

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021120\
 Data File : VU036719.D
 Acq On : 11 Feb 2020 12:15
 Operator : JC/MD
 Sample : MDL05
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Quant Time: Feb 12 02:34:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Feb 12 02:32:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	260322	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	242624	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	101798	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	63383	36.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	73.02%
7) Chloroethane-d5	1.93	69	65829	40.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	81.78%
11) 1,1-Dichloroethene-d2	2.59	63	97266	29.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	59.36%#
21) 2-Butanone-d5	4.68	46	139616	94.26	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.26%
24) Chloroform-d	5.11	84	136485	43.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.88%
26) 1,2-Dichloroethane-d4	5.75	65	99929	46.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.00%
32) Benzene-d6	5.77	84	291981	45.77	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.54%
36) 1,2-Dichloropropane-d6	6.73	67	100715	47.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.12%
41) Toluene-d8	7.93	98	262995	45.02	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.04%
43) trans-1,3-Dichloropropene-	8.21	79	45021	44.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.80%
47) 2-Hexanone-d5	8.67	63	121472	100.51	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.51%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	152841	48.98	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.96%
66) 1,2-Dichlorobenzene-d4	12.21	152	87487	47.30	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	3960	2.202 ug/L	99
3) Chloromethane	1.54	50	5074	2.381 ug/L	97
5) Vinyl chloride	1.62	62	5493	2.394 ug/L #	51
6) Bromomethane	1.87	94	3388	2.355 ug/L	95
8) Chloroethane	1.95	64	3734	2.564 ug/L	85
9) Trichlorofluoromethane	2.16	101	6359	2.332 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	4551	2.786 ug/L	89
12) 1,1-Dichloroethene	2.61	96	4624	2.908 ug/L #	1
13) Acetone	2.66	43	9812	6.236 ug/L	99
14) Carbon disulfide	2.82	76	10858	2.285 ug/L	98
15) Methyl Acetate	2.99	43	5340	2.348 ug/L	100
16) Methylene chloride	3.08	84	5111	2.604 ug/L	98
17) trans-1,2-Dichloroethene	3.39	96	3755	2.219 ug/L	91
18) Methyl tert-butyl Ether	3.41	73	13991	2.383 ug/L	99
19) 1,1-Dichloroethane	3.92	63	7590	2.251 ug/L	98
20) cis-1,2-Dichloroethene	4.72	96	4524	2.347 ug/L	99
22) 2-Butanone	4.76	43	10523	5.635 ug/L	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

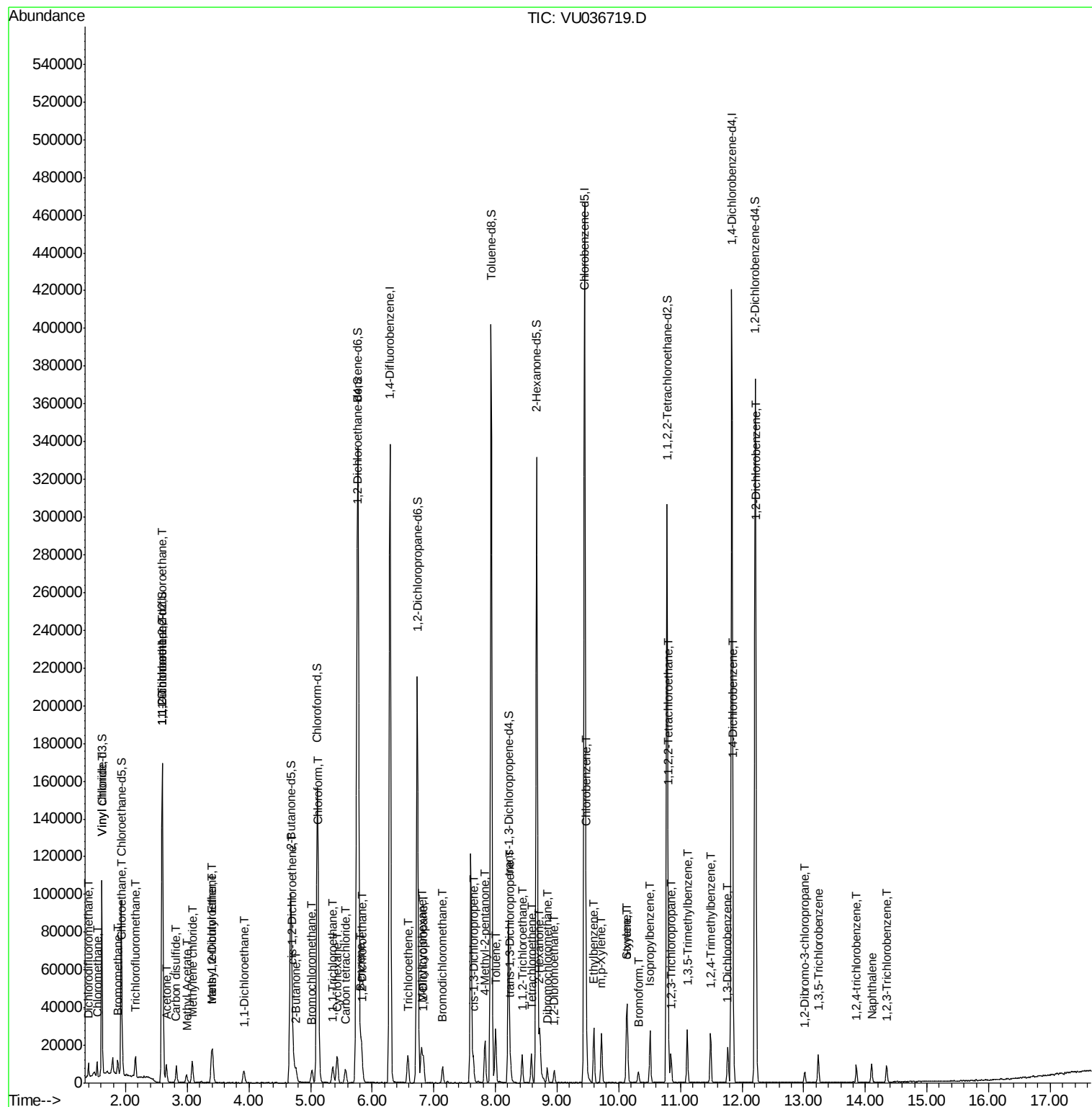
23) Bromochloromethane	5.02	128	1998	2.212	ug/L	92
25) Chloroform	5.13	83	14945	4.558	ug/L	97
27) 1,2-Dichloroethane	5.84	62	7163	2.598	ug/L	97
29) Cyclohexane	5.43	56	6964	2.234	ug/L #	89
30) 1,1,1-Trichloroethane	5.36	97	6156	2.389	ug/L	98
31) Carbon tetrachloride	5.57	117	4816	2.308	ug/L	96
33) Benzene	5.82	78	17895	2.439	ug/L	100
34) Trichloroethene	6.58	95	4333	2.388	ug/L	97
35) Methylcyclohexane	6.80	83	7540	2.359	ug/L	96
37) 1,2-Dichloropropane	6.83	63	4937	2.495	ug/L #	93
38) Bromodichloromethane	7.14	83	5459	2.270	ug/L	96
39) cis-1,3-Dichloropropene	7.64	75	7298	2.308	ug/L	98
40) 4-Methyl-2-pentanone	7.83	43	14753	4.719	ug/L	97
42) Toluene	8.00	91	19607	2.473	ug/L	96
44) trans-1,3-Dichloropropene	8.24	75	6301	2.281	ug/L	93
45) 1,1,2-Trichloroethane	8.43	97	4373	2.422	ug/L	97
46) Tetrachloroethene	8.58	164	2986	2.345	ug/L	85
48) 2-Hexanone	8.72	43	12719	4.987	ug/L	98
49) Dibromochloromethane	8.84	129	3919	2.220	ug/L	97
50) 1,2-Dibromoethane	8.95	107	4523	2.385	ug/L #	89
51) Chlorobenzene	9.47	112	11070	2.318	ug/L	100
52) Ethylbenzene	9.60	91	20061	2.302	ug/L	97
53) m,p-Xylene	9.72	106	7230	2.249	ug/L	88
54) o-xylene	10.13	106	7300	2.293	ug/L	94
55) Styrene	10.14	104	11565	2.179	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.81	83	7949	2.444	ug/L #	92
59) Bromoform	10.32	173	2541	2.259	ug/L #	88
60) 1,2,3-Trichloropropane	10.85	75	6370	2.660	ug/L	98
61) Isopropylbenzene	10.51	105	18575	2.450	ug/L	99
62) 1,3,5-Trimethylbenzene	11.11	105	15127	2.328	ug/L	99
63) 1,2,4-Trimethylbenzene	11.49	105	14561	2.244	ug/L	94
64) 1,3-Dichlorobenzene	11.77	146	7498	2.352	ug/L	97
65) 1,4-Dichlorobenzene	11.86	146	7541	2.350	ug/L	98
67) 1,2-Dichlorobenzene	12.23	146	7932	2.458	ug/L #	94
68) 1,2-Dibromo-3-chloropropan	13.02	75	1510	2.207	ug/L	92
69) 1,3,5-Trichlorobenzene	13.23	180	4413	1.996	ug/L	98
70) 1,2,4-trichlorobenzene	13.86	180	2815	1.527	ug/L	96
71) Naphthalene	14.10	128	8293	1.276	ug/L	98
72) 1,2,3-Trichlorobenzene	14.35	180	2800	1.525	ug/L	96

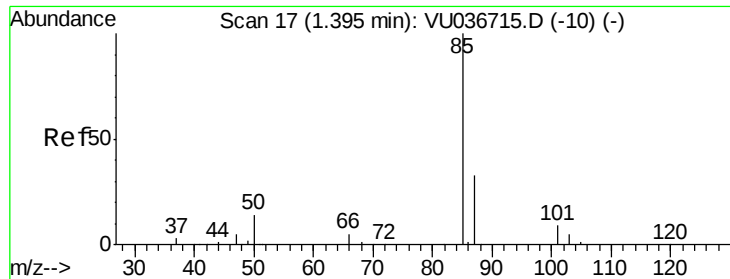
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.202 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

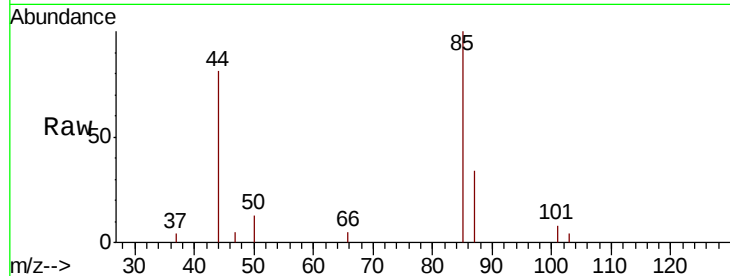
MDL05

Tot Ion: 85 Resp: 3960

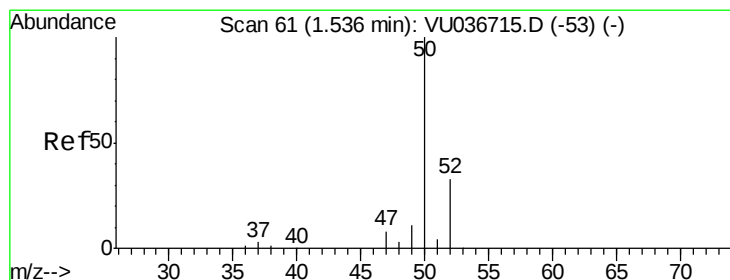
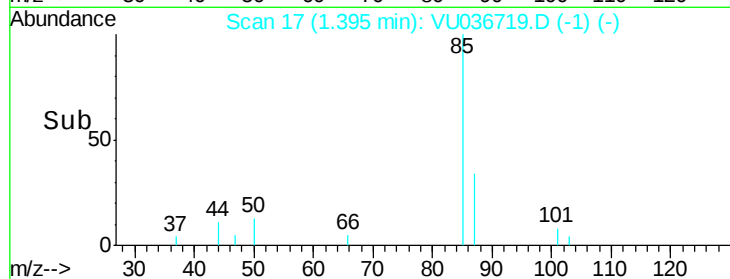
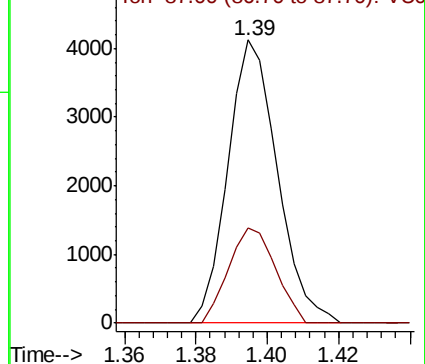
Ion Ratio Lower Upper

85 100

87 31.8 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU036719.D (-1) (-)



#3

Chloromethane

Concen: 2.381 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036719.D

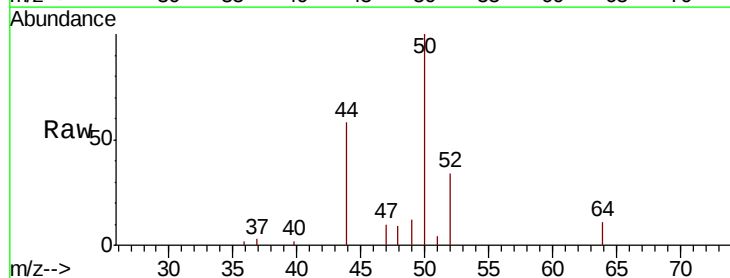
Acq: 11 Feb 2020 12:15

Tgt Ion: 50 Resp: 5074

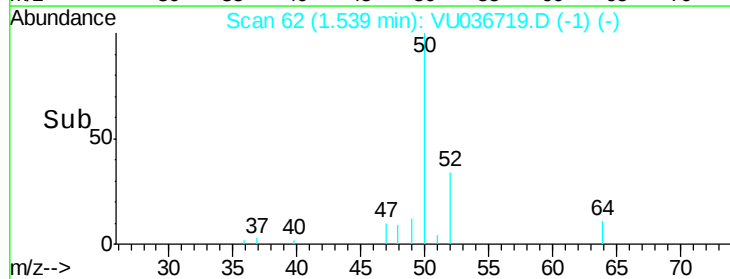
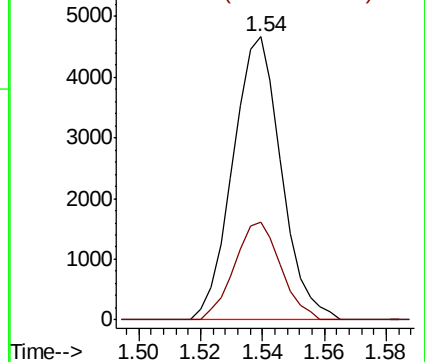
Ion Ratio Lower Upper

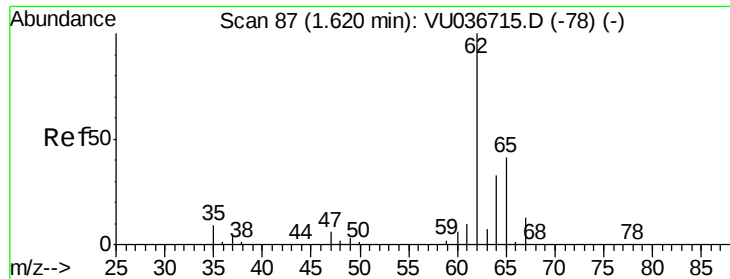
50 100

52 34.5 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036719.D (-1) (-)





#5

Vinyl chloride

Concen: 2.394 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

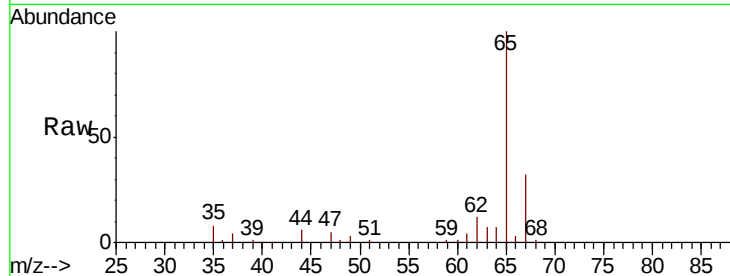
MDL05

Tot Ion: 62 Resp: 5493

Ion Ratio Lower Upper

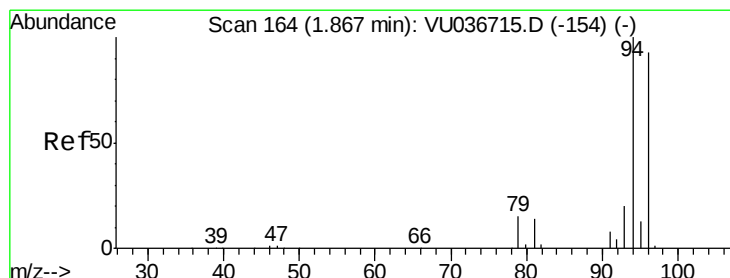
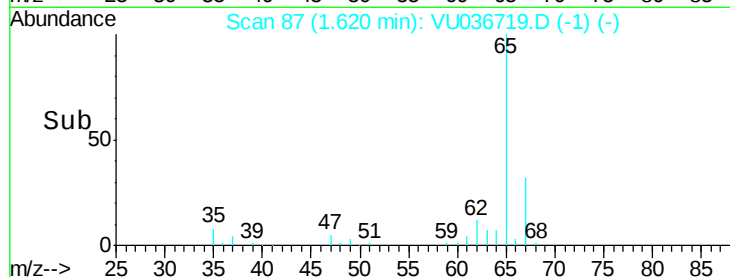
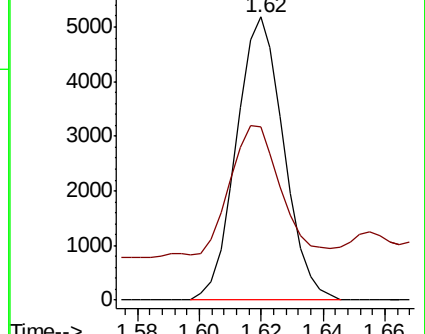
62 100

64 61.2 23.4 43.6#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 2.355 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036719.D

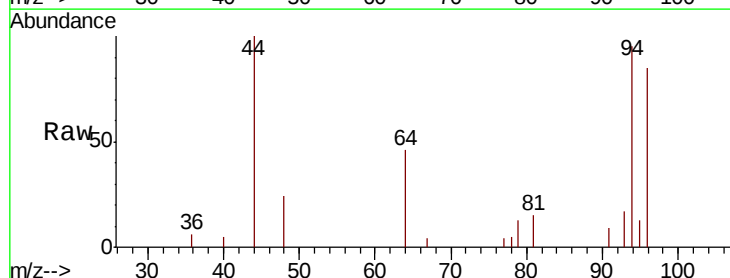
Acq: 11 Feb 2020 12:15

Tgt Ion: 94 Resp: 3388

Ion Ratio Lower Upper

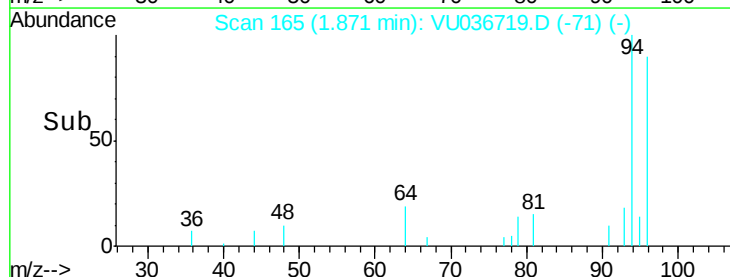
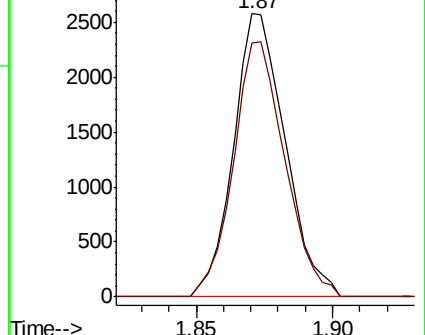
94 100

