

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070522\
 Data File : VX029928.D
 Acq On : 05 Jul 2022 18:13
 Operator : JC/MD
 Sample : PB145991ZHE#14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB145991ZHE#14

Quant Time: Jul 06 06:58:33 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X062822W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 05:54:51 2022
 Response via : Initial Calibration

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

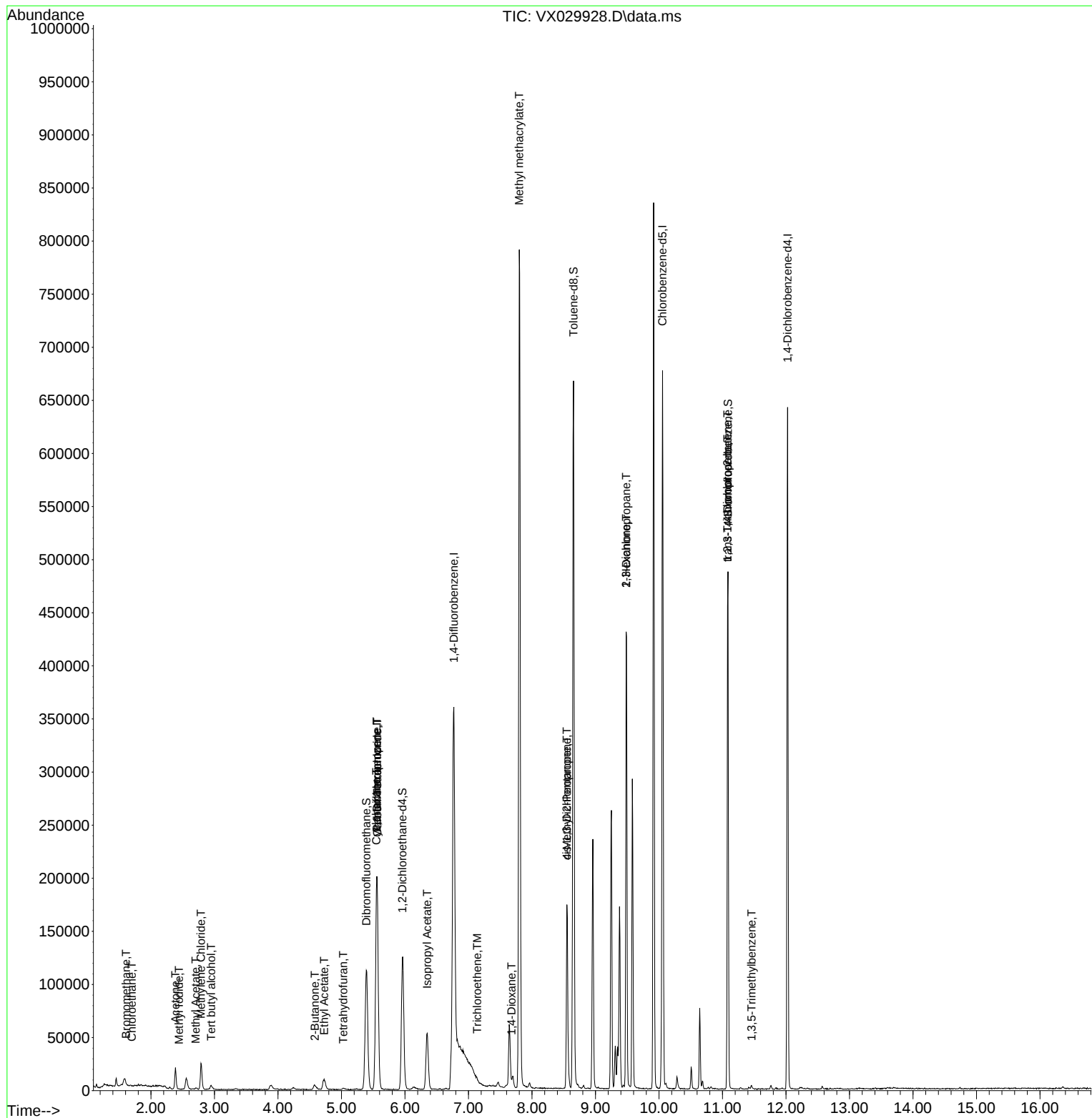
Internal Standards						
1) Pentafluorobenzene	5.556	168	204692	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	357063	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	309249	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	131534	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	111847	43.167	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.340%		
35) Dibromofluoromethane	5.391	113	102615	45.986	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.980%		
50) Toluene-d8	8.653	98	403154	48.159	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.320%		
62) 4-Bromofluorobenzene	11.085	95	133428	45.091	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.180%		
Target Compounds					Qvalue	
5) Bromomethane	1.605	94	491	0.390	ug/l #	52
6) Chloroethane	1.697	64	254	1.184	ug/l #	41
10) Methyl Iodide	2.441	142	20	1.880	ug/l #	45
11) Tert butyl alcohol	2.947	59	2829	4.175	ug/l #	78
13) Acrolein	2.239	56	39	Below Cal	#	1
16) Acetone	2.386	43	19827	15.641	ug/l	99
18) Methyl Acetate	2.703	43	2612	0.668	ug/l #	70
20) Methylene Chloride	2.788	84	10730	4.008	ug/l	95
25) 2-Butanone	4.581	43	5859	2.663	ug/l	91
29) Tetrahydrofuran	5.026	42	832	0.575	ug/l #	77
31) Cyclohexane	5.550	56	3995	1.106	ug/l #	16
36) 1,1-Dichloropropene	5.556	75	15316	5.161	ug/l #	47
37) Ethyl Acetate	4.727	43	18578	4.577	ug/l	99
38) Carbon Tetrachloride	5.562	117	19455	7.565	ug/l #	19
43) Isopropyl Acetate	6.348	43	73943	12.097	ug/l	100
44) Trichloroethene	7.135	130	1338	0.518	ug/l	83
48) Methyl methacrylate	7.799	41	64363	22.209	ug/l #	41
49) 1,4-Dioxane	7.678	88	109	1.588	ug/l #	25
51) 4-Methyl-2-Pentanone	8.549	43	59861	14.852	ug/l #	52
54) cis-1,3-Dichloropropene	8.549	75	28612	7.993	ug/l #	59
57) 1,3-Dichloropropane	9.482	76	3647	0.899	ug/l #	45
59) 2-Hexanone	9.482	43	49930	15.963	ug/l #	52
76) 1,2,3-Trichloropropane	11.079	75	62069	19.712	ug/l #	38
80) 1,3,5-Trimethylbenzene	11.457	105	1719	0.218	ug/l	96
81) trans-1,4-Dichloro-2-b...	11.079	75	62069	62.602	ug/l #	13

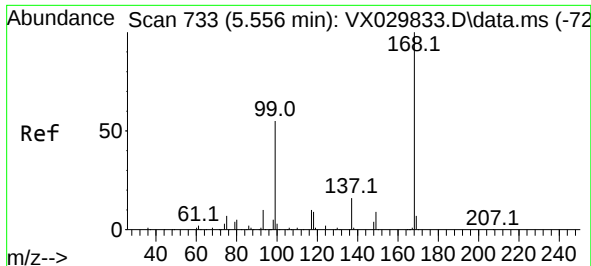
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 06 06:58:33 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X062822W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 29 05:54:51 2022
Response via : Initial Calibration

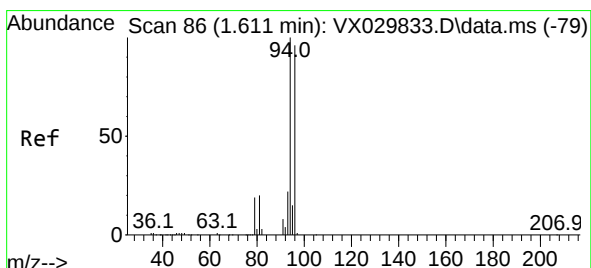
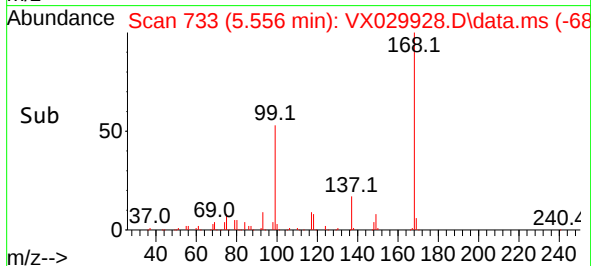
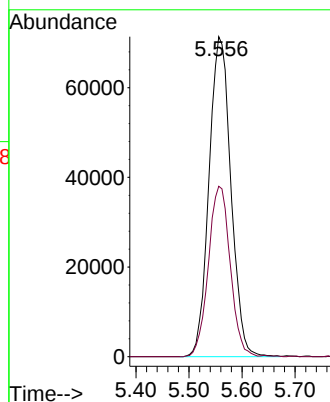
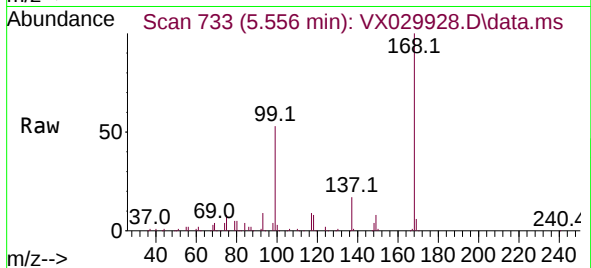




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

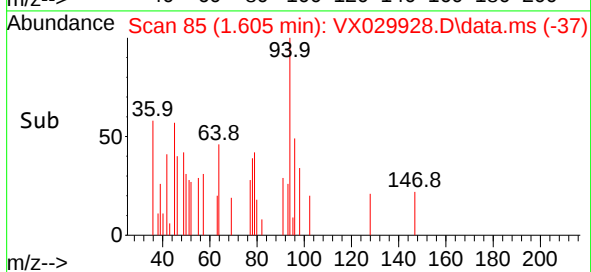
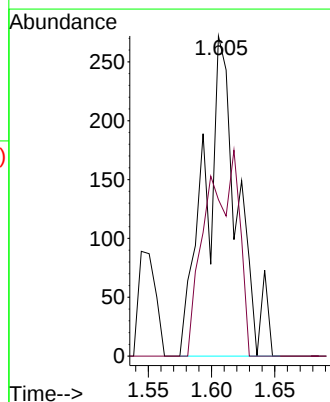
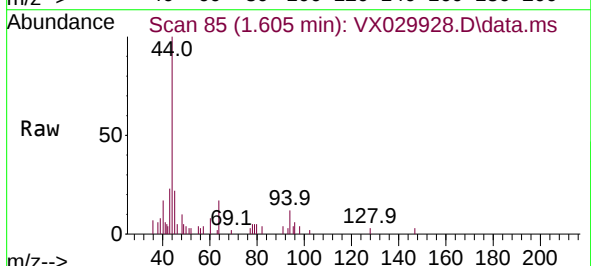
Instrument :
MSVOA_X
ClientSampleId :
PB145991ZHE#14

