

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010923\
 Data File : VX033664.D
 Acq On : 09 Jan 2023 15:37
 Operator : JC/MD
 Sample : 01059-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 00:47:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 06:16:21 2023
 Response via : Initial Calibration

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

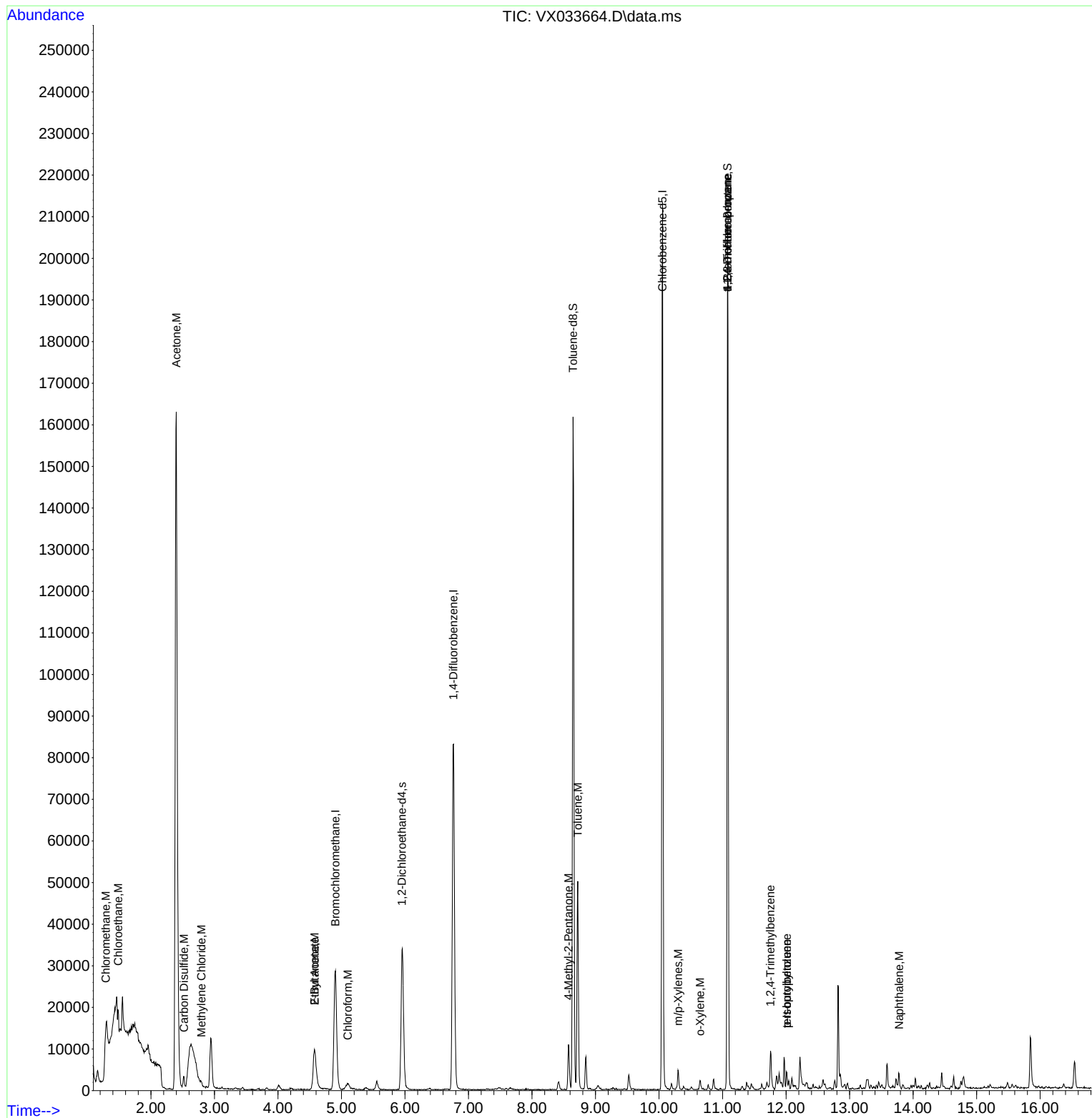
Internal Standards						
1) Bromochloromethane	4.903	128	12678	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	88848	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	97339	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	34100	33.218	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	110.733%#
60) 4-Bromofluorobenzene	11.079	95	52188	29.747	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.167%
63) Toluene-d8	8.647	98	94558	30.354	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.167%
Target Compounds						Qvalue
3) Chloromethane	1.288	50	655	0.461	ug/l #	43
6) Chloroethane	1.483	64	3265	4.343	ug/l #	54
15) Acetone	2.398	58	70850	468.208	ug/l	85
16) Carbon Disulfide	2.520	76	3427	1.216	ug/l	96
18) Methylene Chloride	2.794	84	300	0.221	ug/l #	76
25) Chloroform	5.099	83	1306	0.528	ug/l #	78
30) 2-Butanone	4.574	43	11753	11.719	ug/l #	97
43) Ethyl Acetate	4.574	43	11753	5.719	ug/l	93
58) 4-Methyl-2-Pentanone	8.574	43	7290	3.770	ug/l	98
62) Toluene	8.720	91	32441	5.294	ug/l	99
67) m/p-Xylenes	10.299	106	1289	0.478	ug/l	99
68) o-Xylene	10.646	106	537	0.203	ug/l	98
72) 1,2,3-Trichloropropane	11.079	75	26642	14.227	ug/l	40
77) t-1,4-Dichloro-2-butene	11.079	75	26642	47.555	ug/l #	3
79) tert-butylbenzene	12.012	119	2032	0.348	ug/l	70
80) 1,2,4-Trimethylbenzene	11.756	105	2727	0.484	ug/l	94
82) p-Isopropyltoluene	12.012	119	2032	0.333	ug/l	97
91) Naphthalene	13.780	128	2576	0.399	ug/l #	94

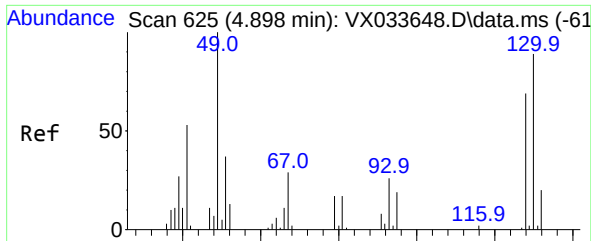
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jan 07 06:16:21 2023
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.903 min Scan# 61

Delta R.T. 0.005 min

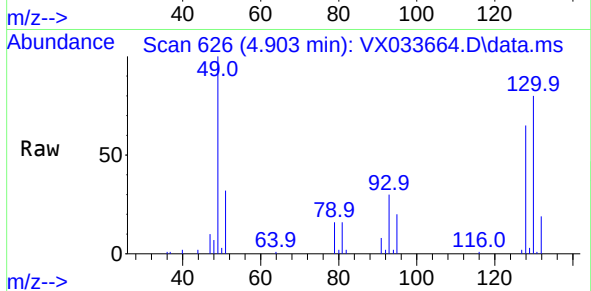
Lab File: VX033664.D

Acq: 09 Jan 2023 15:37

Instrument :

MSVOA_X

ClientSampleId :



