

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052124\
 Data File : VL041272.D
 Acq On : 21 May 2024 19:37
 Operator : SY/MD
 Sample : P2534-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: May 22 05:47:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 22 05:39:49 2024
 Response via : Initial Calibration

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

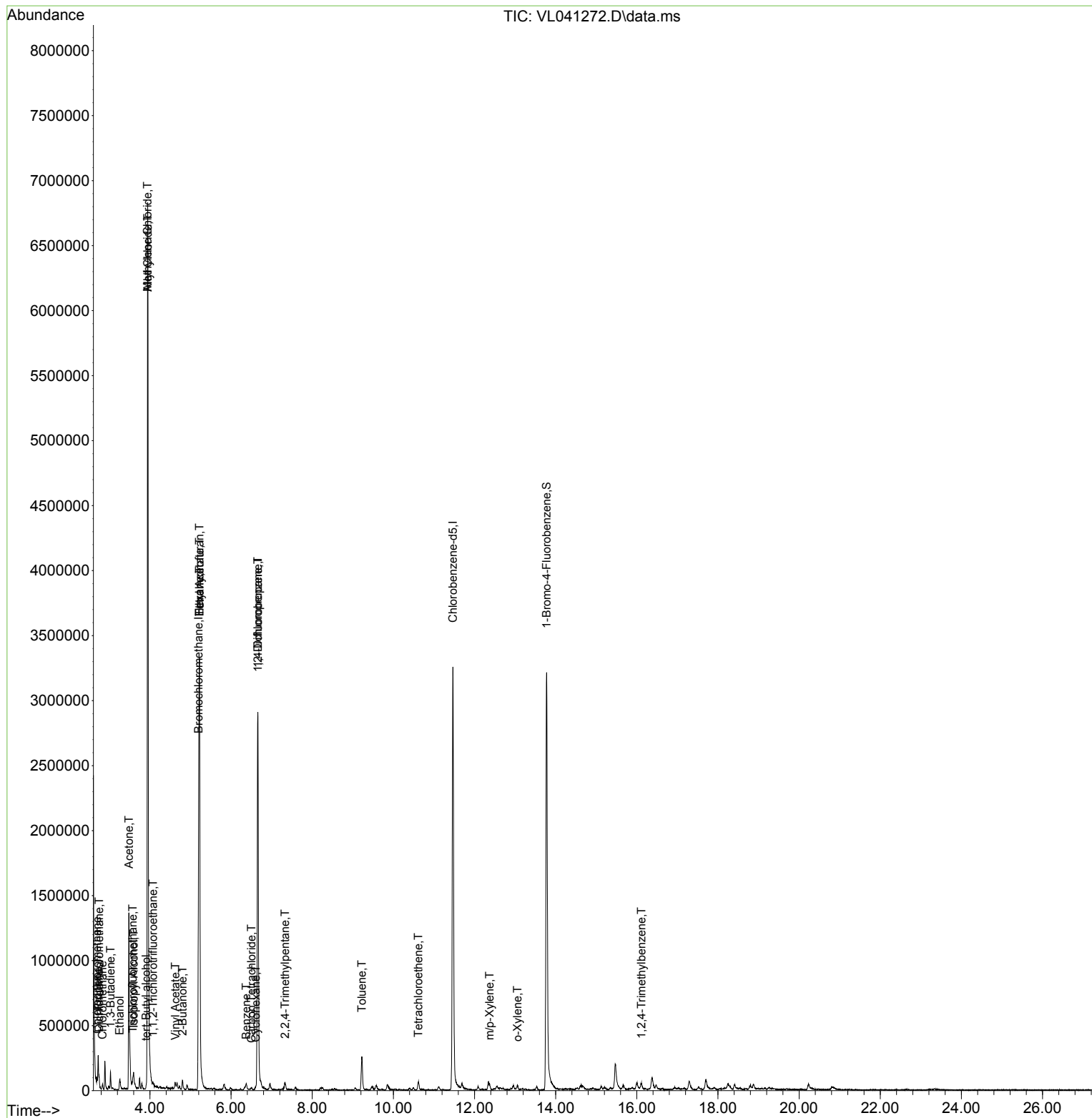
Internal Standards						
1) Bromochloromethane	5.201	49	884784	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2227397	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2165747	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1686330	10.314	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	45709	0.382	ppbv	97
3) Chlorodifluoromethane	2.693	51	92618	0.689	ppbv #	89
4) Chloromethane	2.832	50	31829	0.604	ppbv	94
9) Propene	2.725	41	59169	1.125	ppbv #	76
11) Trichlorofluoromethane	3.578	101	29634	0.244	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.076	101	3837	0.043	ppbv #	42
13) Ethanol	3.256	45	85406	7.245	ppbv	94
15) Acetone	3.481	43	1379378	13.210	ppbv	100
16) 1,3-Butadiene	3.031	39	13053	0.248	ppbv #	38
17) tert-Butyl alcohol	3.906	59	5327	0.047	ppbv #	72
19) Isopropyl Alcohol	3.597	45	119871	1.749	ppbv #	41
20) Methylene Chloride	3.944	84	2244333	61.808	ppbv	98
21) Allyl Chloride	3.947	41	92034	1.352	ppbv #	22
23) Vinyl Acetate	4.629	43	15257	0.133	ppbv #	76
25) Ethyl Acetate	5.221	43	843788	4.048	ppbv #	77
26) Hexane	5.221	57	1183341	12.723	ppbv #	40
30) Cyclohexane	6.610	84	2552	0.035	ppbv #	1
34) 2-Butanone	4.803	43	85959	0.758	ppbv	98
35) Carbon Tetrachloride	6.500	117	6453	0.052	ppbv #	85
36) Benzene	6.375	78	30231	0.162	ppbv	97
39) 1,2-Dichloropropane	6.661	63	571589	7.935	ppbv #	24
41) Tetrahydrofuran	5.221	42	441811	5.383	ppbv #	52
44) 2,2,4-Trimethylpentane	7.333	57	50665	0.157	ppbv #	87
52) Tetrachloroethene	10.619	164	13611	0.207	ppbv	92
53) Toluene	9.224	91	191842	0.885	ppbv	99
59) m/p-Xylene	12.371	91	16515	0.066	ppbv #	31
60) o-Xylene	13.056	91	14085	0.060	ppbv #	62
74) 1,2,4-Trimethylbenzene	16.114	105	23056	0.088	ppbv #	68

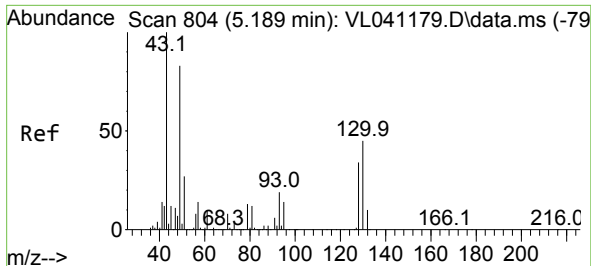
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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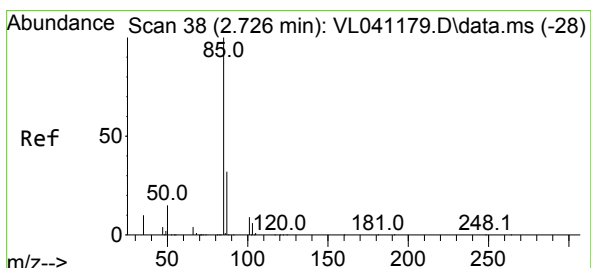
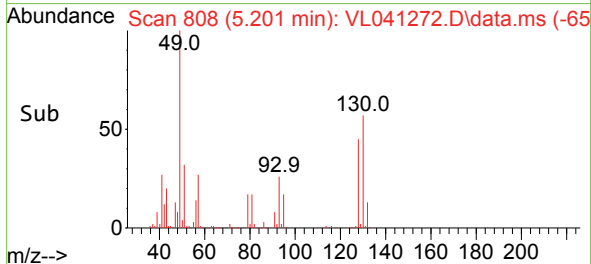
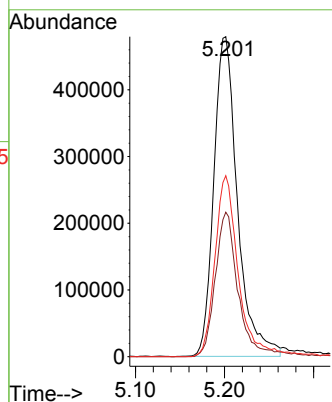
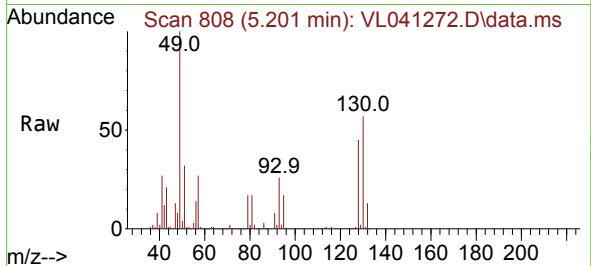




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.201 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VL041272.D
 Acq: 21 May 2024 19:37

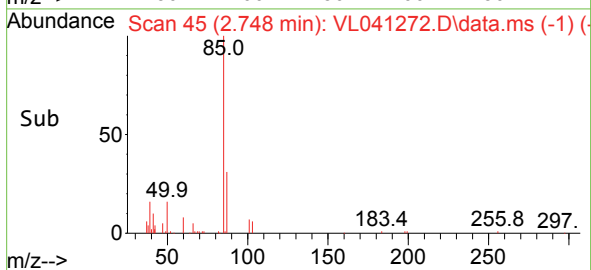
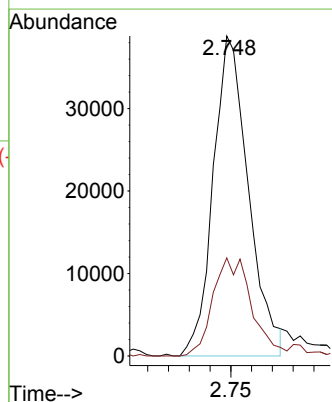
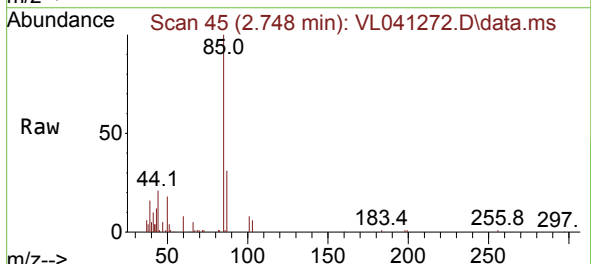
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