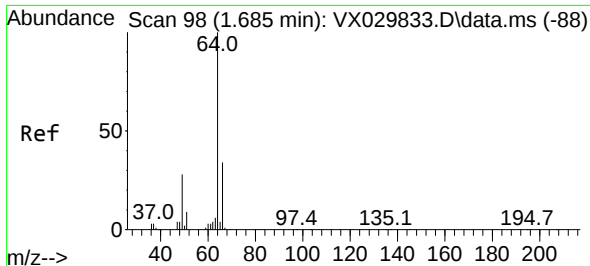
Tgt Ion:168 Resp: 204692
Ion Ratio Lower Upper
168 100
99 53.2 44.0 66.0



#5
Bromomethane
Concen: 0.390 ug/l
RT: 1.605 min Scan# 85
Delta R.T. -0.006 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Tgt Ion: 94 Resp: 491
Ion Ratio Lower Upper
94 100
96 48.9 76.9 115.3#

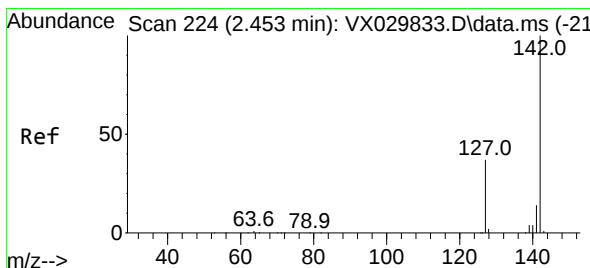
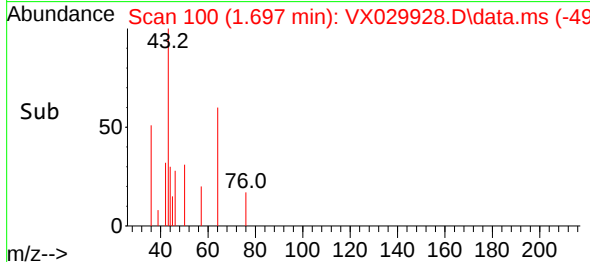
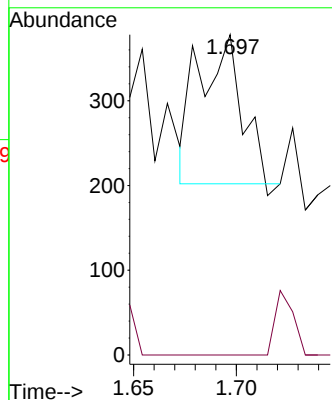
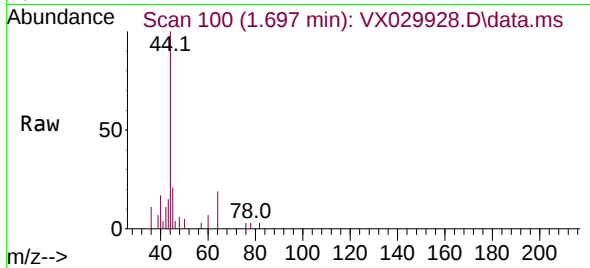




#6
Chloroethane
Concen: 1.184 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.012 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

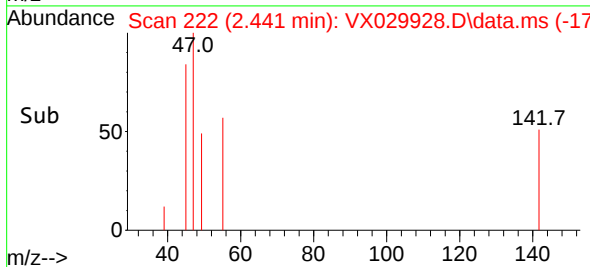
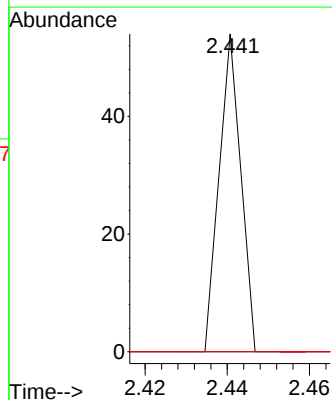
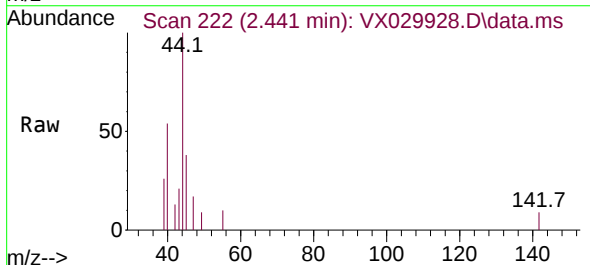
Instrument :
MSVOA_X
ClientSampleId :
PB145991ZHE#14

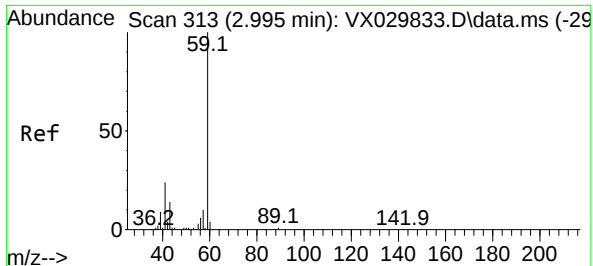
Tgt Ion: 64 Resp: 254
Ion Ratio Lower Upper
64 100
66 0.0 27.2 40.8#



#10
Methyl Iodide
Concen: 1.880 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.012 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Tgt Ion: 142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 30.2 45.2#
141 0.0 11.3 16.9#





#11

Tert butyl alcohol

Concen: 4.175 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.049 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

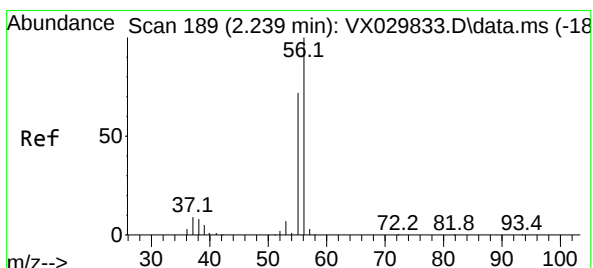
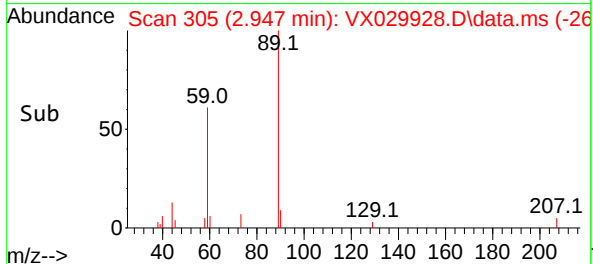
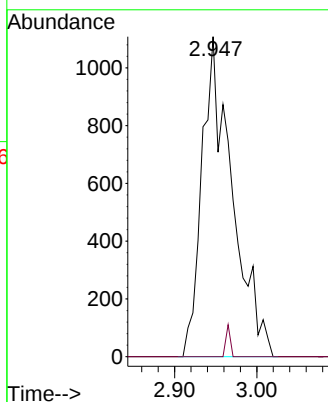
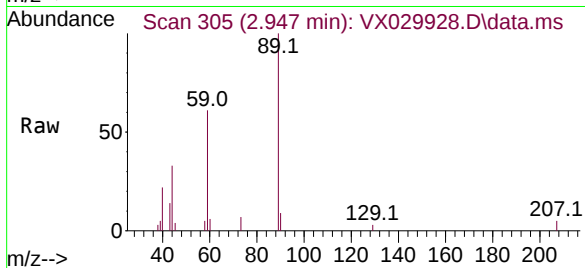
PB145991ZHE#14

Tgt Ion: 59 Resp: 2829

Ion Ratio Lower Upper

59 100

57 1.4 7.4 11.2#



#13

Acrolein

Concen: Below Cal

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX029928.D

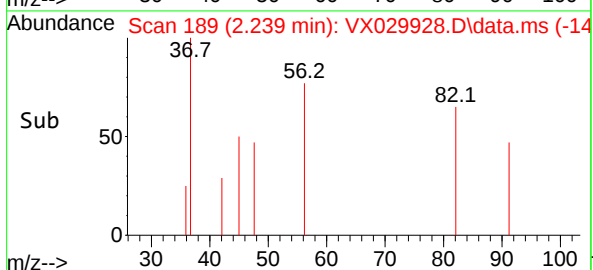
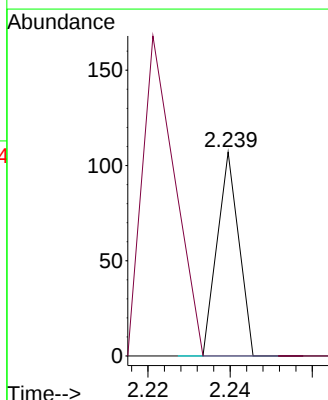
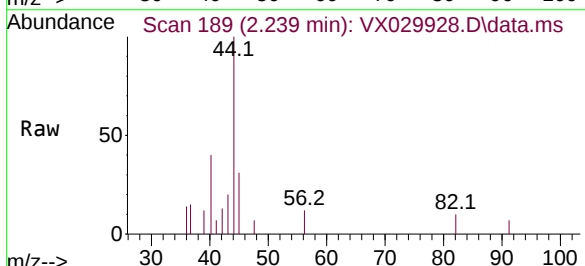
Acq: 05 Jul 2022 18:13

