

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012524\
 Data File : VL041027.D
 Acq On : 25 Jan 2024 13:23
 Operator : SY/MD
 Sample : P1187-15 MDL 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 26 00:26:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jan 26 00:23:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1090537	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2869415	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2484337	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.760	95	1868080	9.955	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.716	85	124431	0.517	ppbv	92
3) Chlorodifluoromethane	2.661	51	95805	0.522	ppbv	98
4) Chloromethane	2.799	50	35856	0.522	ppbv	98
5) Vinyl Chloride	2.906	62	32887	0.488	ppbv	98
6) Bromomethane	3.105	94	16094	0.548	ppbv #	79
7) Chloroethane	3.182	64	12039	0.496	ppbv #	83
8) Dichlorotetrafluoroethane	2.844	85	89336	0.496	ppbv	97
9) Propene	2.677	41	30596	0.509	ppbv	98
10) Heptane	7.561	43	41163	0.278	ppbv #	28
11) Trichlorofluoromethane	3.549	101	93616	0.482	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.050	101	69457	0.494	ppbv	98
13) Ethanol	3.240	45	4452	0.310	ppbv #	3
14) Bromoethene	3.353	108	25614	0.474	ppbv #	88
15) Acetone	3.468	43	75292	0.540	ppbv	92
16) 1,3-Butadiene	2.970	39	28236	0.423	ppbv	89
17) tert-Butyl alcohol	3.880	59	62597	0.547	ppbv #	93
18) 1,1-Dichloroethene	3.867	96	26414	0.439	ppbv	94
20) Methylene Chloride	3.918	84	38147	0.711	ppbv	92
21) Allyl Chloride	3.983	41	39152	0.462	ppbv	90
22) trans-1,2-Dichloroethene	4.433	96	27432	0.442	ppbv	87
23) Vinyl Acetate	4.619	43	60040	0.418	ppbv #	93
24) 1,1-Dichloroethane	4.552	63	32341	0.254	ppbv	96
25) Ethyl Acetate	5.198	43	120843	0.478	ppbv	98
26) Hexane	5.198	57	55876	0.518	ppbv	93
27) Carbon Disulfide	4.115	76	65615	0.468	ppbv #	86
28) Methyl tert-Butyl Ether	4.584	73	40263	0.450	ppbv	99
29) Chloroform	5.259	83	93393	0.489	ppbv	100
30) Cyclohexane	6.584	84	33228	0.368	ppbv #	81
31) cis-1,2-Dichloroethene	5.066	61	48905	0.483	ppbv	95
32) 1,1,1-Trichloroethane	5.983	97	90887	0.497	ppbv	97
34) 2-Butanone	4.783	43	60107	0.440	ppbv #	89
35) Carbon Tetrachloride	6.481	117	53332	0.279	ppbv	94
36) Benzene	6.359	78	109293	0.461	ppbv #	91
37) 1,2-Dichloroethane	5.793	62	69065	0.478	ppbv	98
38) Trichloroethene	7.272	130	22331	0.235	ppbv #	89
39) 1,2-Dichloropropane	7.057	63	39741	0.426	ppbv #	85
42) Bromodichloromethane	7.233	83	90557	0.438	ppbv	92
43) Methyl Methacrylate	7.471	69	33754	0.369	ppbv #	87
44) 2,2,4-Trimethylpentane	7.307	57	87941	0.221	ppbv #	41
45) t-1,3-Dichloropropene	8.683	75	5782	0.093	ppbv	99
46) cis-1,3-Dichloropropene	8.134	75	25645	0.329	ppbv #	78
47) 1,1,2-Trichloroethane	8.883	97	30245	0.301	ppbv	94
48) Dibromochloromethane	9.696	129	44405	0.261	ppbv #	46

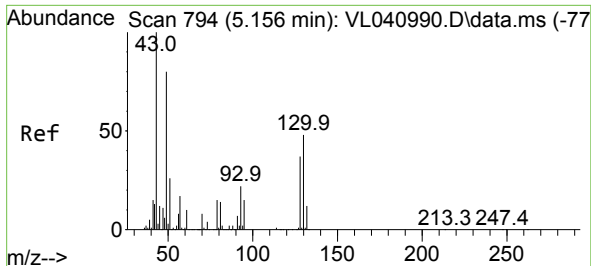
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012524\
 Data File : VL041027.D
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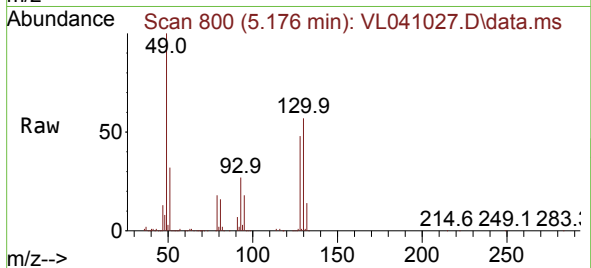
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Bromoform	12.391	173	26843	0.201	ppbv #	20
50) 4-Methyl-2-Pentanone	8.185	43	56627	0.235	ppbv #	40
52) Tetrachloroethene	10.593	164	14207	0.181	ppbv	93
53) Toluene	9.208	91	103682	0.399	ppbv	98
54) 1,2-Dibromoethane	9.989	107	28472	0.209	ppbv	98
56) 1,1,1,2-Tetrachloroethane	11.490	131	56401	0.473	ppbv #	1
57) Chlorobenzene	11.510	112	99006	0.495	ppbv	95
58) Ethyl Benzene	12.076	91	139630	0.419	ppbv	91
59) m/p-Xylene	12.362	91	103507	0.356	ppbv #	9
60) o-Xylene	13.043	91	118784	0.426	ppbv	96
61) Styrene	12.889	104	43261	0.338	ppbv	94
62) Isopropylbenzene	14.018	105	185704	0.450	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.037	83	69824	0.322	ppbv #	53
64) n-propylbenzene	14.899	120	26432	0.254	ppbv	79
65) tert-Butylbenzene	16.075	119	74658	0.207	ppbv #	1
66) Benzyl Chloride	16.313	91	4053	0.172	ppbv #	66
67) sec-Butylbenzene	16.622	105	231775	0.441	ppbv	98
69) p-Isopropyltoluene	16.985	119	104837	0.258	ppbv #	57
70) n-Butylbenzene	17.873	91	79261	0.180	ppbv #	33
71) 2-Chlorotoluene	14.789	91	142568	0.448	ppbv	99
72) 4-Ethyltoluene	15.175	105	55110	0.177	ppbv #	54
73) 1,3,5-Trimethylbenzene	15.336	105	112117	0.405	ppbv	92
74) 1,2,4-Trimethylbenzene	16.088	105	58705	0.187	ppbv	98
75) 1,3-Dichlorobenzene	16.310	146	29336	0.164	ppbv #	22
76) 1,4-Dichlorobenzene	16.458	146	48987	0.278	ppbv #	42
77) 1,2-Dichlorobenzene	17.130	146	39036	0.220	ppbv #	16
78) Hexachloro-1,3-Butadiene	22.603	225	10804	0.094	ppbv #	1
79) Naphthalene	21.381	128	30532	0.171	ppbv #	84
80) Naphthalene,2-methyl-	24.474	142	5084	0.162	ppbv	92
81) 1,2,4-Trichlorobenzene	21.123	180	16046	0.154	ppbv #	3

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



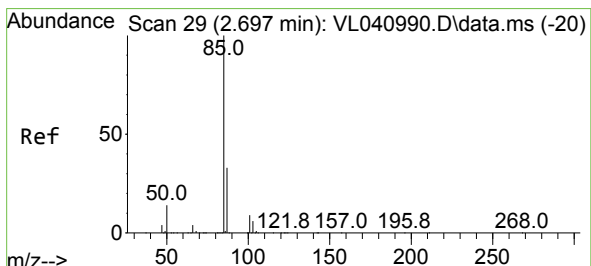
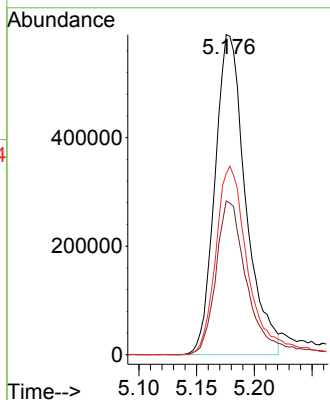
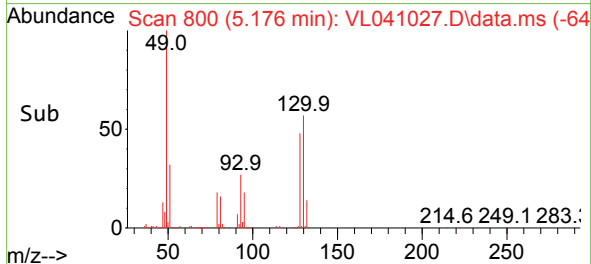
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.176 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

Instrument :
 MSVOA_L
 ClientSampleId :

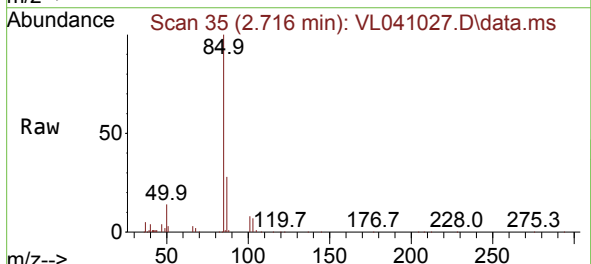


Tgt Ion: 49 Resp: 1090537

Ion	Ratio	Lower	Upper
49	100		
128	50.8	23.9	71.7
130	64.1	31.1	93.5

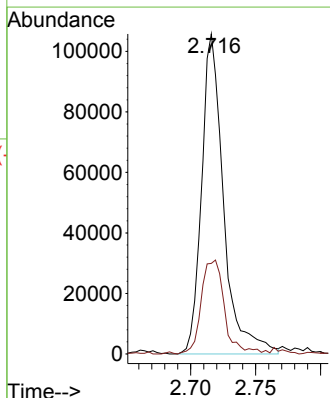
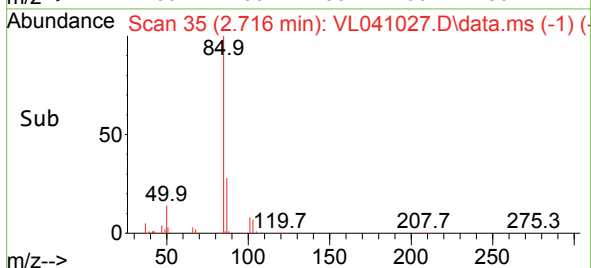


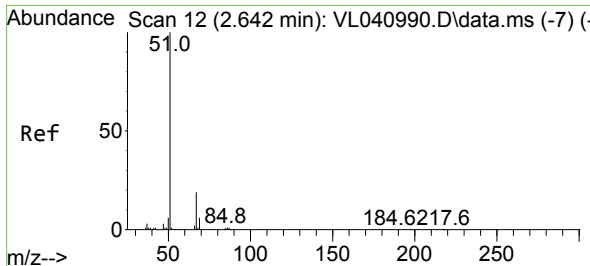
#2
 Dichlorodifluoromethane
 Concen: 0.517 ppbv
 RT: 2.716 min Scan# 35
 Delta R.T. -0.000 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23



Tgt Ion: 85 Resp: 124431

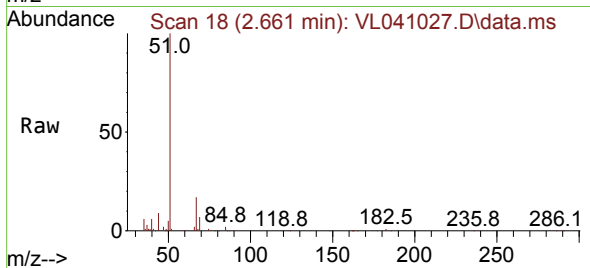
Ion	Ratio	Lower	Upper
85	100		
87	28.3	26.3	39.5



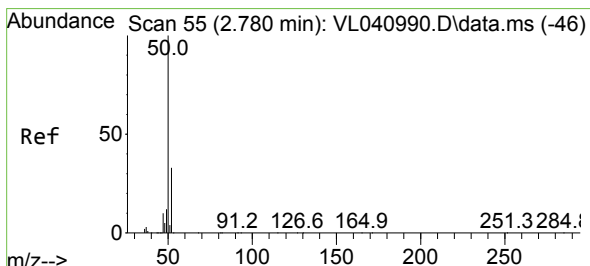
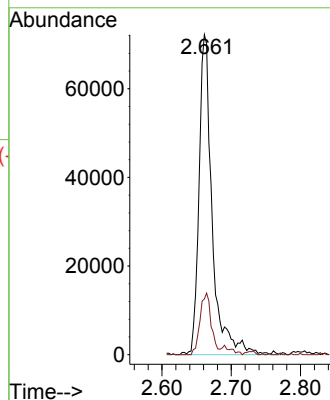
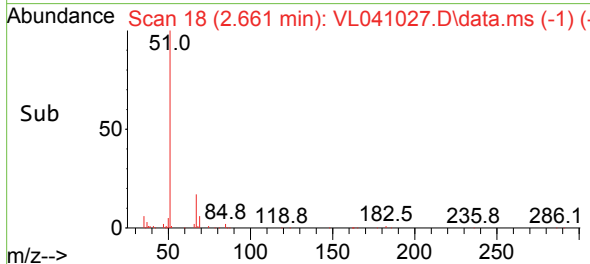


#3
Chlorodifluoromethane
Concen: 0.522 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Instrument :
MSVOA_L
ClientSampleId :

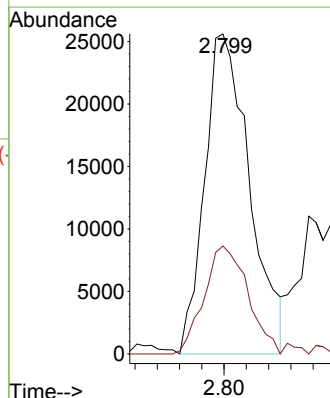
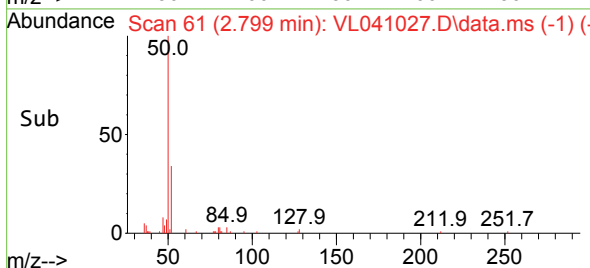
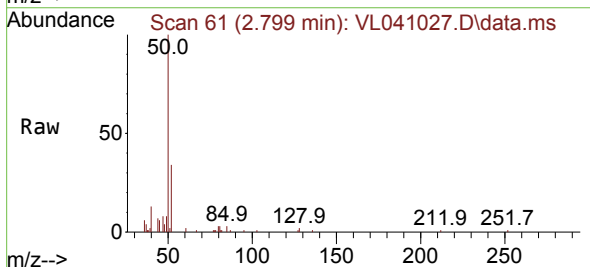


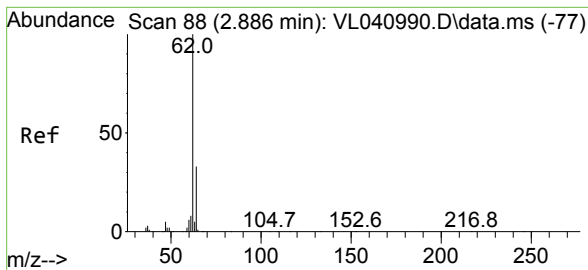
Tgt Ion: 51 Resp: 95805
Ion Ratio Lower Upper
51 100
67 19.2 14.8 22.2



#4
Chloromethane
Concen: 0.522 ppbv
RT: 2.799 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 50 Resp: 35856
Ion Ratio Lower Upper
50 100
52 33.7 26.2 39.4

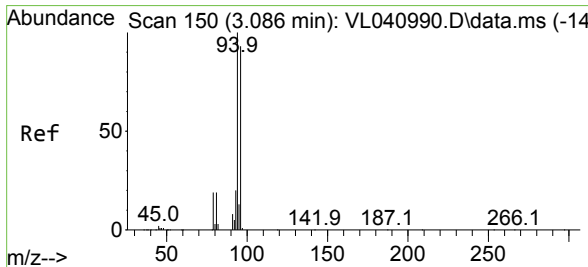
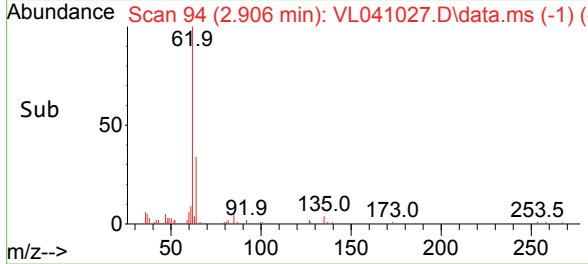
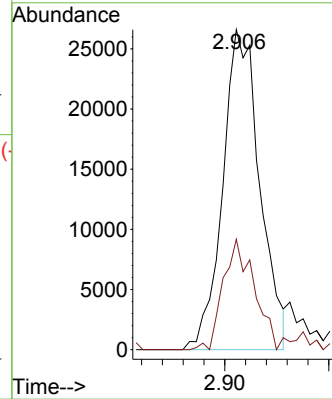
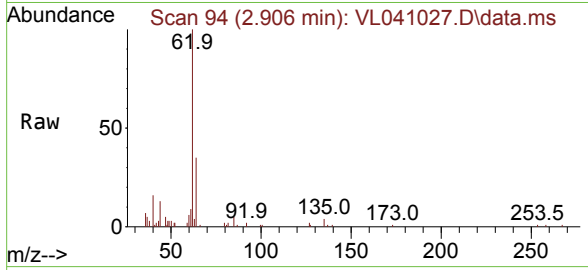




#5
 Vinyl Chloride
 Concen: 0.488 ppbv
 RT: 2.906 min Scan# 94
 Delta R.T. -0.000 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

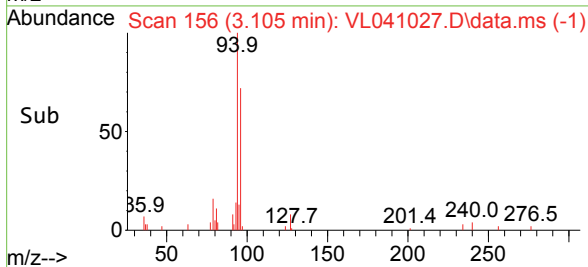
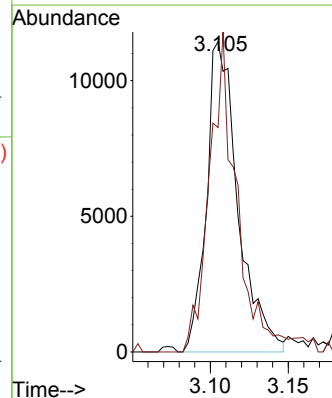
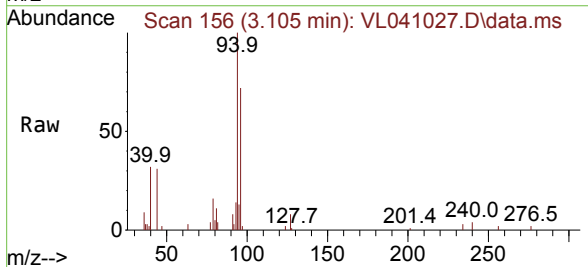
Instrument :
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 ClientSampleId :

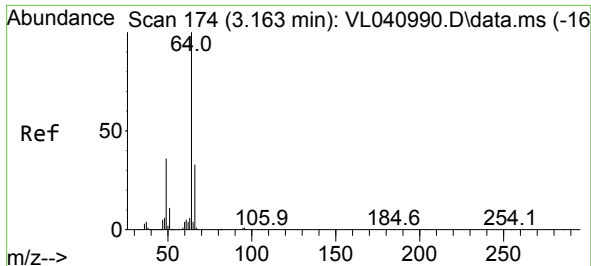
Tgt Ion: 62 Resp: 32887
 Ion Ratio Lower Upper
 62 100
 64 34.5 26.6 40.0



#6
 Bromomethane
 Concen: 0.548 ppbv
 RT: 3.105 min Scan# 156
 Delta R.T. -0.000 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

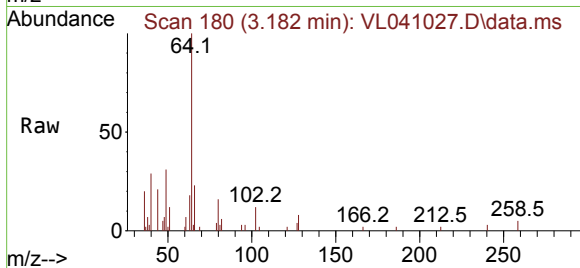
Tgt Ion: 94 Resp: 16094
 Ion Ratio Lower Upper
 94 100
 96 72.4 74.2 111.4#



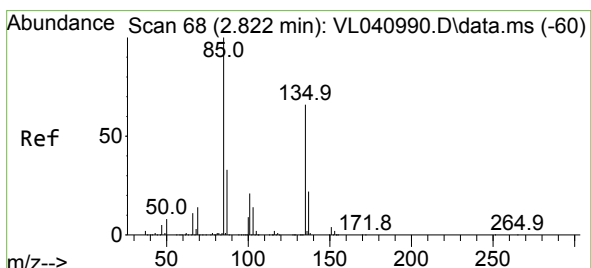
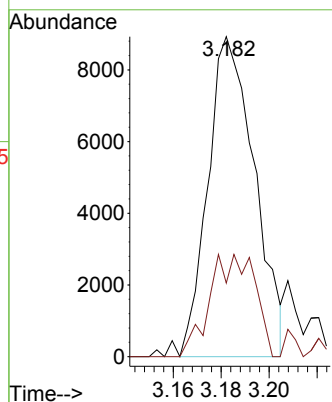
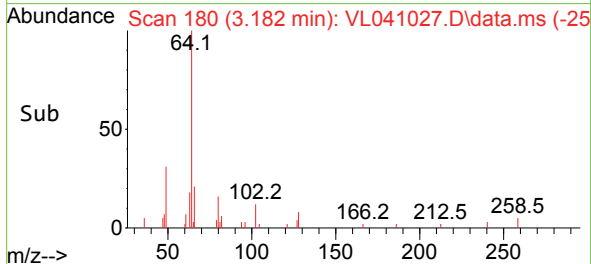


#7
Chloroethane
Concen: 0.496 ppbv
RT: 3.182 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Instrument :
MSVOA_L
ClientSampleId :

