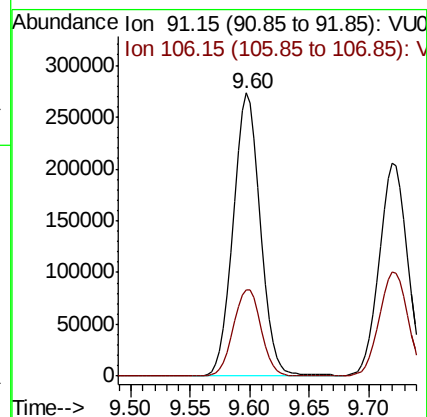
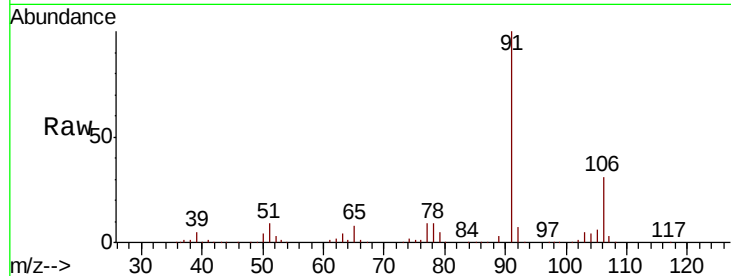




#52
Ethylbenzene
Concen: 4.139 ug/L
RT: 9.60 min Scan# 2568
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

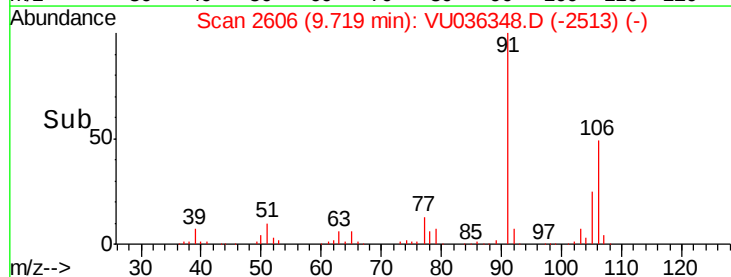
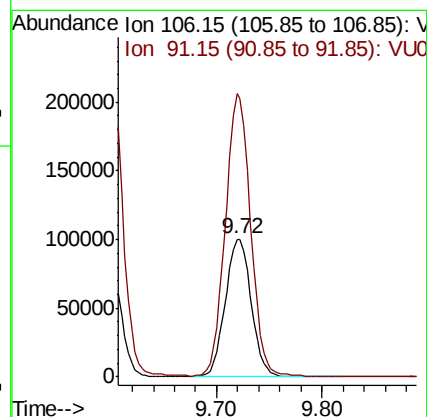
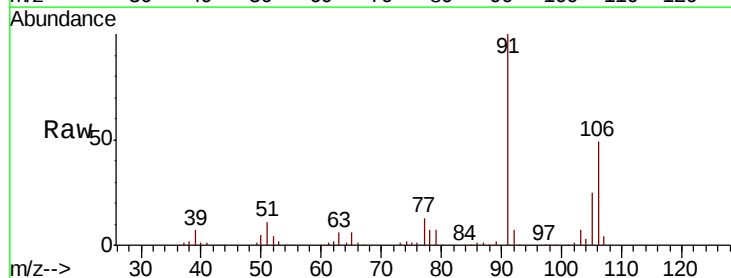
Instrument :
MSVOA_U
ClientSampled :

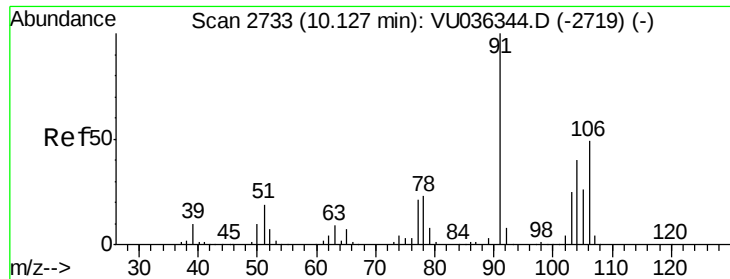
Tot Ion: 91 Resp: 433300
Ion Ratio Lower Upper
91 100
106 30.6 22.0 41.0



#53
m,p-Xylene
Concen: 4.240 ug/L
RT: 9.72 min Scan# 2606
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

