

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042354.D
 Acq On : 17 Apr 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	120042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	349264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	312999	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	256230	9.962	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

Target Compounds						Qvalue
3) Chlorodifluoromethane	1.479	51	1404	0.070	ppbv #	78
4) Chloromethane	1.534	50	773	0.092	ppbv #	72
5) Vinyl Chloride	1.583	62	361	0.040	ppbv #	76
6) Bromomethane	1.667	94	232	0.059	ppbv #	8
7) Chloroethane	1.699	64	237	0.072	ppbv #	46
8) Dichlorotetrafluoroethane	1.554	85	823	0.045	ppbv	95
9) Propene	1.486	41	508	0.055	ppbv #	15
10) Heptane	4.981	43	435	0.018	ppbv #	1
12) 1,1,2-Trichlorotrifluo...	2.143	101	793	0.048	ppbv #	73
13) Ethanol	1.434	45	60931	81.065	ppbv	74
14) Bromoethene	1.787	108	207	0.033	ppbv #	1
15) Acetone	1.839	43	3597	0.183	ppbv #	89
16) 1,3-Butadiene	1.609	39	573	0.062	ppbv #	1
17) tert-Butyl alcohol	2.049	59	991	0.041	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	455	0.057	ppbv #	43
19) Isopropyl Alcohol	1.434	45	60931	5.582	ppbv #	33
20) Methylene Chloride	2.065	84	2904	0.377	ppbv	86
21) Allyl Chloride	2.097	41	1132	0.083	ppbv #	1
22) trans-1,2-Dichloroethene	2.340	96	287	0.033	ppbv #	32
23) Vinyl Acetate	2.466	43	490	0.062	ppbv #	86
24) 1,1-Dichloroethane	2.415	63	1030	0.062	ppbv #	74
25) Ethyl Acetate	2.835	43	2744	0.057	ppbv #	75
26) Hexane	2.832	57	2398	0.122	ppbv #	65
27) Carbon Disulfide	2.152	76	984	0.047	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	426	0.033	ppbv #	48
30) Cyclohexane	3.855	84	311	0.020	ppbv #	1
31) cis-1,2-Dichloroethene	2.725	61	831	0.045	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	809	0.027	ppbv #	52
34) 2-Butanone	2.564	43	510	0.018	ppbv #	53
35) Carbon Tetrachloride	3.768	117	862	0.027	ppbv #	45
36) Benzene	3.667	78	1629	0.043	ppbv #	75
38) Trichloroethene	4.557	130	271	0.016	ppbv #	27
39) 1,2-Dichloropropane	3.965	63	90827	6.465	ppbv #	22
40) 1,4-Dioxane	4.625	88	139	0.018	ppbv #	1
42) Bromodichloromethane	4.496	83	1093	0.035	ppbv #	82
43) Methyl Methacrylate	4.891	69	354	0.021	ppbv #	3
44) 2,2,4-Trimethylpentane	4.641	57	1377	0.021	ppbv #	1
45) t-1,3-Dichloropropene	6.415	75	183	0.011	ppbv	100
46) cis-1,3-Dichloropropene	5.606	75	546	0.026	ppbv #	37
47) 1,1,2-Trichloroethane	6.590	97	225	0.016	ppbv #	40
48) Dibromochloromethane	7.399	129	258	0.010	ppbv #	10
49) Bromoform	9.493	173	285	0.013	ppbv #	1
53) Toluene	6.943	91	464	0.010	ppbv #	1

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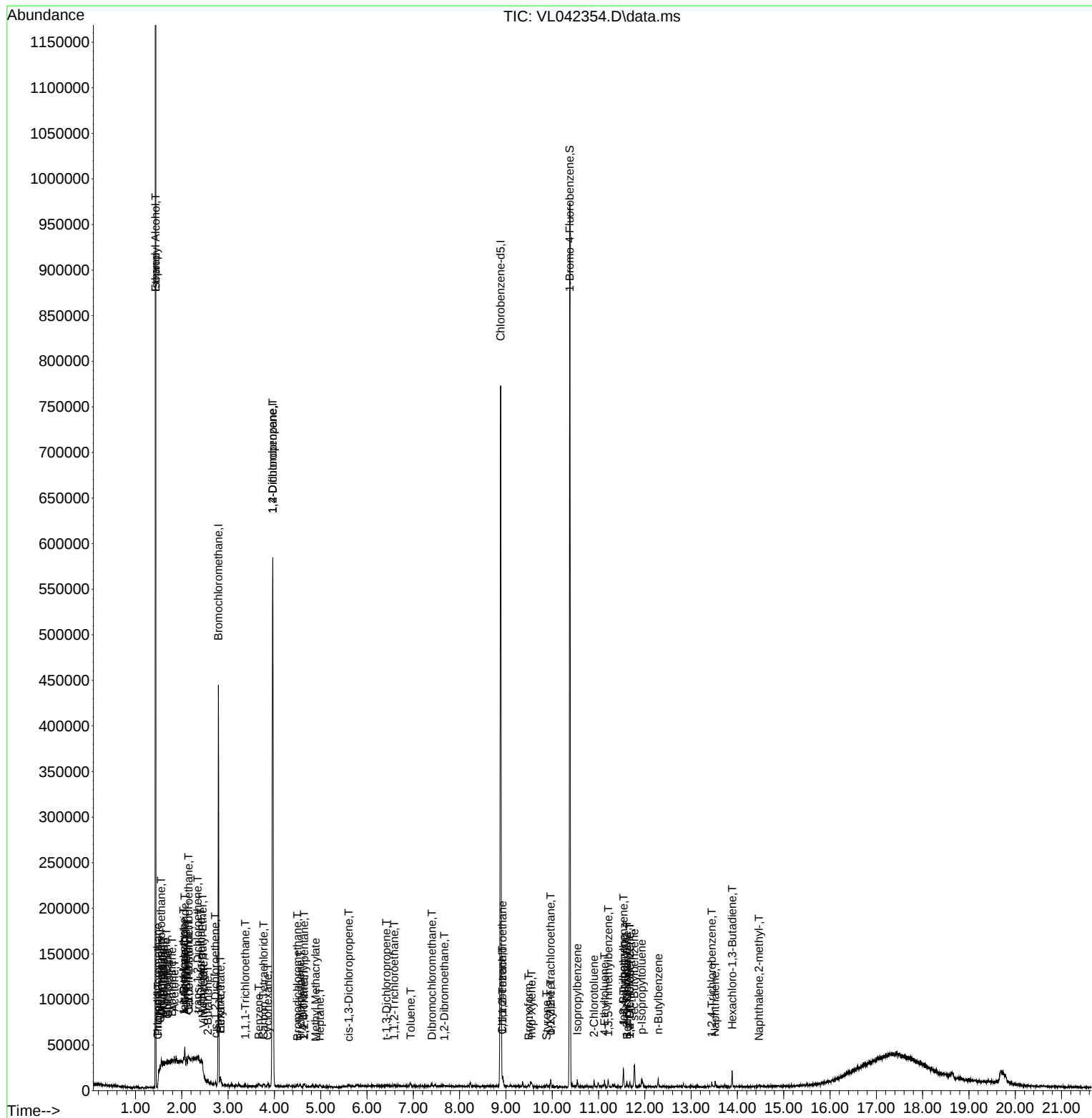
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
54) 1,2-Dibromoethane	7.668	107	422	0.021	ppbv	#	12
56) 1,1,1,2-Tetrachloroethane	8.927	131	589	0.031	ppbv	#	1
57) Chlorobenzene	8.920	112	567	0.017	ppbv	#	74
59) m/p-Xylene	9.555	91	1648	0.033	ppbv	#	32
60) o-Xylene	9.966	91	1938	0.039	ppbv		84
61) Styrene	9.875	104	813	0.034	ppbv		93
62) Isopropylbenzene	10.542	105	2934	0.040	ppbv		92
63) 1,1,2,2-Tetrachloroethane	9.966	83	826	0.025	ppbv	#	58
65) tert-Butylbenzene	11.536	119	2656	0.039	ppbv		90
66) Benzyl Chloride	11.620	91	130	0.017	ppbv	#	70
67) sec-Butylbenzene	11.772	105	3658	0.039	ppbv	#	85
69) p-Isopropyltoluene	11.930	119	3139	0.038	ppbv		94
70) n-Butylbenzene	12.290	91	2516	0.029	ppbv	#	81
71) 2-Chlorotoluene	10.901	91	2537	0.044	ppbv		99
72) 4-Ethyltoluene	11.128	105	2221	0.036	ppbv	#	69
73) 1,3,5-Trimethylbenzene	11.212	105	2473	0.046	ppbv	#	86
74) 1,2,4-Trimethylbenzene	11.539	105	4320	0.068	ppbv	#	80
75) 1,3-Dichlorobenzene	11.613	146	1056	0.032	ppbv		91
76) 1,4-Dichlorobenzene	11.671	146	1180	0.036	ppbv		95
77) 1,2-Dichlorobenzene	11.671	146	1180	0.037	ppbv		93
78) Hexachloro-1,3-Butadiene	13.889	225	1879	0.058	ppbv		92
79) Naphthalene	13.516	128	2354	0.031	ppbv	#	84
80) Naphthalene,2-methyl-	14.468	142	594	0.014	ppbv	#	52
81) 1,2,4-Trichlorobenzene	13.445	180	614	0.019	ppbv	#	71

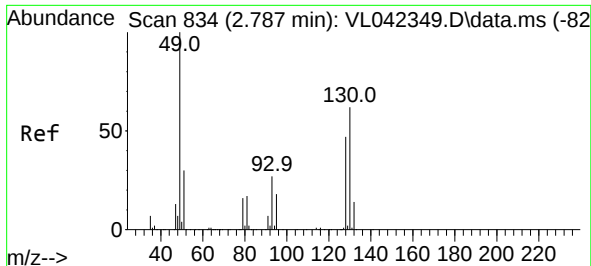
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.790 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

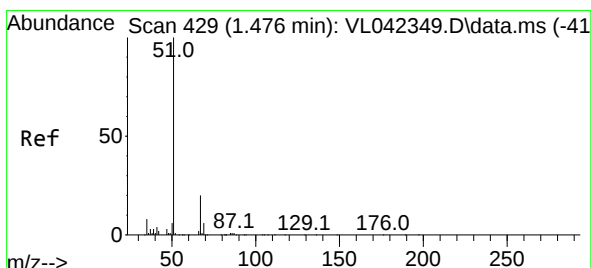
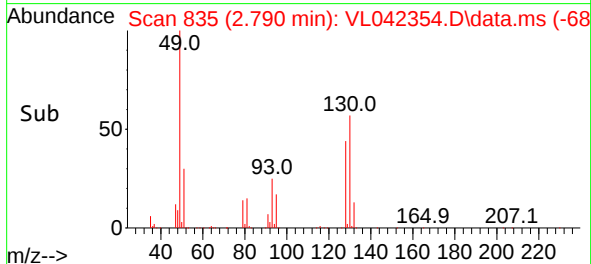
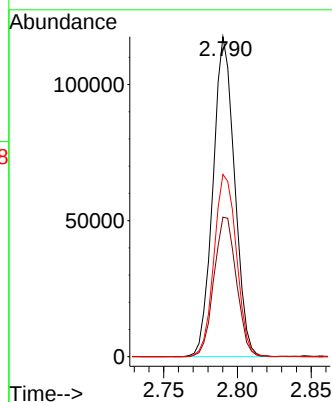
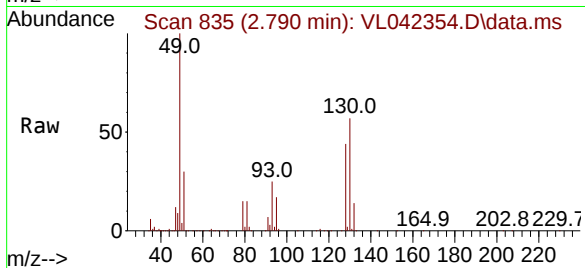
Tgt Ion: 49 Resp: 120042

Ion Ratio Lower Upper

49 100

128 45.3 22.8 68.4

130 59.0 29.3 88.0



#3

Chlorodifluoromethane

Concen: 0.070 ppbv

RT: 1.479 min Scan# 430

Delta R.T. 0.003 min

Lab File: VL042354.D

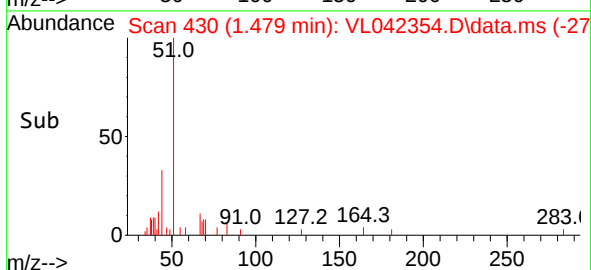
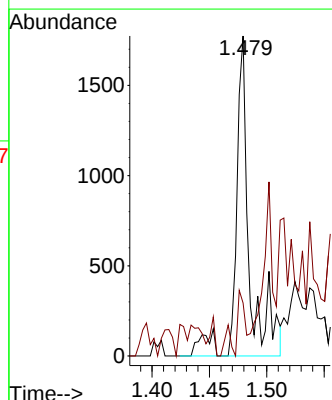
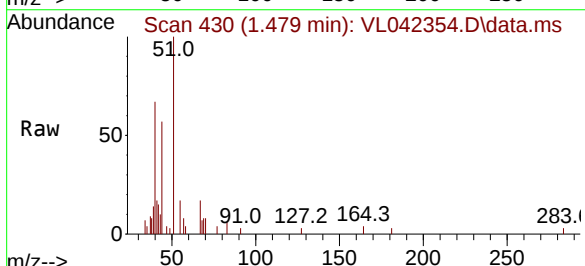
Acq: 17 Apr 2025 12:22

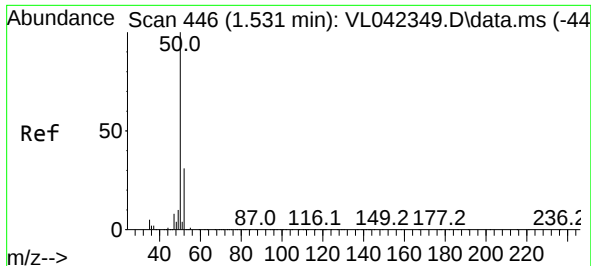
Tgt Ion: 51 Resp: 1404

Ion Ratio Lower Upper

51 100

67 30.7 16.2 24.4#

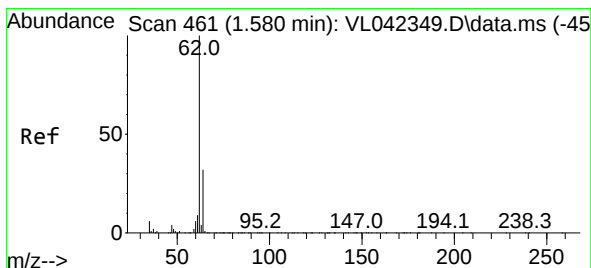
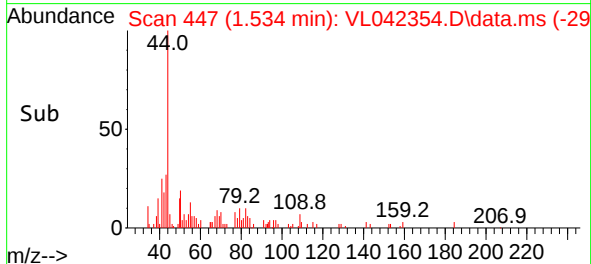
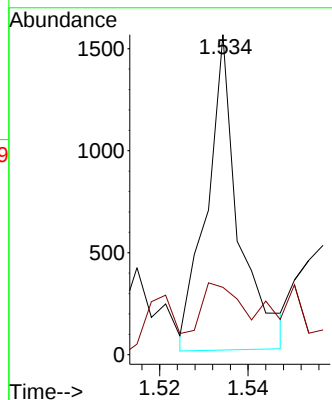
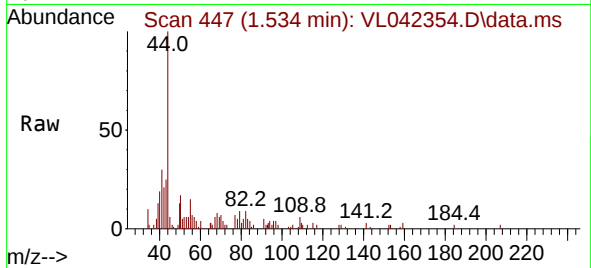




#4
Chloromethane
Concen: 0.092 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

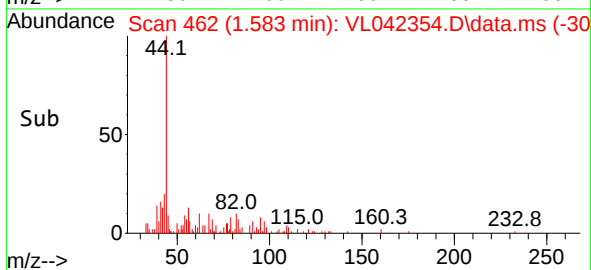
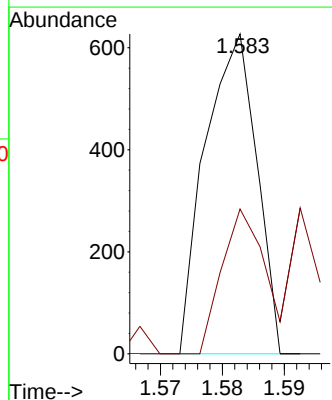
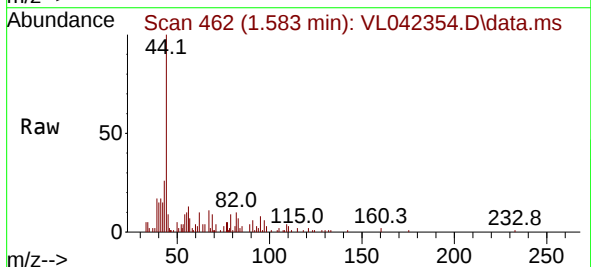
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

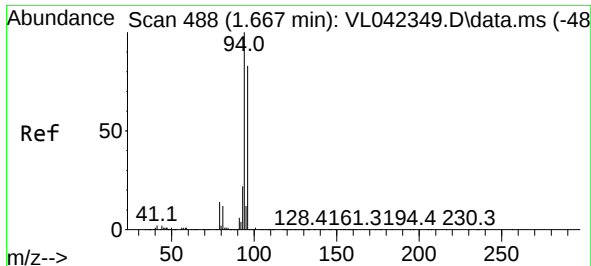
Tgt Ion: 50 Resp: 773
Ion Ratio Lower Upper
50 100
52 15.3 24.7 37.1#



#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361
Ion Ratio Lower Upper
62 100
64 45.3 25.4 38.0#

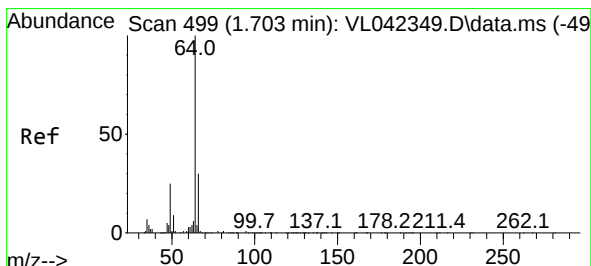
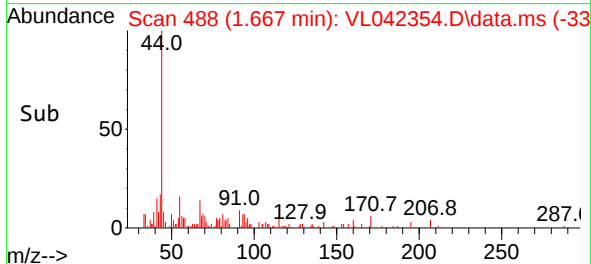
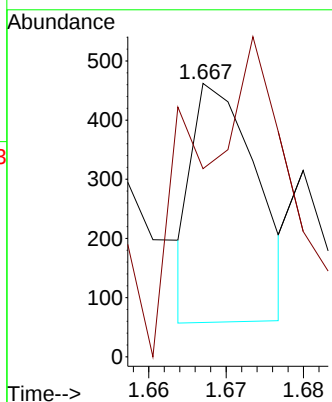
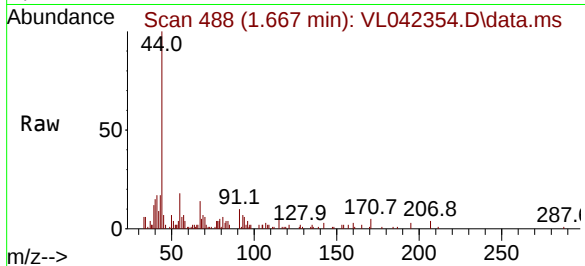




#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.667 min Scan# 488
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