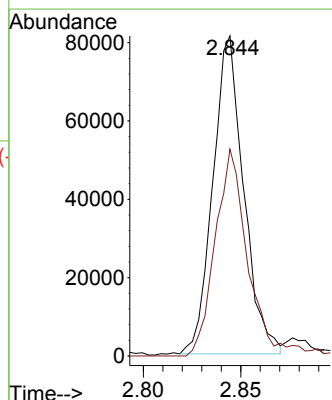
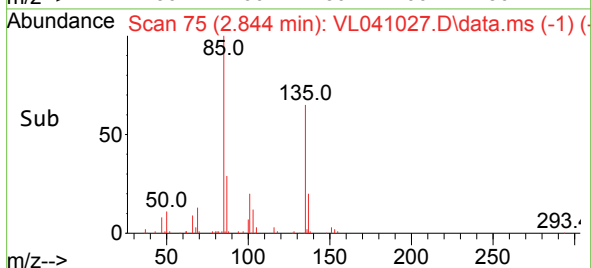
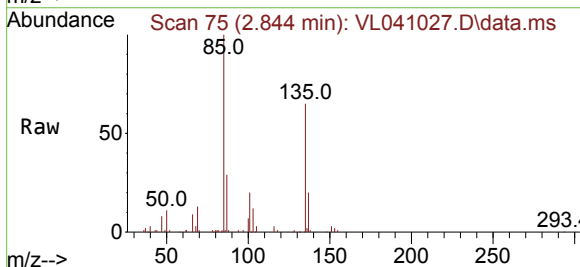


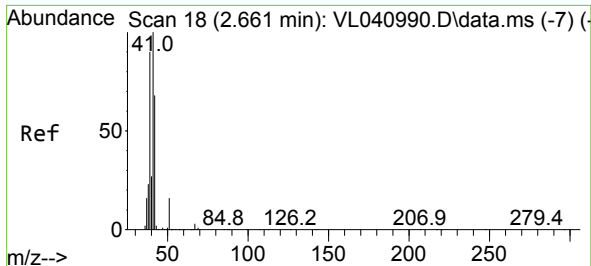
Tgt Ion: 64 Resp: 12039
Ion Ratio Lower Upper
64 100
66 23.0 26.0 39.0#



#8
Dichlorotetrafluoroethane
Concen: 0.496 ppbv
RT: 2.844 min Scan# 75
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 85 Resp: 89336
Ion Ratio Lower Upper
85 100
135 71.2 55.0 82.6

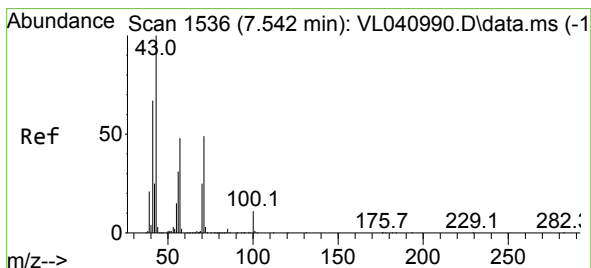
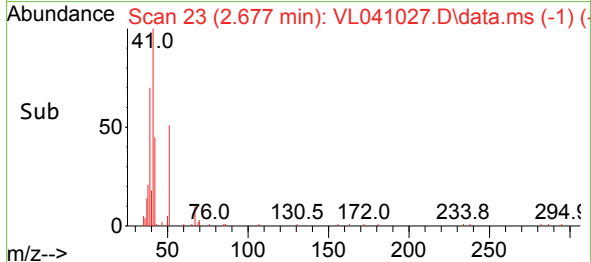
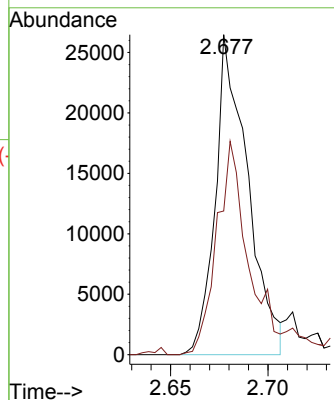
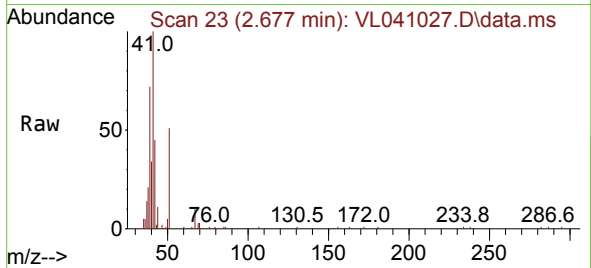




#9
 Propene
 Concen: 0.509 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

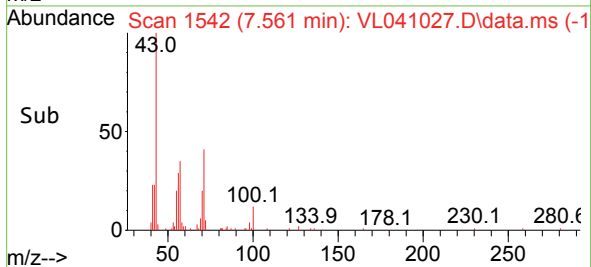
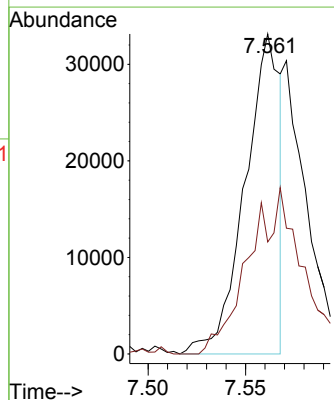
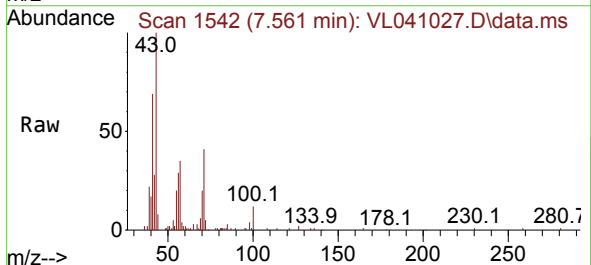
Instrument :
 MSVOA_L
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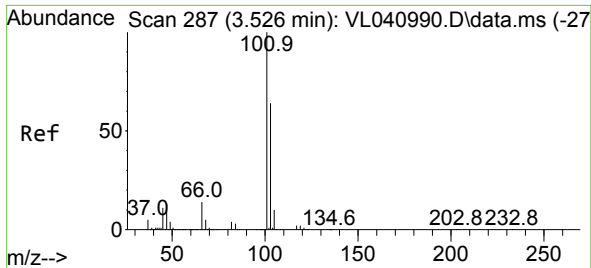
Tgt Ion: 41 Resp: 30596
 Ion Ratio Lower Upper
 41 100
 42 75.2 59.0 88.4



#10
 Heptane
 Concen: 0.278 ppbv
 RT: 7.561 min Scan# 1542
 Delta R.T. -0.003 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

Tgt Ion: 43 Resp: 41163
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.4 59.2#

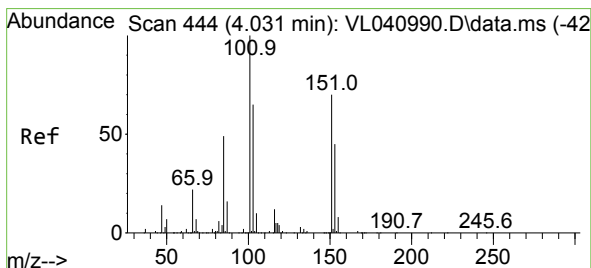
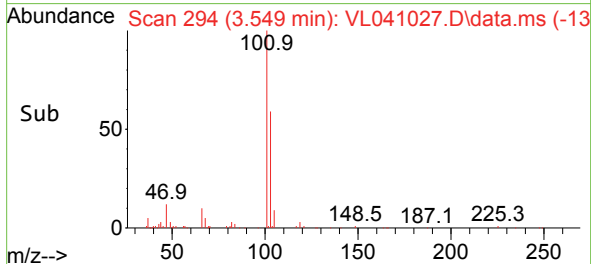
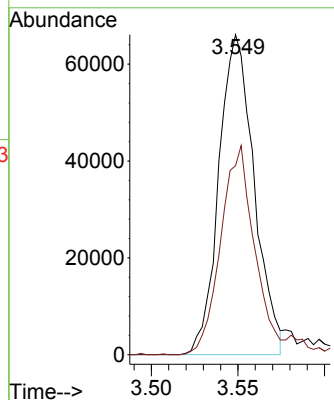
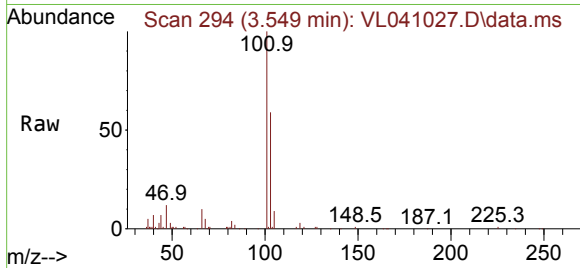




#11
 Trichlorofluoromethane
 Concen: 0.482 ppbv
 RT: 3.549 min Scan# 294
 Delta R.T. -0.000 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

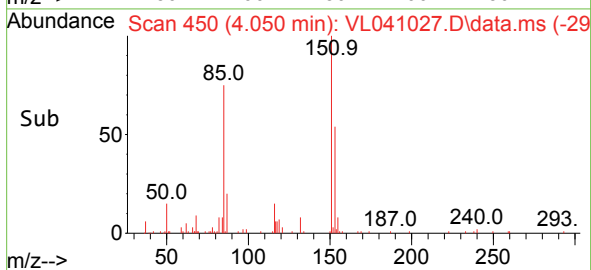
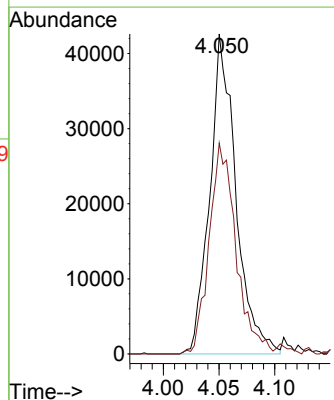
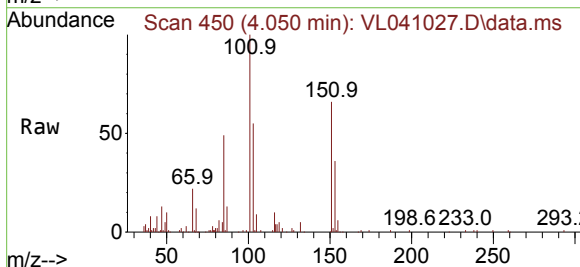
Instrument :
 MSVOA_L
 ClientSampleId :

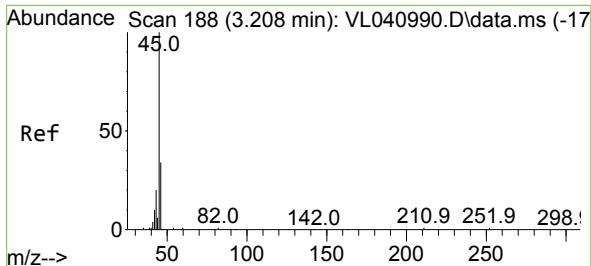
Tgt Ion:101 Resp: 93616
 Ion Ratio Lower Upper
 101 100
 103 59.0 51.4 77.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.494 ppbv
 RT: 4.050 min Scan# 450
 Delta R.T. -0.003 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

Tgt Ion:101 Resp: 69457
 Ion Ratio Lower Upper
 101 100
 151 69.0 56.6 85.0

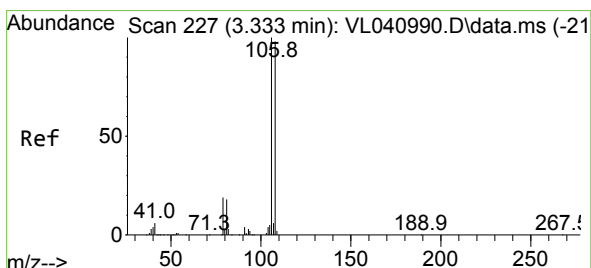
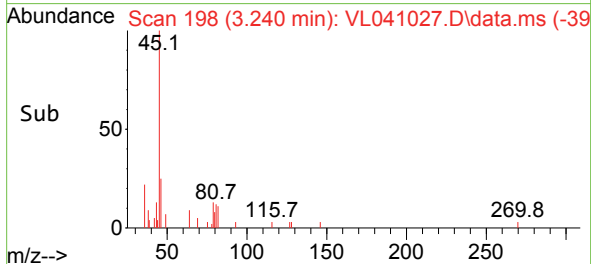
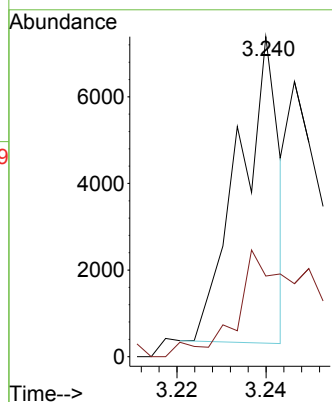
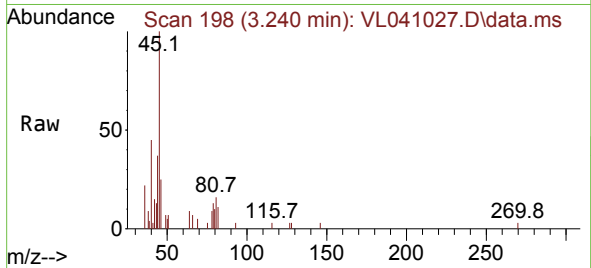




#13
Ethanol
Concen: 0.310 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.013 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

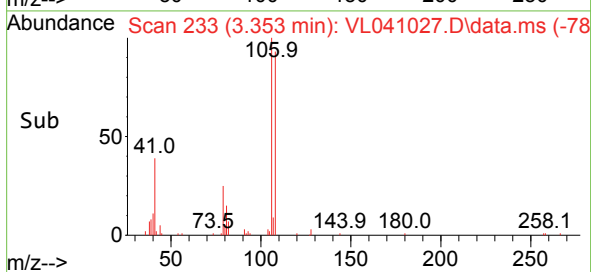
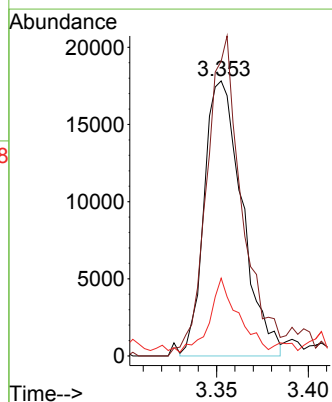
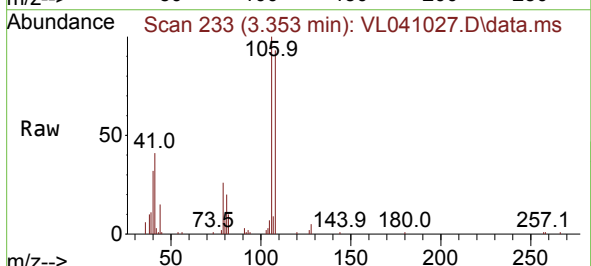
Instrument :
MSVOA_L
ClientSampleId :

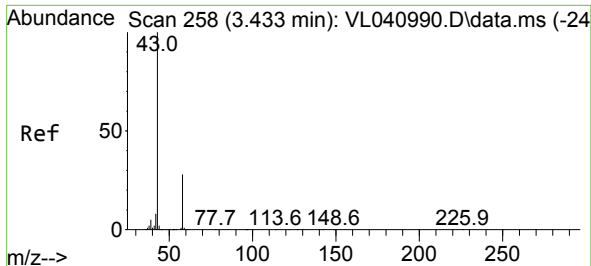
Tgt Ion: 45 Resp: 4452
Ion Ratio Lower Upper
45 100
46 101.1 16.2 64.8#



#14
Bromoethene
Concen: 0.474 ppbv
RT: 3.353 min Scan# 233
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion:108 Resp: 25614
Ion Ratio Lower Upper
108 100
106 116.3 86.4 129.6
79 34.7 16.2 24.4#





#15

Acetone

Concen: 0.540 ppbv

RT: 3.468 min Scan# 2

Delta R.T. 0.013 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

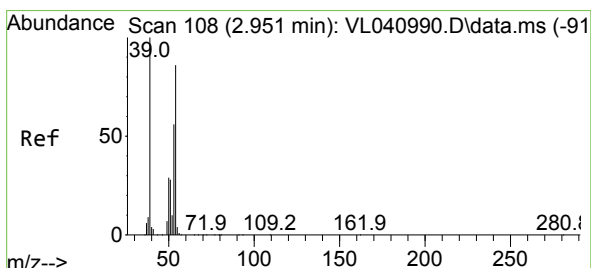
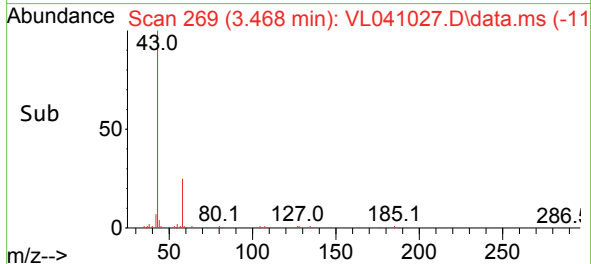
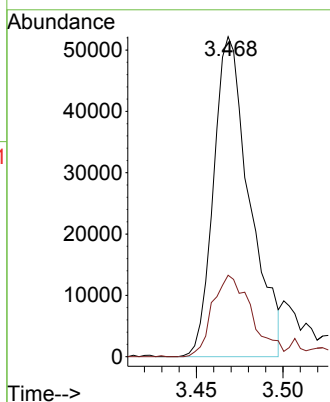
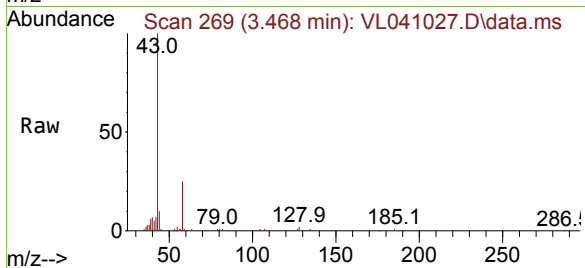
ClientSampleId :

Tgt Ion: 43 Resp: 75292

Ion Ratio Lower Upper

43 100

58 31.9 22.2 33.2



#16

1,3-Butadiene

Concen: 0.423 ppbv

RT: 2.970 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL041027.D

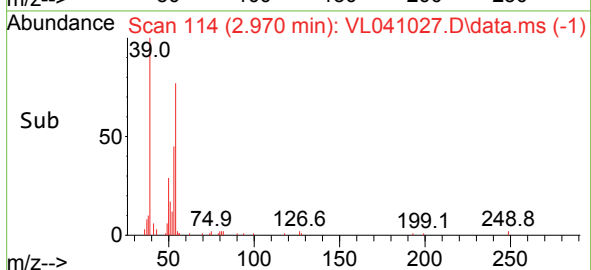
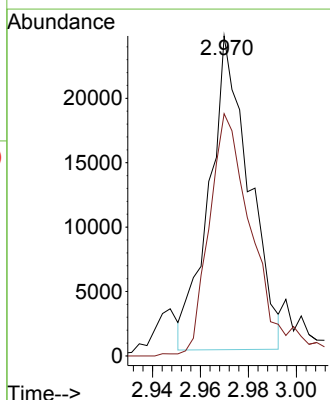
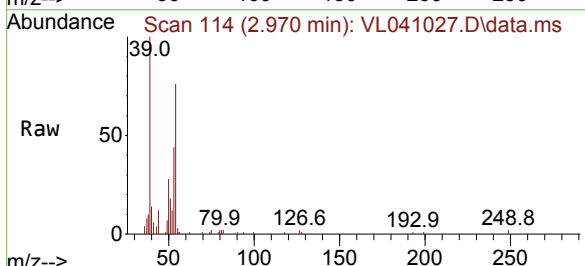
Acq: 25 Jan 2024 13:23

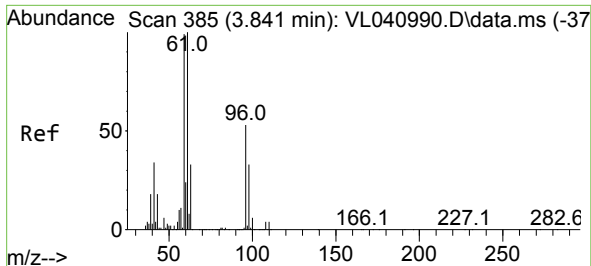
Tgt Ion: 39 Resp: 28236

Ion Ratio Lower Upper

39 100

54 88.2 62.7 94.1

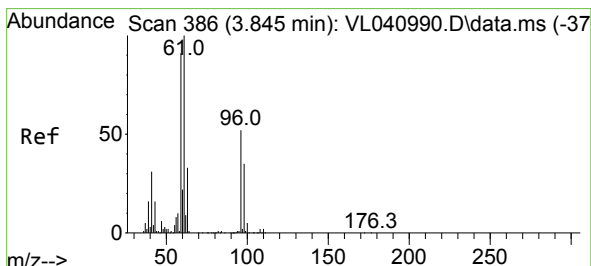
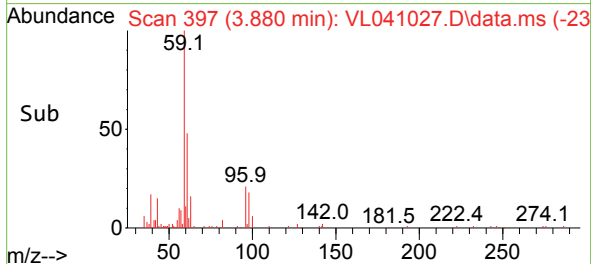
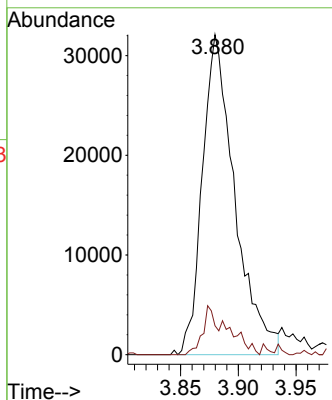
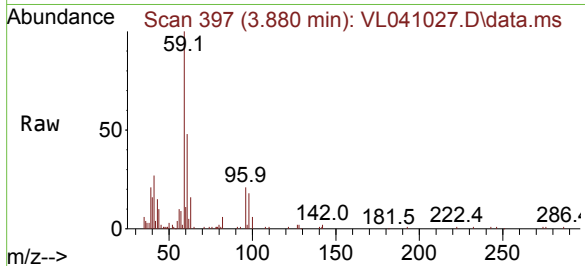




#17
tert-Butyl alcohol
Concen: 0.547 ppbv
RT: 3.880 min Scan# 397
Delta R.T. 0.016 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

