

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102122\
 Data File : VW028667.D
 Acq On : 21 Oct 2022 17:09
 Operator : SY/MD
 Sample : N5216-13
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHAC2

Quant Time: Oct 21 23:04:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102022WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 21 22:58:36 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	166328	5.000	ug/L	0.02
28) Chlorobenzene-d5	8.847	117	159314	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.243	152	79755	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	78276	4.753	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.000%
7) Chloroethane-d5	1.564	69	67660	5.227	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.600%
11) 1,1-Dichloroethene-d2	2.105	63	117124	4.093	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.800%
20) 2-Butanone-d5	3.905	46	91745	29.601	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	59.200%
24) Chloroform-d	4.342	84	113460	4.645	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.000%
26) 1,2-Dichloroethane-d4	5.031	65	58329	4.409	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.200%
32) Benzene-d6	5.047	84	243500	3.513	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.200%
36) 1,2-Dichloropropane-d6	6.066	67	79378	3.652	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	73.000%
41) Toluene-d8	7.313	98	199683	3.983	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.600%
43) trans-1,3-Dichloroprop...	7.622	79	18677	3.540	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	70.800%
46) 2-Hexanone-d5	8.088	63	109940	50.182	ug/L	-0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.360%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	49894	4.860	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.200%
66) 1,2-Dichlorobenzene-d4	11.615	152	67194	4.687	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	1025	0.063	ug/L #	69
6) Bromomethane	1.516	94	455	0.060	ug/L	85
8) Chloroethane	1.584	64	14341	1.367	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	1092	0.096	ug/L #	38
14) Carbon disulfide	2.294	76	3489	0.136	ug/L #	87
17) Methyl tert-butyl Ether	2.770	73	16364	0.557	ug/L #	10
18) trans-1,2-Dichloroethene	2.764	96	1683	0.144	ug/L	96
27) 1,2-Dichloroethane	5.095	62	110628	6.825	ug/L #	77
30) Cyclohexane	4.674	56	20020	0.666	ug/L	94
33) Benzene	5.095	78	11861227	158.704	ug/L	100
35) Methylcyclohexane	6.130	83	10994	0.406	ug/L	94
42) Toluene	7.387	91	87755	1.418	ug/L	96
51) Chlorobenzene	8.876	112	1619140	44.746	ug/L	99
52) Ethylbenzene	9.008	91	156309	2.443	ug/L	96
53) m,p-Xylene	9.130	106	1093325	46.762	ug/L	99
54) o-Xylene	9.535	106	685604	29.567	ug/L	95
55) Styrene	9.535	104	36638	0.927	ug/L #	1
60) Isopropylbenzene	9.924	105	526432	7.898	ug/L	100
61) 1,2,3-Trichloropropane	9.924	75	6665	0.771	ug/L #	1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV102122\
 Data File : VV028667.D
 Acq On : 21 Oct 2022 17:09
 Operator : SY/MD
 Sample : N5216-13
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHAC2

Quant Time: Oct 21 23:04:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102022WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 21 22:58:36 2022
 Response via : Initial Calibration

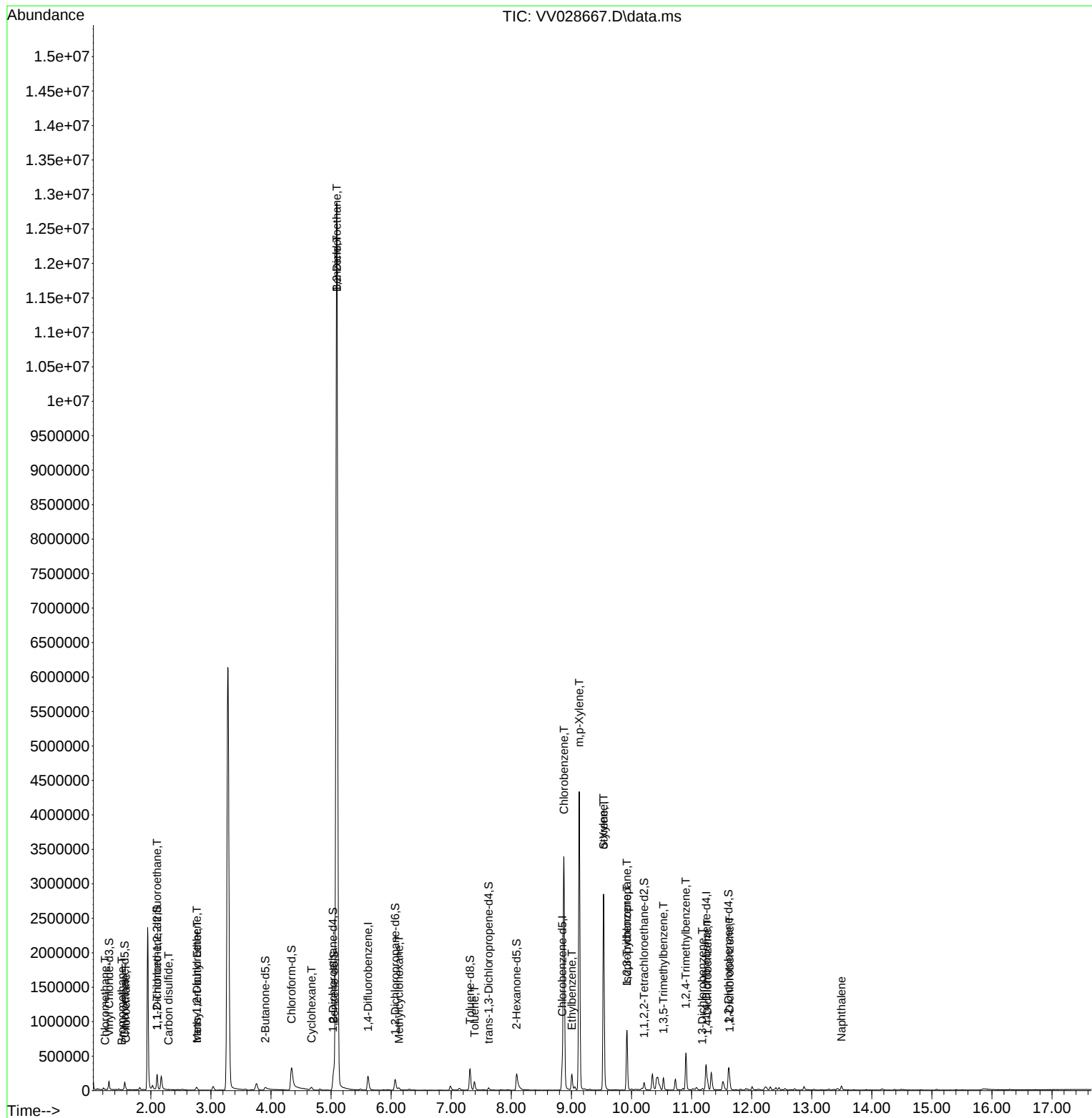
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	10.532	105	79263	4.140	ug/L	98
63) 1,2,4-Trimethylbenzene	10.905	105	276451	5.362	ug/L	99
64) 1,3-Dichlorobenzene	11.178	146	4841	0.183	ug/L	94
65) 1,4-Dichlorobenzene	11.265	146	43483	1.632	ug/L	99
67) 1,2-Dichlorobenzene	11.635	146	36375	1.482	ug/L	97
71) Naphthalene	13.493	128	42326	1.691	ug/L	98

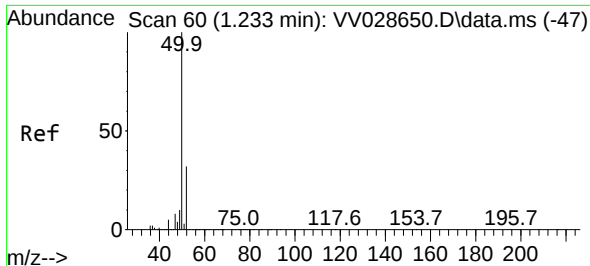
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV102122\
Data File : VV028667.D
Acq On : 21 Oct 2022 17:09
Operator : SY/MD
Sample : N5216-13
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
BHAC2

Quant Time: Oct 21 23:04:15 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102022WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Oct 21 22:58:36 2022
Response via : Initial Calibration

