

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U042722\
 Data File : U048321.D
 Acq On : 27 Apr 2022 17:46
 Operator : SY/MD
 Sample : N2587-09
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXET5

Quant Time: Apr 28 04:39:51 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	6.250	114	393122	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.424	117	468285	50.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	11.813	152	275225	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.598	65	158589	43.869	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.740%
7) Chloroethane-d5	1.894	69	131064	51.650	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	103.300%
11) 1,1-Dichloroethene-d2	2.562	63	200246	34.571	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.140%
21) 2-Butanone-d5	4.623	46	362664	117.622	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	117.620%
24) Chloroform-d	5.061	84	286892	43.753	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.500%
26) 1,2-Dichloroethane-d4	5.704	65	181669	46.695	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.400%
32) Benzene-d6	5.729	84	626645	42.430	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.860%
36) 1,2-Dichloropropane-d6	6.694	67	200153	40.992	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	81.980%
41) Toluene-d8	7.900	98	617122	46.098	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.200%
43) trans-1,3-Dichloroprop...	8.189	79	105236	48.844	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.680%
47) 2-Hexanone-d5	8.755	63	1553	0.590	ug/L	0.12
Spiked Amount	100.000	Range	45 - 130	Recovery	=	0.590%#
56) 1,1,2,2-Tetrachloroeth...	10.761	84	381487	44.549	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.100%
66) 1,2-Dichlorobenzene-d4	12.195	152	300532	48.541	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.080%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.604	62	49907	14.566	ug/L #	1
8) Chloroethane	1.842	64	4630	2.390	ug/L #	55
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	2015	0.680	ug/L #	18
12) 1,1-Dichloroethene	2.569	96	3061	1.184	ug/L #	1
13) Acetone	2.623	43	941177	475.483	ug/L	100
14) Carbon disulfide	2.787	76	4632	0.735	ug/L	99
15) Methyl Acetate	2.955	43	8144	2.073	ug/L	90
16) Methylene chloride	3.045	84	224017	67.218	ug/L	95
19) 1,1-Dichloroethane	3.868	63	211436	37.652	ug/L	99
20) cis-1,2-Dichloroethene	4.665	96	23550	7.275	ug/L #	99
22) 2-Butanone	4.707	43	102321	34.957	ug/L	96
27) 1,2-Dichloroethane	5.784	62	497925	119.045	ug/L #	76
29) Cyclohexane	5.385	56	22847	5.164	ug/L #	97
34) Trichloroethene	6.543	95	61796	18.184	ug/L	98
35) Methylcyclohexane	6.781	83	28050	5.879	ug/L #	1
37) 1,2-Dichloropropane	6.794	63	17319	4.390	ug/L	98
40) 4-Methyl-2-pentanone	7.806	43	108132	18.174	ug/L	98
42) Toluene	7.974	91	2471955	169.819	ug/L	100
44) trans-1,3-Dichloropropene	8.186	75	4166	0.769	ug/L #	58

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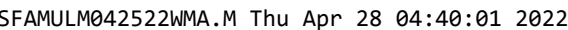
Quant Time: Apr 28 04:39:51 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM042522WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Apr 28 04:33:44 2022
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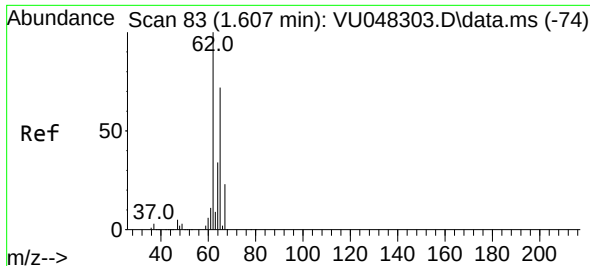
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

48) 2-Hexanone	8.694	43	317857	63.976	ug/L	94
51) Chlorobenzene	9.453	112	11713360	1116.367	ug/L	97
52) Ethylbenzene	9.575	91	13469	0.893	ug/L	95
53) m,p-Xylene	9.697	106	13027	2.190	ug/L	98
54) o-Xylene	10.105	106	13038	2.176	ug/L	85
57) 1,1,2,2-Tetrachloroethane	10.784	83	8749	1.071	ug/L #	1
60) 1,2,3-Trichloropropane	10.787	75	408141	63.567	ug/L #	1
63) 1,2,4-Trimethylbenzene	11.472	105	13015	1.044	ug/L	94
65) 1,4-Dichlorobenzene	11.838	146	18206	2.067	ug/L	98
67) 1,2-Dichlorobenzene	12.215	146	169836	18.687	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.970	75	2209144	1288.876	ug/L #	1

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

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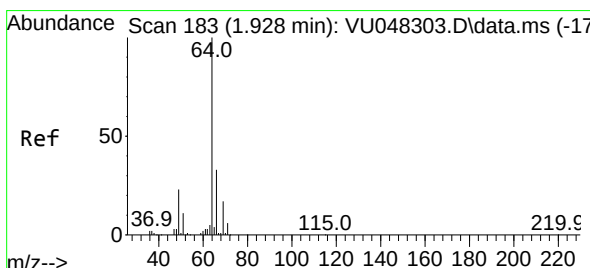
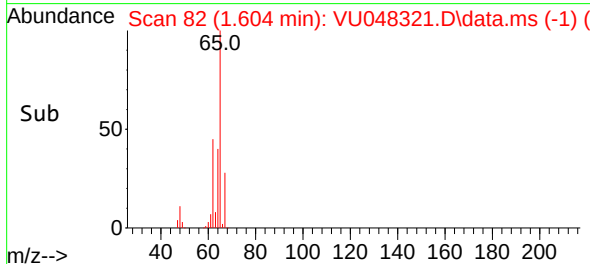
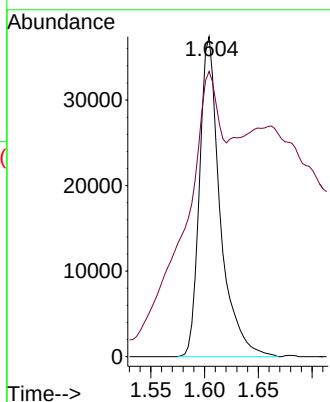
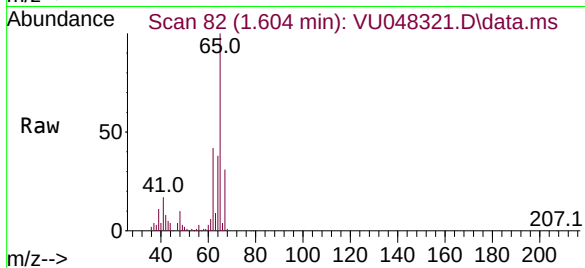




#5
 Vinyl chloride
 Concen: 14.566 ug/L
 RT: 1.604 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VU048321.D
 Acq: 27 Apr 2022 17:46

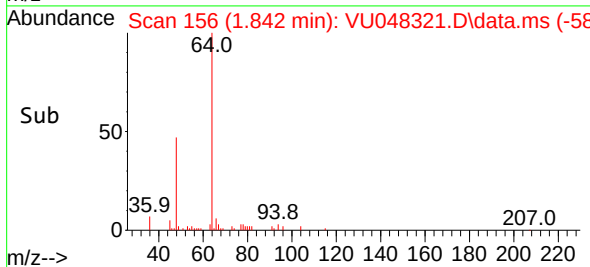
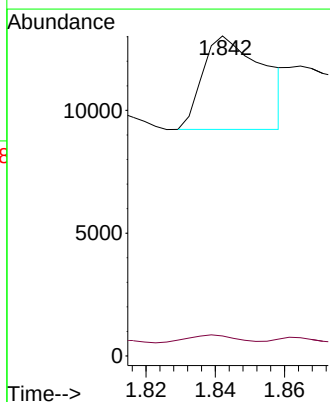
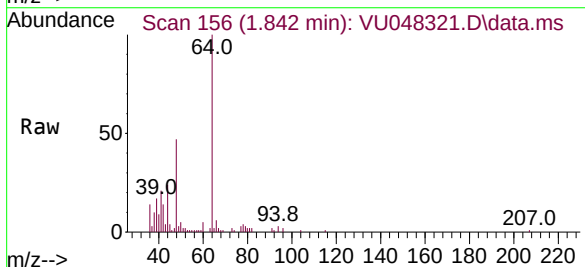
Instrument :
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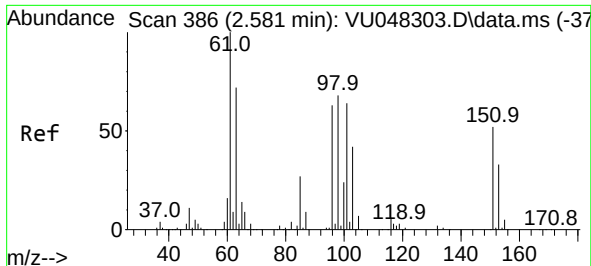
Tgt Ion: 62 Resp: 49907
 Ion Ratio Lower Upper
 62 100
 64 89.2 22.5 41.7#



#8
 Chloroethane
 Concen: 2.390 ug/L
 RT: 1.842 min Scan# 156
 Delta R.T. -0.086 min
 Lab File: VU048321.D
 Acq: 27 Apr 2022 17:46