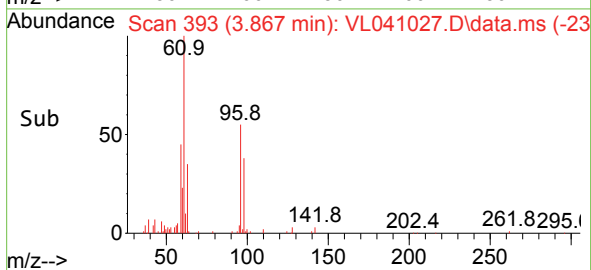
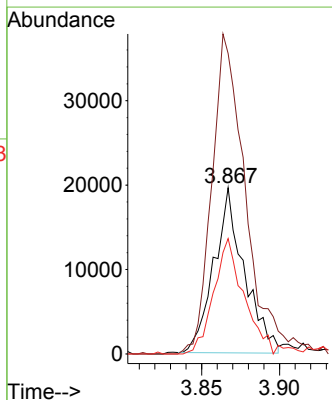
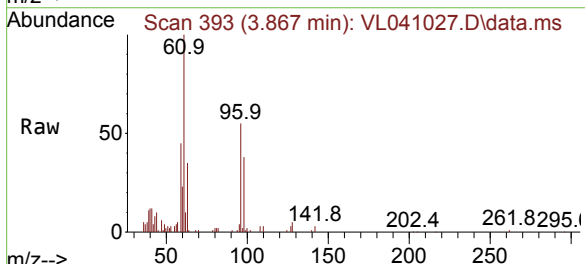
Instrument :
MSVOA_L
ClientSampled :

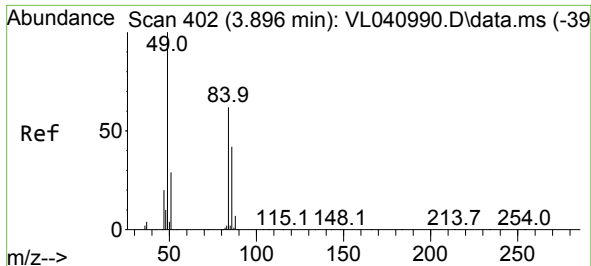
Tgt Ion: 59 Resp: 62597
Ion Ratio Lower Upper
59 100
57 13.5 8.7 13.1#



#18
1,1-Dichloroethene
Concen: 0.439 ppbv
RT: 3.867 min Scan# 393
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 96 Resp: 26414
Ion Ratio Lower Upper
96 100
61 182.3 153.8 230.8
98 70.0 53.7 80.5

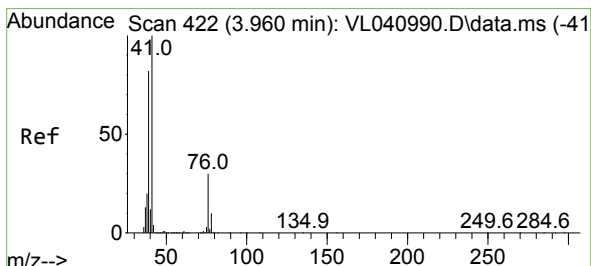
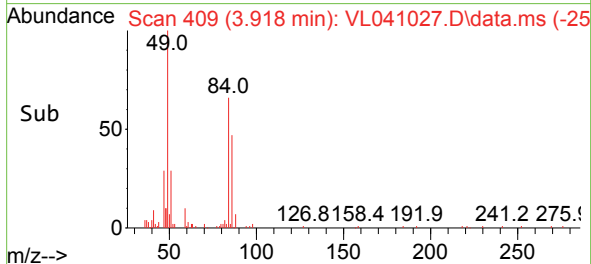
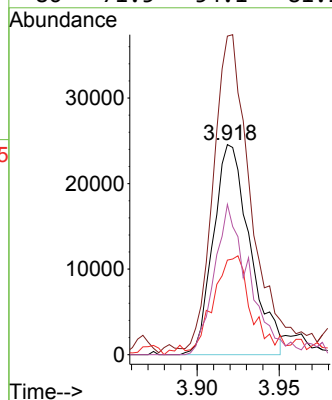
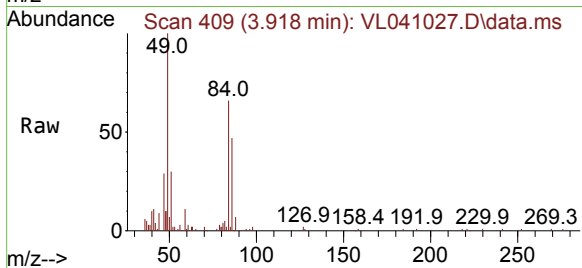




#20
Methylene Chloride
Concen: 0.711 ppbv
RT: 3.918 min Scan# 409
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

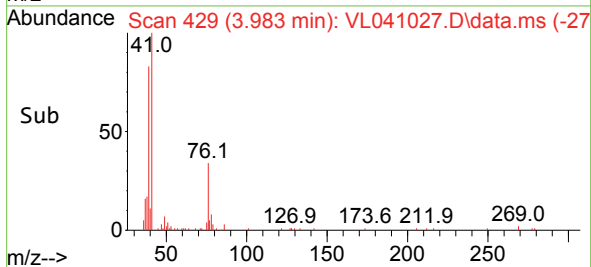
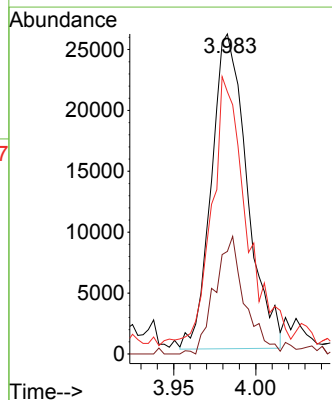
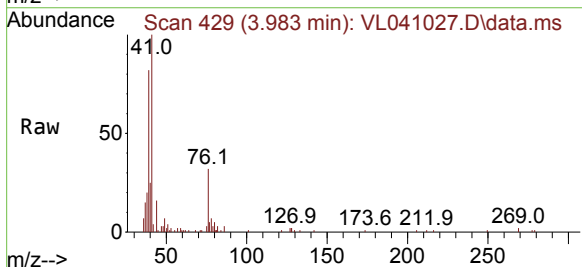
Instrument :
MSVOA_L
ClientSampleId :

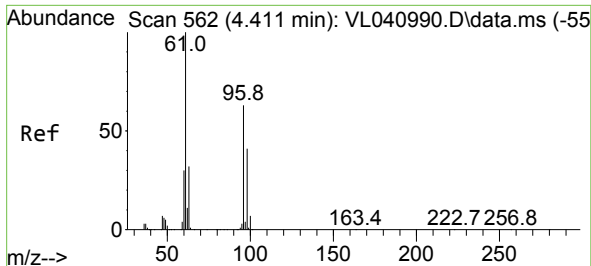
Tgt Ion:	84	Resp:	38147
Ion	Ratio	Lower	Upper
84	100		
49	148.8	128.1	192.1
51	40.5	36.5	54.7
86	71.5	54.1	81.1



#21
Allyl Chloride
Concen: 0.462 ppbv
RT: 3.983 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion:	41	Resp:	39152
Ion	Ratio	Lower	Upper
41	100		
76	33.9	25.0	37.4
39	94.0	67.0	100.6

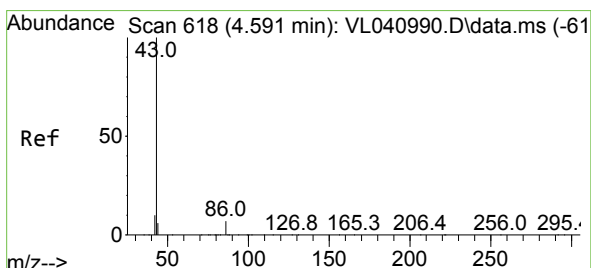
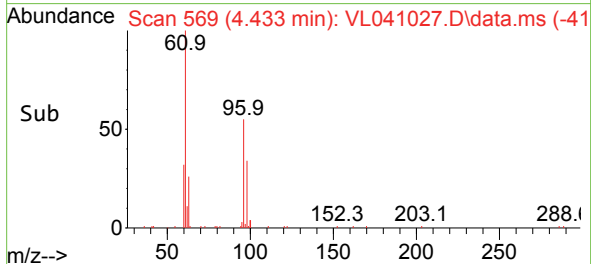
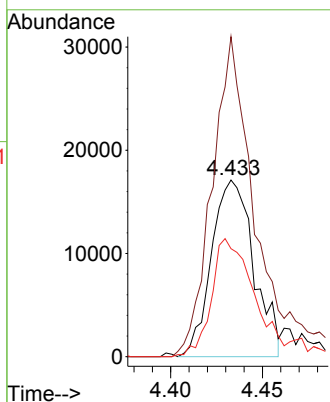
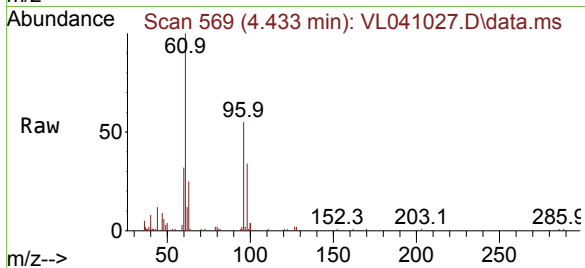




#22
trans-1,2-Dichloroethene
Concen: 0.442 ppbv
RT: 4.433 min Scan# 50
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

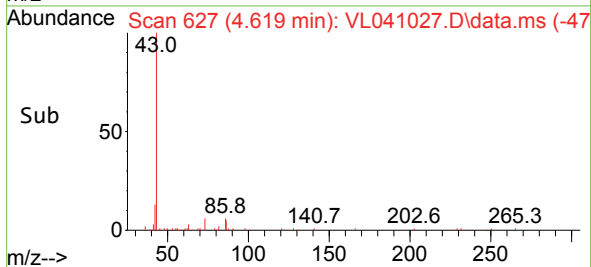
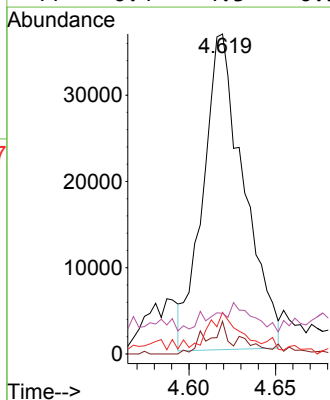
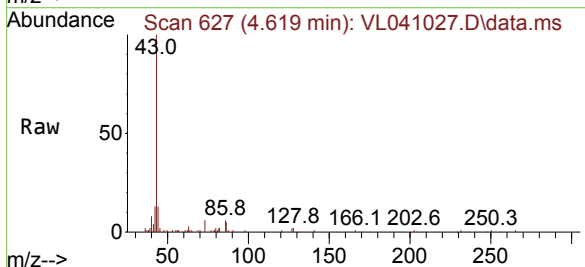
Instrument :
MSVOA_L
ClientSampleId :

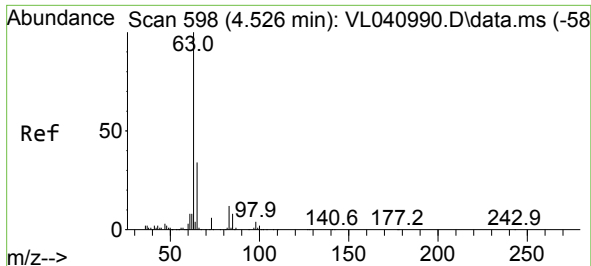
Tgt Ion: 96 Resp: 27432
Ion Ratio Lower Upper
96 100
61 178.2 126.0 189.0
98 60.0 51.2 76.8



#23
Vinyl Acetate
Concen: 0.418 ppbv
RT: 4.619 min Scan# 627
Delta R.T. 0.006 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 43 Resp: 60040
Ion Ratio Lower Upper
43 100
86 11.4 5.4 8.0#
42 12.8 8.6 13.0
44 6.4 4.3 6.5

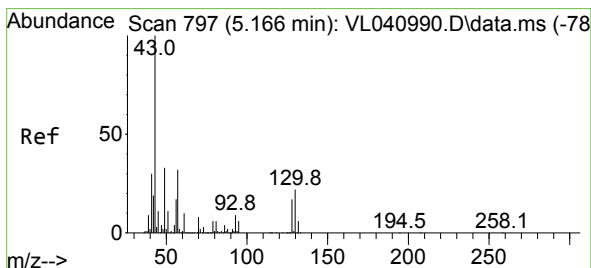
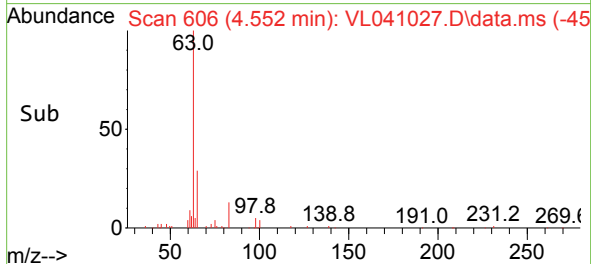
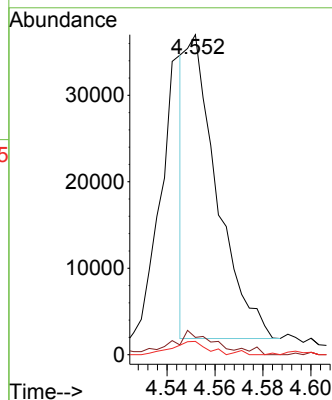
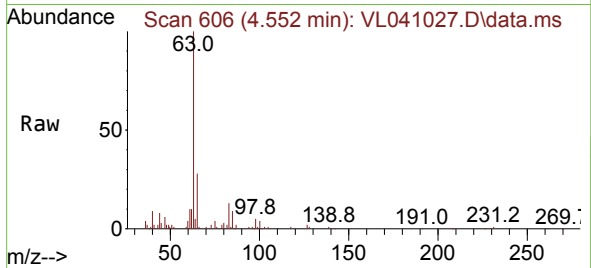




#24
1,1-Dichloroethane
Concen: 0.254 ppbv
RT: 4.552 min Scan# 606
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

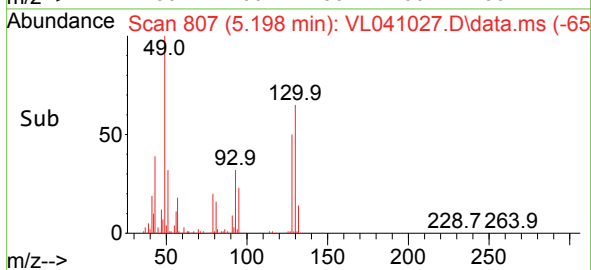
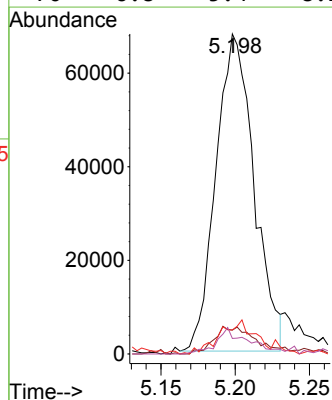
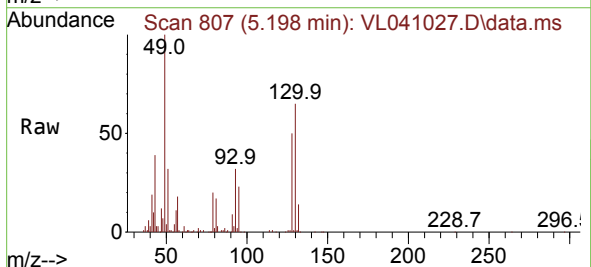
Instrument :
MSVOA_L
ClientSampleId :

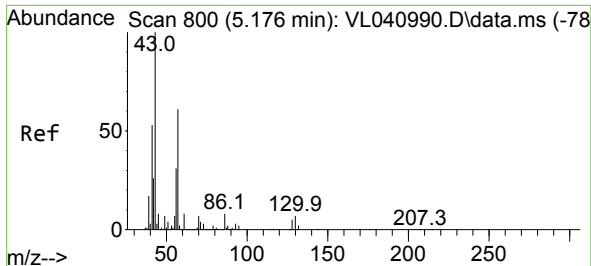
Tgt Ion: 63 Resp: 32341
Ion Ratio Lower Upper
63 100
98 5.8 2.1 6.3
100 3.9 1.3 3.9



#25
Ethyl Acetate
Concen: 0.478 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.006 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

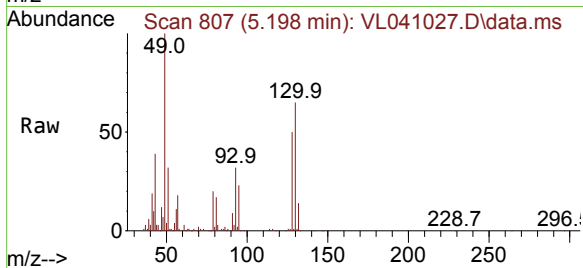
Tgt Ion: 43 Resp: 120843
Ion Ratio Lower Upper
43 100
45 10.6 8.2 12.4
61 11.9 7.9 11.9
70 6.8 5.4 8.2



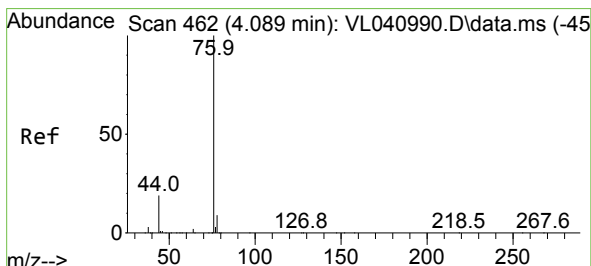
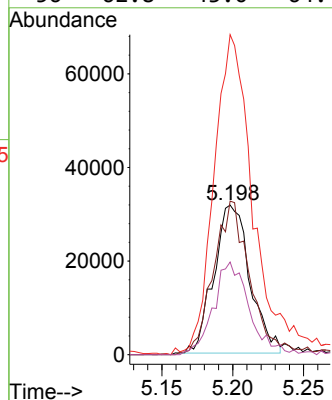
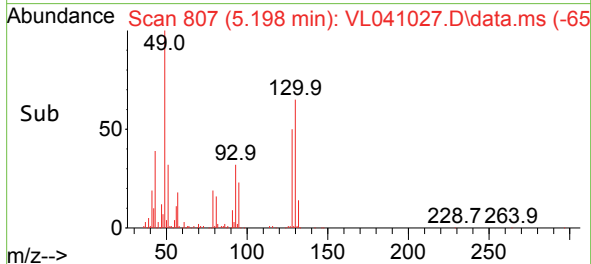


#26
Hexane
Concen: 0.518 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

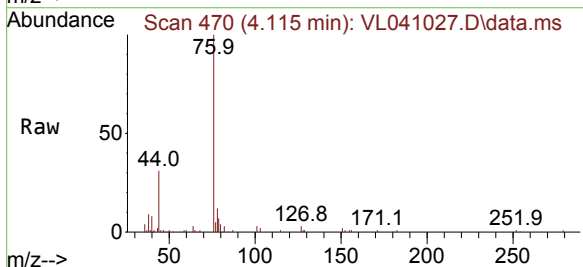
Instrument :
MSVOA_L
ClientSampleId :



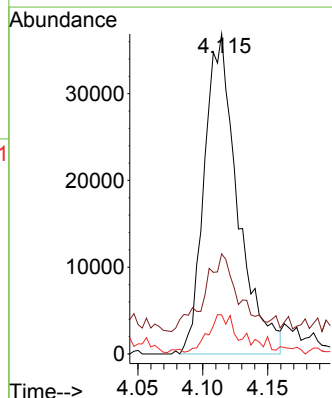
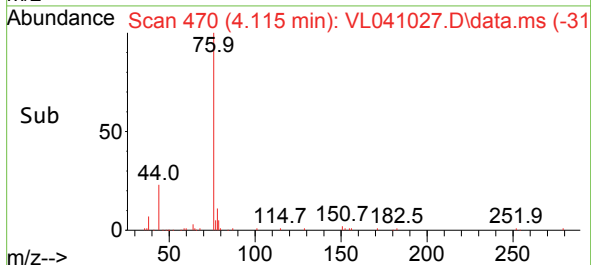
Tgt Ion:	57	Resp:	55876
Ion	Ratio	Lower	Upper
57	100		
41	106.5	74.4	111.6
43	241.9	190.6	285.8
56	62.8	43.0	64.4

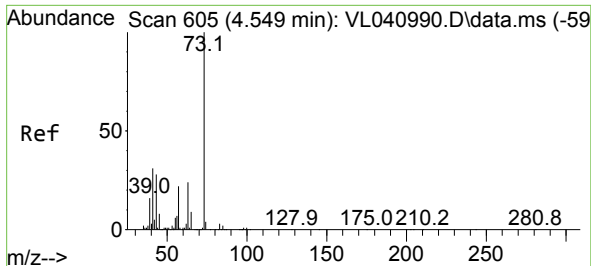


#27
Carbon Disulfide
Concen: 0.468 ppbv
RT: 4.115 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23



Tgt Ion:	76	Resp:	65615
Ion	Ratio	Lower	Upper
76	100		
44	26.7	16.0	24.0#
78	14.6	7.8	11.8#





#28

Methyl tert-Butyl Ether

Concen: 0.450 ppbv

RT: 4.584 min Scan# 61

Delta R.T. 0.013 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

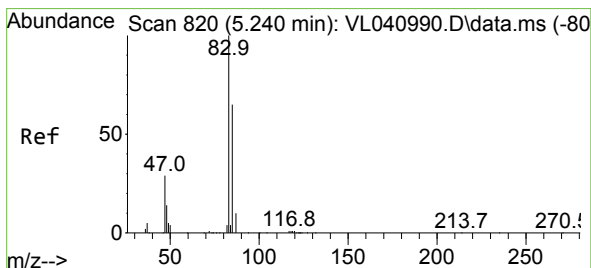
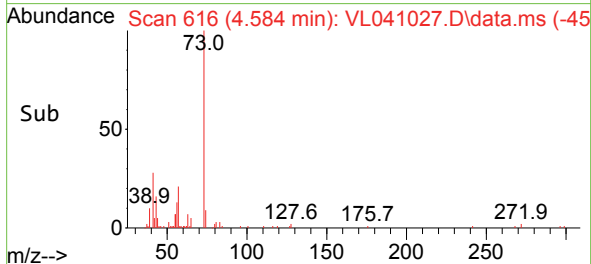
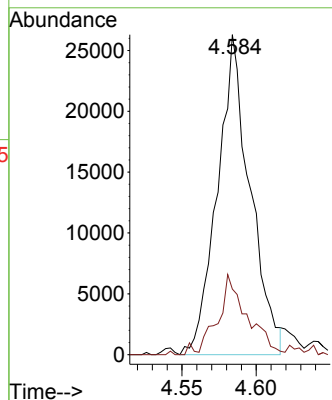
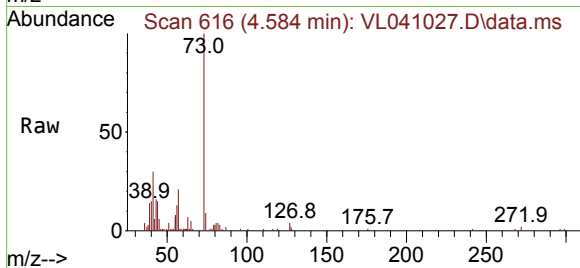
ClientSampleId :