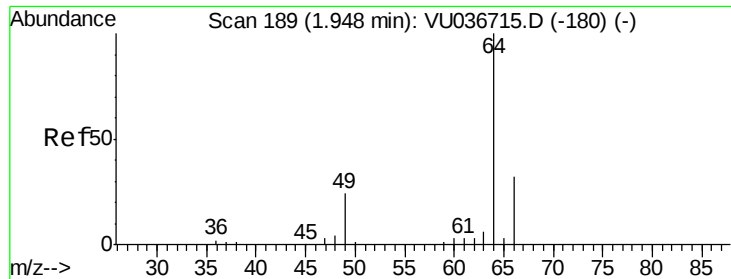
96 89.8 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0

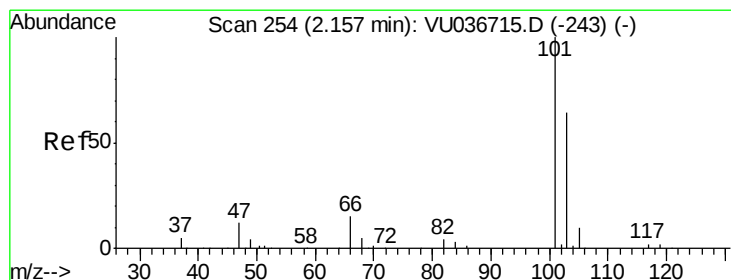
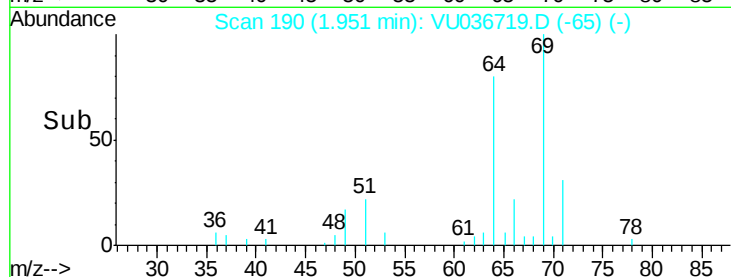
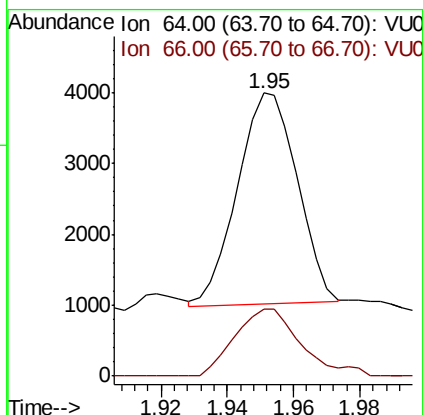
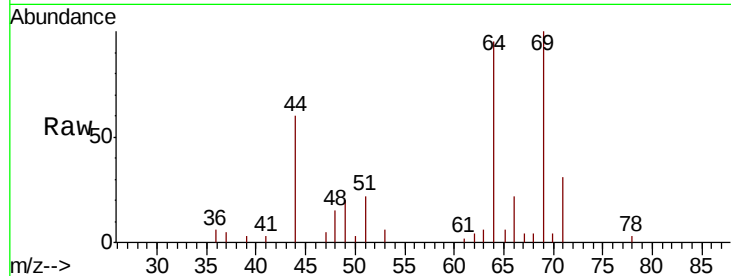




#8
Chloroethane
Concen: 2.564 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

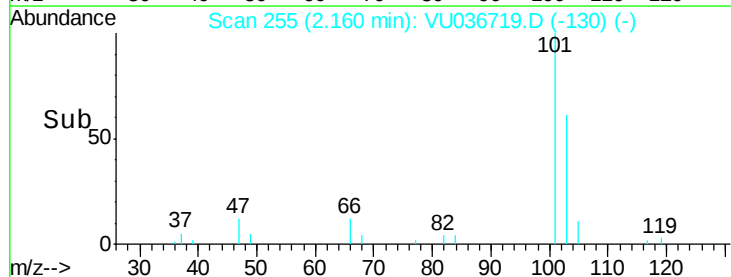
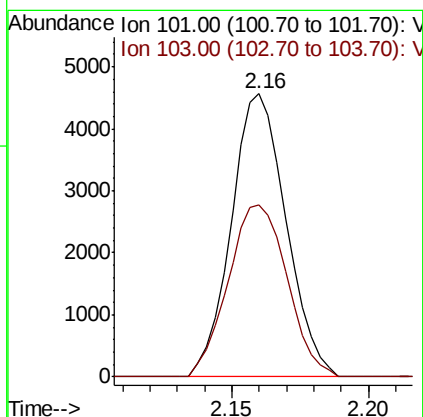
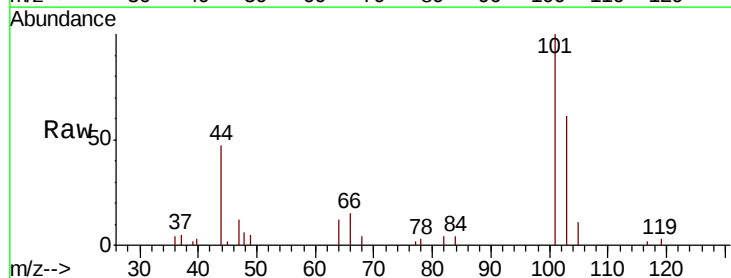
Instrument :
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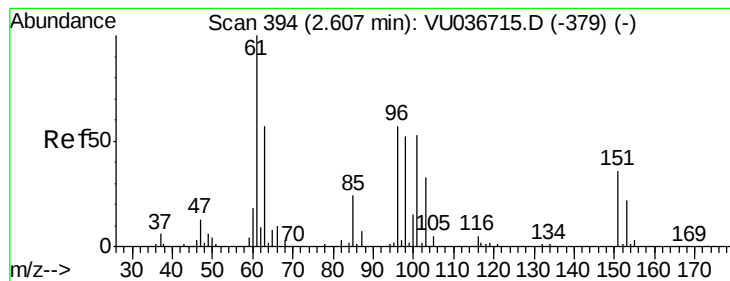
Tot Ion: 64 Resp: 3734
Ion Ratio Lower Upper
64 100
66 23.5 22.1 41.1



#9
Trichlorofluoromethane
Concen: 2.332 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Tgt Ion:101 Resp: 6359
Ion Ratio Lower Upper
101 100
103 65.4 51.6 77.4





#10

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

Concen: 2.786 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

MDL05

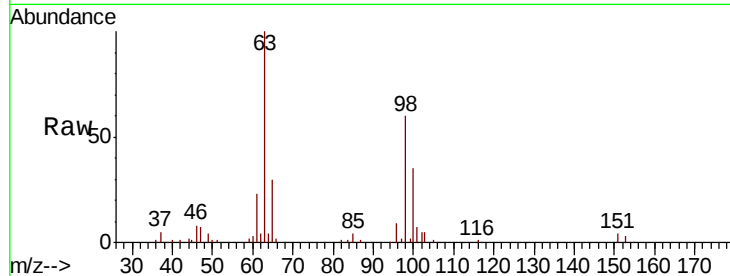
Tot Ion:101 Resp: 4551

Ion Ratio Lower Upper

101 100

85 42.3 36.5 54.7

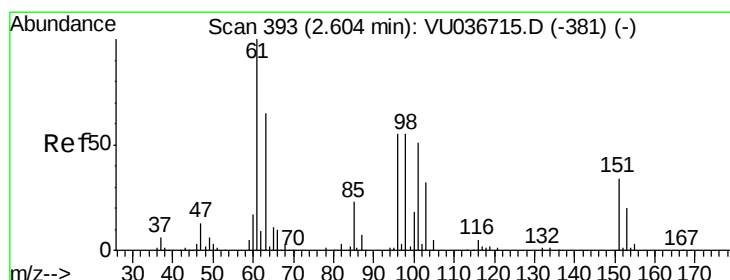
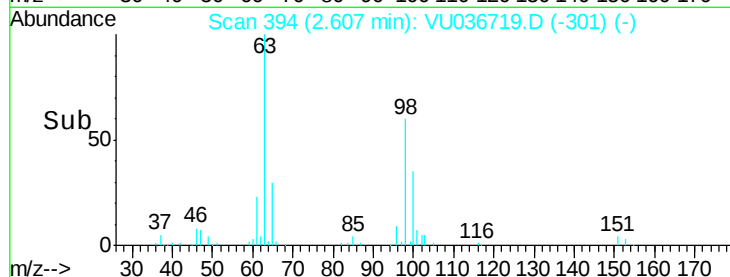
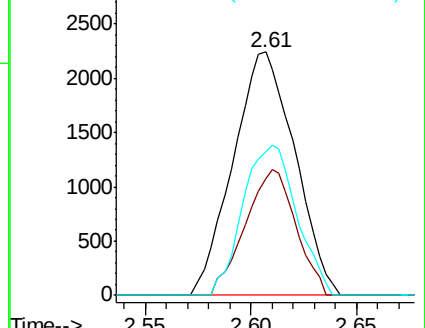
151 53.9 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VUC

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.908 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

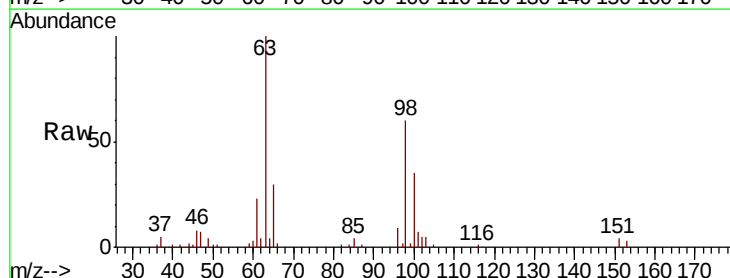
Tgt Ion: 96 Resp: 4624

Ion Ratio Lower Upper

96 100

61 250.1 124.4 231.0#

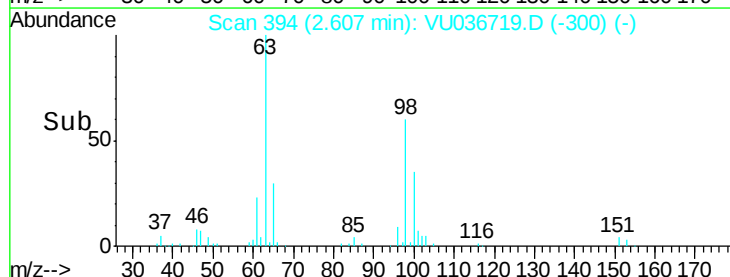
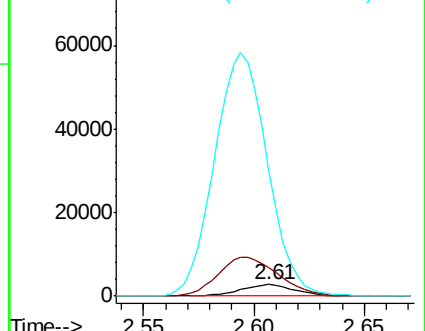
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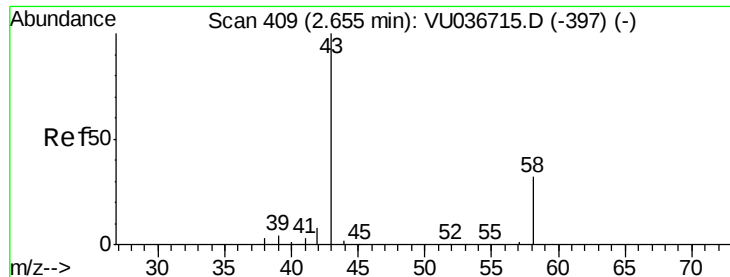


Abundance Ion 96.00 (95.70 to 96.70): VUC

Ion 61.00 (60.70 to 61.70): VUC

Ion 63.00 (62.70 to 63.70): VUC





#13

Acetone

Concen: 6.236 ug/L

RT: 2.66 min Scan# 410

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampled :

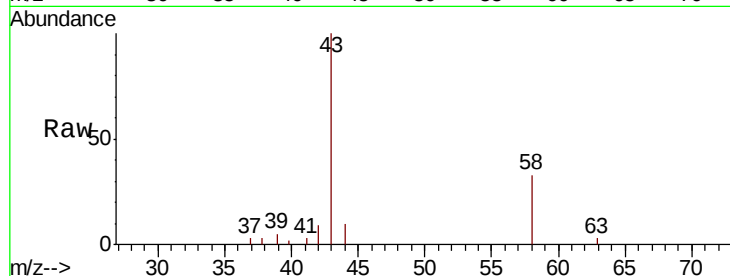
MDL05

Tot Ion: 43 Resp: 9812

Ion Ratio Lower Upper

43 100

58 32.7 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU036719.D (-316) (-)

Ion 58.00 (57.70 to 58.70): VU036719.D (-316) (-)

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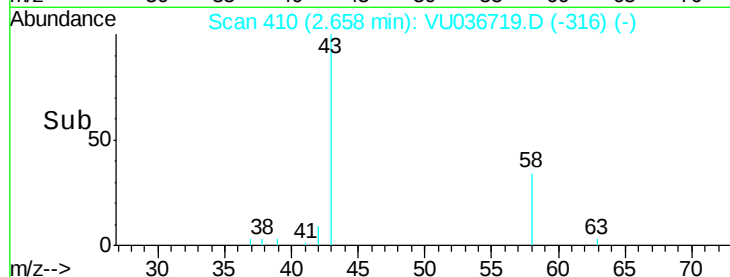
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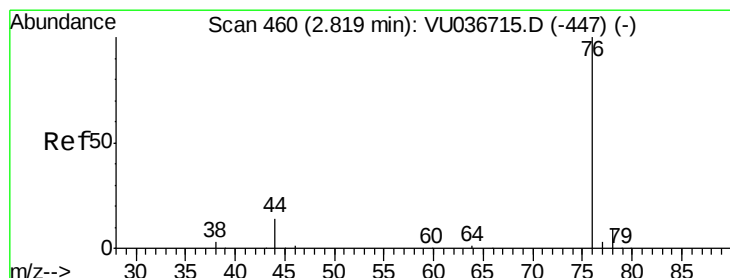
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2.66

2.66



Time-->



#14

Carbon disulfide

Concen: 2.285 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036719.D

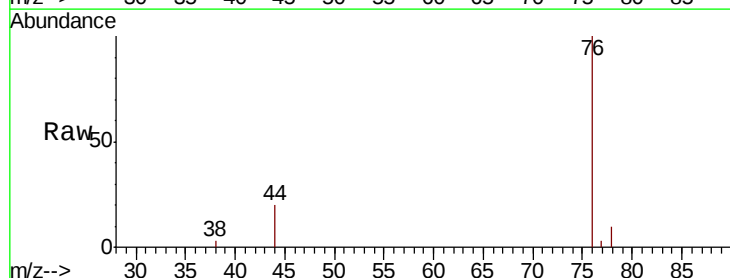
Acq: 11 Feb 2020 12:15

Tgt Ion: 76 Resp: 10858

Ion Ratio Lower Upper

76 100

78 9.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036719.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU036719.D (-367) (-)

2.82

2.82

2.82

2.82

2.82

2.82

2.82

2.82

2.82

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2.82

2.82

2.82

2.82

2.82

2.82

2.82

2.82

2.82

2.82

2.82

2.82

2.82

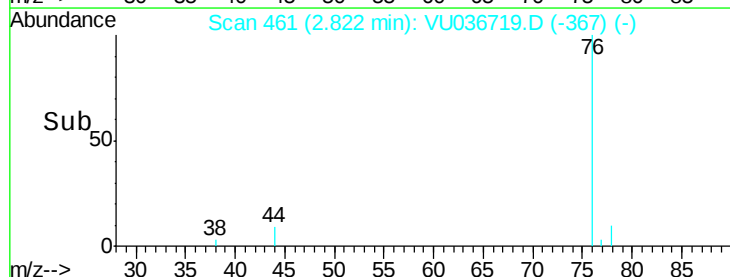
2.82

2.82

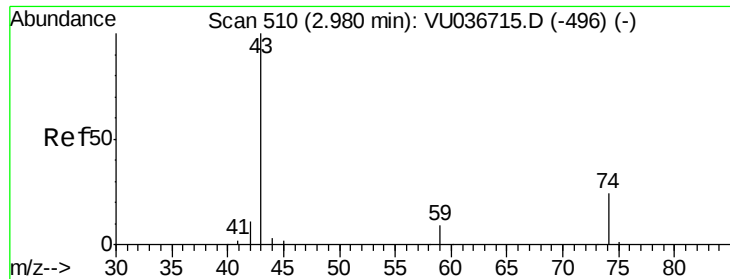
2.82

2.82

2.82



Time-->



#15

Methvl Acetate

Concen: 2.348 ug/L

RT: 2.99 min Scan# 513

Delta R.T. 0.01 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

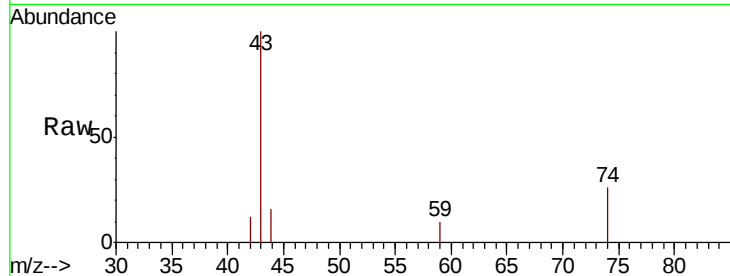
MDL05

Tot Ion: 43 Resp: 5340

Ion Ratio Lower Upper

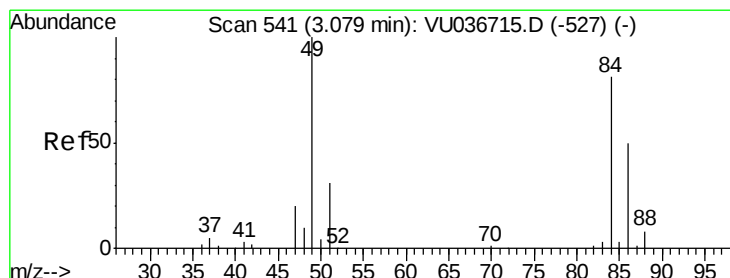
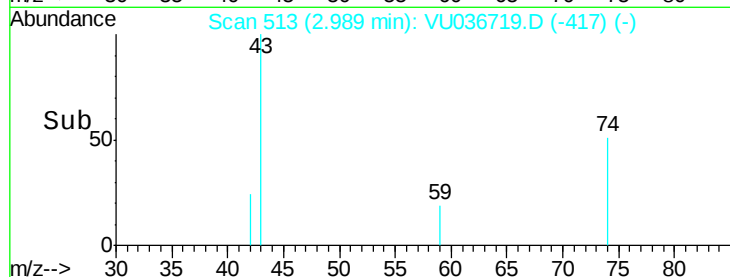
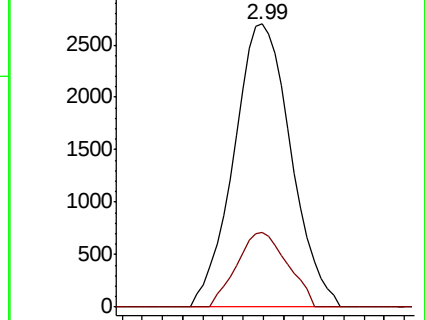
43 100

74 23.5 18.7 28.1



Abundance Ion 43.00 (42.70 to 43.70): VU036719.D (-417) (-)

Ion 74.00 (73.70 to 74.70): VU036719.D (-417) (-)



