

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072224\
 Data File : VL041390.D
 Acq On : 22 Jul 2024 17:37
 Operator : SY/MD
 Sample : P3259-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 23 03:17:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL062624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 23 02:50:01 2024
 Response via : Initial Calibration

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

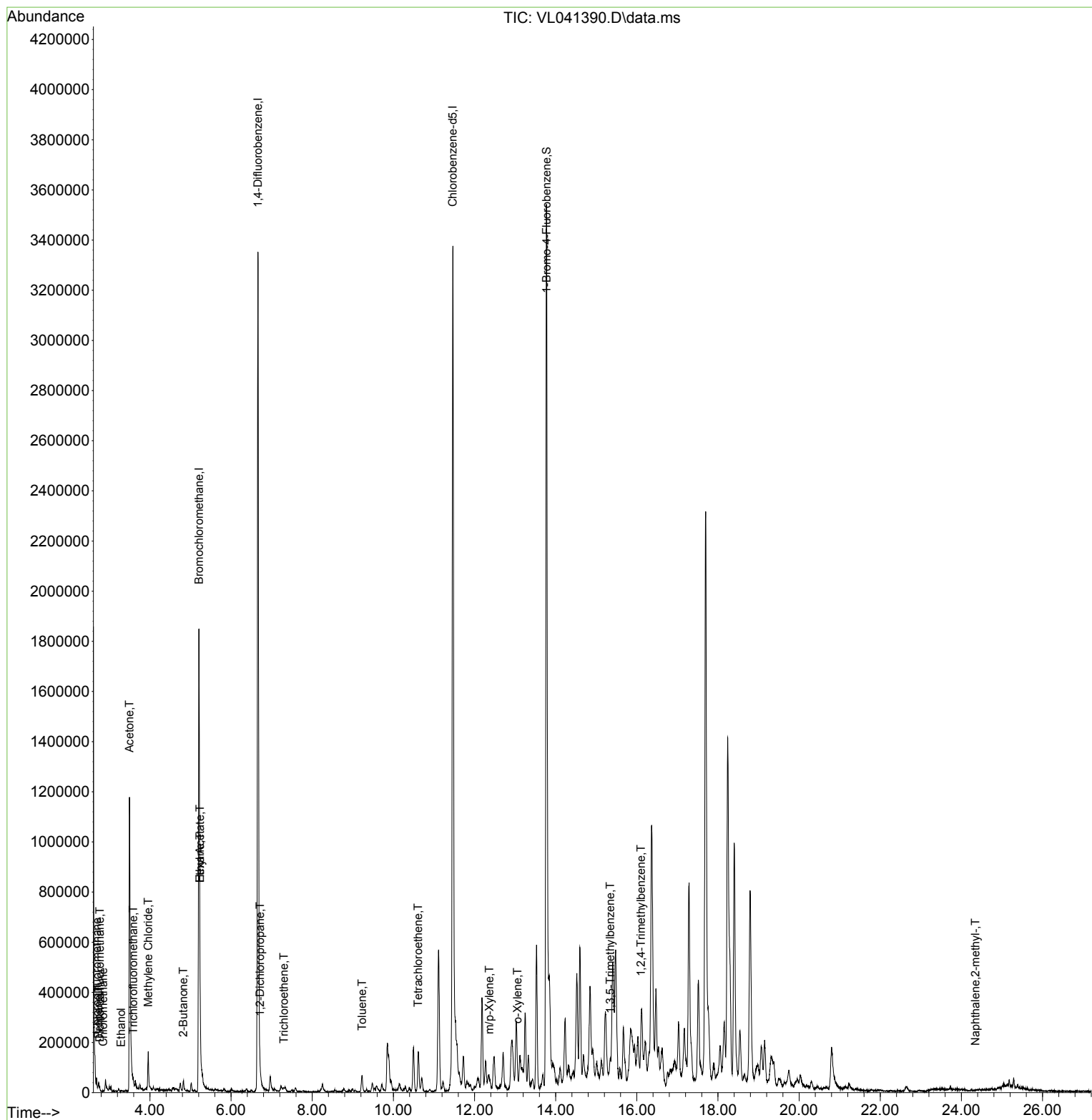
Internal Standards							
1) Bromochloromethane		5.208	49	968880	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.661	114	2594771	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.465	117	2278796	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.773	95	1748807	10.239	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	102.400%
Target Compounds							Qvalue
2) Dichlorodifluoromethane		2.764	85	9938	0.060	ppbv	98
3) Chlorodifluoromethane		2.687	51	19943	0.119	ppbv #	69
4) Chloromethane		2.848	50	2394	0.037	ppbv #	82
9) Propene		2.729	41	10693	0.185	ppbv	90
11) Trichlorofluoromethane		3.587	101	6207	0.039	ppbv	93
13) Ethanol		3.288	45	530	0.041	ppbv #	41
15) Acetone		3.497	43	1505990	11.769	ppbv	94
20) Methylene Chloride		3.957	84	48266	1.040	ppbv	95
25) Ethyl Acetate		5.230	43	78061	0.331	ppbv #	94
26) Hexane		5.230	57	61847	0.593	ppbv #	64
34) 2-Butanone		4.822	43	24291	0.177	ppbv #	34
38) Trichloroethene		7.301	130	2845	0.030	ppbv #	65
39) 1,2-Dichloropropane		6.713	63	7597	0.092	ppbv #	13
52) Tetrachloroethene		10.613	164	36076	0.418	ppbv	89
53) Toluene		9.227	91	51823	0.214	ppbv	97
59) m/p-Xylene		12.368	91	12732	0.048	ppbv #	32
60) o-Xylene		13.060	91	11832	0.048	ppbv #	30
73) 1,3,5-Trimethylbenzene		15.346	105	10276	0.040	ppbv #	80
74) 1,2,4-Trimethylbenzene		16.104	105	26636	0.093	ppbv #	80
80) Naphthalene, 2-methyl-		24.345	142	31	0.077	ppbv #	38

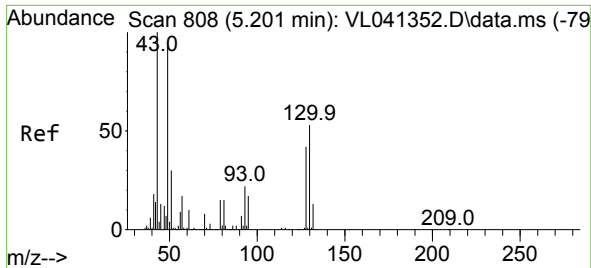
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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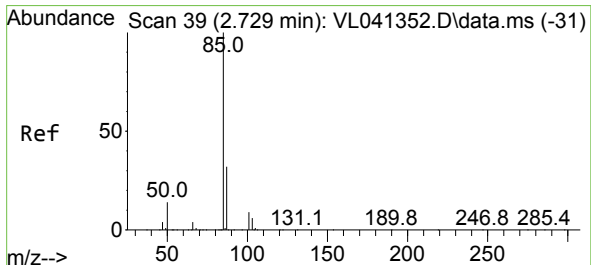
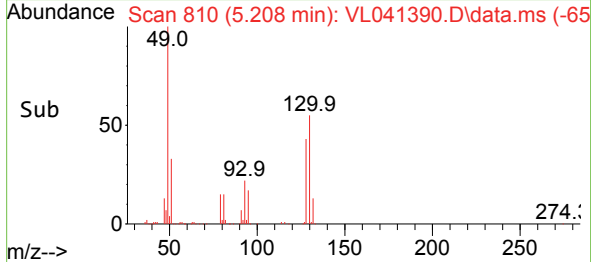
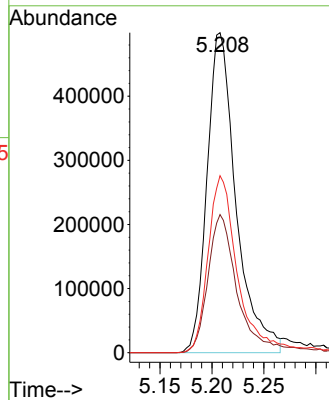
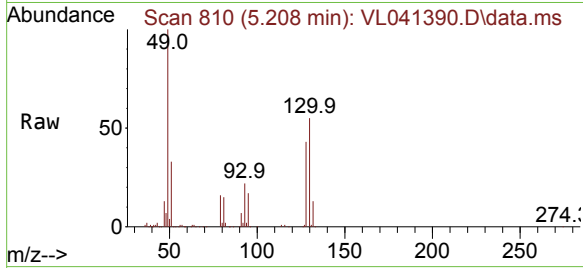