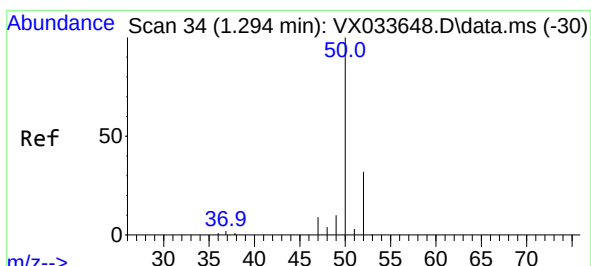
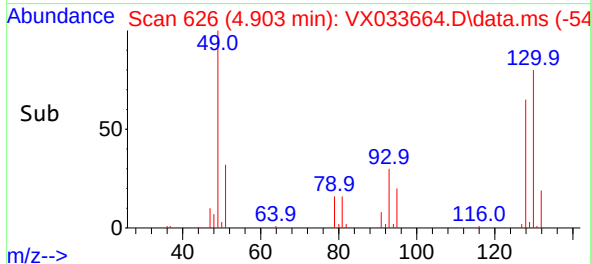
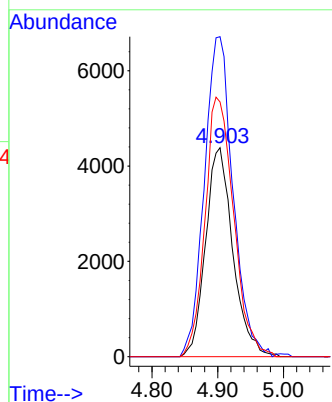
Tgt Ion:128 Resp: 12678

Ion Ratio Lower Upper

128 100

49 160.7 0.0 398.5

130 130.4 0.0 329.0



#3

Chloromethane

Concen: 0.461 ug/l

RT: 1.288 min Scan# 33

Delta R.T. -0.006 min

Lab File: VX033664.D

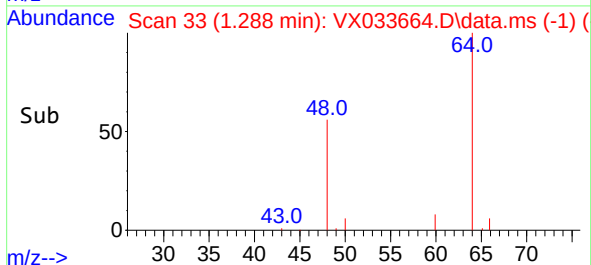
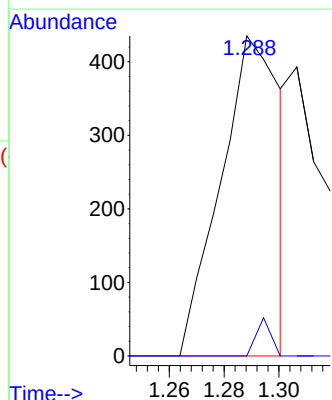
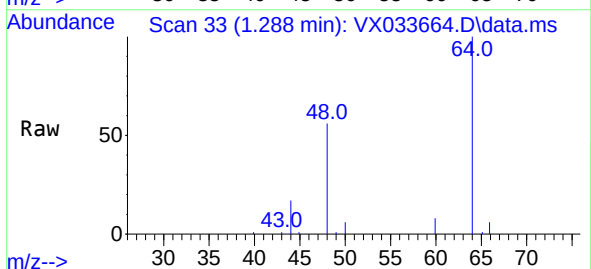
Acq: 09 Jan 2023 15:37

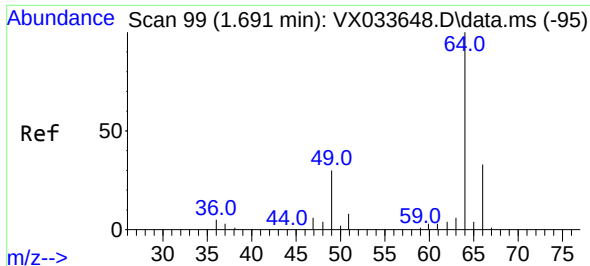
Tgt Ion: 50 Resp: 655

Ion Ratio Lower Upper

50 100

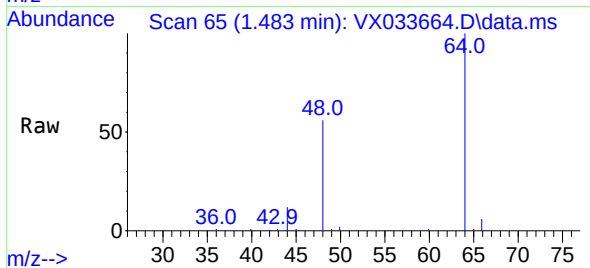
52 0.0 25.5 38.3#



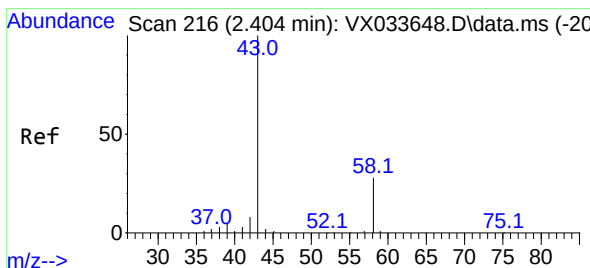
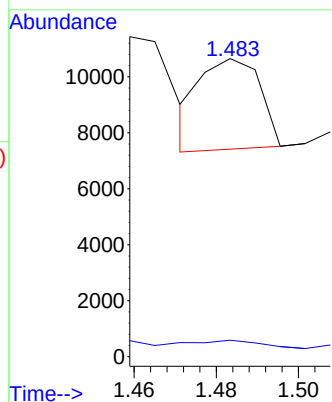
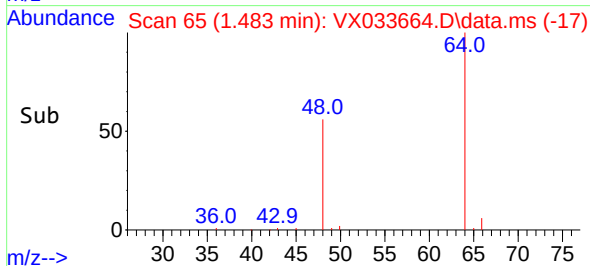


#6
Chloroethane
Concen: 4.343 ug/l
RT: 1.483 min Scan# 61
Delta R.T. -0.207 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

Instrument :
MSVOA_X
ClientSampleId :

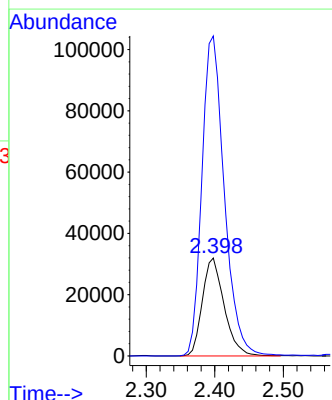
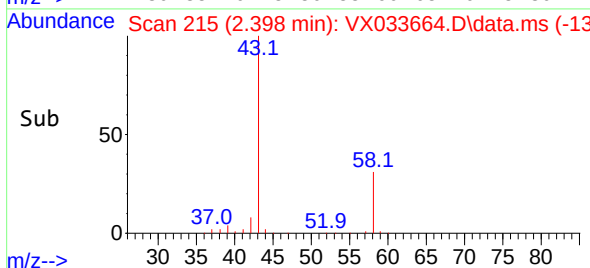
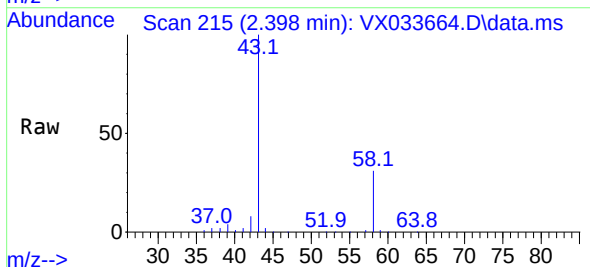