#16

Methylene chloride

Concen: 2.604 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

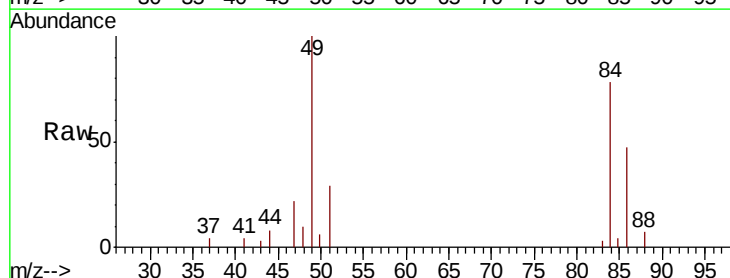
Tgt Ion: 84 Resp: 5111

Ion Ratio Lower Upper

84 100

86 60.6 44.4 82.5

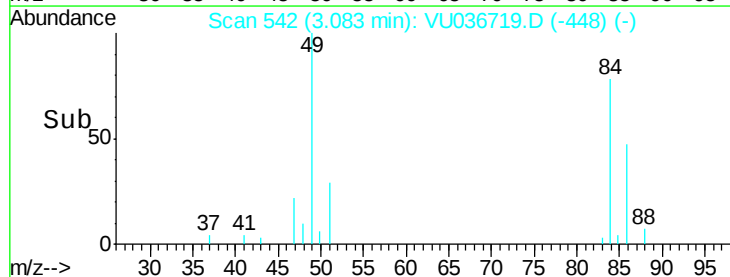
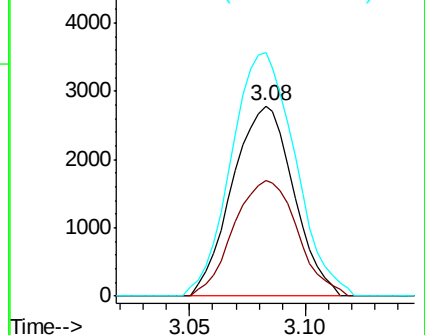
49 128.2 89.2 165.8

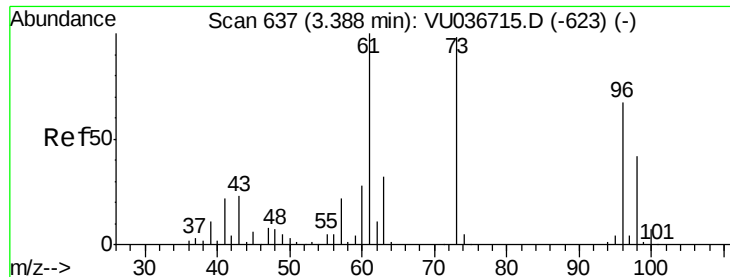


Abundance Ion 84.00 (83.70 to 84.70): VU036719.D (-448) (-)

Ion 86.00 (85.70 to 86.70): VU036719.D (-448) (-)

Ion 49.00 (48.70 to 49.70): VU036719.D (-448) (-)

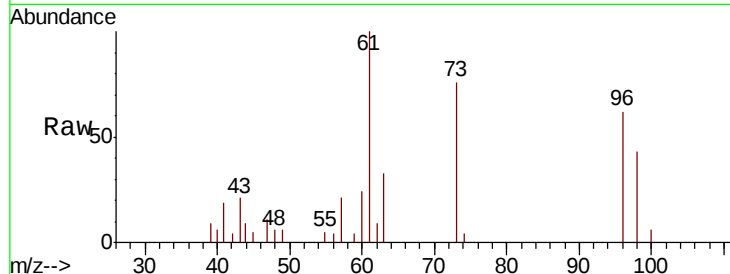




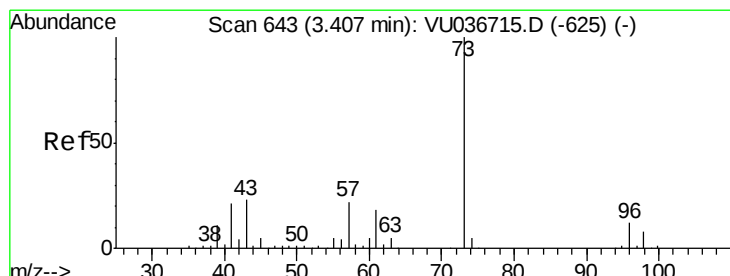
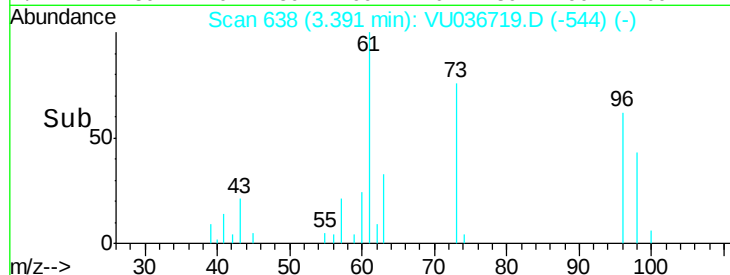
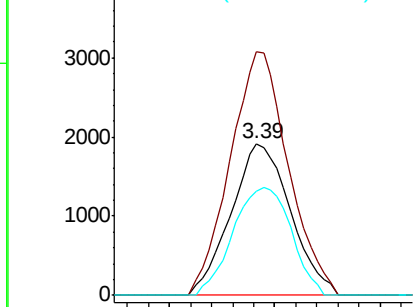
#17
trans-1,2-Dichloroethene
Concen: 2.219 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion: 96 Resp: 3755
Ion Ratio Lower Upper
96 100
61 160.3 103.4 192.0
98 68.9 45.4 84.2

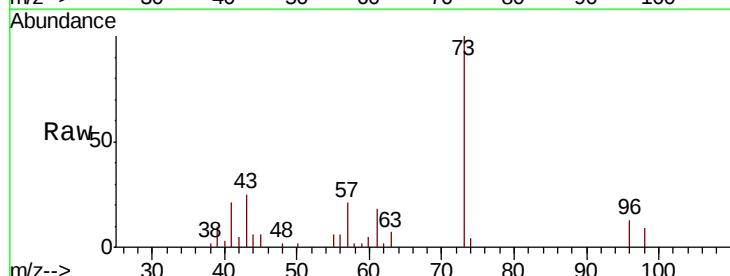


Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0

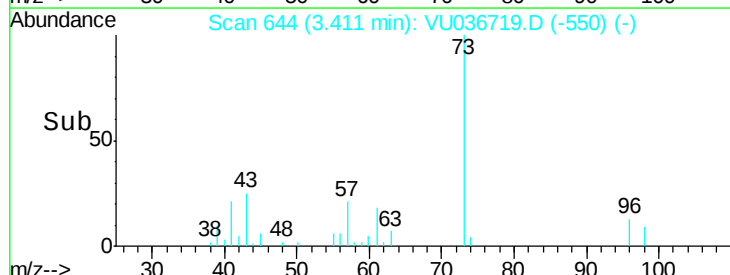
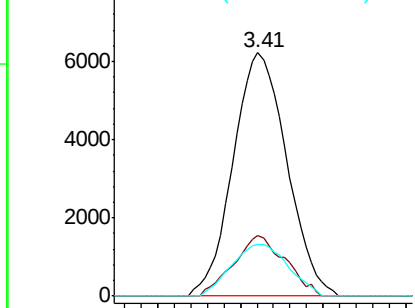


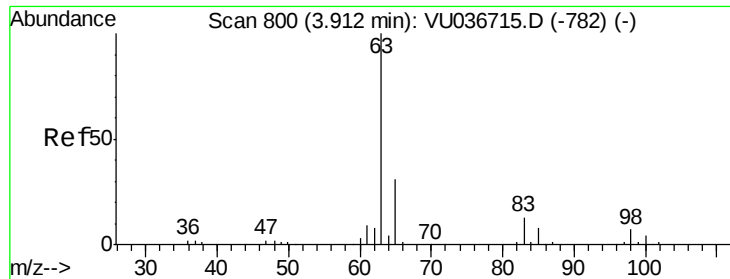
#18
Methyl tert-butyl Ether
Concen: 2.383 ug/L
RT: 3.41 min Scan# 644
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Tgt Ion: 73 Resp: 13991
Ion Ratio Lower Upper
73 100
43 23.8 18.6 28.0
57 22.6 18.3 27.5



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0

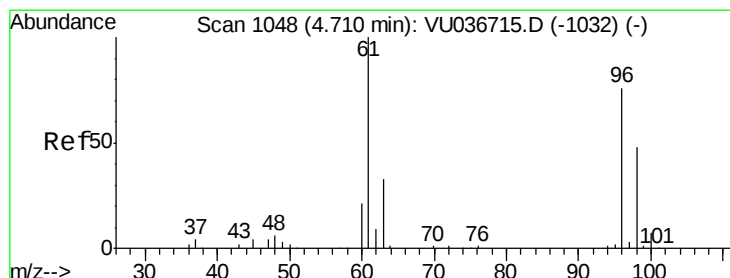
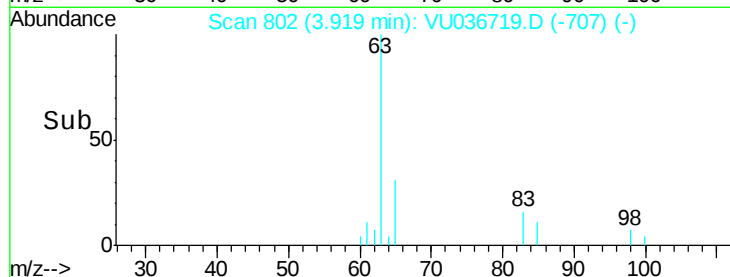
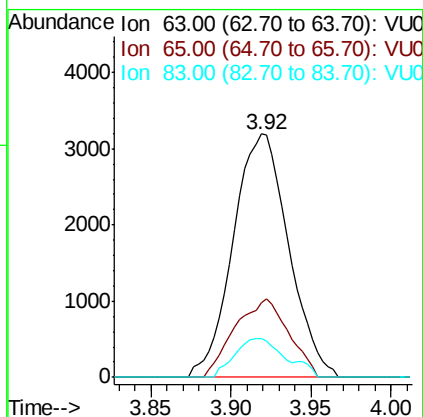
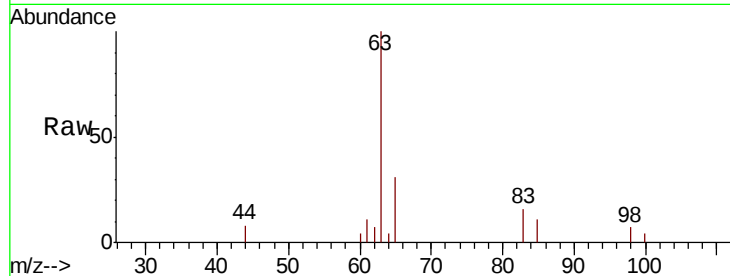




#19
 1,1-Dichloroethane
 Concen: 2.251 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. 0.01 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

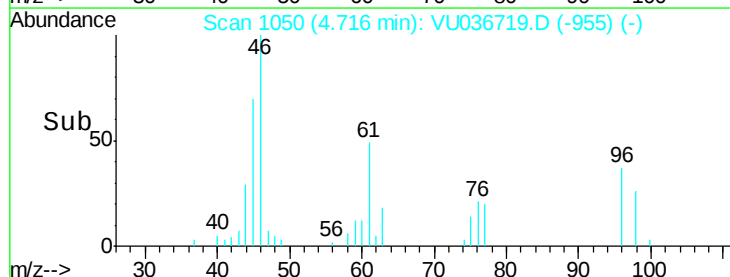
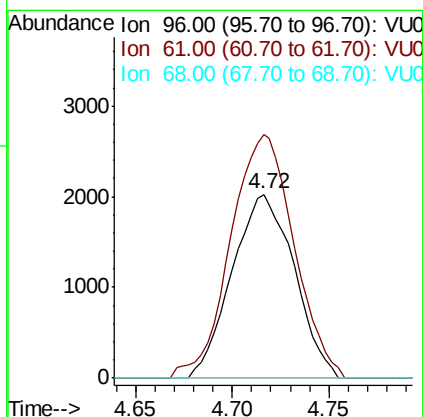
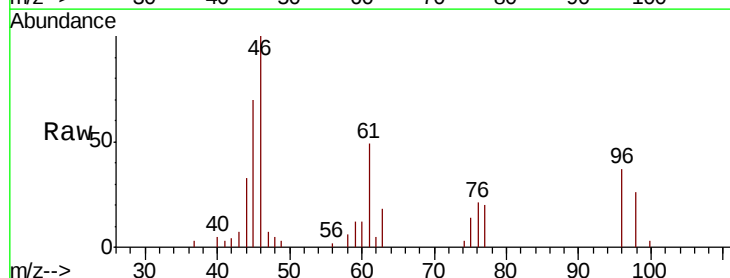
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

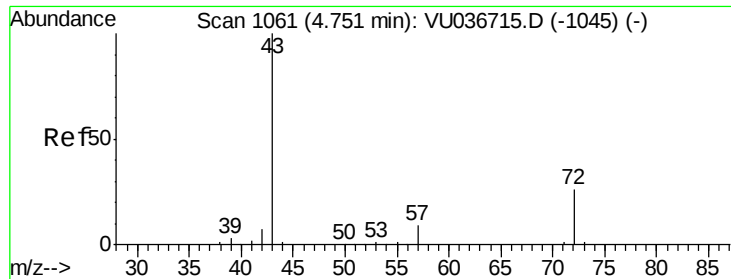
Tot Ion: 63 Resp: 7590
 Ion Ratio Lower Upper
 63 100
 65 30.6 22.0 40.8
 83 16.1 10.1 18.7



#20
 cis-1,2-Dichloroethene
 Concen: 2.347 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. 0.01 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

Tgt Ion: 96 Resp: 4524
 Ion Ratio Lower Upper
 96 100
 61 132.3 93.3 173.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 5.635 ug/L

RT: 4.76 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

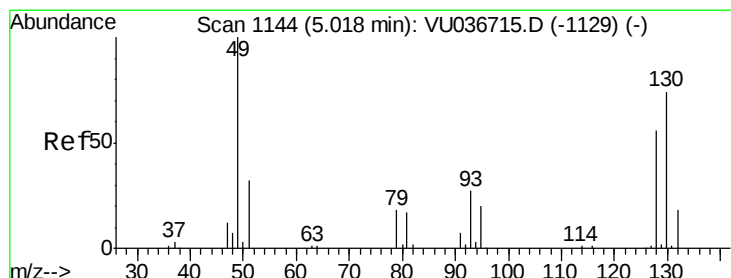
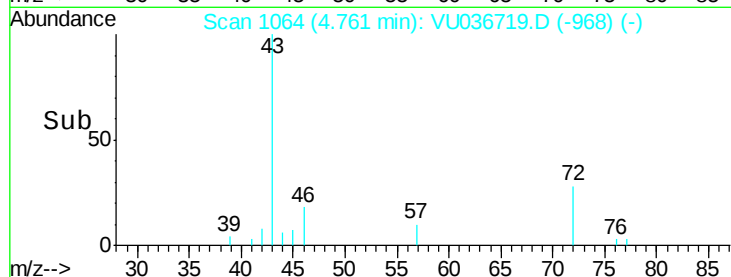
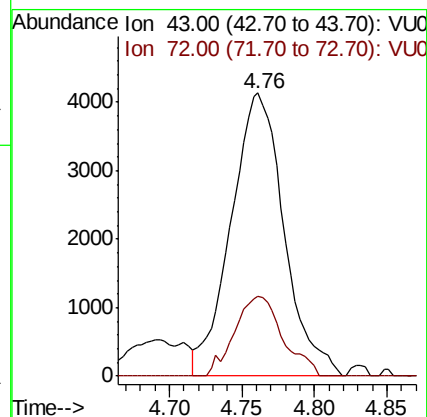
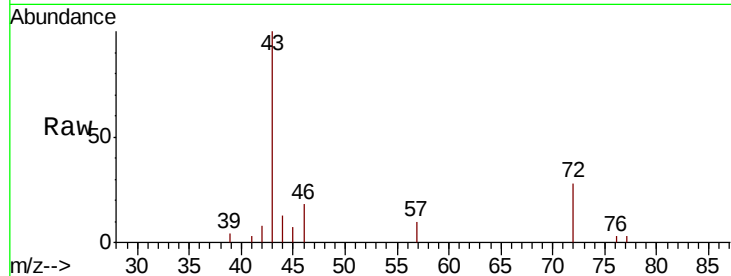
MDL05

Tot Ion: 43 Resp: 10523

Ion Ratio Lower Upper

43 100

72 24.4 13.6 40.7



#23

Bromochloromethane

Concen: 2.212 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.01 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Tgt Ion: 128 Resp: 1998

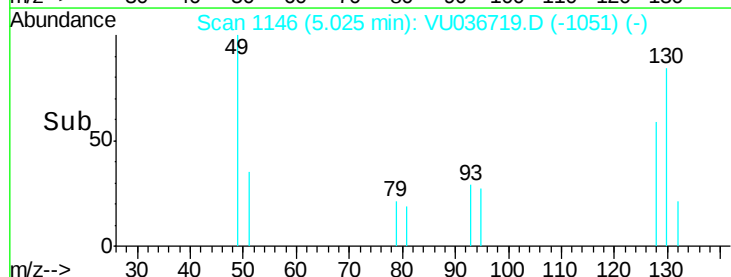
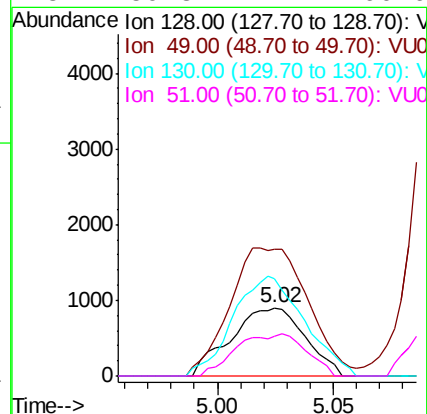
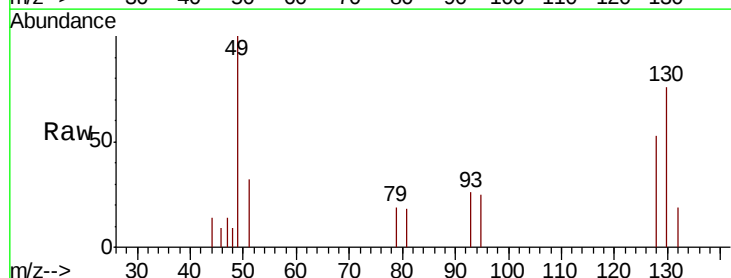
Ion Ratio Lower Upper

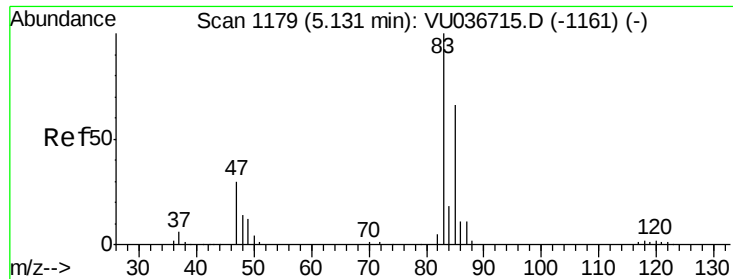
128 100

49 187.0 127.3 236.5

130 142.8 88.5 164.3

51 59.3 44.4 66.6

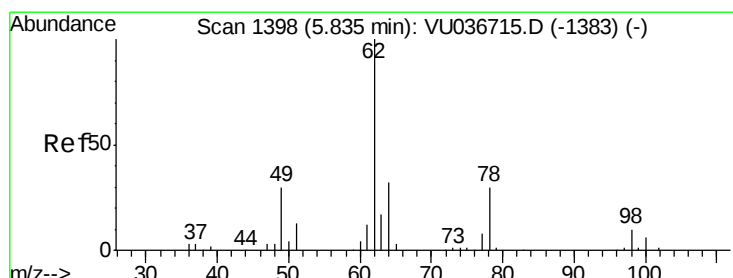
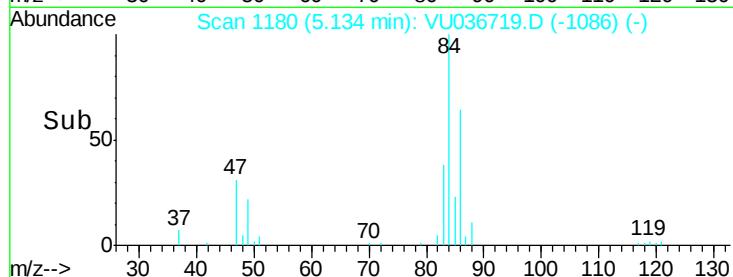
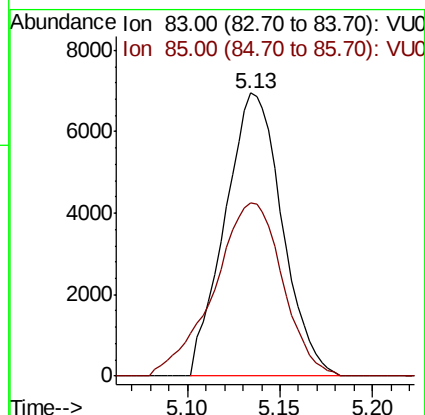
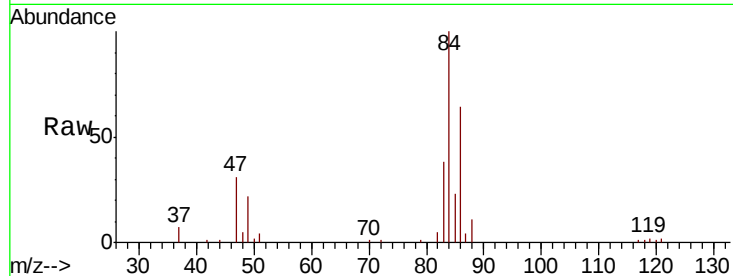




