

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041254.D
 Acq On : 9 May 2024 12:07
 Operator : SY/MD
 Sample : P2403-15 MDL 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 10 01:26:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 10 01:23:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	746047	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.667	114	2055920	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	1891052	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.789	95	1447270	10.137	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.754	85	63797	0.632	ppbv	99
3) Chlorodifluoromethane	2.700	51	55424	0.489	ppbv	98
4) Chloromethane	2.835	50	21587	0.486	ppbv #	85
5) Vinyl Chloride	2.941	62	19006	0.426	ppbv	94
6) Bromomethane	3.140	94	5137	0.315	ppbv #	74
7) Chloroethane	3.217	64	3584	0.227	ppbv	95
8) Dichlorotetrafluoroethane	2.880	85	47577	0.455	ppbv	95
9) Propene	2.716	41	21095	0.476	ppbv	97
10) Heptane	7.600	43	16724	0.156	ppbv #	29
11) Trichlorofluoromethane	3.584	101	49669	0.484	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.086	101	36157	0.477	ppbv	93
14) Bromoethene	3.388	108	13242	0.423	ppbv #	89
15) Acetone	3.507	43	45307	0.515	ppbv #	88
16) 1,3-Butadiene	3.005	39	17785	0.400	ppbv	92
17) tert-Butyl alcohol	3.915	59	28479	0.300	ppbv	95
18) 1,1-Dichloroethene	3.896	96	6572	0.194	ppbv	91
19) Isopropyl Alcohol	3.613	45	8763	0.152	ppbv #	64
20) Methylene Chloride	3.954	84	16337	0.534	ppbv #	81
21) Allyl Chloride	4.018	41	21572	0.376	ppbv #	75
22) trans-1,2-Dichloroethene	4.471	96	15758	0.448	ppbv #	74
23) Vinyl Acetate	4.651	43	18935	0.195	ppbv #	92
24) 1,1-Dichloroethane	4.584	63	32417	0.430	ppbv #	94
25) Ethyl Acetate	5.230	43	66221	0.377	ppbv #	96
26) Hexane	5.233	57	30448	0.388	ppbv #	86
27) Carbon Disulfide	4.147	76	36211	0.390	ppbv #	71
28) Methyl tert-Butyl Ether	4.613	73	10238	0.164	ppbv #	23
29) Chloroform	5.295	83	53592	0.495	ppbv	87
30) Cyclohexane	6.619	84	22935	0.369	ppbv	94
31) cis-1,2-Dichloroethene	5.095	61	29191	0.398	ppbv	94
32) 1,1,1-Trichloroethane	6.018	97	25799	0.239	ppbv #	26
34) 2-Butanone	4.819	43	34784	0.332	ppbv	95
35) Carbon Tetrachloride	6.510	117	32815	0.284	ppbv #	94
36) Benzene	6.388	78	67652	0.392	ppbv	95
37) 1,2-Dichloroethane	5.828	62	18036	0.200	ppbv #	71
38) Trichloroethene	7.304	130	26488	0.412	ppbv	97
39) 1,2-Dichloropropane	7.089	63	12832	0.193	ppbv	92
41) Tetrahydrofuran	5.600	42	19772	0.261	ppbv #	77
42) Bromodichloromethane	7.266	83	51056	0.395	ppbv #	86
43) Methyl Methacrylate	7.497	69	23684	0.339	ppbv	99
44) 2,2,4-Trimethylpentane	7.339	57	105748	0.355	ppbv	92
45) t-1,3-Dichloropropene	8.722	75	8994	0.178	ppbv	91
46) cis-1,3-Dichloropropene	8.153	75	9116	0.147	ppbv #	84
47) 1,1,2-Trichloroethane	8.918	97	11733	0.176	ppbv	97

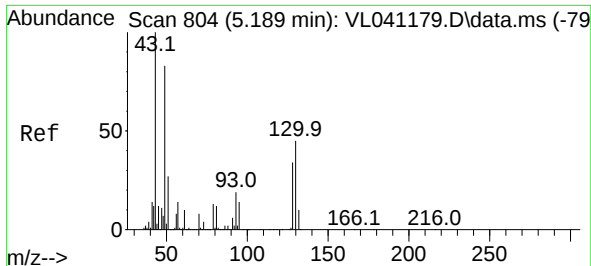
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
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Quant Time: May 10 01:26:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 10 01:23:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Dibromochloromethane	9.728	129	40647	0.383	ppbv	96
49) Bromoform	12.420	173	18864	0.209	ppbv #	54
50) 4-Methyl-2-Pentanone	8.208	43	18979	0.101	ppbv #	40
51) 2-Hexanone	9.590	43	20525	0.147	ppbv #	27
52) Tetrachloroethene	10.629	164	25058	0.413	ppbv	93
53) Toluene	9.237	91	72204	0.361	ppbv	96
54) 1,2-Dibromoethane	10.024	107	34293	0.380	ppbv	94
56) 1,1,1,2-Tetrachloroethane	11.523	131	25148	0.328	ppbv #	51
57) Chlorobenzene	11.539	112	59154	0.427	ppbv #	97
58) Ethyl Benzene	12.101	91	94793	0.366	ppbv	98
59) m/p-Xylene	12.388	91	55491	0.255	ppbv #	1
60) o-Xylene	13.066	91	38938	0.191	ppbv #	31
61) Styrene	12.912	104	32053	0.297	ppbv	92
62) Isopropylbenzene	14.040	105	124979	0.409	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.060	83	31577	0.227	ppbv #	23
64) n-propylbenzene	14.934	120	14813	0.194	ppbv #	1
65) tert-Butylbenzene	16.098	119	59229	0.216	ppbv #	24
67) sec-Butylbenzene	16.651	105	150593	0.391	ppbv	96
69) p-Isopropyltoluene	17.008	119	81005	0.255	ppbv #	60
70) n-Butylbenzene	17.902	91	119642	0.361	ppbv	99
71) 2-Chlorotoluene	14.809	91	47740	0.205	ppbv #	42
72) 4-Ethyltoluene	15.211	105	52342	0.226	ppbv #	63
73) 1,3,5-Trimethylbenzene	15.365	105	74584	0.356	ppbv	88
74) 1,2,4-Trimethylbenzene	16.120	105	85365	0.373	ppbv #	81
75) 1,3-Dichlorobenzene	16.339	146	22881	0.175	ppbv #	1
76) 1,4-Dichlorobenzene	16.487	146	35637	0.283	ppbv #	37
77) 1,2-Dichlorobenzene	17.153	146	53652	0.409	ppbv	94
78) Hexachloro-1,3-Butadiene	22.651	225	29862	0.256	ppbv #	48
79) Naphthalene	21.403	128	31681	0.146	ppbv #	94
81) 1,2,4-Trichlorobenzene	21.159	180	14575	0.127	ppbv #	12

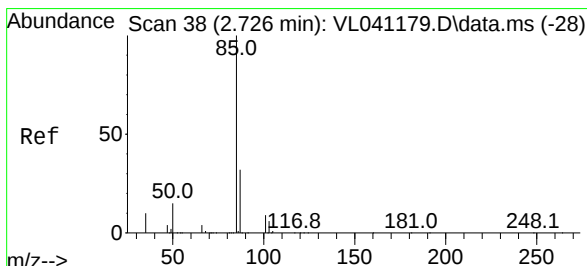
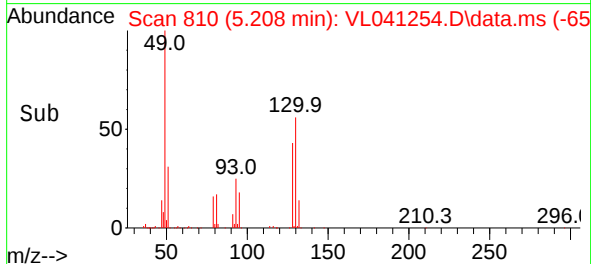
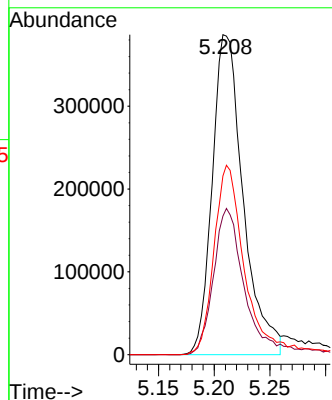
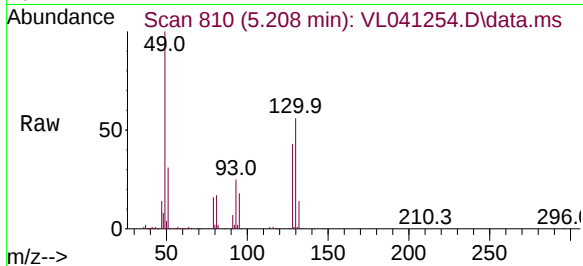
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

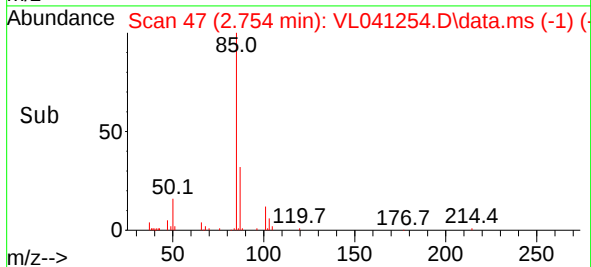
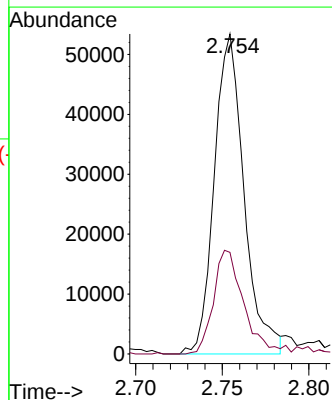
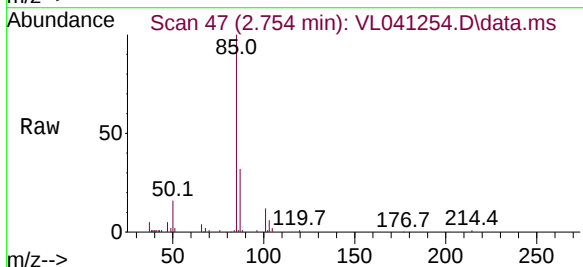
Instrument :
 MSVOA_L
 ClientSampleId :

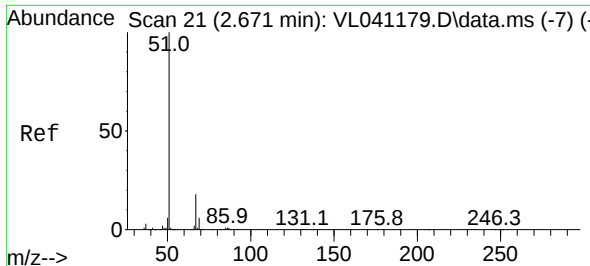
Tgt Ion: 49 Resp: 746047
 Ion Ratio Lower Upper
 49 100
 128 47.9 21.5 64.5
 130 61.4 27.2 81.6



#2
 Dichlorodifluoromethane
 Concen: 0.632 ppbv
 RT: 2.754 min Scan# 47
 Delta R.T. 0.010 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

Tgt Ion: 85 Resp: 63797
 Ion Ratio Lower Upper
 85 100
 87 31.7 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.489 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.010 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

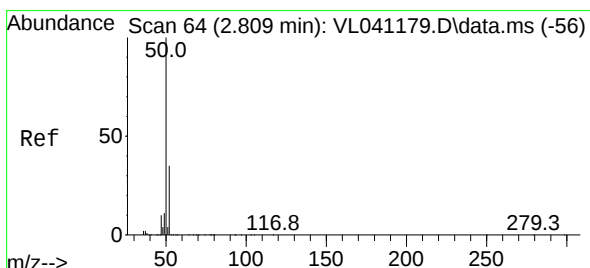
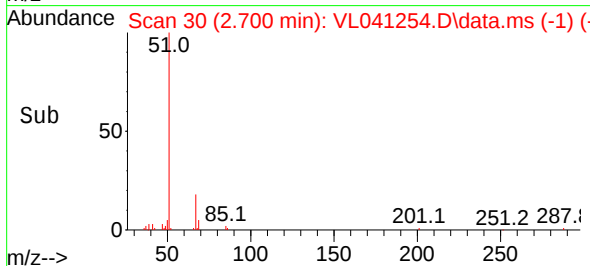
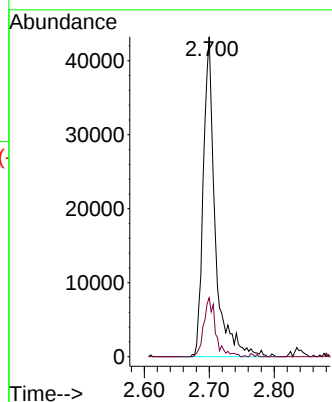
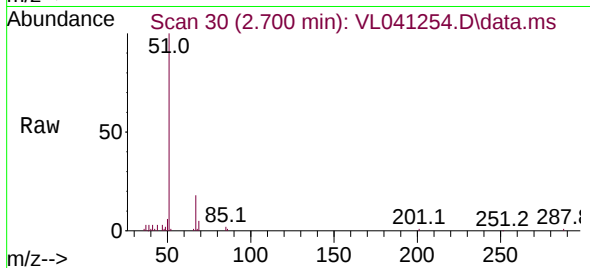
ClientSampleId :

Tgt Ion: 51 Resp: 55424

Ion Ratio Lower Upper

51 100

67 18.4 14.0 21.0



#4

Chloromethane

Concen: 0.486 ppbv

RT: 2.835 min Scan# 72

Delta R.T. 0.006 min

Lab File: VL041254.D

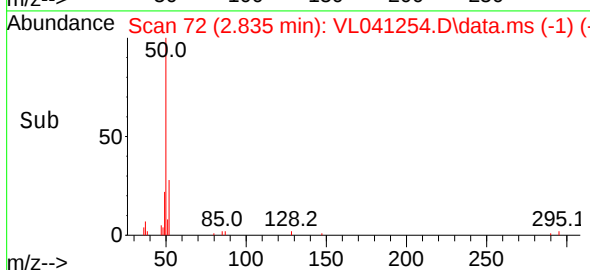
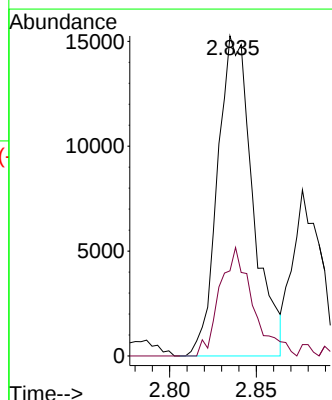
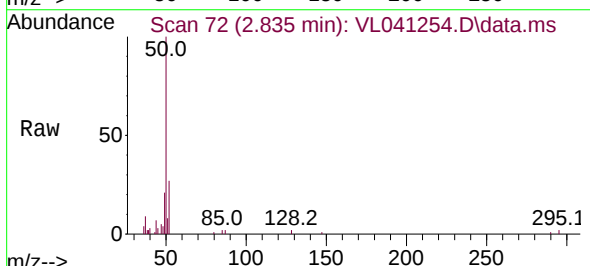
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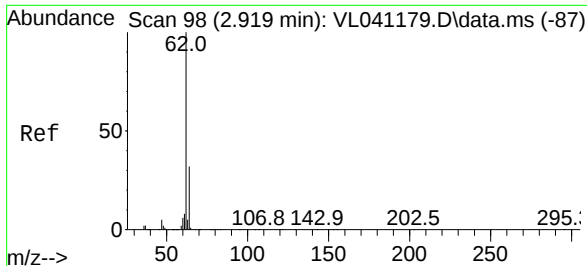
Tgt Ion: 50 Resp: 21587

Ion Ratio Lower Upper

50 100

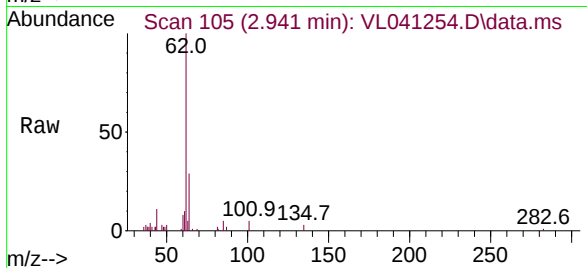
52 26.6 28.3 42.5#



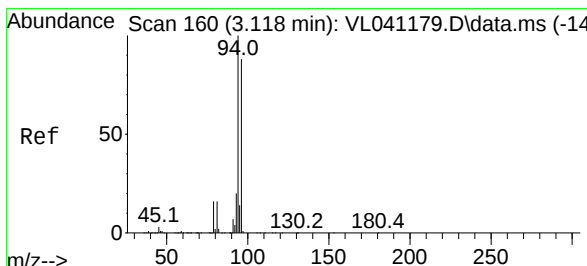
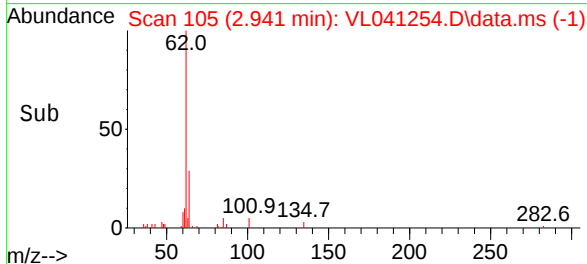
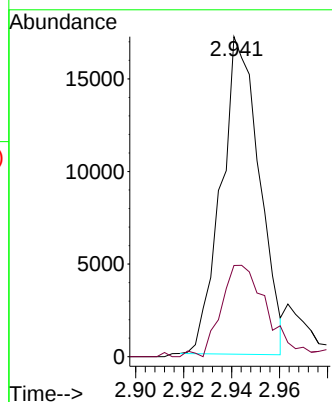


#5
Vinyl Chloride
Concen: 0.426 ppbv
RT: 2.941 min Scan# 105
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Instrument :
MSVOA_L
ClientSampleId :

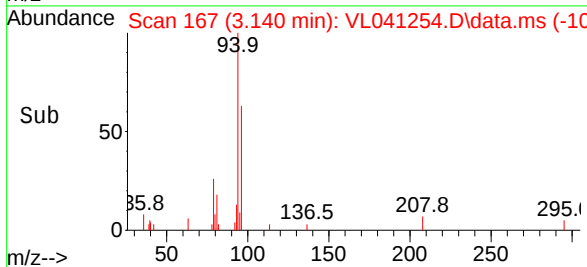
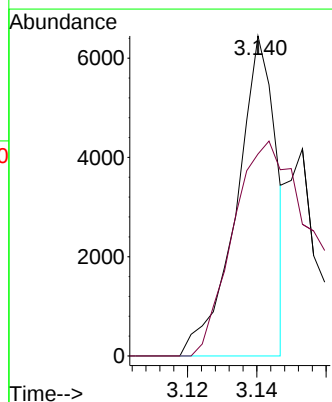
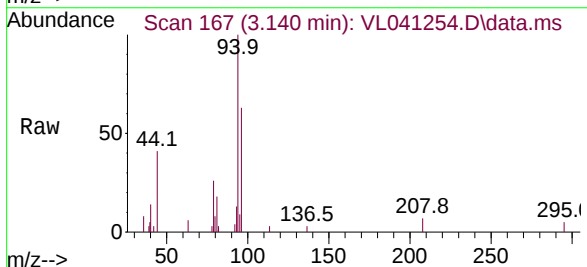


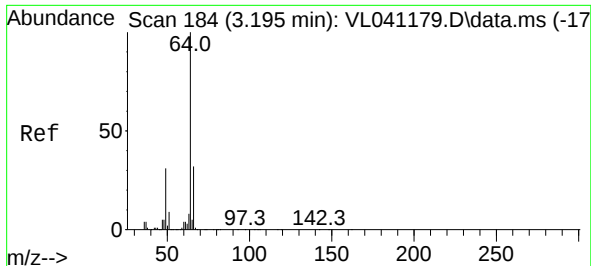
Tgt Ion: 62 Resp: 19006
Ion Ratio Lower Upper
62 100
64 28.8 25.7 38.5



#6
Bromomethane
Concen: 0.315 ppbv
RT: 3.140 min Scan# 167
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 94 Resp: 5137
Ion Ratio Lower Upper
94 100
96 63.1 70.1 105.1#

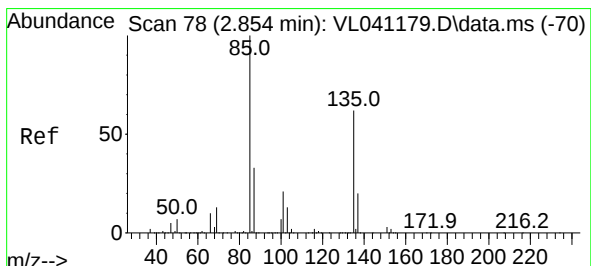
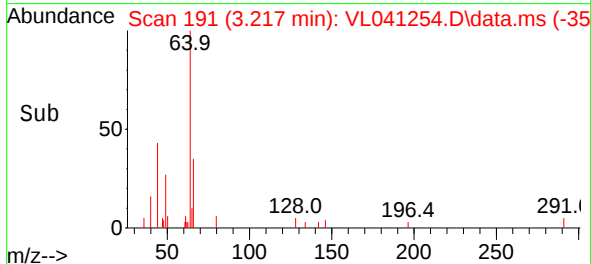
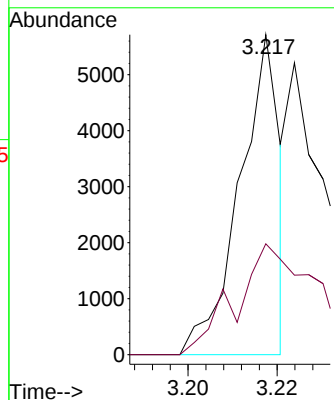
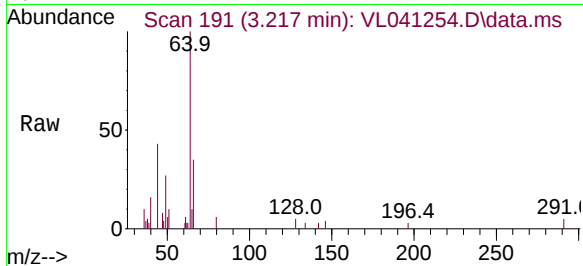




#7
Chloroethane
Concen: 0.227 ppbv
RT: 3.217 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

