

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U120919\
 Data File : VU036060.D
 Acq On : 09 Dec 2019 20:31
 Operator : JC/MD
 Sample : K6167-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFQW7

Quant Time: Dec 10 03:27:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 10 01:47:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	242221	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	256827	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	105023	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	111419	5.16	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	103.20%
7) Chloroethane-d5	1.93	69	133465	5.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	117.80%
11) 1,1-Dichloroethene-d2	2.59	63	141423	3.58	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.60%
20) 2-Butanone-d5	4.70	46	220822	60.02	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	120.04%
24) Chloroform-d	5.11	84	180123	5.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.80%
26) 1,2-Dichloroethane-d4	5.75	65	94350	5.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.00%
32) Benzene-d6	5.77	84	355775	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.40%
36) 1,2-Dichloropropane-d6	6.73	67	108820	5.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.00%
41) Toluene-d8	7.93	98	297833	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
43) trans-1,3-Dichloropropene-	8.21	79	32245	3.95	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.00%
46) 2-Hexanone-d5	8.68	63	166295	56.25	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.50%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	100164	5.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.00%
64) 1,2-Dichlorobenzene-d4	12.22	152	118992	5.89	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.80%

Target Compounds

					Ovalue
5) Vinyl chloride	1.62	62	41393	1.707 ug/L	92
8) Chloroethane	1.95	64	33300	1.805 ug/L	96
13) Acetone	2.68	43	324935	69.579 ug/L	98
15) Methyl Acetate	3.00	43	5764	0.836 ug/L #	82
16) Methylene chloride	3.09	84	8427	0.344 ug/L	92
19) 1,1-Dichloroethane	3.92	63	106705	3.305 ug/L	96
21) 2-Butanone	4.78	43	29338	6.276 ug/L	95
22) cis-1,2-Dichloroethene	4.72	96	106985	5.667 ug/L	100
25) Chloroform	5.14	83	42905	1.193 ug/L	98
29) 1,1,1-Trichloroethane	5.36	97	52329	1.808 ug/L	98
33) Benzene	5.82	78	60694	0.865 ug/L	100
34) Trichloroethene	6.58	95	3916	0.210 ug/L	95
38) Bromodichloromethane	7.14	83	5641	0.238 ug/L	93
42) Toluene	8.00	91	32263	0.429 ug/L	97
51) Chlorobenzene	9.48	112	84145	1.604 ug/L	100
52) Ethylbenzene	9.60	91	9290	0.118 ug/L	89
53) m,p-Xylene	9.72	106	8880	0.283 ug/L	93

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 10 01:47:47 2019
Response via : Initial Calibration

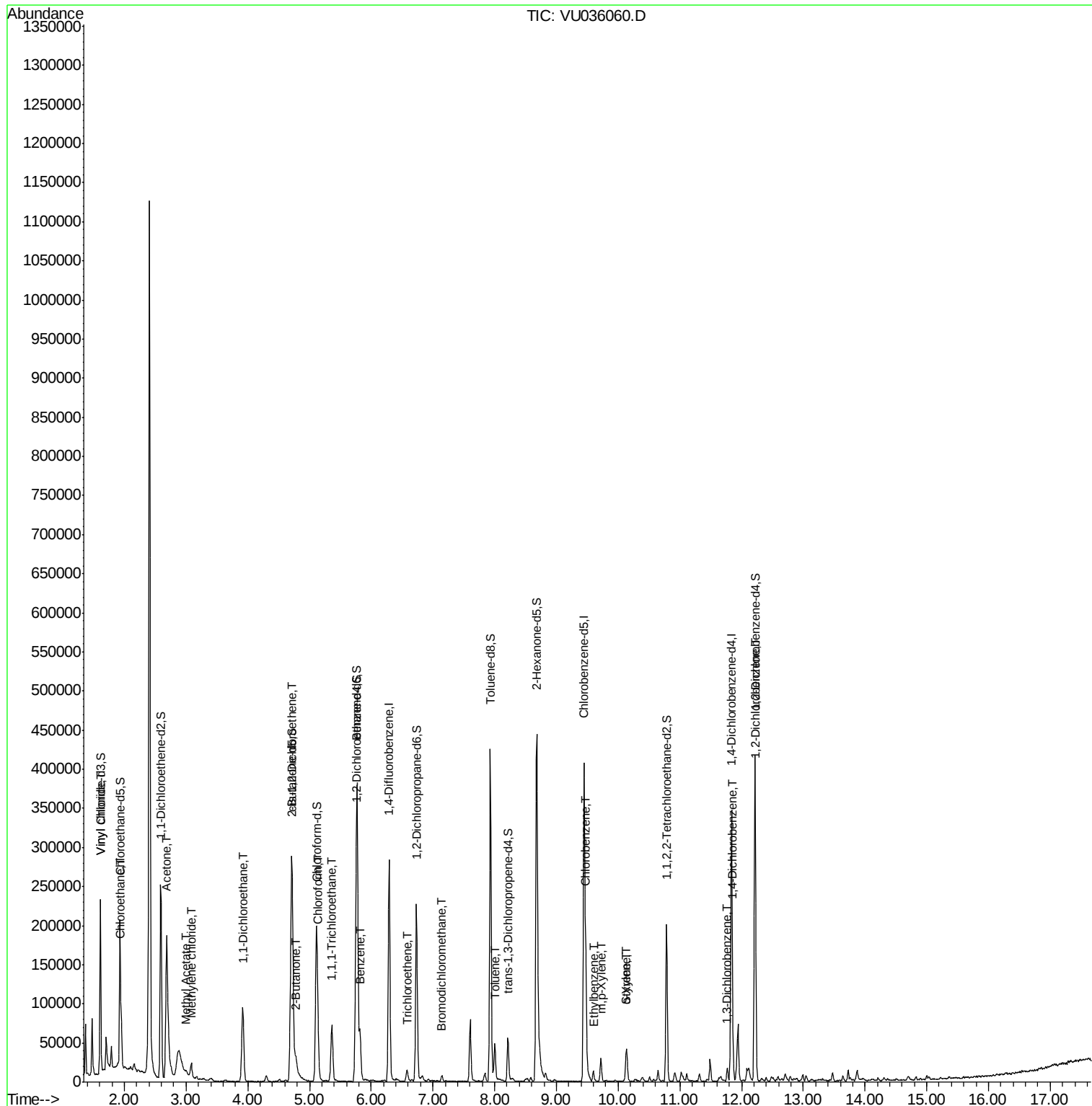
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.13	106	8082	0.274	ug/L	88
55) Styrene	10.14	104	14868	0.294	ug/L	91
62) 1,3-Dichlorobenzene	11.77	146	3438	0.100	ug/L	88
63) 1,4-Dichlorobenzene	11.86	146	8561	0.253	ug/L	92
65) 1,2-Dichlorobenzene	12.23	146	7218	0.213	ug/L #	83

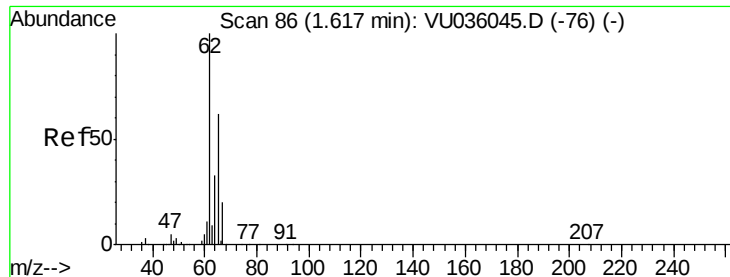
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.707 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

Instrument :

MSVOA_U

ClientSampleId :

