

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031722\
 Data File : VY007880.D
 Acq On : 17 Mar 2022 17:29
 Operator : SY/MD
 Sample : N1853-04RE
 Misc : 6.36g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SR-EX2B-BASE-02RE

Quant Time: Mar 17 18:23:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y031722S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 17 13:55:34 2022
 Response via : Initial Calibration

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

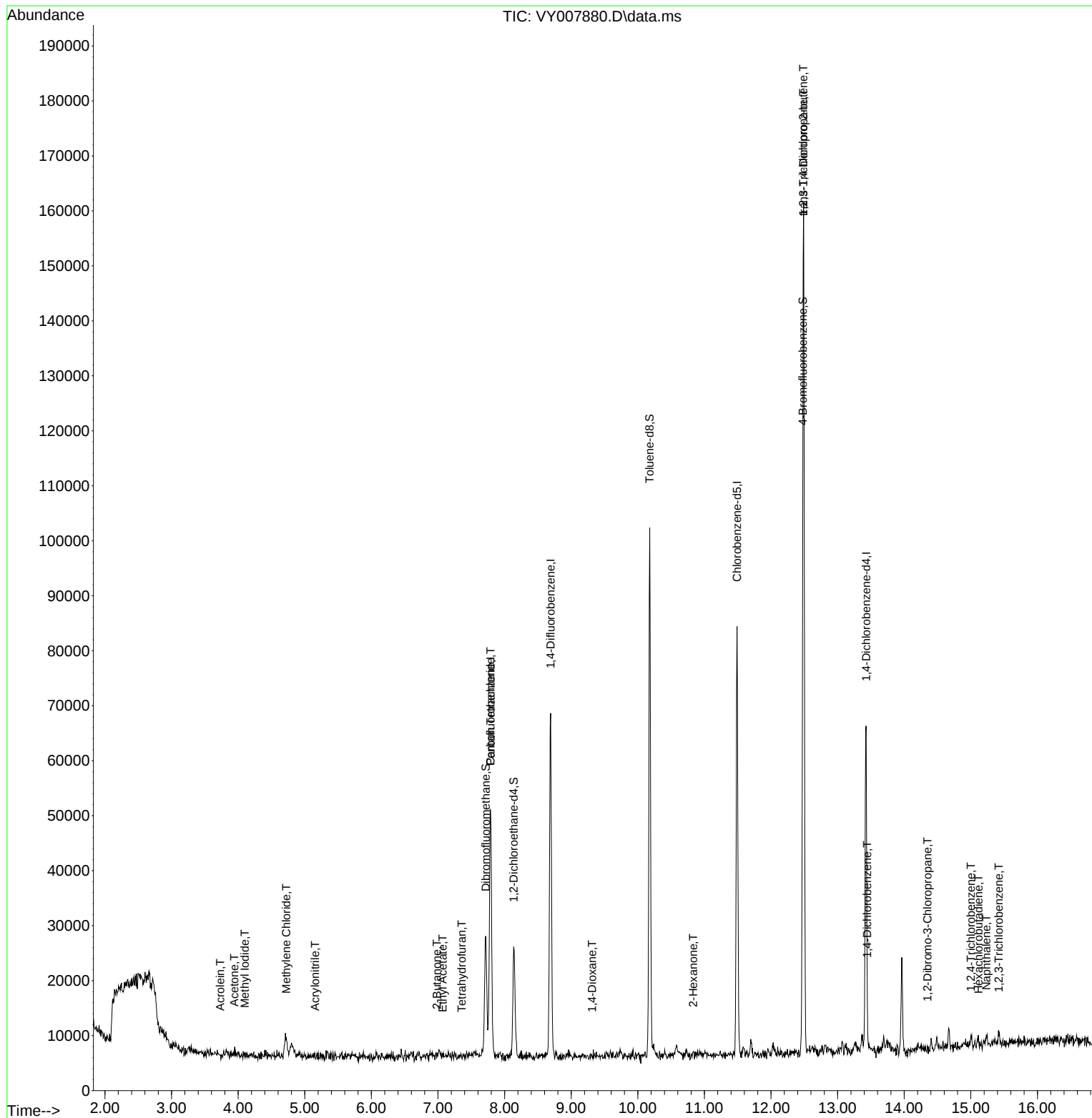
Internal Standards						
1) Pentafluorobenzene	7.789	168	36023	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	56233	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	43727	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	15545	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	15215	37.044	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	74.080%		
35) Dibromofluoromethane	7.716	113	15429	39.069	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	78.140%		
50) Toluene-d8	10.179	98	62305	52.568	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	105.140%		
62) 4-Bromofluorobenzene	12.477	95	18297	32.282	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	64.560%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.912	85	77	Below Cal	#	67
3) Chloromethane	2.113	50	639	Below Cal	#	73
4) Vinyl Chloride	2.278	62	466	Below Cal	#	43
5) Bromomethane	2.656	94	889	Below Cal	#	62
10) Methyl Iodide	4.101	142	402	1.019	ug/l #	88
13) Acrolein	3.729	56	158	5.482	ug/l #	32
15) Acrylonitrile	5.155	53	139	1.064	ug/l #	33
16) Acetone	3.942	43	1722	15.804	ug/l	90
18) Methyl Acetate	4.485	43	215	Below Cal	#	56
20) Methylene Chloride	4.722	84	2686	1.910	ug/l	91
25) 2-Butanone	6.984	43	203	1.163	ug/l #	54
29) Tetrahydrofuran	7.356	42	138	1.234	ug/l #	54
31) Cyclohexane	7.789	56	911	Below Cal	#	7
37) Ethyl Acetate	7.069	43	457	1.279	ug/l #	78
38) Carbon Tetrachloride	7.789	117	3843	6.140	ug/l #	18
39) Methylcyclohexane	9.185	83	31	Below Cal	#	1
49) 1,4-Dioxane	9.313	88	26	7.081	ug/l #	1
59) 2-Hexanone	10.831	43	275	1.059	ug/l	92
76) 1,2,3-Trichloropropane	12.483	75	10119	45.670	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	10119	95.925	ug/l #	10
88) 1,4-Dichlorobenzene	13.446	146	699	1.142	ug/l	92
92) 1,2-Dibromo-3-Chloropr...	14.349	75	200	3.947	ug/l #	6
93) 1,2,4-Trichlorobenzene	15.001	180	478	1.377	ug/l #	15
94) Hexachlorobutadiene	15.117	225	197	1.063	ug/l	89
95) Naphthalene	15.233	128	1403	1.811	ug/l	95
96) 1,2,3-Trichlorobenzene	15.422	180	552	1.802	ug/l	96

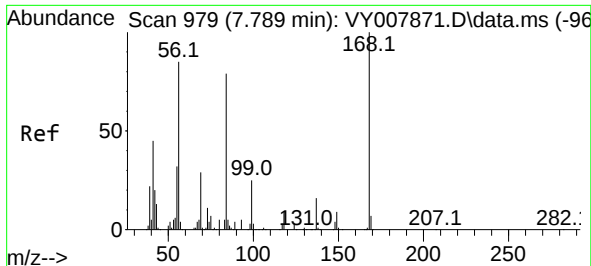
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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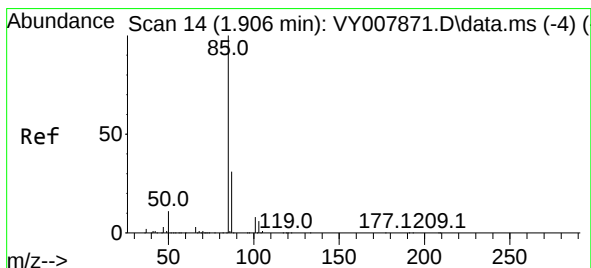
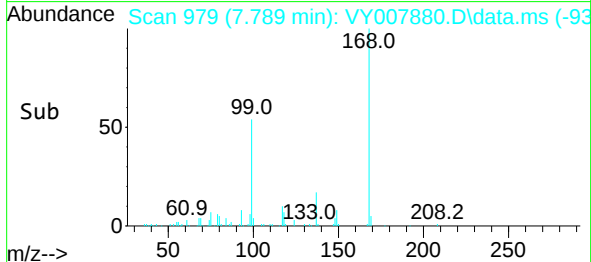
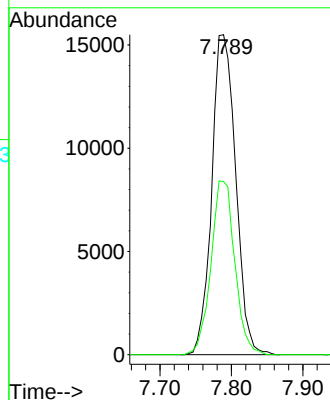
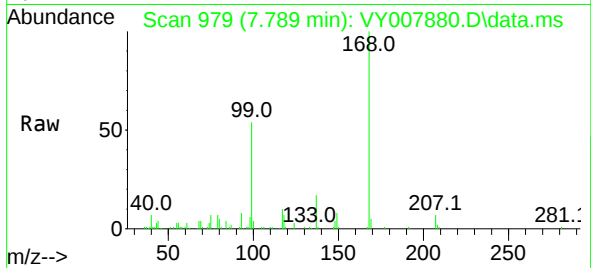




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

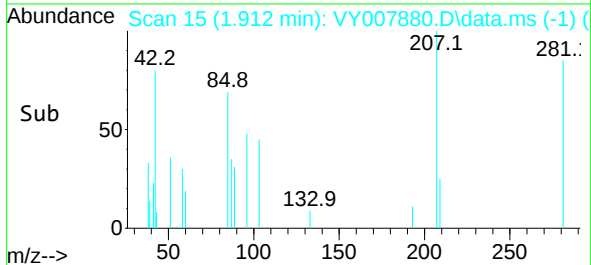
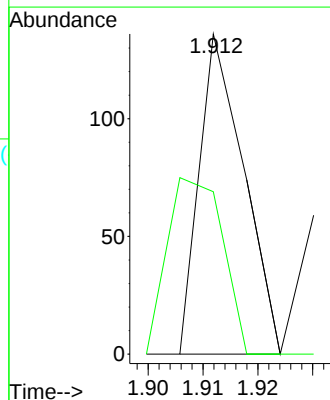
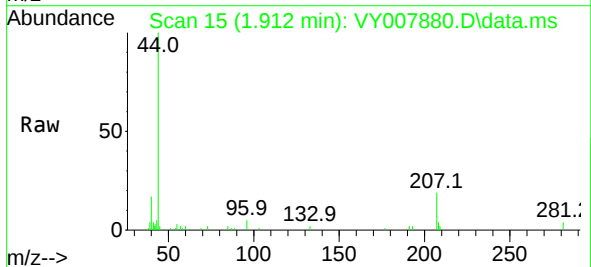
Instrument :
MSVOA_Y
ClientSampleId :
SR-EX2B-BASE-02RE