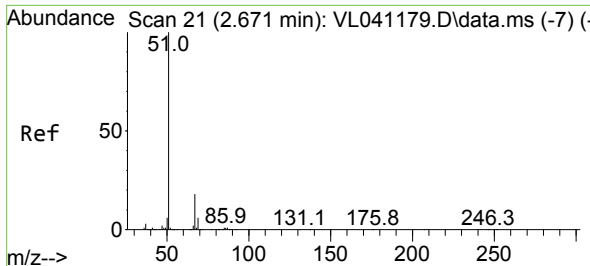
Tgt Ion: 49 Resp: 884784
 Ion Ratio Lower Upper
 49 100
 128 44.6 21.5 64.5
 130 56.5 27.2 81.6



#2
 Dichlorodifluoromethane
 Concen: 0.382 ppbv
 RT: 2.748 min Scan# 45
 Delta R.T. -0.000 min
 Lab File: VL041272.D
 Acq: 21 May 2024 19:37

Tgt Ion: 85 Resp: 45709
 Ion Ratio Lower Upper
 85 100
 87 30.7 25.7 38.5

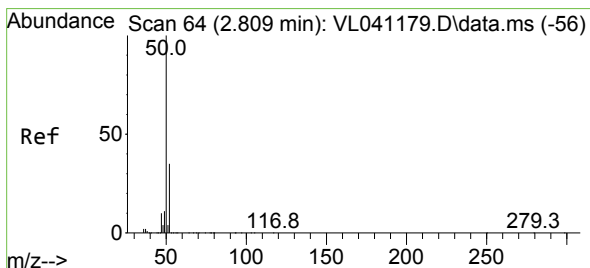
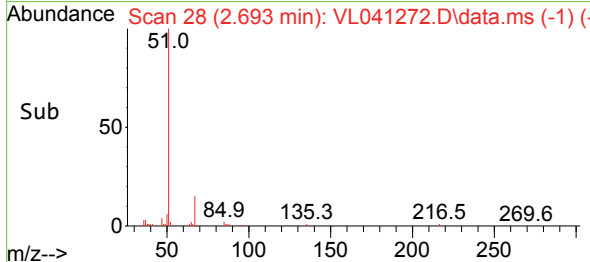
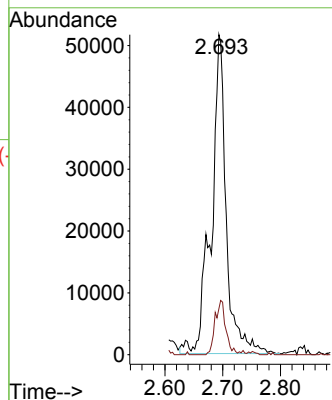
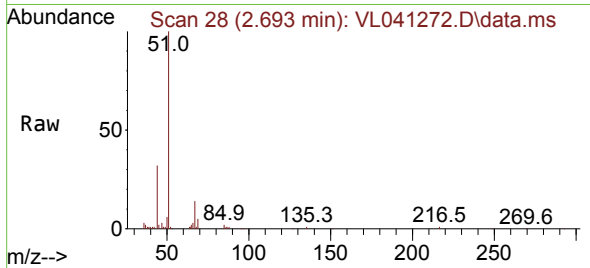




#3
Chlorodifluoromethane
Concen: 0.689 ppbv
RT: 2.693 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

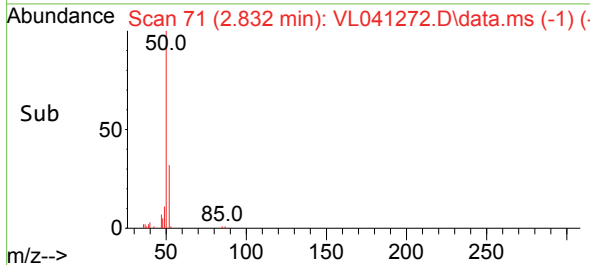
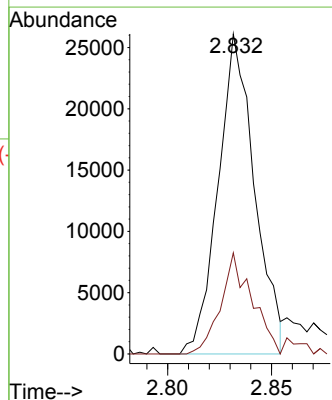
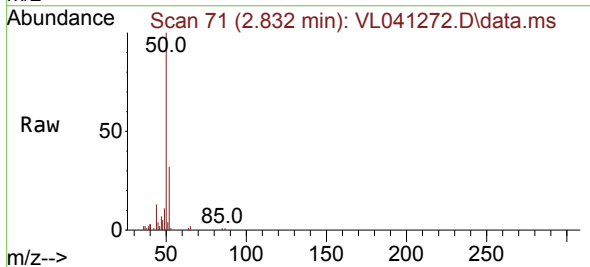
Instrument :
MSVOA_L
ClientSampleId :
OA1

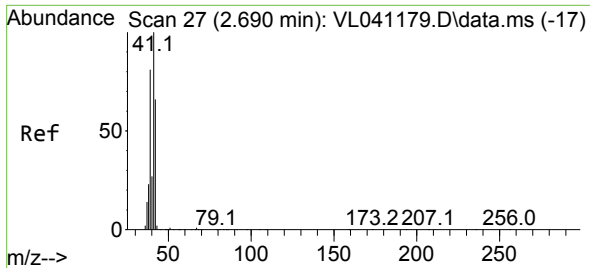
Tgt Ion: 51 Resp: 92618
Ion Ratio Lower Upper
51 100
67 12.6 14.0 21.0#



#4
Chloromethane
Concen: 0.604 ppbv
RT: 2.832 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

Tgt Ion: 50 Resp: 31829
Ion Ratio Lower Upper
50 100
52 32.0 28.3 42.5





#9

Propene

Concen: 1.125 ppbv

RT: 2.725 min Scan# 303

Delta R.T. 0.013 min

Lab File: VL041272.D

Acq: 21 May 2024 19:37

Instrument :

MSVOA_L

ClientSampleId :

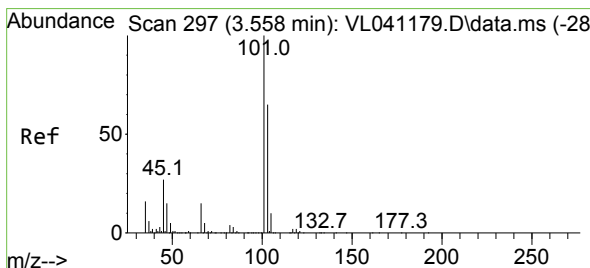
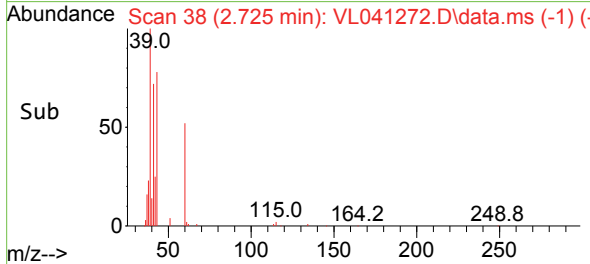
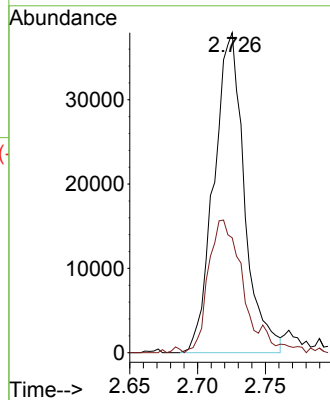
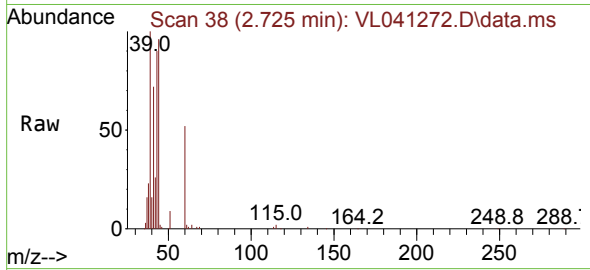
OA1

Tgt Ion: 41 Resp: 59169

Ion Ratio Lower Upper

41 100

42 49.4 55.3 82.9#



#11

Trichlorofluoromethane

Concen: 0.244 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.003 min

Lab File: VL041272.D

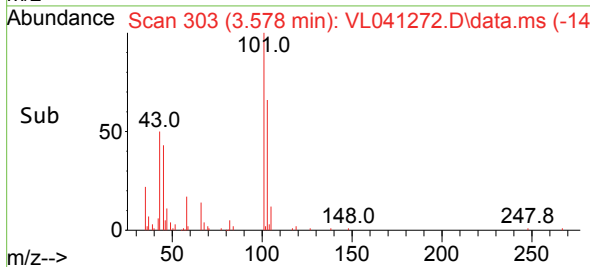
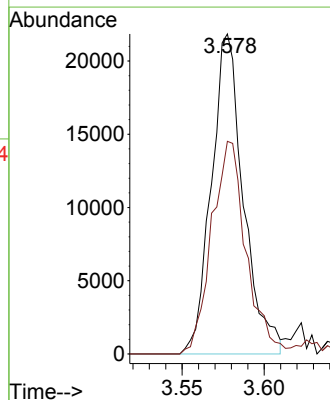
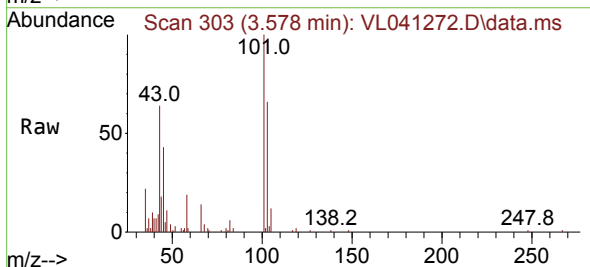
Acq: 21 May 2024 19:37