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

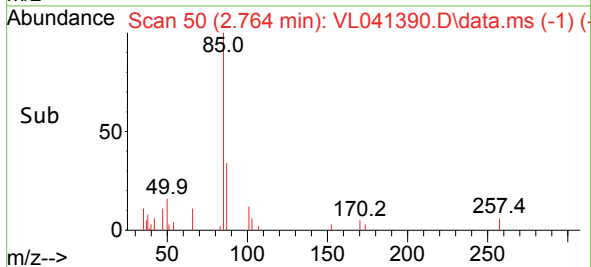
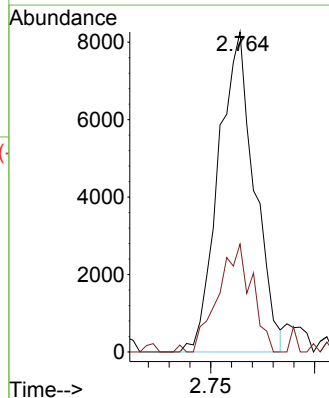
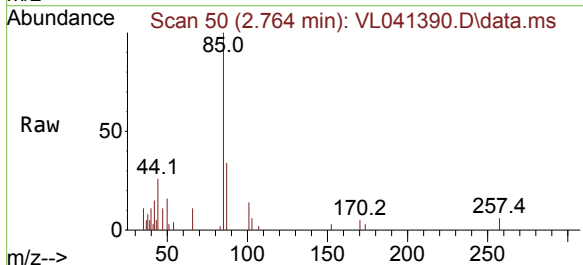
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MSVOA_L
ClientSampleId :

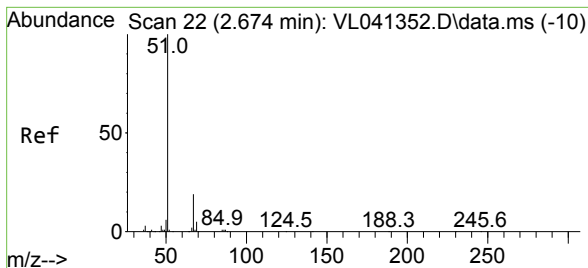
Tgt Ion: 49 Resp: 968880
Ion Ratio Lower Upper
49 100
128 46.0 22.8 68.3
130 59.2 28.9 86.7



#2
Dichlorodifluoromethane
Concen: 0.060 ppbv
RT: 2.764 min Scan# 50
Delta R.T. -0.010 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

Tgt Ion: 85 Resp: 9938
Ion Ratio Lower Upper
85 100
87 33.7 25.9 38.9

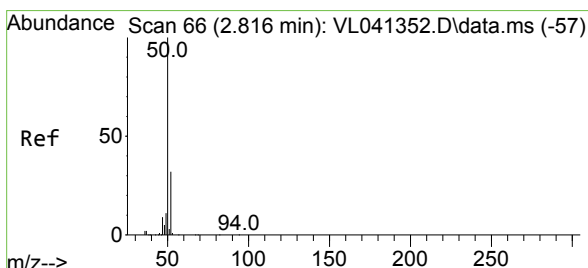
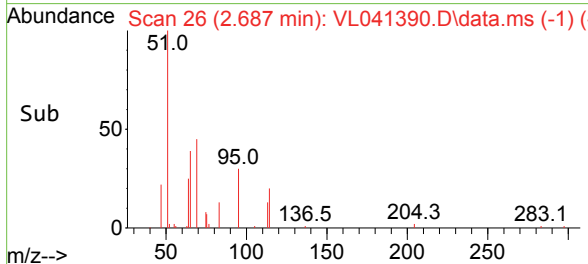
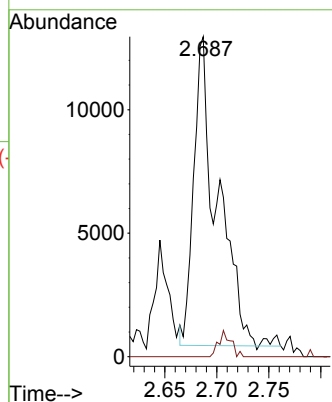
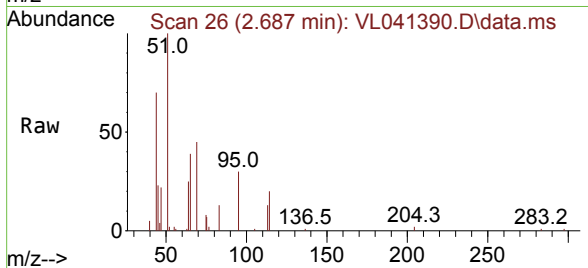




#3
Chlorodifluoromethane
Concen: 0.119 ppbv
RT: 2.687 min Scan# 21
Delta R.T. -0.032 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

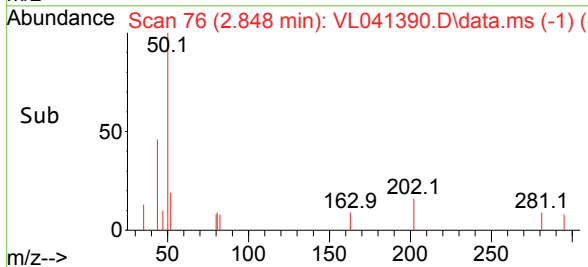
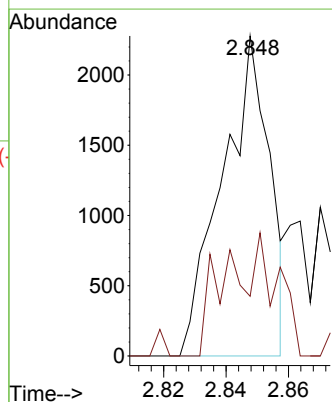
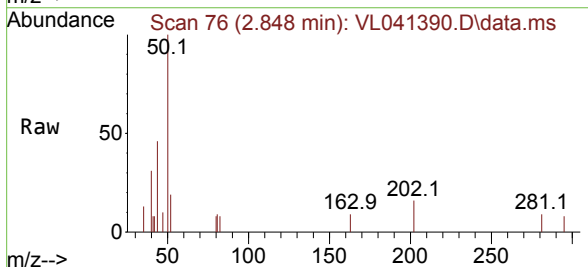
Instrument :
MSVOA_L
ClientSampleId :

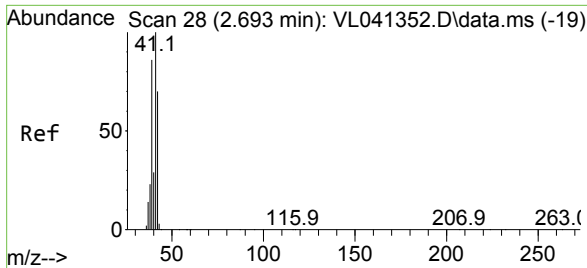
Tgt Ion: 51 Resp: 19943
Ion Ratio Lower Upper
51 100
67 4.3 14.3 21.5#