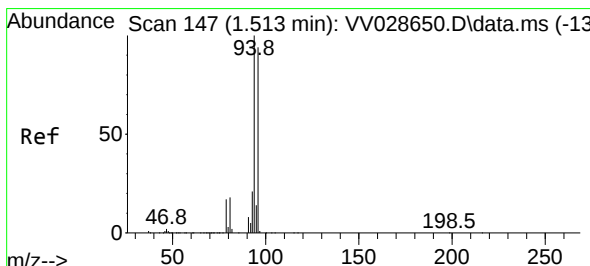
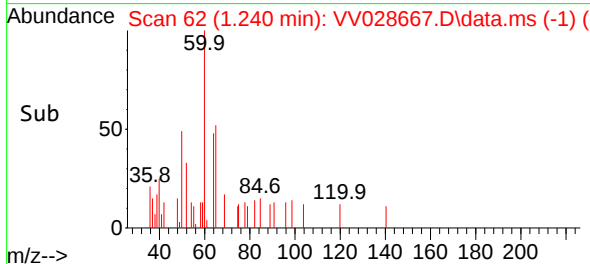
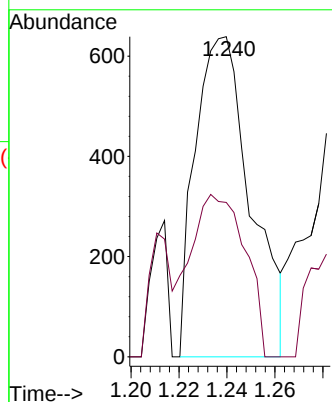
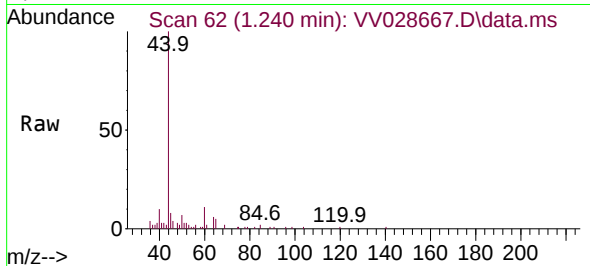




#3
Chloromethane
Concen: 0.063 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.006 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

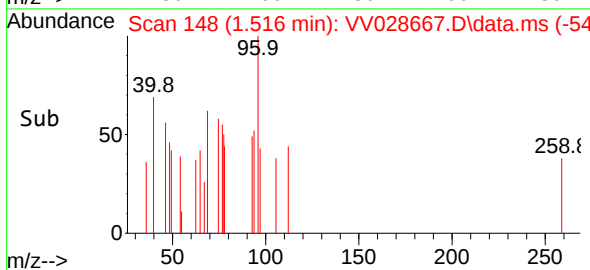
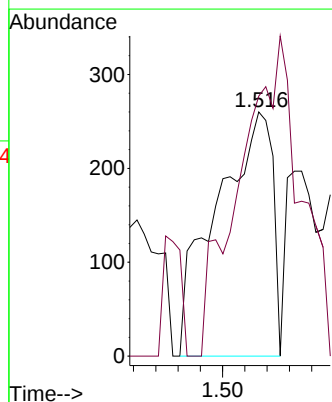
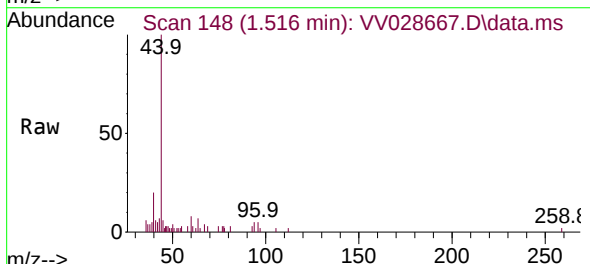
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

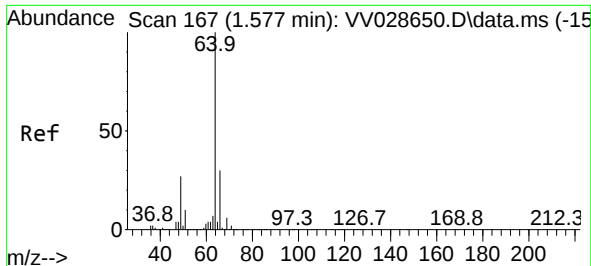
Tgt Ion: 50 Resp: 1025
Ion Ratio Lower Upper
50 100
52 48.2 21.8 40.6#



#6
Bromomethane
Concen: 0.060 ug/L
RT: 1.516 min Scan# 148
Delta R.T. 0.003 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion: 94 Resp: 455
Ion Ratio Lower Upper
94 100
96 106.5 64.3 119.3

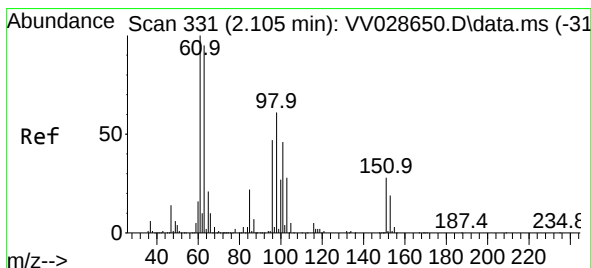
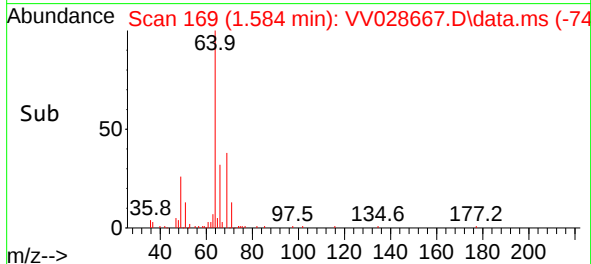
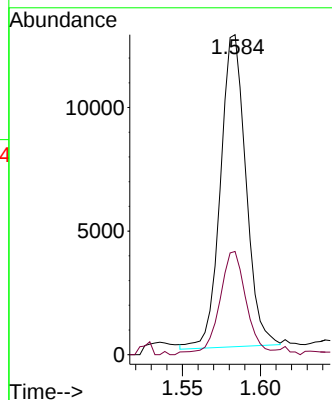
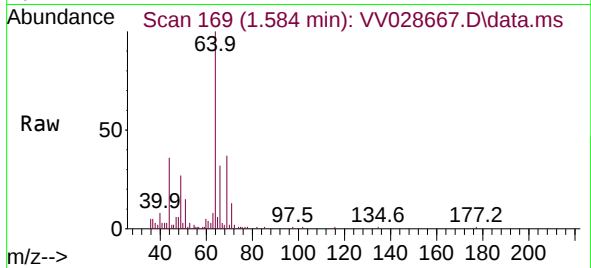




#8
Chloroethane
Concen: 1.367 ug/L
RT: 1.584 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

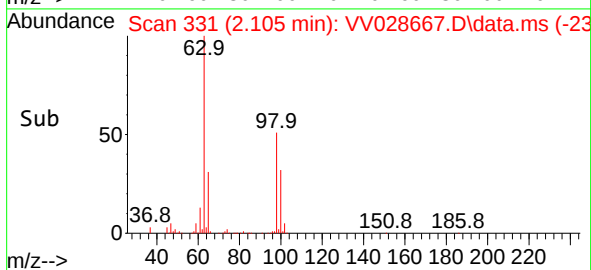
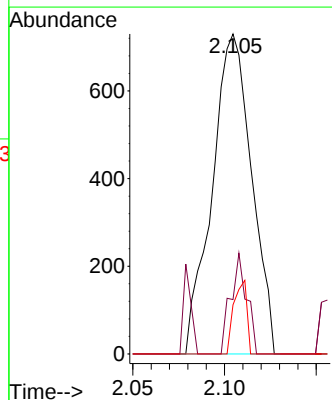
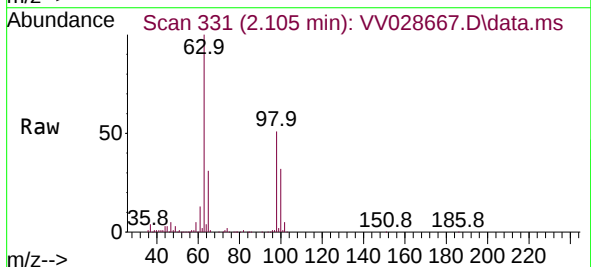
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

