

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091619\
 Data File : VV012839.D
 Acq On : 16 Sep 2019 16:19
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 16 17:31:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091619WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 16 17:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	429563	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	425570	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	212089	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	124219	4.17	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.40%
7) Chloroethane-d5	1.58	69	99790	4.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.60%
11) 1,1-Dichloroethene-d2	2.13	63	213509	4.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.60%
20) 2-Butanone-d5	3.99	46	239271	58.19	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	116.38%
24) Chloroform-d	4.40	84	214530	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.08	65	100486	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
32) Benzene-d6	5.09	84	418111	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
36) 1,2-Dichloropropane-d6	6.12	67	124432	4.40	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.00%
41) Toluene-d8	7.36	98	390303	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.60%
43) trans-1,3-Dichloropropene-	7.66	79	43384	4.75	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.00%
46) 2-Hexanone-d5	8.14	63	132041	51.52	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.04%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	77037	4.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	99.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	132850	4.52	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	148066	4.565	ug/L 100
3) Chloromethane	1.25	50	137118	4.352	ug/L 95
5) Vinyl chloride	1.32	62	159794	4.523	ug/L 99
6) Bromomethane	1.53	94	82140	4.523	ug/L 97
8) Chloroethane	1.60	64	85507	4.486	ug/L 99
9) Trichlorofluoromethane	1.77	101	198456	4.594	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	118204	4.628	ug/L 99
12) 1,1-Dichloroethene	2.14	96	105789	4.509	ug/L 89
13) Acetone	2.25	43	209898	65.873	ug/L 62
14) Carbon disulfide	2.31	76	225961	4.472	ug/L 99
15) Methyl Acetate	2.48	43	58686	6.372	ug/L 93
16) Methylene chloride	2.53	84	122997	4.406	ug/L 99
17) Methyl tert-butyl Ether	2.81	73	297871	4.859	ug/L 98
18) trans-1,2-Dichloroethene	2.78	96	114032	4.452	ug/L 98
19) 1,1-Dichloroethane	3.23	63	243418	4.611	ug/L 100
21) 2-Butanone	4.07	43	374576	64.440	ug/L 99
22) cis-1,2-Dichloroethene	3.96	96	132741	4.695	ug/L 95

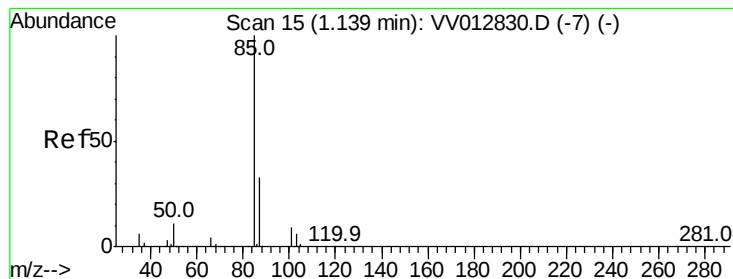
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091619\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Sep 16 17:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	59426	4.841	ug/L	99
25) Chloroform	4.42	83	263367	4.468	ug/L	97
27) 1,2-Dichloroethane	5.18	62	150015	4.915	ug/L	100
29) 1,1,1-Trichloroethane	4.65	97	201591	4.613	ug/L	100
30) Cyclohexane	4.72	56	171366	4.631	ug/L	99
31) Carbon tetrachloride	4.87	117	169218	4.566	ug/L	100
33) Benzene	5.14	78	512135	4.762	ug/L	100
34) Trichloroethene	5.96	95	141878	4.623	ug/L	97
35) Methylcyclohexane	6.17	83	180017	4.774	ug/L	97
37) 1,2-Dichloropropane	6.22	63	140472	4.854	ug/L	98
38) Bromodichloromethane	6.55	83	176779	4.722	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	173222	4.830	ug/L	100
40) 4-Methyl-2-pentanone	7.28	43	907267	56.706	ug/L	96
42) Toluene	7.43	91	551396	5.015	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	138747	4.865	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	100627	4.885	ug/L	97
47) Tetrachloroethene	8.02	164	106971	4.760	ug/L	95
48) 2-Hexanone	8.19	43	691708	56.714	ug/L	99
49) Dibromochloromethane	8.29	129	115947	4.922	ug/L	99
50) 1,2-Dibromoethane	8.40	107	86149	5.024	ug/L	99
51) Chlorobenzene	8.92	112	363359	4.783	ug/L	99
52) Ethylbenzene	9.05	91	570121	4.862	ug/L	100
53) m,p-xylene	9.18	106	216262	4.964	ug/L	96
54) o-xylene	9.59	106	212082	5.006	ug/L	99
55) Styrene	9.60	104	381558	5.309	ug/L	100
56) Isopropylbenzene	9.97	105	575886	5.070	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	96699	5.034	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	85763	5.002	ug/L	99
61) Bromoform	9.77	173	61141	4.626	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	288869	4.762	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	290668	4.632	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	278315	4.736	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.48	75	12855	4.563	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	211895	4.539	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	167342	4.780	ug/L	99
69) Naphthalene	13.55	128	235994	4.715	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	166108	4.887	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.565 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Instrument :

MSVOA_V

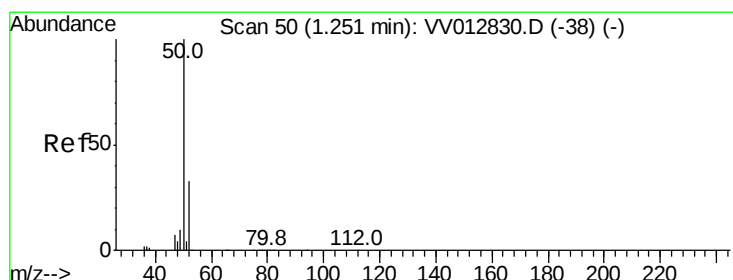
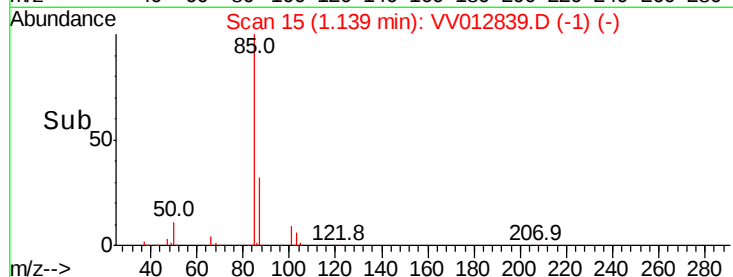
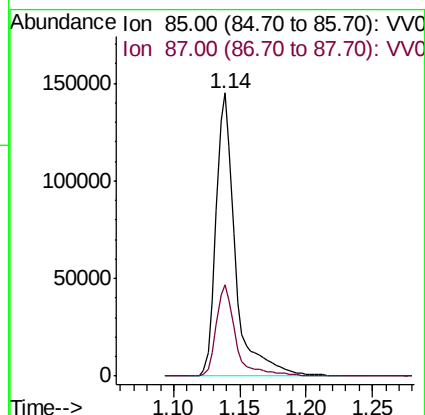
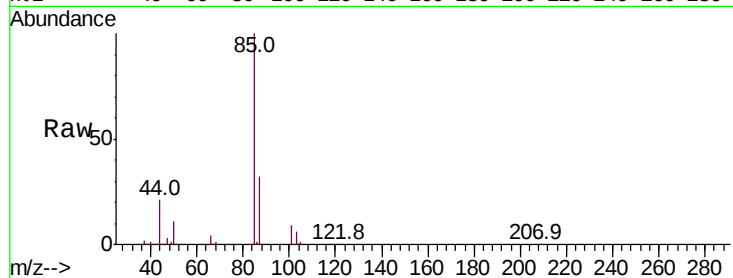
ClientSampleId :

Tot Ion: 85 Resp: 148066

Ion Ratio Lower Upper

85 100

87 32.6 26.0 39.0



#3

Chloromethane

Concen: 4.352 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV012839.D

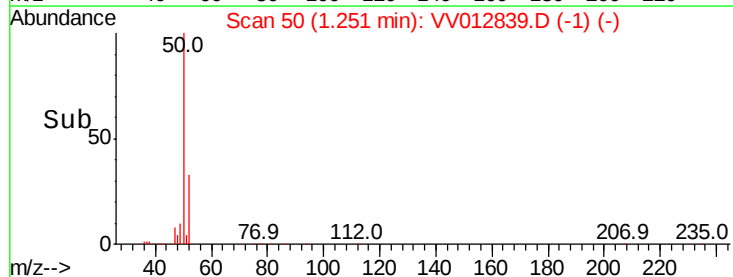
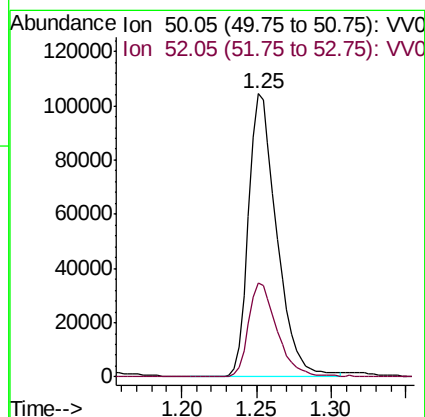
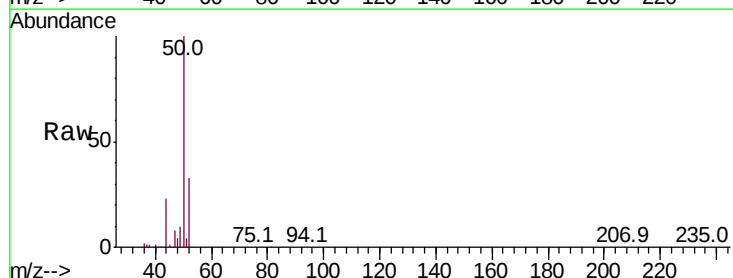
Acq: 16 Sep 2019 16:19

