

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112122\
 Data File : VX032955.D
 Acq On : 21 Nov 2022 16:19
 Operator : JC/MD
 Sample : N5729-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE115D1-20221117

Quant Time: Nov 22 05:12:31 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 08:28:06 2022
 Response via : Initial Calibration

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

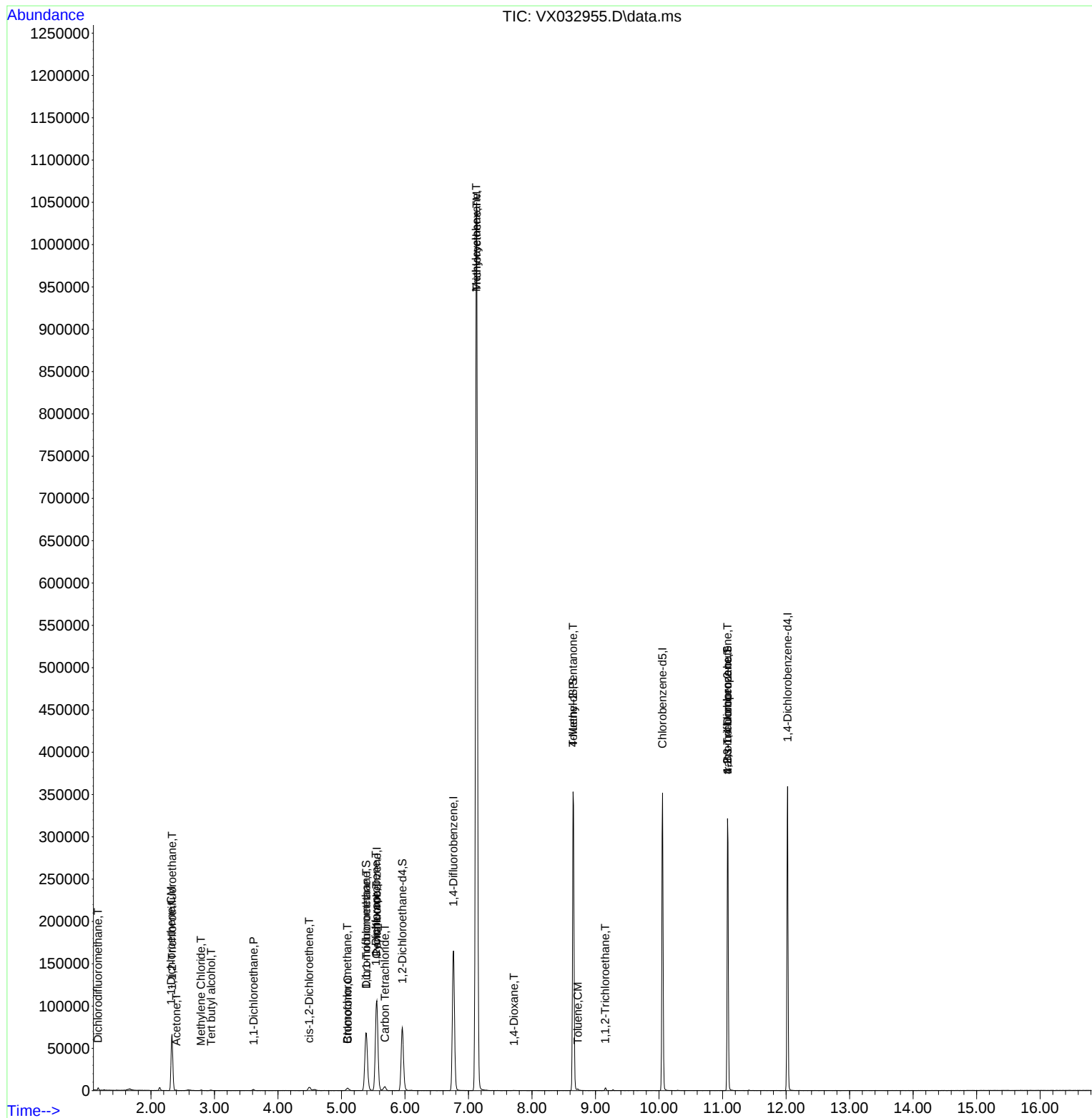
Internal Standards						
1) Pentafluorobenzene	5.556	168	102034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	169640	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	154276	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	72413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	73301	51.703	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 103.400%			
35) Dibromofluoromethane	5.385	113	58908	48.682	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.360%			
50) Toluene-d8	8.647	98	214292	50.929	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.860%			
62) 4-Bromofluorobenzene	11.079	95	81518	49.597	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	1455	1.236	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.331	101	19659	17.947	ug/l	99
11) Tert butyl alcohol	2.947	59	330	1.599	ug/l #	72
12) 1,1-Dichloroethene	2.319	96	6971	6.813	ug/l	97
16) Acetone	2.398	43	675	1.310	ug/l	99
20) Methylene Chloride	2.788	84	475	0.402	ug/l #	80
24) 1,1-Dichloroethane	3.617	63	1757	0.866	ug/l #	82
27) cis-1,2-Dichloroethene	4.489	96	2962	2.301	ug/l	81
28) Bromochloromethane	5.093	49	230	0.318	ug/l #	9
30) Chloroform	5.099	83	3673	1.649	ug/l	89
31) Cyclohexane	5.550	56	2348	1.366	ug/l #	44
32) 1,1,1-Trichloroethane	5.391	97	1020	0.510	ug/l #	47
36) 1,1-Dichloropropene	5.544	75	8202	4.867	ug/l #	49
38) Carbon Tetrachloride	5.684	117	4077	2.181	ug/l	90
39) Methylcyclohexane	7.123	83	4666	2.340	ug/l #	1
44) Trichloroethene	7.129	130	394295	293.734	ug/l	100
49) 1,4-Dioxane	7.714	88	206	7.772	ug/l #	76
51) 4-Methyl-2-Pentanone	8.647	43	889	0.524	ug/l #	1
52) Toluene	8.720	92	657	0.211	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	964	0.736	ug/l	89
76) 1,2,3-Trichloropropane	11.079	75	44723	27.761	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	44723	88.336	ug/l #	6

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

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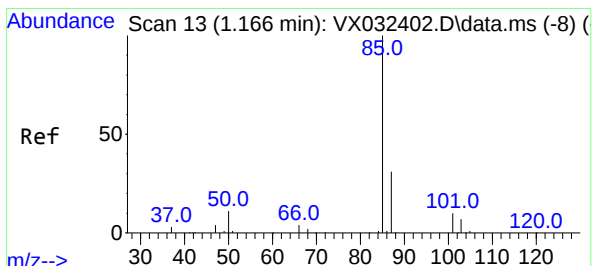
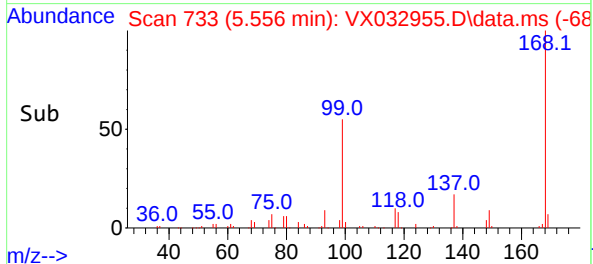
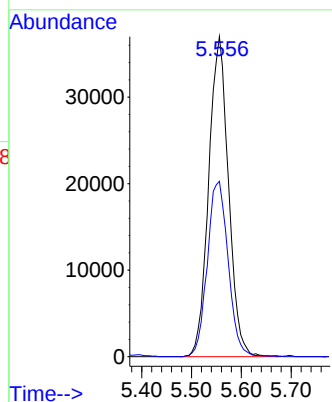
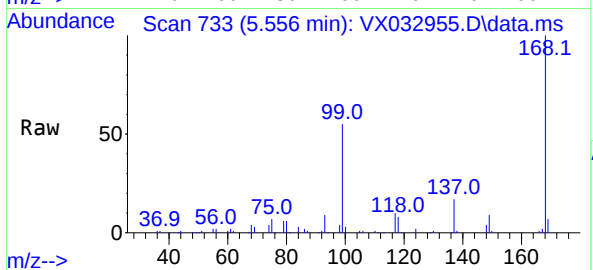




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

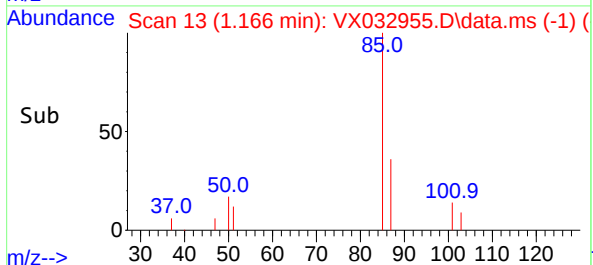
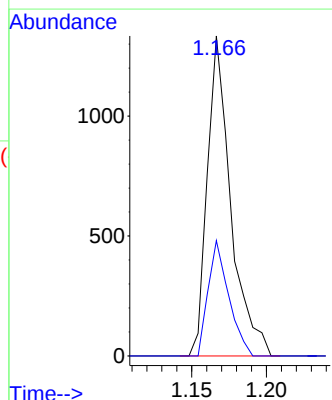
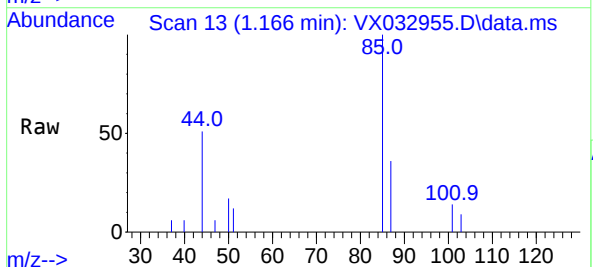
Instrument :
MSVOA_X
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RE115D1-20221117