#4
Chloromethane
Concen: 0.037 ppbv
RT: 2.848 min Scan# 76
Delta R.T. -0.006 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

Tgt Ion: 50 Resp: 2394
Ion Ratio Lower Upper
50 100
52 22.0 25.6 38.4#

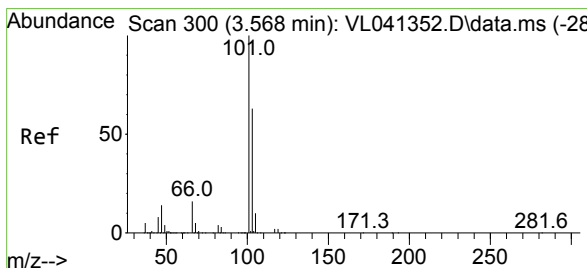
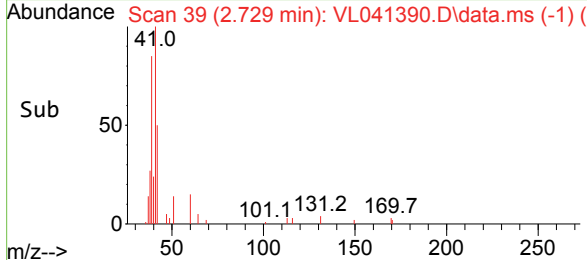
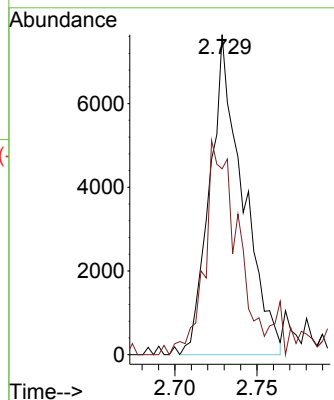
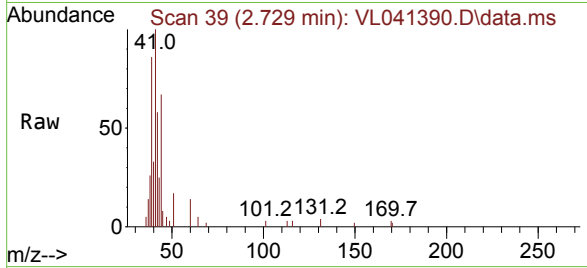




#9
Propene
Concen: 0.185 ppbv
RT: 2.729 min Scan# 306
Delta R.T. -0.006 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

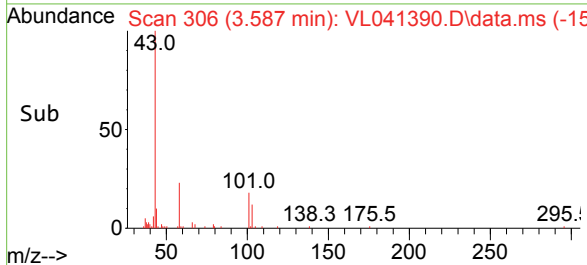
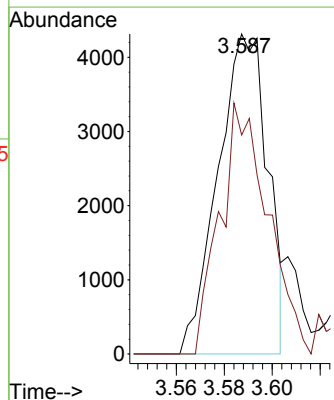
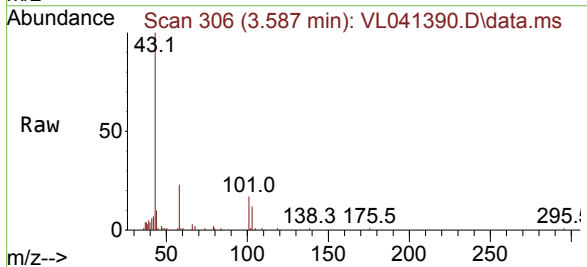
Instrument :
MSVOA_L
ClientSampleId :

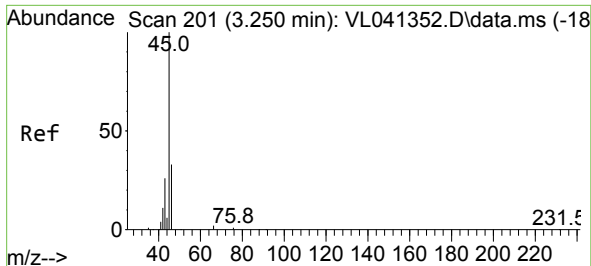
Tgt Ion: 41 Resp: 10693
Ion Ratio Lower Upper
41 100
42 78.0 55.8 83.8



#11
Trichlorofluoromethane
Concen: 0.039 ppbv
RT: 3.587 min Scan# 306
Delta R.T. -0.006 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

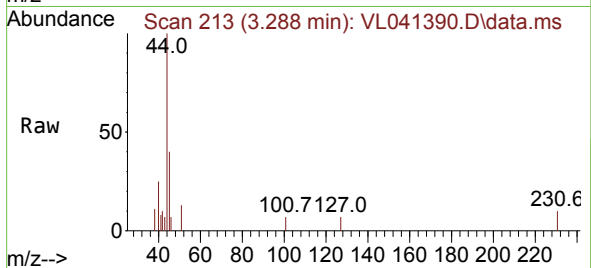
Tgt Ion: 101 Resp: 6207
Ion Ratio Lower Upper
101 100
103 68.4 50.5 75.7



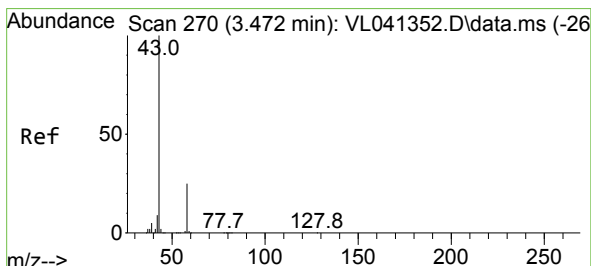
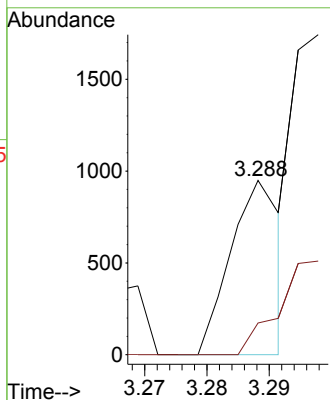
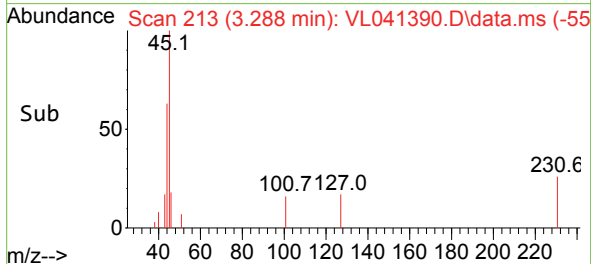


#13
Ethanol
Concen: 0.041 ppbv
RT: 3.288 min Scan# 213
Delta R.T. 0.006 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

Instrument :
MSVOA_L
ClientSampleId :

