

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032522\
 Data File : VU047692.D
 Acq On : 25 Mar 2022 22:57
 Operator : SY/MD
 Sample : N2082-17
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 EW619

Quant Time: Mar 26 04:24:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM032422WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Mar 26 02:50:24 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	323099	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	332363	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	187243	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	92857	39.632	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.260%
7) Chloroethane-d5	1.916	69	74822	40.500	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	81.000%
11) 1,1-Dichloroethene-d2	2.572	63	138233	32.247	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.500%
21) 2-Butanone-d5	4.636	46	172742	85.897	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	85.900%
24) Chloroform-d	5.067	84	172576	40.255	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.500%
26) 1,2-Dichloroethane-d4	5.703	65	109505	41.647	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.300%
32) Benzene-d6	5.729	84	350768	41.942	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	83.880%
36) 1,2-Dichloropropane-d6	6.690	67	111795	43.527	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.060%
41) Toluene-d8	7.899	98	322903	39.629	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.260%#
43) trans-1,3-Dichloroprop...	8.179	79	47838	36.764	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	73.520%
47) 2-Hexanone-d5	8.636	63	120983	80.465	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	80.460%
56) 1,1,2,2-Tetrachloroeth...	10.758	84	177191	40.199	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	80.400%
66) 1,2-Dichlorobenzene-d4	12.195	152	143508	43.080	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.160%
Target Compounds						
					Qvalue	
3) Chloromethane	1.523	50	11286	3.940	ug/L	97
5) Vinyl chloride	1.607	62	797971	273.128	ug/L	97
8) Chloroethane	1.938	64	55761	30.403	ug/L	98
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	1202	0.505	ug/L #	18
12) 1,1-Dichloroethene	2.584	96	29137	13.147	ug/L #	48
13) Acetone	2.649	43	25051	13.386	ug/L	98
14) Carbon disulfide	2.800	76	15104	2.156	ug/L	99
16) Methylene chloride	3.051	84	15915	6.258	ug/L	95
17) trans-1,2-Dichloroethene	3.359	96	132949	55.615	ug/L	96
19) 1,1-Dichloroethane	3.874	63	5532039	1341.810	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	5202848	1985.251	ug/L	93
22) 2-Butanone	4.726	43	8057	3.342	ug/L #	1
27) 1,2-Dichloroethane	5.797	62	32881	9.588	ug/L	98
30) 1,1,1-Trichloroethane	5.321	97	313853	83.280	ug/L	98
31) Carbon tetrachloride	5.321	117	42847	12.591	ug/L	97
33) Benzene	5.777	78	28674	2.981	ug/L	100
34) Trichloroethene	6.542	95	254071	100.735	ug/L	98
39) cis-1,3-Dichloropropene	7.565	75	2935	0.773	ug/L #	66
42) Toluene	7.970	91	60817	5.761	ug/L	100

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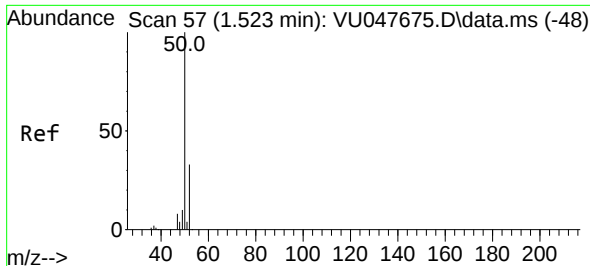
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	8.401	97	15629	6.026	ug/L	92
46) Tetrachloroethene	8.555	164	28951	12.773	ug/L	96
49) Dibromochloromethane	8.555	129	26407	8.790	ug/L #	11
52) Ethylbenzene	9.571	91	112135	10.103	ug/L	99
53) m,p-Xylene	9.693	106	12210	2.804	ug/L	99
54) o-Xylene	10.102	106	55982	13.097	ug/L	96
61) Isopropylbenzene	10.484	105	51638	5.103	ug/L	99
62) 1,3,5-Trimethylbenzene	11.896	105	21774	3.966	ug/L	90
63) 1,2,4-Trimethylbenzene	11.468	105	29244	3.506	ug/L	88
67) 1,2-Dichlorobenzene	12.211	146	49782	8.845	ug/L	98
71) Naphthalene	14.086	128	118647	9.946	ug/L	99

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

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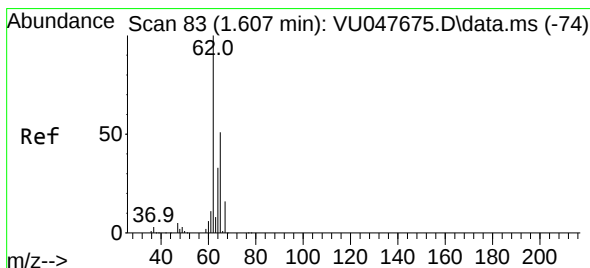
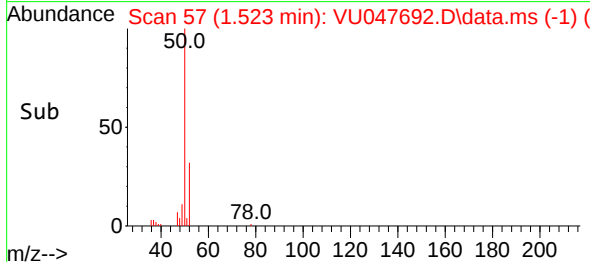
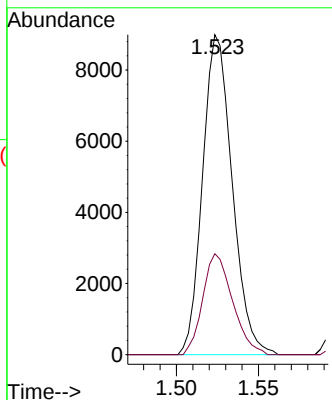
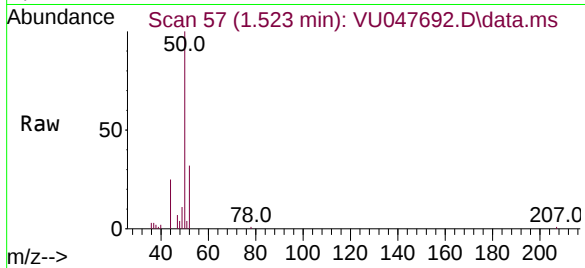




#3
Chloromethane
Concen: 3.940 ug/L
RT: 1.523 min Scan# 51
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

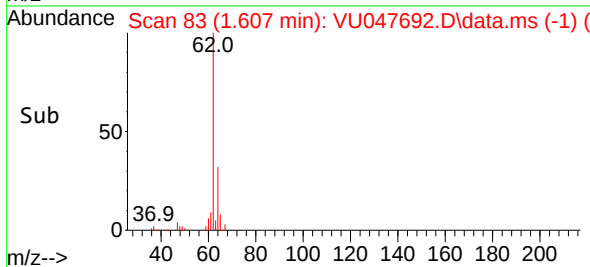
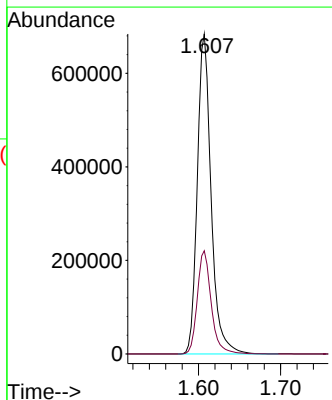
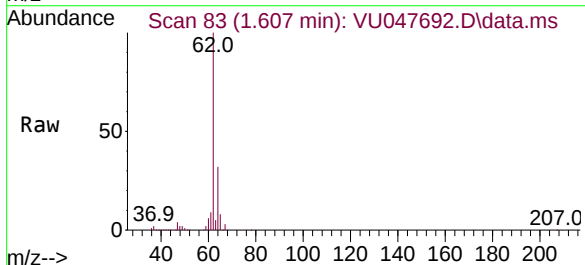
Instrument :
MSVOA_U
ClientSampleId :
EW619

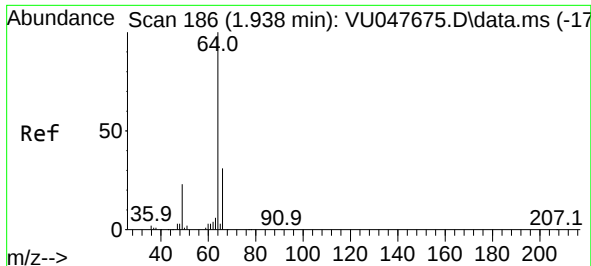
Tgt Ion: 50 Resp: 11286
Ion Ratio Lower Upper
50 100
52 31.6 23.2 43.2



#5
Vinyl chloride
Concen: 273.128 ug/L
RT: 1.607 min Scan# 83
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

