

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122023\
 Data File : VL040916.D
 Acq On : 20 Dec 2023 12:25
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 21 07:09:16 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 21 07:06:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.179	49	1257402	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	3234029	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2908234	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	2129885	9.943	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.729	85	256549	1.071	ppbv	96
3) Chlorodifluoromethane	2.678	51	204234	1.079	ppbv	100
4) Chloromethane	2.816	50	76891	1.102	ppbv #	88
5) Vinyl Chloride	2.922	62	72990	1.124	ppbv	96
6) Bromomethane	3.118	94	29429	0.987	ppbv	98
7) Chloroethane	3.198	64	23607	0.983	ppbv #	85
8) Dichlorotetrafluoroethane	2.858	85	187024	1.084	ppbv	96
9) Propene	2.697	41	65089	1.043	ppbv	94
10) Heptane	7.558	43	161778	1.042	ppbv	96
11) Trichlorofluoromethane	3.559	101	199197	1.064	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.057	101	144550	0.994	ppbv	97
13) Ethanol	3.256	45	2585	0.185	ppbv #	37
14) Bromoethene	3.362	108	56119	1.053	ppbv	94
15) Acetone	3.472	43	173272	1.149	ppbv	97
16) 1,3-Butadiene	2.983	39	72405	1.115	ppbv	95
17) tert-Butyl alcohol	3.880	59	116607	1.045	ppbv	95
18) 1,1-Dichloroethene	3.870	96	63177	1.052	ppbv	93
19) Isopropyl Alcohol	3.581	45	41163	0.516	ppbv #	82
20) Methylene Chloride	3.928	84	54843	1.010	ppbv	88
21) Allyl Chloride	3.989	41	85976	0.965	ppbv	90
22) trans-1,2-Dichloroethene	4.436	96	75347	1.089	ppbv	95
23) Vinyl Acetate	4.616	43	163950	0.962	ppbv #	98
24) 1,1-Dichloroethane	4.552	63	158705	1.066	ppbv	99
25) Ethyl Acetate	5.195	43	274232	1.049	ppbv	97
26) Hexane	5.198	57	123334	1.057	ppbv	97
27) Carbon Disulfide	4.118	76	150911	0.963	ppbv	97
28) Methyl tert-Butyl Ether	4.581	73	113076	1.052	ppbv	99
29) Chloroform	5.256	83	203699	1.042	ppbv	91
30) Cyclohexane	6.584	84	103376	1.071	ppbv	92
31) cis-1,2-Dichloroethene	5.063	61	123189	1.036	ppbv	95
32) 1,1,1-Trichloroethane	5.986	97	201528	1.082	ppbv	99
34) 2-Butanone	4.784	43	178110	1.041	ppbv	99
35) Carbon Tetrachloride	6.475	117	211167	1.039	ppbv	98
36) Benzene	6.349	78	264404	1.046	ppbv	94
37) 1,2-Dichloroethane	5.787	62	152110	1.004	ppbv	100
38) Trichloroethene	7.269	130	99297	1.021	ppbv	93
39) 1,2-Dichloropropane	7.054	63	100597	1.010	ppbv	94
40) 1,4-Dioxane	7.250	88	179	0.004	ppbv #	1
41) Tetrahydrofuran	5.558	42	94684	0.912	ppbv	93
42) Bromodichloromethane	7.224	83	221877	1.016	ppbv	98
43) Methyl Methacrylate	7.452	69	49259	0.500	ppbv #	1
44) 2,2,4-Trimethylpentane	7.301	57	456135	1.062	ppbv	99
45) t-1,3-Dichloropropene	8.687	75	37881	0.518	ppbv	96

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 21 07:06:17 2023
 Response via : Initial Calibration

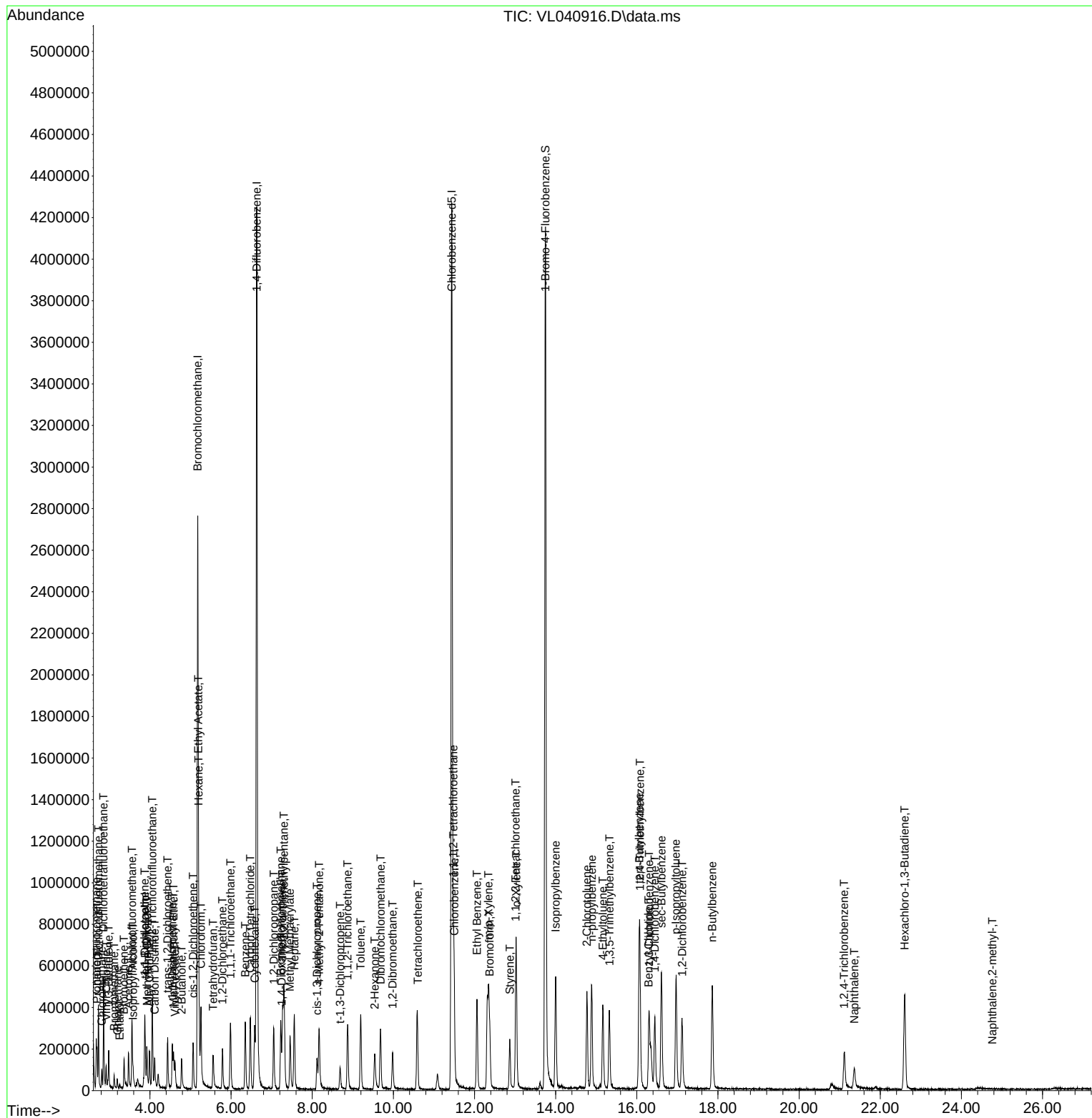
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.118	75	89037	0.978	ppbv	98
47) 1,1,2-Trichloroethane	8.873	97	108091	1.014	ppbv	91
48) Dibromochloromethane	9.684	129	178669	0.993	ppbv	99
49) Bromoform	12.375	173	133889	0.961	ppbv	98
50) 4-Methyl-2-Pentanone	8.172	43	249241	0.960	ppbv	98
51) 2-Hexanone	9.539	43	100153	0.536	ppbv #	30
52) Tetrachloroethene	10.600	164	20960	0.246	ppbv	98
53) Toluene	9.195	91	291871	1.033	ppbv	99
54) 1,2-Dibromoethane	9.979	107	144097	0.990	ppbv	89
56) 1,1,1,2-Tetrachloroethane	11.481	131	134808	1.060	ppbv #	1
57) Chlorobenzene	11.504	112	88571	0.413	ppbv	93
58) Ethyl Benzene	12.060	91	403837	1.081	ppbv	98
59) m/p-Xylene	12.343	91	383117	1.206	ppbv #	100
60) o-Xylene	13.031	91	324412	1.084	ppbv	99
61) Styrene	12.870	104	141707	0.992	ppbv	99
62) Isopropylbenzene	14.002	105	477758	1.076	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.015	83	129252	0.601	ppbv #	25
64) n-propylbenzene	14.889	120	58738	0.524	ppbv #	1
65) tert-Butylbenzene	16.060	119	413081	1.077	ppbv	97
66) Benzyl Chloride	16.288	91	6432	0.248	ppbv #	69
67) sec-Butylbenzene	16.606	105	598744	1.092	ppbv	97
69) p-Isopropyltoluene	16.963	119	217174	0.510	ppbv #	47
70) n-Butylbenzene	17.857	91	460975	1.042	ppbv	98
71) 2-Chlorotoluene	14.770	91	366417	1.072	ppbv	98
72) 4-Ethyltoluene	15.163	105	337313	1.027	ppbv	96
73) 1,3,5-Trimethylbenzene	15.323	105	288738	1.018	ppbv	95
74) 1,2,4-Trimethylbenzene	16.076	105	325070	1.030	ppbv #	90
75) 1,3-Dichlorobenzene	16.301	146	182110	1.007	ppbv	95
76) 1,4-Dichlorobenzene	16.445	146	99944	0.566	ppbv #	37
77) 1,2-Dichlorobenzene	17.117	146	171685	0.984	ppbv	91
78) Hexachloro-1,3-Butadiene	22.603	225	124187	1.147	ppbv	98
79) Naphthalene	21.362	128	132316	0.896	ppbv	99
80) Naphthalene,2-methyl-	24.760	142	725	0.028	ppbv	96
81) 1,2,4-Trichlorobenzene	21.108	180	32609	0.369	ppbv #	1

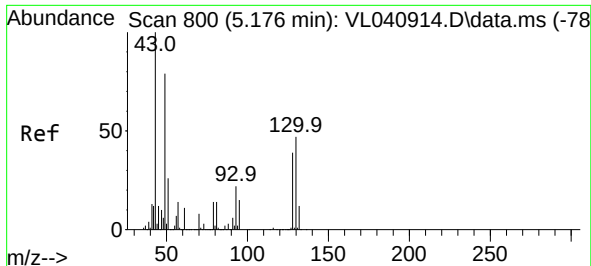
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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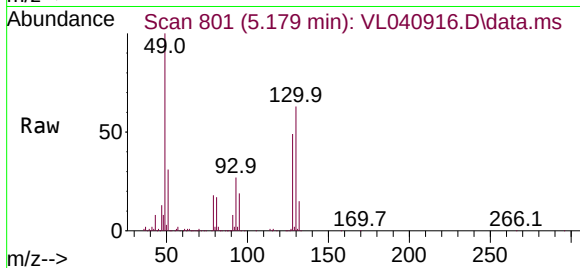
Quant Time: Dec 21 07:09:16 2023
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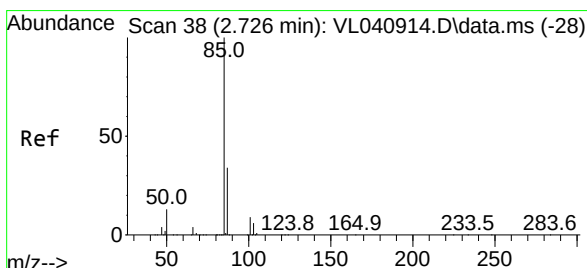
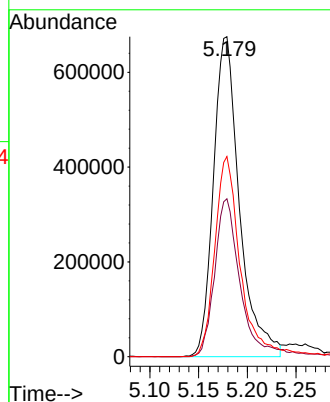
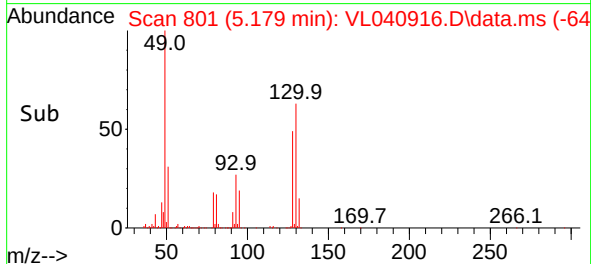
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.179 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

Instrument :
 MSVOA_L
 ClientSampleId :

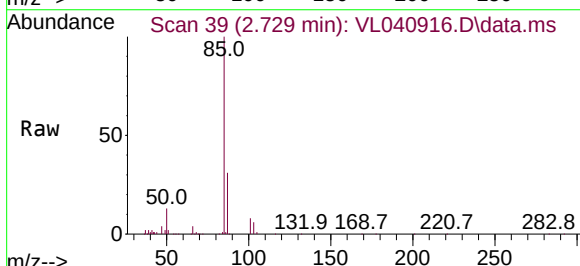


Tgt Ion: 49 Resp: 1257402

Ion	Ratio	Lower	Upper
49	100		
128	49.3	23.8	71.2
130	63.1	30.1	90.5

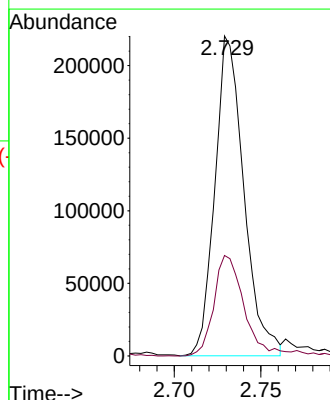
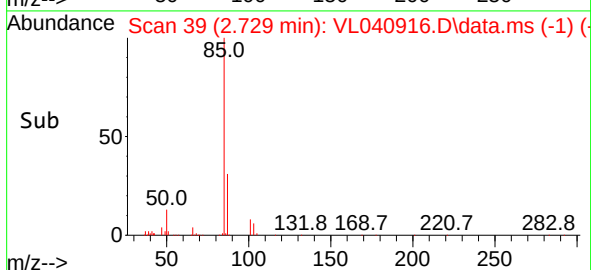


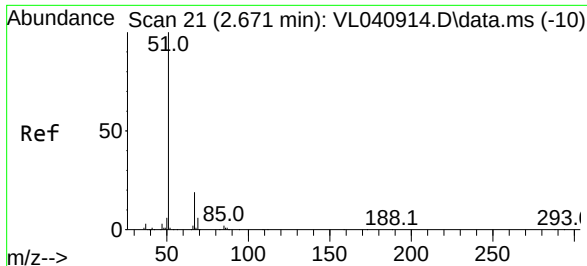
#2
 Dichlorodifluoromethane
 Concen: 1.071 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. 0.003 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25



Tgt Ion: 85 Resp: 256549

Ion	Ratio	Lower	Upper
85	100		
87	31.4	27.0	40.6

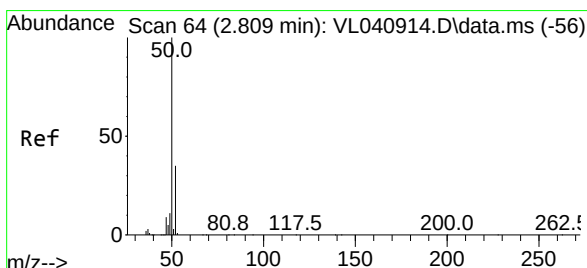
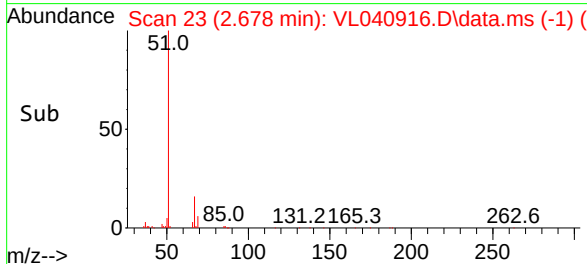
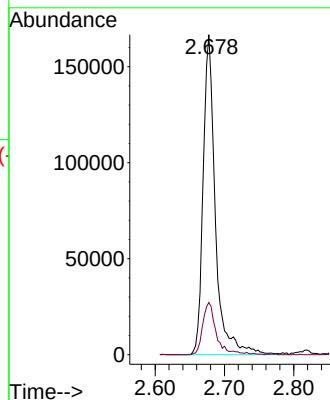
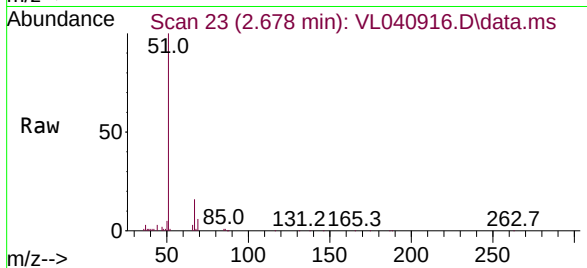




#3
Chlorodifluoromethane
Concen: 1.079 ppbv
RT: 2.678 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

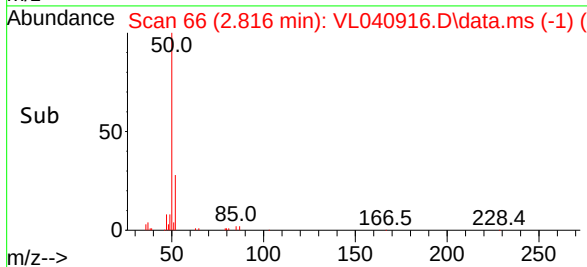
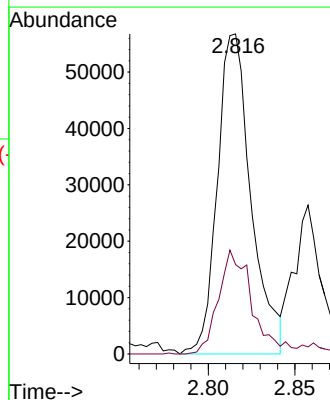
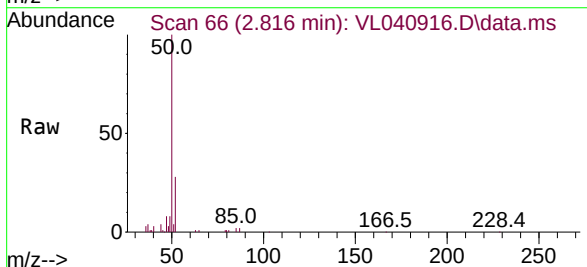
Instrument :
MSVOA_L
ClientSampleId :

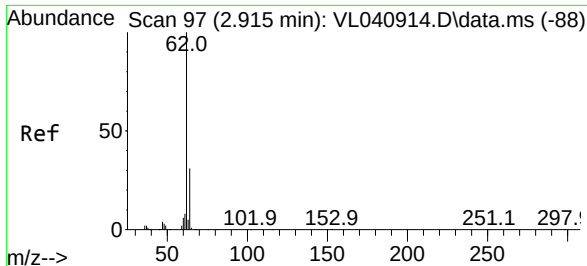
Tgt Ion: 51 Resp: 204234
Ion Ratio Lower Upper
51 100
67 18.4 14.7 22.1



#4
Chloromethane
Concen: 1.102 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.007 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 50 Resp: 76891
Ion Ratio Lower Upper
50 100
52 28.0 28.0 42.0#

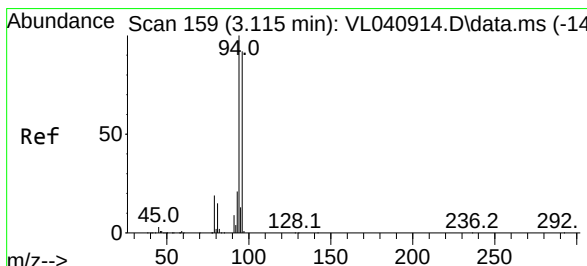
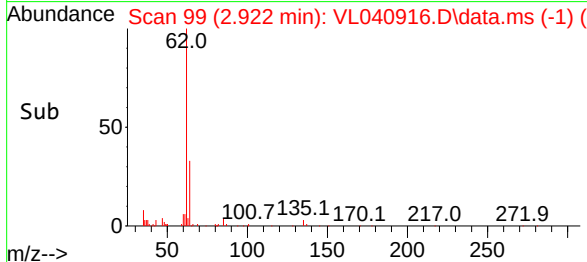
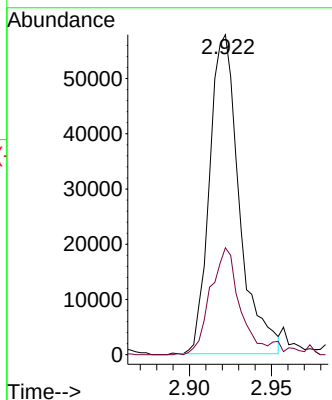
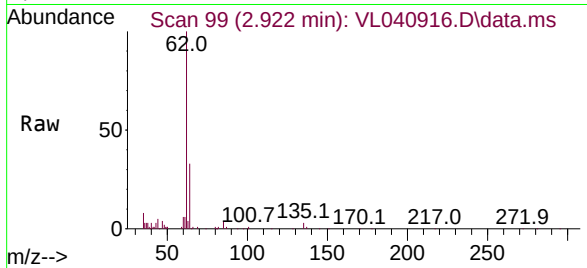




#5
 Vinyl Chloride
 Concen: 1.124 ppbv
 RT: 2.922 min Scan# 99
 Delta R.T. 0.007 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

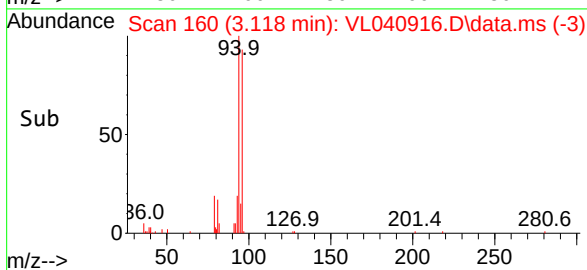
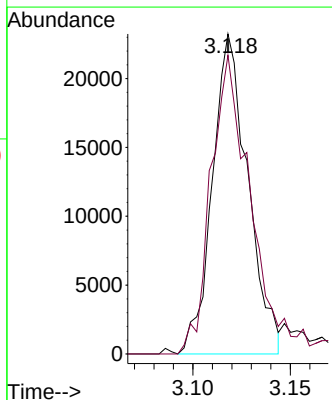
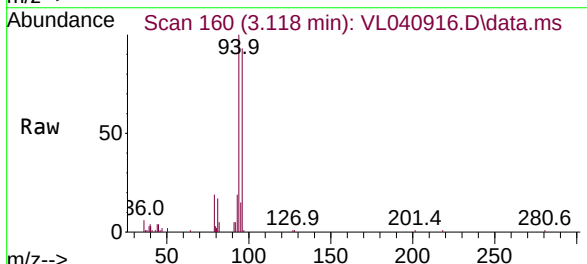
Instrument :
 MSVOA_1
 ClientSampleId :

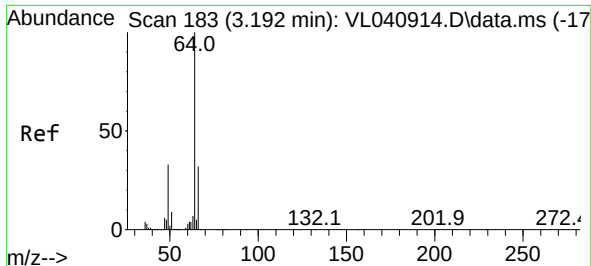
Tgt Ion: 62 Resp: 72990
 Ion Ratio Lower Upper
 62 100
 64 33.1 24.9 37.3



#6
 Bromomethane
 Concen: 0.987 ppbv
 RT: 3.118 min Scan# 160
 Delta R.T. 0.003 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