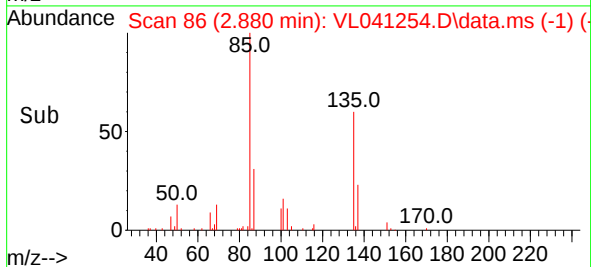
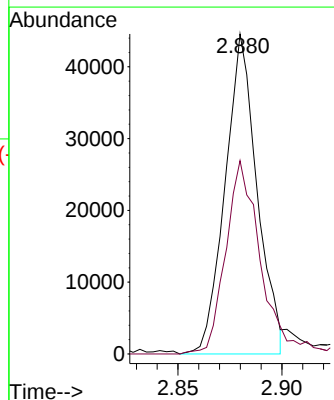
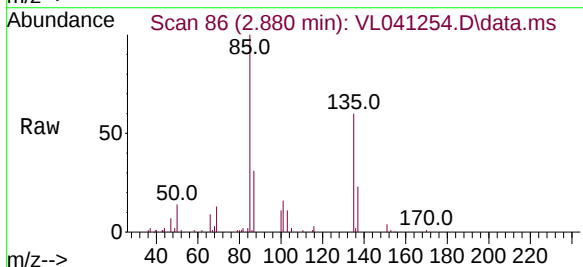
Instrument :
MSVOA_L
ClientSampleId :

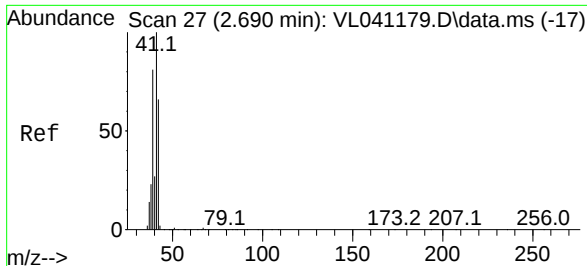
Tgt Ion: 64 Resp: 3584
Ion Ratio Lower Upper
64 100
66 34.6 25.4 38.2



#8
Dichlorotetrafluoroethane
Concen: 0.455 ppbv
RT: 2.880 min Scan# 86
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 85 Resp: 47577
Ion Ratio Lower Upper
85 100
135 68.5 51.5 77.3





#9

Propene

Concen: 0.476 ppbv

RT: 2.716 min Scan# 30

Delta R.T. 0.006 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

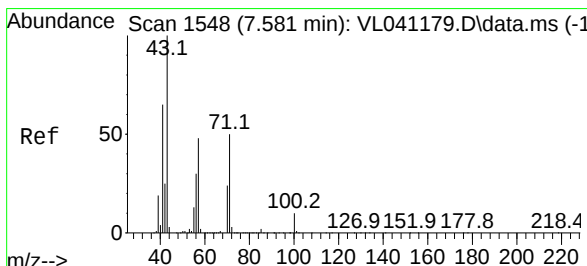
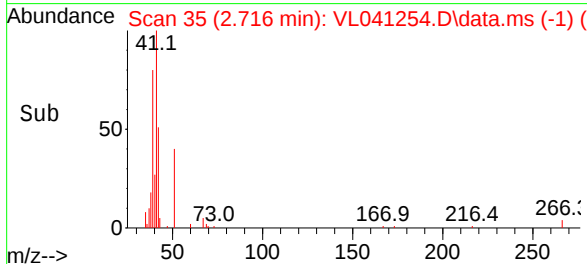
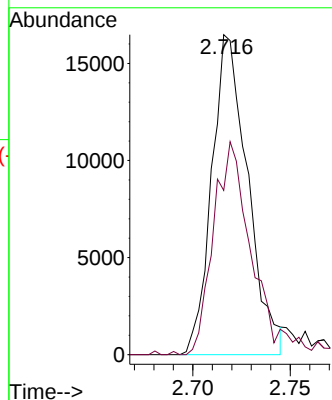
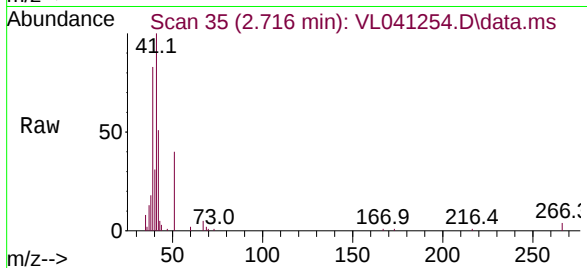
ClientSampleId :

Tgt Ion: 41 Resp: 21095

Ion Ratio Lower Upper

41 100

42 71.9 55.3 82.9



#10

Heptane

Concen: 0.156 ppbv

RT: 7.600 min Scan# 1554

Delta R.T. 0.003 min

Lab File: VL041254.D

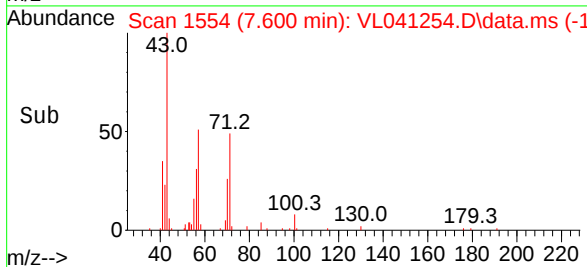
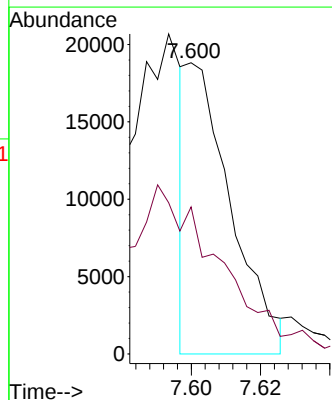
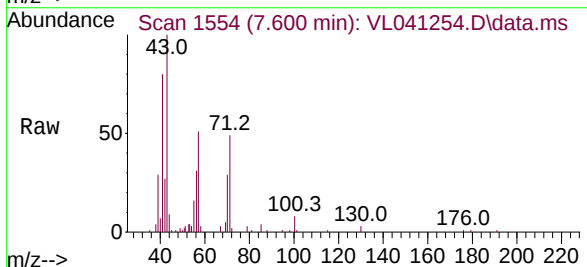
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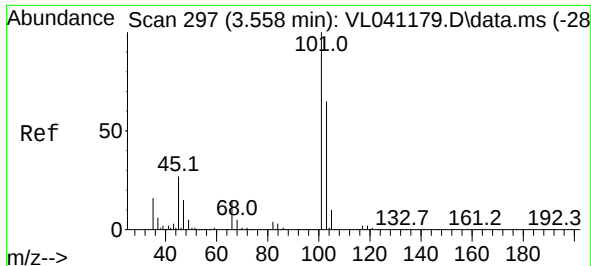
Tgt Ion: 43 Resp: 16724

Ion Ratio Lower Upper

43 100

57 0.0 38.7 58.1#

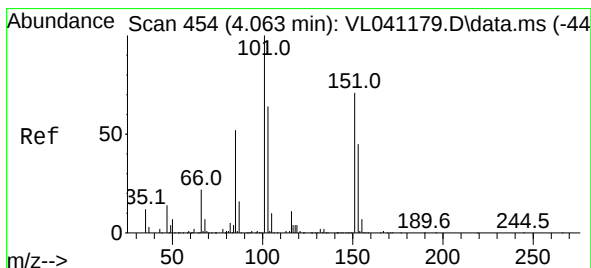
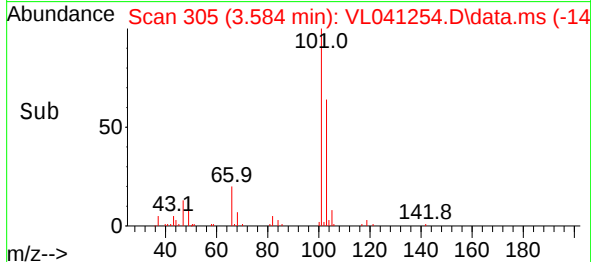
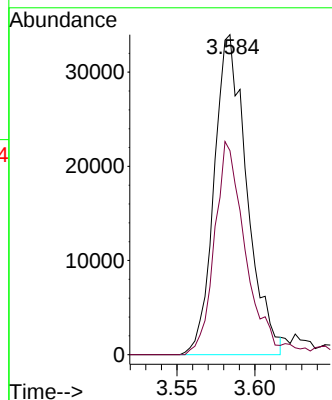
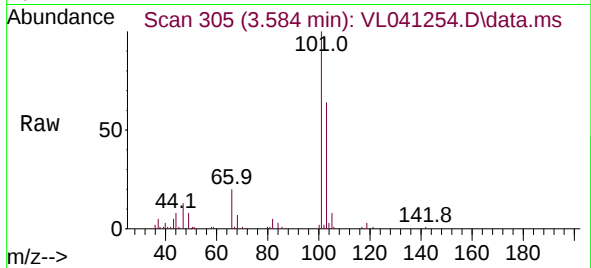




#11
 Trichlorofluoromethane
 Concen: 0.484 ppbv
 RT: 3.584 min Scan# 305
 Delta R.T. 0.006 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

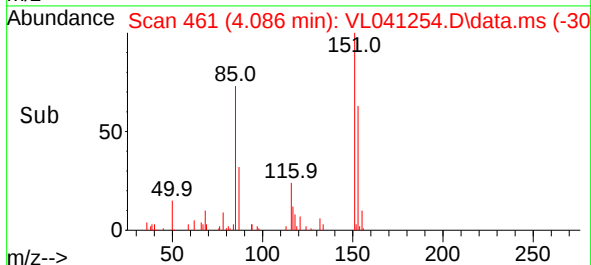
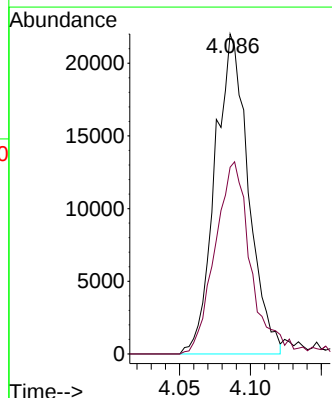
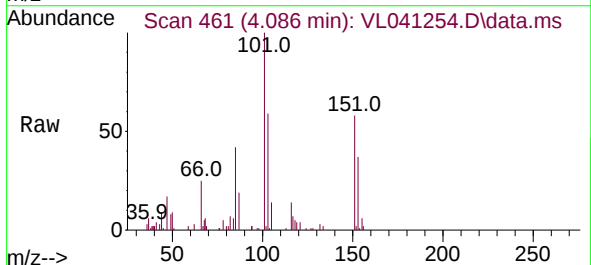
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 ClientSampleId :

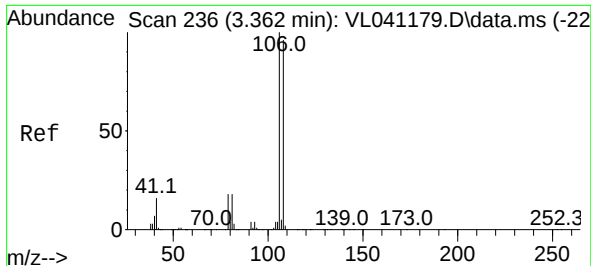
Tgt Ion:101 Resp: 49669
 Ion Ratio Lower Upper
 101 100
 103 63.7 51.6 77.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.477 ppbv
 RT: 4.086 min Scan# 461
 Delta R.T. 0.006 min
 Lab File: VL041254.D
 Acq: 9 May 2024 12:07

Tgt Ion:101 Resp: 36157
 Ion Ratio Lower Upper
 101 100
 151 65.6 56.8 85.2





#14

Bromoethene

Concen: 0.423 ppbv

RT: 3.388 min Scan# 244

Delta R.T. 0.006 min

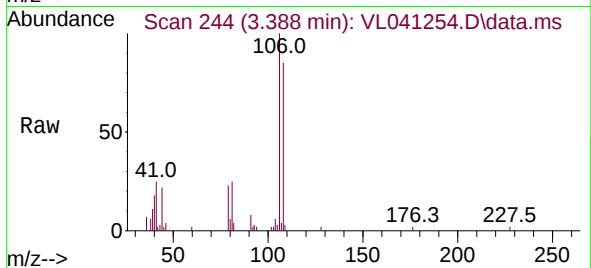
Lab File: VL041254.D

Acq: 9 May 2024 12:07

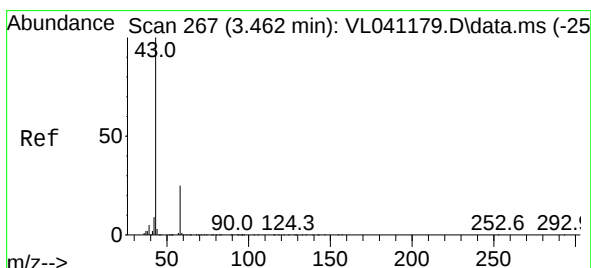
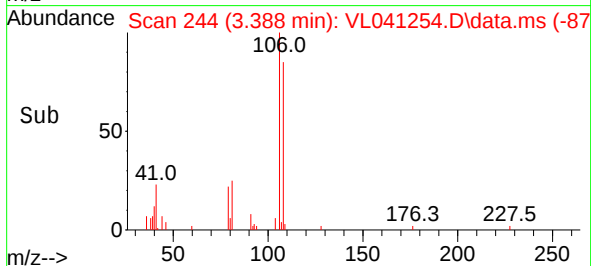
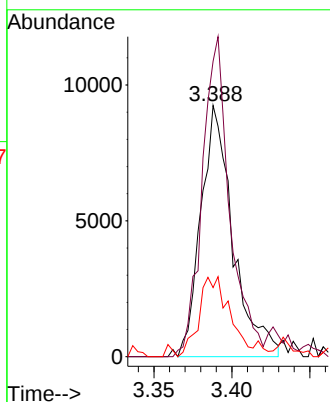
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	108	Resp:	13242
Ion	Ratio	Lower	Upper
108	100		
106	119.4	88.2	132.4
79	33.0	17.4	26.0#



#15

Acetone

Concen: 0.515 ppbv

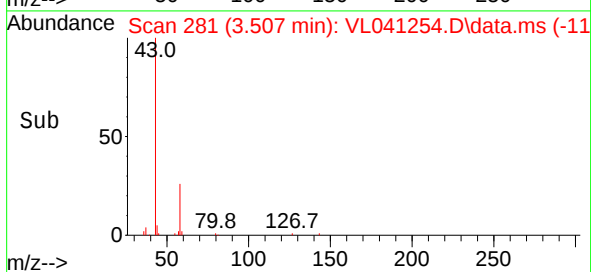
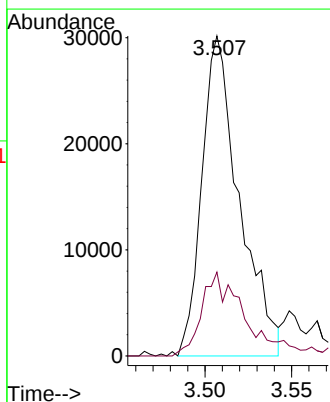
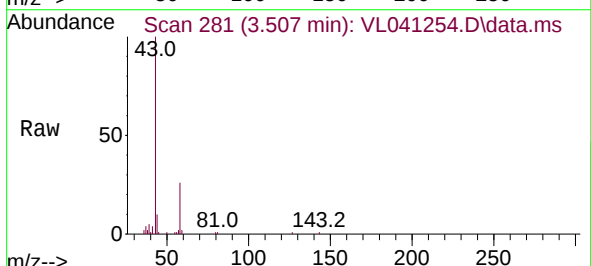
RT: 3.507 min Scan# 281

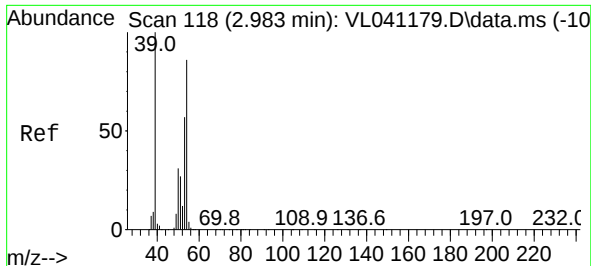
Delta R.T. 0.026 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Tgt Ion:	43	Resp:	45307
Ion	Ratio	Lower	Upper
43	100		
58	32.7	21.4	32.0#

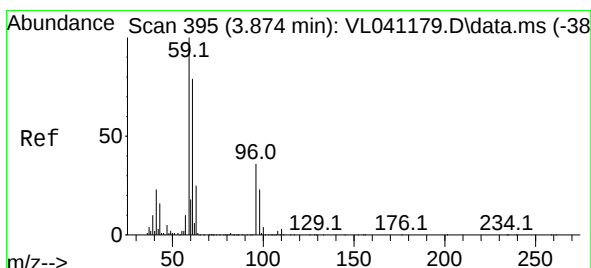
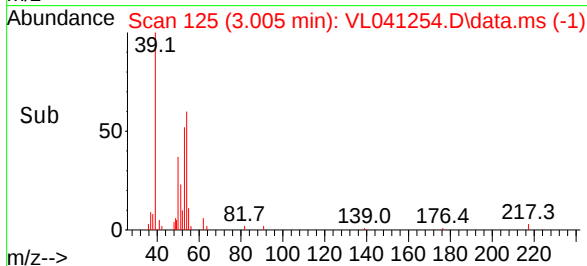
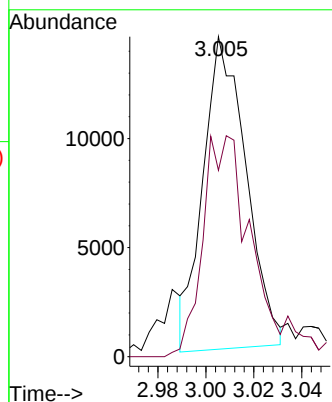
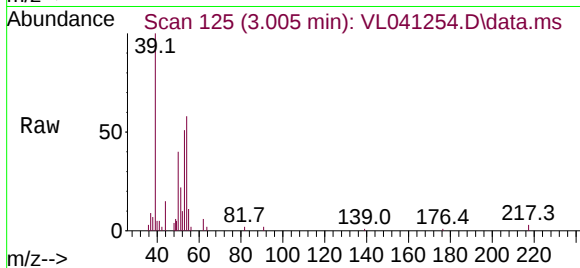




#16
1,3-Butadiene
Concen: 0.400 ppbv
RT: 3.005 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

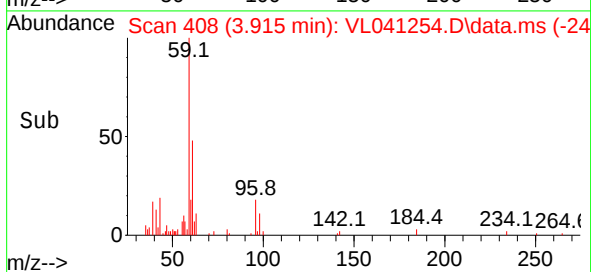
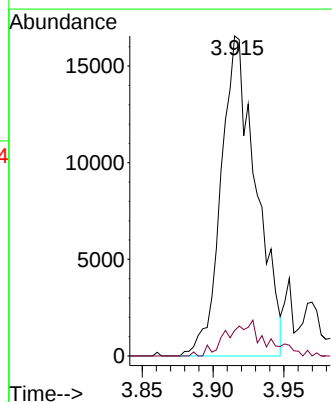
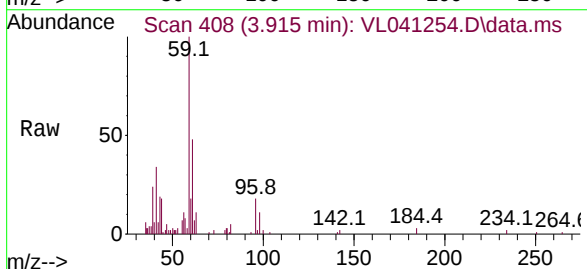
Instrument :
MSVOA_L
ClientSampleId :

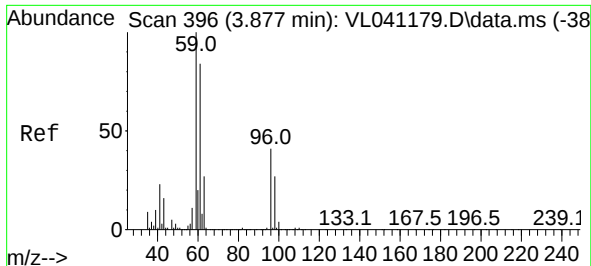
Tgt Ion: 39 Resp: 17785
Ion Ratio Lower Upper
39 100
54 84.6 62.2 93.4



#17
tert-Butyl alcohol
Concen: 0.300 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.026 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 59 Resp: 28479
Ion Ratio Lower Upper
59 100
57 12.4 8.4 12.6





#18

1,1-Dichloroethene

Concen: 0.194 ppbv

RT: 3.896 min Scan# 402

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

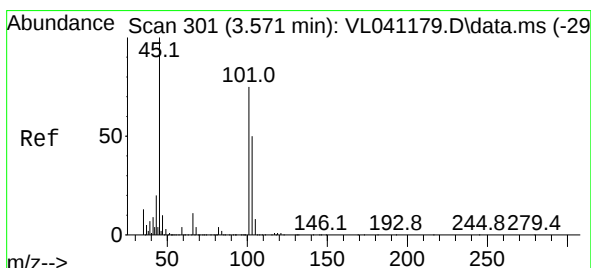
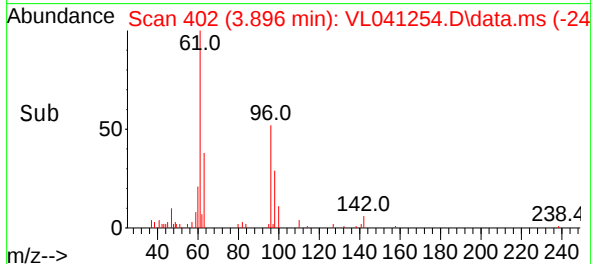
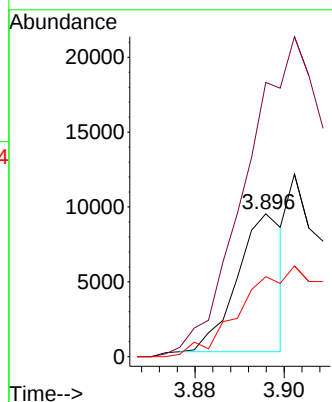
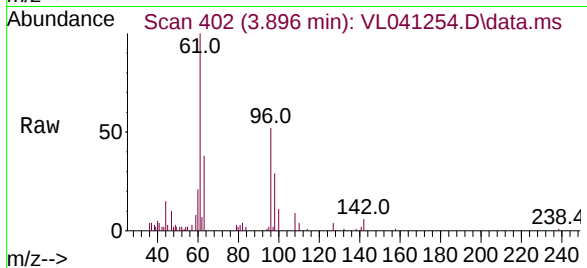
Tgt Ion: 96 Resp: 6572