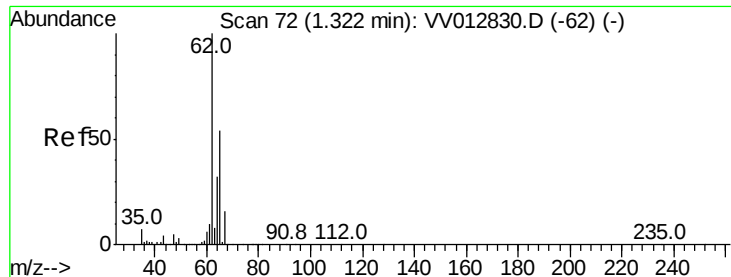
Tgt Ion: 50 Resp: 137118

Ion Ratio Lower Upper

50 100

52 33.2 21.3 39.6





#5

Vinyl chloride

Concen: 4.523 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

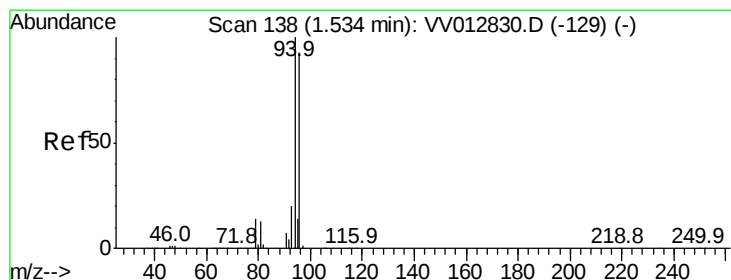
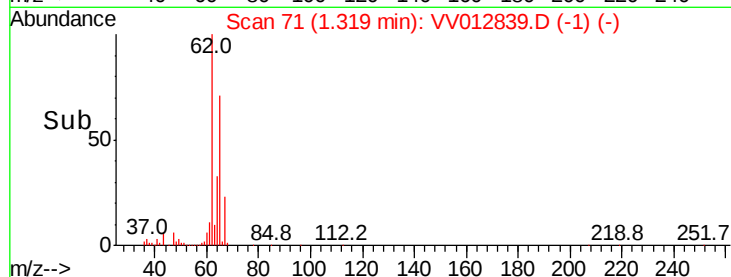
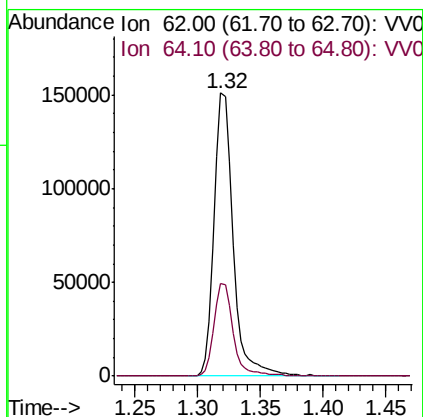
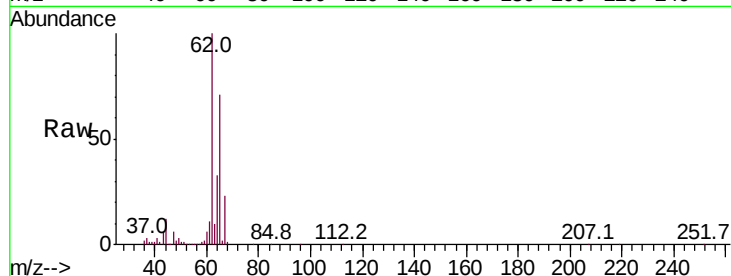
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 159794

Ion Ratio Lower Upper

62 100

64 32.7 23.2 43.0



#6

Bromomethane

Concen: 4.523 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV012839.D

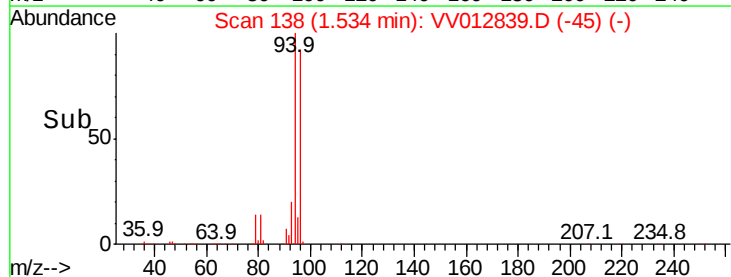
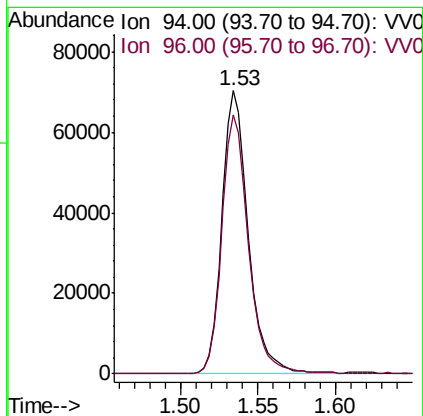
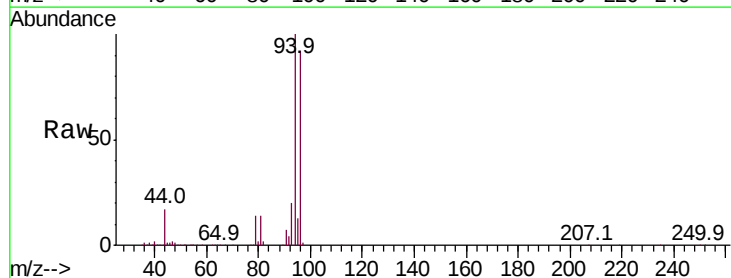
Acq: 16 Sep 2019 16:19

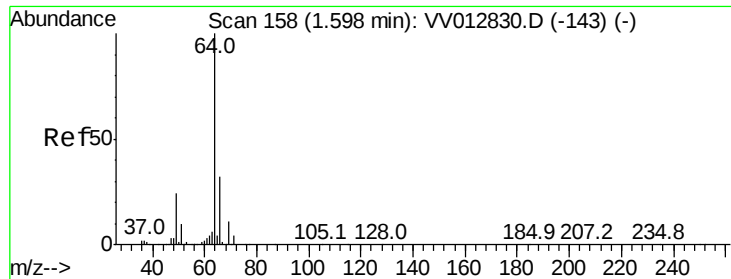
Tgt Ion: 94 Resp: 82140

Ion Ratio Lower Upper

94 100

96 91.6 66.1 122.7





#8

Chloroethane

Concen: 4.486 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

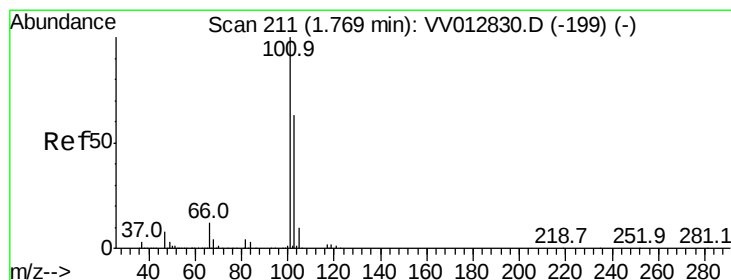
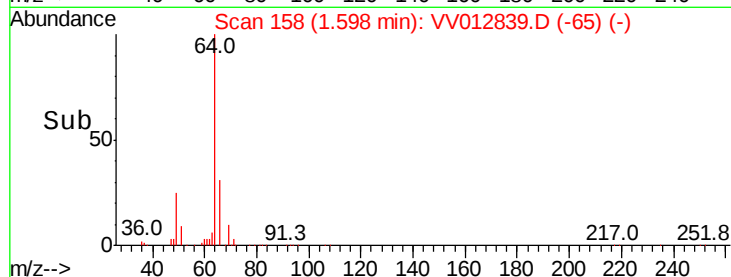
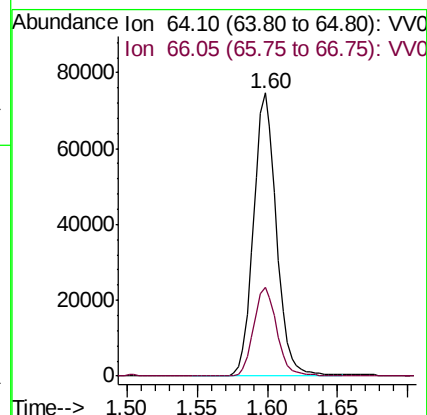
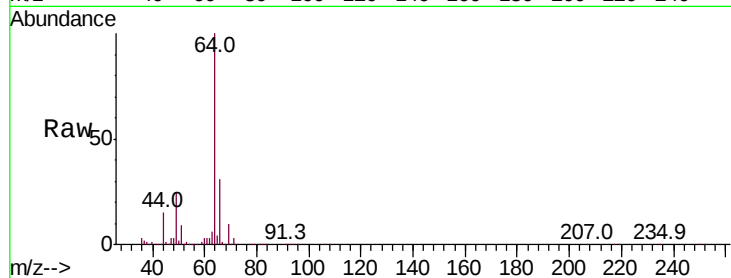
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 85507

Ion Ratio Lower Upper

64 100

66 31.2 22.3 41.5



#9

Trichlorofluoromethane

Concen: 4.594 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV012839.D

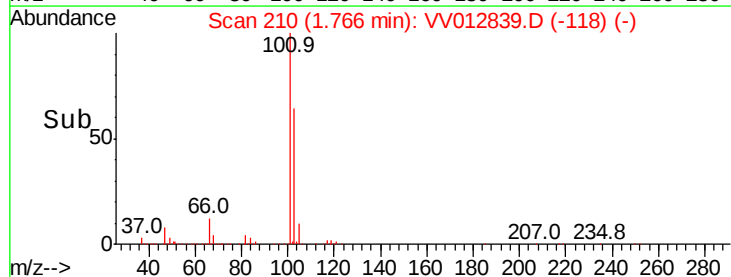
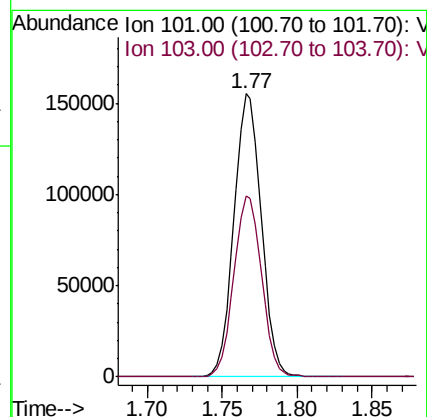
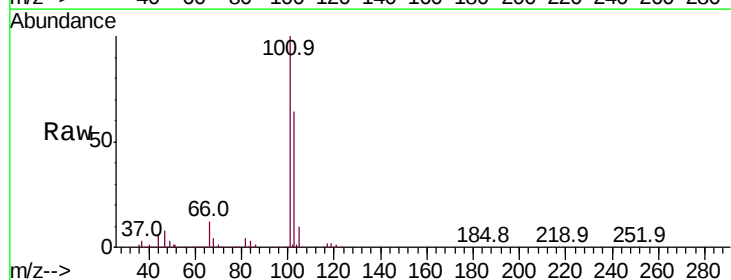
Acq: 16 Sep 2019 16:19

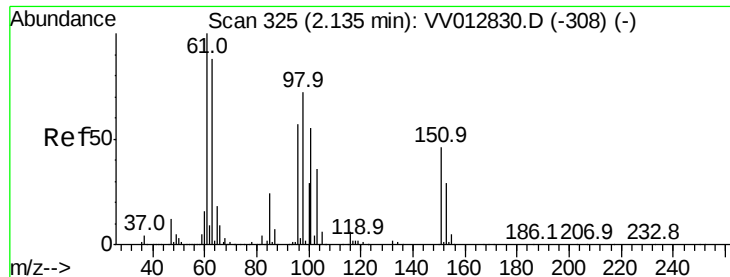
Tgt Ion:101 Resp: 198456

Ion Ratio Lower Upper

101 100

103 64.8 51.2 76.8





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 4.628 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Instrument :

MSVOA_V

ClientSampleId :