Tgt Ion: 94 Resp: 29429
 Ion Ratio Lower Upper
 94 100
 96 93.4 73.2 109.8

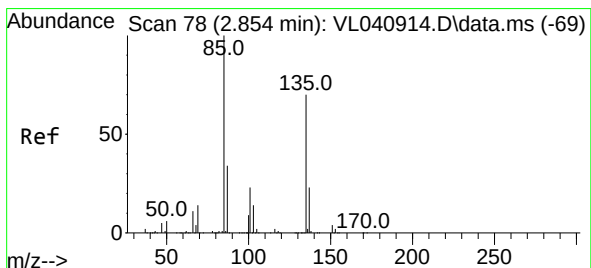
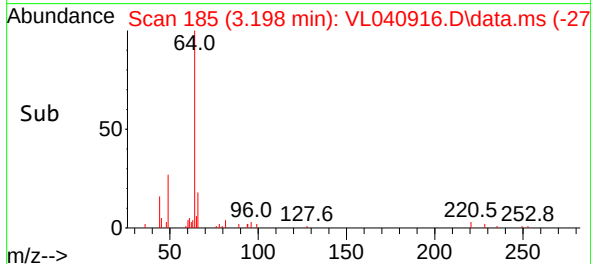
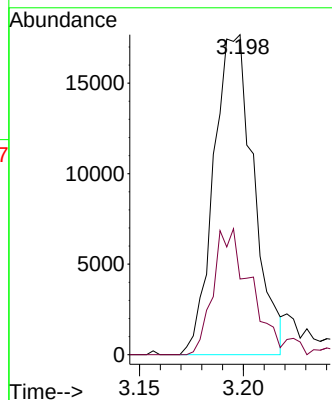
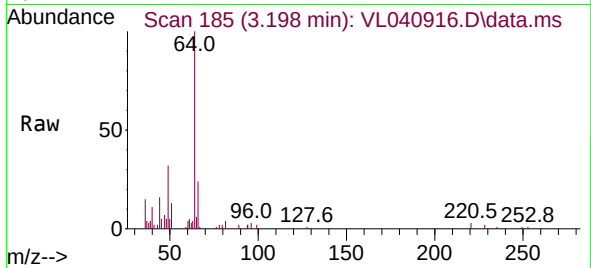




#7
Chloroethane
Concen: 0.983 ppbv
RT: 3.198 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

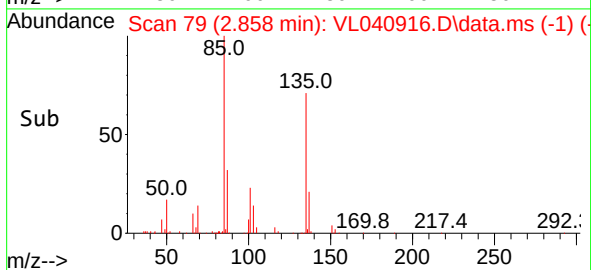
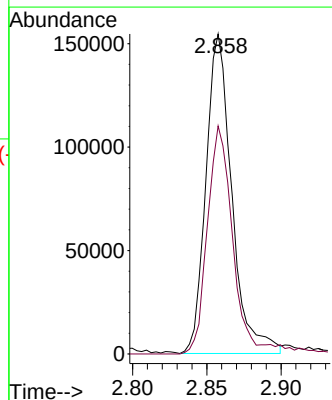
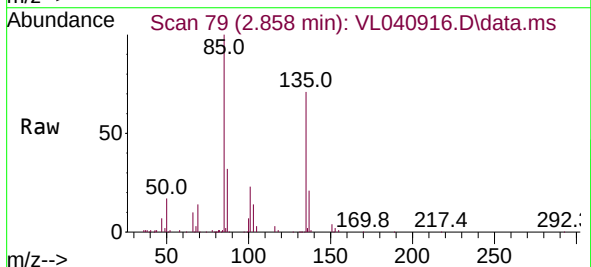
Instrument :
MSVOA_L
ClientSampleId :

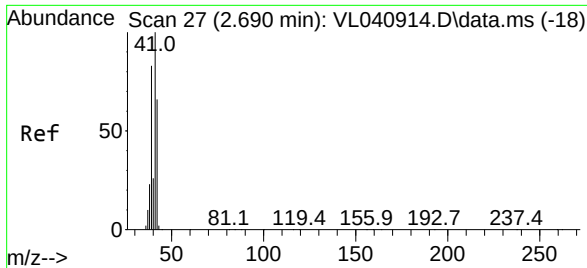
Tgt Ion: 64 Resp: 23607
Ion Ratio Lower Upper
64 100
66 23.7 25.7 38.5#



#8
Dichlorotetrafluoroethane
Concen: 1.084 ppbv
RT: 2.858 min Scan# 79
Delta R.T. 0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 85 Resp: 187024
Ion Ratio Lower Upper
85 100
135 72.7 55.8 83.8





#9

Propene

Concen: 1.043 ppbv

RT: 2.697 min Scan# 29

Delta R.T. 0.007 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

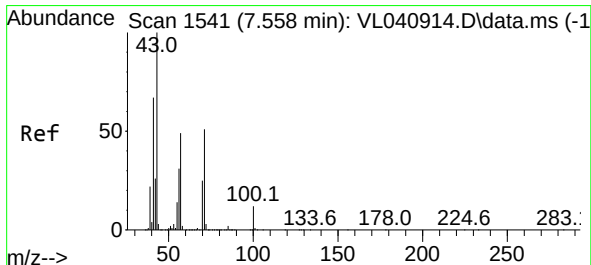
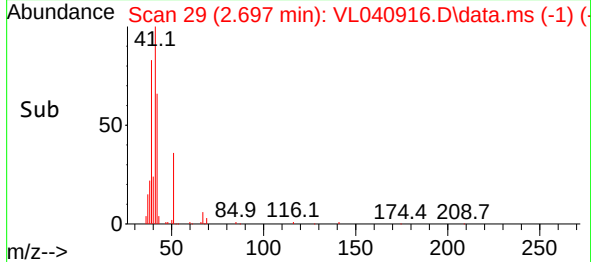
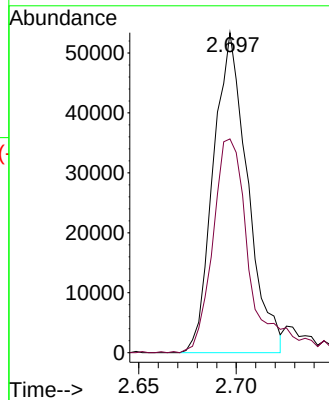
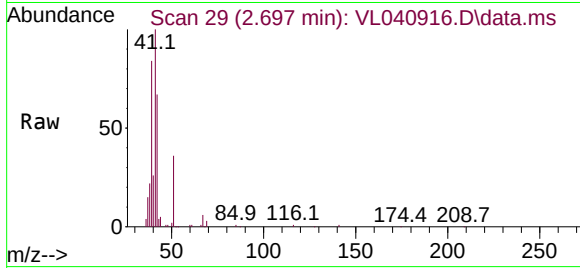
ClientSampleId :

Tgt Ion: 41 Resp: 65089

Ion Ratio Lower Upper

41 100

42 74.6 55.8 83.6



#10

Heptane

Concen: 1.042 ppbv

RT: 7.558 min Scan# 1541

Delta R.T. 0.000 min

Lab File: VL040916.D

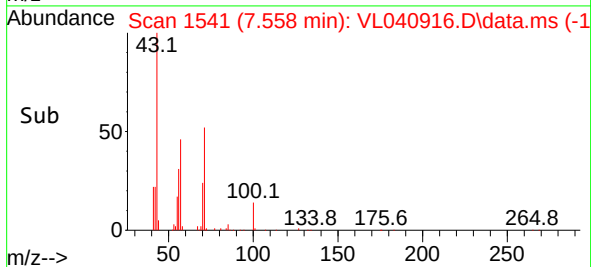
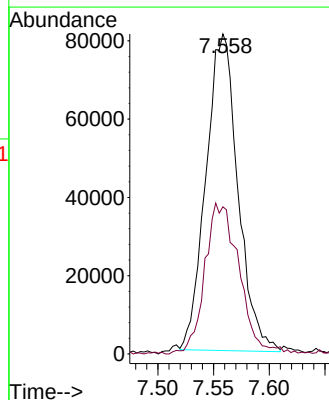
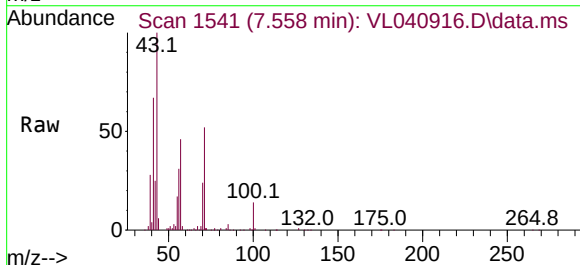
Acq: 20 Dec 2023 12:25

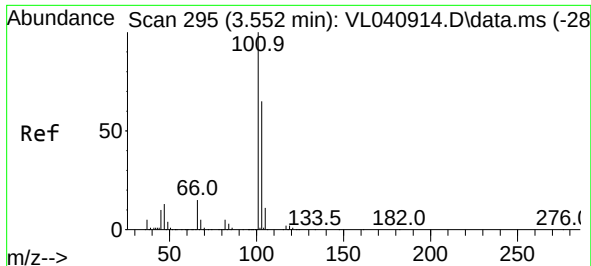
Tgt Ion: 43 Resp: 161778

Ion Ratio Lower Upper

43 100

57 51.9 39.3 58.9

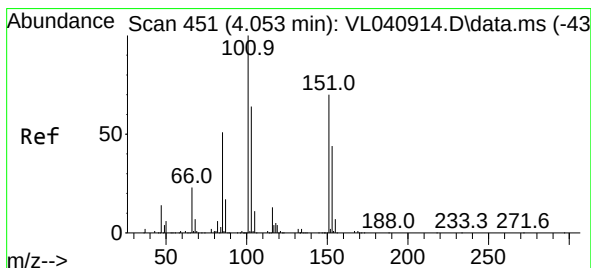
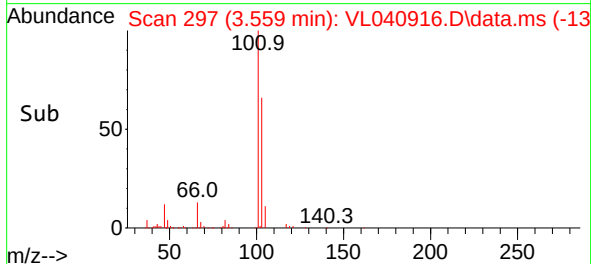
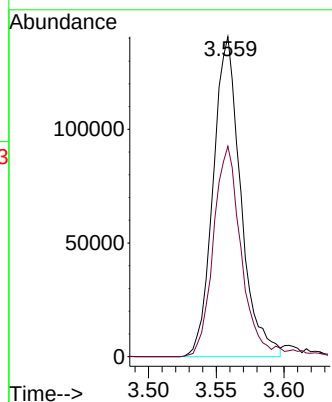
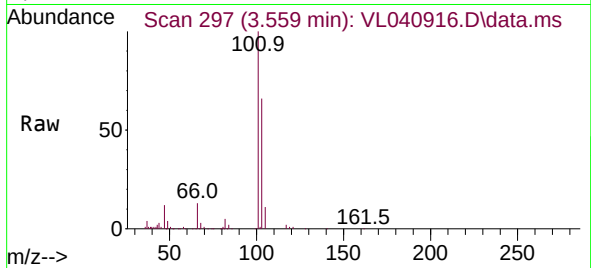




#11
 Trichlorofluoromethane
 Concen: 1.064 ppbv
 RT: 3.559 min Scan# 295
 Delta R.T. 0.007 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

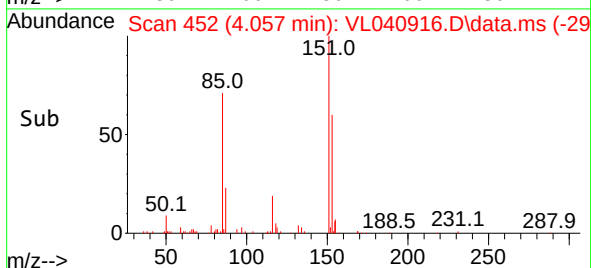
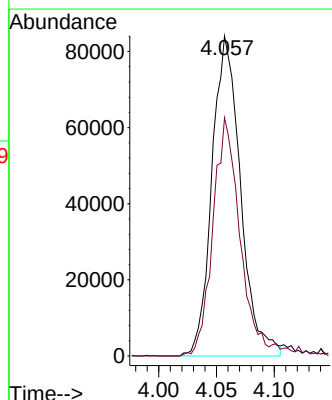
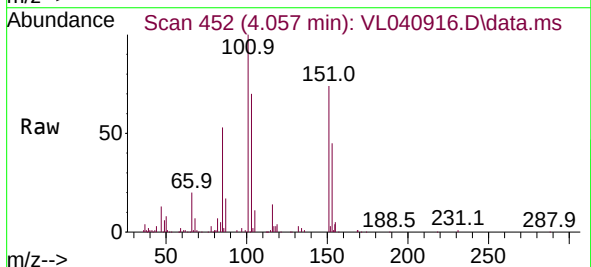
Instrument :
 MSVOA_L
 ClientSampleId :

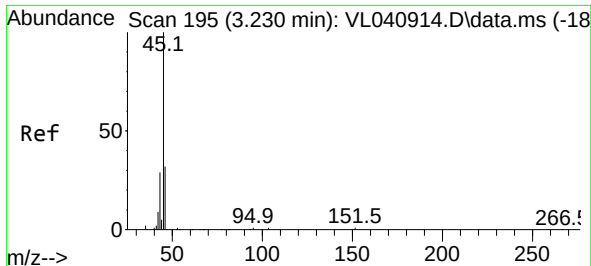
Tgt Ion:101 Resp: 199197
 Ion Ratio Lower Upper
 101 100
 103 65.8 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.994 ppbv
 RT: 4.057 min Scan# 452
 Delta R.T. 0.003 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

Tgt Ion:101 Resp: 144550
 Ion Ratio Lower Upper
 101 100
 151 72.3 55.8 83.8

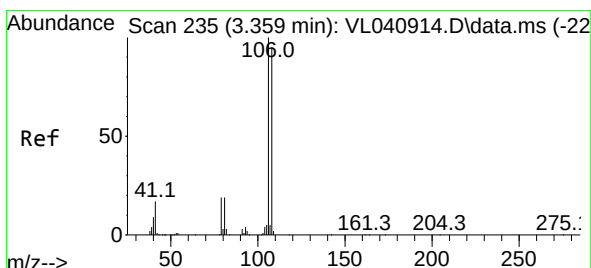
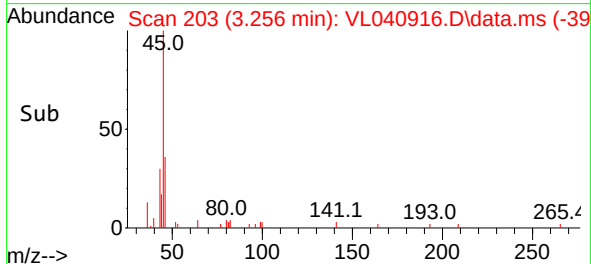
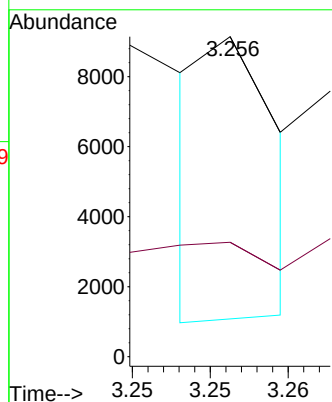
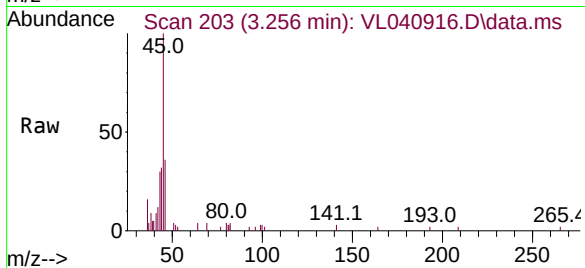




#13
Ethanol
Concen: 0.185 ppbv
RT: 3.256 min Scan# 20
Delta R.T. 0.026 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

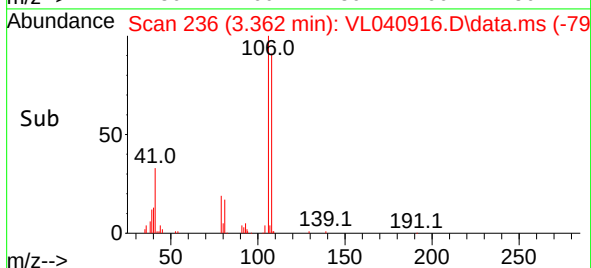
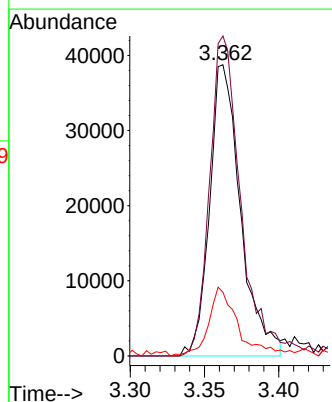
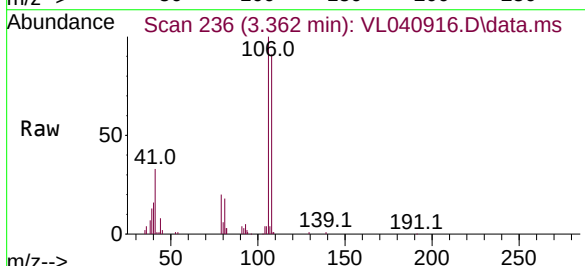
Instrument :
MSVOA_L
ClientSampleId :

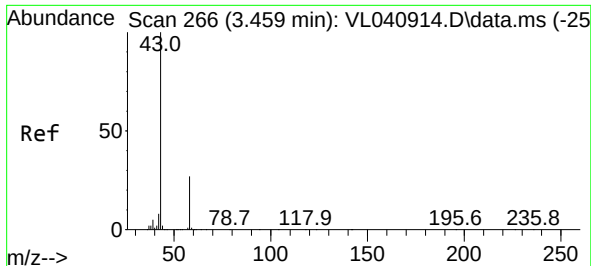
Tgt Ion: 45 Resp: 2585
Ion Ratio Lower Upper
45 100
46 0.0 15.0 60.0#



#14
Bromoethene
Concen: 1.053 ppbv
RT: 3.362 min Scan# 236
Delta R.T. 0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion:108 Resp: 56119
Ion Ratio Lower Upper
108 100
106 116.3 87.5 131.3
79 22.2 16.6 24.8

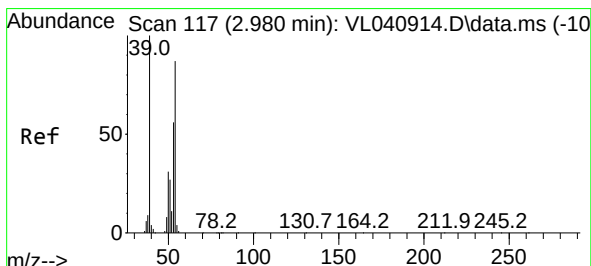
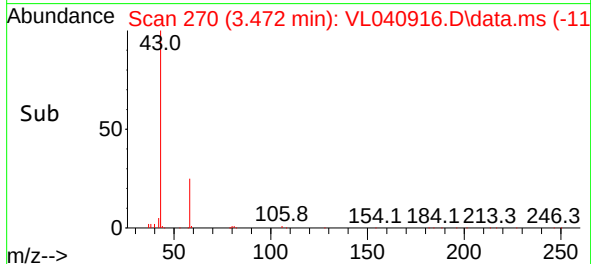
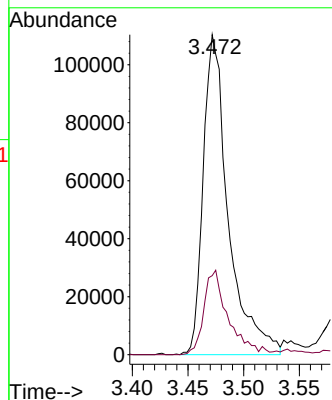
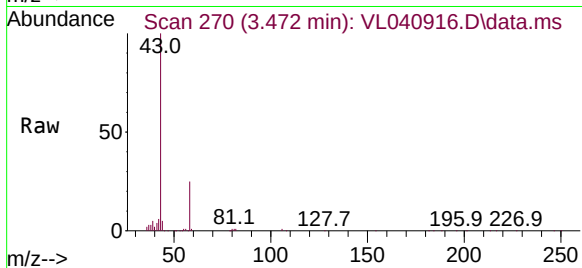




#15
Acetone
Concen: 1.149 ppbv
RT: 3.472 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

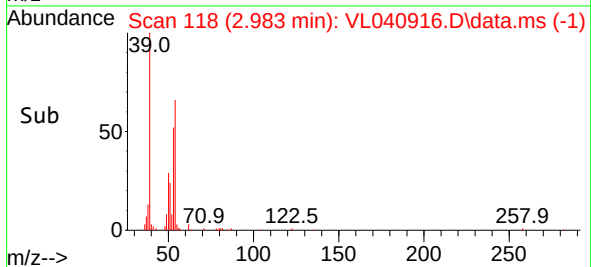
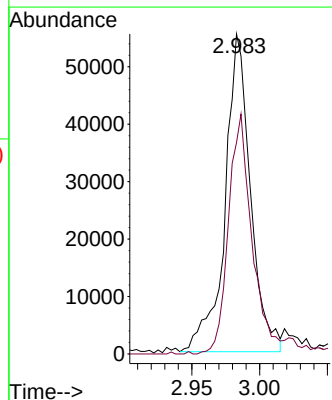
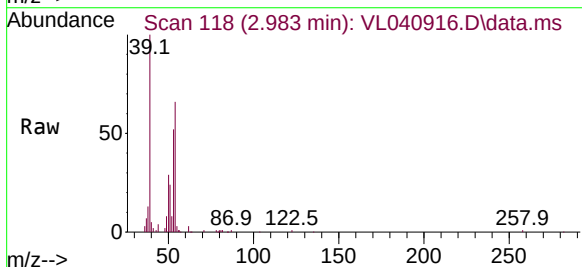
Instrument :
MSVOA_L
ClientSampleId :

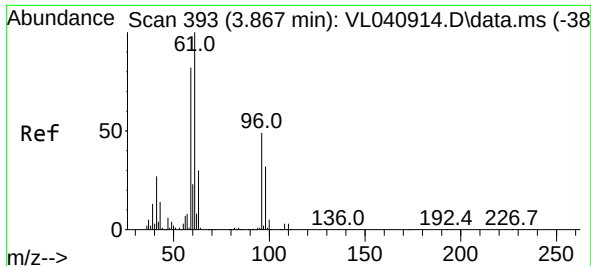
Tgt Ion: 43 Resp: 173272
Ion Ratio Lower Upper
43 100
58 27.3 20.6 30.8



#16
1,3-Butadiene
Concen: 1.115 ppbv
RT: 2.983 min Scan# 118
Delta R.T. 0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 39 Resp: 72405
Ion Ratio Lower Upper
39 100
54 75.3 63.8 95.6

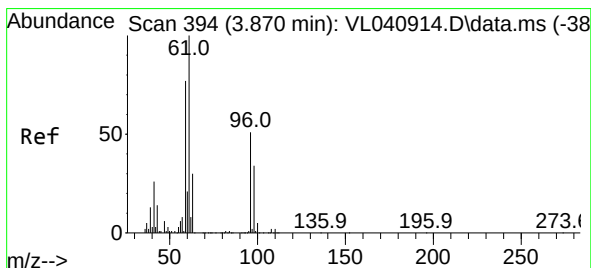
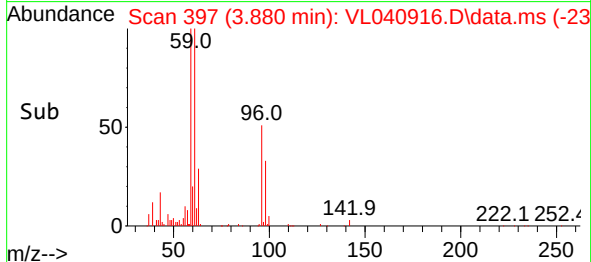
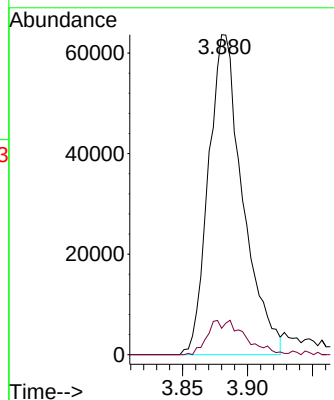
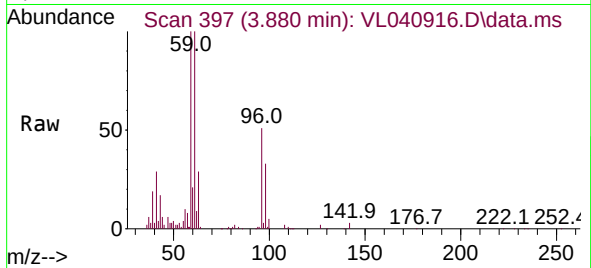