Tgt Ion: 64 Resp: 4630
 Ion Ratio Lower Upper
 64 100
 66 6.3 21.9 40.7#

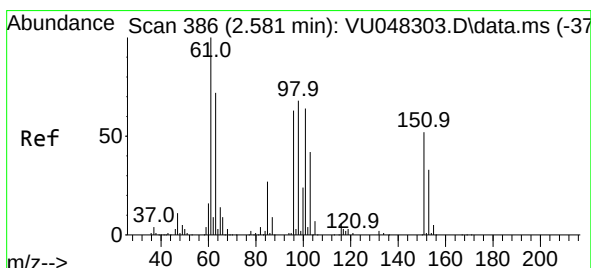
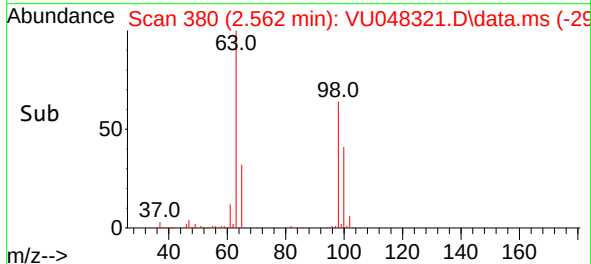
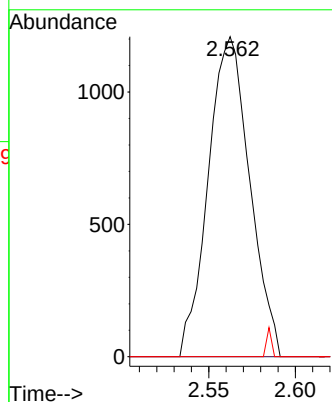
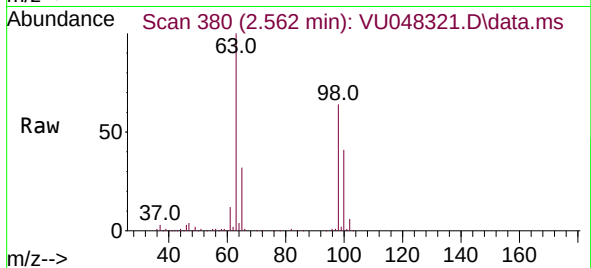




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.680 ug/L
 RT: 2.562 min Scan# 380
 Delta R.T. -0.019 min
 Lab File: VU048321.D
 Acq: 27 Apr 2022 17:46

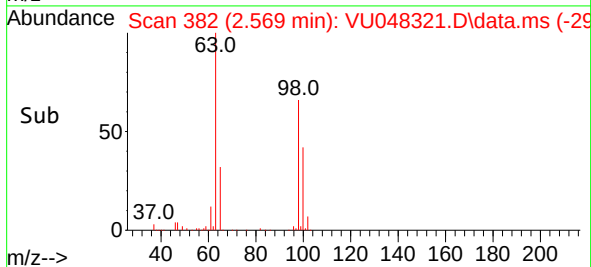
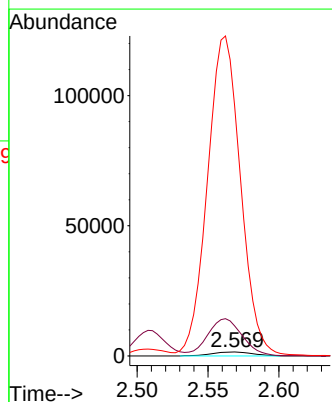
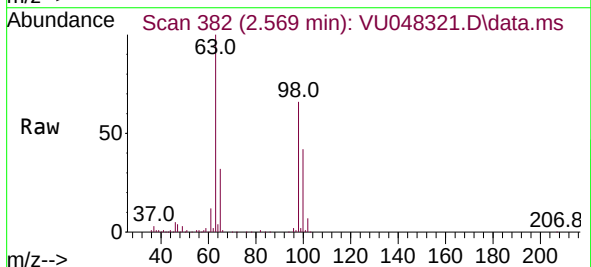
Instrument :
 MSVOA_U
 ClientSampleId :
 EXET5

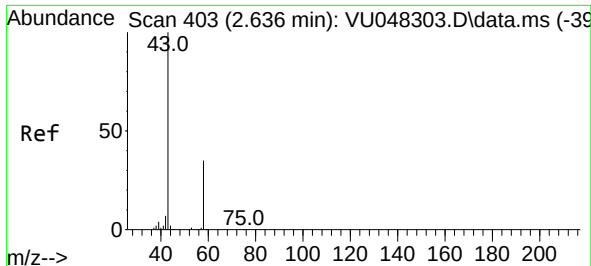
Tgt Ion: 101 Resp: 2015
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.6 48.8#
 151 0.0 64.1 96.1#



#12
 1,1-Dichloroethene
 Concen: 1.184 ug/L
 RT: 2.569 min Scan# 382
 Delta R.T. -0.012 min
 Lab File: VU048321.D
 Acq: 27 Apr 2022 17:46

Tgt Ion: 96 Resp: 3061
 Ion Ratio Lower Upper
 96 100
 61 767.2 107.9 200.3#
 63 6372.4 80.3 149.1#





#13

Acetone

Concen: 475.483 ug/L

RT: 2.623 min Scan# 399

Delta R.T. -0.012 min

Lab File: VU048321.D

Acq: 27 Apr 2022 17:46

Instrument :

MSVOA_U

ClientSampleId :

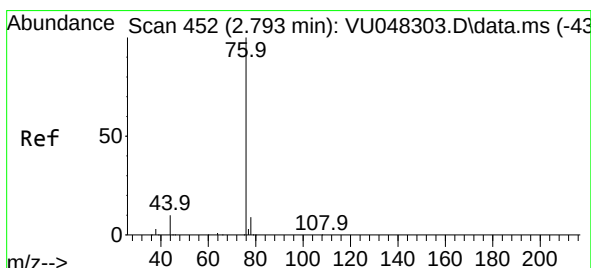
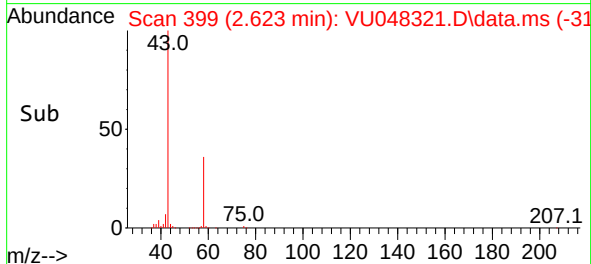
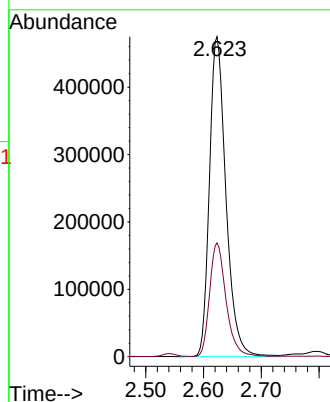
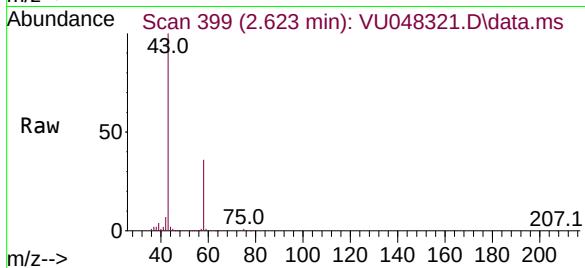
EXET5

Tgt Ion: 43 Resp: 941177

Ion Ratio Lower Upper

43 100

58 35.3 0.0 71.2



#14

Carbon disulfide

Concen: 0.735 ug/L

RT: 2.787 min Scan# 450

Delta R.T. -0.006 min

Lab File: VU048321.D

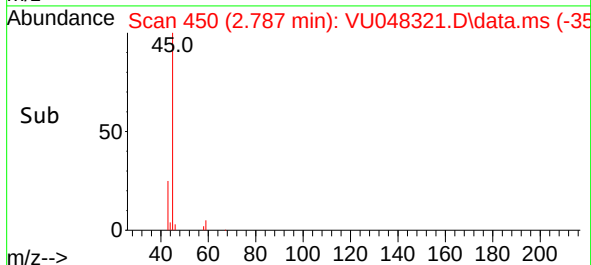
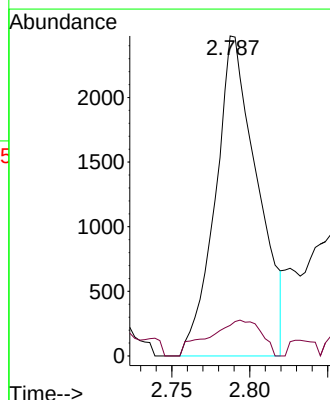
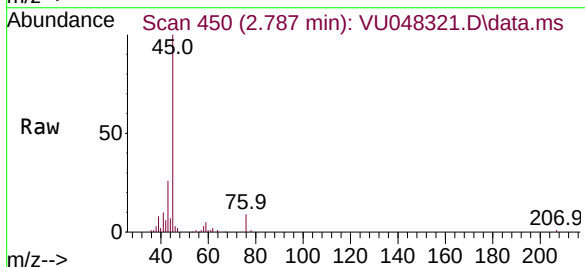
Acq: 27 Apr 2022 17:46