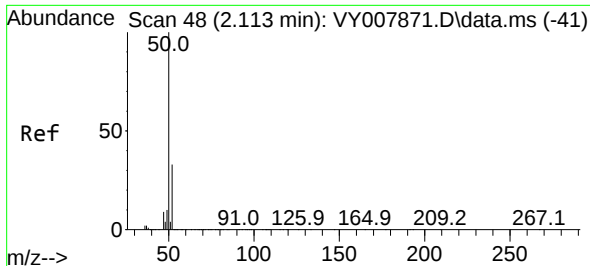
Tgt Ion:168 Resp: 36023
Ion Ratio Lower Upper
168 100
99 54.1 46.9 70.3



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.912 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion: 85 Resp: 77
Ion Ratio Lower Upper
85 100
87 50.7 16.1 48.2#

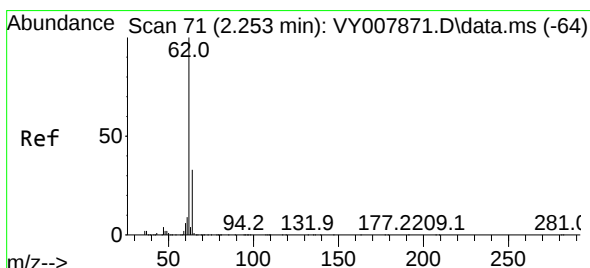
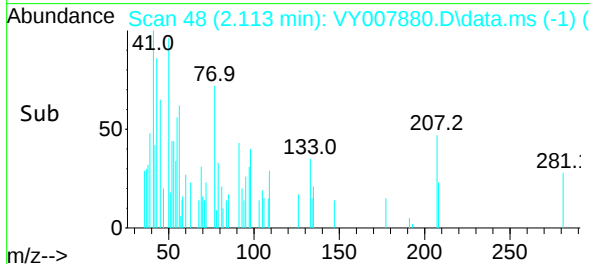
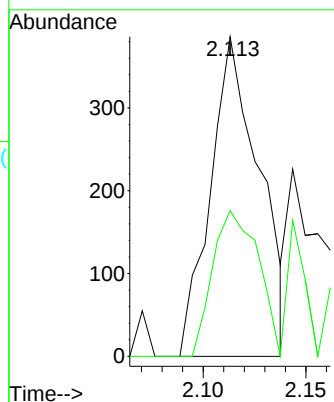
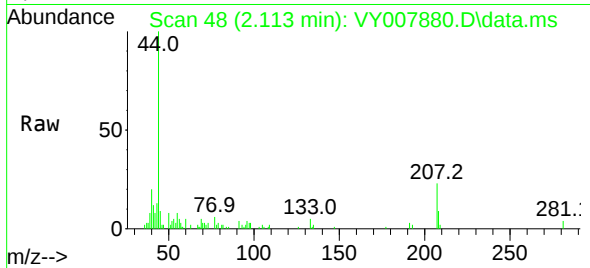




#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

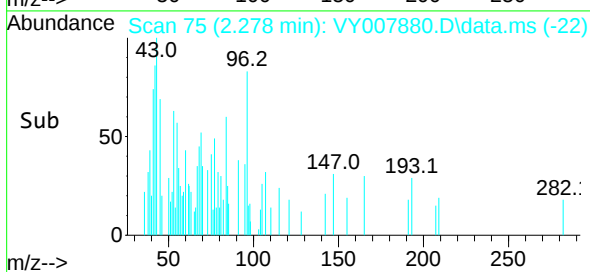
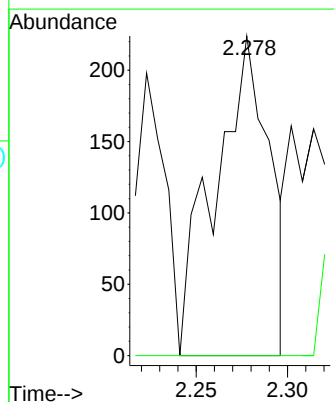
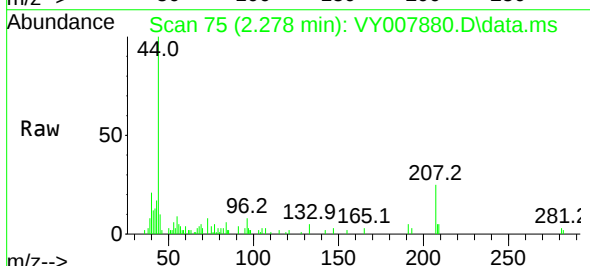
Instrument :
MSVOA_Y
ClientSampleId :
SR-EX2B-BASE-02RE

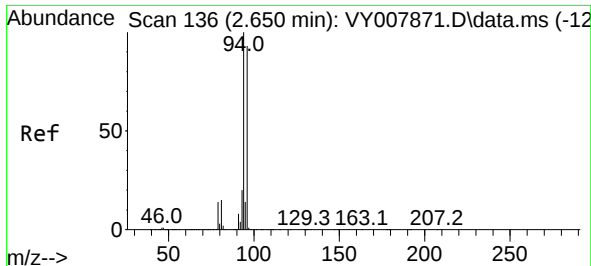
Tgt Ion: 50 Resp: 639
Ion Ratio Lower Upper
50 100
52 45.6 24.6 37.0#



#4
Vinyl Chloride
Concen: Below Cal
RT: 2.278 min Scan# 75
Delta R.T. 0.024 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion: 62 Resp: 466
Ion Ratio Lower Upper
62 100
64 0.0 25.0 37.6#





#5

Bromomethane

Concen: Below Cal

RT: 2.656 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

Instrument :

MSVOA_Y

ClientSampleId :

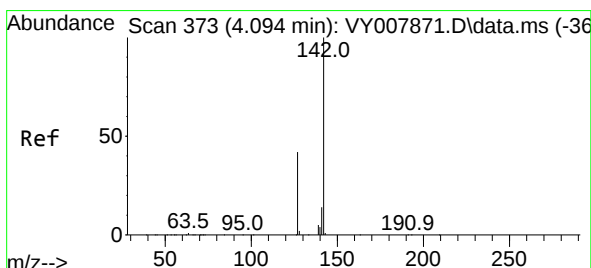
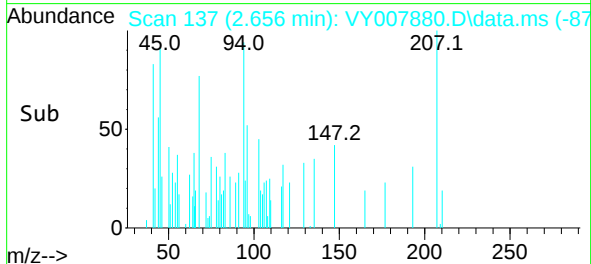
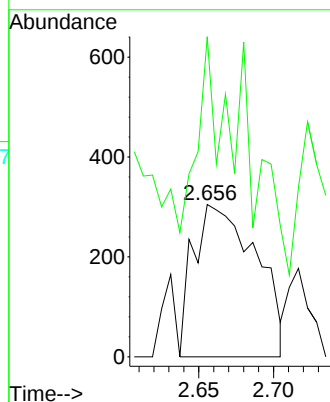
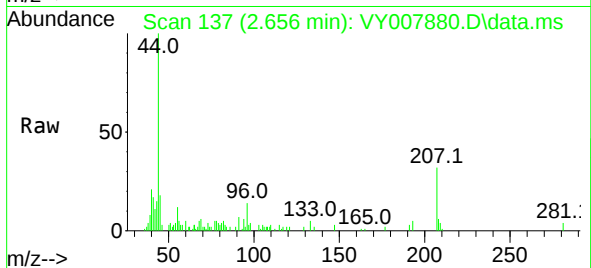
SR-EX2B-BASE-02RE

Tgt Ion: 94 Resp: 889

Ion Ratio Lower Upper

94 100

96 128.5 73.5 110.3#



#10

Methyl Iodide

Concen: 1.019 ug/l

RT: 4.101 min Scan# 374

Delta R.T. 0.012 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

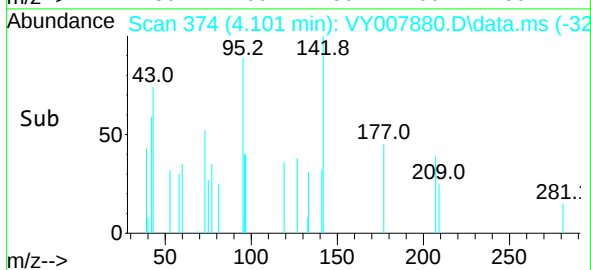
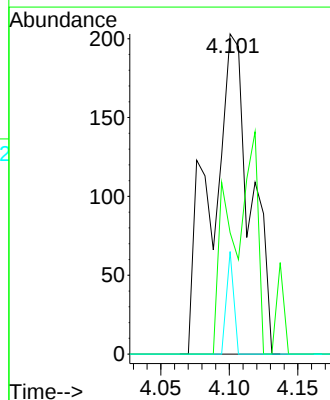
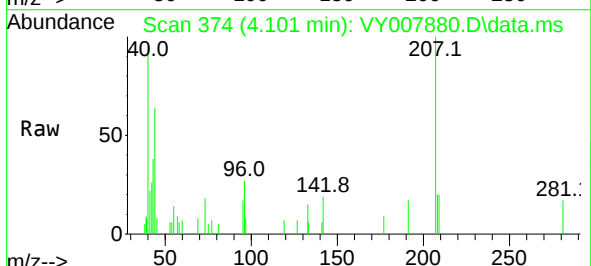
Tgt Ion:142 Resp: 402