#17
tert-Butyl alcohol
Concen: 1.045 ppbv
RT: 3.880 min Scan# 397
Delta R.T. 0.013 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

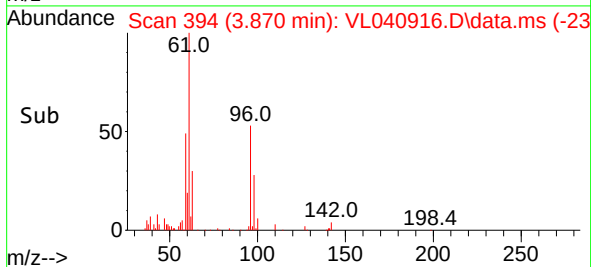
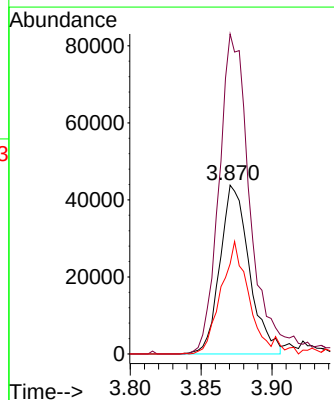
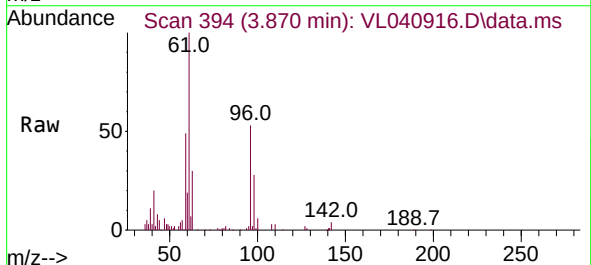
Instrument :
MSVOA_L
ClientSampleId :

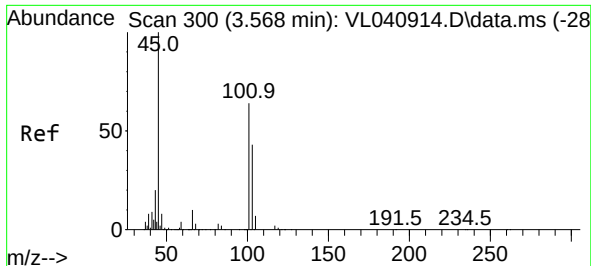
Tgt Ion: 59 Resp: 116607
Ion Ratio Lower Upper
59 100
57 12.2 8.3 12.5



#18
1,1-Dichloroethene
Concen: 1.052 ppbv
RT: 3.870 min Scan# 394
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 96 Resp: 63177
Ion Ratio Lower Upper
96 100
61 189.5 156.6 235.0
98 53.4 52.5 78.7





#19

Isopropyl Alcohol

Concen: 0.516 ppbv

RT: 3.581 min Scan# 300

Delta R.T. 0.013 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

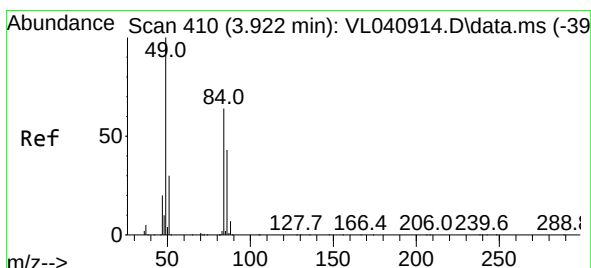
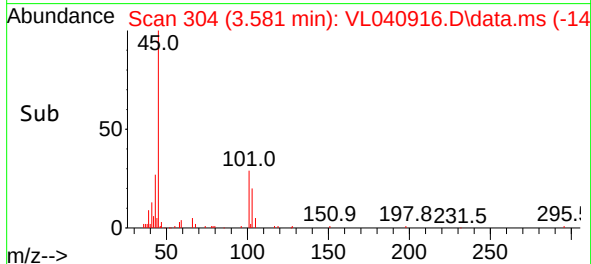
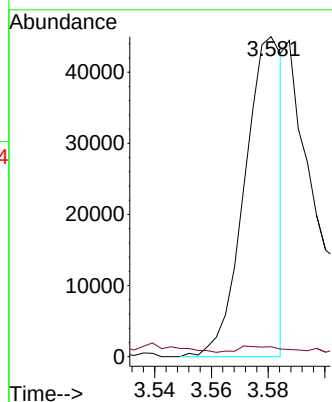
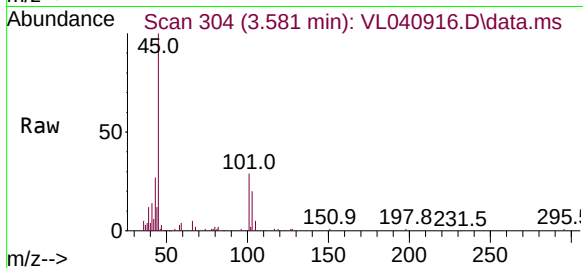
ClientSampleId :

Tgt Ion: 45 Resp: 41163

Ion Ratio Lower Upper

45 100

58 8.3 1.5 2.3#



#20

Methylene Chloride

Concen: 1.010 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.007 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Tgt Ion: 84 Resp: 54843

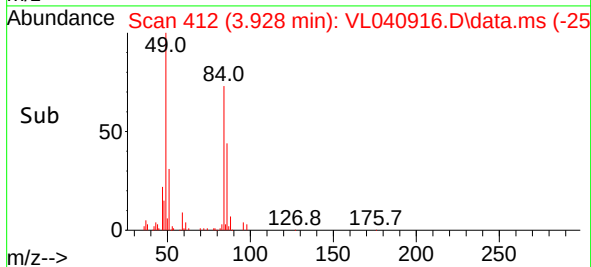
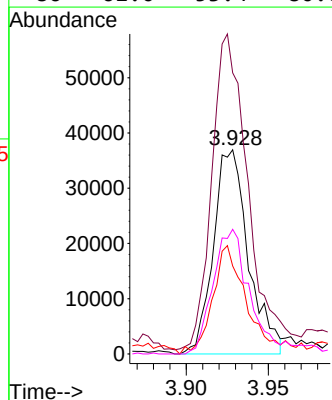
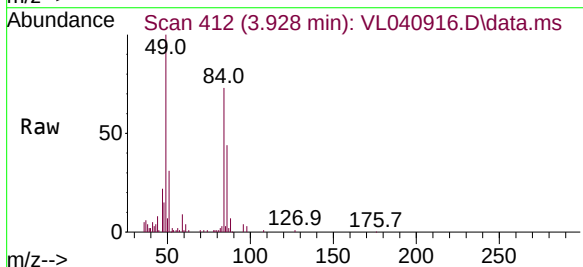
Ion Ratio Lower Upper

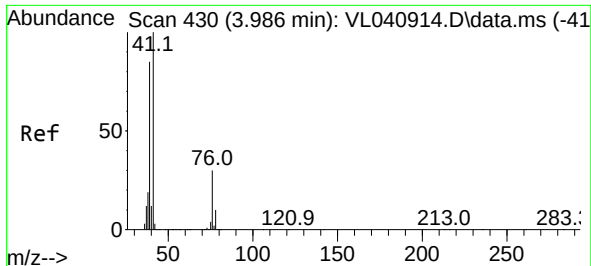
84 100

49 135.2 124.6 187.0

51 43.1 37.2 55.8

86 61.0 53.4 80.0





#21

Allyl Chloride

Concen: 0.965 ppbv

RT: 3.989 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :

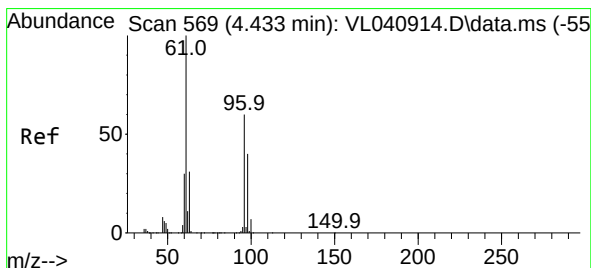
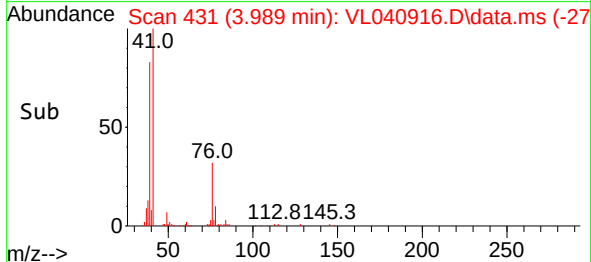
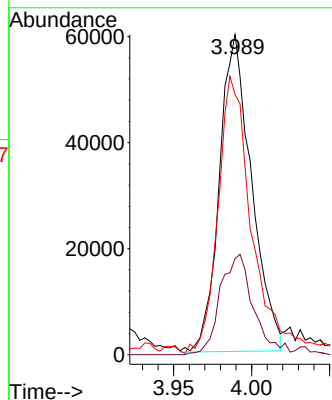
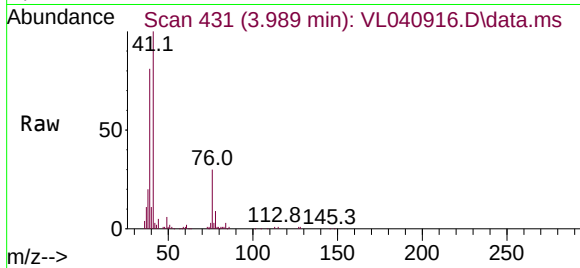
Tgt Ion: 41 Resp: 85976

Ion Ratio Lower Upper

41 100

76 33.9 23.9 35.9

39 92.4 66.5 99.7



#22

trans-1,2-Dichloroethene

Concen: 1.089 ppbv

RT: 4.436 min Scan# 570

Delta R.T. 0.003 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

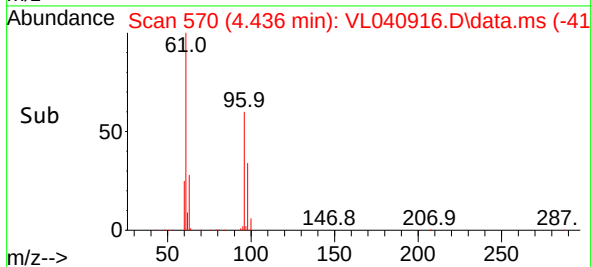
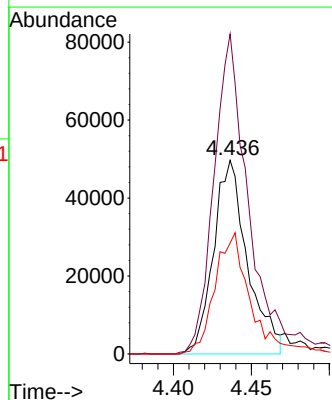
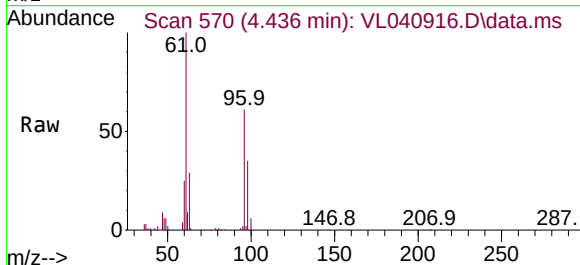
Tgt Ion: 96 Resp: 75347

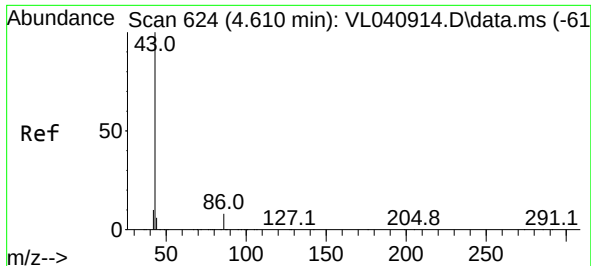
Ion Ratio Lower Upper

96 100

61 164.3 133.0 199.6

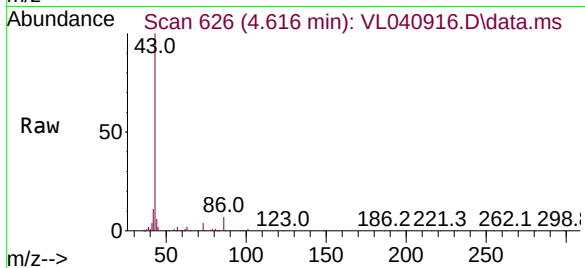
98 57.2 53.7 80.5



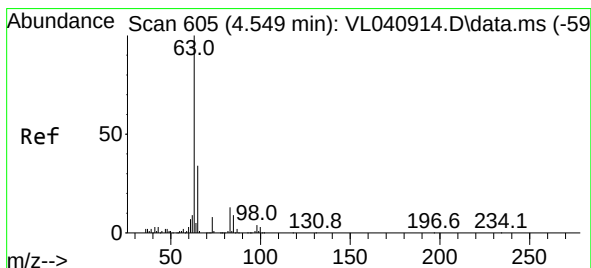
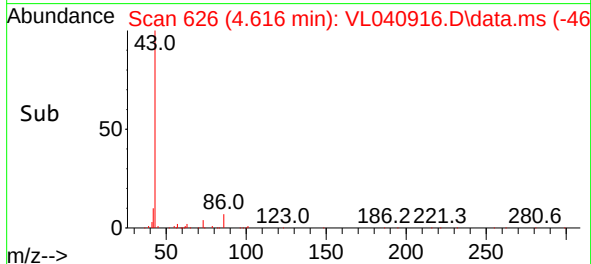
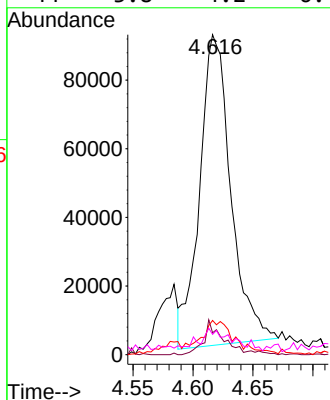


#23
 Vinyl Acetate
 Concen: 0.962 ppbv
 RT: 4.616 min Scan# 61
 Delta R.T. 0.007 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

Instrument :
 MSVOA_1
 ClientSampleId :

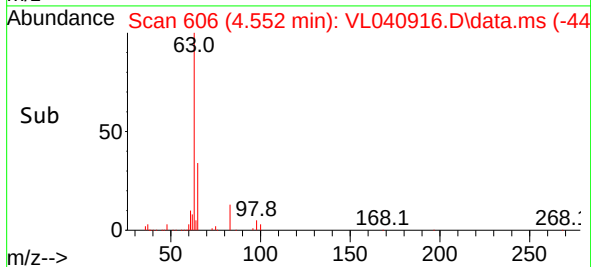
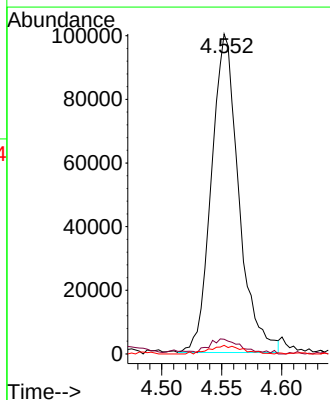
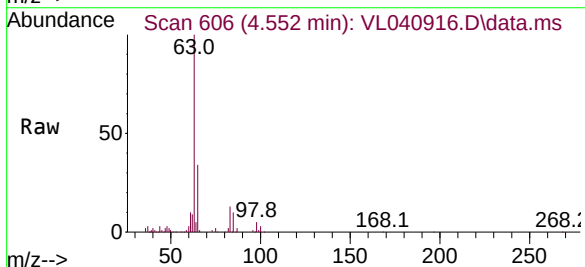


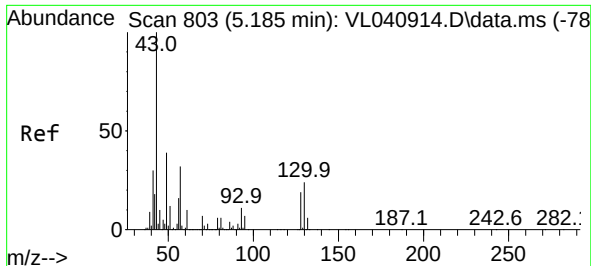
Tgt Ion: 43 Resp: 163950
 Ion Ratio Lower Upper
 43 100
 86 7.2 5.5 8.3
 42 10.9 8.4 12.6
 44 3.8 4.2 6.4#



#24
 1,1-Dichloroethane
 Concen: 1.066 ppbv
 RT: 4.552 min Scan# 606
 Delta R.T. 0.003 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

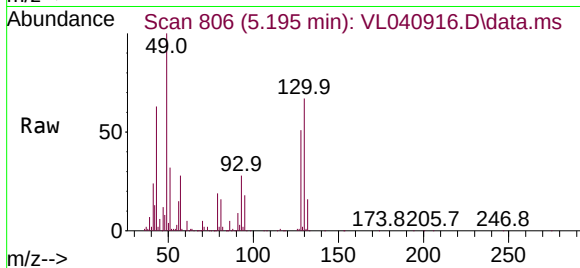
Tgt Ion: 63 Resp: 158705
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.1 6.5
 100 2.7 1.4 4.2





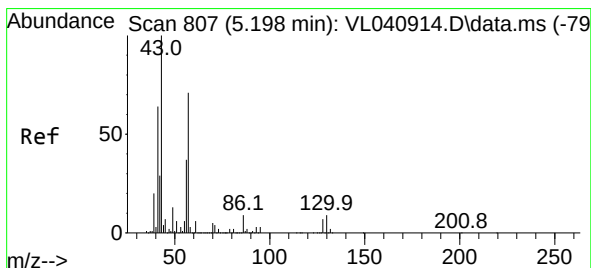
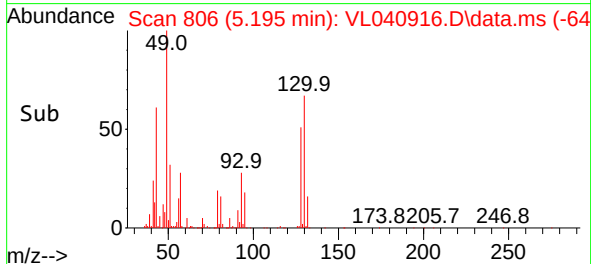
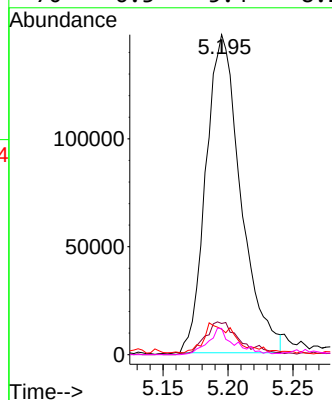
#25
Ethyl Acetate
Concen: 1.049 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.010 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 43 Resp: 274232

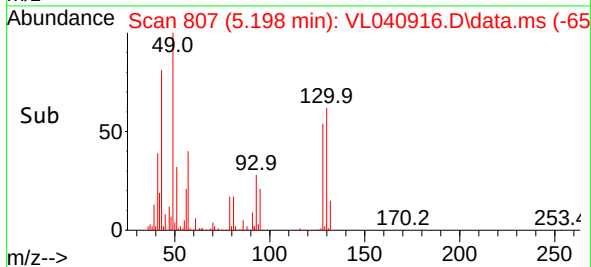
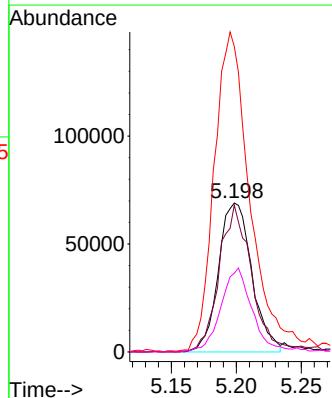
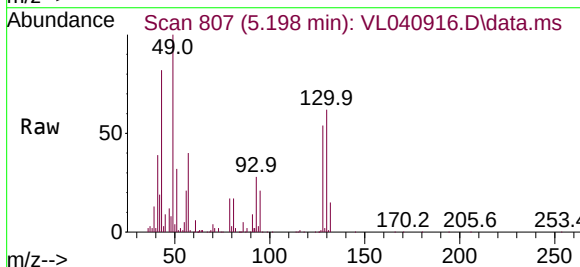
Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.2	12.2
61	11.1	7.6	11.4
70	6.3	5.4	8.2

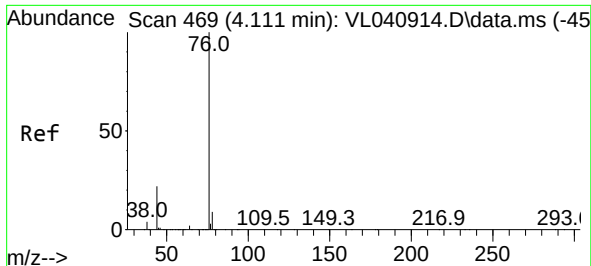


#26
Hexane
Concen: 1.057 ppbv
RT: 5.198 min Scan# 807
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 57 Resp: 123334

Ion	Ratio	Lower	Upper
57	100		
41	98.7	75.2	112.8
43	239.5	188.0	282.0
56	53.7	42.3	63.5

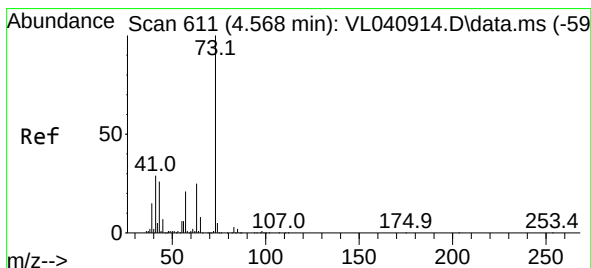
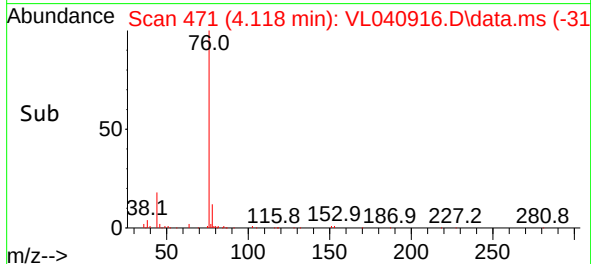
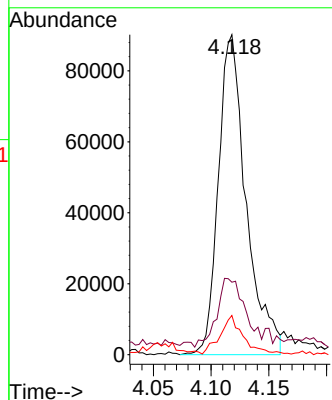
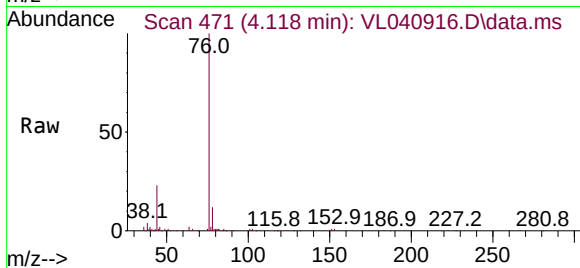




#27
Carbon Disulfide
Concen: 0.963 ppbv
RT: 4.118 min Scan# 411
Delta R.T. 0.007 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

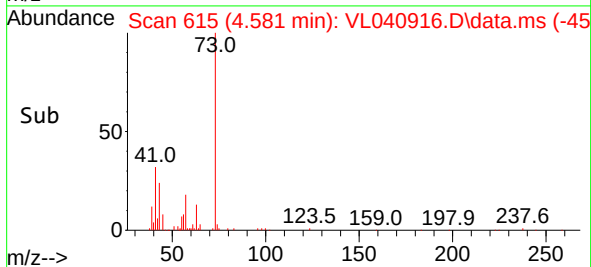
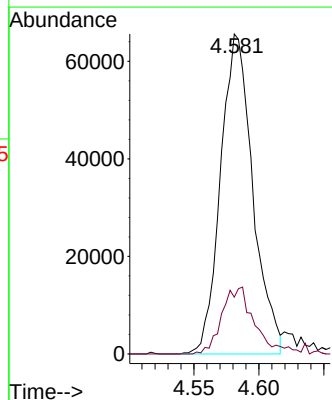
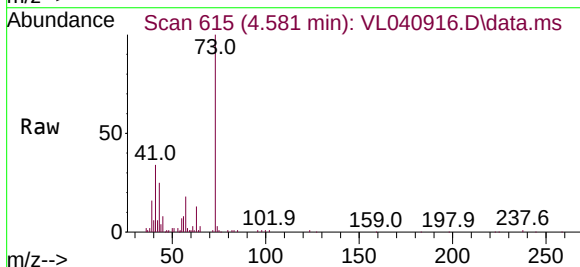
Instrument :
MSVOA_L
ClientSampleId :