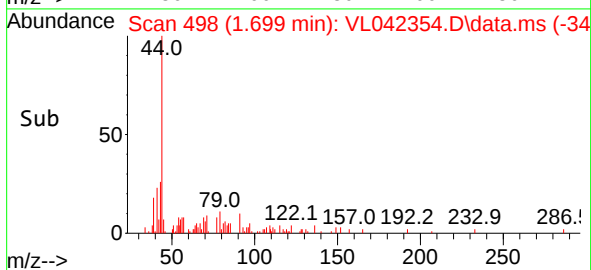
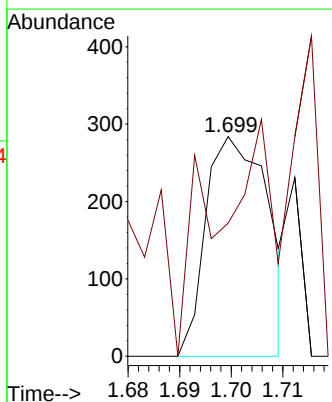
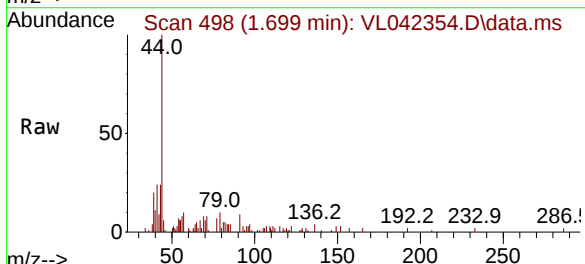
Instrument :
MSVOA_L
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VSTDIC0.03

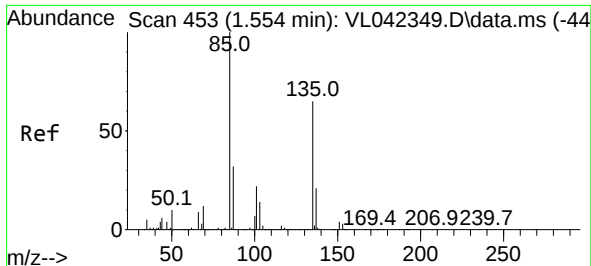
Tgt Ion: 94 Resp: 232
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#7
Chloroethane
Concen: 0.072 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 64 Resp: 237
Ion Ratio Lower Upper
64 100
66 60.6 24.6 37.0#

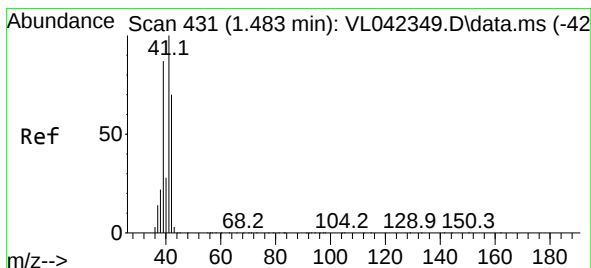
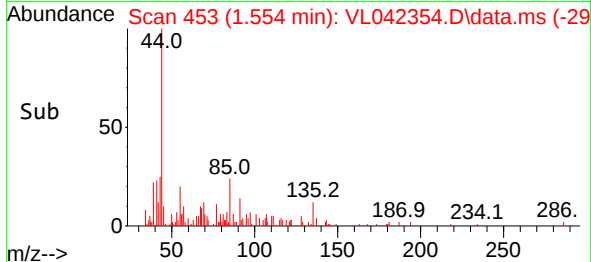
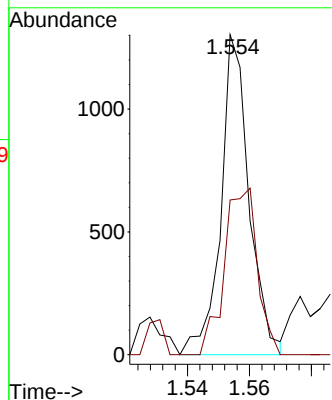
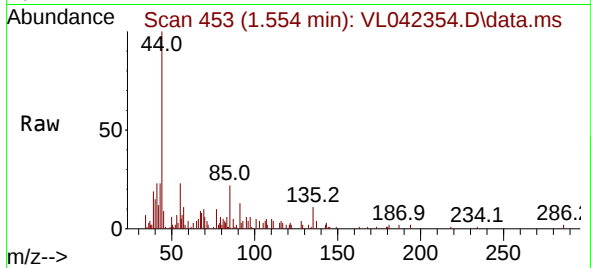




#8
Dichlorotetrafluoroethane
Concen: 0.045 ppbv
RT: 1.554 min Scan# 411
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

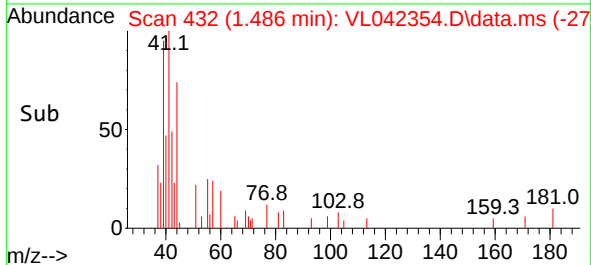
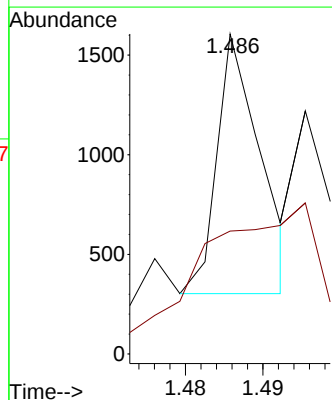
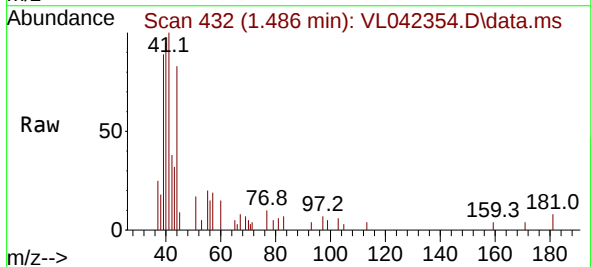
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VSTDICC0.03

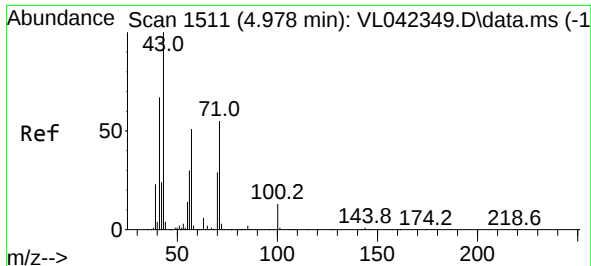
Tgt Ion: 85 Resp: 823
Ion Ratio Lower Upper
85 100
135 69.1 52.2 78.2



#9
Propene
Concen: 0.055 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 41 Resp: 508
Ion Ratio Lower Upper
41 100
42 0.0 56.2 84.4#





#10

Heptane

Concen: 0.018 ppbv

RT: 4.981 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

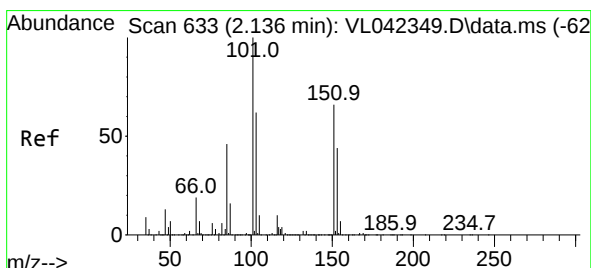
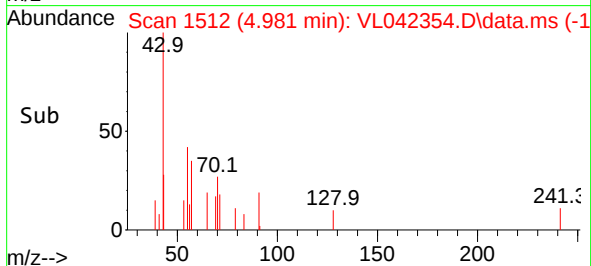
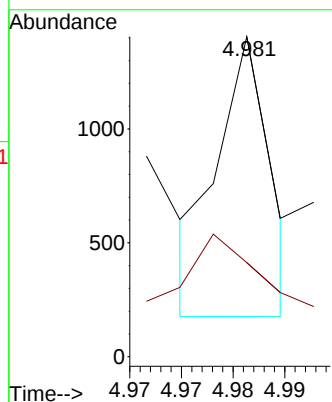
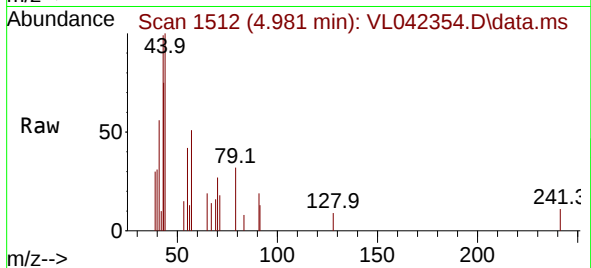
VSTDIC0.03

Tgt Ion: 43 Resp: 435

Ion Ratio Lower Upper

43 100

57 283.4 39.9 59.9#



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.048 ppbv

RT: 2.143 min Scan# 635

Delta R.T. 0.006 min

Lab File: VL042354.D

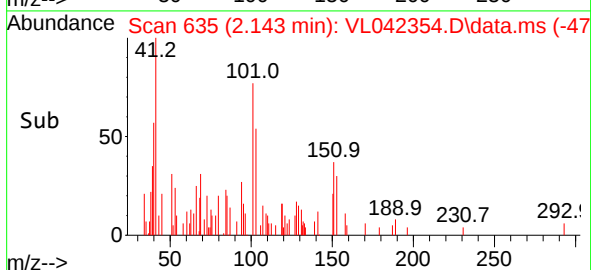
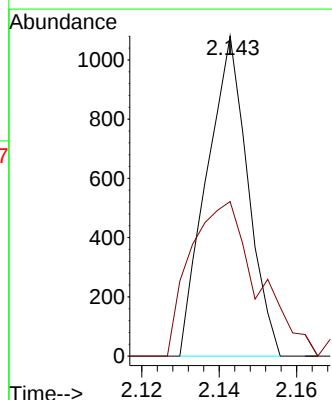
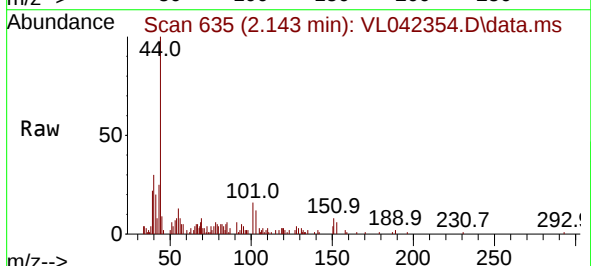
Acq: 17 Apr 2025 12:22

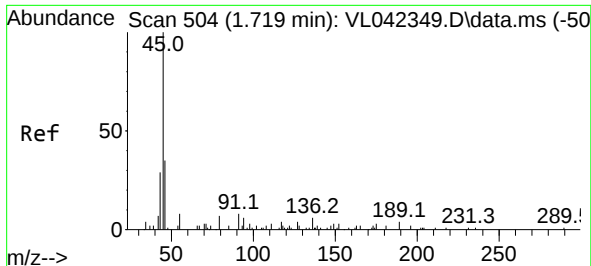
Tgt Ion:101 Resp: 793

Ion Ratio Lower Upper

101 100

151 93.3 57.0 85.6#

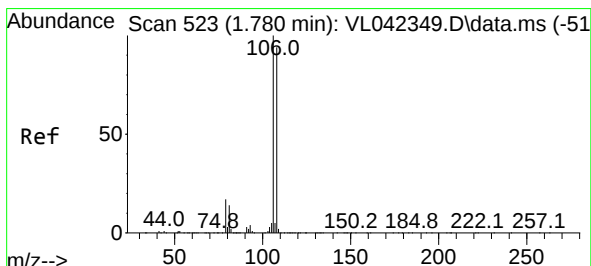
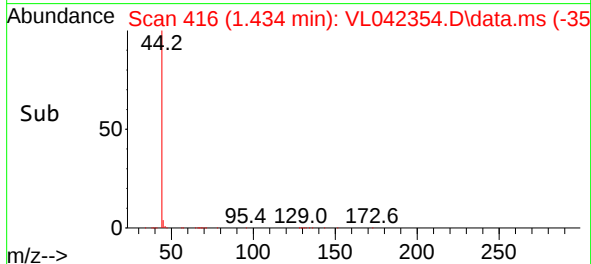
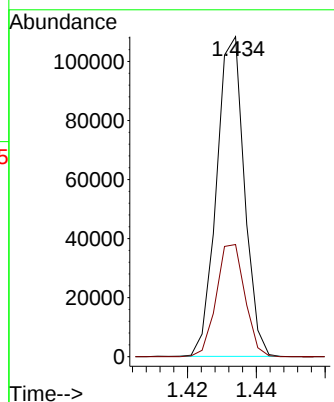
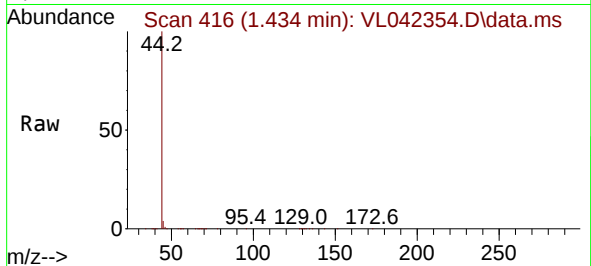




#13
Ethanol
Concen: 81.065 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.285 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

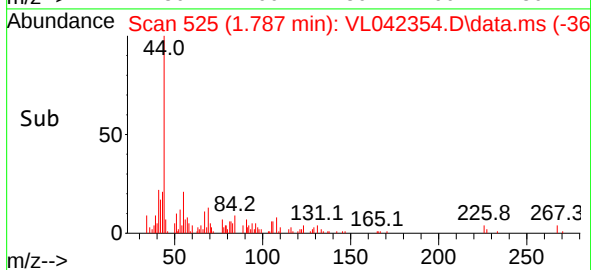
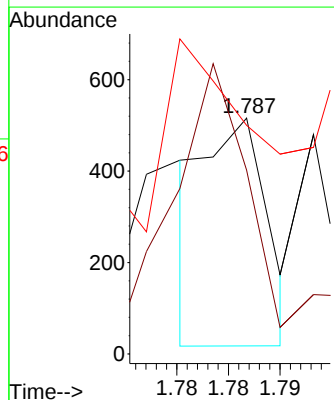
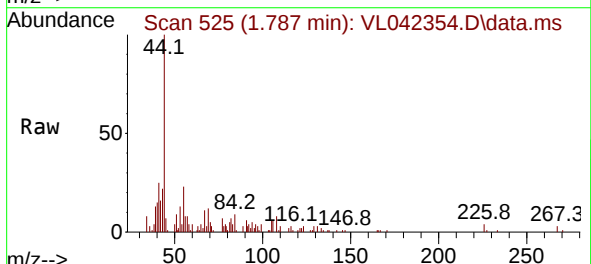
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

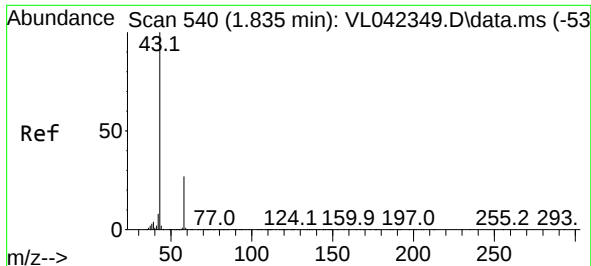
Tgt Ion: 45 Resp: 60931
Ion Ratio Lower Upper
45 100
46 36.1 21.9 87.7



#14
Bromoethene
Concen: 0.033 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 108 Resp: 207
Ion Ratio Lower Upper
108 100
106 248.3 85.9 128.9#
79 0.0 13.9 20.9#

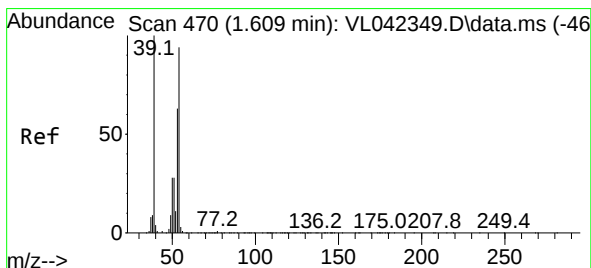
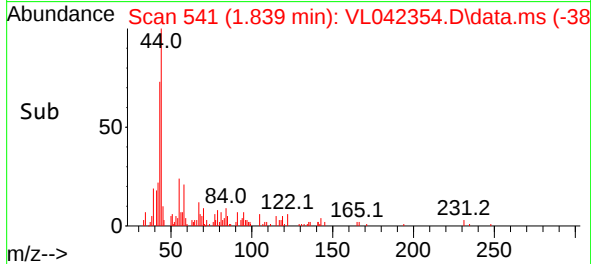
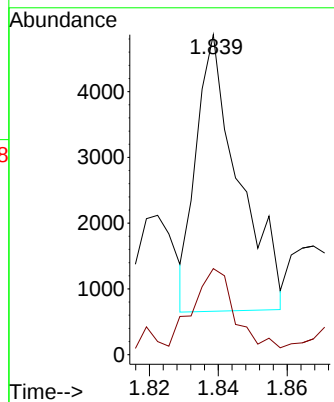
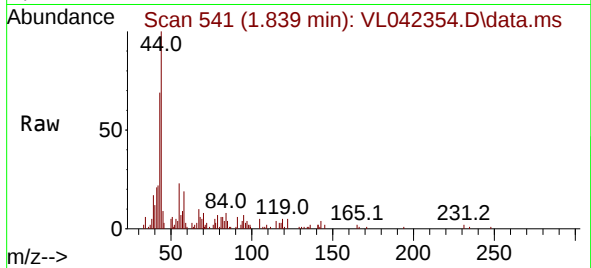




#15
Acetone
Concen: 0.183 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

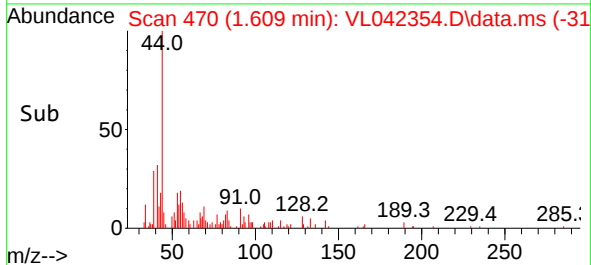
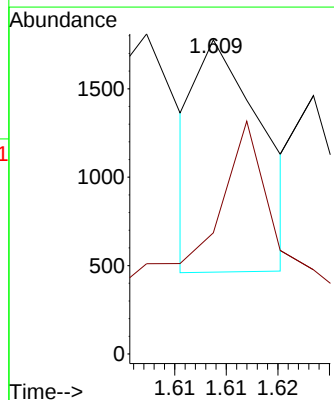
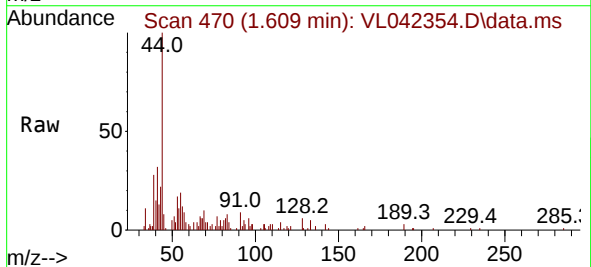
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

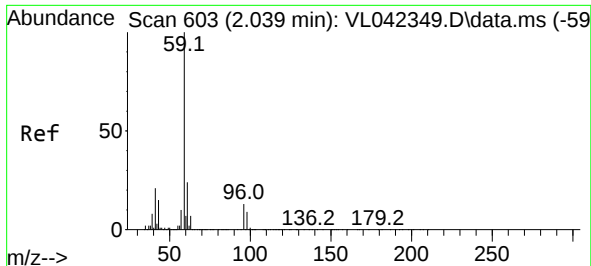
Tgt Ion: 43 Resp: 3597
Ion Ratio Lower Upper
43 100
58 33.7 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.062 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 39 Resp: 573
Ion Ratio Lower Upper
39 100
54 377.0 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