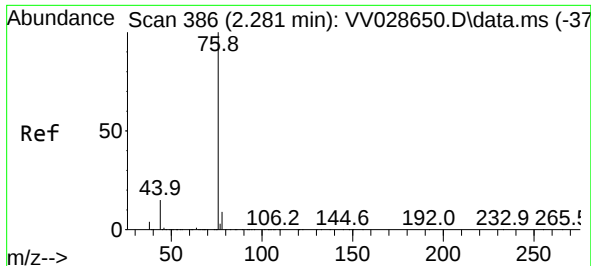
Tgt Ion: 64 Resp: 14341
Ion Ratio Lower Upper
64 100
66 32.2 23.9 44.5



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.096 ug/L
RT: 2.105 min Scan# 331
Delta R.T. 0.000 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion: 101 Resp: 1092
Ion Ratio Lower Upper
101 100
85 12.8 37.0 55.6#
151 7.5 50.2 75.2#

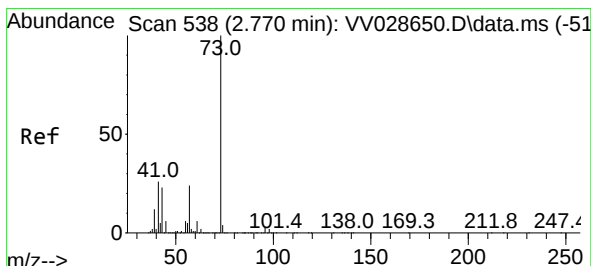
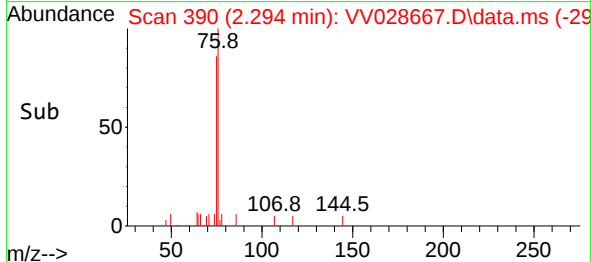
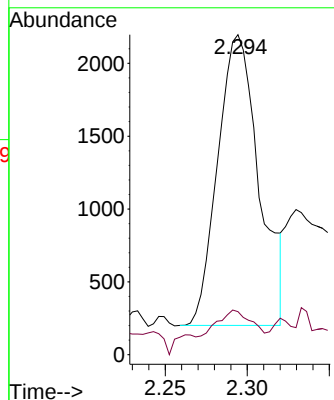
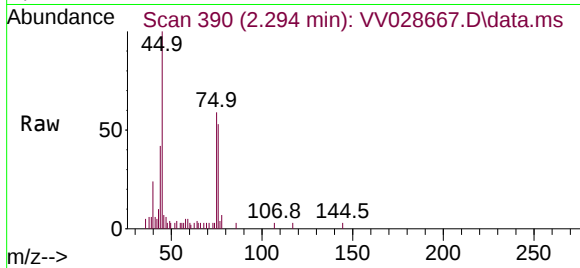




#14
Carbon disulfide
Concen: 0.136 ug/L
RT: 2.294 min Scan# 390
Delta R.T. 0.013 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

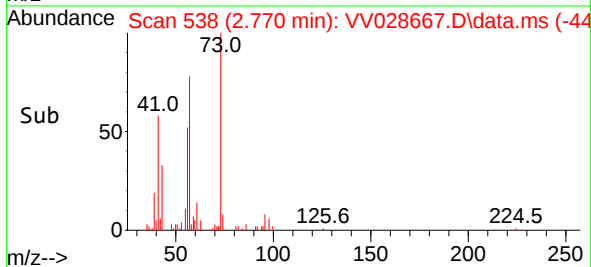
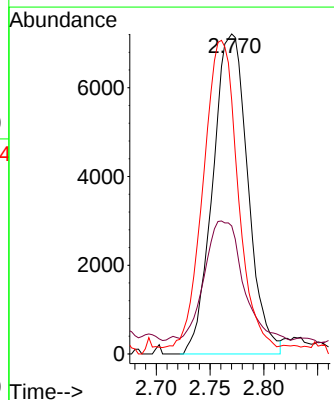
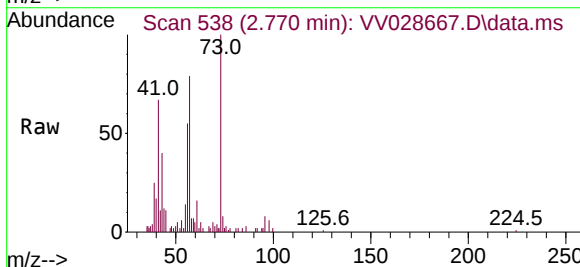
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

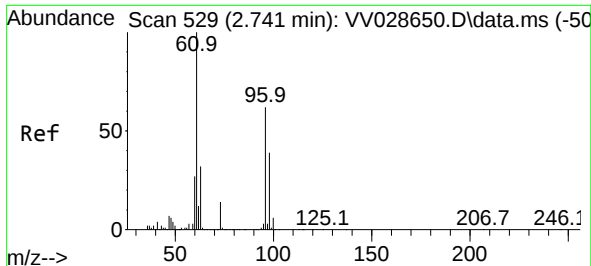
Tgt Ion: 76 Resp: 3489
Ion Ratio Lower Upper
76 100
78 13.5 7.1 10.7#



#17
Methyl tert-butyl Ether
Concen: 0.557 ug/L
RT: 2.770 min Scan# 538
Delta R.T. 0.000 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion: 73 Resp: 16364
Ion Ratio Lower Upper
73 100
43 40.4 18.0 27.0#
57 93.7 20.0 30.0#

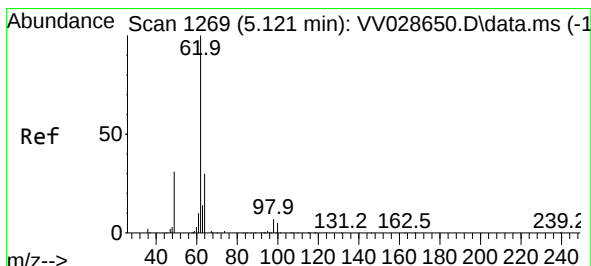
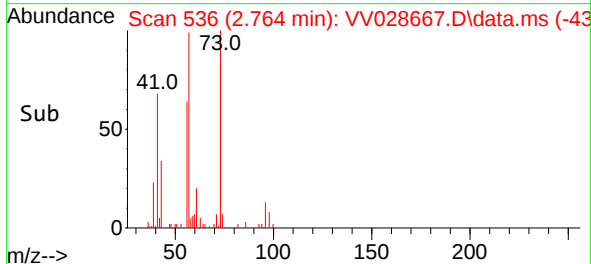
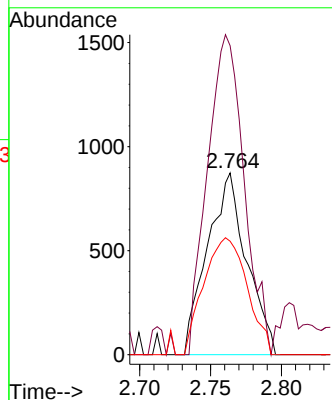
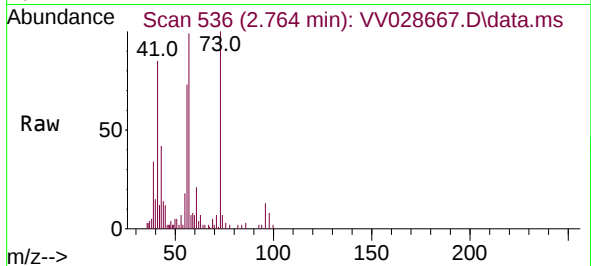




#18
trans-1,2-Dichloroethene
Concen: 0.144 ug/L
RT: 2.764 min Scan# 51
Delta R.T. 0.023 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