Ion Ratio Lower Upper

96 100

61 192.0 164.4 246.6

98 56.2 51.8 77.8



#19

Isopropyl Alcohol

Concen: 0.152 ppbv

RT: 3.613 min Scan# 314

Delta R.T. 0.022 min

Lab File: VL041254.D

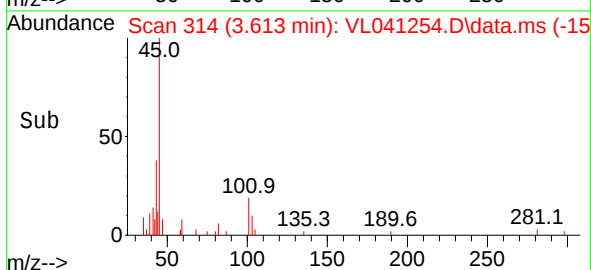
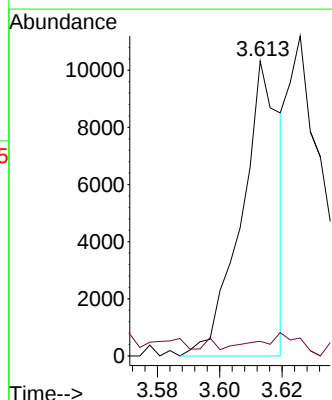
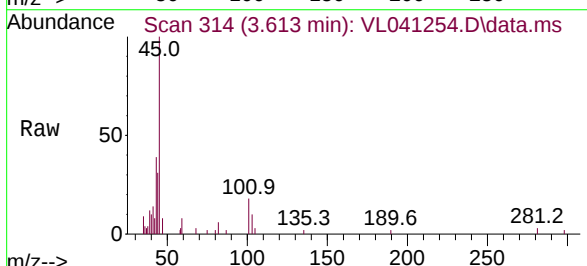
Acq: 9 May 2024 12:07

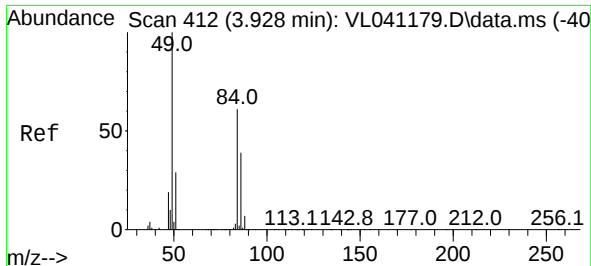
Tgt Ion: 45 Resp: 8763

Ion Ratio Lower Upper

45 100

58 13.3 26.8 40.2#





#20

Methylene Chloride

Concen: 0.534 ppbv

RT: 3.954 min Scan# 41

Delta R.T. 0.006 min

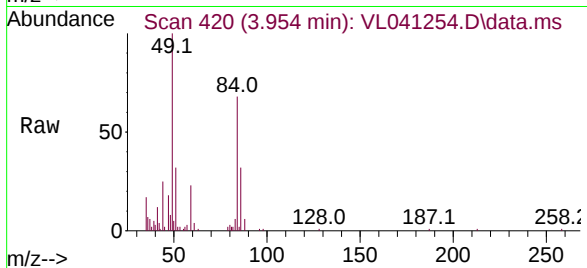
Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 16337

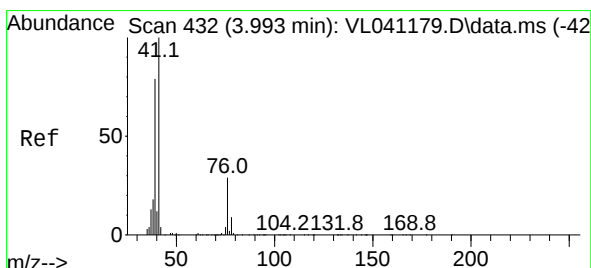
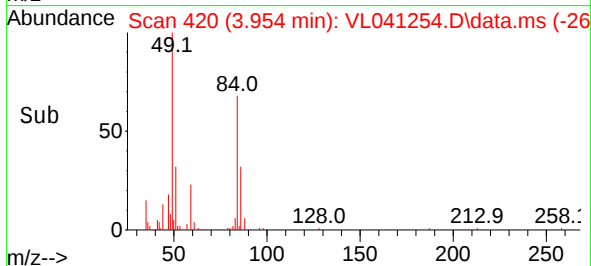
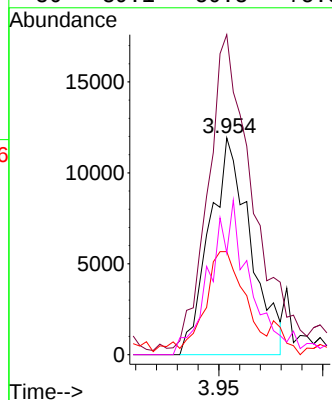
Ion Ratio Lower Upper

84 100

49 138.9 130.4 195.6

51 44.6 38.0 57.0

86 39.1 50.3 75.5#



#21

Allyl Chloride

Concen: 0.376 ppbv

RT: 4.018 min Scan# 440

Delta R.T. 0.006 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

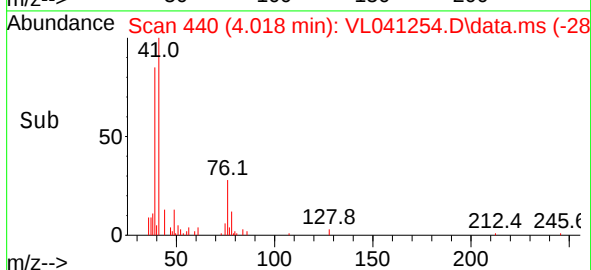
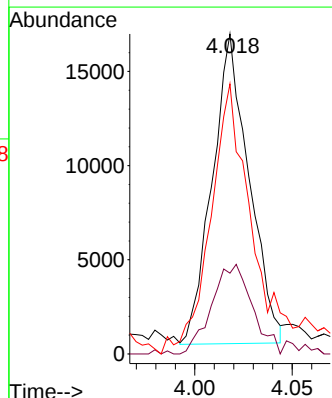
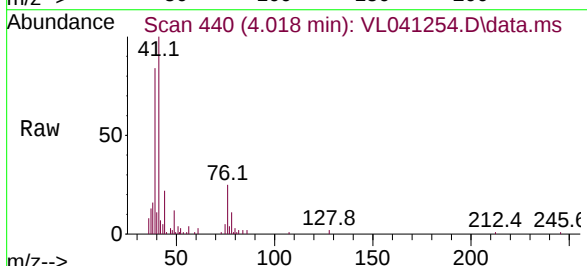
Tgt Ion: 41 Resp: 21572

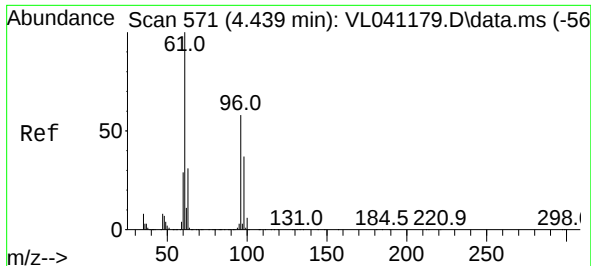
Ion Ratio Lower Upper

41 100

76 33.3 23.7 35.5

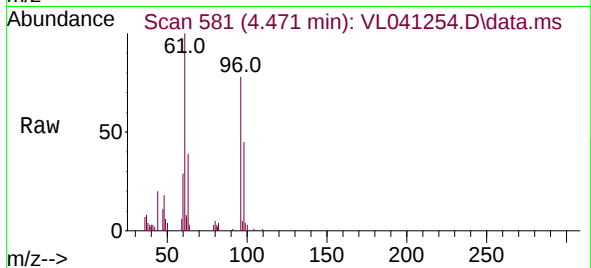
39 109.5 64.7 97.1#



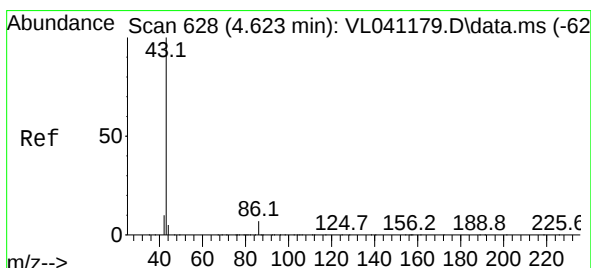
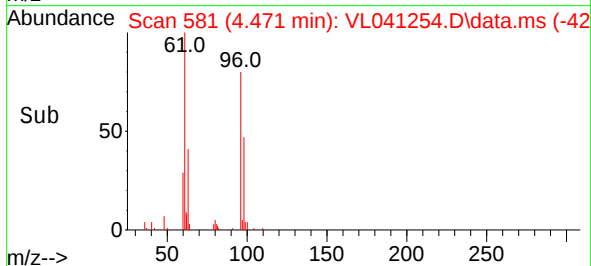
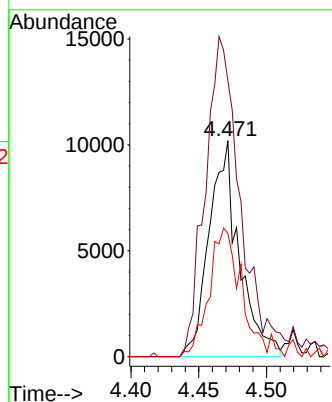


#22
trans-1,2-Dichloroethene
Concen: 0.448 ppbv
RT: 4.471 min Scan# 51
Delta R.T. 0.010 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Instrument :
MSVOA_L
ClientSampleId :

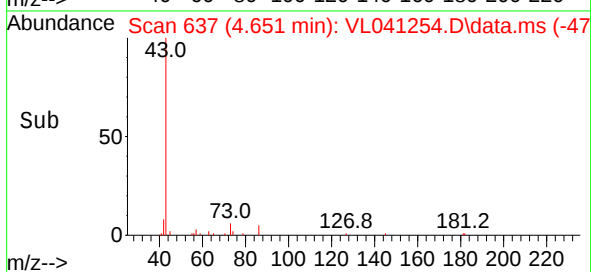
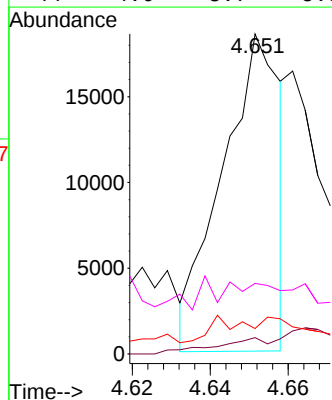
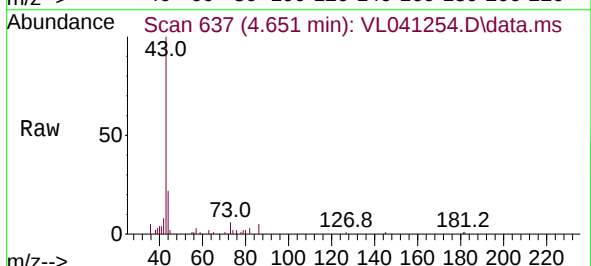


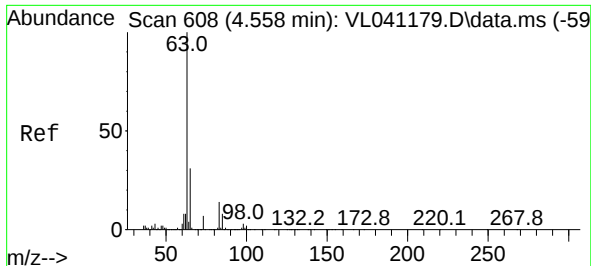
Tgt Ion: 96 Resp: 15758
Ion Ratio Lower Upper
96 100
61 127.8 137.6 206.4#
98 57.2 50.6 76.0



#23
Vinyl Acetate
Concen: 0.195 ppbv
RT: 4.651 min Scan# 637
Delta R.T. 0.013 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 43 Resp: 18935
Ion Ratio Lower Upper
43 100
86 4.5 4.9 7.3#
42 5.3 8.0 12.0#
44 4.0 3.7 5.5

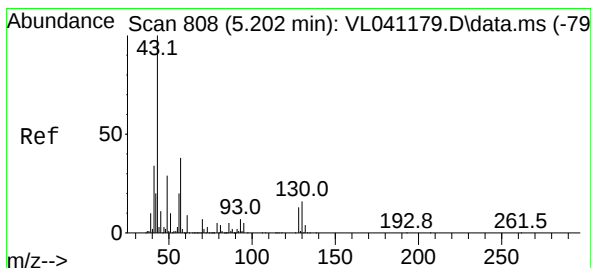
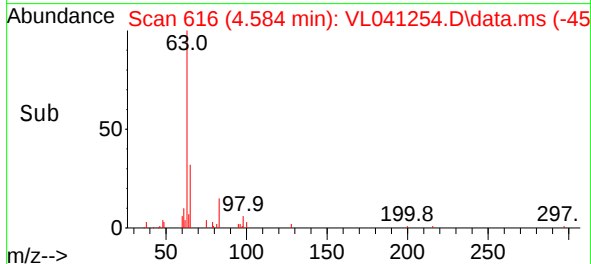
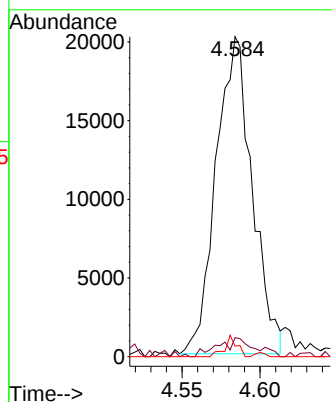
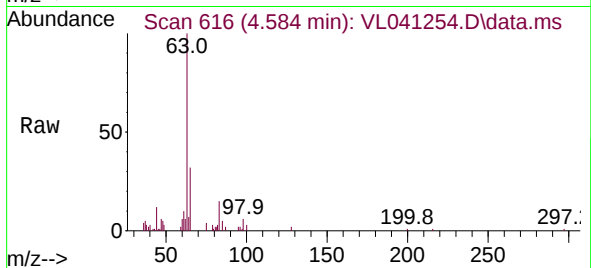




#24
1,1-Dichloroethane
Concen: 0.430 ppbv
RT: 4.584 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

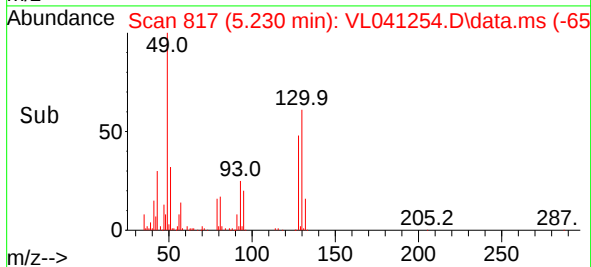
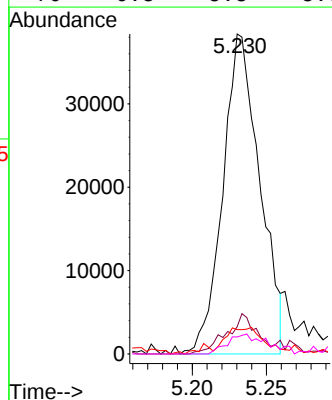
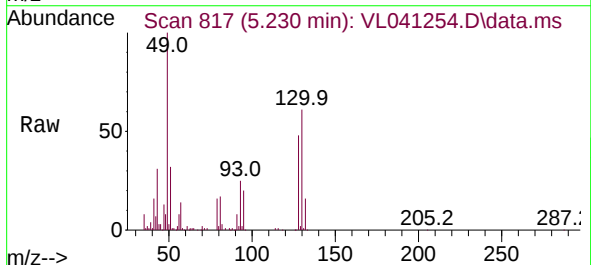
Instrument :
MSVOA_L
ClientSampleId :

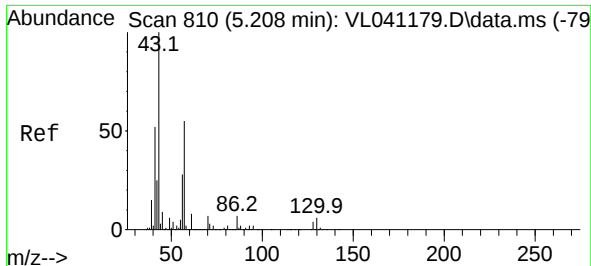
Tgt Ion: 63 Resp: 32417
Ion Ratio Lower Upper
63 100
98 6.0 1.6 4.8#
100 3.3 1.1 3.5



#25
Ethyl Acetate
Concen: 0.377 ppbv
RT: 5.230 min Scan# 817
Delta R.T. 0.010 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 43 Resp: 66221
Ion Ratio Lower Upper
43 100
45 12.8 8.2 12.2#
61 11.0 7.7 11.5
70 6.8 5.8 8.6





#26

Hexane

Concen: 0.388 ppbv

RT: 5.233 min Scan# 810

Delta R.T. 0.006 min

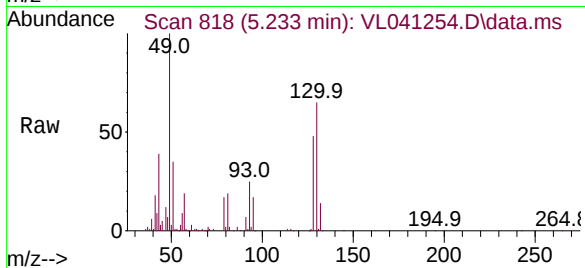
Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 57 Resp: 30448

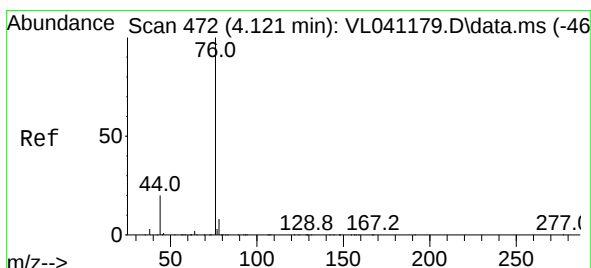
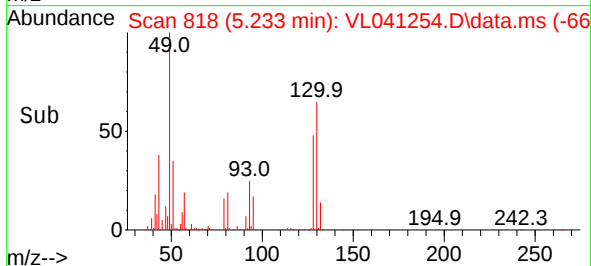
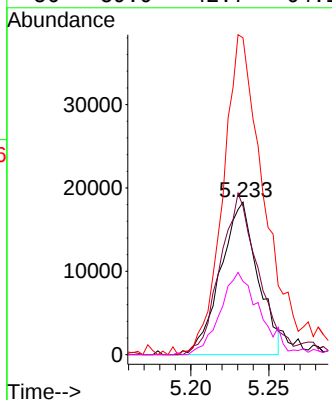
Ion Ratio Lower Upper

57 100

41 115.7 75.8 113.8#

43 254.3 187.0 280.4

56 59.9 42.7 64.1



#27

Carbon Disulfide

Concen: 0.390 ppbv

RT: 4.147 min Scan# 480

Delta R.T. 0.006 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

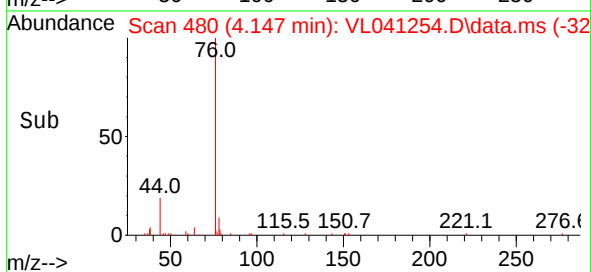
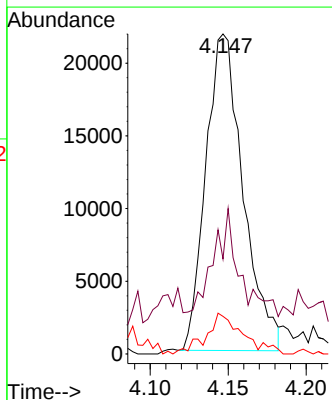
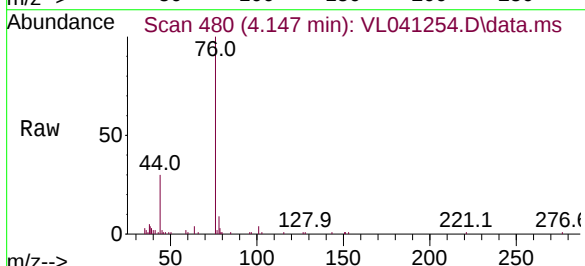
Tgt Ion: 76 Resp: 36211

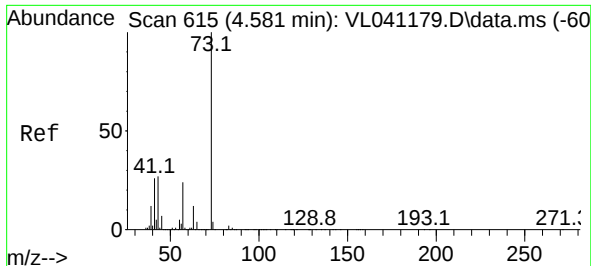
Ion Ratio Lower Upper

76 100

44 37.6 16.3 24.5#

78 12.6 7.3 10.9#





#28

Methyl tert-Butyl Ether

Concen: 0.164 ppbv

RT: 4.613 min Scan# 615

Delta R.T. 0.013 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

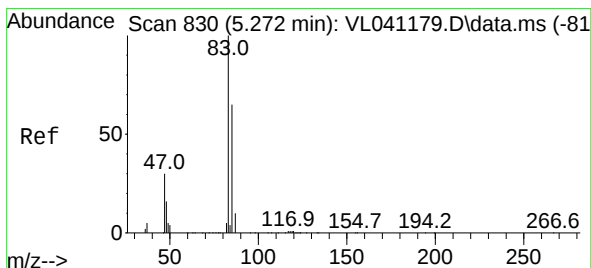
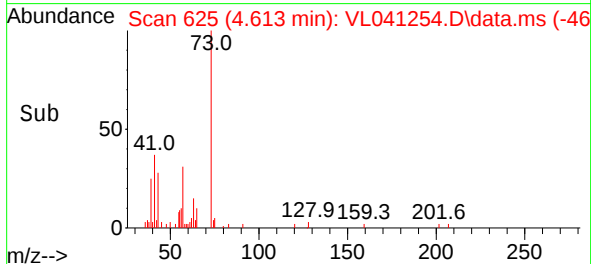
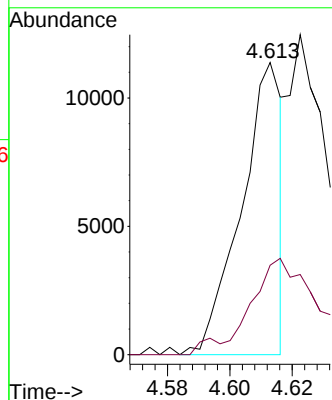
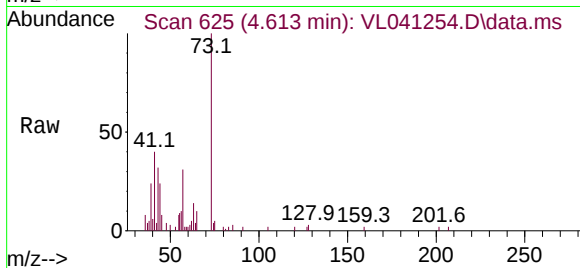
ClientSampleId :

