

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041323\
 Data File : VL040367.D
 Acq On : 13 Apr 2023 20:02
 Operator : SY/MD
 Sample : 02332-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-24-20230412

Quant Time: Apr 14 08:36:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Apr 13 14:37:02 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1030013	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2523693	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2321295	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	1893548	9.865	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.719	85	4546424	24.481	ppbv	93
3) Chlorodifluoromethane	2.661	51	370999	2.756	ppbv	99
4) Chloromethane	2.800	50	67963	0.799	ppbv	98
5) Vinyl Chloride	2.906	62	894	0.013	ppbv #	69
6) Bromomethane	3.112	94	108	0.005	ppbv #	4
7) Chloroethane	3.185	64	1117	0.042	ppbv #	86
8) Dichlorotetrafluoroethane	2.719	85	4546424	25.051	ppbv #	19
9) Propene	2.694	41	367458	6.911	ppbv #	72
10) Heptane	7.587	43	4745	0.039	ppbv	94
11) Trichlorofluoromethane	3.555	101	2663854	14.169	ppbv	100
13) Ethanol	3.227	45	2577186	580.588	ppbv	99
15) Acetone	3.456	43	5938402	40.705	ppbv	95
16) 1,3-Butadiene	2.957	39	386443	6.401	ppbv #	13
17) tert-Butyl alcohol	3.880	59	238720	1.782	ppbv	94
18) 1,1-Dichloroethene	3.925	96	135	0.002	ppbv #	1
19) Isopropyl Alcohol	3.571	45	260415	3.912	ppbv #	1
20) Methylene Chloride	3.928	84	47580	0.817	ppbv	93
21) Allyl Chloride	3.951	41	3103	0.037	ppbv #	1
22) trans-1,2-Dichloroethene	4.301	96	109	0.002	ppbv #	1
23) Vinyl Acetate	4.607	43	149859	4.035	ppbv #	46
24) 1,1-Dichloroethane	4.562	63	106	0.001	ppbv #	90
25) Ethyl Acetate	5.205	43	58658	0.239	ppbv #	93
26) Hexane	5.211	57	48978	0.473	ppbv #	50
27) Carbon Disulfide	4.118	76	5479	0.041	ppbv #	1
28) Methyl tert-Butyl Ether	4.581	73	466	0.004	ppbv #	52
29) Chloroform	5.269	83	10580	0.057	ppbv	89
30) Cyclohexane	6.603	84	467	0.006	ppbv #	1
31) cis-1,2-Dichloroethene	5.111	61	70	0.001	ppbv #	23
32) 1,1,1-Trichloroethane	5.999	97	1212	0.007	ppbv #	1
34) 2-Butanone	4.787	43	253645	1.864	ppbv	100
35) Carbon Tetrachloride	6.497	117	242	0.001	ppbv #	12
36) Benzene	6.375	78	6321	0.031	ppbv #	52
37) 1,2-Dichloroethane	5.803	62	550	0.004	ppbv #	84
38) Trichloroethene	7.314	130	59	0.001	ppbv #	1
39) 1,2-Dichloropropane	6.658	63	652590	8.055	ppbv #	25
40) 1,4-Dioxane	7.324	88	36	0.001	ppbv #	1
41) Tetrahydrofuran	5.549	42	2726	0.037	ppbv #	34
42) Bromodichloromethane	7.256	83	222	0.001	ppbv #	25
43) Methyl Methacrylate	7.475	69	203	0.003	ppbv #	1
44) 2,2,4-Trimethylpentane	7.336	57	12446	0.036	ppbv #	6
46) cis-1,3-Dichloropropene	8.098	75	72	0.001	ppbv #	25
47) 1,1,2-Trichloroethane	9.079	97	63	0.001	ppbv #	13
50) 4-Methyl-2-Pentanone	8.198	43	13913	0.067	ppbv #	57

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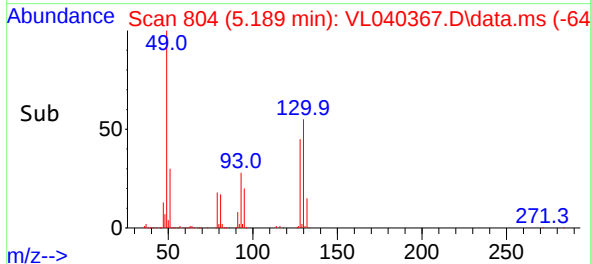
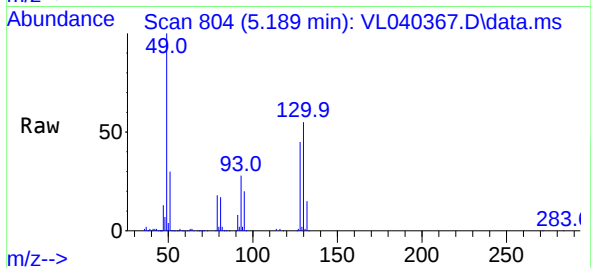
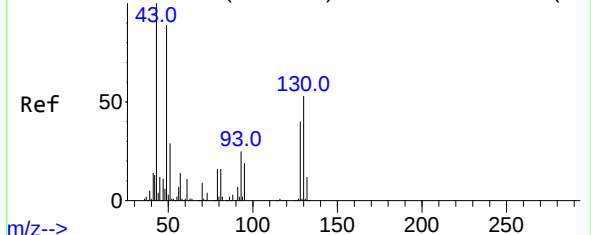
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
51) 2-Hexanone	9.561	43	582	0.004	ppbv	#	86
52) Tetrachloroethene	10.632	164	739	0.011	ppbv	#	12
53) Toluene	9.233	91	28975	0.133	ppbv		98
56) 1,1,1,2-Tetrachloroethane	11.150	131	273	0.003	ppbv	#	8
57) Chlorobenzene	11.529	112	1102	0.006	ppbv		94
58) Ethyl Benzene	12.108	91	19805	0.069	ppbv		94
59) m/p-Xylene	12.391	91	2327	0.009	ppbv	#	32
60) o-Xylene	13.073	91	2956	0.012	ppbv	#	1
61) Styrene	12.909	104	253	0.002	ppbv	#	23
62) Isopropylbenzene	14.047	105	693	0.002	ppbv	#	50
63) 1,1,2,2-Tetrachloroethane	13.066	83	69	0.001	ppbv	#	17
64) n-propylbenzene	14.703	120	205	0.002	ppbv		69
65) tert-Butylbenzene	16.108	119	829	0.003	ppbv	#	15
66) Benzyl Chloride	16.355	91	115	0.006	ppbv	#	69
67) sec-Butylbenzene	16.651	105	448	0.001	ppbv	#	60
69) p-Isopropyltoluene	17.027	119	3748	0.010	ppbv	#	46
70) n-Butylbenzene	17.905	91	779	0.002	ppbv	#	16
71) 2-Chlorotoluene	14.818	91	277	0.001	ppbv	#	45
72) 4-Ethyltoluene	15.208	105	2187	0.008	ppbv	#	1
73) 1,3,5-Trimethylbenzene	15.362	105	1581	0.006	ppbv		87
74) 1,2,4-Trimethylbenzene	16.130	105	10702	0.036	ppbv	#	64
75) 1,3-Dichlorobenzene	16.349	146	91826	0.571	ppbv		91
76) 1,4-Dichlorobenzene	16.349	146	91826	0.578	ppbv		91
77) 1,2-Dichlorobenzene	17.166	146	137	0.001	ppbv	#	1
78) Hexachloro-1,3-Butadiene	22.664	225	342	0.003	ppbv	#	36
79) Naphthalene	21.410	128	1381	0.007	ppbv	#	73
80) Naphthalene,2-methyl-	24.413	142	367	0.006	ppbv	#	7
81) 1,2,4-Trichlorobenzene	21.162	180	471	0.004	ppbv	#	12

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Apr 13 14:37:02 2023
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Abundance Scan 804 (5.189 min): VL040354.D\data.ms (-78)



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.189 min Scan# 80

Delta R.T. -0.000 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

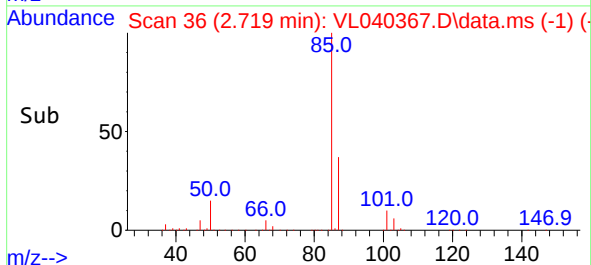
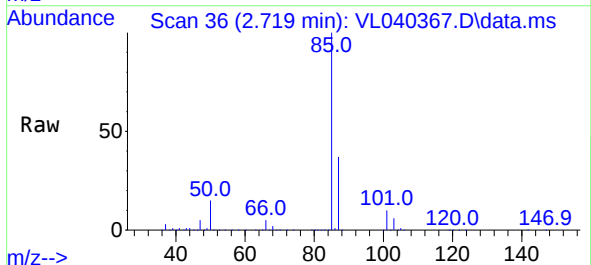
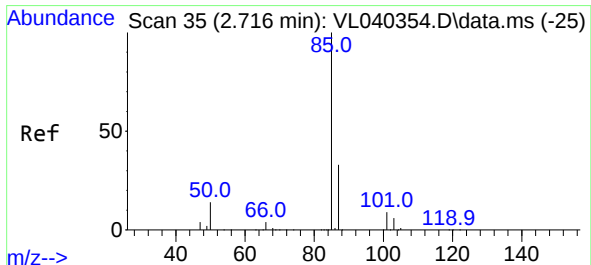
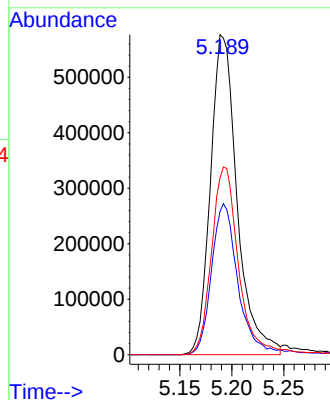
MSVOA_L

ClientSampleId :

SV-24-20230412

Tgt Ion: 49 Resp: 1030013

Ion	Ratio	Lower	Upper
49	100		
128	47.9	23.7	71.1
130	60.4	29.9	89.8



#2

Dichlorodifluoromethane

Concen: 24.481 ppbv

RT: 2.719 min Scan# 36

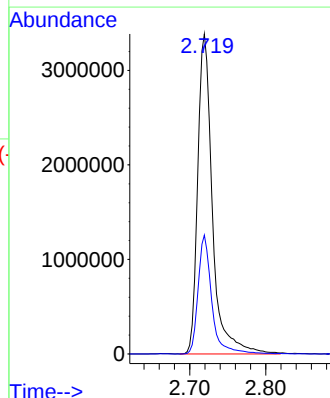
Delta R.T. 0.003 min

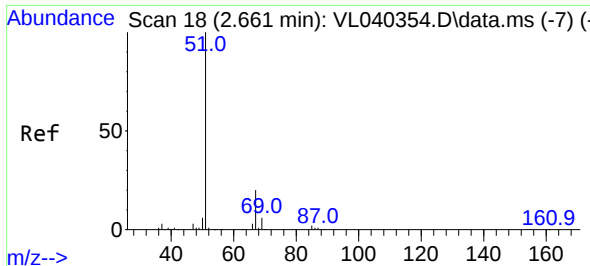
Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Tgt Ion: 85 Resp: 4546424

Ion	Ratio	Lower	Upper
85	100		
87	37.2	26.6	40.0

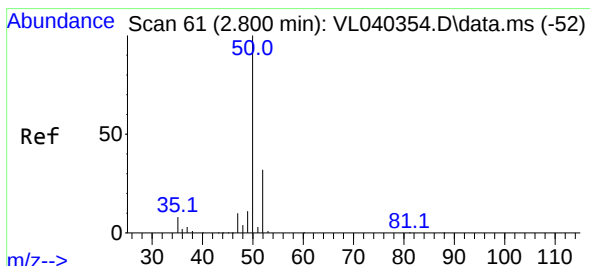
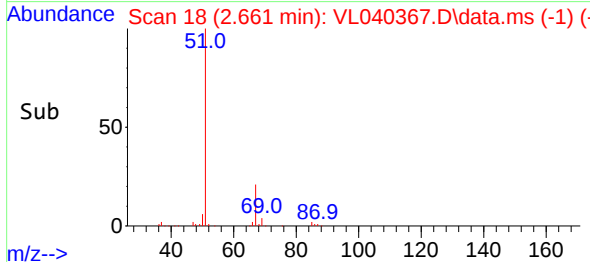
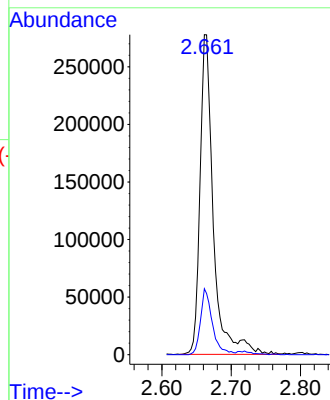
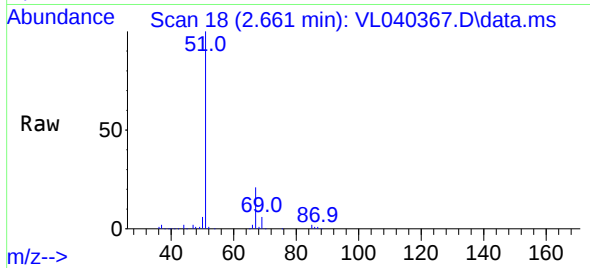




#3
Chlorodifluoromethane
Concen: 2.756 ppbv
RT: 2.661 min Scan# 18
Delta R.T. 0.000 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

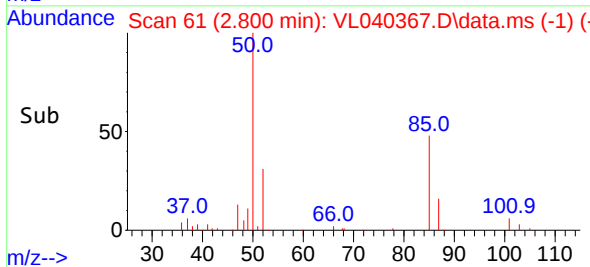
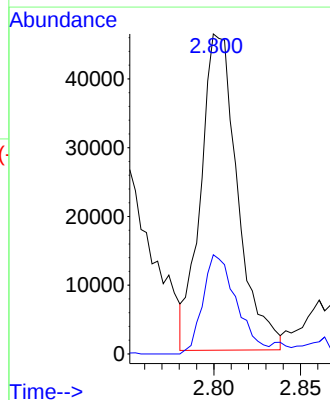
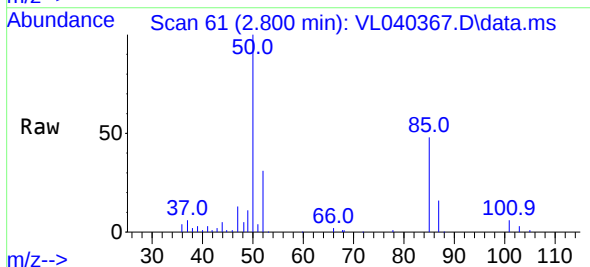
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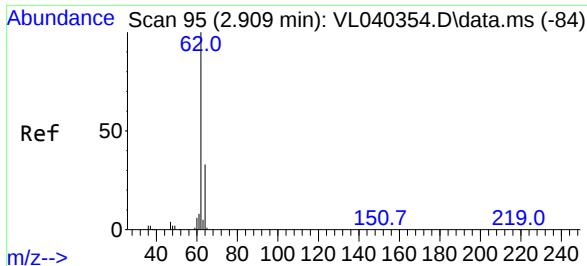
Tgt Ion: 51 Resp: 370999
Ion Ratio Lower Upper
51 100
67 19.7 15.5 23.3



#4
Chloromethane
Concen: 0.799 ppbv
RT: 2.800 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 50 Resp: 67963
Ion Ratio Lower Upper
50 100
52 32.9 25.3 37.9

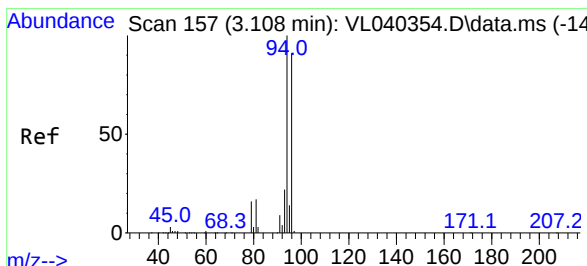
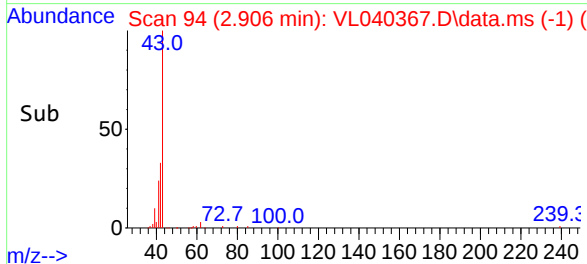
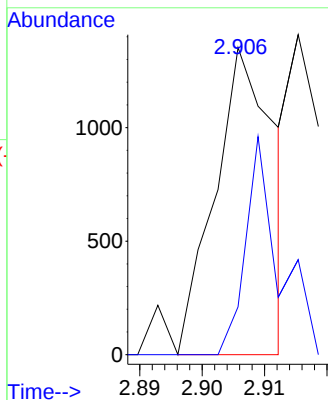
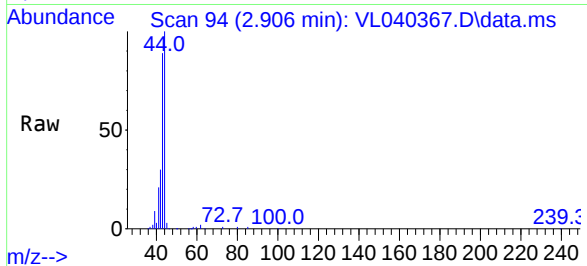




#5
 Vinyl Chloride
 Concen: 0.013 ppbv
 RT: 2.906 min Scan# 94
 Delta R.T. -0.003 min
 Lab File: VL040367.D
 Acq: 13 Apr 2023 20:02

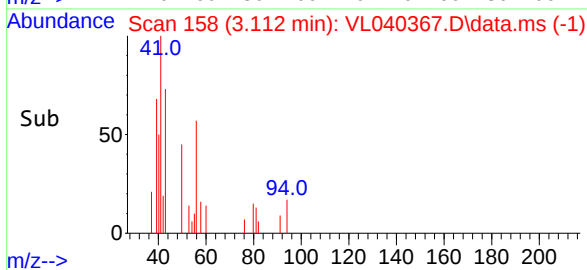
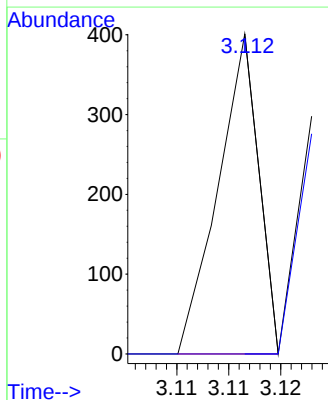
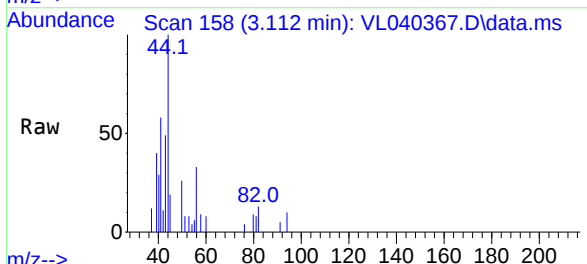
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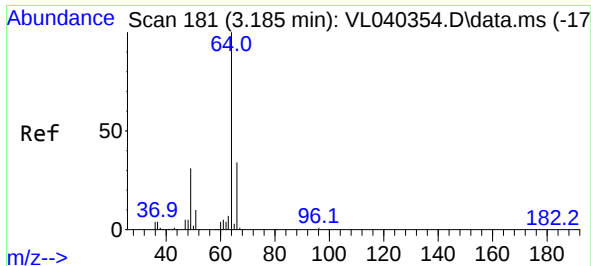
Tgt Ion: 62 Resp: 894
 Ion Ratio Lower Upper
 62 100
 64 15.6 26.3 39.5#



#6
 Bromomethane
 Concen: 0.005 ppbv
 RT: 3.112 min Scan# 158
 Delta R.T. 0.003 min
 Lab File: VL040367.D
 Acq: 13 Apr 2023 20:02

Tgt Ion: 94 Resp: 108
 Ion Ratio Lower Upper
 94 100
 96 0.0 72.6 108.8#

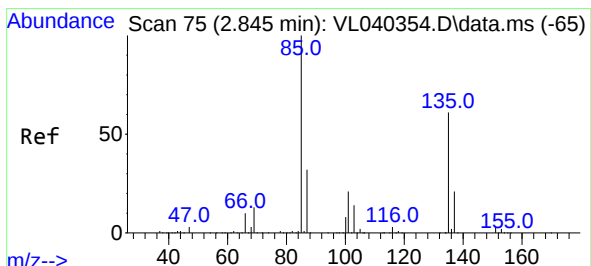
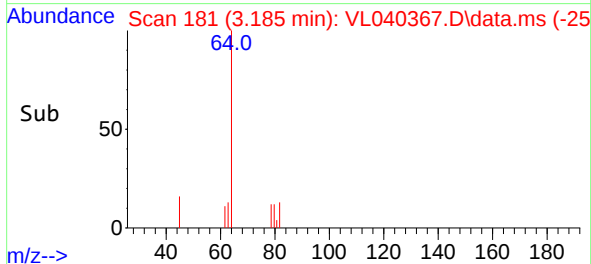
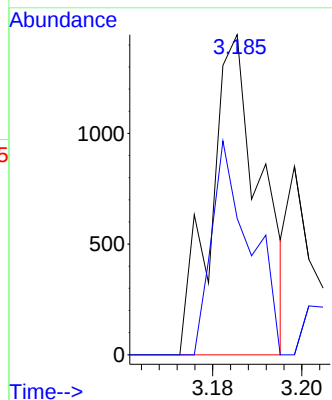
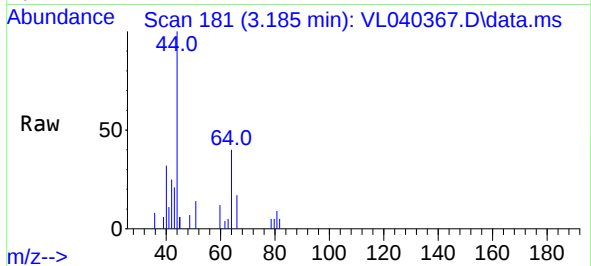