Tgt Ion: 106 Resp: 171004
Ion Ratio Lower Upper
106 100
91 206.0 138.7 257.7

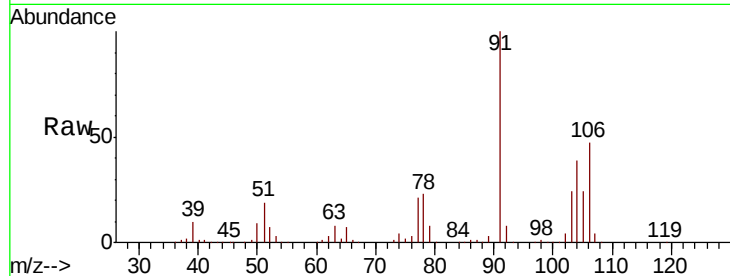




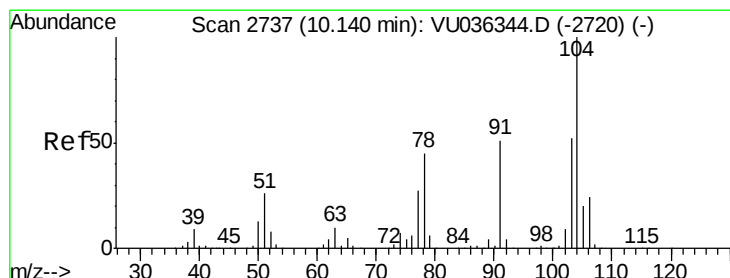
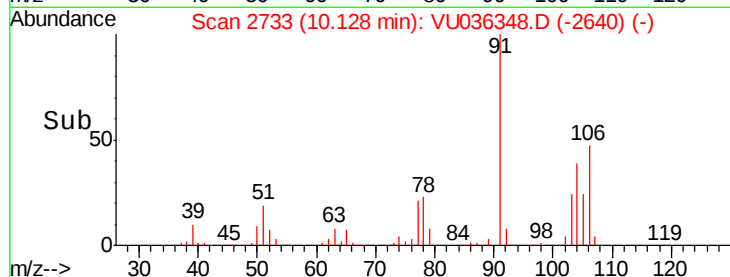
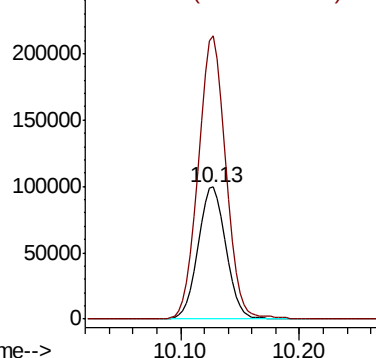
#54
o-Xylene
Concen: 4.149 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:106 Resp: 161410
Ion Ratio Lower Upper
106 100
91 214.2 152.8 283.8

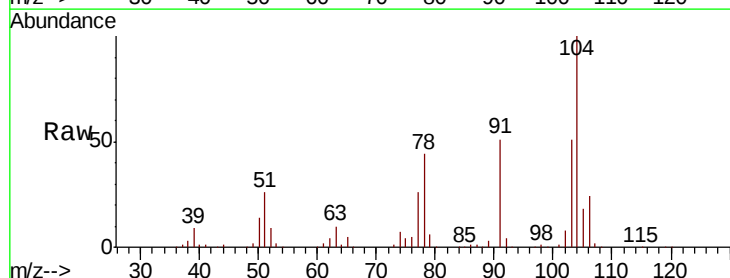


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

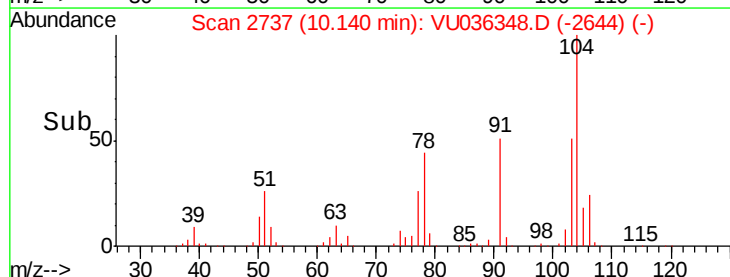
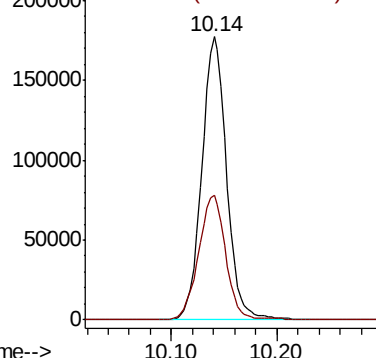


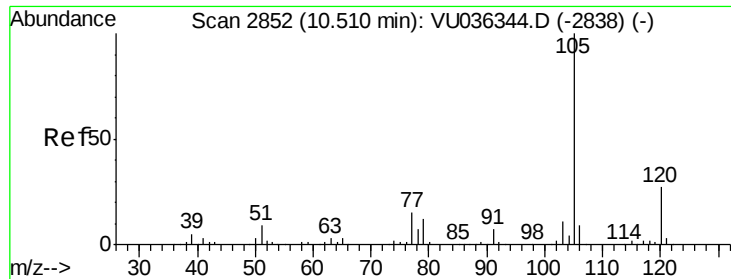
#55
Styrene
Concen: 4.183 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. 0.00 min
Lab File: VU036348.D
Acq: 26 Dec 2019 16:00