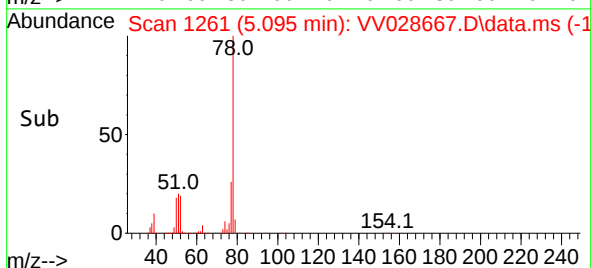
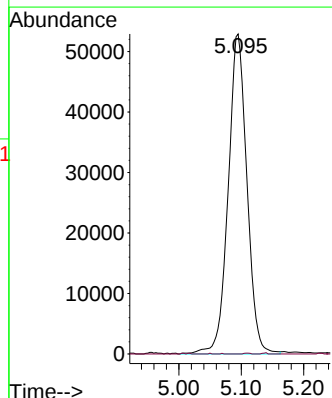
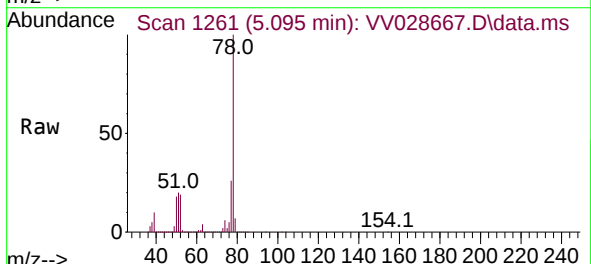
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

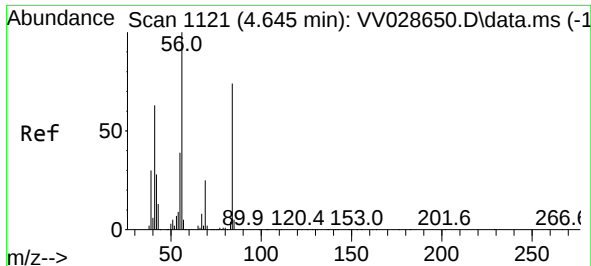
Tgt Ion: 96 Resp: 1683
Ion Ratio Lower Upper
96 100
61 169.9 114.3 212.3
98 62.4 45.0 83.6



#27
1,2-Dichloroethane
Concen: 6.825 ug/L
RT: 5.095 min Scan# 1261
Delta R.T. -0.026 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion: 62 Resp: 110628
Ion Ratio Lower Upper
62 100
98 0.0 6.6 9.8#

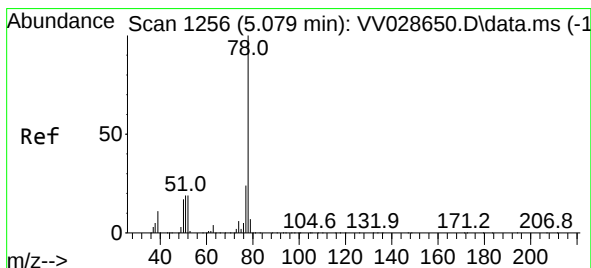
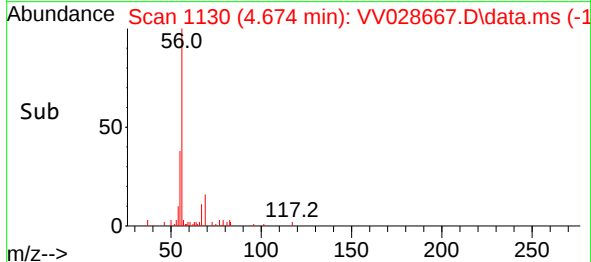
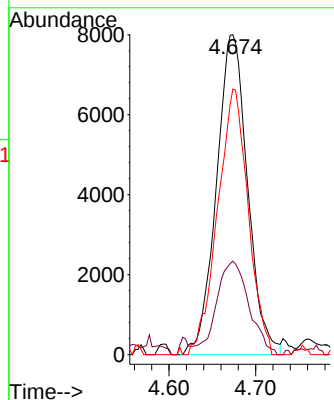
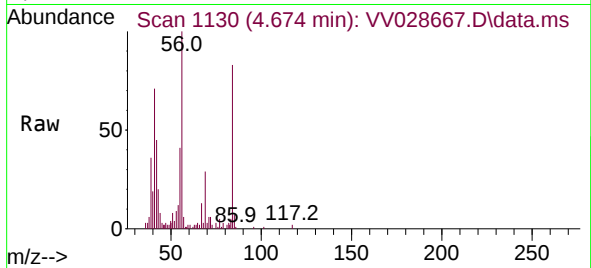




#30
Cyclohexane
Concen: 0.666 ug/L
RT: 4.674 min Scan# 1121
Delta R.T. 0.029 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

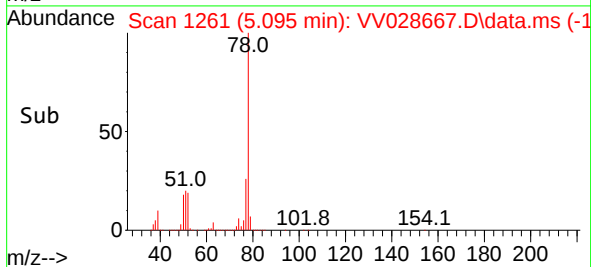
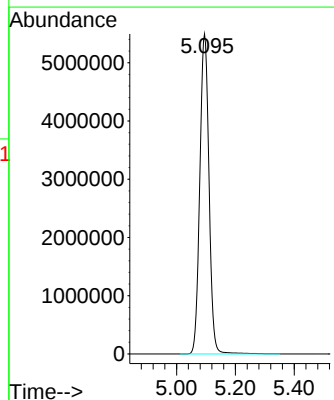
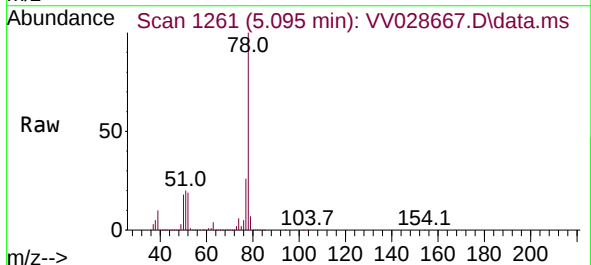
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

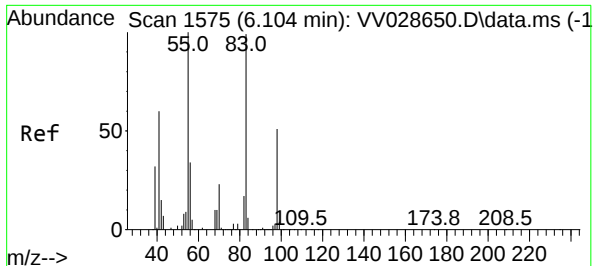
Tgt Ion: 56	Resp:	20020
Ion	Ratio	Lower Upper
56	100	
69	30.5	22.6 34.0
84	81.3	60.4 90.6



#33
Benzene
Concen: 158.704 ug/L
RT: 5.095 min Scan# 1261
Delta R.T. 0.016 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion: 78 Resp:11861227

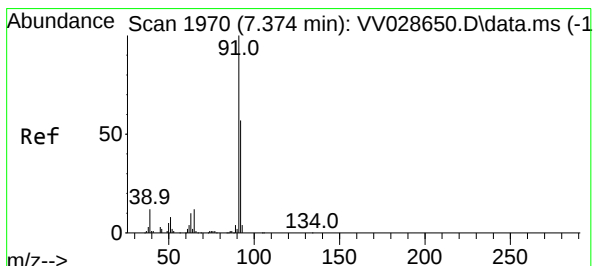
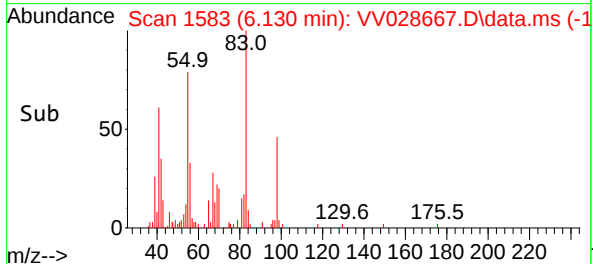
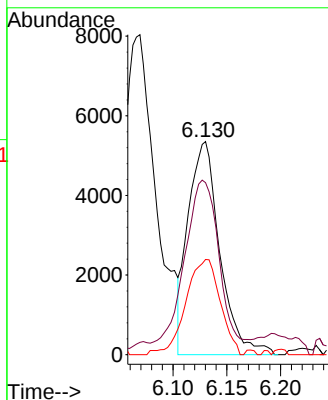
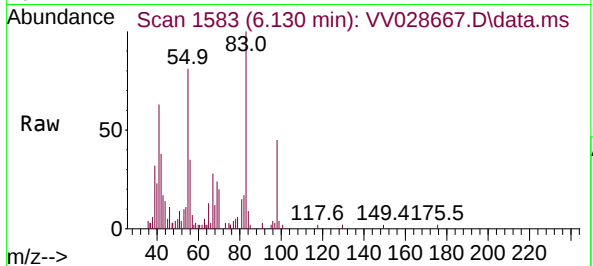