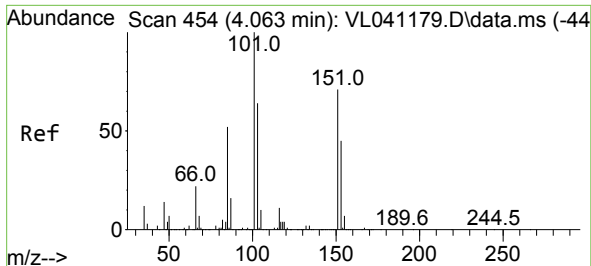
Tgt Ion:101 Resp: 29634

Ion Ratio Lower Upper

101 100

103 66.5 51.6 77.4

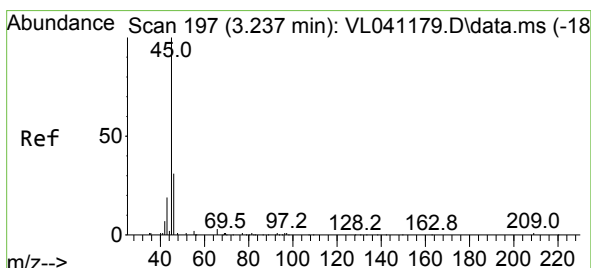
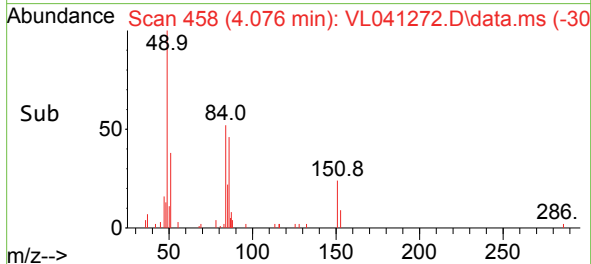
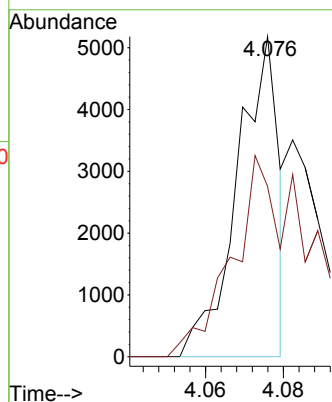
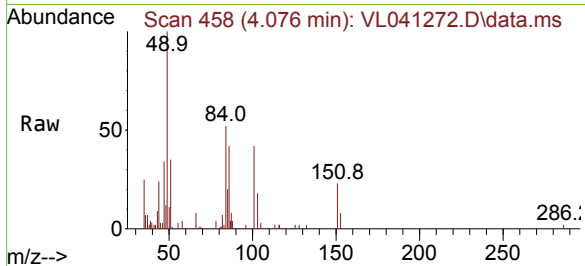




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.043 ppbv
RT: 4.076 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

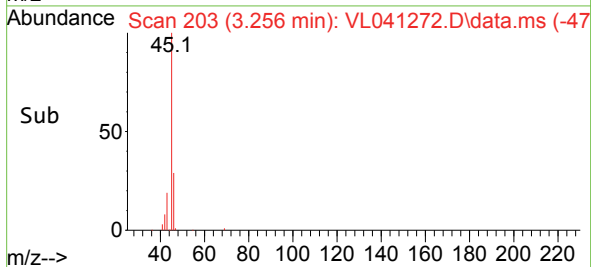
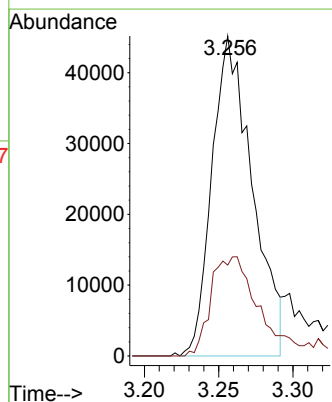
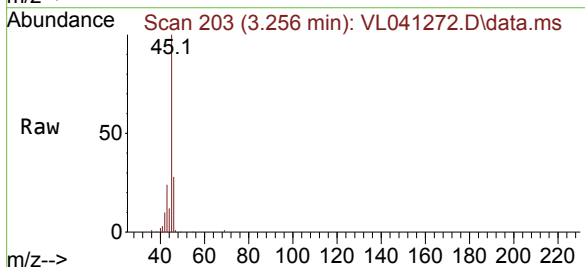
Instrument :
MSVOA_L
ClientSampleId :
OA1

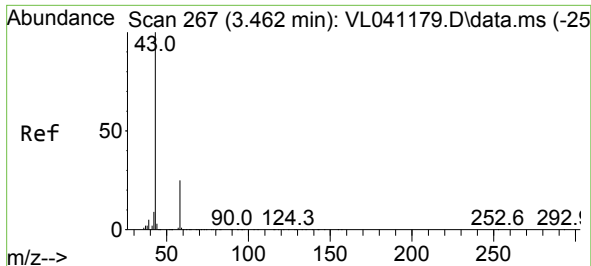
Tgt Ion:101 Resp: 3837
Ion Ratio Lower Upper
101 100
151 119.2 56.8 85.2#



#13
Ethanol
Concen: 7.245 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.003 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

Tgt Ion: 45 Resp: 85406
Ion Ratio Lower Upper
45 100
46 40.3 14.8 59.0





#15

Acetone

Concen: 13.210 ppbv

RT: 3.481 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL041272.D

Acq: 21 May 2024 19:37

Instrument :

MSVOA_L

ClientSampleId :

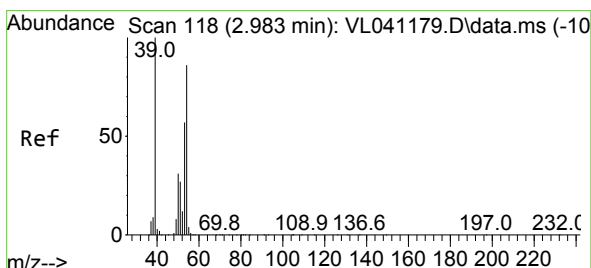
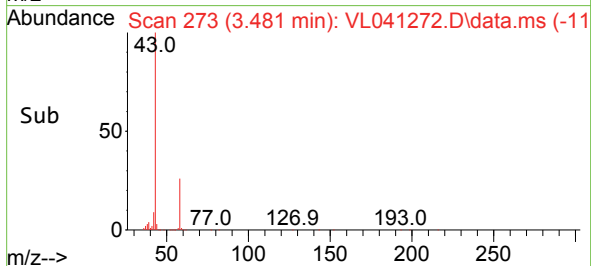
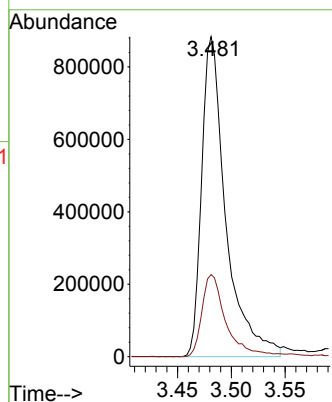
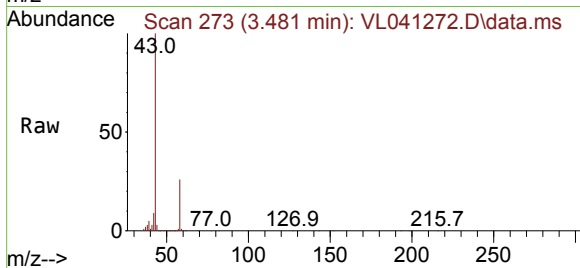
OA1

Tgt Ion: 43 Resp: 1379378

Ion Ratio Lower Upper

43 100

58 26.9 21.4 32.0



#16

1,3-Butadiene

Concen: 0.248 ppbv

RT: 3.031 min Scan# 133

Delta R.T. 0.029 min

Lab File: VL041272.D

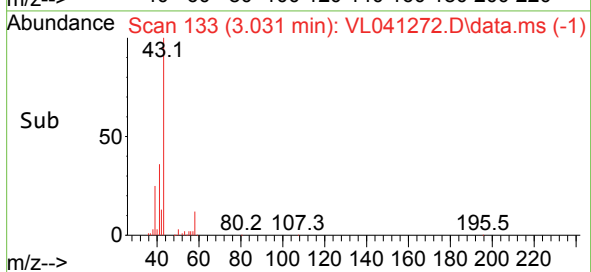
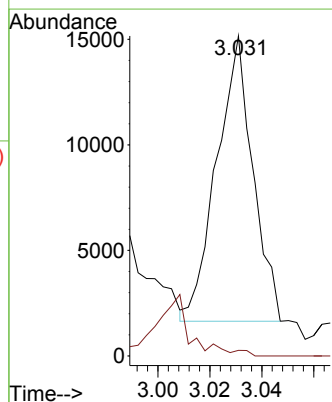
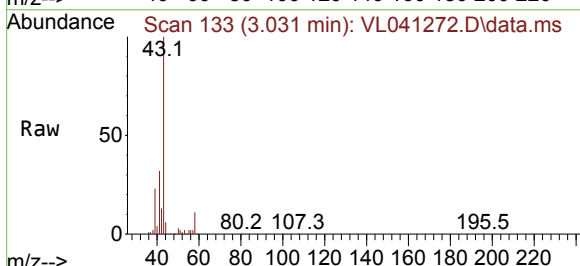
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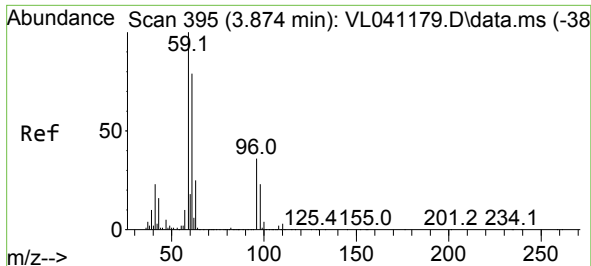
Tgt Ion: 39 Resp: 13053