#25
Chloroform
Concen: 4.558 ug/L
RT: 5.13 min Scan# 1180
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

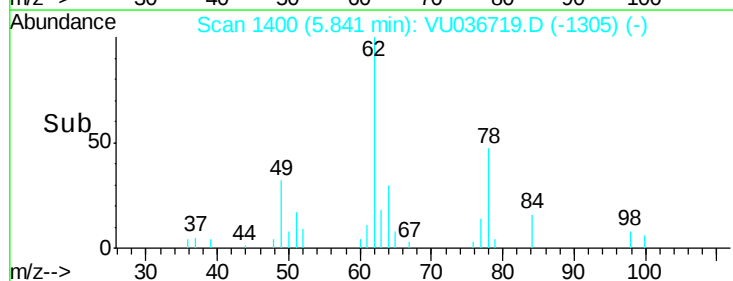
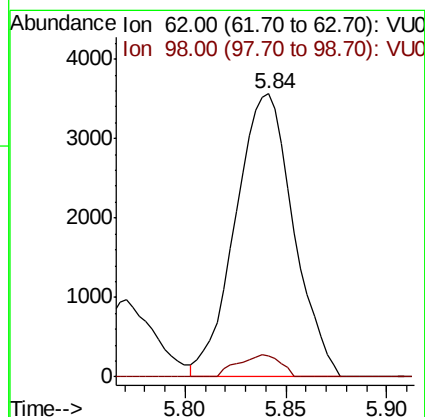
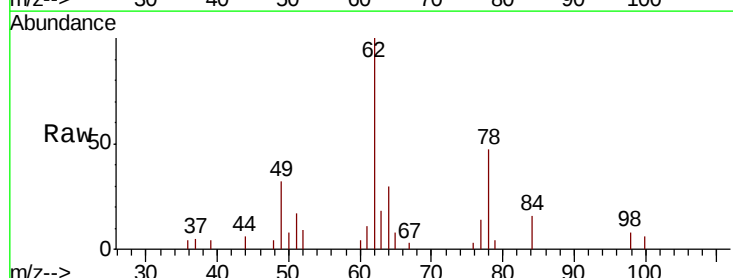
Instrument :
MSVOA_U
ClientSampled :
MDL05

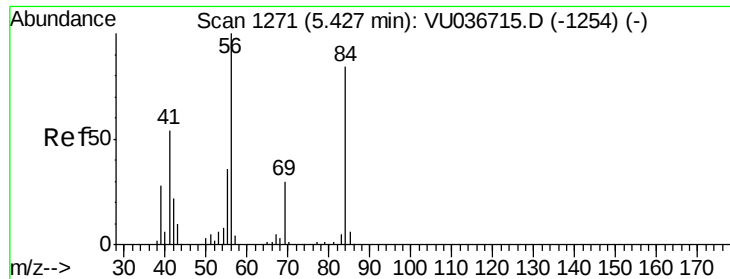
Tot Ion: 83 Resp: 14945
Ion Ratio Lower Upper
83 100
85 61.1 44.6 82.8



#27
1,2-Dichloroethane
Concen: 2.598 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.01 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Tgt Ion: 62 Resp: 7163
Ion Ratio Lower Upper
62 100
98 7.5 7.0 10.4

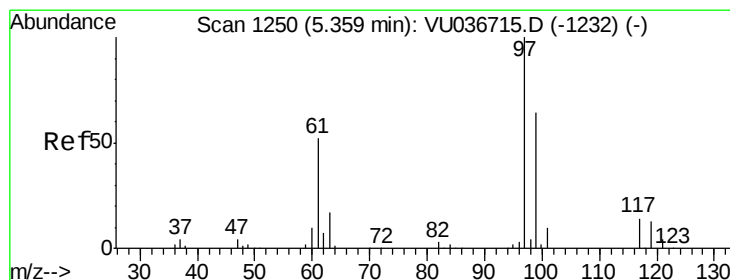
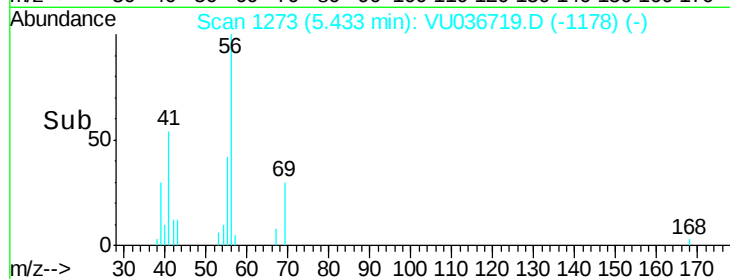
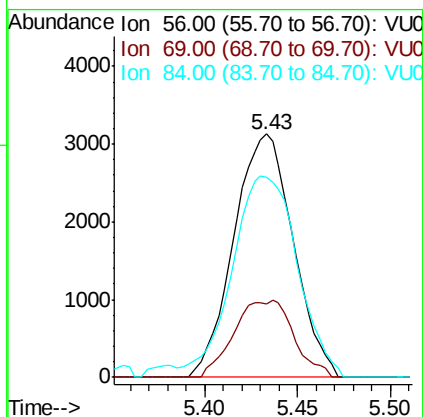
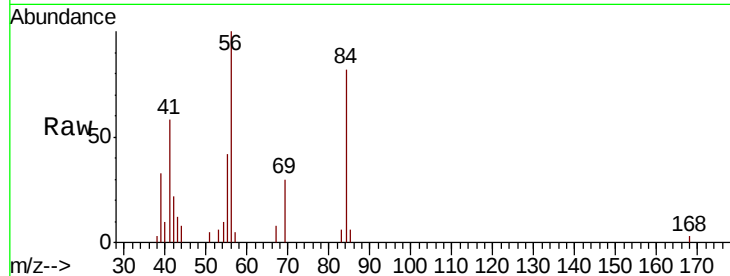




#29
Cyclohexane
Concen: 2.234 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

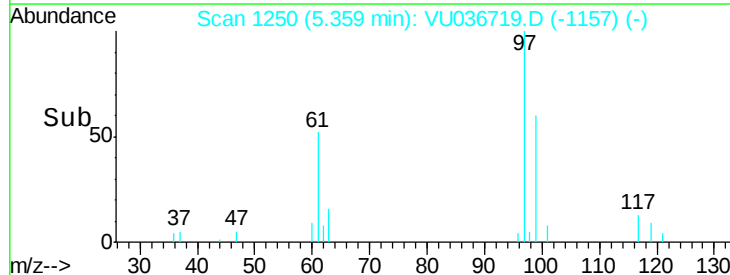
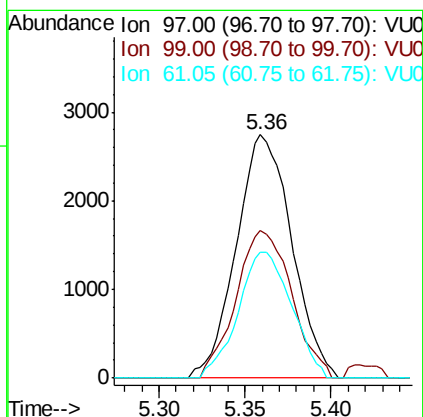
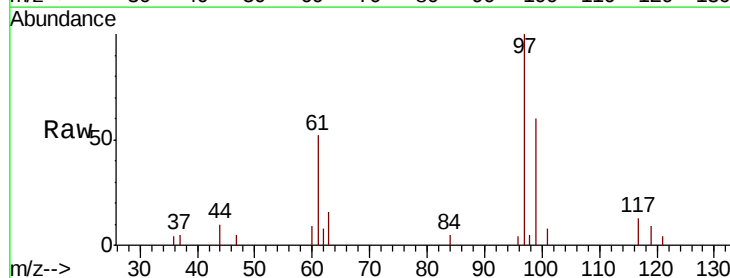
Instrument :
MSVOA_U
ClientSampleId :
MDL05

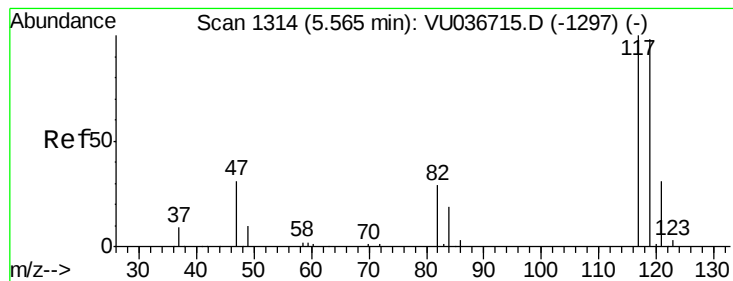
Tot Ion: 56 Resp: 6964
Ion Ratio Lower Upper
56 100
69 18.5 25.0 37.4#
84 91.0 68.2 102.2



#30
1,1,1-Trichloroethane
Concen: 2.389 ug/L
RT: 5.36 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Tgt Ion: 97 Resp: 6156
Ion Ratio Lower Upper
97 100
99 60.7 50.9 76.3
61 49.8 40.2 60.2





#31

Carbon tetrachloride

Concen: 2.308 ug/L

RT: 5.57 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

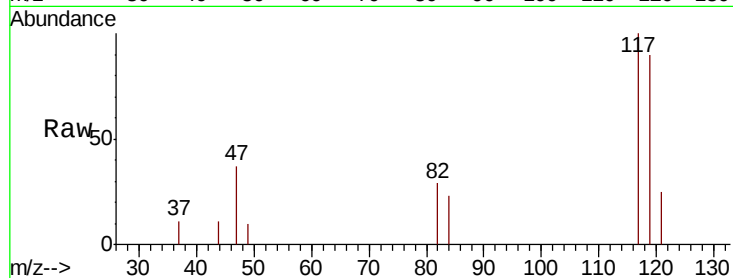
MDL05

Tot Ion:117 Resp: 4816

Ion Ratio Lower Upper

117 100

119 98.9 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

2500

2000

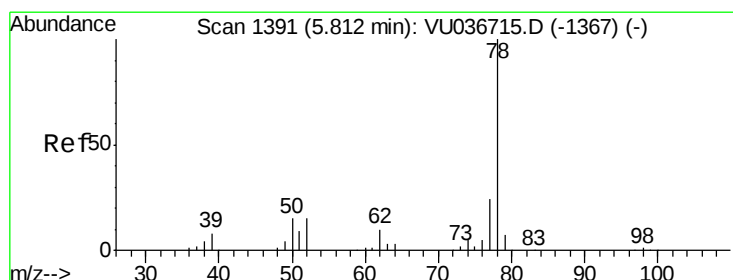
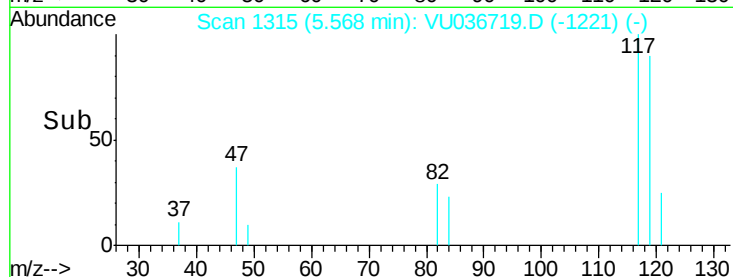
1500

1000

500

0

Time--> 5.50 5.55 5.60



#33

Benzene

Concen: 2.439 ug/L

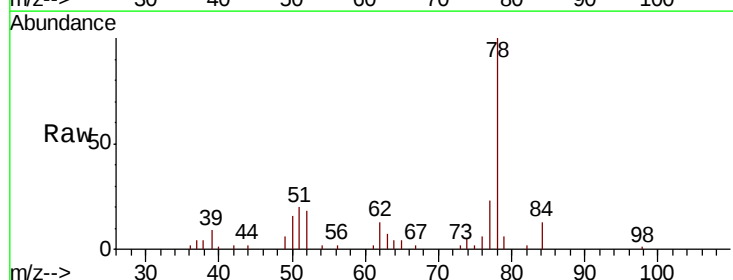
RT: 5.82 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Tgt Ion: 78 Resp: 17895



Abundance Ion 78.00 (77.70 to 78.70): VU0

10000

8000

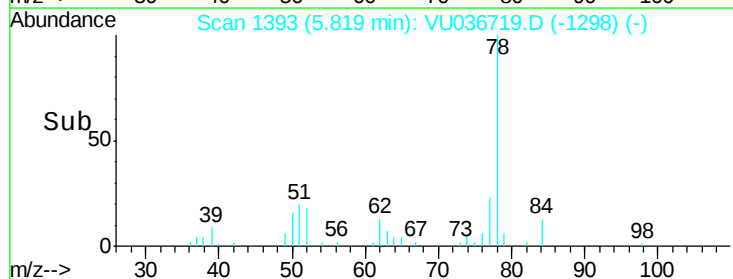
6000

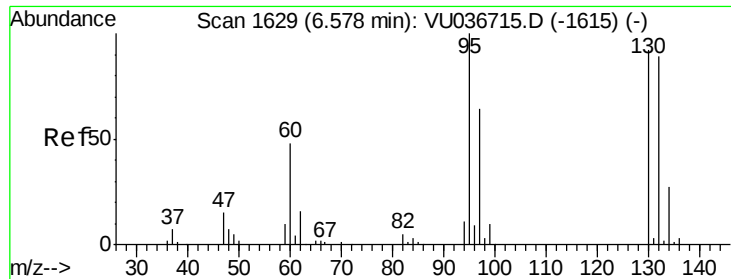
4000

2000

0

Time--> 5.75 5.80 5.85

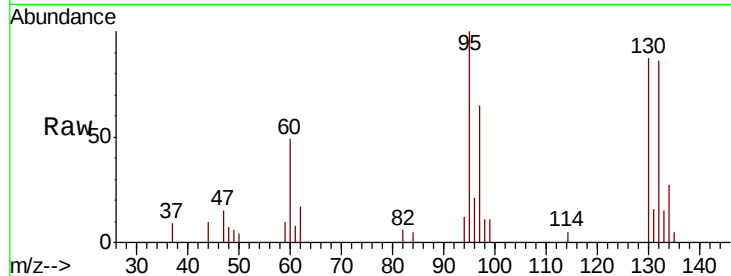




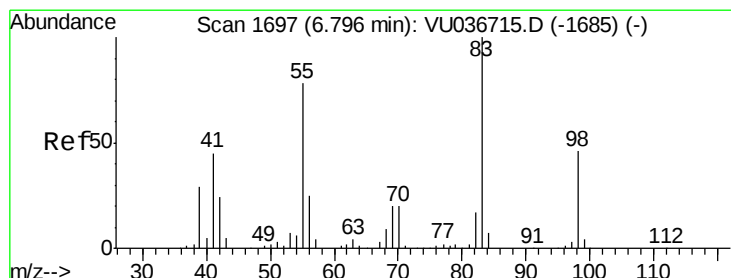
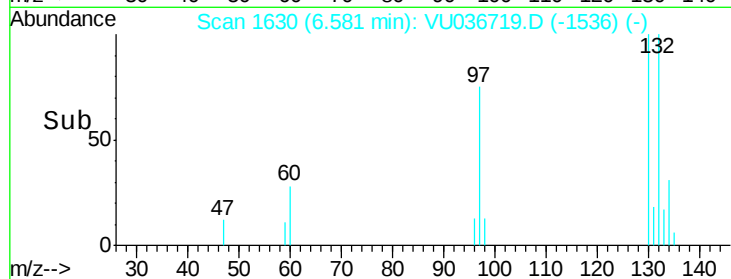
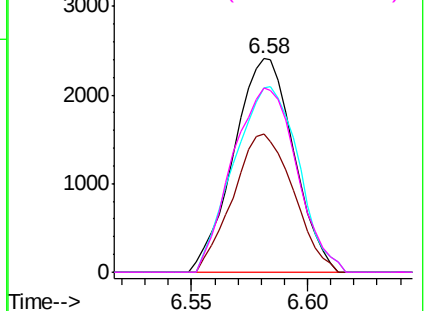
#34
 Trichloroethene
 Concen: 2.388 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion: 95 Resp: 4333
 Ion Ratio Lower Upper
 95 100
 97 64.7 44.5 82.7
 132 86.5 59.6 110.8
 130 86.6 65.0 120.8

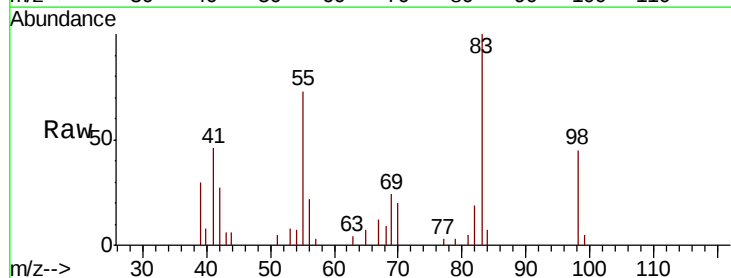


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

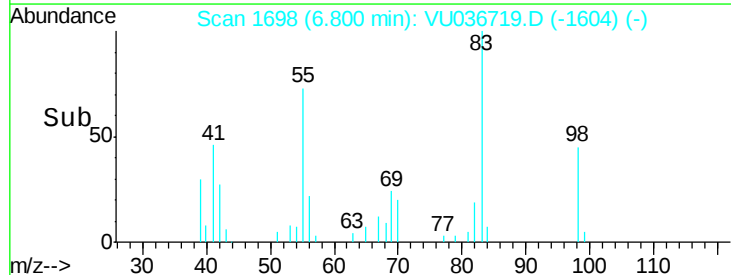
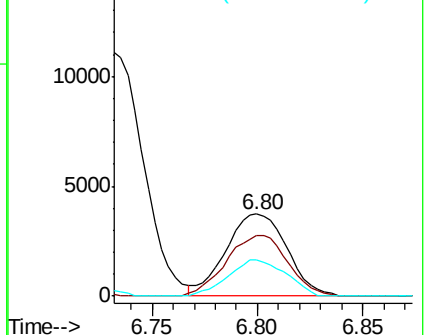


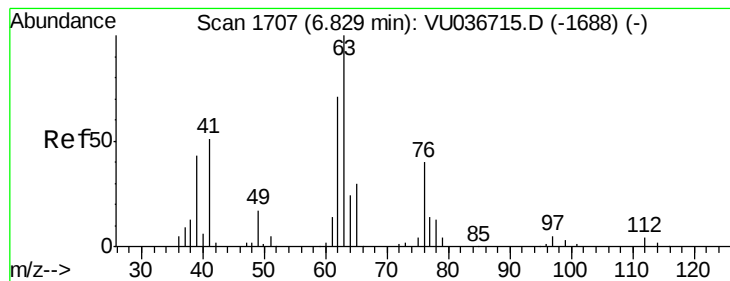
#35
 Methylcyclohexane
 Concen: 2.359 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

Tgt Ion: 83 Resp: 7540
 Ion Ratio Lower Upper
 83 100
 55 73.8 61.2 91.8
 98 41.5 35.4 53.0



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 2.495 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