#35
Methylcyclohexane
Concen: 0.406 ug/L
RT: 6.130 min Scan# 11
Delta R.T. 0.026 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

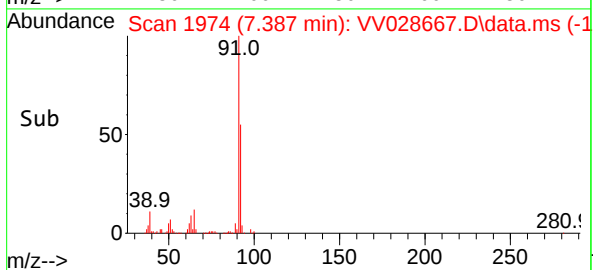
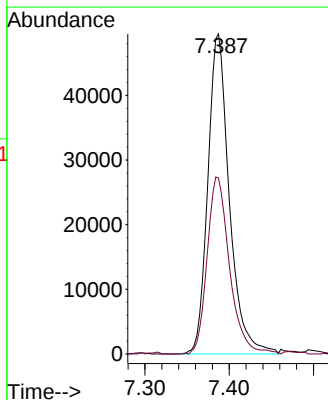
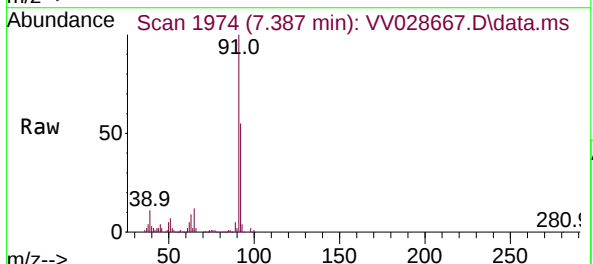
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

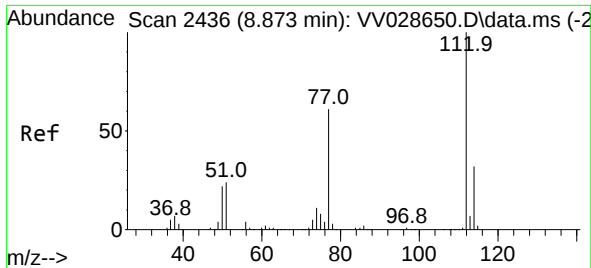
Tgt Ion: 83 Resp: 10994
Ion Ratio Lower Upper
83 100
55 81.7 70.0 105.0
98 48.3 35.6 53.4



#42
Toluene
Concen: 1.418 ug/L
RT: 7.387 min Scan# 1974
Delta R.T. 0.013 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion: 91 Resp: 87755
Ion Ratio Lower Upper
91 100
92 54.9 40.5 75.3

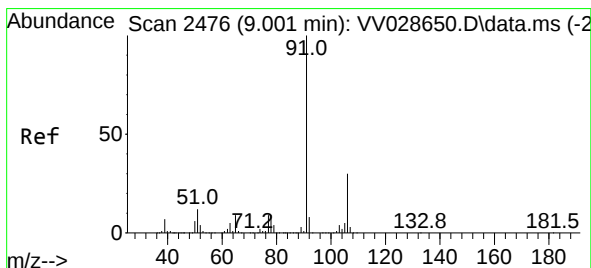
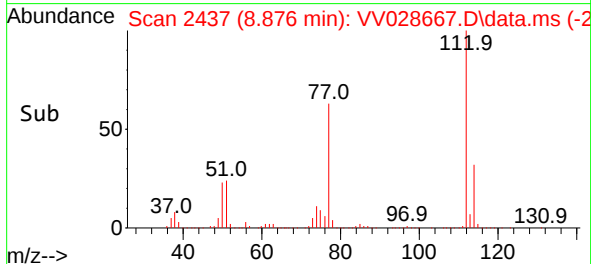
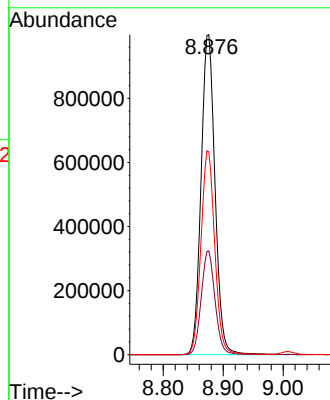
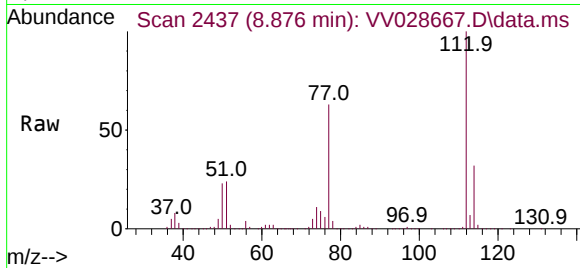




#51
Chlorobenzene
Concen: 44.746 ug/L
RT: 8.876 min Scan# 2436
Delta R.T. 0.003 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

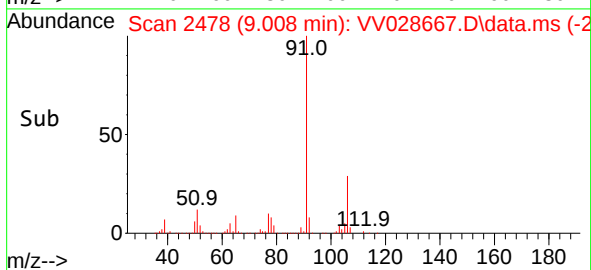
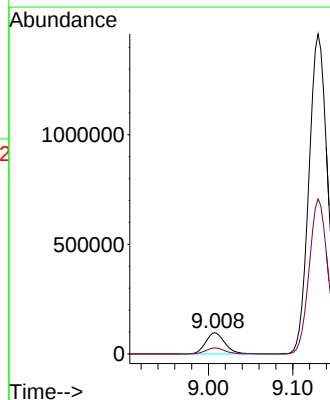
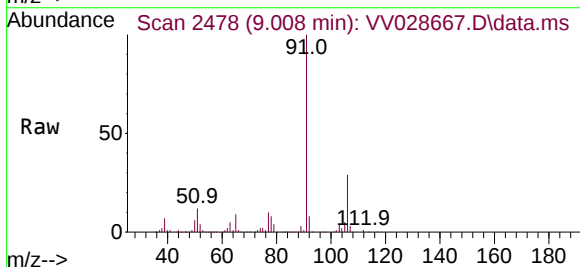
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

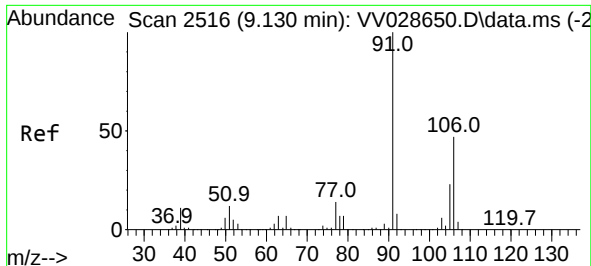
Tgt Ion:112 Resp: 1619140
Ion Ratio Lower Upper
112 100
114 32.4 22.0 41.0
77 63.4 50.0 75.0



#52
Ethylbenzene
Concen: 2.443 ug/L
RT: 9.008 min Scan# 2478
Delta R.T. 0.006 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion: 91 Resp: 156309
Ion Ratio Lower Upper
91 100
106 28.5 21.3 39.6

