

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Mar 28 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.554	85	2353	0.088	ppbv	100
3) Chlorodifluoromethane	1.476	51	3006	0.110	ppbv #	40
4) Chloromethane	1.531	50	1330	0.122	ppbv #	53
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv #	42
6) Bromomethane	1.667	94	537	0.109	ppbv #	73
7) Chloroethane	1.703	64	616	0.141	ppbv #	49
8) Dichlorotetrafluoroethane	1.554	85	2353	0.104	ppbv	92
9) Propene	1.486	41	1664	0.135	ppbv #	44
11) Trichlorofluoromethane	1.878	101	2644	0.102	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	2551	0.120	ppbv #	81
13) Ethanol	1.716	45	721	0.750	ppbv	60
14) Bromoethene	1.780	108	956	0.117	ppbv #	11
15) Acetone	1.835	43	5179	0.205	ppbv	92
16) 1,3-Butadiene	1.609	39	1912	0.168	ppbv	94
17) tert-Butyl alcohol	2.046	59	3546	0.113	ppbv #	30
18) 1,1-Dichloroethene	2.033	96	1155	0.116	ppbv #	72
19) Isopropyl Alcohol	1.891	45	1838	0.129	ppbv #	49
20) Methylene Chloride	2.059	84	2388	0.254	ppbv #	88
21) Allyl Chloride	2.091	41	3040	0.171	ppbv #	77
22) trans-1,2-Dichloroethene	2.722	96	1512	0.130	ppbv	99
23) Vinyl Acetate	2.457	43	1746	0.166	ppbv #	1
24) 1,1-Dichloroethane	2.408	63	2446	0.114	ppbv #	92
25) Ethyl Acetate	2.842	43	6359	0.097	ppbv #	80
26) Hexane	2.823	57	3126	0.123	ppbv #	5
27) Carbon Disulfide	2.149	76	3075	0.113	ppbv #	1
28) Methyl tert-Butyl Ether	2.438	73	875	0.055	ppbv #	49
29) Chloroform	2.845	83	4120	0.111	ppbv	92
30) Cyclohexane	3.855	84	1113	0.051	ppbv #	1
31) cis-1,2-Dichloroethene	2.722	61	2587	0.101	ppbv	95
32) 1,1,1-Trichloroethane	3.366	97	2773	0.065	ppbv #	50
34) 2-Butanone	2.564	43	4331	0.113	ppbv	91
35) Carbon Tetrachloride	3.768	117	3523	0.087	ppbv #	71
36) Benzene	3.658	78	5031	0.096	ppbv #	82
37) 1,2-Dichloroethane	3.218	62	2942	0.098	ppbv	97
39) 1,2-Dichloropropane	3.959	63	135792	7.123	ppbv #	22
40) 1,4-Dioxane	4.616	88	843	0.085	ppbv #	25
42) Bromodichloromethane	4.490	83	4103	0.099	ppbv #	94
43) Methyl Methacrylate	4.878	69	930	0.042	ppbv #	1
45) t-1,3-Dichloropropene	6.419	75	1449	0.061	ppbv #	64
48) Dibromochloromethane	7.383	129	2284	0.067	ppbv	68
49) Bromoform	9.480	173	2928	0.095	ppbv	94
51) 2-Hexanone	7.448	43	4284	0.085	ppbv #	87
53) Toluene	6.930	91	3144	0.051	ppbv #	25

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 ALS Vial : 6 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
 VSTDICC0.1

Quant Time: Mar 28 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
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 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

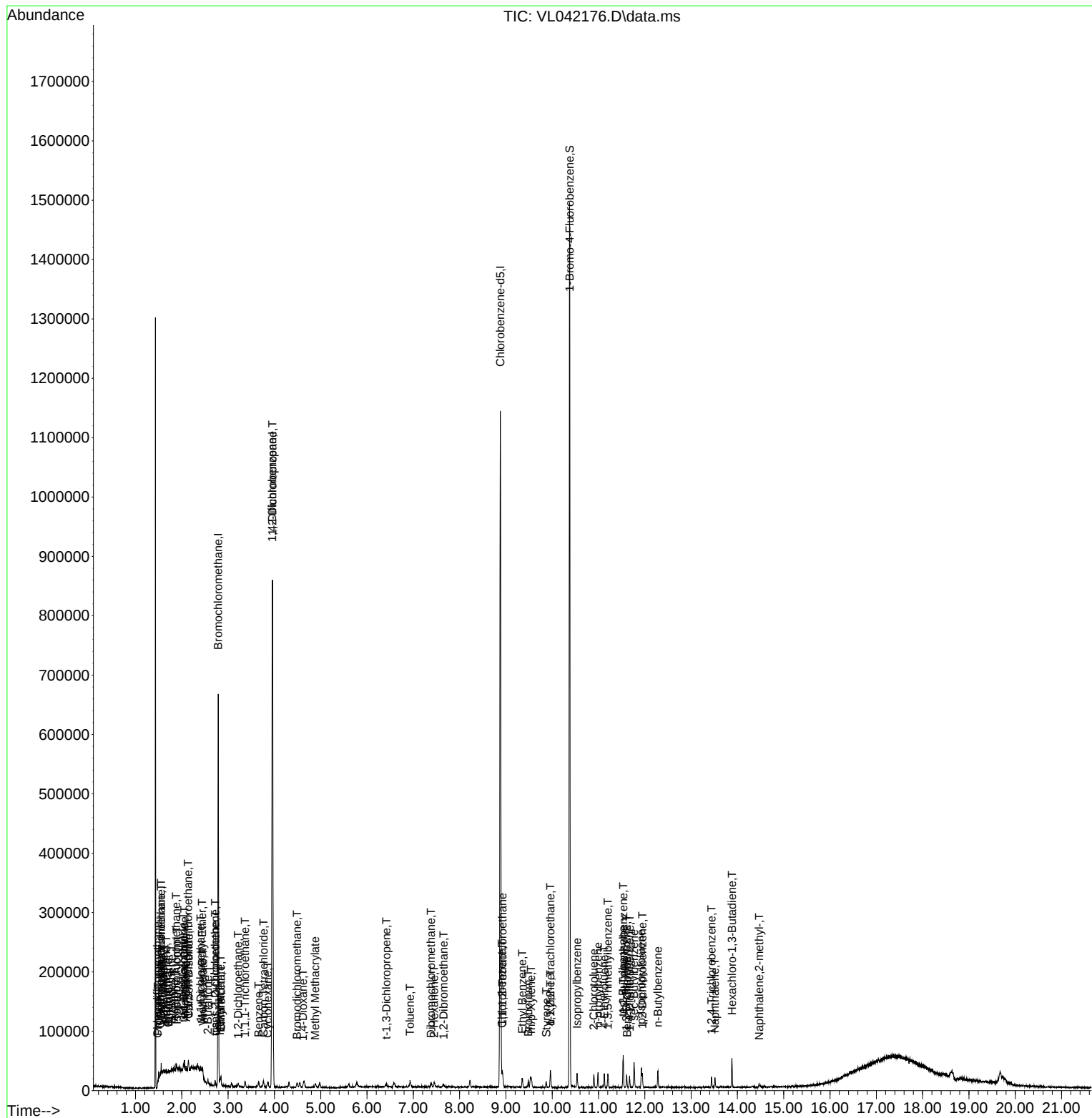
54) 1,2-Dibromoethane	7.652	107	1864	0.066	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.924	131	2963	0.112	ppbv #	1
57) Chlorobenzene	8.917	112	4904	0.107	ppbv #	74
58) Ethyl Benzene	9.354	91	8648	0.101	ppbv	93
59) m/p-Xylene	9.545	91	6005	0.088	ppbv #	12
60) o-Xylene	9.959	91	8048	0.118	ppbv	96
61) Styrene	9.872	104	1723	0.051	ppbv #	25
62) Isopropylbenzene	10.536	105	10359	0.101	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.959	83	1910	0.046	ppbv #	25
64) n-propylbenzene	10.989	120	2375	0.090	ppbv #	62
65) tert-Butylbenzene	11.526	119	9418	0.099	ppbv	94
66) Benzyl Chloride	11.617	91	844	0.084	ppbv #	86
67) sec-Butylbenzene	11.765	105	13775	0.105	ppbv	96
69) p-Isopropyltoluene	11.924	119	11366	0.100	ppbv	98
70) n-Butylbenzene	12.280	91	10697	0.092	ppbv	97
71) 2-Chlorotoluene	10.898	91	8347	0.105	ppbv	98
72) 4-Ethyltoluene	11.125	105	8579	0.101	ppbv #	84
73) 1,3,5-Trimethylbenzene	11.202	105	8407	0.113	ppbv	91
74) 1,2,4-Trimethylbenzene	11.536	105	10341	0.121	ppbv #	95
75) 1,3-Dichlorobenzene	11.604	146	4426	0.094	ppbv	94
76) 1,4-Dichlorobenzene	11.672	146	4552	0.097	ppbv	95
77) 1,2-Dichlorobenzene	11.947	146	4867	0.106	ppbv	93
78) Hexachloro-1,3-Butadiene	13.882	225	4755	0.102	ppbv	94
79) Naphthalene	13.513	128	7882	0.084	ppbv #	92
80) Naphthalene,2-methyl-	14.471	142	2174	0.048	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.442	180	2557	0.059	ppbv	98

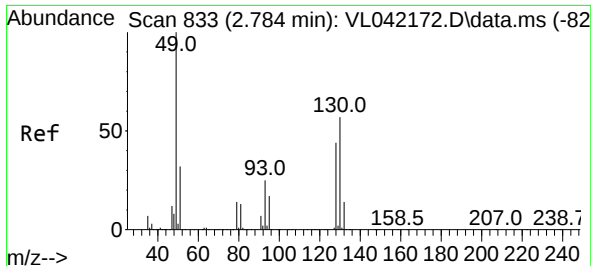
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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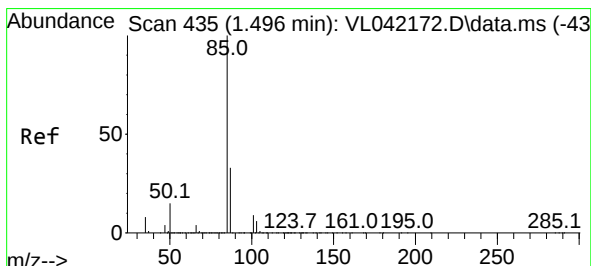
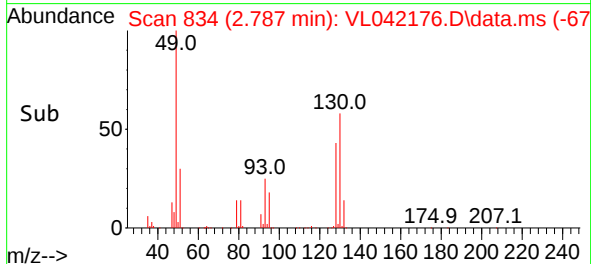
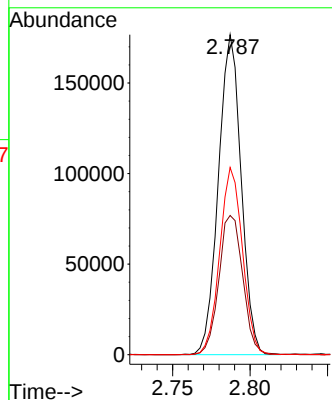
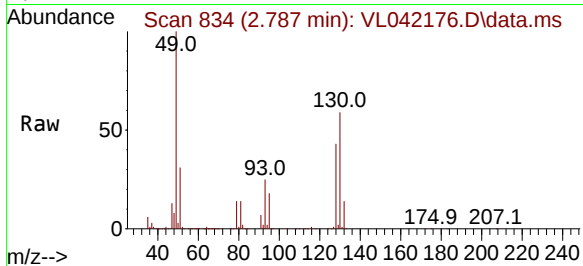




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

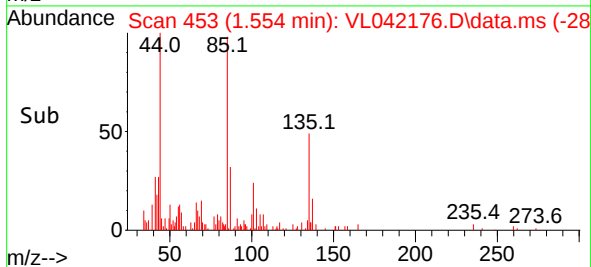
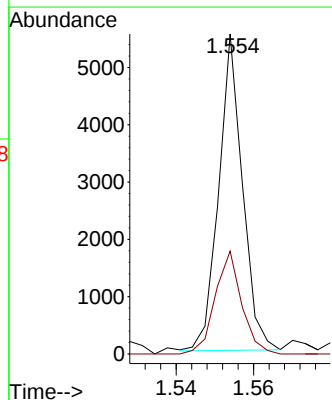
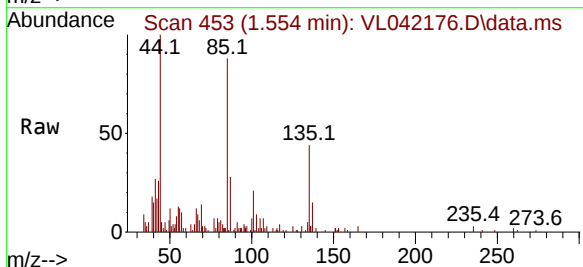
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

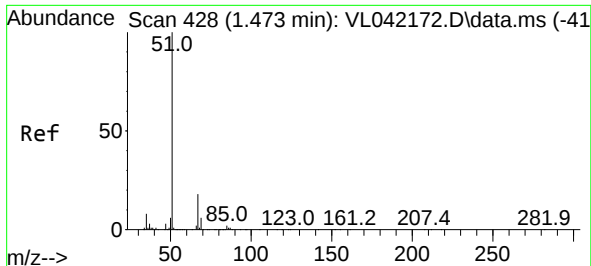
Tgt Ion: 49 Resp: 180740
 Ion Ratio Lower Upper
 49 100
 128 45.6 22.9 68.5
 130 58.5 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.088 ppbv
 RT: 1.554 min Scan# 453
 Delta R.T. 0.058 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353
 Ion Ratio Lower Upper
 85 100
 87 32.5 26.1 39.1

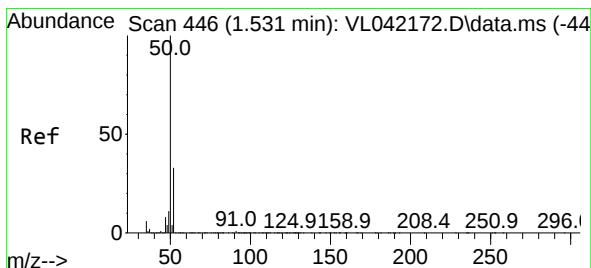
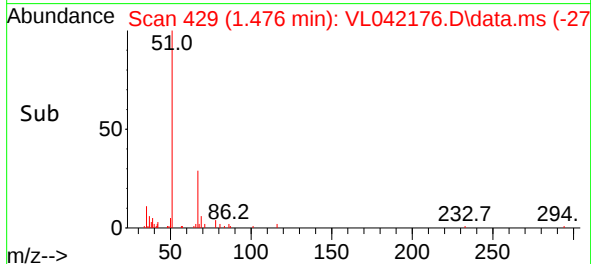
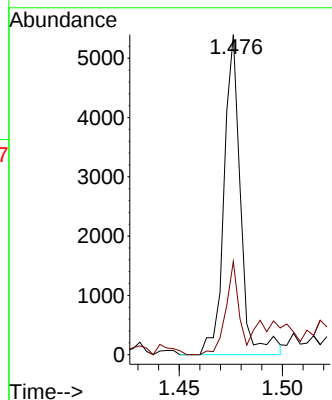
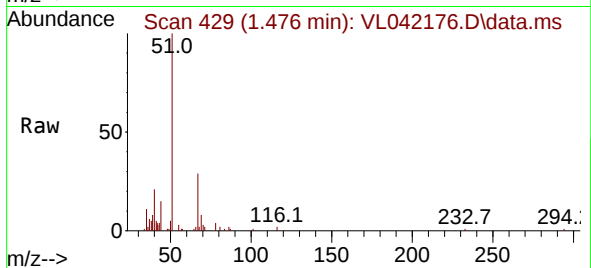




#3
Chlorodifluoromethane
Concen: 0.110 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

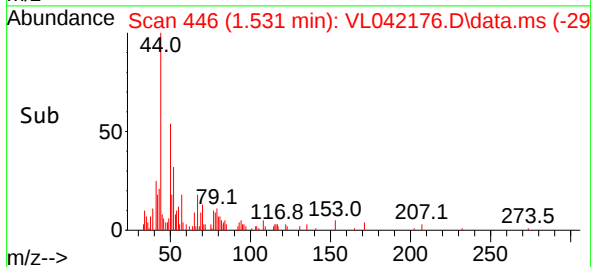
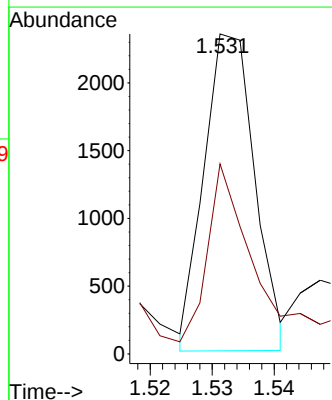
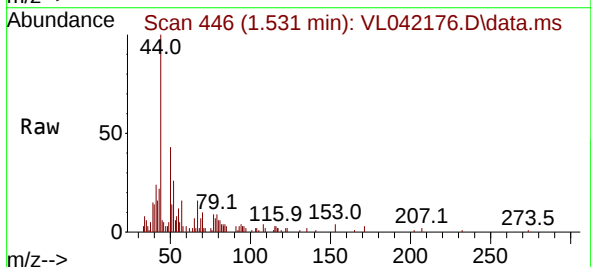
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

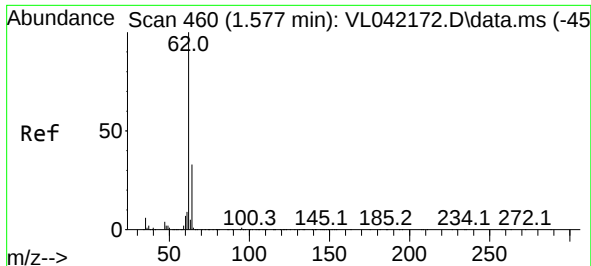
Tgt Ion: 51 Resp: 3006
Ion Ratio Lower Upper
51 100
67 45.8 15.0 22.6#



#4
Chloromethane
Concen: 0.122 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 50 Resp: 1330
Ion Ratio Lower Upper
50 100
52 59.3 26.1 39.1#

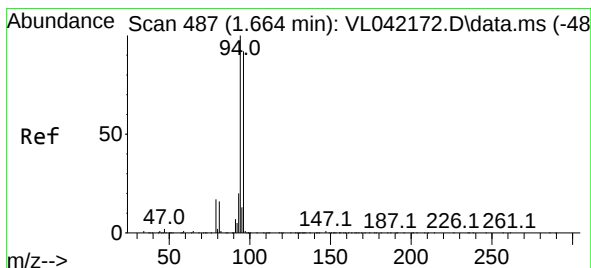
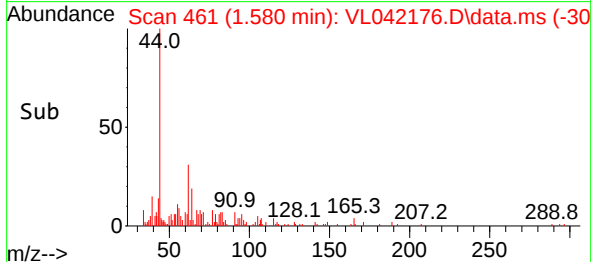
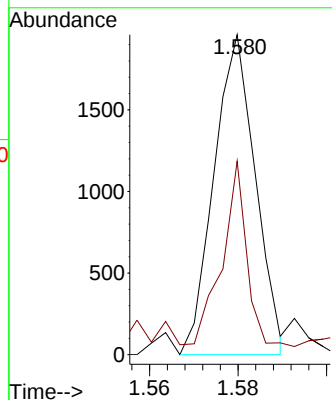
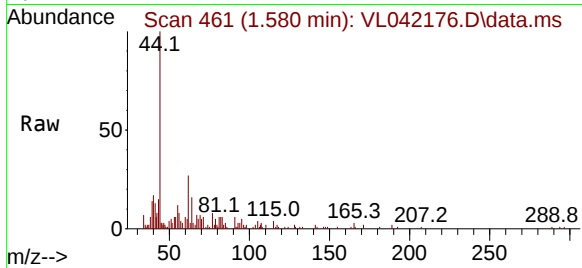




#5
 Vinyl Chloride
 Concen: 0.115 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

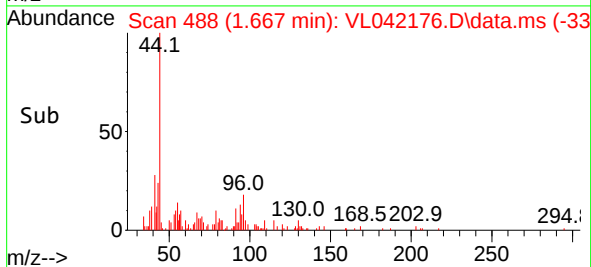
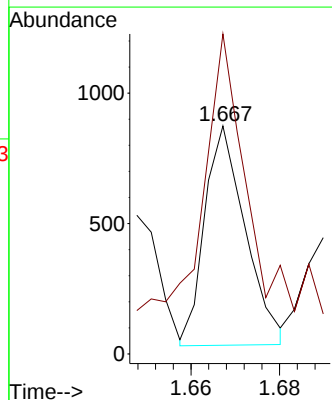
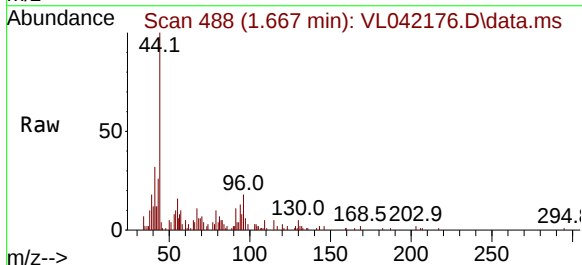
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