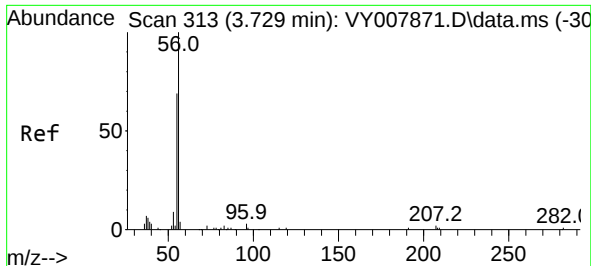
Ion Ratio Lower Upper

142 100

127 45.3 41.5 62.3

141 6.0 11.9 17.9#

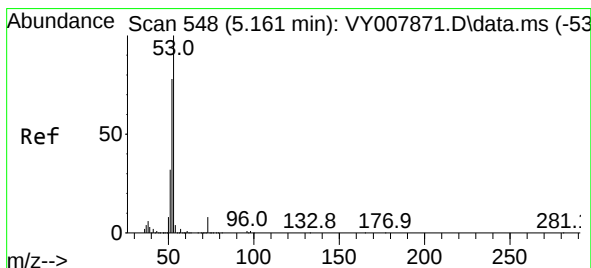
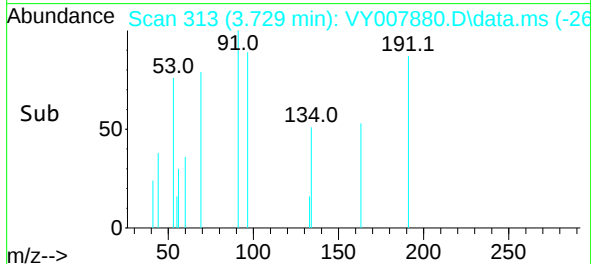
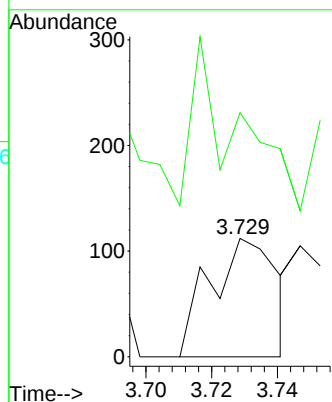
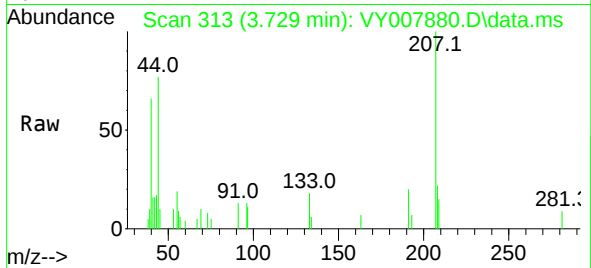




#13
Acrolein
Concen: 5.482 ug/l
RT: 3.729 min Scan# 313
Delta R.T. -0.000 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

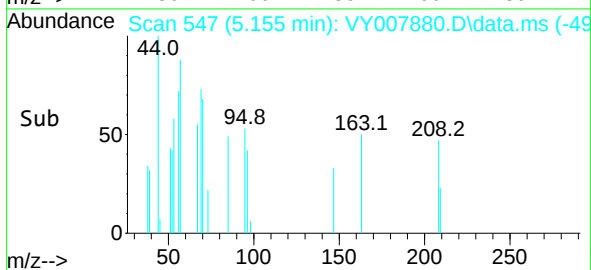
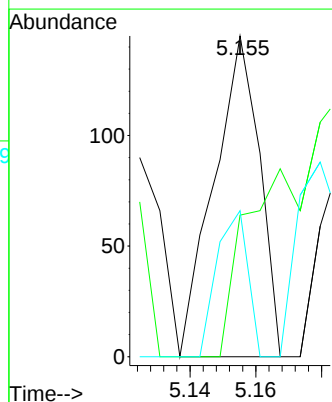
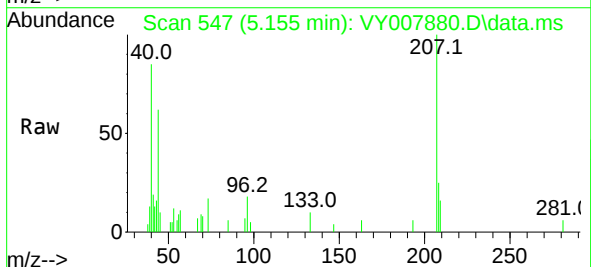
Instrument :
MSVOA_Y
ClientSampleId :
SR-EX2B-BASE-02RE

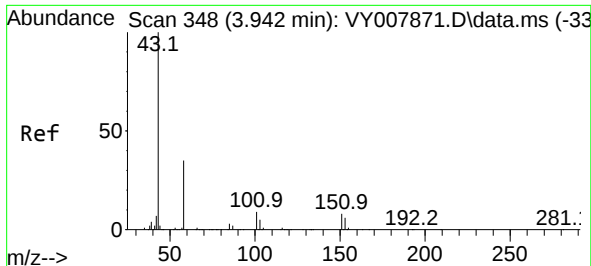
Tgt Ion: 56 Resp: 158
Ion Ratio Lower Upper
56 100
55 128.5 57.6 86.4#



#15
Acrylonitrile
Concen: 1.064 ug/l
RT: 5.155 min Scan# 547
Delta R.T. -0.006 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion: 53 Resp: 139
Ion Ratio Lower Upper
53 100
52 0.0 67.0 100.4#
51 30.9 29.8 44.6

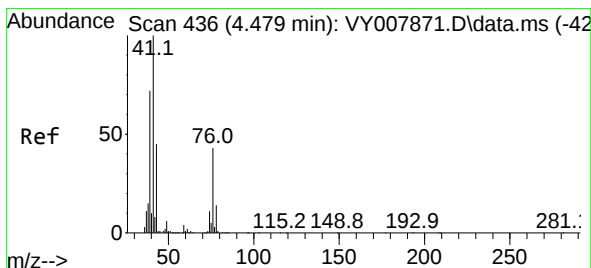
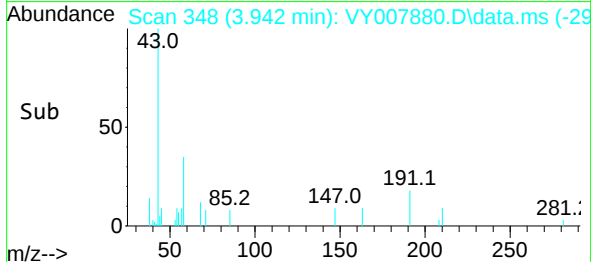
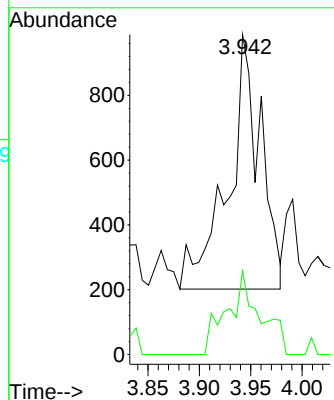
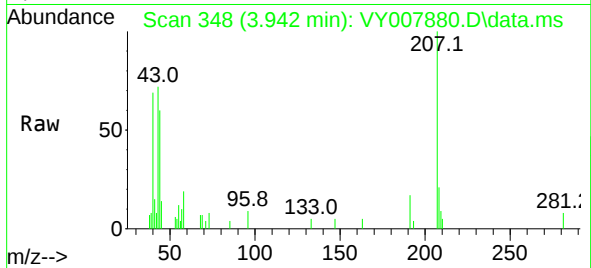




#16
Acetone
Concen: 15.804 ug/l
RT: 3.942 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

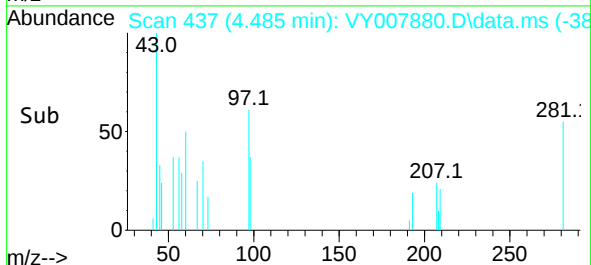
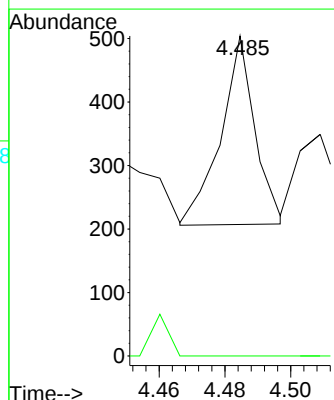
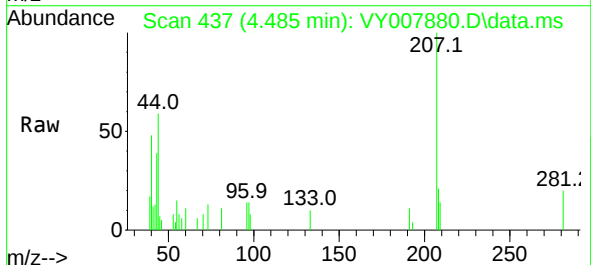
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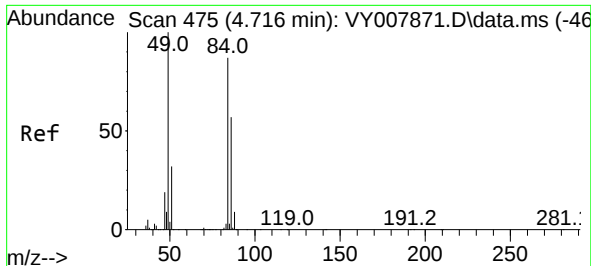
Tgt Ion: 43 Resp: 1722
Ion Ratio Lower Upper
43 100
58 32.9 22.0 33.0



#18
Methyl Acetate
Concen: Below Cal
RT: 4.485 min Scan# 437
Delta R.T. 0.012 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion: 43 Resp: 215
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#

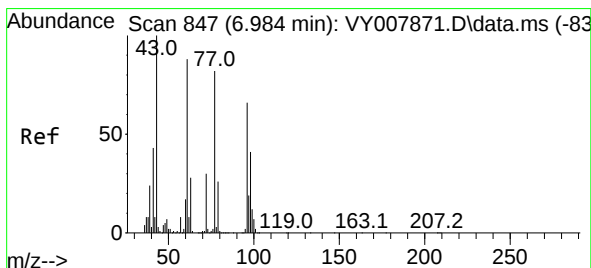
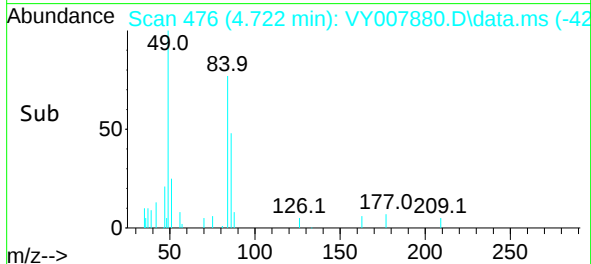
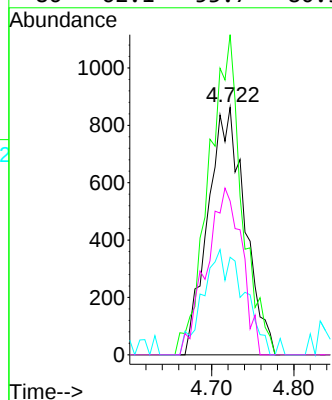
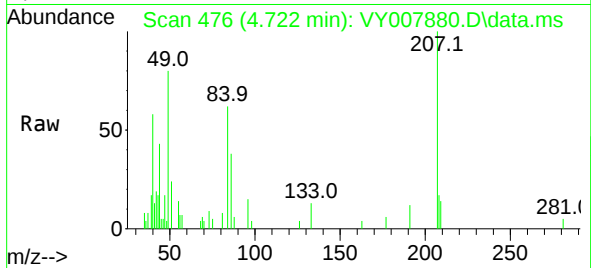




