

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080524\
 Data File : VL041497.D
 Acq On : 5 Aug 2024 12:27
 Operator : SY/MD
 Sample : P3454-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 06 01:36:36 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 06 01:32:58 2024
 Response via : Initial Calibration

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

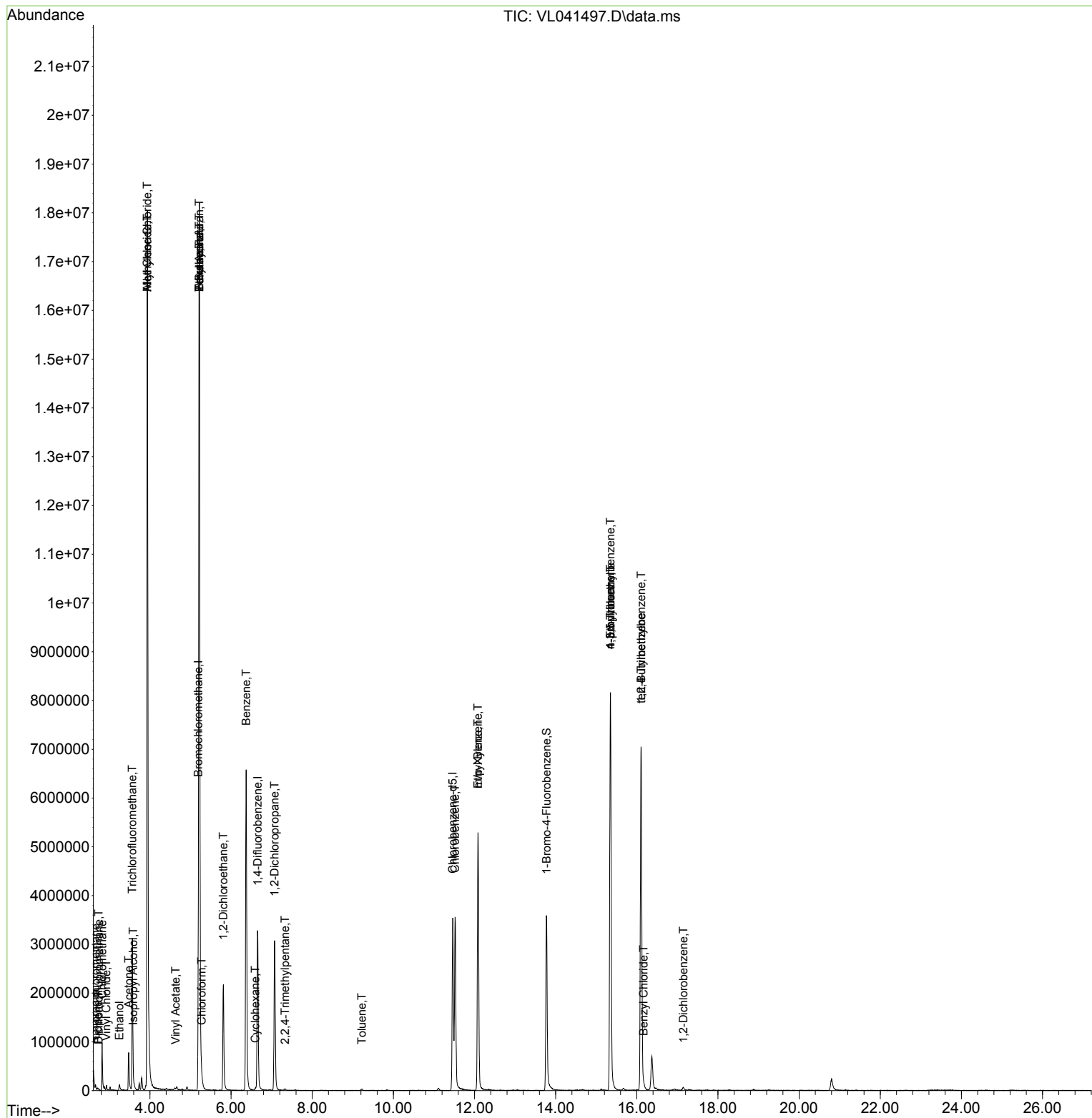
Internal Standards						
1) Bromochloromethane	5.195	49	881947	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2483182	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2295823	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1750505	9.908	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.738	85	17567	0.116	ppbv	97
3) Chlorodifluoromethane	2.661	51	71972	0.686	ppbv #	68
4) Chloromethane	2.822	50	832933	14.916	ppbv	100
5) Vinyl Chloride	2.928	62	70323	1.278	ppbv	96
9) Propene	2.716	41	11264	0.234	ppbv	86
11) Trichlorofluoromethane	3.568	101	2022001	15.006	ppbv	98
13) Ethanol	3.250	45	122424	28.400	ppbv	92
15) Acetone	3.475	43	778194	7.766	ppbv	99
19) Isopropyl Alcohol	3.591	45	15216	0.260	ppbv #	1
20) Methylene Chloride	3.938	84	6855929	183.472	ppbv #	83
21) Allyl Chloride	3.938	41	274336	4.174	ppbv #	19
23) Vinyl Acetate	4.636	43	4675	0.061	ppbv #	61
25) Ethyl Acetate	5.217	43	5724530	28.755	ppbv #	75
26) Hexane	5.217	57	7951106	96.280	ppbv #	37
29) Chloroform	5.275	83	4373	0.032	ppbv	96
30) Cyclohexane	6.600	84	6799	0.101	ppbv #	1
34) 2-Butanone	5.217	43	5658790	47.109	ppbv #	54
36) Benzene	6.372	78	5537244	30.517	ppbv	97
37) 1,2-Dichloroethane	5.809	62	1743701	17.170	ppbv	100
39) 1,2-Dichloropropane	7.073	63	1127596	16.232	ppbv	98
41) Tetrahydrofuran	5.217	42	3155835	45.935	ppbv #	50
44) 2,2,4-Trimethylpentane	7.333	57	21814	0.072	ppbv #	60
53) Toluene	9.221	91	20811	0.103	ppbv	93
57) Chlorobenzene	11.523	112	2277421	13.933	ppbv	98
58) Ethyl Benzene	12.085	91	5016906	18.959	ppbv	100
59) m/p-Xylene	12.085	91	5016906	21.962	ppbv #	80
64) n-propylbenzene	15.349	120	3169151	36.901	ppbv #	1
65) tert-Butylbenzene	16.108	119	692821	2.335	ppbv #	66
66) Benzyl Chloride	16.166	91	7347	0.386	ppbv #	77
72) 4-Ethyltoluene	15.349	105	6653424	26.153	ppbv #	81
73) 1,3,5-Trimethylbenzene	15.349	105	6653424	30.358	ppbv	99
74) 1,2,4-Trimethylbenzene	16.105	105	6038508	23.699	ppbv #	73
77) 1,2-Dichlorobenzene	17.146	146	29853	0.188	ppbv	87

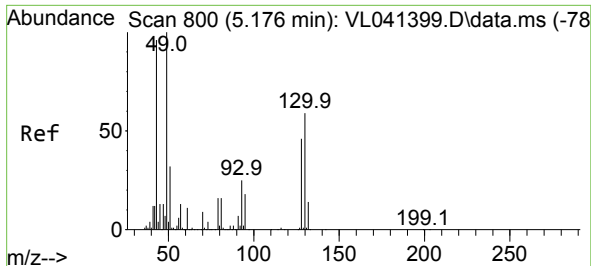
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080524\
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Quant Time: Aug 06 01:36:36 2024
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Aug 06 01:32:58 2024
Response via : Initial Calibration

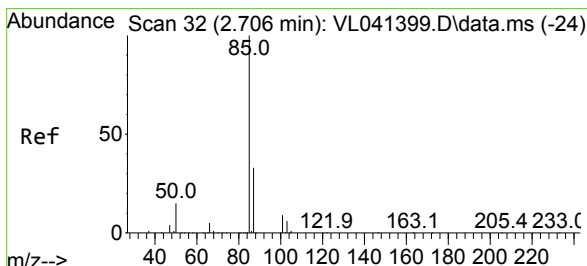
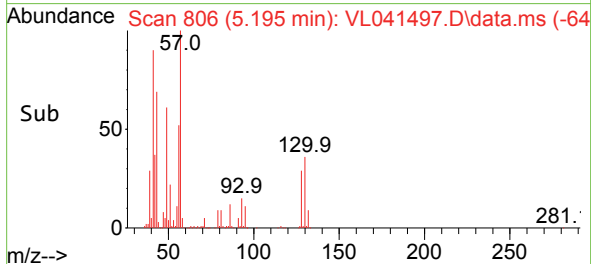
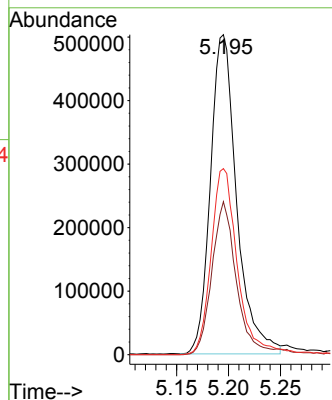
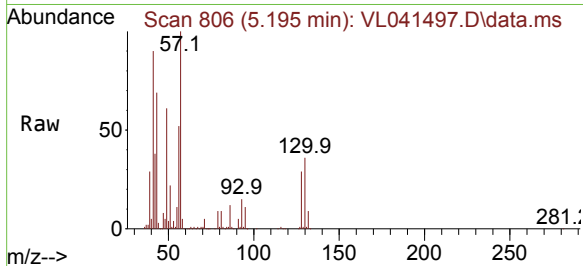




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. 0.006 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

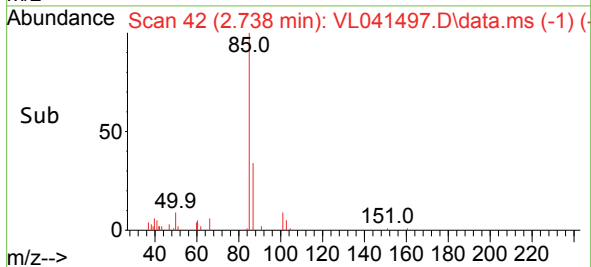
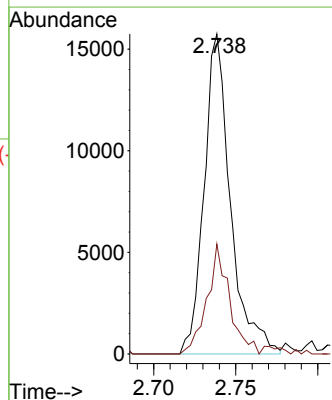
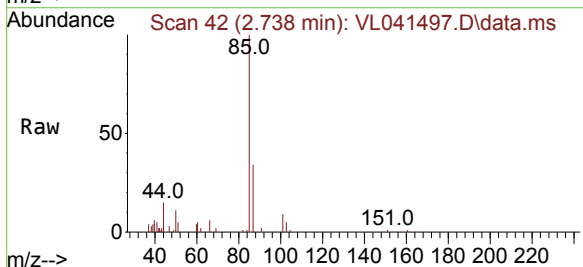
Instrument :
MSVOA_L
ClientSampleId :

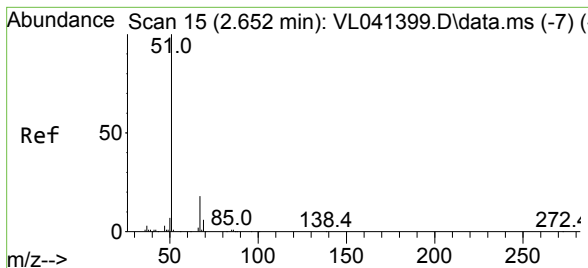
Tgt Ion: 49 Resp: 881947
Ion Ratio Lower Upper
49 100
128 46.4 23.8 71.4
130 59.9 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.116 ppbv
RT: 2.738 min Scan# 42
Delta R.T. 0.006 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Tgt Ion: 85 Resp: 17567
Ion Ratio Lower Upper
85 100
87 34.4 26.0 39.0

