

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020620\
 Data File : VU036688.D
 Acq On : 06 Feb 2020 16:06
 Operator : JC/MD
 Sample : MDL02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Quant Time: Feb 07 04:55:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Fri Feb 07 04:51:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	257468	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	241984	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	103753	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	82421	48.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	96.00%
7) Chloroethane-d5	1.93	69	77170	48.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	96.94%
11) 1,1-Dichloroethene-d2	2.59	63	118863	36.67	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.34%
21) 2-Butanone-d5	4.68	46	159644	108.98	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	108.98%
24) Chloroform-d	5.11	84	147912	47.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.75	65	106581	50.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.28%
32) Benzene-d6	5.77	84	322175	50.64	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.28%
36) 1,2-Dichloropropane-d6	6.73	67	107577	50.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.88%
41) Toluene-d8	7.93	98	289089	49.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.24%
43) trans-1,3-Dichloropropene-	8.21	79	48974	48.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.86%
47) 2-Hexanone-d5	8.67	63	125275	103.94	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.94%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	153627	49.36	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.72%
66) 1,2-Dichlorobenzene-d4	12.21	152	99276	52.67	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.34%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	4643	2.610	ug/L	97
3) Chloromethane	1.54	50	5409	2.566	ug/L	100
5) Vinyl chloride	1.62	62	6041	2.662	ug/L #	60
6) Bromomethane	1.87	94	3524	2.476	ug/L	94
8) Chloroethane	1.95	64	4498	3.122	ug/L	86
9) Trichlorofluoromethane	2.16	101	6541	2.425	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	5041	3.120	ug/L #	85
12) 1,1-Dichloroethene	2.60	96	4849	3.083	ug/L #	1
13) Acetone	2.66	43	9890	6.355	ug/L	97
14) Carbon disulfide	2.82	76	12180	2.592	ug/L	99
15) Methyl Acetate	2.99	43	6238	2.773	ug/L	99
16) Methylene chloride	3.08	84	5178	2.667	ug/L	98
17) trans-1,2-Dichloroethene	3.39	96	4470	2.671	ug/L	97
18) Methyl tert-butyl Ether	3.41	73	13967	2.405	ug/L	99
19) 1,1-Dichloroethane	3.92	63	8469	2.540	ug/L	97
20) cis-1,2-Dichloroethene	4.72	96	4630	2.428	ug/L	86
22) 2-Butanone	4.76	43	9942	5.383	ug/L	97

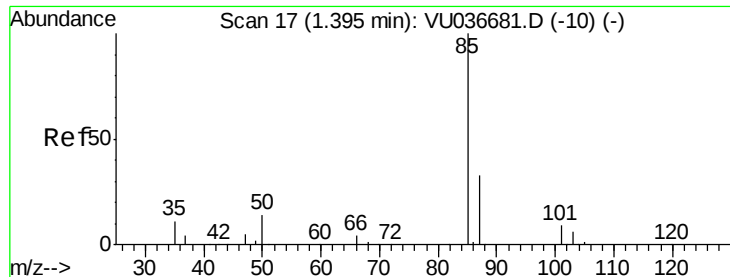
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU020620\
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 QLast Update : Fri Feb 07 04:51:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.03	128	2217	2.481	ug/L	90
25) Chloroform	5.14	83	9040	2.788	ug/L	87
27) 1,2-Dichloroethane	5.84	62	6912	2.535	ug/L	99
29) Cyclohexane	5.43	56	7779	2.503	ug/L	100
30) 1,1,1-Trichloroethane	5.36	97	6572	2.557	ug/L	96
31) Carbon tetrachloride	5.57	117	5427	2.607	ug/L	98
33) Benzene	5.82	78	18956	2.590	ug/L	100
34) Trichloroethene	6.58	95	5152	2.847	ug/L	92
35) Methylcyclohexane	6.80	83	7771	2.438	ug/L	96
37) 1,2-Dichloropropane	6.83	63	4998	2.532	ug/L #	91
38) Bromodichloromethane	7.14	83	5637	2.350	ug/L	99
39) cis-1,3-Dichloropropene	7.64	75	7280	2.309	ug/L	95
40) 4-Methyl-2-pentanone	7.83	43	15730	5.044	ug/L	98
42) Toluene	8.00	91	20601	2.605	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	6364	2.310	ug/L	87
45) 1,1,2-Trichloroethane	8.43	97	4483	2.490	ug/L	96
46) Tetrachloroethene	8.58	164	3735	2.941	ug/L	94
48) 2-Hexanone	8.72	43	15300	6.015	ug/L	89
49) Dibromochloromethane	8.84	129	4169	2.367	ug/L	97
50) 1,2-Dibromoethane	8.96	107	4654	2.460	ug/L #	97
51) Chlorobenzene	9.47	112	11903	2.499	ug/L	98
52) Ethylbenzene	9.60	91	21201	2.440	ug/L	96
53) m,p-Xylene	9.72	106	7547	2.354	ug/L	95
54) o-xylene	10.13	106	7752	2.441	ug/L	96
55) Styrene	10.14	104	11978	2.263	ug/L	98
57) 1,1,2,2-Tetrachloroethane	10.81	83	8287	2.554	ug/L #	96
59) Bromoform	10.32	173	2783	2.428	ug/L #	94
60) 1,2,3-Trichloropropane	10.85	75	6564	2.690	ug/L	100
61) Isopropylbenzene	10.51	105	19256	2.492	ug/L	99
62) 1,3,5-Trimethylbenzene	11.11	105	16413	2.478	ug/L	98
63) 1,2,4-Trimethylbenzene	11.49	105	15924	2.408	ug/L	96
64) 1,3-Dichlorobenzene	11.77	146	8563	2.636	ug/L	98
65) 1,4-Dichlorobenzene	11.86	146	9021	2.758	ug/L	95
67) 1,2-Dichlorobenzene	12.23	146	9022	2.743	ug/L	97
68) 1,2-Dibromo-3-chloropropan	13.01	75	1824	2.615	ug/L	90
69) 1,3,5-Trichlorobenzene	13.24	180	5409	2.401	ug/L	97
70) 1,2,4-trichlorobenzene	13.85	180	4048	2.155	ug/L	99
71) Naphthalene	14.10	128	11991	1.811	ug/L	97
72) 1,2,3-Trichlorobenzene	14.35	180	3817	2.039	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 2.610 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

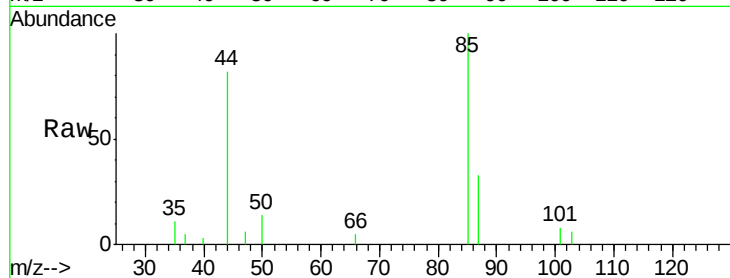
MDL02

Tot Ion: 85 Resp: 4643

Ion Ratio Lower Upper

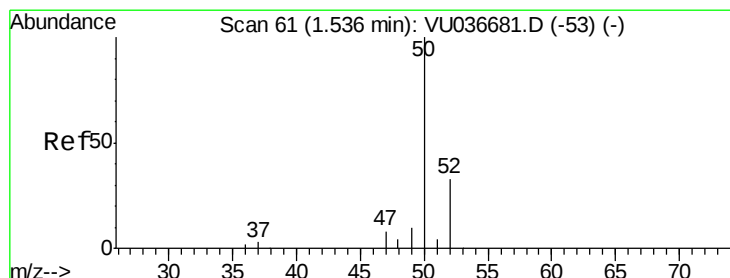
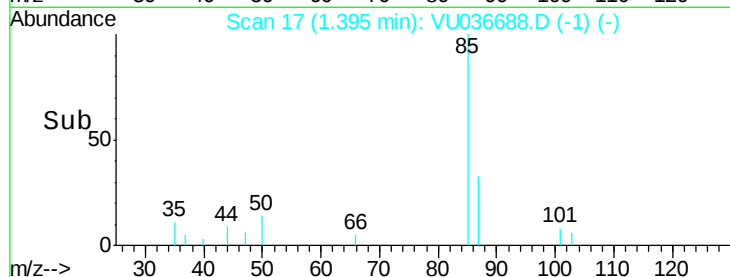
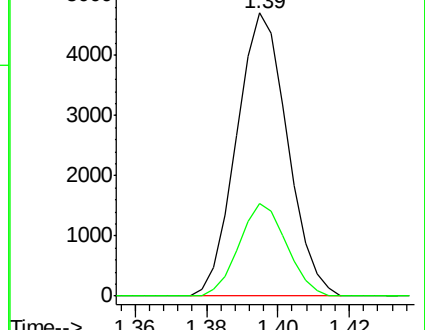
85 100

87 30.5 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VU036688.D (-10) (-)

Ion 87.00 (86.70 to 87.70): VU036688.D (-10) (-)



#3

Chloromethane

Concen: 2.566 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036688.D

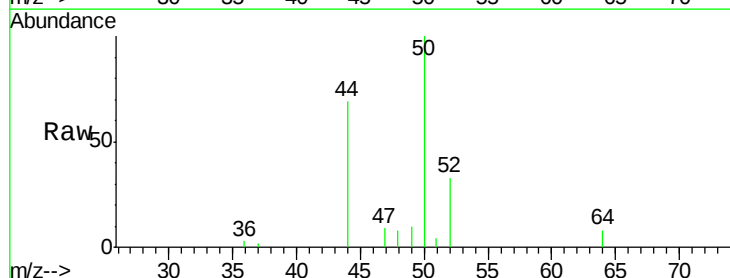
Acq: 06 Feb 2020 16:06

Tgt Ion: 50 Resp: 5409

Ion Ratio Lower Upper

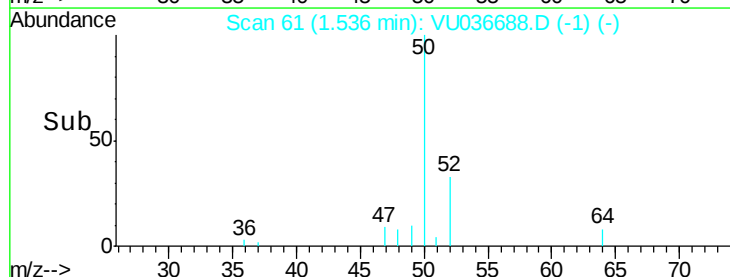
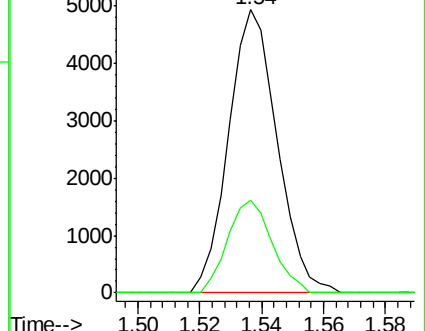
50 100

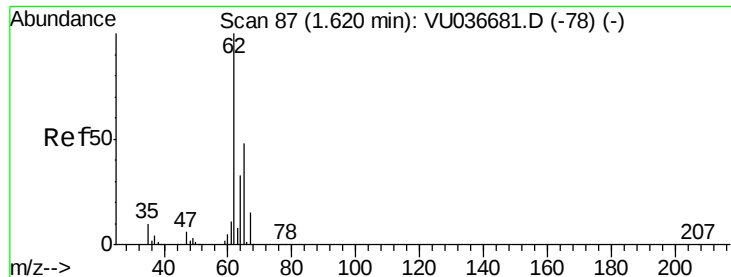
52 32.8 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VU036688.D (-53) (-)

Ion 52.00 (51.70 to 52.70): VU036688.D (-53) (-)





#5

Vinyl chloride

Concen: 2.662 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampled :

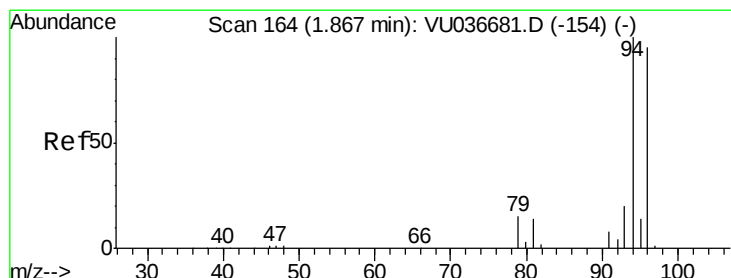
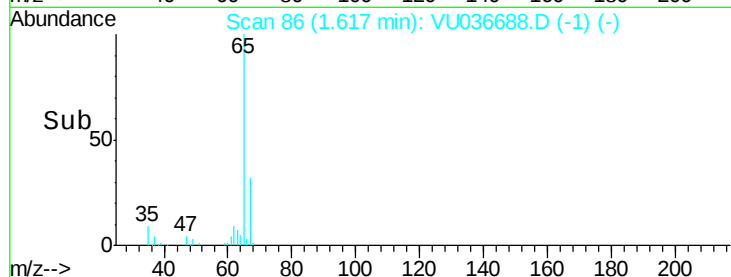
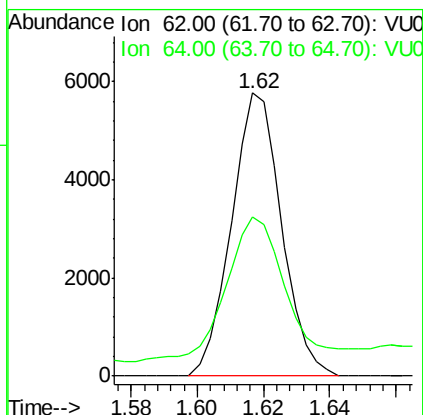
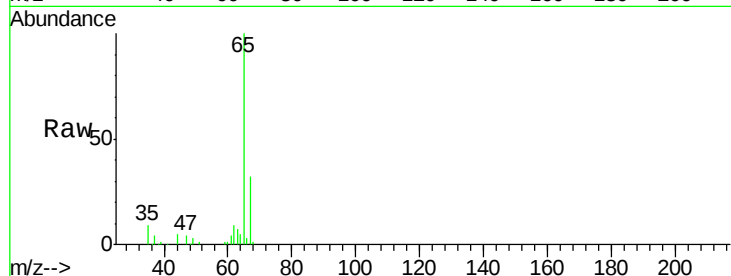
MDL02

Tot Ion: 62 Resp: 6041

Ion Ratio Lower Upper

62 100

64 56.4 23.4 43.6#



#6

Bromomethane

Concen: 2.476 ug/L

RT: 1.87 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU036688.D

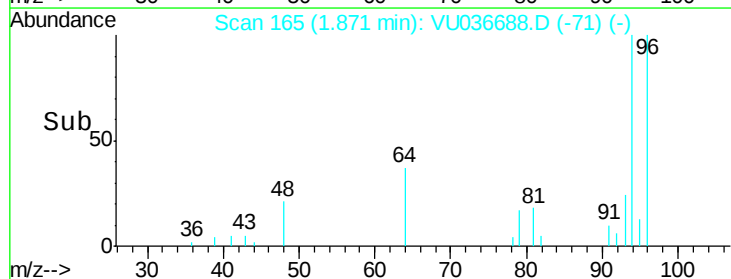
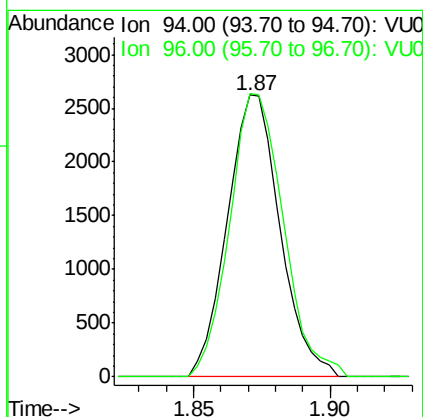
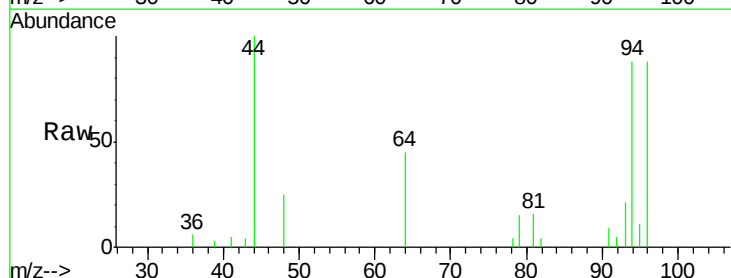
Acq: 06 Feb 2020 16:06

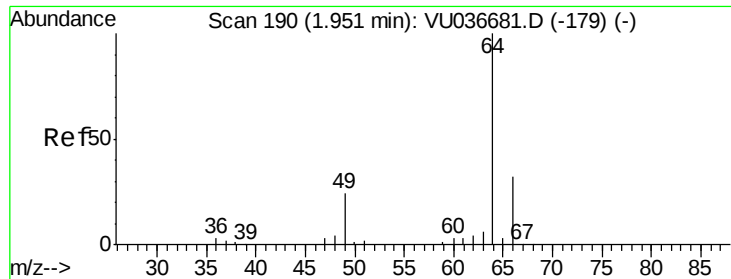
Tgt Ion: 94 Resp: 3524

Ion Ratio Lower Upper

94 100

96 100.4 66.3 123.1

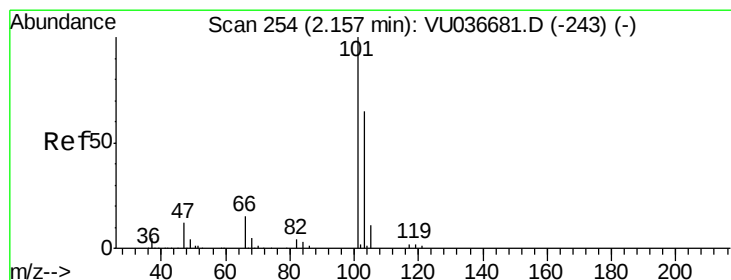
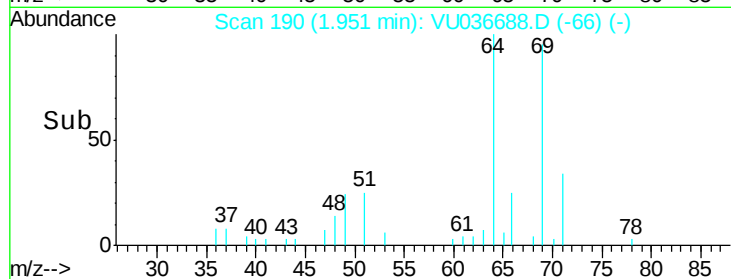
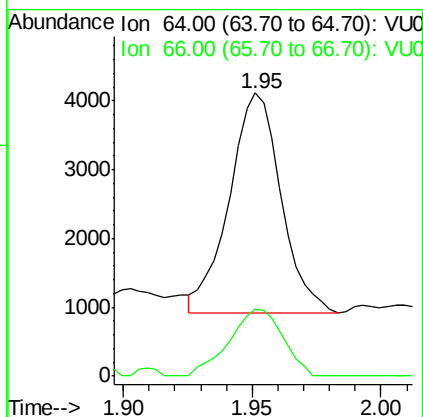
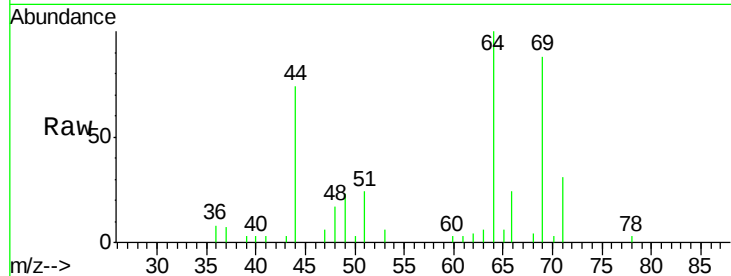




#8
Chloroethane
Concen: 3.122 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