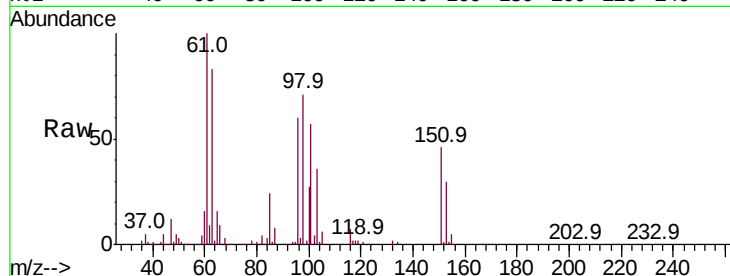
Tot Ion:101 Resp: 118204

Ion Ratio Lower Upper

101 100

85 41.1 32.9 49.3

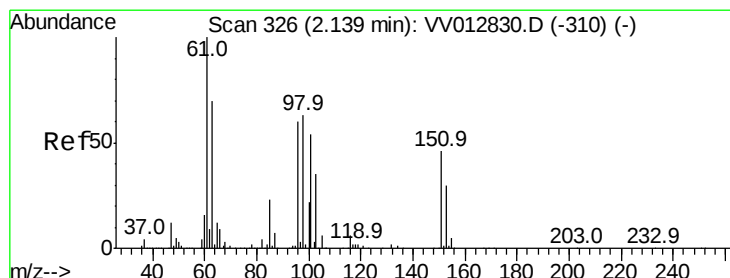
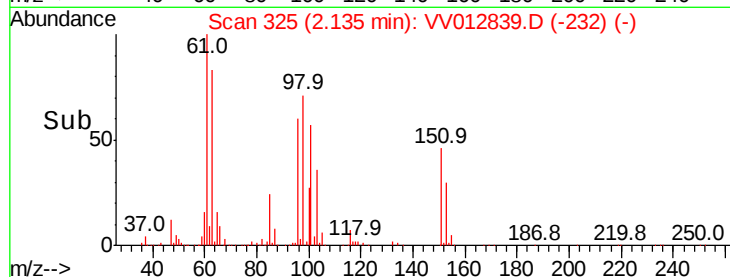
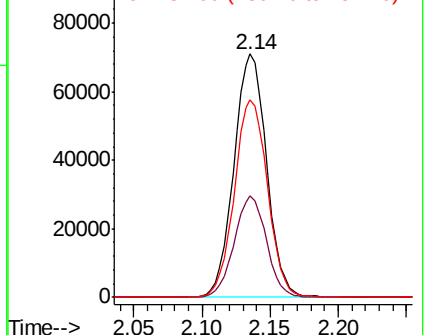
151 82.3 65.0 97.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 4.509 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

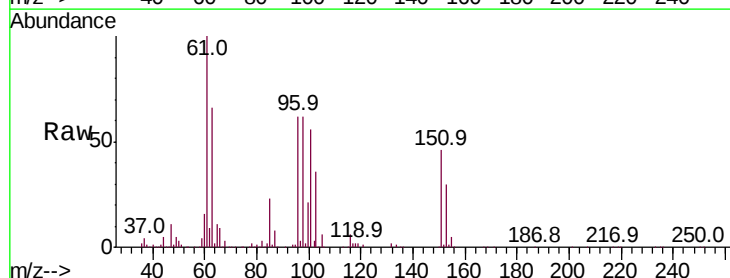
Tgt Ion: 96 Resp: 105789

Ion Ratio Lower Upper

96 100

61 162.4 120.1 223.1

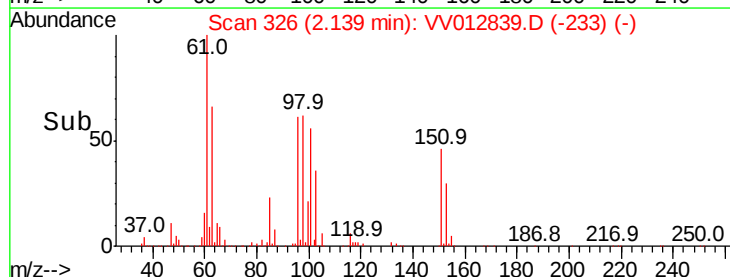
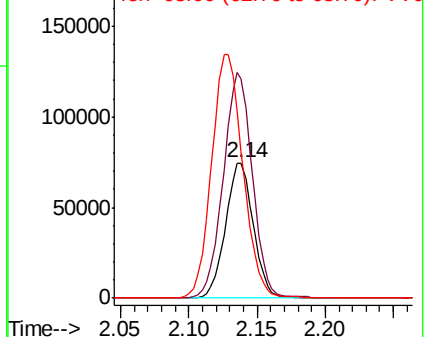
63 107.7 88.3 164.1

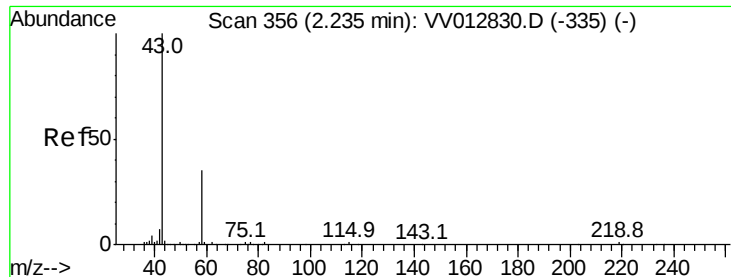


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 65.873 ug/L

RT: 2.25 min Scan# 361

Delta R.T. 0.03 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

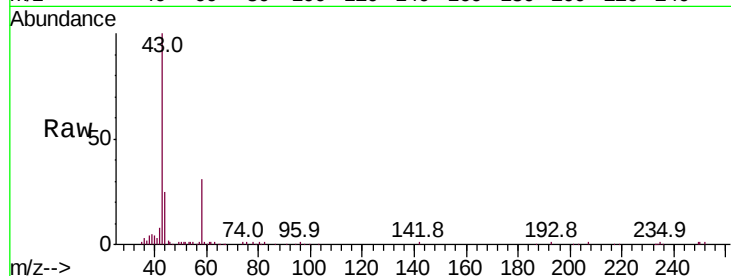
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 209898

Ion Ratio Lower Upper

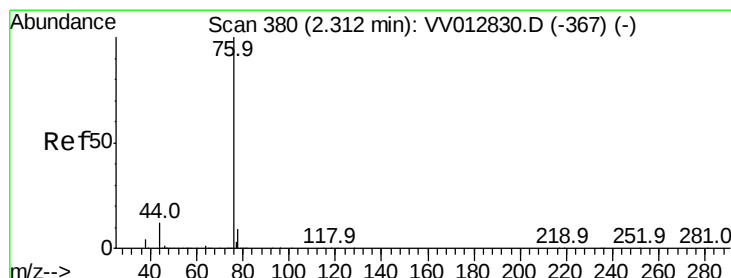
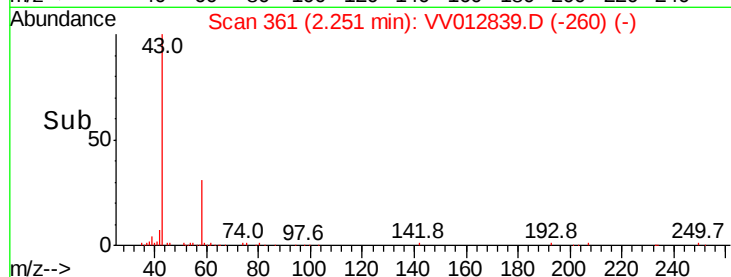
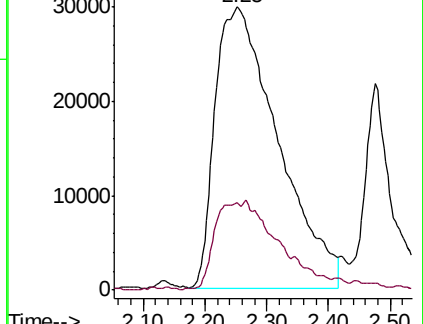
43 100

58 8.4 0.0 56.6



Abundance Ion 43.05 (42.75 to 43.75): VV012839.D (-361) (-)

Ion 58.05 (57.75 to 58.75): VV012839.D (-361) (-)



#14

Carbon disulfide

Concen: 4.472 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV012839.D

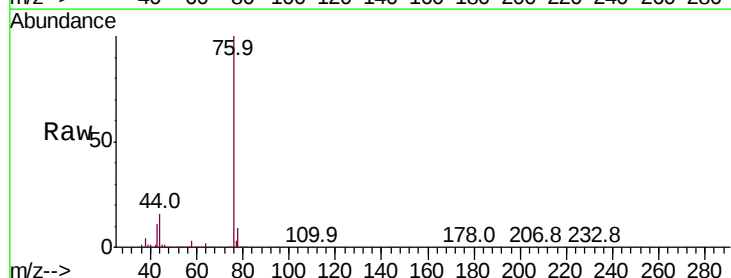
Acq: 16 Sep 2019 16:19

Tgt Ion: 76 Resp: 225961

Ion Ratio Lower Upper

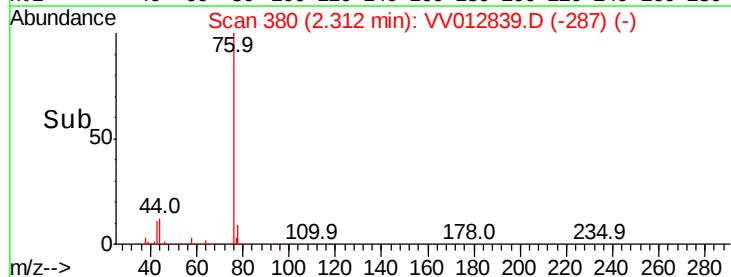
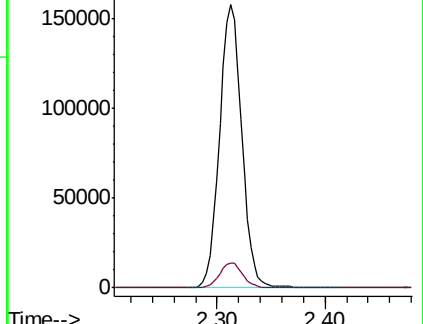
76 100

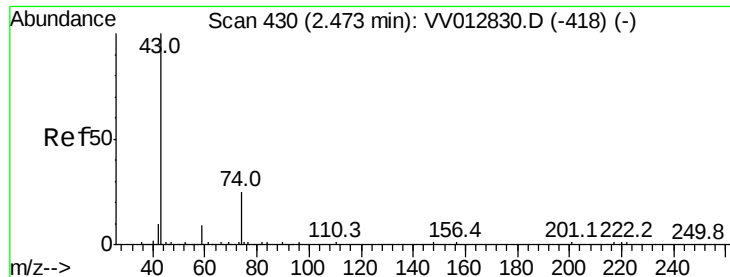
78 9.0 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VV012839.D (-380) (-)

Ion 78.00 (77.70 to 78.70): VV012839.D (-380) (-)

