

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090322\
 Data File : VX031085.D
 Acq On : 03 Sep 2022 16:16
 Operator : JC/MD
 Sample : N4357-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D2-20220822

Quant Time: Sep 06 00:13:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X090122W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 02 02:49:21 2022
 Response via : Initial Calibration

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

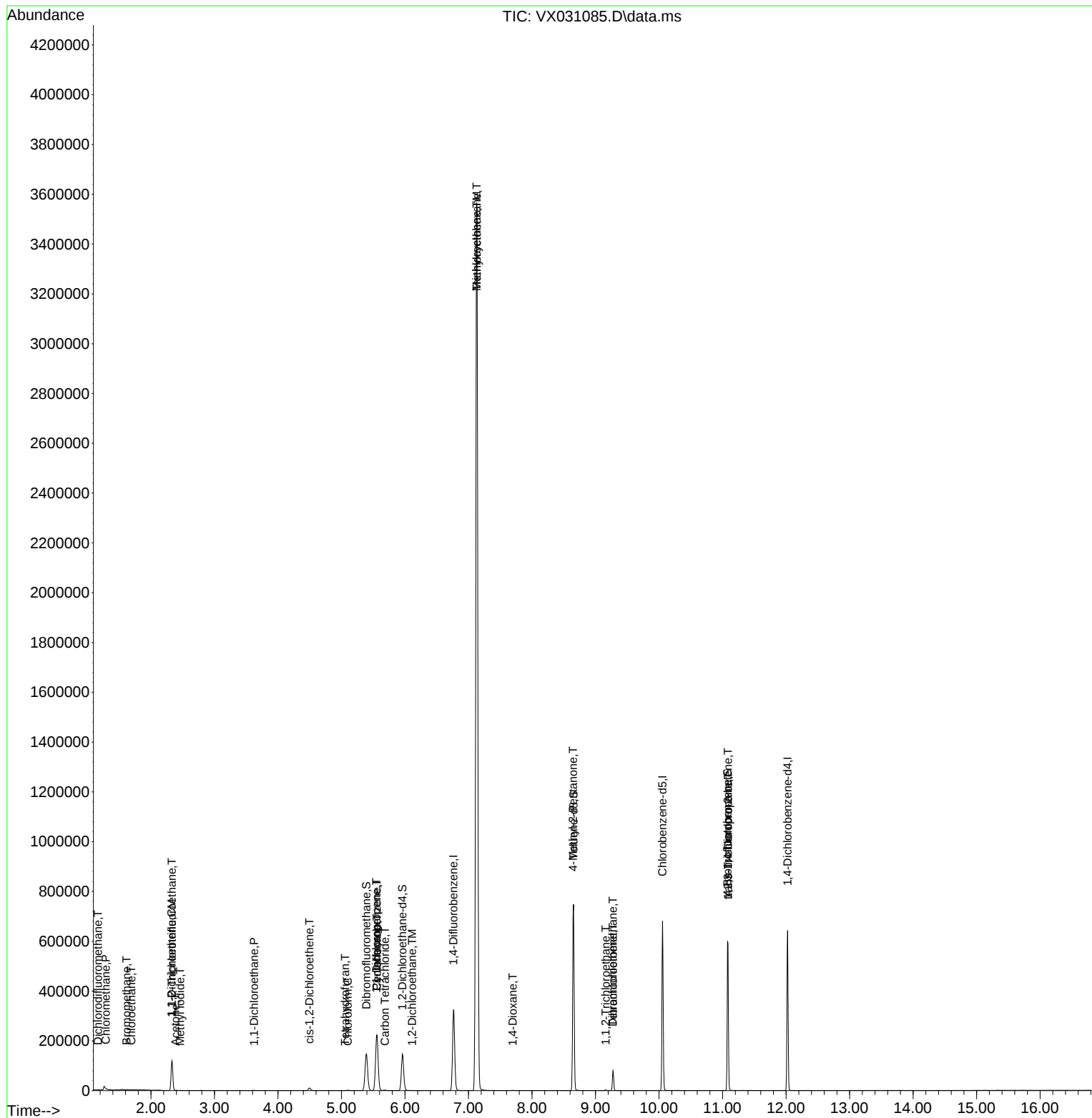
Internal Standards						
1) Pentafluorobenzene	5.556	168	228949	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	358878	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	328559	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	147038	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	140894	47.828	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.660%
35) Dibromofluoromethane	5.391	113	133707	51.053	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.100%
50) Toluene-d8	8.653	98	477298	49.519	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.040%
62) 4-Bromofluorobenzene	11.079	95	165373	48.577	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.160%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	666	0.283	ug/l	87
3) Chloromethane	1.288	50	750	1.029	ug/l #	42
5) Bromomethane	1.618	94	301	0.274	ug/l #	50
6) Chloroethane	1.691	64	540	2.028	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.331	101	45396	16.482	ug/l	91
10) Methyl Iodide	2.459	142	883	3.221	ug/l	90
11) Tert butyl alcohol	2.977	59	24	Below Cal	#	74
12) 1,1-Dichloroethene	2.325	96	5093	1.915	ug/l	87
16) Acetone	2.386	43	792	0.696	ug/l	91
20) Methylene Chloride	2.800	84	657	Below Cal	#	36
24) 1,1-Dichloroethane	3.623	63	1788	0.373	ug/l #	78
27) cis-1,2-Dichloroethene	4.495	96	7214	2.175	ug/l	86
29) Tetrahydrofuran	5.056	42	450	0.398	ug/l #	38
30) Chloroform	5.099	83	2462	0.468	ug/l #	83
31) Cyclohexane	5.556	56	3489	0.867	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	14802	4.035	ug/l #	49
38) Carbon Tetrachloride	5.684	117	1855	0.487	ug/l #	76
39) Methylcyclohexane	7.129	83	15847	3.486	ug/l #	1
42) 1,2-Dichloroethane	6.111	62	845	0.243	ug/l #	73
44) Trichloroethene	7.129	130	1517040	455.075	ug/l	98
49) 1,4-Dioxane	7.696	88	1188	15.531	ug/l #	27
51) 4-Methyl-2-Pentanone	8.647	43	1538	0.480	ug/l #	1
55) 1,1,2-Trichloroethane	9.159	97	942	0.324	ug/l #	79
60) Dibromochloromethane	9.275	129	14554	4.827	ug/l #	11
64) Tetrachloroethene	9.275	164	15818	4.822	ug/l	94
76) 1,2,3-Trichloropropane	11.085	75	76748	22.080	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.085	75	76748	69.393	ug/l #	13

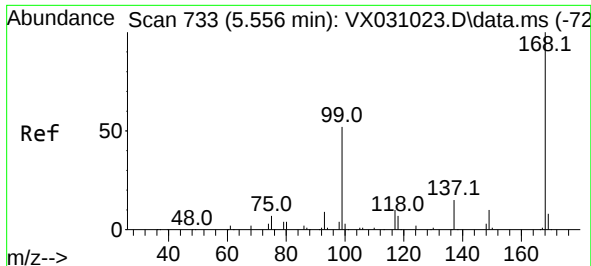
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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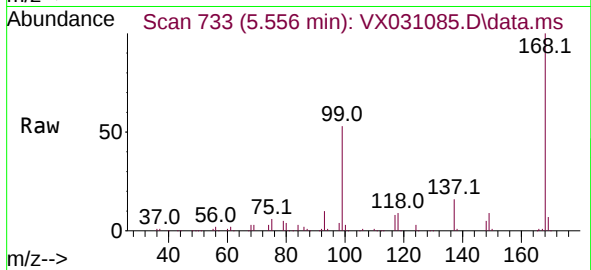
Quant Time: Sep 06 00:13:32 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X090122W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 02 02:49:21 2022
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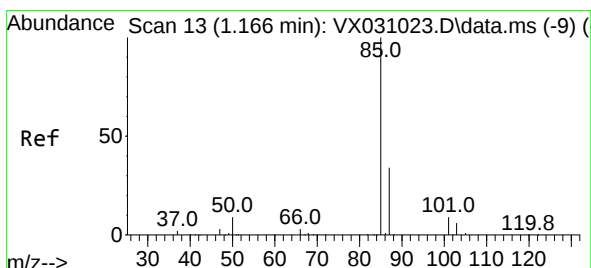
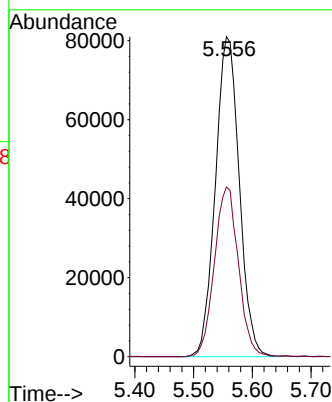
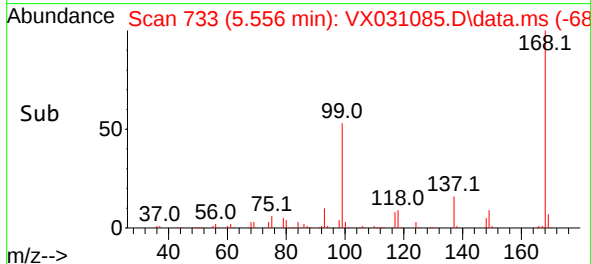


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20220822

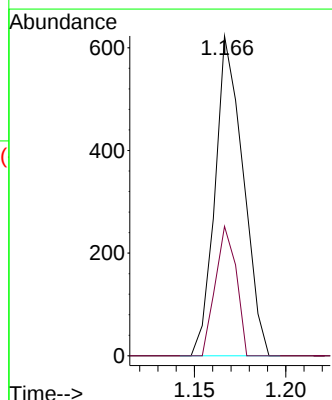
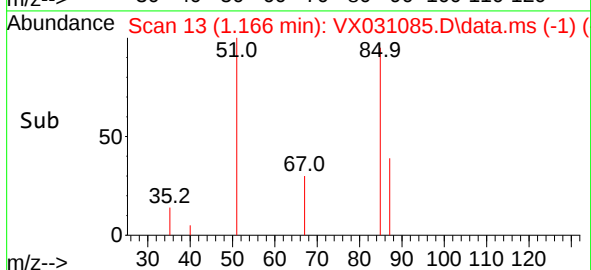
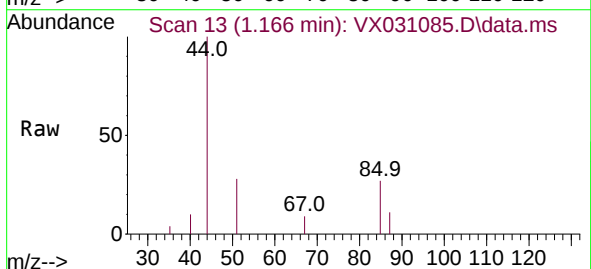