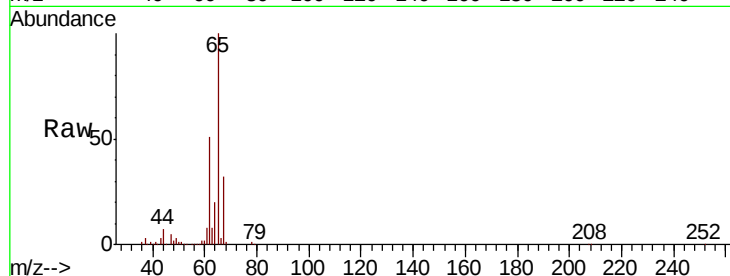
BFQW7

Tot Ion: 62 Resp: 41393

Ion Ratio Lower Upper

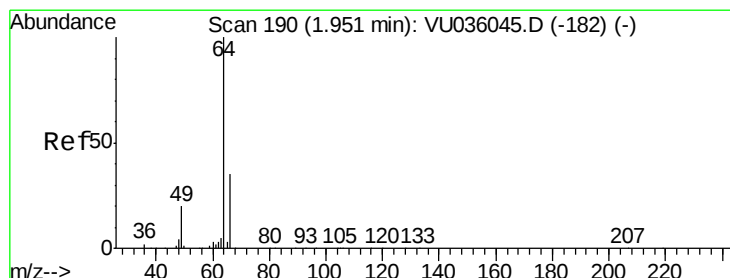
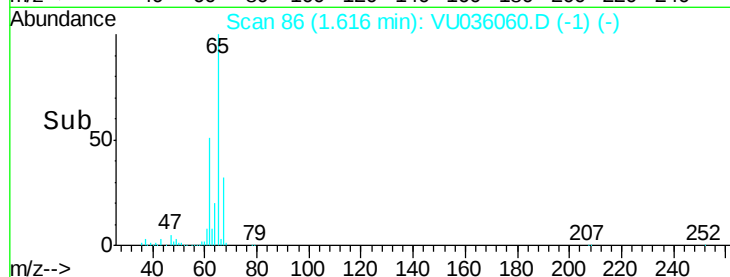
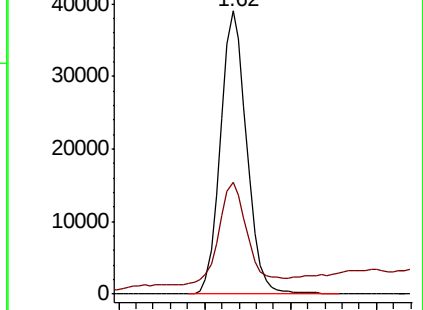
62 100

64 39.3 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VU036045.D (-76) (-)

Ion 64.10 (63.80 to 64.80): VU036060.D (-1) (-)



#8

Chloroethane

Concen: 1.805 ug/L

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU036060.D

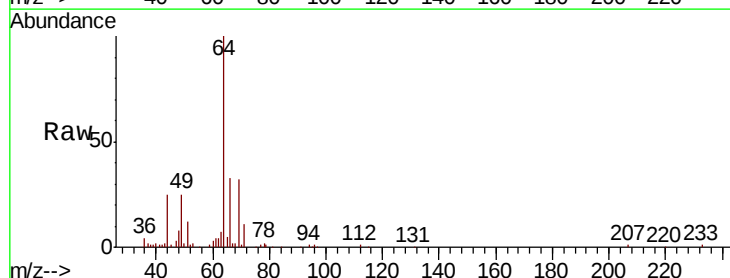
Acq: 09 Dec 2019 20:31

Tgt Ion: 64 Resp: 33300

Ion Ratio Lower Upper

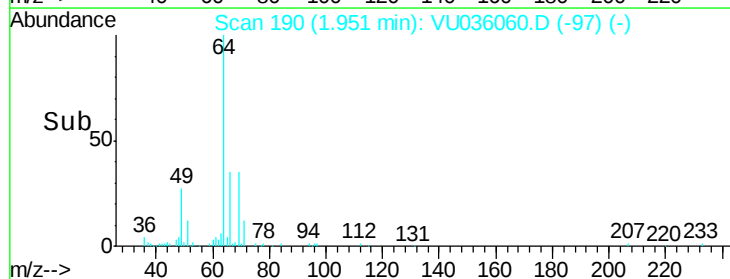
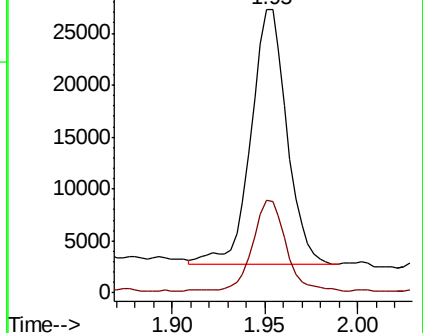
64 100

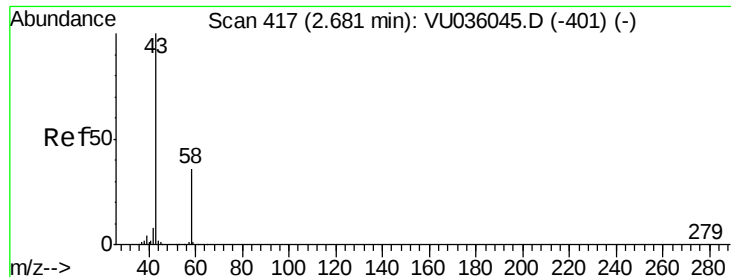
66 32.8 21.5 39.9



Abundance Ion 64.10 (63.80 to 64.80): VU036045.D (-182) (-)

Ion 66.05 (65.75 to 66.75): VU036060.D (-97) (-)





#13

Acetone

Concen: 69.579 ug/L

RT: 2.68 min Scan# 418

Delta R.T. 0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

Instrument :

MSVOA_U

ClientSampleId :

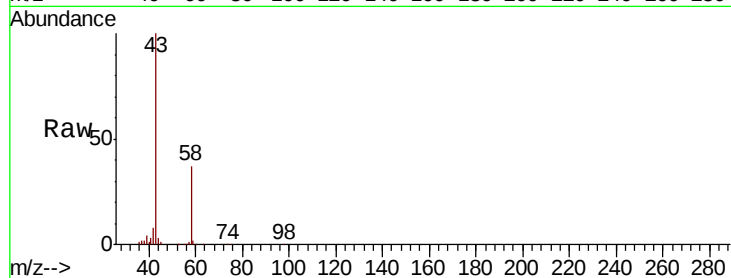
BFQW7

Tot Ion: 43 Resp: 324935

Ion Ratio Lower Upper

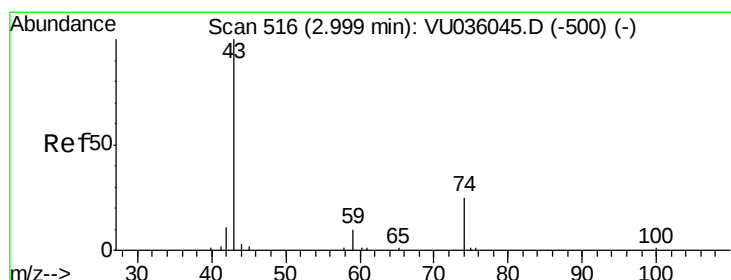
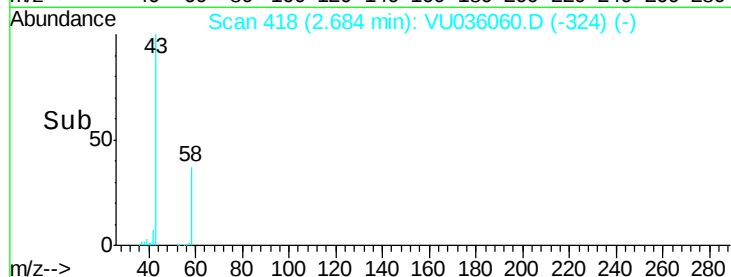
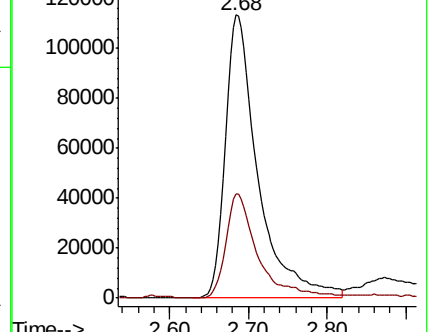
43 100

58 35.9 0.0 74.2



Abundance Ion 43.05 (42.75 to 43.75): VU036060.D (-324) (-)

Ion 58.05 (57.75 to 58.75): VU036060.D (-324) (-)