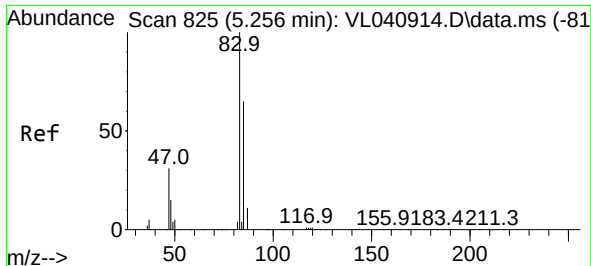
Tgt Ion: 76 Resp: 150911
Ion Ratio Lower Upper
76 100
44 24.4 18.4 27.6
78 11.0 7.9 11.9



#28
Methyl tert-Butyl Ether
Concen: 1.052 ppbv
RT: 4.581 min Scan# 615
Delta R.T. 0.013 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 73 Resp: 113076
Ion Ratio Lower Upper
73 100
57 21.9 18.0 27.0





#29

Chloroform

Concen: 1.042 ppbv

RT: 5.256 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

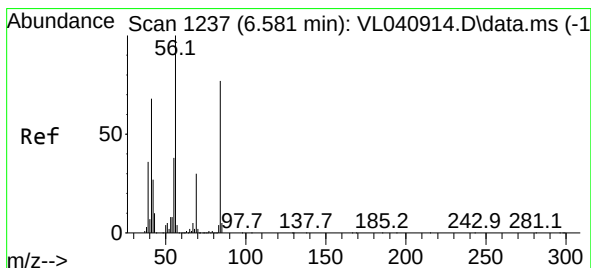
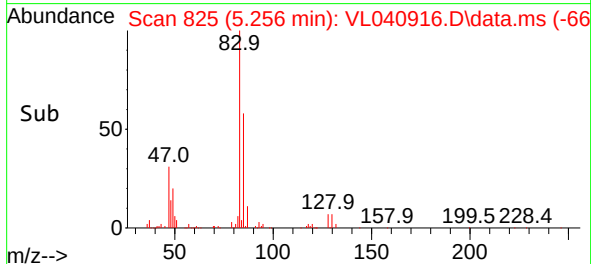
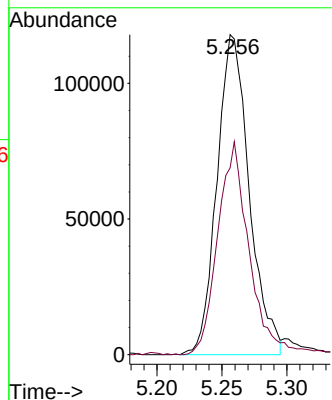
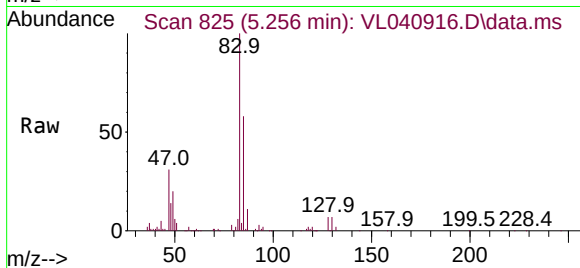
ClientSampleId :

Tgt Ion: 83 Resp: 203699

Ion Ratio Lower Upper

83 100

85 58.4 52.3 78.5



#30

Cyclohexane

Concen: 1.071 ppbv

RT: 6.584 min Scan# 1238

Delta R.T. 0.003 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

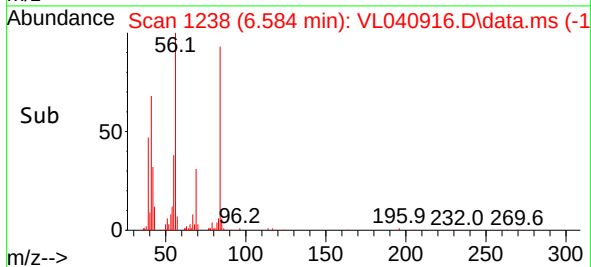
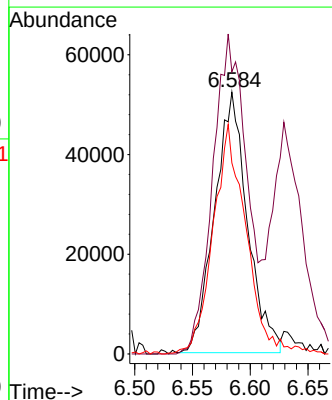
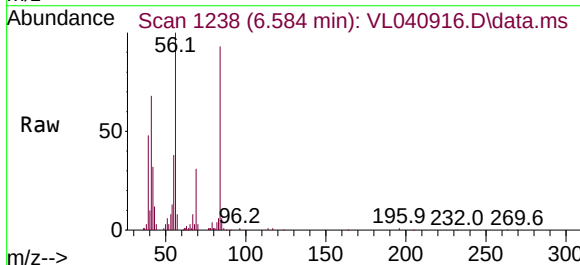
Tgt Ion: 84 Resp: 103376

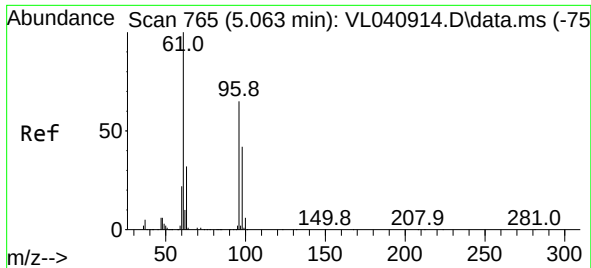
Ion Ratio Lower Upper

84 100

56 124.4 111.4 167.2

41 88.8 70.0 105.0

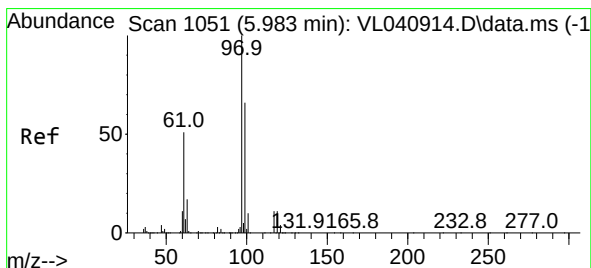
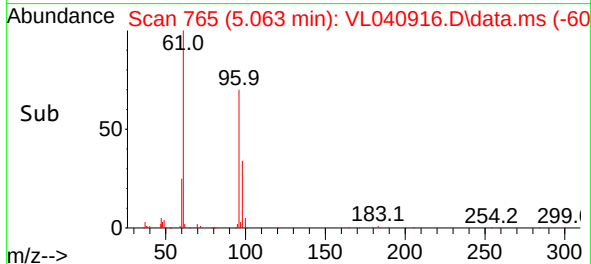
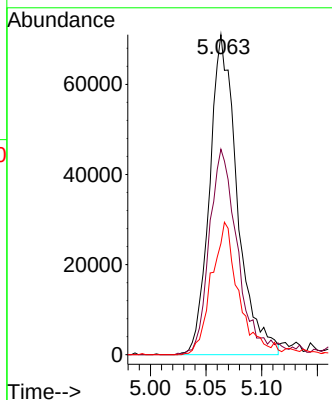
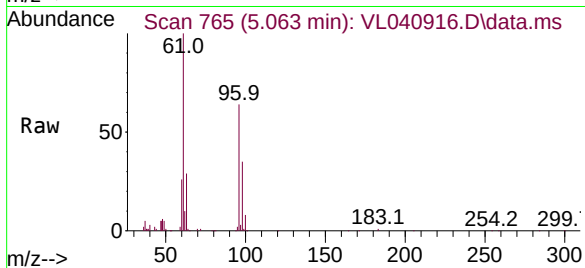




#31
 cis-1,2-Dichloroethene
 Concen: 1.036 ppbv
 RT: 5.063 min Scan# 765
 Delta R.T. 0.000 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

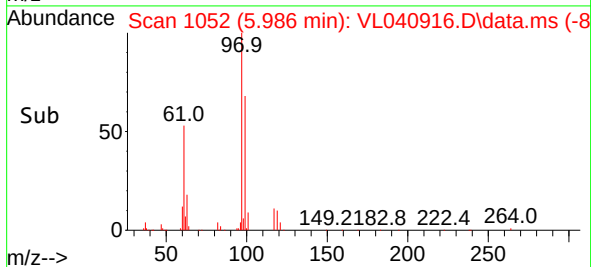
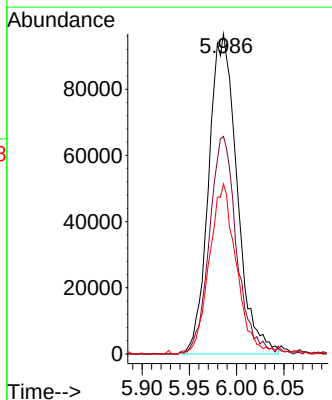
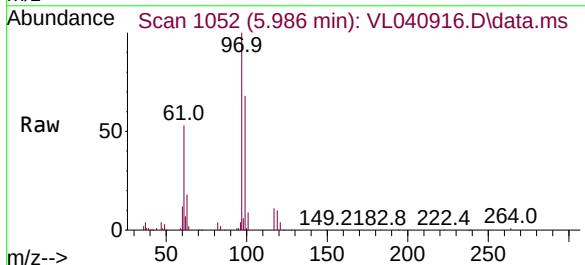
Instrument :
 MSVOA_L
 ClientSampleId :

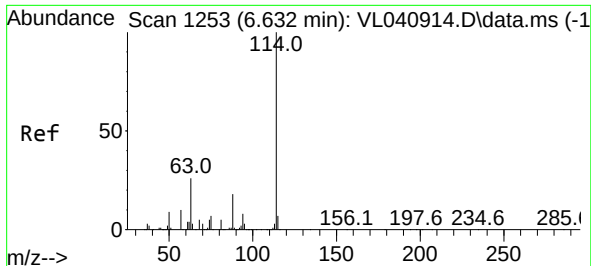
Tgt Ion: 61 Resp: 123189
 Ion Ratio Lower Upper
 61 100
 96 63.8 51.7 77.5
 98 34.8 33.2 49.8



#32
 1,1,1-Trichloroethane
 Concen: 1.082 ppbv
 RT: 5.986 min Scan# 1052
 Delta R.T. 0.003 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

Tgt Ion: 97 Resp: 201528
 Ion Ratio Lower Upper
 97 100
 99 65.9 51.8 77.6
 61 51.7 41.0 61.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :

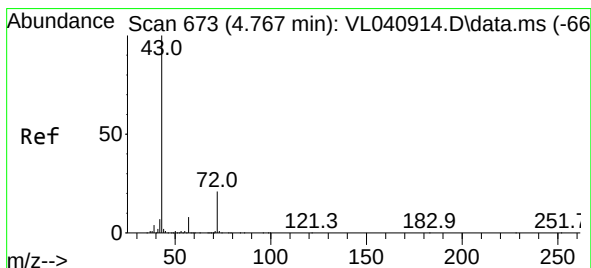
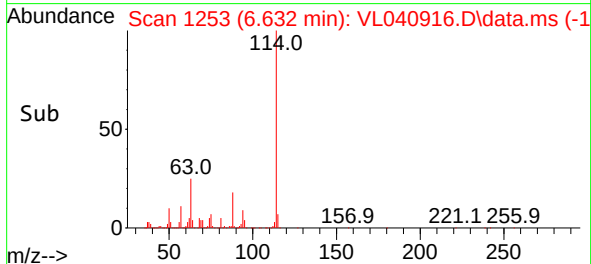
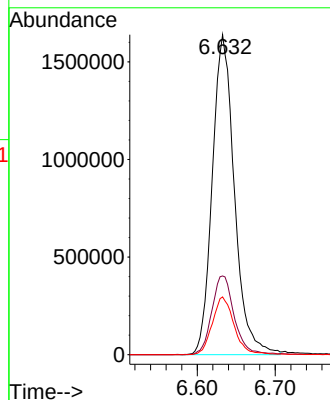
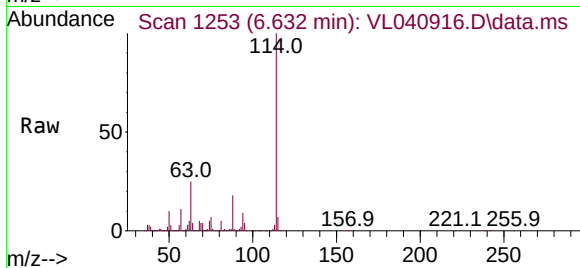
Tgt Ion:114 Resp: 3234029

Ion Ratio Lower Upper

114 100

63 25.2 21.0 31.6

88 17.9 14.3 21.5



#34

2-Butanone

Concen: 1.041 ppbv

RT: 4.784 min Scan# 678

Delta R.T. 0.016 min

Lab File: VL040916.D

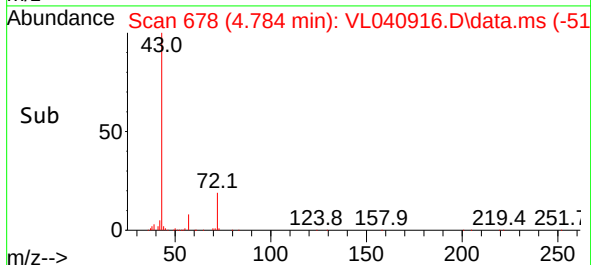
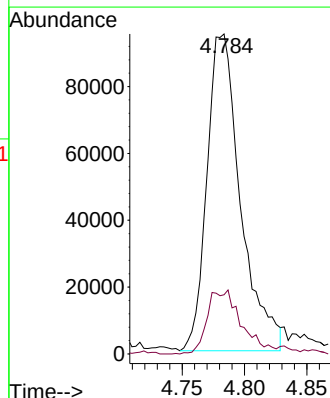
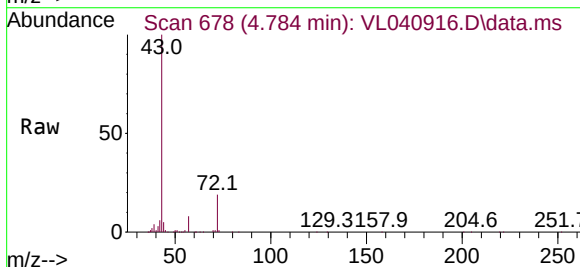
Acq: 20 Dec 2023 12:25

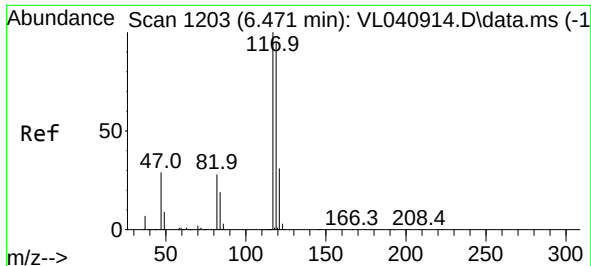
Tgt Ion: 43 Resp: 178110

Ion Ratio Lower Upper

43 100

72 22.2 17.2 25.8

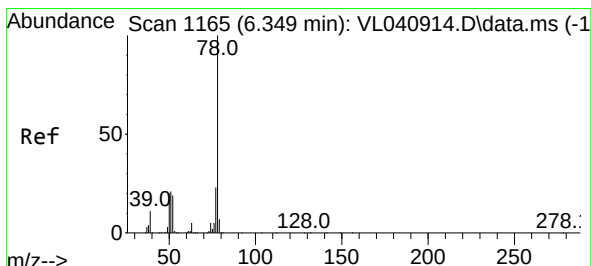
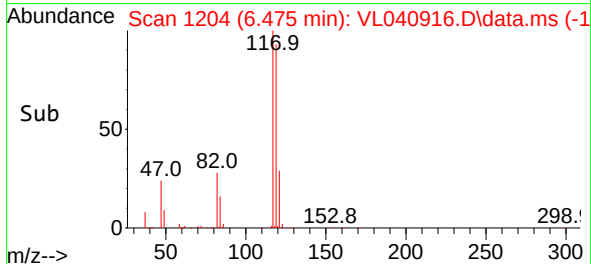
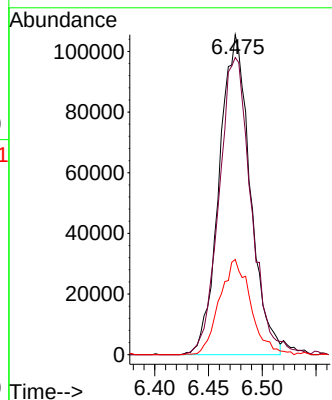
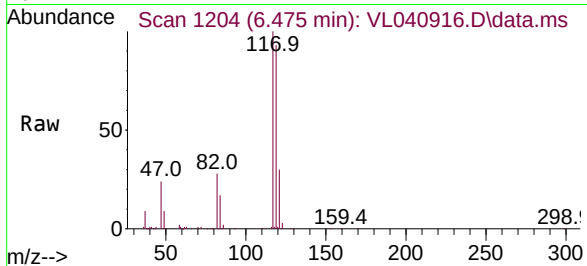




#35
Carbon Tetrachloride
Concen: 1.039 ppbv
RT: 6.475 min Scan# 1117
Delta R.T. 0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

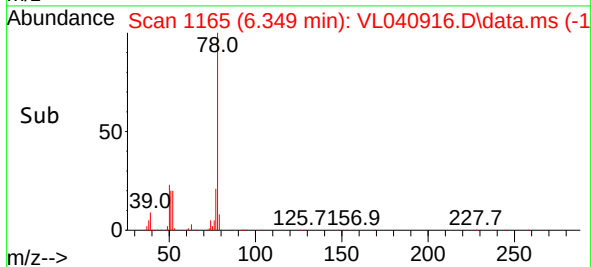
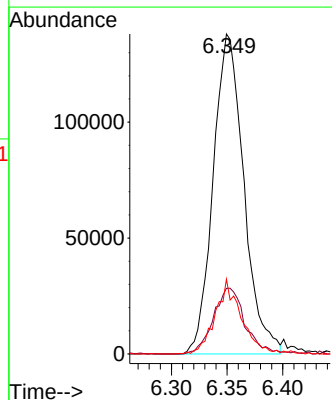
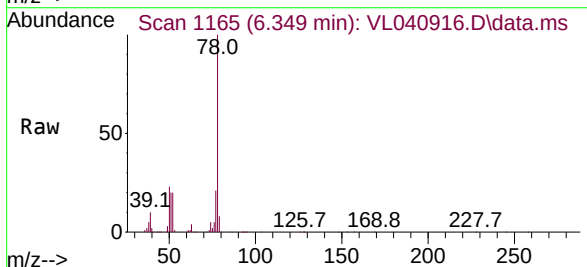
Instrument :
MSVOA_L
ClientSampleId :

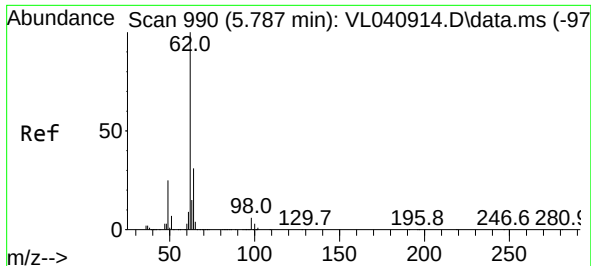
Tgt Ion:117 Resp: 211167
Ion Ratio Lower Upper
117 100
119 92.8 76.3 114.5
121 30.2 24.9 37.3



#36
Benzene
Concen: 1.046 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 78 Resp: 264404
Ion Ratio Lower Upper
78 100
77 20.5 18.4 27.6
50 23.2 16.0 24.0





#37

1,2-Dichloroethane

Concen: 1.004 ppbv

RT: 5.787 min Scan# 990

Delta R.T. 0.000 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

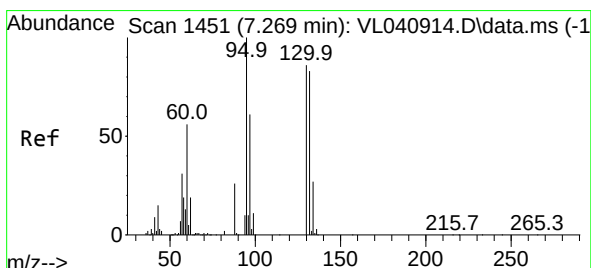
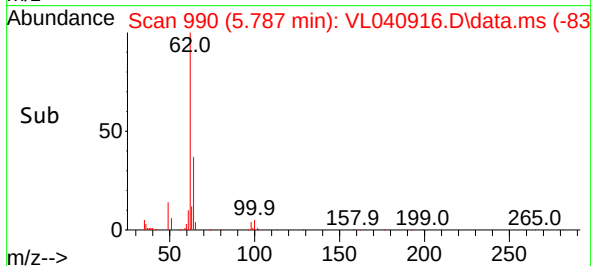
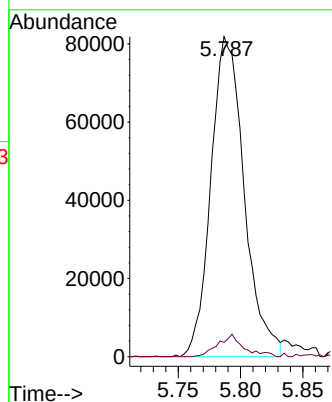
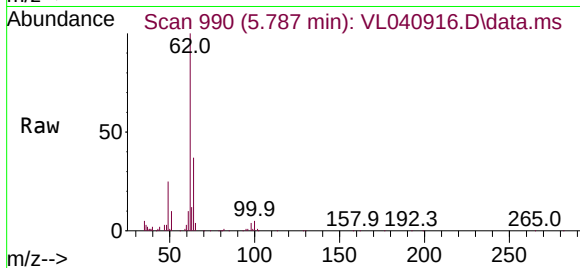
ClientSampleId :

Tgt Ion: 62 Resp: 152110

Ion Ratio Lower Upper

62 100

98 5.9 4.6 7.0



#38

Trichloroethene

Concen: 1.021 ppbv

RT: 7.269 min Scan# 1451

Delta R.T. 0.000 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Tgt Ion:130 Resp: 99297

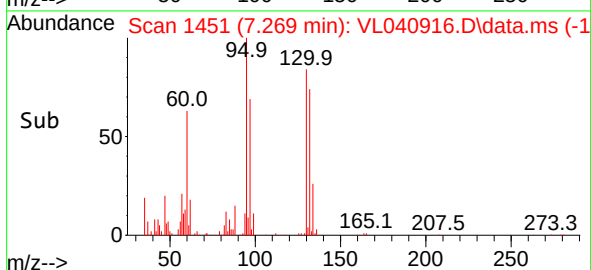
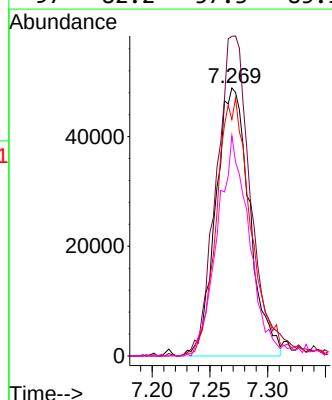
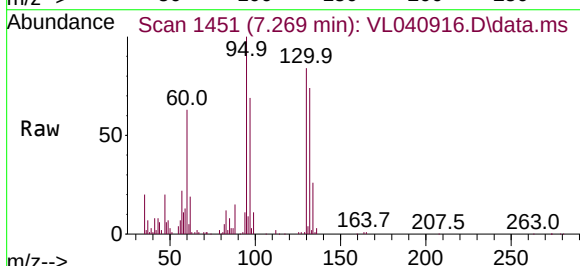
Ion Ratio Lower Upper

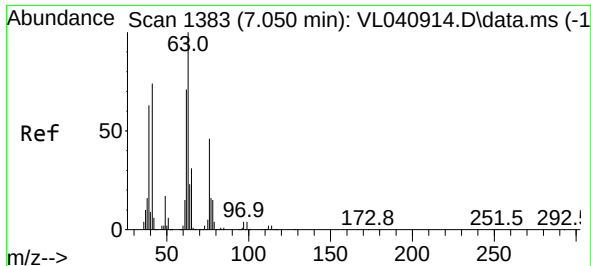
130 100

95 119.3 93.5 140.3

132 88.2 77.4 116.2

97 82.2 57.3 85.9





#39

1,2-Dichloropropane

Concen: 1.010 ppbv

RT: 7.054 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :

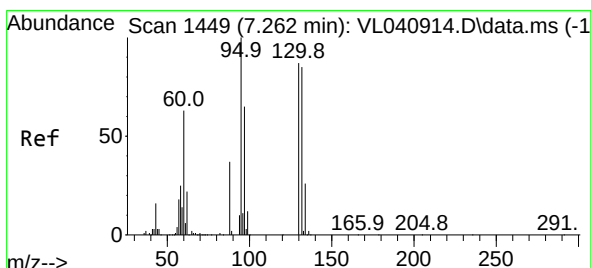
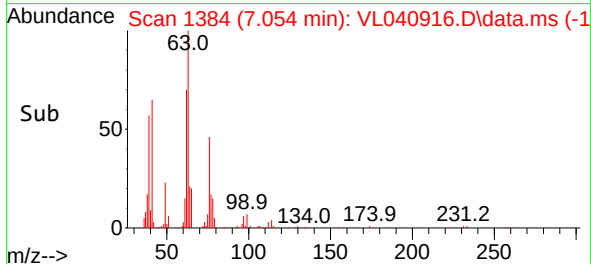
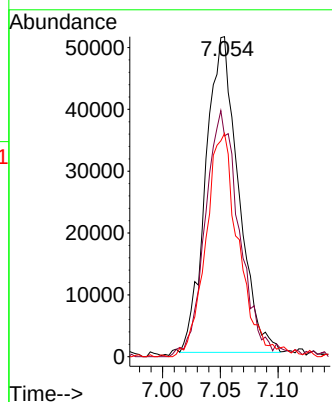
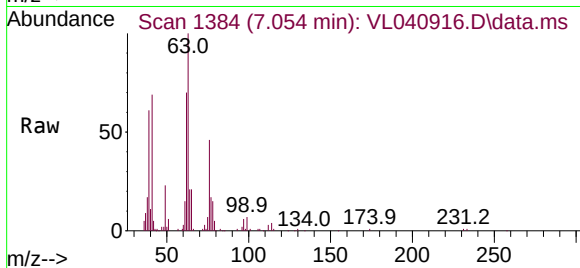
Tgt Ion: 63 Resp: 100597

Ion Ratio Lower Upper

63 100

41 67.2 59.0 88.6

62 68.0 56.6 85.0



#40

1,4-Dioxane

Concen: 0.004 ppbv

RT: 7.250 min Scan# 1445

Delta R.T. -0.013 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Tgt Ion: 88 Resp: 179

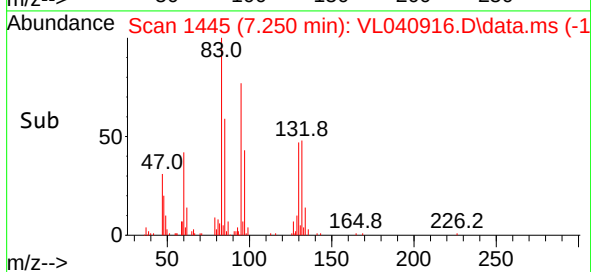
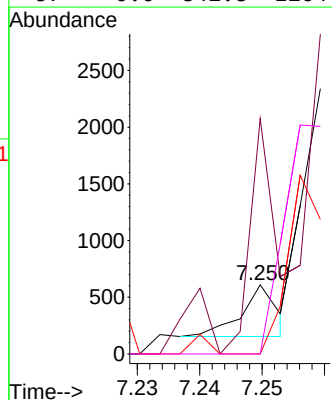
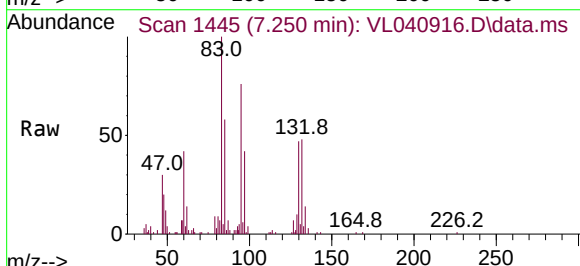
Ion Ratio Lower Upper

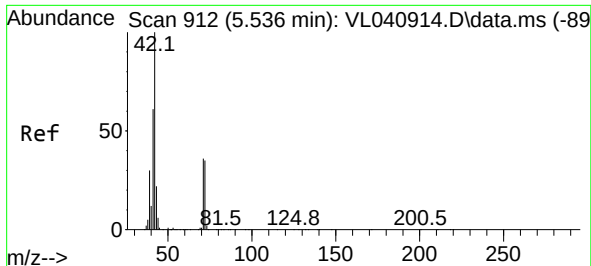
88 100

58 0.0 97.3 145.9#

43 0.0 200.6 300.8#

57 0.0 842.8 1264.2#

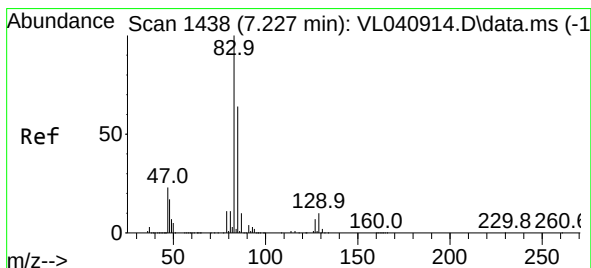
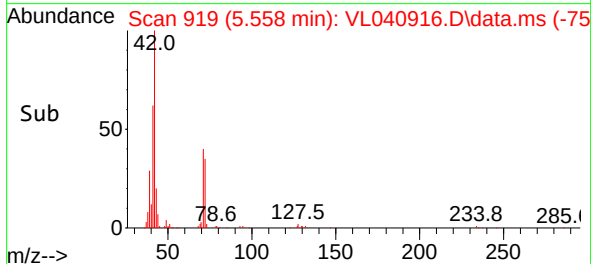
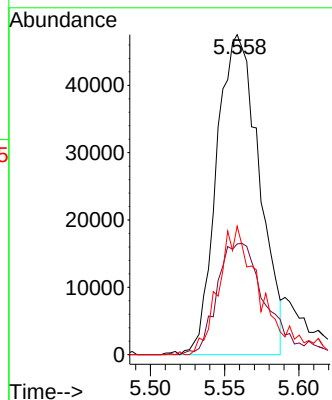
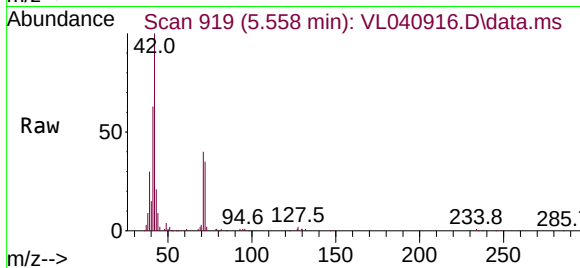




#41
Tetrahydrofuran
Concen: 0.912 ppbv
RT: 5.558 min Scan# 912
Delta R.T. 0.023 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

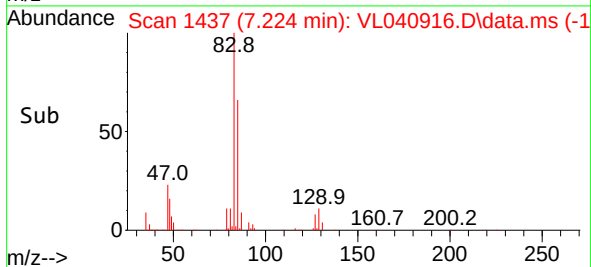
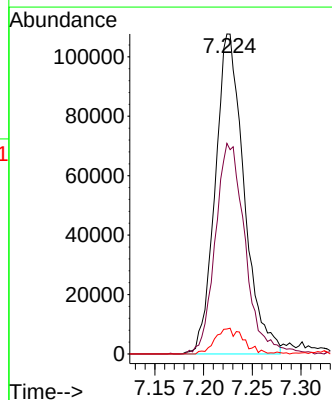
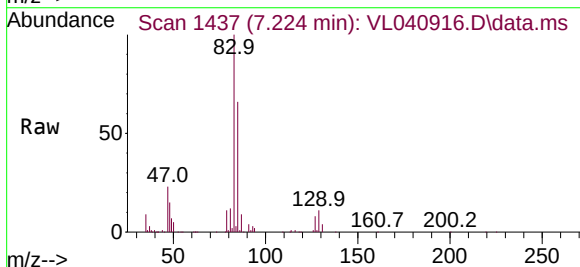
Instrument :
MSVOA_L
ClientSampleId :

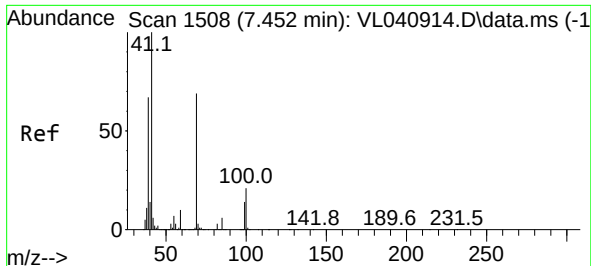
Tgt Ion: 42 Resp: 94684
Ion Ratio Lower Upper
42 100
72 40.7 29.6 44.4
71 41.5 29.1 43.7



#42
Bromodichloromethane
Concen: 1.016 ppbv
RT: 7.224 min Scan# 1437
Delta R.T. -0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 83 Resp: 221877
Ion Ratio Lower Upper
83 100
85 65.8 51.4 77.0
127 7.8 5.9 8.9

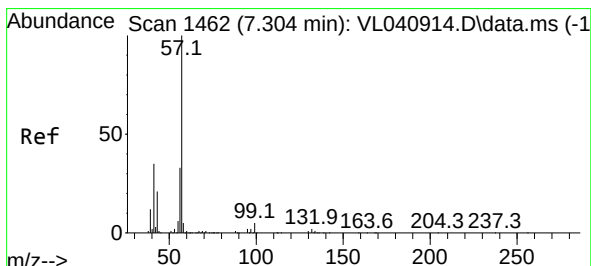
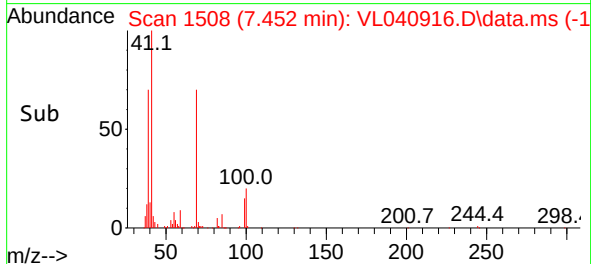
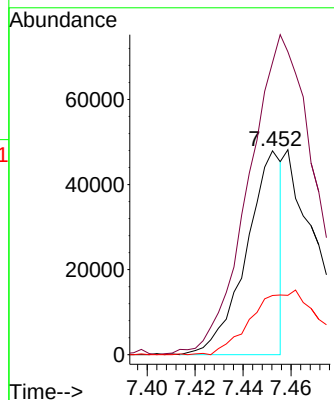
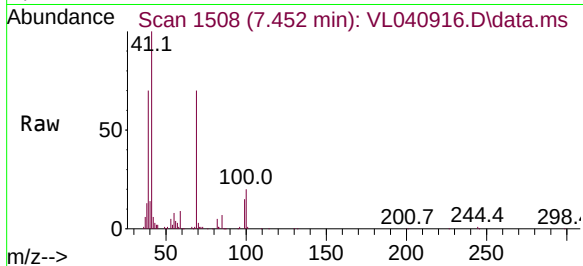




#43
Methyl Methacrylate
Concen: 0.500 ppbv
RT: 7.452 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

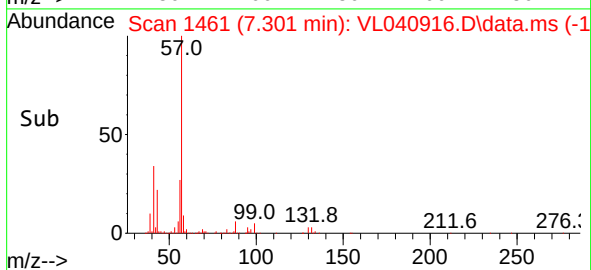
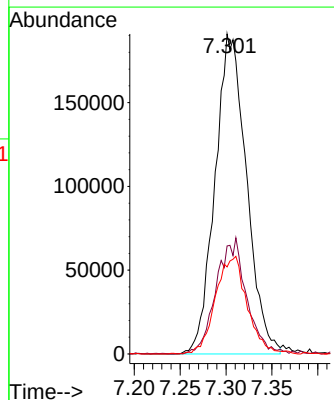
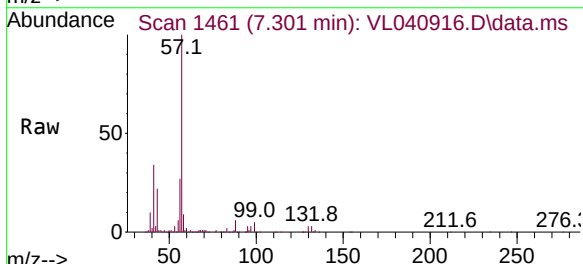
Instrument :
MSVOA_L
ClientSampleId :

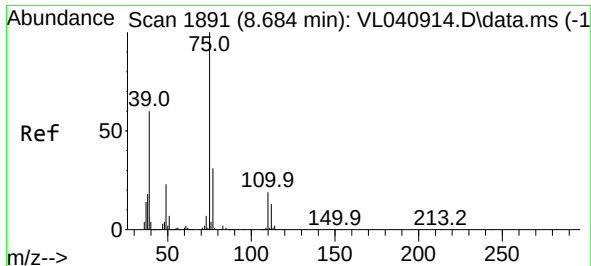
Tgt Ion: 69 Resp: 49259
Ion Ratio Lower Upper
69 100
41 0.0 119.9 179.9#
100 0.0 25.1 37.7#



#44
2,2,4-Trimethylpentane
Concen: 1.062 ppbv
RT: 7.301 min Scan# 1461
Delta R.T. -0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 57 Resp: 456135
Ion Ratio Lower Upper
57 100
41 35.3 28.2 42.4
56 30.7 25.3 37.9

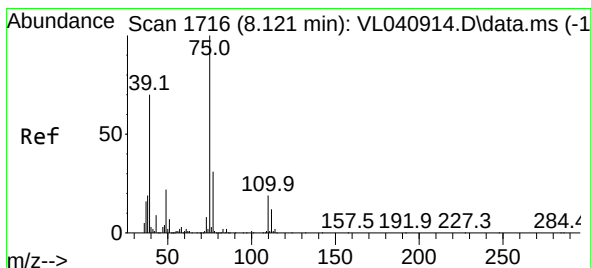
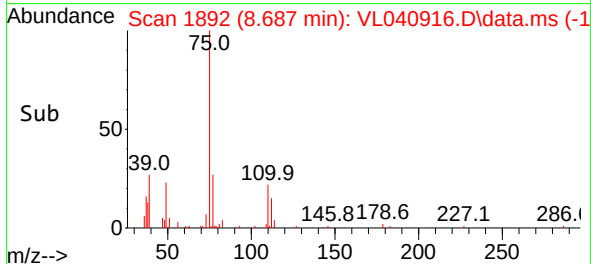
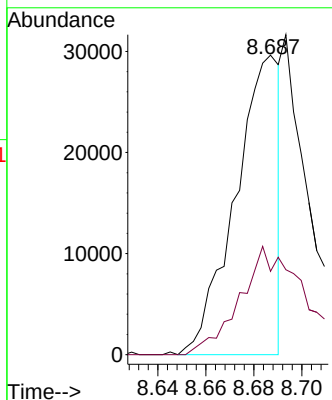
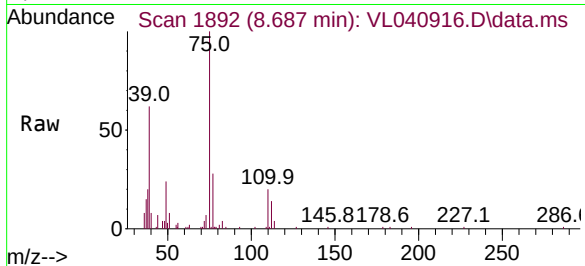




#45
 t-1,3-Dichloropropene
 Concen: 0.518 ppbv
 RT: 8.687 min Scan# 11
 Delta R.T. 0.003 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

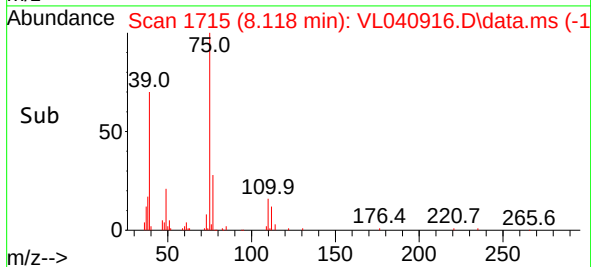
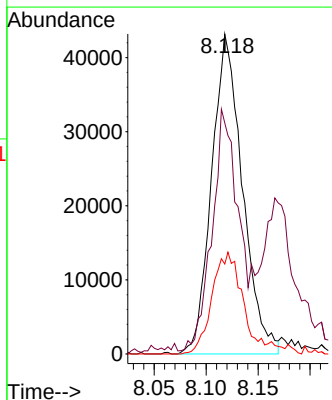
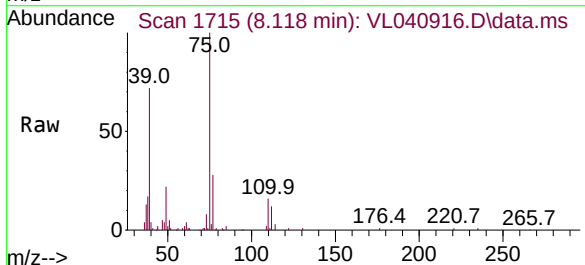
Instrument :
 MSVOA_L
 ClientSampleId :

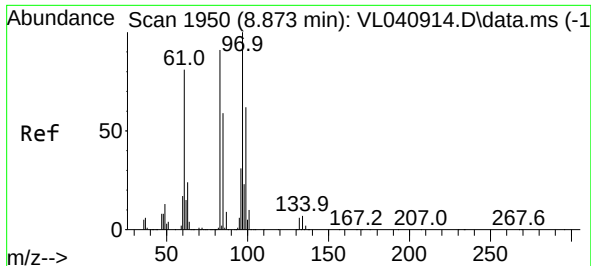
Tgt Ion: 75 Resp: 37881
 Ion Ratio Lower Upper
 75 100
 77 28.7 24.8 37.2



#46
 cis-1,3-Dichloropropene
 Concen: 0.978 ppbv
 RT: 8.118 min Scan# 1715
 Delta R.T. -0.003 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

Tgt Ion: 75 Resp: 89037
 Ion Ratio Lower Upper
 75 100
 39 71.2 56.2 84.4
 77 28.1 24.5 36.7





#47

1,1,2-Trichloroethane

Concen: 1.014 ppbv

RT: 8.873 min Scan# 1950

Delta R.T. 0.000 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 97 Resp: 108091

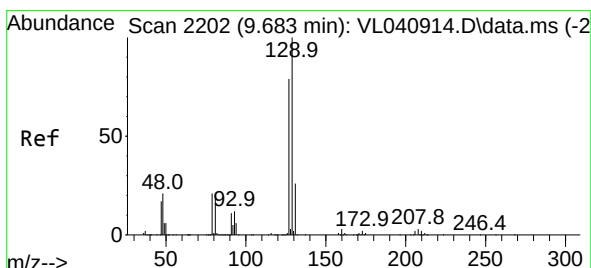
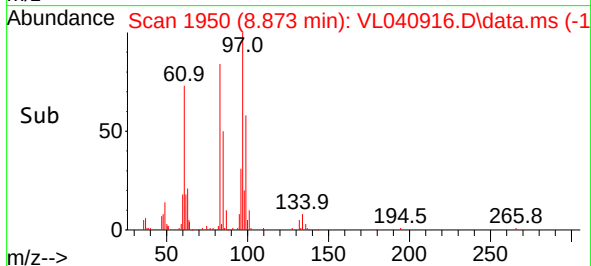
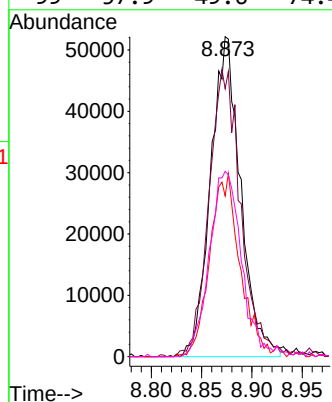
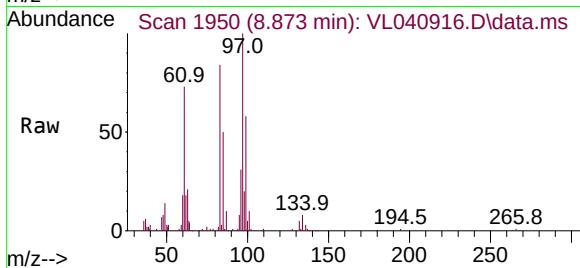
Ion Ratio Lower Upper

97 100

83 81.9 72.6 108.8

85 49.6 47.4 71.0

99 57.9 49.6 74.4



#48

Dibromochloromethane

Concen: 0.993 ppbv

RT: 9.684 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VL040916.D

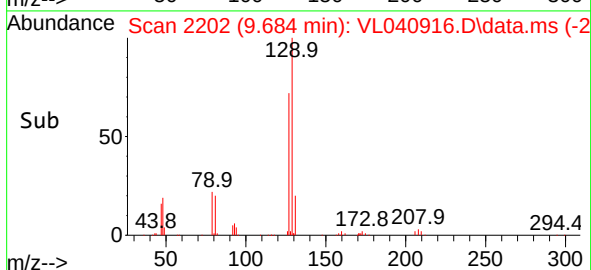
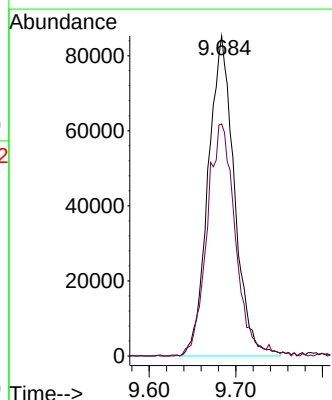
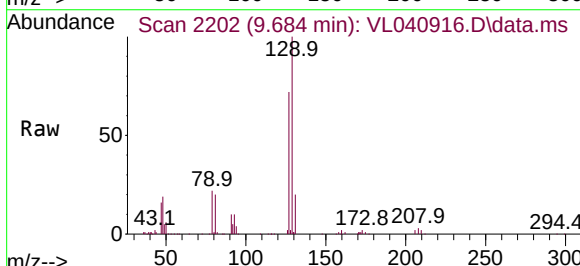
Acq: 20 Dec 2023 12:25

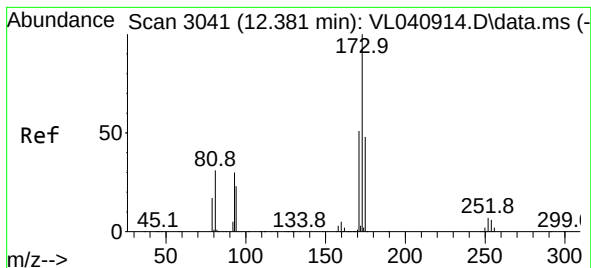
Tgt Ion: 129 Resp: 178669

Ion Ratio Lower Upper

129 100

127 78.6 39.6 119.0





#49

Bromoform

Concen: 0.961 ppbv

RT: 12.375 min Scan# 3041

Delta R.T. -0.006 min

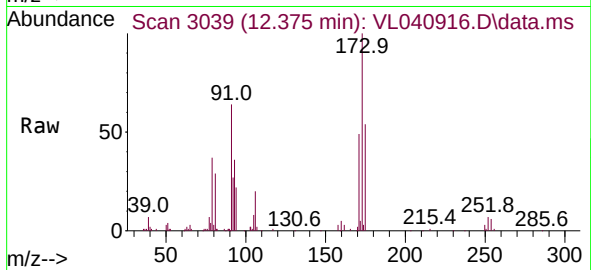
Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :



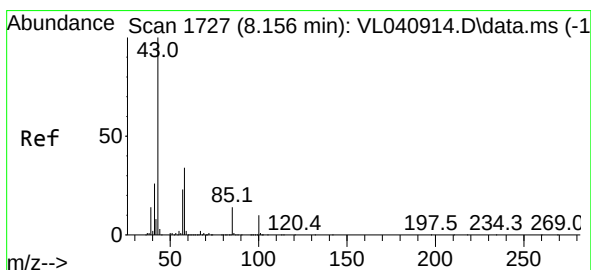
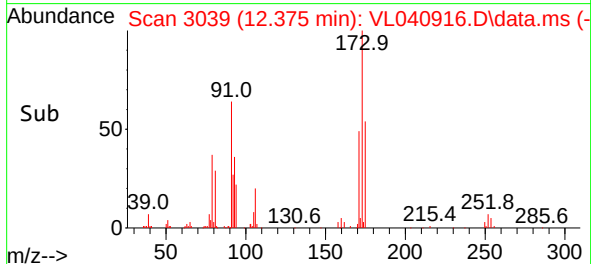
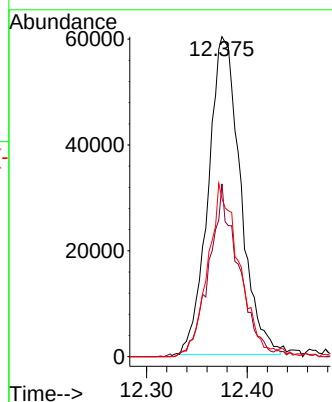
Tgt Ion:173 Resp: 133889