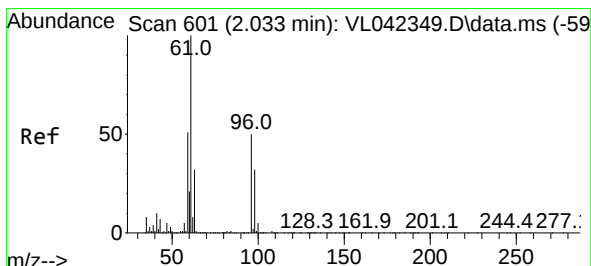
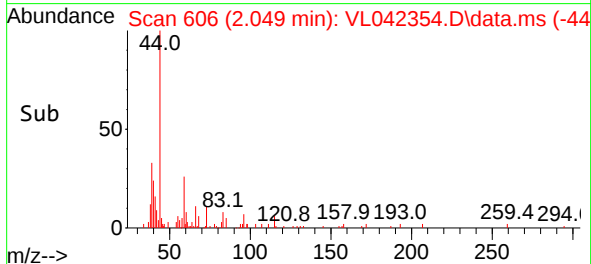
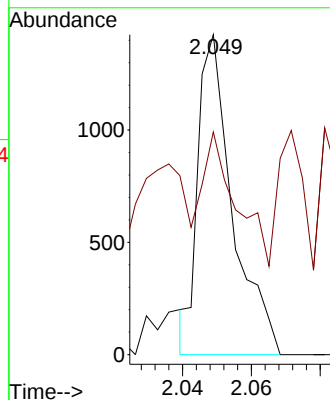
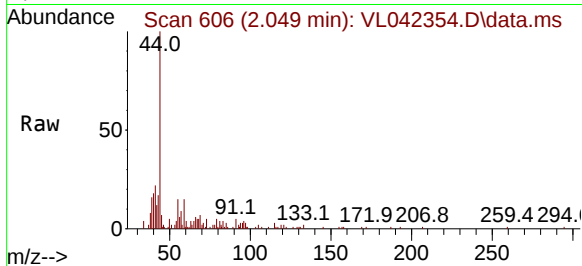
VSTDIC0.03

Tgt Ion: 59 Resp: 991

Ion Ratio Lower Upper

59 100

57 113.2 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 0.057 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

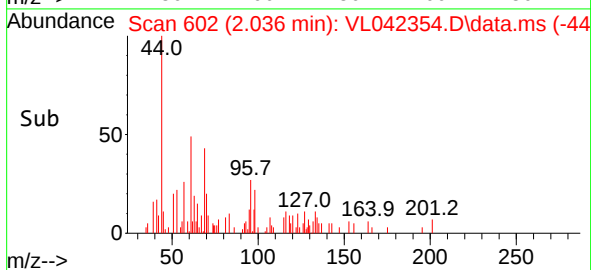
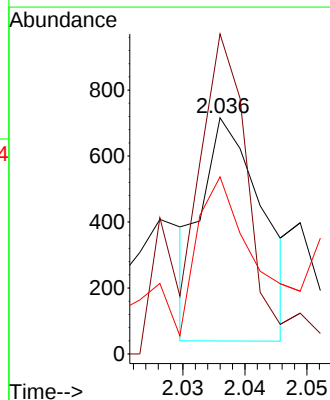
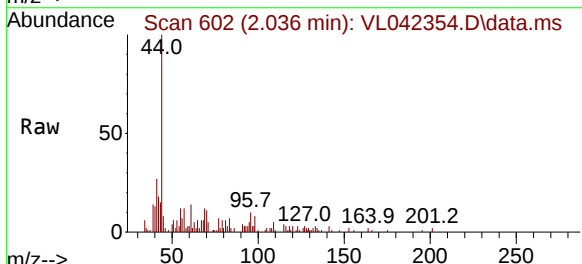
Tgt Ion: 96 Resp: 455

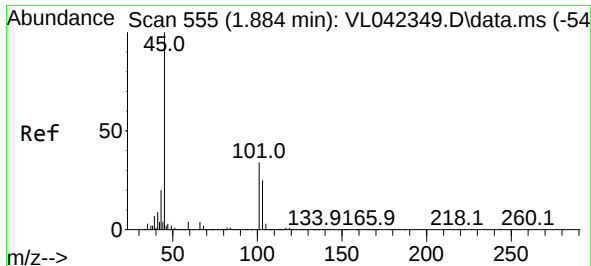
Ion Ratio Lower Upper

96 100

61 271.0 160.2 240.2#

98 132.1 51.0 76.4#





#19

Isopropyl Alcohol

Concen: 5.582 ppbv

RT: 1.434 min Scan# 416

Delta R.T. -0.450 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

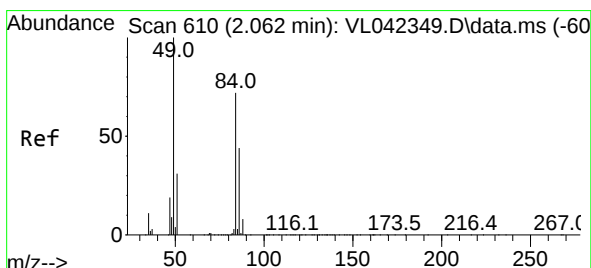
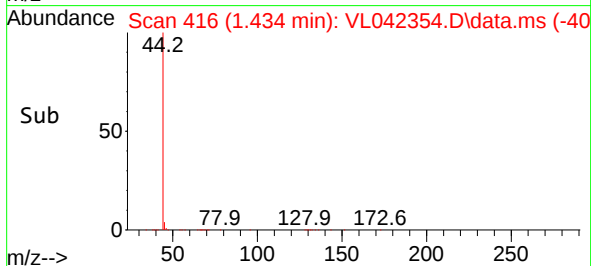
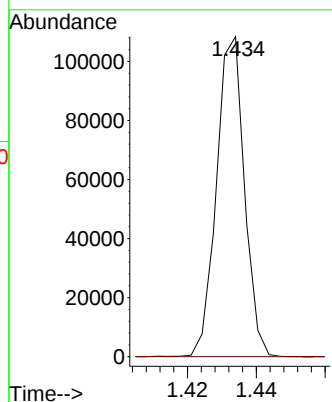
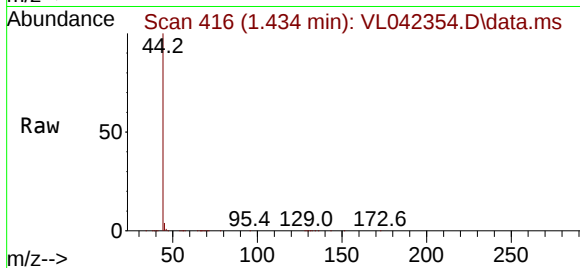
VSTDIC0.03

Tgt Ion: 45 Resp: 60931

Ion Ratio Lower Upper

45 100

58 0.2 34.5 51.7#



#20

Methylene Chloride

Concen: 0.377 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion: 84 Resp: 2904

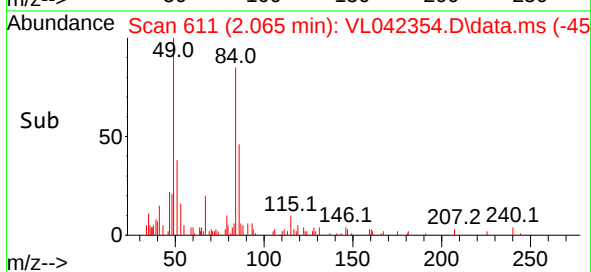
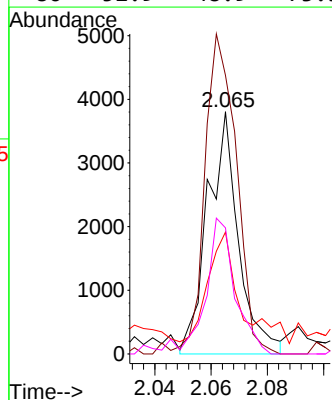
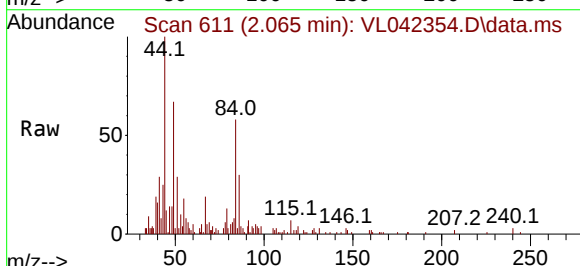
Ion Ratio Lower Upper

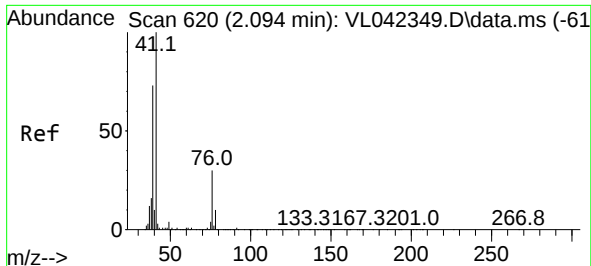
84 100

49 116.9 111.6 167.4

51 46.1 35.1 52.7

86 52.9 48.9 73.3

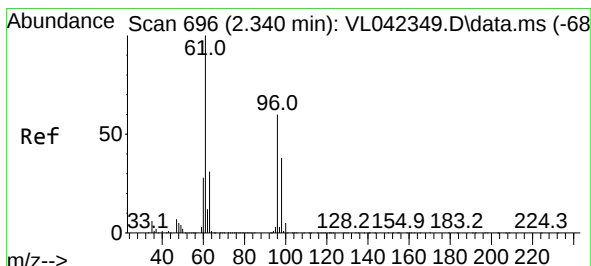
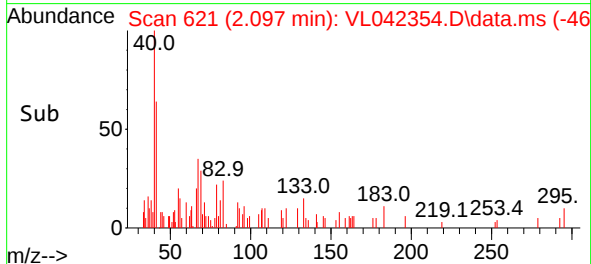
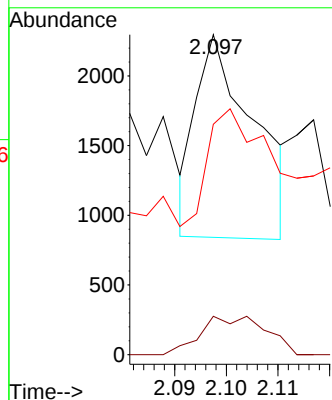
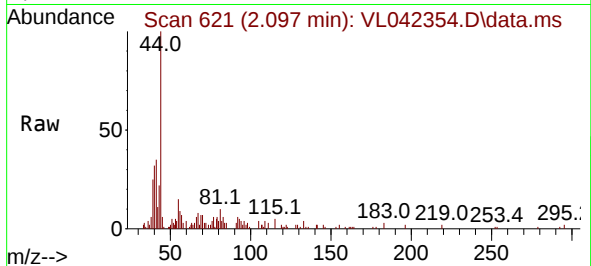




#21
 Allyl Chloride
 Concen: 0.083 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

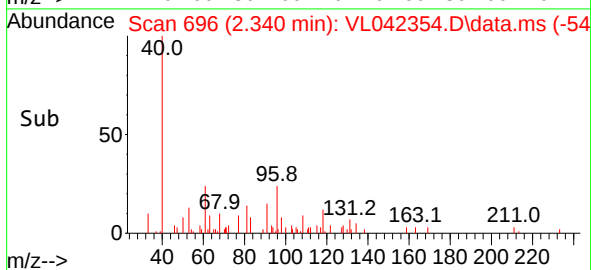
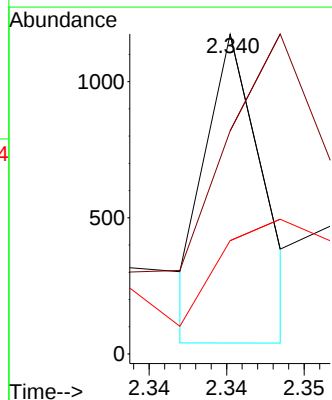
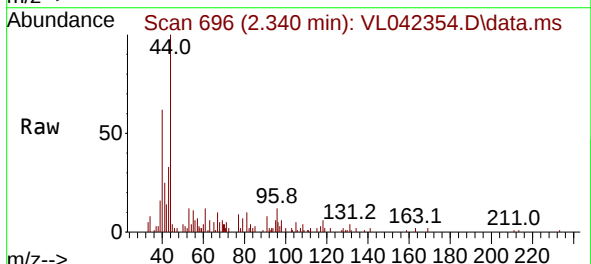
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

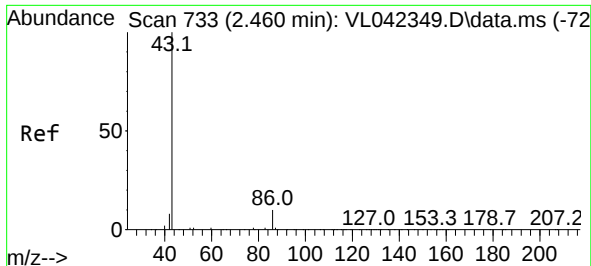
Tgt Ion: 41 Resp: 1132
 Ion Ratio Lower Upper
 41 100
 76 21.5 24.8 37.2#
 39 407.5 60.6 90.8#



#22
 trans-1,2-Dichloroethene
 Concen: 0.033 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 96 Resp: 287
 Ion Ratio Lower Upper
 96 100
 61 58.7 133.7 200.5#
 98 36.0 50.3 75.5#

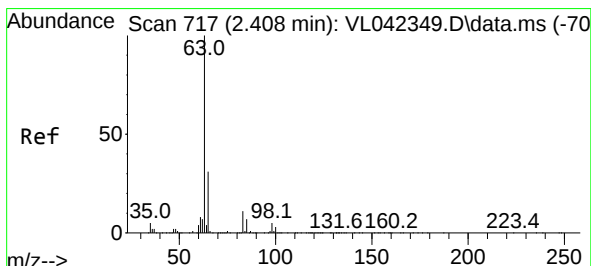
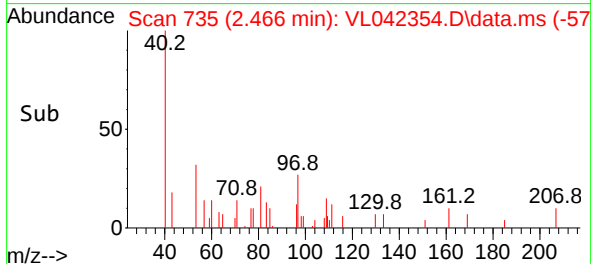
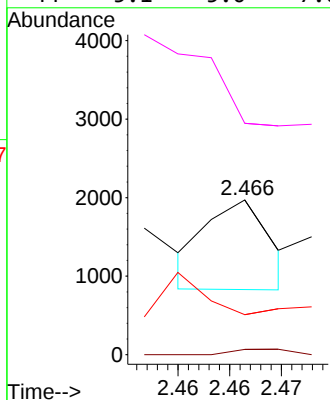
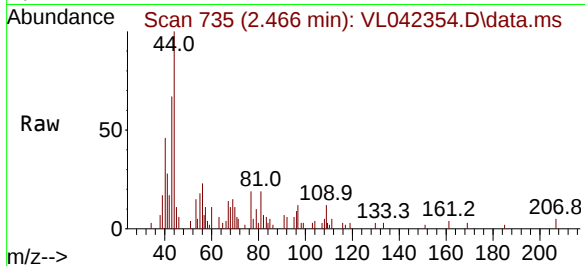




#23
 Vinyl Acetate
 Concen: 0.062 ppbv
 RT: 2.466 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

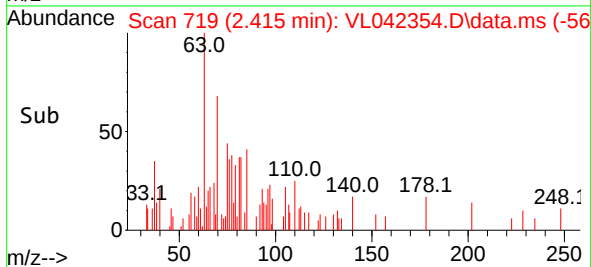
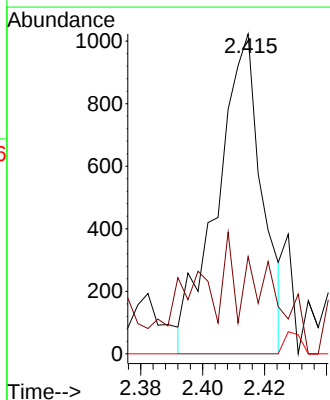
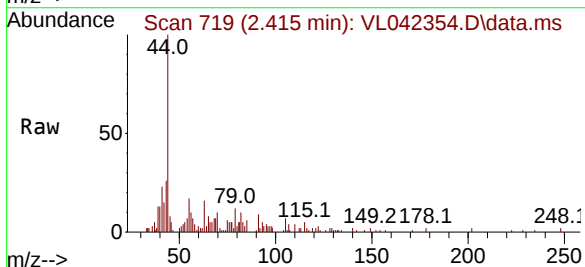
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

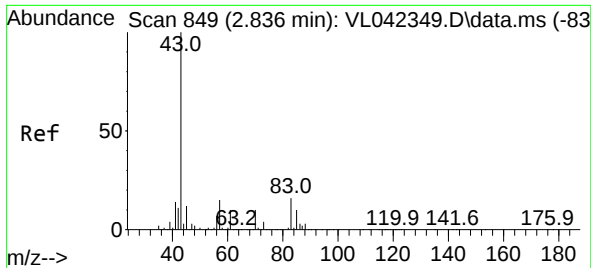
Tgt Ion:	43	Resp:	490
Ion	Ratio	Lower	Upper
43	100		
86	10.1	6.5	9.7#
42	0.0	7.8	11.8#
44	5.1	5.0	7.6



#24
 1,1-Dichloroethane
 Concen: 0.062 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion:	63	Resp:	1030
Ion	Ratio	Lower	Upper
63	100		
98	17.1	2.3	6.8#
100	0.0	1.6	4.8#

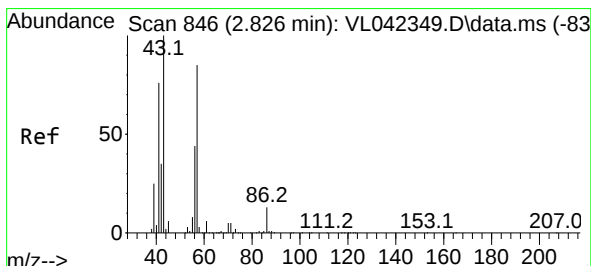
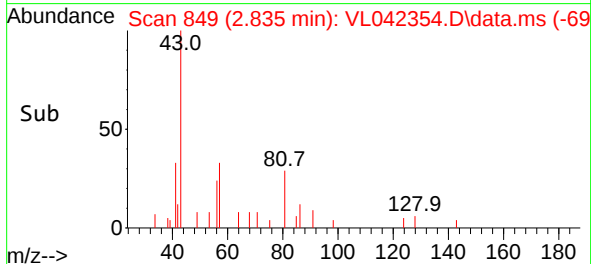
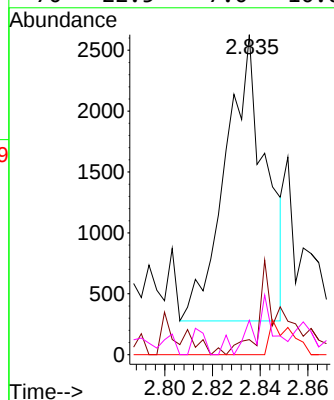
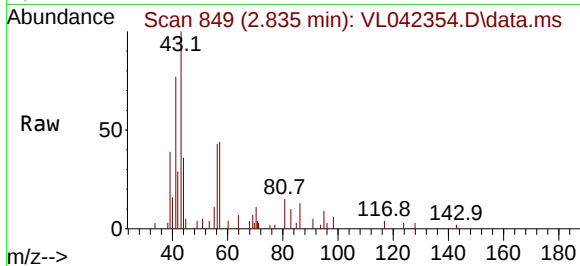




#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

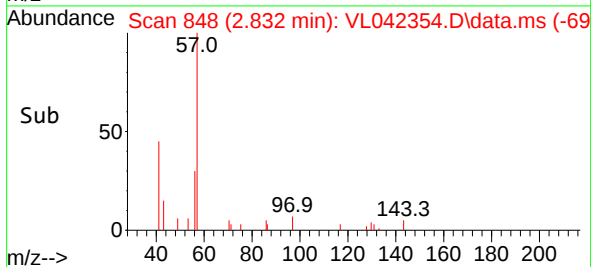
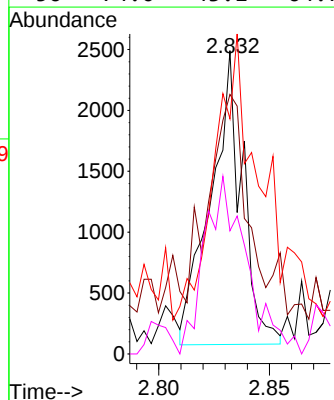
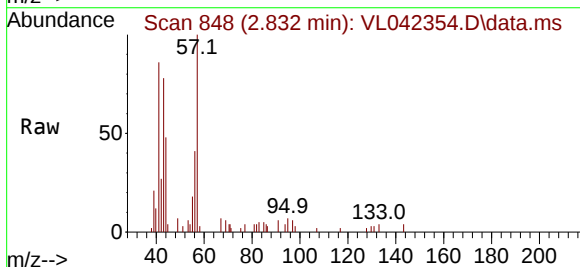
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

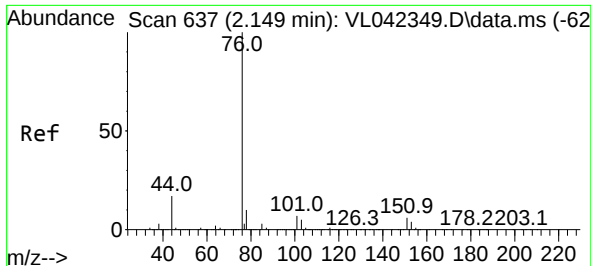
Tgt Ion: 43	Resp: 2744
Ion Ratio	Lower Upper
43 100	
45 21.1	8.3 12.5#
61 6.4	7.3 10.9#
70 22.5	7.0 10.6#