#20
Methylene Chloride
Concen: 1.910 ug/l
RT: 4.722 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

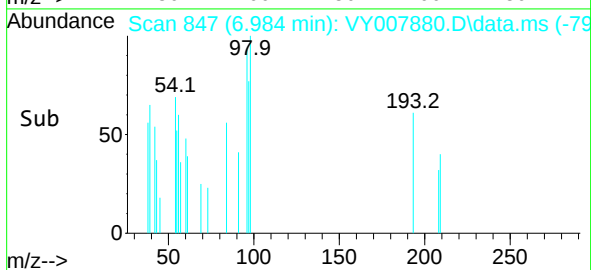
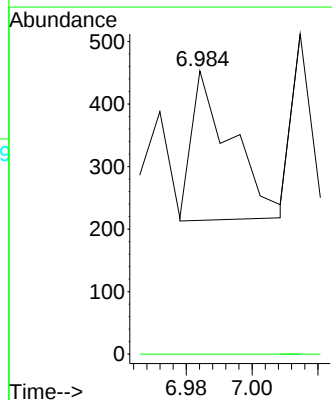
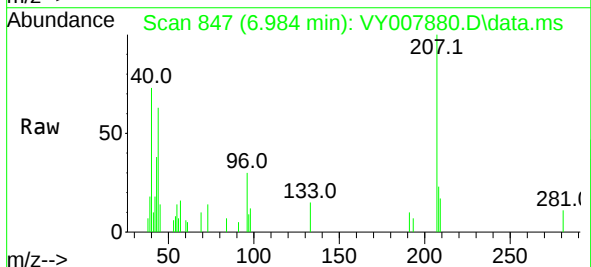
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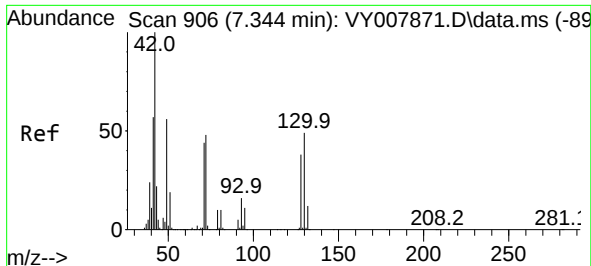
Tgt Ion: 84 Resp: 2686
Ion Ratio Lower Upper
84 100
49 129.3 114.4 171.6
51 39.4 35.3 52.9
86 62.1 53.7 80.5



#25
2-Butanone
Concen: 1.163 ug/l
RT: 6.984 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
72 0.0 17.7 26.5#





#29

Tetrahydrofuran

Concen: 1.234 ug/l

RT: 7.356 min Scan# 906

Delta R.T. 0.012 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

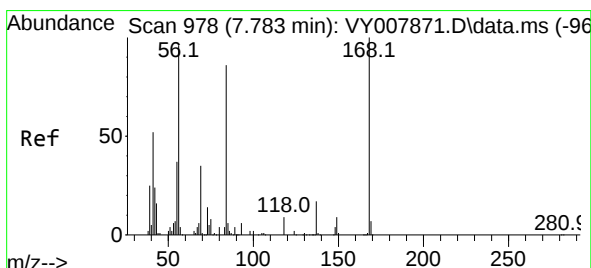
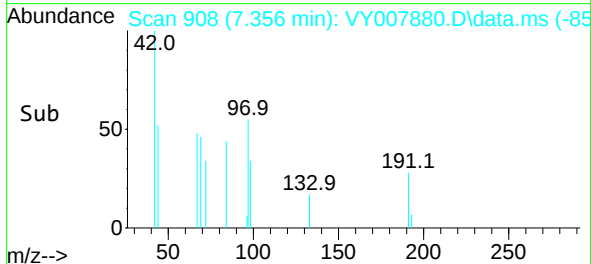
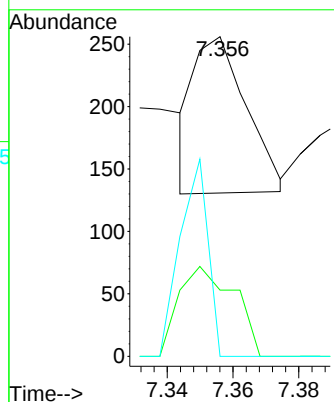
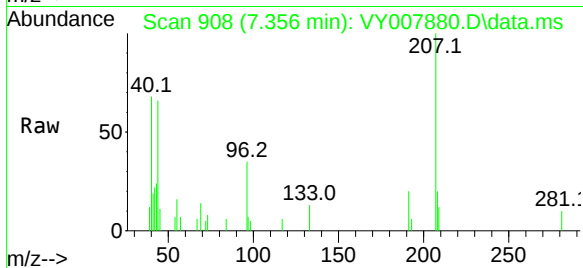
Instrument :

MSVOA_Y

ClientSampleId :

SR-EX2B-BASE-02RE

Tgt Ion:	42	Resp:	138
Ion	Ratio	Lower	Upper
42	100		
72	61.6	30.3	45.5#
71	67.4	29.0	43.4#



#31

Cyclohexane

Concen: Below Cal

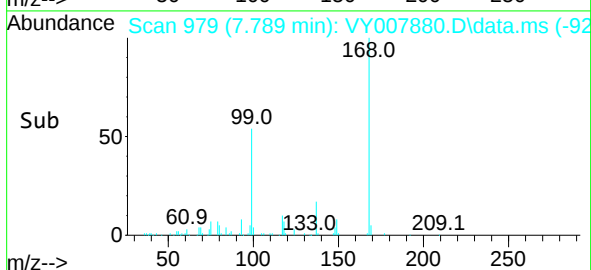
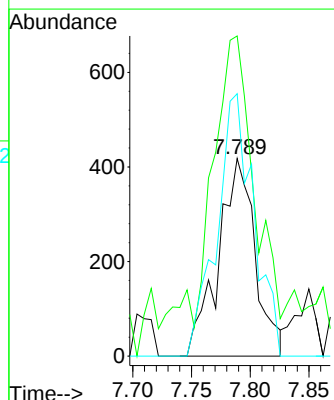
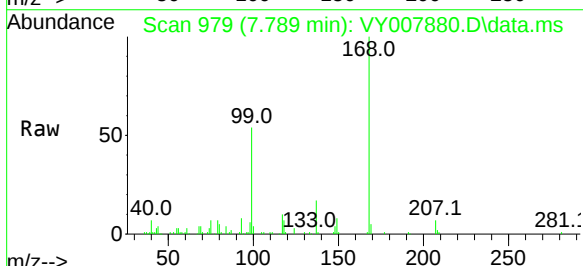
RT: 7.789 min Scan# 979

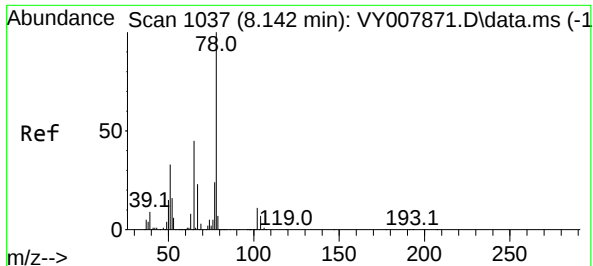
Delta R.T. 0.006 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

Tgt Ion:	56	Resp:	911
Ion	Ratio	Lower	Upper
56	100		
69	143.1	26.7	40.1#
84	132.8	67.2	100.8#





#33

1,2-Dichloroethane-d4

Concen: 37.044 ug/l

RT: 8.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

Instrument :

MSVOA_Y

ClientSampleId :

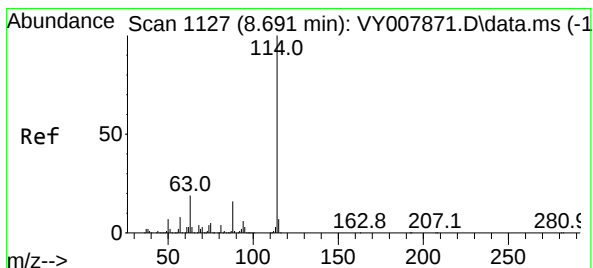
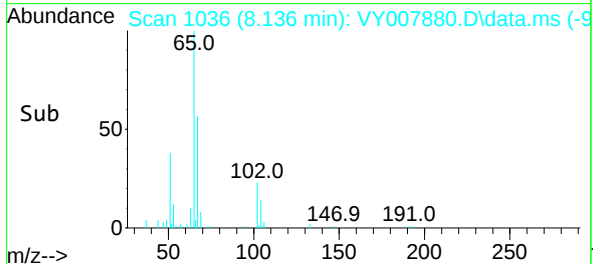
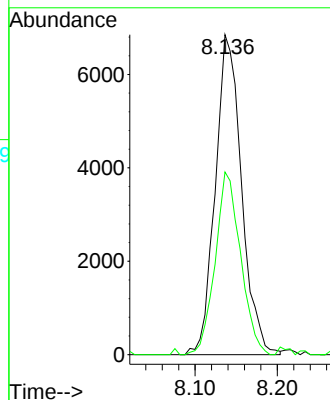
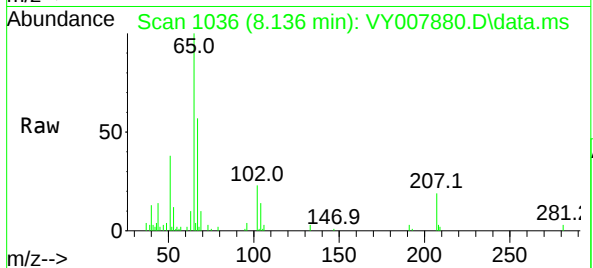
SR-EX2B-BASE-02RE

