

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042722\
 Data File : VU048320.D
 Acq On : 27 Apr 2022 17:22
 Operator : SY/MD
 Sample : N2587-08
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EXET4

Quant Time: Apr 28 04:39:27 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	370936	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	425132	50.000	ug/L	# 0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	258201	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.600	65	145643	42.698	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.400%
7) Chloroethane-d5	1.899	69	123072	51.401	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.800%
11) 1,1-Dichloroethene-d2	2.565	63	192504	35.222	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	70.440%
21) 2-Butanone-d5	4.620	46	267898	92.084	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	92.080%
24) Chloroform-d	5.063	84	276193	44.641	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.280%
26) 1,2-Dichloroethane-d4	5.703	65	177546	48.365	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.740%
32) Benzene-d6	5.729	84	607585	45.315	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.620%
36) 1,2-Dichloropropane-d6	6.690	67	192579	43.445	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	86.880%
41) Toluene-d8	7.899	98	570196	46.916	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.840%
43) trans-1,3-Dichloroprop...	8.182	79	92593	47.339	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.680%
47) 2-Hexanone-d5	8.600	63	7549492	3156.706	ug/L	-0.04
Spiked Amount	100.000	Range	45 - 130	Recovery	=	3156.710%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	348097	44.776	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.560%
66) 1,2-Dichlorobenzene-d4	12.195	152	282779	48.685	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.380%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.607	62	1563	0.483	ug/L #	1
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	2010	0.719	ug/L #	18
12) 1,1-Dichloroethene	2.565	96	1956	0.802	ug/L #	1
13) Acetone	2.623	43	177633	95.108	ug/L	98
15) Methyl Acetate	2.948	43	9893	2.668	ug/L	93
16) Methylene chloride	3.044	84	21769	6.923	ug/L	95
19) 1,1-Dichloroethane	3.870	63	26841	5.066	ug/L	96
20) cis-1,2-Dichloroethene	4.668	96	8729	2.858	ug/L	91
22) 2-Butanone	4.710	43	20384	7.381	ug/L	93
27) 1,2-Dichloroethane	5.780	62	256445	64.978	ug/L #	75
29) Cyclohexane	5.385	56	30300	7.543	ug/L	99
35) Methylcyclohexane	6.767	83	19599	4.525	ug/L #	1
37) 1,2-Dichloropropane	6.790	63	7999	2.234	ug/L	100
39) cis-1,3-Dichloropropene	7.565	75	5405	1.073	ug/L #	43
40) 4-Methyl-2-pentanone	7.796	43	11382	2.107	ug/L	97
42) Toluene	7.970	91	1287006	97.389	ug/L	100
44) trans-1,3-Dichloropropene	8.182	75	3758	0.764	ug/L #	79
48) 2-Hexanone	8.687	43	153856	34.110	ug/L	97
52) Ethylbenzene	9.574	91	11033	0.806	ug/L	89

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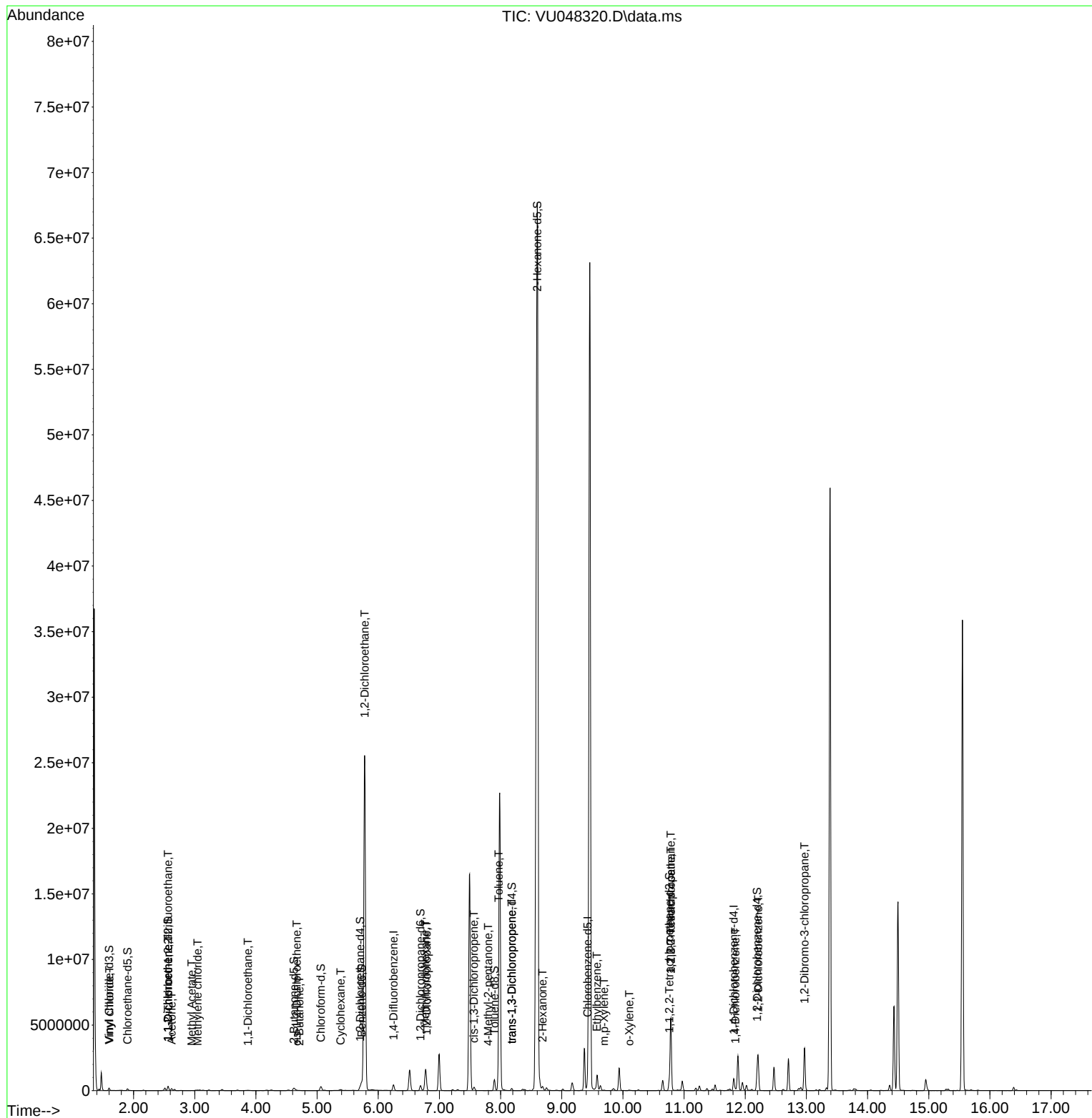
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.693	106	9948	1.842	ug/L	90
54) o-Xylene	10.102	106	10151	1.866	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.783	83	6160	0.831	ug/L #	1
60) 1,2,3-Trichloropropane	10.783	75	178127	29.572	ug/L #	1
65) 1,4-Dichlorobenzene	11.838	146	37037	4.482	ug/L	99
67) 1,2-Dichlorobenzene	12.211	146	335070	39.298	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.970	75	494545	307.555	ug/L #	1

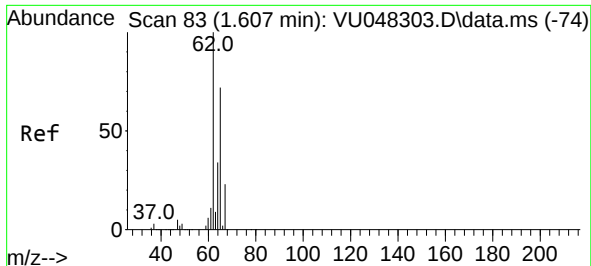
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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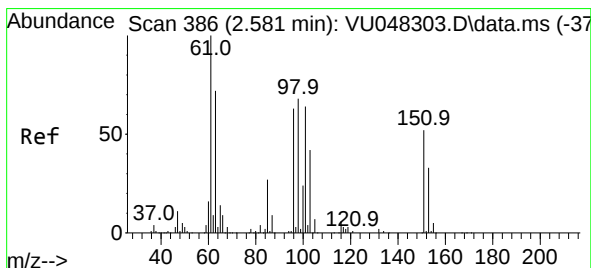
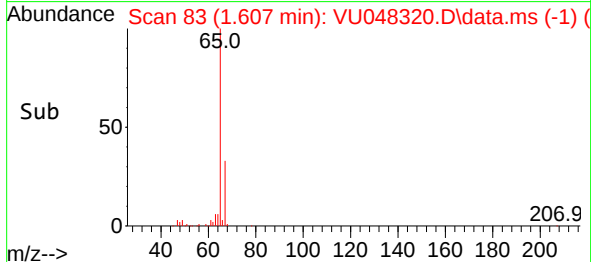
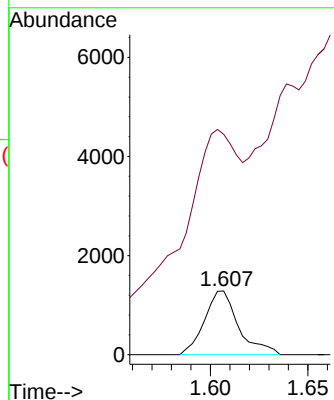
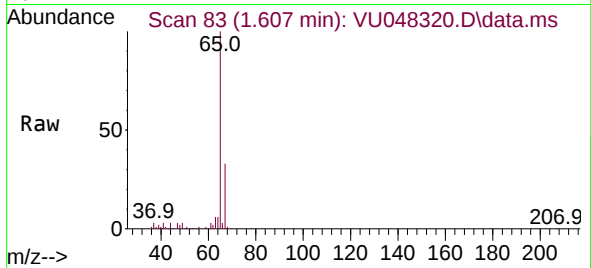