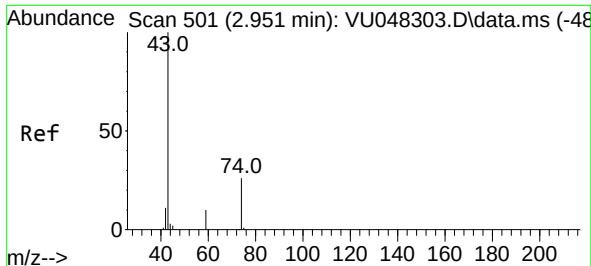
Tgt Ion: 76 Resp: 4632

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.2

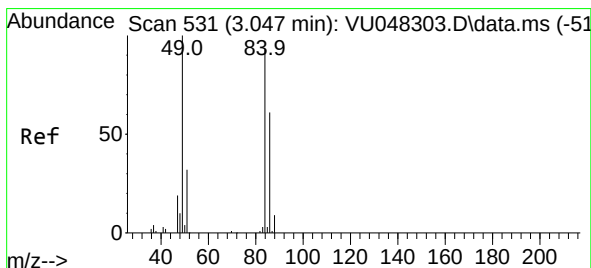
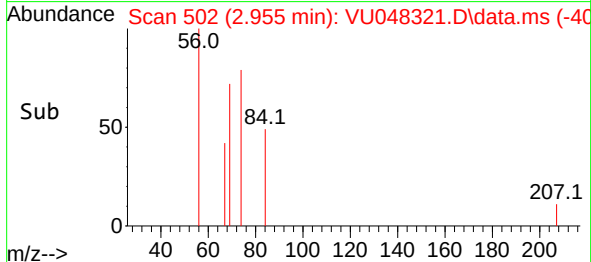
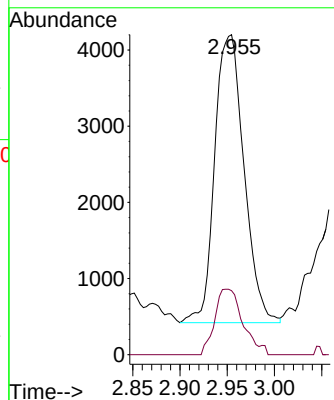
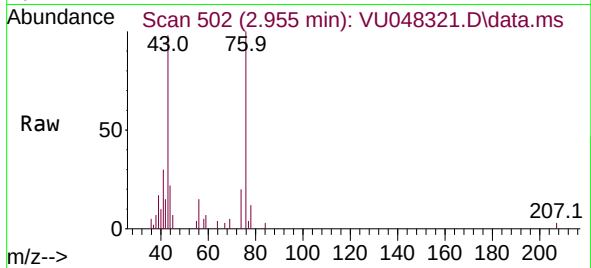




#15
Methyl Acetate
Concen: 2.073 ug/L
RT: 2.955 min Scan# 501
Delta R.T. 0.004 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

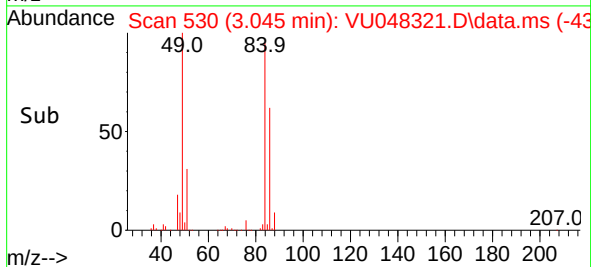
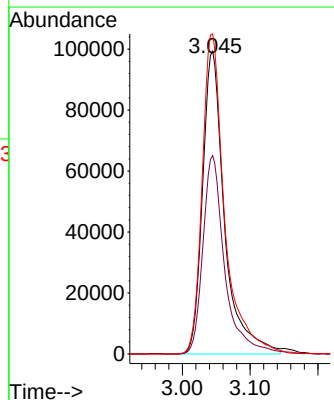
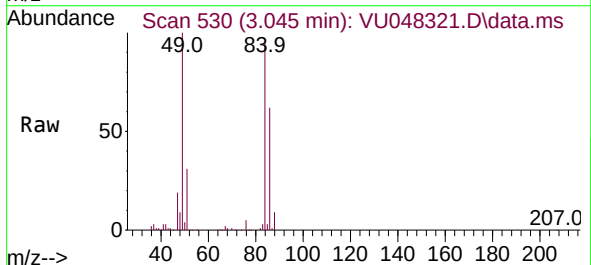
Instrument :
MSVOA_U
ClientSampleId :
EXET5

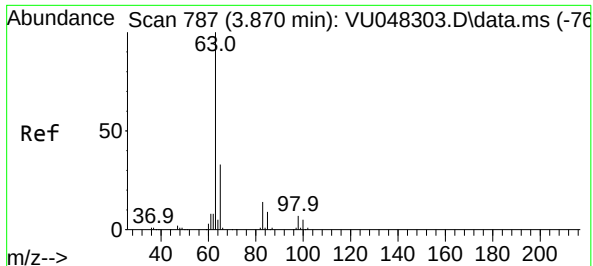
Tgt Ion: 43 Resp: 8144
Ion Ratio Lower Upper
43 100
74 21.2 21.0 31.6



#16
Methylene chloride
Concen: 67.218 ug/L
RT: 3.045 min Scan# 530
Delta R.T. -0.003 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

Tgt Ion: 84 Resp: 224017
Ion Ratio Lower Upper
84 100
86 65.6 45.4 84.2
49 105.7 79.2 147.0





#19

1,1-Dichloroethane

Concen: 37.652 ug/L

RT: 3.868 min Scan# 787

Delta R.T. -0.003 min

Lab File: VU048321.D

Acq: 27 Apr 2022 17:46

Instrument :

MSVOA_U

ClientSampleId :

EXET5

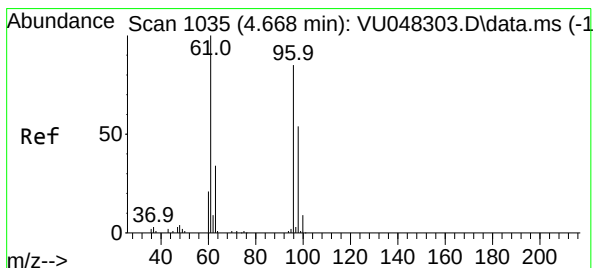
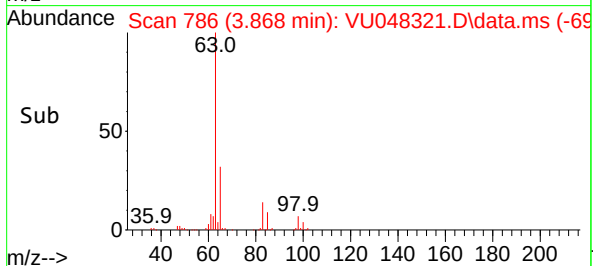
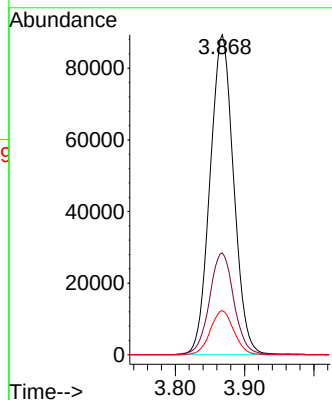
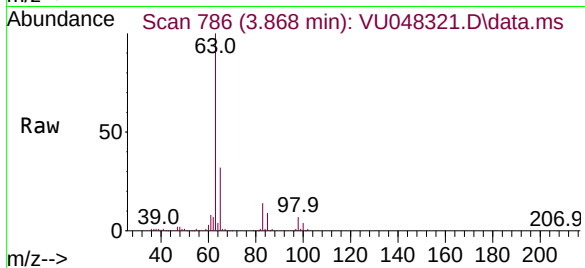
Tgt Ion: 63 Resp: 211436

Ion Ratio Lower Upper

63 100

65 31.8 22.0 40.8

83 13.8 8.8 16.4



#20

cis-1,2-Dichloroethene

Concen: 7.275 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.003 min

Lab File: VU048321.D

Acq: 27 Apr 2022 17:46

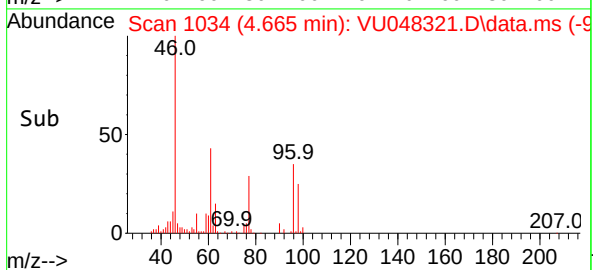
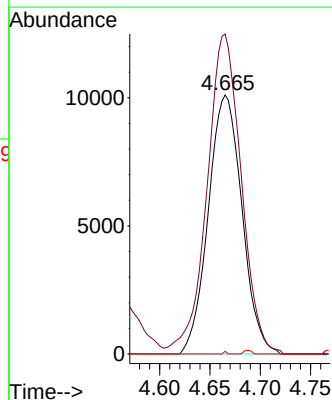
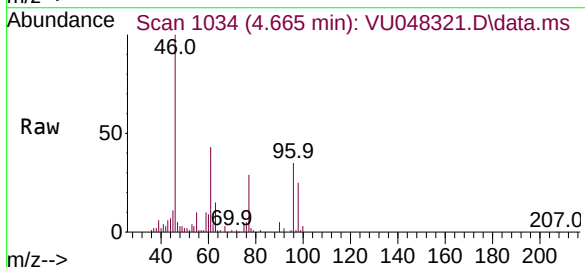
Tgt Ion: 96 Resp: 23550