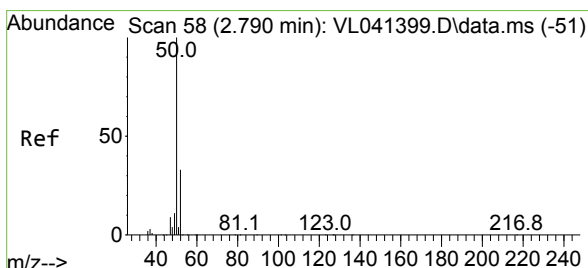
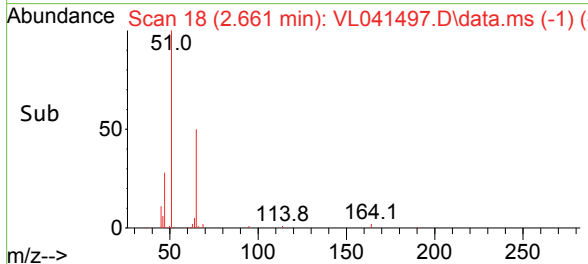
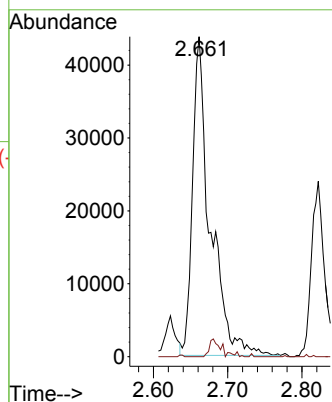
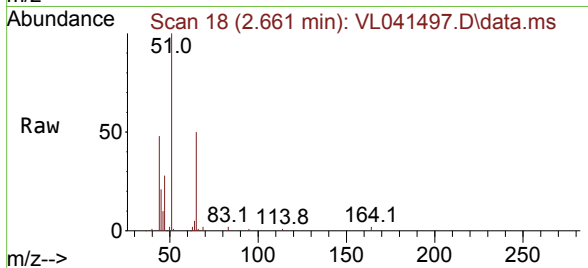




#3
Chlorodifluoromethane
Concen: 0.686 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

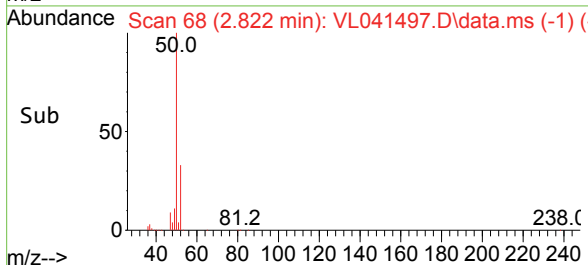
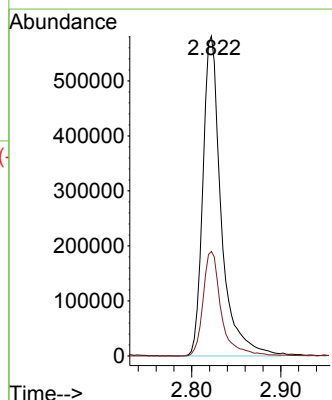
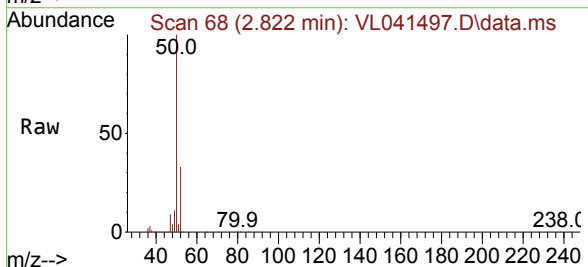
Instrument :
MSVOA_L
ClientSampleId :

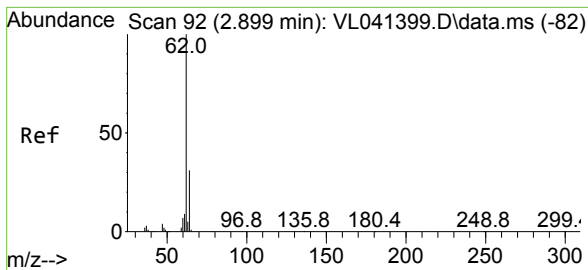
Tgt Ion: 51 Resp: 71972
Ion Ratio Lower Upper
51 100
67 3.9 14.5 21.7#



#4
Chloromethane
Concen: 14.916 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.006 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Tgt Ion: 50 Resp: 832933
Ion Ratio Lower Upper
50 100
52 32.7 26.1 39.1

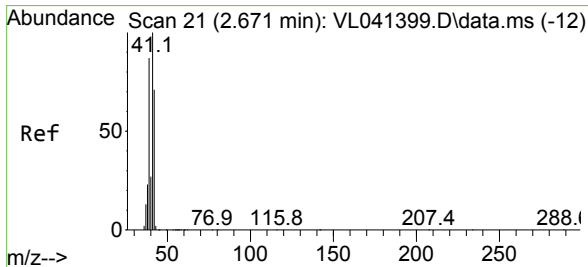
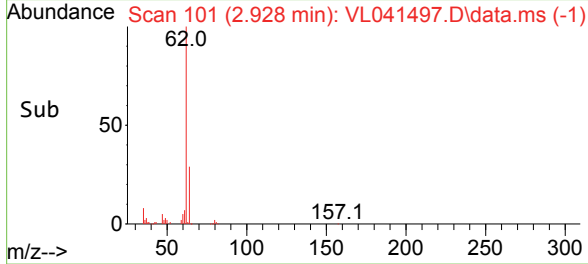
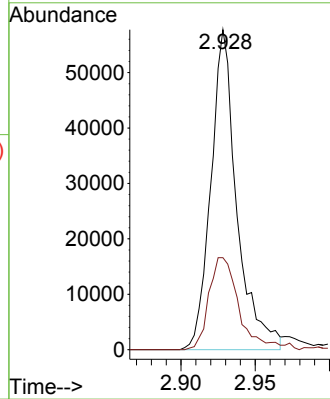
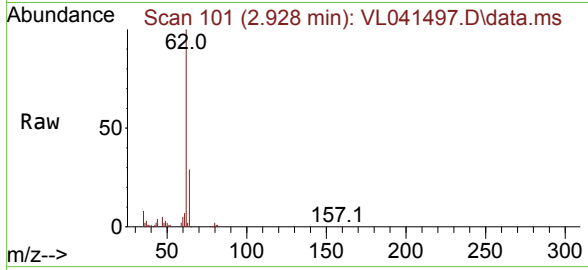




#5
 Vinyl Chloride
 Concen: 1.278 ppbv
 RT: 2.928 min Scan# 101
 Delta R.T. 0.006 min
 Lab File: VL041497.D
 Acq: 5 Aug 2024 12:27

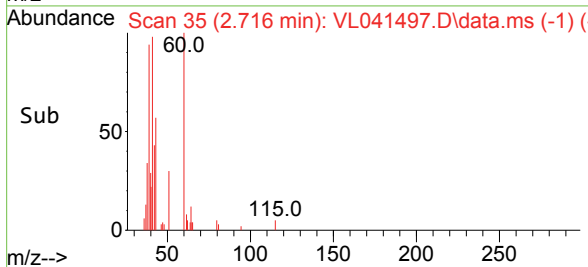
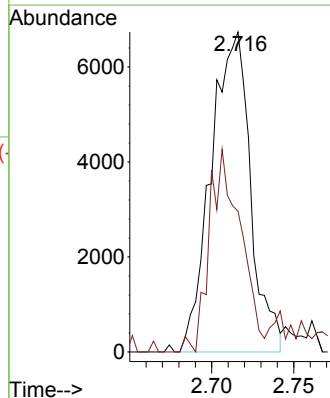
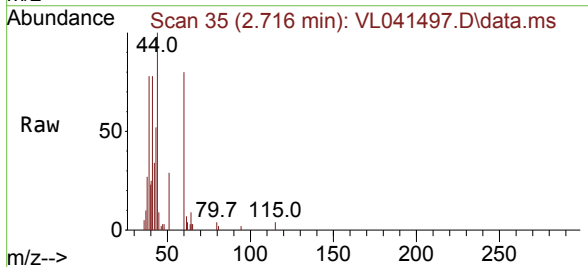
Instrument :
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 ClientSampleId :

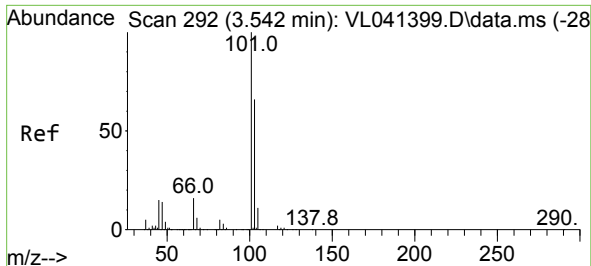
Tgt Ion: 62 Resp: 70323
 Ion Ratio Lower Upper
 62 100
 64 28.7 25.0 37.4



#9
 Propene
 Concen: 0.234 ppbv
 RT: 2.716 min Scan# 35
 Delta R.T. 0.019 min
 Lab File: VL041497.D
 Acq: 5 Aug 2024 12:27

Tgt Ion: 41 Resp: 11264
 Ion Ratio Lower Upper
 41 100
 42 58.5 55.9 83.9

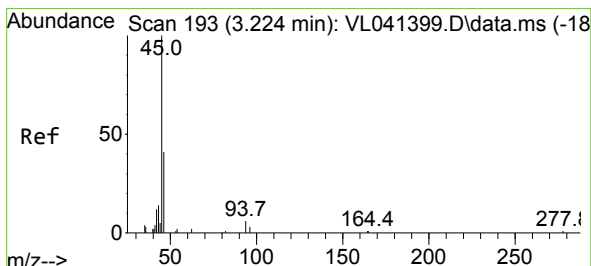
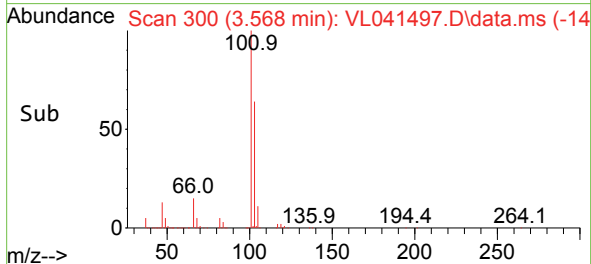
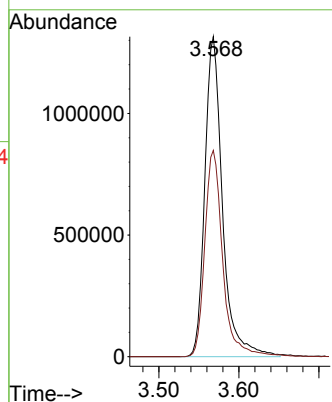
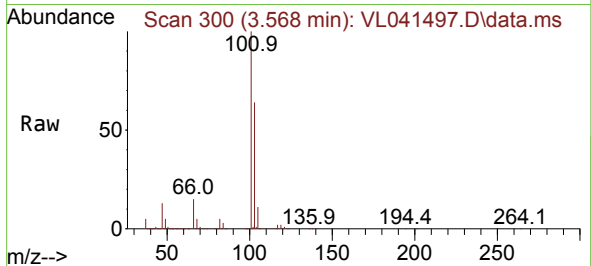




#11
Trichlorofluoromethane
Concen: 15.006 ppbv
RT: 3.568 min Scan# 301
Delta R.T. 0.006 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