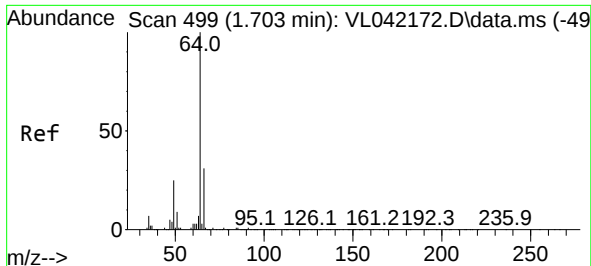
Tgt Ion: 62 Resp: 1274
 Ion Ratio Lower Upper
 62 100
 64 66.4 26.6 40.0#



#6
 Bromomethane
 Concen: 0.109 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 94 Resp: 537
 Ion Ratio Lower Upper
 94 100
 96 116.6 73.1 109.7#

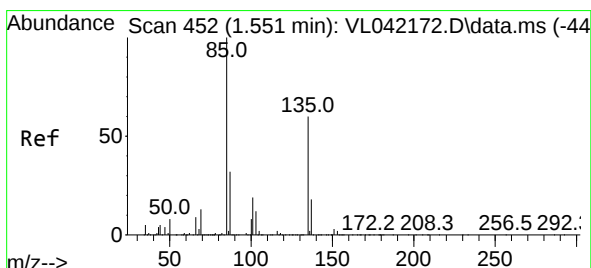
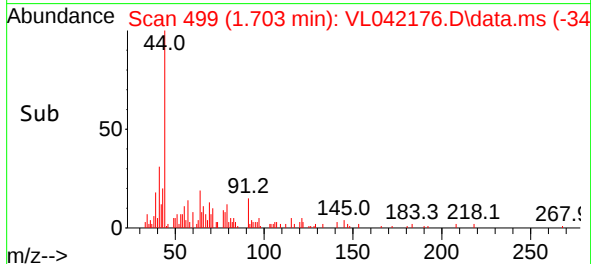
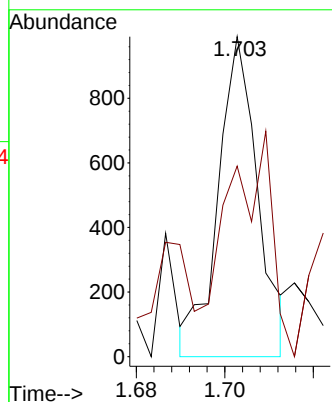
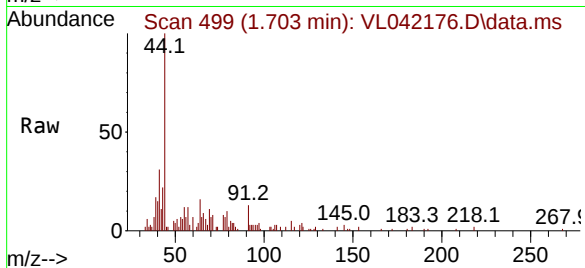




#7
Chloroethane
Concen: 0.141 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

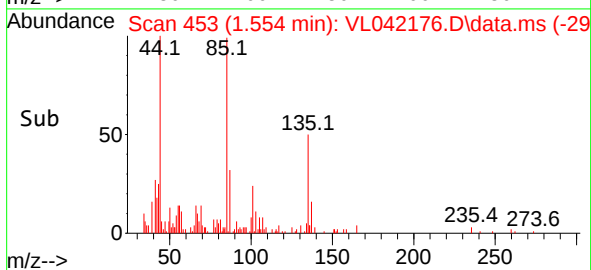
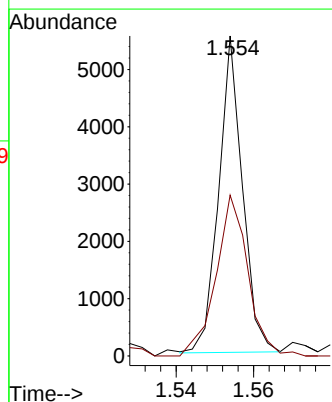
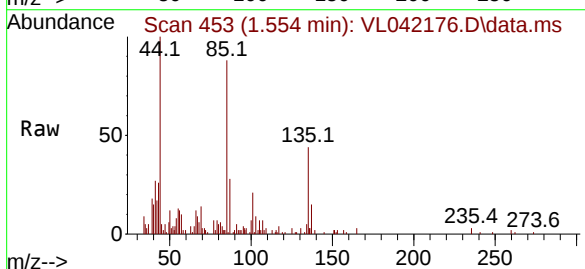
Instrument :
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ClientSampleId :
VSTDIC0.1

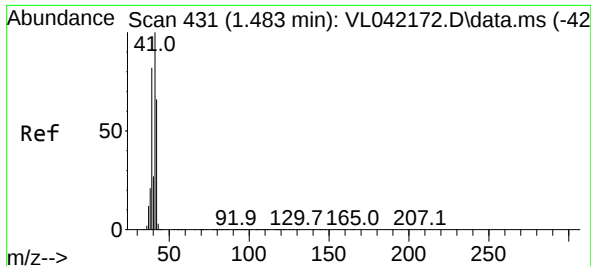
Tgt Ion: 64 Resp: 616
Ion Ratio Lower Upper
64 100
66 59.5 25.2 37.8#



#8
Dichlorotetrafluoroethane
Concen: 0.104 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 85 Resp: 2353
Ion Ratio Lower Upper
85 100
135 71.7 52.4 78.6





#9

Propene

Concen: 0.135 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

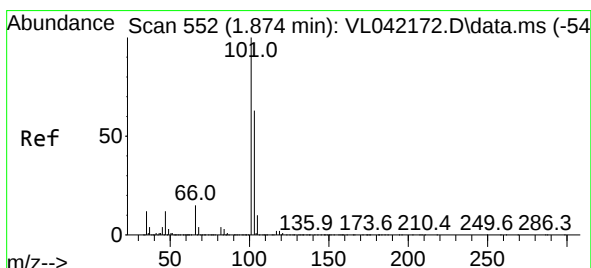
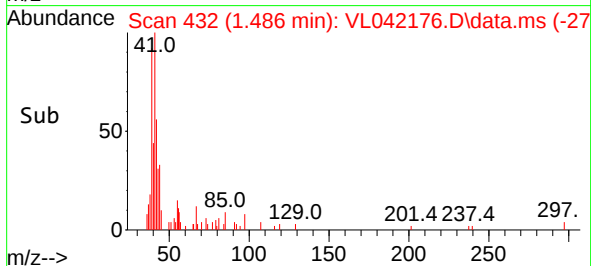
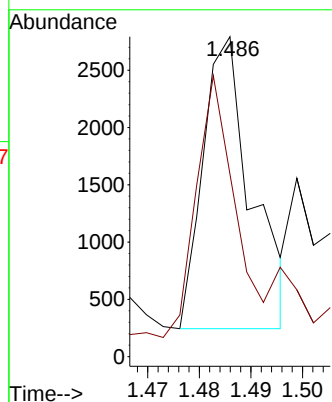
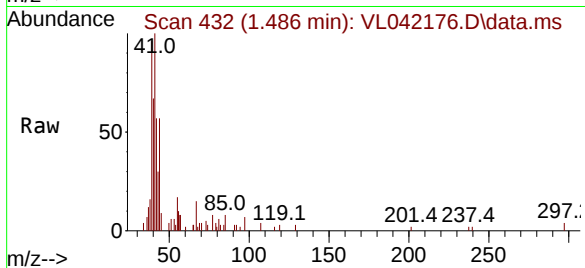
VSTDIC0.1

Tgt Ion: 41 Resp: 1664

Ion Ratio Lower Upper

41 100

42 115.3 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.102 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042176.D

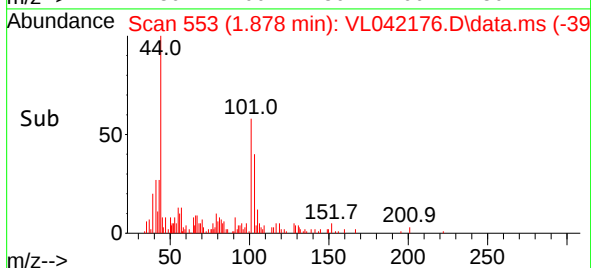
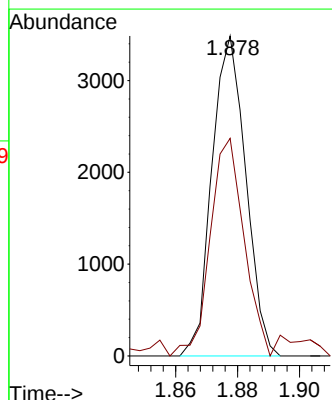
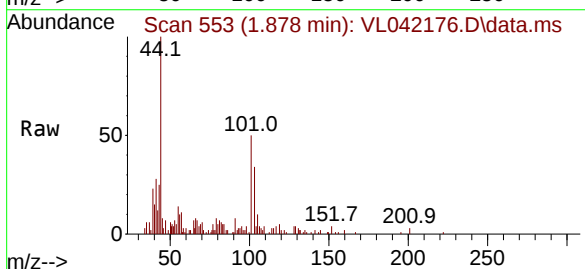
Acq: 27 Mar 2025 10:32

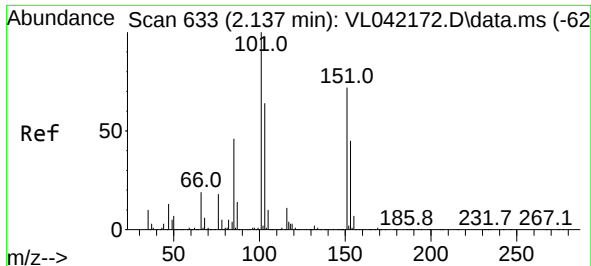
Tgt Ion:101 Resp: 2644

Ion Ratio Lower Upper

101 100

103 64.7 50.2 75.2

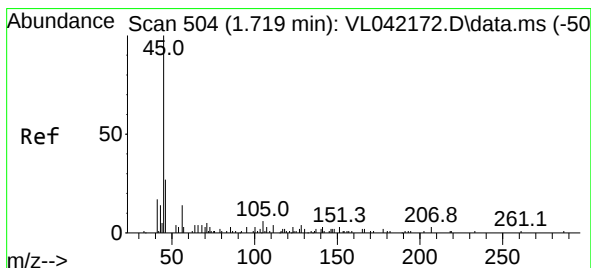
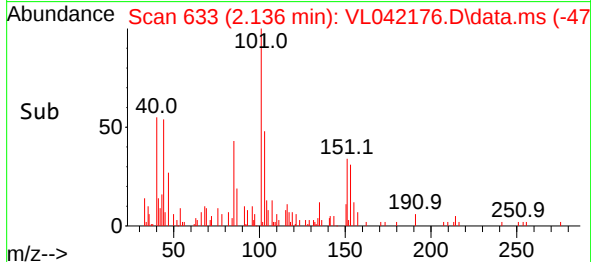
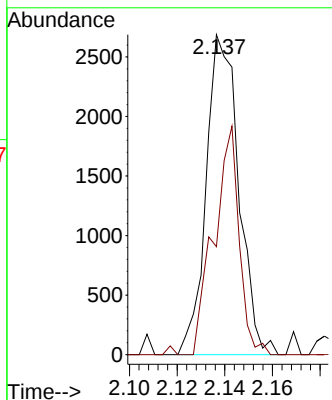
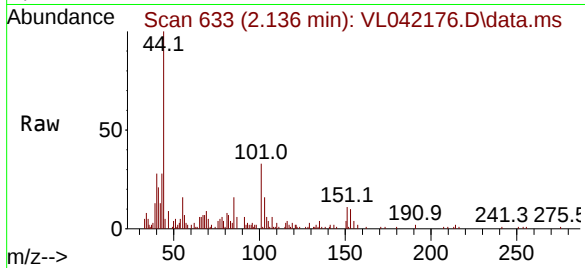




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.120 ppbv
RT: 2.136 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

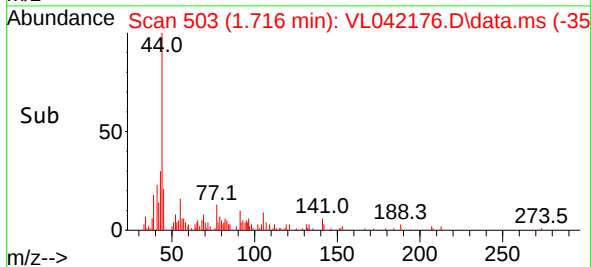
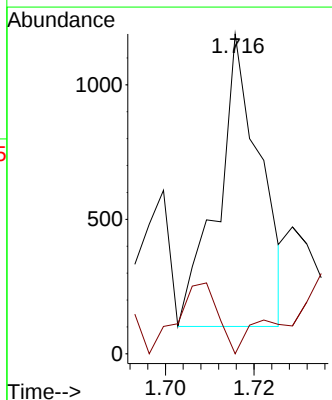
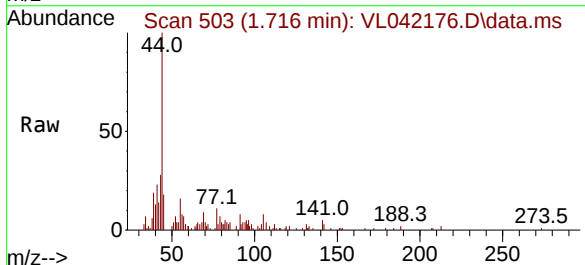
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

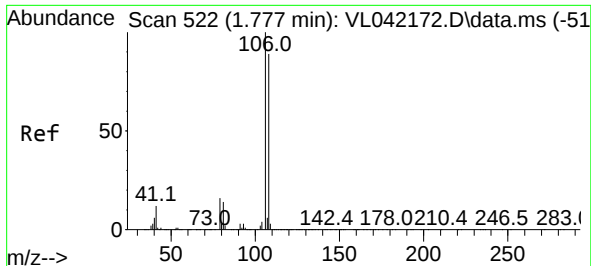
Tgt Ion:101 Resp: 2551
Ion Ratio Lower Upper
101 100
151 55.7 57.1 85.7#



#13
Ethanol
Concen: 0.750 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 721
Ion Ratio Lower Upper
45 100
46 22.9 20.2 80.8





#14

Bromoethene

Concen: 0.117 ppbv

RT: 1.780 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

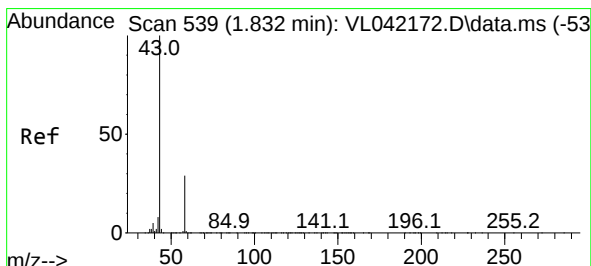
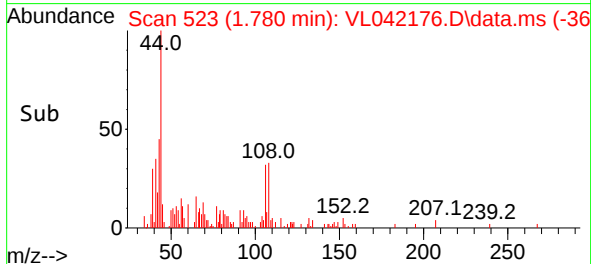
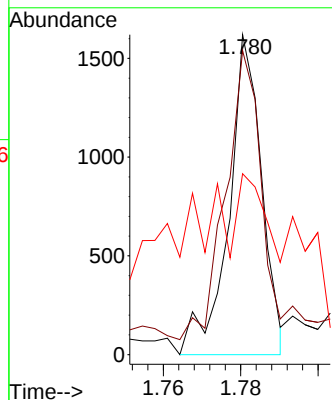
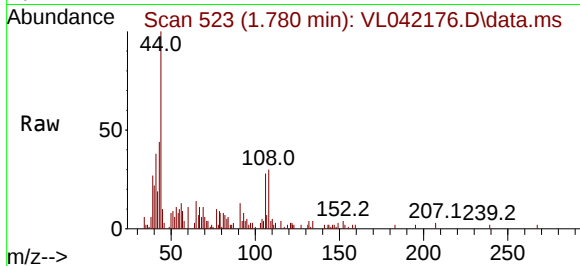
Tgt Ion:108 Resp: 956

Ion Ratio Lower Upper

108 100

106 177.0 86.8 130.2#

79 120.6 15.0 22.6#



#15

Acetone

Concen: 0.205 ppbv

RT: 1.835 min Scan# 540

Delta R.T. 0.003 min

Lab File: VL042176.D

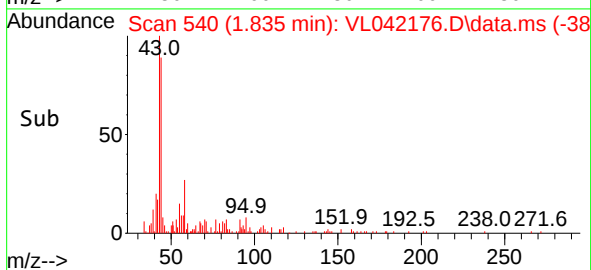
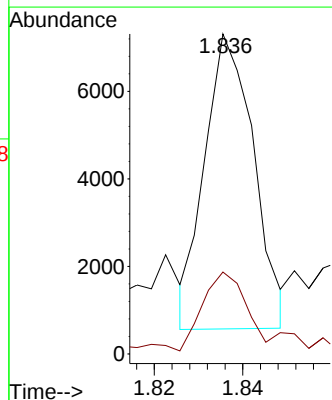
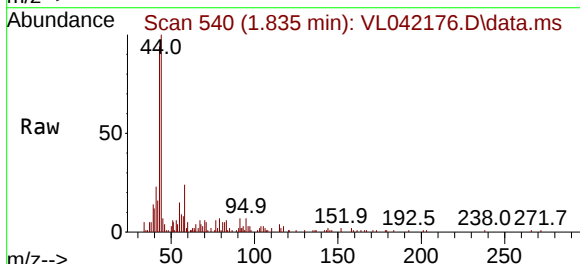
Acq: 27 Mar 2025 10:32

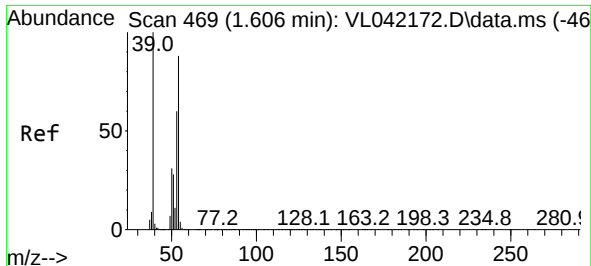
Tgt Ion: 43 Resp: 5179

Ion Ratio Lower Upper

43 100

58 33.1 23.2 34.8





#16

1,3-Butadiene

Concen: 0.168 ppbv

RT: 1.609 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

ClientSampleId :

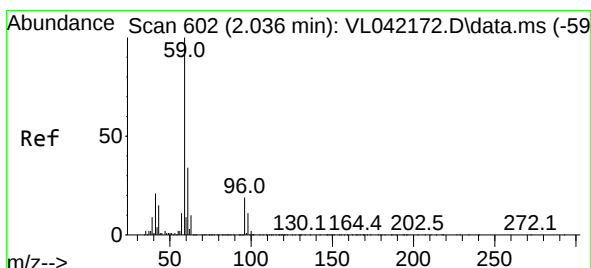
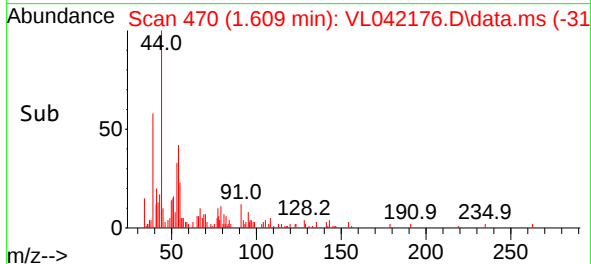
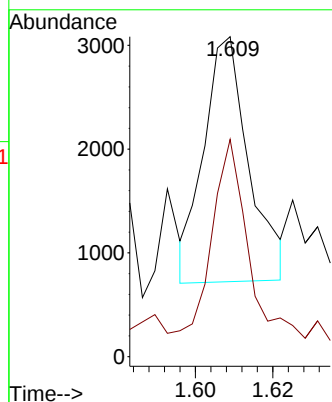
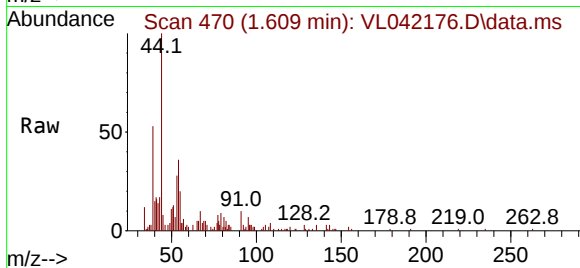
VSTDIC0.1