Tgt Ion: 73 Resp: 40263

Ion Ratio Lower Upper

73 100

57 23.0 18.0 27.0



#29

Chloroform

Concen: 0.489 ppbv

RT: 5.259 min Scan# 826

Delta R.T. -0.000 min

Lab File: VL041027.D

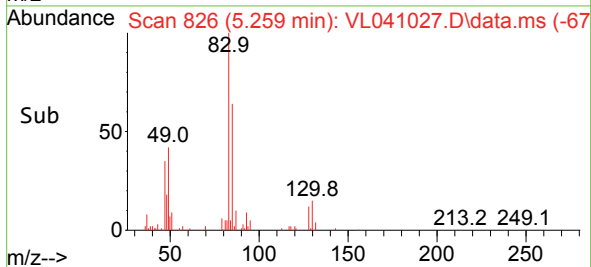
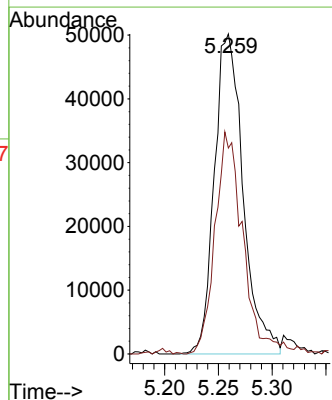
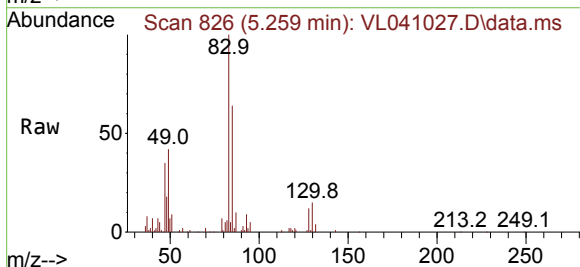
Acq: 25 Jan 2024 13:23

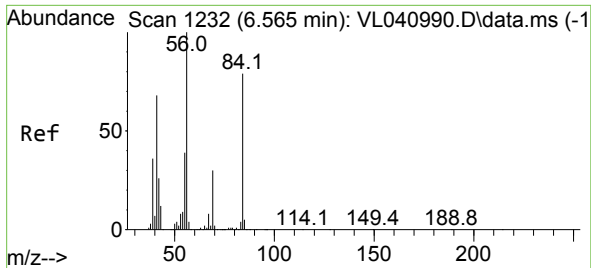
Tgt Ion: 83 Resp: 93393

Ion Ratio Lower Upper

83 100

85 64.3 51.6 77.4

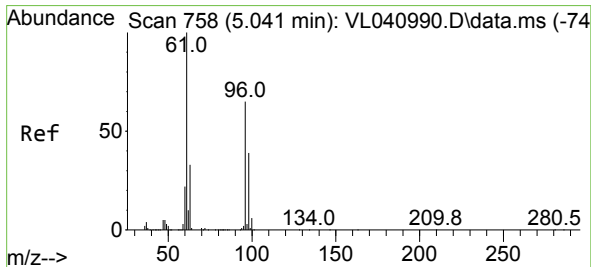
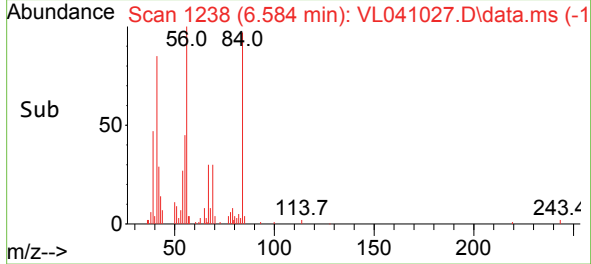
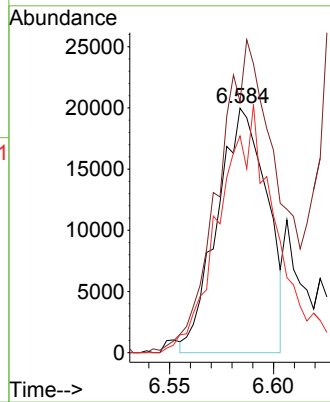
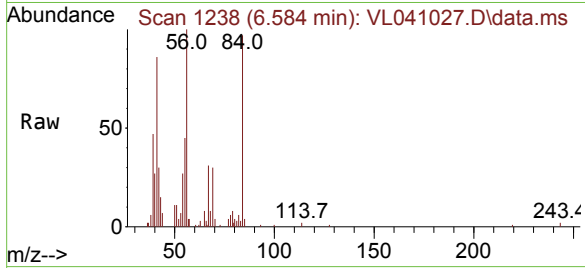




#30
Cyclohexane
Concen: 0.368 ppbv
RT: 6.584 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

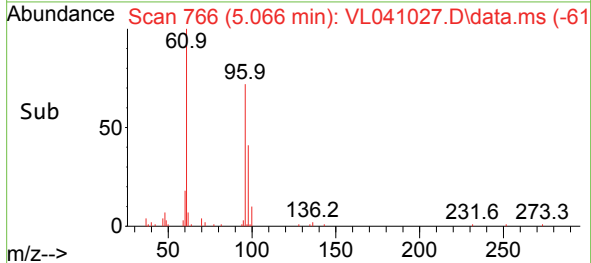
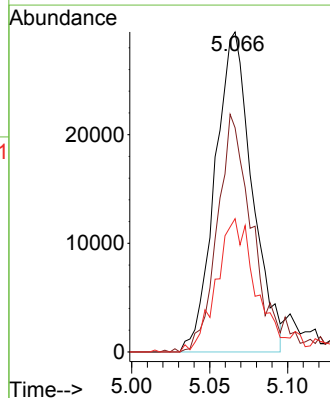
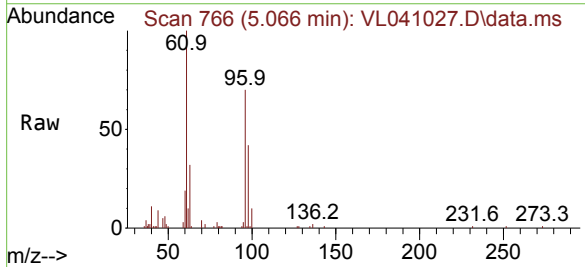
Instrument :
MSVOA_L
ClientSampleId :

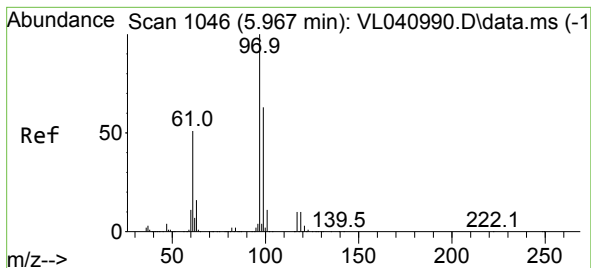
Tgt Ion: 84 Resp: 33228
Ion Ratio Lower Upper
84 100
56 151.2 111.7 167.5
41 120.8 71.0 106.6#



#31
cis-1,2-Dichloroethene
Concen: 0.483 ppbv
RT: 5.066 min Scan# 766
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 61 Resp: 48905
Ion Ratio Lower Upper
61 100
96 70.1 51.9 77.9
98 41.6 31.5 47.3





#32

1,1,1-Trichloroethane

Concen: 0.497 ppbv

RT: 5.983 min Scan# 1046

Delta R.T. -0.010 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

ClientSampleId :

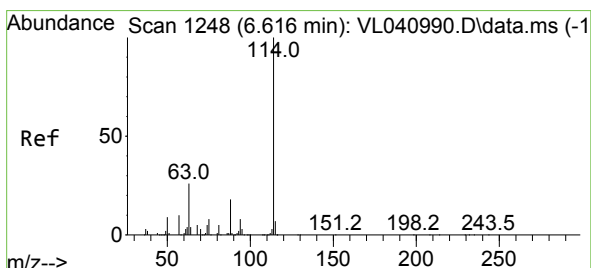
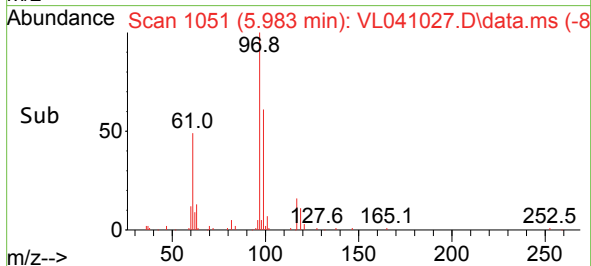
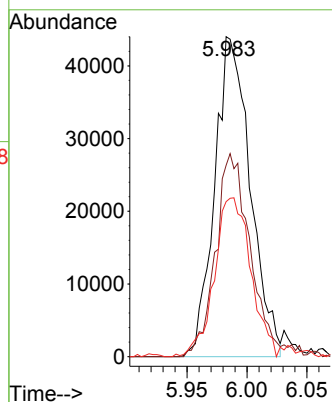
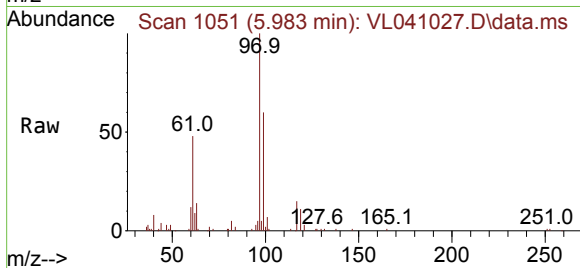
Tgt Ion: 97 Resp: 90887

Ion Ratio Lower Upper

97 100

99 63.1 51.5 77.3

61 52.9 40.3 60.5



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.003 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

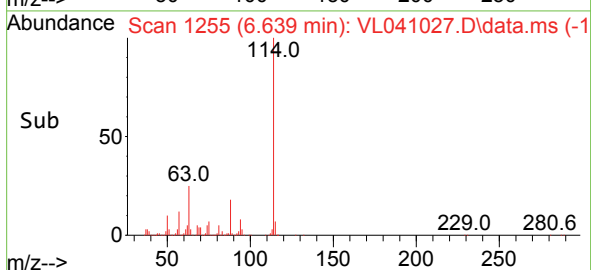
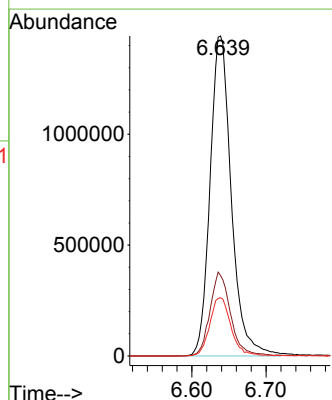
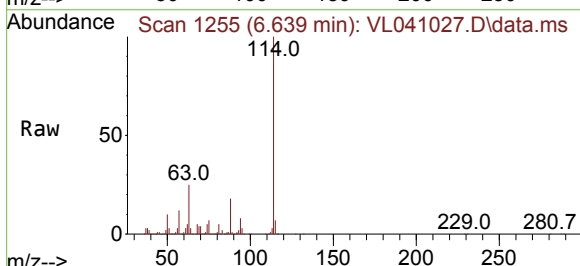
Tgt Ion: 114 Resp: 2869415

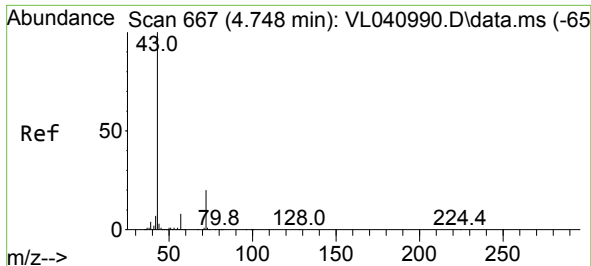
Ion Ratio Lower Upper

114 100

63 25.5 20.8 31.2

88 18.4 14.3 21.5

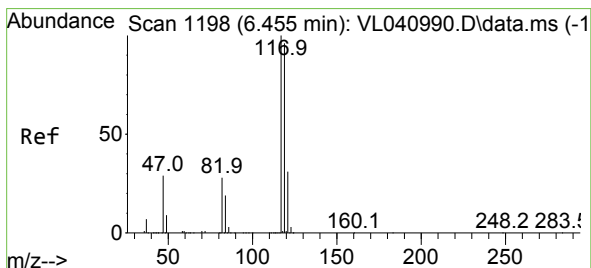
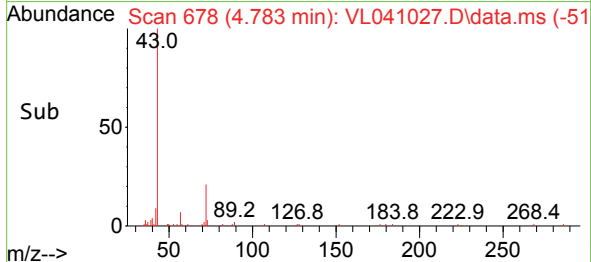
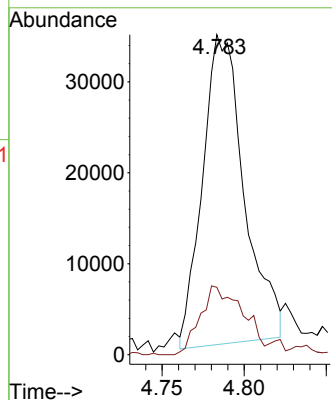
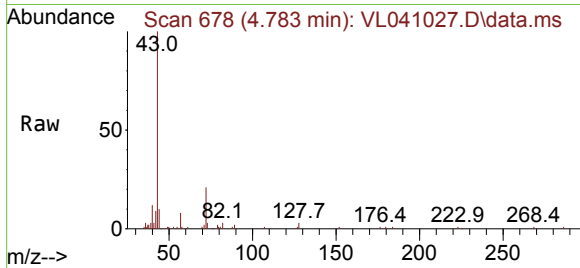




#34
2-Butanone
Concen: 0.440 ppbv
RT: 4.783 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

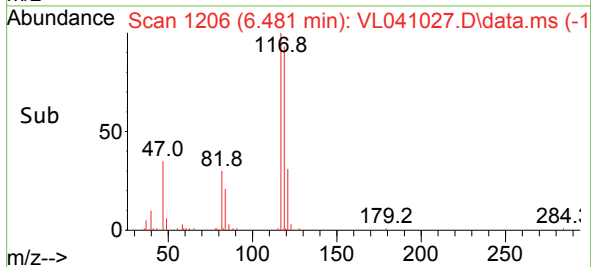
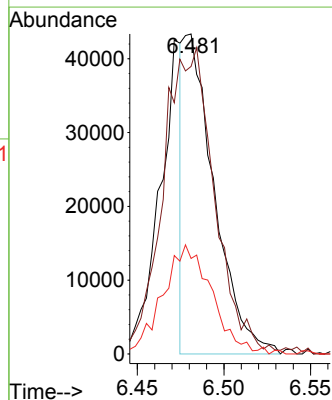
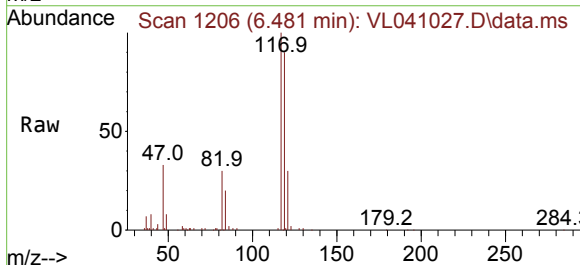
Instrument :
MSVOA_L
ClientSampleId :

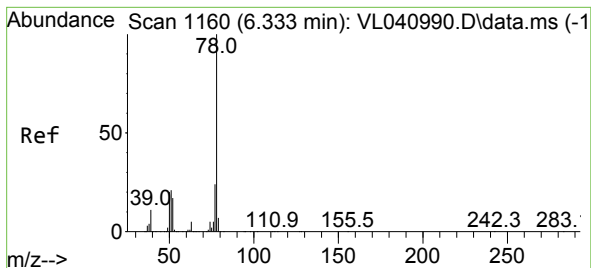
Tgt Ion: 43 Resp: 60107
Ion Ratio Lower Upper
43 100
72 26.9 17.5 26.3#



#35
Carbon Tetrachloride
Concen: 0.279 ppbv
RT: 6.481 min Scan# 1206
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 117 Resp: 53332
Ion Ratio Lower Upper
117 100
119 89.6 76.9 115.3
121 28.8 24.7 37.1





#36

Benzene

Concen: 0.461 ppbv

RT: 6.359 min Scan# 1168

Delta R.T. 0.003 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

ClientSampleId :

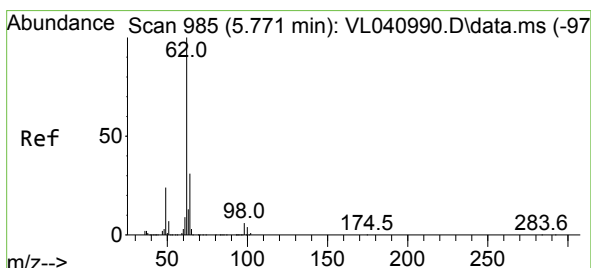
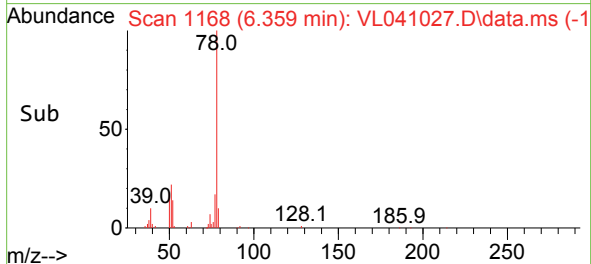
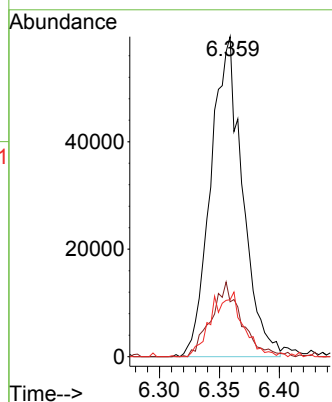
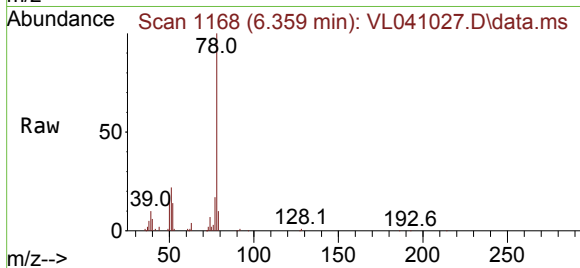
Tgt Ion: 78 Resp: 109293

Ion Ratio Lower Upper

78 100

77 17.2 19.0 28.4#

50 17.8 15.8 23.6



#37

1,2-Dichloroethane

Concen: 0.478 ppbv

RT: 5.793 min Scan# 992

Delta R.T. -0.000 min

Lab File: VL041027.D

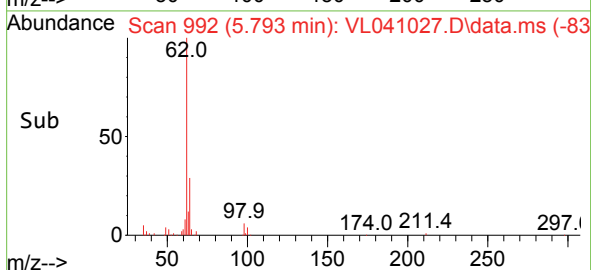
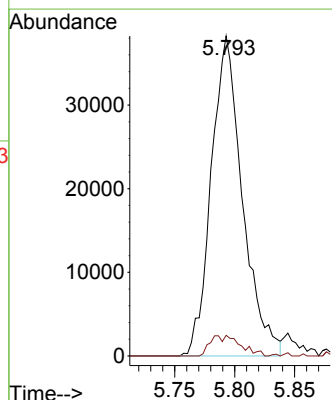
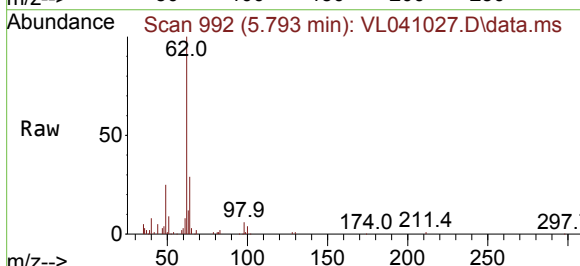
Acq: 25 Jan 2024 13:23

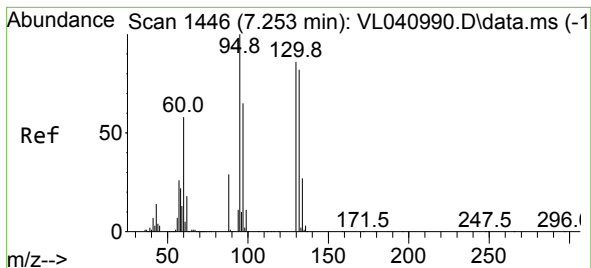
Tgt Ion: 62 Resp: 69065

Ion Ratio Lower Upper

62 100

98 6.6 4.7 7.1





#38

Trichloroethene

Concen: 0.235 ppbv

RT: 7.272 min Scan# 1446

Delta R.T. -0.007 min

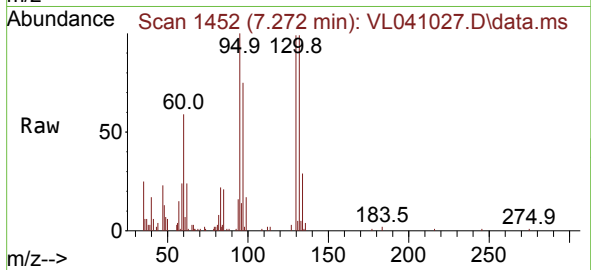
Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:130 Resp: 22331

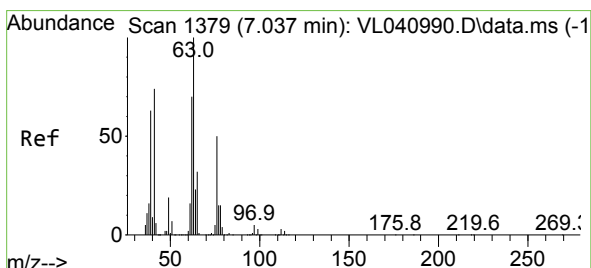
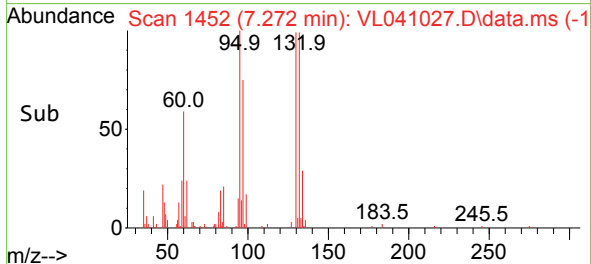
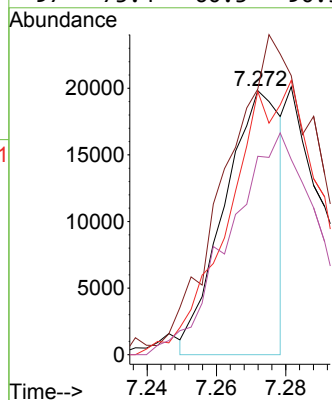
Ion Ratio Lower Upper

