

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021425\
 Data File : VL042019.D
 Acq On : 14 Feb 2025 14:27
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 15 01:22:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M

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

QLast Update : Sat Feb 15 01:17:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	94565	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.942	114	277411	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.865	117	247705	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.364	95	203030	9.937	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.547	85	1607	0.099	ppbv	92
3) Chlorodifluoromethane	1.470	51	2147	0.119	ppbv #	82
4) Chloromethane	1.528	50	901	0.142	ppbv	89
5) Vinyl Chloride	1.573	62	855	0.113	ppbv #	86
6) Bromomethane	1.664	94	466	0.159	ppbv	98
7) Chloroethane	1.699	64	292	0.118	ppbv #	1
8) Dichlorotetrafluoroethane	1.547	85	1607	0.112	ppbv	96
11) Trichlorofluoromethane	1.871	101	1999	0.122	ppbv	85
13) Ethanol	1.716	45	1069	1.134	ppbv #	25
14) Bromoethene	1.774	108	558	0.117	ppbv #	36
15) Acetone	1.829	43	3586	0.230	ppbv #	67
16) 1,3-Butadiene	1.606	39	923	0.125	ppbv #	77
17) tert-Butyl alcohol	2.039	59	2077	0.108	ppbv #	1
18) 1,1-Dichloroethene	2.030	96	806	0.130	ppbv #	43
19) Isopropyl Alcohol	1.881	45	1765	0.200	ppbv #	67
20) Methylene Chloride	2.052	84	1405	0.239	ppbv #	81
21) Allyl Chloride	2.088	41	1717	0.153	ppbv #	84
23) Vinyl Acetate	2.454	43	2199	0.260	ppbv #	29
24) 1,1-Dichloroethane	2.399	63	1599	0.119	ppbv #	81
25) Ethyl Acetate	2.829	43	5406	0.126	ppbv #	85
26) Hexane	2.819	57	1400	0.081	ppbv #	25
27) Carbon Disulfide	2.143	76	1972	0.122	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	1154	0.110	ppbv #	1
29) Chloroform	2.842	83	2872	0.115	ppbv	90
30) Cyclohexane	3.842	84	642	0.043	ppbv #	1
31) cis-1,2-Dichloroethene	2.716	61	655	0.039	ppbv #	82
32) 1,1,1-Trichloroethane	3.357	97	2858	0.103	ppbv	96
34) 2-Butanone	2.554	43	3581	0.150	ppbv	94
35) Carbon Tetrachloride	3.745	117	2402	0.091	ppbv #	57
36) Benzene	3.641	78	4406	0.131	ppbv #	82
37) 1,2-Dichloroethane	3.201	62	1141	0.060	ppbv	97
38) Trichloroethene	4.525	130	991	0.072	ppbv #	72
39) 1,2-Dichloropropane	3.942	63	70744	5.675	ppbv #	23
42) Bromodichloromethane	4.467	83	1972	0.076	ppbv #	85
43) Methyl Methacrylate	4.855	69	499	0.033	ppbv #	1
44) 2,2,4-Trimethylpentane	4.622	57	6208	0.109	ppbv #	81
45) t-1,3-Dichloropropene	6.389	75	971	0.067	ppbv #	77
46) cis-1,3-Dichloropropene	5.587	75	1022	0.056	ppbv #	42
47) 1,1,2-Trichloroethane	6.558	97	667	0.051	ppbv #	70
48) Dibromochloromethane	7.370	129	1053	0.049	ppbv #	1
49) Bromoform	9.464	173	992	0.056	ppbv #	41
52) Tetrachloroethene	8.202	164	357	0.030	ppbv #	62
53) Toluene	6.910	91	2657	0.067	ppbv #	22

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021425\
 Data File : VL042019.D
 Acq On : 14 Feb 2025 14:27
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 15 01:22:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Sat Feb 15 01:17:03 2025
 Response via : Initial Calibration

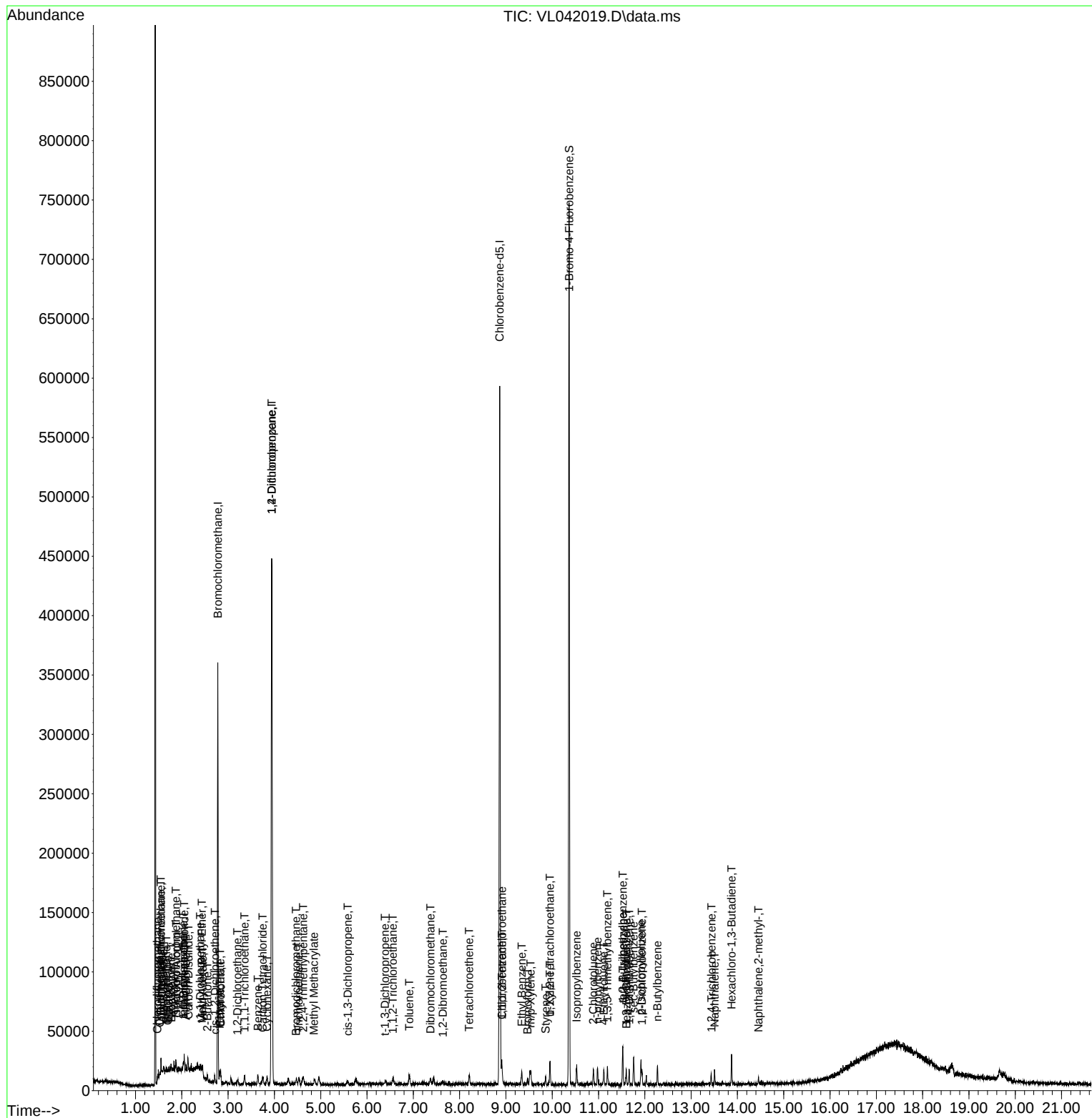
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

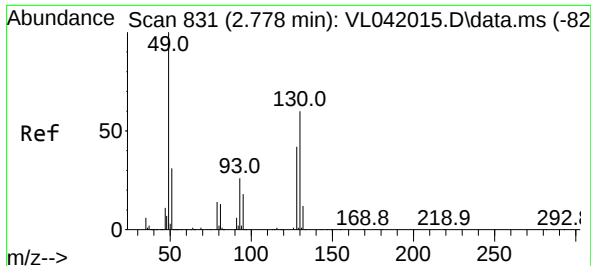
54) 1,2-Dibromoethane	7.639	107	905	0.050	ppbv	87
56) 1,1,1,2-Tetrachloroethane	8.914	131	1813	0.103	ppbv #	57
57) Chlorobenzene	8.914	112	1042	0.036	ppbv	90
58) Ethyl Benzene	9.341	91	5060	0.093	ppbv	100
59) m/p-Xylene	9.532	91	4881	0.114	ppbv #	31
60) o-Xylene	9.953	91	4946	0.115	ppbv	93
61) Styrene	9.856	104	1395	0.068	ppbv #	27
62) Isopropylbenzene	10.526	105	6865	0.106	ppbv	94
63) 1,1,2,2-Tetrachloroethane	9.953	83	3139	0.113	ppbv #	82
64) n-propylbenzene	10.979	120	1539	0.097	ppbv	91
65) tert-Butylbenzene	11.523	119	6530	0.116	ppbv	98
66) Benzyl Chloride	11.604	91	380	0.067	ppbv #	60
67) sec-Butylbenzene	11.756	105	8422	0.106	ppbv	97
69) p-Isopropyltoluene	11.918	119	7153	0.110	ppbv #	89
70) n-Butylbenzene	12.274	91	5686	0.089	ppbv	95
71) 2-Chlorotoluene	10.888	91	4927	0.101	ppbv	88
72) 4-Ethyltoluene	11.112	105	5199	0.103	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.193	105	5025	0.115	ppbv	98
74) 1,2,4-Trimethylbenzene	11.526	105	5206	0.111	ppbv #	84
75) 1,3-Dichlorobenzene	11.600	146	2658	0.105	ppbv	92
76) 1,4-Dichlorobenzene	11.662	146	2142	0.087	ppbv	81
77) 1,2-Dichlorobenzene	11.937	146	2703	0.112	ppbv	92
78) Hexachloro-1,3-Butadiene	13.872	225	2047	0.103	ppbv #	81
79) Naphthalene	13.507	128	4590	0.100	ppbv #	93
80) Naphthalene,2-methyl-	14.455	142	1738	0.083	ppbv	93
81) 1,2,4-Trichlorobenzene	13.439	180	1245	0.066	ppbv #	61

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

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Feb 15 01:22:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Sat Feb 15 01:17:03 2025
Response via : Initial Calibration

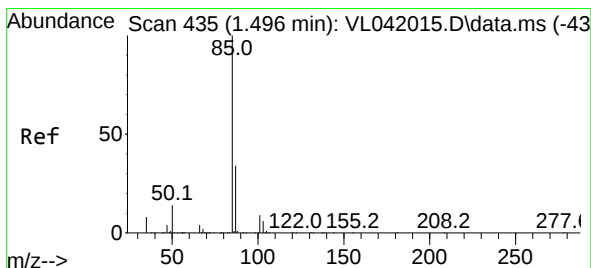
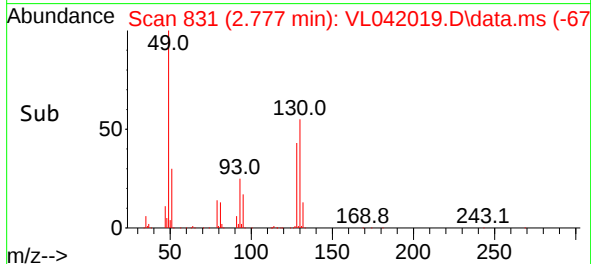
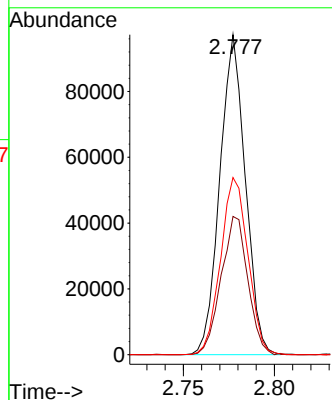
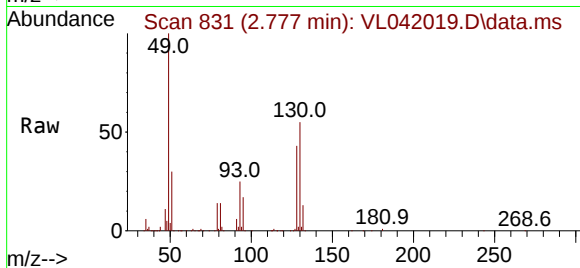




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. -0.001 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

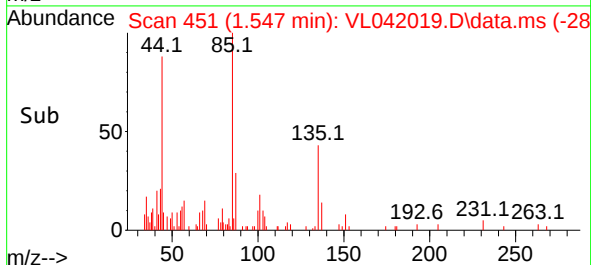
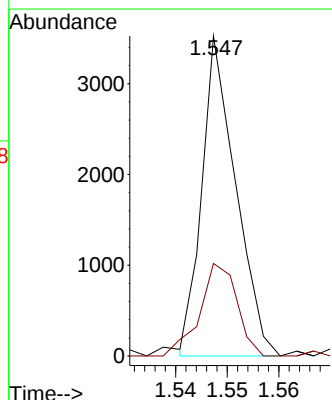
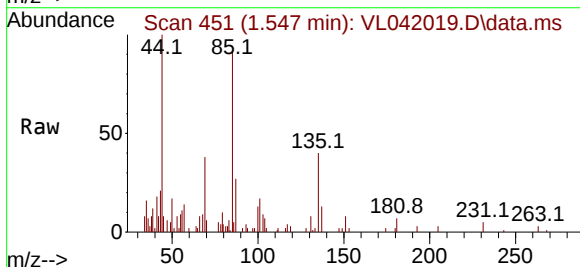
Instrument :
MSVOA_L
ClientSampleId :

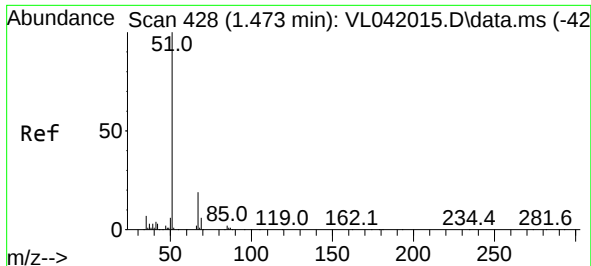
Tgt Ion: 49 Resp: 94565
Ion Ratio Lower Upper
49 100
128 45.4 22.7 68.0
130 59.4 29.9 89.8



#2
Dichlorodifluoromethane
Concen: 0.099 ppbv
RT: 1.547 min Scan# 451
Delta R.T. 0.051 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion: 85 Resp: 1607
Ion Ratio Lower Upper
85 100
87 28.9 26.9 40.3

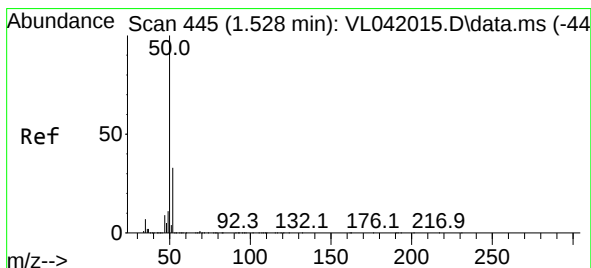
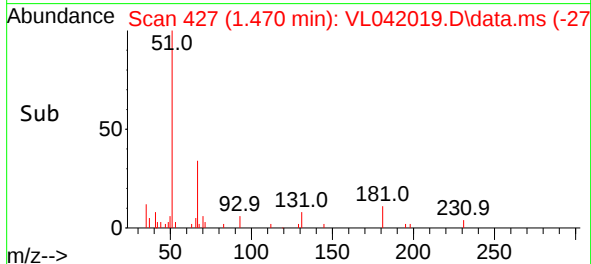
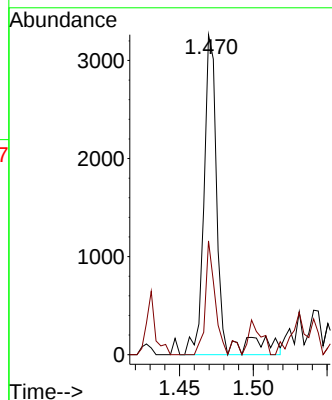
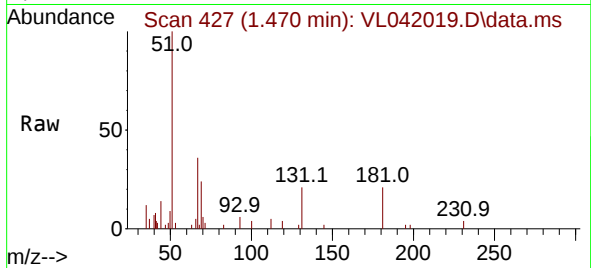




#3
Chlorodifluoromethane
Concen: 0.119 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

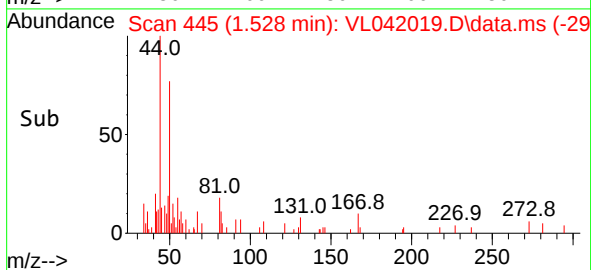
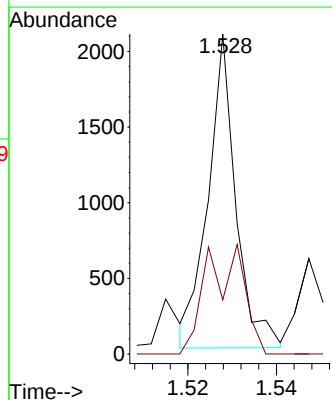
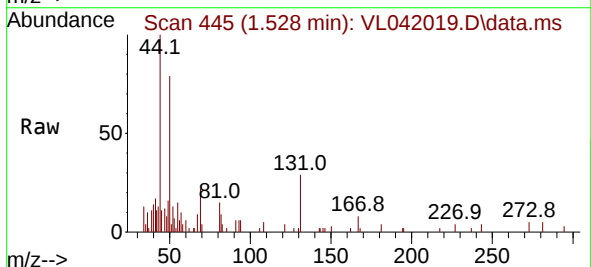
Instrument :
MSVOA_L
ClientSampleId :

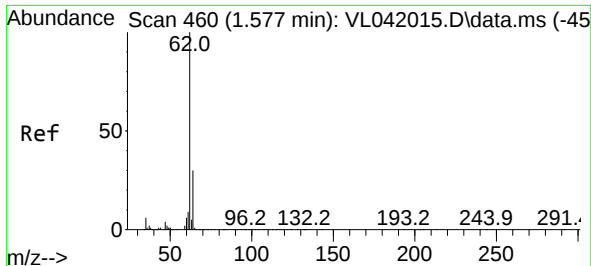
Tgt Ion: 51 Resp: 2147
Ion Ratio Lower Upper
51 100
67 26.7 15.0 22.6#



#4
Chloromethane
Concen: 0.142 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion: 50 Resp: 901
Ion Ratio Lower Upper
50 100
52 26.3 26.2 39.2

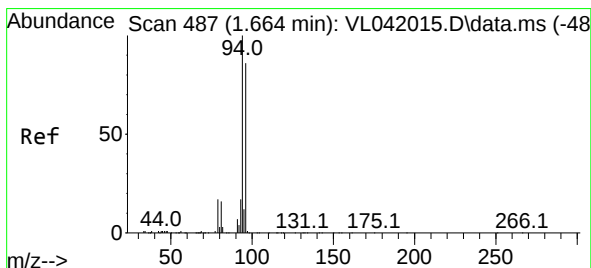
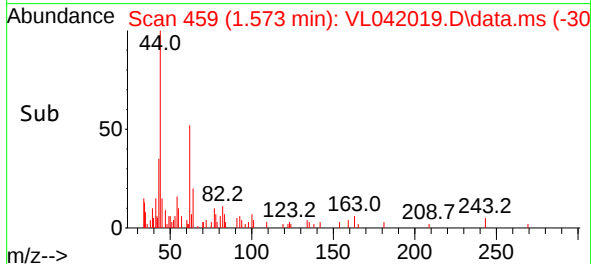
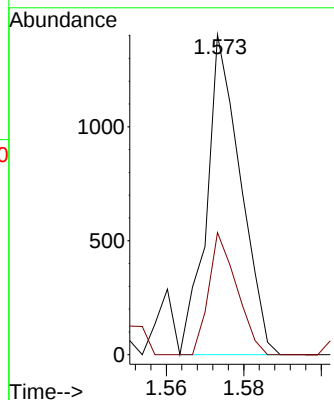
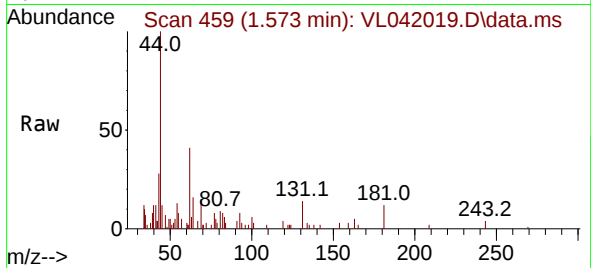




#5
 Vinyl Chloride
 Concen: 0.113 ppbv
 RT: 1.573 min Scan# 41
 Delta R.T. -0.004 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

