

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071122\
 Data File : VX030001.D
 Acq On : 11 Jul 2022 16:43
 Operator : JC/MD
 Sample : PB146125ZHE#06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB146125ZHE#06

Quant Time: Jul 12 02:03:59 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)

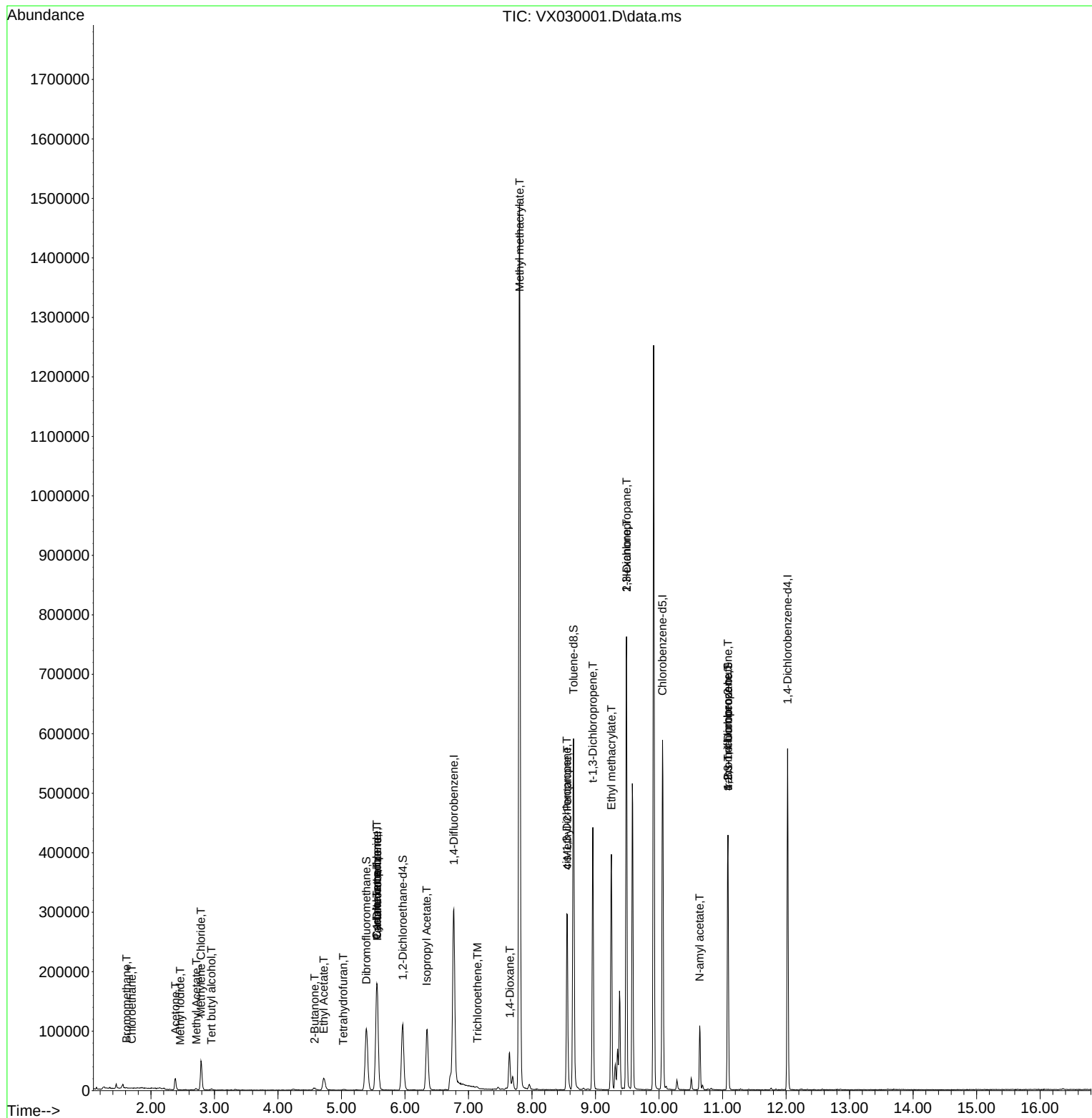
Internal Standards						
1) Pentafluorobenzene	5.562	168	182796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	318164	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	275743	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	117352	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	97816	42.273	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	84.540%
35) Dibromofluoromethane	5.391	113	94091	47.321	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.640%
50) Toluene-d8	8.652	98	358350	48.041	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.080%
62) 4-Bromofluorobenzene	11.085	95	118569	44.968	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	89.940%
Target Compounds						
					Qvalue	
5) Bromomethane	1.617	94	313	0.278	ug/l	97
6) Chloroethane	1.696	64	245	1.196	ug/l #	41
10) Methyl Iodide	2.458	142	30	1.885	ug/l #	45
11) Tert butyl alcohol	2.952	59	1562	2.581	ug/l #	74
13) Acrolein	2.312	56	19	Below Cal	#	14
16) Acetone	2.385	43	20121	17.774	ug/l	92
18) Methyl Acetate	2.715	43	2977	0.853	ug/l	98
20) Methylene Chloride	2.788	84	22006	9.205	ug/l	92
25) 2-Butanone	4.574	43	5541	2.820	ug/l	93
29) Tetrahydrofuran	5.025	42	696	0.538	ug/l #	88
31) Cyclohexane	5.555	56	3659	1.134	ug/l #	1
36) 1,1-Dichloropropene	5.555	75	13163	4.977	ug/l #	50
37) Ethyl Acetate	4.720	43	35417	9.792	ug/l	97
38) Carbon Tetrachloride	5.555	117	16221	7.079	ug/l #	18
43) Isopropyl Acetate	6.342	43	140714	25.836	ug/l	100
44) Trichloroethene	7.141	130	825	0.358	ug/l	67
48) Methyl methacrylate	7.805	41	123296	47.746	ug/l #	41
49) 1,4-Dioxane	7.653	88	24	0.392	ug/l #	1
51) 4-Methyl-2-Pentanone	8.555	43	99282	27.644	ug/l #	50
53) t-1,3-Dichloropropene	8.957	75	1095	0.388	ug/l #	42
54) cis-1,3-Dichloropropene	8.549	75	51926	16.279	ug/l #	59
56) Ethyl methacrylate	9.250	69	768	0.217	ug/l #	1
57) 1,3-Dichloropropane	9.488	76	6389	1.766	ug/l #	42
59) 2-Hexanone	9.488	43	84804	30.427	ug/l #	51
74) N-amyl acetate	10.640	43	26419	6.284	ug/l #	53
76) 1,2,3-Trichloropropane	11.085	75	53401	19.009	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.085	75	53401	60.368	ug/l #	13

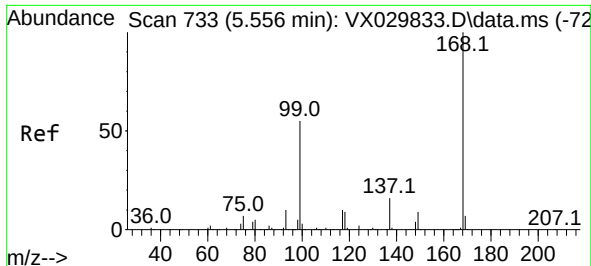
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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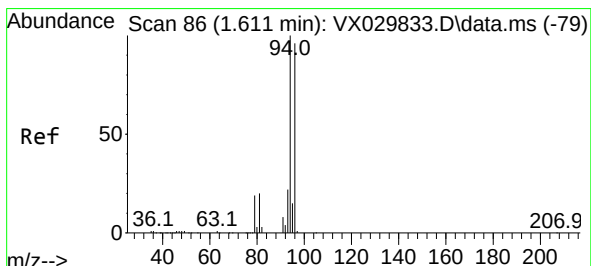
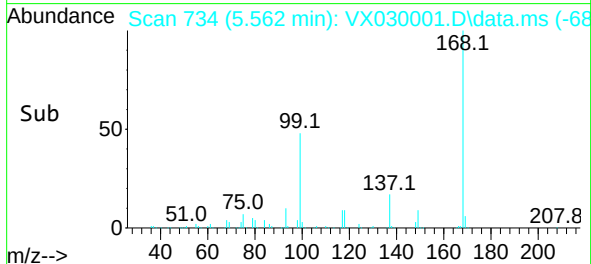
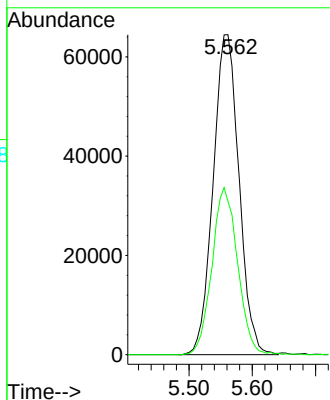
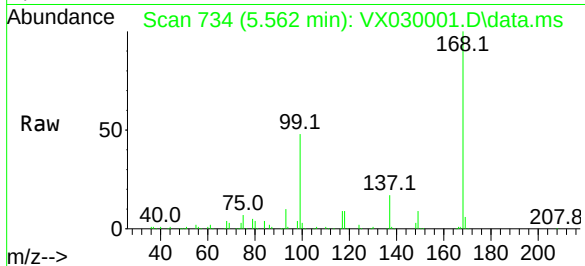




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

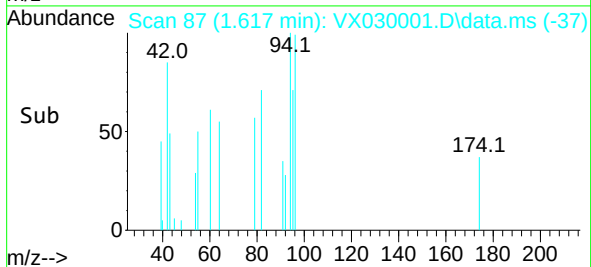
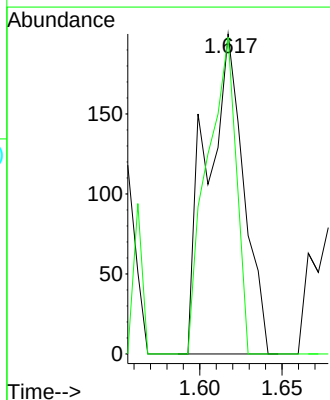
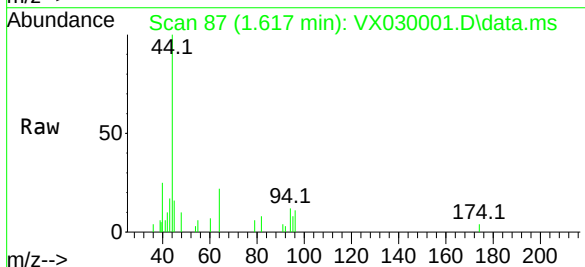
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

