

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW110223\
 Data File : VW032829.D
 Acq On : 01 Nov 2023 17:22
 Operator : SY/MD
 Sample : 05168-01DL 2X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 02 01:32:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 02 01:31:24 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.538	114	127797	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.786	117	145554	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	68173	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	39517	3.765	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.400%
7) Chloroethane-d5	1.535	69	41692	4.674	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.400%
11) 1,1-Dichloroethene-d2	2.059	65	18571	3.942	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.800%
20) 2-Butanone-d5	3.805	46	97889	43.189	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.380%
24) Chloroform-d	4.252	84	86788	4.980	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.600%
26) 1,2-Dichloroethane-d4	4.947	65	44712	5.196	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.000%
32) Benzene-d6	4.963	84	166021	4.791	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.800%
36) 1,2-Dichloropropane-d6	5.992	67	51084	5.091	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.800%
41) Toluene-d8	7.246	98	151116	4.302	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.000%
43) trans-1,3-Dichloroprop...	7.561	79	20197	4.561	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.200%
46) 2-Hexanone-d5	8.030	63	84046	47.893	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	95.780%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	45749	5.127	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.600%
66) 1,2-Dichlorobenzene-d4	11.564	152	61623	5.536	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.800%
Target Compounds						Qvalue
5) Vinyl chloride	1.285	62	22136	1.441	ug/L	97
12) 1,1-Dichloroethene	2.069	96	96428	8.442	ug/L	85
16) Methylene chloride	2.449	84	103142	7.337	ug/L	99
18) trans-1,2-Dichloroethene	2.696	96	114372	10.126	ug/L	99
22) cis-1,2-Dichloroethene	3.818	96	21801	1.904	ug/L	92
25) Chloroform	4.281	83	27079	1.244	ug/L	93
27) 1,2-Dichloroethane	5.046	62	86335	6.381	ug/L #	94
29) 1,1,1-Trichloroethane	4.516	97	36010	1.918	ug/L	99
31) Carbon tetrachloride	4.738	117	26591	1.628	ug/L	97
33) Benzene	5.014	78	155657	3.393	ug/L	100
34) Trichloroethene	5.837	95	20301	1.656	ug/L	90
35) Methylcyclohexane	5.992	83	13006	0.710	ug/L #	20
37) 1,2-Dichloropropane	6.095	63	19051	1.721	ug/L #	96
38) Bromodichloromethane	6.439	83	10644	0.651	ug/L	98
42) Toluene	7.316	91	236935	4.445	ug/L	99
45) 1,1,2-Trichloroethane	7.770	97	61535	6.581	ug/L	97
47) Tetrachloroethene	7.905	164	101010	9.325	ug/L	94
49) Dibromochloromethane	7.905	129	88080	7.942	ug/L #	11
51) Chlorobenzene	8.815	112	235218	6.679	ug/L	98

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

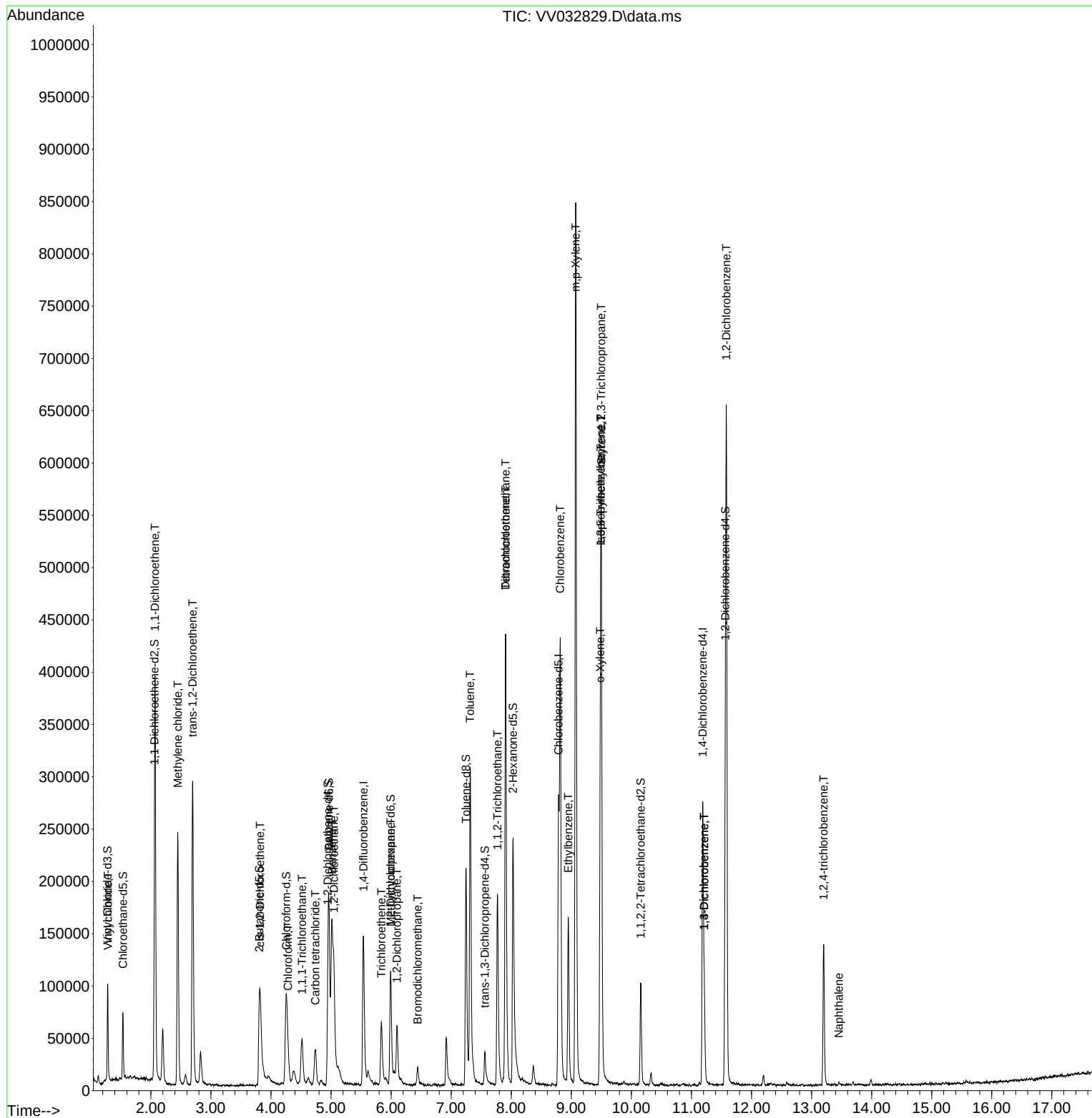
52) Ethylbenzene	8.950	91	112595	2.009	ug/L	97
53) m,p-Xylene	9.072	106	242290	11.418	ug/L	100
54) o-Xylene	9.480	106	66386	3.226	ug/L	99
55) Styrene	9.500	104	255461	7.491	ug/L	97
60) Isopropylbenzene	9.487	105	50093	1.083	ug/L #	1
61) 1,2,3-Trichloropropane	9.496	75	13539	1.878	ug/L #	1
62) 1,3,5-Trimethylbenzene	9.487	105	50093	1.324	ug/L #	30
64) 1,3-Dichlorobenzene	11.213	146	35452	1.428	ug/L	96
65) 1,4-Dichlorobenzene	11.213	146	35452	1.439	ug/L	97
67) 1,2-Dichlorobenzene	11.580	146	232370	10.178	ug/L	99
70) 1,2,4-trichlorobenzene	13.200	180	40336	2.683	ug/L	99
71) Naphthalene	13.454	128	1647	0.069	ug/L #	92

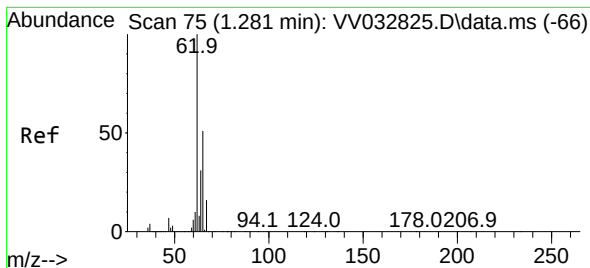
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.441 ug/L

RT: 1.285 min Scan# 75

Delta R.T. 0.003 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

Instrument :

MSVOA_V

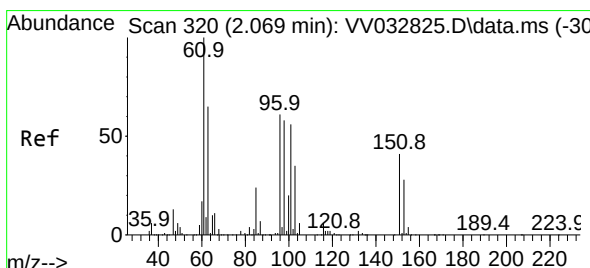
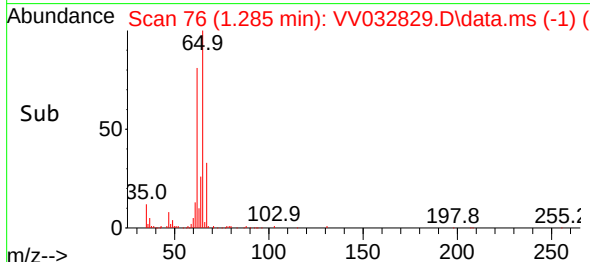
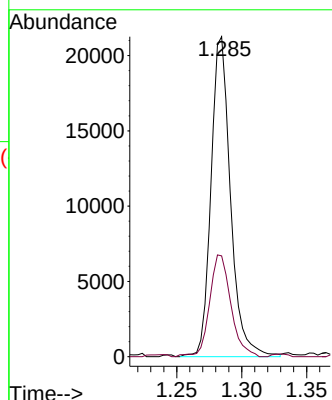
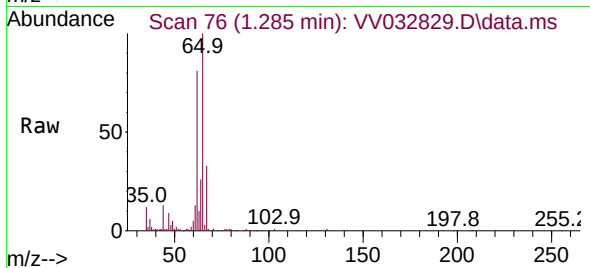
ClientSampleId :

