

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021020\
 Data File : VU036711.D
 Acq On : 10 Feb 2020 15:55
 Operator : JC/MD
 Sample : MDL06
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Quant Time: Feb 11 03:35:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 03:31:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	258230	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	241180	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	101835	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	66861	38.82	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	77.64%
7) Chloroethane-d5	1.93	69	68840	43.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.22%
11) 1,1-Dichloroethene-d2	2.59	63	100833	31.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	62.02%
21) 2-Butanone-d5	4.68	46	141128	96.05	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.05%
24) Chloroform-d	5.11	84	137911	44.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.50%
26) 1,2-Dichloroethane-d4	5.75	65	100893	47.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.66%
32) Benzene-d6	5.77	84	295034	46.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.06%
36) 1,2-Dichloropropane-d6	6.73	67	100108	47.56	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.12%
41) Toluene-d8	7.93	98	269745	46.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.92%
43) trans-1,3-Dichloropropene-	8.21	79	45398	45.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.08%
47) 2-Hexanone-d5	8.67	63	117294	97.64	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.64%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	150404	48.49	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.98%
66) 1,2-Dichlorobenzene-d4	12.22	152	90911	49.14	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.28%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	4017	2.252 ug/L	94
3) Chloromethane	1.54	50	5221	2.469 ug/L	99
5) Vinyl chloride	1.62	62	5730	2.517 ug/L #	57
6) Bromomethane	1.87	94	3287	2.303 ug/L	98
8) Chloroethane	1.95	64	4179	2.892 ug/L	92
9) Trichlorofluoromethane	2.16	101	6575	2.431 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	4459	2.752 ug/L #	89
12) 1,1-Dichloroethene	2.61	96	4334	2.748 ug/L #	1
13) Acetone	2.66	43	9646	6.180 ug/L	97
14) Carbon disulfide	2.82	76	10970	2.327 ug/L	95
15) Methyl Acetate	2.99	43	5204	2.306 ug/L	99
16) Methylene chloride	3.08	84	5960	3.061 ug/L	85
17) trans-1,2-Dichloroethene	3.39	96	4066	2.423 ug/L	87
18) Methyl tert-butyl Ether	3.41	73	13497	2.317 ug/L	99
19) 1,1-Dichloroethane	3.92	63	8180	2.446 ug/L	97
20) cis-1,2-Dichloroethene	4.72	96	4974	2.601 ug/L	94
22) 2-Butanone	4.76	43	8367	4.517 ug/L #	74

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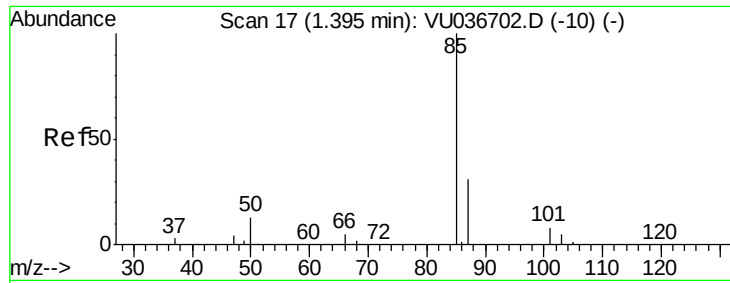
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	5.02	128	1978	2.207	ug/L	91
25) Chloroform	5.14	83	14258	4.384	ug/L	93
27) 1,2-Dichloroethane	5.84	62	6726	2.459	ug/L #	94
29) Cyclohexane	5.44	56	6800	2.195	ug/L	95
30) 1,1,1-Trichloroethane	5.36	97	5853	2.285	ug/L	96
31) Carbon tetrachloride	5.57	117	4498	2.168	ug/L	87
33) Benzene	5.82	78	18279	2.506	ug/L	100
34) Trichloroethene	6.58	95	4484	2.486	ug/L	90
35) Methylcyclohexane	6.80	83	7099	2.235	ug/L	97
37) 1,2-Dichloropropane	6.83	63	4732	2.406	ug/L #	96
38) Bromodichloromethane	7.14	83	5587	2.337	ug/L #	92
39) cis-1,3-Dichloropropene	7.64	75	7199	2.290	ug/L	95
40) 4-Methyl-2-pentanone	7.83	43	13888	4.469	ug/L	98
42) Toluene	8.00	91	19190	2.435	ug/L	95
44) trans-1,3-Dichloropropene	8.25	75	6712	2.445	ug/L	97
45) 1,1,2-Trichloroethane	8.43	97	4320	2.407	ug/L	98
46) Tetrachloroethene	8.58	164	3311	2.616	ug/L	95
48) 2-Hexanone	8.72	43	13364	5.271	ug/L	97
49) Dibromochloromethane	8.84	129	3991	2.274	ug/L	95
50) 1,2-Dibromoethane	8.95	107	4203	2.229	ug/L #	97
51) Chlorobenzene	9.47	112	11417	2.405	ug/L	98
52) Ethylbenzene	9.60	91	20081	2.318	ug/L	98
53) m,p-Xylene	9.72	106	7570	2.369	ug/L	88
54) o-xylene	10.12	106	7068	2.233	ug/L	97
55) Styrene	10.14	104	11216	2.126	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.81	83	8148	2.520	ug/L	92
59) Bromoform	10.32	173	2557	2.273	ug/L #	91
60) 1,2,3-Trichloropropane	10.85	75	6193	2.585	ug/L	97
61) Isopropylbenzene	10.51	105	18806	2.480	ug/L	99
62) 1,3,5-Trimethylbenzene	11.11	105	15285	2.351	ug/L	98
63) 1,2,4-Trimethylbenzene	11.49	105	14781	2.277	ug/L	97
64) 1,3-Dichlorobenzene	11.77	146	7873	2.469	ug/L	95
65) 1,4-Dichlorobenzene	11.86	146	7596	2.366	ug/L	97
67) 1,2-Dichlorobenzene	12.24	146	8533	2.643	ug/L	97
68) 1,2-Dibromo-3-chloropropan	13.02	75	1472	2.150	ug/L	95
69) 1,3,5-Trichlorobenzene	13.24	180	4673	2.113	ug/L	97
70) 1,2,4-trichlorobenzene	13.86	180	2740	1.486	ug/L	93
71) Naphthalene	14.10	128	9100	1.400	ug/L	99
72) 1,2,3-Trichlorobenzene	14.35	180	3114	1.695	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.252 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

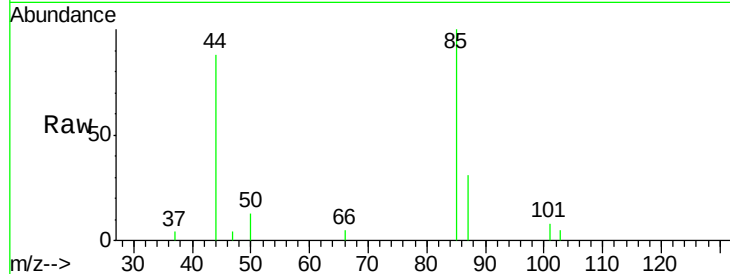
MDL06

Tot Ion: 85 Resp: 4017

Ion Ratio Lower Upper

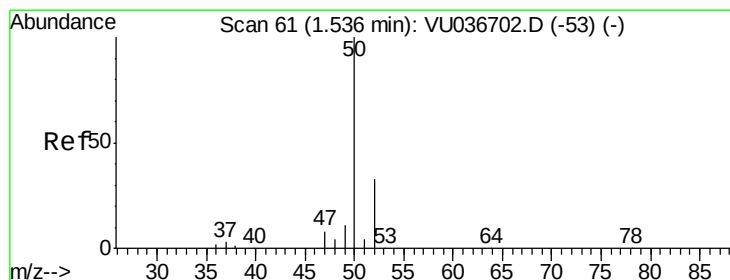
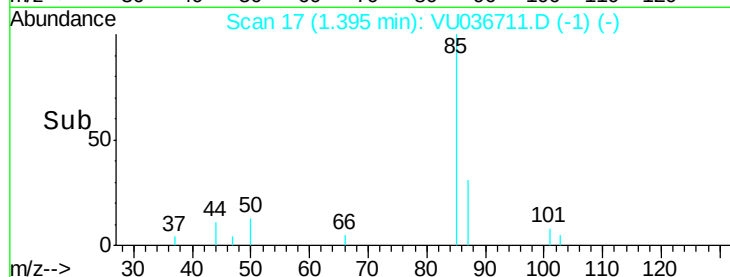
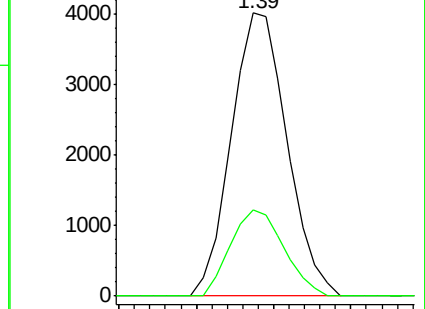
85 100

87 29.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU036711.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU036711.D (-1) (-)



#3

Chloromethane

Concen: 2.469 ug/L

RT: 1.54 min Scan# 62

Delta R.T. 0.00 min

Lab File: VU036711.D

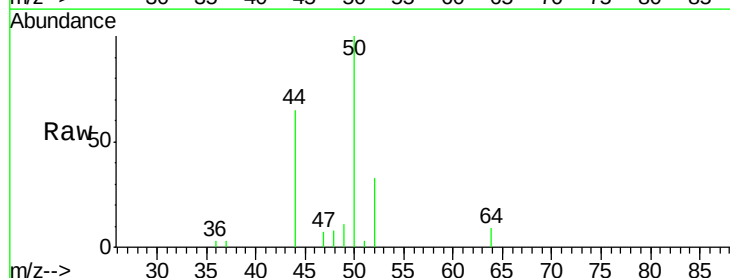
Acq: 10 Feb 2020 15:55

Tgt Ion: 50 Resp: 5221

Ion Ratio Lower Upper

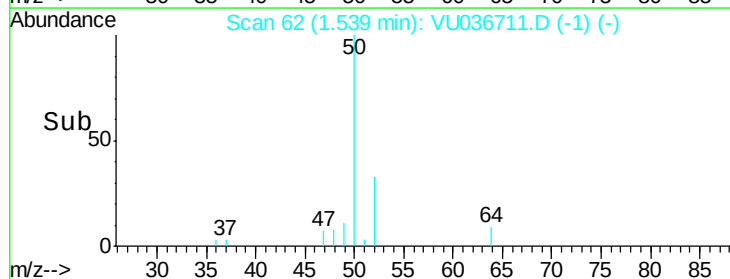
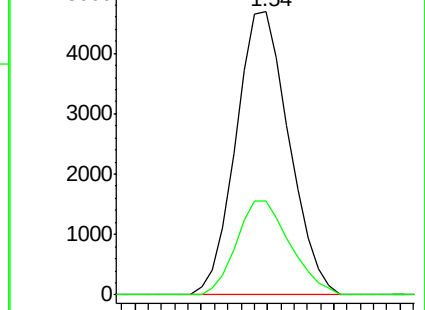
50 100

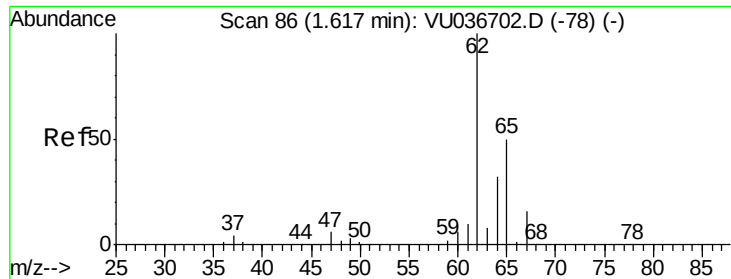
52 33.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036711.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU036711.D (-1) (-)





#5

Vinyl chloride

Concen: 2.517 ug/L

RT: 1.62 min Scan# 87

Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

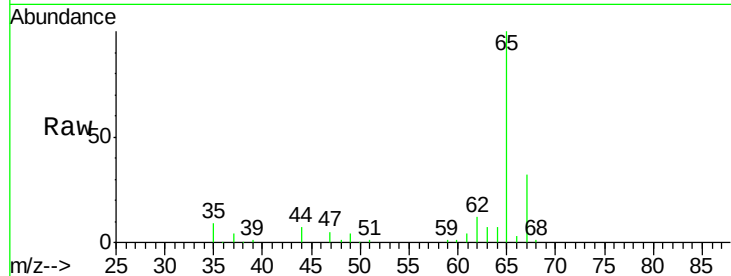
MDL06

Tot Ion: 62 Resp: 5730

Ion Ratio Lower Upper

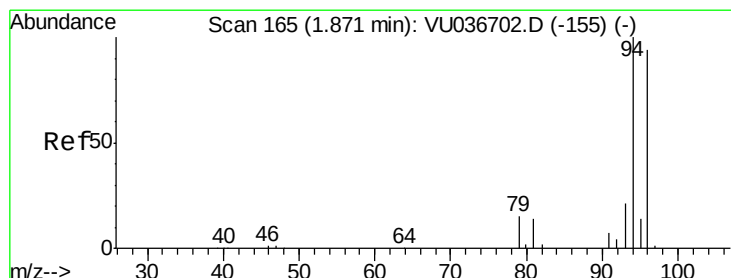
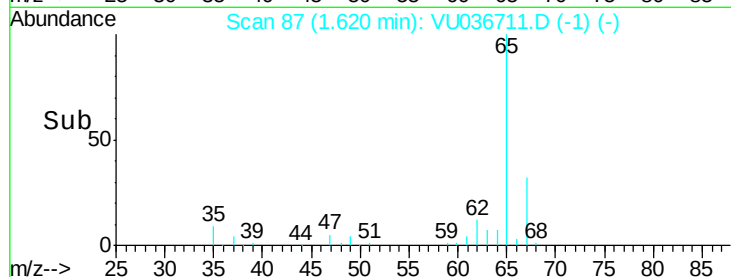
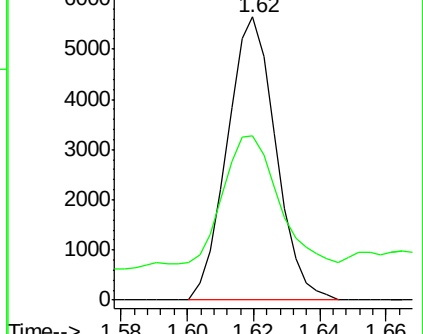
62 100

64 58.0 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: 2.303 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU036711.D

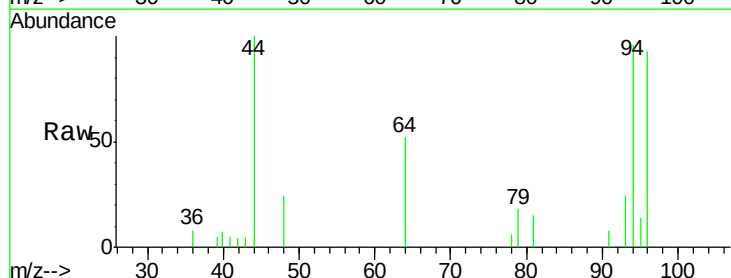
Acq: 10 Feb 2020 15:55

Tgt Ion: 94 Resp: 3287

Ion Ratio Lower Upper

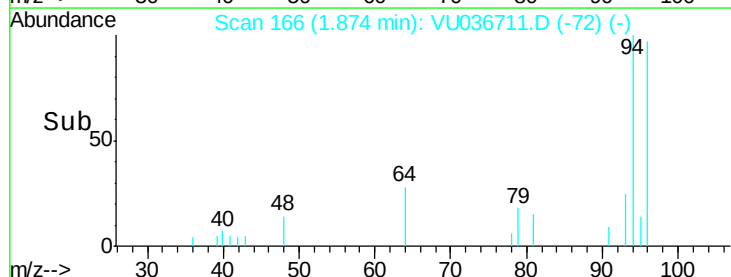
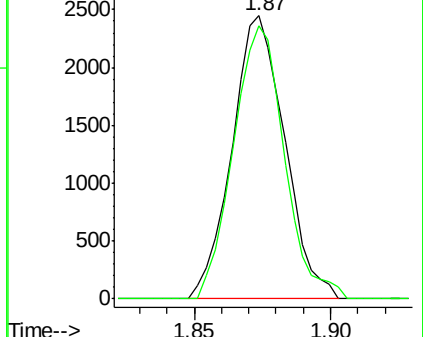
94 100

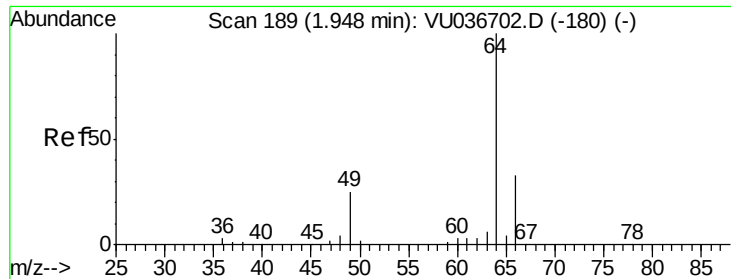
96 96.5 66.3 123.1



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 2.892 ug/L

RT: 1.95 min Scan# 190

Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

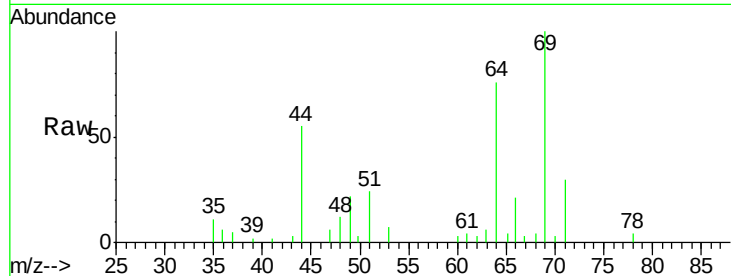
MDL06

Tot Ion: 64 Resp: 4179

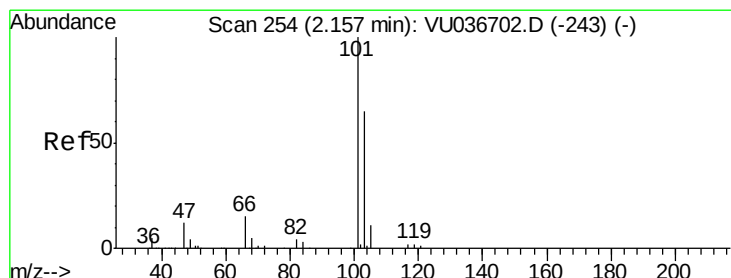
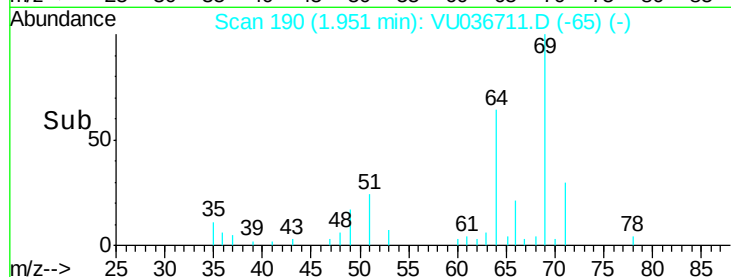
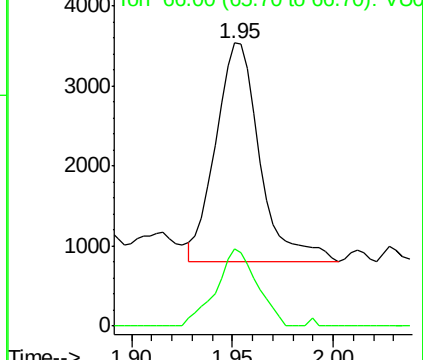
Ion Ratio Lower Upper

64 100

66 27.1 22.1 41.1



Abundance Ion 64.00 (63.70 to 64.70): VU036711.D (-65) (-)