Tgt Ion:104 Resp: 287962
Ion Ratio Lower Upper
104 100
78 43.9 32.1 59.5



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





#56

Isopropylbenzene

Concen: 4.205 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

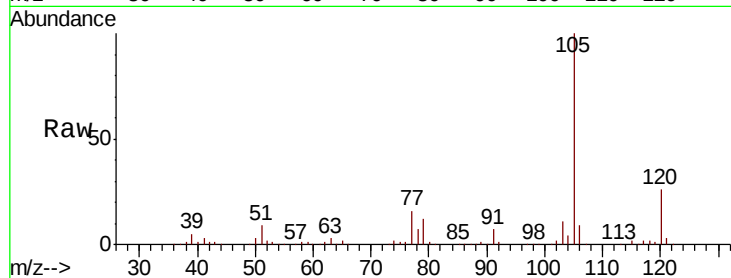
Tot Ion:105 Resp: 420142

Ion Ratio Lower Upper

105 100

120 26.6 21.0 31.6

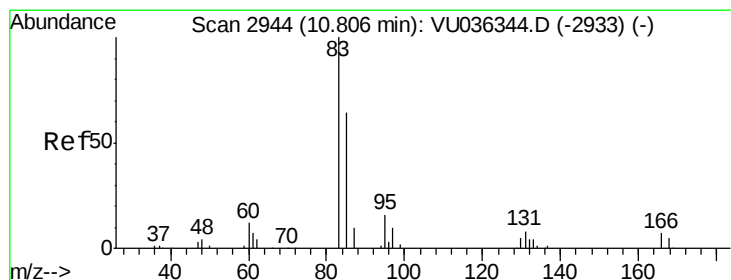
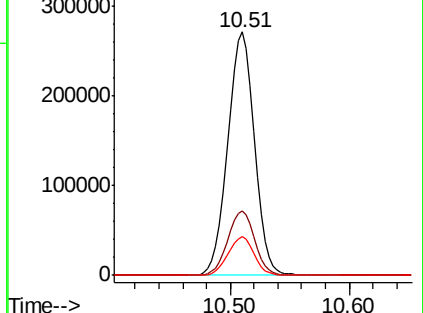
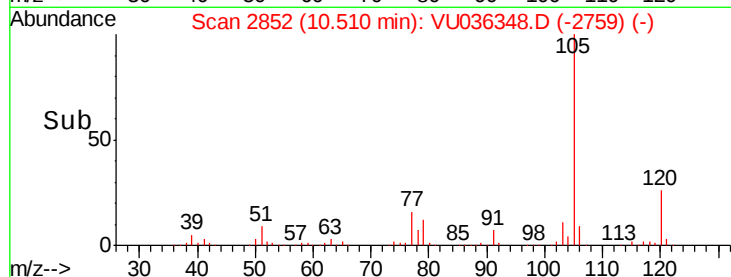
77 15.7 12.5 18.7



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: 4.508 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

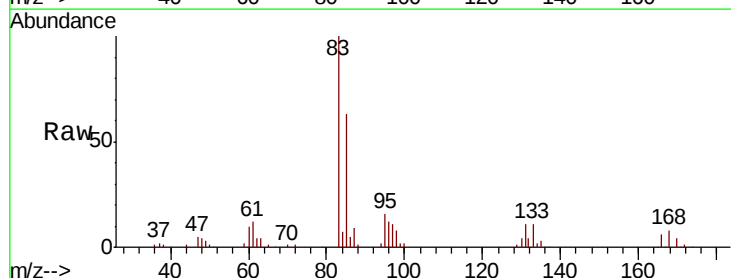
Tgt Ion: 83 Resp: 106688

Ion Ratio Lower Upper

83 100

85 62.9 45.6 84.8

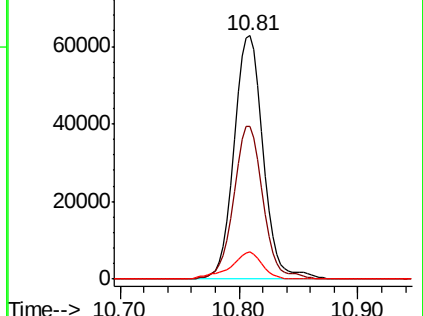
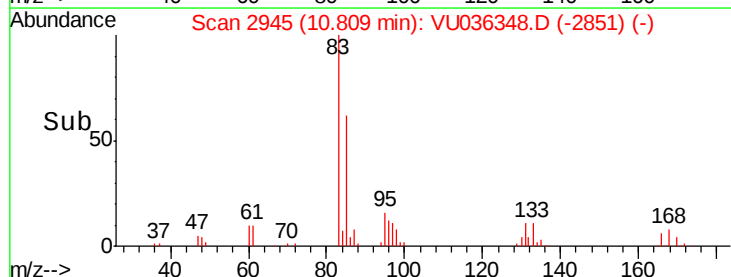
131 11.0 8.5 12.7