#7
Chloroethane
Concen: 0.042 ppbv
RT: 3.185 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

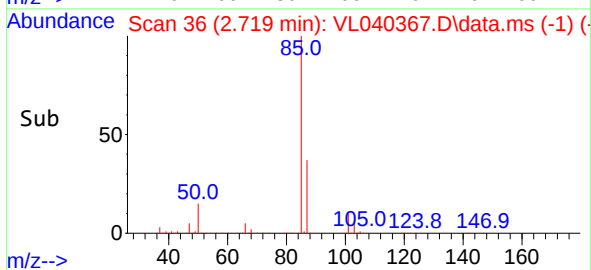
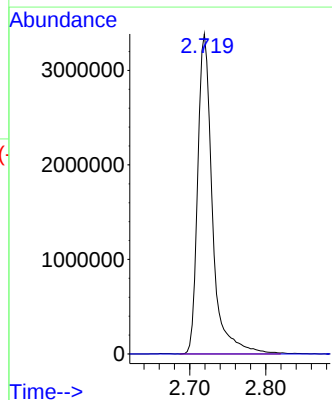
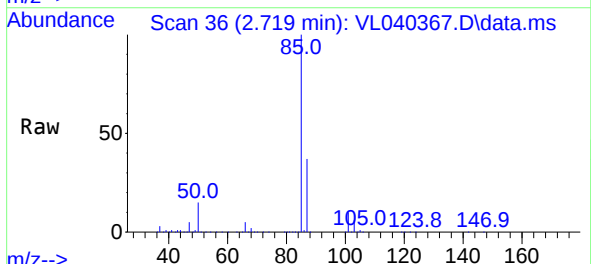
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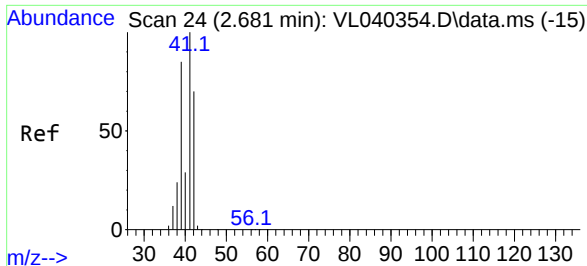
Tgt Ion: 64 Resp: 1117
Ion Ratio Lower Upper
64 100
66 42.6 27.5 41.3#



#8
Dichlorotetrafluoroethane
Concen: 25.051 ppbv
RT: 2.719 min Scan# 36
Delta R.T. -0.125 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 85 Resp: 4546424
Ion Ratio Lower Upper
85 100
135 0.0 50.7 76.1#

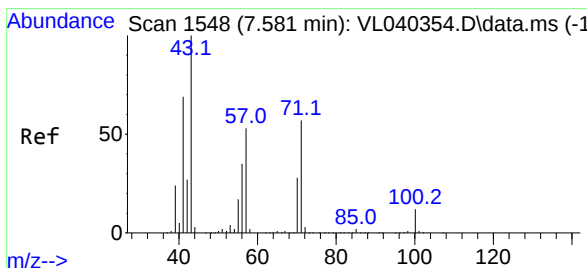
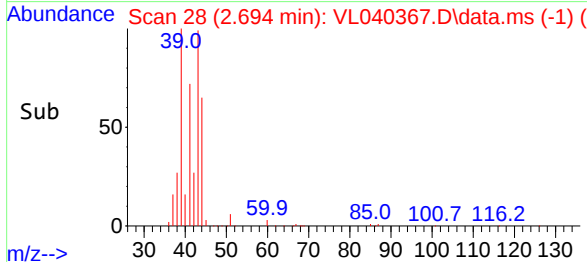
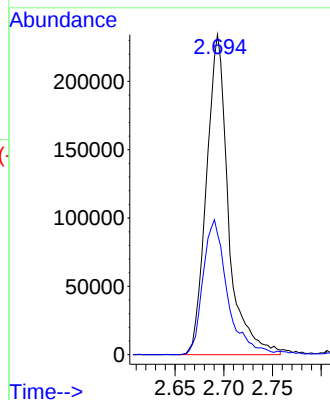
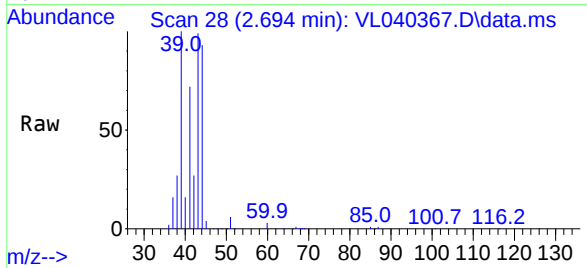




#9
 Propene
 Concen: 6.911 ppbv
 RT: 2.694 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VL040367.D
 Acq: 13 Apr 2023 20:02

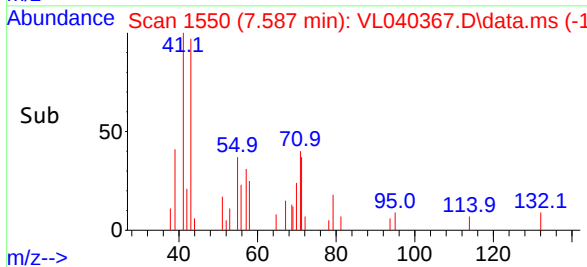
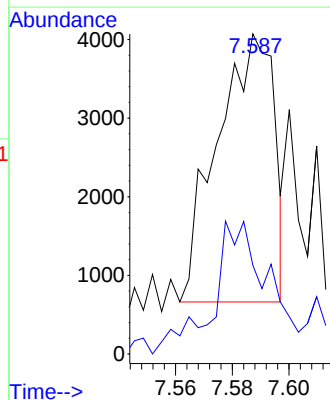
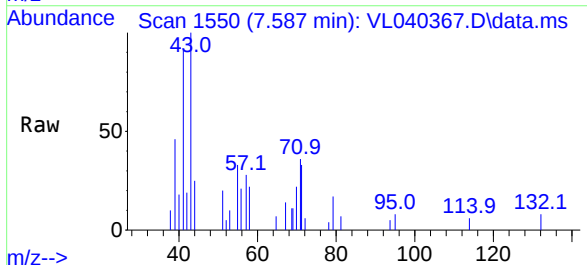
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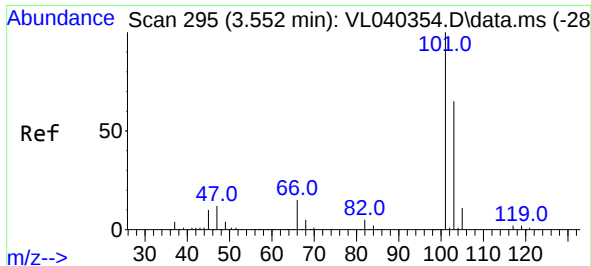
Tgt Ion: 41 Resp: 367458
 Ion Ratio Lower Upper
 41 100
 42 47.6 56.5 84.7#



#10
 Heptane
 Concen: 0.039 ppbv
 RT: 7.587 min Scan# 1550
 Delta R.T. 0.006 min
 Lab File: VL040367.D
 Acq: 13 Apr 2023 20:02

Tgt Ion: 43 Resp: 4745
 Ion Ratio Lower Upper
 43 100
 57 56.7 42.2 63.4

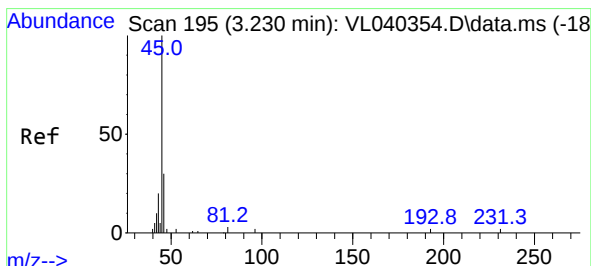
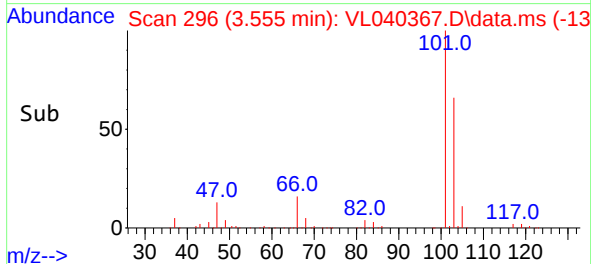
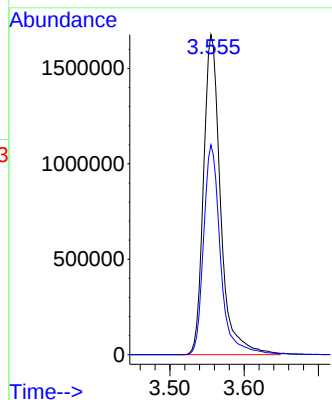
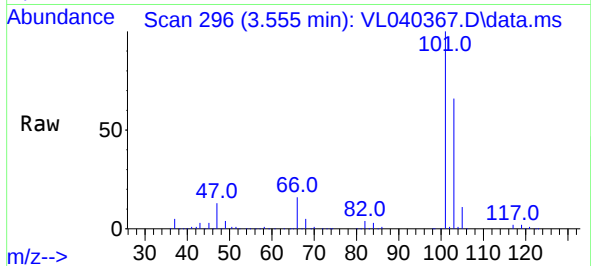




#11
Trichlorofluoromethane
Concen: 14.169 ppbv
RT: 3.555 min Scan# 295
Delta R.T. 0.003 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

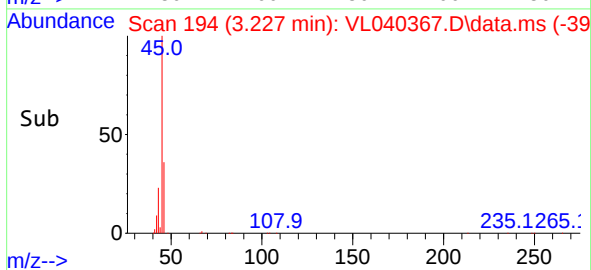
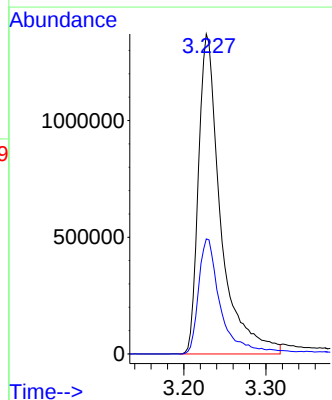
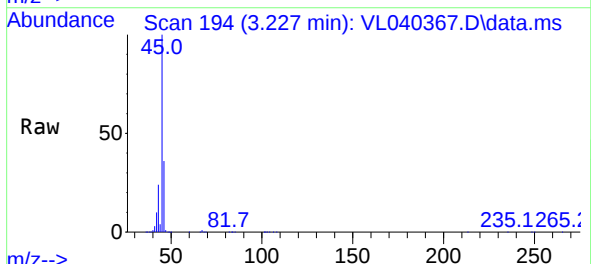
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

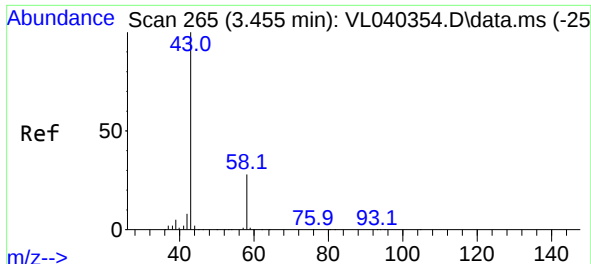
Tgt Ion:101 Resp: 2663854
Ion Ratio Lower Upper
101 100
103 65.6 52.2 78.4



#13
Ethanol
Concen: 580.588 ppbv
RT: 3.227 min Scan# 194
Delta R.T. -0.003 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 45 Resp: 2577186
Ion Ratio Lower Upper
45 100
46 37.6 15.3 61.3

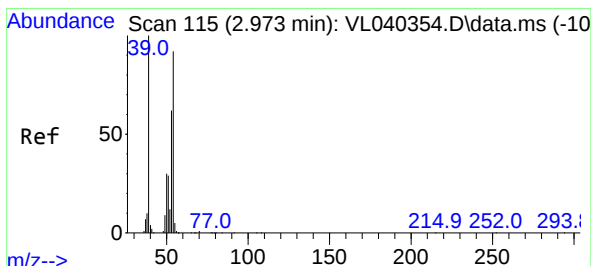
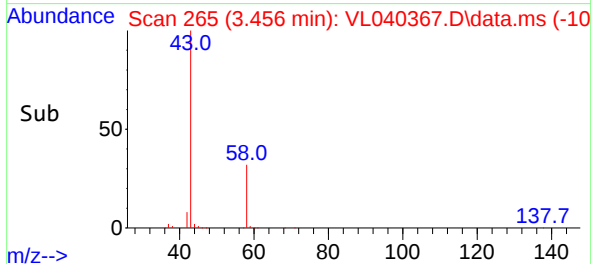
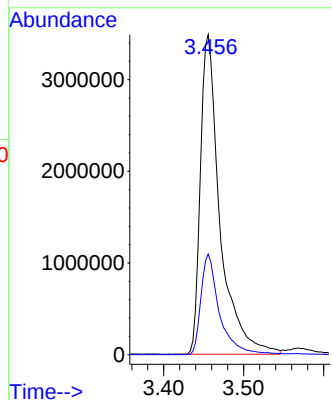
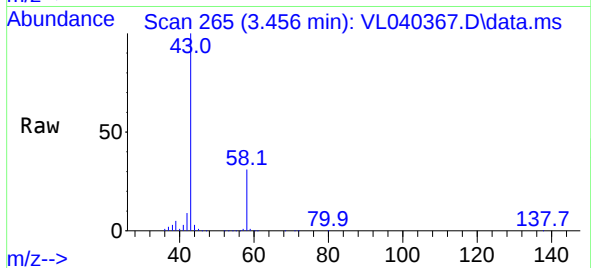




#15
Acetone
Concen: 40.705 ppbv
RT: 3.456 min Scan# 20
Delta R.T. 0.000 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

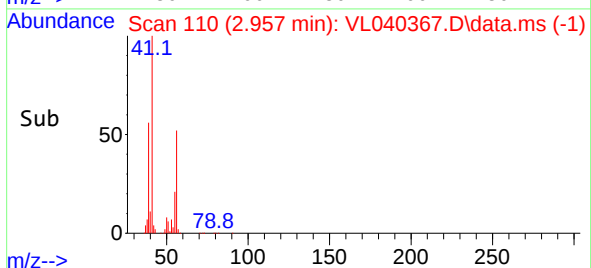
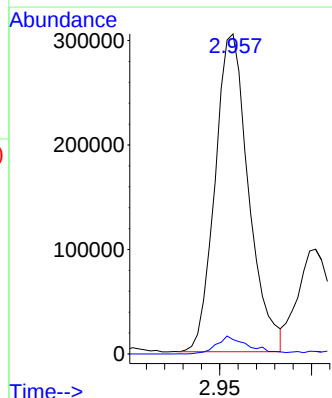
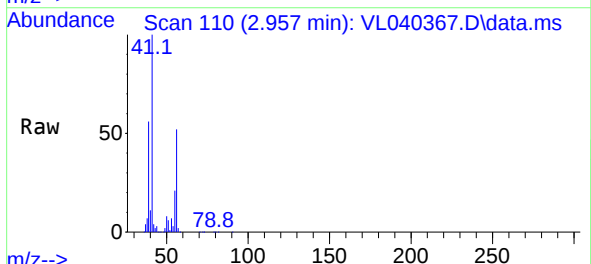
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

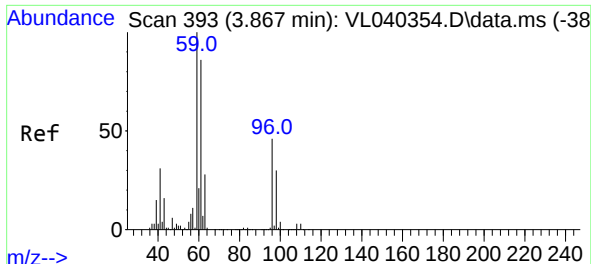
Tgt Ion: 43 Resp: 5938402
Ion Ratio Lower Upper
43 100
58 30.5 22.2 33.2



#16
1,3-Butadiene
Concen: 6.401 ppbv
RT: 2.957 min Scan# 110
Delta R.T. -0.016 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 39 Resp: 386443
Ion Ratio Lower Upper
39 100
54 6.3 68.8 103.2#





#17

tert-Butyl alcohol

Concen: 1.782 ppbv

RT: 3.880 min Scan# 393

Delta R.T. 0.013 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

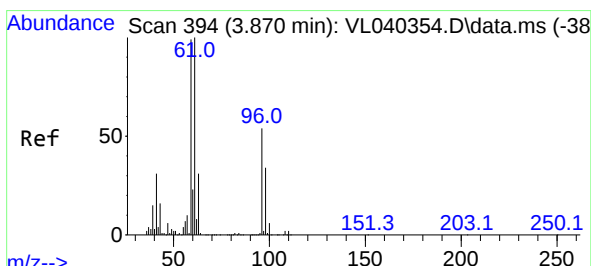
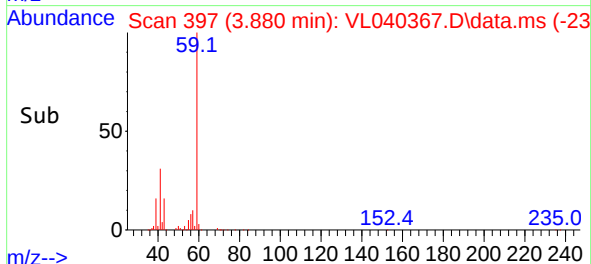
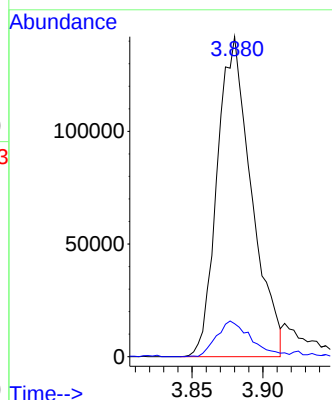
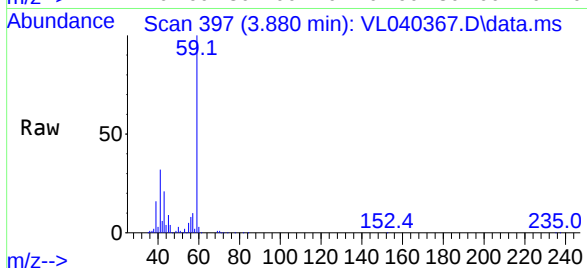
SV-24-20230412

Tgt Ion: 59 Resp: 238720

Ion Ratio Lower Upper

59 100

57 12.7 8.5 12.7



#18

1,1-Dichloroethene

Concen: 0.002 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.055 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

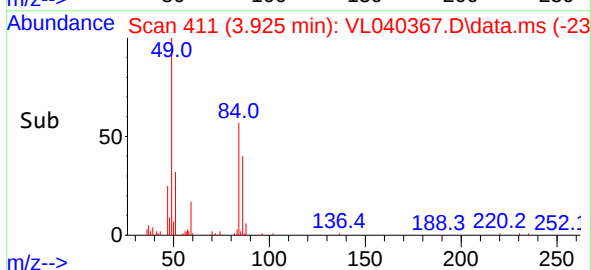
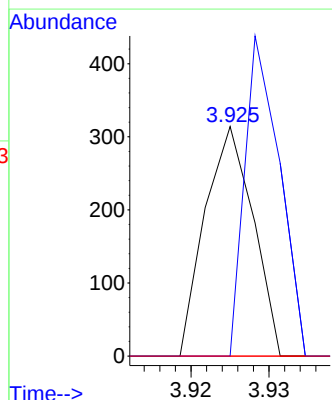
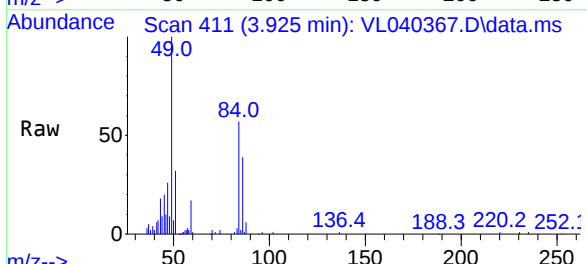
Tgt Ion: 96 Resp: 135

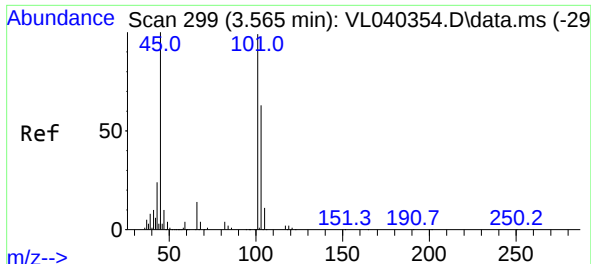
Ion Ratio Lower Upper

96 100

61 0.0 148.3 222.5#

98 0.0 49.8 74.8#





#19

Isopropyl Alcohol

Concen: 3.912 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.007 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

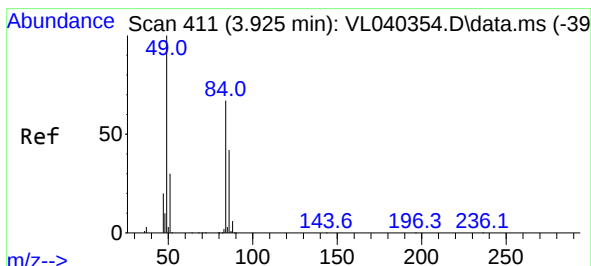
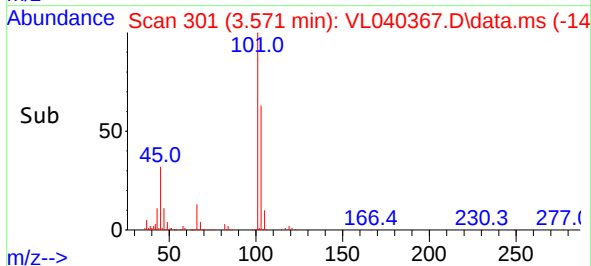
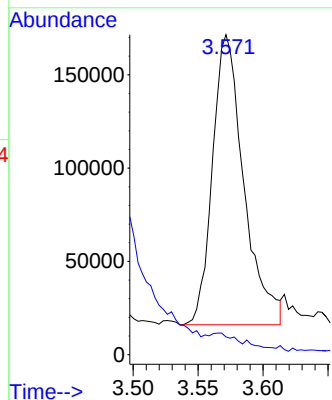
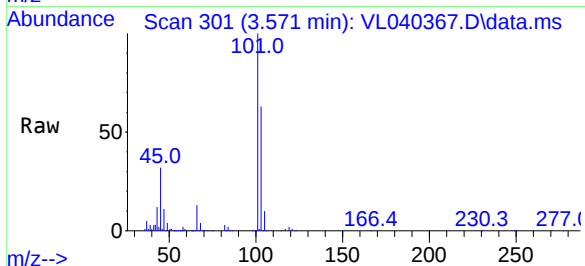
SV-24-20230412