Tgt Ion: 39 Resp: 1912

Ion Ratio Lower Upper

39 100

54 70.7 60.7 91.1



#17

tert-Butyl alcohol

Concen: 0.113 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.010 min

Lab File: VL042176.D

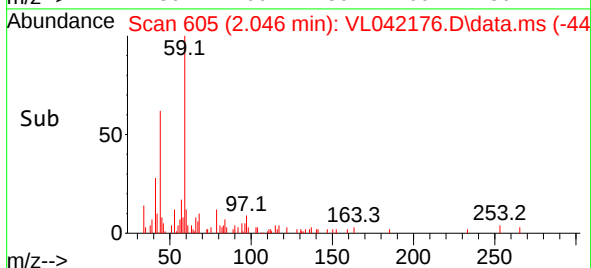
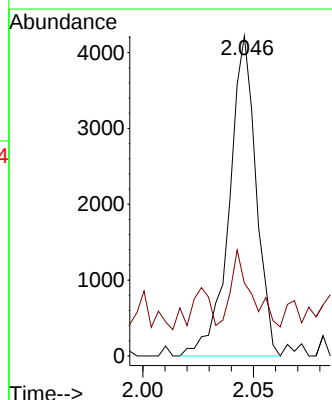
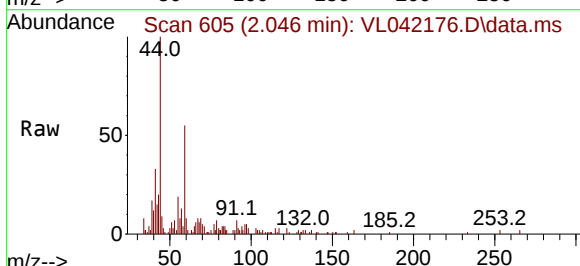
Acq: 27 Mar 2025 10:32

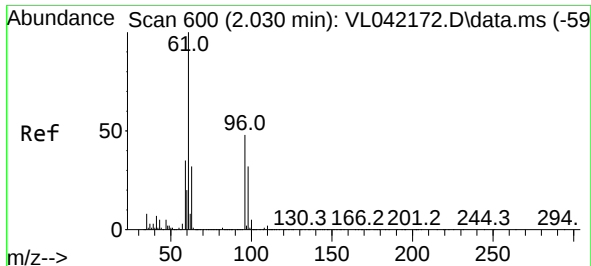
Tgt Ion: 59 Resp: 3546

Ion Ratio Lower Upper

59 100

57 37.8 8.9 13.3#

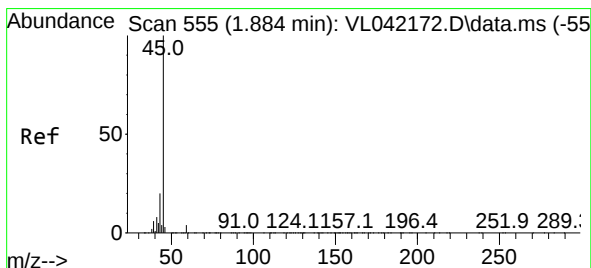
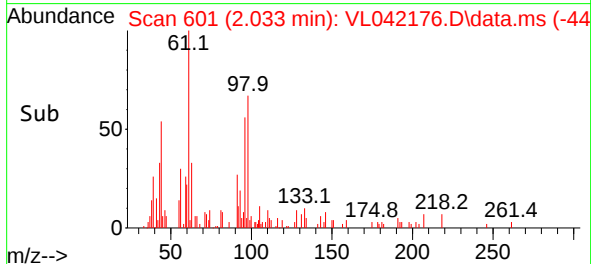
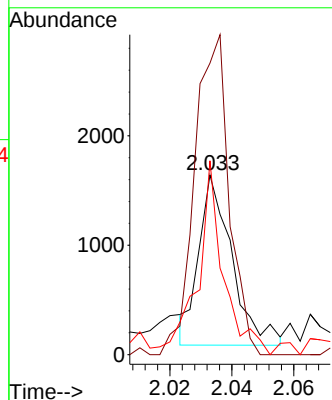
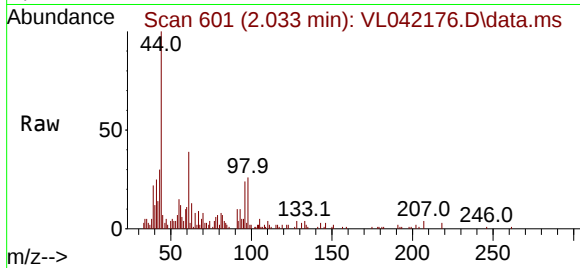




#18
1,1-Dichloroethene
Concen: 0.116 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

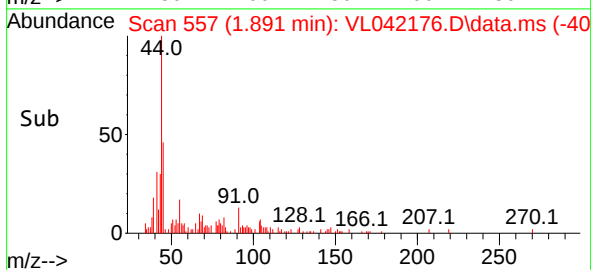
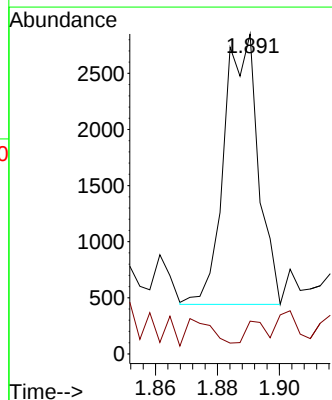
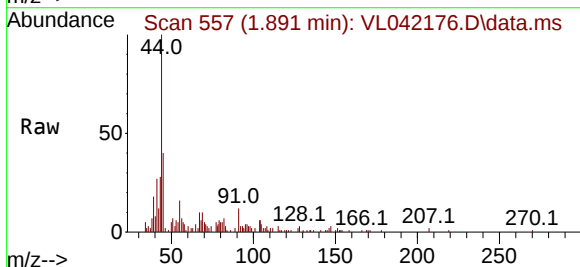
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

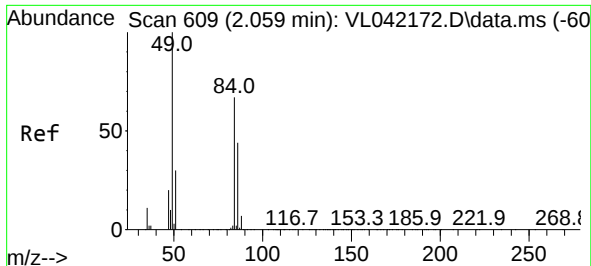
Tgt Ion: 96 Resp: 1155
Ion Ratio Lower Upper
96 100
61 179.9 167.6 251.4
98 112.6 53.5 80.3#



#19
Isopropyl Alcohol
Concen: 0.129 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 45 Resp: 1838
Ion Ratio Lower Upper
45 100
58 12.5 36.9 55.3#

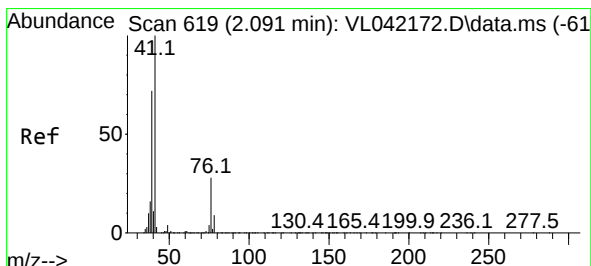
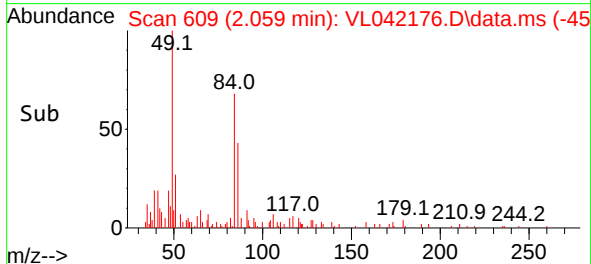
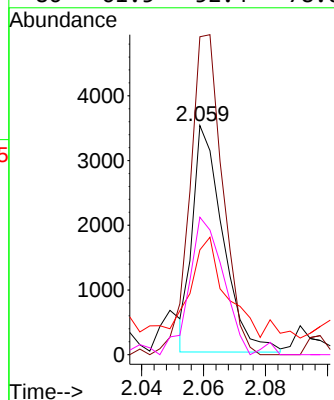
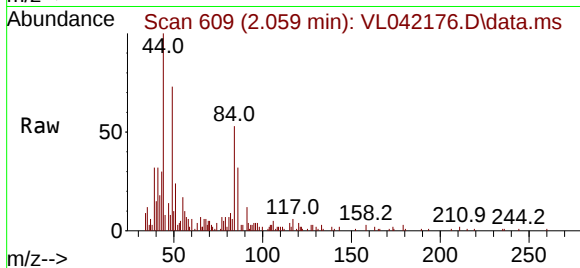




#20
Methylene Chloride
Concen: 0.254 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

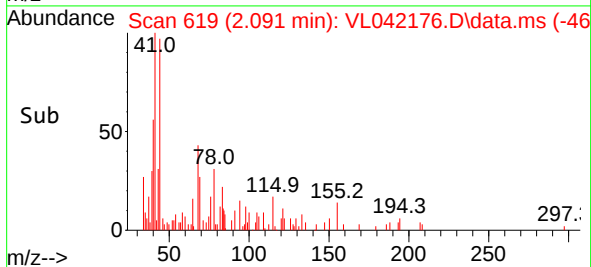
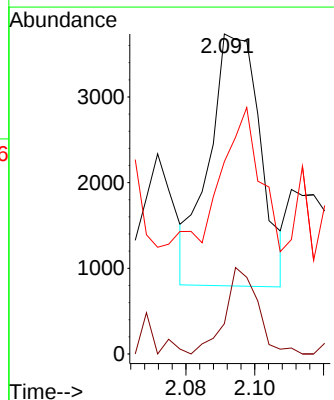
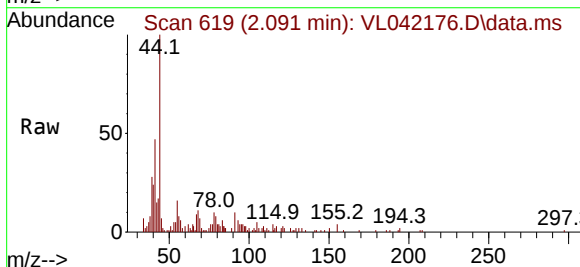
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

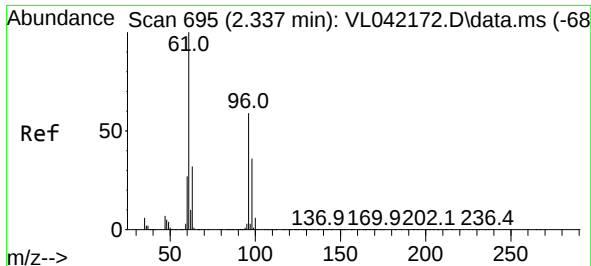
Tgt Ion: 84	Resp: 2388
Ion Ratio	Lower Upper
84 100	
49 132.5	120.2 180.4
51 37.3	37.4 56.0#
86 61.5	52.4 78.6



#21
Allyl Chloride
Concen: 0.171 ppbv
RT: 2.091 min Scan# 619
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 41	Resp: 3040		
Ion Ratio	Lower	Upper	
41 100			
76 21.8	24.1	36.1#	
39 98.7	61.1	91.7#	

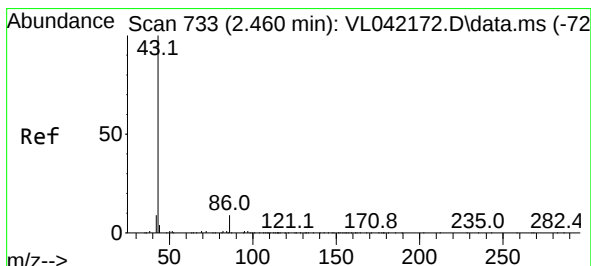
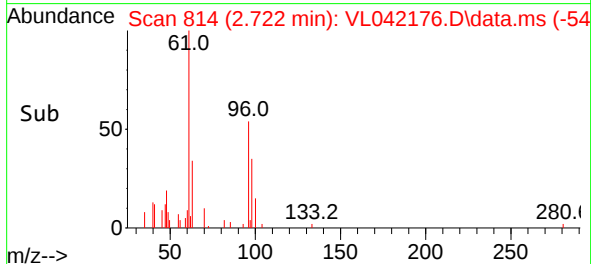
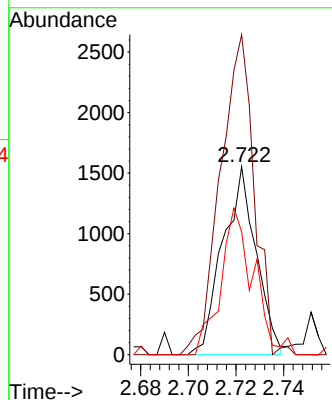
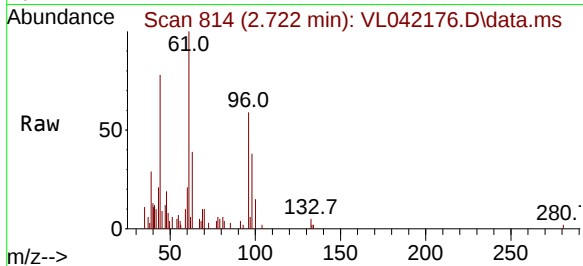




#22
trans-1,2-Dichloroethene
Concen: 0.130 ppbv
RT: 2.722 min Scan# 814
Delta R.T. 0.385 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

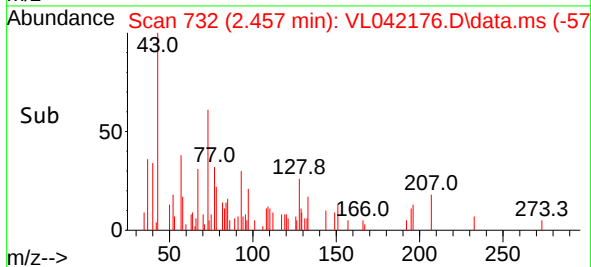
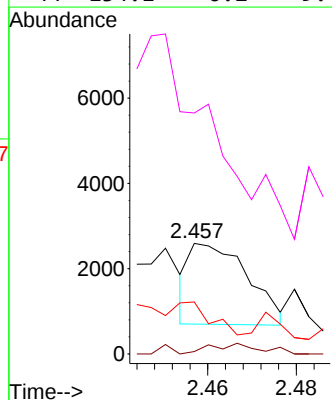
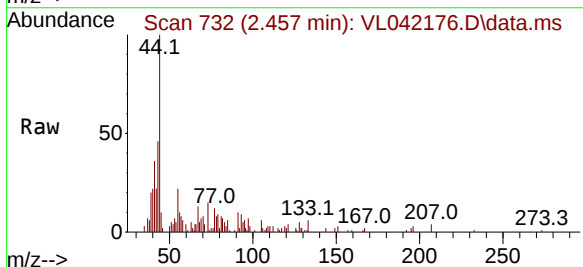
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

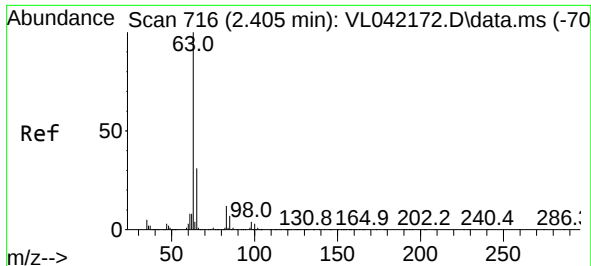
Tgt Ion: 96 Resp: 1512
Ion Ratio Lower Upper
96 100
61 170.3 136.6 204.8
98 65.4 49.4 74.2



#23
Vinyl Acetate
Concen: 0.166 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 43 Resp: 1746
Ion Ratio Lower Upper
43 100
86 3.5 5.5 8.3#
42 32.0 8.6 13.0#
44 134.1 6.2 9.4#

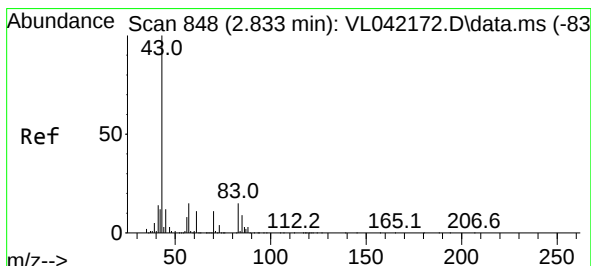
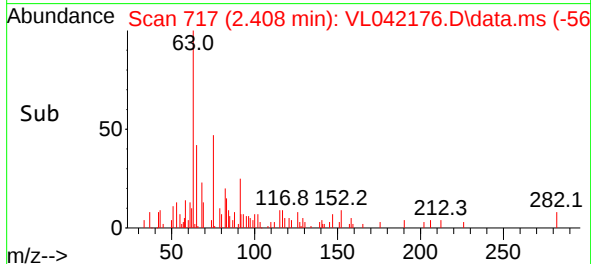
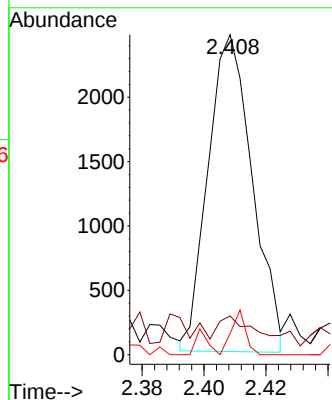
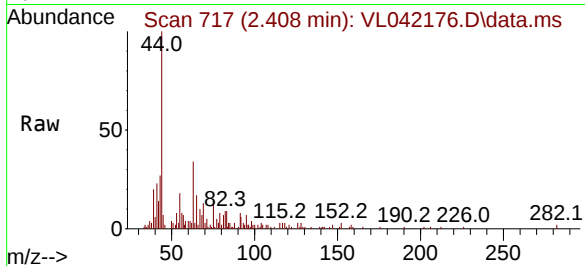




#24
1,1-Dichloroethane
Concen: 0.114 ppbv
RT: 2.408 min Scan# 716
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

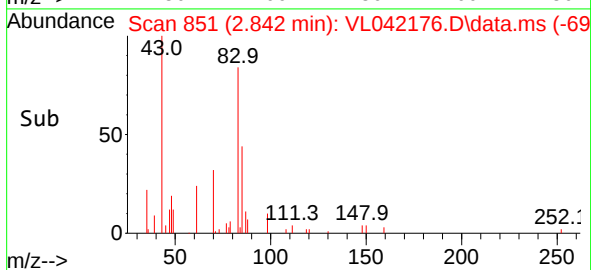
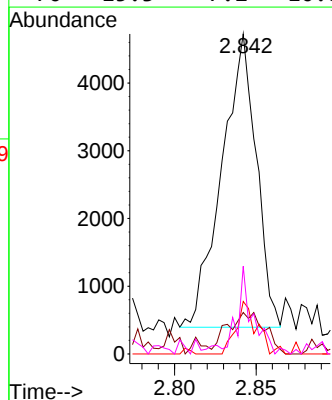
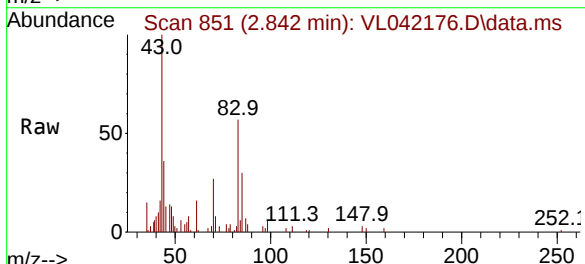
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

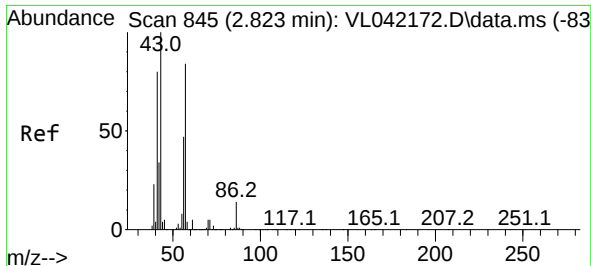
Tgt Ion:	63	Resp:	2446
Ion Ratio	Lower	Upper	
63	100		
98	6.3	2.3	6.8
100	6.9	1.6	4.7#



#25
Ethyl Acetate
Concen: 0.097 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	43	Resp:	6359
Ion Ratio	Lower	Upper	
43	100		
45	22.8	8.2	12.2#
61	11.2	7.3	10.9#
70	15.3	7.2	10.8#

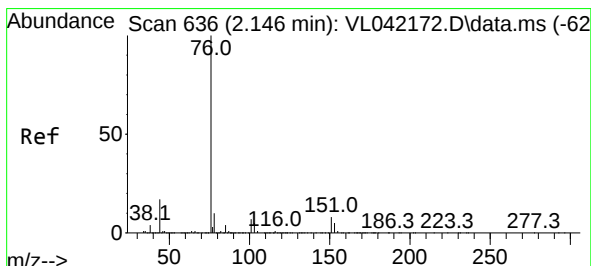
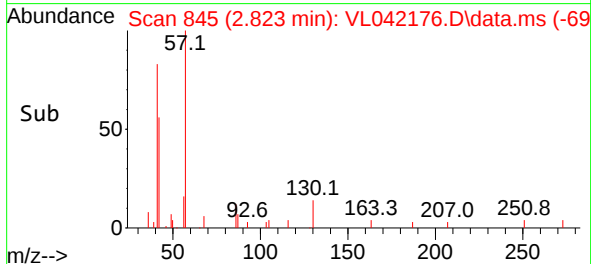
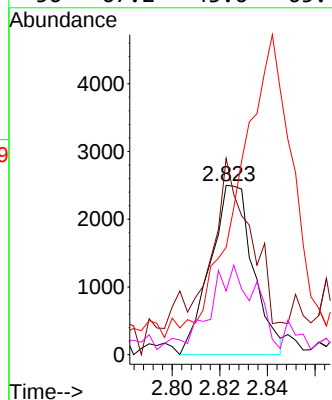
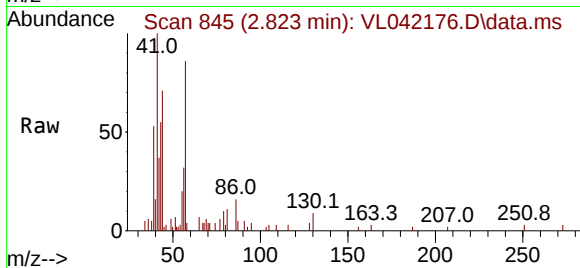