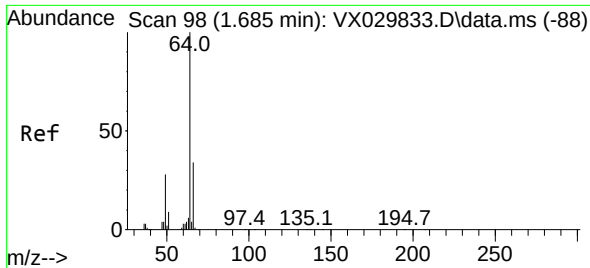
Tgt Ion:168 Resp: 182796
Ion Ratio Lower Upper
168 100
99 47.9 44.0 66.0



#5
Bromomethane
Concen: 0.278 ug/l
RT: 1.617 min Scan# 87
Delta R.T. 0.006 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Tgt Ion: 94 Resp: 313
Ion Ratio Lower Upper
94 100
96 99.0 76.9 115.3

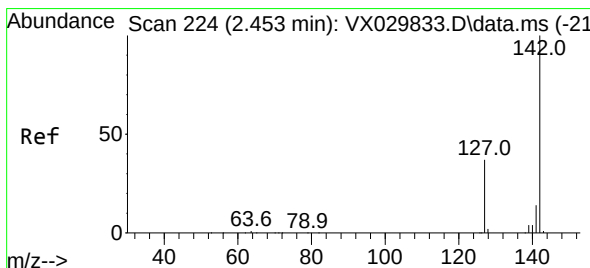
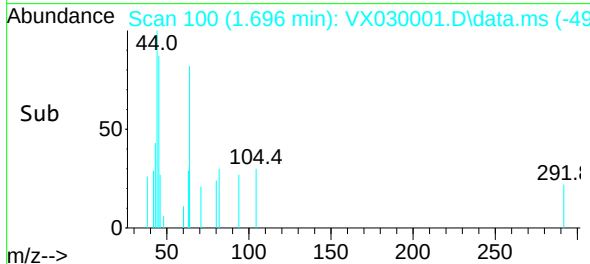
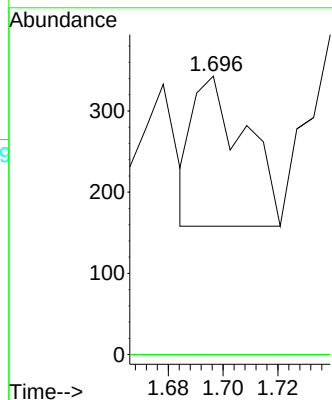
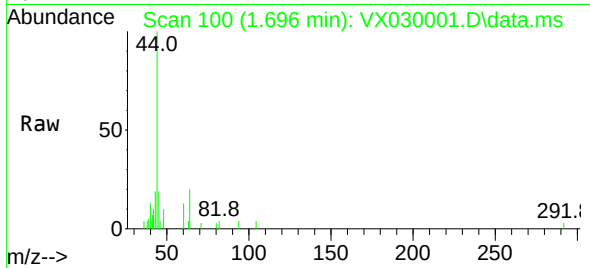




#6
Chloroethane
Concen: 1.196 ug/l
RT: 1.696 min Scan# 100
Delta R.T. 0.011 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

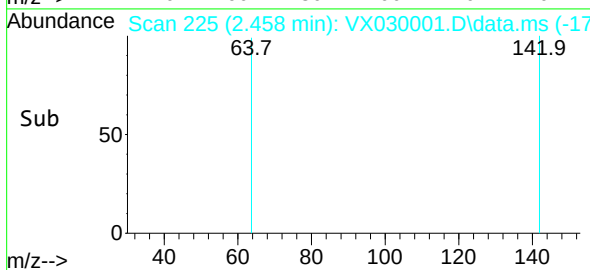
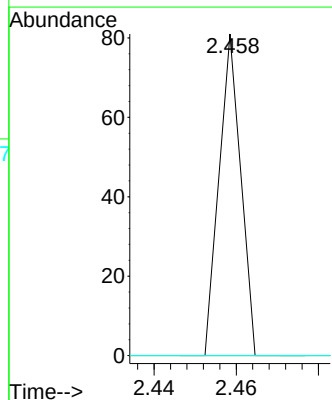
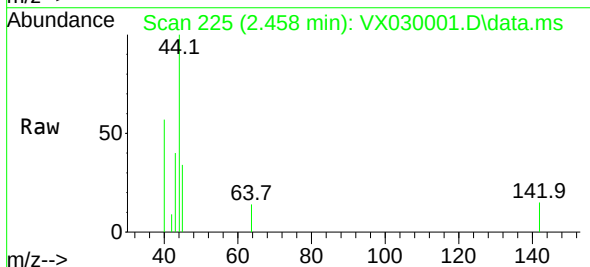
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

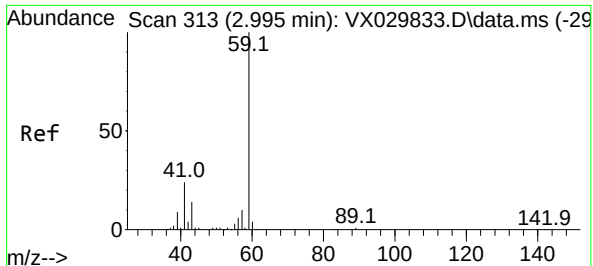
Tgt Ion: 64 Resp: 245
Ion Ratio Lower Upper
64 100
66 0.0 27.2 40.8#



#10
Methyl Iodide
Concen: 1.885 ug/l
RT: 2.458 min Scan# 225
Delta R.T. 0.005 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Tgt Ion: 142 Resp: 30
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: 2.581 ug/l

RT: 2.952 min Scan# 306

Delta R.T. -0.043 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

Instrument :

MSVOA_X

ClientSampleId :

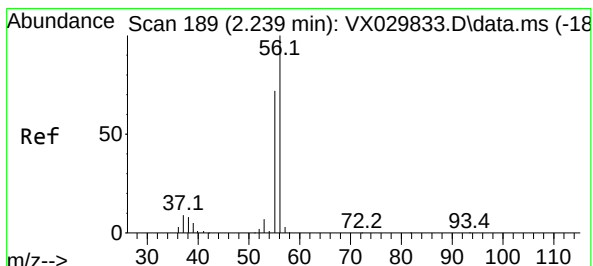
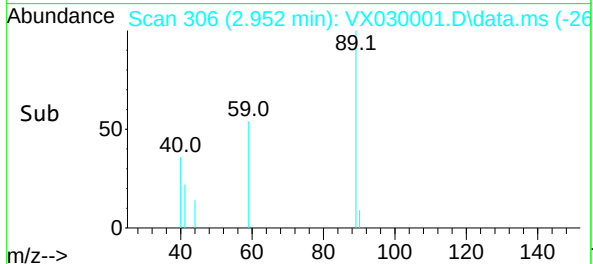
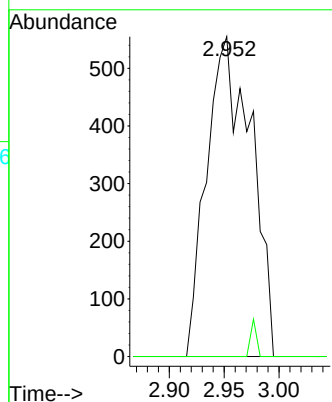
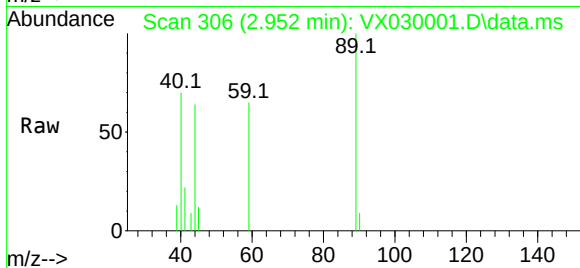
PB146125ZHE#06

Tgt Ion: 59 Resp: 1562

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



#13

Acrolein

Concen: Below Cal

RT: 2.312 min Scan# 201

Delta R.T. 0.073 min

Lab File: VX030001.D

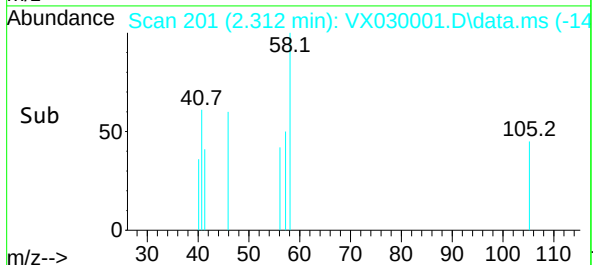
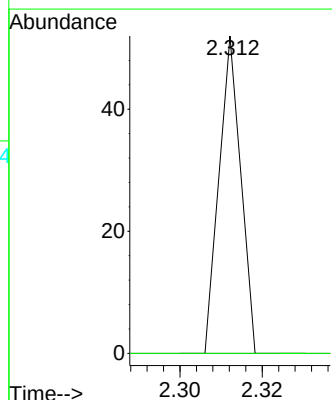
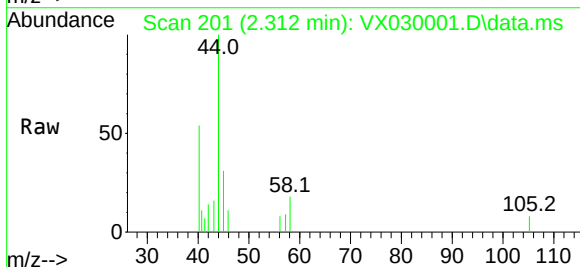
Acq: 11 Jul 2022 16:43

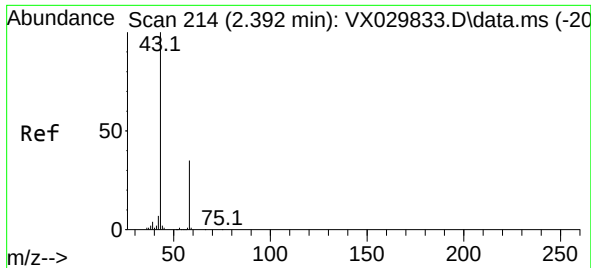
Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 56.6 84.8#