Tgt Ion: 62 Resp: 22136

Ion Ratio Lower Upper

62 100

64 31.5 23.2 43.0



#12

1,1-Dichloroethene

Concen: 8.442 ug/L

RT: 2.069 min Scan# 320

Delta R.T. -0.000 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

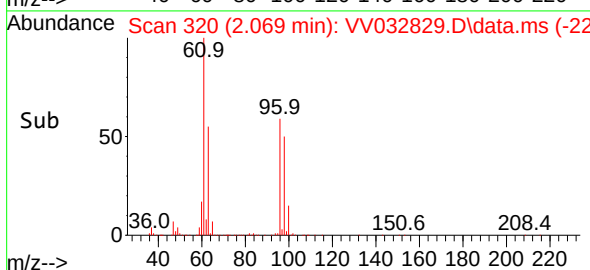
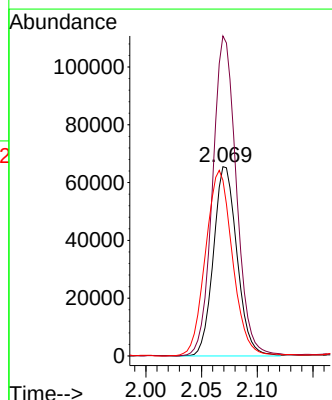
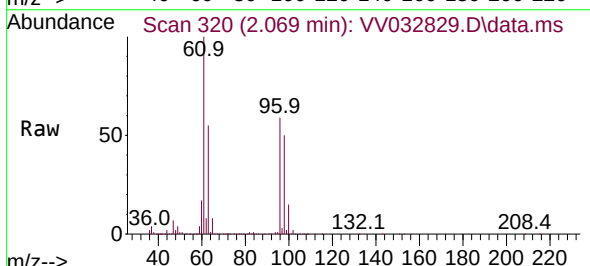
Tgt Ion: 96 Resp: 96428

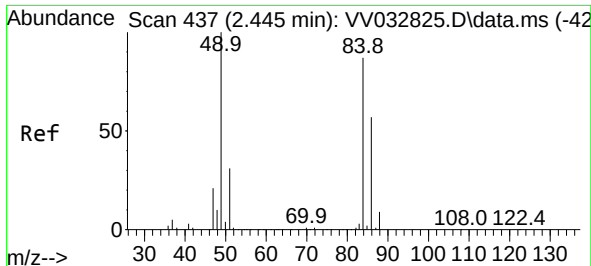
Ion Ratio Lower Upper

96 100

61 169.0 122.3 227.1

63 92.8 89.4 166.0

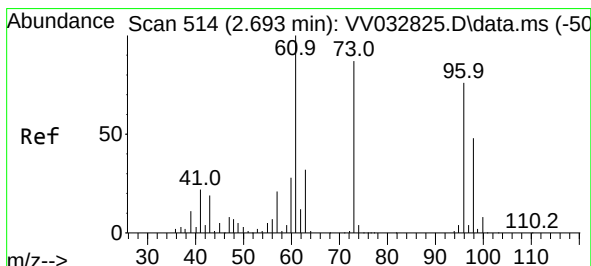
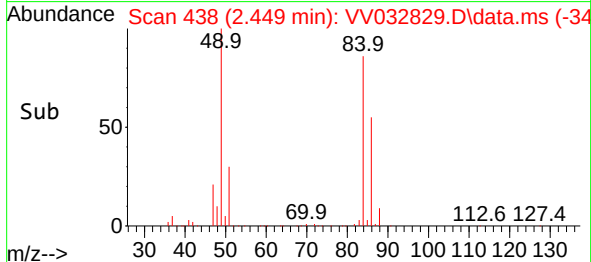
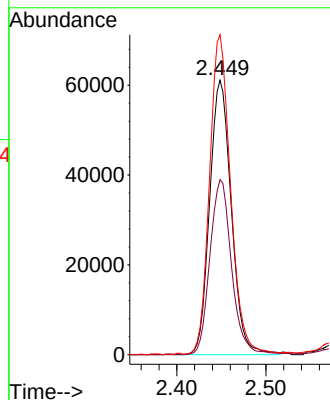
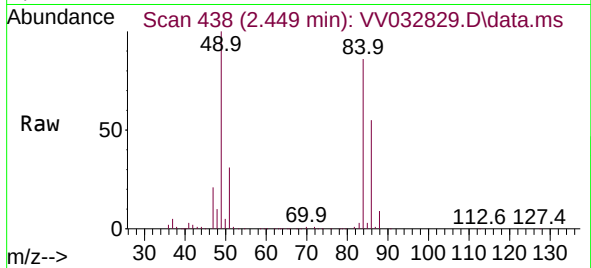




#16
Methylene chloride
Concen: 7.337 ug/L
RT: 2.449 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

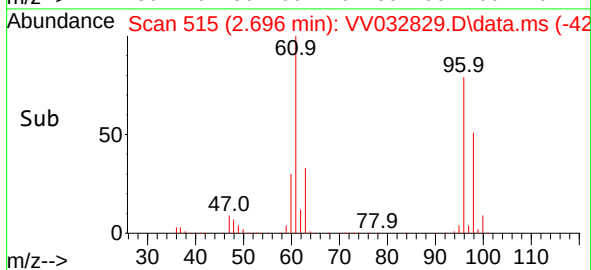
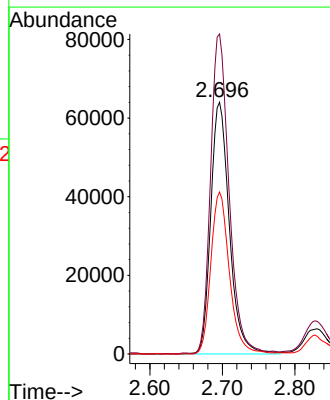
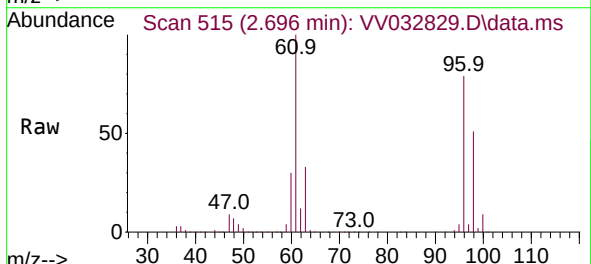
Instrument :
MSVOA_V
ClientSampleId :

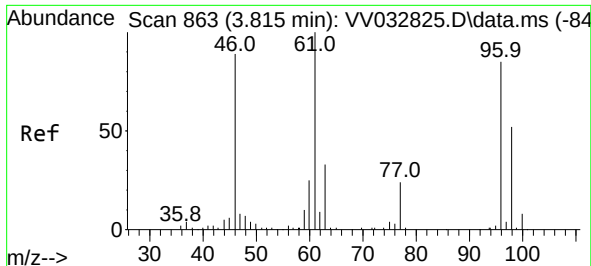
Tgt Ion: 84 Resp: 103142
Ion Ratio Lower Upper
84 100
86 63.8 44.8 83.2
49 116.6 81.1 150.5



#18
trans-1,2-Dichloroethene
Concen: 10.126 ug/L
RT: 2.696 min Scan# 515
Delta R.T. 0.003 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

Tgt Ion: 96 Resp: 114372
Ion Ratio Lower Upper
96 100
61 127.1 88.7 164.7
98 64.4 44.4 82.4





#22

cis-1,2-Dichloroethene

Concen: 1.904 ug/L

RT: 3.818 min Scan# 80

Delta R.T. 0.003 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

Instrument :

MSVOA_V

ClientSampleId :

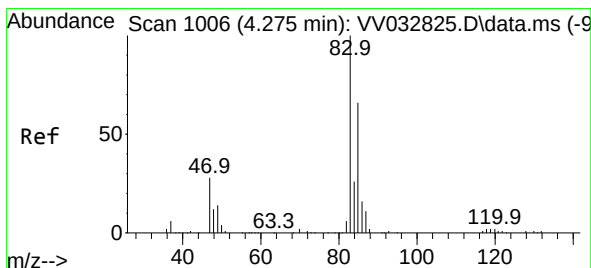
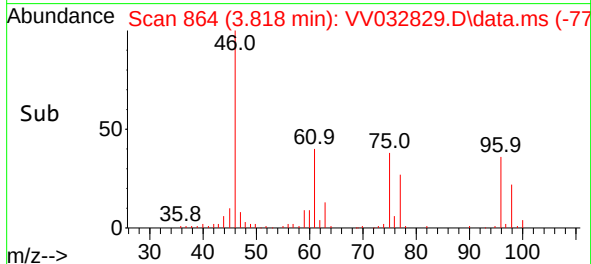
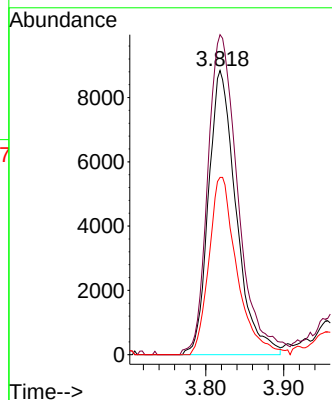
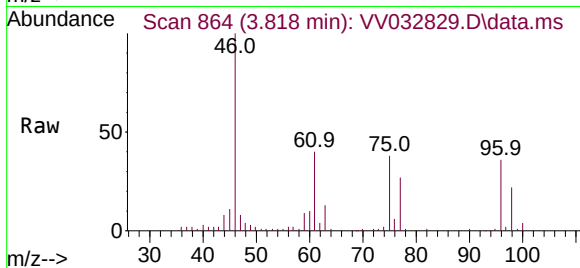
Tgt Ion: 96 Resp: 21801