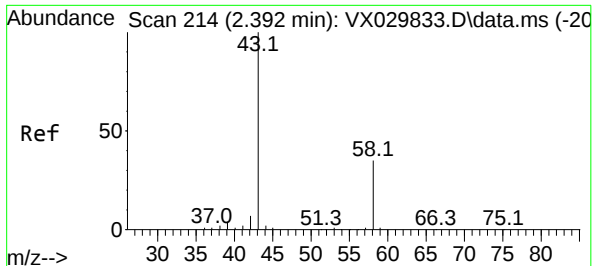
Tgt Ion: 56 Resp: 39

Ion Ratio Lower Upper

56 100

55 235.9 56.6 84.8#

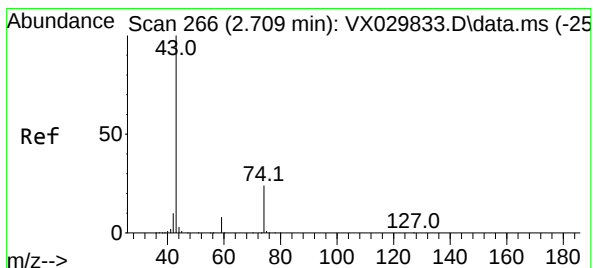
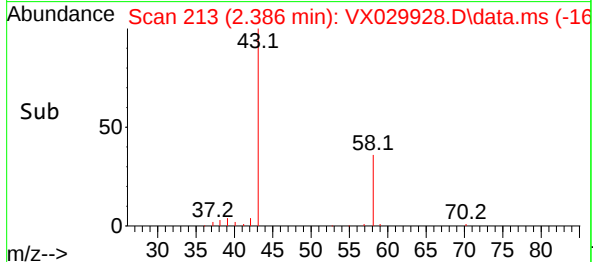
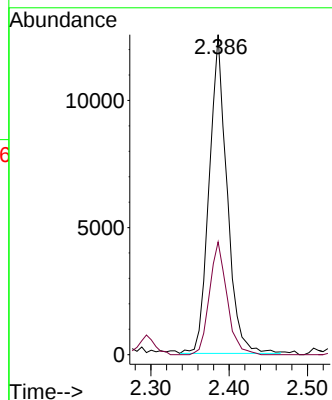
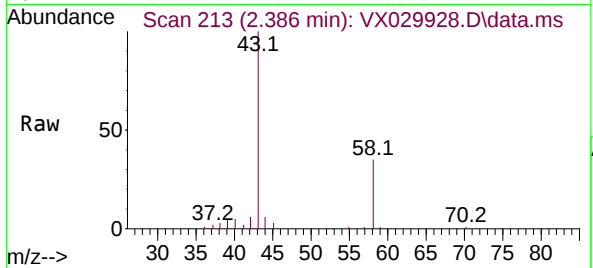




#16
Acetone
Concen: 15.641 ug/l
RT: 2.386 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

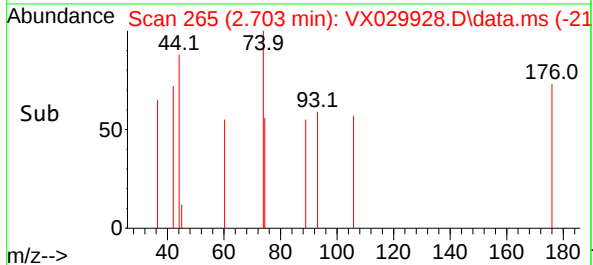
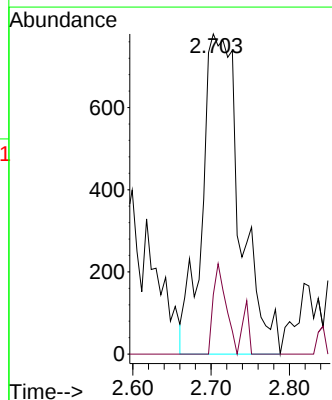
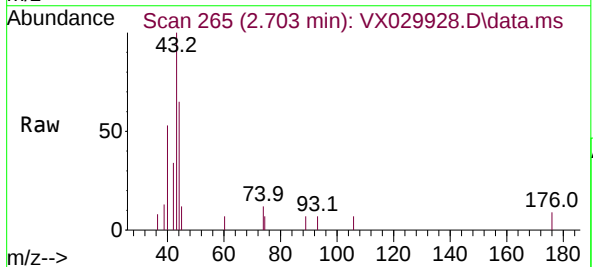
Instrument :
MSVOA_X
ClientSampleId :
PB145991ZHE#14

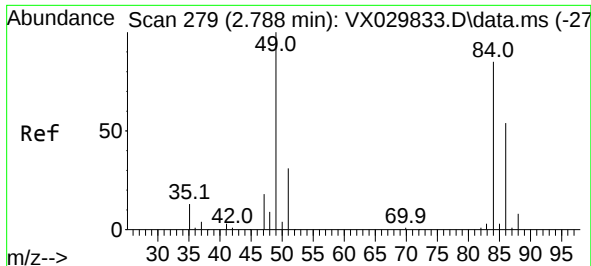
Tgt Ion: 43 Resp: 19827
Ion Ratio Lower Upper
43 100
58 35.4 27.7 41.5



#18
Methyl Acetate
Concen: 0.668 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.006 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Tgt Ion: 43 Resp: 2612
Ion Ratio Lower Upper
43 100
74 9.5 19.4 29.2#



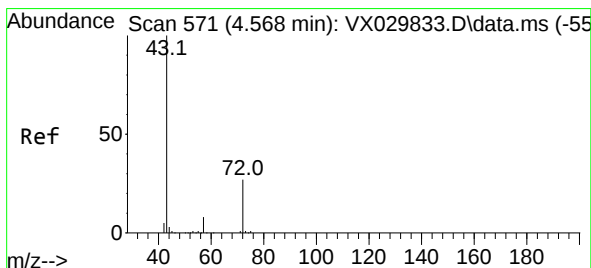
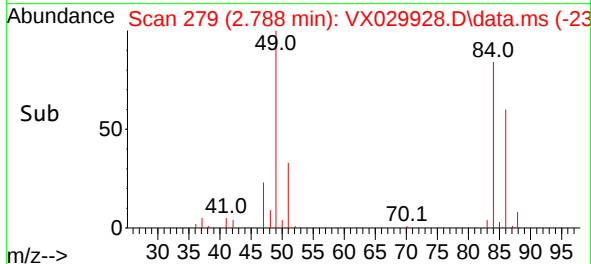
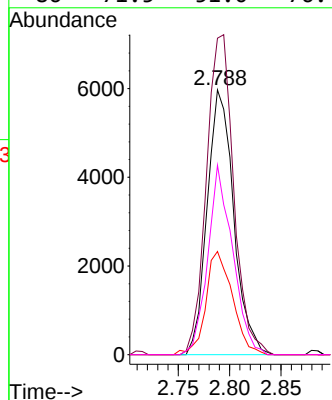
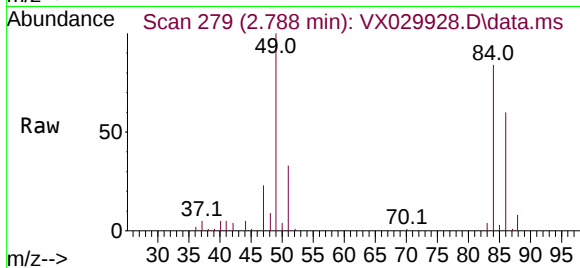


#20
Methylene Chloride
Concen: 4.008 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Instrument :
MSVOA_X
ClientSampleId :
PB145991ZHE#14

Tgt Ion: 84 Resp: 10730

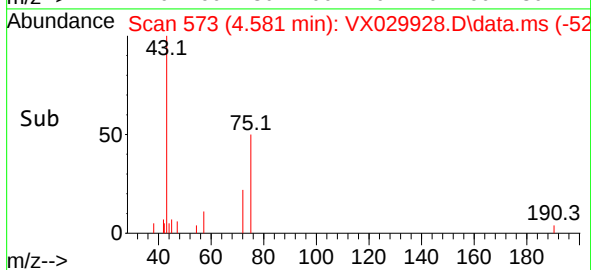
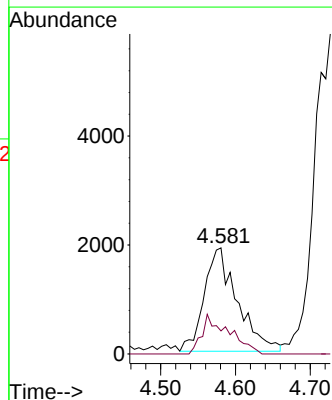
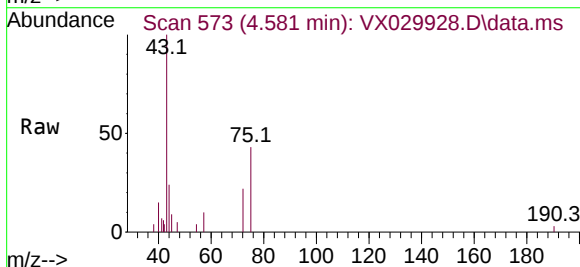
Ion	Ratio	Lower	Upper
84	100		
49	119.5	93.8	140.6
51	39.0	29.4	44.0
86	71.5	51.0	76.4

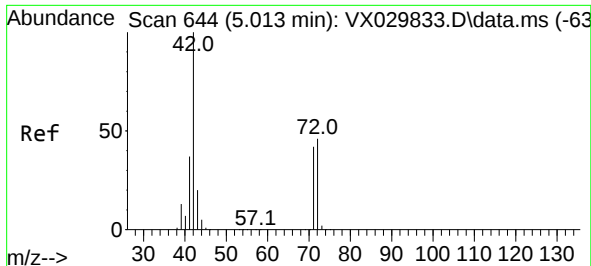


#25
2-Butanone
Concen: 2.663 ug/l
RT: 4.581 min Scan# 573
Delta R.T. 0.012 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Tgt Ion: 43 Resp: 5859

Ion	Ratio	Lower	Upper
43	100		
72	22.3	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.575 ug/l

RT: 5.026 min Scan# 644

Delta R.T. 0.012 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB145991ZHE#14

