

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102822\
 Data File : VX032465.D
 Acq On : 28 Oct 2022 17:22
 Operator : JC/MD
 Sample : N5313-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TCLP-VOC-GRAB-7-SW-QUARTER

Quant Time: Oct 29 04:33:53 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)

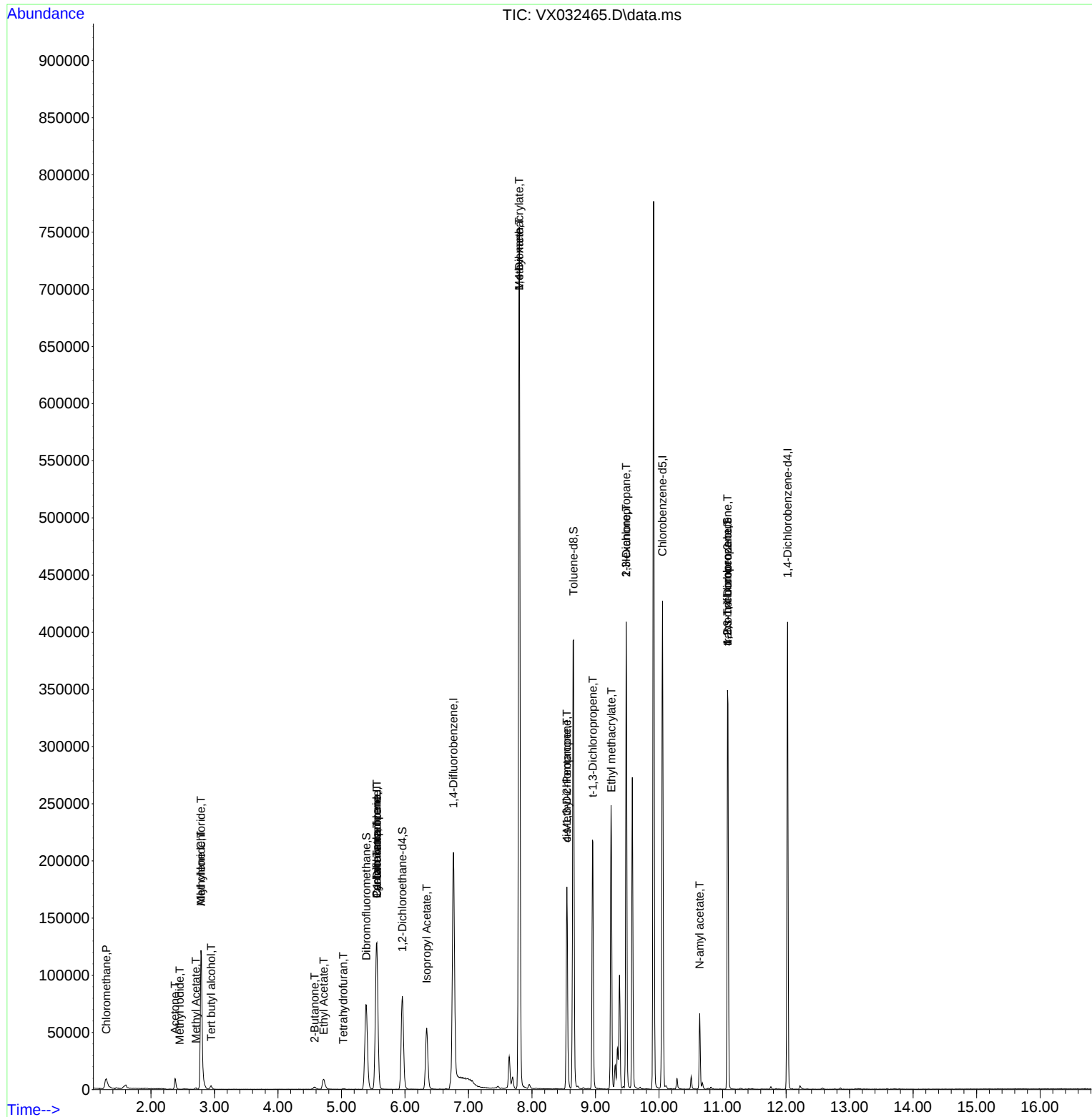
Internal Standards						
1) Pentafluorobenzene	5.556	168	120887	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	201597	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	177697	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	81629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	80885	48.155	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.300%		
35) Dibromofluoromethane	5.391	113	64208	44.651	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	89.300%		
50) Toluene-d8	8.653	98	236522	47.302	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	94.600%		
62) 4-Bromofluorobenzene	11.079	95	89833	45.992	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.980%		
Target Compounds					Qvalue	
3) Chloromethane	1.294	50	500	0.424	ug/l #	43
10) Methyl Iodide	2.453	142	51	1.950	ug/l #	37
11) Tert butyl alcohol	2.946	59	2110	8.631	ug/l #	72
14) Allyl chloride	2.788	41	1957	1.013	ug/l #	20
16) Acetone	2.380	43	9796	16.046	ug/l	99
18) Methyl Acetate	2.709	43	1506	0.759	ug/l	98
20) Methylene Chloride	2.788	84	59922	42.809	ug/l	98
25) 2-Butanone	4.574	43	2847	3.010	ug/l	100
29) Tetrahydrofuran	5.025	42	255	0.423	ug/l #	38
31) Cyclohexane	5.556	56	2698	1.325	ug/l #	1
36) 1,1-Dichloropropene	5.556	75	9621	4.804	ug/l #	49
37) Ethyl Acetate	4.721	43	15883	7.620	ug/l	100
38) Carbon Tetrachloride	5.556	117	12659	5.700	ug/l #	15
43) Isopropyl Acetate	6.342	43	72770	22.738	ug/l	99
48) Methyl methacrylate	7.799	41	68456	41.416	ug/l #	44
49) 1,4-Dioxane	7.799	88	77	2.444	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	60755	30.138	ug/l #	49
53) t-1,3-Dichloropropene	8.958	75	445	0.206	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	26933	11.673	ug/l #	64
56) Ethyl methacrylate	9.250	69	549	0.245	ug/l #	1
57) 1,3-Dichloropropane	9.482	76	3539	1.407	ug/l #	42
59) 2-Hexanone	9.482	43	48052	32.125	ug/l #	51
74) N-amyl acetate	10.640	43	16219	6.636	ug/l #	52
76) 1,2,3-Trichloropropane	11.079	75	49199	27.091	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	49199	86.205	ug/l #	6

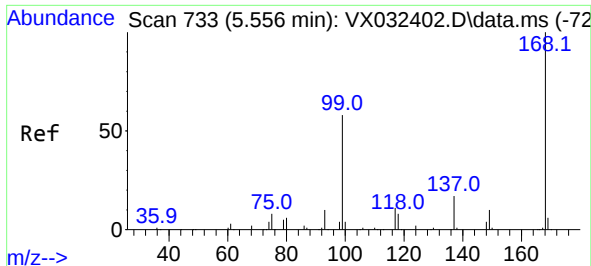
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TCLP-VOC-GRAB-7-SW-QUARTER

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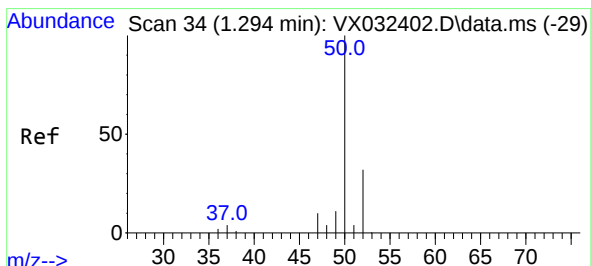
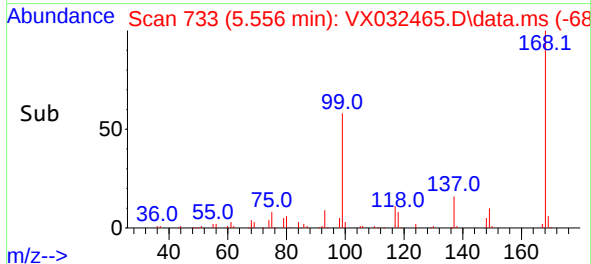
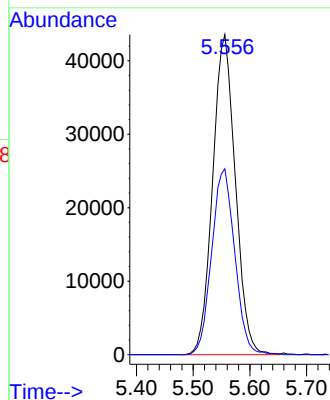
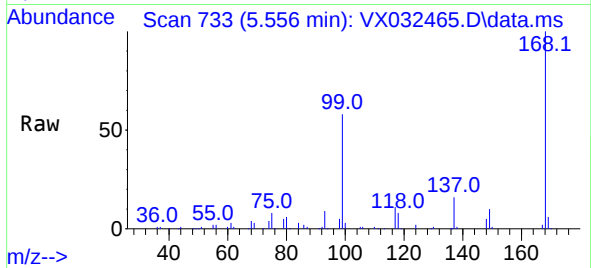




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

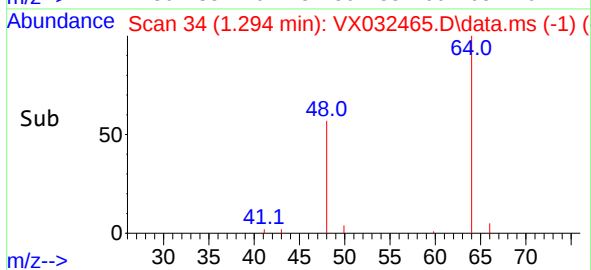
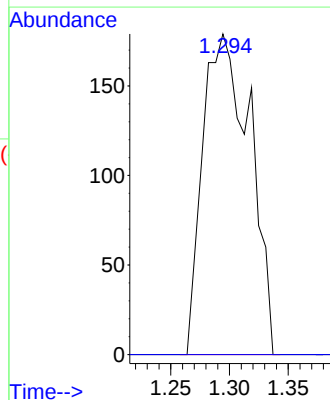
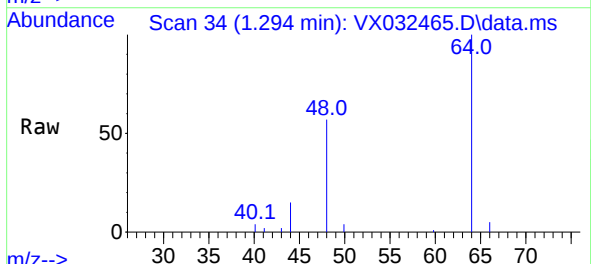
Instrument : MSVOA_X
ClientSampleId : TCLP-VOC-GRAB-7-SW-QUARTER

