

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111323\
 Data File : VL040834.D
 Acq On : 13 Nov 2023 10:06
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Nov 22 00:29:54 2023

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Mon Nov 20 03:50:24 2023

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.169	49	993904	10.000	ppbv	-0.04
33) 1,4-Difluorobenzene	6.626	114	3010529	10.000	ppbv	-0.04
55) Chlorobenzene-d5	11.433	117	2704979	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.744 95 2147399 10.140 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.713	85	127734	0.634	ppbv	94
3) Chlorodifluoromethane	2.661	51	103501	0.652	ppbv	98
4) Chloromethane	2.838	50	12690	0.222	ppbv #	48
6) Bromomethane	3.134	94	872	0.040	ppbv #	4
7) Chloroethane	3.205	64	684	0.035	ppbv #	1
8) Dichlorotetrafluoroethane	2.838	85	92126	0.633	ppbv	99
9) Propene	2.677	41	33081	0.619	ppbv	96
10) Heptane	7.555	43	78117	0.594	ppbv	99
11) Trichlorofluoromethane	3.542	101	96524	0.623	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.044	101	70202	0.638	ppbv	98
13) Ethanol	3.256	45	1460	0.141	ppbv #	100
14) Bromoethene	3.378	108	2047	0.046	ppbv #	7
15) Acetone	3.465	43	65472	0.619	ppbv #	89
17) tert-Butyl alcohol	3.877	59	59368	0.656	ppbv #	94
18) 1,1-Dichloroethene	3.857	96	28884	0.589	ppbv	89
19) Isopropyl Alcohol	3.581	45	27110	0.426	ppbv #	94
20) Methylene Chloride	3.938	84	1881	0.043	ppbv #	33
21) Allyl Chloride	3.970	41	37940	0.560	ppbv	86
22) trans-1,2-Dichloroethene	4.423	96	29121	0.523	ppbv	90
23) Vinyl Acetate	4.613	43	64567	0.472	ppbv #	96
24) 1,1-Dichloroethane	4.542	63	63821	0.524	ppbv	97
25) Ethyl Acetate	5.189	43	113789	0.519	ppbv #	97
26) Hexane	5.185	57	54093	0.558	ppbv	97
27) Carbon Disulfide	4.105	76	70220	0.571	ppbv	98
28) Methyl tert-Butyl Ether	4.571	73	21506	0.245	ppbv #	36
29) Chloroform	5.246	83	94082	0.572	ppbv	100
30) Cyclohexane	6.552	84	4285	0.051	ppbv #	1
31) cis-1,2-Dichloroethene	5.057	61	48176	0.502	ppbv	95
32) 1,1,1-Trichloroethane	5.973	97	93583	0.610	ppbv	97
34) 2-Butanone	4.780	43	67632	0.441	ppbv	96
35) Carbon Tetrachloride	6.462	117	90811	0.492	ppbv	95
36) Benzene	6.343	78	121022	0.495	ppbv	98
37) 1,2-Dichloroethane	5.783	62	75568	0.524	ppbv	100
38) Trichloroethene	7.262	130	46158	0.486	ppbv	97
39) 1,2-Dichloropropane	7.044	63	50801	0.524	ppbv #	90
41) Tetrahydrofuran	5.536	42	2979	0.032	ppbv #	37
42) Bromodichloromethane	7.221	83	98256	0.476	ppbv #	97
43) Methyl Methacrylate	7.459	69	42808	0.460	ppbv	96
44) 2,2,4-Trimethylpentane	7.298	57	205425	0.506	ppbv	97
45) t-1,3-Dichloropropene	8.667	75	4049	0.074	ppbv	91
46) cis-1,3-Dichloropropene	8.114	75	28118	0.396	ppbv #	83
47) 1,1,2-Trichloroethane	8.883	97	10818	0.107	ppbv	90
48) Dibromochloromethane	9.674	129	40493	0.240	ppbv #	10

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 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

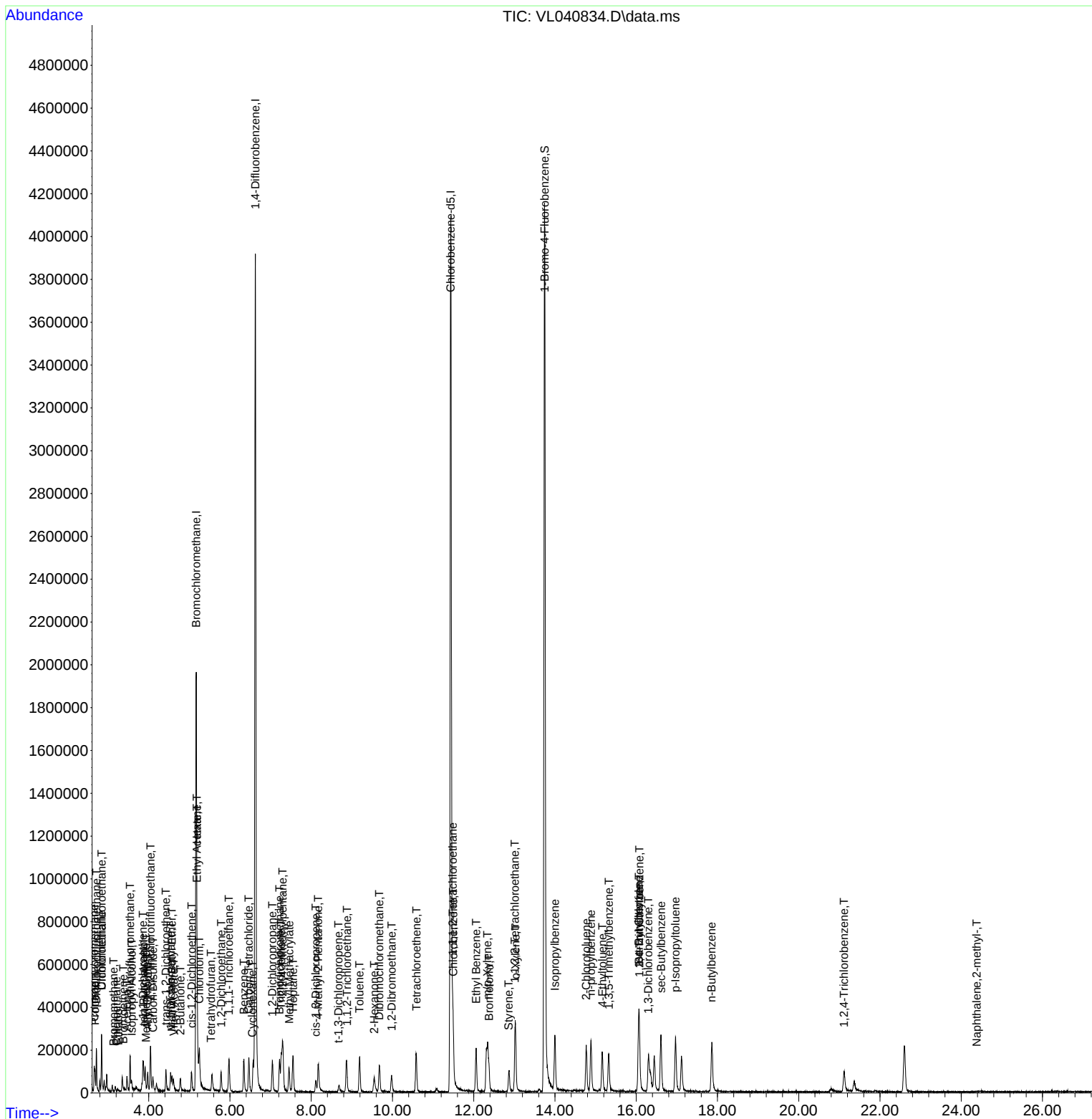
Quant Time: Nov 22 00:29:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 20 03:50:24 2023
 Response via : Initial Calibration

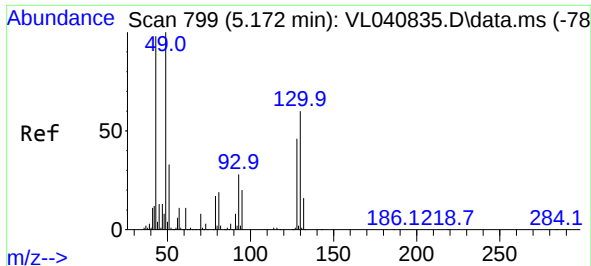
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

49) Bromoform	12.378	173	34964	0.276	ppbv	#	42
50) 4-Methyl-2-Pentanone	8.169	43	115537	0.487	ppbv		100
51) 2-Hexanone	9.548	43	40175	0.240	ppbv	#	48
52) Tetrachloroethene	10.590	164	16543	0.201	ppbv		94
53) Toluene	9.188	91	73138	0.272	ppbv	#	20
54) 1,2-Dibromoethane	9.979	107	62221	0.476	ppbv		83
56) 1,1,1,2-Tetrachloroethane	11.484	131	22430	0.194	ppbv	#	1
57) Chlorobenzene	11.497	112	106305	0.530	ppbv		92
58) Ethyl Benzene	12.060	91	174736	0.495	ppbv		97
59) m/p-Xylene	12.336	91	26044	0.087	ppbv	#	32
60) o-Xylene	13.027	91	143819	0.503	ppbv		97
61) Styrene	12.857	104	23244	0.168	ppbv	#	4
62) Isopropylbenzene	13.998	105	217316	0.514	ppbv		99
63) 1,1,2,2-Tetrachloroethane	13.015	83	52048	0.257	ppbv	#	13
64) n-propylbenzene	14.886	120	28929	0.273	ppbv	#	1
65) tert-Butylbenzene	16.063	119	177684	0.499	ppbv		90
66) Benzyl Chloride	16.066	91	155694	11.855	ppbv	#	63
67) sec-Butylbenzene	16.612	105	266918	0.524	ppbv		99
69) p-Isopropyltoluene	16.966	119	200041	0.493	ppbv		97
70) n-Butylbenzene	17.854	91	80857	0.189	ppbv	#	33
71) 2-Chlorotoluene	14.770	91	164965	0.512	ppbv		96
72) 4-Ethyltoluene	15.166	105	148139	0.471	ppbv	#	96
73) 1,3,5-Trimethylbenzene	15.326	105	133744	0.481	ppbv		97
74) 1,2,4-Trimethylbenzene	16.079	105	143485	0.462	ppbv	#	87
75) 1,3-Dichlorobenzene	16.297	146	46240	0.270	ppbv	#	24
80) Naphthalene,2-methyl-	24.381	142	2067	0.073	ppbv		94
81) 1,2,4-Trichlorobenzene	21.111	180	7482	0.077	ppbv	#	12

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

Quant Time: Nov 22 00:29:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Nov 20 03:50:24 2023
Response via : Initial Calibration

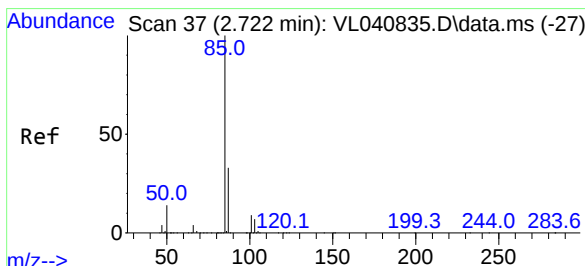
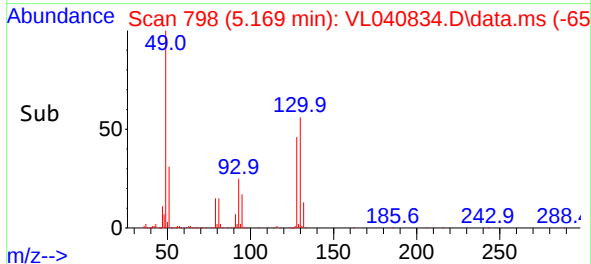
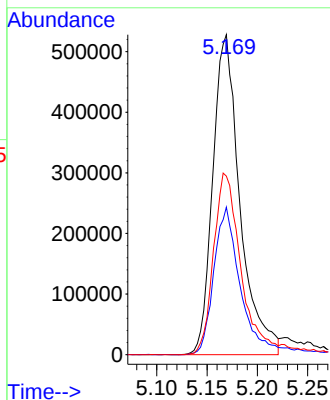
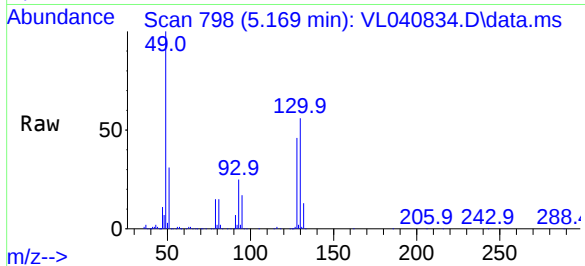




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 79
Delta R.T. -0.042 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

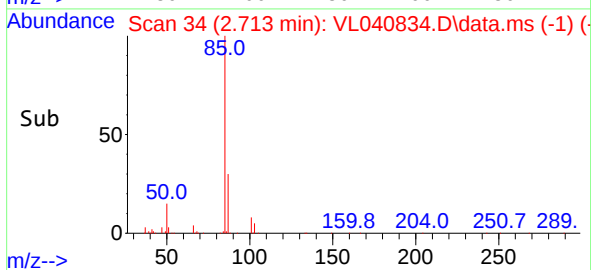
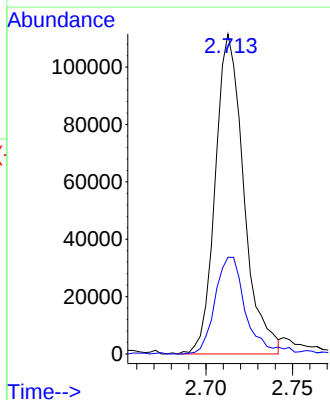
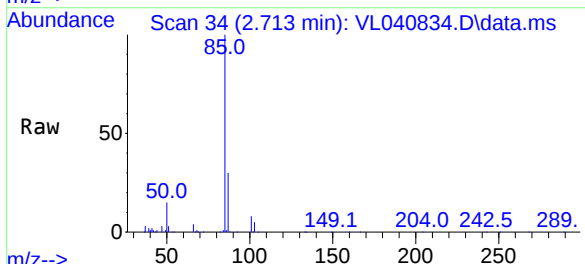
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

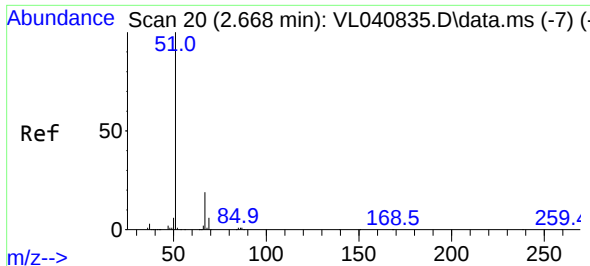
Tgt Ion: 49 Resp: 993904
Ion Ratio Lower Upper
49 100
128 47.2 23.8 71.2
130 60.4 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.634 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.061 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 85 Resp: 127734
Ion Ratio Lower Upper
85 100
87 30.2 26.7 40.1

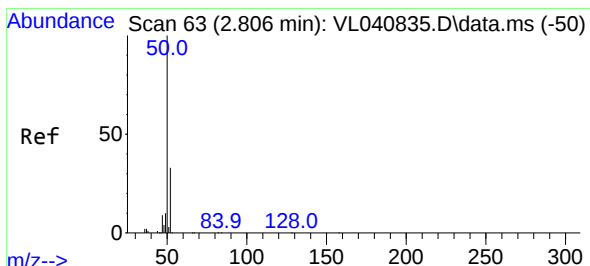
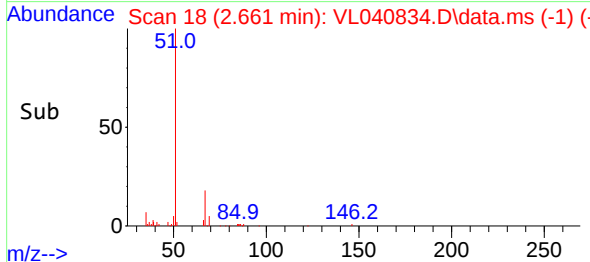
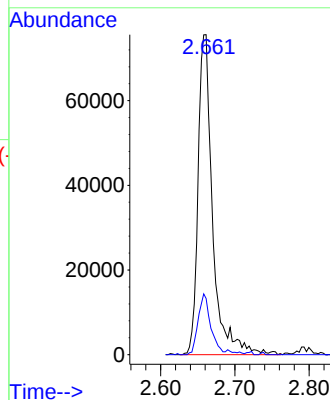
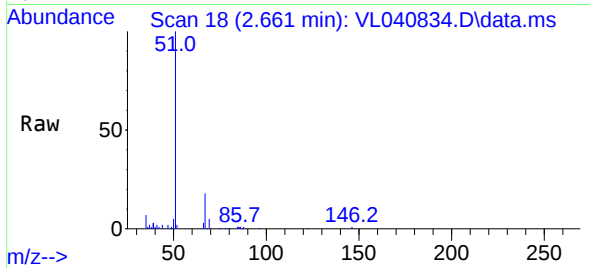




#3
Chlorodifluoromethane
Concen: 0.652 ppbv
RT: 2.661 min Scan# 11
Delta R.T. -0.058 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

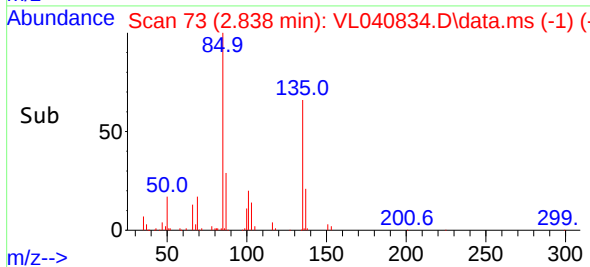
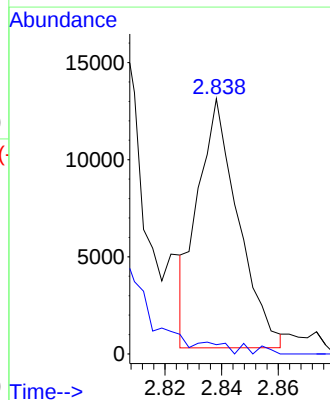
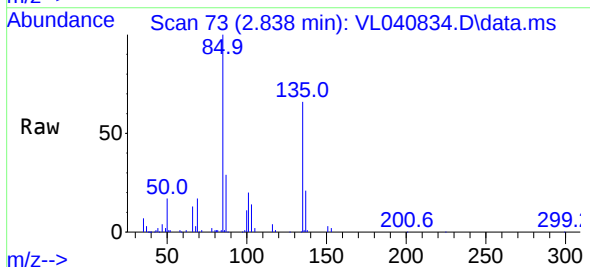
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

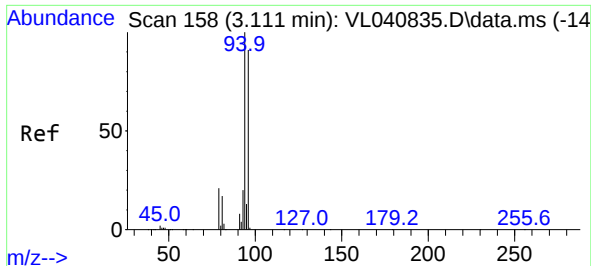
Tgt Ion: 51 Resp: 103501
Ion Ratio Lower Upper
51 100
67 17.8 15.0 22.4



#4
Chloromethane
Concen: 0.222 ppbv
RT: 2.838 min Scan# 73
Delta R.T. -0.016 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 50 Resp: 12690
Ion Ratio Lower Upper
50 100
52 3.9 26.5 39.7#

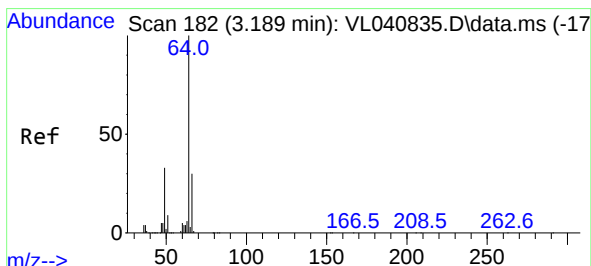
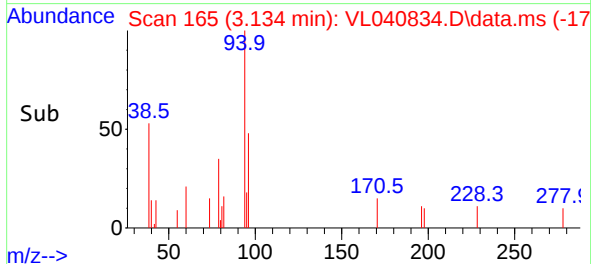
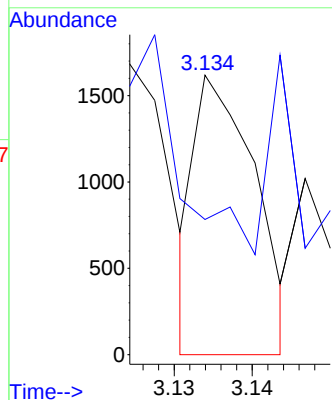
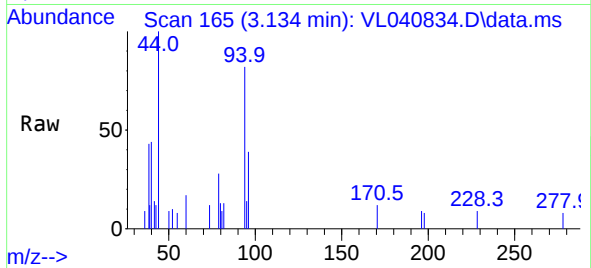




#6
Bromomethane
Concen: 0.040 ppbv
RT: 3.134 min Scan# 11
Delta R.T. -0.023 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

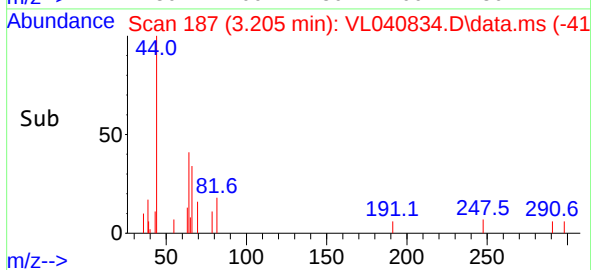
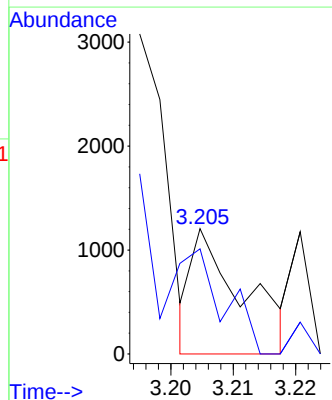
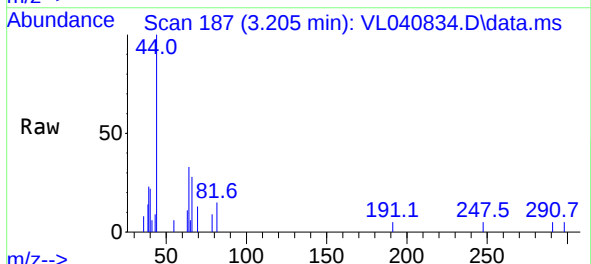
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 94 Resp: 872
Ion Ratio Lower Upper
94 100
96 0.0 73.0 109.4#