#26
Hexane
Concen: 0.122 ppbv
RT: 2.832 min Scan# 848
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt	Ion: 57	Resp:	2398
Ion	Ratio	Lower	Upper
57	100		
41	125.7	77.9	116.9#
43	191.2	208.4	312.6#
56	74.0	43.1	64.7#





#27

Carbon Disulfide

Concen: 0.047 ppbv

RT: 2.152 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03

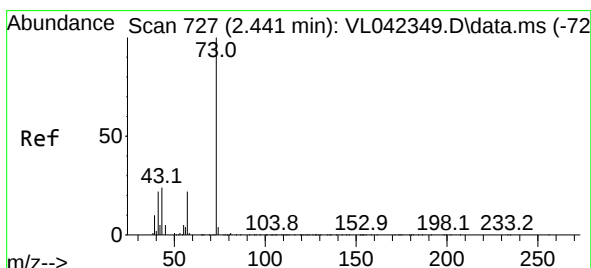
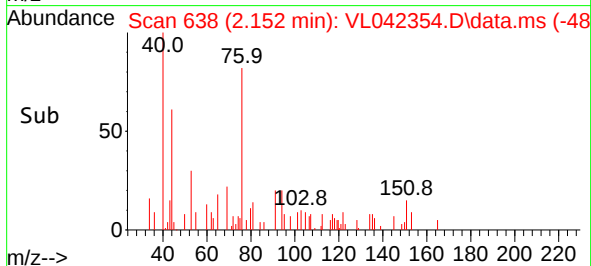
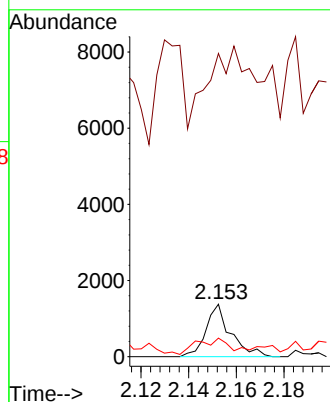
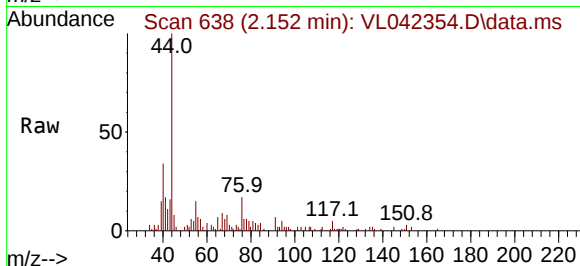
Tgt Ion: 76 Resp: 984

Ion Ratio Lower Upper

76 100

44 1141.4 15.5 23.3#

78 54.0 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 0.033 ppbv

RT: 2.447 min Scan# 729

Delta R.T. 0.006 min

Lab File: VL042354.D

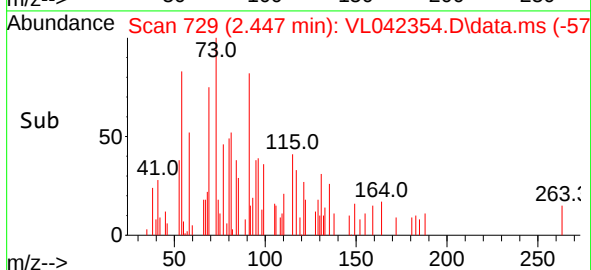
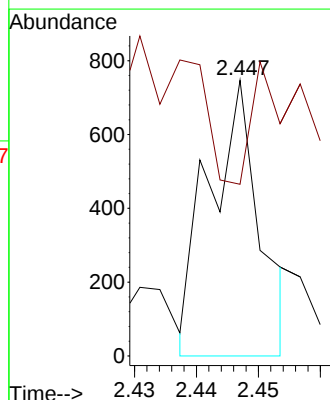
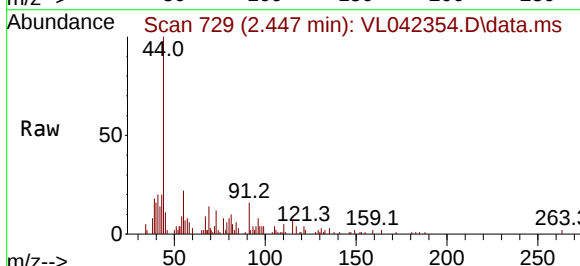
Acq: 17 Apr 2025 12:22

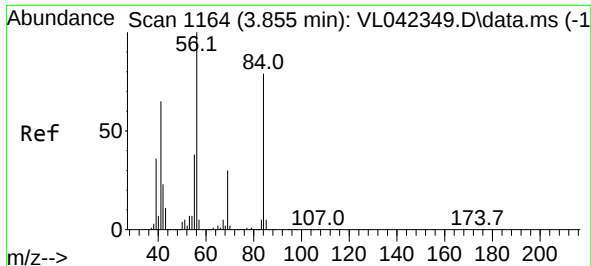
Tgt Ion: 73 Resp: 426

Ion Ratio Lower Upper

73 100

57 0.0 21.3 31.9#

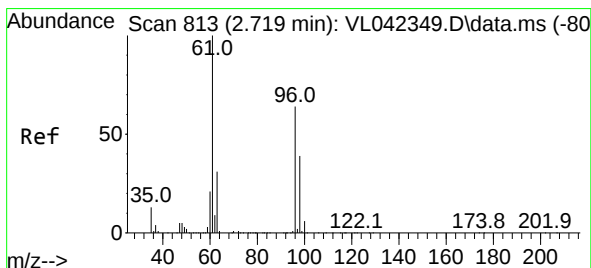
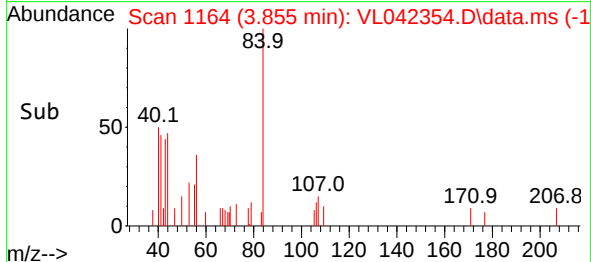
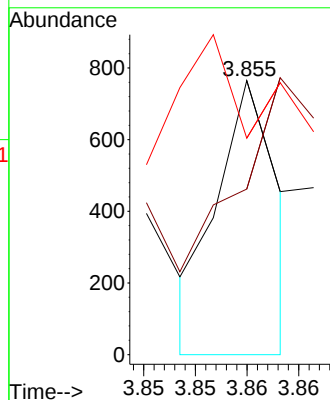
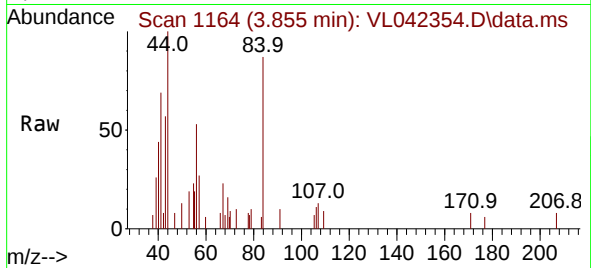




#30
Cyclohexane
Concen: 0.020 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

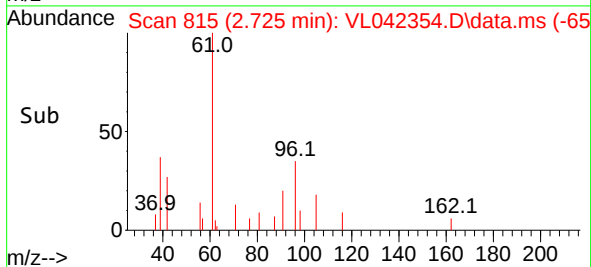
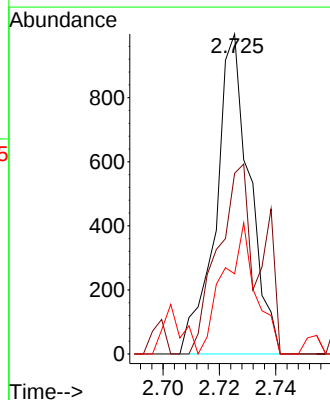
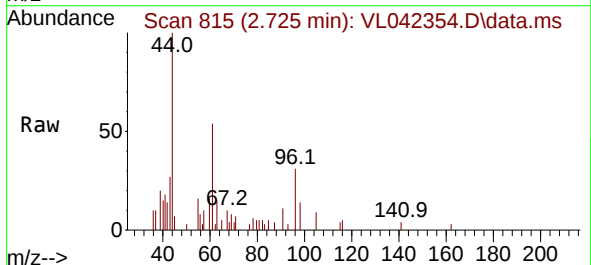
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

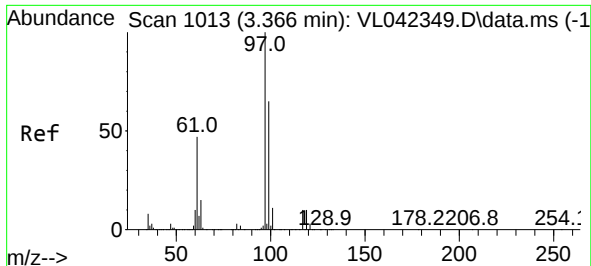
Tgt Ion: 84 Resp: 311
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4#
41 0.0 67.4 101.0#



#31
cis-1,2-Dichloroethene
Concen: 0.045 ppbv
RT: 2.725 min Scan# 815
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 61 Resp: 831
Ion Ratio Lower Upper
61 100
96 56.5 50.8 76.2
98 25.0 30.9 46.3#

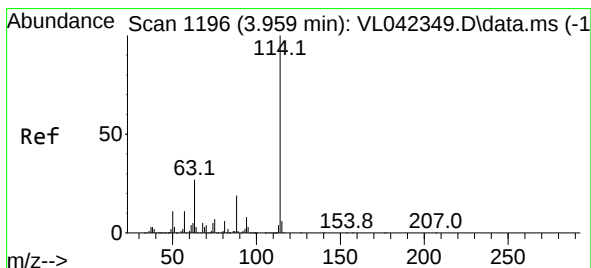
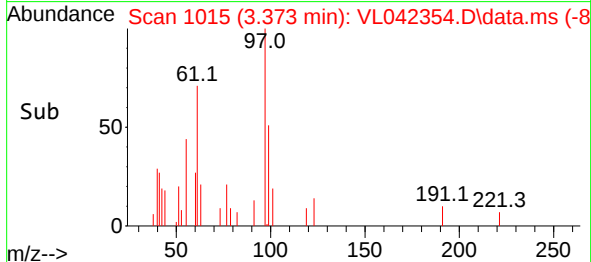
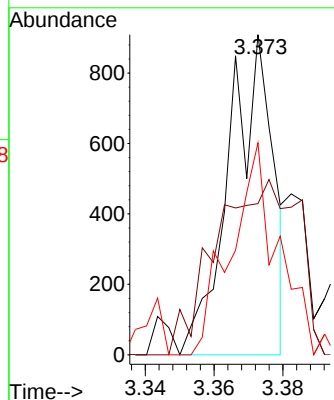
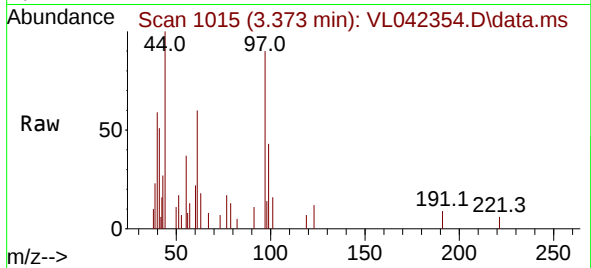




#32
 1,1,1-Trichloroethane
 Concen: 0.027 ppbv
 RT: 3.373 min Scan# 1109
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

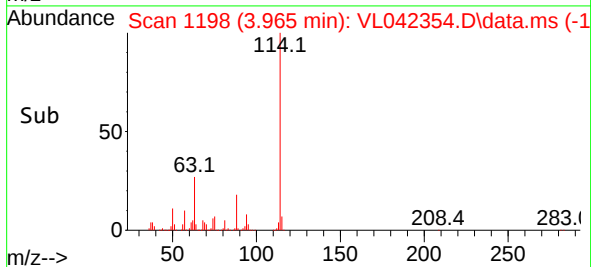
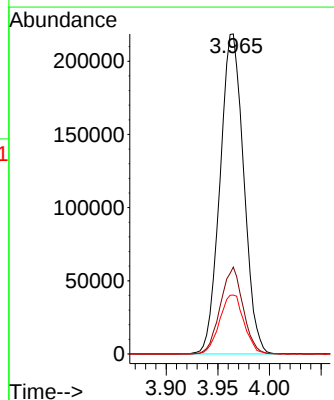
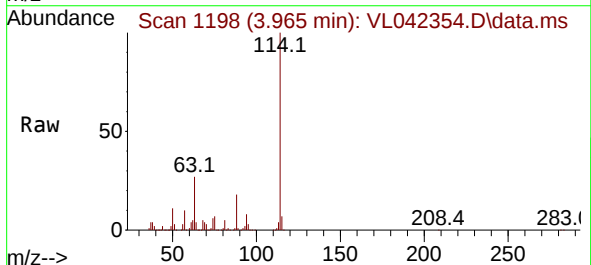
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

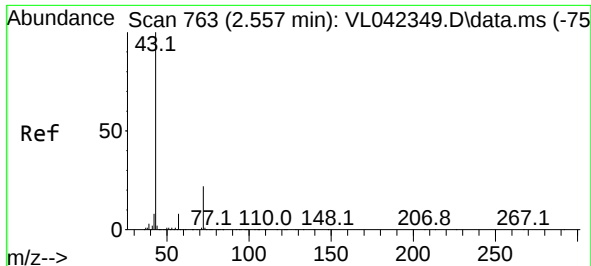
Tgt Ion: 97 Resp: 809
 Ion Ratio Lower Upper
 97 100
 99 103.0 51.0 76.4#
 61 78.7 38.8 58.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 114 Resp: 349264
 Ion Ratio Lower Upper
 114 100
 63 26.0 21.8 32.6
 88 19.0 15.5 23.3

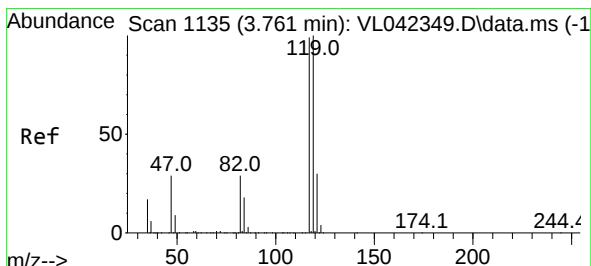
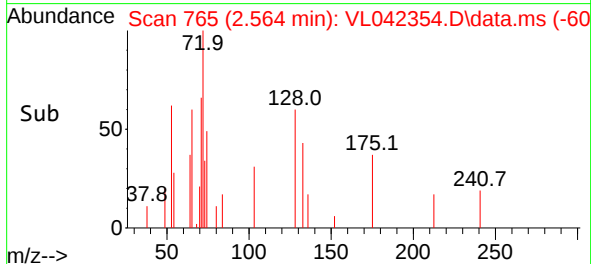
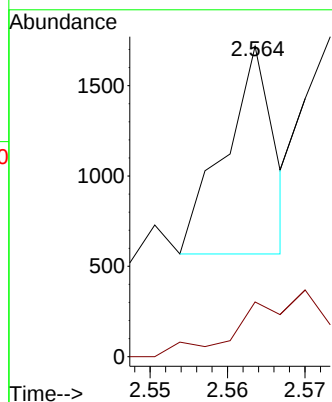
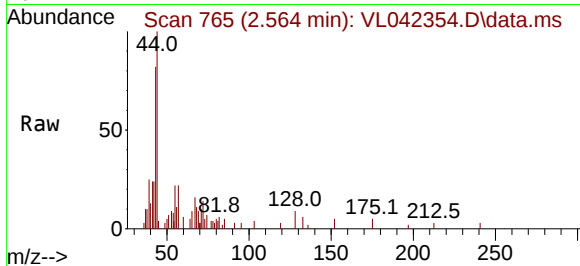




#34
2-Butanone
Concen: 0.018 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

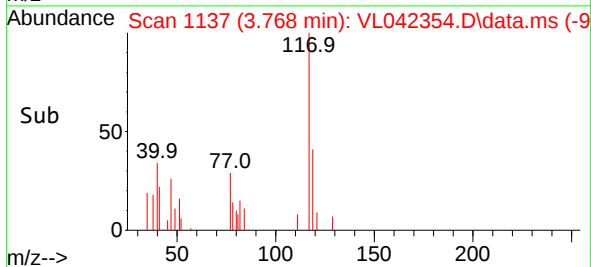
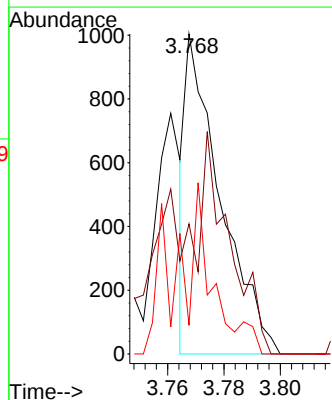
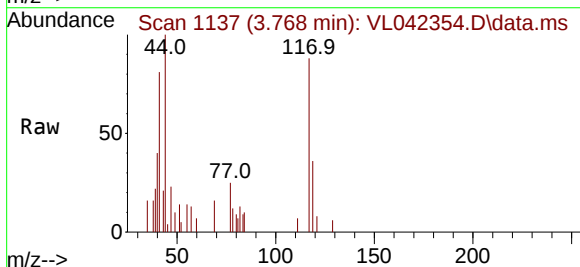
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

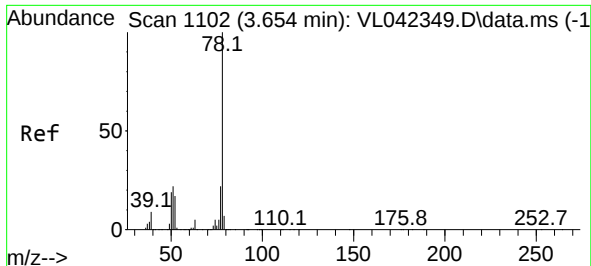
Tgt Ion: 43 Resp: 510
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#35
Carbon Tetrachloride
Concen: 0.027 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 117 Resp: 862
Ion Ratio Lower Upper
117 100
119 40.6 80.5 120.7#
121 9.0 24.2 36.2#





#36

Benzene

Concen: 0.043 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

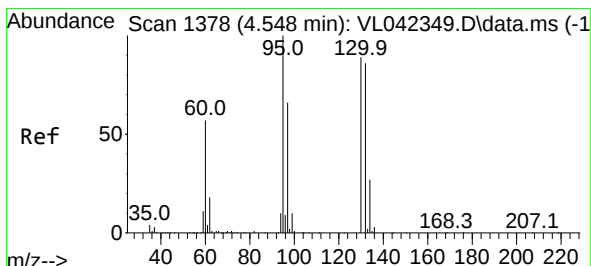
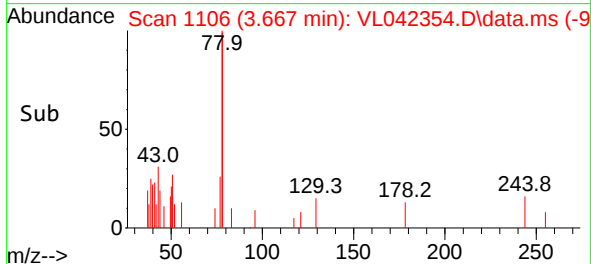
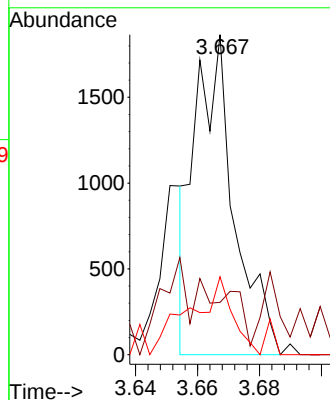
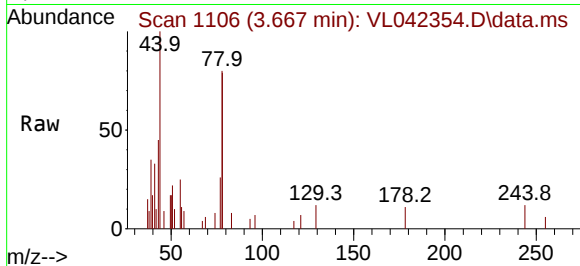
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 78	Resp: 1629
Ion Ratio	Lower Upper
78 100	
77 4.6	17.4 26.0#
50 25.2	15.5 23.3#



