

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041323\
 Data File : VL040362.D
 Acq On : 13 Apr 2023 16:27
 Operator : SY/MD
 Sample : VL0413ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0413ABL01

Quant Time: Apr 14 08:33:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.195	49	955190	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2441268	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2172121	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	1765531	9.829	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.716	85	165	0.001	ppbv	# 41
3) Chlorodifluoromethane	2.684	51	236	0.002	ppbv	# 57
4) Chloromethane	2.803	50	553	0.007	ppbv	# 43
6) Bromomethane	3.118	94	71	0.003	ppbv	# 4
7) Chloroethane	3.185	64	136	0.006	ppbv	# 40
8) Dichlorotetrafluoroethane	2.726	85	88	0.001	ppbv	# 19
9) Propene	2.697	41	7122	0.144	ppbv	# 80
10) Heptane	7.594	43	232	0.002	ppbv	# 25
11) Trichlorofluoromethane	3.648	101	90	0.001	ppbv	# 17
12) 1,1,2-Trichlorotrifluo...	3.787	101	84	0.001	ppbv	# 16
13) Ethanol	3.237	45	204	0.050	ppbv	# 37
15) Acetone	3.484	43	8728	0.065	ppbv	# 47
16) 1,3-Butadiene	2.976	39	91	0.002	ppbv	# 6
17) tert-Butyl alcohol	3.893	59	189	0.002	ppbv	# 72
18) 1,1-Dichloroethene	3.874	96	53	0.001	ppbv	# 1
19) Isopropyl Alcohol	3.558	45	229	0.004	ppbv	# 90
20) Methylene Chloride	3.931	84	6344	0.117	ppbv	# 70
21) Allyl Chloride	3.986	41	139	0.002	ppbv	# 1
22) trans-1,2-Dichloroethene	4.439	96	66	0.001	ppbv	# 1
23) Vinyl Acetate	4.626	43	1047	0.030	ppbv	# 56
24) 1,1-Dichloroethane	4.558	63	225	0.002	ppbv	# 90
25) Ethyl Acetate	5.211	43	467	0.002	ppbv	# 74
26) Hexane	5.221	57	1147	0.012	ppbv	# 31
27) Carbon Disulfide	4.526	76	398	0.003	ppbv	# 1
28) Methyl tert-Butyl Ether	4.552	73	95	0.001	ppbv	# 52
29) Chloroform	5.269	83	252	0.001	ppbv	# 91
30) Cyclohexane	6.648	84	5451	0.073	ppbv	# 1
34) 2-Butanone	4.780	43	34	0.000	ppbv	# 53
36) Benzene	6.369	78	61	0.000	ppbv	# 1
38) Trichloroethene	7.401	130	84	0.001	ppbv	# 1
39) 1,2-Dichloropropane	6.658	63	630348	8.043	ppbv	# 25
40) 1,4-Dioxane	7.153	88	92	0.003	ppbv	# 1
41) Tetrahydrofuran	5.581	42	71	0.001	ppbv	# 34
42) Bromodichloromethane	7.176	83	114	0.001	ppbv	# 25
43) Methyl Methacrylate	6.999	69	68	0.001	ppbv	# 82
44) 2,2,4-Trimethylpentane	7.234	57	29	0.000	ppbv	# 1
45) t-1,3-Dichloropropene	8.970	75	87	0.001	ppbv	# 41
46) cis-1,3-Dichloropropene	8.442	75	86	0.001	ppbv	# 25
47) 1,1,2-Trichloroethane	8.934	97	78	0.001	ppbv	# 13
50) 4-Methyl-2-Pentanone	8.192	43	146	0.001	ppbv	# 39
51) 2-Hexanone	9.623	43	218	0.001	ppbv	# 30
53) Toluene	9.230	91	34	0.000	ppbv	# 1
56) 1,1,1,2-Tetrachloroethane	11.150	131	67	0.001	ppbv	# 8

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041323\
 Data File : VL040362.D
 Acq On : 13 Apr 2023 16:27
 Operator : SY/MD
 Sample : VL0413ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0413ABL01

Quant Time: Apr 14 08:33:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

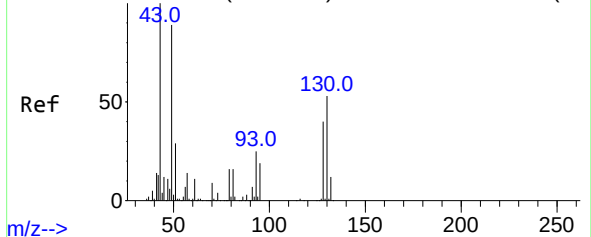
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
57) Chlorobenzene	11.471	112	121	0.001	ppbv	#	10
58) Ethyl Benzene	12.111	91	226	0.001	ppbv	#	45
59) m/p-Xylene	12.111	91	226	0.001	ppbv		96
62) Isopropylbenzene	13.786	105	617	0.002	ppbv		98
65) tert-Butylbenzene	16.114	119	35	0.000	ppbv	#	88
66) Benzyl Chloride	16.342	91	77	0.004	ppbv	#	45
67) sec-Butylbenzene	16.693	105	71	0.000	ppbv	#	60
69) p-Isopropyltoluene	17.066	119	45	0.000	ppbv	#	46
70) n-Butylbenzene	17.918	91	86	0.000	ppbv	#	33
71) 2-Chlorotoluene	14.831	91	88	0.000	ppbv	#	45
72) 4-Ethyltoluene	15.378	105	157	0.001	ppbv	#	55
73) 1,3,5-Trimethylbenzene	15.378	105	157	0.001	ppbv	#	30
74) 1,2,4-Trimethylbenzene	16.127	105	78	0.000	ppbv	#	30
75) 1,3-Dichlorobenzene	16.346	146	34	0.000	ppbv	#	22
76) 1,4-Dichlorobenzene	16.397	146	86	0.001	ppbv	#	1
77) 1,2-Dichlorobenzene	17.185	146	93	0.001	ppbv	#	12
78) Hexachloro-1,3-Butadiene	22.661	225	265	0.002	ppbv	#	18
79) Naphthalene	21.407	128	44	0.000	ppbv	#	69
80) Naphthalene,2-methyl-	24.542	142	150	0.003	ppbv	#	17
81) 1,2,4-Trichlorobenzene	21.175	180	141	0.001	ppbv	#	1

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

Quant Time: Apr 14 08:33:35 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Apr 13 14:37:02 2023
Response via : Initial Calibration



Abundance Scan 804 (5.189 min): VL040354.D\data.ms (-78)



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.195 min Scan# 80

Delta R.T. 0.006 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

VL0413ABL01

Tgt Ion: 49 Resp: 955190

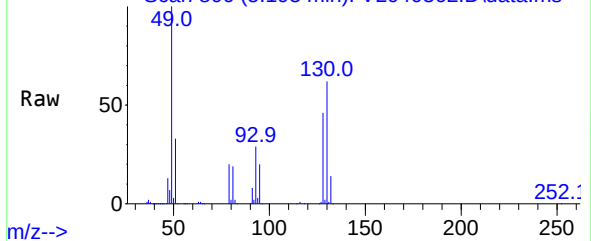
Ion Ratio Lower Upper

49 100

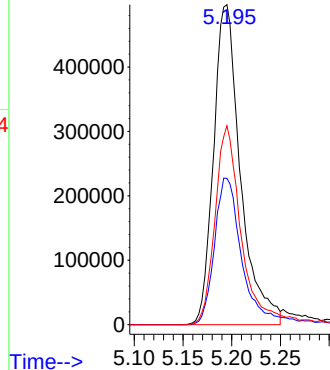
128 48.7 23.7 71.1

130 63.4 29.9 89.8

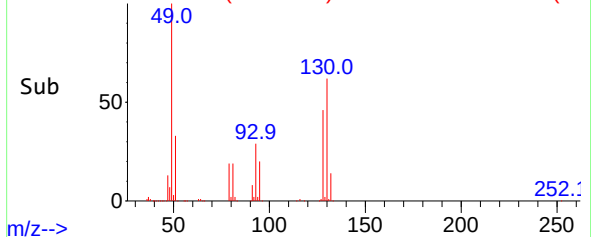
Abundance Scan 806 (5.195 min): VL040362.D\data.ms



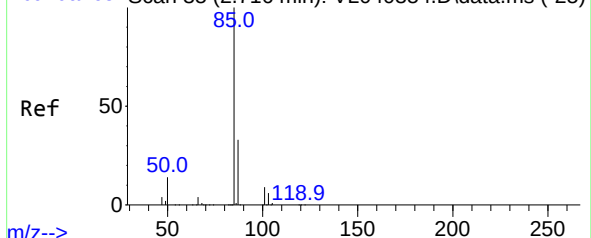
Abundance



Abundance Scan 806 (5.195 min): VL040362.D\data.ms (-64)



Abundance Scan 35 (2.716 min): VL040354.D\data.ms (-25)



#2

Dichlorodifluoromethane

Concen: 0.001 ppbv

RT: 2.716 min Scan# 35

Delta R.T. 0.000 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

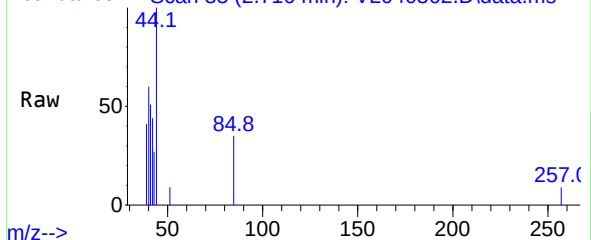
Tgt Ion: 85 Resp: 165

Ion Ratio Lower Upper

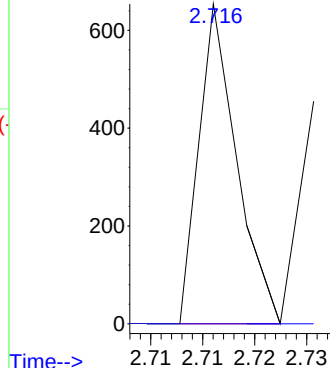
85 100

87 0.0 26.6 40.0#

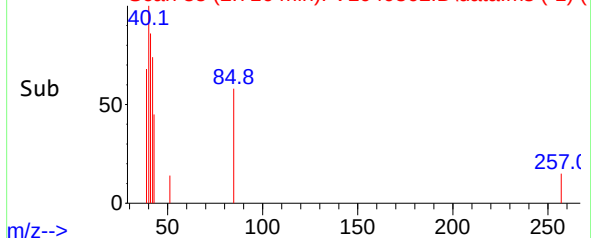
Abundance Scan 35 (2.716 min): VL040362.D\data.ms

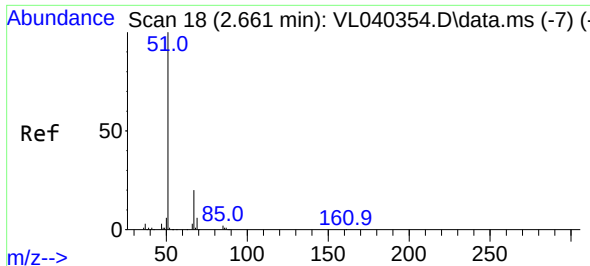


Abundance



Abundance Scan 35 (2.716 min): VL040362.D\data.ms (-1)

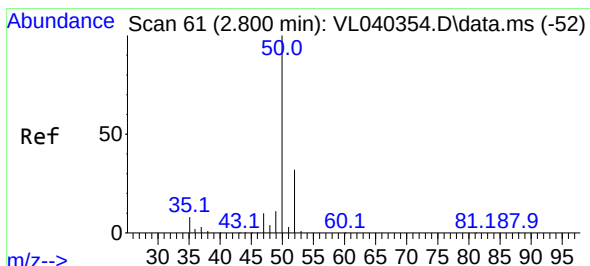
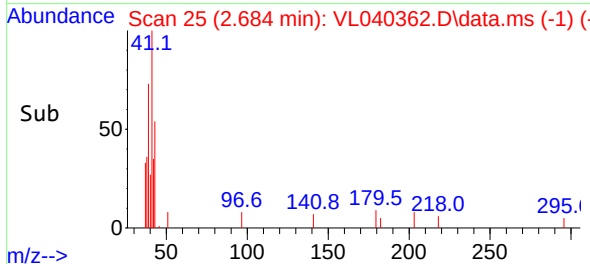
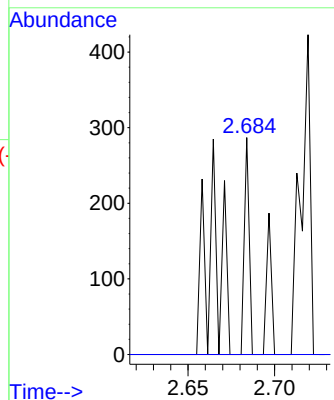
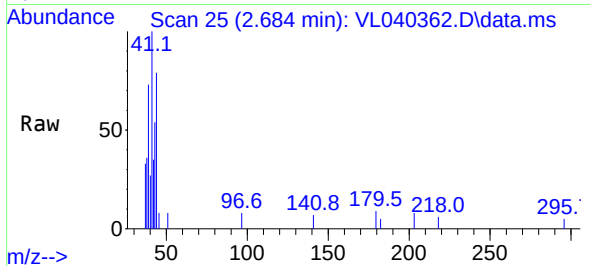




#3
Chlorodifluoromethane
Concen: 0.002 ppbv
RT: 2.684 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

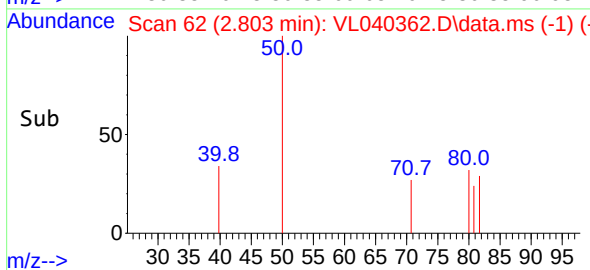
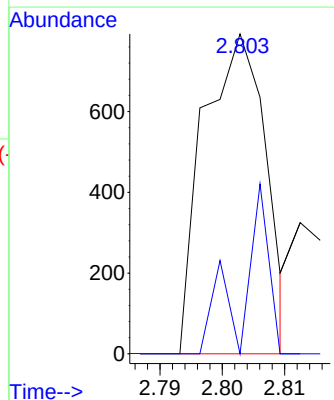
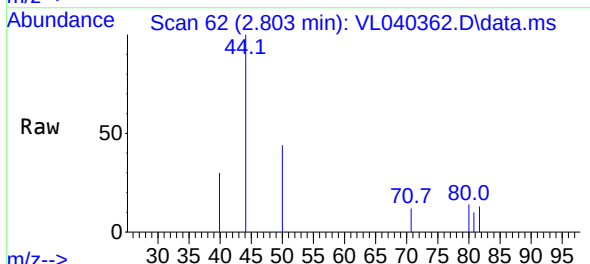
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

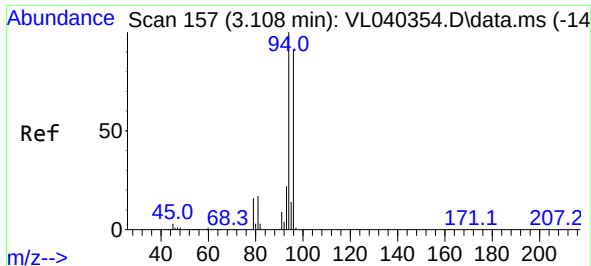
Tgt Ion: 51 Resp: 236
Ion Ratio Lower Upper
51 100
67 0.0 15.5 23.3#



#4
Chloromethane
Concen: 0.007 ppbv
RT: 2.803 min Scan# 62
Delta R.T. 0.003 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 50 Resp: 553
Ion Ratio Lower Upper
50 100
52 0.0 25.3 37.9#

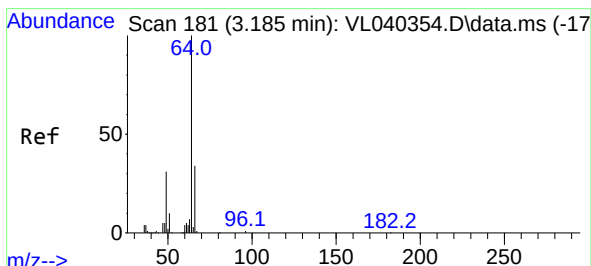
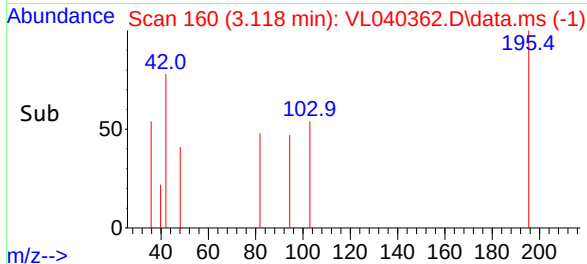
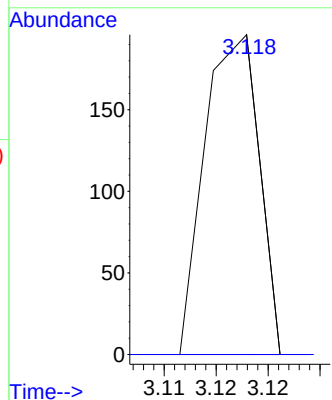
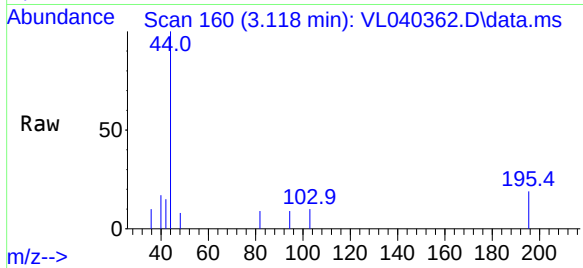




#6
Bromomethane
Concen: 0.003 ppbv
RT: 3.118 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

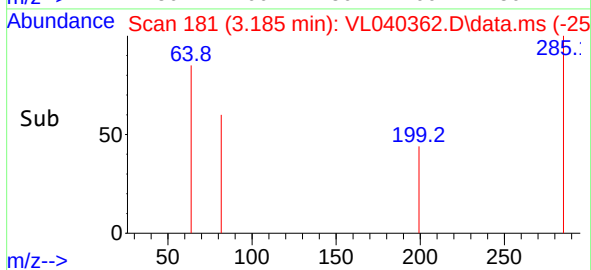
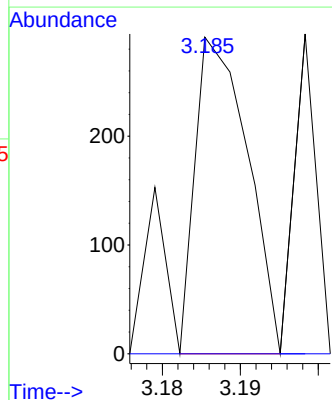
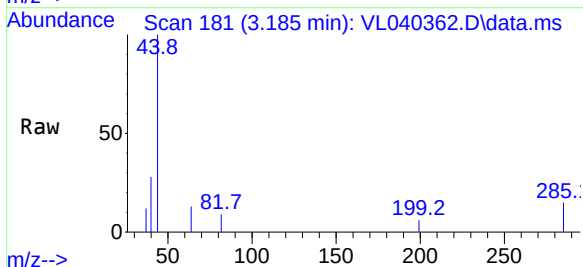
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

Tgt Ion: 94 Resp: 71
Ion Ratio Lower Upper
94 100
96 0.0 72.6 108.8#

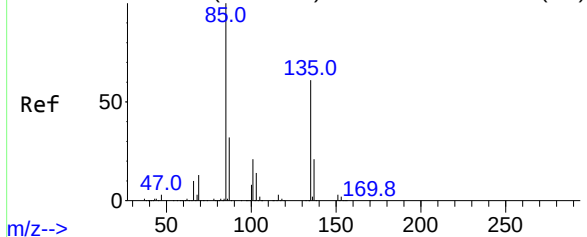


#7
Chloroethane
Concen: 0.006 ppbv
RT: 3.185 min Scan# 181
Delta R.T. 0.000 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 64 Resp: 136
Ion Ratio Lower Upper
64 100
66 0.0 27.5 41.3#



Abundance Scan 75 (2.845 min): VL040354.D\data.ms (-65)