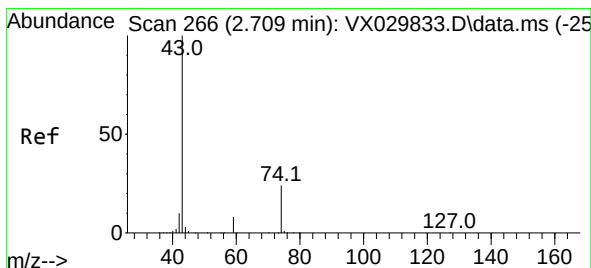
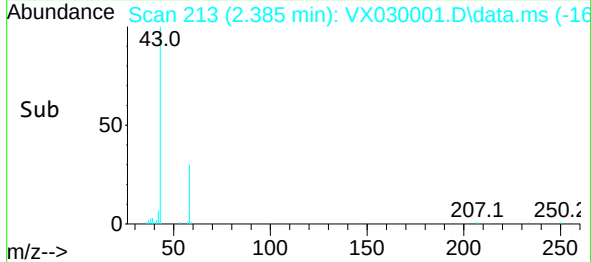
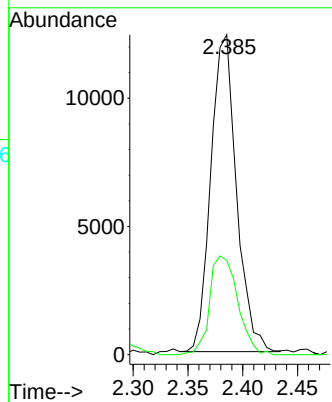
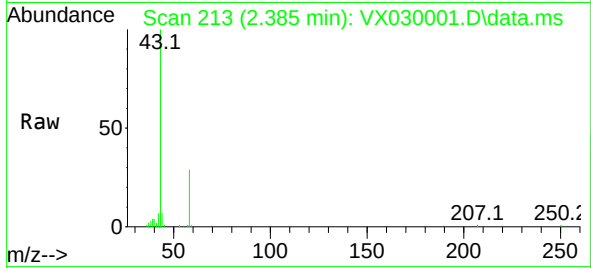




#16
Acetone
Concen: 17.774 ug/l
RT: 2.385 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

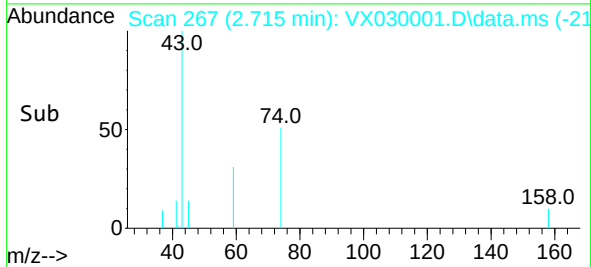
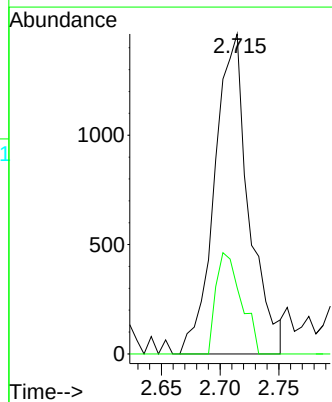
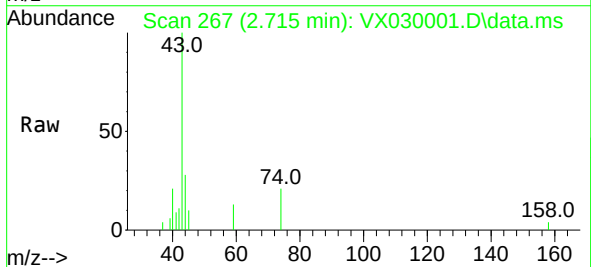
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

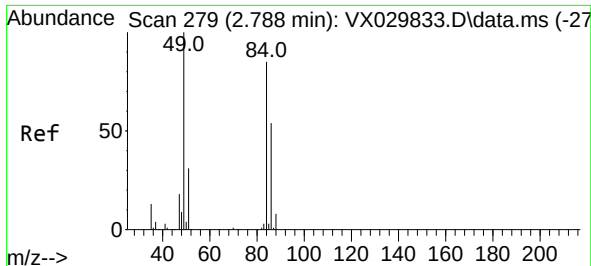
Tgt Ion: 43 Resp: 20121
Ion Ratio Lower Upper
43 100
58 29.8 27.7 41.5



#18
Methyl Acetate
Concen: 0.853 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.006 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

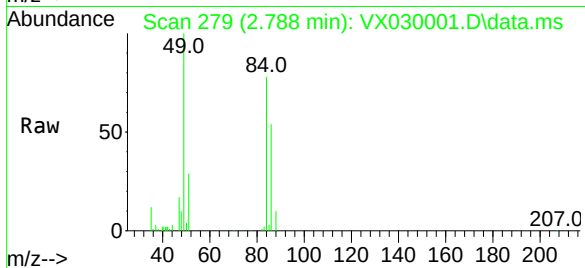
Tgt Ion: 43 Resp: 2977
Ion Ratio Lower Upper
43 100
74 23.1 19.4 29.2



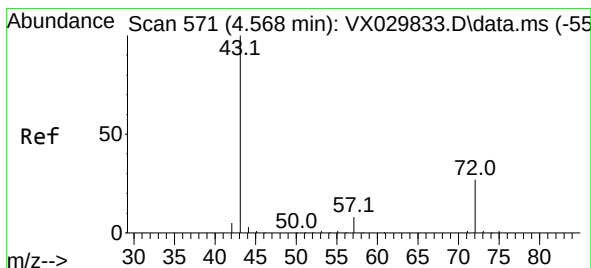
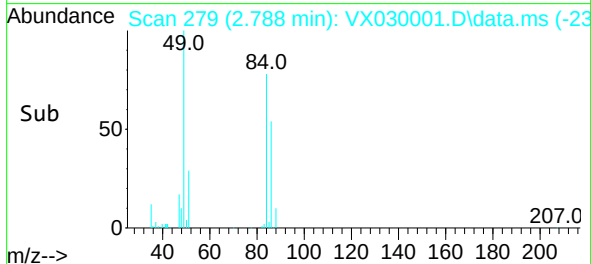
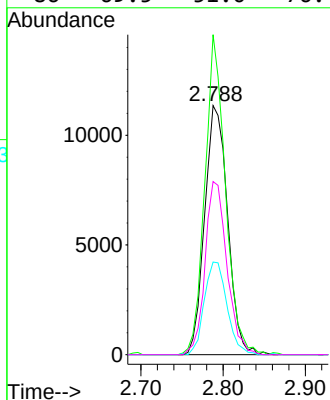


#20
Methylene Chloride
Concen: 9.205 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

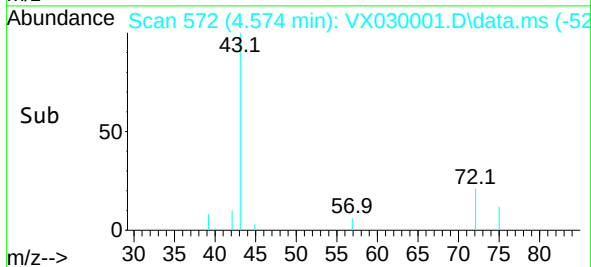
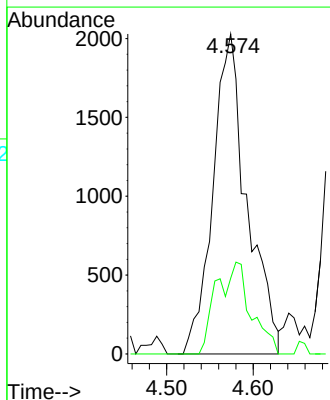
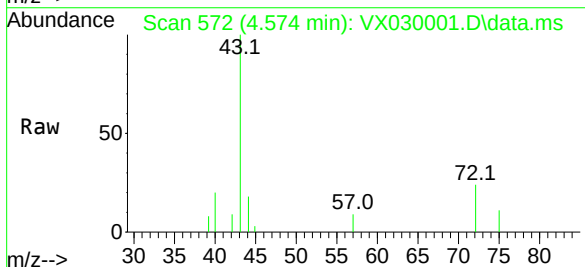


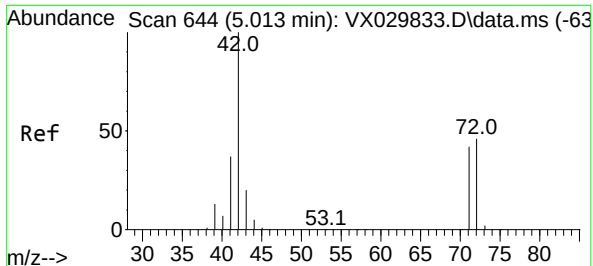
Tgt Ion:	84	Resp:	22006
Ion	Ratio	Lower	Upper
84	100		
49	128.5	93.8	140.6
51	37.2	29.4	44.0
86	69.5	51.0	76.4



#25
2-Butanone
Concen: 2.820 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.006 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Tgt Ion:	43	Resp:	5541
Ion	Ratio	Lower	Upper
43	100		
72	23.7	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.538 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.012 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

Instrument :

MSVOA_X

ClientSampleId :

PB146125ZHE#06

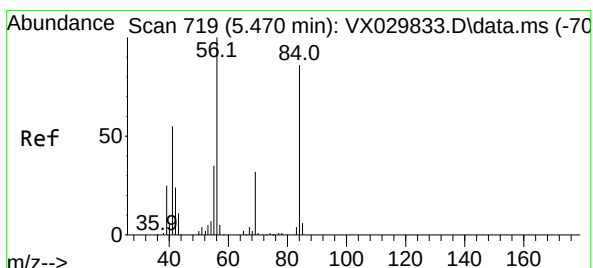
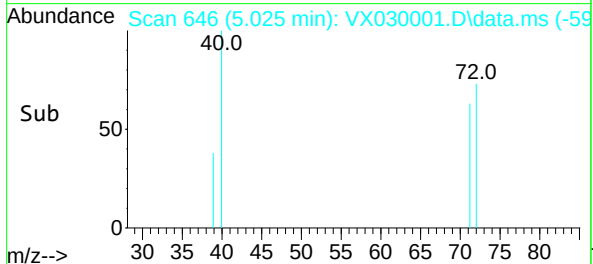
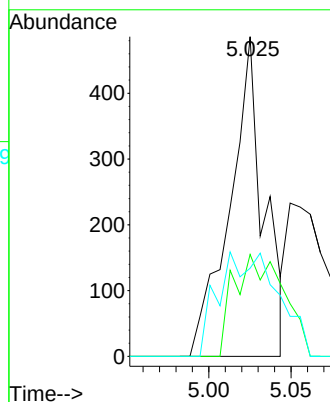
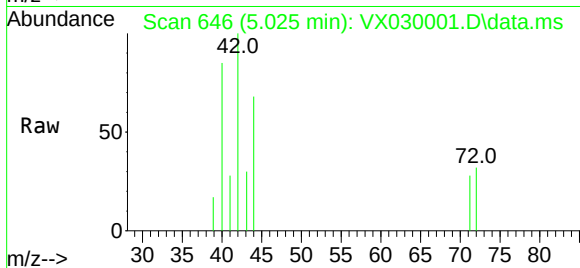
Tgt Ion: 42 Resp: 696