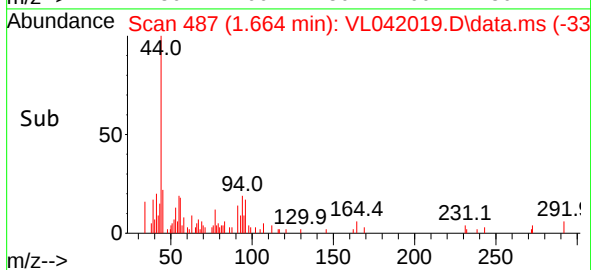
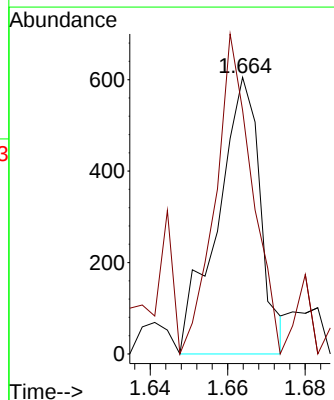
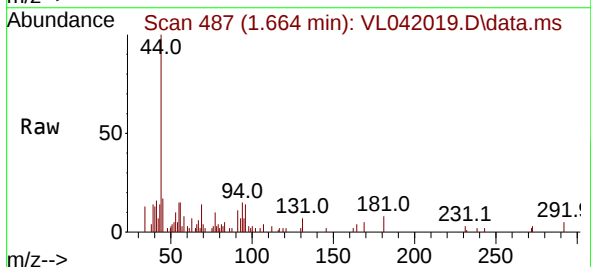
Instrument :
 MSVOA_L
 ClientSampleId :

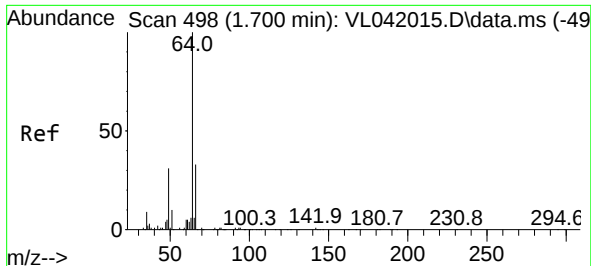
Tgt Ion: 62 Resp: 855
 Ion Ratio Lower Upper
 62 100
 64 38.2 24.4 36.6#



#6
 Bromomethane
 Concen: 0.159 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.000 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

Tgt Ion: 94 Resp: 466
 Ion Ratio Lower Upper
 94 100
 96 88.1 69.0 103.6

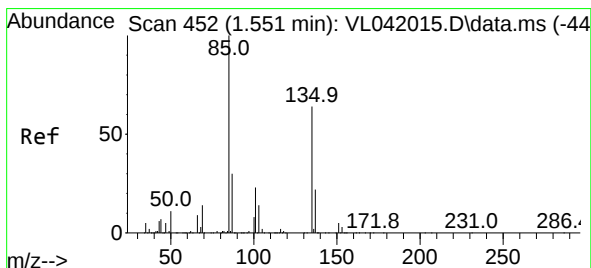
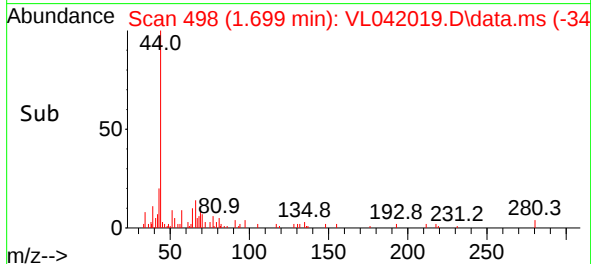
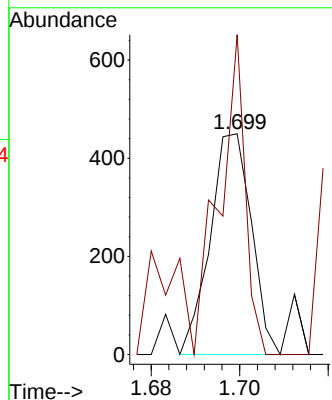
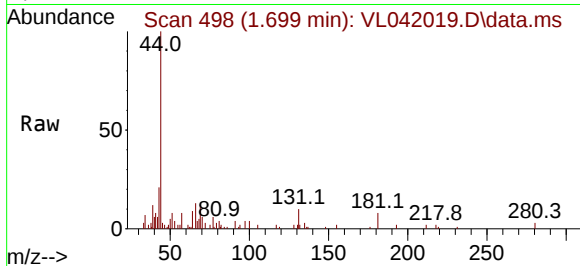




#7
Chloroethane
Concen: 0.118 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

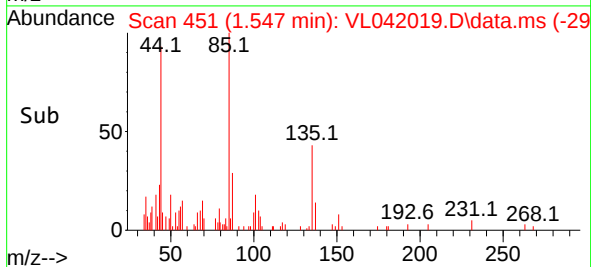
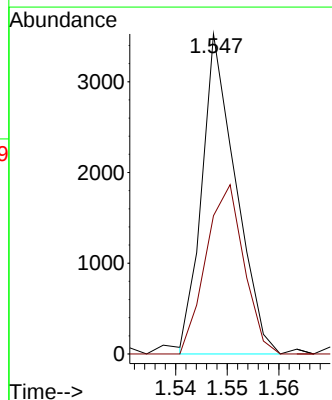
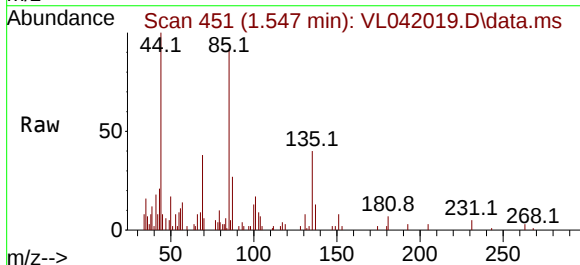
Instrument :
MSVOA_1
ClientSampleId :

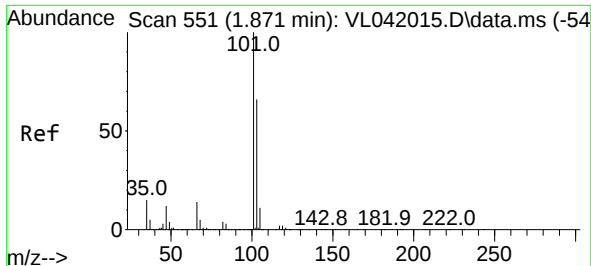
Tgt Ion: 64 Resp: 292
Ion Ratio Lower Upper
64 100
66 144.9 26.5 39.7#



#8
Dichlorotetrafluoroethane
Concen: 0.112 ppbv
RT: 1.547 min Scan# 451
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

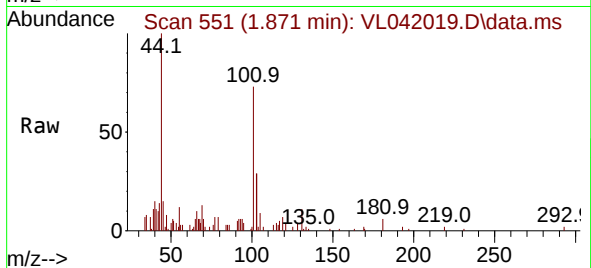
Tgt Ion: 85 Resp: 1607
Ion Ratio Lower Upper
85 100
135 60.2 50.9 76.3



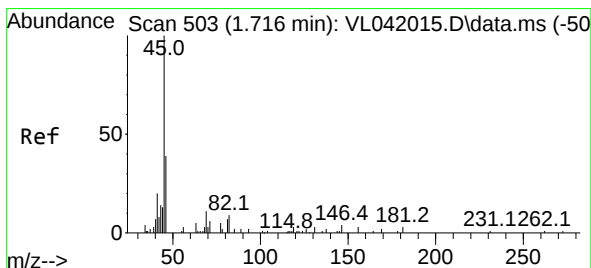
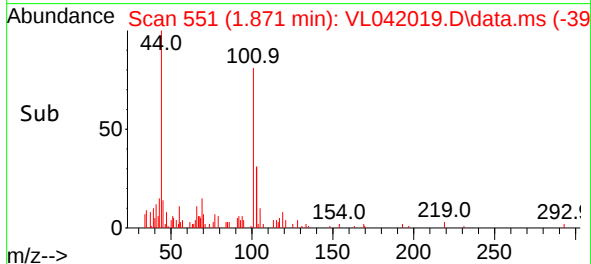
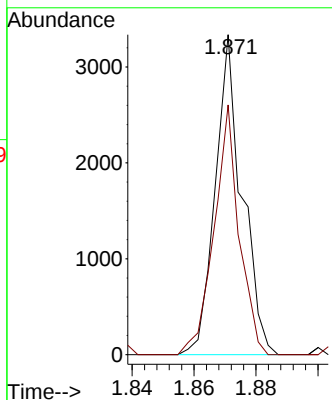


#11
 Trichlorofluoromethane
 Concen: 0.122 ppbv
 RT: 1.871 min Scan# 551
 Delta R.T. -0.000 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

Instrument :
 MSVOA_L
 ClientSampleId :

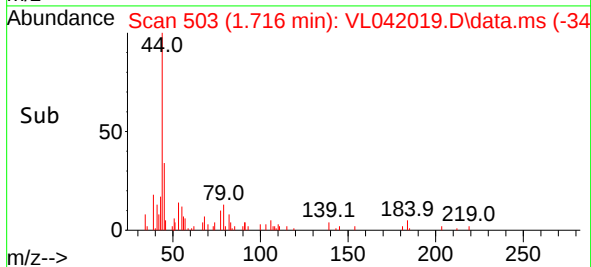
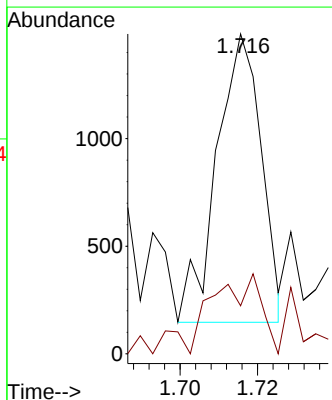
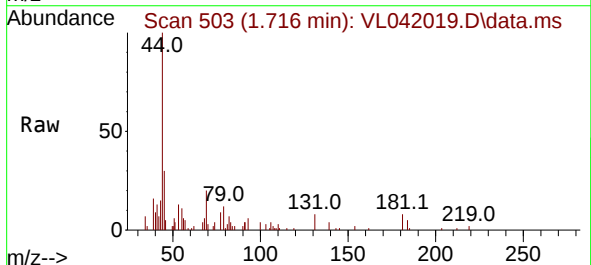


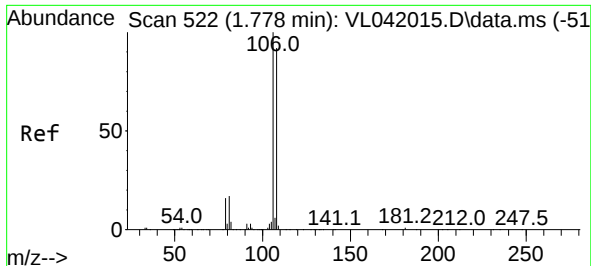
Tgt Ion:101 Resp: 1999
 Ion Ratio Lower Upper
 101 100
 103 78.0 52.9 79.3



#13
 Ethanol
 Concen: 1.134 ppbv
 RT: 1.716 min Scan# 503
 Delta R.T. -0.000 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

Tgt Ion: 45 Resp: 1069
 Ion Ratio Lower Upper
 45 100
 46 0.0 21.3 85.1#





#14

Bromoethene

Concen: 0.117 ppbv

RT: 1.774 min Scan# 51

Delta R.T. -0.004 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

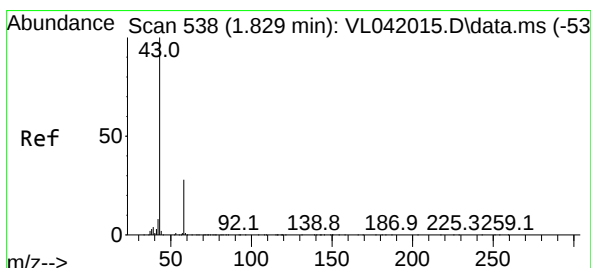
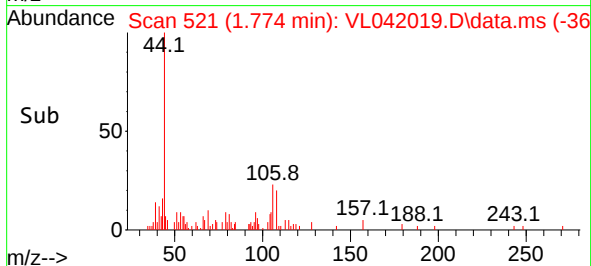
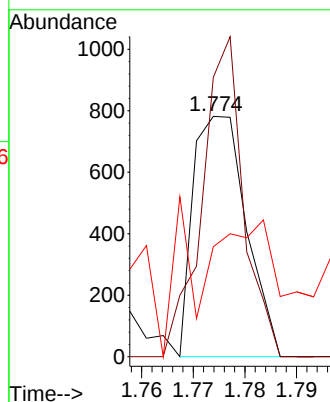
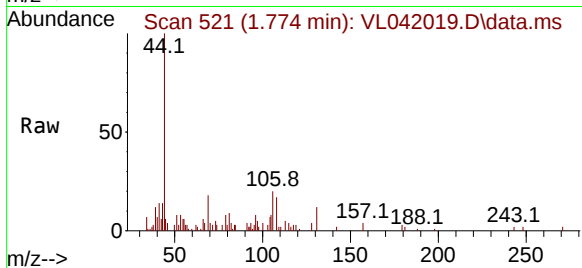
Tgt Ion:108 Resp: 558

Ion Ratio Lower Upper

108 100

106 103.4 85.0 127.6

79 193.5 17.3 25.9#



#15

Acetone

Concen: 0.230 ppbv

RT: 1.829 min Scan# 538

Delta R.T. -0.000 min

Lab File: VL042019.D

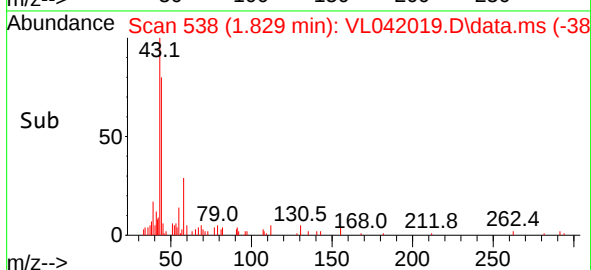
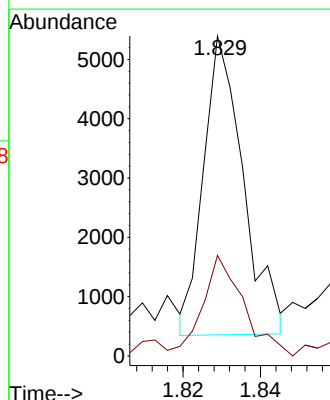
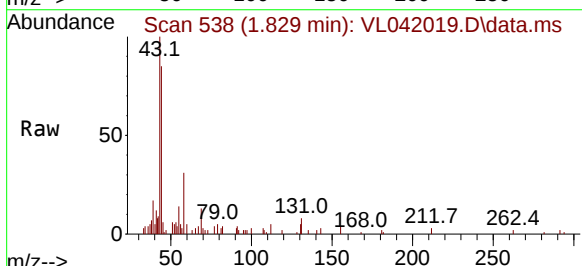
Acq: 14 Feb 2025 14:27

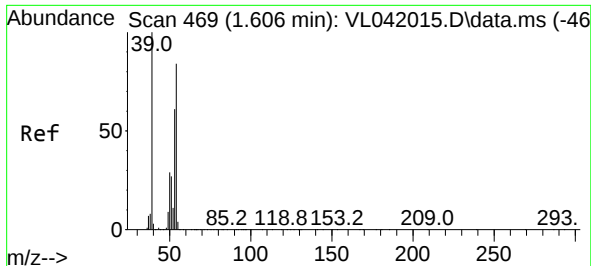
Tgt Ion: 43 Resp: 3586

Ion Ratio Lower Upper

43 100

58 46.1 22.9 34.3#

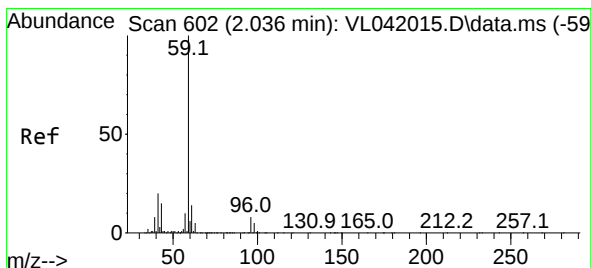
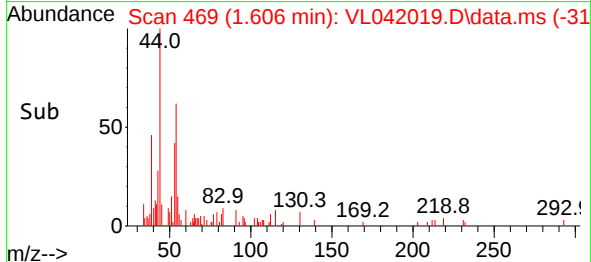
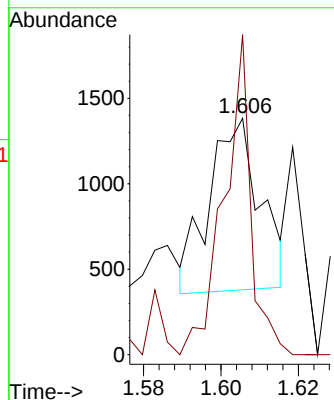
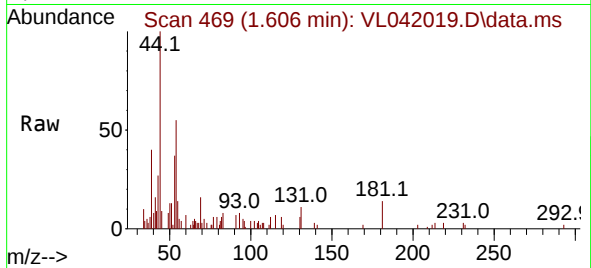




#16
1,3-Butadiene
Concen: 0.125 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

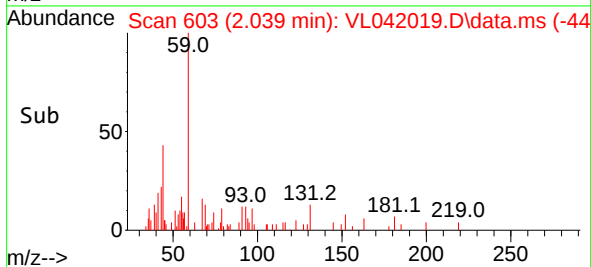
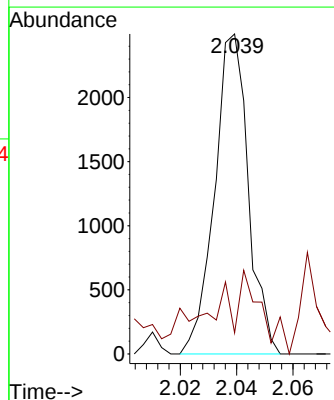
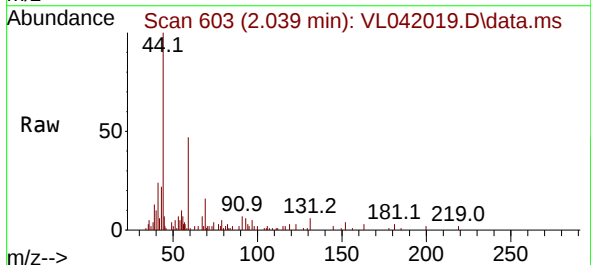
Instrument :
MSVOA_L
ClientSampleId :

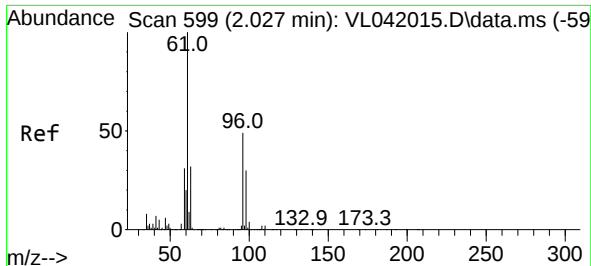
Tgt Ion: 39 Resp: 923
Ion Ratio Lower Upper
39 100
54 93.5 59.4 89.2#



#17
tert-Butyl alcohol
Concen: 0.108 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion: 59 Resp: 2077
Ion Ratio Lower Upper
59 100
57 57.7 9.2 13.8#





#18

1,1-Dichloroethene

Concen: 0.130 ppbv

RT: 2.030 min Scan# 600

Delta R.T. 0.003 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

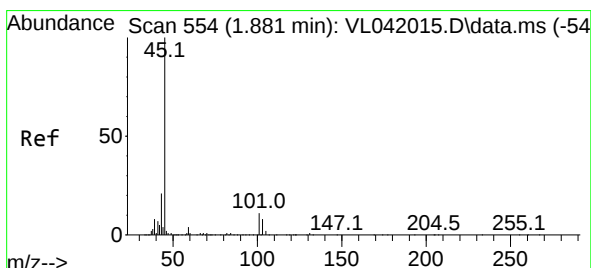
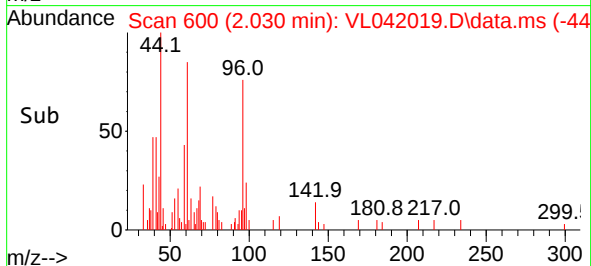
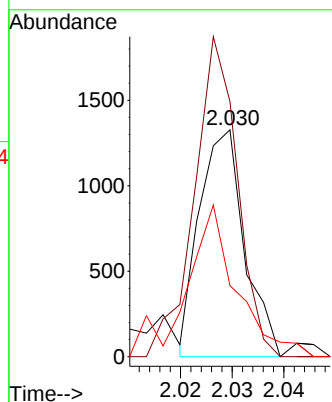
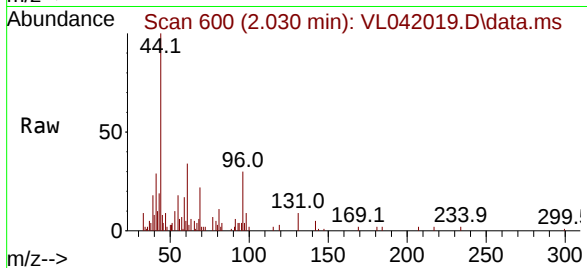
Tgt Ion: 96 Resp: 806