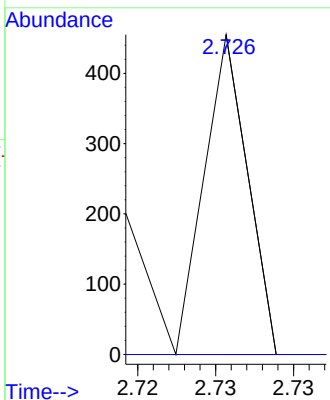
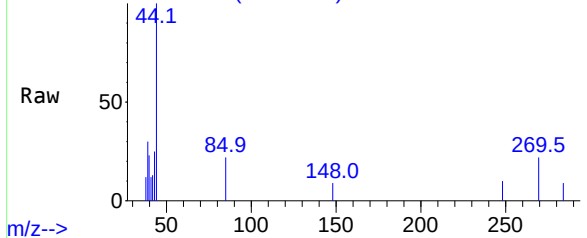


#8
Dichlorotetrafluoroethane
Concen: 0.001 ppbv
RT: 2.726 min Scan# 31
Delta R.T. -0.119 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

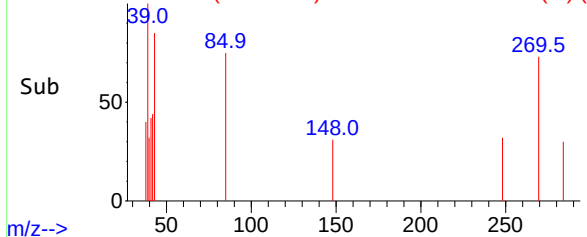
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

Tgt Ion: 85 Resp: 88
Ion Ratio Lower Upper
85 100
135 0.0 50.7 76.1#

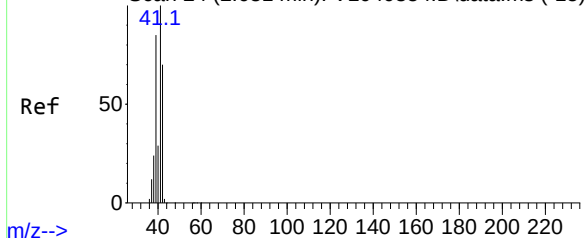
Abundance Scan 38 (2.726 min): VL040362.D\data.ms



Abundance Scan 38 (2.726 min): VL040362.D\data.ms (-1)



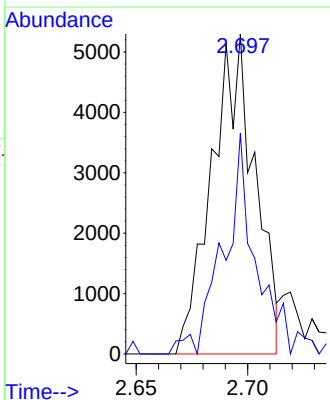
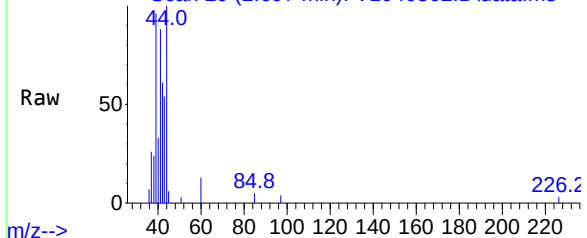
Abundance Scan 24 (2.681 min): VL040354.D\data.ms (-15)



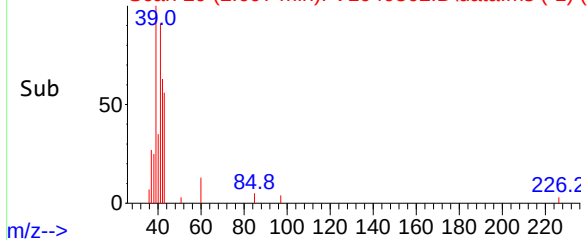
#9
Propene
Concen: 0.144 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.016 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

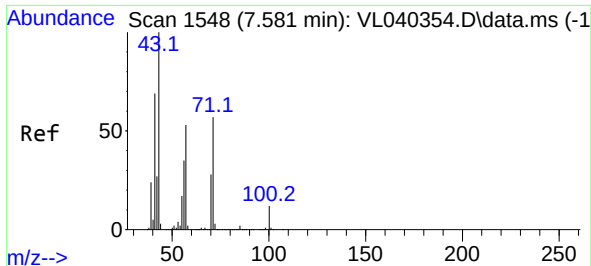
Tgt Ion: 41 Resp: 7122
Ion Ratio Lower Upper
41 100
42 54.0 56.5 84.7#

Abundance Scan 29 (2.697 min): VL040362.D\data.ms



Abundance Scan 29 (2.697 min): VL040362.D\data.ms (-1)





#10

Heptane

Concen: 0.002 ppbv

RT: 7.594 min Scan# 11

Delta R.T. 0.013 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

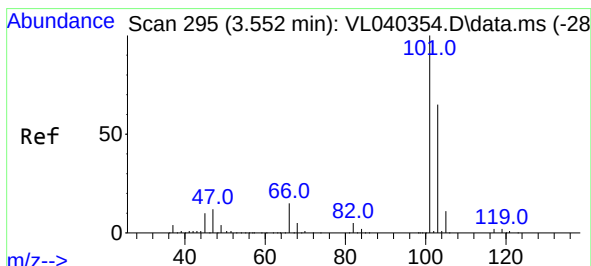
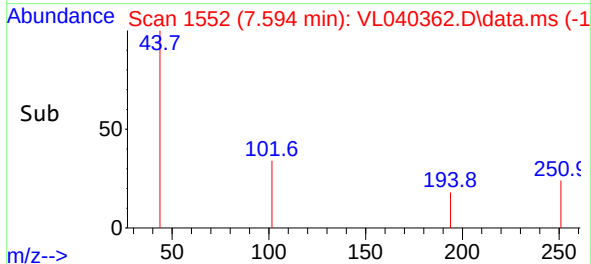
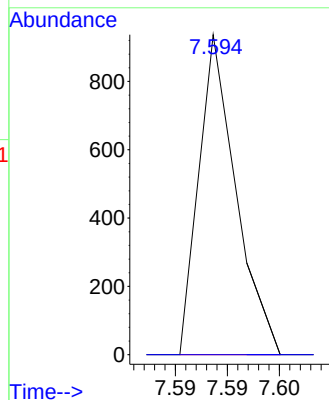
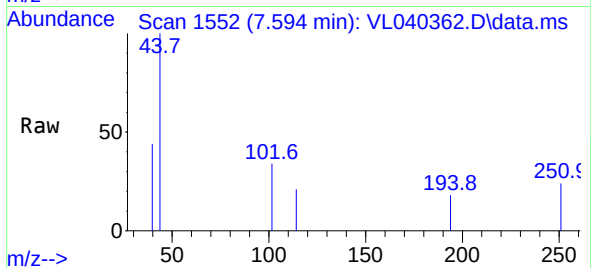
VL0413ABL01

Tgt Ion: 43 Resp: 232

Ion Ratio Lower Upper

43 100

57 0.0 42.2 63.4#



#11

Trichlorofluoromethane

Concen: 0.001 ppbv

RT: 3.648 min Scan# 325

Delta R.T. 0.097 min

Lab File: VL040362.D

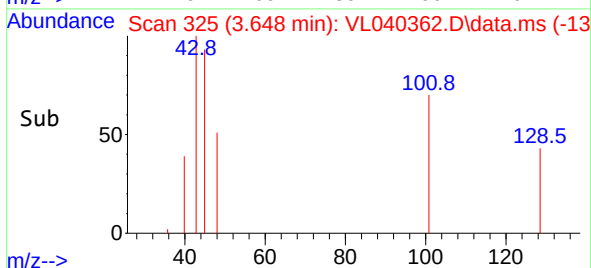
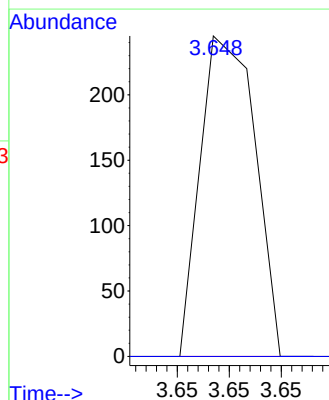
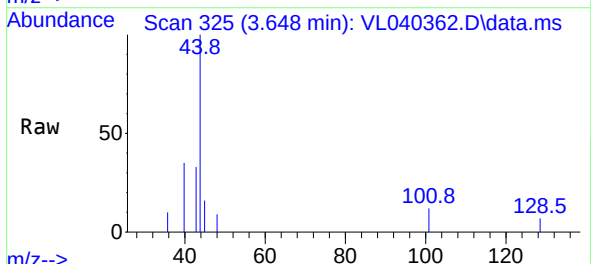
Acq: 13 Apr 2023 16:27

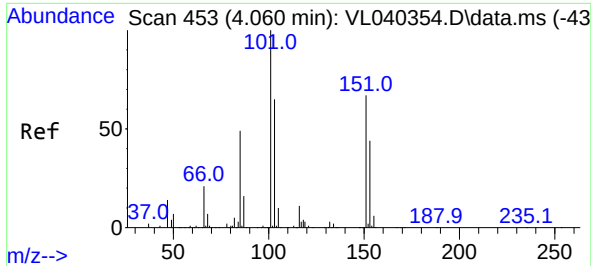
Tgt Ion: 101 Resp: 90

Ion Ratio Lower Upper

101 100

103 0.0 52.2 78.4#

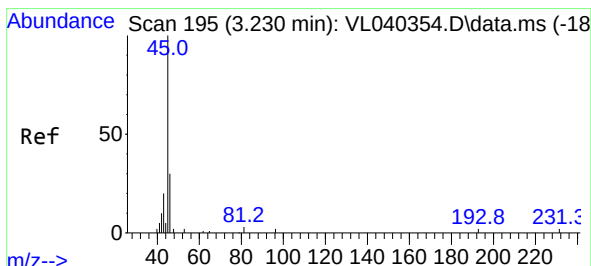
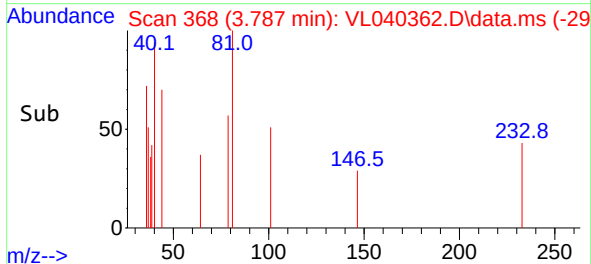
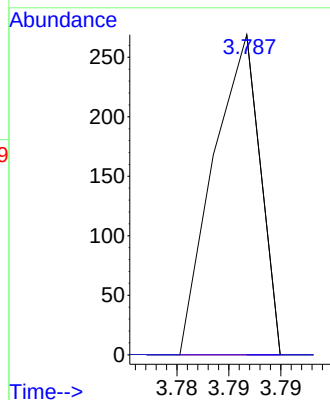
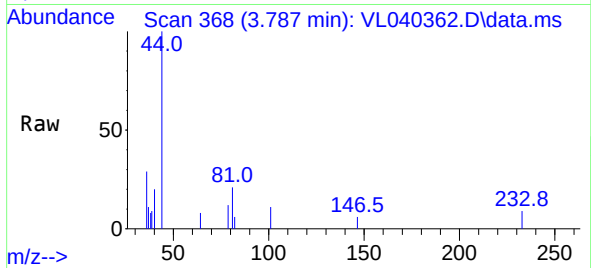




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.001 ppbv
RT: 3.787 min Scan# 30
Delta R.T. -0.273 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

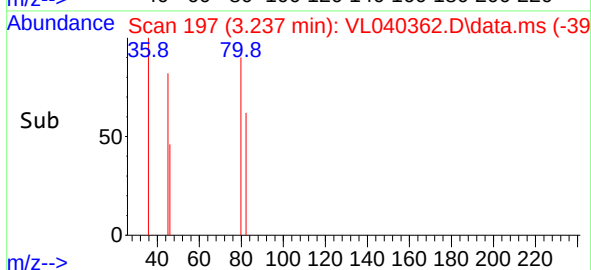
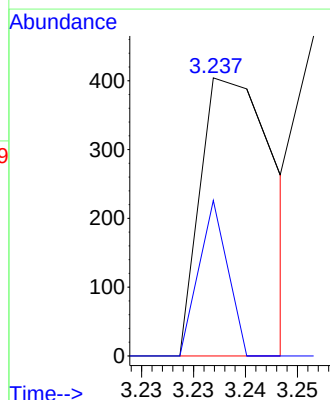
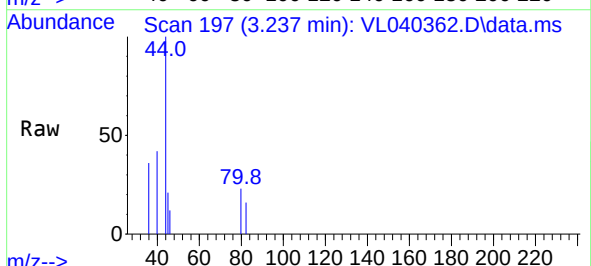
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

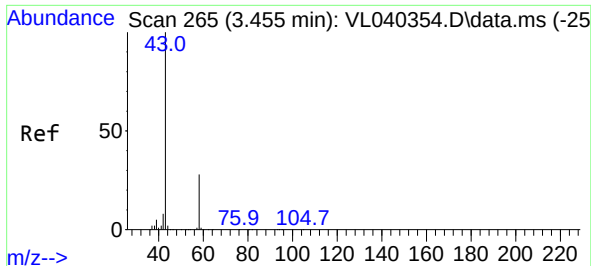
Tgt Ion:101 Resp: 84
Ion Ratio Lower Upper
101 100
151 0.0 54.7 82.1#



#13
Ethanol
Concen: 0.050 ppbv
RT: 3.237 min Scan# 197
Delta R.T. 0.006 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 45 Resp: 204
Ion Ratio Lower Upper
45 100
46 0.0 15.3 61.3#

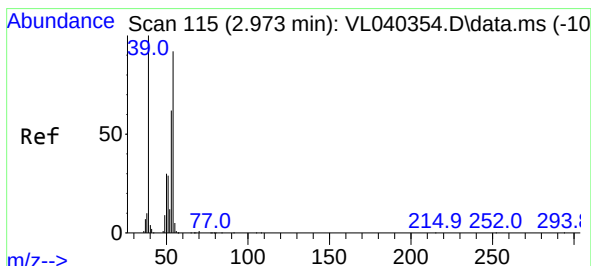
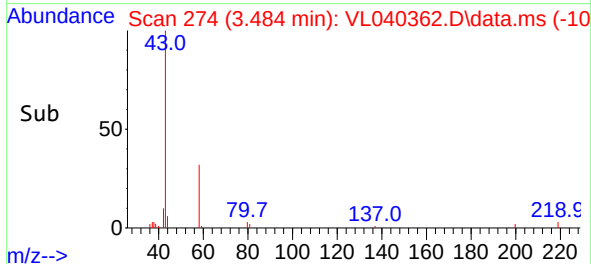
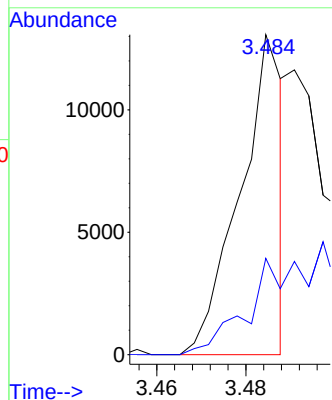
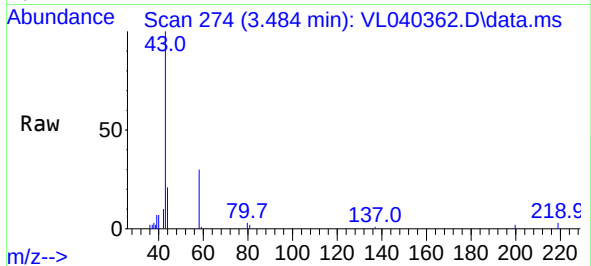




#15
Acetone
Concen: 0.065 ppbv
RT: 3.484 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

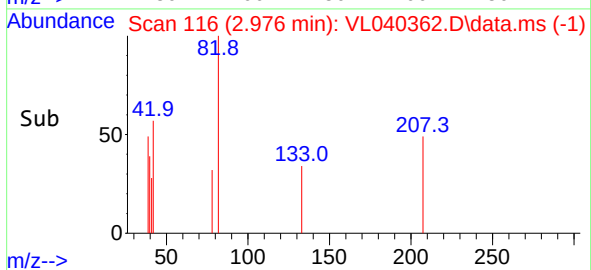
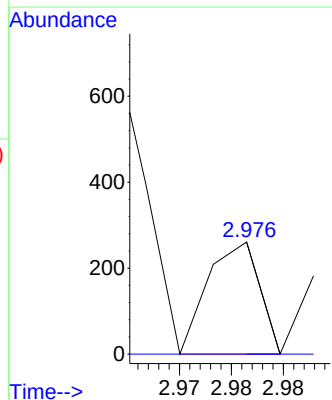
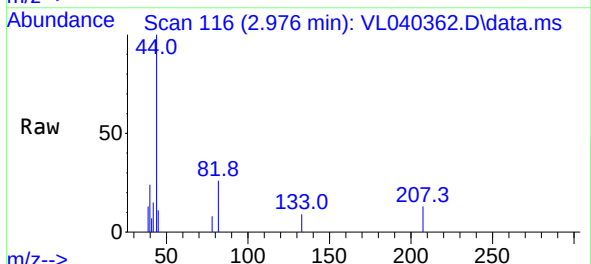
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

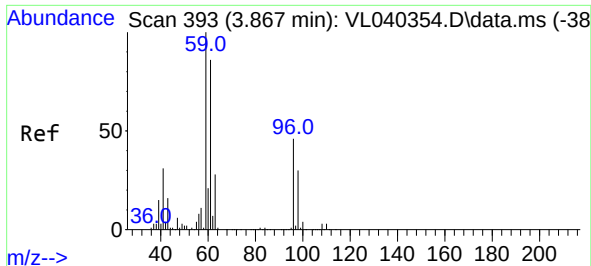
Tgt Ion: 43 Resp: 8728
Ion Ratio Lower Upper
43 100
58 0.0 22.2 33.2#



#16
1,3-Butadiene
Concen: 0.002 ppbv
RT: 2.976 min Scan# 116
Delta R.T. 0.003 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 39 Resp: 91
Ion Ratio Lower Upper
39 100
54 0.0 68.8 103.2#





#17

tert-Butyl alcohol

Concen: 0.002 ppbv

RT: 3.893 min Scan# 401

Delta R.T. 0.026 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

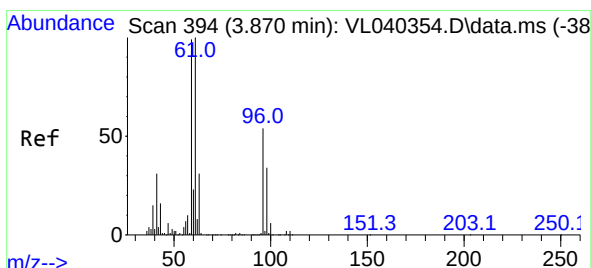
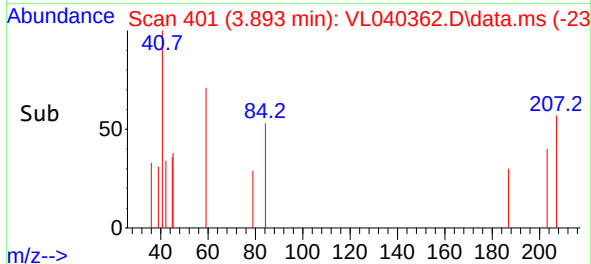
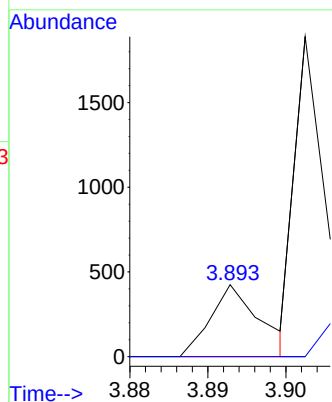
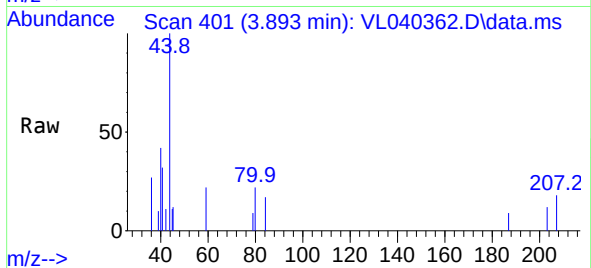
VL0413ABL01