Ion Ratio Lower Upper

42 100

72 46.6 36.5 54.7

71 56.8 33.9 50.9#



#31

Cyclohexane

Concen: 1.134 ug/l

RT: 5.555 min Scan# 733

Delta R.T. 0.085 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

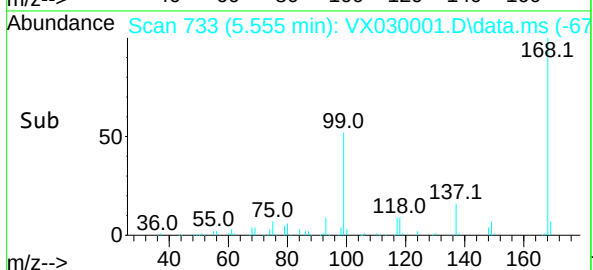
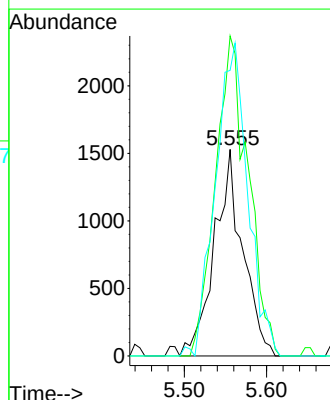
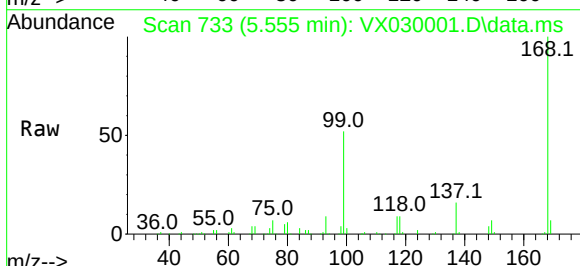
Tgt Ion: 56 Resp: 3659

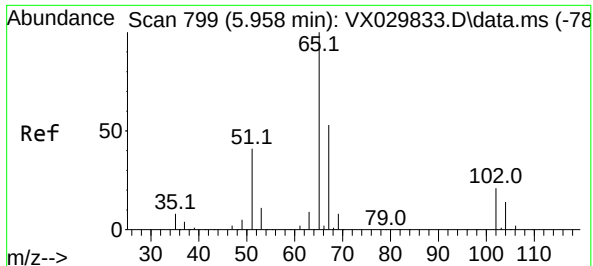
Ion Ratio Lower Upper

56 100

69 154.9 25.4 38.0#

84 138.3 68.9 103.3#





#33

1,2-Dichloroethane-d4

Concen: 42.273 ug/l

RT: 5.964 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

Instrument :

MSVOA_X

ClientSampleId :

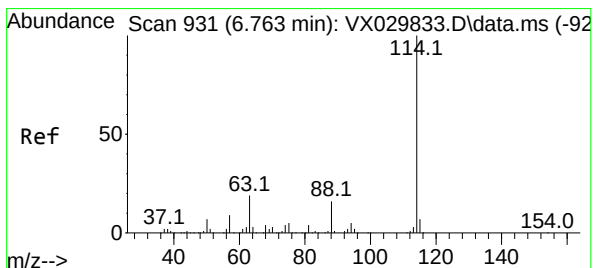
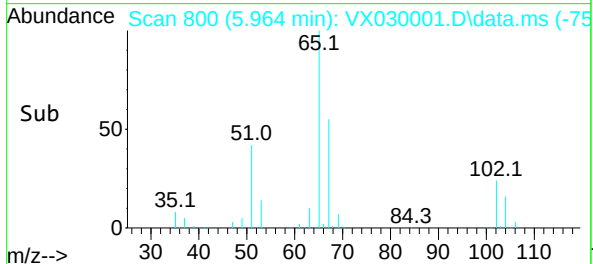
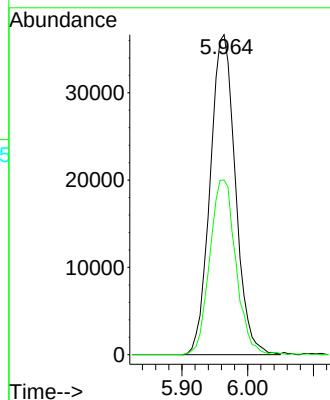
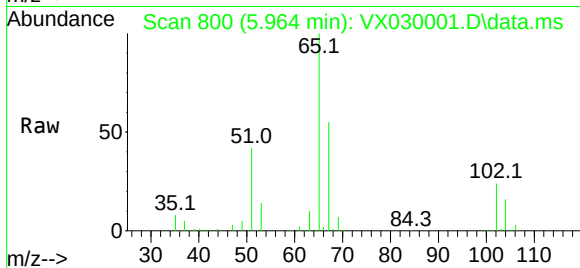
PB146125ZHE#06

Tgt Ion: 65 Resp: 97816

Ion Ratio Lower Upper

65 100

67 56.3 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: VX030001.D

Acq: 11 Jul 2022 16:43

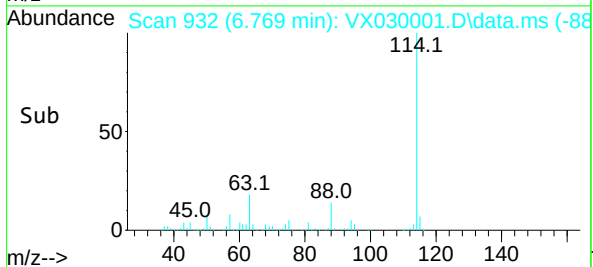
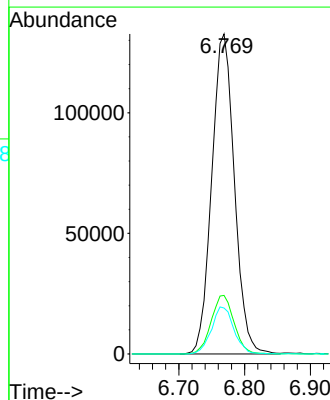
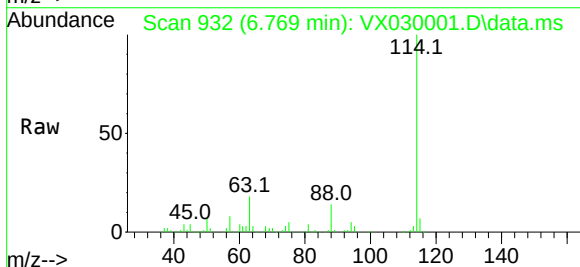
Tgt Ion: 114 Resp: 318164

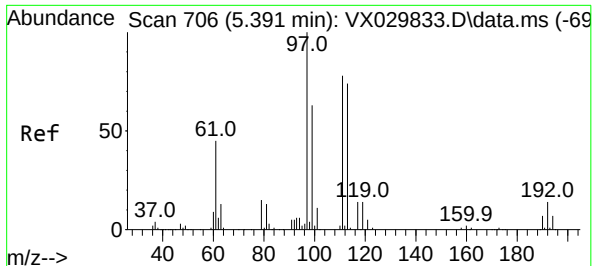
Ion Ratio Lower Upper

114 100

63 18.3 0.0 38.4

88 14.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 47.321 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.000 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

Instrument :

MSVOA_X

ClientSampleId :

PB146125ZHE#06

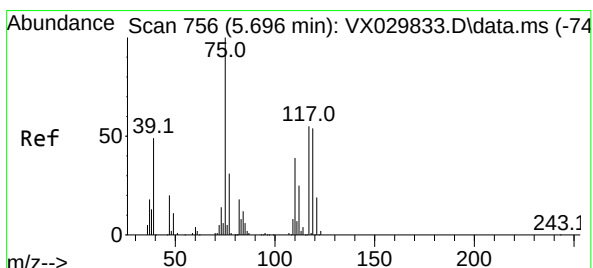
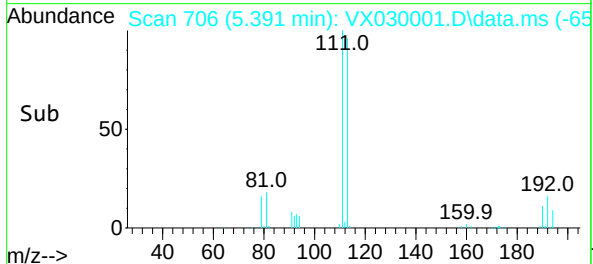
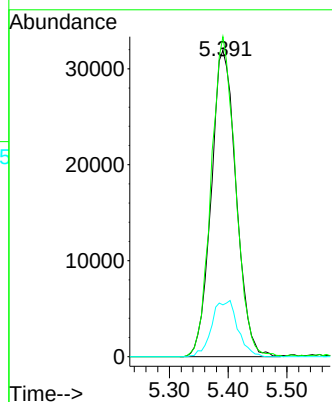
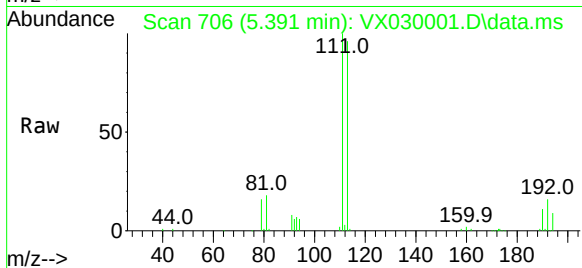
Tgt Ion:113 Resp: 94091

Ion Ratio Lower Upper

113 100

111 102.4 83.2 124.8

192 19.0 14.8 22.2



#36

1,1-Dichloropropene

Concen: 4.977 ug/l

RT: 5.555 min Scan# 733

Delta R.T. -0.141 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

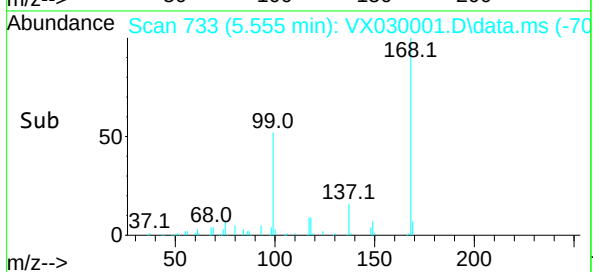
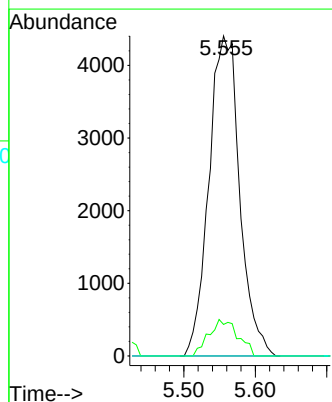
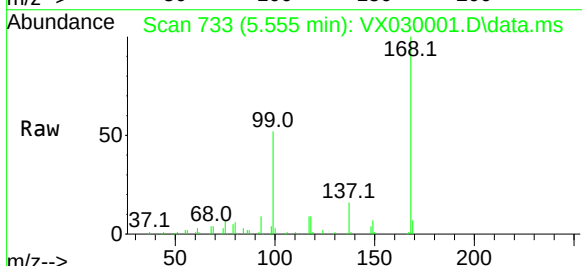
Tgt Ion: 75 Resp: 13163