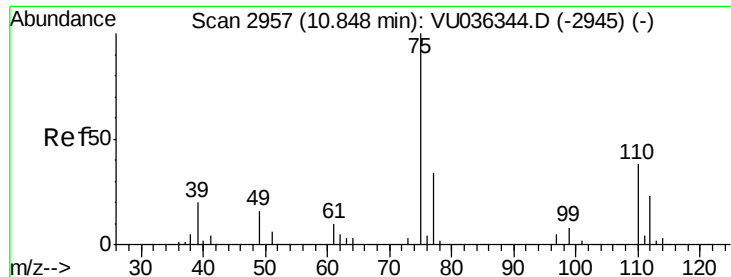


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.379 ug/L

RT: 10.85 min Scan# 2957

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

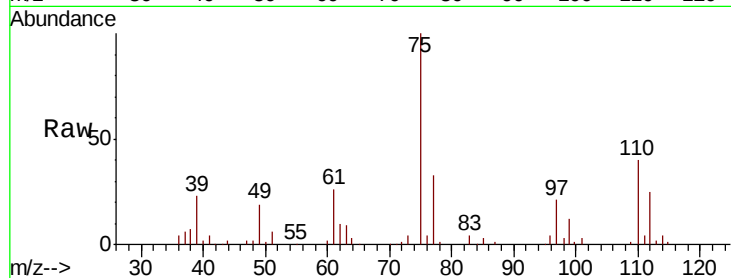
ClientSampleId :

Tot Ion: 75 Resp: 72197

Ion Ratio Lower Upper

75 100

77 34.0 27.2 40.8



Abundance Ion 75.00 (74.70 to 75.70): VU036344.D (-2945) (-)

Ion 77.00 (76.70 to 77.70): VU036344.D (-2945) (-)

10.85

40000

30000

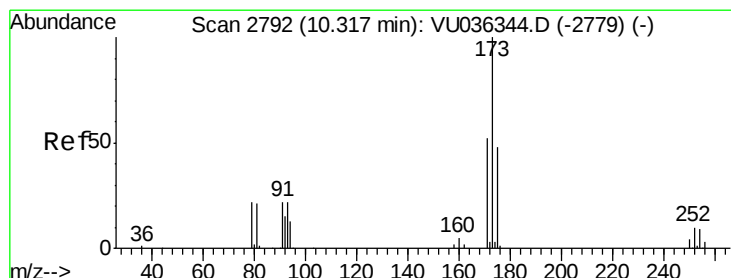
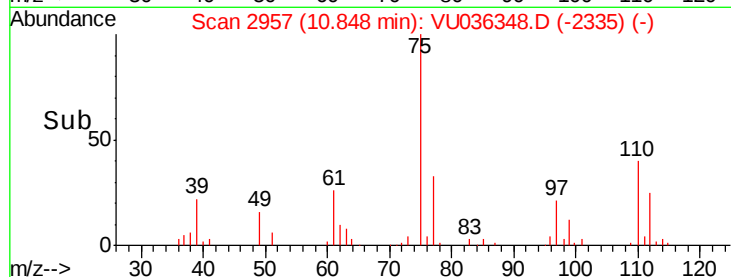
20000

10000

0

Time-->

10.80 10.85 10.90



#61

Bromoform

Concen: 4.075 ug/L

RT: 10.32 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

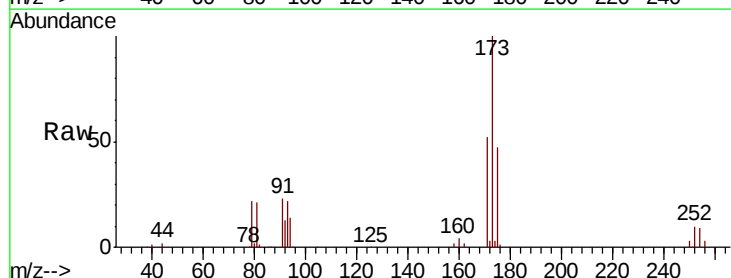
Tgt Ion: 173 Resp: 60802

Ion Ratio Lower Upper

173 100

175 49.1 39.2 58.8

254 9.4 7.8 11.6



Abundance Ion 172.90 (172.60 to 173.60): VU036344.D (-2779) (-)

Ion 174.90 (174.60 to 175.60): VU036344.D (-2779) (-)

Ion 253.75 (253.45 to 254.45): VU036344.D (-2779) (-)