Ion Ratio Lower Upper

96 100

61 112.4 163.5 245.3#

98 24.9 49.4 74.0#



#19

Isopropyl Alcohol

Concen: 0.200 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL042019.D

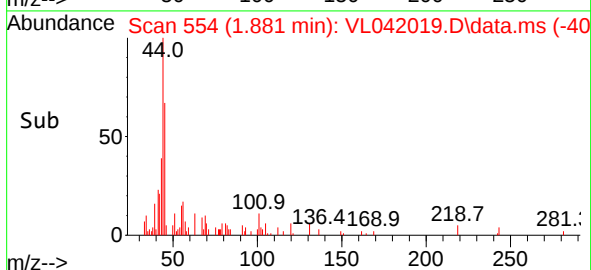
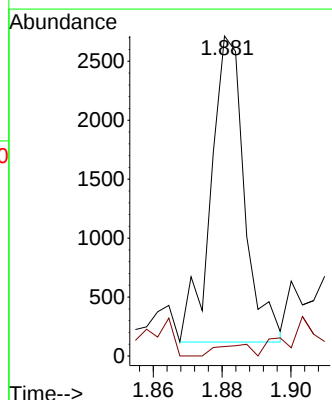
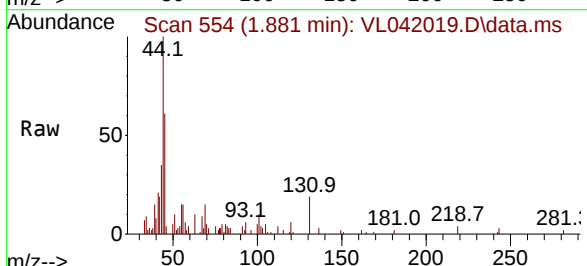
Acq: 14 Feb 2025 14:27

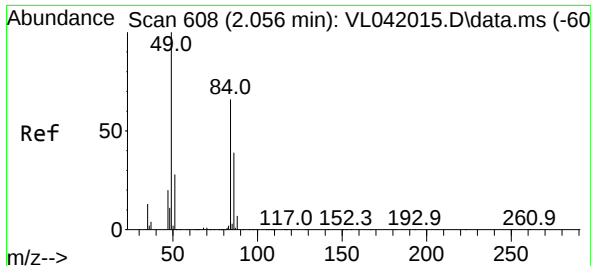
Tgt Ion: 45 Resp: 1765

Ion Ratio Lower Upper

45 100

58 23.8 36.2 54.4#





#20

Methylene Chloride

Concen: 0.239 ppbv

RT: 2.052 min Scan# 608

Delta R.T. -0.004 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 84 Resp: 1405

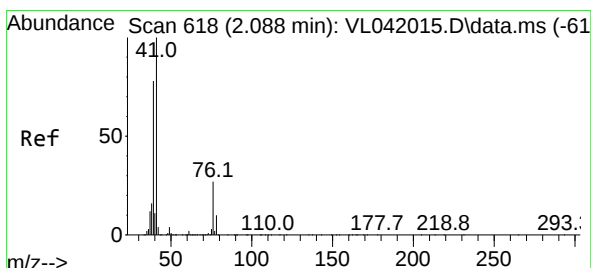
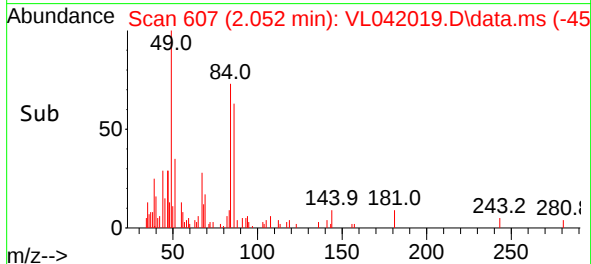
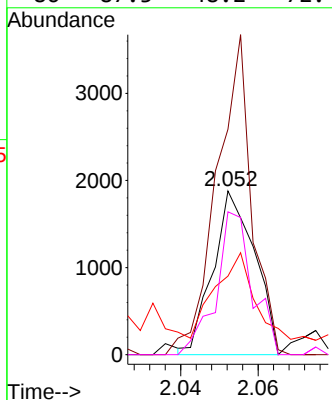
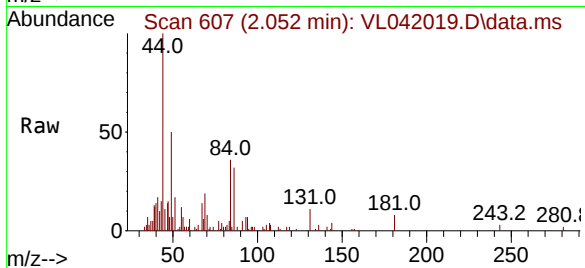
Ion Ratio Lower Upper

84 100

49 134.8 121.0 181.4

51 34.3 35.1 52.7#

86 87.3 48.2 72.4#



#21

Allyl Chloride

Concen: 0.153 ppbv

RT: 2.088 min Scan# 618

Delta R.T. -0.000 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

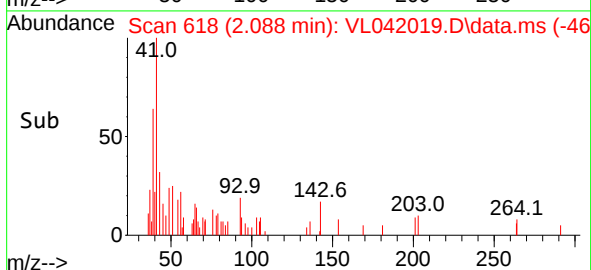
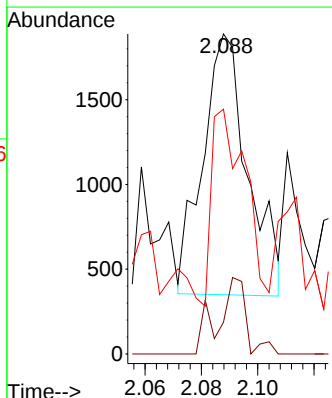
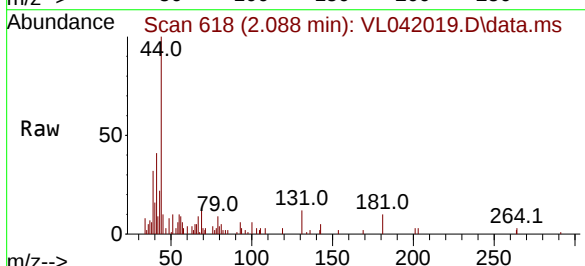
Tgt Ion: 41 Resp: 1717

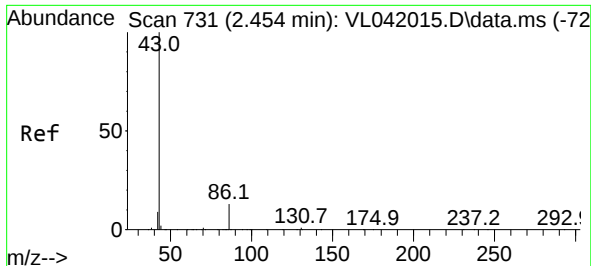
Ion Ratio Lower Upper

41 100

76 18.1 23.7 35.5#

39 90.8 63.0 94.6

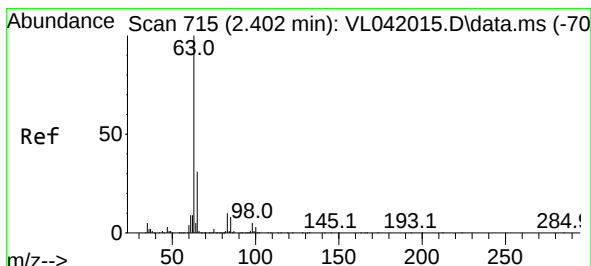
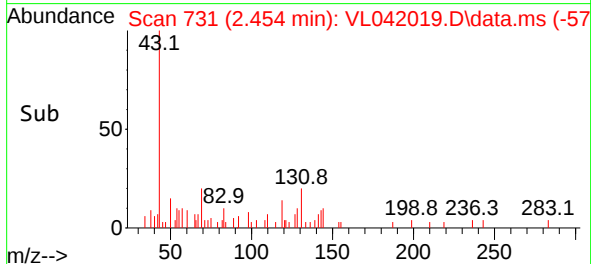
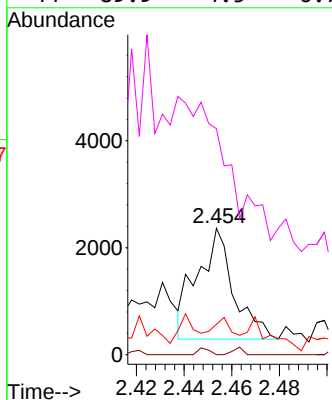
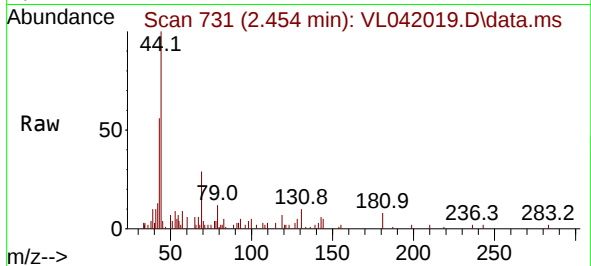




#23
Vinyl Acetate
Concen: 0.260 ppbv
RT: 2.454 min Scan# 714
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

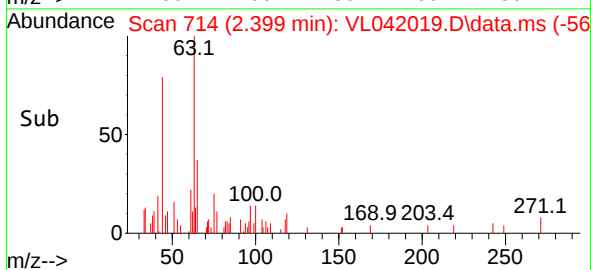
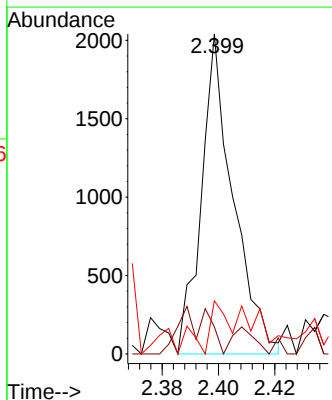
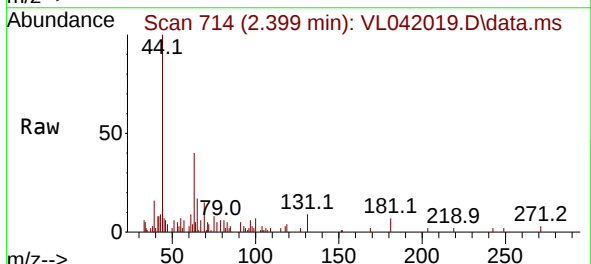
Instrument :
MSVOA_L
ClientSampleId :

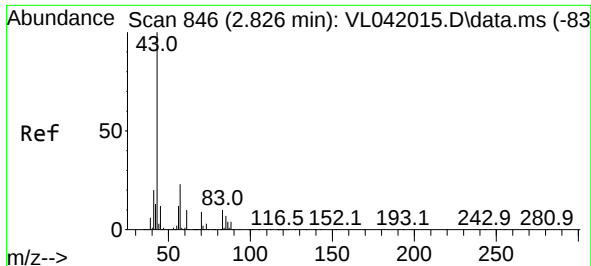
Tgt Ion: 43	Resp: 2199
Ion Ratio	Lower Upper
43	100
86	0.0 8.1 12.1#
42	12.9 7.5 11.3#
44	89.9 4.5 6.7#



#24
1,1-Dichloroethane
Concen: 0.119 ppbv
RT: 2.399 min Scan# 714
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion: 63	Resp: 1599
Ion Ratio	Lower Upper
63	100
98	3.5 2.4 7.2
100	16.6 1.6 4.8#

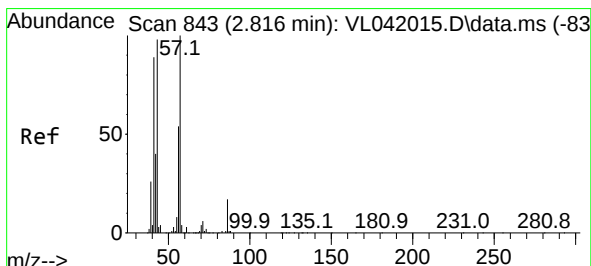
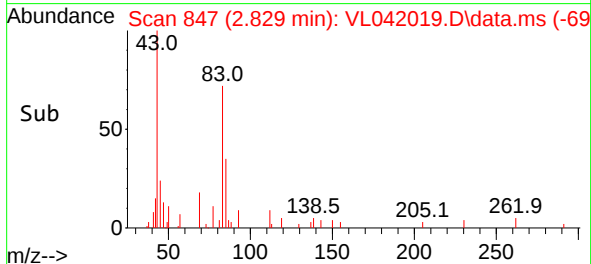
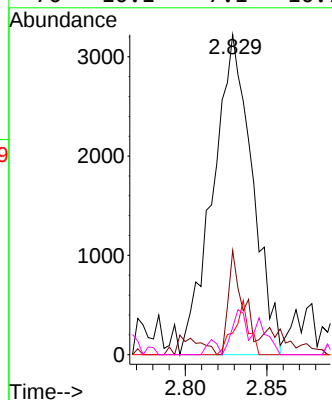
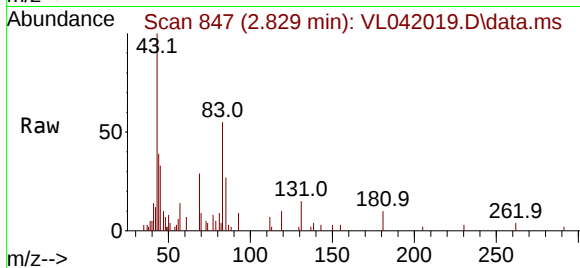




#25
Ethyl Acetate
Concen: 0.126 ppbv
RT: 2.829 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

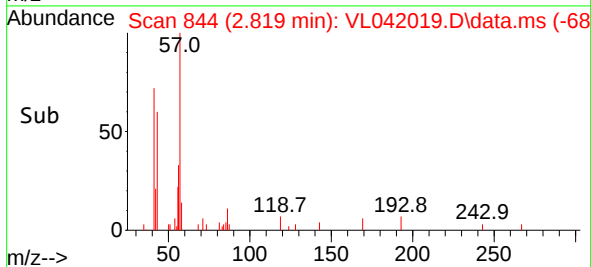
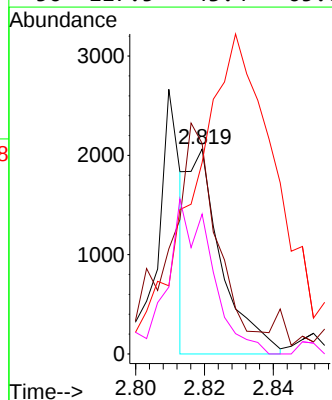
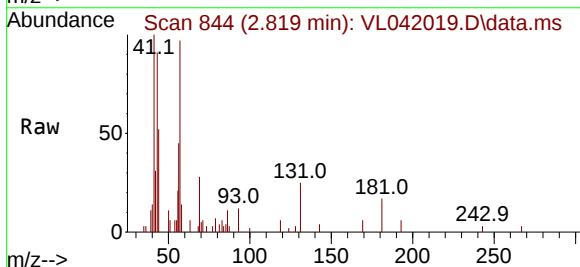
Instrument :
MSVOA_L
ClientSampleId :

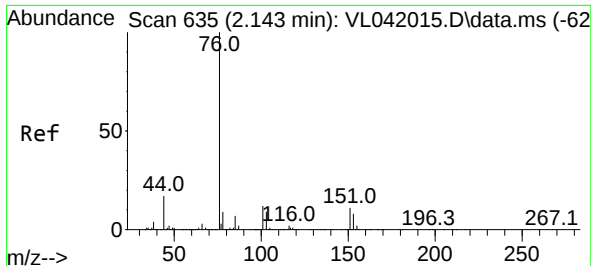
Tgt Ion:	43	Resp:	5406
Ion	Ratio	Lower	Upper
43	100		
45	22.0	8.1	12.1#
61	6.3	7.5	11.3#
70	10.1	7.1	10.7



#26
Hexane
Concen: 0.081 ppbv
RT: 2.819 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion:	57	Resp:	1400
Ion	Ratio	Lower	Upper
57	100		
41	172.0	73.2	109.8#
43	371.6	200.8	301.2#
56	117.5	43.4	65.0#

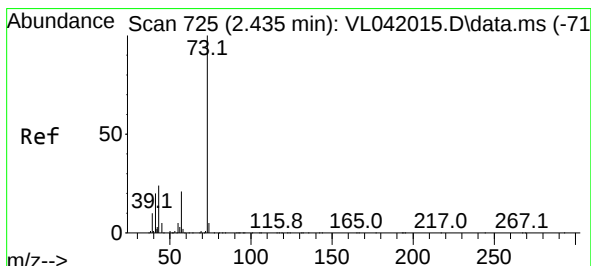
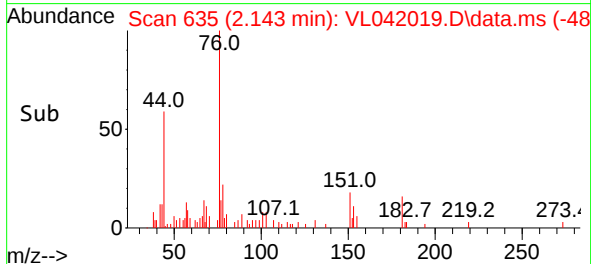
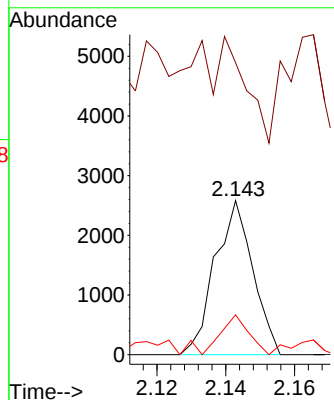
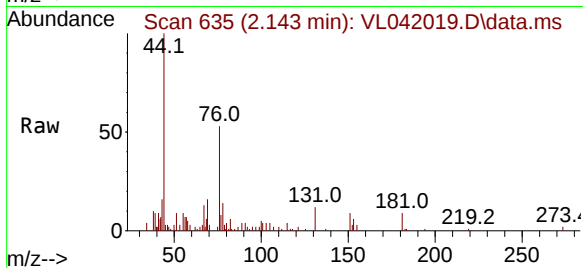




#27
Carbon Disulfide
Concen: 0.122 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

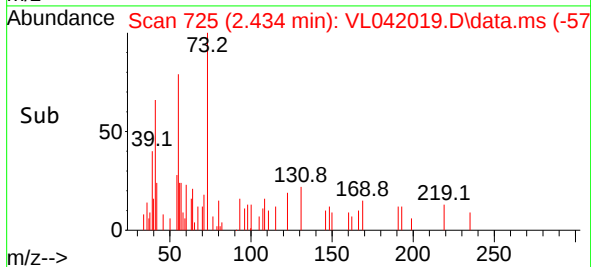
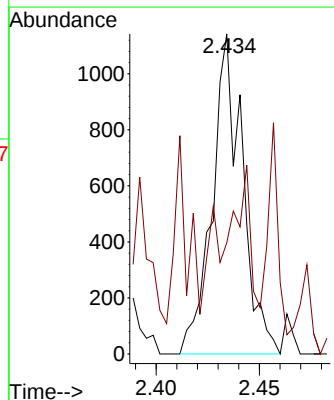
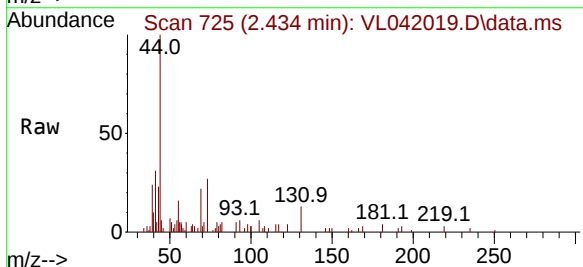
Instrument :
MSVOA_L
ClientSampleId :

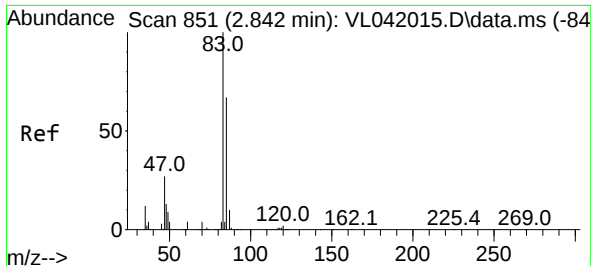
Tgt Ion: 76 Resp: 1972
Ion Ratio Lower Upper
76 100
44 618.6 18.1 27.1#
78 40.2 9.5 14.3#



#28
Methyl tert-Butyl Ether
Concen: 0.110 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion: 73 Resp: 1154
Ion Ratio Lower Upper
73 100
57 84.1 18.3 27.5#





#29

Chloroform

Concen: 0.115 ppbv

RT: 2.842 min Scan# 851

Delta R.T. -0.000 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

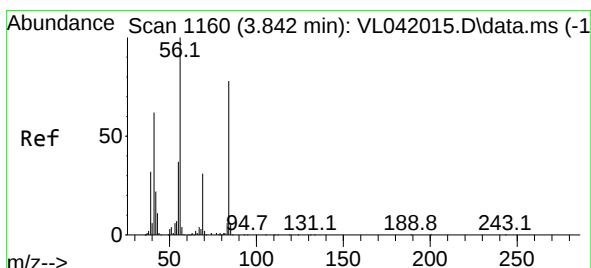
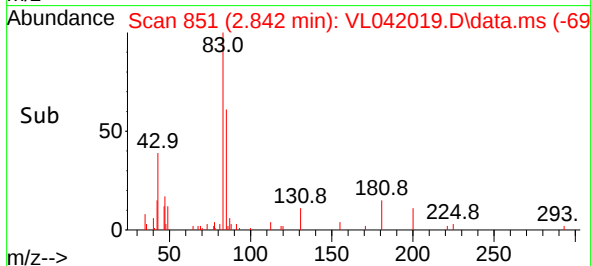
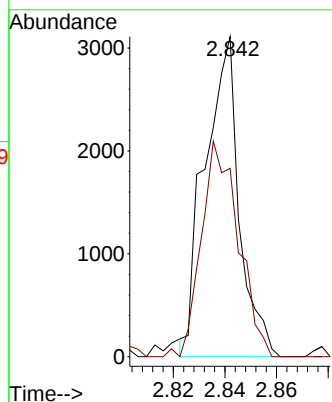
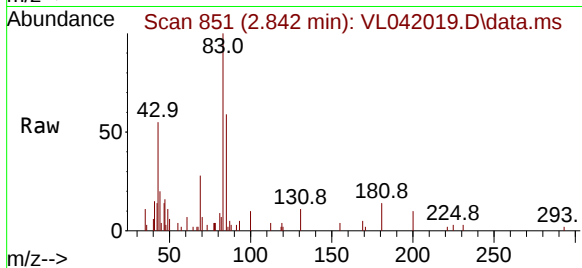
ClientSampleId :