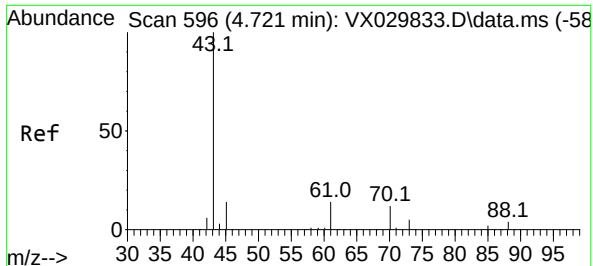
Ion Ratio Lower Upper

75 100

110 10.7 19.3 57.9#

77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 9.792 ug/l

RT: 4.720 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

Instrument :

MSVOA_X

ClientSampleId :

PB146125ZHE#06

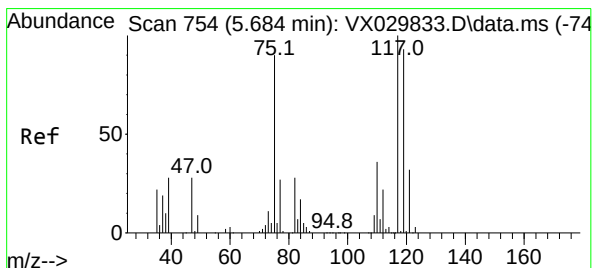
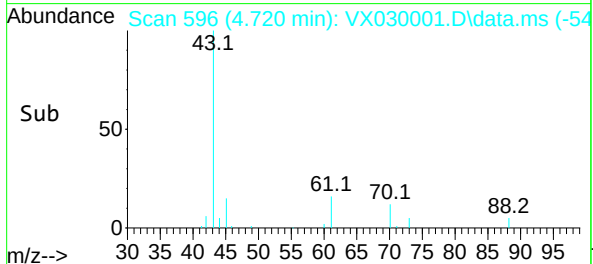
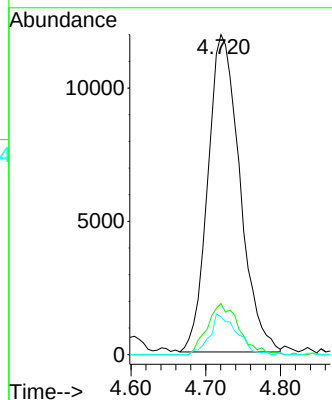
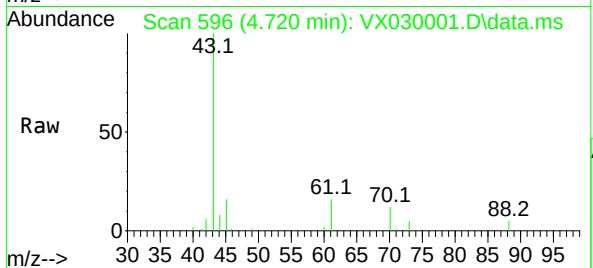
Tgt Ion: 43 Resp: 35417

Ion Ratio Lower Upper

43 100

61 16.0 11.7 17.5

70 10.9 9.3 13.9



#38

Carbon Tetrachloride

Concen: 7.079 ug/l

RT: 5.555 min Scan# 733

Delta R.T. -0.128 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

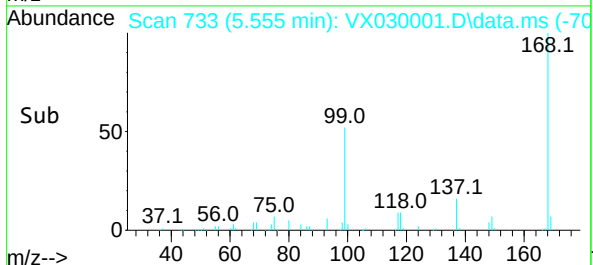
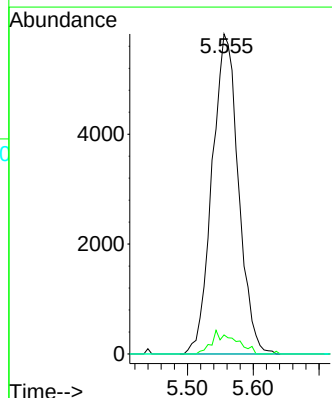
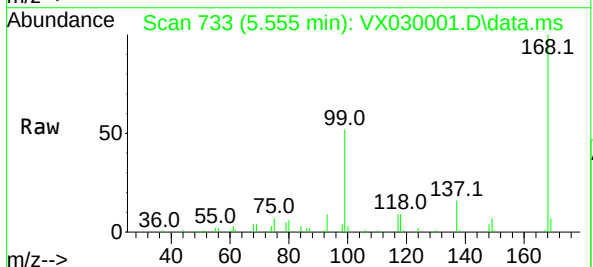
Tgt Ion: 117 Resp: 16221

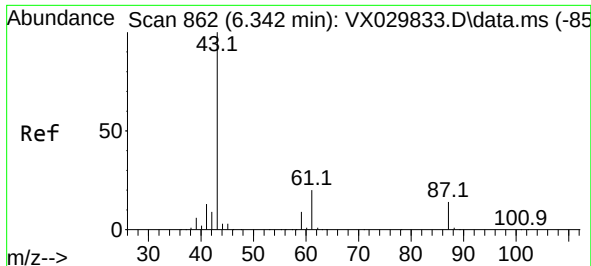
Ion Ratio Lower Upper

117 100

119 6.0 74.1 111.1#

121 0.0 25.8 38.8#

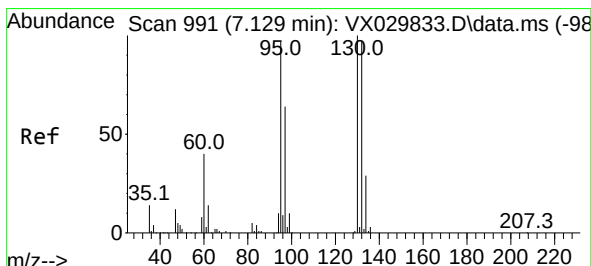
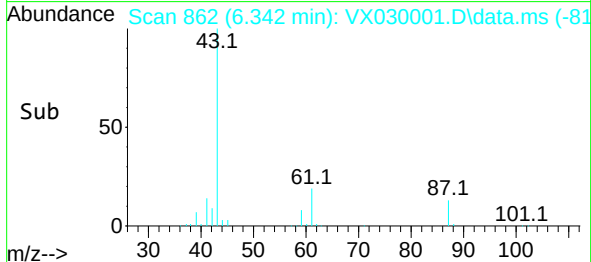
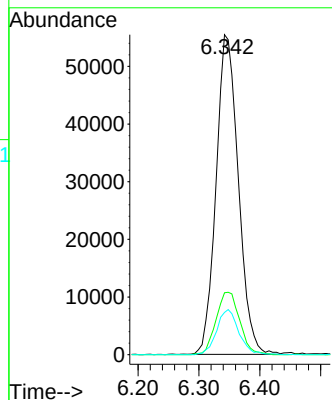
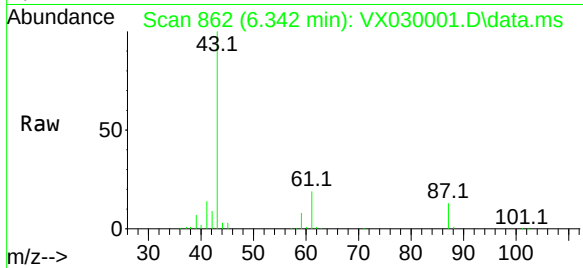




#43
Isopropyl Acetate
Concen: 25.836 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.000 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

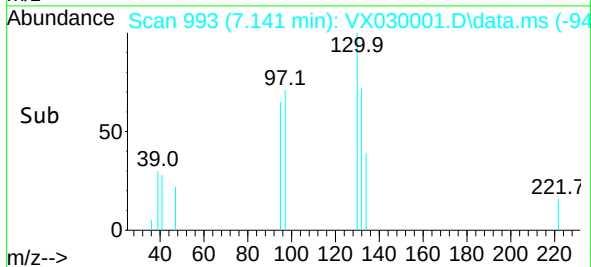
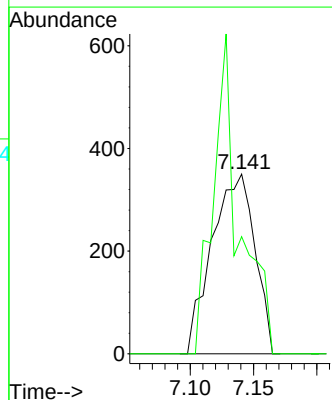
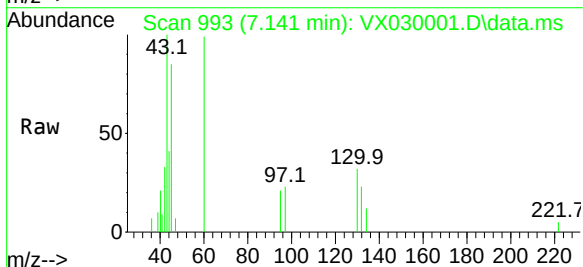
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

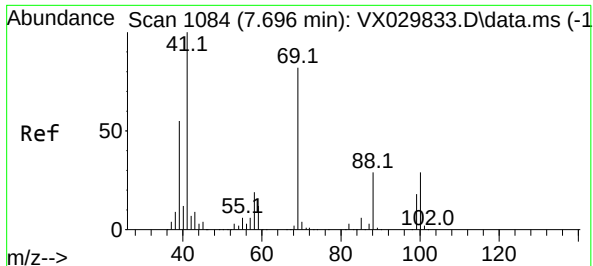
Tgt Ion: 43 Resp: 140714
Ion Ratio Lower Upper
43 100
61 20.7 16.5 24.7
87 14.1 11.1 16.7



#44
Trichloroethene
Concen: 0.358 ug/l
RT: 7.141 min Scan# 993
Delta R.T. 0.012 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Tgt Ion: 130 Resp: 825
Ion Ratio Lower Upper
130 100
95 65.1 0.0 194.8