Ion Ratio Lower Upper

39 100

54 23.9 62.2 93.4#





#17

tert-Butyl alcohol

Concen: 0.047 ppbv

RT: 3.906 min Scan# 405

Delta R.T. 0.019 min

Lab File: VL041272.D

Acq: 21 May 2024 19:37

Instrument :

MSVOA_L

ClientSampleId :

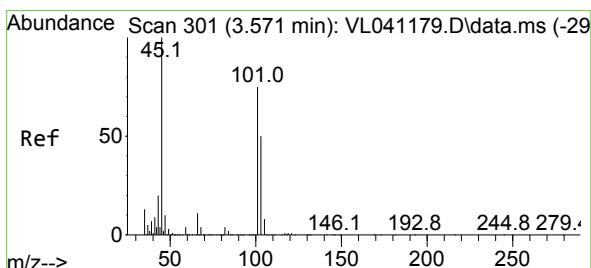
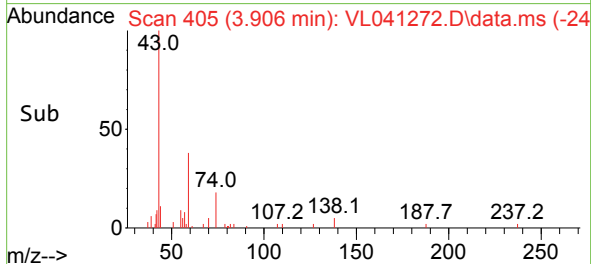
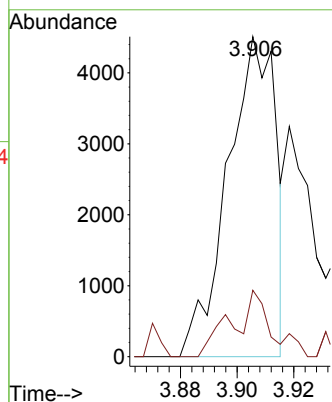
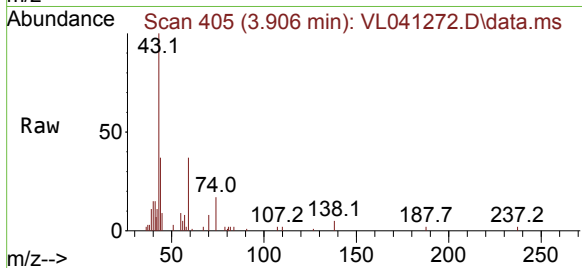
OA1

Tgt Ion: 59 Resp: 5327

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 1.749 ppbv

RT: 3.597 min Scan# 309

Delta R.T. 0.009 min

Lab File: VL041272.D

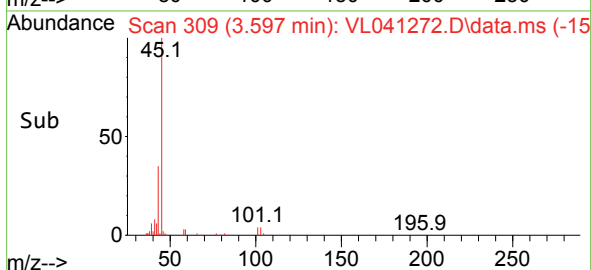
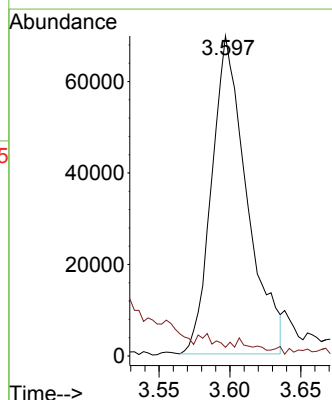
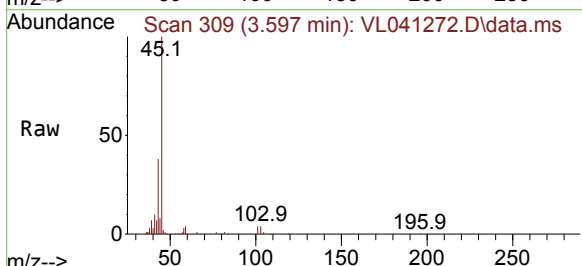
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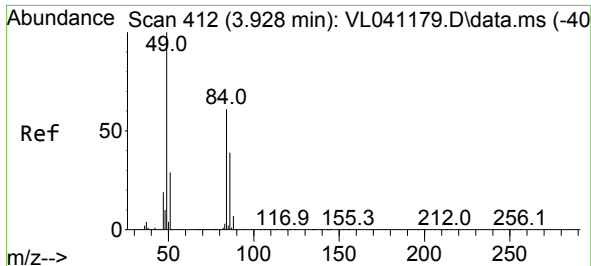
Tgt Ion: 45 Resp: 119871

Ion Ratio Lower Upper

45 100

58 0.0 26.8 40.2#



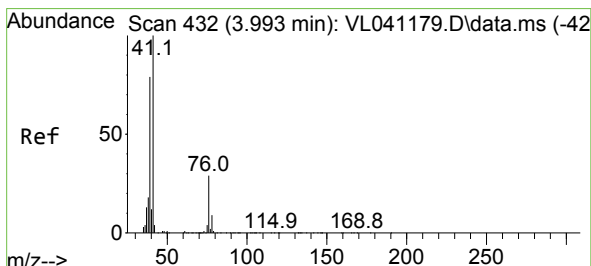
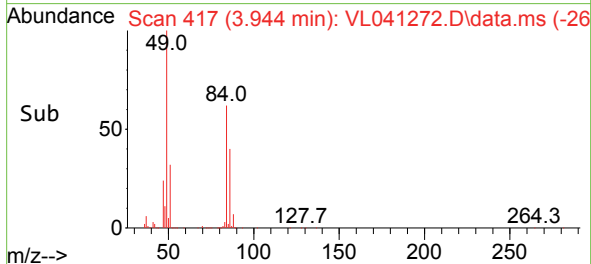
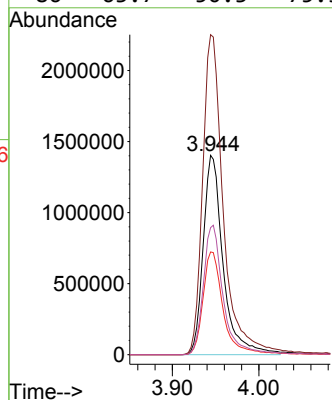
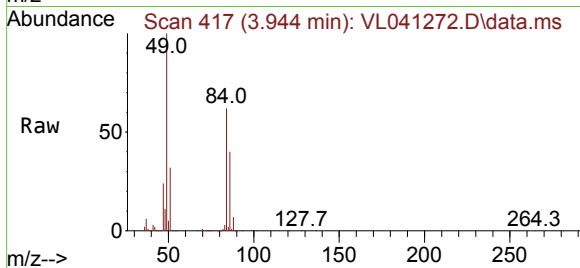


#20
Methylene Chloride
Concen: 61.808 ppbv
RT: 3.944 min Scan# 417
Delta R.T. -0.000 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84 Resp: 2244333

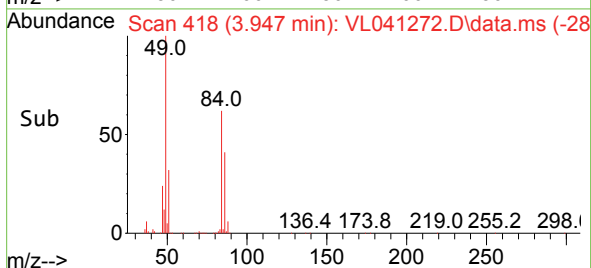
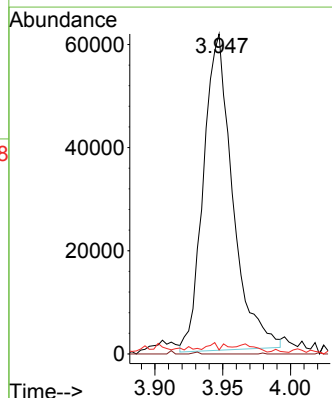
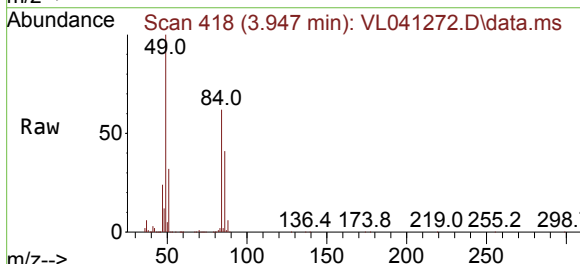
Ion	Ratio	Lower	Upper
84	100		
49	160.5	130.4	195.6
51	51.5	38.0	57.0
86	63.7	50.3	75.5

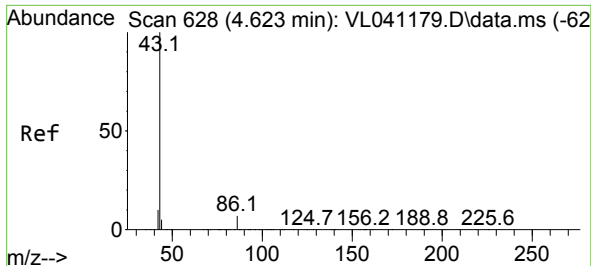


#21
Allyl Chloride
Concen: 1.352 ppbv
RT: 3.947 min Scan# 418
Delta R.T. -0.061 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