#26
Hexane
Concen: 0.123 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

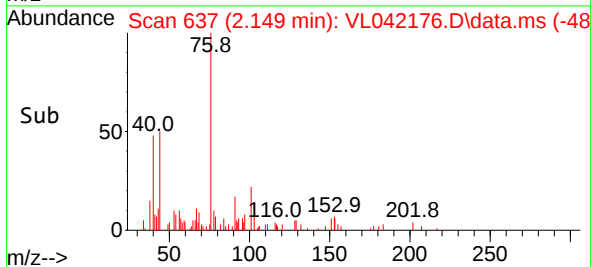
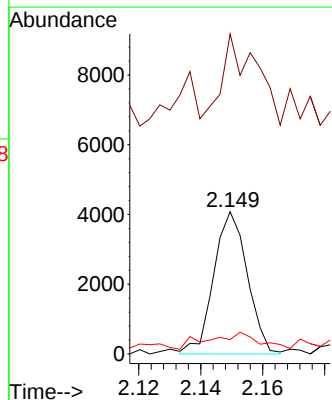
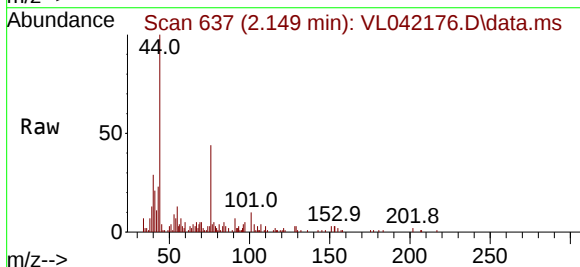
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

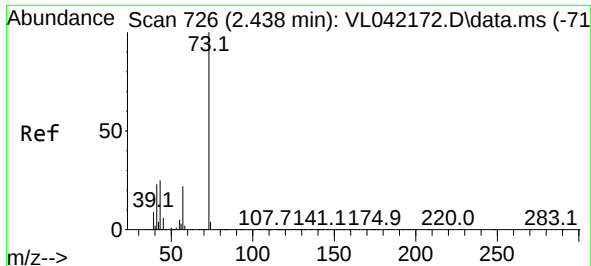
Tgt Ion:	57	Resp:	3126
Ion	Ratio	Lower	Upper
57	100		
41	96.0	76.6	114.8
43	0.0	207.8	311.8#
56	67.2	43.6	65.4#



#27
Carbon Disulfide
Concen: 0.113 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	76	Resp:	3075
Ion	Ratio	Lower	Upper
76	100		
44	436.3	14.7	22.1#
78	28.7	9.3	13.9#

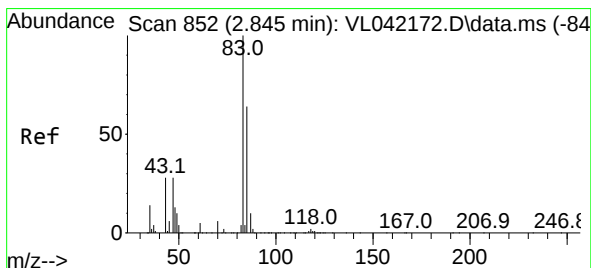
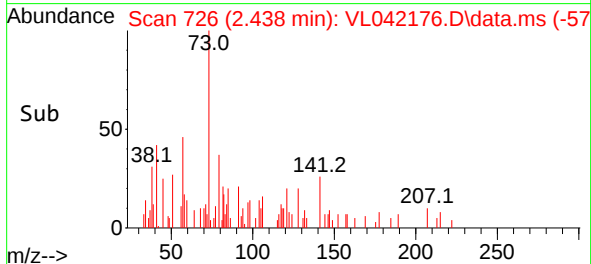
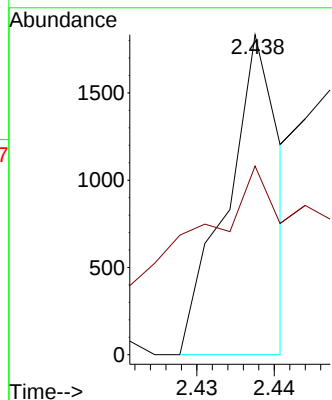
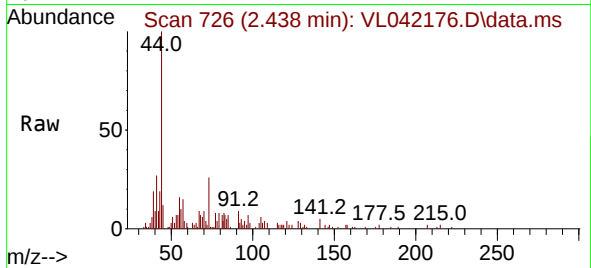




#28
Methyl tert-Butyl Ether
Concen: 0.055 ppbv
RT: 2.438 min Scan# 71
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

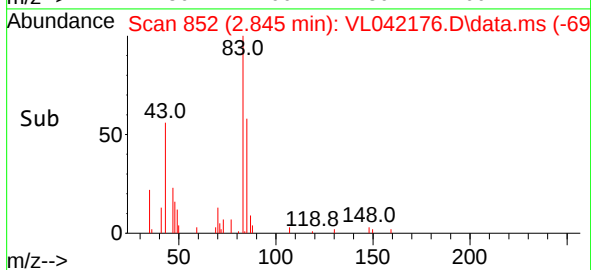
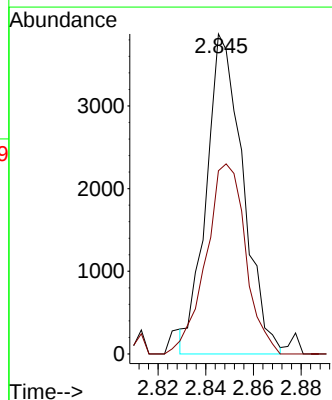
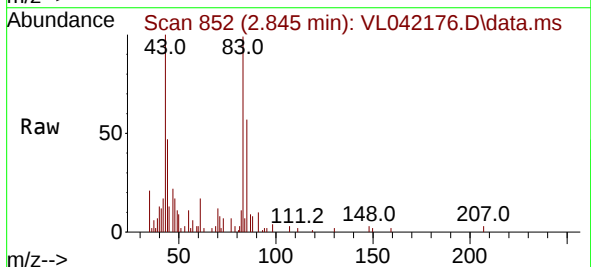
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

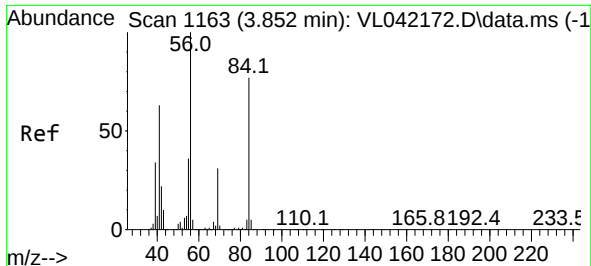
Tgt Ion: 73 Resp: 875
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#



#29
Chloroform
Concen: 0.111 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 83 Resp: 4120
Ion Ratio Lower Upper
83 100
85 58.4 51.4 77.2

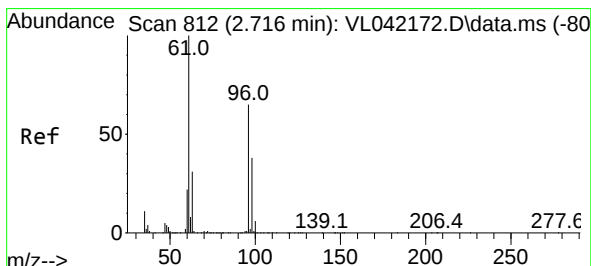
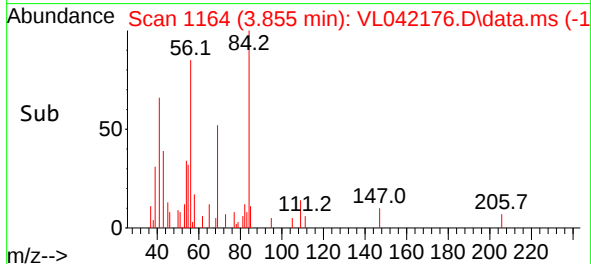
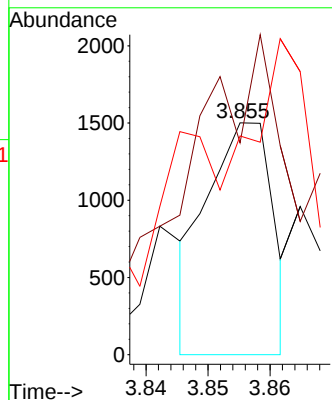
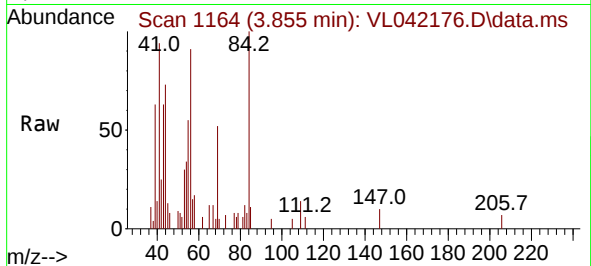




#30
Cyclohexane
Concen: 0.051 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

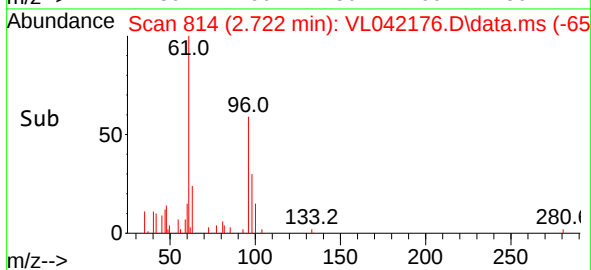
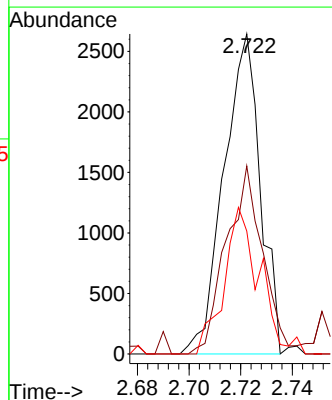
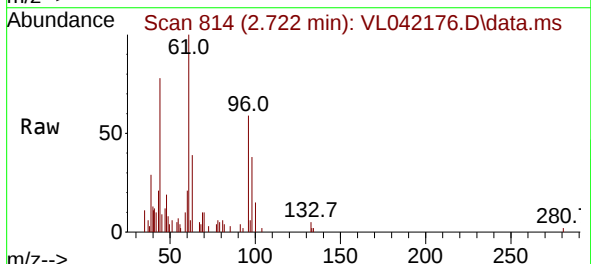
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

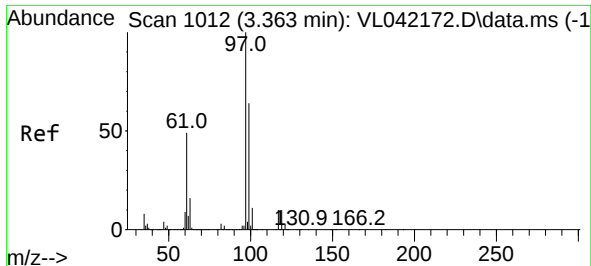
Tgt Ion: 84 Resp: 1113
Ion Ratio Lower Upper
84 100
56 0.0 102.8 154.2#
41 0.0 66.5 99.7#



#31
cis-1,2-Dichloroethene
Concen: 0.101 ppbv
RT: 2.722 min Scan# 814
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 61 Resp: 2587
Ion Ratio Lower Upper
61 100
96 58.7 51.8 77.8
98 38.4 30.6 46.0

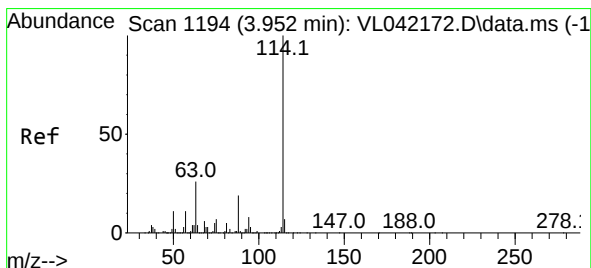
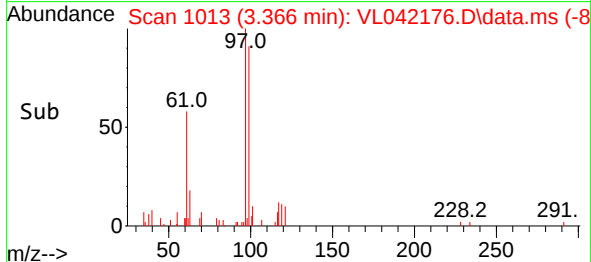
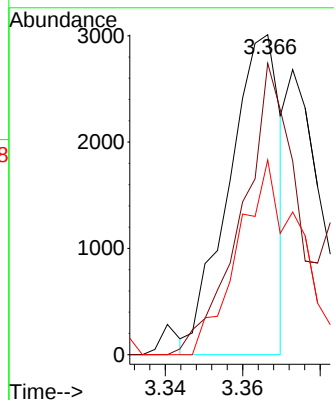
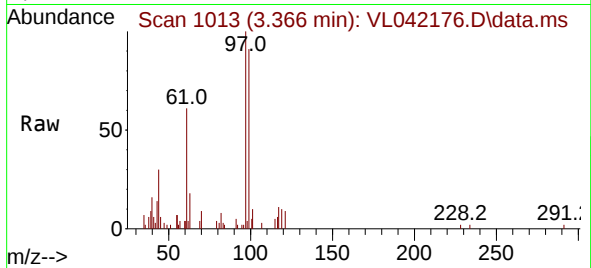




#32
 1,1,1-Trichloroethane
 Concen: 0.065 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

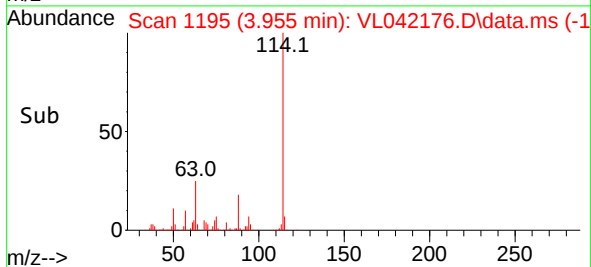
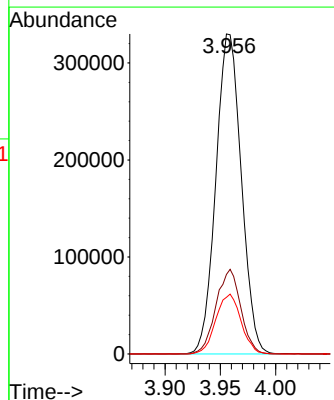
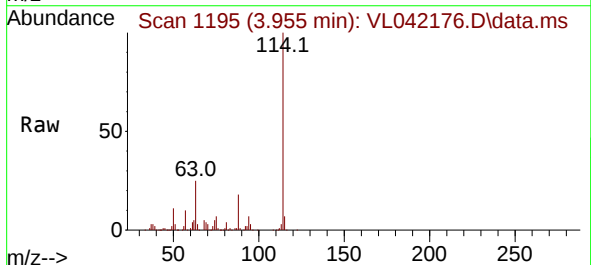
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

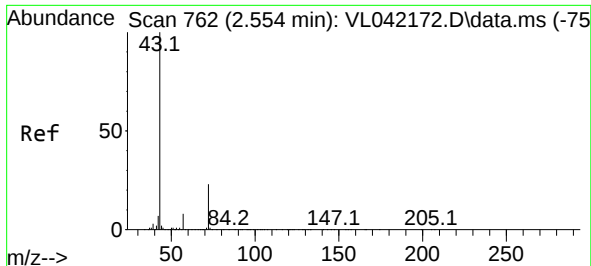
Tgt Ion: 97 Resp: 2773
 Ion Ratio Lower Upper
 97 100
 99 111.5 51.5 77.3#
 61 73.8 38.7 58.1#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 114 Resp: 528028
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.7 31.1
 88 18.5 15.0 22.4

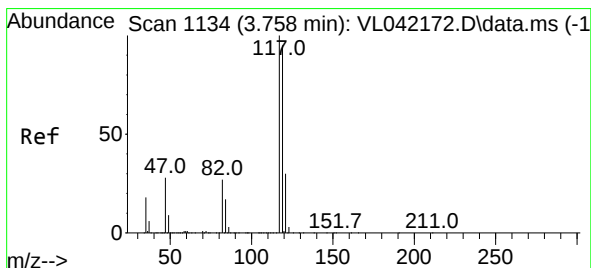
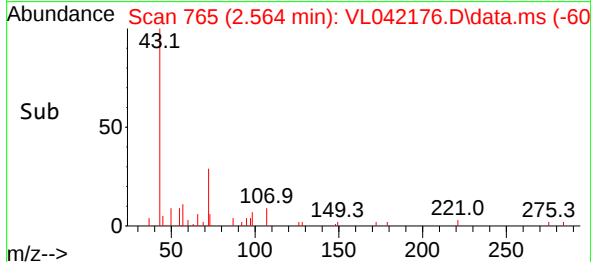
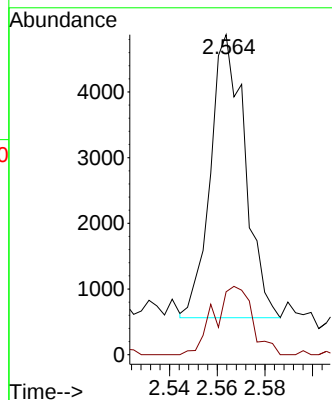
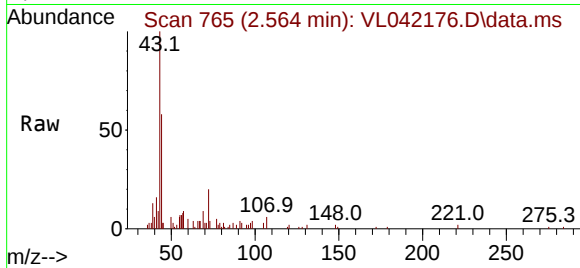




#34
2-Butanone
Concen: 0.113 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

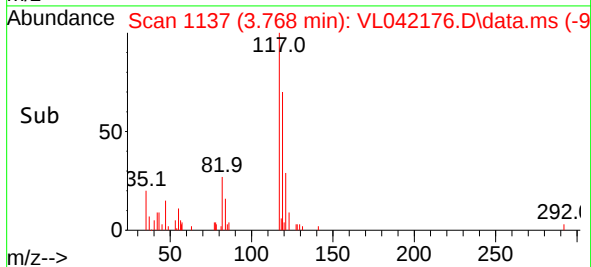
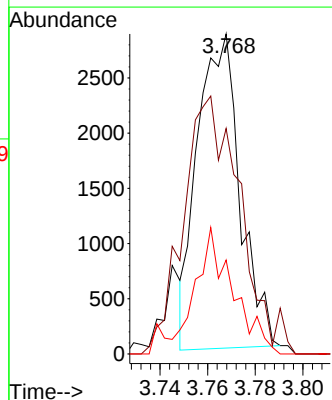
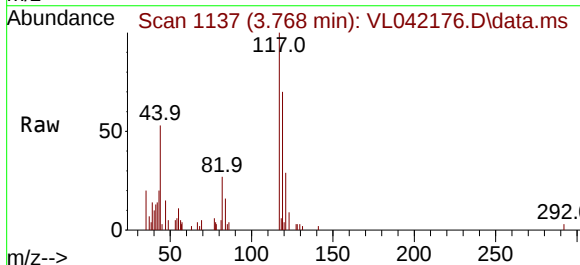
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

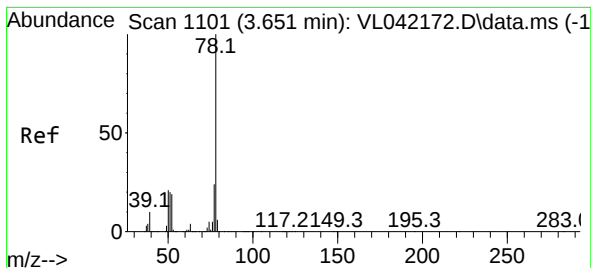
Tgt Ion: 43 Resp: 4331
Ion Ratio Lower Upper
43 100
72 27.0 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.087 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 117 Resp: 3523
Ion Ratio Lower Upper
117 100
119 57.7 76.2 114.2#
121 30.1 24.2 36.4