#38

Trichloroethene

Concen: 0.016 ppbv

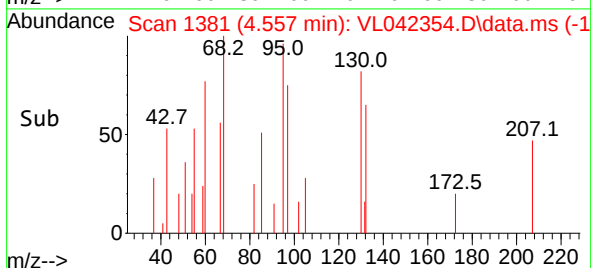
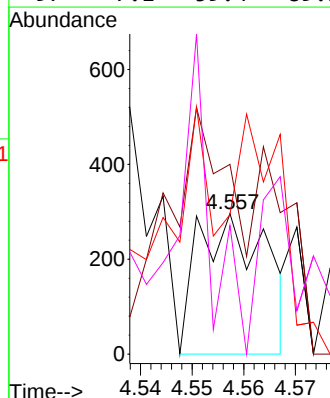
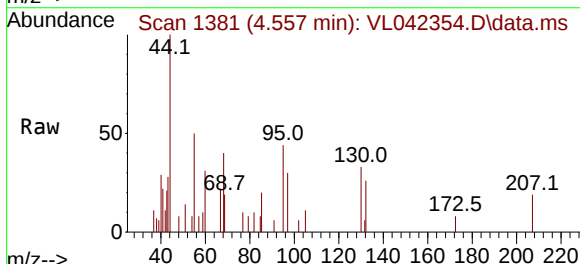
RT: 4.557 min Scan# 1381

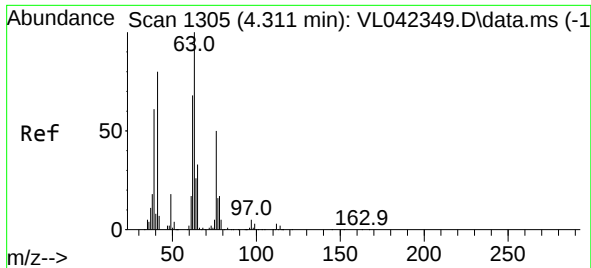
Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion: 130	Resp: 271
Ion Ratio	Lower Upper
130 100	
95 44.6	89.8 134.6#
132 19.6	77.7 116.5#
97 7.1	59.4 89.2#





#39

1,2-Dichloropropane

Concen: 6.465 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

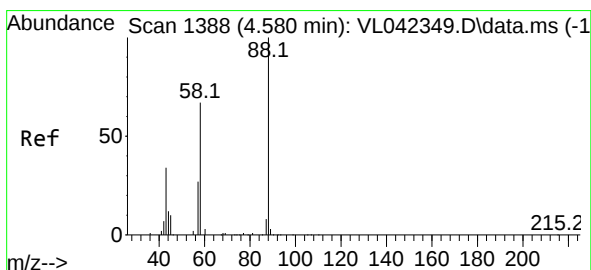
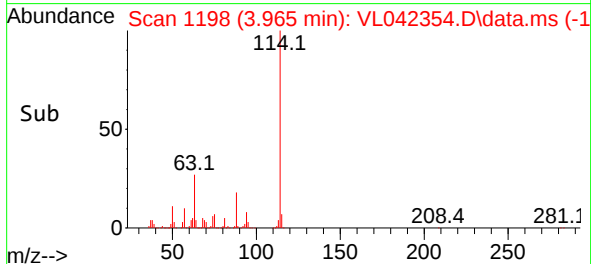
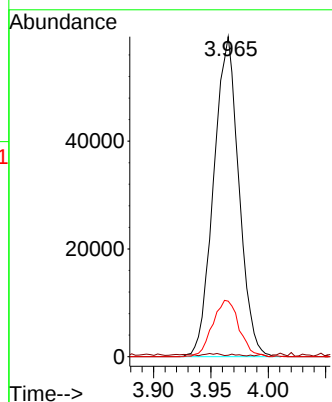
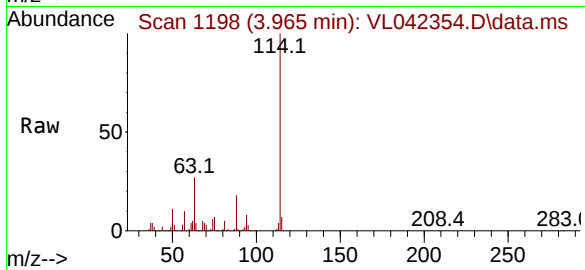
Tgt Ion: 63 Resp: 90827

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 17.4 54.3 81.5#



#40

1,4-Dioxane

Concen: 0.018 ppbv

RT: 4.625 min Scan# 1402

Delta R.T. 0.045 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion: 88 Resp: 139

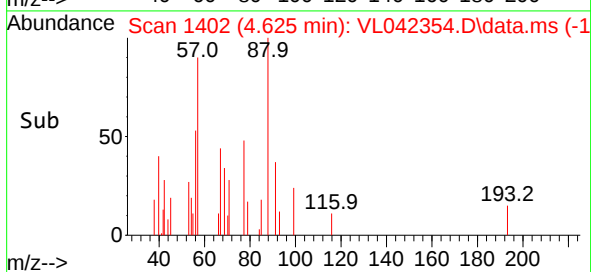
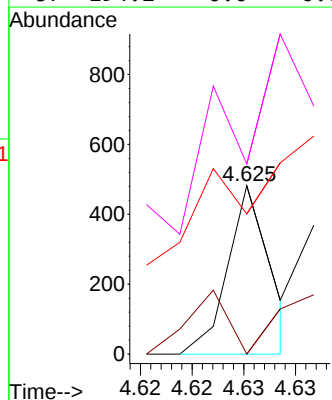
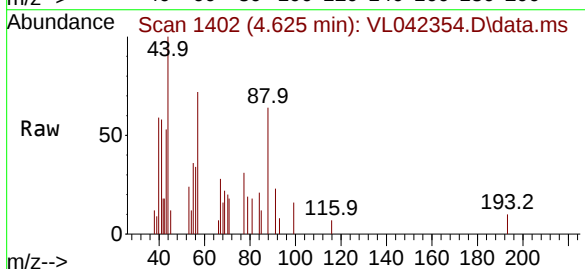
Ion Ratio Lower Upper

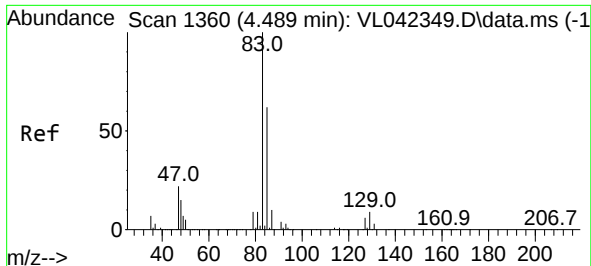
88 100

58 0.0 61.4 92.0#

43 251.8 23.2 34.8#

57 194.2 0.0 0.0#

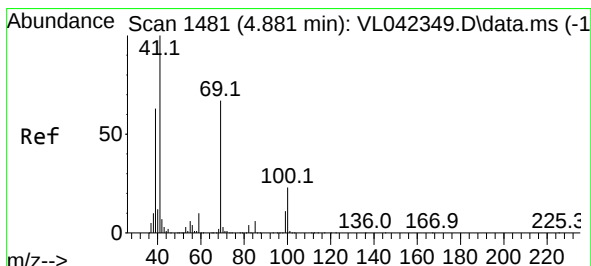
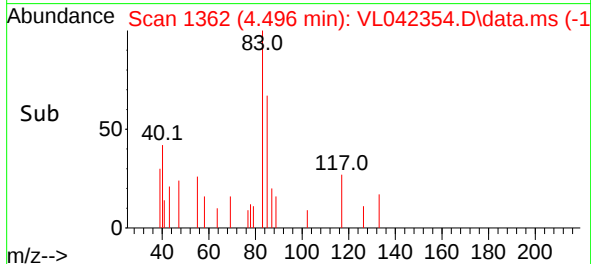
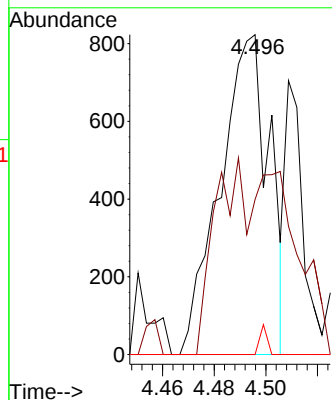
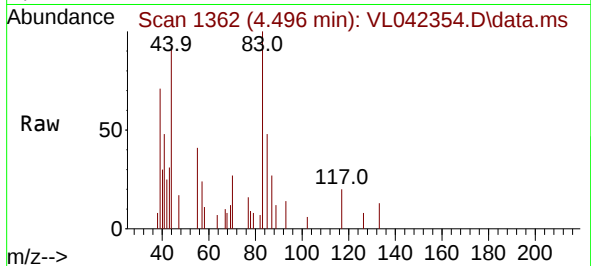




#42
Bromodichloromethane
Concen: 0.035 ppbv
RT: 4.496 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

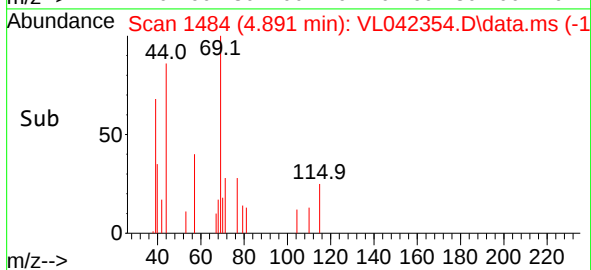
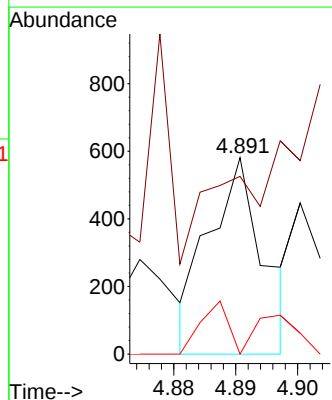
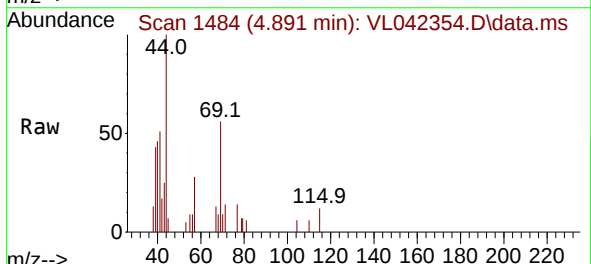
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

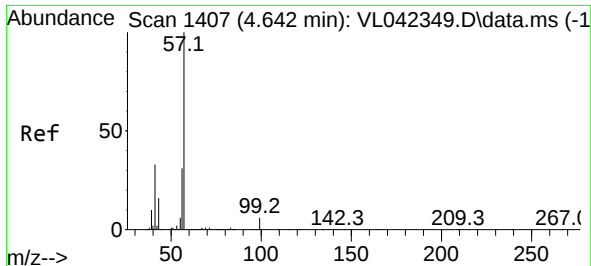
Tgt Ion: 83 Resp: 1093
Ion Ratio Lower Upper
83 100
85 48.5 49.7 74.5#
127 0.0 5.1 7.7#



#43
Methyl Methacrylate
Concen: 0.021 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 69 Resp: 354
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 40.7 28.2 42.2

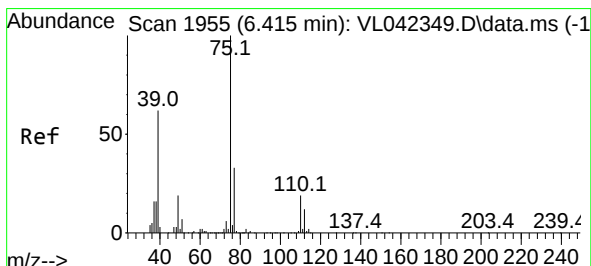
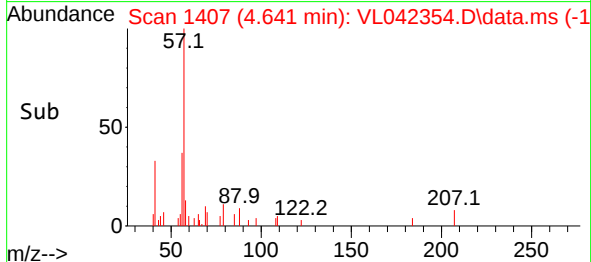
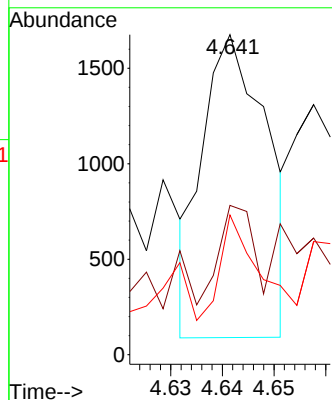
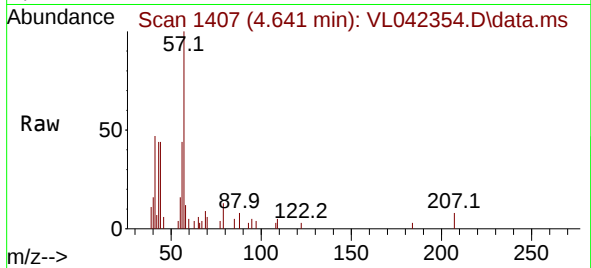




#44
2,2,4-Trimethylpentane
Concen: 0.021 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

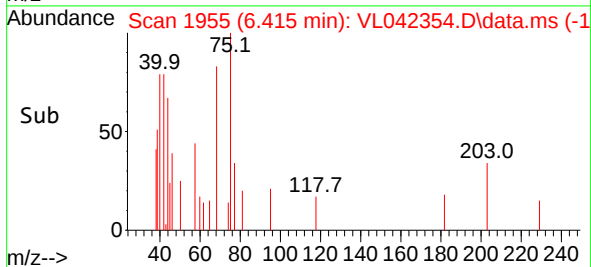
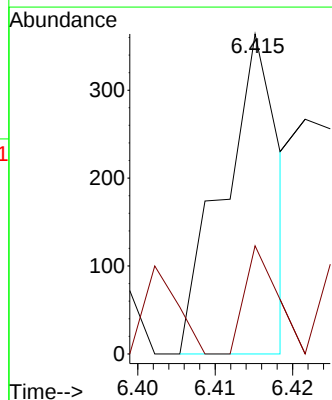
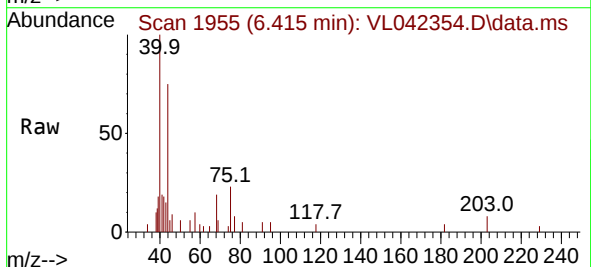
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

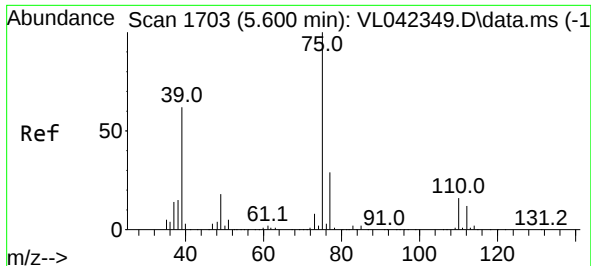
Tgt Ion: 57 Resp: 1377
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 139.0 25.7 38.5#



#45
t-1,3-Dichloropropene
Concen: 0.011 ppbv
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 75 Resp: 183
Ion Ratio Lower Upper
75 100
77 33.8 27.0 40.6

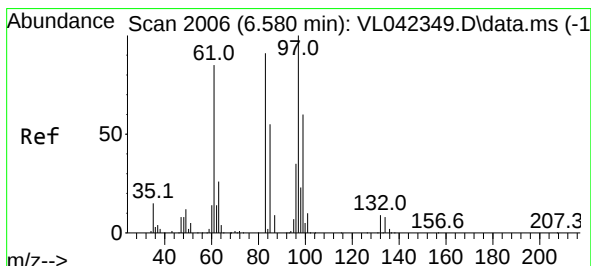
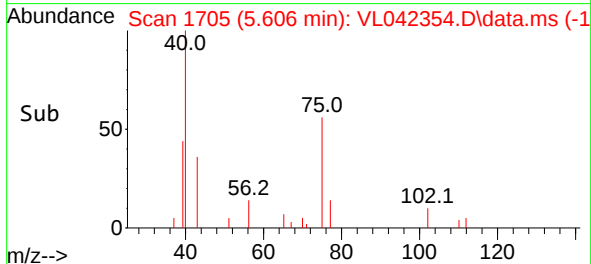
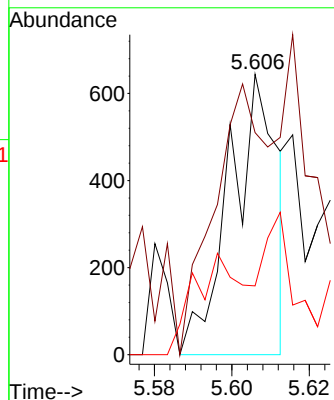
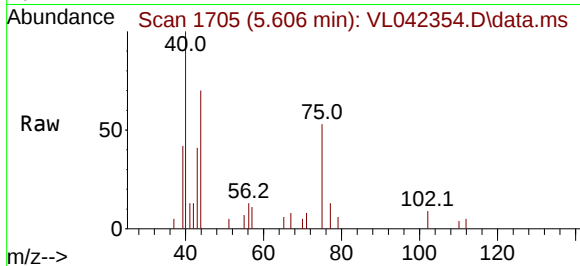




#46
 cis-1,3-Dichloropropene
 Concen: 0.026 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

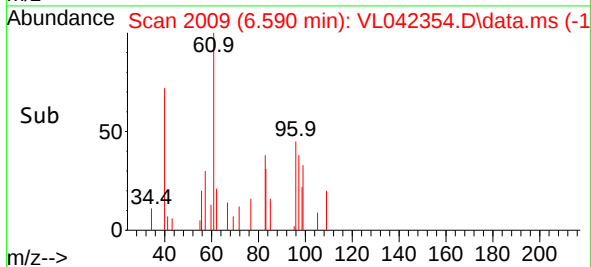
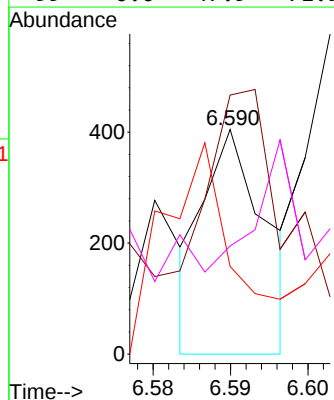
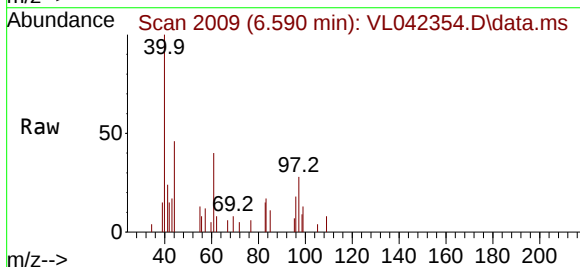
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

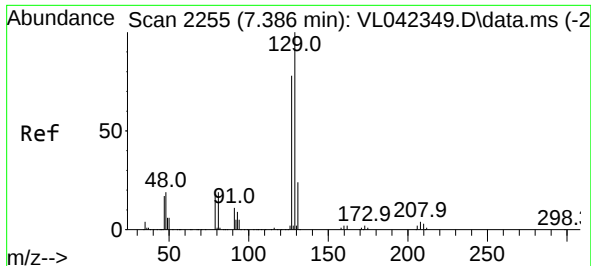
Tgt Ion: 75 Resp: 546
 Ion Ratio Lower Upper
 75 100
 39 1.7 50.0 75.0#
 77 13.7 23.0 34.6#



#47
 1,1,2-Trichloroethane
 Concen: 0.016 ppbv
 RT: 6.590 min Scan# 2009
 Delta R.T. 0.010 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 97 Resp: 225
 Ion Ratio Lower Upper
 97 100
 83 149.5 72.8 109.2#
 85 27.8 44.2 66.4#
 99 0.0 47.9 71.9#