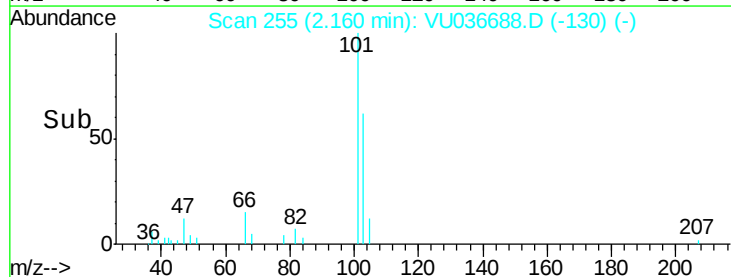
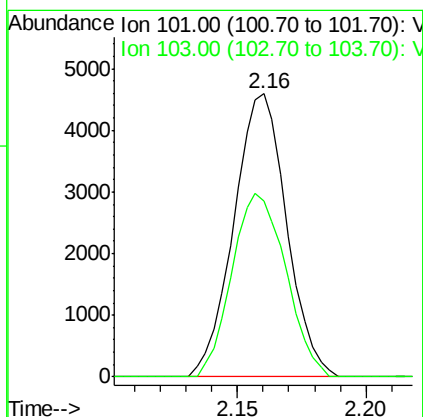
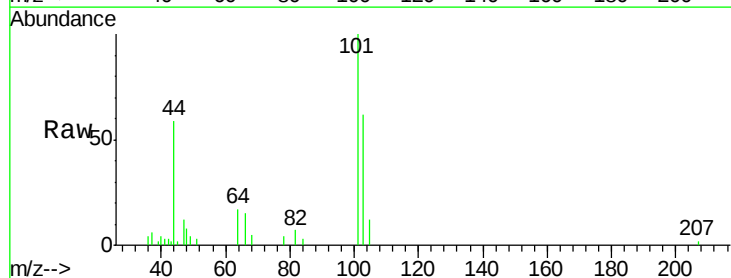
Instrument :
MSVOA_U
ClientSampleId :
MDL02

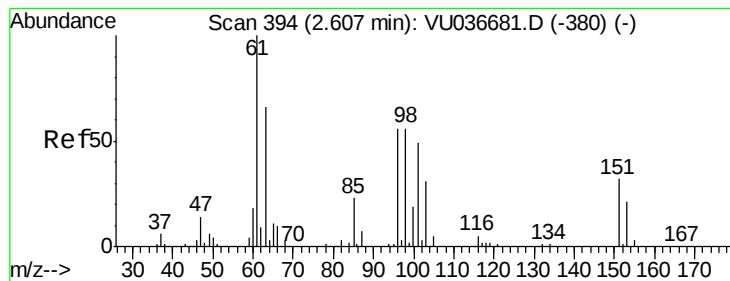
Tot Ion: 64 Resp: 4498
Ion Ratio Lower Upper
64 100
66 23.6 22.1 41.1



#9
Trichlorofluoromethane
Concen: 2.425 ug/L
RT: 2.16 min Scan# 255
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

Tgt Ion:101 Resp: 6541
Ion Ratio Lower Upper
101 100
103 66.1 51.6 77.4





#10

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

Concen: 3.120 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampled :

MDL02

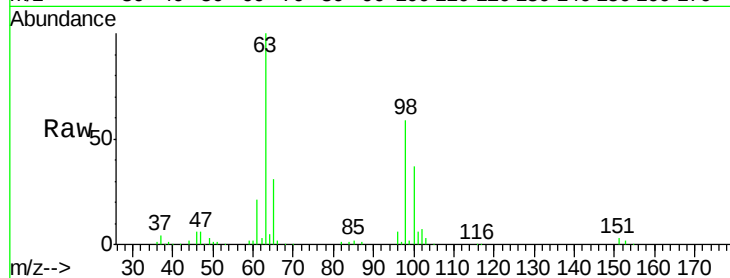
Tot Ion:101 Resp: 5041

Ion Ratio Lower Upper

101 100

85 38.3 36.5 54.7

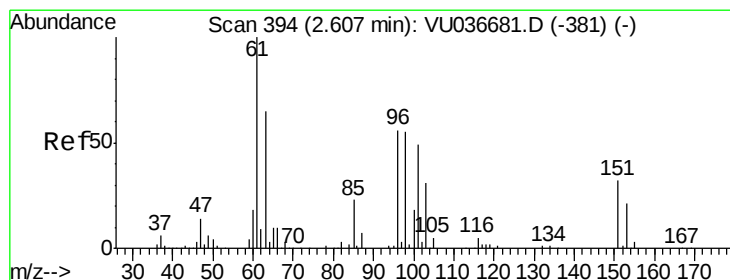
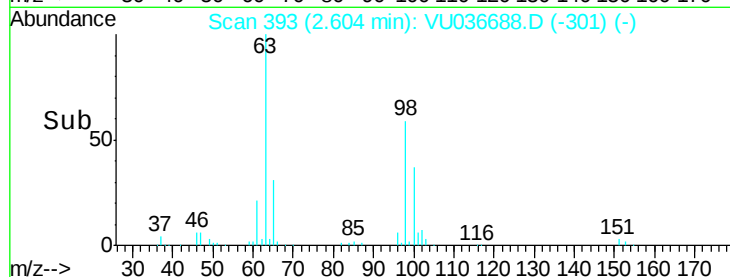
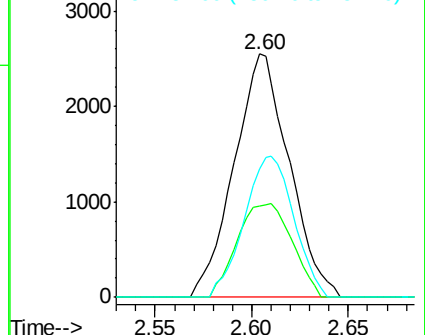
151 52.2 52.6 78.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.083 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

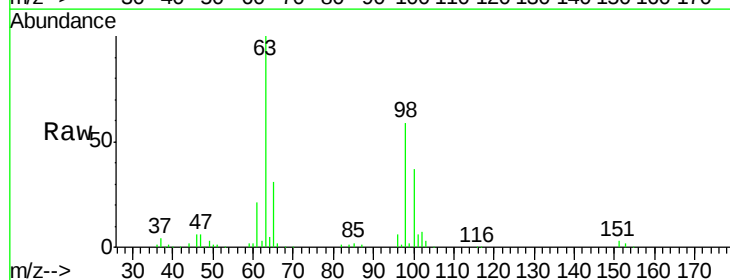
Tgt Ion: 96 Resp: 4849

Ion Ratio Lower Upper

96 100

61 348.9 124.4 231.0#

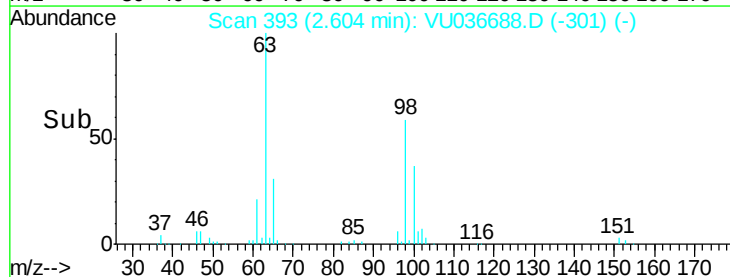
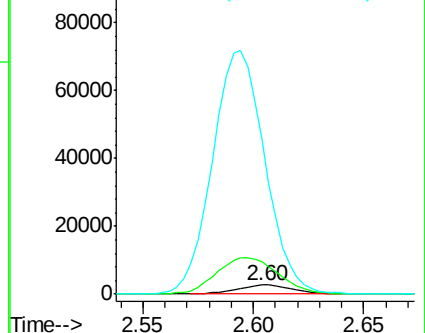
63 1661.7 83.4 155.0#

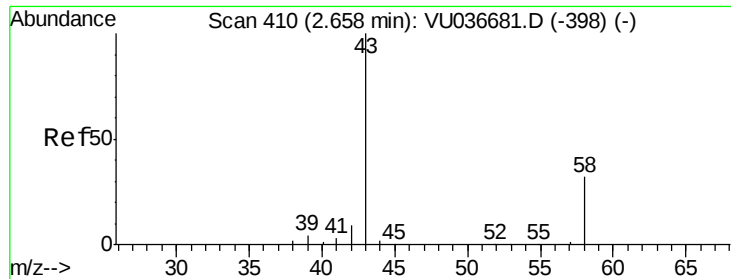


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.355 ug/L

RT: 2.66 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

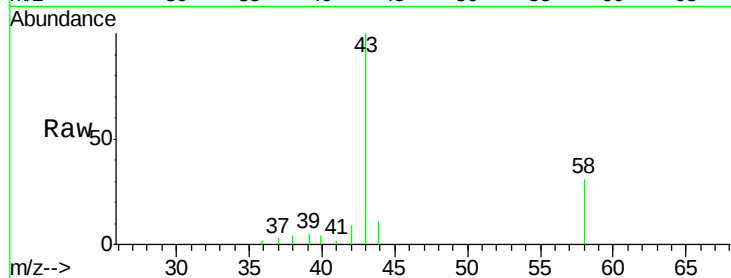
MDL02

Tot Ion: 43 Resp: 9890

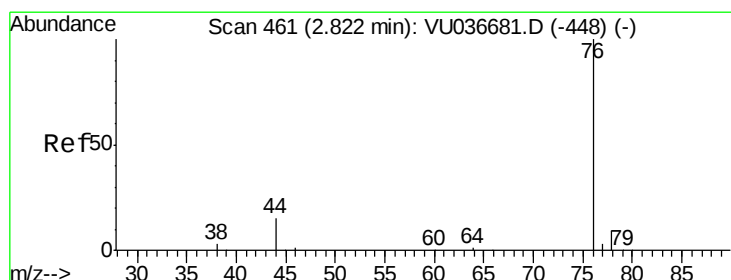
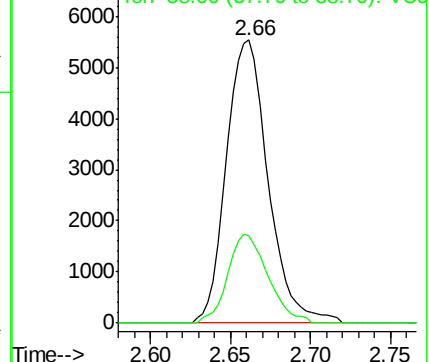
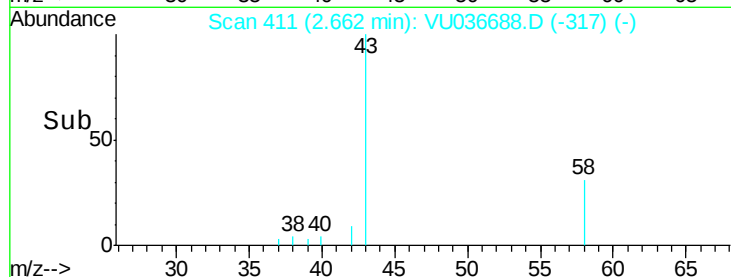
Ion Ratio Lower Upper

43 100

58 30.2 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU036688.D (-317) (-)



#14

Carbon disulfide

Concen: 2.592 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036688.D

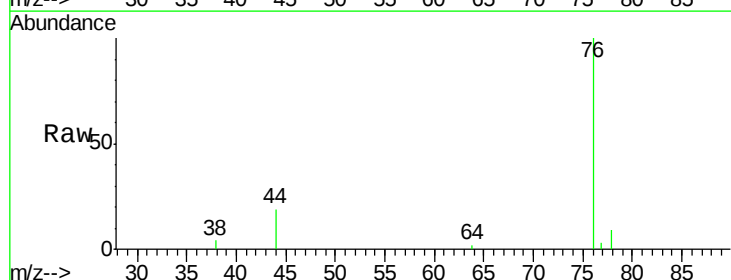
Acq: 06 Feb 2020 16:06

Tgt Ion: 76 Resp: 12180

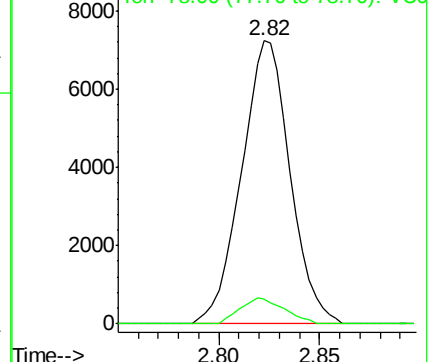
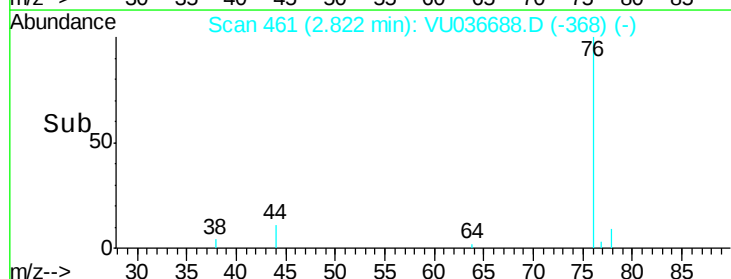
Ion Ratio Lower Upper

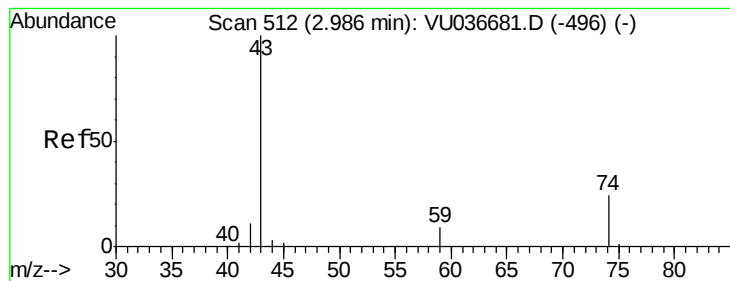
76 100

78 8.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU036688.D (-368) (-)





#15

Methvl Acetate

Concen: 2.773 ug/L

RT: 2.99 min Scan# 512

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

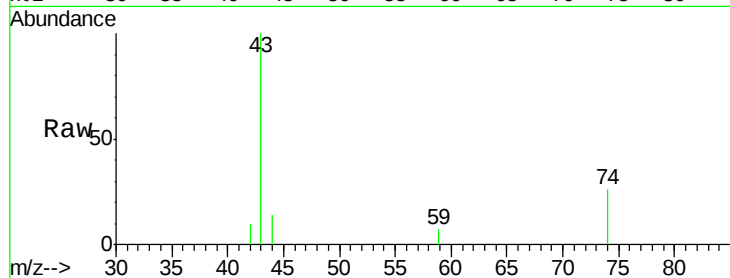
MDL02

Tot Ion: 43 Resp: 6238

Ion Ratio Lower Upper

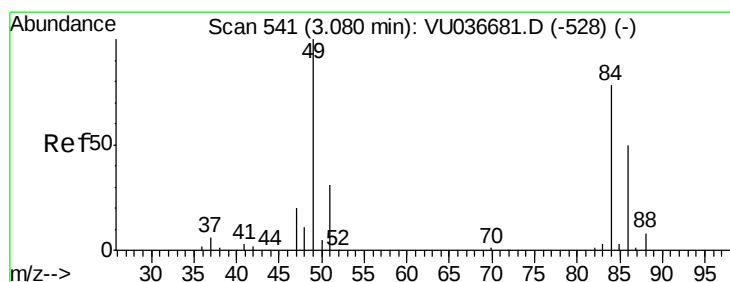
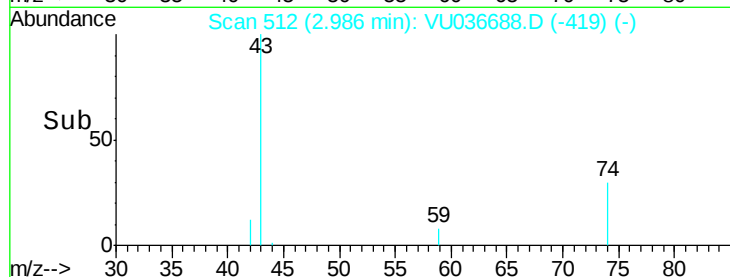
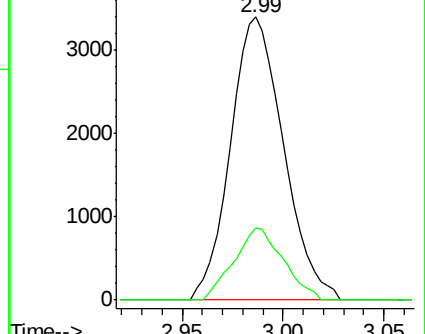
43 100

74 23.7 18.7 28.1



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#16

Methylene chloride

Concen: 2.667 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

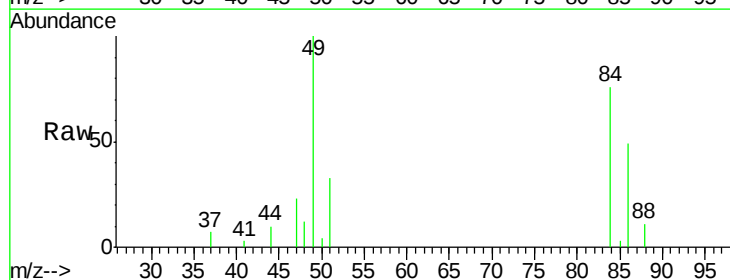
Tgt Ion: 84 Resp: 5178

Ion Ratio Lower Upper

84 100

86 63.6 44.4 82.5

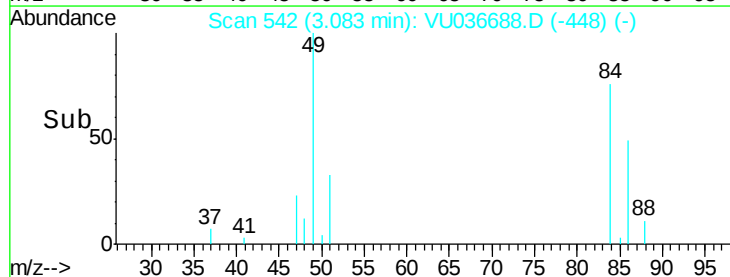
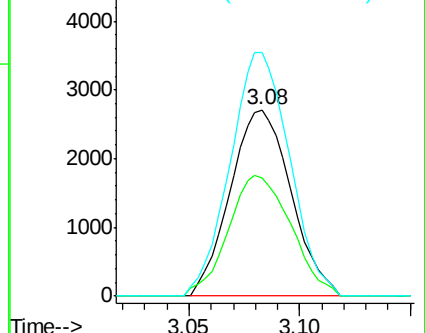
49 130.9 89.2 165.8

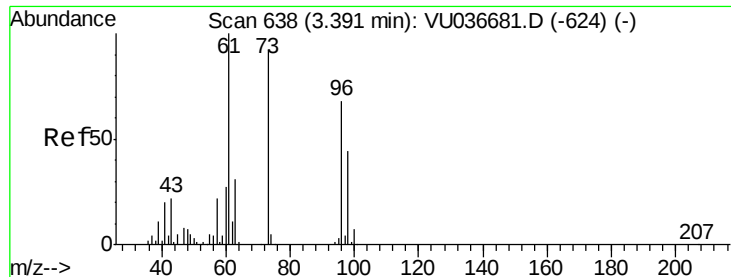


Abundance Ion 84.00 (83.70 to 84.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

Ion 49.00 (48.70 to 49.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 2.671 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampled :