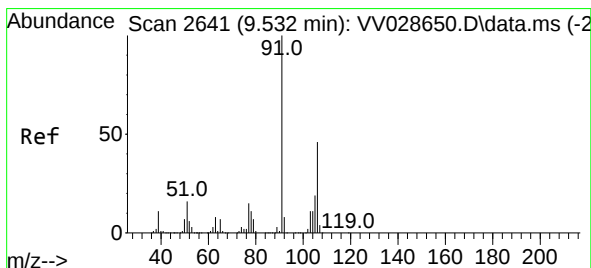
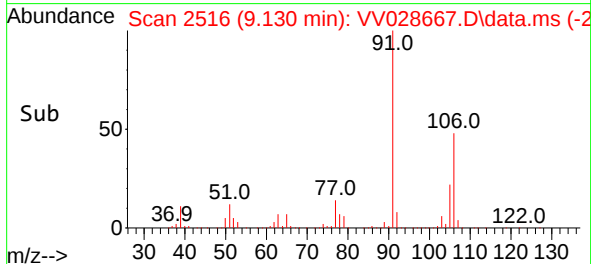
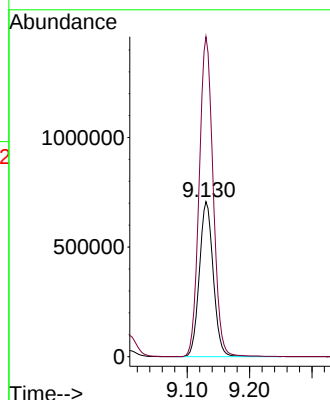
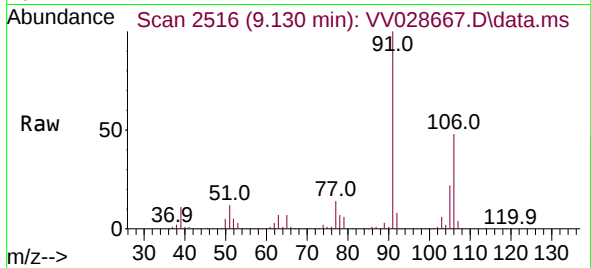




#53
m,p-Xylene
Concen: 46.762 ug/L
RT: 9.130 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

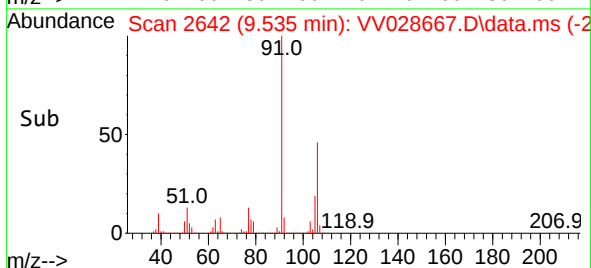
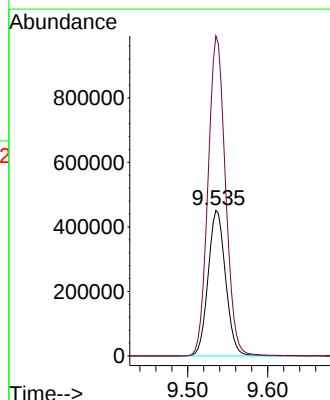
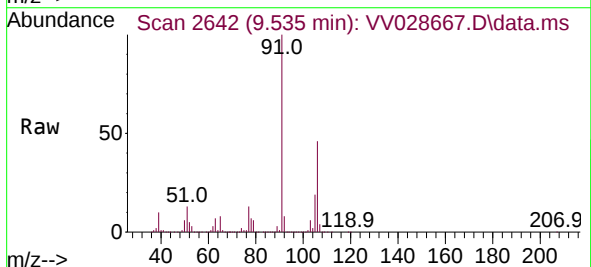
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

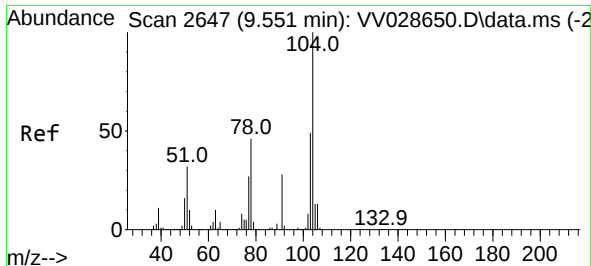
Tgt Ion:106 Resp: 1093325
Ion Ratio Lower Upper
106 100
91 206.5 145.5 270.1



#54
o-Xylene
Concen: 29.567 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. 0.003 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion:106 Resp: 685604
Ion Ratio Lower Upper
106 100
91 219.7 159.0 295.4

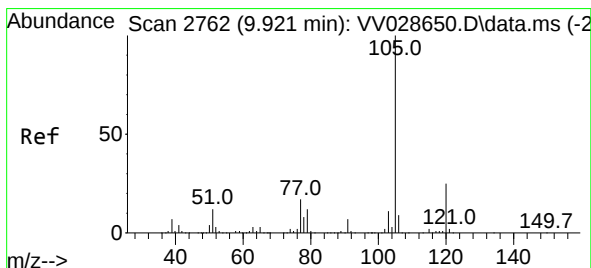
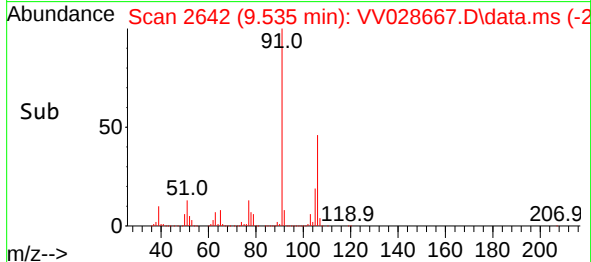
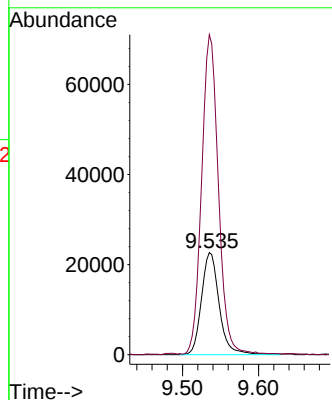
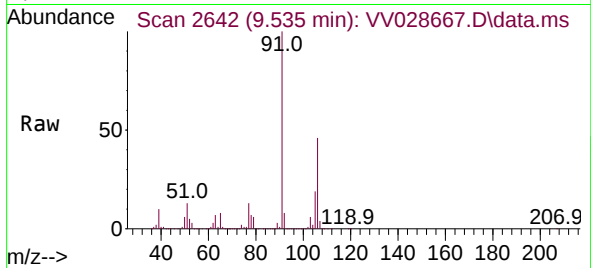




#55
Styrene
Concen: 0.927 ug/L
RT: 9.535 min Scan# 20
Delta R.T. -0.016 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

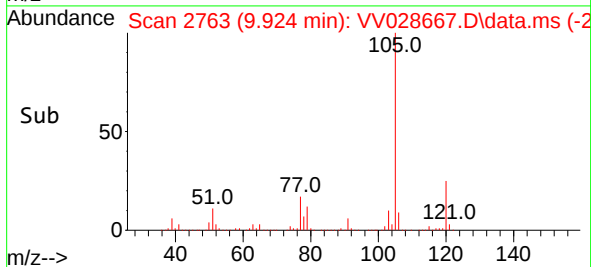
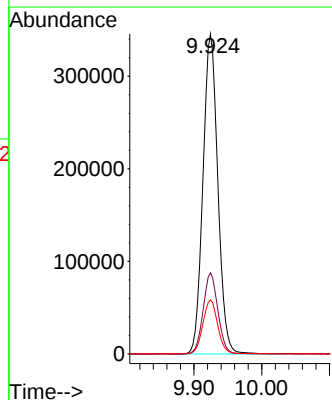
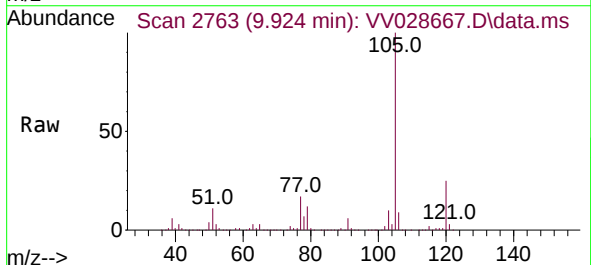
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