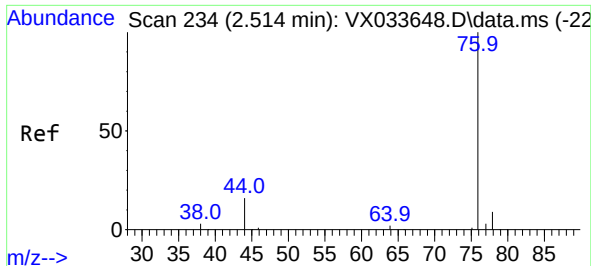
Tgt Ion: 64 Resp: 3265
Ion Ratio Lower Upper
64 100
66 7.2 26.6 40.0#



#15
Acetone
Concen: 468.208 ug/l
RT: 2.398 min Scan# 215
Delta R.T. -0.006 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

Tgt Ion: 58 Resp: 70850
Ion Ratio Lower Upper
58 100
43 326.5 288.3 432.5

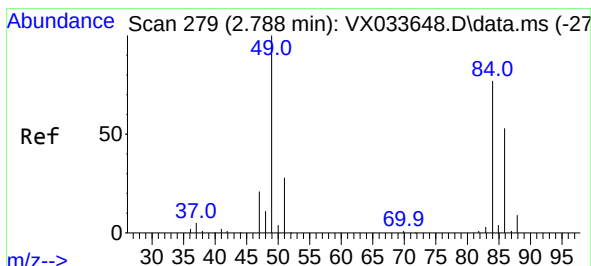
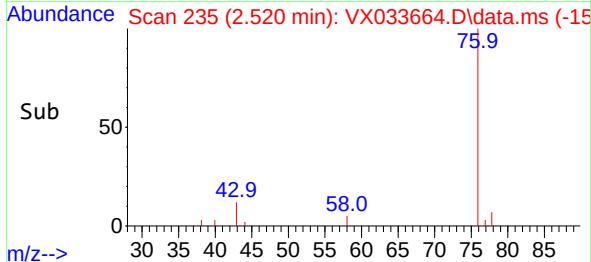
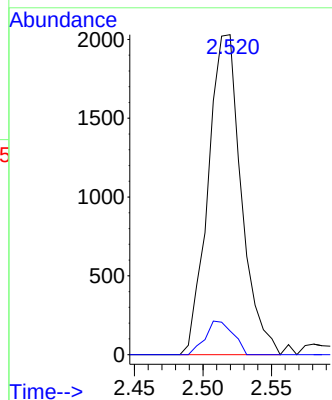
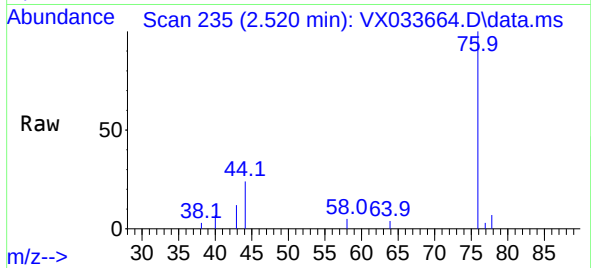




#16
Carbon Disulfide
Concen: 1.216 ug/l
RT: 2.520 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

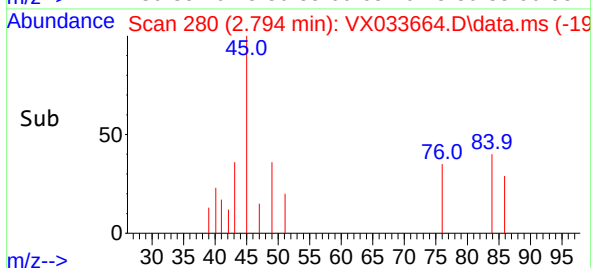
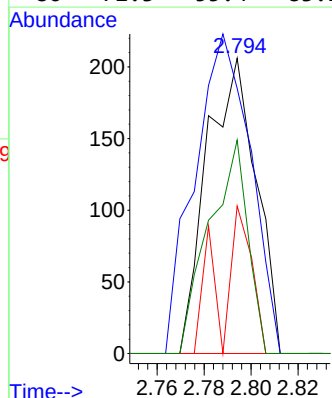
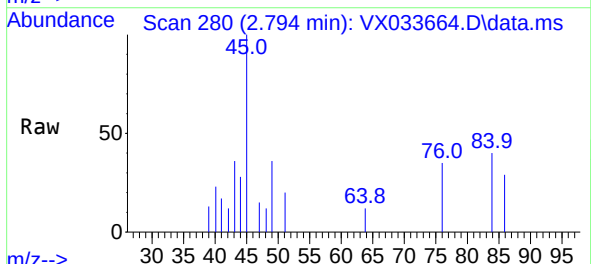
Instrument :
MSVOA_X
ClientSampleId :

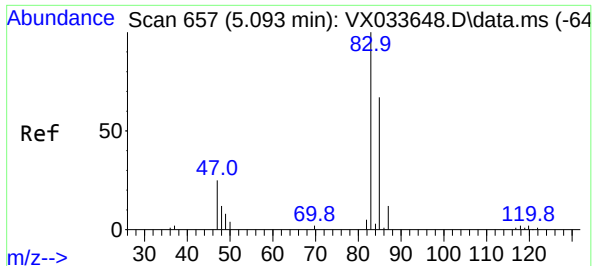
Tgt Ion: 76 Resp: 3427
Ion Ratio Lower Upper
76 100
78 7.4 7.0 10.4



#18
Methylene Chloride
Concen: 0.221 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

Tgt Ion: 84 Resp: 300
Ion Ratio Lower Upper
84 100
49 89.8 104.1 156.1#
51 50.0 29.2 43.8#
86 72.3 55.4 83.2





#25

Chloroform

Concen: 0.528 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX033664.D

Acq: 09 Jan 2023 15:37

Instrument :

MSVOA_X

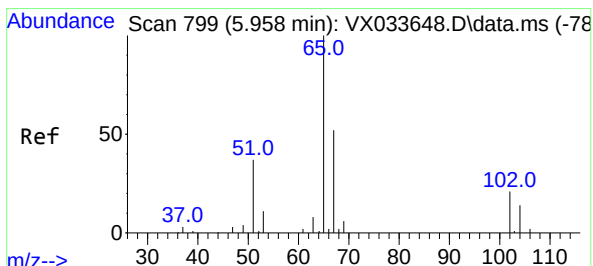
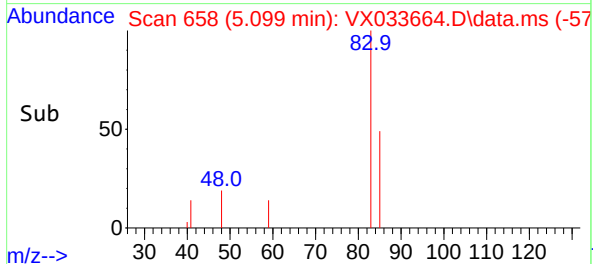
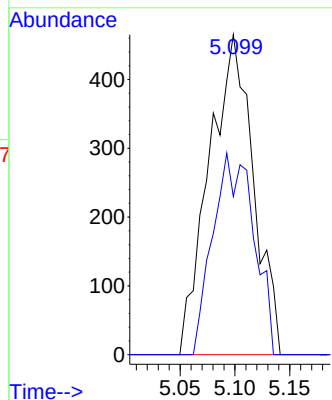
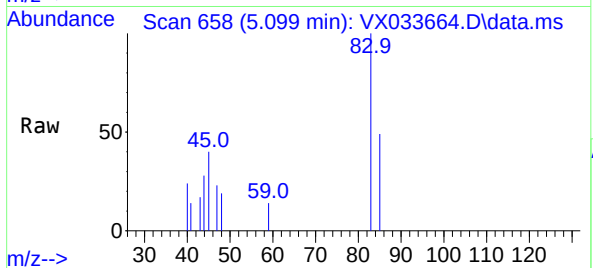
ClientSampleId :