MDL02

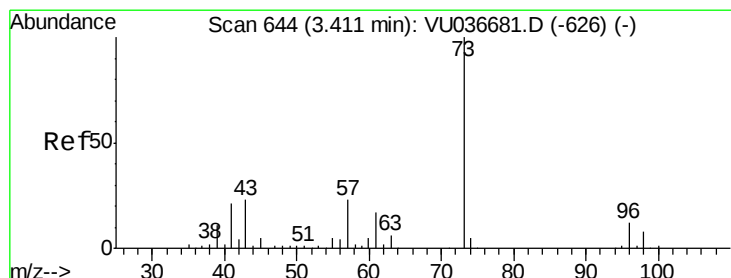
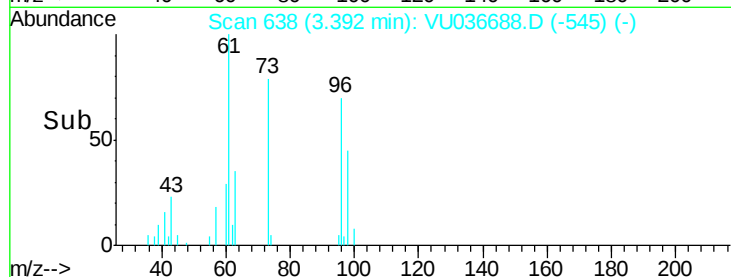
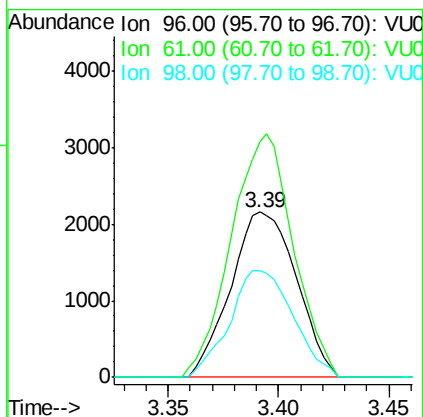
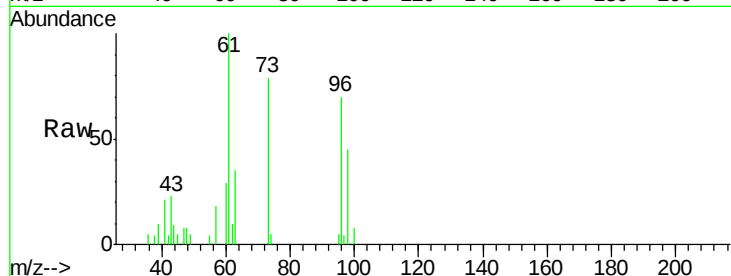
Tot Ion: 96 Resp: 4470

Ion Ratio Lower Upper

96 100

61 142.6 103.4 192.0

98 64.4 45.4 84.2



#18

Methyl tert-butyl Ether

Concen: 2.405 ug/L

RT: 3.41 min Scan# 644

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

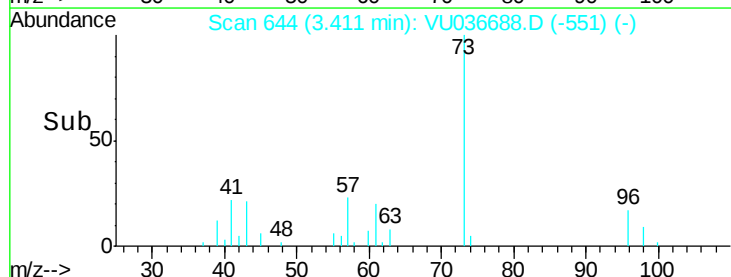
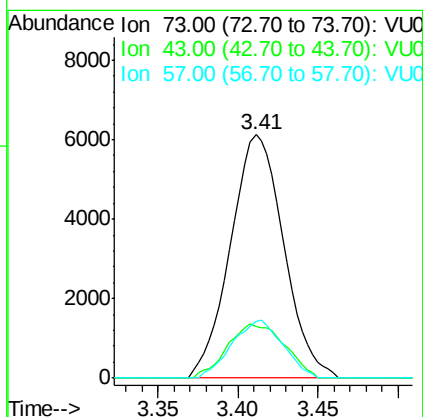
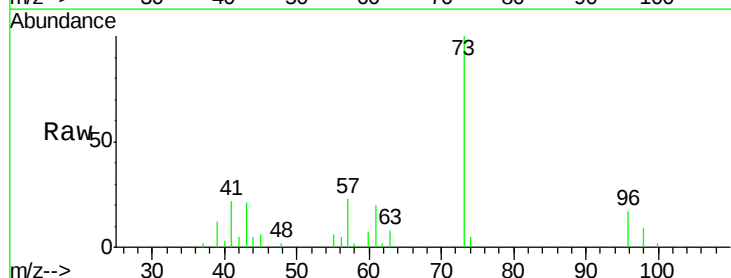
Tgt Ion: 73 Resp: 13967

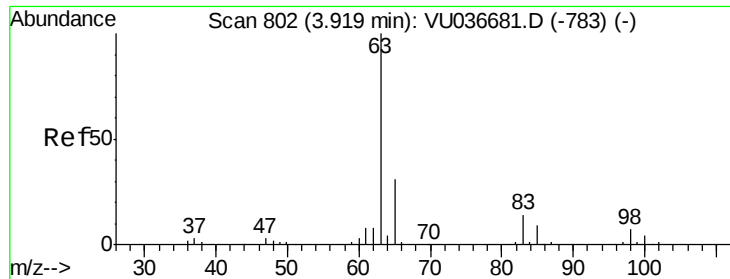
Ion Ratio Lower Upper

73 100

43 23.9 18.6 28.0

57 22.6 18.3 27.5

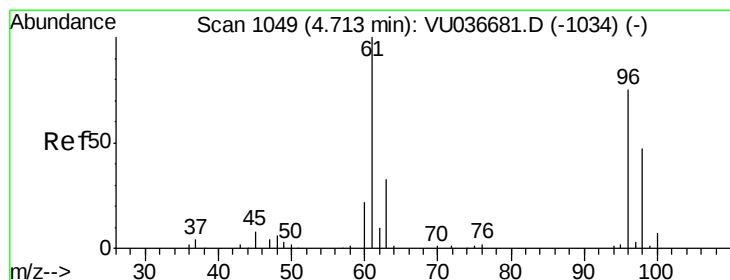
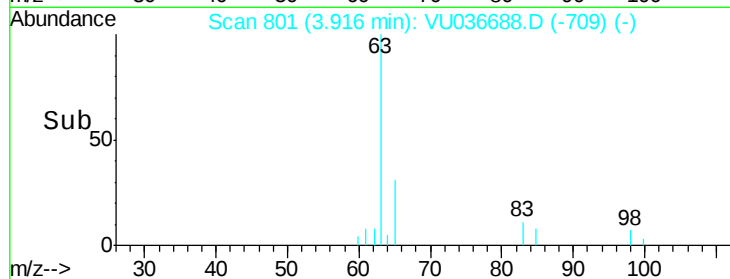
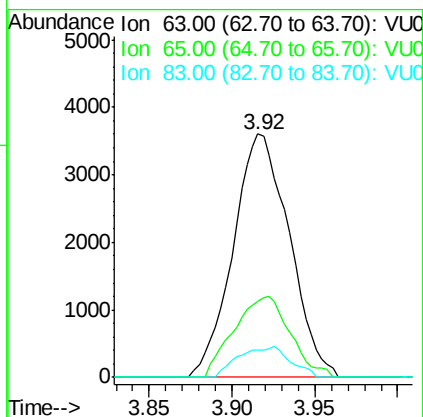
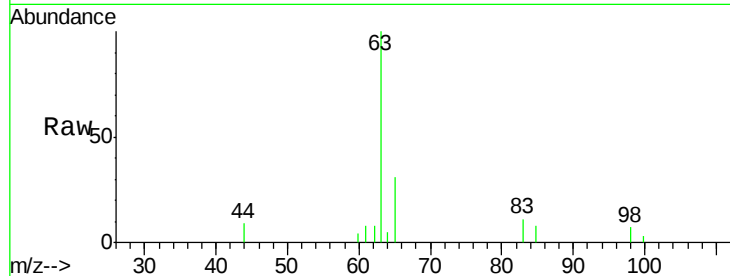




#19
 1,1-Dichloroethane
 Concen: 2.540 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

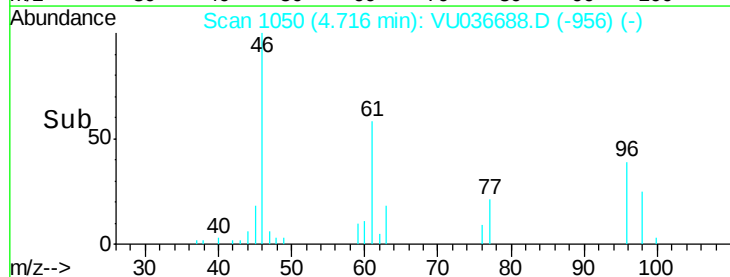
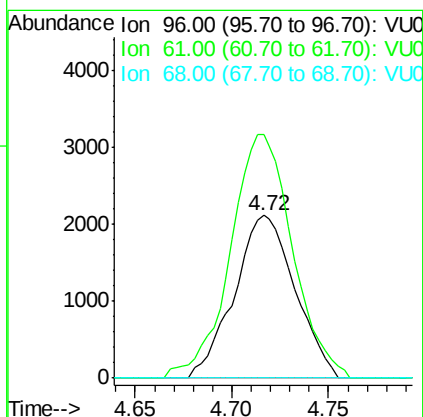
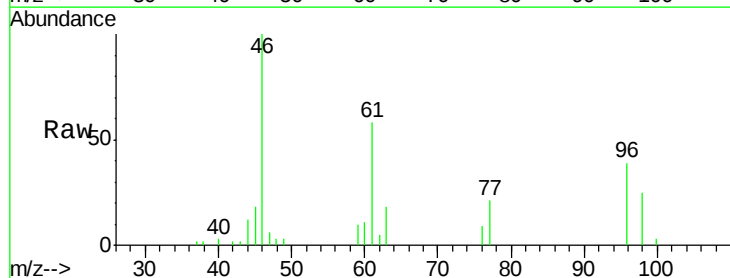
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

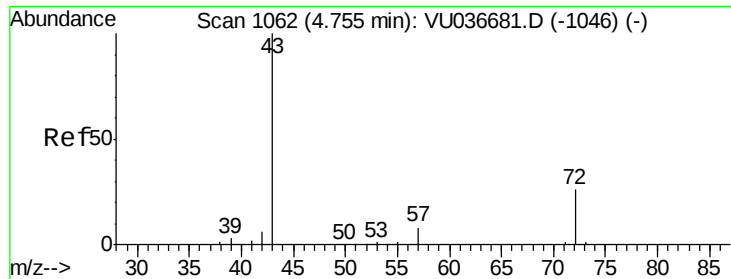
Tot Ion: 63 Resp: 8469
 Ion Ratio Lower Upper
 63 100
 65 31.0 22.0 40.8
 83 11.4 10.1 18.7



#20
 cis-1,2-Dichloroethene
 Concen: 2.428 ug/L
 RT: 4.72 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion: 96 Resp: 4630
 Ion Ratio Lower Upper
 96 100
 61 149.5 93.3 173.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 5.383 ug/L

RT: 4.76 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

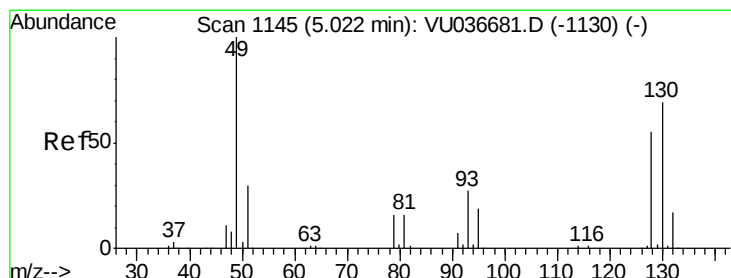
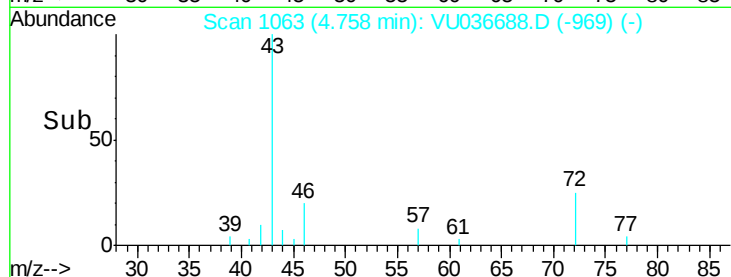
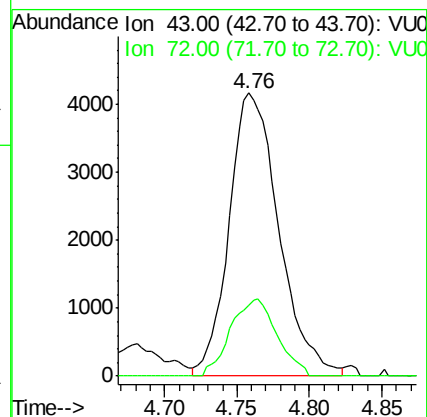
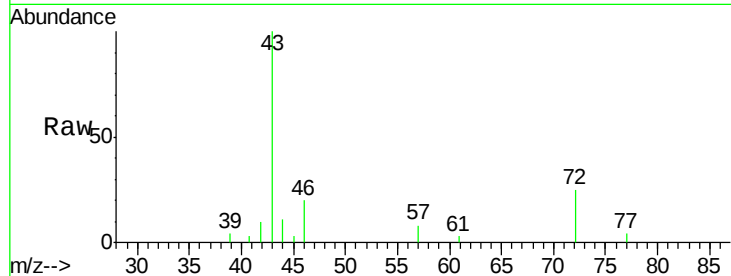
MDL02

Tot Ion: 43 Resp: 9942

Ion Ratio Lower Upper

43 100

72 25.5 13.6 40.7



#23

Bromochloromethane

Concen: 2.481 ug/L

RT: 5.03 min Scan# 1147

Delta R.T. 0.01 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Tgt Ion: 128 Resp: 2217

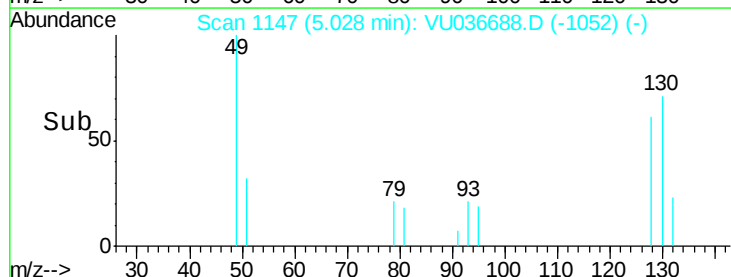
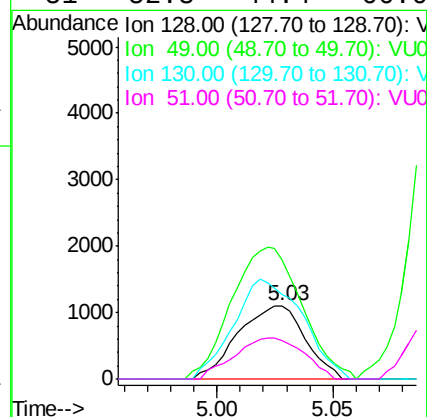
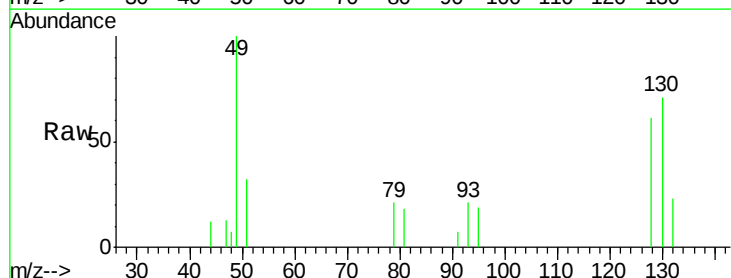
Ion Ratio Lower Upper

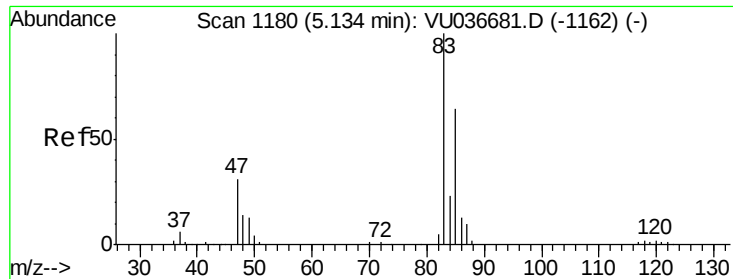
128 100

49 163.2 127.3 236.5

130 116.2 88.5 164.3

51 52.8 44.4 66.6

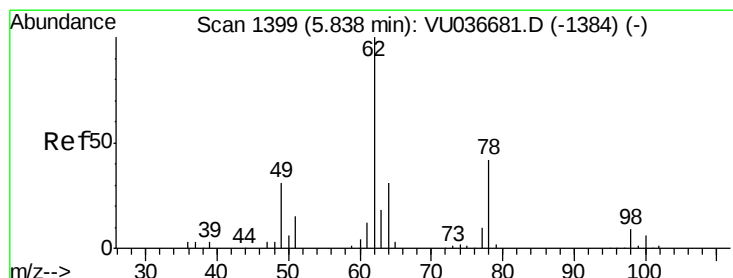
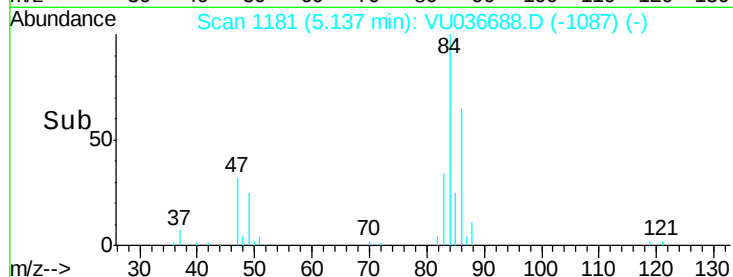
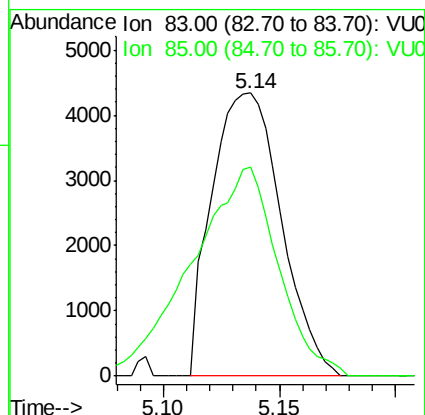
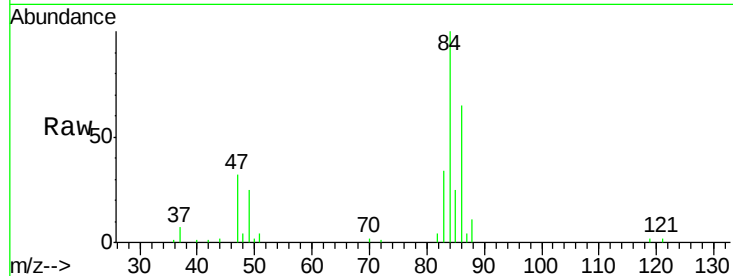




#25
Chloroform
Concen: 2.788 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

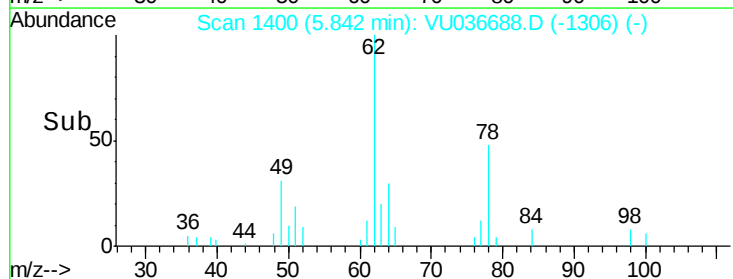
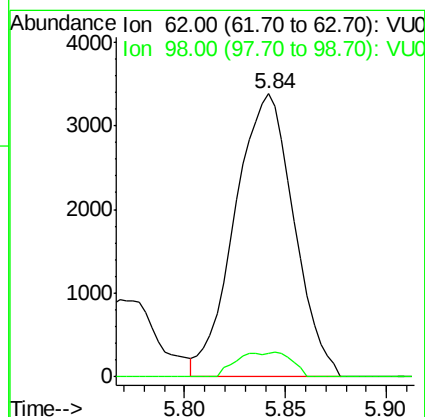
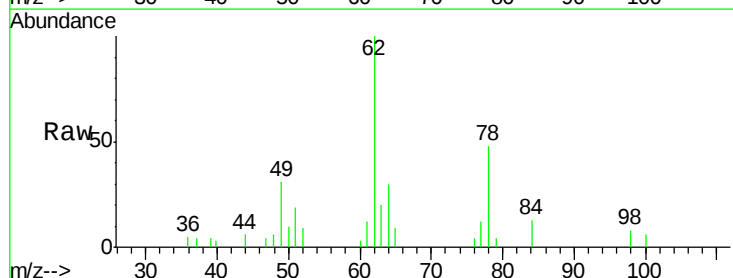
Instrument :
MSVOA_U
ClientSampleId :
MDL02