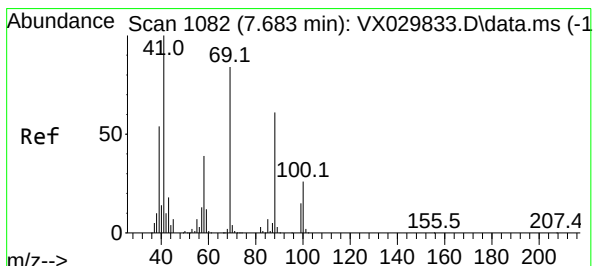
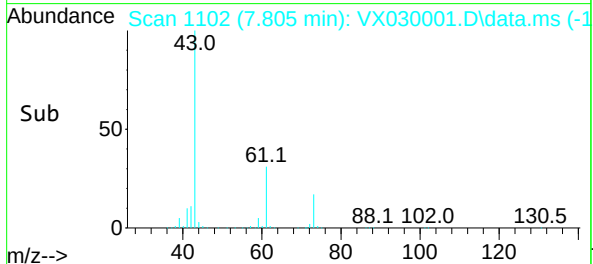
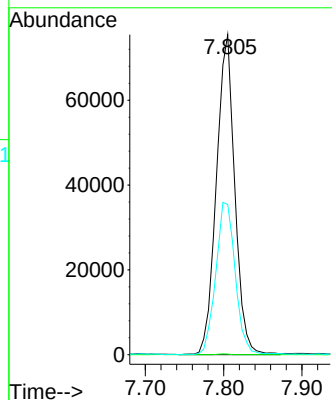
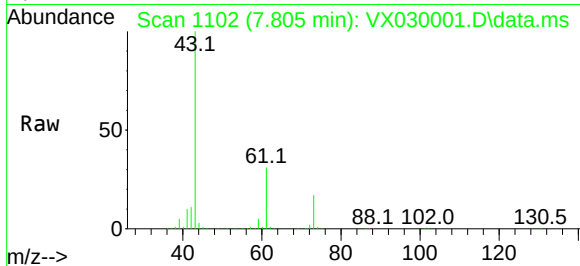




#48
Methyl methacrylate
Concen: 47.746 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. 0.109 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

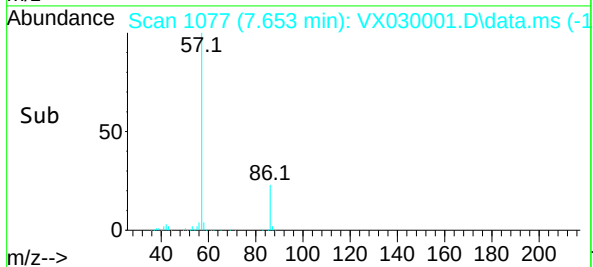
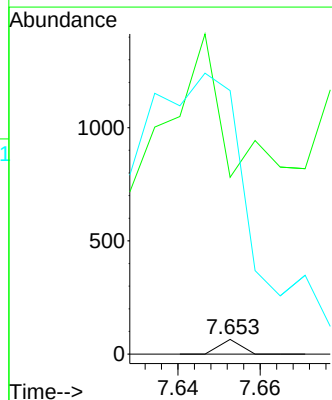
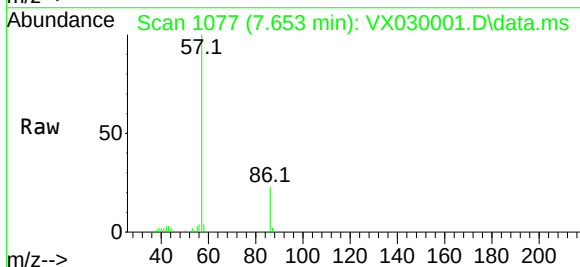
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

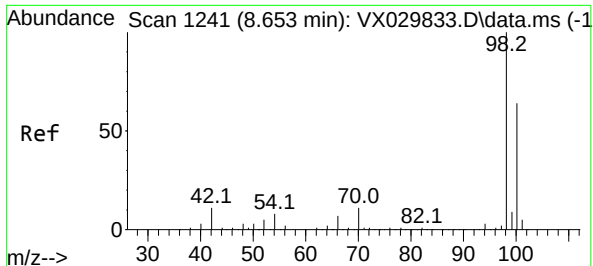
Tgt Ion: 41 Resp: 123296
Ion Ratio Lower Upper
41 100
69 0.1 68.8 103.2#
39 50.7 44.6 66.8



#49
1,4-Dioxane
Concen: 0.392 ug/l
RT: 7.653 min Scan# 1077
Delta R.T. -0.031 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 0.0 23.8 35.8#
58 10975.0 53.8 80.6#

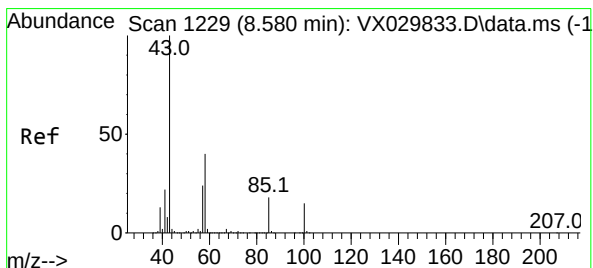
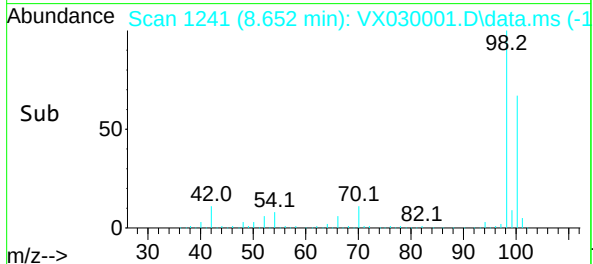
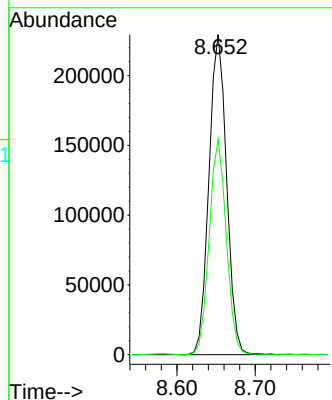
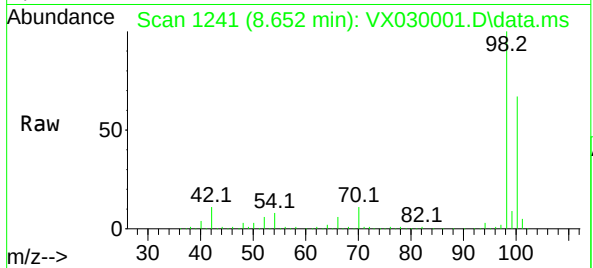




#50
Toluene-d8
Concen: 48.041 ug/l
RT: 8.652 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

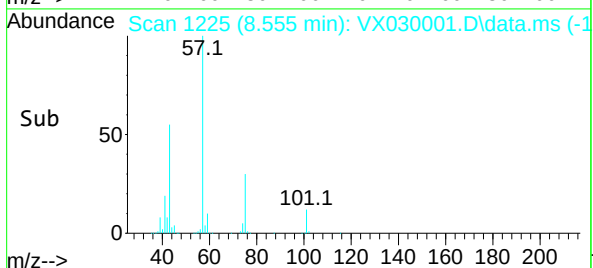
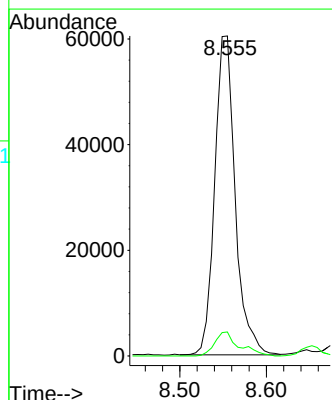
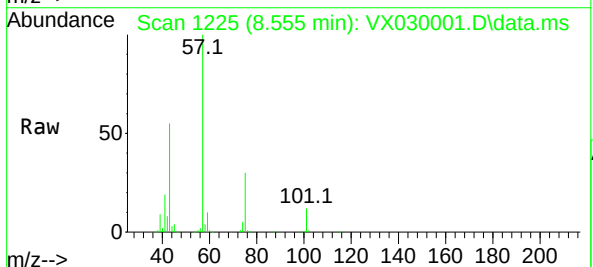
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

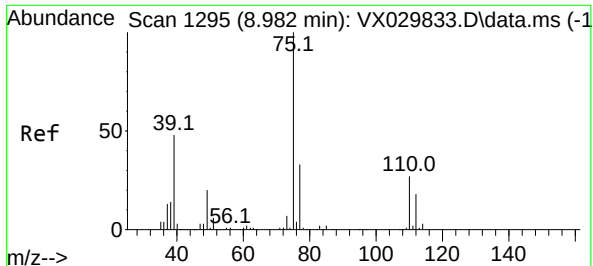
Tgt Ion: 98 Resp: 358350
Ion Ratio Lower Upper
98 100
100 65.6 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 27.644 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.025 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Tgt Ion: 43 Resp: 99282
Ion Ratio Lower Upper
43 100
58 8.9 31.4 47.2#





#53

t-1,3-Dichloropropene

Concen: 0.388 ug/l

RT: 8.957 min Scan# 11

Delta R.T. -0.025 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

Instrument :

MSVOA_X

ClientSampleId :

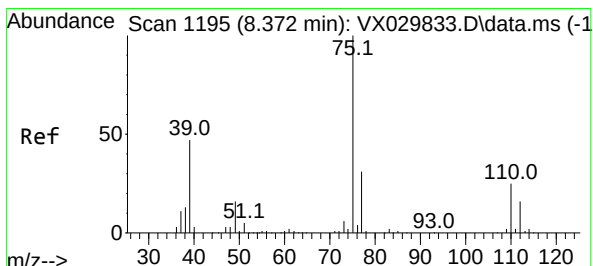
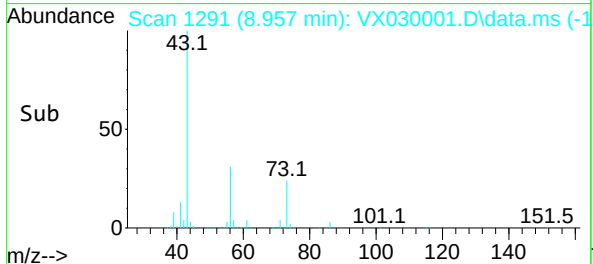
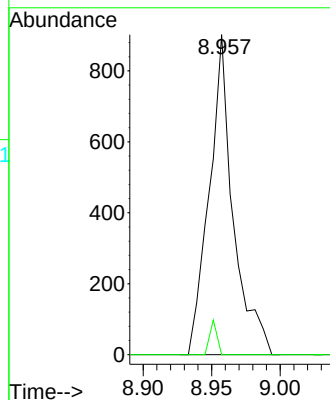
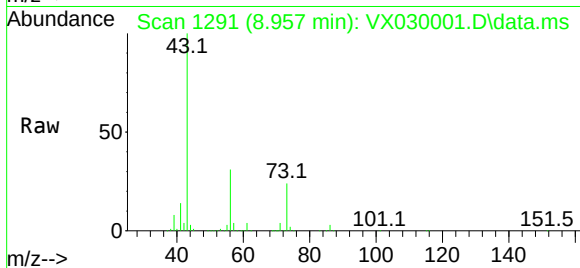
PB146125ZHE#06