Tgt Ion: 41 Resp: 92034

Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.7	35.5#
39	3.8	64.7	97.1#

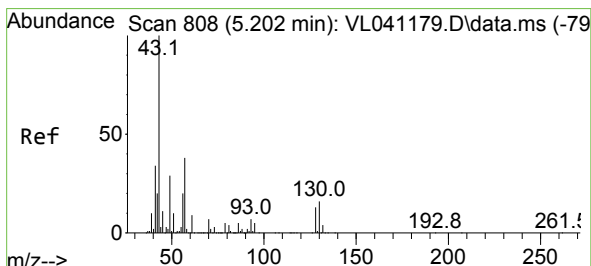
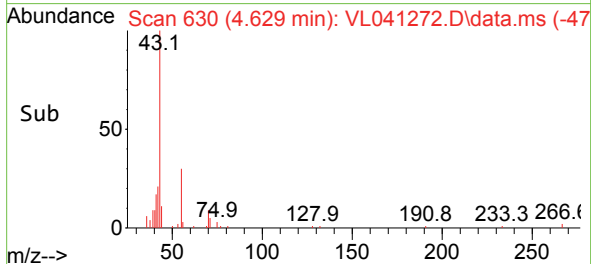
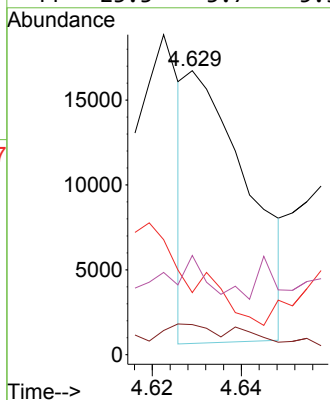
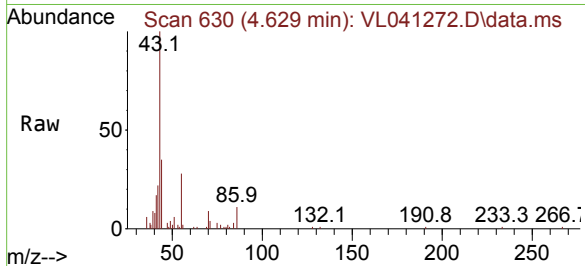




#23
 Vinyl Acetate
 Concen: 0.133 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: VL041272.D
 Acq: 21 May 2024 19:37

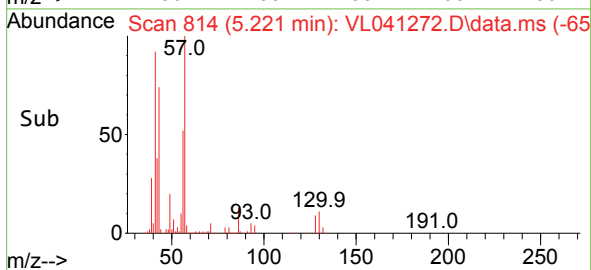
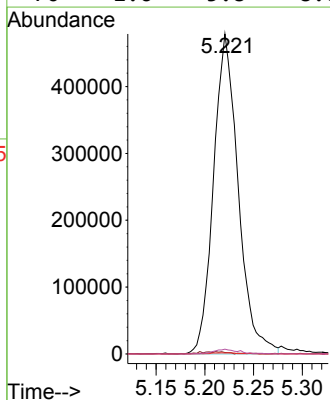
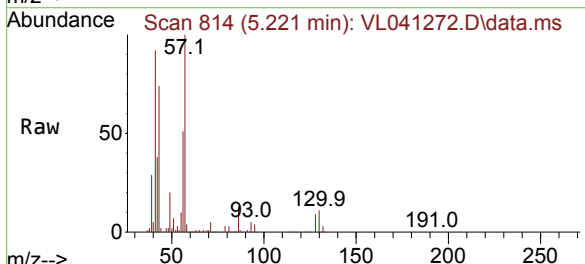
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

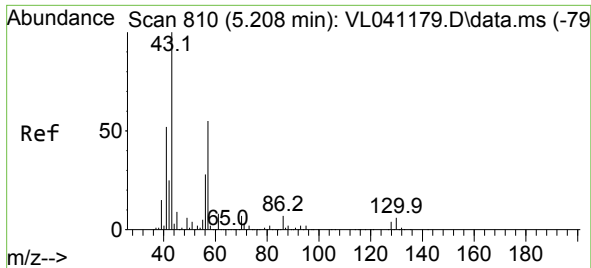
Tgt Ion:	43	Resp:	15257
Ion	Ratio	Lower	Upper
43	100		
86	11.9	4.9	7.3#
42	5.1	8.0	12.0#
44	23.3	3.7	5.5#



#25
 Ethyl Acetate
 Concen: 4.048 ppbv
 RT: 5.221 min Scan# 814
 Delta R.T. 0.009 min
 Lab File: VL041272.D
 Acq: 21 May 2024 19:37

Tgt Ion:	43	Resp:	843788
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.2	12.2#
61	0.4	7.7	11.5#
70	1.6	5.8	8.6#

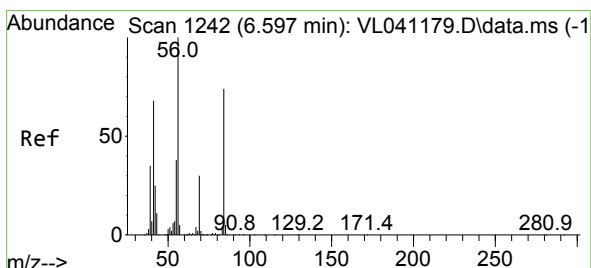
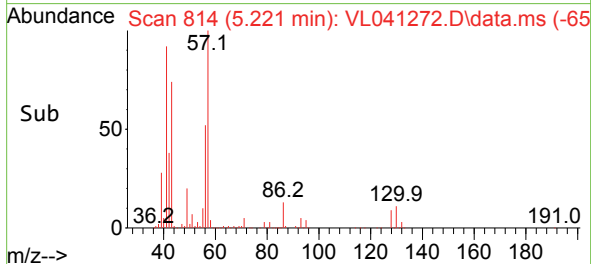
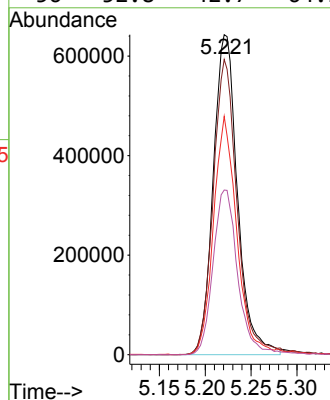
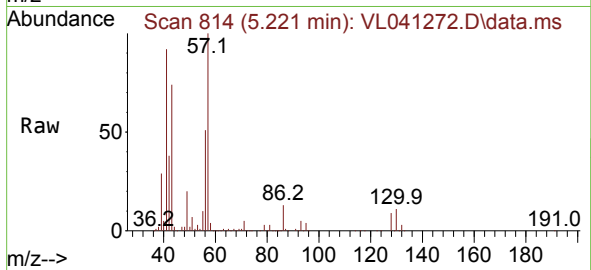




#26
Hexane
Concen: 12.723 ppbv
RT: 5.221 min Scan# 810
Delta R.T. -0.000 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

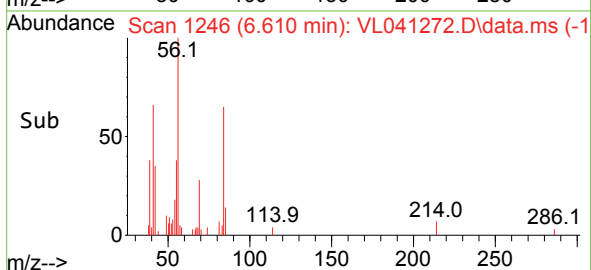
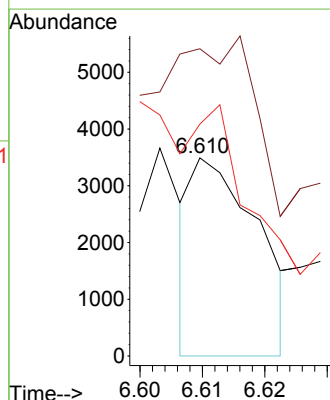
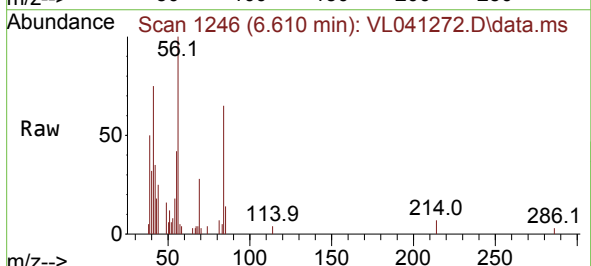
Instrument :
MSVOA_L
ClientSampleId :
OA1

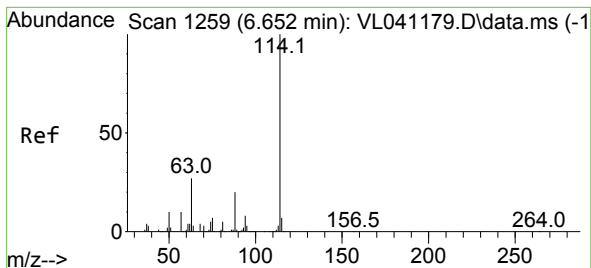
Tgt Ion: 57 Resp: 1183341
Ion Ratio Lower Upper
57 100
41 92.5 75.8 113.8
43 72.9 187.0 280.4#
56 52.8 42.7 64.1



#30
Cyclohexane
Concen: 0.035 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. 0.003 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

Tgt Ion: 84 Resp: 2552
Ion Ratio Lower Upper
84 100
56 0.0 116.8 175.2#
41 0.0 73.8 110.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 114

Delta R.T. -0.000 min

Lab File: VL041272.D

Acq: 21 May 2024 19:37

Instrument :

MSVOA_L

ClientSampleId :