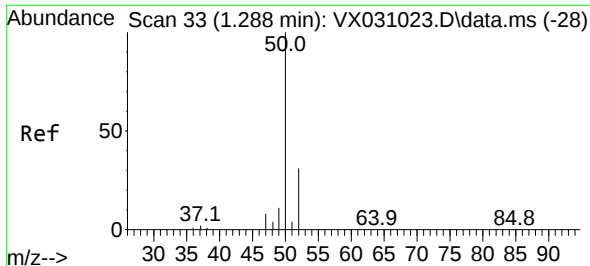
Tgt Ion:168 Resp: 228949
Ion Ratio Lower Upper
168 100
99 53.0 44.0 66.0



#2
Dichlorodifluoromethane
Concen: 0.283 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Tgt Ion: 85 Resp: 666
Ion Ratio Lower Upper
85 100
87 40.4 16.5 49.5

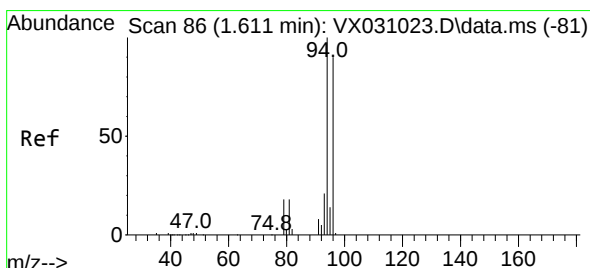
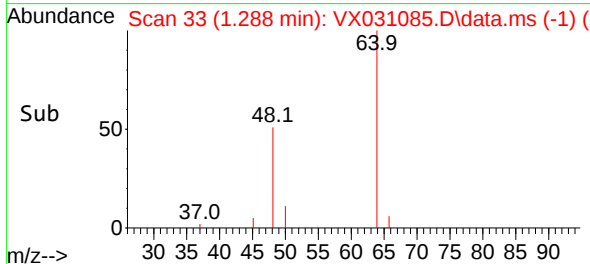
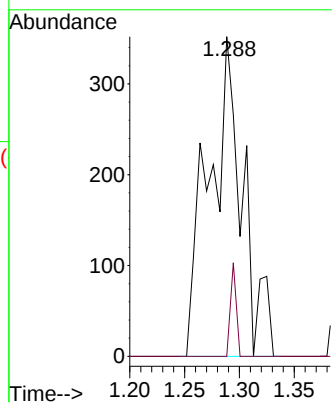
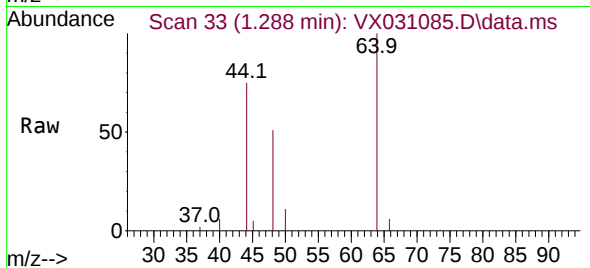




#3
Chloromethane
Concen: 1.029 ug/l
RT: 1.288 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

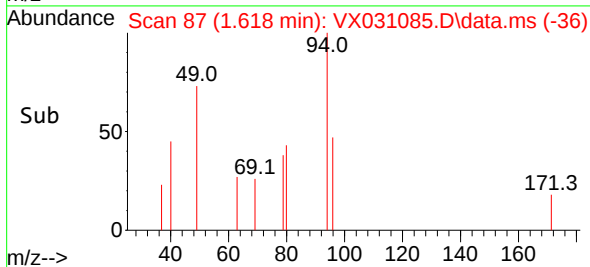
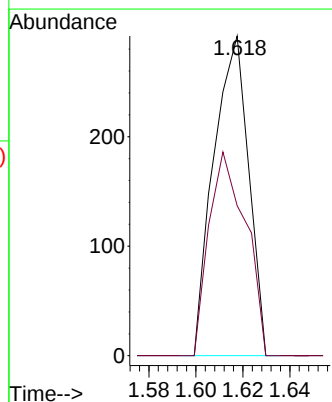
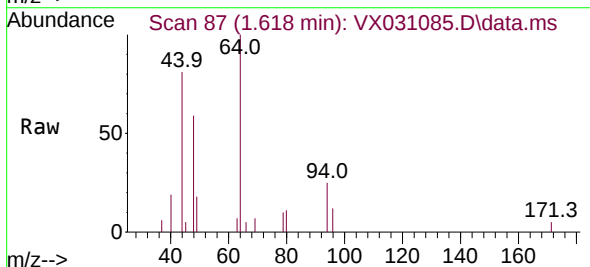
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20220822

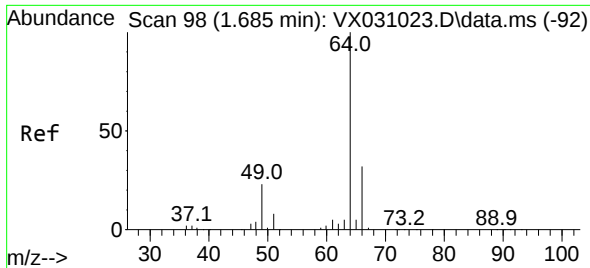
Tgt Ion: 50 Resp: 750
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#



#5
Bromomethane
Concen: 0.274 ug/l
RT: 1.618 min Scan# 87
Delta R.T. 0.013 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Tgt Ion: 94 Resp: 301
Ion Ratio Lower Upper
94 100
96 46.9 76.9 115.3#

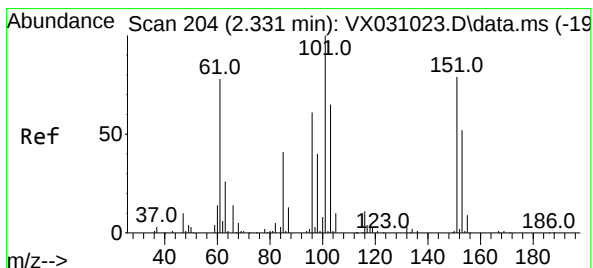
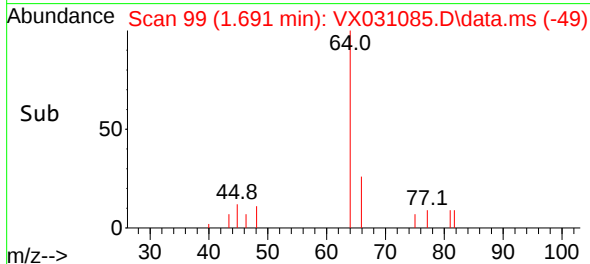
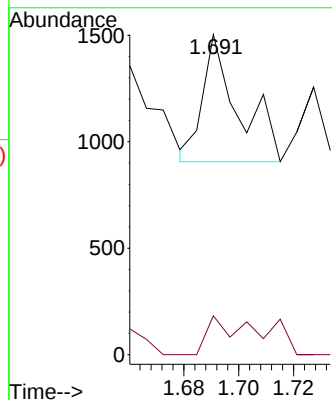
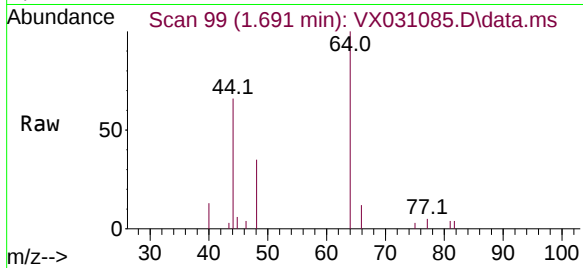




#6
Chloroethane
Concen: 2.028 ug/l
RT: 1.691 min Scan# 99
Delta R.T. 0.006 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

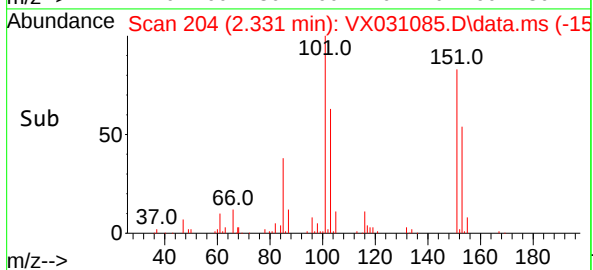
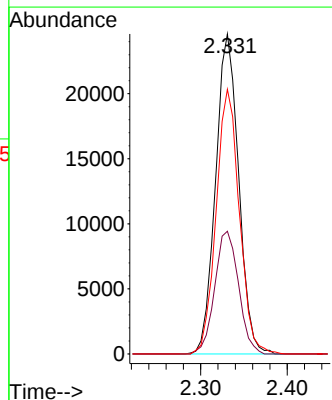
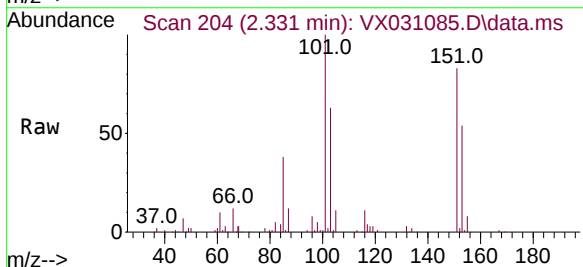
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20220822

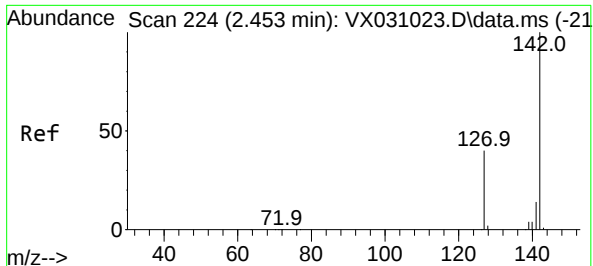
Tgt Ion: 64 Resp: 540
Ion Ratio Lower Upper
64 100
66 30.7 27.2 40.8



#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.482 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

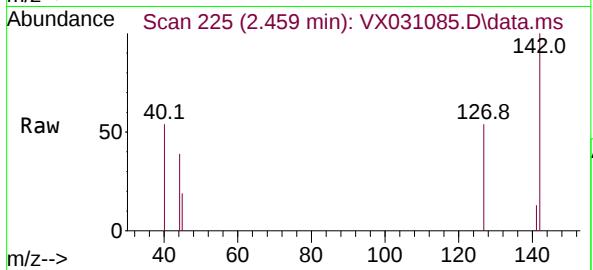
Tgt Ion: 101 Resp: 45396
Ion Ratio Lower Upper
101 100
85 39.7 34.0 51.0
151 83.4 59.4 89.0