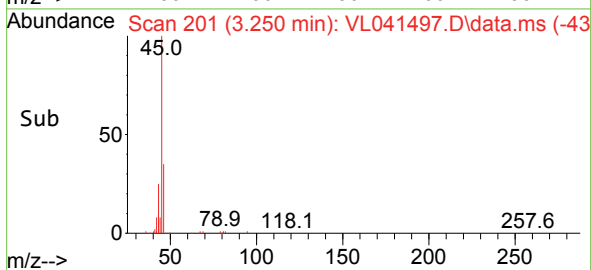
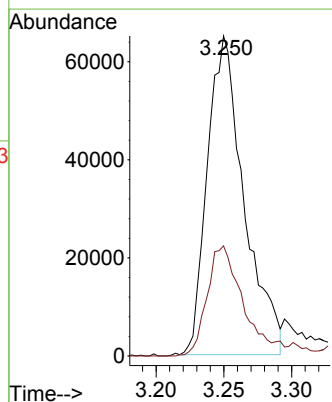
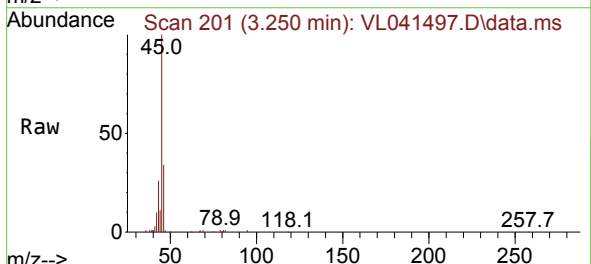
Instrument :
MSVOA_L
ClientSampleId :

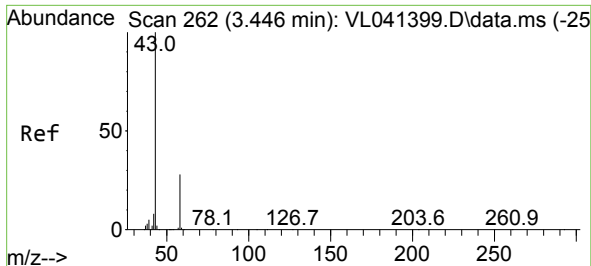
Tgt Ion:101 Resp: 2022001
Ion Ratio Lower Upper
101 100
103 64.5 52.6 79.0



#13
Ethanol
Concen: 28.400 ppbv
RT: 3.250 min Scan# 201
Delta R.T. 0.006 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Tgt Ion: 45 Resp: 122424
Ion Ratio Lower Upper
45 100
46 37.7 13.4 53.4

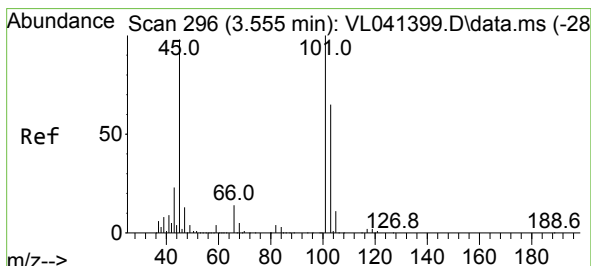
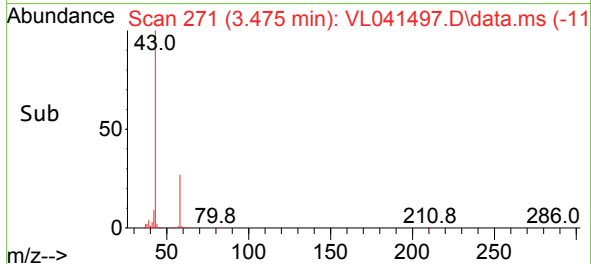
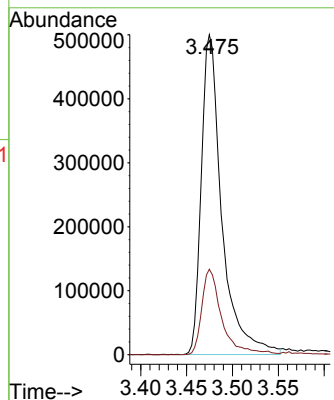
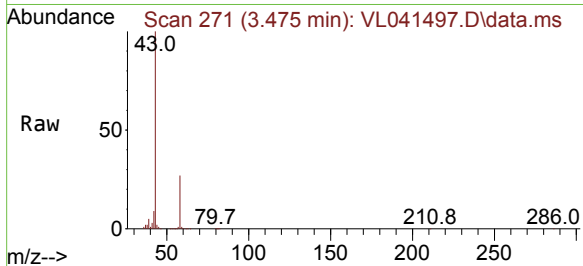




#15
Acetone
Concen: 7.766 ppbv
RT: 3.475 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

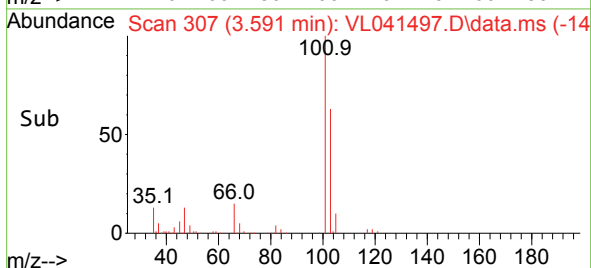
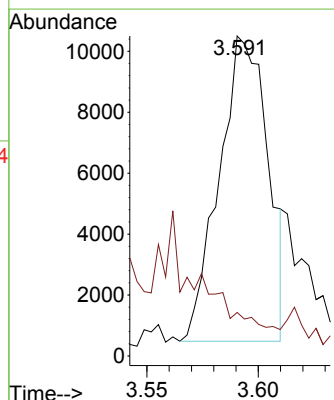
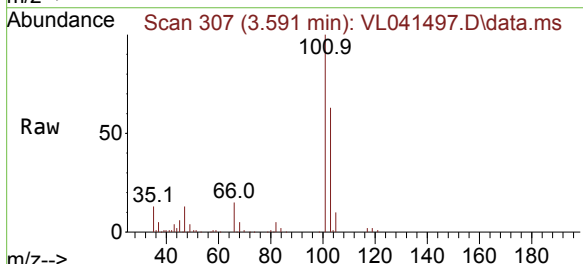
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MSVOA_L
ClientSampleId :

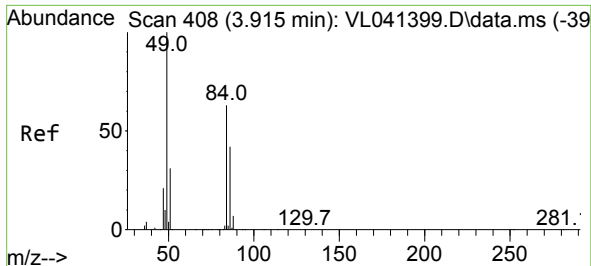
Tgt Ion: 43 Resp: 778194
Ion Ratio Lower Upper
43 100
58 26.1 21.4 32.2



#19
Isopropyl Alcohol
Concen: 0.260 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.016 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Tgt Ion: 45 Resp: 15216
Ion Ratio Lower Upper
45 100
58 50.8 1.9 2.9#





#20

Methylene Chloride

Concen: 183.472 ppbv

RT: 3.938 min Scan# 415

Delta R.T. 0.006 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 84 Resp: 6855929

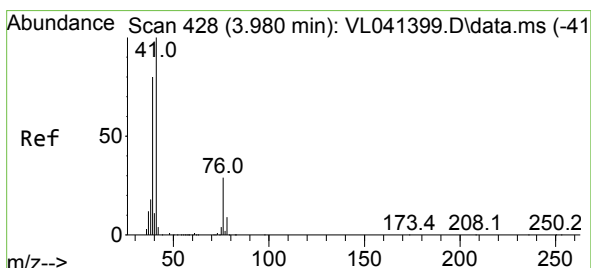
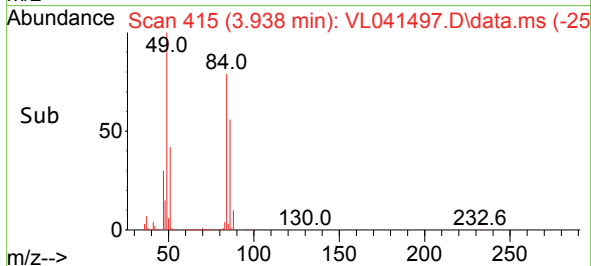
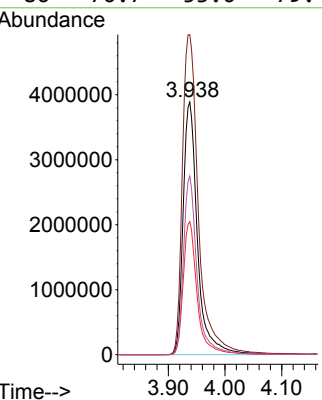
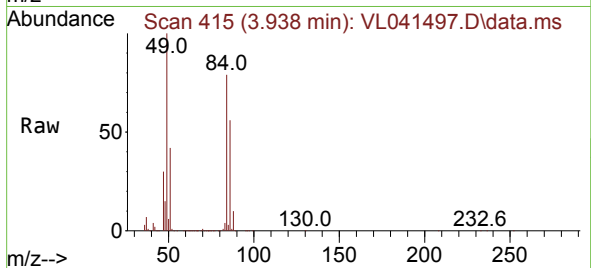
Ion Ratio Lower Upper

84 100

49 126.6 126.6 190.0#

51 52.6 38.6 58.0

86 70.7 53.0 79.4



#21

Allyl Chloride

Concen: 4.174 ppbv

RT: 3.938 min Scan# 415

Delta R.T. -0.058 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

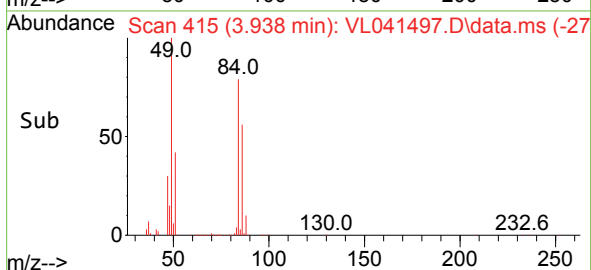
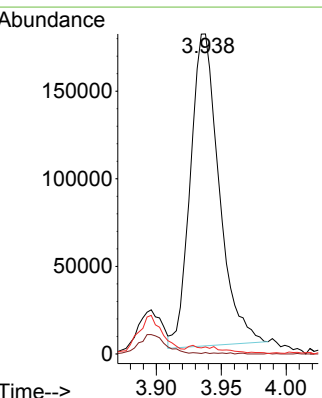
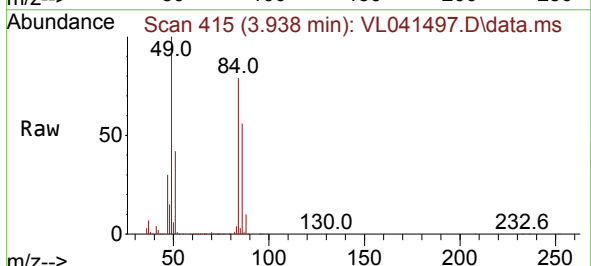
Tgt Ion: 41 Resp: 274336