Tgt Ion: 59 Resp: 189

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#18

1,1-Dichloroethene

Concen: 0.001 ppbv

RT: 3.874 min Scan# 395

Delta R.T. 0.003 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

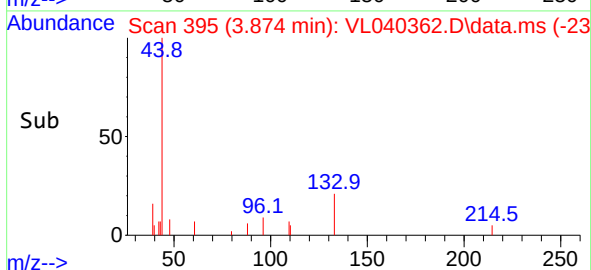
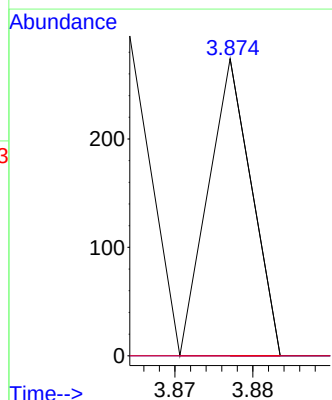
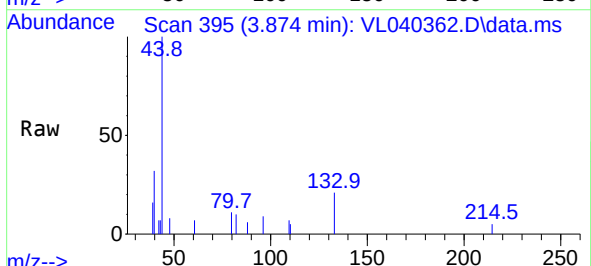
Tgt Ion: 96 Resp: 53

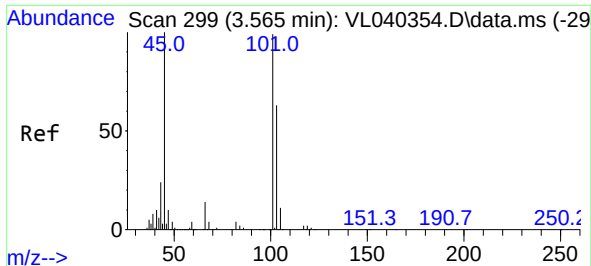
Ion Ratio Lower Upper

96 100

61 0.0 148.3 222.5#

98 0.0 49.8 74.8#





#19

Isopropyl Alcohol

Concen: 0.004 ppbv

RT: 3.558 min Scan# 299

Delta R.T. -0.006 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_1

ClientSampleId :

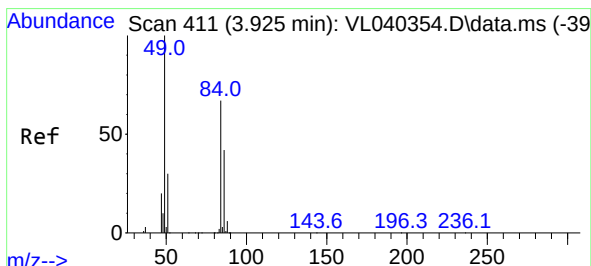
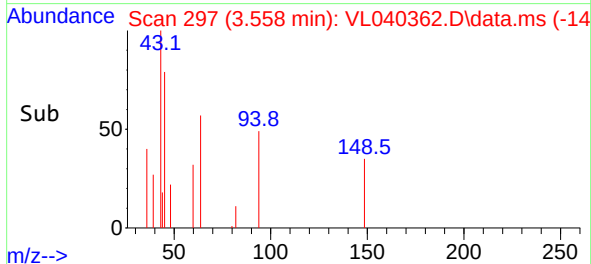
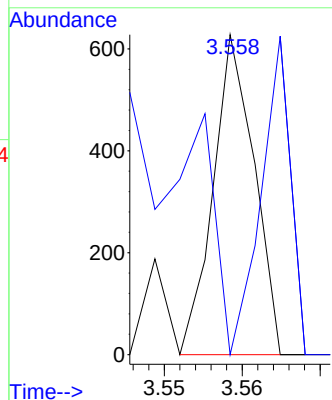
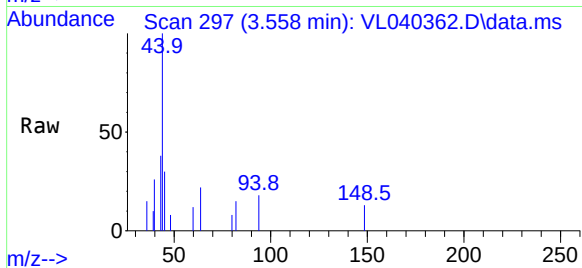
VL0413ABL01

Tgt Ion: 45 Resp: 229

Ion Ratio Lower Upper

45 100

58 0.0 2.6 4.0#



#20

Methylene Chloride

Concen: 0.117 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.006 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Tgt Ion: 84 Resp: 6344

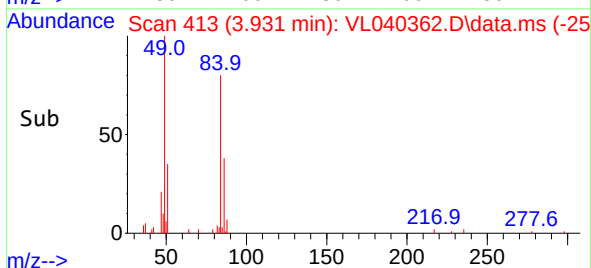
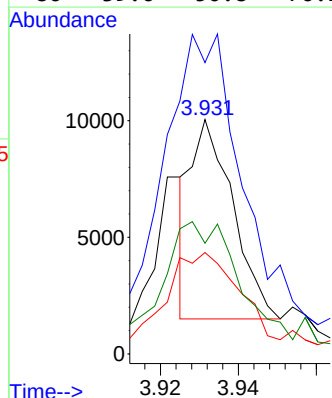
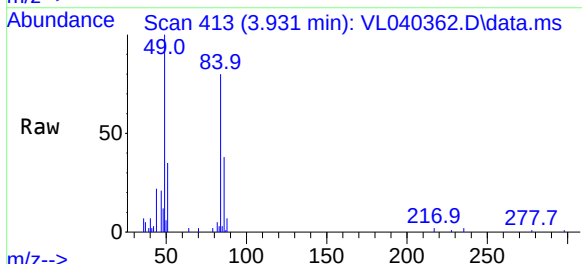
Ion Ratio Lower Upper

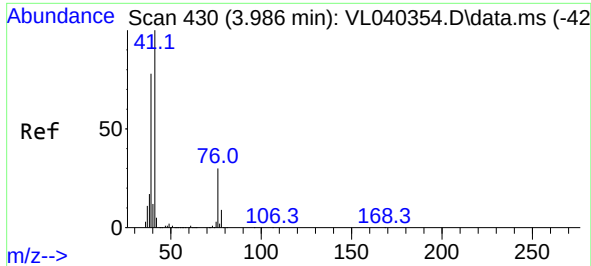
84 100

49 101.5 120.1 180.1#

51 43.7 36.3 54.5

86 39.6 50.8 76.2#





#21

Allyl Chloride

Concen: 0.002 ppbv

RT: 3.986 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

VL0413ABL01

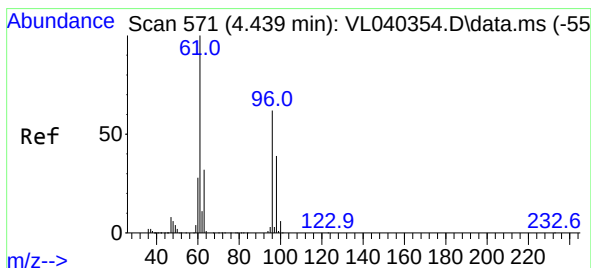
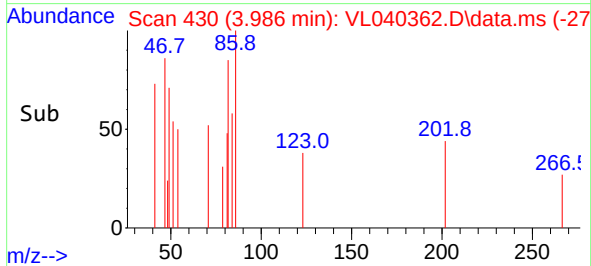
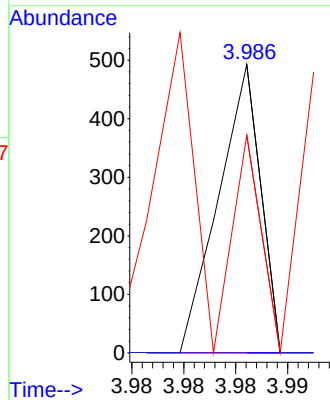
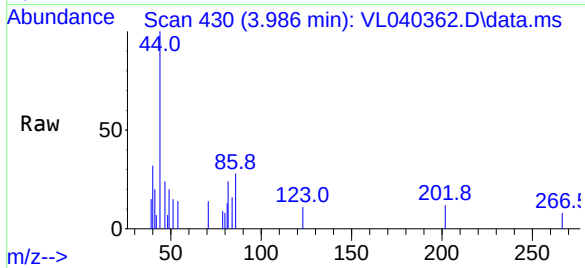
Tgt Ion: 41 Resp: 139

Ion Ratio Lower Upper

41 100

76 0.0 25.5 38.3#

39 356.8 64.0 96.0#



#22

trans-1,2-Dichloroethene

Concen: 0.001 ppbv

RT: 4.439 min Scan# 571

Delta R.T. 0.000 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

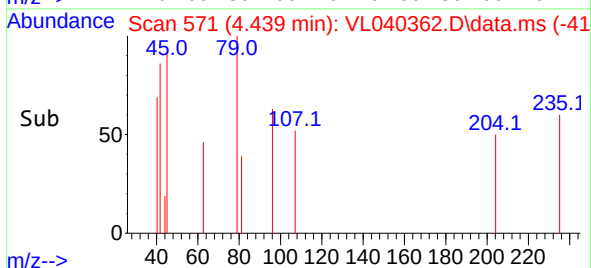
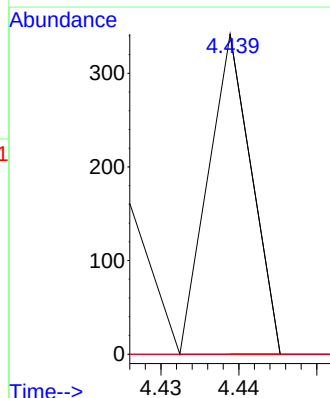
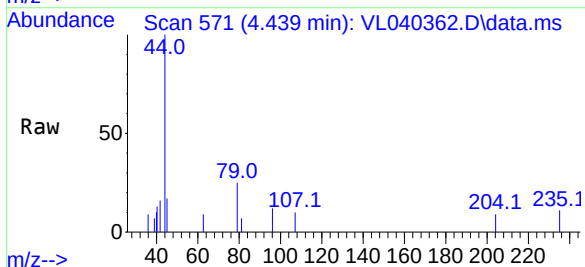
Tgt Ion: 96 Resp: 66

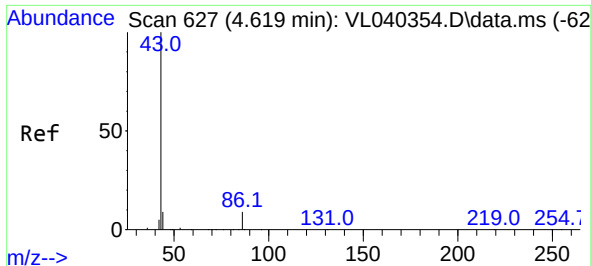
Ion Ratio Lower Upper

96 100

61 0.0 129.4 194.2#

98 0.0 51.0 76.4#

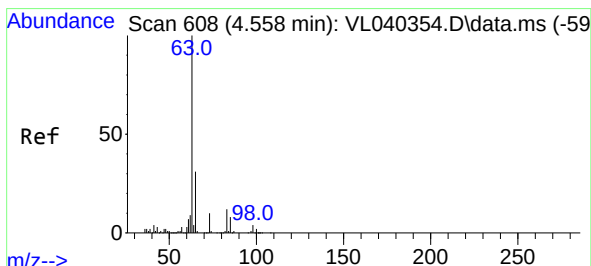
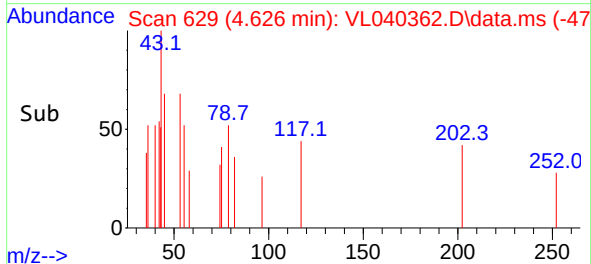
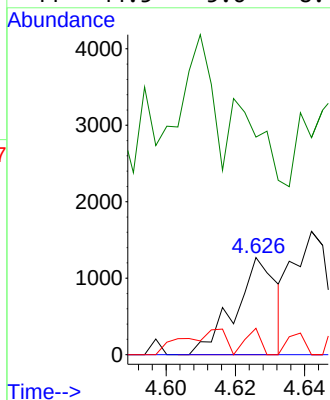
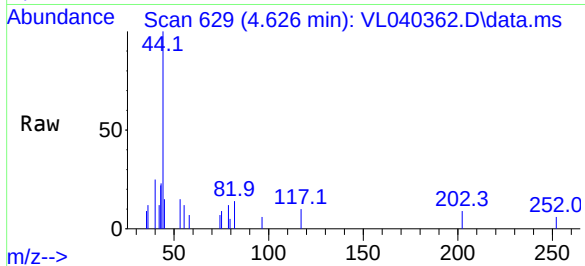




#23
 Vinyl Acetate
 Concen: 0.030 ppbv
 RT: 4.626 min Scan# 61
 Delta R.T. 0.006 min
 Lab File: VL040362.D
 Acq: 13 Apr 2023 16:27

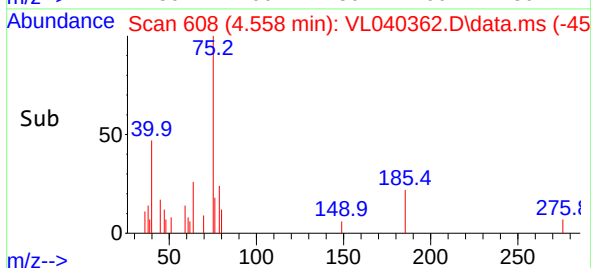
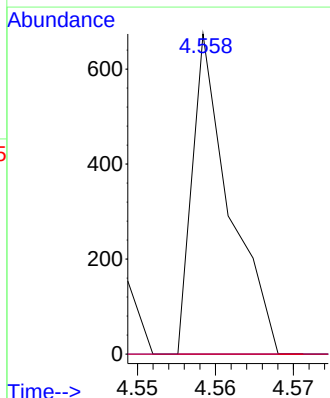
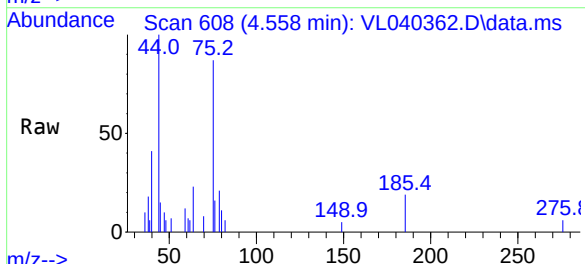
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0413ABL01

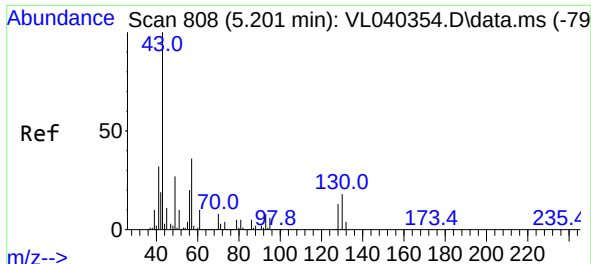
Tgt Ion: 43	Resp: 1047
Ion Ratio	Lower Upper
43 100	
86 0.0	6.0 9.0#
42 10.8	6.4 9.6#
44 44.5	5.6 8.4#



#24
 1,1-Dichloroethane
 Concen: 0.002 ppbv
 RT: 4.558 min Scan# 608
 Delta R.T. 0.000 min
 Lab File: VL040362.D
 Acq: 13 Apr 2023 16:27

Tgt Ion: 63	Resp:	225	
Ion Ratio	Lower	Upper	
63 100			
98 0.0	2.1	6.2#	
100 0.0	1.2	3.6#	





#25

Ethyl Acetate

Concen: 0.002 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.010 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

VL0413ABL01

Tgt Ion: 43 Resp: 467

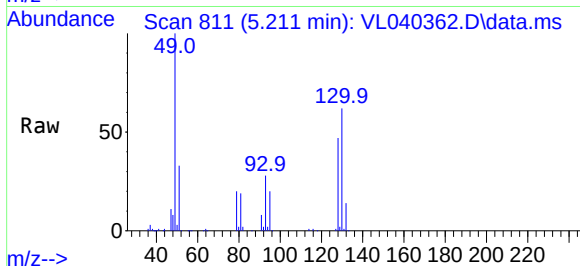
Ion Ratio Lower Upper

43 100

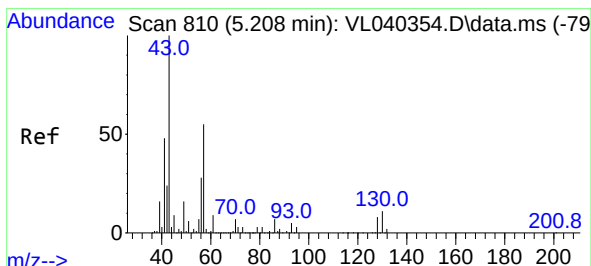
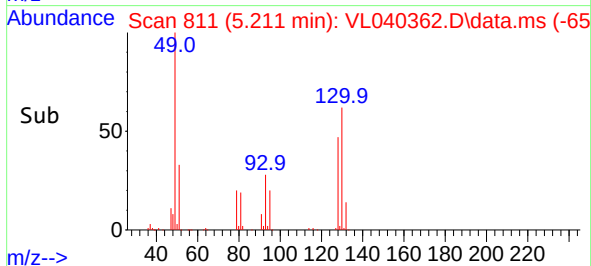
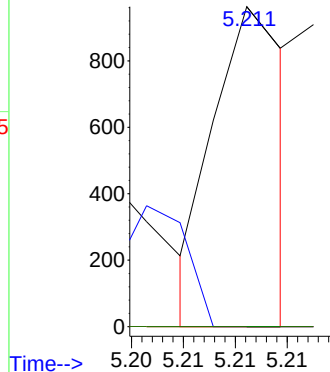
45 0.0 8.5 12.7#

61 0.0 8.5 12.7#

70 0.0 6.1 9.1#



Abundance



#26

Hexane

Concen: 0.012 ppbv

RT: 5.221 min Scan# 814

Delta R.T. 0.013 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Tgt Ion: 57 Resp: 1147