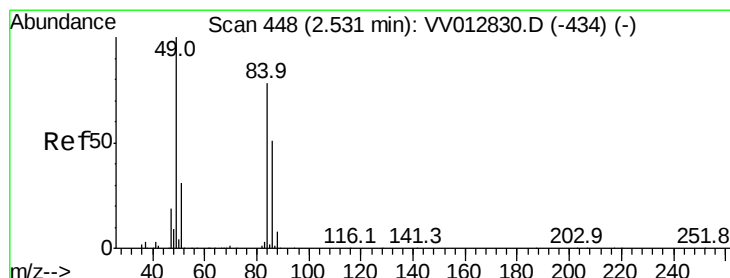
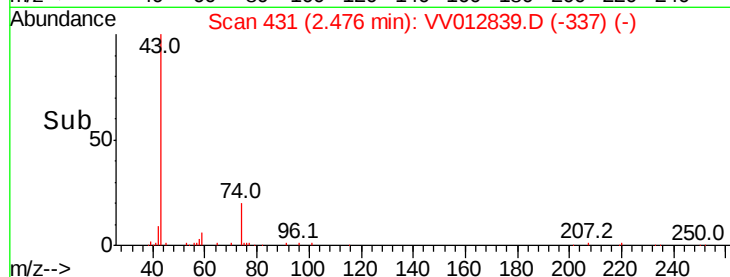
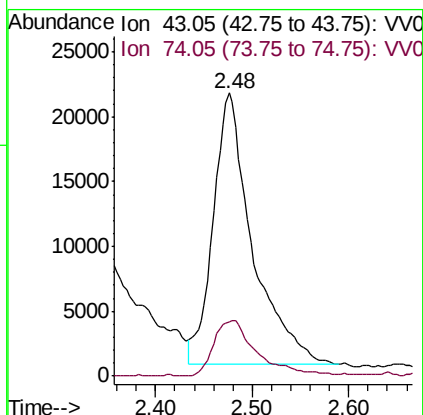
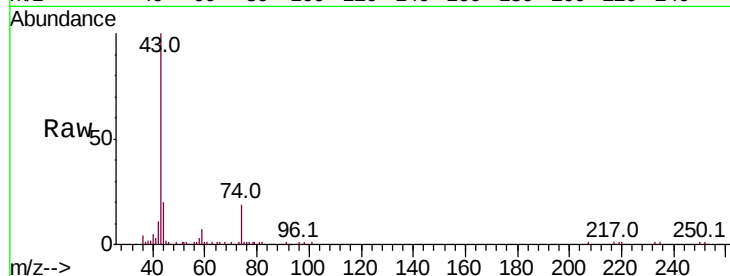




#15
Methyl Acetate
Concen: 6.372 ug/L
RT: 2.48 min Scan# 431
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

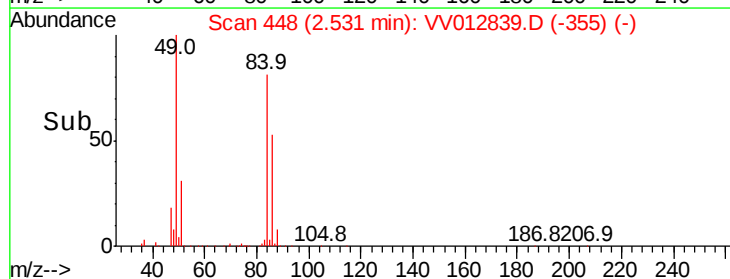
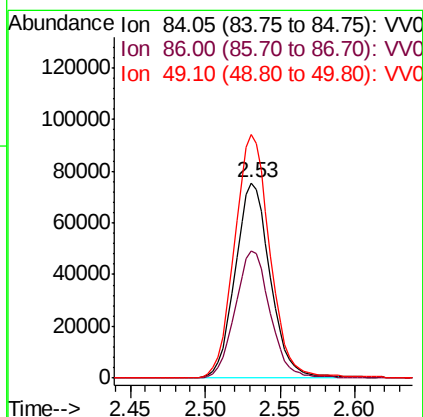
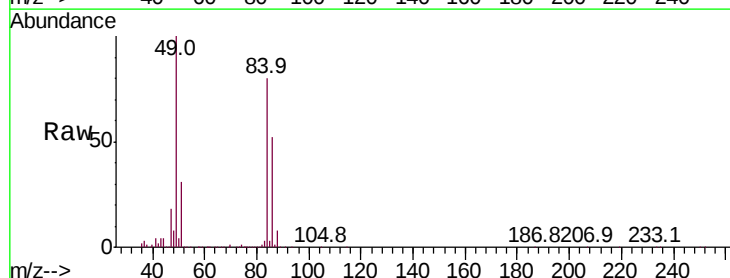
Instrument :
MSVOA_V
ClientSampleId :

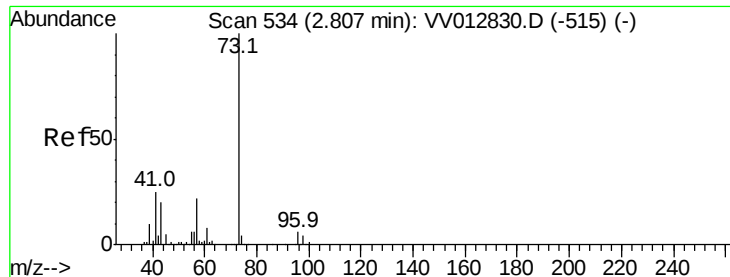
Tot Ion: 43 Resp: 58686
Ion Ratio Lower Upper
43 100
74 22.3 20.7 31.1



#16
Methylene chloride
Concen: 4.406 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

Tgt Ion: 84 Resp: 122997
Ion Ratio Lower Upper
84 100
86 65.3 45.4 84.4
49 124.6 88.0 163.4



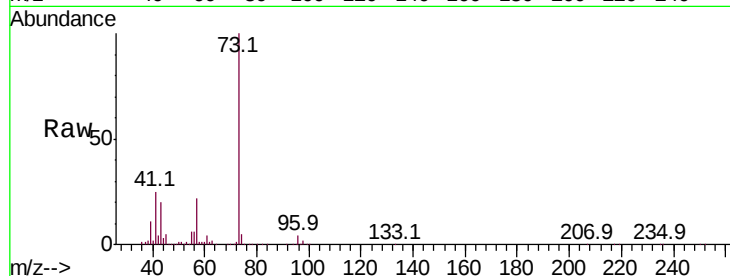


#17

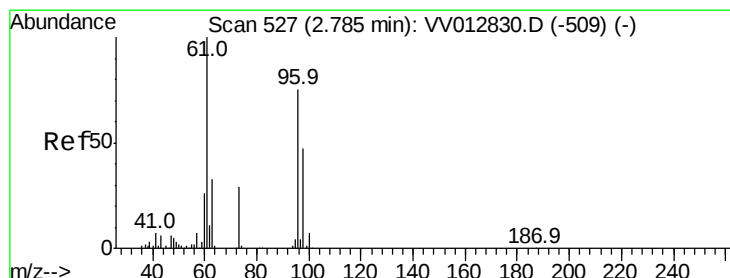
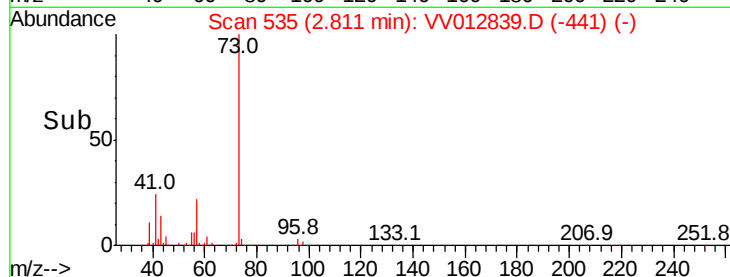
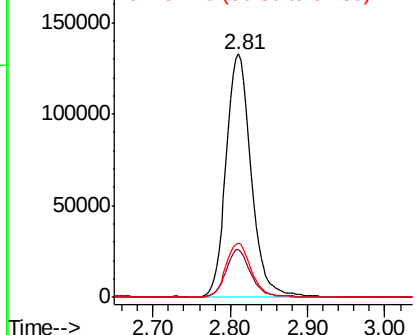
Methvl tert-butvl Ether
Concen: 4.859 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 73 Resp: 297871
Ion Ratio Lower Upper
73 100
43 19.0 14.5 21.7
57 22.2 18.2 27.4



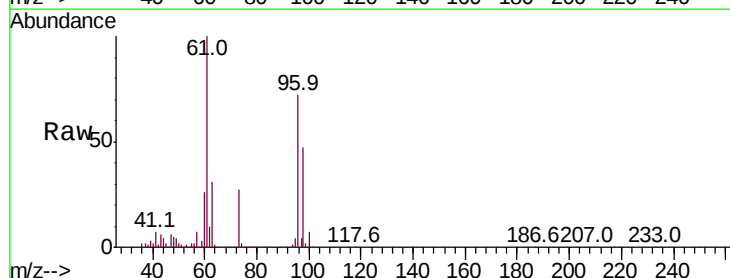
Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0



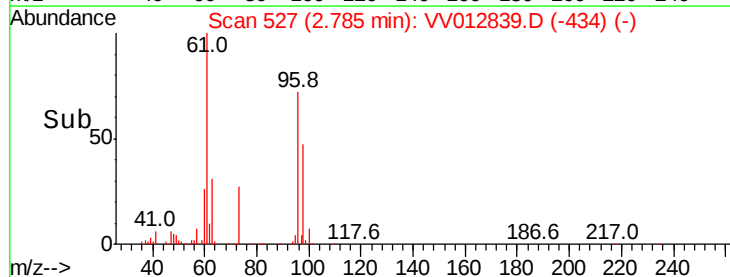
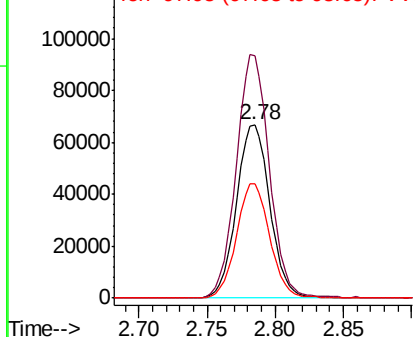
#18

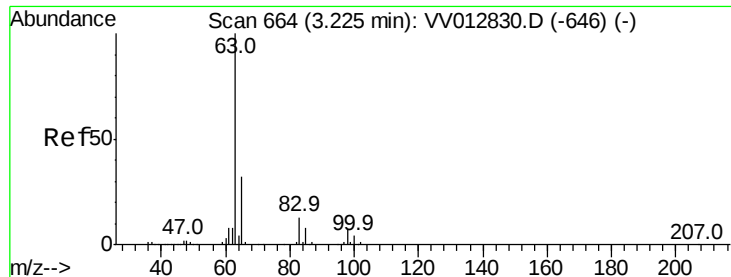
trans-1,2-Dichloroethene
Concen: 4.452 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

Tgt Ion: 96 Resp: 114032
Ion Ratio Lower Upper
96 100
61 139.2 98.2 182.4
98 66.0 44.6 82.8



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

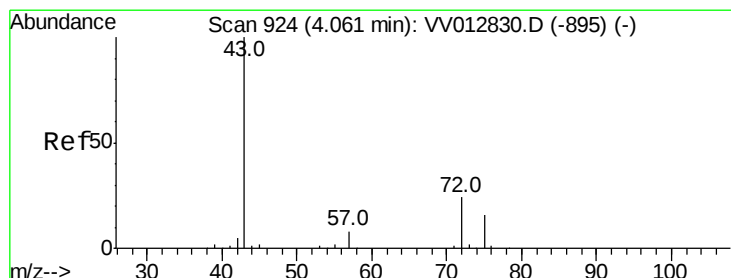
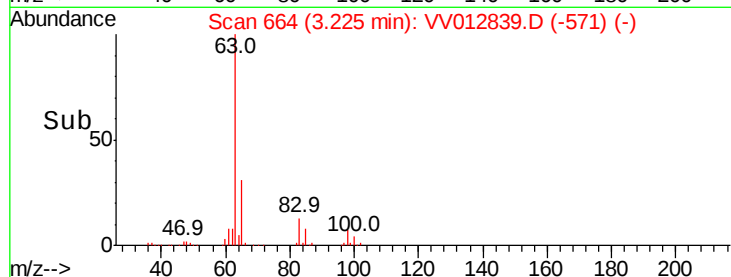
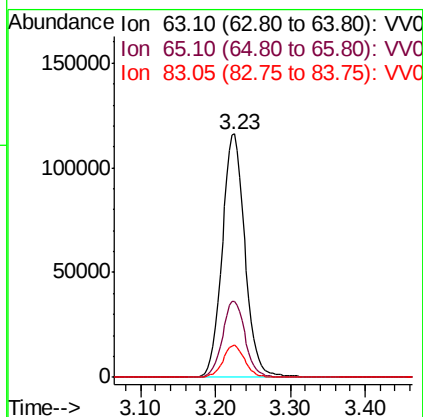
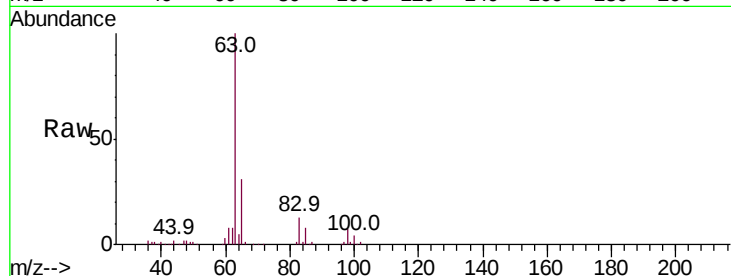