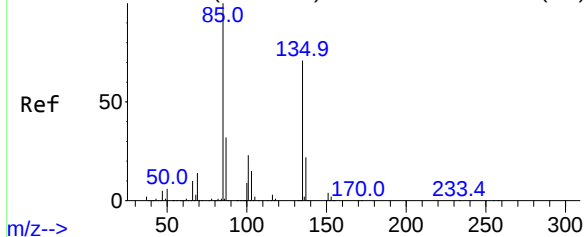


#7
Chloroethane
Concen: 0.035 ppbv
RT: 3.205 min Scan# 187
Delta R.T. -0.029 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 64 Resp: 684
Ion Ratio Lower Upper
64 100
66 84.0 23.8 35.6#



Abundance Scan 77 (2.851 min): VL040835.D\data.ms (-68)

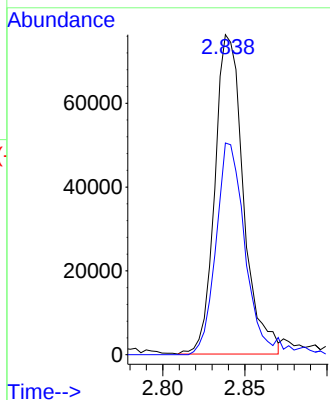
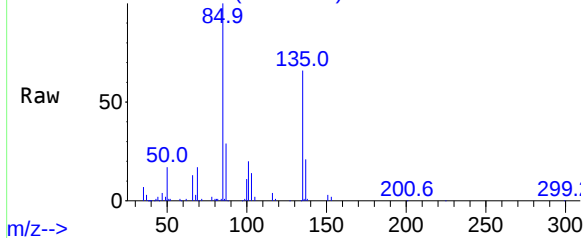


#8
Dichlorotetrafluoroethane
Concen: 0.633 ppbv
RT: 2.838 min Scan# 71
Delta R.T. -0.061 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

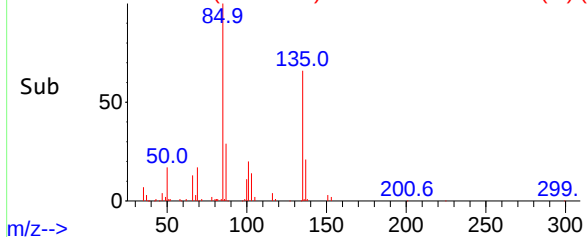
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 85 Resp: 92126
Ion Ratio Lower Upper
85 100
135 70.3 55.3 82.9

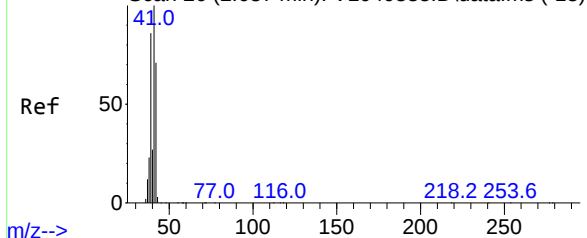
Abundance Scan 73 (2.838 min): VL040834.D\data.ms



Abundance Scan 73 (2.838 min): VL040834.D\data.ms (-1) (-)



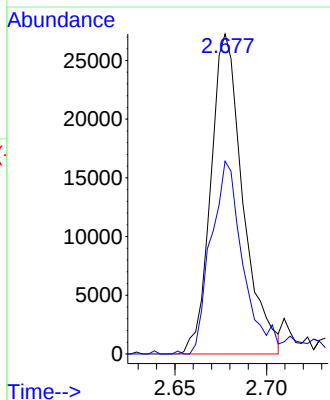
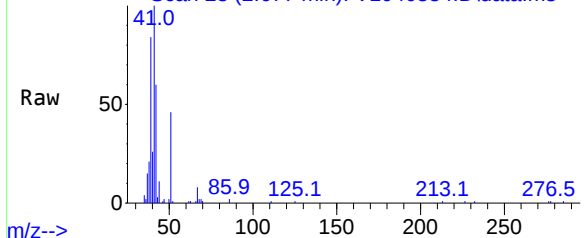
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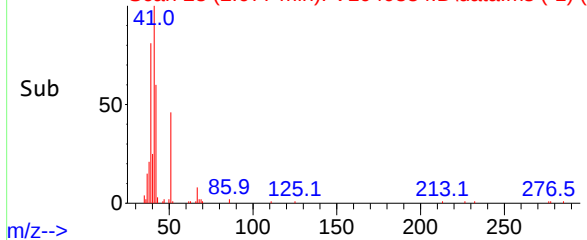
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Propene
Concen: 0.619 ppbv
RT: 2.677 min Scan# 23
Delta R.T. -0.061 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

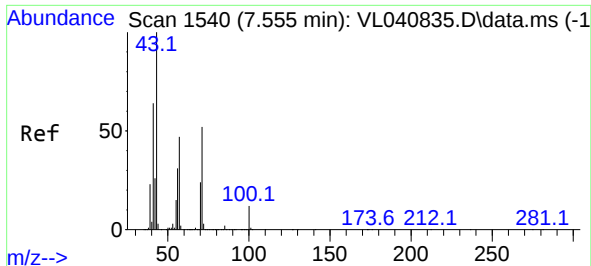
Tgt Ion: 41 Resp: 33081
Ion Ratio Lower Upper
41 100
42 67.6 56.5 84.7

Abundance Scan 23 (2.677 min): VL040834.D\data.ms



Abundance Scan 23 (2.677 min): VL040834.D\data.ms (-1) (-)

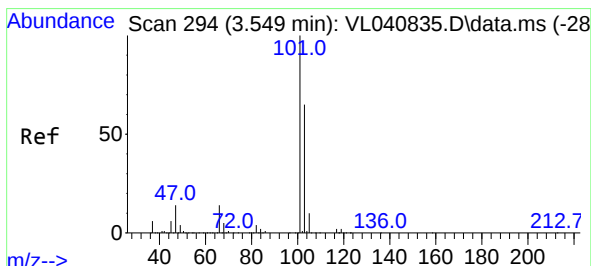
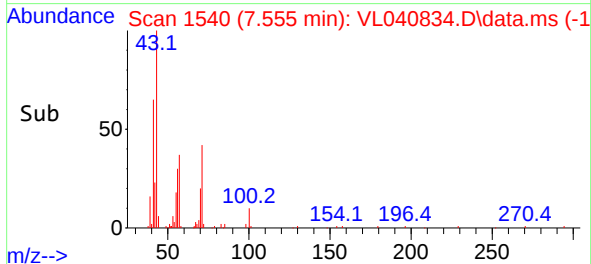
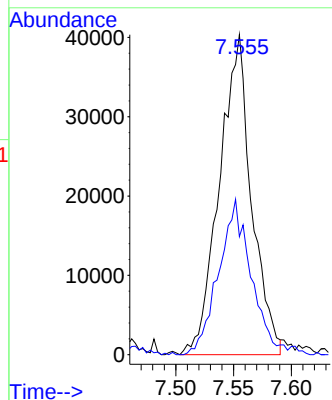
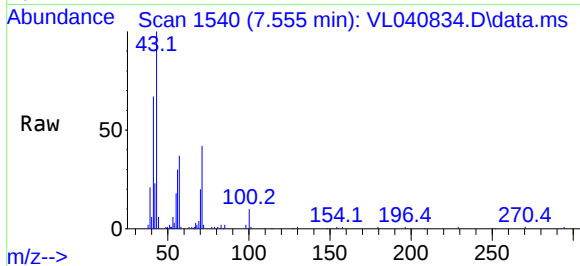




#10
Heptane
Concen: 0.594 ppbv
RT: 7.555 min Scan# 11
Delta R.T. -0.032 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

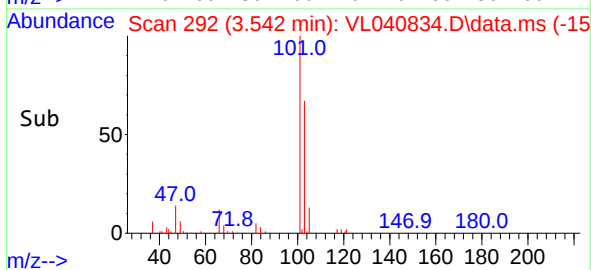
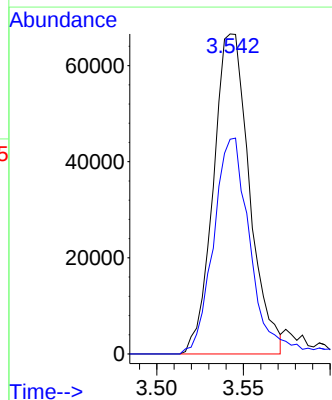
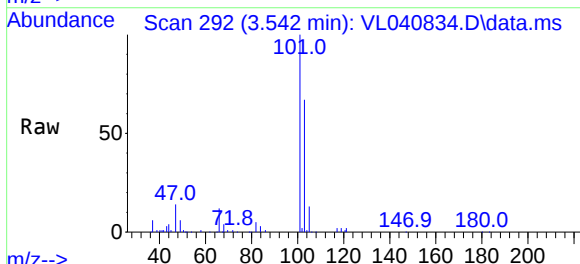
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

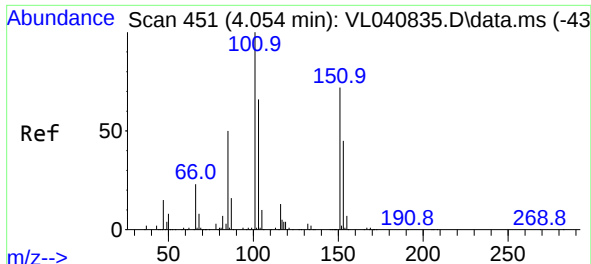
Tgt Ion: 43 Resp: 78117
Ion Ratio Lower Upper
43 100
57 49.9 39.4 59.0



#11
Trichlorofluoromethane
Concen: 0.623 ppbv
RT: 3.542 min Scan# 292
Delta R.T. -0.052 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 101 Resp: 96524
Ion Ratio Lower Upper
101 100
103 67.1 51.8 77.8

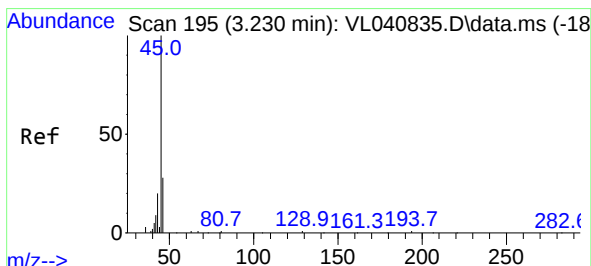
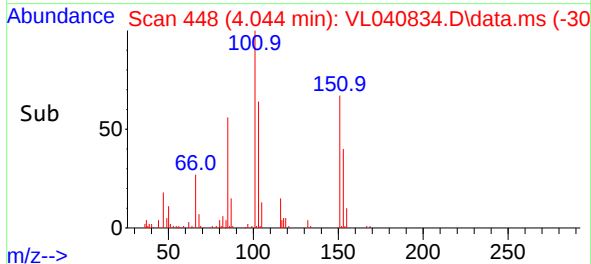
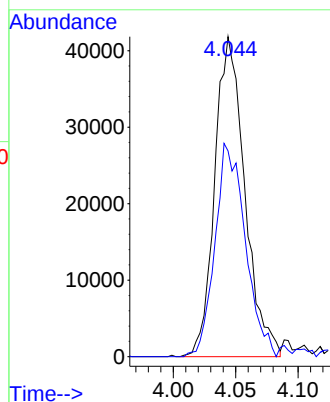
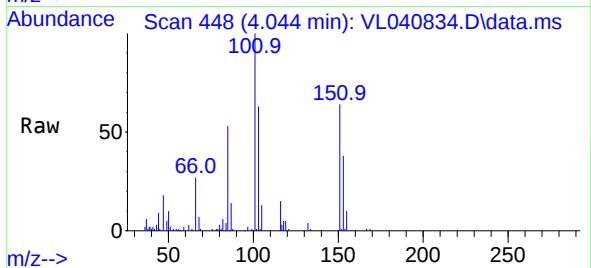




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.638 ppbv
RT: 4.044 min Scan# 448
Delta R.T. -0.052 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

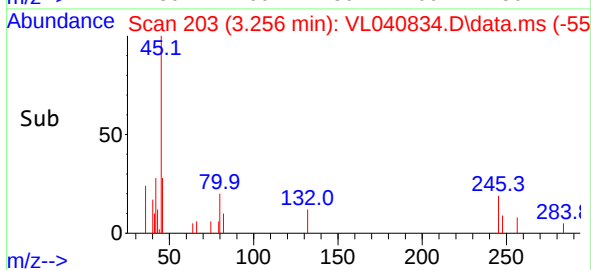
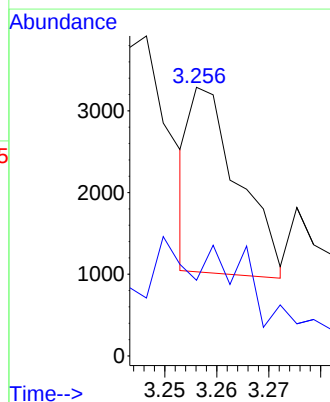
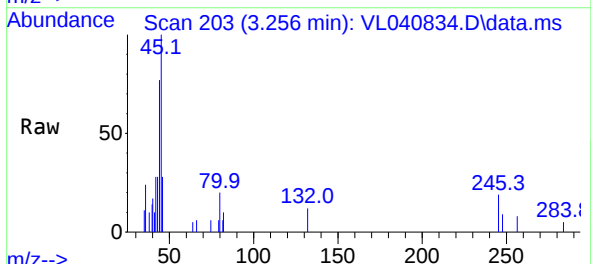
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

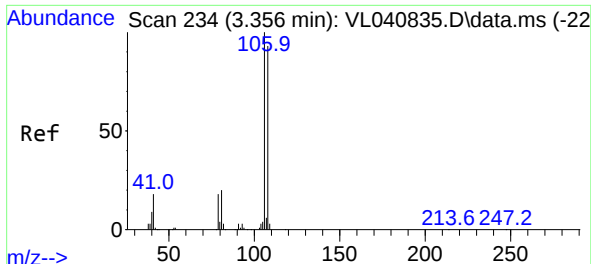
Tgt Ion:101 Resp: 70202
Ion Ratio Lower Upper
101 100
151 70.7 57.8 86.6



#13
Ethanol
Concen: 0.141 ppbv
RT: 3.256 min Scan# 203
Delta R.T. -0.023 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 45 Resp: 1460
Ion Ratio Lower Upper
45 100
46 0.0 0.0 0.0

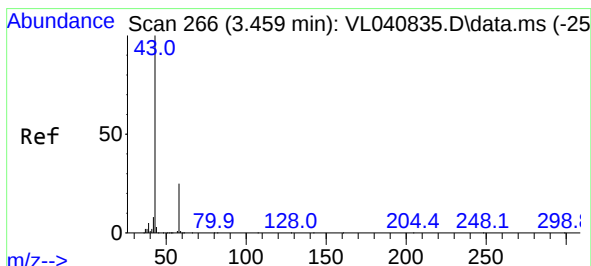
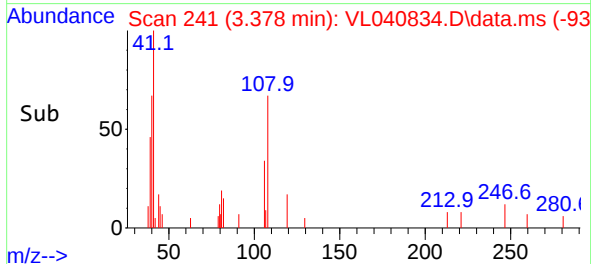
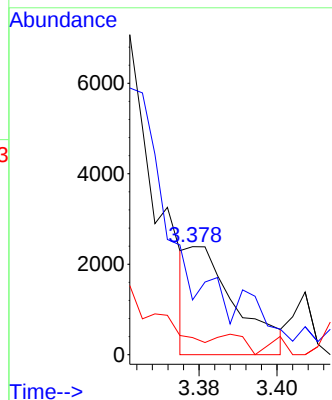
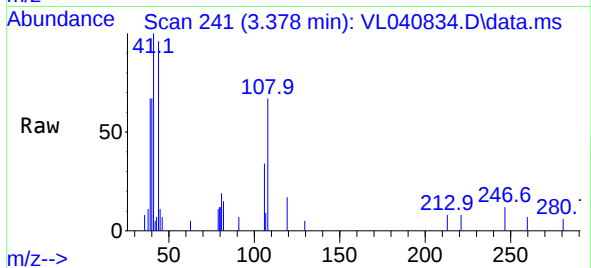




#14
Bromoethene
Concen: 0.046 ppbv
RT: 3.378 min Scan# 241
Delta R.T. -0.023 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

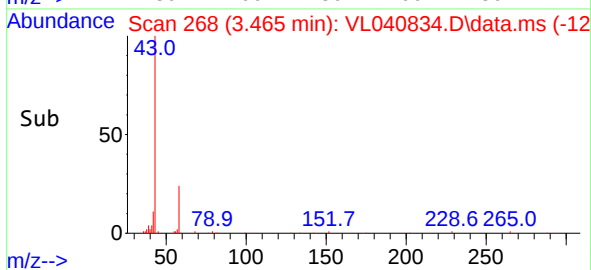
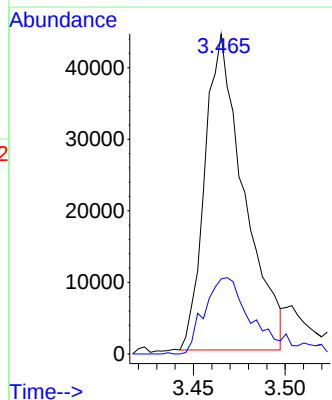
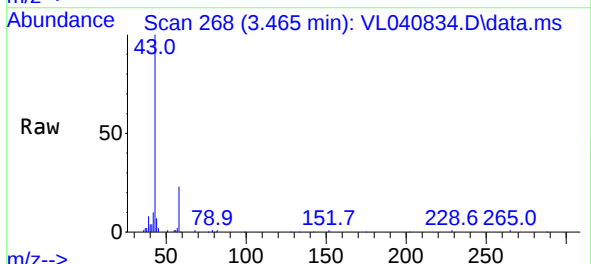
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

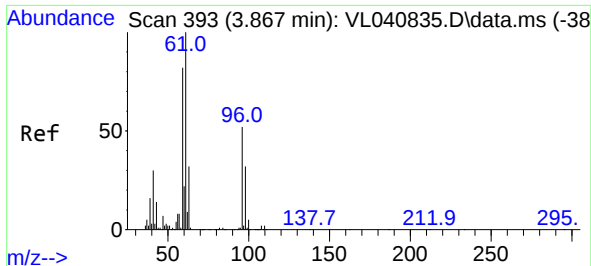
Tgt Ion:108 Resp: 2047
Ion Ratio Lower Upper
108 100
106 0.0 85.4 128.2#
79 0.0 16.7 25.1#



#15
Acetone
Concen: 0.619 ppbv
RT: 3.465 min Scan# 268
Delta R.T. -0.036 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 43 Resp: 65472
Ion Ratio Lower Upper
43 100
58 31.9 20.9 31.3#

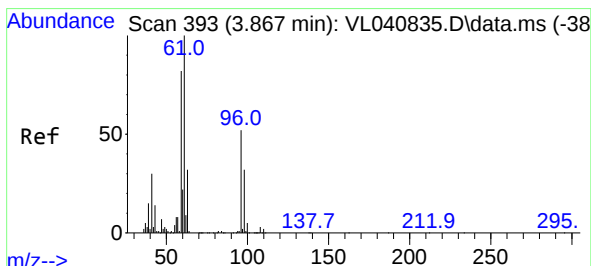
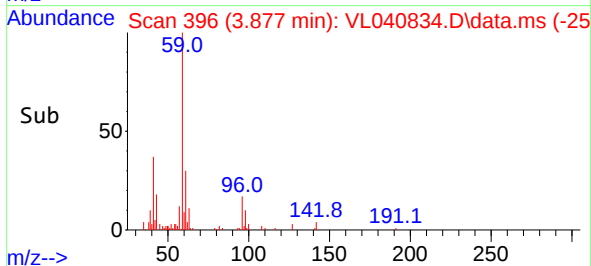
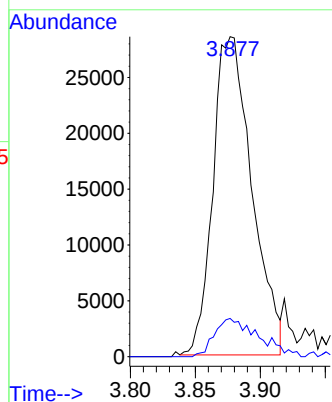
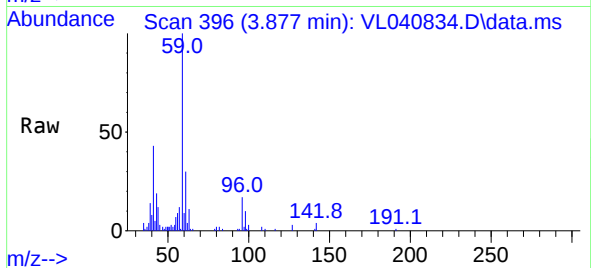




#17
tert-Butyl alcohol
Concen: 0.656 ppbv
RT: 3.877 min Scan# 396
Delta R.T. -0.032 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