Tgt Ion: 83 Resp: 2872

Ion Ratio Lower Upper

83 100

85 58.9 53.8 80.6



#30

Cyclohexane

Concen: 0.043 ppbv

RT: 3.842 min Scan# 1160

Delta R.T. -0.000 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

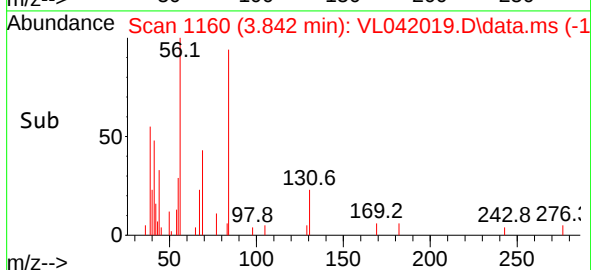
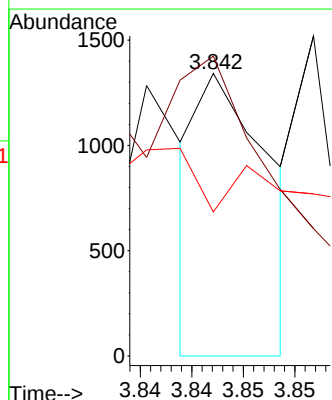
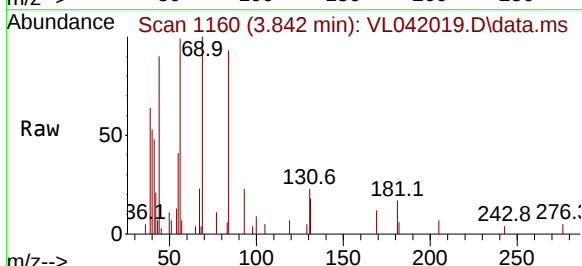
Tgt Ion: 84 Resp: 642

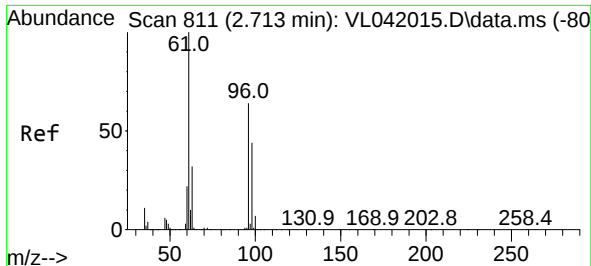
Ion Ratio Lower Upper

84 100

56 307.9 99.5 149.3#

41 326.9 62.2 93.2#

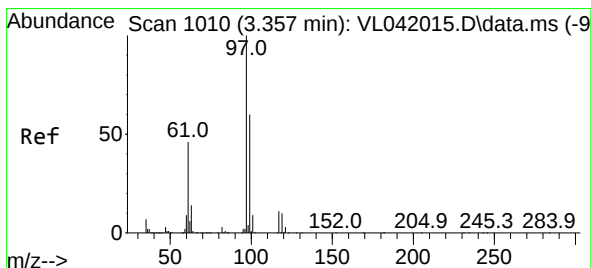
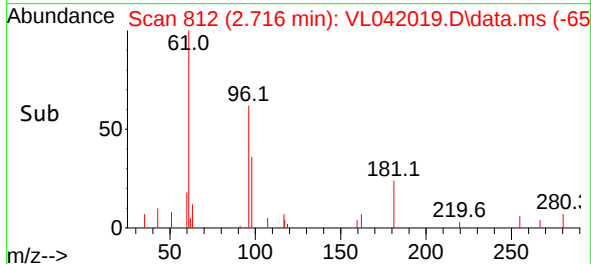
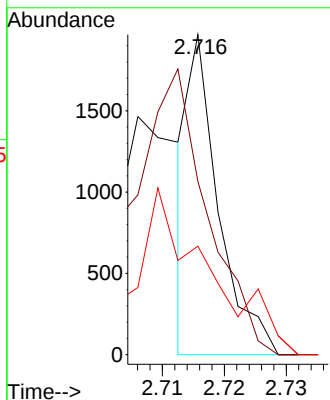
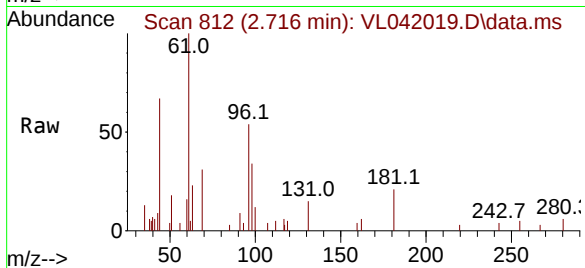




#31
 cis-1,2-Dichloroethene
 Concen: 0.039 ppbv
 RT: 2.716 min Scan# 811
 Delta R.T. 0.003 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

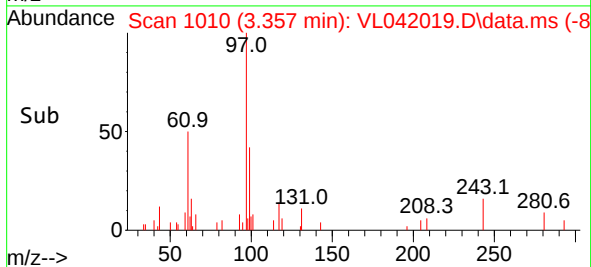
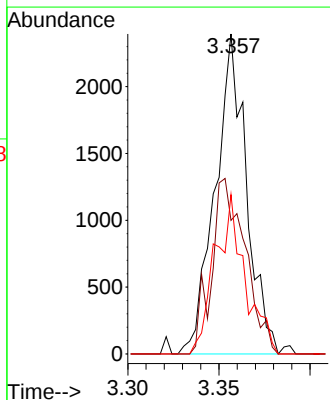
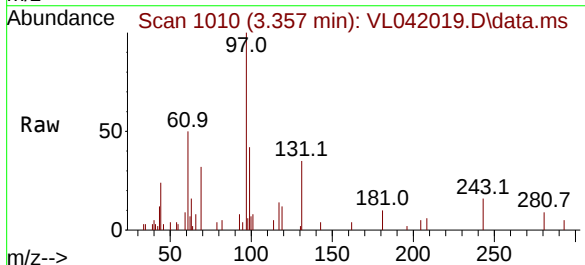
Instrument :
 MSVOA_L
 ClientSampleId :

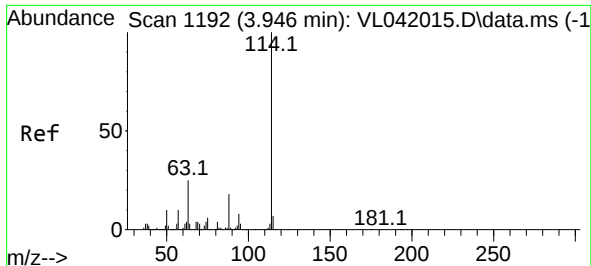
Tgt Ion: 61 Resp: 655
 Ion Ratio Lower Upper
 61 100
 96 54.2 51.6 77.4
 98 28.0 34.8 52.2#



#32
 1,1,1-Trichloroethane
 Concen: 0.103 ppbv
 RT: 3.357 min Scan# 1010
 Delta R.T. -0.000 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

Tgt Ion: 97 Resp: 2858
 Ion Ratio Lower Upper
 97 100
 99 59.0 51.0 76.4
 61 47.8 37.9 56.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.942 min Scan# 1191

Delta R.T. -0.004 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

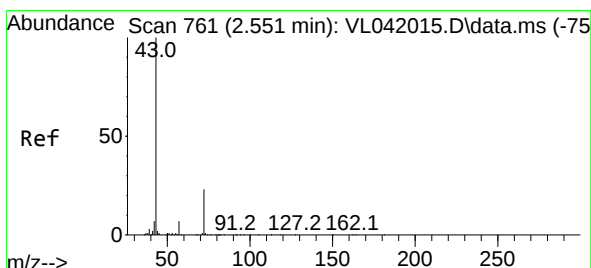
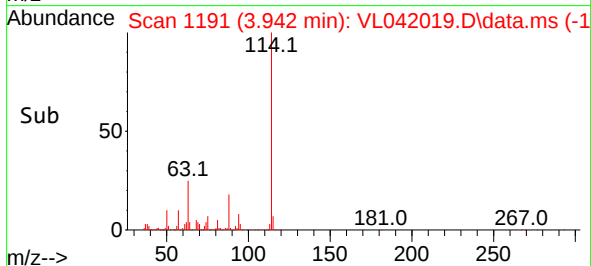
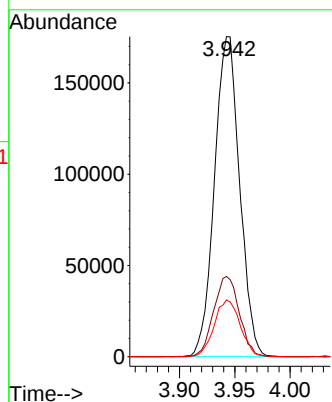
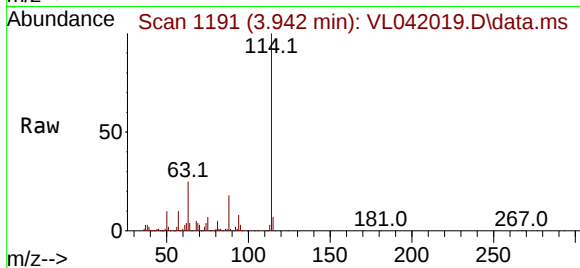
Tgt Ion:114 Resp: 277411

Ion Ratio Lower Upper

114 100

63 25.5 20.2 30.2

88 18.4 14.4 21.6



#34

2-Butanone

Concen: 0.150 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.003 min

Lab File: VL042019.D

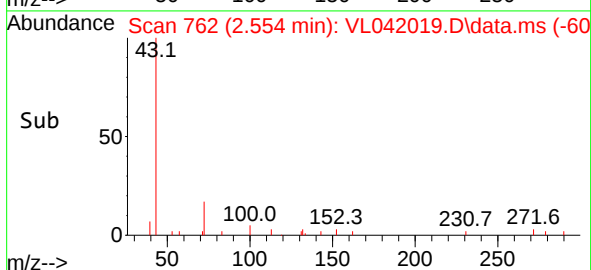
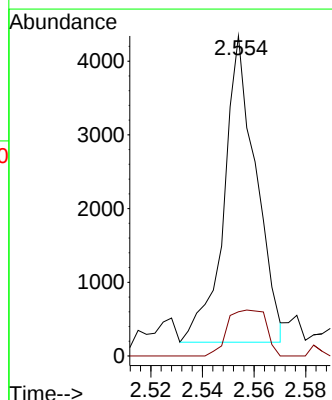
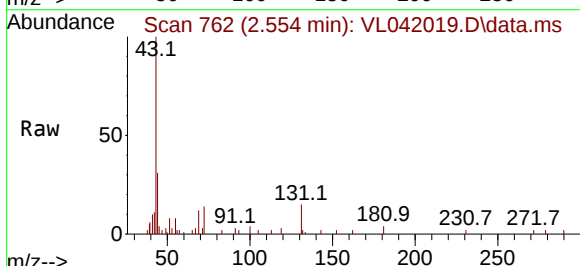
Acq: 14 Feb 2025 14:27

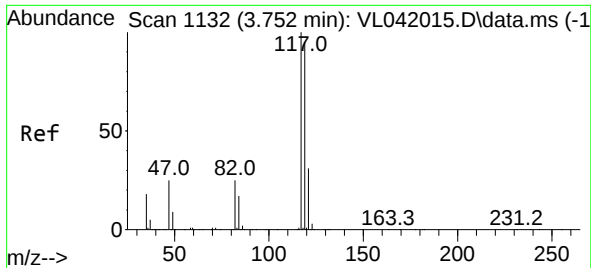
Tgt Ion: 43 Resp: 3581

Ion Ratio Lower Upper

43 100

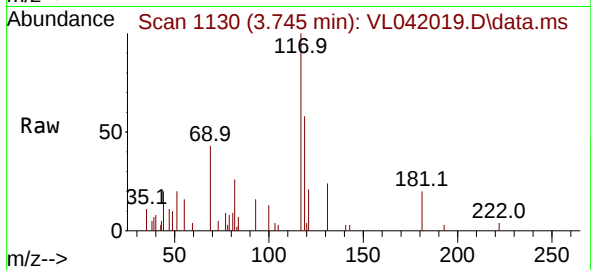
72 20.1 18.3 27.5



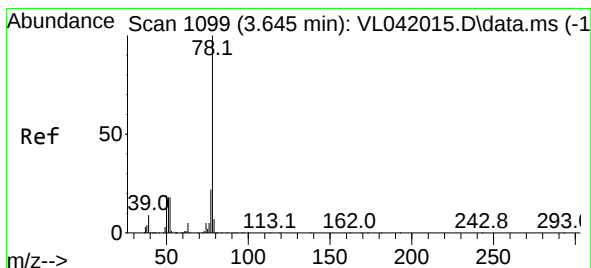
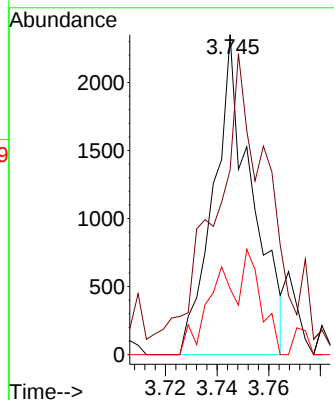
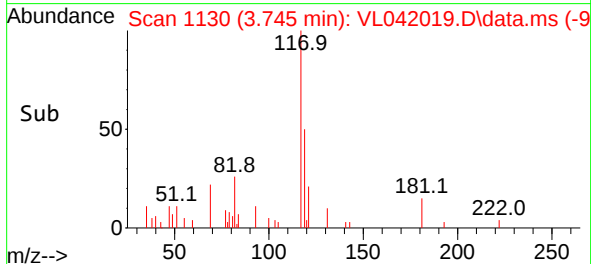


#35
Carbon Tetrachloride
Concen: 0.091 ppbv
RT: 3.745 min Scan# 1132
Delta R.T. -0.007 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

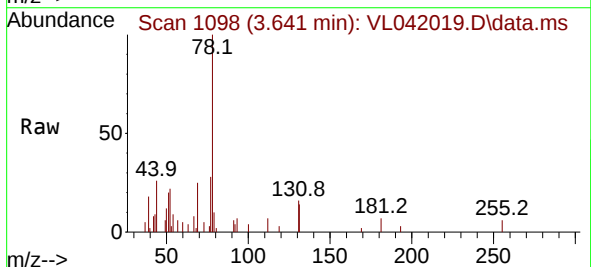
Instrument :
MSVOA_L
ClientSampleId :



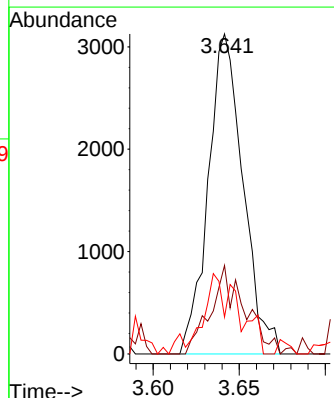
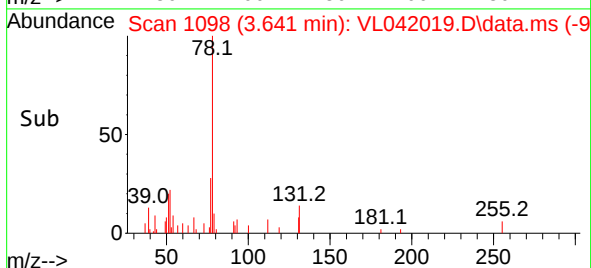
Tgt Ion:117 Resp: 2402
Ion Ratio Lower Upper
117 100
119 45.8 75.8 113.6#
121 20.6 24.6 36.8#

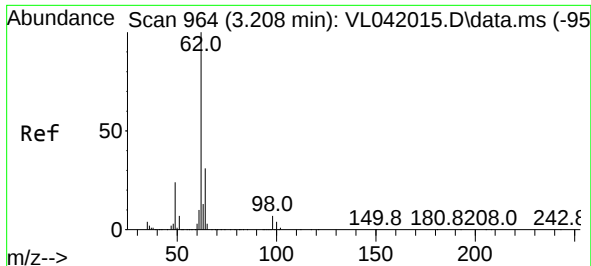


#36
Benzene
Concen: 0.131 ppbv
RT: 3.641 min Scan# 1098
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27



Tgt Ion: 78 Resp: 4406
Ion Ratio Lower Upper
78 100
77 27.6 18.0 27.0#
50 7.1 15.2 22.8#





#37

1,2-Dichloroethane

Concen: 0.060 ppbv

RT: 3.201 min Scan# 9

Delta R.T. -0.007 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

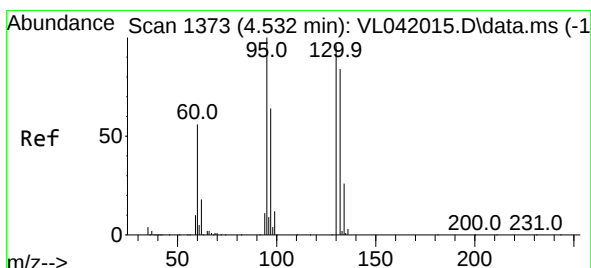
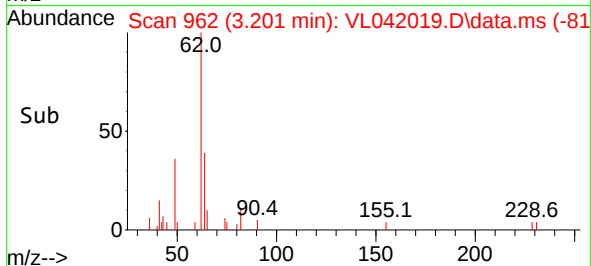
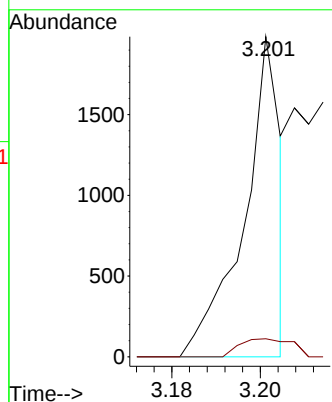
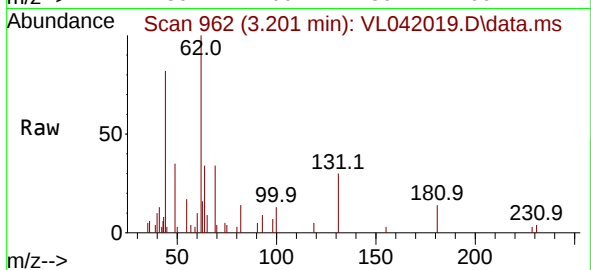
ClientSampleId :

Tgt Ion: 62 Resp: 1141

Ion Ratio Lower Upper

62 100

98 8.2 5.7 8.5



#38

Trichloroethene

Concen: 0.072 ppbv

RT: 4.525 min Scan# 1371

Delta R.T. -0.007 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Tgt Ion:130 Resp: 991

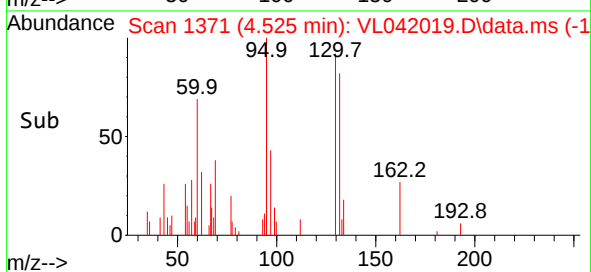
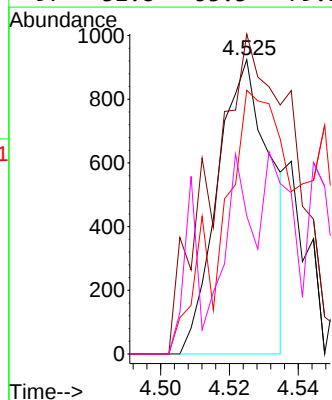
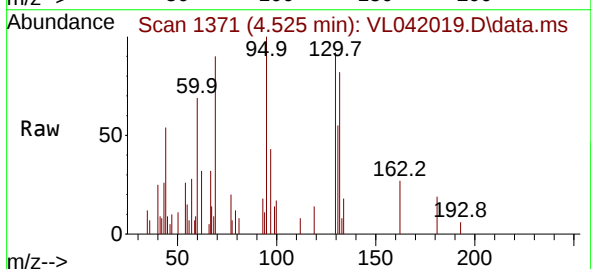
Ion Ratio Lower Upper