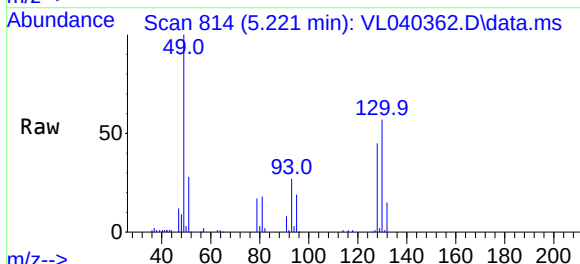
Ion Ratio Lower Upper

57 100

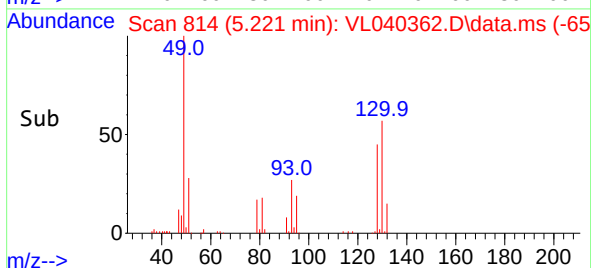
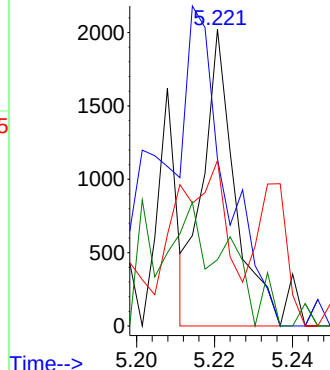
41 214.2 74.8 112.2#

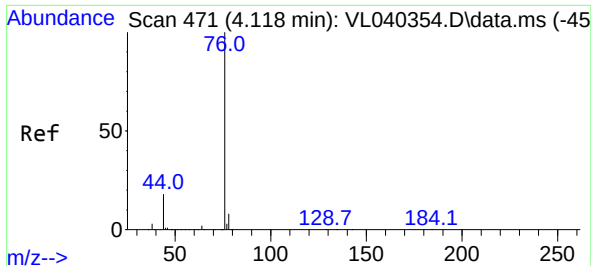
43 163.6 192.7 289.1#

56 0.0 42.6 64.0#



Abundance

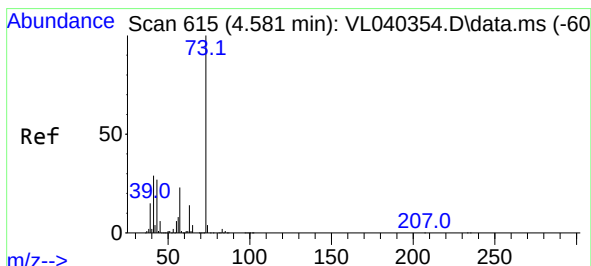
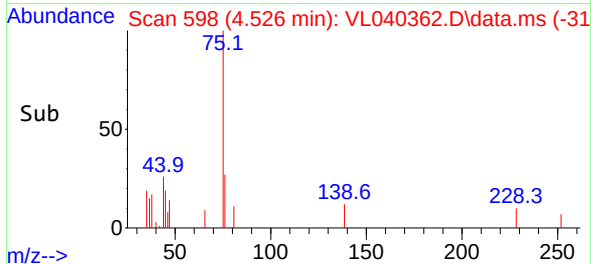
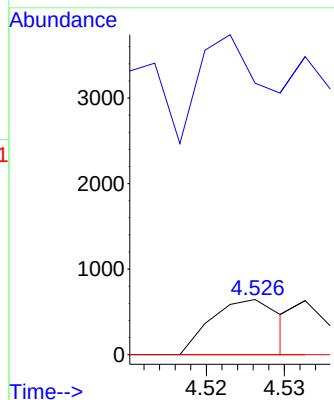
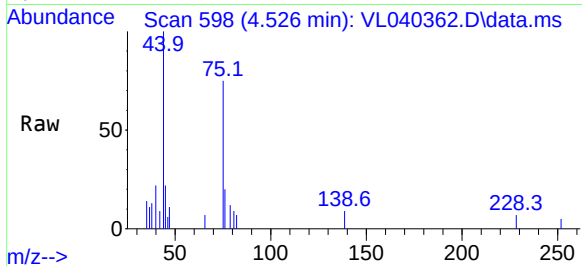




#27
Carbon Disulfide
Concen: 0.003 ppbv
RT: 4.526 min Scan# 51
Delta R.T. 0.408 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

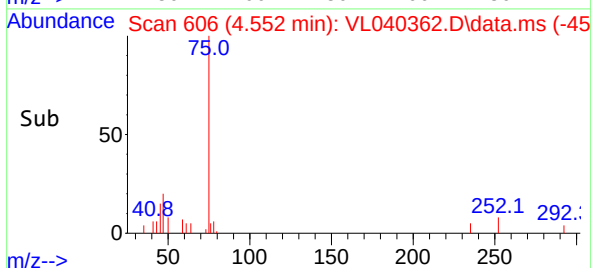
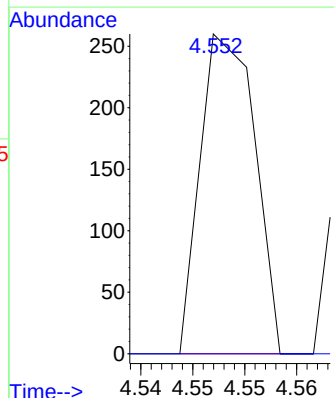
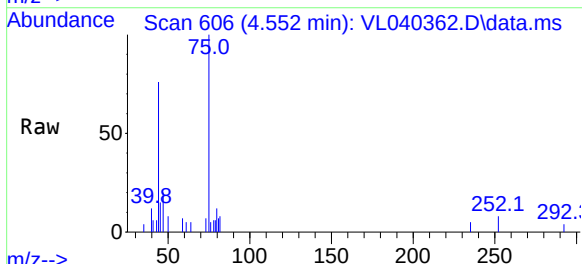
Instrument :
MSVOA_1
ClientSampleId :
VL0413ABL01

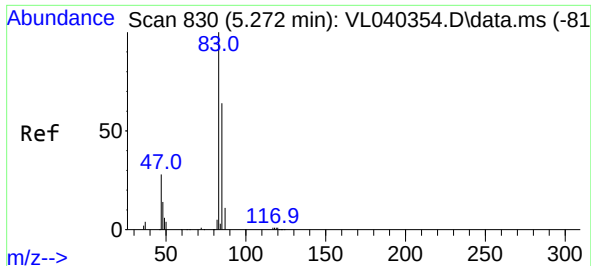
Tgt Ion: 76 Resp: 398
Ion Ratio Lower Upper
76 100
44 0.0 14.7 22.1#
78 118.8 7.7 11.5#



#28
Methyl tert-Butyl Ether
Concen: 0.001 ppbv
RT: 4.552 min Scan# 606
Delta R.T. -0.029 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 73 Resp: 95
Ion Ratio Lower Upper
73 100
57 0.0 18.6 27.8#





#29

Chloroform

Concen: 0.001 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

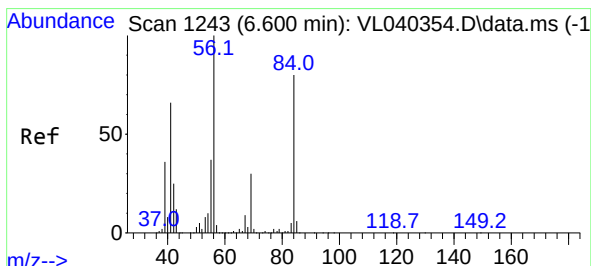
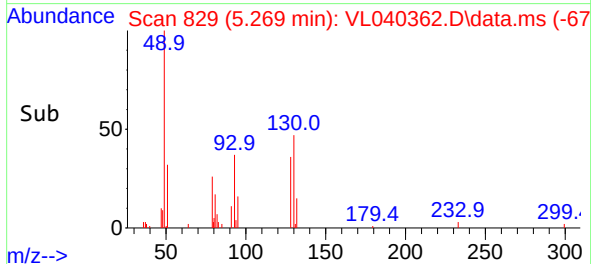
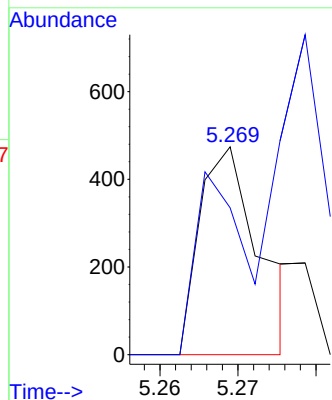
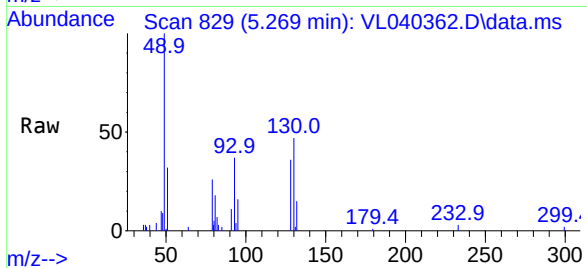
VL0413ABL01

Tgt Ion: 83 Resp: 252

Ion Ratio Lower Upper

83 100

85 70.7 51.0 76.4



#30

Cyclohexane

Concen: 0.073 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. 0.048 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

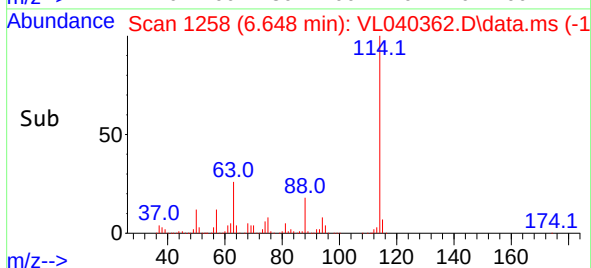
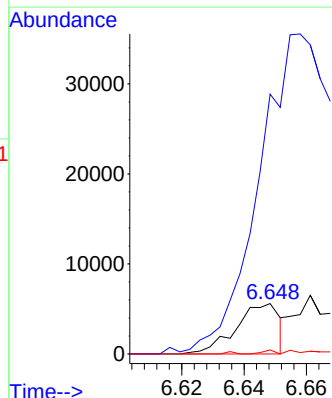
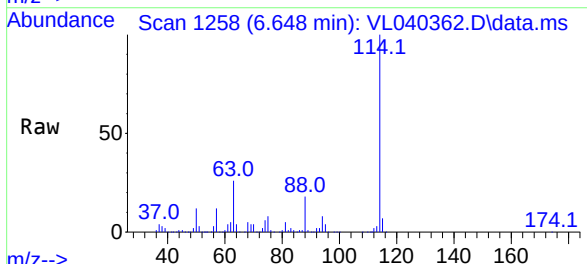
Tgt Ion: 84 Resp: 5451

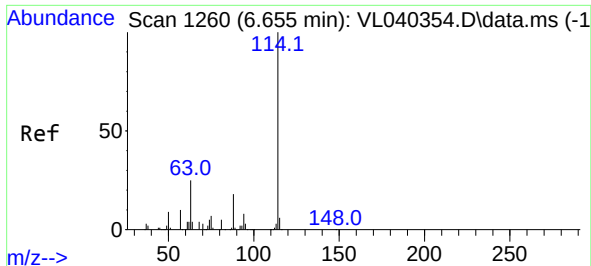
Ion Ratio Lower Upper

84 100

56 0.0 107.0 160.6#

41 9.7 66.7 100.1#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

VL0413ABL01

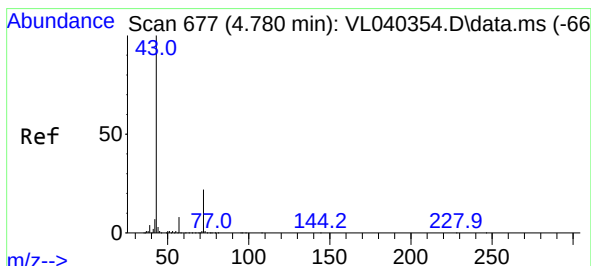
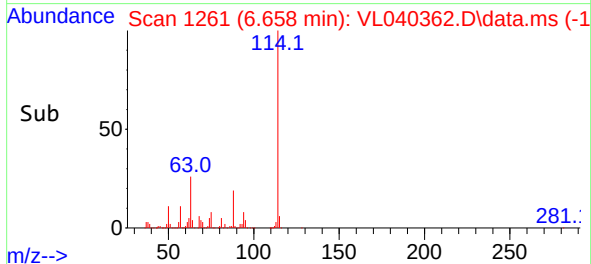
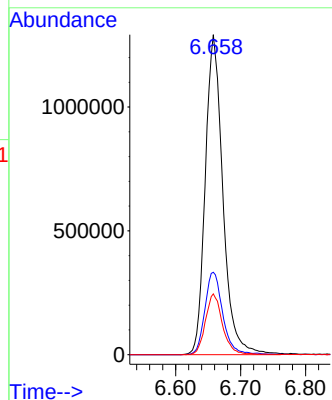
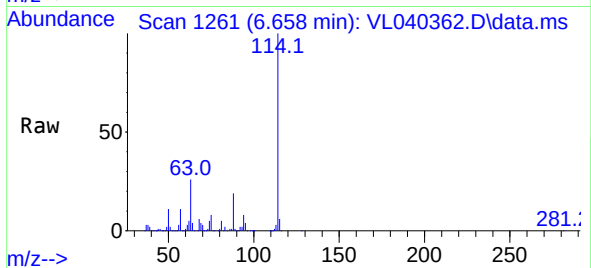
Tgt Ion:114 Resp: 2441268

Ion Ratio Lower Upper

114 100

63 26.5 21.4 32.0

88 18.6 14.6 22.0



#34

2-Butanone

Concen: 0.000 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.000 min

Lab File: VL040362.D

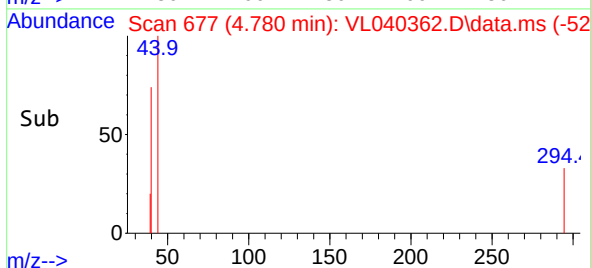
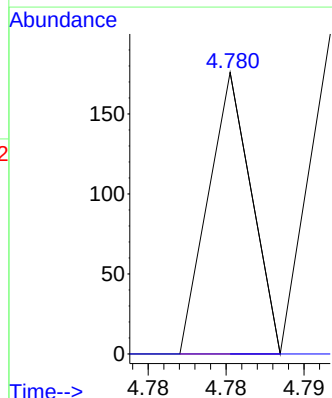
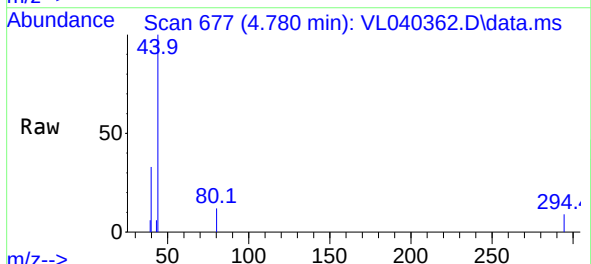
Acq: 13 Apr 2023 16:27

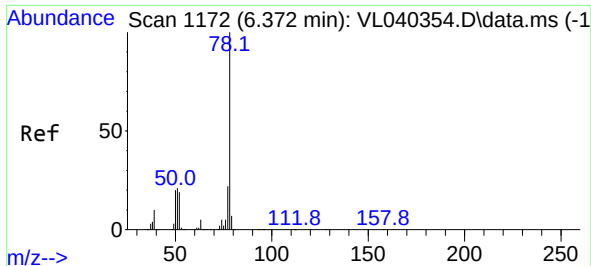
Tgt Ion: 43 Resp: 34

Ion Ratio Lower Upper

43 100

72 0.0 18.4 27.6#

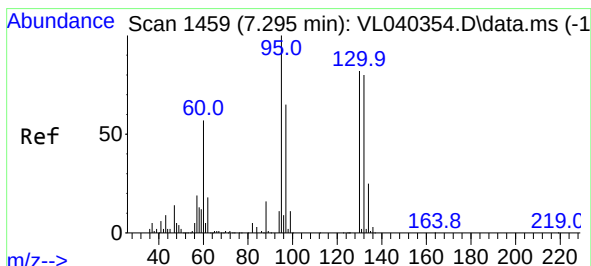
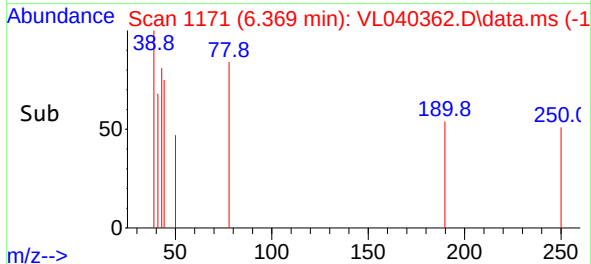
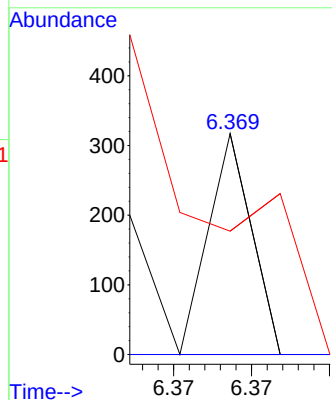
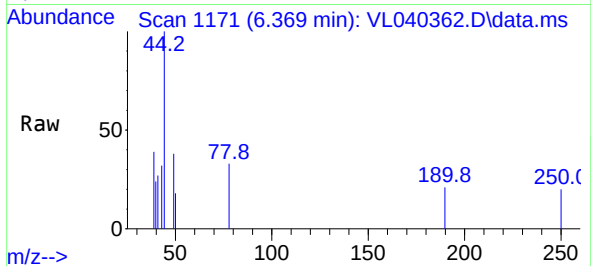




#36
Benzene
Concen: 0.000 ppbv
RT: 6.369 min Scan# 1172
Delta R.T. -0.003 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

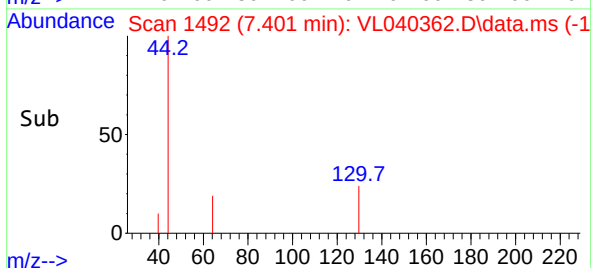
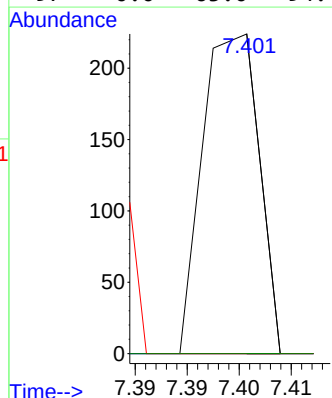
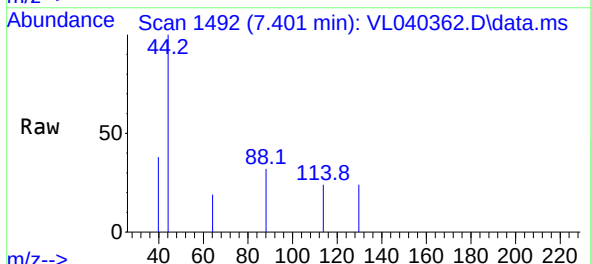
Instrument :
MSVOA_1
ClientSampleId :
VL0413ABL01

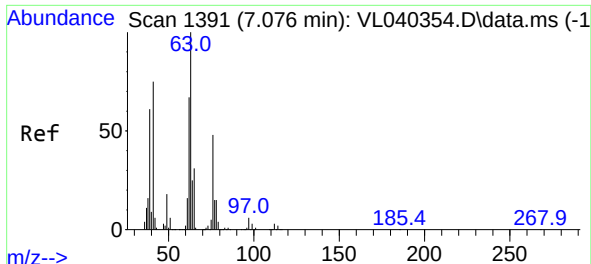
Tgt Ion: 78	Resp: 61
Ion Ratio	Lower Upper
78 100	
77 100.0	17.8 26.8#
50 0.0	15.6 23.4#



#38
Trichloroethene
Concen: 0.001 ppbv
RT: 7.401 min Scan# 1492
Delta R.T. 0.106 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 130	Resp: 84
Ion Ratio	Lower Upper
130 100	
95 0.0	97.4 146.0#
132 0.0	77.5 116.3#
97 0.0	63.0 94.4#