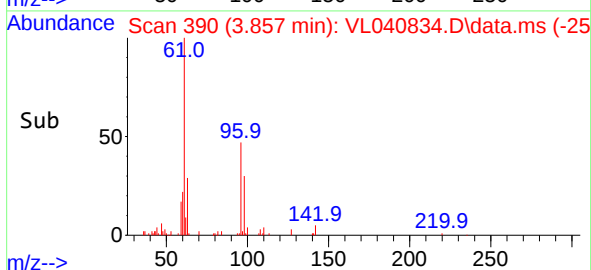
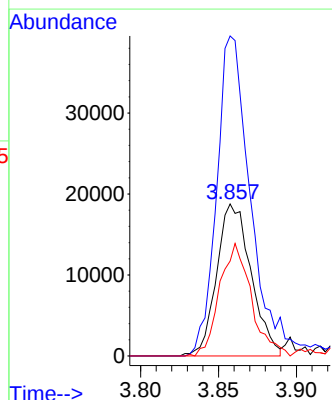
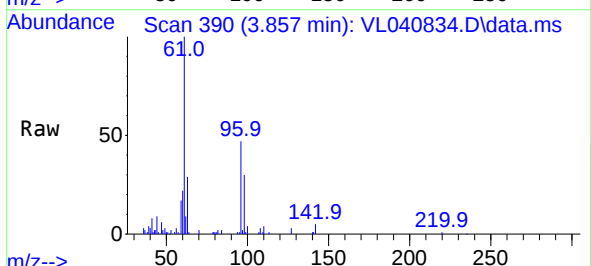
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

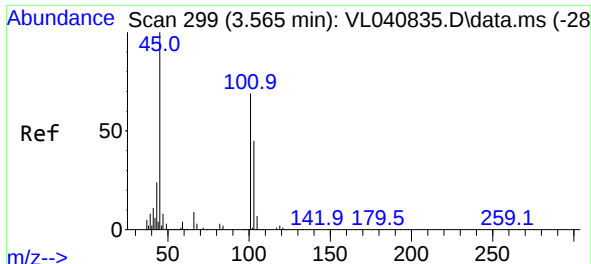
Tgt Ion: 59 Resp: 59368
Ion Ratio Lower Upper
59 100
57 13.6 9.0 13.4#



#18
1,1-Dichloroethene
Concen: 0.589 ppbv
RT: 3.857 min Scan# 390
Delta R.T. -0.055 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 96 Resp: 28884
Ion Ratio Lower Upper
96 100
61 210.6 152.6 228.8
98 62.4 49.2 73.8





#19

Isopropyl Alcohol

Concen: 0.426 ppbv

RT: 3.581 min Scan# 304

Delta R.T. -0.029 min

Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

Instrument :

MSVOA_1

ClientSampleId :

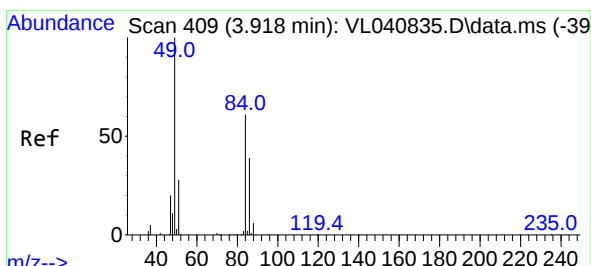
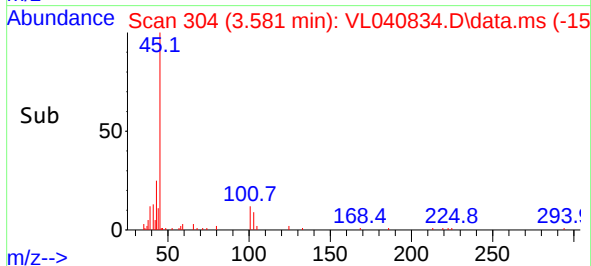
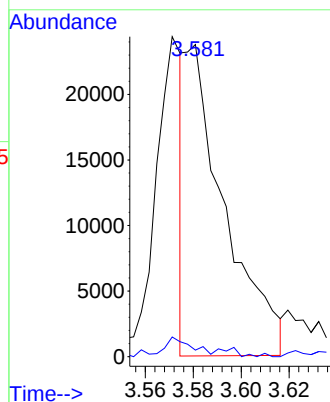
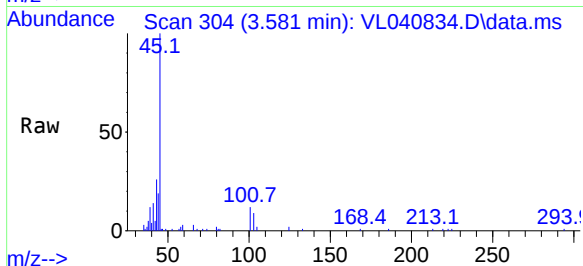
VSTDICC0.5

Tgt Ion: 45 Resp: 27110

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#



#20

Methylene Chloride

Concen: 0.043 ppbv

RT: 3.938 min Scan# 415

Delta R.T. -0.026 min

Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

Tgt Ion: 84 Resp: 1881

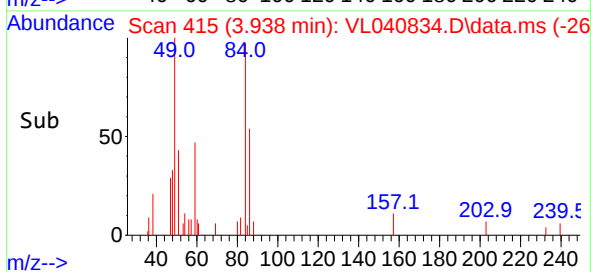
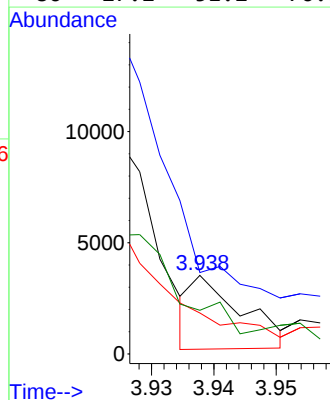
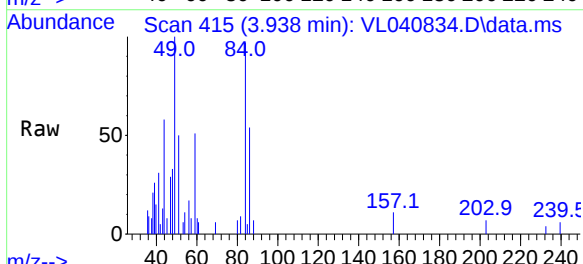
Ion Ratio Lower Upper

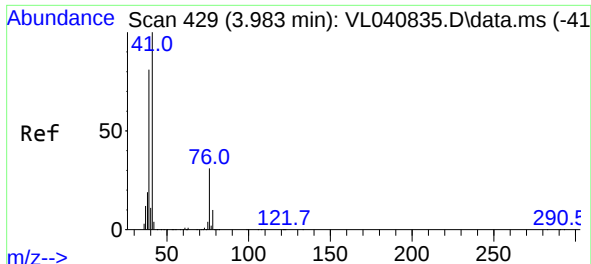
84 100

49 39.0 131.0 196.4#

51 44.1 36.9 55.3

86 27.2 51.2 76.8#





#21

Allyl Chloride

Concen: 0.560 ppbv

RT: 3.970 min Scan# 41

Delta R.T. -0.055 min

Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

Instrument :

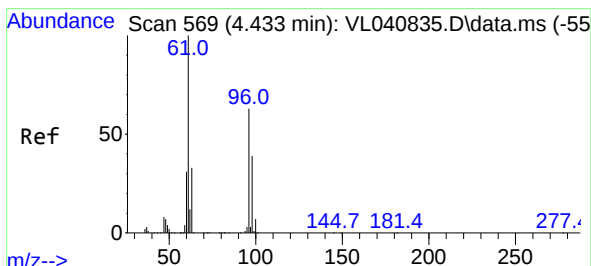
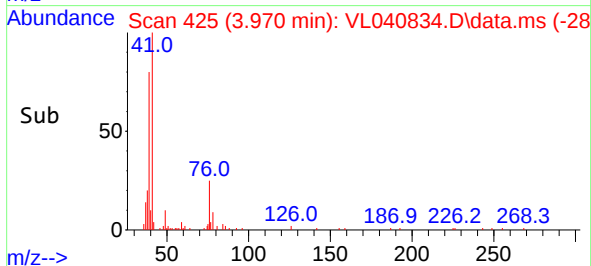
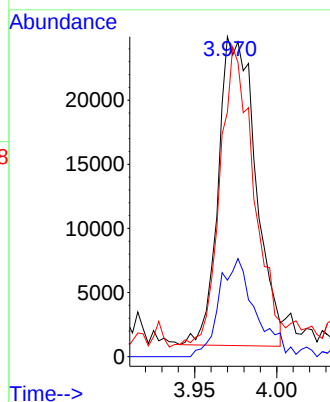
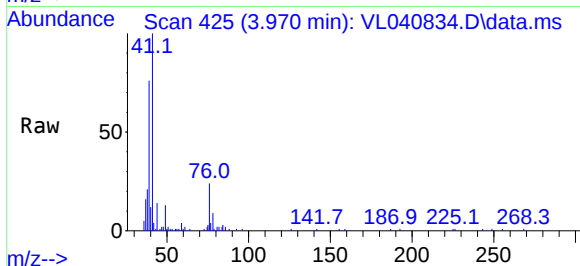
MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 41 Resp: 37940

Ion	Ratio	Lower	Upper
41	100		
76	32.8	24.4	36.6
39	101.1	68.1	102.1



#22

trans-1,2-Dichloroethene

Concen: 0.523 ppbv

RT: 4.423 min Scan# 566

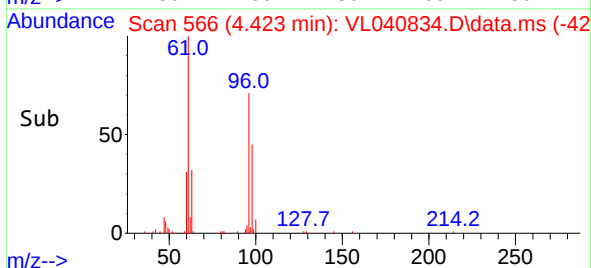
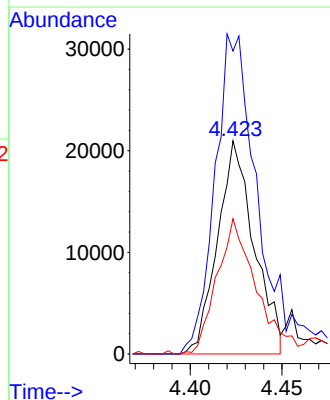
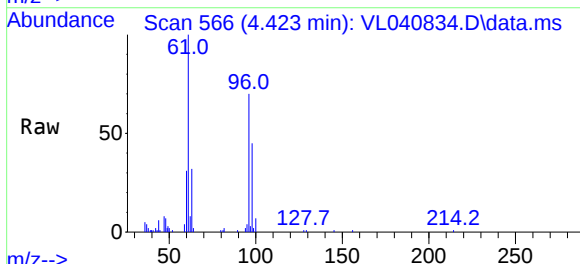
Delta R.T. -0.045 min

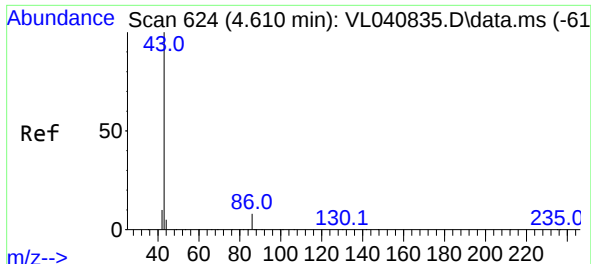
Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

Tgt Ion: 96 Resp: 29121

Ion	Ratio	Lower	Upper
96	100		
61	142.1	126.8	190.2
98	66.2	49.9	74.9



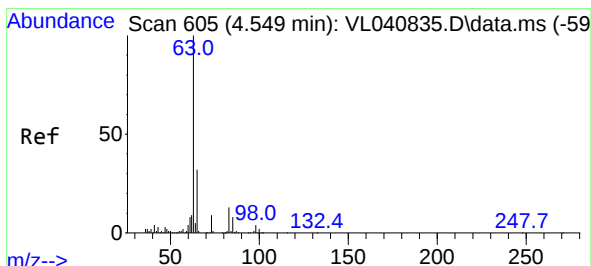
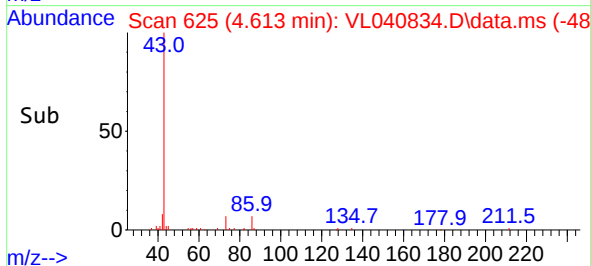
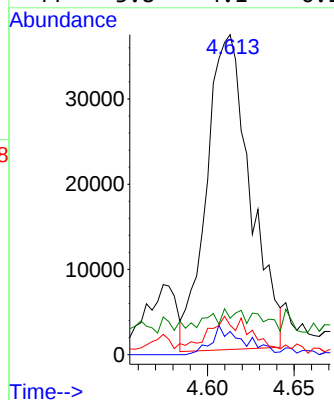
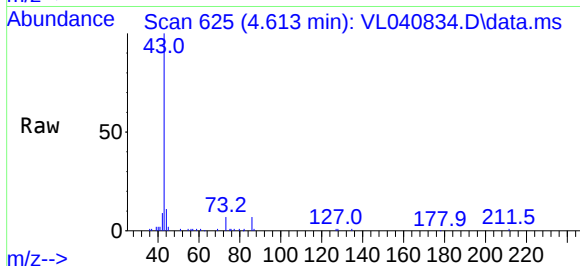


#23
 Vinyl Acetate
 Concen: 0.472 ppbv
 RT: 4.613 min Scan# 61
 Delta R.T. -0.036 min
 Lab File: VL040834.D
 Acq: 13 Nov 2023 10:06

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 43 Resp: 64567

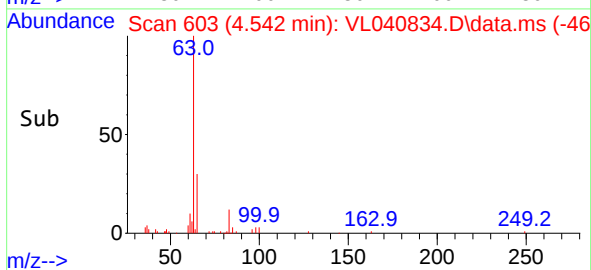
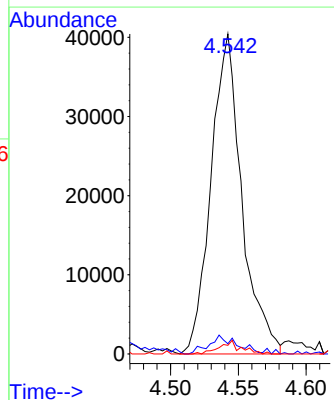
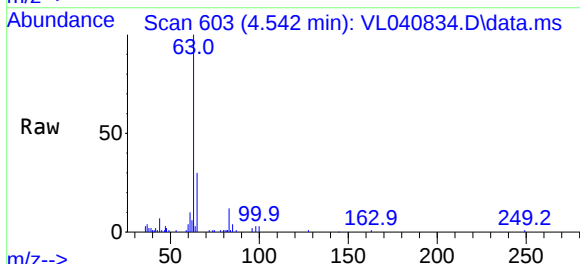
Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.5	8.3
42	8.2	8.2	12.2
44	3.8	4.1	6.1

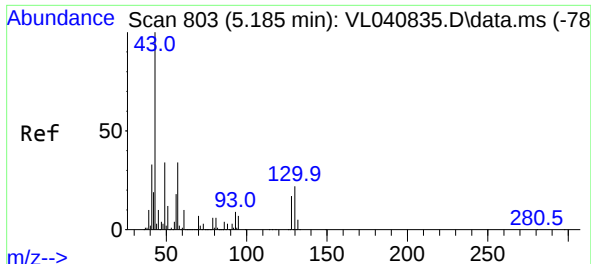


#24
 1,1-Dichloroethane
 Concen: 0.524 ppbv
 RT: 4.542 min Scan# 603
 Delta R.T. -0.045 min
 Lab File: VL040834.D
 Acq: 13 Nov 2023 10:06

Tgt Ion: 63 Resp: 63821

Ion	Ratio	Lower	Upper
63	100		
98	3.2	2.2	6.6
100	2.7	1.0	3.0



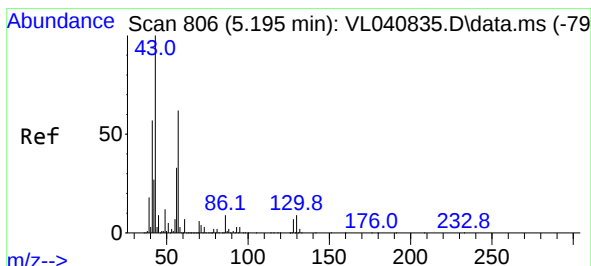
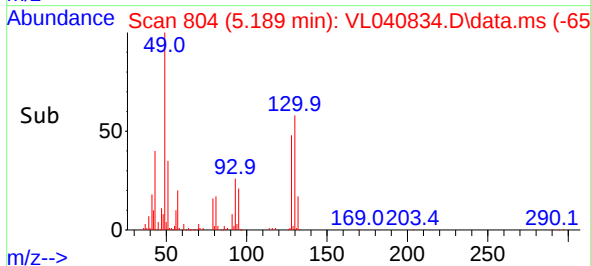
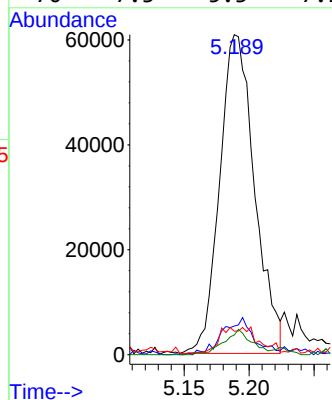
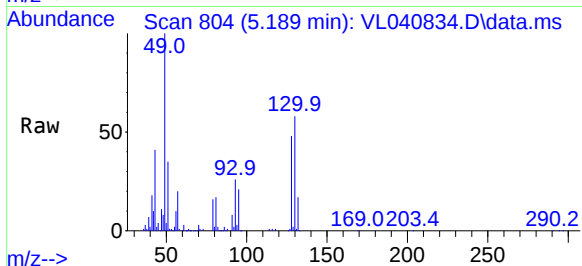


#25
Ethyl Acetate
Concen: 0.519 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.032 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 43 Resp: 113789

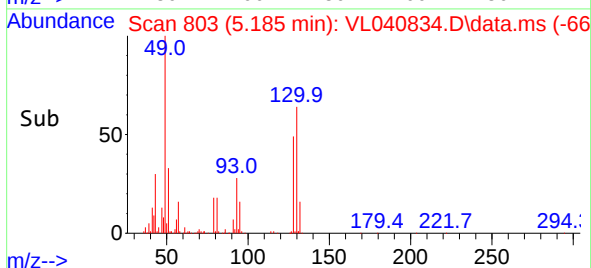
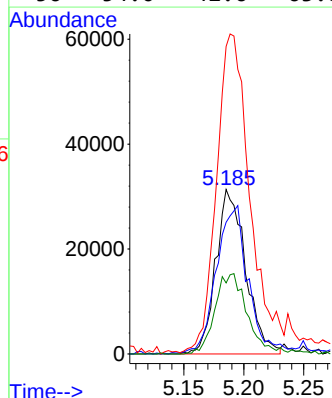
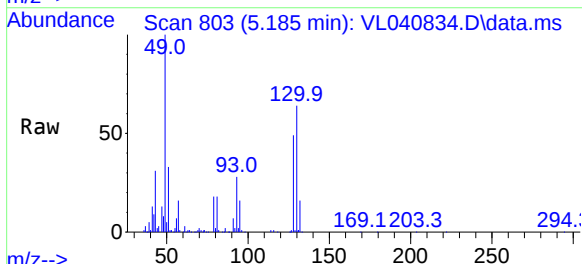
Ion	Ratio	Lower	Upper
43	100		
45	12.3	8.1	12.1
61	9.1	7.8	11.6
70	7.3	5.3	7.9

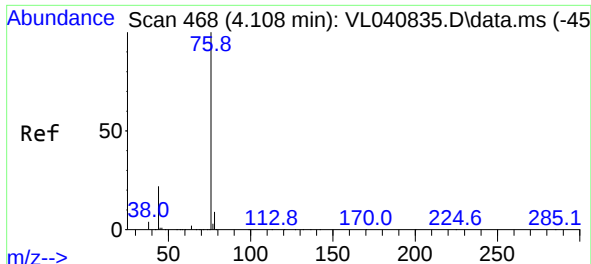


#26
Hexane
Concen: 0.558 ppbv
RT: 5.185 min Scan# 803
Delta R.T. -0.045 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 57 Resp: 54093

Ion	Ratio	Lower	Upper
57	100		
41	101.2	75.4	113.0
43	236.5	185.9	278.9
56	54.0	42.6	63.8

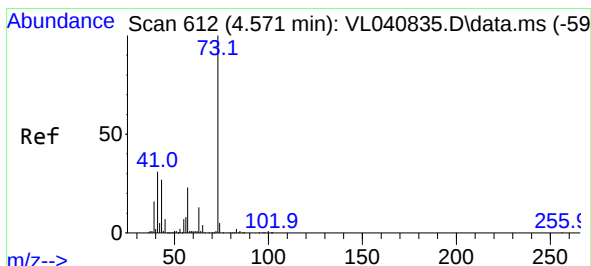
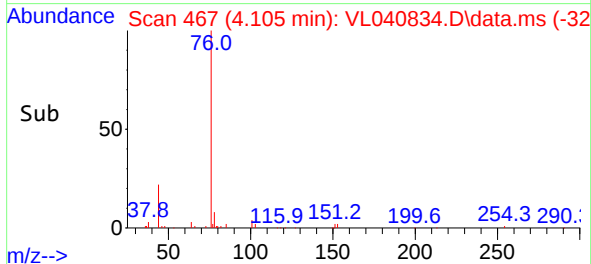
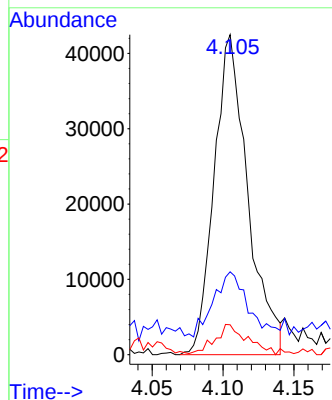
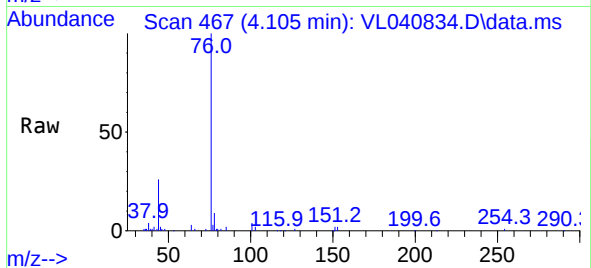