Tgt Ion: 83 Resp: 1306

Ion Ratio Lower Upper

83 100

85 49.5 53.9 80.9#



#27

1,2-Dichloroethane-d4

Concen: 33.218 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX033664.D

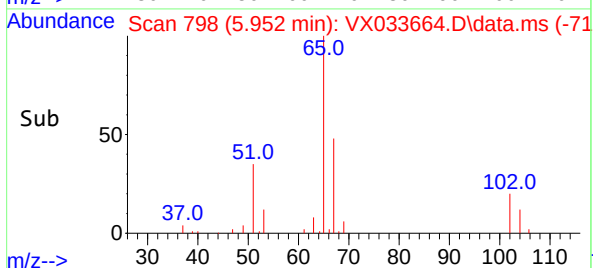
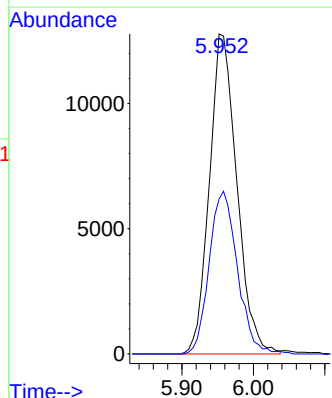
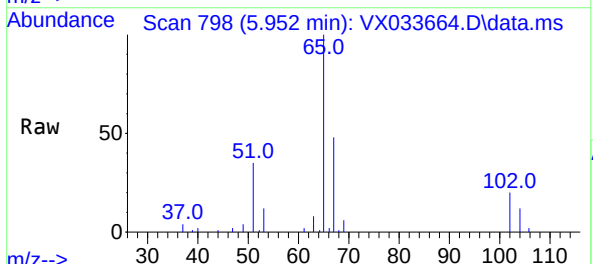
Acq: 09 Jan 2023 15:37

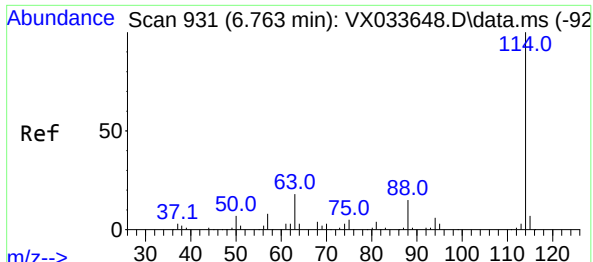
Tgt Ion: 65 Resp: 34100

Ion Ratio Lower Upper

65 100

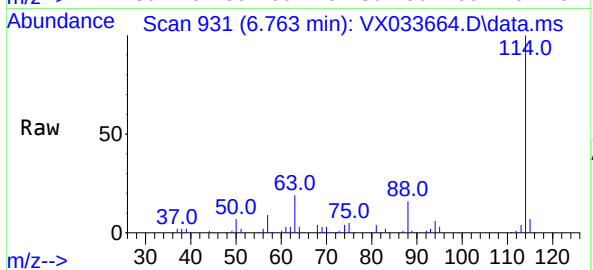
67 51.9 40.4 60.6





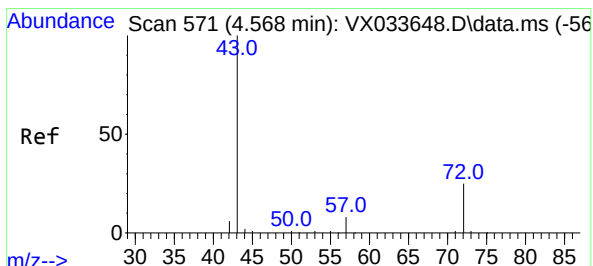
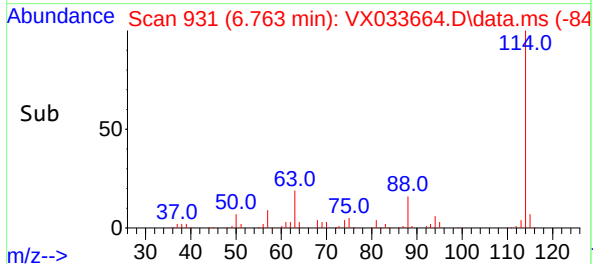
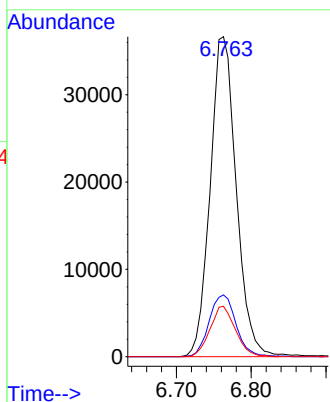
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:114 Resp: 88848

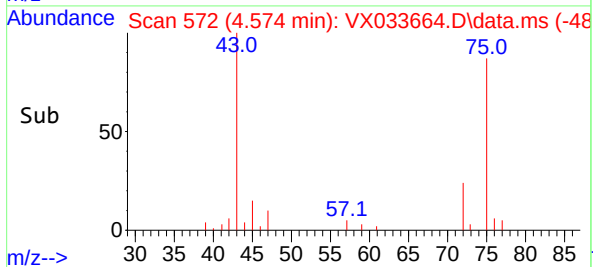
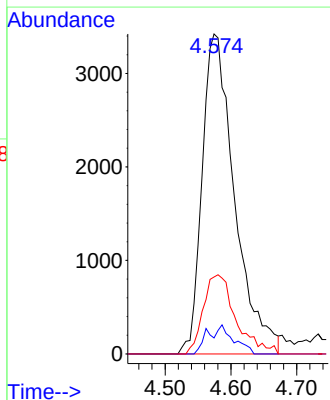
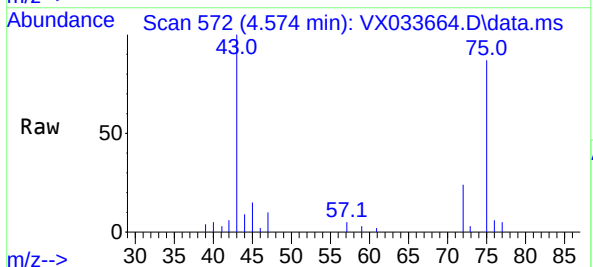
Ion	Ratio	Lower	Upper
114	100		
63	19.9	15.5	23.3
88	15.4	12.4	18.6

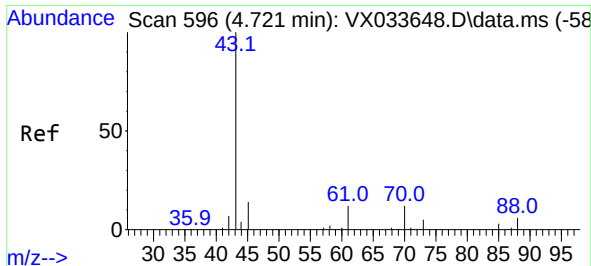


#30
2-Butanone
Concen: 11.719 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.006 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