Tgt Ion: 73 Resp: 10238

Ion Ratio Lower Upper

73 100

57 61.3 18.8 28.2#



#29

Chloroform

Concen: 0.495 ppbv

RT: 5.295 min Scan# 837

Delta R.T. 0.006 min

Lab File: VL041254.D

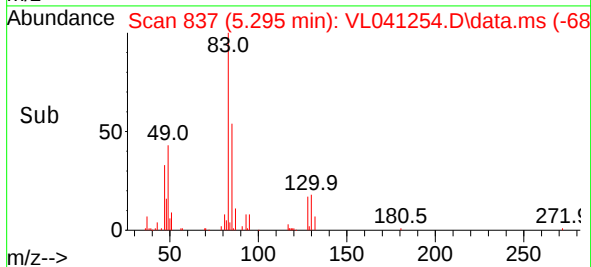
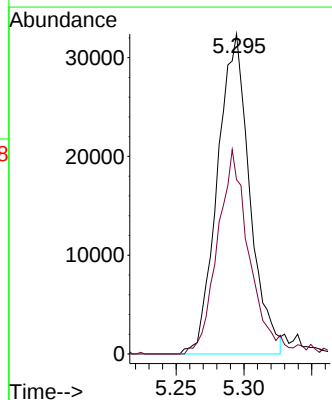
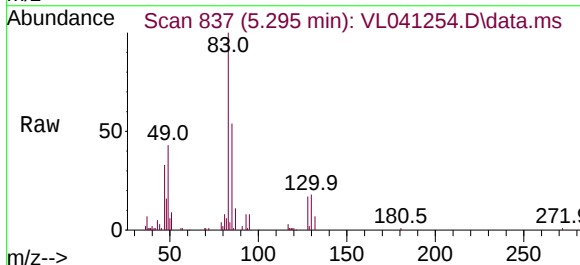
Acq: 9 May 2024 12:07

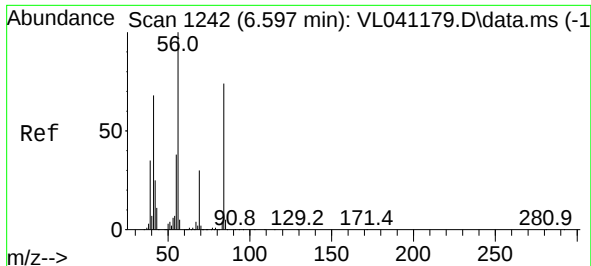
Tgt Ion: 83 Resp: 53592

Ion Ratio Lower Upper

83 100

85 54.5 51.7 77.5





#30

Cyclohexane

Concen: 0.369 ppbv

RT: 6.619 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

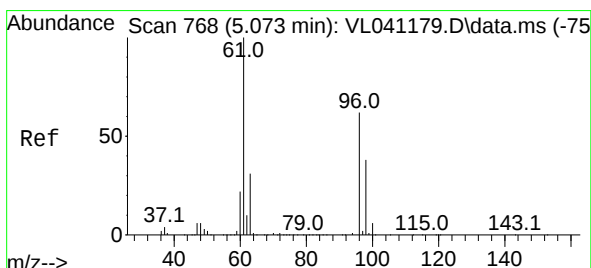
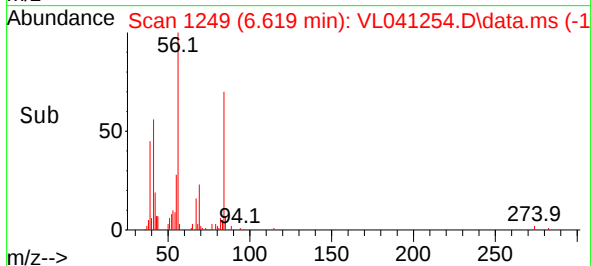
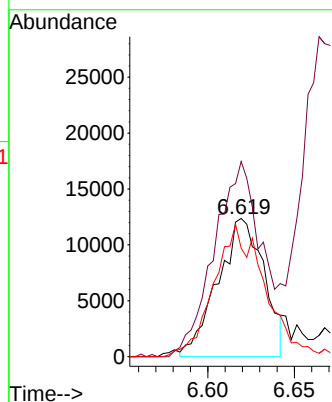
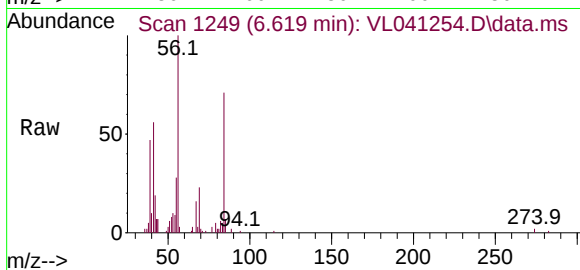
Tgt Ion: 84 Resp: 22935

Ion Ratio Lower Upper

84 100

56 147.1 116.8 175.2

41 105.5 73.8 110.8



#31

cis-1,2-Dichloroethene

Concen: 0.398 ppbv

RT: 5.095 min Scan# 775

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

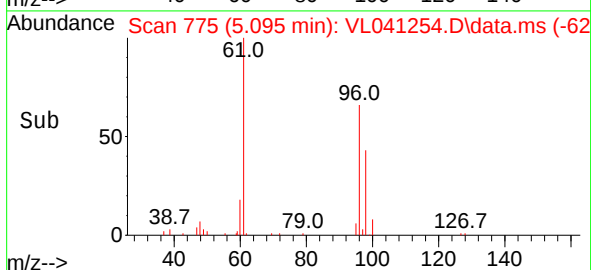
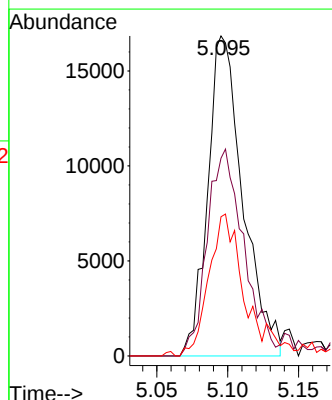
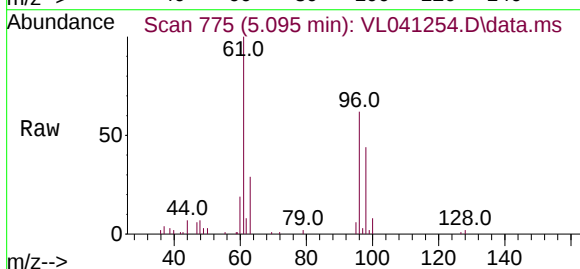
Tgt Ion: 61 Resp: 29191

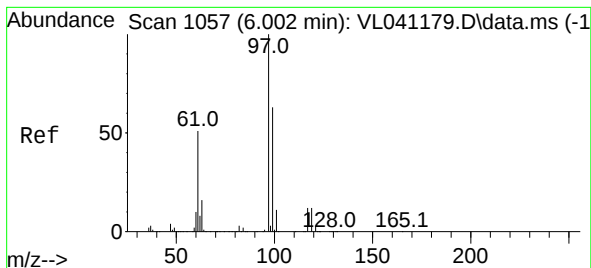
Ion Ratio Lower Upper

61 100

96 57.5 49.8 74.6

98 40.4 30.0 45.0





#32

1,1,1-Trichloroethane

Concen: 0.239 ppbv

RT: 6.018 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

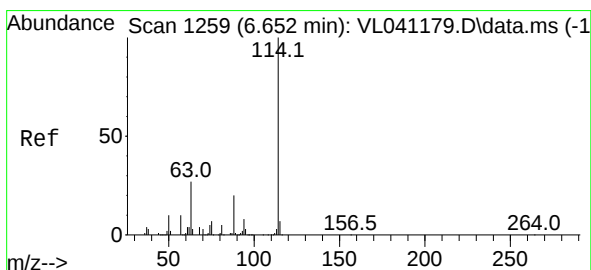
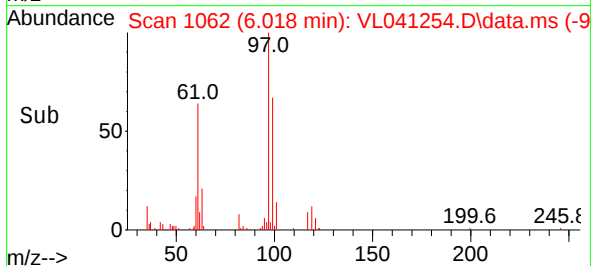
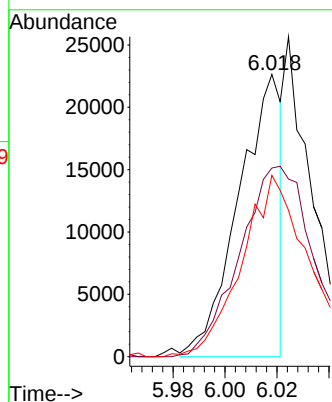
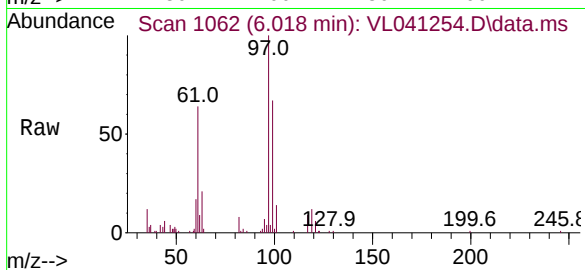
Tgt Ion: 97 Resp: 25799

Ion Ratio Lower Upper

97 100

99 122.4 51.7 77.5#

61 103.9 41.1 61.7#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.667 min Scan# 1264

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

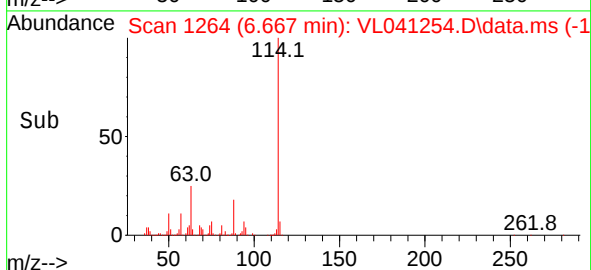
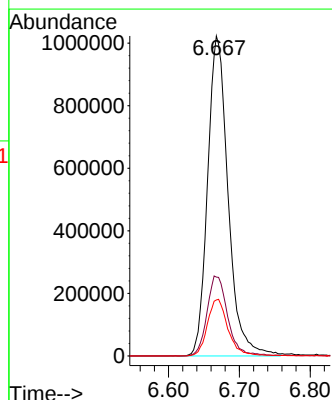
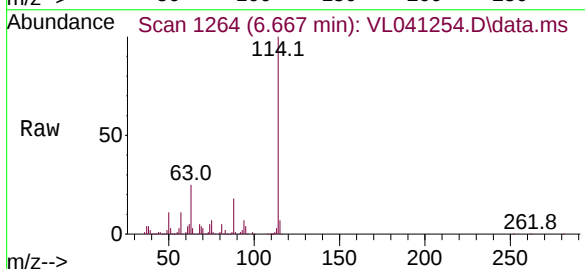
Tgt Ion:114 Resp: 2055920

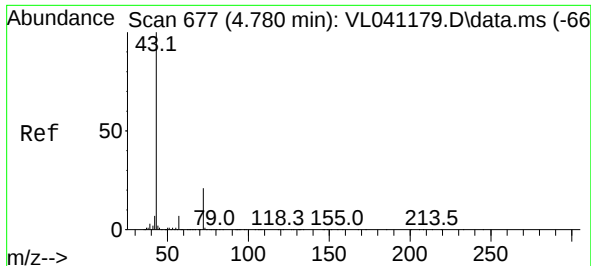
Ion Ratio Lower Upper

114 100

63 25.4 21.8 32.6

88 17.9 15.2 22.8





#34

2-Butanone

Concen: 0.332 ppbv

RT: 4.819 min Scan# 61

Delta R.T. 0.019 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

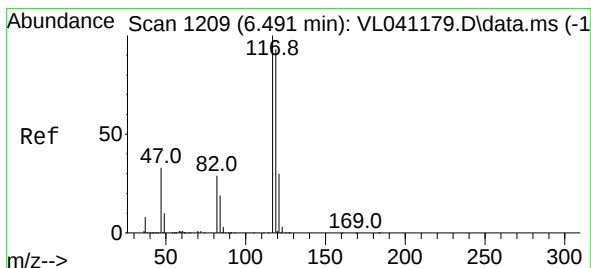
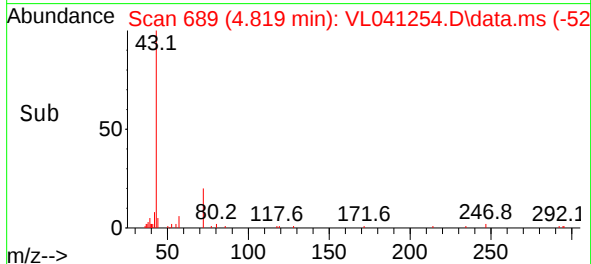
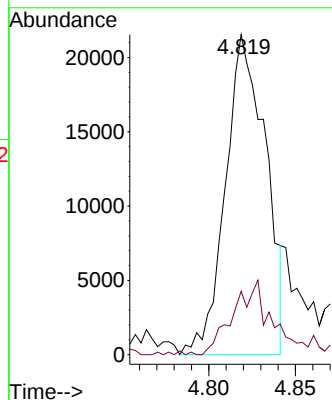
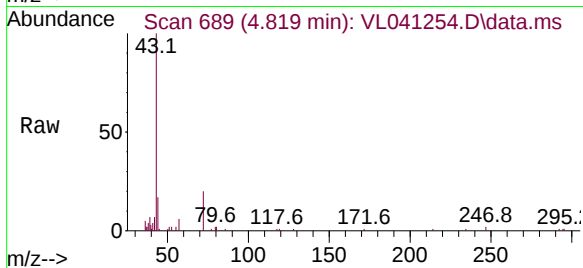
ClientSampleId :

Tgt Ion: 43 Resp: 34784

Ion Ratio Lower Upper

43 100

72 24.0 17.3 25.9



#35

Carbon Tetrachloride

Concen: 0.284 ppbv

RT: 6.510 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

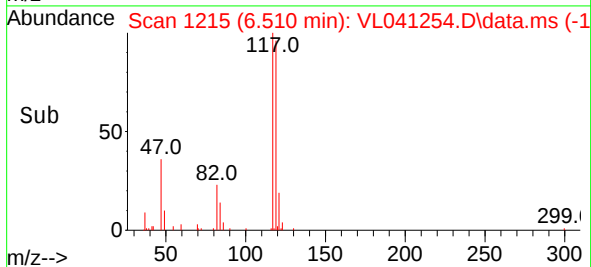
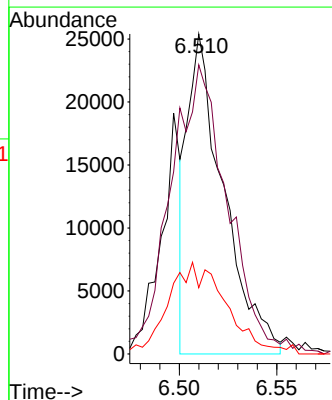
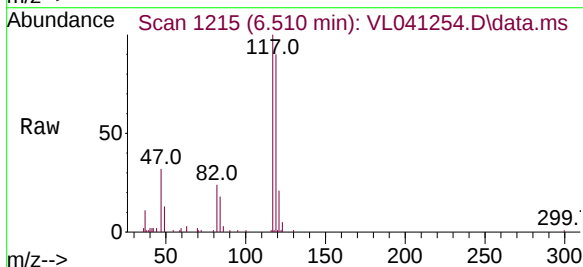
Tgt Ion: 117 Resp: 32815

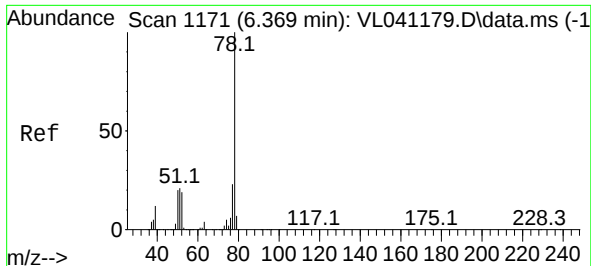
Ion Ratio Lower Upper

117 100

119 90.6 74.3 111.5

121 19.4 23.8 35.8#

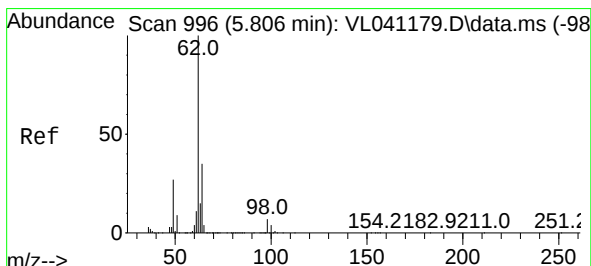
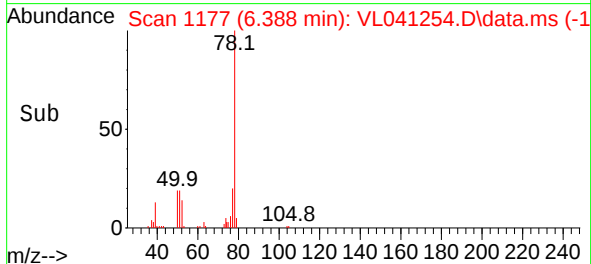
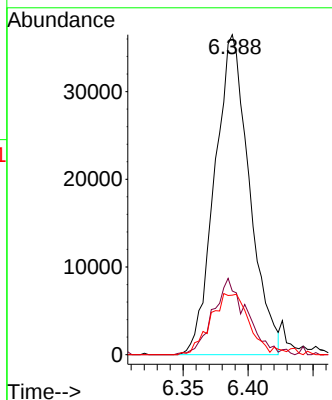
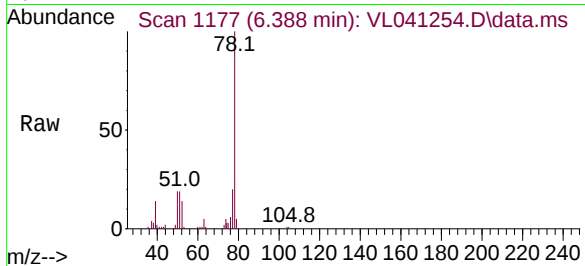




#36
Benzene
Concen: 0.392 ppbv
RT: 6.388 min Scan# 1171
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

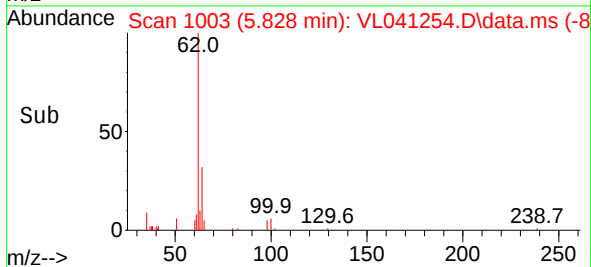
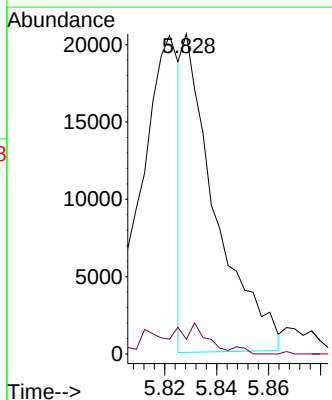
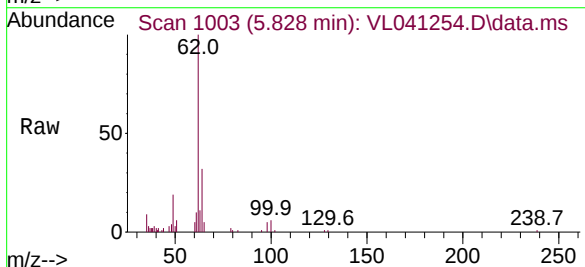
Instrument :
MSVOA_L
ClientSampleId :

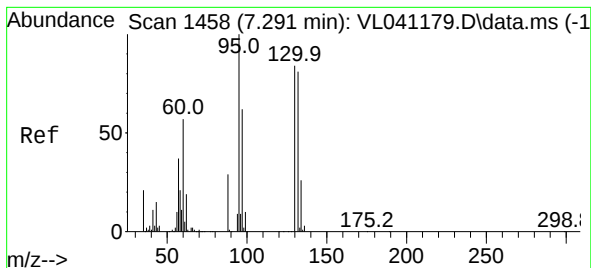
Tgt Ion: 78 Resp: 67652
Ion Ratio Lower Upper
78 100
77 19.5 18.3 27.5
50 18.6 15.9 23.9



#37
1,2-Dichloroethane
Concen: 0.200 ppbv
RT: 5.828 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 62 Resp: 18036
Ion Ratio Lower Upper
62 100
98 15.9 5.0 7.4#





#38

Trichloroethene

Concen: 0.412 ppbv

RT: 7.304 min Scan# 1458

Delta R.T. -0.003 min

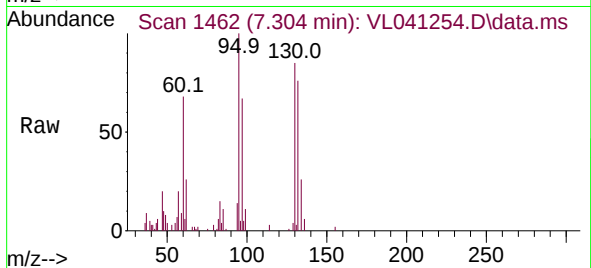
Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:130 Resp: 26488

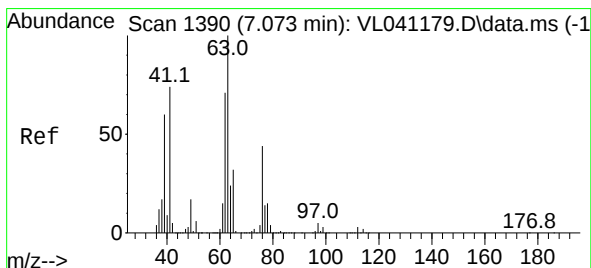
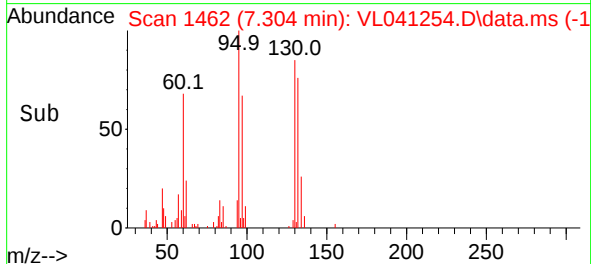
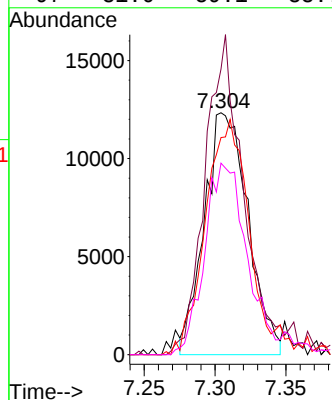
Ion Ratio Lower Upper