Tgt Ion: 65 Resp: 15215

Ion Ratio Lower Upper

65 100

67 55.2 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

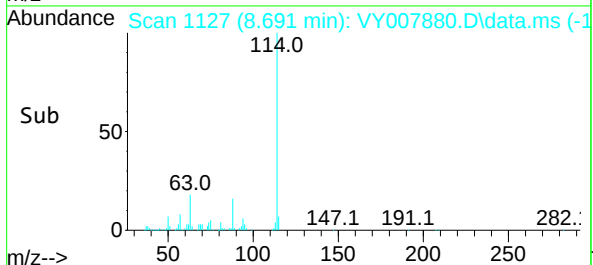
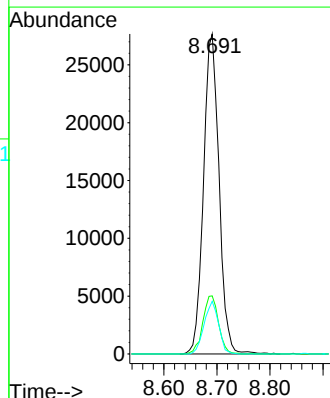
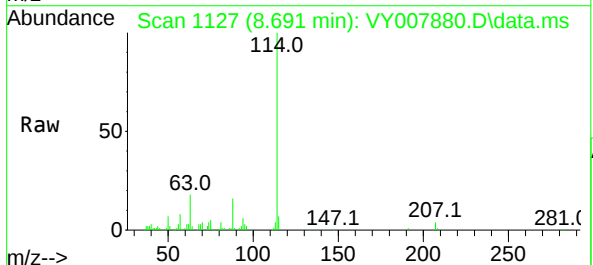
Tgt Ion: 114 Resp: 56233

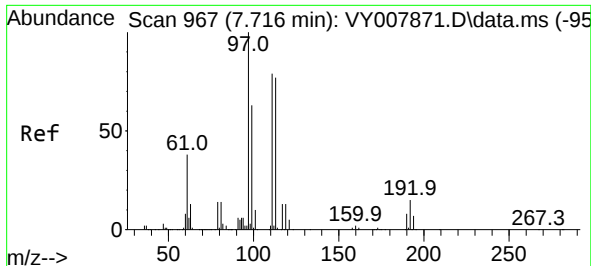
Ion Ratio Lower Upper

114 100

63 18.2 0.0 43.2

88 16.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 39.069 ug/l

RT: 7.716 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

Instrument :

MSVOA_Y

ClientSampleId :

SR-EX2B-BASE-02RE

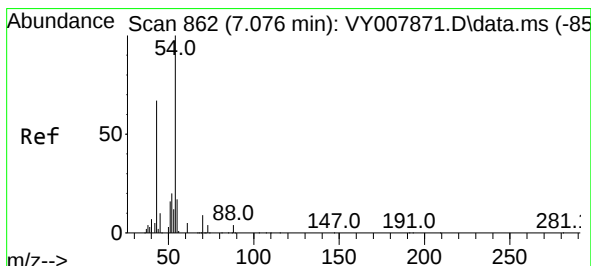
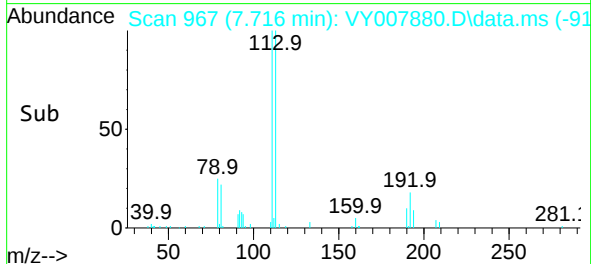
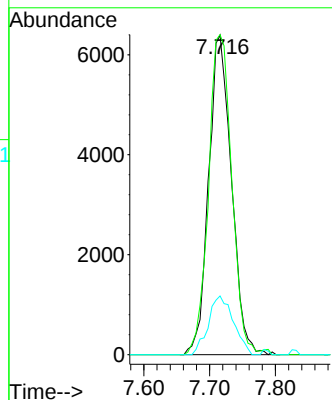
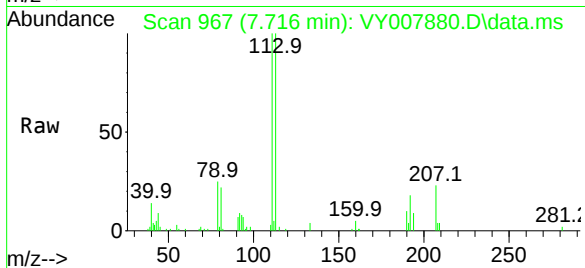
Tgt Ion:113 Resp: 15429

Ion Ratio Lower Upper

113 100

111 102.1 82.6 124.0

192 20.2 17.6 26.4



#37

Ethyl Acetate

Concen: 1.279 ug/l

RT: 7.069 min Scan# 861

Delta R.T. -0.000 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

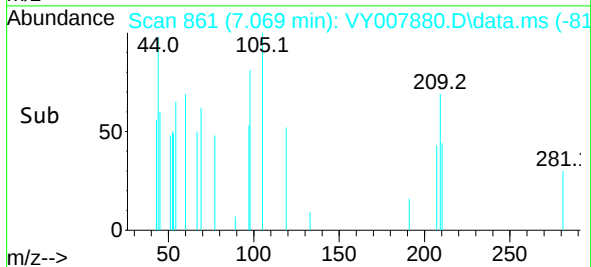
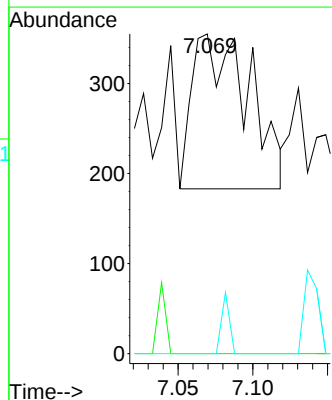
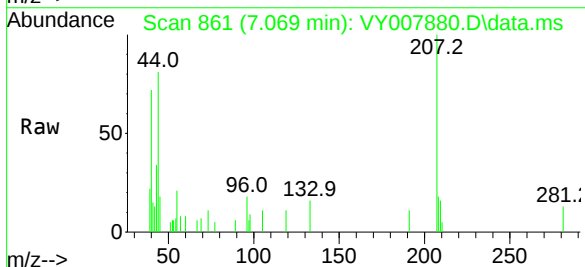
Tgt Ion: 43 Resp: 457

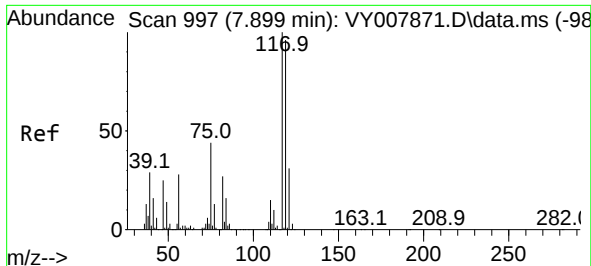
Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 5.5 7.1 10.7#

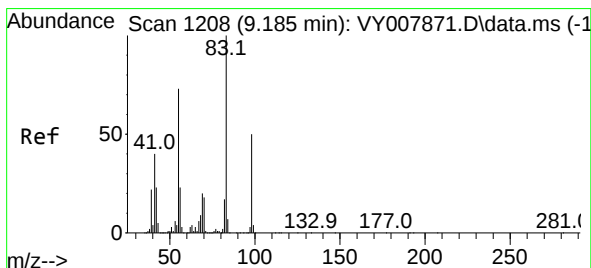
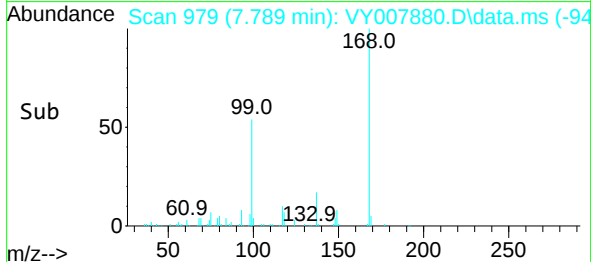
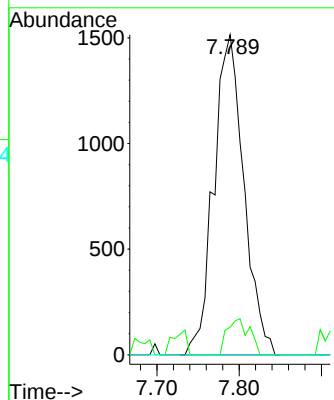
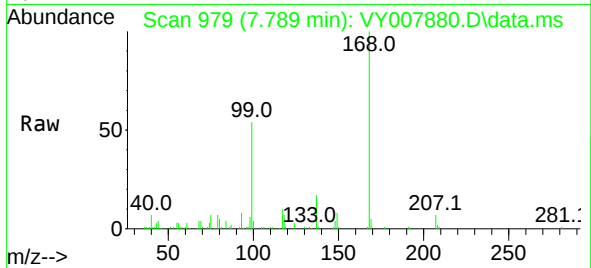




#38
Carbon Tetrachloride
Concen: 6.140 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

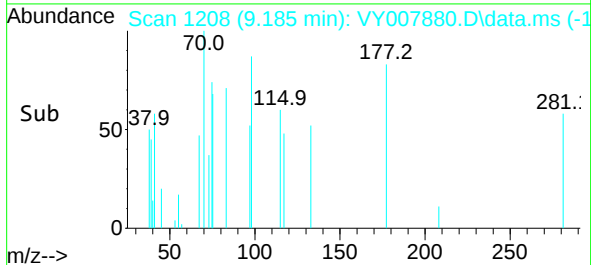
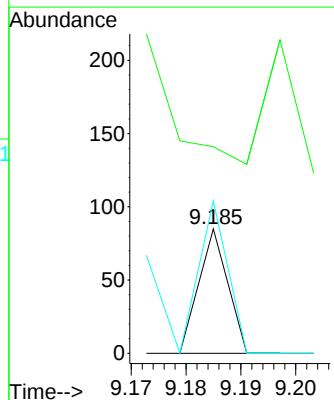
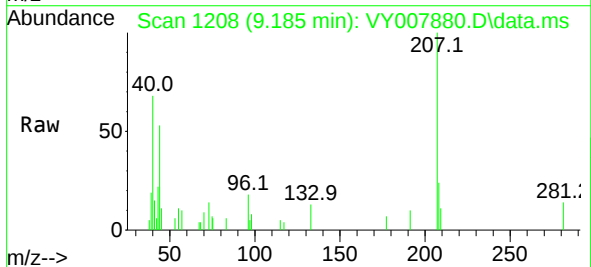
Instrument :
MSVOA_Y
ClientSampleId :
SR-EX2B-BASE-02RE