#15

Methyl Acetate

Concen: 0.836 ug/L

RT: 3.00 min Scan# 515

Delta R.T. -0.00 min

Lab File: VU036060.D

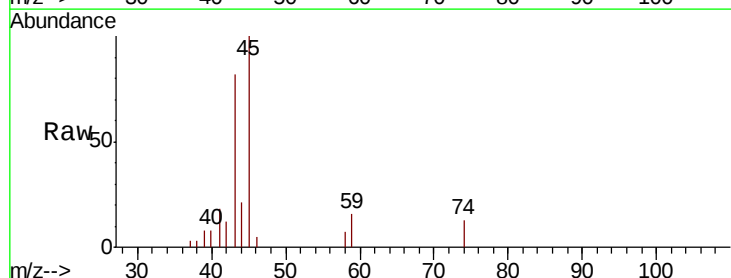
Acq: 09 Dec 2019 20:31

Tgt Ion: 43 Resp: 5764

Ion Ratio Lower Upper

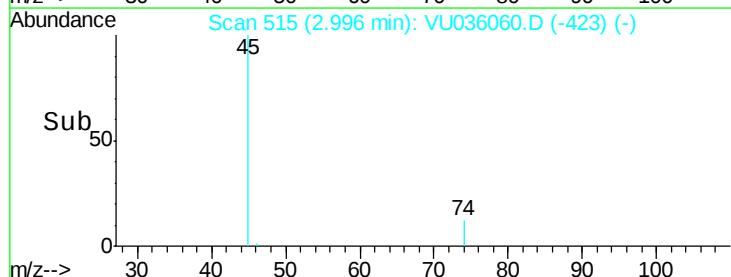
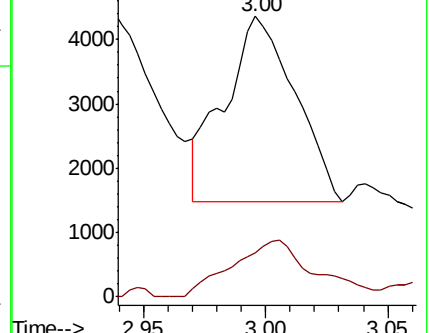
43 100

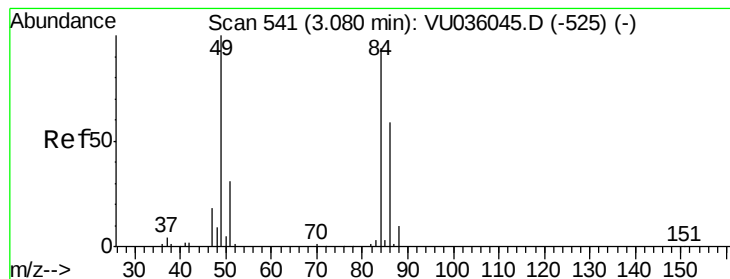
74 35.4 21.0 31.4#



Abundance Ion 43.05 (42.75 to 43.75): VU036060.D (-423) (-)

Ion 74.05 (73.75 to 74.75): VU036060.D (-423) (-)





#16

Methvlene chloride

Concen: 0.344 ug/L

RT: 3.09 min Scan# 543

Delta R.T. 0.01 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

Instrument :

MSVOA_U

ClientSampleId :

BFQW7

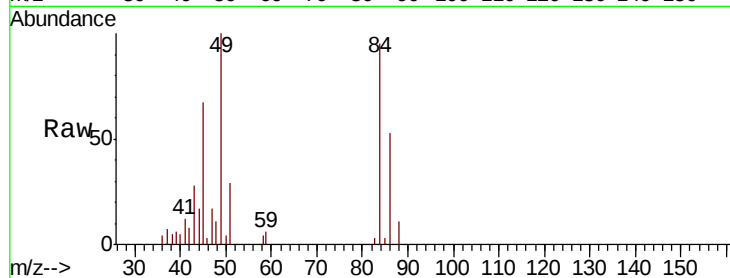
Tot Ion: 84 Resp: 8427

Ion Ratio Lower Upper

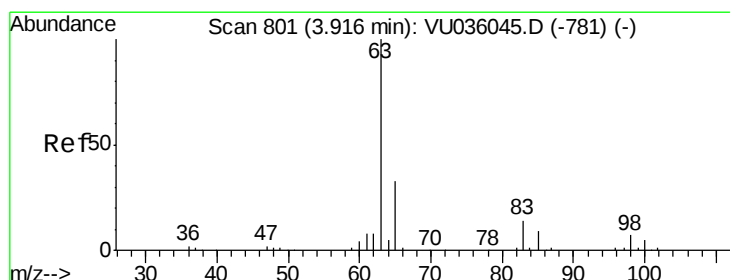
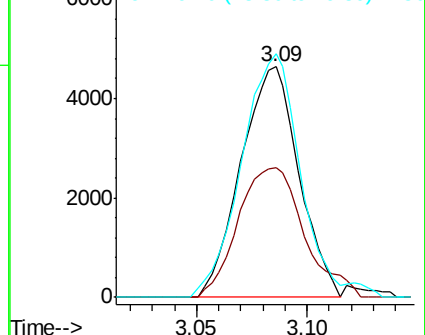
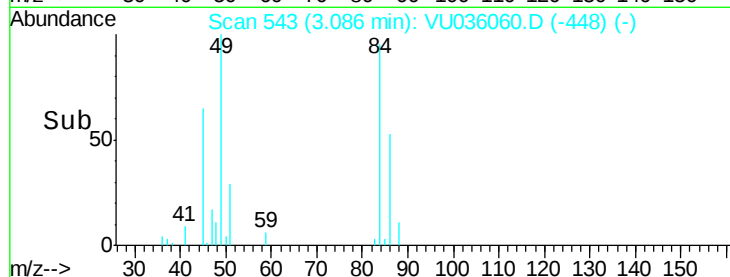
84 100

86 56.1 47.5 88.3

49 105.7 76.9 142.9



Abundance Ion 84.05 (83.75 to 84.75): VU036060.D (-448) (-)



#19

1,1-Dichloroethane

Concen: 3.305 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

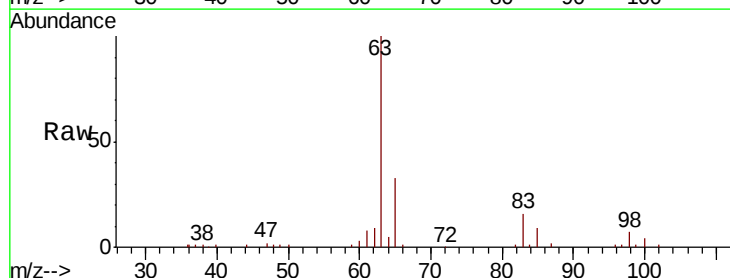
Tgt Ion: 63 Resp: 106705

Ion Ratio Lower Upper

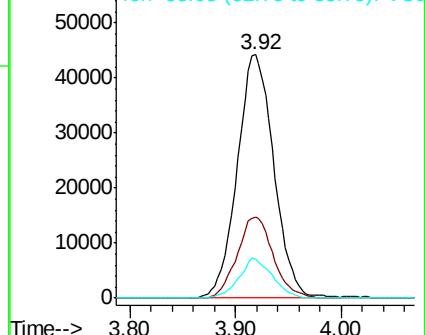
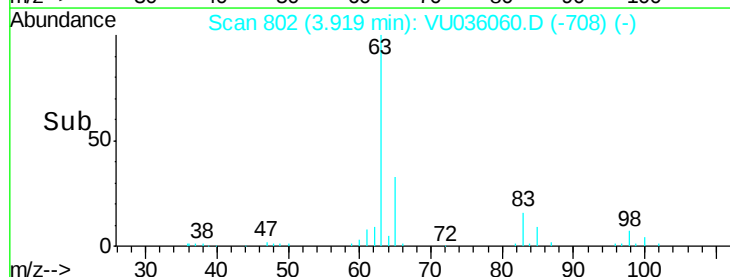
63 100

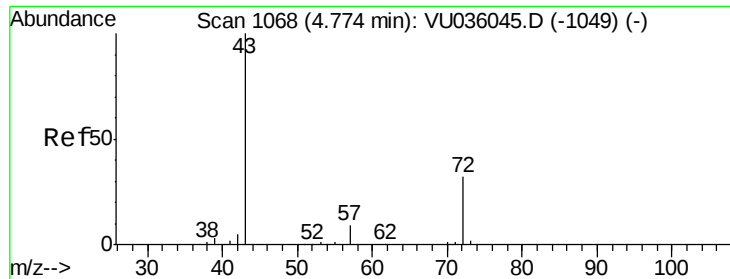
65 33.3 21.8 40.4

83 16.0 10.1 18.9



Abundance Ion 63.10 (62.80 to 63.80): VU036060.D (-708) (-)