#9

Trichlorofluoromethane

Concen: 2.431 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU036711.D

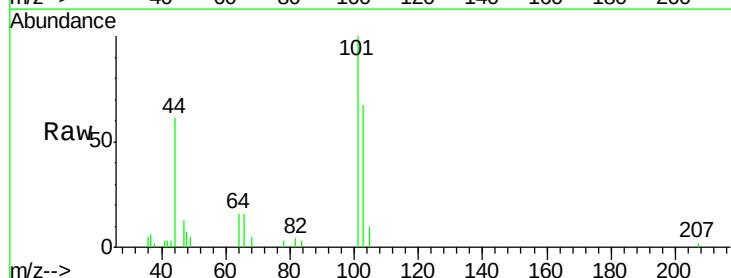
Acq: 10 Feb 2020 15:55

Tgt Ion: 101 Resp: 6575

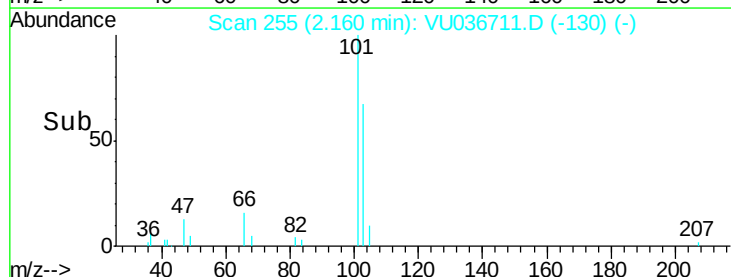
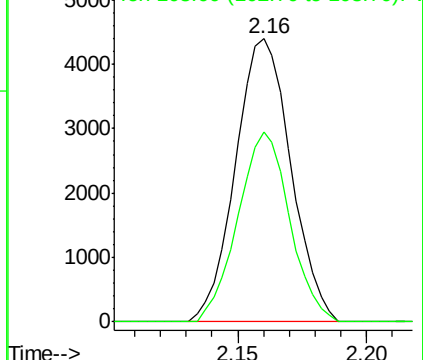
Ion Ratio Lower Upper

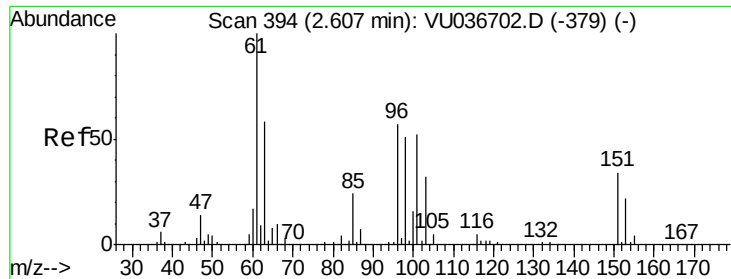
101 100

103 62.6 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): VU036711.D (-130) (-)





#10

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

Concen: 2.752 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampled :

MDL06

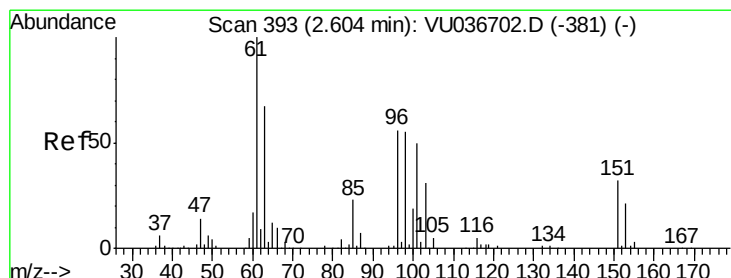
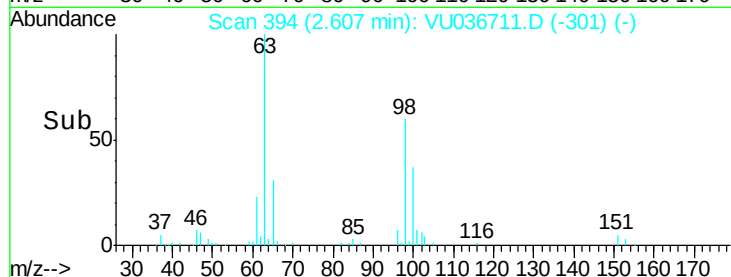
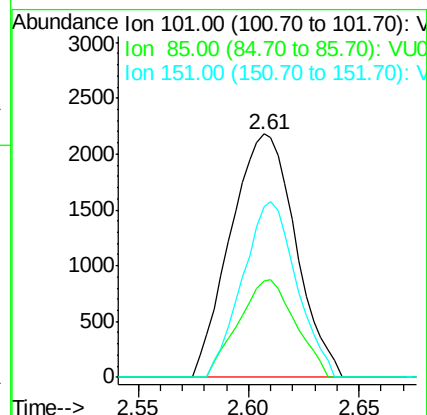
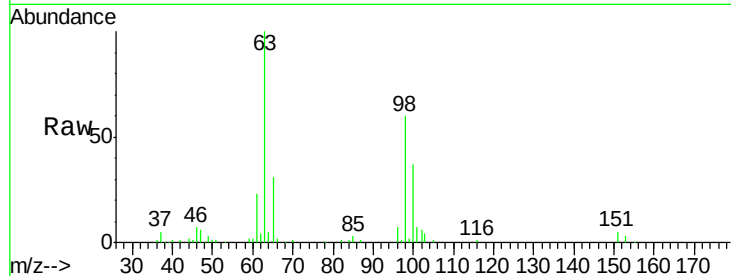
Tot Ion:101 Resp: 4459

Ion Ratio Lower Upper

101 100

85 35.0 36.5 54.7#

151 60.1 52.6 78.8



#12

1,1-Dichloroethene

Concen: 2.748 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

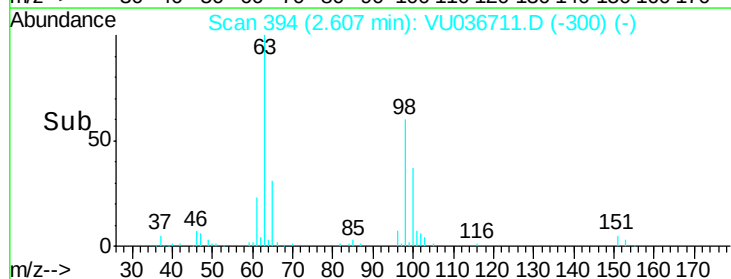
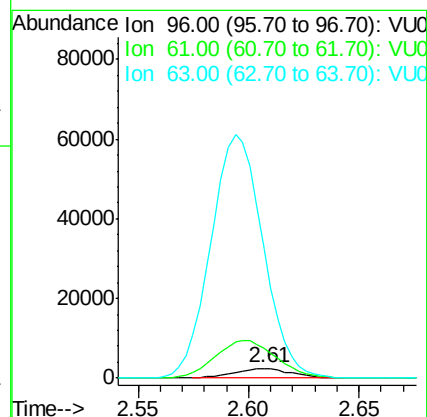
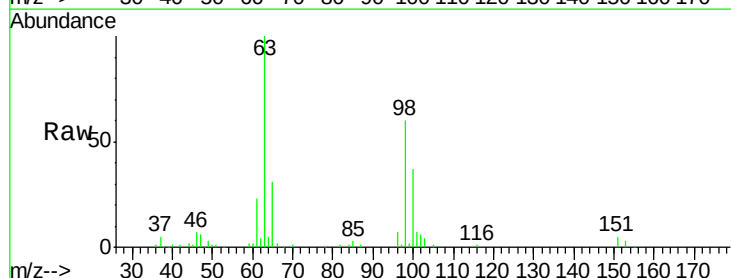
Tgt Ion: 96 Resp: 4334

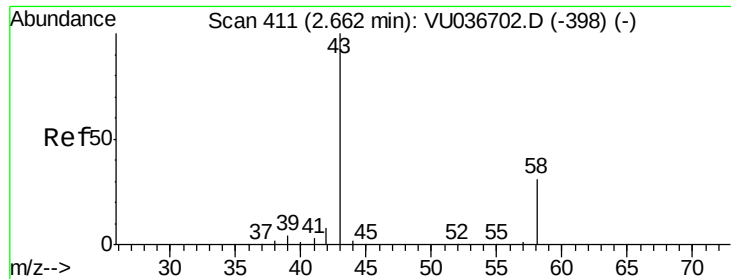
Ion Ratio Lower Upper

96 100

61 313.5 124.4 231.0#

63 1386.0 83.4 155.0#





#13

Acetone

Concen: 6.180 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

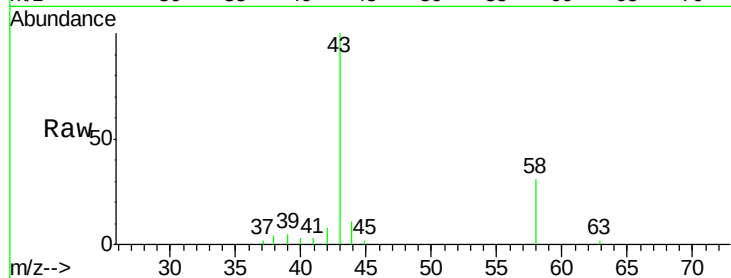
MDL06

Tot Ion: 43 Resp: 9646

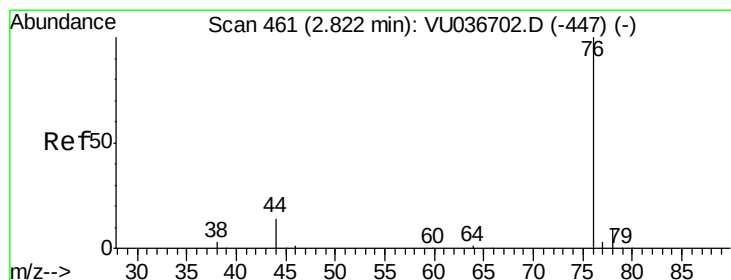
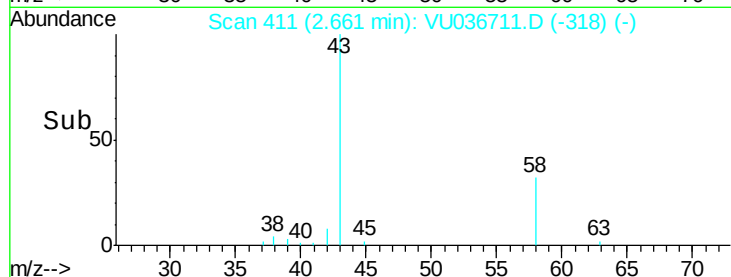
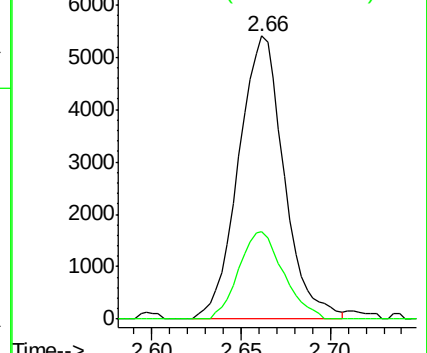
Ion Ratio Lower Upper

43 100

58 30.2 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU036711.D (-318) (-)



#14

Carbon disulfide

Concen: 2.327 ug/L

RT: 2.82 min Scan# 461

Delta R.T. -0.00 min

Lab File: VU036711.D

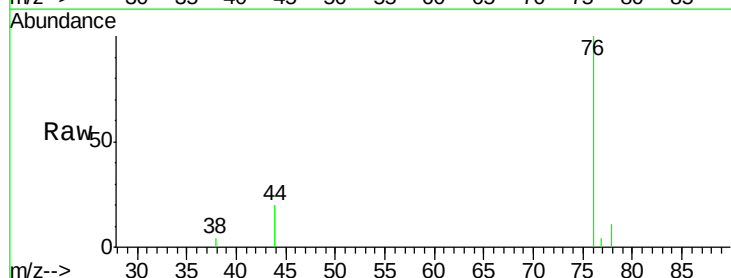
Acq: 10 Feb 2020 15:55

Tgt Ion: 76 Resp: 10970

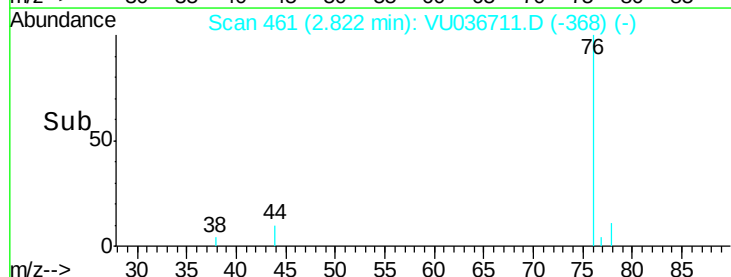
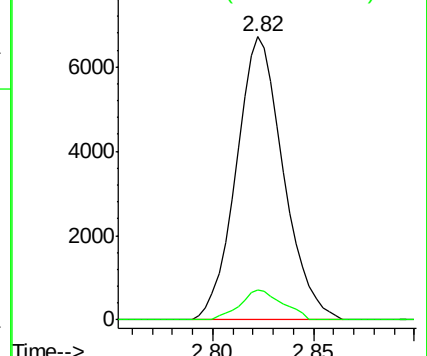
Ion Ratio Lower Upper

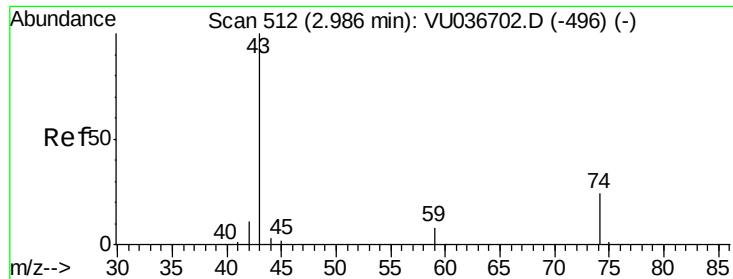
76 100

78 10.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036711.D (-368) (-)

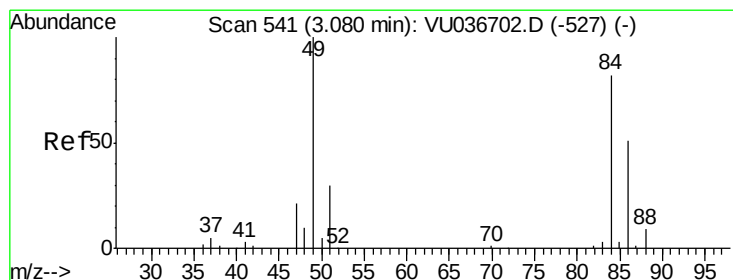
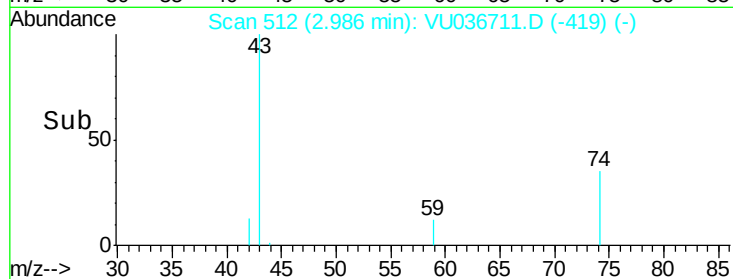
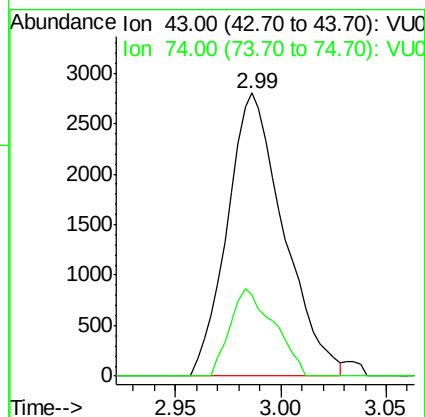
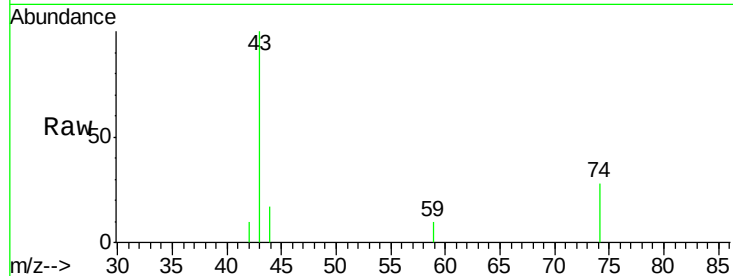




#15
Methvl Acetate
Concen: 2.306 ug/L
RT: 2.99 min Scan# 512
Delta R.T. -0.00 min
Lab File: VU036711.D
Acq: 10 Feb 2020 15:55

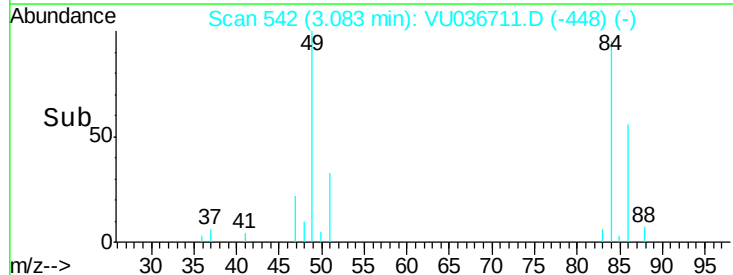
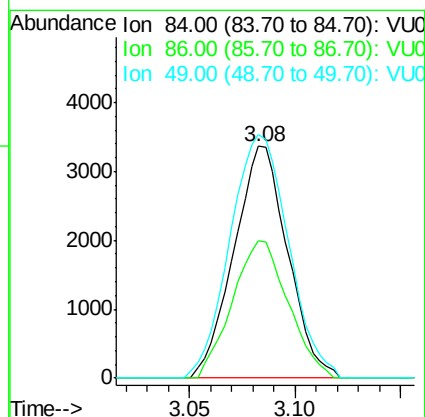
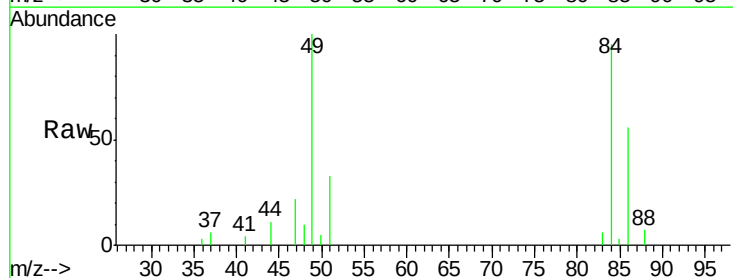
Instrument :
MSVOA_U
ClientSampleId :
MDL06

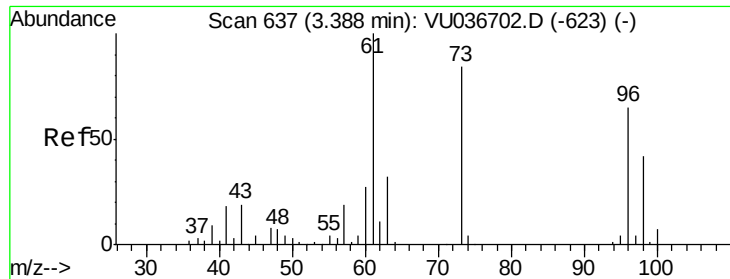
Tot Ion: 43 Resp: 5204
Ion Ratio Lower Upper
43 100
74 24.0 18.7 28.1



#16
Methylene chloride
Concen: 3.061 ug/L
RT: 3.08 min Scan# 542
Delta R.T. 0.00 min
Lab File: VU036711.D
Acq: 10 Feb 2020 15:55

Tgt Ion: 84 Resp: 5960
Ion Ratio Lower Upper
84 100
86 59.2 44.4 82.5
49 105.0 89.2 165.8





#17

trans-1,2-Dichloroethene

Concen: 2.423 ug/L

RT: 3.39 min Scan# 639

Delta R.T. 0.01 min

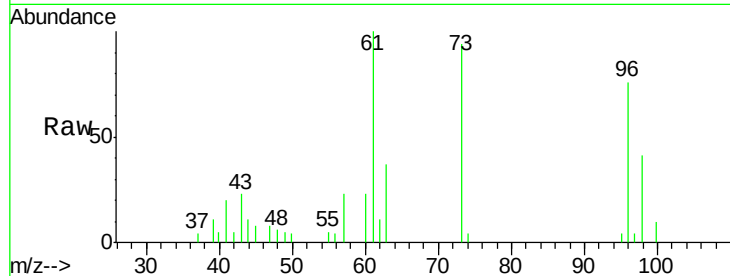
Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion: 96 Resp: 4066