#19
 1,1-Dichloroethane
 Concen: 4.611 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

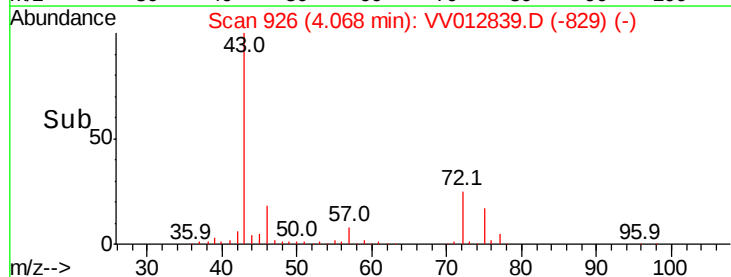
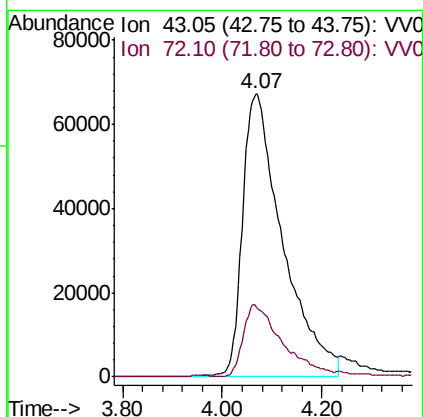
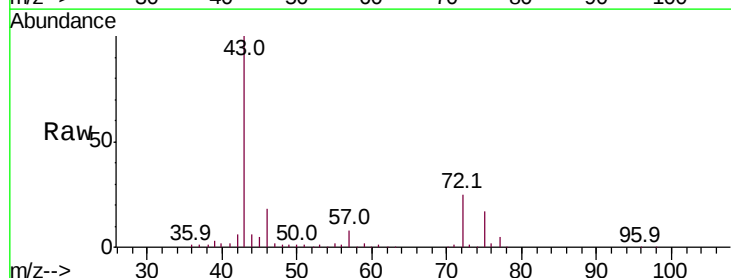
Instrument :
 MSVOA_V
 ClientSampleId :

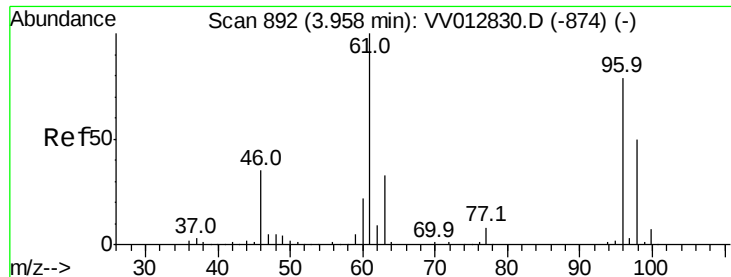
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.4	21.8	40.4
83	13.1	9.2	17.0



#21
 2-Butanone
 Concen: 64.440 ug/L
 RT: 4.07 min Scan# 926
 Delta R.T. 0.01 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.6	12.6	37.6



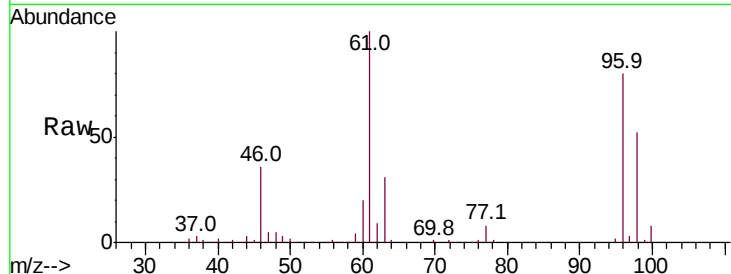


#22

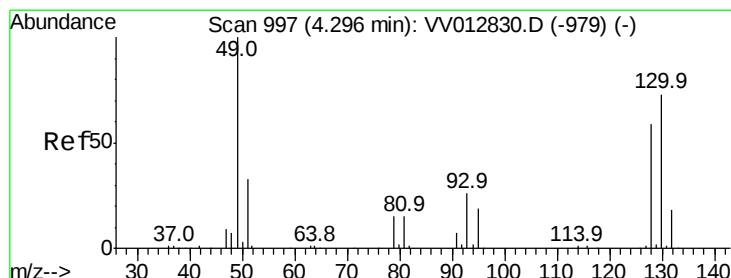
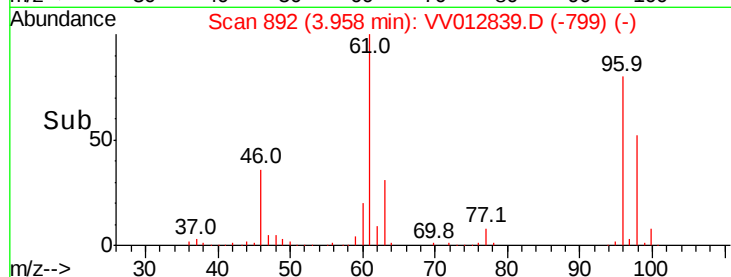
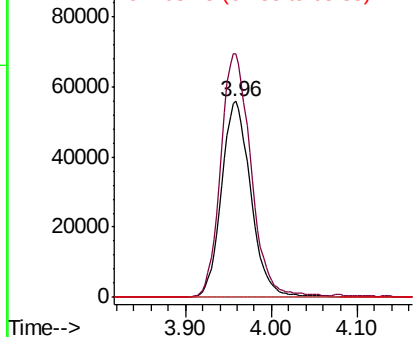
cis-1,2-Dichloroethene
Concen: 4.695 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	124.3	91.2	169.4
68	0.0	0.0	0.0



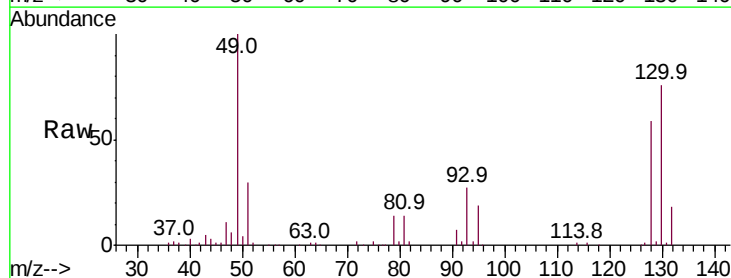
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



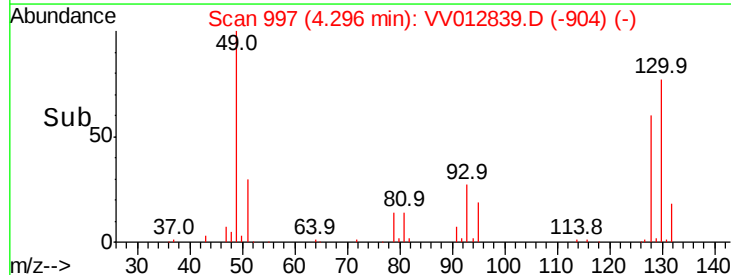
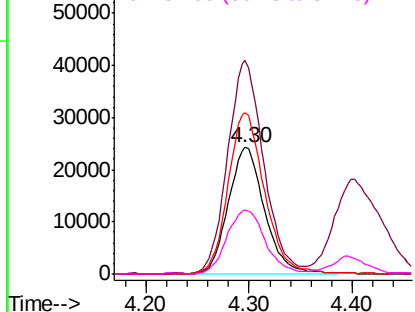
#23

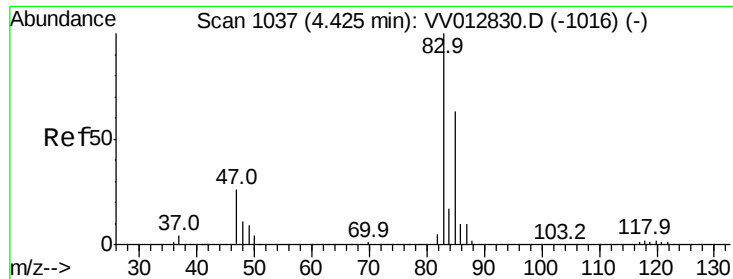
Bromochloromethane
Concen: 4.841 ug/L
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

Tgt Ion	Ratio	Lower	Upper
128	100		
49	168.6	117.5	218.3
130	127.7	89.9	167.0
51	50.3	42.7	64.1



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0

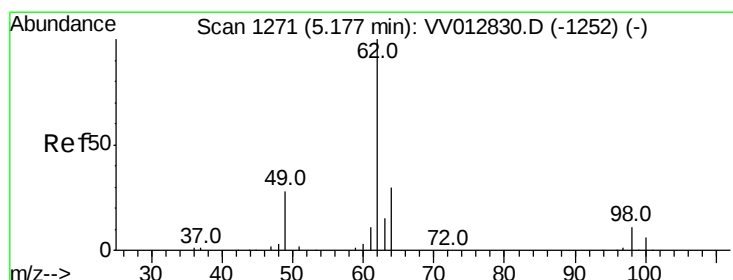
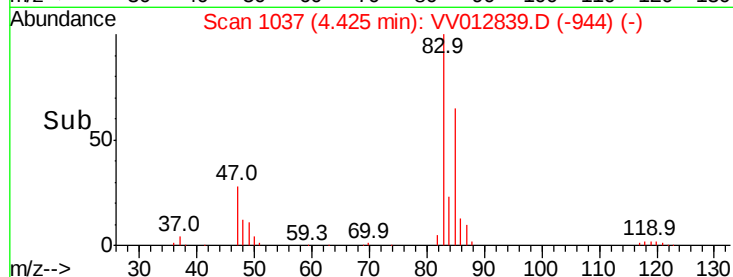
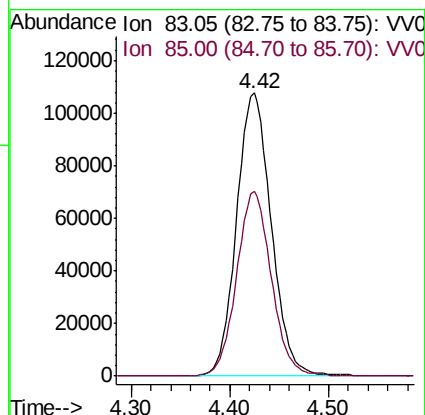
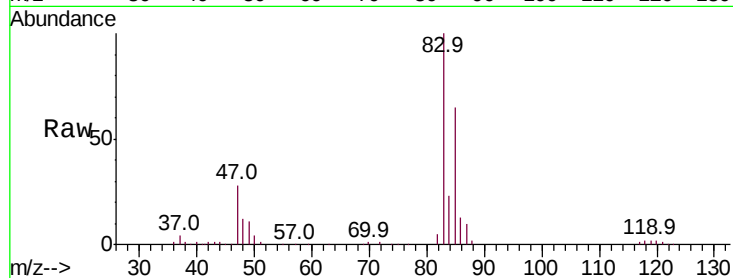




