

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U042722\
 Data File : U048323.D
 Acq On : 27 Apr 2022 18:33
 Operator : SY/MD
 Sample : N2587-11
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXET7

Quant Time: Apr 28 04:40:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 28 04:33:44 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	399846	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	423674	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	249691	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	160150	43.556	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.120%
7) Chloroethane-d5	1.887	69	125319	48.556	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.120%
11) 1,1-Dichloroethene-d2	2.559	63	210720	35.767	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.540%
21) 2-Butanone-d5	4.620	46	302720	96.530	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.530%
24) Chloroform-d	5.060	84	298054	44.691	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.380%
26) 1,2-Dichloroethane-d4	5.700	65	189012	47.766	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.540%
32) Benzene-d6	5.726	84	650716	48.699	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.400%
36) 1,2-Dichloropropane-d6	6.690	67	206997	46.858	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.720%
41) Toluene-d8	7.896	98	605829	50.019	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.040%
43) trans-1,3-Dichloroprop...	8.179	79	99022	50.800	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.600%
47) 2-Hexanone-d5	8.636	63	278049	116.662	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	116.660%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	363176	46.876	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.760%
66) 1,2-Dichlorobenzene-d4	12.195	152	277199	49.351	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.700%
Target Compounds						
2) Dichlorodifluoromethane	1.382	85	1882	0.623	ug/L	90
5) Vinyl chloride	1.604	62	108787	31.217	ug/L #	64
8) Chloroethane	1.912	64	2726	1.383	ug/L #	74
10) 1,1,2-Trichloro-1,2,2-...	2.559	101	2233	0.741	ug/L #	18
12) 1,1-Dichloroethene	2.568	96	5353	2.036	ug/L #	1
13) Acetone	2.626	43	11339	5.632	ug/L	98
14) Carbon disulfide	2.787	76	6499	1.014	ug/L	96
17) trans-1,2-Dichloroethene	3.350	96	6596	2.415	ug/L	97
19) 1,1-Dichloroethane	3.867	63	37335	6.537	ug/L	96
20) cis-1,2-Dichloroethene	4.665	96	6613	2.009	ug/L	96
22) 2-Butanone	4.716	43	5681	1.908	ug/L	96
27) 1,2-Dichloroethane	5.774	62	160604	37.752	ug/L #	72
29) Cyclohexane	5.391	56	17799	4.446	ug/L	99
34) Trichloroethene	6.539	95	13080	4.254	ug/L	96
35) Methylcyclohexane	6.761	83	13500	3.127	ug/L #	57
37) 1,2-Dichloropropane	6.793	63	2899	0.812	ug/L #	95
40) 4-Methyl-2-pentanone	7.796	43	7456	1.385	ug/L #	86
42) Toluene	7.970	91	952439	72.320	ug/L	99
44) trans-1,3-Dichloropropene	8.179	75	4924	1.004	ug/L	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

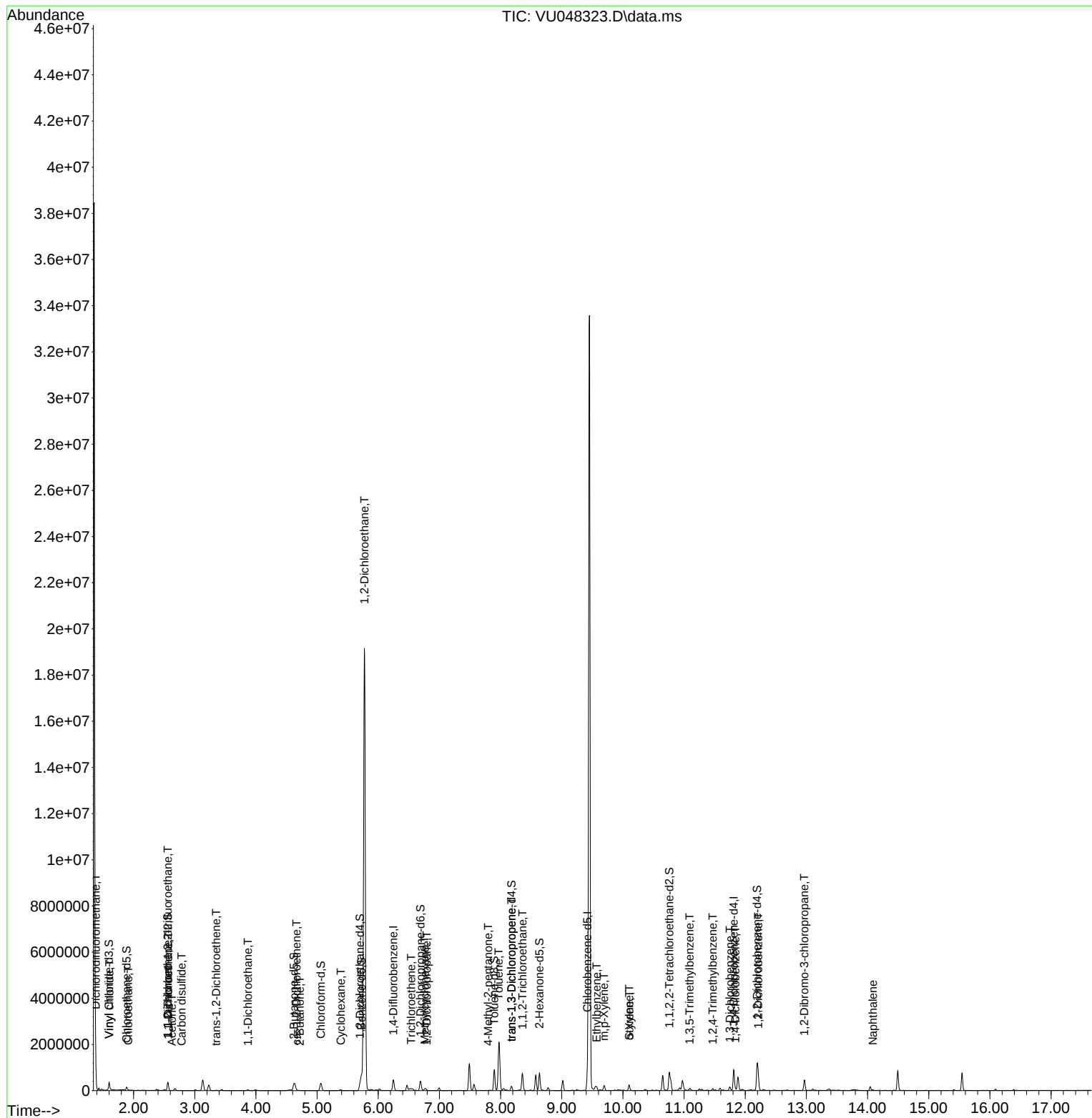
45) 1,1,2-Trichloroethane	8.359	97	35002	9.348	ug/L #	1
52) Ethylbenzene	9.571	91	99056	7.263	ug/L	100
53) m,p-Xylene	9.693	106	64942	12.066	ug/L	100
54) o-Xylene	10.102	106	69247	12.771	ug/L	94
55) Styrene	10.102	104	6527	0.707	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.089	105	11974	1.627	ug/L	97
63) 1,2,4-Trimethylbenzene	11.468	105	42881	3.790	ug/L	99
64) 1,3-Dichlorobenzene	11.748	146	6351	0.811	ug/L	93
65) 1,4-Dichlorobenzene	11.838	146	38166	4.776	ug/L	96
67) 1,2-Dichlorobenzene	12.214	146	144453	17.519	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.967	75	67278	43.266	ug/L #	1
71) Naphthalene	14.089	128	28287	2.151	ug/L	98

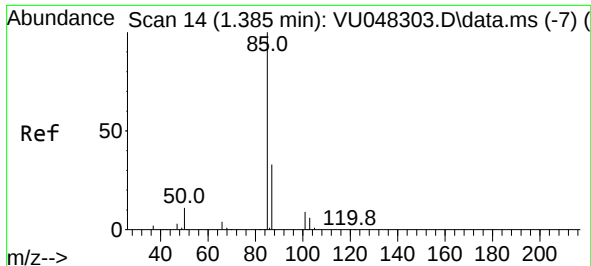
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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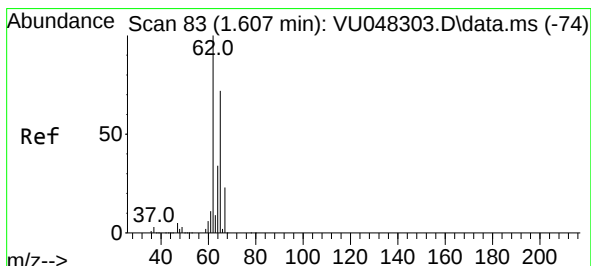
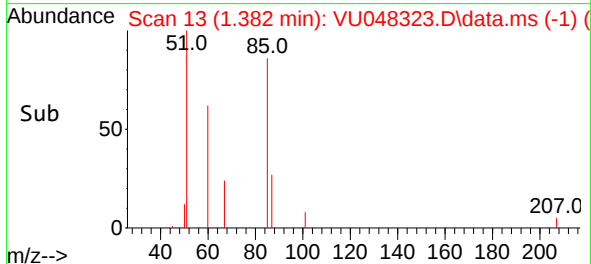
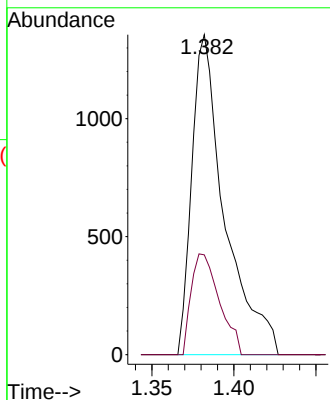
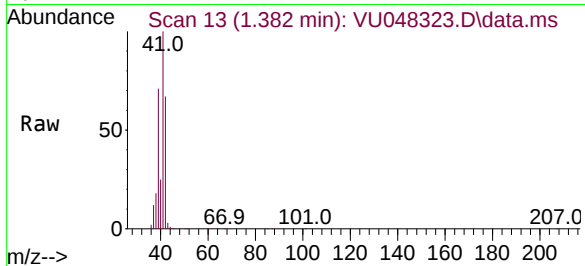