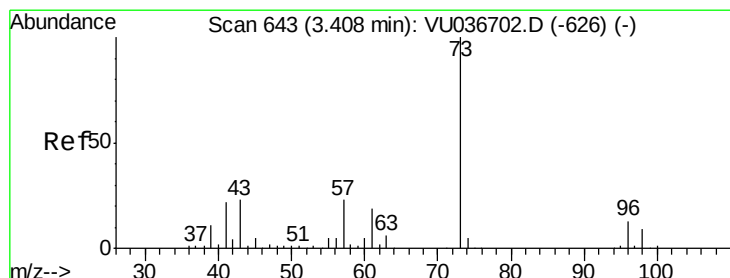
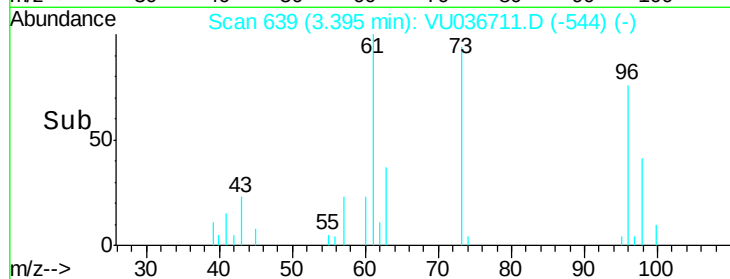
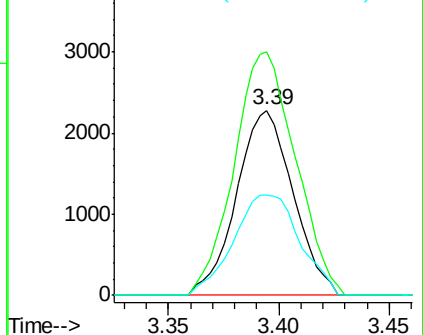
Ion	Ratio	Lower	Upper
96	100		
61	131.5	103.4	192.0
98	53.9	45.4	84.2



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: 2.317 ug/L

RT: 3.41 min Scan# 644

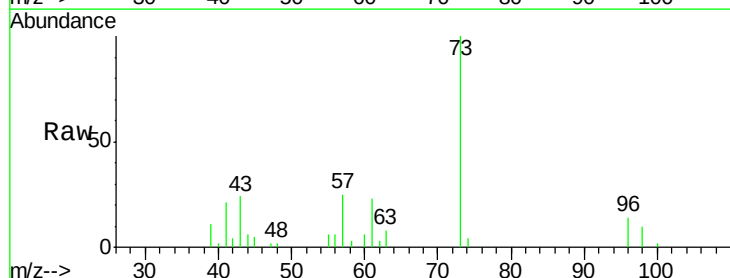
Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Tgt Ion: 73 Resp: 13497

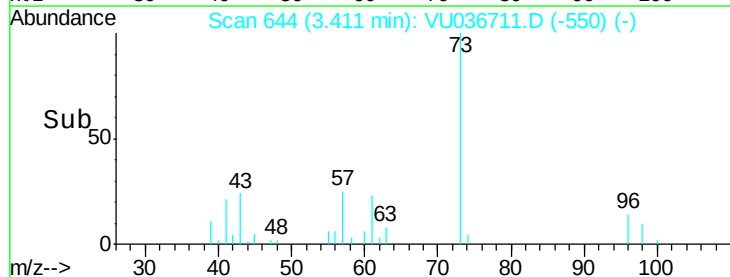
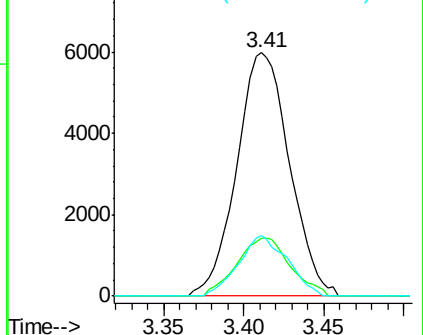
Ion	Ratio	Lower	Upper
73	100		
43	24.1	18.6	28.0
57	23.1	18.3	27.5

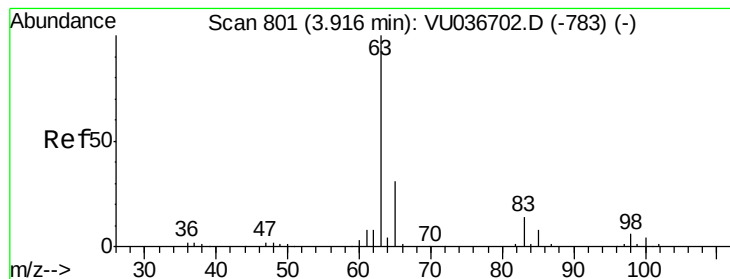


Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 2.446 ug/L

RT: 3.92 min Scan# 803

Delta R.T. 0.01 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

MDL06

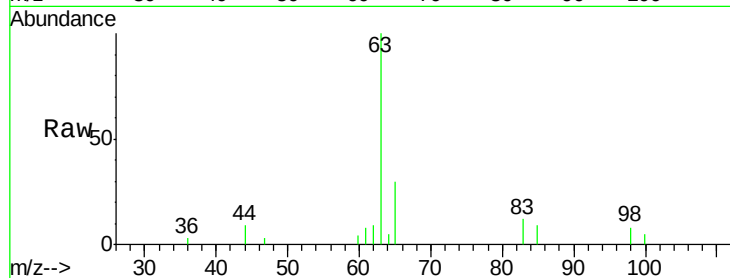
Tot Ion: 63 Resp: 8180

Ion Ratio Lower Upper

63 100

65 30.2 22.0 40.8

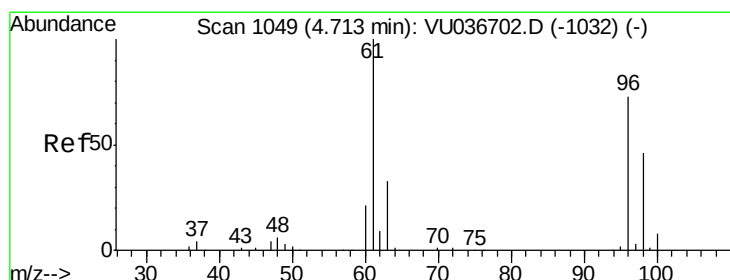
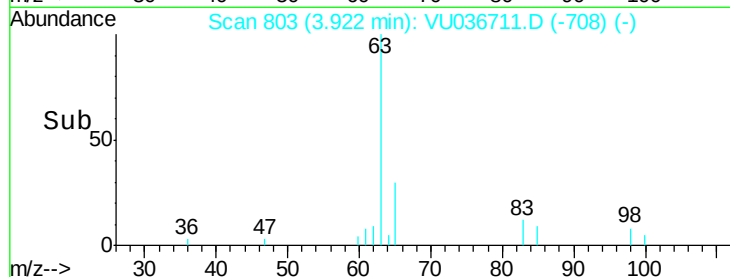
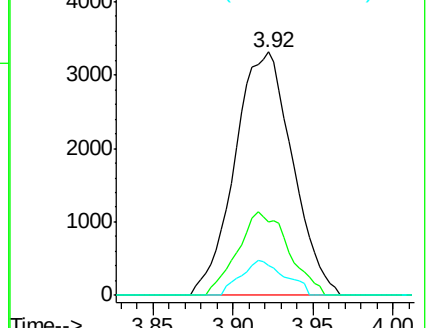
83 12.4 10.1 18.7



Abundance Ion 63.00 (62.70 to 63.70): VU036711.D (-783) (-)

Ion 65.00 (64.70 to 65.70): VU036711.D (-783) (-)

Ion 83.00 (82.70 to 83.70): VU036711.D (-783) (-)



#20

cis-1,2-Dichloroethene

Concen: 2.601 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

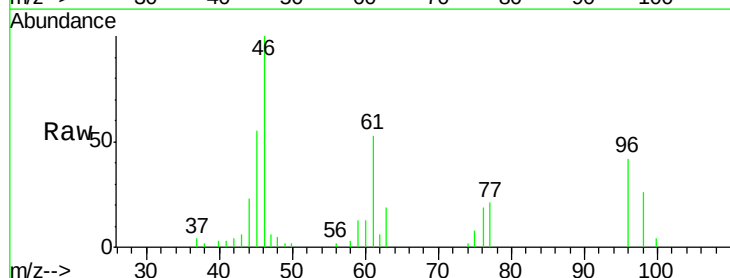
Tgt Ion: 96 Resp: 4974

Ion Ratio Lower Upper

96 100

61 126.3 93.3 173.3

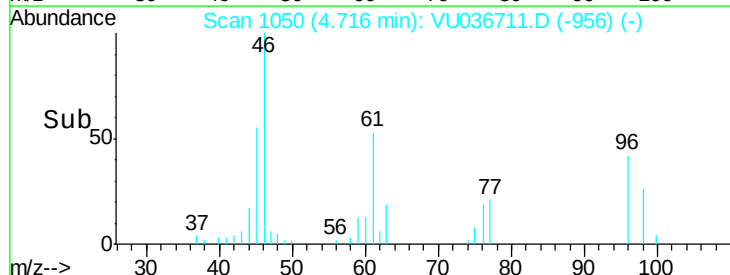
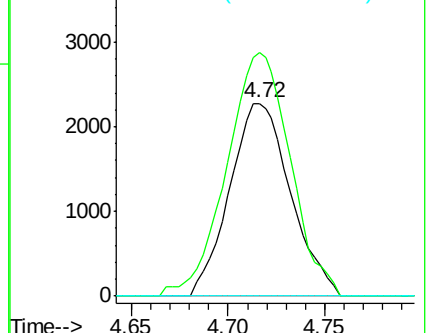
68 0.0 0.0 0.0

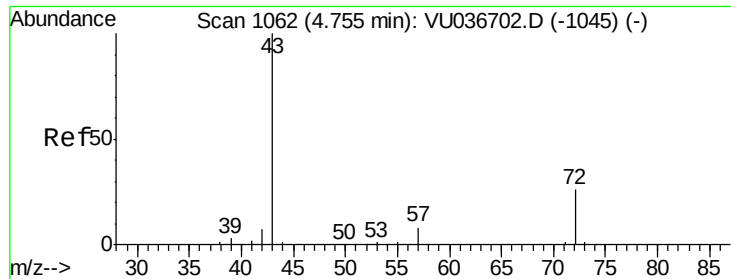


Abundance Ion 96.00 (95.70 to 96.70): VU036711.D (-956) (-)

Ion 61.00 (60.70 to 61.70): VU036711.D (-956) (-)

Ion 68.00 (67.70 to 68.70): VU036711.D (-956) (-)





#22

2-Butanone

Concen: 4.517 ug/L

RT: 4.76 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

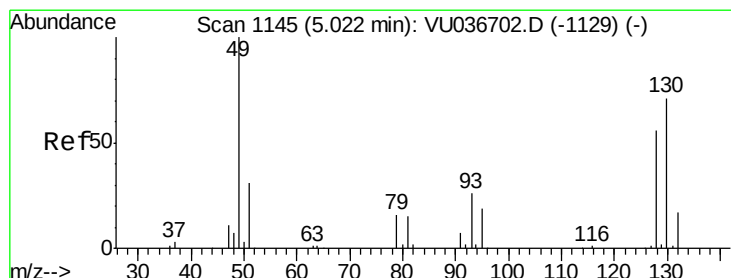
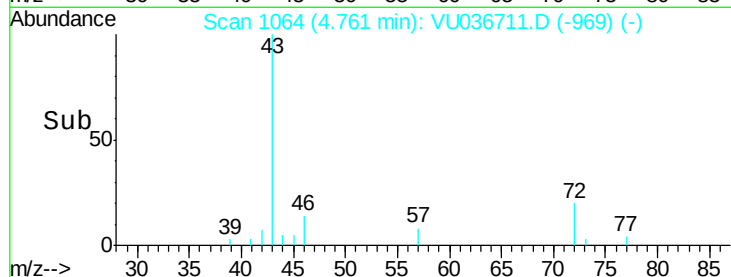
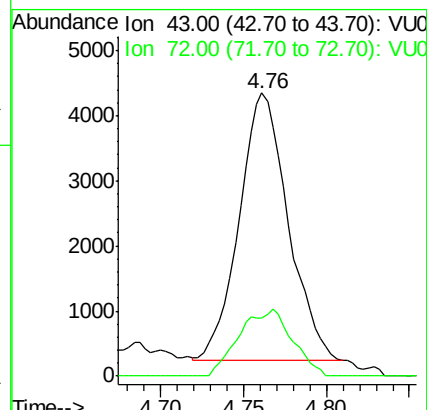
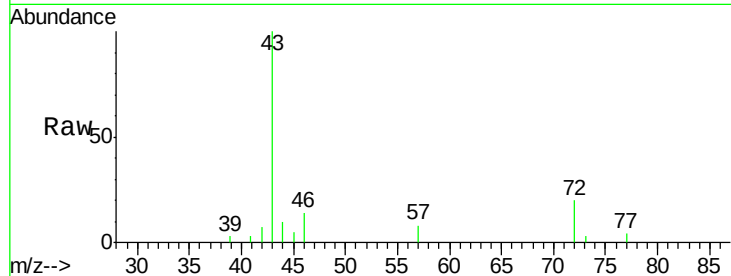
MDL06

Tot Ion: 43 Resp: 8367

Ion Ratio Lower Upper

43 100

72 13.4 13.6 40.7#



#23

Bromochloromethane

Concen: 2.207 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Tgt Ion: 128 Resp: 1978

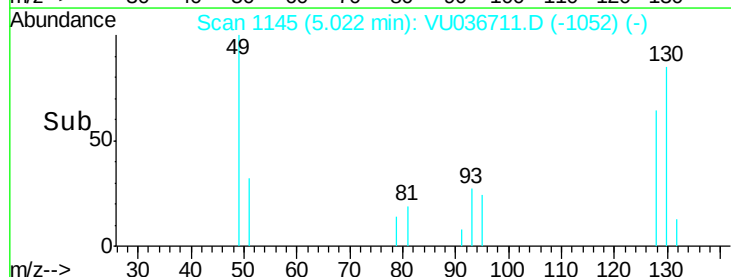
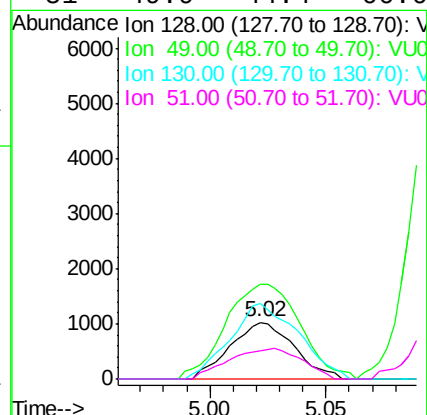
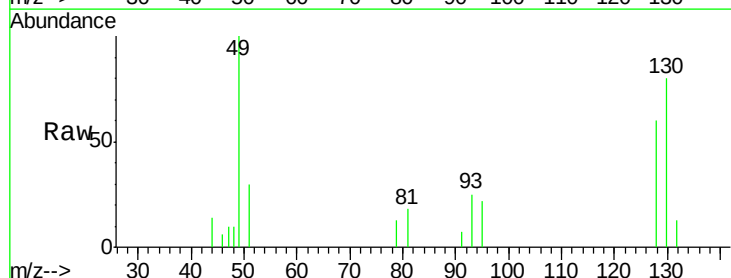
Ion Ratio Lower Upper

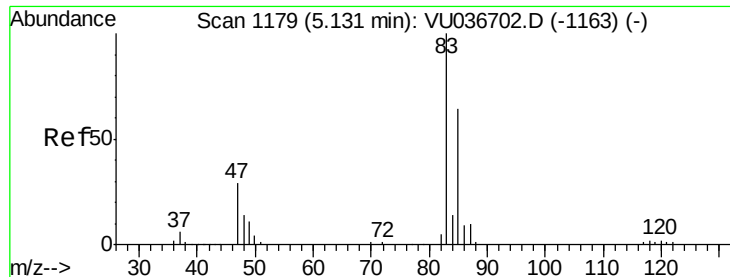
128 100

49 166.7 127.3 236.5

130 133.0 88.5 164.3

51 49.9 44.4 66.6

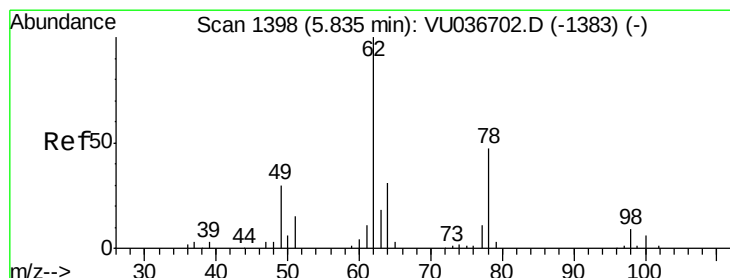
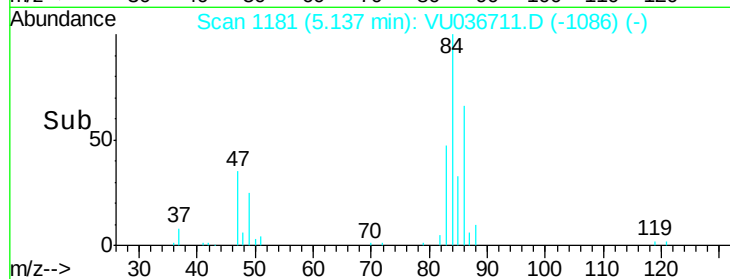
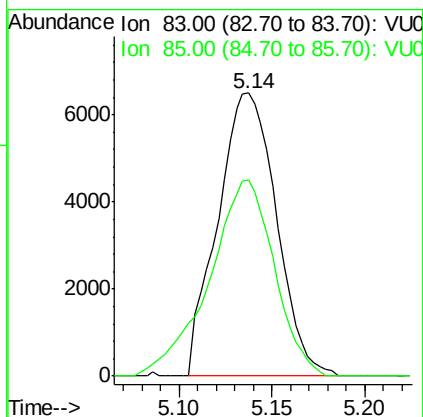
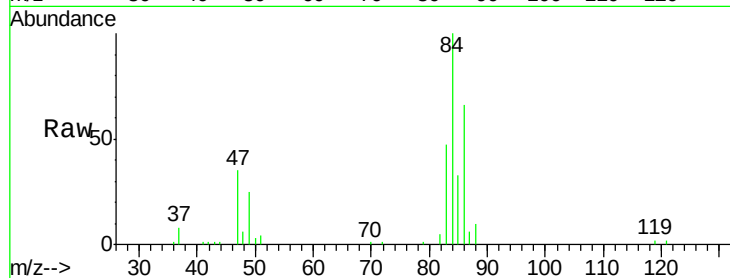




#25
Chloroform
Concen: 4.384 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.01 min
Lab File: VU036711.D
Acq: 10 Feb 2020 15:55

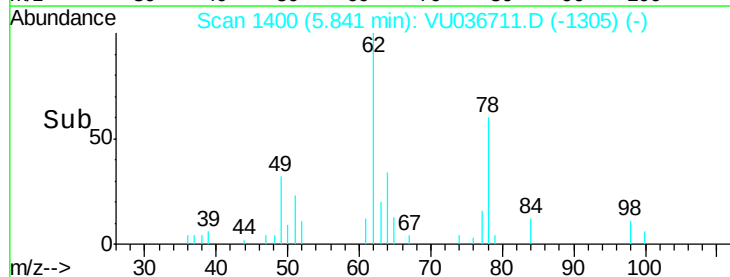
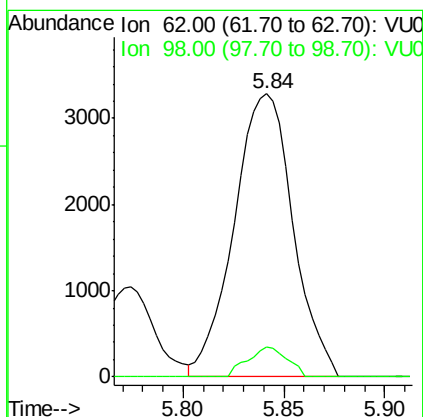
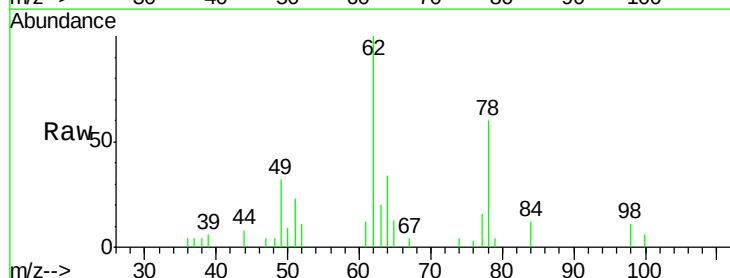
Instrument :
MSVOA_U
ClientSampleId :
MDL06