Tgt Ion: 62 Resp: 797971
Ion Ratio Lower Upper
62 100
64 32.3 23.7 43.9

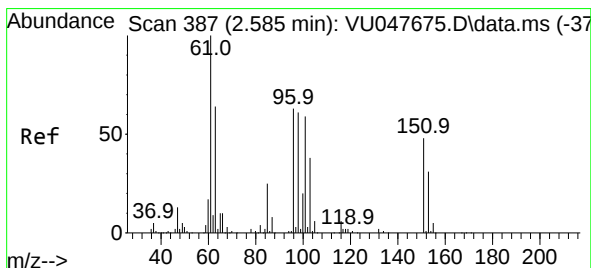
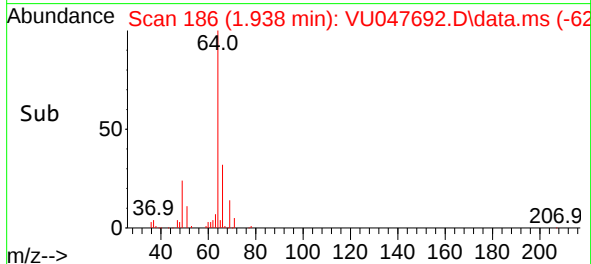
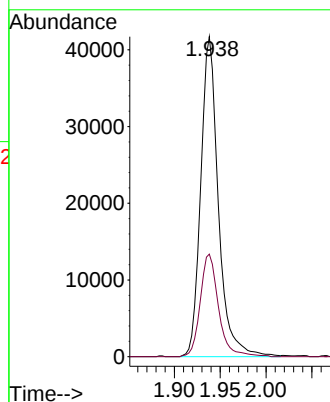
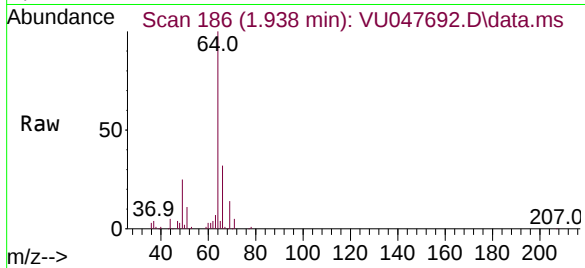




#8
Chloroethane
Concen: 30.403 ug/L
RT: 1.938 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

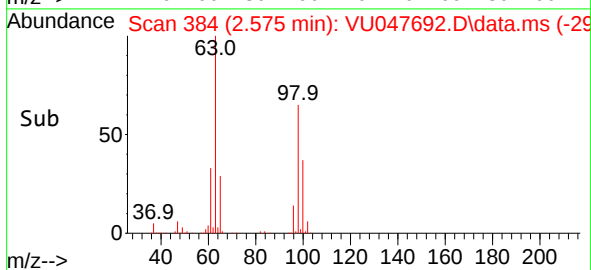
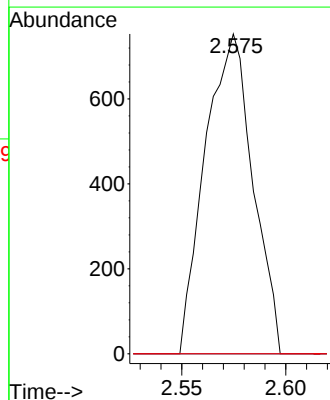
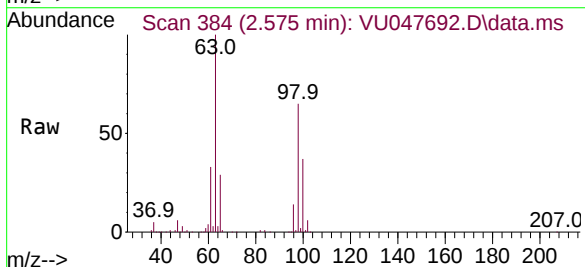
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MSVOA_U
ClientSampleId :
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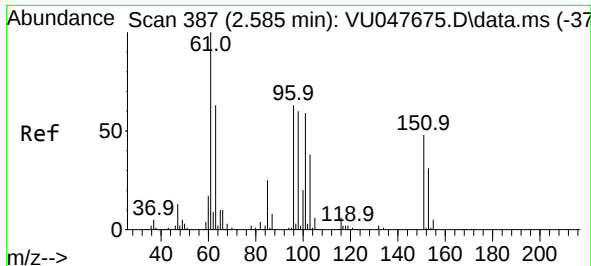
Tgt Ion: 64 Resp: 55761
Ion Ratio Lower Upper
64 100
66 32.0 23.3 43.3



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.505 ug/L
RT: 2.575 min Scan# 384
Delta R.T. -0.010 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

Tgt Ion:101 Resp: 1202
Ion Ratio Lower Upper
101 100
85 0.0 32.8 49.2#
151 0.0 63.0 94.6#





#12

1,1-Dichloroethene

Concen: 13.147 ug/L

RT: 2.584 min Scan# 387

Delta R.T. -0.000 min

Lab File: VU047692.D

Acq: 25 Mar 2022 22:57

Instrument :

MSVOA_U

ClientSampleId :

EW619

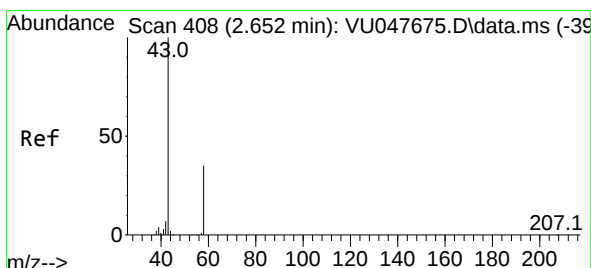
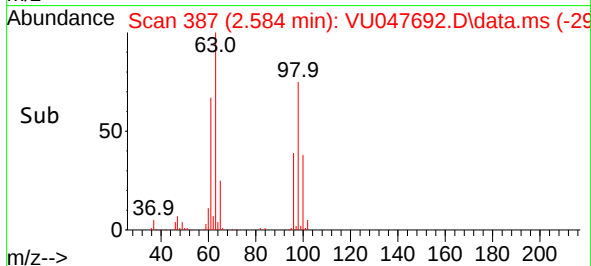
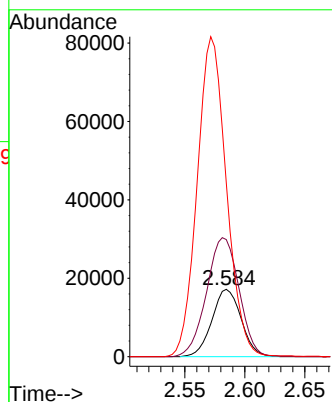
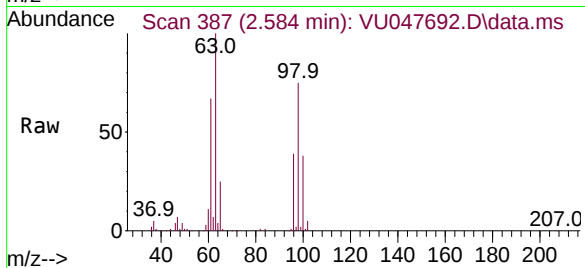
Tgt Ion: 96 Resp: 29137

Ion Ratio Lower Upper

96 100

61 174.0 113.1 210.1

63 258.3 94.8 176.0#



#13

Acetone

Concen: 13.386 ug/L

RT: 2.649 min Scan# 407

Delta R.T. -0.003 min

Lab File: VU047692.D

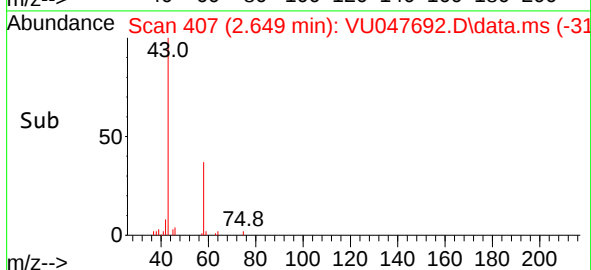
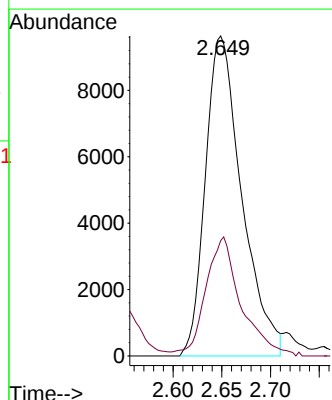
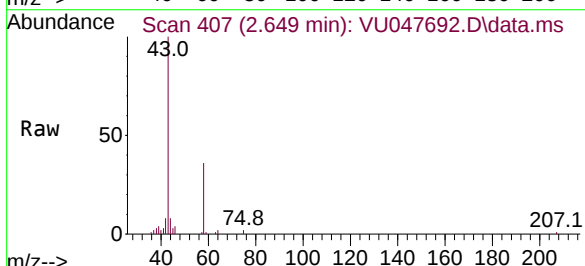
Acq: 25 Mar 2022 22:57