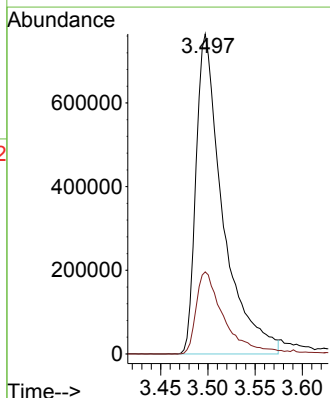
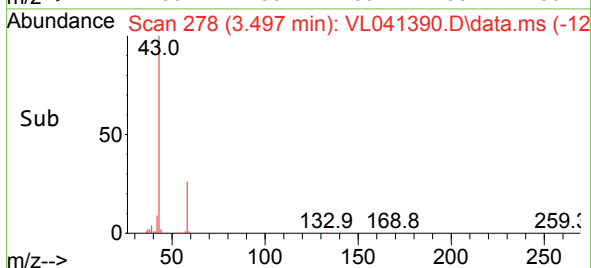
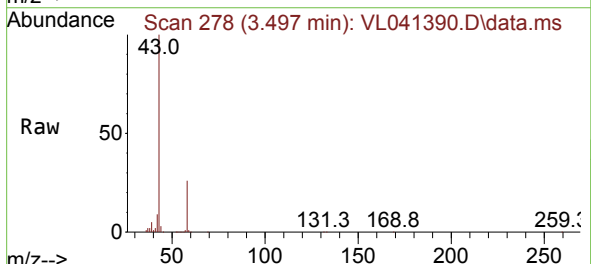


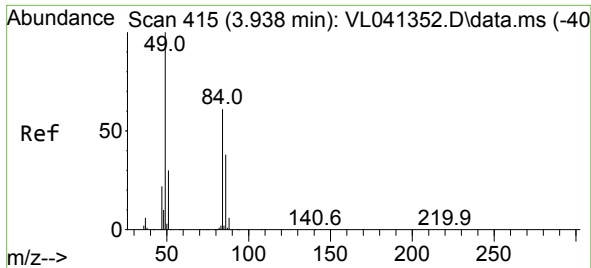
Tgt Ion: 45 Resp: 530
Ion Ratio Lower Upper
45 100
46 0.0 13.3 53.3#



#15
Acetone
Concen: 11.769 ppbv
RT: 3.497 min Scan# 278
Delta R.T. -0.003 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

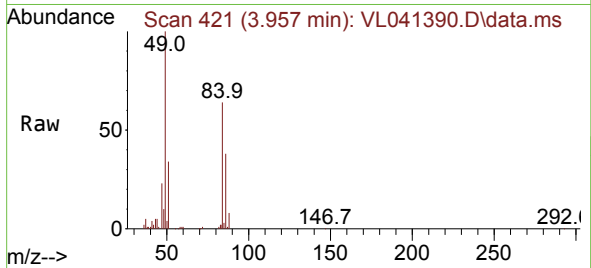
Tgt Ion: 43 Resp: 1505990
Ion Ratio Lower Upper
43 100
58 28.3 20.3 30.5





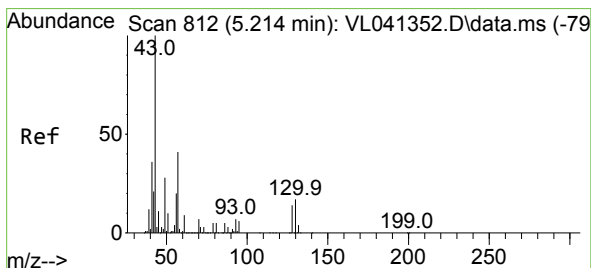
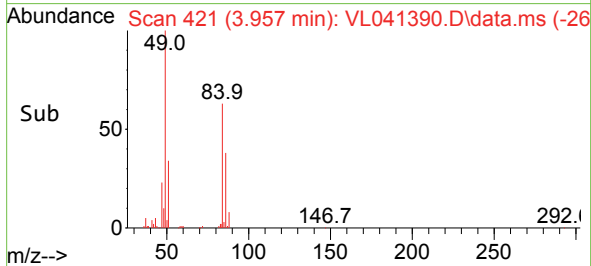
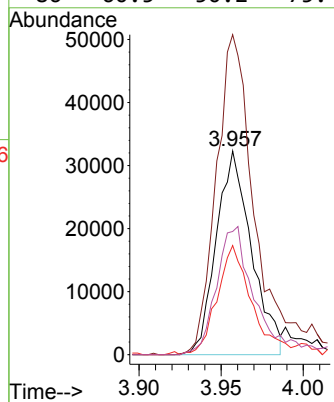
#20
Methylene Chloride
Concen: 1.040 ppbv
RT: 3.957 min Scan# 415
Delta R.T. -0.006 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 48266

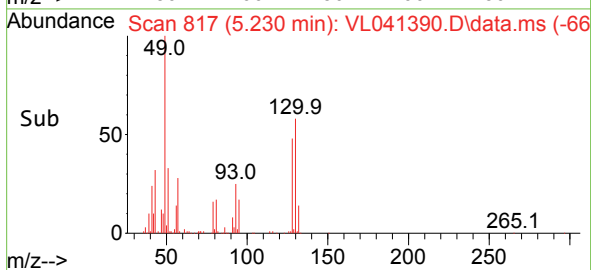
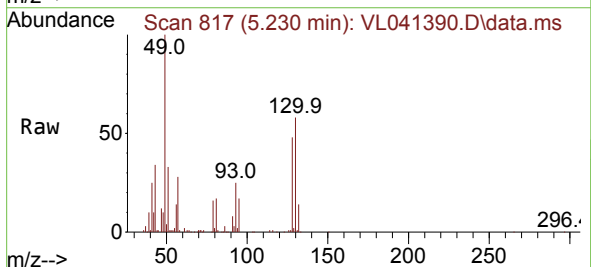
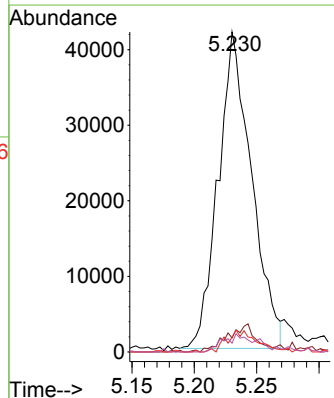
Ion	Ratio	Lower	Upper
84	100		
49	156.7	131.8	197.6
51	53.6	39.6	59.4
86	60.5	50.2	75.4

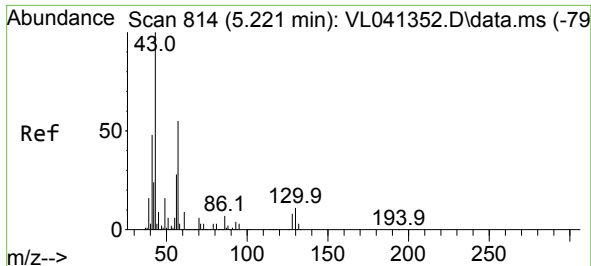


#25
Ethyl Acetate
Concen: 0.331 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

Tgt Ion: 43 Resp: 78061

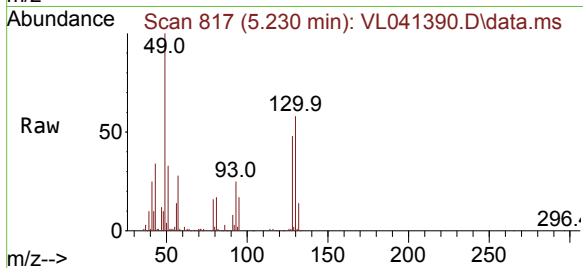
Ion	Ratio	Lower	Upper
43	100		
45	8.2	8.3	12.5#
61	6.5	7.7	11.5#
70	6.5	5.6	8.4