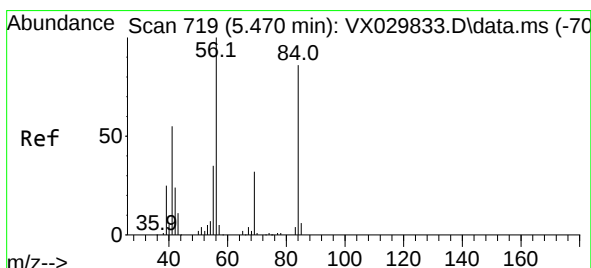
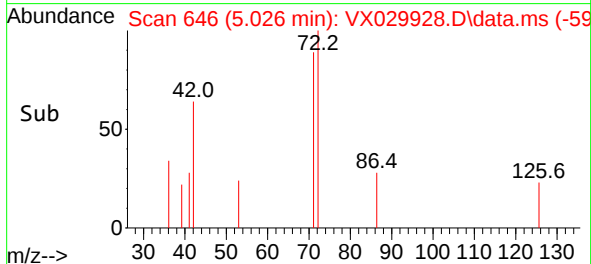
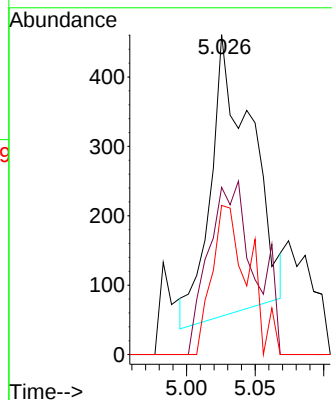
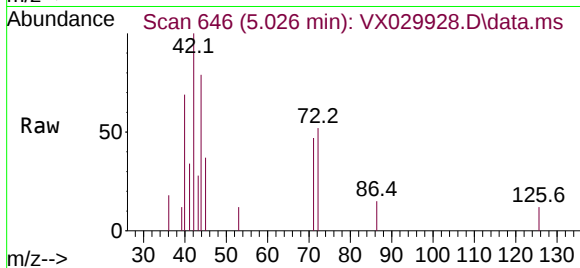
Tgt Ion: 42 Resp: 832

Ion Ratio Lower Upper

42 100

72 69.6 36.5 54.7#

71 47.7 33.9 50.9



#31

Cyclohexane

Concen: 1.106 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

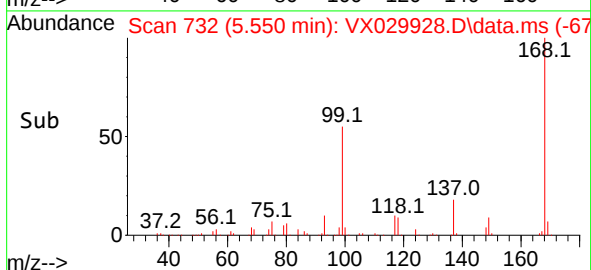
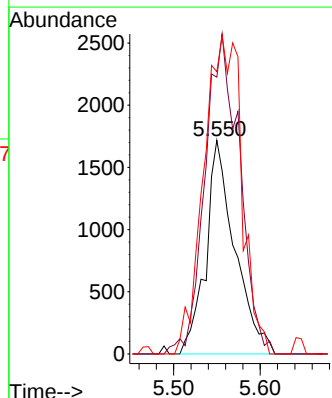
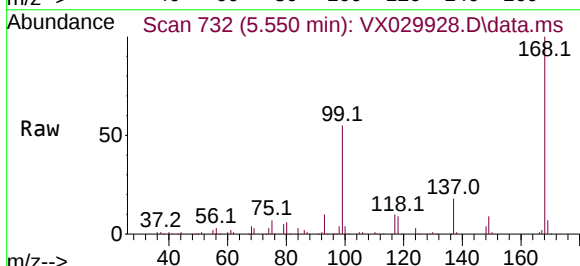
Tgt Ion: 56 Resp: 3995

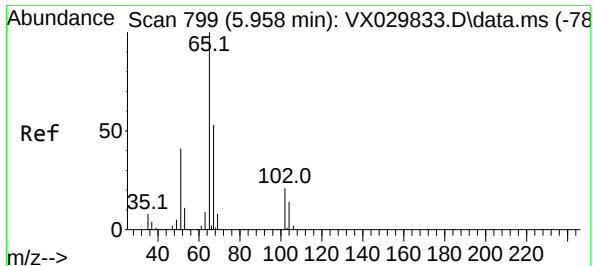
Ion Ratio Lower Upper

56 100

69 129.6 25.4 38.0#

84 132.2 68.9 103.3#





#33

1,2-Dichloroethane-d4

Concen: 43.167 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

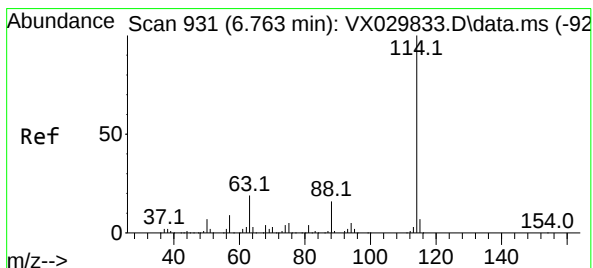
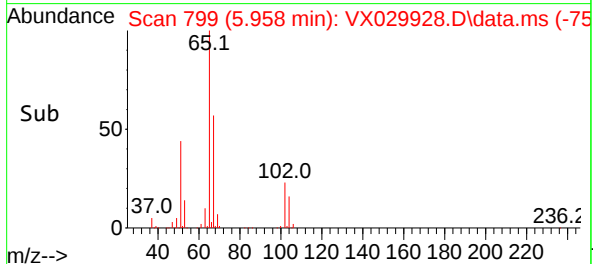
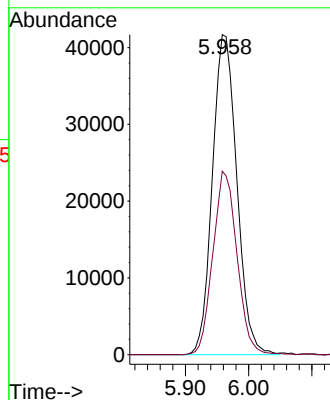
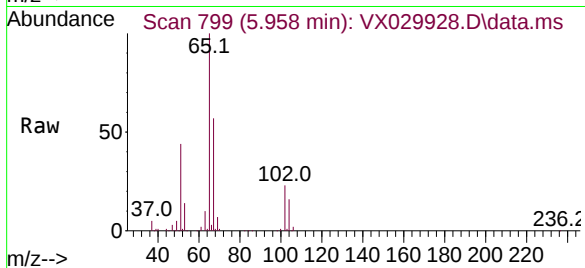
PB145991ZHE#14

Tgt Ion: 65 Resp: 111847

Ion Ratio Lower Upper

65 100

67 56.6 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.006 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

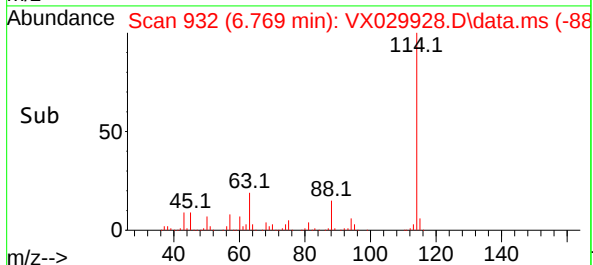
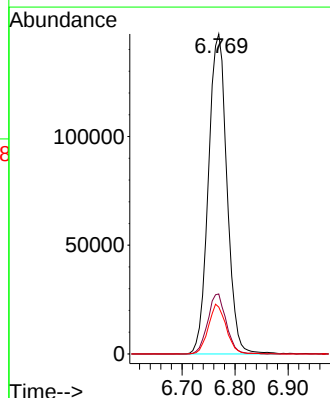
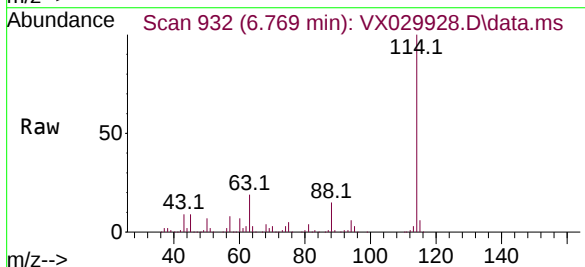
Tgt Ion: 114 Resp: 357063

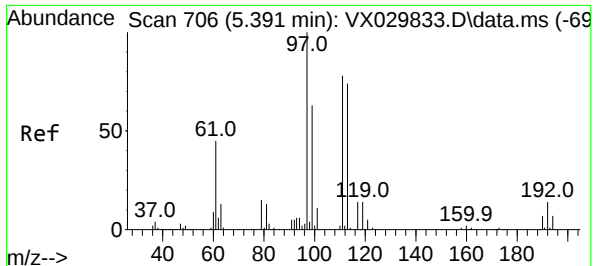
Ion Ratio Lower Upper

114 100

63 18.7 0.0 38.4

88 14.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 45.986 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.000 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB145991ZHE#14

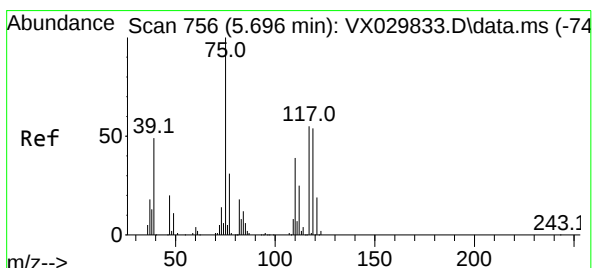
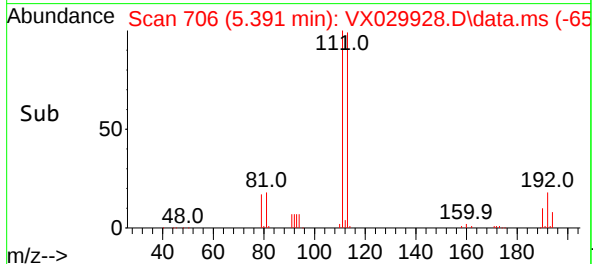
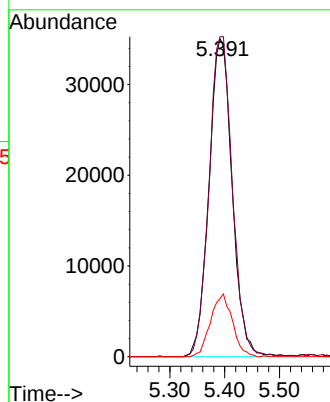
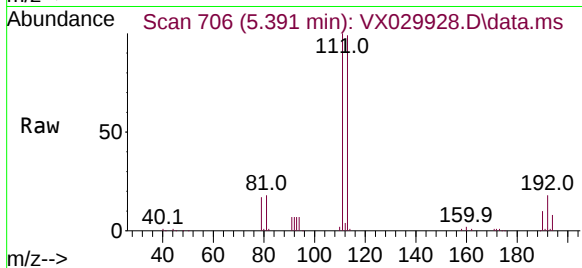
Tgt Ion:113 Resp: 102615