10.32

40000

30000

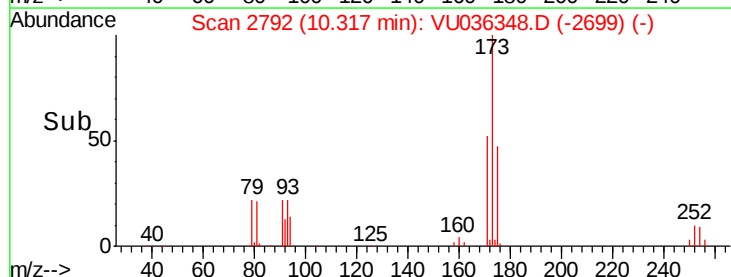
20000

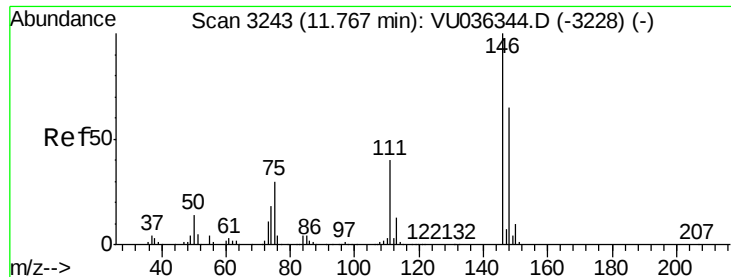
10000

0

Time-->

10.30 10.32 10.34





#62

1,3-Dichlorobenzene

Concen: 4.062 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

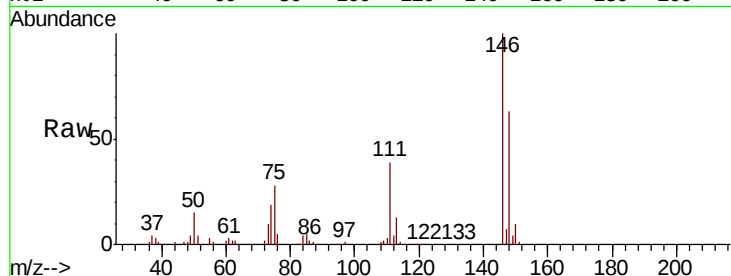
Tot Ion:146 Resp: 235546

Ion Ratio Lower Upper

146 100

111 38.7 26.3 48.9

148 62.8 45.1 83.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

200000

150000

100000

50000

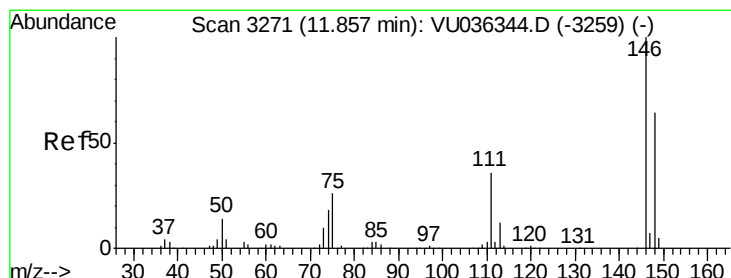
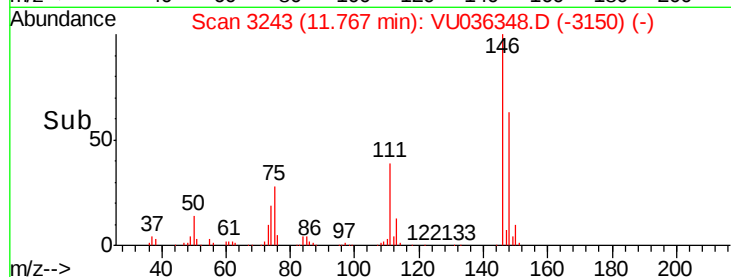
0

11.77

11.75

11.80

Time-->



#63

1,4-Dichlorobenzene

Concen: 4.035 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

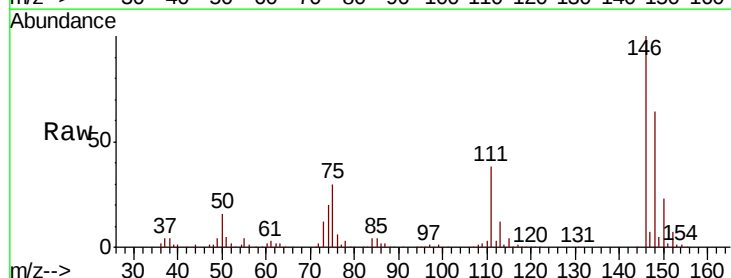
Tgt Ion:146 Resp: 232070

Ion Ratio Lower Upper

146 100

111 37.8 25.8 48.0

148 64.2 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

200000

150000

100000

50000

0

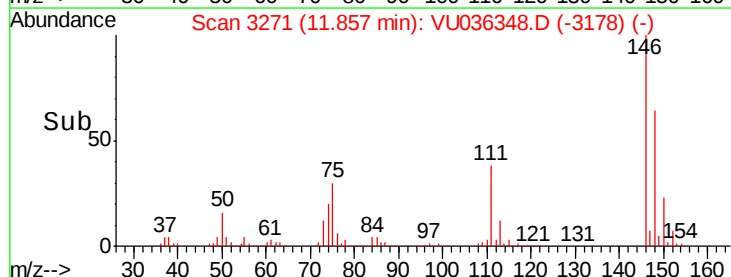
11.86

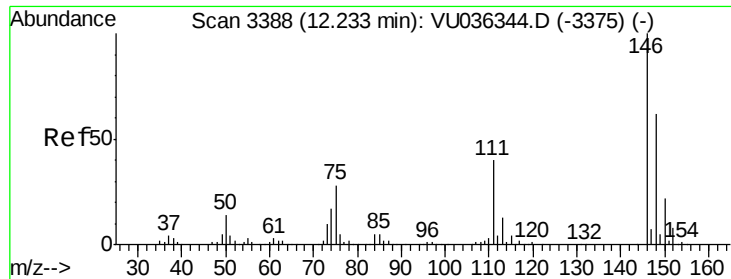
11.80

11.85

11.90

Time-->





#65

1,2-Dichlorobenzene

Concen: 4.082 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

ClientSampleId :