Tgt Ion: 43 Resp: 11753

Ion	Ratio	Lower	Upper
43	100		
57	2.0	3.4	5.2#
72	23.7	19.8	29.6

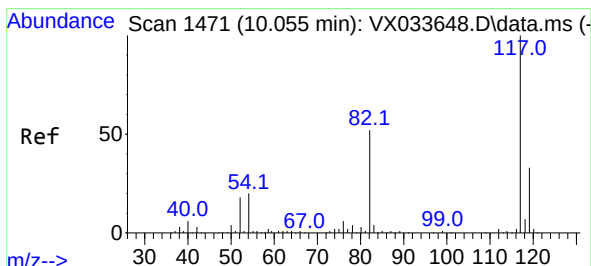
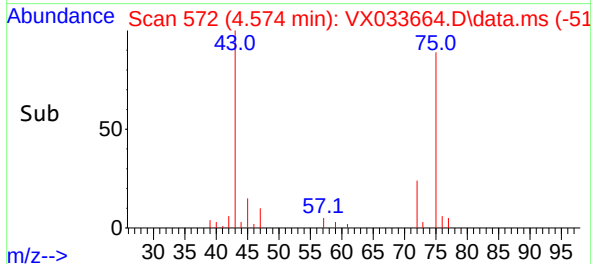
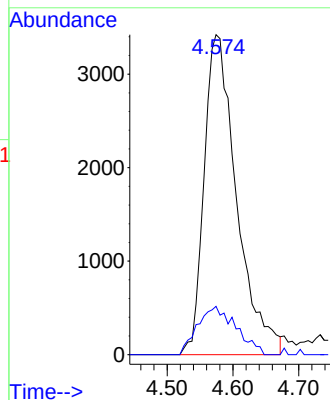
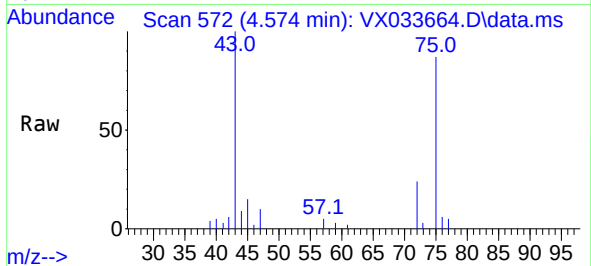




#43
Ethyl Acetate
Concen: 5.719 ug/l
RT: 4.574 min Scan# 51
Delta R.T. -0.146 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

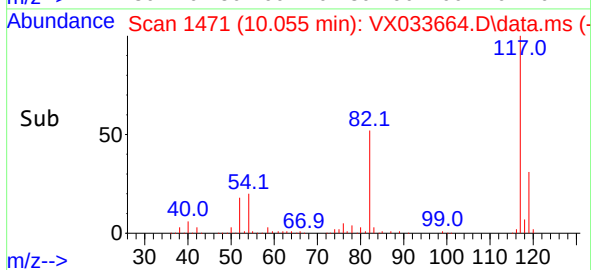
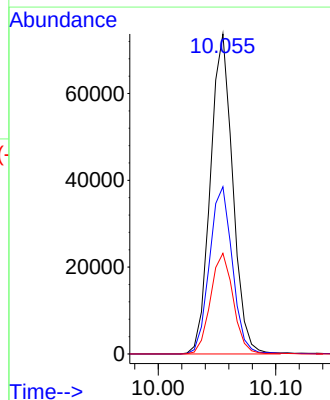
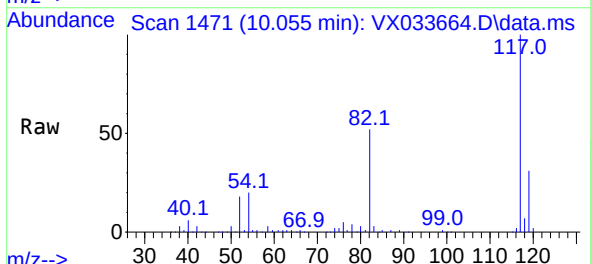
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MSVOA_X
ClientSampleId :

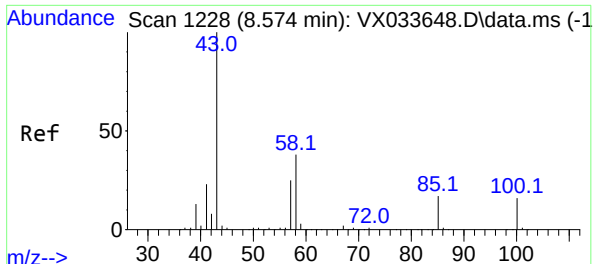
Tgt Ion: 43 Resp: 11753
Ion Ratio Lower Upper
43 100
45 16.8 11.2 16.8



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

Tgt Ion: 117 Resp: 97339
Ion Ratio Lower Upper
117 100
82 53.4 41.9 62.9
119 32.0 25.6 38.4

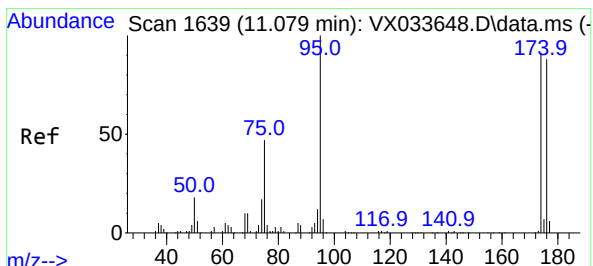
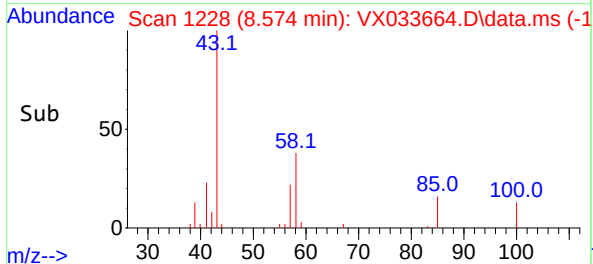
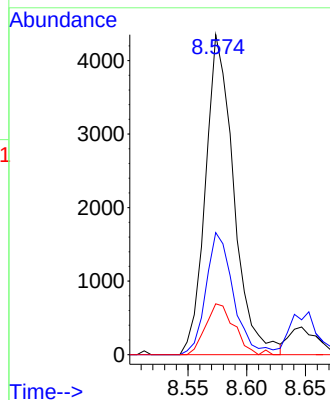
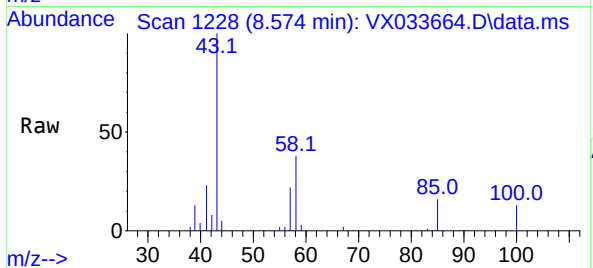




#58
4-Methyl-2-Pentanone
Concen: 3.770 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

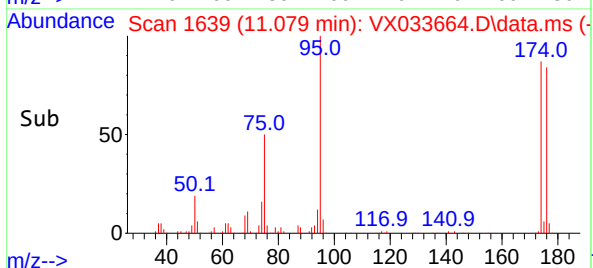
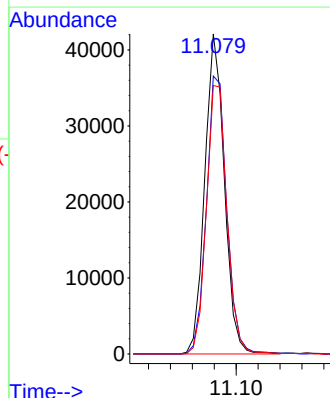
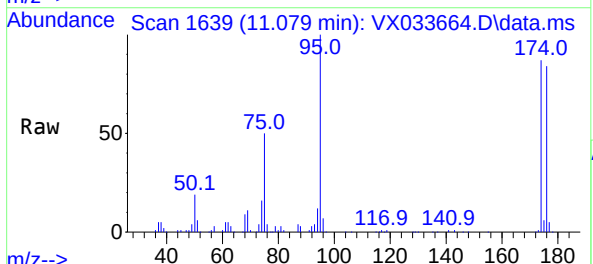
Instrument :
MSVOA_X
ClientSampleId :