Ion Ratio Lower Upper

113 100

111 101.4 83.2 124.8

192 18.6 14.8 22.2



#36

1,1-Dichloropropene

Concen: 5.161 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

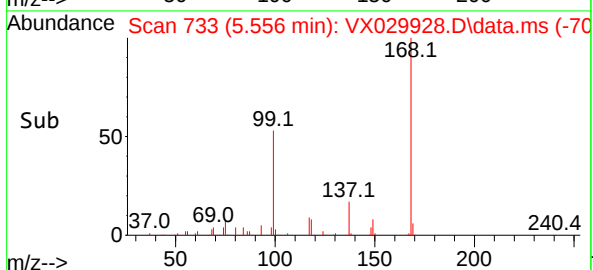
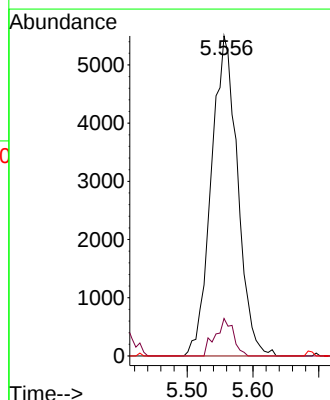
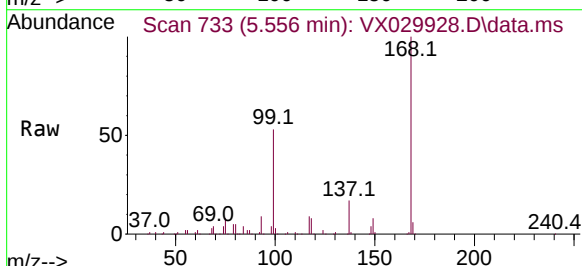
Tgt Ion: 75 Resp: 15316

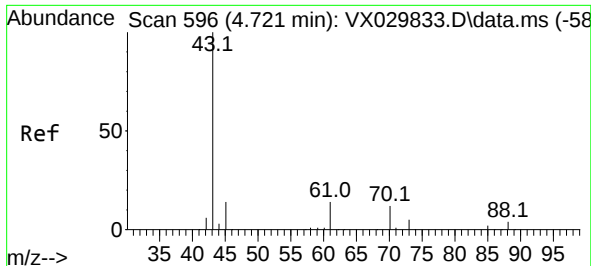
Ion Ratio Lower Upper

75 100

110 8.1 19.3 57.9#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 4.577 ug/l

RT: 4.727 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB145991ZHE#14

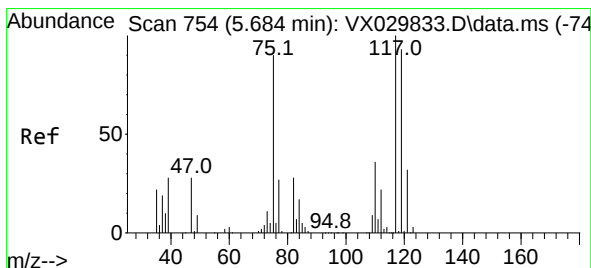
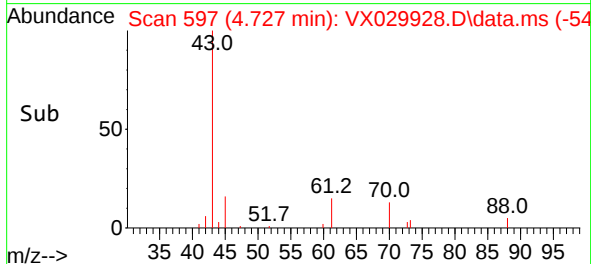
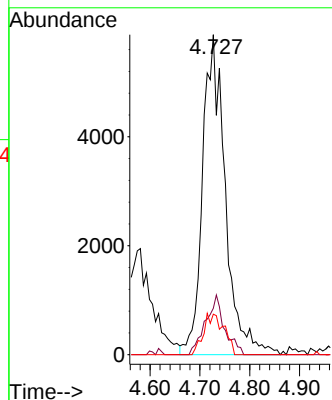
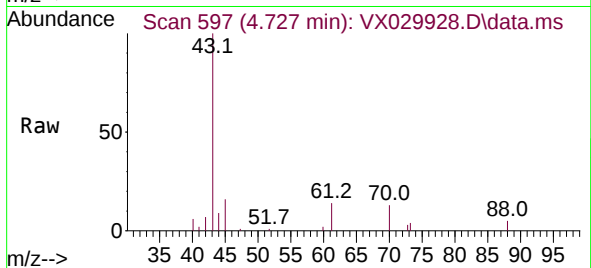
Tgt Ion: 43 Resp: 18578

Ion Ratio Lower Upper

43 100

61 15.5 11.7 17.5

70 11.6 9.3 13.9



#38

Carbon Tetrachloride

Concen: 7.565 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.122 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

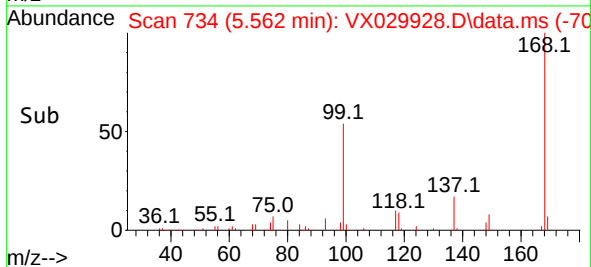
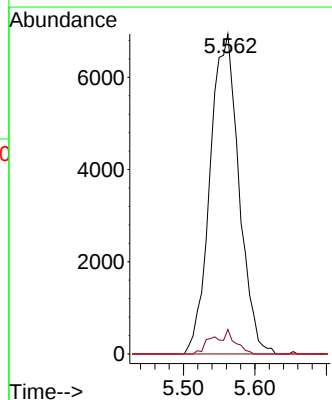
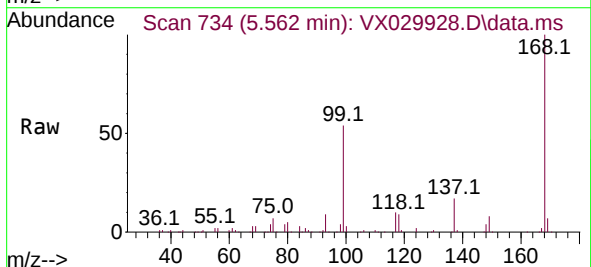
Tgt Ion: 117 Resp: 19455

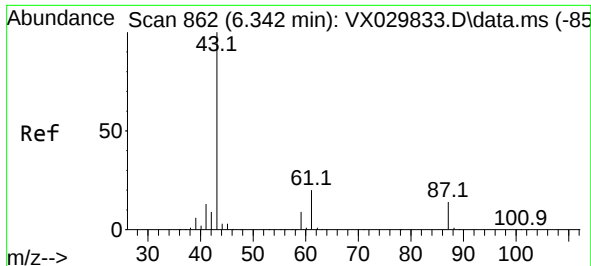
Ion Ratio Lower Upper

117 100

119 7.7 74.1 111.1#

121 0.0 25.8 38.8#

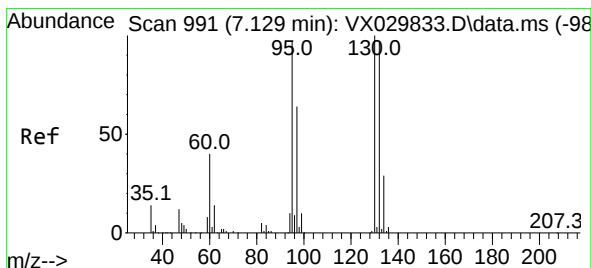
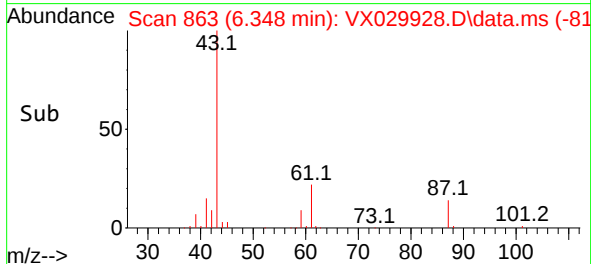
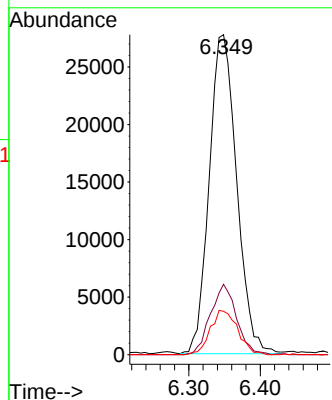
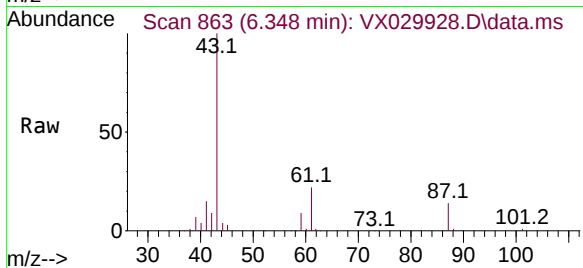




#43
Isopropyl Acetate
Concen: 12.097 ug/l
RT: 6.348 min Scan# 80
Delta R.T. 0.006 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