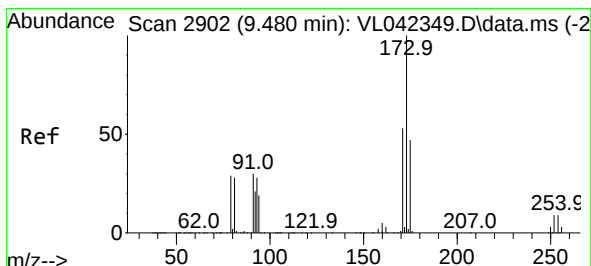
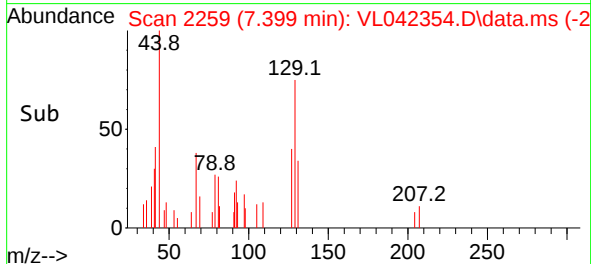
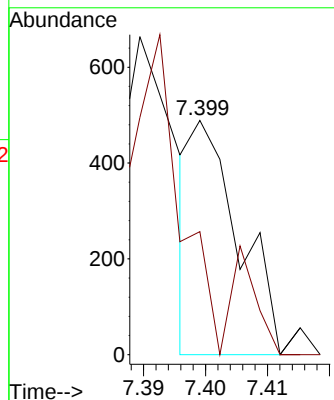
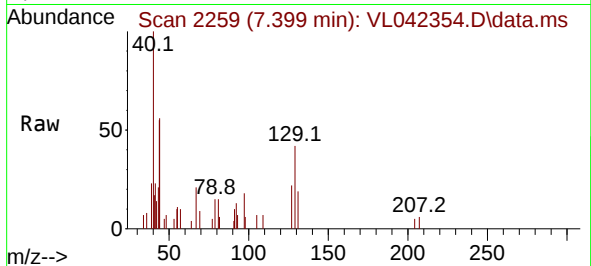




#48
 Dibromochloromethane
 Concen: 0.010 ppbv
 RT: 7.399 min Scan# 211
 Delta R.T. 0.013 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

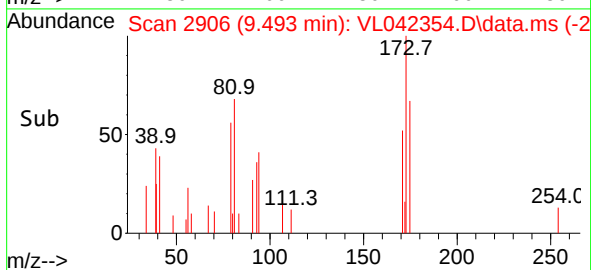
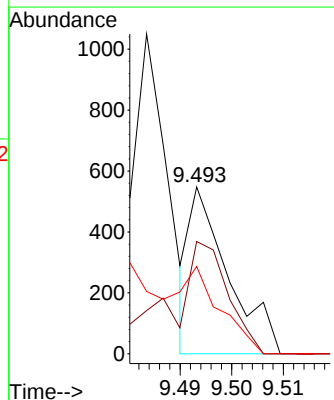
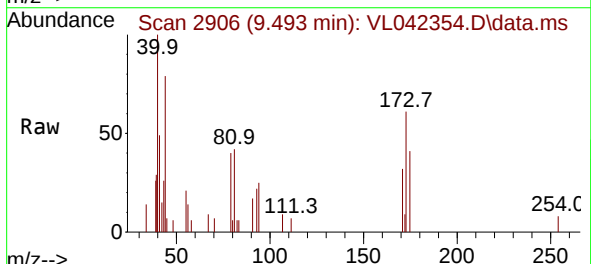
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

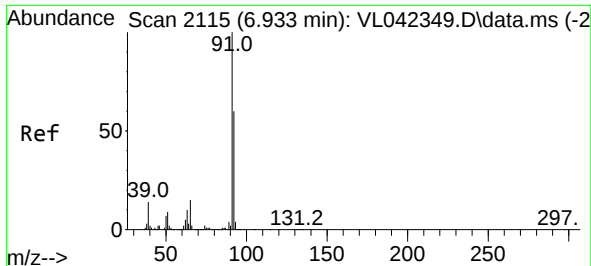
Tgt Ion:129 Resp: 258
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.3#



#49
 Bromoform
 Concen: 0.013 ppbv
 RT: 9.493 min Scan# 2906
 Delta R.T. 0.013 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion:173 Resp: 285
 Ion Ratio Lower Upper
 173 100
 175 145.3 38.2 57.2#
 171 11.9 40.9 61.3#





#53

Toluene

Concen: 0.010 ppbv

RT: 6.943 min Scan# 2115

Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

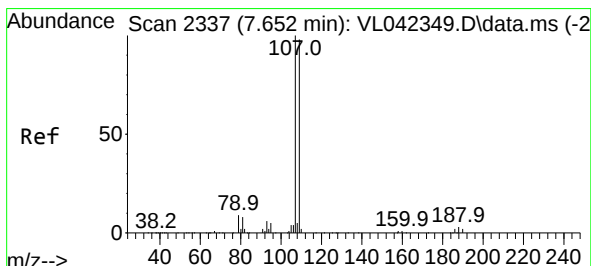
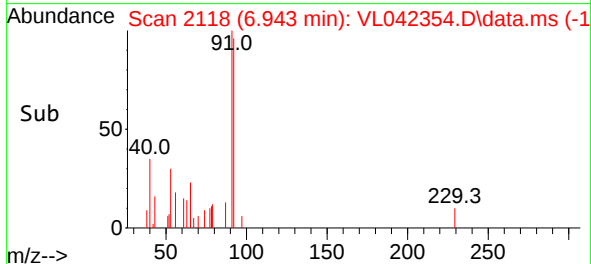
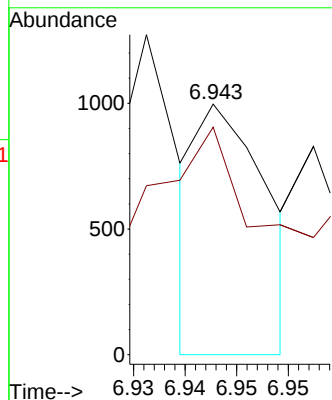
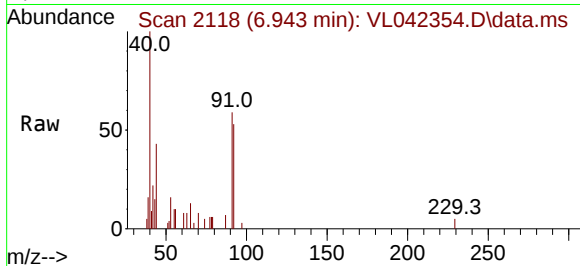
VSTDIC0.03

Tgt Ion: 91 Resp: 464

Ion Ratio Lower Upper

91 100

92 289.2 48.2 72.4#



#54

1,2-Dibromoethane

Concen: 0.021 ppbv

RT: 7.668 min Scan# 2342

Delta R.T. 0.016 min

Lab File: VL042354.D

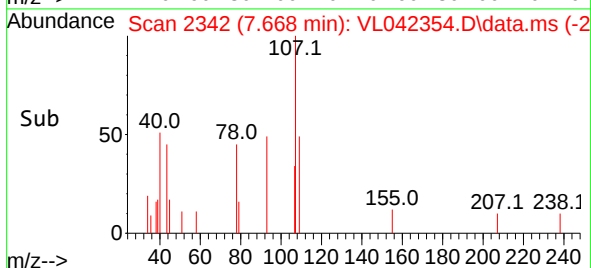
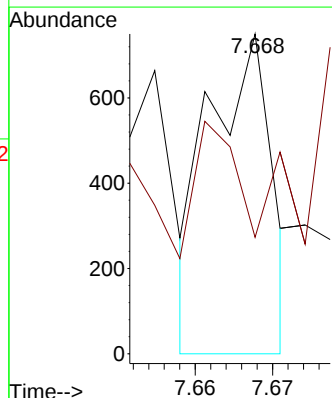
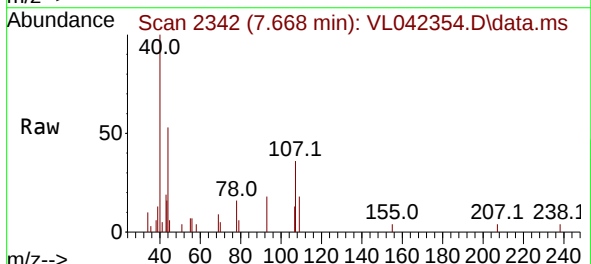
Acq: 17 Apr 2025 12:22

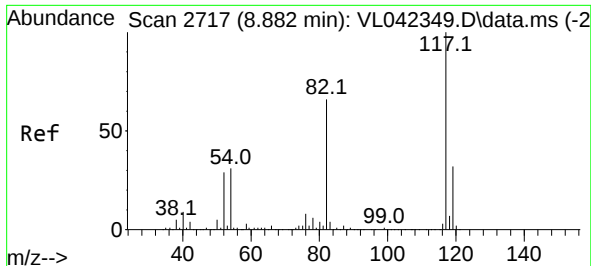
Tgt Ion: 107 Resp: 422

Ion Ratio Lower Upper

107 100

109 10.4 78.2 117.4#

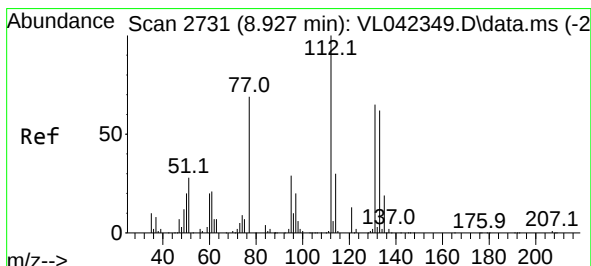
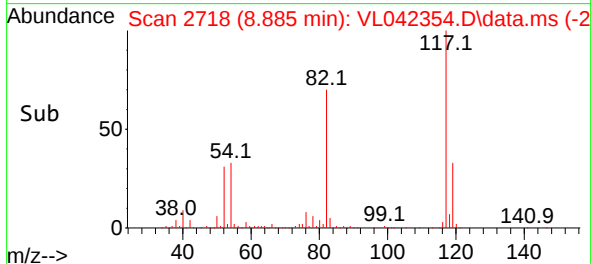
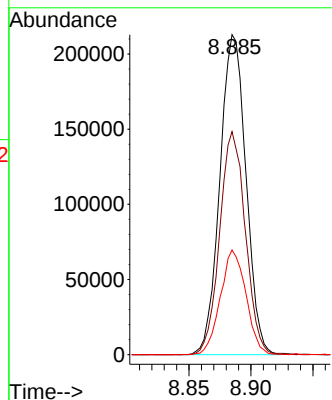
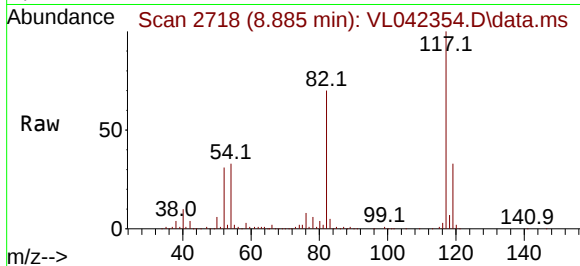




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2717
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

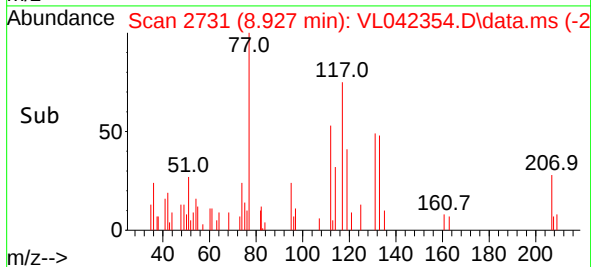
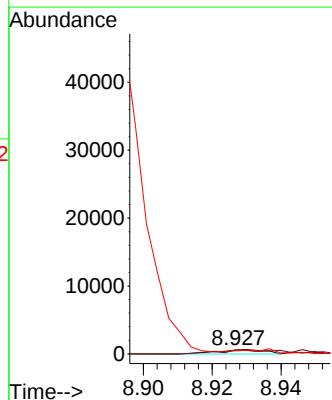
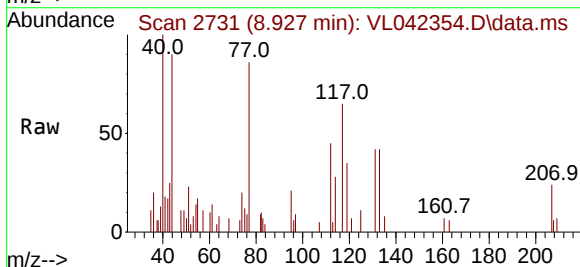
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

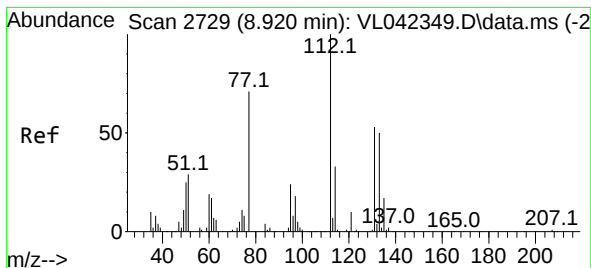
Tgt Ion:117 Resp: 312999
Ion Ratio Lower Upper
117 100
82 68.5 57.8 86.6
119 32.2 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.031 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:131 Resp: 589
Ion Ratio Lower Upper
131 100
133 185.9 78.3 117.5#
119 17165.0 48.7 73.1#





#57

Chlorobenzene

Concen: 0.017 ppbv

RT: 8.920 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

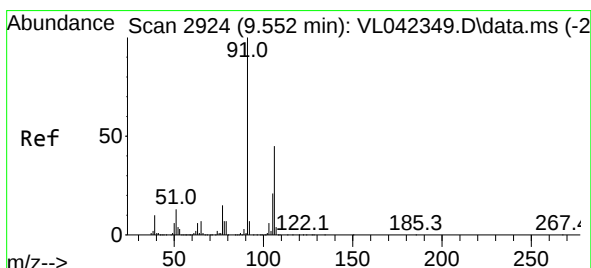
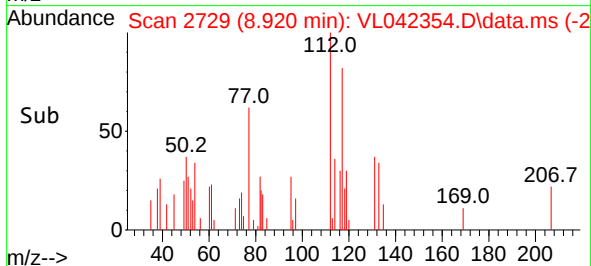
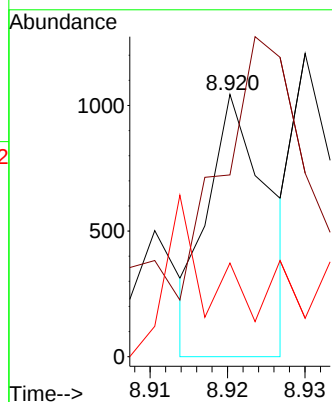
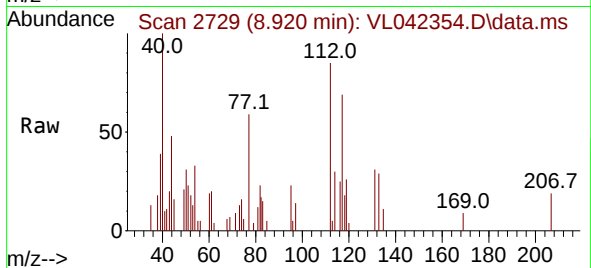
Tgt Ion:112 Resp: 567

Ion Ratio Lower Upper

112 100

77 62.5 57.8 86.6

114 0.0 29.3 35.9#



#59

m/p-Xylene

Concen: 0.033 ppbv

RT: 9.555 min Scan# 2925

Delta R.T. 0.003 min

Lab File: VL042354.D

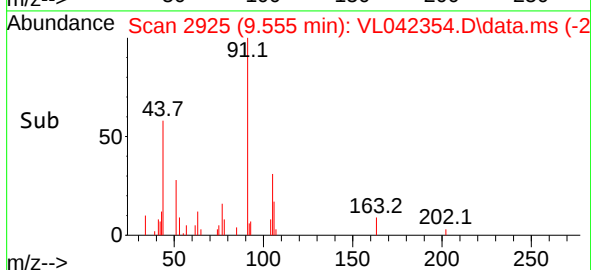
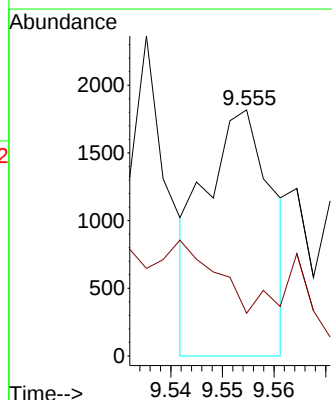
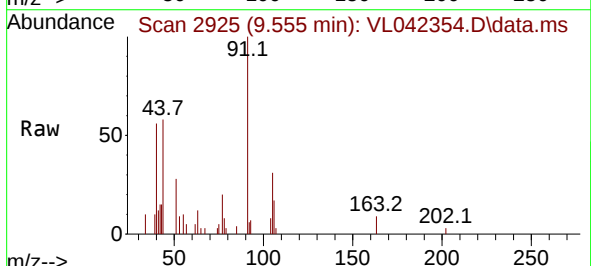
Acq: 17 Apr 2025 12:22

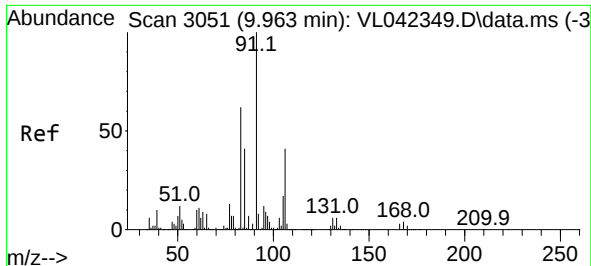
Tgt Ion: 91 Resp: 1648

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#

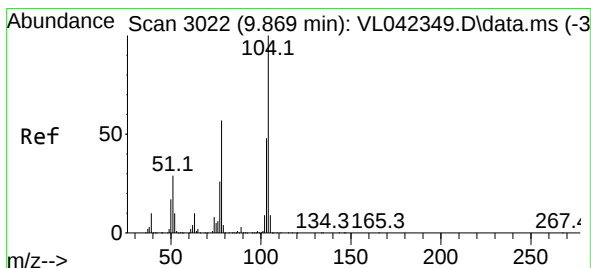
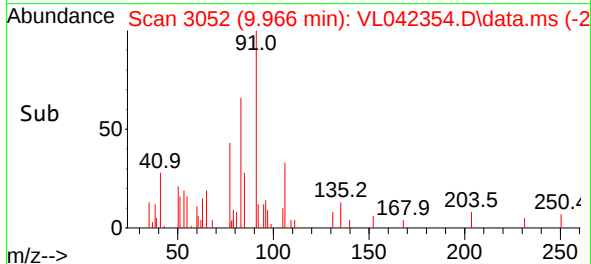
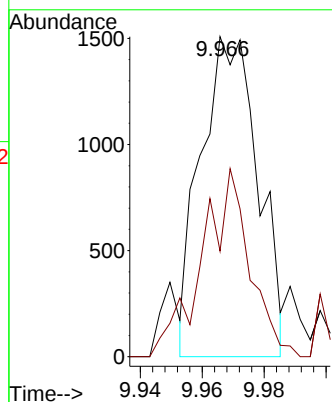
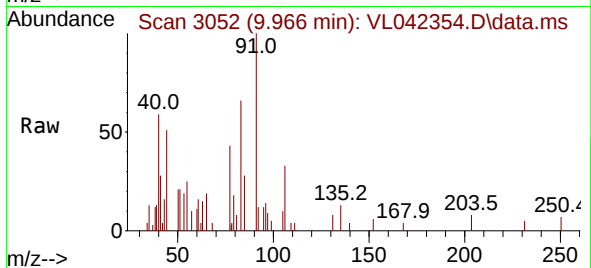




#60
o-Xylene
Concen: 0.039 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

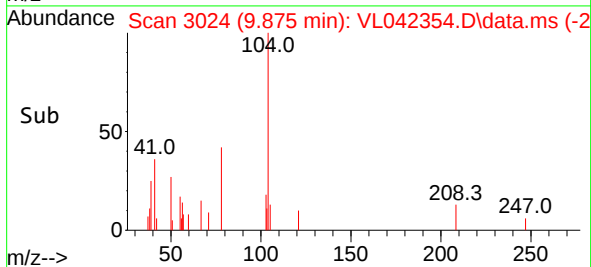
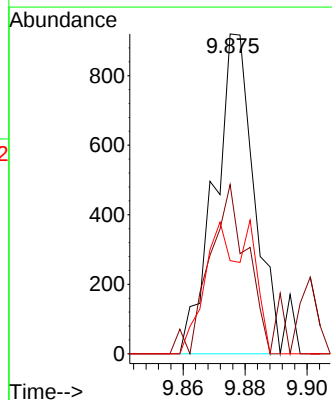
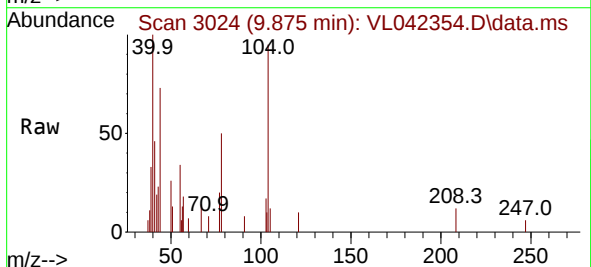
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