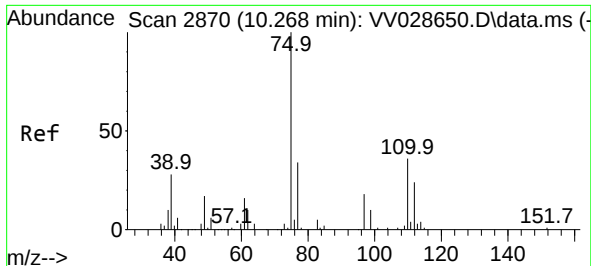
Tgt Ion:104 Resp: 36638
Ion Ratio Lower Upper
104 100
78 313.5 32.8 61.0#



#60
Isopropylbenzene
Concen: 7.898 ug/L
RT: 9.924 min Scan# 2763
Delta R.T. 0.003 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion:105 Resp: 526432
Ion Ratio Lower Upper
105 100
120 25.1 20.1 30.1
77 16.8 13.4 20.0

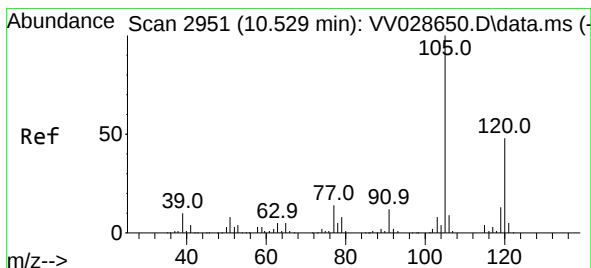
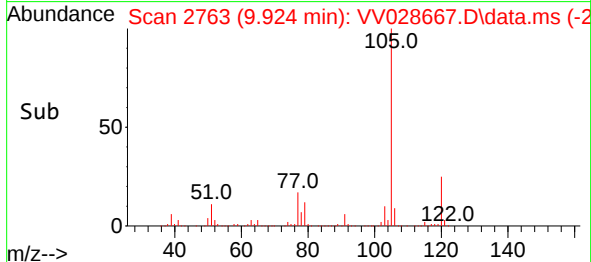
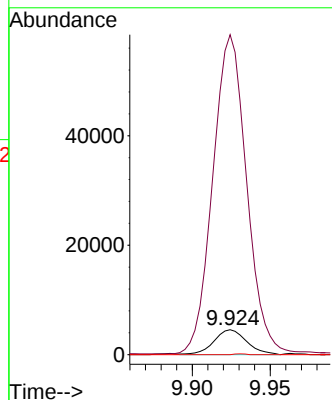
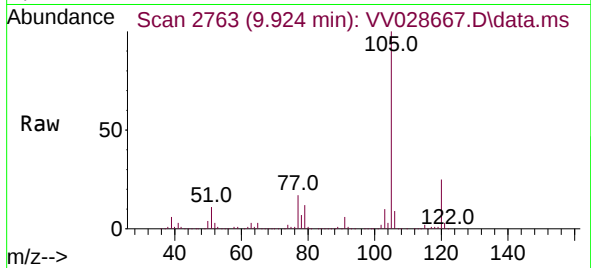




#61
1,2,3-Trichloropropane
Concen: 0.771 ug/L
RT: 9.924 min Scan# 21
Delta R.T. -0.344 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

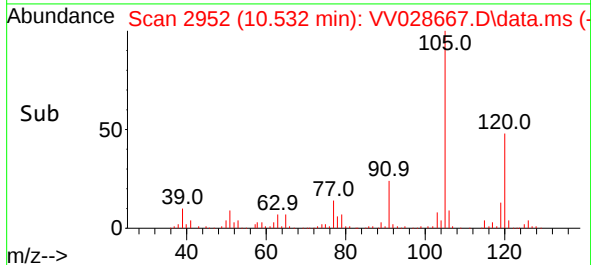
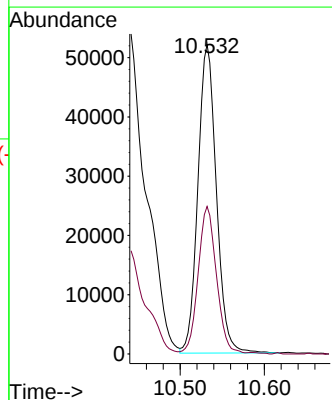
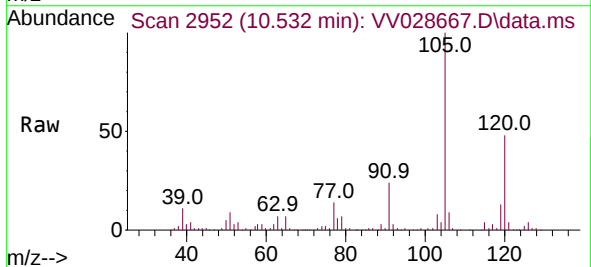
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

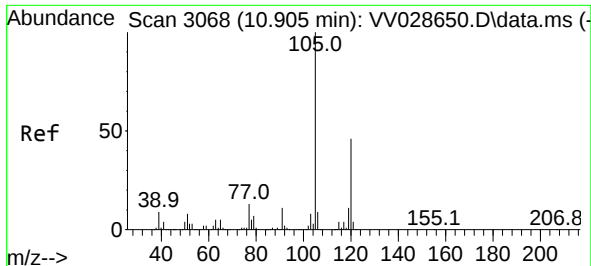
Tgt Ion: 75 Resp: 6665
Ion Ratio Lower Upper
75 100
77 1329.2 25.2 37.8#
110 1.1 27.9 41.9#



#62
1,3,5-Trimethylbenzene
Concen: 4.140 ug/L
RT: 10.532 min Scan# 2952
Delta R.T. 0.003 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion: 105 Resp: 79263
Ion Ratio Lower Upper
105 100
120 46.6 38.3 57.5

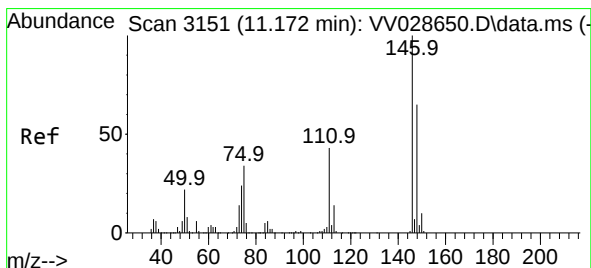
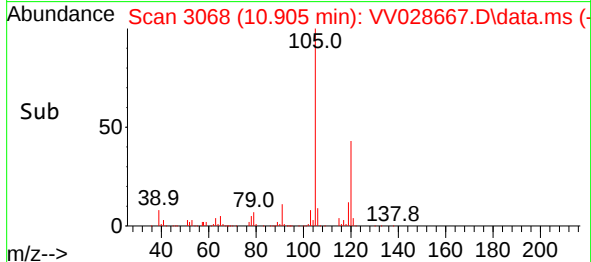
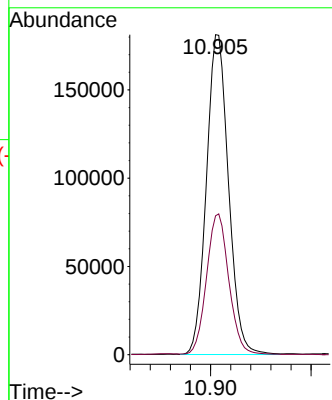
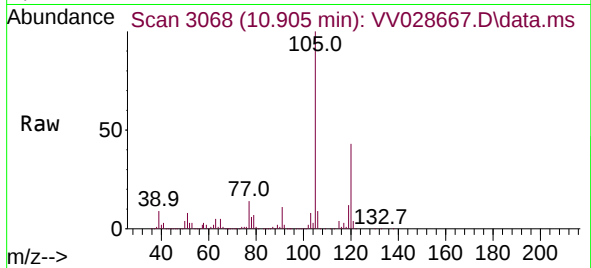




#63
1,2,4-Trimethylbenzene
Concen: 5.362 ug/L
RT: 10.905 min Scan# 3068
Delta R.T. 0.000 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