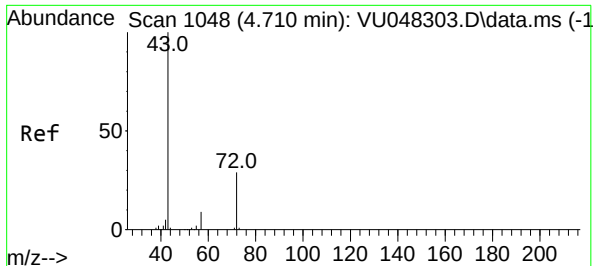
Ion Ratio Lower Upper

96 100

61 123.5 87.0 161.6

68 1.0 0.0 0.0#

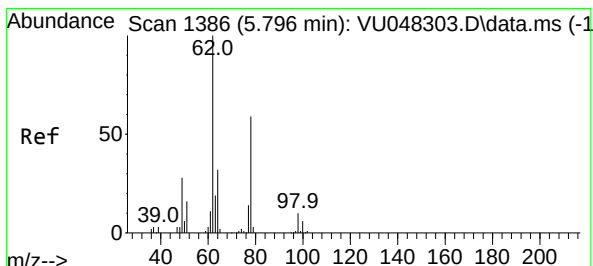
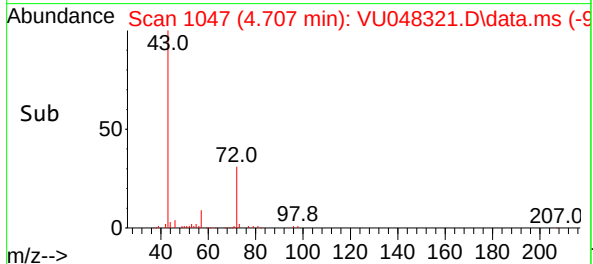
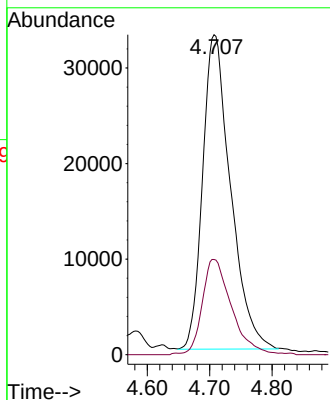
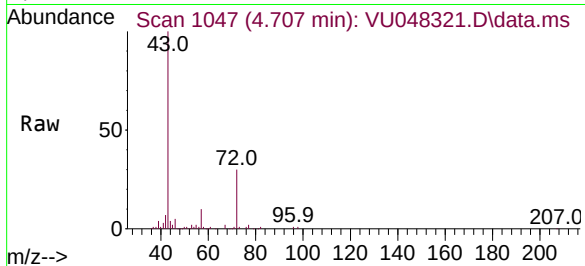




#22
2-Butanone
Concen: 34.957 ug/L
RT: 4.707 min Scan# 1047
Delta R.T. -0.003 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

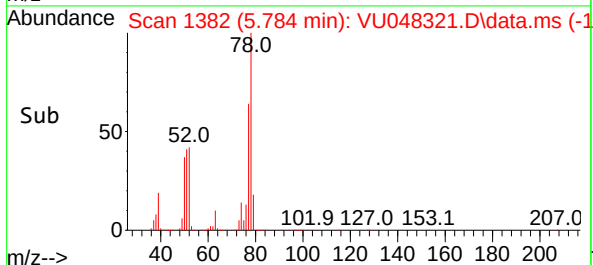
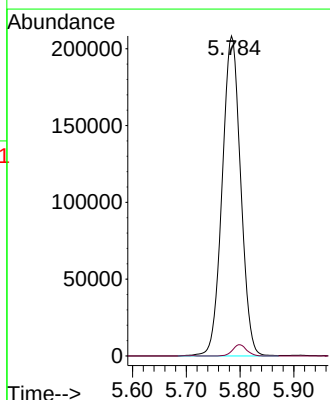
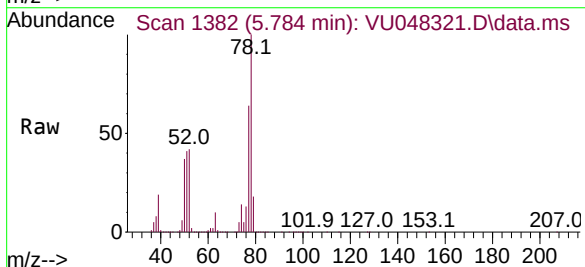
Instrument :
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EXET5

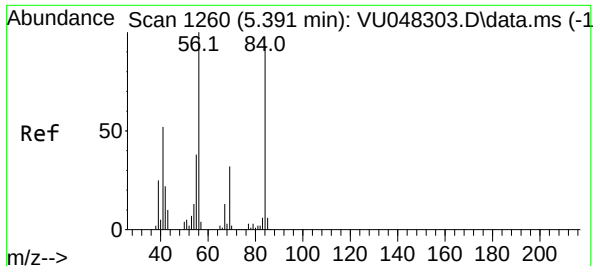
Tgt Ion: 43 Resp: 102321
Ion Ratio Lower Upper
43 100
72 31.6 14.6 43.8



#27
1,2-Dichloroethane
Concen: 119.045 ug/L
RT: 5.784 min Scan# 1382
Delta R.T. -0.012 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

Tgt Ion: 62 Resp: 497925
Ion Ratio Lower Upper
62 100
98 1.5 8.5 12.7#

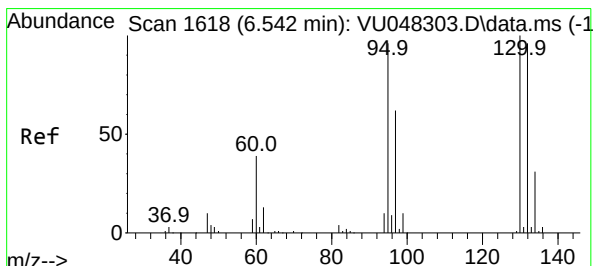
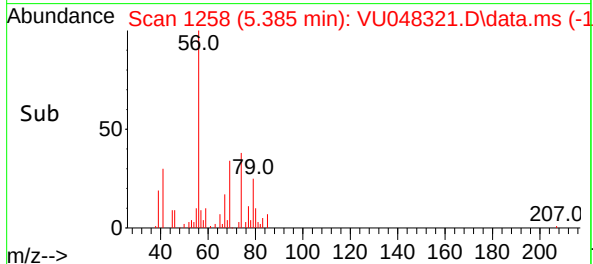
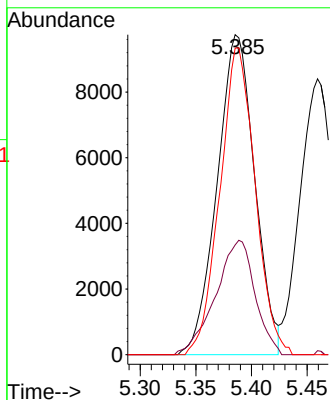
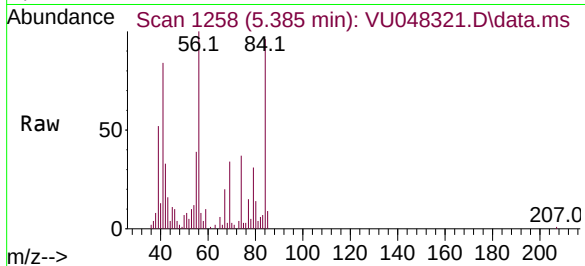




#29
Cyclohexane
Concen: 5.164 ug/L
RT: 5.385 min Scan# 11
Delta R.T. -0.006 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

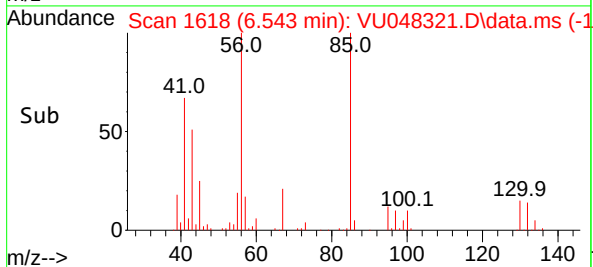
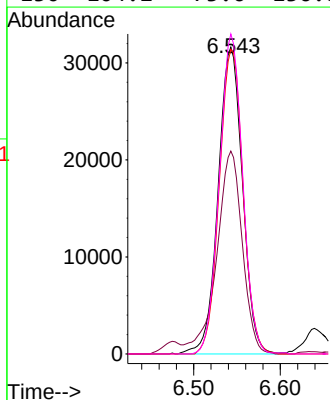
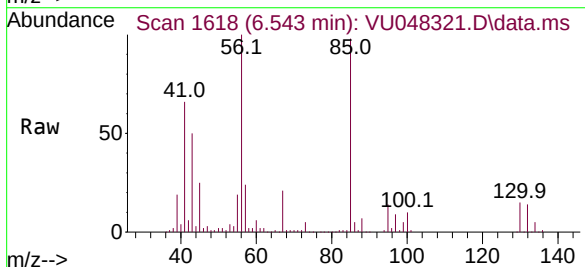
Instrument :
MSVOA_U
ClientSampleId :
EXET5

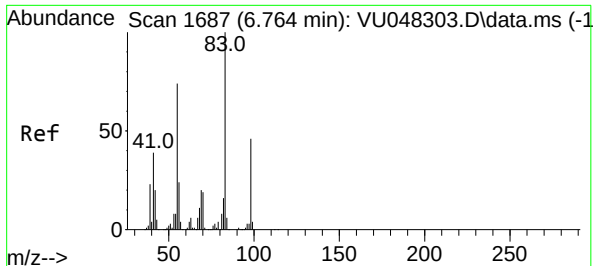
Tgt Ion: 56 Resp: 22847
Ion Ratio Lower Upper
56 100
69 37.5 24.2 36.4#
84 90.4 72.2 108.2