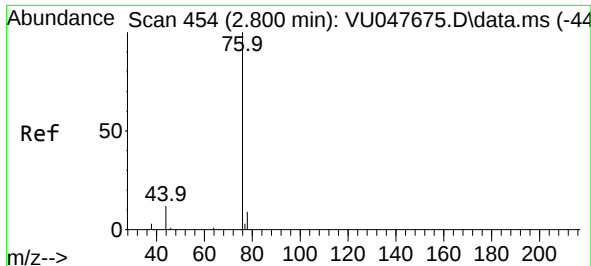
Tgt Ion: 43 Resp: 25051

Ion Ratio Lower Upper

43 100

58 36.0 0.0 70.0

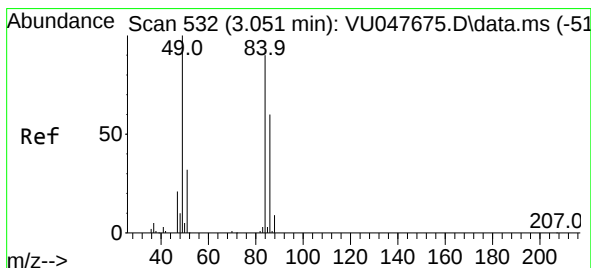
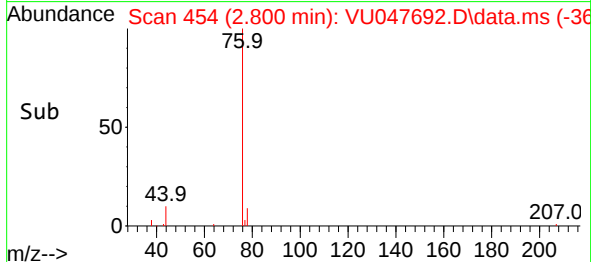
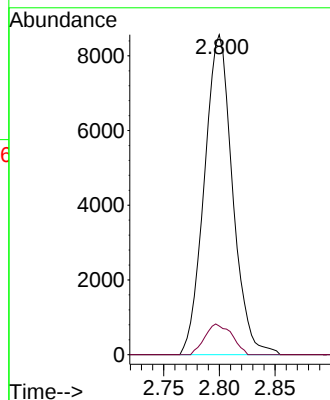
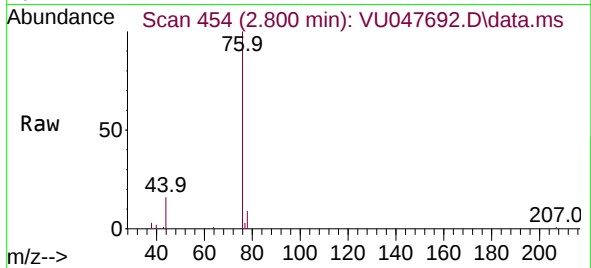




#14
Carbon disulfide
Concen: 2.156 ug/L
RT: 2.800 min Scan# 454
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

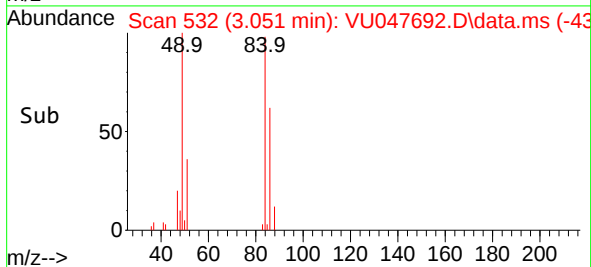
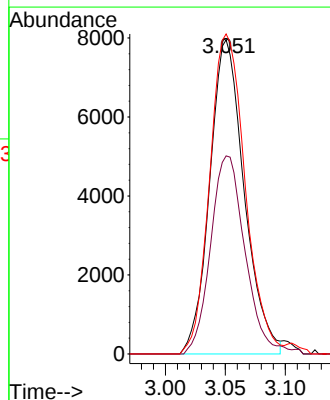
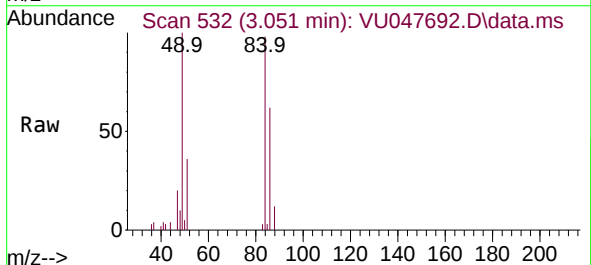
Instrument :
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EW619

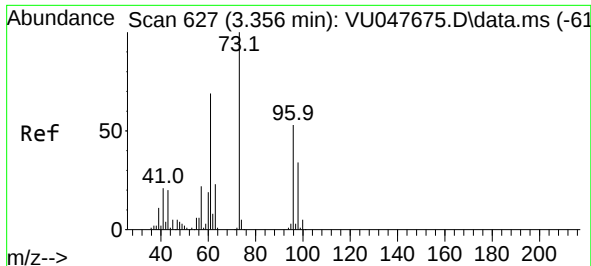
Tgt Ion: 76 Resp: 15104
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.0



#16
Methylene chloride
Concen: 6.258 ug/L
RT: 3.051 min Scan# 532
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

Tgt Ion: 84 Resp: 15915
Ion Ratio Lower Upper
84 100
86 63.1 46.0 85.4
49 101.9 75.3 139.8





#17

trans-1,2-Dichloroethene

Concen: 55.615 ug/L

RT: 3.359 min Scan# 61

Delta R.T. 0.003 min

Lab File: VU047692.D

Acq: 25 Mar 2022 22:57

Instrument :

MSVOA_U

ClientSampleId :

EW619

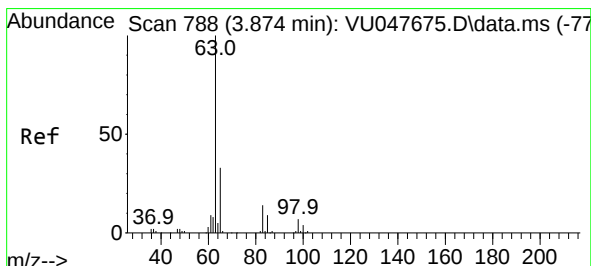
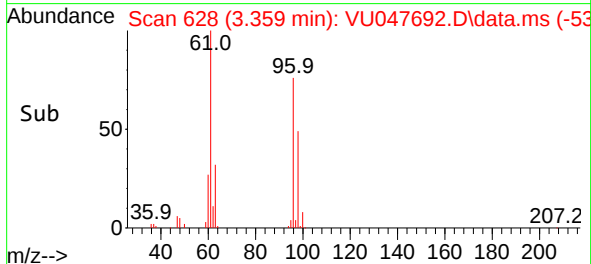
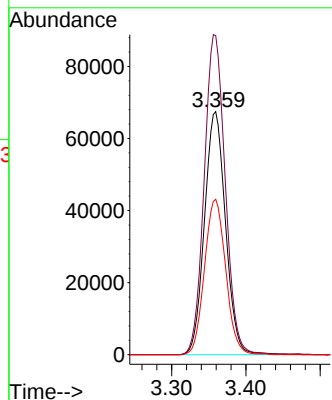
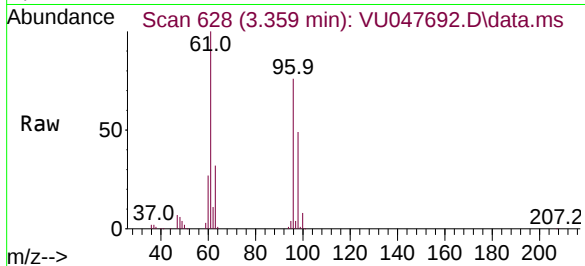
Tgt Ion: 96 Resp: 132949

Ion Ratio Lower Upper

96 100

61 131.4 88.4 164.2

98 64.0 43.3 80.5



#19

1,1-Dichloroethane

Concen: 1341.810 ug/L

RT: 3.874 min Scan# 788

Delta R.T. -0.000 min

Lab File: VU047692.D

Acq: 25 Mar 2022 22:57

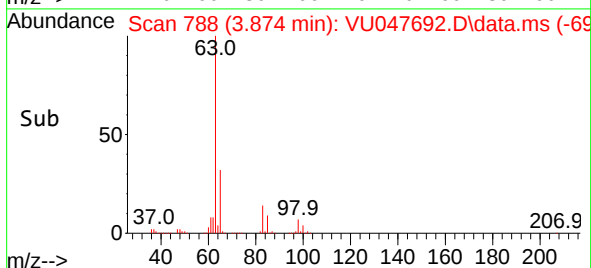
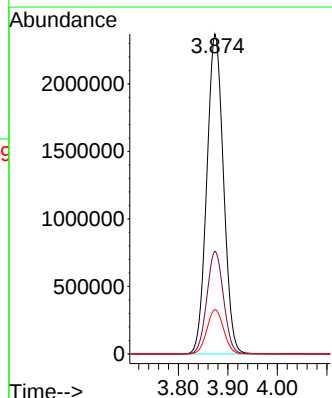
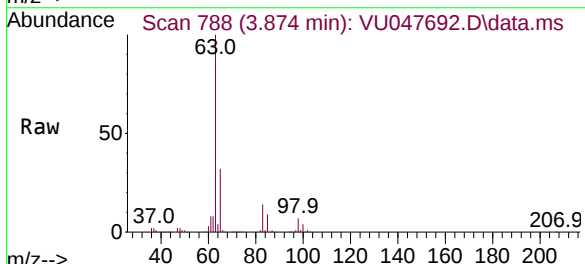
Tgt Ion: 63 Resp: 5532039