#5
 Vinyl chloride
 Concen: 0.483 ug/L
 RT: 1.607 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VU048320.D
 Acq: 27 Apr 2022 17:22

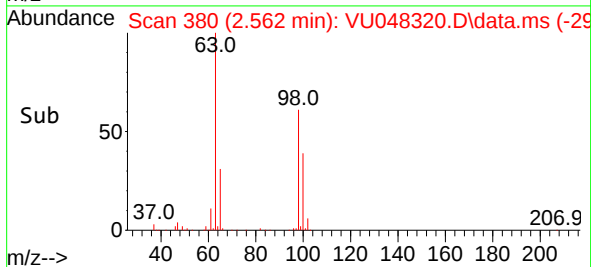
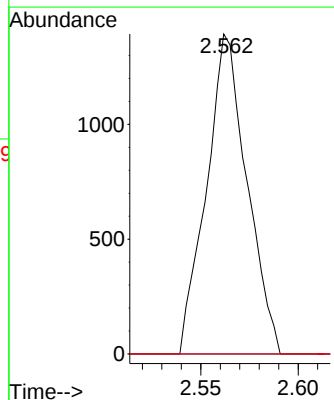
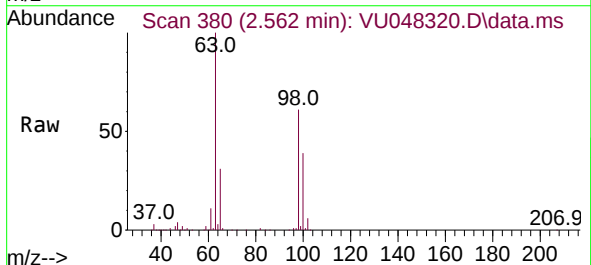
Instrument :
 MSVOA_U
 ClientSampleId :
 EXET4

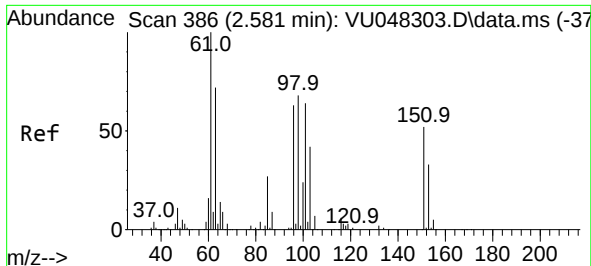
Tgt Ion: 62 Resp: 1563
 Ion Ratio Lower Upper
 62 100
 64 346.3 22.5 41.7#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.719 ug/L
 RT: 2.562 min Scan# 380
 Delta R.T. -0.019 min
 Lab File: VU048320.D
 Acq: 27 Apr 2022 17:22

Tgt Ion: 101 Resp: 2010
 Ion Ratio Lower Upper
 101 100
 85 0.0 32.6 48.8#
 151 0.0 64.1 96.1#

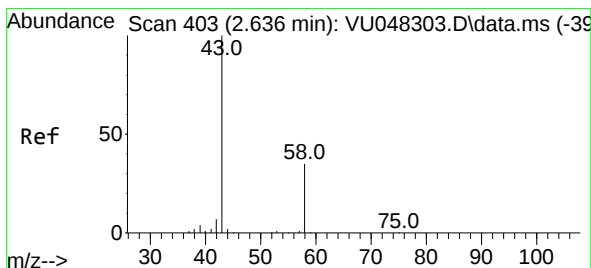
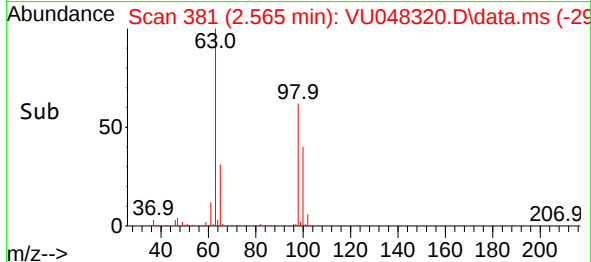
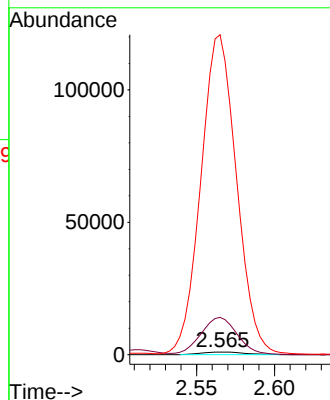
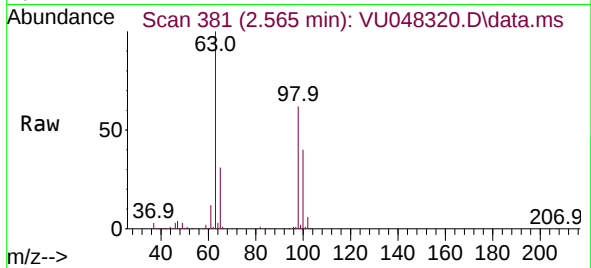




#12
1,1-Dichloroethene
Concen: 0.802 ug/L
RT: 2.565 min Scan# 31
Delta R.T. -0.016 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

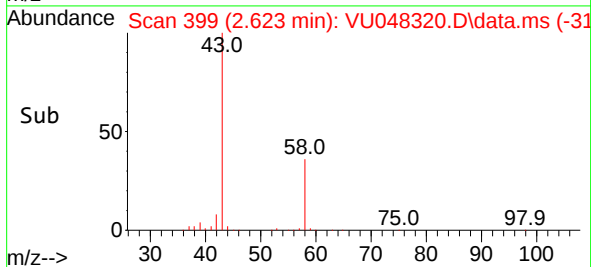
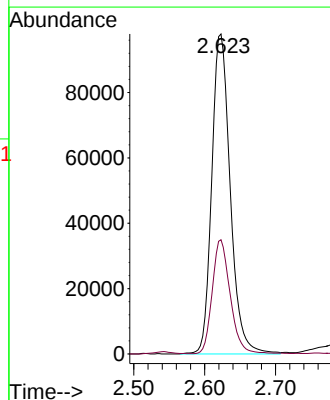
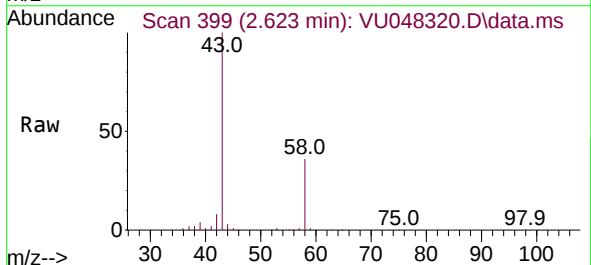
Instrument :
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ClientSampleId :
EXET4

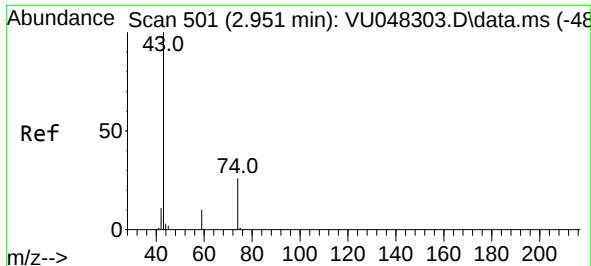
Tgt Ion: 96 Resp: 1956
Ion Ratio Lower Upper
96 100
61 1413.9 107.9 200.3#
63 12145.5 80.3 149.1#