#34
Trichloroethene
Concen: 18.184 ug/L
RT: 6.543 min Scan# 1618
Delta R.T. 0.001 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

Tgt Ion: 95 Resp: 61796
Ion Ratio Lower Upper
95 100
97 66.1 45.8 85.2
132 99.2 71.6 133.0
130 104.2 73.6 136.8

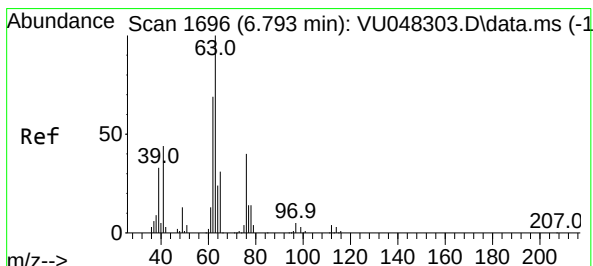
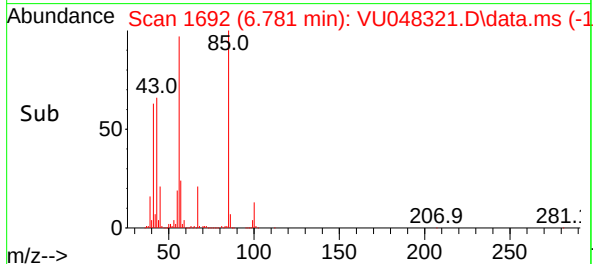
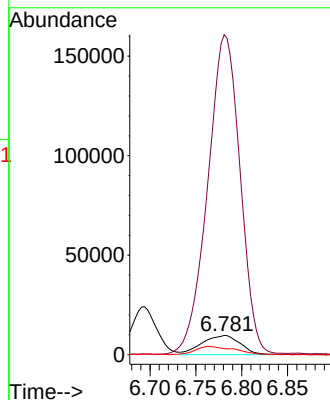
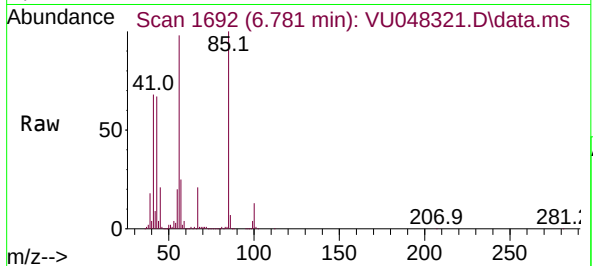




#35
Methylcyclohexane
Concen: 5.879 ug/L
RT: 6.781 min Scan# 1692
Delta R.T. 0.017 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

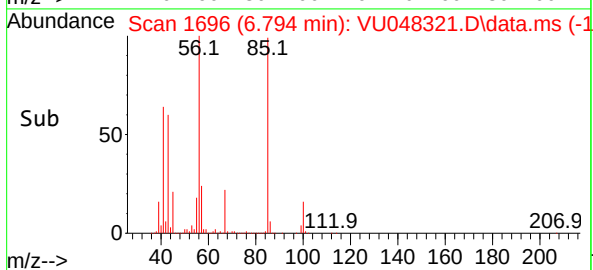
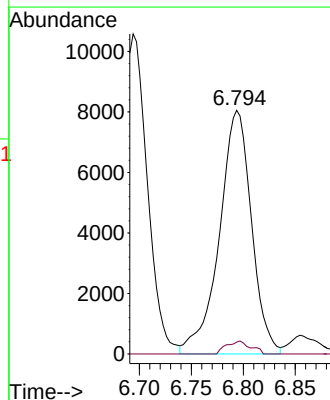
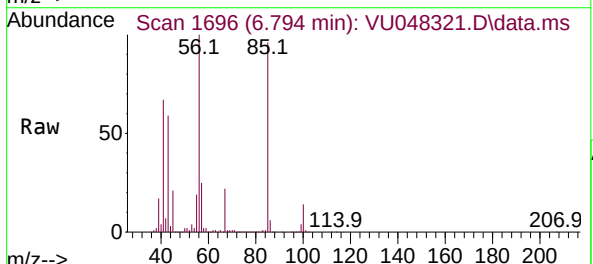
Instrument :
MSVOA_U
ClientSampleId :
EXET5

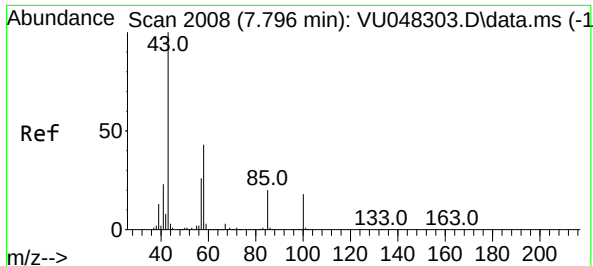
Tgt Ion: 83 Resp: 28050
Ion Ratio Lower Upper
83 100
55 1408.4 59.4 89.2#
98 31.4 37.3 55.9#



#37
1,2-Dichloropropane
Concen: 4.390 ug/L
RT: 6.794 min Scan# 1696
Delta R.T. 0.001 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

Tgt Ion: 63 Resp: 17319
Ion Ratio Lower Upper
63 100
112 3.3 3.1 4.7





#40

4-Methyl-2-pentanone

Concen: 18.174 ug/L

RT: 7.806 min Scan# 2008

Delta R.T. 0.010 min

Lab File: VU048321.D

Acq: 27 Apr 2022 17:46

Instrument :

MSVOA_U

ClientSampleId :

EXET5

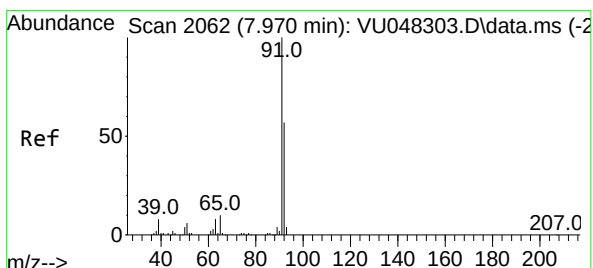
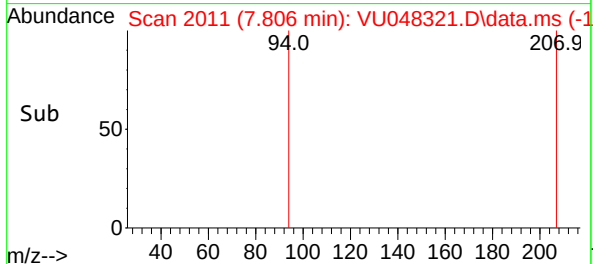
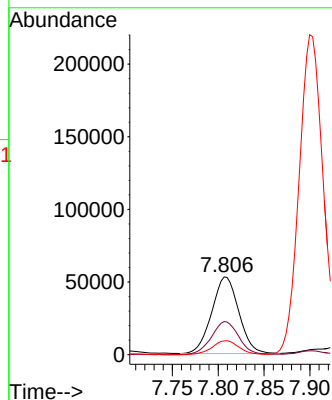
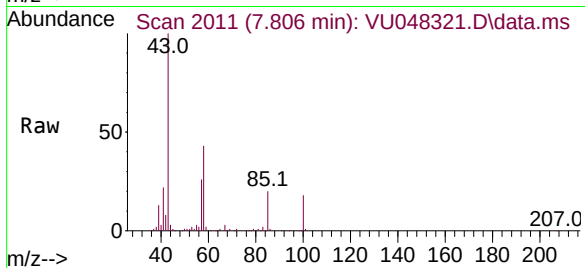
Tgt Ion: 43 Resp: 108132

Ion Ratio Lower Upper

43 100

58 43.9 34.4 51.6

100 18.2 13.6 20.4



#42

Toluene

Concen: 169.819 ug/L

RT: 7.974 min Scan# 2063

Delta R.T. 0.004 min

Lab File: VU048321.D

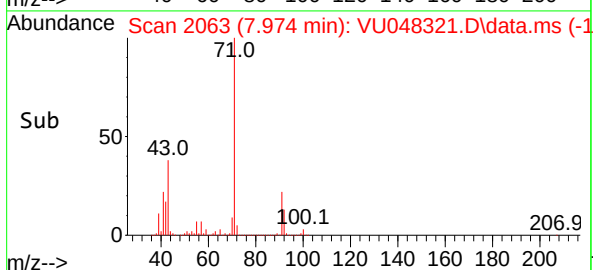
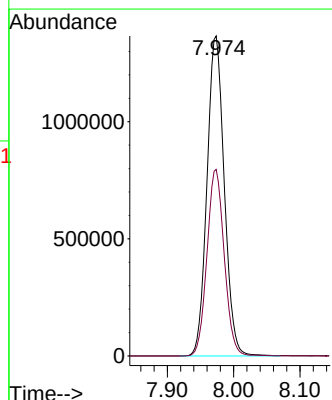
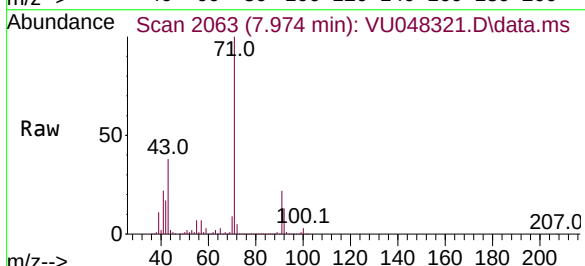
Acq: 27 Apr 2022 17:46