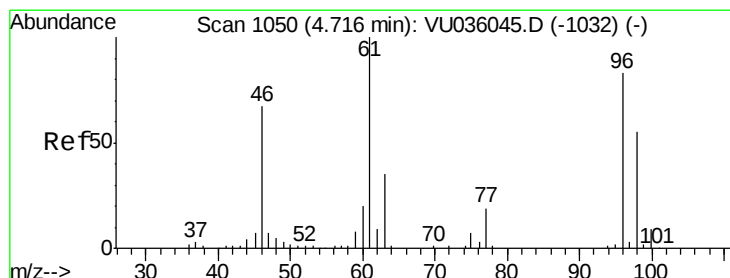
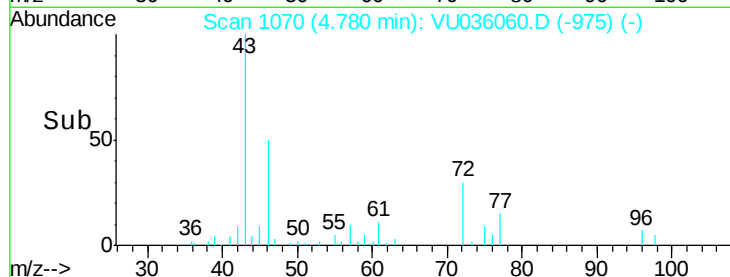
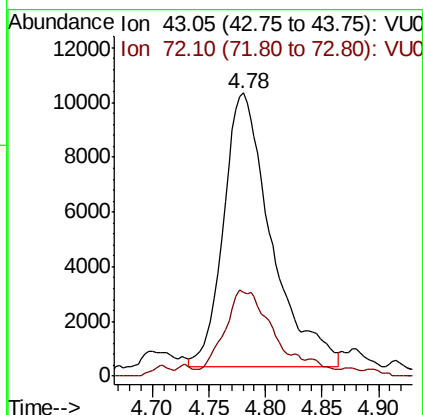
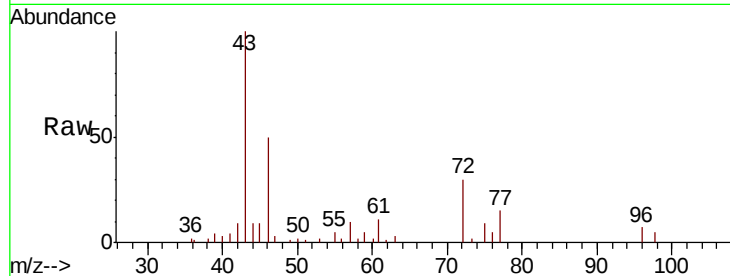




#21
 2-Butanone
 Concen: 6.276 ug/L
 RT: 4.78 min Scan# 1070
 Delta R.T. 0.01 min
 Lab File: VU036060.D
 Acq: 09 Dec 2019 20:31

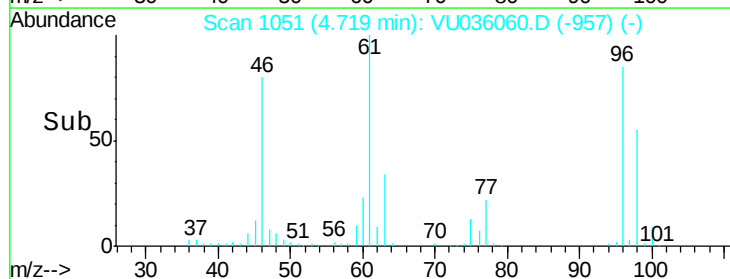
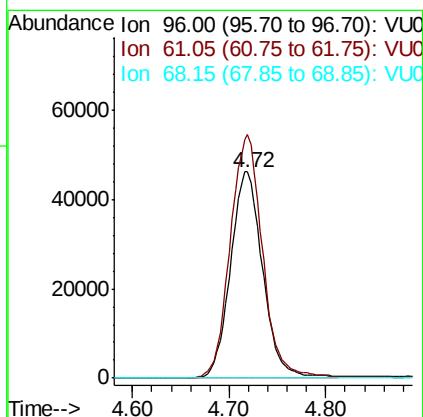
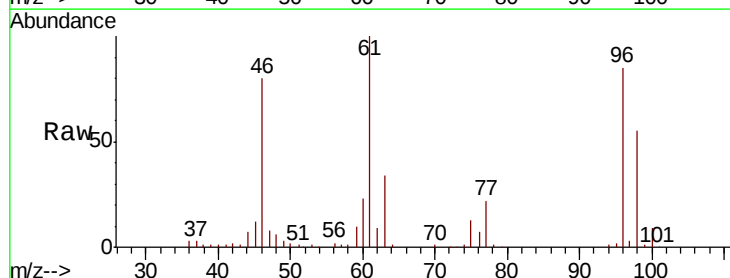
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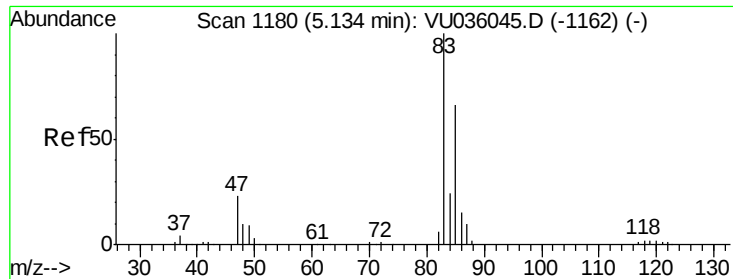
Tot Ion: 43 Resp: 29338
 Ion Ratio Lower Upper
 43 100
 72 27.4 15.0 45.0



#22
 cis-1,2-Dichloroethene
 Concen: 5.667 ug/L
 RT: 4.72 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VU036060.D
 Acq: 09 Dec 2019 20:31

Tgt Ion: 96 Resp: 106985
 Ion Ratio Lower Upper
 96 100
 61 118.1 83.0 154.2
 68 0.0 0.0 0.0

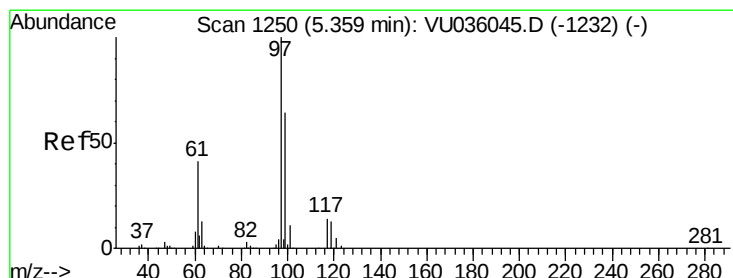
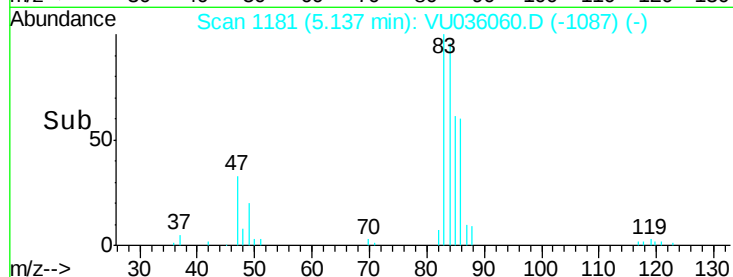
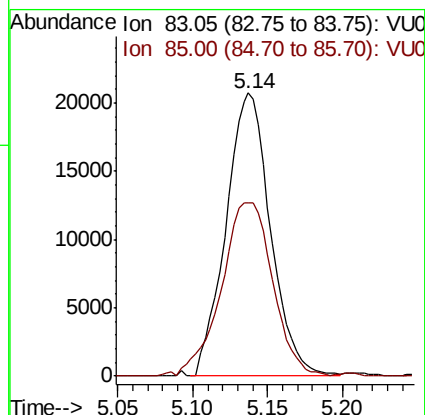
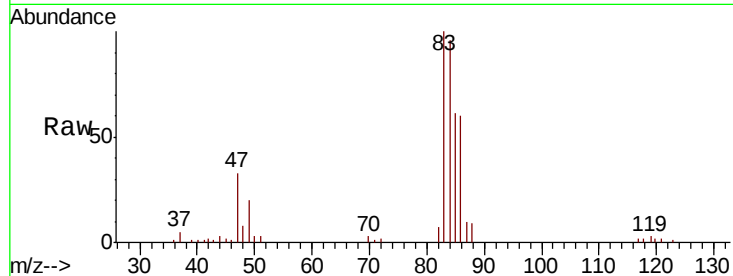