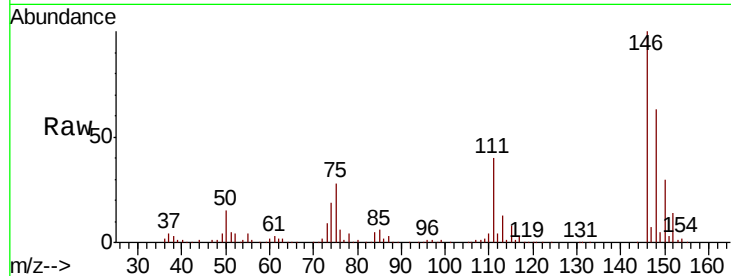
Tot Ion:146 Resp: 225514

Ion Ratio Lower Upper

146 100

111 39.8 32.5 48.7

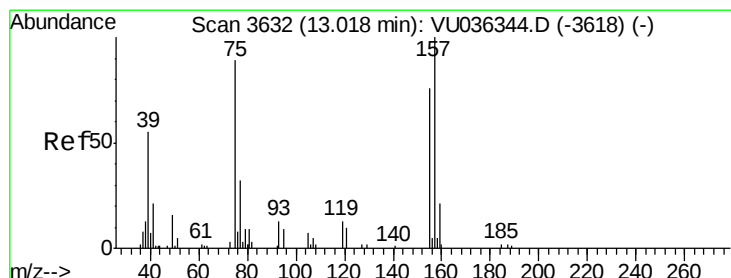
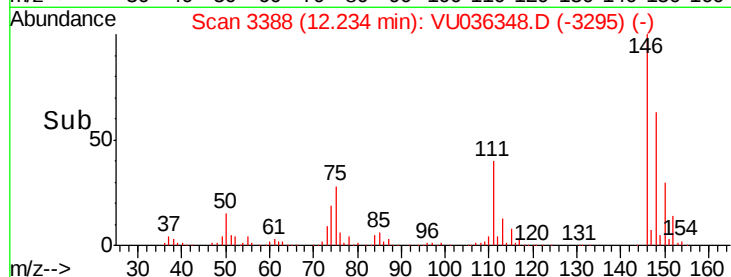
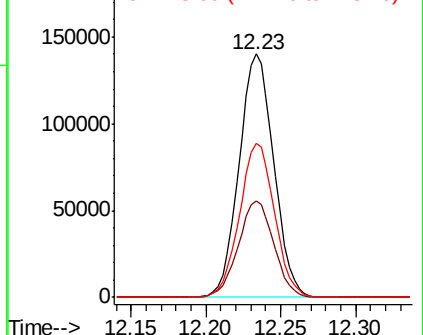
148 63.3 49.2 73.8



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: 4.389 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

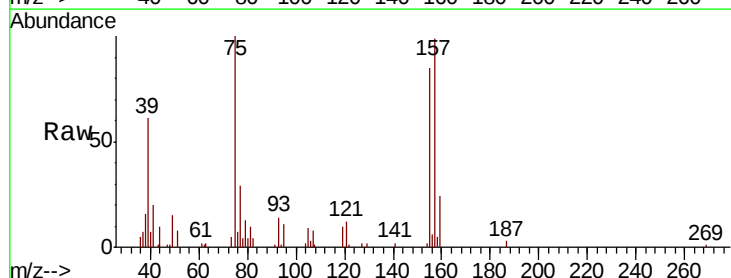
Tgt Ion: 75 Resp: 16105

Ion Ratio Lower Upper

75 100

155 84.8 61.9 92.9

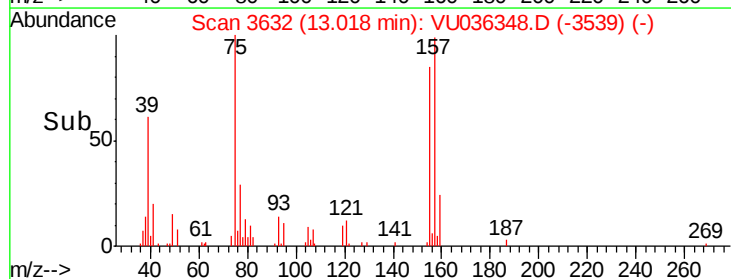
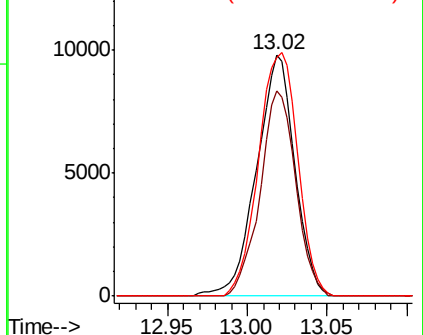
157 98.8 84.9 127.3

