

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072122\
 Data File : VU049822.D
 Acq On : 21 Jul 2022 12:09
 Operator : SY/MD
 Sample : N3792-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 22 04:11:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM071122WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 22 03:08:56 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	195043	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	189673	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	89219	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	62671	38.082	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	76.160%
7) Chloroethane-d5	1.884	69	47383	39.833	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.660%
11) 1,1-Dichloroethene-d2	2.556	63	95373	32.810	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.620%
21) 2-Butanone-d5	4.620	46	145247	103.390	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.390%
24) Chloroform-d	5.060	84	133449	45.784	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.560%
26) 1,2-Dichloroethane-d4	5.700	65	92664	46.973	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.940%
32) Benzene-d6	5.726	84	235506	40.871	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	81.740%
36) 1,2-Dichloropropane-d6	6.690	67	85862	44.301	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.600%
41) Toluene-d8	7.899	98	198826	39.622	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.240%#
43) trans-1,3-Dichloroprop...	8.179	79	35602	43.598	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	87.200%
47) 2-Hexanone-d5	8.636	63	77821	89.261	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	89.260%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	136427	50.307	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.620%
66) 1,2-Dichlorobenzene-d4	12.195	152	76861	45.691	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.380%
Target Compounds						
					Qvalue	
3) Chloromethane	1.520	50	60115	23.428	ug/L	99
8) Chloroethane	1.909	64	20190	15.719	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.552	101	590	0.393	ug/L #	20
12) 1,1-Dichloroethene	2.568	96	23147	16.599	ug/L #	55
13) Acetone	2.623	43	58424	43.760	ug/L	100
16) Methylene chloride	3.038	84	60132	34.242	ug/L	97
19) 1,1-Dichloroethane	3.864	63	59511	18.738	ug/L	98
22) 2-Butanone	4.703	43	62986	35.237	ug/L	99
25) Chloroform	5.086	83	98851	31.040	ug/L	98
27) 1,2-Dichloroethane	5.793	62	98755	36.417	ug/L	99
31) Carbon tetrachloride	5.520	117	43803	19.504	ug/L	98
33) Benzene	5.774	78	137711	19.316	ug/L	100
34) Trichloroethene	6.539	95	82428	47.829	ug/L	95
37) 1,2-Dichloropropane	6.790	63	39489	19.983	ug/L #	97
39) cis-1,3-Dichloropropene	7.565	75	2515	0.944	ug/L #	1
40) 4-Methyl-2-pentanone	7.793	43	130373	40.753	ug/L	99
44) trans-1,3-Dichloropropene	8.182	75	1652	0.660	ug/L	83
45) 1,1,2-Trichloroethane	8.401	97	36398	21.102	ug/L	96
48) 2-Hexanone	8.687	43	117407	45.925	ug/L	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072122\
 Data File : VU049822.D
 Acq On : 21 Jul 2022 12:09
 Operator : SY/MD
 Sample : N3792-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 22 04:11:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM071122WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 22 03:08:56 2022
 Response via : Initial Calibration

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

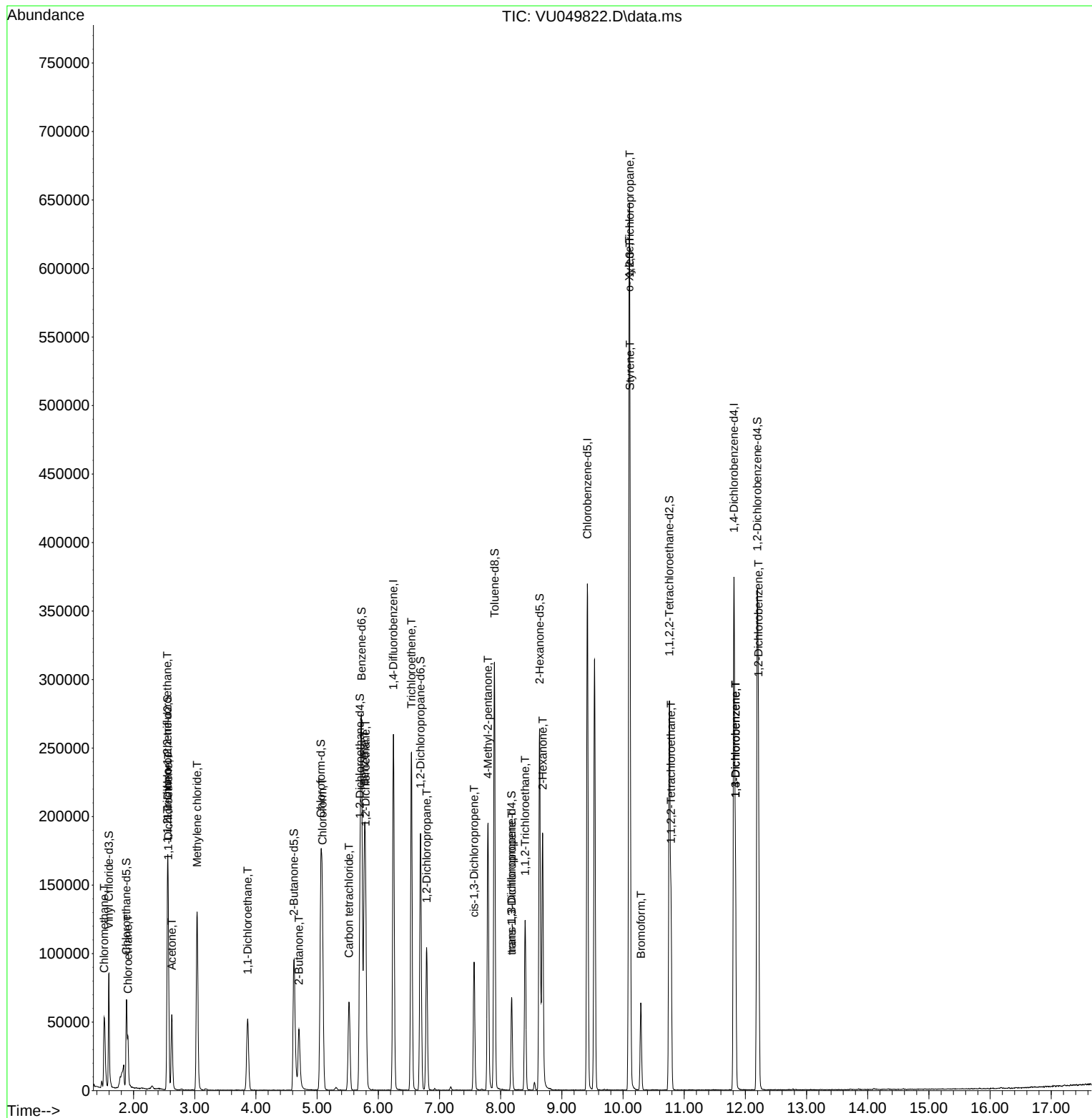
54) o-Xylene	10.102	106	130000	47.485	ug/L	97
55) Styrene	10.115	104	116898	25.873	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.784	83	65175	21.109	ug/L	98
59) Bromoform	10.292	173	26581	22.213	ug/L	99
60) 1,2,3-Trichloropropane	10.112	75	9183	3.864	ug/L #	1
64) 1,3-Dichlorobenzene	11.838	146	59453	20.444	ug/L	96
65) 1,4-Dichlorobenzene	11.838	146	59453	20.352	ug/L	97
67) 1,2-Dichlorobenzene	12.214	146	78741	26.039	ug/L	99

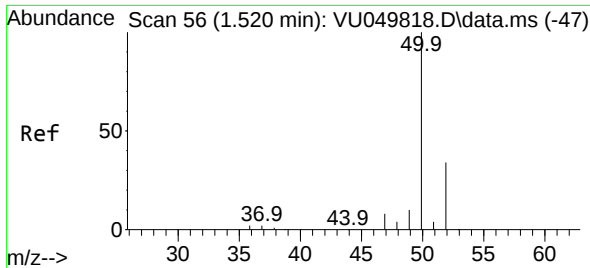
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072122\
Data File : VU049822.D
Acq On : 21 Jul 2022 12:09
Operator : SY/MD
Sample : N3792-01
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jul 22 04:11:44 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM071122WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Jul 22 03:08:56 2022
Response via : Initial Calibration