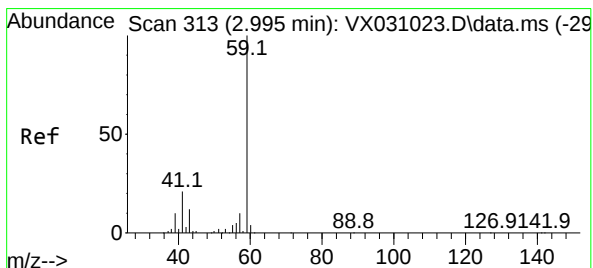
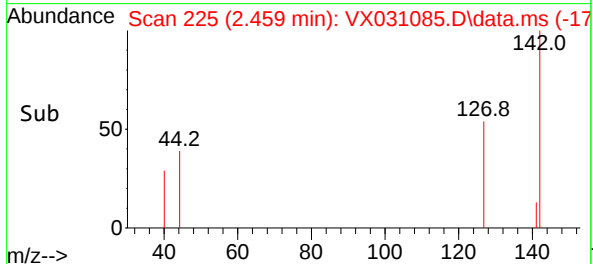
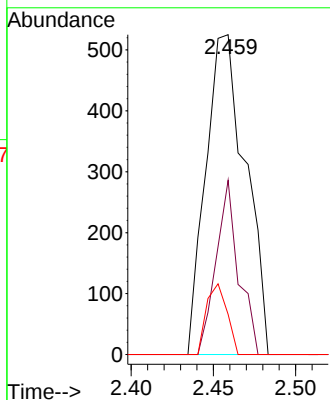


#10
Methyl Iodide
Concen: 3.221 ug/l
RT: 2.459 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20220822

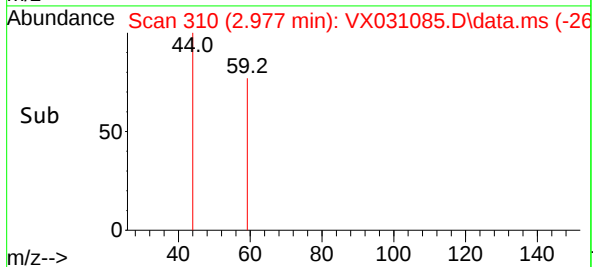
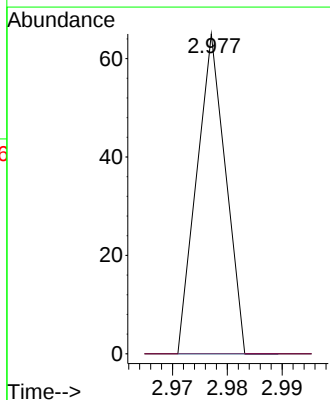
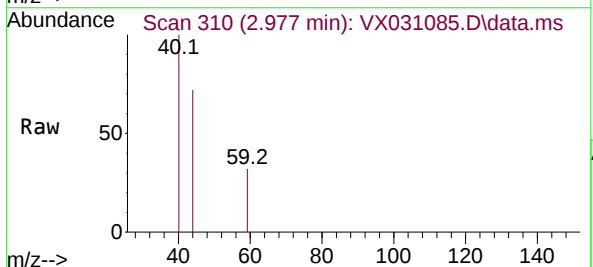


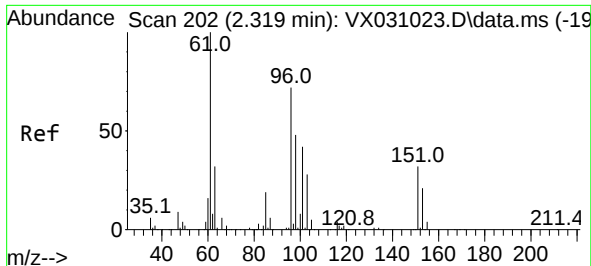
Tgt Ion:142 Resp: 883
Ion Ratio Lower Upper
142 100
127 30.9 30.2 45.2
141 11.3 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.977 min Scan# 310
Delta R.T. -0.012 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Tgt Ion: 59 Resp: 24
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.2#





#12

1,1-Dichloroethene

Concen: 1.915 ug/l

RT: 2.325 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX031085.D

Acq: 03 Sep 2022 16:16

Instrument :

MSVOA_X

ClientSampleId :

RE120D2-20220822

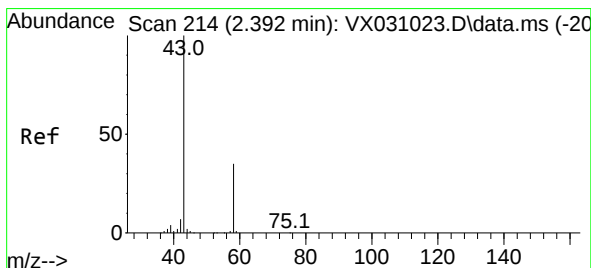
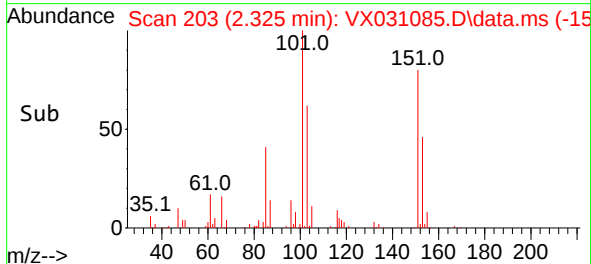
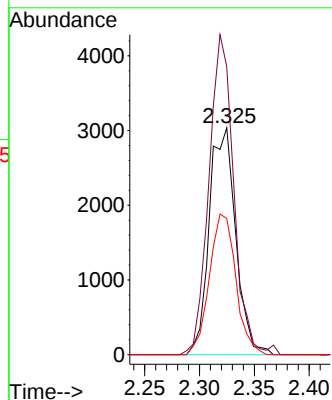
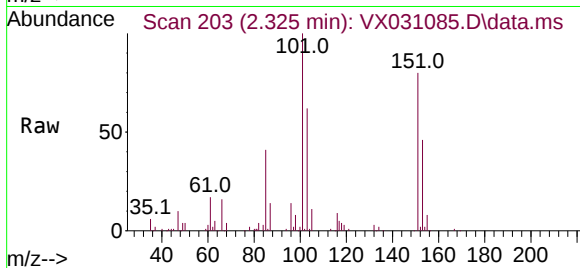
Tgt Ion: 96 Resp: 5093

Ion Ratio Lower Upper

96 100

61 127.0 117.4 176.0

98 60.0 52.2 78.4



#16

Acetone

Concen: 0.696 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX031085.D

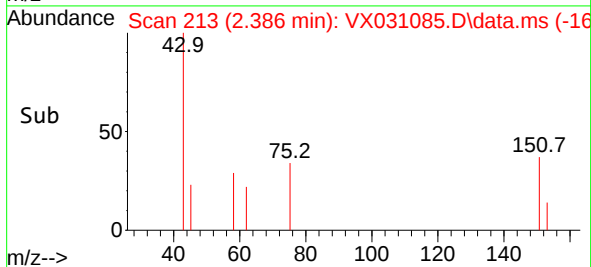
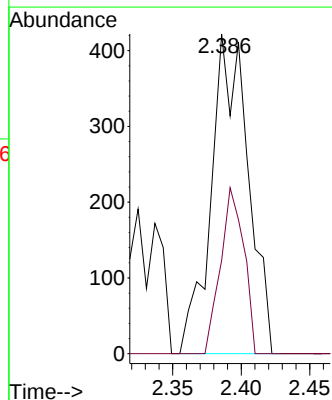
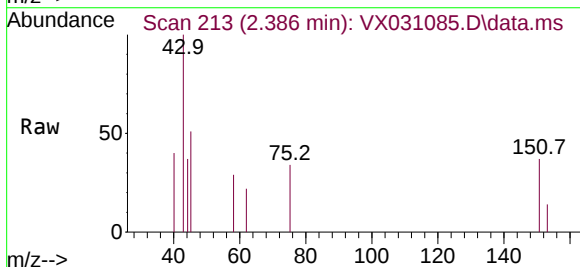
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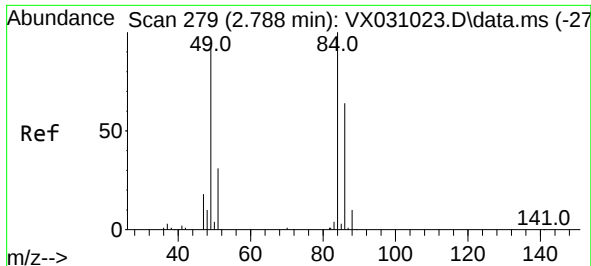
Tgt Ion: 43 Resp: 792

Ion Ratio Lower Upper

43 100

58 29.1 27.7 41.5

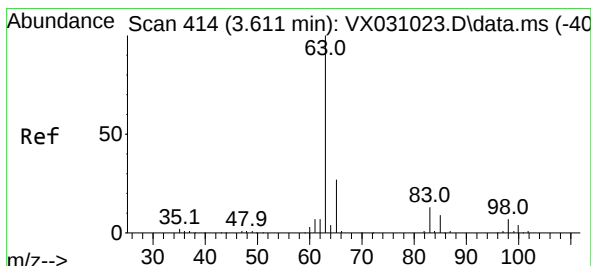
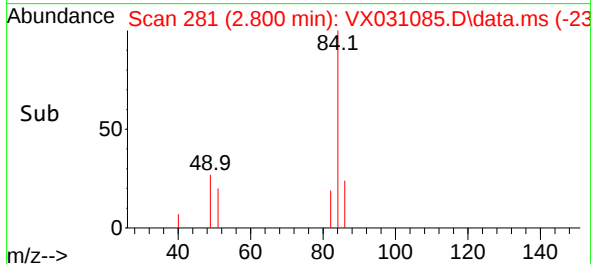
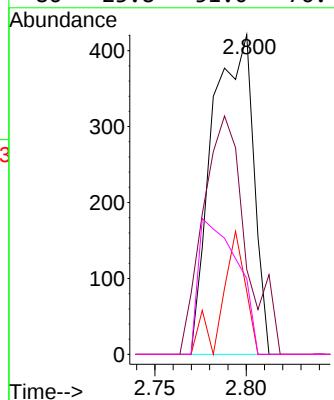
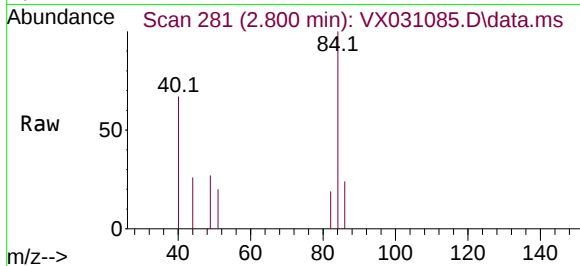




#20
Methylene Chloride
Concen: Below Cal
RT: 2.800 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