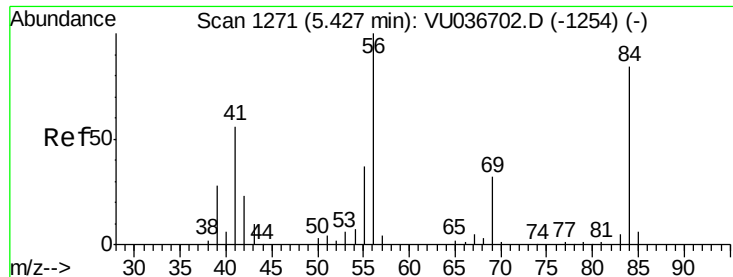
Tot Ion: 83 Resp: 14258
Ion Ratio Lower Upper
83 100
85 69.3 44.6 82.8



#27
1,2-Dichloroethane
Concen: 2.459 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.01 min
Lab File: VU036711.D
Acq: 10 Feb 2020 15:55

Tgt Ion: 62 Resp: 6726
Ion Ratio Lower Upper
62 100
98 10.7 7.0 10.4#

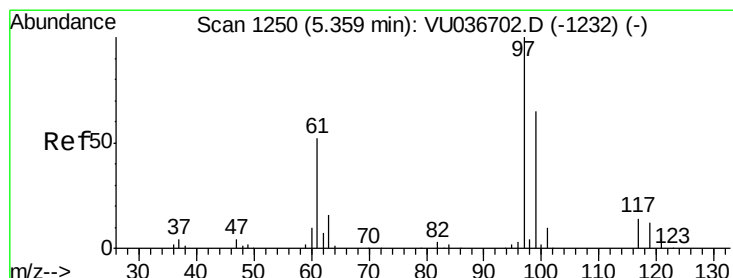
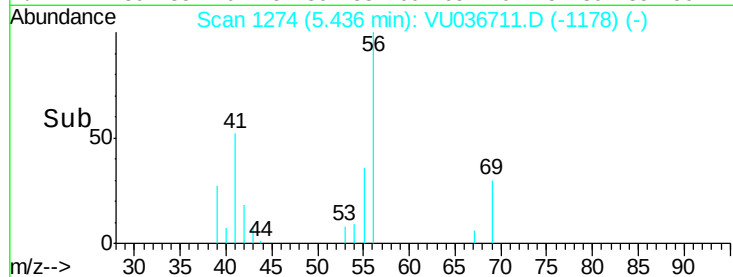
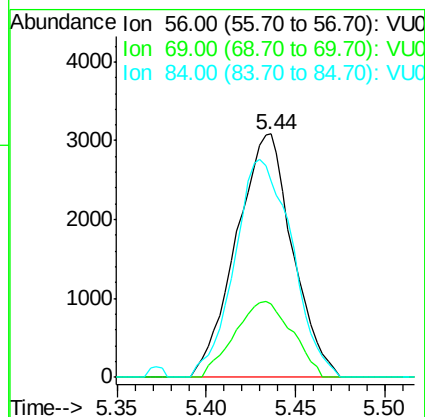
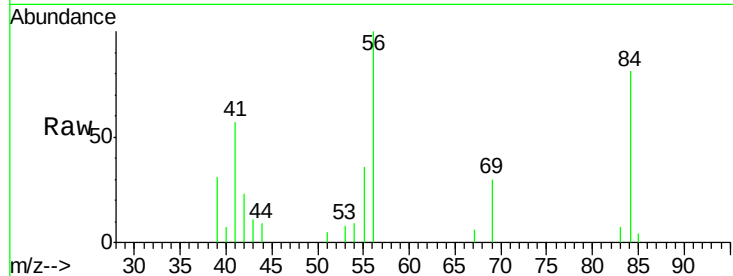




#29
Cyclohexane
Concen: 2.195 ug/L
RT: 5.44 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VU036711.D
Acq: 10 Feb 2020 15:55

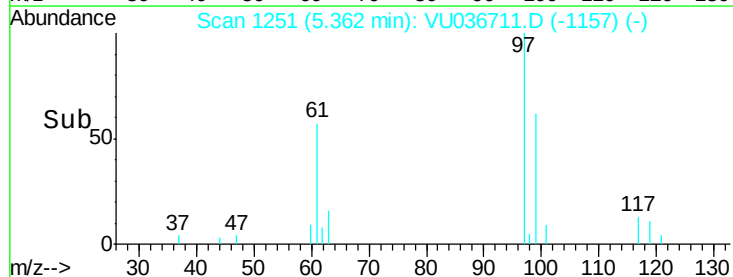
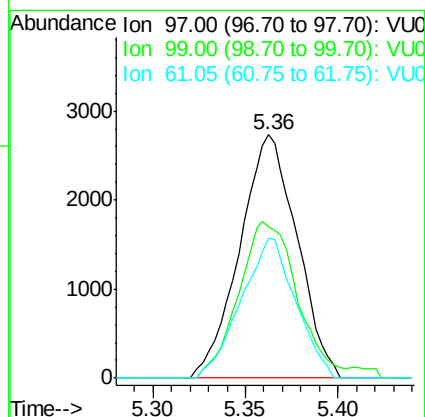
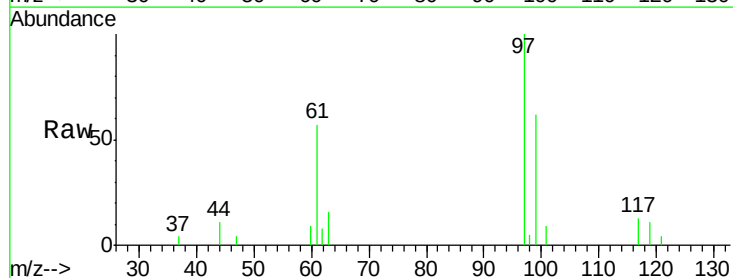
Instrument :
MSVOA_U
ClientSampleId :
MDL06

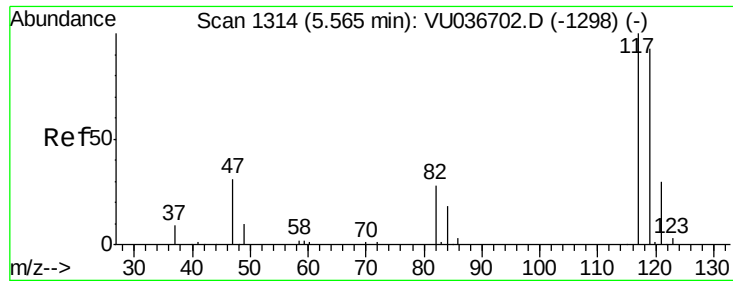
Tot Ion: 56 Resp: 6800
Ion Ratio Lower Upper
56 100
69 31.8 25.0 37.4
84 91.6 68.2 102.2



#30
1,1,1-Trichloroethane
Concen: 2.285 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU036711.D
Acq: 10 Feb 2020 15:55

Tgt Ion: 97 Resp: 5853
Ion Ratio Lower Upper
97 100
99 65.7 50.9 76.3
61 54.8 40.2 60.2





#31

Carbon tetrachloride

Concen: 2.168 ug/L

RT: 5.57 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

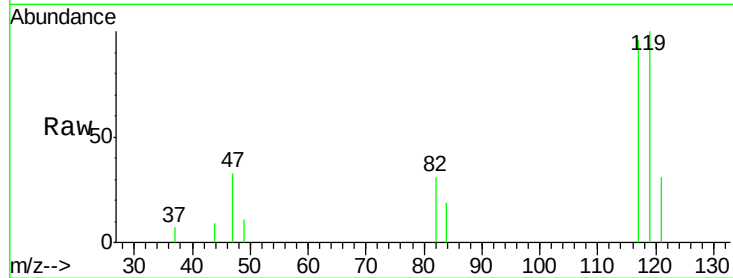
MDL06

Tot Ion:117 Resp: 4498

Ion Ratio Lower Upper

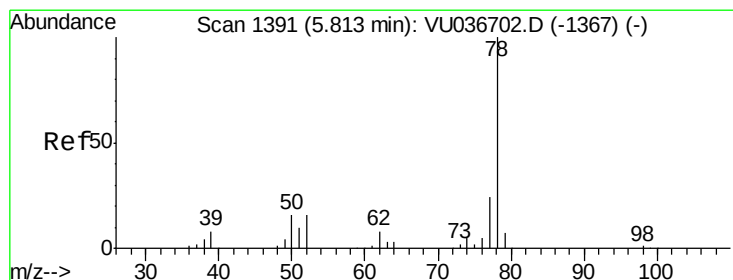
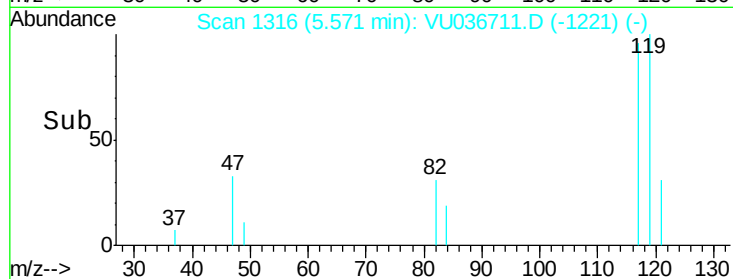
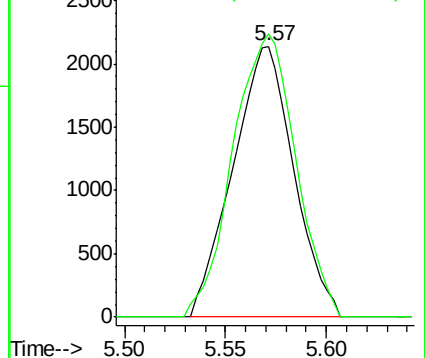
117 100

119 108.0 76.2 114.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 2.506 ug/L

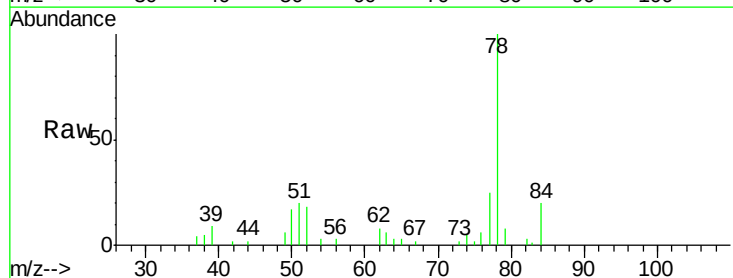
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

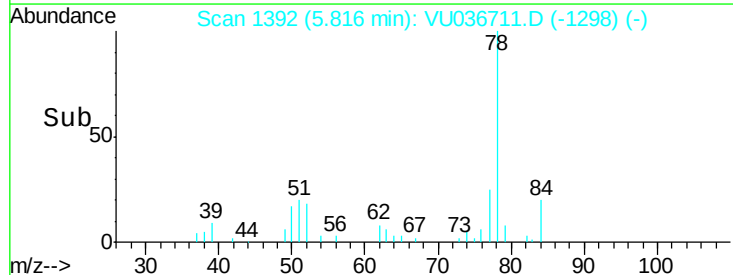
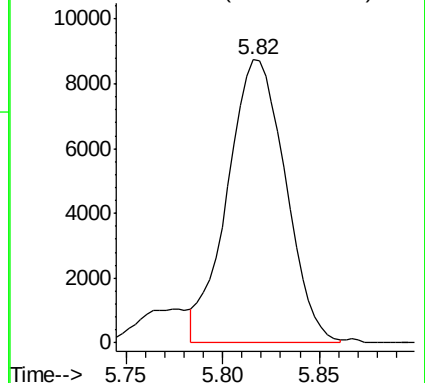
Lab File: VU036711.D

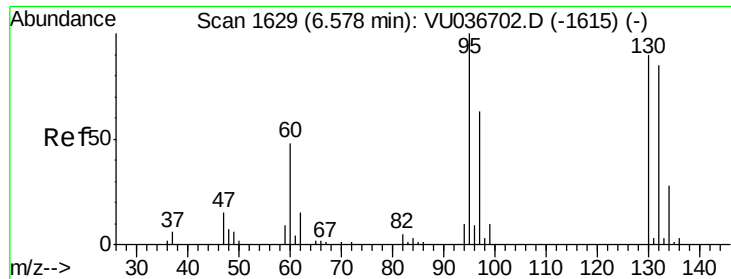
Acq: 10 Feb 2020 15:55

Tgt Ion: 78 Resp: 18279



Abundance Ion 78.00 (77.70 to 78.70): VU0

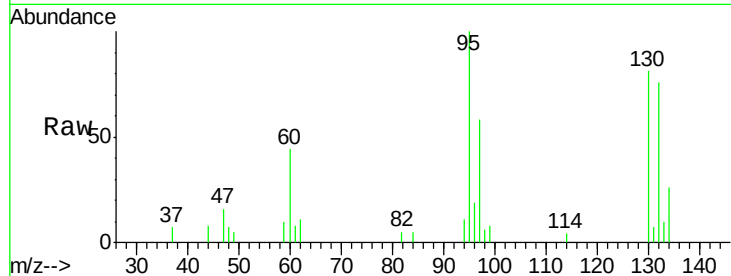




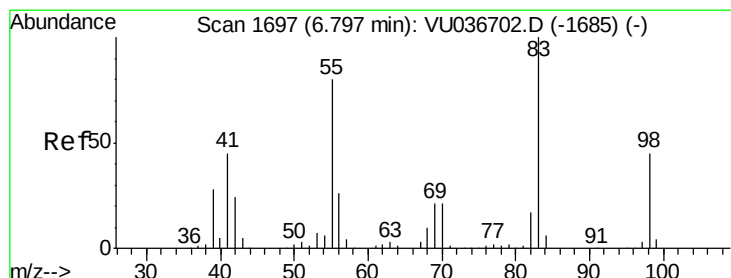
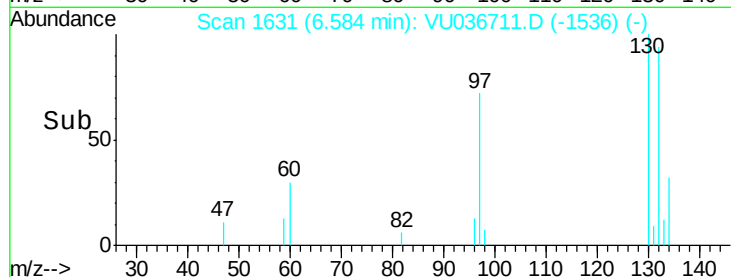
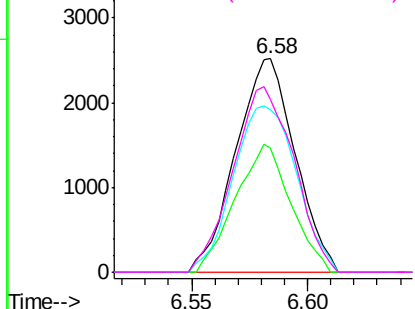
#34
 Trichloroethene
 Concen: 2.486 ug/L
 RT: 6.58 min Scan# 1631
 Delta R.T. 0.01 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion: 95 Resp: 4484
 Ion Ratio Lower Upper
 95 100
 97 58.1 44.5 82.7
 132 76.2 59.6 110.8
 130 80.6 65.0 120.8

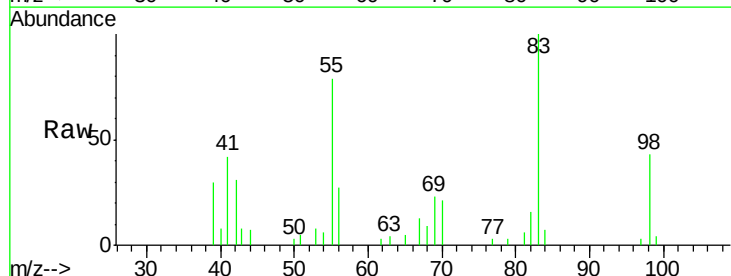


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

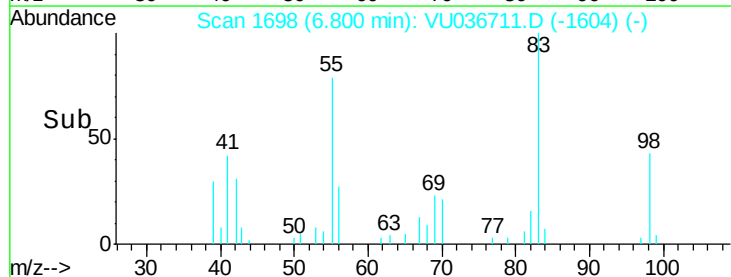
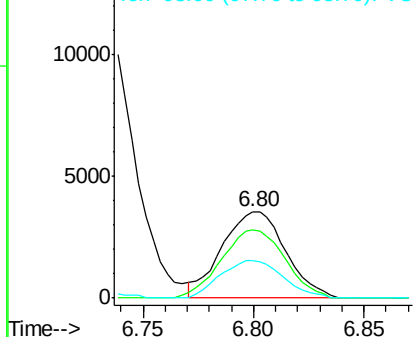


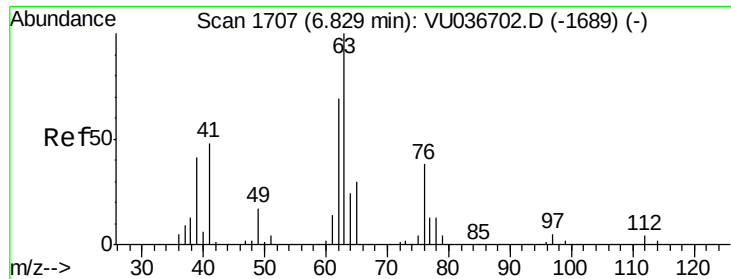
#35
 Methylcyclohexane
 Concen: 2.235 ug/L
 RT: 6.80 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Tgt Ion: 83 Resp: 7099
 Ion Ratio Lower Upper
 83 100
 55 79.0 61.2 91.8
 98 43.0 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: 2.406 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

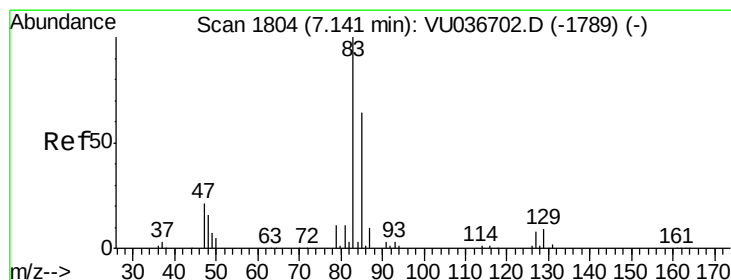
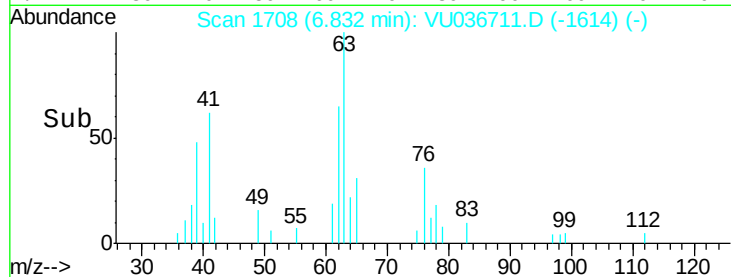
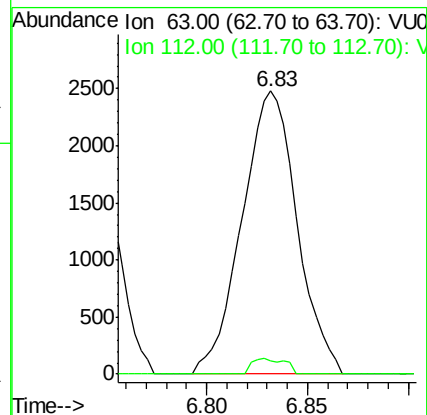
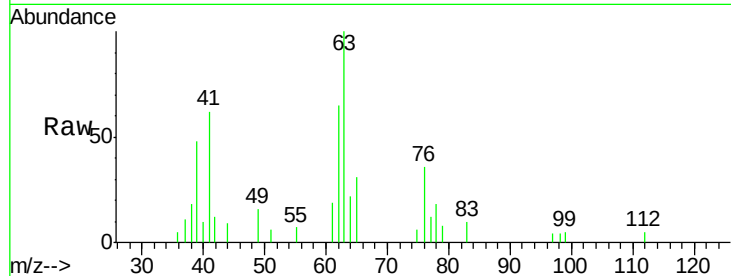
MDL06