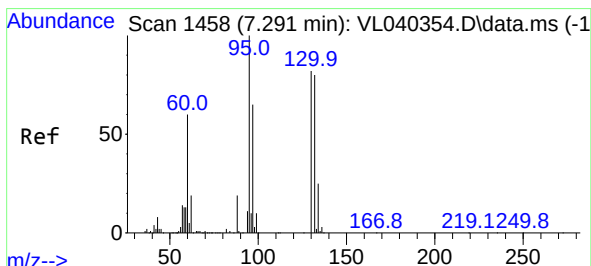
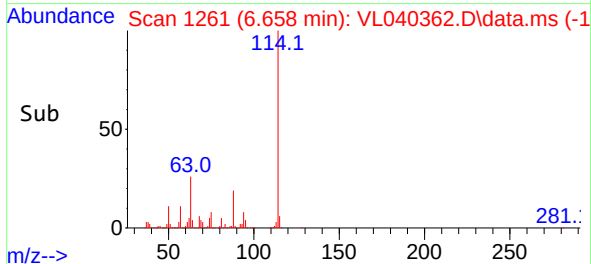
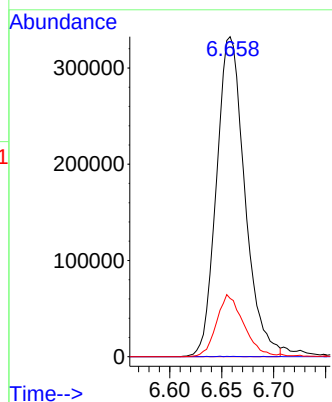
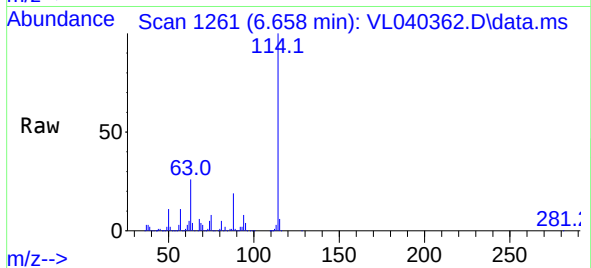




#39
1,2-Dichloropropane
Concen: 8.043 ppbv
RT: 6.658 min Scan# 11
Delta R.T. -0.418 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

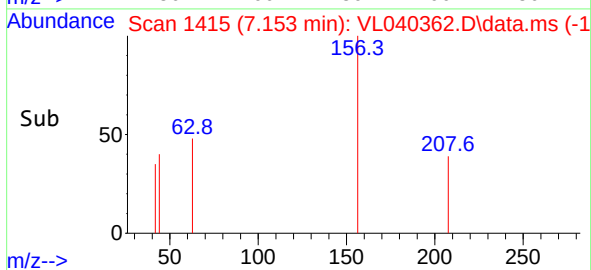
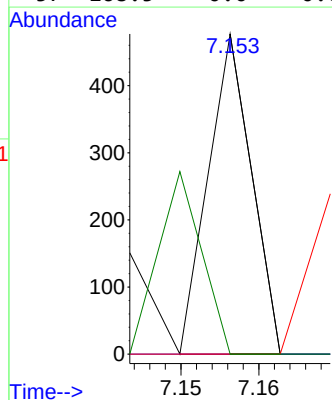
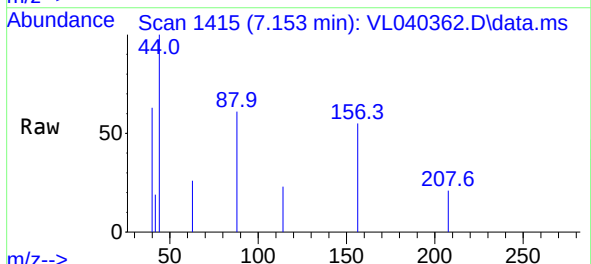
Instrument :
MSVOA_1
ClientSampleId :
VL0413ABL01

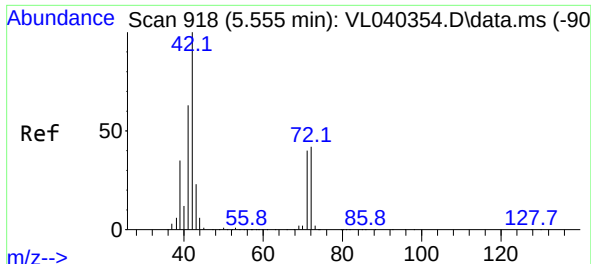
Tgt Ion: 63 Resp: 630348
Ion Ratio Lower Upper
63 100
41 0.0 59.6 89.4#
62 18.2 53.9 80.9#



#40
1,4-Dioxane
Concen: 0.003 ppbv
RT: 7.153 min Scan# 1415
Delta R.T. -0.138 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 88 Resp: 92
Ion Ratio Lower Upper
88 100
58 0.0 100.8 151.2#
43 102.2 0.0 0.0#
57 168.5 0.0 0.0#

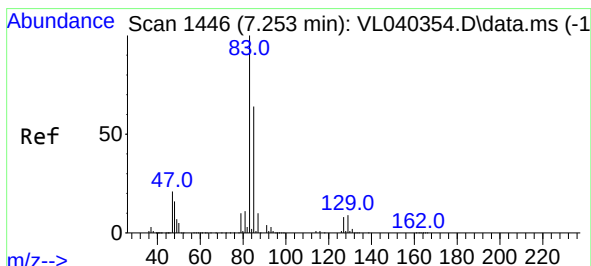
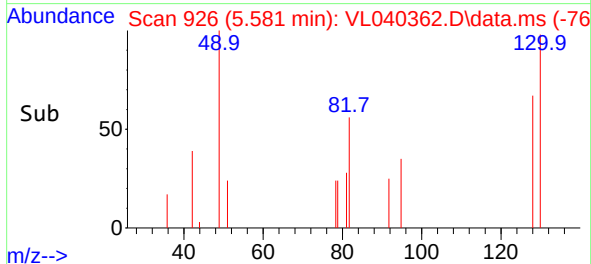
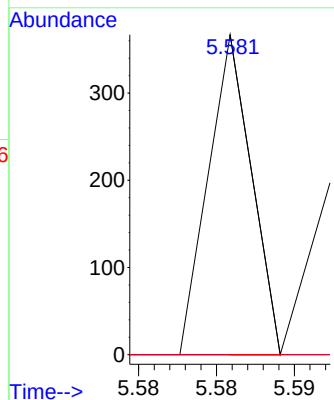
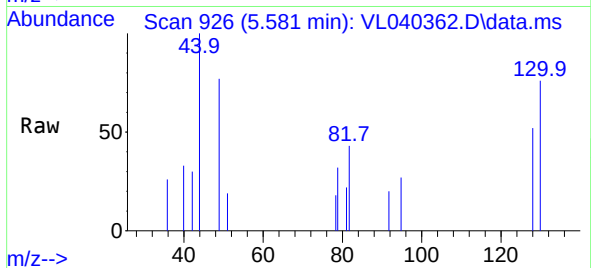




#41
Tetrahydrofuran
Concen: 0.001 ppbv
RT: 5.581 min Scan# 918
Delta R.T. 0.026 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

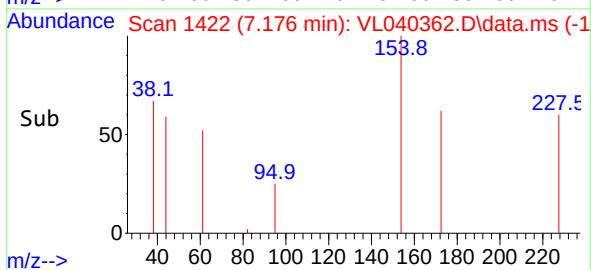
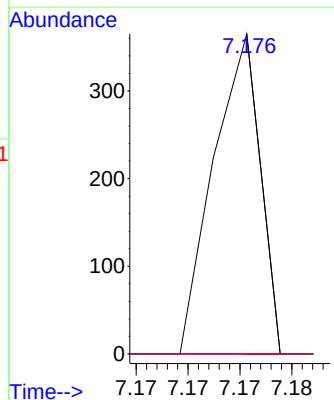
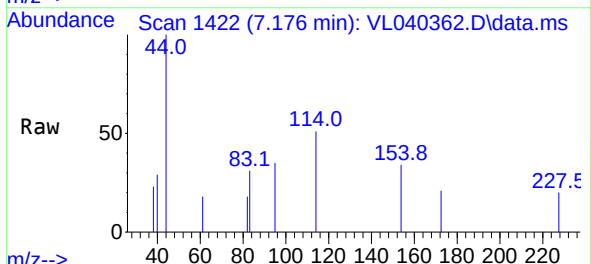
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

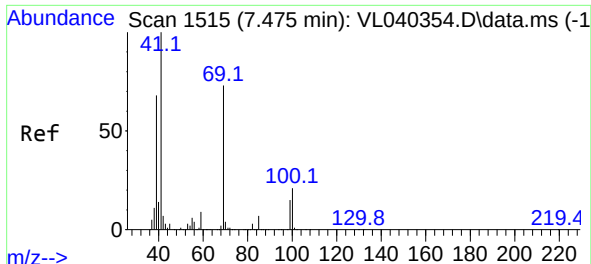
Tgt Ion: 42 Resp: 71
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.2 48.2#



#42
Bromodichloromethane
Concen: 0.001 ppbv
RT: 7.176 min Scan# 1422
Delta R.T. -0.077 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 83 Resp: 114
Ion Ratio Lower Upper
83 100
85 0.0 50.9 76.3#
127 0.0 6.4 9.6#





#43

Methyl Methacrylate

Concen: 0.001 ppbv

RT: 6.999 min Scan# 11

Delta R.T. -0.476 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

VL0413ABL01

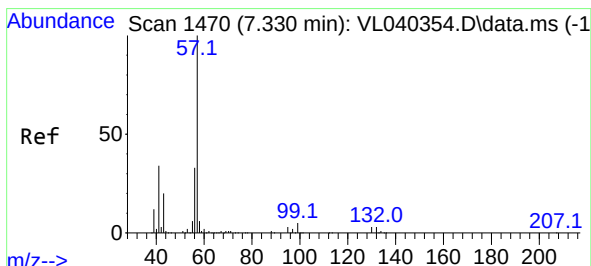
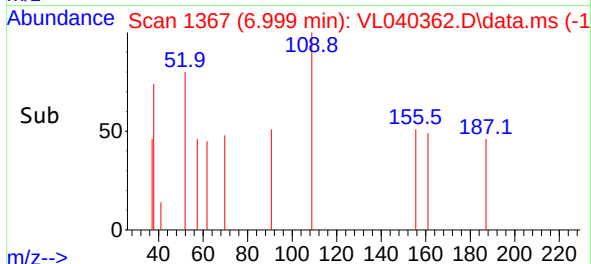
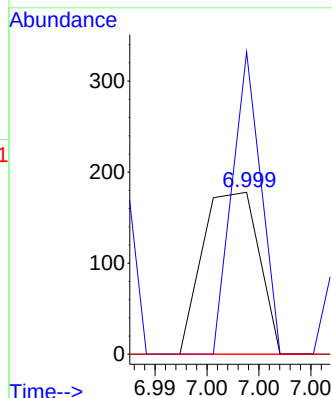
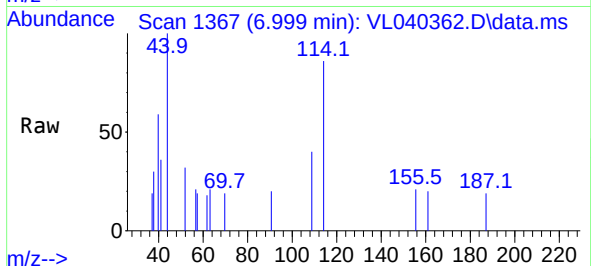
Tgt Ion: 69 Resp: 68

Ion Ratio Lower Upper

69 100

41 154.4 114.3 171.5

100 0.0 24.5 36.7#



#44

2,2,4-Trimethylpentane

Concen: 0.000 ppbv

RT: 7.234 min Scan# 1440

Delta R.T. -0.096 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

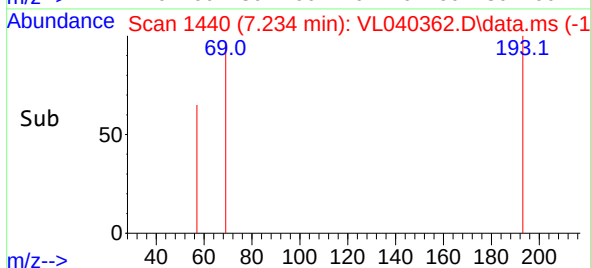
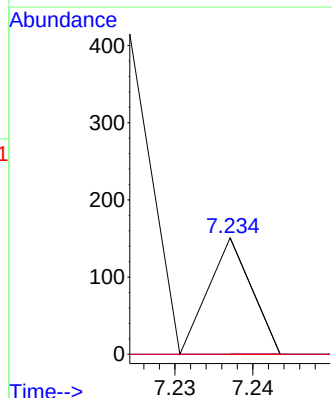
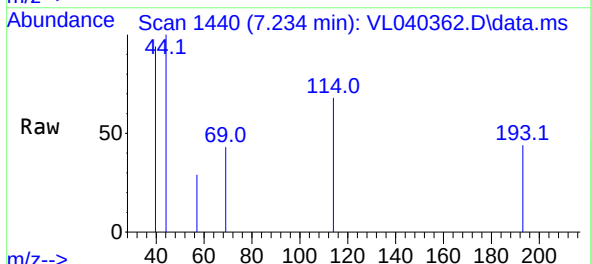
Tgt Ion: 57 Resp: 29

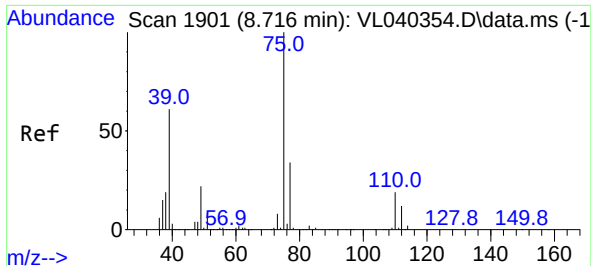
Ion Ratio Lower Upper

57 100

41 0.0 26.9 40.3#

56 241.4 25.1 37.7#





#45

t-1,3-Dichloropropene

Concen: 0.001 ppbv

RT: 8.970 min Scan# 1816

Delta R.T. 0.254 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

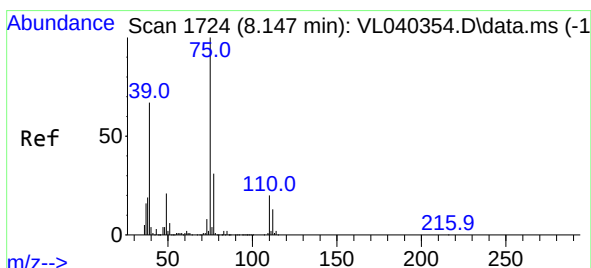
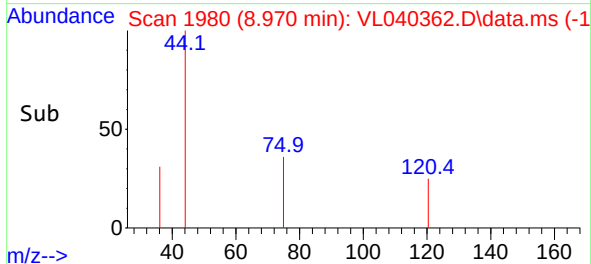
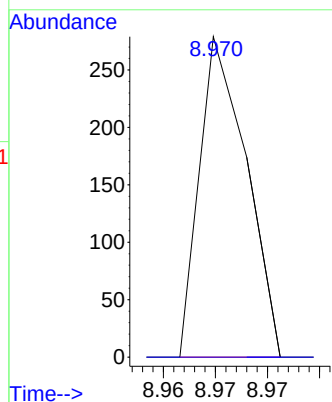
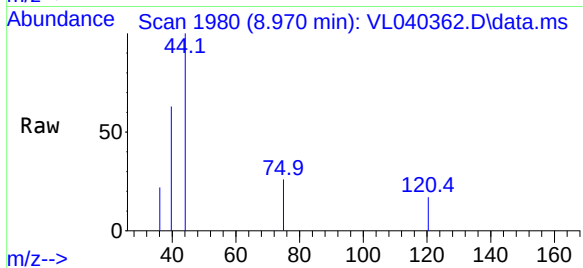
VL0413ABL01

Tgt Ion: 75 Resp: 87

Ion Ratio Lower Upper

75 100

77 0.0 26.8 40.2#



#46

cis-1,3-Dichloropropene

Concen: 0.001 ppbv

RT: 8.442 min Scan# 1816

Delta R.T. 0.296 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

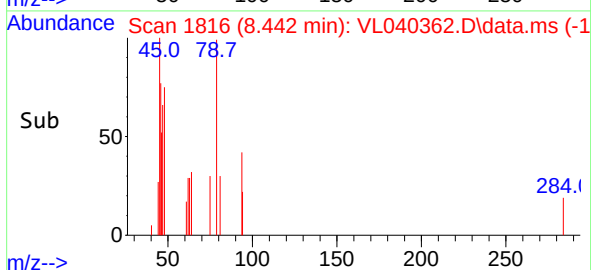
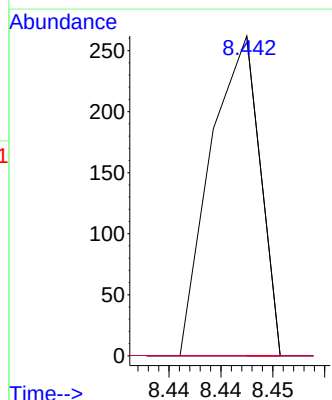
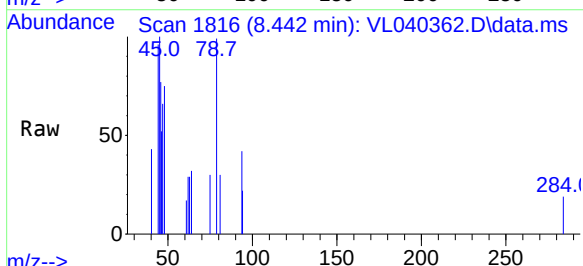
Tgt Ion: 75 Resp: 86

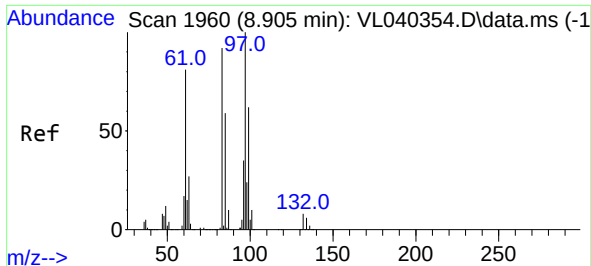
Ion Ratio Lower Upper

75 100

39 0.0 53.4 80.2#

77 0.0 24.7 37.1#



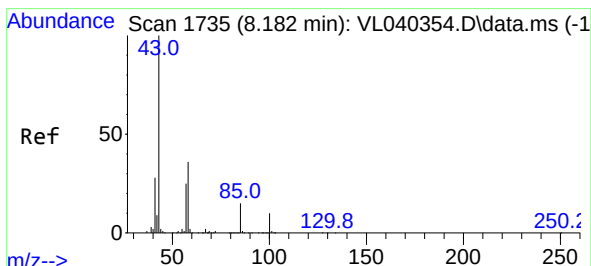
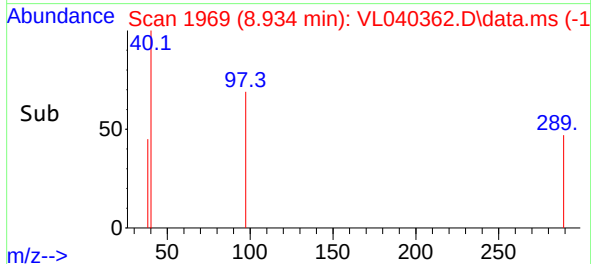
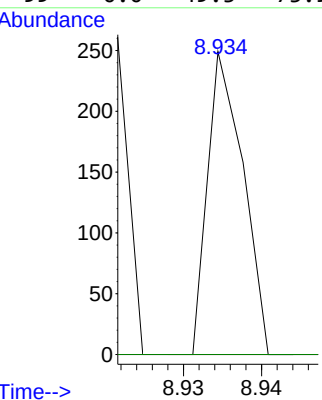
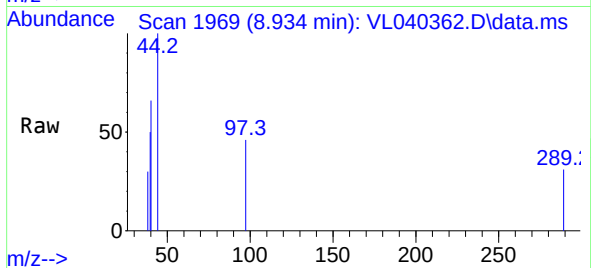