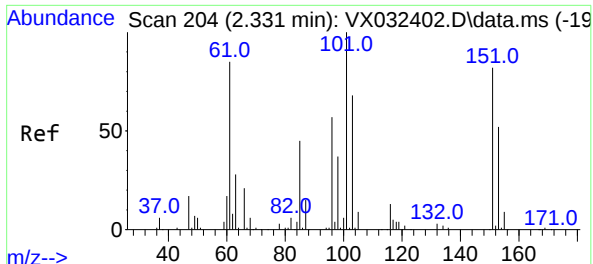
Tgt Ion:168 Resp: 102034
Ion Ratio Lower Upper
168 100
99 54.8 46.1 69.1



#2
Dichlorodifluoromethane
Concen: 1.236 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion: 85 Resp: 1455
Ion Ratio Lower Upper
85 100
87 36.1 15.6 46.7

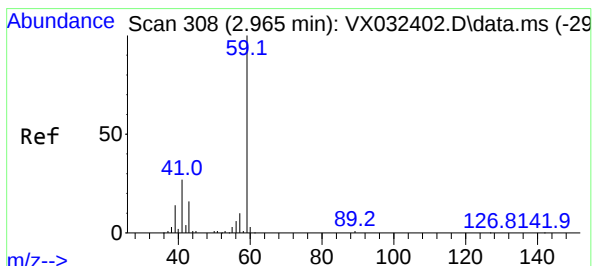
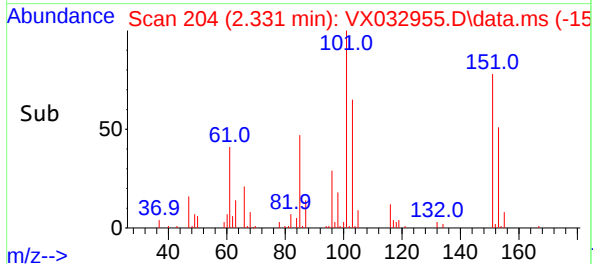
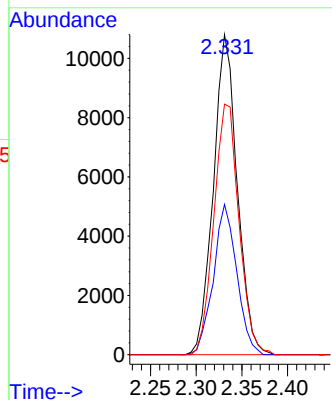
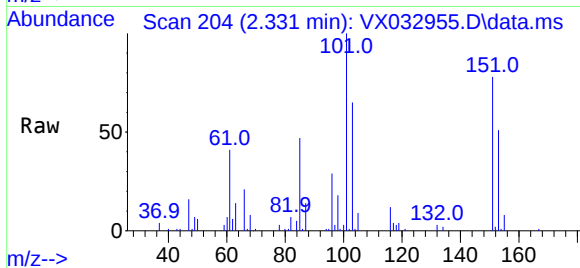




#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.947 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

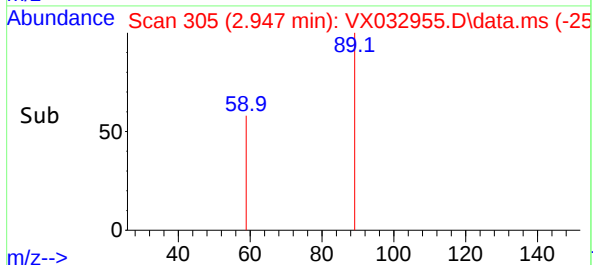
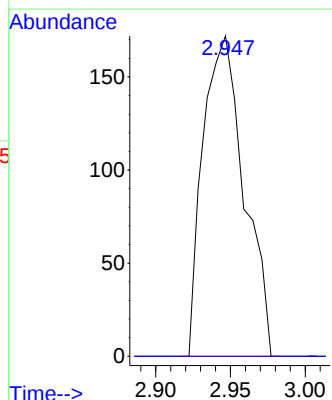
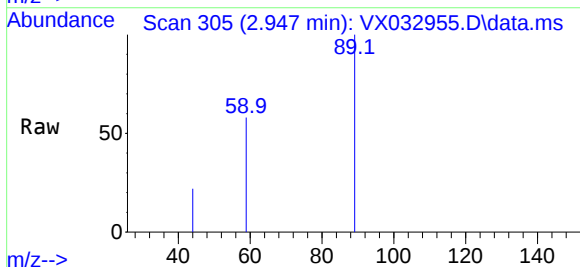
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20221117

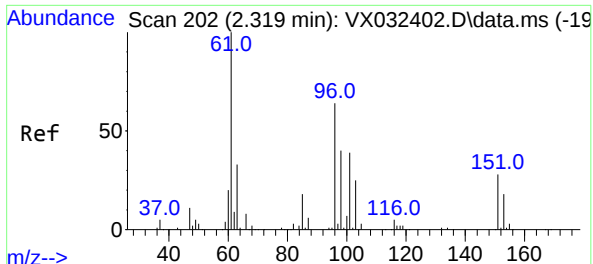
Tgt Ion:101 Resp: 19659
Ion Ratio Lower Upper
101 100
85 46.0 37.0 55.4
151 82.2 64.4 96.6



#11
Tert butyl alcohol
Concen: 1.599 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.018 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion: 59 Resp: 330
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

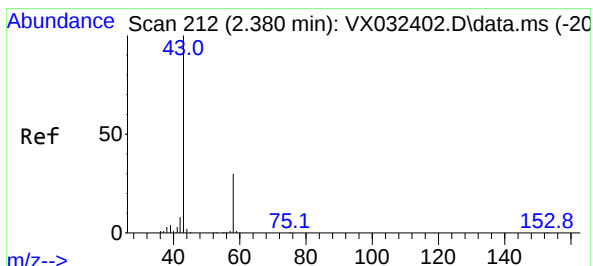
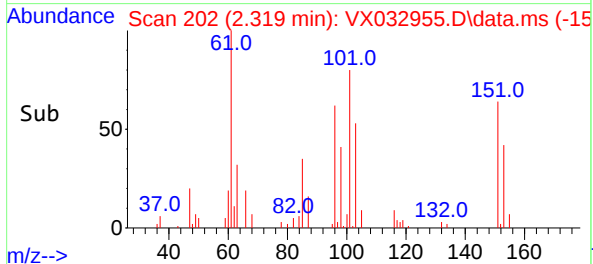
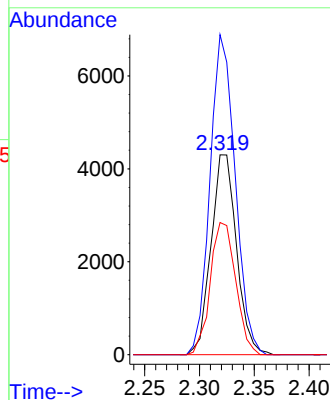
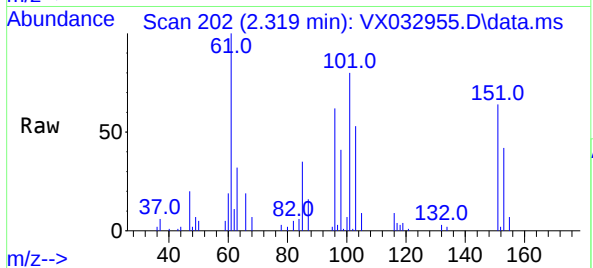




#12
1,1-Dichloroethene
Concen: 6.813 ug/l
RT: 2.319 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

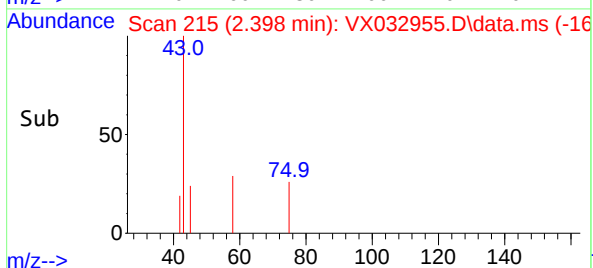
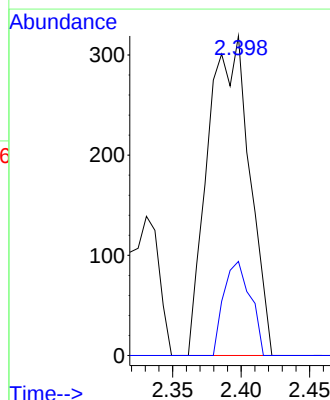
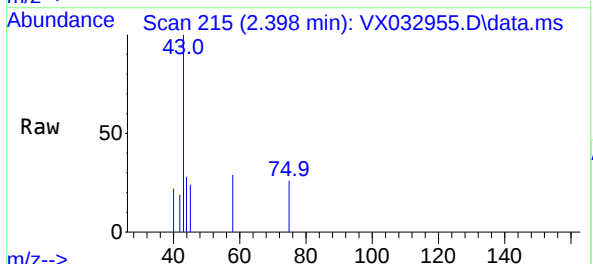
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20221117