#2
Dichlorodifluoromethane
Concen: 0.623 ug/L
RT: 1.382 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

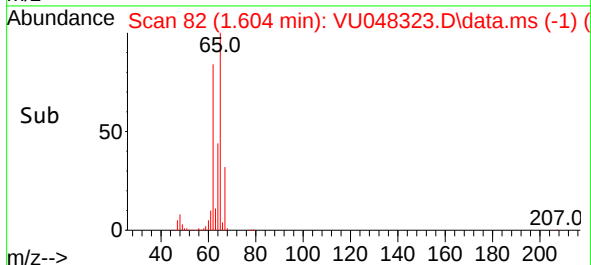
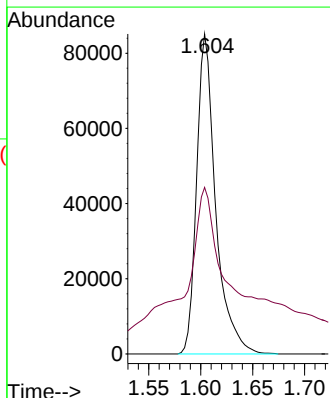
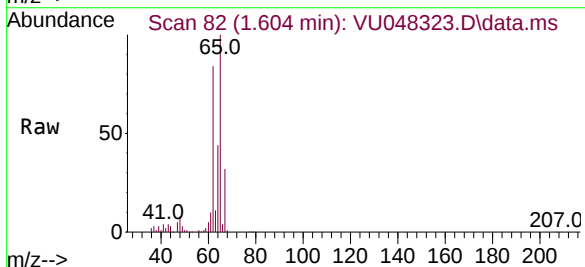
Instrument :
MSVOA_U
ClientSampleId :
EXET7

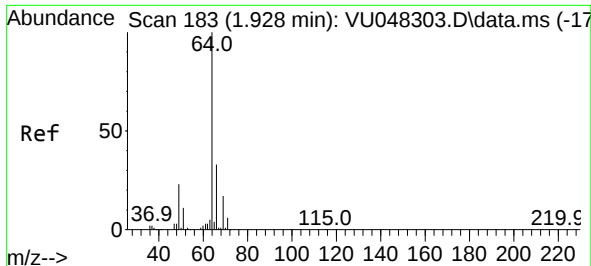
Tgt Ion: 85 Resp: 1882
Ion Ratio Lower Upper
85 100
87 27.0 26.1 39.1



#5
Vinyl chloride
Concen: 31.217 ug/L
RT: 1.604 min Scan# 82
Delta R.T. -0.003 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

Tgt Ion: 62 Resp: 108787
Ion Ratio Lower Upper
62 100
64 52.1 22.5 41.7#

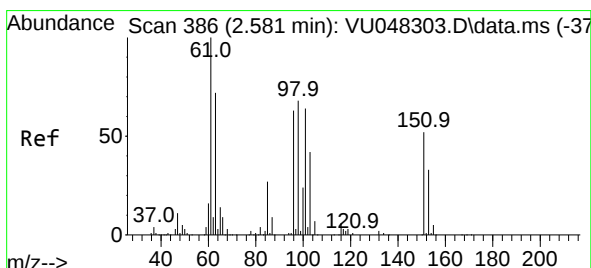
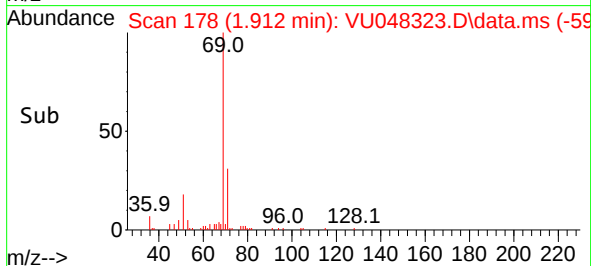
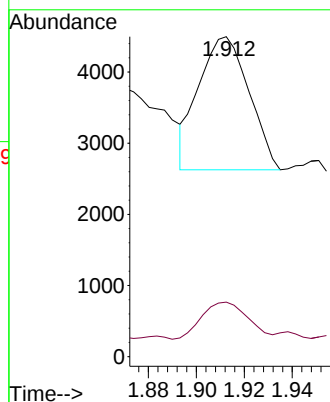
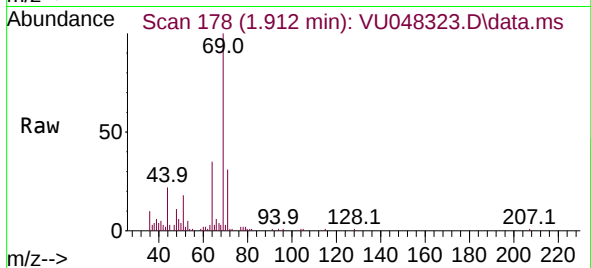




#8
Chloroethane
Concen: 1.383 ug/L
RT: 1.912 min Scan# 11
Delta R.T. -0.016 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

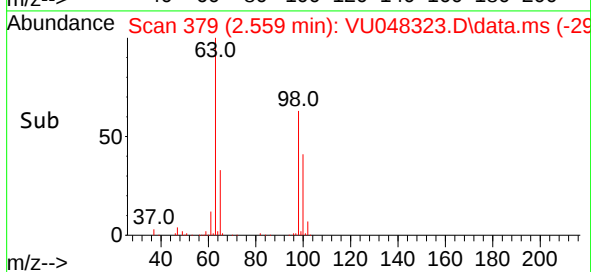
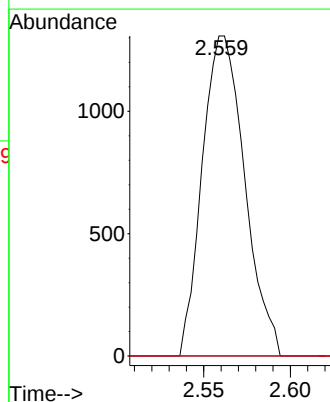
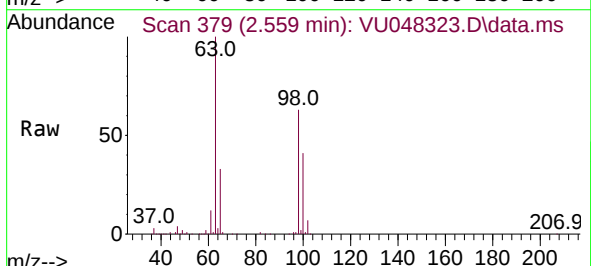
Instrument :
MSVOA_U
ClientSampleId :
EXET7

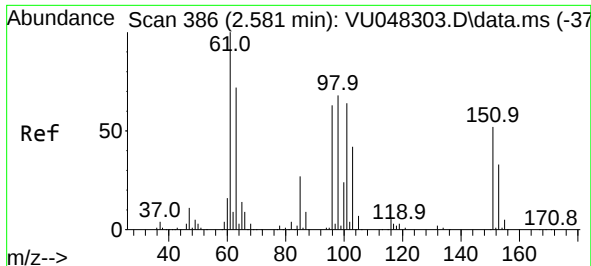
Tgt Ion: 64 Resp: 2726
Ion Ratio Lower Upper
64 100
66 17.1 21.9 40.7#



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.741 ug/L
RT: 2.559 min Scan# 379
Delta R.T. -0.022 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

Tgt Ion: 101 Resp: 2233
Ion Ratio Lower Upper
101 100
85 0.0 32.6 48.8#
151 0.0 64.1 96.1#





#12

1,1-Dichloroethene

Concen: 2.036 ug/L

RT: 2.568 min Scan# 3

Delta R.T. -0.013 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

Instrument :

MSVOA_U

ClientSampleId :

EXET7

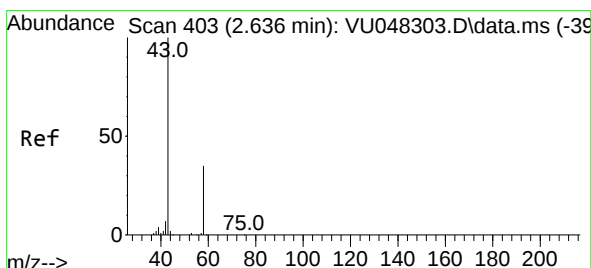
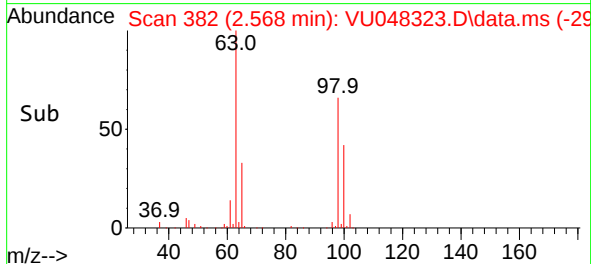
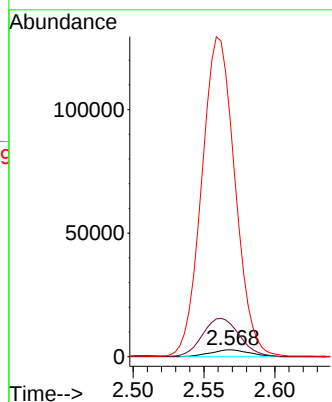
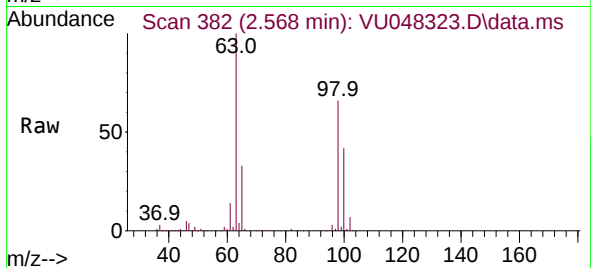
Tgt Ion: 96 Resp: 5353