Tgt Ion: 45 Resp: 260415

Ion Ratio Lower Upper

45 100

58 697.3 2.6 4.0#



#20

Methylene Chloride

Concen: 0.817 ppbv

RT: 3.928 min Scan# 412

Delta R.T. 0.003 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Tgt Ion: 84 Resp: 47580

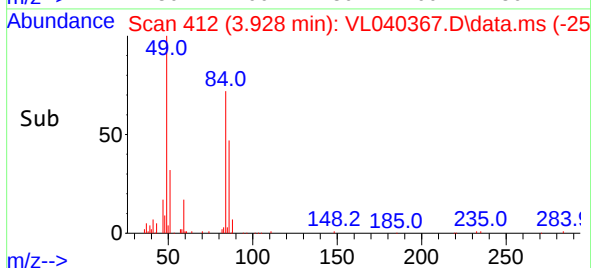
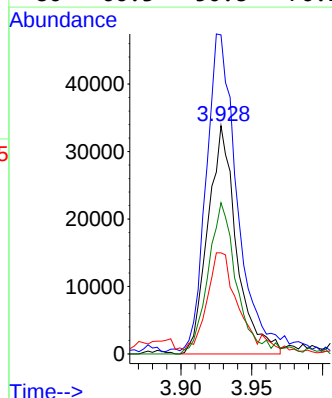
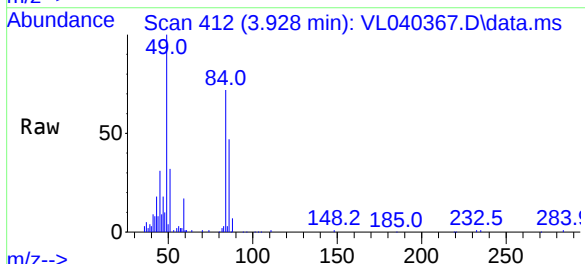
Ion Ratio Lower Upper

84 100

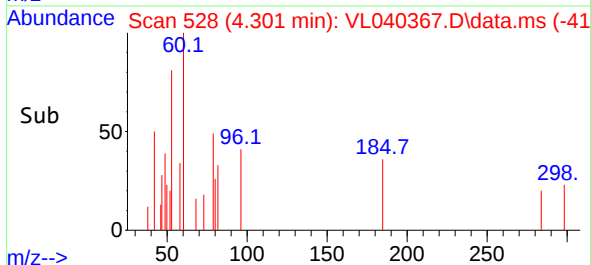
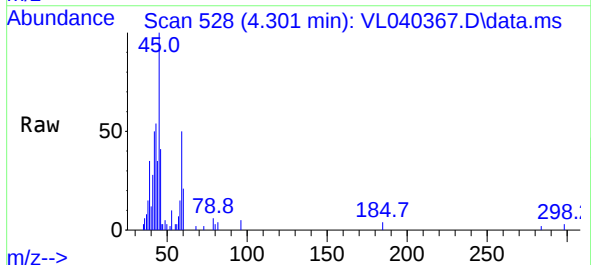
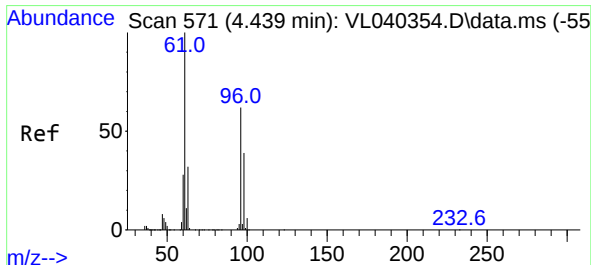
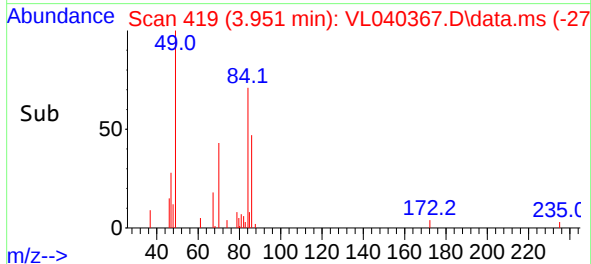
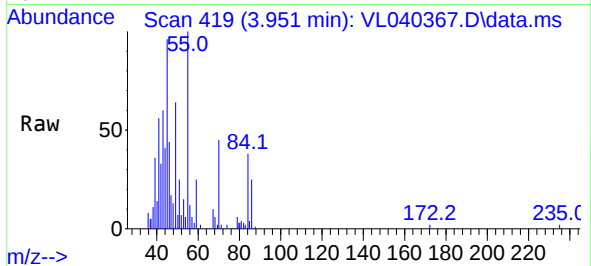
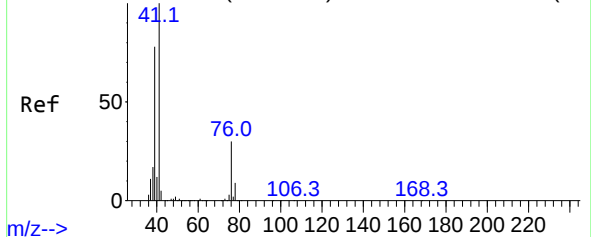
49 138.4 120.1 180.1

51 41.8 36.3 54.5

86 66.3 50.8 76.2



Abundance Scan 430 (3.986 min): VL040354.D\data.ms (-42



#21

Allyl Chloride

Concen: 0.037 ppbv

RT: 3.951 min Scan# 41

Delta R.T. -0.035 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

SV-24-20230412

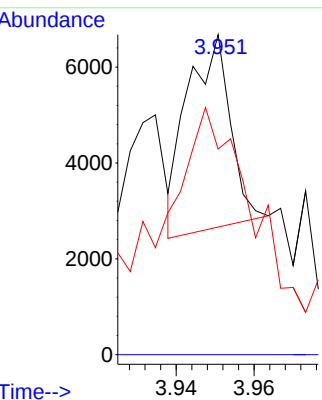
Tgt Ion: 41 Resp: 3103

Ion Ratio Lower Upper

41 100

76 0.0 25.5 38.3#

39 273.2 64.0 96.0#



#22

trans-1,2-Dichloroethene

Concen: 0.002 ppbv

RT: 4.301 min Scan# 528

Delta R.T. -0.138 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

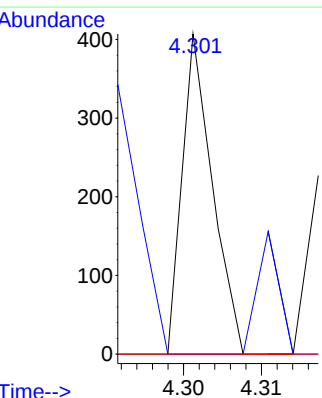
Tgt Ion: 96 Resp: 109

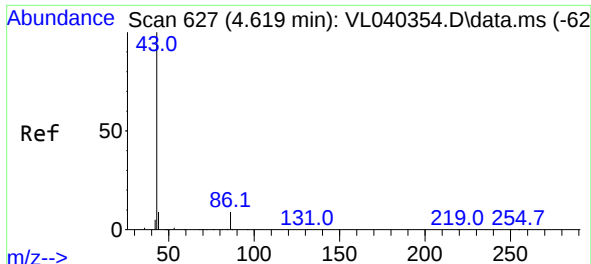
Ion Ratio Lower Upper

96 100

61 0.0 129.4 194.2#

98 0.0 51.0 76.4#



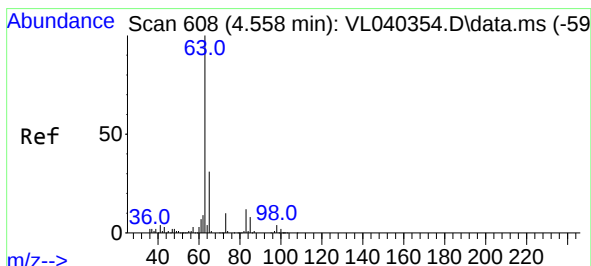
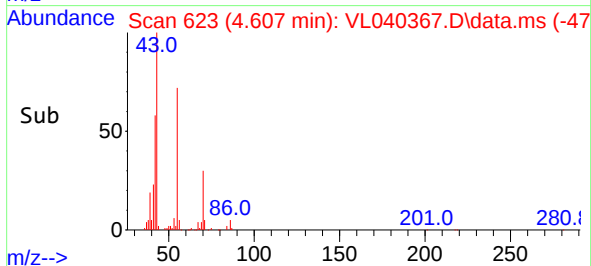
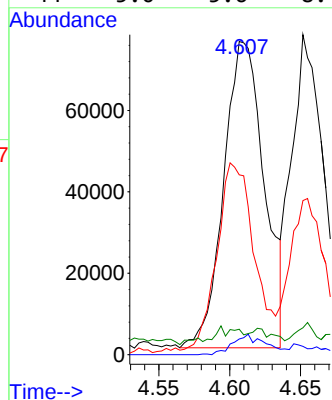
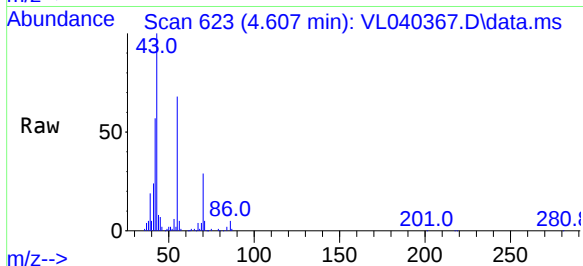


#23
 Vinyl Acetate
 Concen: 4.035 ppbv
 RT: 4.607 min Scan# 61
 Delta R.T. -0.013 min
 Lab File: VL040367.D
 Acq: 13 Apr 2023 20:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-24-20230412

Tgt Ion: 43 Resp: 149859

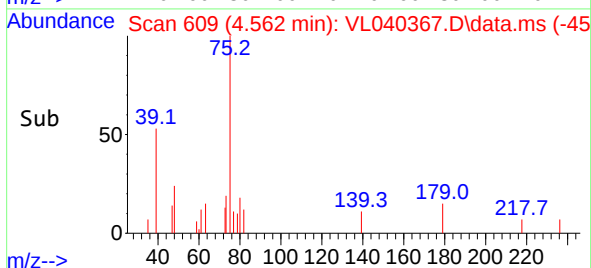
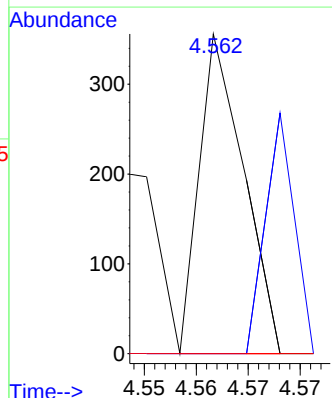
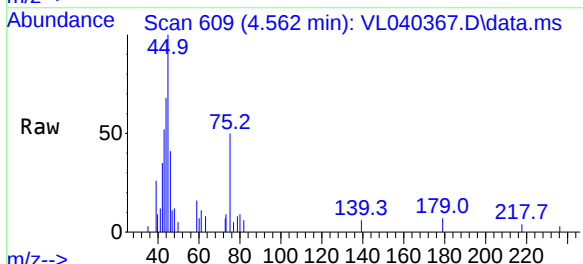
Ion	Ratio	Lower	Upper
43	100		
86	5.1	6.0	9.0#
42	57.3	6.4	9.6#
44	5.0	5.6	8.4#

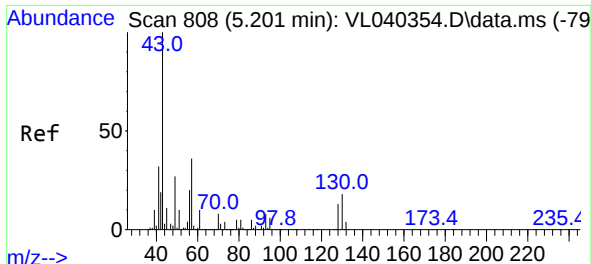


#24
 1,1-Dichloroethane
 Concen: 0.001 ppbv
 RT: 4.562 min Scan# 609
 Delta R.T. 0.003 min
 Lab File: VL040367.D
 Acq: 13 Apr 2023 20:02

Tgt Ion: 63 Resp: 106

Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.2#
100	0.0	1.2	3.6#





#25

Ethyl Acetate

Concen: 0.239 ppbv

RT: 5.205 min Scan# 80

Delta R.T. 0.003 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

SV-24-20230412

Tgt Ion: 43 Resp: 58658

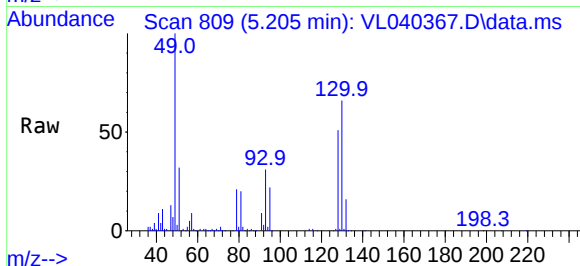
Ion Ratio Lower Upper

43 100

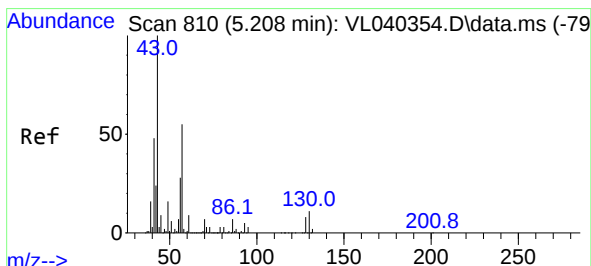
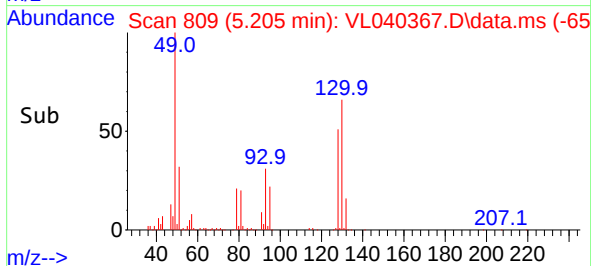
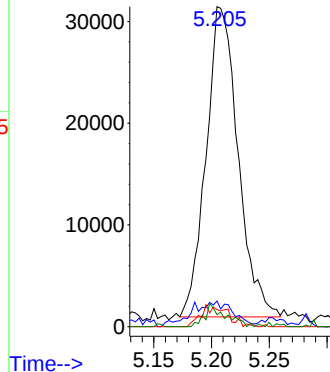
45 10.6 8.5 12.7

61 5.8 8.5 12.7#

70 4.8 6.1 9.1#



Abundance



#26

Hexane

Concen: 0.473 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.003 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Tgt Ion: 57 Resp: 48978

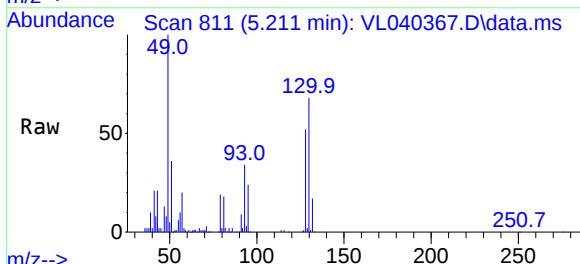
Ion Ratio Lower Upper

57 100

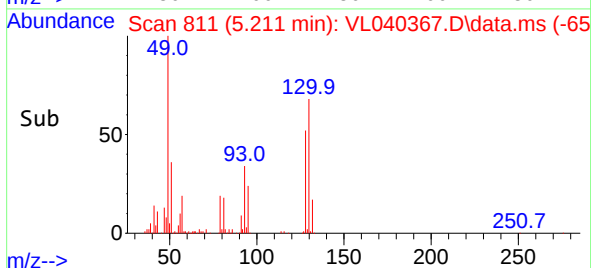
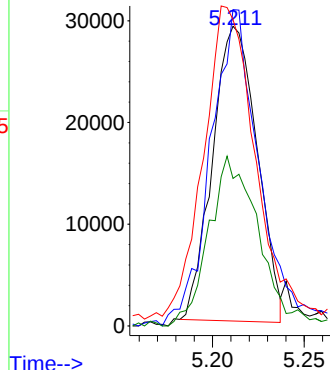
41 121.3 74.8 112.2#

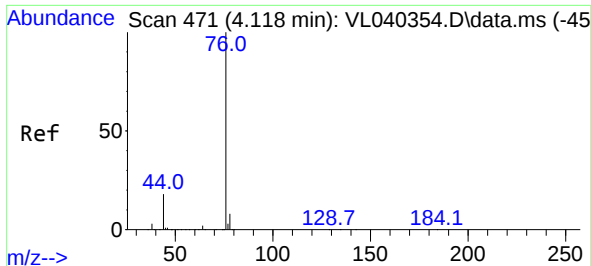
43 129.8 192.7 289.1#

56 65.8 42.6 64.0#



Abundance

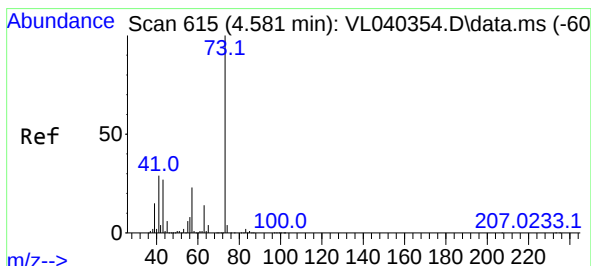
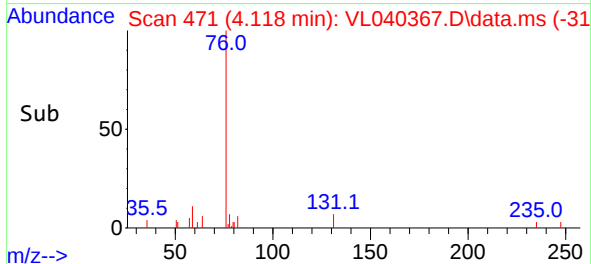
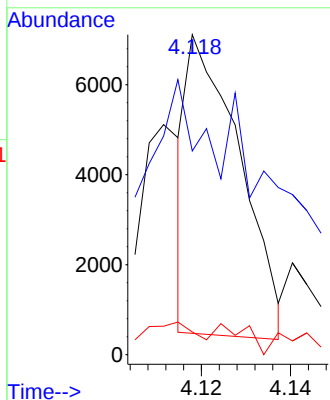
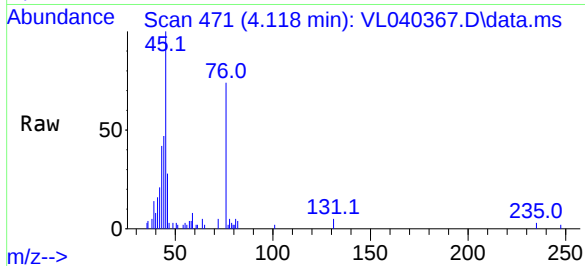




#27
Carbon Disulfide
Concen: 0.041 ppbv
RT: 4.118 min Scan# 471
Delta R.T. 0.000 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

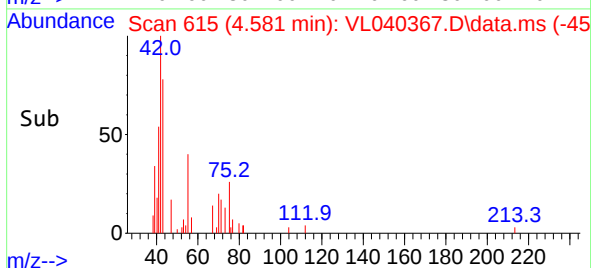
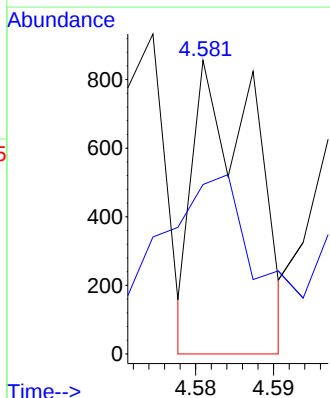
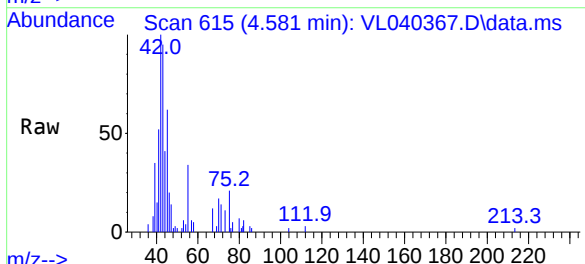
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

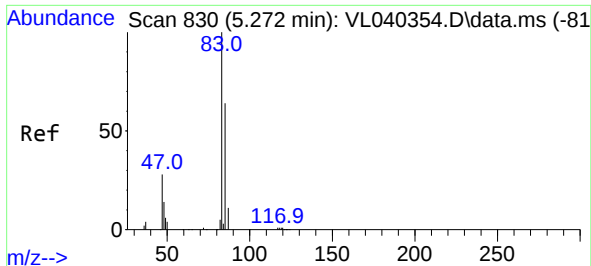
Tgt Ion: 76 Resp: 5479
Ion Ratio Lower Upper
76 100
44 87.3 14.7 22.1#
78 28.4 7.7 11.5#



#28
Methyl tert-Butyl Ether
Concen: 0.004 ppbv
RT: 4.581 min Scan# 615
Delta R.T. 0.000 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 73 Resp: 466
Ion Ratio Lower Upper
73 100
57 0.0 18.6 27.8#