#25
Chloroform
Concen: 4.468 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

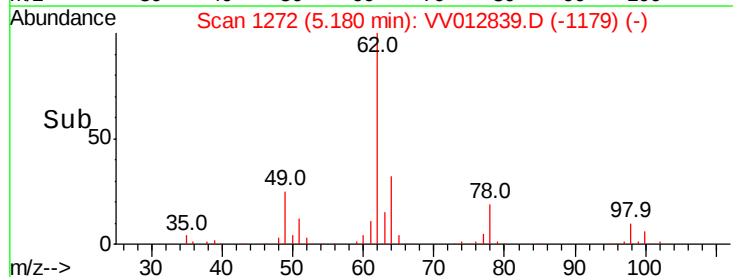
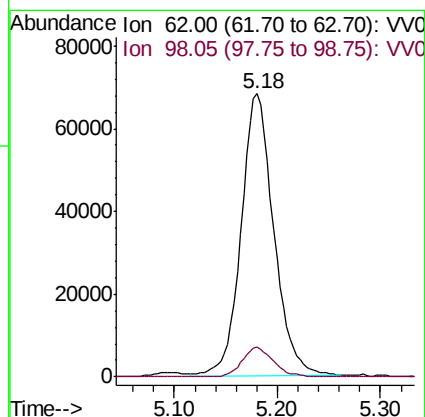
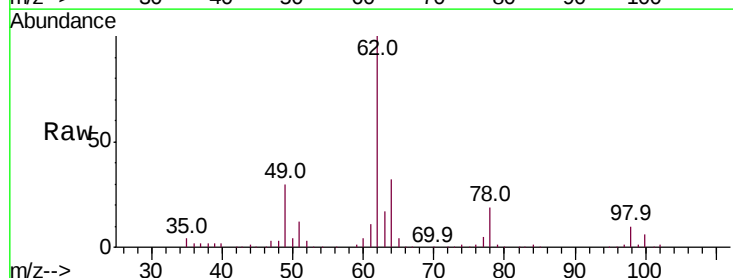
Instrument :
MSVOA_V
ClientSampled :

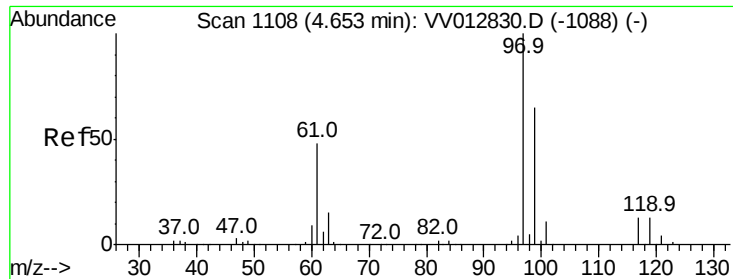
Tot Ion: 83 Resp: 263367
Ion Ratio Lower Upper
83 100
85 65.5 44.4 82.5



#27
1,2-Dichloroethane
Concen: 4.915 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

Tgt Ion: 62 Resp: 150015
Ion Ratio Lower Upper
62 100
98 10.4 8.3 12.5

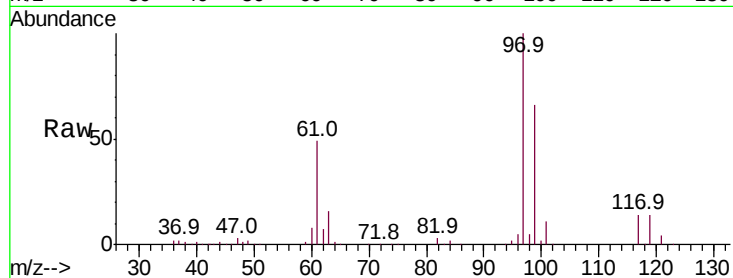




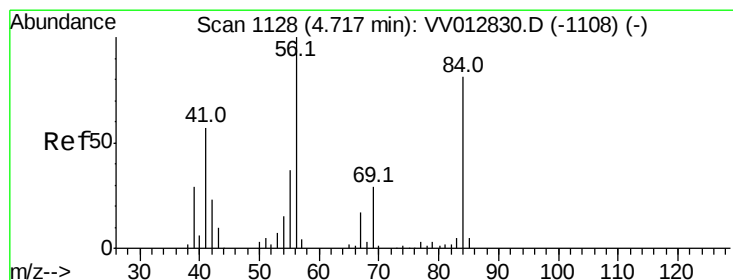
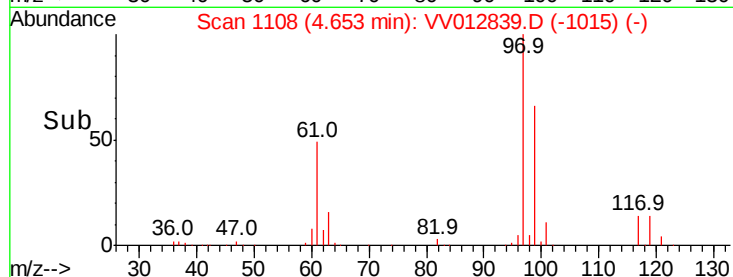
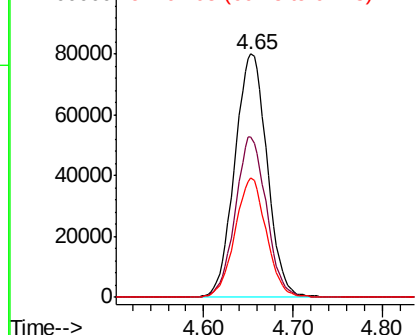
#29
1,1,1-Trichloroethane
Concen: 4.613 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 97 Resp: 201591
Ion Ratio Lower Upper
97 100
99 63.5 50.9 76.3
61 47.7 38.2 57.4

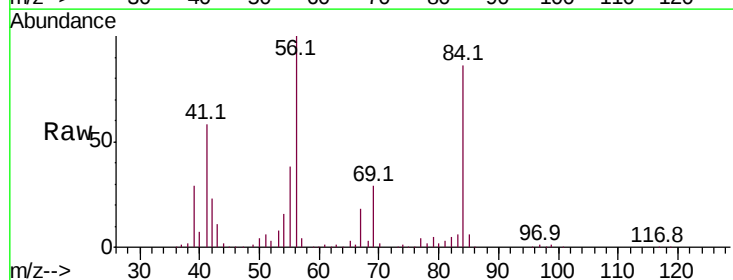


Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 61.05 (60.75 to 61.75): VV0

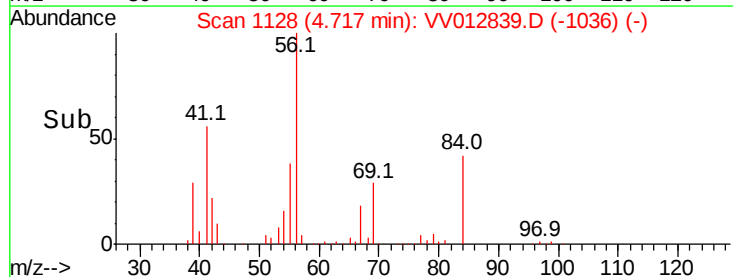
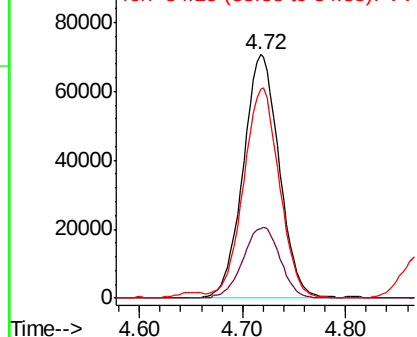


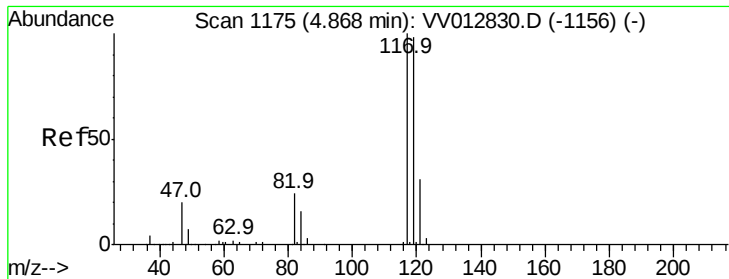
#30
Cyclohexane
Concen: 4.631 ug/L
RT: 4.72 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

Tgt Ion: 56 Resp: 171366
Ion Ratio Lower Upper
56 100
69 29.9 23.9 35.9
84 85.9 67.9 101.9



Abundance Ion 56.10 (55.80 to 56.80): VV0
Ion 69.15 (68.85 to 69.85): VV0
Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.566 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Instrument :

MSVOA_V

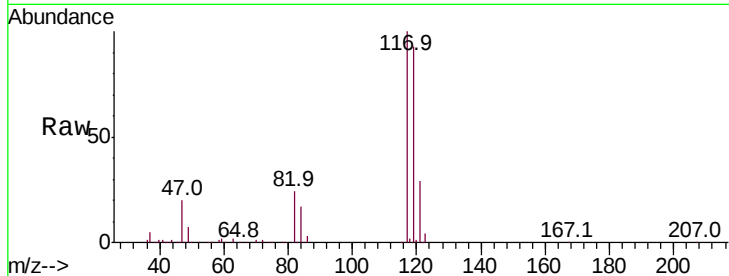
ClientSampleId :

Tot Ion:117 Resp: 169218

Ion Ratio Lower Upper

117 100

119 95.7 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

80000

60000

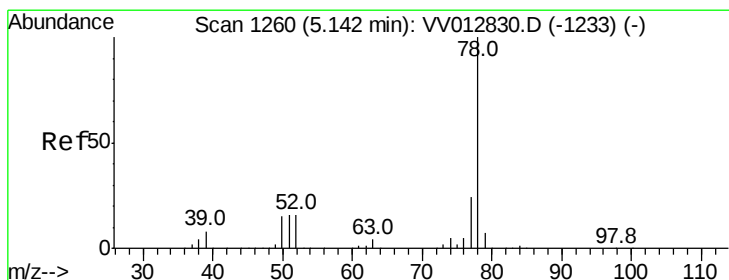
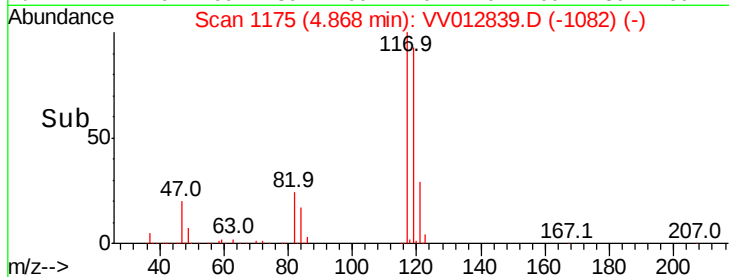
40000