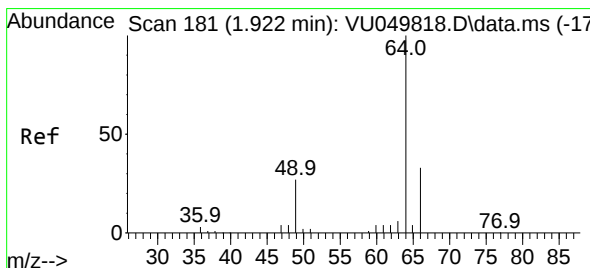
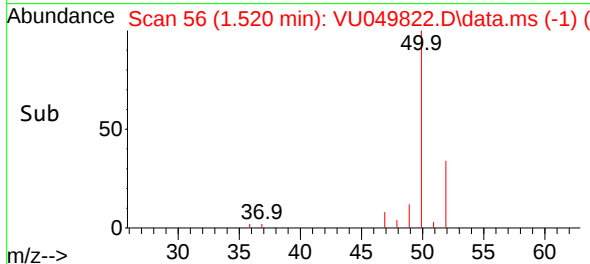
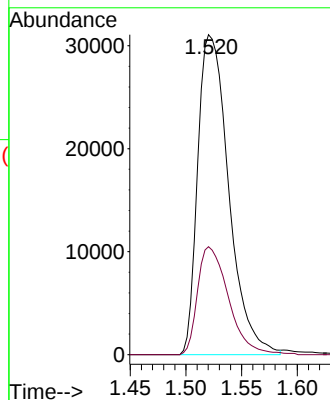
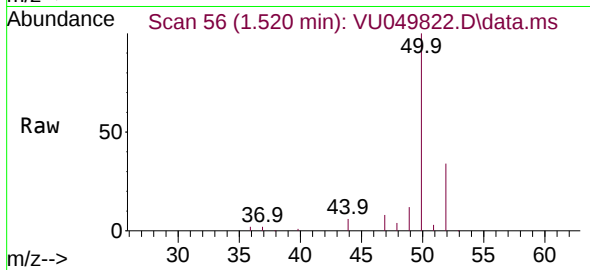




#3
Chloromethane
Concen: 23.428 ug/L
RT: 1.520 min Scan# 50
Delta R.T. 0.000 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

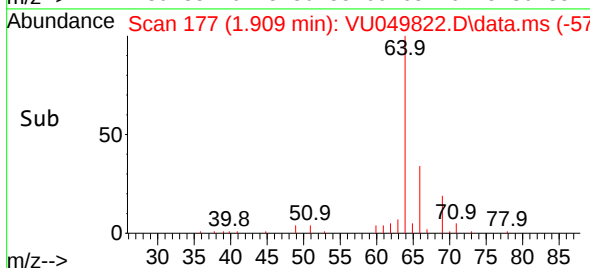
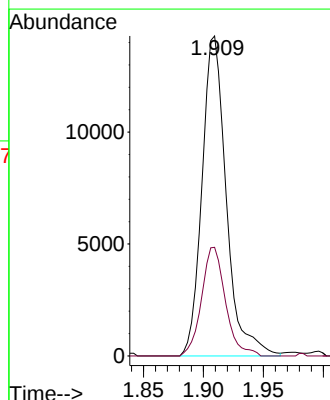
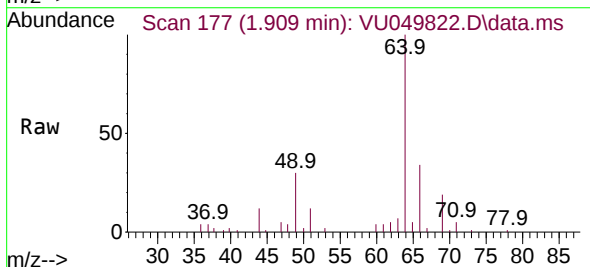
Instrument :
MSVOA_U
ClientSampleId :

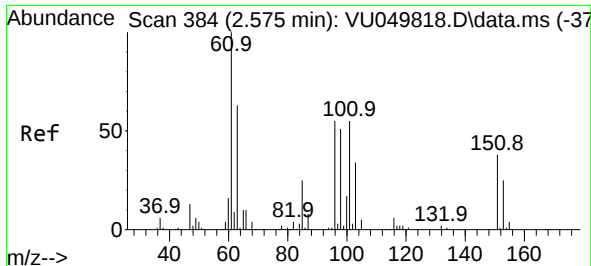
Tgt Ion: 50 Resp: 60115
Ion Ratio Lower Upper
50 100
52 33.7 23.2 43.0



#8
Chloroethane
Concen: 15.719 ug/L
RT: 1.909 min Scan# 177
Delta R.T. -0.013 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

Tgt Ion: 64 Resp: 20190
Ion Ratio Lower Upper
64 100
66 34.0 22.1 41.1

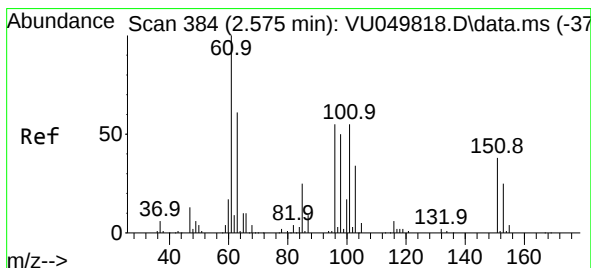
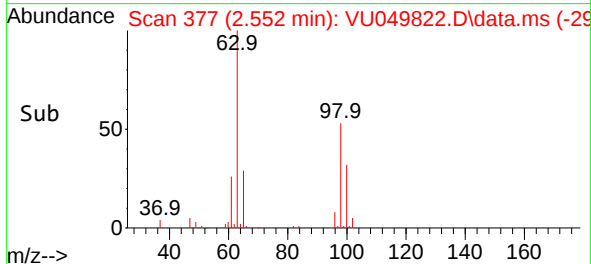
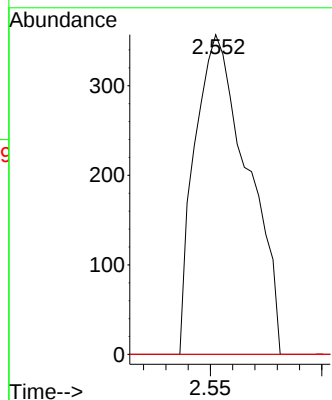
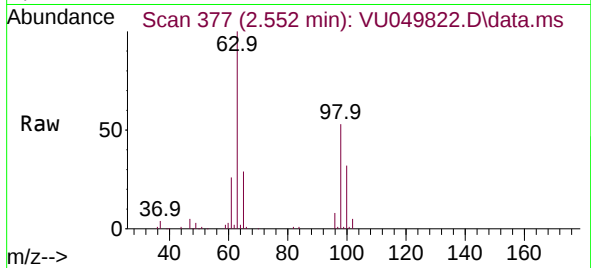




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.393 ug/L
 RT: 2.552 min Scan# 31
 Delta R.T. -0.022 min
 Lab File: VU049822.D
 Acq: 21 Jul 2022 12:09

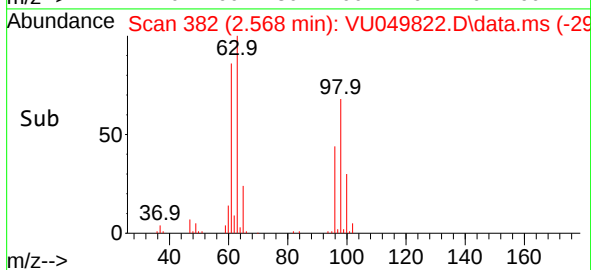
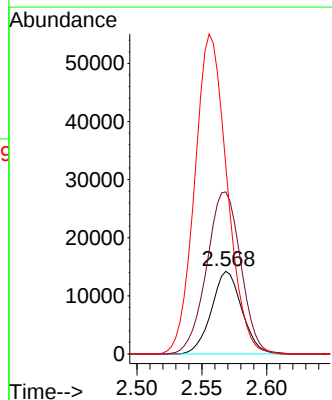
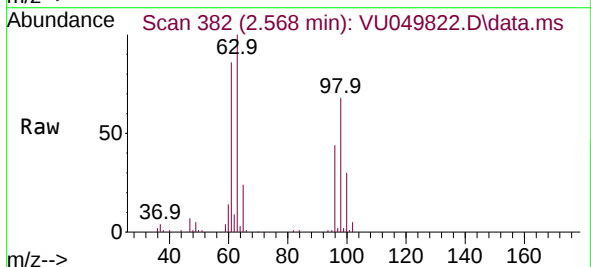
Instrument :
 MSVOA_U
 ClientSampleId :

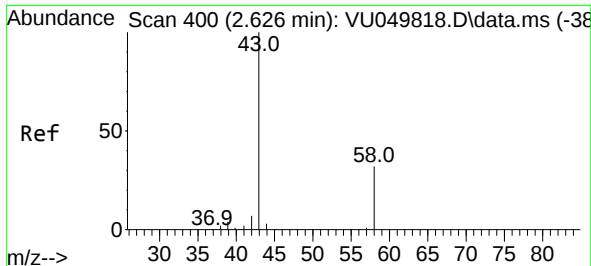
Tgt Ion:101 Resp: 590
 Ion Ratio Lower Upper
 101 100
 85 0.0 37.3 55.9#
 151 0.0 56.9 85.3#



#12
 1,1-Dichloroethene
 Concen: 16.599 ug/L
 RT: 2.568 min Scan# 382
 Delta R.T. -0.006 min
 Lab File: VU049822.D
 Acq: 21 Jul 2022 12:09

Tgt Ion: 96 Resp: 23147
 Ion Ratio Lower Upper
 96 100
 61 196.1 129.6 240.6
 63 227.7 79.0 146.6#