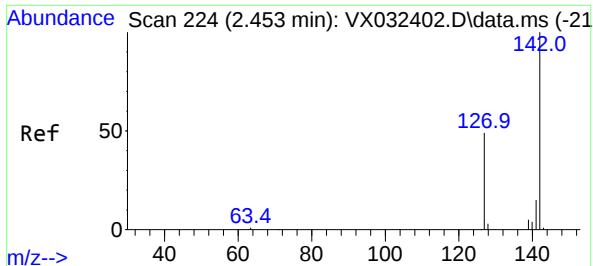
Tgt Ion:168 Resp: 120887
Ion Ratio Lower Upper
168 100
99 58.1 46.1 69.1



#3
Chloromethane
Concen: 0.424 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Tgt Ion: 50 Resp: 500
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

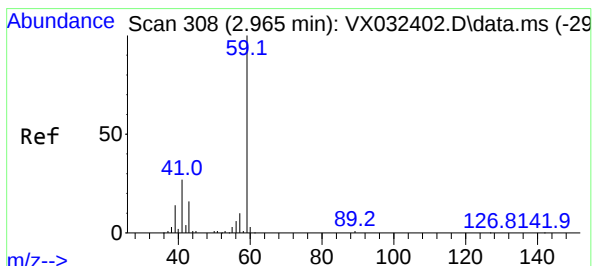
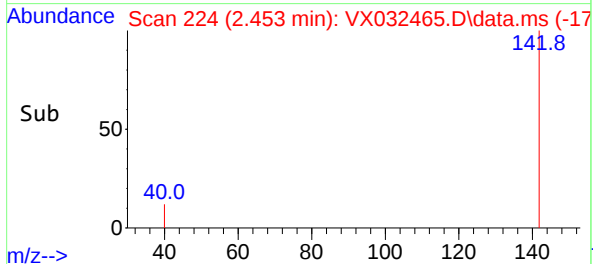
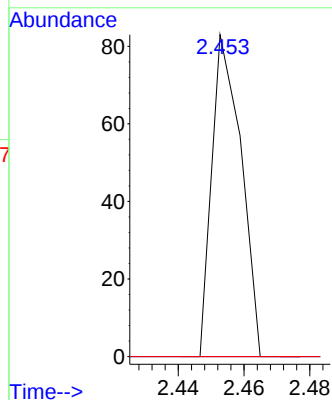
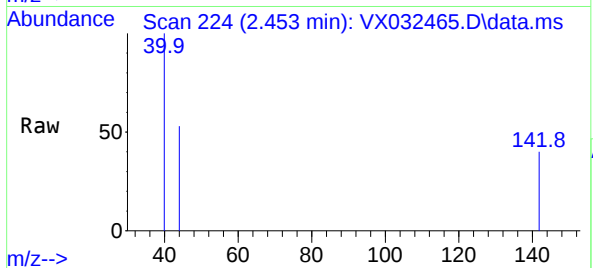




#10
Methyl Iodide
Concen: 1.950 ug/l
RT: 2.453 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

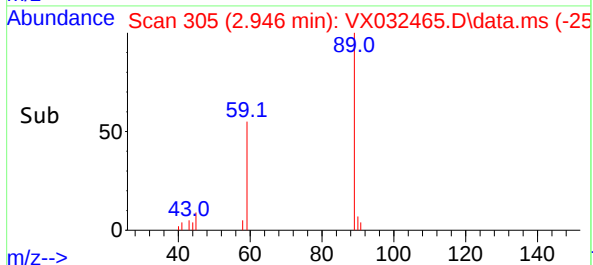
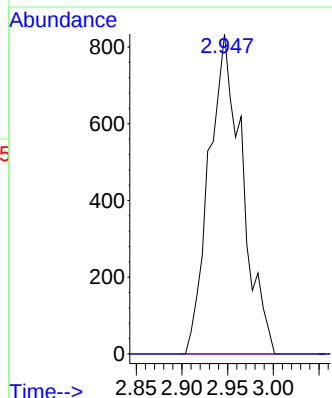
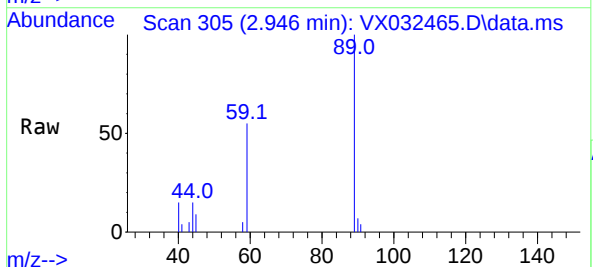
Instrument : MSVOA_X
ClientSampleId : TCLP-VOC-GRAB-7-SW-QUARTER

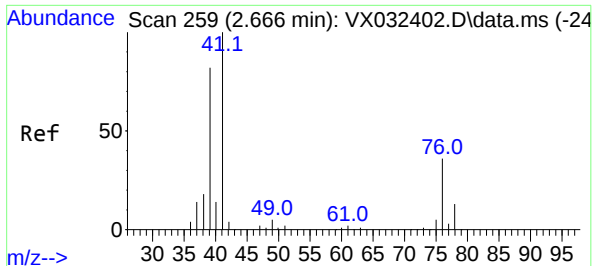
Tgt Ion:142 Resp: 51
Ion Ratio Lower Upper
142 100
127 0.0 38.6 57.8#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 8.631 ug/l
RT: 2.946 min Scan# 305
Delta R.T. -0.018 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Tgt Ion: 59 Resp: 2110
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#14

Allyl chloride

Concen: 1.013 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.122 min

Lab File: VX032465.D

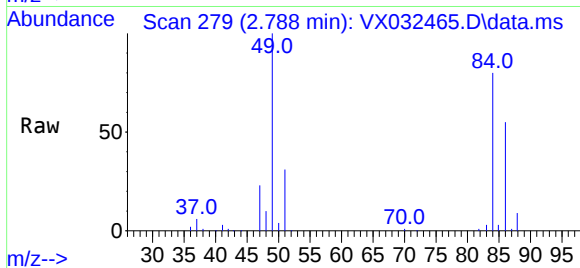
Acq: 28 Oct 2022 17:22

Instrument :

MSVOA_X

ClientSampleId :

TCLP-VOC-GRAB-7-SW-QUARTER



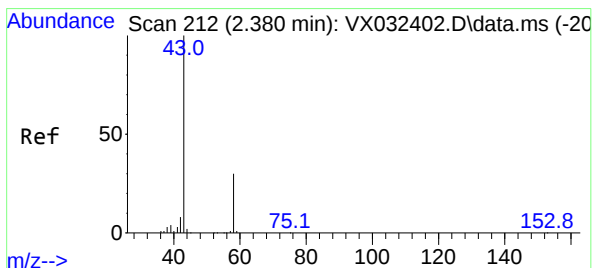
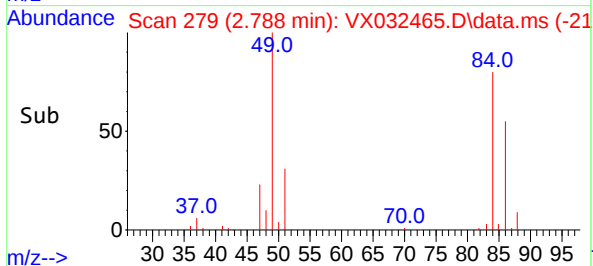
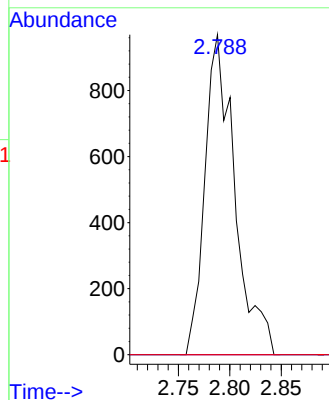
Tgt Ion: 41 Resp: 1957

Ion Ratio Lower Upper

41 100

39 0.0 61.4 92.2#

76 0.0 29.2 43.8#



#16

Acetone

Concen: 16.046 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX032465.D

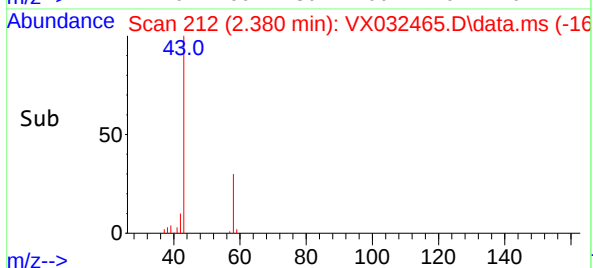
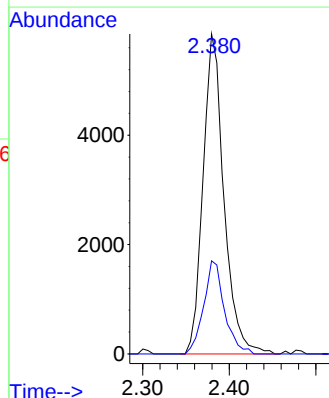
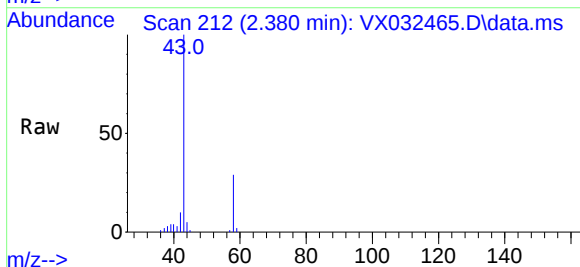
Acq: 28 Oct 2022 17:22