20000

0

Time-->

4.80 4.90 5.00



#33

Benzene

Concen: 4.762 ug/L

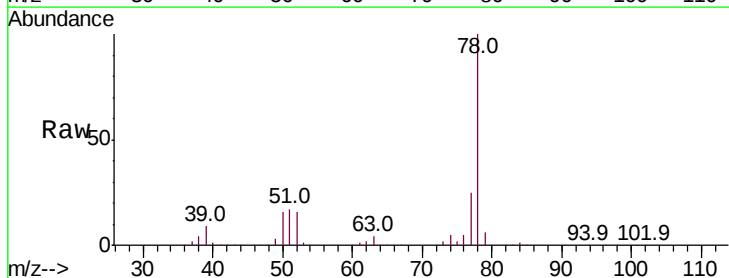
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Tgt Ion: 78 Resp: 512135



Abundance Ion 78.10 (77.80 to 78.80): VV0

5.14

250000

200000

150000

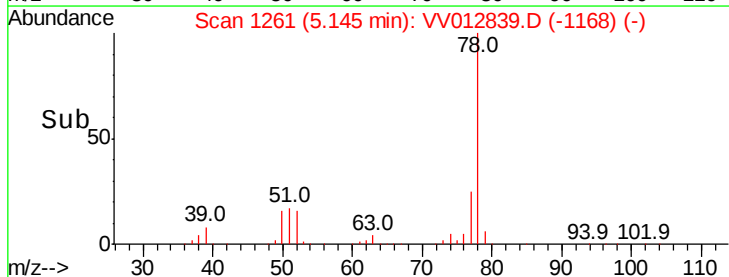
100000

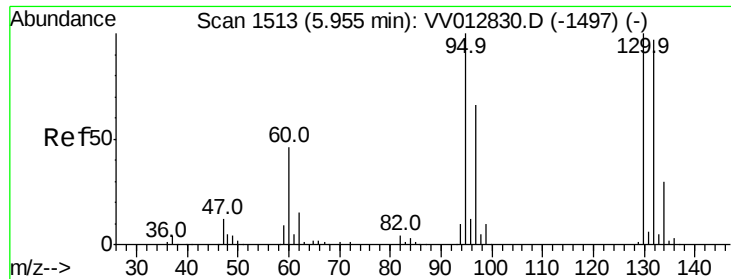
50000

0

Time-->

5.00 5.10 5.20 5.30





#34

Trichloroethene

Concen: 4.623 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Instrument :

MSVOA_V

ClientSampled :

Tot Ion: 95 Resp: 141878

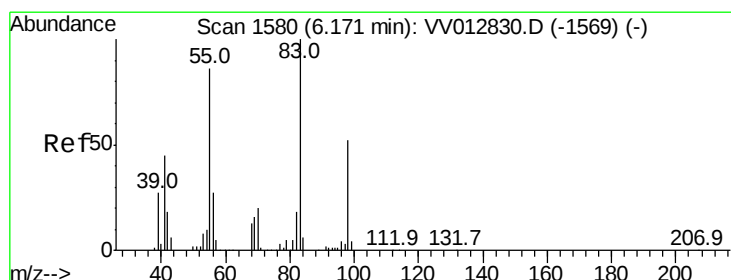
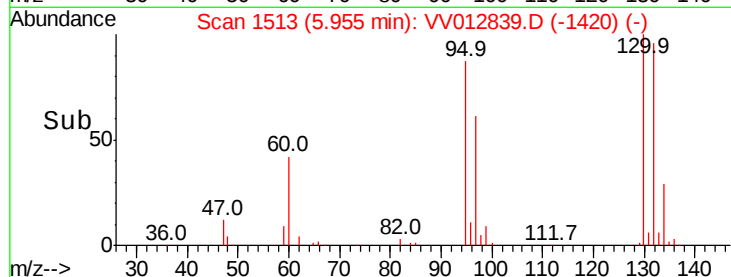
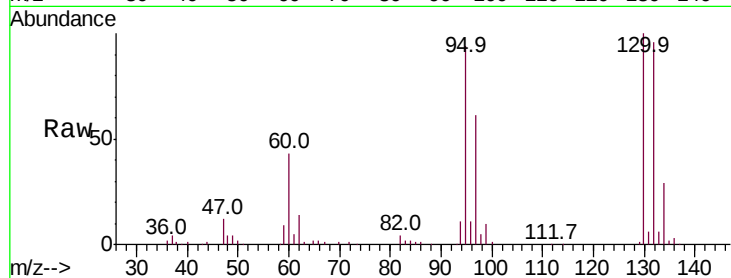
Ion Ratio Lower Upper

95 100

97 65.5 44.4 82.4

132 101.9 69.0 128.1

130 106.5 72.8 135.2



#35

Methylcyclohexane

Concen: 4.774 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

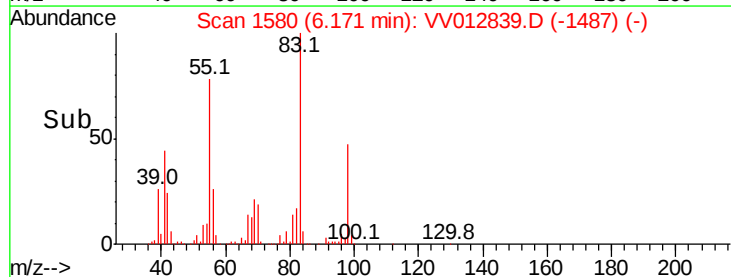
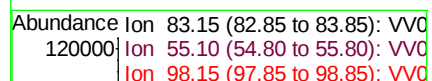
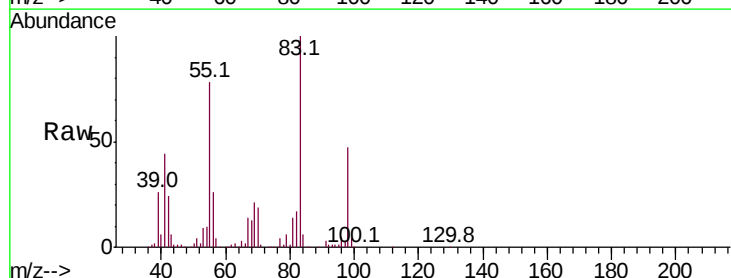
Tgt Ion: 83 Resp: 180017

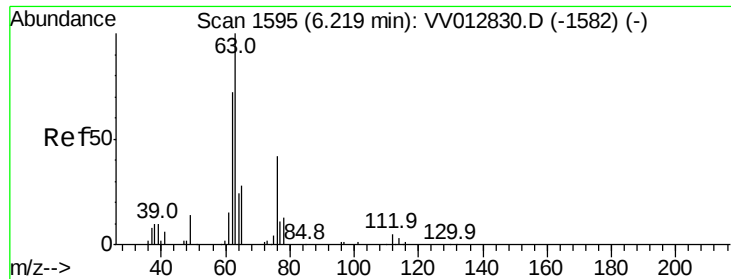
Ion Ratio Lower Upper

83 100

55 79.0 65.4 98.2

98 47.4 39.0 58.4





#37

1,2-Dichloropropane

Concen: 4.854 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV012839.D

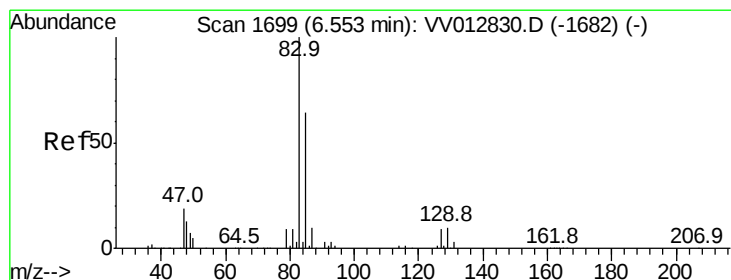
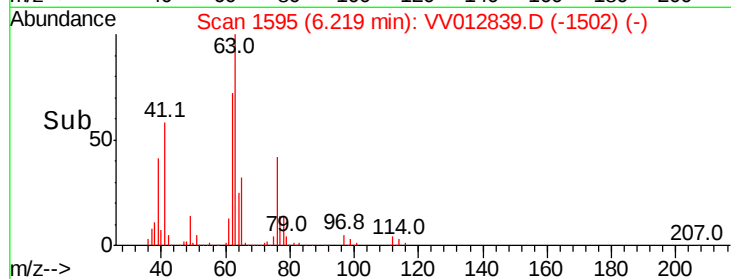
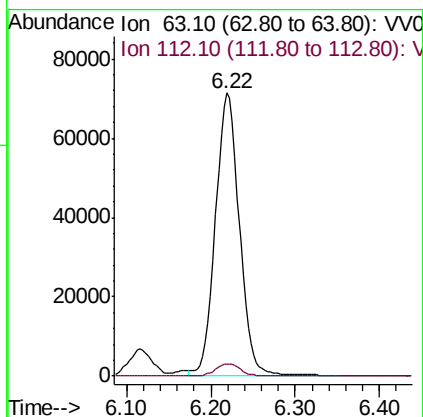
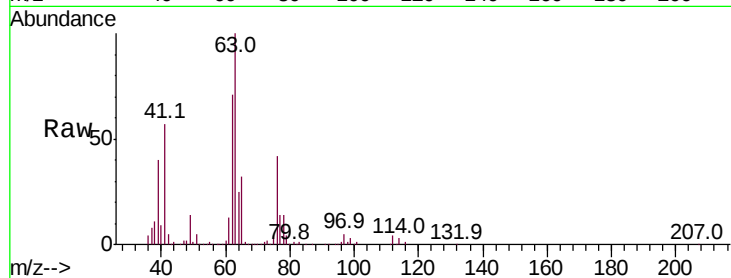
Acq: 16 Sep 2019 16:19

Instrument :
MSVOA_V

ClientSampleId :

Tot Ion: 63 Resp: 140472

Ion	Ratio	Lower	Upper
63	100		
112	4.7	4.2	6.2



#38

Bromodichloromethane

Concen: 4.722 ug/L

RT: 6.55 min Scan# 1699

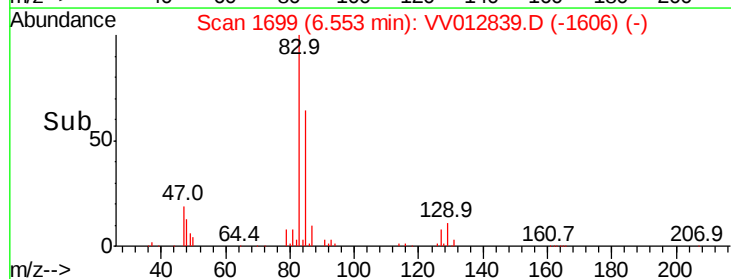
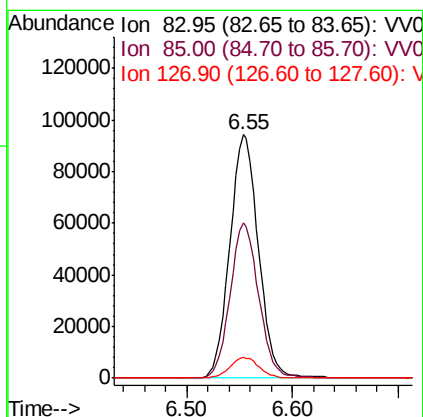
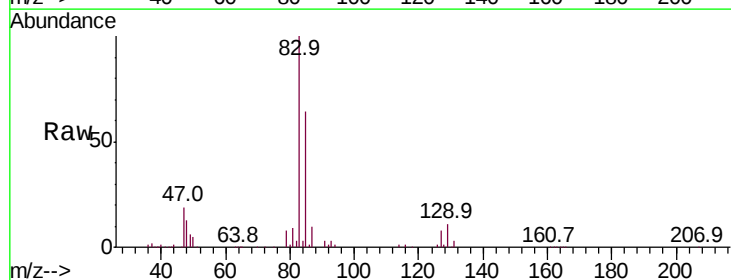
Delta R.T. 0.00 min