#27
Carbon Disulfide
Concen: 0.571 ppbv
RT: 4.105 min Scan# 467
Delta R.T. -0.048 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

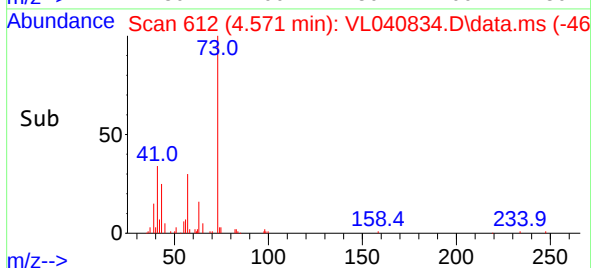
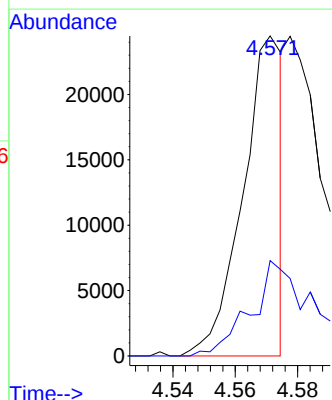
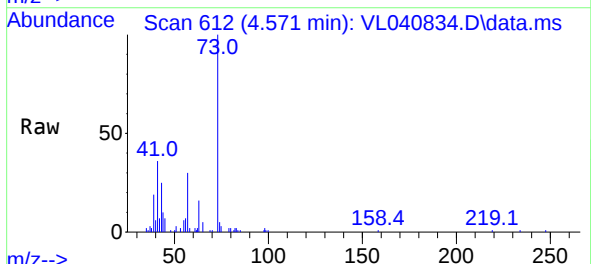
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

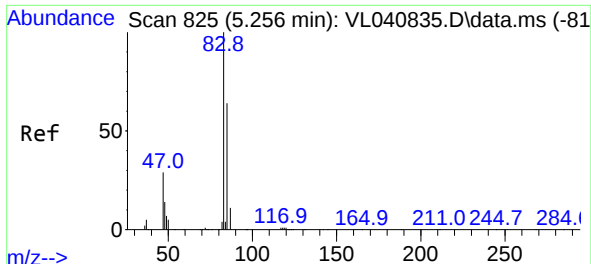
Tgt Ion: 76 Resp: 70220
Ion Ratio Lower Upper
76 100
44 22.5 16.7 25.1
78 9.6 7.6 11.4



#28
Methyl tert-Butyl Ether
Concen: 0.245 ppbv
RT: 4.571 min Scan# 612
Delta R.T. -0.039 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 73 Resp: 21506
Ion Ratio Lower Upper
73 100
57 53.5 18.0 27.0#





#29

Chloroform

Concen: 0.572 ppbv

RT: 5.246 min Scan# 81

Delta R.T. -0.048 min

Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

Instrument :

MSVOA_L

ClientSampleId :

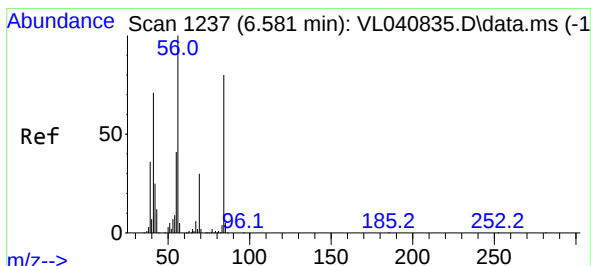
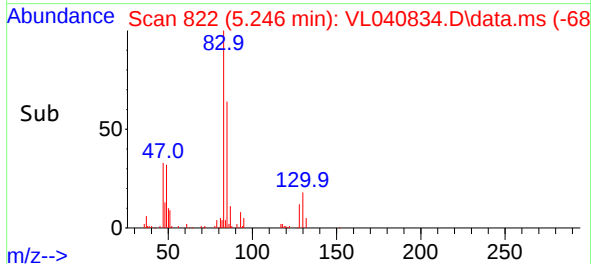
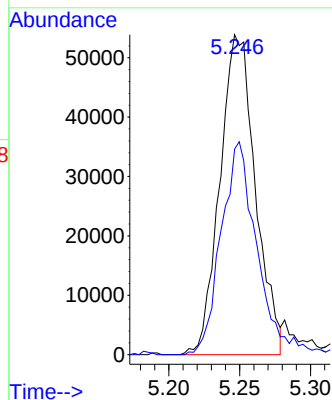
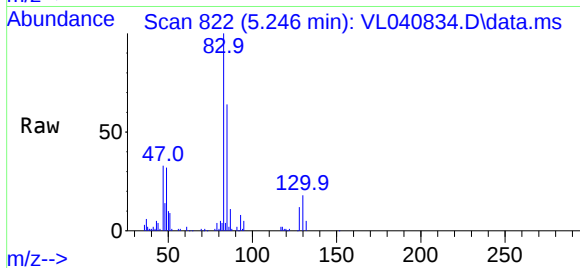
VSTDICC0.5

Tgt Ion: 83 Resp: 94082

Ion Ratio Lower Upper

83 100

85 64.3 51.4 77.0



#30

Cyclohexane

Concen: 0.051 ppbv

RT: 6.552 min Scan# 1228

Delta R.T. -0.061 min

Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

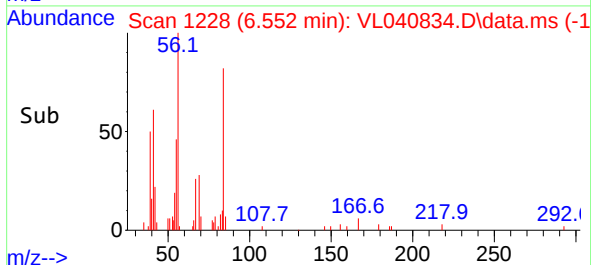
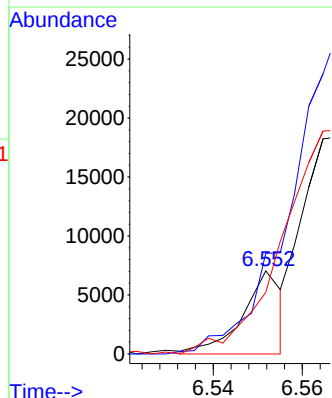
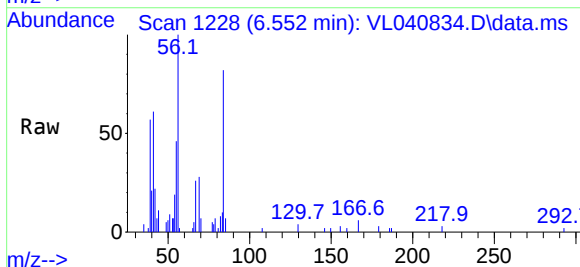
Tgt Ion: 84 Resp: 4285

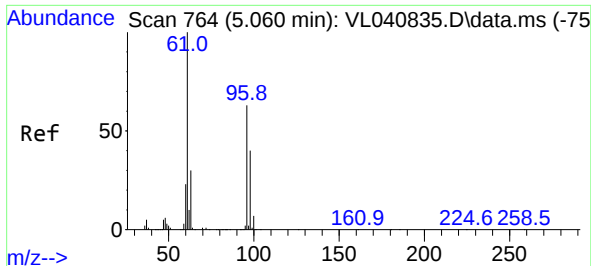
Ion Ratio Lower Upper

84 100

56 0.0 109.3 163.9#

41 0.0 71.4 107.2#

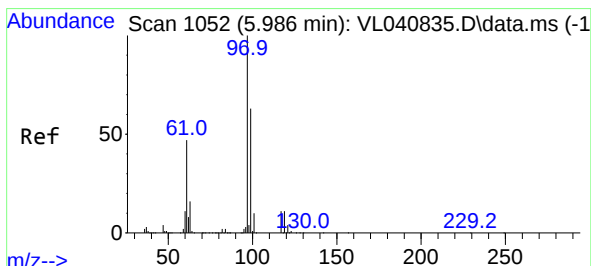
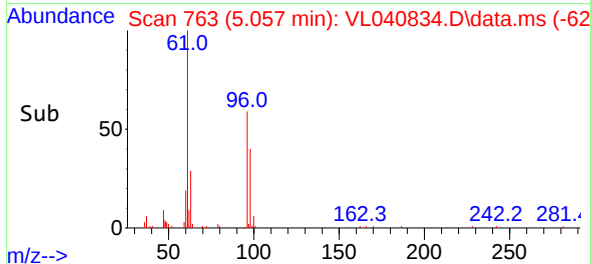
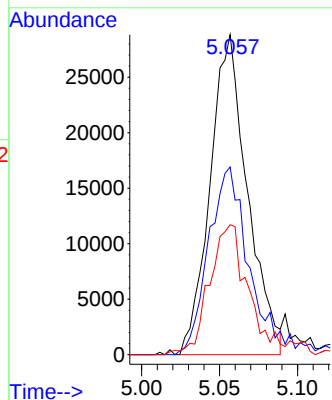
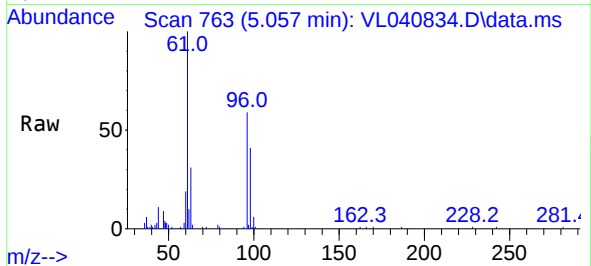




#31
 cis-1,2-Dichloroethene
 Concen: 0.502 ppbv
 RT: 5.057 min Scan# 71
 Delta R.T. -0.042 min
 Lab File: VL040834.D
 Acq: 13 Nov 2023 10:06

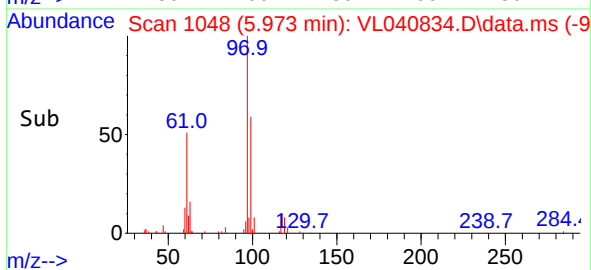
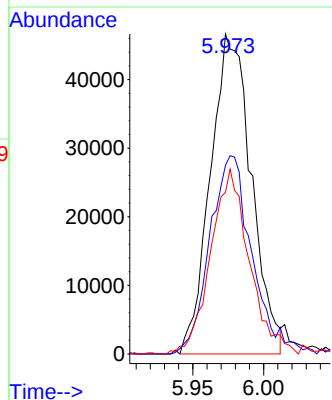
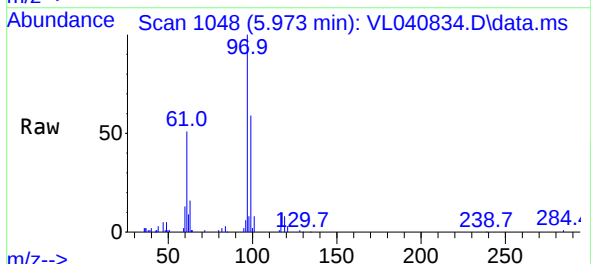
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

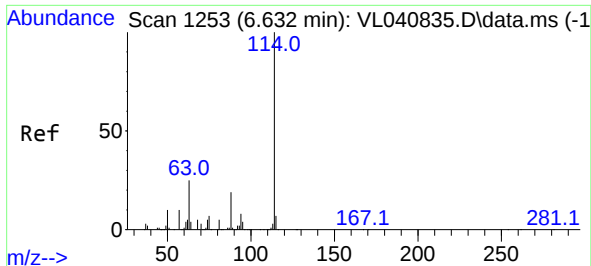
Tgt Ion: 61 Resp: 48176
 Ion Ratio Lower Upper
 61 100
 96 57.4 50.5 75.7
 98 39.5 31.9 47.9



#32
 1,1,1-Trichloroethane
 Concen: 0.610 ppbv
 RT: 5.973 min Scan# 1048
 Delta R.T. -0.045 min
 Lab File: VL040834.D
 Acq: 13 Nov 2023 10:06

Tgt Ion: 97 Resp: 93583
 Ion Ratio Lower Upper
 97 100
 99 64.5 52.2 78.4
 61 55.5 41.0 61.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.626 min Scan# 114

Delta R.T. -0.039 min

Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

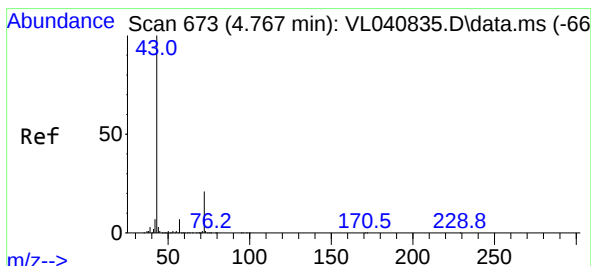
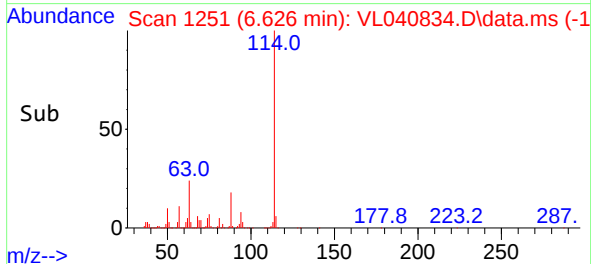
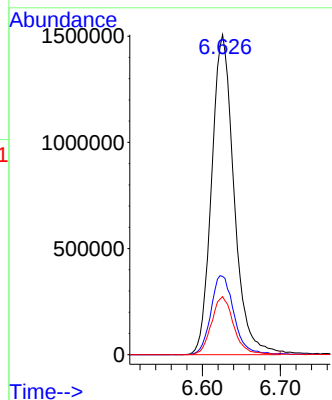
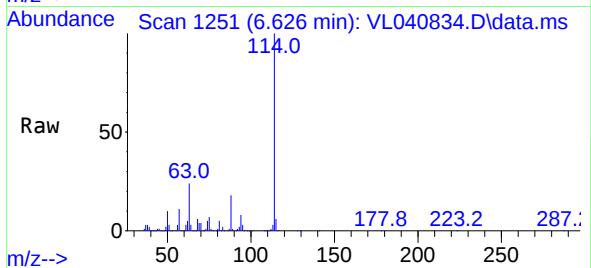
Tgt Ion:114 Resp: 3010529

Ion Ratio Lower Upper

114 100

63 25.8 20.9 31.3

88 18.1 14.3 21.5



#34

2-Butanone

Concen: 0.441 ppbv

RT: 4.780 min Scan# 677

Delta R.T. -0.026 min

Lab File: VL040834.D

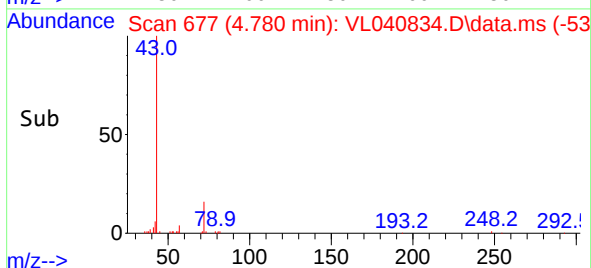
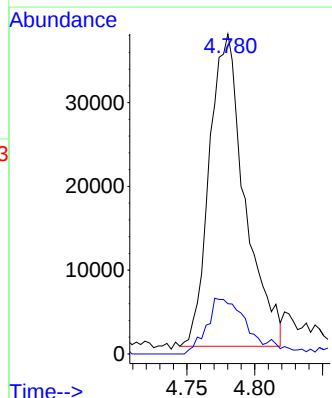
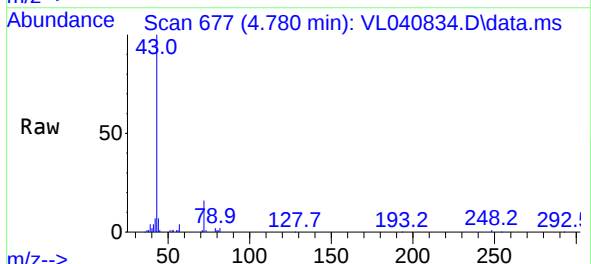
Acq: 13 Nov 2023 10:06

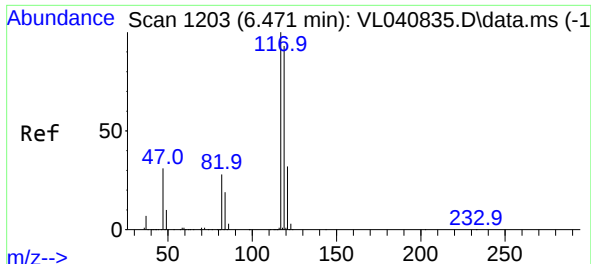
Tgt Ion: 43 Resp: 67632

Ion Ratio Lower Upper

43 100

72 23.2 17.2 25.8

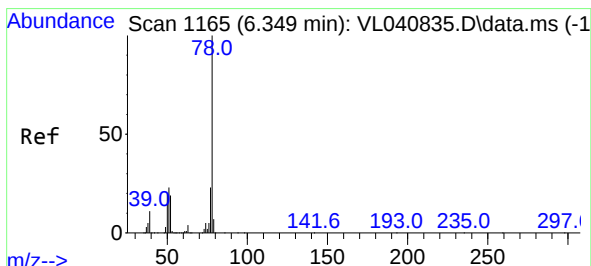
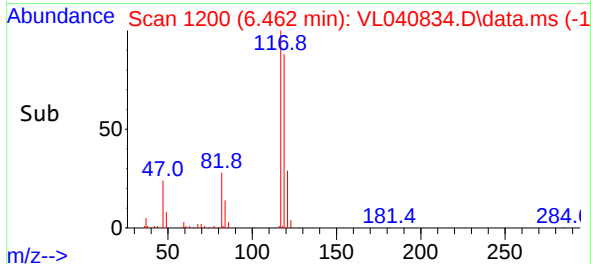
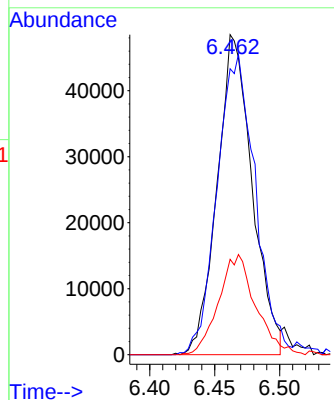
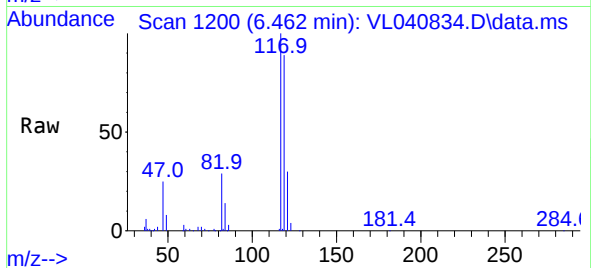




#35
Carbon Tetrachloride
Concen: 0.492 ppbv
RT: 6.462 min Scan# 117
Delta R.T. -0.045 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

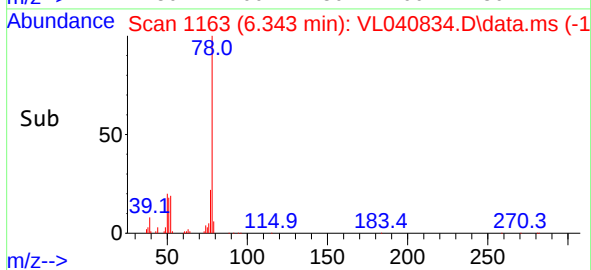
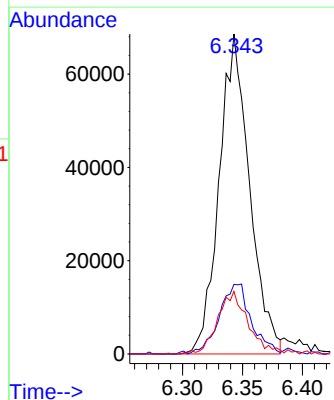
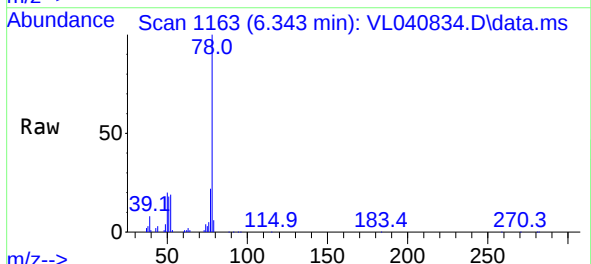
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

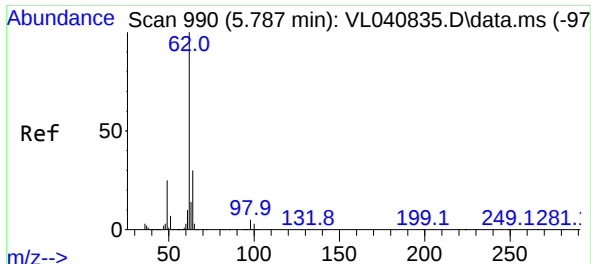
Tgt Ion:117 Resp: 90811
Ion Ratio Lower Upper
117 100
119 88.7 74.7 112.1
121 29.8 25.5 38.3



#36
Benzene
Concen: 0.495 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. -0.042 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 78 Resp: 121022
Ion Ratio Lower Upper
78 100
77 21.4 18.4 27.6
50 19.6 16.2 24.2