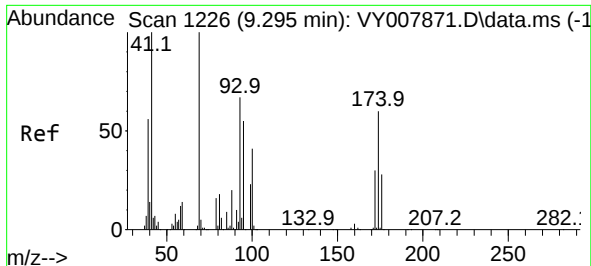
Tgt Ion:117 Resp: 3843
Ion Ratio Lower Upper
117 100
119 8.6 77.9 116.9#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: Below Cal
RT: 9.185 min Scan# 1208
Delta R.T. -0.000 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion: 83 Resp: 31
Ion Ratio Lower Upper
83 100
55 0.0 66.5 99.7#
98 122.4 37.9 56.9#





#49

1,4-Dioxane

Concen: 7.081 ug/l

RT: 9.313 min Scan# 1226

Delta R.T. 0.018 min

Lab File: VY007880.D

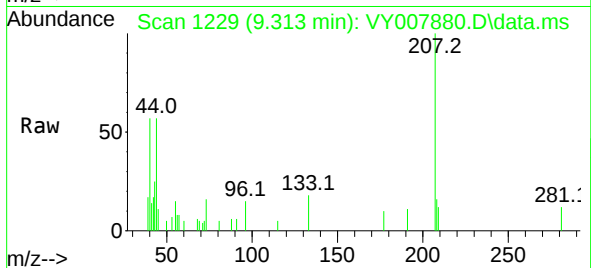
Acq: 17 Mar 2022 17:29

Instrument :

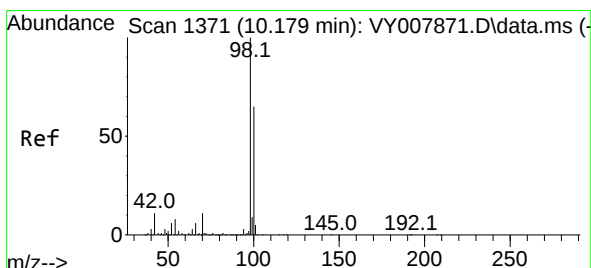
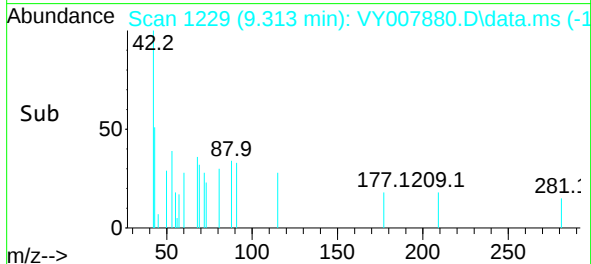
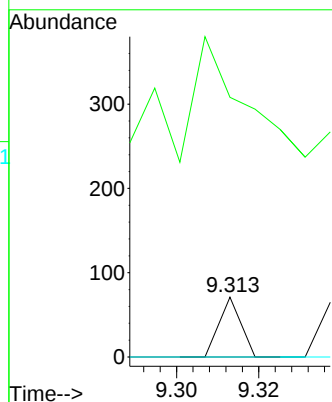
MSVOA_Y

ClientSampleId :

SR-EX2B-BASE-02RE



Tgt Ion:	88	Resp:	26
Ion	Ratio	Lower	Upper
88	100		
43	469.2	32.8	49.2#
58	0.0	59.8	89.6#



#50

Toluene-d8

Concen: 52.568 ug/l

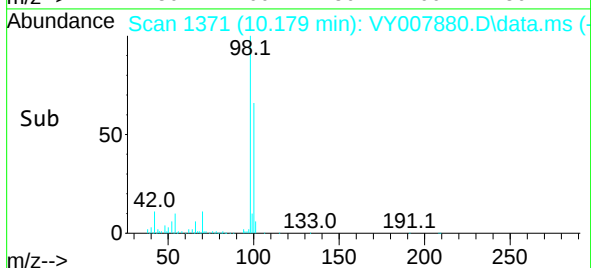
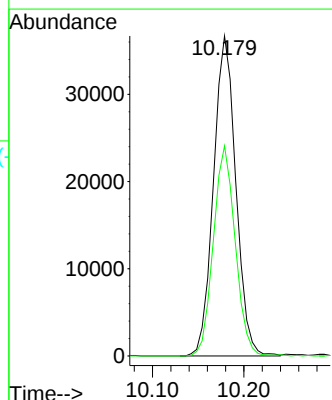
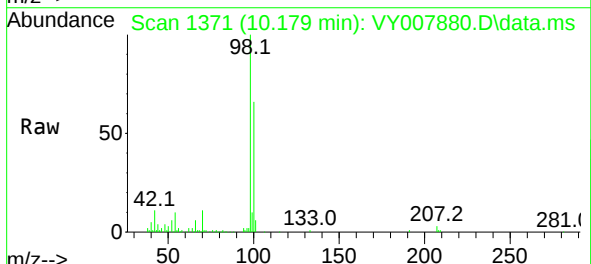
RT: 10.179 min Scan# 1371

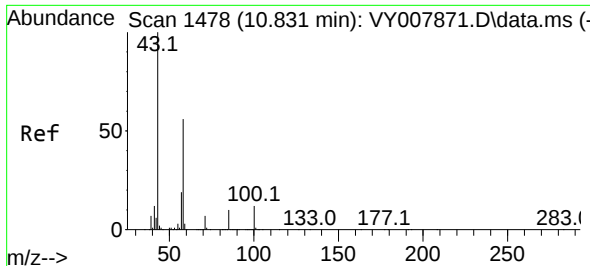
Delta R.T. -0.000 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

Tgt Ion:	98	Resp:	62305
Ion	Ratio	Lower	Upper
98	100		
100	64.1	50.2	75.2

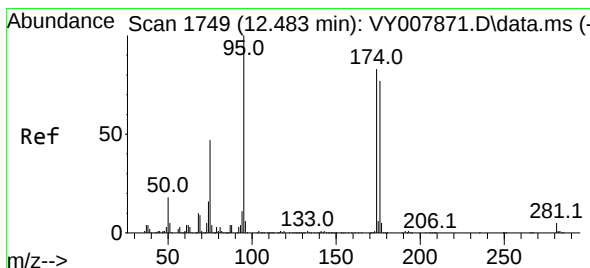
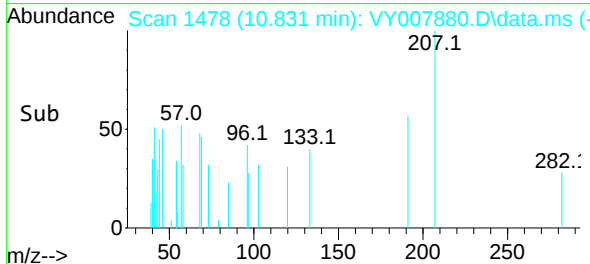
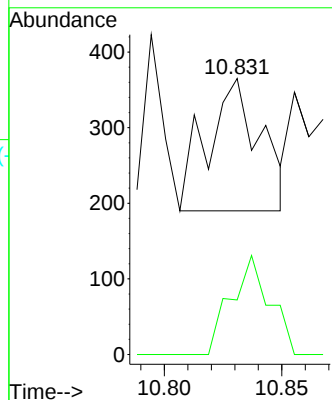
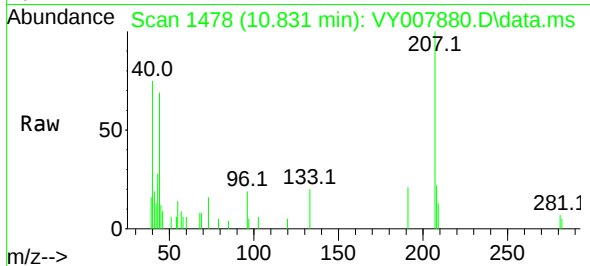




#59
2-Hexanone
Concen: 1.059 ug/l
RT: 10.831 min Scan# 1478
Delta R.T. -0.000 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

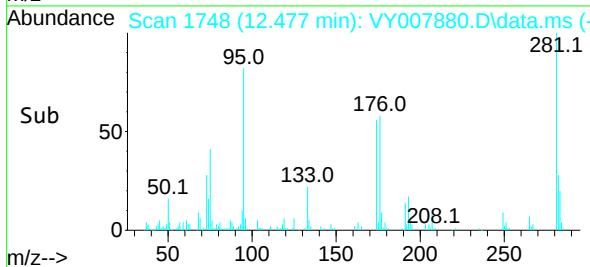
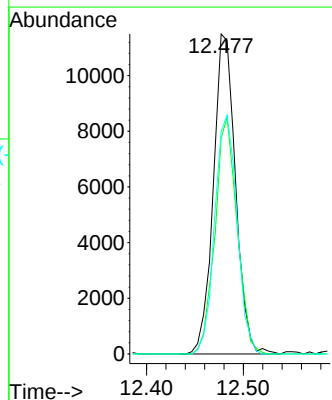
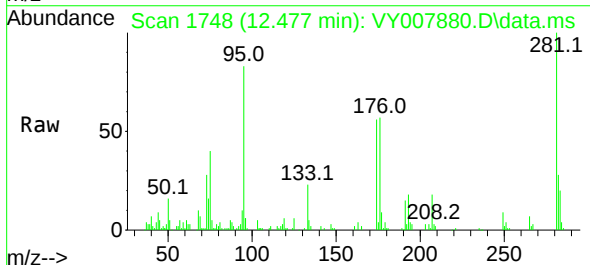
Instrument :
MSVOA_Y
ClientSampleId :
SR-EX2B-BASE-02RE

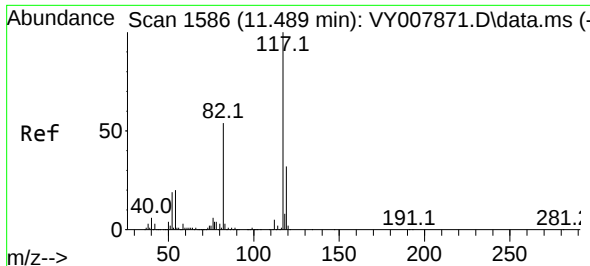
Tgt Ion: 43 Resp: 275
Ion Ratio Lower Upper
43 100
58 54.2 24.4 73.4



#62
4-Bromofluorobenzene
Concen: 32.282 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion: 95 Resp: 18297
Ion Ratio Lower Upper
95 100
174 73.5 0.0 177.0
176 75.1 0.0 175.8