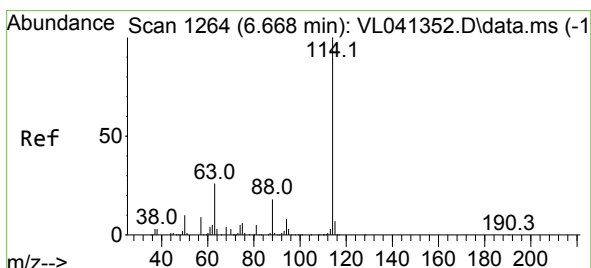
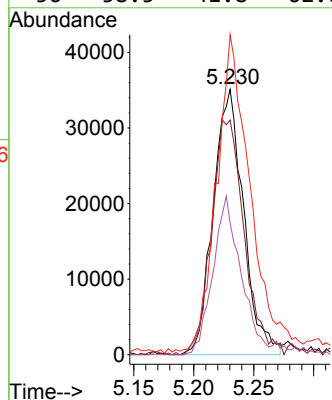
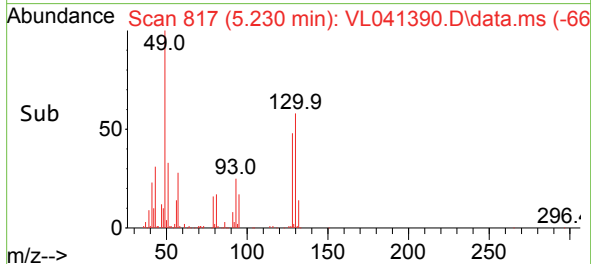


#26
Hexane
Concen: 0.593 ppbv
RT: 5.230 min Scan# 814
Delta R.T. 0.000 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

Instrument :
MSVOA_L
ClientSampleId :

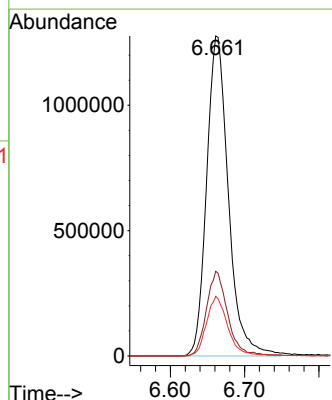
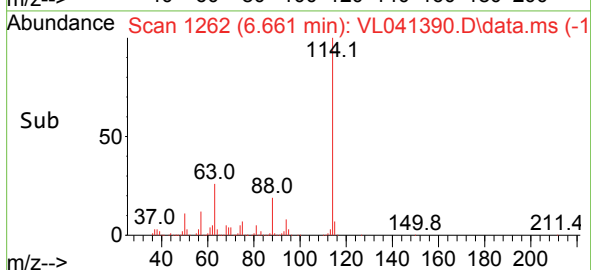
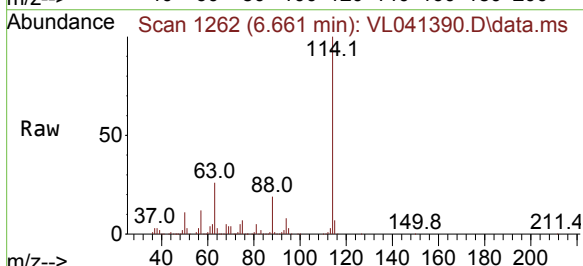


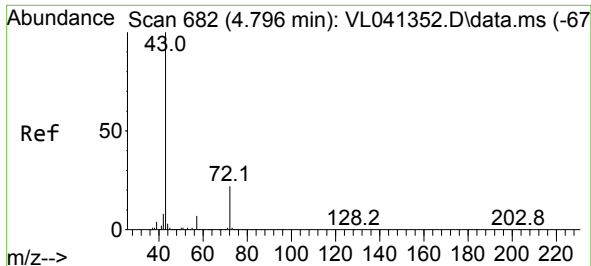
Tgt Ion: 57 Resp: 61847
Ion Ratio Lower Upper
57 100
41 97.7 73.7 110.5
43 139.2 182.2 273.2#
56 58.5 41.8 62.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.661 min Scan# 1262
Delta R.T. -0.006 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

Tgt Ion: 114 Resp: 2594771
Ion Ratio Lower Upper
114 100
63 26.1 20.6 31.0
88 18.4 14.6 21.8

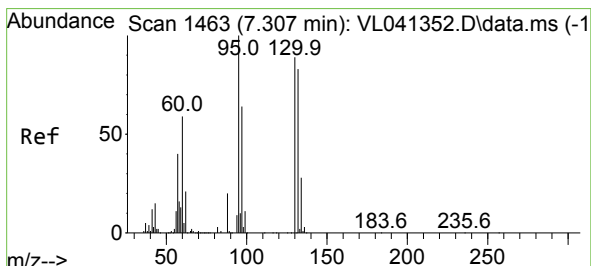
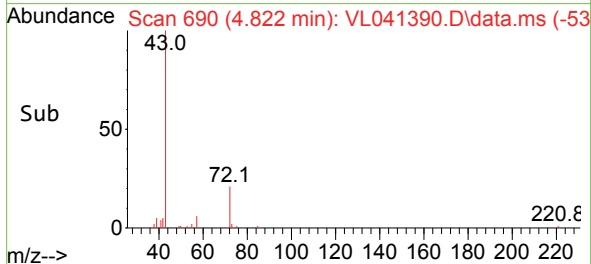
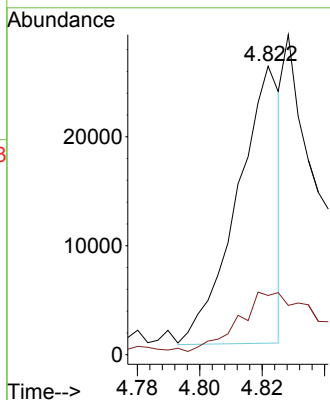
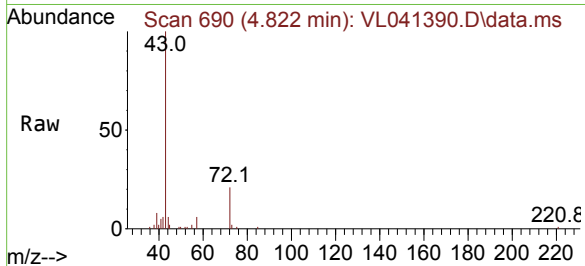




#34
2-Butanone
Concen: 0.177 ppbv
RT: 4.822 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

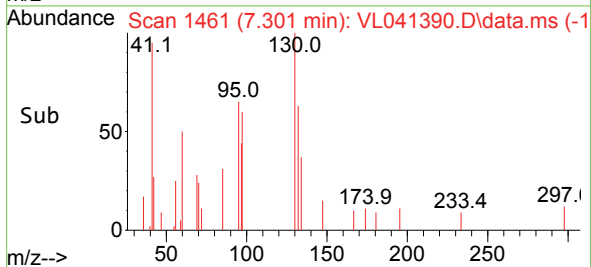
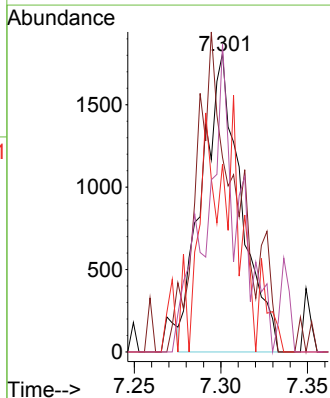
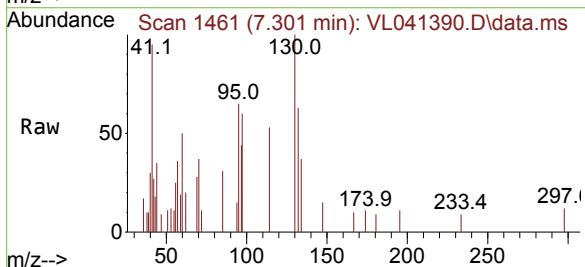
Instrument :
MSVOA_L
ClientSampleId :