Ion Ratio Lower Upper

173 100

175 50.5 39.3 58.9

171 54.1 41.8 62.6



#50

4-Methyl-2-Pentanone

Concen: 0.960 ppbv

RT: 8.172 min Scan# 1732

Delta R.T. 0.016 min

Lab File: VL040916.D

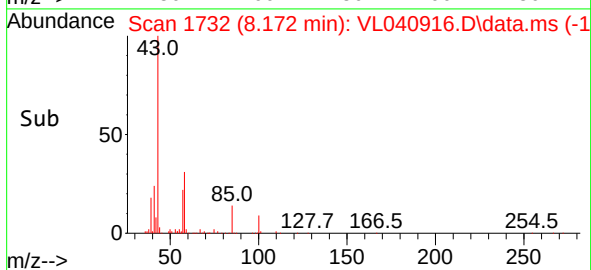
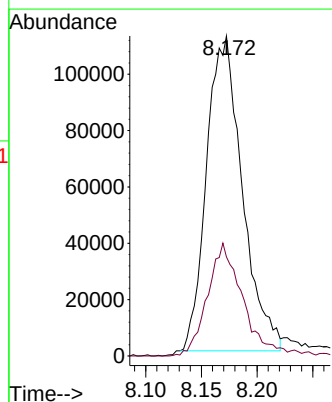
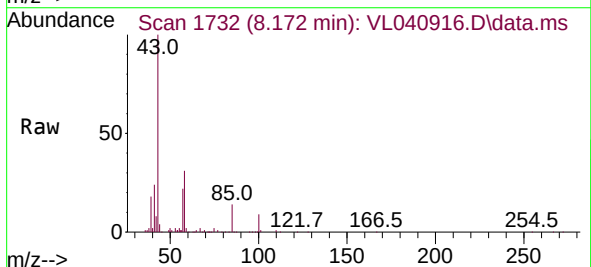
Acq: 20 Dec 2023 12:25

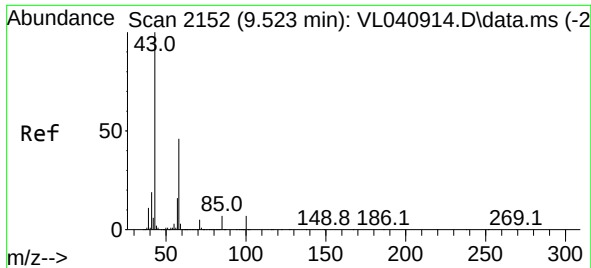
Tgt Ion: 43 Resp: 249241

Ion Ratio Lower Upper

43 100

58 35.6 27.4 41.0

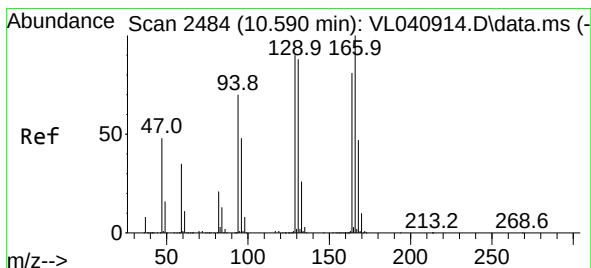
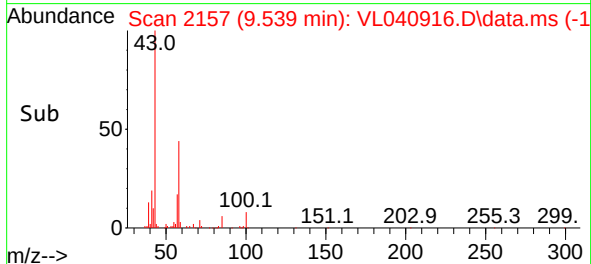
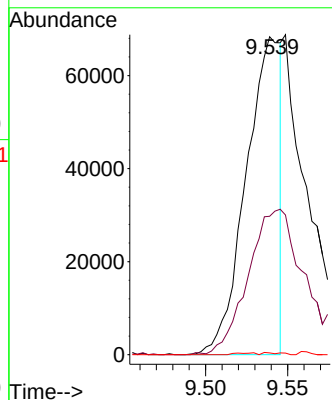
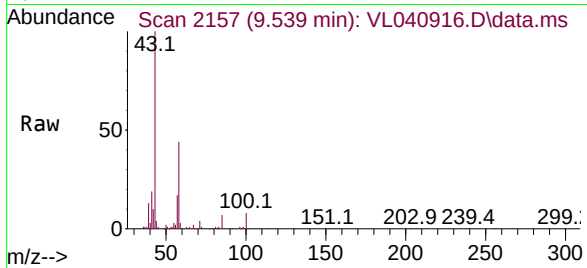




#51
2-Hexanone
Concen: 0.536 ppbv
RT: 9.539 min Scan# 2152
Delta R.T. 0.016 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

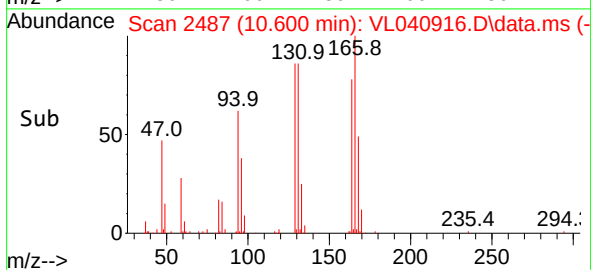
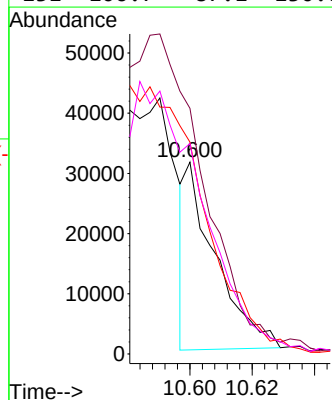
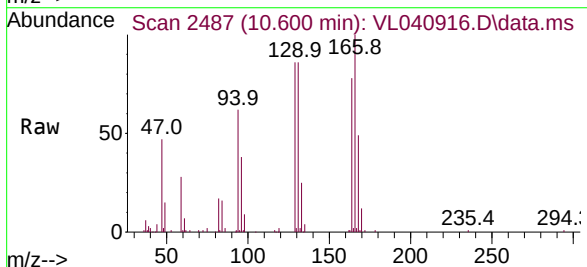
Instrument :
MSVOA_L
ClientSampleId :

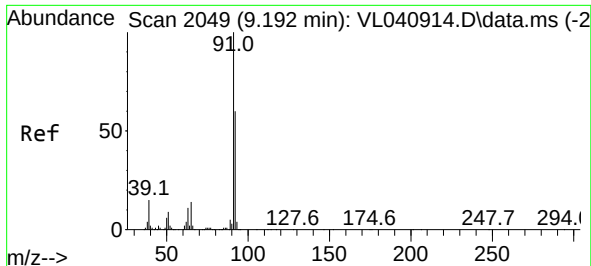
Tgt Ion: 43 Resp: 100153
Ion Ratio Lower Upper
43 100
58 0.0 37.3 55.9#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.246 ppbv
RT: 10.600 min Scan# 2487
Delta R.T. 0.010 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 164 Resp: 20960
Ion Ratio Lower Upper
164 100
166 125.9 98.9 148.3
129 109.3 88.7 133.1
131 106.7 87.1 130.7

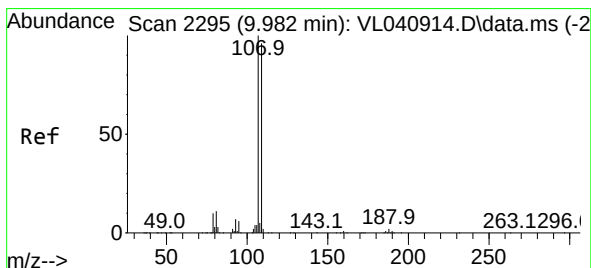
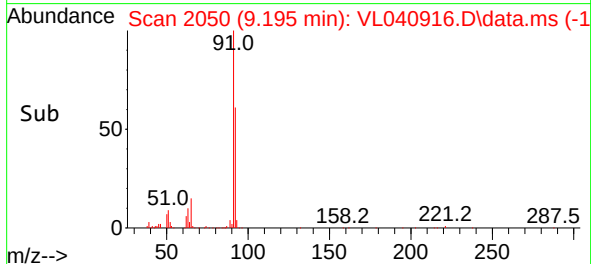
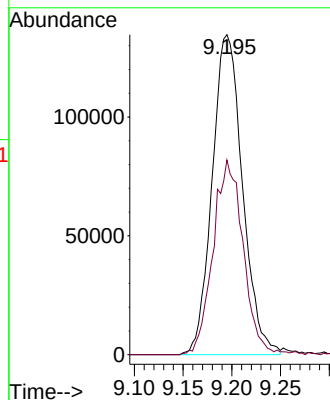
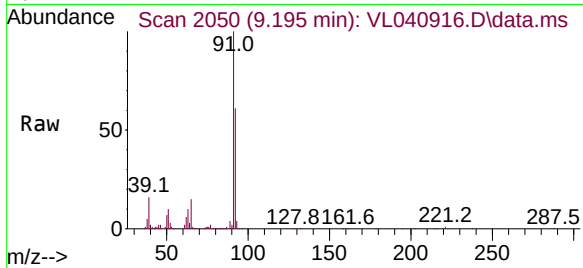




#53
Toluene
Concen: 1.033 ppbv
RT: 9.195 min Scan# 2050
Delta R.T. 0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

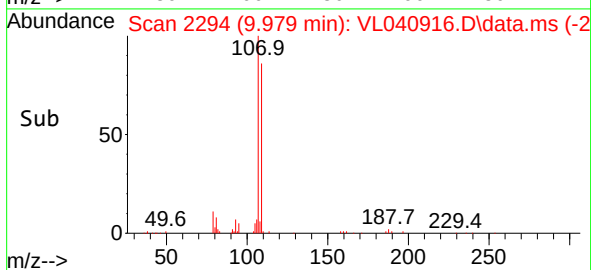
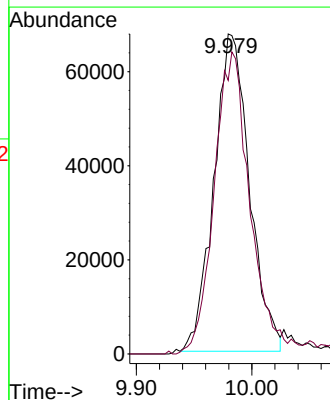
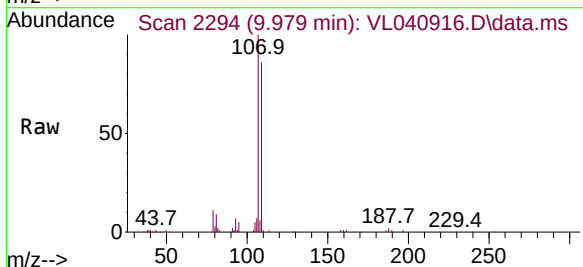
Instrument :
MSVOA_L
ClientSampleId :

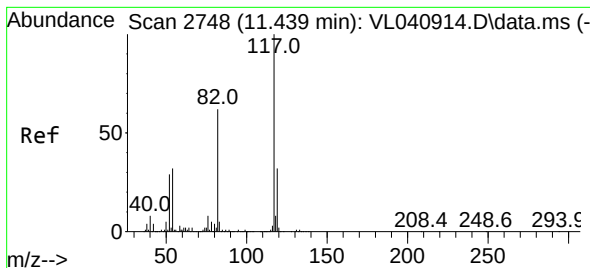
Tgt Ion: 91 Resp: 291871
Ion Ratio Lower Upper
91 100
92 60.5 49.2 73.8



#54
1,2-Dibromoethane
Concen: 0.990 ppbv
RT: 9.979 min Scan# 2294
Delta R.T. -0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 107 Resp: 144097
Ion Ratio Lower Upper
107 100
109 85.7 77.0 115.4

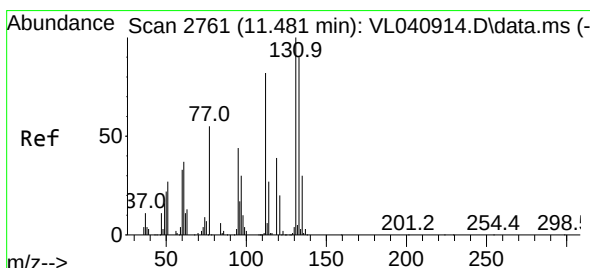
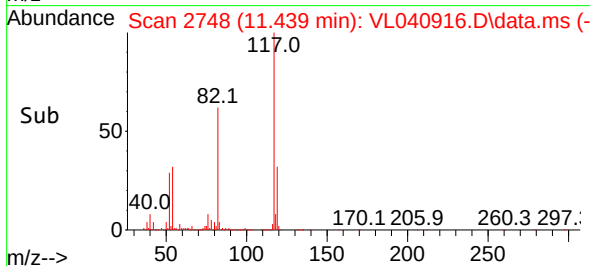
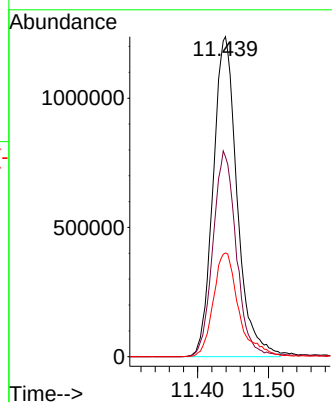
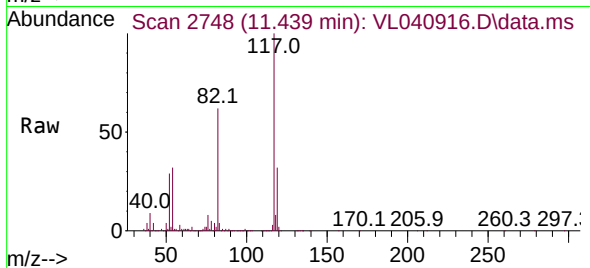




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

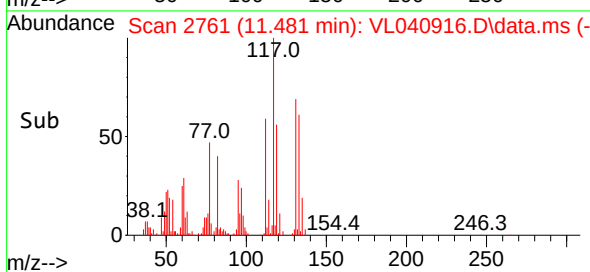
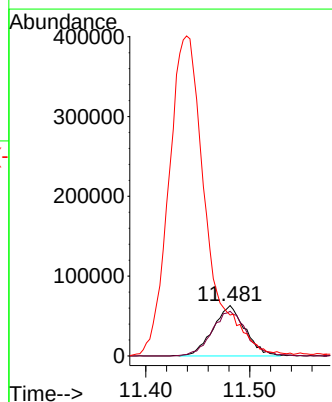
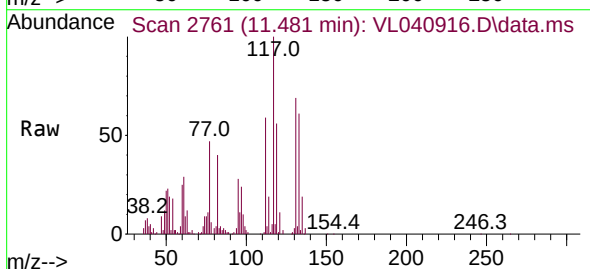
Instrument :
MSVOA_L
ClientSampleId :

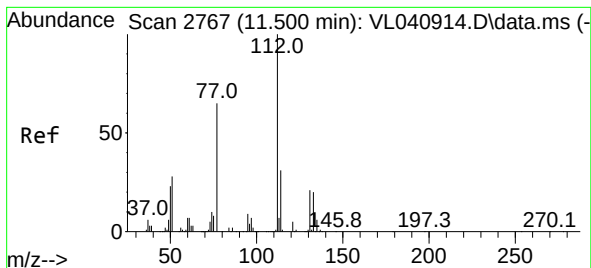
Tgt Ion:117 Resp: 2908234
Ion Ratio Lower Upper
117 100
82 63.9 49.6 74.4
119 34.7 23.4 35.0



#56
1,1,1,2-Tetrachloroethane
Concen: 1.060 ppbv
RT: 11.481 min Scan# 2761
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion:131 Resp: 134808
Ion Ratio Lower Upper
131 100
133 97.0 76.3 114.5
119 749.2 48.6 73.0#





#57

Chlorobenzene

Concen: 0.413 ppbv

RT: 11.504 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :

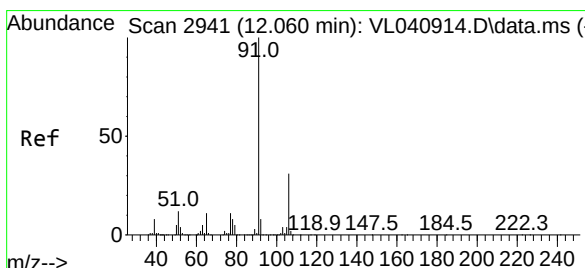
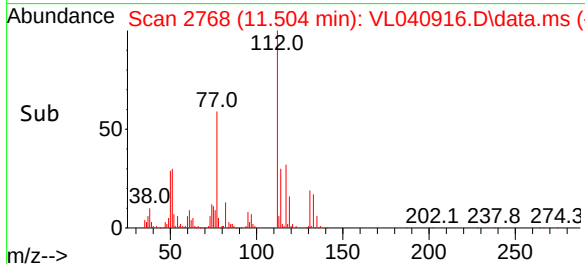
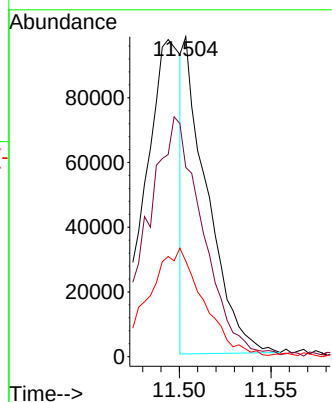
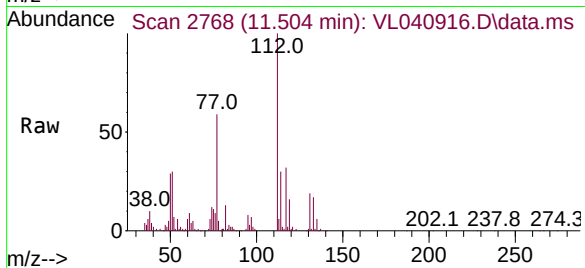
Tgt Ion:112 Resp: 88571

Ion Ratio Lower Upper

112 100

77 59.3 52.7 79.1

114 29.4 28.4 34.7



#58

Ethyl Benzene

Concen: 1.081 ppbv

RT: 12.060 min Scan# 2941

Delta R.T. 0.000 min

Lab File: VL040916.D

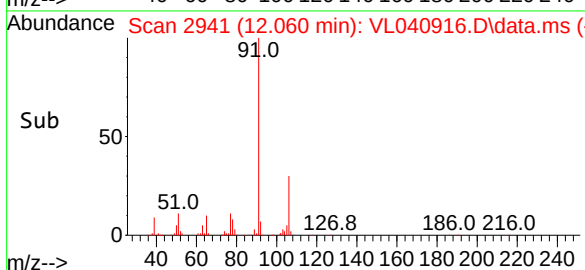
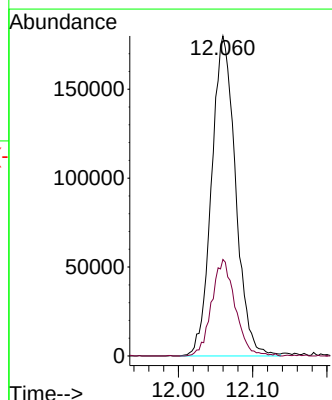
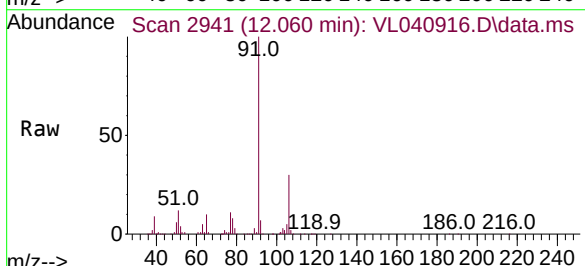
Acq: 20 Dec 2023 12:25

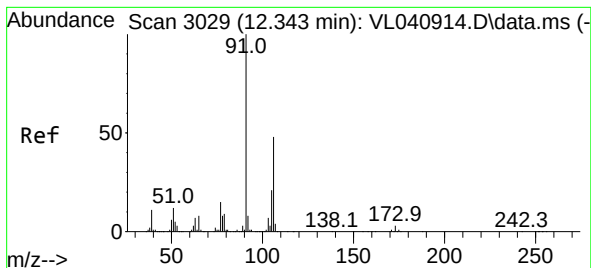
Tgt Ion: 91 Resp: 403837

Ion Ratio Lower Upper

91 100

106 30.2 24.9 37.3

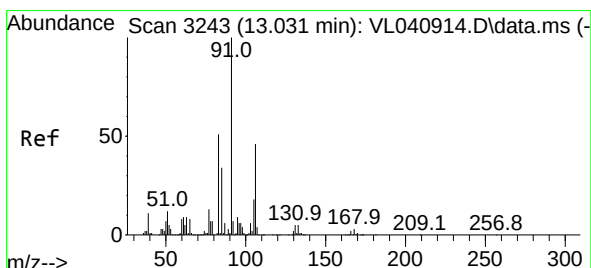
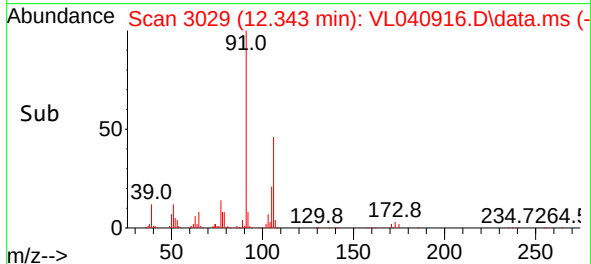
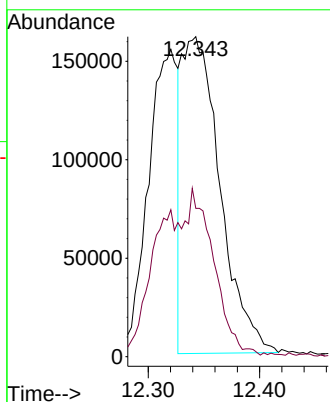
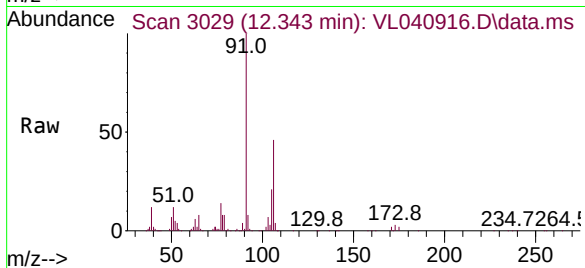




#59
m/p-Xylene
Concen: 1.206 ppbv
RT: 12.343 min Scan# 3029
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

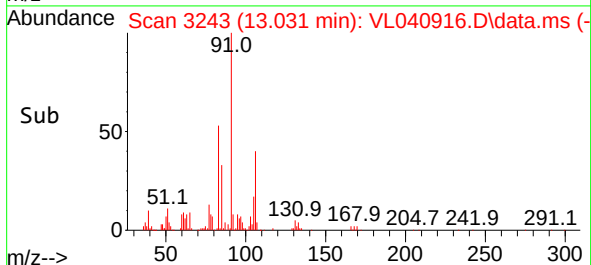
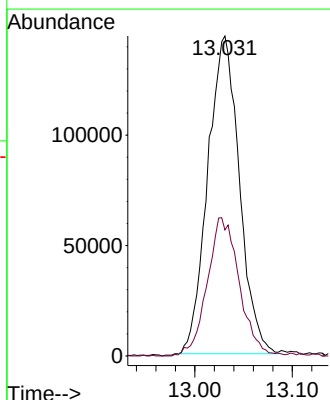
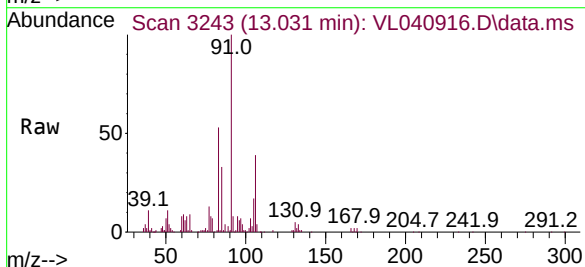
Instrument :
MSVOA_L
ClientSampleId :