#29

Chloroform

Concen: 0.057 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

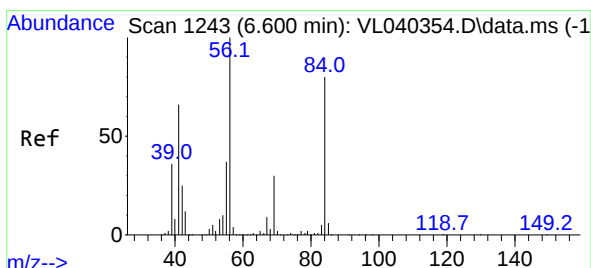
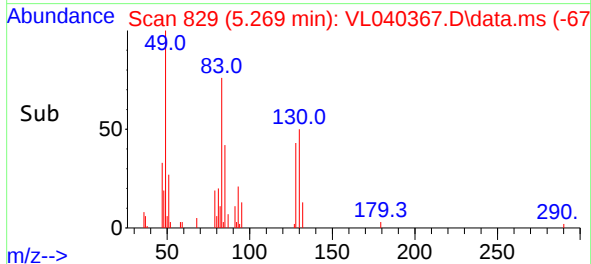
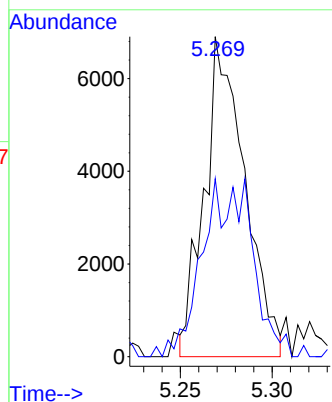
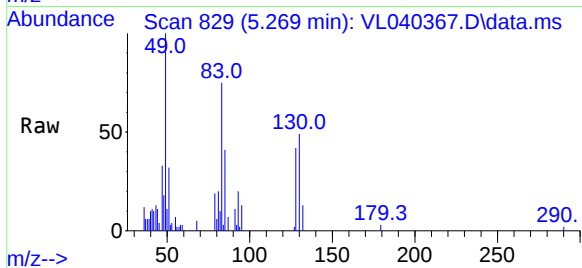
SV-24-20230412

Tgt Ion: 83 Resp: 10580

Ion Ratio Lower Upper

83 100

85 54.8 51.0 76.4



#30

Cyclohexane

Concen: 0.006 ppbv

RT: 6.603 min Scan# 1244

Delta R.T. 0.003 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

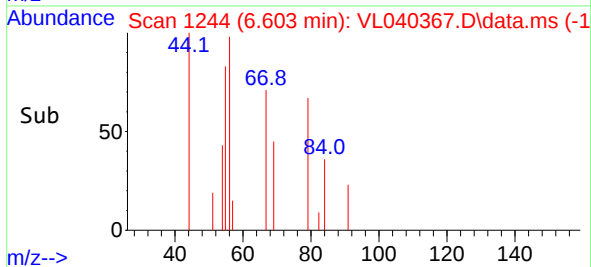
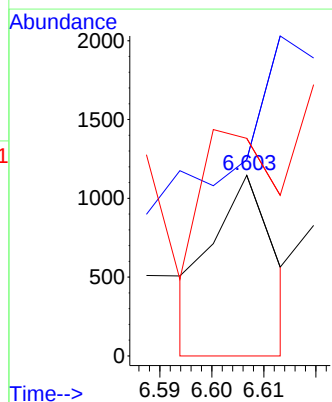
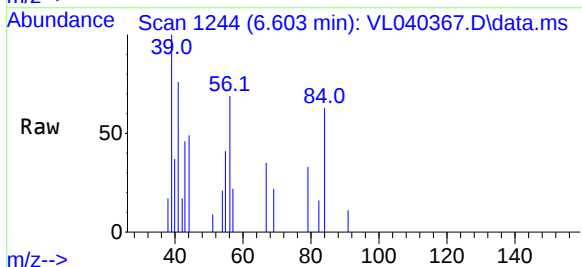
Tgt Ion: 84 Resp: 467

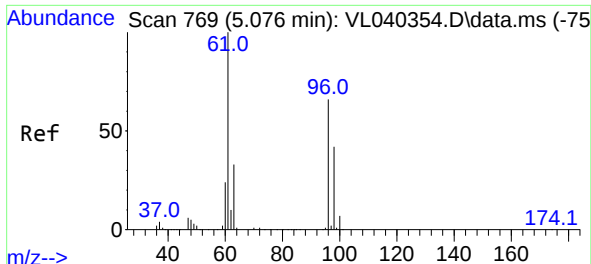
Ion Ratio Lower Upper

84 100

56 0.0 107.0 160.6#

41 0.0 66.7 100.1#

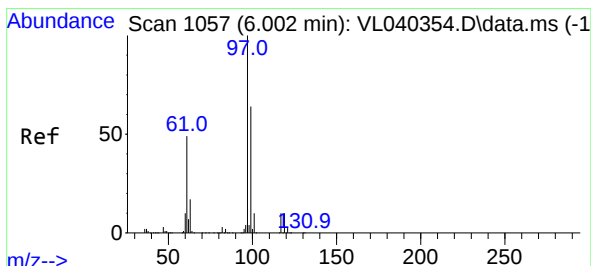
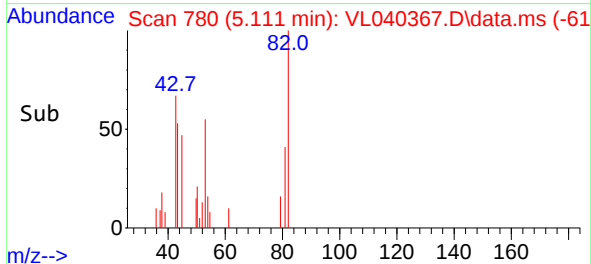
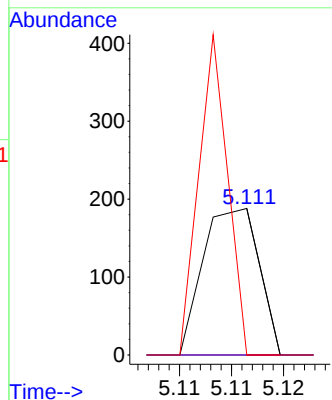
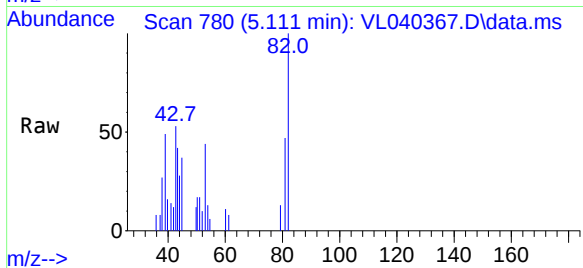




#31
 cis-1,2-Dichloroethene
 Concen: 0.001 ppbv
 RT: 5.111 min Scan# 70
 Delta R.T. 0.035 min
 Lab File: VL040367.D
 Acq: 13 Apr 2023 20:02

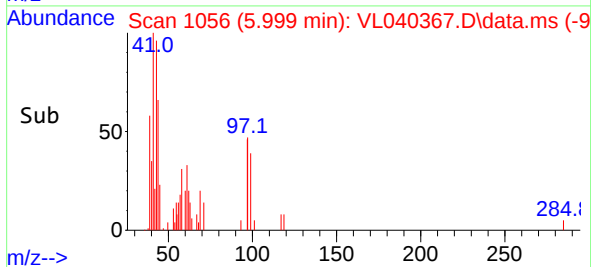
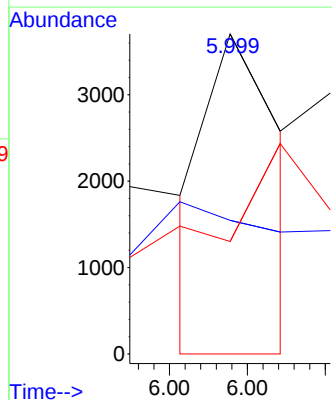
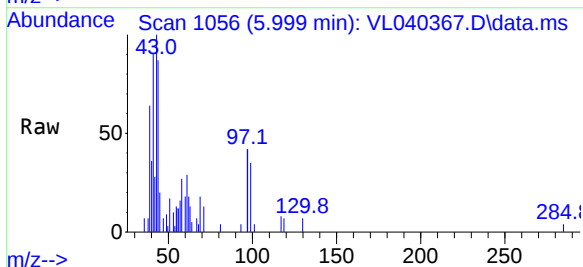
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-24-20230412

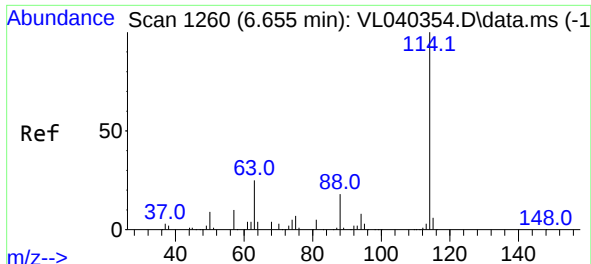
Tgt Ion: 61 Resp: 70
 Ion Ratio Lower Upper
 61 100
 96 0.0 53.0 79.4#
 98 0.0 33.8 50.8#



#32
 1,1,1-Trichloroethane
 Concen: 0.007 ppbv
 RT: 5.999 min Scan# 1056
 Delta R.T. -0.003 min
 Lab File: VL040367.D
 Acq: 13 Apr 2023 20:02

Tgt Ion: 97 Resp: 1212
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.8 77.8#
 61 259.4 40.4 60.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

SV-24-20230412

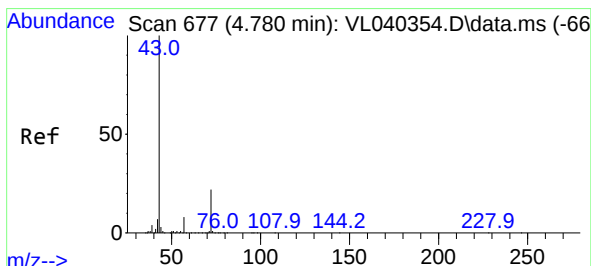
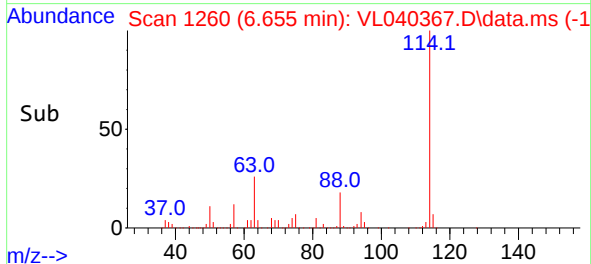
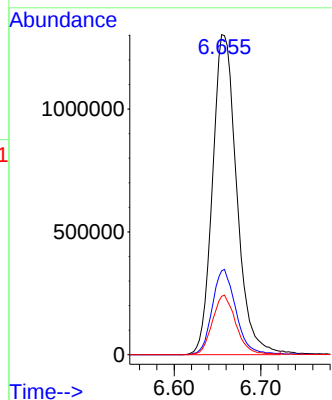
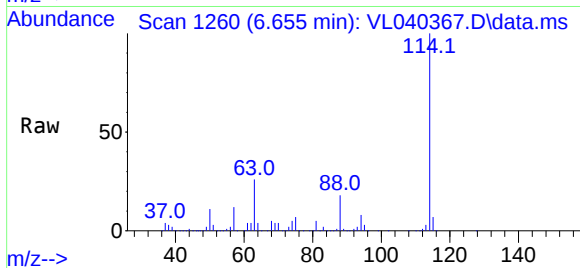
Tgt Ion:114 Resp: 2523693

Ion Ratio Lower Upper

114 100

63 26.4 21.4 32.0

88 18.3 14.6 22.0



#34

2-Butanone

Concen: 1.864 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.007 min

Lab File: VL040367.D

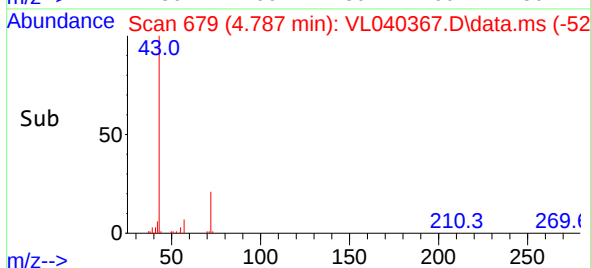
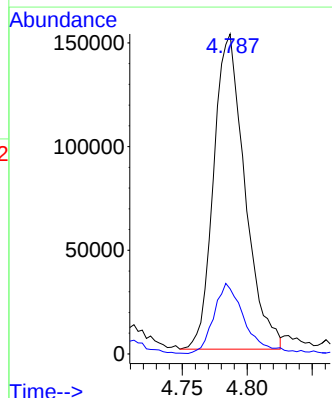
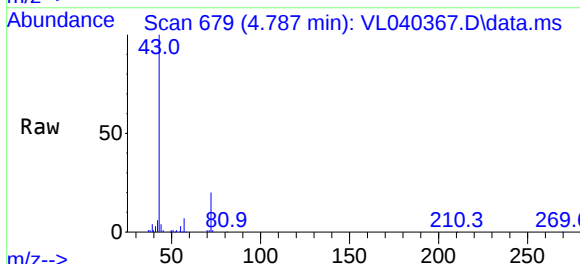
Acq: 13 Apr 2023 20:02

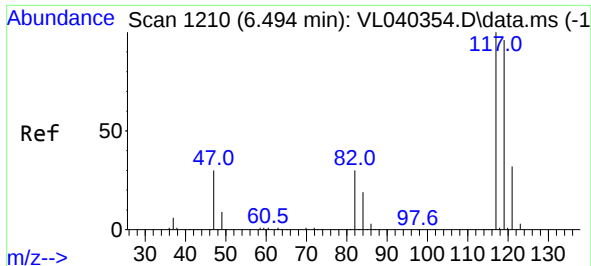
Tgt Ion: 43 Resp: 253645

Ion Ratio Lower Upper

43 100

72 22.8 18.4 27.6

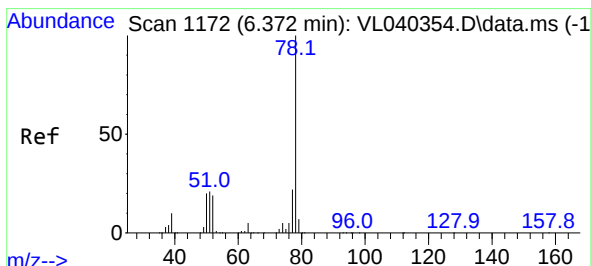
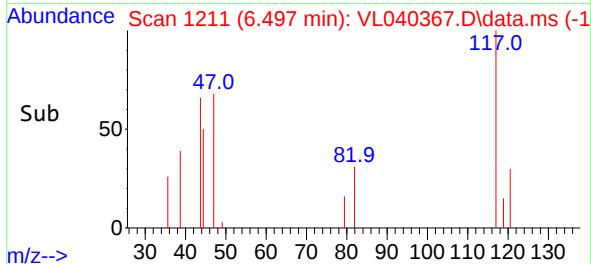
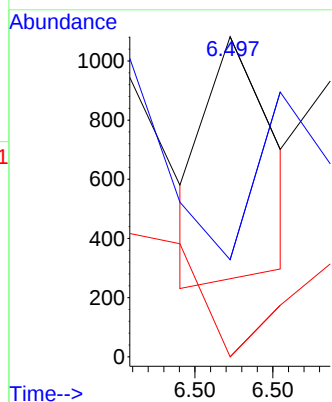
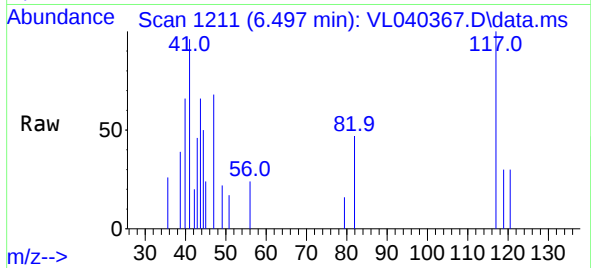




#35
Carbon Tetrachloride
Concen: 0.001 ppbv
RT: 6.497 min Scan# 1170
Delta R.T. 0.003 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

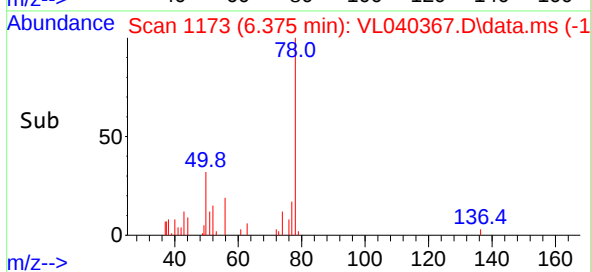
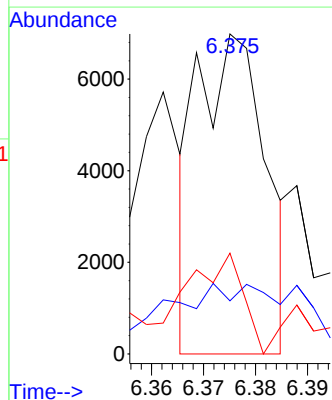
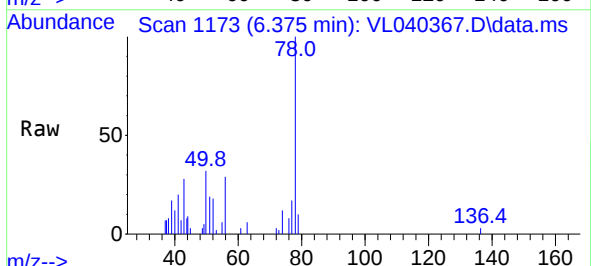
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

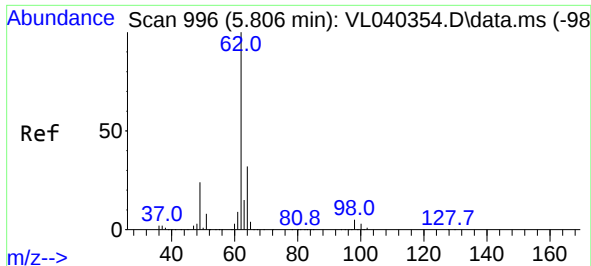
Tgt Ion: 117 Resp: 242
Ion Ratio Lower Upper
117 100
119 0.0 76.6 114.8#
121 0.0 25.3 37.9#



#36
Benzene
Concen: 0.031 ppbv
RT: 6.375 min Scan# 1173
Delta R.T. 0.003 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 78 Resp: 6321
Ion Ratio Lower Upper
78 100
77 2.3 17.8 26.8#
50 44.6 15.6 23.4#

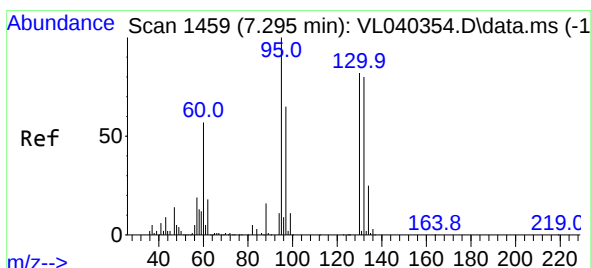
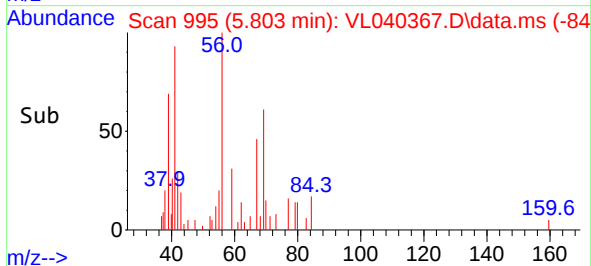
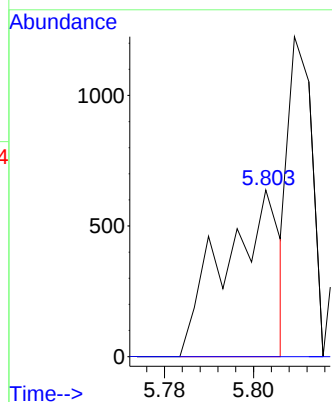
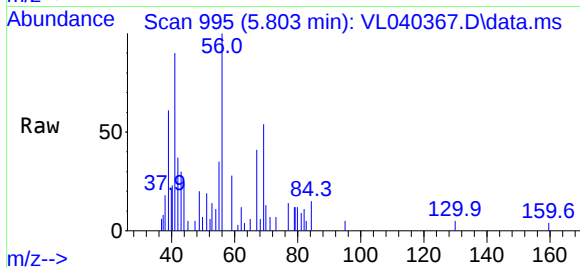




#37
1,2-Dichloroethane
Concen: 0.004 ppbv
RT: 5.803 min Scan# 996
Delta R.T. -0.003 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

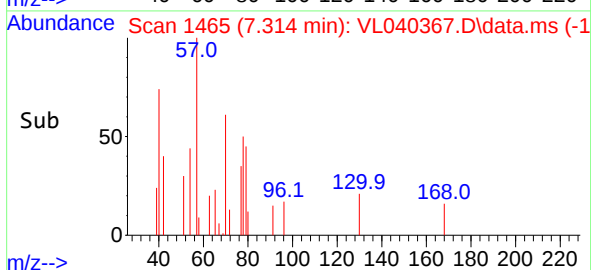
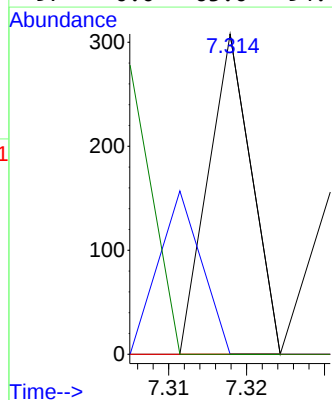
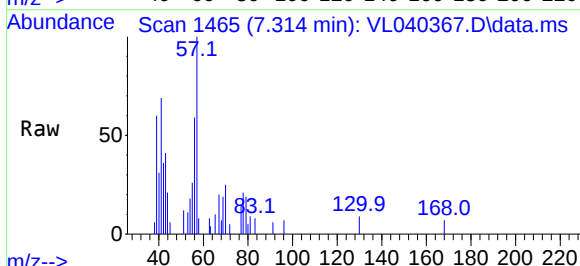
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