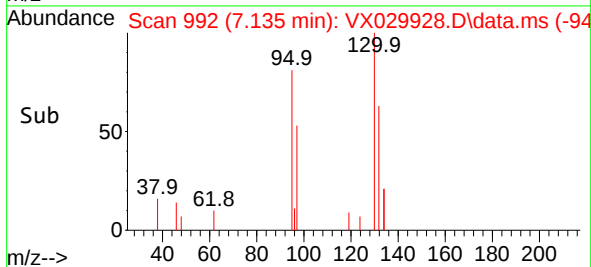
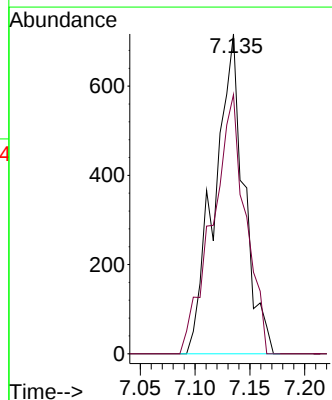
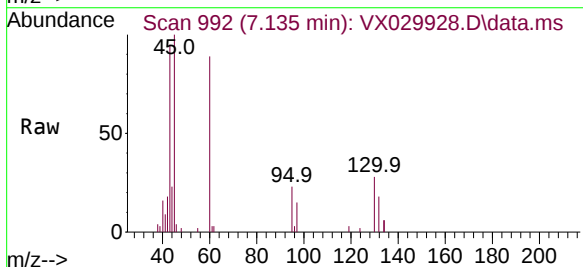
Instrument :
MSVOA_X
ClientSampleId :
PB145991ZHE#14

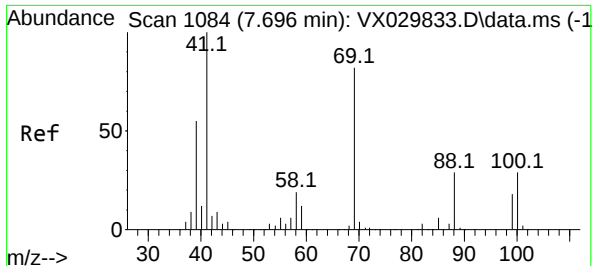
Tgt Ion: 43 Resp: 73943
Ion Ratio Lower Upper
43 100
61 20.9 16.5 24.7
87 13.9 11.1 16.7



#44
Trichloroethene
Concen: 0.518 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.006 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Tgt Ion: 130 Resp: 1338
Ion Ratio Lower Upper
130 100
95 81.0 0.0 194.8





#48

Methyl methacrylate

Concen: 22.209 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB145991ZHE#14

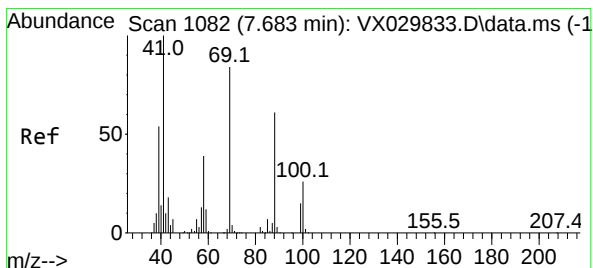
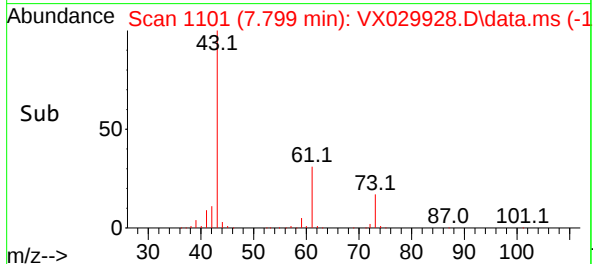
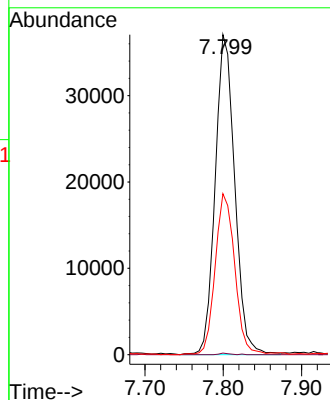
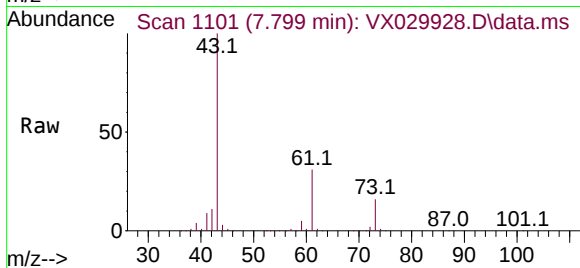
Tgt Ion: 41 Resp: 64363

Ion Ratio Lower Upper

41 100

69 0.2 68.8 103.2#

39 50.5 44.6 66.8



#49

1,4-Dioxane

Concen: 1.588 ug/l

RT: 7.678 min Scan# 1081

Delta R.T. -0.006 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

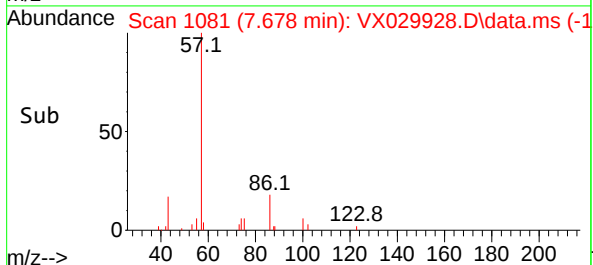
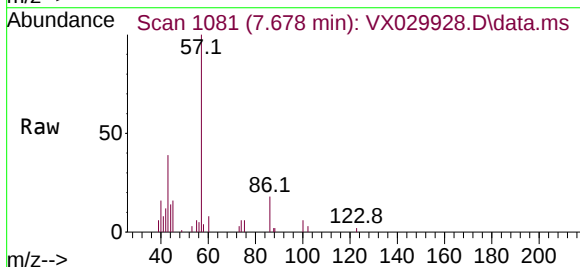
Tgt Ion: 88 Resp: 109

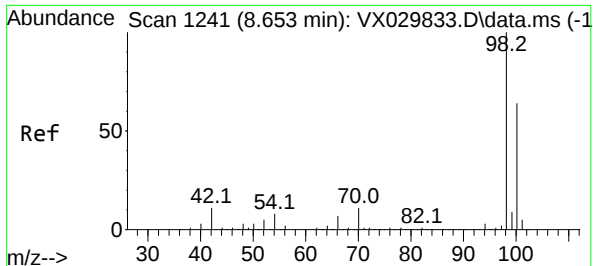
Ion Ratio Lower Upper

88 100

43 0.0 23.8 35.8#

58 0.0 53.8 80.6#

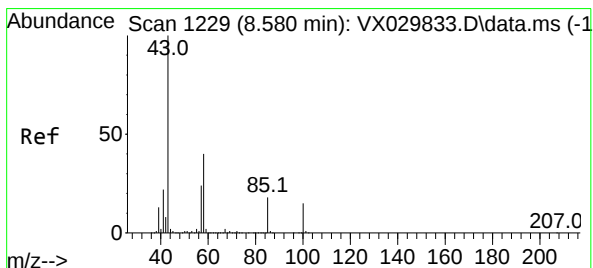
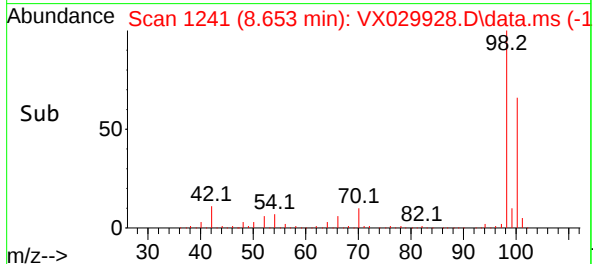
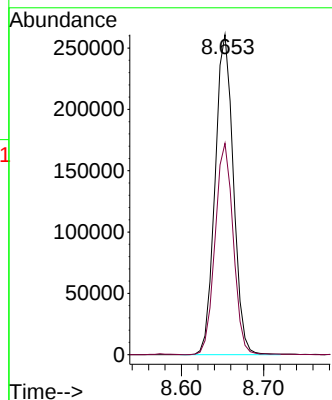
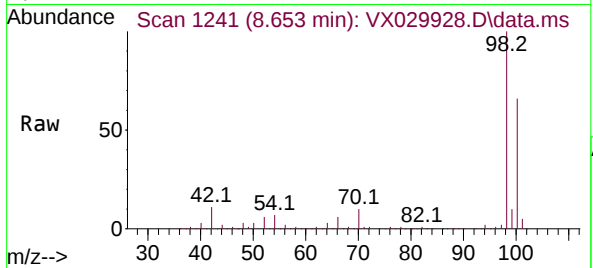




#50
Toluene-d8
Concen: 48.159 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

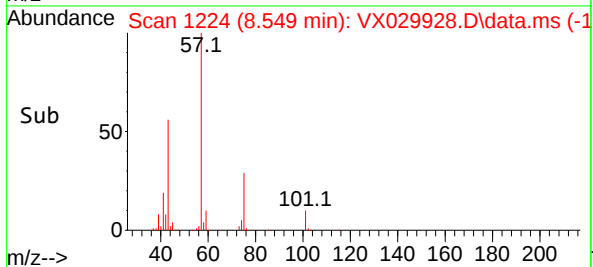
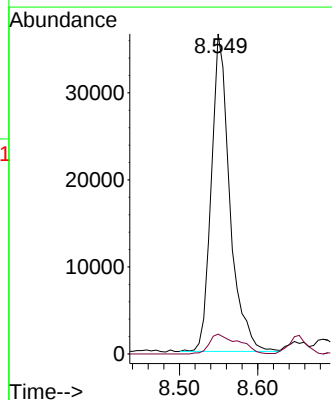
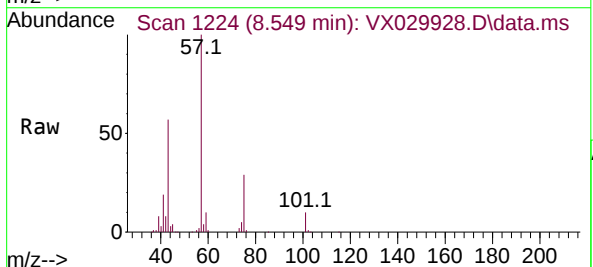
Instrument :
MSVOA_X
ClientSampleId :
PB145991ZHE#14