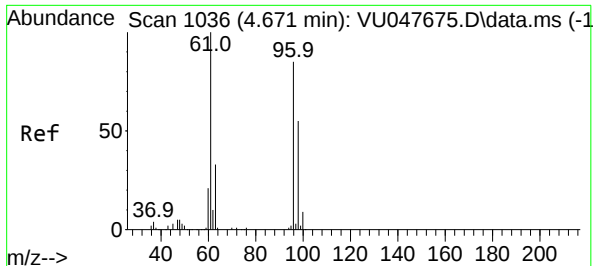
Ion Ratio Lower Upper

63 100

65 32.1 22.0 41.0

83 13.9 9.7 18.1



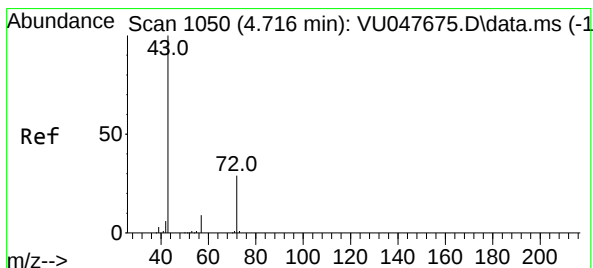
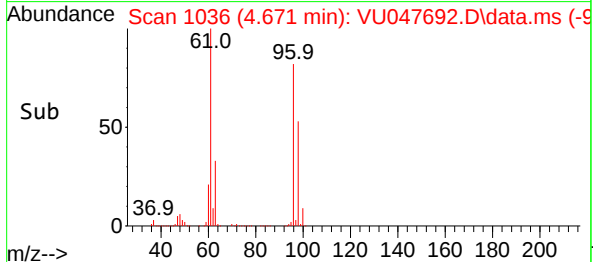
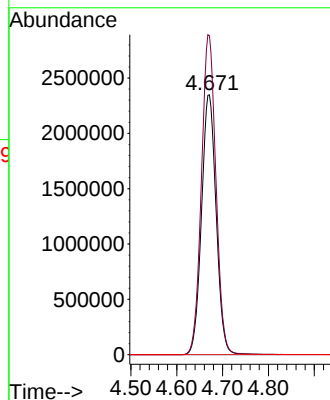
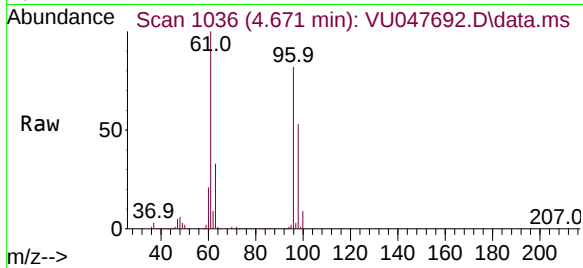


#20
 cis-1,2-Dichloroethene
 Concen: 1985.251 ug/L
 RT: 4.671 min Scan# 1036
 Delta R.T. -0.000 min
 Lab File: VU047692.D
 Acq: 25 Mar 2022 22:57

Instrument :
 MSVOA_U
 ClientSampleId :
 EW619

Tgt Ion: 96 Resp: 5202848

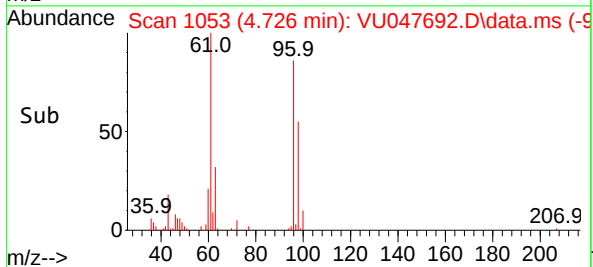
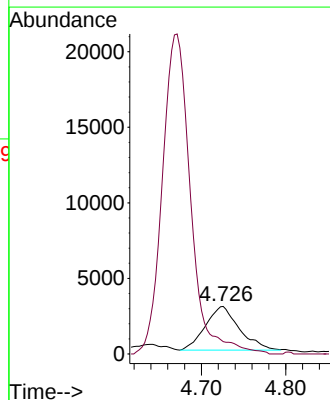
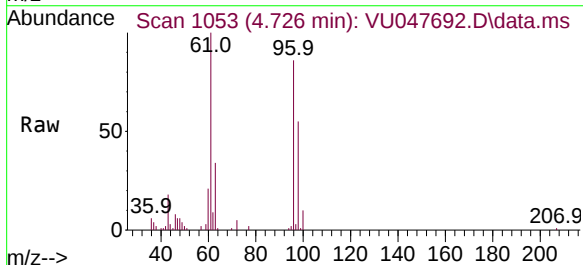
Ion	Ratio	Lower	Upper
96	100		
61	122.7	80.7	149.9
68	0.0	0.0	0.0

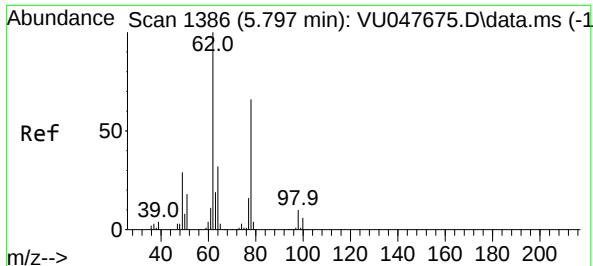


#22
 2-Butanone
 Concen: 3.342 ug/L
 RT: 4.726 min Scan# 1053
 Delta R.T. 0.010 min
 Lab File: VU047692.D
 Acq: 25 Mar 2022 22:57

Tgt Ion: 43 Resp: 8057

Ion	Ratio	Lower	Upper
43	100		
72	612.1	16.0	47.9#

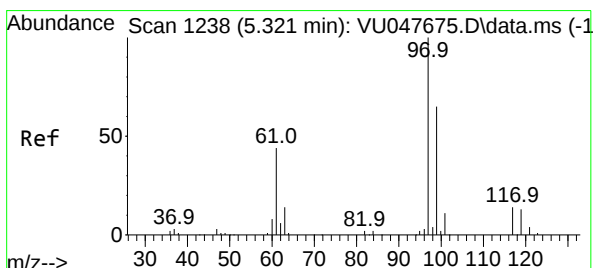
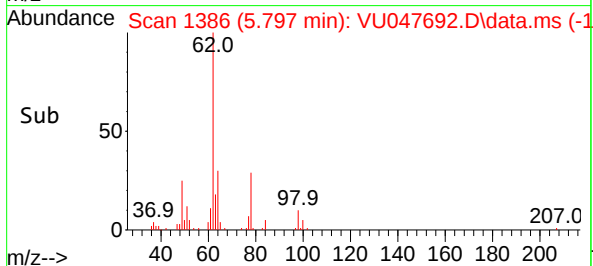
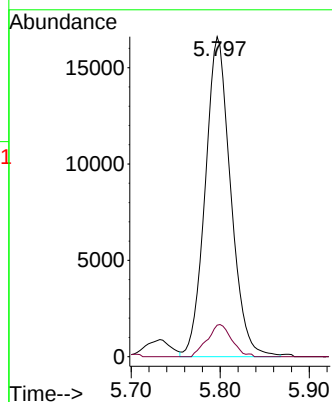
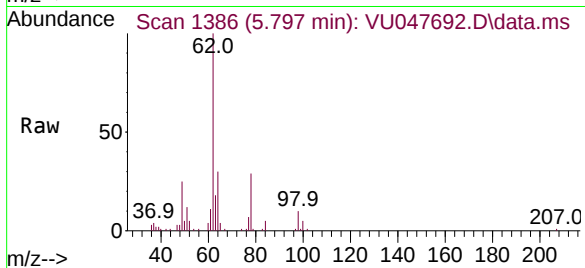




#27
1,2-Dichloroethane
Concen: 9.588 ug/L
RT: 5.797 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

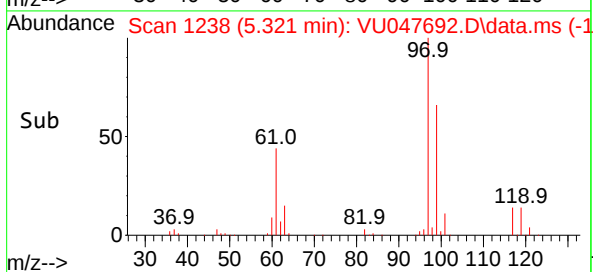
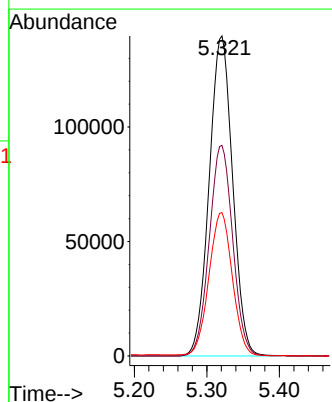
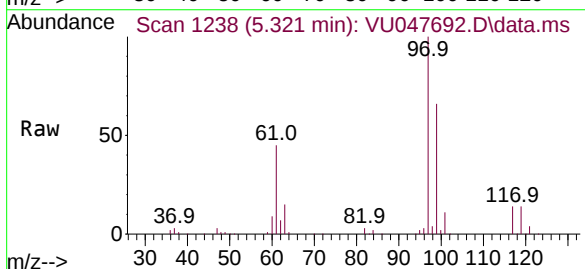
Instrument :
MSVOA_U
ClientSampleId :
EW619