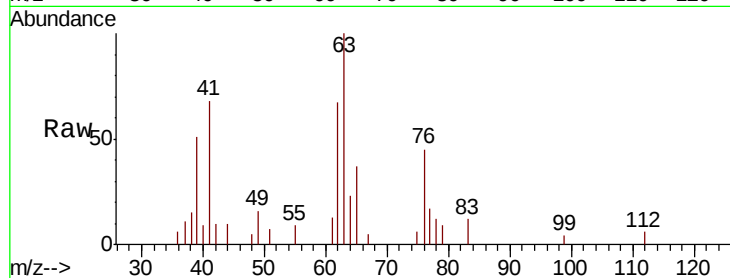
MDL05

Tot Ion: 63 Resp: 4937

Ion Ratio Lower Upper

63 100

112 1.6 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU036719.D (-1614) (-)

Ion 112.00 (111.70 to 112.70): VU036719.D (-1614) (-)

6.83

2500

2000

1500

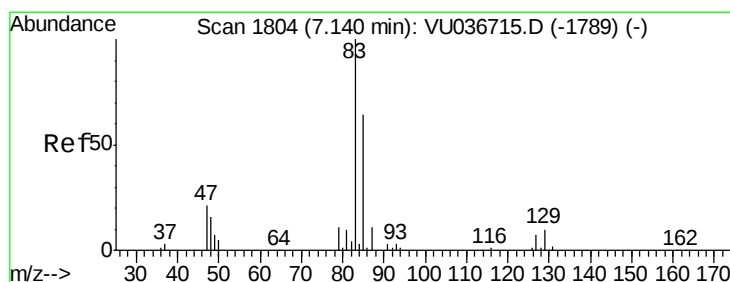
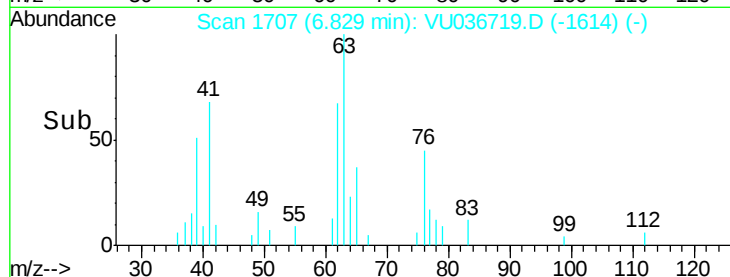
1000

500

0

6.80 6.85

Time-->



#38

Bromodichloromethane

Concen: 2.270 ug/L

RT: 7.14 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

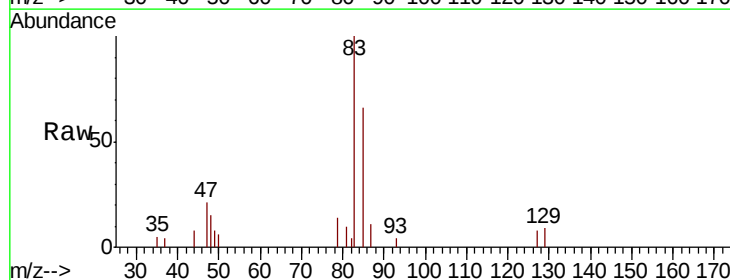
Tgt Ion: 83 Resp: 5459

Ion Ratio Lower Upper

83 100

85 65.8 43.9 81.5

127 8.4 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VU036719.D (-1711) (-)

Ion 85.00 (84.70 to 85.70): VU036719.D (-1711) (-)

Ion 127.00 (126.70 to 127.70): VU036719.D (-1711) (-)

7.14

4000

3000

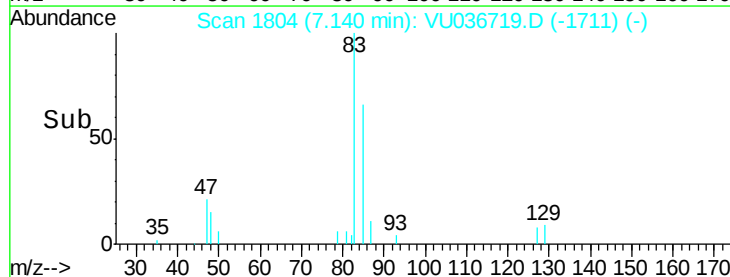
2000

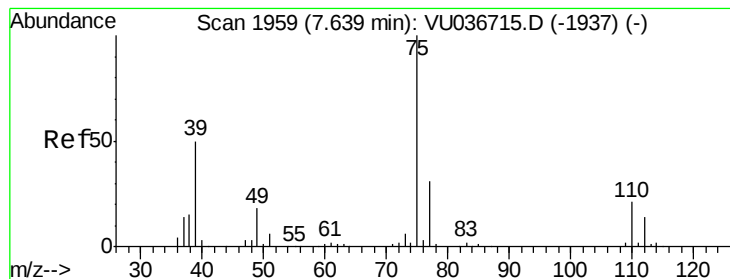
1000

0

7.10 7.15 7.20

Time-->



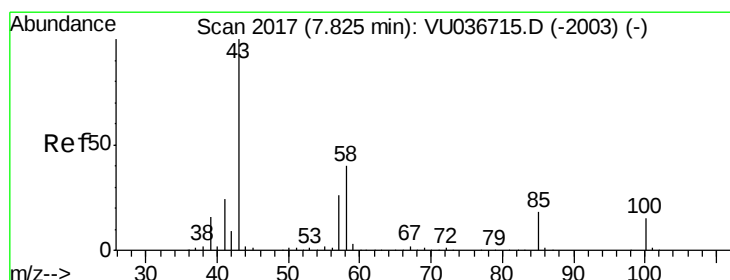
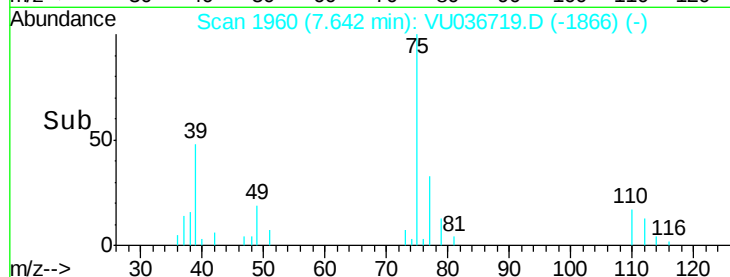
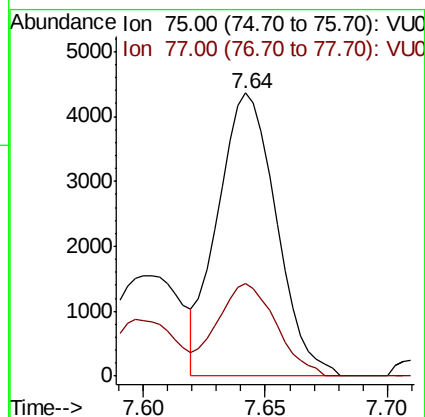
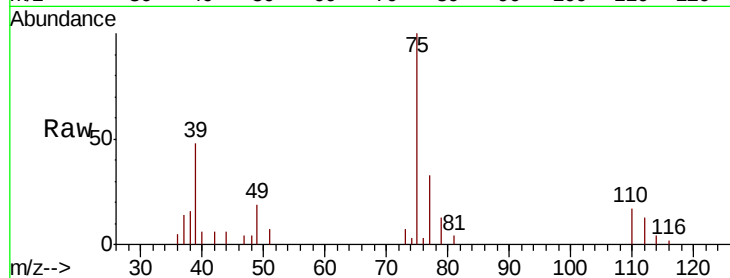


#39

cis-1,3-Dichloropropene
Concen: 2.308 ug/L
RT: 7.64 min Scan# 1960
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL05

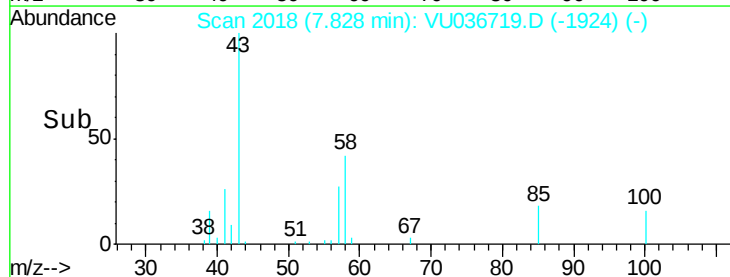
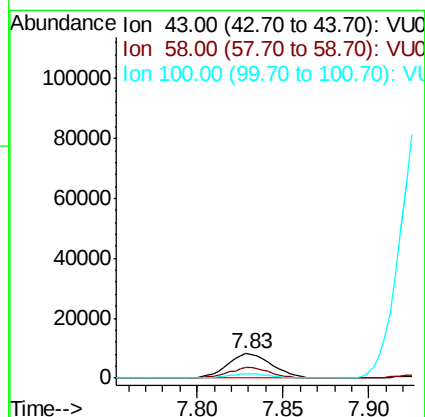
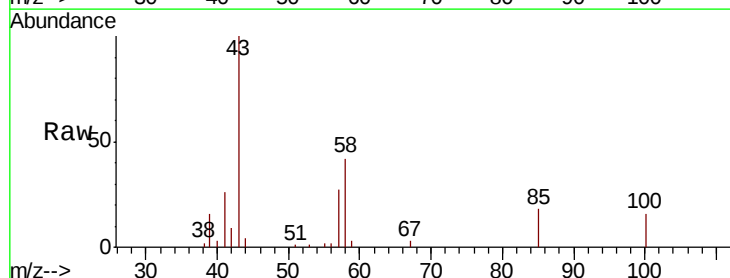
Tot Ion: 75 Resp: 7298
Ion Ratio Lower Upper
75 100
77 32.9 22.3 41.5

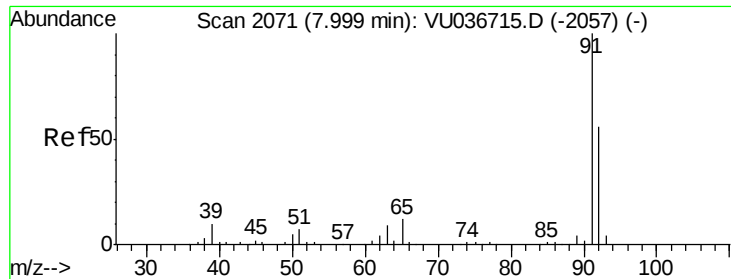


#40

4-Methyl-2-pentanone
Concen: 4.719 ug/L
RT: 7.83 min Scan# 2018
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Tgt Ion: 43 Resp: 14753
Ion Ratio Lower Upper
43 100
58 40.6 31.0 46.6
100 15.8 11.4 17.2





#42

Toluene

Concen: 2.473 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

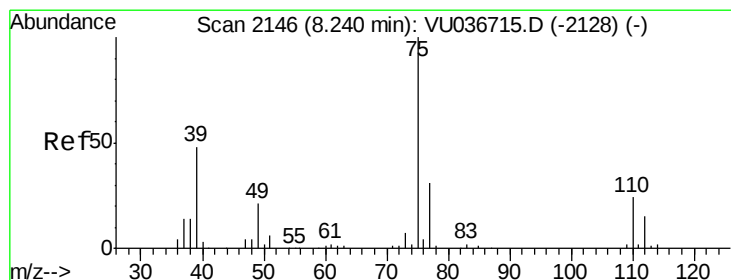
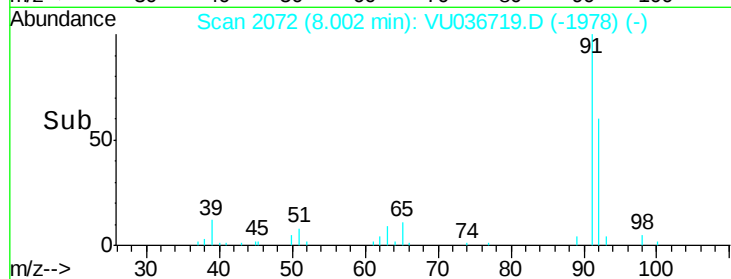
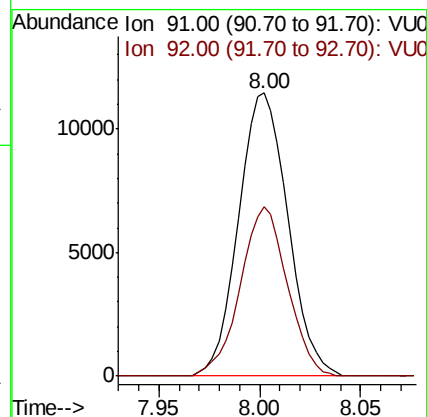
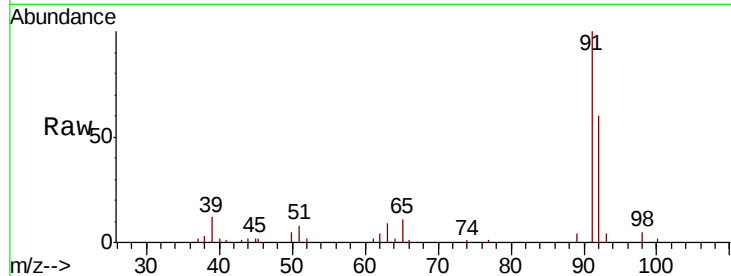
MDL05

Tot Ion: 91 Resp: 19607

Ion Ratio Lower Upper

91 100

92 59.7 39.5 73.3



#44

trans-1,3-Dichloropropene

Concen: 2.281 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036719.D

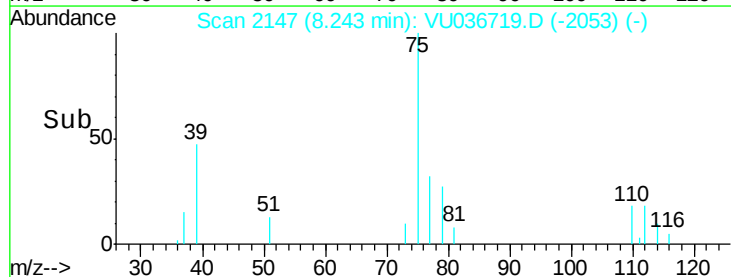
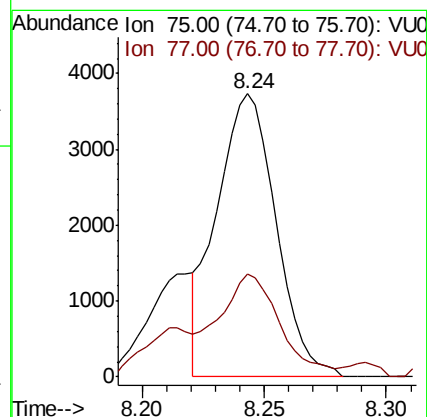
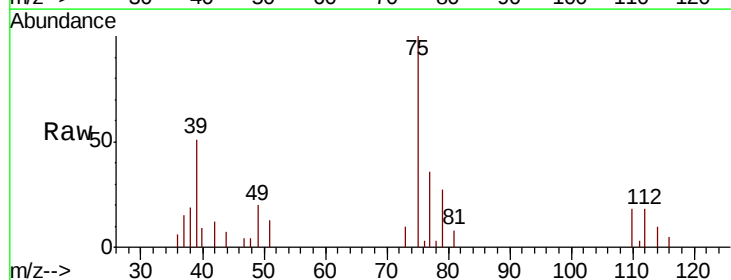
Acq: 11 Feb 2020 12:15

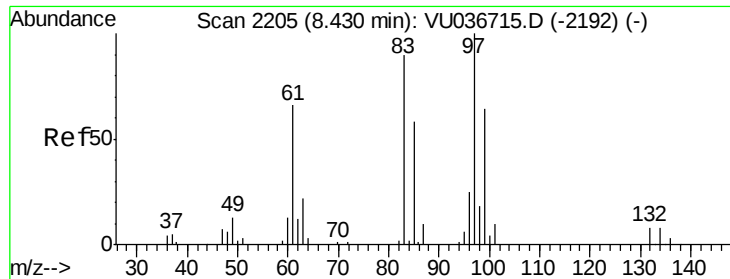
Tgt Ion: 75 Resp: 6301

Ion Ratio Lower Upper

75 100

77 36.3 22.6 42.0

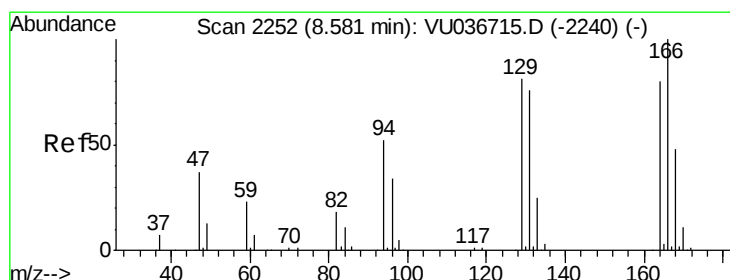
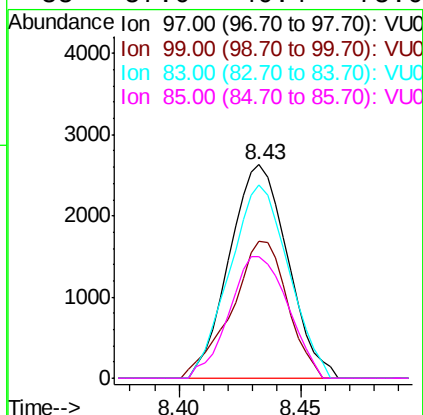
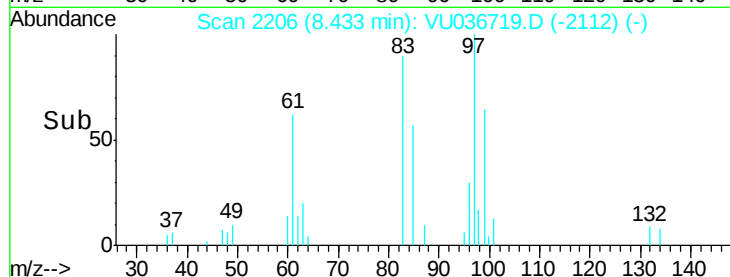
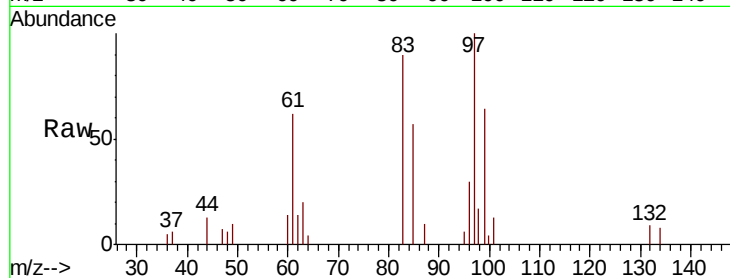




#45
1,1,2-Trichloroethane
Concen: 2.422 ug/L
RT: 8.43 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

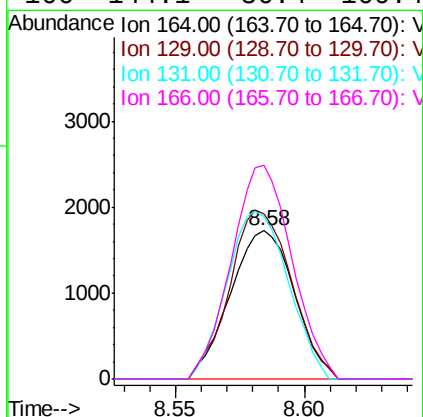
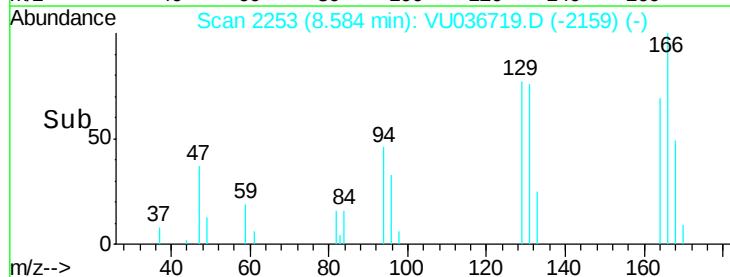
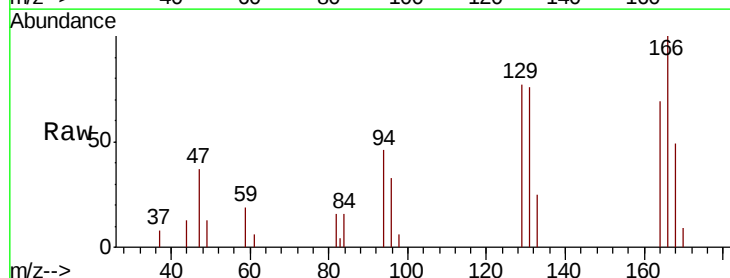
Instrument :
MSVOA_U
ClientSampleId :
MDL05