130 100

95 92.0 92.9 139.3#

132 99.4 76.2 114.2

97 73.4 60.3 90.5



#39

1,2-Dichloropropane

Concen: 0.426 ppbv

RT: 7.057 min Scan# 1385

Delta R.T. -0.007 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

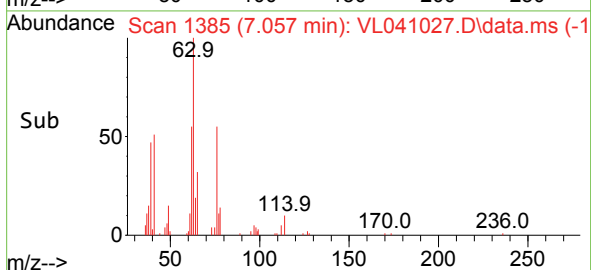
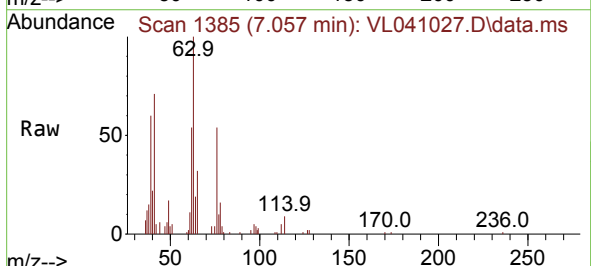
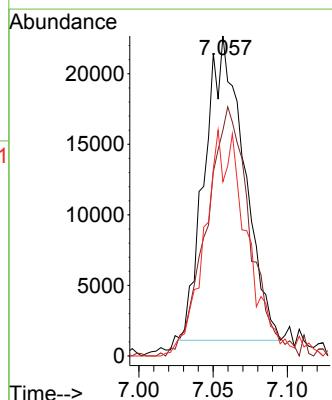
Tgt Ion: 63 Resp: 39741

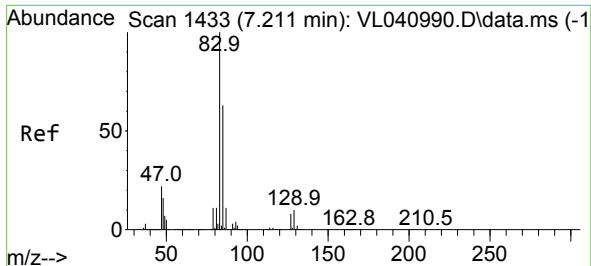
Ion Ratio Lower Upper

63 100

41 68.1 59.6 89.4

62 50.9 55.6 83.4#

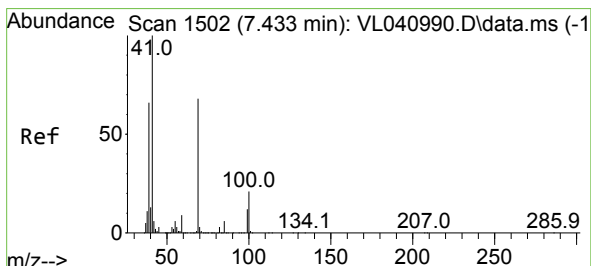
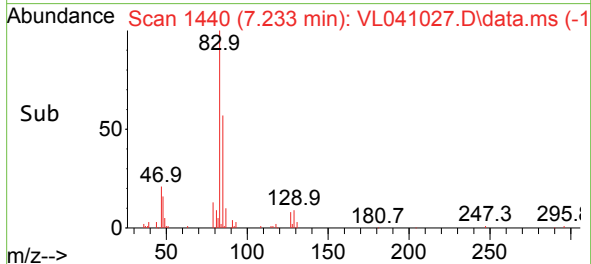
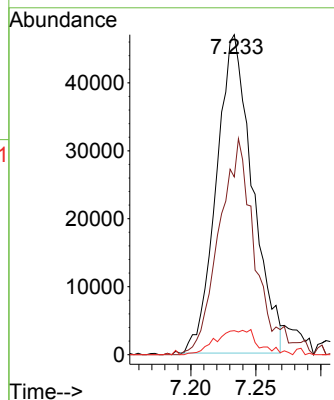
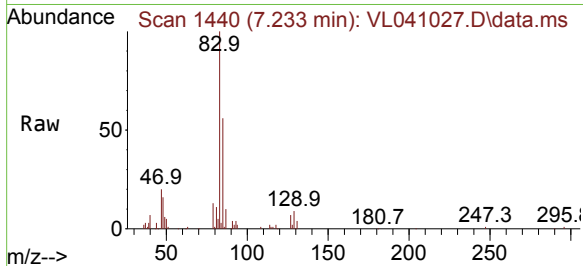




#42
 Bromodichloromethane
 Concen: 0.438 ppbv
 RT: 7.233 min Scan# 1433
 Delta R.T. -0.003 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

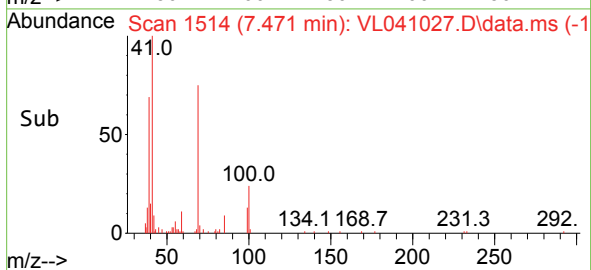
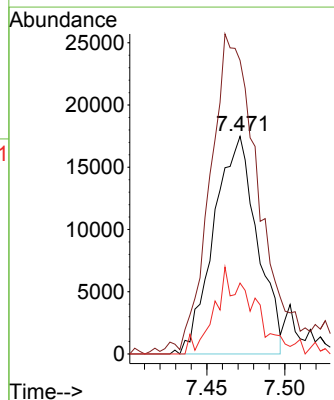
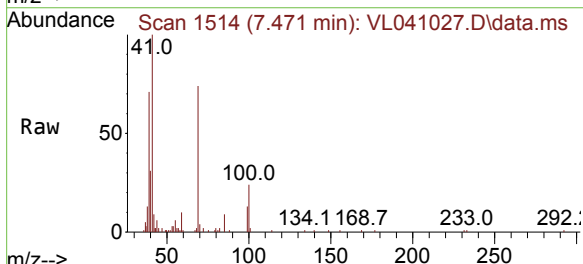
Instrument :
 MSVOA_L
 ClientSampleId :

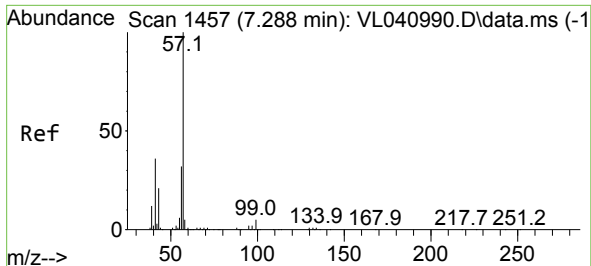
Tgt Ion: 83 Resp: 90557
 Ion Ratio Lower Upper
 83 100
 85 55.8 50.5 75.7
 127 7.5 6.4 9.6



#43
 Methyl Methacrylate
 Concen: 0.369 ppbv
 RT: 7.471 min Scan# 1514
 Delta R.T. 0.009 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

Tgt Ion: 69 Resp: 33754
 Ion Ratio Lower Upper
 69 100
 41 166.2 120.2 180.2
 100 38.0 24.6 36.8

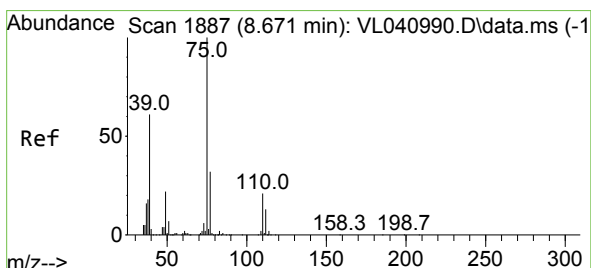
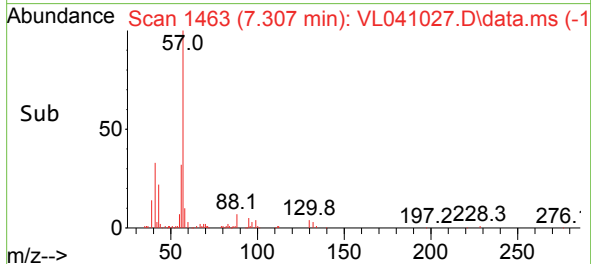
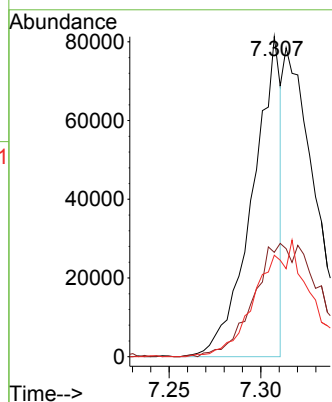
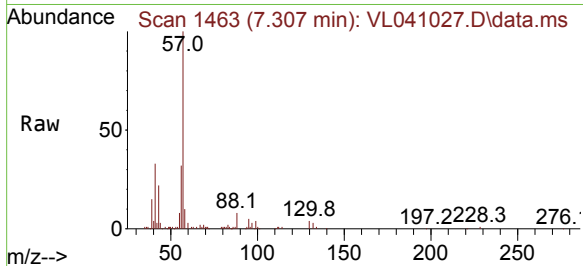




#44
2,2,4-Trimethylpentane
Concen: 0.221 ppbv
RT: 7.307 min Scan# 1457
Delta R.T. -0.007 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

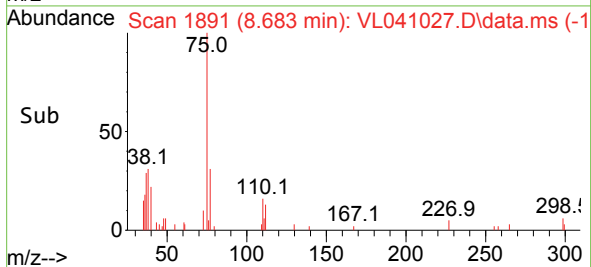
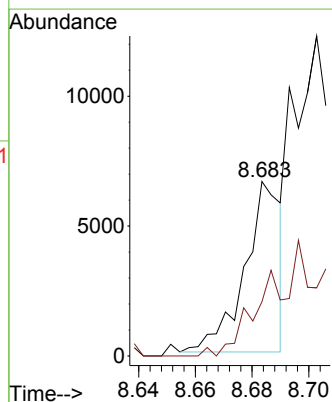
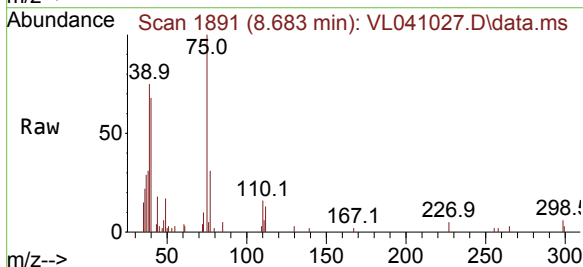
Instrument :
MSVOA_L
ClientSampleId :

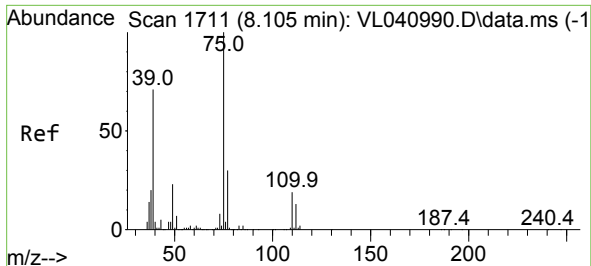
Tgt Ion: 57 Resp: 87941
Ion Ratio Lower Upper
57 100
41 0.0 28.6 43.0#
56 0.0 25.2 37.8#



#45
t-1,3-Dichloropropene
Concen: 0.093 ppbv
RT: 8.683 min Scan# 1891
Delta R.T. -0.013 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

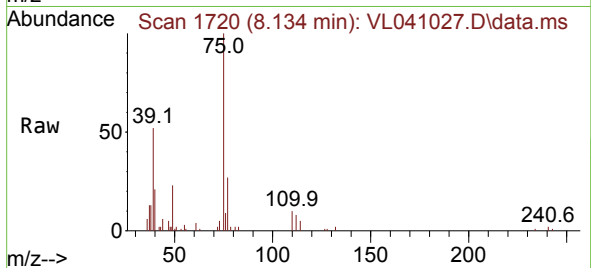
Tgt Ion: 75 Resp: 5782
Ion Ratio Lower Upper
75 100
77 31.1 25.3 37.9



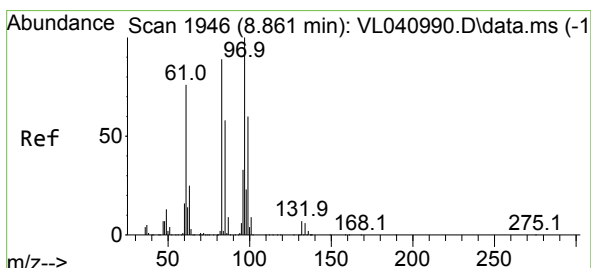
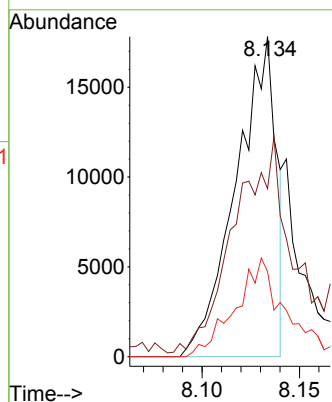
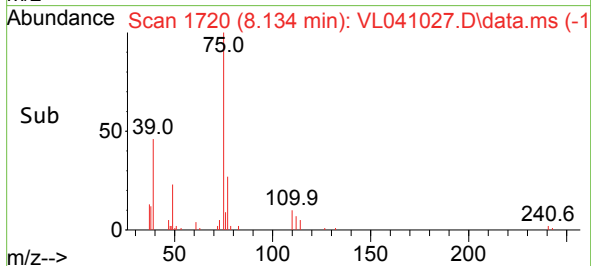


#46
 cis-1,3-Dichloropropene
 Concen: 0.329 ppbv
 RT: 8.134 min Scan# 1720
 Delta R.T. 0.003 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

Instrument :
 MSVOA_L
 ClientSampleId :

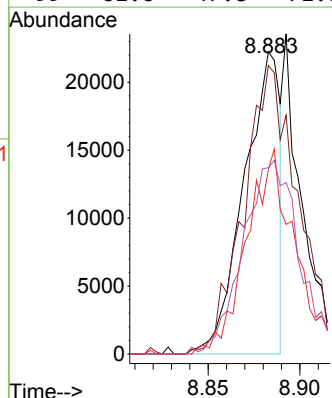
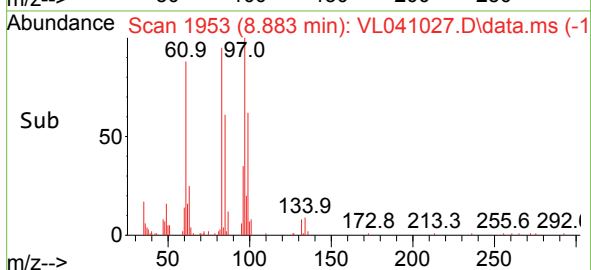
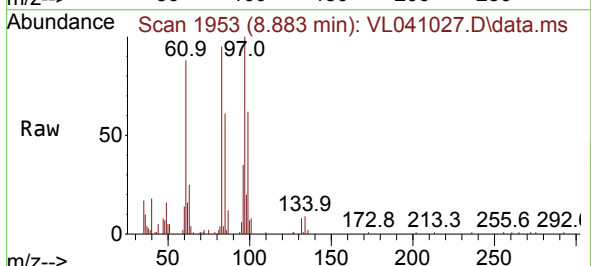


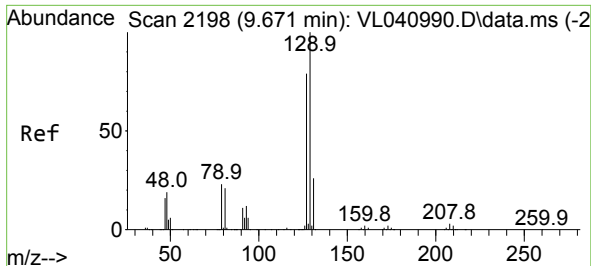
Tgt Ion: 75 Resp: 25645
 Ion Ratio Lower Upper
 75 100
 39 48.4 57.3 85.9#
 77 26.5 24.3 36.5



#47
 1,1,2-Trichloroethane
 Concen: 0.301 ppbv
 RT: 8.883 min Scan# 1953
 Delta R.T. -0.007 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

Tgt Ion: 97 Resp: 30245
 Ion Ratio Lower Upper
 97 100
 83 95.4 71.5 107.3
 85 63.4 46.1 69.1
 99 61.6 47.8 71.8

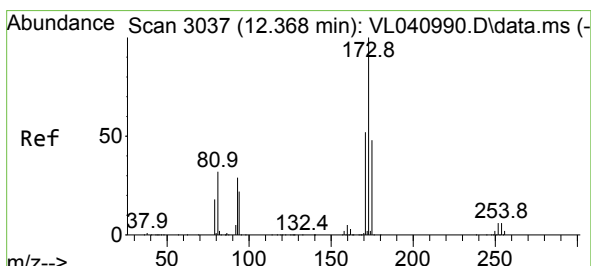
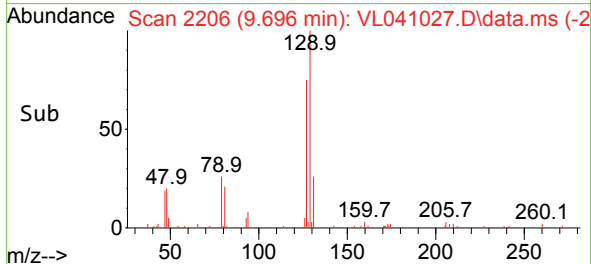
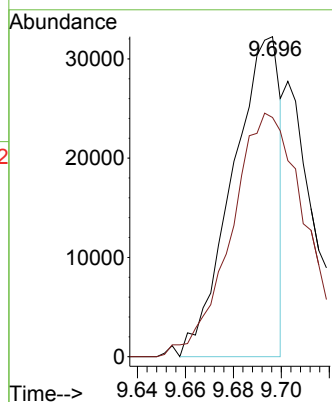
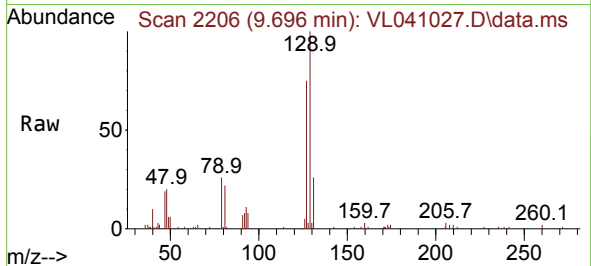




#48
Dibromochloromethane
Concen: 0.261 ppbv
RT: 9.696 min Scan# 2198
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

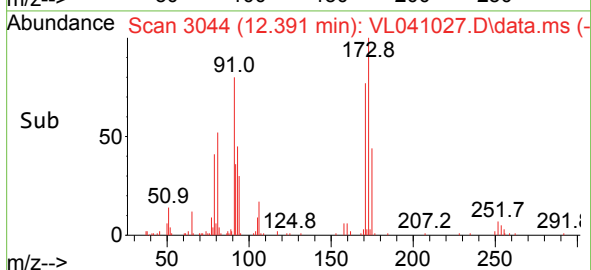
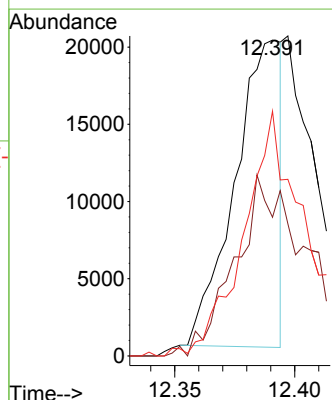
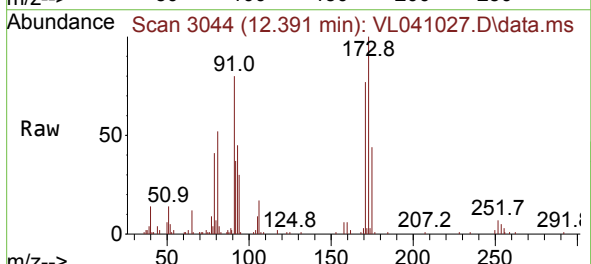
Instrument :
MSVOA_L
ClientSampleId :

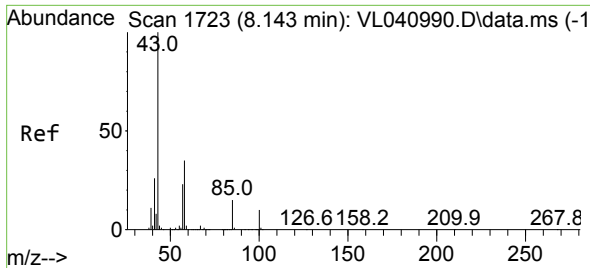
Tgt Ion:129 Resp: 44405
Ion Ratio Lower Upper
129 100
127 126.7 39.6 119.0#



#49
Bromoform
Concen: 0.201 ppbv
RT: 12.391 min Scan# 3044
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion:173 Resp: 26843
Ion Ratio Lower Upper
173 100
175 98.2 39.0 58.4#
171 113.1 42.0 63.0#

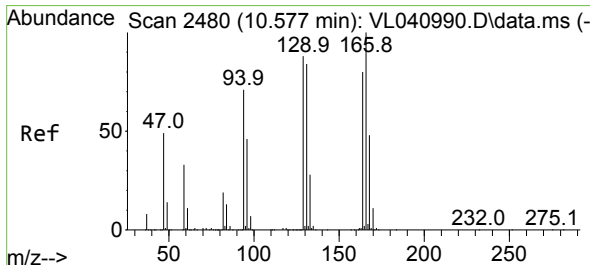
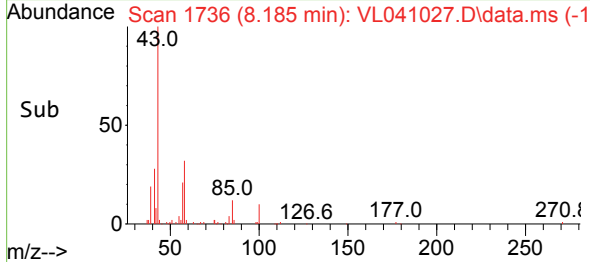
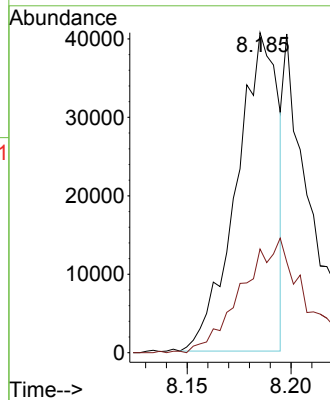
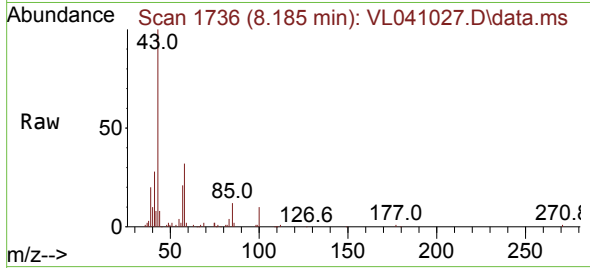