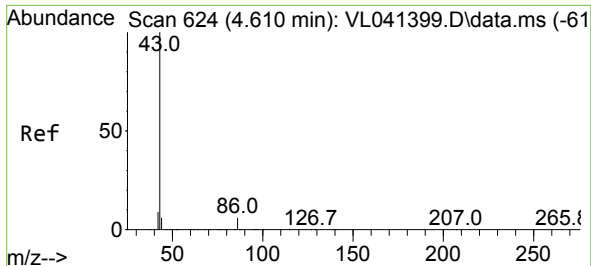
Ion Ratio Lower Upper

41 100

76 0.3 23.7 35.5#

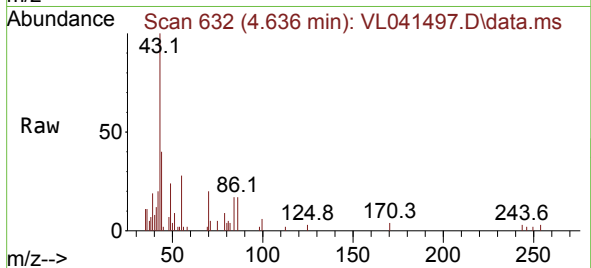
39 0.0 64.3 96.5#



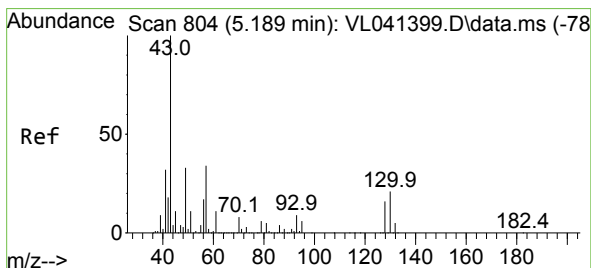
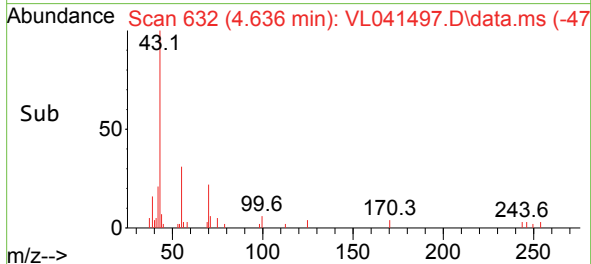
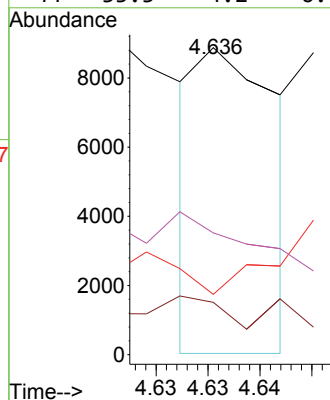


#23
 Vinyl Acetate
 Concen: 0.061 ppbv
 RT: 4.636 min Scan# 61
 Delta R.T. 0.010 min
 Lab File: VL041497.D
 Acq: 5 Aug 2024 12:27

Instrument :
 MSVOA_L
 ClientSampleId :

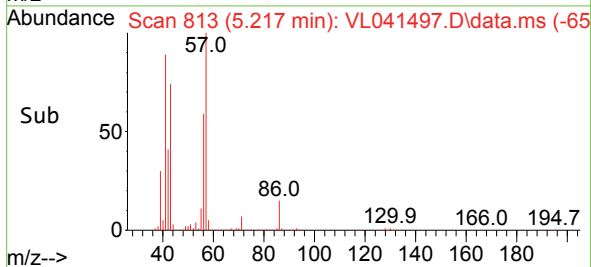
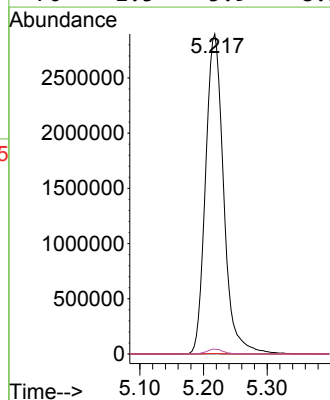
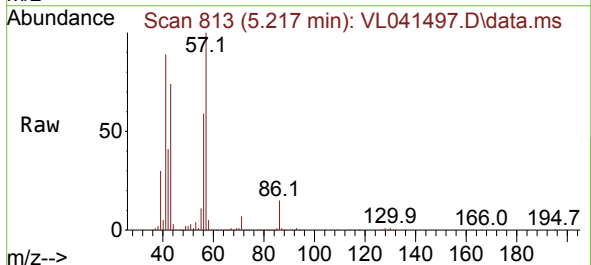


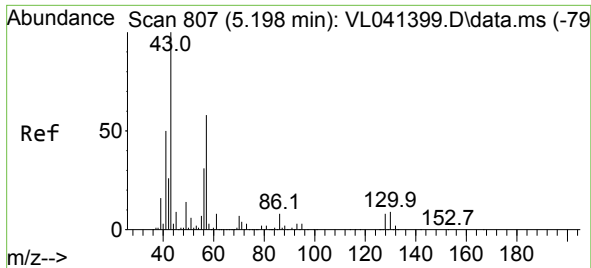
Tgt Ion:	43	Resp:	4675
Ion	Ratio	Lower	Upper
43	100		
86	0.0	4.6	6.8#
42	0.0	7.9	11.9#
44	33.3	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 28.755 ppbv
 RT: 5.217 min Scan# 813
 Delta R.T. 0.016 min
 Lab File: VL041497.D
 Acq: 5 Aug 2024 12:27

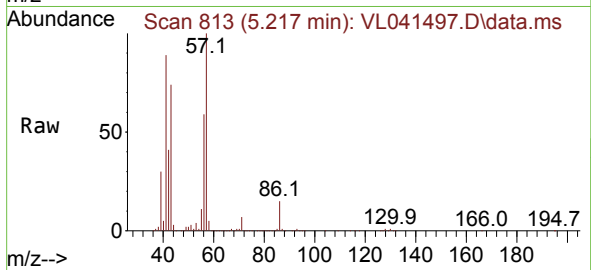
Tgt Ion:	43	Resp:	5724530
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.5	12.7#
61	0.1	8.0	12.0#
70	1.5	5.9	8.9#





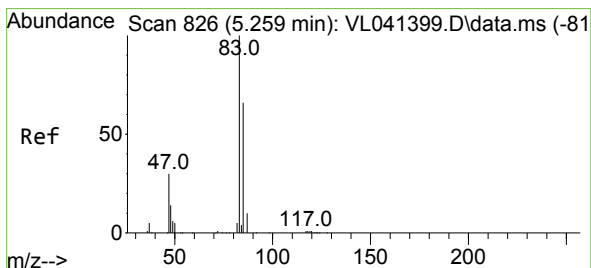
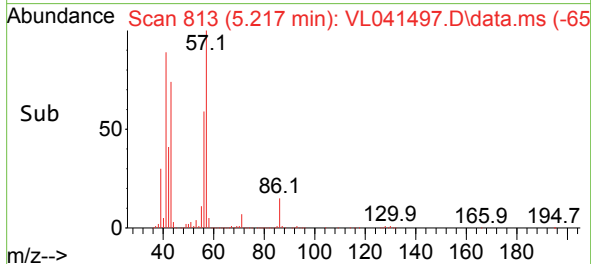
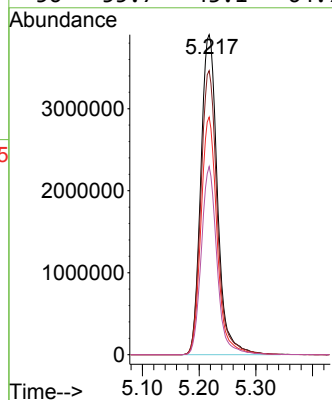
#26
Hexane
Concen: 96.280 ppbv
RT: 5.217 min Scan# 811
Delta R.T. 0.006 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 57 Resp: 7951106

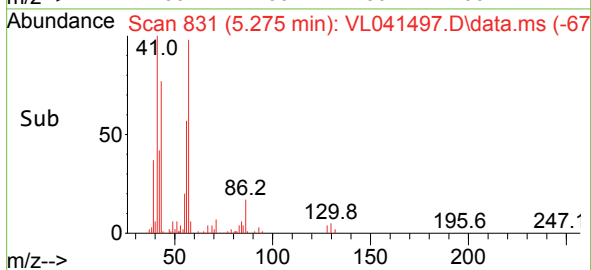
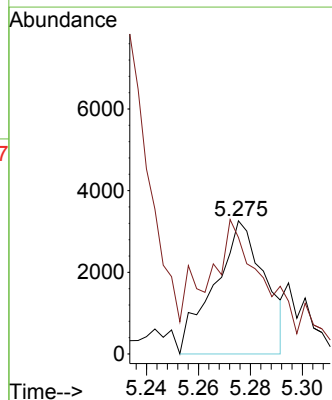
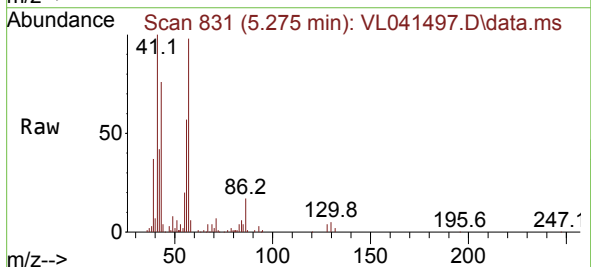
Ion	Ratio	Lower	Upper
57	100		
41	88.5	74.0	111.0
43	72.2	193.6	290.4#
56	55.7	43.1	64.7

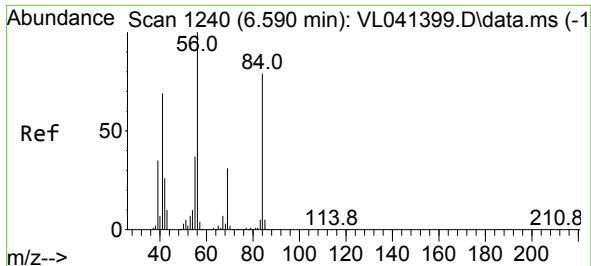


#29
Chloroform
Concen: 0.032 ppbv
RT: 5.275 min Scan# 831
Delta R.T. 0.003 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Tgt Ion: 83 Resp: 4373

Ion	Ratio	Lower	Upper
83	100		
85	63.4	53.1	79.7

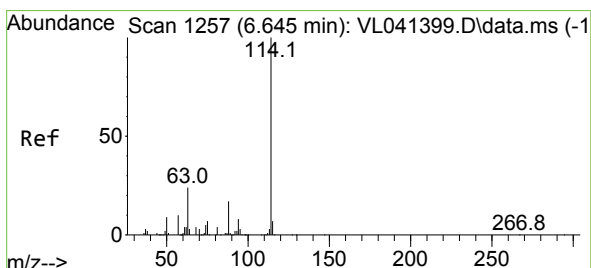
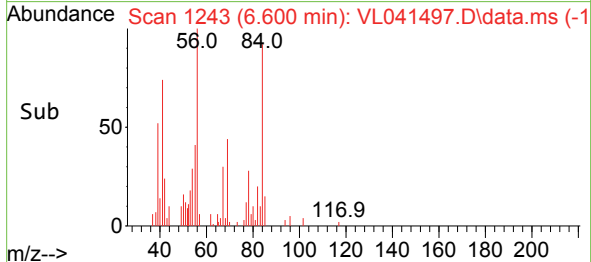
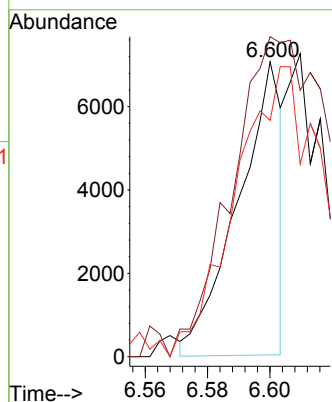
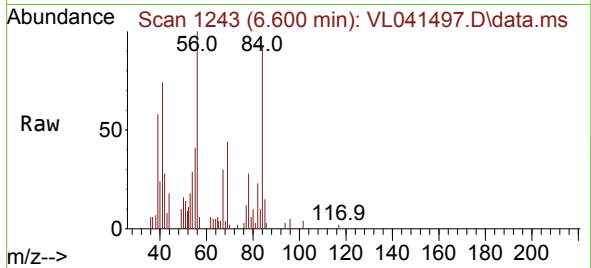