Ion Ratio Lower Upper

96 100

61 112.6 87.7 162.9

98 62.4 45.0 83.6



#25

Chloroform

Concen: 1.244 ug/L

RT: 4.281 min Scan# 1008

Delta R.T. 0.006 min

Lab File: VV032829.D

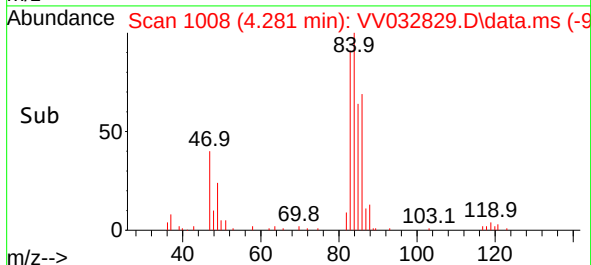
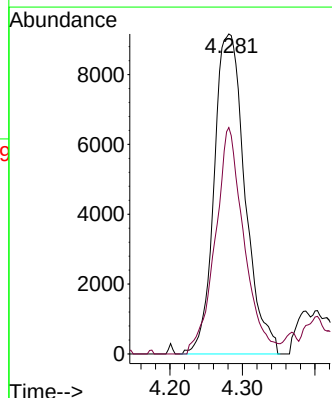
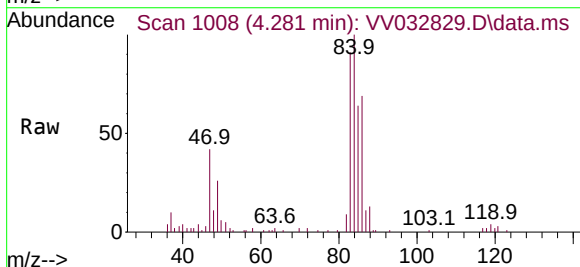
Acq: 01 Nov 2023 17:22

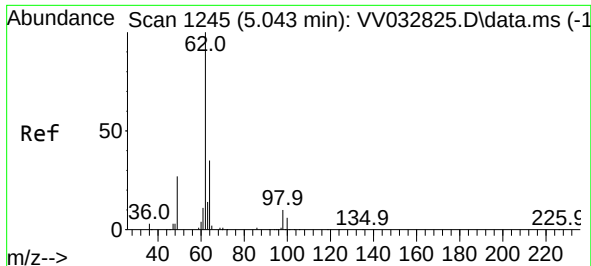
Tgt Ion: 83 Resp: 27079

Ion Ratio Lower Upper

83 100

85 70.7 45.7 84.9





#27

1,2-Dichloroethane

Concen: 6.381 ug/L

RT: 5.046 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

Instrument :

MSVOA_V

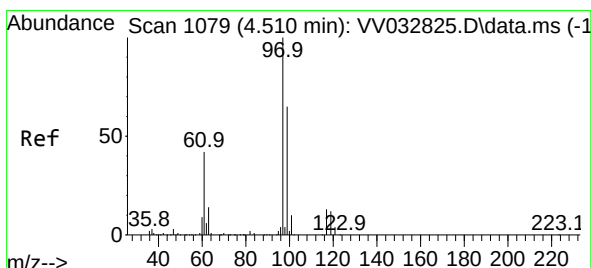
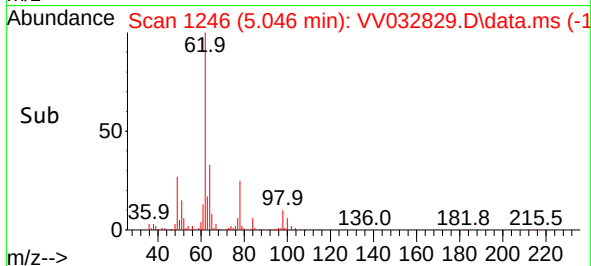
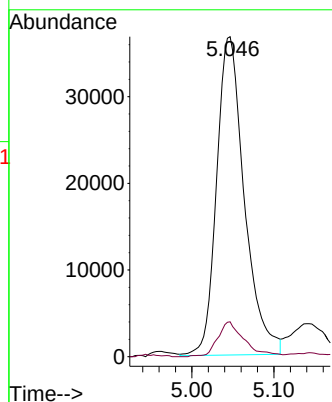
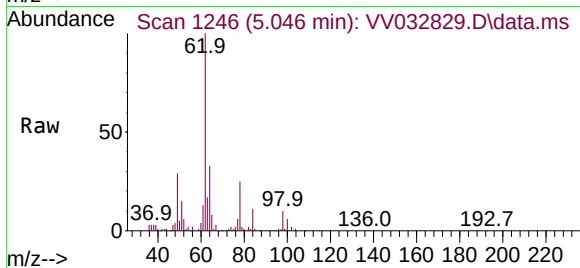
ClientSampleId :

Tgt Ion: 62 Resp: 86335

Ion Ratio Lower Upper

62 100

98 10.9 7.0 10.4#



#29

1,1,1-Trichloroethane

Concen: 1.918 ug/L

RT: 4.516 min Scan# 1081

Delta R.T. 0.006 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

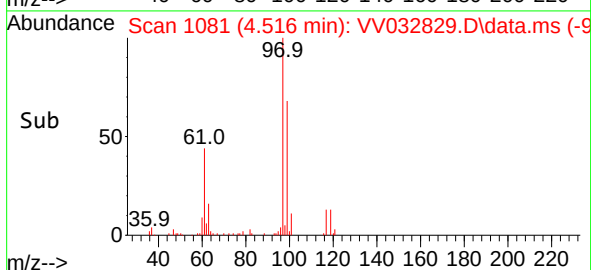
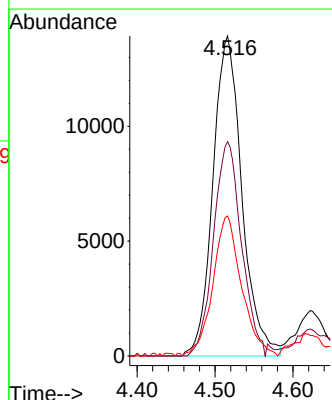
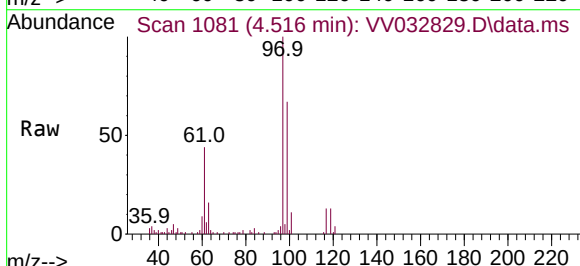
Tgt Ion: 97 Resp: 36010

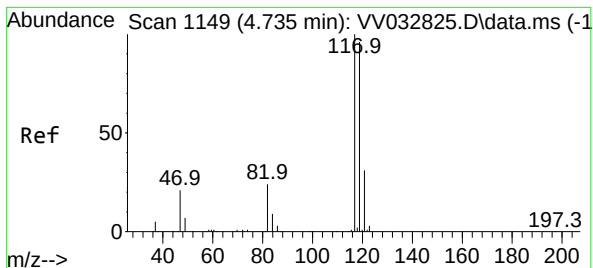
Ion Ratio Lower Upper

97 100

99 64.4 51.4 77.0

61 43.3 36.1 54.1





#31

Carbon tetrachloride

Concen: 1.628 ug/L

RT: 4.738 min Scan# 1149

Delta R.T. 0.003 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

Instrument :

MSVOA_V

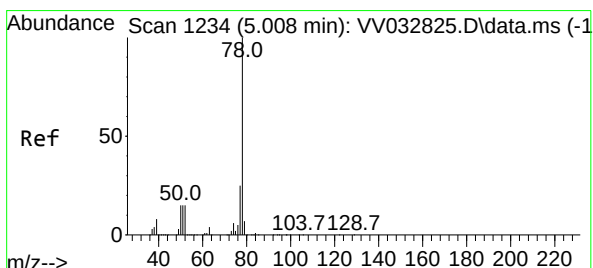
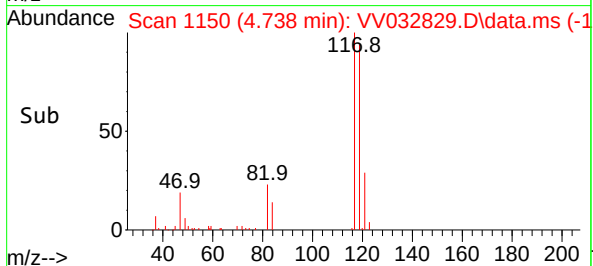
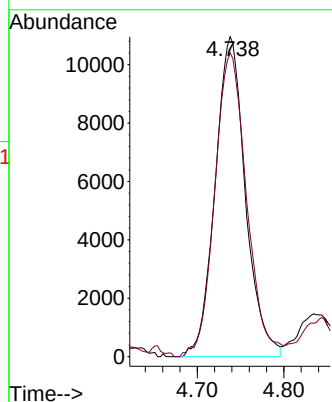
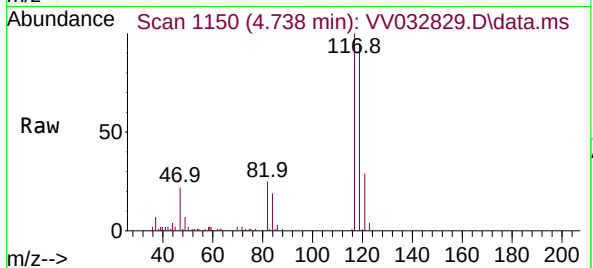
ClientSampleId :