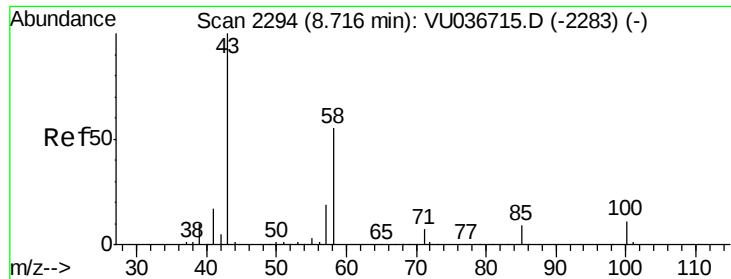
Tot Ion: 97 Resp: 4373
Ion Ratio Lower Upper
97 100
99 64.4 42.6 79.0
83 90.3 61.1 113.5
85 57.0 40.4 75.0



#46
Tetrachloroethene
Concen: 2.345 ug/L
RT: 8.58 min Scan# 2253
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Tgt Ion: 164 Resp: 2986
Ion Ratio Lower Upper
164 100
129 111.5 71.0 131.9
131 109.9 66.6 123.6
166 144.1 86.4 160.4

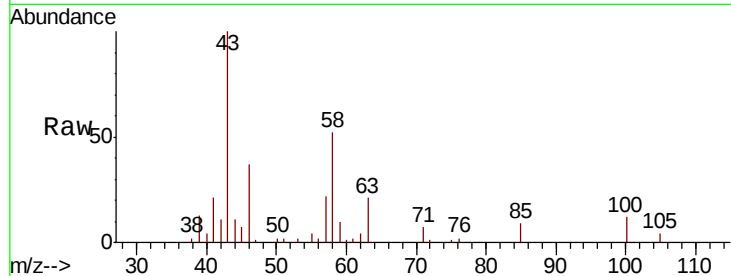




#48
2-Hexanone
Concen: 4.987 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion:	43.00	Resp:	12719
Ion	Ratio	Lower	Upper
43	100		
58	54.8	43.6	65.4
57	22.4	15.5	23.3
100	11.1	9.0	13.4

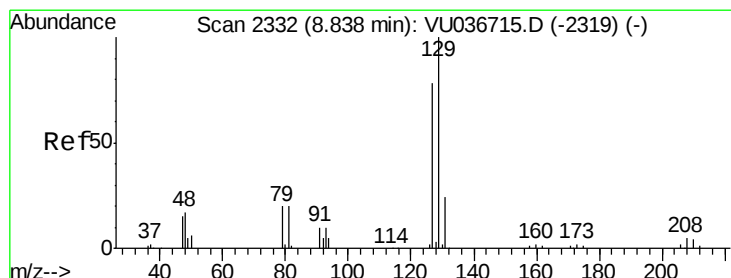
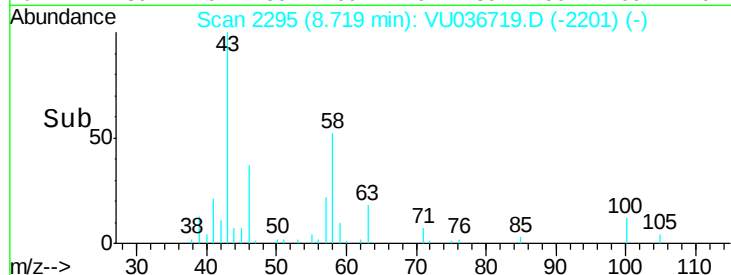
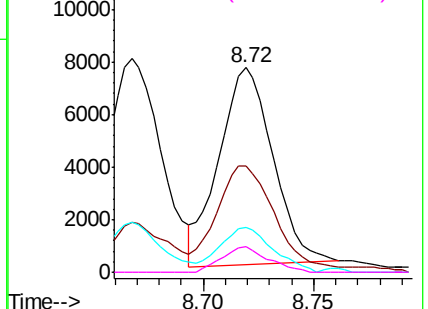


Abundance Ion 43.00 (42.70 to 43.70): VU036719.D (-2294) (-)

Ion 58.00 (57.70 to 58.70): VU036719.D (-2294) (-)

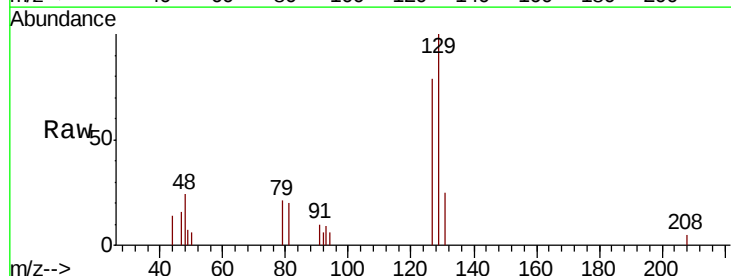
Ion 57.00 (56.70 to 57.70): VU036719.D (-2294) (-)

Ion 100.00 (99.70 to 100.70): VU036719.D (-2294) (-)



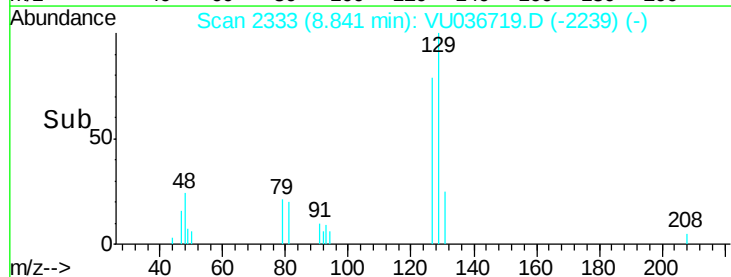
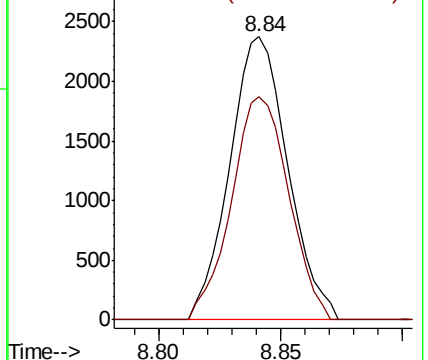
#49
Dibromochloromethane
Concen: 2.220 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

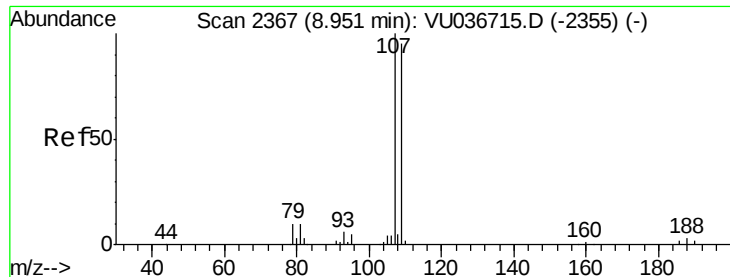
Tgt Ion:	129.00	Resp:	3919
Ion	Ratio	Lower	Upper
129	100		
127	78.8	53.6	99.6



Abundance Ion 129.00 (128.70 to 129.70): VU036719.D (-2332) (-)

Ion 127.00 (126.70 to 127.70): VU036719.D (-2332) (-)

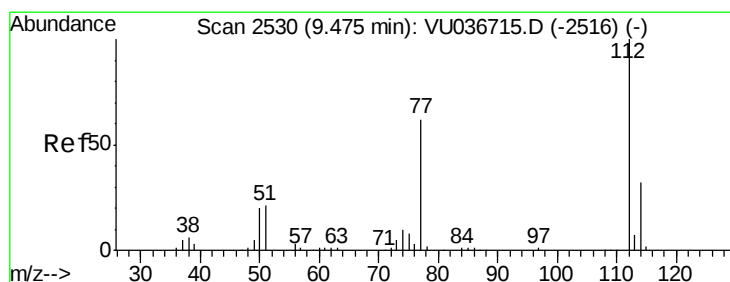
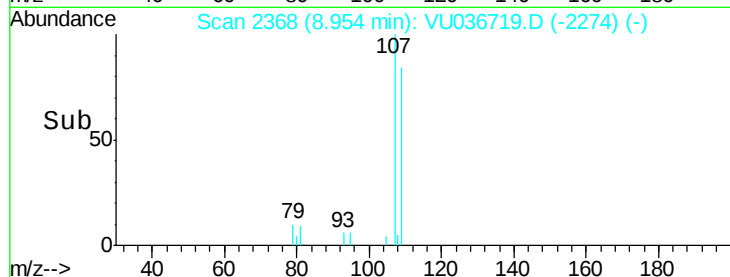
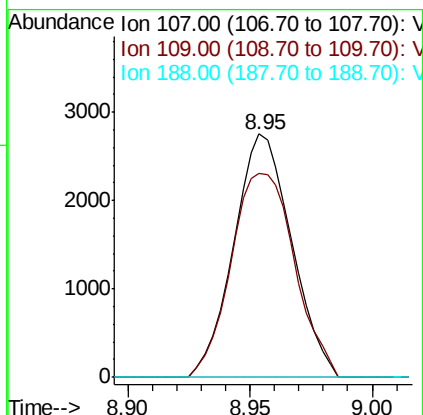
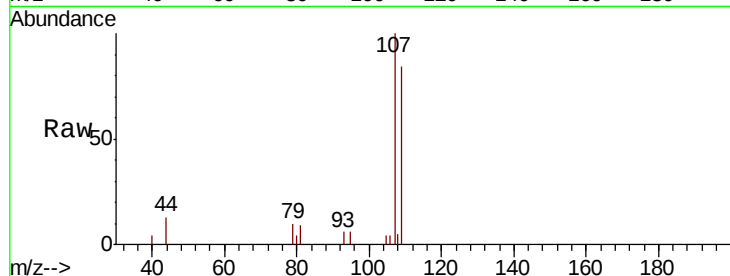




#50
 1,2-Dibromoethane
 Concen: 2.385 ug/L
 RT: 8.95 min Scan# 2367
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

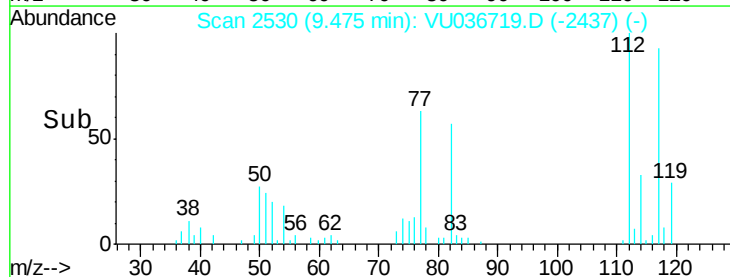
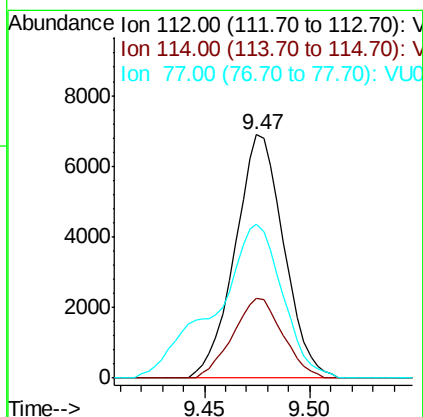
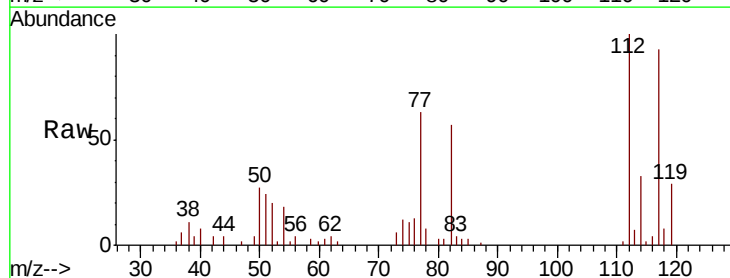
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

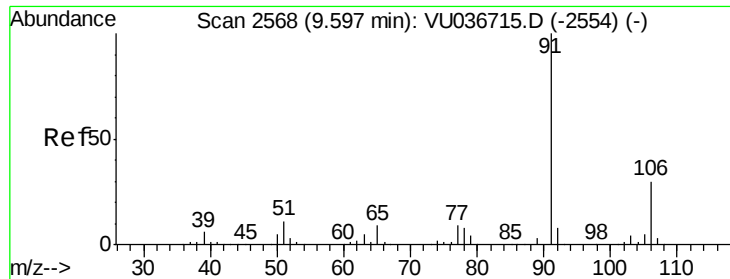
Tot Ion:107 Resp: 4523
 Ion Ratio Lower Upper
 107 100
 109 83.7 65.8 122.2
 188 0.0 2.5 3.7#



#51
 Chlorobenzene
 Concen: 2.318 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

Tgt Ion:112 Resp: 11070
 Ion Ratio Lower Upper
 112 100
 114 32.9 22.7 42.1
 77 63.2 50.6 75.8





#52

Ethylbenzene

Concen: 2.302 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

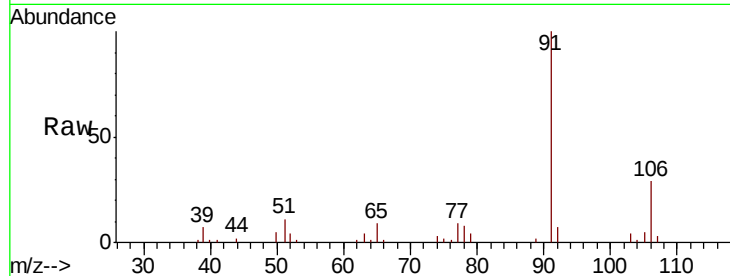
MDL05

Tot Ion: 91 Resp: 20061

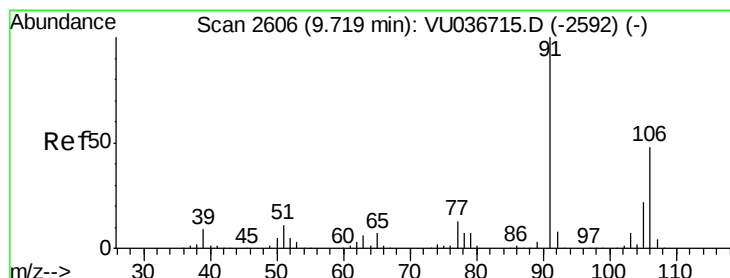
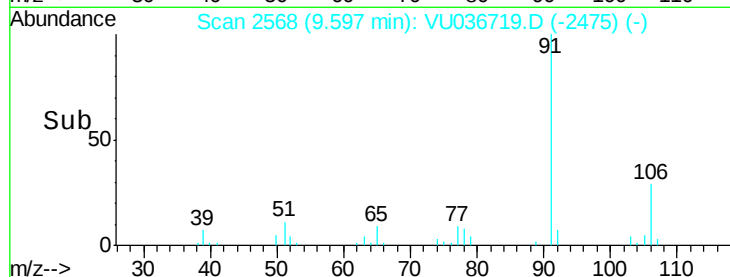
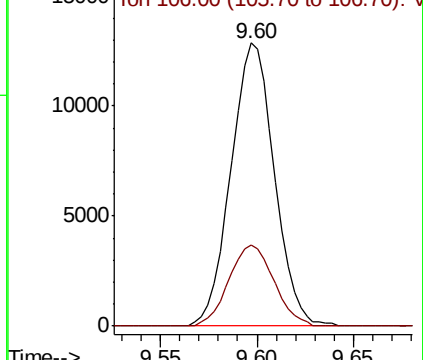
Ion Ratio Lower Upper

91 100

106 28.7 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU036719.D (-2475) (-)



#53

m,p-Xylene

Concen: 2.249 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036719.D

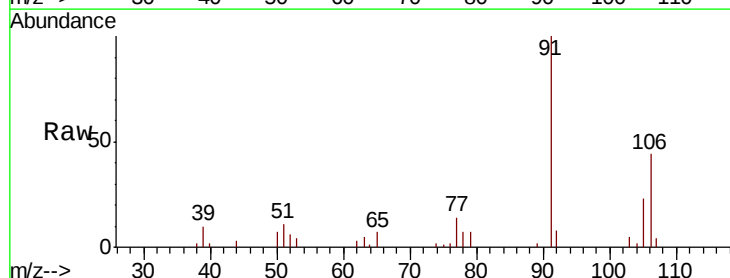
Acq: 11 Feb 2020 12:15

Tgt Ion: 106 Resp: 7230

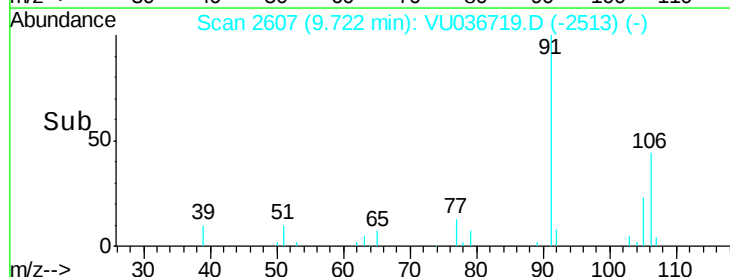
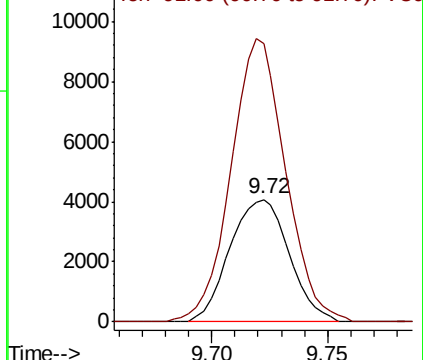
Ion Ratio Lower Upper

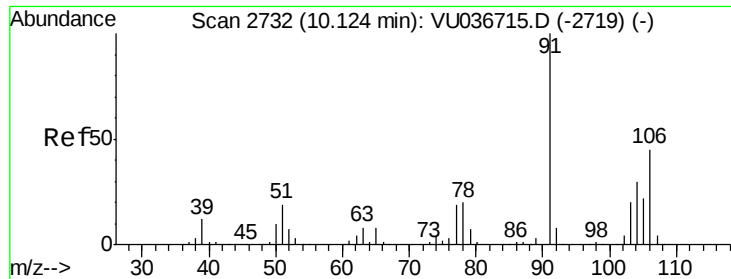
106 100

91 227.3 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036719.D (-2513) (-)





#54

o-xylene

Concen: 2.293 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

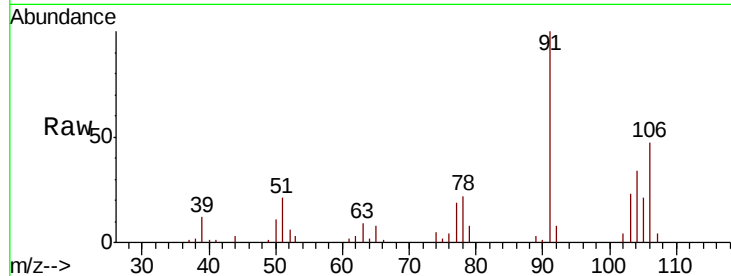
MDL05

Tot Ion:106 Resp: 7300

Ion Ratio Lower Upper

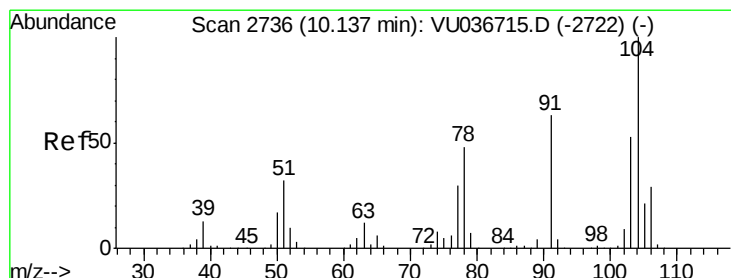
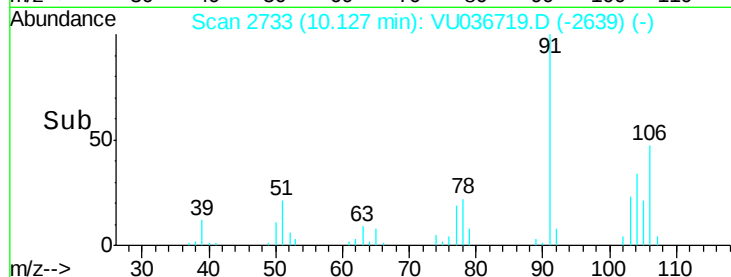
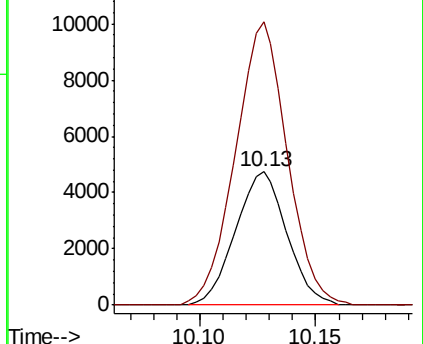
106 100