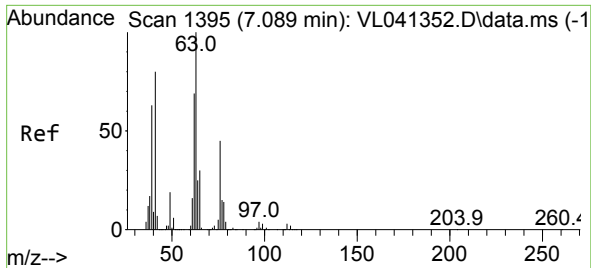
Tgt Ion: 43 Resp: 24291
Ion Ratio Lower Upper
43 100
72 52.7 17.2 25.8#



#38
Trichloroethene
Concen: 0.030 ppbv
RT: 7.301 min Scan# 1461
Delta R.T. -0.003 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

Tgt Ion:130 Resp: 2845
Ion Ratio Lower Upper
130 100
95 65.2 90.0 135.0#
132 62.9 74.8 112.2#
97 93.2 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 0.092 ppbv

RT: 6.713 min Scan# 1

Delta R.T. -0.376 min

Lab File: VL041390.D

Acq: 22 Jul 2024 17:37

Instrument :

MSVOA_L

ClientSampleId :

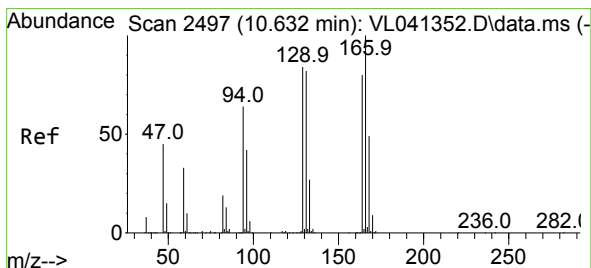
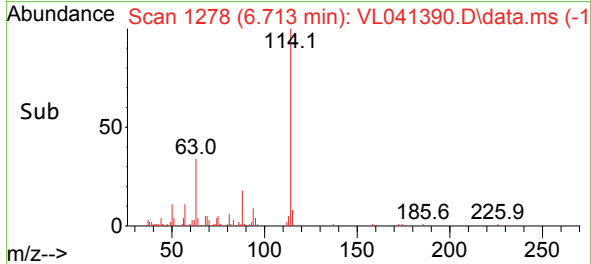
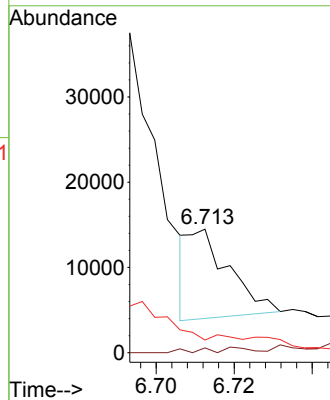
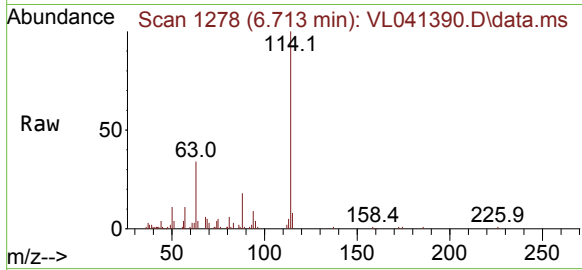
Tgt Ion: 63 Resp: 7597

Ion Ratio Lower Upper

63 100

41 1.3 64.0 96.0#

62 0.0 55.2 82.8#



#52

Tetrachloroethene

Concen: 0.418 ppbv

RT: 10.613 min Scan# 2491

Delta R.T. -0.006 min

Lab File: VL041390.D

Acq: 22 Jul 2024 17:37

Tgt Ion:164 Resp: 36076

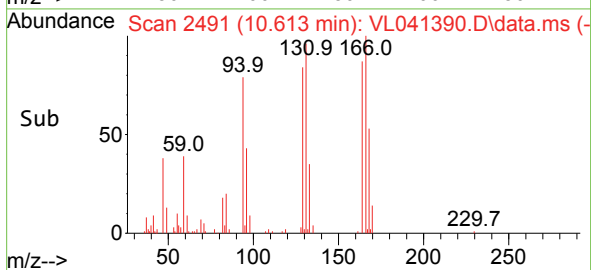
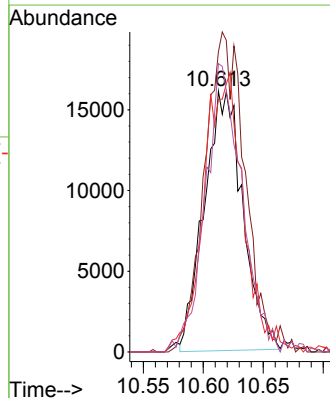
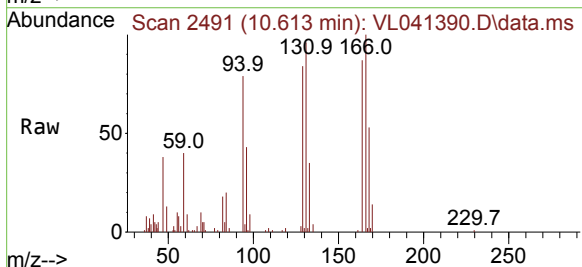
Ion Ratio Lower Upper

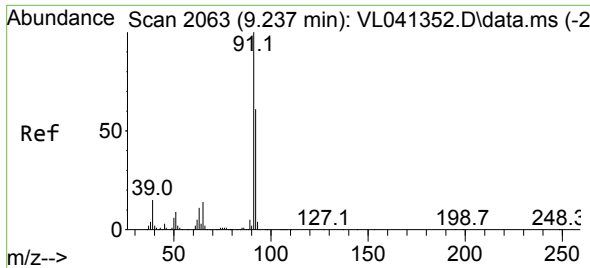
164 100

166 110.5 99.8 149.8

129 94.1 83.8 125.6

131 111.9 82.3 123.5

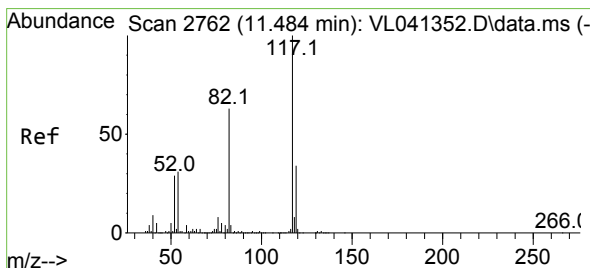
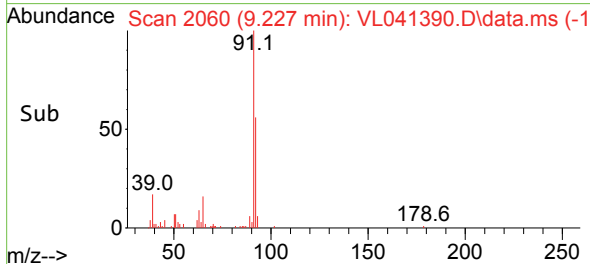
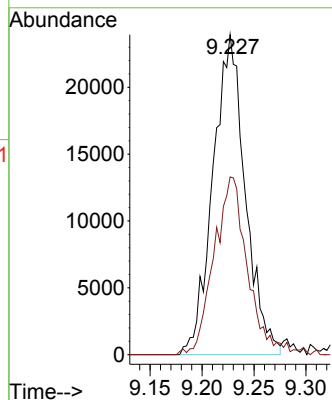
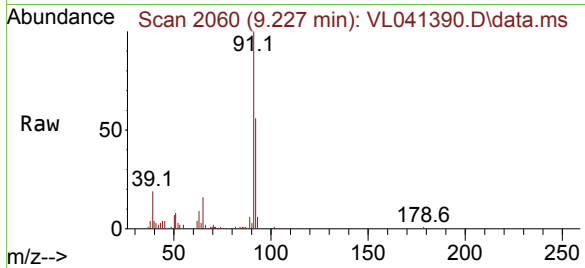