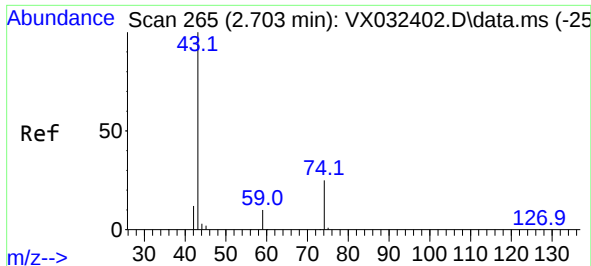
Tgt Ion: 43 Resp: 9796

Ion Ratio Lower Upper

43 100

58 29.1 23.8 35.8

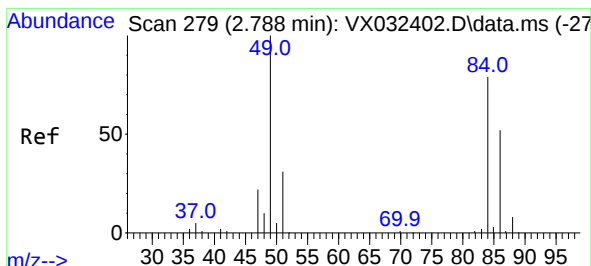
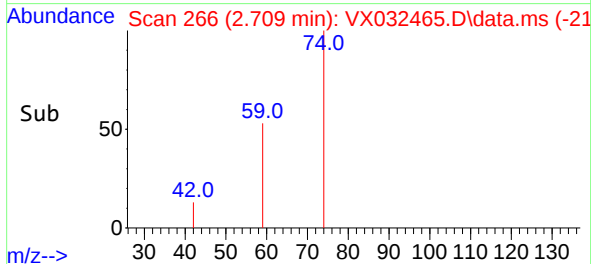
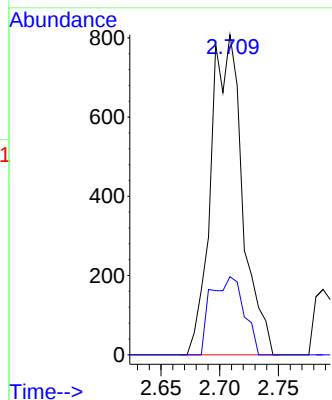
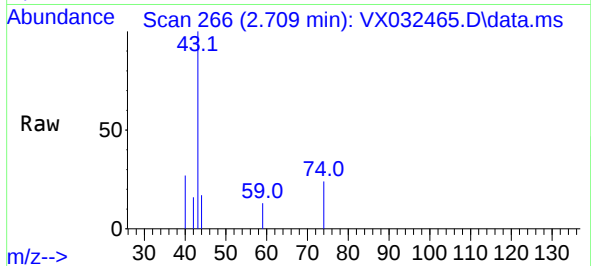




#18
Methyl Acetate
Concen: 0.759 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

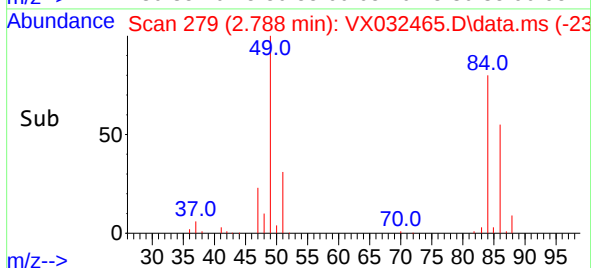
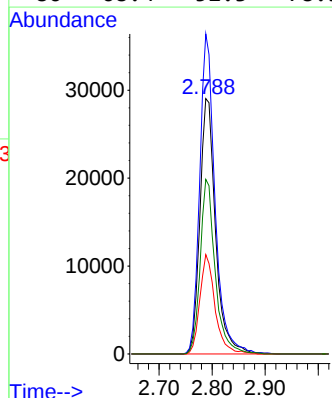
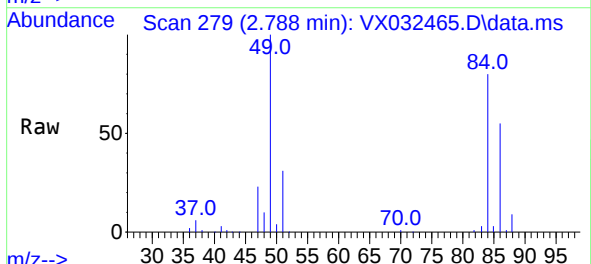
Instrument :
MSVOA_X
ClientSampleId :
TCLP-VOC-GRAB-7-SW-QUARTER

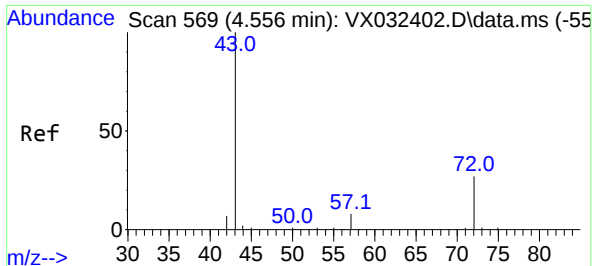
Tgt Ion: 43 Resp: 1506
Ion Ratio Lower Upper
43 100
74 25.4 19.4 29.0



#20
Methylene Chloride
Concen: 42.809 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Tgt Ion: 84 Resp: 59922
Ion Ratio Lower Upper
84 100
49 125.3 101.0 151.6
51 38.9 31.1 46.7
86 68.4 52.3 78.5





#25

2-Butanone

Concen: 3.010 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX032465.D

Acq: 28 Oct 2022 17:22

Instrument :

MSVOA_X

ClientSampleId :

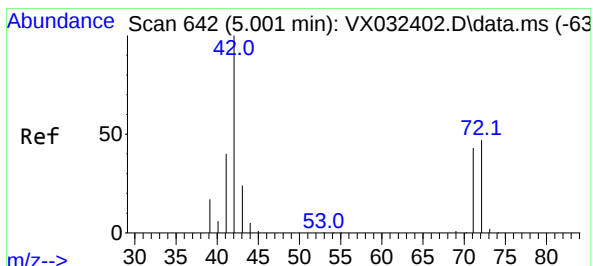
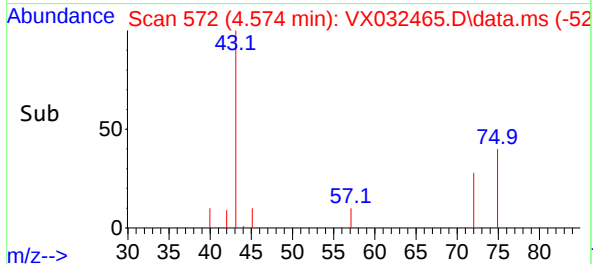
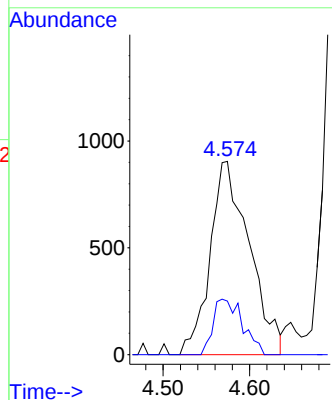
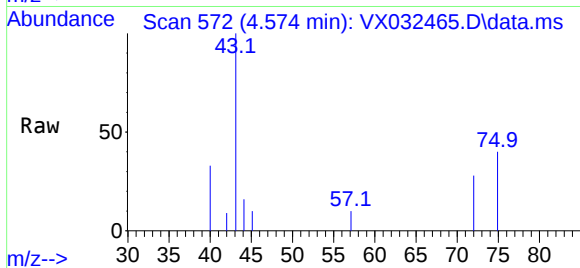
TCLP-VOC-GRAB-7-SW-QUARTER

Tgt Ion: 43 Resp: 2847

Ion Ratio Lower Upper

43 100

72 27.7 22.2 33.2



#29

Tetrahydrofuran

Concen: 0.423 ug/l

RT: 5.025 min Scan# 646

Delta R.T. 0.024 min

Lab File: VX032465.D

Acq: 28 Oct 2022 17:22

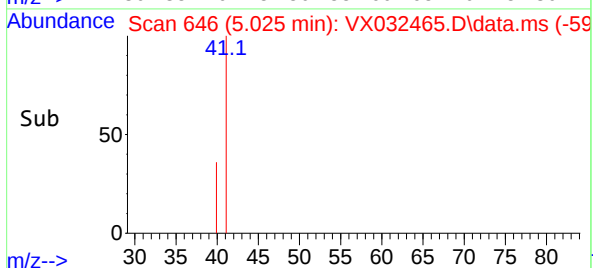
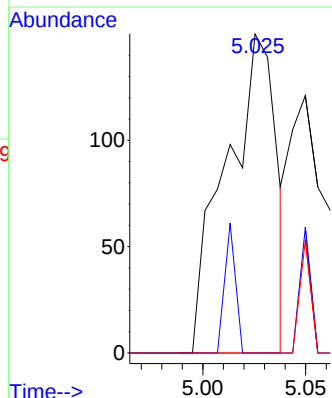
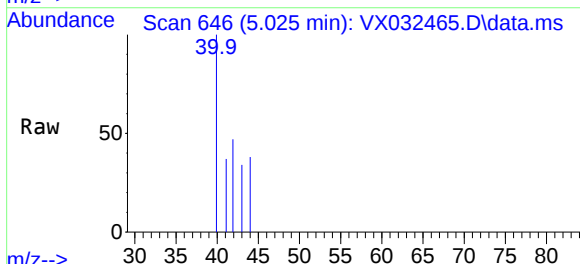
Tgt Ion: 42 Resp: 255

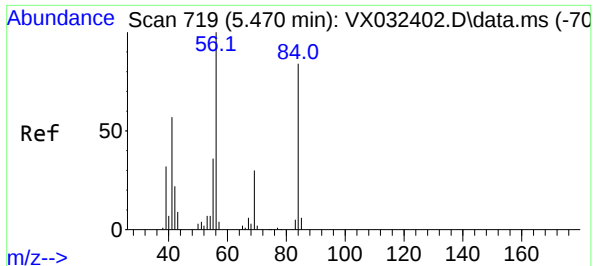
Ion Ratio Lower Upper

42 100

72 8.6 37.6 56.4#

71 0.0 34.7 52.1#

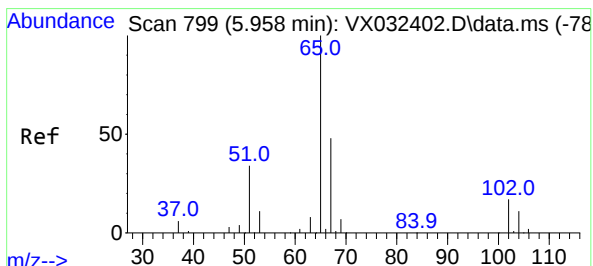
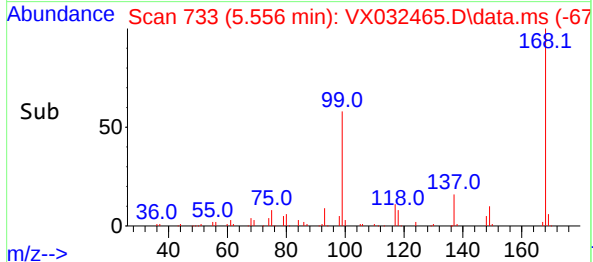
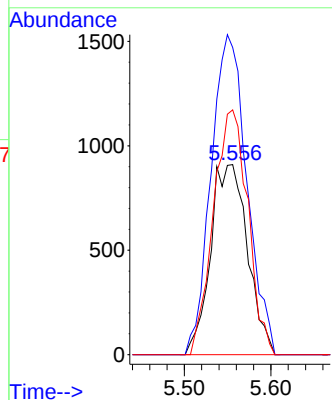
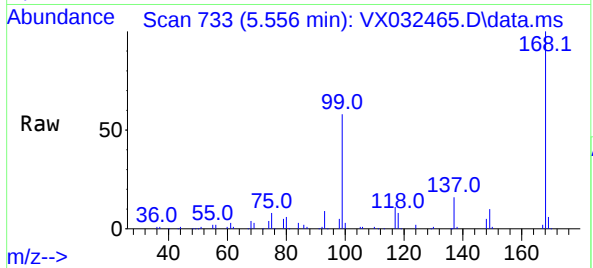