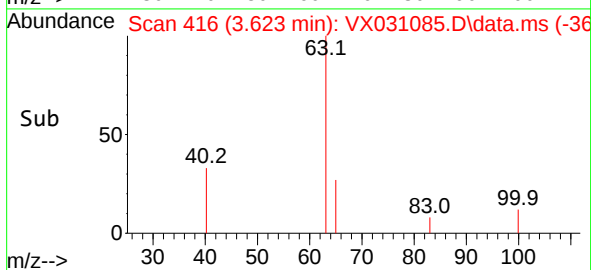
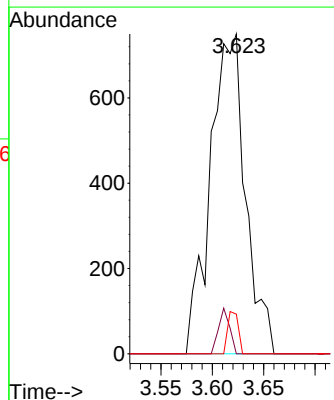
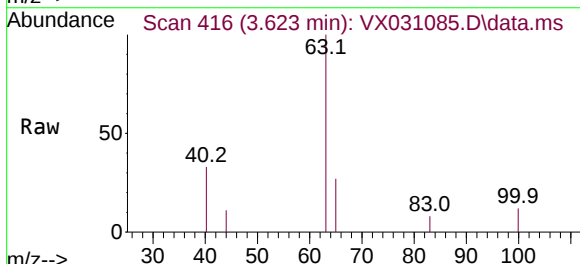
Instrument :
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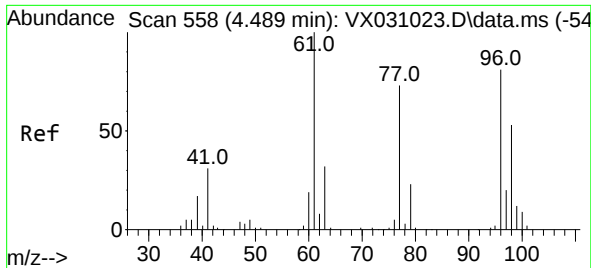
Tgt Ion:	84	Resp:	657
Ion	Ratio	Lower	Upper
84	100		
49	26.6	93.8	140.6#
51	19.7	29.4	44.0#
86	23.8	51.0	76.4#



#24
1,1-Dichloroethane
Concen: 0.373 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.012 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Tgt Ion:	63	Resp:	1788
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.5#
100	12.4	2.3	6.9#





#27

cis-1,2-Dichloroethene

Concen: 2.175 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX031085.D

Acq: 03 Sep 2022 16:16

Instrument :

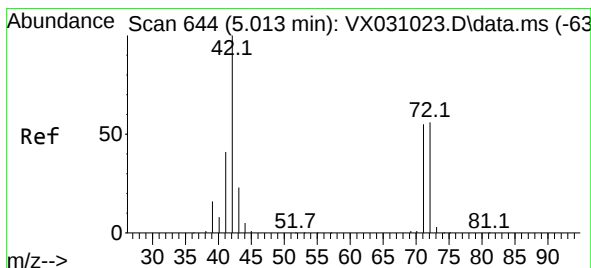
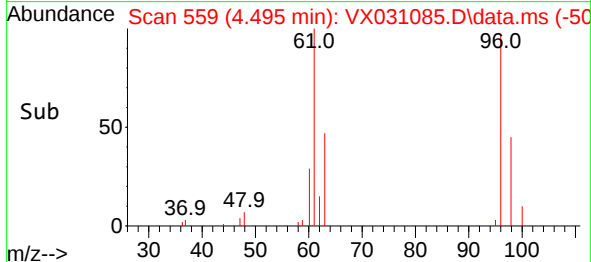
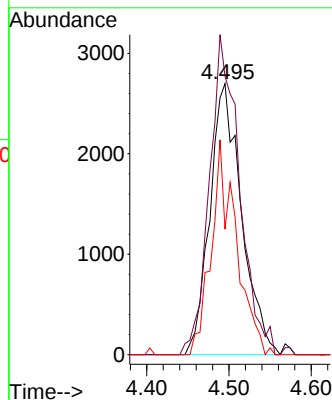
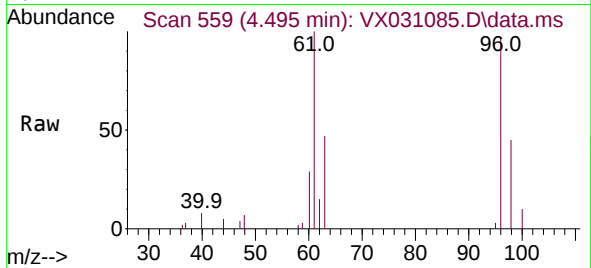
MSVOA_X

ClientSampleId :

RE120D2-20220822

Tgt Ion: 96 Resp: 7214

Ion	Ratio	Lower	Upper
96	100		
61	112.4	0.0	270.0
98	62.3	0.0	127.8



#29

Tetrahydrofuran

Concen: 0.398 ug/l

RT: 5.056 min Scan# 651

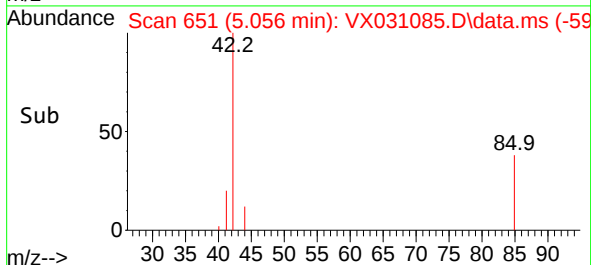
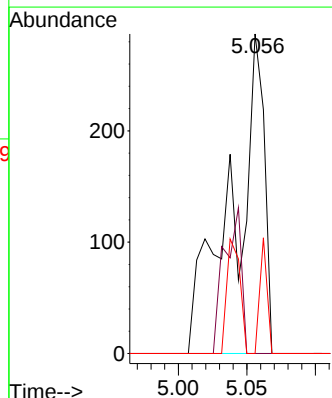
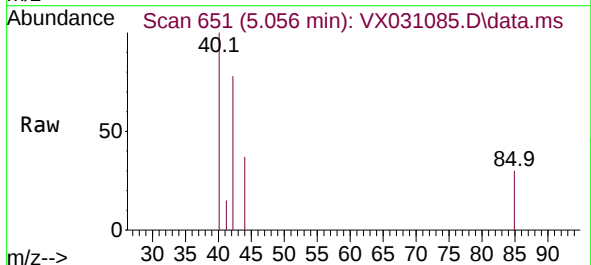
Delta R.T. 0.043 min

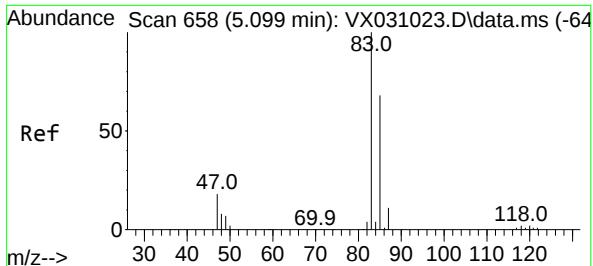
Lab File: VX031085.D

Acq: 03 Sep 2022 16:16

Tgt Ion: 42 Resp: 450

Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.5	54.7#
71	8.4	33.9	50.9#





#30

Chloroform

Concen: 0.468 ug/l

RT: 5.099 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX031085.D

Acq: 03 Sep 2022 16:16

Instrument :

MSVOA_X

ClientSampleId :

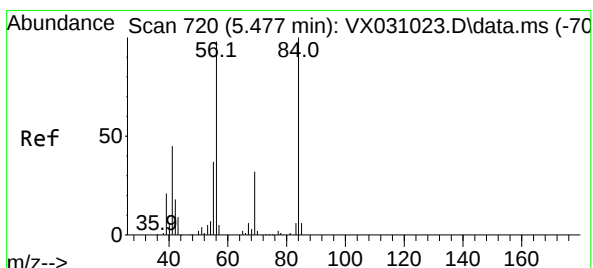
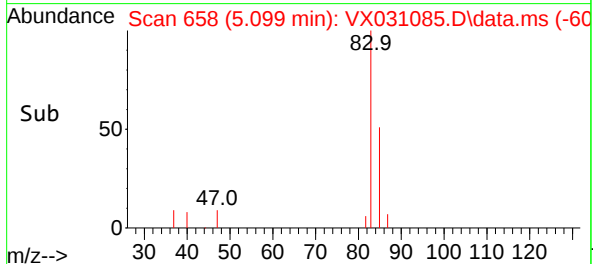
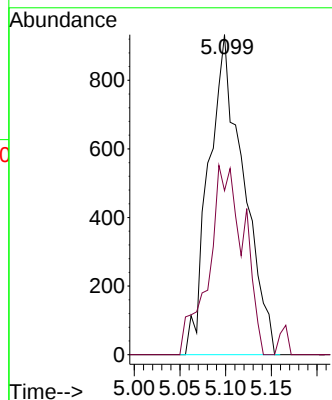
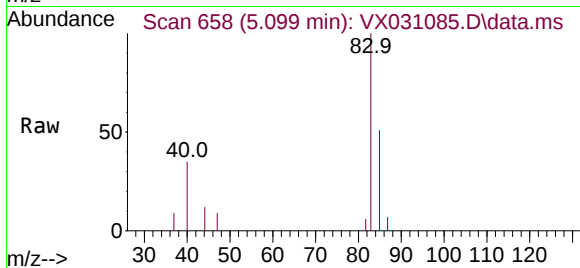
RE120D2-20220822

Tgt Ion: 83 Resp: 2462

Ion Ratio Lower Upper

83 100

85 51.2 51.5 77.3#



#31

Cyclohexane

Concen: 0.867 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.079 min

Lab File: VX031085.D

Acq: 03 Sep 2022 16:16

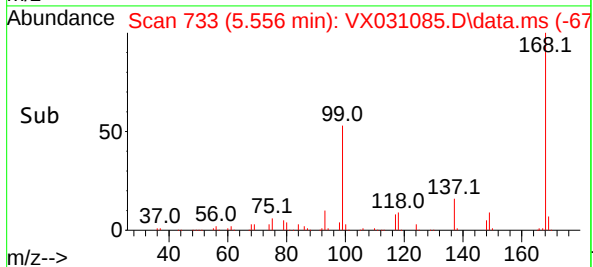
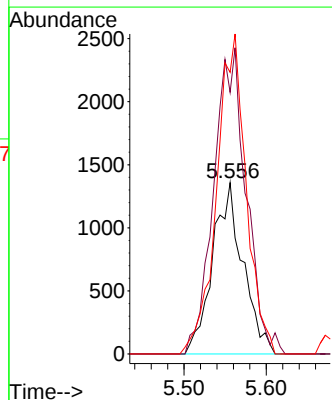
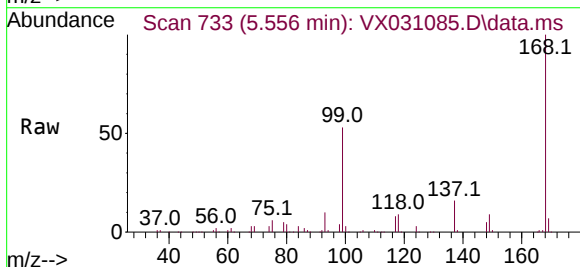
Tgt Ion: 56 Resp: 3489