#36

Benzene

Concen: 0.096 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

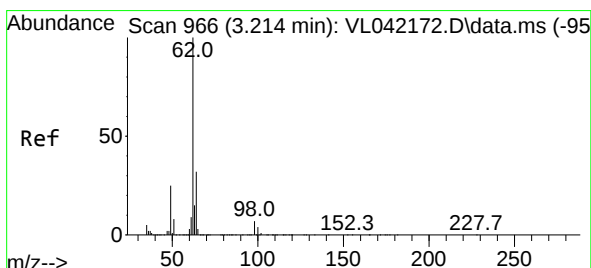
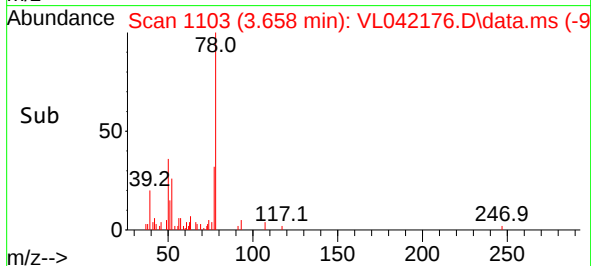
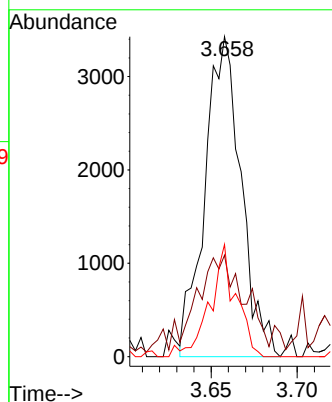
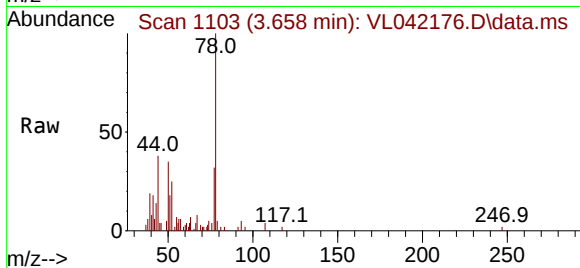
Tgt Ion: 78 Resp: 5031

Ion Ratio Lower Upper

78 100

77 27.2 19.1 28.7

50 35.0 16.6 24.8#



#37

1,2-Dichloroethane

Concen: 0.098 ppbv

RT: 3.218 min Scan# 967

Delta R.T. 0.003 min

Lab File: VL042176.D

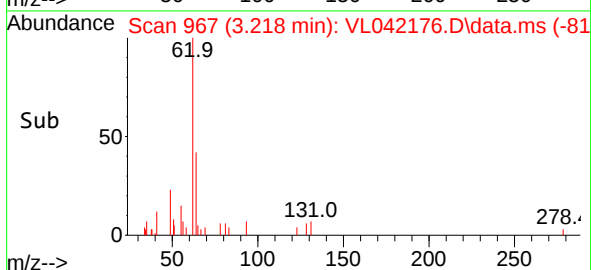
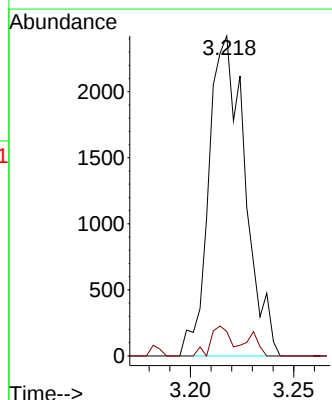
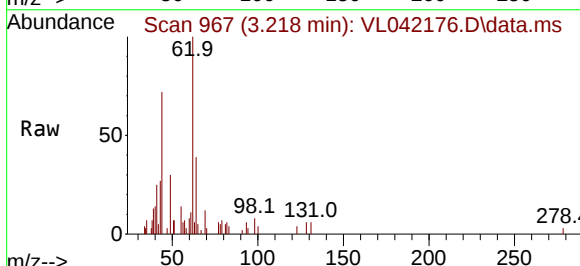
Acq: 27 Mar 2025 10:32

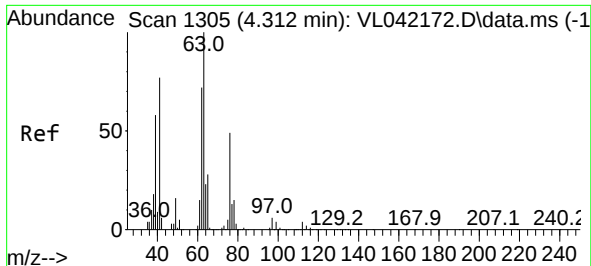
Tgt Ion: 62 Resp: 2942

Ion Ratio Lower Upper

62 100

98 7.7 5.4 8.2





#39

1,2-Dichloropropane

Concen: 7.123 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

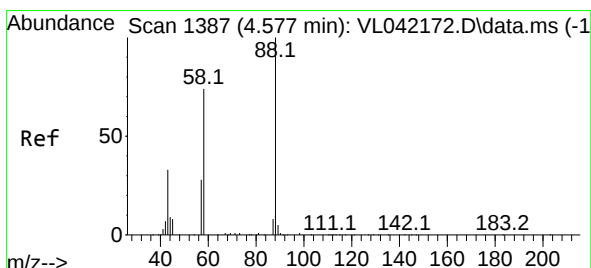
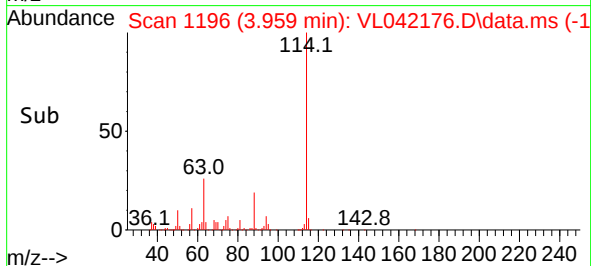
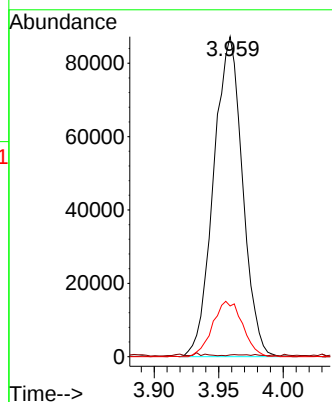
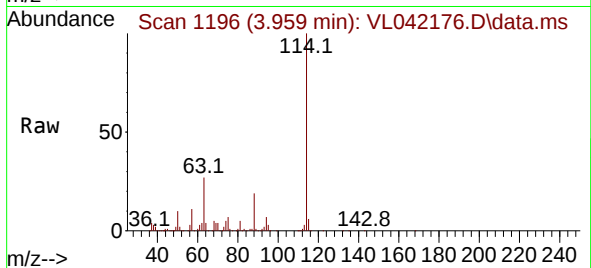
Tgt Ion: 63 Resp: 135792

Ion Ratio Lower Upper

63 100

41 0.3 61.7 92.5#

62 15.9 57.6 86.4#



#40

1,4-Dioxane

Concen: 0.085 ppbv

RT: 4.616 min Scan# 1399

Delta R.T. 0.039 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion: 88 Resp: 843

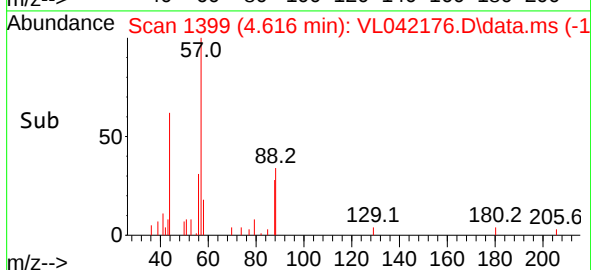
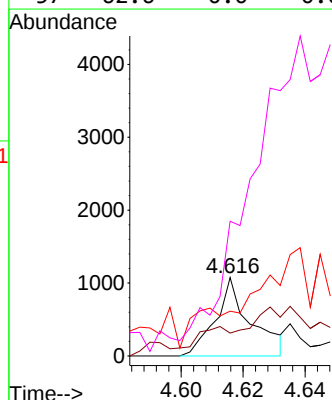
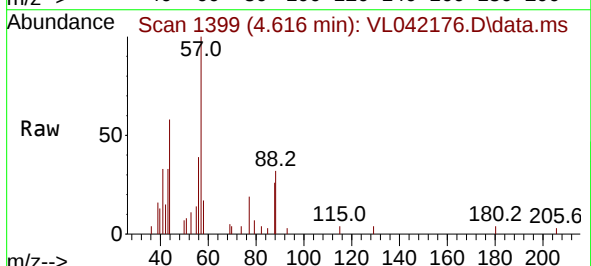
Ion Ratio Lower Upper

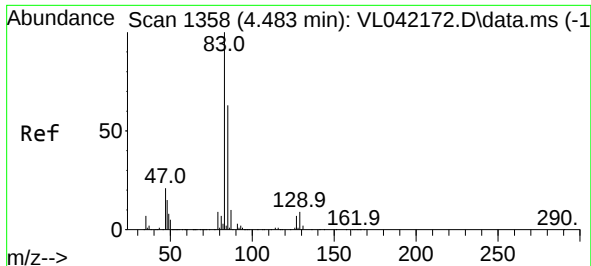
88 100

58 0.0 62.7 94.1#

43 47.9 23.0 34.4#

57 62.6 0.0 0.0#

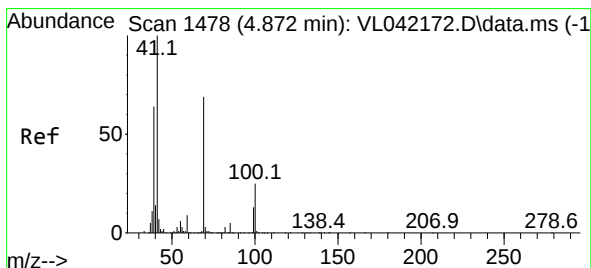
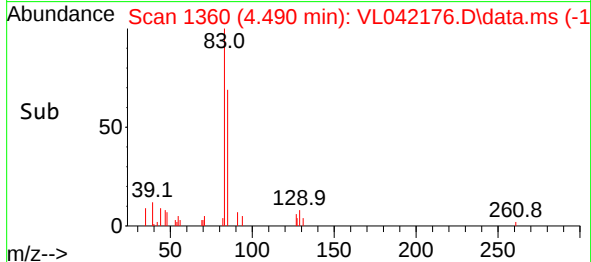
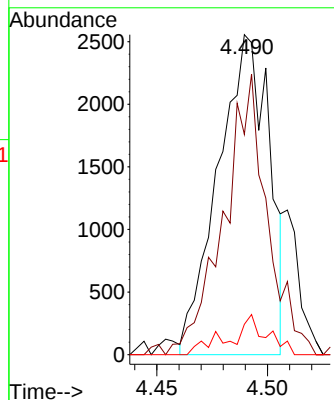
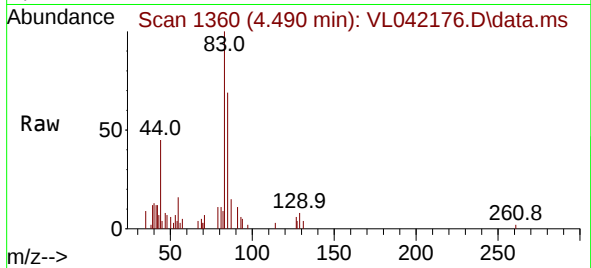




#42
Bromodichloromethane
Concen: 0.099 ppbv
RT: 4.490 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

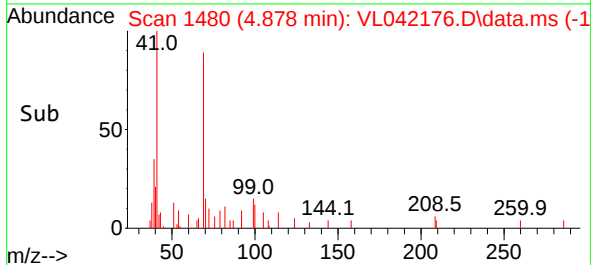
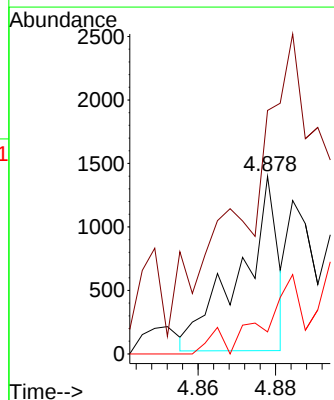
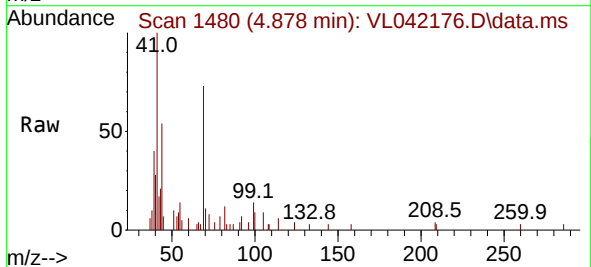
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

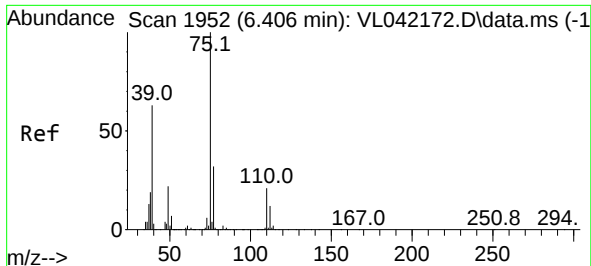
Tgt Ion: 83 Resp: 4103
Ion Ratio Lower Upper
83 100
85 67.5 50.5 75.7
127 9.8 5.9 8.9#



#43
Methyl Methacrylate
Concen: 0.042 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 69 Resp: 930
Ion Ratio Lower Upper
69 100
41 0.0 123.8 185.6#
100 0.0 28.4 42.6#





#45

t-1,3-Dichloropropene

Concen: 0.061 ppbv

RT: 6.419 min Scan# 1952

Delta R.T. 0.013 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

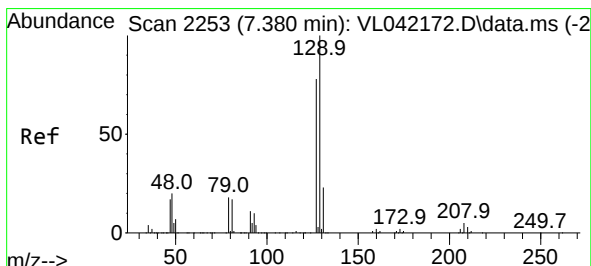
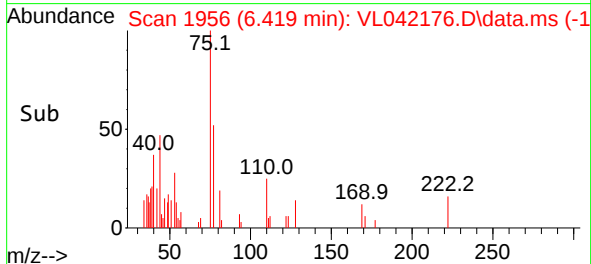
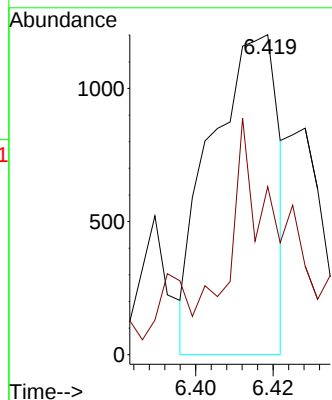
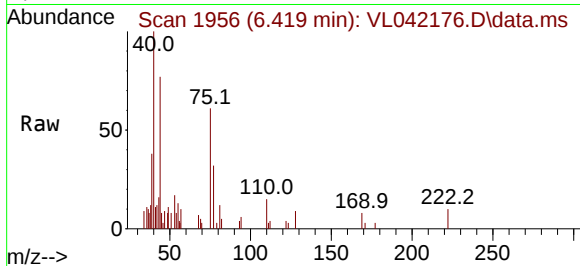
VSTDIC0.1

Tgt Ion: 75 Resp: 1449

Ion Ratio Lower Upper

75 100

77 52.5 26.0 39.0#



#48

Dibromochloromethane

Concen: 0.067 ppbv

RT: 7.383 min Scan# 2254

Delta R.T. 0.003 min

Lab File: VL042176.D

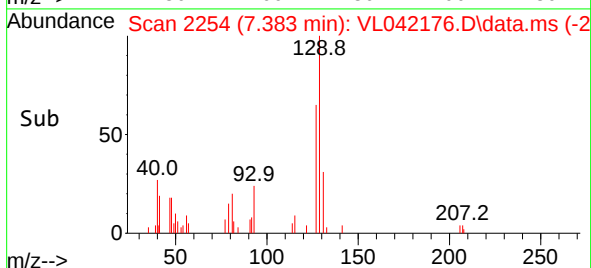
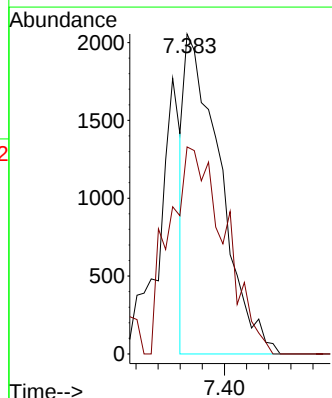
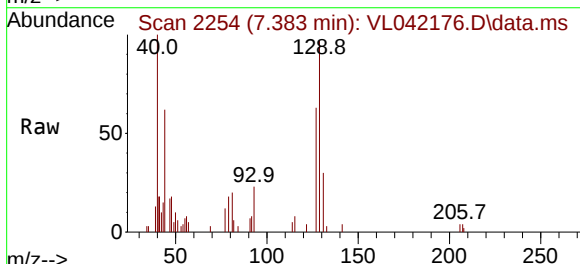
Acq: 27 Mar 2025 10:32

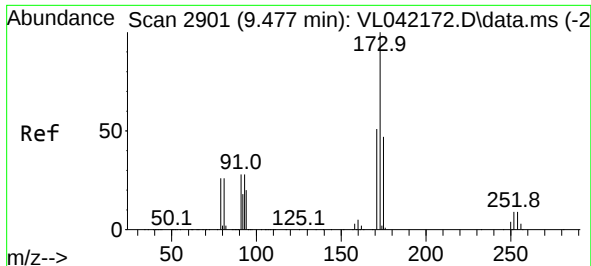
Tgt Ion: 129 Resp: 2284

Ion Ratio Lower Upper

129 100

127 106.0 39.1 117.2

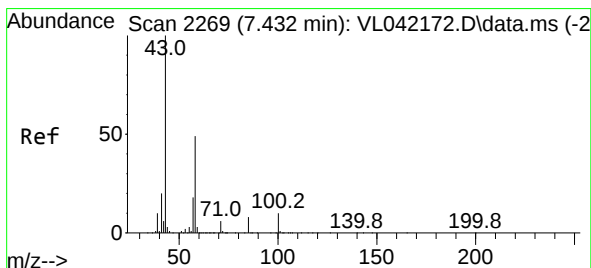
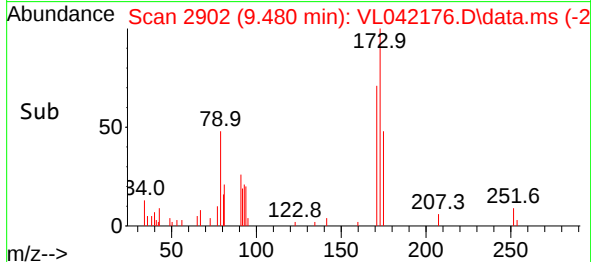
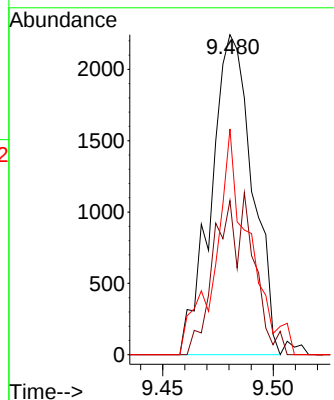
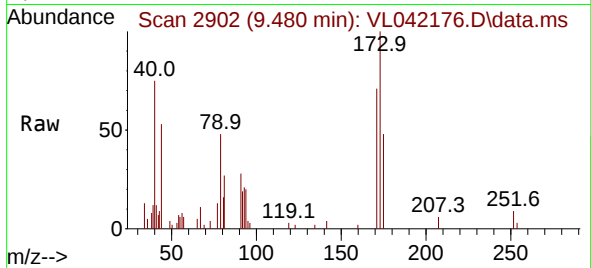




#49
Bromoform
Concen: 0.095 ppbv
RT: 9.480 min Scan# 2901
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

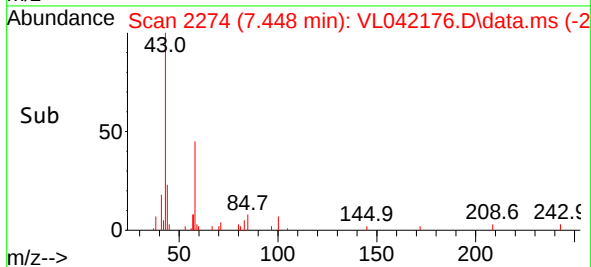
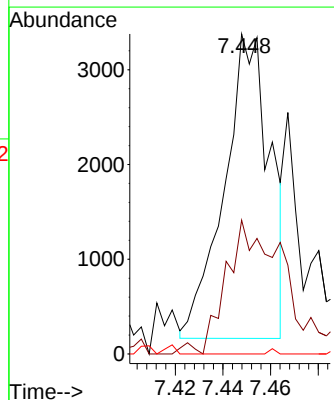
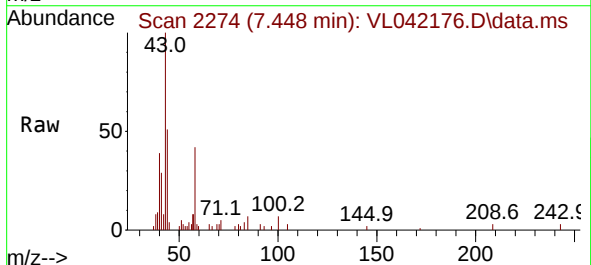
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

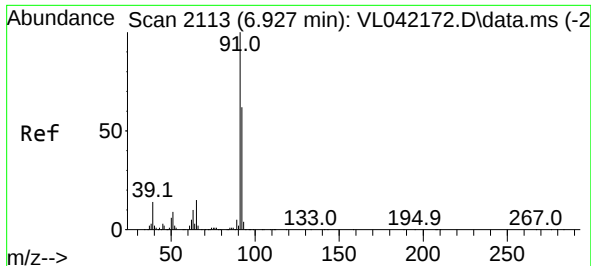
Tgt Ion:	173	Resp:	2928
Ion	Ratio	Lower	Upper
173	100		
175	46.4	38.6	57.8
171	58.1	41.8	62.6