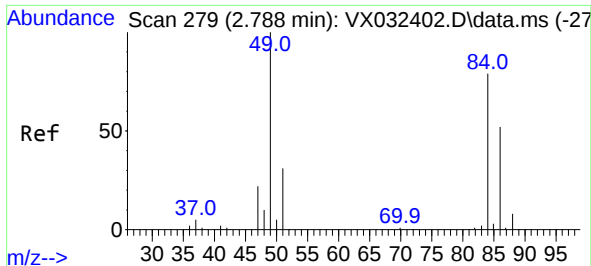
Tgt Ion: 96 Resp: 6971
Ion Ratio Lower Upper
96 100
61 160.1 125.1 187.7
98 66.1 50.6 76.0



#16
Acetone
Concen: 1.310 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.018 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion: 43 Resp: 675
Ion Ratio Lower Upper
43 100
58 29.5 23.8 35.8

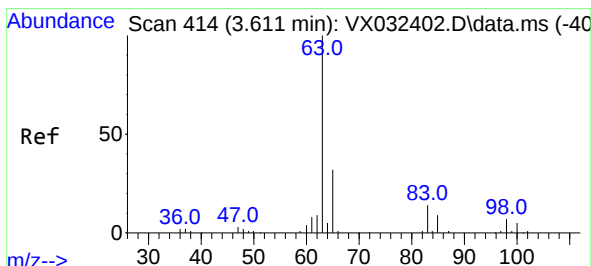
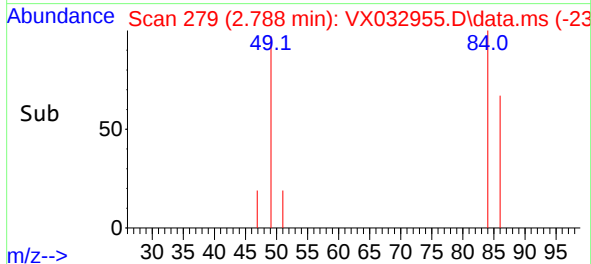
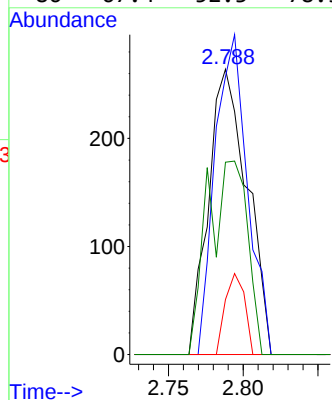
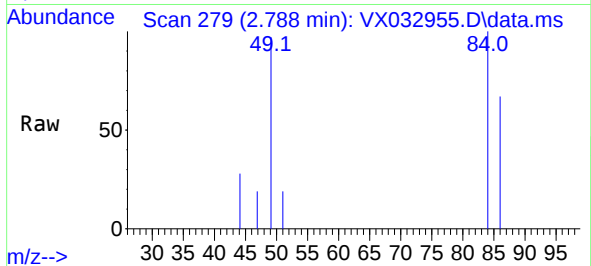




#20
Methylene Chloride
Concen: 0.402 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

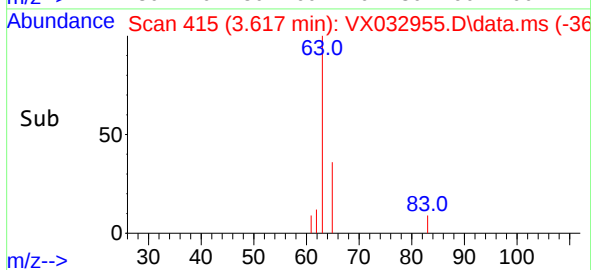
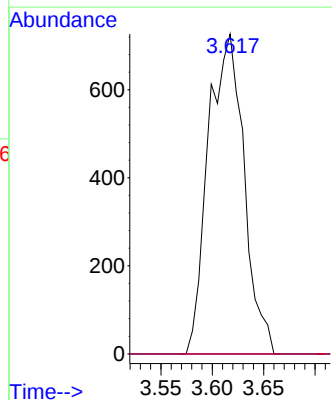
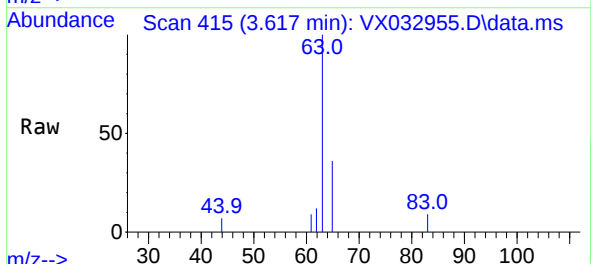
Instrument :
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ClientSampleId :
RE115D1-20221117

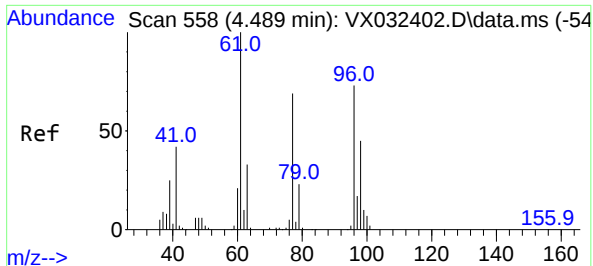
Tgt Ion:	84	Resp:	475
Ion	Ratio	Lower	Upper
84	100		
49	97.3	101.0	151.6#
51	19.3	31.1	46.7#
86	67.4	52.3	78.5



#24
1,1-Dichloroethane
Concen: 0.866 ug/l
RT: 3.617 min Scan# 415
Delta R.T. 0.006 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion:	63	Resp:	1757
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.4#
100	0.0	2.3	6.8#

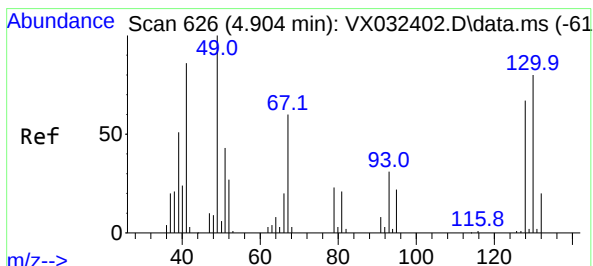
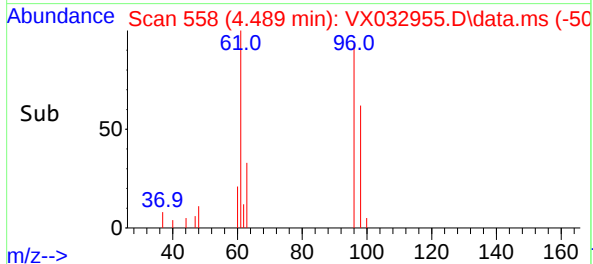
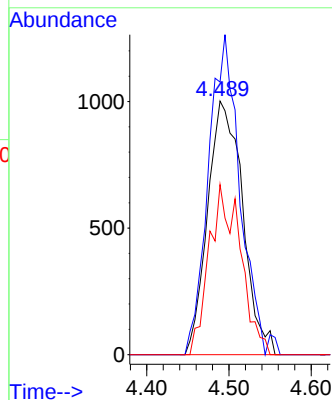
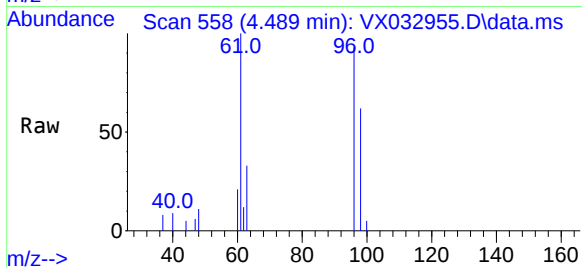




#27
cis-1,2-Dichloroethene
Concen: 2.301 ug/l
RT: 4.489 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