#31
Cyclohexane
Concen: 1.325 ug/l
RT: 5.556 min Scan# 719
Delta R.T. 0.085 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

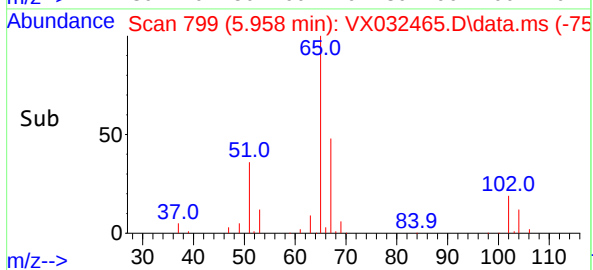
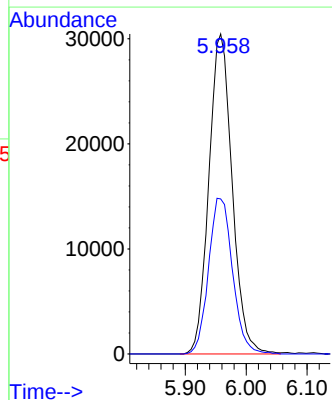
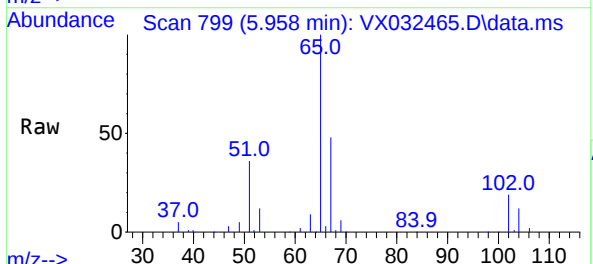
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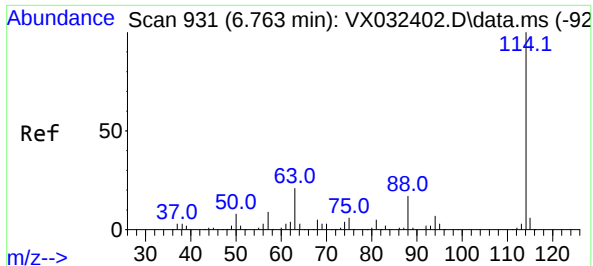
Tgt Ion: 56 Resp: 2698
Ion Ratio Lower Upper
56 100
69 161.6 24.1 36.1#
84 128.8 66.9 100.3#



#33
1,2-Dichloroethane-d4
Concen: 48.155 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Tgt Ion: 65 Resp: 80885
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.8

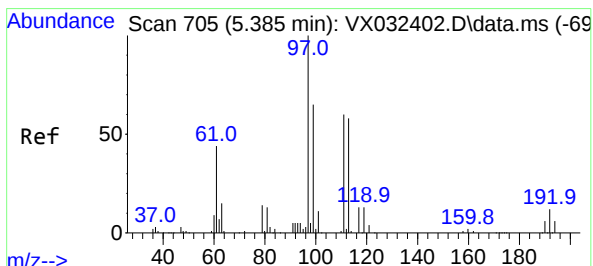
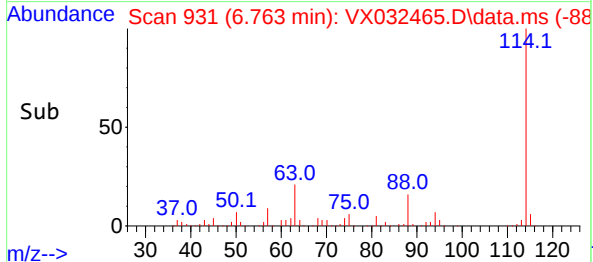
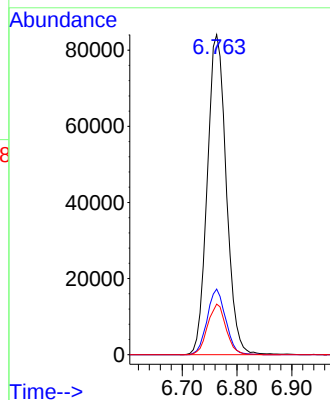
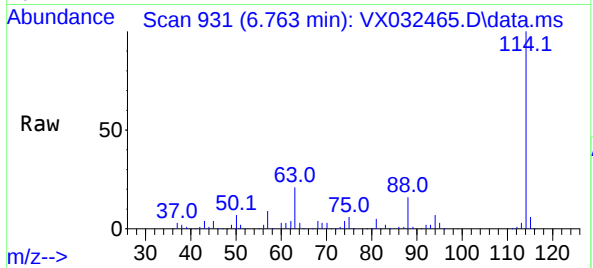




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

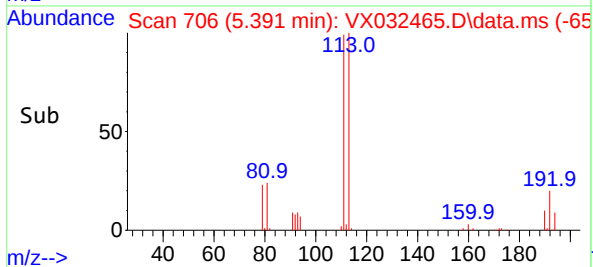
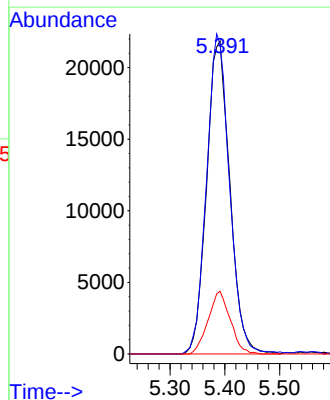
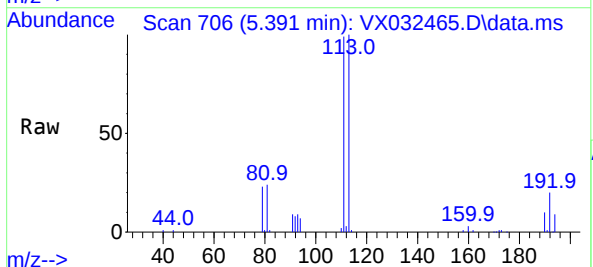
Instrument :
MSVOA_X
ClientSampleId :
TCLP-VOC-GRAB-7-SW-QUARTER

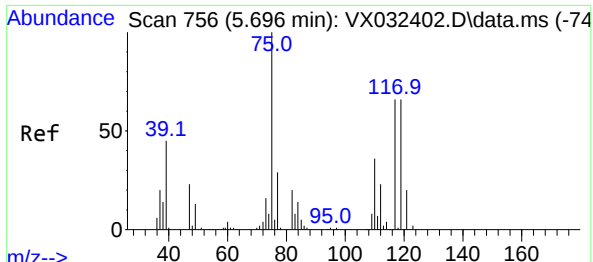
Tgt Ion:114 Resp: 201597
Ion Ratio Lower Upper
114 100
63 20.5 0.0 41.6
88 15.8 0.0 33.4



#35
Dibromofluoromethane
Concen: 44.651 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.006 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Tgt Ion:113 Resp: 64208
Ion Ratio Lower Upper
113 100
111 101.1 82.4 123.6
192 19.0 15.4 23.2

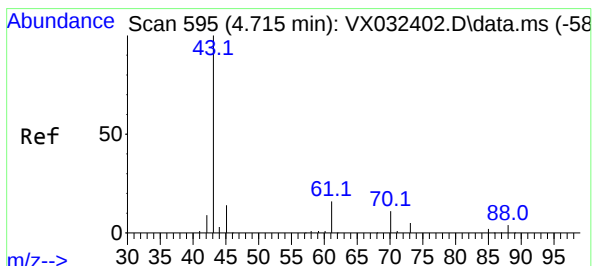
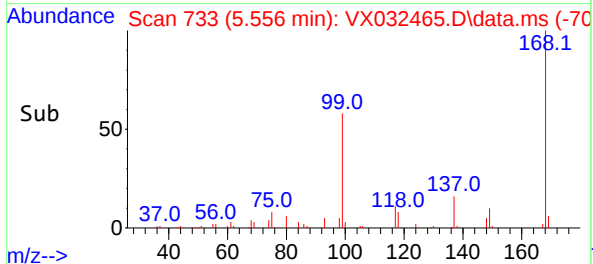
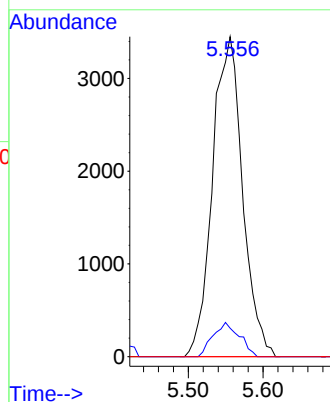
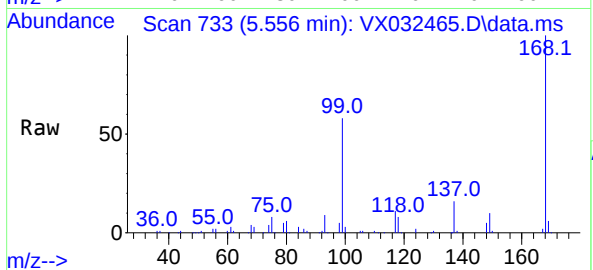