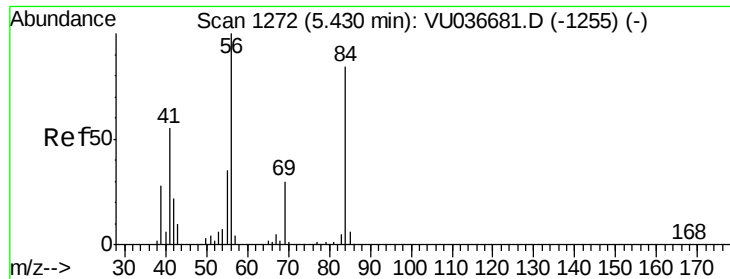
Tot Ion: 83 Resp: 9040
Ion Ratio Lower Upper
83 100
85 73.8 44.6 82.8



#27
1,2-Dichloroethane
Concen: 2.535 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

Tgt Ion: 62 Resp: 6912
Ion Ratio Lower Upper
62 100
98 8.3 7.0 10.4

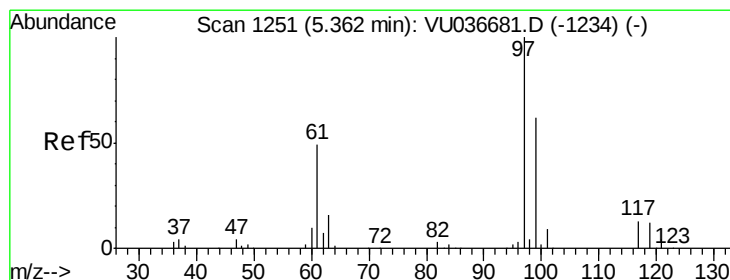
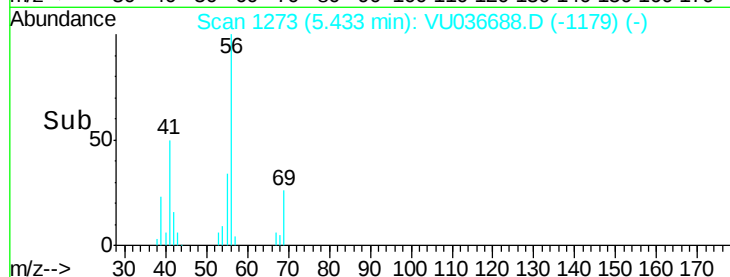
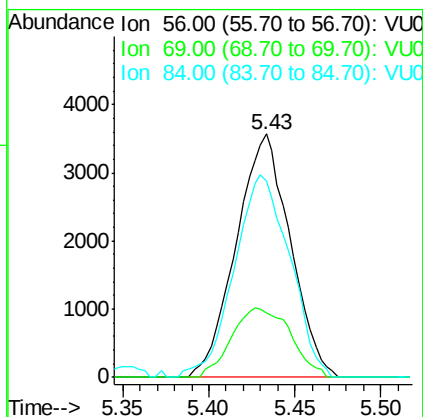
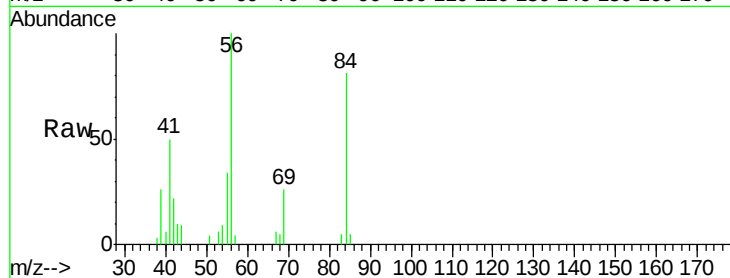




#29
Cyclohexane
Concen: 2.503 ug/L
RT: 5.43 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

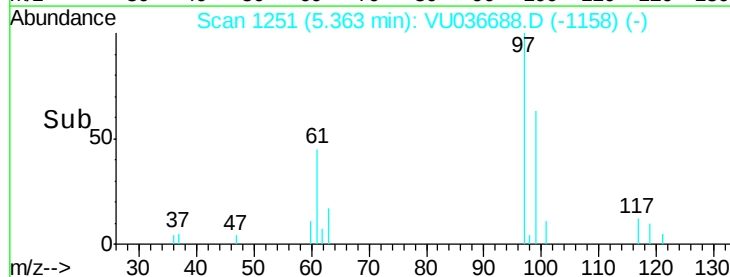
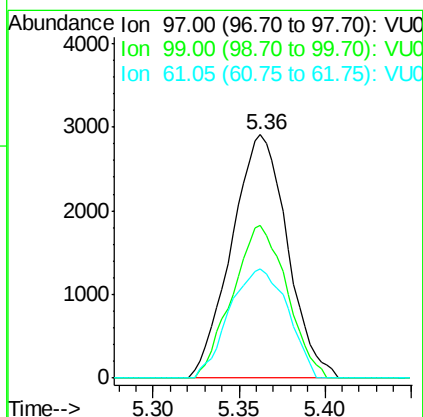
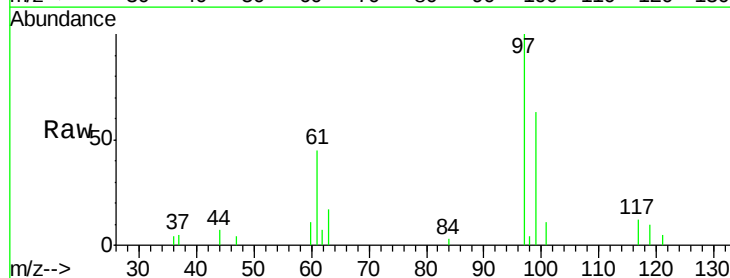
Instrument :
MSVOA_U
ClientSampleId :
MDL02

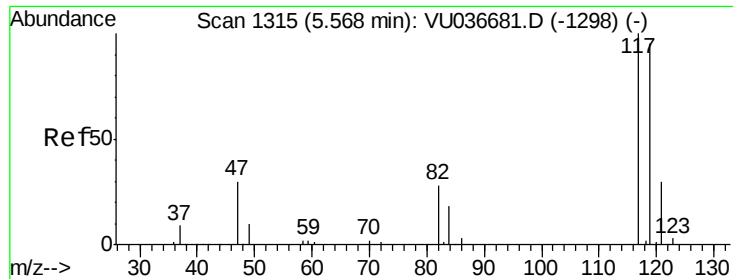
Tot Ion: 56 Resp: 7779
Ion Ratio Lower Upper
56 100
69 30.9 25.0 37.4
84 85.4 68.2 102.2



#30
1,1,1-Trichloroethane
Concen: 2.557 ug/L
RT: 5.36 min Scan# 1251
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

Tgt Ion: 97 Resp: 6572
Ion Ratio Lower Upper
97 100
99 61.1 50.9 76.3
61 46.9 40.2 60.2

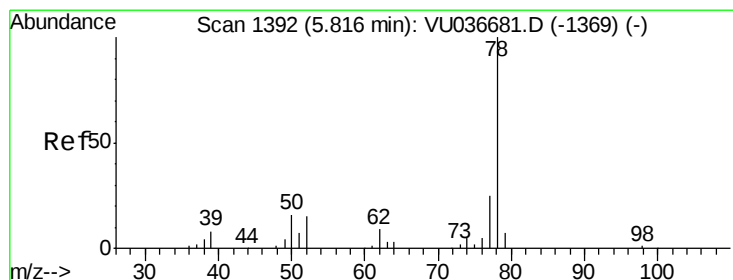
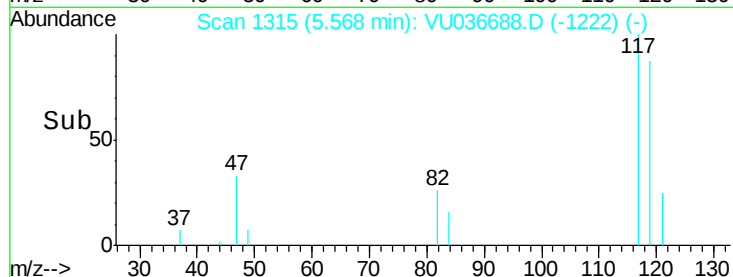
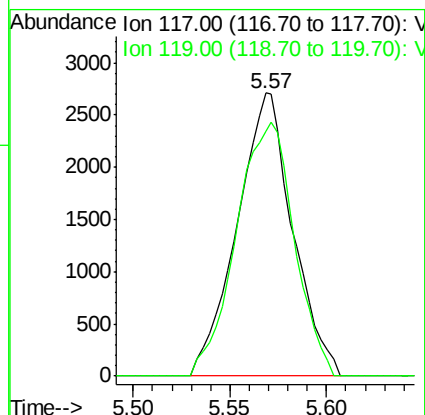
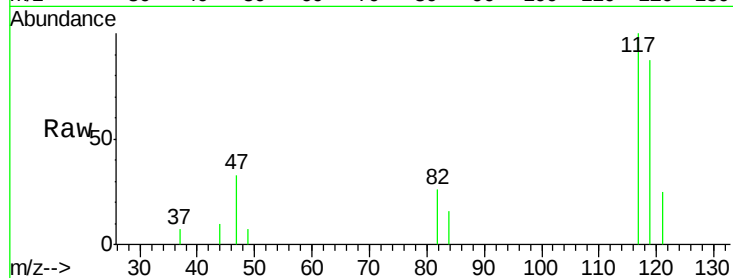




#31
Carbon tetrachloride
Concen: 2.607 ug/L
RT: 5.57 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

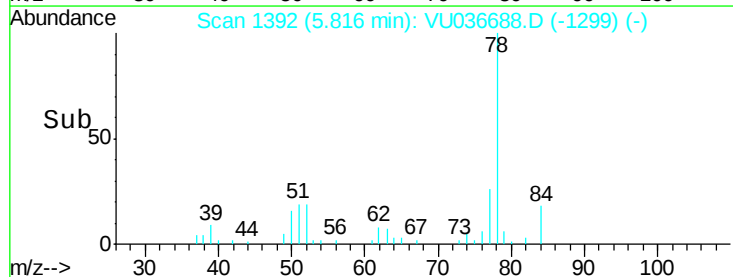
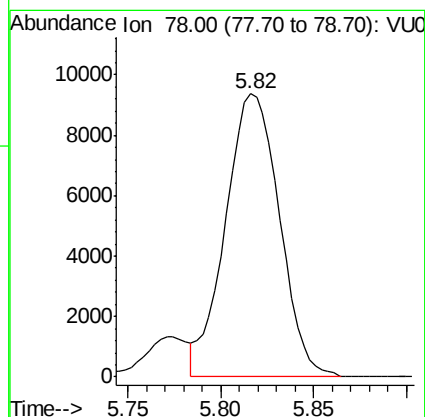
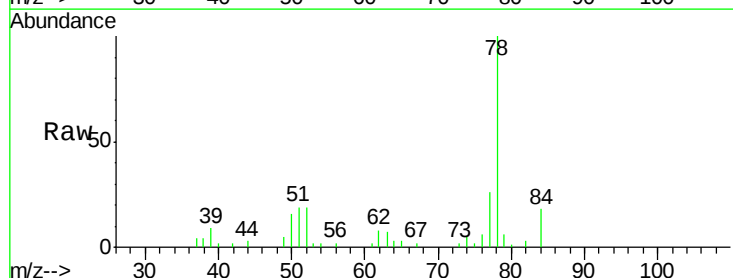
Instrument :
MSVOA_U
ClientSampleId :
MDL02

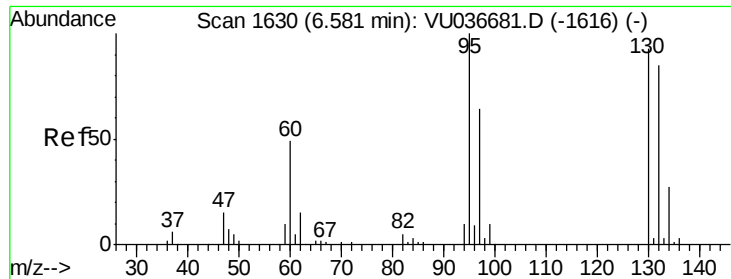
Tot Ion:117 Resp: 5427
Ion Ratio Lower Upper
117 100
119 93.1 76.2 114.4



#33
Benzene
Concen: 2.590 ug/L
RT: 5.82 min Scan# 1392
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

Tgt Ion: 78 Resp: 18956





#34

Trichloroethene

Concen: 2.847 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

MDL02

Tot Ion: 95 Resp: 5152

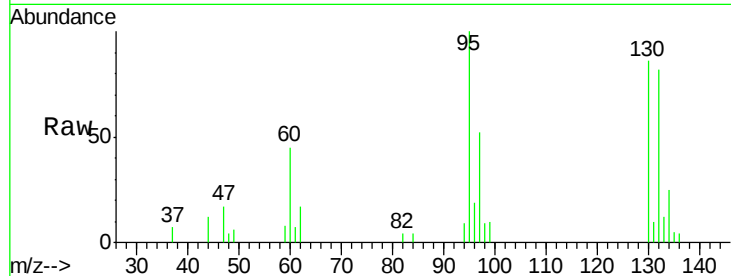
Ion Ratio Lower Upper

95 100

97 52.4 44.5 82.7

132 82.2 59.6 110.8

130 85.8 65.0 120.8

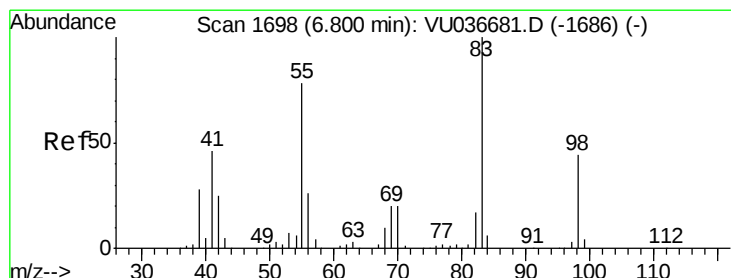
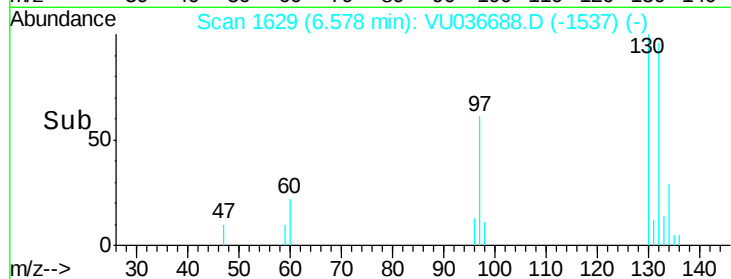
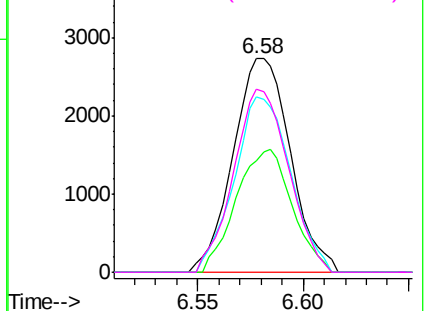


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 2.438 ug/L

RT: 6.80 min Scan# 1697

Delta R.T. -0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

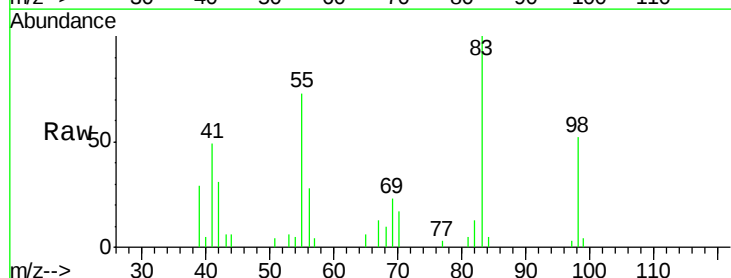
Tgt Ion: 83 Resp: 7771

Ion Ratio Lower Upper

83 100

55 77.2 61.2 91.8

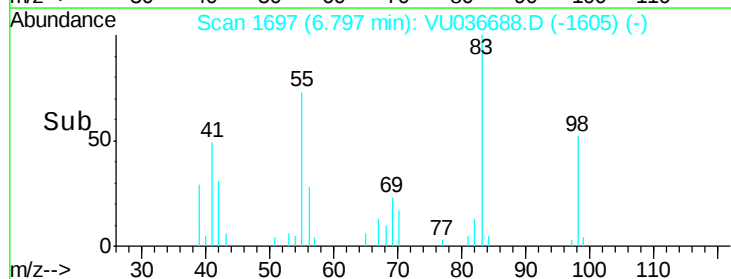
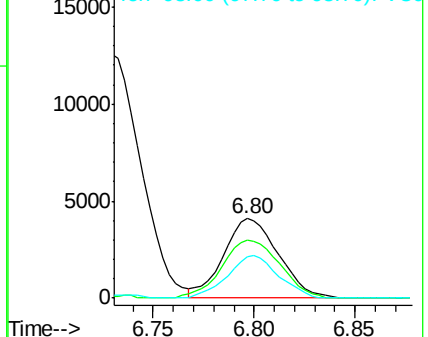
98 50.0 35.4 53.0

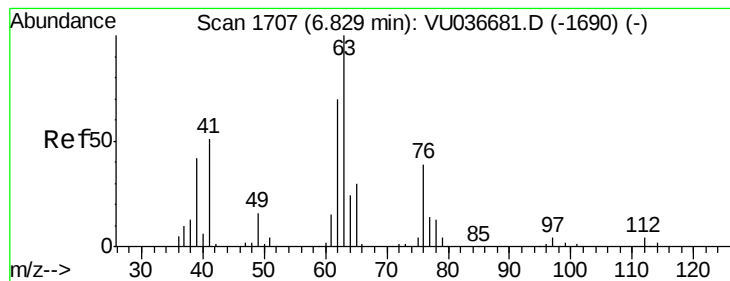


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 2.532 ug/L

RT: 6.83 min Scan# 1707

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

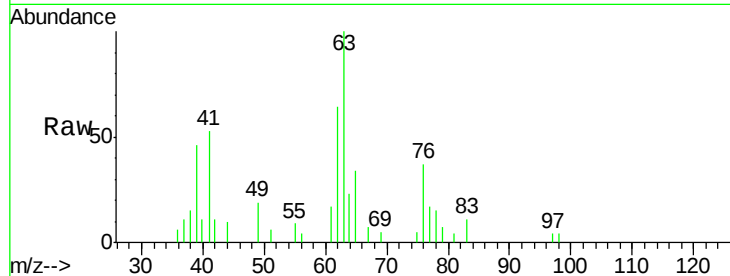
MDL02

Tot Ion: 63 Resp: 4998

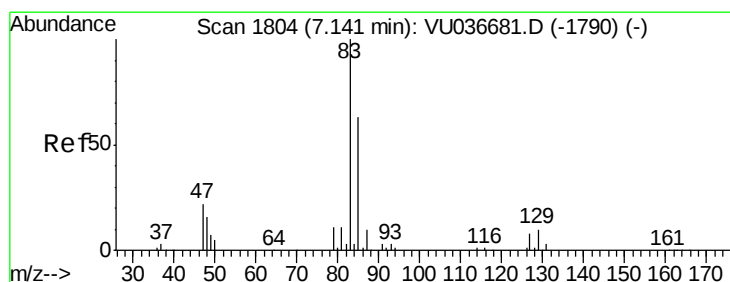
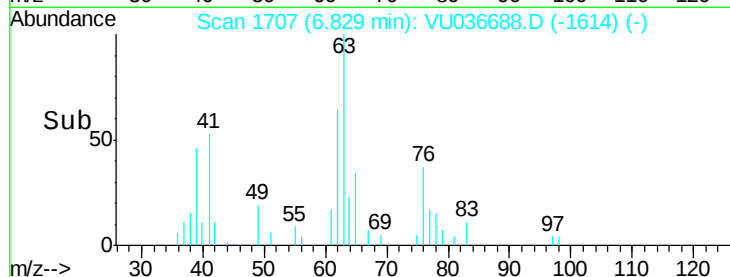
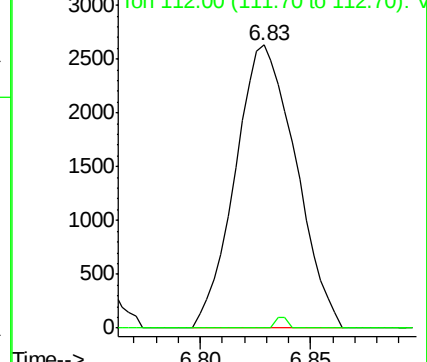
Ion Ratio Lower Upper