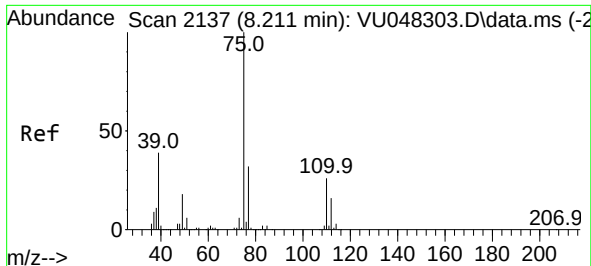
Tgt Ion: 91 Resp: 2471955

Ion Ratio Lower Upper

91 100

92 58.3 40.9 76.0

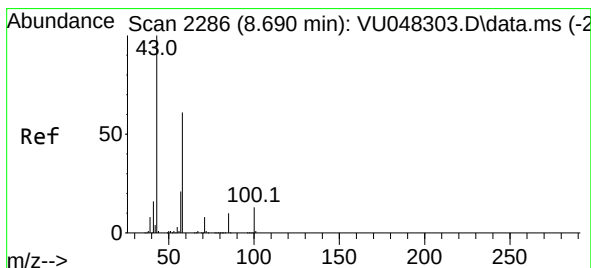
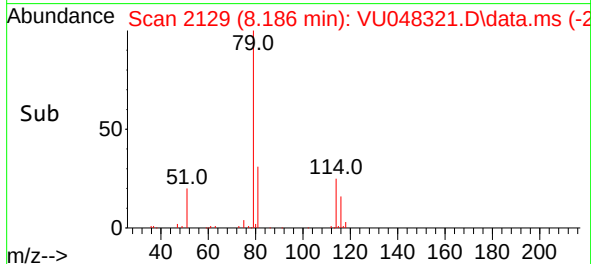
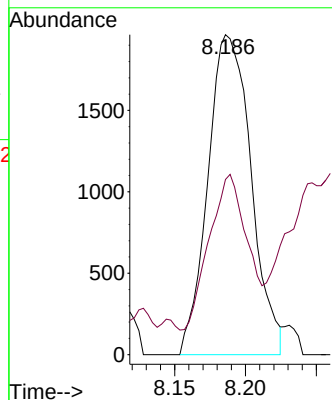
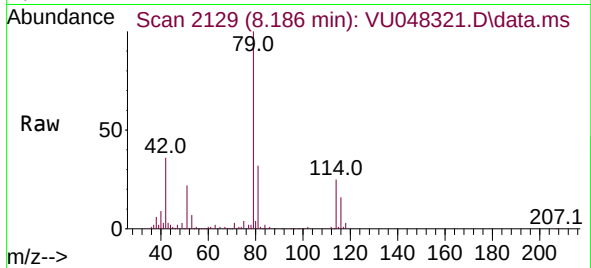




#44
trans-1,3-Dichloropropene
Concen: 0.769 ug/L
RT: 8.186 min Scan# 2137
Delta R.T. -0.025 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

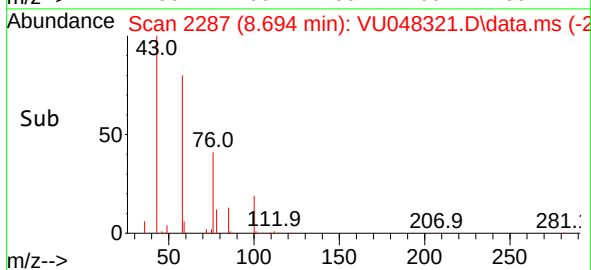
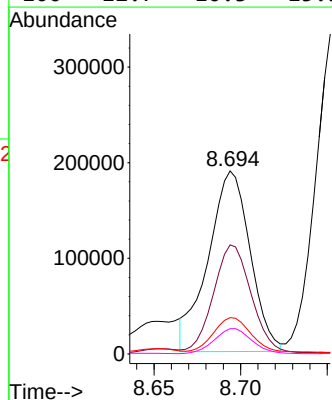
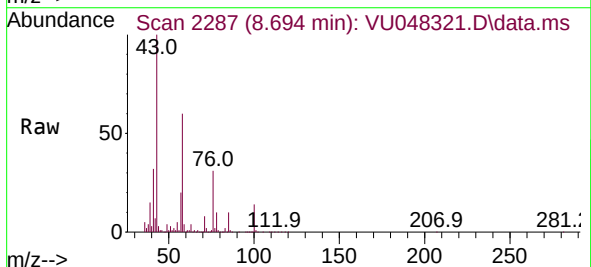
Instrument :
MSVOA_U
ClientSampleId :
EXET5

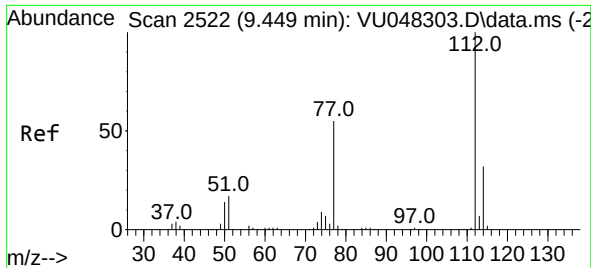
Tgt Ion: 75 Resp: 4166
Ion Ratio Lower Upper
75 100
77 54.8 22.1 41.1#



#48
2-Hexanone
Concen: 63.976 ug/L
RT: 8.694 min Scan# 2287
Delta R.T. 0.004 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

Tgt Ion: 43 Resp: 317857
Ion Ratio Lower Upper
43 100
58 53.6 48.1 72.1
57 18.9 16.2 24.4
100 12.7 10.3 15.5

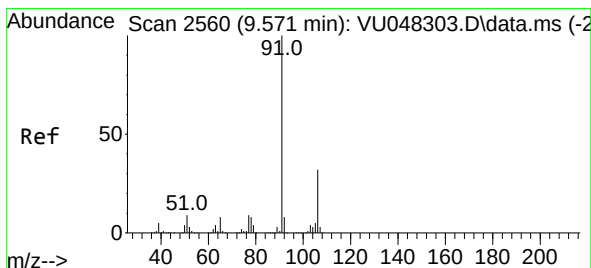
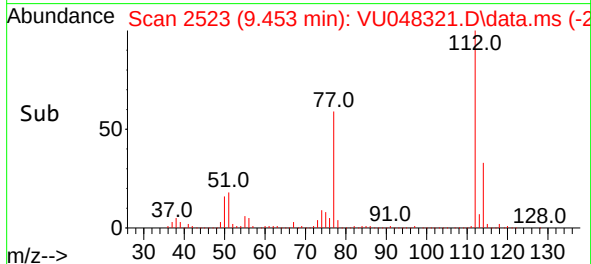
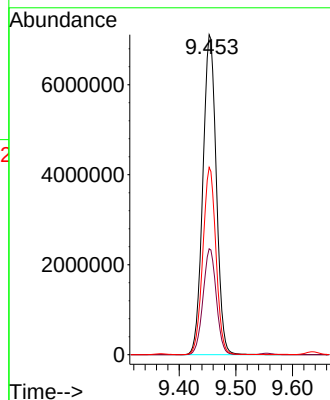
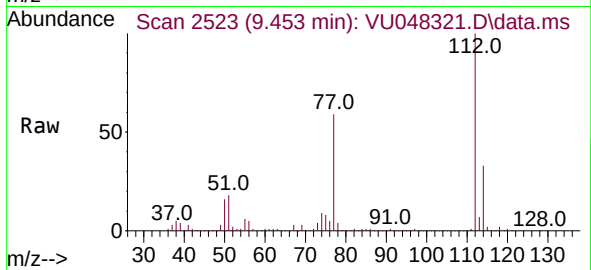




#51
Chlorobenzene
Concen: 1116.367 ug/L
RT: 9.453 min Scan# 2522
Delta R.T. 0.004 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

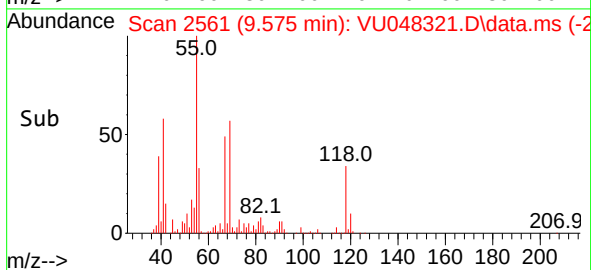
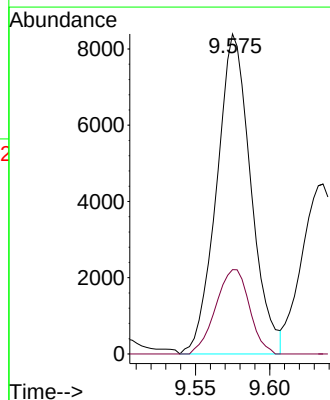
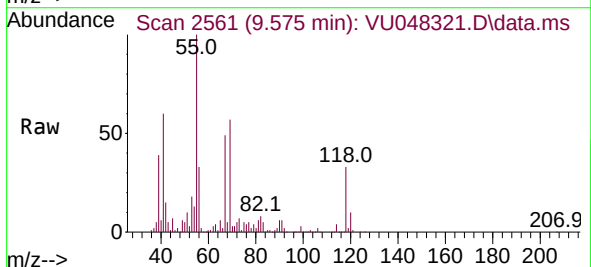
Instrument :
MSVOA_U
ClientSampleId :
EXET5