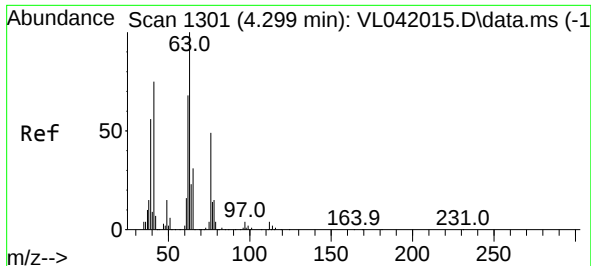
130 100

95 69.2 82.8 124.2#

132 77.3 70.0 105.0

97 32.8 53.3 79.9#





#39

1,2-Dichloropropane

Concen: 5.675 ppbv

RT: 3.942 min Scan# 1191

Delta R.T. -0.356 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

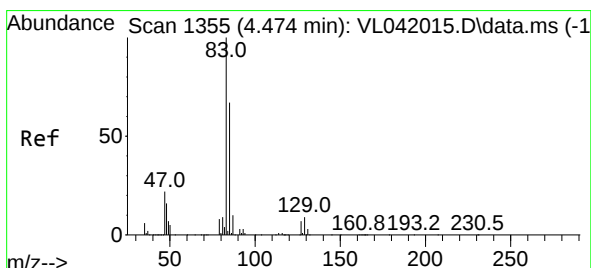
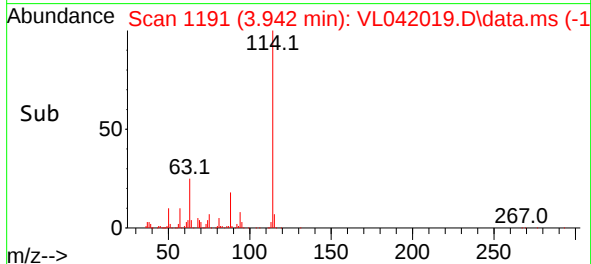
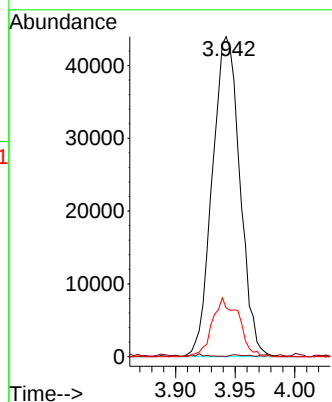
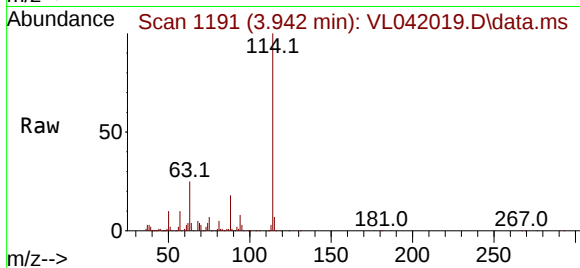
Tgt Ion: 63 Resp: 70744

Ion Ratio Lower Upper

63 100

41 0.0 60.1 90.1#

62 15.3 54.0 81.0#



#42

Bromodichloromethane

Concen: 0.076 ppbv

RT: 4.467 min Scan# 1353

Delta R.T. -0.007 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

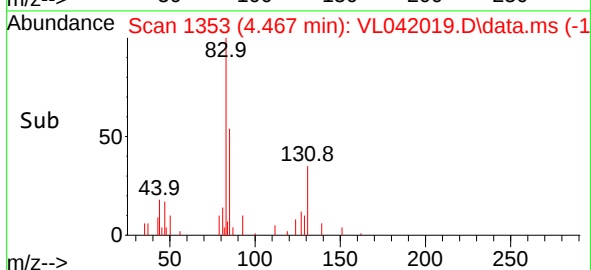
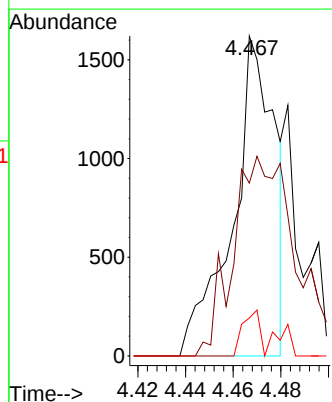
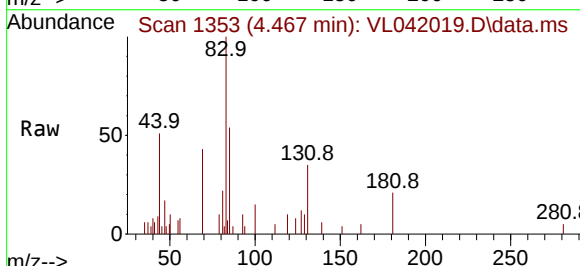
Tgt Ion: 83 Resp: 1972

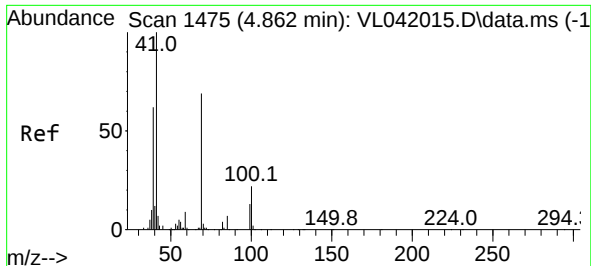
Ion Ratio Lower Upper

83 100

85 54.0 53.3 79.9

127 11.8 6.0 9.0#





#43

Methyl Methacrylate

Concen: 0.033 ppbv

RT: 4.855 min Scan# 1475

Delta R.T. -0.007 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

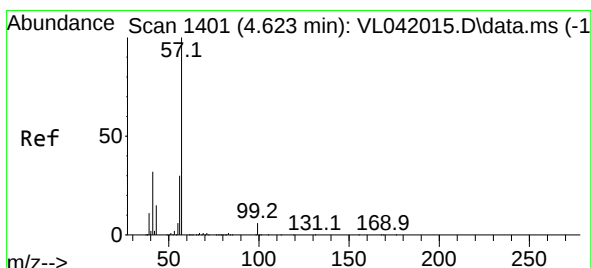
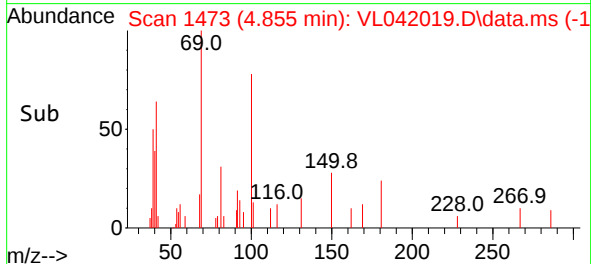
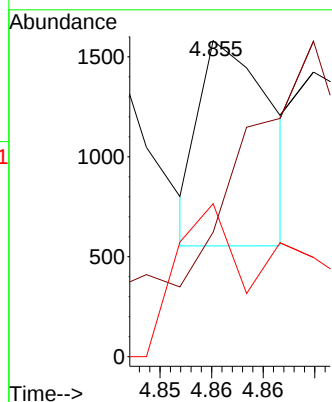
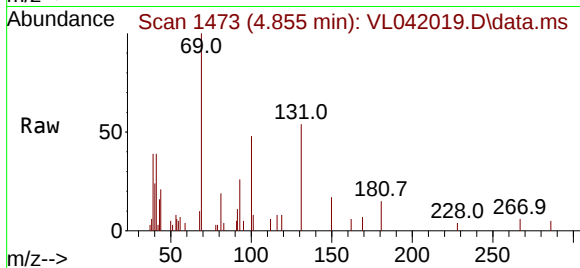
Tgt Ion: 69 Resp: 499

Ion Ratio Lower Upper

69 100

41 0.0 114.9 172.3#

100 288.6 28.8 43.2#



#44

2,2,4-Trimethylpentane

Concen: 0.109 ppbv

RT: 4.622 min Scan# 1401

Delta R.T. -0.000 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

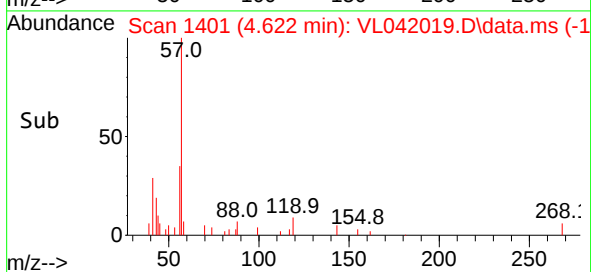
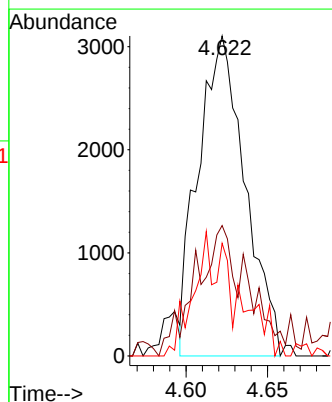
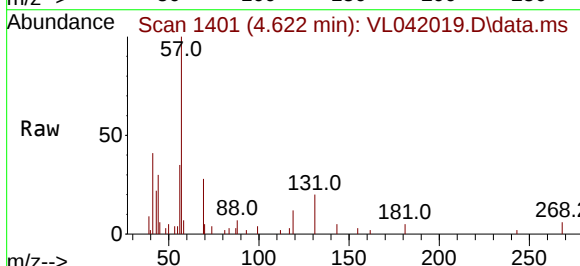
Tgt Ion: 57 Resp: 6208

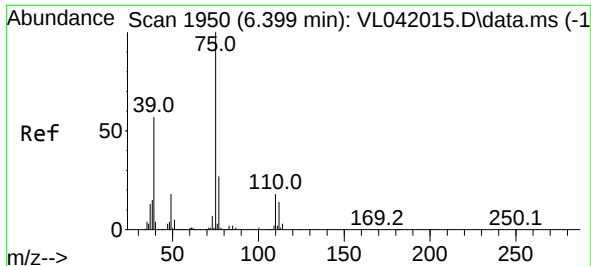
Ion Ratio Lower Upper

57 100

41 47.9 25.9 38.9#

56 36.4 24.9 37.3

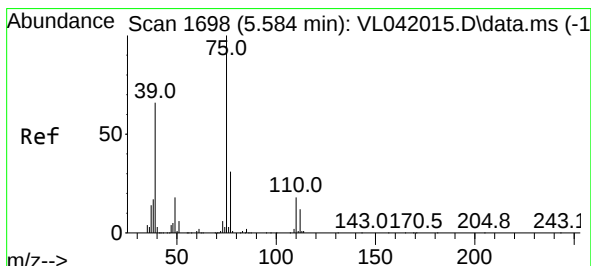
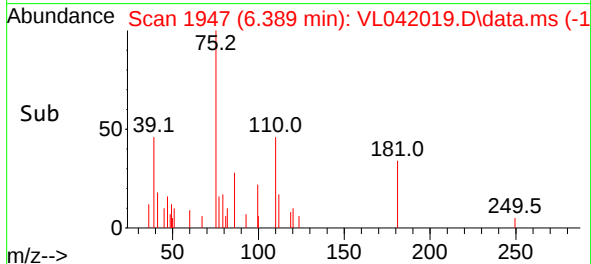
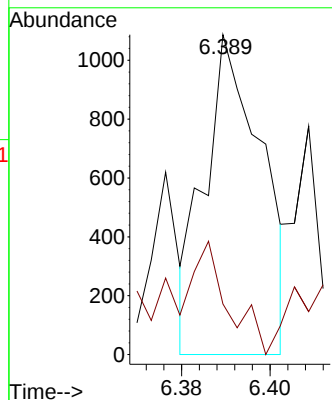
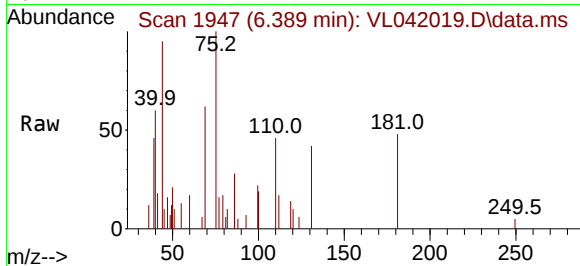




#45
 t-1,3-Dichloropropene
 Concen: 0.067 ppbv
 RT: 6.389 min Scan# 1950
 Delta R.T. -0.010 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

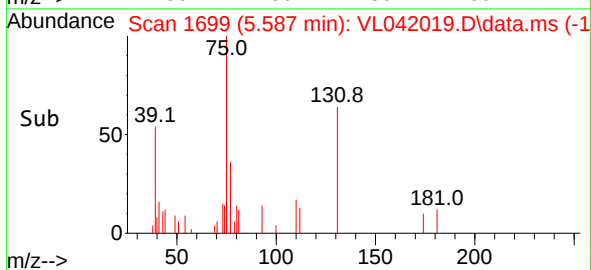
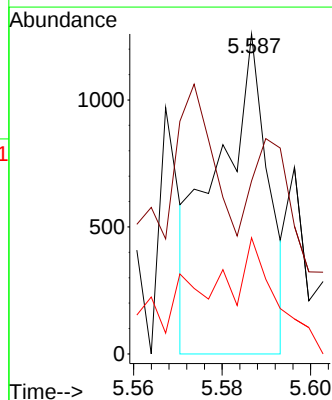
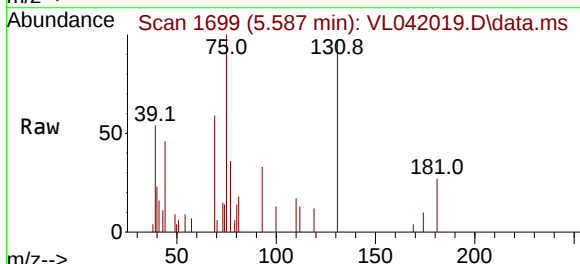
Instrument :
 MSVOA_L
 ClientSampleId :

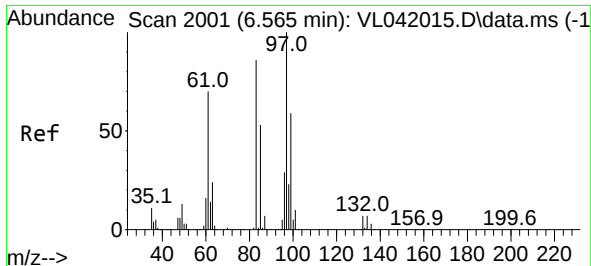
Tgt Ion: 75 Resp: 971
 Ion Ratio Lower Upper
 75 100
 77 15.8 22.1 33.1#



#46
 cis-1,3-Dichloropropene
 Concen: 0.056 ppbv
 RT: 5.587 min Scan# 1699
 Delta R.T. 0.003 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

Tgt Ion: 75 Resp: 1022
 Ion Ratio Lower Upper
 75 100
 39 0.0 52.2 78.4#
 77 34.2 24.5 36.7



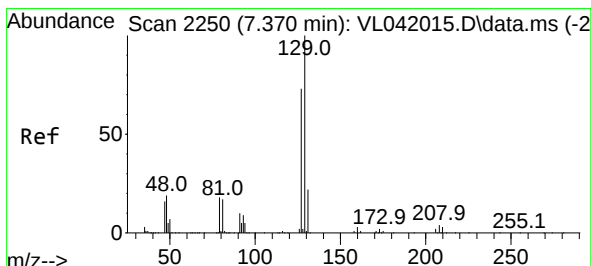
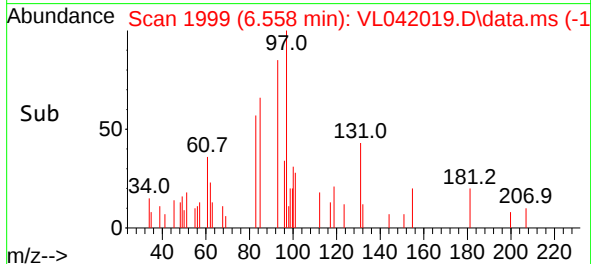
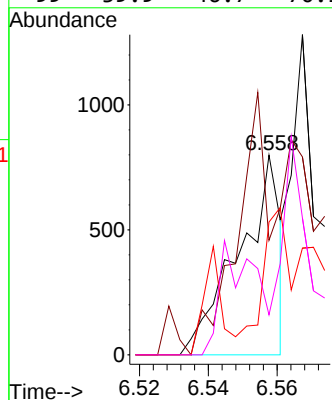
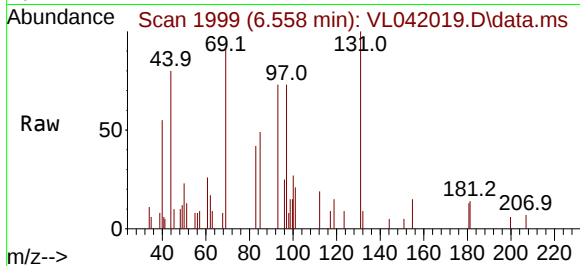


#47
1,1,2-Trichloroethane
Concen: 0.051 ppbv
RT: 6.558 min Scan# 1999
Delta R.T. -0.007 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 97 Resp: 667

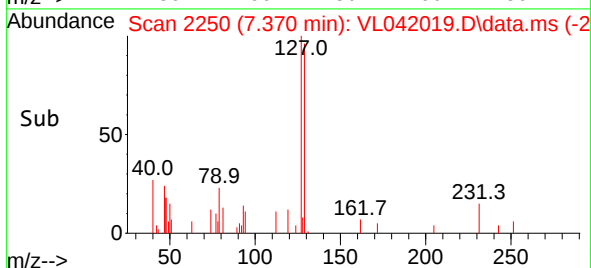
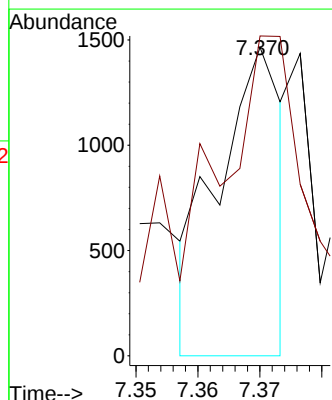
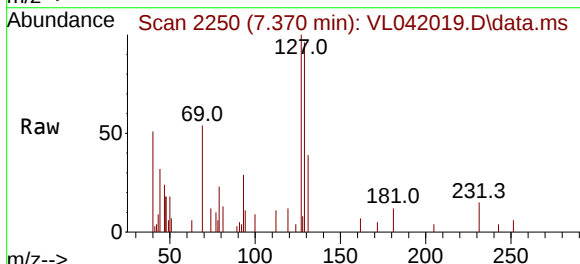
Ion	Ratio	Lower	Upper
97	100		
83	49.8	68.6	102.8#
85	66.5	42.2	63.4#
99	39.9	46.7	70.1#

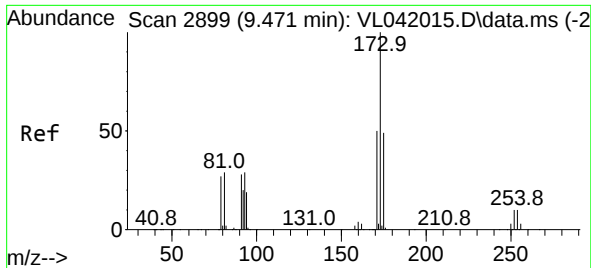


#48
Dibromochloromethane
Concen: 0.049 ppbv
RT: 7.370 min Scan# 2250
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion: 129 Resp: 1053

Ion	Ratio	Lower	Upper
129	100		
127	181.1	38.2	114.6#





#49

Bromoform

Concen: 0.056 ppbv

RT: 9.464 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL042019.D

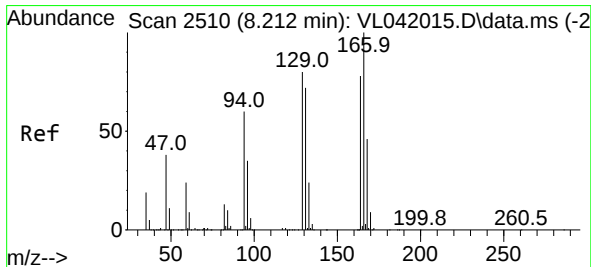
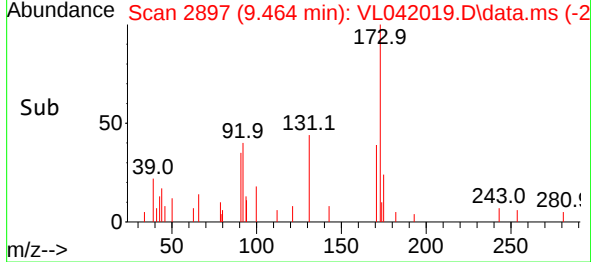
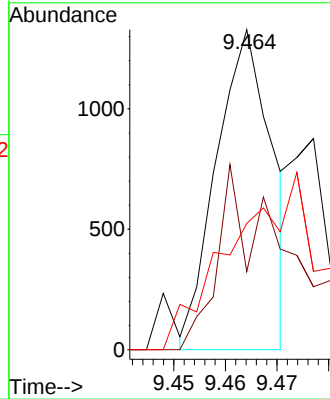
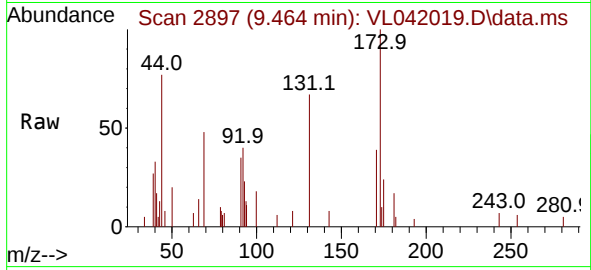
Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:173	Resp:	992
Ion Ratio	Lower	Upper
173	100	
175	78.0	39.3 58.9#
171	0.0	41.4 62.2#



#52

Tetrachloroethene

Concen: 0.030 ppbv

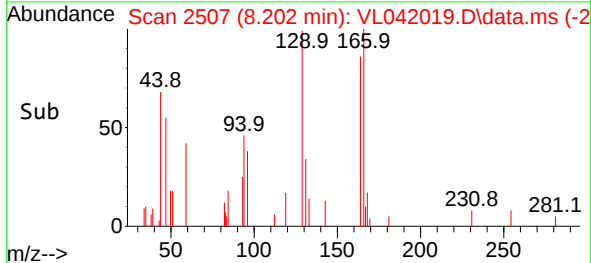
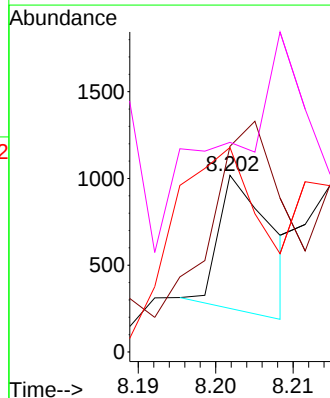
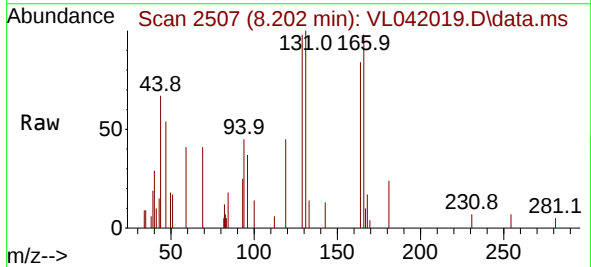
RT: 8.202 min Scan# 2507