#30
Cyclohexane
Concen: 0.101 ppbv
RT: 6.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

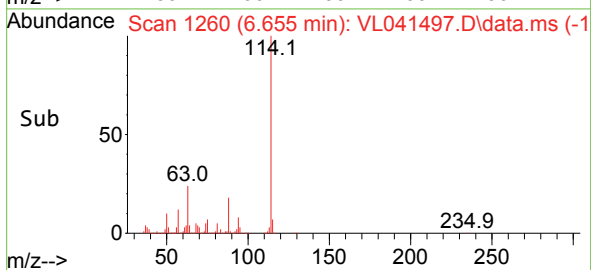
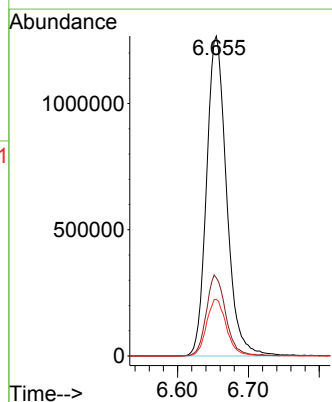
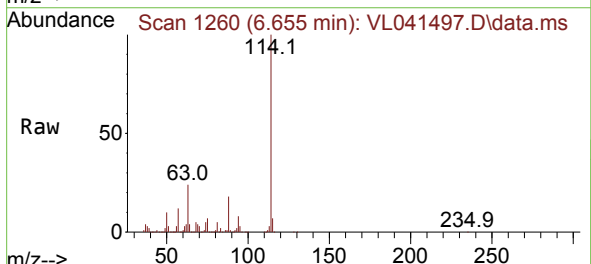
Instrument :
MSVOA_L
ClientSampleId :

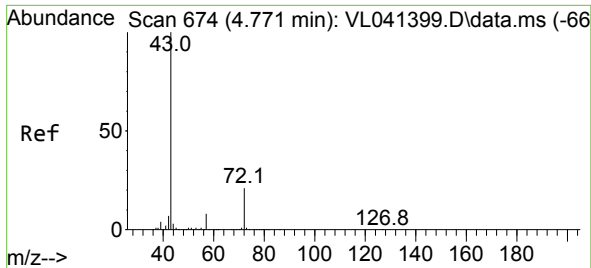
Tgt Ion: 84 Resp: 6799
Ion Ratio Lower Upper
84 100
56 249.2 111.2 166.8#
41 241.2 70.3 105.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.006 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Tgt Ion: 114 Resp: 2483182
Ion Ratio Lower Upper
114 100
63 24.8 20.3 30.5
88 17.7 14.3 21.5

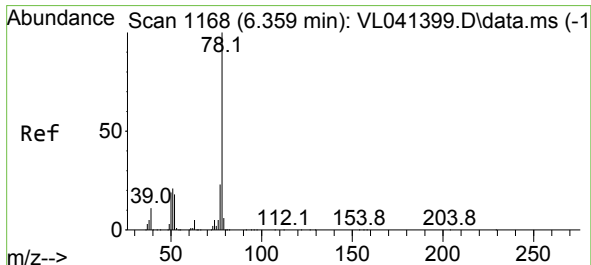
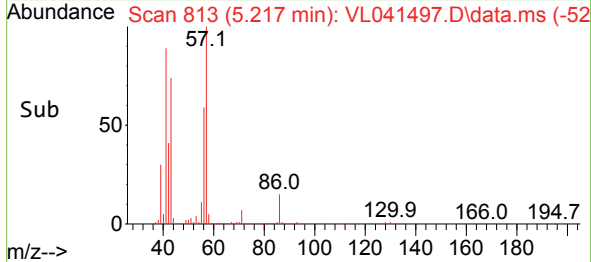
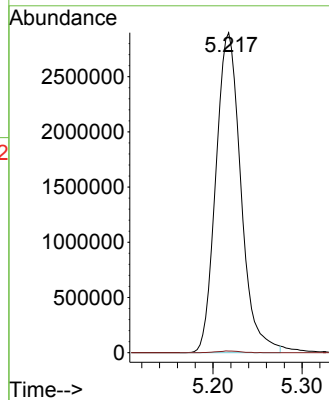
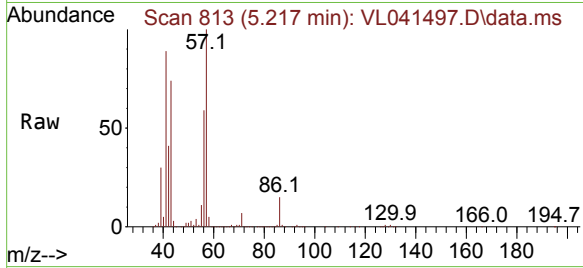




#34
2-Butanone
Concen: 47.109 ppbv
RT: 5.217 min Scan# 81
Delta R.T. 0.434 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

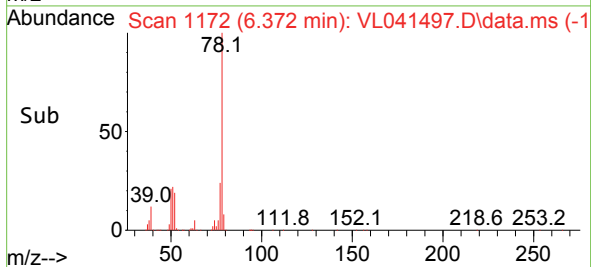
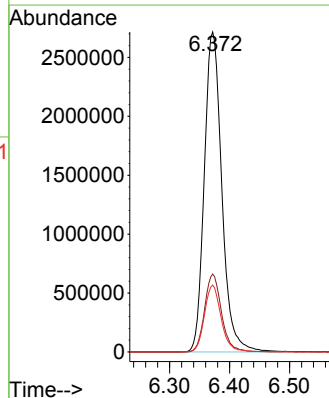
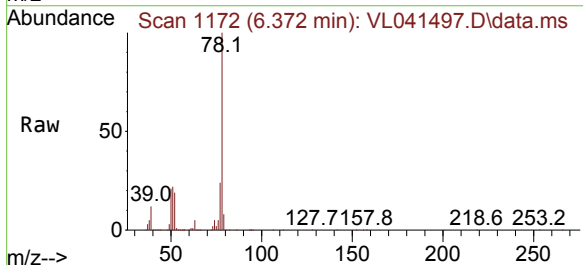
Instrument :
MSVOA_L
ClientSampleId :

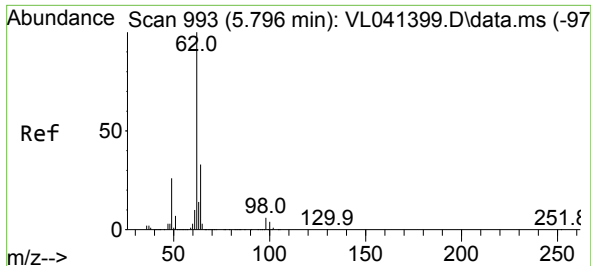
Tgt Ion: 43 Resp: 5658790
Ion Ratio Lower Upper
43 100
72 0.0 17.3 25.9#



#36
Benzene
Concen: 30.517 ppbv
RT: 6.372 min Scan# 1172
Delta R.T. 0.003 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Tgt Ion: 78 Resp: 5537244
Ion Ratio Lower Upper
78 100
77 24.3 18.1 27.1
50 20.9 15.5 23.3





#37

1,2-Dichloroethane

Concen: 17.170 ppbv

RT: 5.809 min Scan# 993

Delta R.T. 0.003 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

Instrument :

MSVOA_L

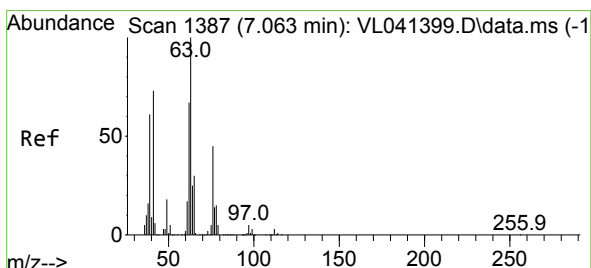
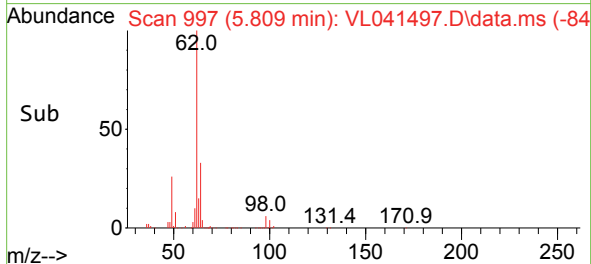
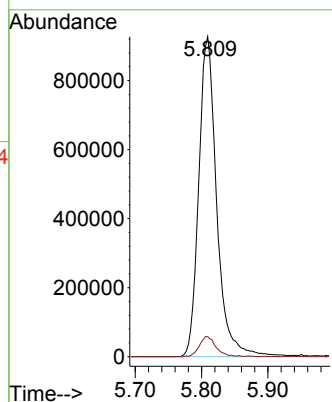
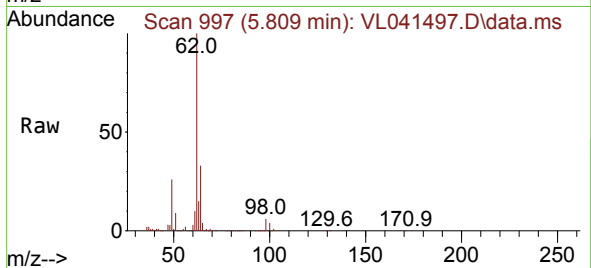
ClientSampleId :

Tgt Ion: 62 Resp: 1743701

Ion Ratio Lower Upper

62 100

98 6.1 5.0 7.4



#39

1,2-Dichloropropane

Concen: 16.232 ppbv

RT: 7.073 min Scan# 1390

Delta R.T. 0.003 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

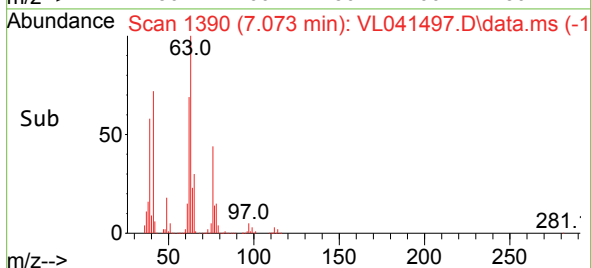
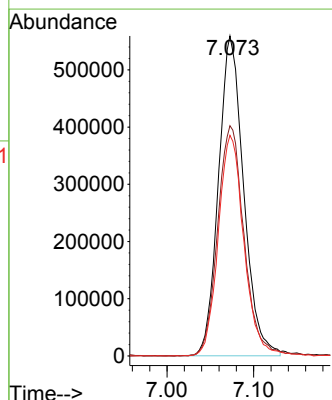
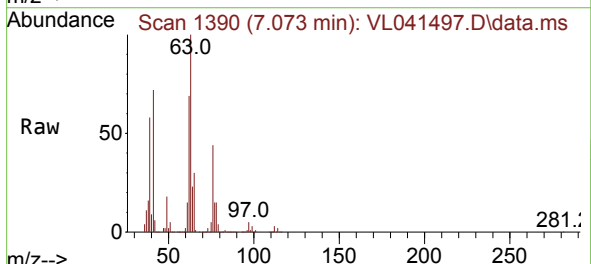
Tgt Ion: 63 Resp: 1127596