Tot Ion: 63 Resp: 4732

Ion Ratio Lower Upper

63 100

112 2.5 3.1 4.7#



#38

Bromodichloromethane

Concen: 2.337 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

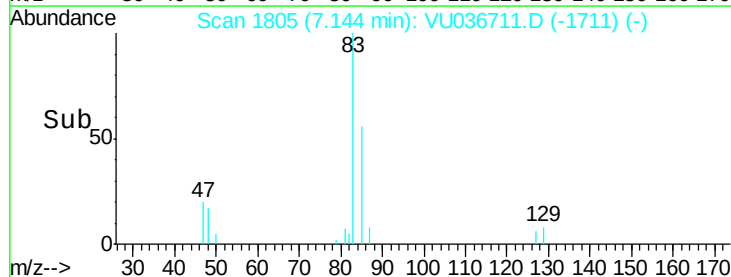
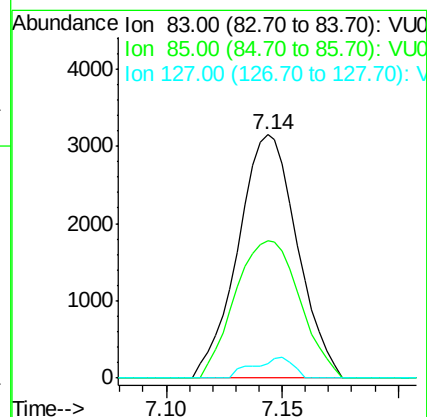
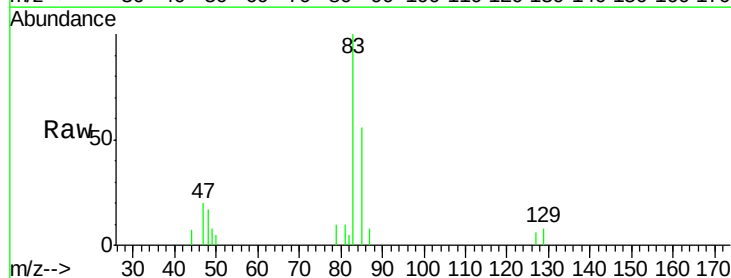
Tgt Ion: 83 Resp: 5587

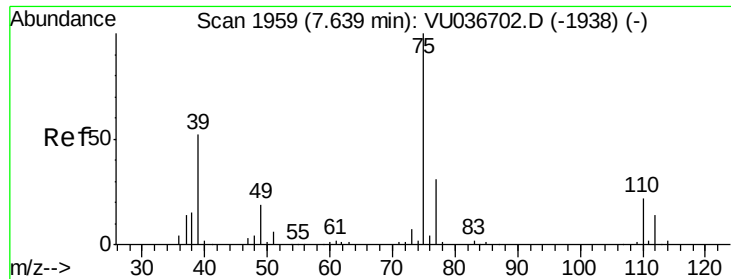
Ion Ratio Lower Upper

83 100

85 56.5 43.9 81.5

127 5.8 6.0 9.0#

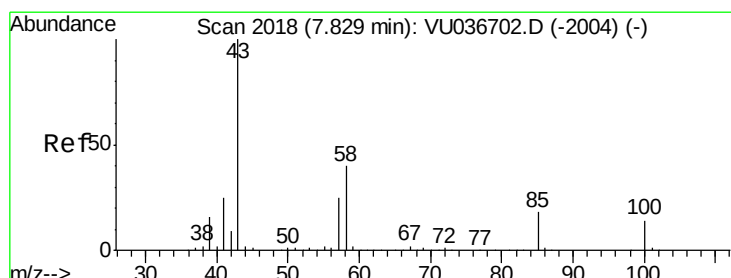
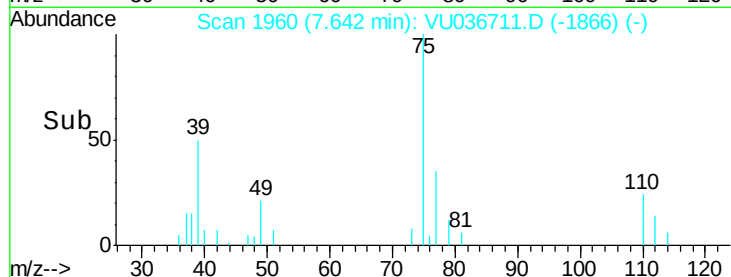
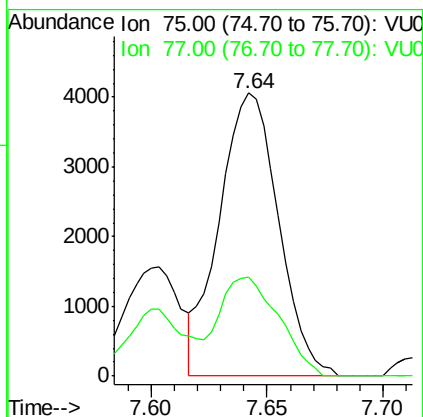
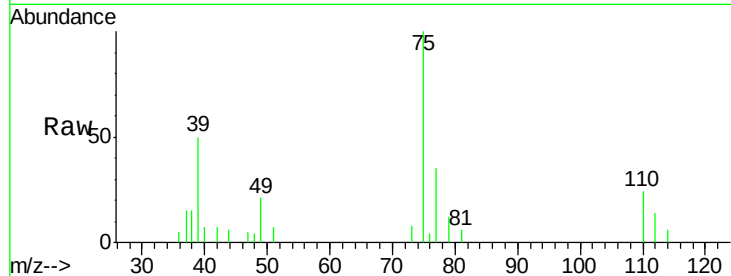




#39
 cis-1,3-Dichloropropene
 Concen: 2.290 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

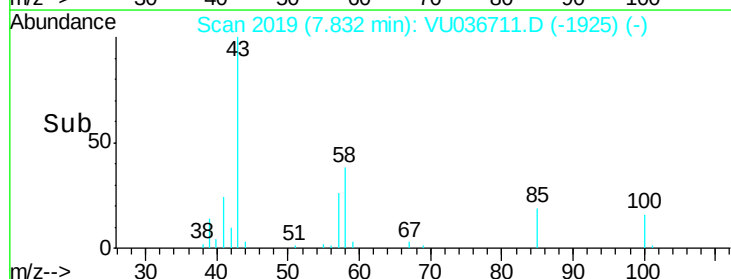
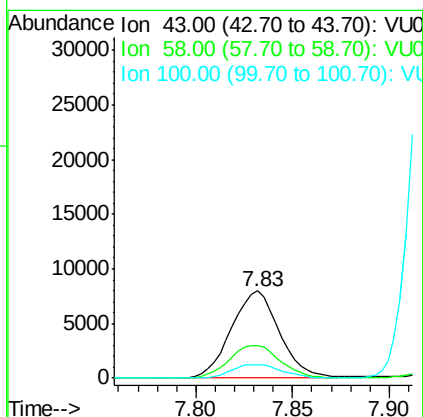
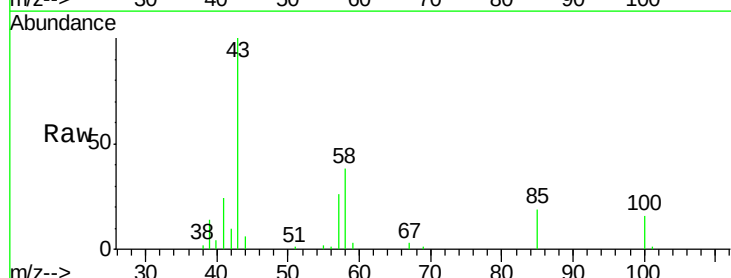
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

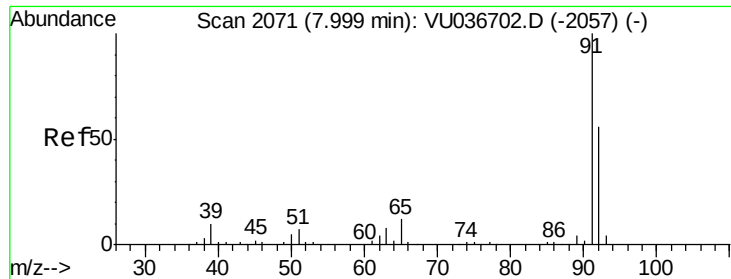
Tot Ion: 75 Resp: 7199
 Ion Ratio Lower Upper
 75 100
 77 34.9 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 4.469 ug/L
 RT: 7.83 min Scan# 2019
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Tgt Ion: 43 Resp: 13888
 Ion Ratio Lower Upper
 43 100
 58 39.5 31.0 46.6
 100 15.8 11.4 17.2





#42

Toluene

Concen: 2.435 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampled :

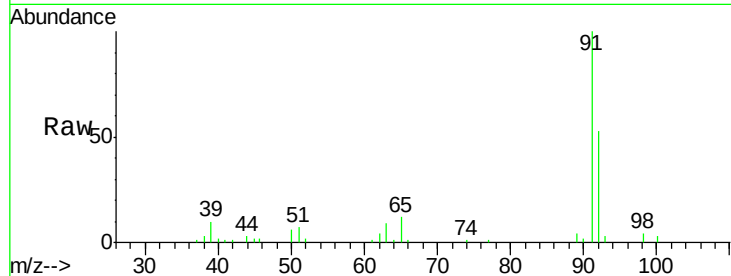
MDL06

Tot Ion: 91 Resp: 19190

Ion Ratio Lower Upper

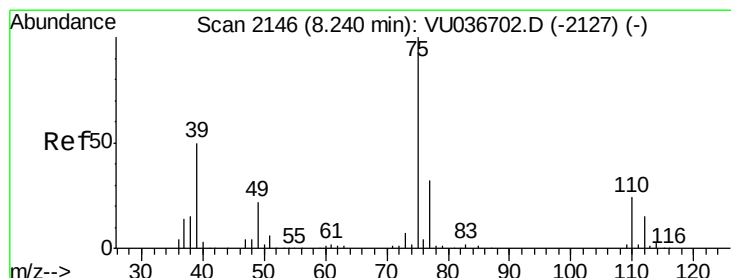
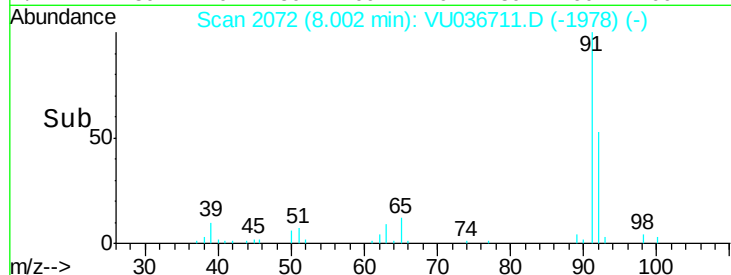
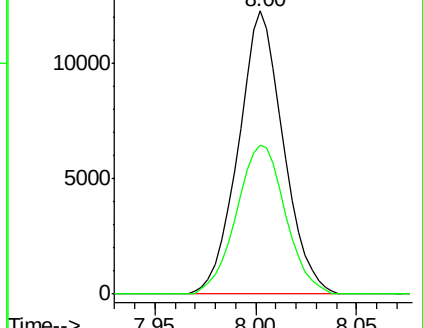
91 100

92 52.7 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VU036711.D (-2057) (-)

Ion 92.00 (91.70 to 92.70): VU036711.D (-2057) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.445 ug/L

RT: 8.25 min Scan# 2148

Delta R.T. 0.01 min

Lab File: VU036711.D

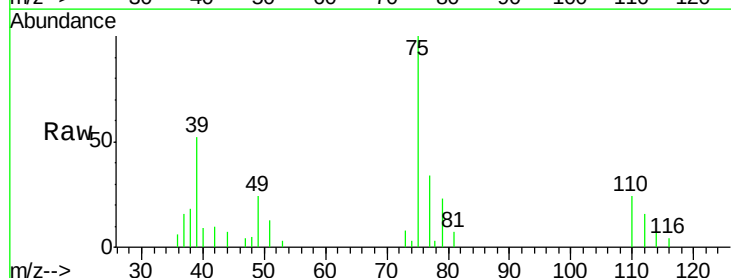
Acq: 10 Feb 2020 15:55

Tgt Ion: 75 Resp: 6712

Ion Ratio Lower Upper

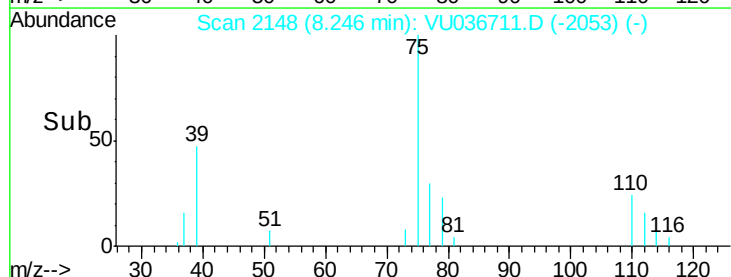
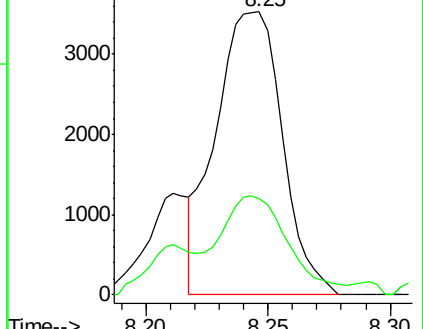
75 100

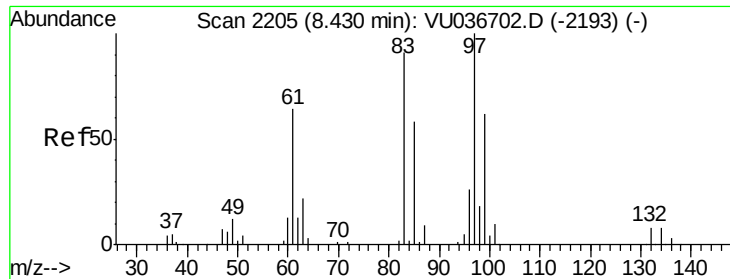
77 34.2 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VU036711.D (-2053) (-)

Ion 77.00 (76.70 to 77.70): VU036711.D (-2053) (-)

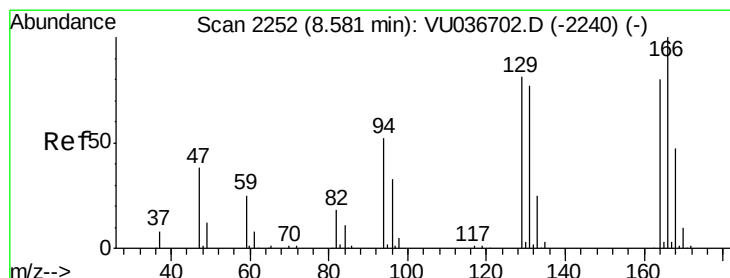
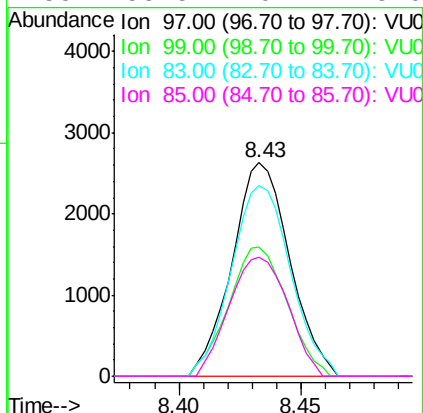
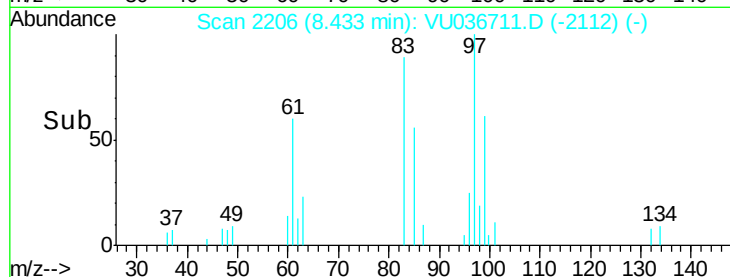
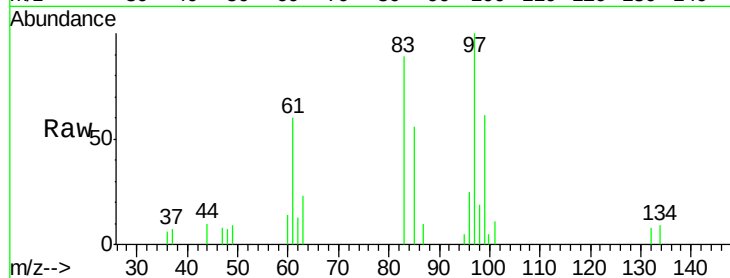




#45
 1,1,2-Trichloroethane
 Concen: 2.407 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

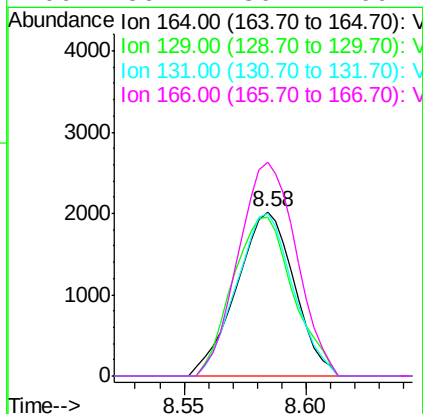
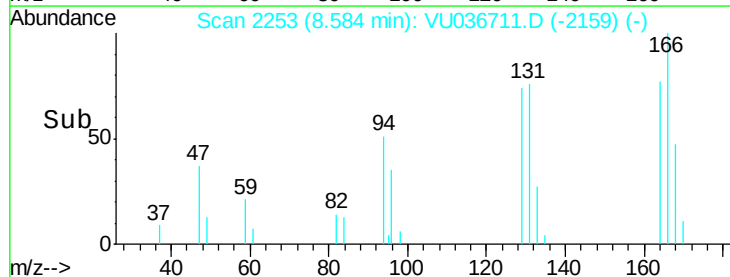
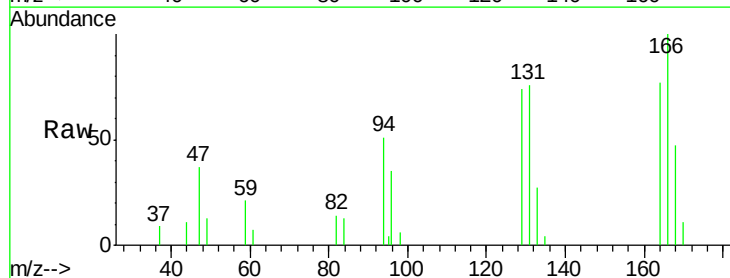
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