#36
1,1-Dichloropropene
Concen: 4.804 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

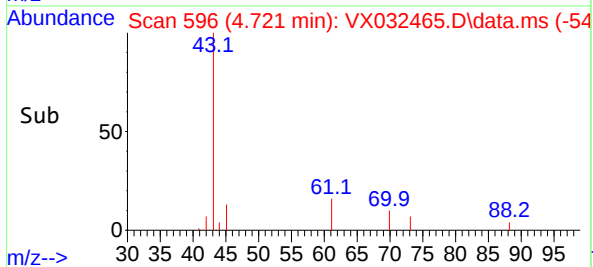
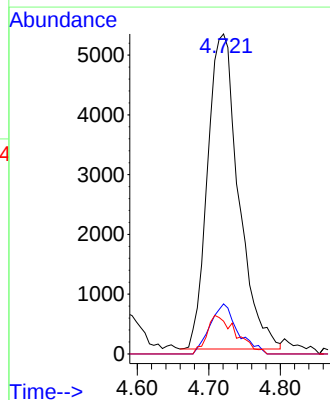
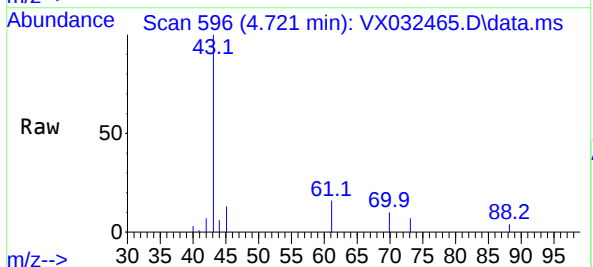
Instrument :
MSVOA_X
ClientSampleId :
TCLP-VOC-GRAB-7-SW-QUARTER

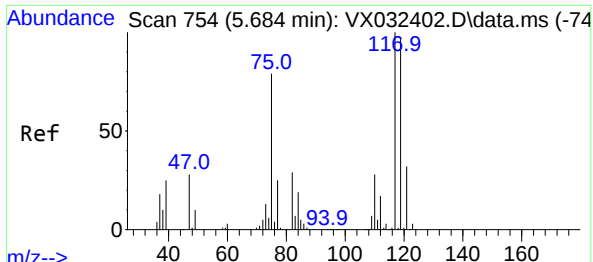
Tgt Ion: 75 Resp: 9621
Ion Ratio Lower Upper
75 100
110 9.4 18.4 55.2#
77 0.0 24.5 36.7#



#37
Ethyl Acetate
Concen: 7.620 ug/l
RT: 4.721 min Scan# 596
Delta R.T. 0.006 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

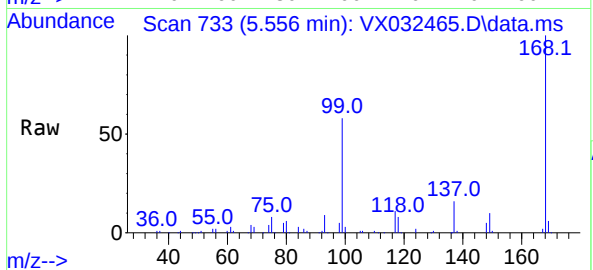
Tgt Ion: 43 Resp: 15883
Ion Ratio Lower Upper
43 100
61 14.2 11.5 17.3
70 11.5 9.1 13.7



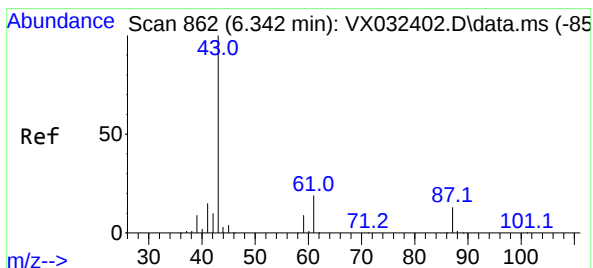
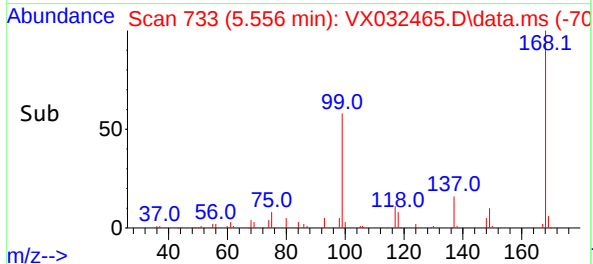
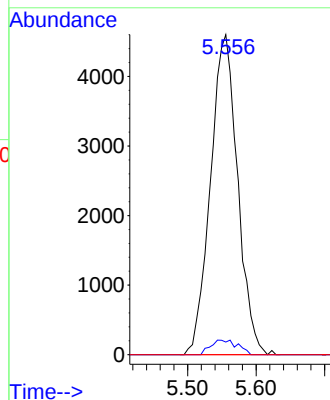


#38
Carbon Tetrachloride
Concen: 5.700 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Instrument :
MSVOA_X
ClientSampleId :
TCLP-VOC-GRAB-7-SW-QUARTER

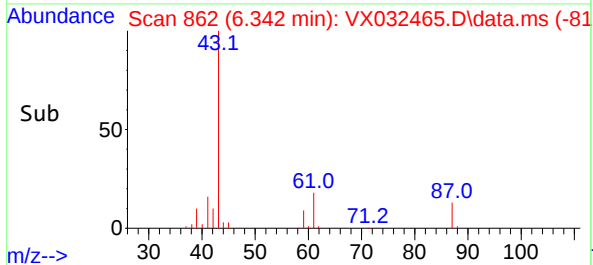
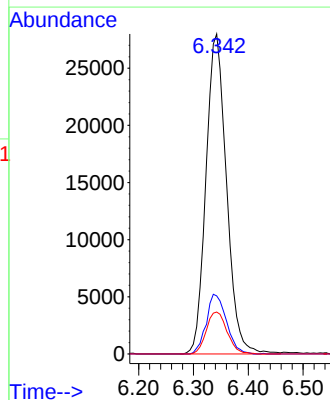
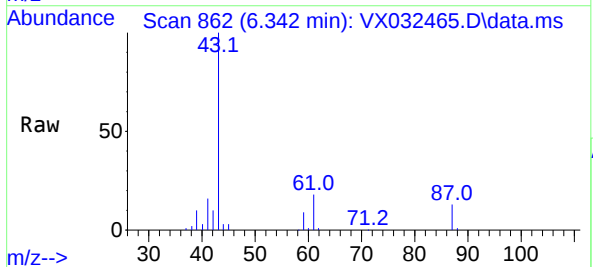


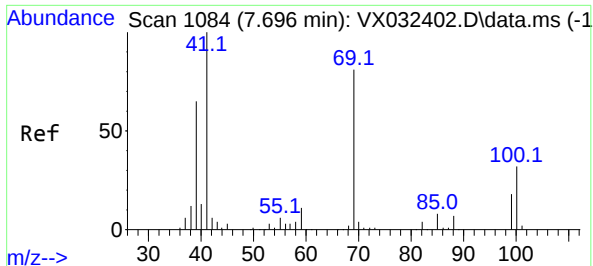
Tgt Ion:117 Resp: 12659
Ion Ratio Lower Upper
117 100
119 4.0 77.2 115.8#
121 0.0 25.8 38.6#



#43
Isopropyl Acetate
Concen: 22.738 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.000 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Tgt Ion: 43 Resp: 72770
Ion Ratio Lower Upper
43 100
61 18.4 15.4 23.0
87 13.2 10.8 16.2





#48

Methyl methacrylate

Concen: 41.416 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX032465.D

Acq: 28 Oct 2022 17:22

Instrument :

MSVOA_X

ClientSampleId :

TCLP-VOC-GRAB-7-SW-QUARTER

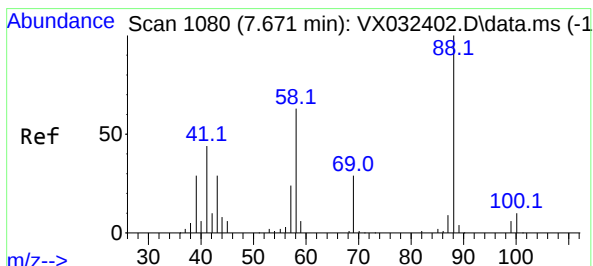
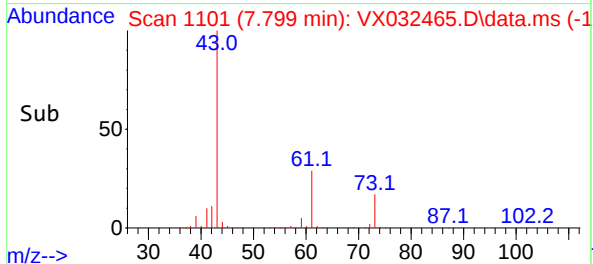
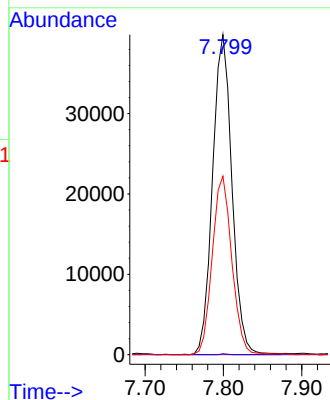
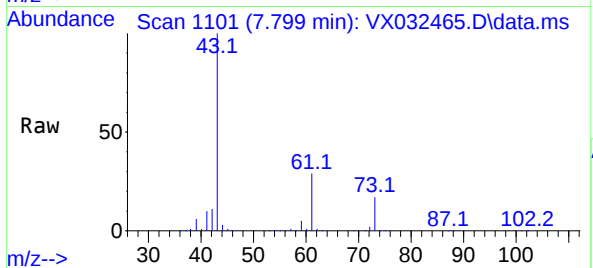
Tgt Ion: 41 Resp: 68456