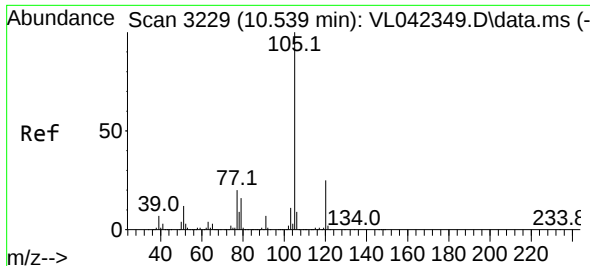
Tgt Ion: 91 Resp: 1938
Ion Ratio Lower Upper
91 100
106 52.6 21.1 63.4



#61
Styrene
Concen: 0.034 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 104 Resp: 813
Ion Ratio Lower Upper
104 100
78 64.9 44.6 66.8
103 47.1 37.4 56.0

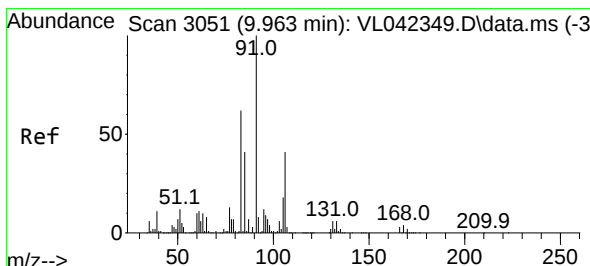
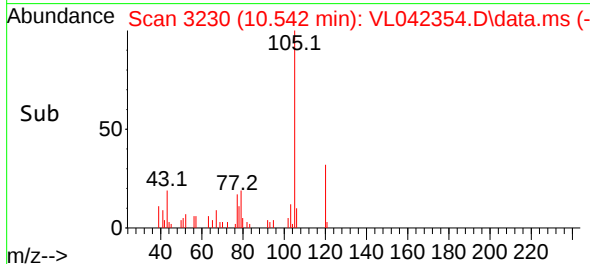
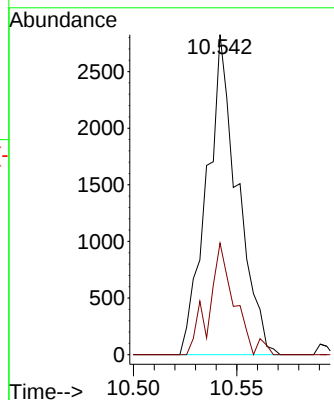
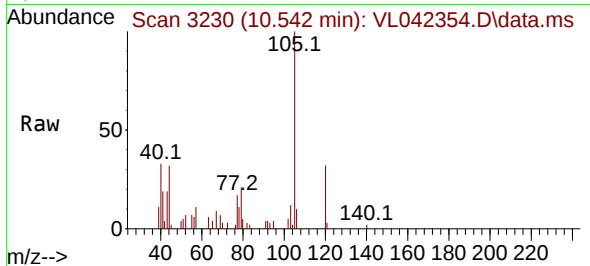




#62
Isopropylbenzene
Concen: 0.040 ppbv
RT: 10.542 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

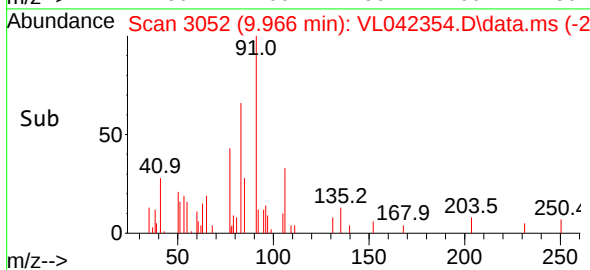
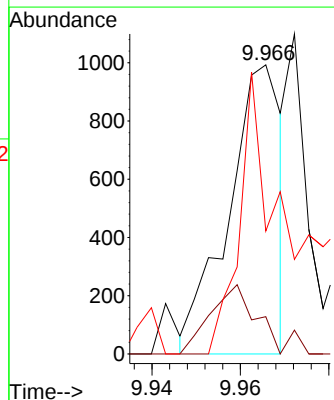
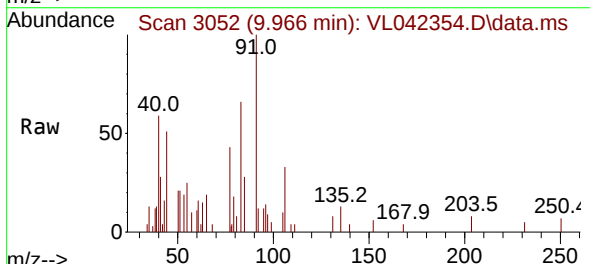
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

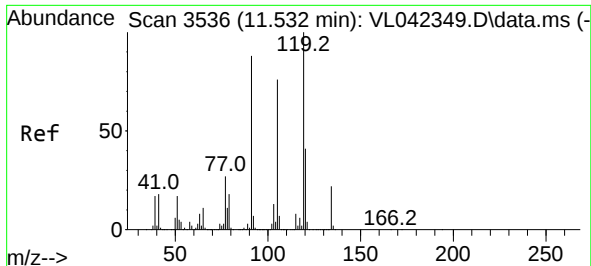
Tgt Ion: 105 Resp: 2934
Ion Ratio Lower Upper
105 100
120 28.8 19.8 29.8



#63
1,1,2,2-Tetrachloroethane
Concen: 0.025 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 83 Resp: 826
Ion Ratio Lower Upper
83 100
131 22.3 4.5 13.7#
85 98.2 32.4 97.0#

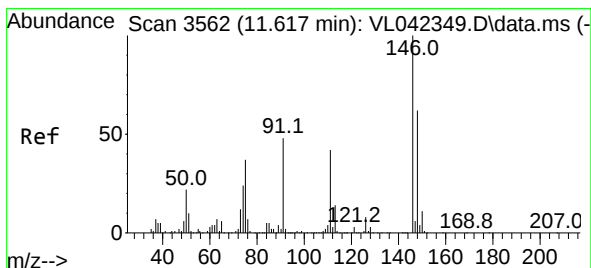
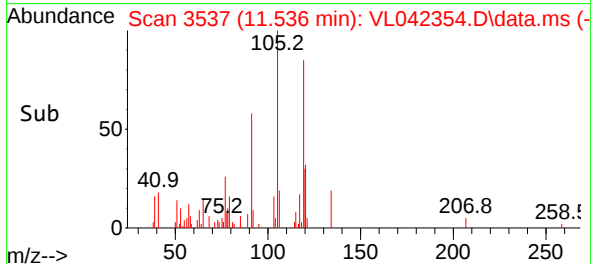
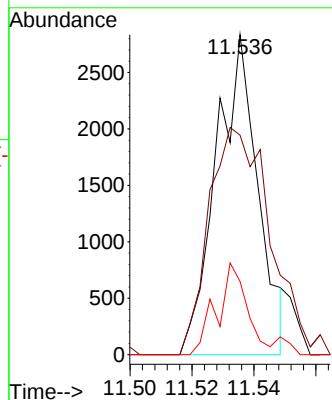
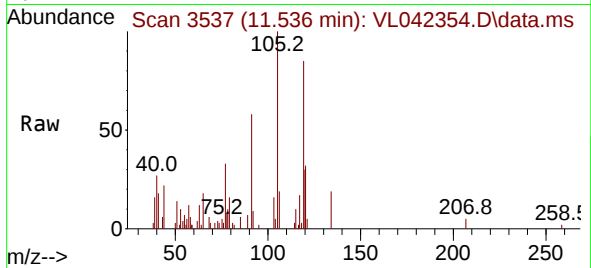




#65
tert-Butylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

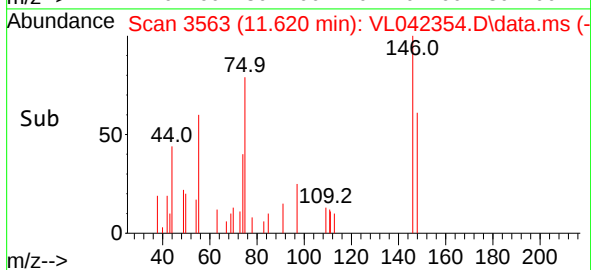
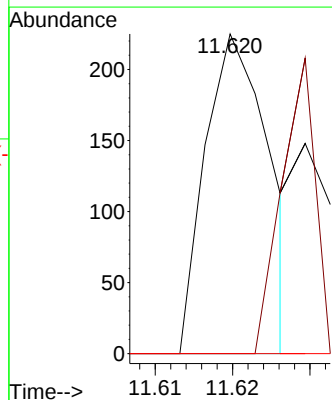
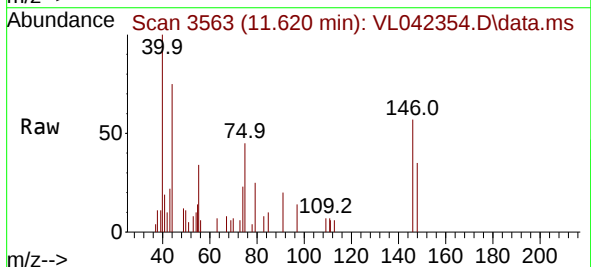
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

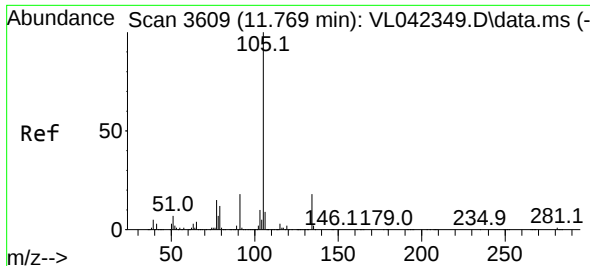
Tgt Ion:	119	Resp:	2656
Ion	Ratio	Lower	Upper
119	100		
91	104.4	74.6	111.8
134	22.5	18.8	28.2



#66
Benzyl Chloride
Concen: 0.017 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:	91	Resp:	130
Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.0	4.5	6.7#

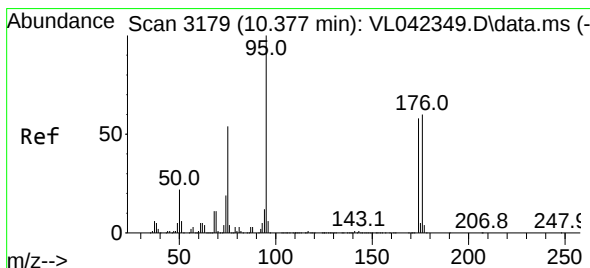
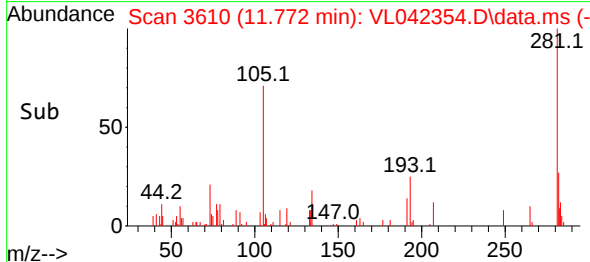
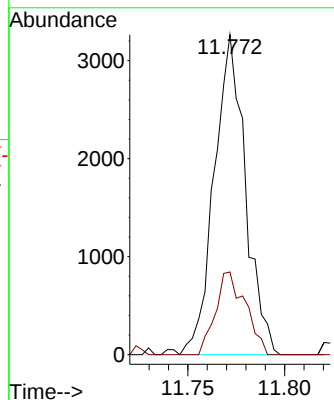
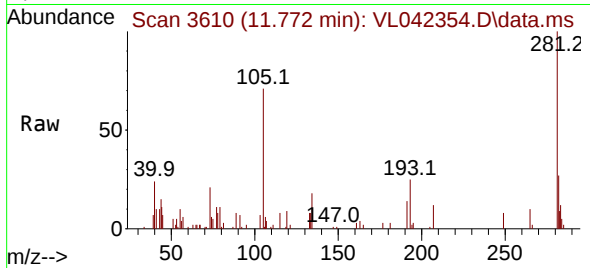




#67
 sec-Butylbenzene
 Concen: 0.039 ppbv
 RT: 11.772 min Scan# 3610
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

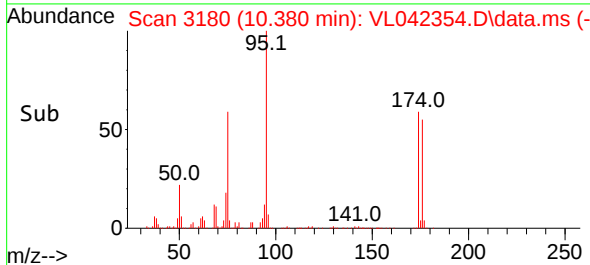
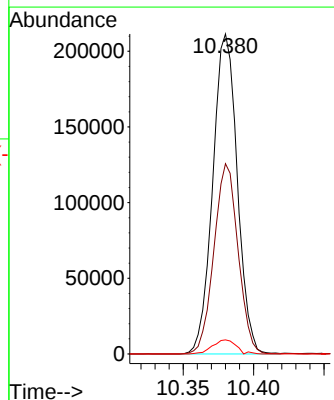
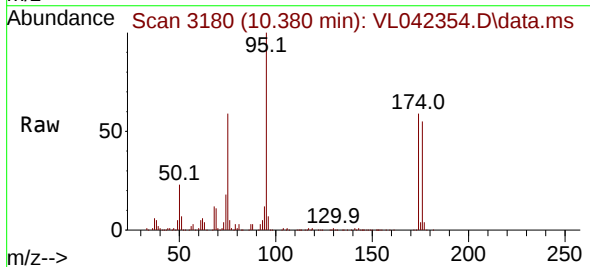
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

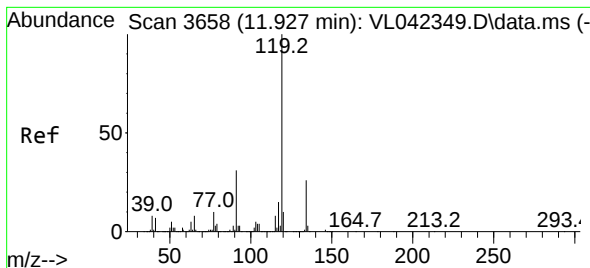
Tgt Ion:105 Resp: 3658
 Ion Ratio Lower Upper
 105 100
 134 24.8 14.6 21.8#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.962 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 95 Resp: 256230
 Ion Ratio Lower Upper
 95 100
 174 58.6 48.5 72.7
 175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.038 ppbv

RT: 11.930 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

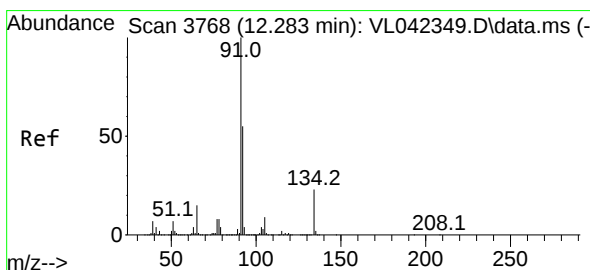
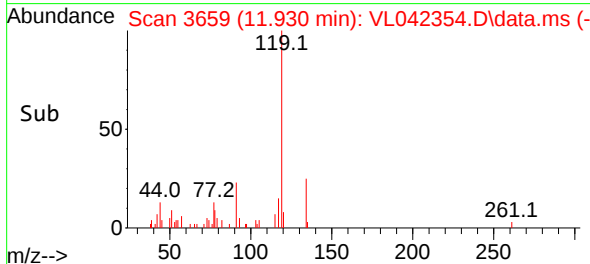
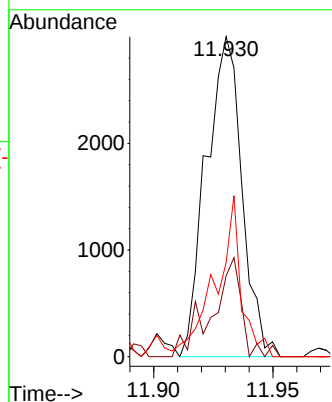
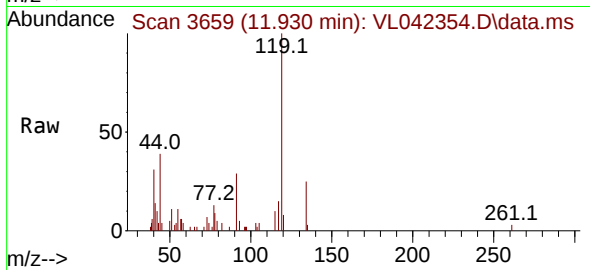
Tgt Ion:119 Resp: 3139

Ion Ratio Lower Upper

119 100

134 25.9 20.0 30.0

91 35.7 24.4 36.6



#70

n-Butylbenzene

Concen: 0.029 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.006 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

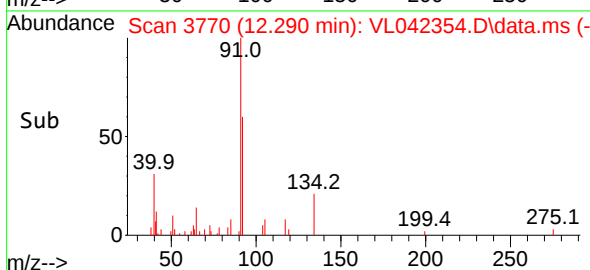
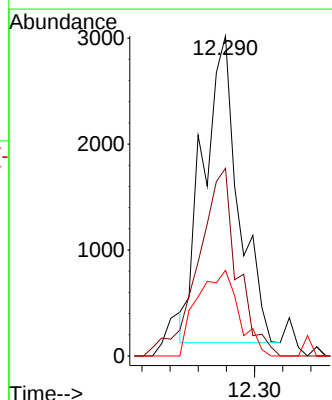
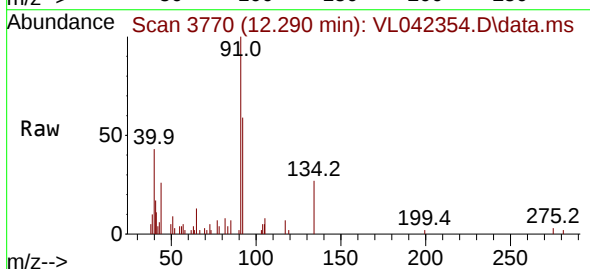
Tgt Ion: 91 Resp: 2516

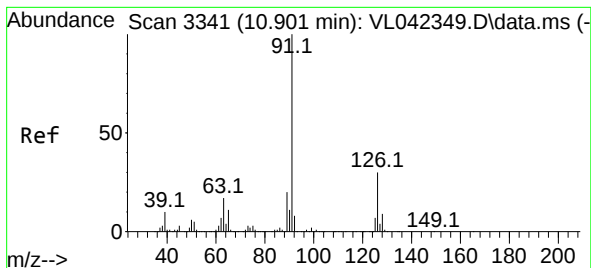
Ion Ratio Lower Upper

91 100

92 67.4 44.2 66.4#

134 34.4 18.2 27.4#

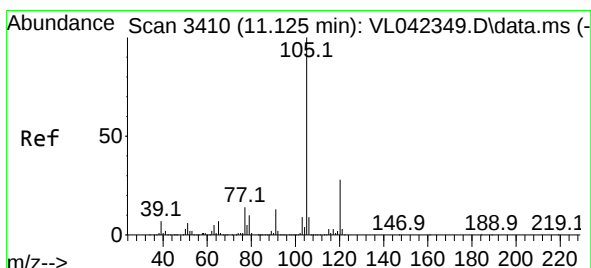
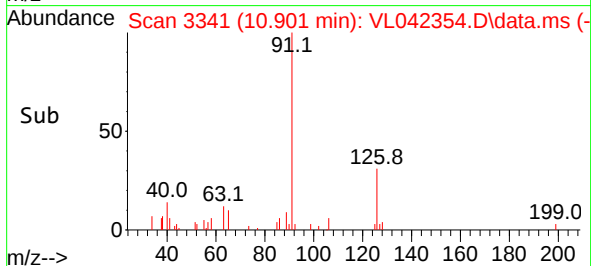
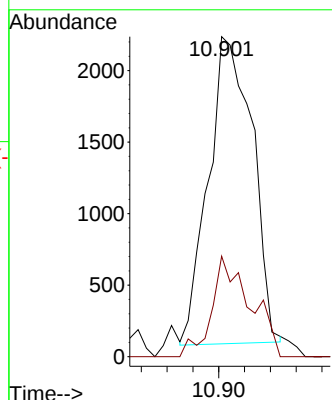
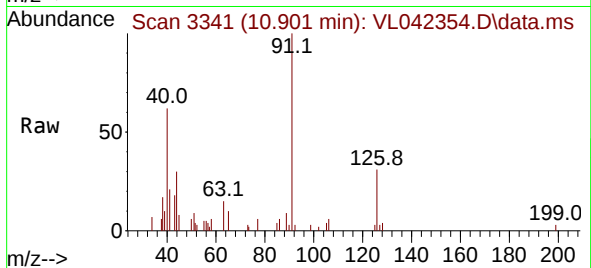