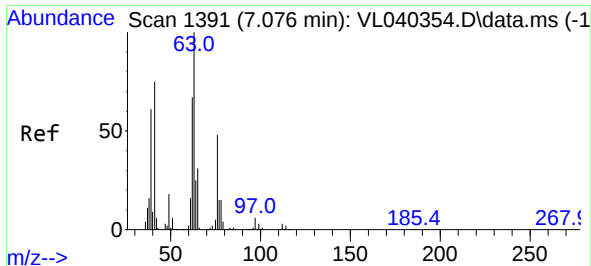
Tgt Ion: 62 Resp: 550
Ion Ratio Lower Upper
62 100
98 0.0 4.4 6.6#



#38
Trichloroethene
Concen: 0.001 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. 0.019 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion:130 Resp: 59
Ion Ratio Lower Upper
130 100
95 0.0 97.4 146.0#
132 0.0 77.5 116.3#
97 0.0 63.0 94.4#





#39

1,2-Dichloropropane

Concen: 8.055 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

SV-24-20230412

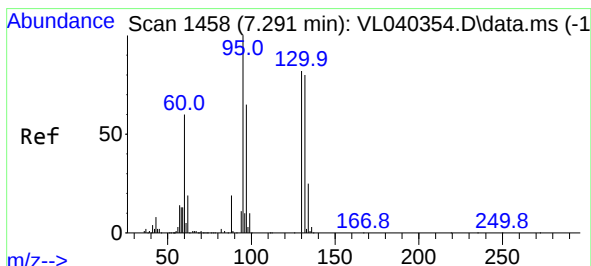
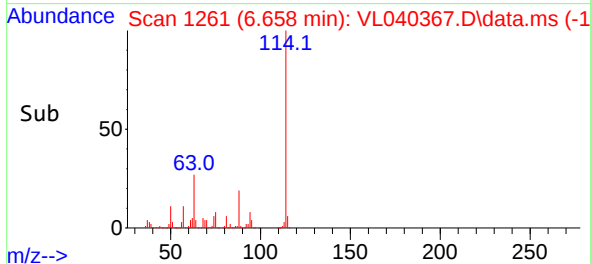
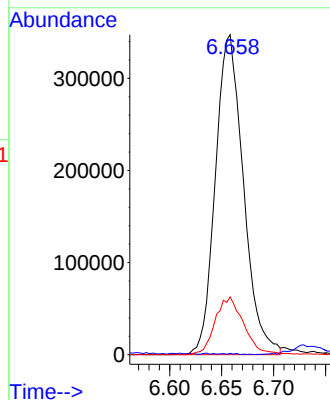
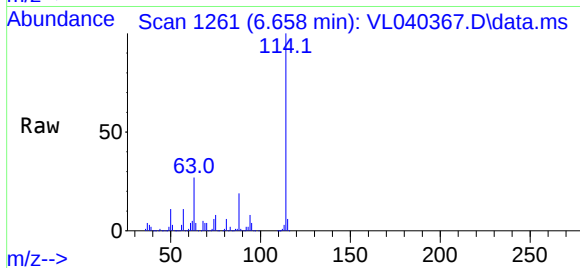
Tgt Ion: 63 Resp: 652590

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 18.0 53.9 80.9#



#40

1,4-Dioxane

Concen: 0.001 ppbv

RT: 7.324 min Scan# 1468

Delta R.T. 0.032 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Tgt Ion: 88 Resp: 36

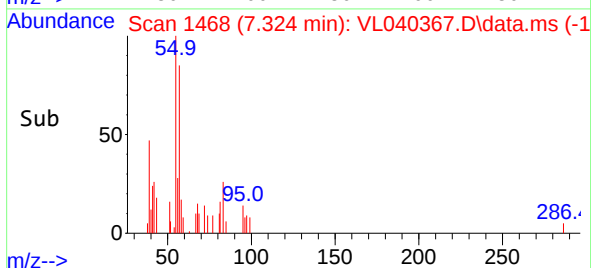
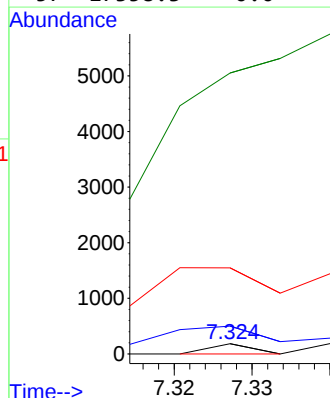
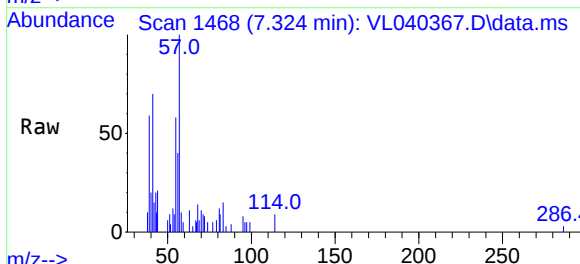
Ion Ratio Lower Upper

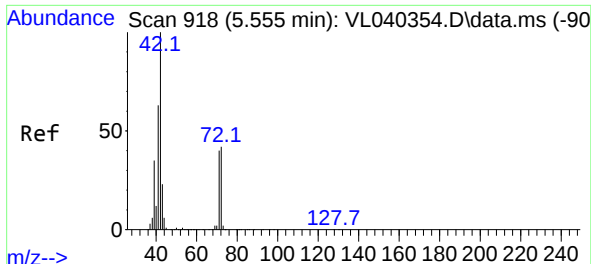
88 100

58 0.0 100.8 151.2#

43 35250.0 0.0 0.0#

57 17358.3 0.0 0.0#





#41

Tetrahydrofuran

Concen: 0.037 ppbv

RT: 5.549 min Scan# 918

Delta R.T. -0.006 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

SV-24-20230412

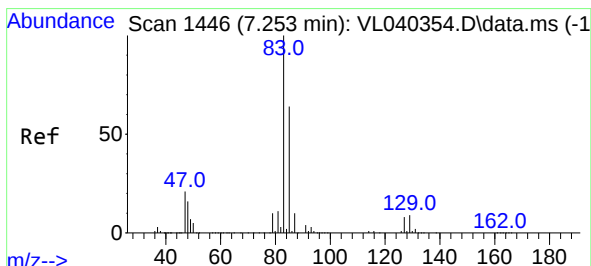
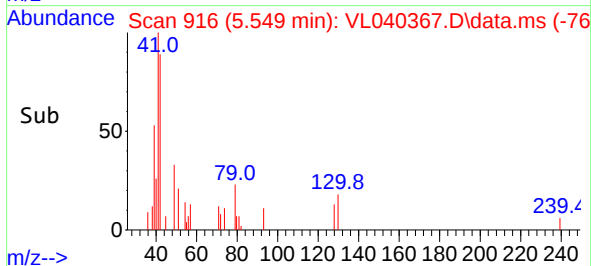
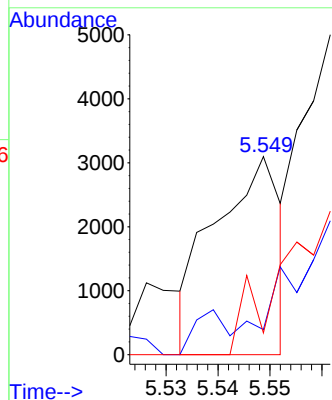
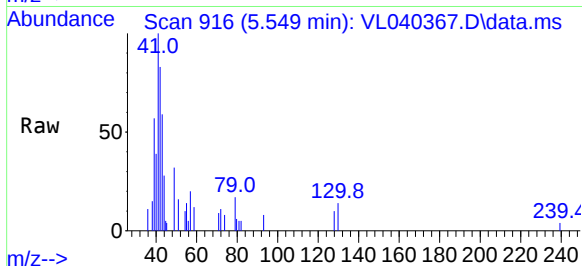
Tgt Ion: 42 Resp: 2726

Ion Ratio Lower Upper

42 100

72 0.0 33.7 50.5#

71 0.0 32.2 48.2#



#42

Bromodichloromethane

Concen: 0.001 ppbv

RT: 7.256 min Scan# 1447

Delta R.T. 0.003 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

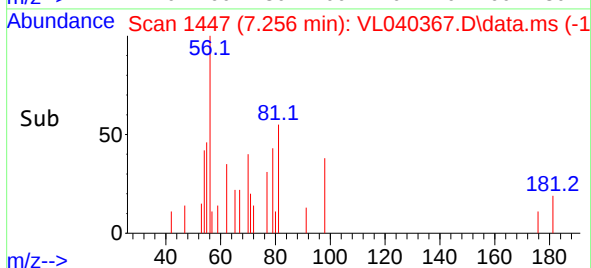
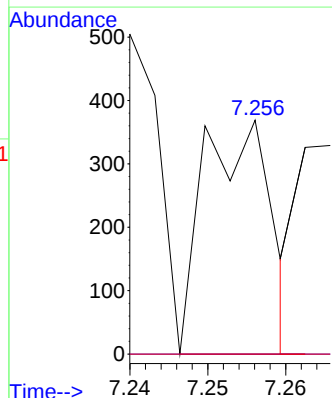
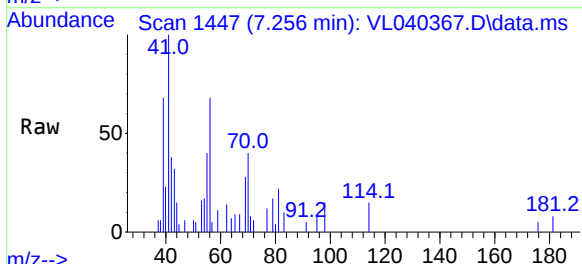
Tgt Ion: 83 Resp: 222

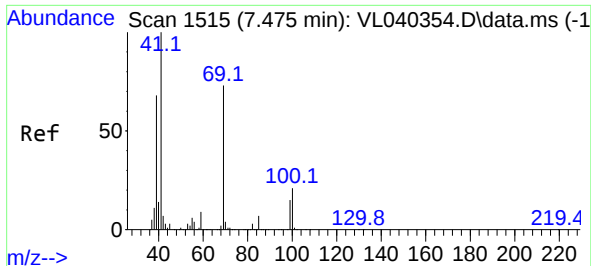
Ion Ratio Lower Upper

83 100

85 0.0 50.9 76.3#

127 0.0 6.4 9.6#

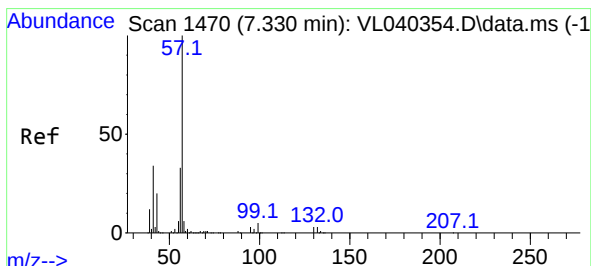
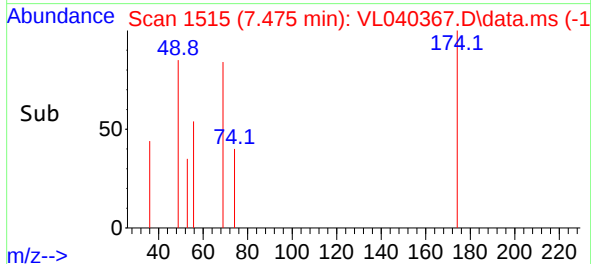
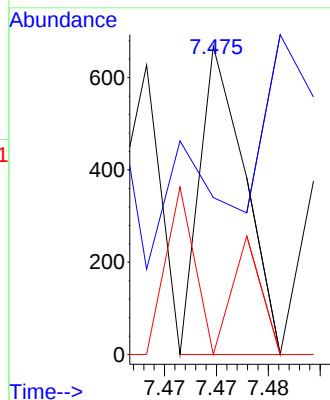
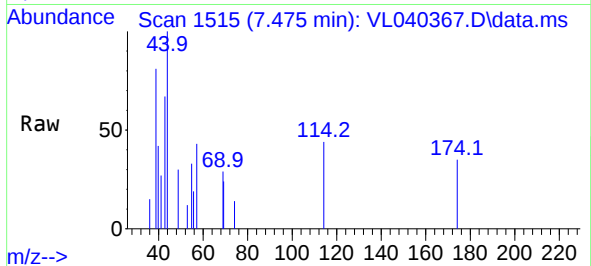




#43
Methyl Methacrylate
Concen: 0.003 ppbv
RT: 7.475 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

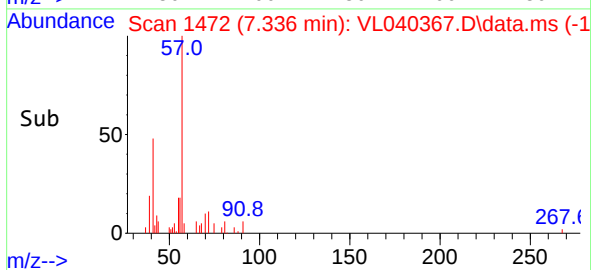
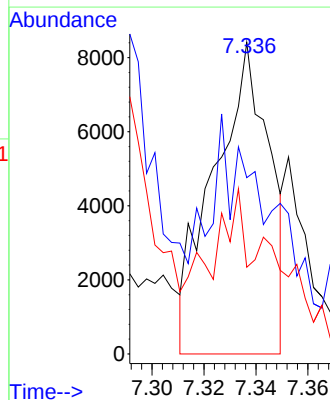
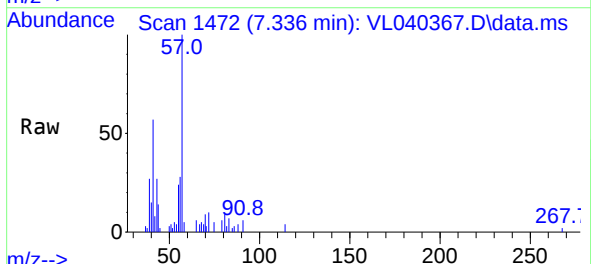
Instrument :
MSVOA_1
ClientSampleId :
SV-24-20230412

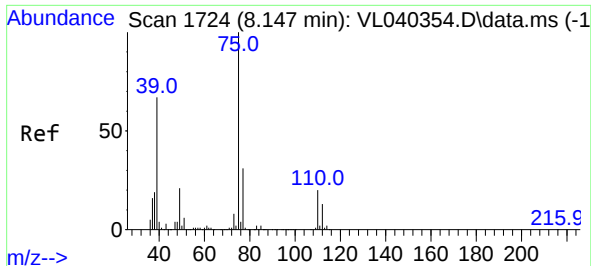
Tgt Ion: 69 Resp: 203
Ion Ratio Lower Upper
69 100
41 0.0 114.3 171.5#
100 0.0 24.5 36.7#



#44
2,2,4-Trimethylpentane
Concen: 0.036 ppbv
RT: 7.336 min Scan# 1472
Delta R.T. 0.006 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 57 Resp: 12446
Ion Ratio Lower Upper
57 100
41 103.8 26.9 40.3#
56 65.7 25.1 37.7#

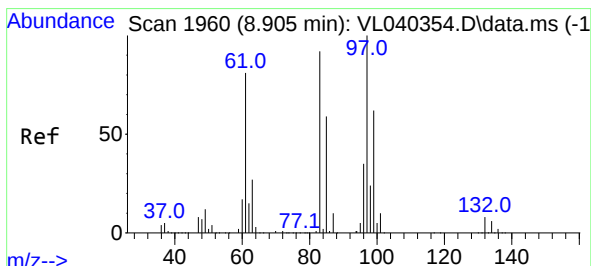
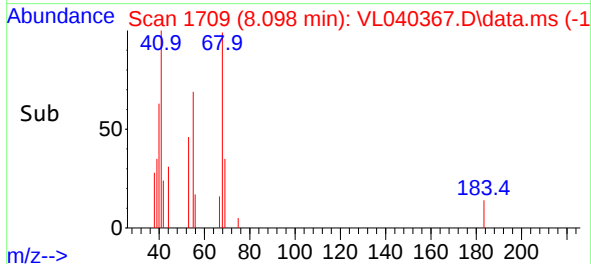
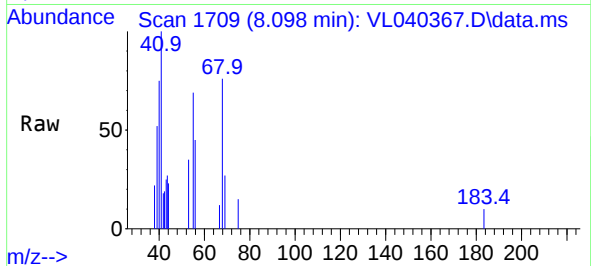




#46
cis-1,3-Dichloropropene
Concen: 0.001 ppbv
RT: 8.098 min Scan# 11
Delta R.T. -0.048 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

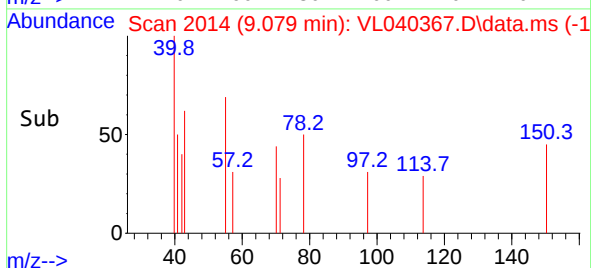
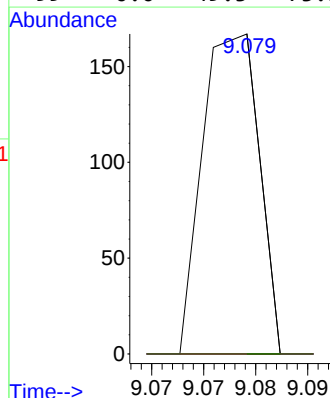
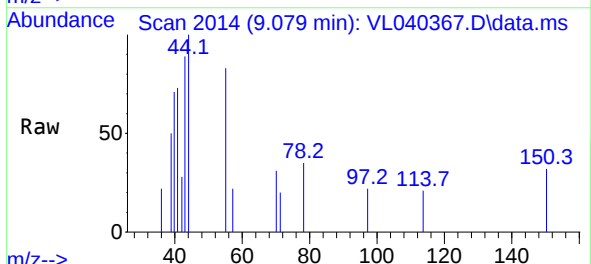
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

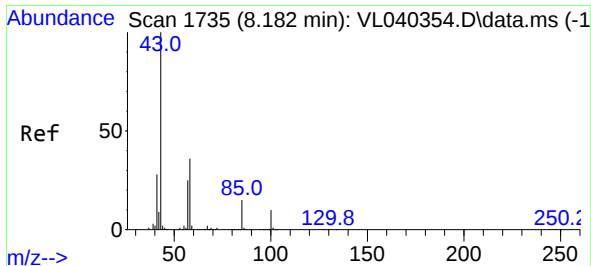
Tgt Ion: 75	Resp:	72
Ion Ratio	Lower	Upper
75	100	
39	0.0	53.4 80.2#
77	0.0	24.7 37.1#



#47
1,1,2-Trichloroethane
Concen: 0.001 ppbv
RT: 9.079 min Scan# 2014
Delta R.T. 0.174 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 97	Resp:	63
Ion Ratio	Lower	Upper
97	100	
83	0.0	73.3 109.9#
85	0.0	46.9 70.3#
99	0.0	49.3 73.9#





#50

4-Methyl-2-Pentanone

Concen: 0.067 ppbv

RT: 8.198 min Scan# 1

Delta R.T. 0.016 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

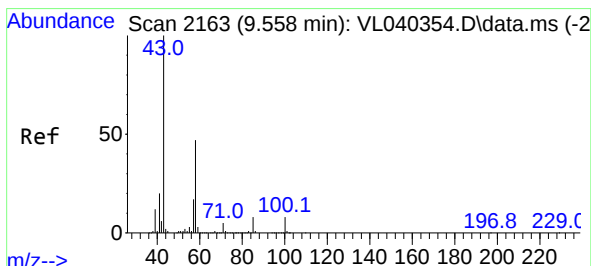
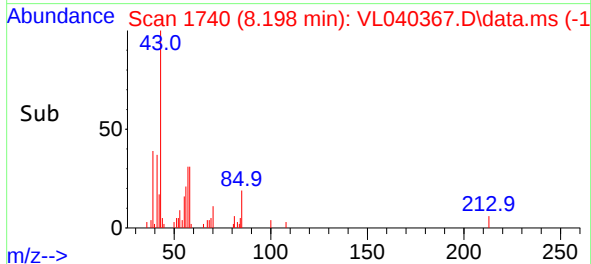
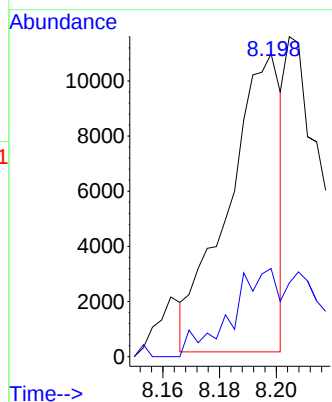
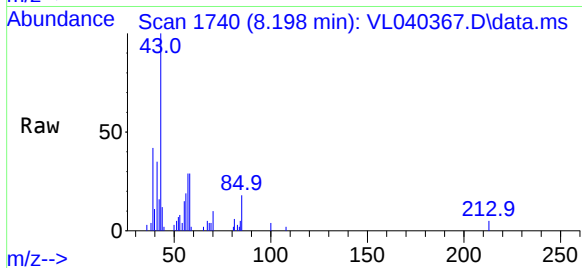
SV-24-20230412

Tgt Ion: 43 Resp: 13913

Ion Ratio Lower Upper

43 100

58 61.1 28.6 43.0#



#51

2-Hexanone

Concen: 0.004 ppbv

RT: 9.561 min Scan# 2164

Delta R.T. 0.003 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

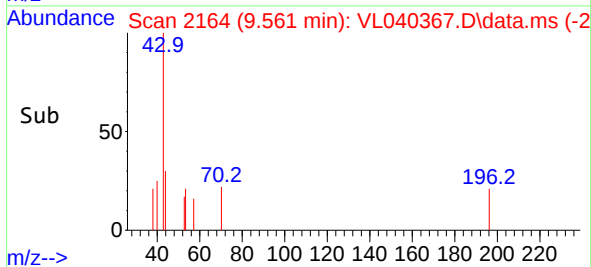
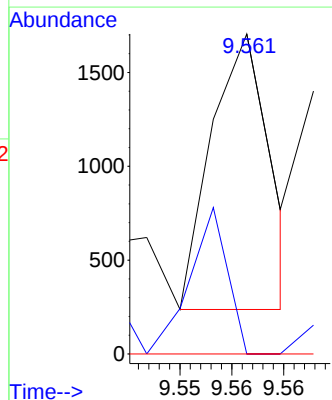
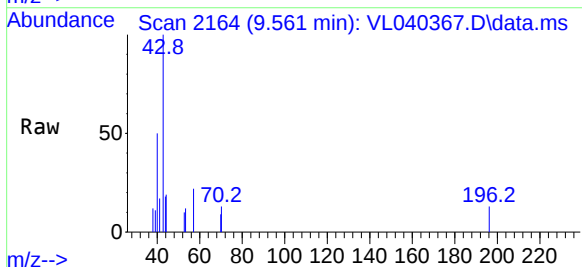
Tgt Ion: 43 Resp: 582