Tgt Ion:117 Resp: 26591

Ion Ratio Lower Upper

117 100

119 99.9 77.8 116.6



#33

Benzene

Concen: 3.393 ug/L

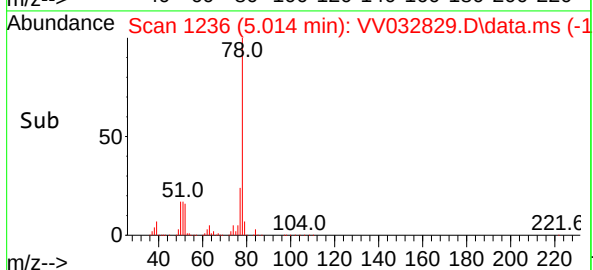
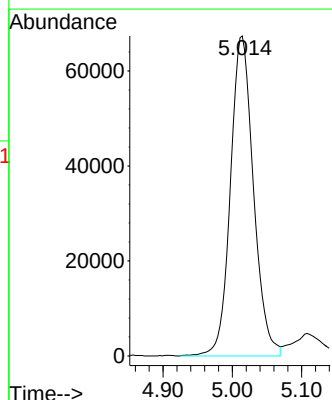
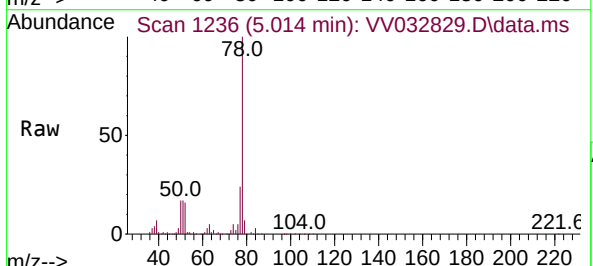
RT: 5.014 min Scan# 1236

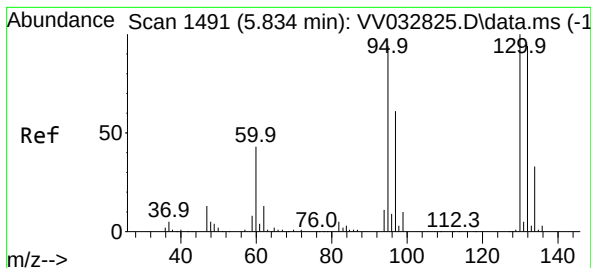
Delta R.T. 0.006 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

Tgt Ion: 78 Resp: 155657





#34

Trichloroethene

Concen: 1.656 ug/L

RT: 5.837 min Scan# 1491

Delta R.T. 0.003 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 20301

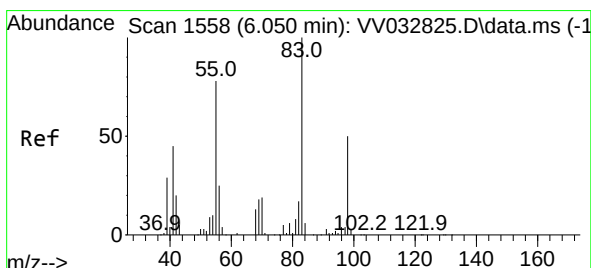
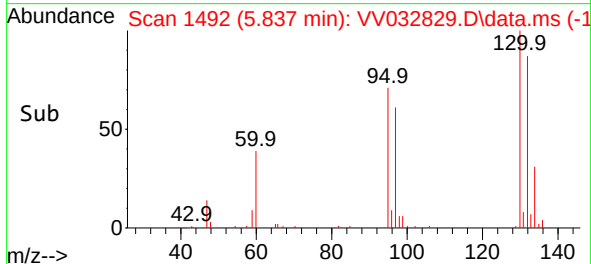
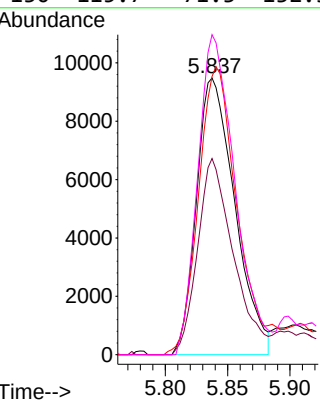
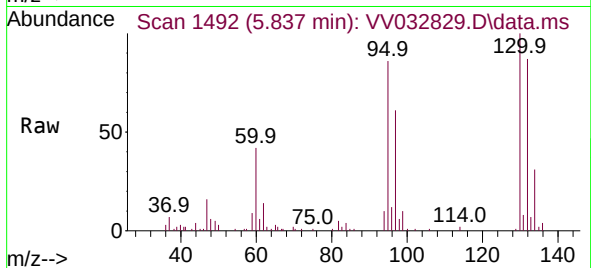
Ion Ratio Lower Upper

95 100

97 70.9 44.0 81.8

132 100.6 66.9 124.3

130 115.7 71.3 132.3



#35

Methylcyclohexane

Concen: 0.710 ug/L

RT: 5.992 min Scan# 1540

Delta R.T. -0.058 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

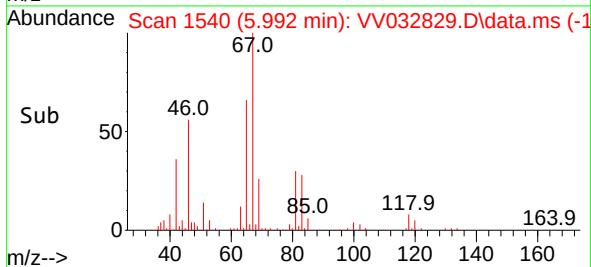
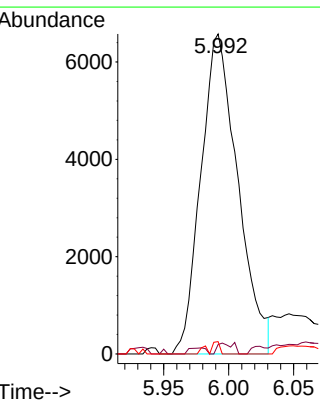
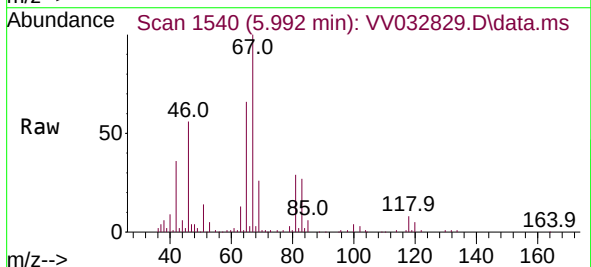
Tgt Ion: 83 Resp: 13006

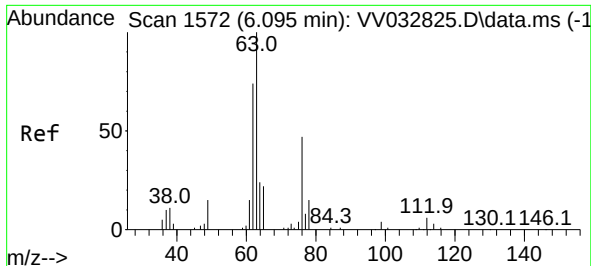
Ion Ratio Lower Upper

83 100

55 1.5 59.6 89.4#

98 1.2 39.1 58.7#





#37

1,2-Dichloropropane

Concen: 1.721 ug/L

RT: 6.095 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

Instrument :

MSVOA_V

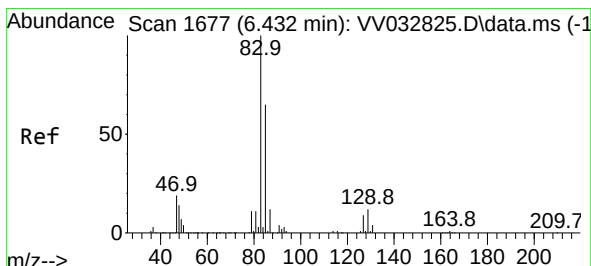
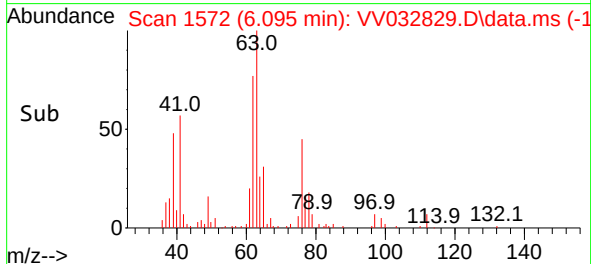
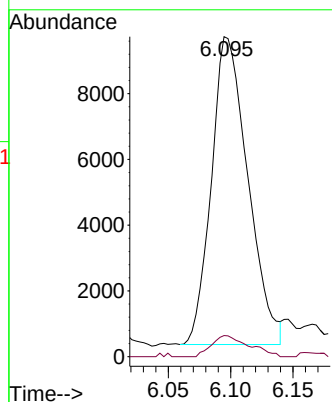
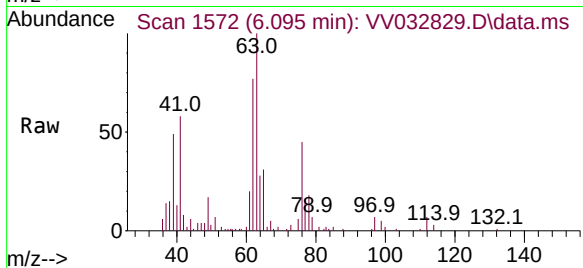
ClientSampleId :

Tgt Ion: 63 Resp: 19051

Ion Ratio Lower Upper

63 100

112 7.0 4.6 7.0#



#38

Bromodichloromethane

Concen: 0.651 ug/L

RT: 6.439 min Scan# 1679

Delta R.T. 0.006 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

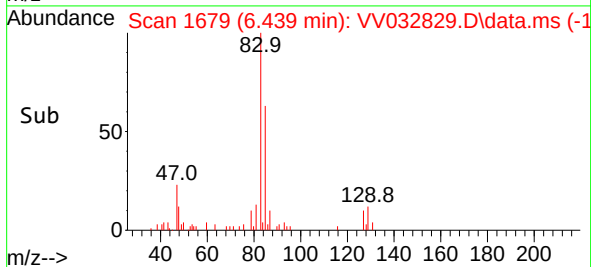
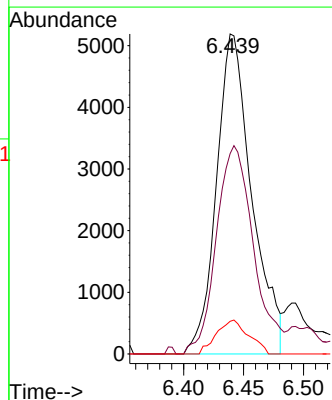
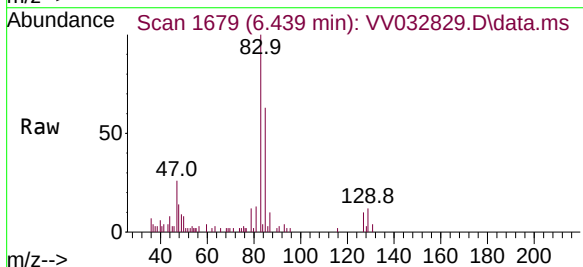
Tgt Ion: 83 Resp: 10644