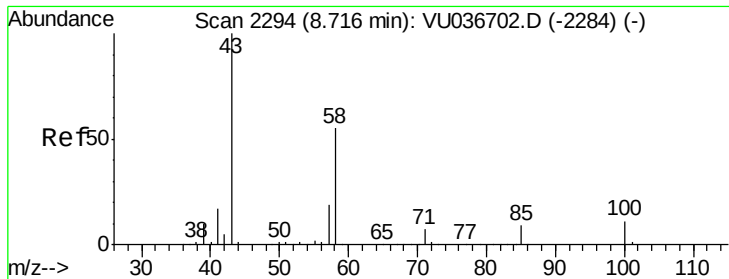
Tot Ion:	97	Resp:	4320
Ion	Ratio	Lower	Upper
97	100		
99	60.7	42.6	79.0
83	89.2	61.1	113.5
85	55.5	40.4	75.0



#46
 Tetrachloroethene
 Concen: 2.616 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Tgt Ion:	164	Resp:	3311
Ion	Ratio	Lower	Upper
164	100		
129	96.7	71.0	131.9
131	99.1	66.6	123.6
166	130.4	86.4	160.4





#48

2-Hexanone

Concen: 5.271 ug/L

RT: 8.72 min Scan# 2295

Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :
MSVOA_U
ClientSampled :
MDL06

Tot Ion: 43 Resp: 13364

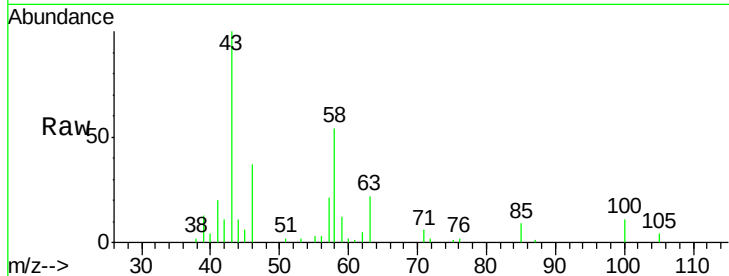
Ion Ratio Lower Upper

43 100

58 56.9 43.6 65.4

57 21.2 15.5 23.3

100 10.0 9.0 13.4

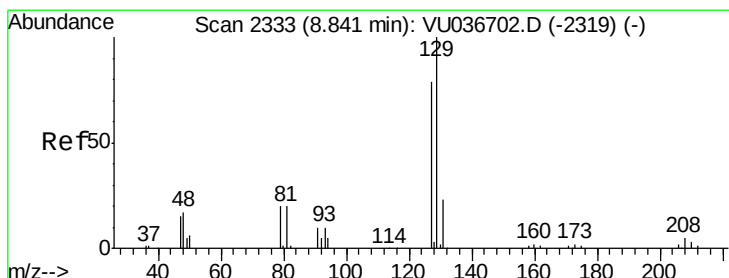
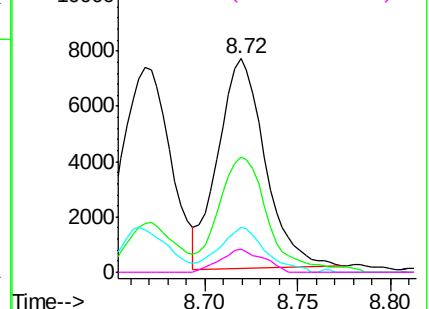
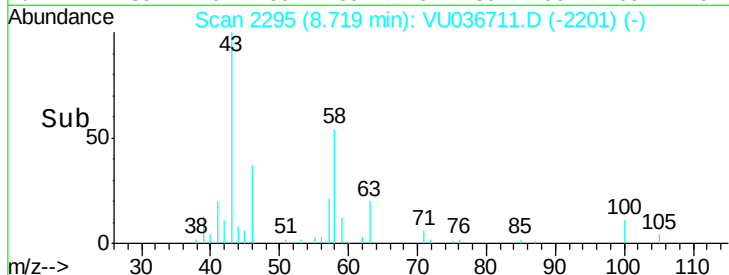


Abundance Ion 43.00 (42.70 to 43.70): VU036711.D (-2201) (-)

Ion 58.00 (57.70 to 58.70): VU036711.D (-2201) (-)

Ion 57.00 (56.70 to 57.70): VU036711.D (-2201) (-)

Ion 100.00 (99.70 to 100.70): VU036711.D (-2201) (-)



#49

Dibromochloromethane

Concen: 2.274 ug/L

RT: 8.84 min Scan# 2332

Delta R.T. -0.00 min

Lab File: VU036711.D

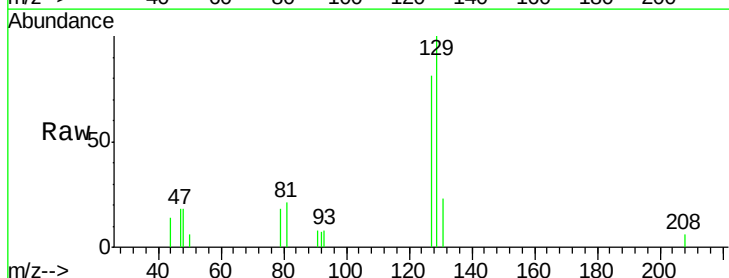
Acq: 10 Feb 2020 15:55

Tgt Ion: 129 Resp: 3991

Ion Ratio Lower Upper

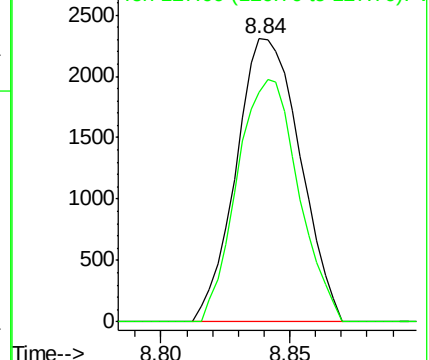
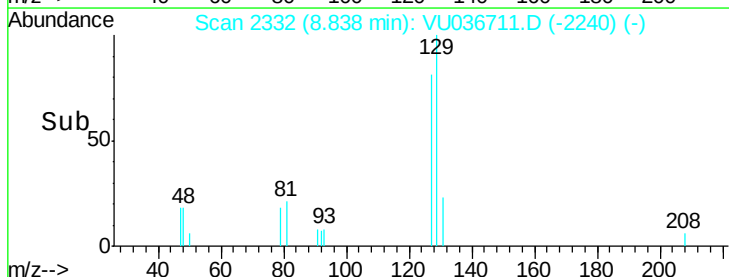
129 100

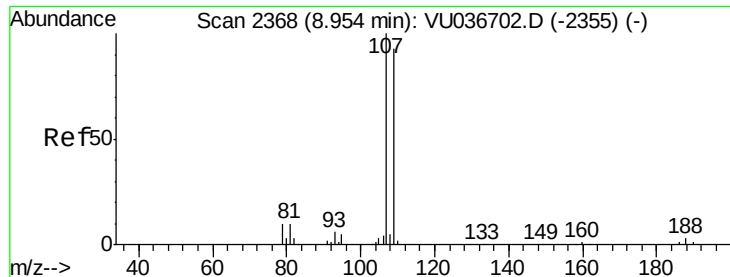
127 81.3 53.6 99.6



Abundance Ion 129.00 (128.70 to 129.70): VU036711.D (-2240) (-)

Ion 127.00 (126.70 to 127.70): VU036711.D (-2240) (-)

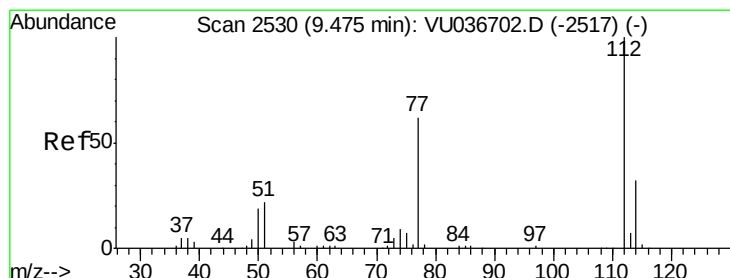
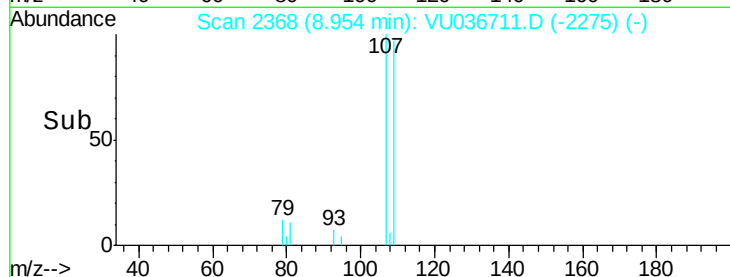
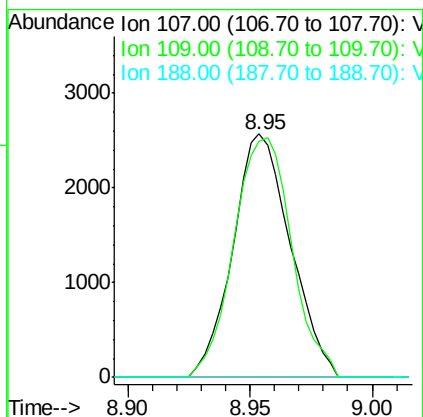
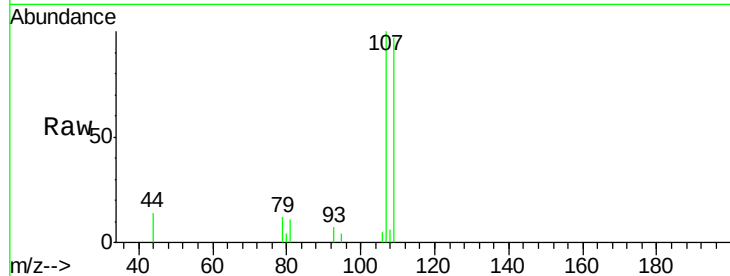




#50
 1,2-Dibromoethane
 Concen: 2.229 ug/L
 RT: 8.95 min Scan# 2368
 Delta R.T. -0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

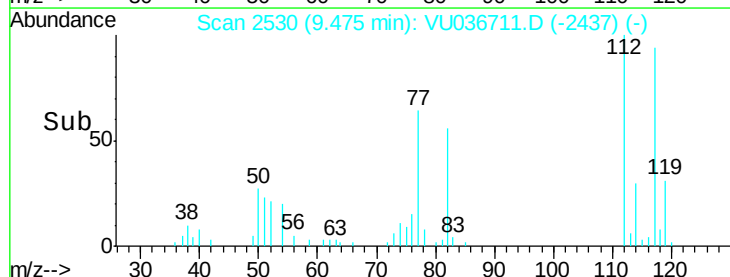
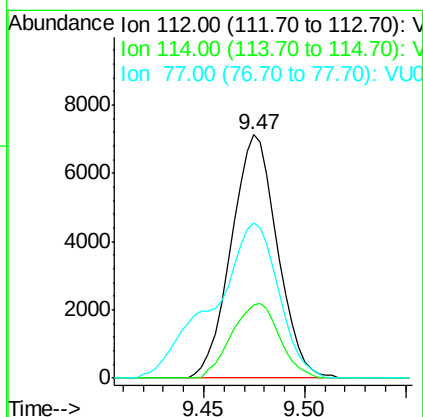
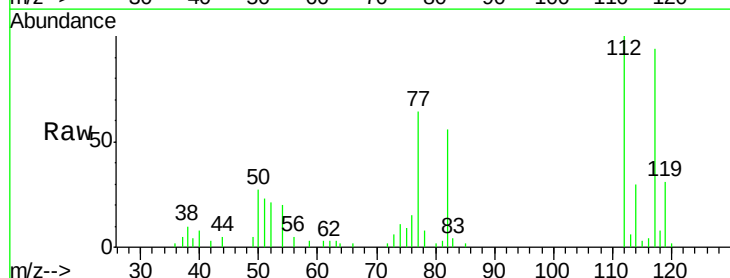
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

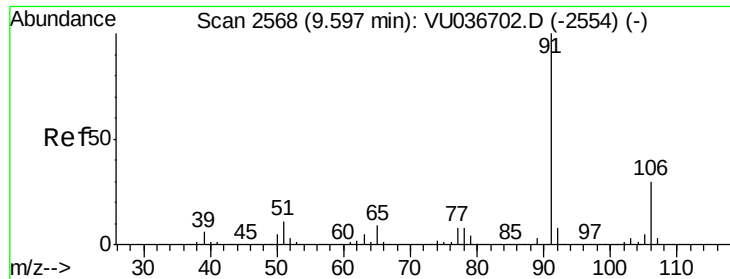
Tot Ion:107 Resp: 4203
 Ion Ratio Lower Upper
 107 100
 109 96.9 65.8 122.2
 188 0.0 2.5 3.7#



#51
 Chlorobenzene
 Concen: 2.405 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. -0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Tgt Ion:112 Resp: 11417
 Ion Ratio Lower Upper
 112 100
 114 30.0 22.7 42.1
 77 63.8 50.6 75.8





#52

Ethylbenzene

Concen: 2.318 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. -0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

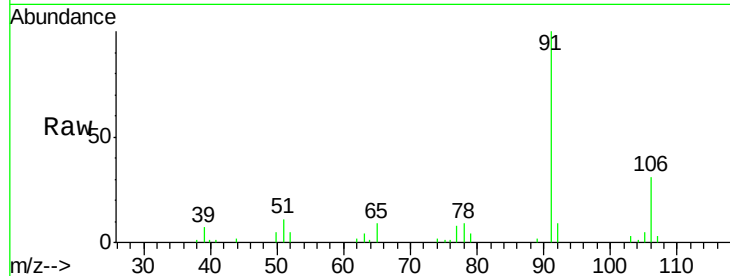
MDL06

Tot Ion: 91 Resp: 20081

Ion Ratio Lower Upper

91 100

106 31.5 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU036711.D (-2475) (-)

Ion 106.00 (105.70 to 106.70): VU036711.D (-2475) (-)

9.60

15000

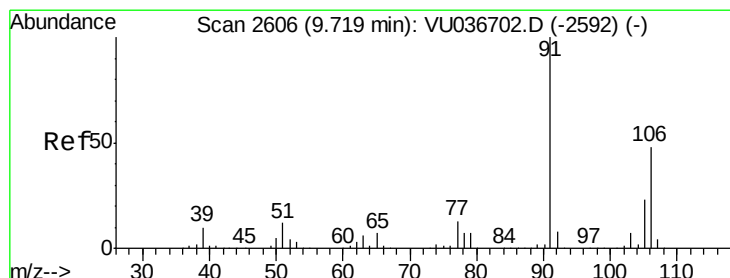
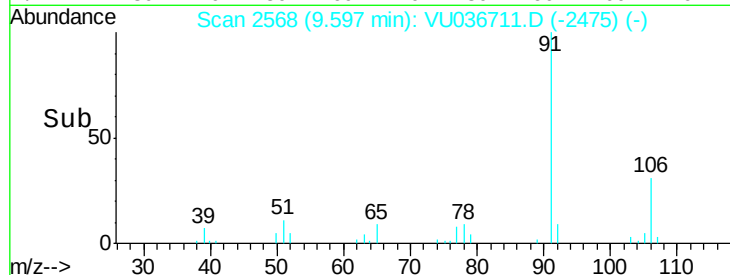
10000

5000

0

Time-->

9.55 9.60 9.65



#53

m,p-Xylene

Concen: 2.369 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036711.D

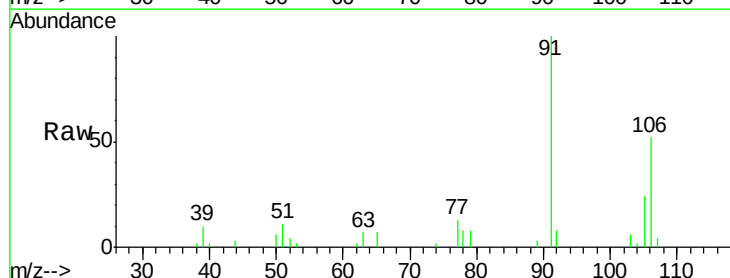
Acq: 10 Feb 2020 15:55

Tgt Ion: 106 Resp: 7570

Ion Ratio Lower Upper

106 100

91 190.5 145.9 270.9



Abundance Ion 106.00 (105.70 to 106.70): VU036711.D (-2513) (-)

Ion 91.00 (90.70 to 91.70): VU036711.D (-2513) (-)

9.72

10000

8000

6000

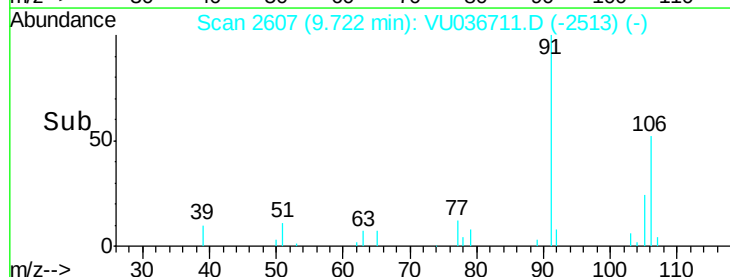
4000

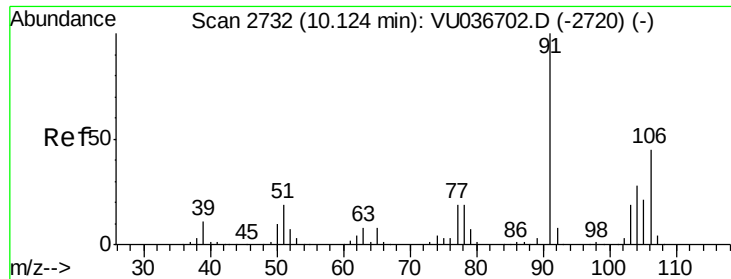
2000

0

Time-->

9.70 9.75





#54

o-xylene

Concen: 2.233 ug/L

RT: 10.12 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

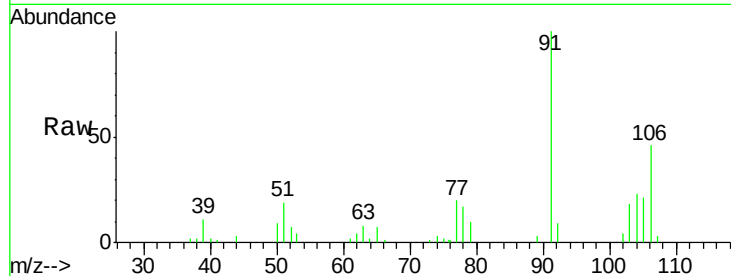
MDL06

Tot Ion:106 Resp: 7068

Ion Ratio Lower Upper

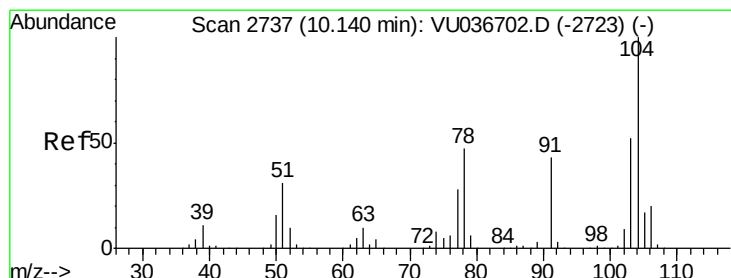
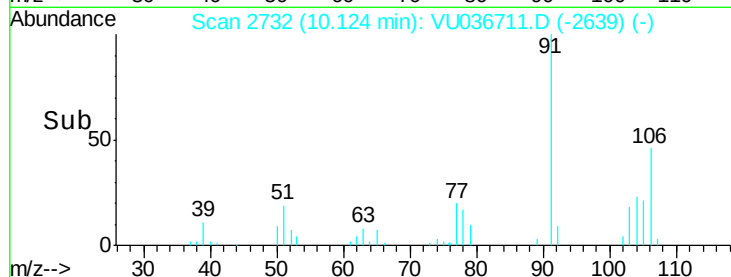
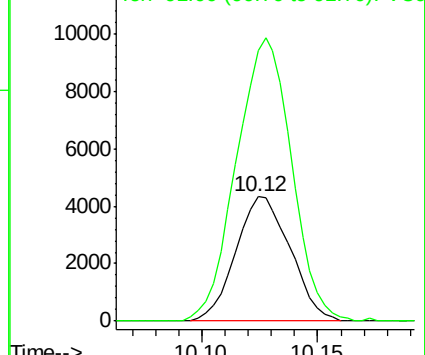
106 100