#13
Acetone
Concen: 95.108 ug/L
RT: 2.623 min Scan# 399
Delta R.T. -0.013 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

Tgt Ion: 43 Resp: 177633
Ion Ratio Lower Upper
43 100
58 34.4 0.0 71.2

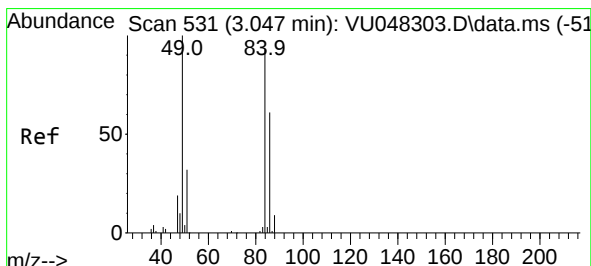
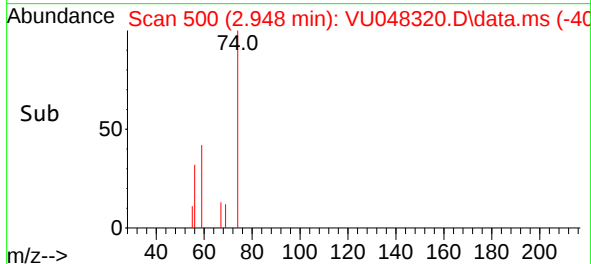
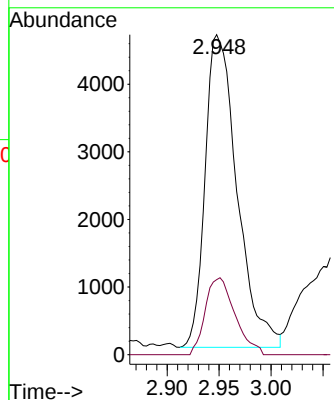
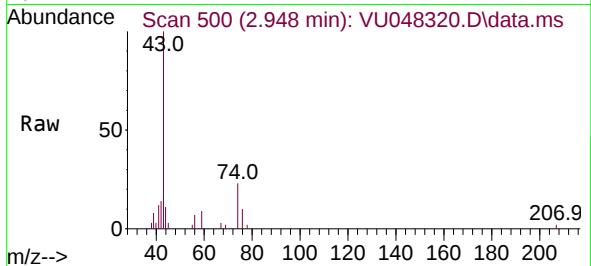




#15
Methyl Acetate
Concen: 2.668 ug/L
RT: 2.948 min Scan# 501
Delta R.T. -0.003 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

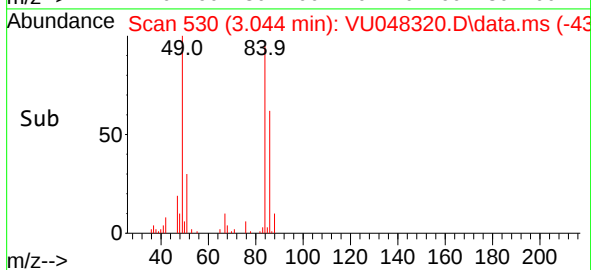
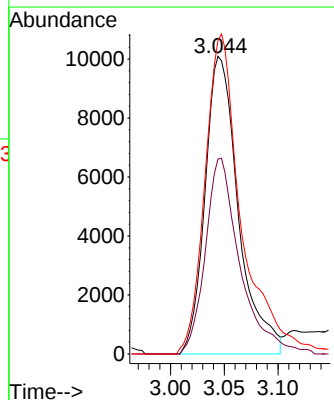
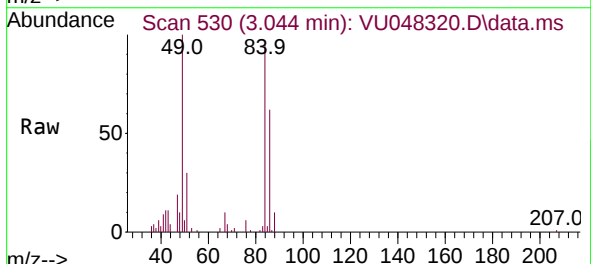
Instrument :
MSVOA_U
ClientSampleId :
EXET4

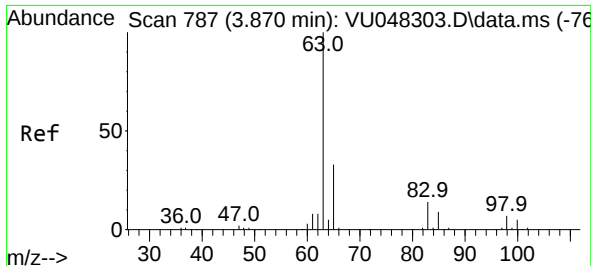
Tgt Ion: 43 Resp: 9893
Ion Ratio Lower Upper
43 100
74 22.8 21.0 31.6



#16
Methylene chloride
Concen: 6.923 ug/L
RT: 3.044 min Scan# 530
Delta R.T. -0.003 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

Tgt Ion: 84 Resp: 21769
Ion Ratio Lower Upper
84 100
86 65.5 45.4 84.2
49 105.3 79.2 147.0





#19

1,1-Dichloroethane

Concen: 5.066 ug/L

RT: 3.870 min Scan# 787

Delta R.T. 0.000 min

Lab File: VU048320.D

Acq: 27 Apr 2022 17:22

Instrument :

MSVOA_U

ClientSampleId :

EXET4

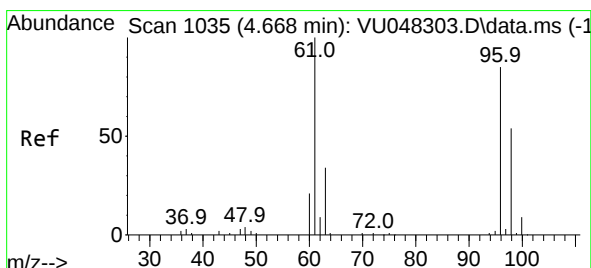
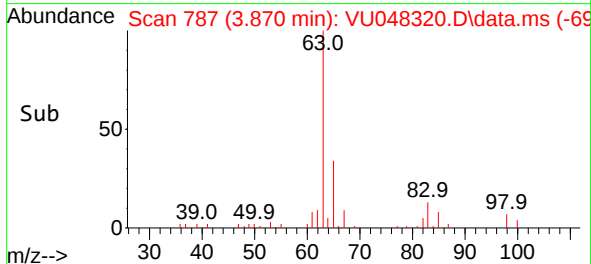
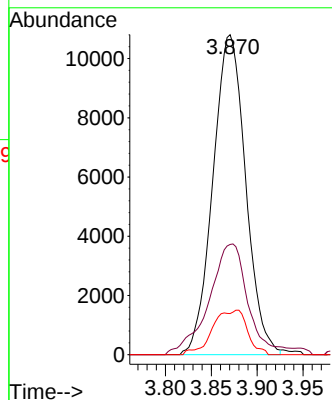
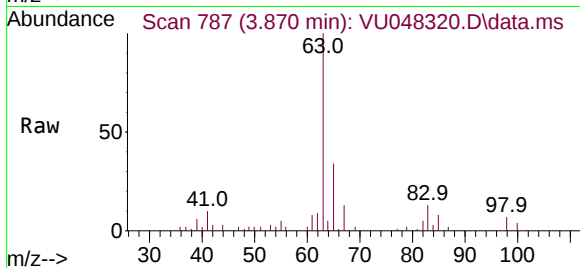
Tgt Ion: 63 Resp: 26841

Ion Ratio Lower Upper

63 100

65 34.4 22.0 40.8

83 12.9 8.8 16.4



#20

cis-1,2-Dichloroethene

Concen: 2.858 ug/L

RT: 4.668 min Scan# 1035

Delta R.T. 0.000 min

Lab File: VU048320.D

Acq: 27 Apr 2022 17:22

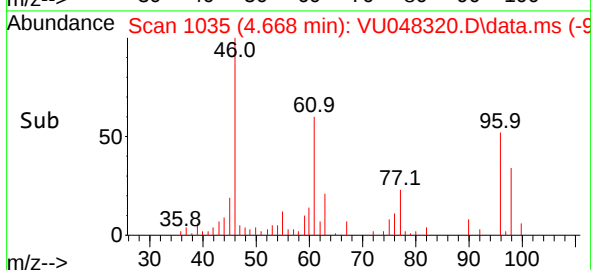
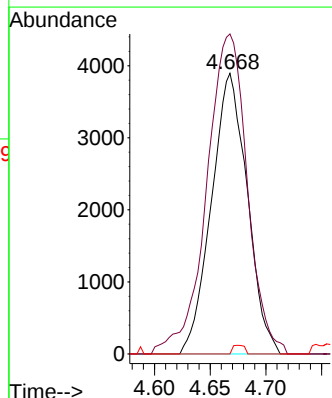
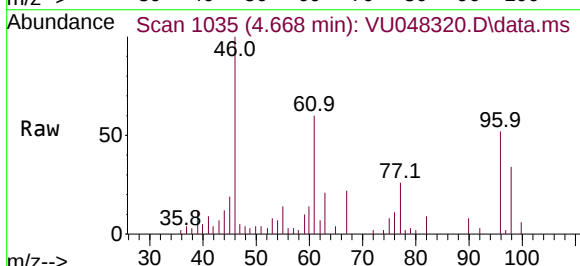
Tgt Ion: 96 Resp: 8729