#53
Toluene
Concen: 0.214 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

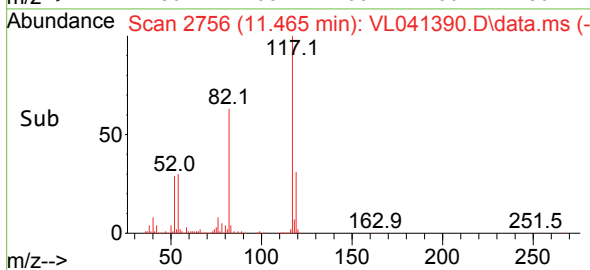
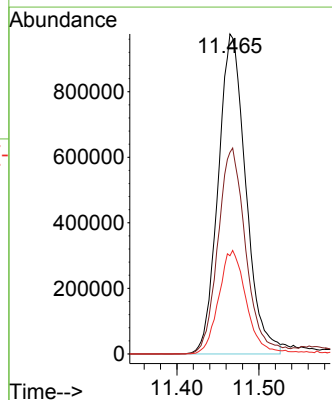
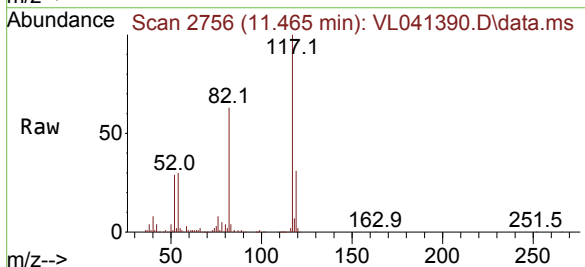
Instrument :
MSVOA_L
ClientSampleId :

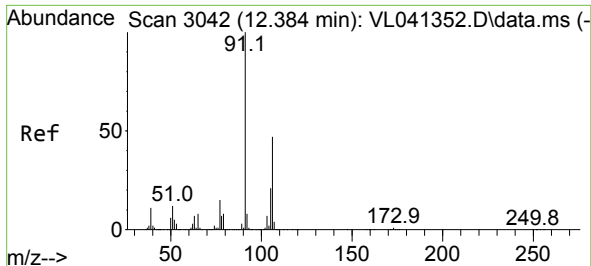
Tgt Ion: 91 Resp: 51823
Ion Ratio Lower Upper
91 100
92 58.1 48.5 72.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.003 min
Lab File: VL041390.D
Acq: 22 Jul 2024 17:37

Tgt Ion: 117 Resp: 2278796
Ion Ratio Lower Upper
117 100
82 65.1 50.6 75.8
119 34.0 24.7 37.1





#59

m/p-Xylene

Concen: 0.048 ppbv

RT: 12.368 min Scan# 3042

Delta R.T. -0.003 min

Lab File: VL041390.D

Acq: 22 Jul 2024 17:37

Instrument :

MSVOA_L

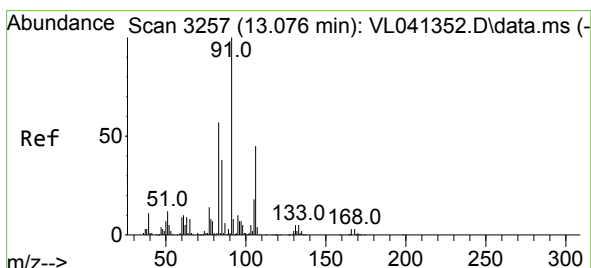
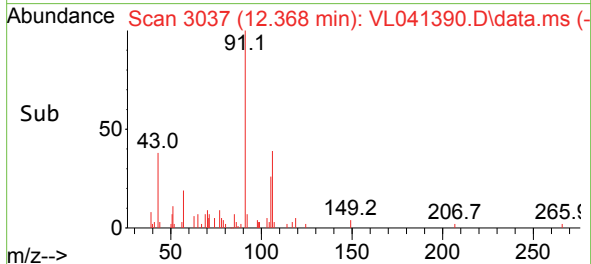
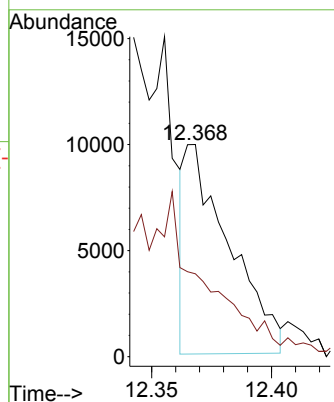
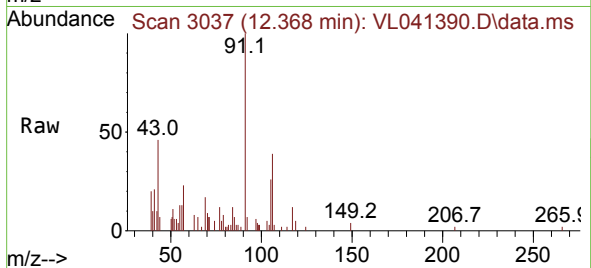
ClientSampleId :

Tgt Ion: 91 Resp: 12732

Ion Ratio Lower Upper

91 100

106 0.0 35.6 53.4#



#60

o-Xylene

Concen: 0.048 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.000 min

Lab File: VL041390.D

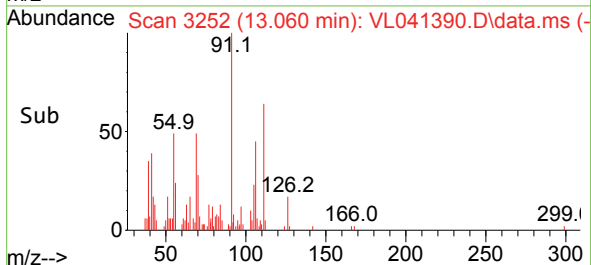
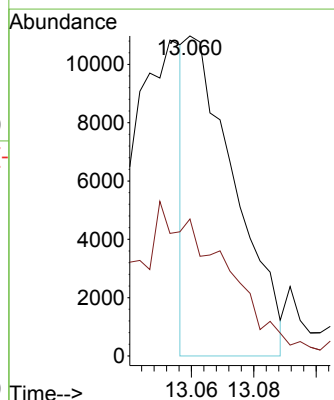
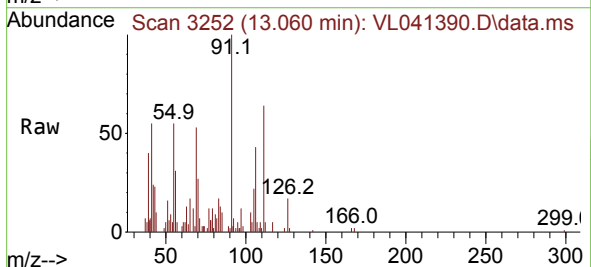
Acq: 22 Jul 2024 17:37