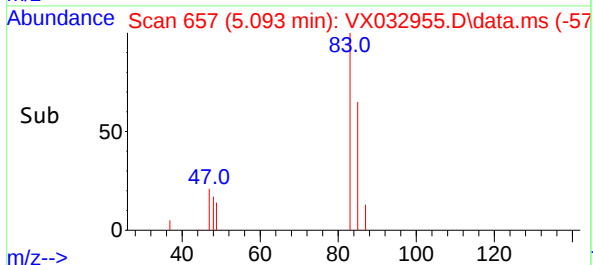
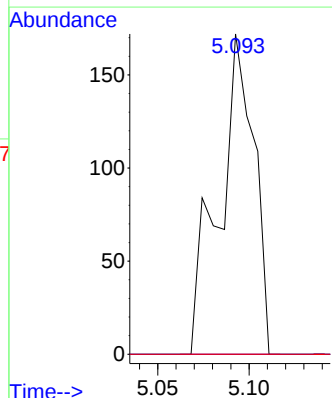
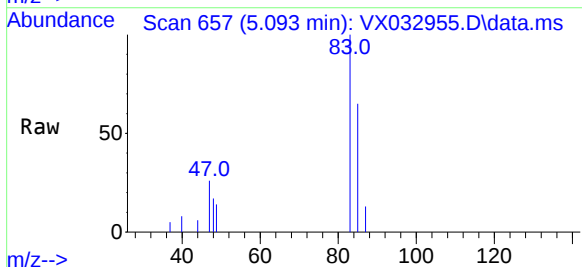
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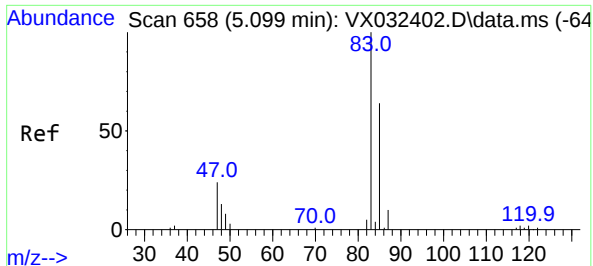
Tgt Ion: 96	Resp: 2962		
Ion	Ratio	Lower	Upper
96	100		
61	112.8	0.0	286.0
98	60.3	0.0	129.6



#28
Bromochloromethane
Concen: 0.318 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.189 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion: 49	Resp: 230		
Ion Ratio	Lower	Upper	
49 100			
129 0.0	0.0	3.8	
130 0.0	67.5	101.3#	





#30

Chloroform

Concen: 1.649 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX032955.D

Acq: 21 Nov 2022 16:19

Instrument :

MSVOA_X

ClientSampleId :

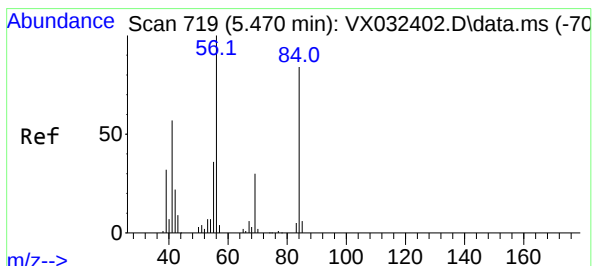
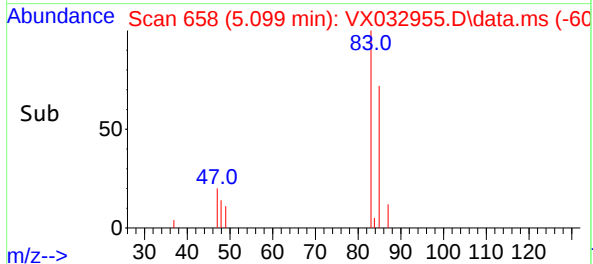
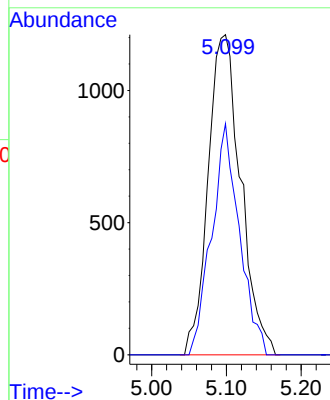
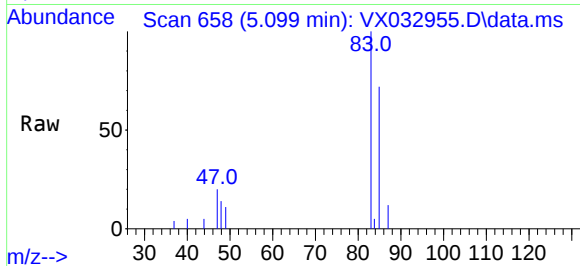
RE115D1-20221117

Tgt Ion: 83 Resp: 3673

Ion Ratio Lower Upper

83 100

85 72.2 51.1 76.7



#31

Cyclohexane

Concen: 1.366 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX032955.D

Acq: 21 Nov 2022 16:19

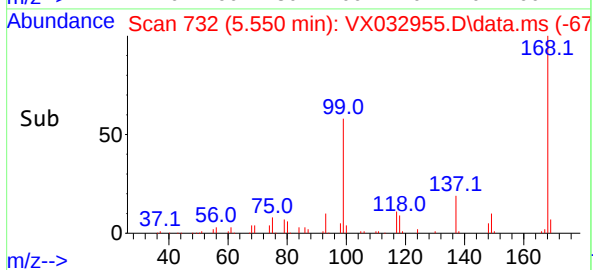
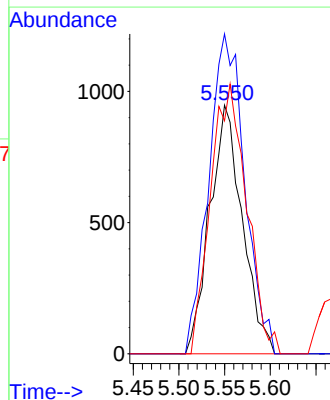
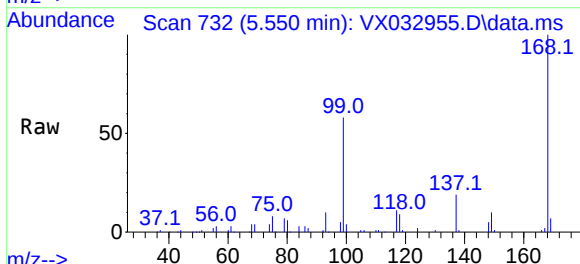
Tgt Ion: 56 Resp: 2348

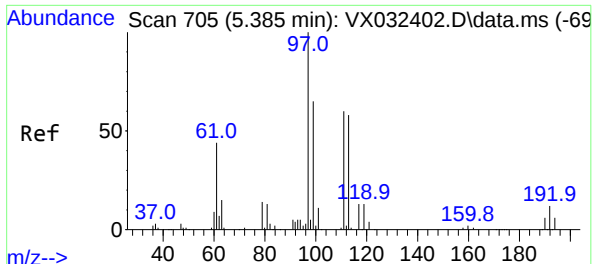
Ion Ratio Lower Upper

56 100

69 128.6 24.1 36.1#

84 93.7 66.9 100.3





#32

1,1,1-Trichloroethane

Concen: 0.510 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX032955.D

Acq: 21 Nov 2022 16:19

Instrument :

MSVOA_X

ClientSampleId :

RE115D1-20221117

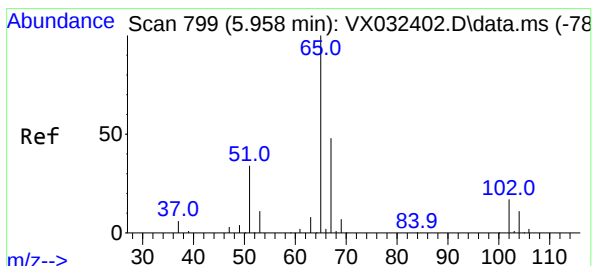
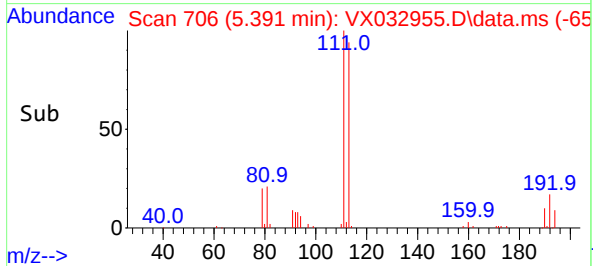
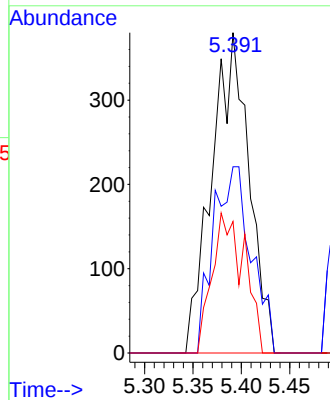
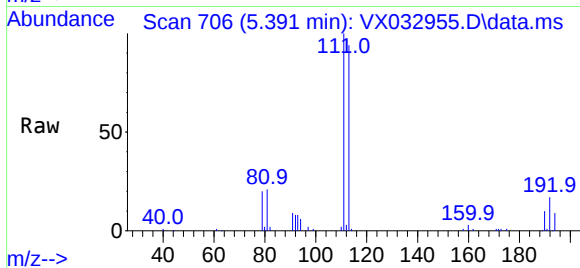
Tgt Ion: 97 Resp: 1020