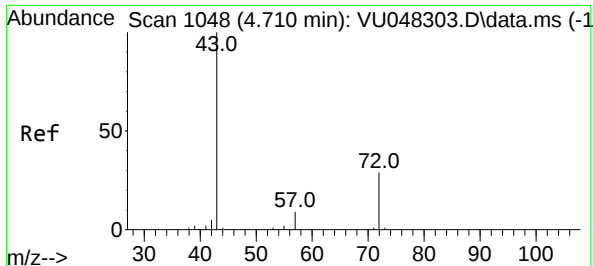
Ion Ratio Lower Upper

96 100

61 114.0 87.0 161.6

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 7.381 ug/L

RT: 4.710 min Scan# 1048

Delta R.T. 0.000 min

Lab File: VU048320.D

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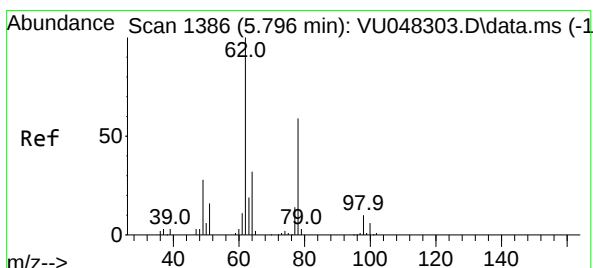
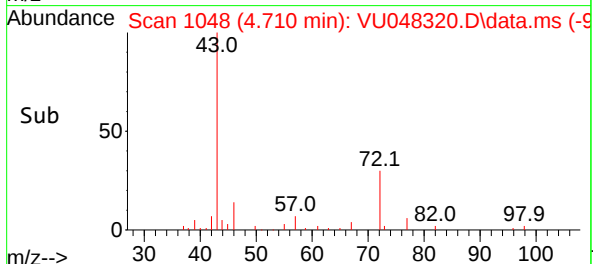
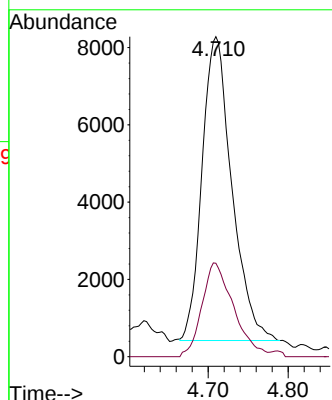
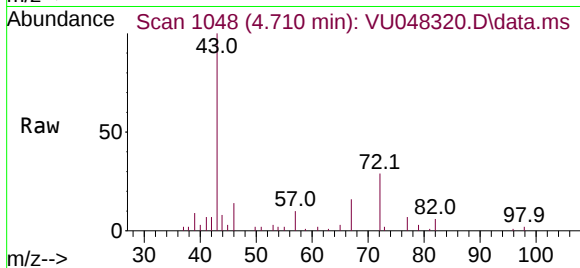
EXET4

Tgt Ion: 43 Resp: 20384

Ion Ratio Lower Upper

43 100

72 32.7 14.6 43.8



#27

1,2-Dichloroethane

Concen: 64.978 ug/L

RT: 5.780 min Scan# 1381

Delta R.T. -0.016 min

Lab File: VU048320.D

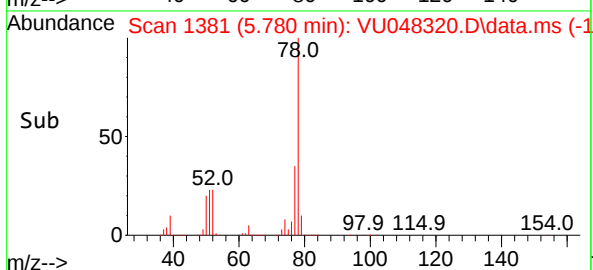
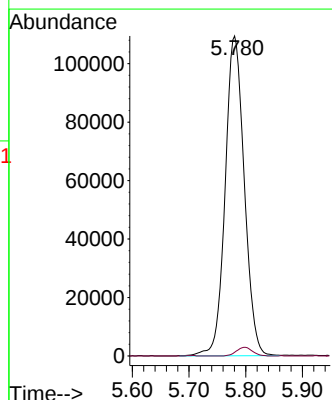
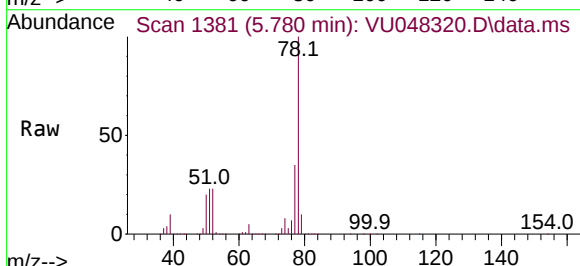
Acq: 27 Apr 2022 17:22

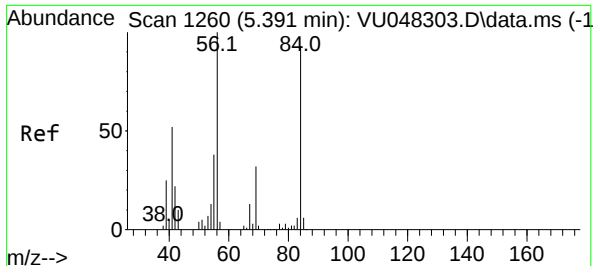
Tgt Ion: 62 Resp: 256445

Ion Ratio Lower Upper

62 100

98 1.1 8.5 12.7#

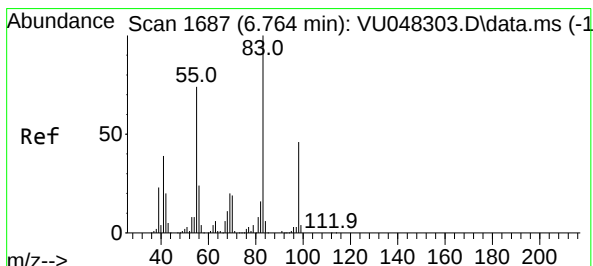
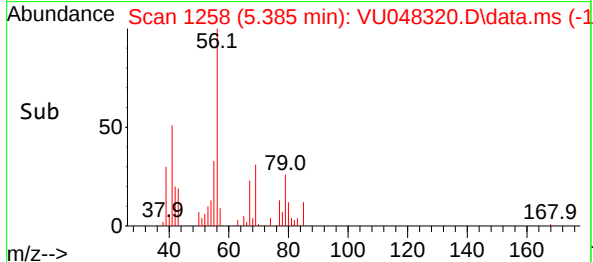
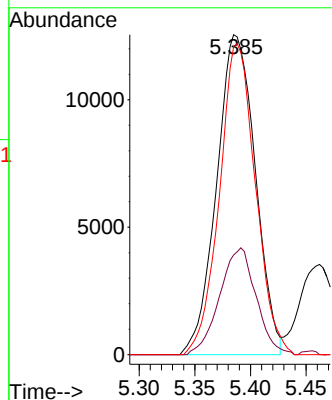
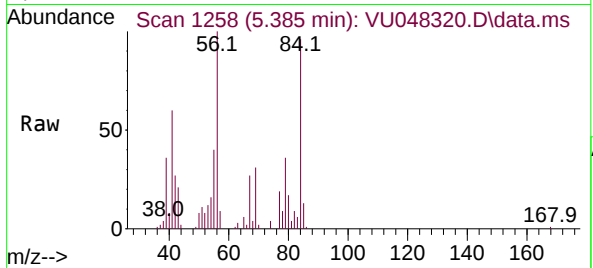




#29
Cyclohexane
Concen: 7.543 ug/L
RT: 5.385 min Scan# 11
Delta R.T. -0.006 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