#25
Chloroform
Concen: 1.193 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU036060.D
Acq: 09 Dec 2019 20:31

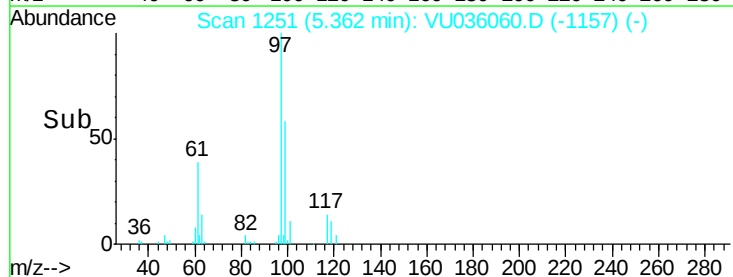
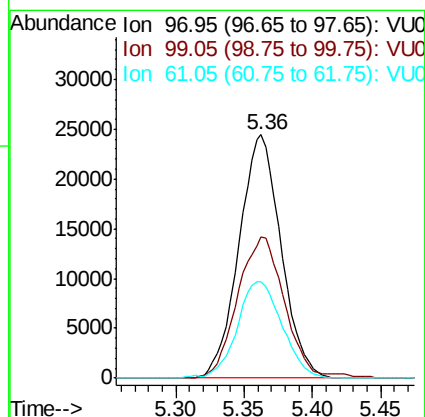
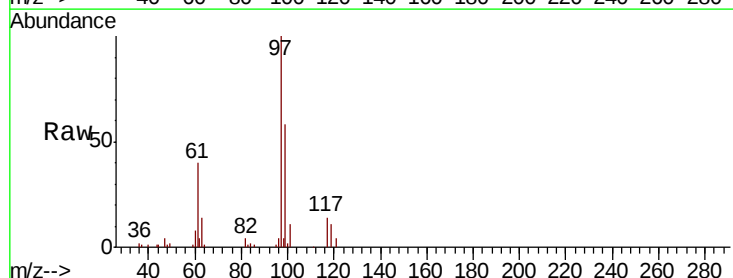
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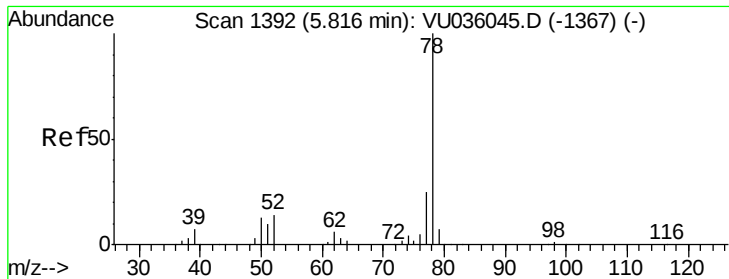
Tot Ion: 83 Resp: 42905
Ion Ratio Lower Upper
83 100
85 61.4 43.9 81.5



#29
1,1,1-Trichloroethane
Concen: 1.808 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU036060.D
Acq: 09 Dec 2019 20:31

Tgt Ion: 97 Resp: 52329
Ion Ratio Lower Upper
97 100
99 64.0 52.2 78.2
61 42.3 34.7 52.1





#33

Benzene

Concen: 0.865 ug/L

RT: 5.82 min Scan# 1393

Delta R.T. 0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

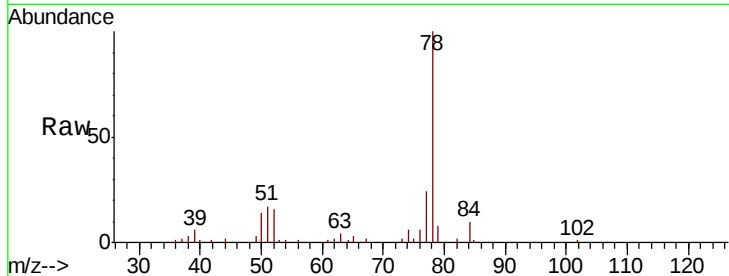
Instrument :

MSVOA_U

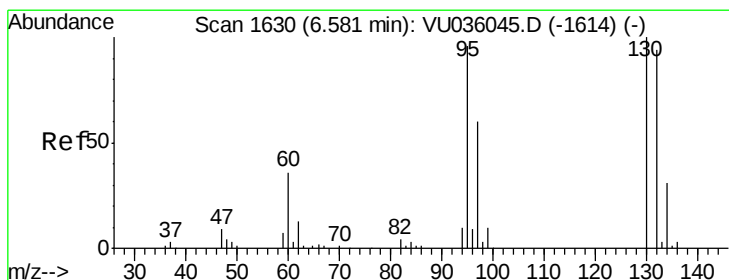
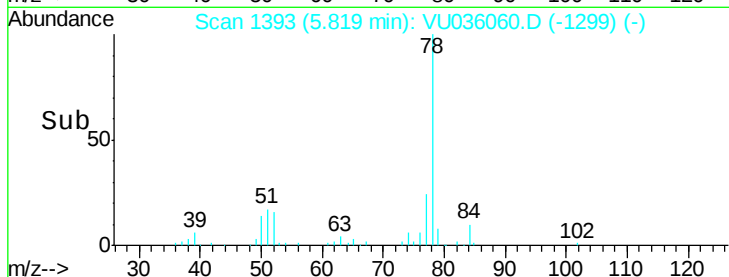
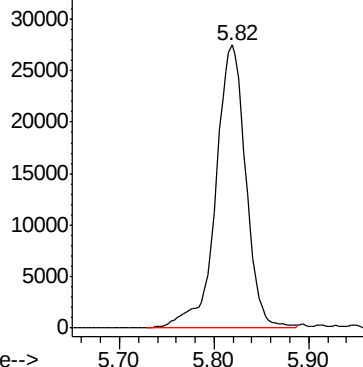
ClientSampleId :

BFQW7

Tgt Ion: 78 Resp: 60694



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.210 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

Tgt Ion: 95 Resp: 3916

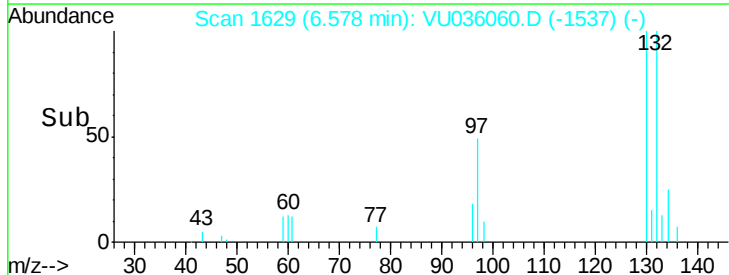
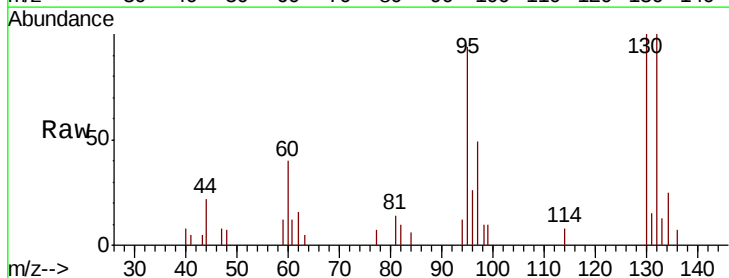
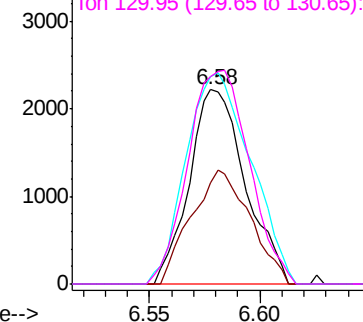
Ion	Ratio	Lower	Upper
95	100		
97	52.1	44.4	82.4
132	106.6	73.4	136.4
130	106.9	75.9	141.1

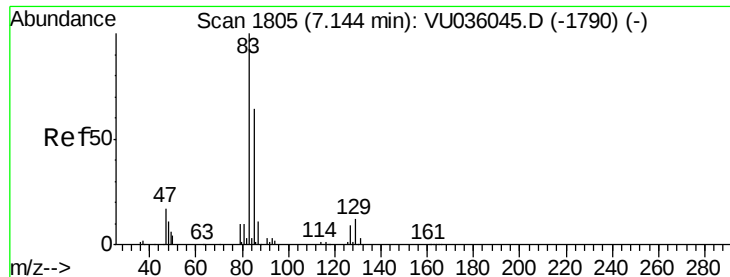
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0