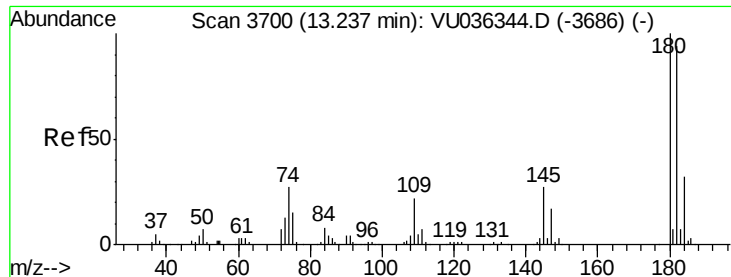


Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

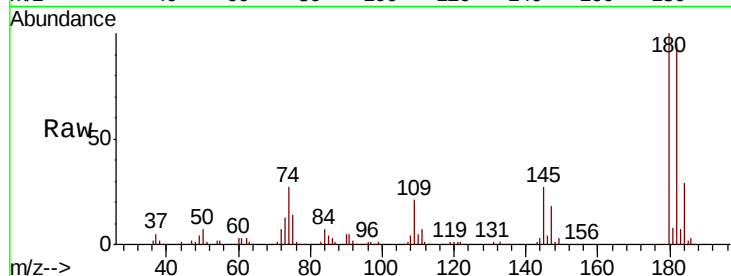




#67
 1,3,5-Trichlorobenzene
 Concen: 3.942 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.9	115.3
184	29.7	24.2	36.4
145	28.0	22.0	33.0



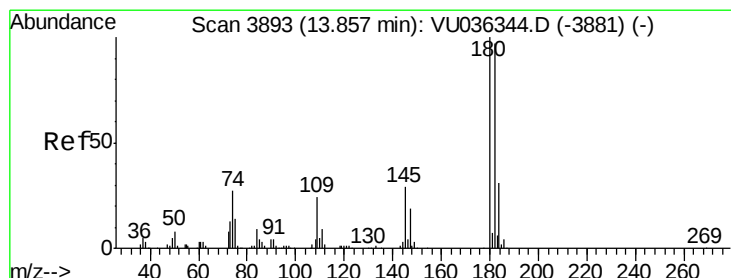
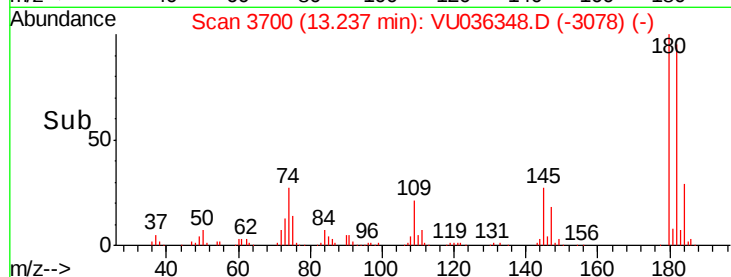
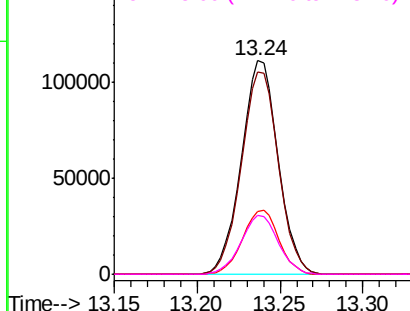
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

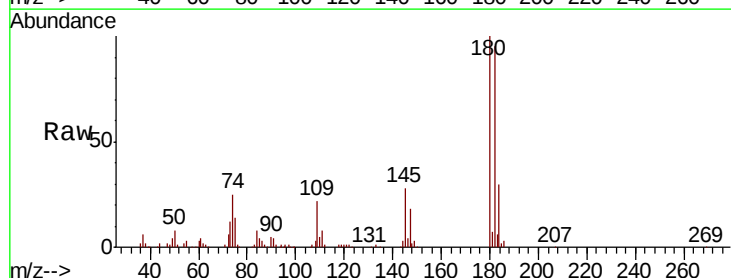
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.041 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. 0.00 min
 Lab File: VU036348.D
 Acq: 26 Dec 2019 16:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.3	112.9
145	28.5	22.7	34.1

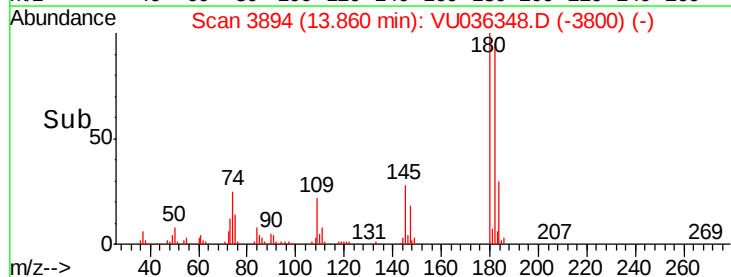
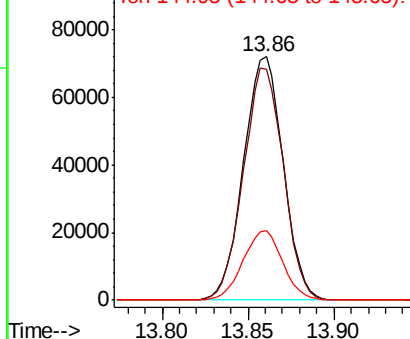