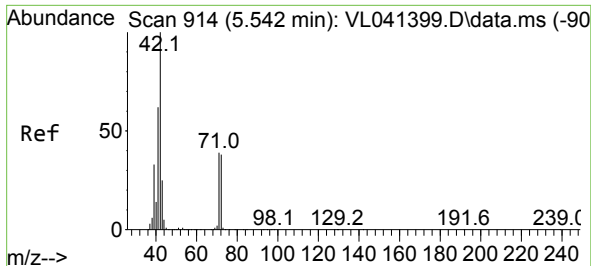
Ion Ratio Lower Upper

63 100

41 71.9 58.3 87.5

62 69.0 53.9 80.9





#41

Tetrahydrofuran

Concen: 45.935 ppbv

RT: 5.217 min Scan# 81

Delta R.T. -0.334 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

Instrument :

MSVOA_L

ClientSampleId :

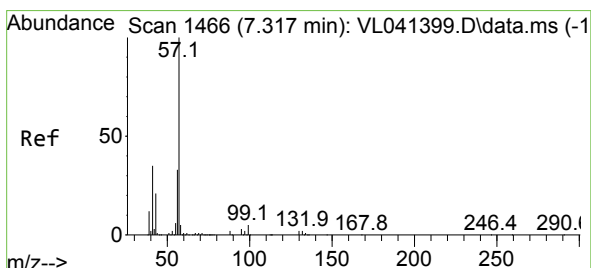
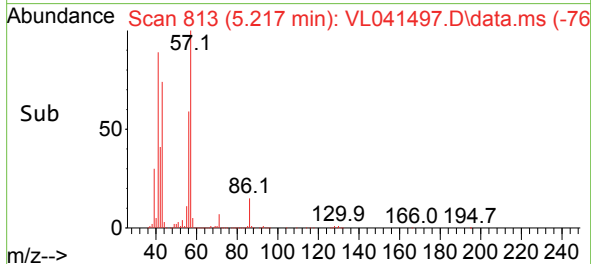
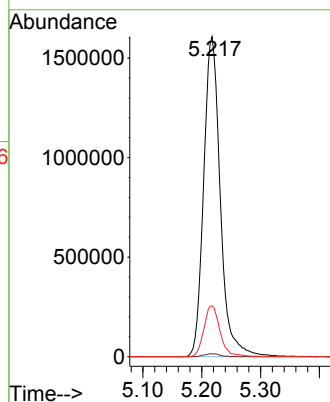
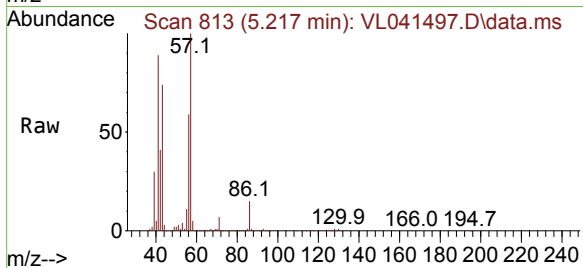
Tgt Ion: 42 Resp: 3155835

Ion Ratio Lower Upper

42 100

72 0.9 31.2 46.8#

71 15.6 30.5 45.7#



#44

2,2,4-Trimethylpentane

Concen: 0.072 ppbv

RT: 7.333 min Scan# 1471

Delta R.T. 0.013 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

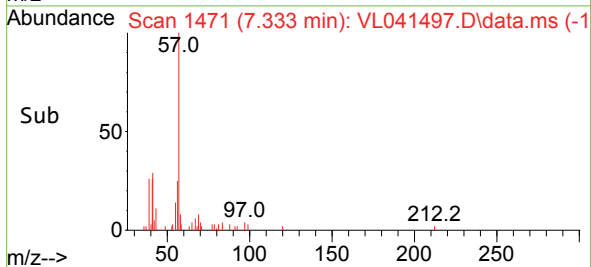
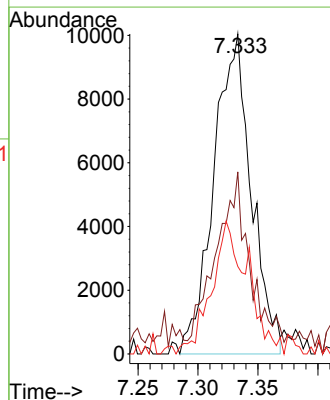
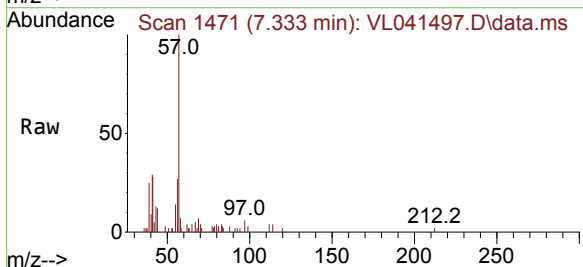
Tgt Ion: 57 Resp: 21814

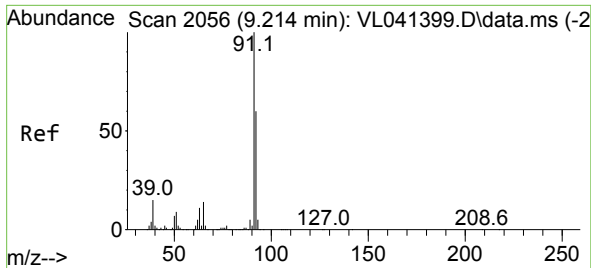
Ion Ratio Lower Upper

57 100

41 0.0 27.0 40.6#

56 41.9 25.2 37.8#





#53

Toluene

Concen: 0.103 ppbv

RT: 9.221 min Scan# 2056

Delta R.T. 0.003 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

Instrument :

MSVOA_L

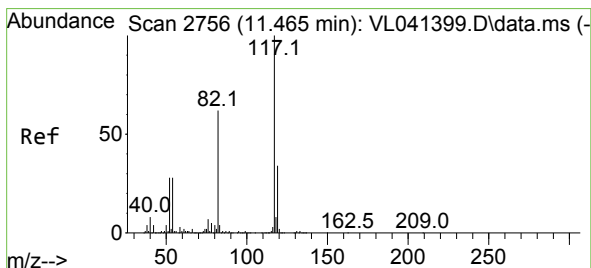
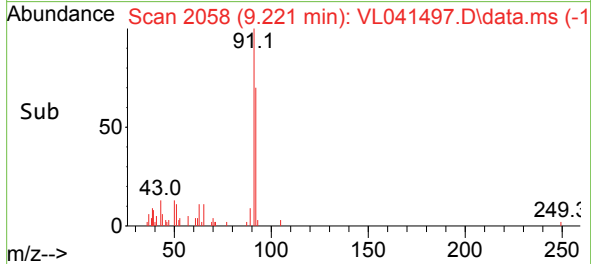
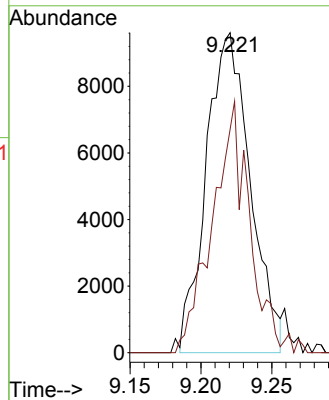
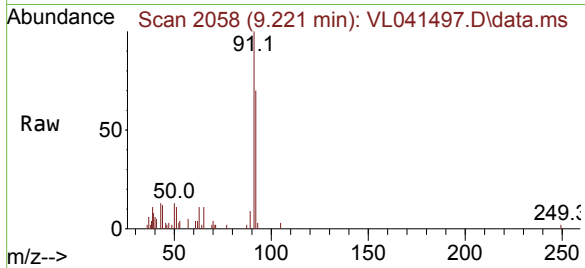
ClientSampleId :

Tgt Ion: 91 Resp: 20811

Ion Ratio Lower Upper

91 100

92 66.6 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.465 min Scan# 2756

Delta R.T. 0.003 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

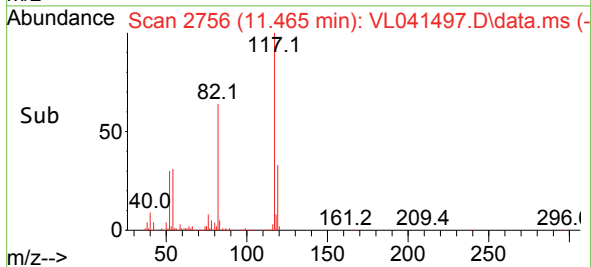
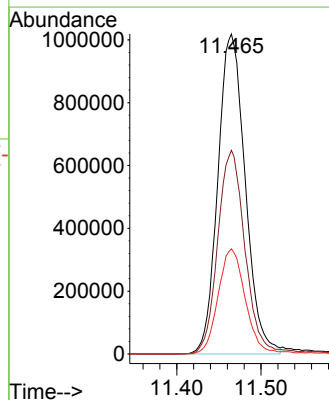
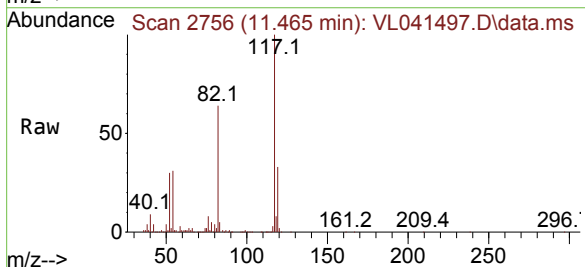
Tgt Ion: 117 Resp: 2295823

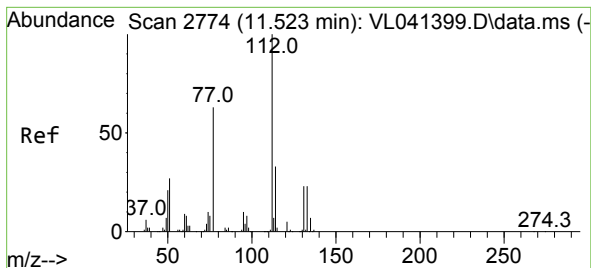
Ion Ratio Lower Upper

117 100

82 64.2 51.0 76.6

119 33.4 45.2 67.8#





#57

Chlorobenzene

Concen: 13.933 ppbv

RT: 11.523 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

Instrument :

MSVOA_L

ClientSampleId :

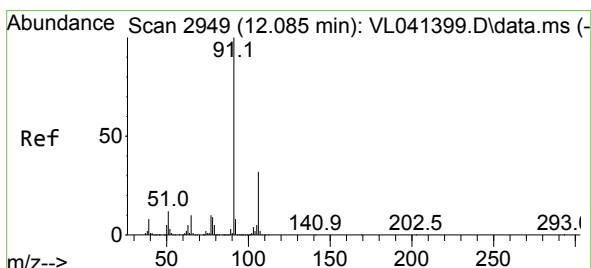
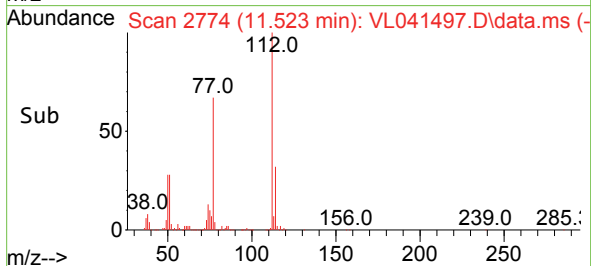
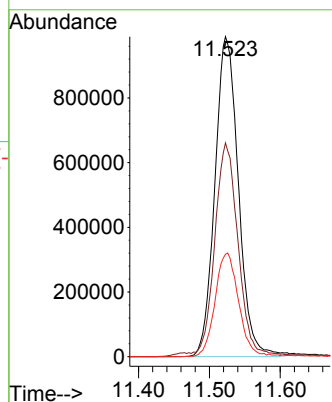
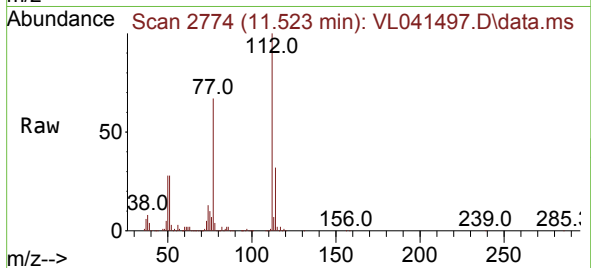
Tgt Ion:112 Resp: 2277421