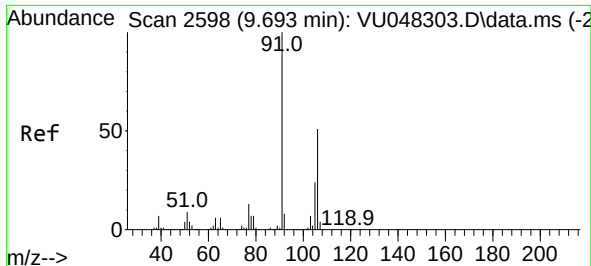
Tgt Ion:112 Resp:11713360
Ion Ratio Lower Upper
112 100
114 33.1 22.7 42.1
77 58.6 44.3 66.5



#52
Ethylbenzene
Concen: 0.893 ug/L
RT: 9.575 min Scan# 2561
Delta R.T. 0.004 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

Tgt Ion: 91 Resp: 13469
Ion Ratio Lower Upper
91 100
106 29.3 22.5 41.9

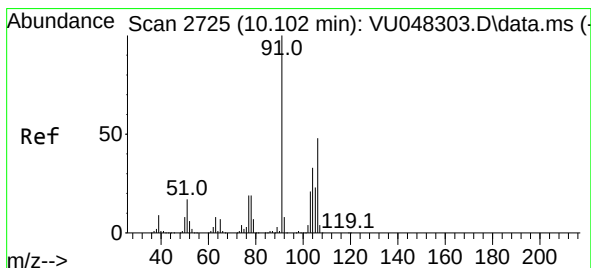
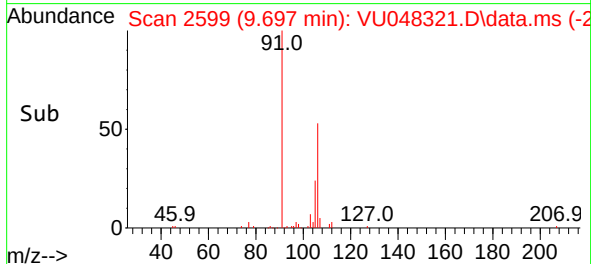
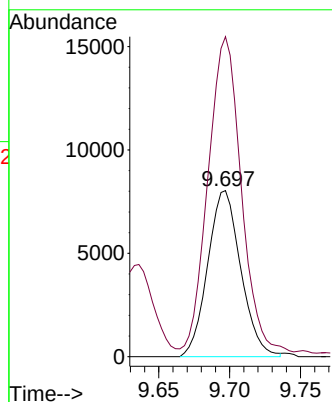
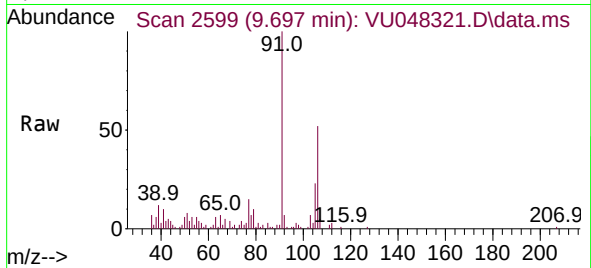




#53
m,p-Xylene
Concen: 2.190 ug/L
RT: 9.697 min Scan# 21
Delta R.T. 0.004 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

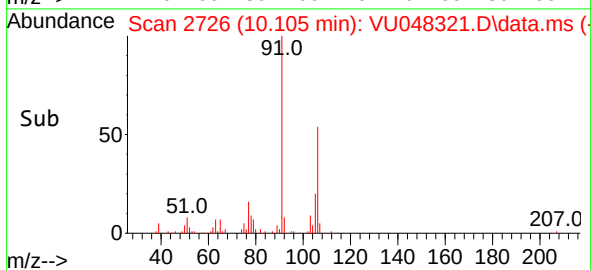
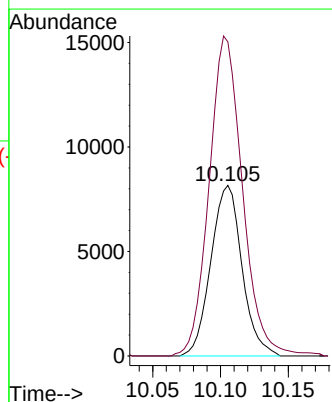
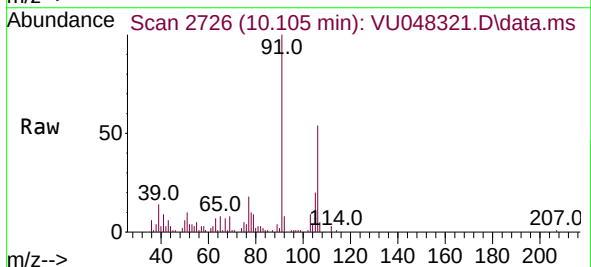
Instrument :
MSVOA_U
ClientSampleId :
EXET5

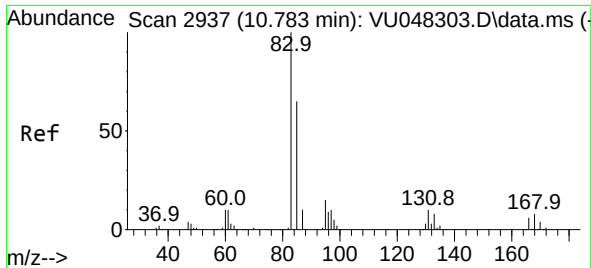
Tgt Ion:106 Resp: 13027
Ion Ratio Lower Upper
106 100
91 192.7 137.4 255.2



#54
o-Xylene
Concen: 2.176 ug/L
RT: 10.105 min Scan# 2726
Delta R.T. 0.004 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

Tgt Ion:106 Resp: 13038
Ion Ratio Lower Upper
106 100
91 184.2 145.3 269.8

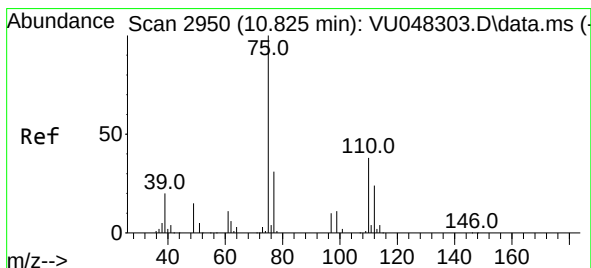
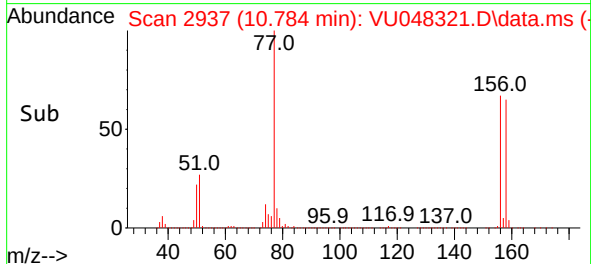
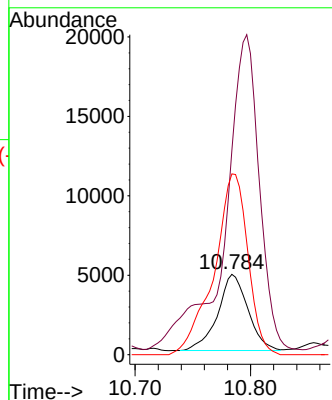
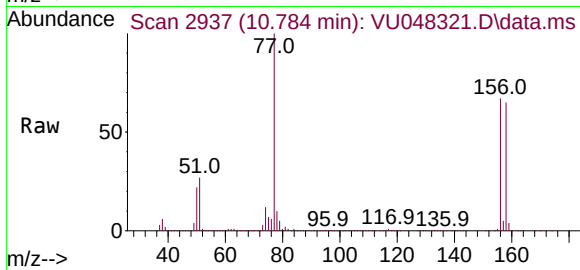




#57
 1,1,2,2-Tetrachloroethane
 Concen: 1.071 ug/L
 RT: 10.784 min Scan# 2937
 Delta R.T. 0.001 min
 Lab File: VU048321.D
 Acq: 27 Apr 2022 17:46

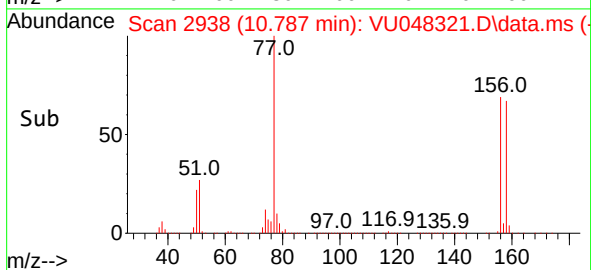
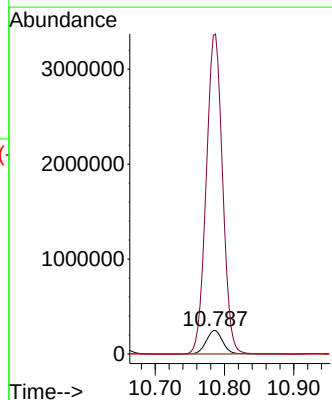
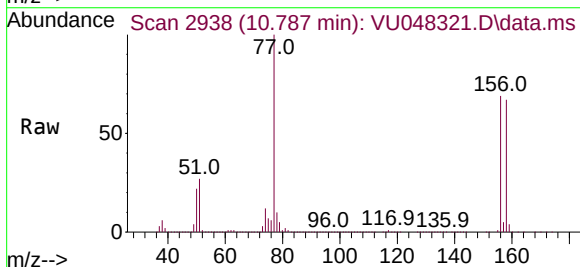
Instrument :
 MSVOA_U
 ClientSampleId :
 EXET5