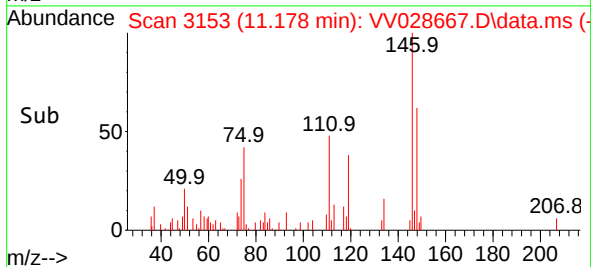
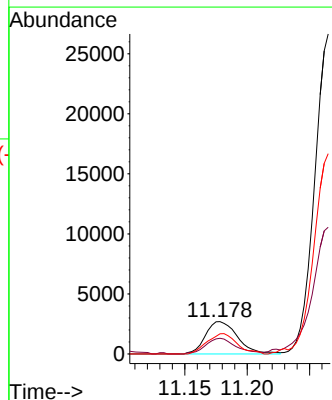
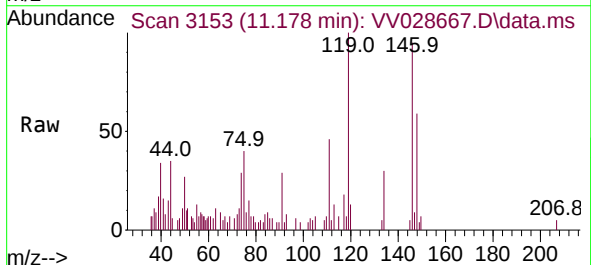
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

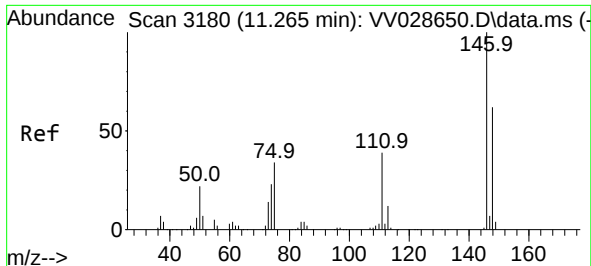
Tgt Ion:105 Resp: 276451
Ion Ratio Lower Upper
105 100
120 44.3 36.2 54.2



#64
1,3-Dichlorobenzene
Concen: 0.183 ug/L
RT: 11.178 min Scan# 3153
Delta R.T. 0.006 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion:146 Resp: 4841
Ion Ratio Lower Upper
146 100
111 48.5 29.0 53.9
148 62.1 44.5 82.7

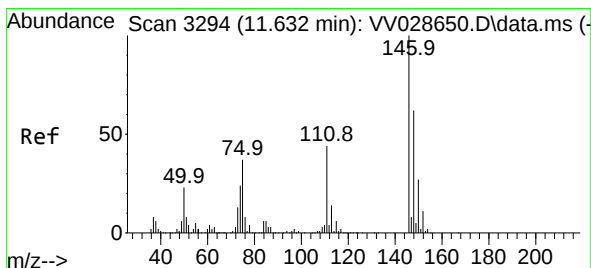
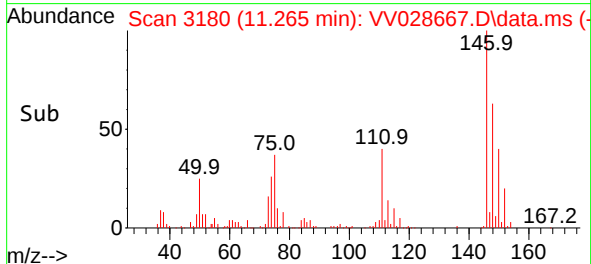
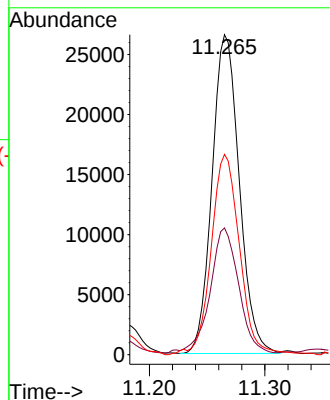
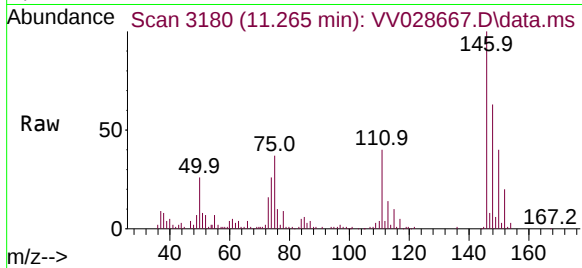




#65
1,4-Dichlorobenzene
Concen: 1.632 ug/L
RT: 11.265 min Scan# 3180
Delta R.T. 0.000 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

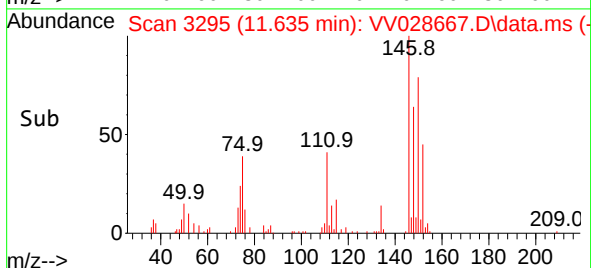
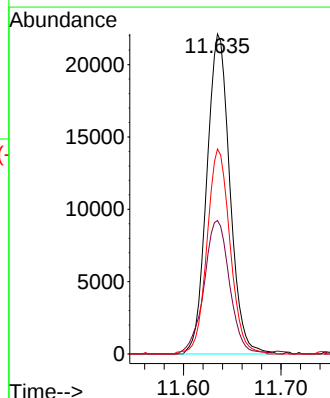
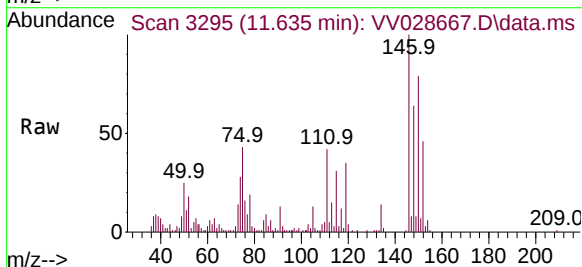
Instrument :
MSVOA_V
ClientSampleId :
BHAC2

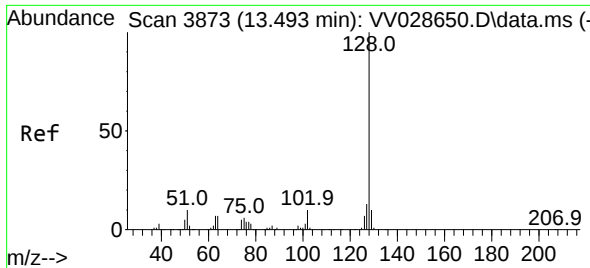
Tgt Ion:146 Resp: 43483
Ion Ratio Lower Upper
146 100
111 39.6 28.6 53.2
148 62.6 44.3 82.3



#67
1,2-Dichlorobenzene
Concen: 1.482 ug/L
RT: 11.635 min Scan# 3295
Delta R.T. 0.003 min
Lab File: VV028667.D
Acq: 21 Oct 2022 17:09

Tgt Ion:146 Resp: 36375
Ion Ratio Lower Upper
146 100
111 41.7 36.2 54.4
148 64.1 50.6 75.8





#71

Naphthalene

Concen: 1.691 ug/L

RT: 13.493 min Scan# 3873

Delta R.T. 0.000 min

Lab File: VV028667.D

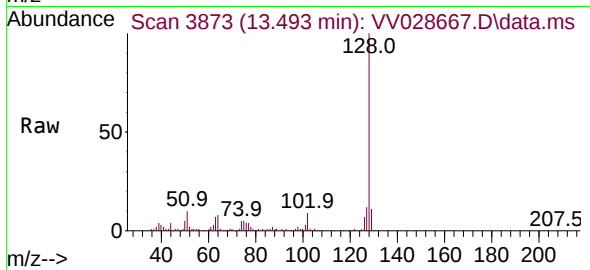
Acq: 21 Oct 2022 17:09

Instrument :

MSVOA_V

ClientSampleId :

BHAC2



Tgt Ion:128 Resp: 42326

Ion Ratio Lower Upper

128 100

129 11.7 8.9 13.3

127 13.8 10.2 15.4