#51
2-Hexanone
Concen: 0.085 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.016 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:	43	Resp:	4284
Ion	Ratio	Lower	Upper
43	100		
58	58.3	39.7	59.5
98	0.0	0.1	0.1

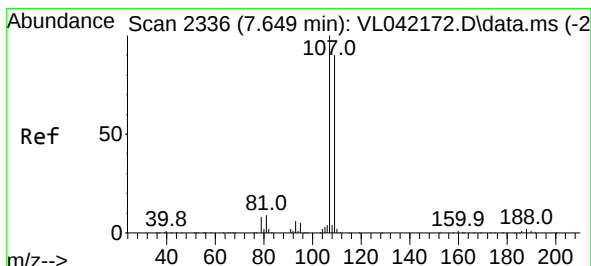
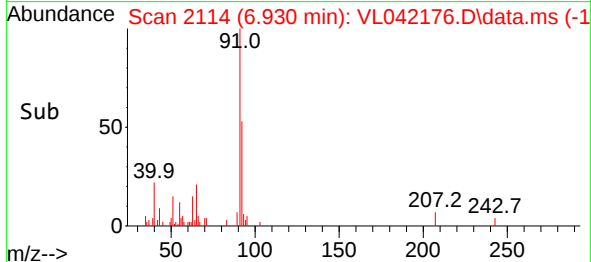
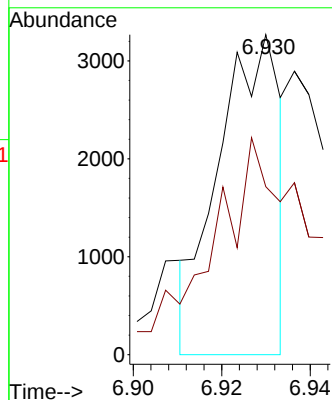
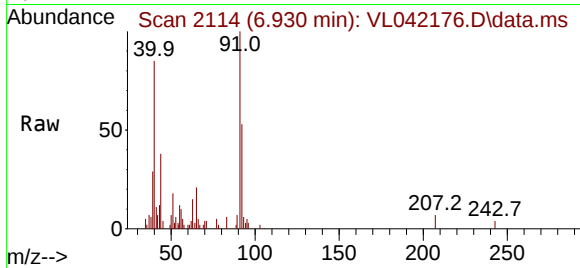




#53
Toluene
Concen: 0.051 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

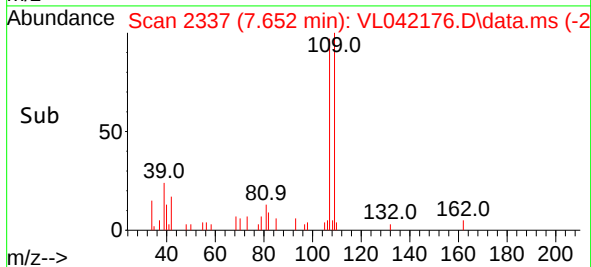
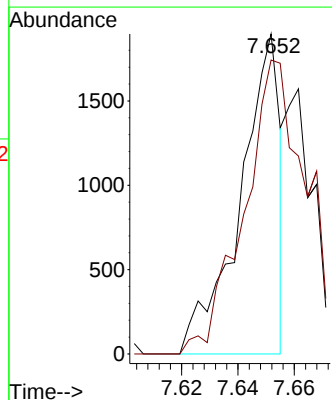
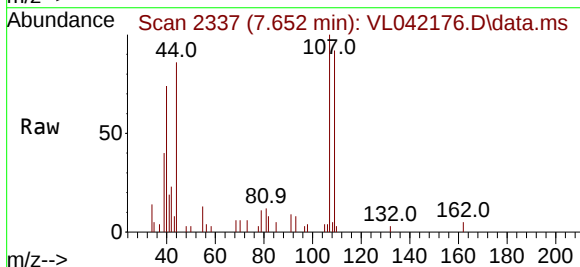
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

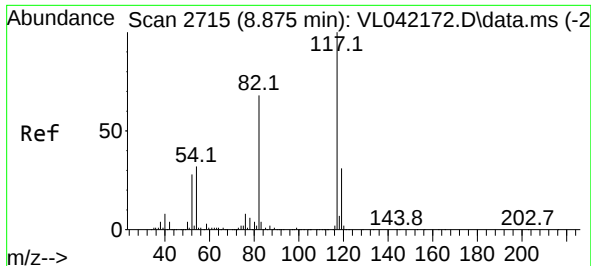
Tgt Ion: 91 Resp: 3144
Ion Ratio Lower Upper
91 100
92 117.7 48.4 72.6#



#54
1,2-Dibromoethane
Concen: 0.066 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion: 107 Resp: 1864
Ion Ratio Lower Upper
107 100
109 91.8 72.2 108.4

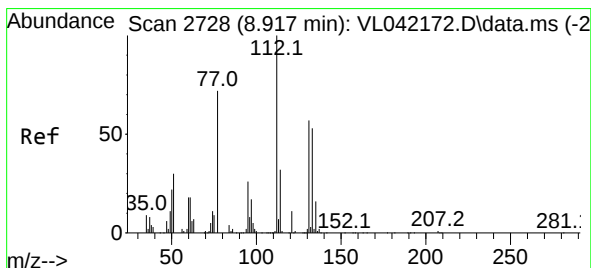
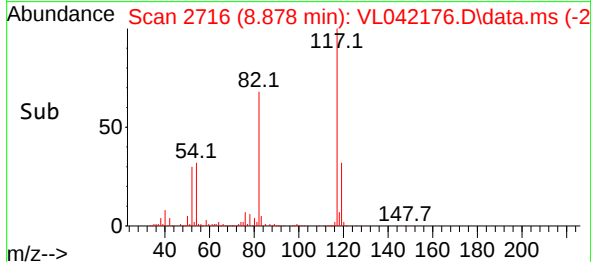
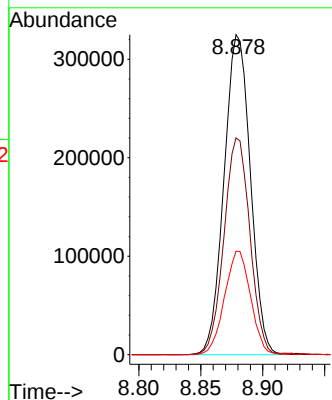
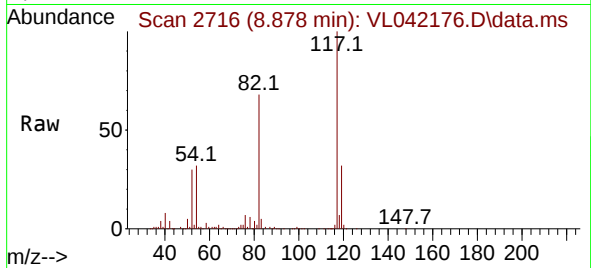




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

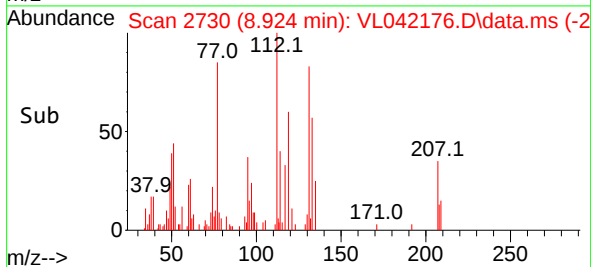
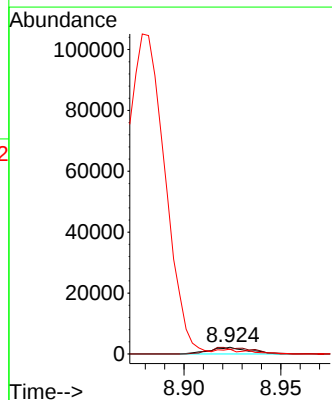
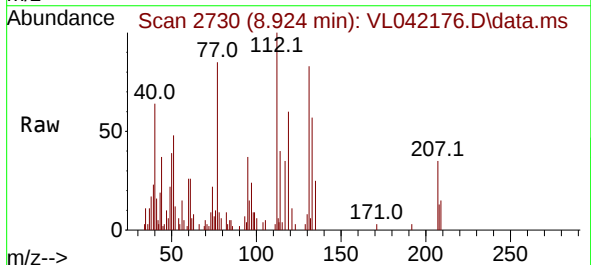
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

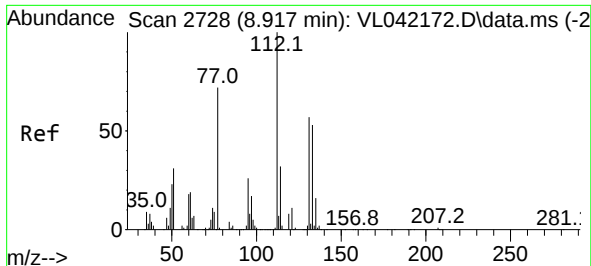
Tgt Ion:117 Resp: 481506
Ion Ratio Lower Upper
117 100
82 66.7 55.8 83.6
119 32.3 25.5 38.3



#56
1,1,1,2-Tetrachloroethane
Concen: 0.112 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. 0.006 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:131 Resp: 2963
Ion Ratio Lower Upper
131 100
133 115.5 76.6 114.8#
119 5254.7 49.8 74.6#





#57

Chlorobenzene

Concen: 0.107 ppbv

RT: 8.917 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

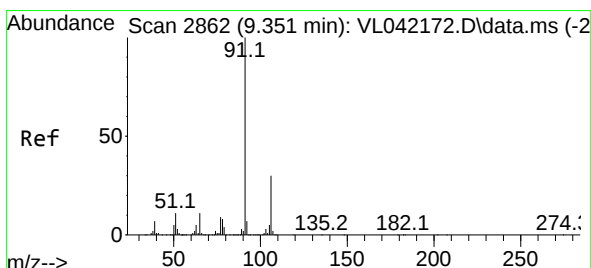
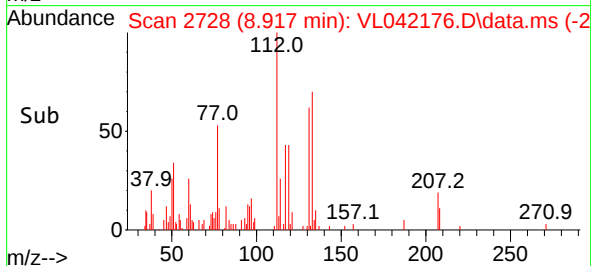
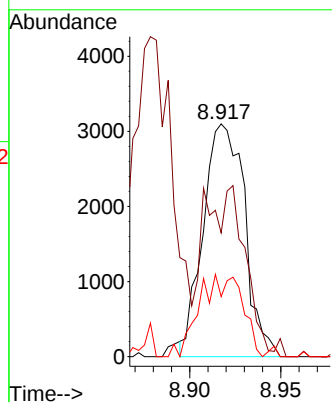
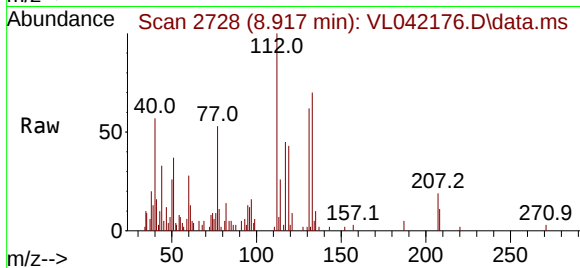
Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion:112	Resp:	4904
Ion	Ratio	Lower Upper
112	100	
77	45.4	58.2 87.2#
114	25.8	29.1 35.5#



#58

Ethyl Benzene

Concen: 0.101 ppbv

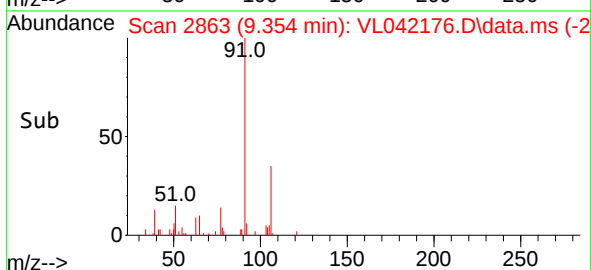
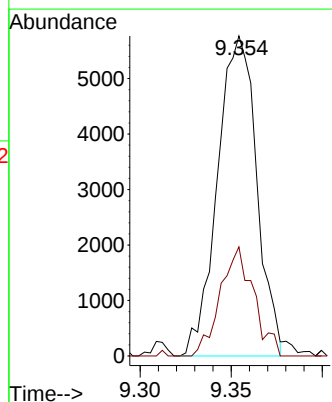
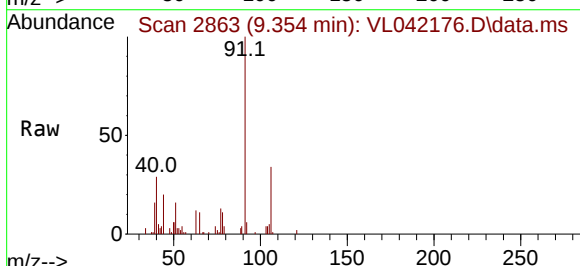
RT: 9.354 min Scan# 2863

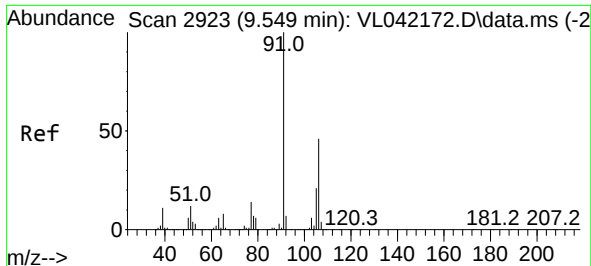
Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion: 91	Resp:	8648
Ion	Ratio	Lower Upper
91	100	
106	34.1	24.2 36.2





#59

m/p-Xylene

Concen: 0.088 ppbv

RT: 9.545 min Scan# 2923

Delta R.T. -0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

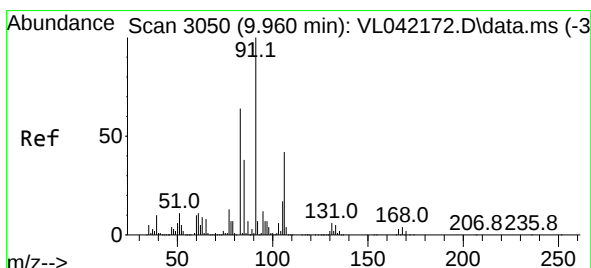
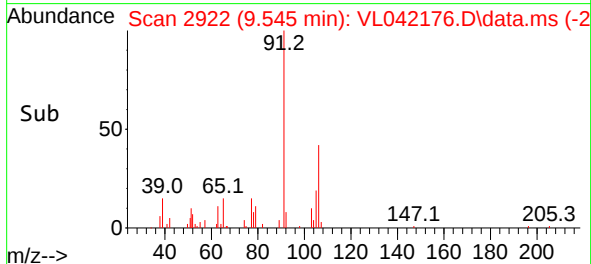
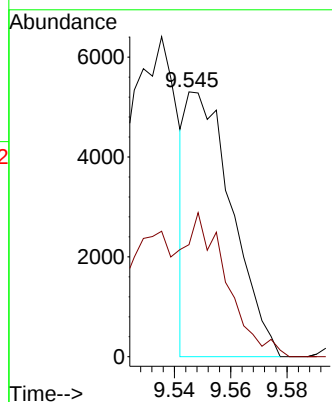
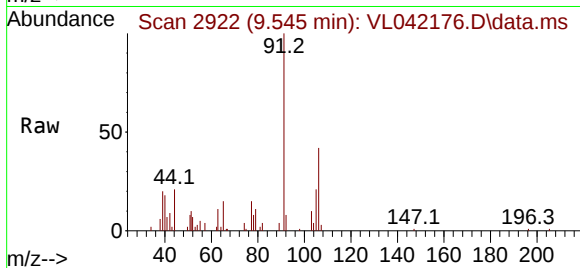
VSTDIC0.1

Tgt Ion: 91 Resp: 6005

Ion Ratio Lower Upper

91 100

106 103.4 36.4 54.6#



#60

o-Xylene

Concen: 0.118 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042176.D

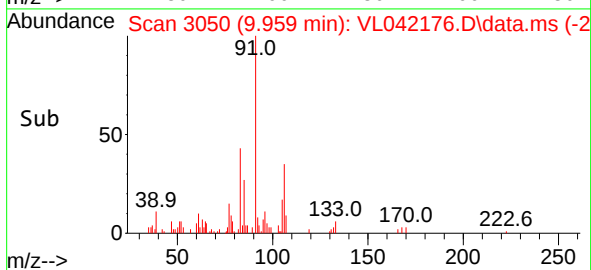
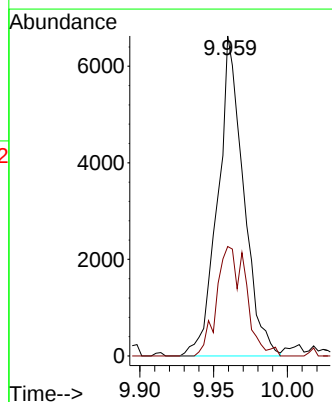
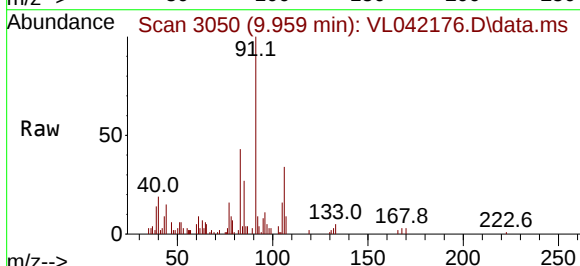
Acq: 27 Mar 2025 10:32

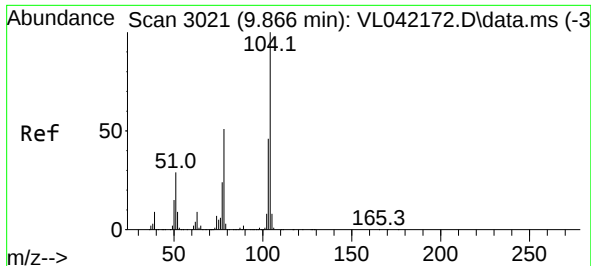
Tgt Ion: 91 Resp: 8048

Ion Ratio Lower Upper

91 100

106 39.0 20.8 62.5





#61

Styrene

Concen: 0.051 ppbv

RT: 9.872 min Scan# 3021

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

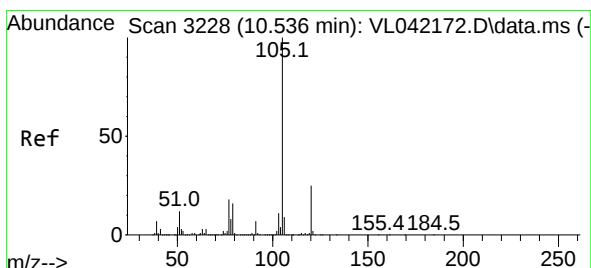
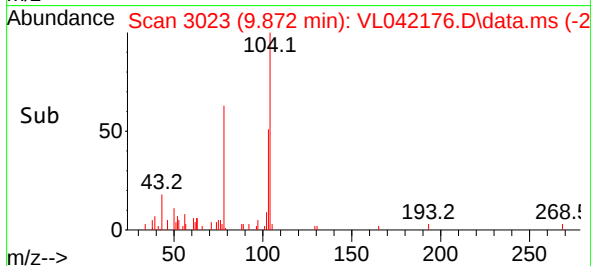
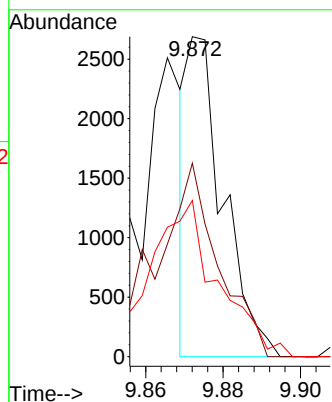
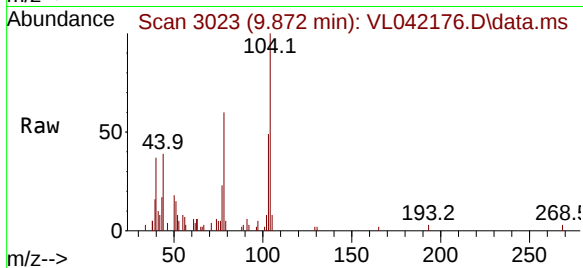
Tgt Ion:104 Resp: 1723

Ion Ratio Lower Upper

104 100

78 105.9 41.8 62.6#

103 95.0 37.0 55.4#



#62

Isopropylbenzene

Concen: 0.101 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.000 min

Lab File: VL042176.D

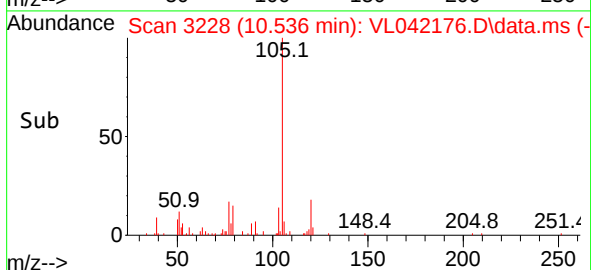
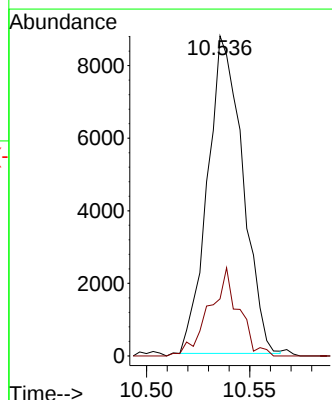
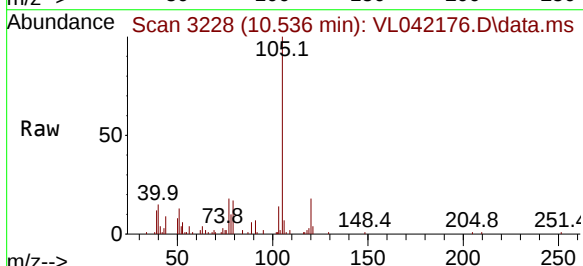
Acq: 27 Mar 2025 10:32