#50
 4-Methyl-2-Pentanone
 Concen: 0.235 ppbv
 RT: 8.185 min Scan# 1736
 Delta R.T. 0.016 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

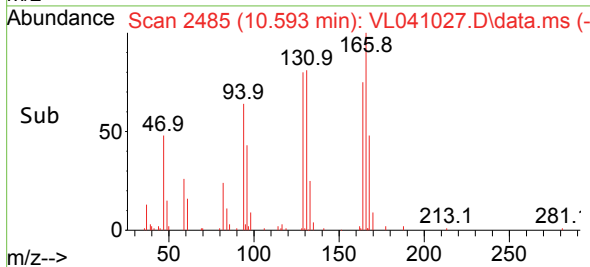
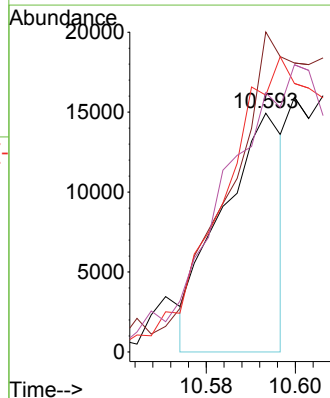
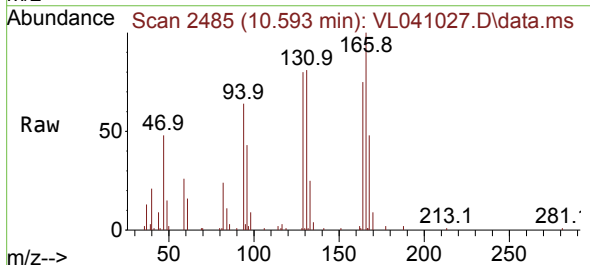
Instrument :
 MSVOA_L
 ClientSampleId :

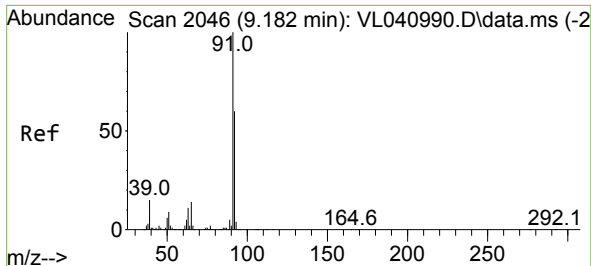
Tgt Ion: 43 Resp: 56627
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.8 41.8#



#52
 Tetrachloroethene
 Concen: 0.181 ppbv
 RT: 10.593 min Scan# 2485
 Delta R.T. -0.010 min
 Lab File: VL041027.D
 Acq: 25 Jan 2024 13:23

Tgt Ion: 164 Resp: 14207
 Ion Ratio Lower Upper
 164 100
 166 145.2 100.2 150.2
 129 110.8 87.9 131.9
 131 105.0 84.0 126.0

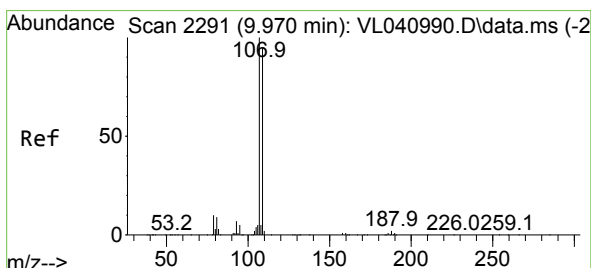
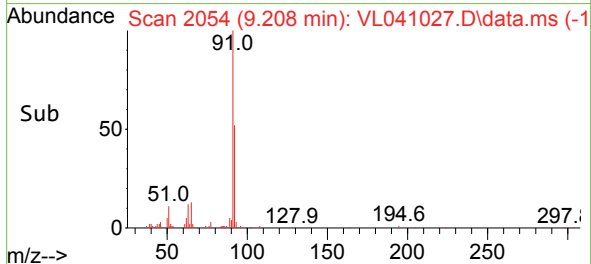
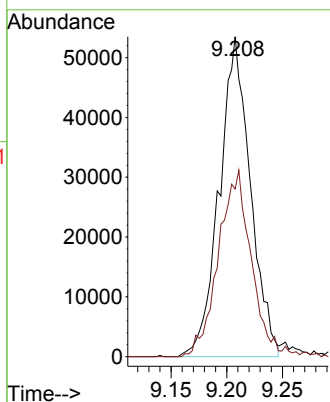
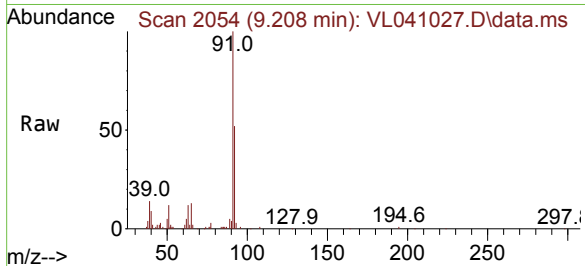




#53
Toluene
Concen: 0.399 ppbv
RT: 9.208 min Scan# 2046
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

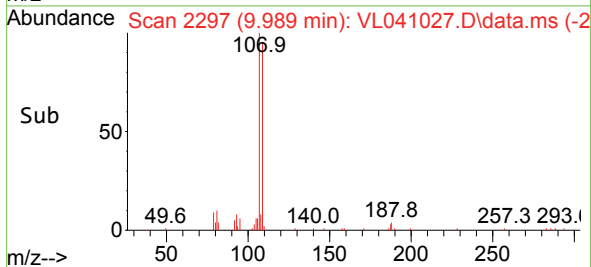
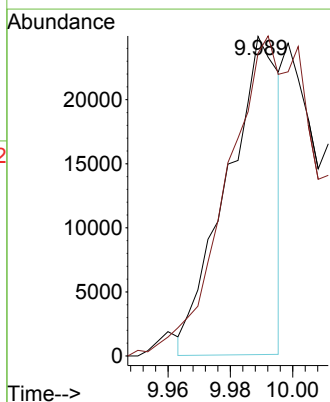
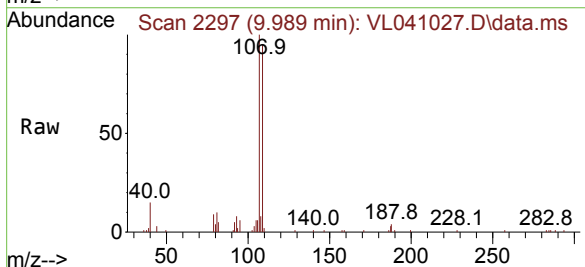
Instrument :
MSVOA_L
ClientSampleId :

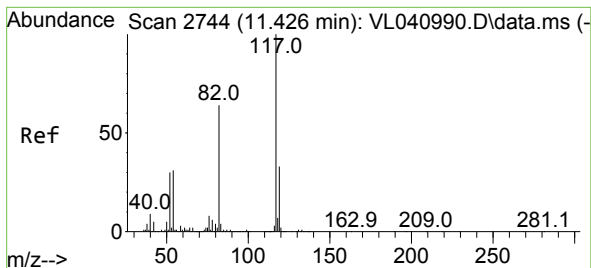
Tgt Ion: 91 Resp: 103682
Ion Ratio Lower Upper
91 100
92 62.3 48.6 72.8



#54
1,2-Dibromoethane
Concen: 0.209 ppbv
RT: 9.989 min Scan# 2297
Delta R.T. -0.007 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 107 Resp: 28472
Ion Ratio Lower Upper
107 100
109 93.4 76.1 114.1

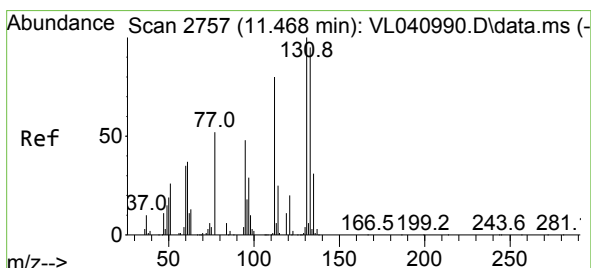
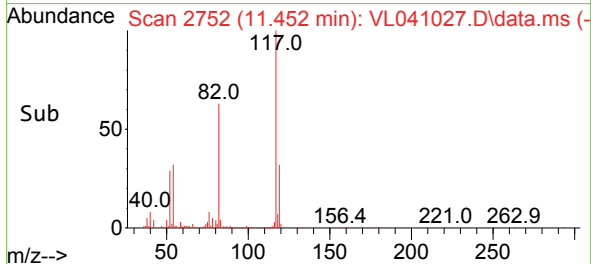
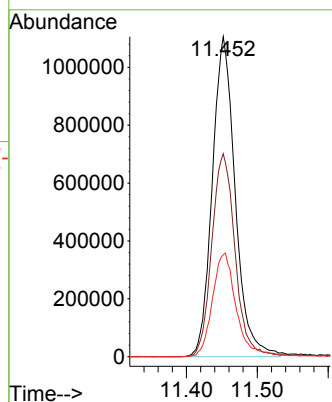
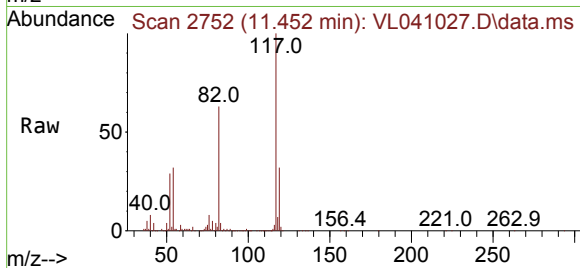




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

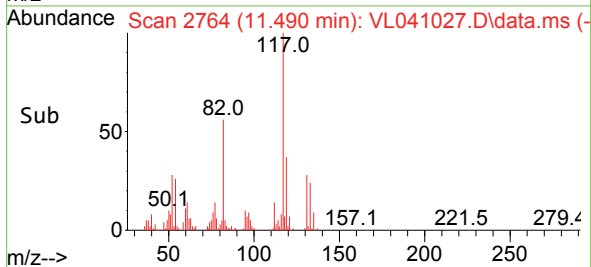
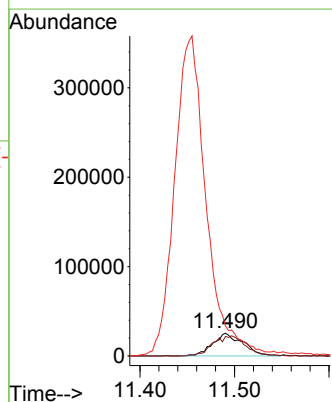
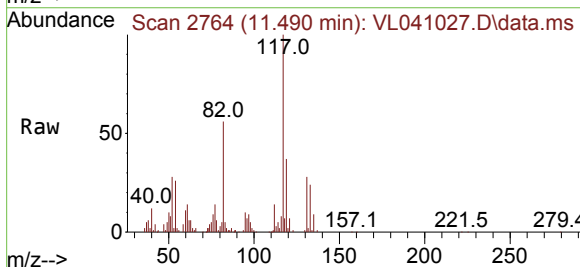
Instrument :
MSVOA_L
ClientSampleId :

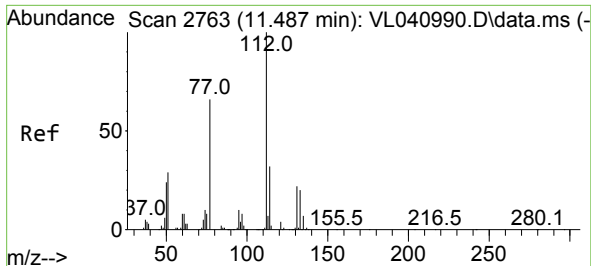
Tgt Ion:117 Resp: 2484337
Ion Ratio Lower Upper
117 100
82 65.0 51.7 77.5
119 33.9 23.8 35.6



#56
1,1,1,2-Tetrachloroethane
Concen: 0.473 ppbv
RT: 11.490 min Scan# 2764
Delta R.T. -0.003 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

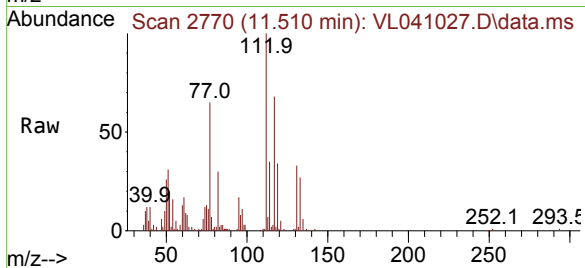
Tgt Ion:131 Resp: 56401
Ion Ratio Lower Upper
131 100
133 96.9 75.9 113.9
119 1491.4 49.2 73.8#



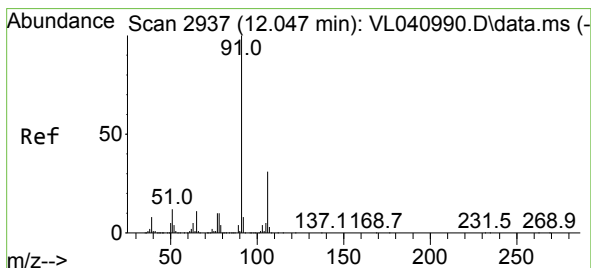
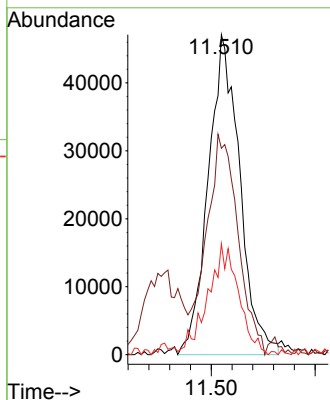
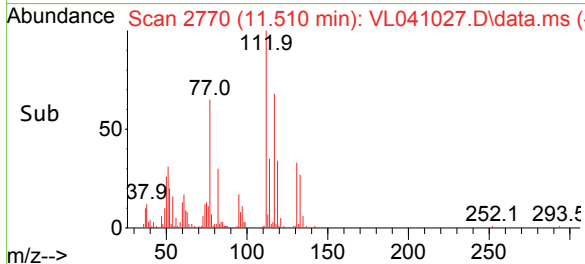


#57
Chlorobenzene
Concen: 0.495 ppbv
RT: 11.510 min Scan# 211
Delta R.T. -0.003 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Instrument :
MSVOA_L
ClientSampleId :

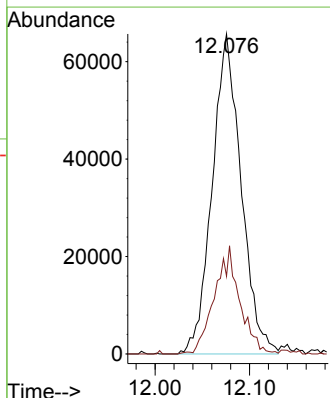
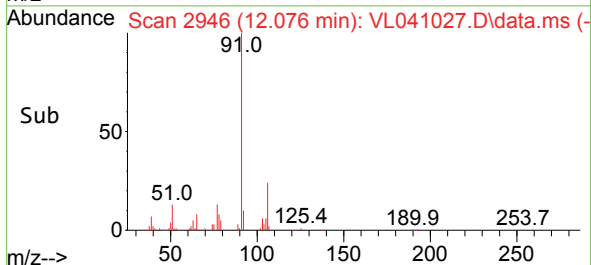
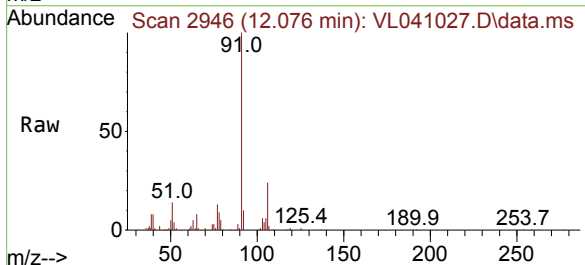


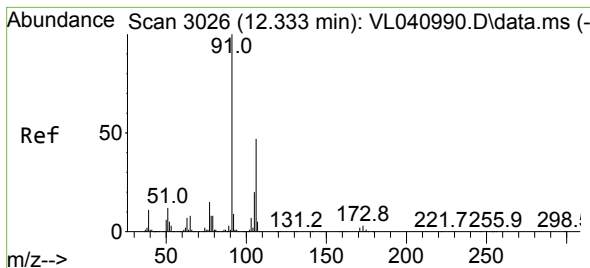
Tgt Ion:112 Resp: 99006
Ion Ratio Lower Upper
112 100
77 62.1 53.4 80.0
114 34.7 29.1 35.5



#58
Ethyl Benzene
Concen: 0.419 ppbv
RT: 12.076 min Scan# 2946
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 91 Resp: 139630
Ion Ratio Lower Upper
91 100
106 26.1 24.8 37.2





#59

m/p-Xylene

Concen: 0.356 ppbv

RT: 12.362 min Scan# 3026

Delta R.T. 0.003 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

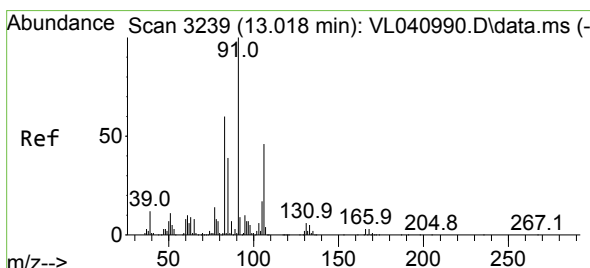
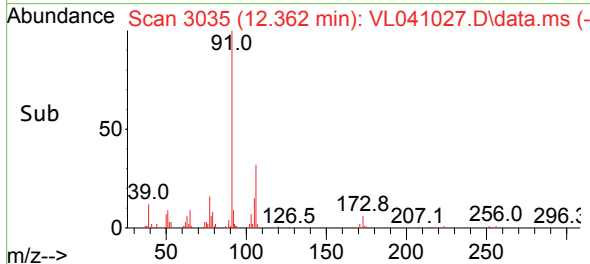
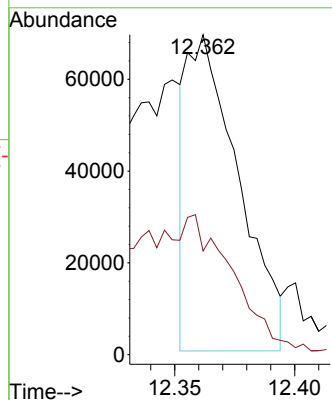
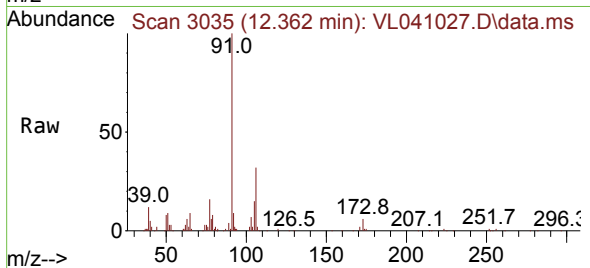
ClientSampleId :

Tgt Ion: 91 Resp: 103507

Ion Ratio Lower Upper

91 100

106 102.0 34.9 52.3#



#60

o-Xylene

Concen: 0.426 ppbv

RT: 13.043 min Scan# 3247

Delta R.T. -0.000 min

Lab File: VL041027.D

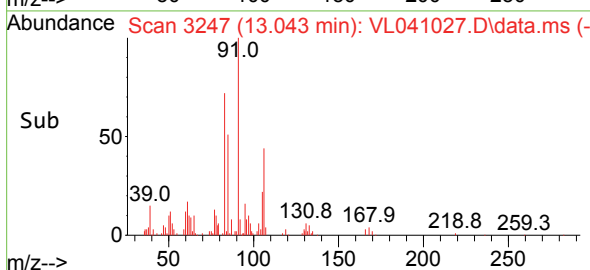
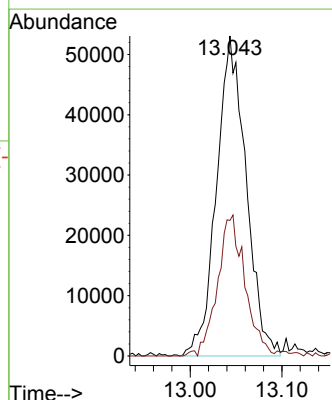
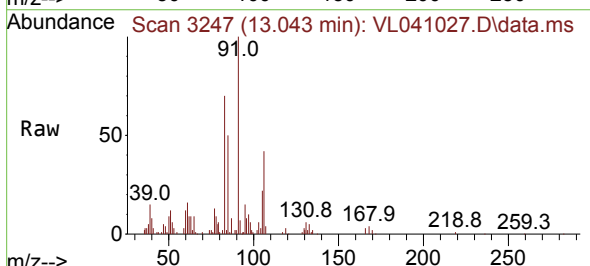
Acq: 25 Jan 2024 13:23

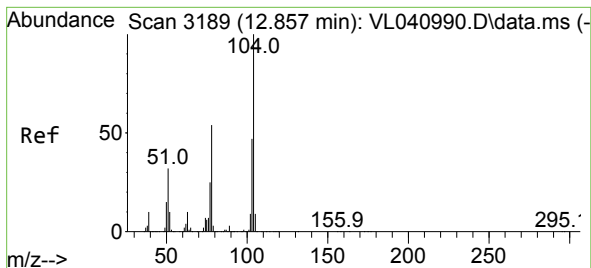
Tgt Ion: 91 Resp: 118784

Ion Ratio Lower Upper

91 100

106 42.4 22.6 67.7





#61

Styrene

Concen: 0.338 ppbv

RT: 12.889 min Scan# 3189

Delta R.T. 0.006 min

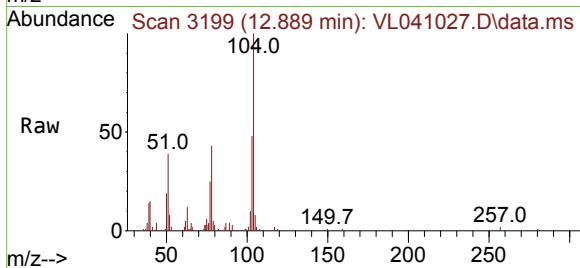
Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

ClientSampleId :



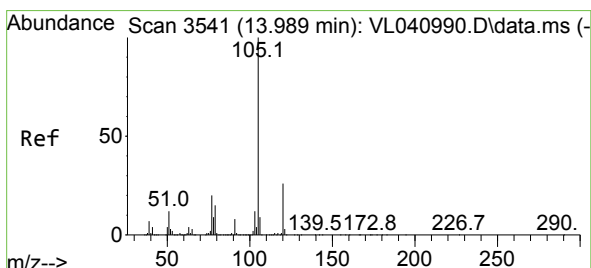
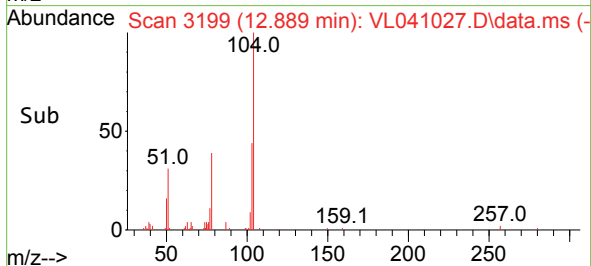
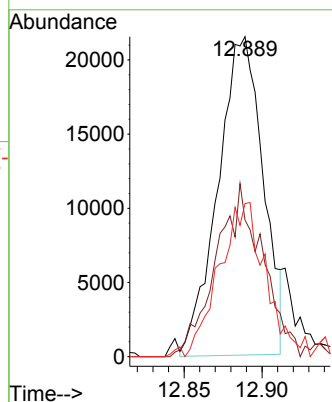
Tgt Ion:104 Resp: 43261