Ion Ratio Lower Upper

96 100

61 480.4 107.9 200.3#

63 3450.9 80.3 149.1#



#13

Acetone

Concen: 5.632 ug/L

RT: 2.626 min Scan# 400

Delta R.T. -0.009 min

Lab File: VU048323.D

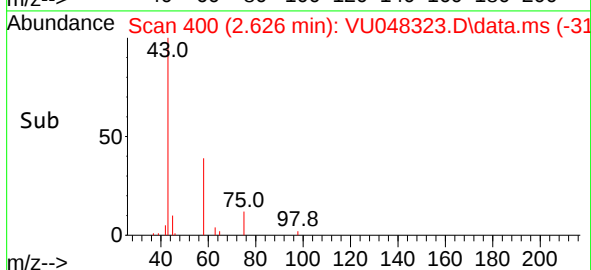
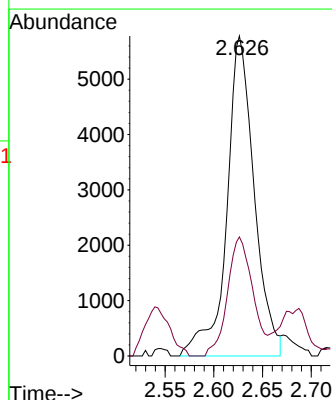
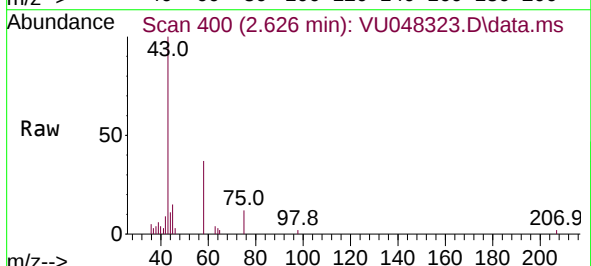
Acq: 27 Apr 2022 18:33

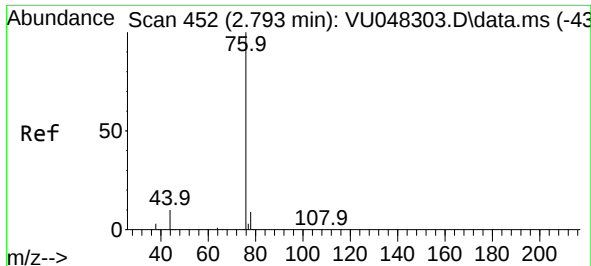
Tgt Ion: 43 Resp: 11339

Ion Ratio Lower Upper

43 100

58 34.2 0.0 71.2

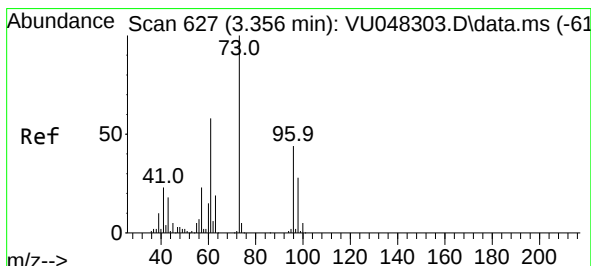
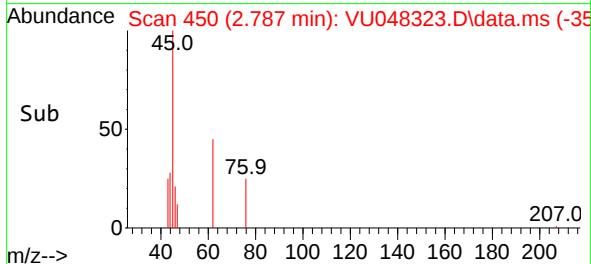
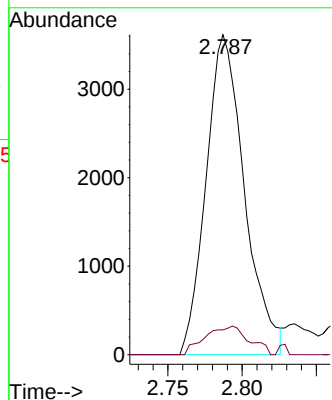
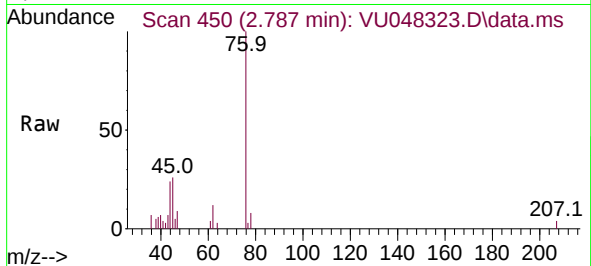




#14
Carbon disulfide
Concen: 1.014 ug/L
RT: 2.787 min Scan# 411
Delta R.T. -0.006 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

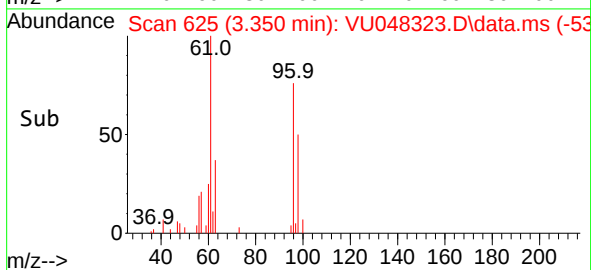
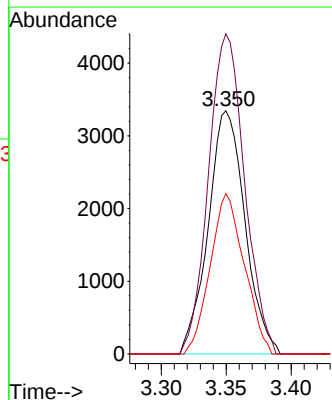
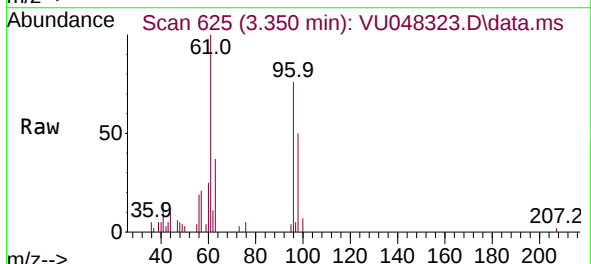
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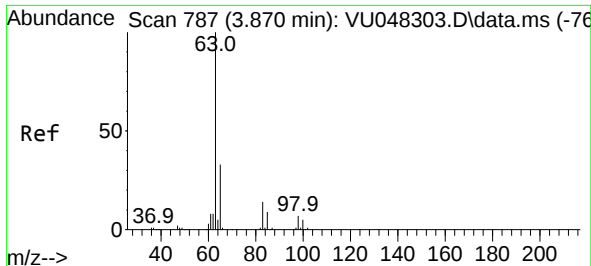
Tgt Ion: 76 Resp: 6499
Ion Ratio Lower Upper
76 100
78 7.8 7.4 11.2



#17
trans-1,2-Dichloroethene
Concen: 2.415 ug/L
RT: 3.350 min Scan# 625
Delta R.T. -0.006 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

Tgt Ion: 96 Resp: 6596
Ion Ratio Lower Upper
96 100
61 131.6 95.2 176.8
98 65.9 44.7 83.1





#19

1,1-Dichloroethane

Concen: 6.537 ug/L

RT: 3.867 min Scan# 71

Delta R.T. -0.003 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

Instrument :

MSVOA_U

ClientSampleId :

EXET7

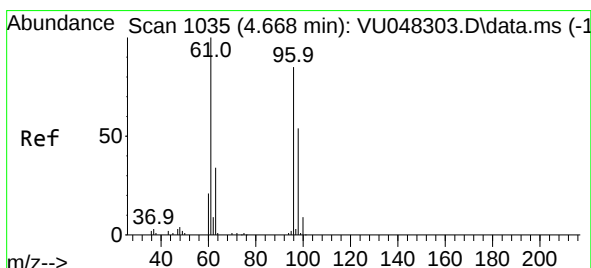
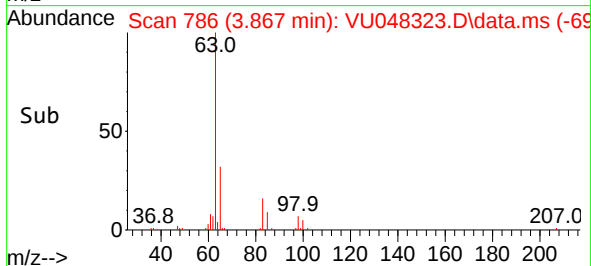
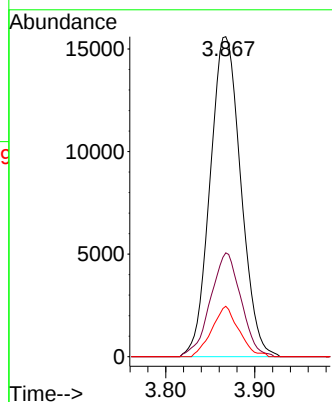
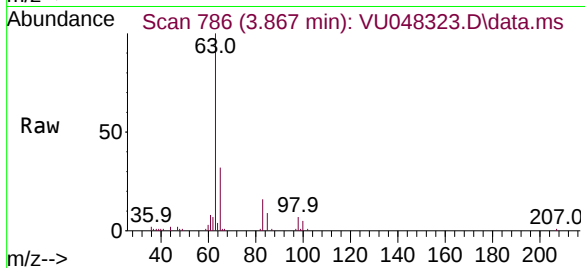
Tgt Ion: 63 Resp: 37335

Ion Ratio Lower Upper

63 100

65 32.4 22.0 40.8

83 15.7 8.8 16.4



#20

cis-1,2-Dichloroethene

Concen: 2.009 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.003 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