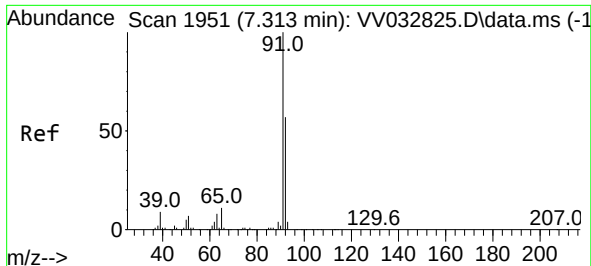
Ion Ratio Lower Upper

83 100

85 62.6 44.9 83.5

127 10.2 7.0 10.6

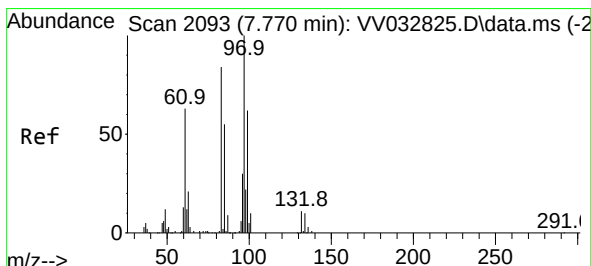
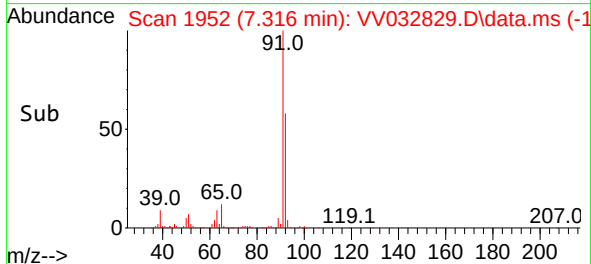
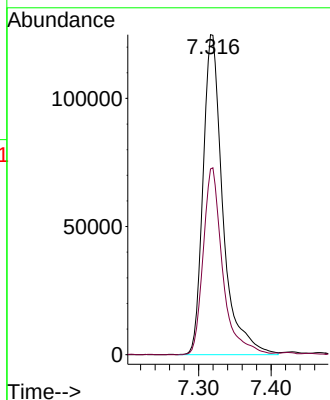
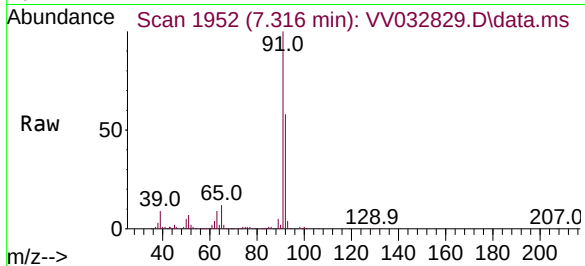




#42
Toluene
Concen: 4.445 ug/L
RT: 7.316 min Scan# 1951
Delta R.T. 0.003 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

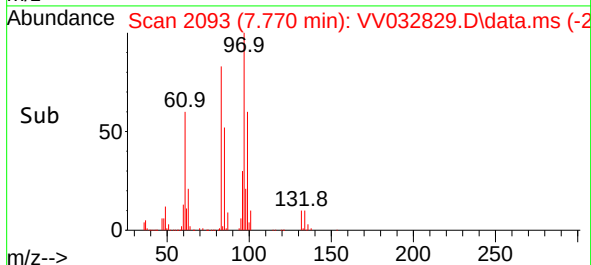
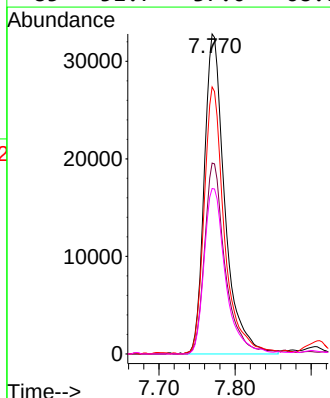
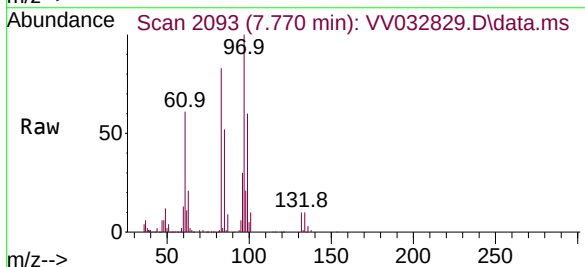
Instrument :
MSVOA_V
ClientSampleId :

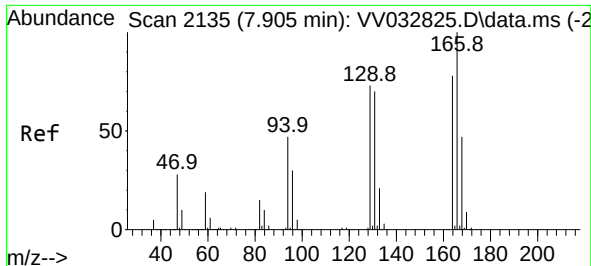
Tgt Ion: 91 Resp: 236935
Ion Ratio Lower Upper
91 100
92 58.1 39.9 74.1



#45
1,1,2-Trichloroethane
Concen: 6.581 ug/L
RT: 7.770 min Scan# 2093
Delta R.T. -0.000 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

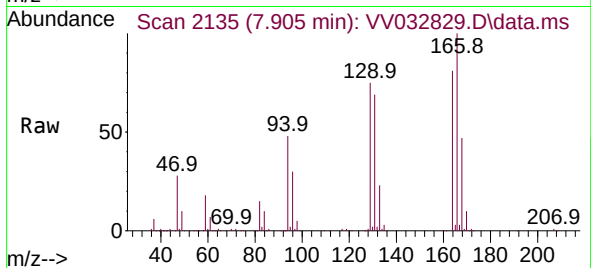
Tgt Ion: 97 Resp: 61535
Ion Ratio Lower Upper
97 100
99 59.6 44.0 81.8
83 83.5 59.9 111.3
85 51.7 37.0 68.8



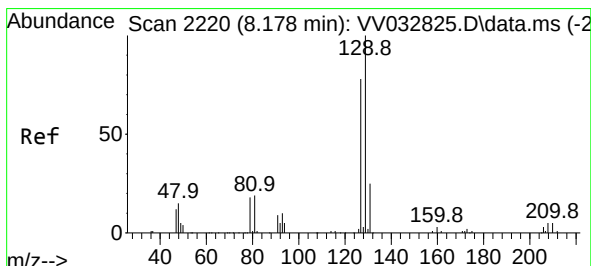
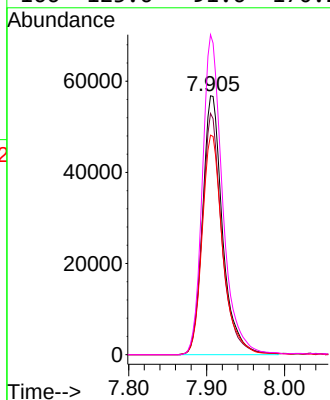
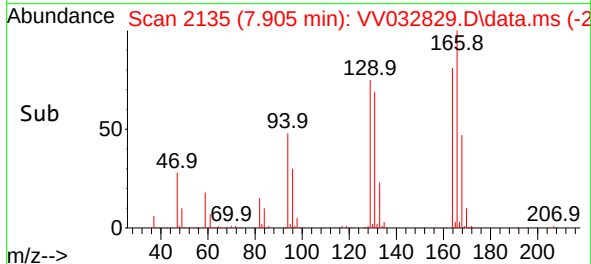


#47
Tetrachloroethene
Concen: 9.325 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. -0.000 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

Instrument :
MSVOA_V
ClientSampleId :

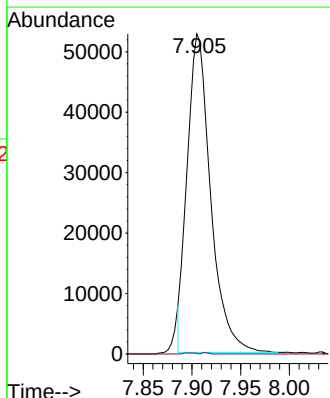
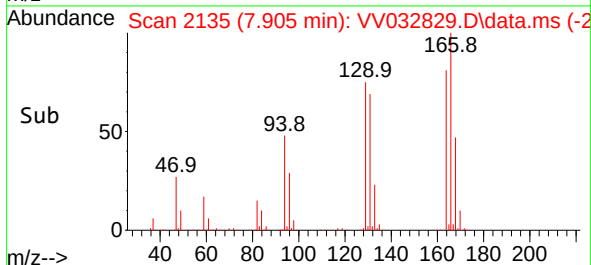
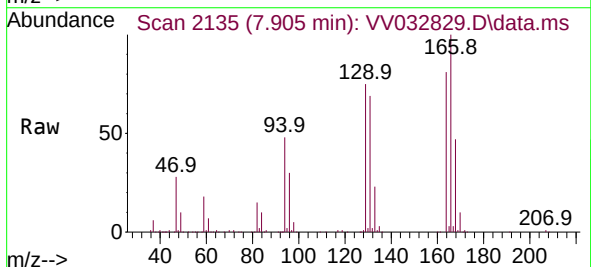


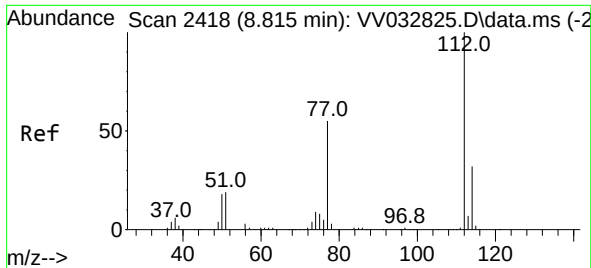
Tgt Ion:164 Resp: 101010
Ion Ratio Lower Upper
164 100
129 93.2 65.3 121.3
131 84.8 66.6 123.8
166 123.6 91.6 170.2