91 217.6 156.0 289.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.126 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. -0.00 min

Lab File: VU036711.D

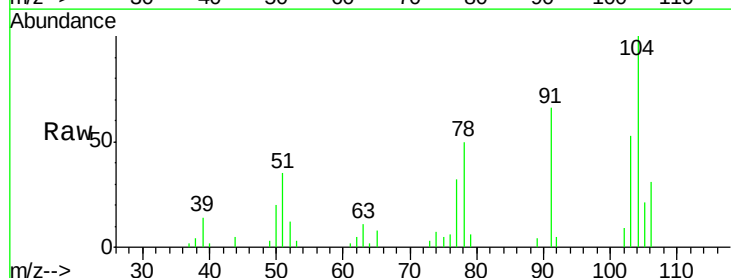
Acq: 10 Feb 2020 15:55

Tgt Ion:104 Resp: 11216

Ion Ratio Lower Upper

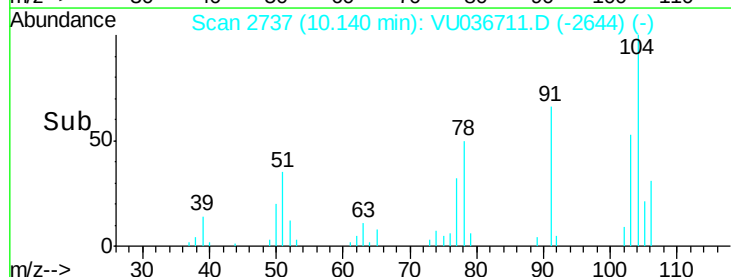
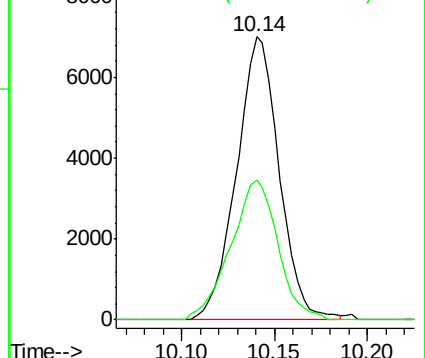
104 100

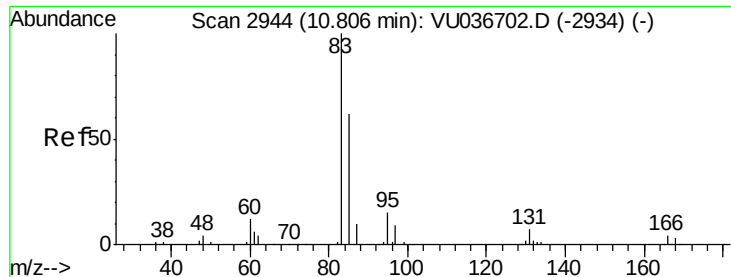
78 49.6 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

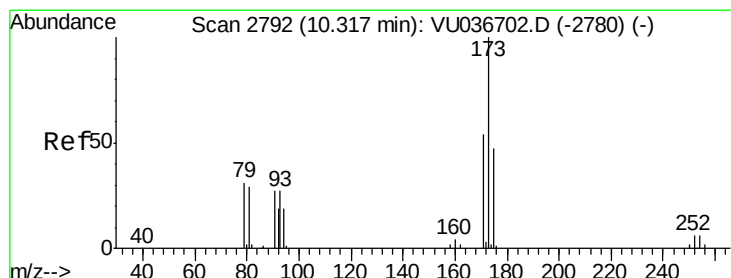
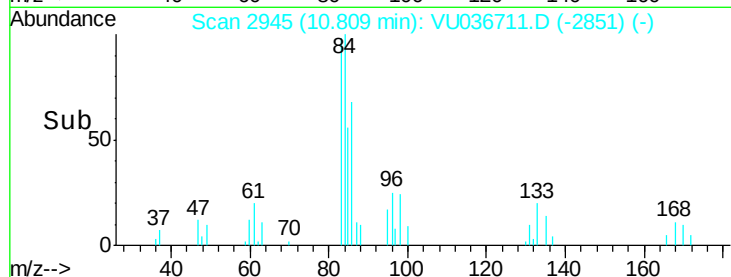
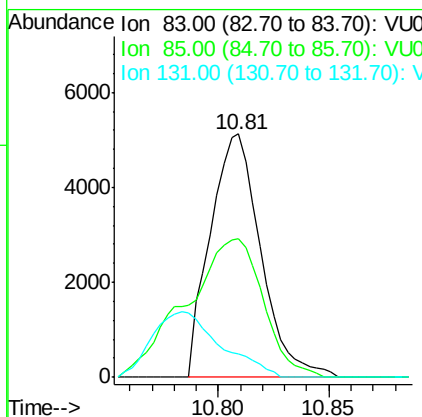
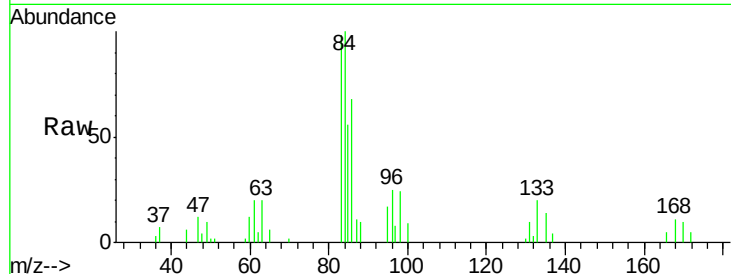




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.520 ug/L
 RT: 10.81 min Scan# 2945
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

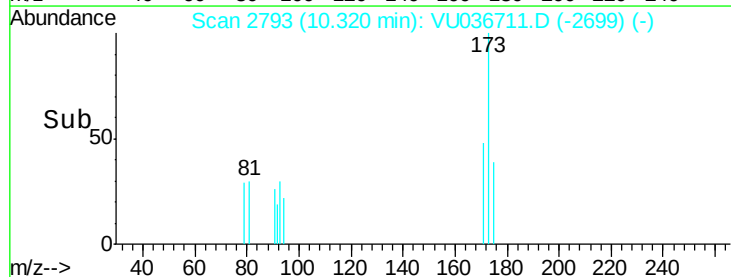
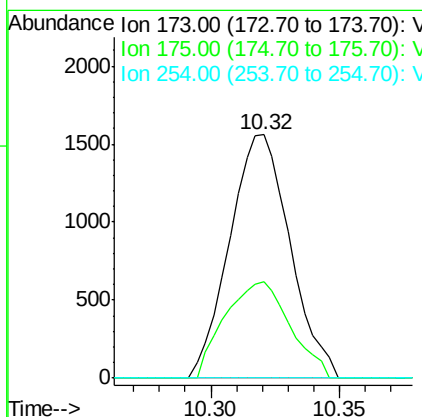
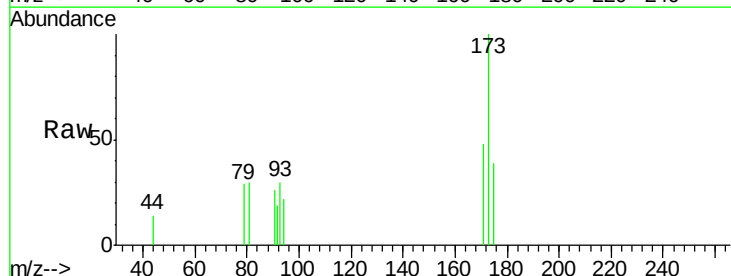
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

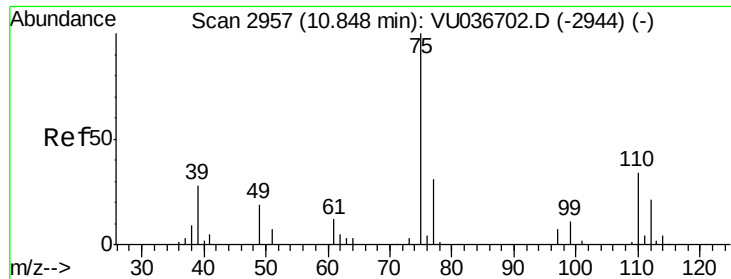
Tot Ion: 83 Resp: 8148
 Ion Ratio Lower Upper
 83 100
 85 56.9 44.7 82.9
 131 9.7 6.8 10.2



#59
 Bromoform
 Concen: 2.273 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Tgt Ion: 173 Resp: 2557
 Ion Ratio Lower Upper
 173 100
 175 42.6 38.2 57.4
 254 0.0 4.8 7.2#

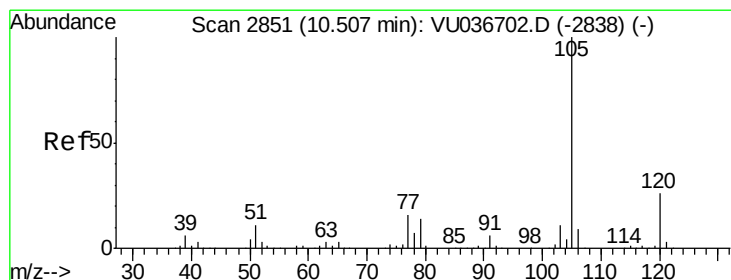
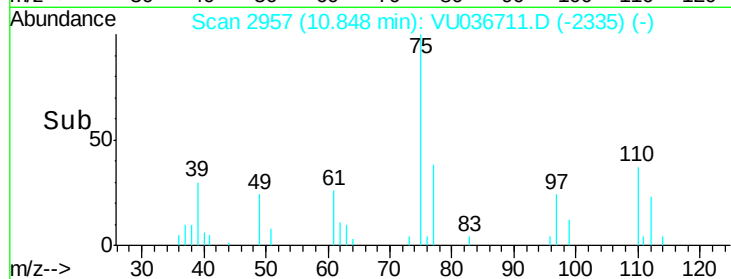
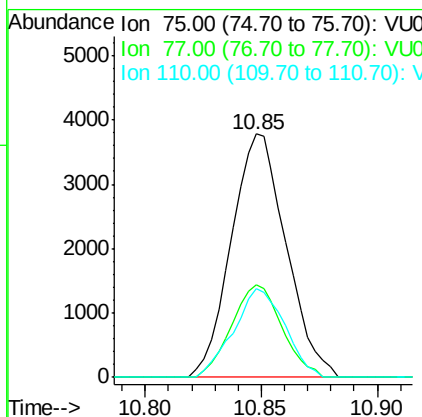
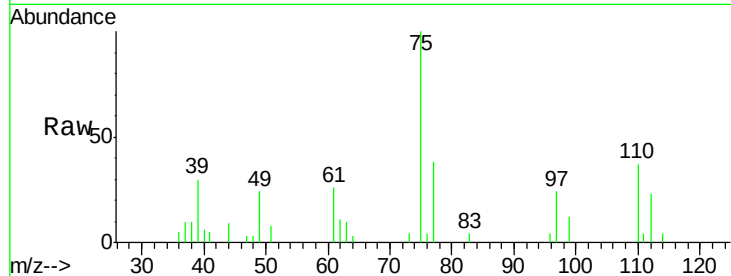




#60
 1,2,3-Trichloropropane
 Concen: 2.585 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. -0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

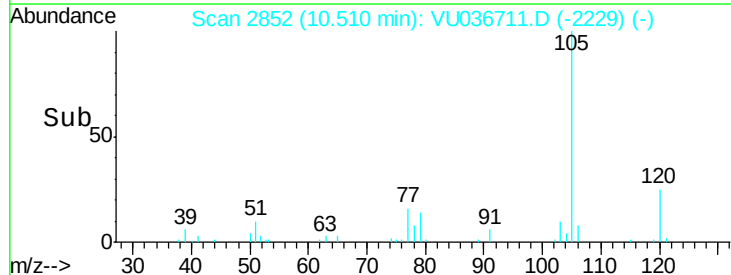
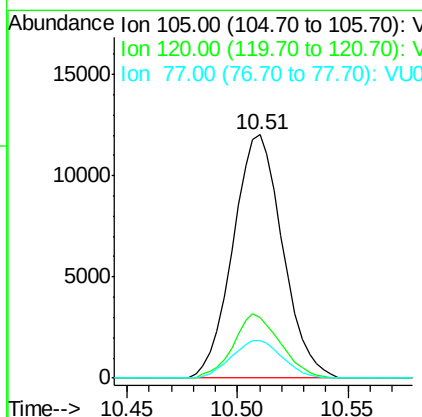
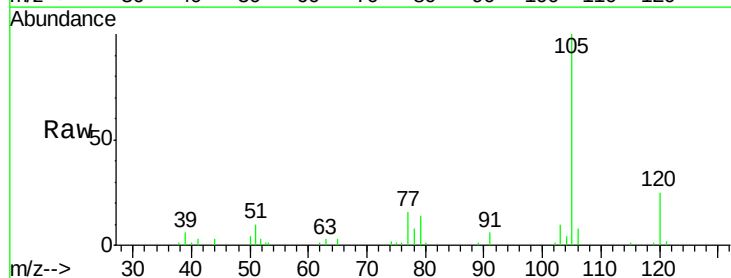
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

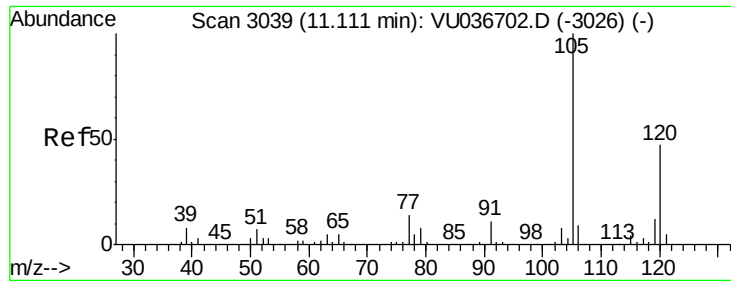
Tot Ion: 75 Resp: 6193
 Ion Ratio Lower Upper
 75 100
 77 35.0 26.1 39.1
 110 34.2 26.9 40.3



#61
 Isopropylbenzene
 Concen: 2.480 ug/L
 RT: 10.51 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Tgt Ion: 105 Resp: 18806
 Ion Ratio Lower Upper
 105 100
 120 24.8 20.2 30.4
 77 15.9 13.0 19.6





#62

1,3,5-Trimethylbenzene

Concen: 2.351 ug/L

RT: 11.11 min Scan# 3039

Delta R.T. -0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

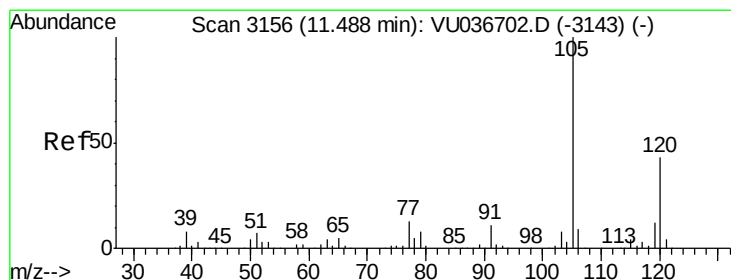
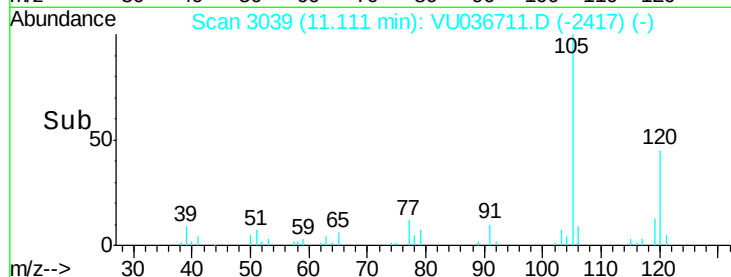
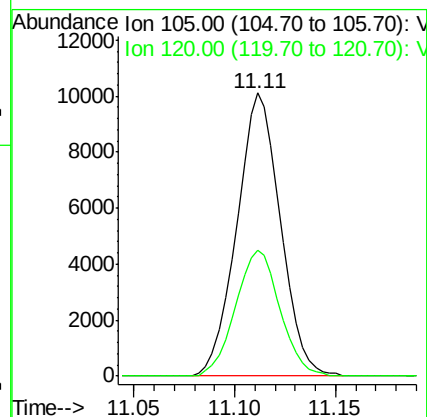
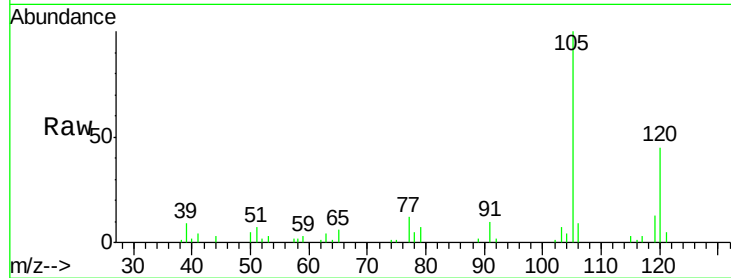
MDL06

Tot Ion:105 Resp: 15285

Ion Ratio Lower Upper

105 100

120 45.2 37.1 55.7



#63

1,2,4-Trimethylbenzene

Concen: 2.277 ug/L

RT: 11.49 min Scan# 3157

Delta R.T. 0.00 min

Lab File: VU036711.D

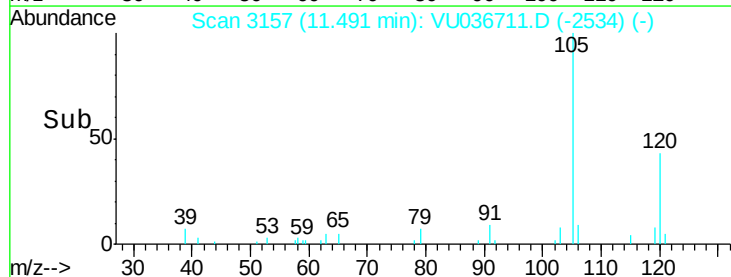
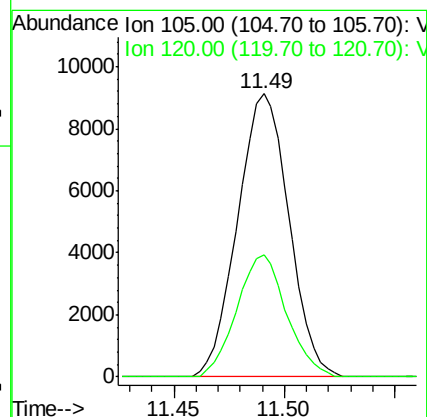
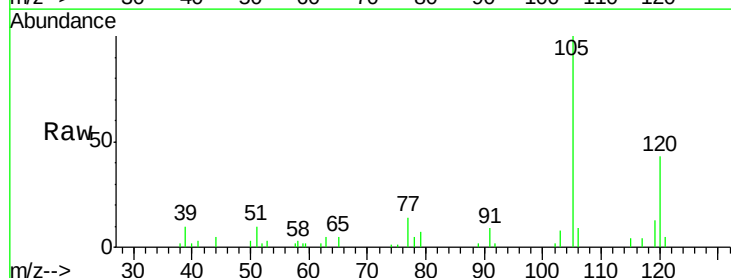
Acq: 10 Feb 2020 15:55