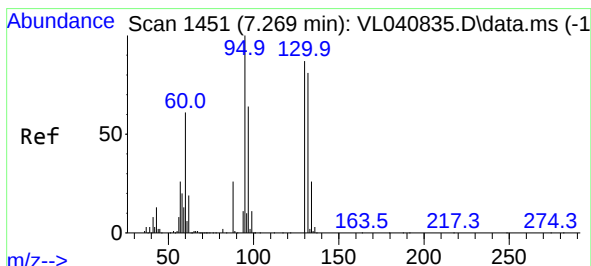
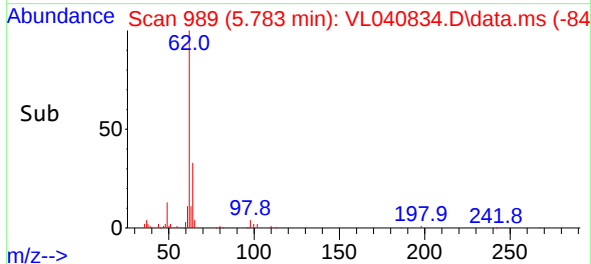
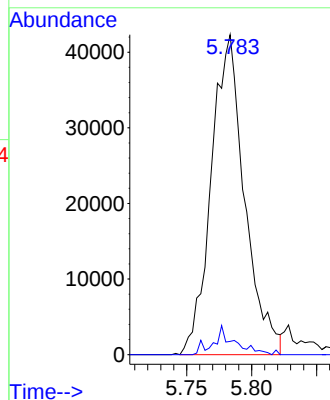
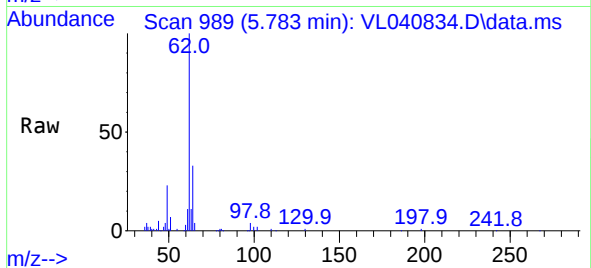




#37
1,2-Dichloroethane
Concen: 0.524 ppbv
RT: 5.783 min Scan# 91
Delta R.T. -0.039 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

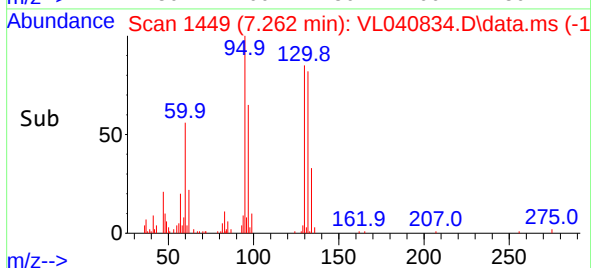
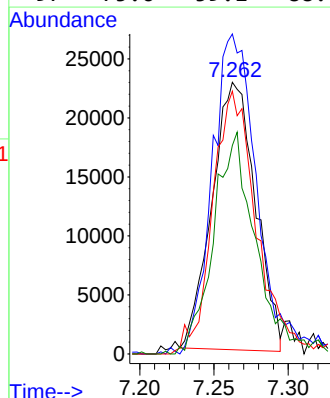
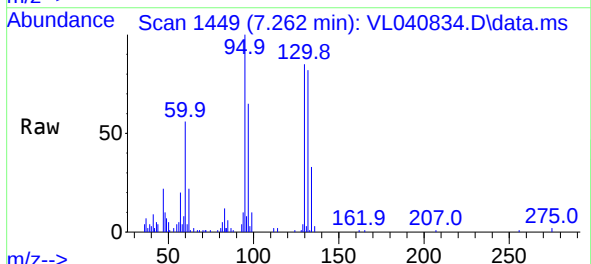
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

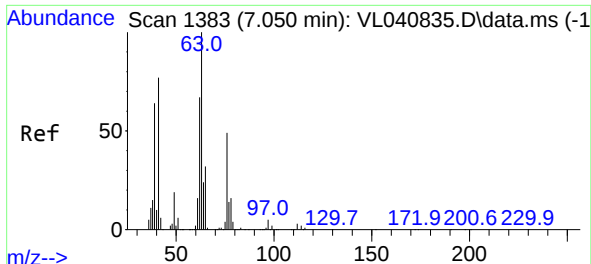
Tgt Ion: 62 Resp: 75568
Ion Ratio Lower Upper
62 100
98 5.7 4.6 6.8



#38
Trichloroethene
Concen: 0.486 ppbv
RT: 7.262 min Scan# 1449
Delta R.T. -0.036 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion:130 Resp: 46158
Ion Ratio Lower Upper
130 100
95 120.5 92.4 138.6
132 96.7 75.1 112.7
97 75.6 59.1 88.7





#39

1,2-Dichloropropane

Concen: 0.524 ppbv

RT: 7.044 min Scan# 11

Delta R.T. -0.039 min

Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

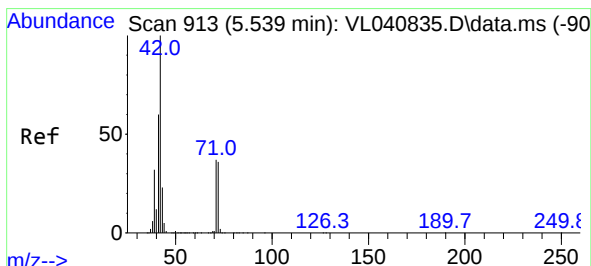
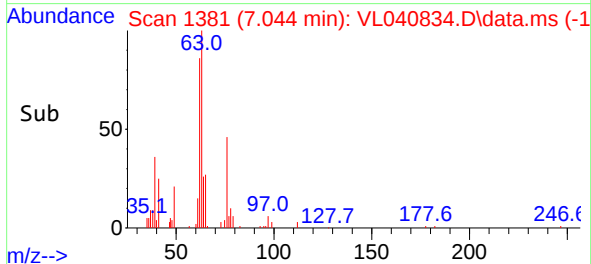
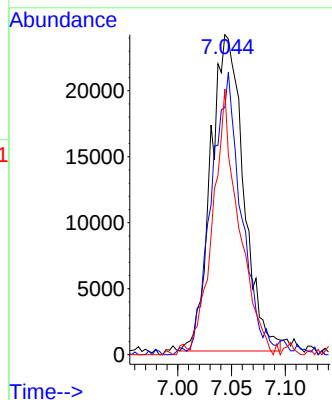
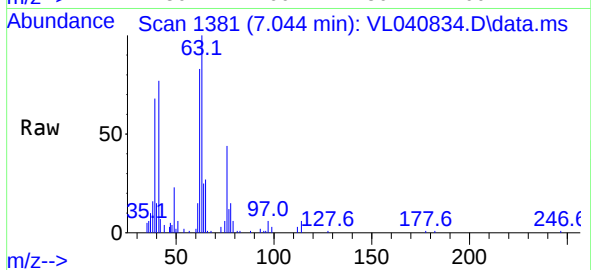
Tgt Ion: 63 Resp: 50801

Ion Ratio Lower Upper

63 100

41 75.9 61.5 92.3

62 84.0 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.032 ppbv

RT: 5.536 min Scan# 912

Delta R.T. -0.039 min

Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

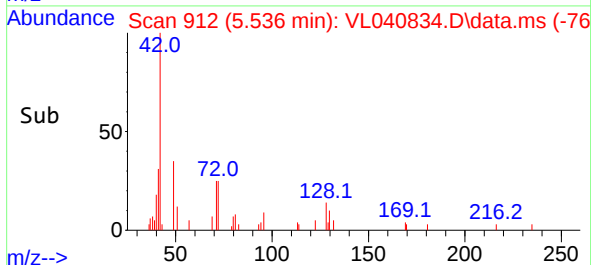
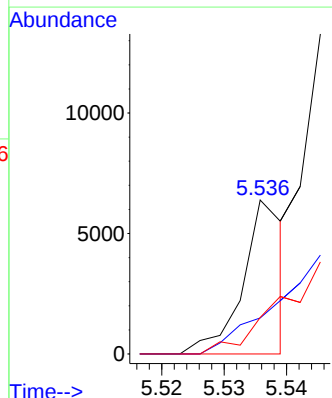
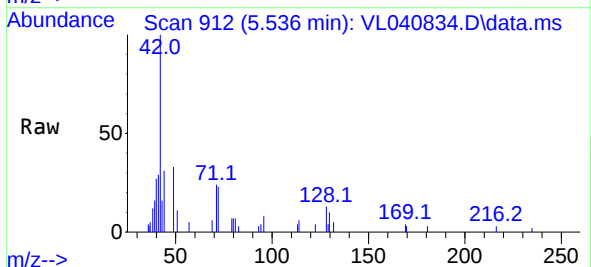
Tgt Ion: 42 Resp: 2979

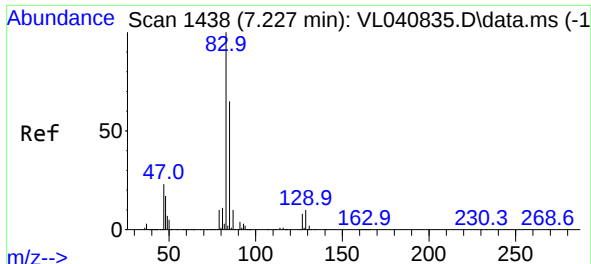
Ion Ratio Lower Upper

42 100

72 0.0 30.8 46.2#

71 0.0 30.0 45.0#

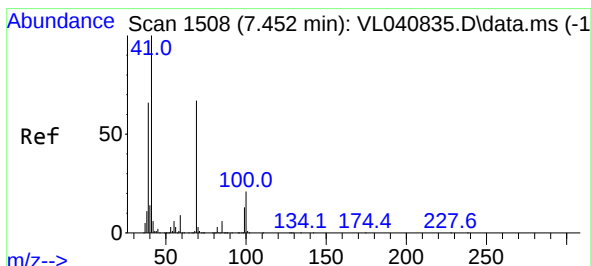
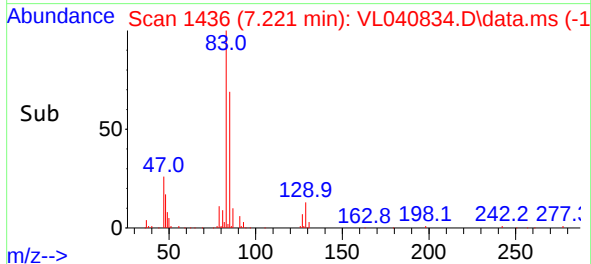
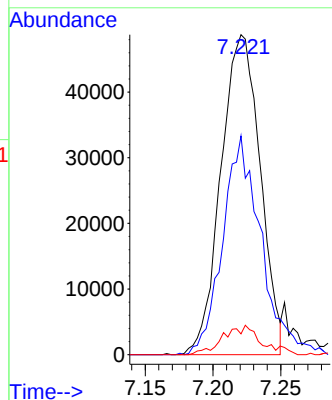
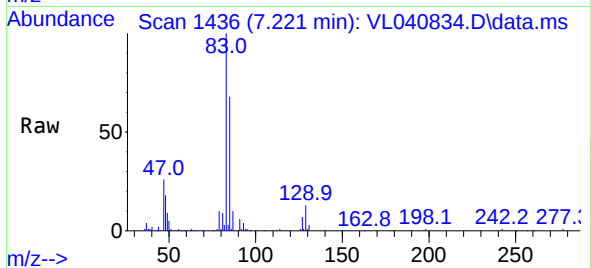




#42
Bromodichloromethane
Concen: 0.476 ppbv
RT: 7.221 min Scan# 1436
Delta R.T. -0.039 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

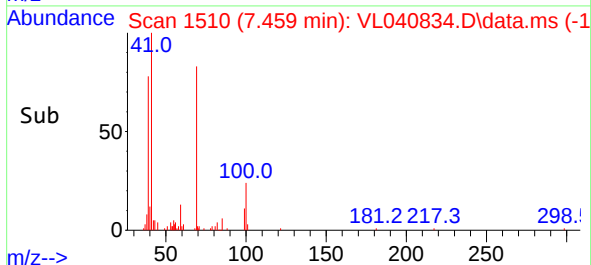
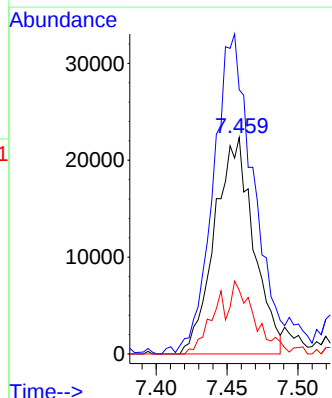
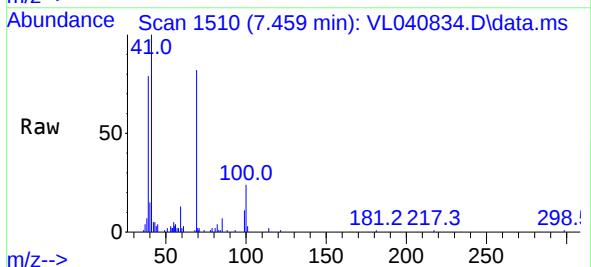
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

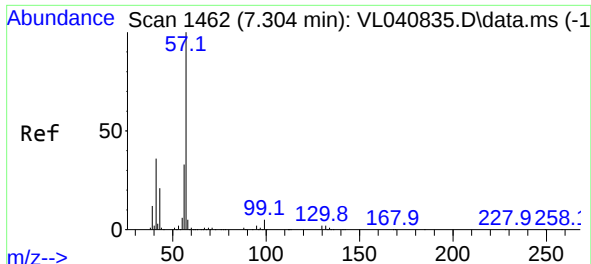
Tgt Ion: 83 Resp: 98256
Ion Ratio Lower Upper
83 100
85 67.9 52.3 78.5
127 6.5 6.6 10.0#



#43
Methyl Methacrylate
Concen: 0.460 ppbv
RT: 7.459 min Scan# 1510
Delta R.T. -0.019 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 69 Resp: 42808
Ion Ratio Lower Upper
69 100
41 158.7 123.0 184.4
100 33.5 25.4 38.2

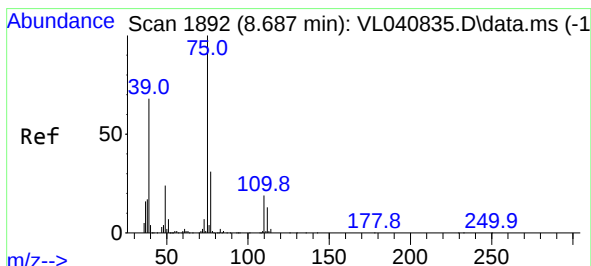
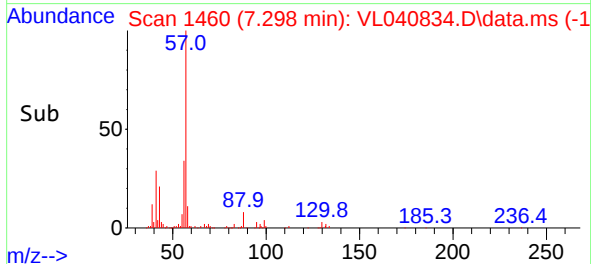
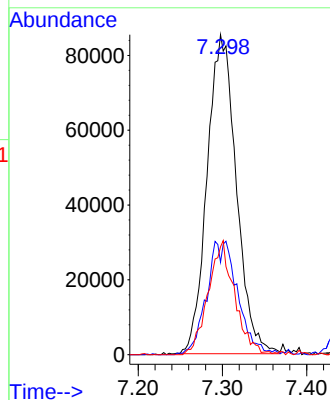
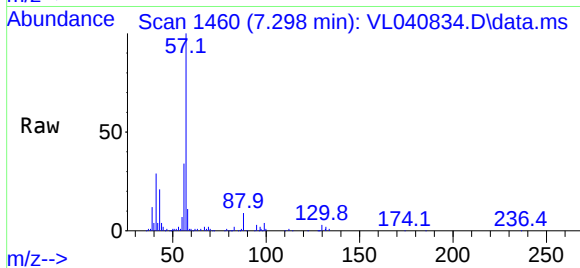




#44
2,2,4-Trimethylpentane
Concen: 0.506 ppbv
RT: 7.298 min Scan# 1460
Delta R.T. -0.036 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

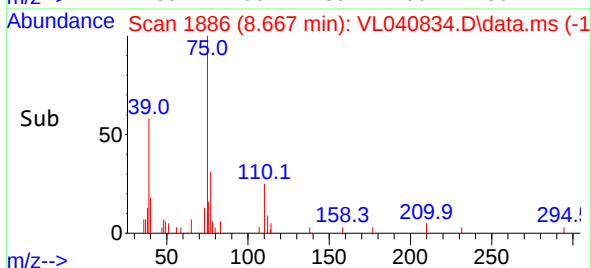
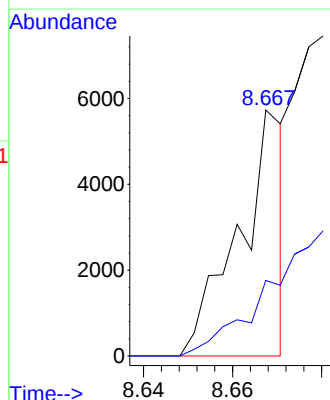
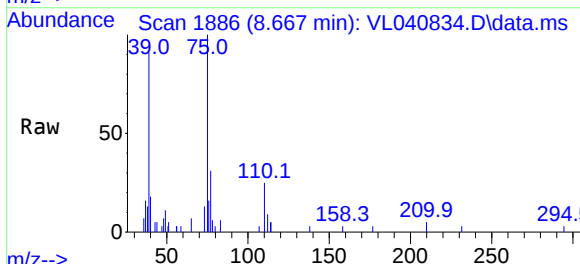
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

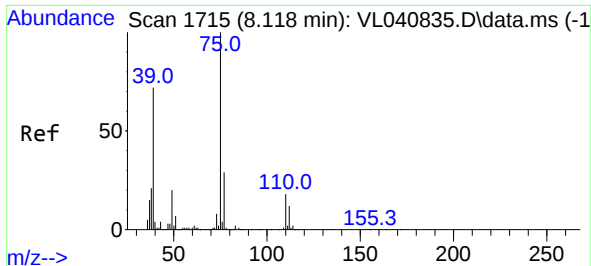
Tgt Ion: 57 Resp: 205425
Ion Ratio Lower Upper
57 100
41 38.5 29.0 43.6
56 32.4 25.2 37.8



#45
t-1,3-Dichloropropene
Concen: 0.074 ppbv
RT: 8.667 min Scan# 1886
Delta R.T. -0.042 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 75 Resp: 4049
Ion Ratio Lower Upper
75 100
77 26.4 24.9 37.3

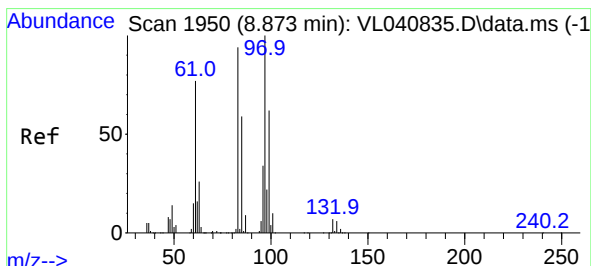
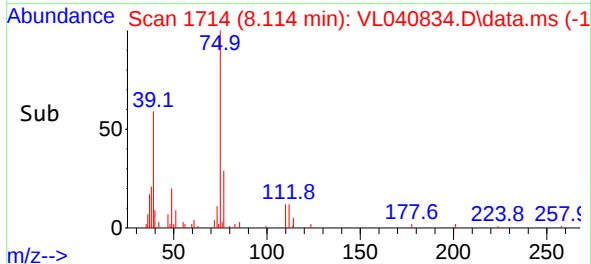
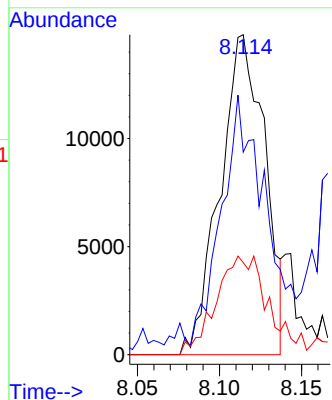
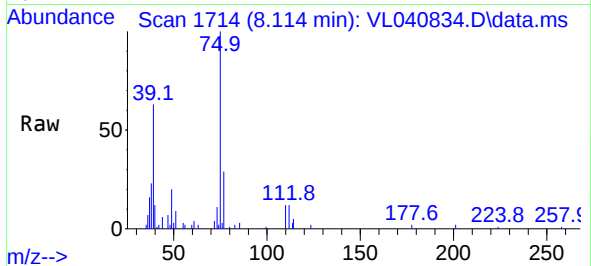




#46
 cis-1,3-Dichloropropene
 Concen: 0.396 ppbv
 RT: 8.114 min Scan# 11
 Delta R.T. -0.032 min
 Lab File: VL040834.D
 Acq: 13 Nov 2023 10:06

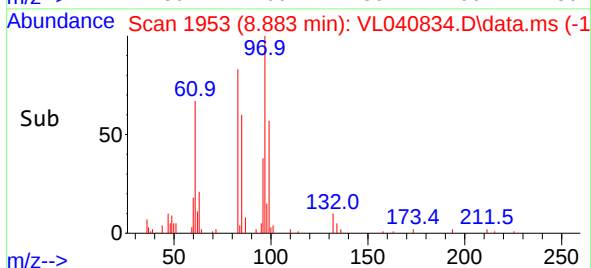
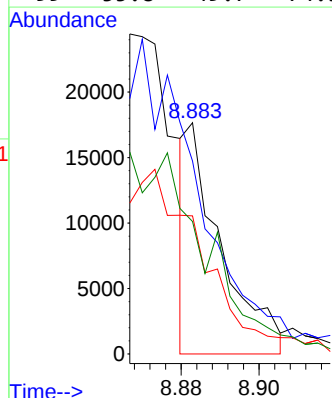
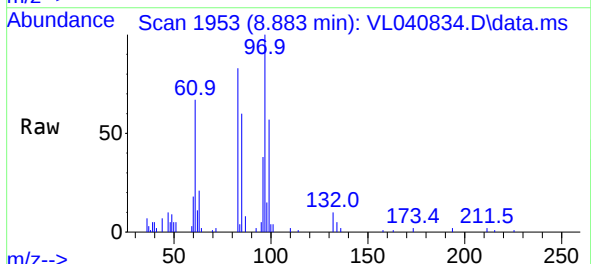
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

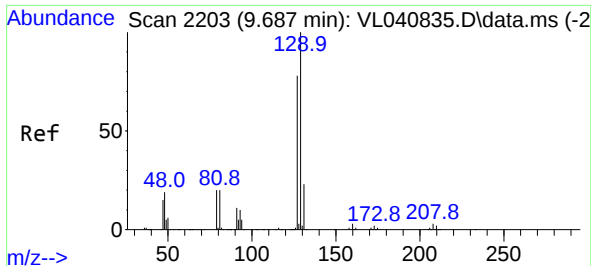
Tgt Ion: 75 Resp: 28118
 Ion Ratio Lower Upper
 75 100
 39 51.8 57.3 85.9#
 77 28.8 23.0 34.6



#47
 1,1,2-Trichloroethane
 Concen: 0.107 ppbv
 RT: 8.883 min Scan# 1953
 Delta R.T. -0.016 min
 Lab File: VL040834.D
 Acq: 13 Nov 2023 10:06