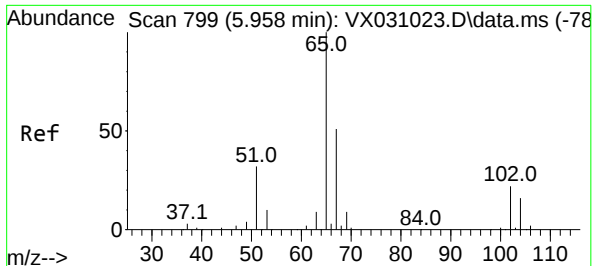
Ion Ratio Lower Upper

56 100

69 152.6 25.4 38.0#

84 164.2 68.9 103.3#





#33

1,2-Dichloroethane-d4

Concen: 47.828 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX031085.D

Acq: 03 Sep 2022 16:16

Instrument :

MSVOA_X

ClientSampleId :

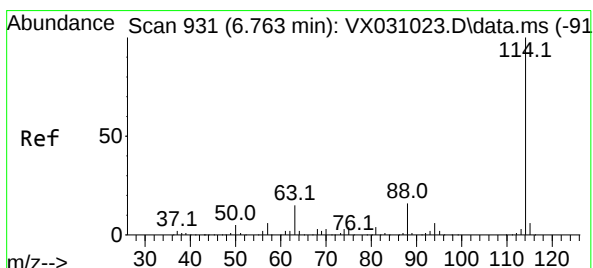
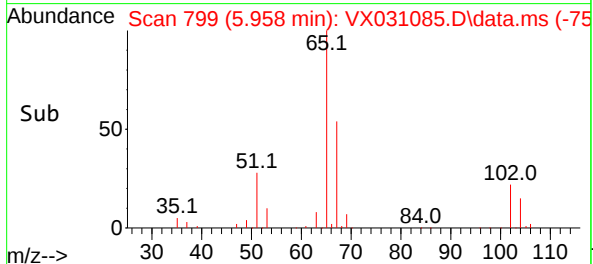
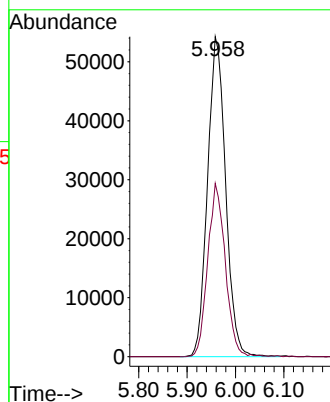
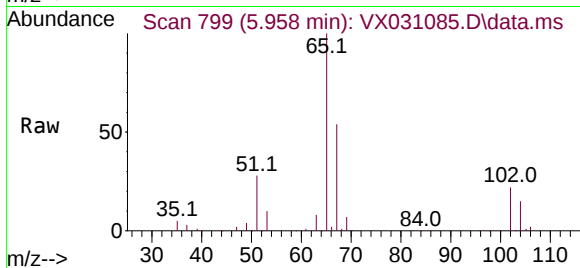
RE120D2-20220822

Tgt Ion: 65 Resp: 140894

Ion Ratio Lower Upper

65 100

67 52.6 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX031085.D

Acq: 03 Sep 2022 16:16

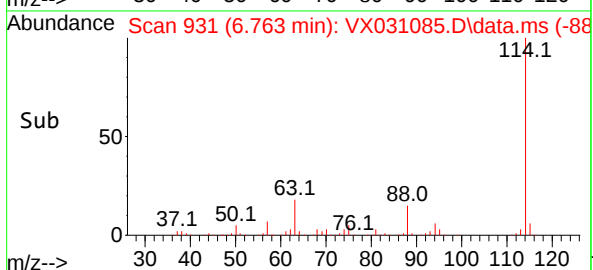
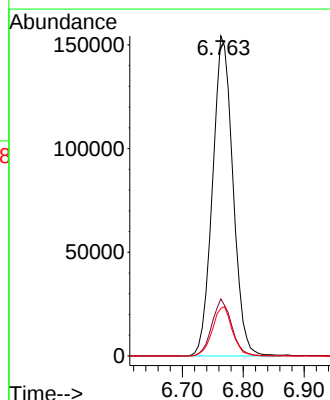
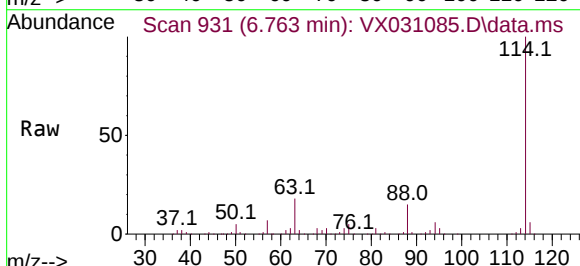
Tgt Ion: 114 Resp: 358878

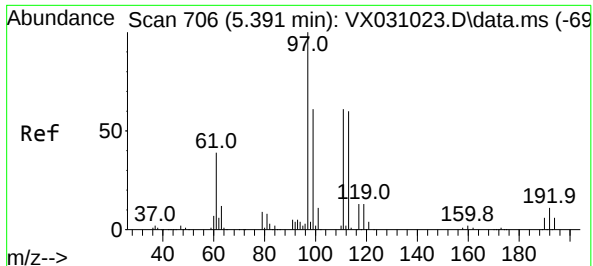
Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.4

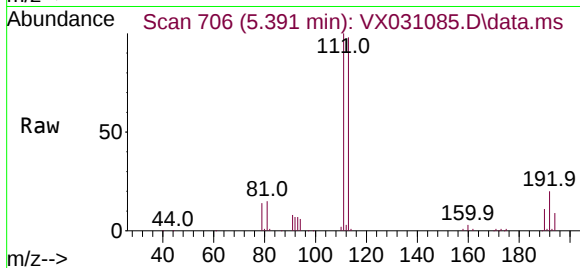
88 14.8 0.0 31.8



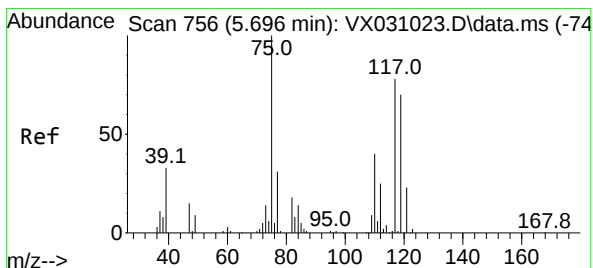
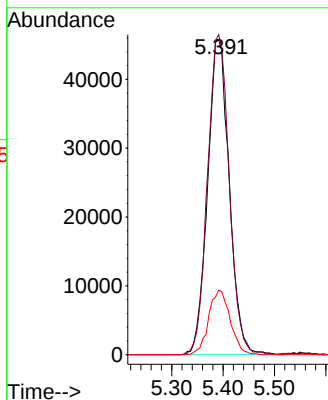
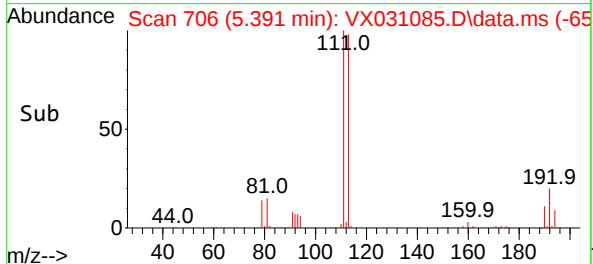


#35
Dibromofluoromethane
Concen: 51.053 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.000 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20220822

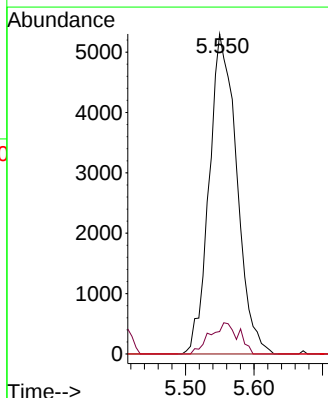
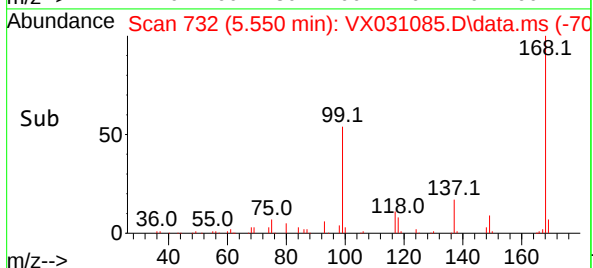
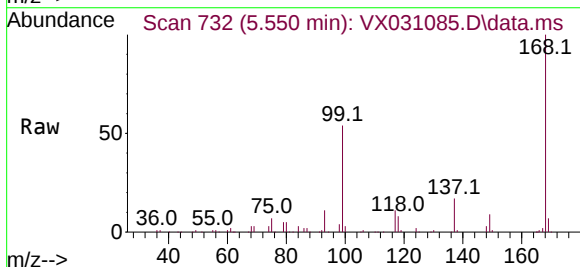


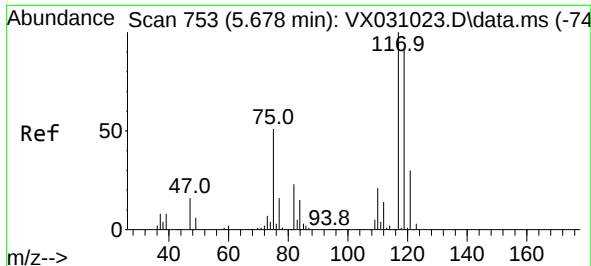
Tgt Ion:113 Resp: 133707
Ion Ratio Lower Upper
113 100
111 101.9 83.2 124.8
192 20.4 14.8 22.2



#36
1,1-Dichloropropene
Concen: 4.035 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.146 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

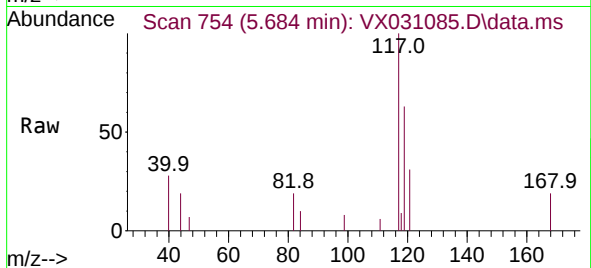
Tgt Ion: 75 Resp: 14802
Ion Ratio Lower Upper
75 100
110 10.1 19.3 57.9#
77 0.0 24.4 36.6#