Ion Ratio Lower Upper

41 100

69 0.1 65.1 97.7#

39 56.2 51.9 77.9



#49

1,4-Dioxane

Concen: 2.444 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.128 min

Lab File: VX032465.D

Acq: 28 Oct 2022 17:22

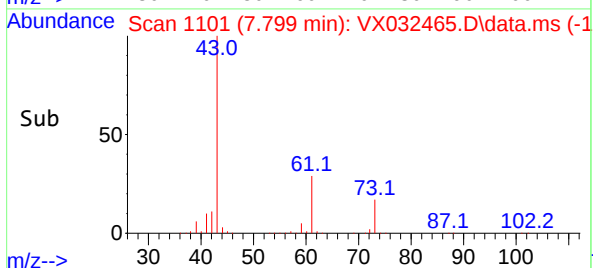
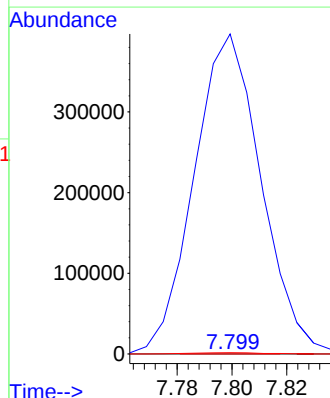
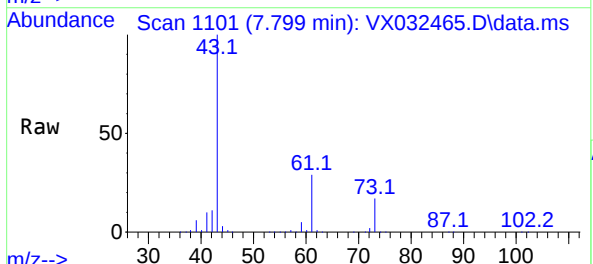
Tgt Ion: 88 Resp: 77

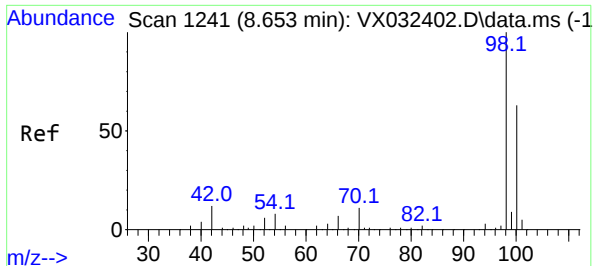
Ion Ratio Lower Upper

88 100

43 881119.5 26.6 39.8#

58 3636.4 51.7 77.5#





#50

Toluene-d8

Concen: 47.302 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX032465.D

Acq: 28 Oct 2022 17:22

Instrument :

MSVOA_X

ClientSampleId :

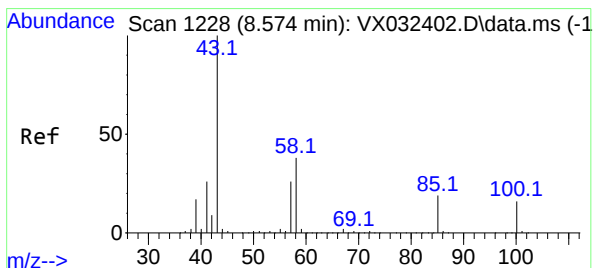
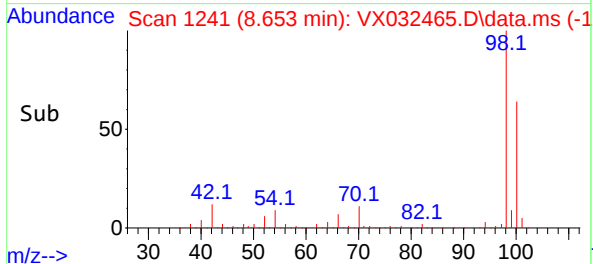
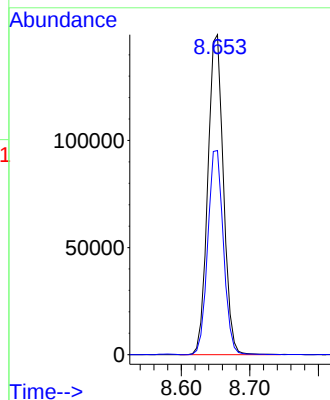
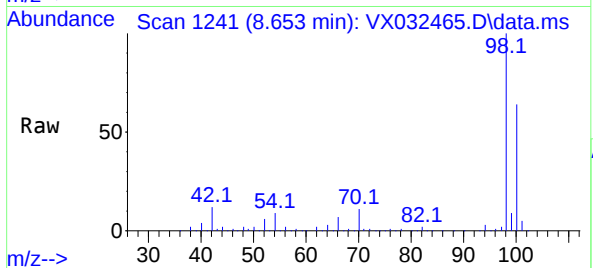
TCLP-VOC-GRAB-7-SW-QUARTER

Tgt Ion: 98 Resp: 236522

Ion Ratio Lower Upper

98 100

100 64.1 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 30.138 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. -0.024 min

Lab File: VX032465.D

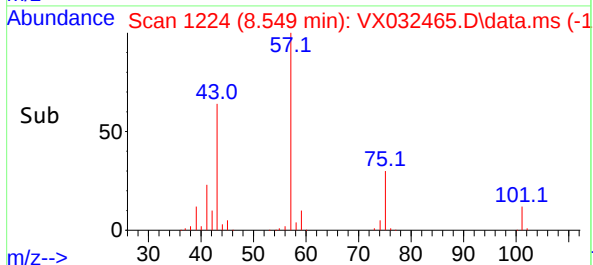
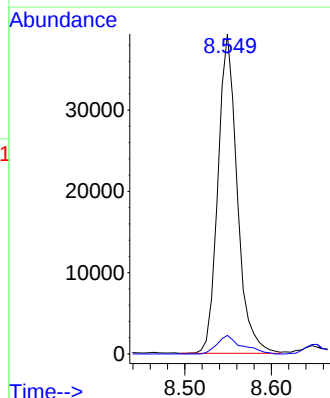
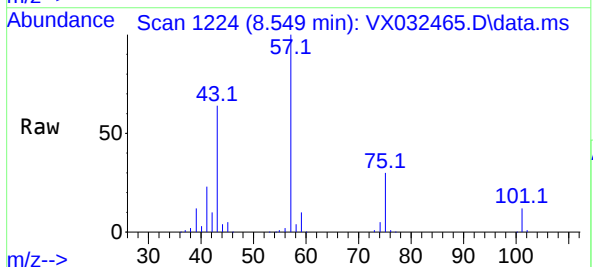
Acq: 28 Oct 2022 17:22

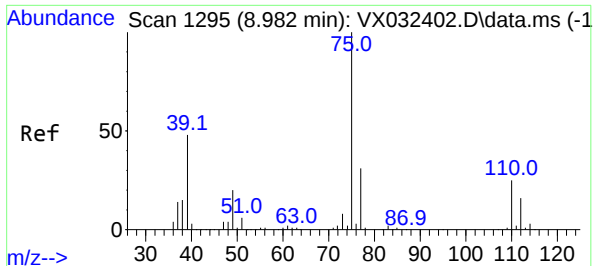
Tgt Ion: 43 Resp: 60755

Ion Ratio Lower Upper

43 100

58 7.4 30.9 46.3#





#53

t-1,3-Dichloropropene

Concen: 0.206 ug/l

RT: 8.958 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX032465.D

Acq: 28 Oct 2022 17:22

Instrument :

MSVOA_X

ClientSampleId :

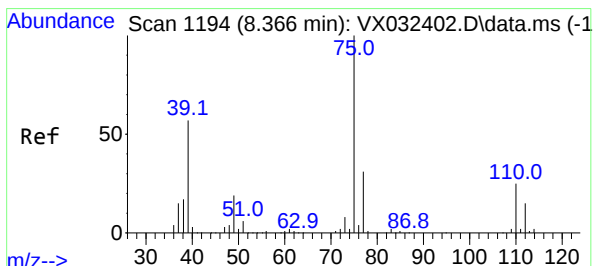
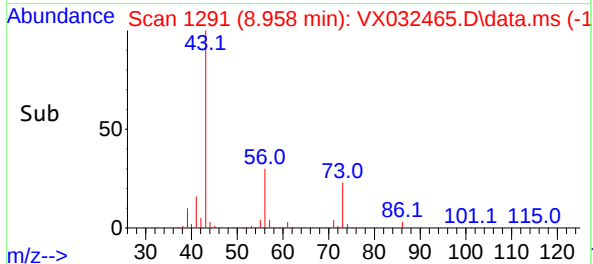
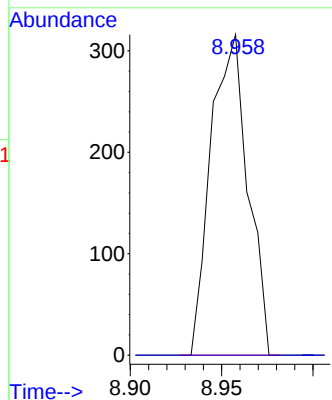
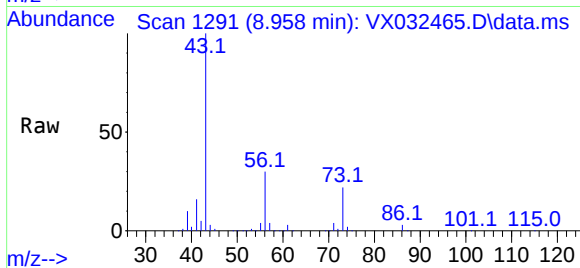
TCLP-VOC-GRAB-7-SW-QUARTER

Tgt Ion: 75 Resp: 445

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#



#54

cis-1,3-Dichloropropene

Concen: 11.673 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX032465.D

Acq: 28 Oct 2022 17:22

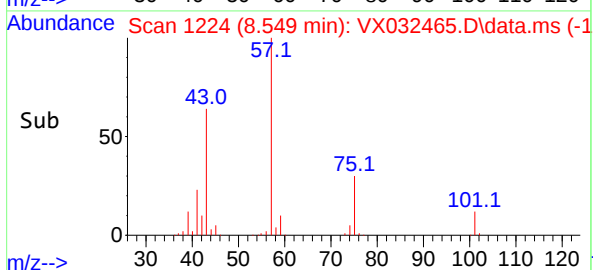
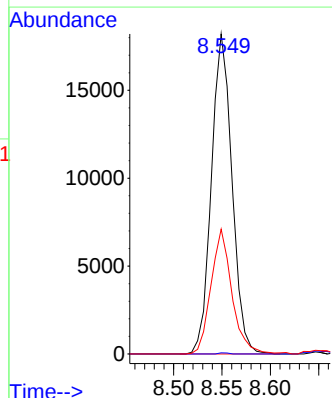
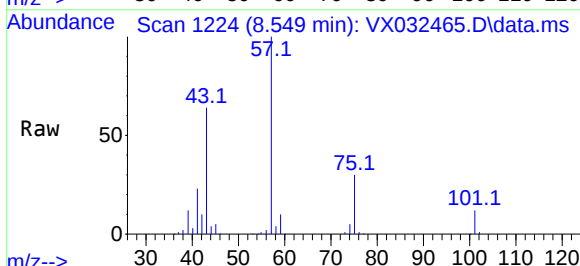
Tgt Ion: 75 Resp: 26933