OA1

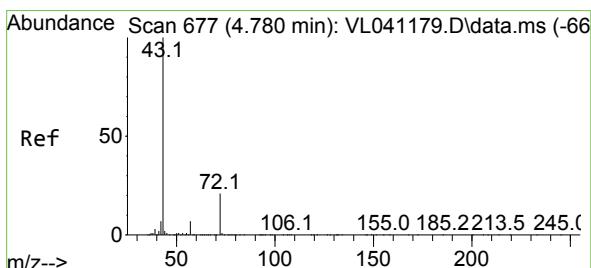
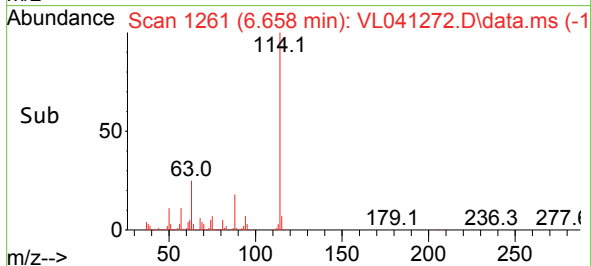
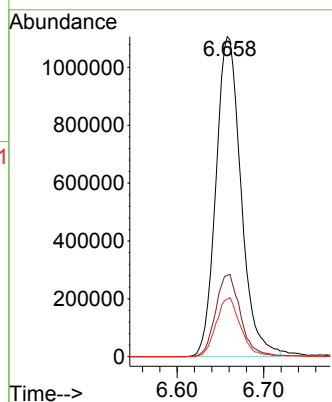
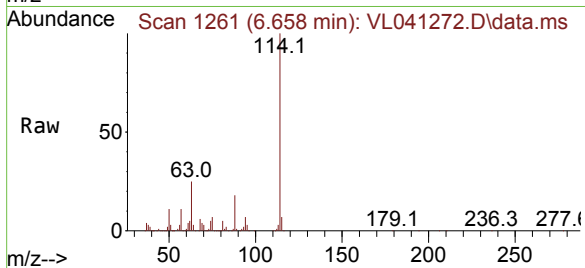
Tgt Ion:114 Resp: 2227397

Ion Ratio Lower Upper

114 100

63 26.0 21.8 32.6

88 18.3 15.2 22.8



#34

2-Butanone

Concen: 0.758 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.009 min

Lab File: VL041272.D

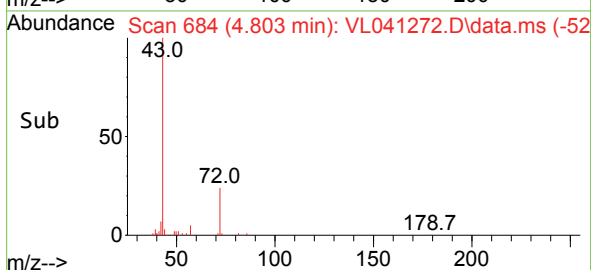
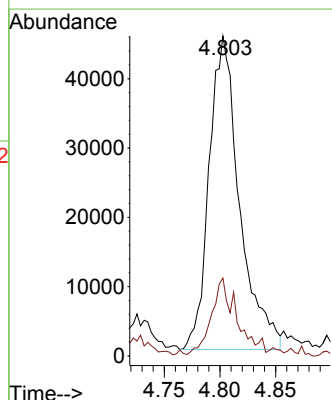
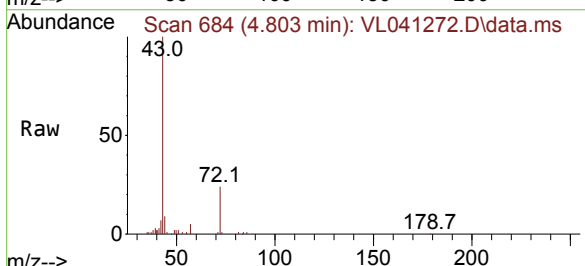
Acq: 21 May 2024 19:37

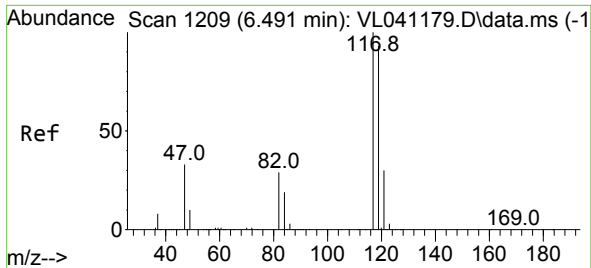
Tgt Ion: 43 Resp: 85959

Ion Ratio Lower Upper

43 100

72 22.5 17.3 25.9

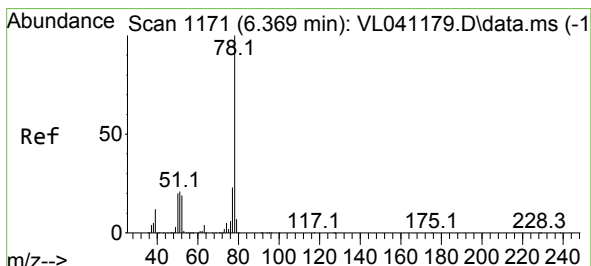
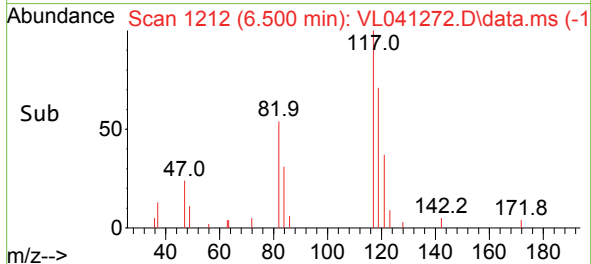
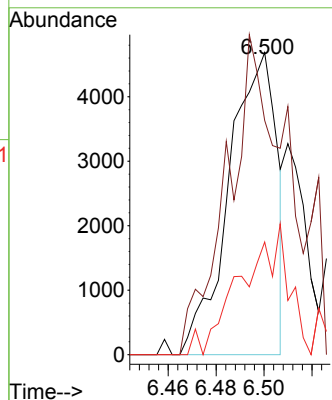
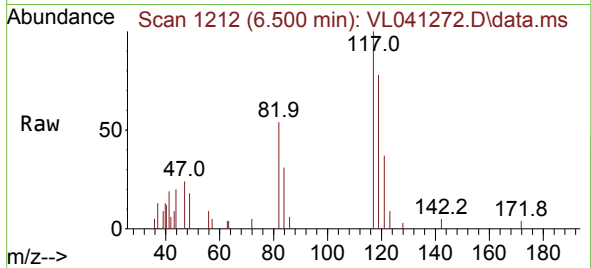




#35
Carbon Tetrachloride
Concen: 0.052 ppbv
RT: 6.500 min Scan# 1173
Delta R.T. 0.003 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

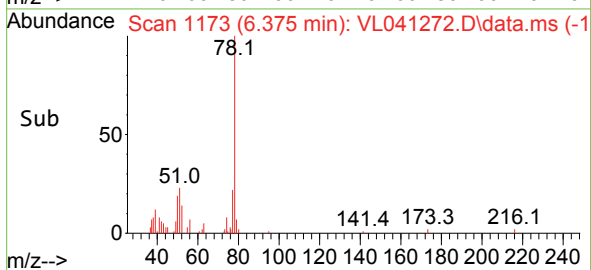
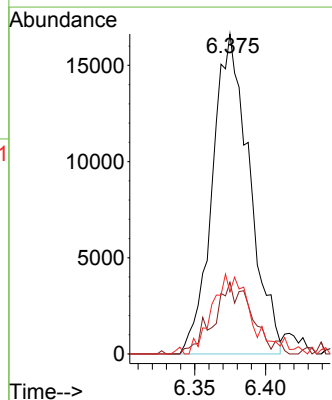
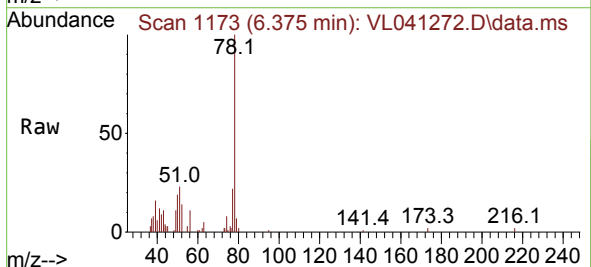
Instrument :
MSVOA_L
ClientSampleId :
OA1

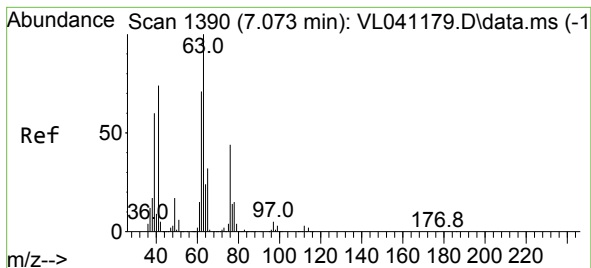
Tgt Ion:117 Resp: 6453
Ion Ratio Lower Upper
117 100
119 77.6 74.3 111.5
121 37.3 23.8 35.8#



#36
Benzene
Concen: 0.162 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

Tgt Ion: 78 Resp: 30231
Ion Ratio Lower Upper
78 100
77 22.4 18.3 27.5
50 17.2 15.9 23.9





#39

1,2-Dichloropropane

Concen: 7.935 ppbv

RT: 6.661 min Scan# 1

Delta R.T. -0.415 min

Lab File: VL041272.D

Acq: 21 May 2024 19:37

Instrument :

MSVOA_L

ClientSampleId :

OA1

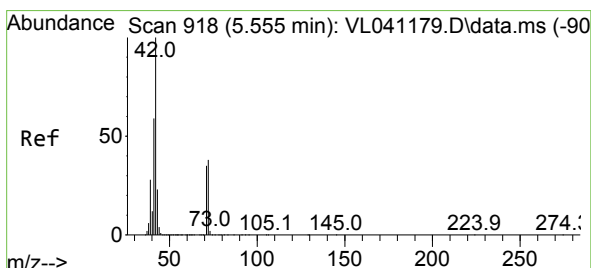
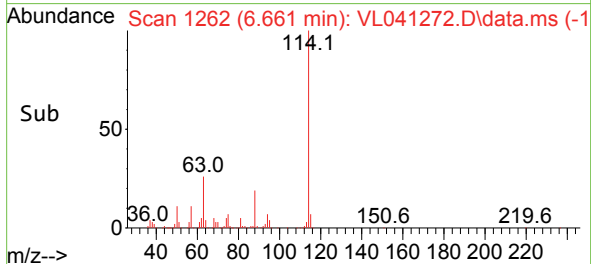
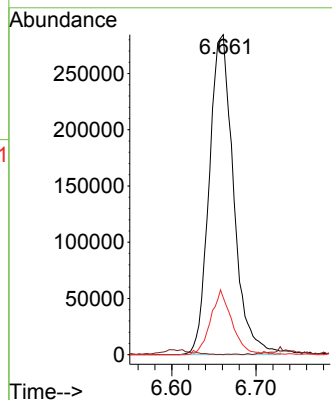
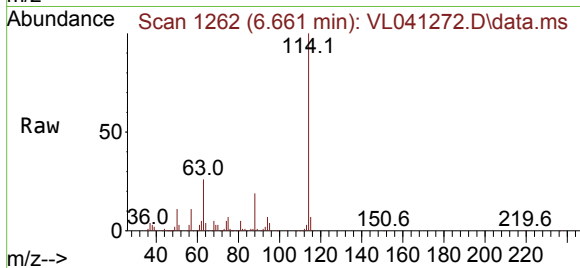
Tgt Ion: 63 Resp: 571589

Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 17.9 56.8 85.2#



#41

Tetrahydrofuran

Concen: 5.383 ppbv

RT: 5.221 min Scan# 814

Delta R.T. -0.338 min

Lab File: VL041272.D

Acq: 21 May 2024 19:37

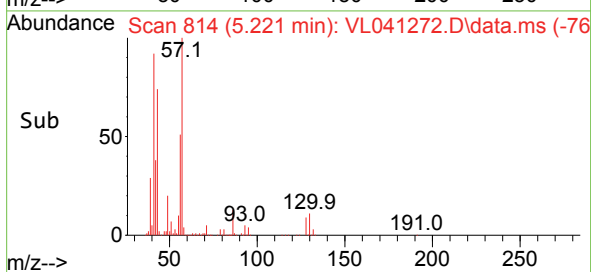
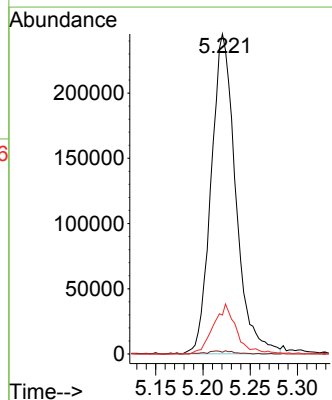
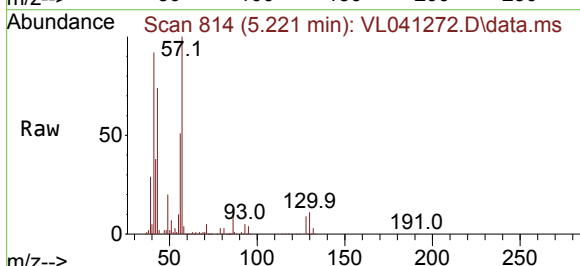
Tgt Ion: 42 Resp: 441811

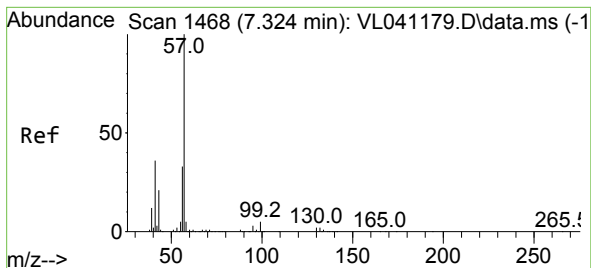
Ion Ratio Lower Upper

42 100

72 1.1 29.4 44.0#

71 15.1 29.1 43.7#





#44

2,2,4-Trimethylpentane

Concen: 0.157 ppbv

RT: 7.333 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VL041272.D

Acq: 21 May 2024 19:37

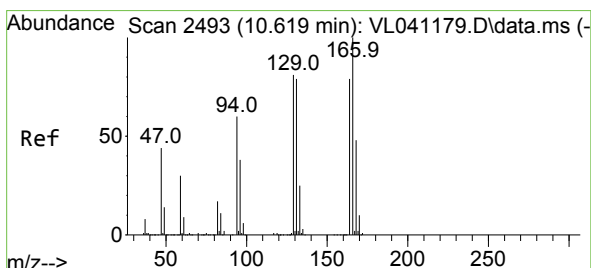
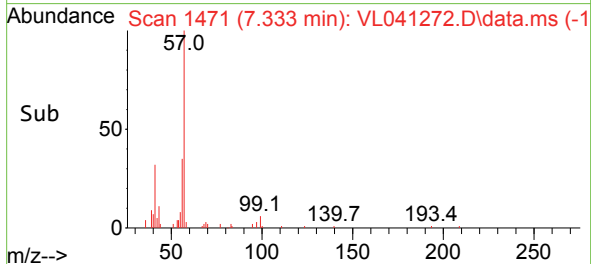
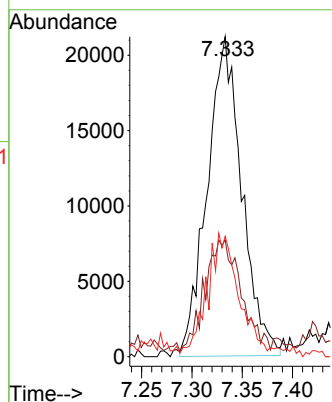
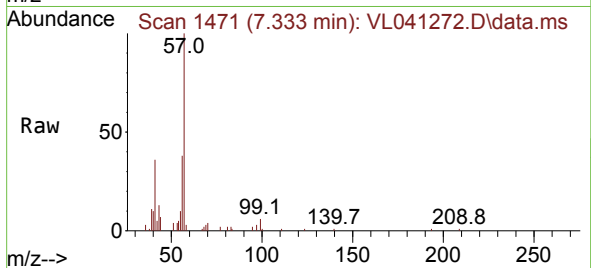
Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 57	Resp: 50665
Ion Ratio	Lower Upper
57 100	
41 44.5	29.5 44.3#
56 38.7	25.3 37.9#



#52

Tetrachloroethene

Concen: 0.207 ppbv

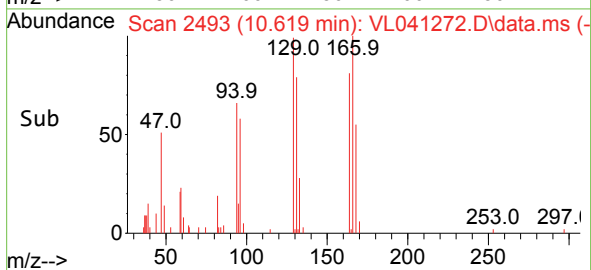
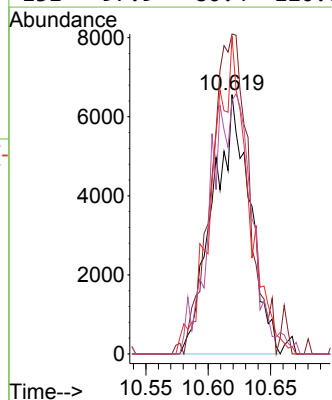
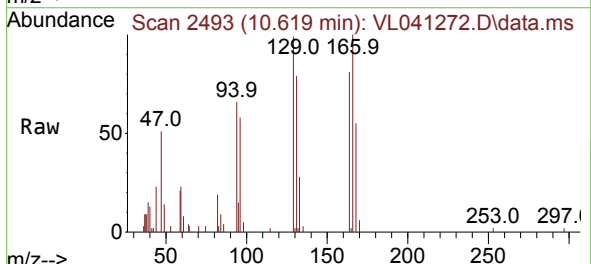
RT: 10.619 min Scan# 2493

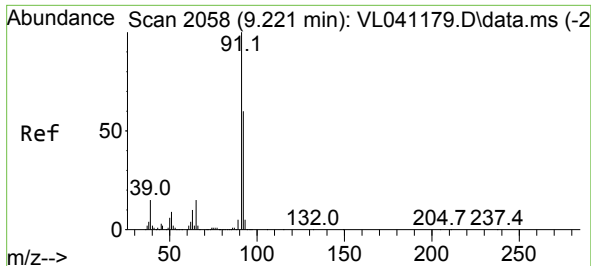
Delta R.T. 0.003 min

Lab File: VL041272.D

Acq: 21 May 2024 19:37

Tgt Ion: 164	Resp: 13611
Ion Ratio	Lower Upper
164 100	
166 119.3	101.1 151.7
129 116.5	81.7 122.5
131 97.9	80.4 120.6

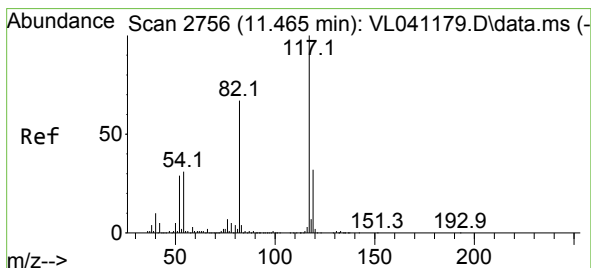
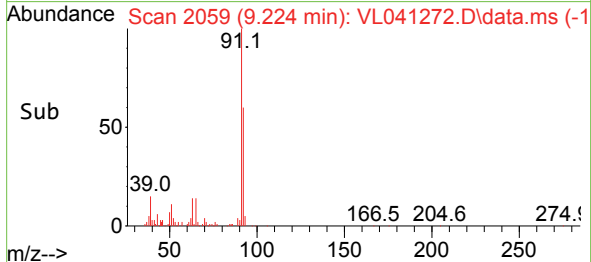
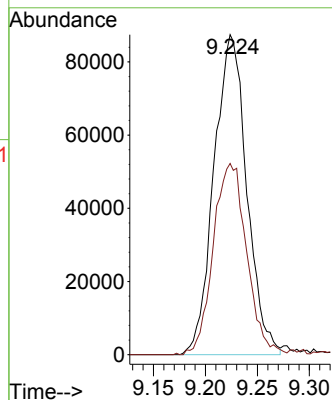
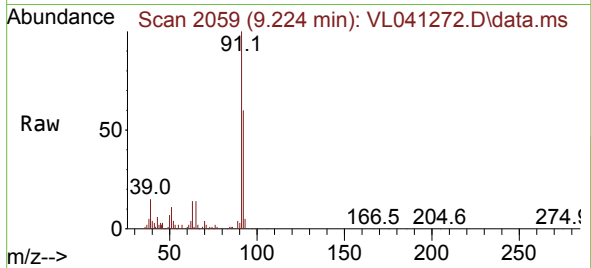