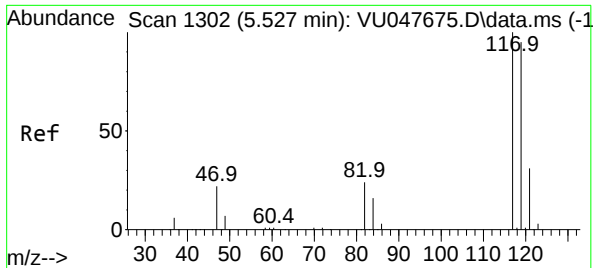
Tgt Ion: 62 Resp: 32881
Ion Ratio Lower Upper
62 100
98 9.9 7.4 11.0



#30
1,1,1-Trichloroethane
Concen: 83.280 ug/L
RT: 5.321 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

Tgt Ion: 97 Resp: 313853
Ion Ratio Lower Upper
97 100
99 66.0 51.6 77.4
61 44.8 34.2 51.4

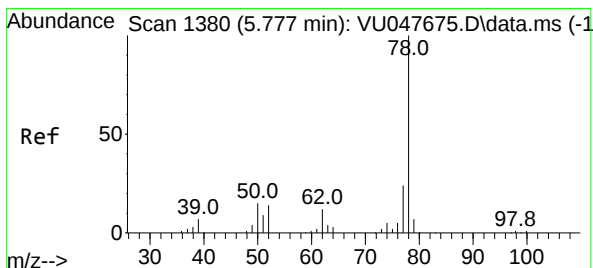
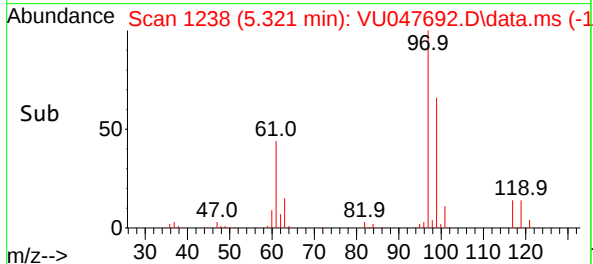
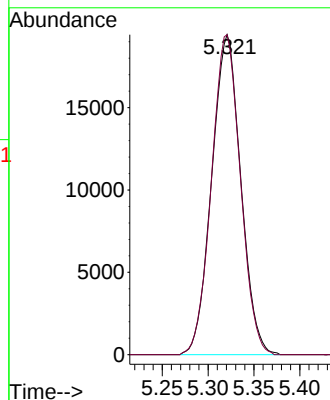
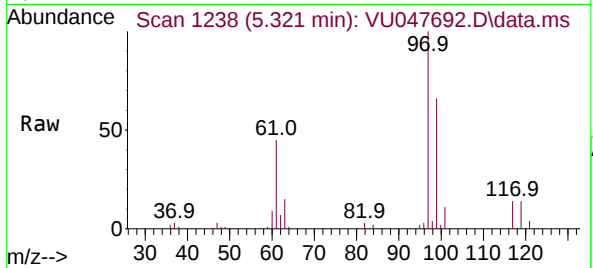




#31
Carbon tetrachloride
Concen: 12.591 ug/L
RT: 5.321 min Scan# 117
Delta R.T. -0.206 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

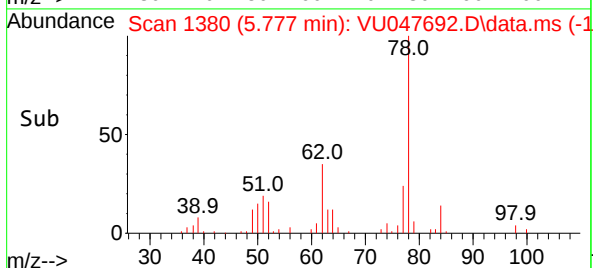
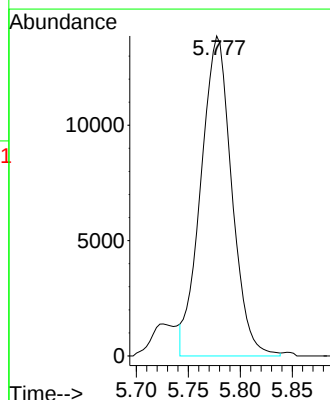
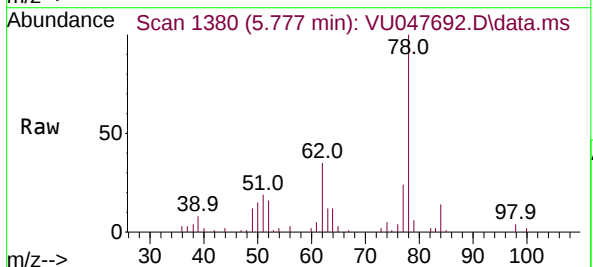
Instrument :
MSVOA_U
ClientSampleId :
EW619

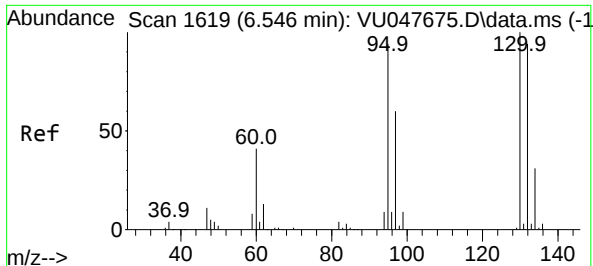
Tgt Ion:117 Resp: 42847
Ion Ratio Lower Upper
117 100
119 99.4 77.2 115.8



#33
Benzene
Concen: 2.981 ug/L
RT: 5.777 min Scan# 1380
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

Tgt Ion: 78 Resp: 28674

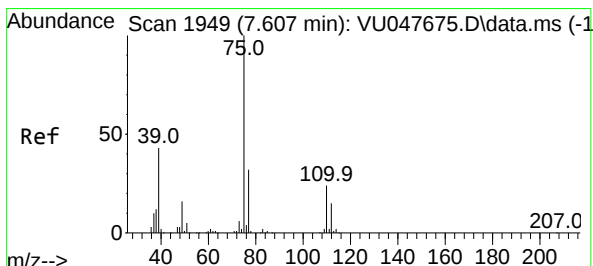
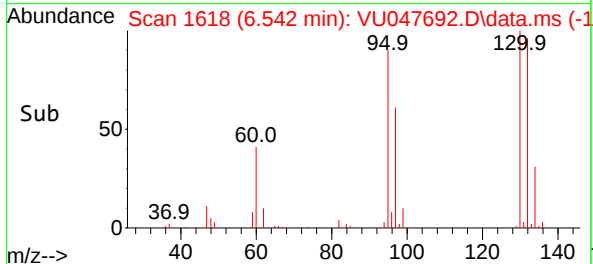
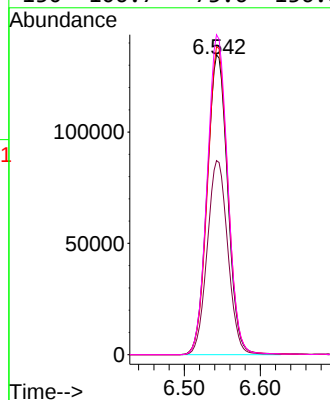
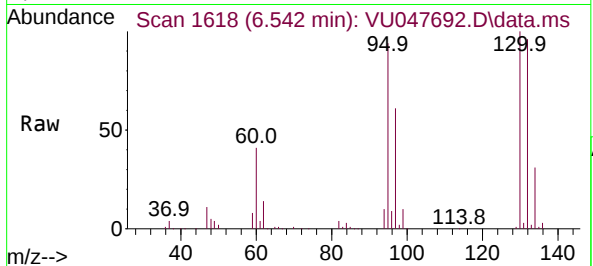




#34
 Trichloroethene
 Concen: 100.735 ug/L
 RT: 6.542 min Scan# 1
 Delta R.T. -0.003 min
 Lab File: VU047692.D
 Acq: 25 Mar 2022 22:57

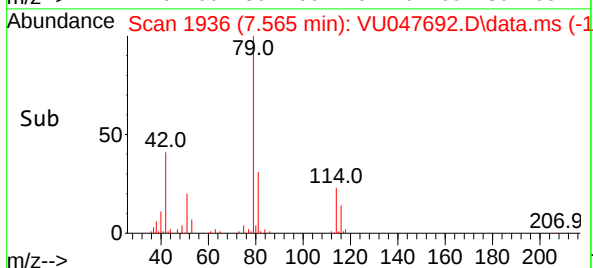
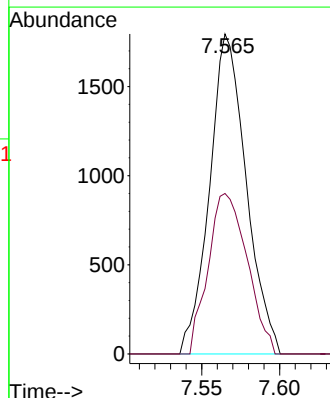
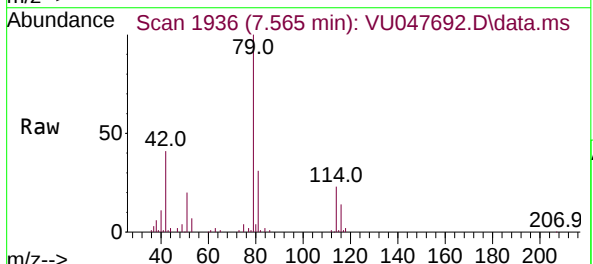
Instrument :
 MSVOA_U
 ClientSampleId :
 EW619