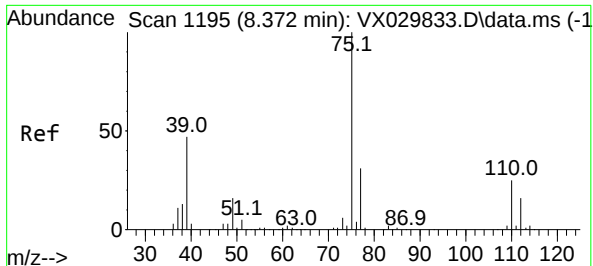
Tgt Ion: 98 Resp: 403154
Ion Ratio Lower Upper
98 100
100 65.7 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 14.852 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.030 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Tgt Ion: 43 Resp: 59861
Ion Ratio Lower Upper
43 100
58 10.0 31.4 47.2#





#54

cis-1,3-Dichloropropene

Concen: 7.993 ug/l

RT: 8.549 min Scan# 1195

Delta R.T. 0.177 min

Lab File: VX029928.D

Acq: 05 Jul 2022 18:13

Instrument :

MSVOA_X

ClientSampleId :

PB145991ZHE#14

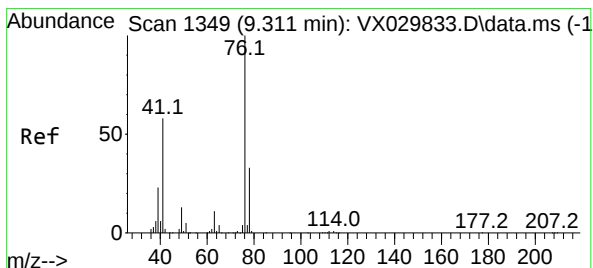
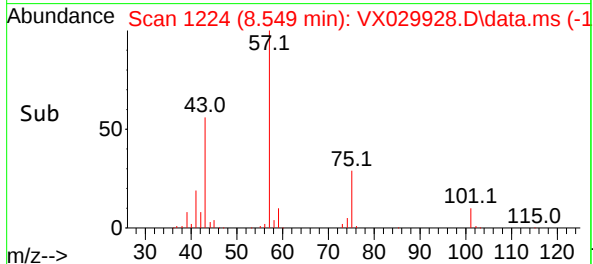
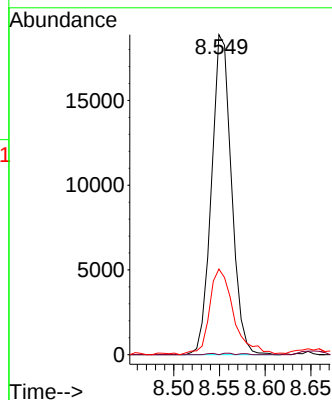
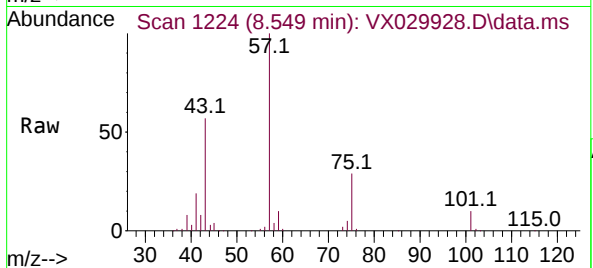
Tgt Ion: 75 Resp: 28612

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 26.7 37.5 56.3#



#57

1,3-Dichloropropane

Concen: 0.899 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.171 min

Lab File: VX029928.D

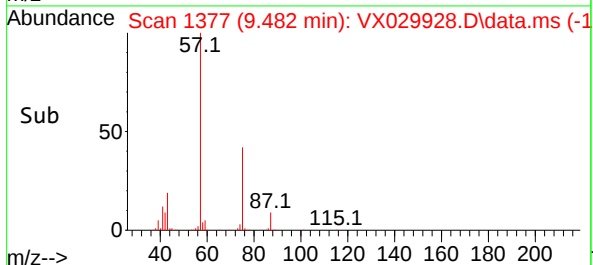
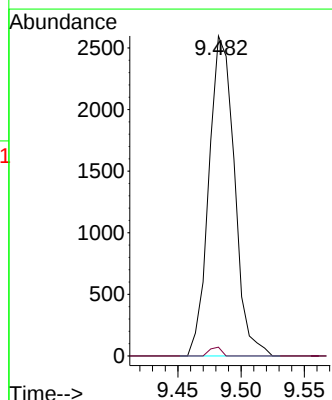
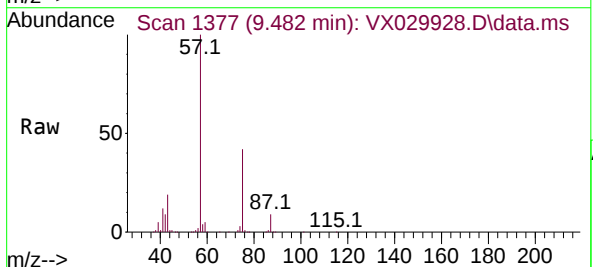
Acq: 05 Jul 2022 18:13

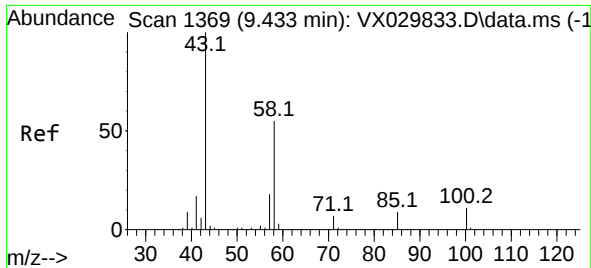
Tgt Ion: 76 Resp: 3647

Ion Ratio Lower Upper

76 100

78 1.3 25.9 38.9#

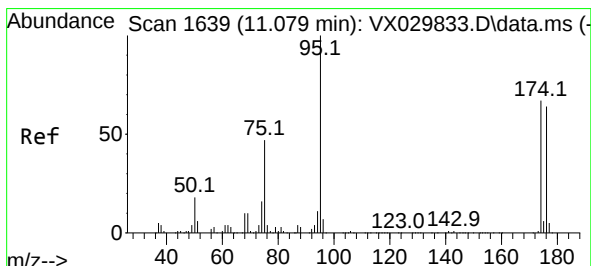
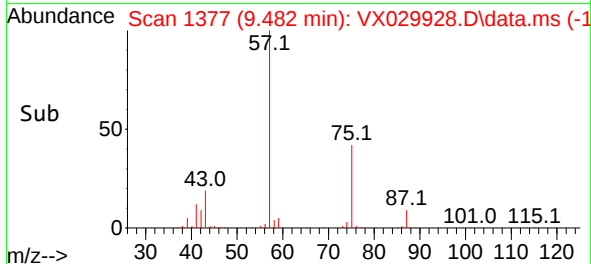
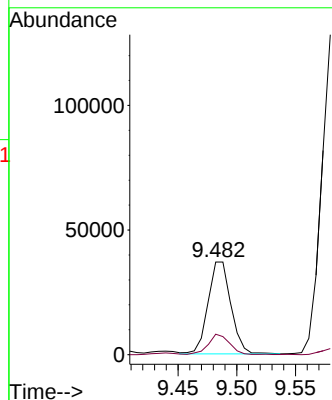
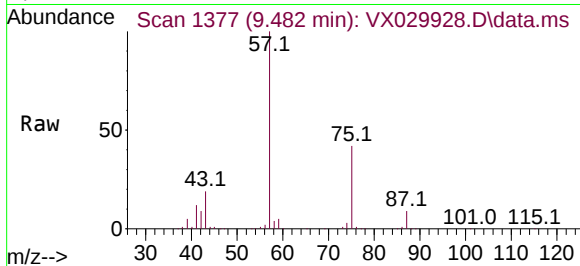




#59
2-Hexanone
Concen: 15.963 ug/l
RT: 9.482 min Scan# 11
Delta R.T. 0.049 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

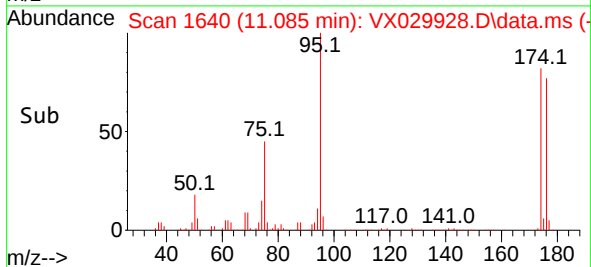
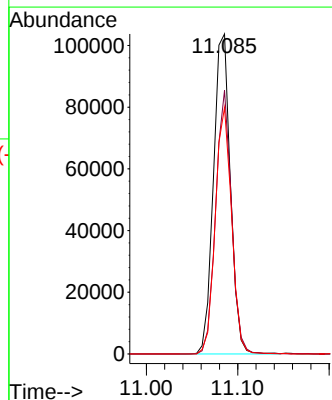
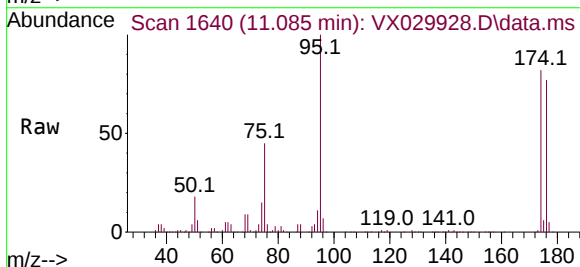
Instrument :
MSVOA_X
ClientSampleId :
PB145991ZHE#14

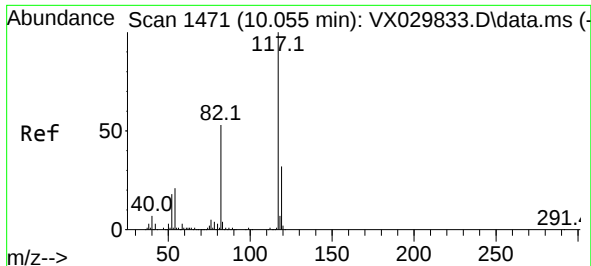
Tgt Ion: 43 Resp: 49930
Ion Ratio Lower Upper
43 100
58 20.2 27.6 82.8#