#49
Dibromochloromethane
Concen: 7.942 ug/L
RT: 7.905 min Scan# 2135
Delta R.T. -0.273 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

Tgt Ion:129 Resp: 88080
Ion Ratio Lower Upper
129 100
127 0.2 54.0 100.4#

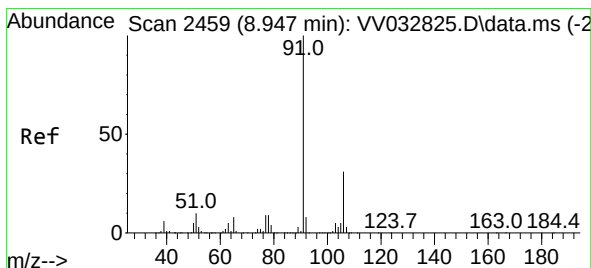
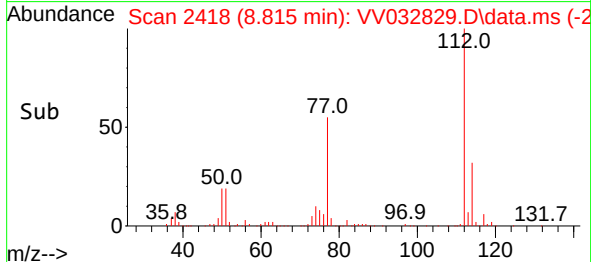
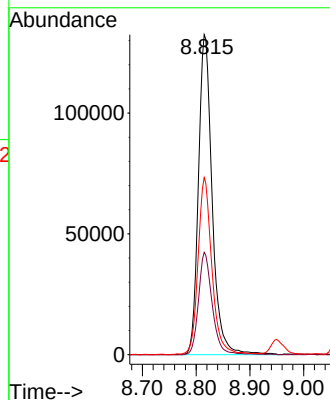
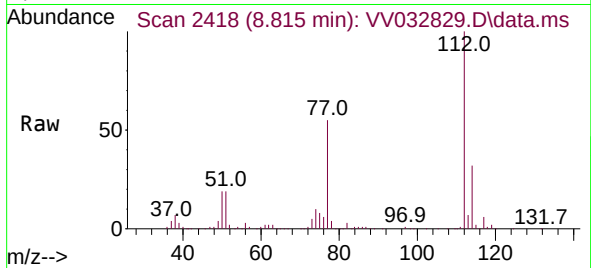




#51
Chlorobenzene
Concen: 6.679 ug/L
RT: 8.815 min Scan# 2418
Delta R.T. -0.000 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

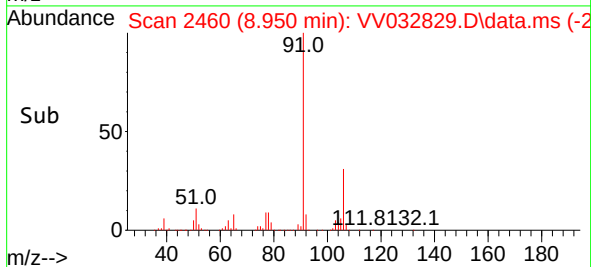
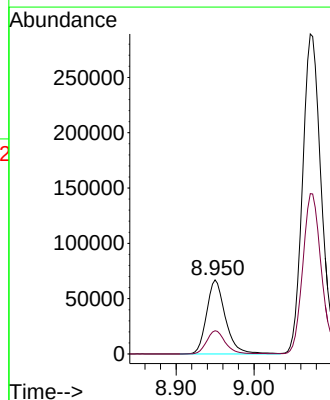
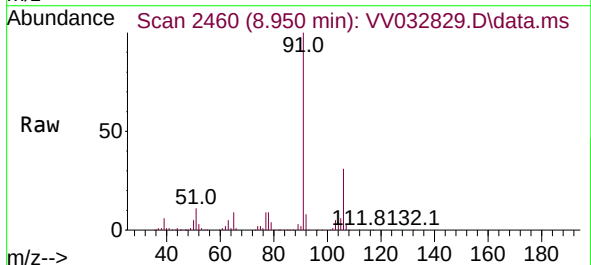
Instrument :
MSVOA_V
ClientSampleId :

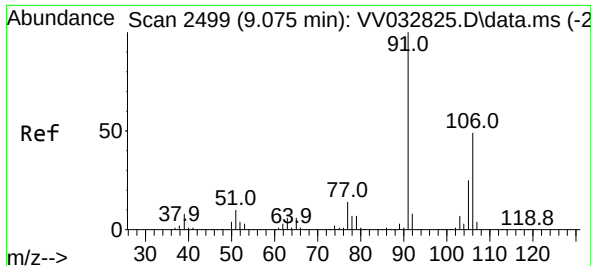
Tgt Ion:112 Resp: 235218
Ion Ratio Lower Upper
112 100
114 32.0 22.7 42.3
77 55.3 45.7 68.5



#52
Ethylbenzene
Concen: 2.009 ug/L
RT: 8.950 min Scan# 2460
Delta R.T. 0.003 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

Tgt Ion: 91 Resp: 112595
Ion Ratio Lower Upper
91 100
106 31.4 20.9 38.9

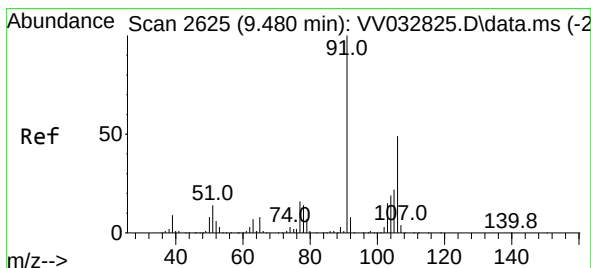
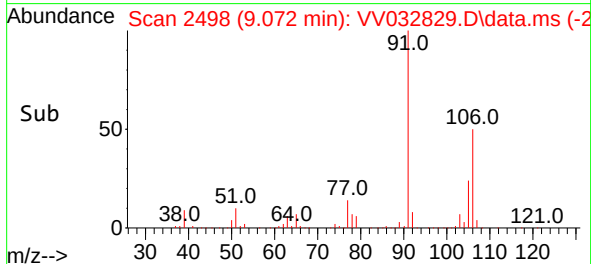
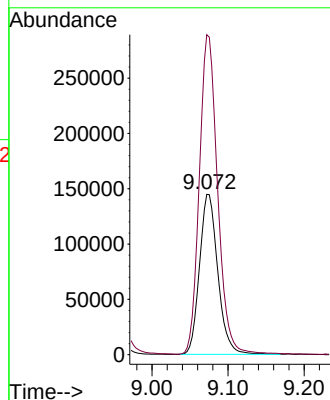
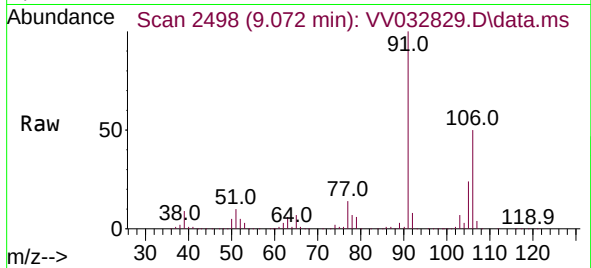




#53
m,p-Xylene
Concen: 11.418 ug/L
RT: 9.072 min Scan# 2499
Delta R.T. -0.003 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

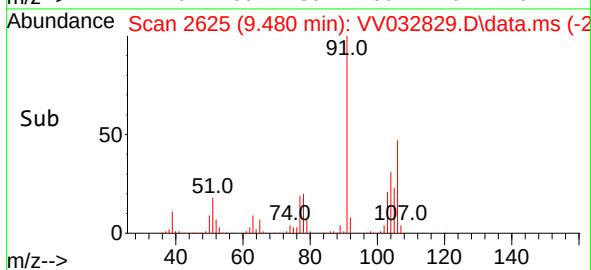
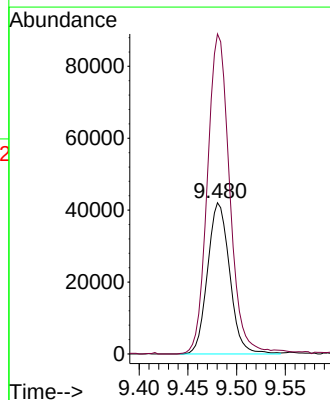
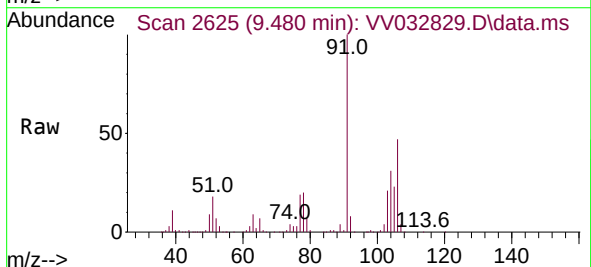
Instrument :
MSVOA_V
ClientSampleId :

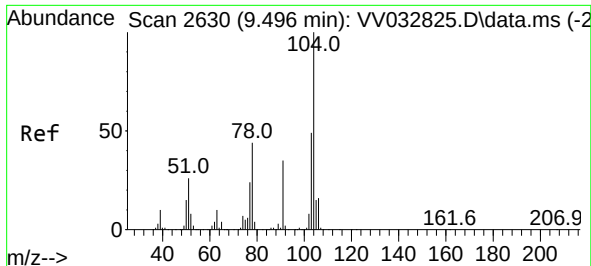
Tgt Ion:106 Resp: 242290
Ion Ratio Lower Upper
106 100
91 199.6 139.3 258.7



#54
o-Xylene
Concen: 3.226 ug/L
RT: 9.480 min Scan# 2625
Delta R.T. -0.000 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