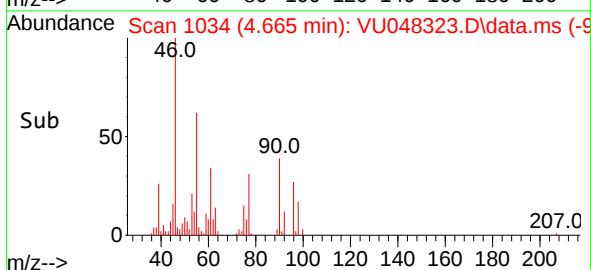
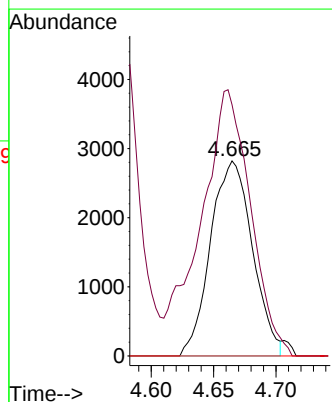
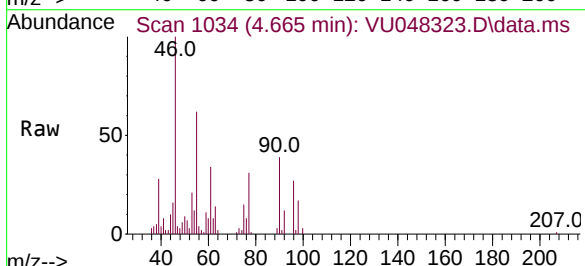
Tgt Ion: 96 Resp: 6613

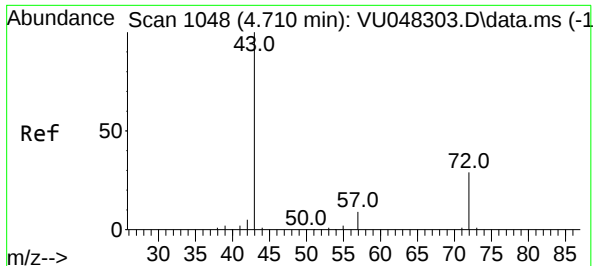
Ion Ratio Lower Upper

96 100

61 128.8 87.0 161.6

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 1.908 ug/L

RT: 4.716 min Scan# 1048

Delta R.T. 0.007 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

Instrument :

MSVOA_U

ClientSampleId :

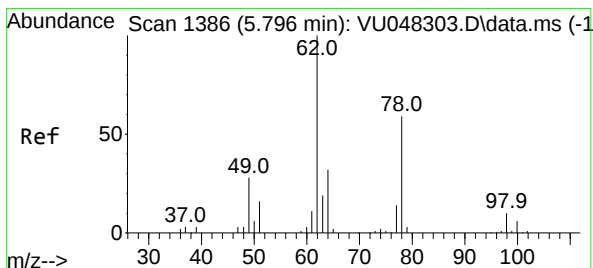
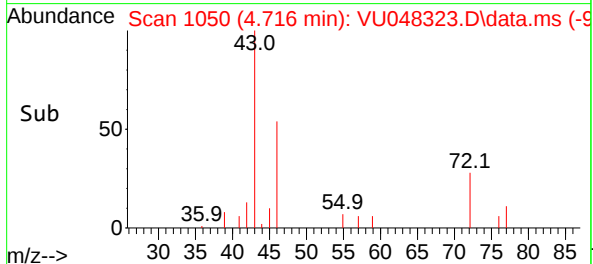
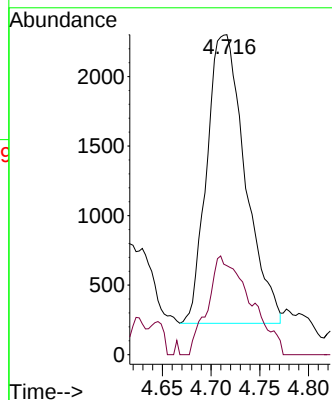
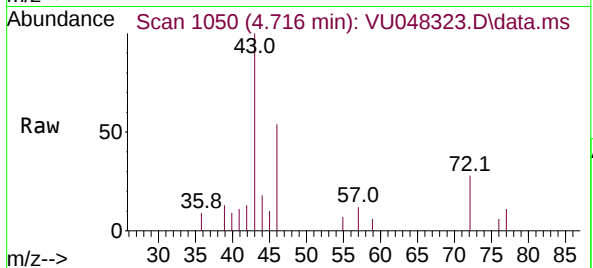
EXET7

Tgt Ion: 43 Resp: 5681

Ion Ratio Lower Upper

43 100

72 31.1 14.6 43.8



#27

1,2-Dichloroethane

Concen: 37.752 ug/L

RT: 5.774 min Scan# 1379

Delta R.T. -0.022 min

Lab File: VU048323.D

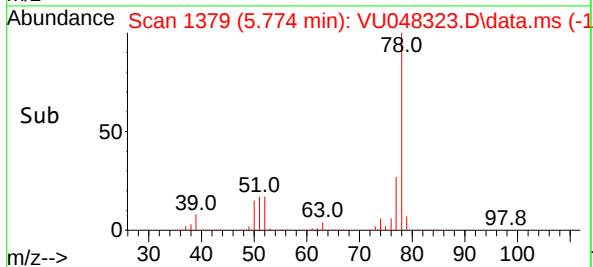
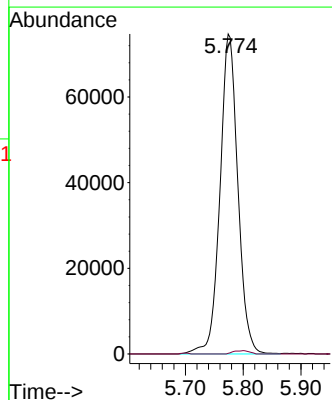
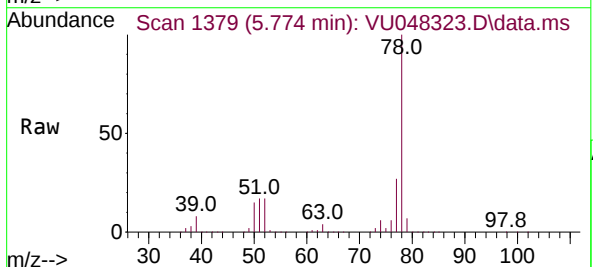
Acq: 27 Apr 2022 18:33

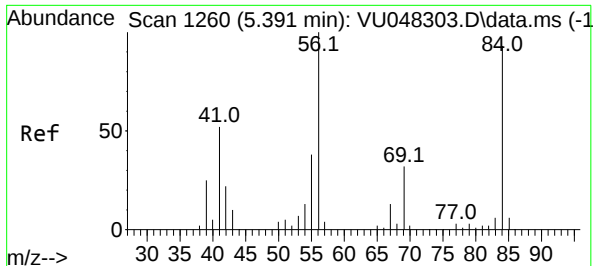
Tgt Ion: 62 Resp: 160604

Ion Ratio Lower Upper

62 100

98 0.2 8.5 12.7#





#29

Cyclohexane

Concen: 4.446 ug/L

RT: 5.391 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

Instrument :

MSVOA_U

ClientSampleId :

EXET7

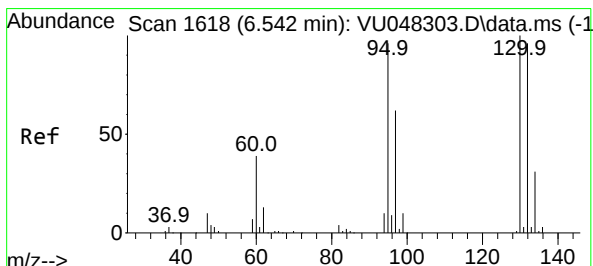
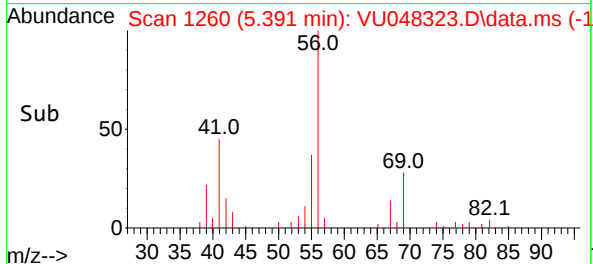
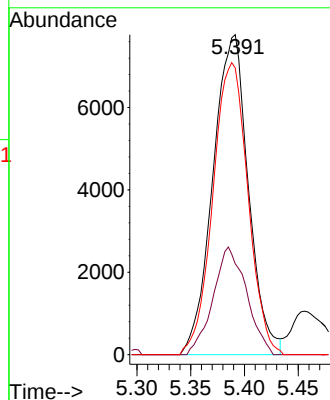
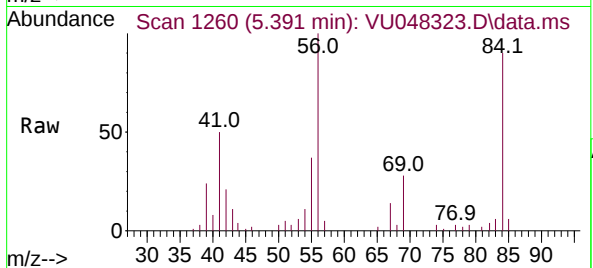
Tgt Ion: 56 Resp: 17799

Ion Ratio Lower Upper

56 100

69 31.8 24.2 36.4

84 90.2 72.2 108.2



#34

Trichloroethene

Concen: 4.254 ug/L

RT: 6.539 min Scan# 1617

Delta R.T. -0.003 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

Tgt Ion: 95 Resp: 13080

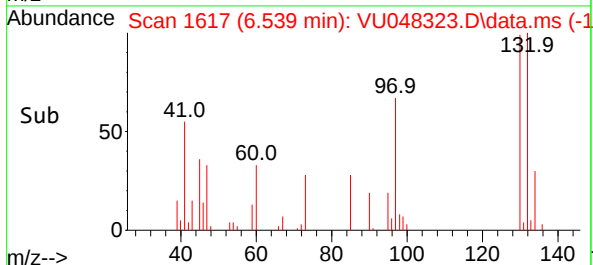
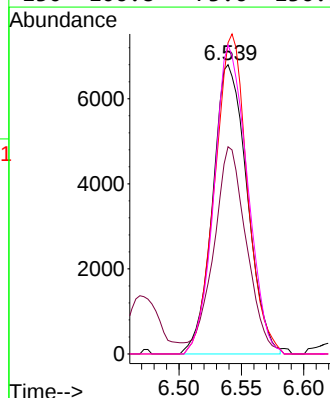
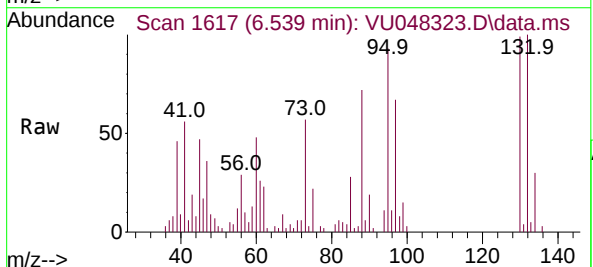
Ion Ratio Lower Upper