Tgt Ion: 97 Resp: 10818
 Ion Ratio Lower Upper
 97 100
 83 76.6 74.8 112.2
 85 59.9 47.4 71.0
 99 55.8 49.7 74.5

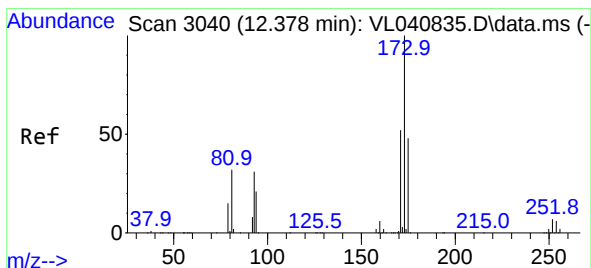
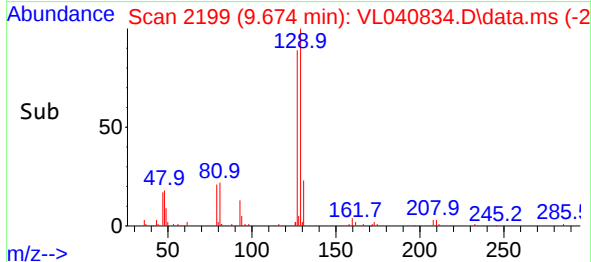
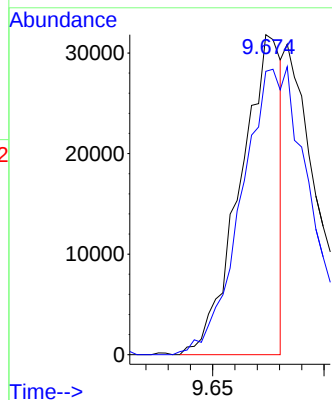
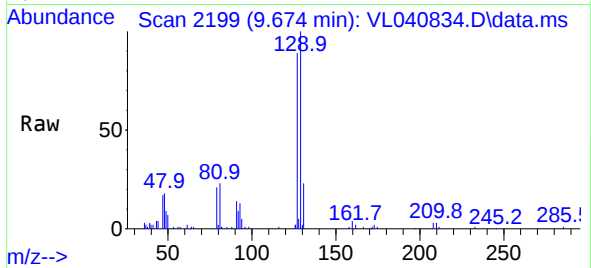




#48
Dibromochloromethane
Concen: 0.240 ppbv
RT: 9.674 min Scan# 2199
Delta R.T. -0.039 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

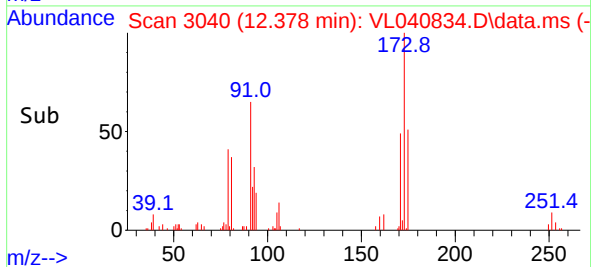
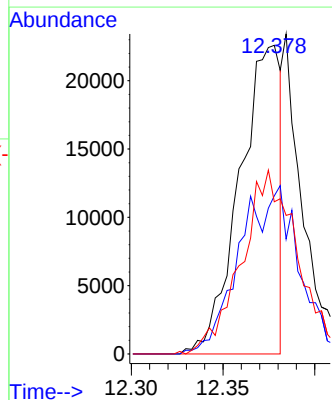
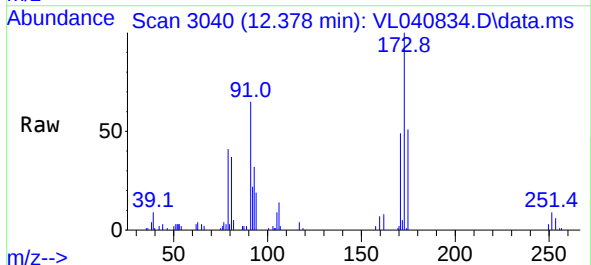
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

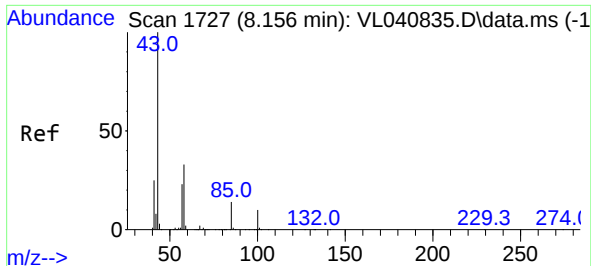
Tgt Ion:129 Resp: 40493
Ion Ratio Lower Upper
129 100
127 0.0 39.3 117.9#



#49
Bromoform
Concen: 0.276 ppbv
RT: 12.378 min Scan# 3040
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion:173 Resp: 34964
Ion Ratio Lower Upper
173 100
175 0.0 39.0 58.6#
171 84.6 41.8 62.6#

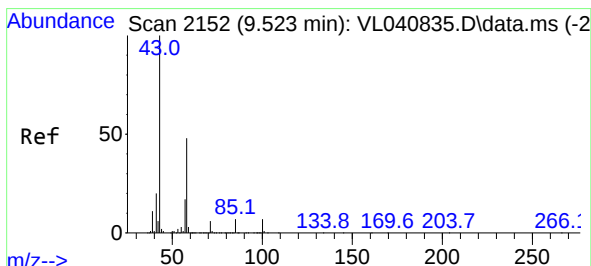
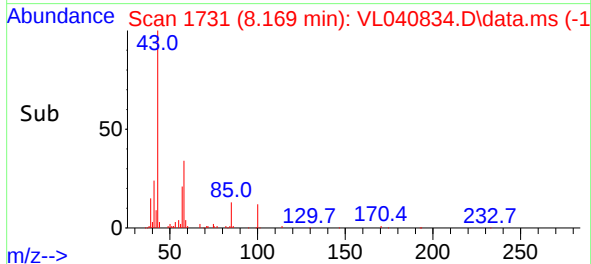
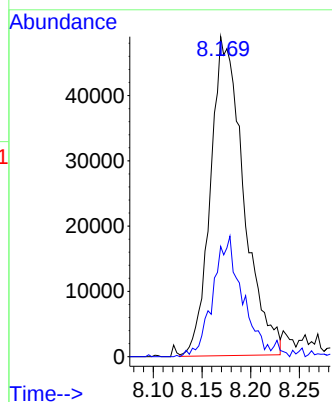
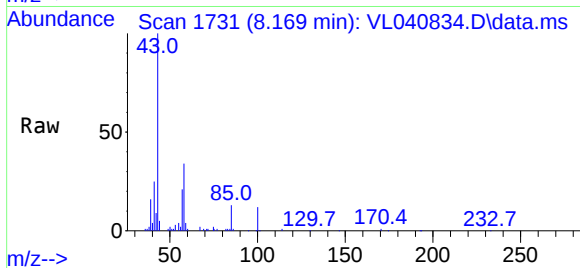




#50
4-Methyl-2-Pentanone
Concen: 0.487 ppbv
RT: 8.169 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

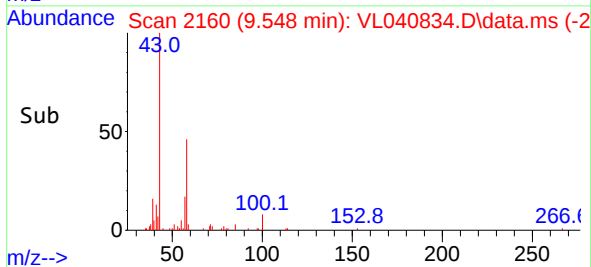
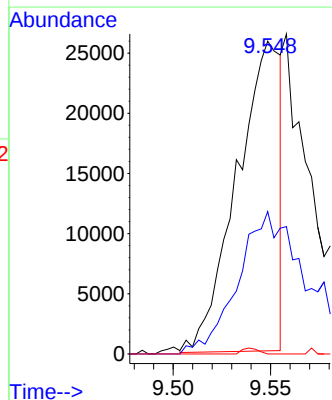
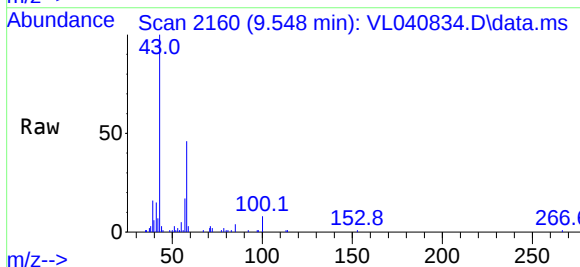
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

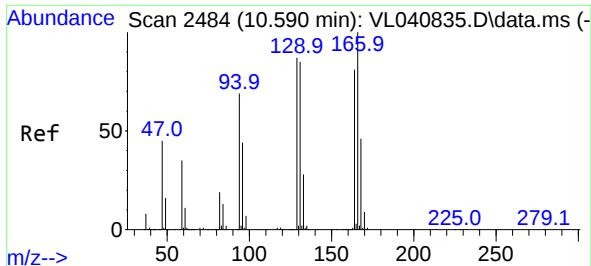
Tgt Ion: 43 Resp: 115537
Ion Ratio Lower Upper
43 100
58 34.5 27.8 41.6



#51
2-Hexanone
Concen: 0.240 ppbv
RT: 9.548 min Scan# 2160
Delta R.T. -0.000 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 43 Resp: 40175
Ion Ratio Lower Upper
43 100
58 81.8 37.4 56.2#
98 0.7 0.2 0.2#

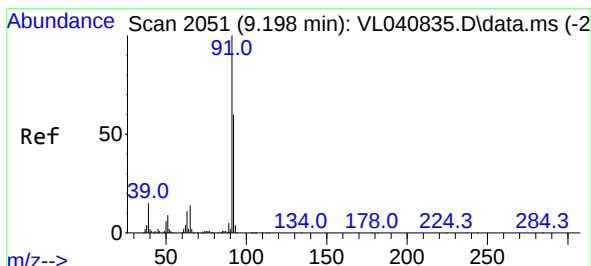
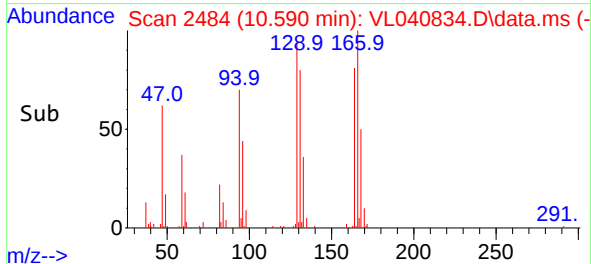
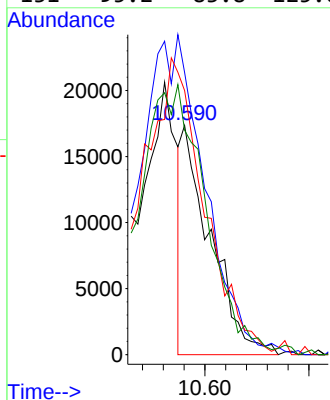
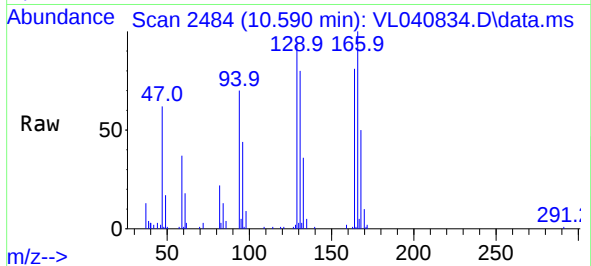




#52
Tetrachloroethene
Concen: 0.201 ppbv
RT: 10.590 min Scan# 2484
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

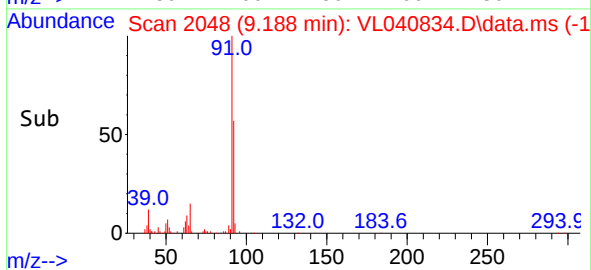
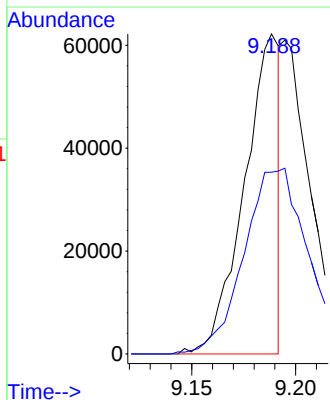
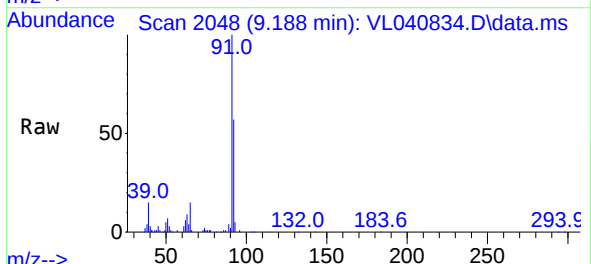
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

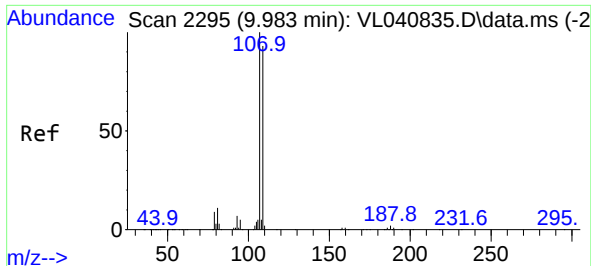
Tgt Ion:164 Resp: 16543
Ion Ratio Lower Upper
164 100
166 119.8 98.3 147.5
129 112.3 85.1 127.7
131 95.2 83.8 125.6



#53
Toluene
Concen: 0.272 ppbv
RT: 9.188 min Scan# 2048
Delta R.T. -0.036 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 91 Resp: 73138
Ion Ratio Lower Upper
91 100
92 0.0 49.4 74.2#

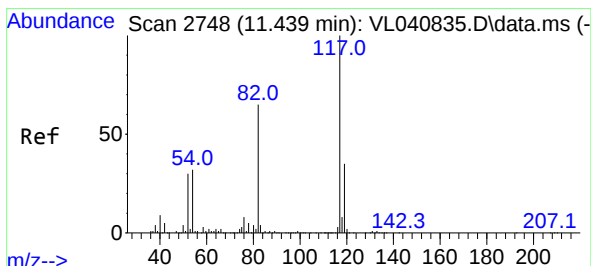
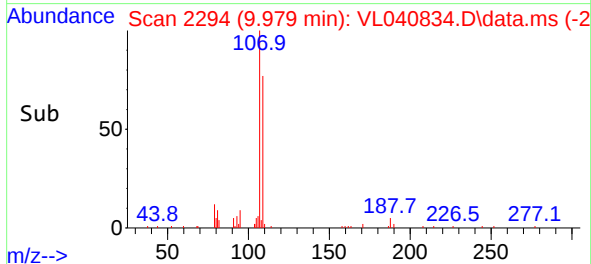
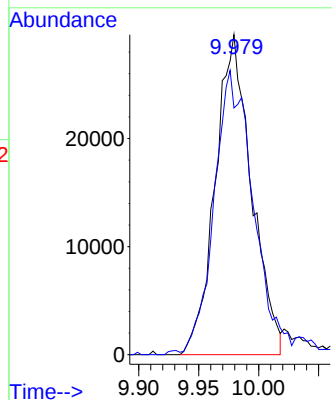
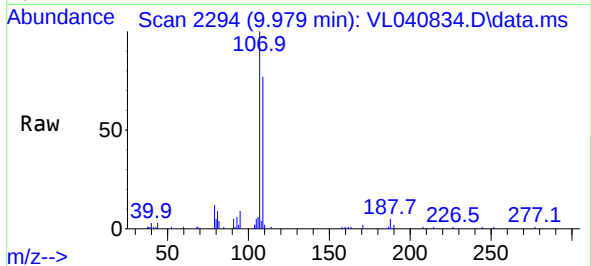




#54
1,2-Dibromoethane
Concen: 0.476 ppbv
RT: 9.979 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

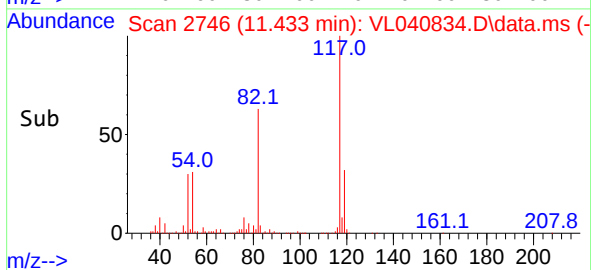
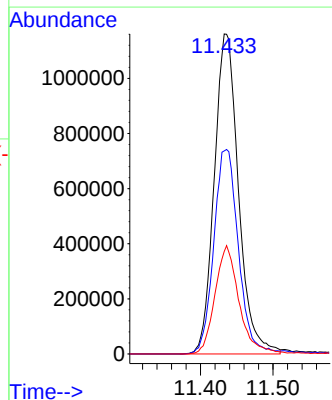
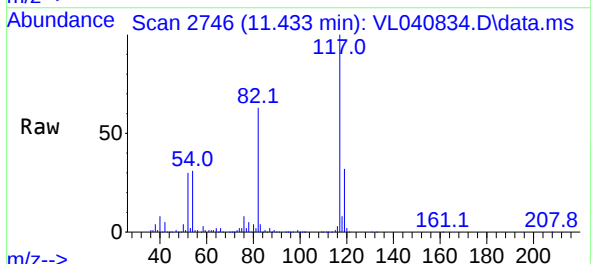
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

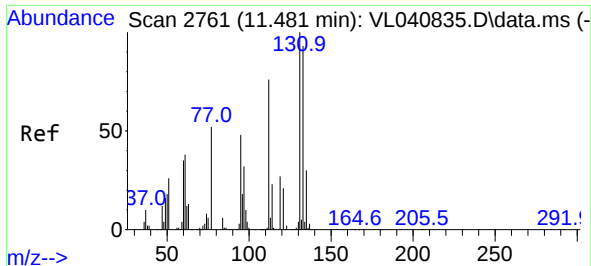
Tgt Ion:107 Resp: 62221
Ion Ratio Lower Upper
107 100
109 76.3 74.5 111.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.433 min Scan# 2746
Delta R.T. -0.029 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion:117 Resp: 2704979
Ion Ratio Lower Upper
117 100
82 65.8 50.6 75.8
119 33.8 23.3 34.9

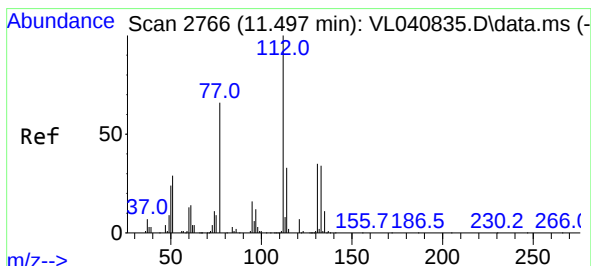
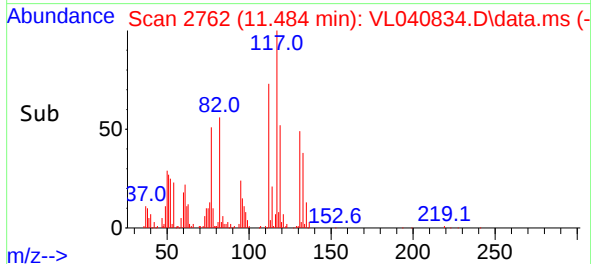
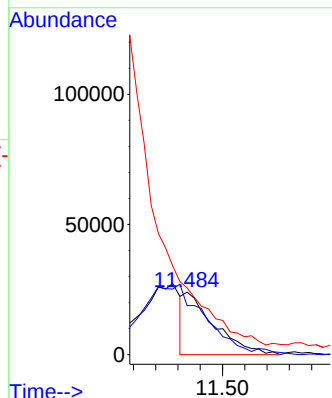
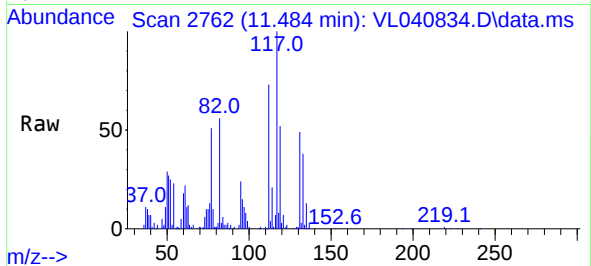




#56
1,1,1,2-Tetrachloroethane
Concen: 0.194 ppbv
RT: 11.484 min Scan# 211
Delta R.T. -0.023 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

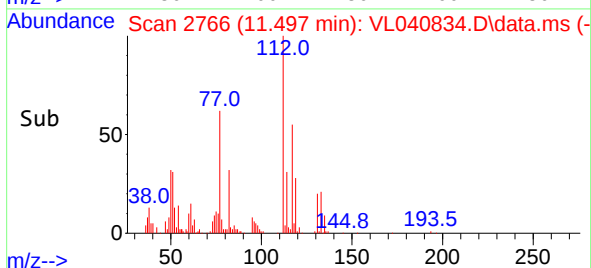
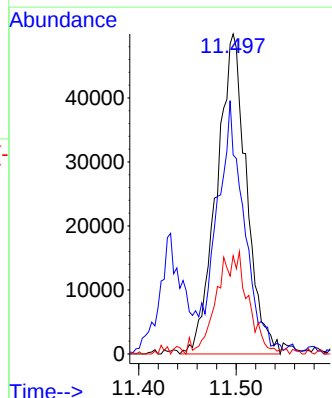
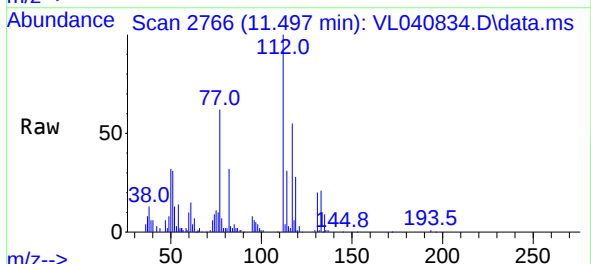
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