#47
1,1,2-Trichloroethane
Concen: 0.001 ppbv
RT: 8.934 min Scan# 1960
Delta R.T. 0.029 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

Tgt Ion: 97 Resp: 78

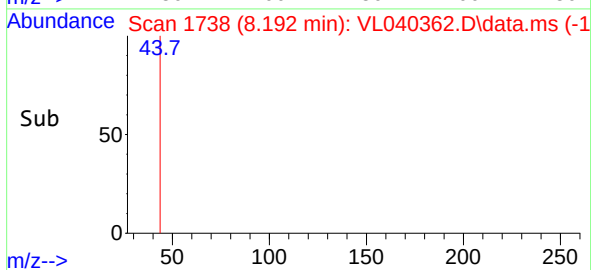
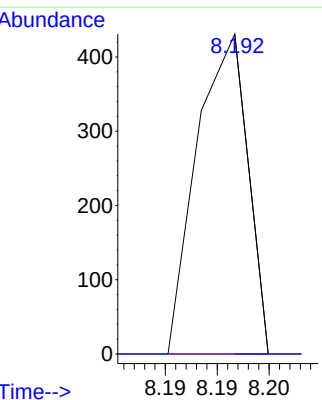
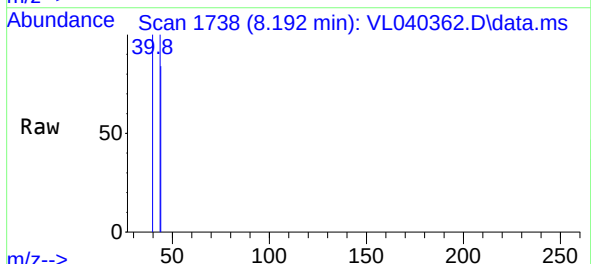
Ion	Ratio	Lower	Upper
97	100		
83	0.0	73.3	109.9#
85	0.0	46.9	70.3#
99	0.0	49.3	73.9#

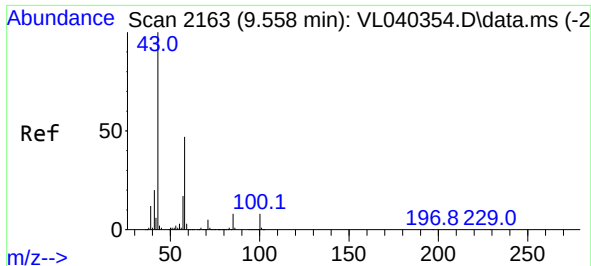


#50
4-Methyl-2-Pentanone
Concen: 0.001 ppbv
RT: 8.192 min Scan# 1738
Delta R.T. 0.010 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 43 Resp: 146

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#

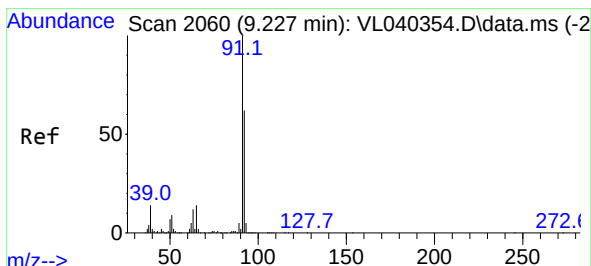
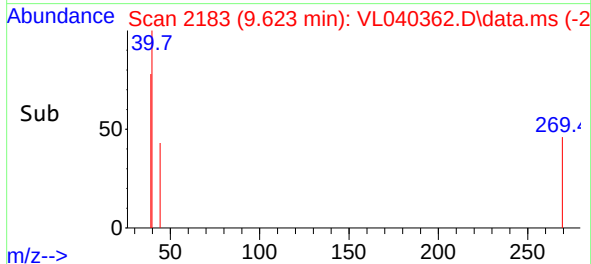
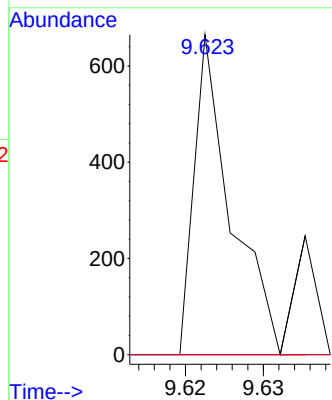
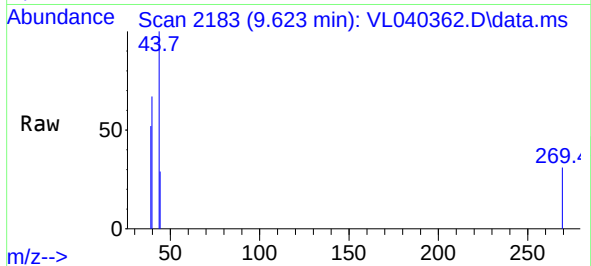




#51
2-Hexanone
Concen: 0.001 ppbv
RT: 9.623 min Scan# 2163
Delta R.T. 0.064 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

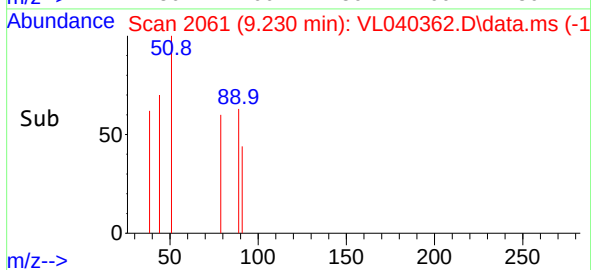
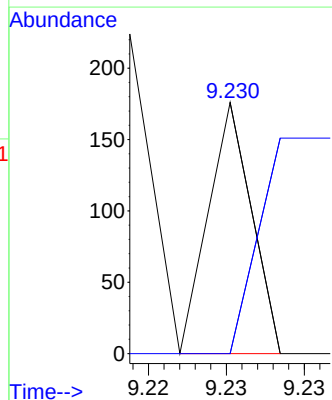
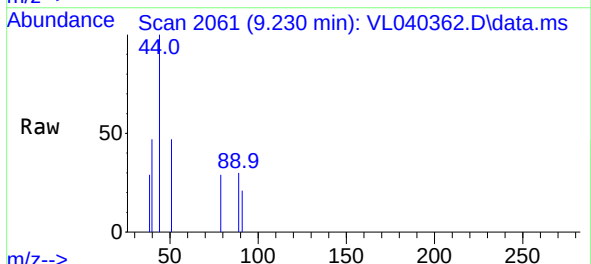
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

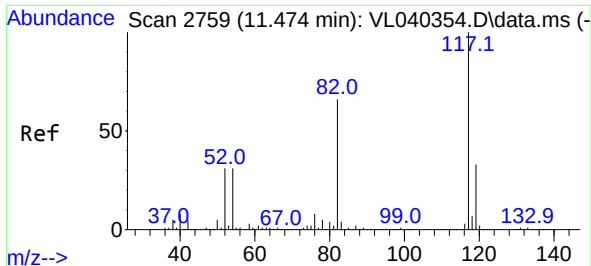
Tgt Ion: 43	Resp: 218
Ion Ratio	Lower Upper
43 100	
58 0.0	38.3 57.5#
98 0.0	0.4 0.6#



#53
Toluene
Concen: 0.000 ppbv
RT: 9.230 min Scan# 2061
Delta R.T. 0.003 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 91	Resp: 34		
Ion Ratio	Lower	Upper	
91 100			
92 170.6	48.9	73.3#	

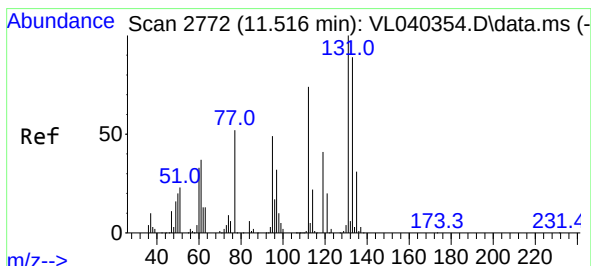
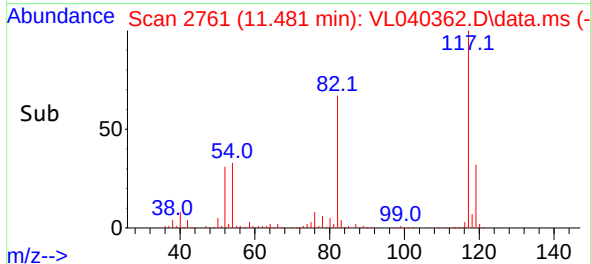
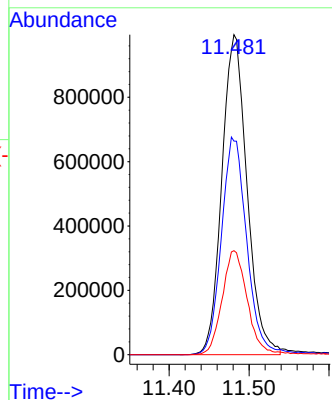
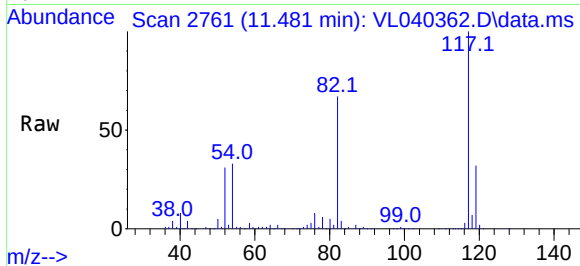




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

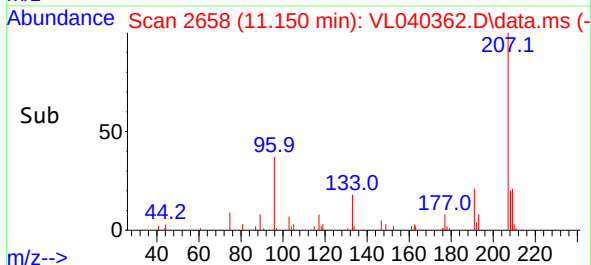
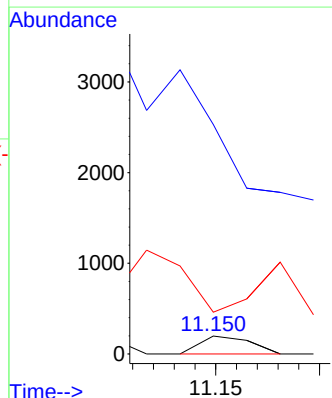
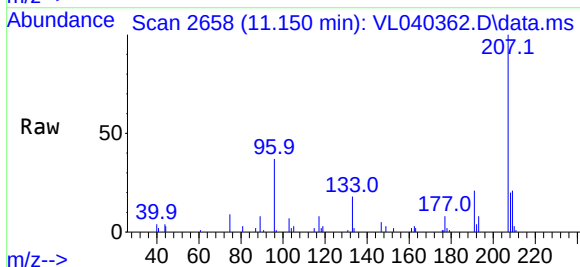
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

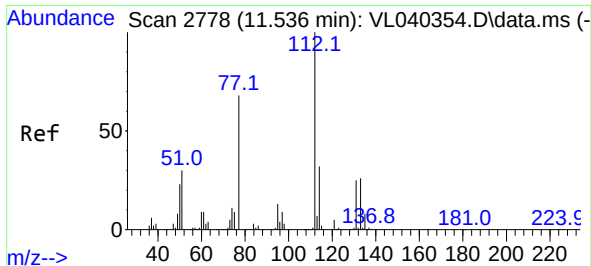
Tgt Ion:117 Resp: 2172121
Ion Ratio Lower Upper
117 100
82 69.7 52.5 78.7
119 32.7 24.3 36.5



#56
1,1,1,2-Tetrachloroethane
Concen: 0.001 ppbv
RT: 11.150 min Scan# 2658
Delta R.T. -0.367 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion:131 Resp: 67
Ion Ratio Lower Upper
131 100
133 0.0 75.3 112.9#
119 0.0 53.9 80.9#

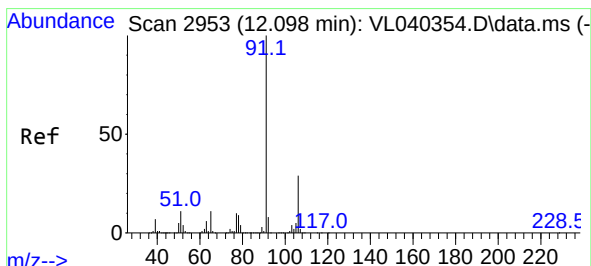
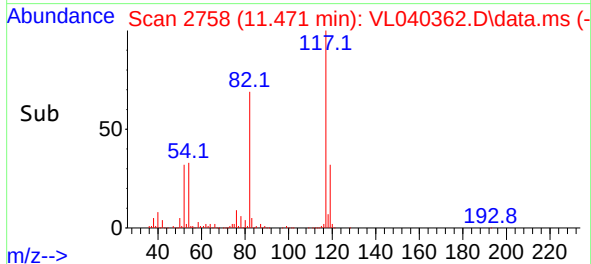
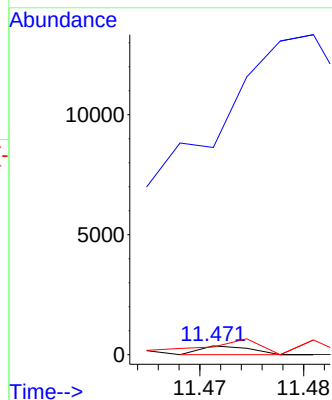
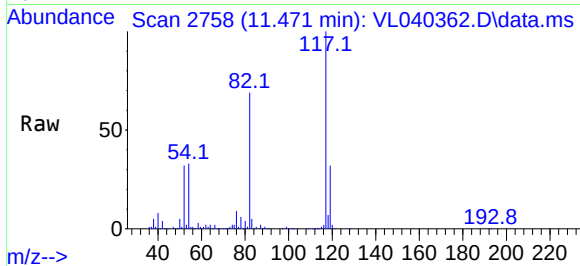




#57
Chlorobenzene
Concen: 0.001 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.064 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

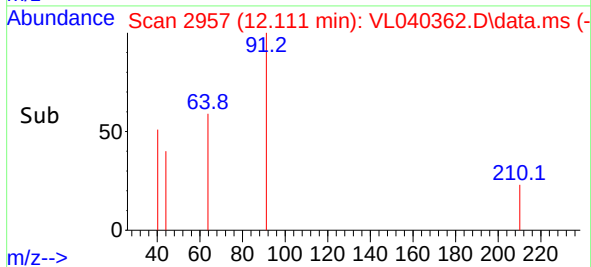
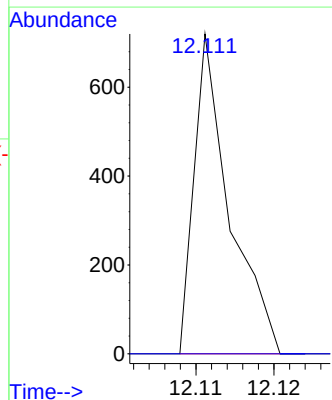
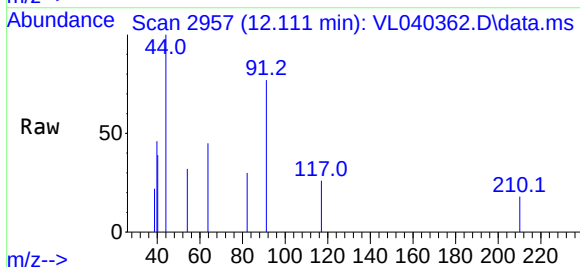
Instrument :
MSVOA_1
ClientSampleId :
VL0413ABL01

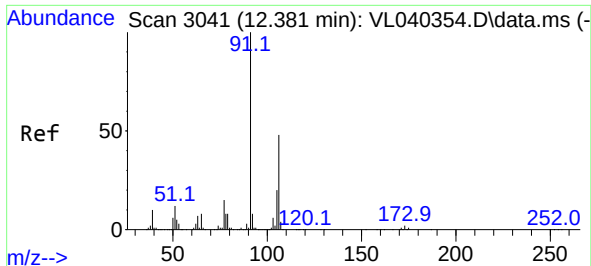
Tgt Ion:112 Resp: 121
Ion Ratio Lower Upper
112 100
77 0.0 55.8 83.8#
114 88.2 29.1 35.5#



#58
Ethyl Benzene
Concen: 0.001 ppbv
RT: 12.111 min Scan# 2957
Delta R.T. 0.013 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 91 Resp: 226
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#





#59

m/p-Xylene

Concen: 0.001 ppbv

RT: 12.111 min Scan# 24

Delta R.T. -0.270 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

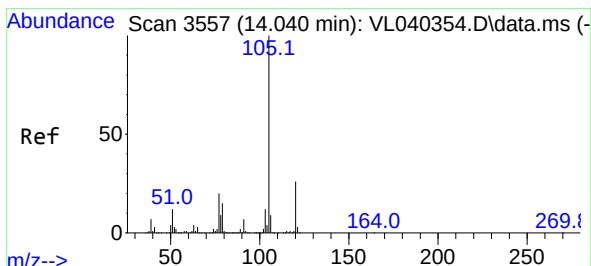
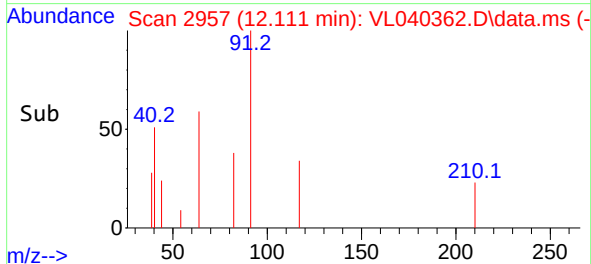
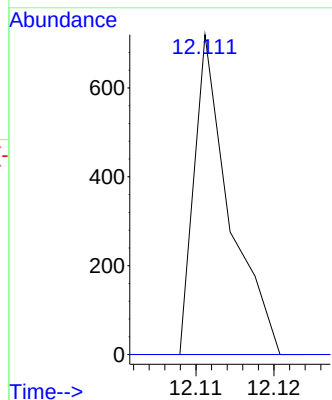
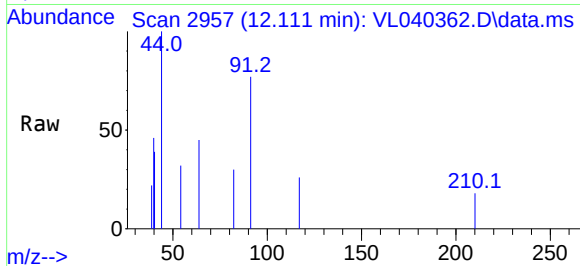
VL0413ABL01