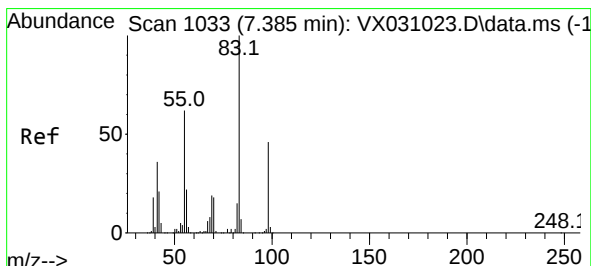
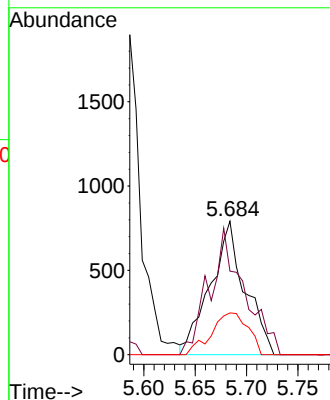
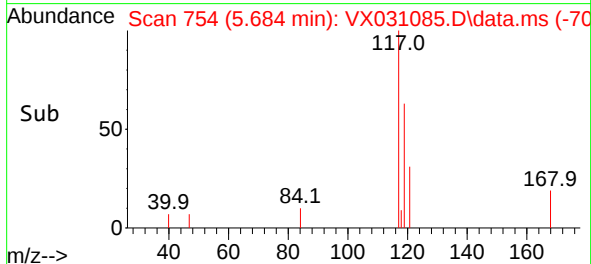


#38
Carbon Tetrachloride
Concen: 0.487 ug/l
RT: 5.684 min Scan# 711
Delta R.T. -0.000 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20220822

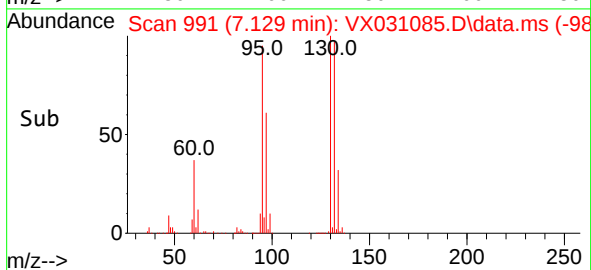
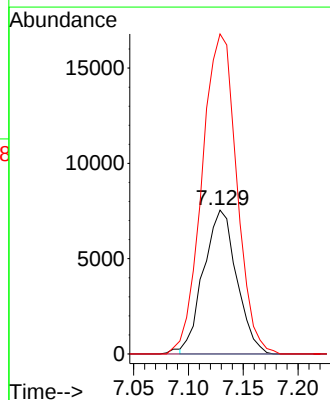
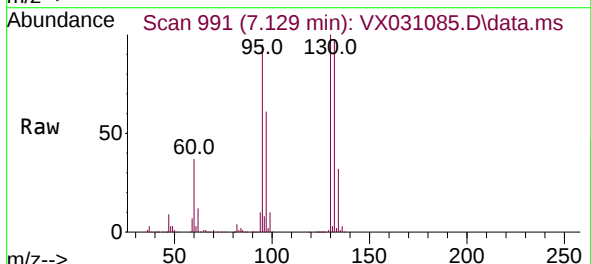


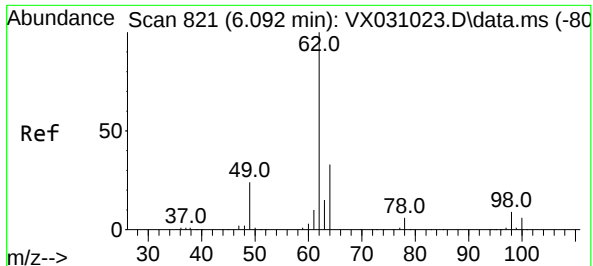
Tgt Ion:117 Resp: 1855
Ion Ratio Lower Upper
117 100
119 62.6 74.1 111.1#
121 31.4 25.8 38.8



#39
Methylcyclohexane
Concen: 3.486 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.256 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Tgt Ion: 83 Resp: 15847
Ion Ratio Lower Upper
83 100
55 0.0 57.7 86.5#
98 222.5 36.5 54.7#





#42

1,2-Dichloroethane

Concen: 0.243 ug/l

RT: 6.111 min Scan# 81

Delta R.T. 0.019 min

Lab File: VX031085.D

Acq: 03 Sep 2022 16:16

Instrument :

MSVOA_X

ClientSampleId :

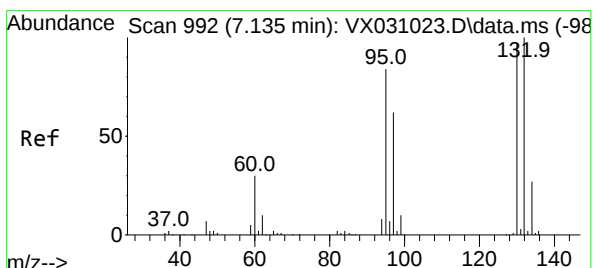
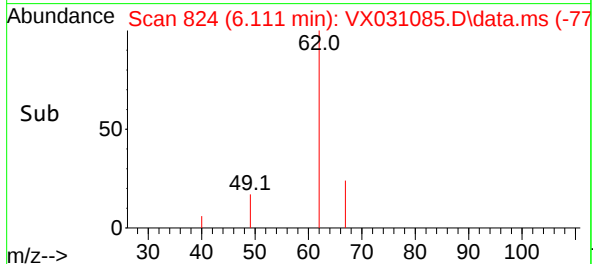
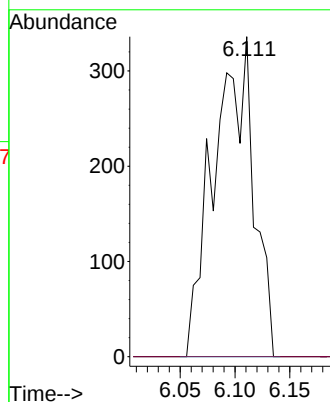
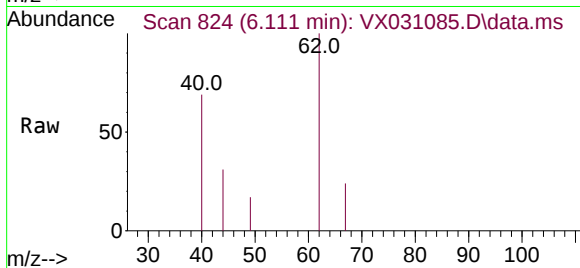
RE120D2-20220822

Tgt Ion: 62 Resp: 845

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2



#44

Trichloroethene

Concen: 455.075 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX031085.D

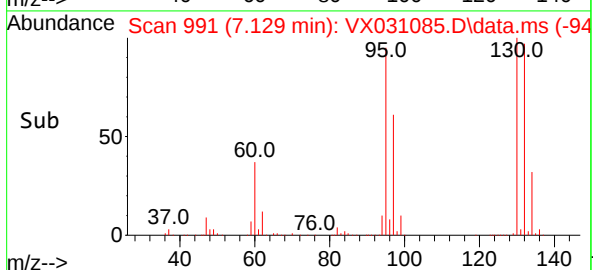
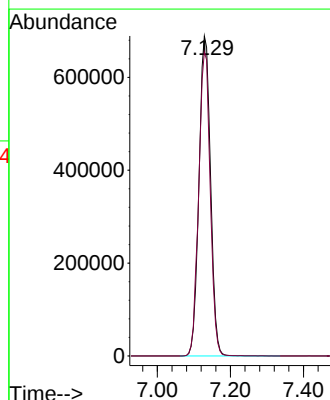
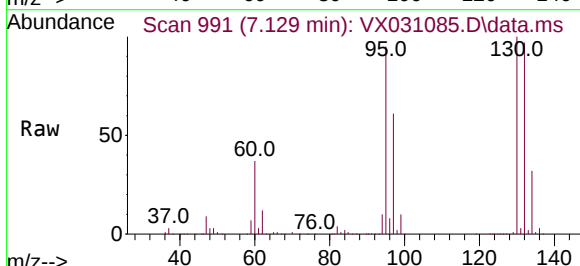
Acq: 03 Sep 2022 16:16

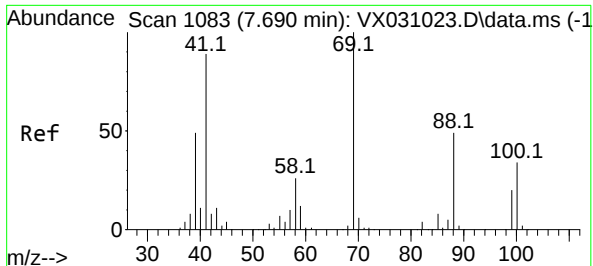
Tgt Ion:130 Resp: 1517040

Ion Ratio Lower Upper

130 100

95 95.0 0.0 194.8





#49

1,4-Dioxane

Concen: 15.531 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. 0.019 min

Lab File: VX031085.D

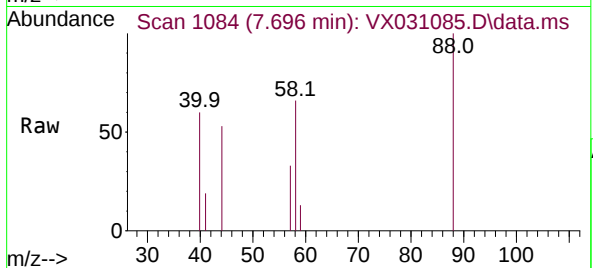
Acq: 03 Sep 2022 16:16

Instrument :

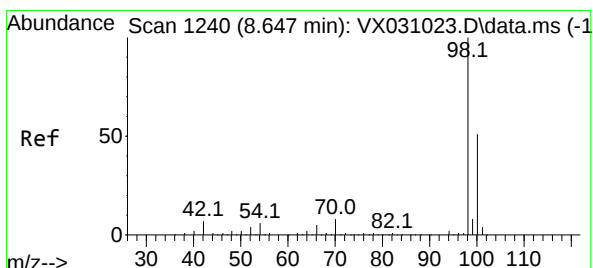
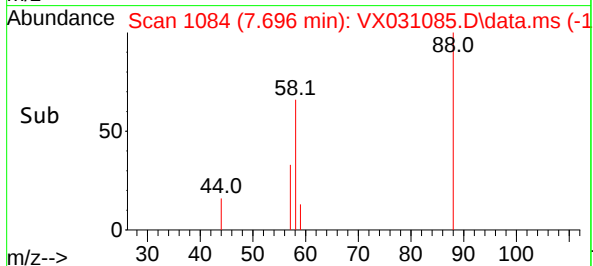
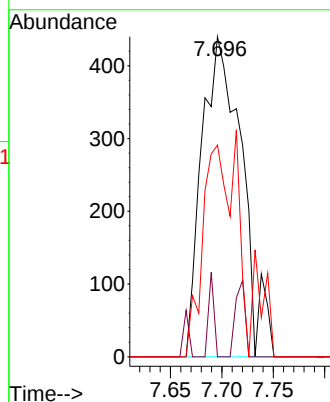
MSVOA_X

ClientSampleId :

RE120D2-20220822



Tgt Ion:	88	Resp:	1188
Ion	Ratio	Lower	Upper
88	100		
43	3.5	23.8	35.8#
58	0.0	53.8	80.6#