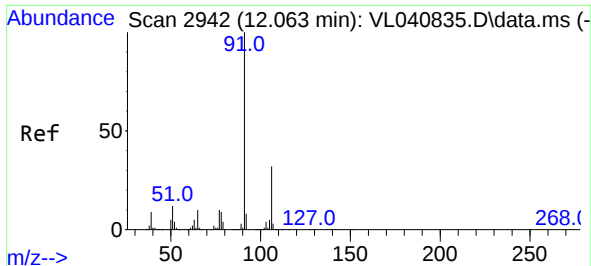
Tgt Ion:131 Resp: 22430
Ion Ratio Lower Upper
131 100
133 259.5 76.4 114.6#
119 0.0 51.1 76.7#



#57
Chlorobenzene
Concen: 0.530 ppbv
RT: 11.497 min Scan# 2766
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion:112 Resp: 106305
Ion Ratio Lower Upper
112 100
77 59.4 53.3 79.9
114 29.4 29.3 35.9





#58

Ethyl Benzene

Concen: 0.495 ppbv

RT: 12.060 min Scan# 2942

Delta R.T. -0.026 min

Lab File: VL040834.D

Acq: 13 Nov 2023 10:06

Instrument :

MSVOA_L

ClientSampleId :

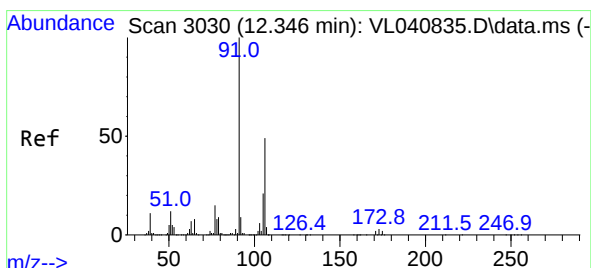
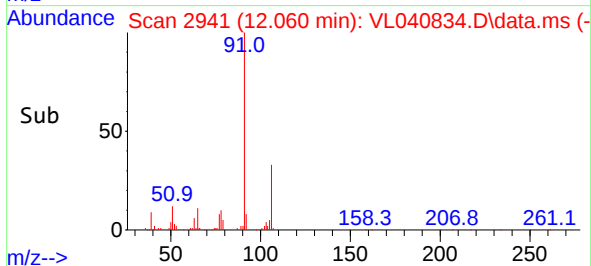
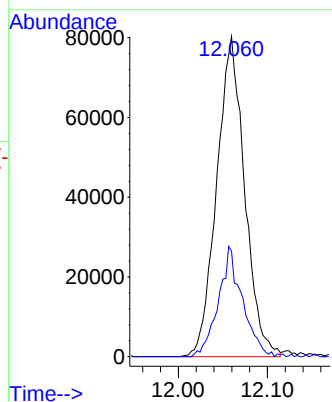
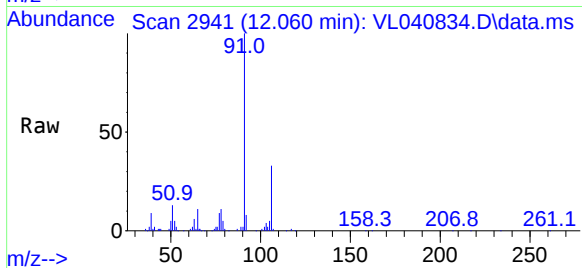
VSTDIC0.5

Tgt Ion: 91 Resp: 174736

Ion Ratio Lower Upper

91 100

106 33.0 25.2 37.8



#59

m/p-Xylene

Concen: 0.087 ppbv

RT: 12.336 min Scan# 3027

Delta R.T. -0.032 min

Lab File: VL040834.D

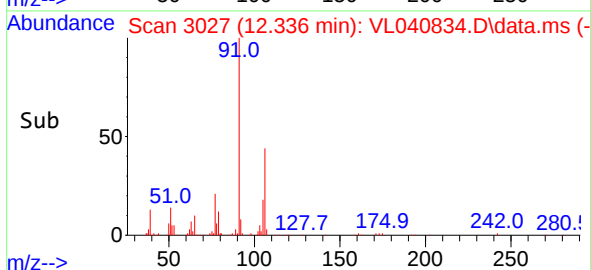
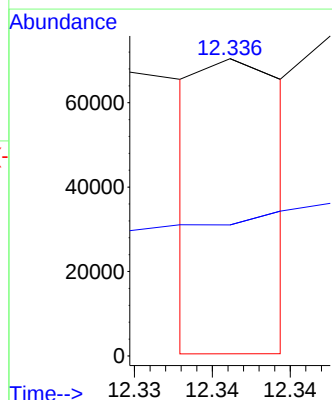
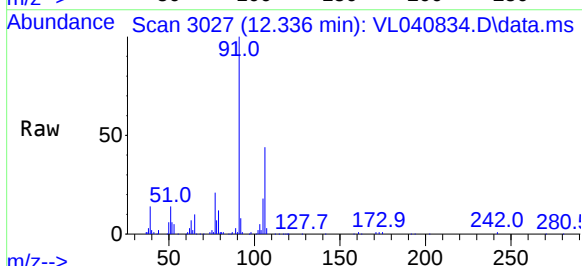
Acq: 13 Nov 2023 10:06

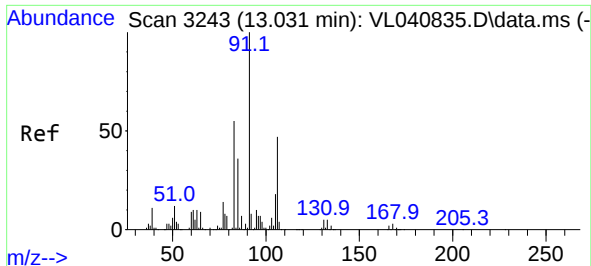
Tgt Ion: 91 Resp: 26044

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.0#

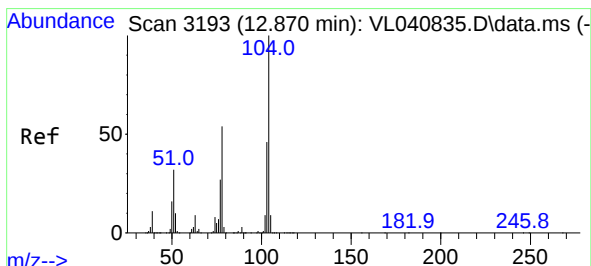
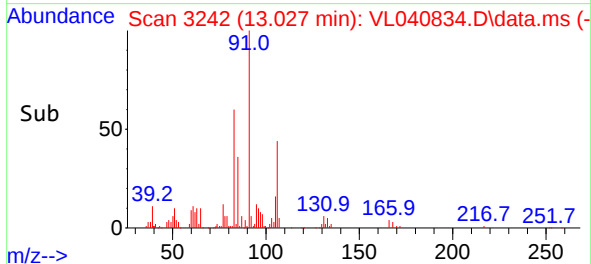
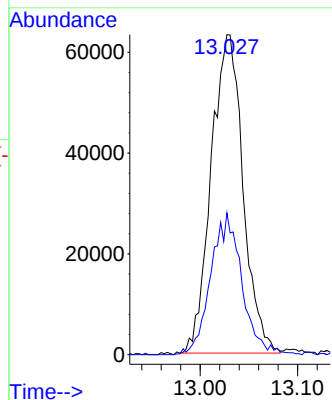
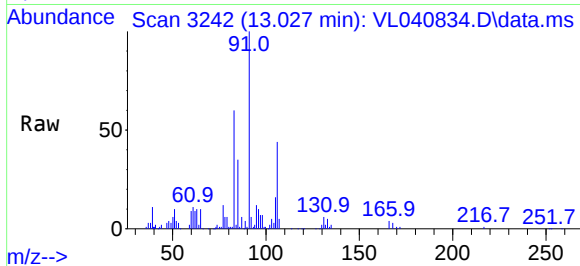




#60
o-Xylene
Concen: 0.503 ppbv
RT: 13.027 min Scan# 3189
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

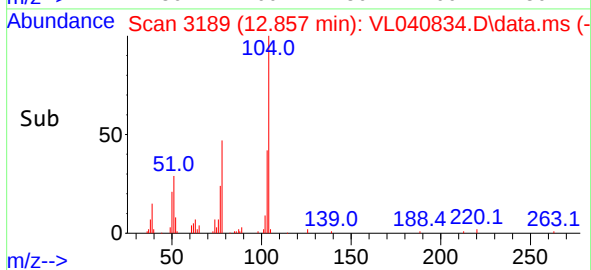
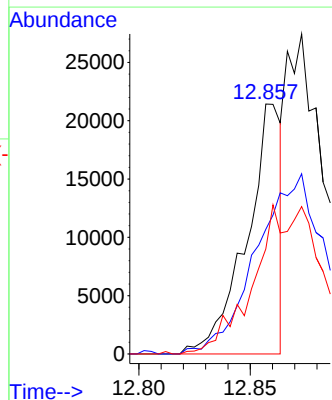
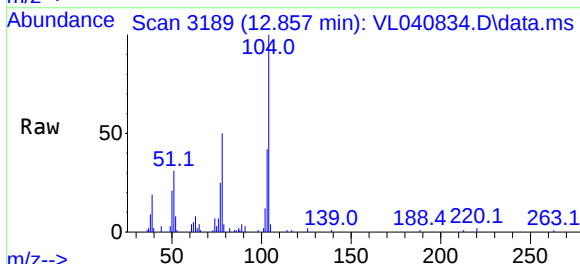
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

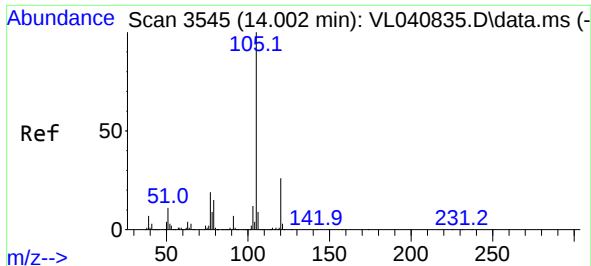
Tgt Ion: 91 Resp: 143819
Ion Ratio Lower Upper
91 100
106 43.5 22.9 68.5



#61
Styrene
Concen: 0.168 ppbv
RT: 12.857 min Scan# 3189
Delta R.T. -0.036 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion:104 Resp: 23244
Ion Ratio Lower Upper
104 100
78 0.0 43.3 64.9#
103 127.2 37.6 56.4#

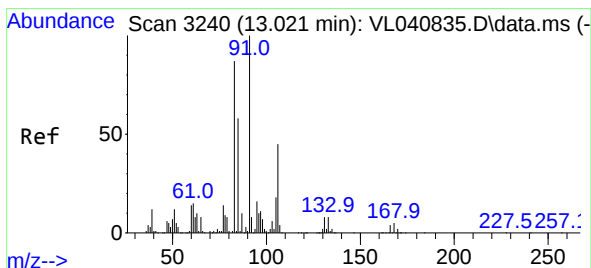
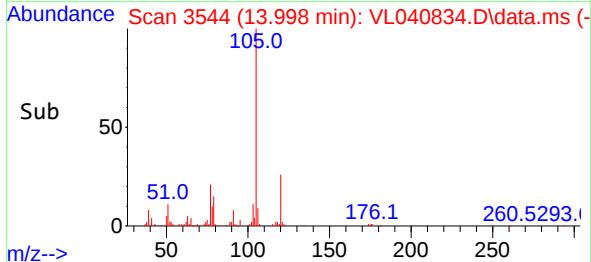
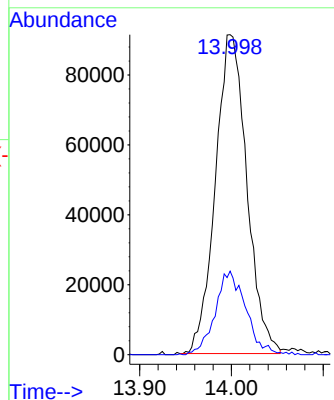
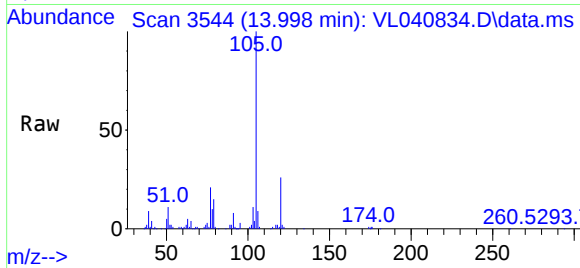




#62
Isopropylbenzene
Concen: 0.514 ppbv
RT: 13.998 min Scan# 31
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

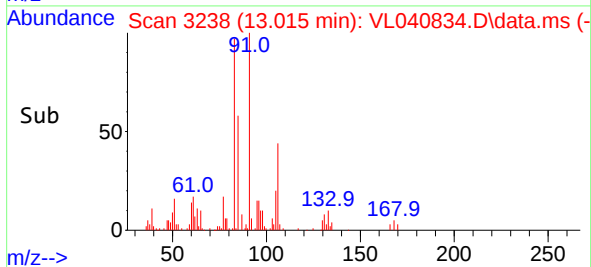
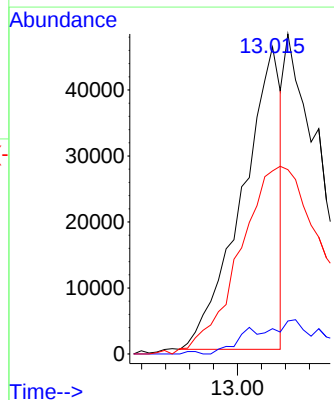
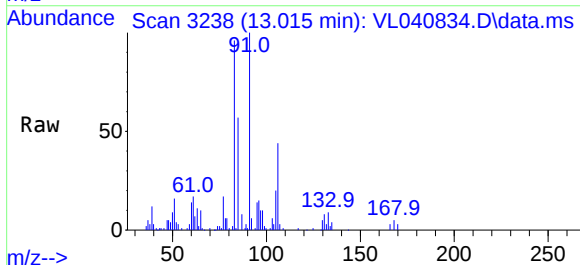
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

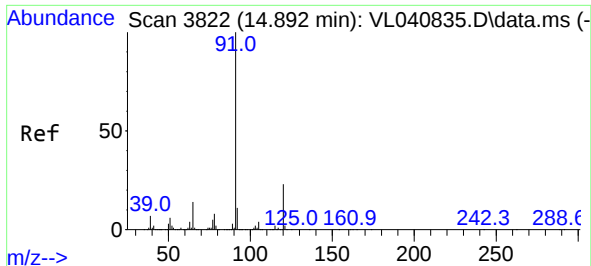
Tgt Ion:105 Resp: 217316
Ion Ratio Lower Upper
105 100
120 25.6 20.7 31.1



#63
1,1,2,2-Tetrachloroethane
Concen: 0.257 ppbv
RT: 13.015 min Scan# 3238
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 83 Resp: 52048
Ion Ratio Lower Upper
83 100
131 0.0 4.5 13.7#
85 141.9 32.9 98.7#

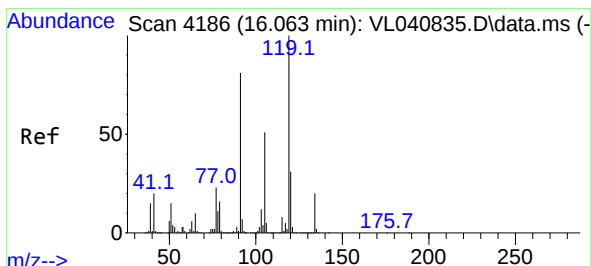
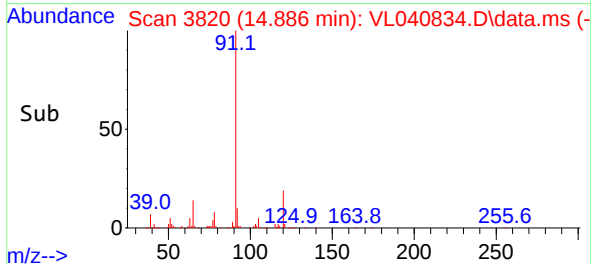
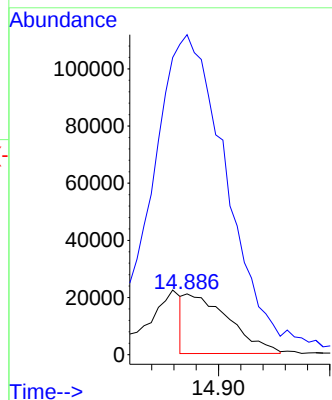
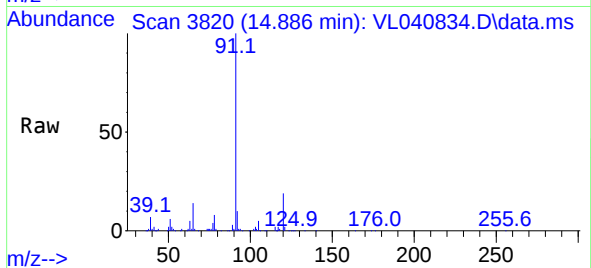




#64
n-propylbenzene
Concen: 0.273 ppbv
RT: 14.886 min Scan# 3820
Delta R.T. -0.023 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

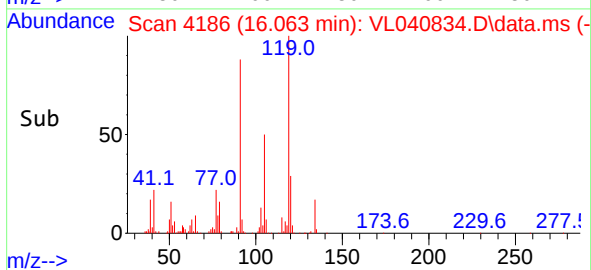
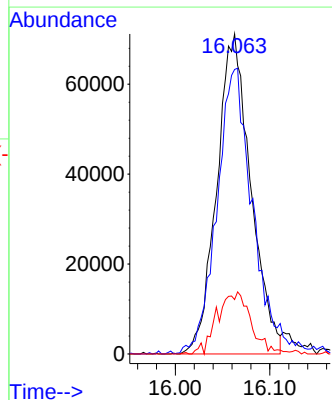
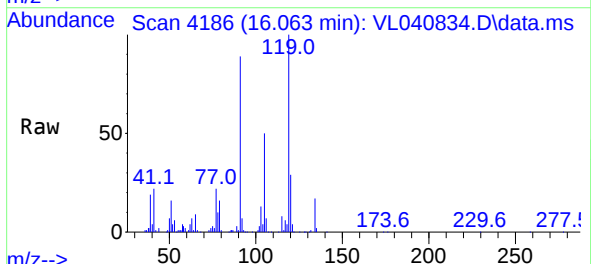
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

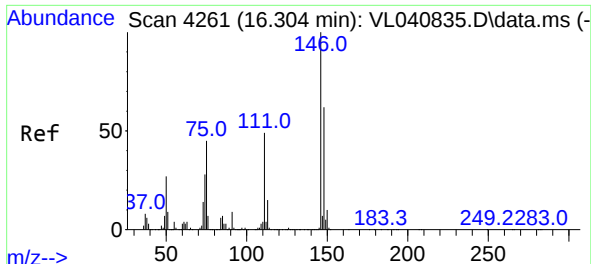
Tgt Ion:120 Resp: 28929
Ion Ratio Lower Upper
120 100
91 946.0 381.1 571.7#



#65
tert-Butylbenzene
Concen: 0.499 ppbv
RT: 16.063 min Scan# 4186
Delta R.T. -0.019 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion:119 Resp: 177684
Ion Ratio Lower Upper
119 100
91 95.0 67.5 101.3
134 19.7 15.9 23.9

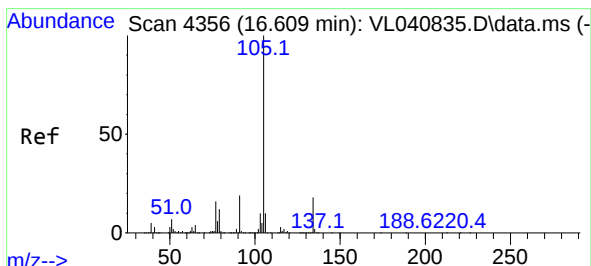
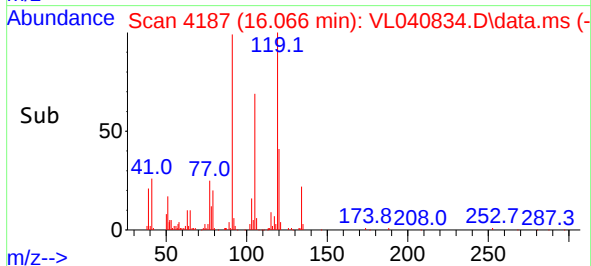
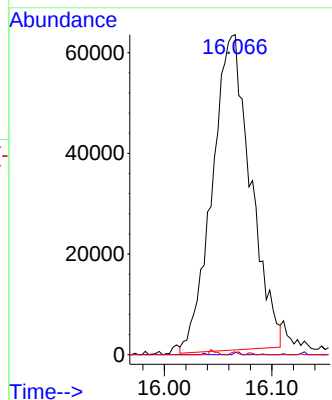
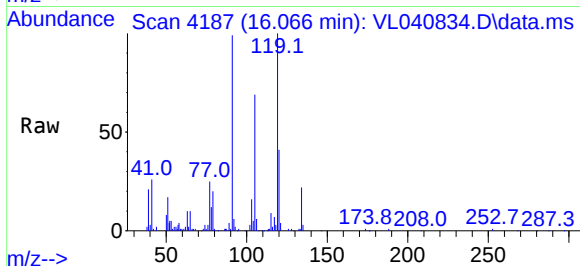




#66
Benzyl Chloride
Concen: 11.855 ppbv
RT: 16.066 min Scan# 4187
Delta R.T. -0.261 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

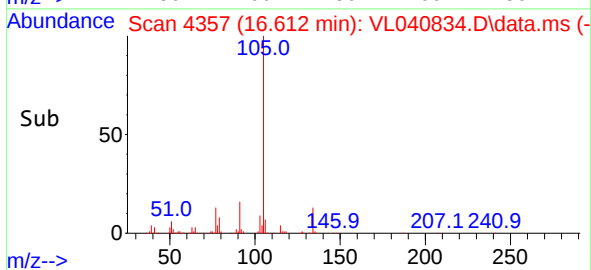
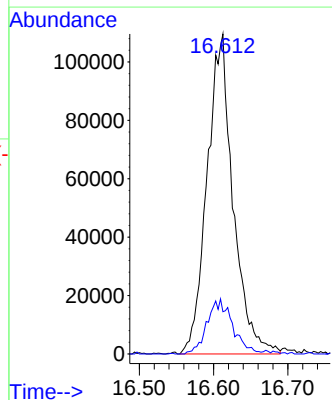
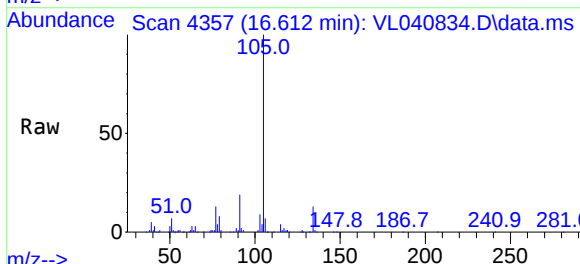
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