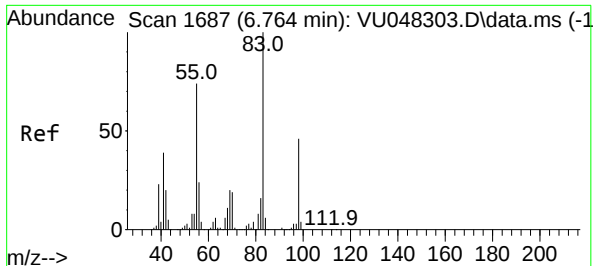
95 100

97 71.6 45.8 85.2

132 107.6 71.6 133.0

130 106.8 73.6 136.8

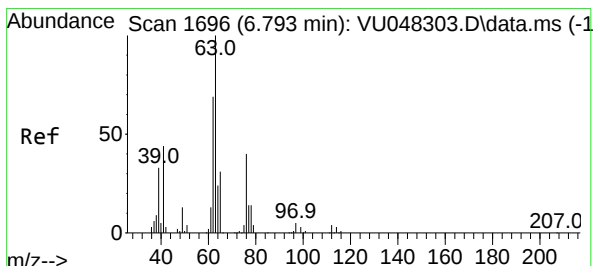
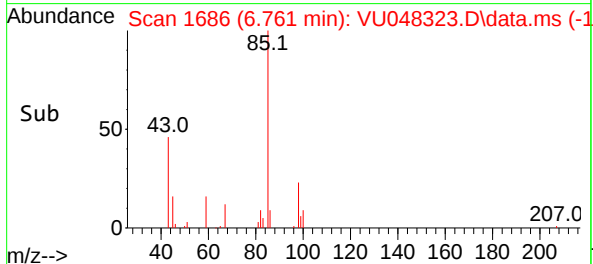
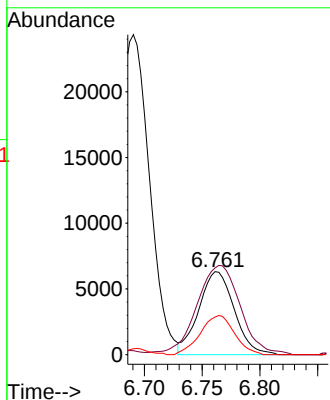
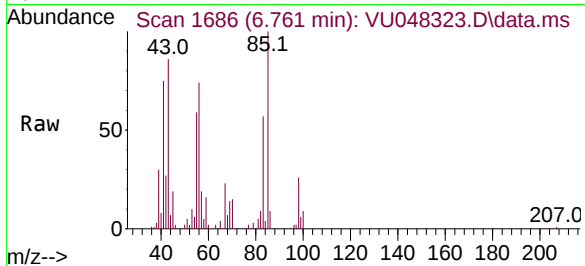




#35
Methylcyclohexane
Concen: 3.127 ug/L
RT: 6.761 min Scan# 1686
Delta R.T. -0.003 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

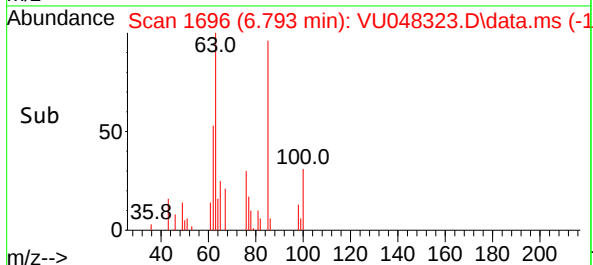
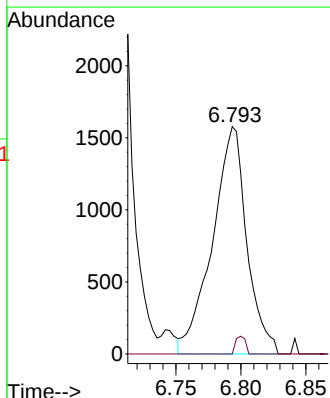
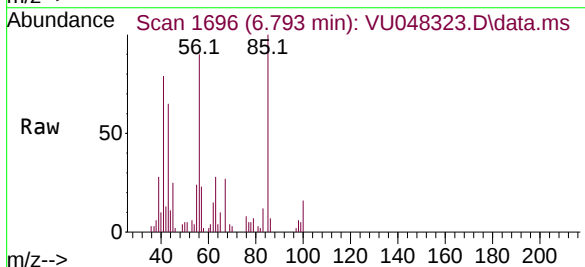
Instrument :
MSVOA_U
ClientSampleId :
EXET7

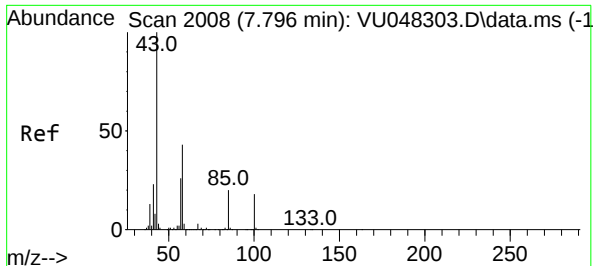
Tgt Ion: 83 Resp: 13500
Ion Ratio Lower Upper
83 100
55 132.4 59.4 89.2#
98 45.4 37.3 55.9



#37
1,2-Dichloropropane
Concen: 0.812 ug/L
RT: 6.793 min Scan# 1696
Delta R.T. 0.000 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

Tgt Ion: 63 Resp: 2899
Ion Ratio Lower Upper
63 100
112 2.2 3.1 4.7#





#40

4-Methyl-2-pentanone

Concen: 1.385 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. 0.000 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

Instrument :

MSVOA_U

ClientSampleId :

EXET7

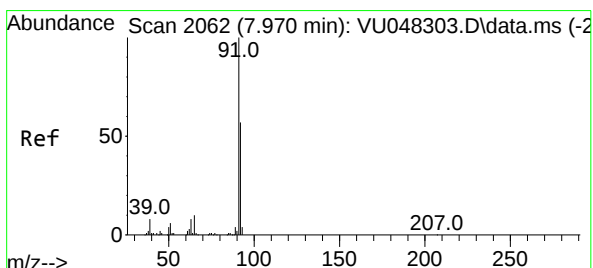
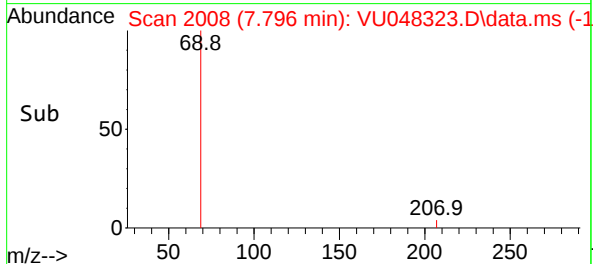
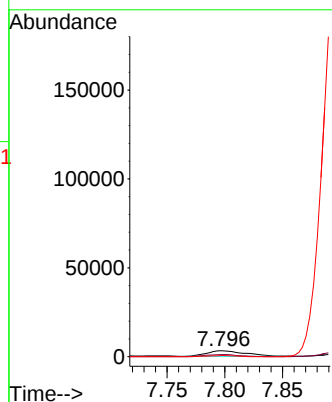
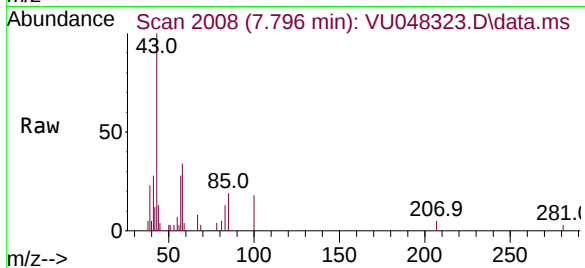
Tgt Ion: 43 Resp: 7456

Ion Ratio Lower Upper

43 100

58 32.2 34.4 51.6#

100 13.8 13.6 20.4



#42

Toluene

Concen: 72.320 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU048323.D

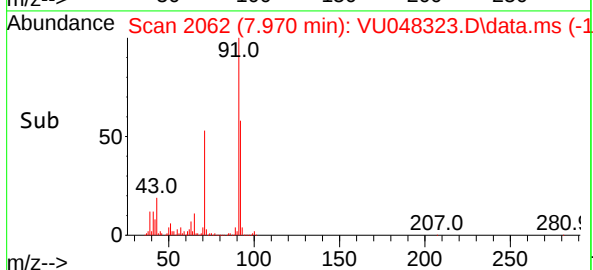
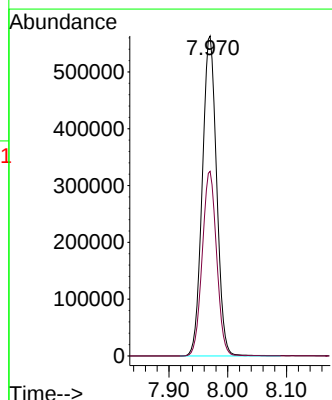
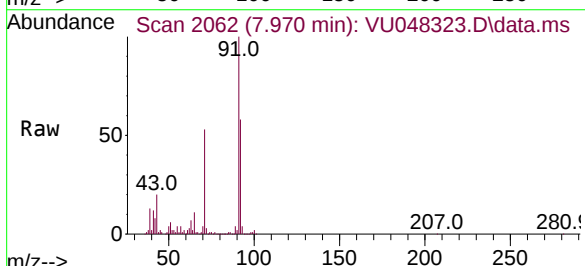
Acq: 27 Apr 2022 18:33