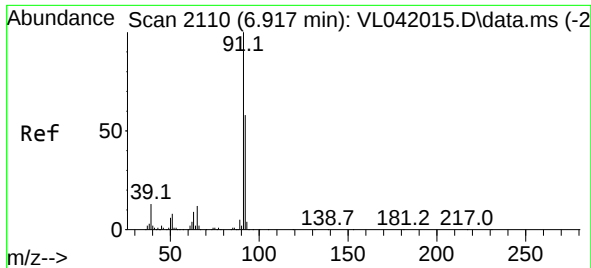
Delta R.T. -0.010 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Tgt Ion:164	Resp:	357
Ion Ratio	Lower	Upper
164	100	
166	106.8	102.2 153.2
129	86.9	82.2 123.4
131	5.3	73.7 110.5#

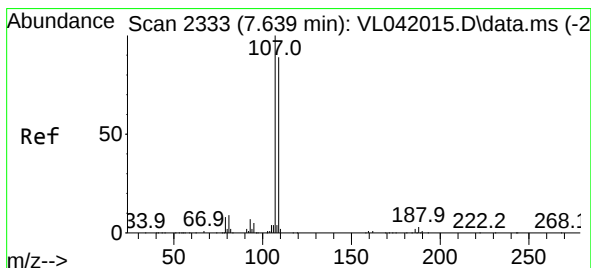
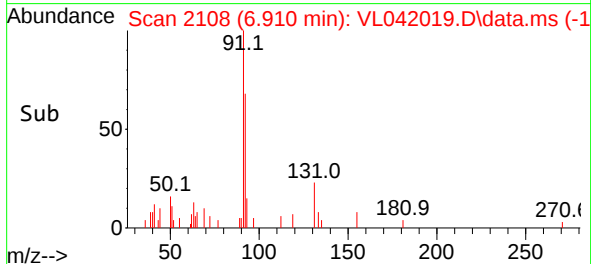
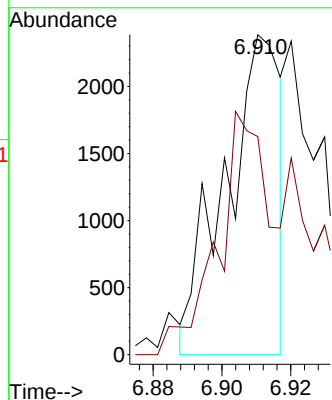
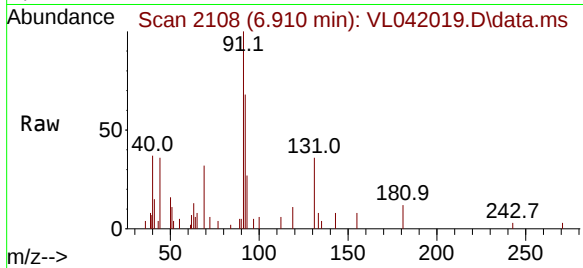




#53
Toluene
Concen: 0.067 ppbv
RT: 6.910 min Scan# 2110
Delta R.T. -0.007 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

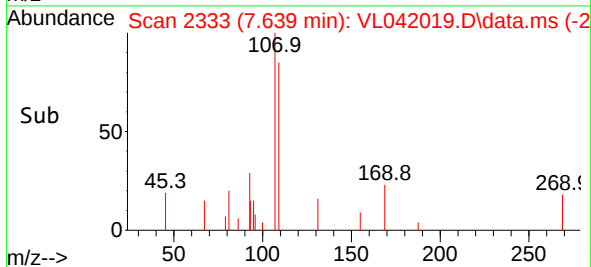
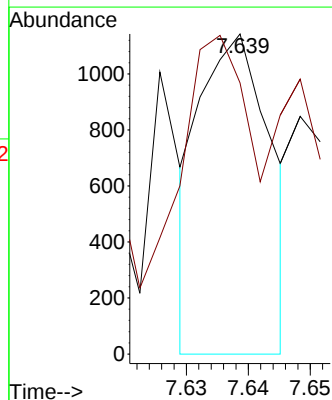
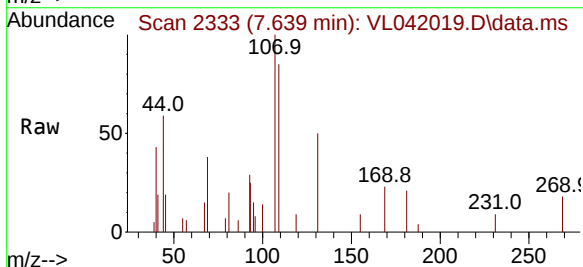
Instrument :
MSVOA_L
ClientSampleId :

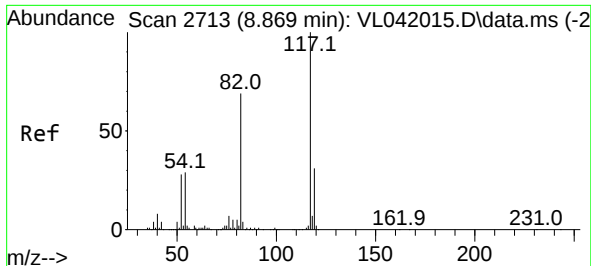
Tgt Ion: 91 Resp: 2657
Ion Ratio Lower Upper
91 100
92 118.2 47.5 71.3#



#54
1,2-Dibromoethane
Concen: 0.050 ppbv
RT: 7.639 min Scan# 2333
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion: 107 Resp: 905
Ion Ratio Lower Upper
107 100
109 77.3 71.5 107.3

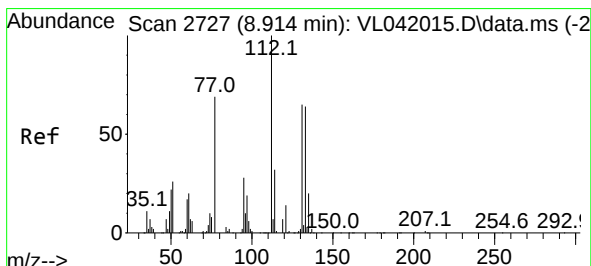
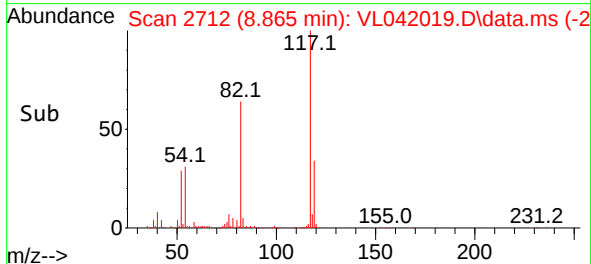
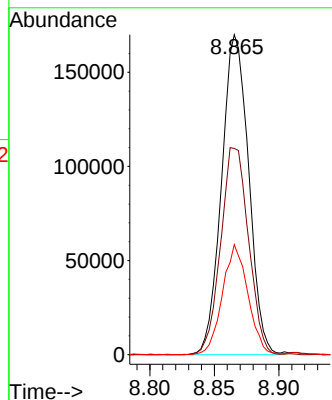
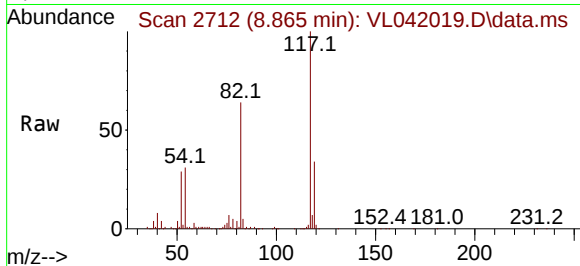




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.865 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

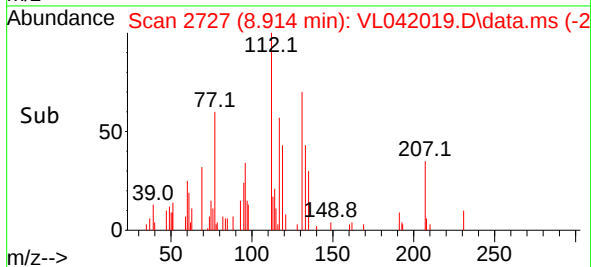
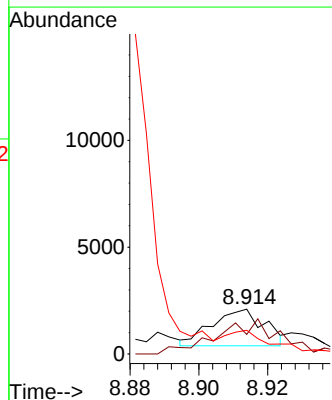
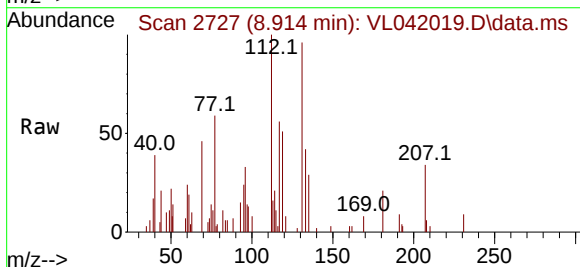
Instrument :
MSVOA_L
ClientSampleId :

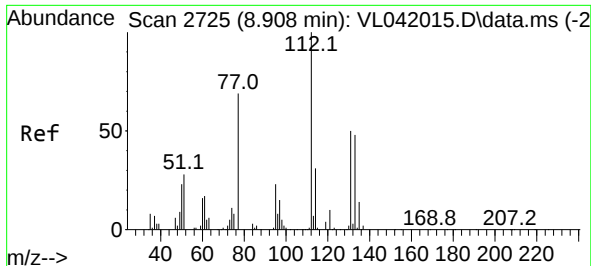
Tgt Ion:117 Resp: 247705
Ion Ratio Lower Upper
117 100
82 66.8 55.7 83.5
119 33.0 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.103 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion:131 Resp: 1813
Ion Ratio Lower Upper
131 100
133 116.3 77.8 116.8
119 0.0 49.1 73.7#

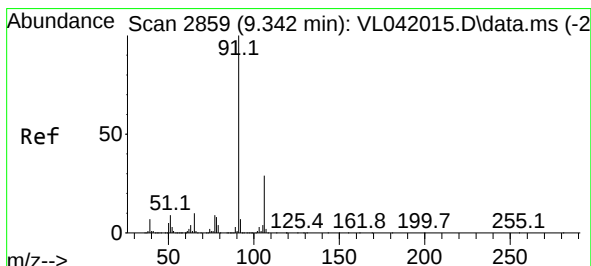
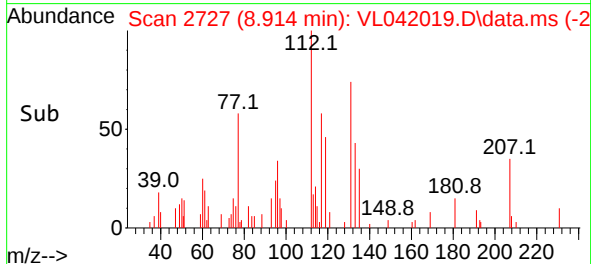
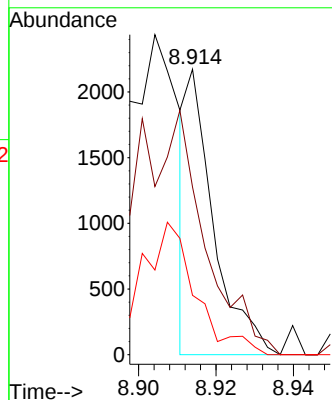
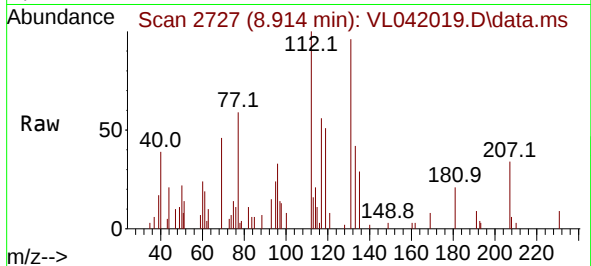




#57
Chlorobenzene
Concen: 0.036 ppbv
RT: 8.914 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

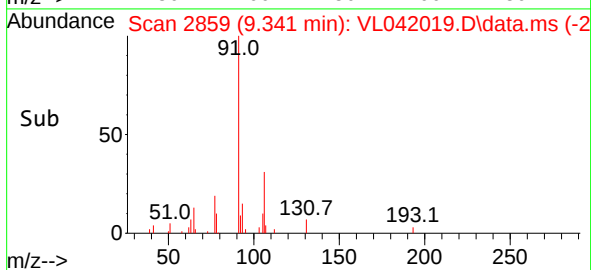
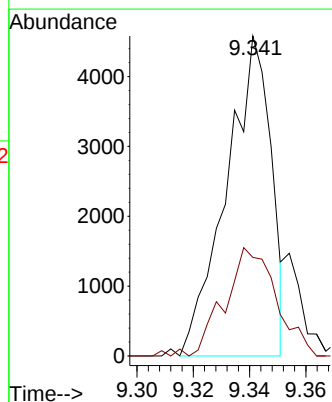
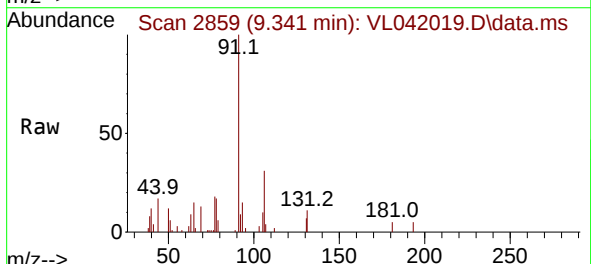
Instrument :
MSVOA_L
ClientSampleId :

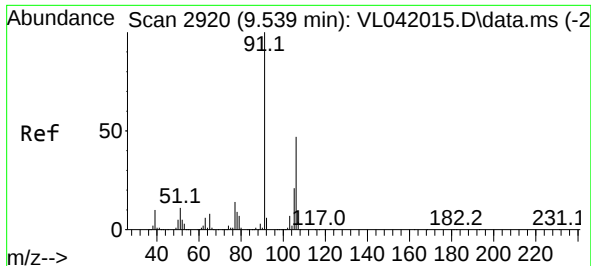
Tgt Ion:112 Resp: 1042
Ion Ratio Lower Upper
112 100
77 58.7 56.2 84.2
114 31.3 28.2 34.4



#58
Ethyl Benzene
Concen: 0.093 ppbv
RT: 9.341 min Scan# 2859
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion: 91 Resp: 5060
Ion Ratio Lower Upper
91 100
106 28.7 23.1 34.7





#59

m/p-Xylene

Concen: 0.114 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.007 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

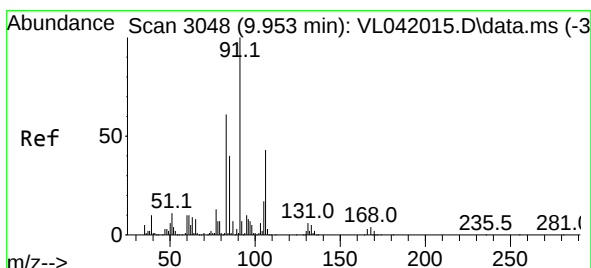
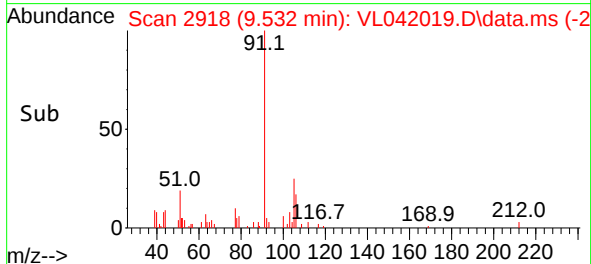
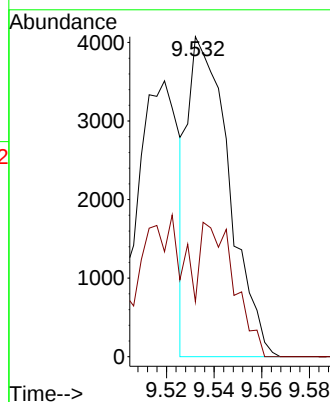
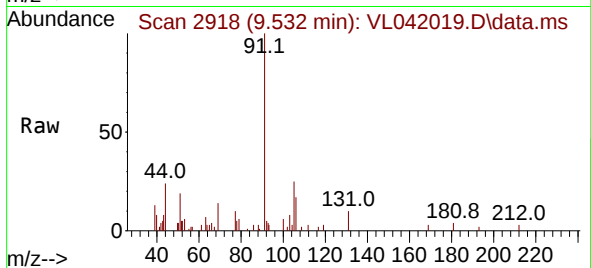
ClientSampleId :

Tgt Ion: 91 Resp: 4881

Ion Ratio Lower Upper

91 100

106 0.0 35.8 53.8#



#60

o-Xylene

Concen: 0.115 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. -0.000 min

Lab File: VL042019.D

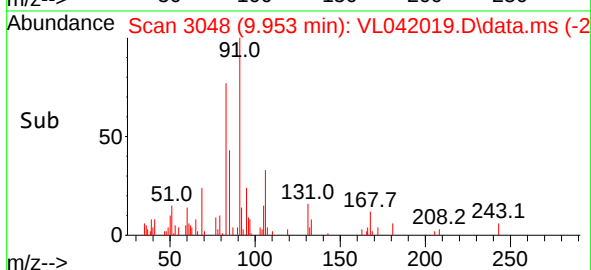
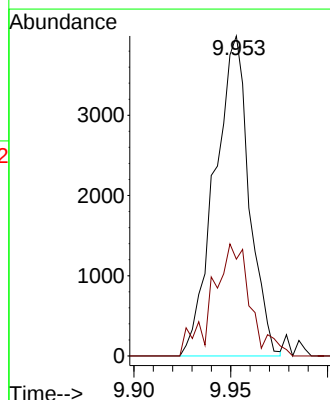
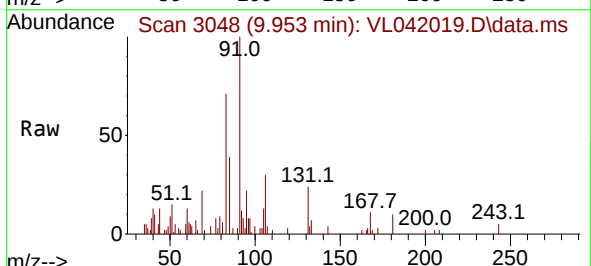
Acq: 14 Feb 2025 14:27

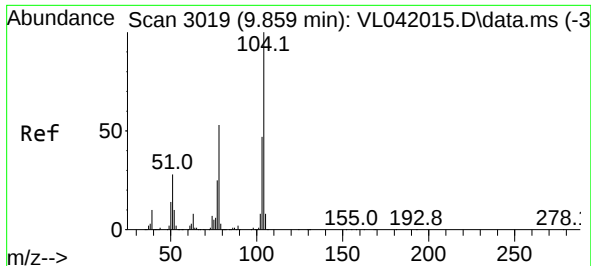
Tgt Ion: 91 Resp: 4946

Ion Ratio Lower Upper

91 100

106 38.7 21.4 64.3

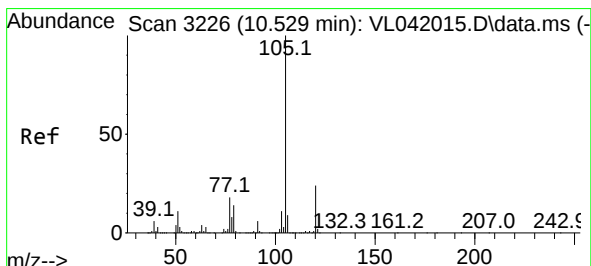
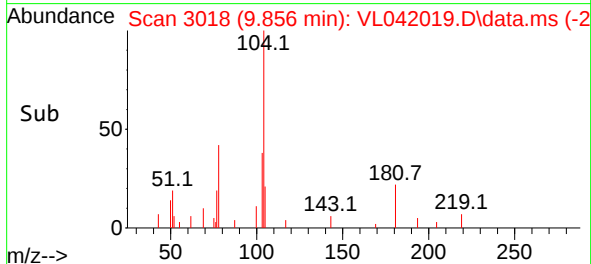
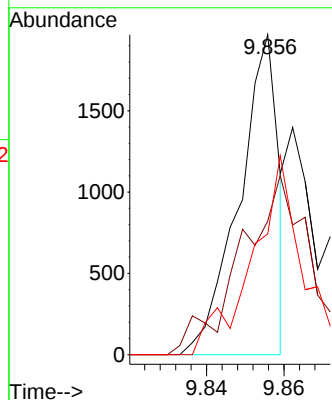
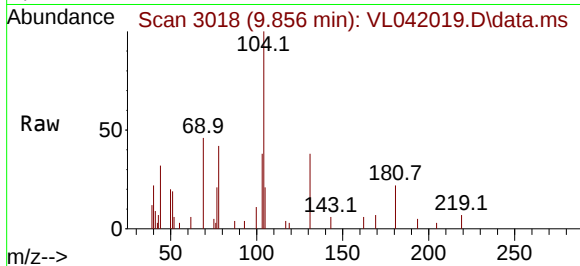




#61
Styrene
Concen: 0.068 ppbv
RT: 9.856 min Scan# 3019
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

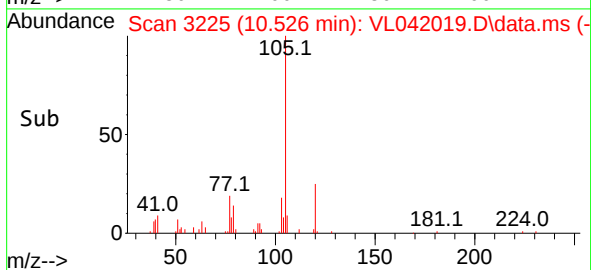
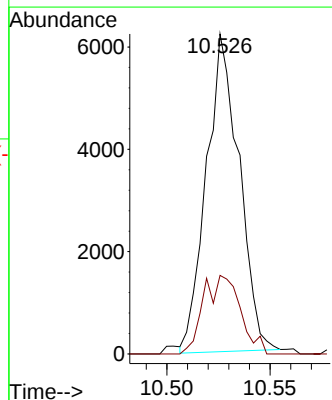
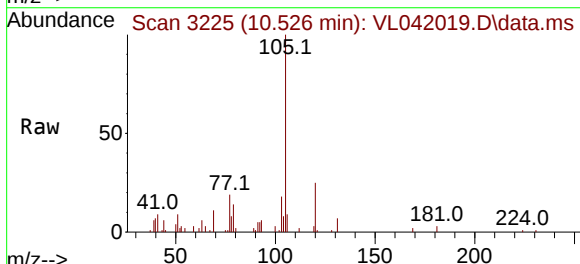
Instrument :
MSVOA_L
ClientSampleId :