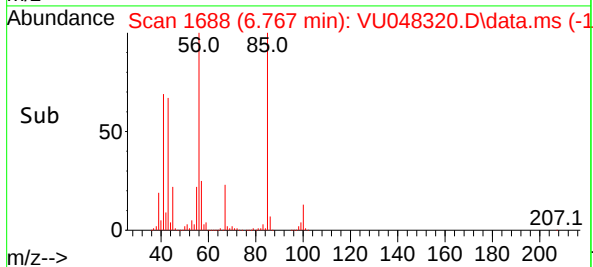
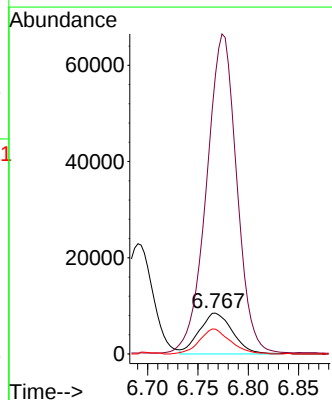
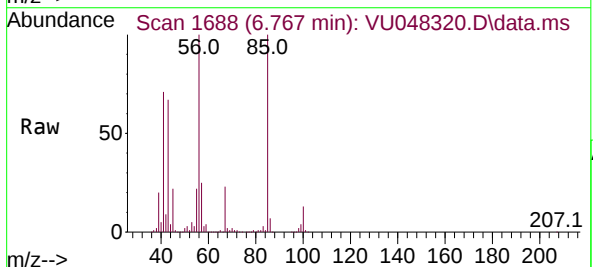
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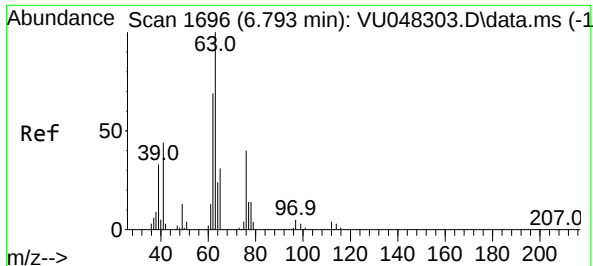
Tgt Ion: 56 Resp: 30300
Ion Ratio Lower Upper
56 100
69 31.4 24.2 36.4
84 90.4 72.2 108.2



#35
Methylcyclohexane
Concen: 4.525 ug/L
RT: 6.767 min Scan# 1688
Delta R.T. 0.003 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

Tgt Ion: 83 Resp: 19599
Ion Ratio Lower Upper
83 100
55 710.7 59.4 89.2#
98 56.7 37.3 55.9#

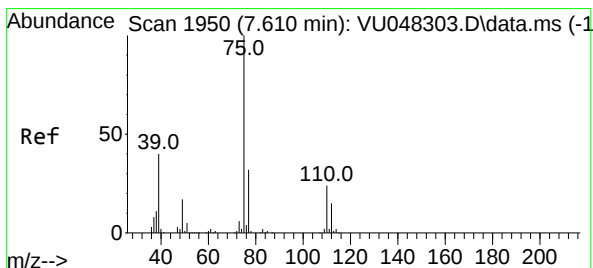
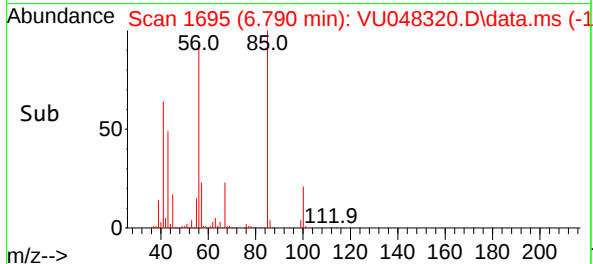
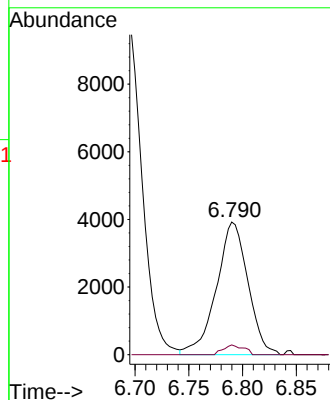
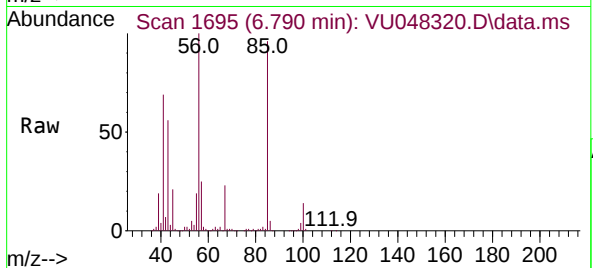




#37
1,2-Dichloropropane
Concen: 2.234 ug/L
RT: 6.790 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

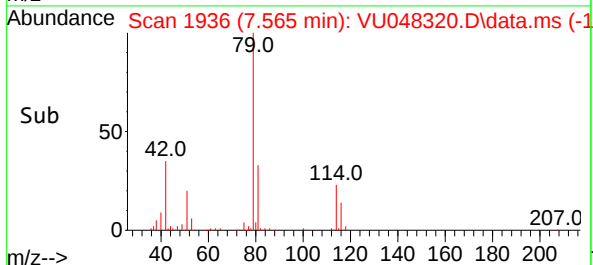
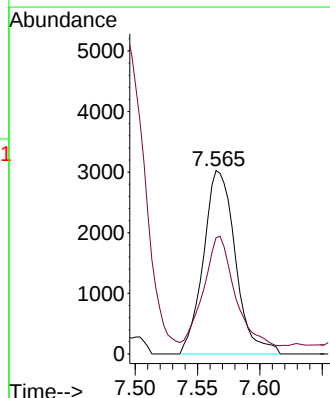
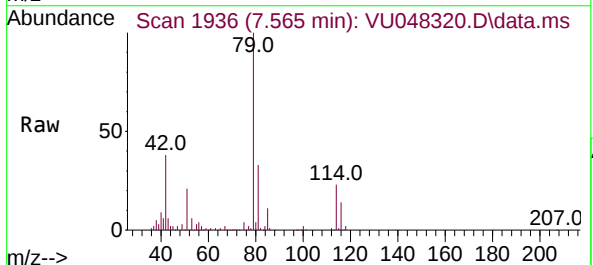
Instrument :
MSVOA_U
ClientSampleId :
EXET4

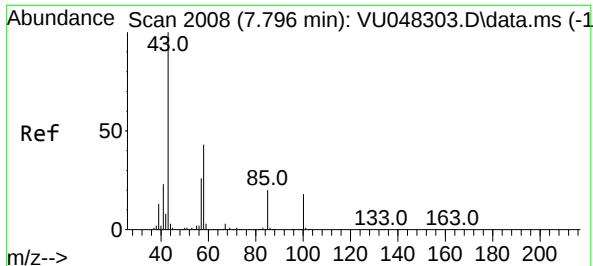
Tgt Ion: 63 Resp: 7999
Ion Ratio Lower Upper
63 100
112 3.9 3.1 4.7



#39
cis-1,3-Dichloropropene
Concen: 1.073 ug/L
RT: 7.565 min Scan# 1936
Delta R.T. -0.045 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

Tgt Ion: 75 Resp: 5405
Ion Ratio Lower Upper
75 100
77 63.3 22.0 41.0#





#40

4-Methyl-2-pentanone

Concen: 2.107 ug/L

RT: 7.796 min Scan# 2008

Delta R.T. 0.000 min

Lab File: VU048320.D

Acq: 27 Apr 2022 17:22

Instrument :

MSVOA_U

ClientSampleId :