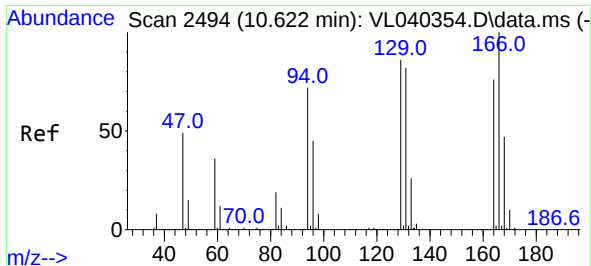
Ion Ratio Lower Upper

43 100

58 57.4 38.3 57.5

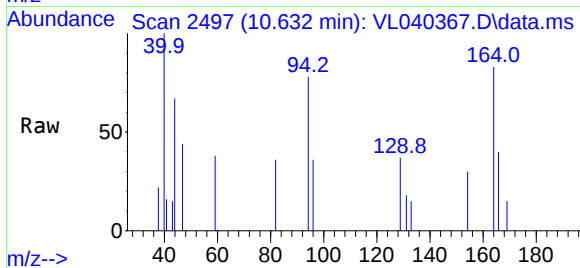
98 0.0 0.4 0.6#



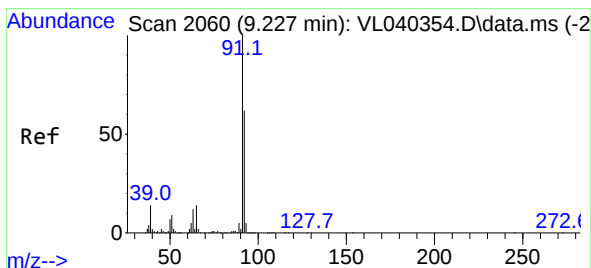
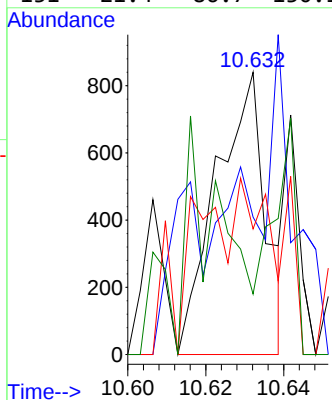
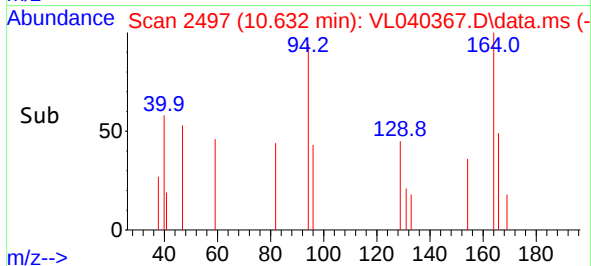


#52
Tetrachloroethene
Concen: 0.011 ppbv
RT: 10.632 min Scan# 2497
Delta R.T. 0.010 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

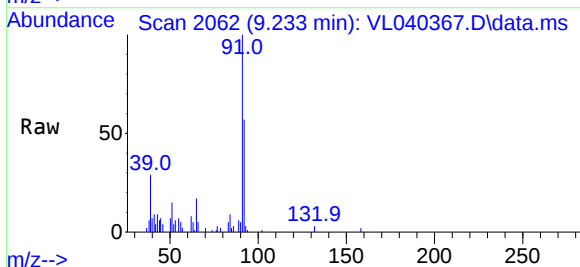
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412



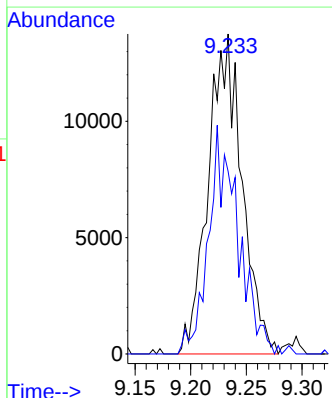
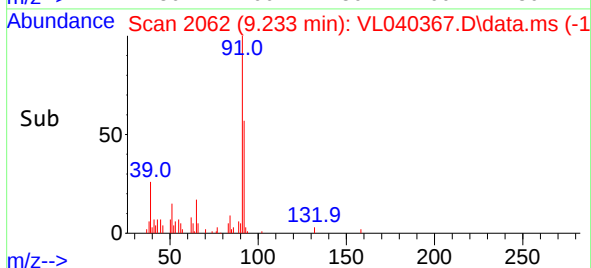
Tgt Ion:164 Resp: 739
Ion Ratio Lower Upper
164 100
166 0.0 105.2 157.8#
129 44.5 90.3 135.5#
131 21.4 86.7 130.1#

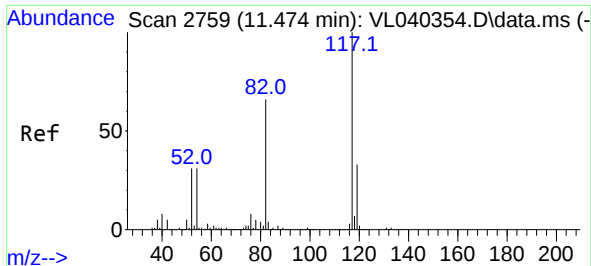


#53
Toluene
Concen: 0.133 ppbv
RT: 9.233 min Scan# 2062
Delta R.T. 0.007 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02



Tgt Ion: 91 Resp: 28975
Ion Ratio Lower Upper
91 100
92 62.8 48.9 73.3

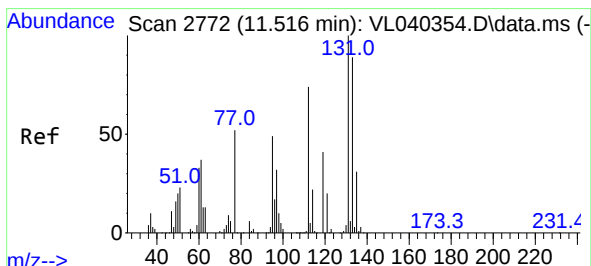
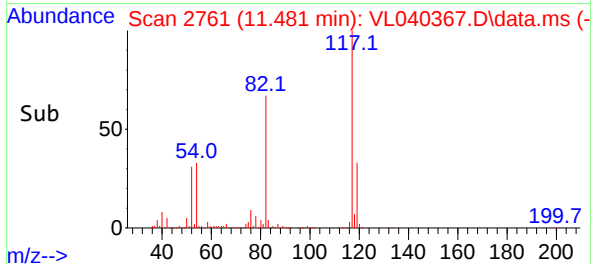
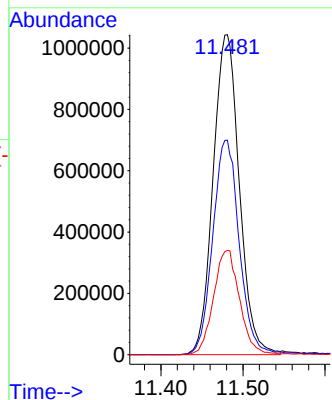
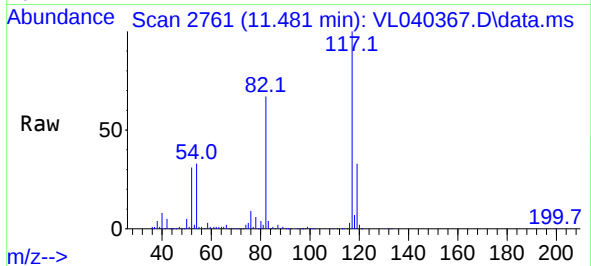




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

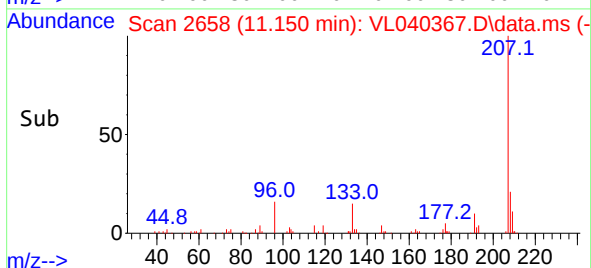
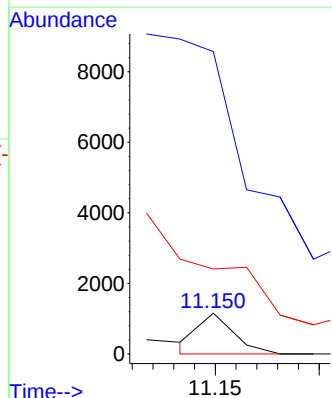
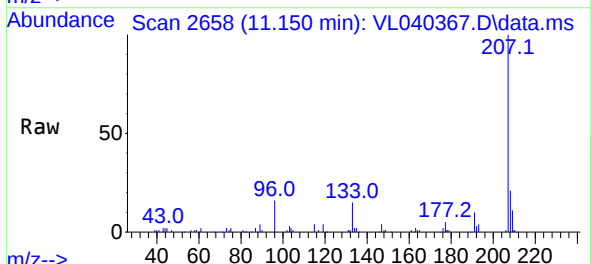
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

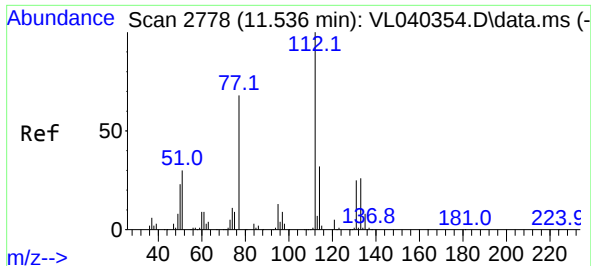
Tgt Ion:117 Resp: 2321295
Ion Ratio Lower Upper
117 100
82 68.5 52.5 78.7
119 32.6 24.3 36.5



#56
1,1,1,2-Tetrachloroethane
Concen: 0.003 ppbv
RT: 11.150 min Scan# 2658
Delta R.T. -0.366 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion:131 Resp: 273
Ion Ratio Lower Upper
131 100
133 0.0 75.3 112.9#
119 0.0 53.9 80.9#

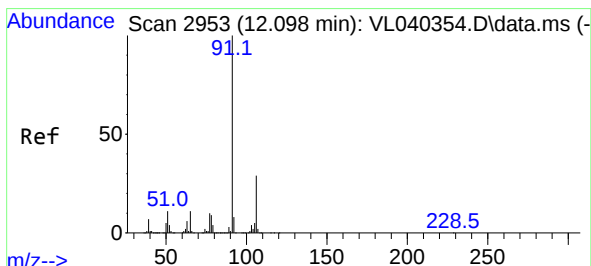
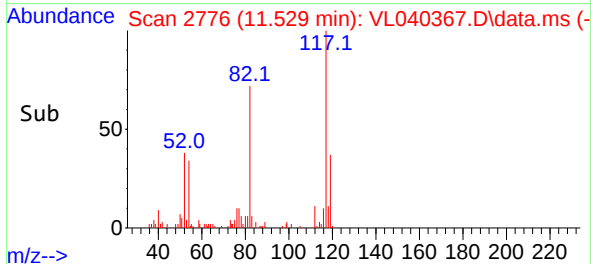
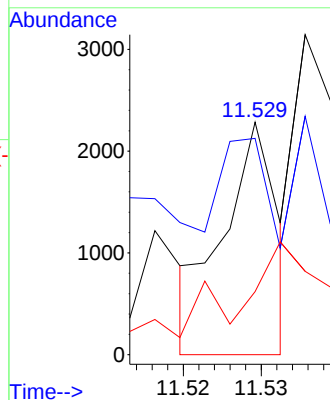
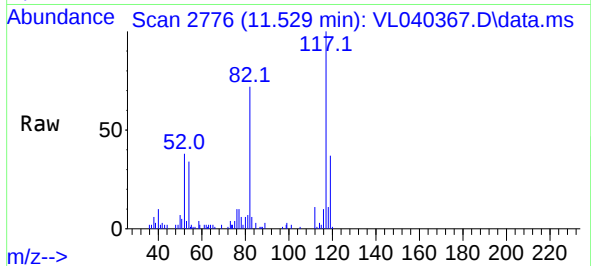




#57
Chlorobenzene
Concen: 0.006 ppbv
RT: 11.529 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

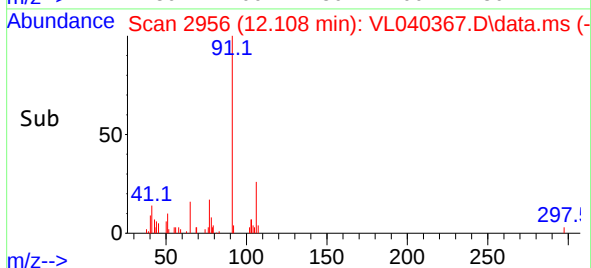
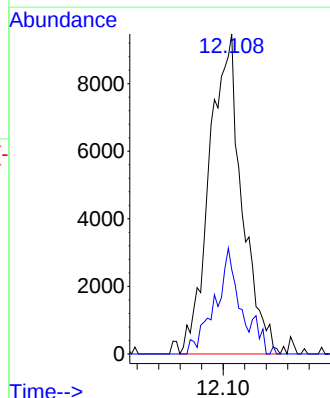
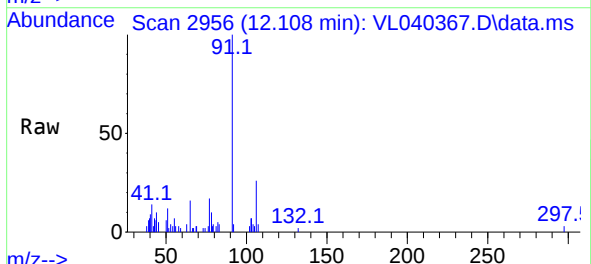
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

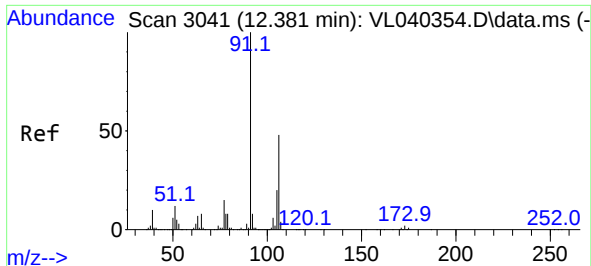
Tgt Ion:	112	Resp:	1102
Ion	Ratio	Lower	Upper
112	100		
77	76.5	55.8	83.8
114	31.9	29.1	35.5



#58
Ethyl Benzene
Concen: 0.069 ppbv
RT: 12.108 min Scan# 2956
Delta R.T. 0.010 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion:	91	Resp:	19805
Ion	Ratio	Lower	Upper
91	100		
106	26.4	23.5	35.3

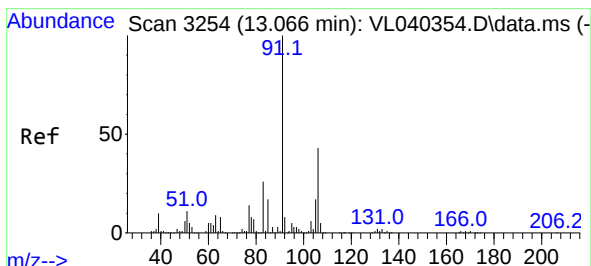
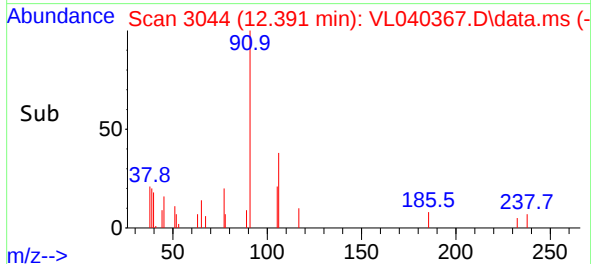
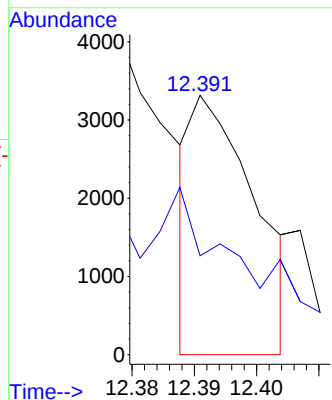
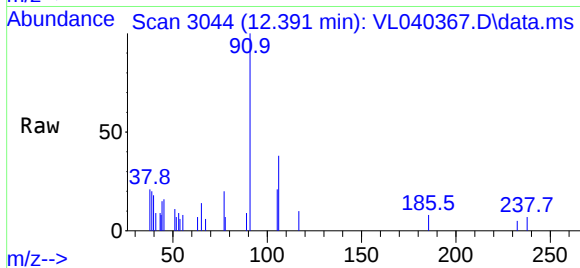




#59
m/p-Xylene
Concen: 0.009 ppbv
RT: 12.391 min Scan# 3044
Delta R.T. 0.010 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

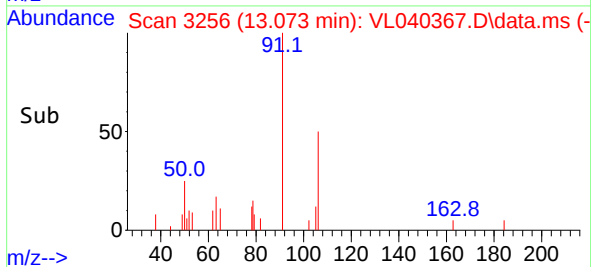
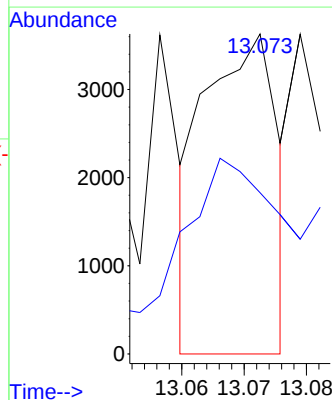
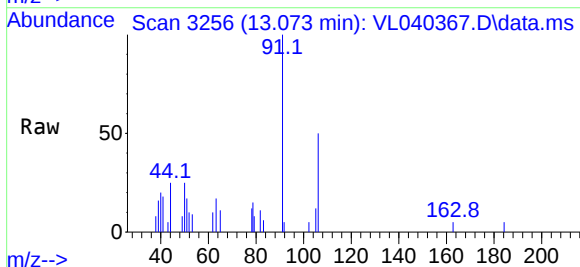
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

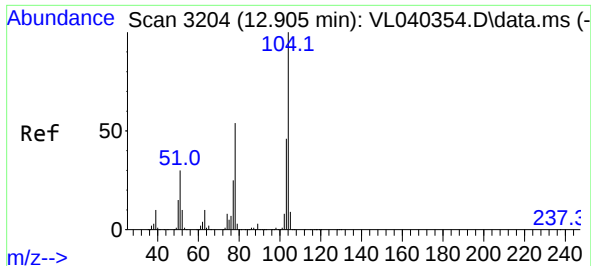
Tgt Ion: 91 Resp: 2327
Ion Ratio Lower Upper
91 100
106 0.0 34.7 52.1#



#60
o-Xylene
Concen: 0.012 ppbv
RT: 13.073 min Scan# 3256
Delta R.T. 0.006 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 91 Resp: 2956
Ion Ratio Lower Upper
91 100
106 131.8 21.9 65.8#

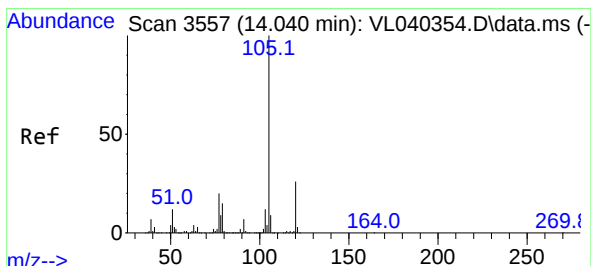
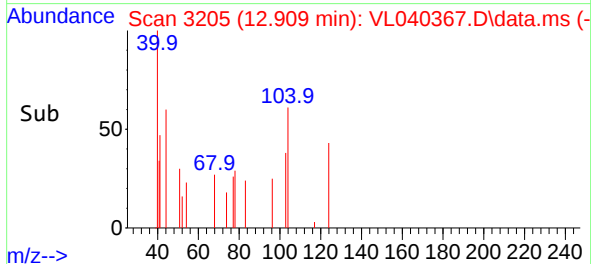
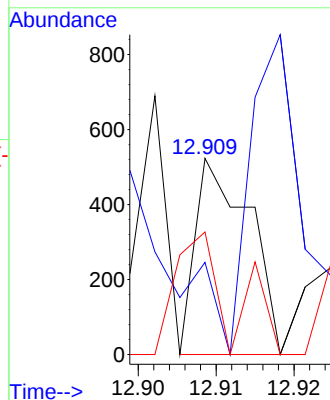
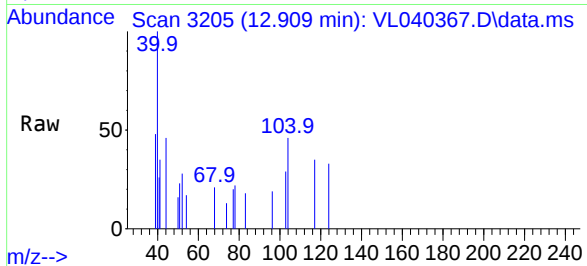




#61
Styrene
Concen: 0.002 ppbv
RT: 12.909 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