#13

Acetone

Concen: 43.760 ug/L

RT: 2.623 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

Instrument :

MSVOA_U

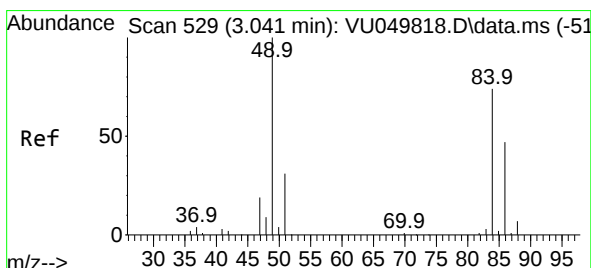
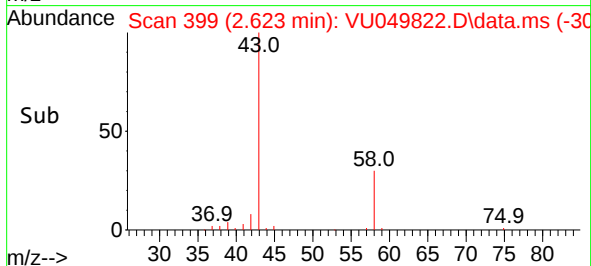
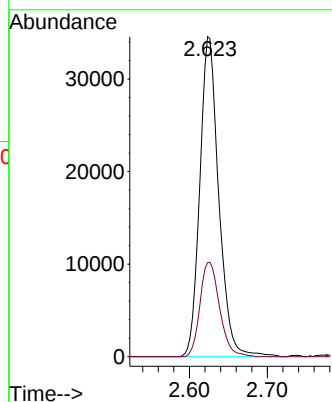
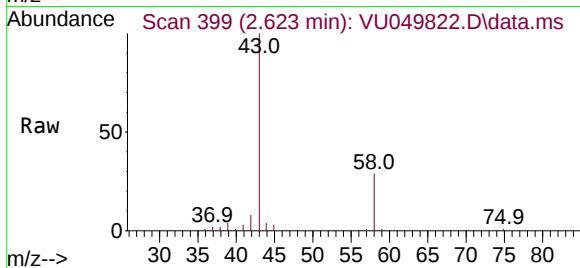
ClientSampleId :

Tgt Ion: 43 Resp: 58424

Ion Ratio Lower Upper

43 100

58 30.5 0.0 61.4



#16

Methylene chloride

Concen: 34.242 ug/L

RT: 3.038 min Scan# 528

Delta R.T. -0.003 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

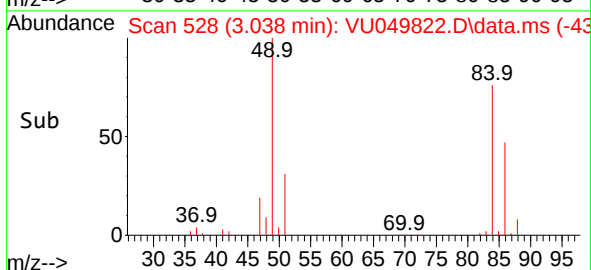
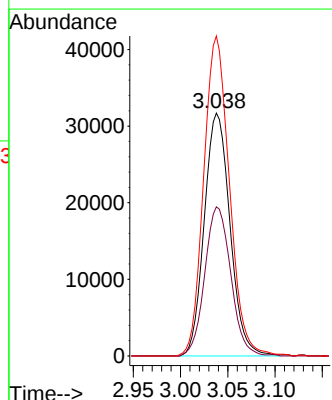
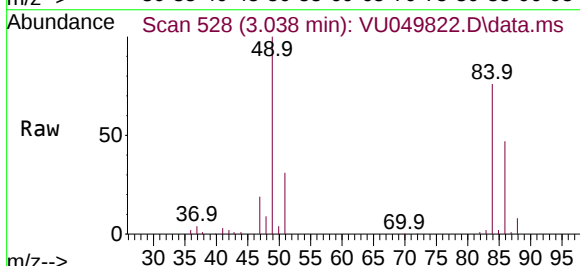
Tgt Ion: 84 Resp: 60132

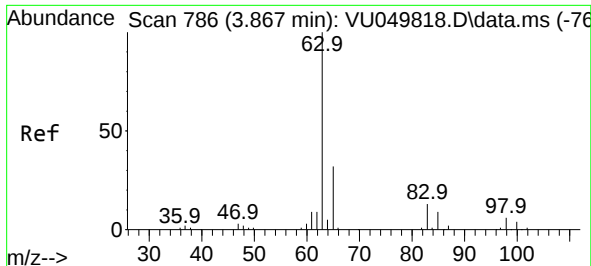
Ion Ratio Lower Upper

84 100

86 61.4 45.6 84.6

49 131.7 94.4 175.4





#19

1,1-Dichloroethane

Concen: 18.738 ug/L

RT: 3.864 min Scan# 71

Delta R.T. -0.003 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

Instrument :

MSVOA_U

ClientSampleId :

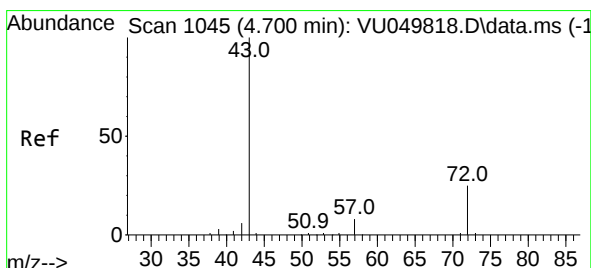
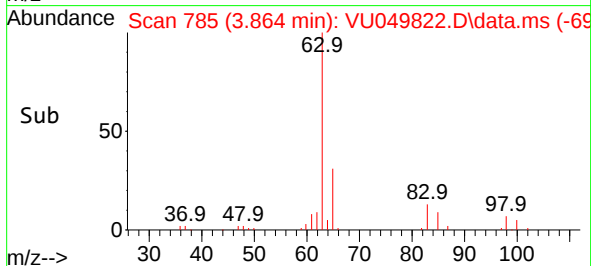
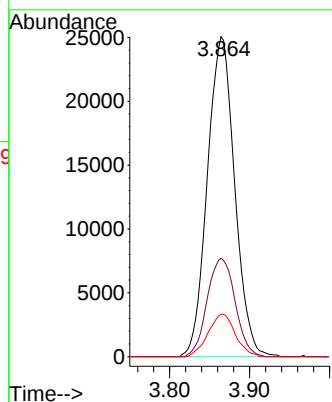
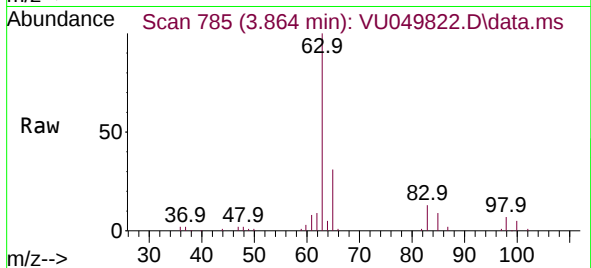
Tgt Ion: 63 Resp: 59511

Ion Ratio Lower Upper

63 100

65 30.7 22.6 42.0

83 13.2 9.2 17.2



#22

2-Butanone

Concen: 35.237 ug/L

RT: 4.703 min Scan# 1046

Delta R.T. 0.003 min

Lab File: VU049822.D

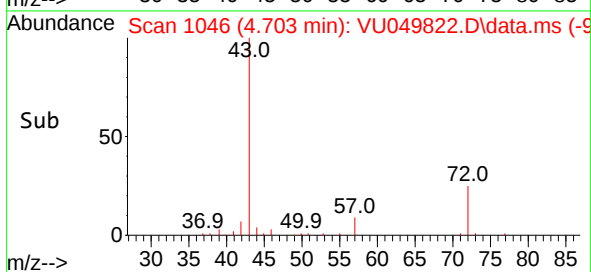
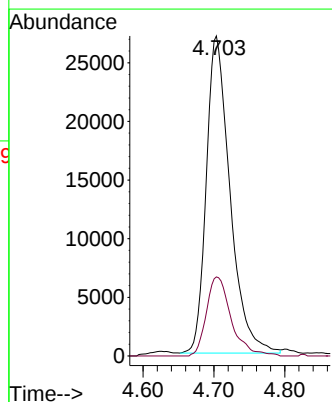
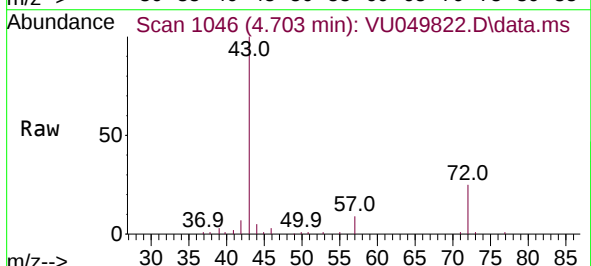
Acq: 21 Jul 2022 12:09