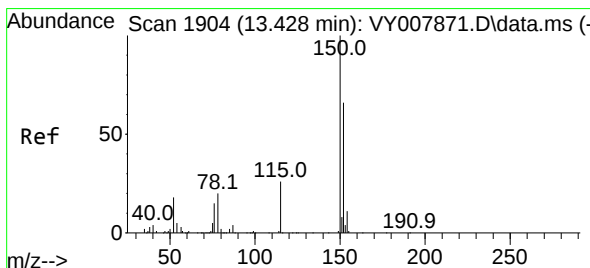
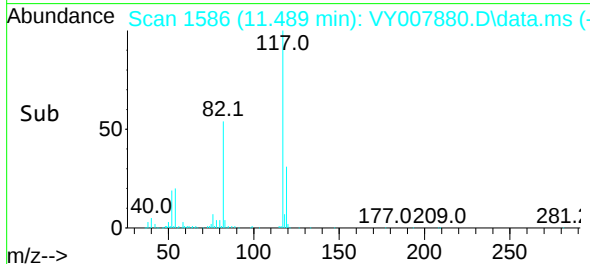
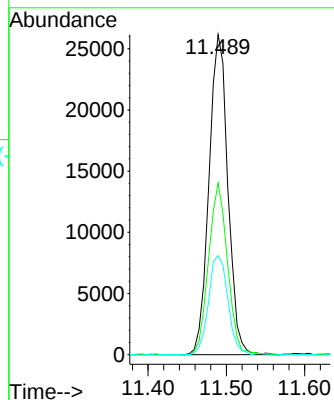
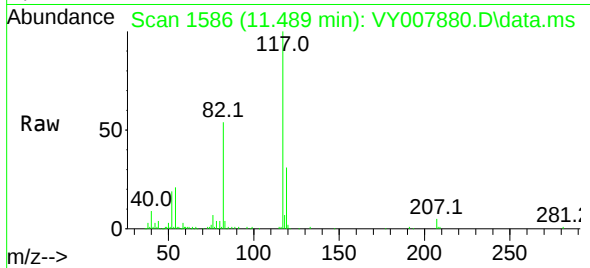




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

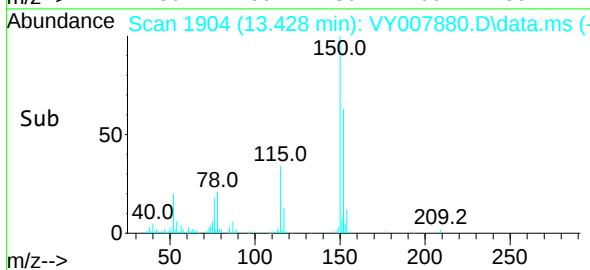
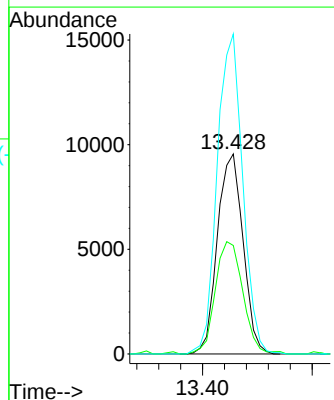
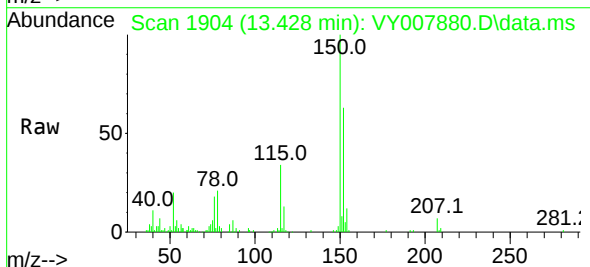
Instrument :
MSVOA_Y
ClientSampleId :
SR-EX2B-BASE-02RE

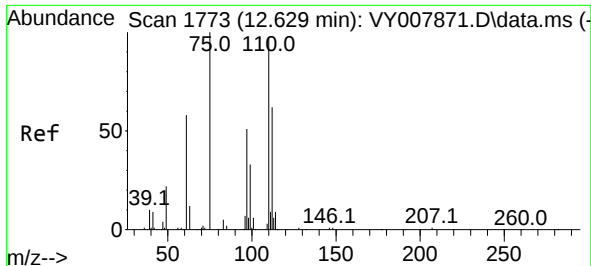
Tgt Ion:117 Resp: 43727
Ion Ratio Lower Upper
117 100
82 53.7 43.0 64.4
119 31.0 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion:152 Resp: 15545
Ion Ratio Lower Upper
152 100
115 60.3 28.2 84.7
150 158.9 0.0 347.6

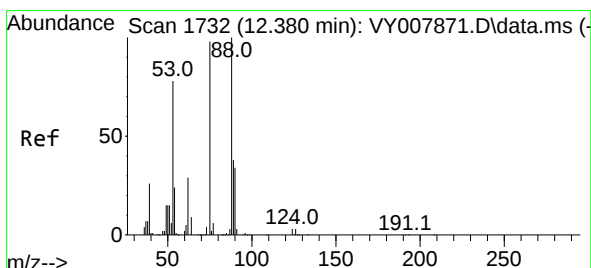
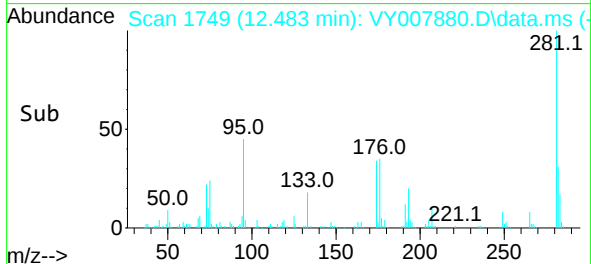
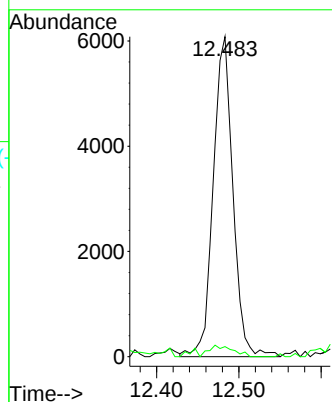
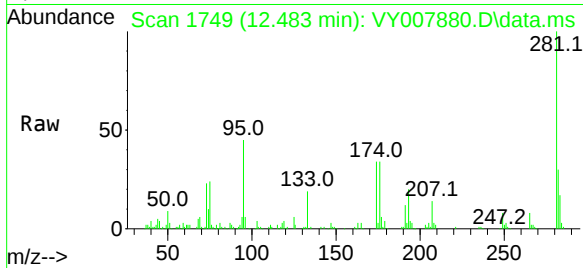




#76
1,2,3-Trichloropropane
Concen: 45.670 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.153 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

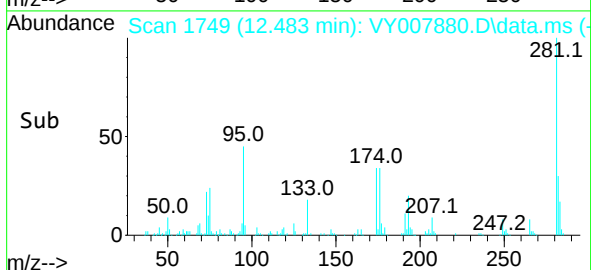
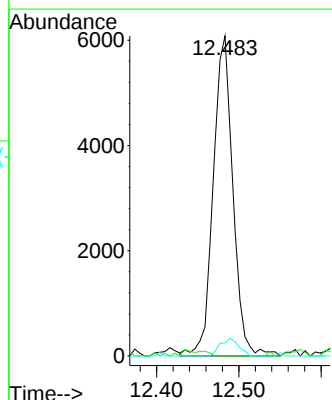
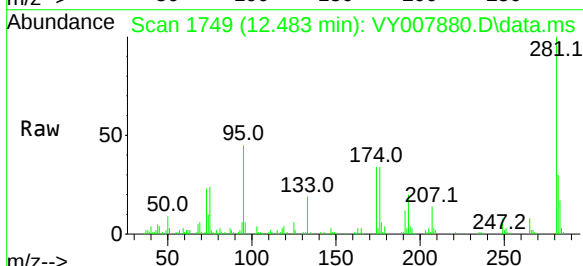
Instrument :
MSVOA_Y
ClientSampleId :
SR-EX2B-BASE-02RE

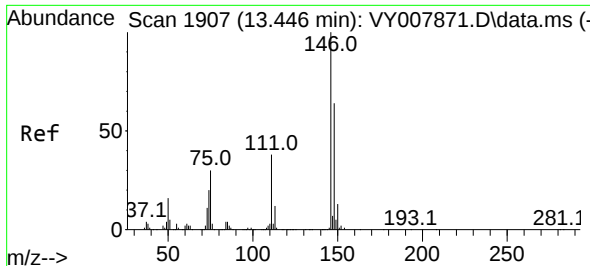
Tgt Ion: 75 Resp: 10119
Ion Ratio Lower Upper
75 100
77 4.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 95.925 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion: 75 Resp: 10119
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 5.1 37.0 55.4#

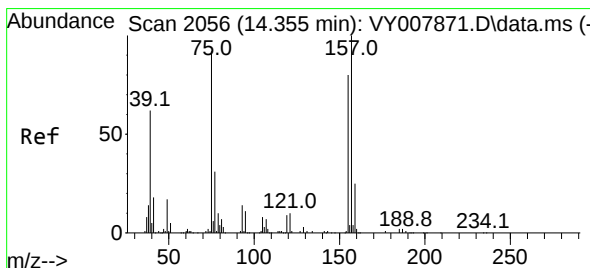
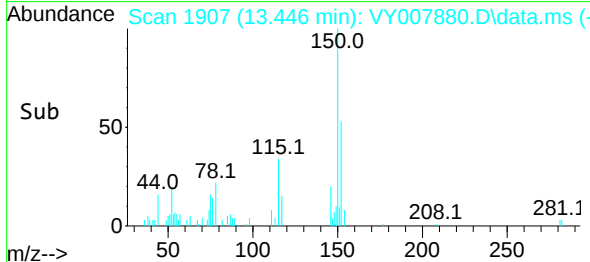
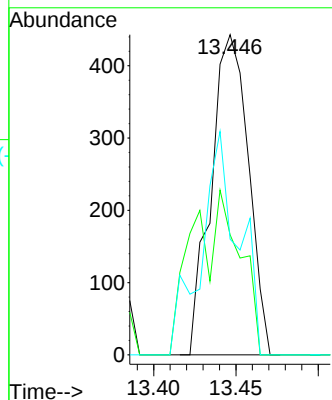
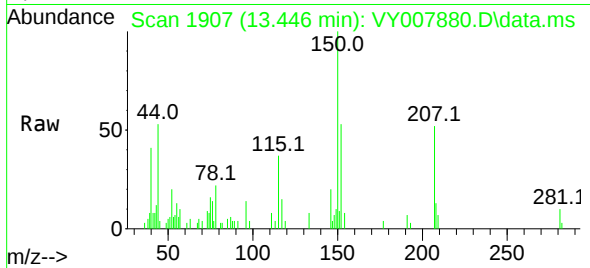