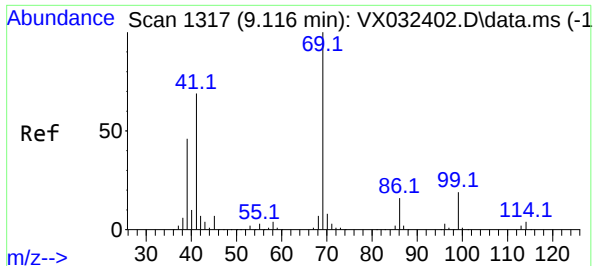
Ion Ratio Lower Upper

75 100

77 0.4 25.1 37.7#

39 39.0 45.5 68.3#

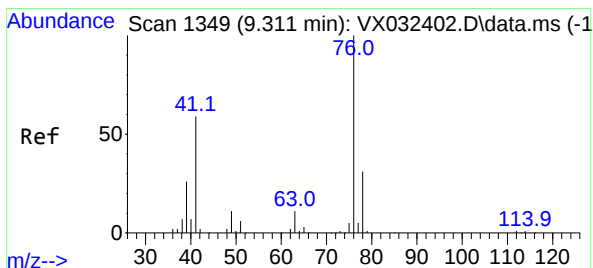
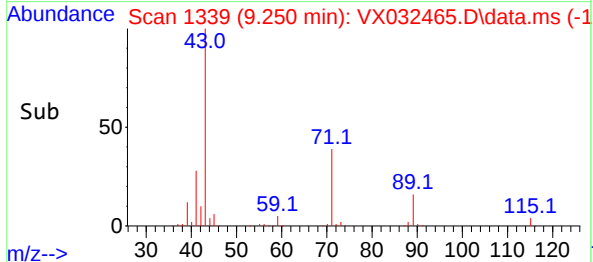
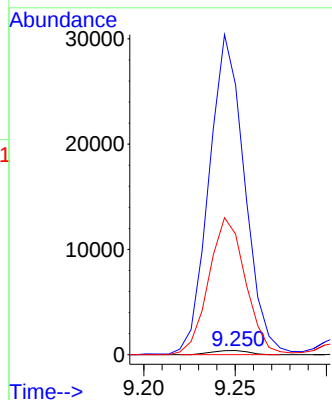
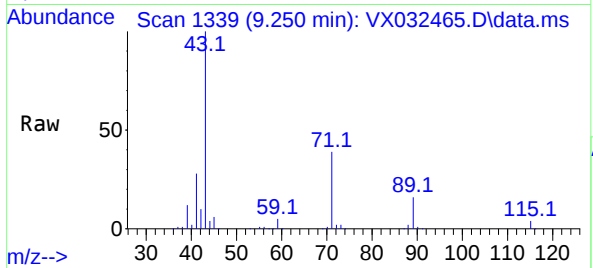




#56
Ethyl methacrylate
Concen: 0.245 ug/l
RT: 9.250 min Scan# 11
Delta R.T. 0.134 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

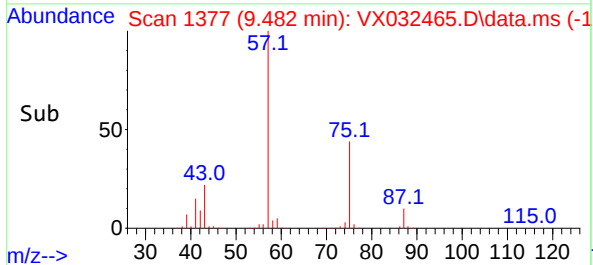
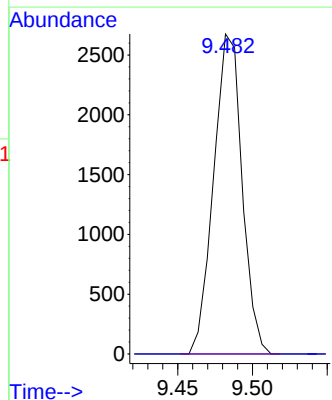
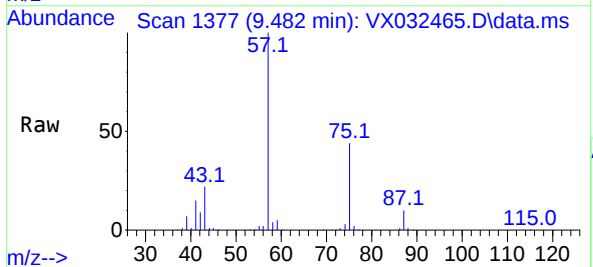
Instrument :
MSVOA_X
ClientSampleId :
TCLP-VOC-GRAB-7-SW-QUARTER

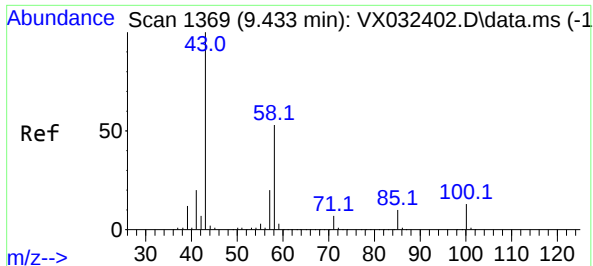
Tgt Ion: 69 Resp: 549
Ion Ratio Lower Upper
69 100
41 7557.6 54.3 81.5#
39 3332.1 35.2 52.8#



#57
1,3-Dichloropropane
Concen: 1.407 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.171 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Tgt Ion: 76 Resp: 3539
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#





#59

2-Hexanone

Concen: 32.125 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.049 min

Lab File: VX032465.D

Acq: 28 Oct 2022 17:22

Instrument :

MSVOA_X

ClientSampleId :

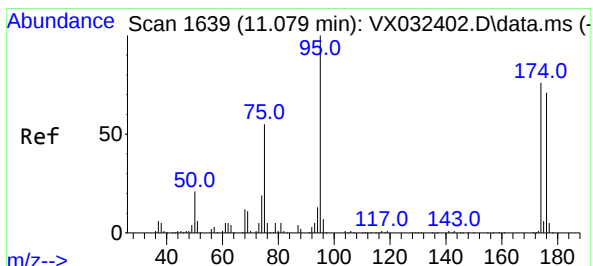
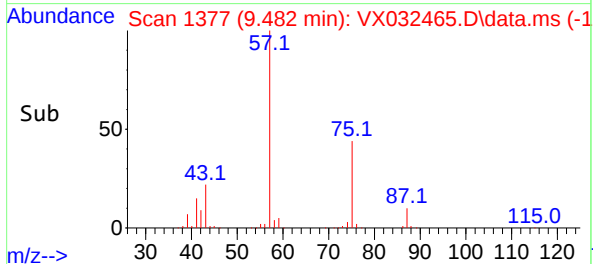
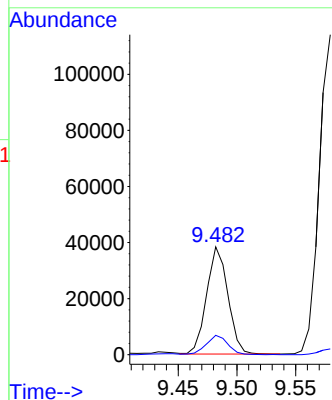
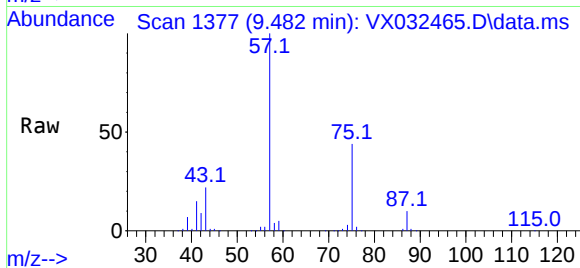
TCLP-VOC-GRAB-7-SW-QUARTER

Tgt Ion: 43 Resp: 48052

Ion Ratio Lower Upper

43 100

58 18.6 26.5 79.5#



#62

4-Bromofluorobenzene

Concen: 45.992 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX032465.D

Acq: 28 Oct 2022 17:22

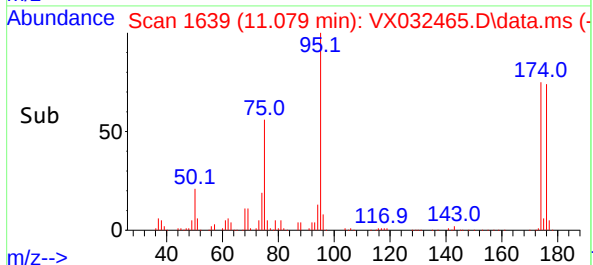
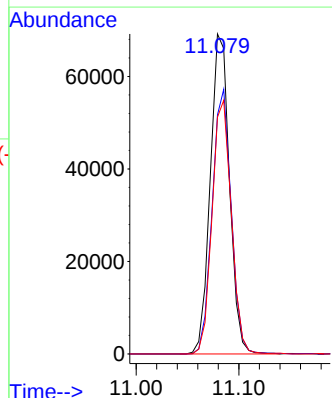
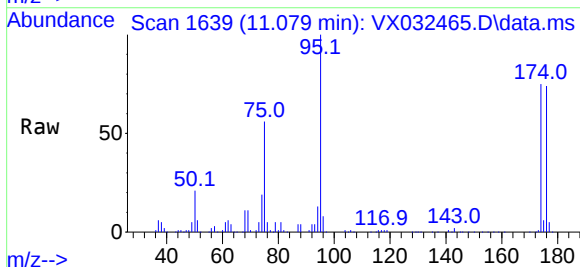
Tgt Ion: 95 Resp: 89833