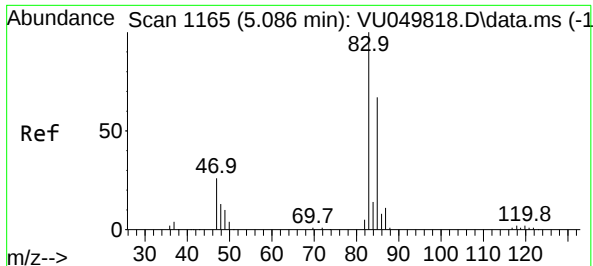
Tgt Ion: 43 Resp: 62986

Ion Ratio Lower Upper

43 100

72 25.9 12.7 38.0





#25

Chloroform

Concen: 31.040 ug/L

RT: 5.086 min Scan# 1165

Delta R.T. 0.000 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

Instrument :

MSVOA_U

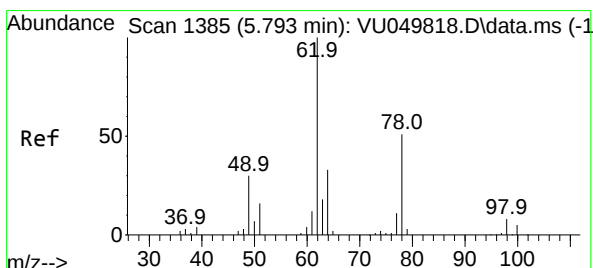
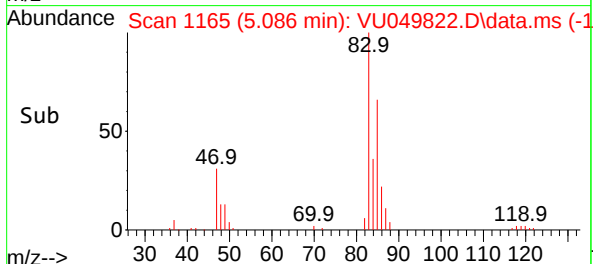
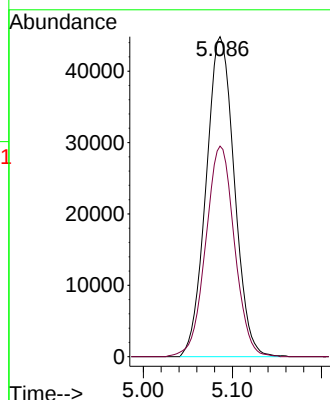
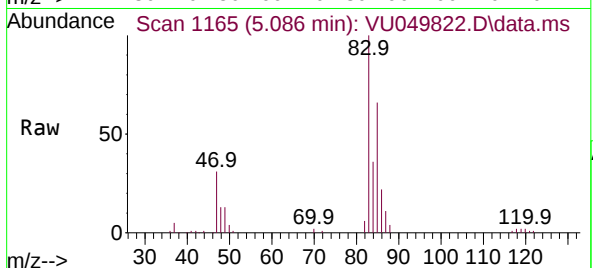
ClientSampleId :

Tgt Ion: 83 Resp: 98851

Ion Ratio Lower Upper

83 100

85 65.8 45.2 84.0



#27

1,2-Dichloroethane

Concen: 36.417 ug/L

RT: 5.793 min Scan# 1385

Delta R.T. 0.000 min

Lab File: VU049822.D

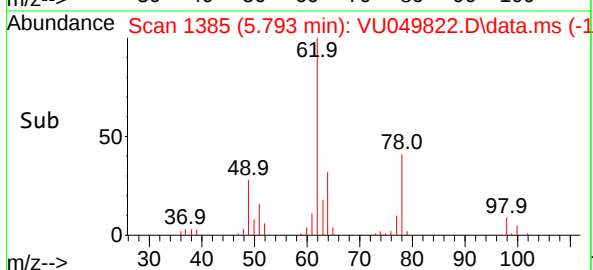
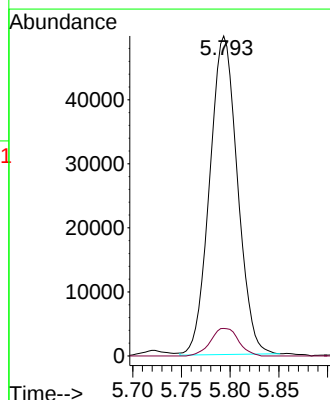
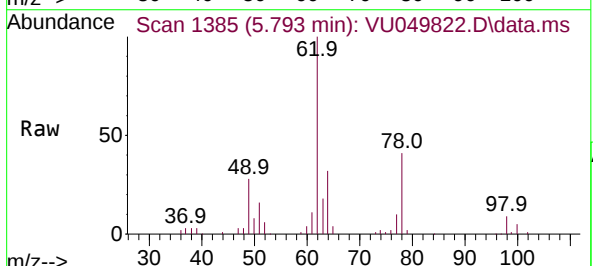
Acq: 21 Jul 2022 12:09

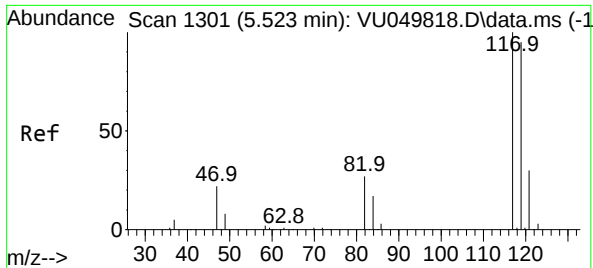
Tgt Ion: 62 Resp: 98755

Ion Ratio Lower Upper

62 100

98 8.6 6.7 10.1

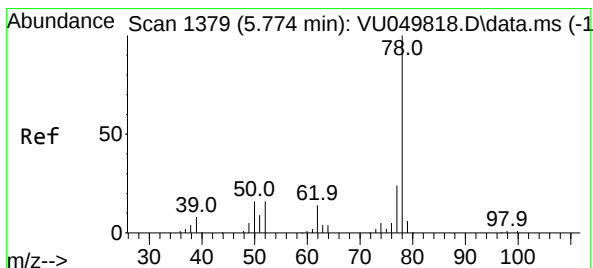
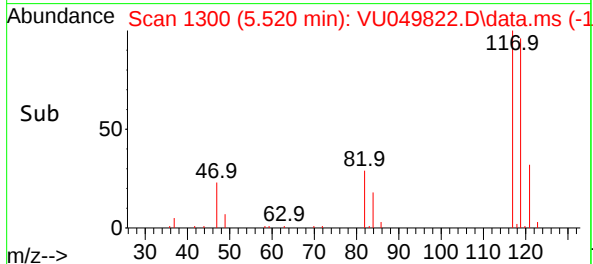
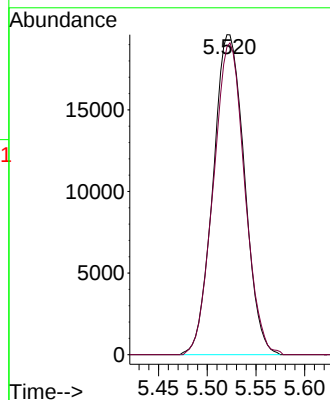
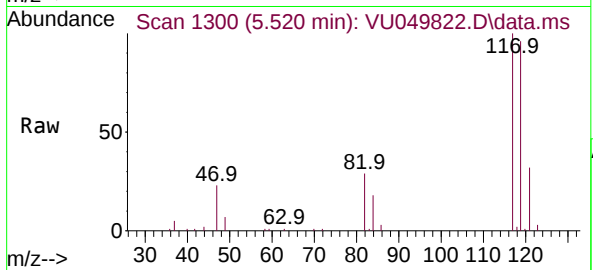




#31
Carbon tetrachloride
Concen: 19.504 ug/L
RT: 5.520 min Scan# 117
Delta R.T. -0.003 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

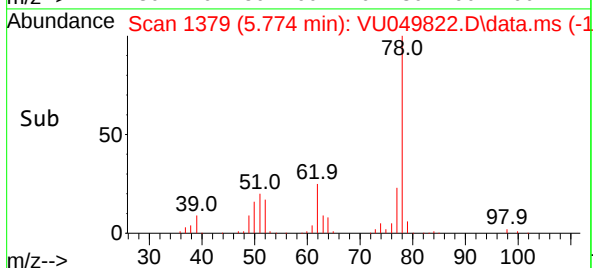
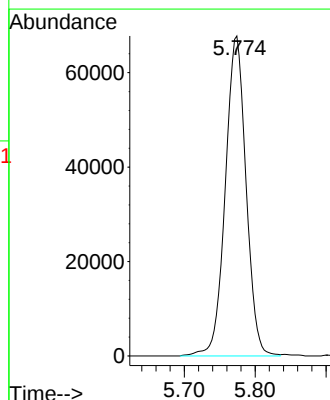
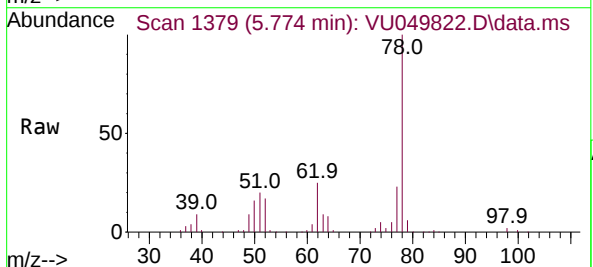
Instrument :
MSVOA_U
ClientSampleId :