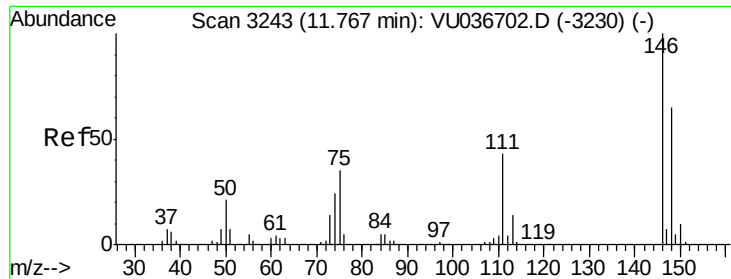
Tgt Ion:105 Resp: 14781

Ion Ratio Lower Upper

105 100

120 41.8 34.7 52.1

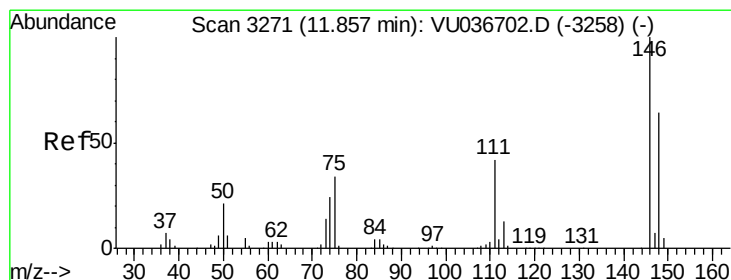
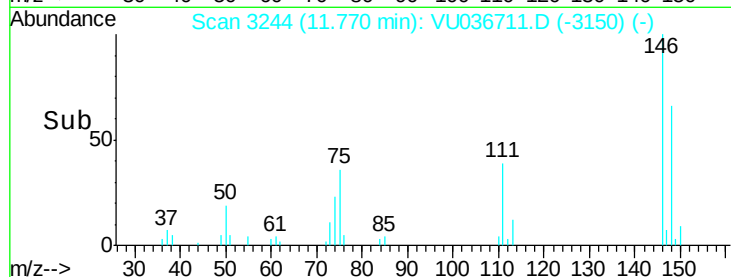
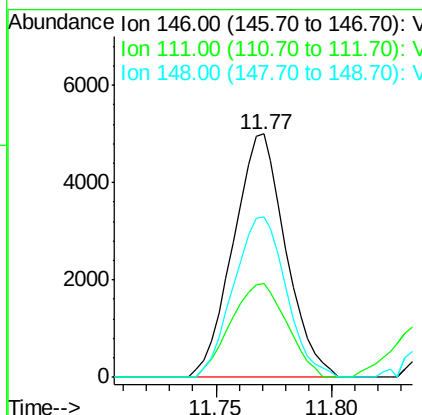
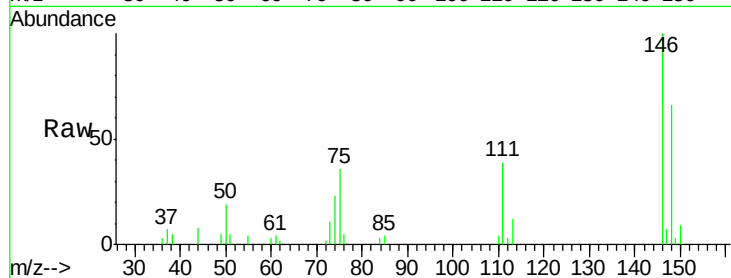




#64
 1,3-Dichlorobenzene
 Concen: 2.469 ug/L
 RT: 11.77 min Scan# 3244
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

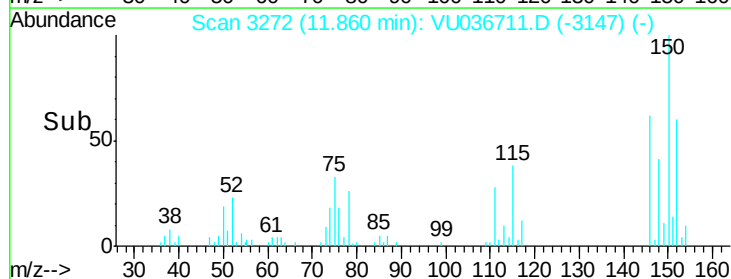
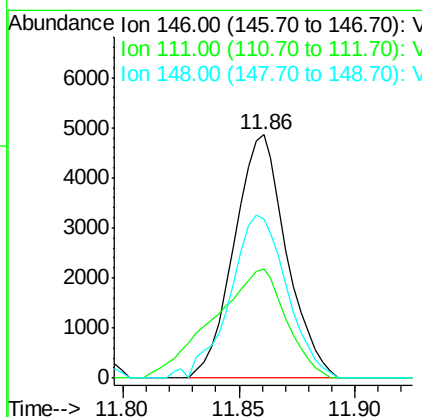
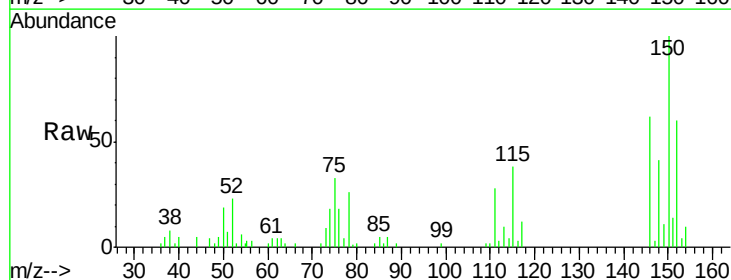
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

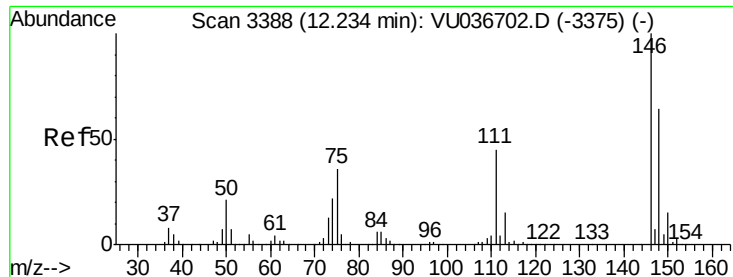
Tot Ion:146 Resp: 7873
 Ion Ratio Lower Upper
 146 100
 111 38.6 30.4 56.4
 148 65.8 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 2.366 ug/L
 RT: 11.86 min Scan# 3272
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Tgt Ion:146 Resp: 7596
 Ion Ratio Lower Upper
 146 100
 111 45.1 29.3 54.3
 148 65.4 44.8 83.2

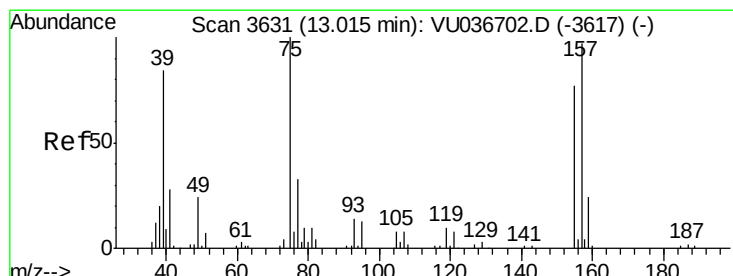
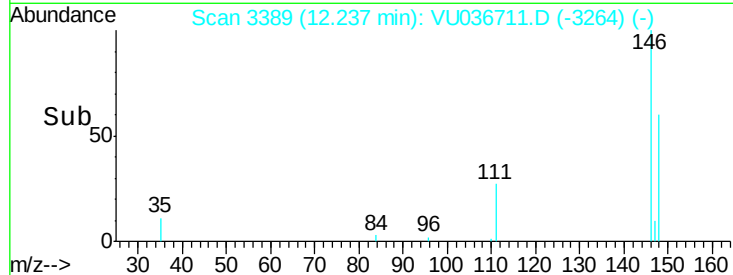
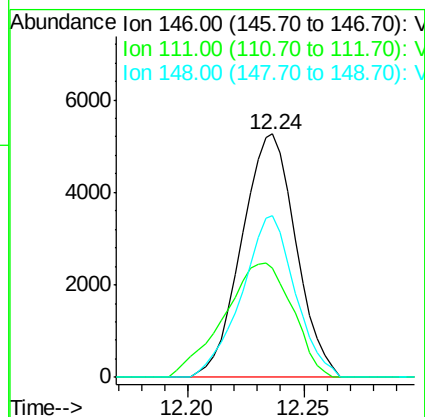
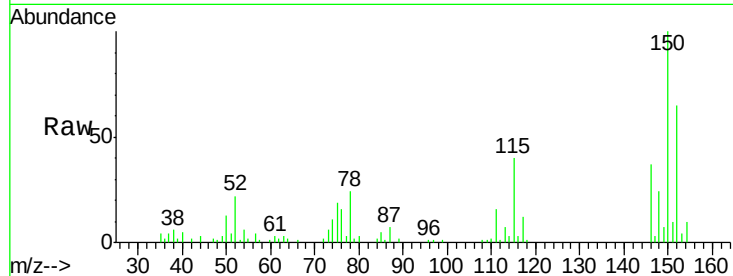




#67
 1,2-Dichlorobenzene
 Concen: 2.643 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

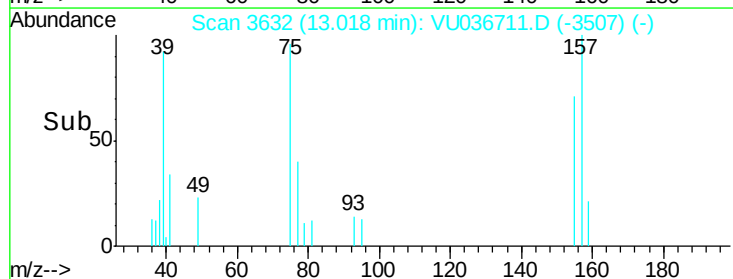
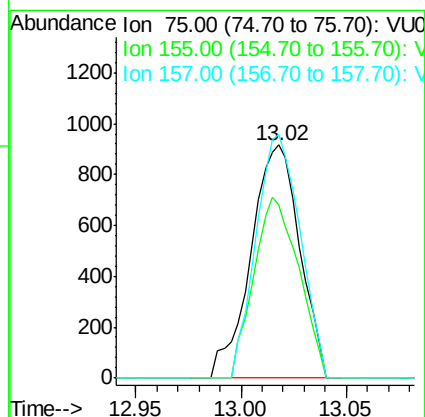
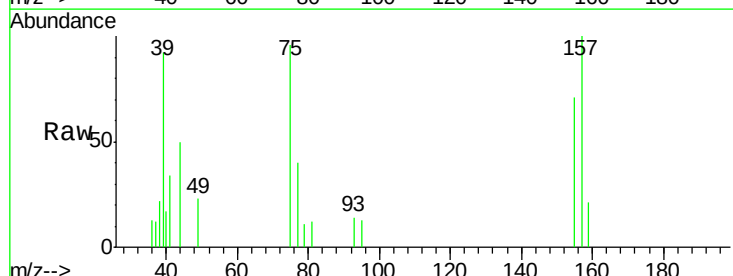
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

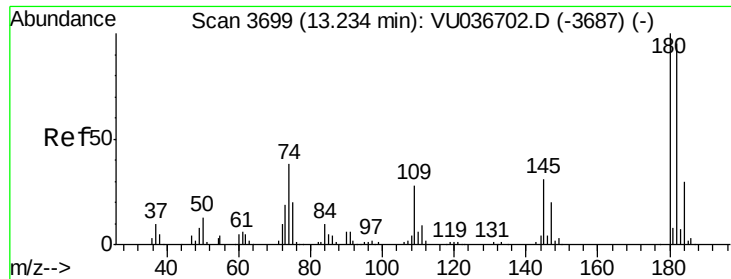
Tot Ion:146 Resp: 8533
 Ion Ratio Lower Upper
 146 100
 111 44.7 35.4 53.0
 148 66.3 50.4 75.6



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.150 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Tgt Ion: 75 Resp: 1472
 Ion Ratio Lower Upper
 75 100
 155 74.2 58.7 88.1
 157 104.4 77.8 116.6

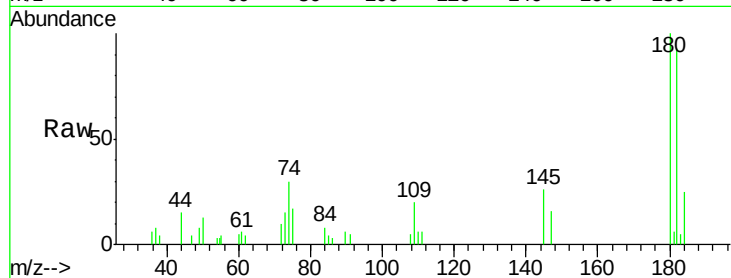




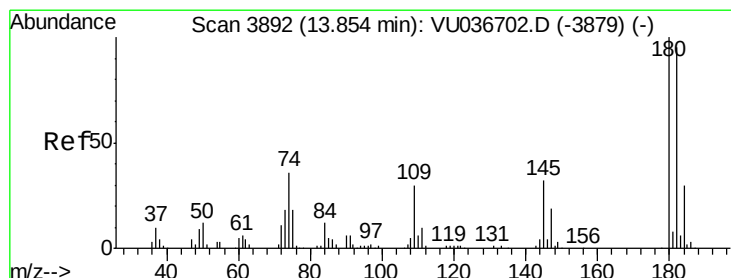
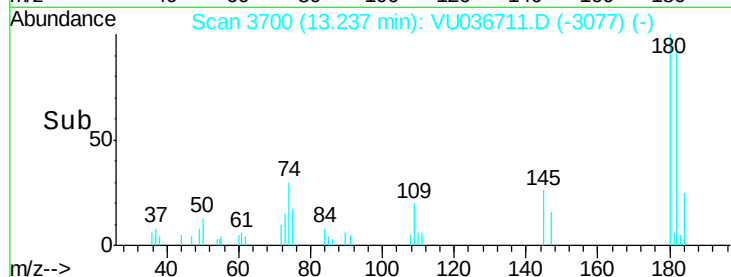
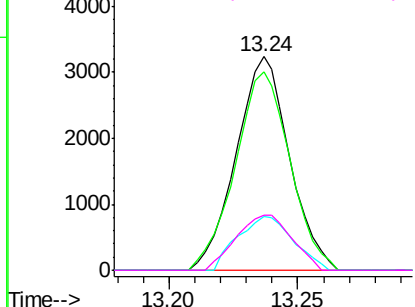
#69
 1,3,5-Trichlorobenzene
 Concen: 2.113 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Tot Ion:180 Resp: 4673
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.2 114.4
 184 26.2 23.8 35.6
 145 27.0 25.0 37.6

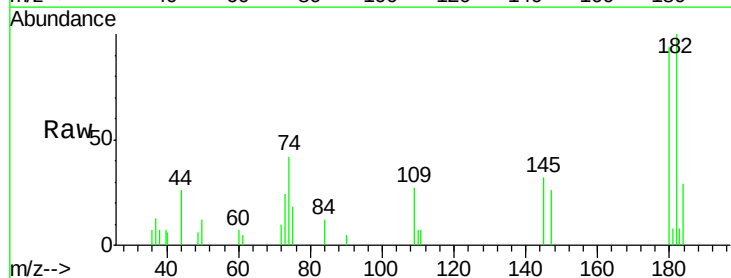


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

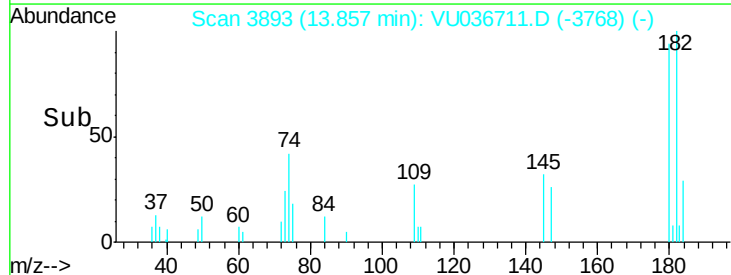
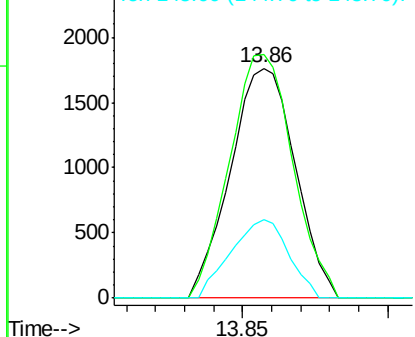


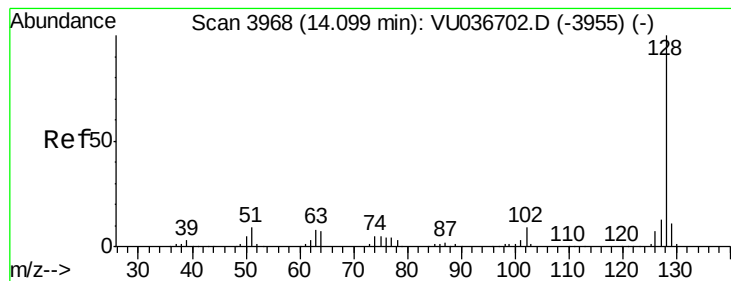
#70
 1,2,4-trichlorobenzene
 Concen: 1.486 ug/L
 RT: 13.86 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU036711.D
 Acq: 10 Feb 2020 15:55

Tgt Ion:180 Resp: 2740
 Ion Ratio Lower Upper
 180 100
 182 103.3 76.1 114.1
 145 30.4 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: 1.400 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. 0.01 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

Instrument :

MSVOA_U

ClientSampleId :

MDL06

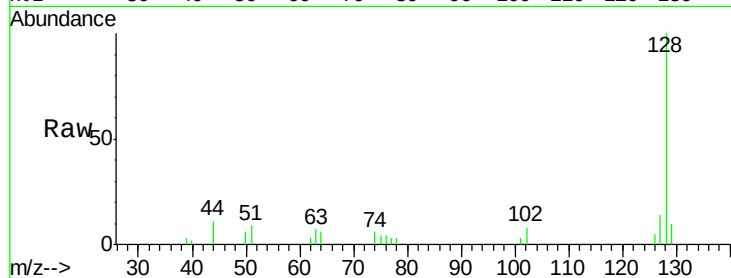
Tot Ion:128 Resp: 9100

Ion Ratio Lower Upper

128 100

127 12.7 10.6 16.0

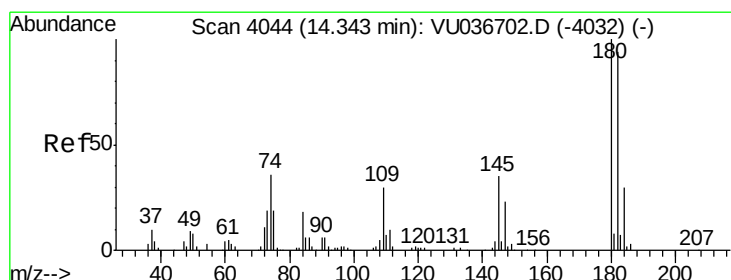
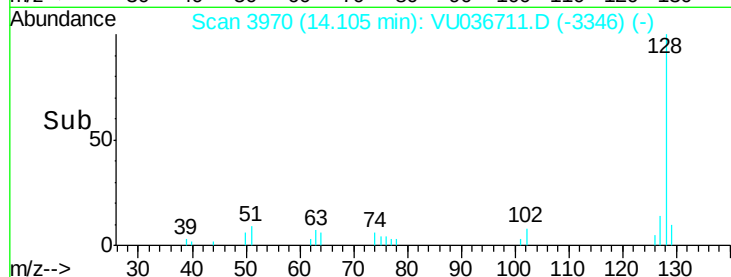
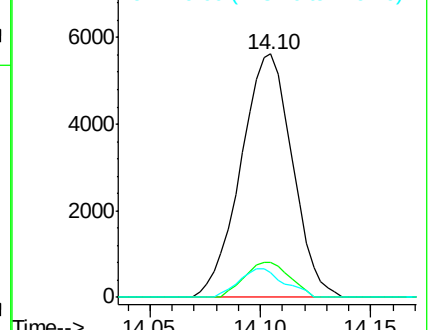
129 10.3 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#72

1,2,3-Trichlorobenzene

Concen: 1.695 ug/L

RT: 14.35 min Scan# 4045

Delta R.T. 0.00 min

Lab File: VU036711.D

Acq: 10 Feb 2020 15:55

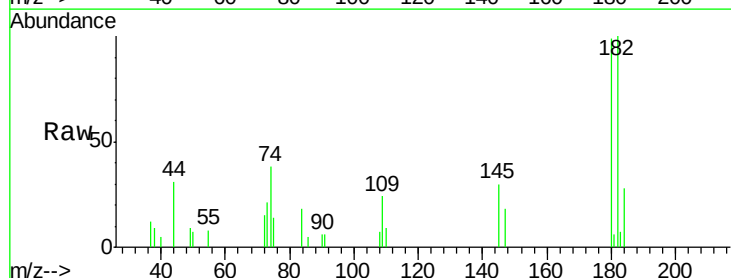
Tgt Ion:180 Resp: 3114

Ion Ratio Lower Upper

180 100

182 96.4 76.8 115.2

145 31.5 27.5 41.3



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