Ion Ratio Lower Upper

112 100

77 66.0 51.1 76.7

114 32.0 29.5 36.1



#58

Ethyl Benzene

Concen: 18.959 ppbv

RT: 12.085 min Scan# 2949

Delta R.T. 0.000 min

Lab File: VL041497.D

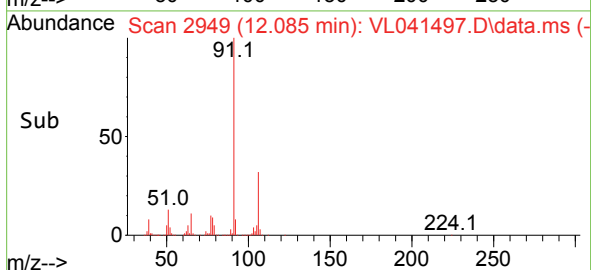
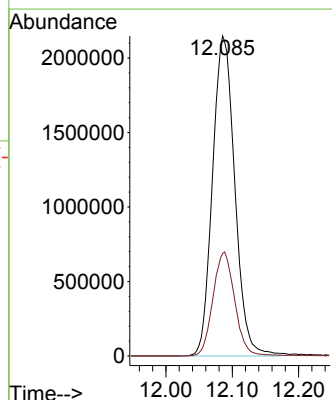
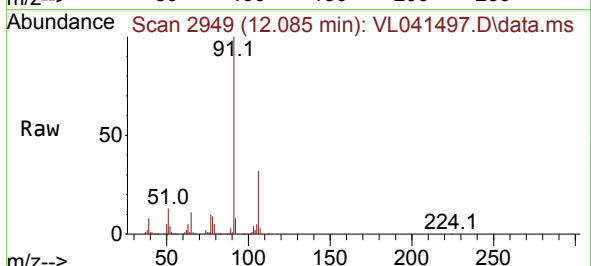
Acq: 5 Aug 2024 12:27

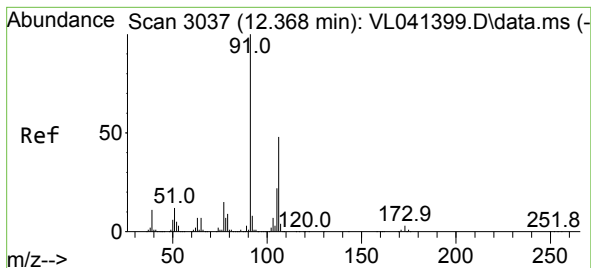
Tgt Ion: 91 Resp: 5016906

Ion Ratio Lower Upper

91 100

106 32.0 25.8 38.8





#59

m/p-Xylene

Concen: 21.962 ppbv

RT: 12.085 min Scan# 2949

Delta R.T. -0.283 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

Instrument :

MSVOA_L

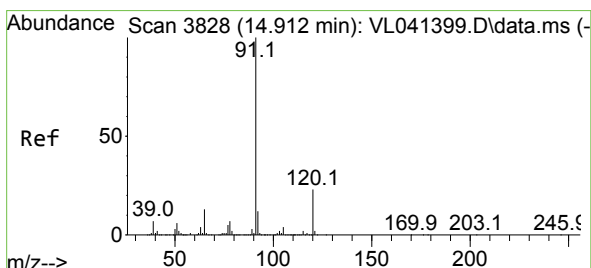
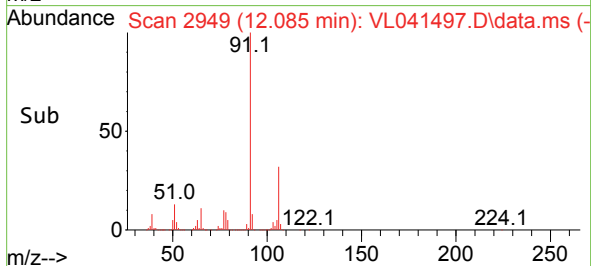
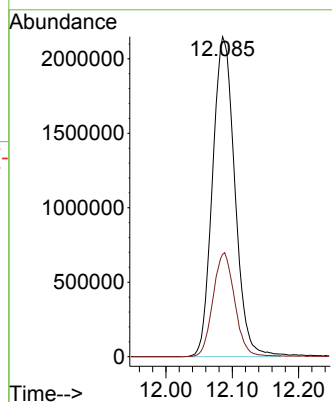
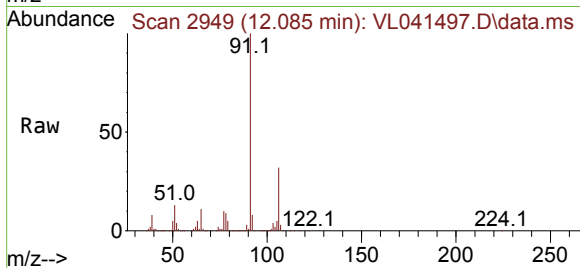
ClientSampleId :

Tgt Ion: 91 Resp: 5016906

Ion Ratio Lower Upper

91 100

106 32.0 36.3 54.5#



#64

n-propylbenzene

Concen: 36.901 ppbv

RT: 15.349 min Scan# 3964

Delta R.T. 0.437 min

Lab File: VL041497.D

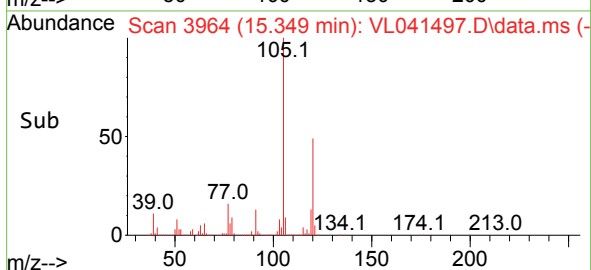
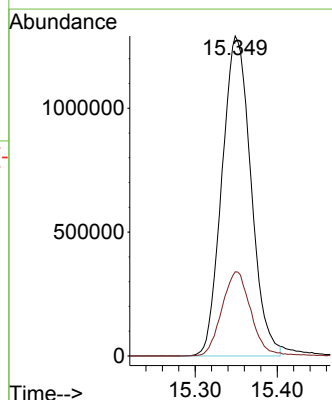
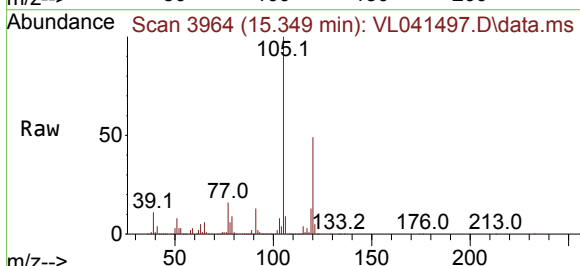
Acq: 5 Aug 2024 12:27

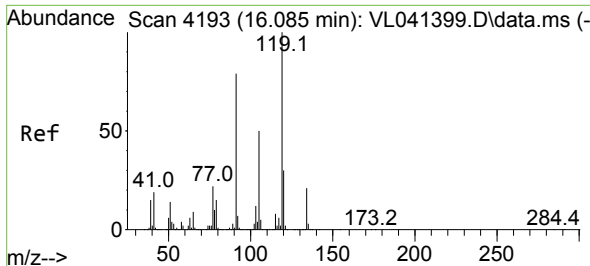
Tgt Ion:120 Resp: 3169151

Ion Ratio Lower Upper

120 100

91 0.0 361.4 542.0#

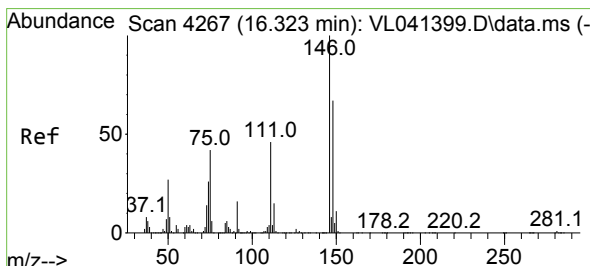
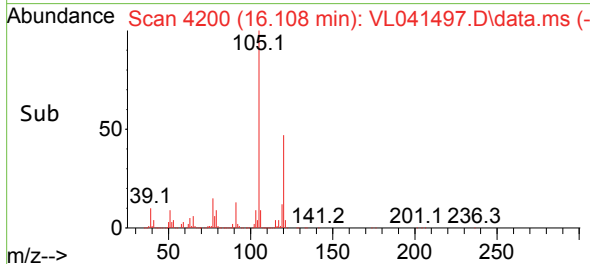
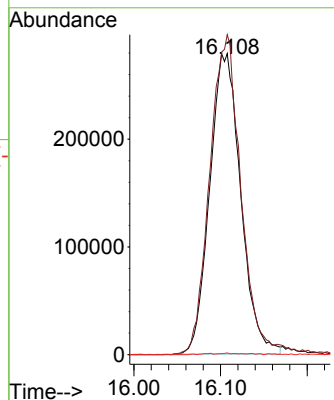
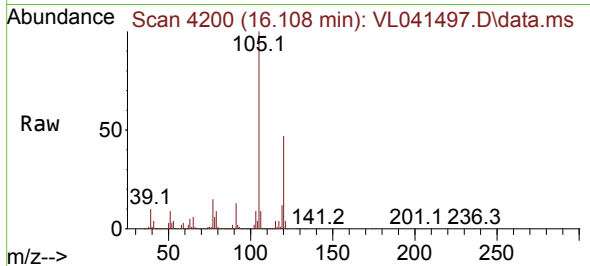




#65
tert-Butylbenzene
Concen: 2.335 ppbv
RT: 16.108 min Scan# 4193
Delta R.T. 0.026 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

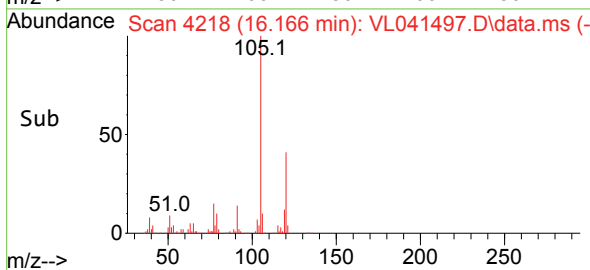
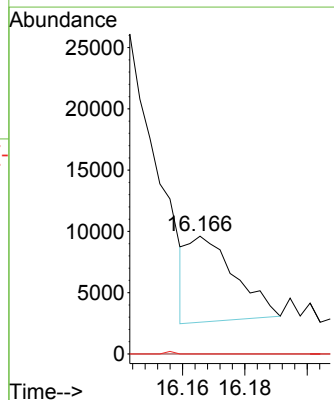
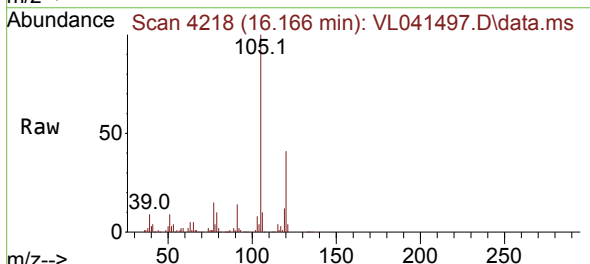
Instrument :
MSVOA_L
ClientSampleId :