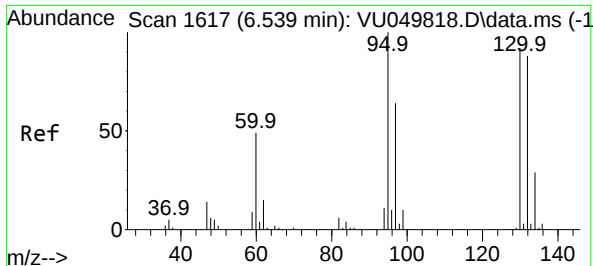
Tgt Ion:117 Resp: 43803
Ion Ratio Lower Upper
117 100
119 97.1 75.8 113.8



#33
Benzene
Concen: 19.316 ug/L
RT: 5.774 min Scan# 1379
Delta R.T. 0.000 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

Tgt Ion: 78 Resp: 137711





#34

Trichloroethene

Concen: 47.829 ug/L

RT: 6.539 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 82428

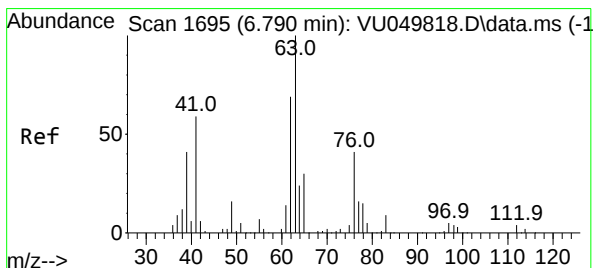
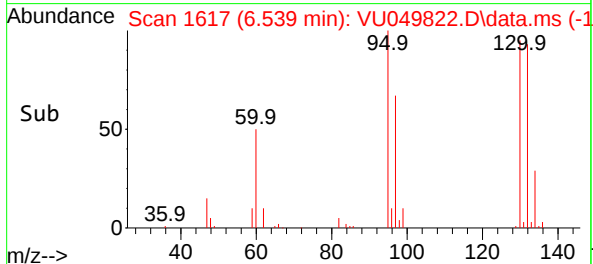
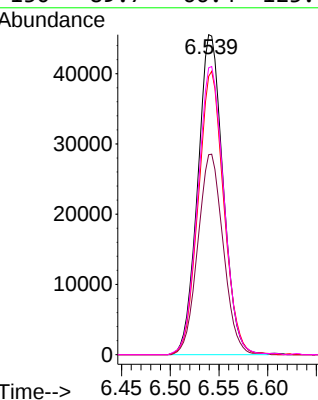
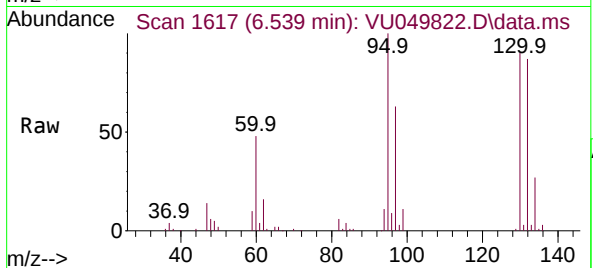
Ion Ratio Lower Upper

95 100

97 62.5 46.9 87.1

132 87.0 62.7 116.5

130 89.7 66.4 123.4



#37

1,2-Dichloropropane

Concen: 19.983 ug/L

RT: 6.790 min Scan# 1695

Delta R.T. 0.000 min

Lab File: VU049822.D

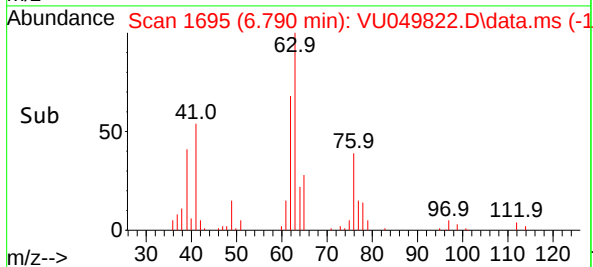
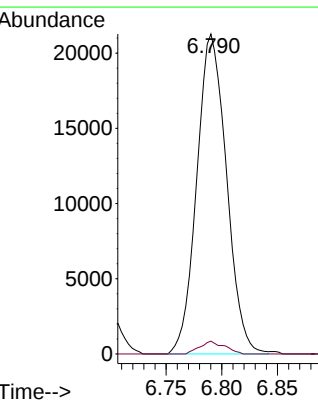
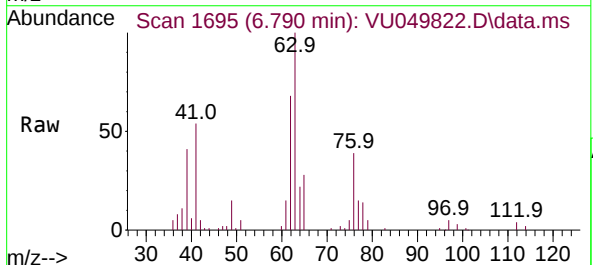
Acq: 21 Jul 2022 12:09

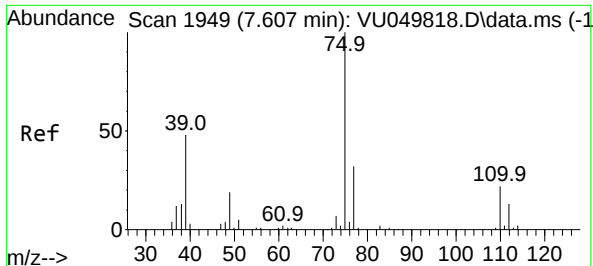
Tgt Ion: 63 Resp: 39489

Ion Ratio Lower Upper

63 100

112 2.6 2.8 4.2#





#39

cis-1,3-Dichloropropene

Concen: 0.944 ug/L

RT: 7.565 min Scan# 1949

Delta R.T. -0.042 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

Instrument :

MSVOA_U

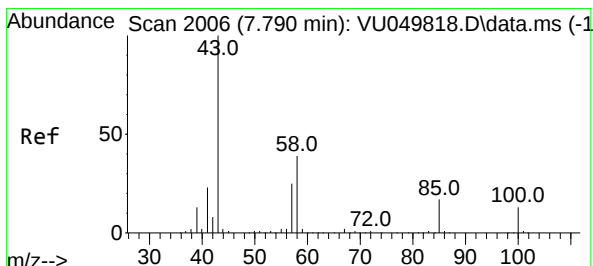
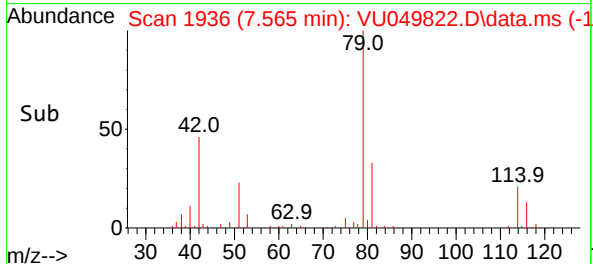
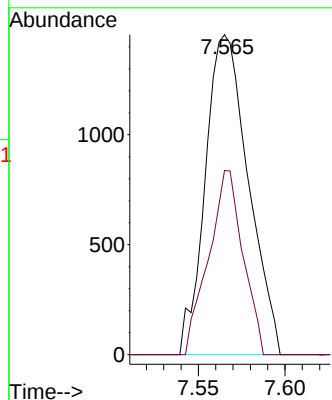
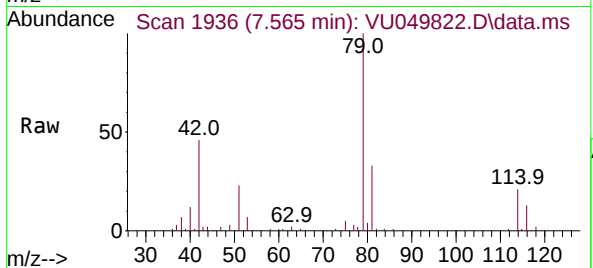
ClientSampleId :