130 100

95 118.6 95.0 142.6

132 93.2 77.0 115.4

97 81.0 59.1 88.7



#39

1,2-Dichloropropane

Concen: 0.193 ppbv

RT: 7.089 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

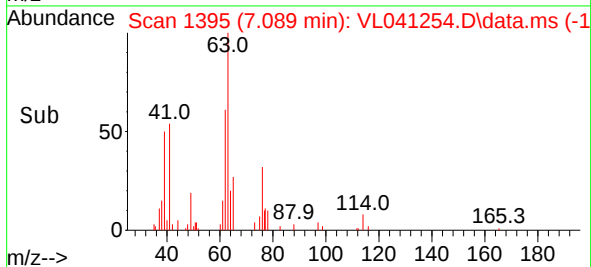
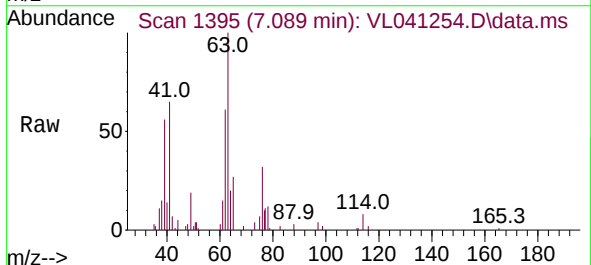
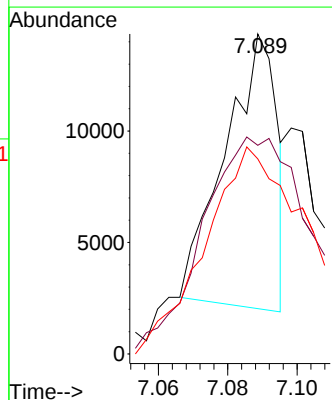
Tgt Ion: 63 Resp: 12832

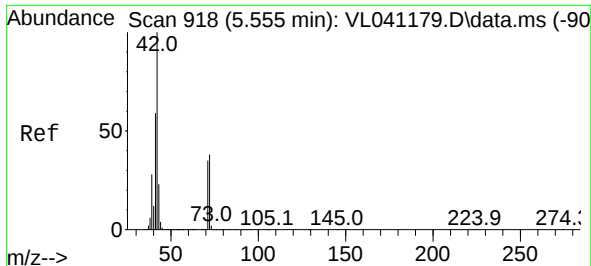
Ion Ratio Lower Upper

63 100

41 68.3 59.4 89.0

62 62.6 56.8 85.2





#41

Tetrahydrofuran

Concen: 0.261 ppbv

RT: 5.600 min Scan# 91

Delta R.T. 0.029 min

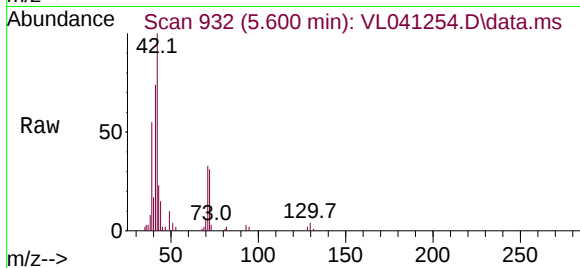
Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :



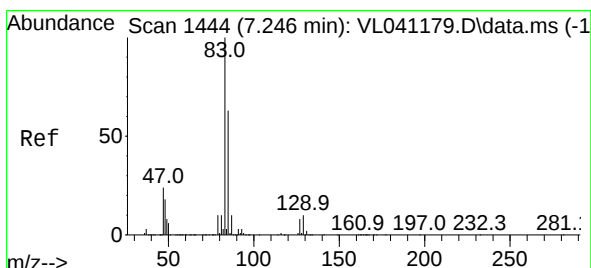
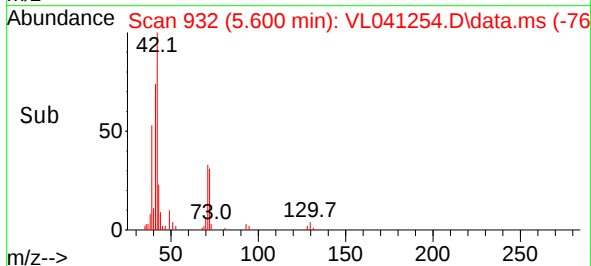
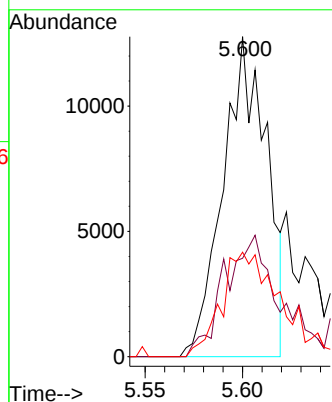
Tgt Ion: 42 Resp: 19772

Ion Ratio Lower Upper

42 100

72 51.5 29.4 44.0#

71 49.3 29.1 43.7#



#42

Bromodichloromethane

Concen: 0.395 ppbv

RT: 7.266 min Scan# 1450

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

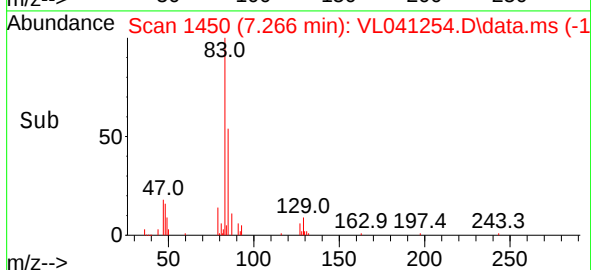
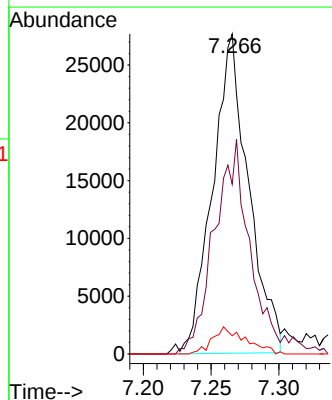
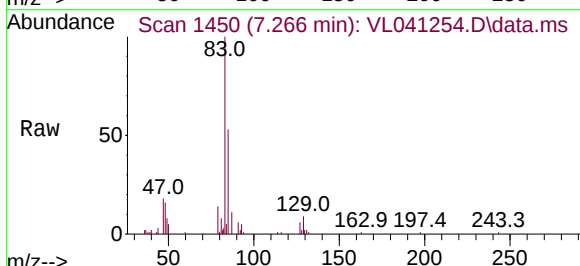
Tgt Ion: 83 Resp: 51056

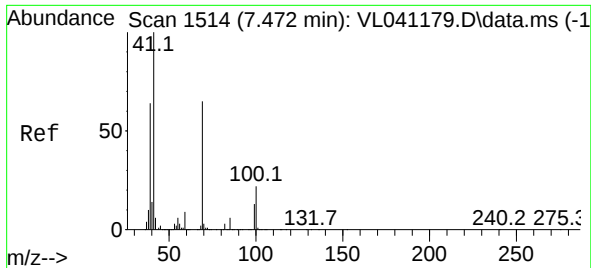
Ion Ratio Lower Upper

83 100

85 51.8 50.6 75.8

127 5.7 6.2 9.4#

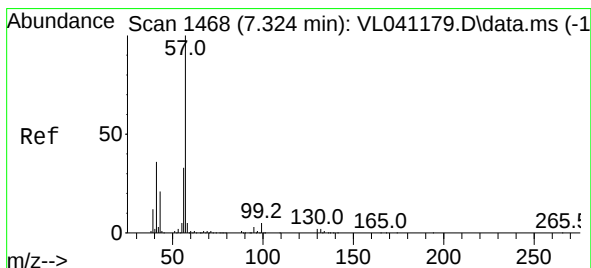
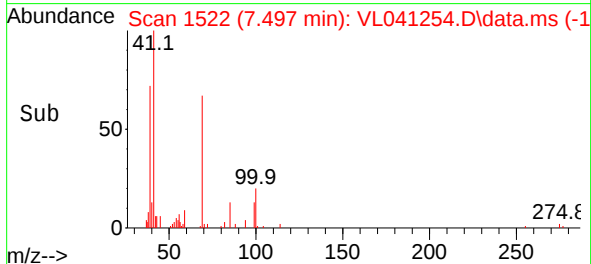
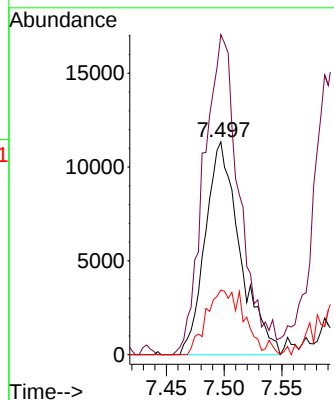
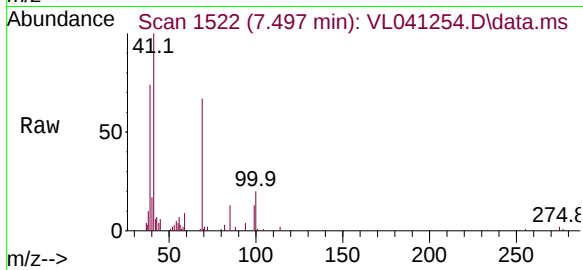




#43
Methyl Methacrylate
Concen: 0.339 ppbv
RT: 7.497 min Scan# 1473
Delta R.T. 0.010 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

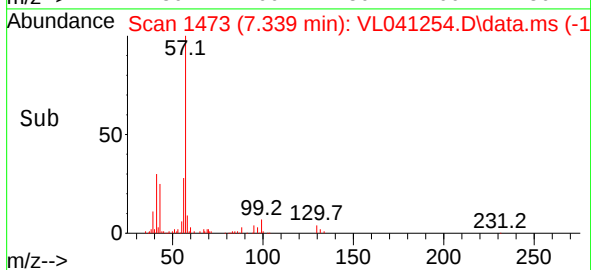
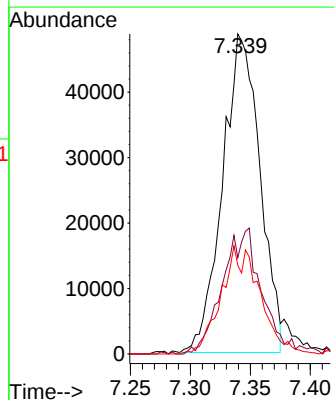
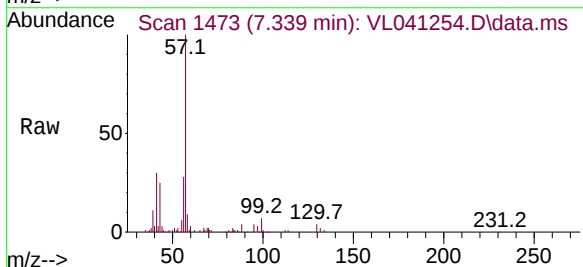
Instrument :
MSVOA_L
ClientSampleId :

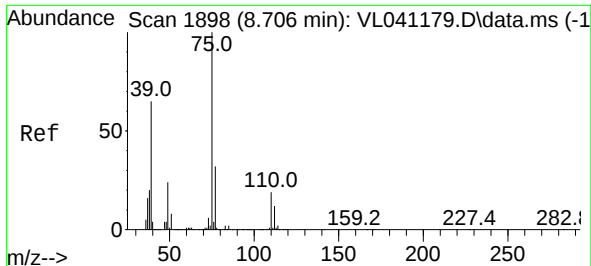
Tgt Ion: 69 Resp: 23684
Ion Ratio Lower Upper
69 100
41 154.5 125.2 187.8
100 34.1 26.7 40.1



#44
2,2,4-Trimethylpentane
Concen: 0.355 ppbv
RT: 7.339 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion: 57 Resp: 105748
Ion Ratio Lower Upper
57 100
41 42.5 29.5 44.3
56 35.2 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 0.178 ppbv

RT: 8.722 min Scan# 1898

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

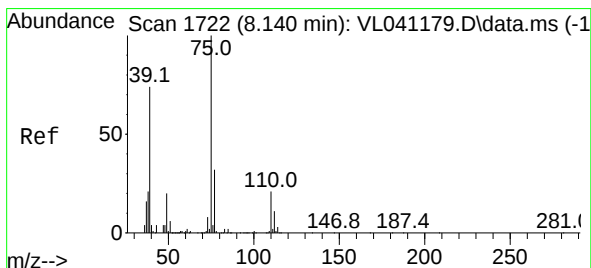
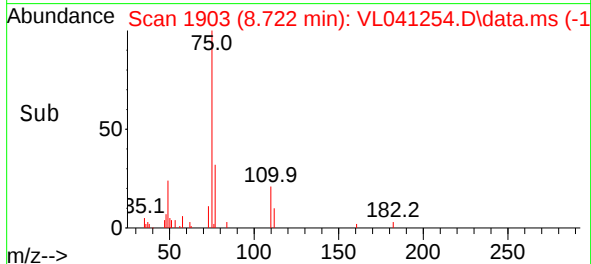
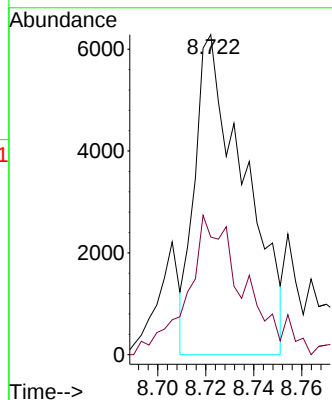
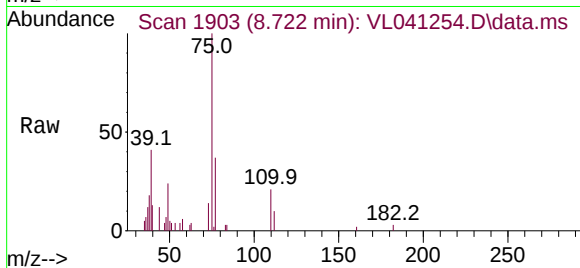
ClientSampleId :

Tgt Ion: 75 Resp: 8994

Ion Ratio Lower Upper

75 100

77 36.7 25.6 38.4



#46

cis-1,3-Dichloropropene

Concen: 0.147 ppbv

RT: 8.153 min Scan# 1726

Delta R.T. -0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

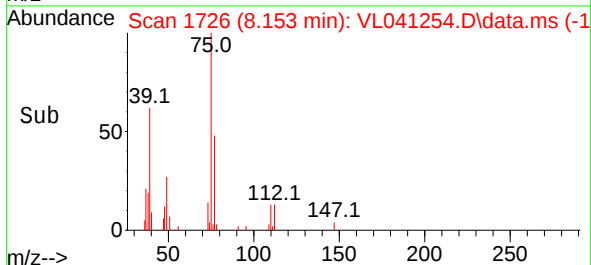
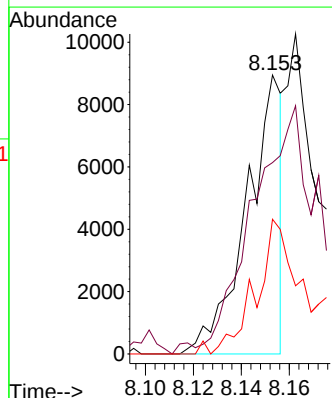
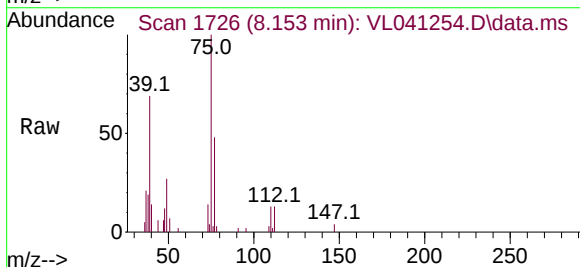
Tgt Ion: 75 Resp: 9116

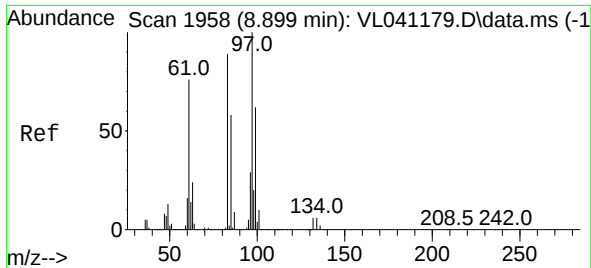
Ion Ratio Lower Upper

75 100

39 65.0 59.4 89.2

77 48.3 25.9 38.9#





#47

1,1,2-Trichloroethane

Concen: 0.176 ppbv

RT: 8.918 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 97 Resp: 11733

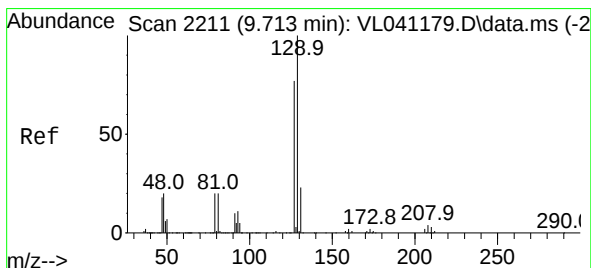
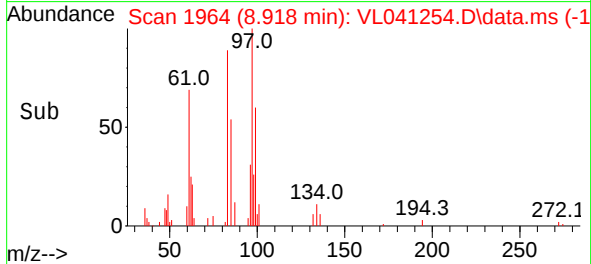
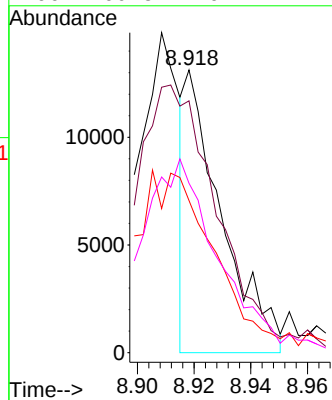
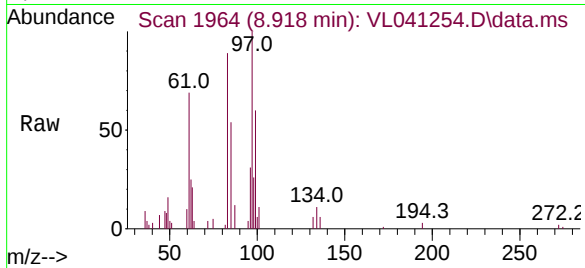
Ion Ratio Lower Upper

97 100

83 89.3 71.2 106.8

85 52.3 46.0 69.0

99 60.5 49.7 74.5



#48

Dibromochloromethane

Concen: 0.383 ppbv

RT: 9.728 min Scan# 2216

Delta R.T. 0.003 min

Lab File: VL041254.D

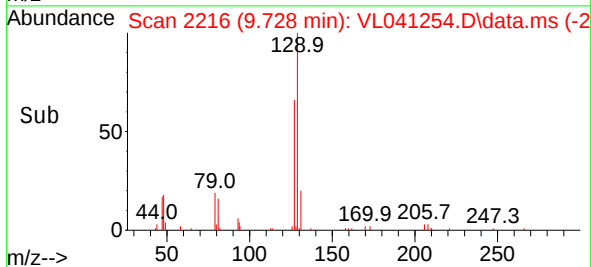
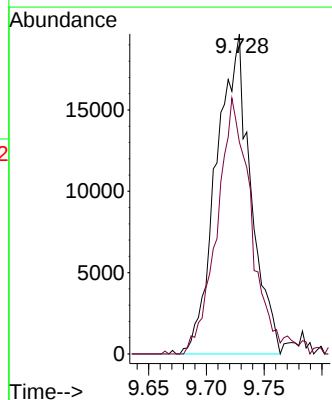
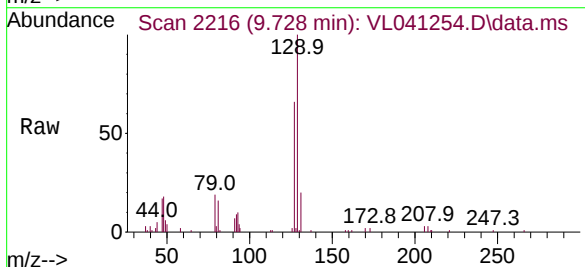
Acq: 9 May 2024 12:07

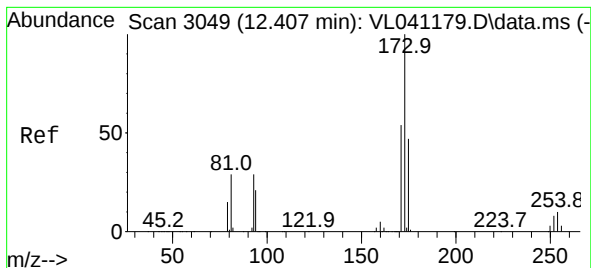
Tgt Ion: 129 Resp: 40647

Ion Ratio Lower Upper

129 100

127 82.1 39.1 117.5





#49

Bromoform

Concen: 0.209 ppbv

RT: 12.420 min Scan# 3049

Delta R.T. -0.000 min

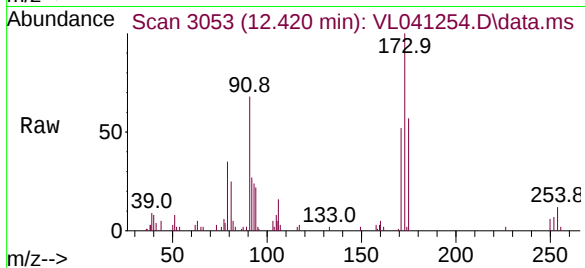
Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :



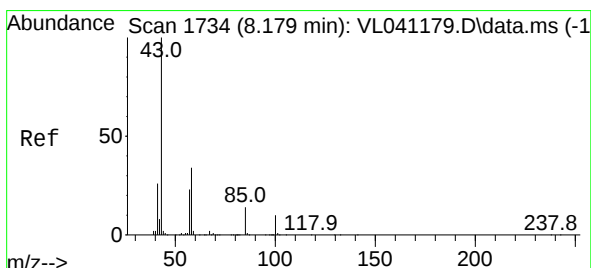
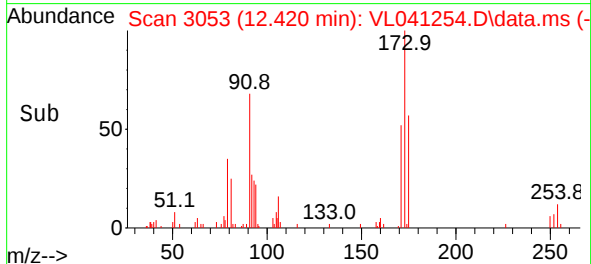
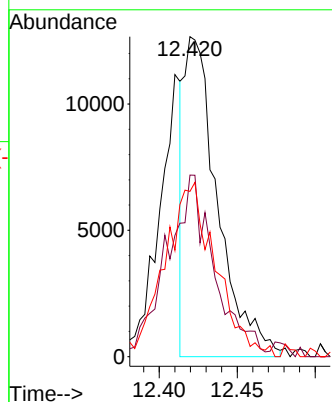
Tgt Ion:173 Resp: 18864