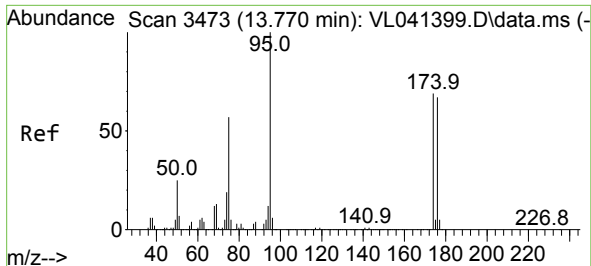
Tgt Ion:119 Resp: 692821
Ion Ratio Lower Upper
119 100
91 108.4 64.2 96.2#
134 0.5 15.7 23.5#



#66
Benzyl Chloride
Concen: 0.386 ppbv
RT: 16.166 min Scan# 4218
Delta R.T. -0.154 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Tgt Ion: 91 Resp: 7347
Ion Ratio Lower Upper
91 100
126 6.3 13.8 20.8#
128 0.0 4.4 6.6#

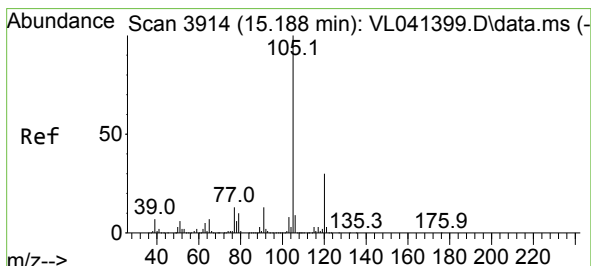
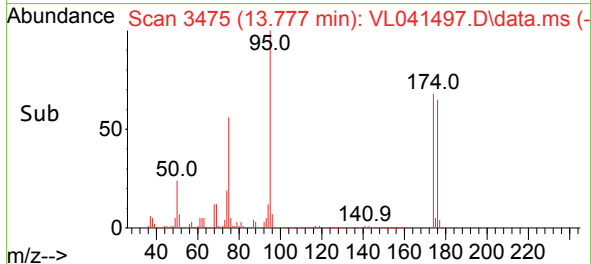
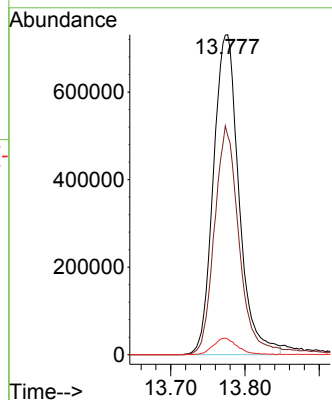
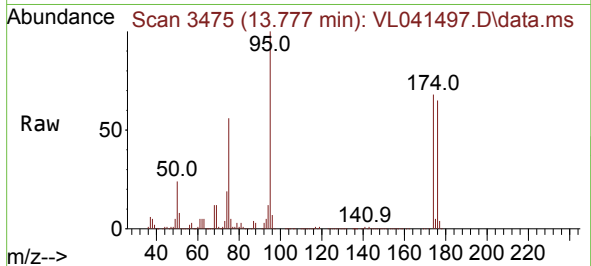




#68
1-Bromo-4-Fluorobenzene
Concen: 9.908 ppbv
RT: 13.777 min Scan# 3473
Delta R.T. 0.010 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

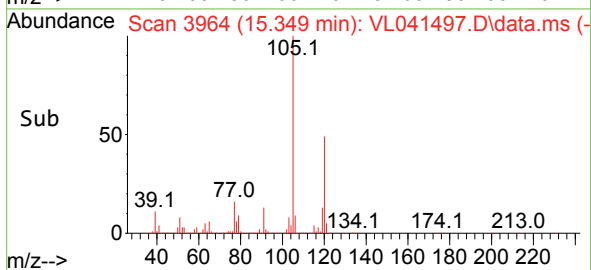
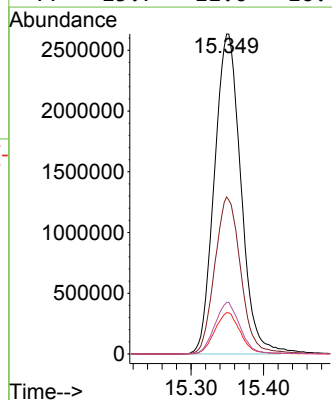
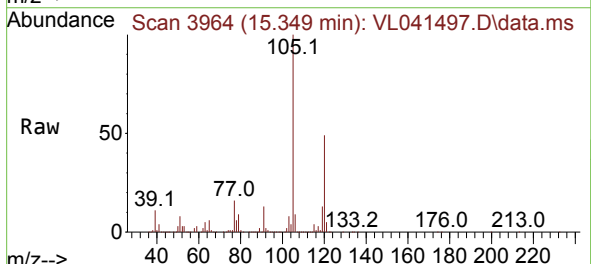
Instrument :
MSVOA_L
ClientSampleId :

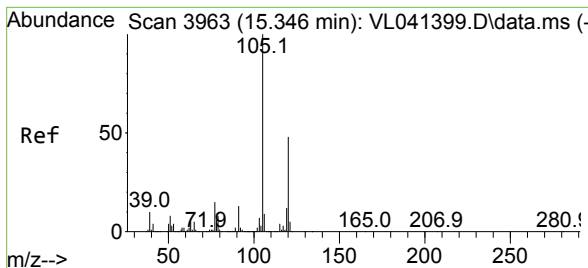
Tgt Ion: 95 Resp: 1750505
Ion Ratio Lower Upper
95 100
174 71.2 56.3 84.5
175 5.0 4.0 6.0



#72
4-Ethyltoluene
Concen: 26.153 ppbv
RT: 15.349 min Scan# 3964
Delta R.T. 0.161 min
Lab File: VL041497.D
Acq: 5 Aug 2024 12:27

Tgt Ion:105 Resp: 6653424
Ion Ratio Lower Upper
105 100
120 48.7 24.2 36.2#
91 12.7 10.4 15.6
77 15.7 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 30.358 ppbv

RT: 15.349 min Scan# 3964

Delta R.T. 0.003 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

Instrument :

MSVOA_L

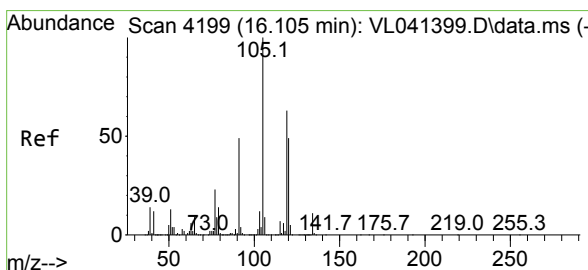
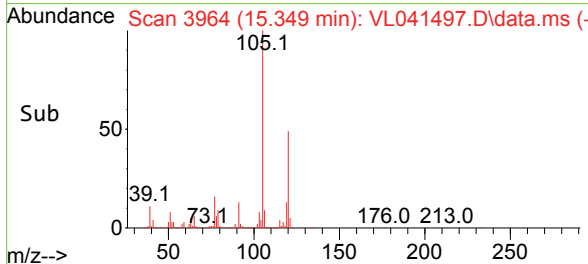
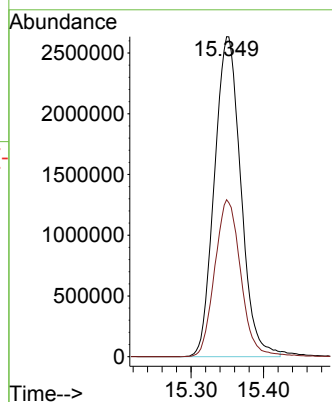
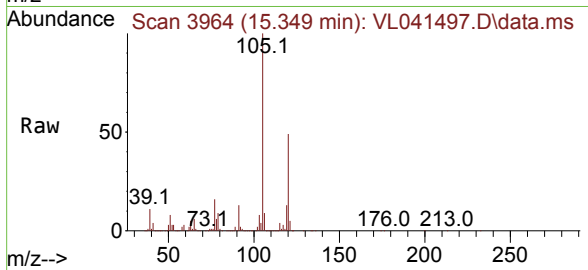
ClientSampleId :

Tgt Ion:105 Resp: 6653424

Ion Ratio Lower Upper

105 100

120 49.0 38.6 57.8



#74

1,2,4-Trimethylbenzene

Concen: 23.699 ppbv

RT: 16.105 min Scan# 4199

Delta R.T. 0.003 min

Lab File: VL041497.D

Acq: 5 Aug 2024 12:27

Tgt Ion:105 Resp: 6038508

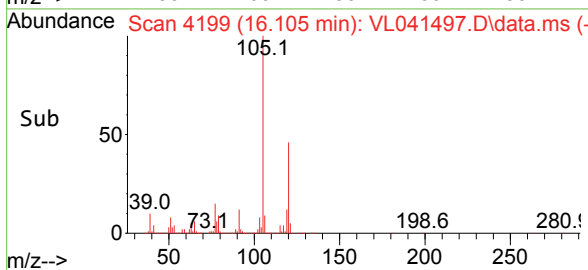
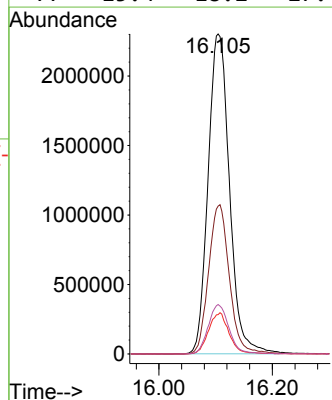
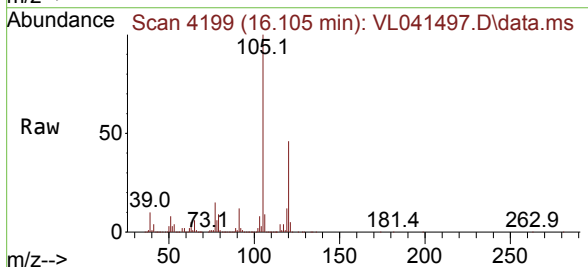
Ion Ratio Lower Upper

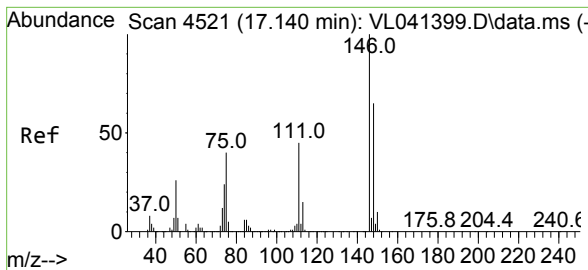
105 100

120 46.2 39.5 59.3

91 12.3 39.8 59.8#

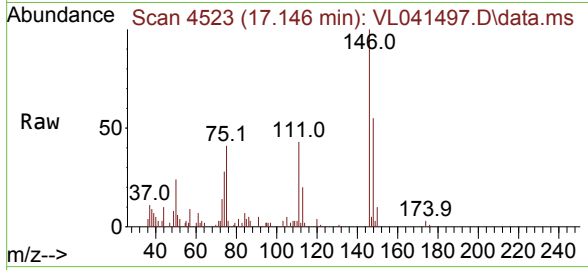
77 15.4 18.2 27.4#





#77
 1,2-Dichlorobenzene
 Concen: 0.188 ppbv
 RT: 17.146 min Scan# 4521
 Delta R.T. 0.010 min
 Lab File: VL041497.D
 Acq: 5 Aug 2024 12:27

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	146	Resp:	29853
Ion Ratio	Lower	Upper	
146	100		
111	53.6	23.4	70.0
148	76.0	32.2	96.6