#53
Toluene
Concen: 0.885 ppbv
RT: 9.224 min Scan# 2058
Delta R.T. 0.003 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

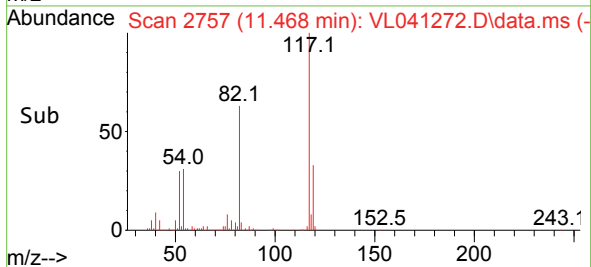
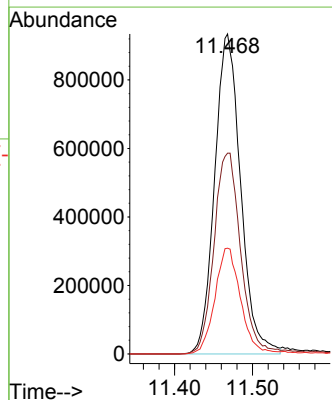
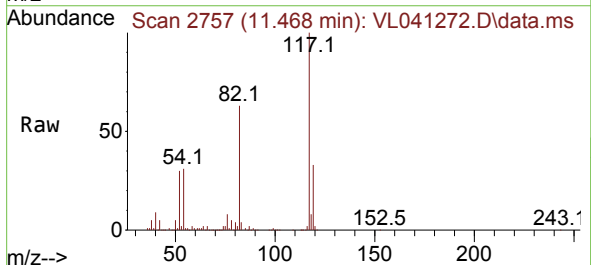
Instrument :
MSVOA_L
ClientSampleId :
OA1

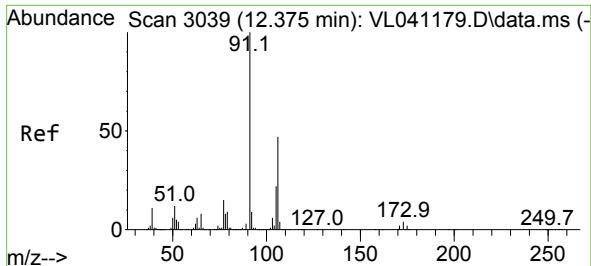
Tgt Ion: 91 Resp: 191842
Ion Ratio Lower Upper
91 100
92 61.4 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.003 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

Tgt Ion: 117 Resp: 2165747
Ion Ratio Lower Upper
117 100
82 66.1 53.6 80.4
119 33.6 27.2 40.8





#59

m/p-Xylene

Concen: 0.066 ppbv

RT: 12.371 min Scan# 3038

Delta R.T. 0.006 min

Lab File: VL041272.D

Acq: 21 May 2024 19:37

Instrument :

MSVOA_L

ClientSampleId :

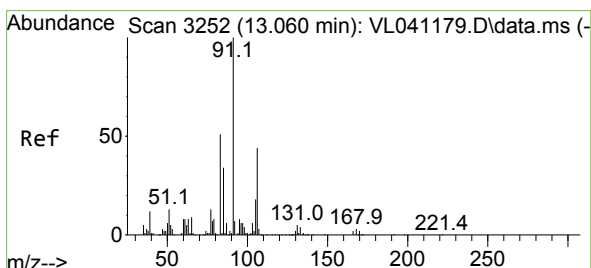
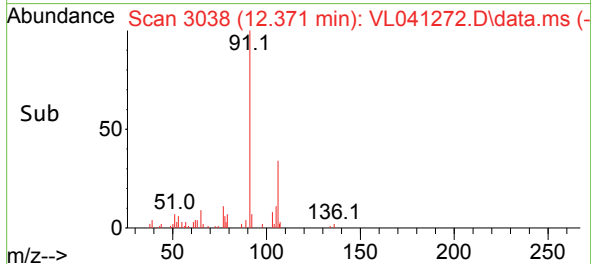
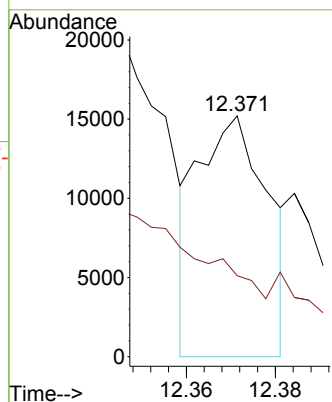
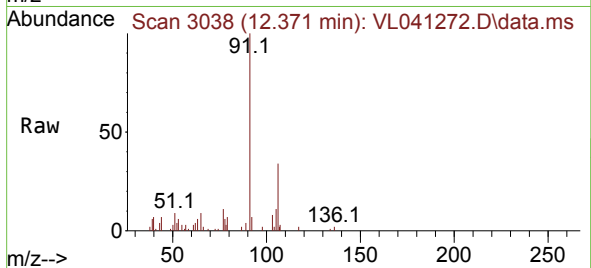
OA1

Tgt Ion: 91 Resp: 16515

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#



#60

o-Xylene

Concen: 0.060 ppbv

RT: 13.056 min Scan# 3251

Delta R.T. -0.000 min

Lab File: VL041272.D

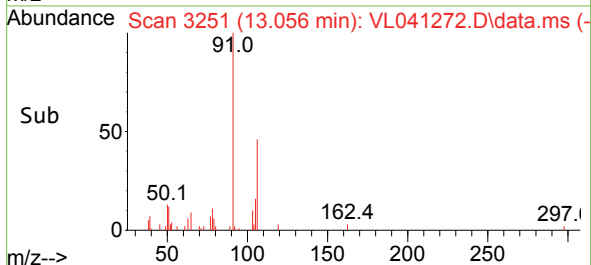
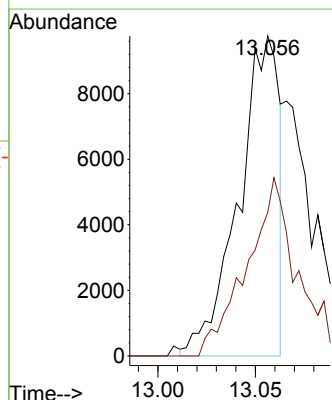
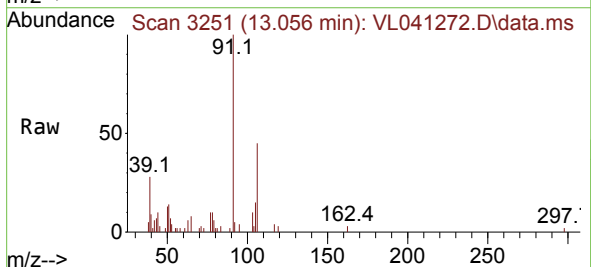
Acq: 21 May 2024 19:37

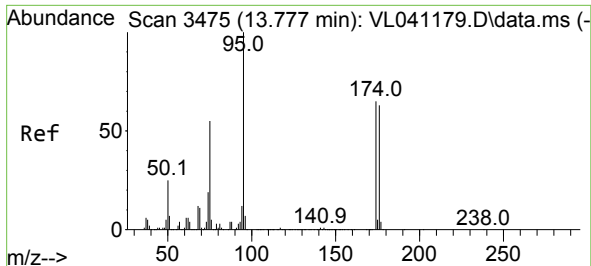
Tgt Ion: 91 Resp: 14085

Ion Ratio Lower Upper

91 100

106 69.9 22.4 67.3#

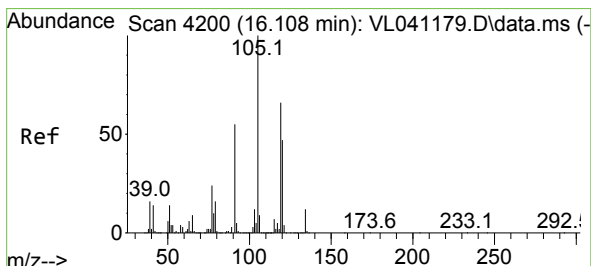
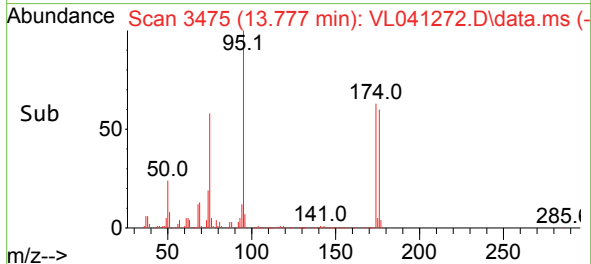
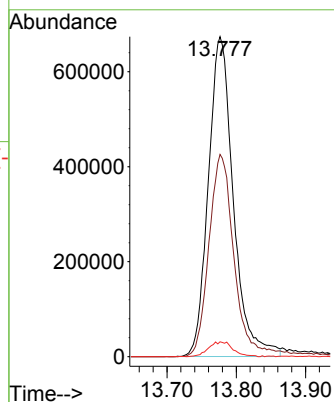
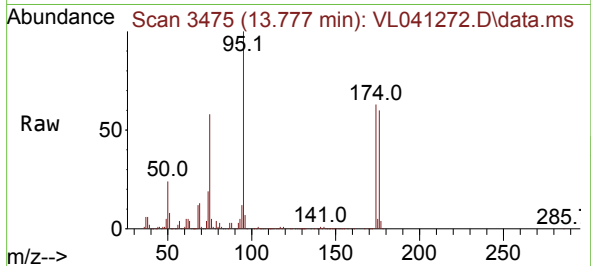




#68
1-Bromo-4-Fluorobenzene
Concen: 10.314 ppbv
RT: 13.777 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 95 Resp: 1686330
Ion Ratio Lower Upper
95 100
174 65.6 53.6 80.4
175 4.7 4.2 6.4



#74
1,2,4-Trimethylbenzene
Concen: 0.088 ppbv
RT: 16.114 min Scan# 4202
Delta R.T. 0.009 min
Lab File: VL041272.D
Acq: 21 May 2024 19:37

Tgt Ion: 105 Resp: 23056
Ion Ratio Lower Upper
105 100
120 39.3 37.8 56.6
91 13.5 44.3 66.5#
77 18.0 19.0 28.4#