Ion Ratio Lower Upper

173 100

175 83.1 39.8 59.8#

171 83.4 41.8 62.8#



#50

4-Methyl-2-Pentanone

Concen: 0.101 ppbv

RT: 8.208 min Scan# 1743

Delta R.T. 0.013 min

Lab File: VL041254.D

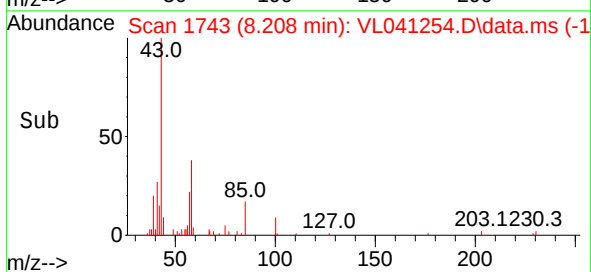
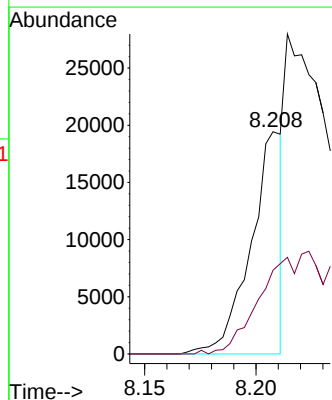
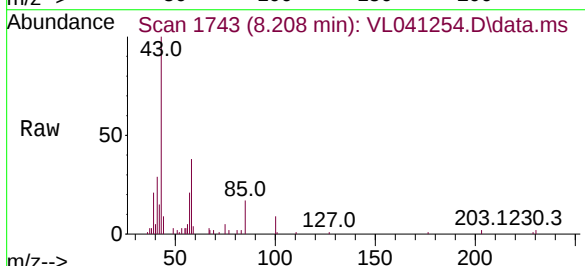
Acq: 9 May 2024 12:07

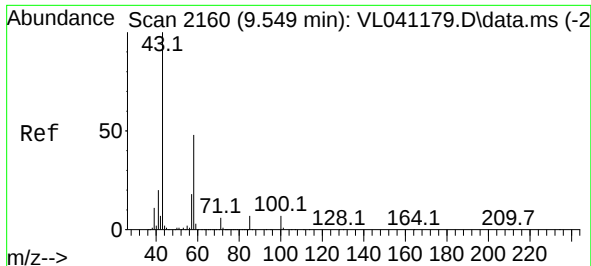
Tgt Ion: 43 Resp: 18979

Ion Ratio Lower Upper

43 100

58 0.0 27.7 41.5#

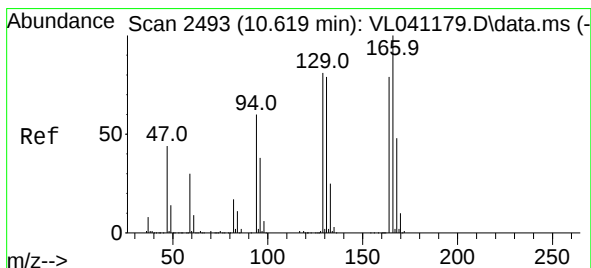
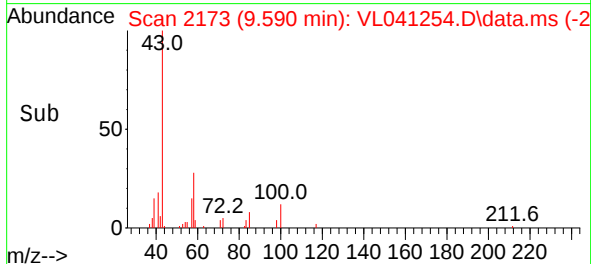
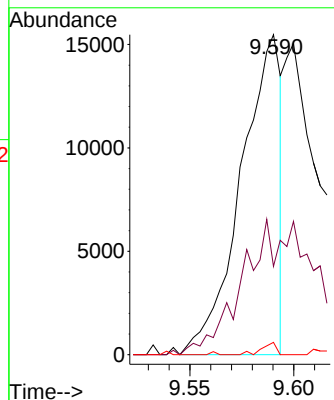
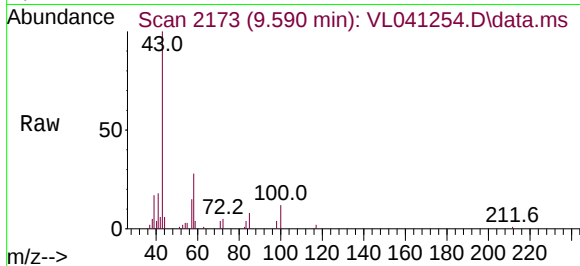




#51
2-Hexanone
Concen: 0.147 ppbv
RT: 9.590 min Scan# 2160
Delta R.T. 0.026 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

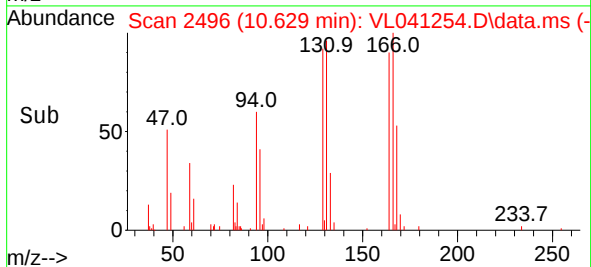
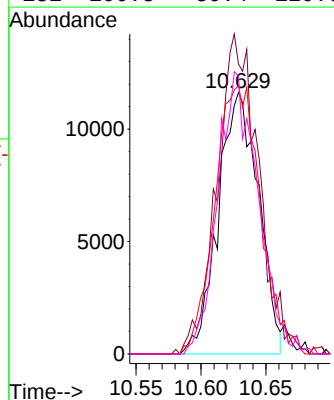
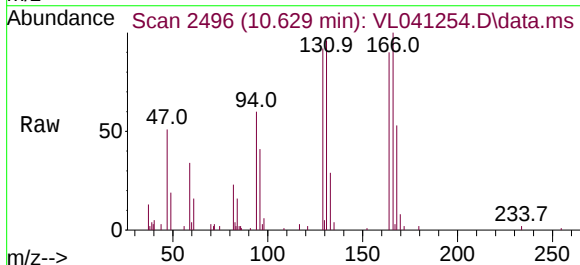
Instrument :
MSVOA_L
ClientSampleId :

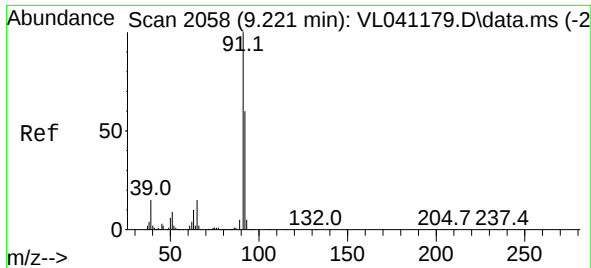
Tgt Ion: 43 Resp: 20525
Ion Ratio Lower Upper
43 100
58 97.5 38.4 57.6#
98 1.4 0.0 0.0#



#52
Tetrachloroethene
Concen: 0.413 ppbv
RT: 10.629 min Scan# 2496
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion:164 Resp: 25058
Ion Ratio Lower Upper
164 100
166 111.0 101.1 151.7
129 102.6 81.7 122.5
131 106.3 80.4 120.6





#53

Toluene

Concen: 0.361 ppbv

RT: 9.237 min Scan# 2058

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

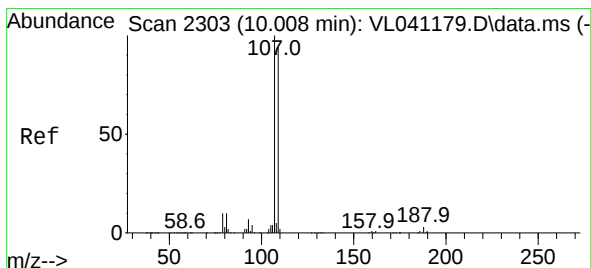
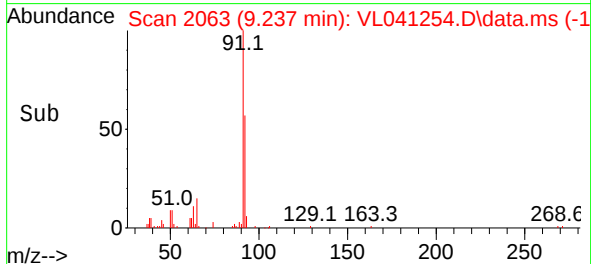
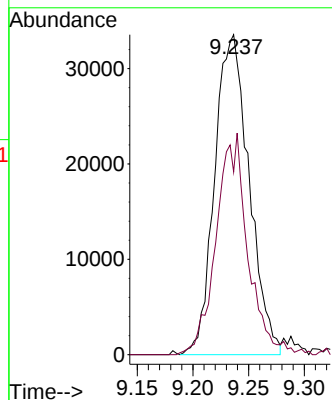
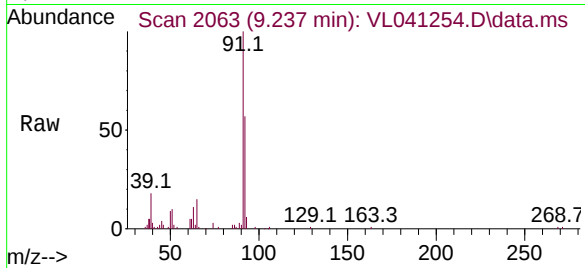
ClientSampleId :

Tgt Ion: 91 Resp: 72204

Ion Ratio Lower Upper

91 100

92 63.6 48.2 72.4



#54

1,2-Dibromoethane

Concen: 0.380 ppbv

RT: 10.024 min Scan# 2308

Delta R.T. 0.003 min

Lab File: VL041254.D

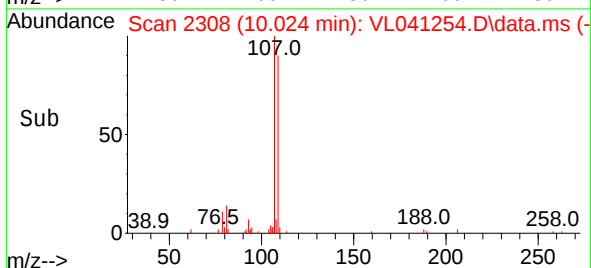
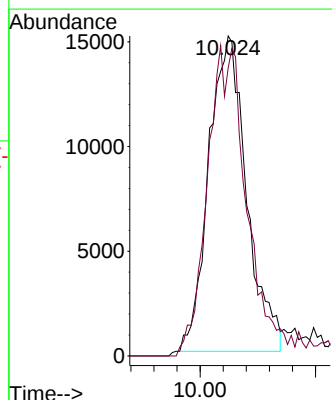
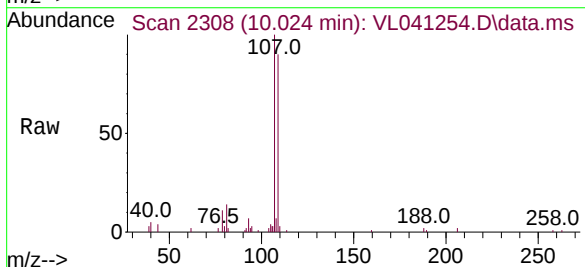
Acq: 9 May 2024 12:07

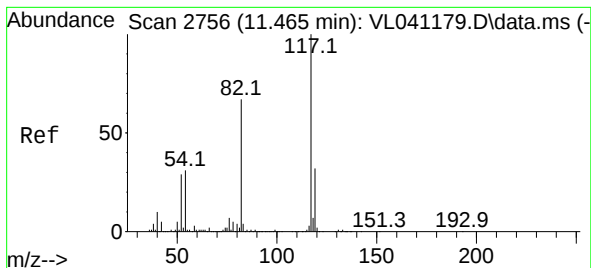
Tgt Ion: 107 Resp: 34293

Ion Ratio Lower Upper

107 100

109 88.5 75.2 112.8





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.481 min Scan# 2756

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

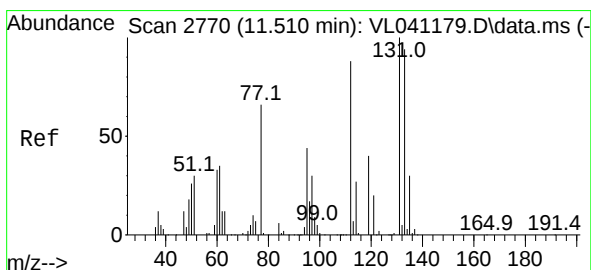
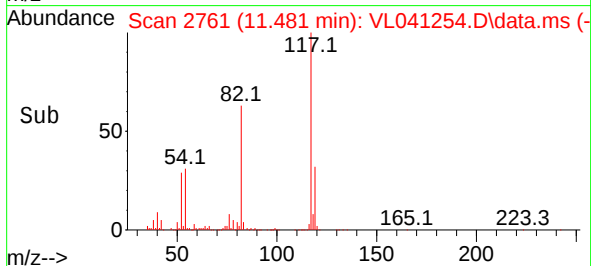
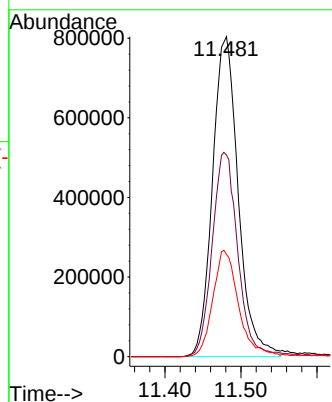
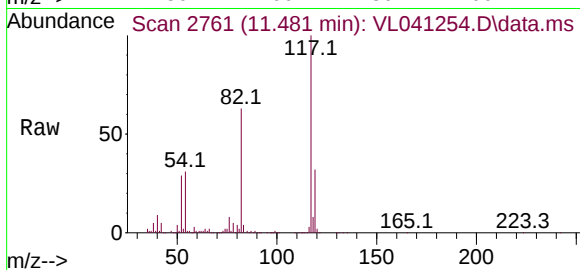
Tgt Ion:117 Resp: 1891052

Ion Ratio Lower Upper

117 100

82 64.5 53.6 80.4

119 33.4 27.2 40.8



#56

1,1,1,2-Tetrachloroethane

Concen: 0.328 ppbv

RT: 11.523 min Scan# 2774

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

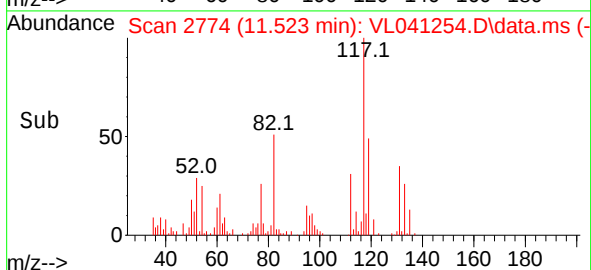
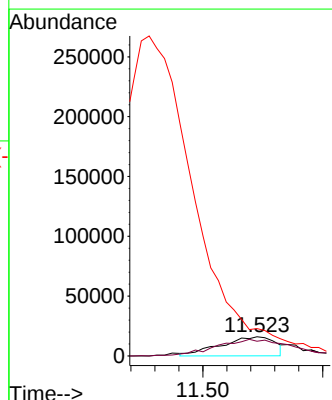
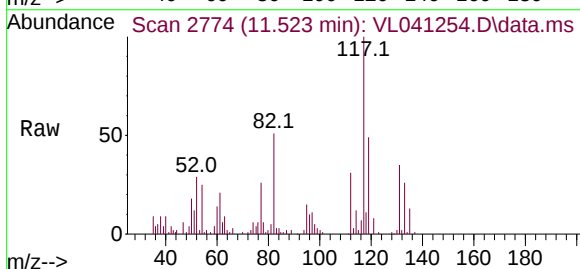
Tgt Ion:131 Resp: 25148

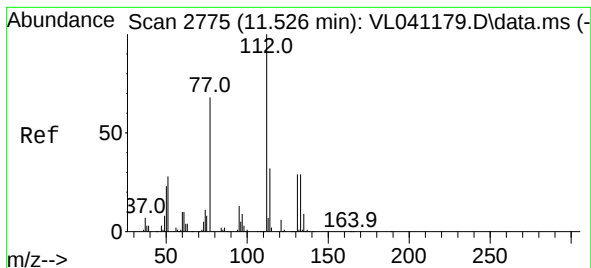
Ion Ratio Lower Upper

131 100

133 124.0 76.3 114.5#

119 0.0 49.4 74.2#





#57

Chlorobenzene

Concen: 0.427 ppbv

RT: 11.539 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041254.D

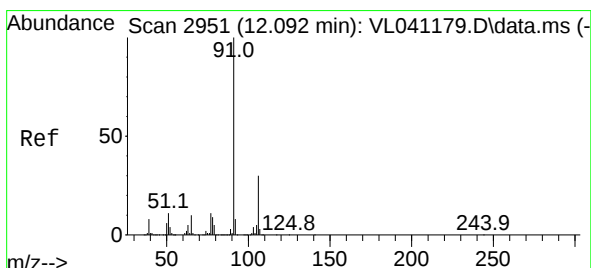
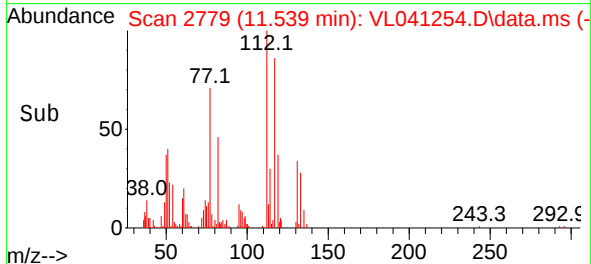
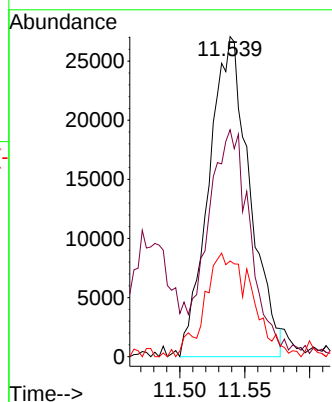
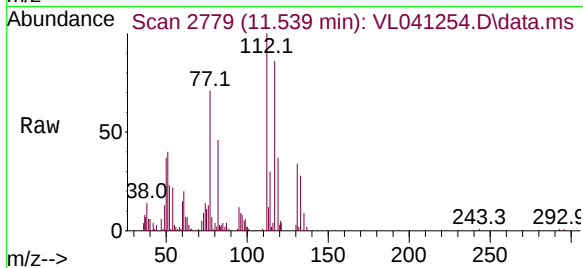
Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	112	Resp:	59154
Ion Ratio	Lower	Upper	
112	100		
77	67.7	54.9	82.3
114	28.1	28.7	35.1#



#58

Ethyl Benzene

Concen: 0.366 ppbv

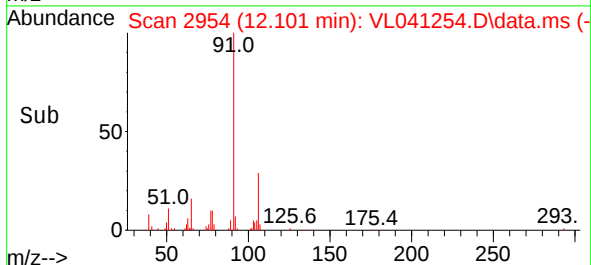
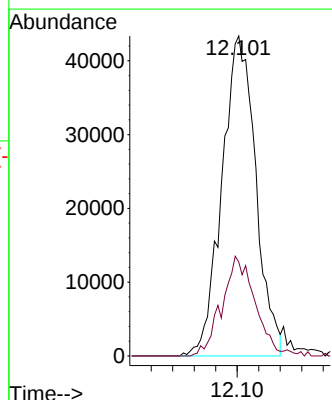
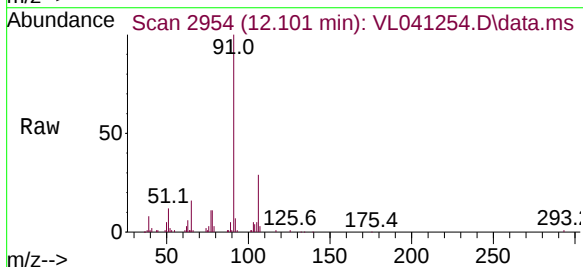
RT: 12.101 min Scan# 2954

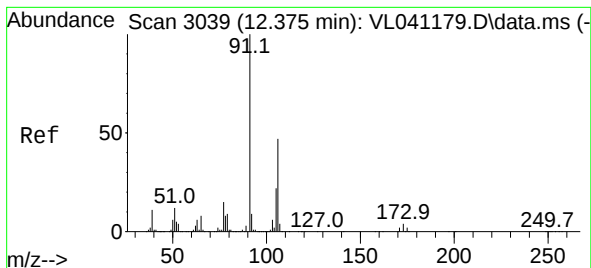
Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Tgt Ion:	91	Resp:	94793
Ion Ratio	Lower	Upper	
91	100		
106	29.4	24.3	36.5





#59

m/p-Xylene

Concen: 0.255 ppbv

RT: 12.388 min Scan# 3039

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

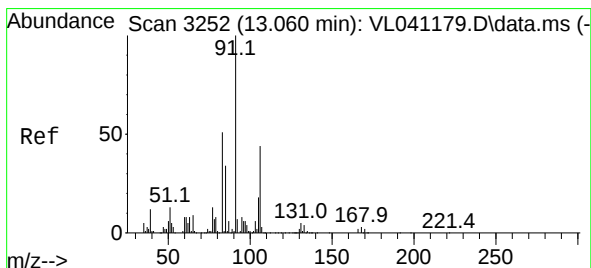
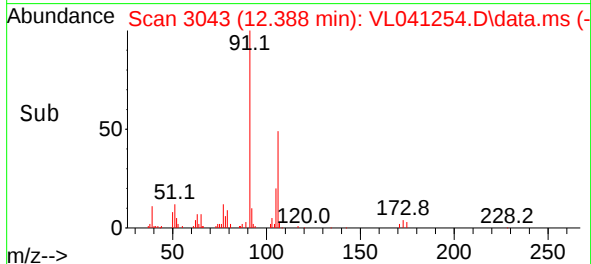
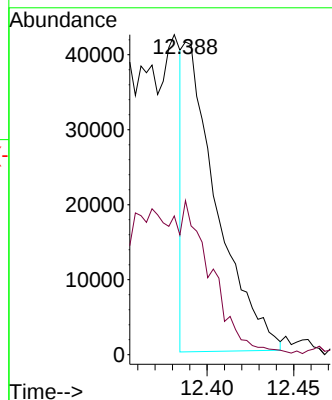
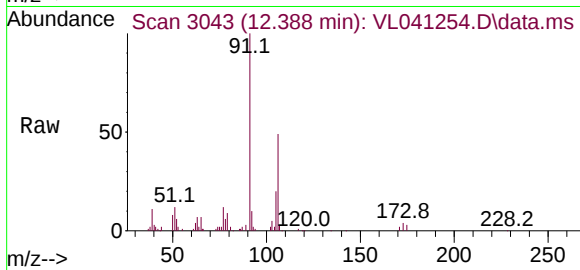
ClientSampleId :