Tgt Ion: 91 Resp: 226

Ion Ratio Lower Upper

91 100

106 40.7 34.7 52.1



#62

Isopropylbenzene

Concen: 0.002 ppbv

RT: 13.786 min Scan# 3478

Delta R.T. -0.254 min

Lab File: VL040362.D

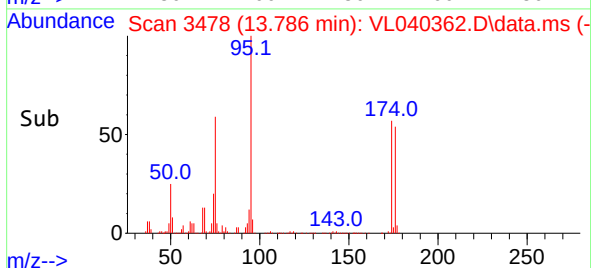
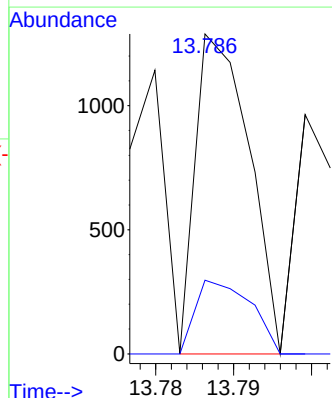
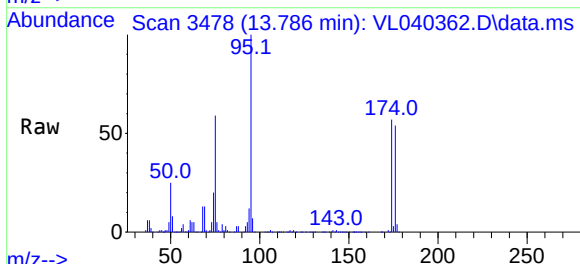
Acq: 13 Apr 2023 16:27

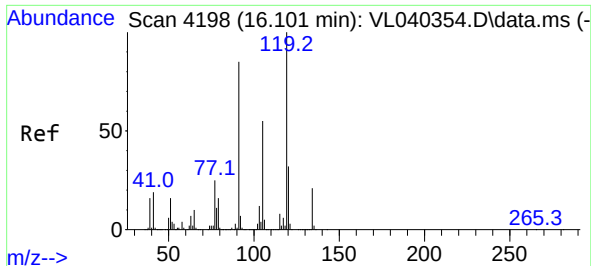
Tgt Ion: 105 Resp: 617

Ion Ratio Lower Upper

105 100

120 23.7 19.9 29.9

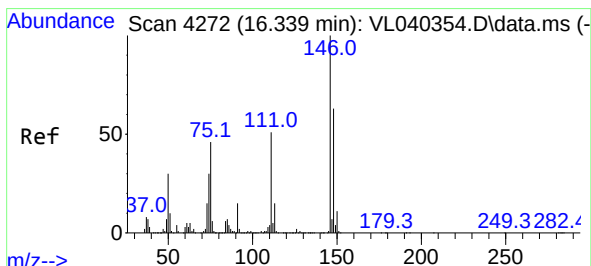
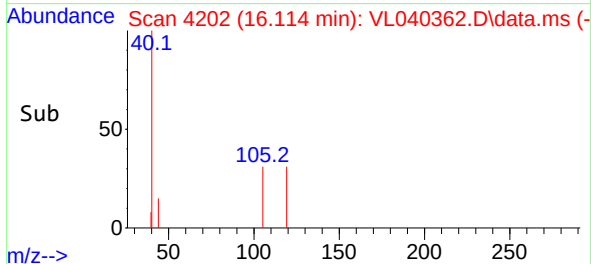
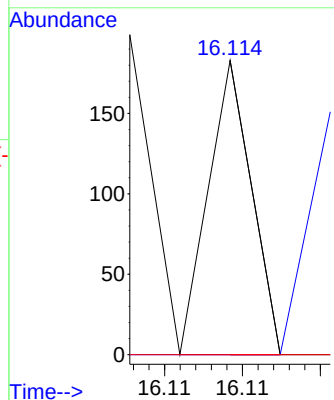
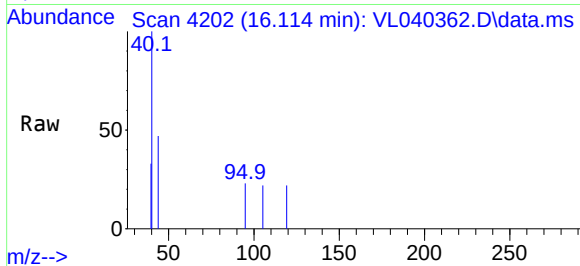




#65
tert-Butylbenzene
Concen: 0.000 ppbv
RT: 16.114 min Scan# 4198
Delta R.T. 0.013 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

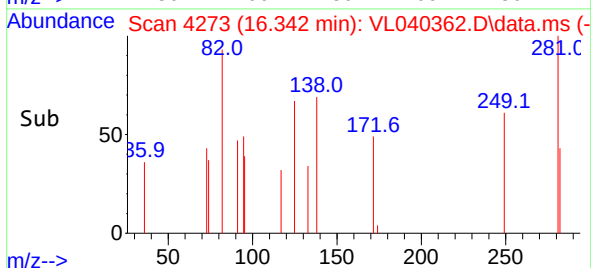
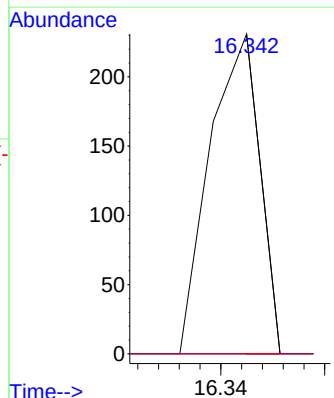
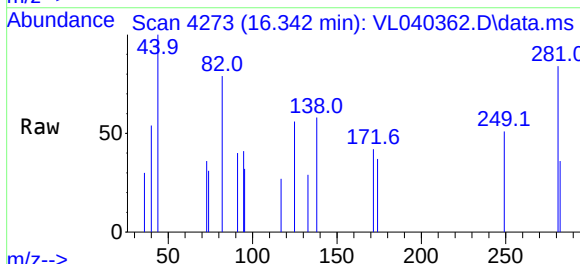
Instrument :
MSVOA_1
ClientSampleId :
VL0413ABL01

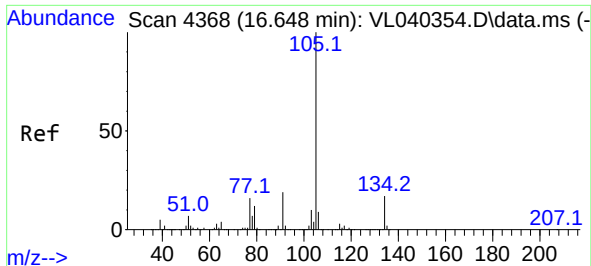
Tgt Ion:119 Resp: 35
Ion Ratio Lower Upper
119 100
91 82.9 70.1 105.1
134 0.0 15.6 23.4#



#66
Benzyl Chloride
Concen: 0.004 ppbv
RT: 16.342 min Scan# 4273
Delta R.T. 0.003 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 91 Resp: 77
Ion Ratio Lower Upper
91 100
126 44.2 12.3 18.5#
128 0.0 4.1 6.1#





#67

sec-Butylbenzene

Concen: 0.000 ppbv

RT: 16.693 min Scan# 41

Delta R.T. 0.045 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_1

ClientSampleId :

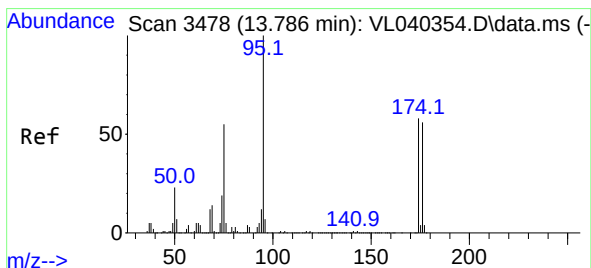
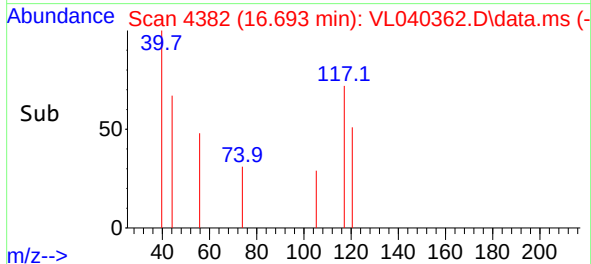
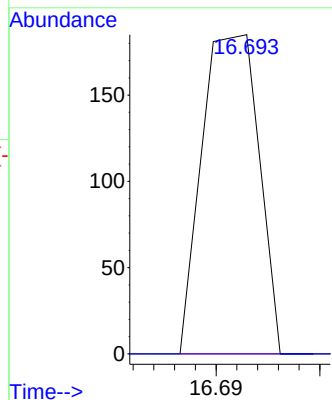
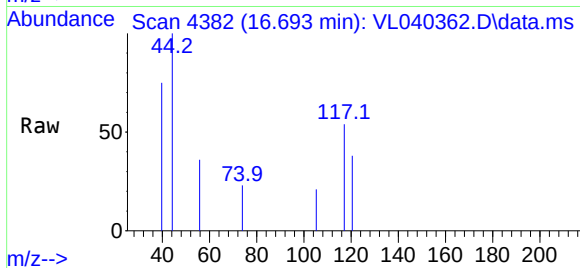
VL0413ABL01

Tgt Ion:105 Resp: 71

Ion Ratio Lower Upper

105 100

134 0.0 13.8 20.6#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.829 ppbv

RT: 13.790 min Scan# 3479

Delta R.T. 0.003 min

Lab File: VL040362.D

Acq: 13 Apr 2023 16:27

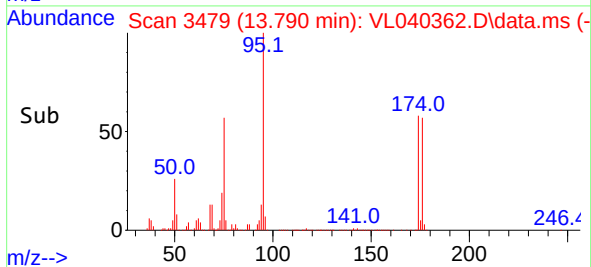
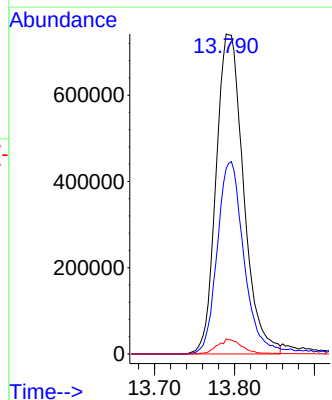
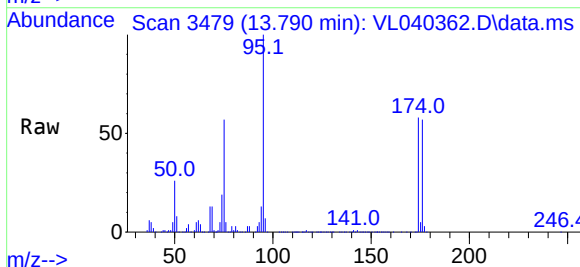
Tgt Ion: 95 Resp: 1765531

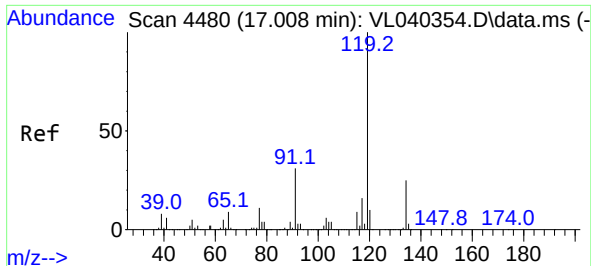
Ion Ratio Lower Upper

95 100

174 60.7 47.2 70.8

175 4.3 3.5 5.3

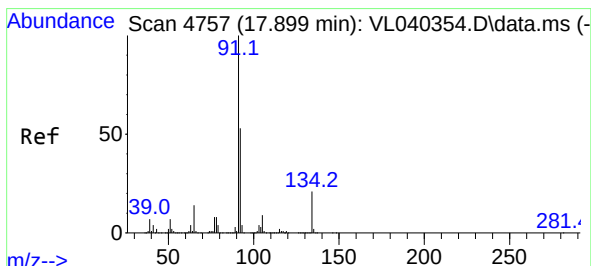
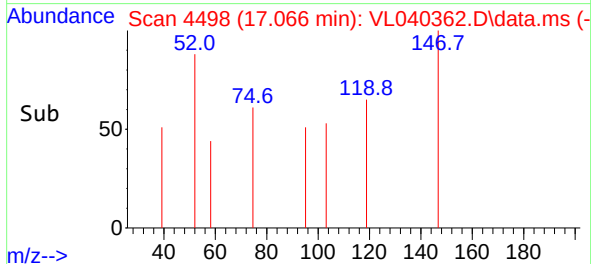
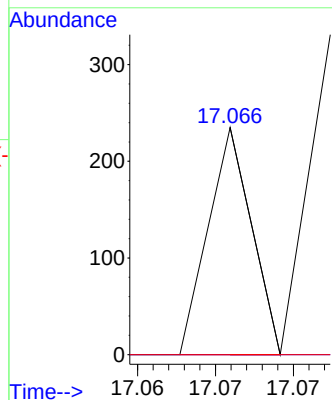
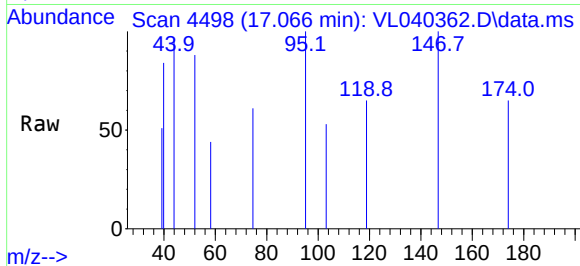




#69
p-Isopropyltoluene
Concen: 0.000 ppbv
RT: 17.066 min Scan# 44
Delta R.T. 0.058 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

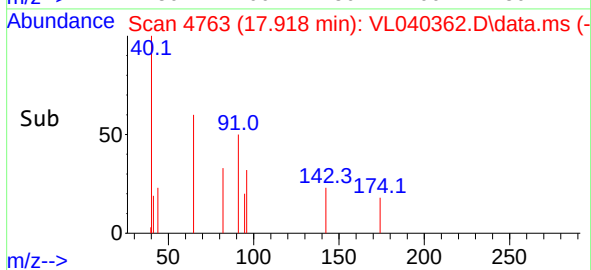
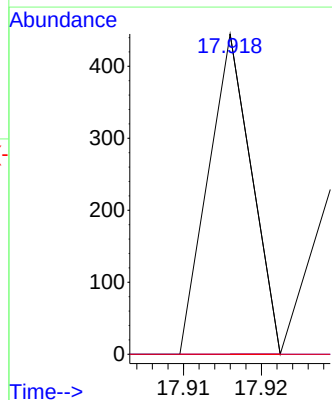
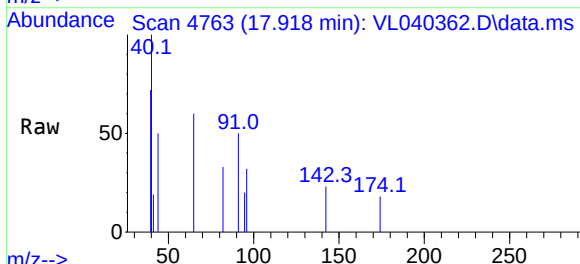
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

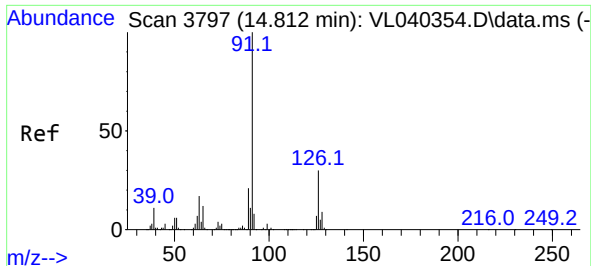
Tgt Ion:119 Resp: 45
Ion Ratio Lower Upper
119 100
134 0.0 20.2 30.4#
91 0.0 25.7 38.5#



#70
n-Butylbenzene
Concen: 0.000 ppbv
RT: 17.918 min Scan# 4763
Delta R.T. 0.019 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 91 Resp: 86
Ion Ratio Lower Upper
91 100
92 0.0 43.0 64.4#
134 0.0 16.6 25.0#

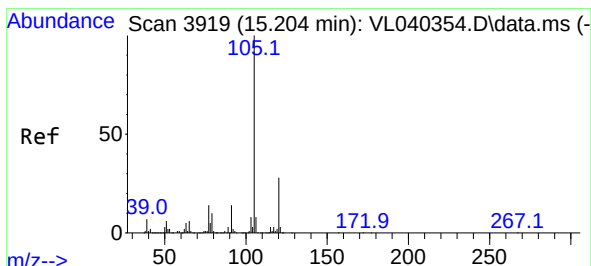
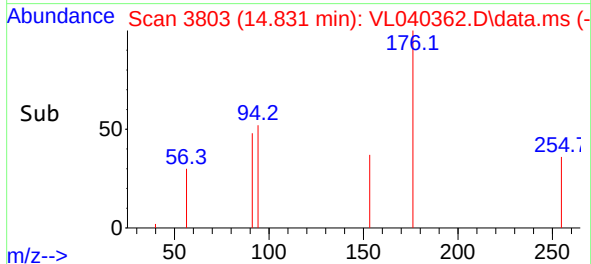
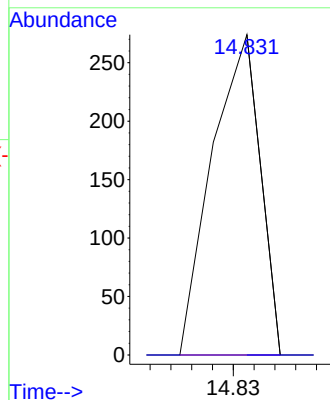
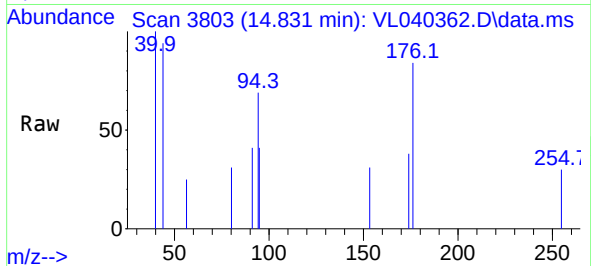




#71
2-Chlorotoluene
Concen: 0.000 ppbv
RT: 14.831 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

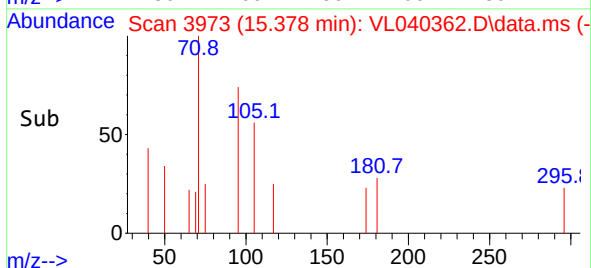
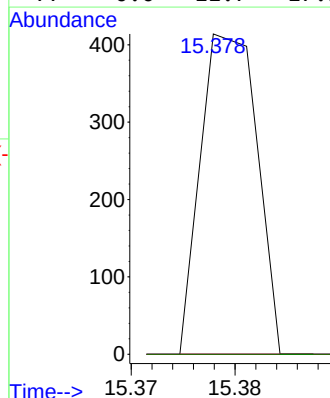
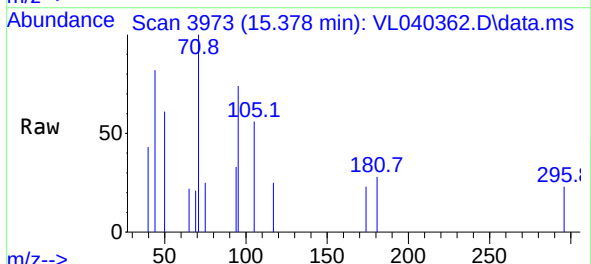
Instrument :
MSVOA_1
ClientSampleId :
VL0413ABL01

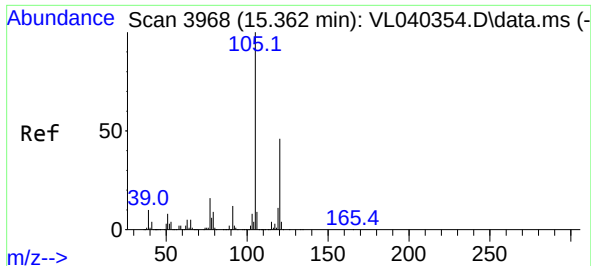
Tgt Ion: 91 Resp: 88
Ion Ratio Lower Upper
91 100
126 0.0 11.8 47.4#