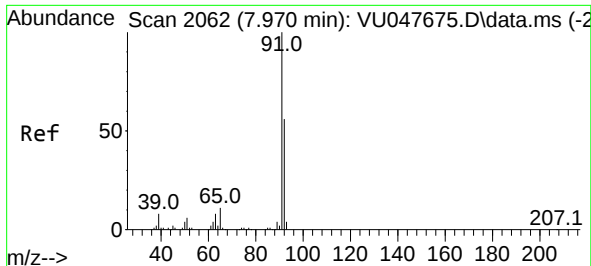
Tgt Ion: 95 Resp: 254071
 Ion Ratio Lower Upper
 95 100
 97 64.8 44.7 82.9
 132 102.8 70.4 130.8
 130 106.7 73.6 136.8



#39
 cis-1,3-Dichloropropene
 Concen: 0.773 ug/L
 RT: 7.565 min Scan# 1936
 Delta R.T. -0.042 min
 Lab File: VU047692.D
 Acq: 25 Mar 2022 22:57

Tgt Ion: 75 Resp: 2935
 Ion Ratio Lower Upper
 75 100
 77 50.1 21.8 40.6#





#42

Toluene

Concen: 5.761 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VU047692.D

Acq: 25 Mar 2022 22:57

Instrument :

MSVOA_U

ClientSampleId :

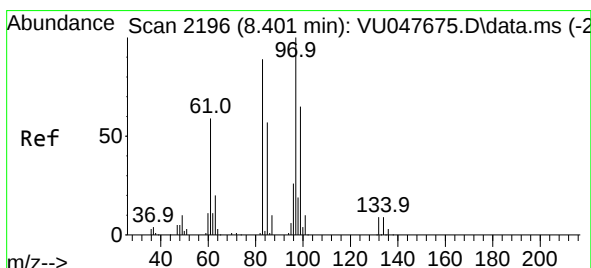
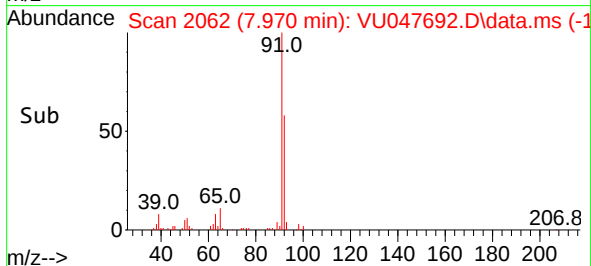
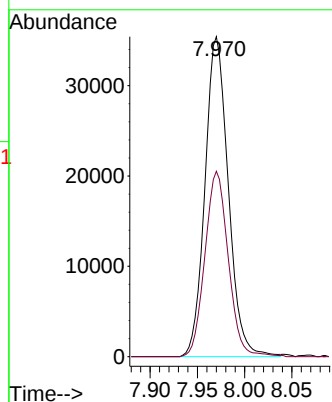
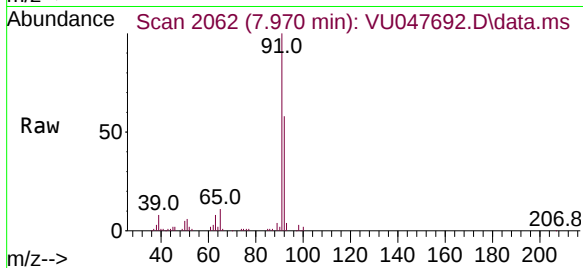
EW619

Tgt Ion: 91 Resp: 60817

Ion Ratio Lower Upper

91 100

92 57.9 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 6.026 ug/L

RT: 8.401 min Scan# 2196

Delta R.T. -0.000 min

Lab File: VU047692.D

Acq: 25 Mar 2022 22:57

Tgt Ion: 97 Resp: 15629

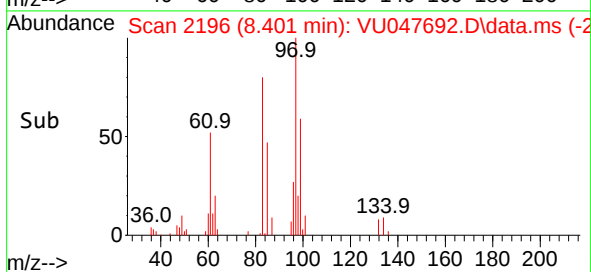
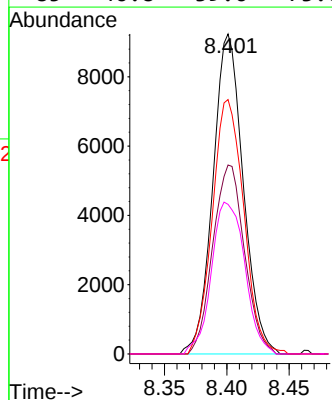
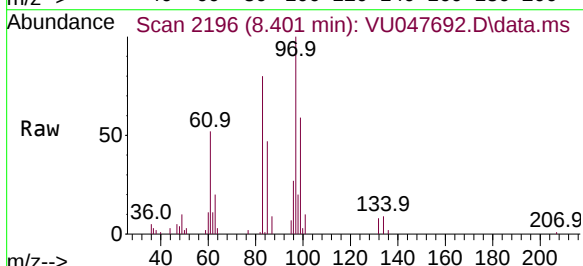
Ion Ratio Lower Upper

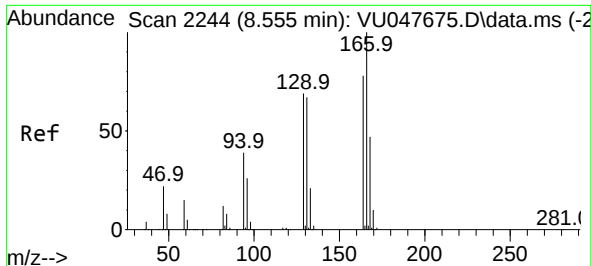
97 100

99 59.1 43.3 80.3

83 79.5 61.0 113.4

85 46.8 39.6 73.6

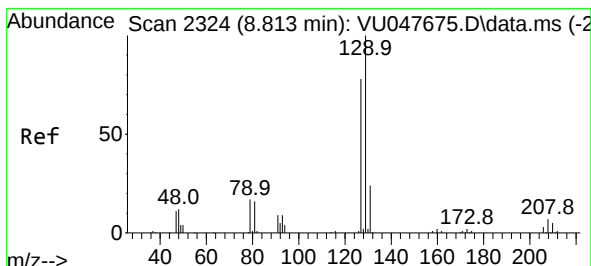
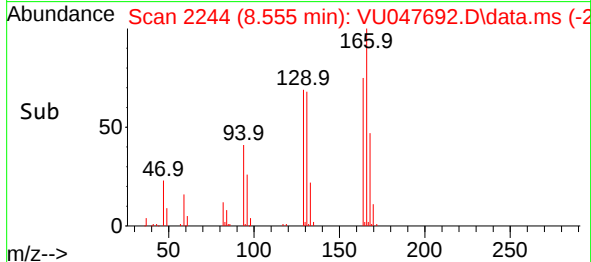
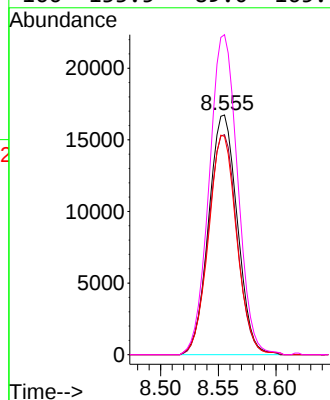
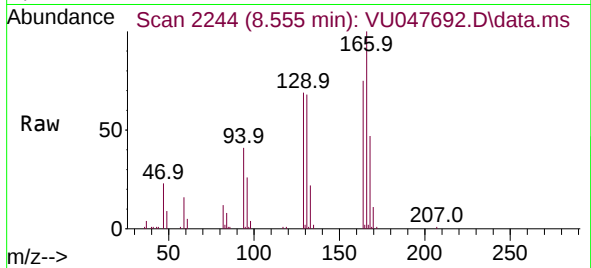




#46
Tetrachloroethene
Concen: 12.773 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

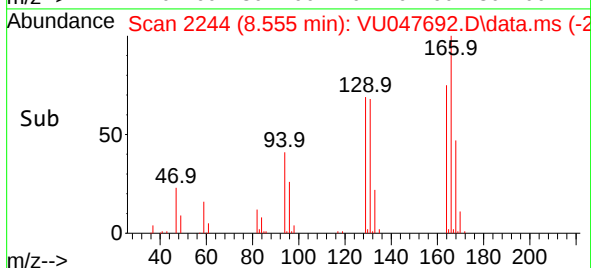
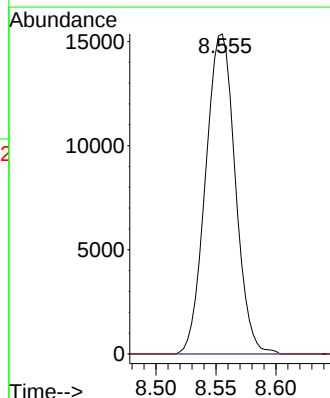
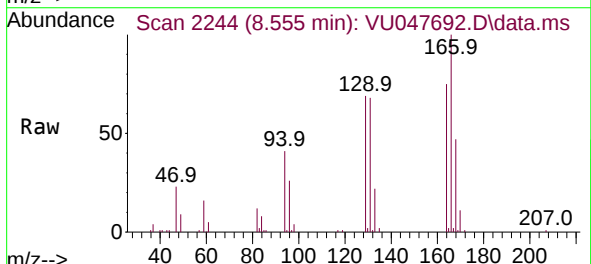
Instrument :
MSVOA_U
ClientSampleId :
EW619