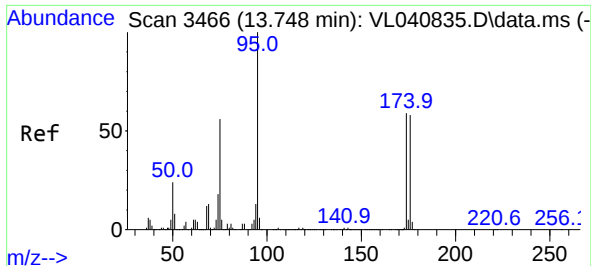
Tgt Ion: 91 Resp: 155694
Ion Ratio Lower Upper
91 100
126 0.1 12.8 19.2#
128 0.2 0.0 0.0#



#67
sec-Butylbenzene
Concen: 0.524 ppbv
RT: 16.612 min Scan# 4357
Delta R.T. -0.016 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 105 Resp: 266918
Ion Ratio Lower Upper
105 100
134 17.4 14.3 21.5

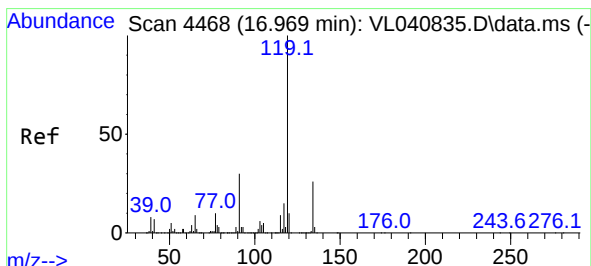
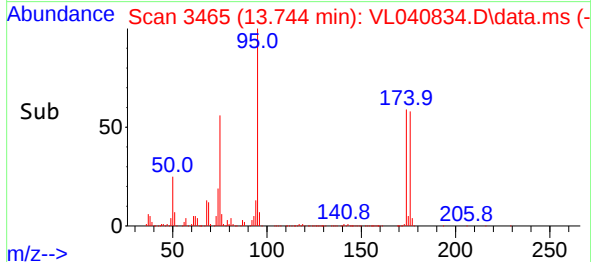
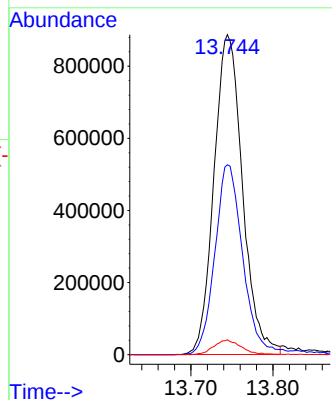
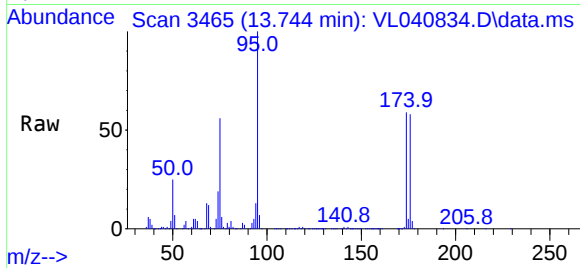




#68
1-Bromo-4-Fluorobenzene
Concen: 10.140 ppbv
RT: 13.744 min Scan# 3465
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

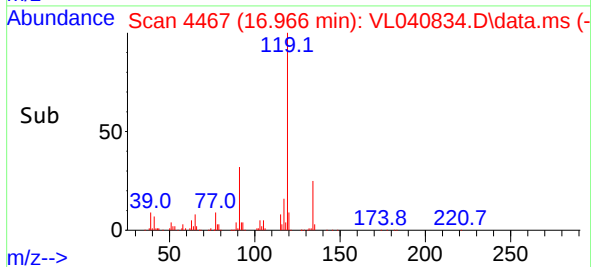
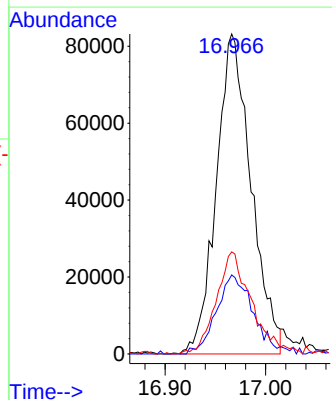
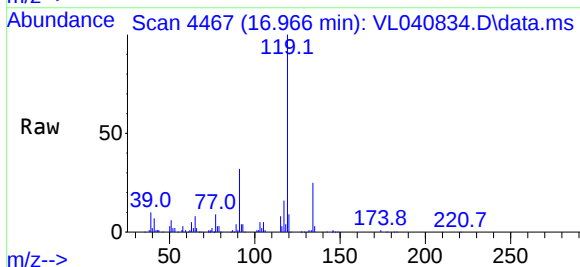
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

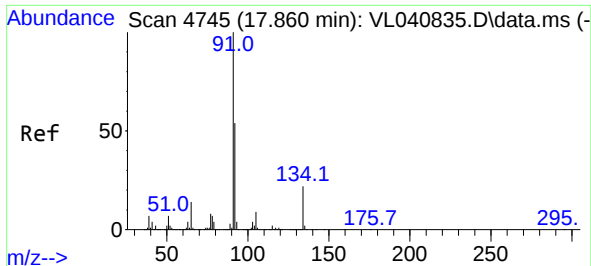
Tgt Ion: 95 Resp: 2147399
Ion Ratio Lower Upper
95 100
174 59.1 47.5 71.3
175 4.5 3.6 5.4



#69
p-Isopropyltoluene
Concen: 0.493 ppbv
RT: 16.966 min Scan# 4467
Delta R.T. -0.019 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 119 Resp: 200041
Ion Ratio Lower Upper
119 100
134 26.9 20.5 30.7
91 33.2 24.7 37.1

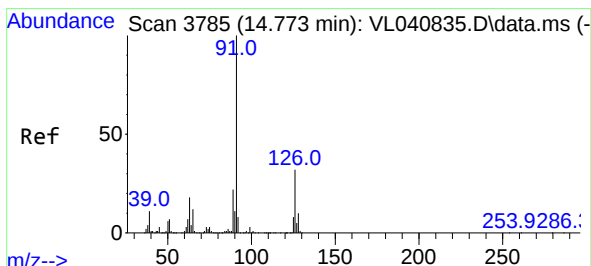
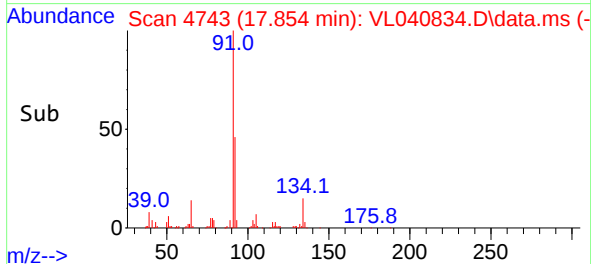
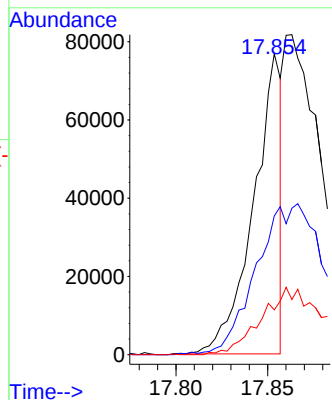
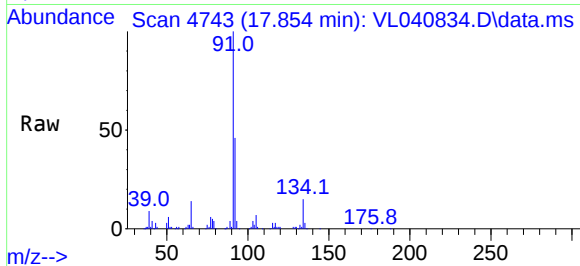




#70
n-Butylbenzene
Concen: 0.189 ppbv
RT: 17.854 min Scan# 41
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

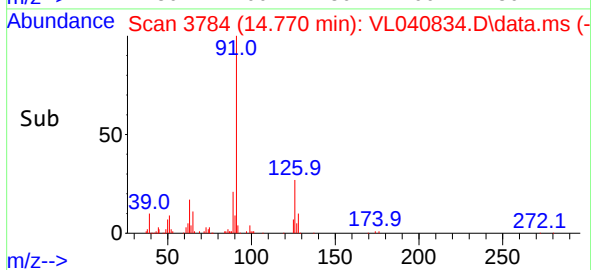
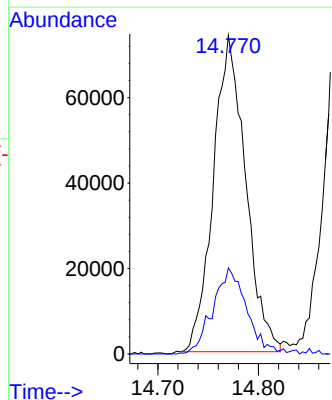
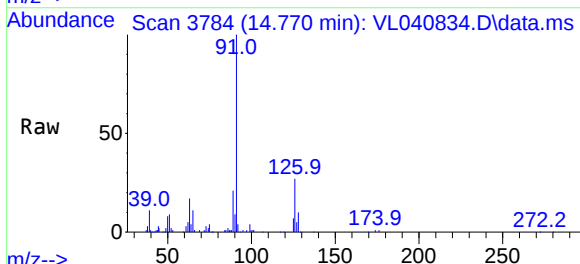
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

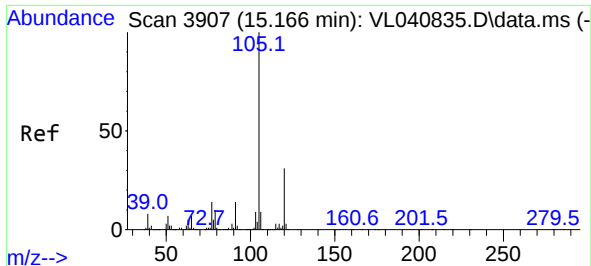
Tgt Ion: 91 Resp: 80857
Ion Ratio Lower Upper
91 100
92 0.0 43.4 65.2#
134 0.0 17.4 26.0#



#71
2-Chlorotoluene
Concen: 0.512 ppbv
RT: 14.770 min Scan# 3784
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 91 Resp: 164965
Ion Ratio Lower Upper
91 100
126 28.4 12.1 48.5



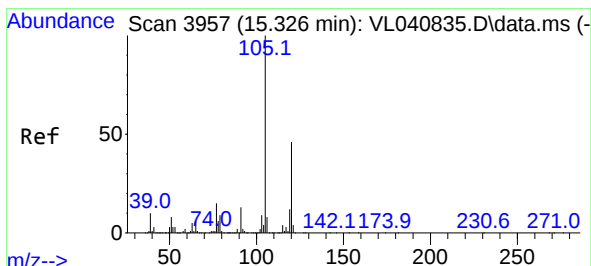
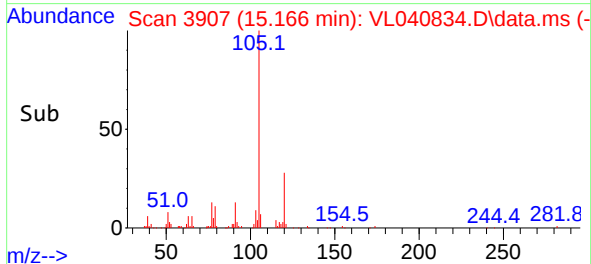
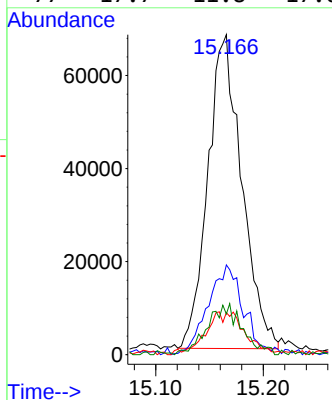
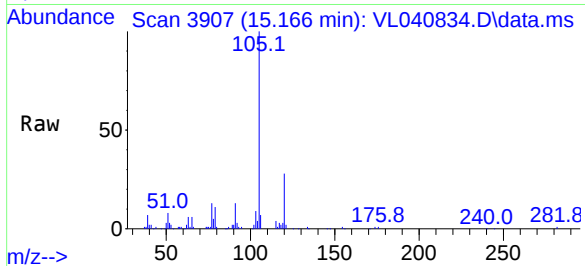


#72
4-Ethyltoluene
Concen: 0.471 ppbv
RT: 15.166 min Scan# 3907
Delta R.T. -0.019 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:105 Resp: 148139

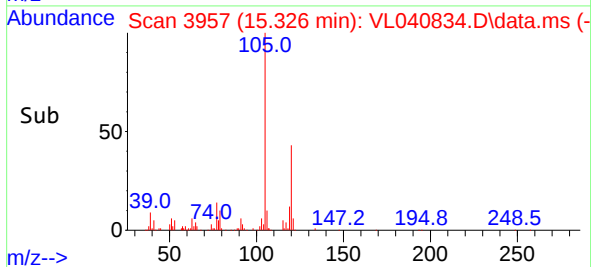
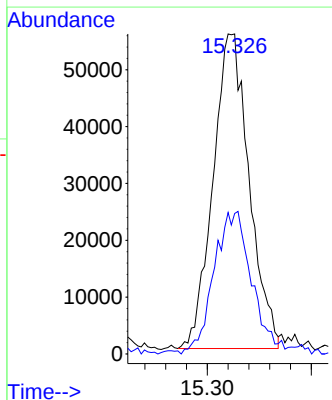
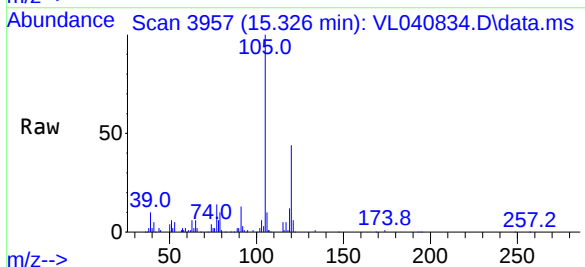
Ion	Ratio	Lower	Upper
105	100		
120	31.5	24.5	36.7
91	15.8	10.6	16.0
77	17.7	11.8	17.6

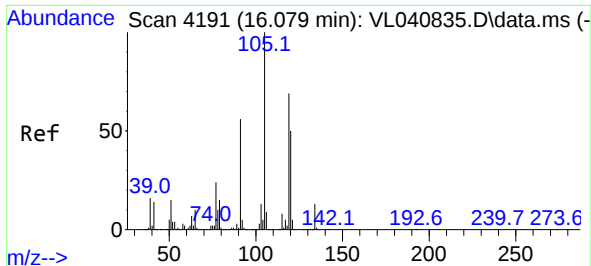


#73
1,3,5-Trimethylbenzene
Concen: 0.481 ppbv
RT: 15.326 min Scan# 3957
Delta R.T. -0.016 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion:105 Resp: 133744

Ion	Ratio	Lower	Upper
105	100		
120	43.7	36.8	55.2



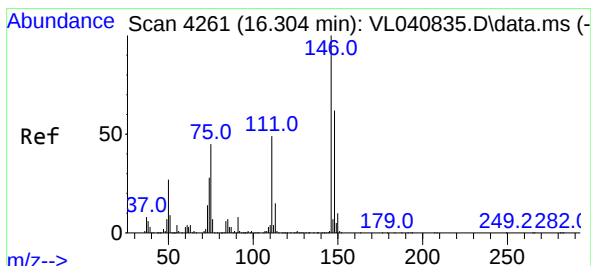
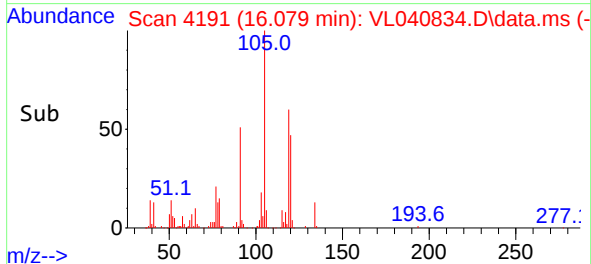
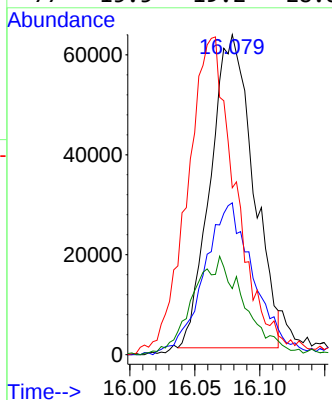
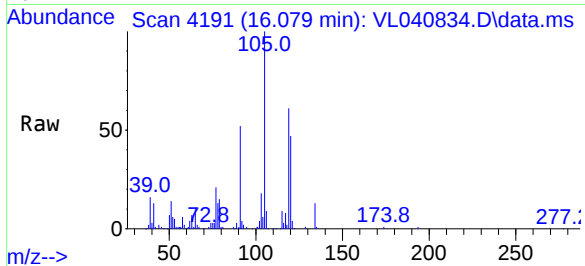


#74
1,2,4-Trimethylbenzene
Concen: 0.462 ppbv
RT: 16.079 min Scan# 4191
Delta R.T. -0.023 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:105 Resp: 143485

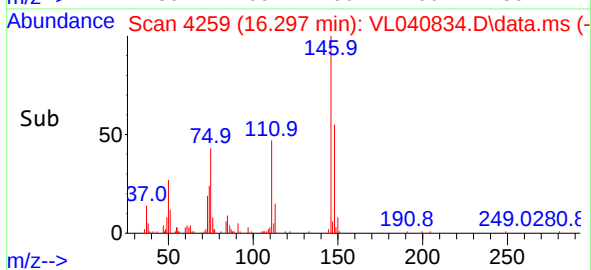
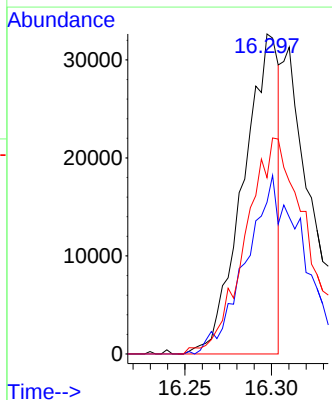
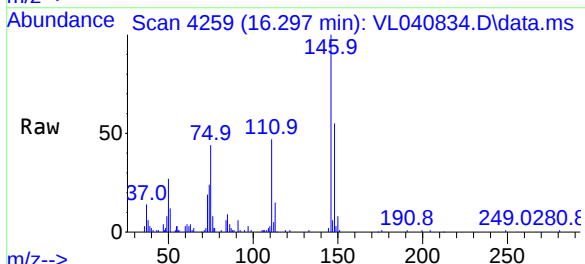
Ion	Ratio	Lower	Upper
105	100		
120	42.6	40.2	60.2
91	47.2	45.7	68.5
77	15.5	19.2	28.8

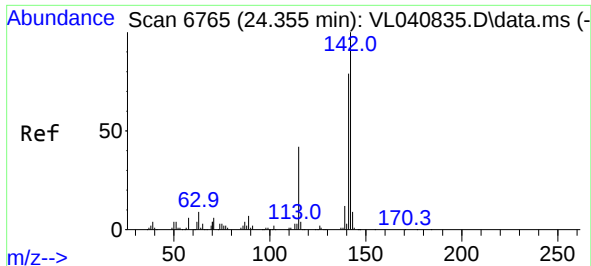


#75
1,3-Dichlorobenzene
Concen: 0.270 ppbv
RT: 16.297 min Scan# 4259
Delta R.T. -0.026 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion:146 Resp: 46240

Ion	Ratio	Lower	Upper
146	100		
111	100.2	24.9	74.8
148	125.3	32.1	96.5

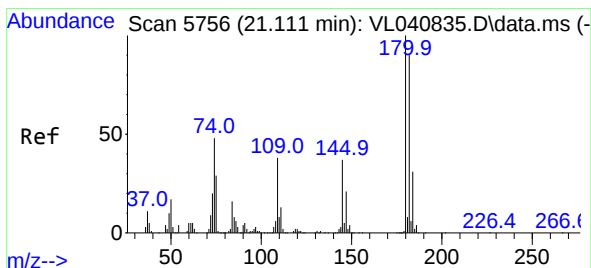
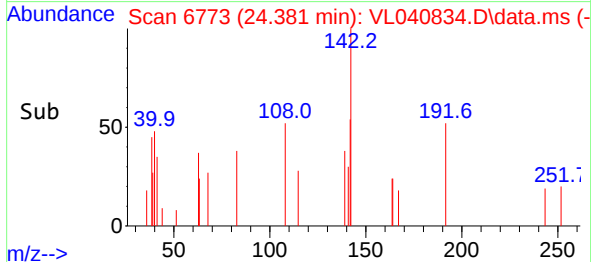
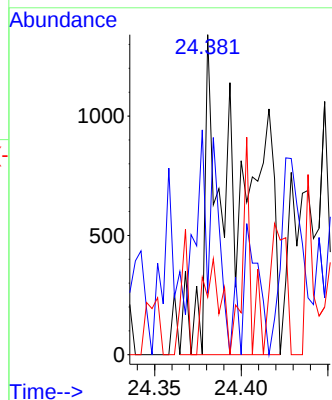
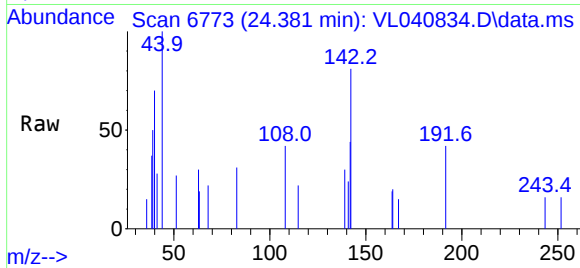




#80
Naphthalene, 2-methyl-
Concen: 0.073 ppbv
RT: 24.381 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 142 Resp: 2067
Ion Ratio Lower Upper
142 100
141 85.1 65.8 98.8
115 52.2 35.6 53.4



#81
1,2,4-Trichlorobenzene
Concen: 0.077 ppbv
RT: 21.111 min Scan# 5756
Delta R.T. -0.016 min
Lab File: VL040834.D
Acq: 13 Nov 2023 10:06

Tgt Ion: 180 Resp: 7482
Ion Ratio Lower Upper
180 100
182 0.0 77.6 116.4#
184 0.0 24.2 36.2#