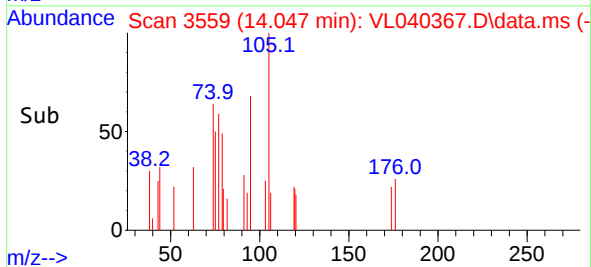
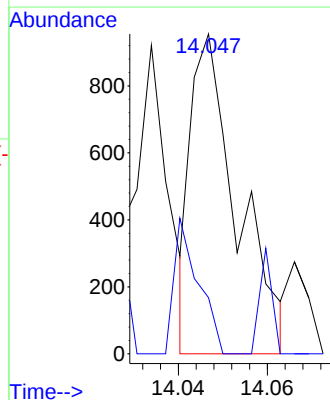
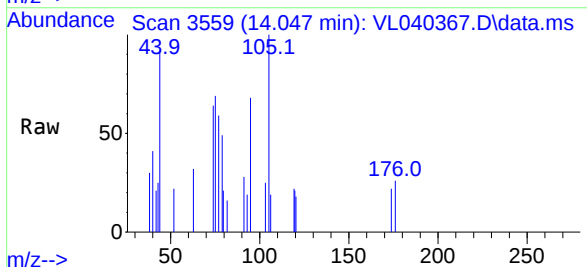
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

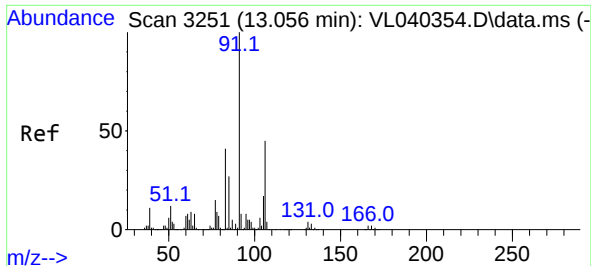
Tgt Ion:104 Resp: 253
Ion Ratio Lower Upper
104 100
78 0.0 43.4 65.0#
103 98.0 37.0 55.4#



#62
Isopropylbenzene
Concen: 0.002 ppbv
RT: 14.047 min Scan# 3559
Delta R.T. 0.007 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion:105 Resp: 693
Ion Ratio Lower Upper
105 100
120 0.0 19.9 29.9#

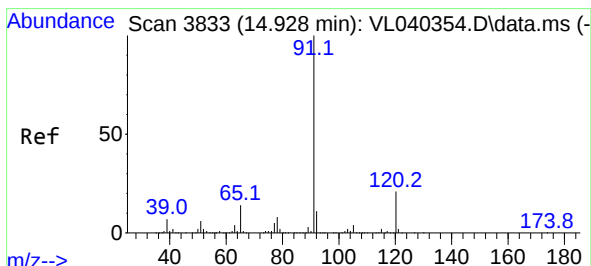
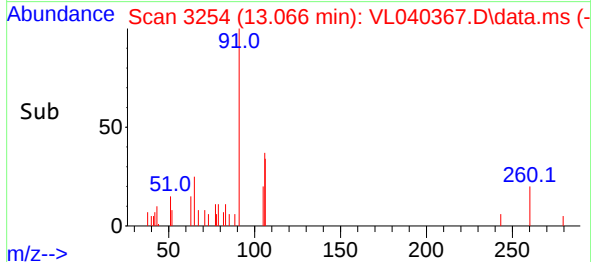
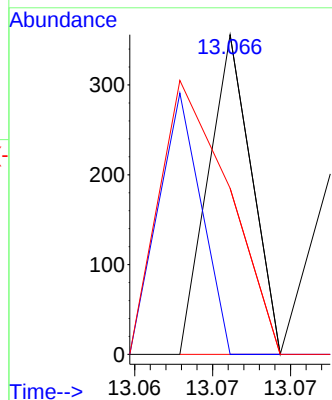
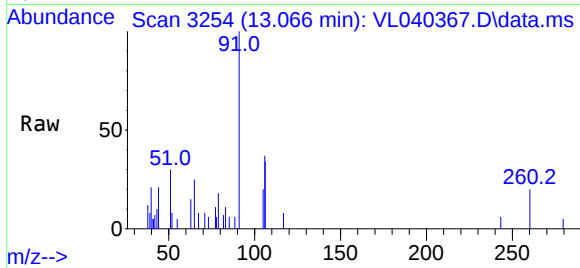




#63
1,1,2,2-Tetrachloroethane
Concen: 0.001 ppbv
RT: 13.066 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

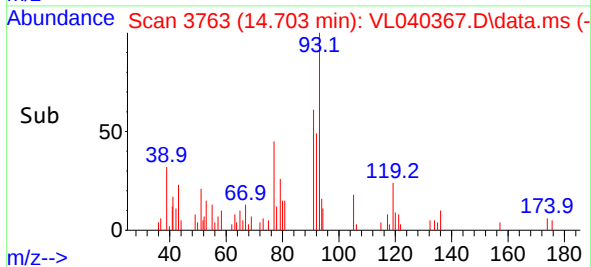
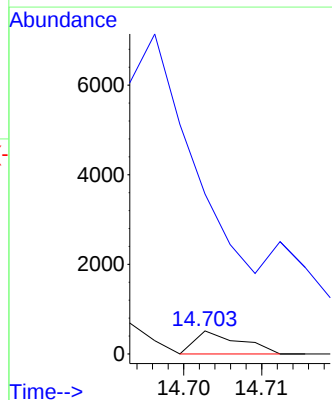
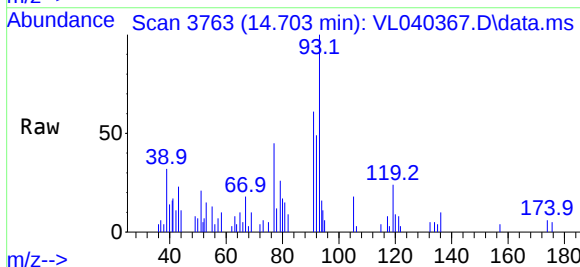
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

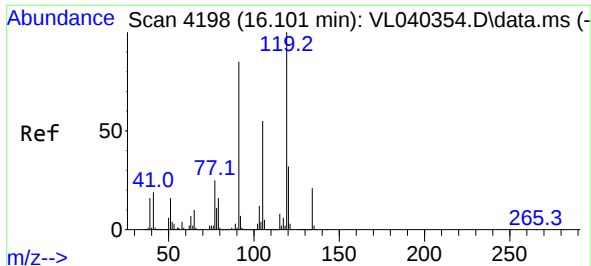
Tgt Ion: 83 Resp: 69
Ion Ratio Lower Upper
83 100
131 0.0 4.3 13.1#
85 137.7 32.9 98.6#



#64
n-propylbenzene
Concen: 0.002 ppbv
RT: 14.703 min Scan# 3763
Delta R.T. -0.225 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 120 Resp: 205
Ion Ratio Lower Upper
120 100
91 582.4 397.4 596.0

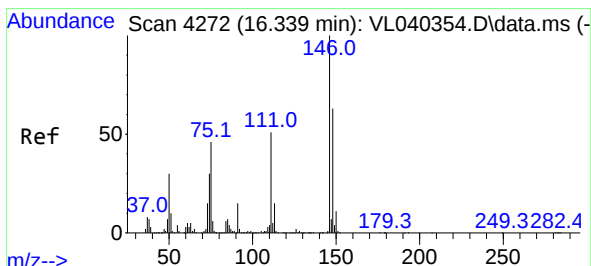
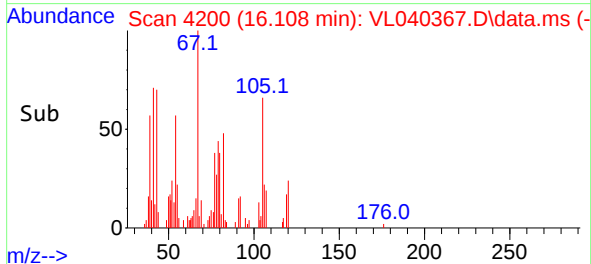
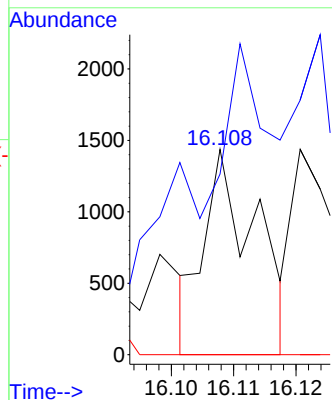
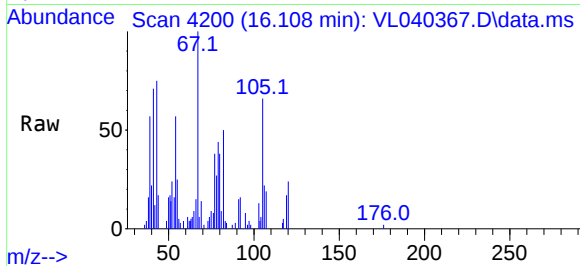




#65
tert-Butylbenzene
Concen: 0.003 ppbv
RT: 16.108 min Scan# 4198
Delta R.T. 0.007 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

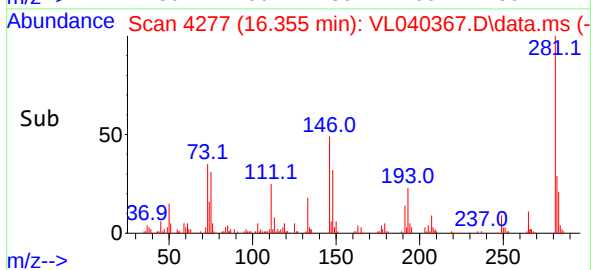
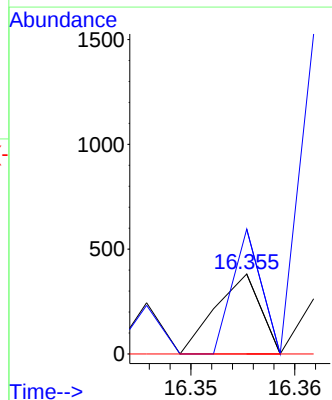
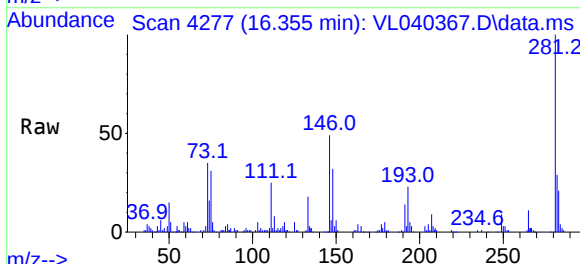
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

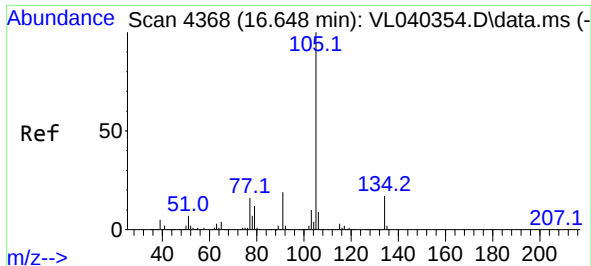
Tgt Ion:119 Resp: 829
Ion Ratio Lower Upper
119 100
91 0.0 70.1 105.1#
134 0.0 15.6 23.4#



#66
Benzyl Chloride
Concen: 0.006 ppbv
RT: 16.355 min Scan# 4277
Delta R.T. 0.016 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 91 Resp: 115
Ion Ratio Lower Upper
91 100
126 0.0 12.3 18.5#
128 0.0 4.1 6.1#





#67

sec-Butylbenzene

Concen: 0.001 ppbv

RT: 16.651 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

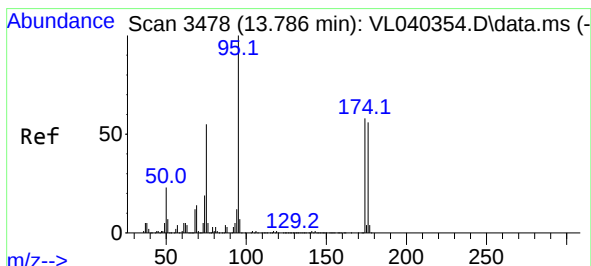
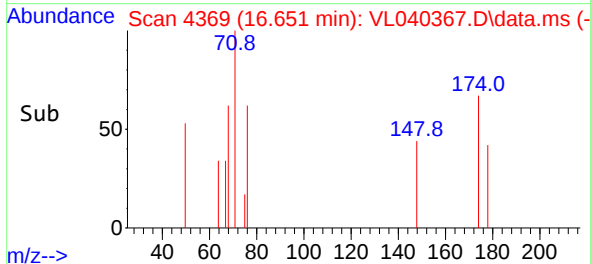
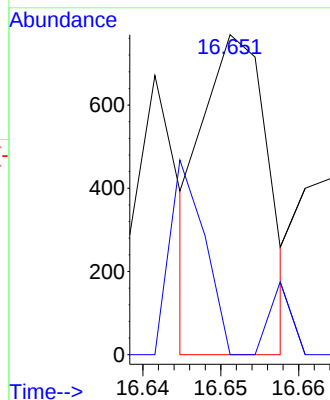
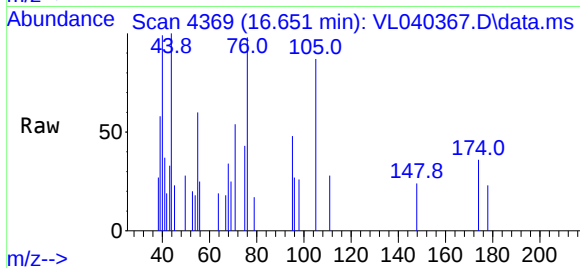
SV-24-20230412

Tgt Ion:105 Resp: 448

Ion Ratio Lower Upper

105 100

134 0.0 13.8 20.6#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.865 ppbv

RT: 13.790 min Scan# 3479

Delta R.T. 0.003 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

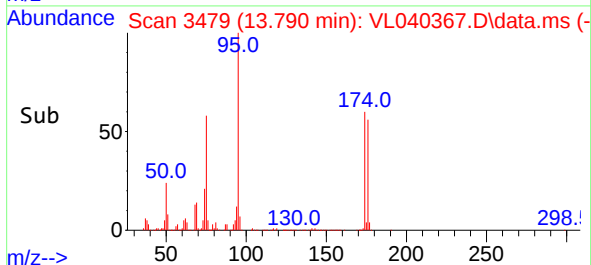
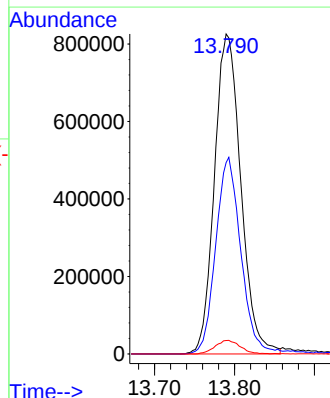
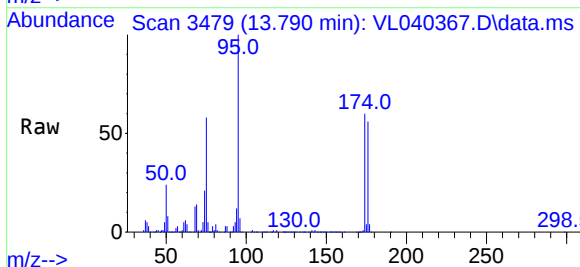
Tgt Ion: 95 Resp: 1893548

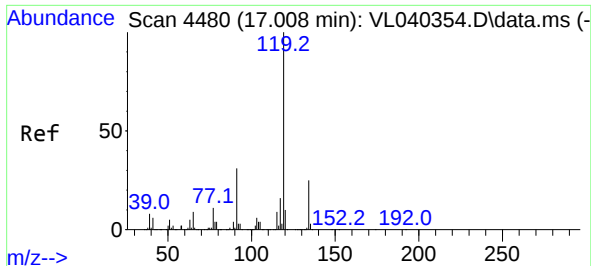
Ion Ratio Lower Upper

95 100

174 60.0 47.2 70.8

175 4.1 3.5 5.3





#69

p-Isopropyltoluene

Concen: 0.010 ppbv

RT: 17.027 min Scan# 4480

Delta R.T. 0.019 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

SV-24-20230412

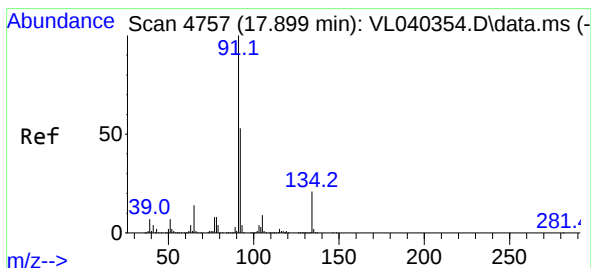
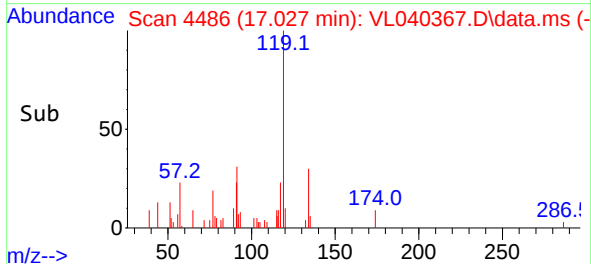
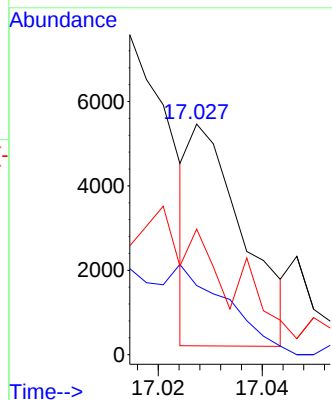
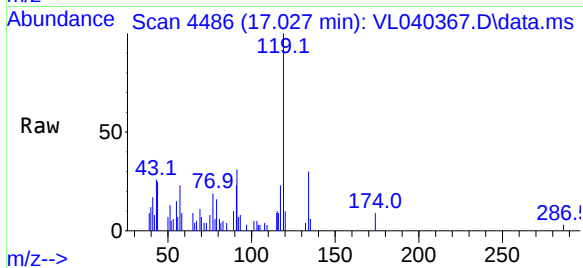
Tgt Ion:119 Resp: 3748

Ion Ratio Lower Upper

119 100

134 0.0 20.2 30.4#

91 0.0 25.7 38.5#



#70

n-Butylbenzene

Concen: 0.002 ppbv

RT: 17.905 min Scan# 4759

Delta R.T. 0.006 min

Lab File: VL040367.D

Acq: 13 Apr 2023 20:02

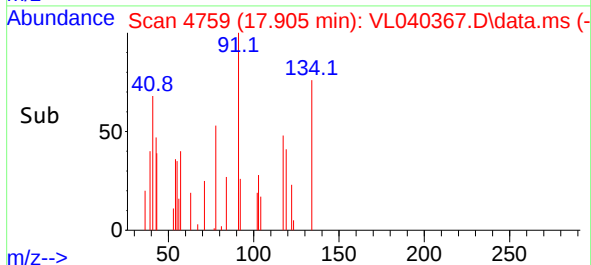
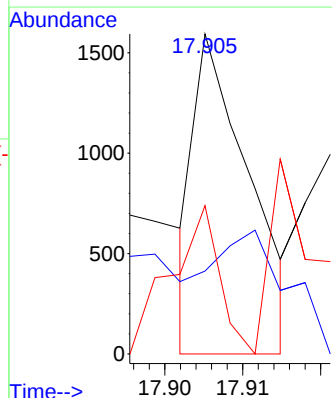
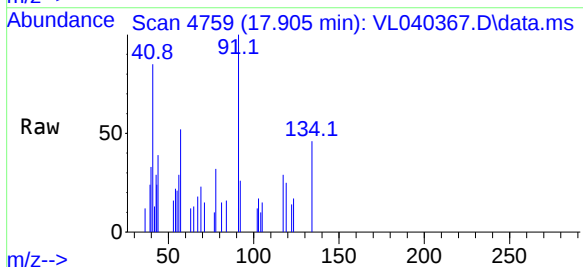
Tgt Ion: 91 Resp: 779

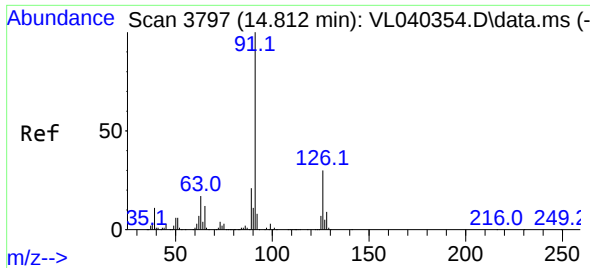
Ion Ratio Lower Upper

91 100

92 0.0 43.0 64.4#

134 71.2 16.6 25.0#

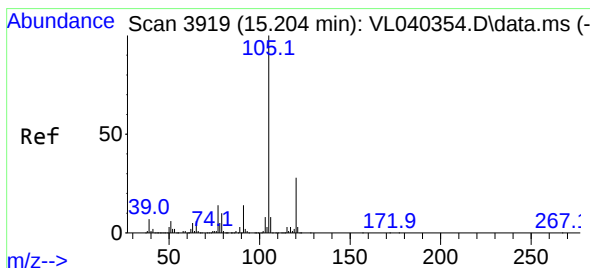
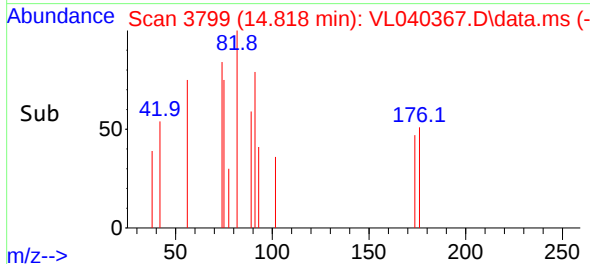
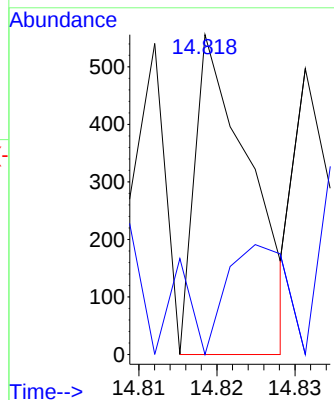
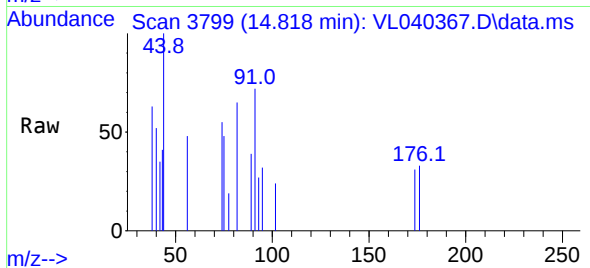