91 212.3 156.0 289.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.179 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036719.D

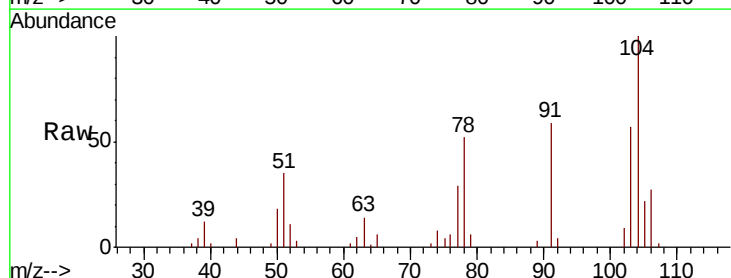
Acq: 11 Feb 2020 12:15

Tgt Ion:104 Resp: 11565

Ion Ratio Lower Upper

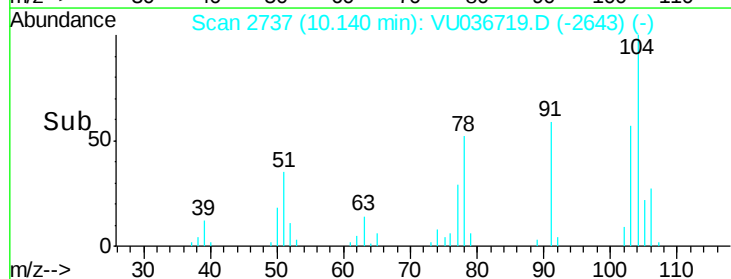
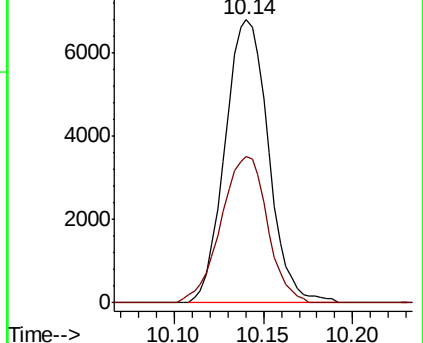
104 100

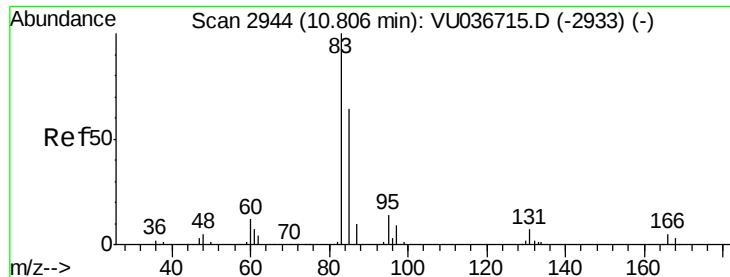
78 51.7 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

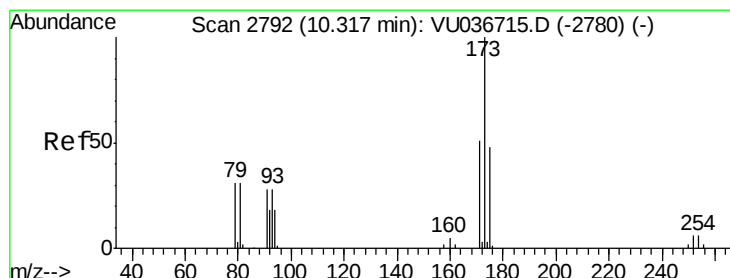
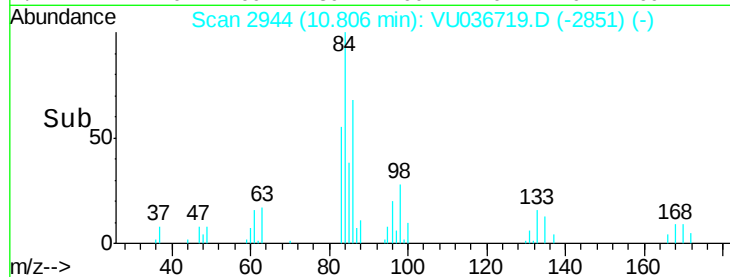
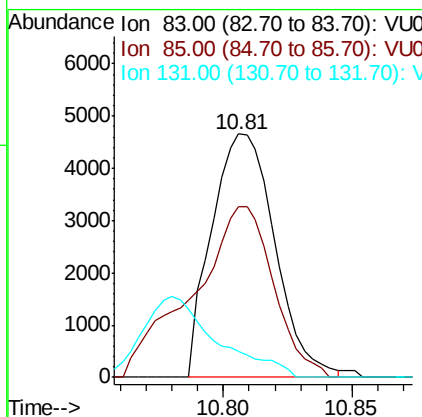
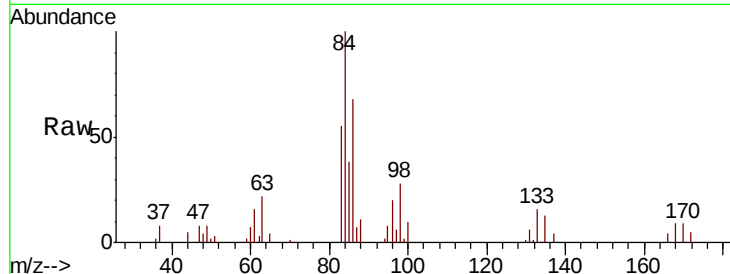




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.444 ug/L
 RT: 10.81 min Scan# 2944
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

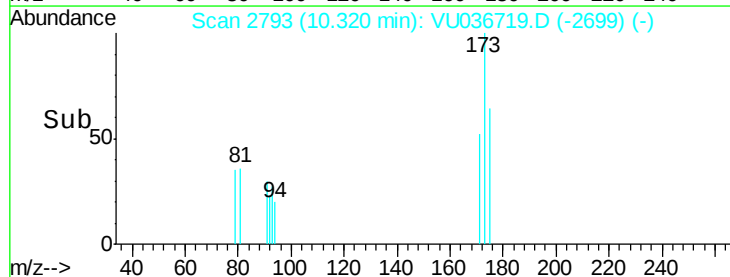
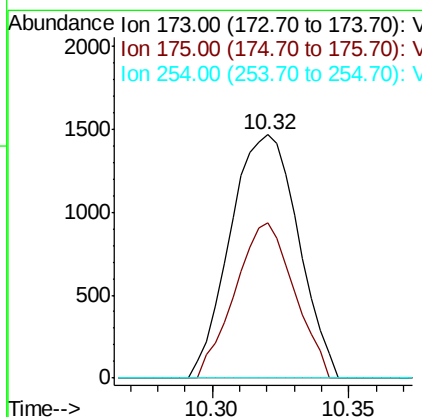
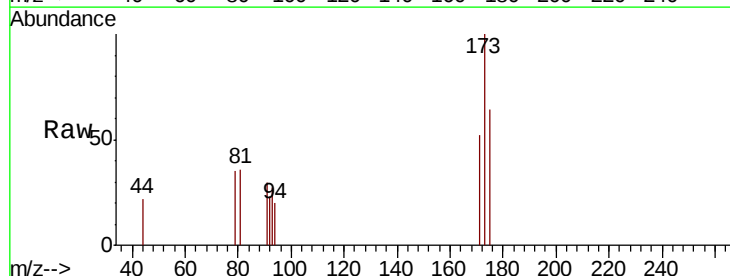
Instrument :
 MSVOA_U
 ClientSampled :
 MDL05

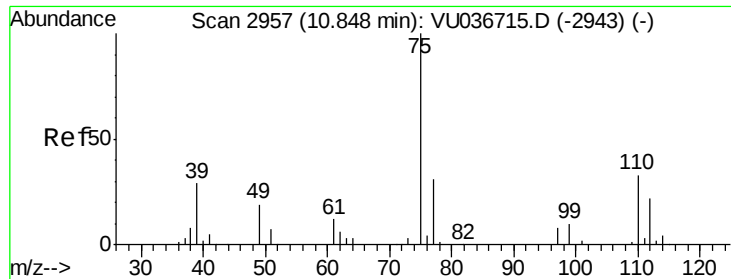
Tot Ion: 83 Resp: 7949
 Ion Ratio Lower Upper
 83 100
 85 70.3 44.7 82.9
 131 10.9 6.8 10.2#



#59
 Bromoform
 Concen: 2.259 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

Tgt Ion: 173 Resp: 2541
 Ion Ratio Lower Upper
 173 100
 175 55.4 38.2 57.4
 254 0.0 4.8 7.2#

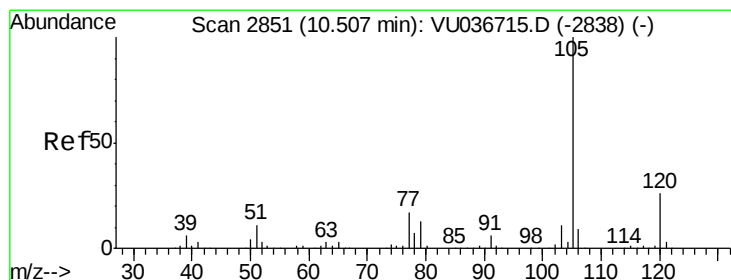
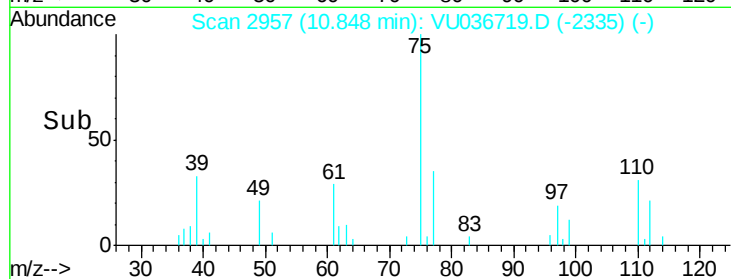
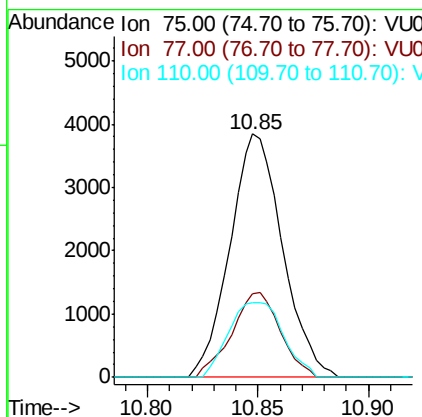
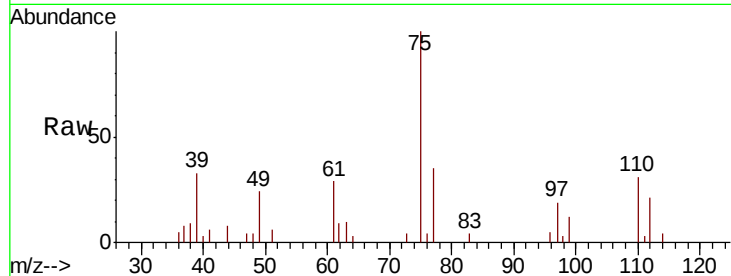




#60
 1,2,3-Trichloropropane
 Concen: 2.660 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

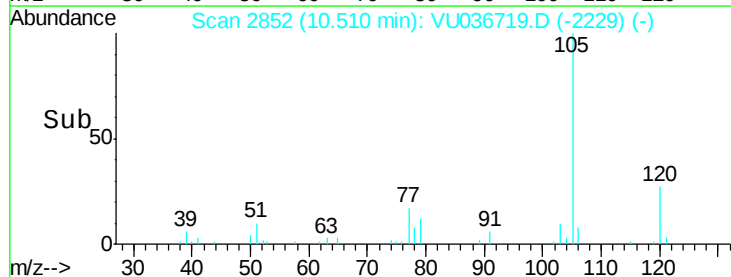
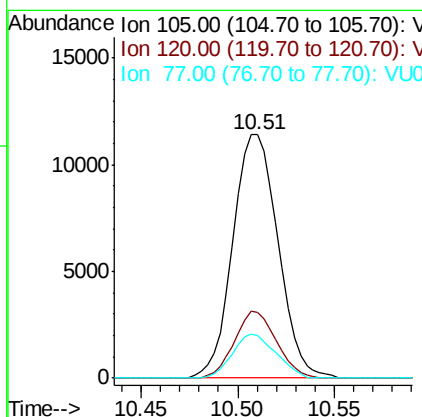
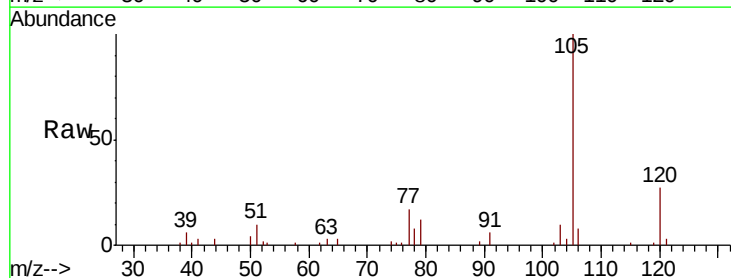
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

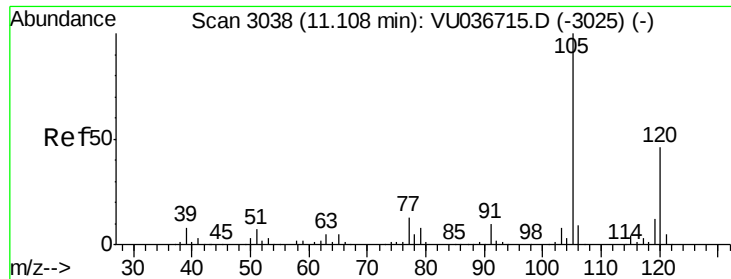
Tot Ion: 75 Resp: 6370
 Ion Ratio Lower Upper
 75 100
 77 32.1 26.1 39.1
 110 32.0 26.9 40.3



#61
 Isopropylbenzene
 Concen: 2.450 ug/L
 RT: 10.51 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

Tgt Ion: 105 Resp: 18575
 Ion Ratio Lower Upper
 105 100
 120 25.4 20.2 30.4
 77 17.2 13.0 19.6





#62

1,3,5-Trimethylbenzene

Concen: 2.328 ug/L

RT: 11.11 min Scan# 3039

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

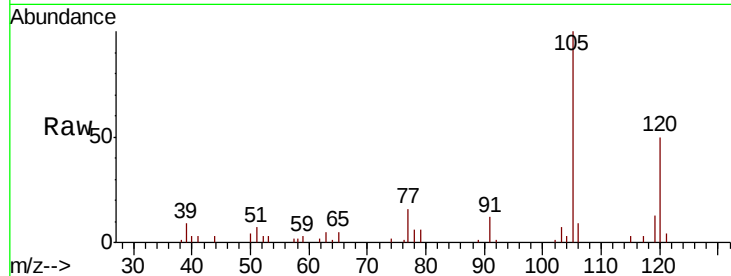
MDL05

Tot Ion:105 Resp: 15127

Ion Ratio Lower Upper

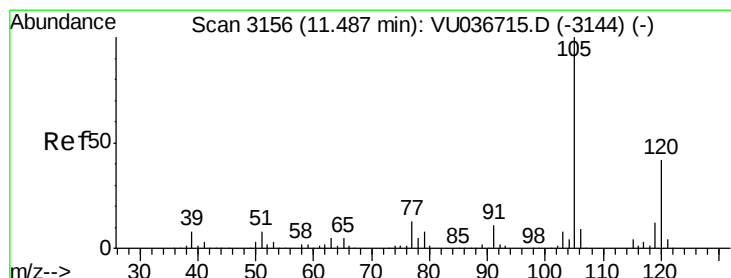
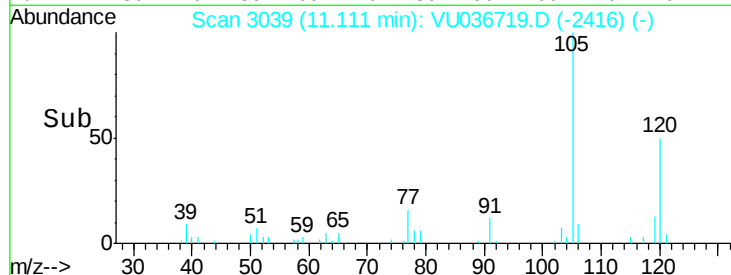
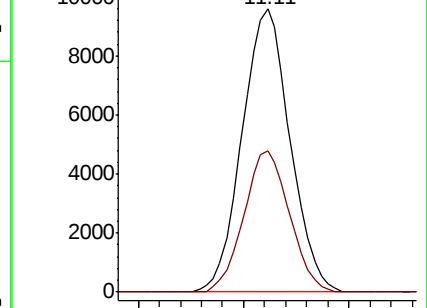
105 100

120 47.4 37.1 55.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.244 ug/L

RT: 11.49 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU036719.D

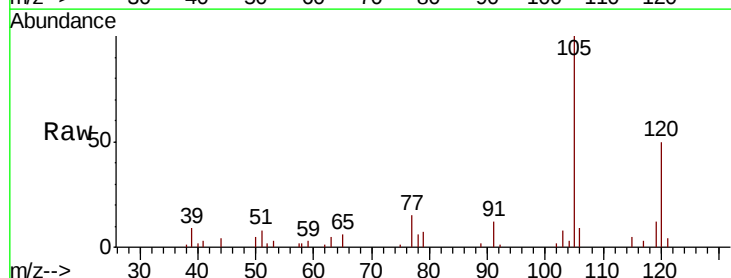
Acq: 11 Feb 2020 12:15

Tgt Ion:105 Resp: 14561

Ion Ratio Lower Upper

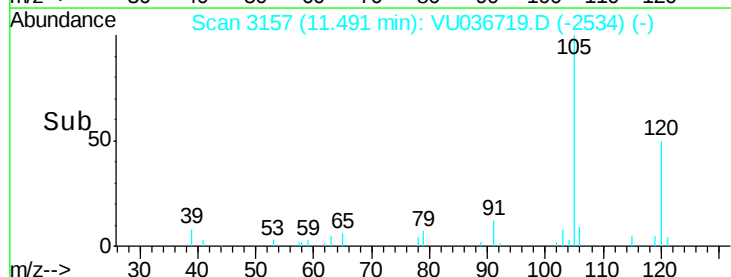
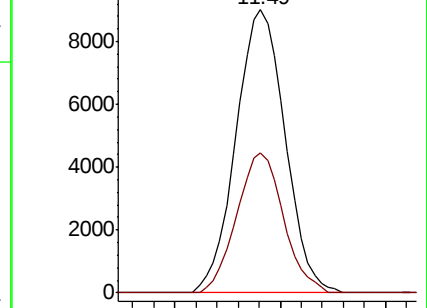
105 100

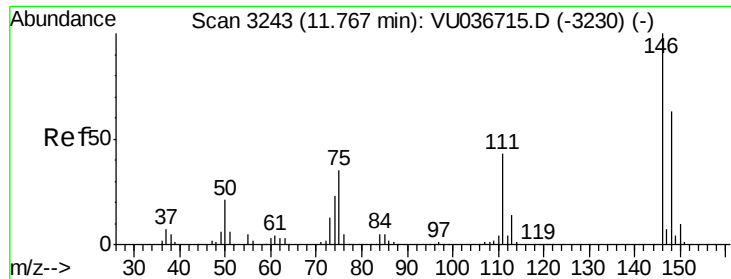
120 47.0 34.7 52.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