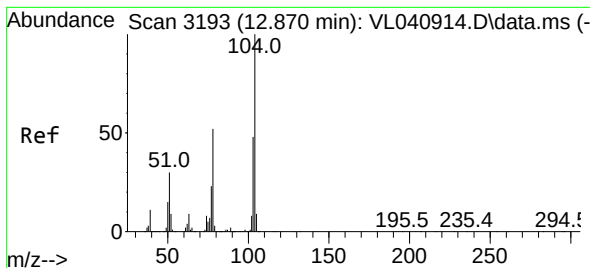
Tgt Ion: 91 Resp: 383117
Ion Ratio Lower Upper
91 100
106 77.7 0.0 0.0#



#60
o-Xylene
Concen: 1.084 ppbv
RT: 13.031 min Scan# 3243
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 91 Resp: 324412
Ion Ratio Lower Upper
91 100
106 44.5 22.6 67.7





#61

Styrene

Concen: 0.992 ppbv

RT: 12.870 min Scan# 3193

Delta R.T. 0.000 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :

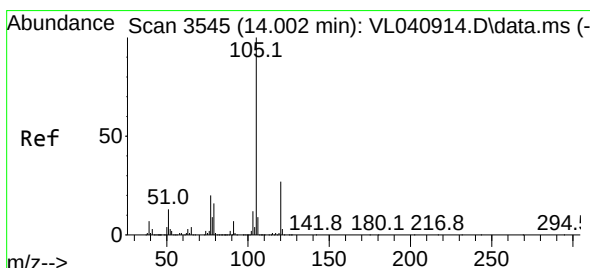
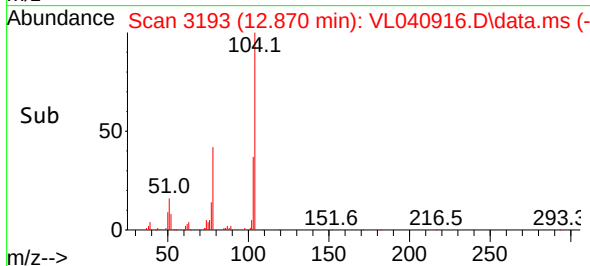
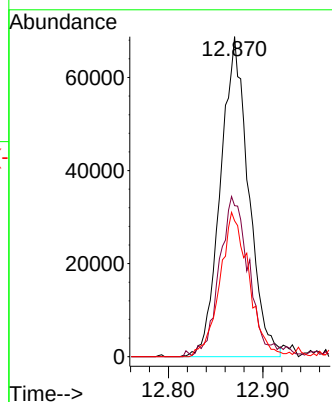
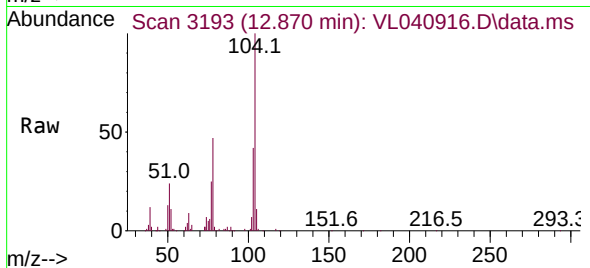
Tgt Ion:104 Resp: 141707

Ion Ratio Lower Upper

104 100

78 54.1 43.0 64.4

103 47.8 37.6 56.4



#62

Isopropylbenzene

Concen: 1.076 ppbv

RT: 14.002 min Scan# 3545

Delta R.T. 0.000 min

Lab File: VL040916.D

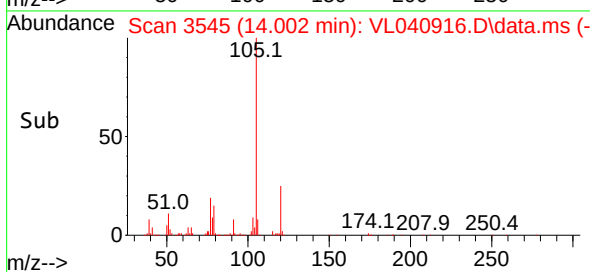
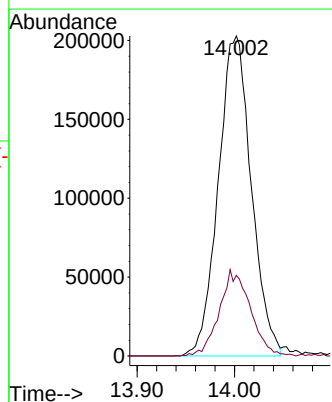
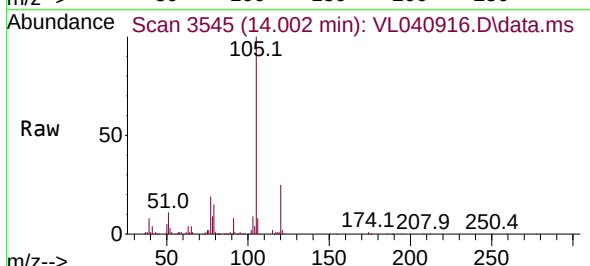
Acq: 20 Dec 2023 12:25

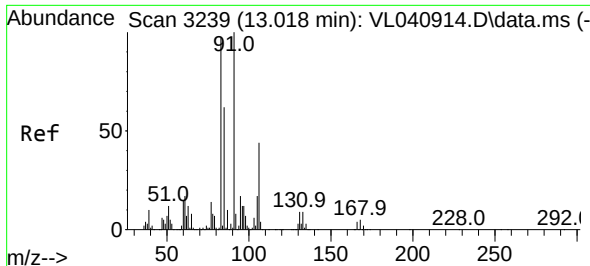
Tgt Ion:105 Resp: 477758

Ion Ratio Lower Upper

105 100

120 25.5 20.7 31.1





#63

1,1,2,2-Tetrachloroethane

Concen: 0.601 ppbv

RT: 13.015 min Scan# 31

Delta R.T. -0.003 min

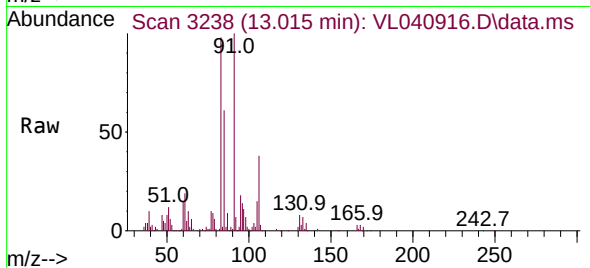
Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :



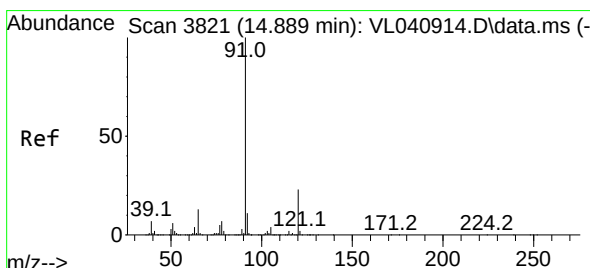
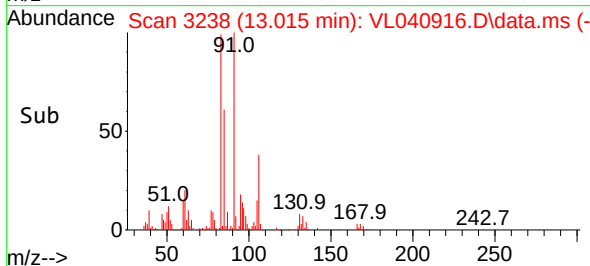
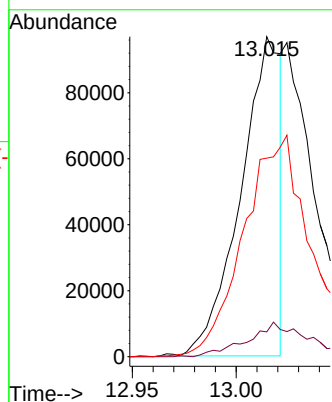
Tgt Ion: 83 Resp: 129252

Ion Ratio Lower Upper

83 100

131 17.2 4.7 14.0#

85 0.0 32.6 98.0#



#64

n-propylbenzene

Concen: 0.524 ppbv

RT: 14.889 min Scan# 3821

Delta R.T. 0.000 min

Lab File: VL040916.D

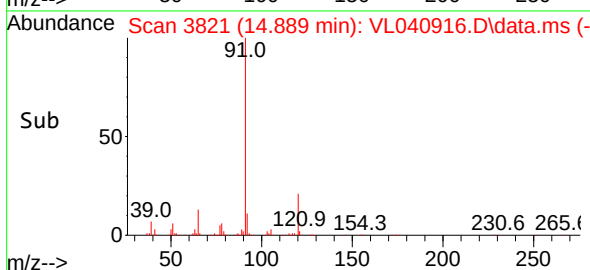
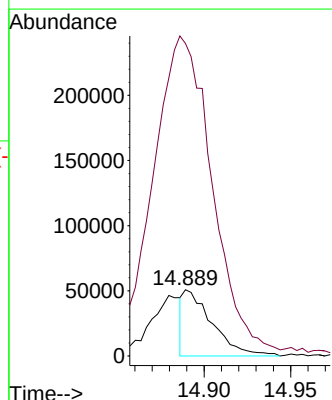
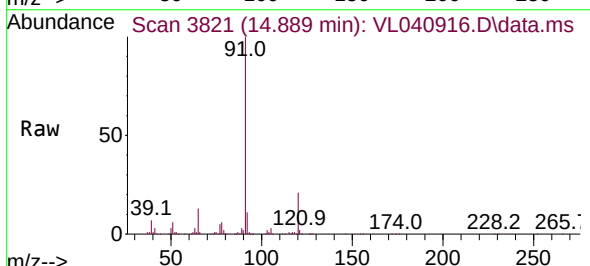
Acq: 20 Dec 2023 12:25

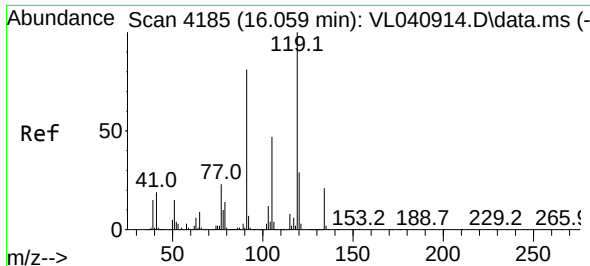
Tgt Ion:120 Resp: 58738

Ion Ratio Lower Upper

120 100

91 1028.2 381.9 572.9#

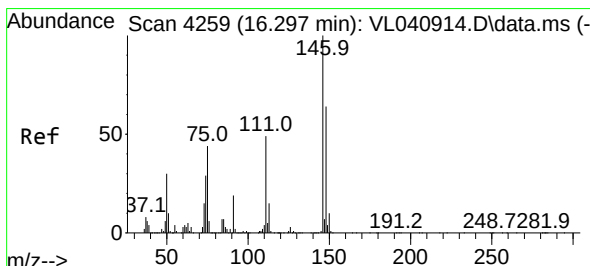
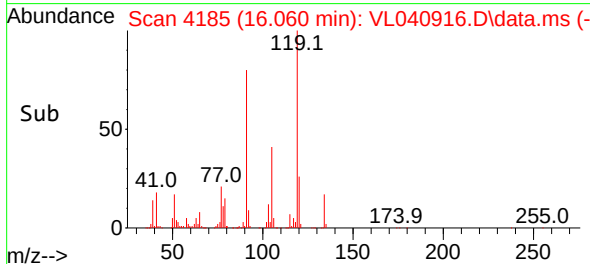
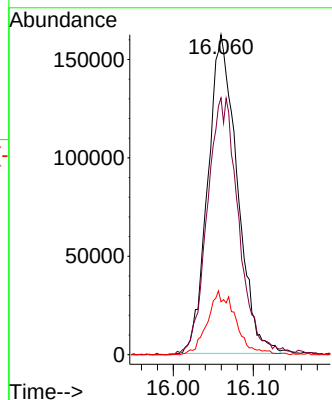
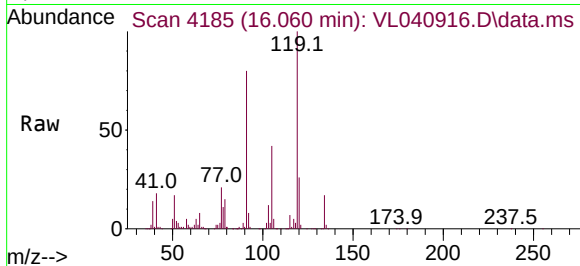




#65
tert-Butylbenzene
Concen: 1.077 ppbv
RT: 16.060 min Scan# 4185
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

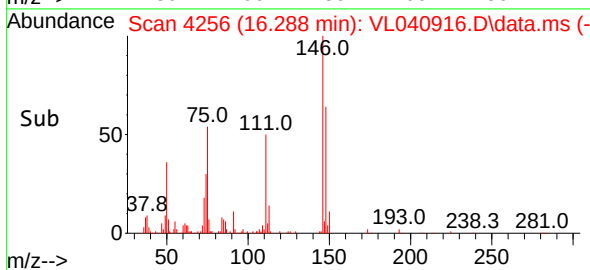
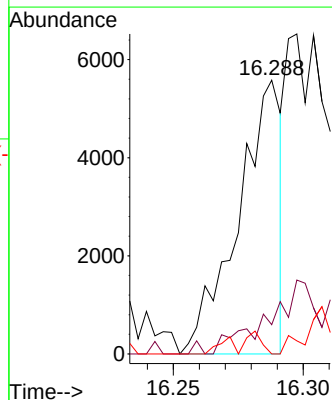
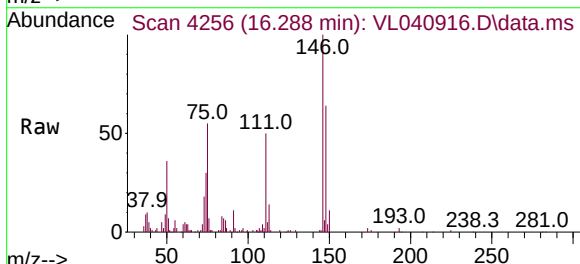
Instrument :
MSVOA_L
ClientSampleId :

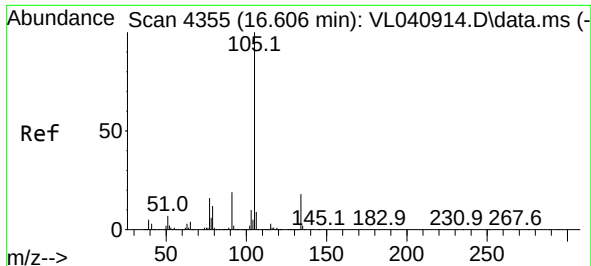
Tgt Ion:119 Resp: 413081
Ion Ratio Lower Upper
119 100
91 87.1 67.2 100.8
134 19.5 15.8 23.6



#66
Benzyl Chloride
Concen: 0.248 ppbv
RT: 16.288 min Scan# 4256
Delta R.T. -0.009 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 91 Resp: 6432
Ion Ratio Lower Upper
91 100
126 0.0 14.1 21.1#
128 5.1 4.6 6.8

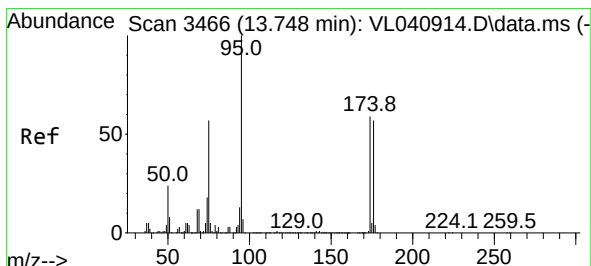
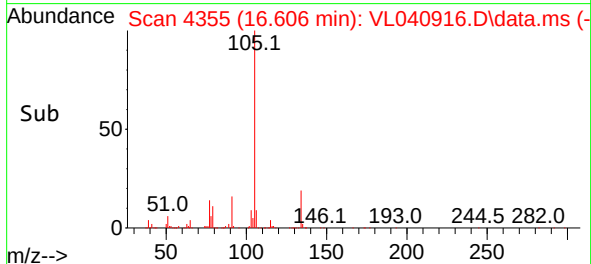
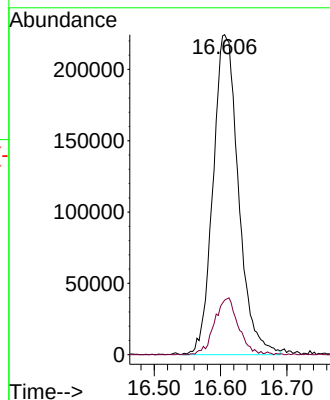
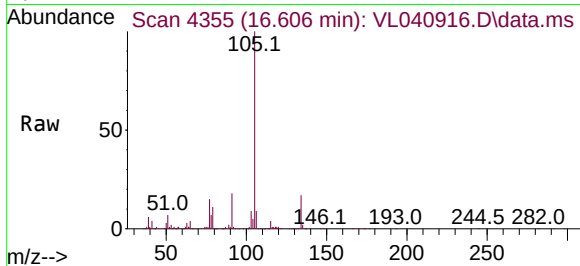




#67
 sec-Butylbenzene
 Concen: 1.092 ppbv
 RT: 16.606 min Scan# 4355
 Delta R.T. 0.000 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

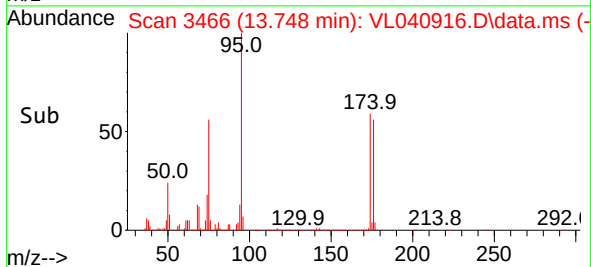
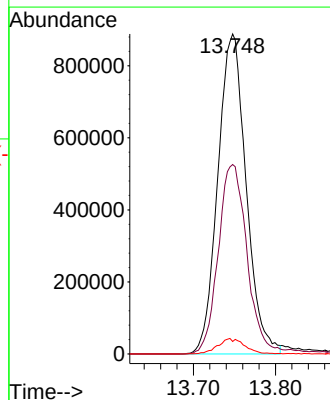
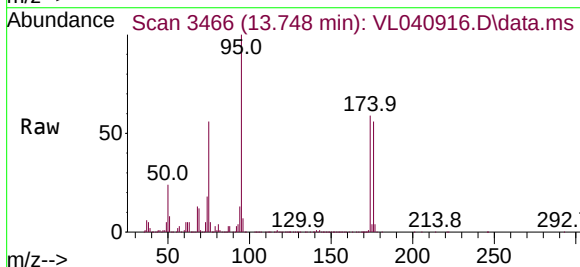
Instrument :
 MSVOA_L
 ClientSampleId :

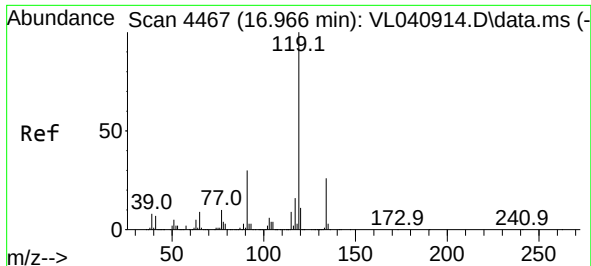
Tgt Ion:105 Resp: 598744
 Ion Ratio Lower Upper
 105 100
 134 16.8 14.4 21.6



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.943 ppbv
 RT: 13.748 min Scan# 3466
 Delta R.T. 0.000 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

Tgt Ion: 95 Resp: 2129885
 Ion Ratio Lower Upper
 95 100
 174 62.0 48.0 72.0
 175 4.7 3.7 5.5

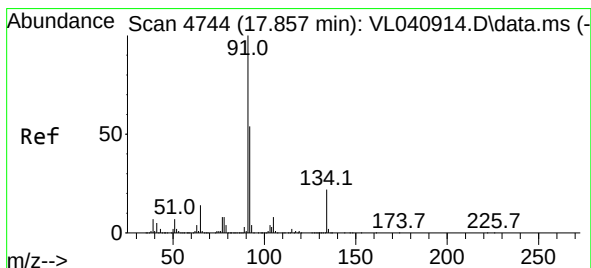
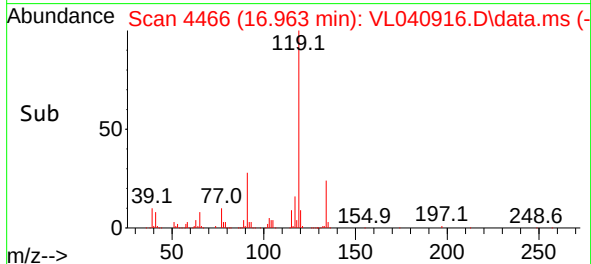
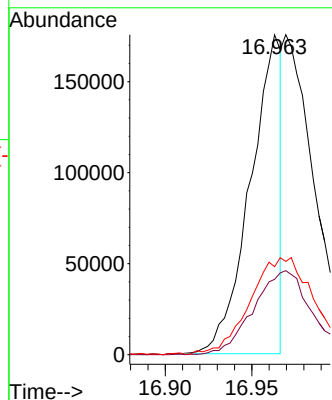
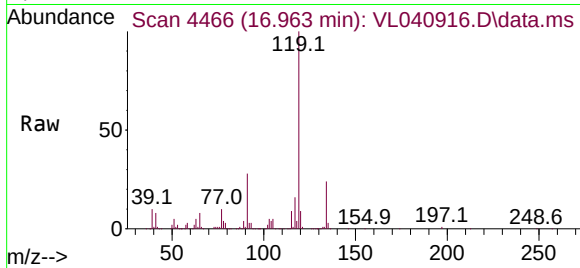




#69
p-Isopropyltoluene
Concen: 0.510 ppbv
RT: 16.963 min Scan# 4466
Delta R.T. -0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

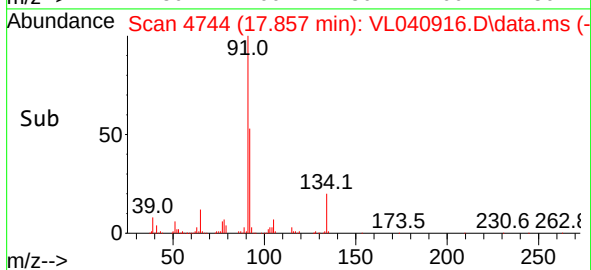
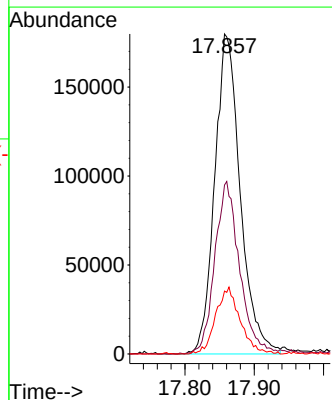
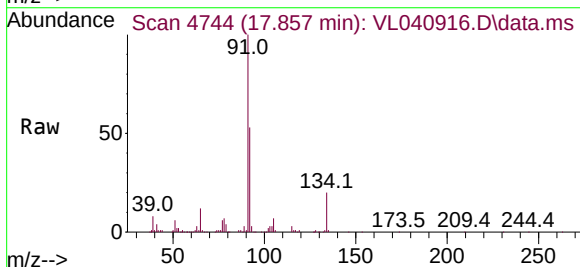
Instrument :
MSVOA_L
ClientSampleId :

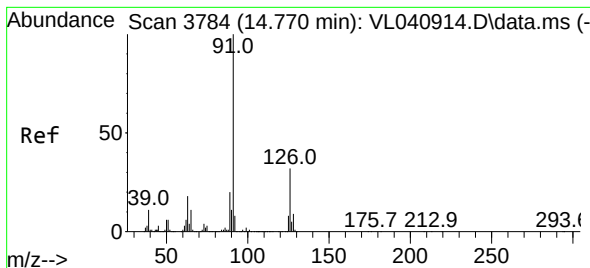
Tgt Ion:119 Resp: 217174
Ion Ratio Lower Upper
119 100
134 0.0 20.3 30.5#
91 0.0 24.1 36.1#