Tgt Ion: 75 Resp: 2515

Ion Ratio Lower Upper

75 100

77 91.3 22.6 42.0#



#40

4-Methyl-2-pentanone

Concen: 40.753 ug/L

RT: 7.793 min Scan# 2007

Delta R.T. 0.003 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

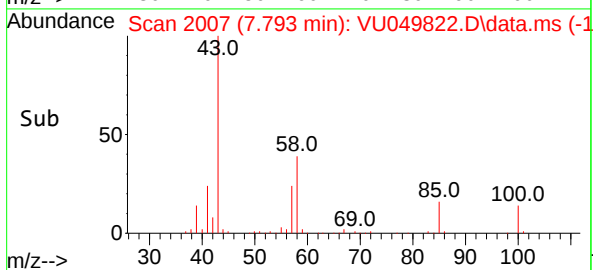
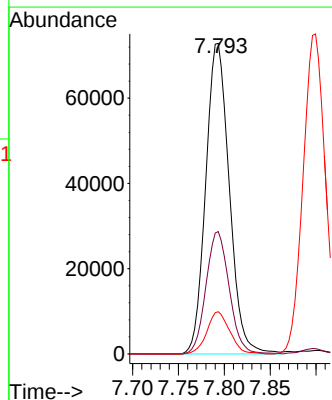
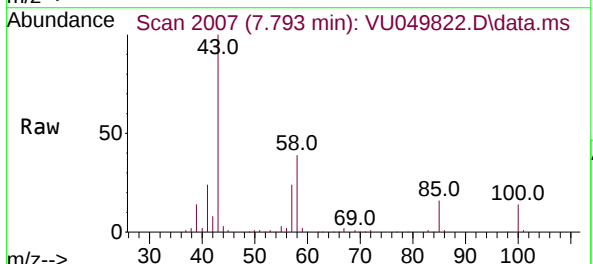
Tgt Ion: 43 Resp: 130373

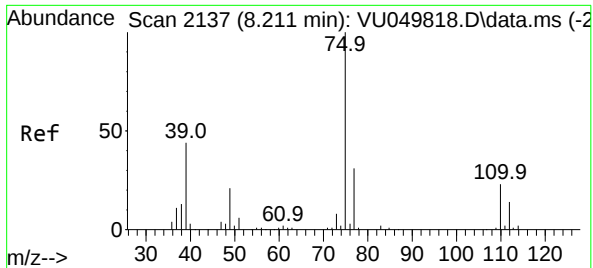
Ion Ratio Lower Upper

43 100

58 38.8 31.4 47.0

100 13.2 10.3 15.5

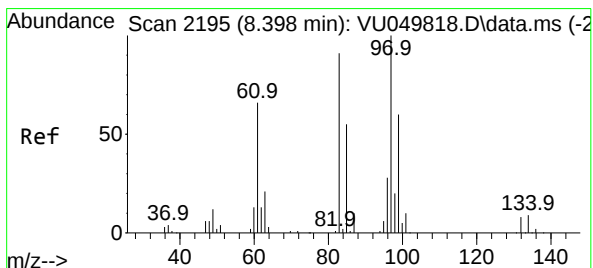
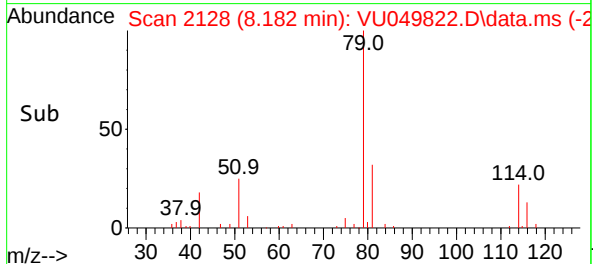
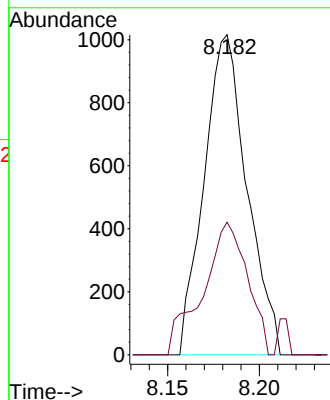
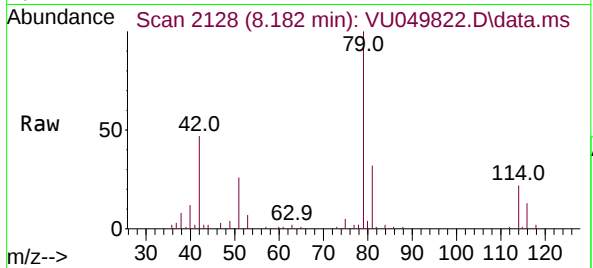




#44
trans-1,3-Dichloropropene
Concen: 0.660 ug/L
RT: 8.182 min Scan# 2137
Delta R.T. -0.029 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

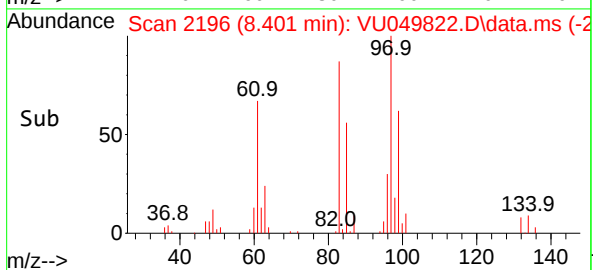
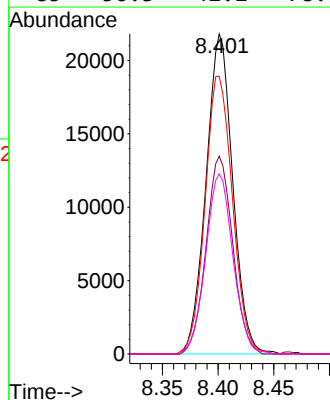
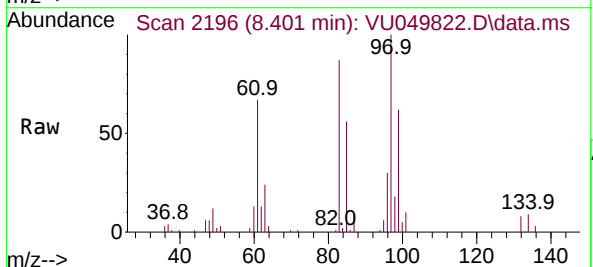
Instrument :
MSVOA_U
ClientSampleId :

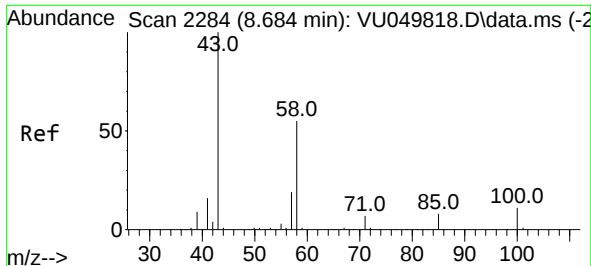
Tgt Ion: 75 Resp: 1652
Ion Ratio Lower Upper
75 100
77 41.4 22.5 41.9



#45
1,1,2-Trichloroethane
Concen: 21.102 ug/L
RT: 8.401 min Scan# 2196
Delta R.T. 0.003 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

Tgt Ion: 97 Resp: 36398
Ion Ratio Lower Upper
97 100
99 61.8 44.3 82.3
83 86.8 64.0 118.8
85 56.3 42.2 78.4

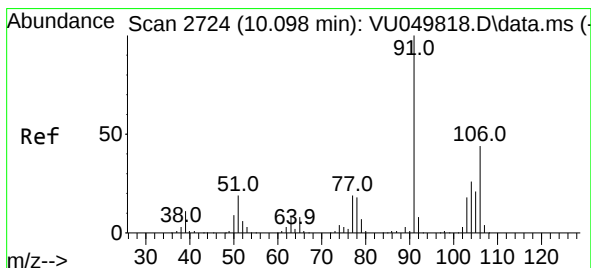
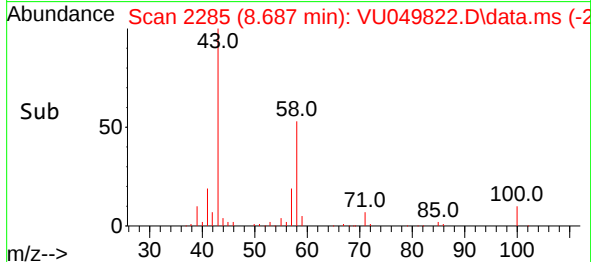
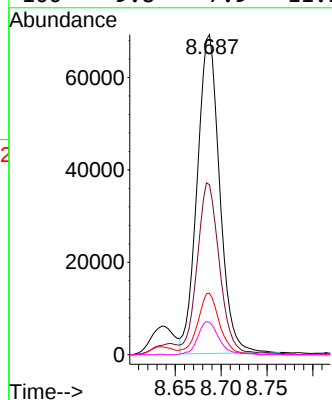
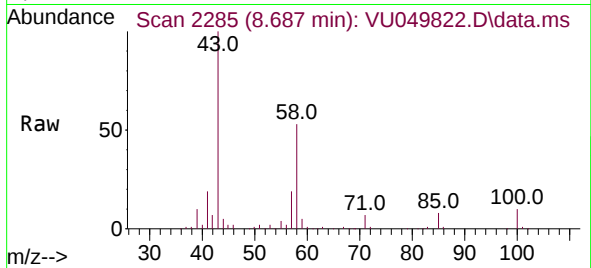




#48
2-Hexanone
Concen: 45.925 ug/L
RT: 8.687 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