Ion Ratio Lower Upper

104 100

78 57.4 42.7 64.1

103 51.8 37.6 56.4



#62

Isopropylbenzene

Concen: 0.450 ppbv

RT: 14.018 min Scan# 3550

Delta R.T. 0.003 min

Lab File: VL041027.D

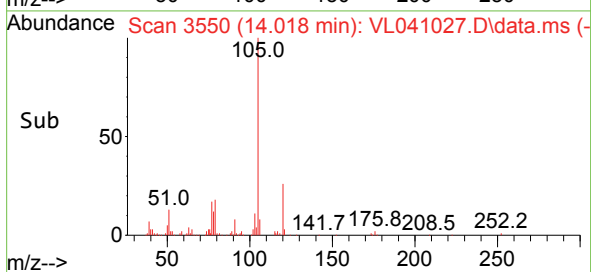
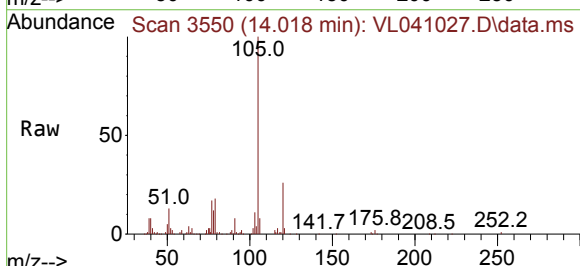
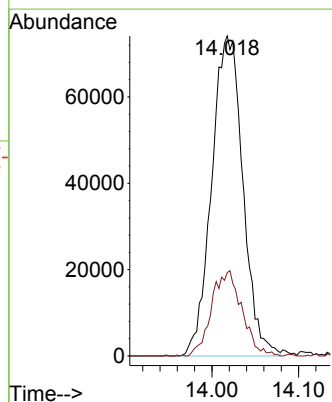
Acq: 25 Jan 2024 13:23

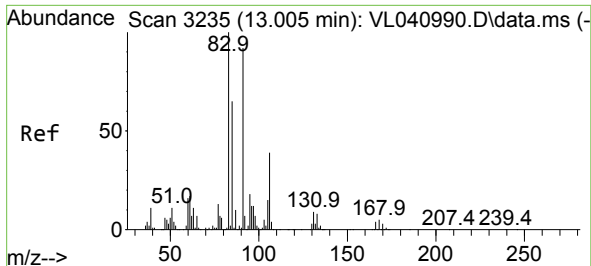
Tgt Ion:105 Resp: 185704

Ion Ratio Lower Upper

105 100

120 26.0 20.9 31.3

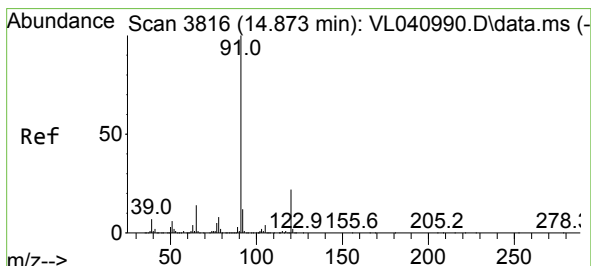
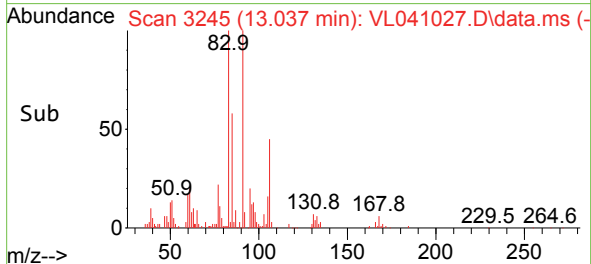
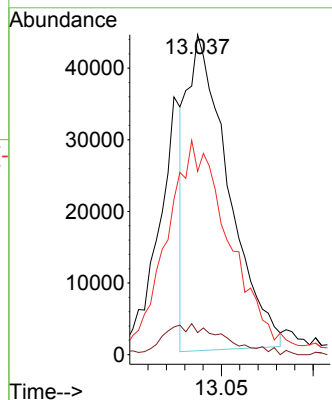
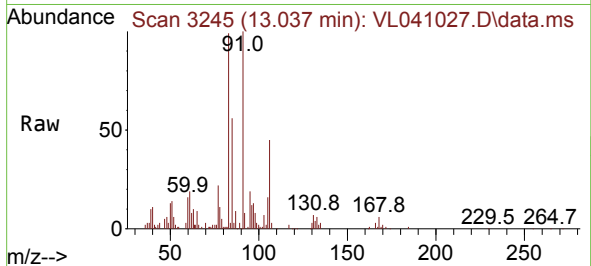




#63
1,1,2,2-Tetrachloroethane
Concen: 0.322 ppbv
RT: 13.037 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

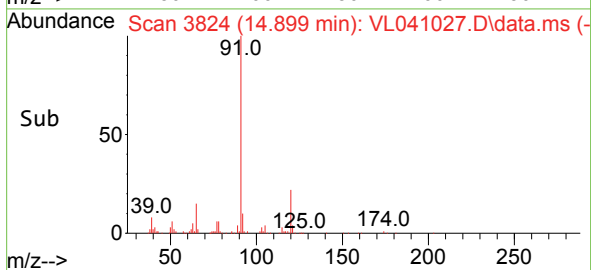
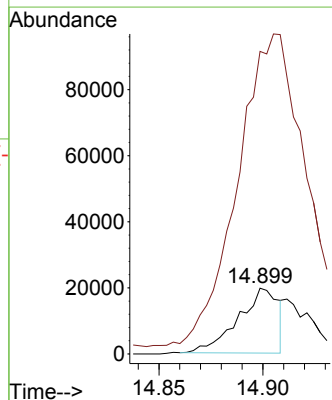
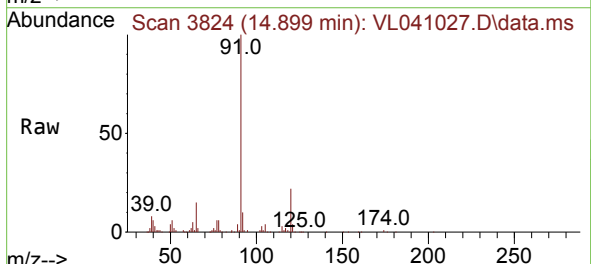
Instrument :
MSVOA_L
ClientSampleId :

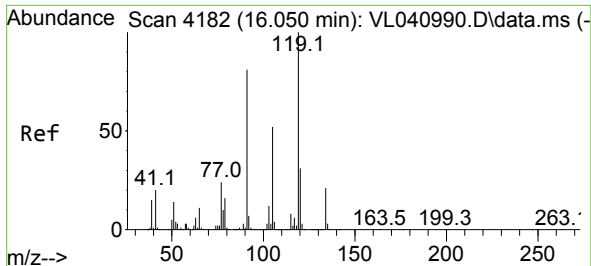
Tgt Ion: 83 Resp: 69824
Ion Ratio Lower Upper
83 100
131 14.8 4.6 13.8#
85 106.7 33.0 99.0#



#64
n-propylbenzene
Concen: 0.254 ppbv
RT: 14.899 min Scan# 3824
Delta R.T. -0.003 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 120 Resp: 26432
Ion Ratio Lower Upper
120 100
91 543.9 390.6 585.8

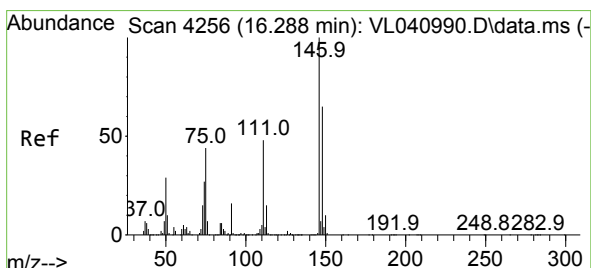
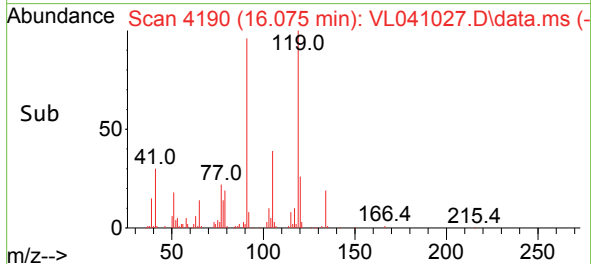
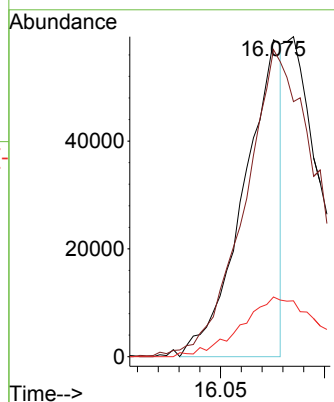
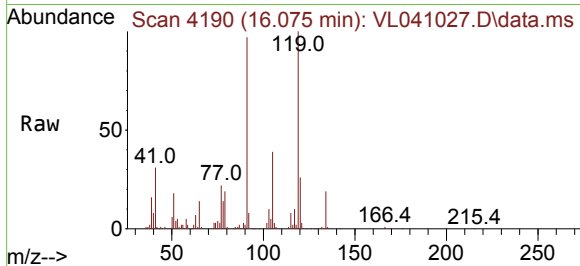




#65
tert-Butylbenzene
Concen: 0.207 ppbv
RT: 16.075 min Scan# 4182
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

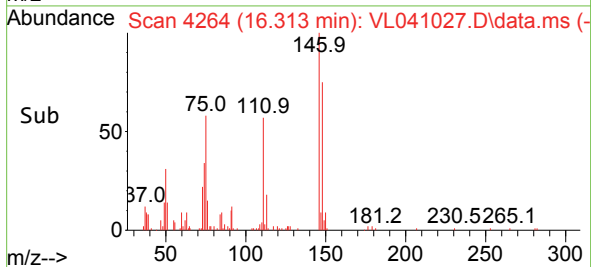
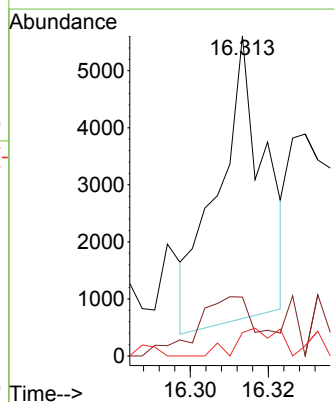
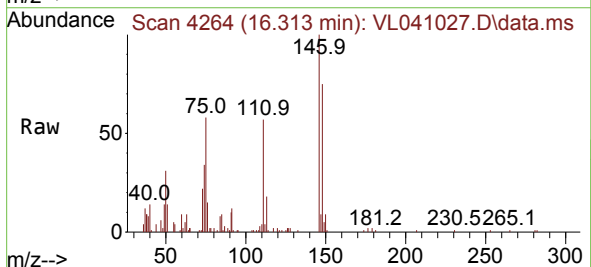
Instrument :
MSVOA_L
ClientSampleId :

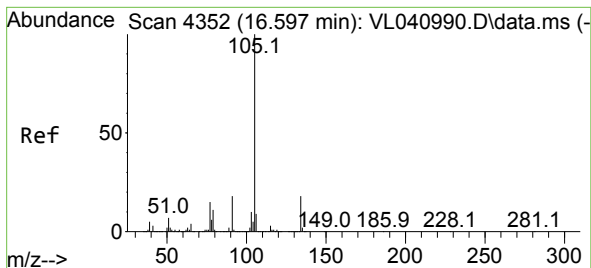
Tgt Ion:119 Resp: 74658
Ion Ratio Lower Upper
119 100
91 202.5 67.6 101.4#
134 39.1 16.1 24.1#



#66
Benzyl Chloride
Concen: 0.172 ppbv
RT: 16.313 min Scan# 4264
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion: 91 Resp: 4053
Ion Ratio Lower Upper
91 100
126 0.0 13.6 20.4#
128 10.9 4.2 6.2#





#67

sec-Butylbenzene

Concen: 0.441 ppbv

RT: 16.622 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

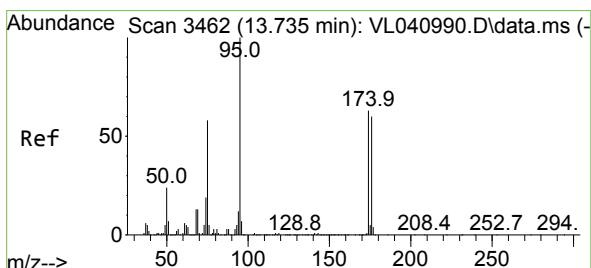
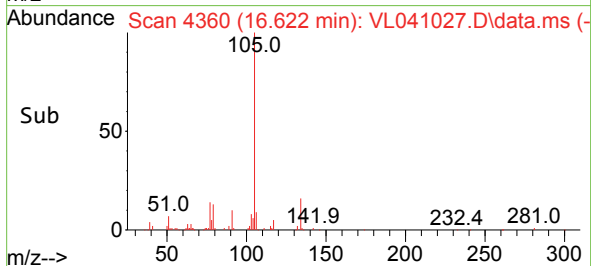
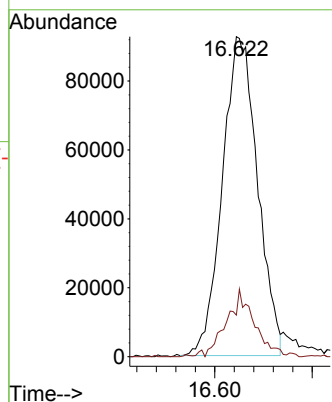
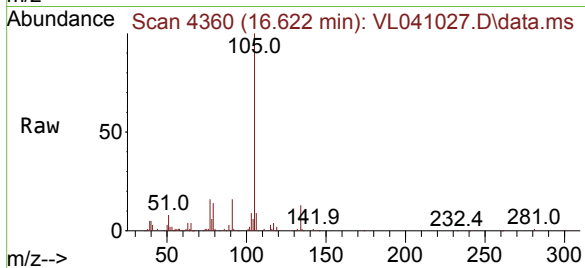
ClientSampleId :

Tgt Ion:105 Resp: 231775

Ion Ratio Lower Upper

105 100

134 17.0 14.2 21.4



#68

1-Bromo-4-Fluorobenzene

Concen: 9.955 ppbv

RT: 13.760 min Scan# 3470

Delta R.T. -0.003 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

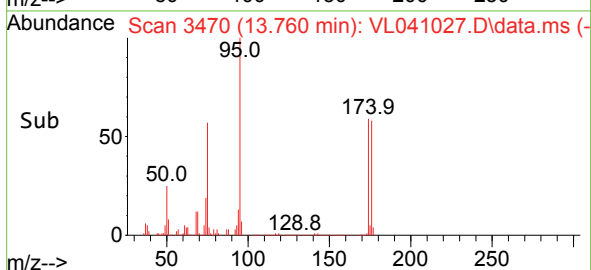
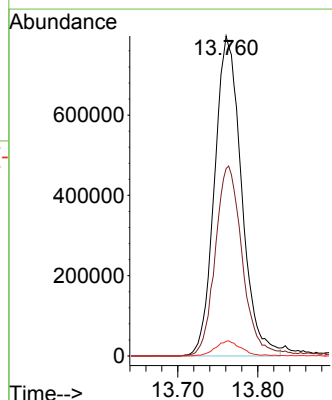
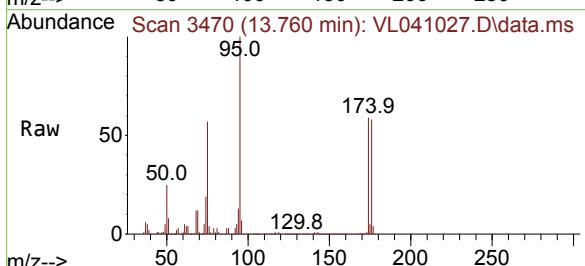
Tgt Ion: 95 Resp: 1868080

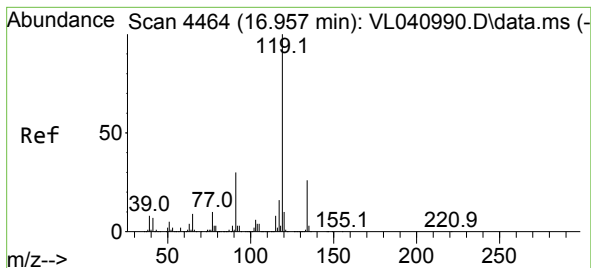
Ion Ratio Lower Upper

95 100

174 60.9 49.1 73.7

175 4.6 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.258 ppbv

RT: 16.985 min Scan# 4464

Delta R.T. 0.006 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

ClientSampleId :

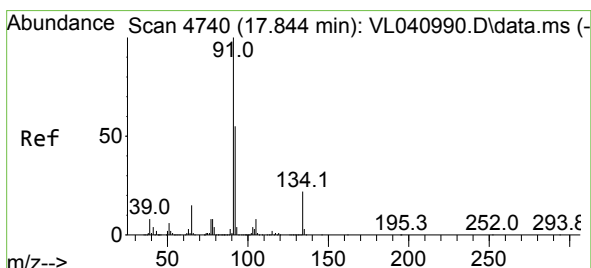
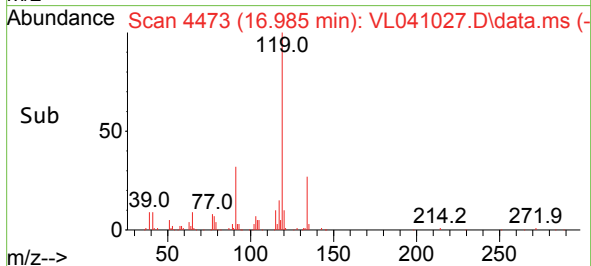
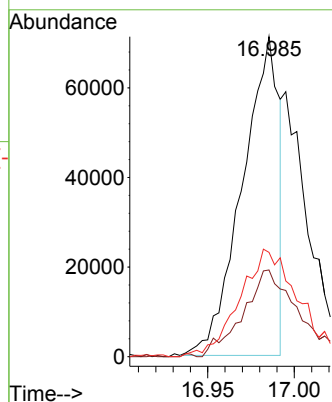
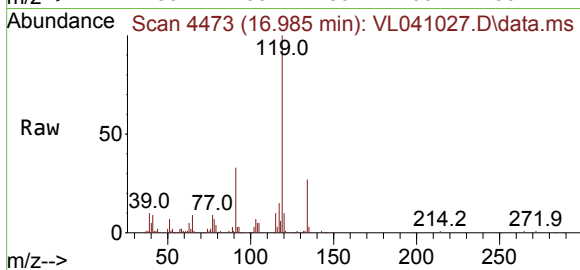
Tgt Ion:119 Resp: 104837

Ion Ratio Lower Upper

119 100

134 42.7 20.6 30.8#

91 58.1 24.5 36.7#



#70

n-Butylbenzene

Concen: 0.180 ppbv

RT: 17.873 min Scan# 4749

Delta R.T. 0.003 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

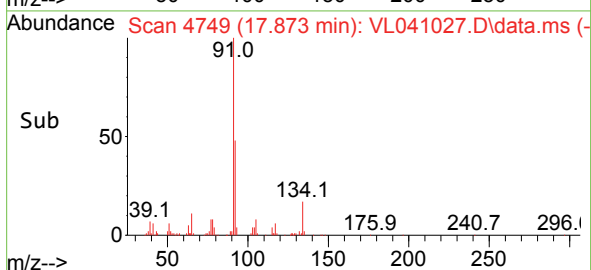
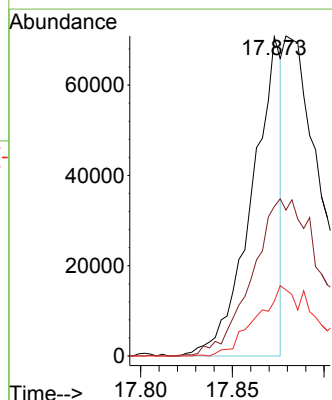
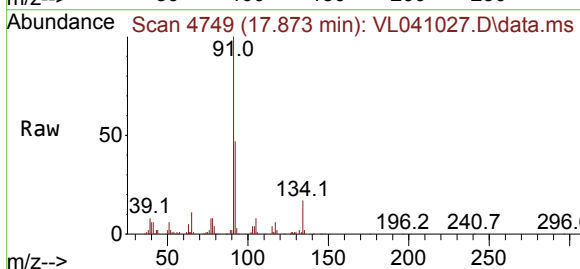
Tgt Ion: 91 Resp: 79261

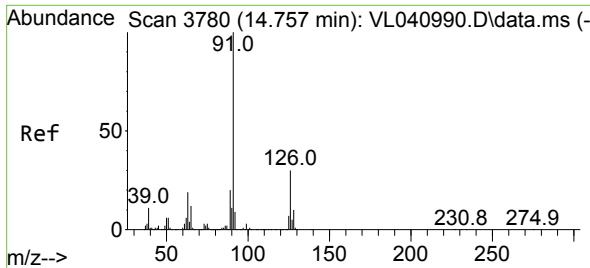
Ion Ratio Lower Upper

91 100

92 0.0 43.4 65.0#

134 0.0 17.4 26.0#

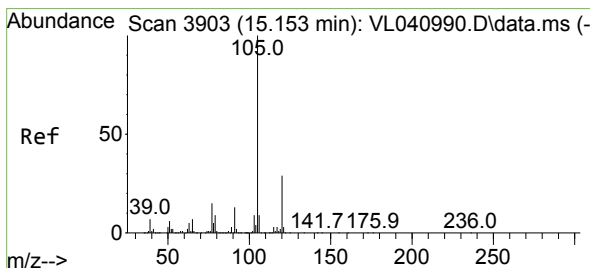
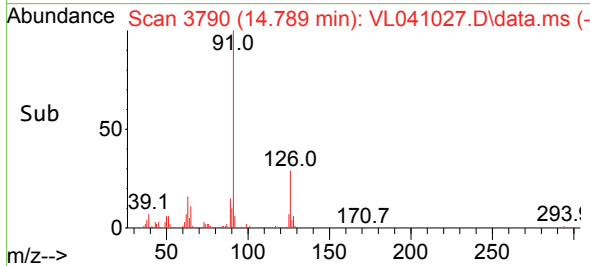
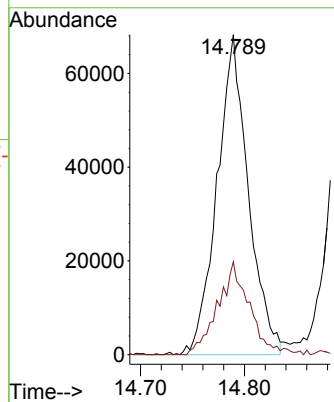
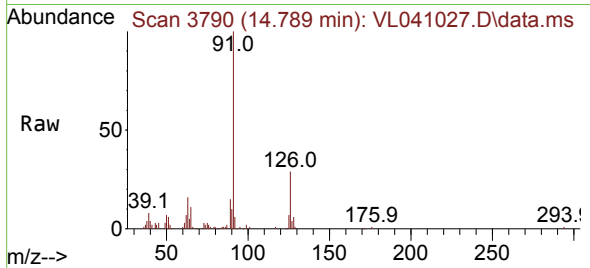