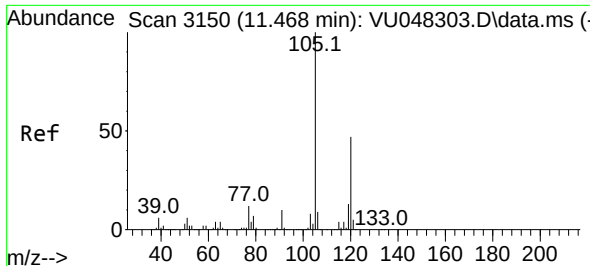
Tgt Ion: 83 Resp: 8749
 Ion Ratio Lower Upper
 83 100
 85 254.2 45.1 83.7#
 131 225.0 7.8 11.6#



#60
 1,2,3-Trichloropropane
 Concen: 63.567 ug/L
 RT: 10.787 min Scan# 2938
 Delta R.T. -0.038 min
 Lab File: VU048321.D
 Acq: 27 Apr 2022 17:46

Tgt Ion: 75 Resp: 408141
 Ion Ratio Lower Upper
 75 100
 77 1349.5 25.8 38.8#
 110 0.6 29.9 44.9#

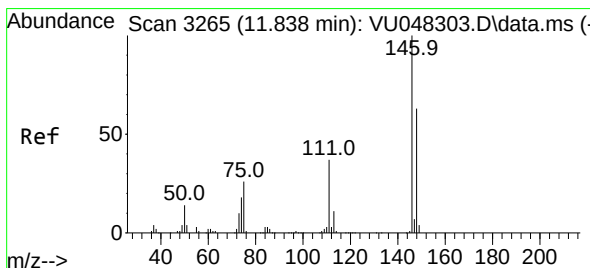
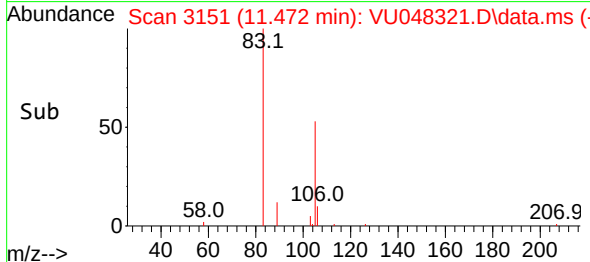
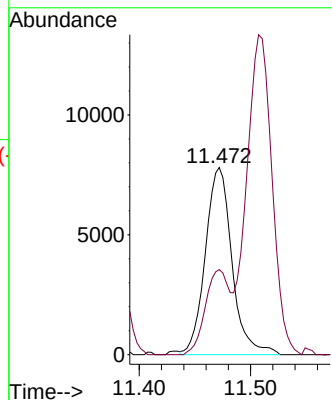
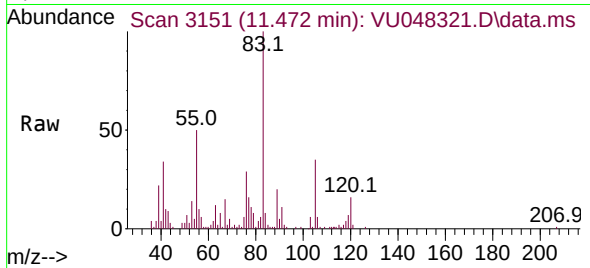




#63
1,2,4-Trimethylbenzene
Concen: 1.044 ug/L
RT: 11.472 min Scan# 3150
Delta R.T. 0.004 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

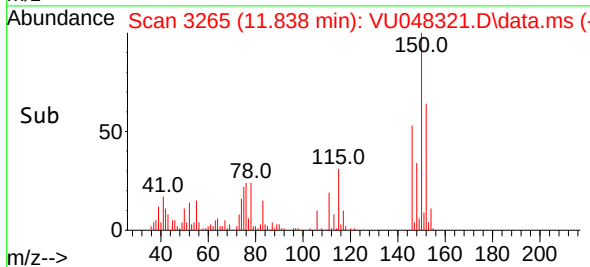
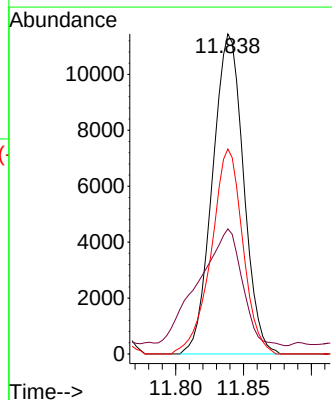
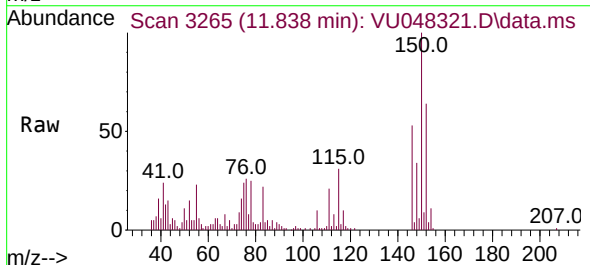
Instrument :
MSVOA_U
ClientSampleId :
EXET5

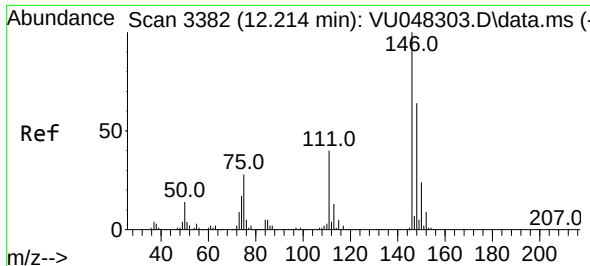
Tgt Ion:105 Resp: 13015
Ion Ratio Lower Upper
105 100
120 43.2 38.0 57.0



#65
1,4-Dichlorobenzene
Concen: 2.067 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. 0.001 min
Lab File: VU048321.D
Acq: 27 Apr 2022 17:46

Tgt Ion:146 Resp: 18206
Ion Ratio Lower Upper
146 100
111 39.1 25.9 48.1
148 64.0 45.1 83.7





#67

1,2-Dichlorobenzene

Concen: 18.687 ug/L

RT: 12.215 min Scan# 31

Delta R.T. 0.001 min

Lab File: VU048321.D

Acq: 27 Apr 2022 17:46

Instrument :

MSVOA_U

ClientSampleId :

EXET5

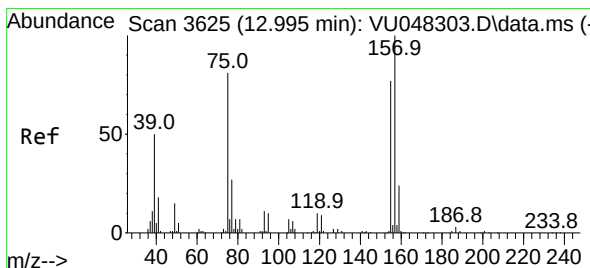
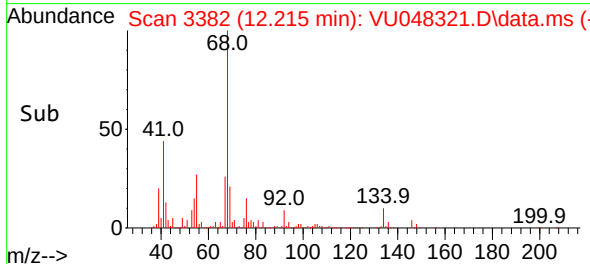
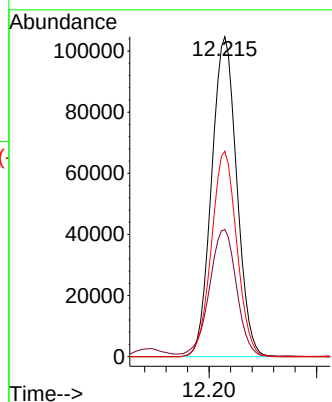
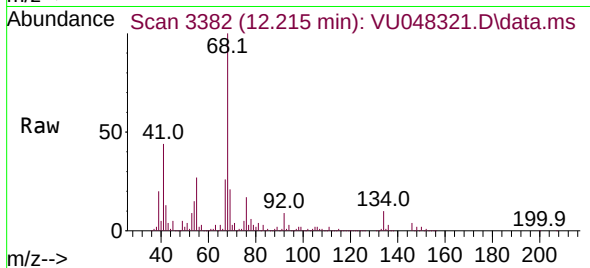
Tgt Ion:146 Resp: 169836

Ion Ratio Lower Upper

146 100

111 39.7 31.7 47.5

148 64.2 50.9 76.3



#68

1,2-Dibromo-3-chloropropane

Concen: 1288.876 ug/L

RT: 12.970 min Scan# 3617

Delta R.T. -0.025 min

Lab File: VU048321.D

Acq: 27 Apr 2022 17:46

Tgt Ion: 75 Resp: 2209144

Ion Ratio Lower Upper

75 100

155 3.0 71.8 107.6#

157 2.5 93.4 140.2#