#38

Bromodichloromethane

Concen: 0.238 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

Instrument :

MSVOA_U

ClientSampleId :

BFQW7

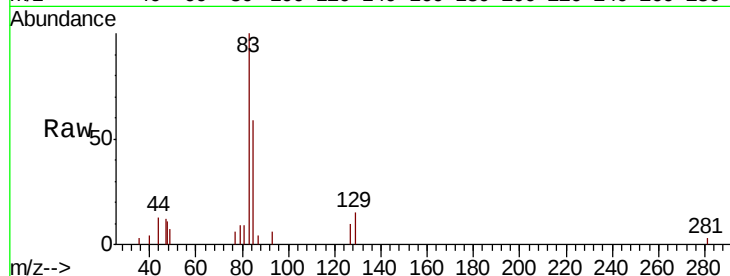
Tot Ion: 83 Resp: 5641

Ion Ratio Lower Upper

83 100

85 58.9 45.2 84.0

127 9.8 7.4 11.2



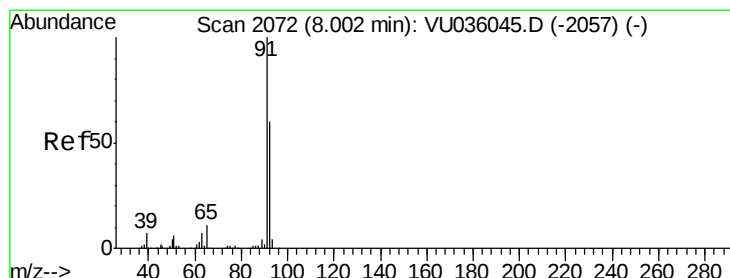
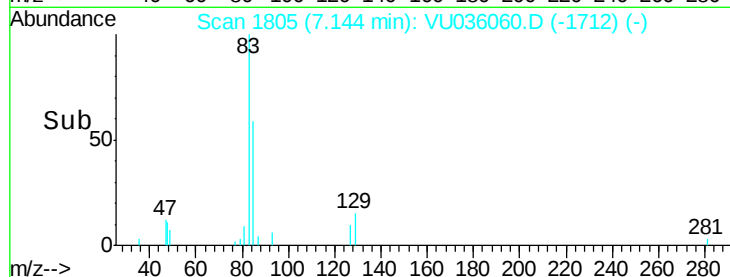
Abundance Ion 82.95 (82.65 to 83.65): VU036060.D (-1712) (-)

Ion 85.00 (84.70 to 85.70): VU036060.D (-1712) (-)

Ion 126.90 (126.60 to 127.60): VU036060.D (-1712) (-)

7.14

Time-->



#42

Toluene

Concen: 0.429 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036060.D

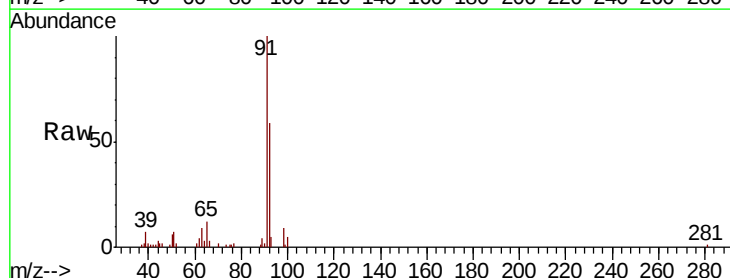
Acq: 09 Dec 2019 20:31

Tgt Ion: 91 Resp: 32263

Ion Ratio Lower Upper

91 100

92 59.2 40.0 74.4

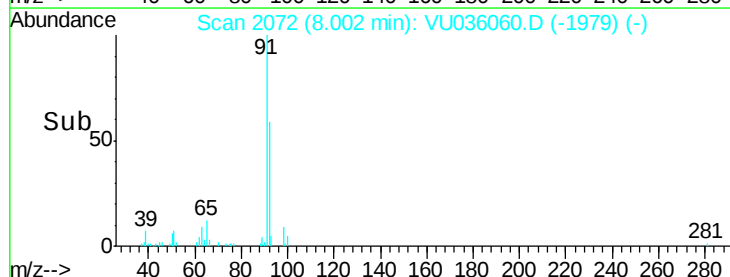


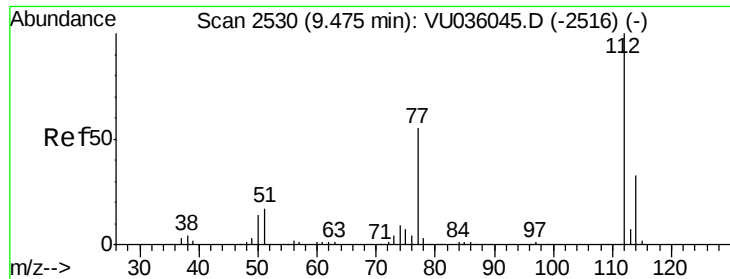
Abundance Ion 91.15 (90.85 to 91.85): VU036060.D (-1979) (-)

Ion 92.15 (91.85 to 92.85): VU036060.D (-1979) (-)

8.00

Time-->

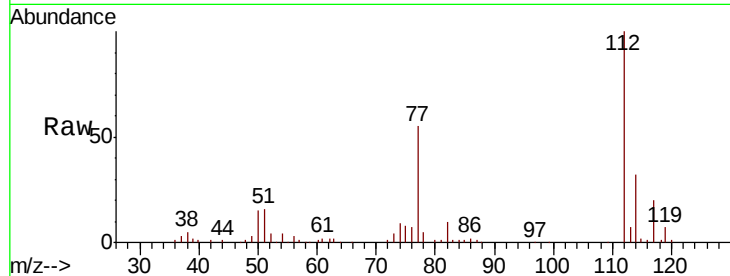




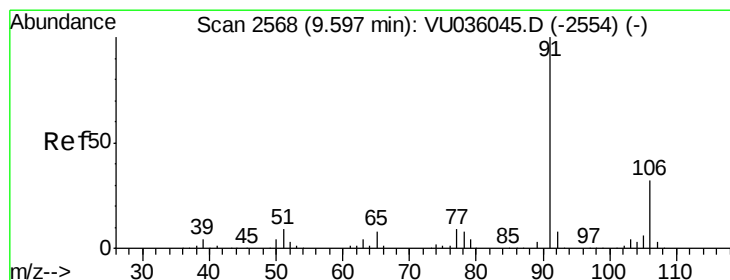
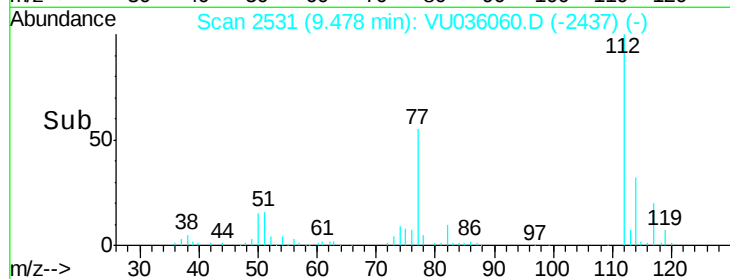
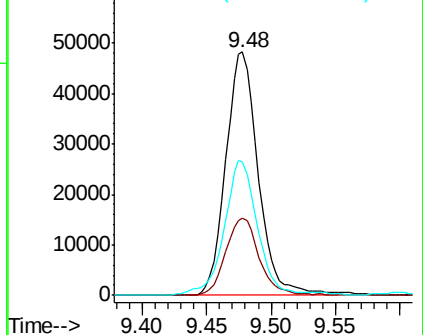
#51
Chlorobenzene
Concen: 1.604 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. 0.00 min
Lab File: VU036060.D
Acq: 09 Dec 2019 20:31

Instrument :
MSVOA_U
ClientSampleId :
BFQW7

Tot Ion:112 Resp: 84145
Ion Ratio Lower Upper
112 100
114 31.9 22.3 41.5
77 54.6 43.8 65.8