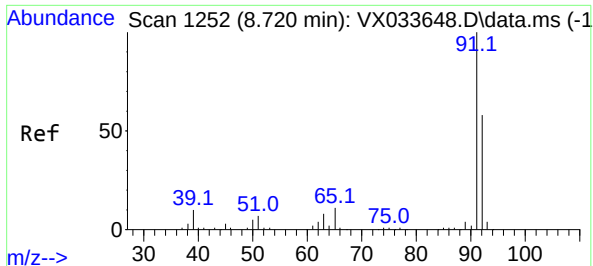
Tgt Ion:	43	Resp:	7290
Ion	Ratio	Lower	Upper
43	100		
58	37.0	30.2	45.4
85	15.9	13.8	20.8



#60
4-Bromofluorobenzene
Concen: 29.747 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

Tgt Ion:	95	Resp:	52188
Ion	Ratio	Lower	Upper
95	100		
174	90.3	73.7	110.5
176	87.9	71.0	106.4





#62

Toluene

Concen: 5.294 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX033664.D

Acq: 09 Jan 2023 15:37

Instrument :

MSVOA_X

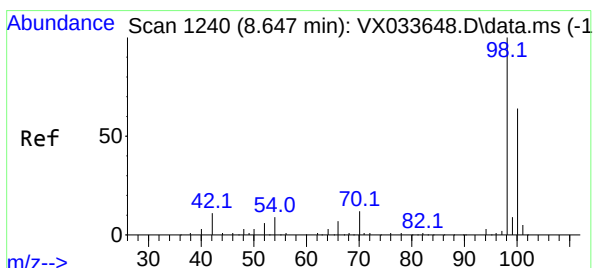
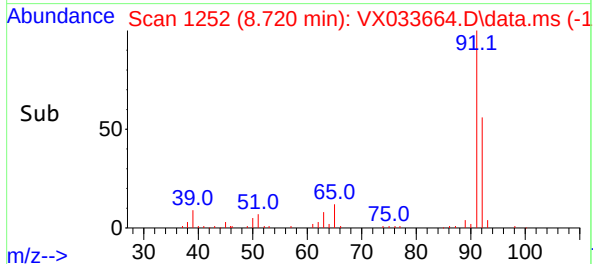
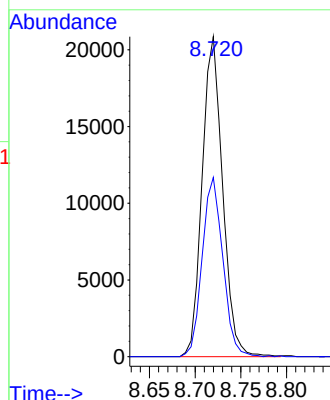
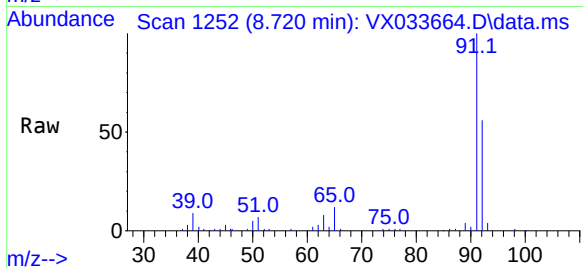
ClientSampleId :

Tgt Ion: 91 Resp: 32441

Ion Ratio Lower Upper

91 100

92 56.5 45.8 68.8



#63

Toluene-d8

Concen: 30.354 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX033664.D

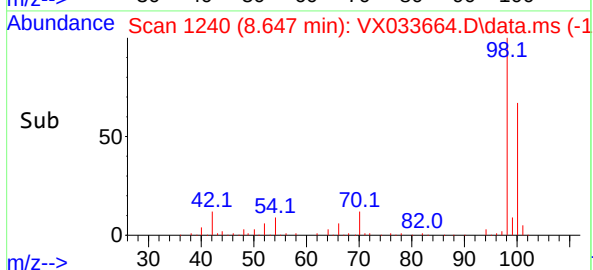
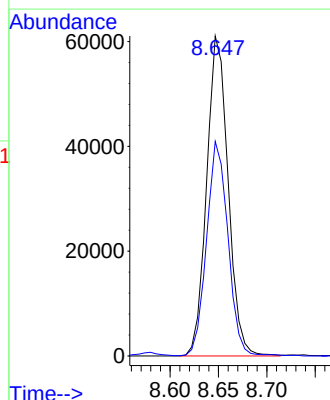
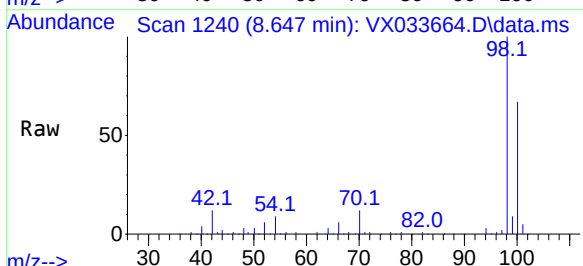
Acq: 09 Jan 2023 15:37

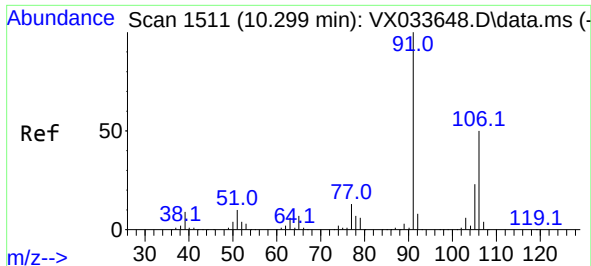
Tgt Ion: 98 Resp: 94558

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7

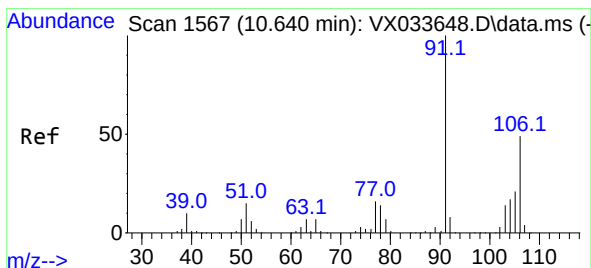
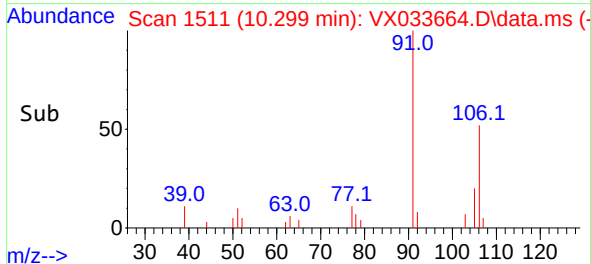
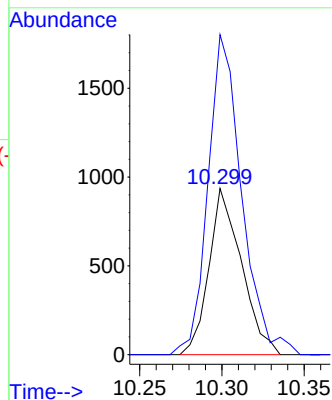
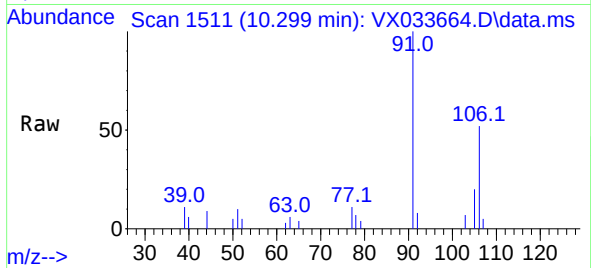