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.0#

61 37.7 35.2 52.8



#33

1,2-Dichloroethane-d4

Concen: 51.703 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX032955.D

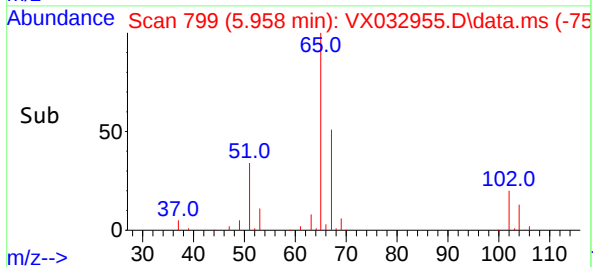
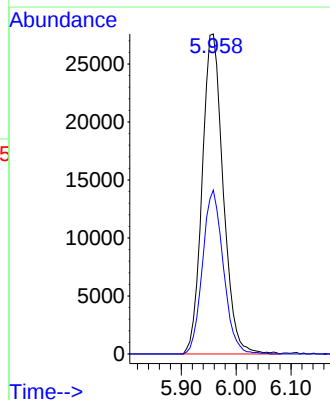
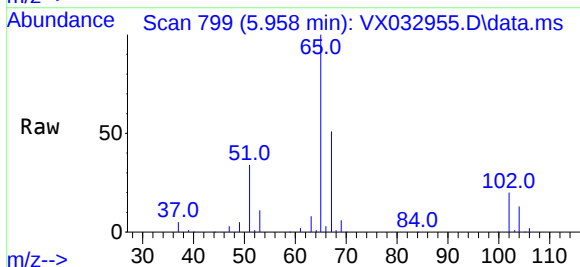
Acq: 21 Nov 2022 16:19

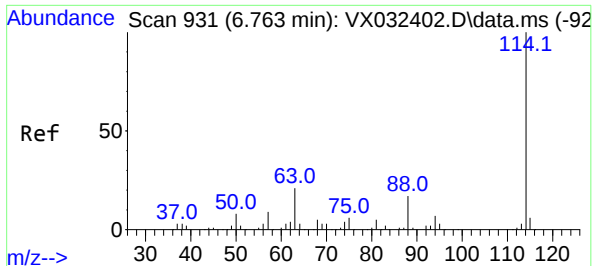
Tgt Ion: 65 Resp: 73301

Ion Ratio Lower Upper

65 100

67 50.8 0.0 101.8

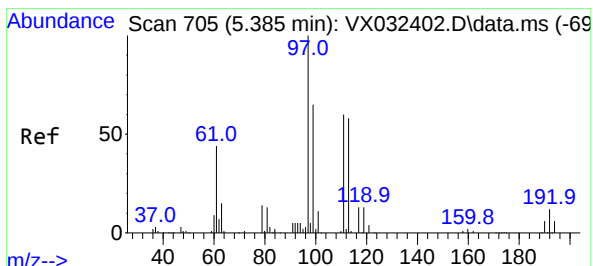
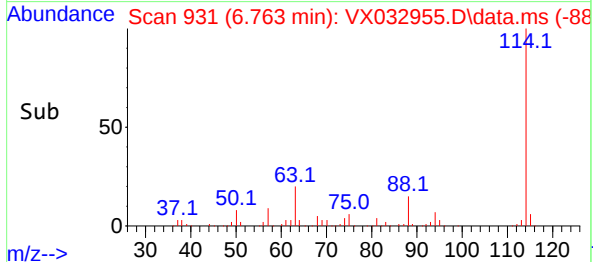
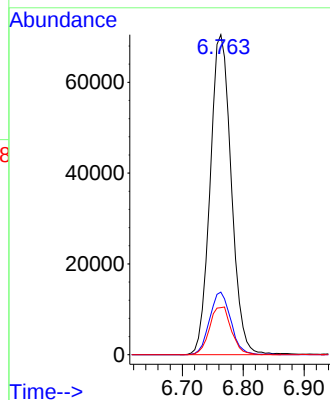
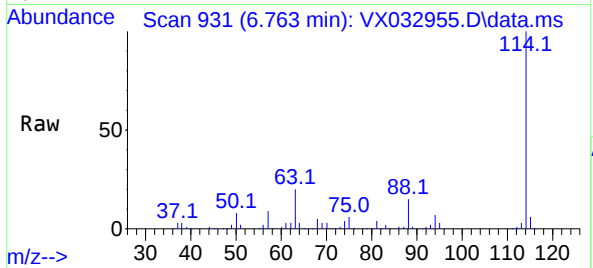




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

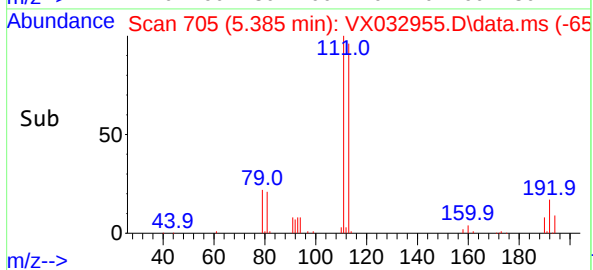
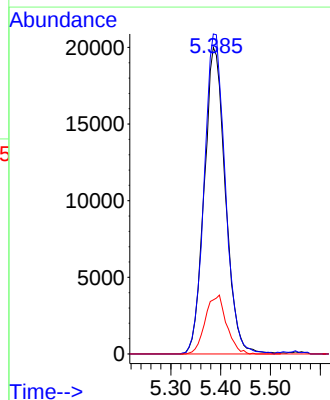
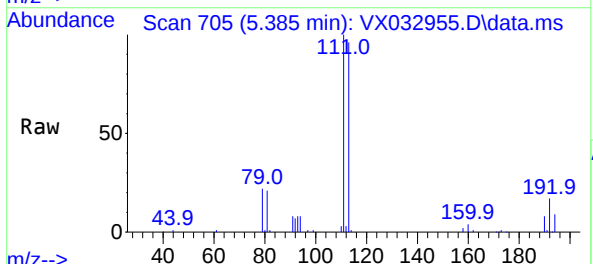
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20221117

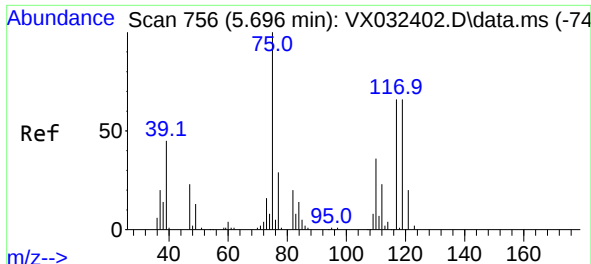
Tgt Ion:114 Resp: 169640
Ion Ratio Lower Upper
114 100
63 19.6 0.0 41.6
88 14.7 0.0 33.4



#35
Dibromofluoromethane
Concen: 48.682 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion:113 Resp: 58908
Ion Ratio Lower Upper
113 100
111 103.7 82.4 123.6
192 19.2 15.4 23.2

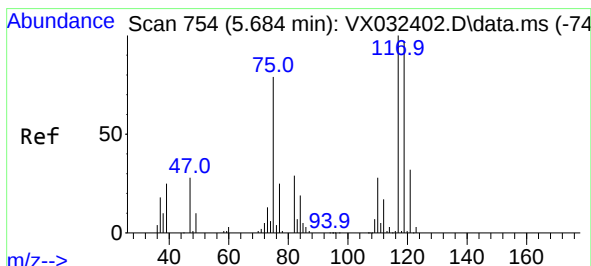
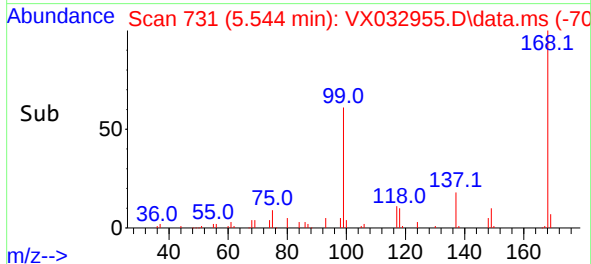
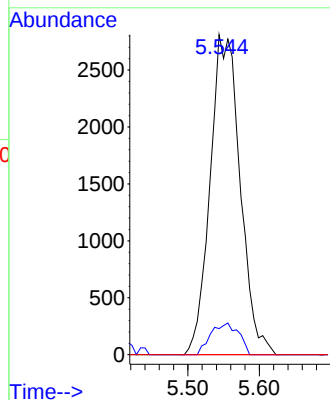
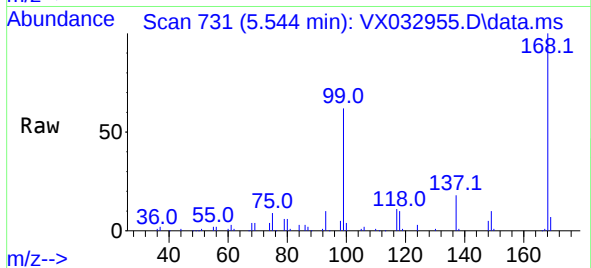




#36
1,1-Dichloropropene
Concen: 4.867 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.152 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

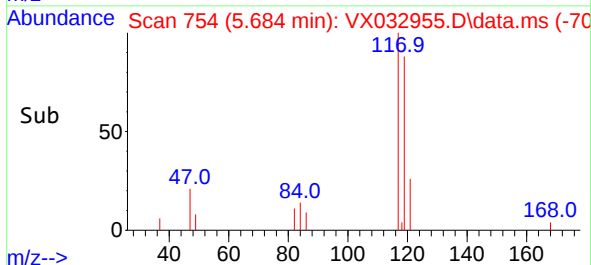
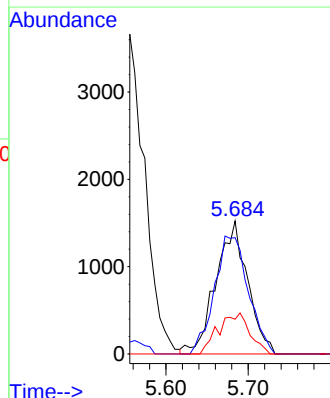
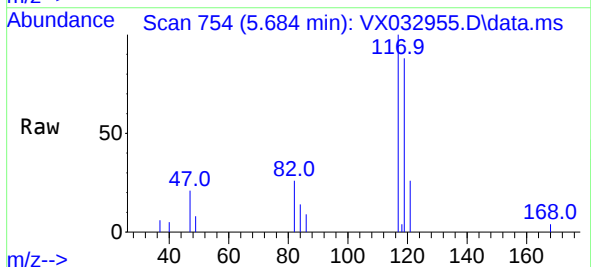
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20221117