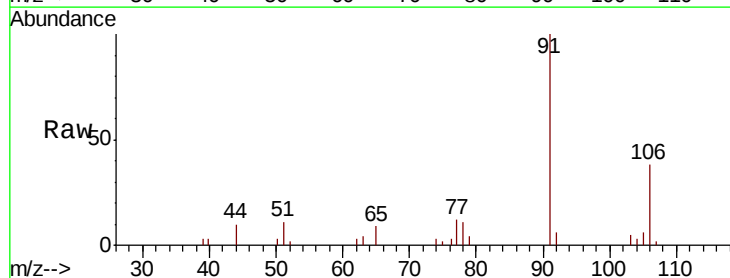


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

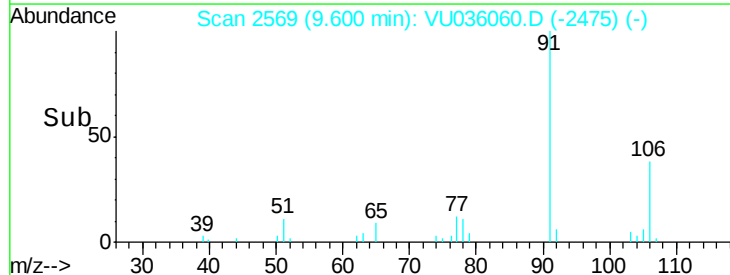
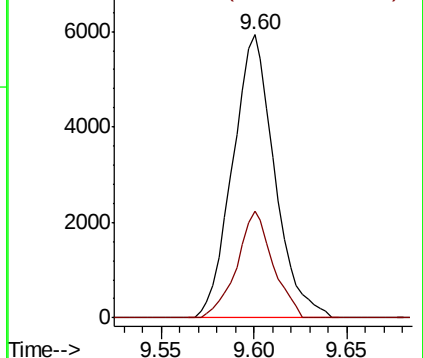


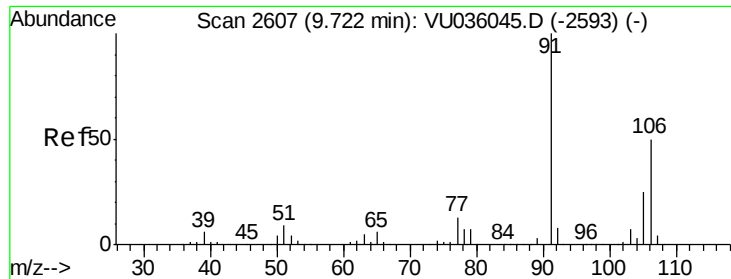
#52
Ethylbenzene
Concen: 0.118 ug/L
RT: 9.60 min Scan# 2569
Delta R.T. 0.00 min
Lab File: VU036060.D
Acq: 09 Dec 2019 20:31

Tgt Ion: 91 Resp: 9290
Ion Ratio Lower Upper
91 100
106 37.6 22.0 41.0



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





#53

m,p-Xylene

Concen: 0.283 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

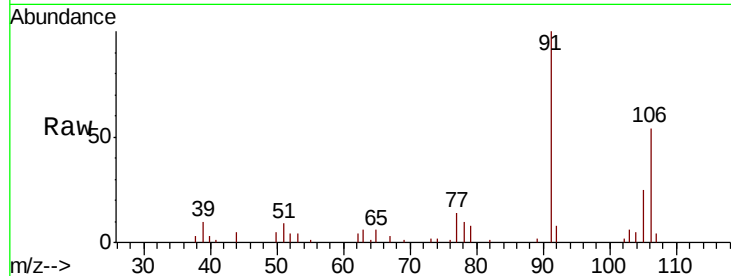
Instrument :
MSVOA_U
ClientSampleId :
BFQW7

Tot Ion:106 Resp: 8880

Ion Ratio Lower Upper

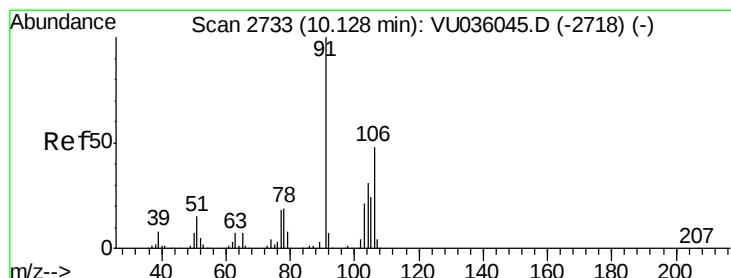
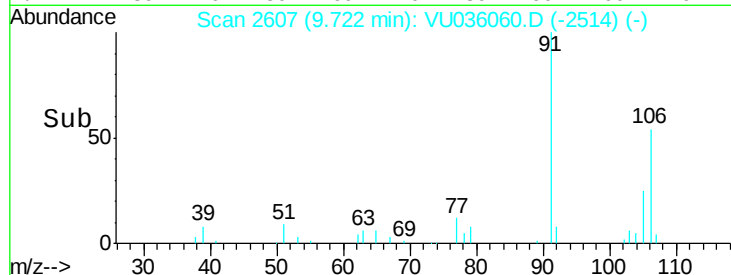
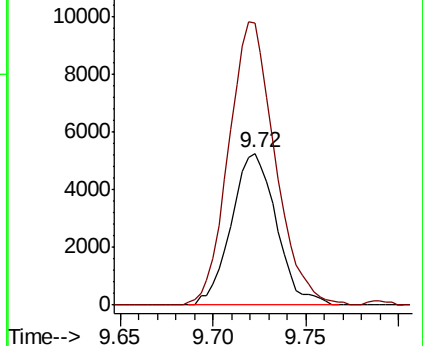
106 100

91 185.4 136.9 254.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.274 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU036060.D

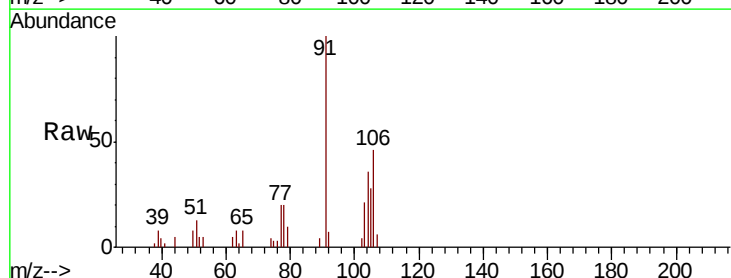
Acq: 09 Dec 2019 20:31

Tgt Ion:106 Resp: 8082

Ion Ratio Lower Upper

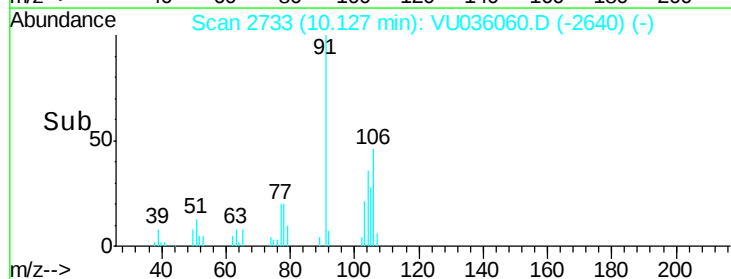
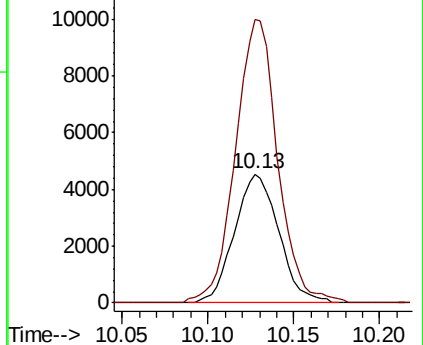
106 100

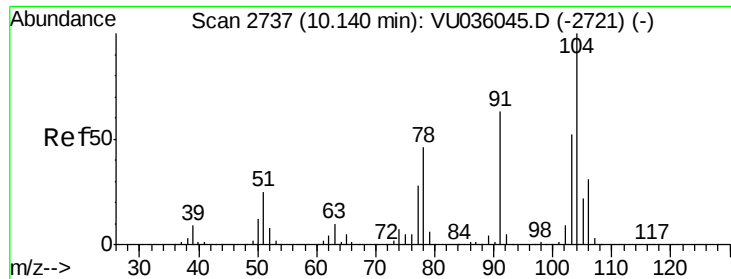
91 219.7 140.6 261.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#55

Stvrene

Concen: 0.294 ug/L

RT: 10.14 min Scan# 2738

Delta R.T. 0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

Instrument :