#50

Toluene-d8

Concen: 49.519 ug/l

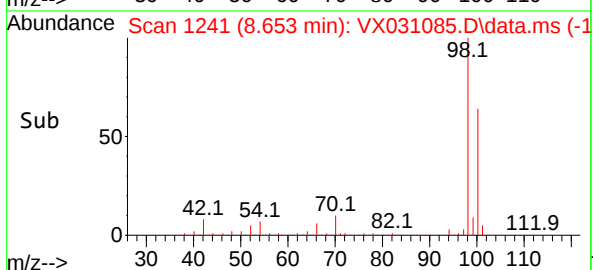
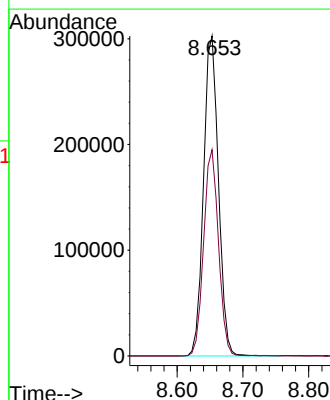
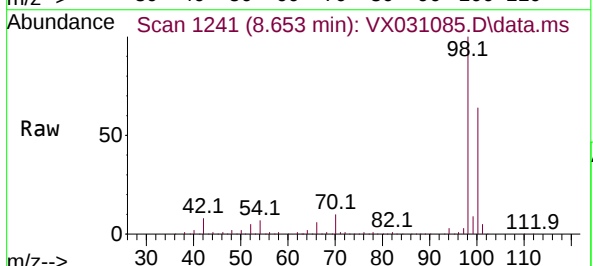
RT: 8.653 min Scan# 1241

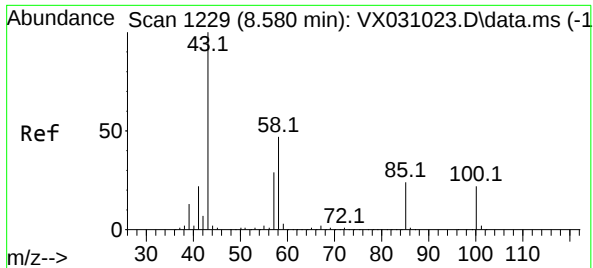
Delta R.T. -0.000 min

Lab File: VX031085.D

Acq: 03 Sep 2022 16:16

Tgt Ion:	98	Resp:	477298
Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.3	78.5

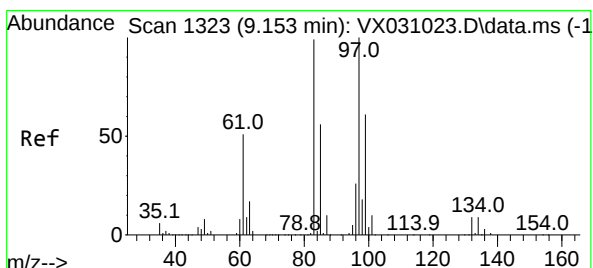
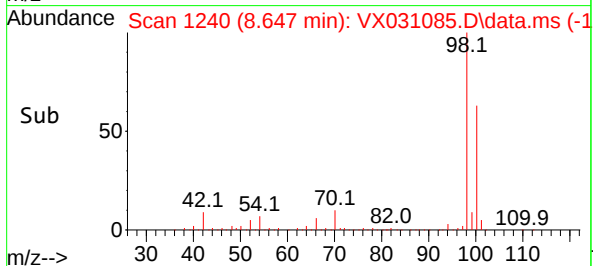
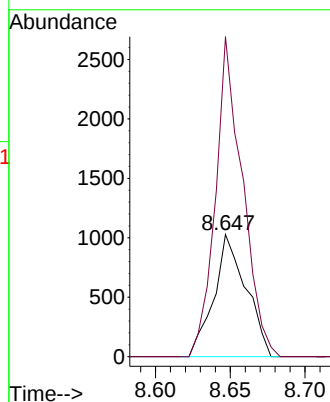
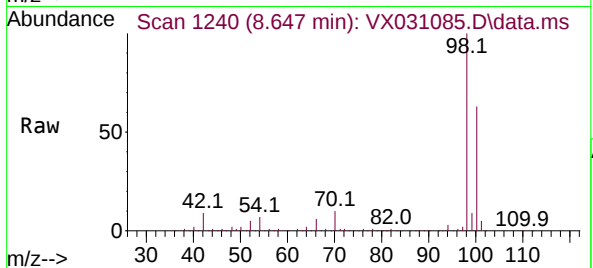




#51
4-Methyl-2-Pentanone
Concen: 0.480 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.067 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

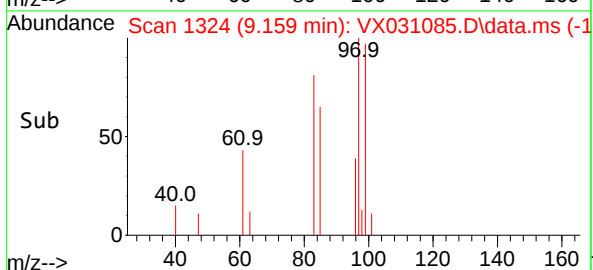
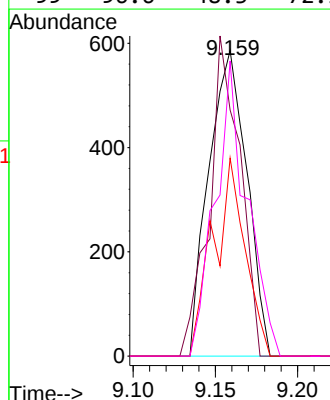
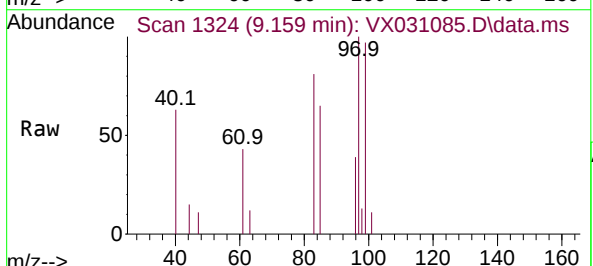
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20220822

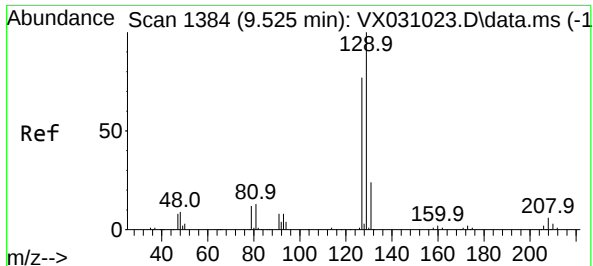
Tgt Ion: 43 Resp: 1538
Ion Ratio Lower Upper
43 100
58 220.6 31.4 47.2#



#55
1,1,2-Trichloroethane
Concen: 0.324 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Tgt Ion: 97 Resp: 942
Ion Ratio Lower Upper
97 100
83 80.5 68.9 103.3
85 64.8 44.0 66.0
99 96.6 48.3 72.5#

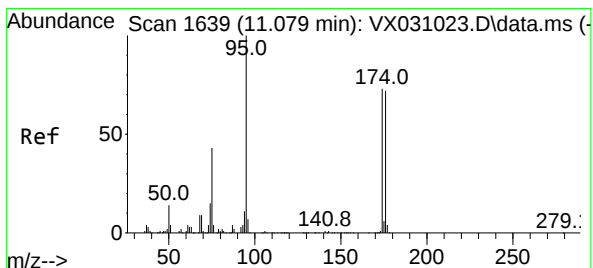
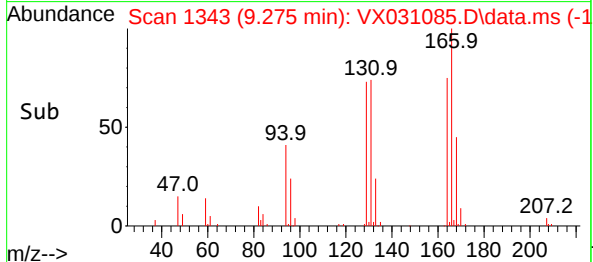
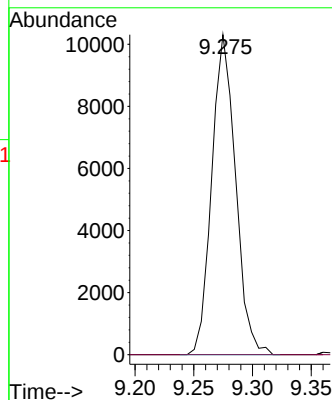
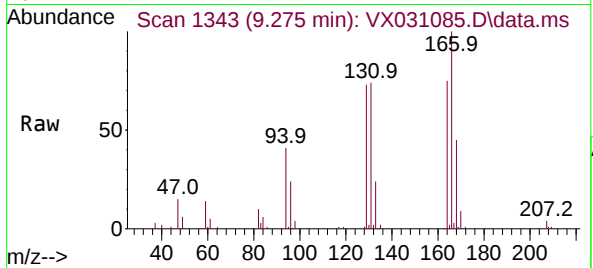




#60
Dibromochloromethane
Concen: 4.827 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

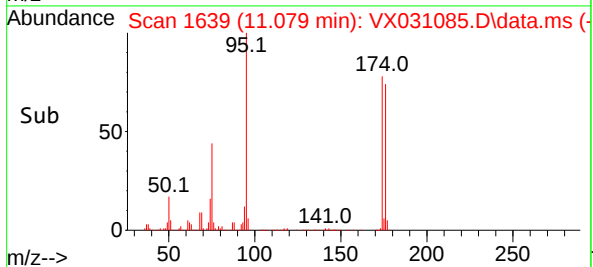
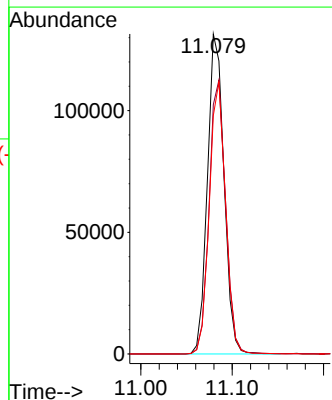
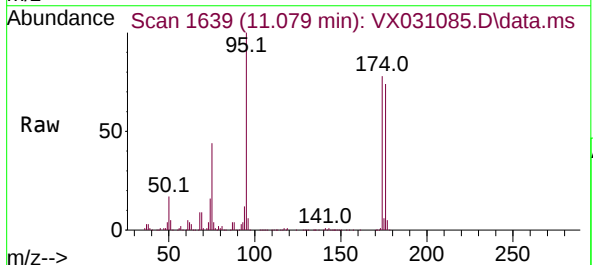
Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20220822