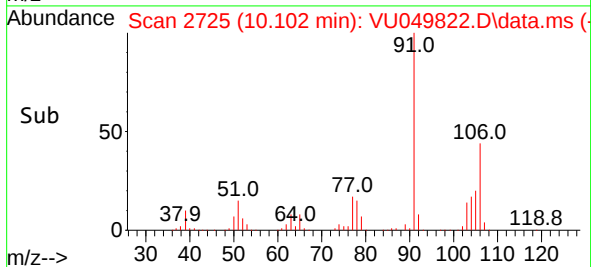
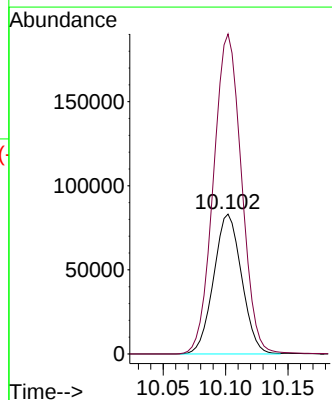
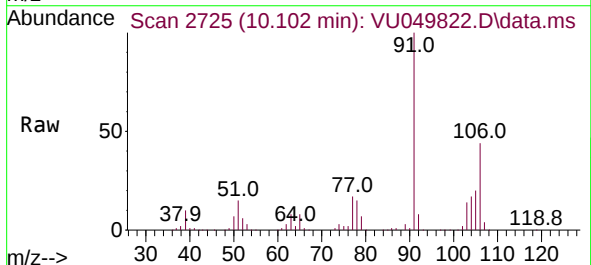
Instrument :
MSVOA_U
ClientSampleId :

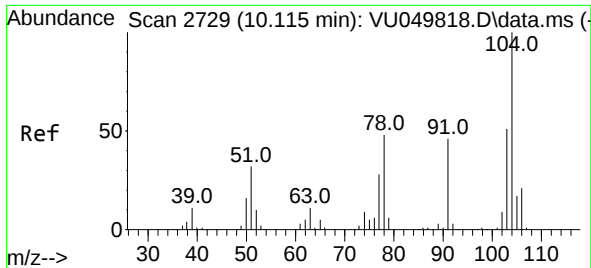
Tgt Ion: 43 Resp: 117407
Ion Ratio Lower Upper
43 100
58 51.4 42.6 64.0
57 18.1 15.0 22.6
100 9.8 7.9 11.9



#54
o-Xylene
Concen: 47.485 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. 0.003 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

Tgt Ion: 106 Resp: 130000
Ion Ratio Lower Upper
106 100
91 228.8 156.9 291.5

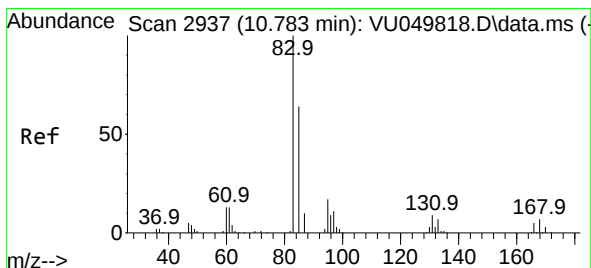
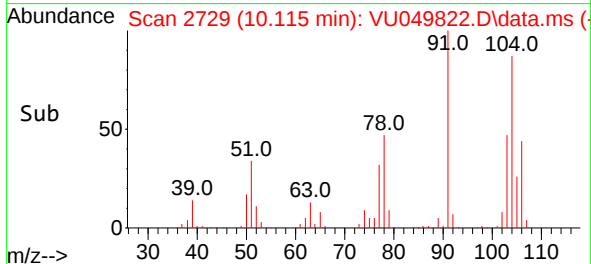
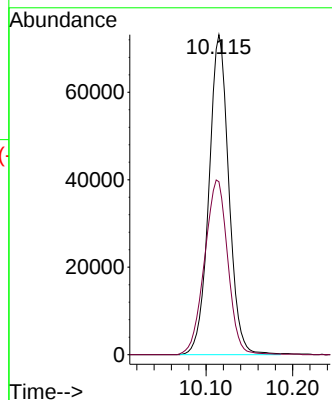
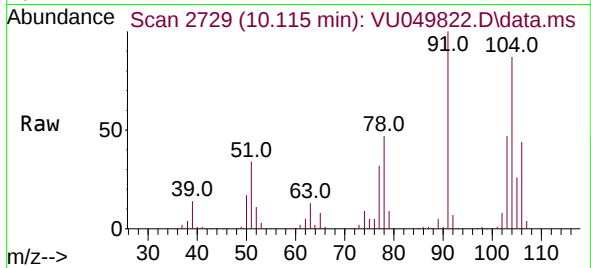




#55
Styrene
Concen: 25.873 ug/L
RT: 10.115 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

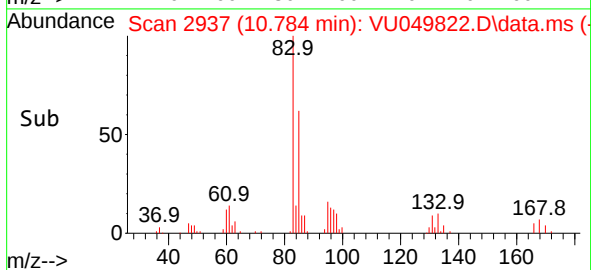
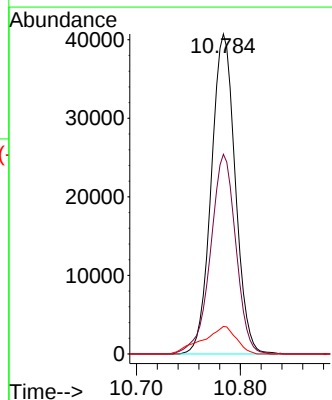
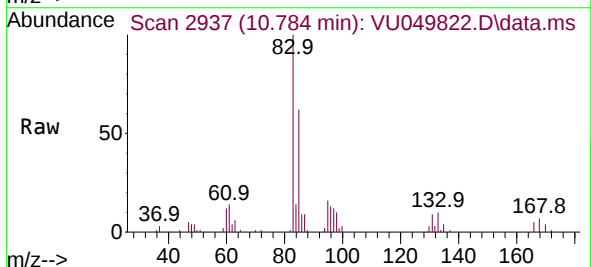
Instrument :
MSVOA_U
ClientSampleId :

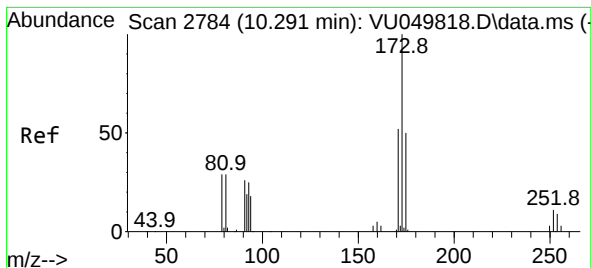
Tgt Ion:104 Resp: 116898
Ion Ratio Lower Upper
104 100
78 54.1 36.1 67.1



#57
1,1,2,2-Tetrachloroethane
Concen: 21.109 ug/L
RT: 10.784 min Scan# 2937
Delta R.T. 0.000 min
Lab File: VU049822.D
Acq: 21 Jul 2022 12:09

Tgt Ion: 83 Resp: 65175
Ion Ratio Lower Upper
83 100
85 62.4 45.0 83.6
131 8.6 7.0 10.6





#59

Bromoform

Concen: 22.213 ug/L

RT: 10.292 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU049822.D

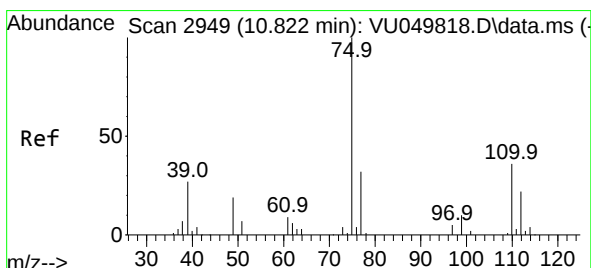
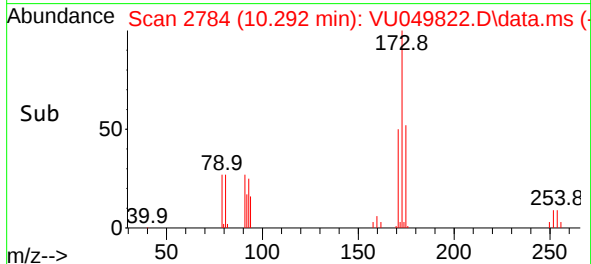
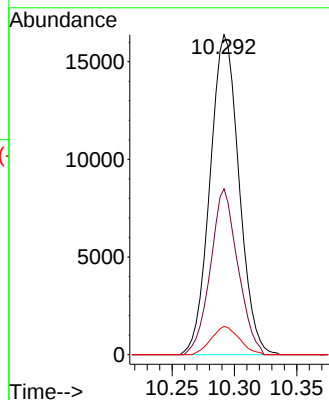
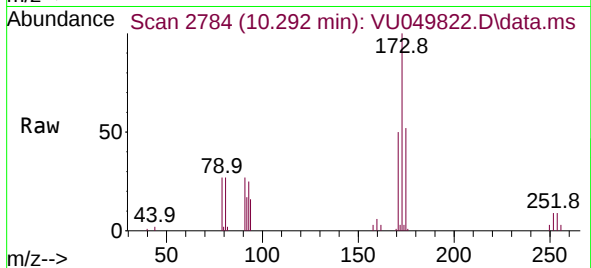
Acq: 21 Jul 2022 12:09