EXET4

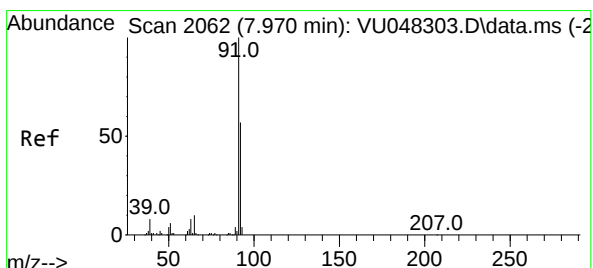
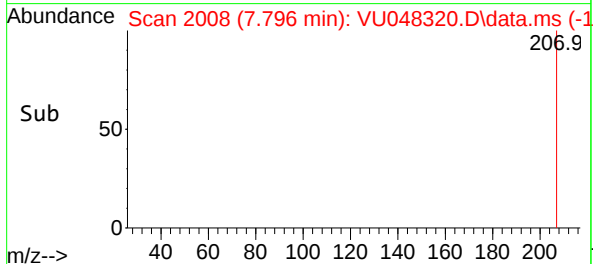
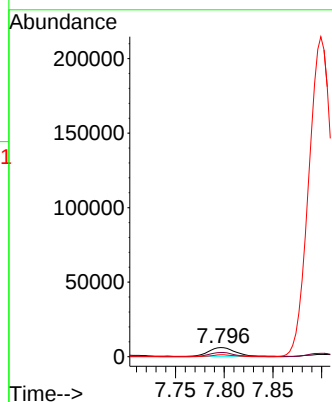
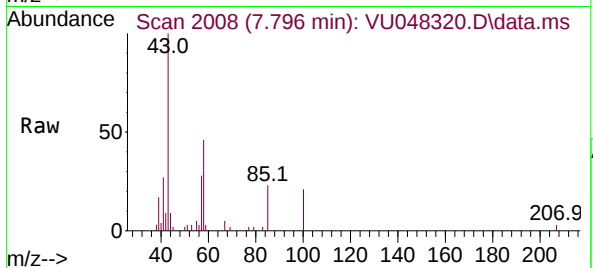
Tgt Ion: 43 Resp: 11382

Ion Ratio Lower Upper

43 100

58 44.7 34.4 51.6

100 18.6 13.6 20.4



#42

Toluene

Concen: 97.389 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VU048320.D

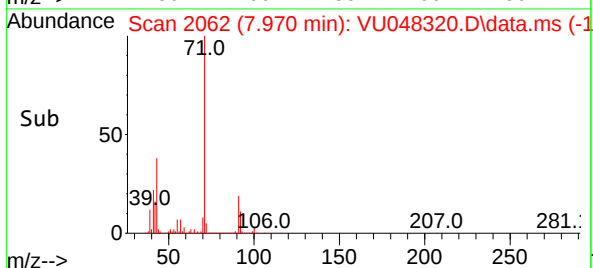
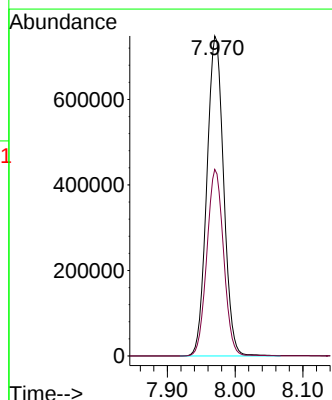
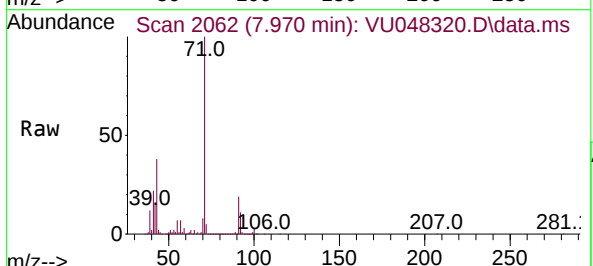
Acq: 27 Apr 2022 17:22

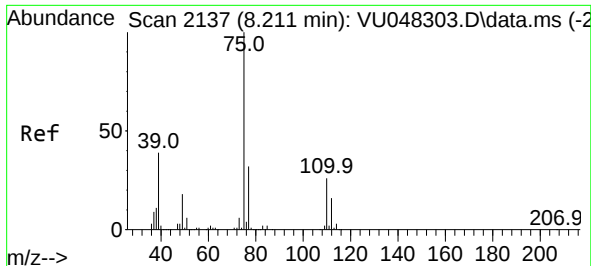
Tgt Ion: 91 Resp: 1287006

Ion Ratio Lower Upper

91 100

92 58.3 40.9 76.0

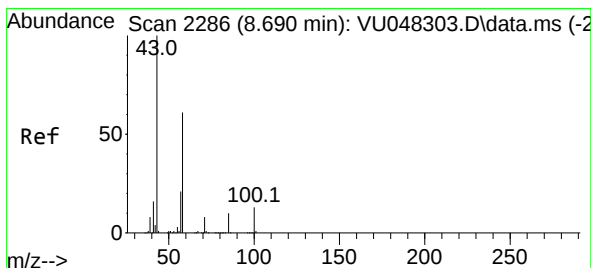
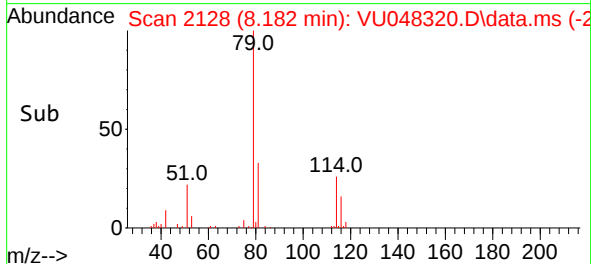
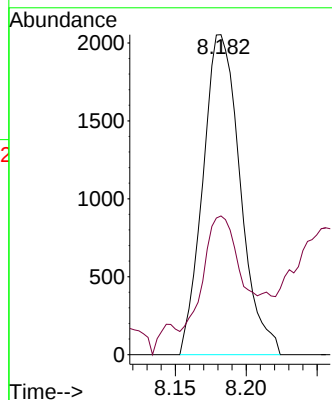
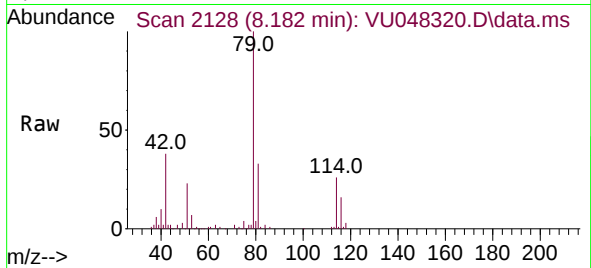




#44
trans-1,3-Dichloropropene
Concen: 0.764 ug/L
RT: 8.182 min Scan# 2137
Delta R.T. -0.029 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

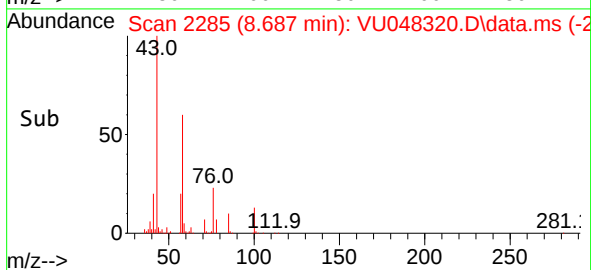
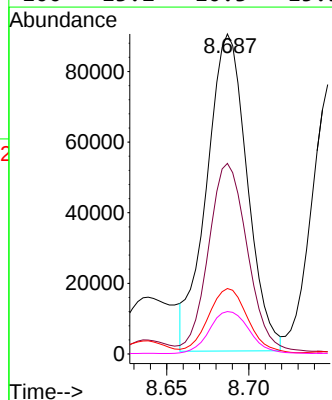
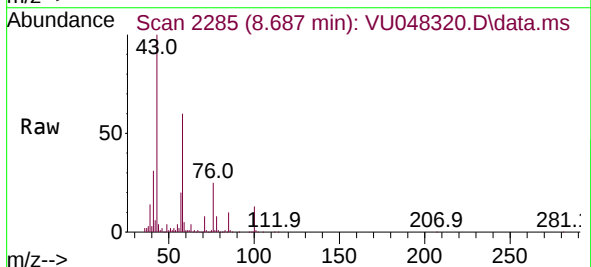
Instrument :
MSVOA_U
ClientSampleId :
EXET4

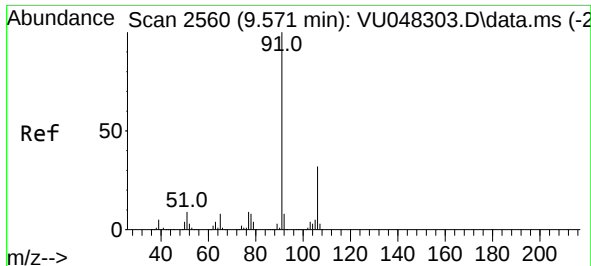
Tgt Ion: 75 Resp: 3758
Ion Ratio Lower Upper
75 100
77 43.4 22.1 41.1#



#48
2-Hexanone
Concen: 34.110 ug/L
RT: 8.687 min Scan# 2285
Delta R.T. -0.003 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

Tgt Ion: 43 Resp: 153856
Ion Ratio Lower Upper
43 100
58 57.4 48.1 72.1
57 19.7 16.2 24.4
100 13.2 10.3 15.5