#71
2-Chlorotoluene
Concen: 0.448 ppbv
RT: 14.789 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

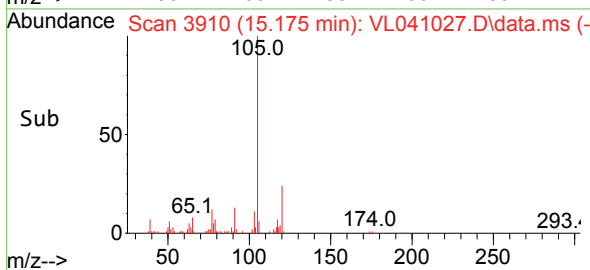
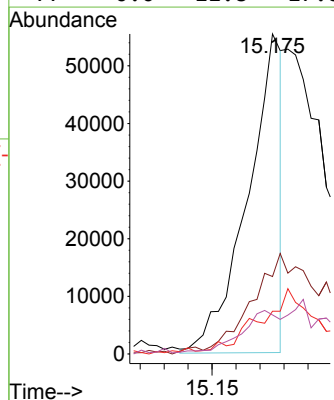
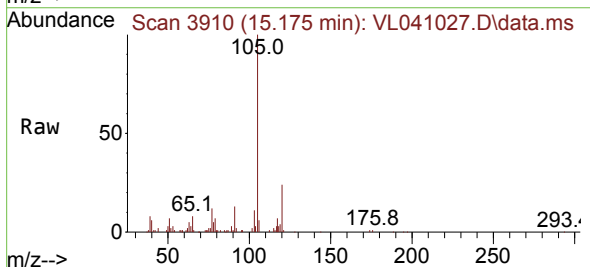
Instrument :
MSVOA_L
ClientSampleId :

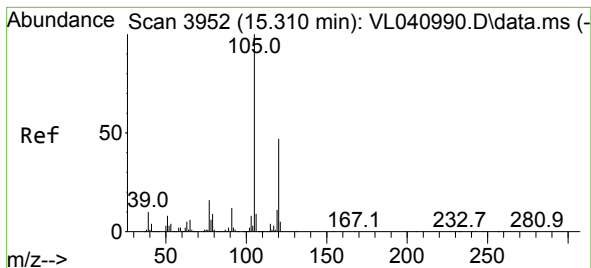
Tgt Ion: 91 Resp: 142568
Ion Ratio Lower Upper
91 100
126 30.4 12.3 49.1



#72
4-Ethyltoluene
Concen: 0.177 ppbv
RT: 15.175 min Scan# 3910
Delta R.T. -0.000 min
Lab File: VL041027.D
Acq: 25 Jan 2024 13:23

Tgt Ion:105 Resp: 55110
Ion Ratio Lower Upper
105 100
120 0.0 24.3 36.5#
91 0.0 11.0 16.4#
77 0.0 11.8 17.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.405 ppbv

RT: 15.336 min Scan# 3960

Delta R.T. -0.003 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

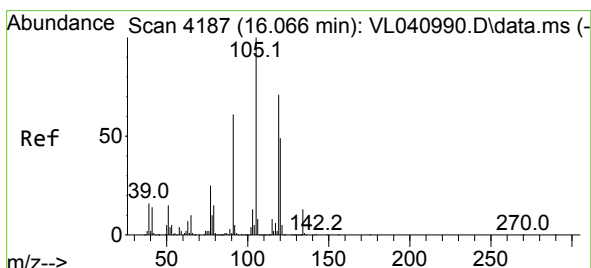
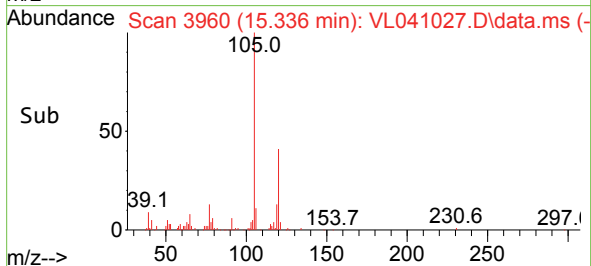
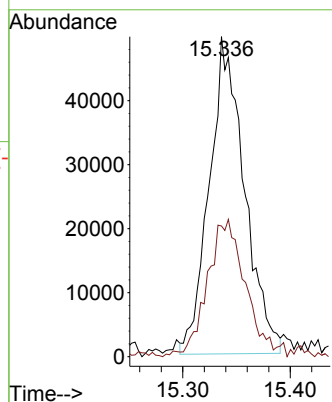
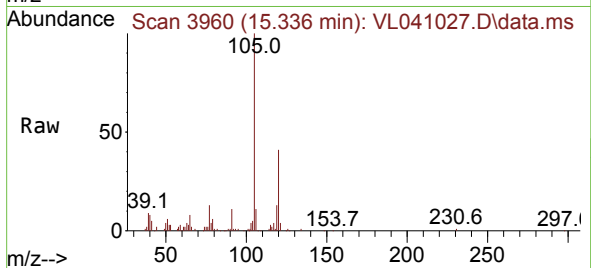
ClientSampleId :

Tgt Ion:105 Resp: 112117

Ion Ratio Lower Upper

105 100

120 41.1 37.2 55.8



#74

1,2,4-Trimethylbenzene

Concen: 0.187 ppbv

RT: 16.088 min Scan# 4194

Delta R.T. -0.007 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Tgt Ion:105 Resp: 58705

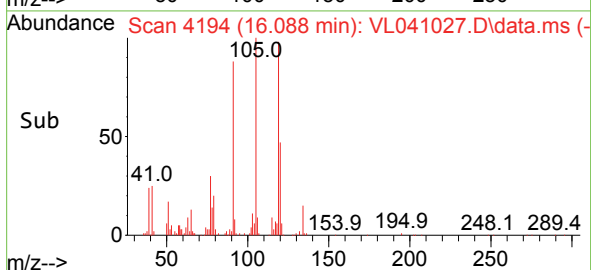
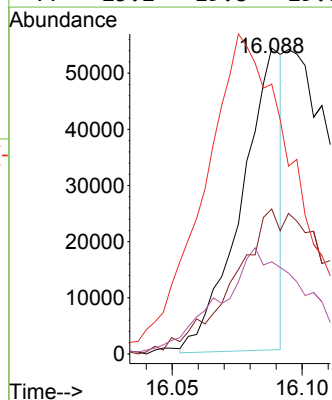
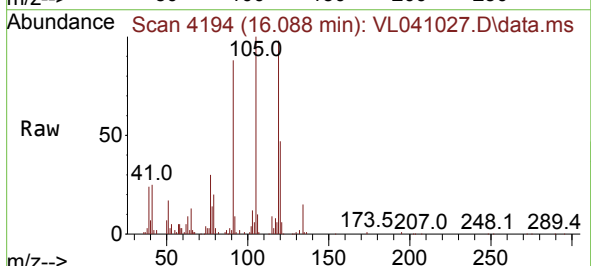
Ion Ratio Lower Upper

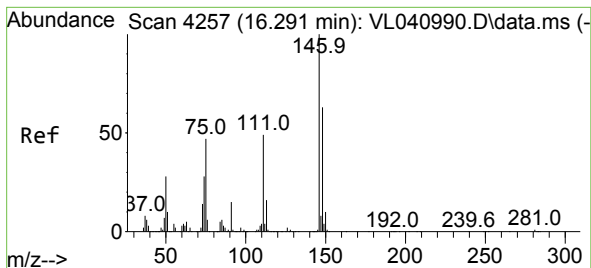
105 100

120 50.0 39.3 58.9

91 59.1 48.7 73.1

77 25.2 19.8 29.8





#75

1,3-Dichlorobenzene

Concen: 0.164 ppbv

RT: 16.310 min Scan# 41

Delta R.T. -0.007 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

ClientSampleId :

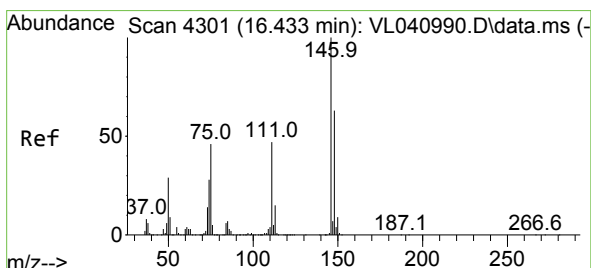
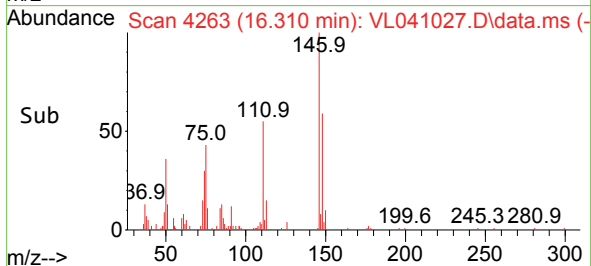
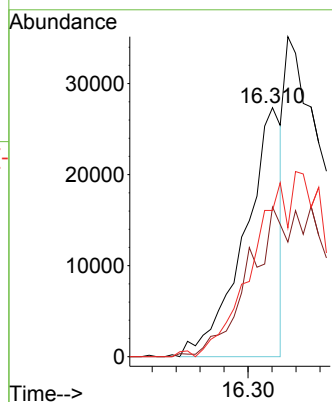
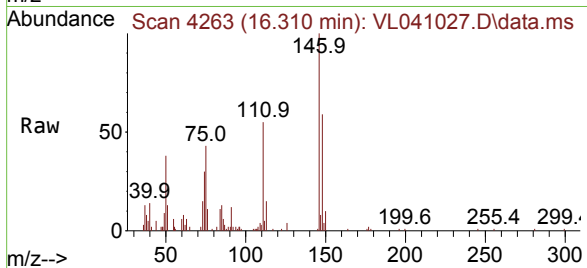
Tgt Ion:146 Resp: 29336

Ion Ratio Lower Upper

146 100

111 0.0 24.4 73.2#

148 0.0 32.5 97.4#



#76

1,4-Dichlorobenzene

Concen: 0.278 ppbv

RT: 16.458 min Scan# 4309

Delta R.T. -0.000 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

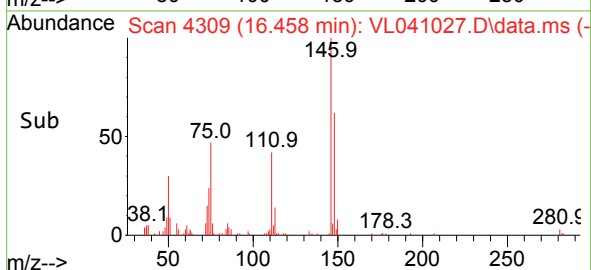
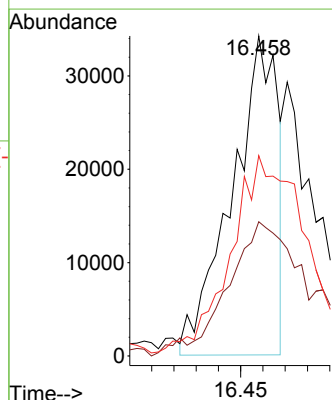
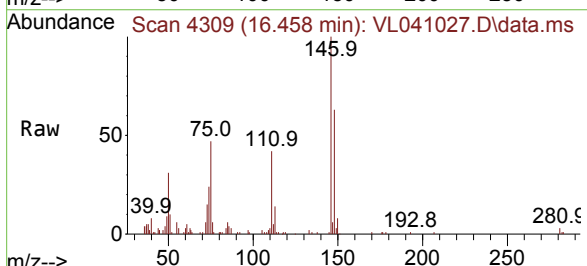
Tgt Ion:146 Resp: 48987

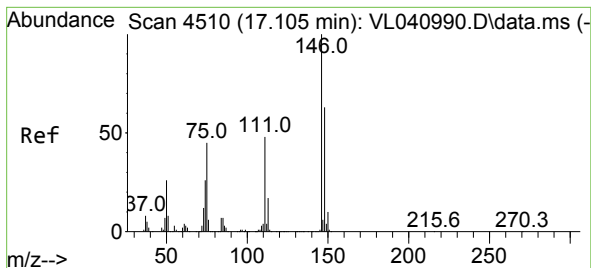
Ion Ratio Lower Upper

146 100

111 81.7 24.0 72.0#

148 116.6 32.9 98.7#





#77

1,2-Dichlorobenzene

Concen: 0.220 ppbv

RT: 17.130 min Scan# 4

Delta R.T. 0.003 min

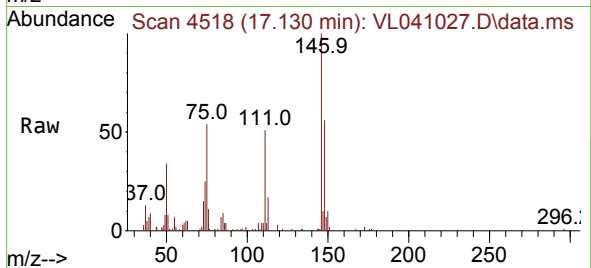
Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

ClientSampleId :



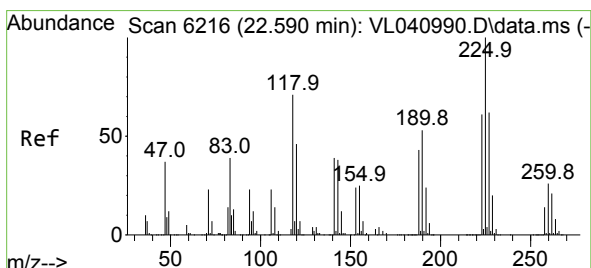
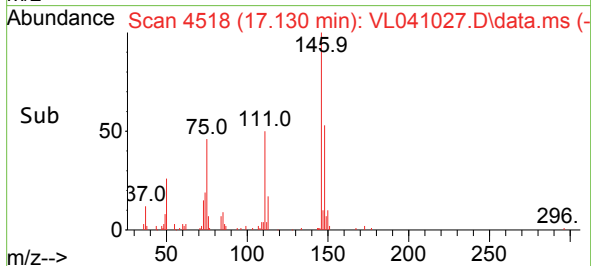
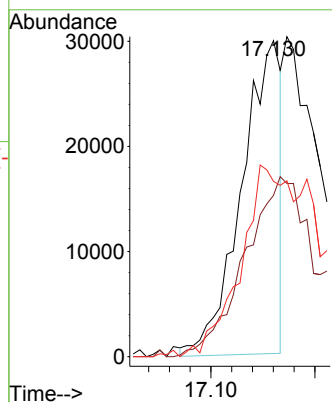
Tgt Ion:146 Resp: 39036

Ion	Ratio	Lower	Upper
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146	100		
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111	0.0	24.8	74.3#
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148	136.6	31.8	95.3#
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#78

Hexachloro-1,3-Butadiene

Concen: 0.094 ppbv

RT: 22.603 min Scan# 6220

Delta R.T. -0.013 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

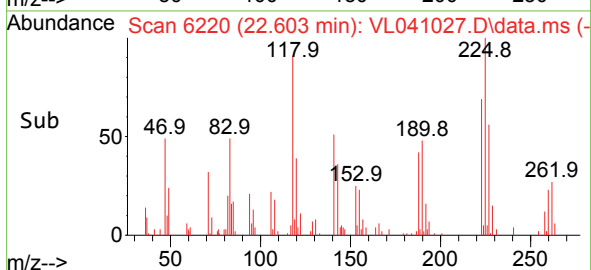
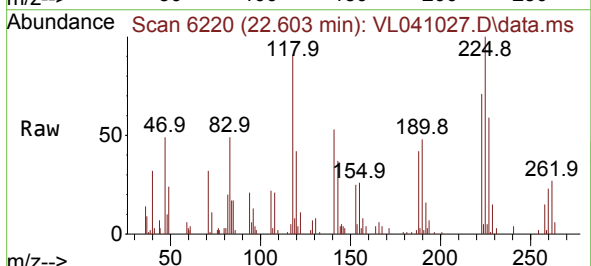
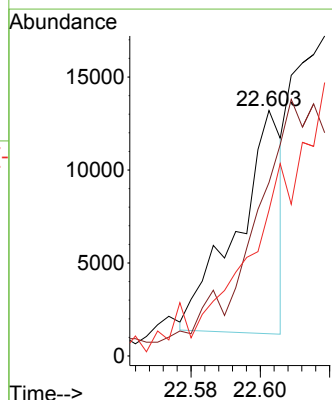
Tgt Ion:225 Resp: 10804

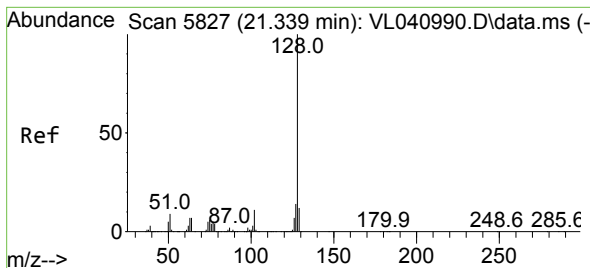
Ion	Ratio	Lower	Upper
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225	100		
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223	389.9	51.1	76.7#
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227	0.0	51.0	76.4#
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#79

Naphthalene

Concen: 0.171 ppbv

RT: 21.381 min Scan# 5840

Delta R.T. 0.016 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

ClientSampleId :

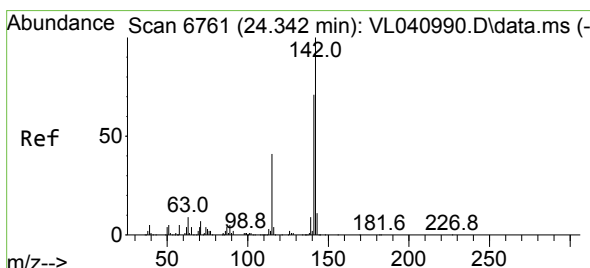
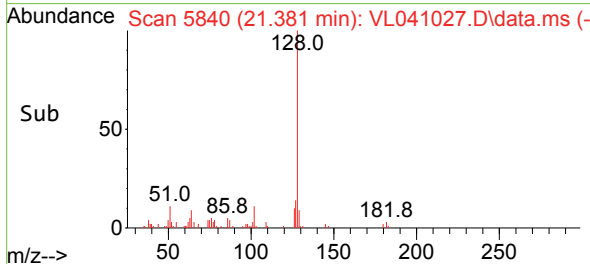
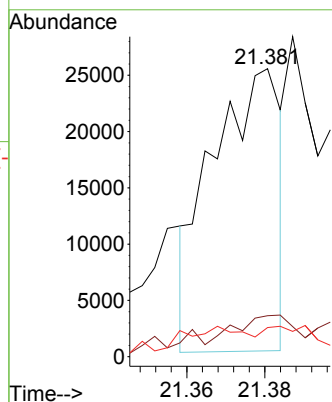
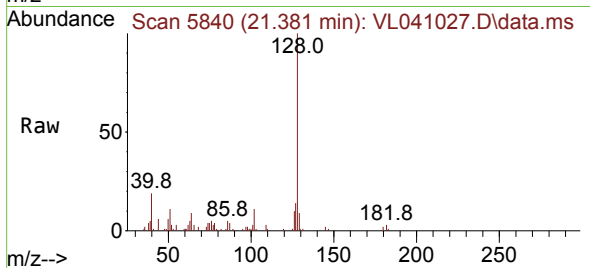
Tgt Ion:128 Resp: 30532

Ion Ratio Lower Upper

128 100

127 17.3 10.9 16.3#

129 2.0 9.3 13.9#



#80

Naphthalene,2-methyl-

Concen: 0.162 ppbv

RT: 24.474 min Scan# 6802

Delta R.T. 0.112 min

Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

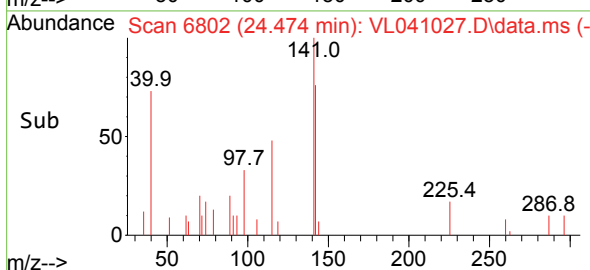
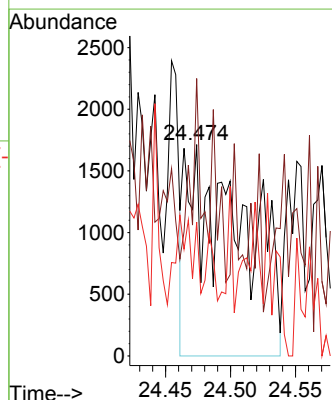
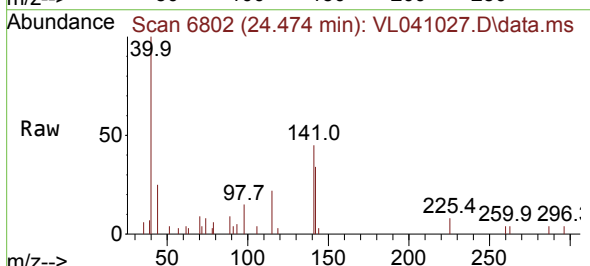
Tgt Ion:142 Resp: 5084

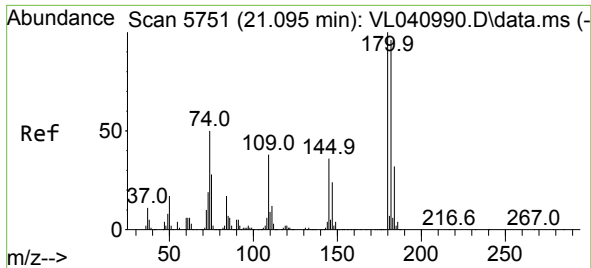
Ion Ratio Lower Upper

142 100

141 88.0 62.7 94.1

115 44.1 34.0 51.0





#81

1,2,4-Trichlorobenzene

Concen: 0.154 ppbv

RT: 21.123 min Scan# 51

Delta R.T. 0.003 min

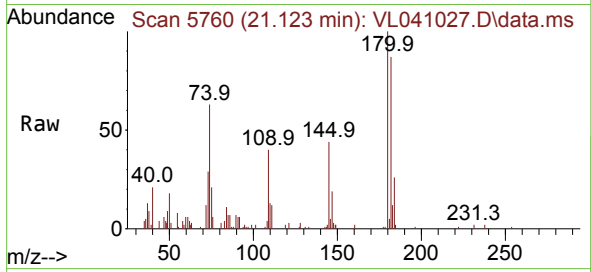
Lab File: VL041027.D

Acq: 25 Jan 2024 13:23

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:180 Resp: 16046

Ion Ratio Lower Upper

180 100

182 0.0 78.6 118.0#

184 78.7 24.4 36.6#