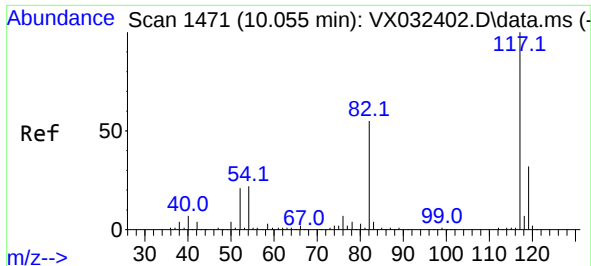
Ion Ratio Lower Upper

95 100

174 82.0 0.0 164.0

176 79.5 0.0 154.4

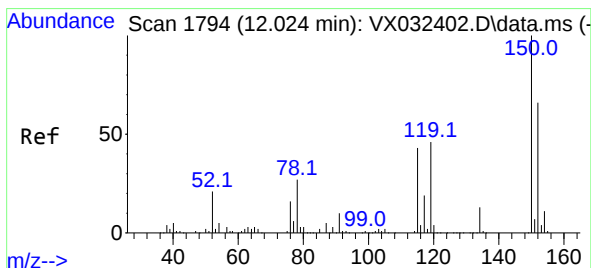
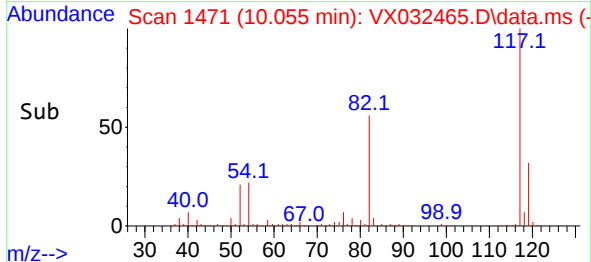
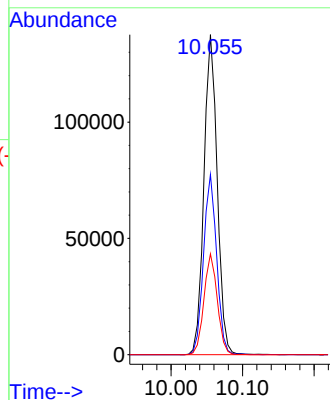
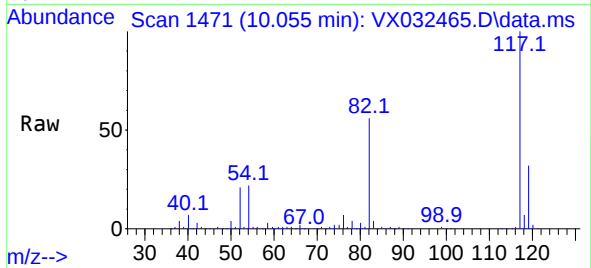




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

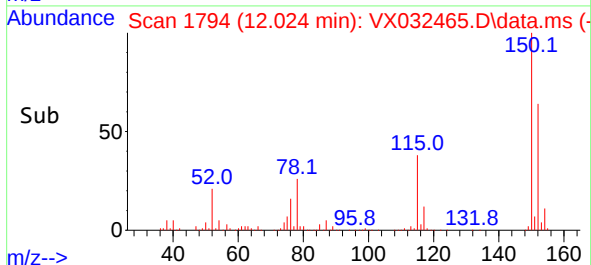
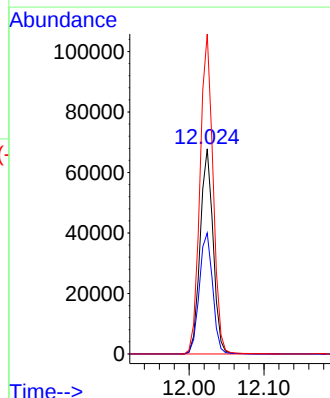
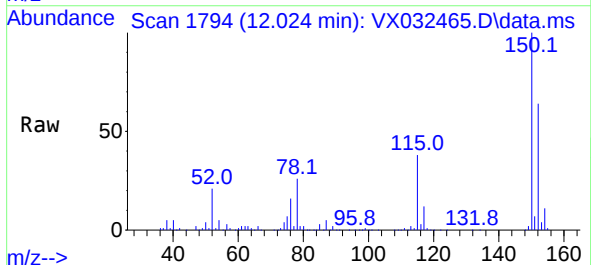
Instrument : MSVOA_X
ClientSampleId : TCLP-VOC-GRAB-7-SW-QUARTER

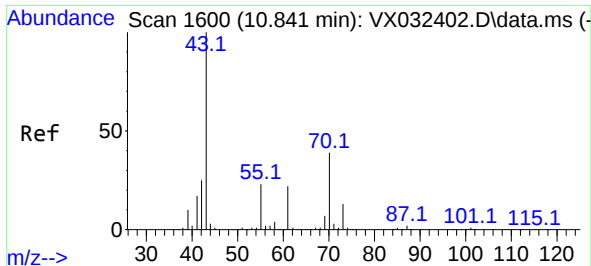
Tgt Ion:117 Resp: 177697
Ion Ratio Lower Upper
117 100
82 56.3 44.3 66.5
119 31.5 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Tgt Ion:152 Resp: 81629
Ion Ratio Lower Upper
152 100
115 60.7 44.0 132.0
150 157.0 0.0 351.8

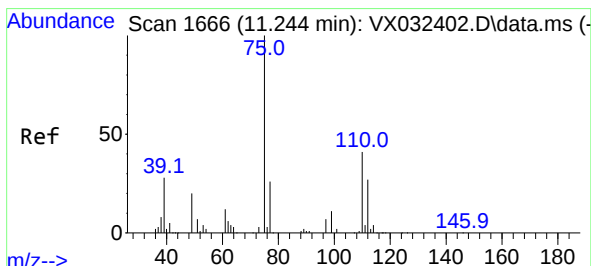
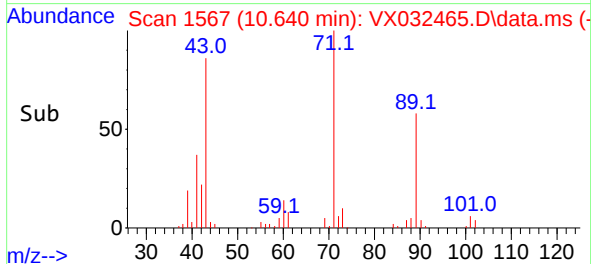
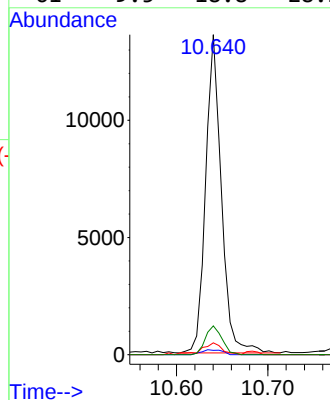
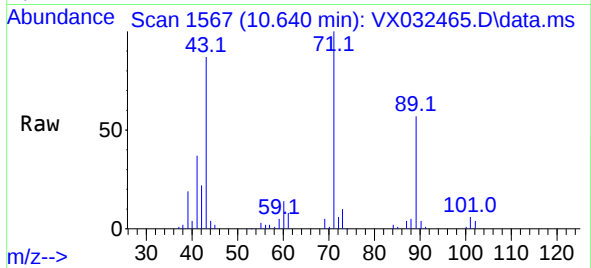




#74
N-amy1 acetate
Concen: 6.636 ug/l
RT: 10.640 min Scan# 16219
Delta R.T. -0.201 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

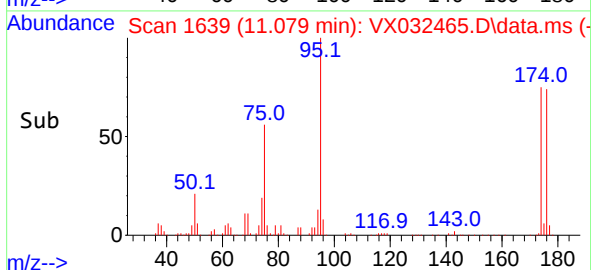
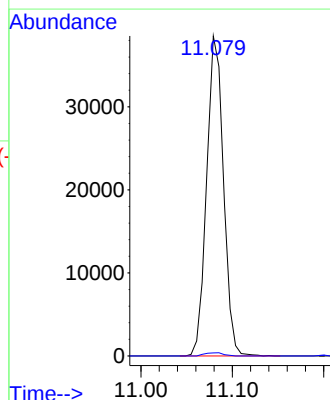
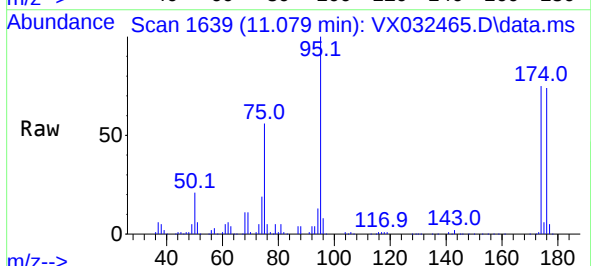
Instrument : MSVOA_X
ClientSampleId : TCLP-VOC-GRAB-7-SW-QUARTER

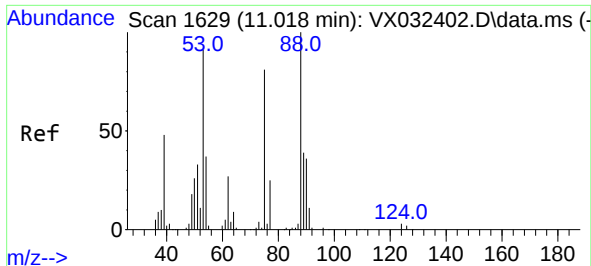
Tgt Ion:	43	Resp:	16219
Ion	Ratio	Lower	Upper
43	100		
70	2.0	33.6	50.4#
55	4.9	19.4	29.2#
61	9.5	18.8	28.2#



#76
1,2,3-Trichloropropane
Concen: 27.091 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.165 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Tgt Ion:	75	Resp:	49199
Ion	Ratio	Lower	Upper
75	100		
77	1.1	20.0	60.0#





#81
trans-1,4-Dichloro-2-butene
Concen: 86.205 ug/l
RT: 11.079 min Scan# 10
Delta R.T. 0.061 min
Lab File: VX032465.D
Acq: 28 Oct 2022 17:22

Instrument :
MSVOA_X
ClientSampleId :
TCLP-VOC-GRAB-7-SW-QUARTER

Tgt Ion: 75 Resp: 49199
Ion Ratio Lower Upper
75 100
53 0.0 86.9 130.3#
89 0.0 38.3 57.5#