Tgt Ion: 91 Resp: 55491

Ion Ratio Lower Upper

91 100

106 135.3 35.7 53.5#



#60

o-Xylene

Concen: 0.191 ppbv

RT: 13.066 min Scan# 3254

Delta R.T. -0.003 min

Lab File: VL041254.D

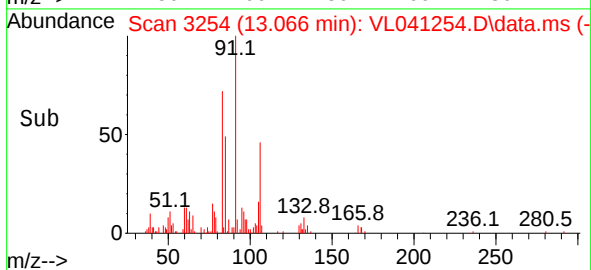
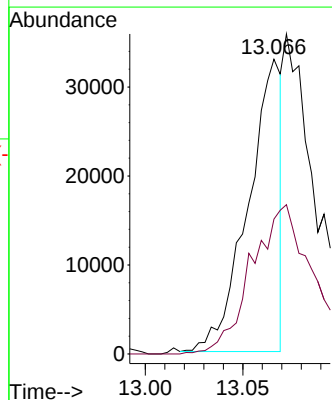
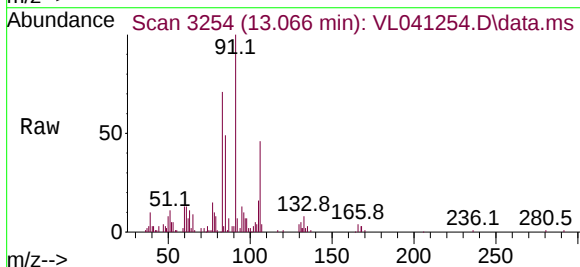
Acq: 9 May 2024 12:07

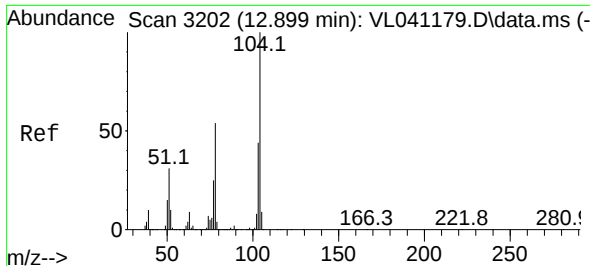
Tgt Ion: 91 Resp: 38938

Ion Ratio Lower Upper

91 100

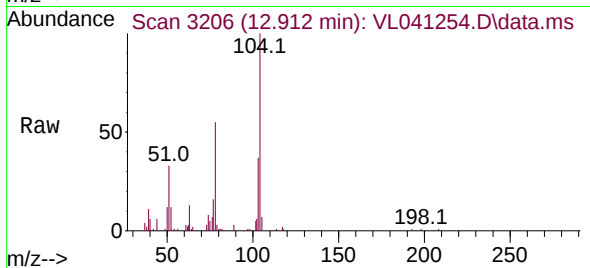
106 0.0 22.4 67.3#



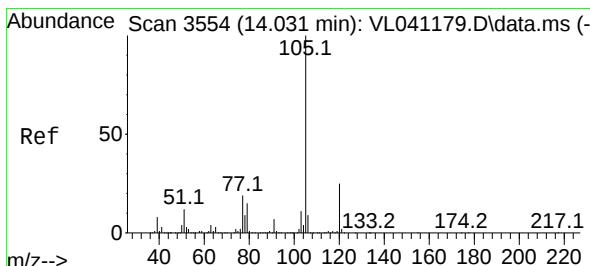
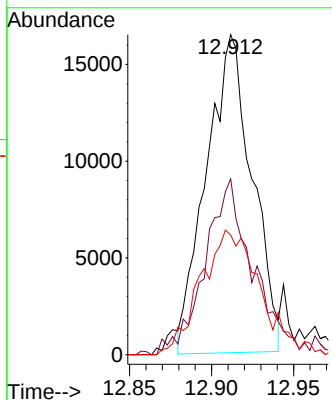
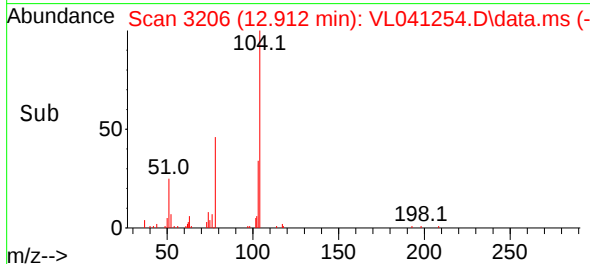


#61
Styrene
Concen: 0.297 ppbv
RT: 12.912 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

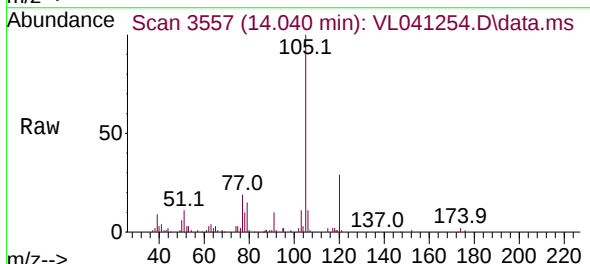
Instrument :
MSVOA_L
ClientSampleId :



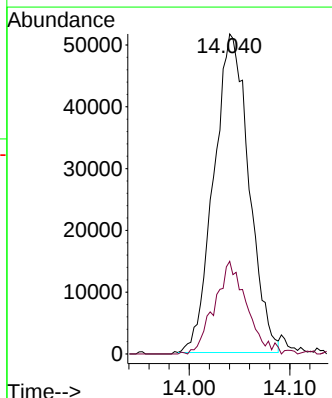
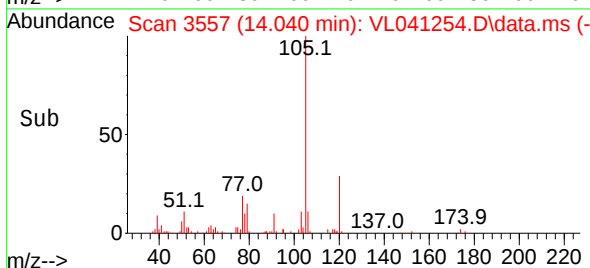
Tgt Ion:104 Resp: 32053
Ion Ratio Lower Upper
104 100
78 60.4 42.6 63.8
103 51.3 38.4 57.6

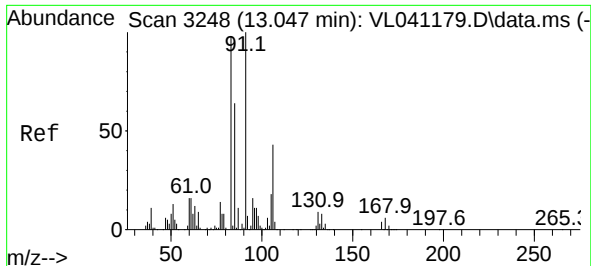


#62
Isopropylbenzene
Concen: 0.409 ppbv
RT: 14.040 min Scan# 3557
Delta R.T. -0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07



Tgt Ion:105 Resp: 124979
Ion Ratio Lower Upper
105 100
120 26.6 20.2 30.2

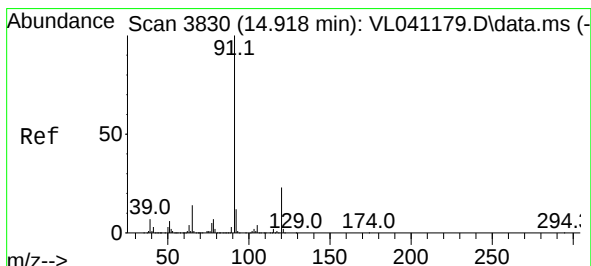
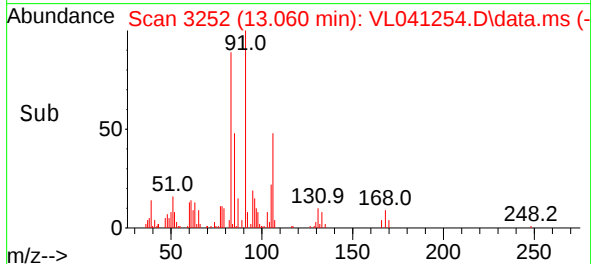
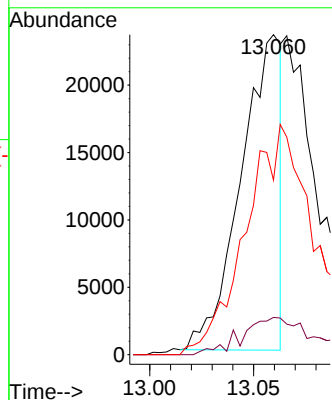
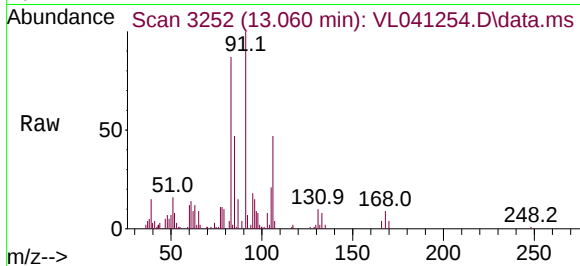




#63
1,1,2,2-Tetrachloroethane
Concen: 0.227 ppbv
RT: 13.060 min Scan# 31577
Delta R.T. -0.000 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

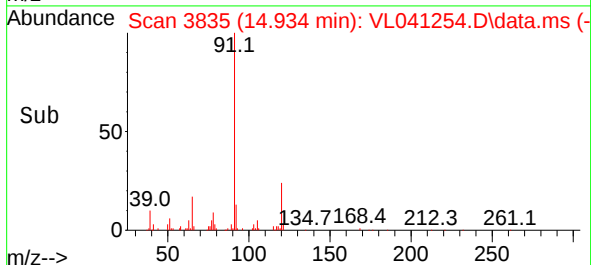
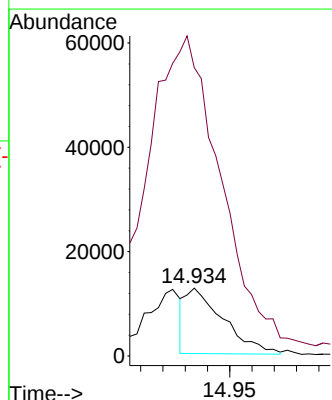
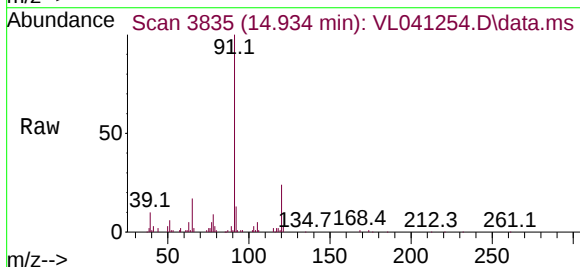
Instrument :
MSVOA_L
ClientSampleId :

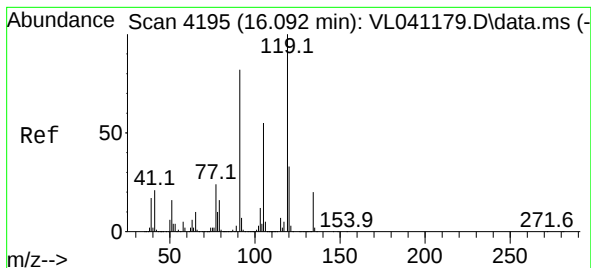
Tgt Ion: 83 Resp: 31577
Ion Ratio Lower Upper
83 100
131 22.3 4.5 13.5#
85 0.0 32.7 98.1#



#64
n-propylbenzene
Concen: 0.194 ppbv
RT: 14.934 min Scan# 3835
Delta R.T. 0.003 min
Lab File: VL041254.D
Acq: 9 May 2024 12:07

Tgt Ion:120 Resp: 14813
Ion Ratio Lower Upper
120 100
91 1046.2 384.8 577.2#





#65

tert-Butylbenzene

Concen: 0.216 ppbv

RT: 16.098 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

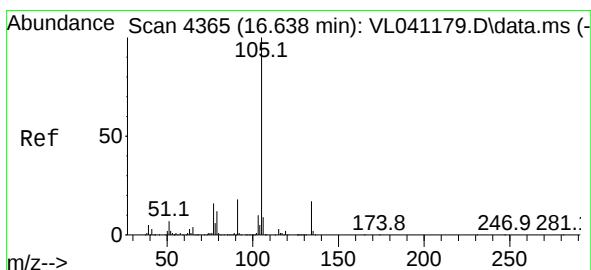
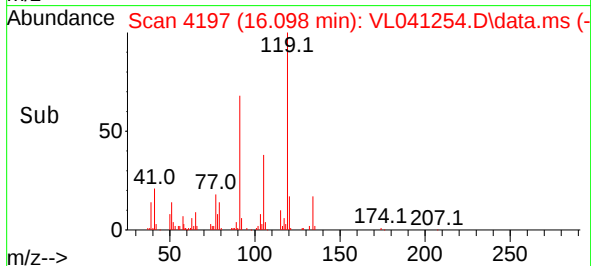
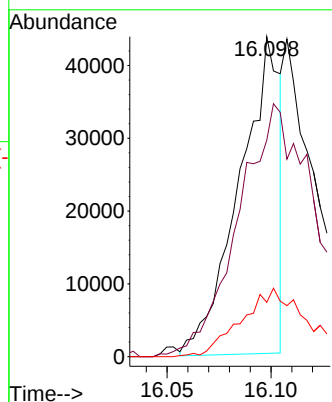
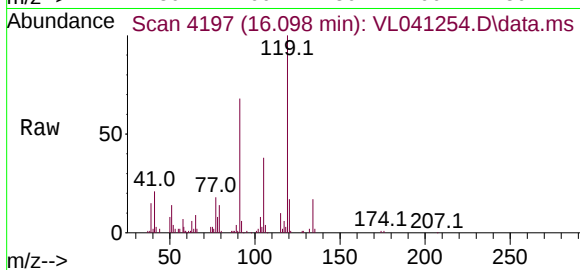
Tgt Ion:119 Resp: 59229

Ion Ratio Lower Upper

119 100

91 160.3 67.0 100.4#

134 37.0 15.2 22.8#



#67

sec-Butylbenzene

Concen: 0.391 ppbv

RT: 16.651 min Scan# 4369

Delta R.T. 0.003 min

Lab File: VL041254.D

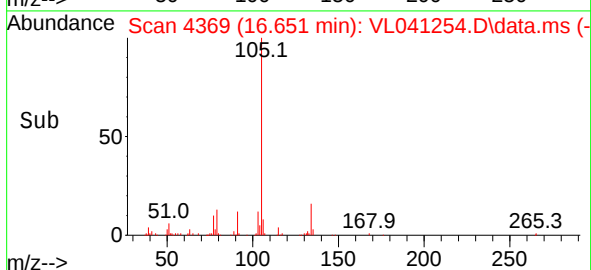
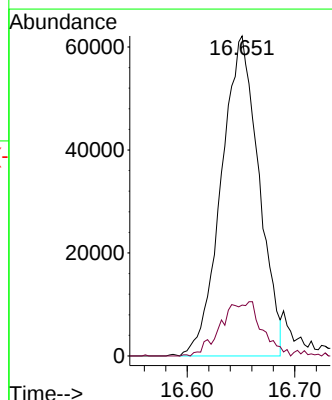
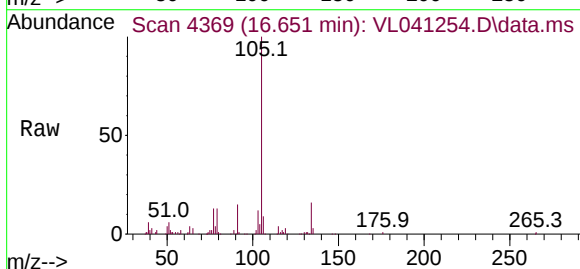
Acq: 9 May 2024 12:07

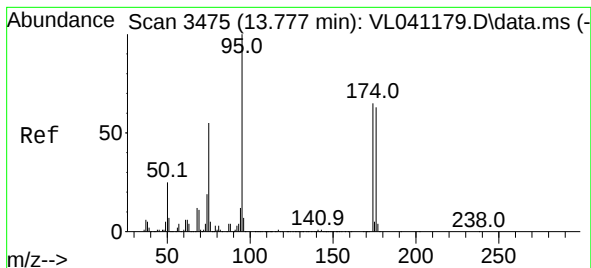
Tgt Ion:105 Resp: 150593

Ion Ratio Lower Upper

105 100

134 19.2 13.8 20.8





#68

1-Bromo-4-Fluorobenzene

Concen: 10.137 ppbv

RT: 13.789 min Scan# 3475

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

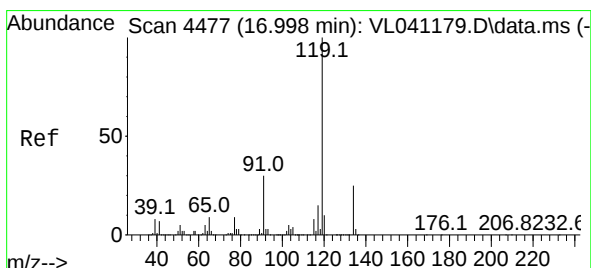
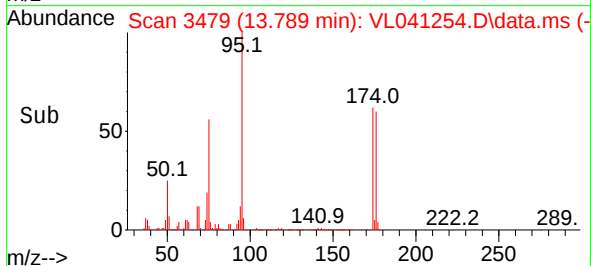
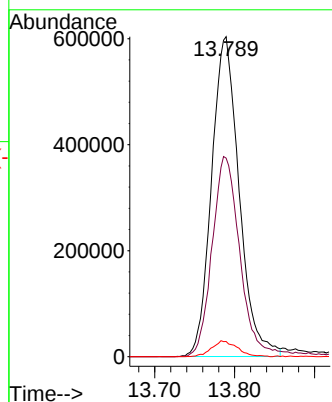
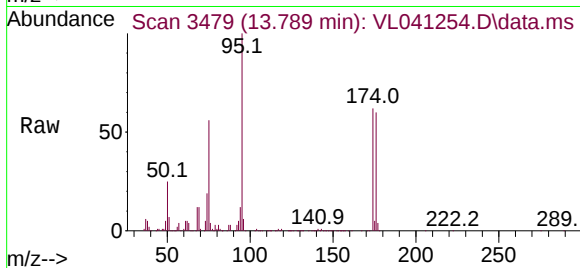
Tgt Ion: 95 Resp: 1447270

Ion Ratio Lower Upper

95 100

174 65.0 53.6 80.4

175 4.7 4.2 6.4



#69

p-Isopropyltoluene

Concen: 0.255 ppbv

RT: 17.008 min Scan# 4480

Delta R.T. -0.000 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

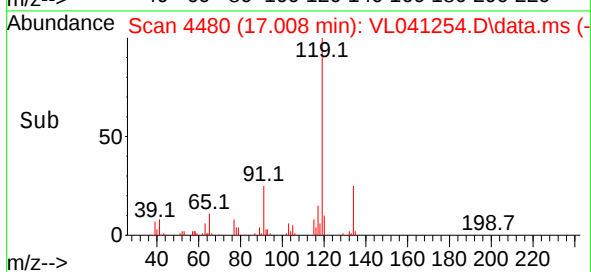
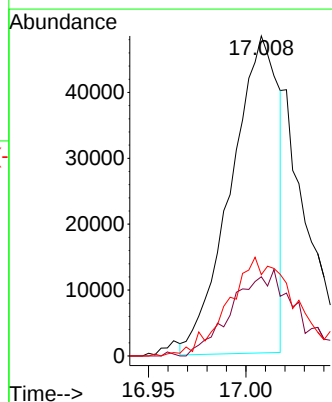
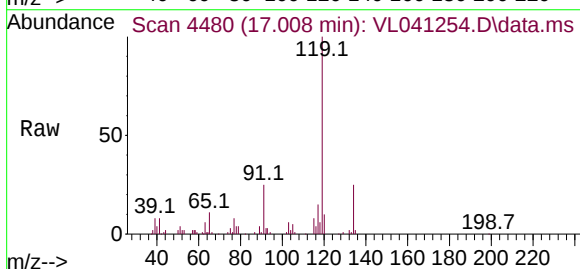
Tgt Ion: 119 Resp: 81005

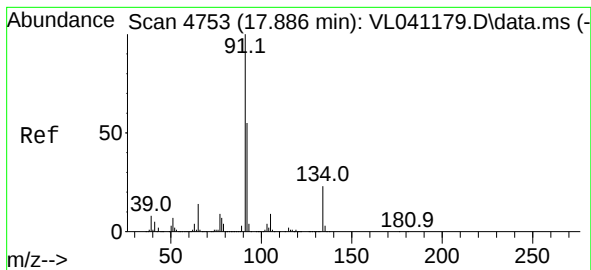
Ion Ratio Lower Upper

119 100

134 0.0 20.1 30.1#

91 47.6 24.2 36.2#





#70

n-Butylbenzene

Concen: 0.361 ppbv

RT: 17.902 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

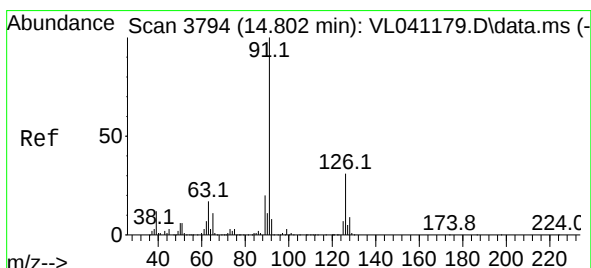
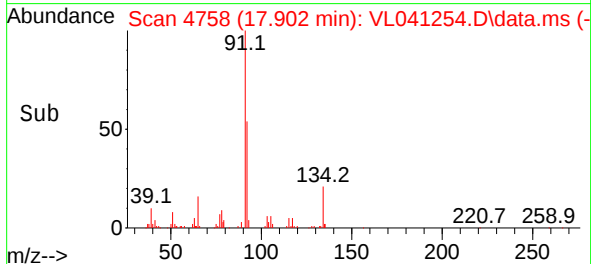
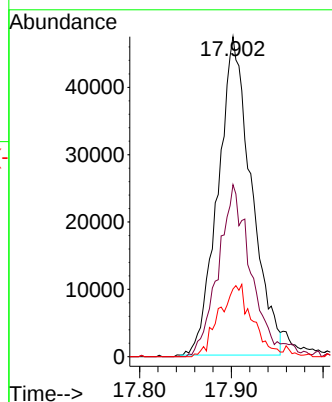
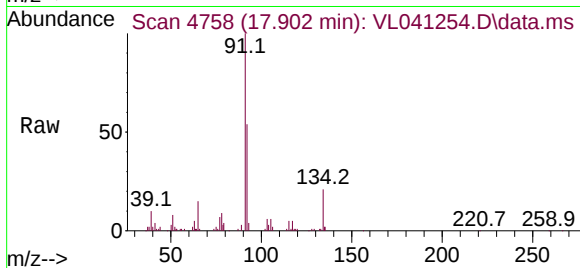
Tgt Ion: 91 Resp: 119642