#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 10.901 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

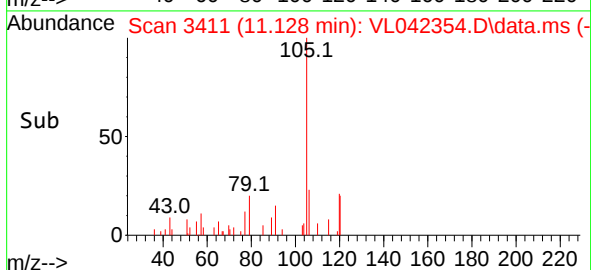
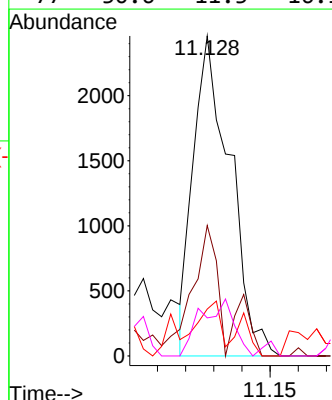
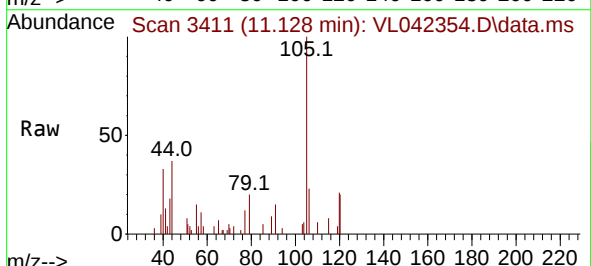
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

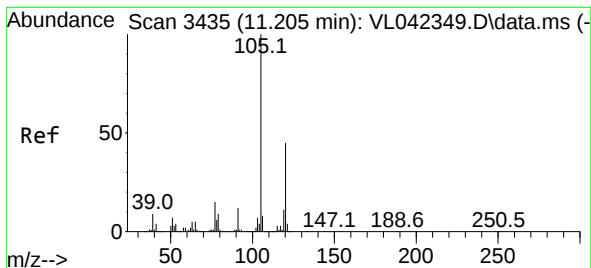
Tgt Ion: 91 Resp: 2537
Ion Ratio Lower Upper
91 100
126 28.7 11.4 45.4



#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 2221
Ion Ratio Lower Upper
105 100
120 47.5 23.2 34.8#
91 8.3 10.4 15.6#
77 30.6 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.046 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.006 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_1

ClientSampleId :

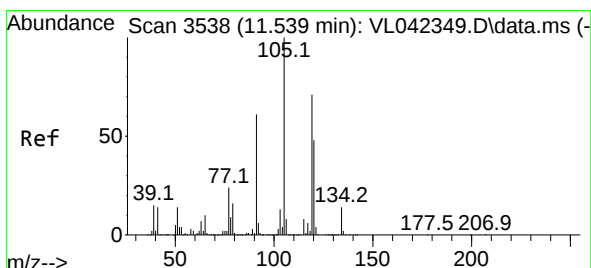
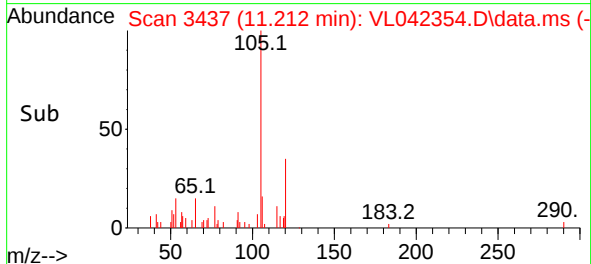
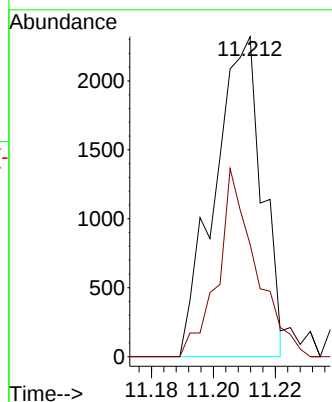
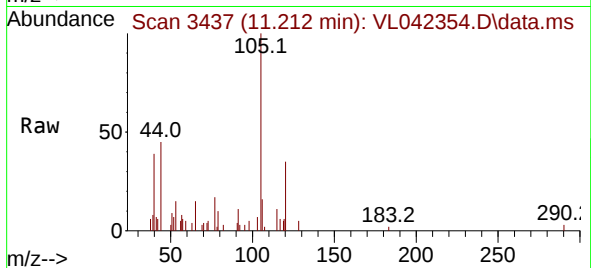
VSTDIC0.03

Tgt Ion:105 Resp: 2473

Ion Ratio Lower Upper

105 100

120 35.1 35.6 53.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.068 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 4320

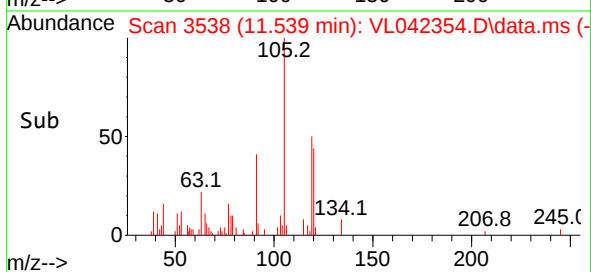
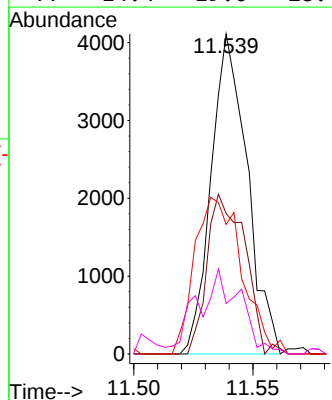
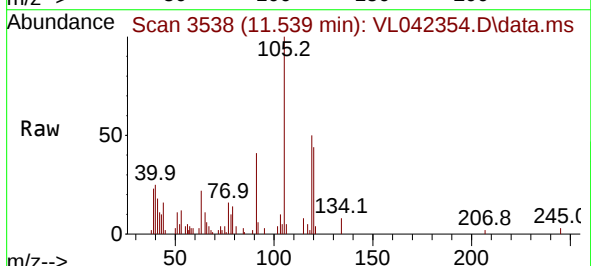
Ion Ratio Lower Upper

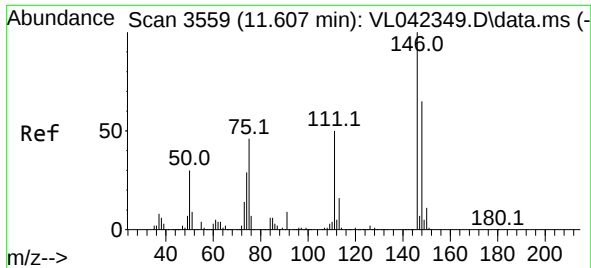
105 100

120 43.9 38.1 57.1

91 36.2 48.8 73.2#

77 14.4 19.0 28.4#

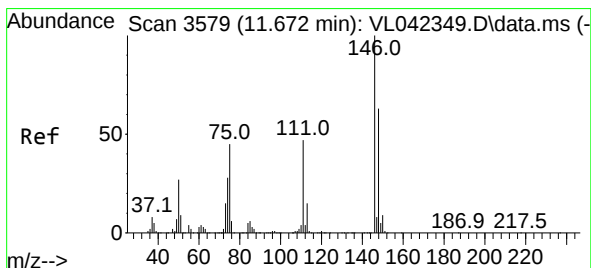
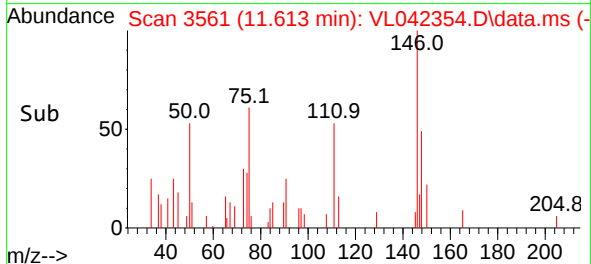
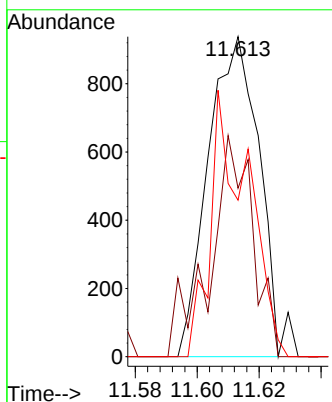
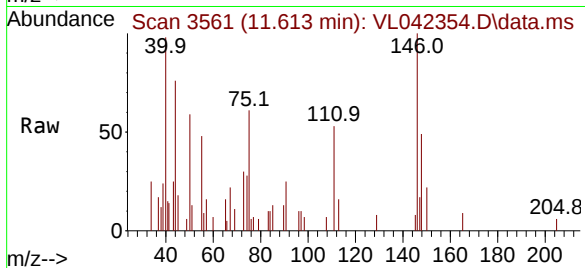




#75
1,3-Dichlorobenzene
Concen: 0.032 ppbv
RT: 11.613 min Scan# 3559
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

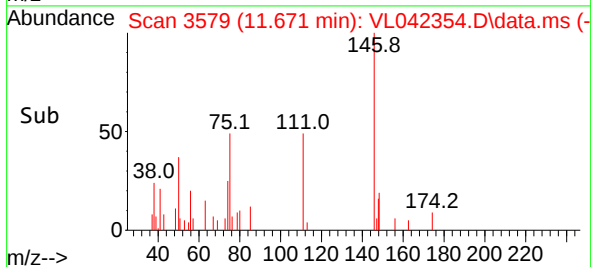
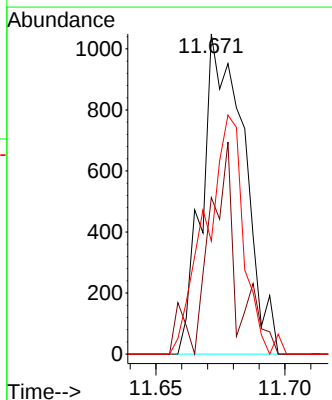
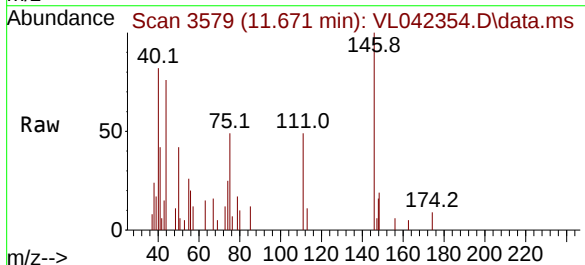
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

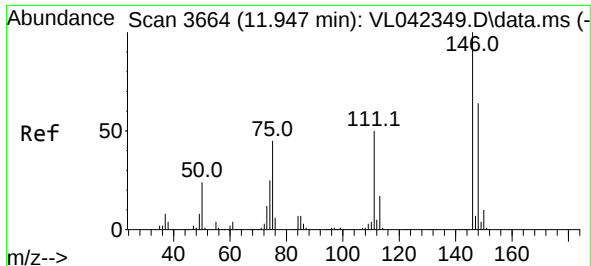
Tgt Ion:146 Resp: 1056
Ion Ratio Lower Upper
146 100
111 61.1 24.3 72.8
148 62.4 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:146 Resp: 1180
Ion Ratio Lower Upper
146 100
111 45.4 24.2 72.6
148 68.3 32.1 96.5

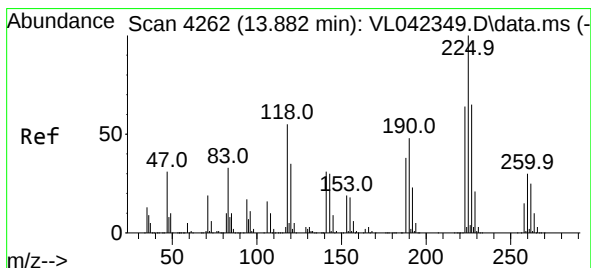
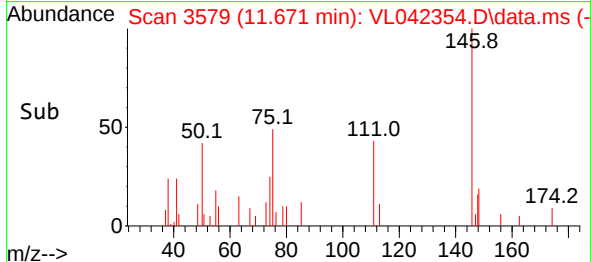
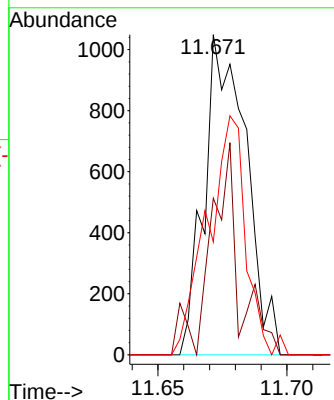
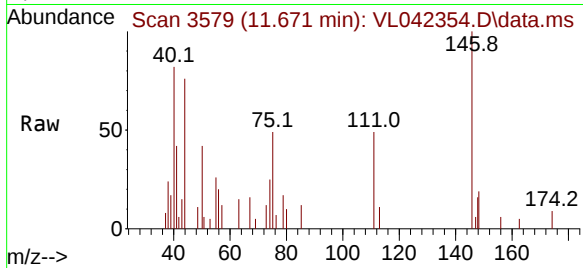




#77
1,2-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.275 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

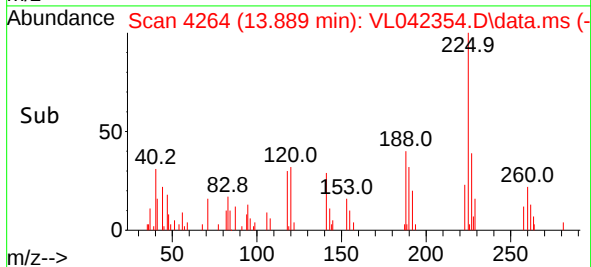
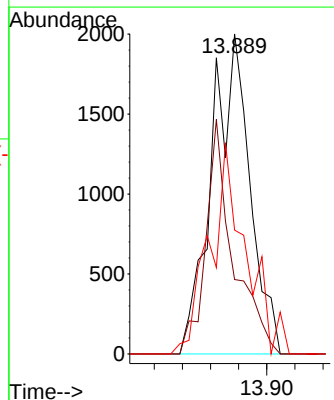
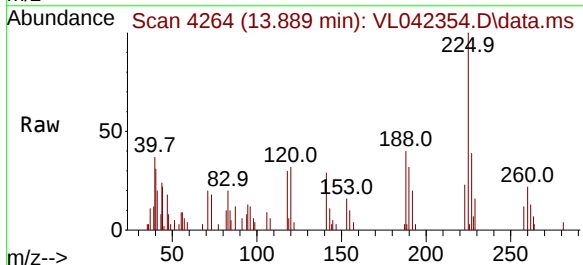
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

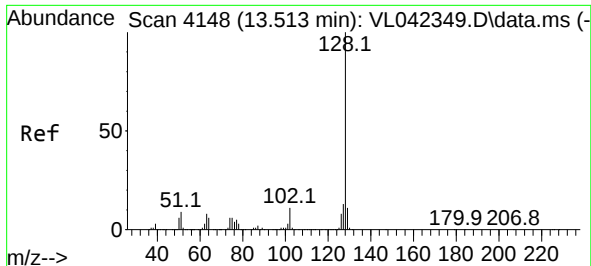
Tgt Ion:146 Resp: 1180
Ion Ratio Lower Upper
146 100
111 45.4 25.3 75.9
148 68.3 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 0.058 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:225 Resp: 1879
Ion Ratio Lower Upper
225 100
223 52.2 50.3 75.5
227 62.5 51.5 77.3

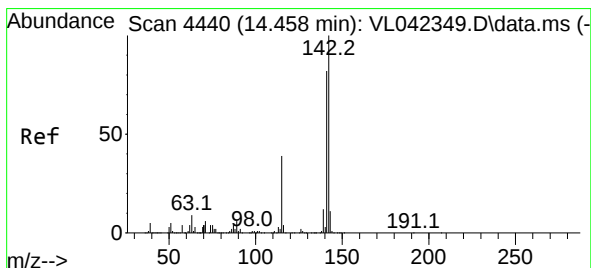
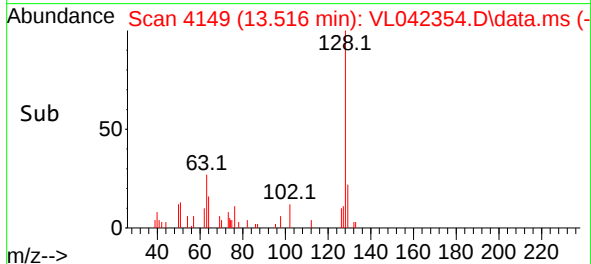
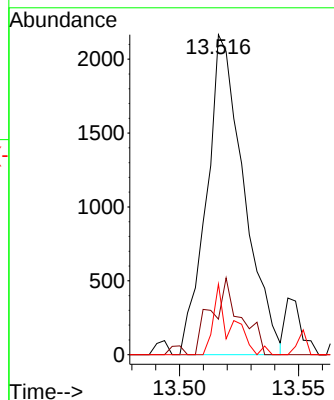
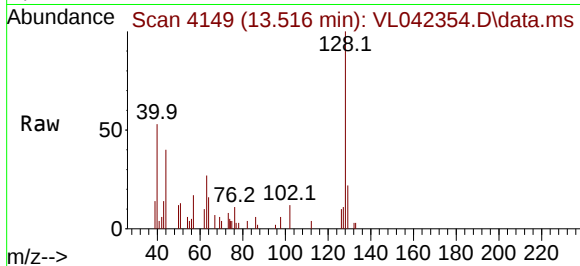




#79
Naphthalene
Concen: 0.031 ppbv
RT: 13.516 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

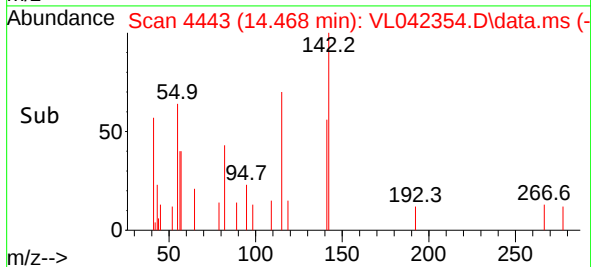
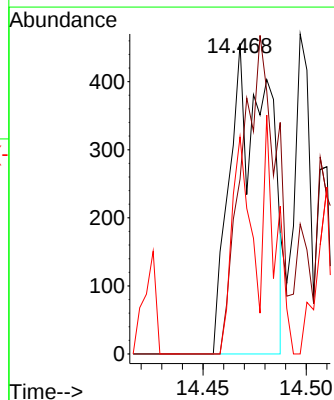
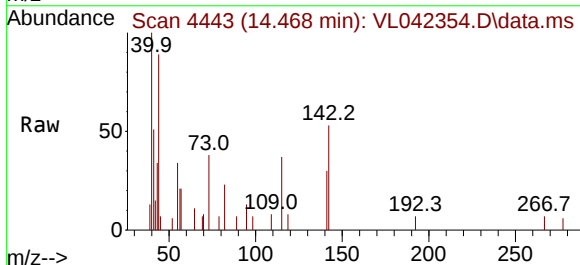
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

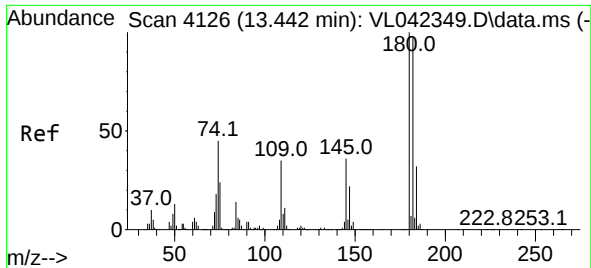
Tgt Ion:128 Resp: 2354
Ion Ratio Lower Upper
128 100
127 11.1 10.6 15.8
129 22.1 8.6 12.8#



#80
Naphthalene,2-methyl-
Concen: 0.014 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:142 Resp: 594
Ion Ratio Lower Upper
142 100
141 136.0 66.8 100.2#
115 59.1 33.4 50.2#





#81

1,2,4-Trichlorobenzene

Concen: 0.019 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042354.D

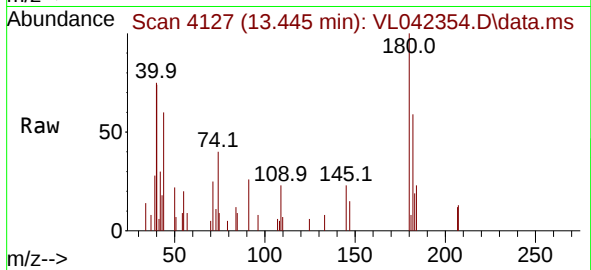
Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03



Tgt Ion:180 Resp: 614

Ion Ratio Lower Upper

180 100

182 116.4 76.8 115.2#

184 0.0 24.6 36.8#