Tgt Ion: 75 Resp: 1095

Ion Ratio Lower Upper

75 100

77 0.0 26.3 39.5#



#54

cis-1,3-Dichloropropene

Concen: 16.279 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.176 min

Lab File: VX030001.D

Acq: 11 Jul 2022 16:43

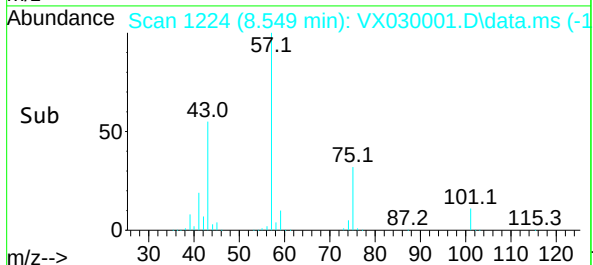
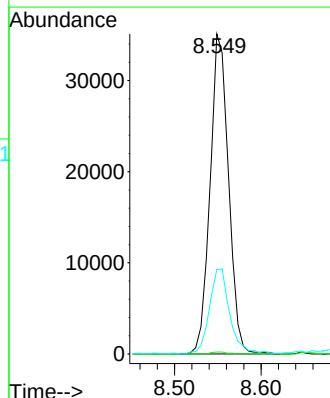
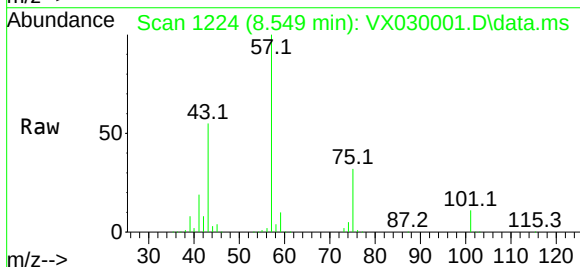
Tgt Ion: 75 Resp: 51926

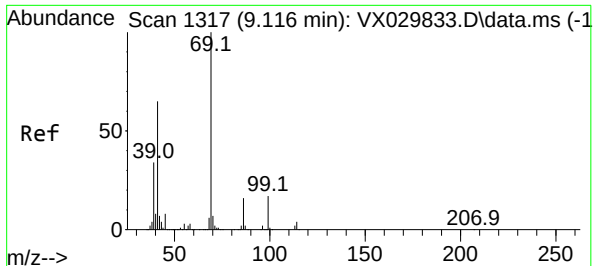
Ion Ratio Lower Upper

75 100

77 0.6 25.0 37.4#

39 26.3 37.5 56.3#

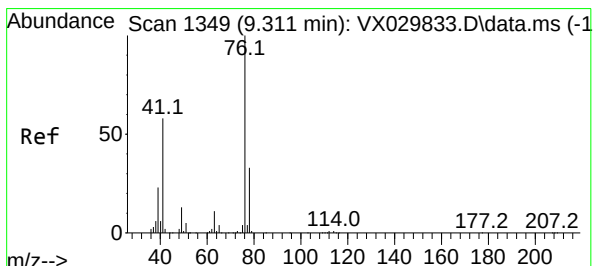
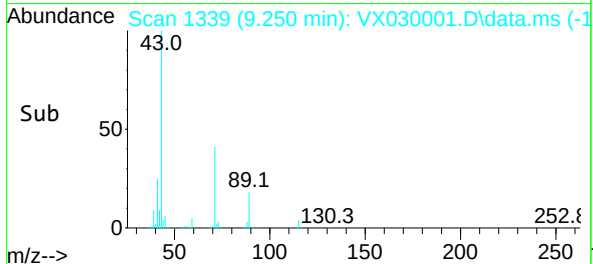
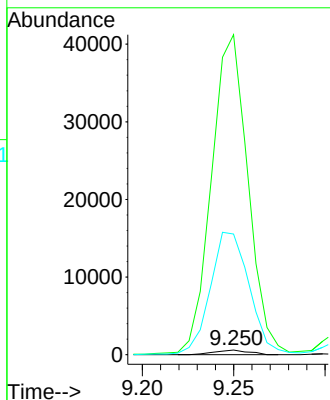
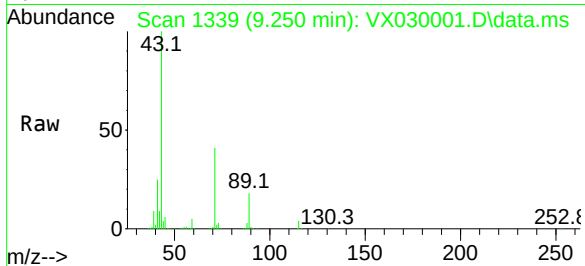




#56
Ethyl methacrylate
Concen: 0.217 ug/l
RT: 9.250 min Scan# 11
Delta R.T. 0.134 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

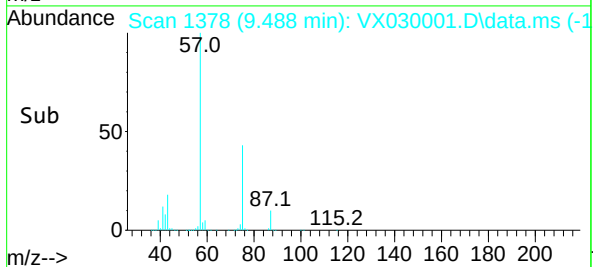
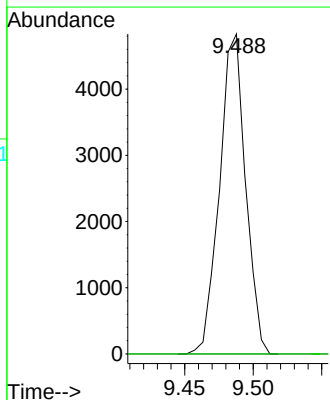
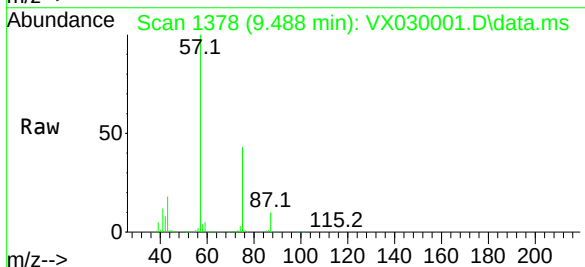
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

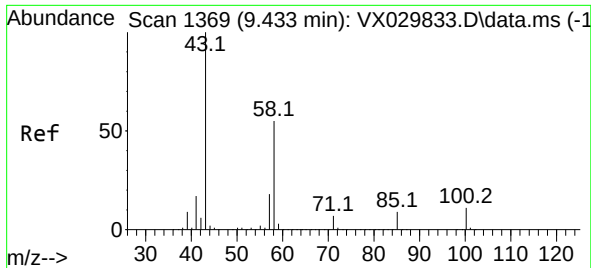
Tgt Ion: 69 Resp: 768
Ion Ratio Lower Upper
69 100
41 7491.5 52.3 78.5#
39 3073.8 28.2 42.4#



#57
1,3-Dichloropropane
Concen: 1.766 ug/l
RT: 9.488 min Scan# 1378
Delta R.T. 0.176 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Tgt Ion: 76 Resp: 6389
Ion Ratio Lower Upper
76 100
78 0.0 25.9 38.9#

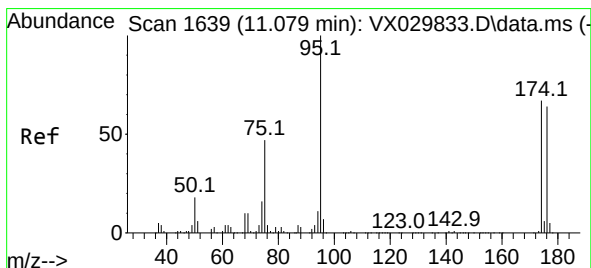
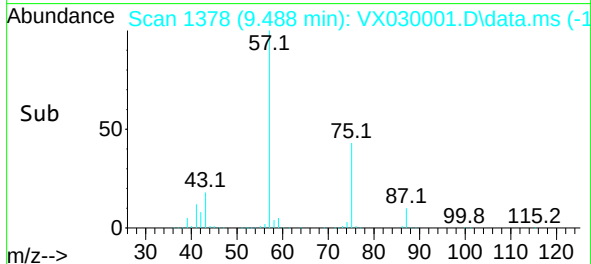
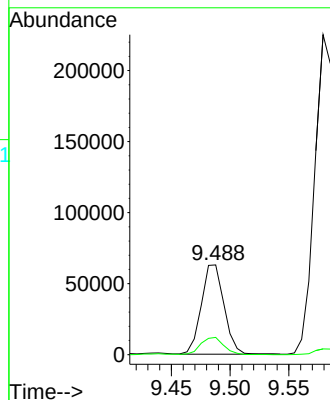
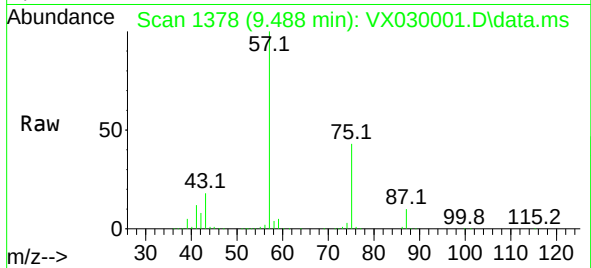




#59
2-Hexanone
Concen: 30.427 ug/l
RT: 9.488 min Scan# 11
Delta R.T. 0.055 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

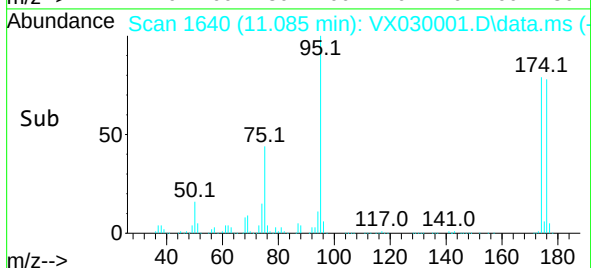
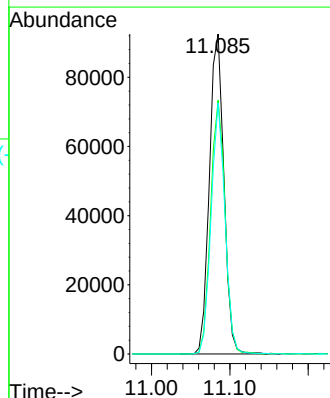
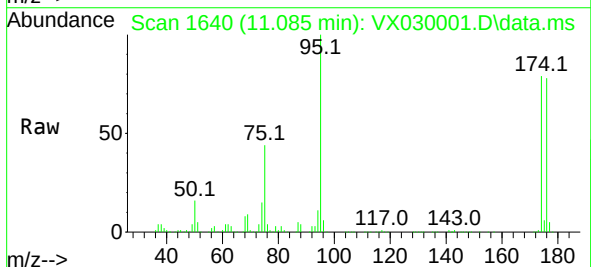
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