#71
2-Chlorotoluene
Concen: 0.001 ppbv
RT: 14.818 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

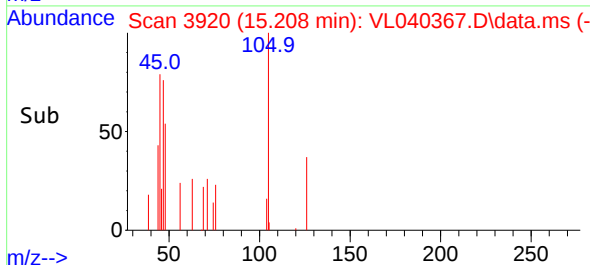
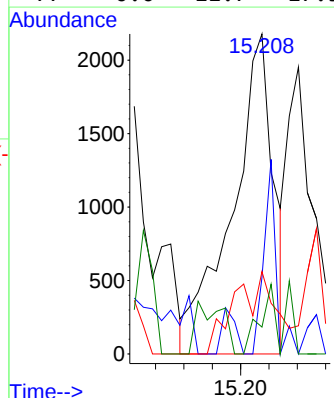
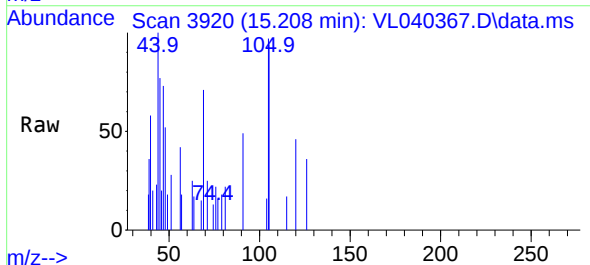
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

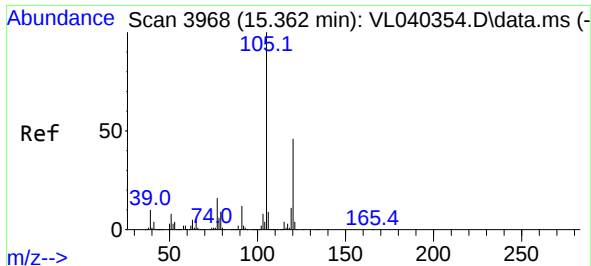
Tgt Ion: 91 Resp: 277
Ion Ratio Lower Upper
91 100
126 0.0 11.8 47.4#



#72
4-Ethyltoluene
Concen: 0.008 ppbv
RT: 15.208 min Scan# 3920
Delta R.T. 0.003 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion: 105 Resp: 2187
Ion Ratio Lower Upper
105 100
120 116.3 23.0 34.6#
91 0.0 11.3 16.9#
77 0.0 11.7 17.5#

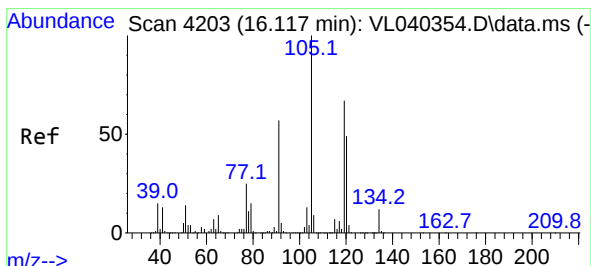
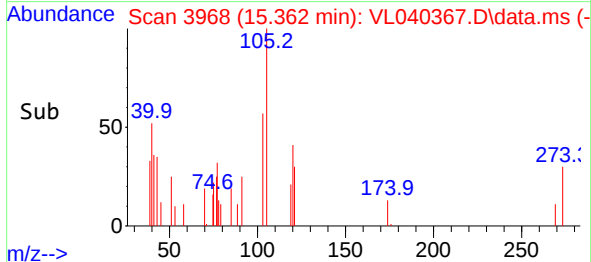
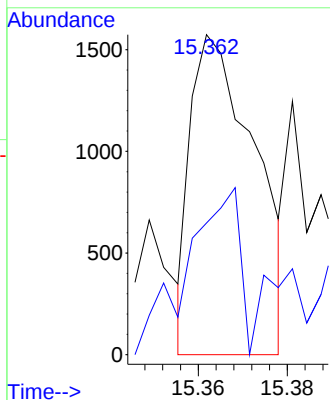
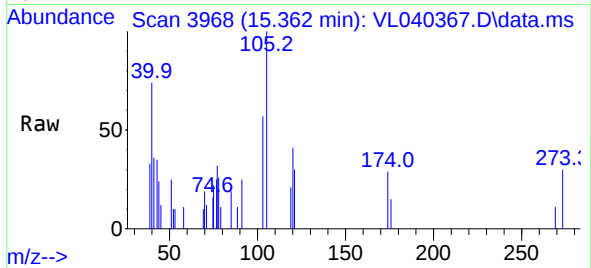




#73
1,3,5-Trimethylbenzene
Concen: 0.006 ppbv
RT: 15.362 min Scan# 3968
Delta R.T. 0.000 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

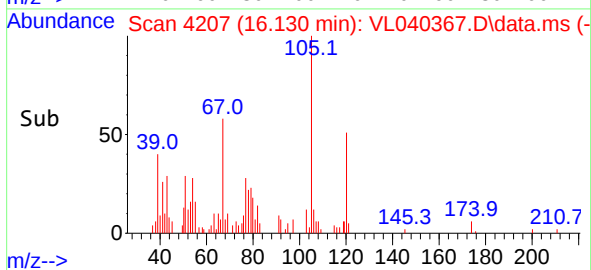
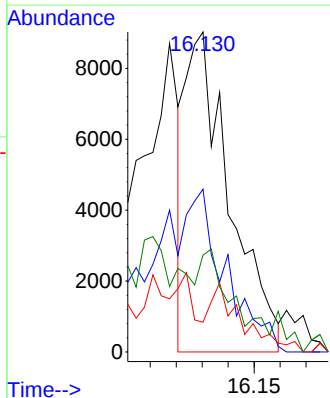
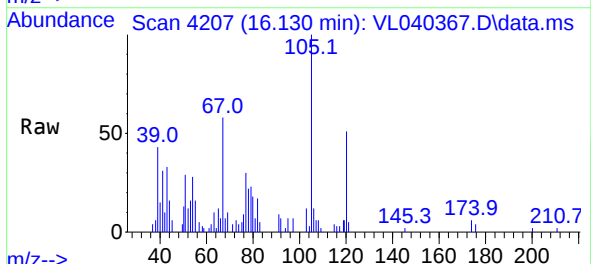
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

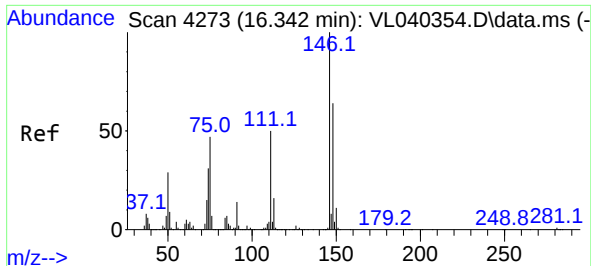
Tgt Ion:105 Resp: 1581
Ion Ratio Lower Upper
105 100
120 37.8 36.9 55.3



#74
1,2,4-Trimethylbenzene
Concen: 0.036 ppbv
RT: 16.130 min Scan# 4207
Delta R.T. 0.013 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion:105 Resp: 10702
Ion Ratio Lower Upper
105 100
120 53.9 38.9 58.3
91 7.2 46.0 69.0#
77 16.4 20.0 30.0#

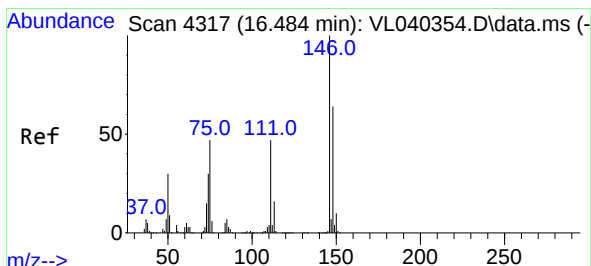
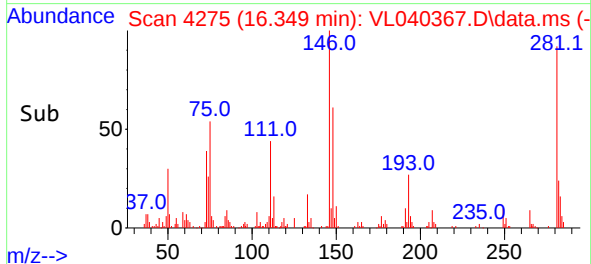
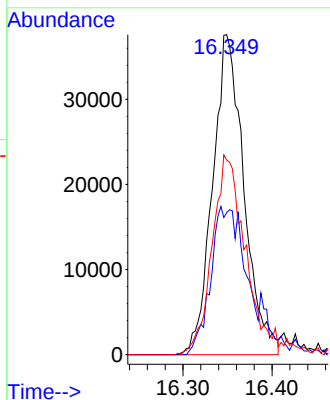
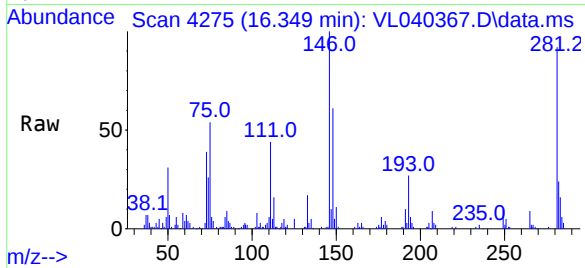




#75
1,3-Dichlorobenzene
Concen: 0.571 ppbv
RT: 16.349 min Scan# 4275
Delta R.T. 0.006 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

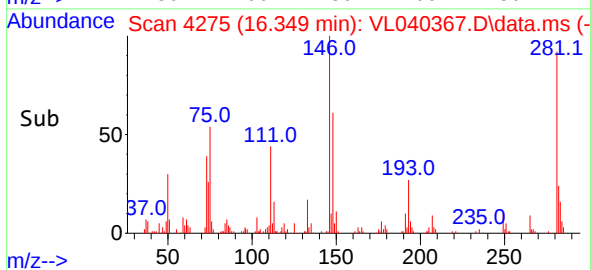
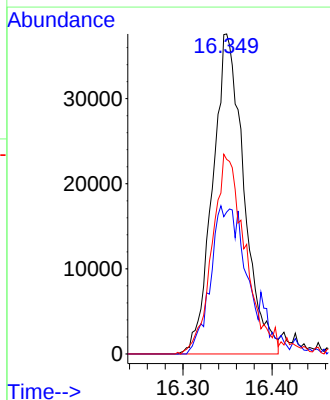
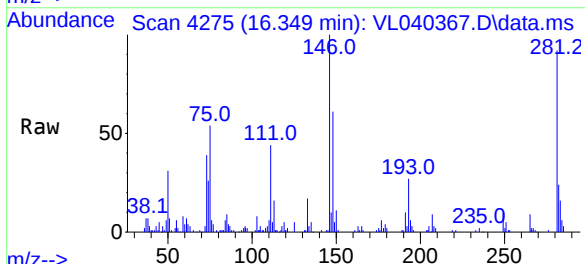
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

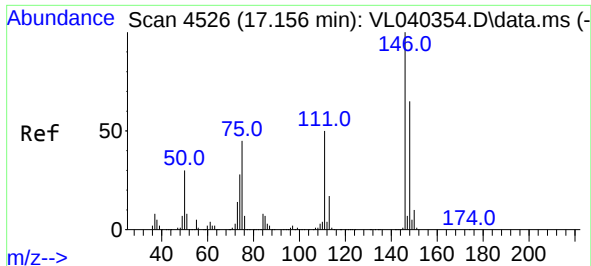
Tgt Ion:	146	Resp:	91826
Ion Ratio	Lower	Upper	
146	100		
111	58.8	24.6	74.0
148	68.2	32.1	96.3



#76
1,4-Dichlorobenzene
Concen: 0.578 ppbv
RT: 16.349 min Scan# 4275
Delta R.T. -0.135 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion:	146	Resp:	91826
Ion Ratio	Lower	Upper	
146	100		
111	58.6	23.8	71.4
148	68.2	32.4	97.2

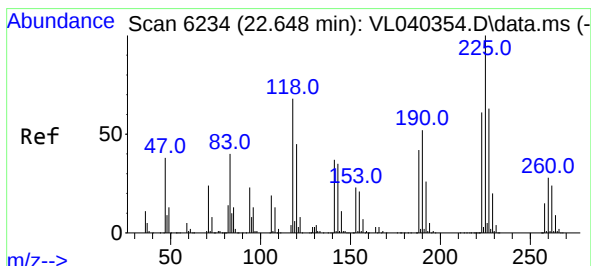
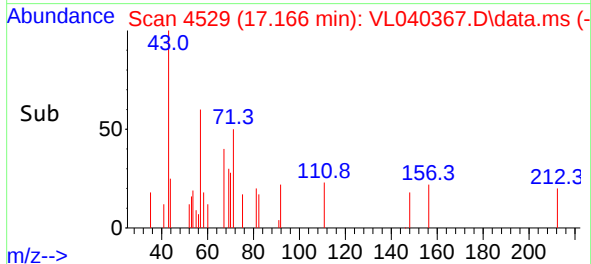
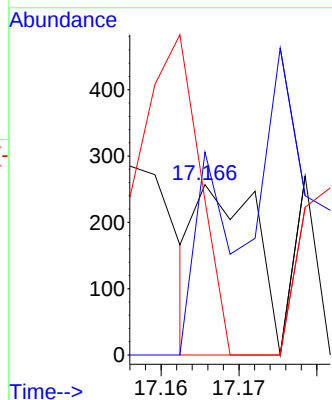
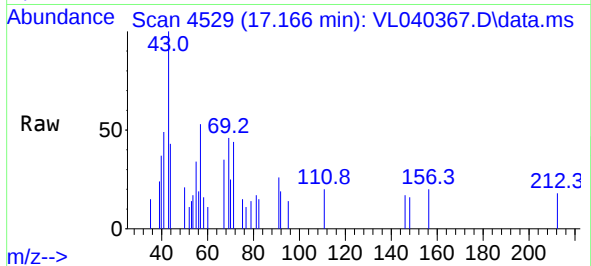




#77
1,2-Dichlorobenzene
Concen: 0.001 ppbv
RT: 17.166 min Scan# 4526
Delta R.T. 0.010 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

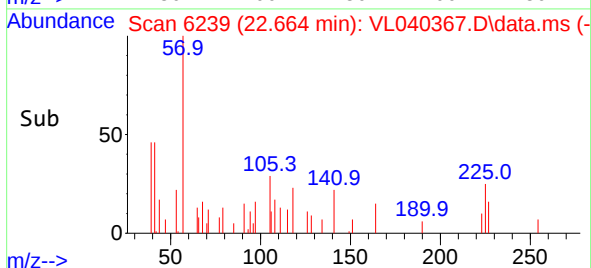
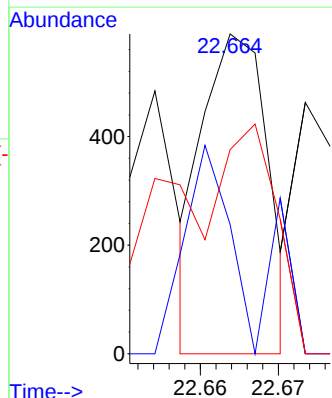
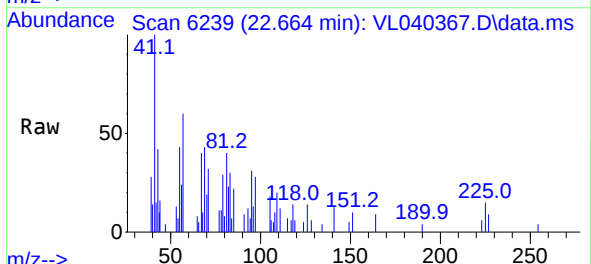
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

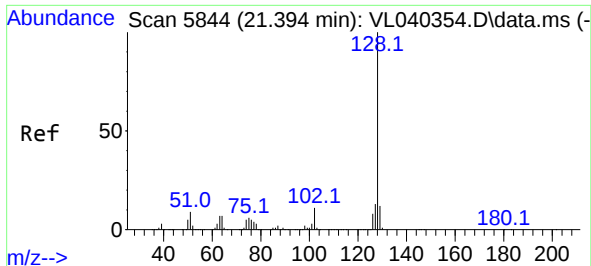
Tgt Ion:146 Resp: 137
Ion Ratio Lower Upper
146 100
111 0.0 25.4 76.0#
148 291.2 32.0 96.2#



#78
Hexachloro-1,3-Butadiene
Concen: 0.003 ppbv
RT: 22.664 min Scan# 6239
Delta R.T. 0.016 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion:225 Resp: 342
Ion Ratio Lower Upper
225 100
223 71.6 50.7 76.1
227 154.4 51.0 76.4#

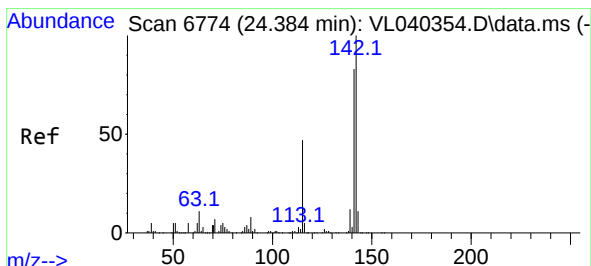
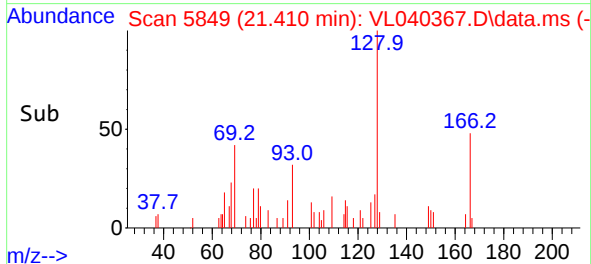
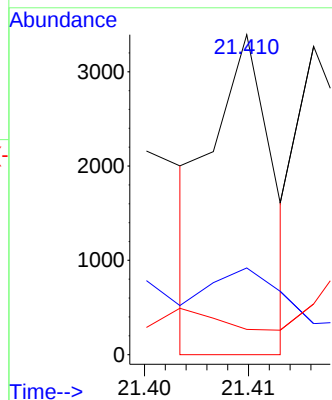
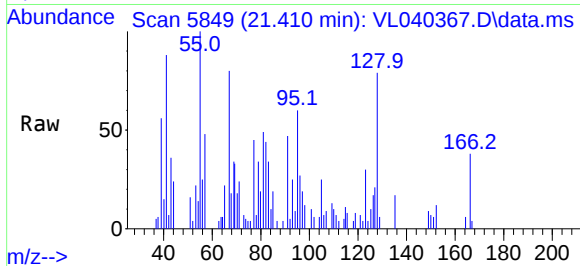




#79
Naphthalene
Concen: 0.007 ppbv
RT: 21.410 min Scan# 51
Delta R.T. 0.016 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

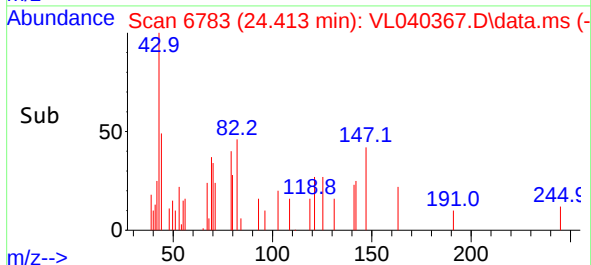
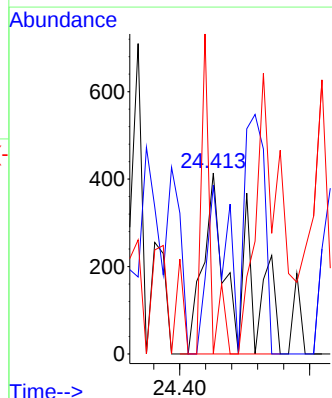
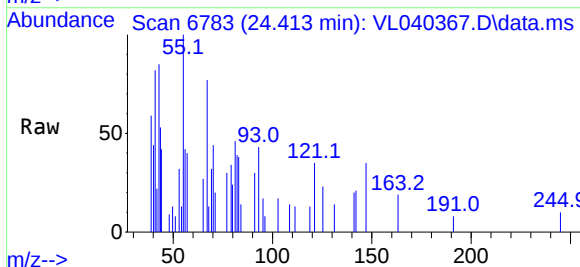
Instrument :
MSVOA_L
ClientSampleId :
SV-24-20230412

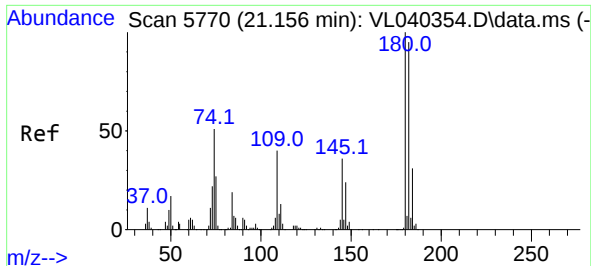
Tgt Ion:128 Resp: 1381
Ion Ratio Lower Upper
128 100
127 22.3 10.0 15.0#
129 0.4 9.4 14.0#



#80
Naphthalene,2-methyl-
Concen: 0.006 ppbv
RT: 24.413 min Scan# 6783
Delta R.T. 0.029 min
Lab File: VL040367.D
Acq: 13 Apr 2023 20:02

Tgt Ion:142 Resp: 367
Ion Ratio Lower Upper
142 100
141 0.0 65.1 97.7#
115 109.0 36.5 54.7#





#81

1,2,4-Trichlorobenzene

Concen: 0.004 ppbv

RT: 21.162 min Scan# 51

Delta R.T. 0.007 min

Lab File: VL040367.D

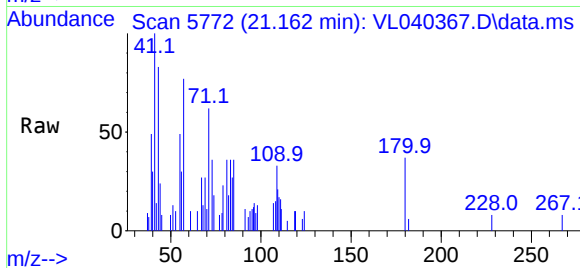
Acq: 13 Apr 2023 20:02

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion:180 Resp: 471

Ion Ratio Lower Upper

180 100

182 0.0 77.7 116.5#

184 0.0 24.2 36.2#