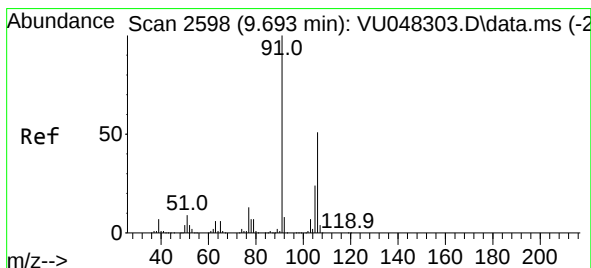
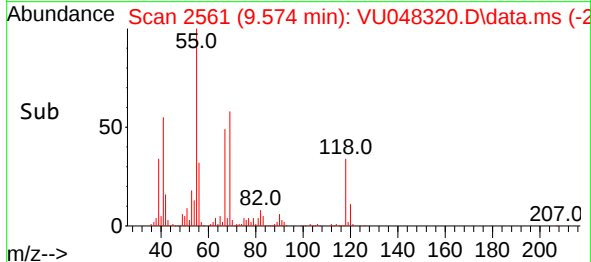
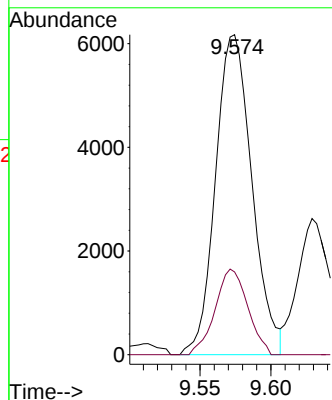
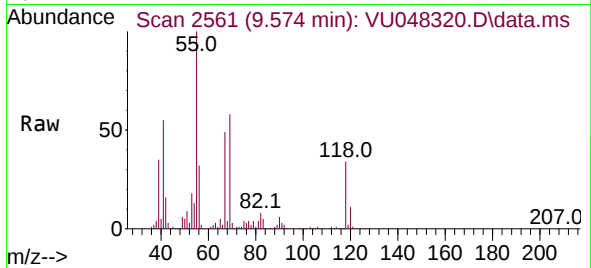




#52
Ethylbenzene
Concen: 0.806 ug/L
RT: 9.574 min Scan# 2561
Delta R.T. 0.003 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

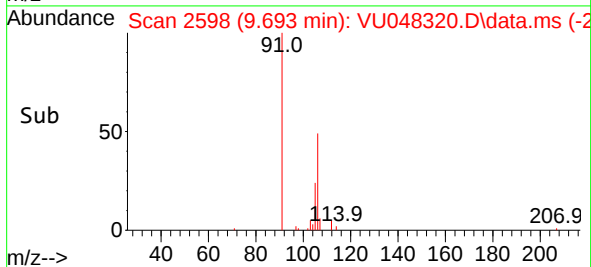
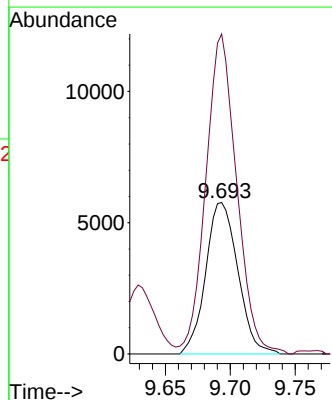
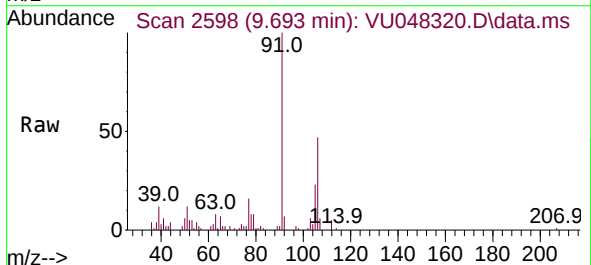
Instrument :
MSVOA_U
ClientSampleId :
EXET4

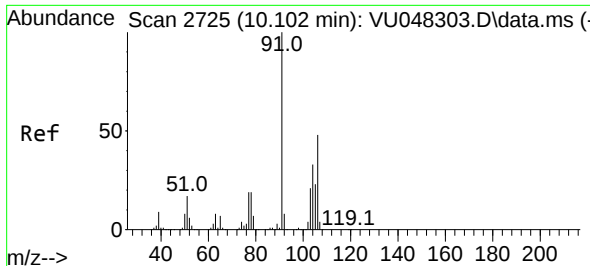
Tgt Ion: 91 Resp: 11033
Ion Ratio Lower Upper
91 100
106 25.8 22.5 41.9



#53
m,p-Xylene
Concen: 1.842 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. 0.000 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

Tgt Ion:106 Resp: 9948
Ion Ratio Lower Upper
106 100
91 211.2 137.4 255.2

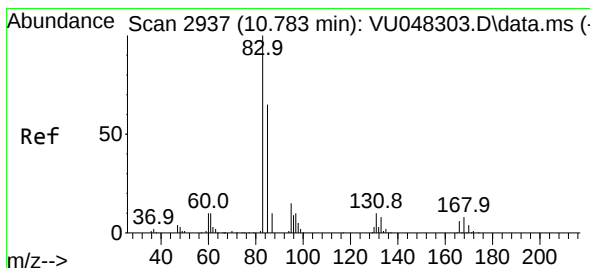
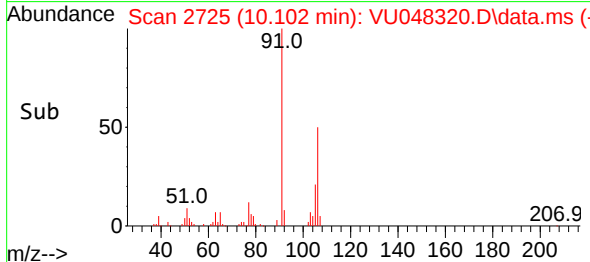
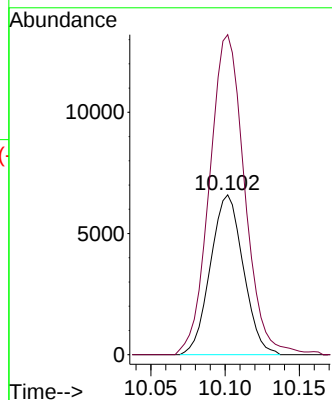
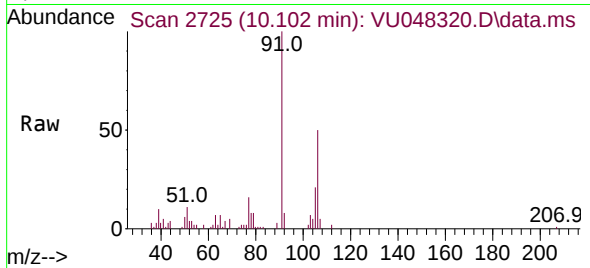




#54
o-Xylene
Concen: 1.866 ug/L
RT: 10.102 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

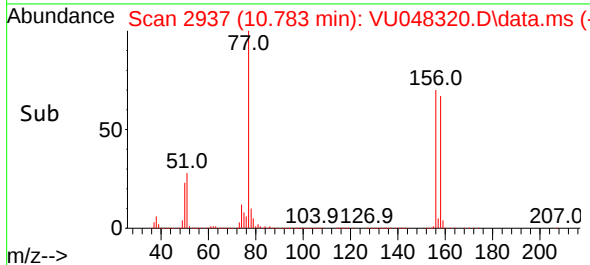
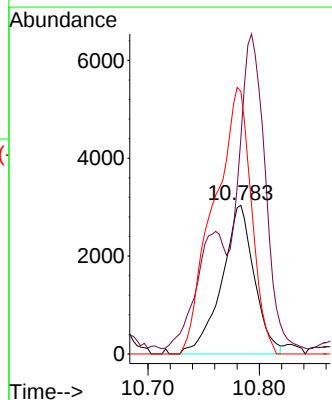
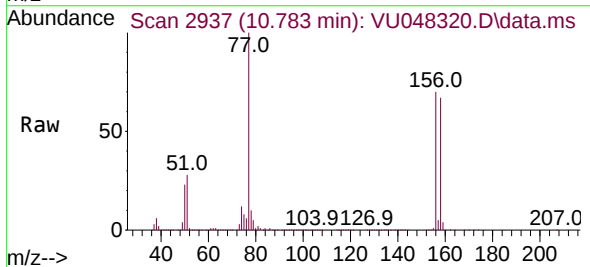
Instrument :
MSVOA_U
ClientSampleId :
EXET4