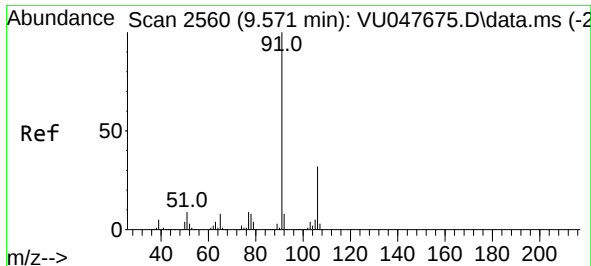
Tgt Ion:	164	Resp:	28951
Ion	Ratio	Lower	Upper
164	100		
129	91.8	62.4	116.0
131	91.0	60.7	112.7
166	133.5	89.0	165.4



#49
Dibromochloromethane
Concen: 8.790 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.257 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

Tgt Ion:	129	Resp:	26407
Ion	Ratio	Lower	Upper
129	100		
127	0.0	54.2	100.6#

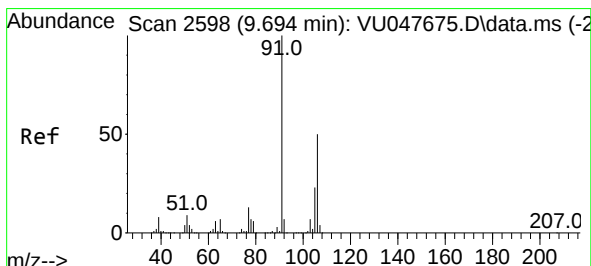
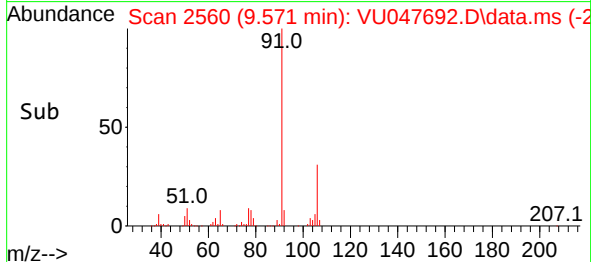
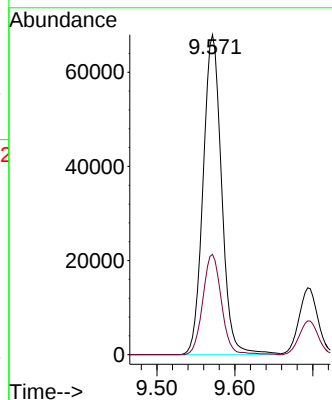
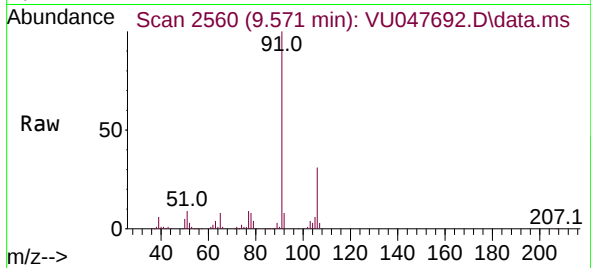




#52
Ethylbenzene
Concen: 10.103 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

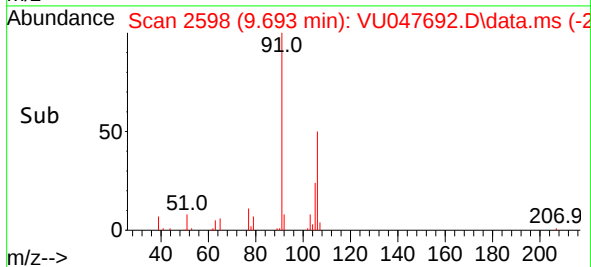
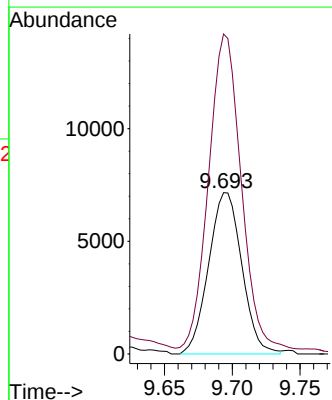
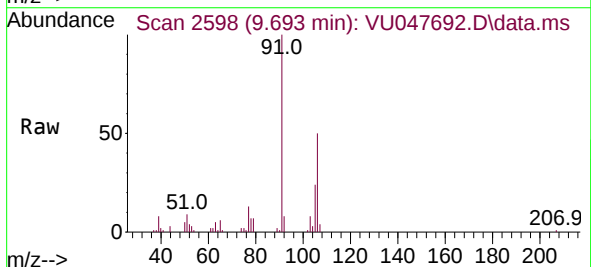
Instrument :
MSVOA_U
ClientSampleId :
EW619

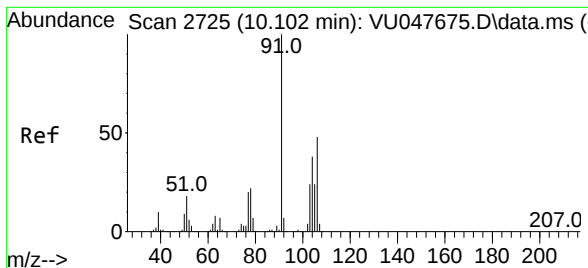
Tgt Ion: 91 Resp: 112135
Ion Ratio Lower Upper
91 100
106 31.3 22.4 41.6



#53
m,p-Xylene
Concen: 2.804 ug/L
RT: 9.693 min Scan# 2598
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

Tgt Ion:106 Resp: 12210
Ion Ratio Lower Upper
106 100
91 198.4 137.7 255.7





#54

o-Xylene

Concen: 13.097 ug/L

RT: 10.102 min Scan# 2725

Delta R.T. -0.000 min

Lab File: VU047692.D

Acq: 25 Mar 2022 22:57

Instrument :

MSVOA_U

ClientSampleId :

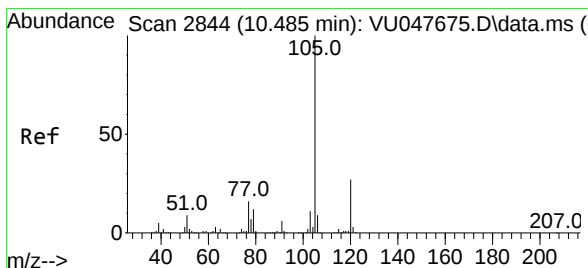
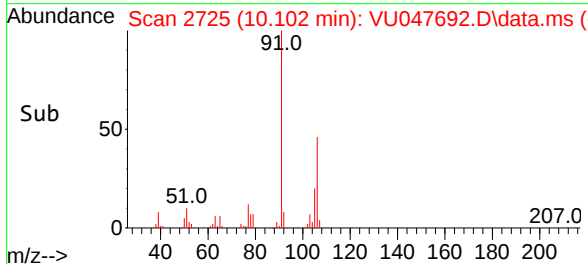
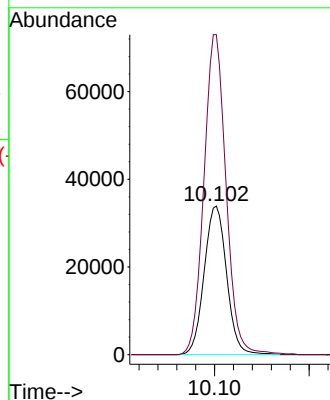
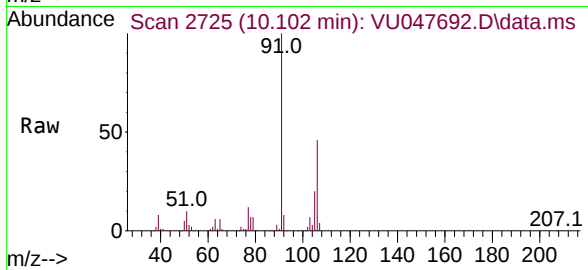
EW619