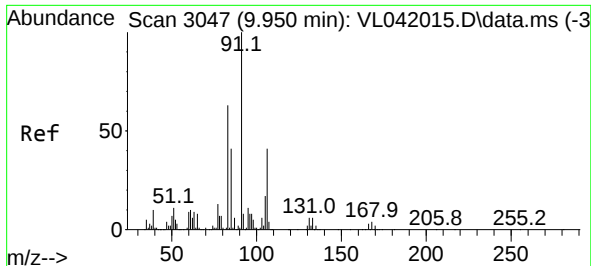
Tgt Ion:104 Resp: 1395
Ion Ratio Lower Upper
104 100
78 0.0 42.2 63.4#
103 0.0 38.1 57.1#



#62
Isopropylbenzene
Concen: 0.106 ppbv
RT: 10.526 min Scan# 3225
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion:105 Resp: 6865
Ion Ratio Lower Upper
105 100
120 27.9 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.113 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. 0.003 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

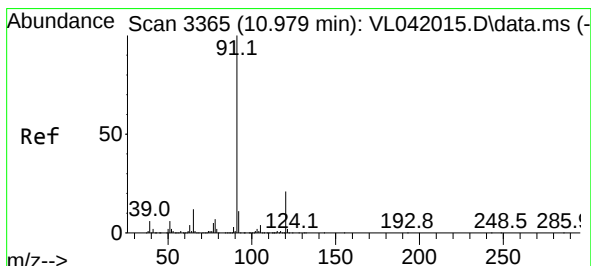
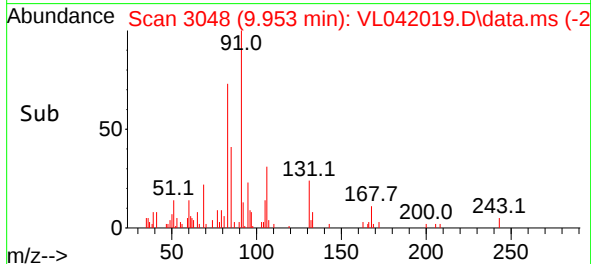
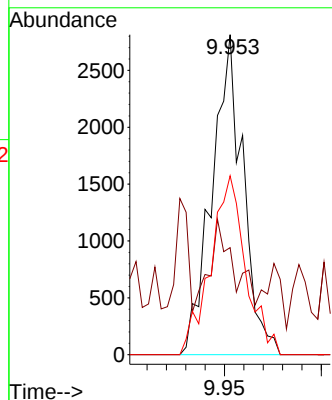
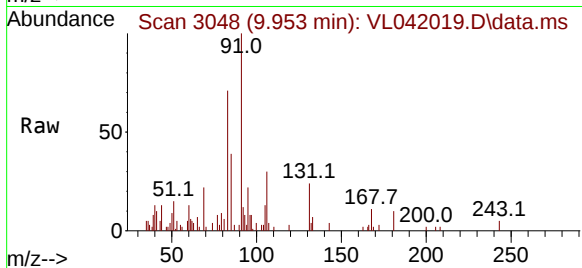
Tgt Ion: 83 Resp: 3139

Ion Ratio Lower Upper

83 100

131 56.2 5.0 15.0#

85 63.0 32.1 96.3



#64

n-propylbenzene

Concen: 0.097 ppbv

RT: 10.979 min Scan# 3365

Delta R.T. -0.000 min

Lab File: VL042019.D

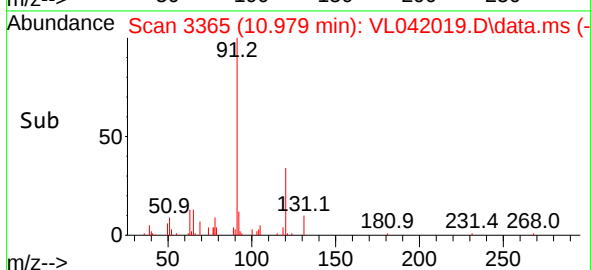
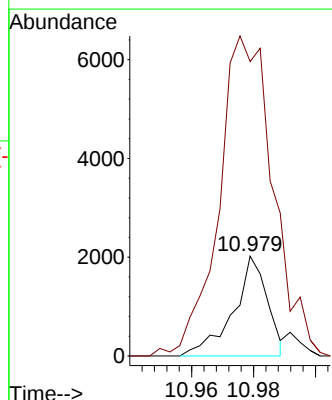
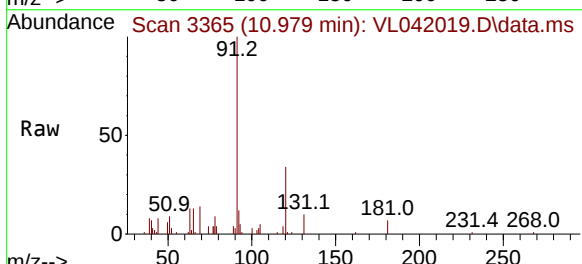
Acq: 14 Feb 2025 14:27

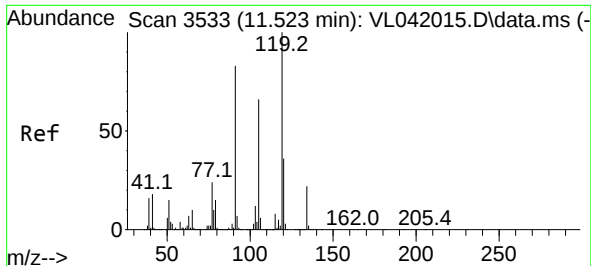
Tgt Ion:120 Resp: 1539

Ion Ratio Lower Upper

120 100

91 513.5 392.2 588.2

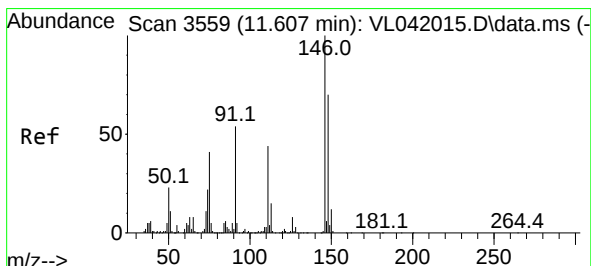
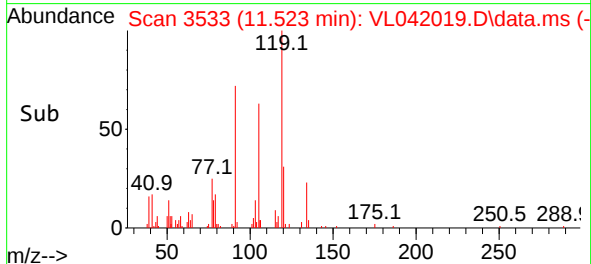
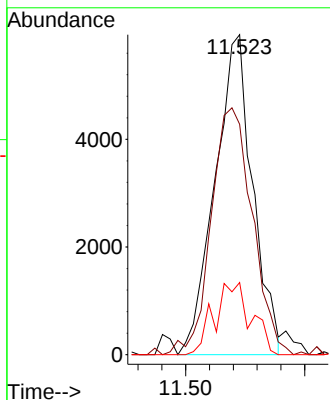
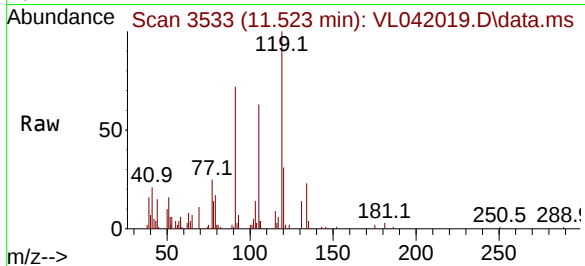




#65
tert-Butylbenzene
Concen: 0.116 ppbv
RT: 11.523 min Scan# 3533
Delta R.T. -0.000 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

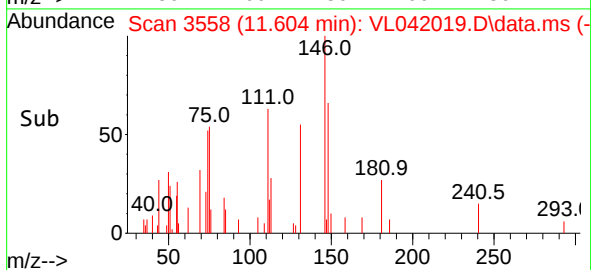
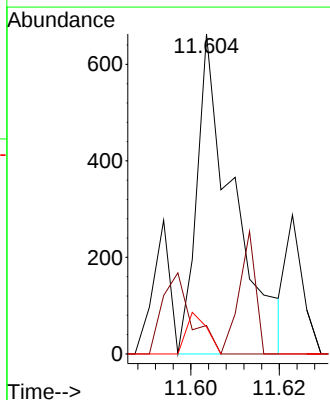
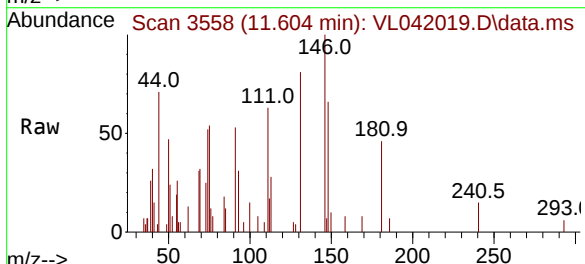
Instrument :
MSVOA_L
ClientSampleId :

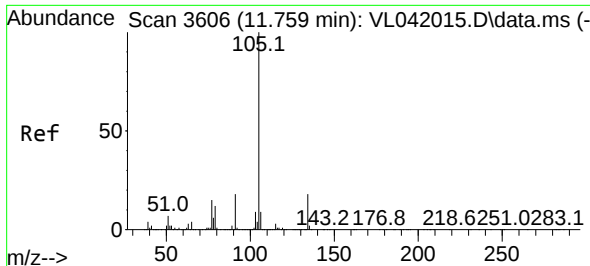
Tgt Ion:119 Resp: 6530
Ion Ratio Lower Upper
119 100
91 84.9 66.5 99.7
134 22.0 16.6 24.8



#66
Benzyl Chloride
Concen: 0.067 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion: 91 Resp: 380
Ion Ratio Lower Upper
91 100
126 37.6 13.8 20.6#
128 0.0 4.1 6.1#

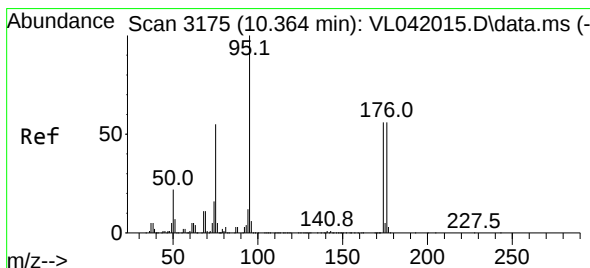
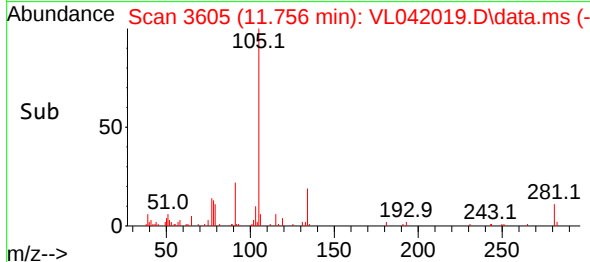
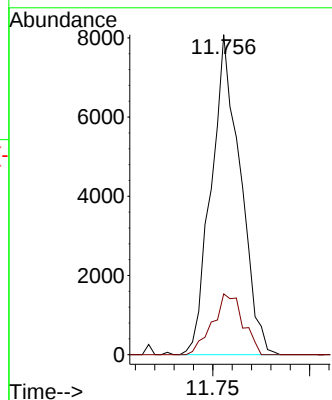
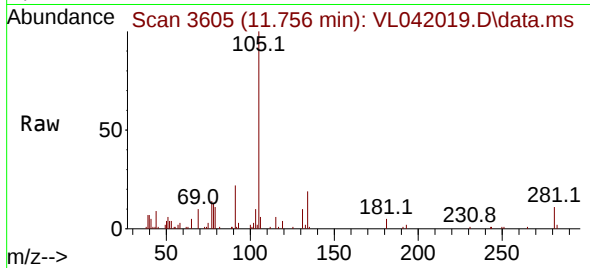




#67
 sec-Butylbenzene
 Concen: 0.106 ppbv
 RT: 11.756 min Scan# 3605
 Delta R.T. -0.004 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

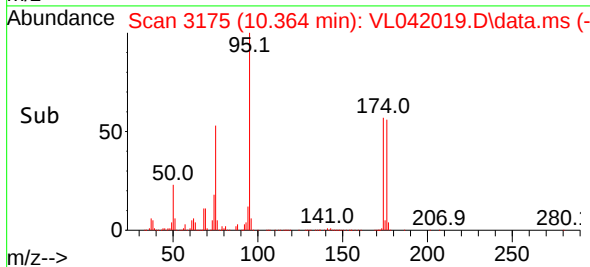
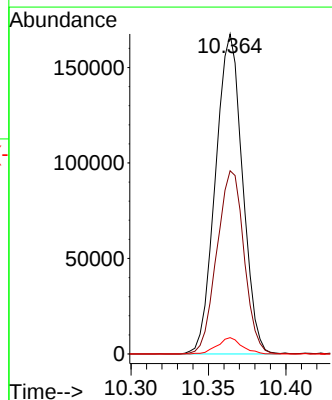
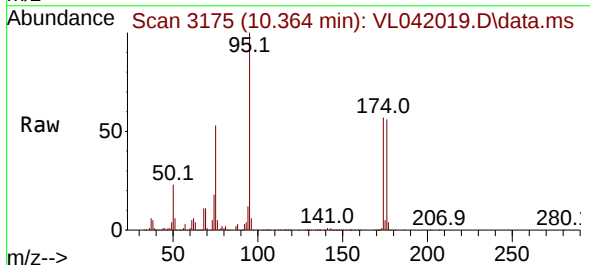
Instrument :
 MSVOA_L
 ClientSampleId :

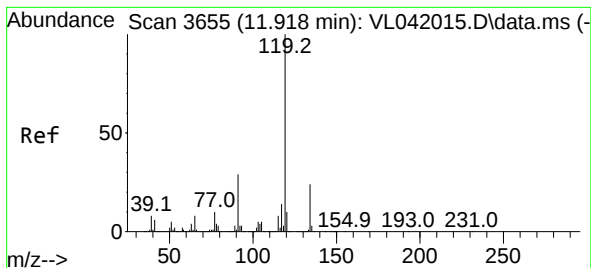
Tgt Ion:105 Resp: 8422
 Ion Ratio Lower Upper
 105 100
 134 19.9 14.7 22.1



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.937 ppbv
 RT: 10.364 min Scan# 3175
 Delta R.T. -0.000 min
 Lab File: VL042019.D
 Acq: 14 Feb 2025 14:27

Tgt Ion: 95 Resp: 203030
 Ion Ratio Lower Upper
 95 100
 174 57.7 46.7 70.1
 175 4.6 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.110 ppbv

RT: 11.918 min Scan# 3655

Delta R.T. -0.000 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

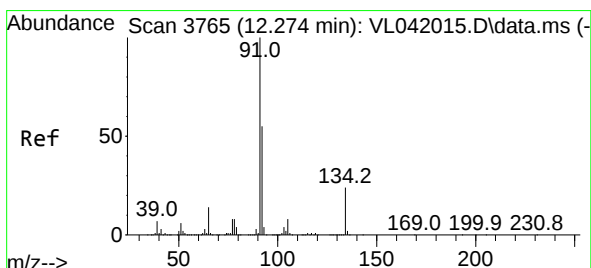
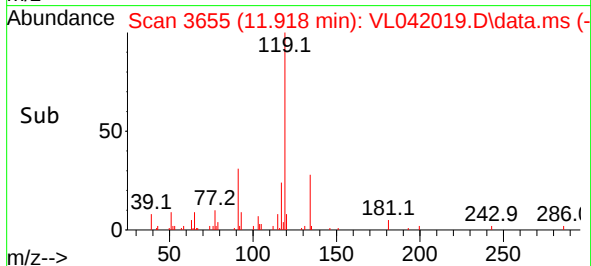
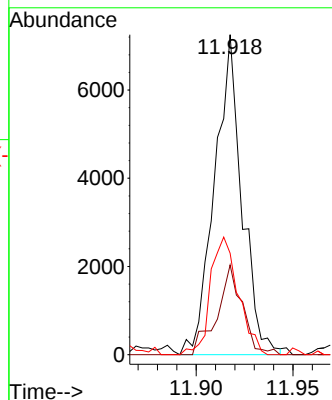
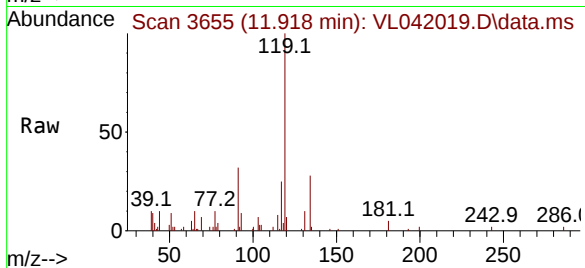
Tgt Ion:119 Resp: 7153

Ion Ratio Lower Upper

119 100

134 25.9 19.4 29.0

91 39.0 23.4 35.2#



#70

n-Butylbenzene

Concen: 0.089 ppbv

RT: 12.274 min Scan# 3765

Delta R.T. -0.000 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

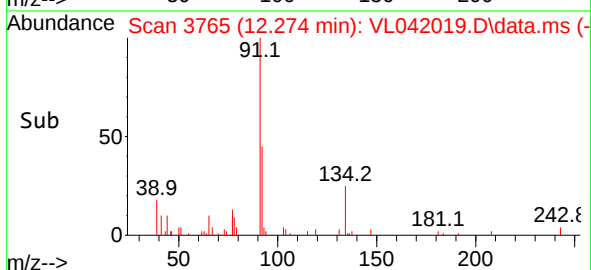
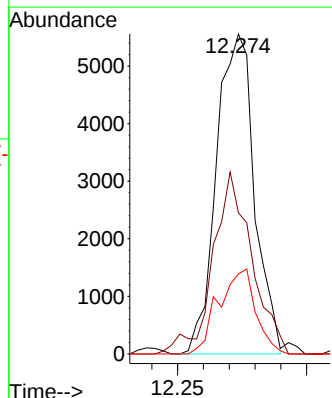
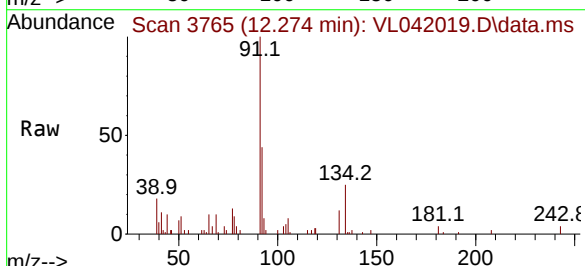
Tgt Ion: 91 Resp: 5686

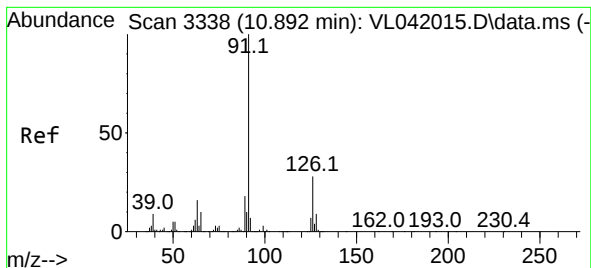
Ion Ratio Lower Upper

91 100

92 58.1 43.8 65.8

134 25.9 18.6 27.8





#71

2-Chlorotoluene

Concen: 0.101 ppbv

RT: 10.888 min Scan# 31

Delta R.T. -0.004 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

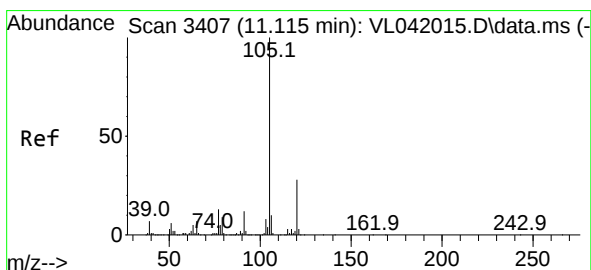
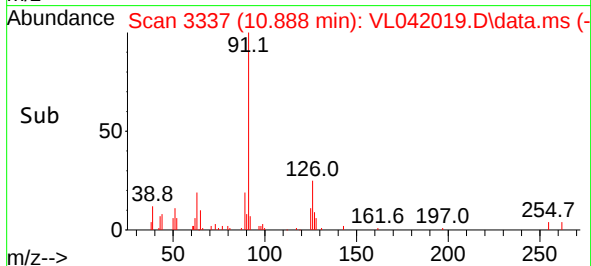
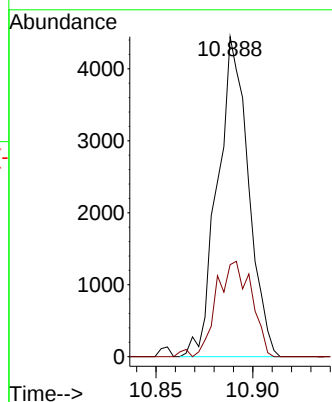
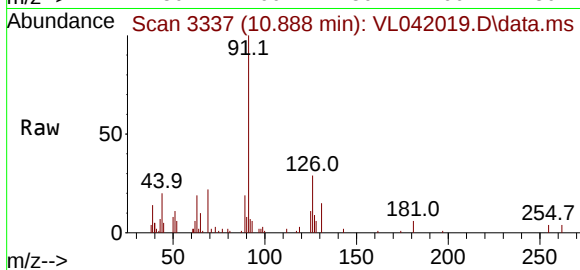
ClientSampleId :