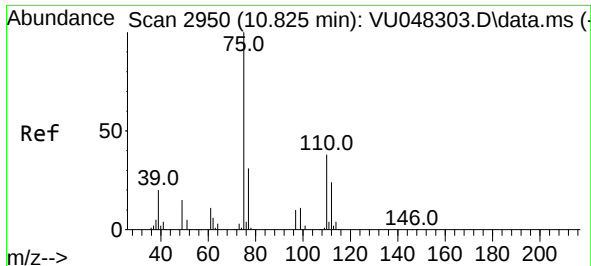
Tgt Ion:106 Resp: 10151
Ion Ratio Lower Upper
106 100
91 200.2 145.3 269.8



#57
1,1,2,2-Tetrachloroethane
Concen: 0.831 ug/L
RT: 10.783 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

Tgt Ion: 83 Resp: 6160
Ion Ratio Lower Upper
83 100
85 144.7 45.1 83.7#
131 176.8 7.8 11.6#

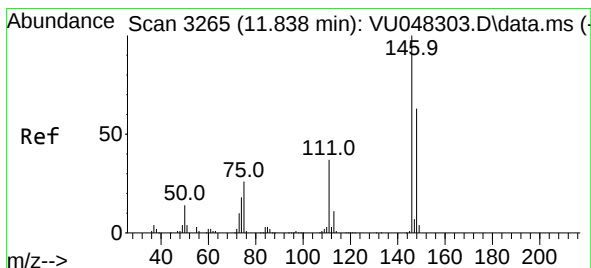
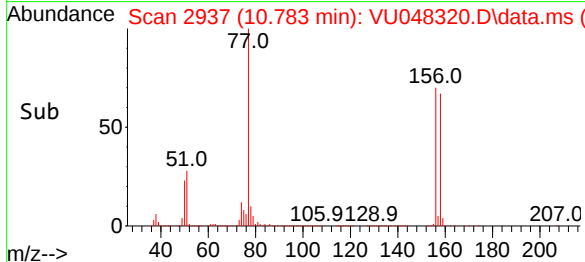
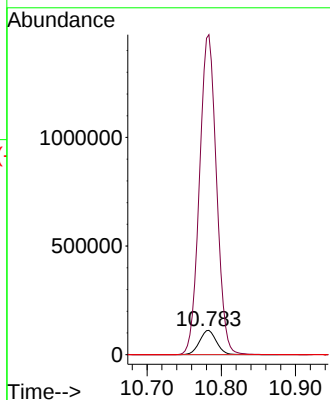
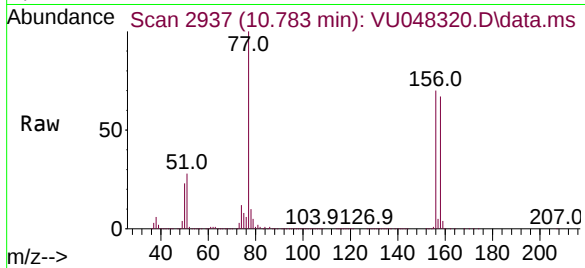




#60
1,2,3-Trichloropropane
Concen: 29.572 ug/L
RT: 10.783 min Scan# 2950
Delta R.T. -0.042 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

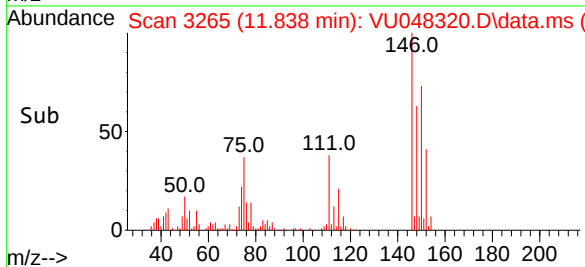
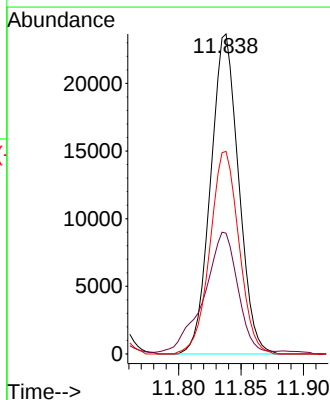
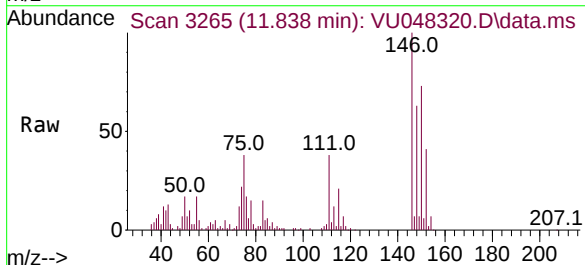
Instrument :
MSVOA_U
ClientSampleId :
EXET4

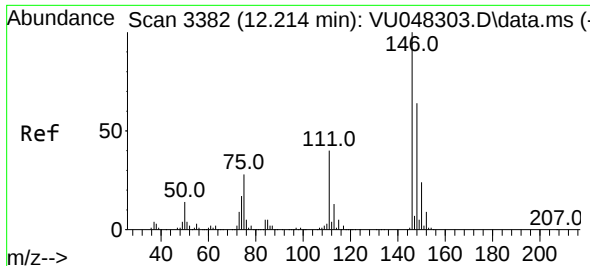
Tgt Ion: 75 Resp: 178127
Ion Ratio Lower Upper
75 100
77 1316.7 25.8 38.8#
110 0.0 29.9 44.9#



#65
1,4-Dichlorobenzene
Concen: 4.482 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. 0.000 min
Lab File: VU048320.D
Acq: 27 Apr 2022 17:22

Tgt Ion:146 Resp: 37037
Ion Ratio Lower Upper
146 100
111 37.8 25.9 48.1
148 63.3 45.1 83.7





#67

1,2-Dichlorobenzene

Concen: 39.298 ug/L

RT: 12.211 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU048320.D

Acq: 27 Apr 2022 17:22

Instrument :

MSVOA_U

ClientSampleId :

EXET4

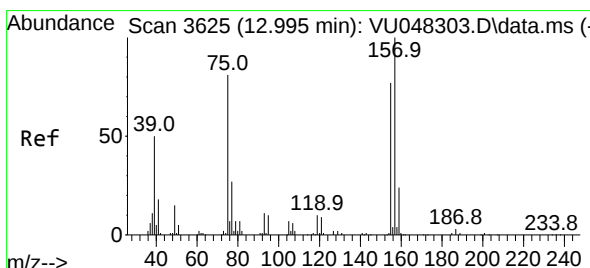
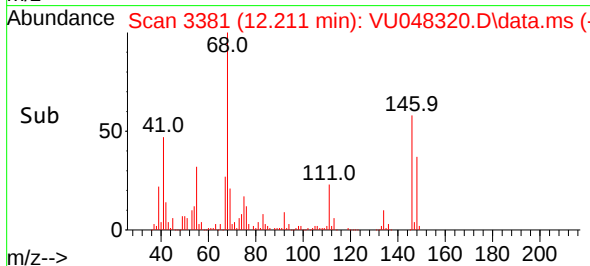
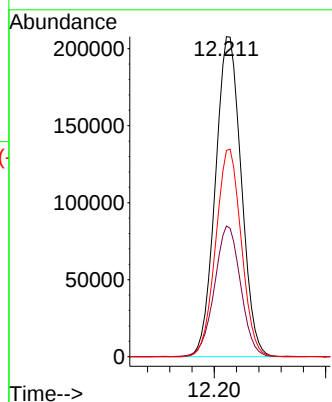
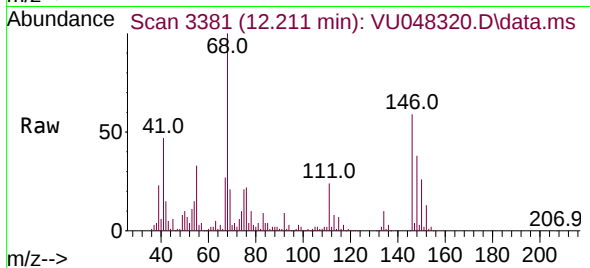
Tgt Ion:146 Resp: 335070

Ion Ratio Lower Upper

146 100

111 40.8 31.7 47.5

148 64.5 50.9 76.3



#68

1,2-Dibromo-3-chloropropane

Concen: 307.555 ug/L

RT: 12.970 min Scan# 3617

Delta R.T. -0.026 min

Lab File: VU048320.D

Acq: 27 Apr 2022 17:22

Tgt Ion: 75 Resp: 494545

Ion Ratio Lower Upper

75 100

155 3.1 71.8 107.6#

157 2.5 93.4 140.2#