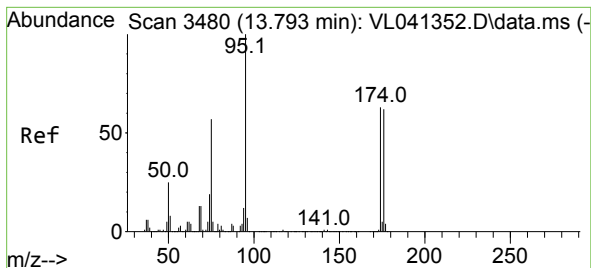
Tgt Ion: 91 Resp: 11832

Ion Ratio Lower Upper

91 100

106 0.0 23.3 69.8#

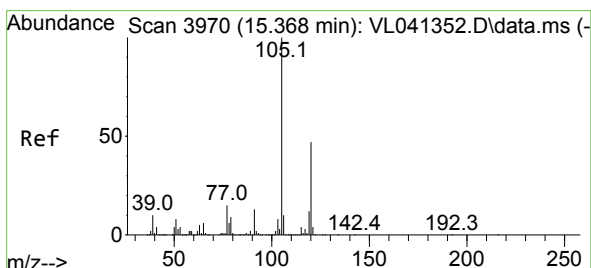
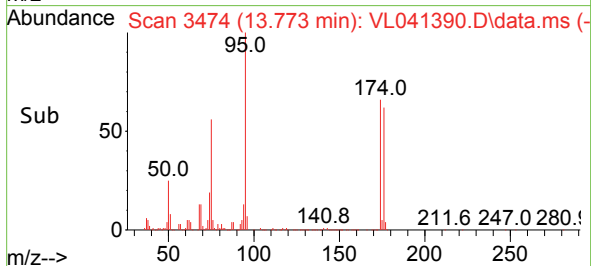
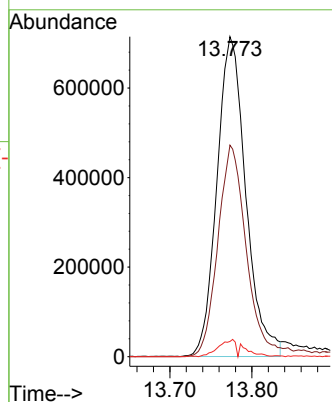
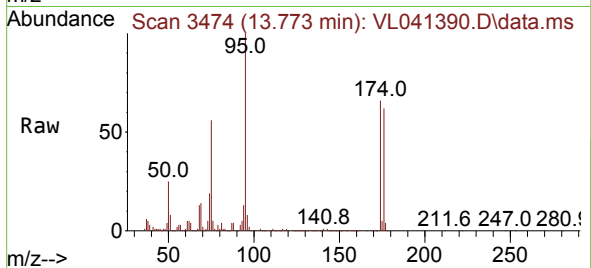




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.239 ppbv
 RT: 13.773 min Scan# 3480
 Delta R.T. -0.003 min
 Lab File: VL041390.D
 Acq: 22 Jul 2024 17:37

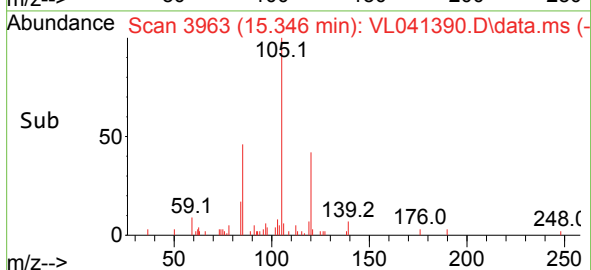
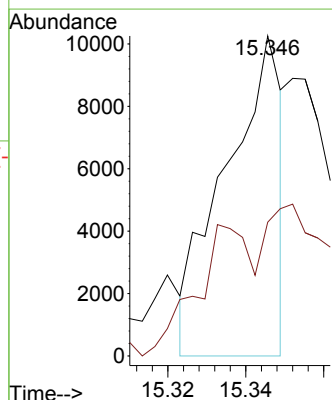
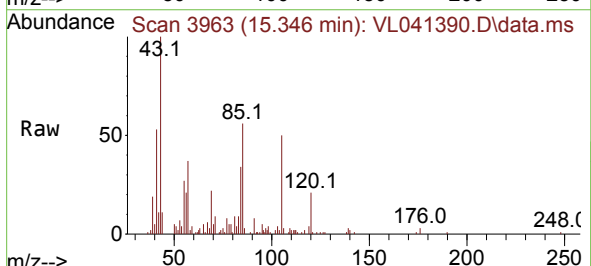
Instrument :
 MSVOA_L
 ClientSampleId :

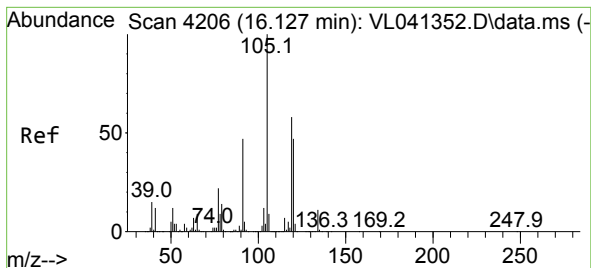
Tgt Ion: 95 Resp: 1748807
 Ion Ratio Lower Upper
 95 100
 174 68.9 53.1 79.7
 175 4.6 4.0 6.0



#73
 1,3,5-Trimethylbenzene
 Concen: 0.040 ppbv
 RT: 15.346 min Scan# 3963
 Delta R.T. -0.003 min
 Lab File: VL041390.D
 Acq: 22 Jul 2024 17:37

Tgt Ion: 105 Resp: 10276
 Ion Ratio Lower Upper
 105 100
 120 33.1 37.3 55.9#





#74

1,2,4-Trimethylbenzene

Concen: 0.093 ppbv

RT: 16.104 min Scan# 41

Delta R.T. 0.000 min

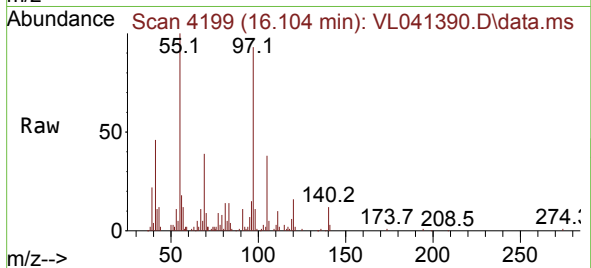
Lab File: VL041390.D

Acq: 22 Jul 2024 17:37

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 26636

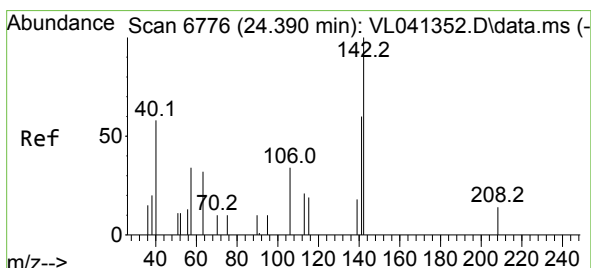
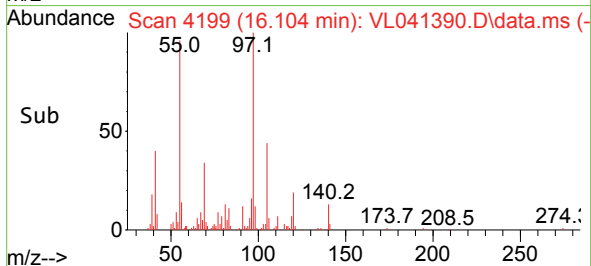
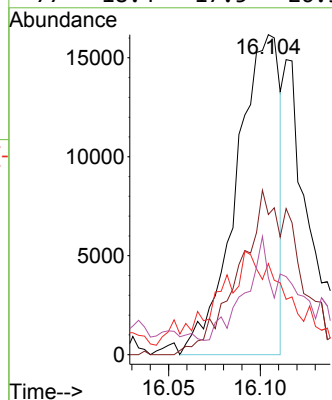
Ion Ratio Lower Upper

105 100

120 42.5 37.8 56.8

91 22.0 38.0 57.0#

77 18.4 17.5 26.3



#80

Naphthalene,2-methyl-

Concen: 0.077 ppbv

RT: 24.345 min Scan# 6762

Delta R.T. -0.035 min

Lab File: VL041390.D

Acq: 22 Jul 2024 17:37

Tgt Ion:142 Resp: 31

Ion Ratio Lower Upper

142 100

141 0.0 37.9 56.9#

115 0.0 11.0 16.4#