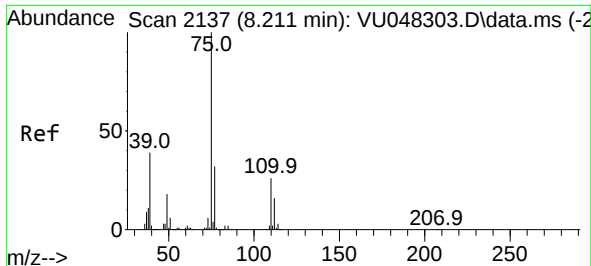
Tgt Ion: 91 Resp: 952439

Ion Ratio Lower Upper

91 100

92 57.7 40.9 76.0

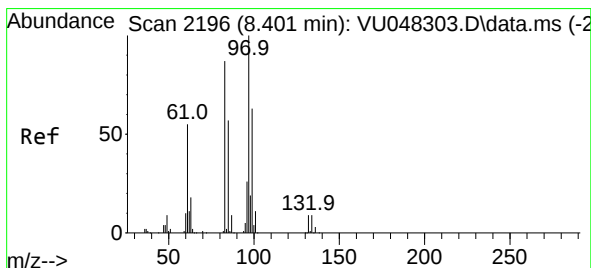
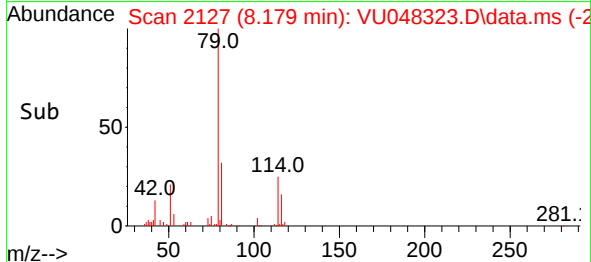
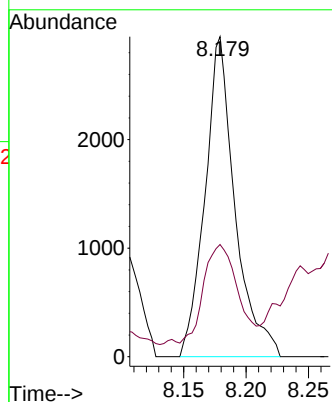
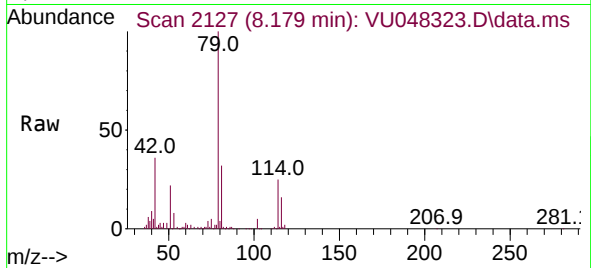




#44
trans-1,3-Dichloropropene
Concen: 1.004 ug/L
RT: 8.179 min Scan# 2137
Delta R.T. -0.032 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

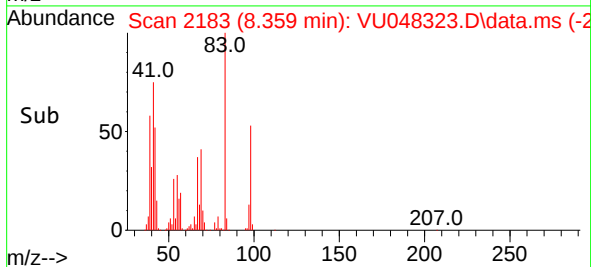
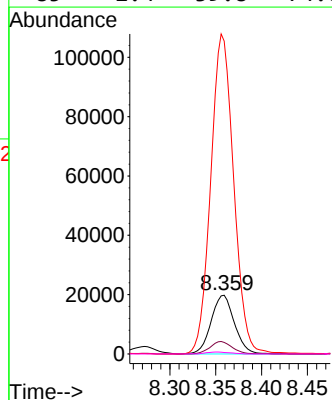
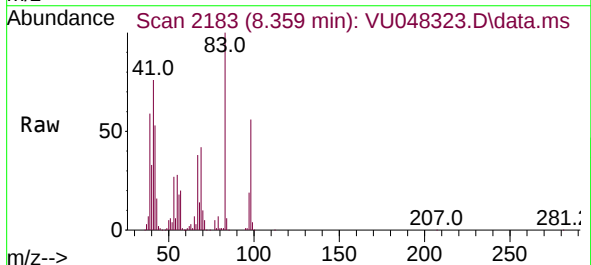
Instrument :
MSVOA_U
ClientSampleId :
EXET7

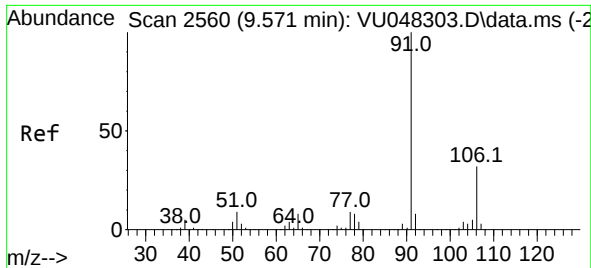
Tgt Ion: 75 Resp: 4924
Ion Ratio Lower Upper
75 100
77 35.0 22.1 41.1



#45
1,1,2-Trichloroethane
Concen: 9.348 ug/L
RT: 8.359 min Scan# 2183
Delta R.T. -0.042 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

Tgt Ion: 97 Resp: 35002
Ion Ratio Lower Upper
97 100
99 19.7 43.7 81.1#
83 532.1 62.6 116.2#
85 2.4 39.8 74.0#

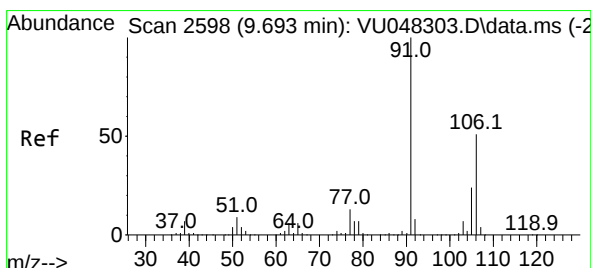
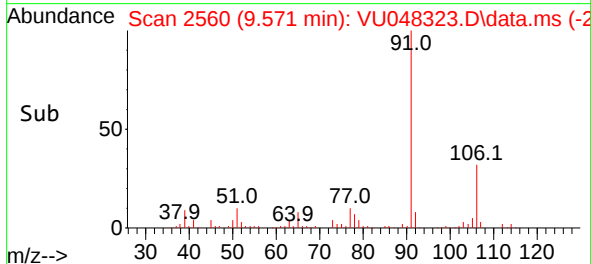
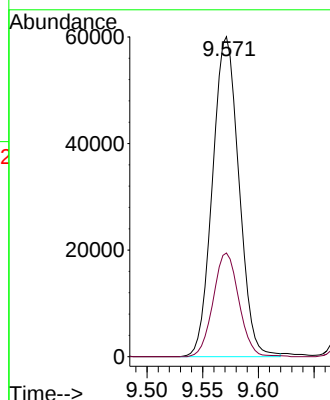
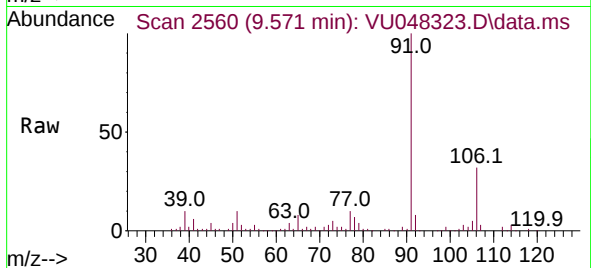




#52
Ethylbenzene
Concen: 7.263 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.000 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

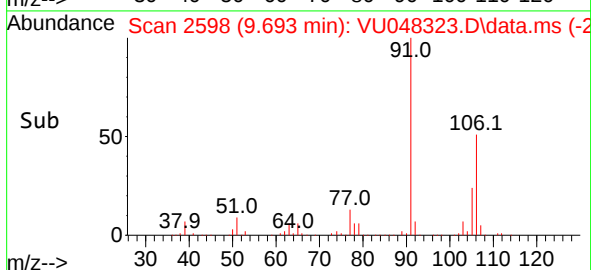
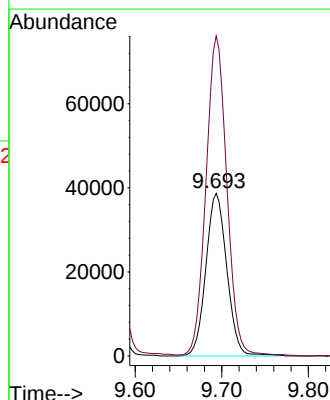
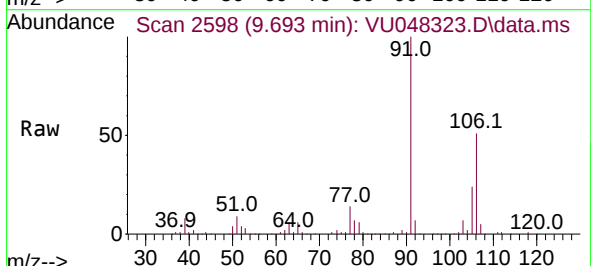
Instrument :
MSVOA_U
ClientSampleId :
EXET7

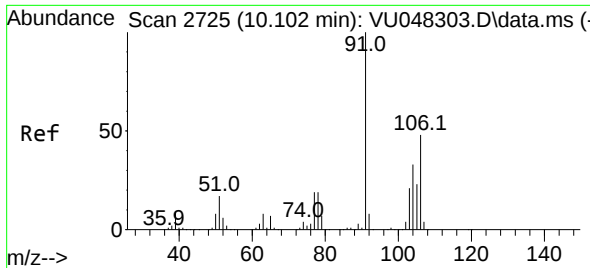
Tgt Ion: 91 Resp: 99056
Ion Ratio Lower Upper
91 100
106 32.4 22.5 41.9



#53
m,p-Xylene
Concen: 12.066 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