Ion Ratio Lower Upper

91 100

92 54.1 43.3 64.9

134 23.5 17.8 26.8



#71

2-Chlorotoluene

Concen: 0.205 ppbv

RT: 14.809 min Scan# 3796

Delta R.T. -0.003 min

Lab File: VL041254.D

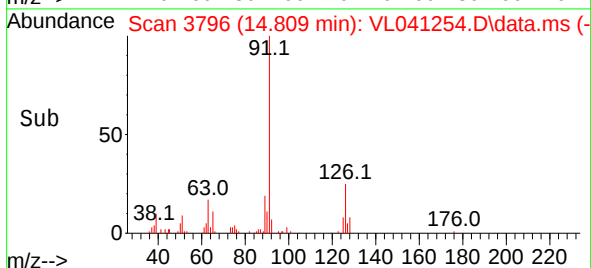
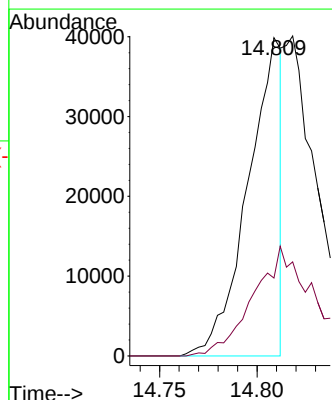
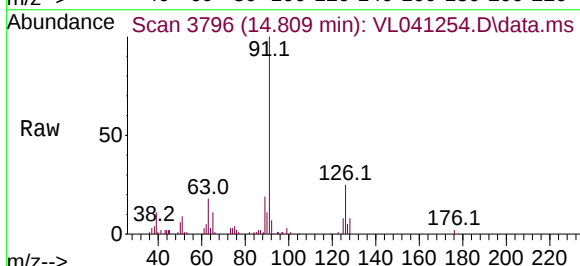
Acq: 9 May 2024 12:07

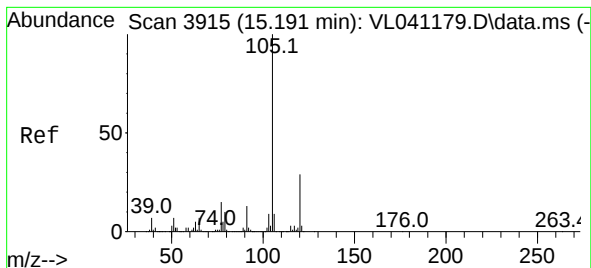
Tgt Ion: 91 Resp: 47740

Ion Ratio Lower Upper

91 100

126 62.2 12.2 48.8#





#72

4-Ethyltoluene

Concen: 0.226 ppbv

RT: 15.211 min Scan# 3921

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 52342

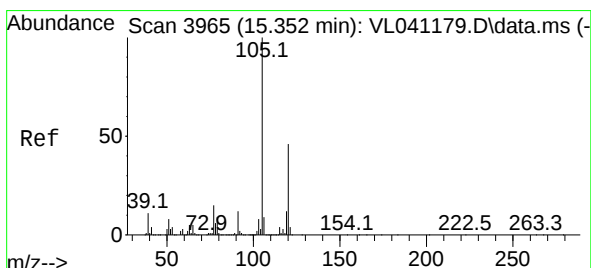
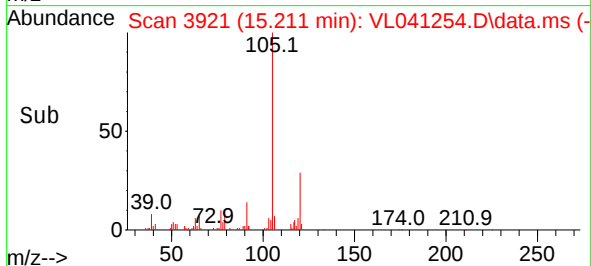
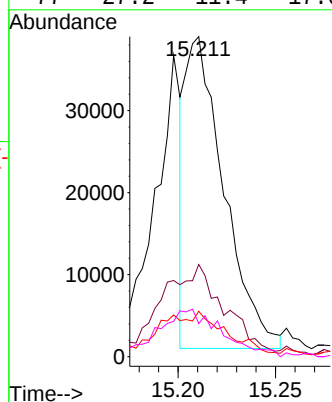
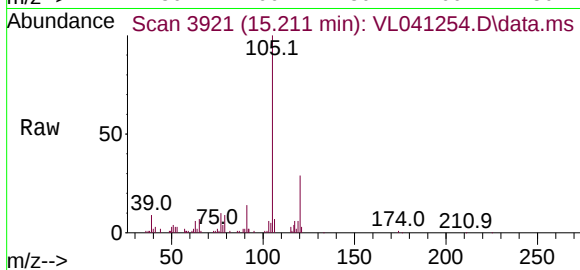
Ion Ratio Lower Upper

105 100

120 52.8 24.7 37.1#

91 26.4 10.3 15.5#

77 27.2 11.4 17.0#



#73

1,3,5-Trimethylbenzene

Concen: 0.356 ppbv

RT: 15.365 min Scan# 3969

Delta R.T. -0.000 min

Lab File: VL041254.D

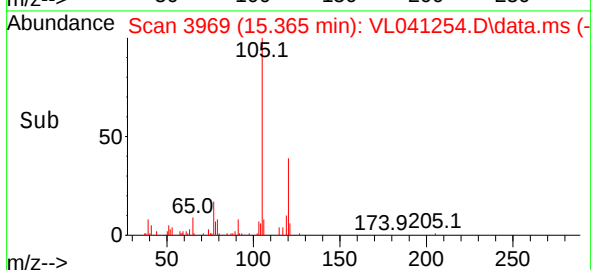
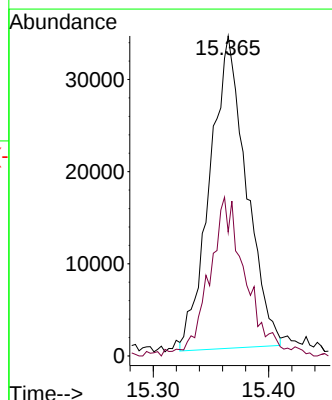
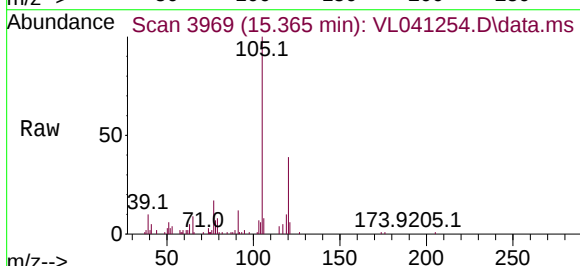
Acq: 9 May 2024 12:07

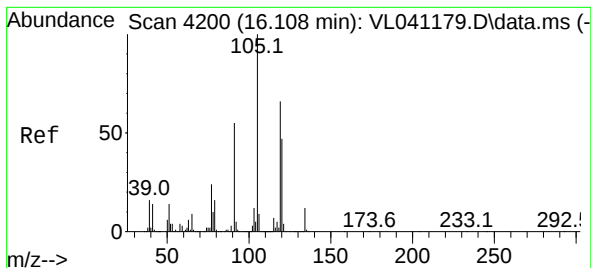
Tgt Ion:105 Resp: 74584

Ion Ratio Lower Upper

105 100

120 38.3 37.0 55.4





#74

1,2,4-Trimethylbenzene

Concen: 0.373 ppbv

RT: 16.120 min Scan# 41

Delta R.T. -0.000 min

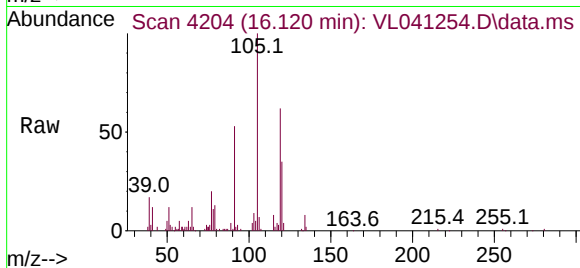
Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 85365

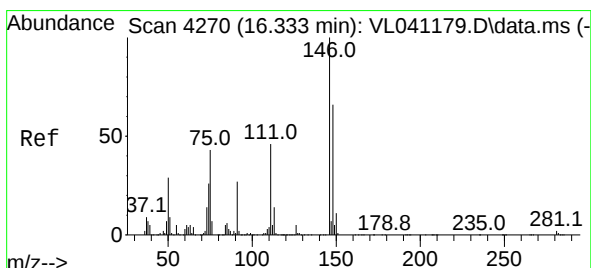
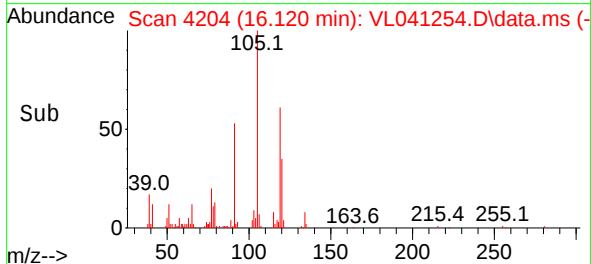
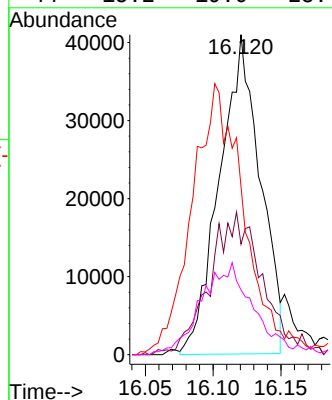
Ion Ratio Lower Upper

105 100

120 30.0 37.8 56.6#

91 45.6 44.3 66.5

77 15.2 19.0 28.4#



#75

1,3-Dichlorobenzene

Concen: 0.175 ppbv

RT: 16.339 min Scan# 4272

Delta R.T. -0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

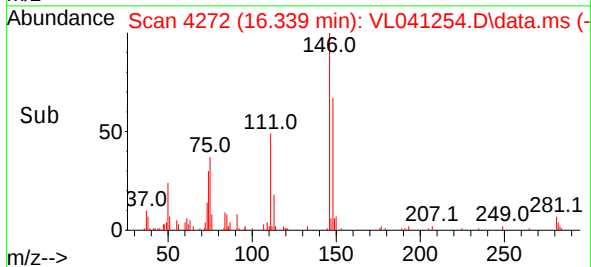
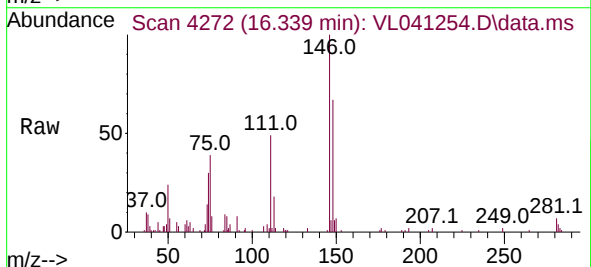
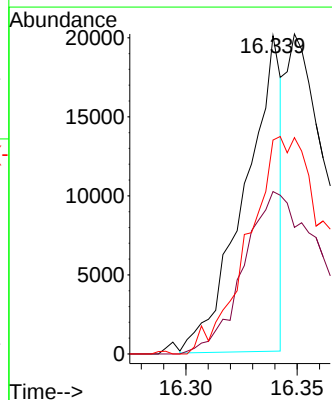
Tgt Ion:146 Resp: 22881

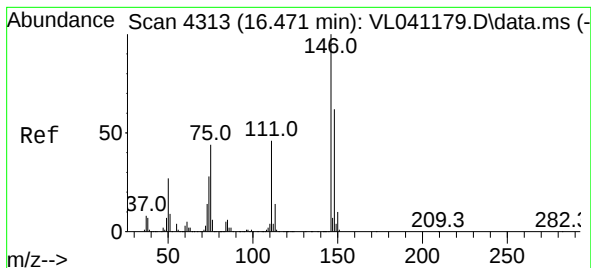
Ion Ratio Lower Upper

146 100

111 122.1 23.7 71.1#

148 160.2 32.5 97.4#





#76

1,4-Dichlorobenzene

Concen: 0.283 ppbv

RT: 16.487 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

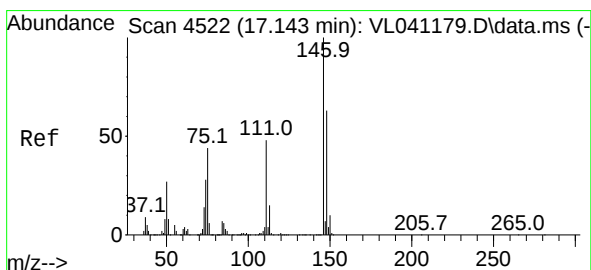
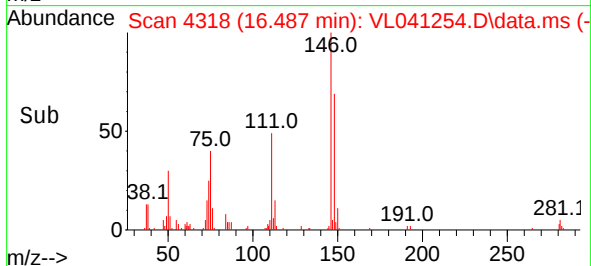
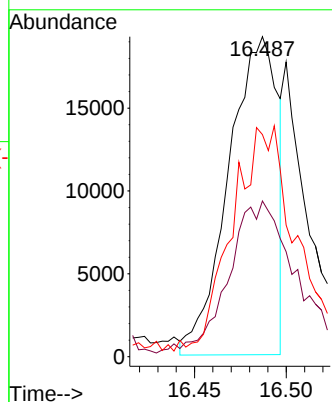
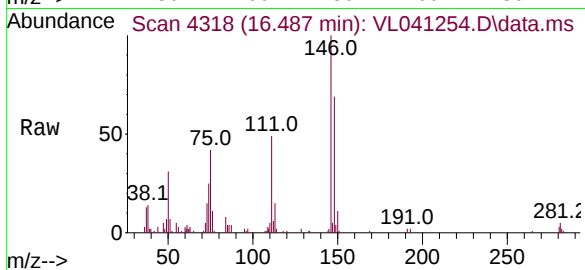
Tgt Ion:146 Resp: 35637

Ion Ratio Lower Upper

146 100

111 70.7 23.3 69.8#

148 0.0 32.6 97.7#



#77

1,2-Dichlorobenzene

Concen: 0.409 ppbv

RT: 17.153 min Scan# 4525

Delta R.T. -0.006 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

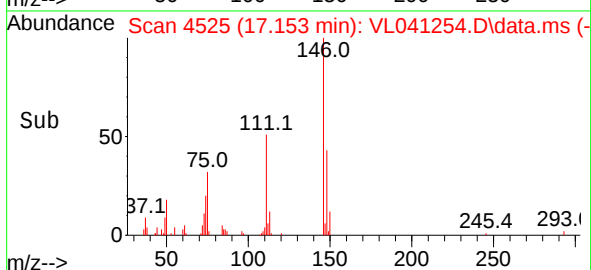
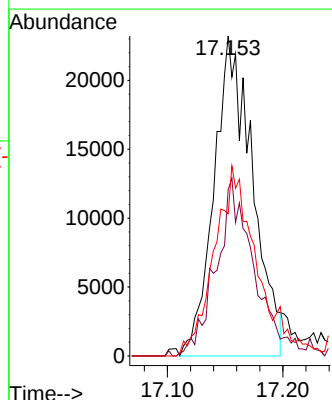
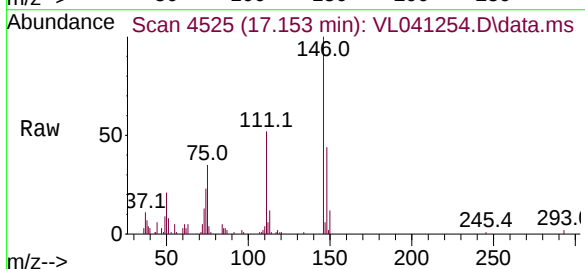
Tgt Ion:146 Resp: 53652

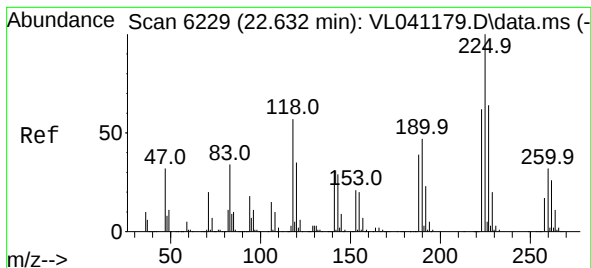
Ion Ratio Lower Upper

146 100

111 55.6 24.5 73.5

148 67.6 32.6 98.0





#78

Hexachloro-1,3-Butadiene

Concen: 0.256 ppbv

RT: 22.651 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :

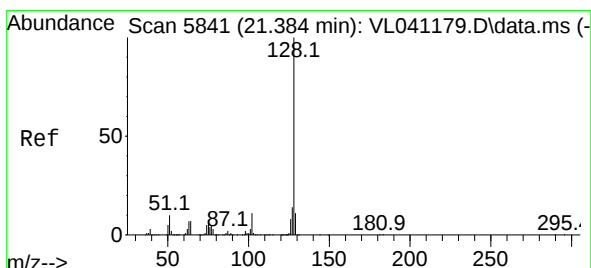
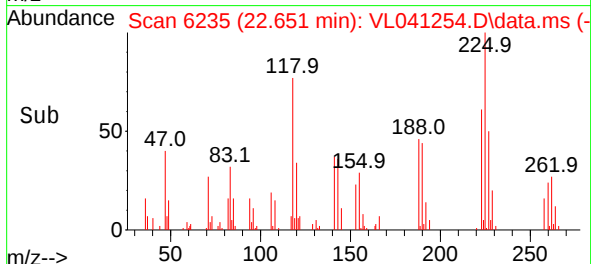
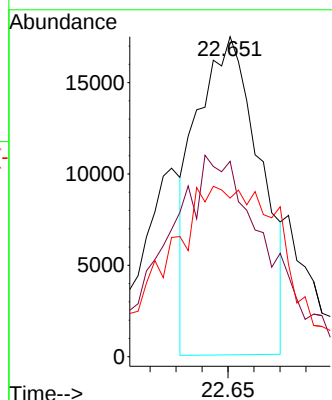
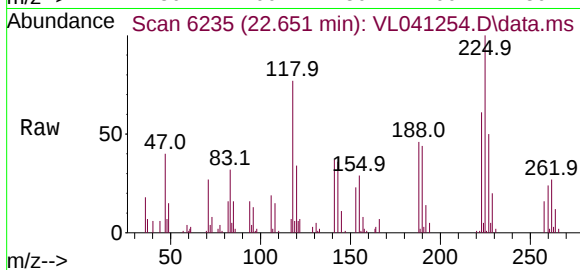
Tgt Ion:225 Resp: 29862

Ion Ratio Lower Upper

225 100

223 107.9 50.9 76.3#

227 102.9 52.0 78.0#



#79

Naphthalene

Concen: 0.146 ppbv

RT: 21.403 min Scan# 5847

Delta R.T. 0.003 min

Lab File: VL041254.D

Acq: 9 May 2024 12:07

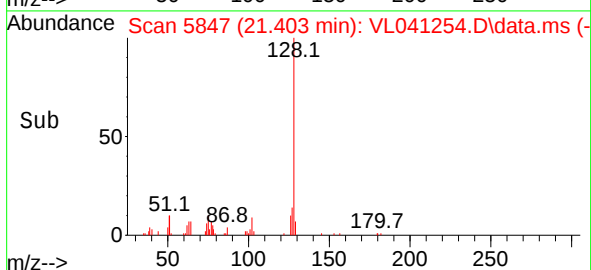
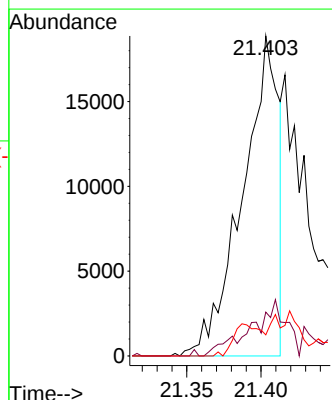
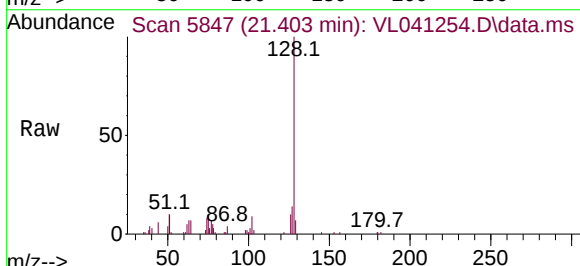
Tgt Ion:128 Resp: 31681

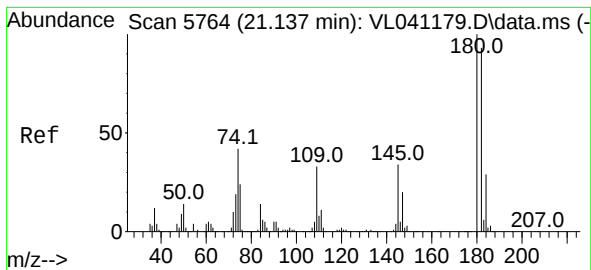
Ion Ratio Lower Upper

128 100

127 13.7 10.8 16.2

129 6.6 8.9 13.3#





#81

1,2,4-Trichlorobenzene

Concen: 0.127 ppbv

RT: 21.159 min Scan# 51

Delta R.T. 0.006 min

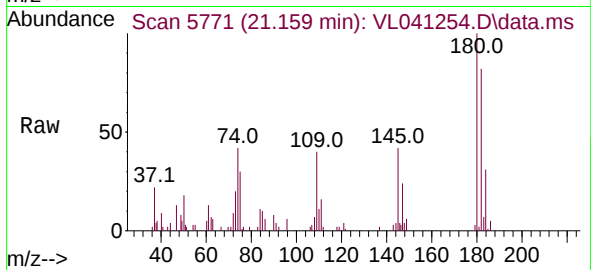
Lab File: VL041254.D

Acq: 9 May 2024 12:07

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:180 Resp: 14575

Ion Ratio Lower Upper

180 100

182 0.0 77.2 115.8#

184 0.0 24.6 36.8#