63 100

112 0.8 3.1 4.7#



Abundance Ion 63.00 (62.70 to 63.70): VU036688.D (-1614) (-)



#38

Bromodichloromethane

Concen: 2.350 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

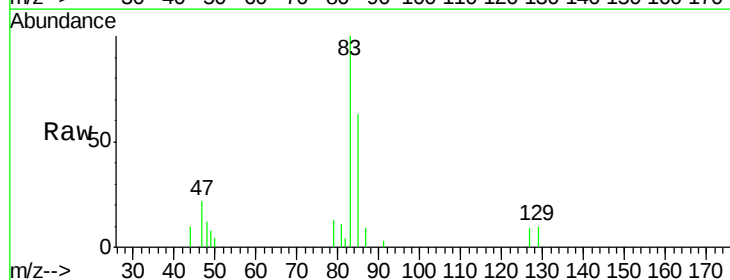
Tgt Ion: 83 Resp: 5637

Ion Ratio Lower Upper

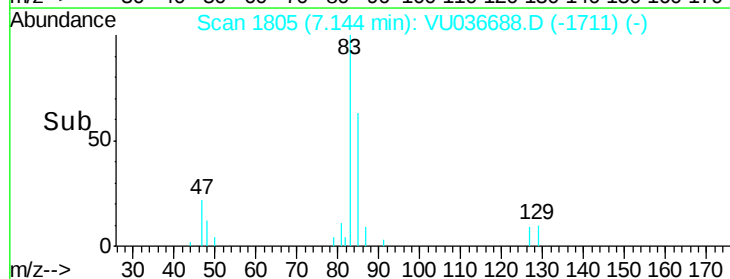
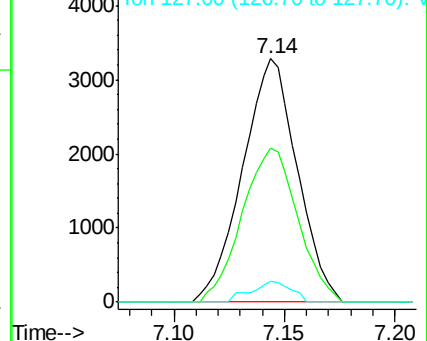
83 100

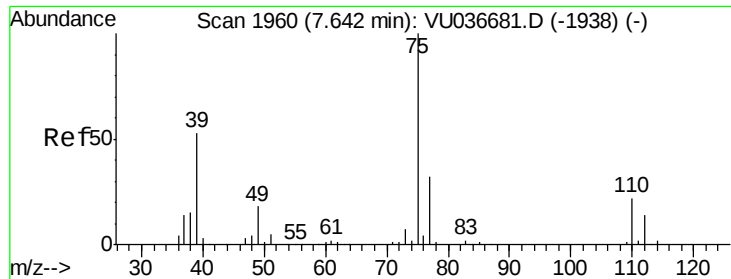
85 63.5 43.9 81.5

127 8.6 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VU036688.D (-1711) (-)

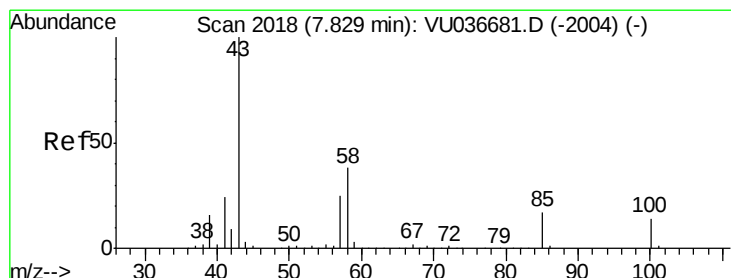
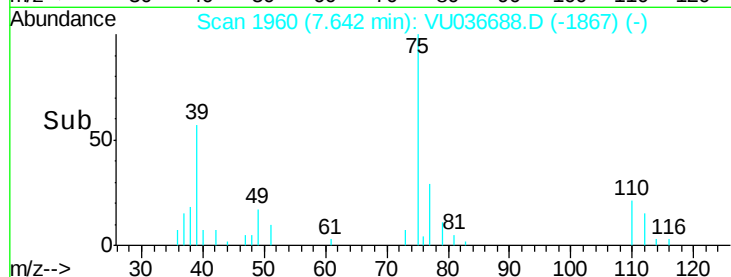
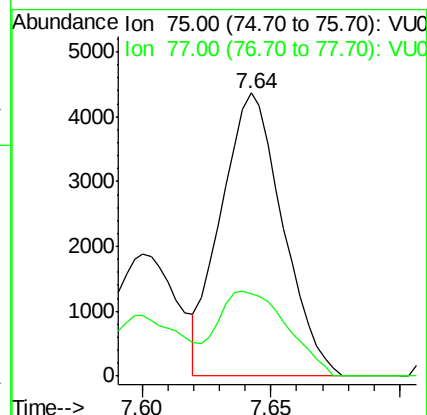
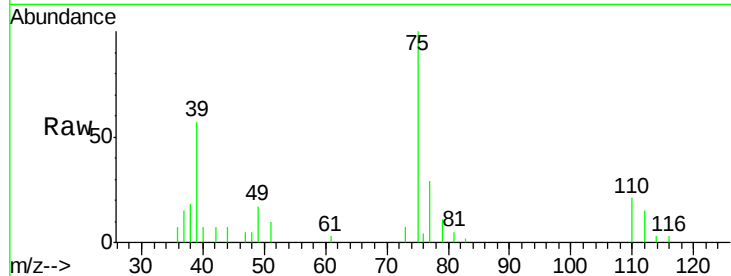




#39
 cis-1,3-Dichloropropene
 Concen: 2.309 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

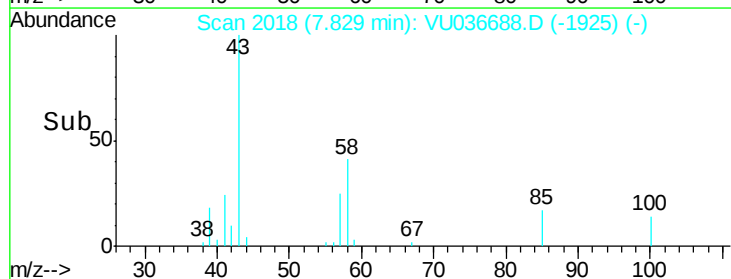
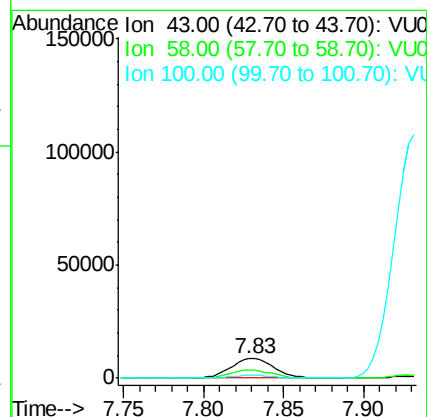
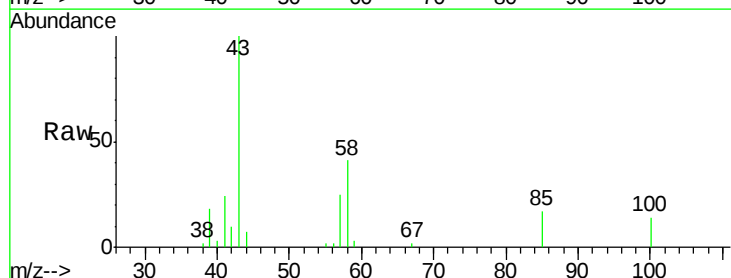
Instrument :
 MSVOA_U
 ClientSampleID :
 MDL02

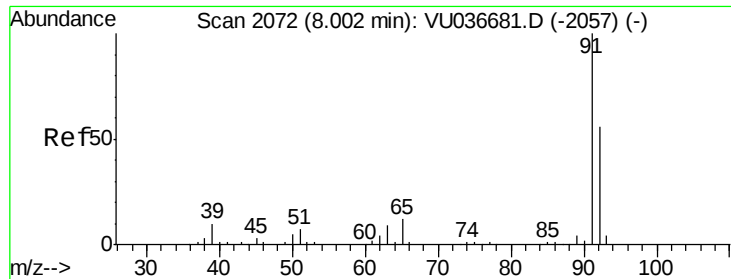
Tot Ion: 75 Resp: 7280
 Ion Ratio Lower Upper
 75 100
 77 29.2 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 5.044 ug/L
 RT: 7.83 min Scan# 2018
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion: 43 Resp: 15730
 Ion Ratio Lower Upper
 43 100
 58 39.9 31.0 46.6
 100 13.9 11.4 17.2





#42

Toluene

Concen: 2.605 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

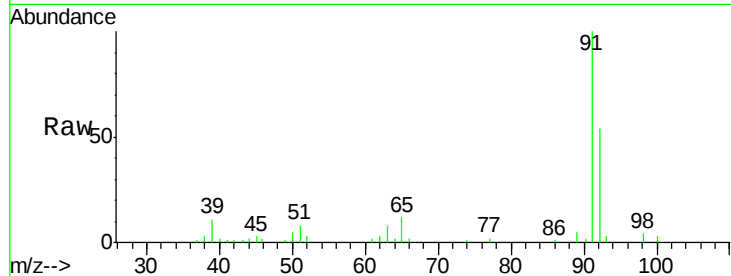
MDL02

Tot Ion: 91 Resp: 20601

Ion Ratio Lower Upper

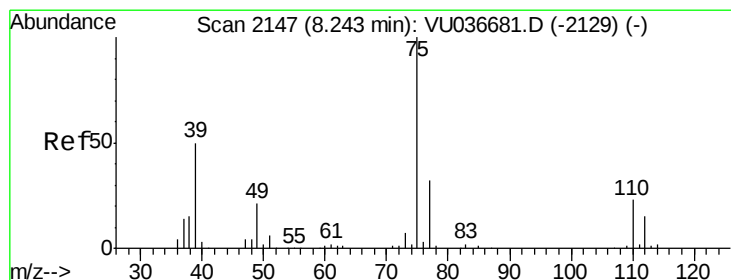
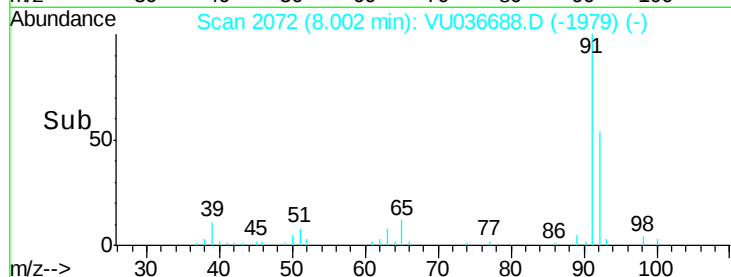
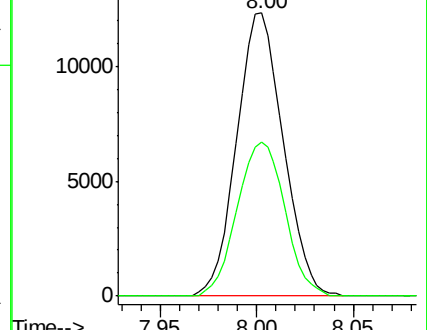
91 100

92 54.4 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VU036688.D (-1979) (-)

Ion 92.00 (91.70 to 92.70): VU036688.D (-1979) (-)



#44

trans-1,3-Dichloropropene

Concen: 2.310 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. 0.00 min

Lab File: VU036688.D

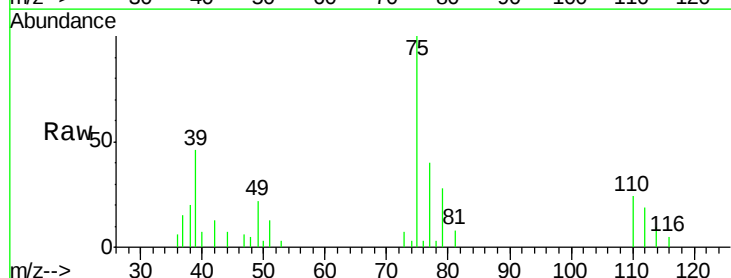
Acq: 06 Feb 2020 16:06

Tgt Ion: 75 Resp: 6364

Ion Ratio Lower Upper

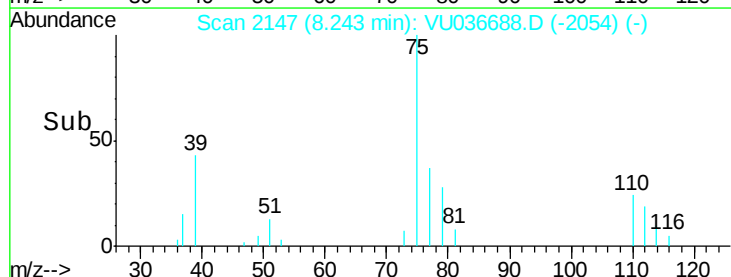
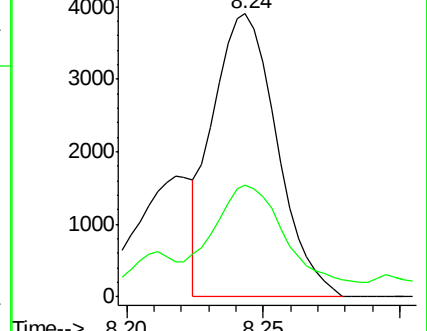
75 100

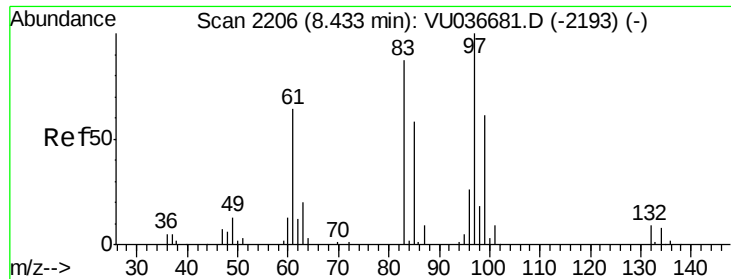
77 39.6 22.6 42.0



Abundance Ion 75.00 (74.70 to 75.70): VU036688.D (-2054) (-)

Ion 77.00 (76.70 to 77.70): VU036688.D (-2054) (-)

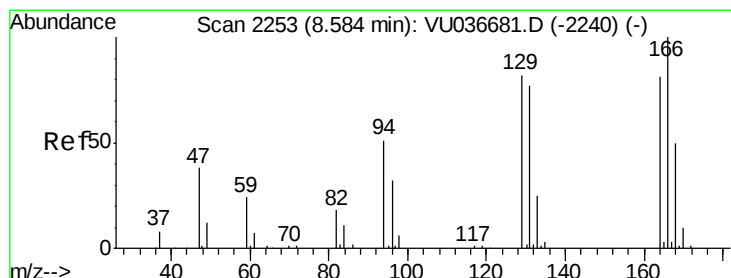
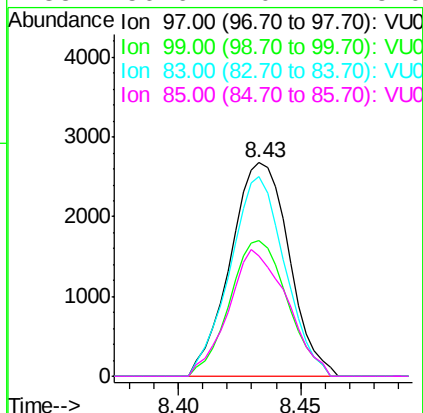
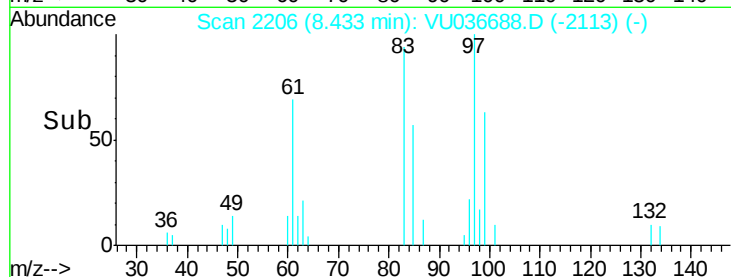
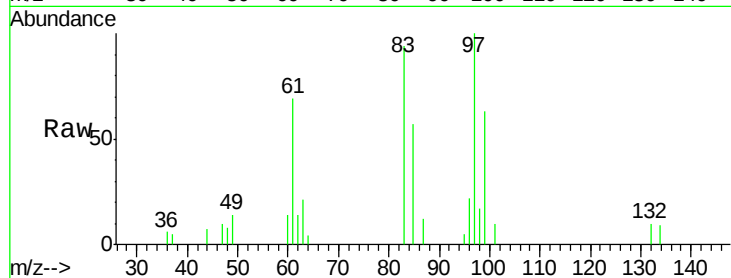




#45
 1,1,2-Trichloroethane
 Concen: 2.490 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

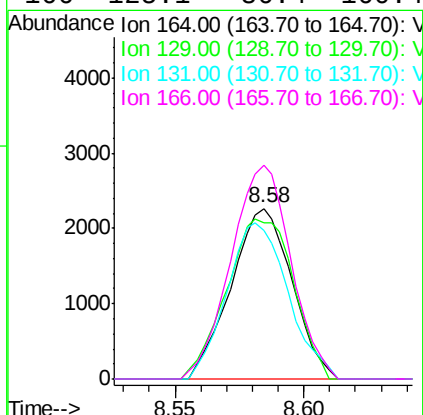
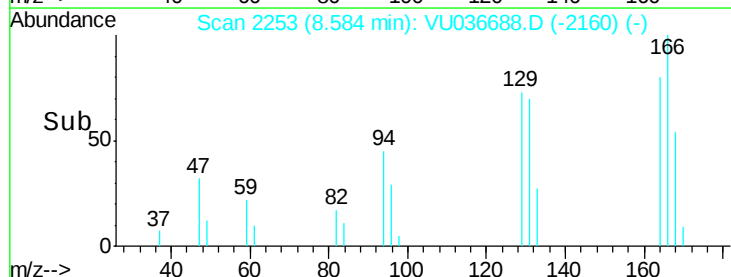
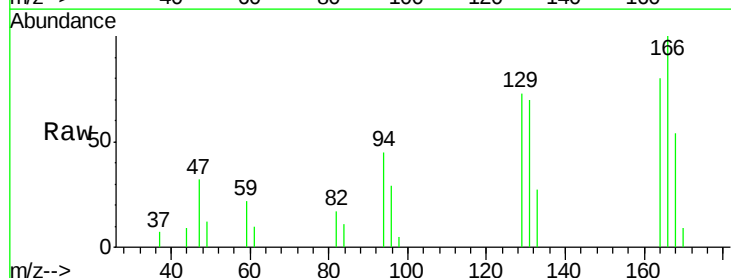
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

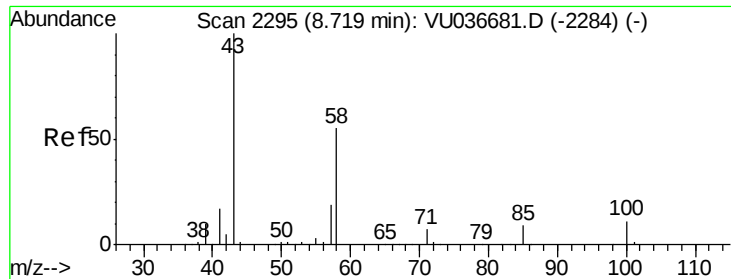
Tot Ion:	97.00	Resp:	4483
Ion	Ratio	Lower	Upper
97	100		
99	63.5	42.6	79.0
83	93.8	61.1	113.5
85	56.6	40.4	75.0