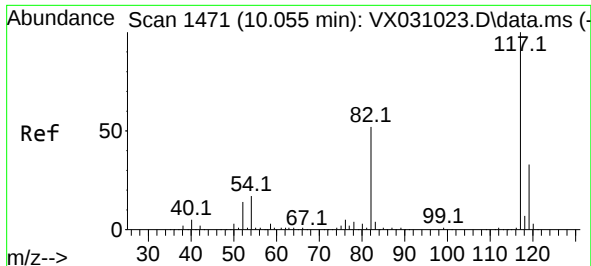
Tgt Ion:129 Resp: 14554
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 48.577 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.006 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

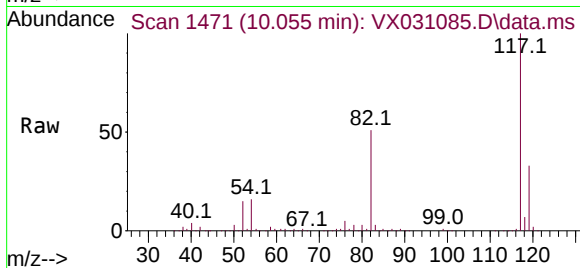
Tgt Ion: 95 Resp: 165373
Ion Ratio Lower Upper
95 100
174 85.2 0.0 149.0
176 83.6 0.0 146.0



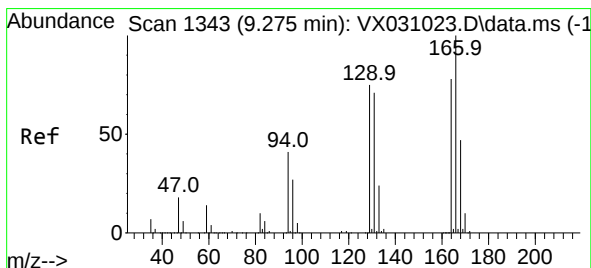
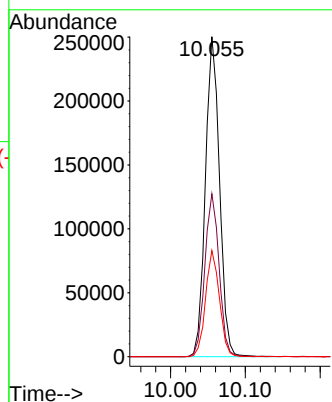
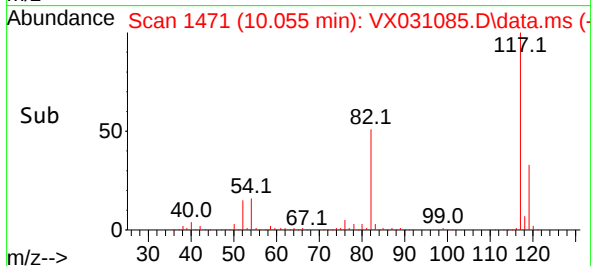


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Instrument :
MSVOA_X
ClientSampleId :
RE120D2-20220822

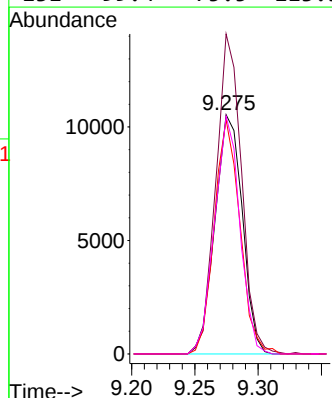
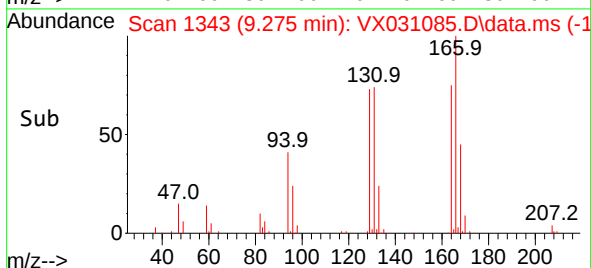
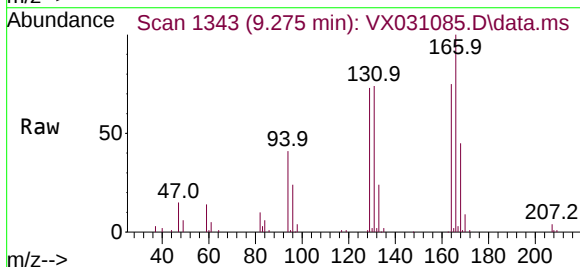


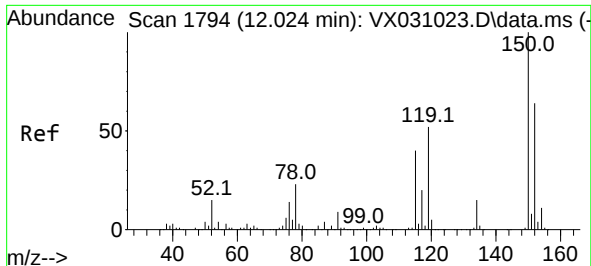
Tgt Ion:117 Resp: 328559
Ion Ratio Lower Upper
117 100
82 50.9 42.7 64.1
119 33.2 25.4 38.2



#64
Tetrachloroethene
Concen: 4.822 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX031085.D
Acq: 03 Sep 2022 16:16

Tgt Ion:164 Resp: 15818
Ion Ratio Lower Upper
164 100
166 133.8 98.2 147.4
129 97.8 80.8 121.2
131 99.4 75.5 113.3

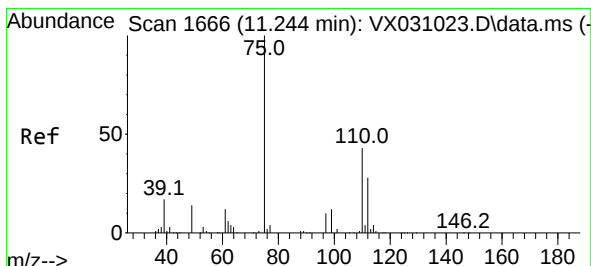
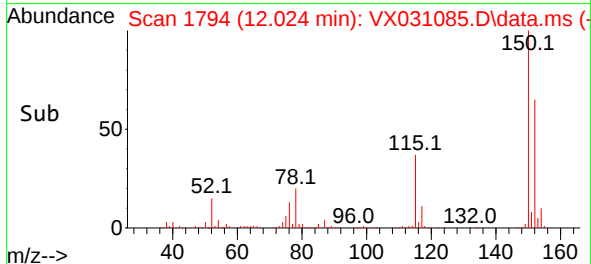
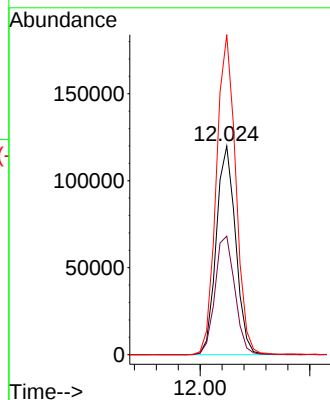
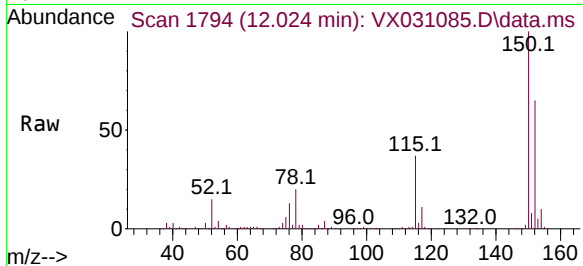




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX031085.D
 Acq: 03 Sep 2022 16:16

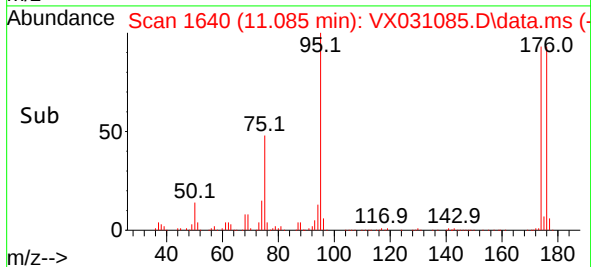
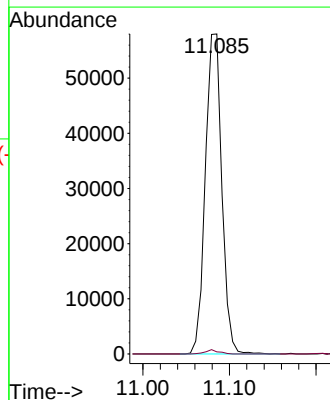
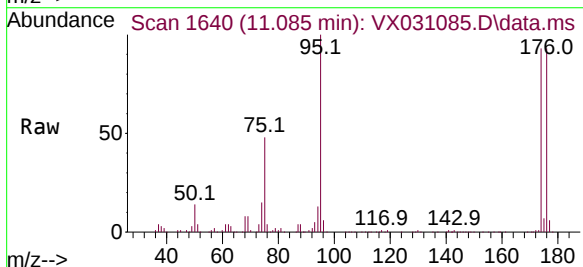
Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D2-20220822

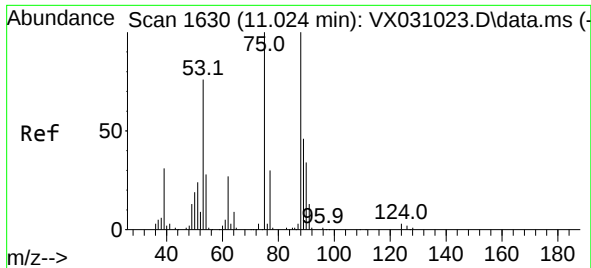
Tgt Ion:152 Resp: 147038
 Ion Ratio Lower Upper
 152 100
 115 58.4 40.5 121.5
 150 153.9 0.0 347.0



#76
 1,2,3-Trichloropropane
 Concen: 22.080 ug/l
 RT: 11.085 min Scan# 1640
 Delta R.T. -0.159 min
 Lab File: VX031085.D
 Acq: 03 Sep 2022 16:16

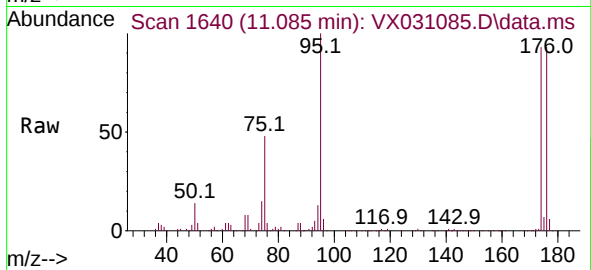
Tgt Ion: 75 Resp: 76748
 Ion Ratio Lower Upper
 75 100
 77 1.0 19.8 59.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.393 ug/l
 RT: 11.085 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX031085.D
 Acq: 03 Sep 2022 16:16

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D2-20220822



Tgt Ion: 75 Resp: 76748
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.2 111.4#
 89 0.2 34.8 52.2#