#70
n-Butylbenzene
Concen: 1.042 ppbv
RT: 17.857 min Scan# 4744
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 91 Resp: 460975
Ion Ratio Lower Upper
91 100
92 53.0 43.4 65.0
134 20.0 17.6 26.4

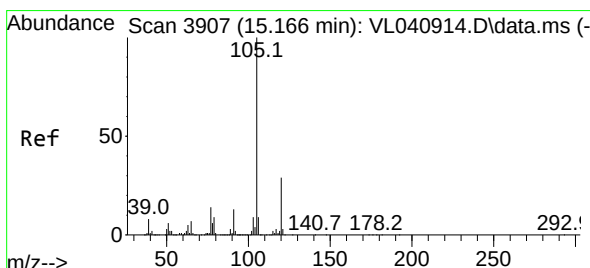
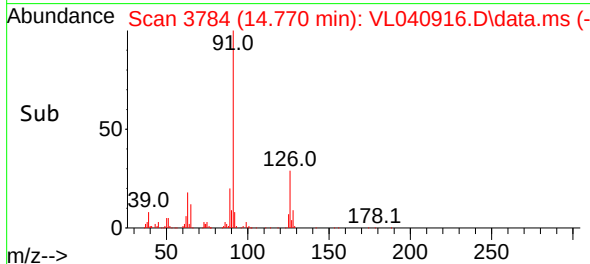
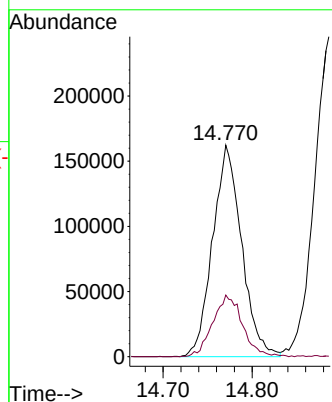
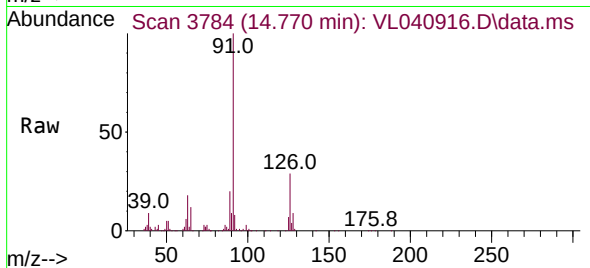




#71
2-Chlorotoluene
Concen: 1.072 ppbv
RT: 14.770 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

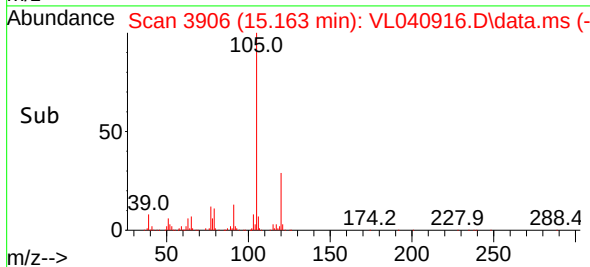
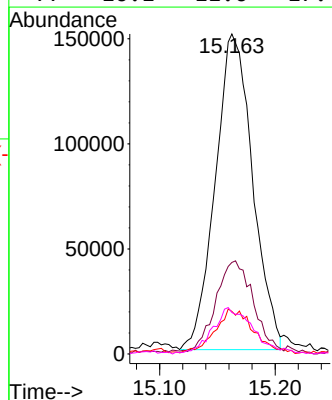
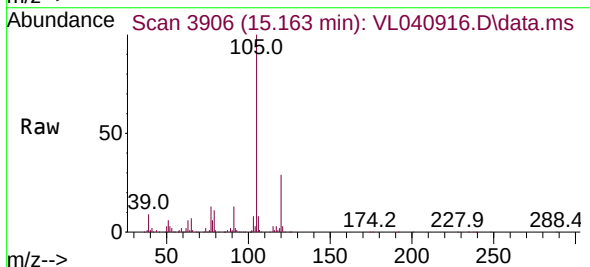
Instrument :
MSVOA_L
ClientSampleId :

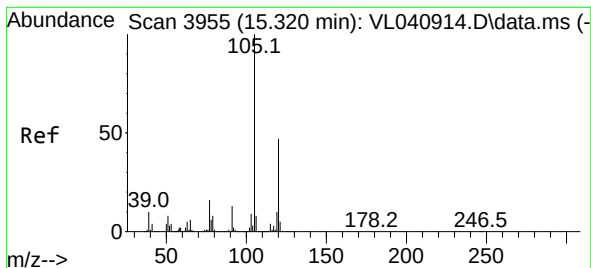
Tgt Ion: 91 Resp: 366417
Ion Ratio Lower Upper
91 100
126 29.8 12.4 49.6



#72
4-Ethyltoluene
Concen: 1.027 ppbv
RT: 15.163 min Scan# 3906
Delta R.T. -0.003 min
Lab File: VL040916.D
Acq: 20 Dec 2023 12:25

Tgt Ion: 105 Resp: 337313
Ion Ratio Lower Upper
105 100
120 32.0 23.8 35.8
91 14.3 10.9 16.3
77 16.1 11.6 17.4





#73

1,3,5-Trimethylbenzene

Concen: 1.018 ppbv

RT: 15.323 min Scan# 3955

Delta R.T. 0.003 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

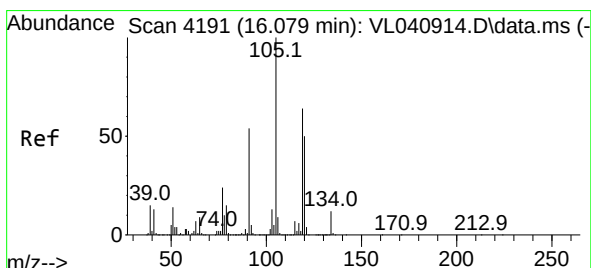
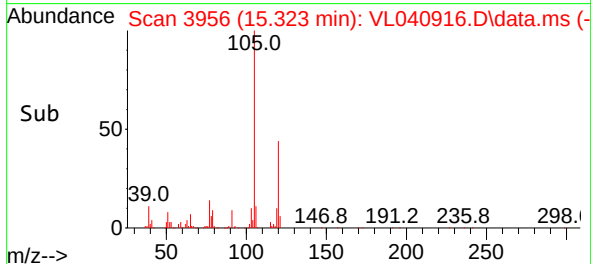
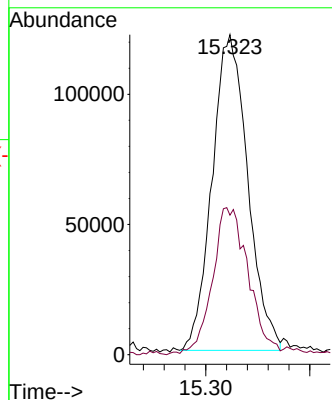
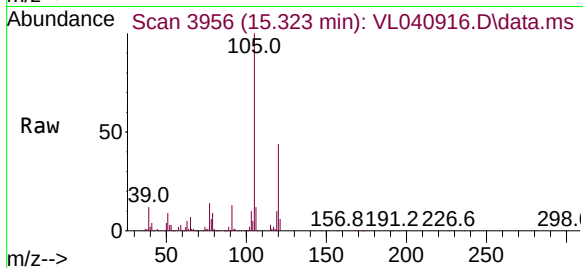
ClientSampleId :

Tgt Ion:105 Resp: 288738

Ion Ratio Lower Upper

105 100

120 43.8 37.8 56.8



#74

1,2,4-Trimethylbenzene

Concen: 1.030 ppbv

RT: 16.076 min Scan# 4190

Delta R.T. -0.003 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Tgt Ion:105 Resp: 325070

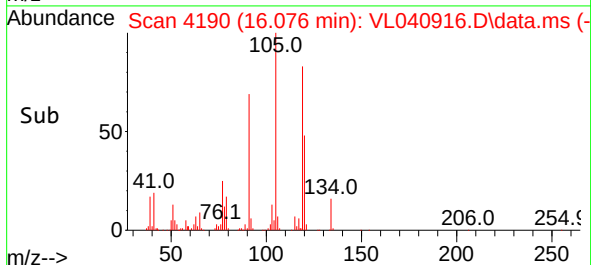
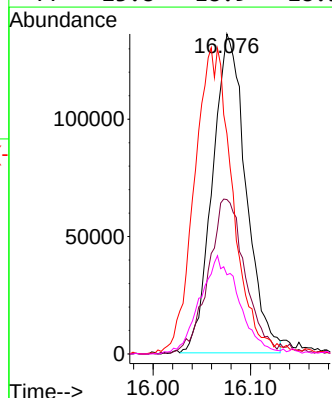
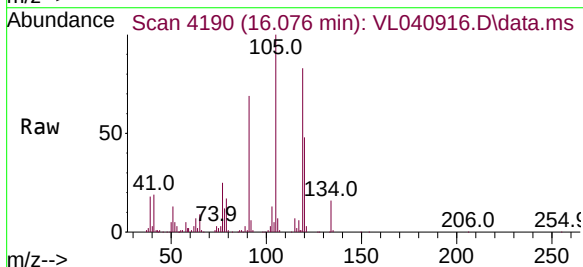
Ion Ratio Lower Upper

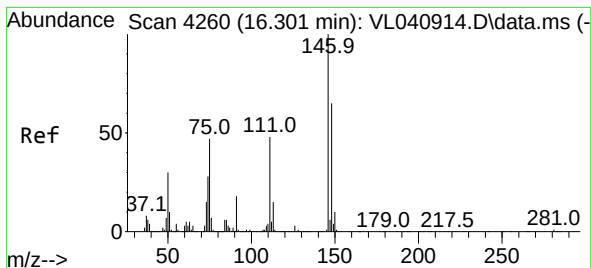
105 100

120 46.6 40.2 60.4

91 66.8 43.0 64.6#

77 23.8 18.9 28.3





#75

1,3-Dichlorobenzene

Concen: 1.007 ppbv

RT: 16.301 min Scan# 4260

Delta R.T. 0.000 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :

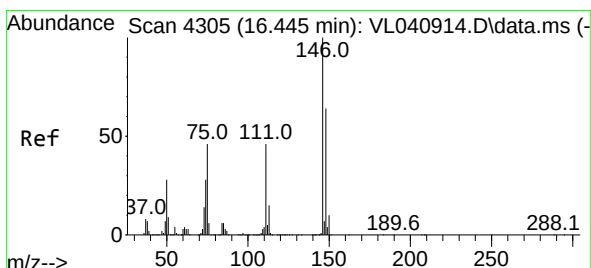
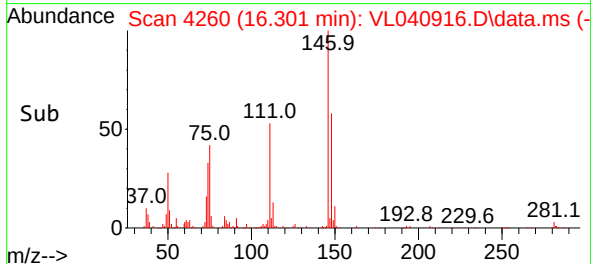
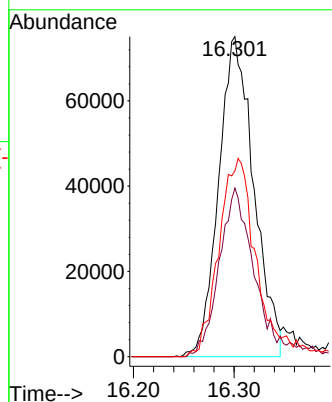
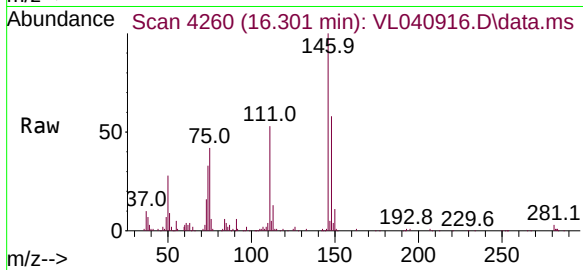
Tgt Ion:146 Resp: 182110

Ion Ratio Lower Upper

146 100

111 54.0 24.7 74.1

148 66.8 32.1 96.5



#76

1,4-Dichlorobenzene

Concen: 0.566 ppbv

RT: 16.445 min Scan# 4305

Delta R.T. 0.000 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

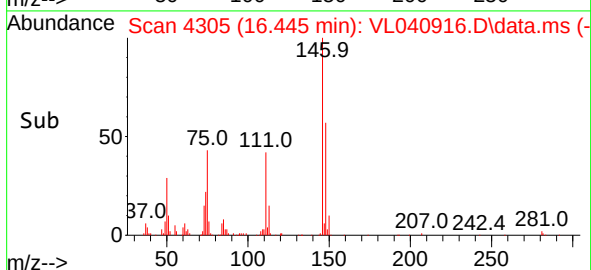
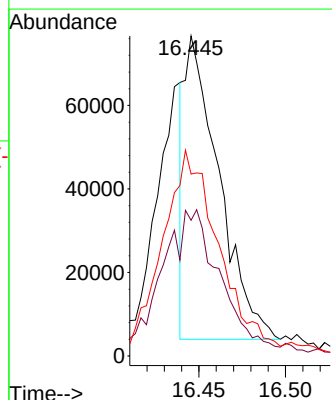
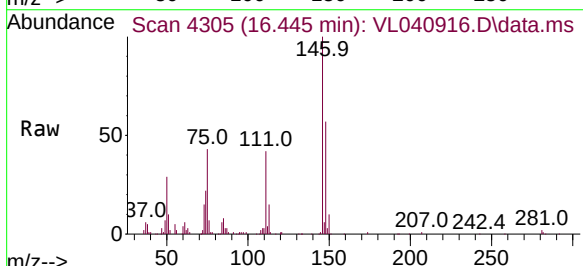
Tgt Ion:146 Resp: 99944

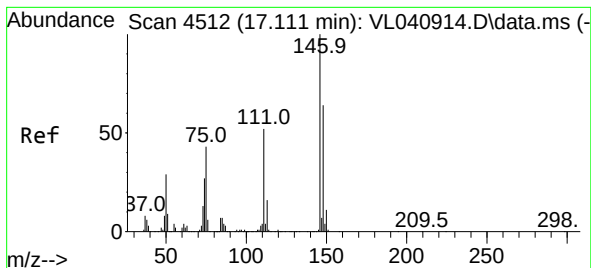
Ion Ratio Lower Upper

146 100

111 89.0 24.1 72.4#

148 118.6 33.2 99.6#





#77

1,2-Dichlorobenzene

Concen: 0.984 ppbv

RT: 17.117 min Scan# 4512

Delta R.T. 0.007 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :

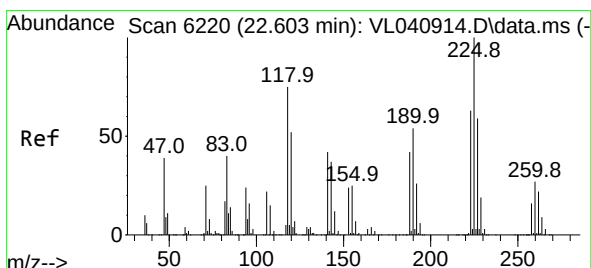
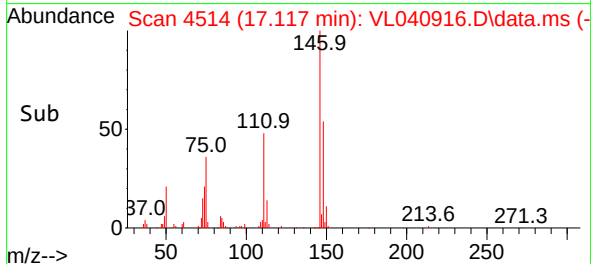
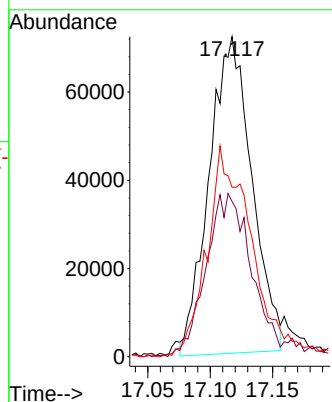
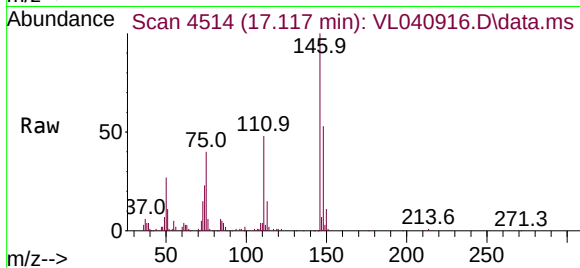
Tgt Ion:146 Resp: 171685

Ion Ratio Lower Upper

146 100

111 58.2 25.5 76.5

148 70.9 32.2 96.6



#78

Hexachloro-1,3-Butadiene

Concen: 1.147 ppbv

RT: 22.603 min Scan# 6220

Delta R.T. 0.000 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

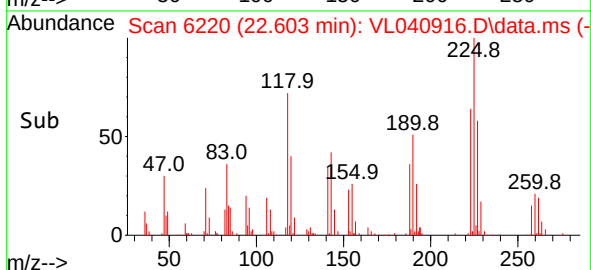
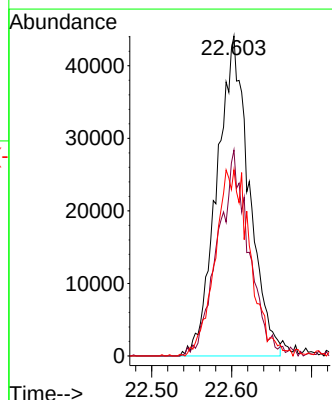
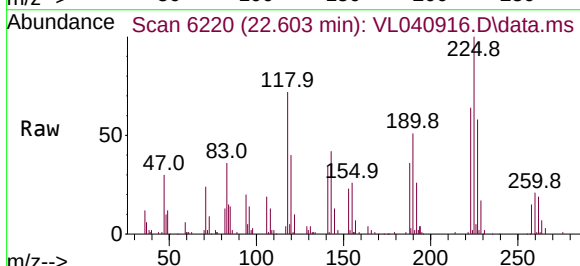
Tgt Ion:225 Resp: 124187

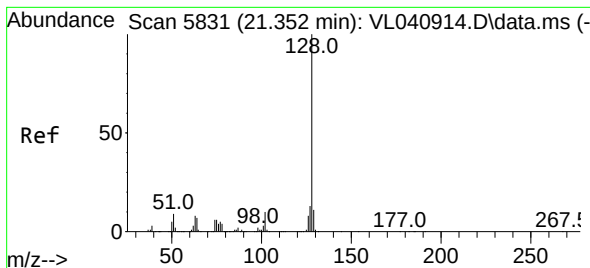
Ion Ratio Lower Upper

225 100

223 62.5 51.5 77.3

227 63.7 51.7 77.5





#79

Naphthalene

Concen: 0.896 ppbv

RT: 21.362 min Scan# 5834

Delta R.T. 0.010 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

Instrument :

MSVOA_L

ClientSampleId :

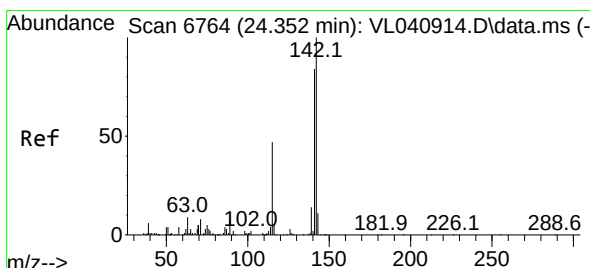
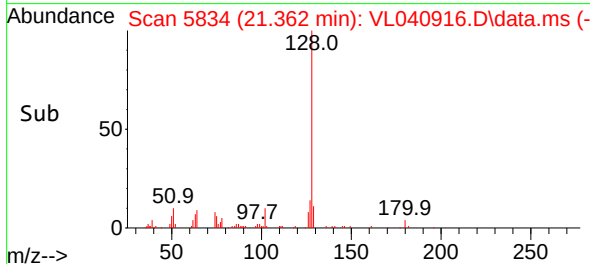
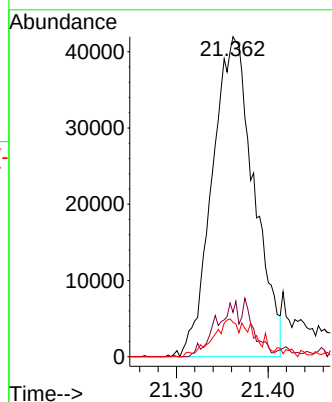
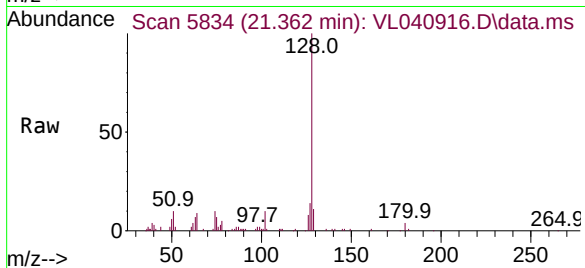
Tgt Ion:128 Resp: 132316

Ion Ratio Lower Upper

128 100

127 13.8 10.6 15.8

129 10.7 8.7 13.1



#80

Naphthalene,2-methyl-

Concen: 0.028 ppbv

RT: 24.760 min Scan# 6891

Delta R.T. 0.409 min

Lab File: VL040916.D

Acq: 20 Dec 2023 12:25

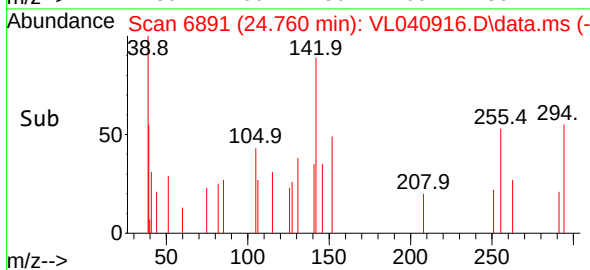
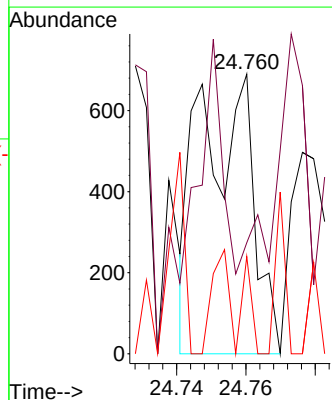
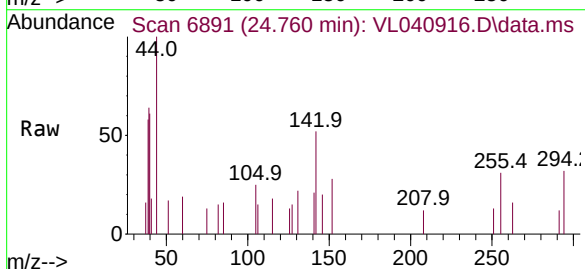
Tgt Ion:142 Resp: 725

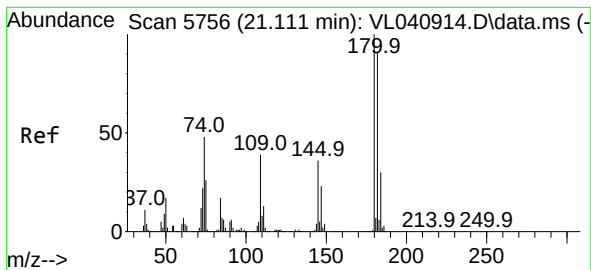
Ion Ratio Lower Upper

142 100

141 85.2 68.5 102.7

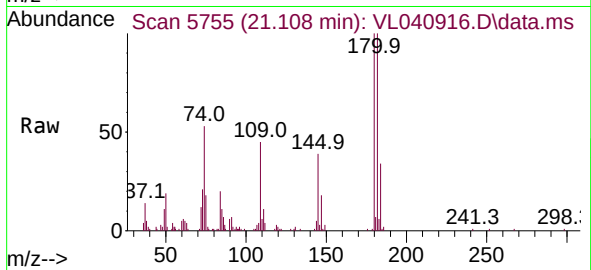
115 36.7 34.5 51.7





#81
 1,2,4-Trichlorobenzene
 Concen: 0.369 ppbv
 RT: 21.108 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL040916.D
 Acq: 20 Dec 2023 12:25

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:180 Resp: 32609
 Ion Ratio Lower Upper
 180 100
 182 253.7 79.4 119.0#
 184 0.0 24.5 36.7#