Tgt Ion: 106 Resp: 64942
Ion Ratio Lower Upper
106 100
91 196.8 137.4 255.2

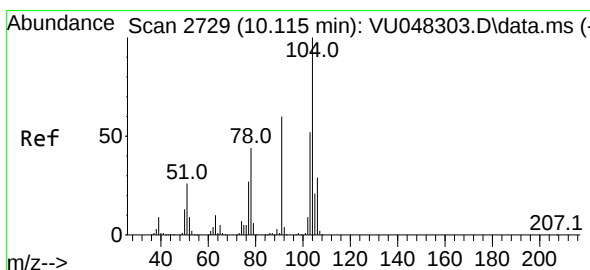
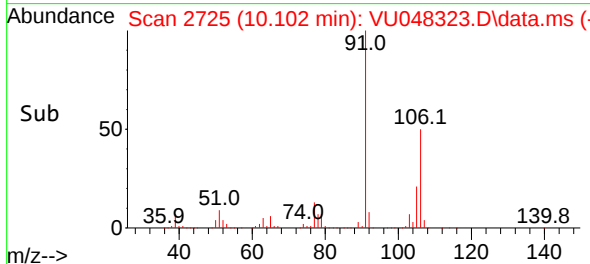
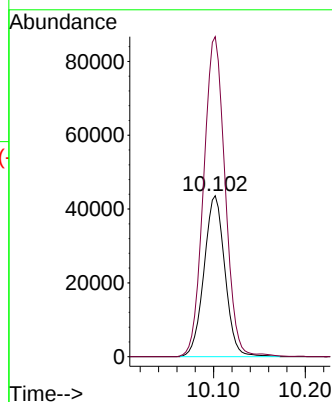
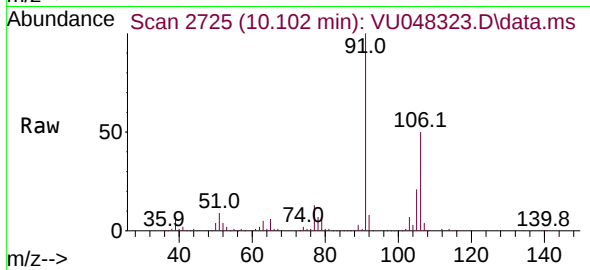




#54
o-Xylene
Concen: 12.771 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. 0.000 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

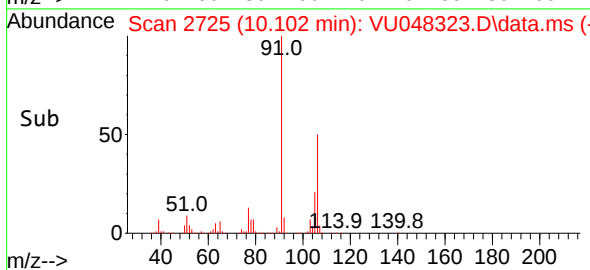
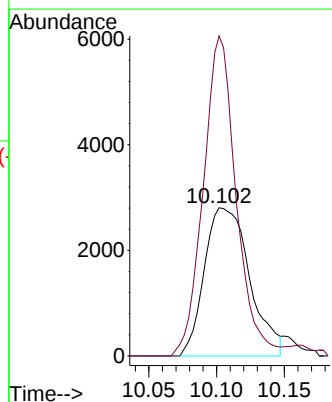
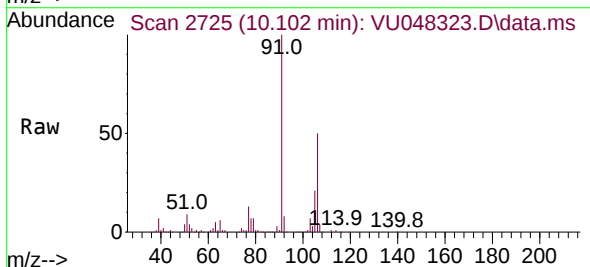
Instrument :
MSVOA_U
ClientSampleId :
EXET7

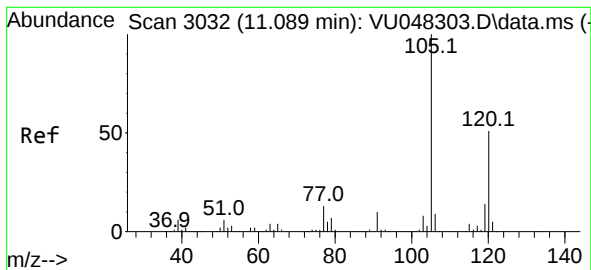
Tgt Ion:106 Resp: 69247
Ion Ratio Lower Upper
106 100
91 198.8 145.3 269.8



#55
Styrene
Concen: 0.707 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. -0.013 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

Tgt Ion:104 Resp: 6527
Ion Ratio Lower Upper
104 100
78 216.0 30.3 56.3#





#62

1,3,5-Trimethylbenzene

Concen: 1.627 ug/L

RT: 11.089 min Scan# 3032

Delta R.T. 0.000 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

Instrument :

MSVOA_U

ClientSampleId :

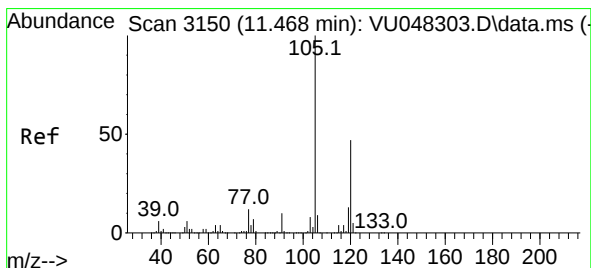
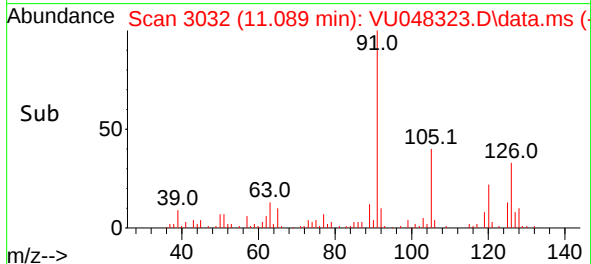
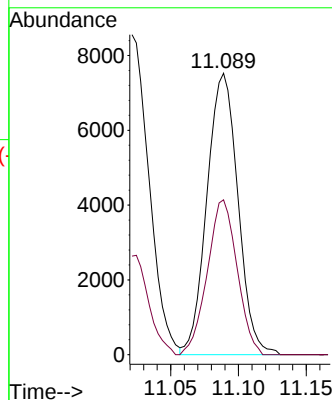
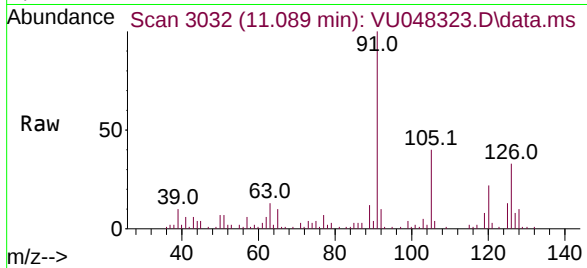
EXET7

Tgt Ion:105 Resp: 11974

Ion Ratio Lower Upper

105 100

120 52.8 40.7 61.1



#63

1,2,4-Trimethylbenzene

Concen: 3.790 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. 0.000 min

Lab File: VU048323.D

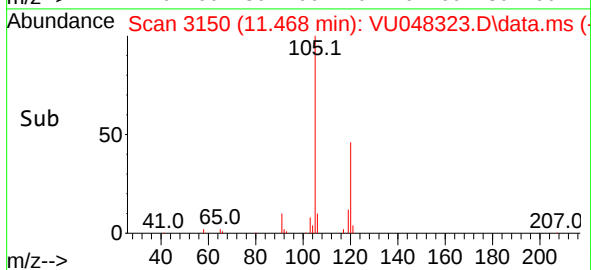
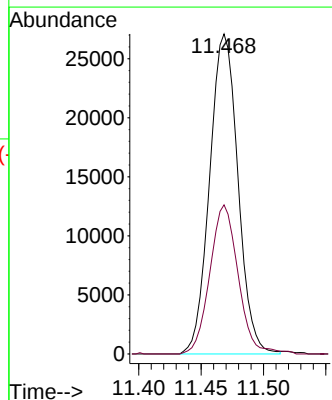
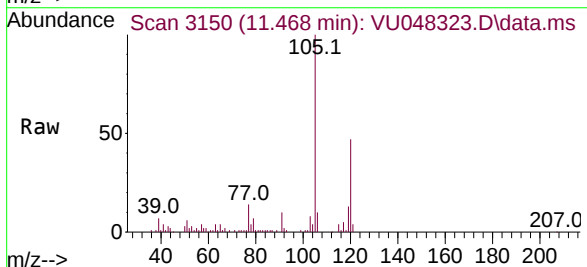
Acq: 27 Apr 2022 18:33