#46
 Tetrachloroethene
 Concen: 2.941 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion:	164	Resp:	3735
Ion	Ratio	Lower	Upper
164	100		
129	91.5	71.0	131.9
131	87.0	66.6	123.6
166	125.1	86.4	160.4

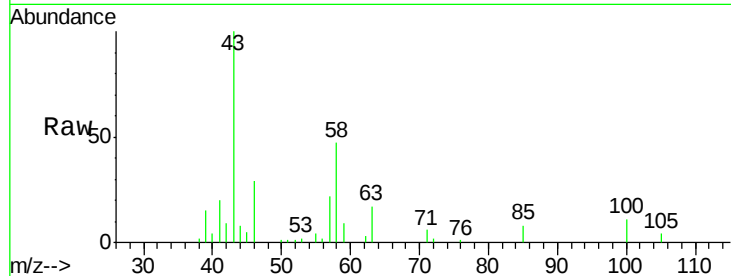




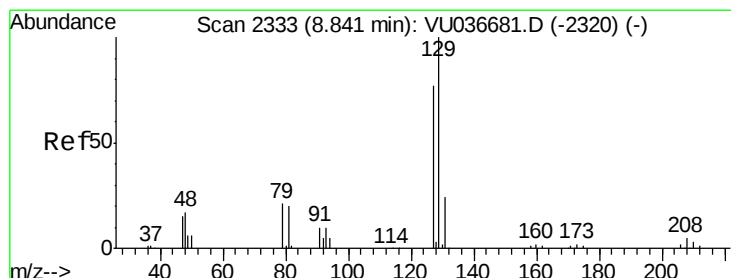
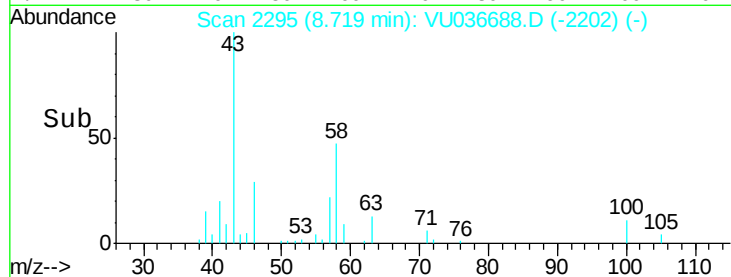
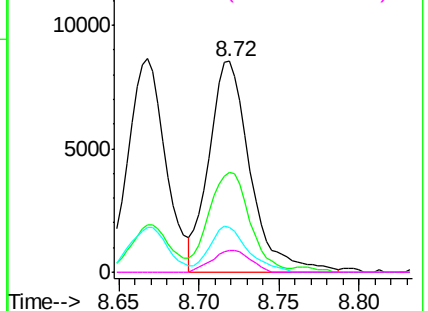
#48
2-Hexanone
Concen: 6.015 ug/L
RT: 8.72 min Scan# 2295
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion:	43	Resp:	15300
Ion	Ratio	Lower	Upper
43	100		
58	43.7	43.6	65.4
57	20.3	15.5	23.3
100	9.7	9.0	13.4

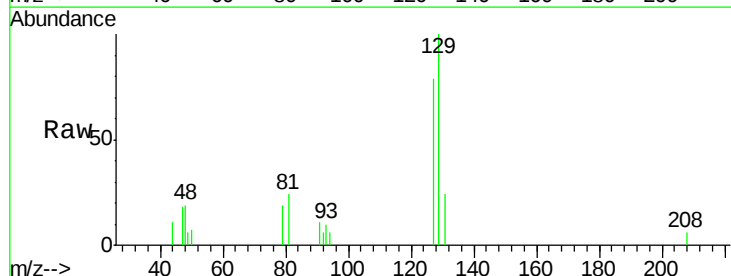


Abundance Ion 43.00 (42.70 to 43.70): VU036688.D (-2284) (-)

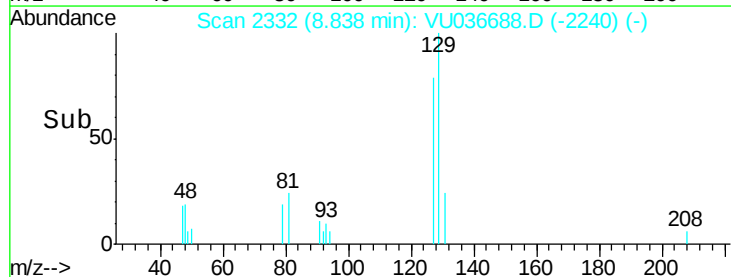
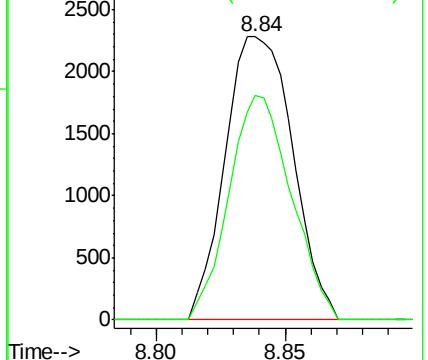


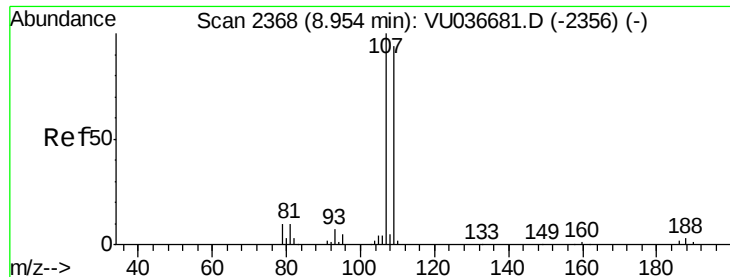
#49
Dibromochloromethane
Concen: 2.367 ug/L
RT: 8.84 min Scan# 2332
Delta R.T. -0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

Tgt Ion:	129	Resp:	4169
Ion	Ratio	Lower	Upper
129	100		
127	79.1	53.6	99.6



Abundance Ion 129.00 (128.70 to 129.70): VU036688.D (-2320) (-)

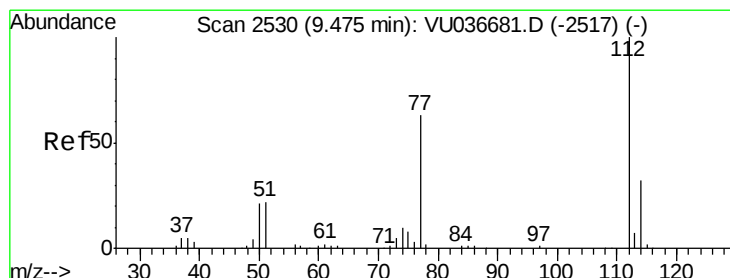
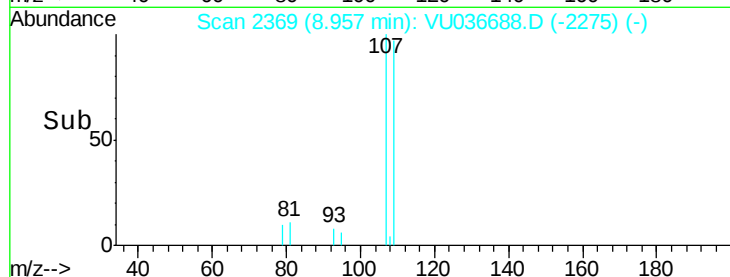
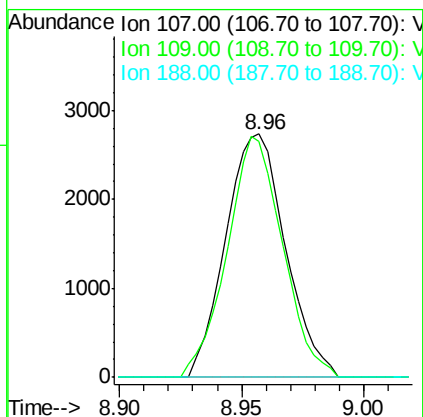
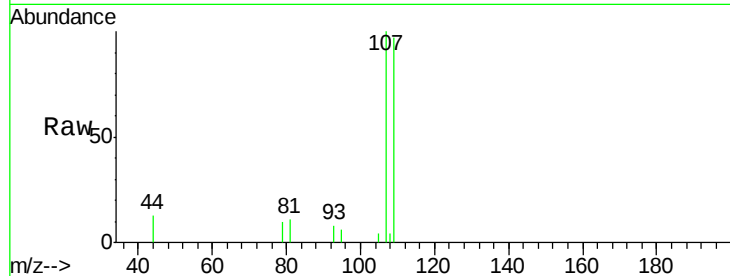




#50
 1,2-Dibromoethane
 Concen: 2.460 ug/L
 RT: 8.96 min Scan# 2369
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

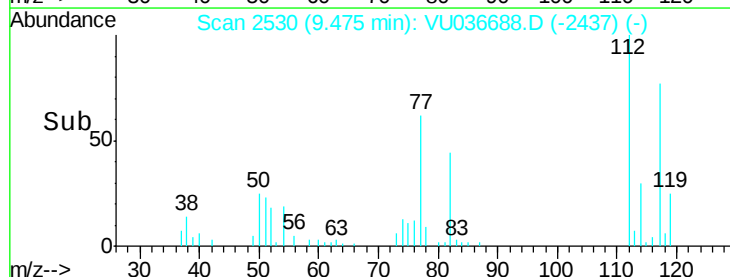
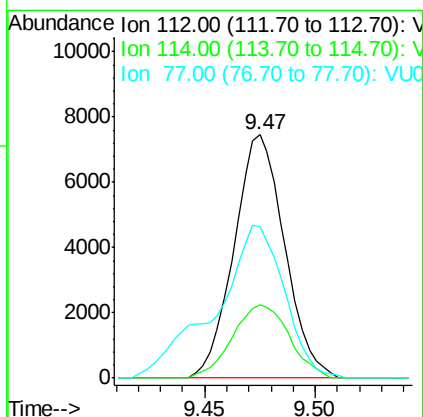
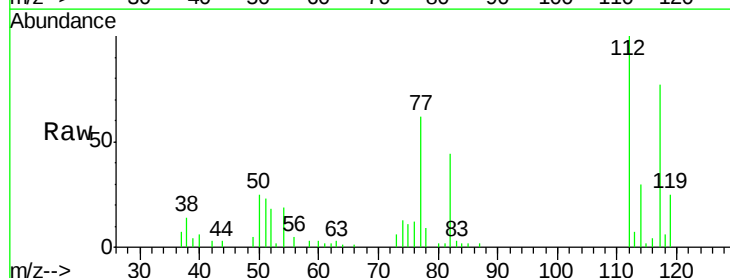
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

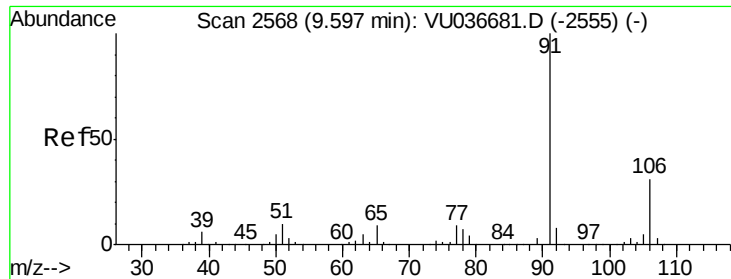
Tot Ion:107 Resp: 4654
 Ion Ratio Lower Upper
 107 100
 109 97.0 65.8 122.2
 188 0.0 2.5 3.7#



#51
 Chlorobenzene
 Concen: 2.499 ug/L
 RT: 9.47 min Scan# 2530
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion:112 Resp: 11903
 Ion Ratio Lower Upper
 112 100
 114 30.2 22.7 42.1
 77 62.4 50.6 75.8

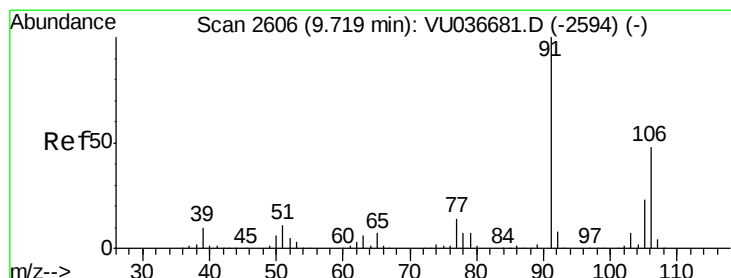
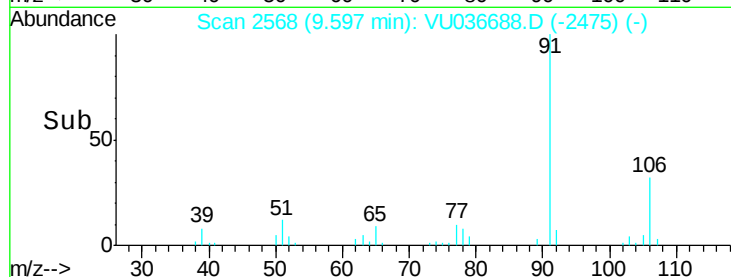
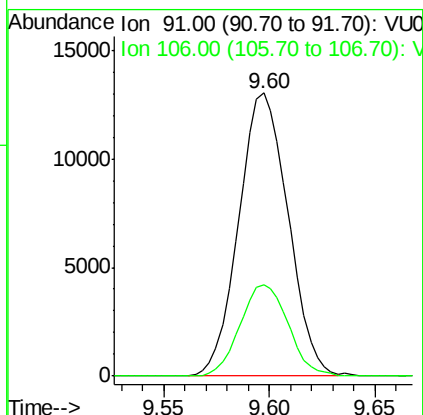
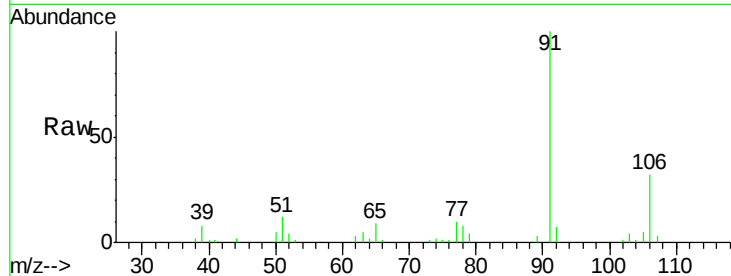




#52
Ethylbenzene
Concen: 2.440 ug/L
RT: 9.60 min Scan# 2568
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

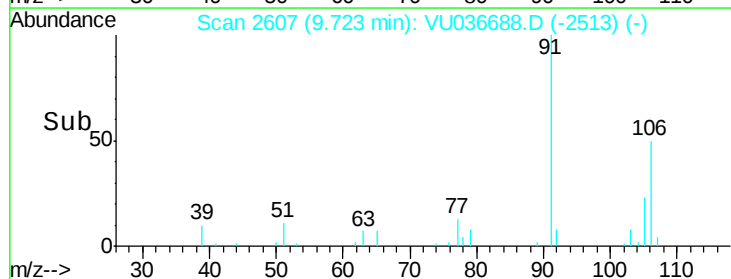
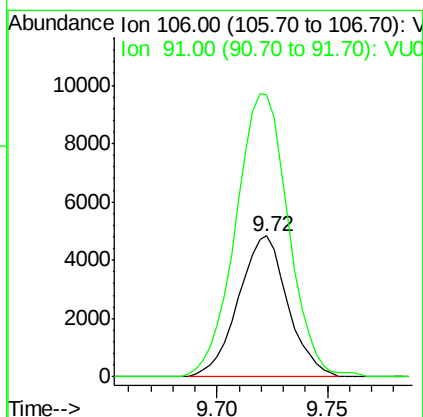
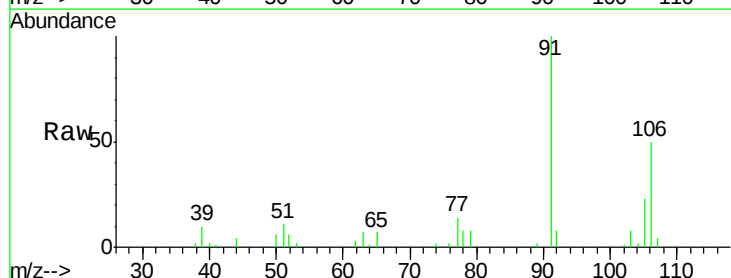
Instrument :
MSVOA_U
ClientSampleId :
MDL02

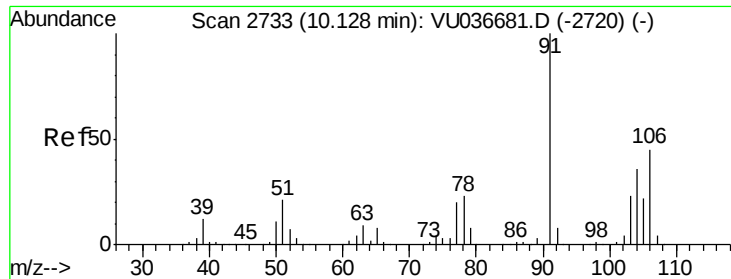
Tot Ion: 91 Resp: 21201
Ion Ratio Lower Upper
91 100
106 32.4 21.3 39.6



#53
m,p-Xylene
Concen: 2.354 ug/L
RT: 9.72 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

Tgt Ion: 106 Resp: 7547
Ion Ratio Lower Upper
106 100
91 200.2 145.9 270.9





#54

o-xylene

Concen: 2.441 ug/L

RT: 10.13 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VU036688.D

Acq: 06 Feb 2020 16:06

Instrument :

MSVOA_U

ClientSampleId :

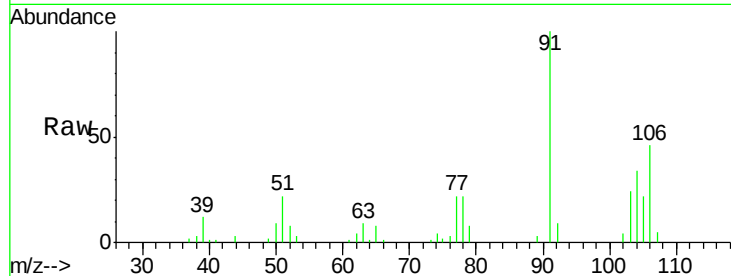
MDL02

Tot Ion:106 Resp: 7752

Ion Ratio Lower Upper

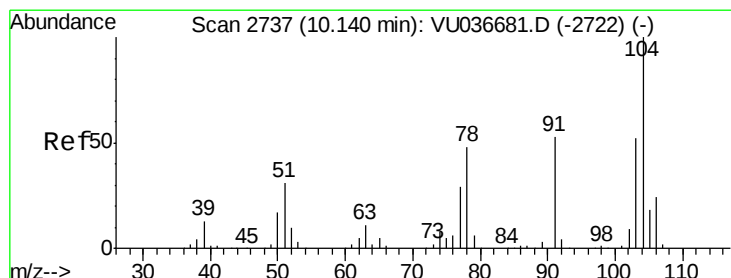
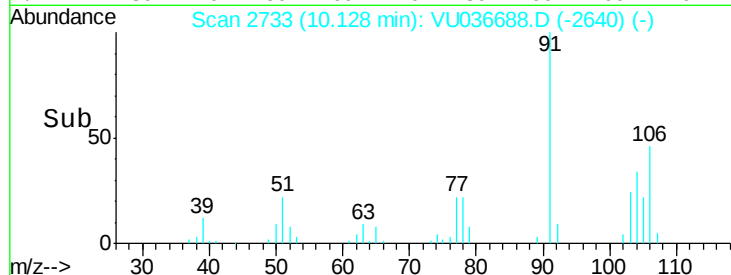
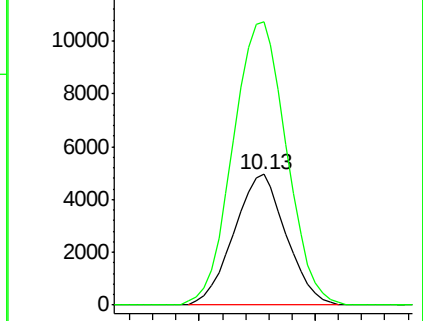
106 100