Tgt Ion:106 Resp: 66386
Ion Ratio Lower Upper
106 100
91 211.5 147.4 273.8

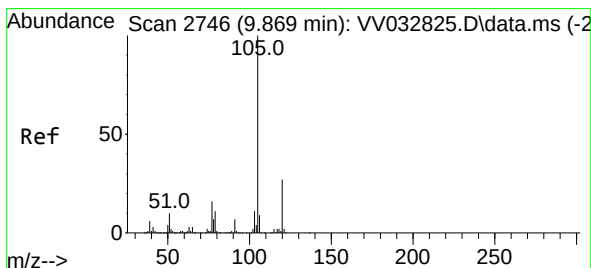
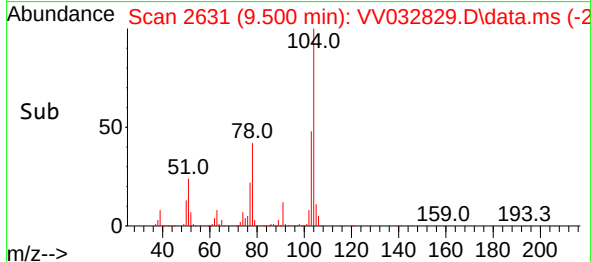
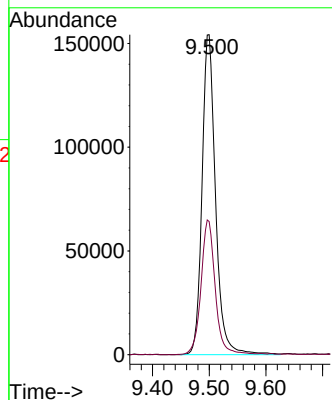
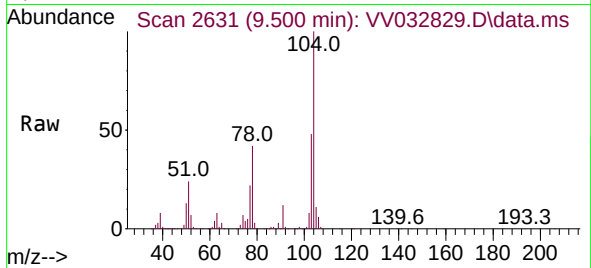




#55
Styrene
Concen: 7.491 ug/L
RT: 9.500 min Scan# 2631
Delta R.T. 0.003 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

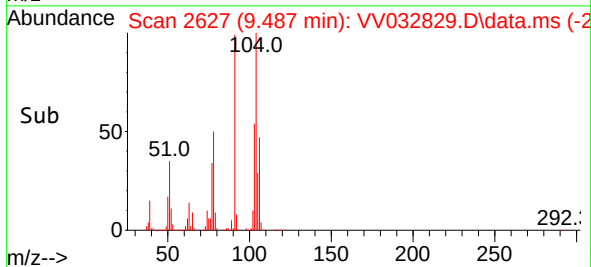
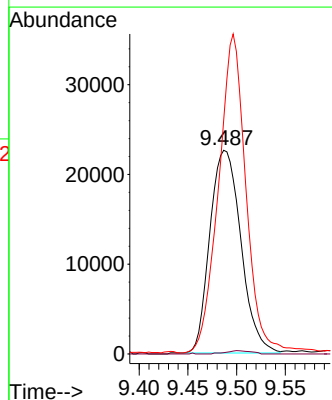
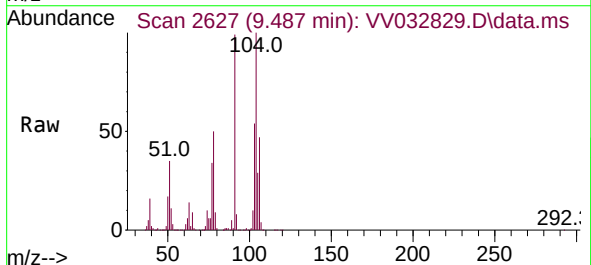
Instrument :
MSVOA_V
ClientSampleId :

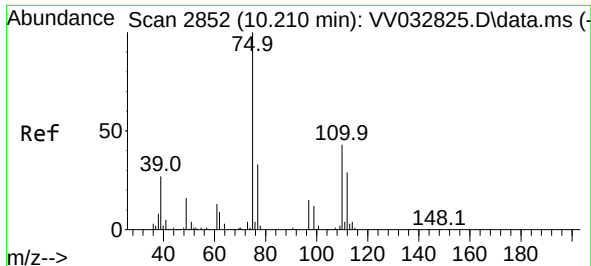
Tgt Ion:104 Resp: 255461
Ion Ratio Lower Upper
104 100
78 41.6 30.5 56.7



#60
Isopropylbenzene
Concen: 1.083 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. -0.383 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

Tgt Ion:105 Resp: 50093
Ion Ratio Lower Upper
105 100
120 1.3 21.0 31.6#
77 139.7 12.6 19.0#

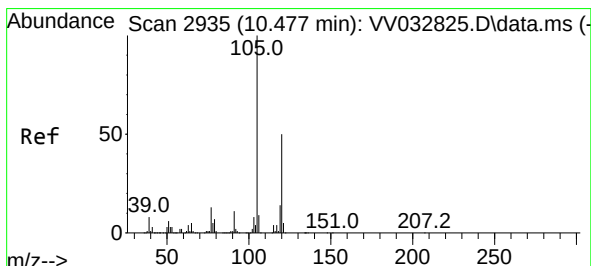
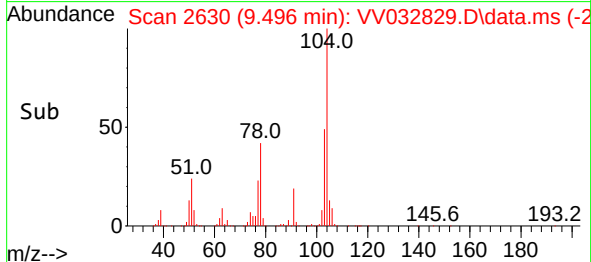
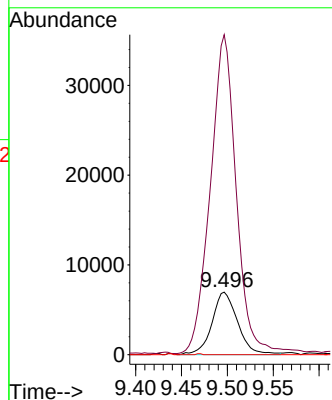
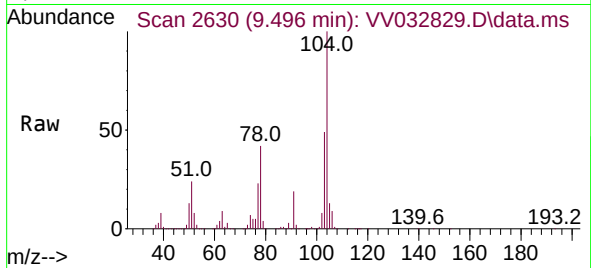




#61
 1,2,3-Trichloropropane
 Concen: 1.878 ug/L
 RT: 9.496 min Scan# 2630
 Delta R.T. -0.714 min
 Lab File: VV032829.D
 Acq: 01 Nov 2023 17:22

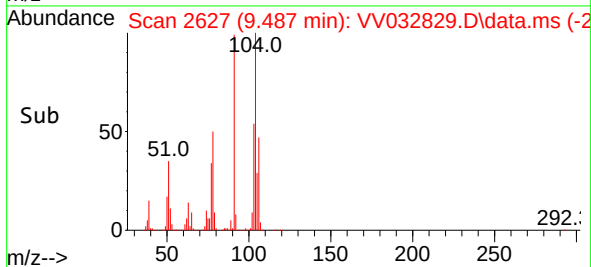
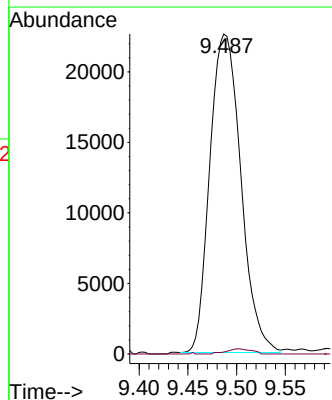
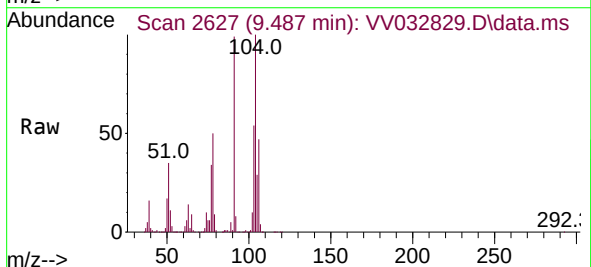
Instrument :
 MSVOA_V
 ClientSampleId :

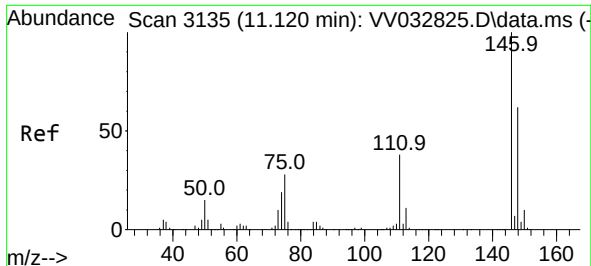
Tgt Ion: 75 Resp: 13539
 Ion Ratio Lower Upper
 75 100
 77 516.9 24.5 36.7#
 110 0.0 32.3 48.5#



#62
 1,3,5-Trimethylbenzene
 Concen: 1.324 ug/L
 RT: 9.487 min Scan# 2627
 Delta R.T. -0.990 min
 Lab File: VV032829.D
 Acq: 01 Nov 2023 17:22