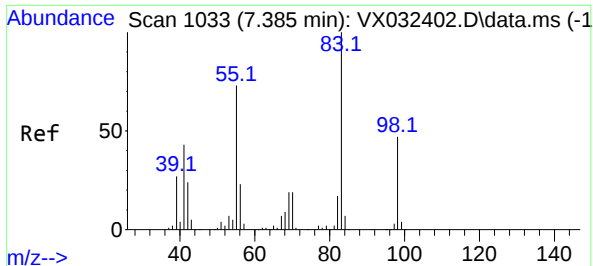
Tgt Ion: 75 Resp: 8202
Ion Ratio Lower Upper
75 100
110 9.2 18.4 55.2#
77 0.0 24.5 36.7#



#38
Carbon Tetrachloride
Concen: 2.181 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion: 117 Resp: 4077
Ion Ratio Lower Upper
117 100
119 87.5 77.2 115.8
121 26.1 25.8 38.6





#39

Methylcyclohexane

Concen: 2.340 ug/l

RT: 7.123 min Scan# 91

Delta R.T. -0.262 min

Lab File: VX032955.D

Acq: 21 Nov 2022 16:19

Instrument :

MSVOA_X

ClientSampleId :

RE115D1-20221117

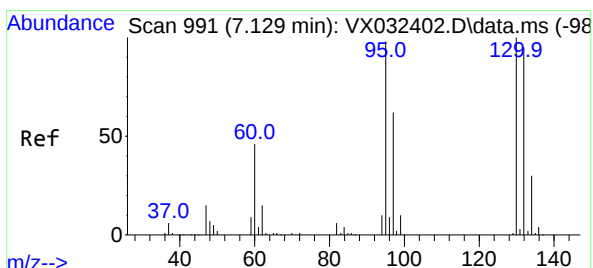
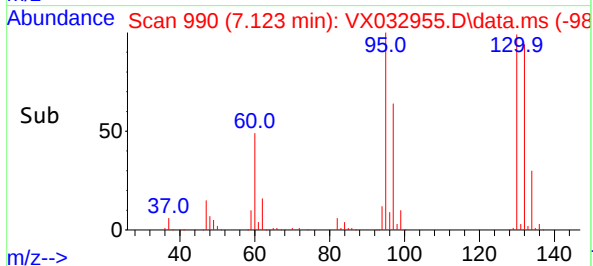
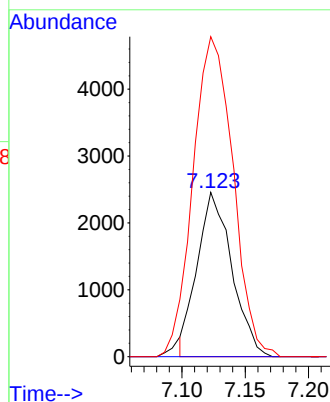
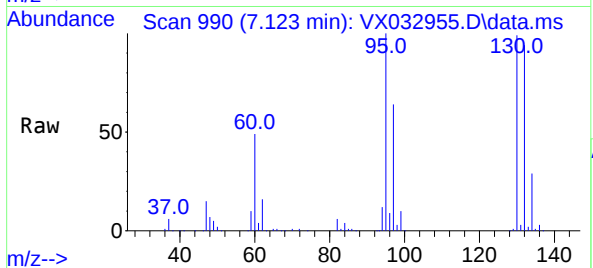
Tgt Ion: 83 Resp: 4666

Ion Ratio Lower Upper

83 100

55 0.0 58.4 87.6#

98 194.8 37.2 55.8#



#44

Trichloroethene

Concen: 293.734 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.000 min

Lab File: VX032955.D

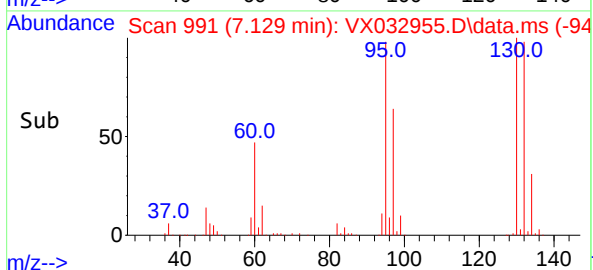
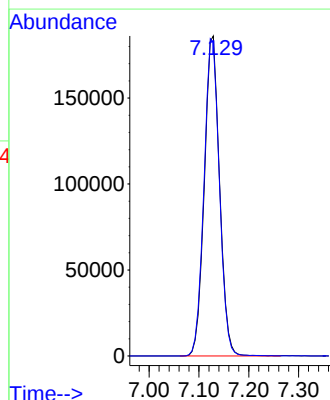
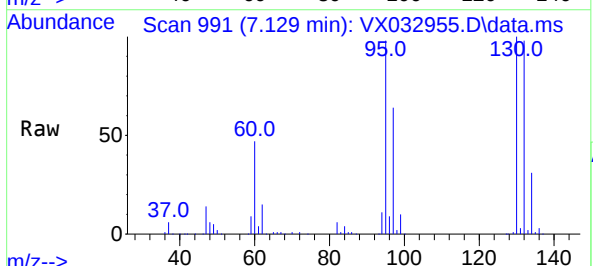
Acq: 21 Nov 2022 16:19

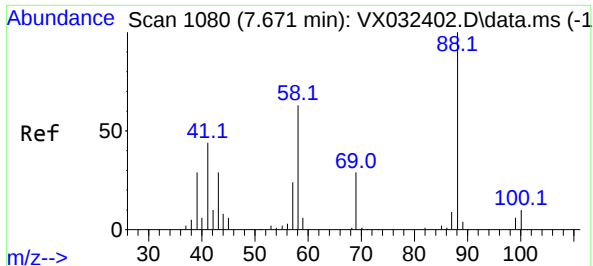
Tgt Ion:130 Resp: 394295

Ion Ratio Lower Upper

130 100

95 97.9 0.0 195.2





#49

1,4-Dioxane

Concen: 7.772 ug/l

RT: 7.714 min Scan# 10

Delta R.T. 0.043 min

Lab File: VX032955.D

Acq: 21 Nov 2022 16:19

Instrument :

MSVOA_X

ClientSampleId :

RE115D1-20221117

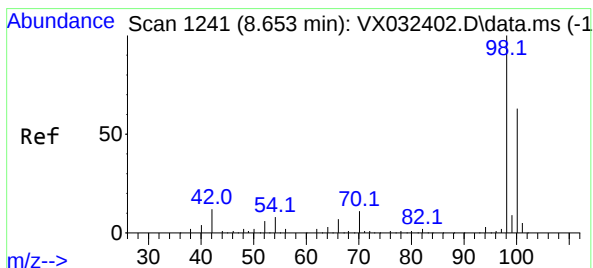
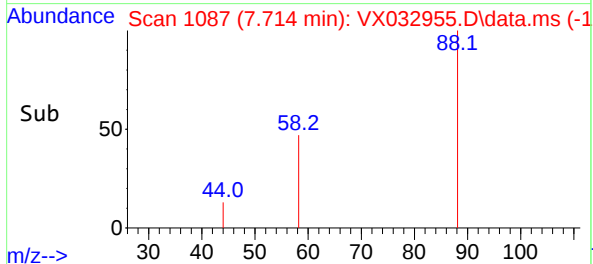
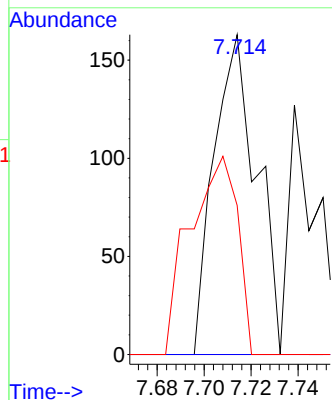
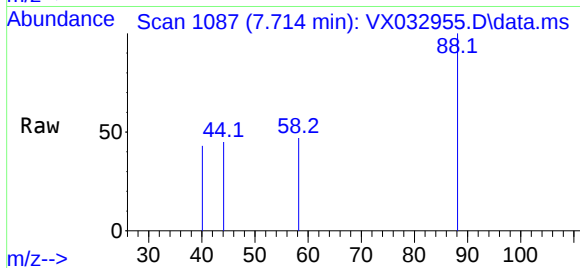
Tgt Ion: 88 Resp: 206

Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

58 69.4 51.7 77.5



#50

Toluene-d8

Concen: 50.929 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX032955.D

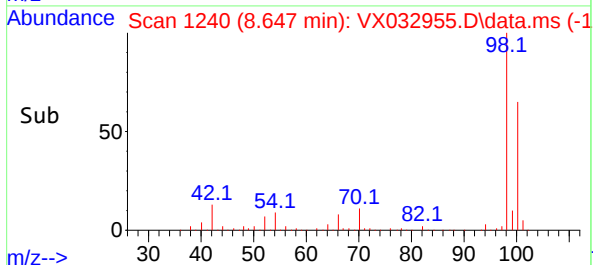
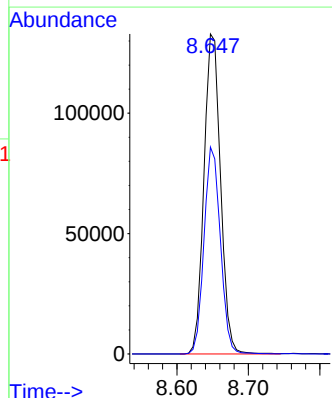
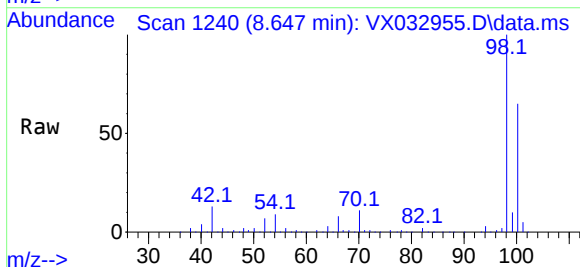
Acq: 21 Nov 2022 16:19

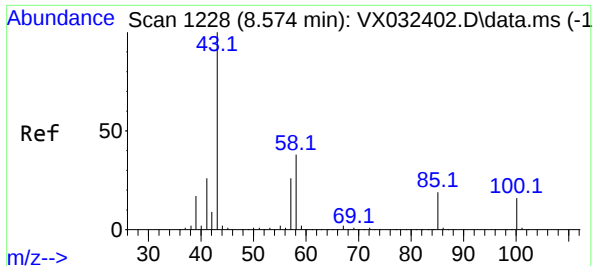
Tgt Ion: 98 Resp: 214292

Ion Ratio Lower Upper

98 100

100 63.6 50.9 76.3

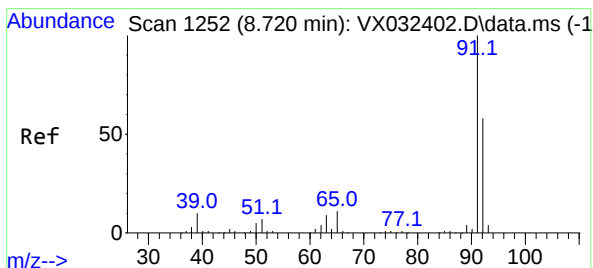
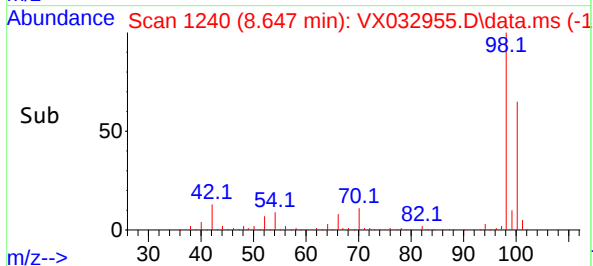
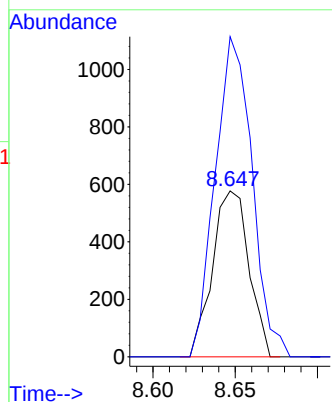
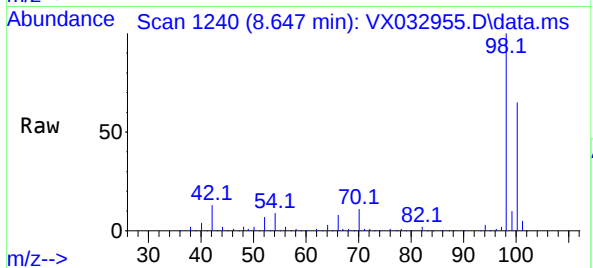




#51
4-Methyl-2-Pentanone
Concen: 0.524 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.073 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

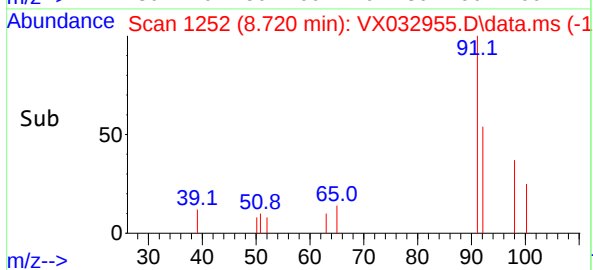
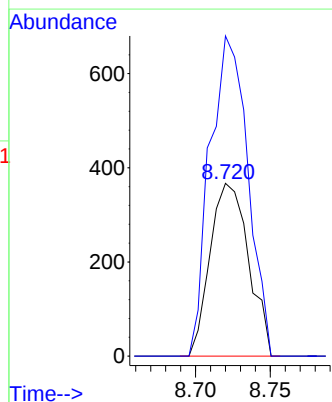
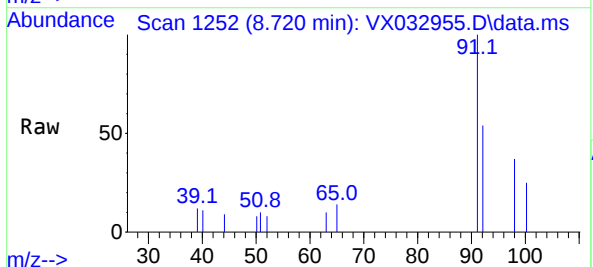
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20221117

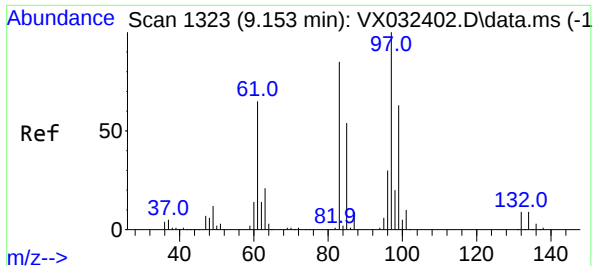
Tgt Ion: 43 Resp: 889
Ion Ratio Lower Upper
43 100
58 195.8 30.9 46.3#



#52
Toluene
Concen: 0.211 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion: 92 Resp: 657
Ion Ratio Lower Upper
92 100
91 182.6 138.3 207.5

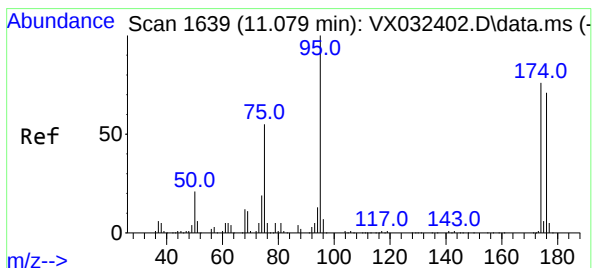
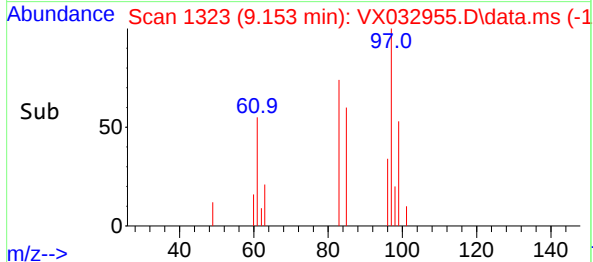
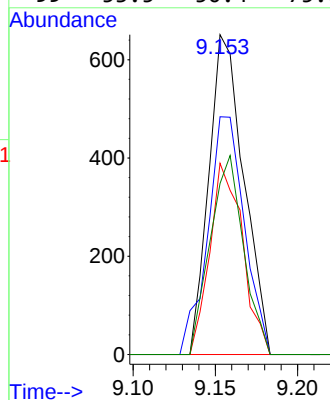
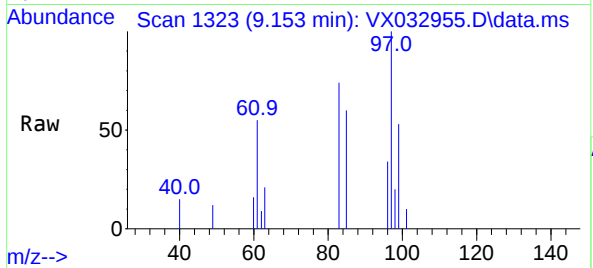




#55
1,1,2-Trichloroethane
Concen: 0.736 ug/l
RT: 9.153 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