91 217.0 156.0 289.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 2.263 ug/L

RT: 10.14 min Scan# 2737

Delta R.T. 0.00 min

Lab File: VU036688.D

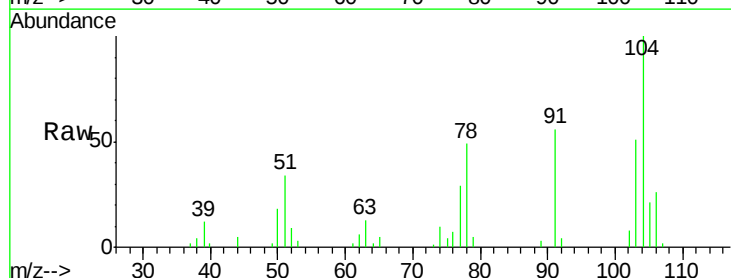
Acq: 06 Feb 2020 16:06

Tgt Ion:104 Resp: 11978

Ion Ratio Lower Upper

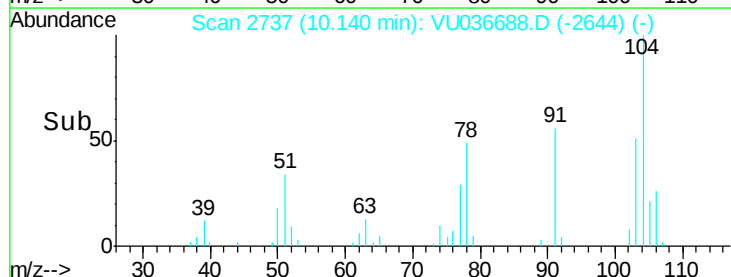
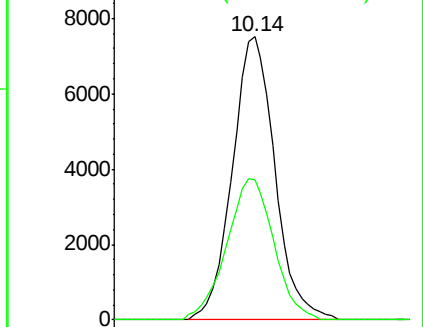
104 100

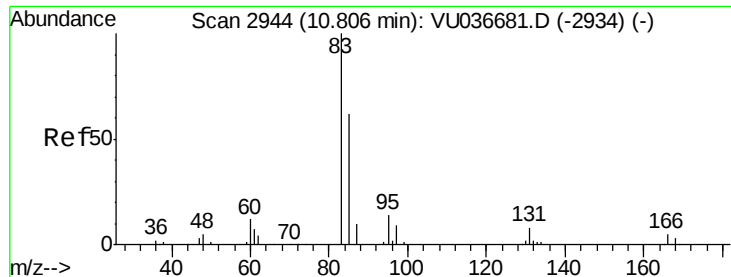
78 49.3 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0

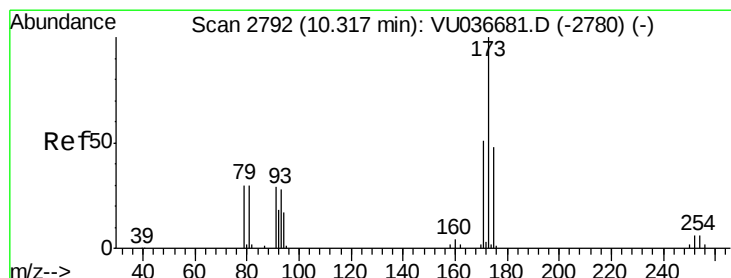
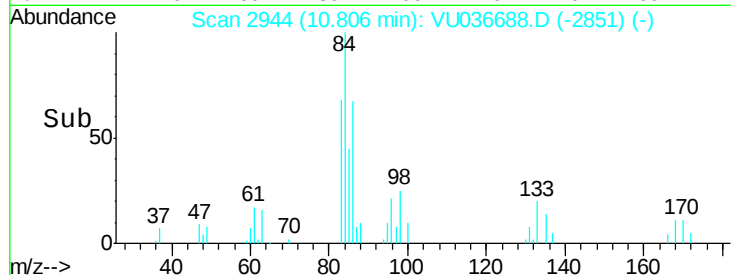
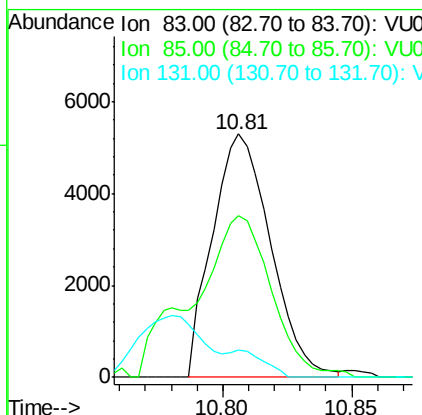
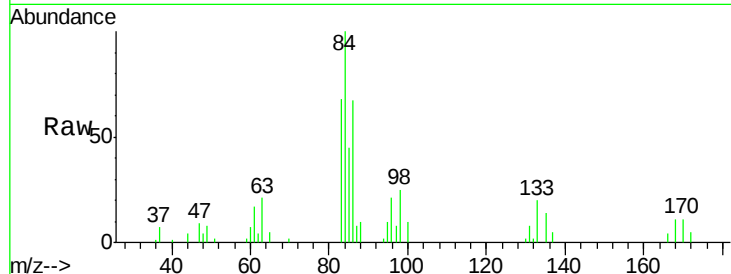




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.554 ug/L
 RT: 10.81 min Scan# 2944
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

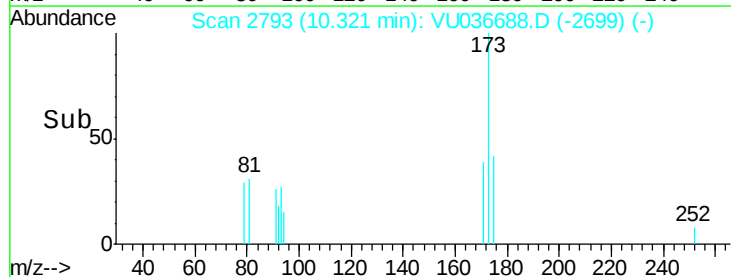
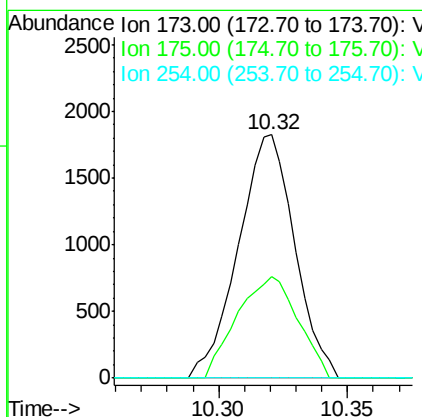
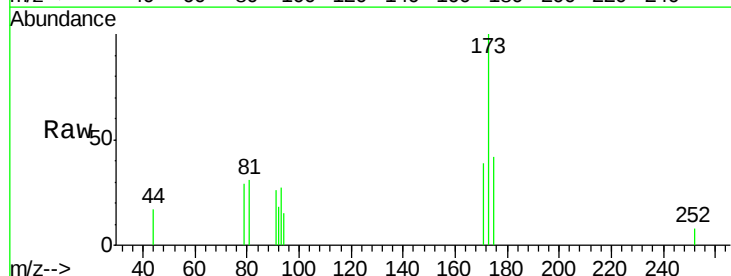
Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

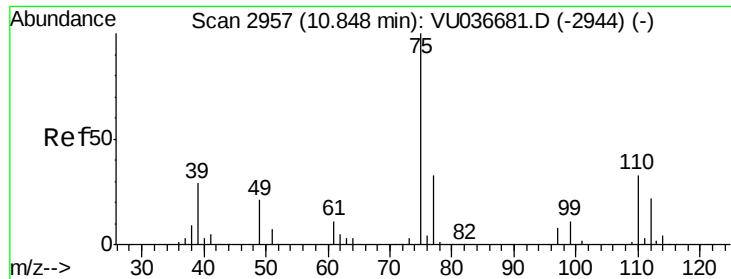
Tot Ion: 83 Resp: 8287
 Ion Ratio Lower Upper
 83 100
 85 66.6 44.7 82.9
 131 11.1 6.8 10.2#



#59
 Bromoform
 Concen: 2.428 ug/L
 RT: 10.32 min Scan# 2793
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion: 173 Resp: 2783
 Ion Ratio Lower Upper
 173 100
 175 44.9 38.2 57.4
 254 0.0 4.8 7.2#

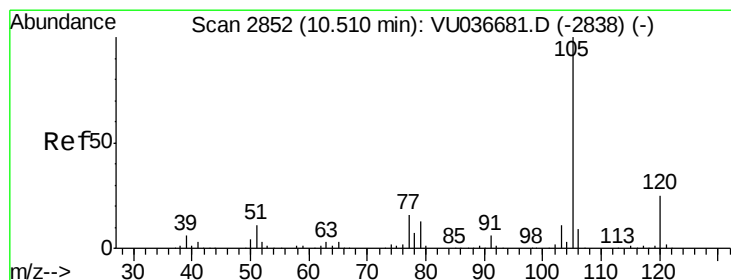
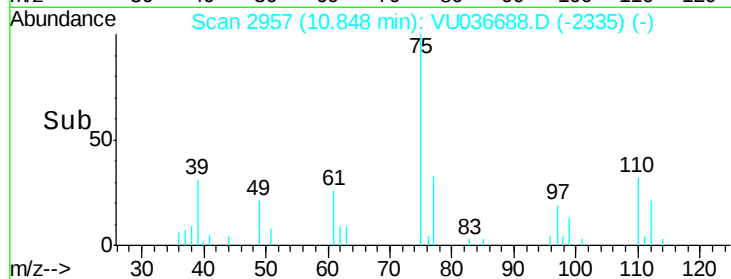
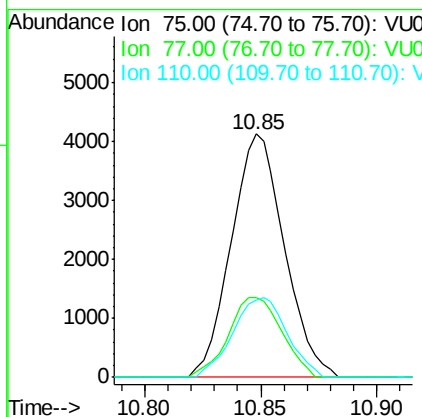
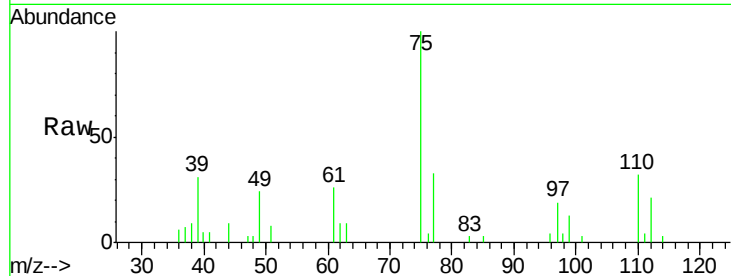




#60
 1,2,3-Trichloropropane
 Concen: 2.690 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

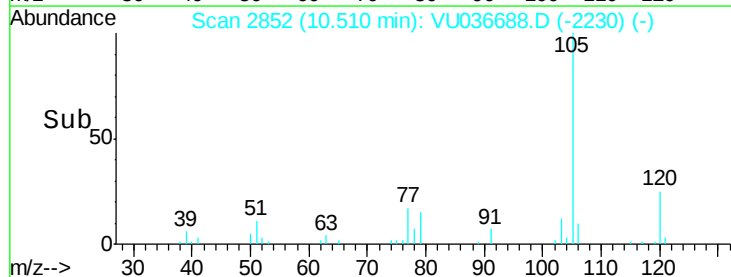
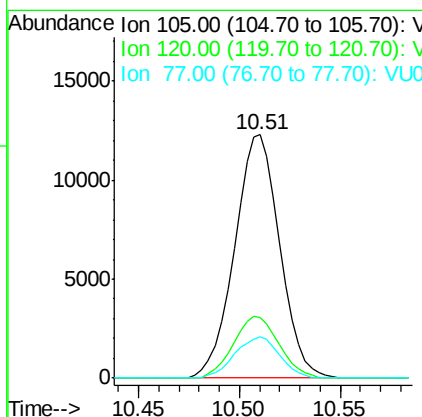
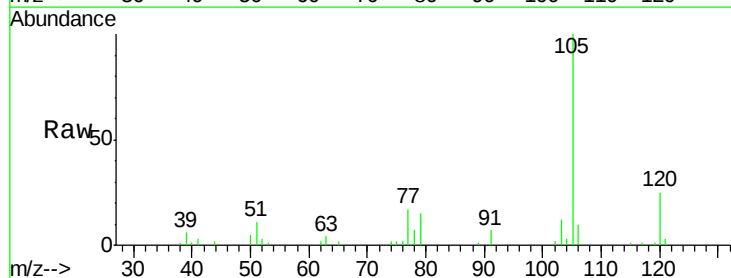
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

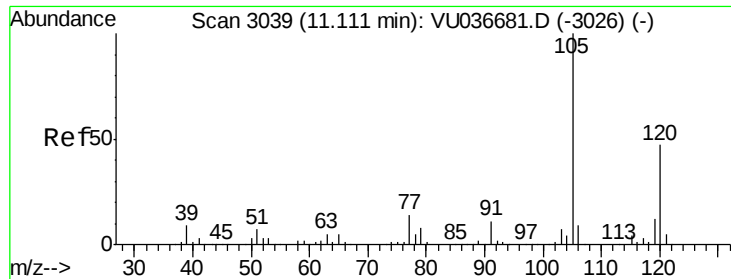
Tot Ion: 75 Resp: 6564
 Ion Ratio Lower Upper
 75 100
 77 33.0 26.1 39.1
 110 33.5 26.9 40.3



#61
 Isopropylbenzene
 Concen: 2.492 ug/L
 RT: 10.51 min Scan# 2852
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion: 105 Resp: 19256
 Ion Ratio Lower Upper
 105 100
 120 25.6 20.2 30.4
 77 16.7 13.0 19.6

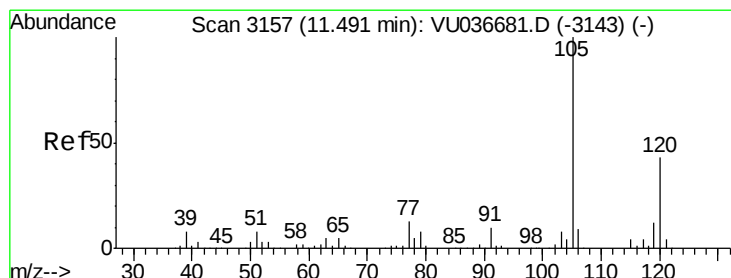
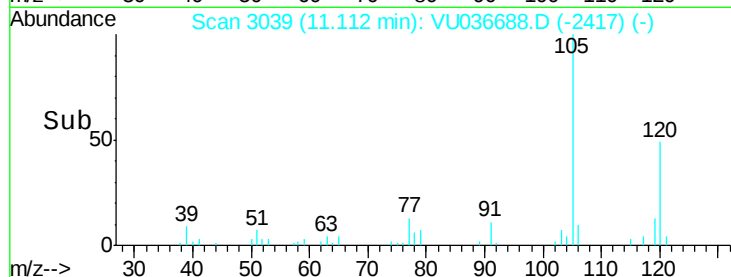
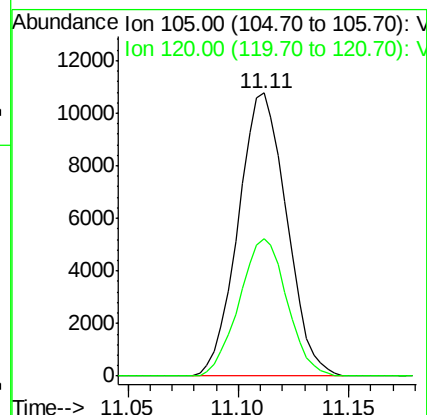
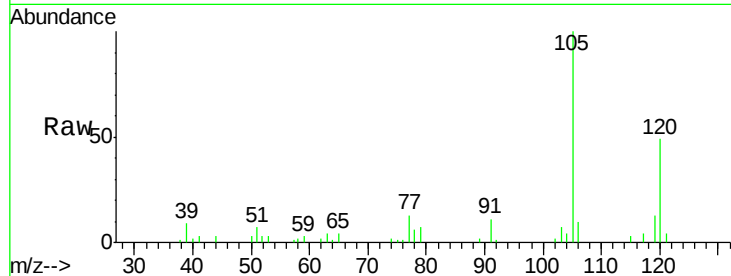




#62
 1,3,5-Trimethylbenzene
 Concen: 2.478 ug/L
 RT: 11.11 min Scan# 3039
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

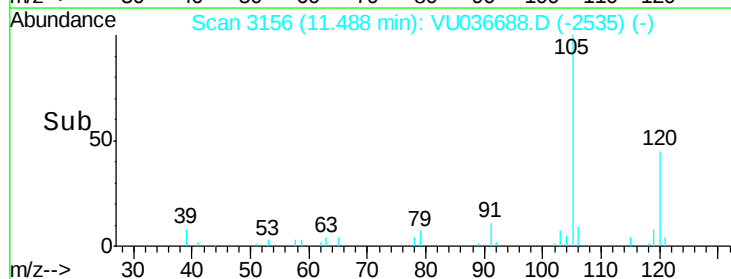
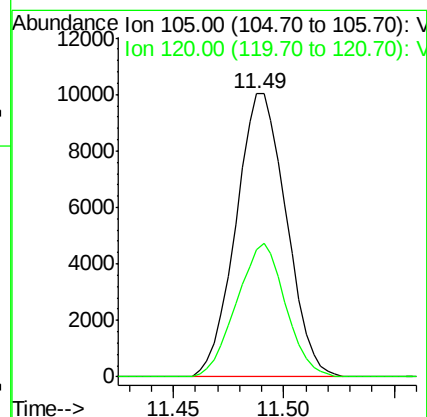
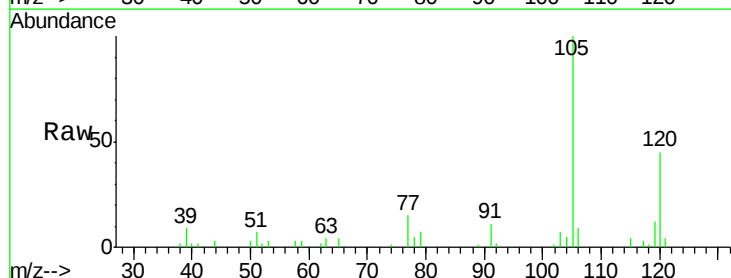
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

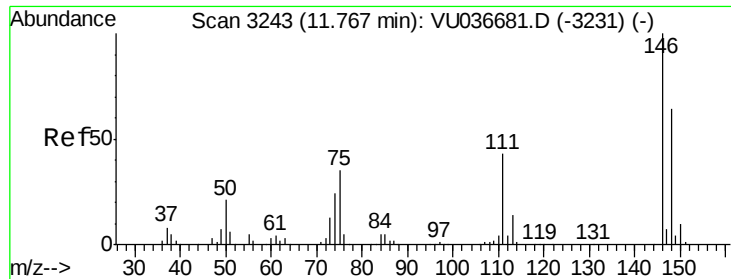
Tot Ion:105 Resp: 16413
 Ion Ratio Lower Upper
 105 100
 120 47.8 37.1 55.7



#63
 1,2,4-Trimethylbenzene
 Concen: 2.408 ug/L
 RT: 11.49 min Scan# 3156
 Delta R.T. -0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion:105 Resp: 15924
 Ion Ratio Lower Upper
 105 100
 120 45.8 34.7 52.1