#67
m/p-Xylenes
Concen: 0.478 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

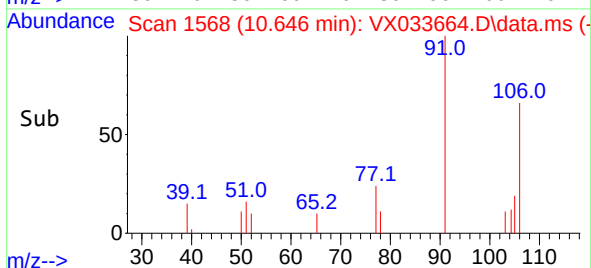
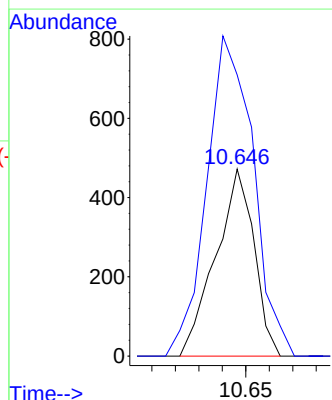
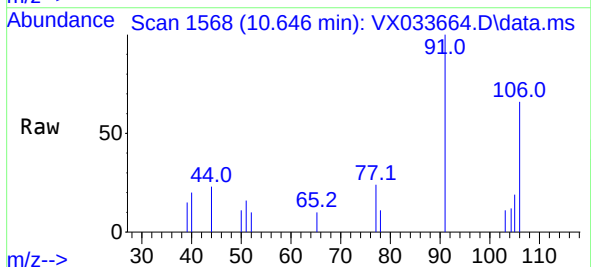
Instrument :
MSVOA_X
ClientSampleId :

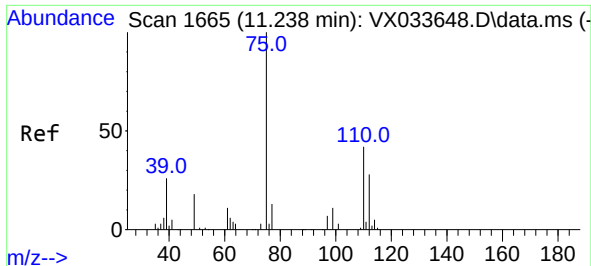
Tgt Ion:106 Resp: 1289
Ion Ratio Lower Upper
106 100
91 195.2 157.3 235.9



#68
o-Xylene
Concen: 0.203 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

Tgt Ion:106 Resp: 537
Ion Ratio Lower Upper
106 100
91 206.7 104.6 313.8

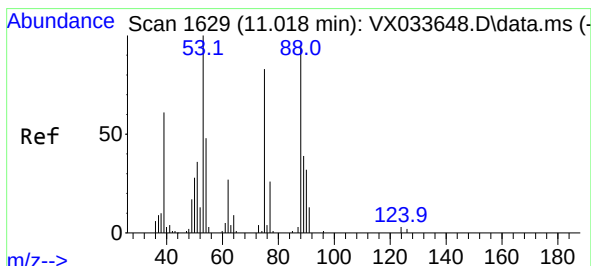
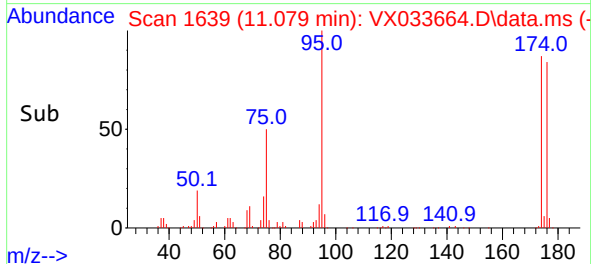
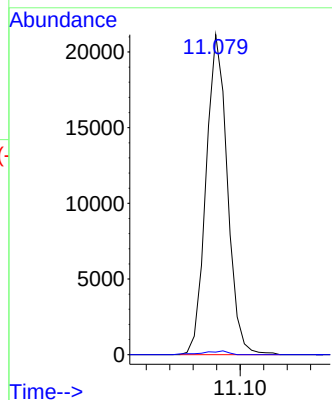
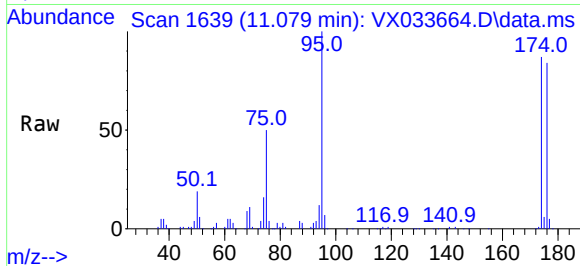




#72
1,2,3-Trichloropropane
Concen: 14.227 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

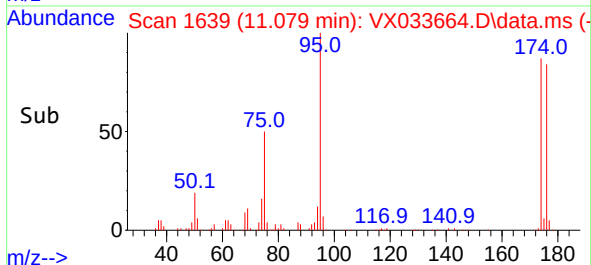
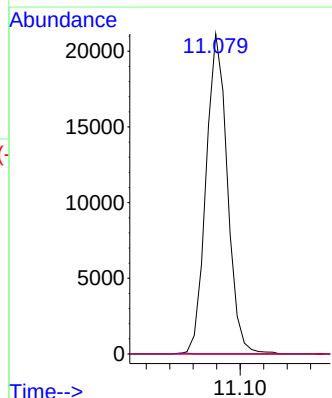
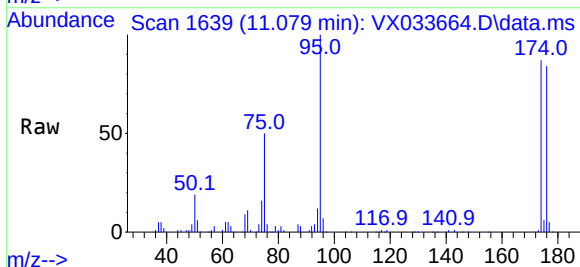
Instrument :
MSVOA_X
ClientSampleId :

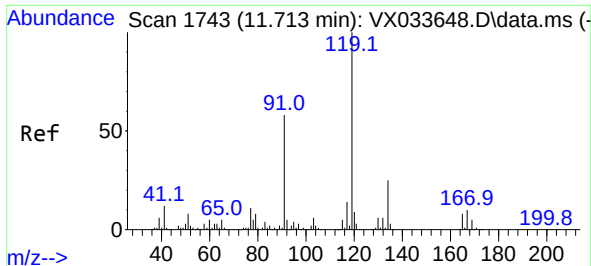
Tgt Ion: 75 Resp: 26642
Ion Ratio Lower Upper
75 100
77 1.2 0.0 74.6



#77
t-1,4-Dichloro-2-butene
Concen: 47.555 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