Tgt Ion:106 Resp: 55982

Ion Ratio Lower Upper

106 100

91 215.3 146.7 272.5



#61

Isopropylbenzene

Concen: 5.103 ug/L

RT: 10.484 min Scan# 2844

Delta R.T. -0.000 min

Lab File: VU047692.D

Acq: 25 Mar 2022 22:57

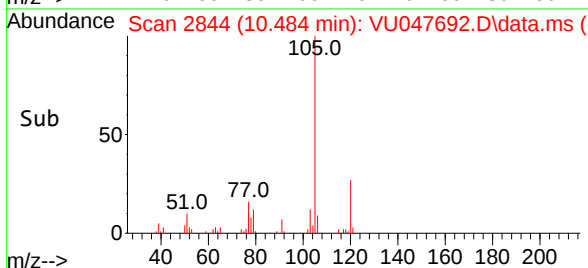
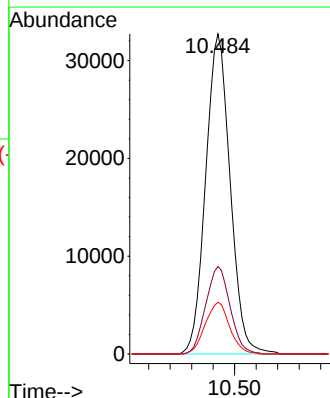
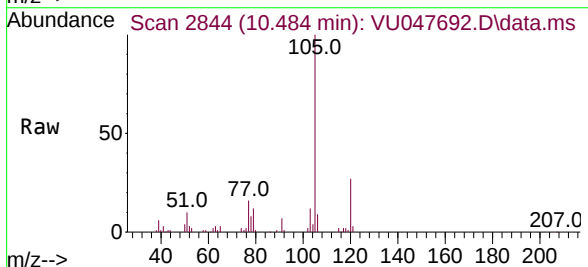
Tgt Ion:105 Resp: 51638

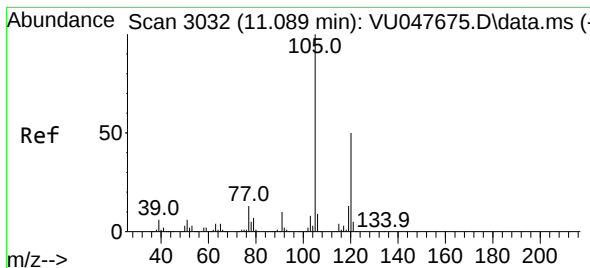
Ion Ratio Lower Upper

105 100

120 27.2 21.9 32.9

77 16.1 12.1 18.1





#62

1,3,5-Trimethylbenzene

Concen: 3.966 ug/L

RT: 11.896 min Scan# 31

Delta R.T. 0.807 min

Lab File: VU047692.D

Acq: 25 Mar 2022 22:57

Instrument :

MSVOA_U

ClientSampleId :

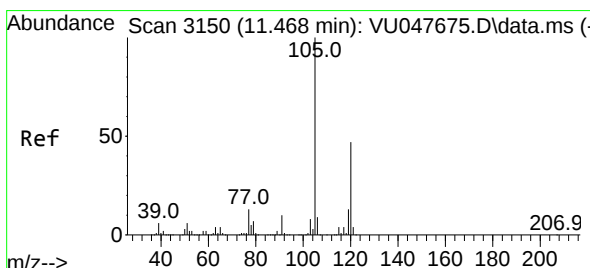
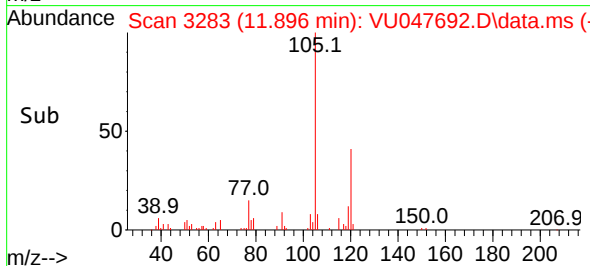
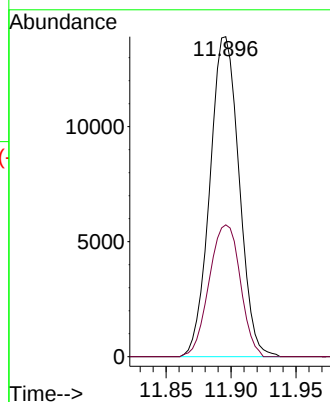
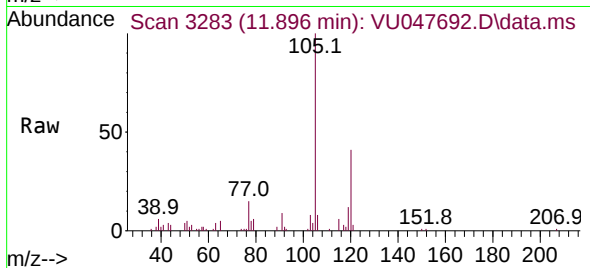
EW619

Tgt Ion:105 Resp: 21774

Ion Ratio Lower Upper

105 100

120 43.9 40.8 61.2



#63

1,2,4-Trimethylbenzene

Concen: 3.506 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU047692.D

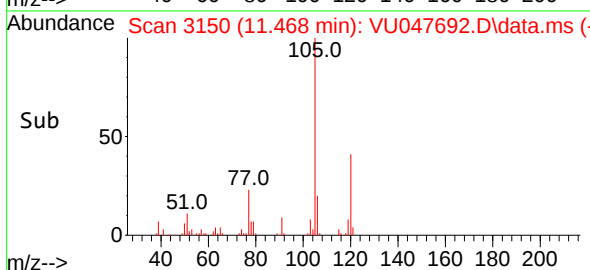
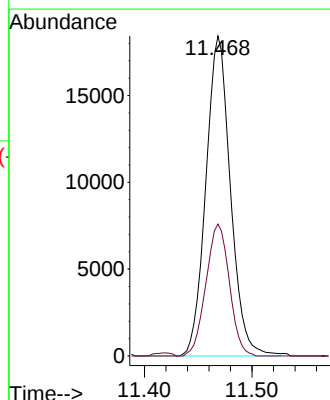
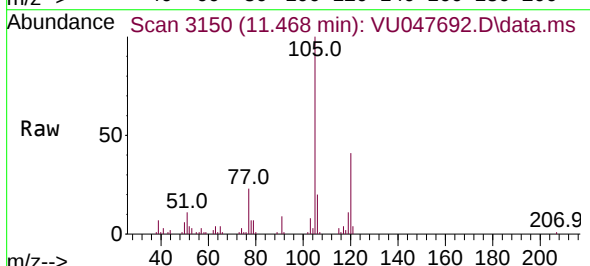
Acq: 25 Mar 2022 22:57

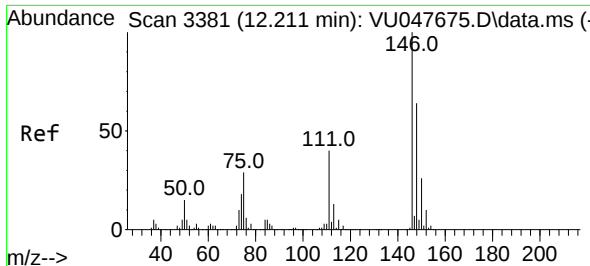
Tgt Ion:105 Resp: 29244

Ion Ratio Lower Upper

105 100

120 39.2 37.6 56.4

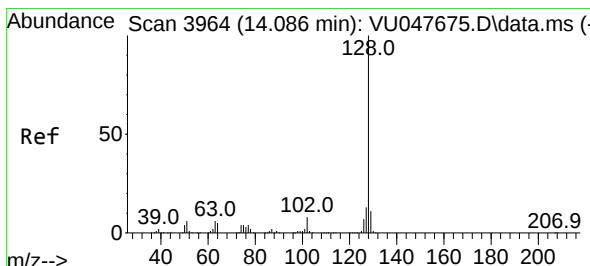
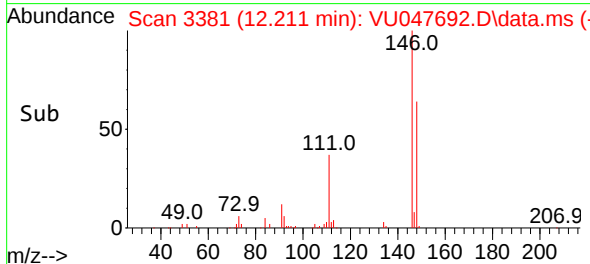
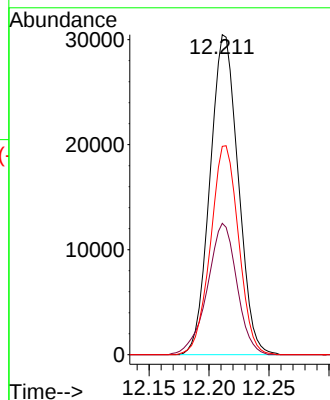
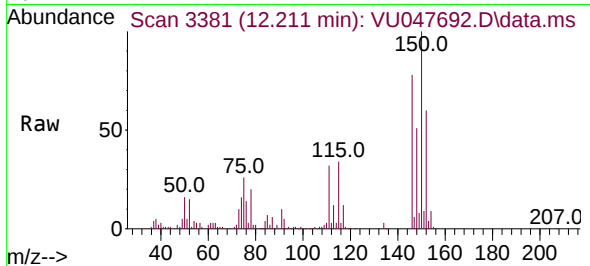




#67
1,2-Dichlorobenzene
Concen: 8.845 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

Instrument :
MSVOA_U
ClientSampleId :
EW619

Tgt Ion:146	Resp:	49782
Ion Ratio	Lower	Upper
146	100	
111	41.1	31.7 47.5
148	65.1	51.4 77.2



#71
Naphthalene
Concen: 9.946 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. -0.000 min
Lab File: VU047692.D
Acq: 25 Mar 2022 22:57

Tgt Ion:128	Resp:	118647
Ion Ratio	Lower	Upper
128	100	
127	13.3	10.2 15.2
129	11.2	8.8 13.2