#62
4-Bromofluorobenzene
Concen: 45.091 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.006 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Tgt Ion: 95 Resp: 133428
Ion Ratio Lower Upper
95 100
174 77.0 0.0 149.0
176 74.3 0.0 146.0

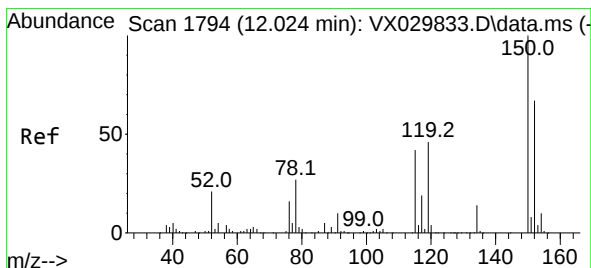
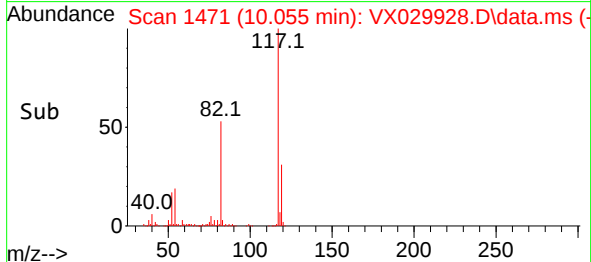
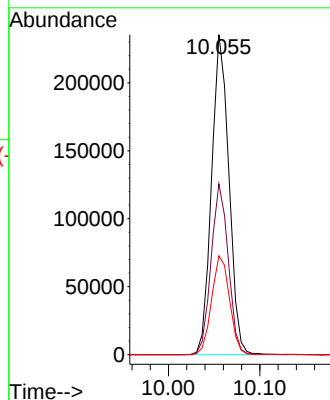
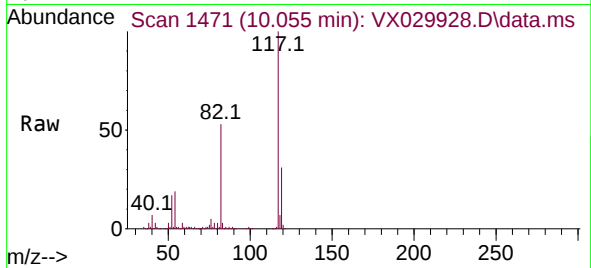




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

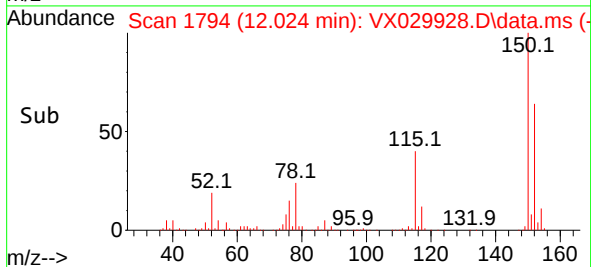
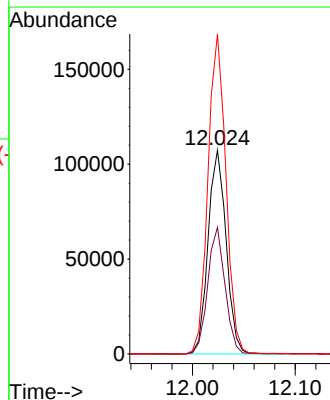
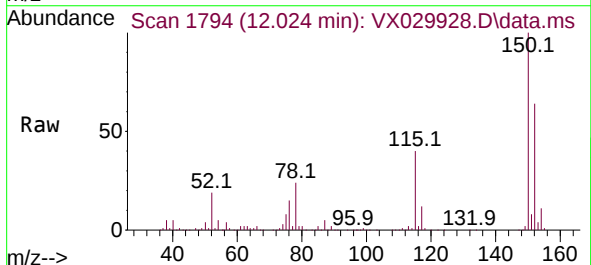
Instrument :
MSVOA_X
ClientSampleId :
PB145991ZHE#14

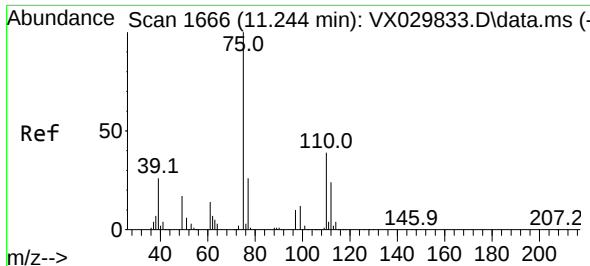
Tgt Ion:117 Resp: 309249
Ion Ratio Lower Upper
117 100
82 53.4 42.7 64.1
119 30.9 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Tgt Ion:152 Resp: 131534
Ion Ratio Lower Upper
152 100
115 59.9 40.5 121.5
150 156.3 0.0 347.0

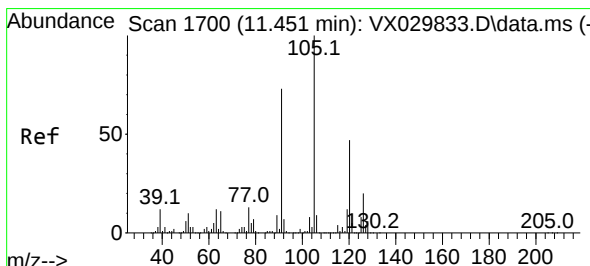
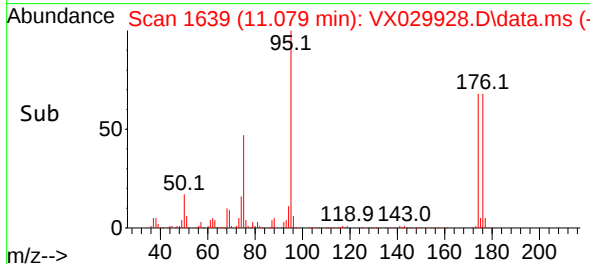
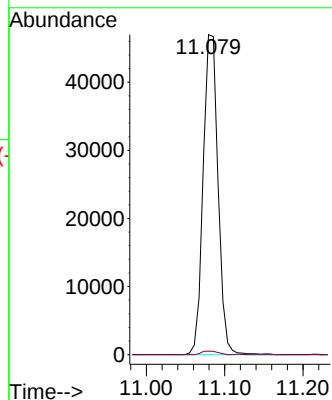
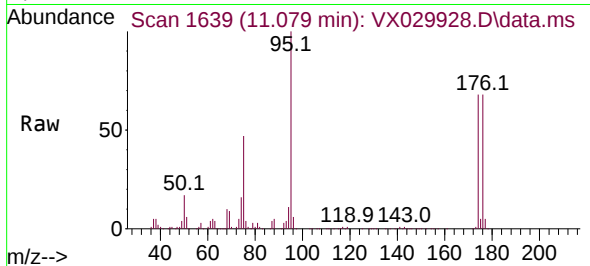




#76
1,2,3-Trichloropropane
Concen: 19.712 ug/l
RT: 11.079 min Scan# 11
Delta R.T. -0.164 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

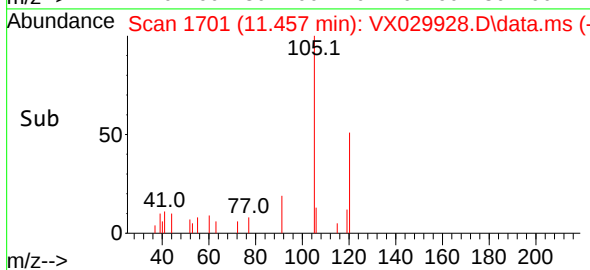
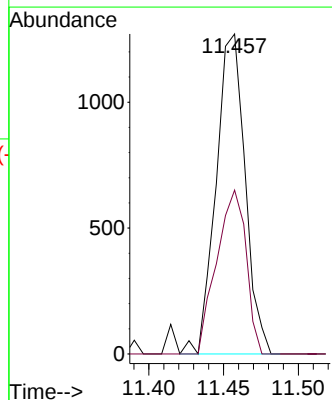
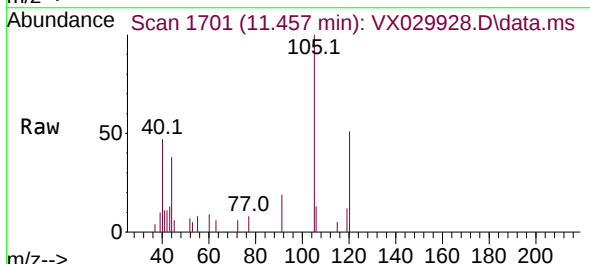
Instrument :
MSVOA_X
ClientSampleId :
PB145991ZHE#14

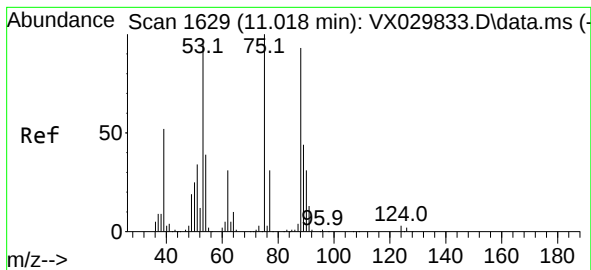
Tgt Ion: 75 Resp: 62069
Ion Ratio Lower Upper
75 100
77 1.3 19.8 59.3#



#80
1,3,5-Trimethylbenzene
Concen: 0.218 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX029928.D
Acq: 05 Jul 2022 18:13

Tgt Ion: 105 Resp: 1719
Ion Ratio Lower Upper
105 100
120 51.7 24.4 73.2





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.602 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX029928.D
 Acq: 05 Jul 2022 18:13

Instrument :
 MSVOA_X
 ClientSampleId :
 PB145991ZHE#14

Tgt Ion: 75 Resp: 62069
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.2 111.4#
 89 0.0 34.8 52.2#