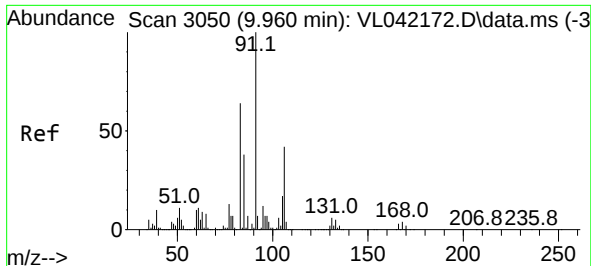
Tgt Ion:105 Resp: 10359

Ion Ratio Lower Upper

105 100

120 23.2 19.9 29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.046 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.000 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

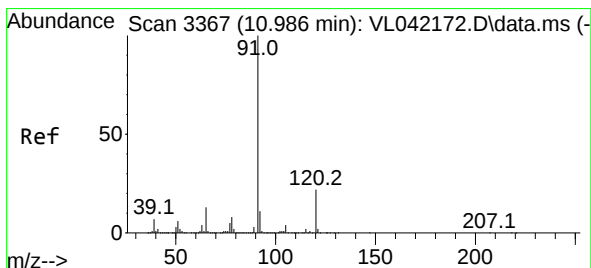
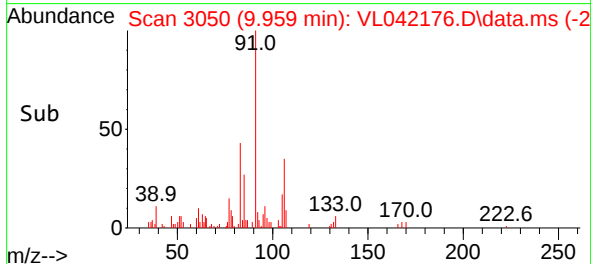
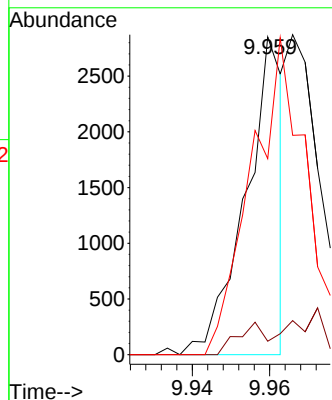
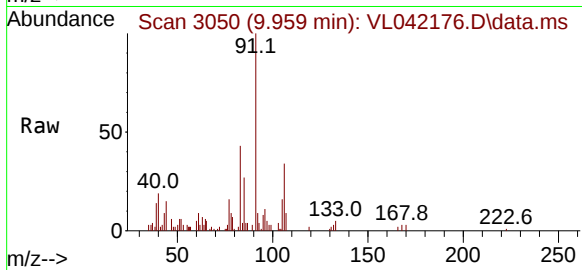
Tgt Ion: 83 Resp: 1910

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 0.0 32.5 97.5#



#64

n-propylbenzene

Concen: 0.090 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.003 min

Lab File: VL042176.D

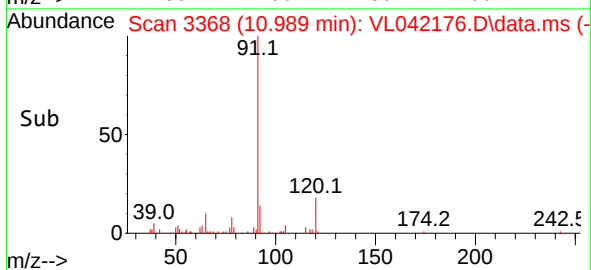
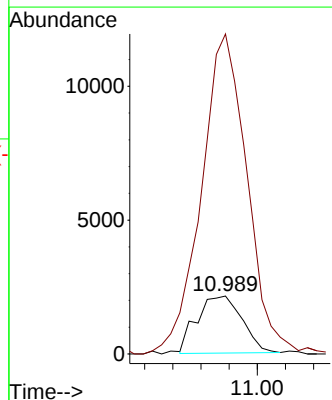
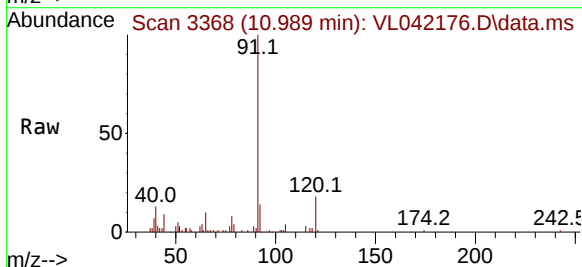
Acq: 27 Mar 2025 10:32

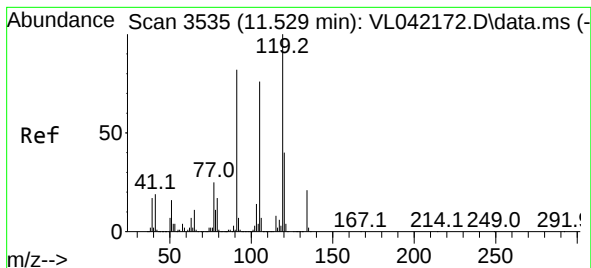
Tgt Ion: 120 Resp: 2375

Ion Ratio Lower Upper

120 100

91 572.3 376.9 565.3#





#65

tert-Butylbenzene

Concen: 0.099 ppbv

RT: 11.526 min Scan# 3534

Delta R.T. -0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

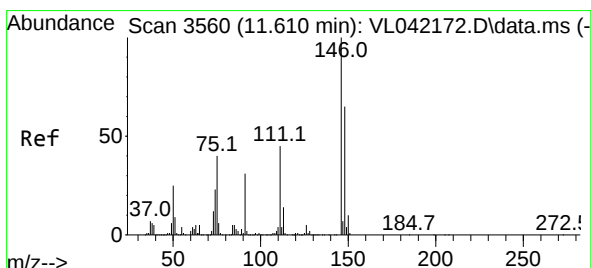
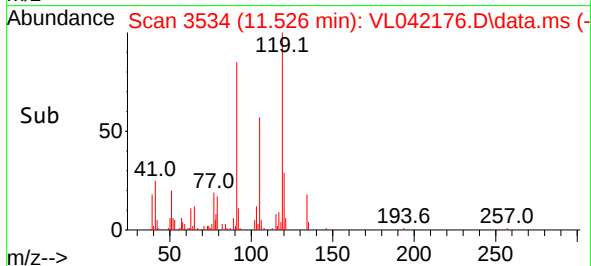
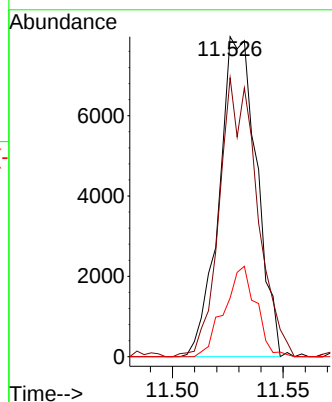
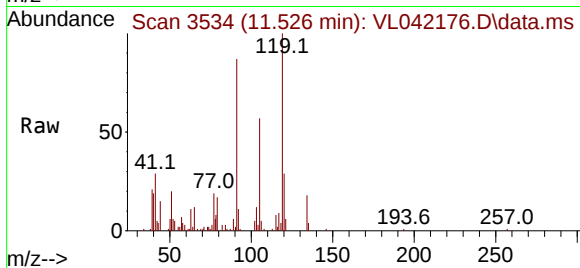
Tgt Ion:119 Resp: 9418

Ion Ratio Lower Upper

119 100

91 87.8 66.0 99.0

134 23.9 16.7 25.1



#66

Benzyl Chloride

Concen: 0.084 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.006 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

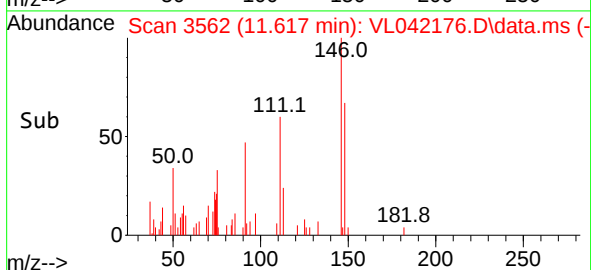
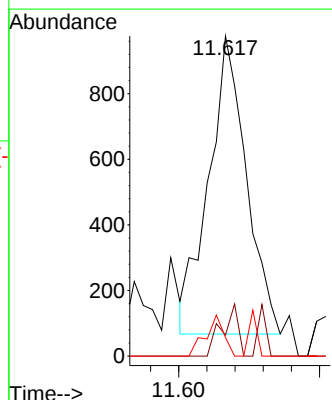
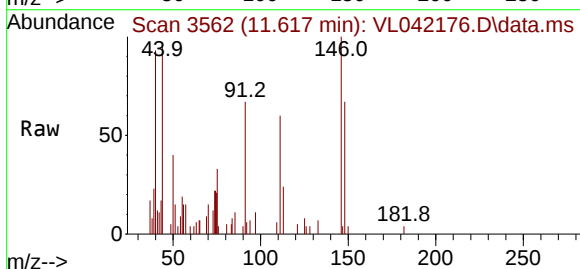
Tgt Ion: 91 Resp: 844

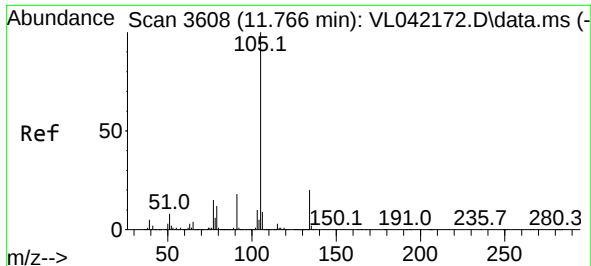
Ion Ratio Lower Upper

91 100

126 11.0 13.8 20.6#

128 10.0 4.5 6.7#

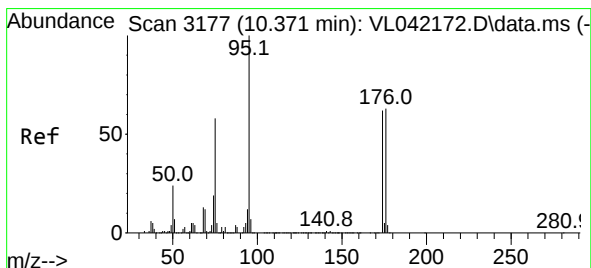
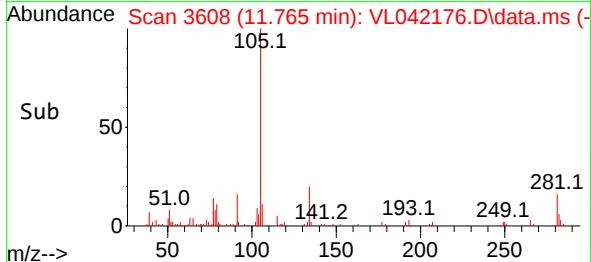
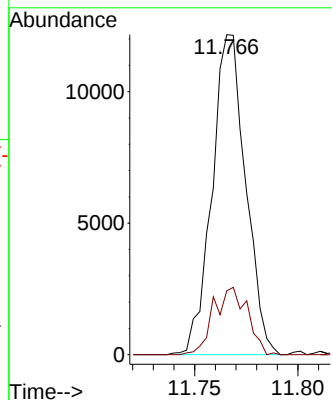
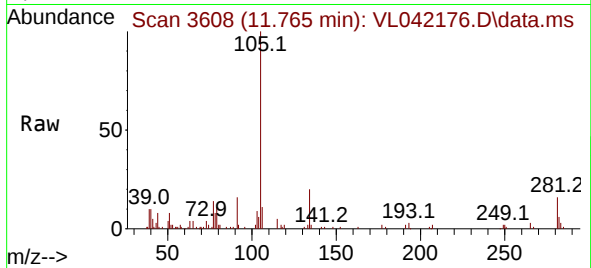




#67
 sec-Butylbenzene
 Concen: 0.105 ppbv
 RT: 11.765 min Scan# 3608
 Delta R.T. -0.000 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

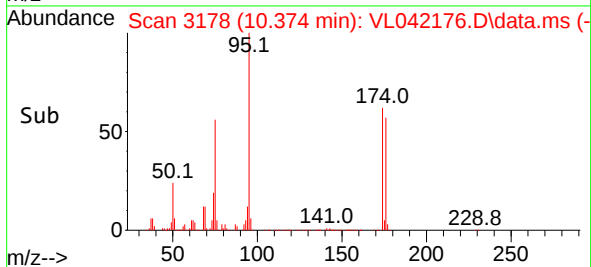
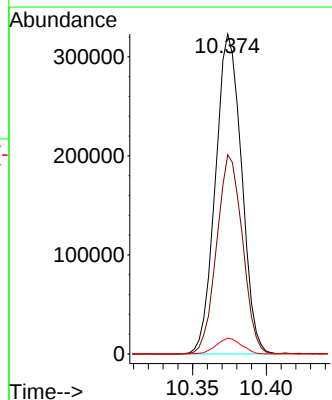
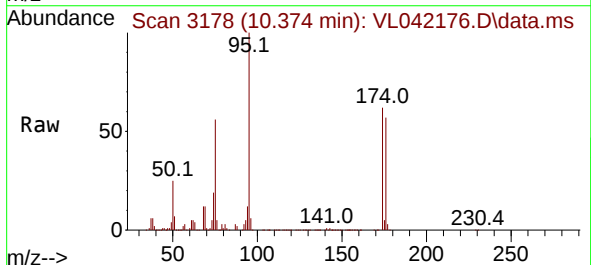
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

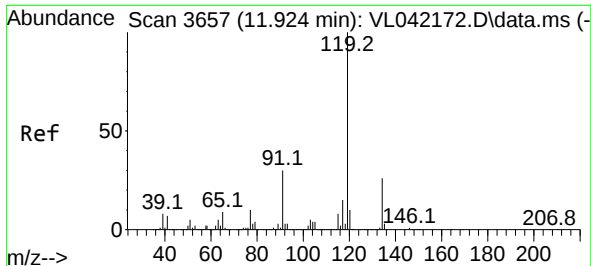
Tgt Ion:105 Resp: 13775
 Ion Ratio Lower Upper
 105 100
 134 21.2 15.5 23.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.067 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 95 Resp: 398069
 Ion Ratio Lower Upper
 95 100
 174 61.5 50.6 76.0
 175 4.8 3.8 5.6

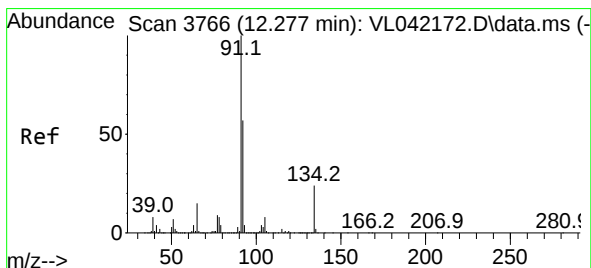
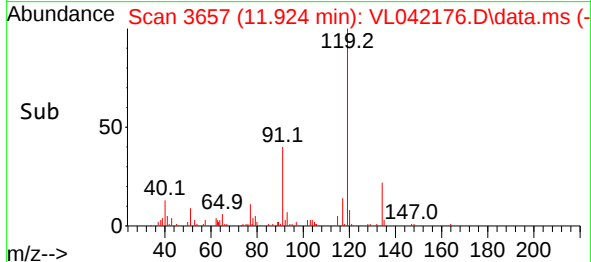
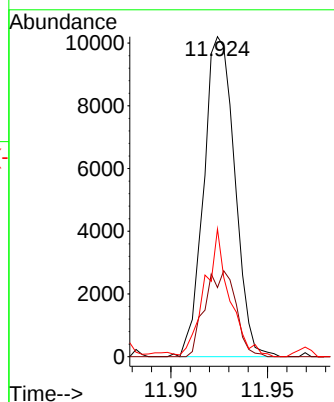
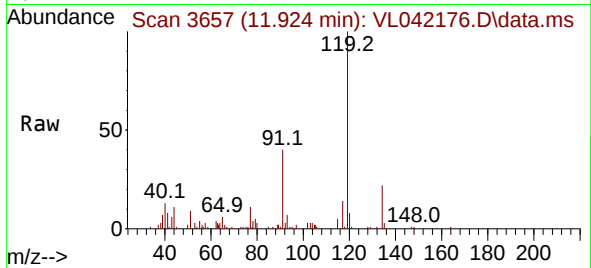




#69
 p-Isopropyltoluene
 Concen: 0.100 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. -0.000 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

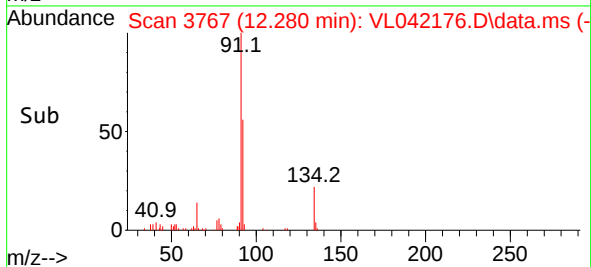
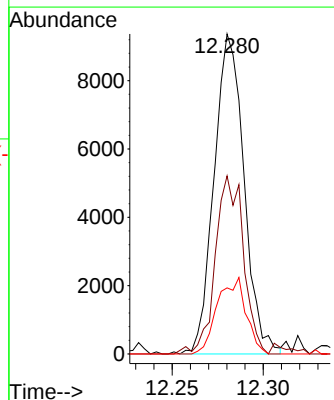
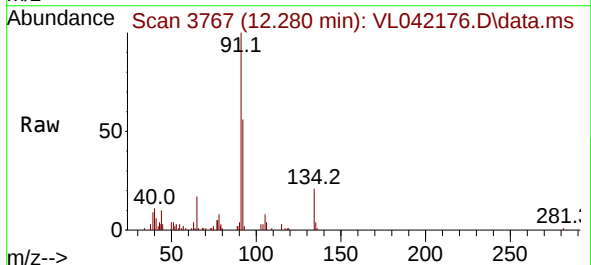
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

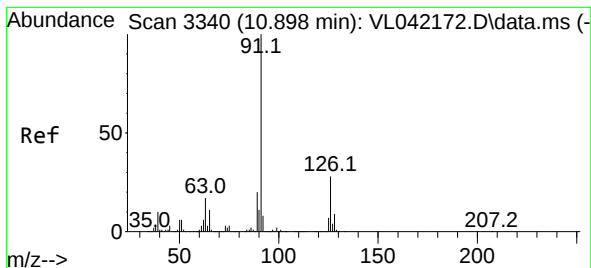
Tgt Ion:119 Resp: 11366
 Ion Ratio Lower Upper
 119 100
 134 26.8 20.4 30.6
 91 30.7 23.7 35.5



#70
 n-Butylbenzene
 Concen: 0.092 ppbv
 RT: 12.280 min Scan# 3767
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion: 91 Resp: 10697
 Ion Ratio Lower Upper
 91 100
 92 54.0 44.9 67.3
 134 22.9 19.2 28.8





#71

2-Chlorotoluene

Concen: 0.105 ppbv

RT: 10.898 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

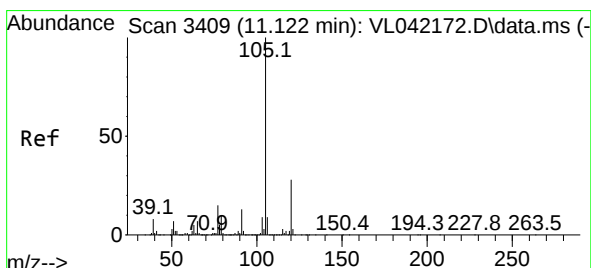
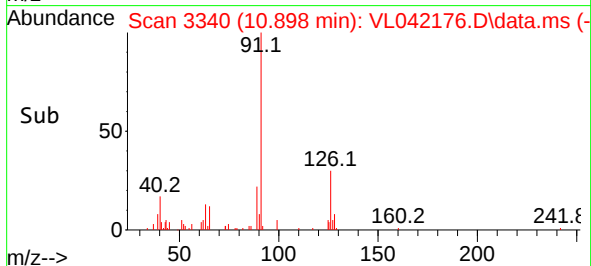
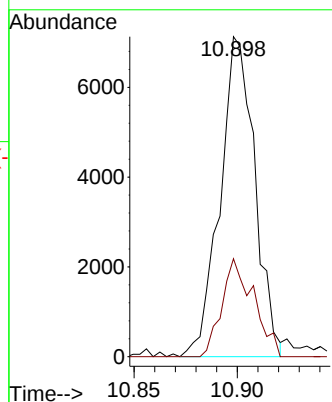
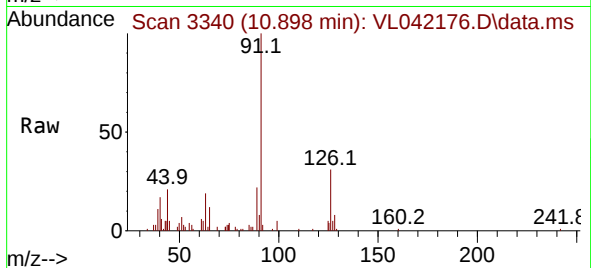
VSTDIC0.1