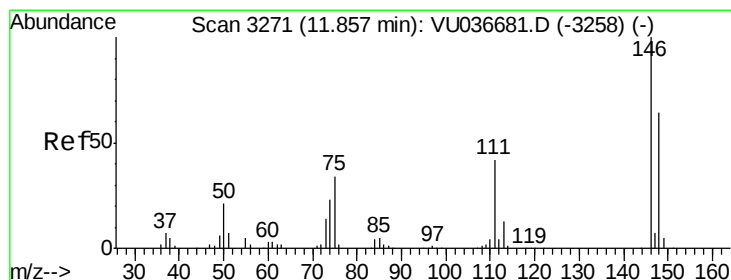
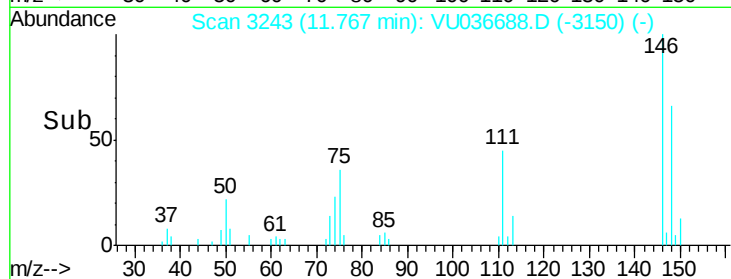
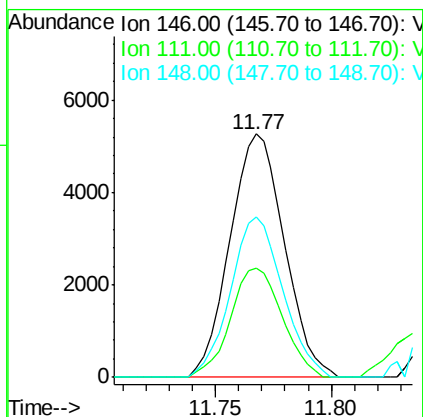
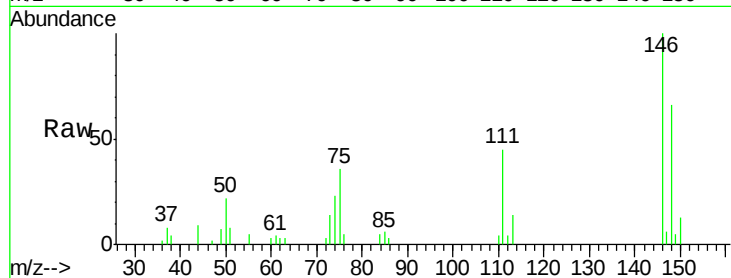




#64
 1,3-Dichlorobenzene
 Concen: 2.636 ug/L
 RT: 11.77 min Scan# 3243
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

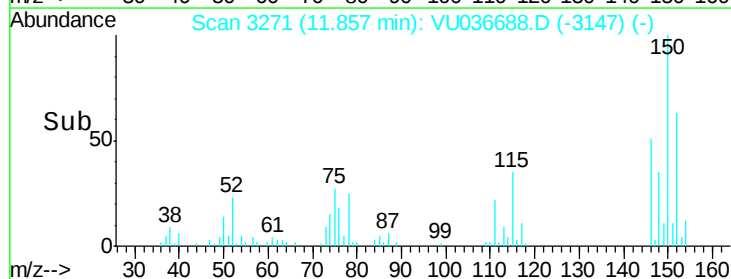
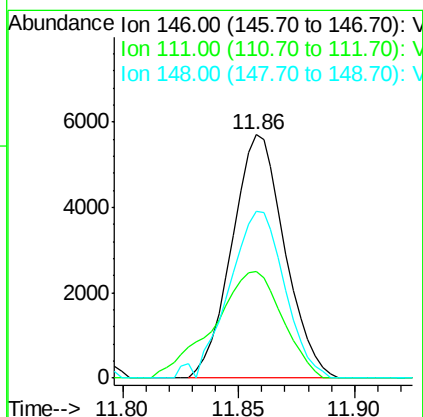
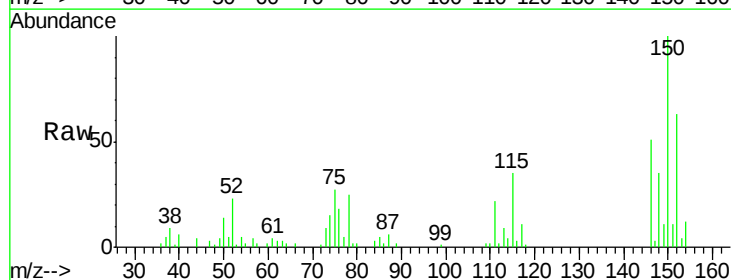
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

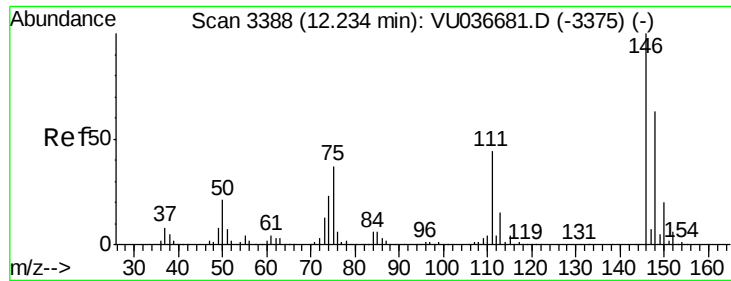
Tot Ion:146 Resp: 8563
 Ion Ratio Lower Upper
 146 100
 111 44.6 30.4 56.4
 148 65.8 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 2.758 ug/L
 RT: 11.86 min Scan# 3271
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion:146 Resp: 9021
 Ion Ratio Lower Upper
 146 100
 111 43.9 29.3 54.3
 148 68.6 44.8 83.2

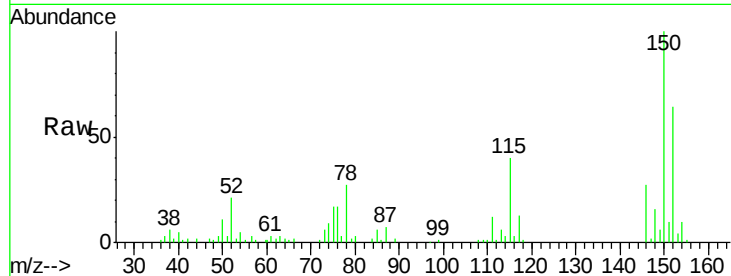




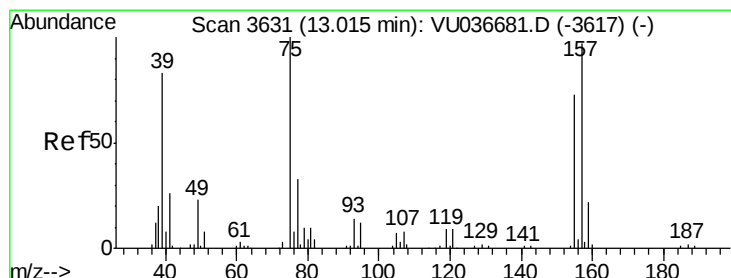
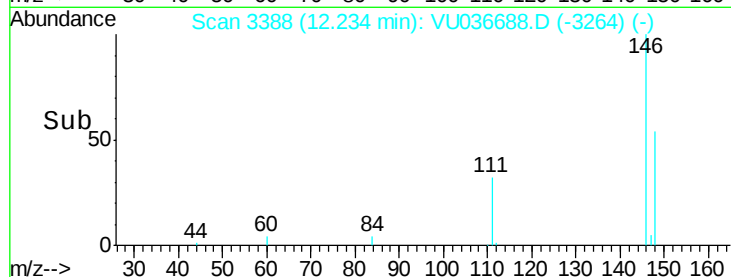
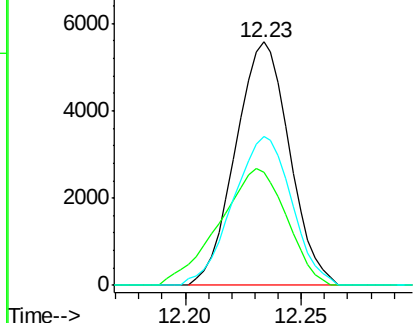
#67
 1,2-Dichlorobenzene
 Concen: 2.743 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL02

Tot Ion:146 Resp: 9022
 Ion Ratio Lower Upper
 146 100
 111 46.6 35.4 53.0
 148 61.2 50.4 75.6

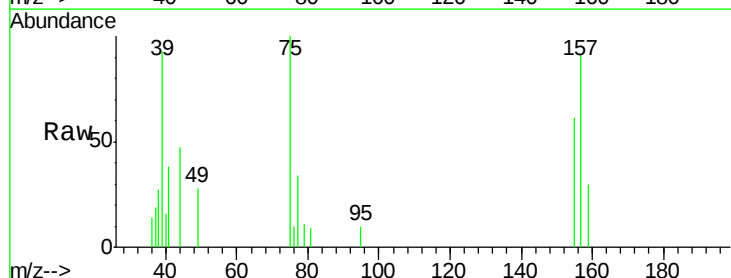


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

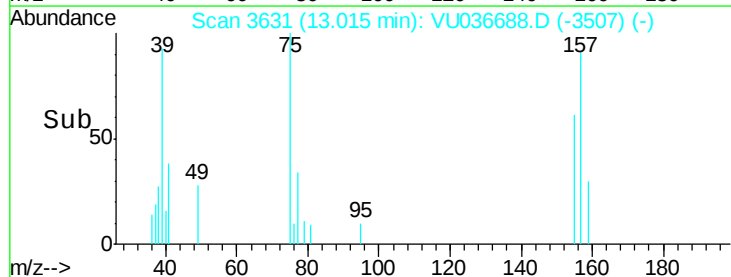
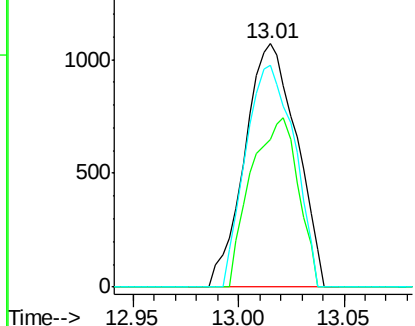


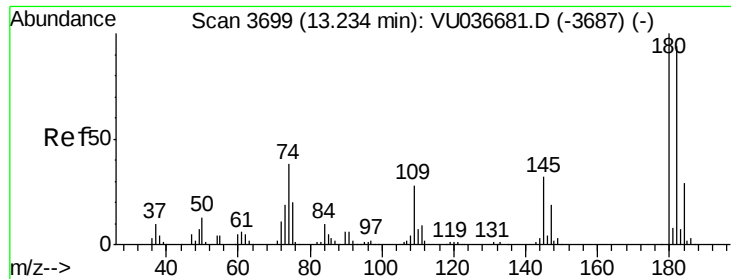
#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.615 ug/L
 RT: 13.01 min Scan# 3631
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion: 75 Resp: 1824
 Ion Ratio Lower Upper
 75 100
 155 60.8 58.7 88.1
 157 91.3 77.8 116.6



Abundance Ion 75.00 (74.70 to 75.70): VU
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

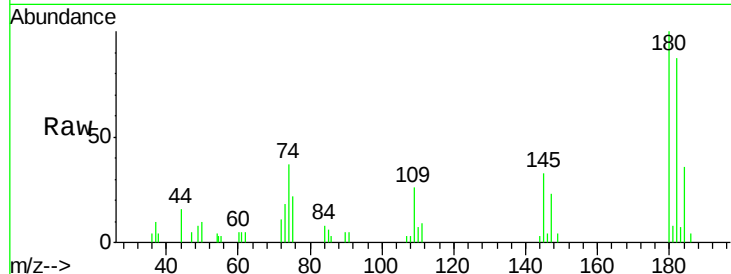




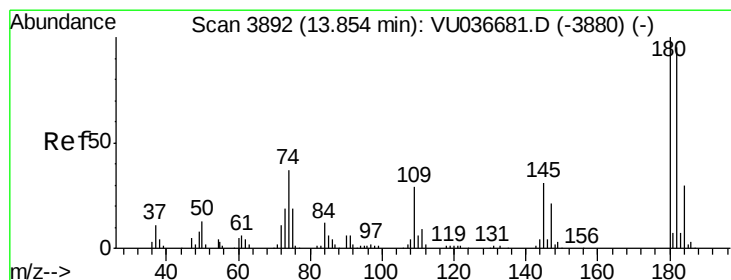
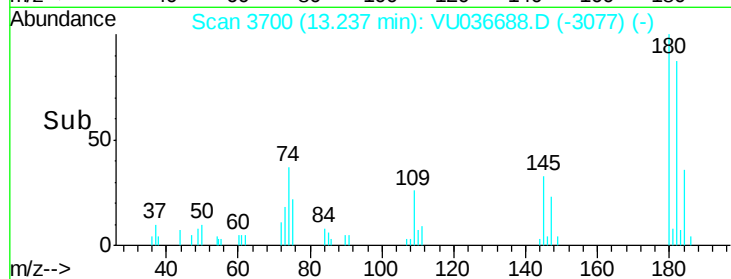
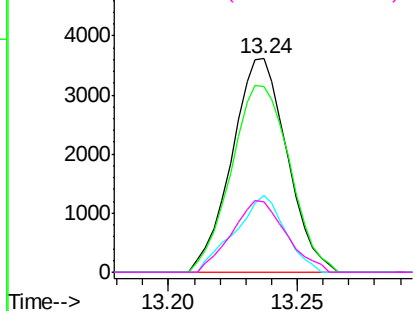
#69
 1,3,5-Trichlorobenzene
 Concen: 2.401 ug/L
 RT: 13.24 min Scan# 3700
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Instrument :
 MSVOA_U
 ClientSampled :
 MDL02

Tot Ion:180 Resp: 5409
 Ion Ratio Lower Upper
 180 100
 182 92.4 76.2 114.4
 184 32.7 23.8 35.6
 145 32.9 25.0 37.6

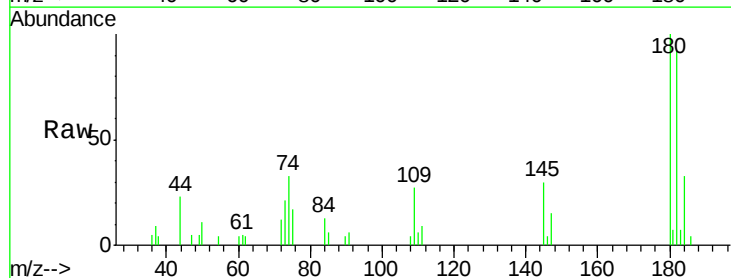


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

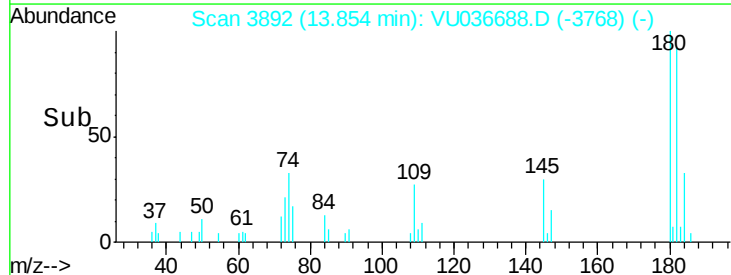
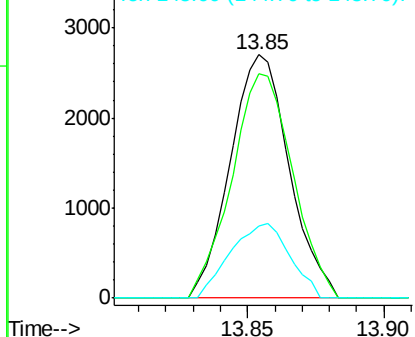


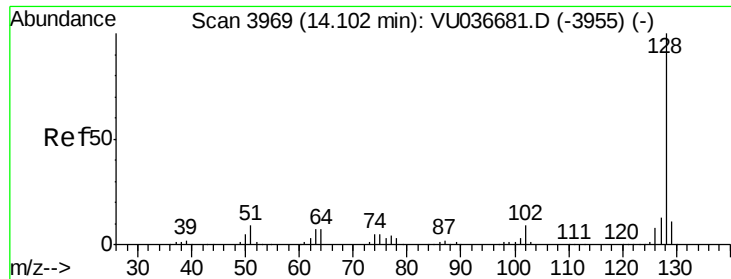
#70
 1,2,4-trichlorobenzene
 Concen: 2.155 ug/L
 RT: 13.85 min Scan# 3892
 Delta R.T. 0.00 min
 Lab File: VU036688.D
 Acq: 06 Feb 2020 16:06

Tgt Ion:180 Resp: 4048
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.1 114.1
 145 30.9 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

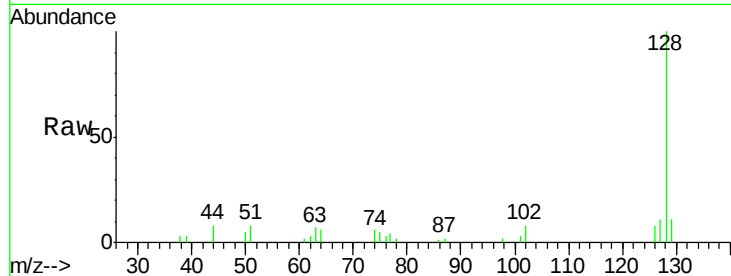




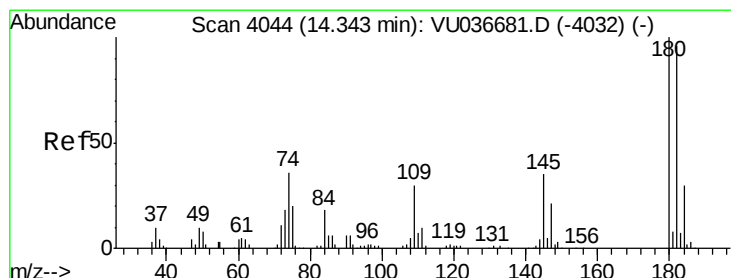
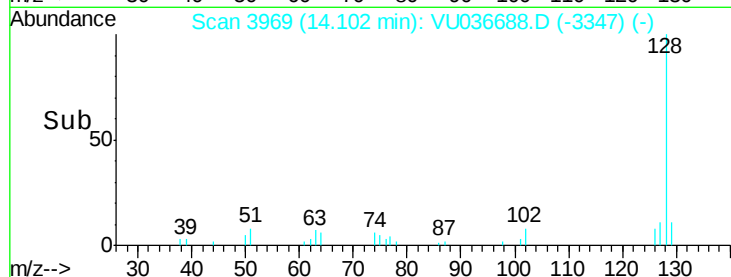
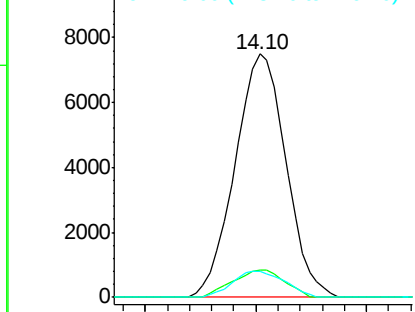
#71
Naphthalene
Concen: 1.811 ug/L
RT: 14.10 min Scan# 3969
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

Instrument :
MSVOA_U
ClientSampleId :
MDL02

Tot Ion:128 Resp: 11991
Ion Ratio Lower Upper
128 100
127 11.4 10.6 16.0
129 11.1 8.5 12.7

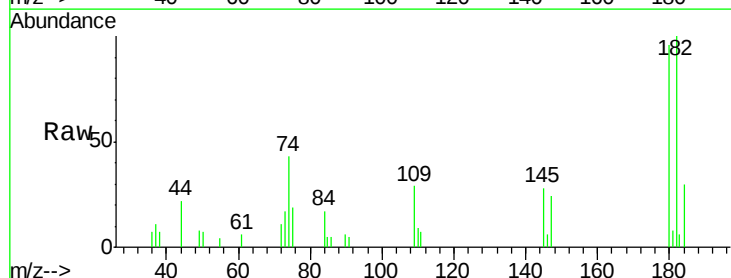


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#72
1,2,3-Trichlorobenzene
Concen: 2.039 ug/L
RT: 14.35 min Scan# 4045
Delta R.T. 0.00 min
Lab File: VU036688.D
Acq: 06 Feb 2020 16:06

Tgt Ion:180 Resp: 3817
Ion Ratio Lower Upper
180 100
182 97.2 76.8 115.2
145 31.4 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