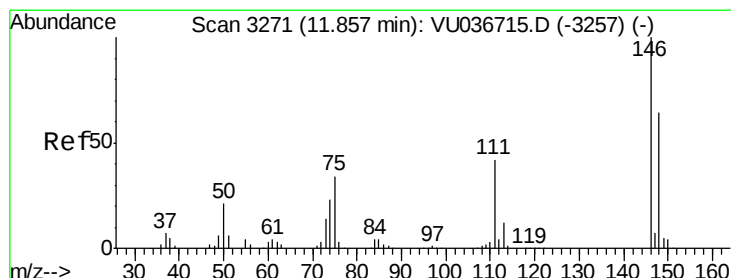
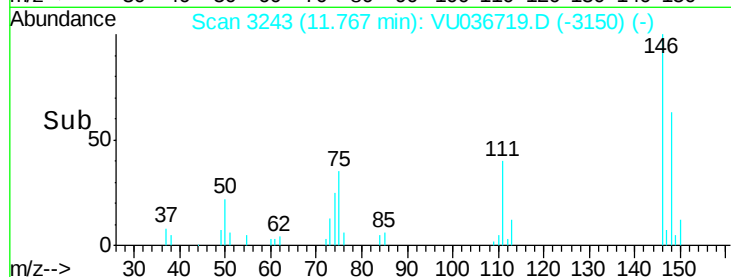
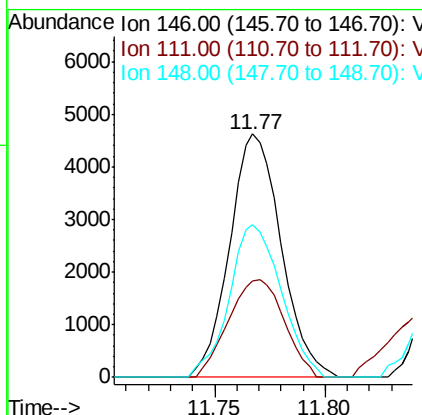
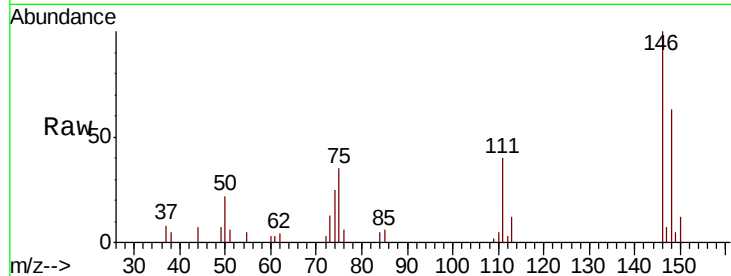




#64
 1,3-Dichlorobenzene
 Concen: 2.352 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

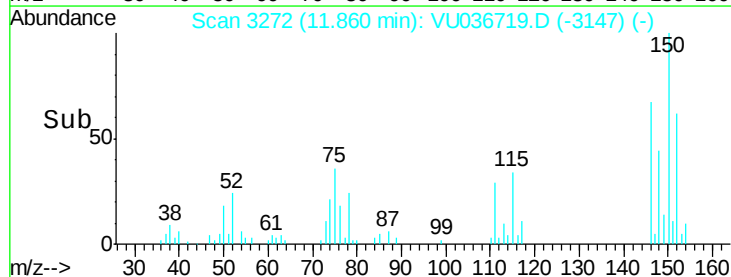
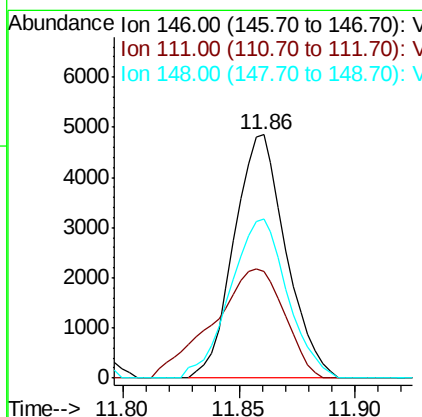
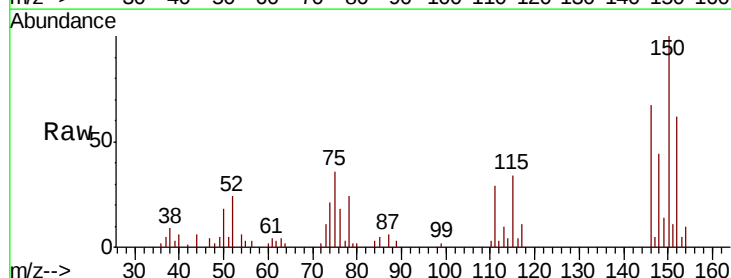
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

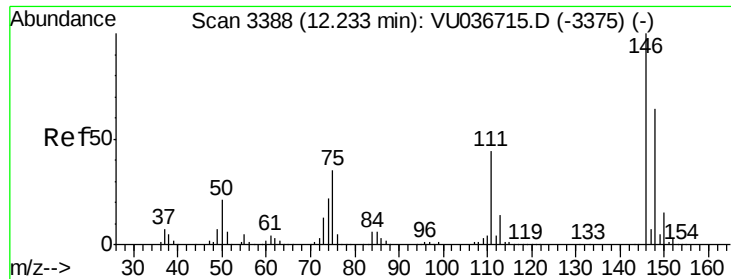
Tot Ion:146 Resp: 7498
 Ion Ratio Lower Upper
 146 100
 111 39.6 30.4 56.4
 148 62.5 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 2.350 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

Tgt Ion:146 Resp: 7541
 Ion Ratio Lower Upper
 146 100
 111 43.6 29.3 54.3
 148 65.3 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 2.458 ug/L

RT: 12.23 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

Instrument :

MSVOA_U

ClientSampleId :

MDL05

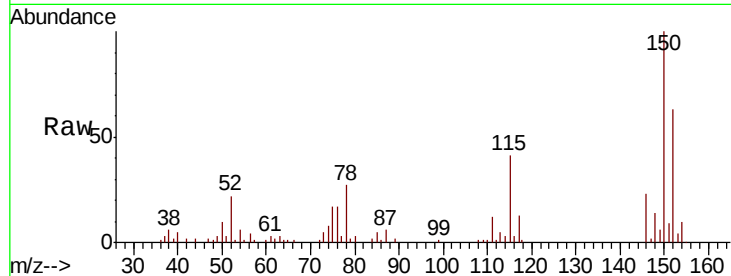
Tot Ion:146 Resp: 7932

Ion Ratio Lower Upper

146 100

111 54.1 35.4 53.0#

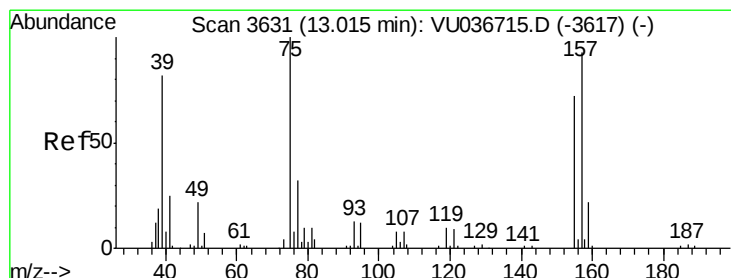
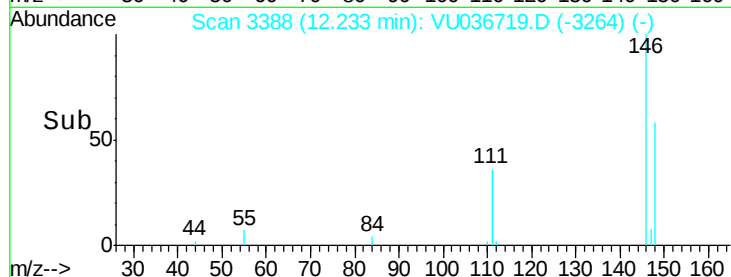
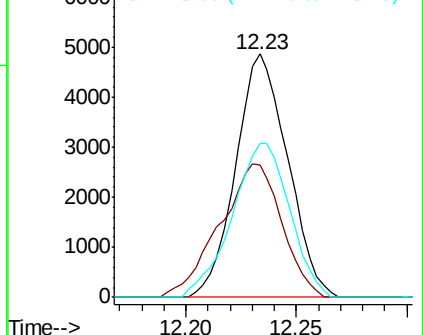
148 63.0 50.4 75.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 2.207 ug/L

RT: 13.02 min Scan# 3632

Delta R.T. 0.00 min

Lab File: VU036719.D

Acq: 11 Feb 2020 12:15

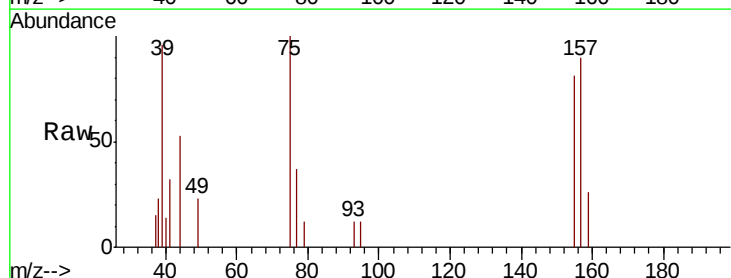
Tgt Ion: 75 Resp: 1510

Ion Ratio Lower Upper

75 100

155 80.9 58.7 88.1

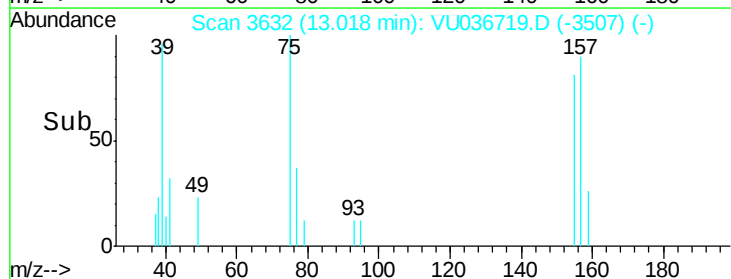
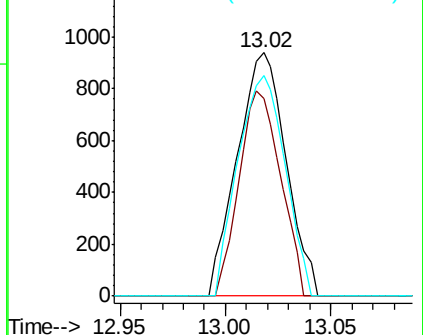
157 90.4 77.8 116.6

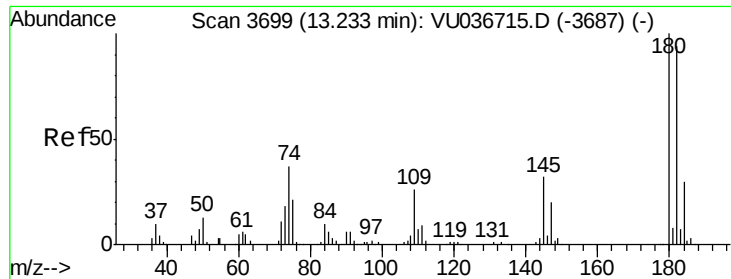


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

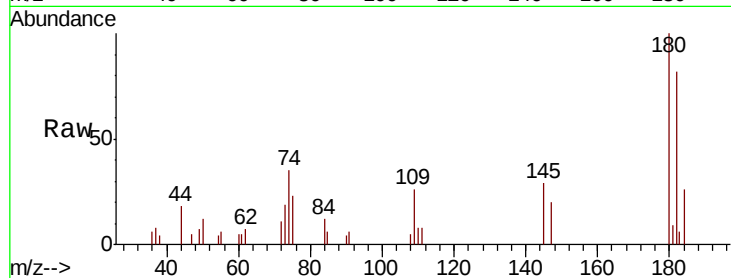




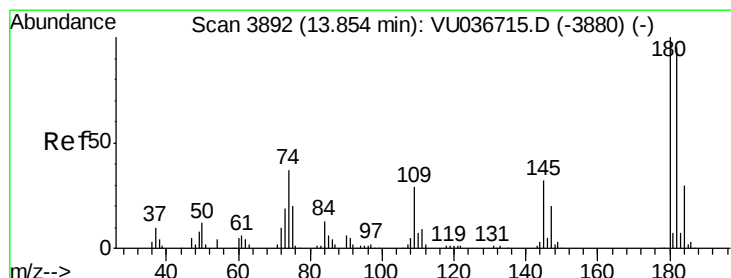
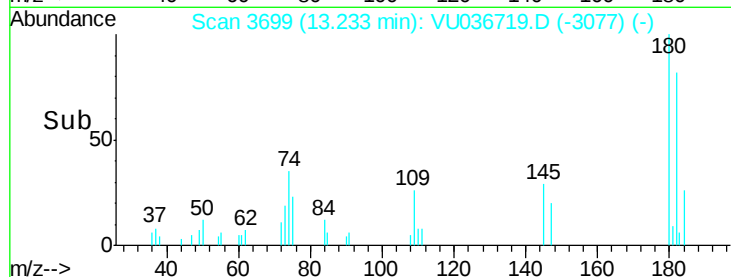
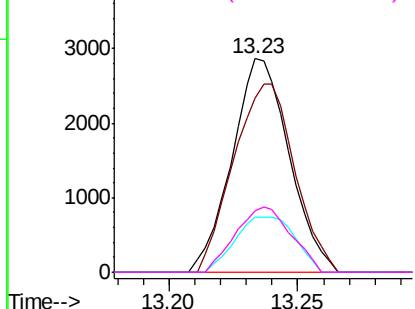
#69
 1,3,5-Trichlorobenzene
 Concen: 1.996 ug/L
 RT: 13.23 min Scan# 3699
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL05

Tot Ion:180 Resp: 4413
 Ion Ratio Lower Upper
 180 100
 182 94.2 76.2 114.4
 184 27.4 23.8 35.6
 145 29.7 25.0 37.6

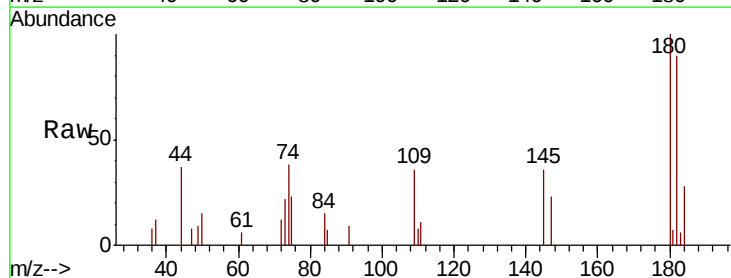


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

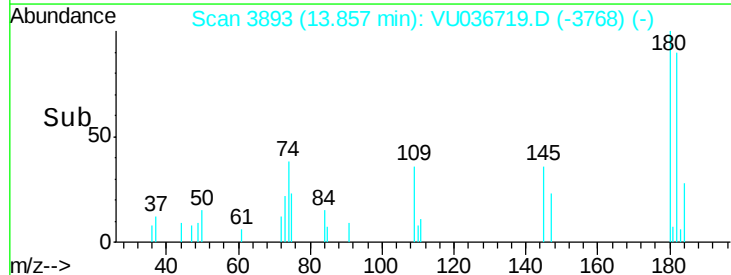
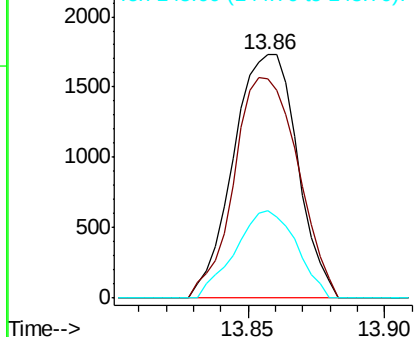


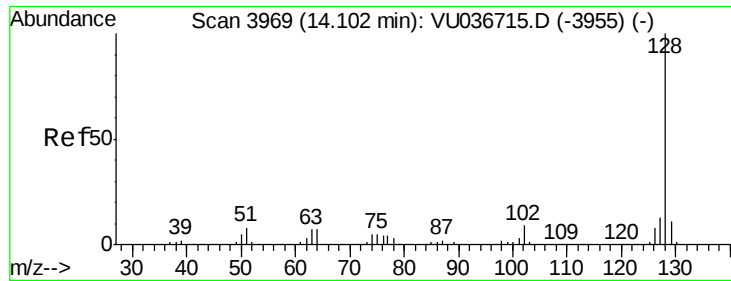
#70
 1,2,4-trichlorobenzene
 Concen: 1.527 ug/L
 RT: 13.86 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU036719.D
 Acq: 11 Feb 2020 12:15

Tgt Ion:180 Resp: 2815
 Ion Ratio Lower Upper
 180 100
 182 90.6 76.1 114.1
 145 34.4 25.7 38.5



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

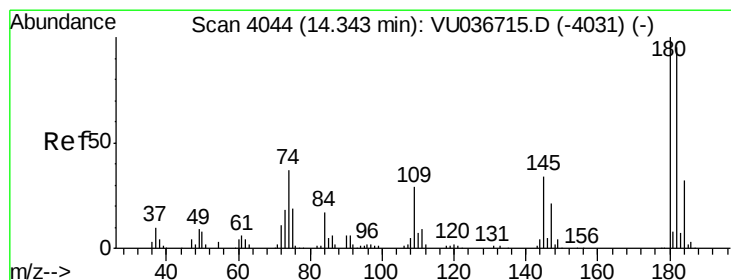
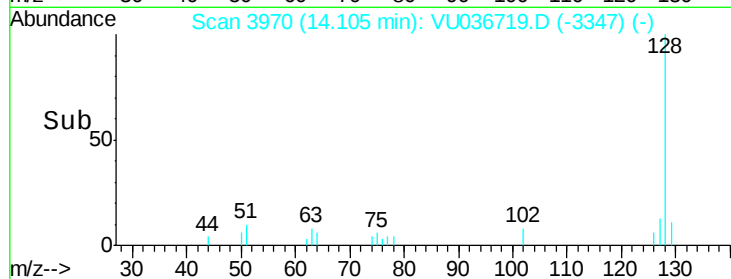
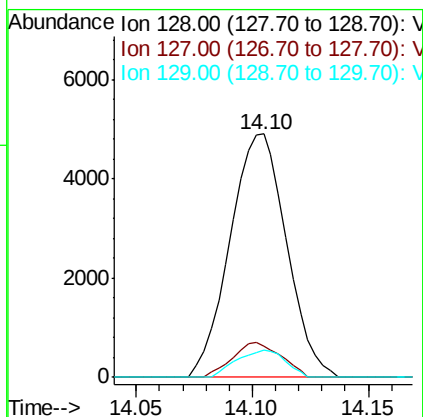
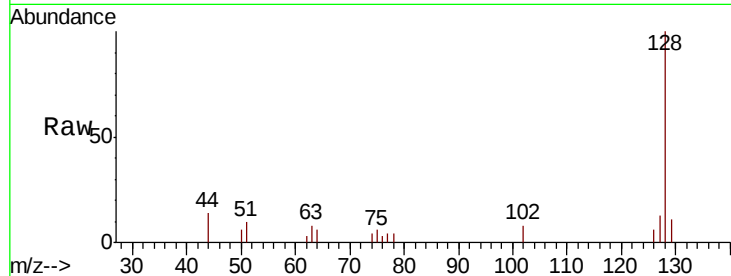




#71
Naphthalene
Concen: 1.276 ug/L
RT: 14.10 min Scan# 3970
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Instrument :
MSVOA_U
ClientSampleId :
MDL05

Tot Ion:128 Resp: 8293
Ion Ratio Lower Upper
128 100
127 12.3 10.6 16.0
129 9.7 8.5 12.7



#72
1,2,3-Trichlorobenzene
Concen: 1.525 ug/L
RT: 14.35 min Scan# 4045
Delta R.T. 0.00 min
Lab File: VU036719.D
Acq: 11 Feb 2020 12:15

Tgt Ion:180 Resp: 2800
Ion Ratio Lower Upper
180 100
182 92.2 76.8 115.2
145 31.1 27.5 41.3