Tgt Ion: 91 Resp: 8347

Ion Ratio Lower Upper

91 100

126 28.0 11.6 46.4



#72

4-Ethyltoluene

Concen: 0.101 ppbv

RT: 11.125 min Scan# 3410

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Tgt Ion: 105 Resp: 8579

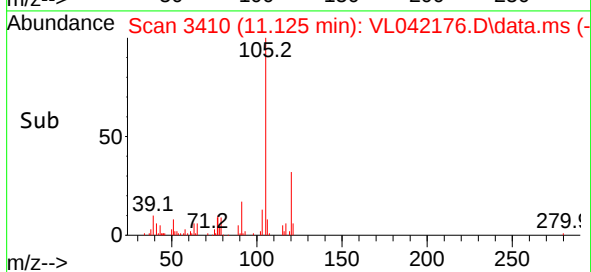
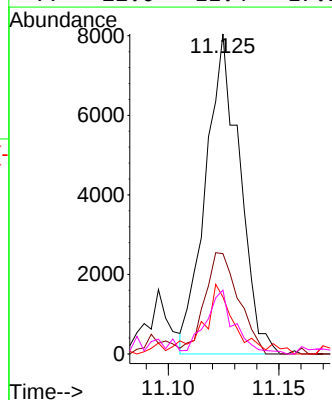
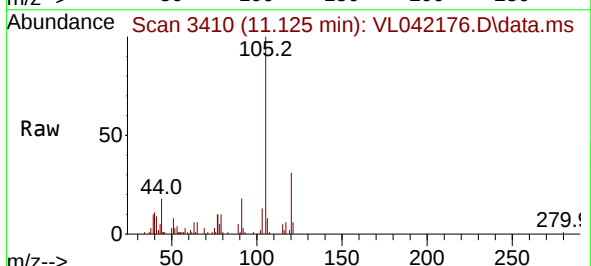
Ion Ratio Lower Upper

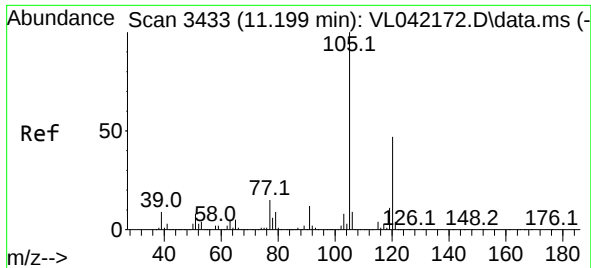
105 100

120 36.1 23.4 35.0#

91 21.4 10.3 15.5#

77 22.0 11.4 17.2#

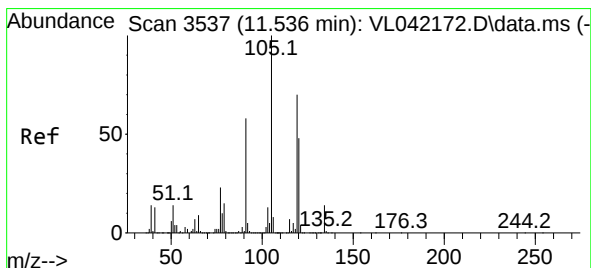
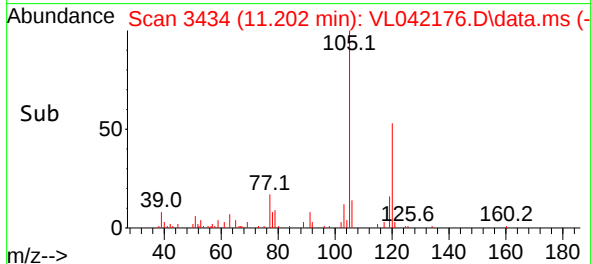
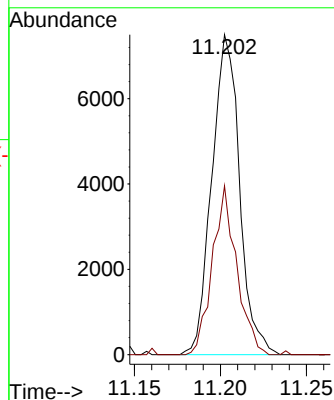
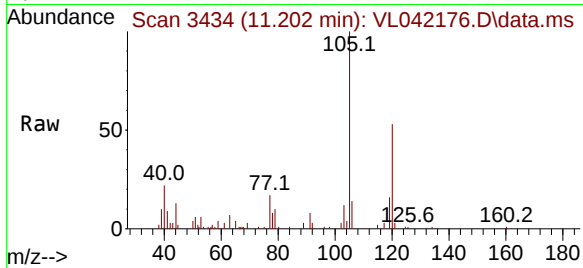




#73
 1,3,5-Trimethylbenzene
 Concen: 0.113 ppbv
 RT: 11.202 min Scan# 3434
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

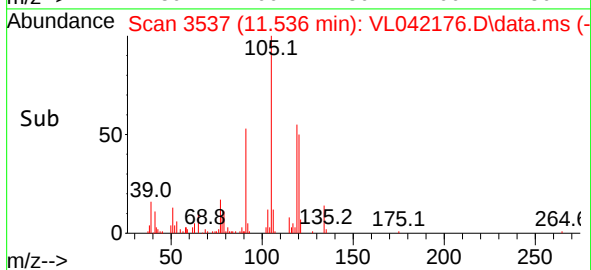
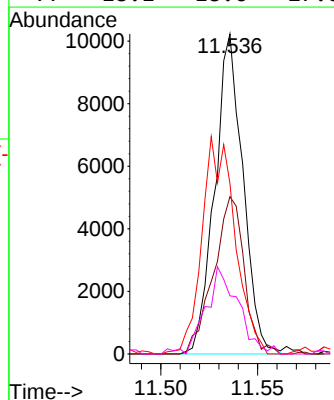
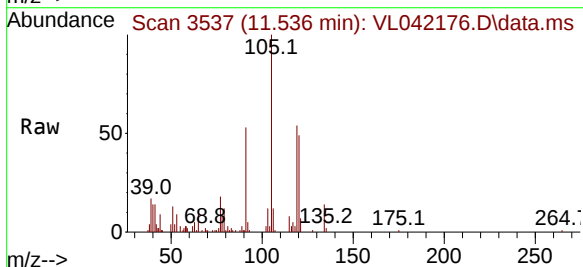
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

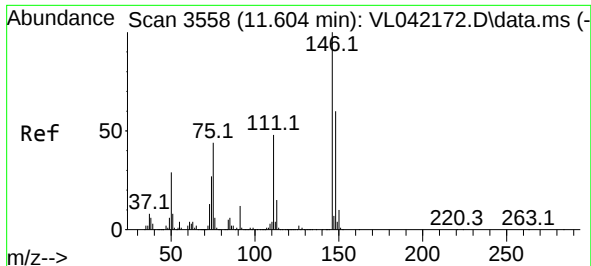
Tgt Ion:105 Resp: 8407
 Ion Ratio Lower Upper
 105 100
 120 52.7 37.4 56.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.121 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. -0.000 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion:105 Resp: 10341
 Ion Ratio Lower Upper
 105 100
 120 49.2 38.6 58.0
 91 53.2 46.2 69.2
 77 18.1 18.6 27.8#

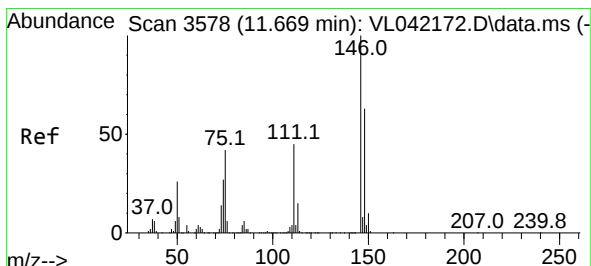
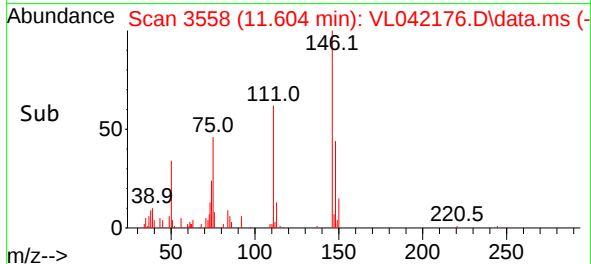
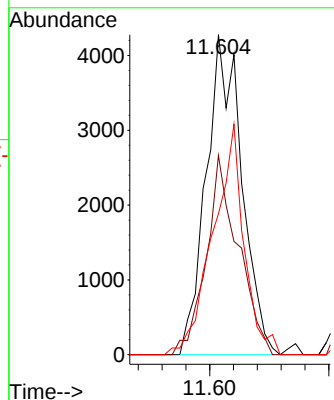
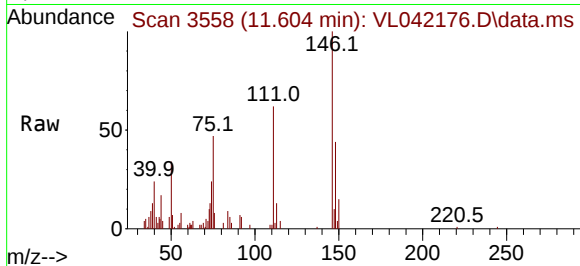




#75
1,3-Dichlorobenzene
Concen: 0.094 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.000 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

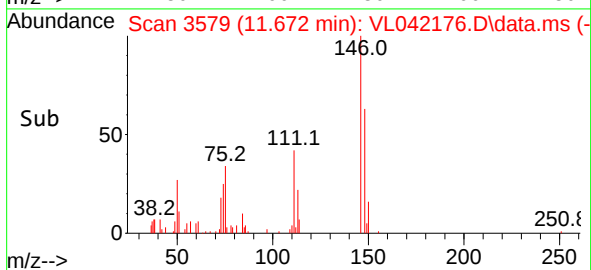
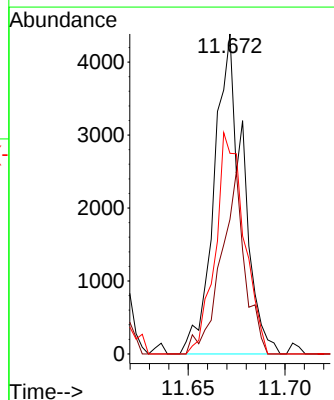
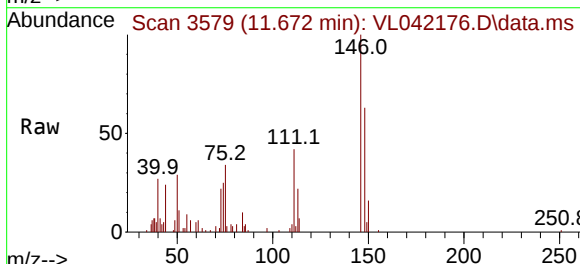
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

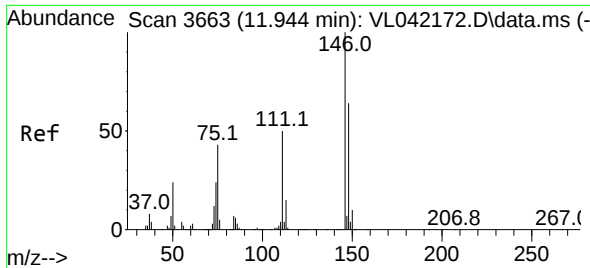
Tgt Ion:146 Resp: 4426
Ion Ratio Lower Upper
146 100
111 56.3 23.8 71.2
148 62.9 31.9 95.9



#76
1,4-Dichlorobenzene
Concen: 0.097 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.003 min
Lab File: VL042176.D
Acq: 27 Mar 2025 10:32

Tgt Ion:146 Resp: 4552
Ion Ratio Lower Upper
146 100
111 47.6 23.0 69.0
148 68.6 31.9 95.7

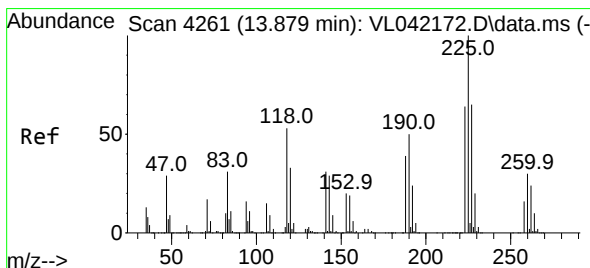
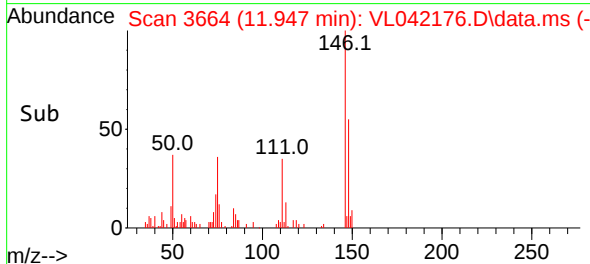
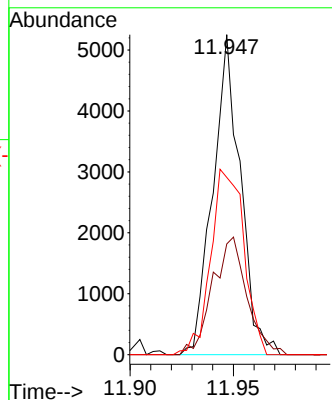
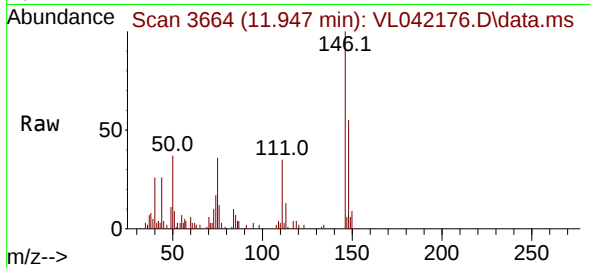




#77
 1,2-Dichlorobenzene
 Concen: 0.106 ppbv
 RT: 11.947 min Scan# 3663
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

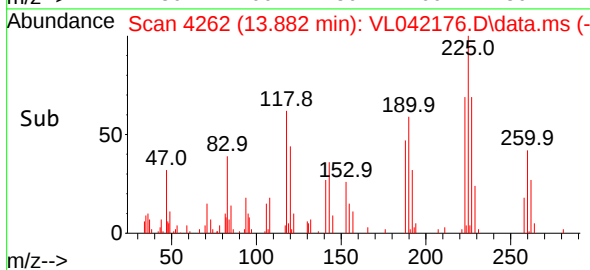
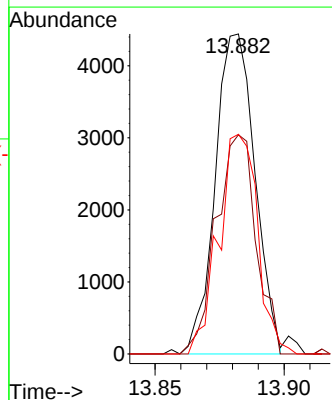
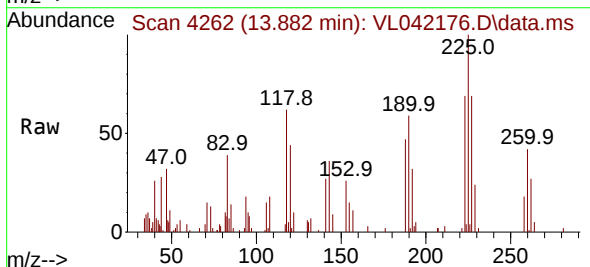
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

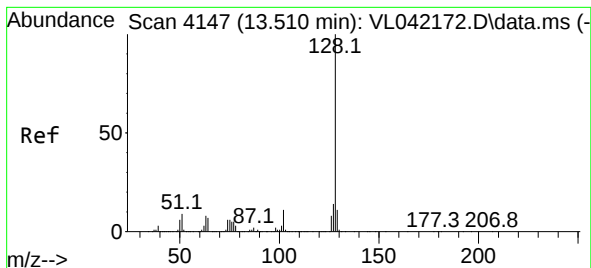
Tgt Ion:	146	Resp:	4867
Ion	Ratio	Lower	Upper
146	100		
111	45.8	24.8	74.3
148	69.7	31.6	94.8



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.102 ppbv
 RT: 13.882 min Scan# 4262
 Delta R.T. 0.003 min
 Lab File: VL042176.D
 Acq: 27 Mar 2025 10:32

Tgt Ion:	225	Resp:	4755
Ion	Ratio	Lower	Upper
225	100		
223	68.9	50.6	76.0
227	67.4	51.2	76.8





#79

Naphthalene

Concen: 0.084 ppbv

RT: 13.513 min Scan# 4147

Delta R.T. 0.003 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

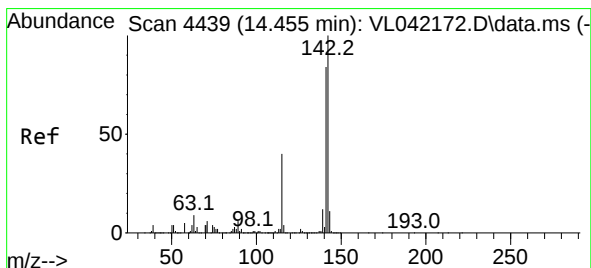
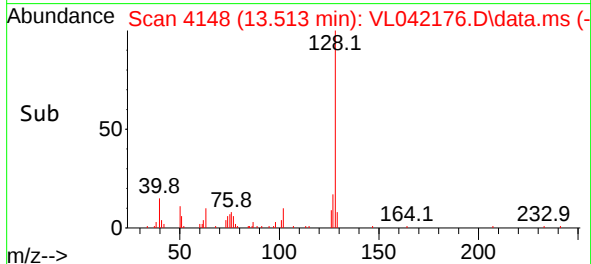
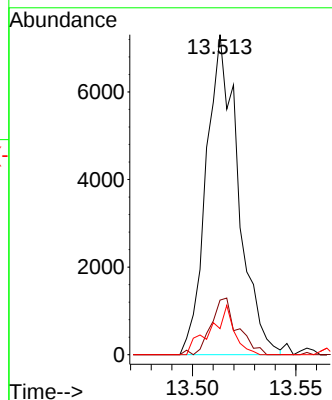
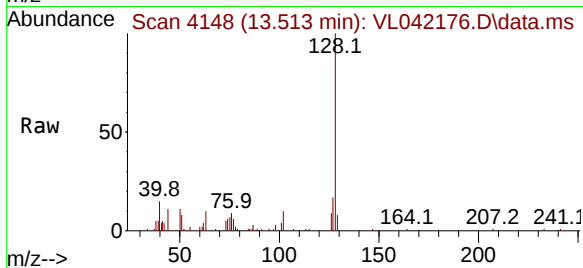
Tgt Ion:128 Resp: 7882

Ion Ratio Lower Upper

128 100

127 17.1 10.8 16.2#

129 8.1 9.0 13.4#



#80

Naphthalene,2-methyl-

Concen: 0.048 ppbv

RT: 14.471 min Scan# 4444

Delta R.T. 0.016 min

Lab File: VL042176.D

Acq: 27 Mar 2025 10:32

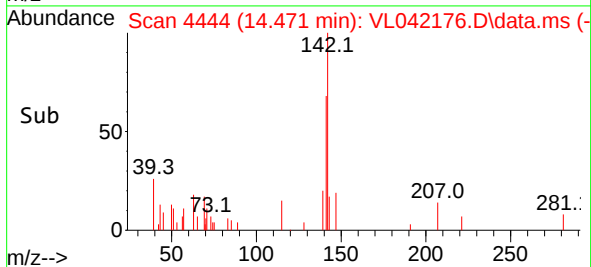
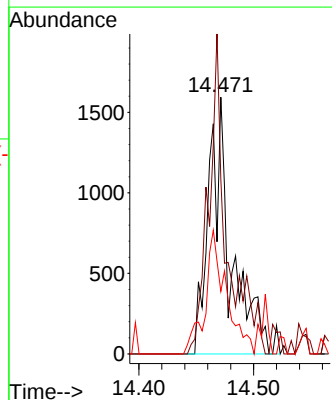
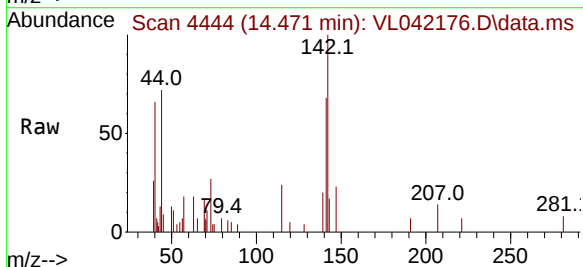
Tgt Ion:142 Resp: 2174

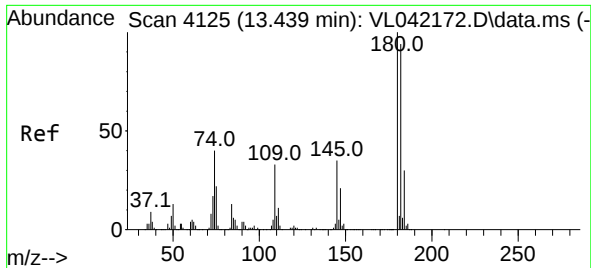
Ion Ratio Lower Upper

142 100

141 109.3 66.3 99.5#

115 44.3 31.6 47.4





#81

1,2,4-Trichlorobenzene

Concen: 0.059 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042176.D

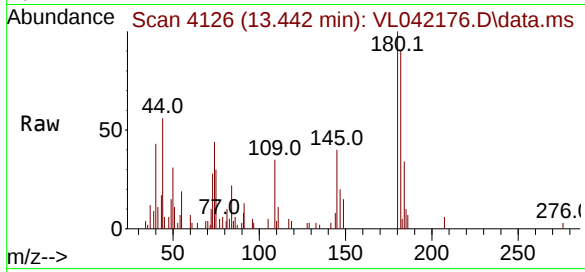
Acq: 27 Mar 2025 10:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1



Tgt Ion:180 Resp: 2557

Ion Ratio Lower Upper

180 100

182 93.6 75.1 112.7

184 34.5 24.4 36.6