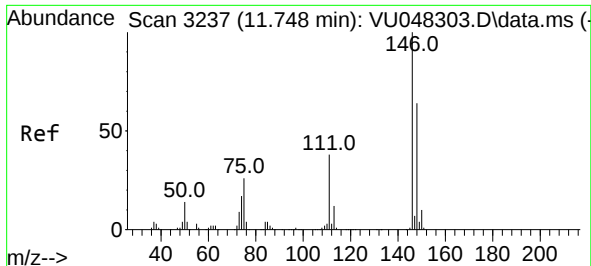
Tgt Ion:105 Resp: 42881

Ion Ratio Lower Upper

105 100

120 46.7 38.0 57.0

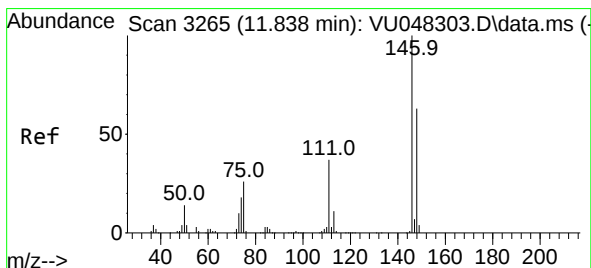
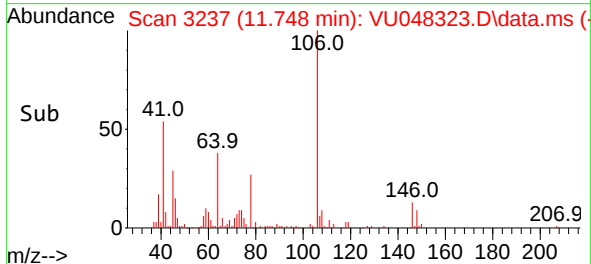
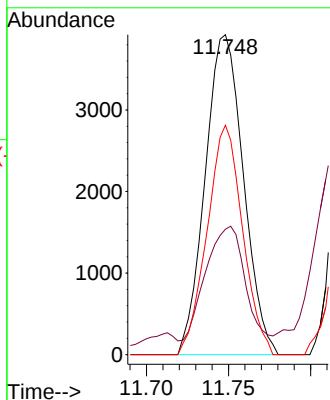
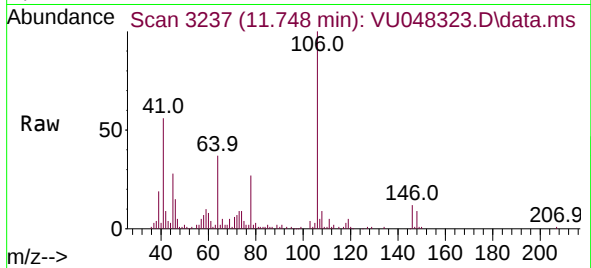




#64
1,3-Dichlorobenzene
Concen: 0.811 ug/L
RT: 11.748 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

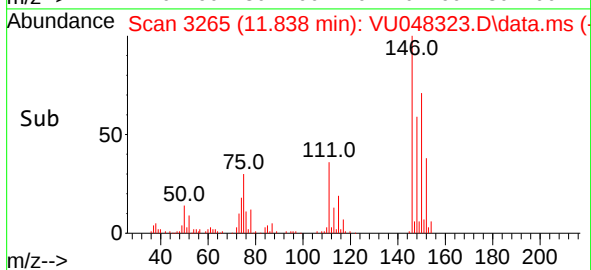
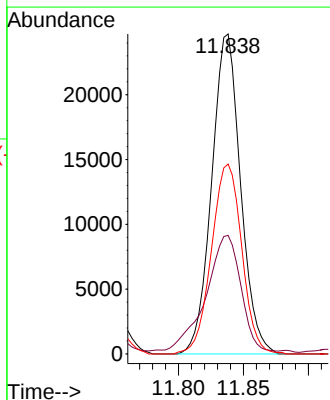
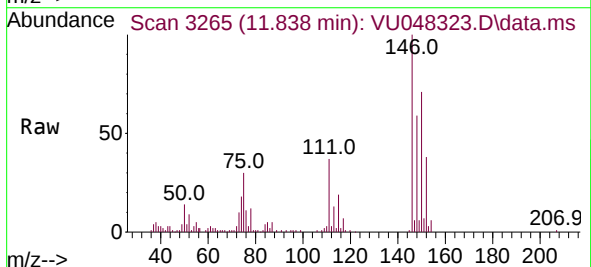
Instrument :
MSVOA_U
ClientSampleId :
EXET7

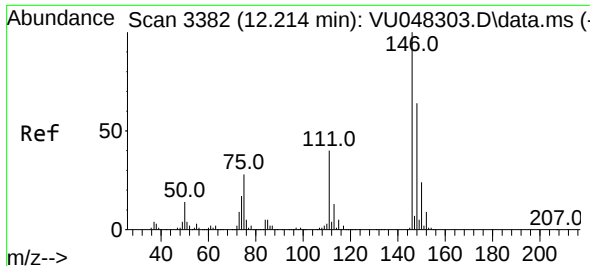
Tgt Ion:146 Resp: 6351
Ion Ratio Lower Upper
146 100
111 39.2 26.7 49.7
148 71.7 44.9 83.5



#65
1,4-Dichlorobenzene
Concen: 4.776 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU048323.D
Acq: 27 Apr 2022 18:33

Tgt Ion:146 Resp: 38166
Ion Ratio Lower Upper
146 100
111 37.1 25.9 48.1
148 59.4 45.1 83.7





#67

1,2-Dichlorobenzene

Concen: 17.519 ug/L

RT: 12.214 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

Instrument :

MSVOA_U

ClientSampleId :

EXET7

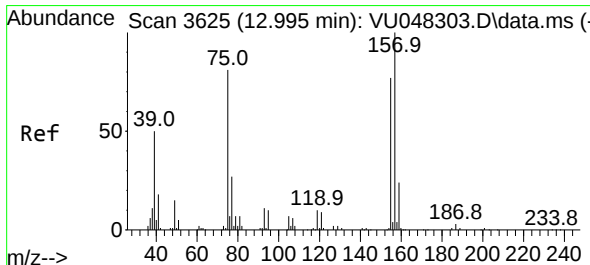
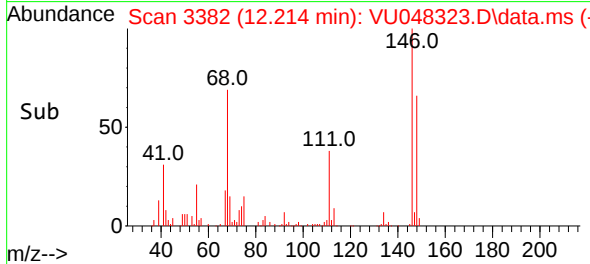
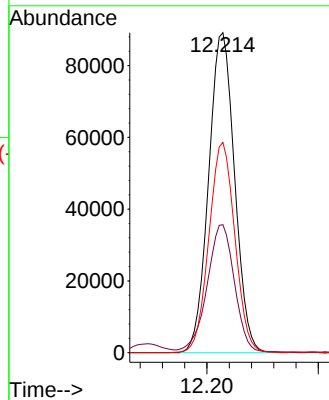
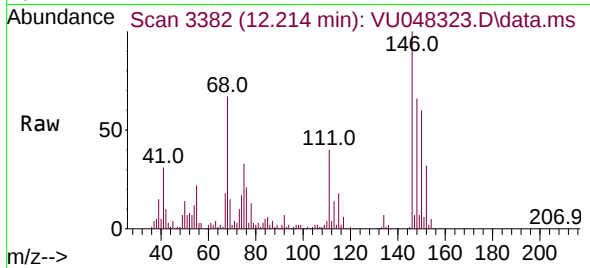
Tgt Ion:146 Resp: 144453

Ion Ratio Lower Upper

146 100

111 40.0 31.7 47.5

148 65.7 50.9 76.3



#68

1,2-Dibromo-3-chloropropane

Concen: 43.266 ug/L

RT: 12.967 min Scan# 3616

Delta R.T. -0.029 min

Lab File: VU048323.D

Acq: 27 Apr 2022 18:33

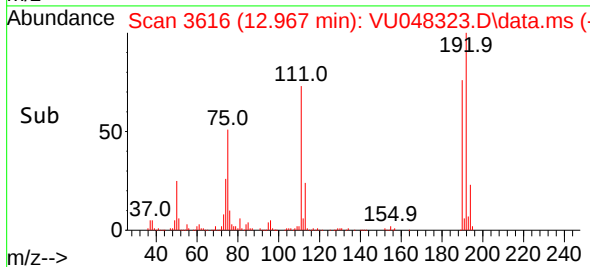
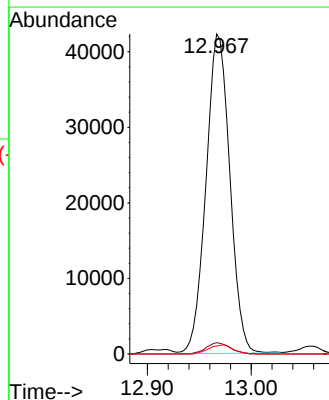
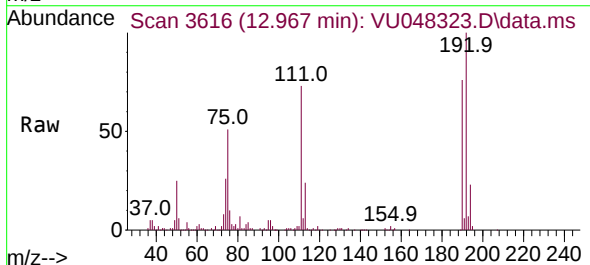
Tgt Ion: 75 Resp: 67278

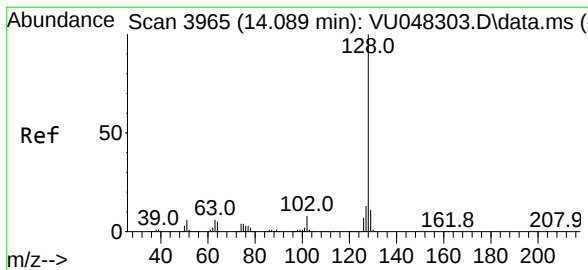
Ion Ratio Lower Upper

75 100

155 3.5 71.8 107.6#

157 2.5 93.4 140.2#





#71

Naphthalene

Concen: 2.151 ug/L

RT: 14.089 min Scan# 3965

Delta R.T. 0.000 min

Lab File: VU048323.D

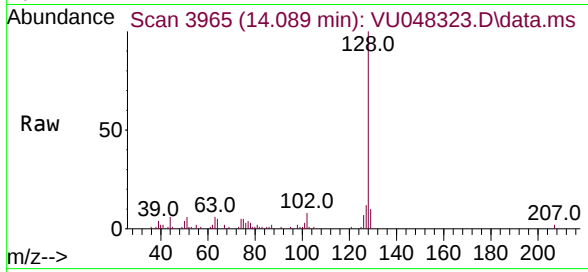
Acq: 27 Apr 2022 18:33

Instrument :

MSVOA_U

ClientSampleId :

EXET7



Tgt Ion:128 Resp: 28287

Ion Ratio Lower Upper

128 100

127 12.0 10.4 15.6

129 11.3 8.7 13.1