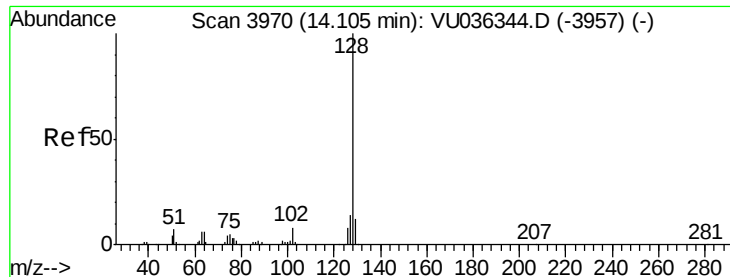
Abundance

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: 3.727 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

Instrument :

MSVOA_U

ClientSampled :

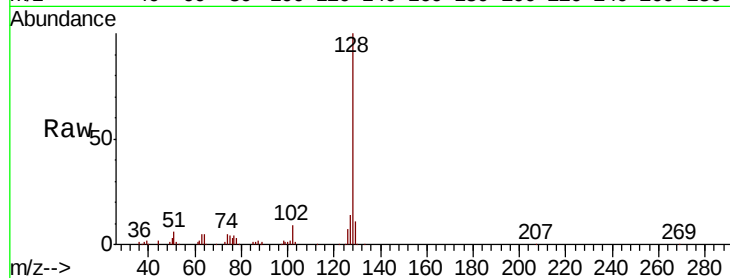
Tot Ion:128 Resp: 135352

Ion Ratio Lower Upper

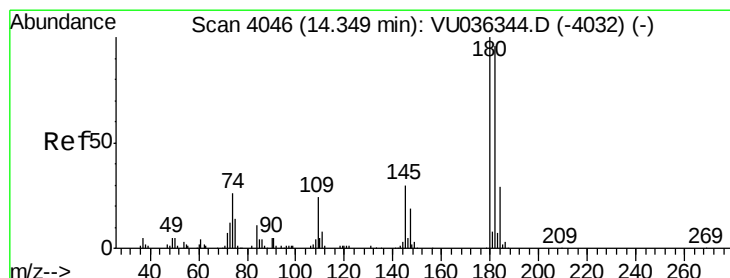
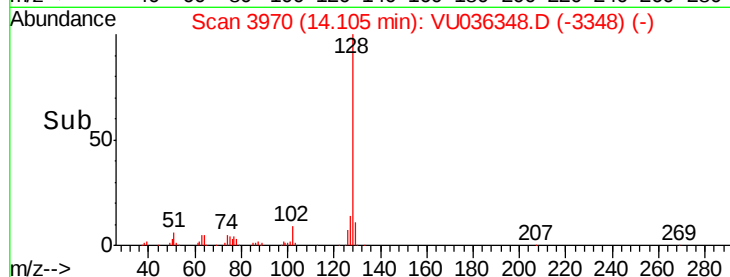
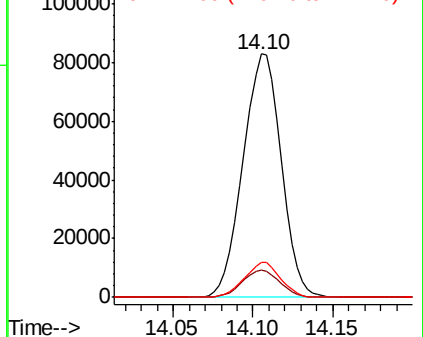
128 100

129 10.9 8.4 12.6

127 13.6 11.5 17.3



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: 4.129 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036348.D

Acq: 26 Dec 2019 16:00

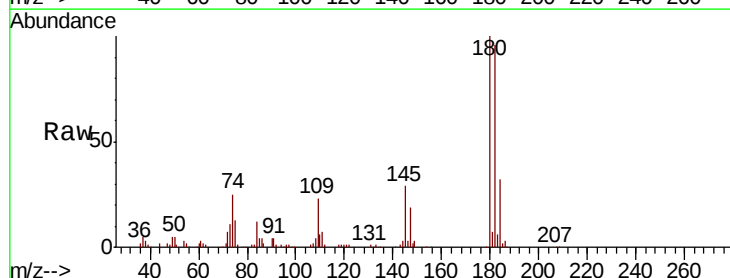
Tgt Ion:180 Resp: 113975

Ion Ratio Lower Upper

180 100

182 95.5 77.0 115.6

145 30.1 24.9 37.3



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