#72
4-Ethyltoluene
Concen: 0.001 ppbv
RT: 15.378 min Scan# 3973
Delta R.T. 0.174 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion: 105 Resp: 157
Ion Ratio Lower Upper
105 100
120 0.0 23.0 34.6#
91 0.0 11.3 16.9#
77 0.0 11.7 17.5#

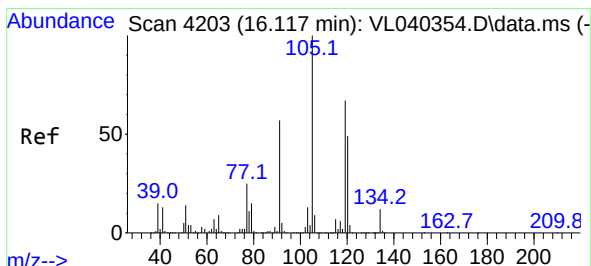
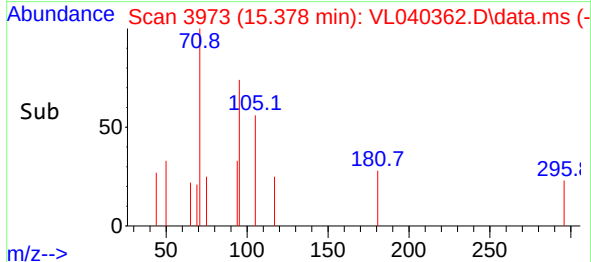
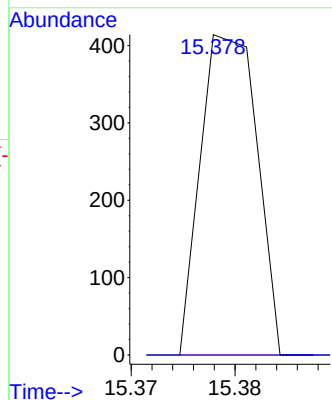
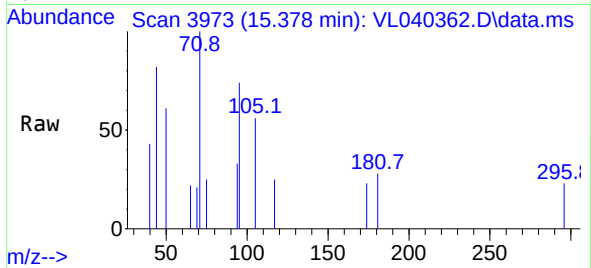




#73
1,3,5-Trimethylbenzene
Concen: 0.001 ppbv
RT: 15.378 min Scan# 3968
Delta R.T. 0.016 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

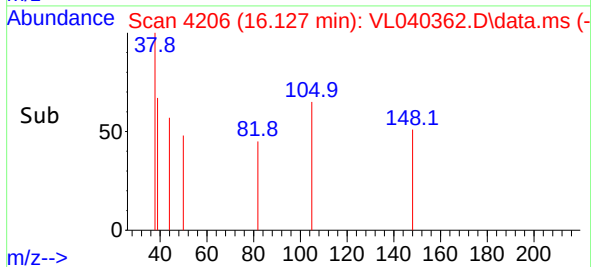
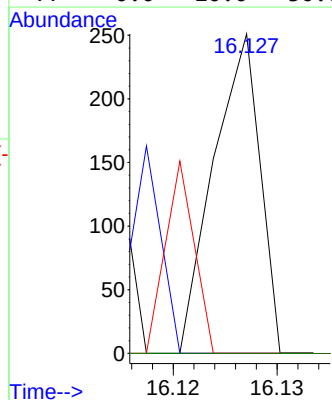
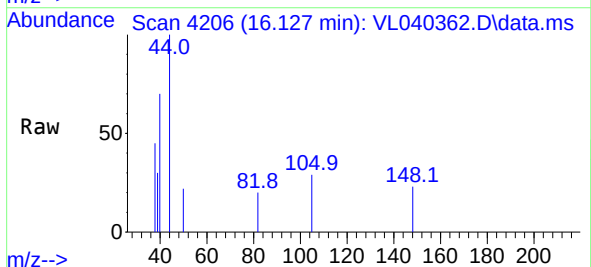
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

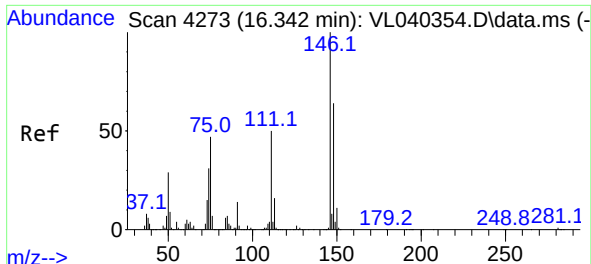
Tgt Ion:105 Resp: 157
Ion Ratio Lower Upper
105 100
120 0.0 36.9 55.3#



#74
1,2,4-Trimethylbenzene
Concen: 0.000 ppbv
RT: 16.127 min Scan# 4206
Delta R.T. 0.010 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion:105 Resp: 78
Ion Ratio Lower Upper
105 100
120 0.0 38.9 58.3#
91 0.0 46.0 69.0#
77 0.0 20.0 30.0#

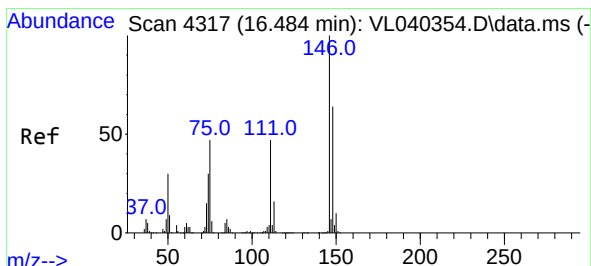
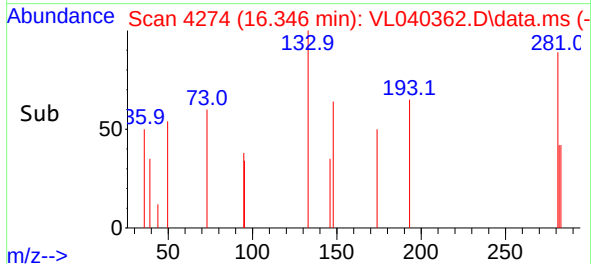
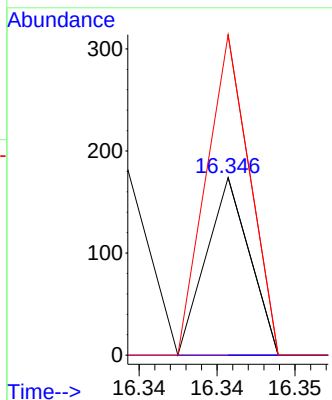
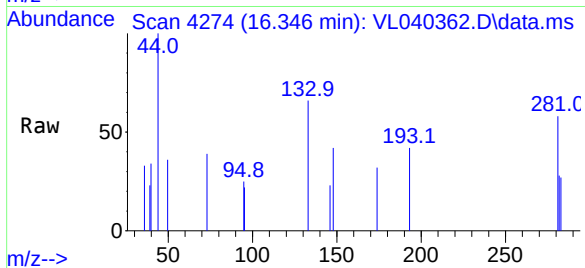




#75
1,3-Dichlorobenzene
Concen: 0.000 ppbv
RT: 16.346 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

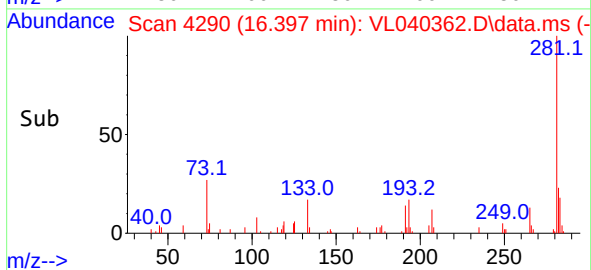
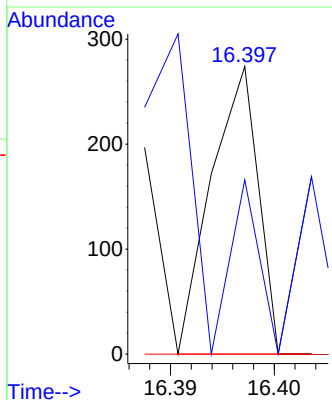
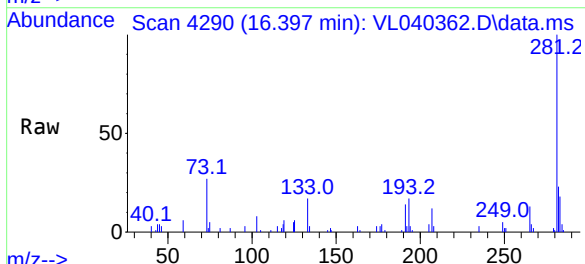
Instrument :
MSVOA_1
ClientSampleId :
VL0413ABL01

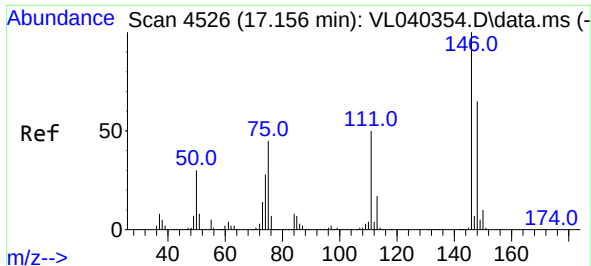
Tgt Ion:146 Resp: 34
Ion Ratio Lower Upper
146 100
111 0.0 24.6 74.0#
148 0.0 32.1 96.3#



#76
1,4-Dichlorobenzene
Concen: 0.001 ppbv
RT: 16.397 min Scan# 4290
Delta R.T. -0.087 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion:146 Resp: 86
Ion Ratio Lower Upper
146 100
111 553.5 23.8 71.4#
148 0.0 32.4 97.2#

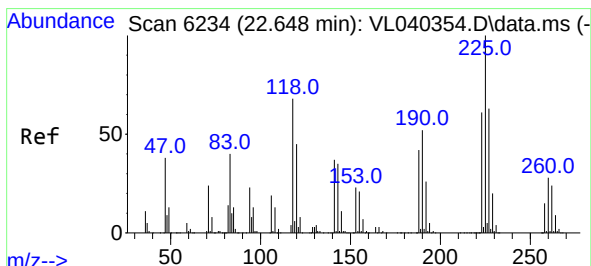
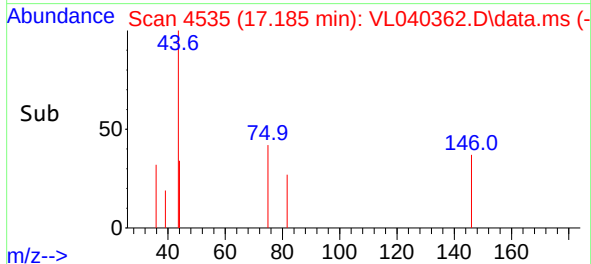
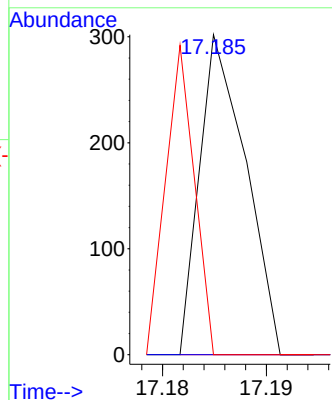
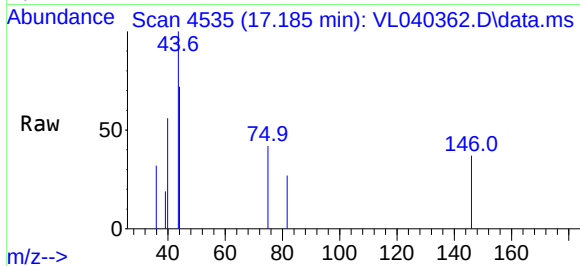




#77
1,2-Dichlorobenzene
Concen: 0.001 ppbv
RT: 17.185 min Scan# 41
Delta R.T. 0.029 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

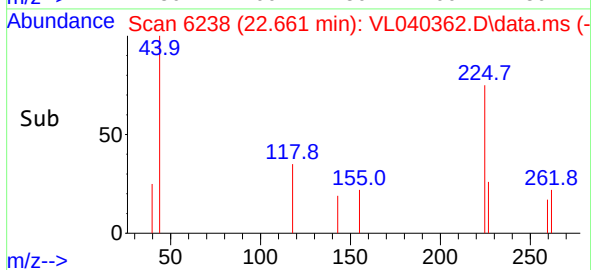
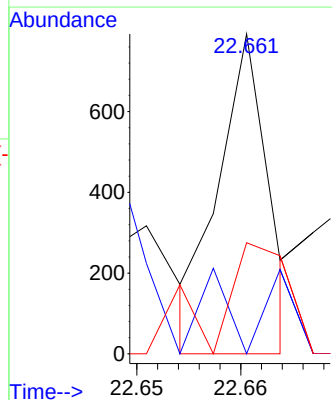
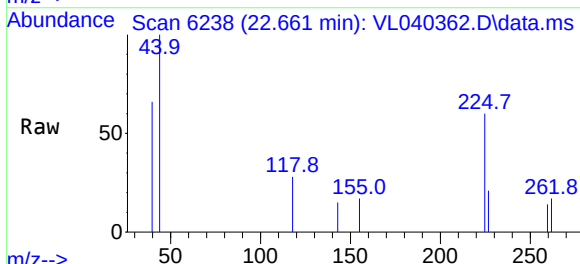
Instrument :
MSVOA_L
ClientSampleId :
VL0413ABL01

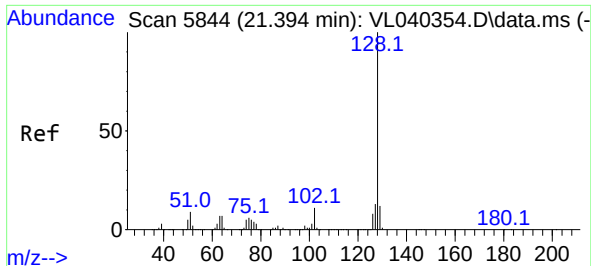
Tgt Ion:146 Resp: 93
Ion Ratio Lower Upper
146 100
111 34.4 25.4 76.0
148 173.1 32.0 96.2#



#78
Hexachloro-1,3-Butadiene
Concen: 0.002 ppbv
RT: 22.661 min Scan# 6238
Delta R.T. 0.013 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion:225 Resp: 265
Ion Ratio Lower Upper
225 100
223 0.0 50.7 76.1#
227 0.0 51.0 76.4#

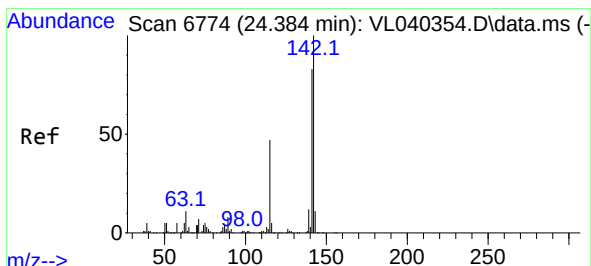
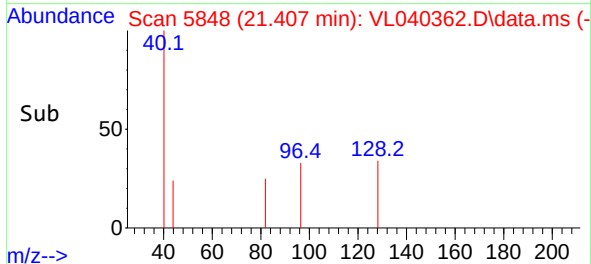
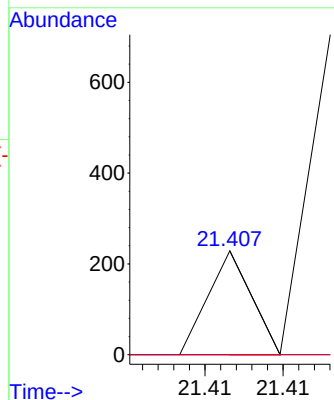
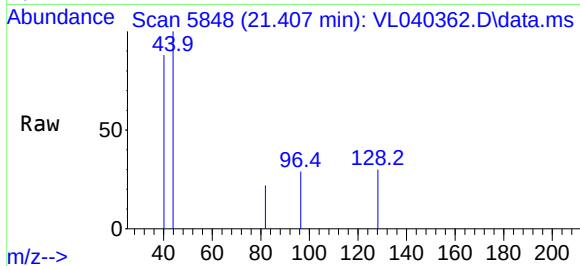




#79
Naphthalene
Concen: 0.000 ppbv
RT: 21.407 min Scan# 51
Delta R.T. 0.013 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

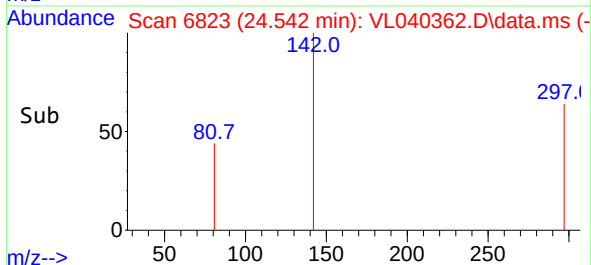
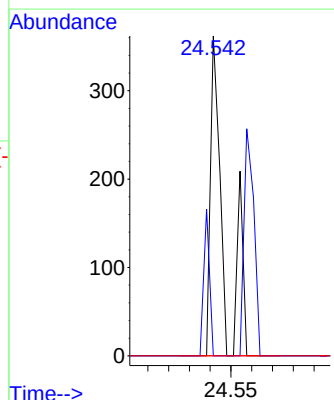
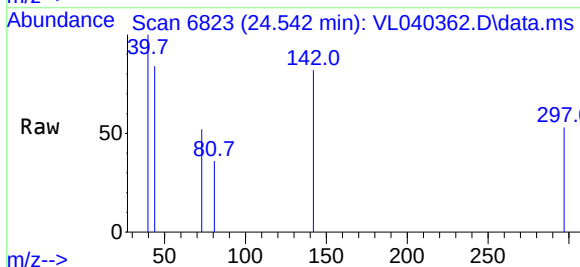
Instrument :
MSVOA_1
ClientSampleId :
VL0413ABL01

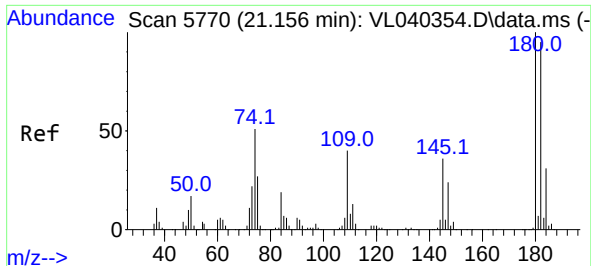
Tgt Ion:128 Resp: 44
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 9.4 14.0#



#80
Naphthalene,2-methyl-
Concen: 0.003 ppbv
RT: 24.542 min Scan# 6823
Delta R.T. 0.158 min
Lab File: VL040362.D
Acq: 13 Apr 2023 16:27

Tgt Ion:142 Resp: 150
Ion Ratio Lower Upper
142 100
141 0.0 65.1 97.7#
115 0.0 36.5 54.7#





#81

1,2,4-Trichlorobenzene

Concen: 0.001 ppbv

RT: 21.175 min Scan# 51

Delta R.T. 0.019 min

Lab File: VL040362.D

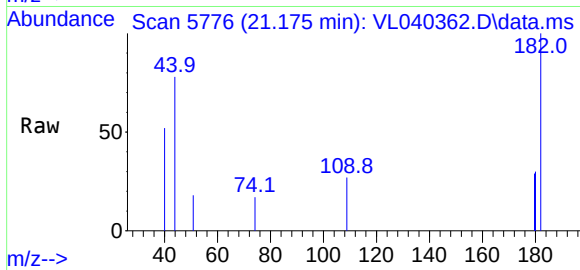
Acq: 13 Apr 2023 16:27

Instrument :

MSVOA_L

ClientSampleId :

VL0413ABL01



Tgt Ion:180 Resp: 141

Ion Ratio Lower Upper

180 100

182 287.9 77.7 116.5#

184 0.0 24.2 36.2#