Tgt Ion: 105 Resp: 50093
 Ion Ratio Lower Upper
 105 100
 120 1.3 39.4 59.2#

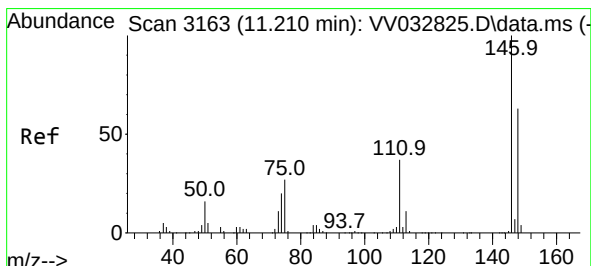
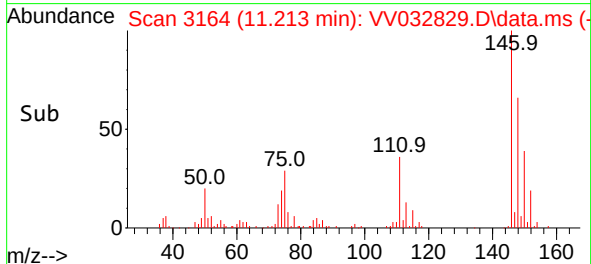
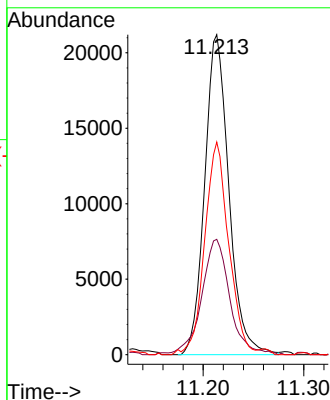
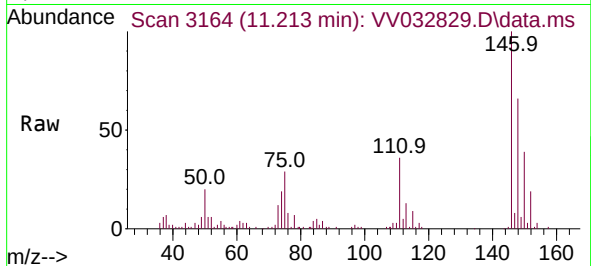




#64
1,3-Dichlorobenzene
Concen: 1.428 ug/L
RT: 11.213 min Scan# 3164
Delta R.T. 0.093 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

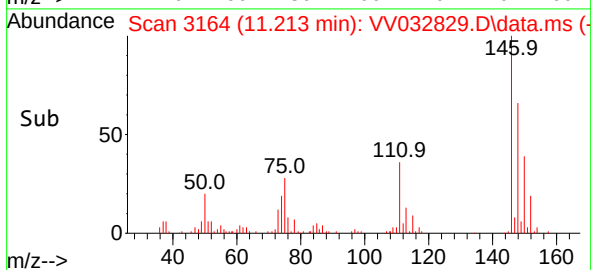
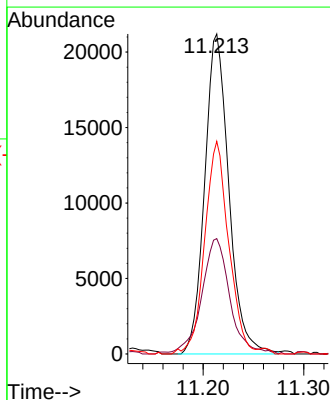
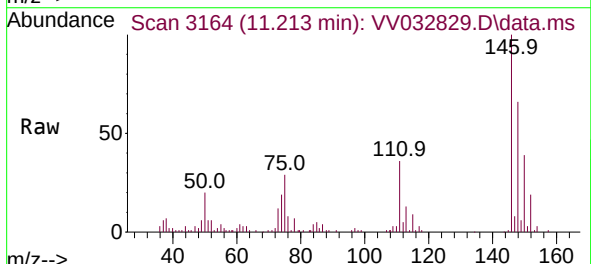
Instrument :
MSVOA_V
ClientSampleId :

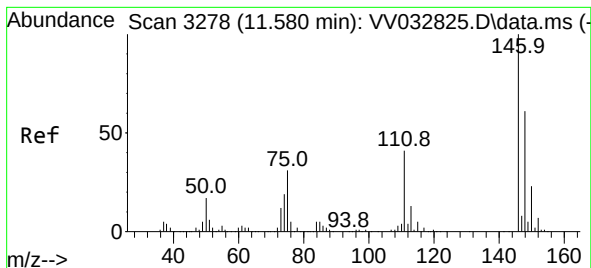
Tgt Ion:	146	Resp:	35452
Ion Ratio	Lower	Upper	
146	100		
111	36.1	26.8	49.8
148	66.5	44.3	82.3



#65
1,4-Dichlorobenzene
Concen: 1.439 ug/L
RT: 11.213 min Scan# 3164
Delta R.T. 0.003 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

Tgt Ion:	146	Resp:	35452
Ion Ratio	Lower	Upper	
146	100		
111	36.1	26.2	48.8
148	66.5	44.3	82.3





#67

1,2-Dichlorobenzene

Concen: 10.178 ug/L

RT: 11.580 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

Instrument :

MSVOA_V

ClientSampleId :

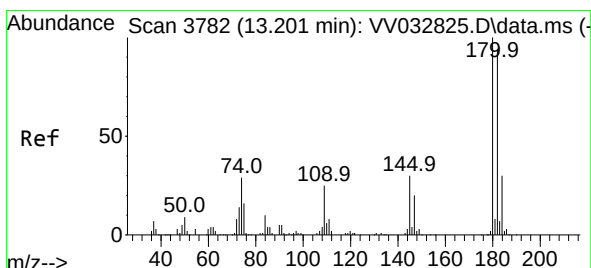
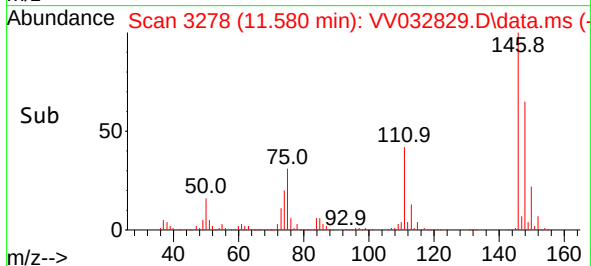
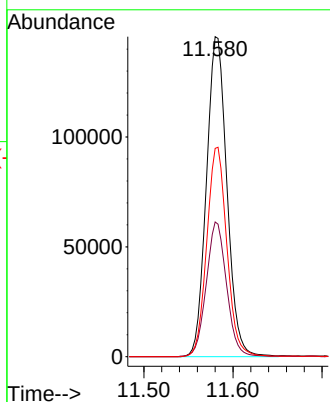
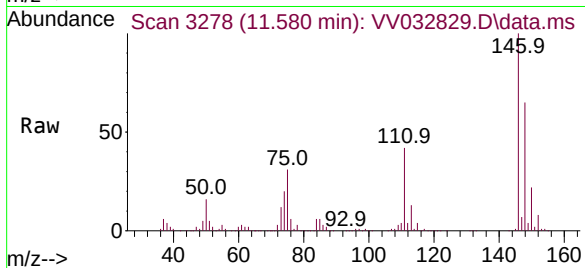
Tgt Ion:146 Resp: 232370

Ion Ratio Lower Upper

146 100

111 42.1 34.2 51.4

148 65.1 51.8 77.8



#70

1,2,4-trichlorobenzene

Concen: 2.683 ug/L

RT: 13.200 min Scan# 3782

Delta R.T. -0.000 min

Lab File: VV032829.D

Acq: 01 Nov 2023 17:22

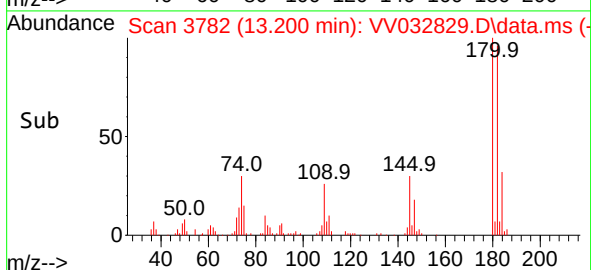
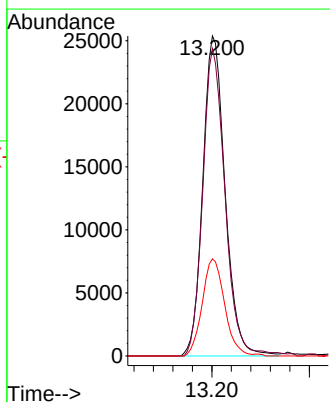
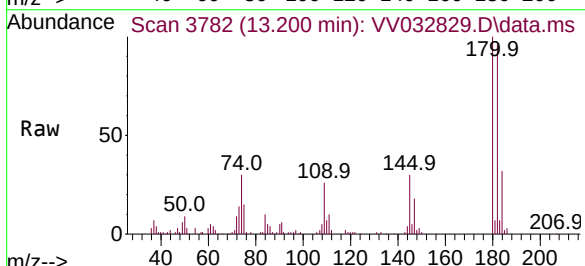
Tgt Ion:180 Resp: 40336

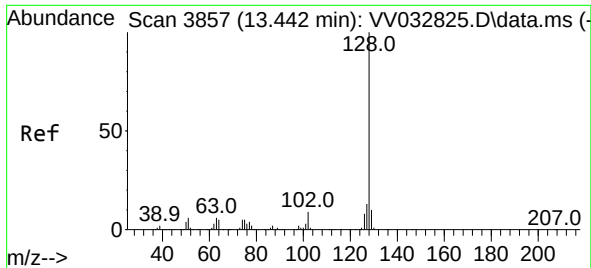
Ion Ratio Lower Upper

180 100

182 95.9 75.7 113.5

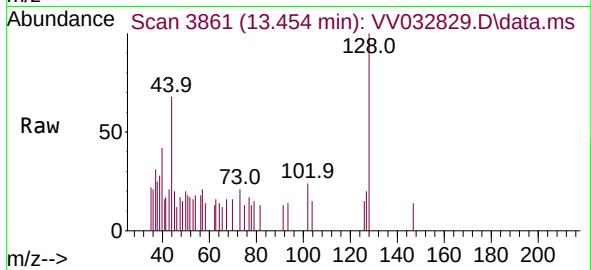
145 30.4 25.0 37.4





#71
Naphthalene
Concen: 0.069 ug/L
RT: 13.454 min Scan# 3857
Delta R.T. 0.013 min
Lab File: VV032829.D
Acq: 01 Nov 2023 17:22

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 1647
Ion Ratio Lower Upper
128 100
129 7.2 8.6 12.8#
127 10.1 10.4 15.6#