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:173	Resp:	26581
Ion Ratio	Lower	Upper
173	100	
175	48.9	38.6 58.0
254	8.6	7.4 11.0



#60

1,2,3-Trichloropropane

Concen: 3.864 ug/L

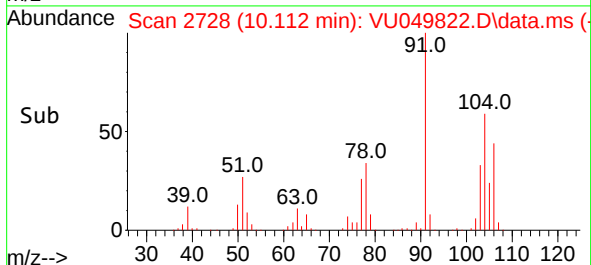
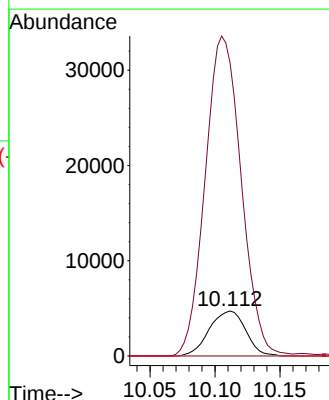
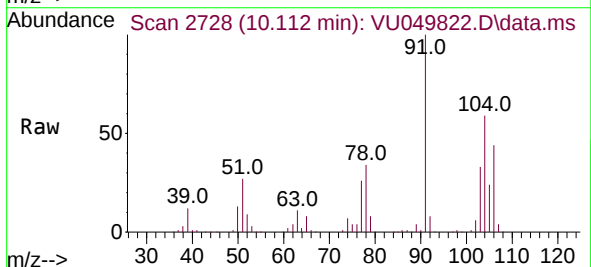
RT: 10.112 min Scan# 2728

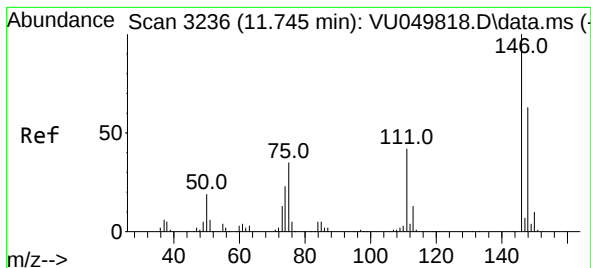
Delta R.T. -0.710 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

Tgt Ion: 75	Resp:	9183
Ion Ratio	Lower	Upper
75	100	
77	705.2	25.5 38.3#
110	0.0	28.9 43.3#





#64

1,3-Dichlorobenzene

Concen: 20.444 ug/L

RT: 11.838 min Scan# 31

Delta R.T. 0.094 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

Instrument :

MSVOA_U

ClientSampleId :

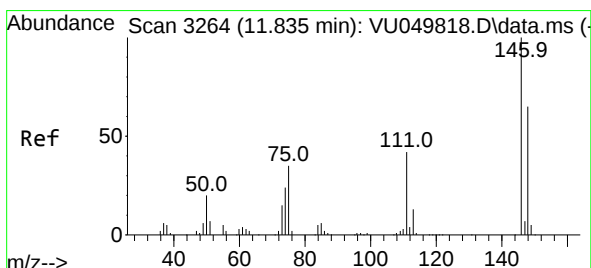
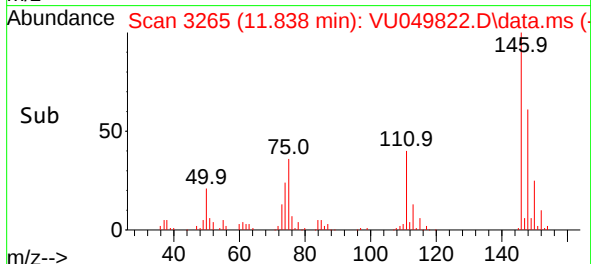
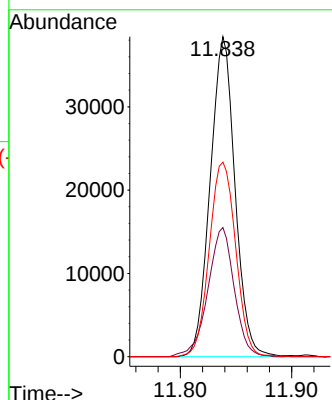
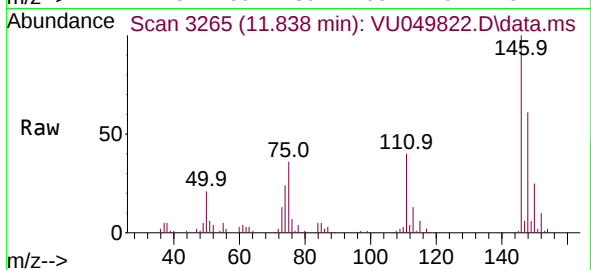
Tgt Ion:146 Resp: 59453

Ion Ratio Lower Upper

146 100

111 40.3 30.0 55.6

148 60.8 45.1 83.9



#65

1,4-Dichlorobenzene

Concen: 20.352 ug/L

RT: 11.838 min Scan# 3265

Delta R.T. 0.003 min

Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

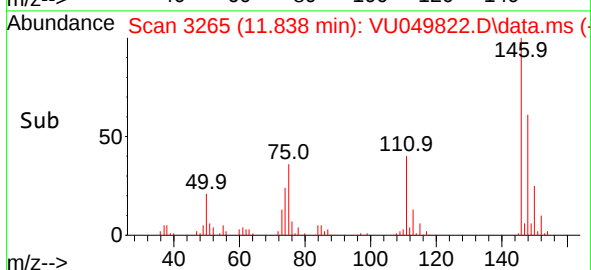
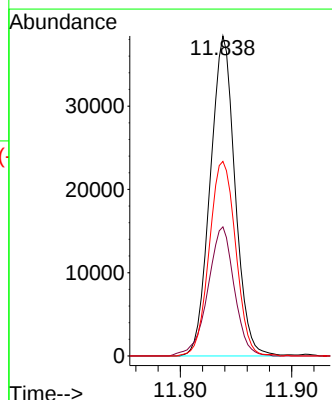
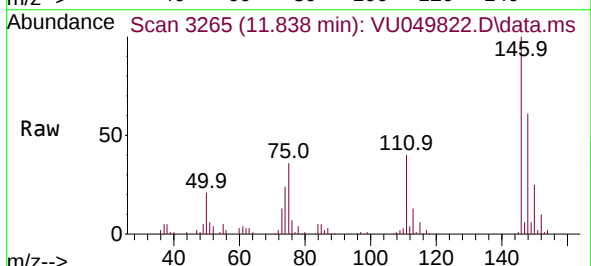
Tgt Ion:146 Resp: 59453

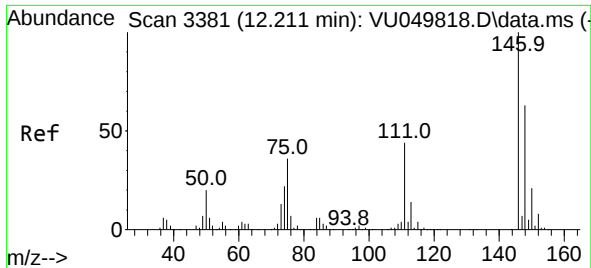
Ion Ratio Lower Upper

146 100

111 40.3 29.1 54.1

148 60.8 44.4 82.4





#67

1,2-Dichlorobenzene

Concen: 26.039 ug/L

RT: 12.214 min Scan# 31

Delta R.T. 0.003 min

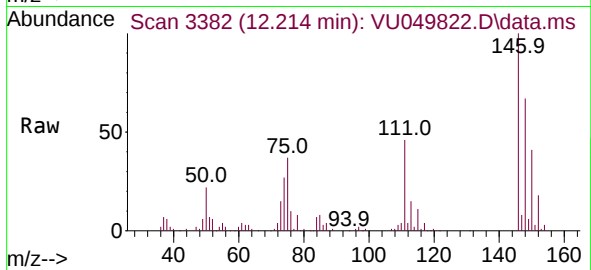
Lab File: VU049822.D

Acq: 21 Jul 2022 12:09

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:146 Resp: 78741

Ion Ratio Lower Upper

146 100

111 46.0 35.8 53.8

148 66.7 52.7 79.1