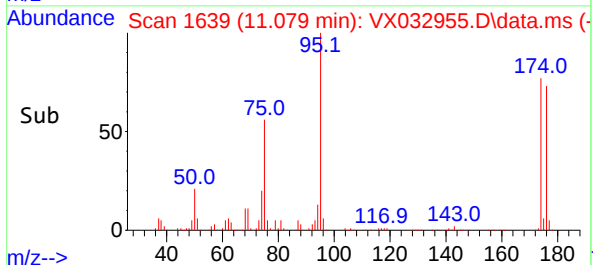
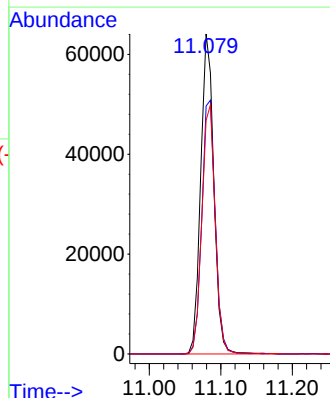
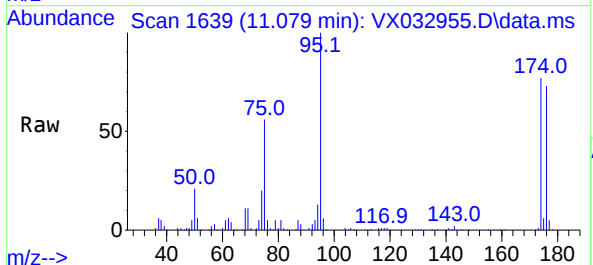
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20221117

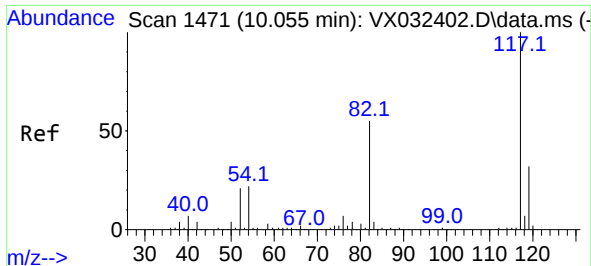
Tgt Ion: 97	Resp:	964	
Ion	Ratio	Lower	Upper
97	100		
83	74.3	68.1	102.1
85	59.8	43.3	64.9
99	53.5	50.4	75.6



#62
4-Bromofluorobenzene
Concen: 49.597 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion: 95	Resp:	81518	
Ion Ratio	Lower	Upper	
95 100			
174	81.4	0.0	164.0
176	79.2	0.0	154.4

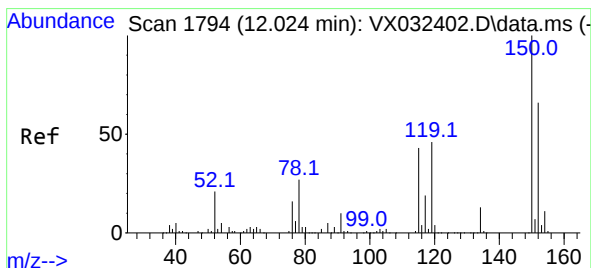
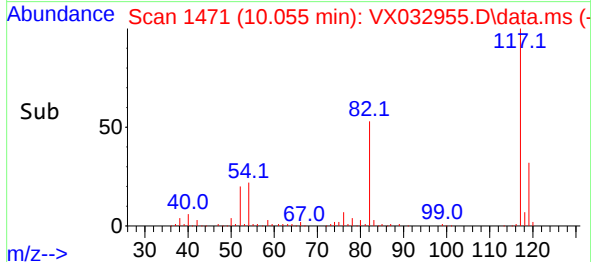
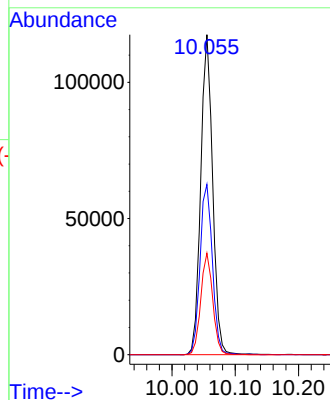
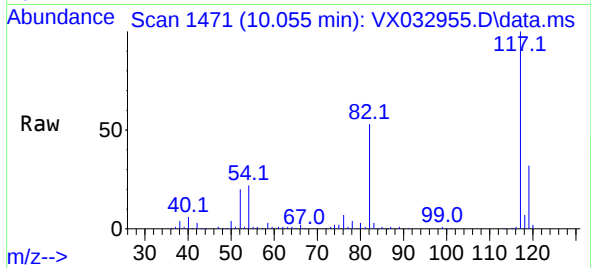




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

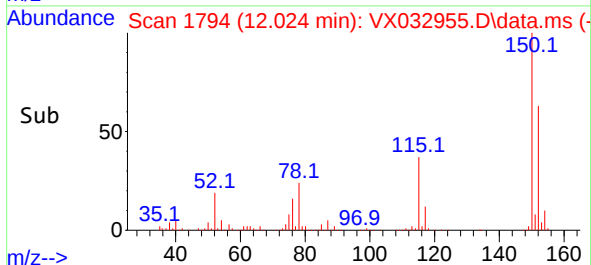
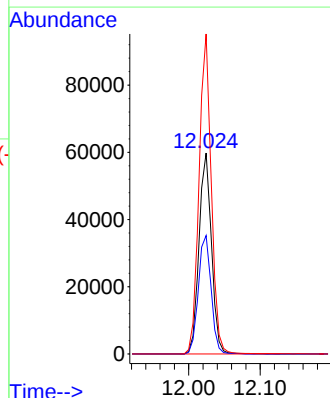
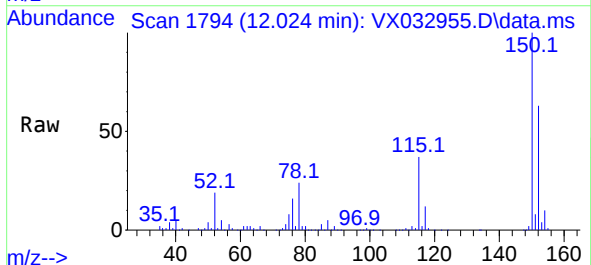
Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20221117

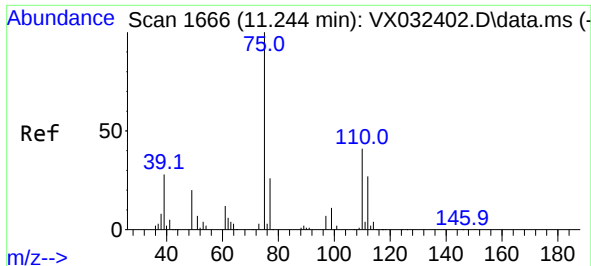
Tgt Ion:117 Resp: 154276
Ion Ratio Lower Upper
117 100
82 53.2 44.3 66.5
119 31.7 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion:152 Resp: 72413
Ion Ratio Lower Upper
152 100
115 60.2 44.0 132.0
150 155.6 0.0 351.8

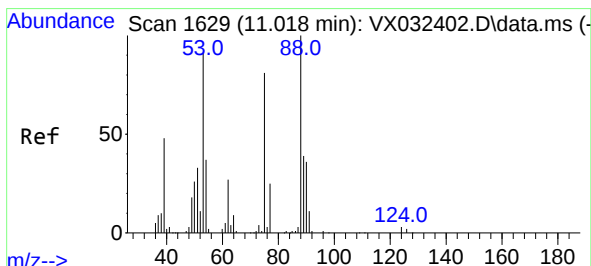
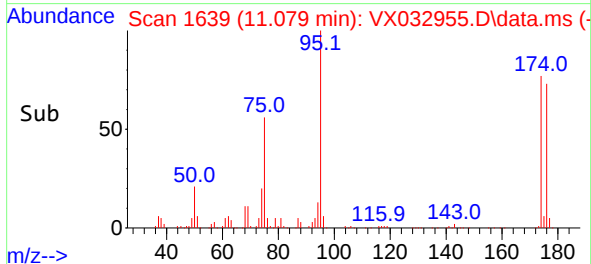
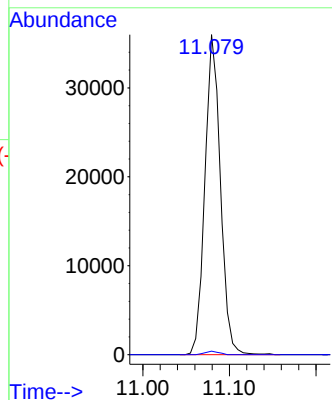
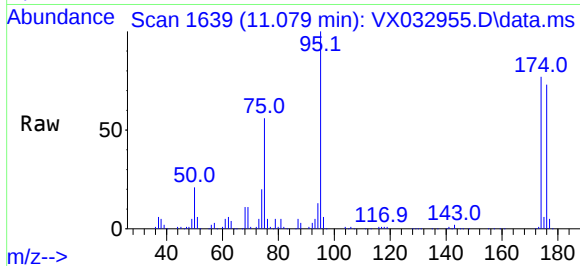




#76
1,2,3-Trichloropropane
Concen: 27.761 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Instrument :
MSVOA_X
ClientSampleId :
RE115D1-20221117

Tgt Ion: 75 Resp: 44723
Ion Ratio Lower Upper
75 100
77 1.0 20.0 60.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.336 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX032955.D
Acq: 21 Nov 2022 16:19

Tgt Ion: 75 Resp: 44723
Ion Ratio Lower Upper
75 100
53 0.0 86.9 130.3#
89 0.0 38.3 57.5#