MSVOA_U

ClientSampleId :

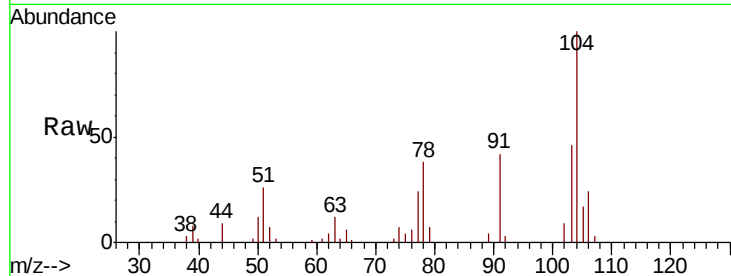
BFQW7

Tot Ion:104 Resp: 14868

Ion Ratio Lower Upper

104 100

78 37.5 30.5 56.7



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0

10.14

8000

6000

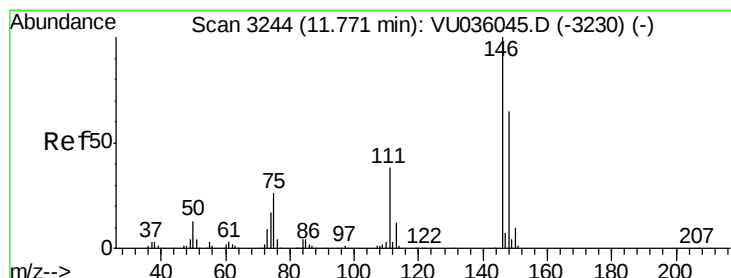
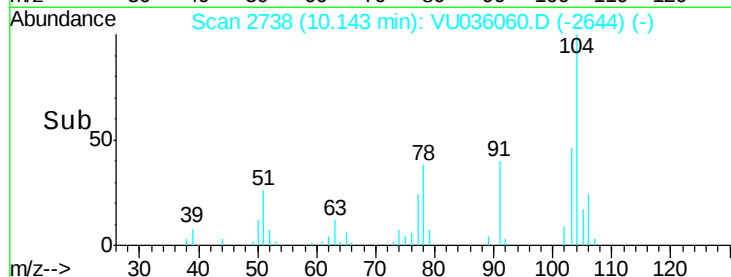
4000

2000

0

Time-->

10.10 10.15 10.20



#62

1,3-Dichlorobenzene

Concen: 0.100 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

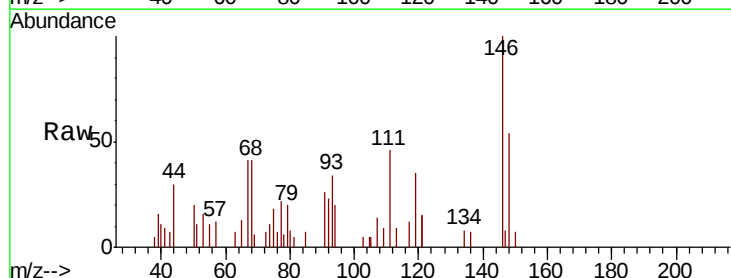
Tgt Ion:146 Resp: 3438

Ion Ratio Lower Upper

146 100

111 45.6 26.0 48.2

148 53.7 43.7 81.1



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

4000

3000

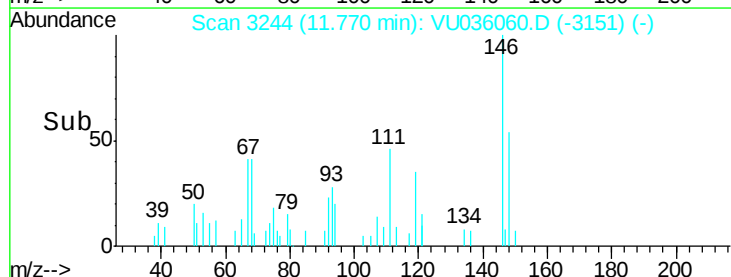
2000

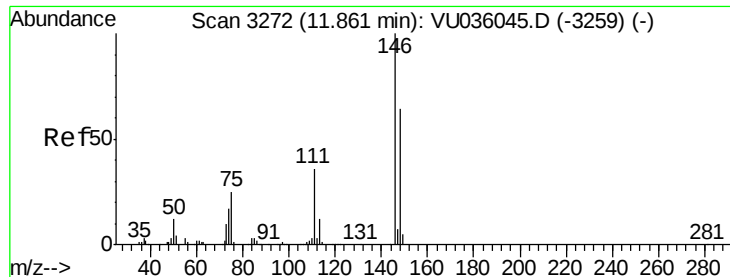
1000

0

Time-->

11.75 11.80





#63

1,4-Dichlorobenzene

Concen: 0.253 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

Instrument :

MSVOA_U

ClientSampleId :

BFQW7

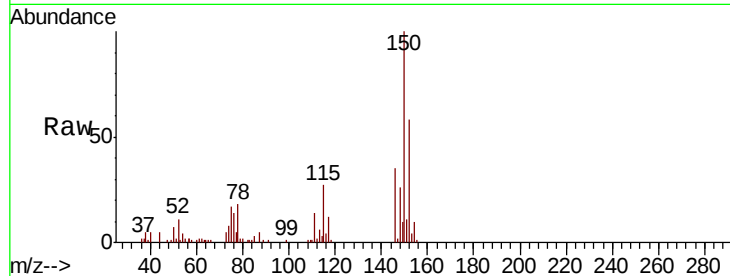
Tot Ion:146 Resp: 8561

Ion Ratio Lower Upper

146 100

111 40.0 26.2 48.6

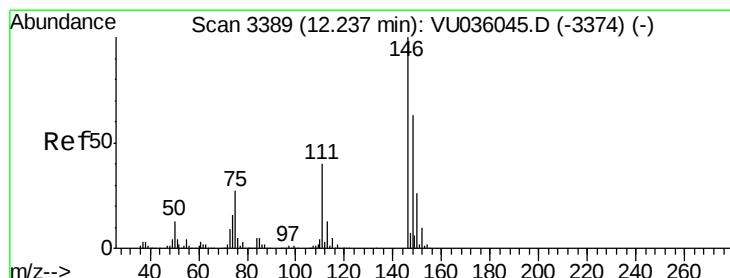
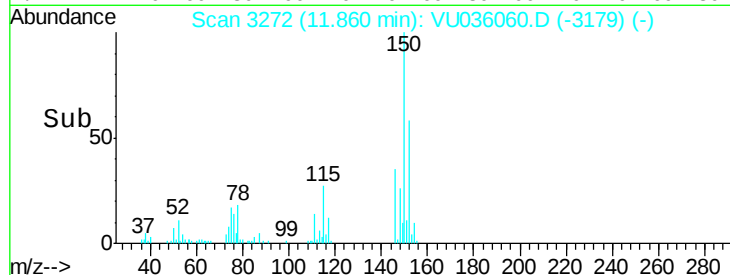
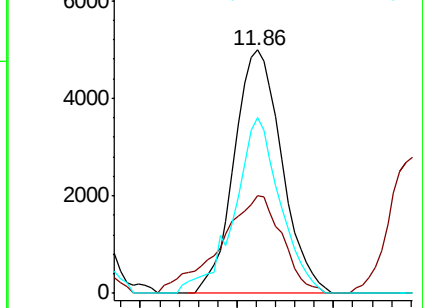
148 72.3 44.9 83.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 0.213 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. -0.00 min

Lab File: VU036060.D

Acq: 09 Dec 2019 20:31

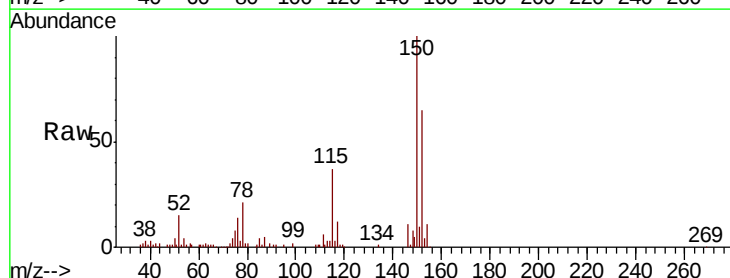
Tgt Ion:146 Resp: 7218

Ion Ratio Lower Upper

146 100

111 52.9 31.3 46.9#

148 73.3 50.5 75.7



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