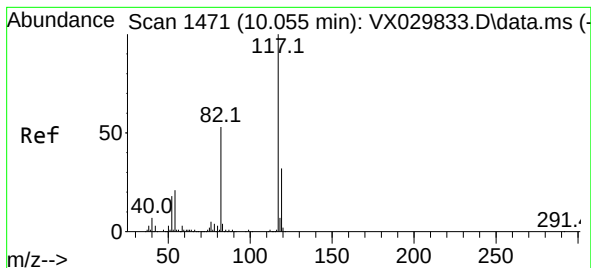
Tgt Ion: 43 Resp: 84804
Ion Ratio Lower Upper
43 100
58 19.8 27.6 82.8#



#62
4-Bromofluorobenzene
Concen: 44.968 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.006 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Tgt Ion: 95 Resp: 118569
Ion Ratio Lower Upper
95 100
174 78.8 0.0 149.0
176 75.2 0.0 146.0

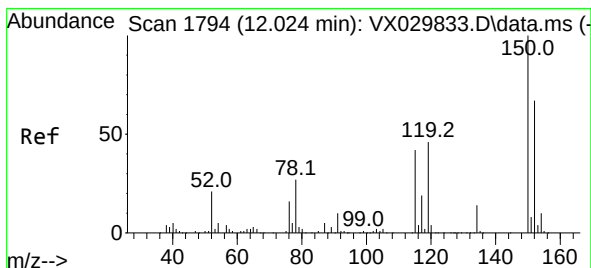
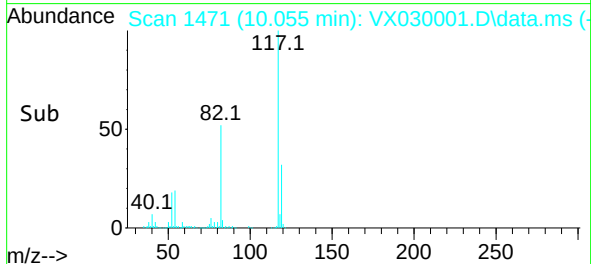
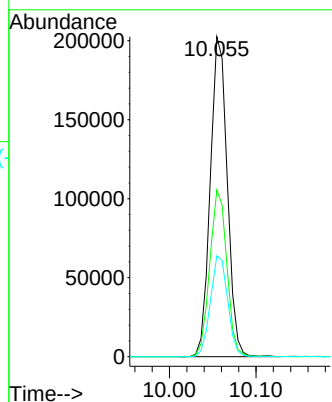
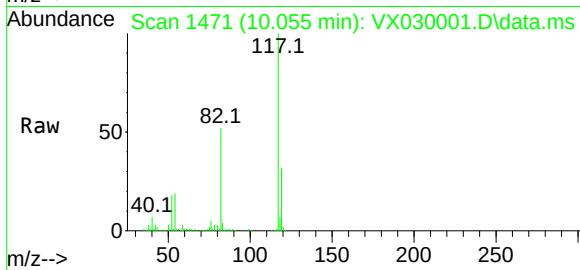




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

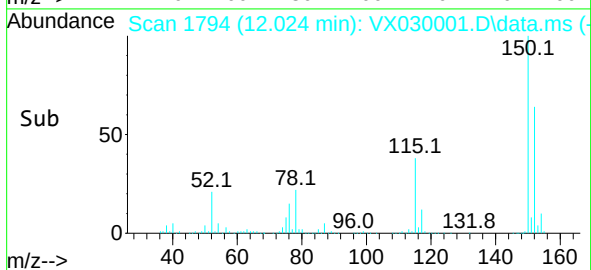
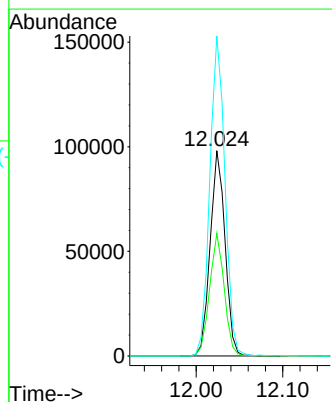
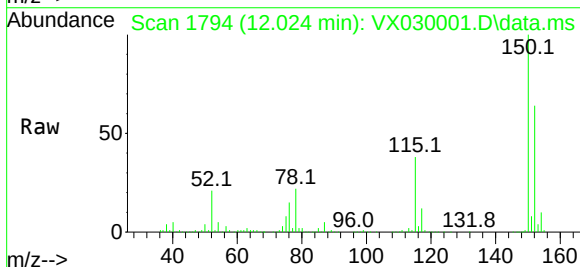
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

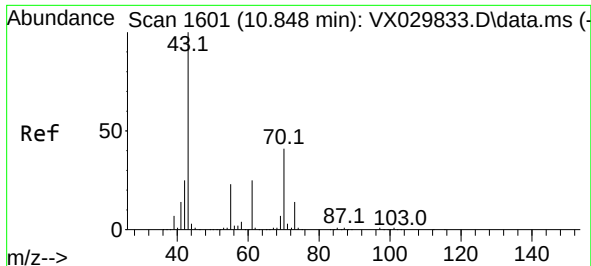
Tgt Ion:117 Resp: 275743
Ion Ratio Lower Upper
117 100
82 52.1 42.7 64.1
119 31.6 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

Tgt Ion:152 Resp: 117352
Ion Ratio Lower Upper
152 100
115 58.8 40.5 121.5
150 157.6 0.0 347.0

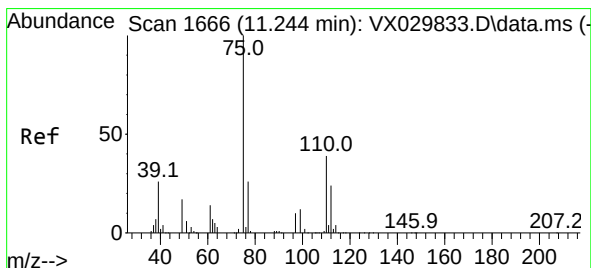
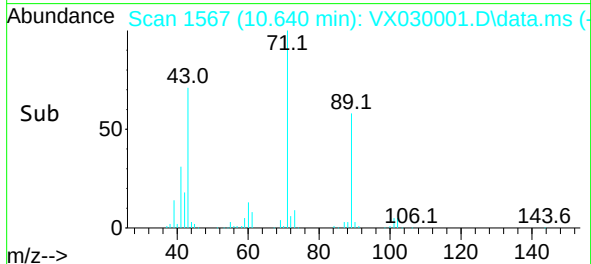
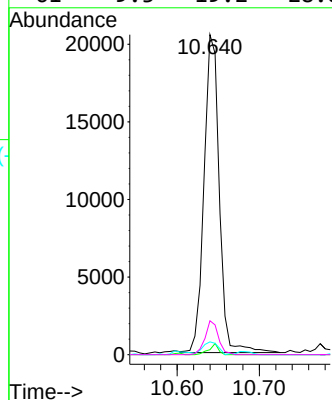
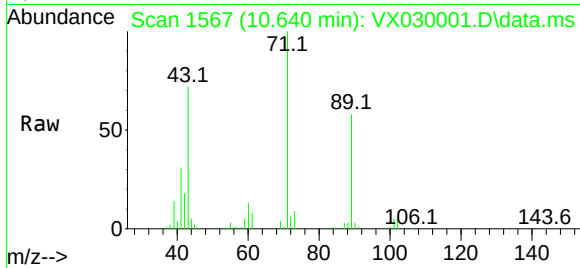




#74
N-amy1 acetate
Concen: 6.284 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.208 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

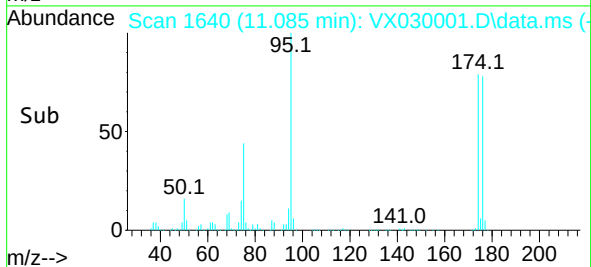
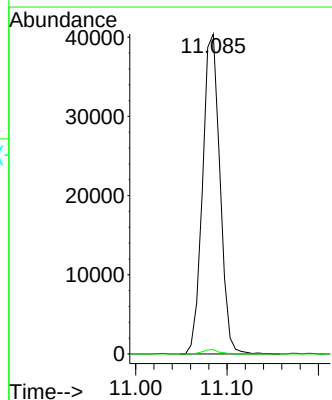
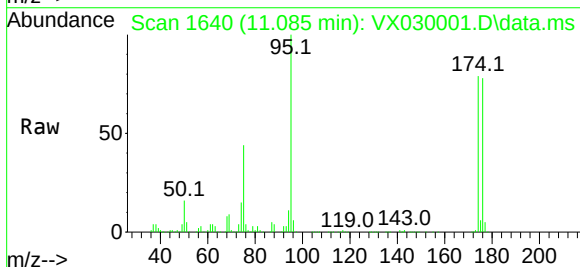
Instrument :
MSVOA_X
ClientSampleId :
PB146125ZHE#06

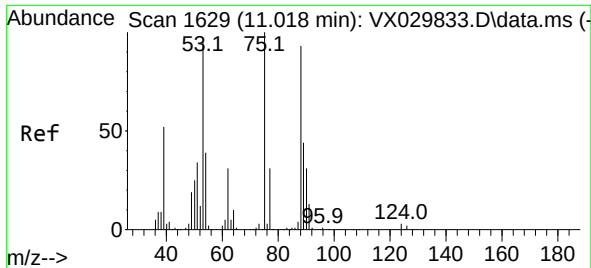
Tgt Ion: 43	Resp: 26419
Ion Ratio	Lower Upper
43 100	
70 2.1	32.3 48.5#
55 4.2	18.4 27.6#
61 9.3	19.2 28.8#



#76
1,2,3-Trichloropropane
Concen: 19.009 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. -0.159 min
Lab File: VX030001.D
Acq: 11 Jul 2022 16:43

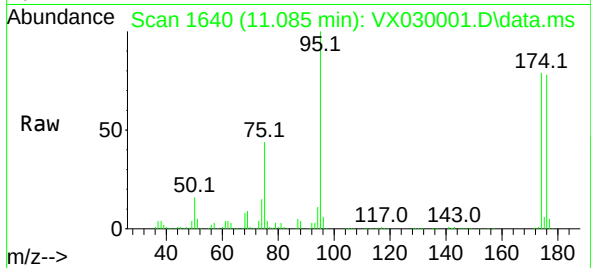
Tgt Ion: 75	Resp: 53401
Ion Ratio	Lower Upper
75 100	
77 1.3	19.8 59.3#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.368 ug/l
 RT: 11.085 min Scan# 1
 Delta R.T. 0.067 min
 Lab File: VX030001.D
 Acq: 11 Jul 2022 16:43

Instrument :
 MSVOA_X
 ClientSampleId :
 PB146125ZHE#06



Tgt Ion: 75 Resp: 53401
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.2 111.4#
 89 0.1 34.8 52.2#