#88
 1,4-Dichlorobenzene
 Concen: 1.142 ug/l
 RT: 13.446 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY007880.D
 Acq: 17 Mar 2022 17:29

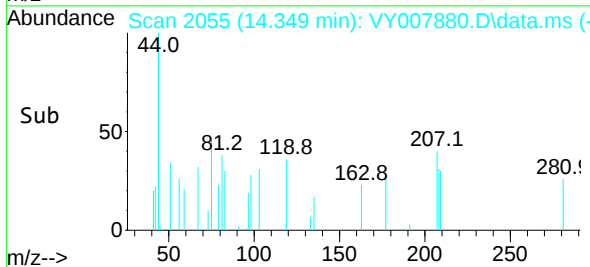
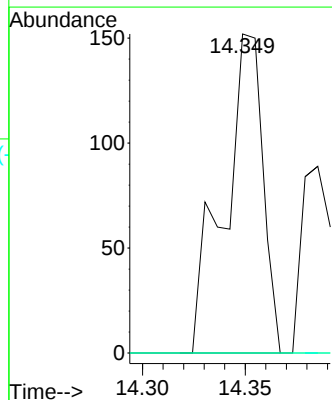
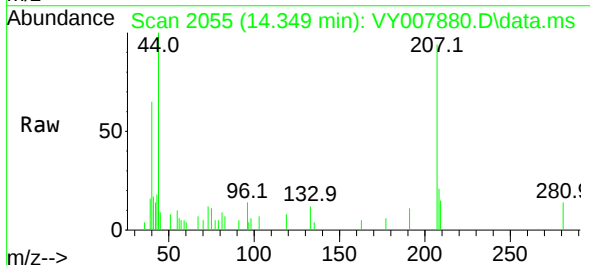
Instrument :
 MSVOA_Y
 ClientSampleId :
 SR-EX2B-BASE-02RE

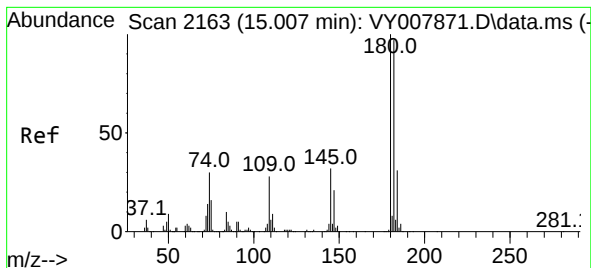
Tgt Ion:	146	Resp:	699
Ion	Ratio	Lower	Upper
146	100		
111	30.6	19.3	57.8
148	69.2	32.6	97.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.947 ug/l
 RT: 14.349 min Scan# 2055
 Delta R.T. -0.006 min
 Lab File: VY007880.D
 Acq: 17 Mar 2022 17:29

Tgt Ion:	75	Resp:	200
Ion	Ratio	Lower	Upper
75	100		
155	0.0	38.0	113.9#
157	0.0	47.8	143.3#





#93

1,2,4-Trichlorobenzene

Concen: 1.377 ug/l

RT: 15.001 min Scan# 2162

Delta R.T. -0.006 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

Instrument :

MSVOA_Y

ClientSampleId :

SR-EX2B-BASE-02RE

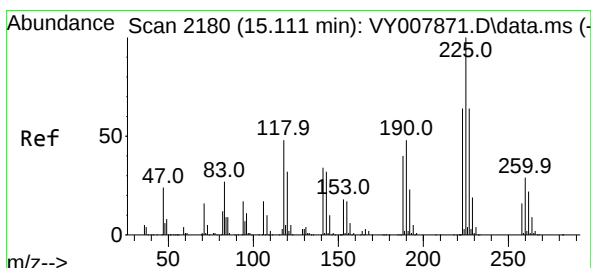
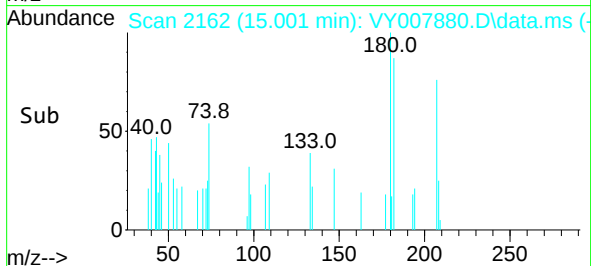
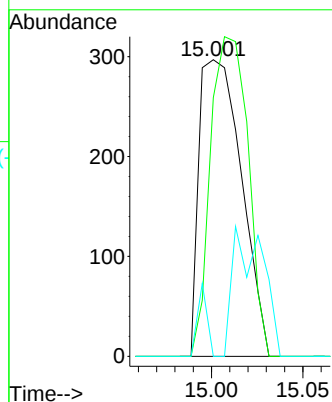
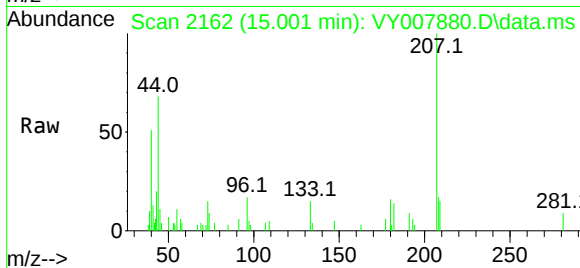
Tgt Ion:180 Resp: 478

Ion Ratio Lower Upper

180 100

182 0.0 47.3 141.9#

145 5.6 14.6 43.8#



#94

Hexachlorobutadiene

Concen: 1.063 ug/l

RT: 15.117 min Scan# 2181

Delta R.T. -0.000 min

Lab File: VY007880.D

Acq: 17 Mar 2022 17:29

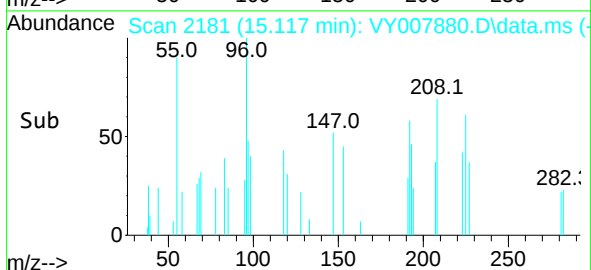
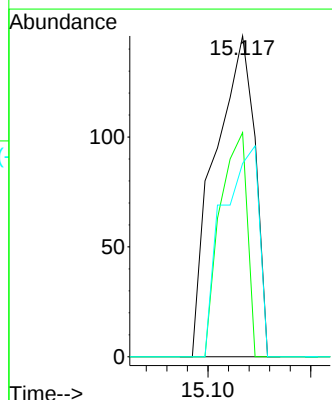
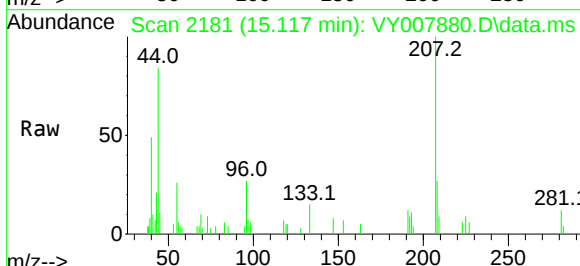
Tgt Ion:225 Resp: 197

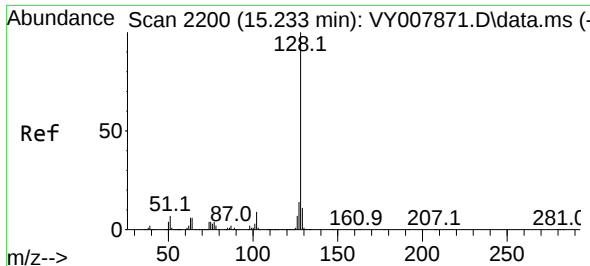
Ion Ratio Lower Upper

225 100

223 47.2 30.8 92.3

227 59.9 31.6 94.7

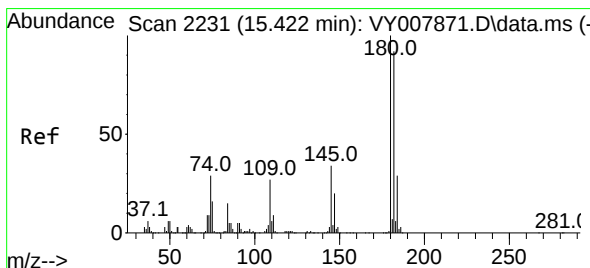
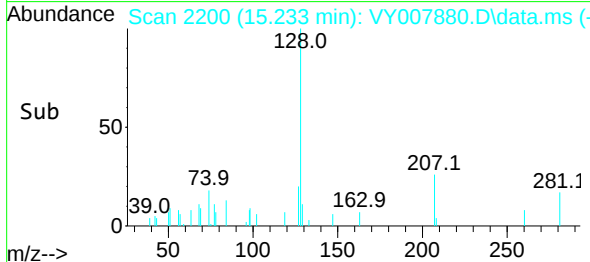
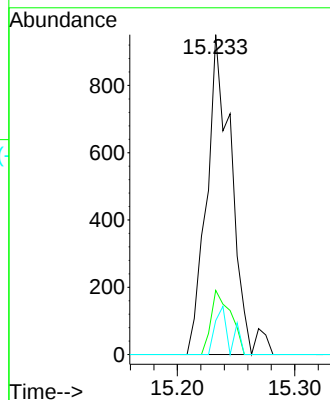
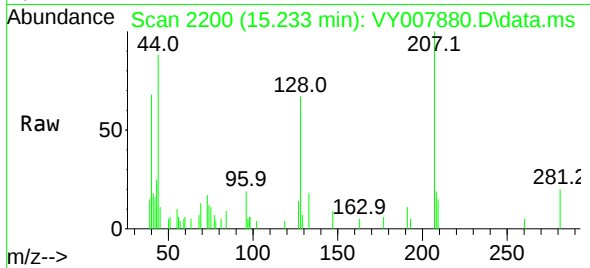




#95
Naphthalene
Concen: 1.811 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. -0.006 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Instrument :
MSVOA_Y
ClientSampleId :
SR-EX2B-BASE-02RE

Tgt Ion:	128	Resp:	1403
Ion	Ratio	Lower	Upper
128	100		
127	16.0	11.0	16.4
129	8.8	8.4	12.6



#96
1,2,3-Trichlorobenzene
Concen: 1.802 ug/l
RT: 15.422 min Scan# 2231
Delta R.T. -0.006 min
Lab File: VY007880.D
Acq: 17 Mar 2022 17:29

Tgt Ion:	180	Resp:	552
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.3	141.9
145	37.3	15.3	45.9