Tgt Ion: 91 Resp: 4927

Ion Ratio Lower Upper

91 100

126 34.4 11.2 45.0



#72

4-Ethyltoluene

Concen: 0.103 ppbv

RT: 11.112 min Scan# 3406

Delta R.T. -0.004 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Tgt Ion: 105 Resp: 5199

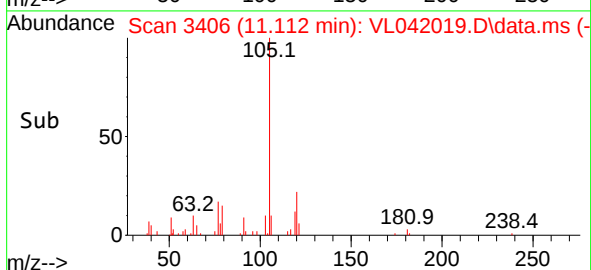
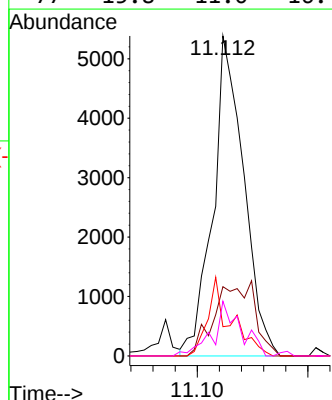
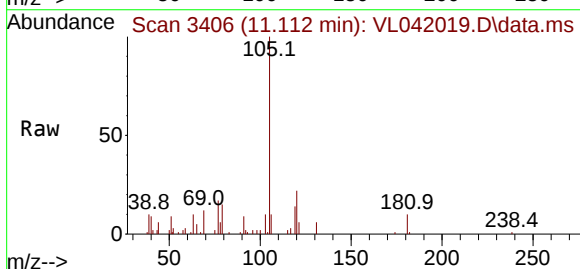
Ion Ratio Lower Upper

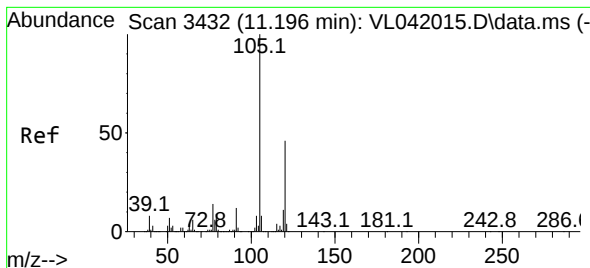
105 100

120 30.2 22.7 34.1

91 18.2 10.2 15.2#

77 15.8 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 0.115 ppbv

RT: 11.193 min Scan# 3432

Delta R.T. -0.004 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

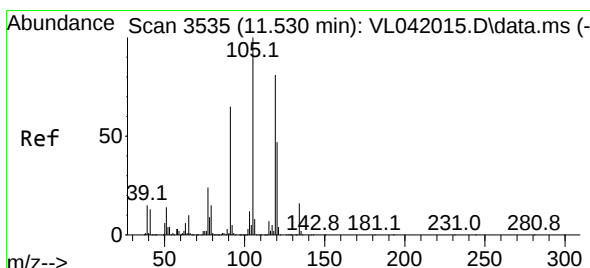
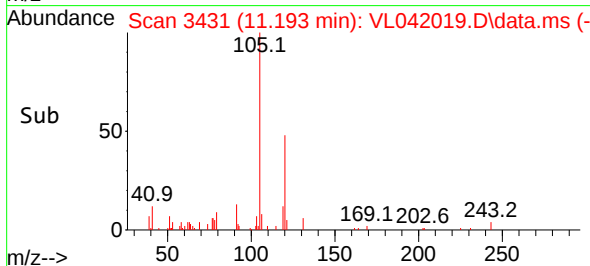
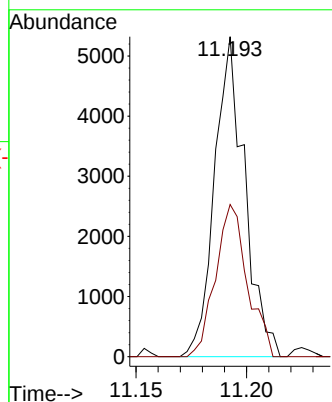
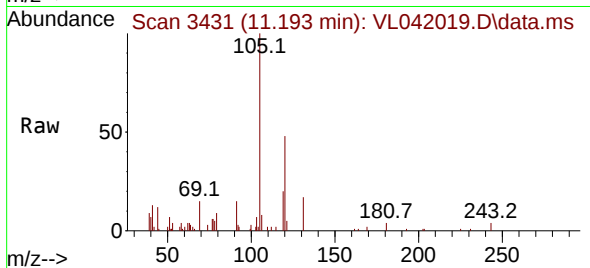
ClientSampleId :

Tgt Ion:105 Resp: 5025

Ion Ratio Lower Upper

105 100

120 47.5 37.1 55.7



#74

1,2,4-Trimethylbenzene

Concen: 0.111 ppbv

RT: 11.526 min Scan# 3534

Delta R.T. -0.004 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Tgt Ion:105 Resp: 5206

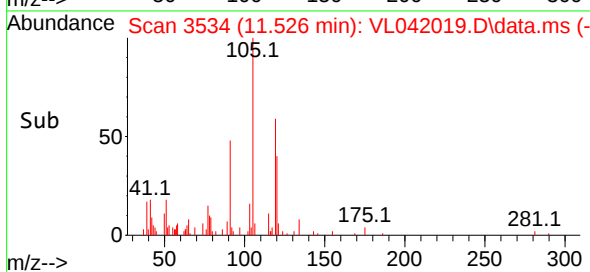
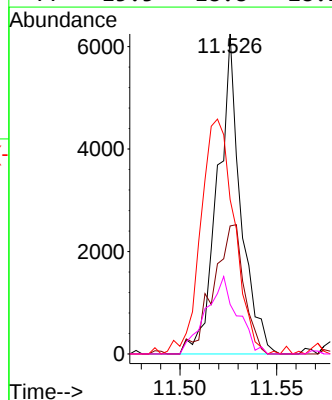
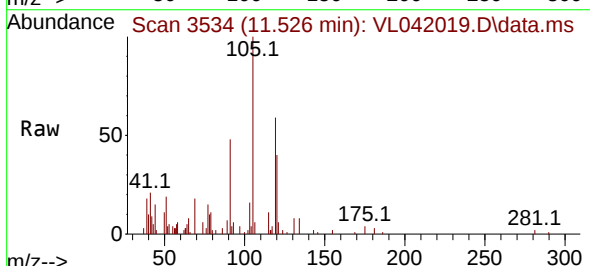
Ion Ratio Lower Upper

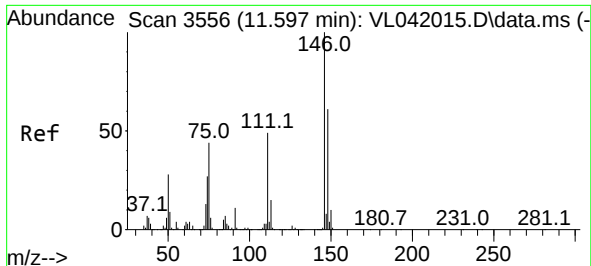
105 100

120 40.0 37.5 56.3

91 48.2 51.7 77.5#

77 15.5 18.8 28.2#

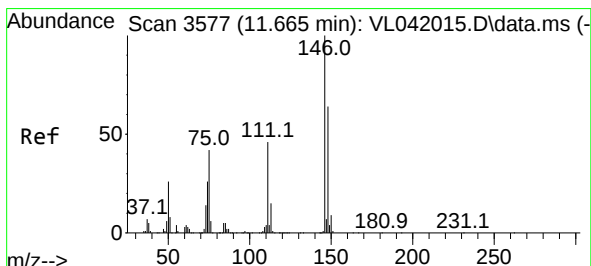
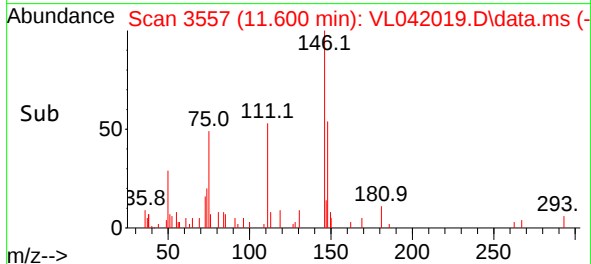
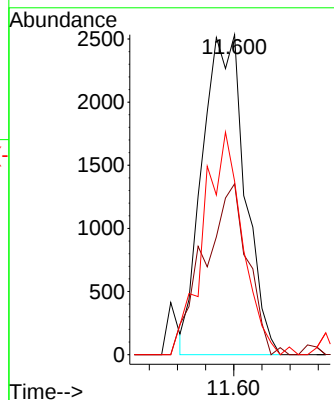
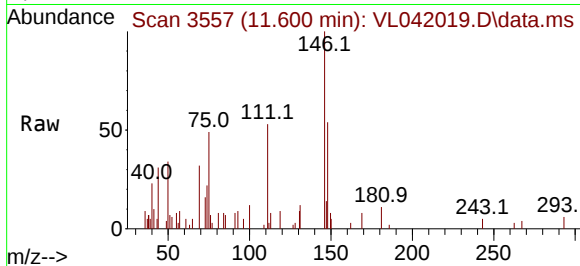




#75
1,3-Dichlorobenzene
Concen: 0.105 ppbv
RT: 11.600 min Scan# 3556
Delta R.T. 0.003 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

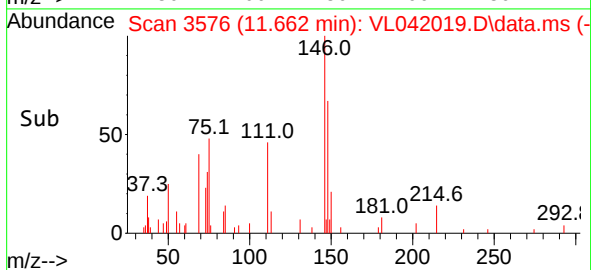
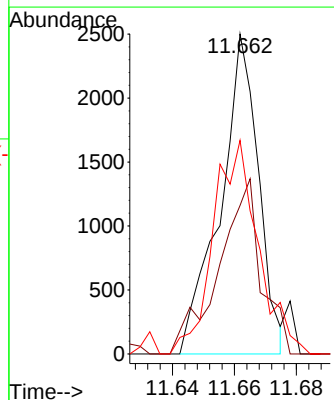
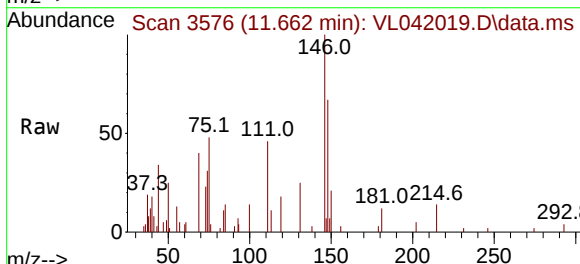
Instrument :
MSVOA_L
ClientSampleId :

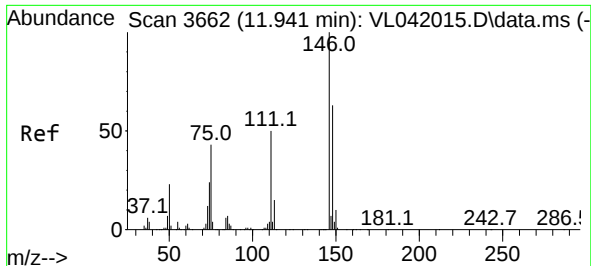
Tgt Ion:146 Resp: 2658
Ion Ratio Lower Upper
146 100
111 58.6 23.9 71.7
148 64.1 31.5 94.5



#76
1,4-Dichlorobenzene
Concen: 0.087 ppbv
RT: 11.662 min Scan# 3576
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion:146 Resp: 2142
Ion Ratio Lower Upper
146 100
111 60.5 23.5 70.5
148 78.5 32.3 96.9

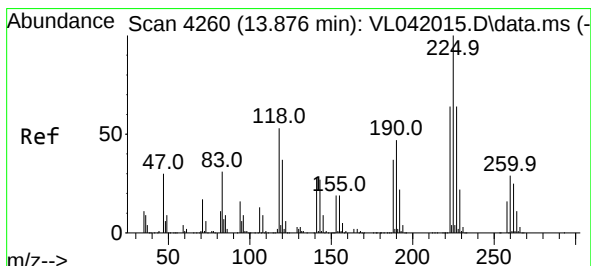
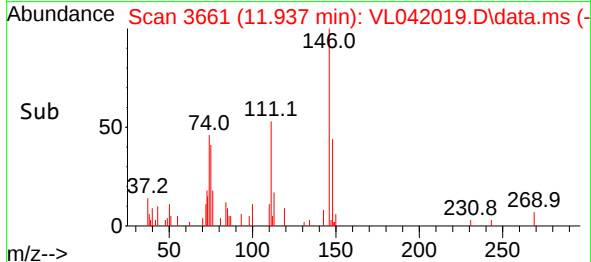
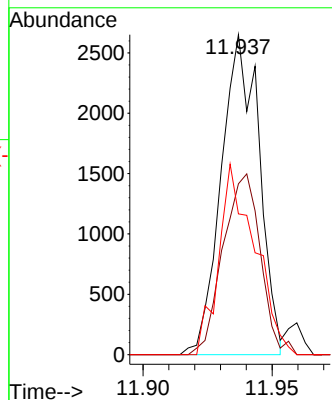
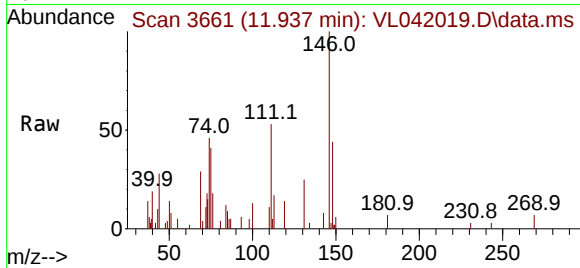




#77
1,2-Dichlorobenzene
Concen: 0.112 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

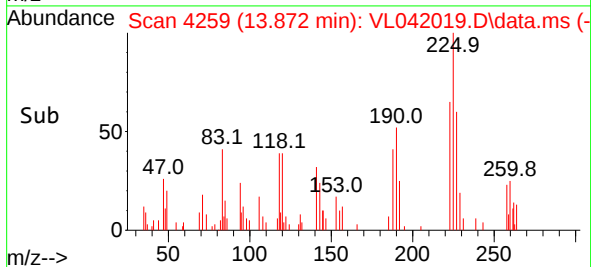
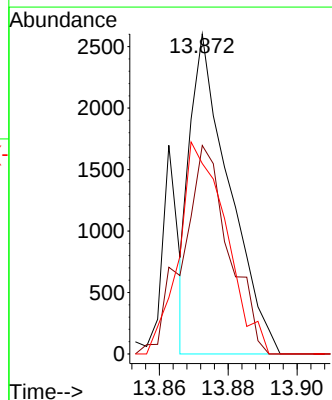
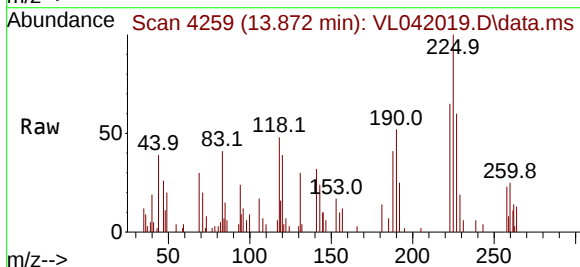
Instrument :
MSVOA_L
ClientSampleId :

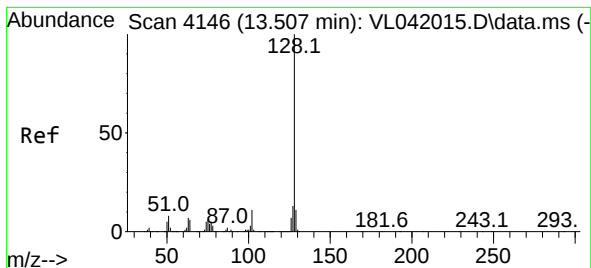
Tgt Ion:146 Resp: 2703
Ion Ratio Lower Upper
146 100
111 55.8 25.6 76.8
148 56.7 31.9 95.7



#78
Hexachloro-1,3-Butadiene
Concen: 0.103 ppbv
RT: 13.872 min Scan# 4259
Delta R.T. -0.004 min
Lab File: VL042019.D
Acq: 14 Feb 2025 14:27

Tgt Ion:225 Resp: 2047
Ion Ratio Lower Upper
225 100
223 77.1 50.6 75.8#
227 80.0 50.9 76.3#





#79

Naphthalene

Concen: 0.100 ppbv

RT: 13.507 min Scan# 4146

Delta R.T. -0.000 min

Lab File: VL042019.D

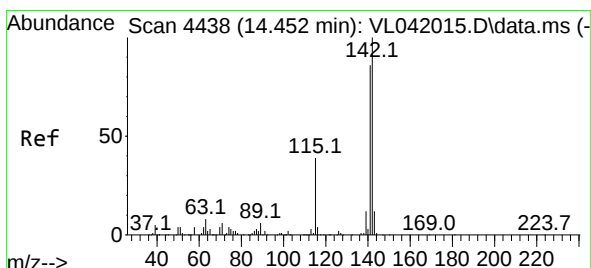
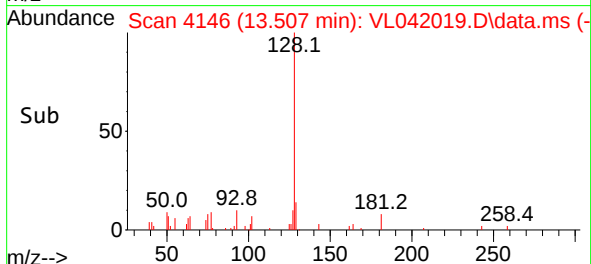
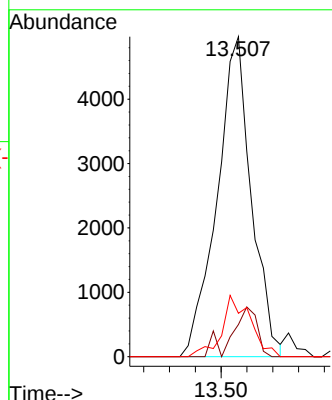
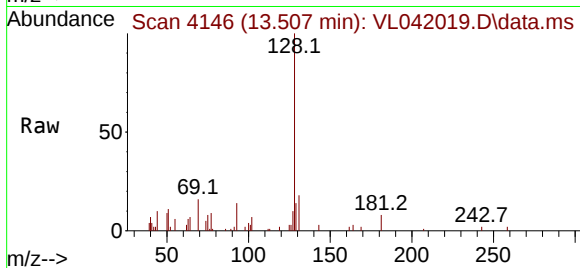
Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:128	Resp:	4590
Ion Ratio	Lower	Upper
128	100	
127	10.0	10.2 15.2#
129	13.6	8.6 13.0#



#80

Naphthalene,2-methyl-

Concen: 0.083 ppbv

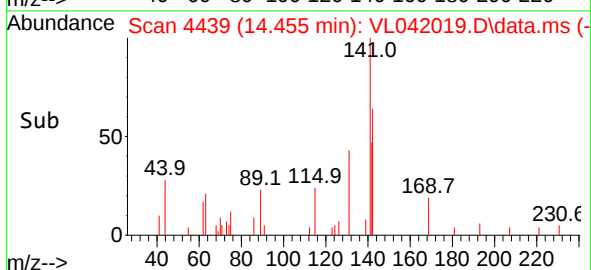
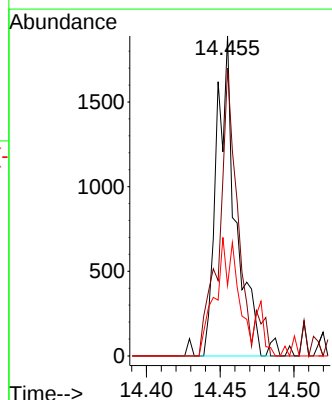
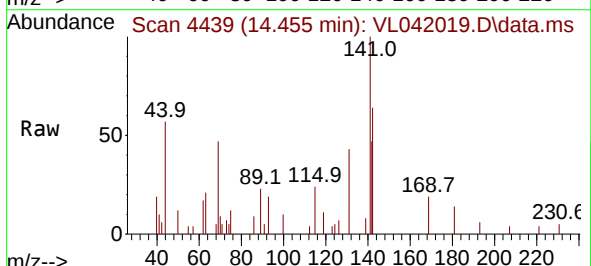
RT: 14.455 min Scan# 4439

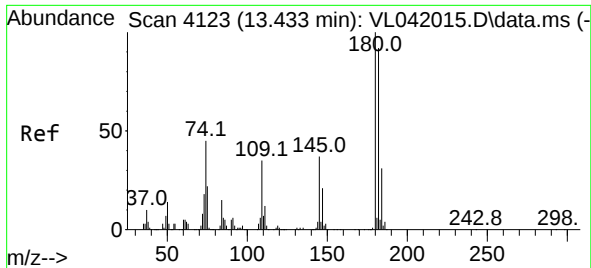
Delta R.T. 0.003 min

Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Tgt Ion:142	Resp:	1738
Ion Ratio	Lower	Upper
142	100	
141	89.4	68.2 102.2
115	50.2	33.6 50.4





#81

1,2,4-Trichlorobenzene

Concen: 0.066 ppbv

RT: 13.439 min Scan# 41

Delta R.T. 0.006 min

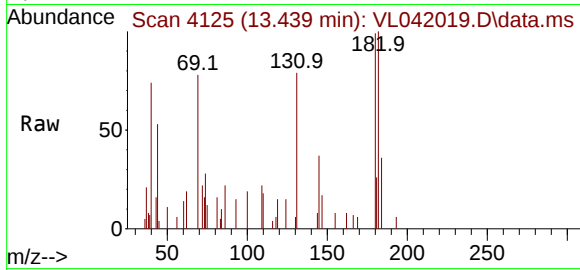
Lab File: VL042019.D

Acq: 14 Feb 2025 14:27

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	180	Resp:	1245
Ion	Ratio	Lower	Upper
180	100		
182	143.0	75.8	113.6#
184	33.3	24.2	36.4