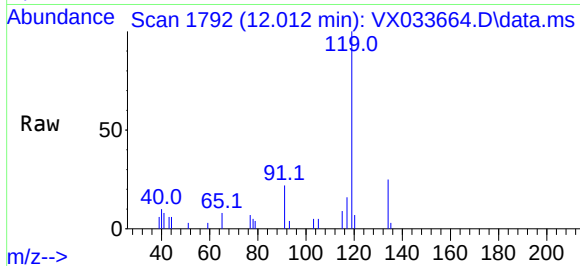
Tgt Ion: 75 Resp: 26642
Ion Ratio Lower Upper
75 100
53 0.0 60.2 180.6#
89 0.0 23.2 69.6#



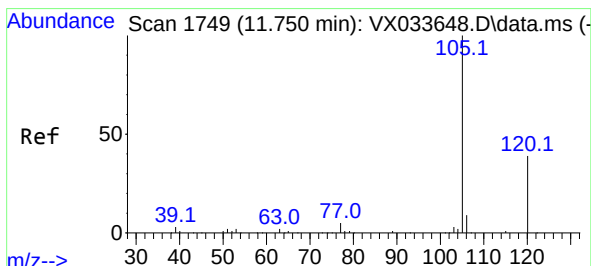
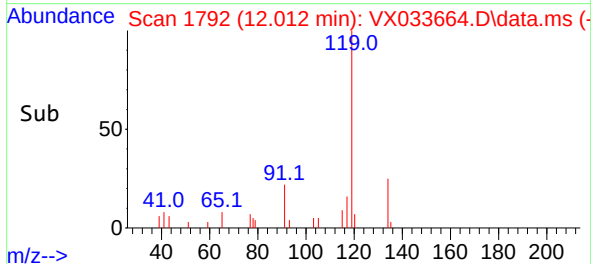
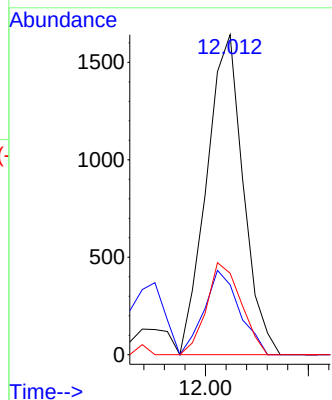


#79
tert-butylbenzene
Concen: 0.348 ug/l
RT: 12.012 min Scan# 11
Delta R.T. 0.299 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

Instrument :
MSVOA_X
ClientSampleId :

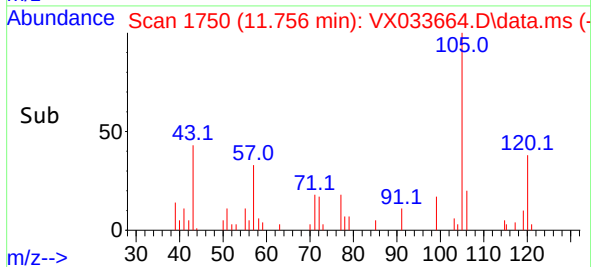
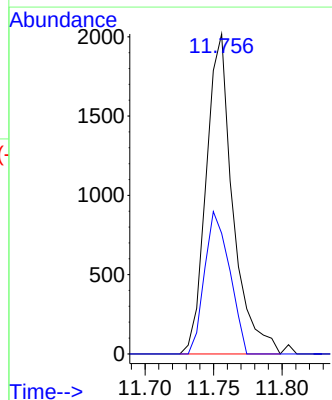
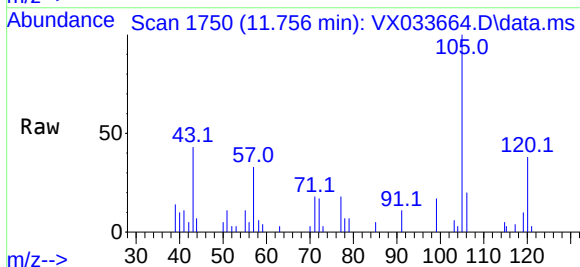


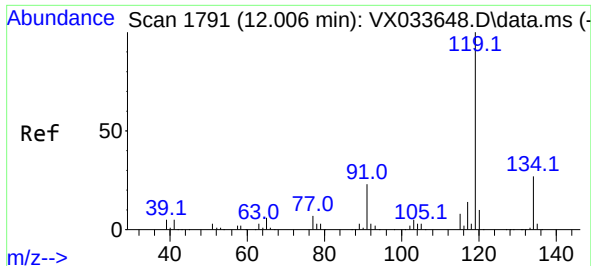
Tgt Ion:119 Resp: 2032
Ion Ratio Lower Upper
119 100
91 25.4 0.0 111.0
134 27.1 0.0 49.2



#80
1,2,4-Trimethylbenzene
Concen: 0.484 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX033664.D
Acq: 09 Jan 2023 15:37

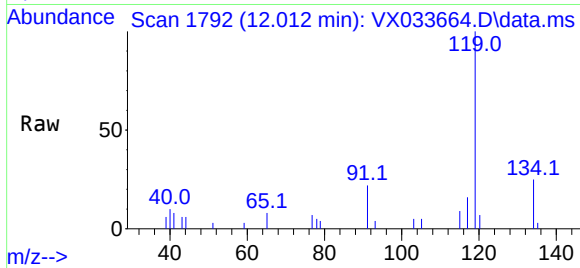
Tgt Ion:105 Resp: 2727
Ion Ratio Lower Upper
105 100
120 41.6 0.0 91.2





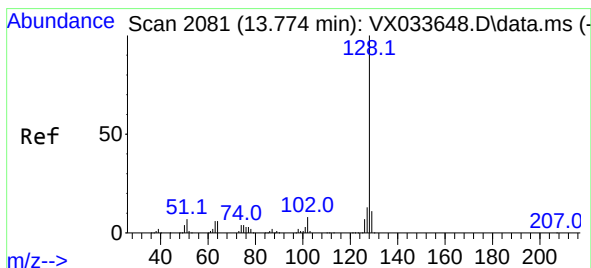
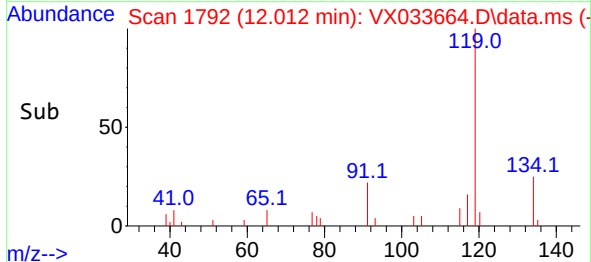
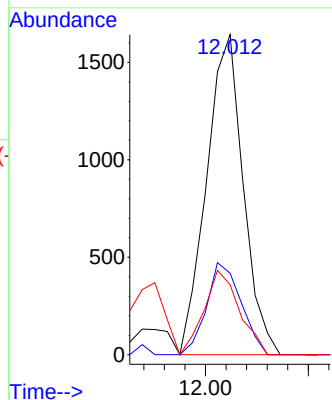
#82
 p-Isopropyltoluene
 Concen: 0.333 ug/l
 RT: 12.012 min Scan# 119
 Delta R.T. 0.006 min
 Lab File: VX033664.D
 Acq: 09 Jan 2023 15:37

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:119 Resp: 2032

Ion	Ratio	Lower	Upper
119	100		
134	27.1	0.0	54.4
91	25.4	0.0	45.2



#91
 Naphthalene
 Concen: 0.399 ug/l
 RT: 13.780 min Scan# 2082
 Delta R.T. 0.006 min
 Lab File: VX033664.D
 Acq: 09 Jan 2023 15:37

Tgt Ion:128 Resp: 2576

Ion	Ratio	Lower	Upper
128	100		
127	9.6	10.4	15.6#
129	9.6	8.8	13.2