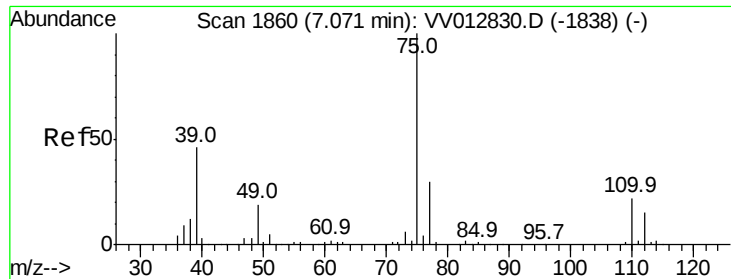
Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Tgt Ion: 83 Resp: 176779

Ion	Ratio	Lower	Upper
83	100		
85	63.7	44.2	82.0
127	8.3	6.7	10.1

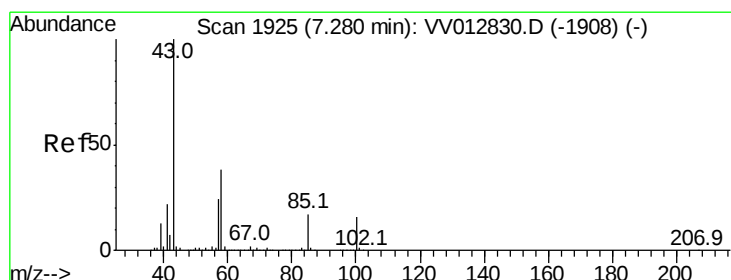
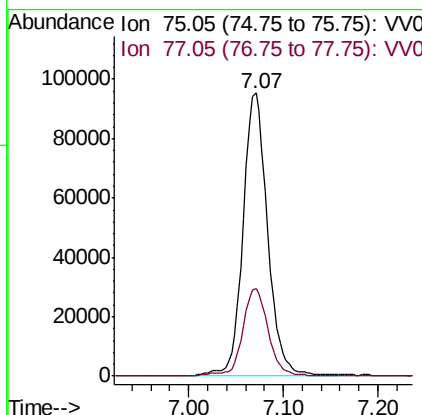
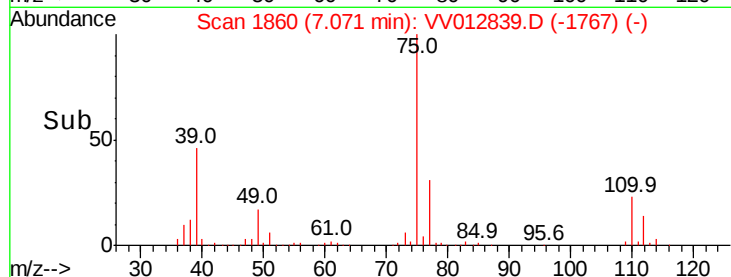
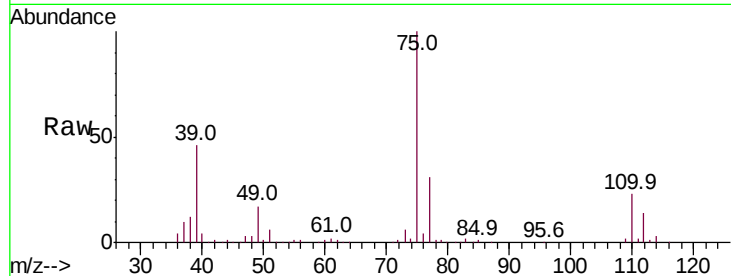




#39
 cis-1,3-Dichloropropene
 Concen: 4.830 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

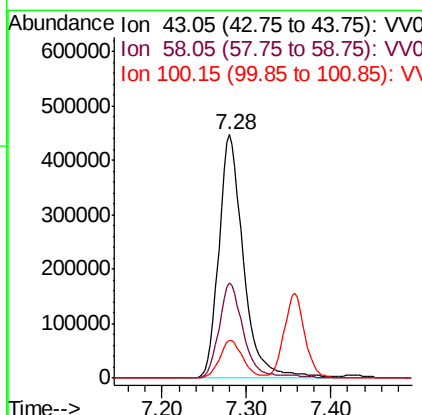
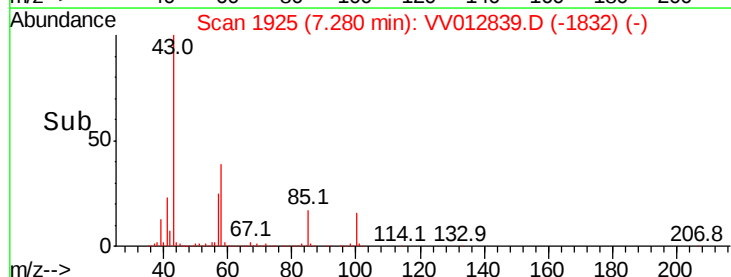
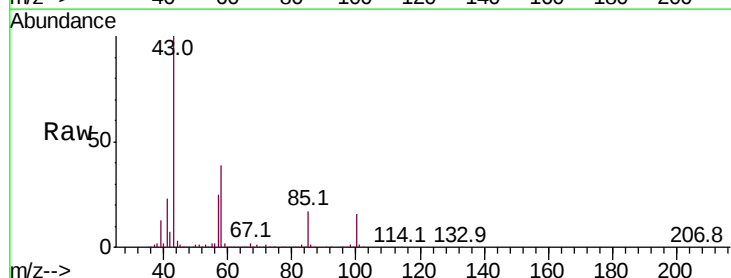
Instrument :
 MSVOA_V
 ClientSampleId :

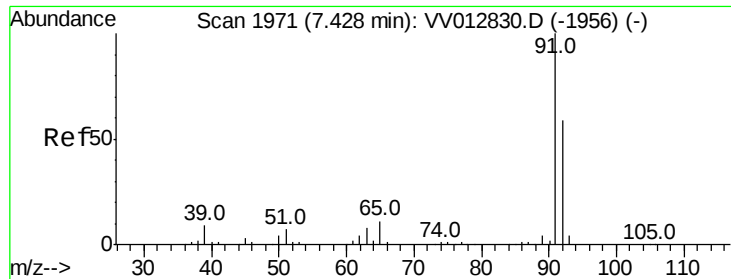
Tot Ion: 75 Resp: 173222
 Ion Ratio Lower Upper
 75 100
 77 31.0 21.8 40.6



#40
 4-Methyl-2-pentanone
 Concen: 56.706 ug/L
 RT: 7.28 min Scan# 1925
 Delta R.T. -0.00 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

Tgt Ion: 43 Resp: 907267
 Ion Ratio Lower Upper
 43 100
 58 37.9 32.9 49.3
 100 14.7 11.6 17.4





#42

Toluene

Concen: 5.015 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

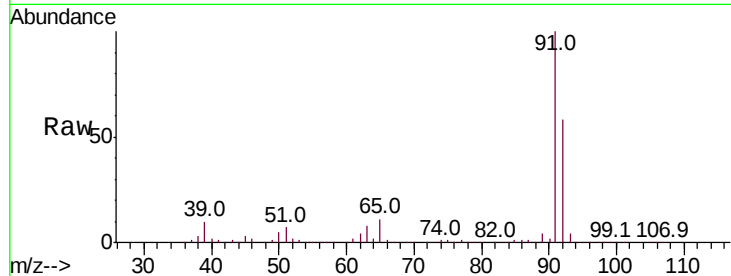
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 551396

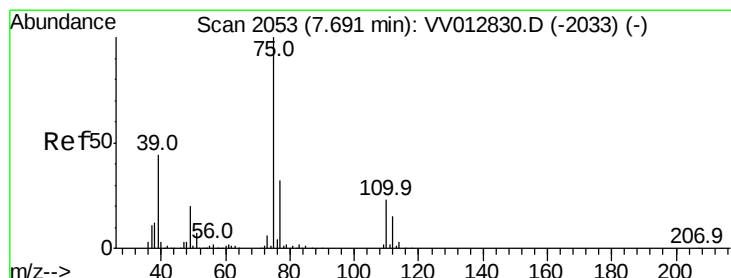
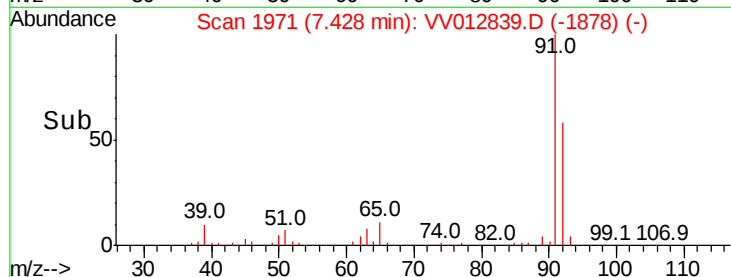
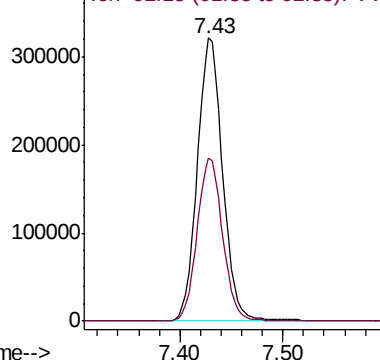
Ion Ratio Lower Upper

91 100

92 57.6 41.0 76.2



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 4.865 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012839.D

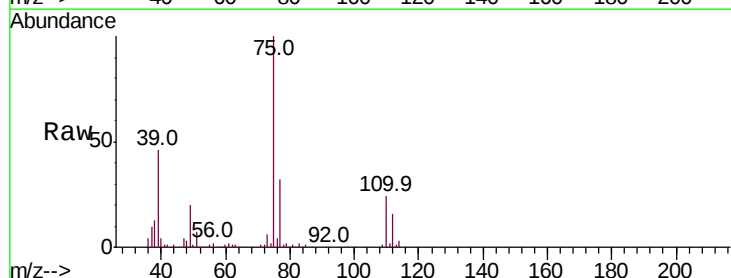
Acq: 16 Sep 2019 16:19

Tgt Ion: 75 Resp: 138747

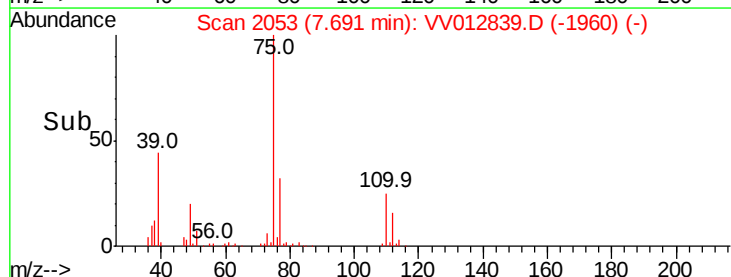
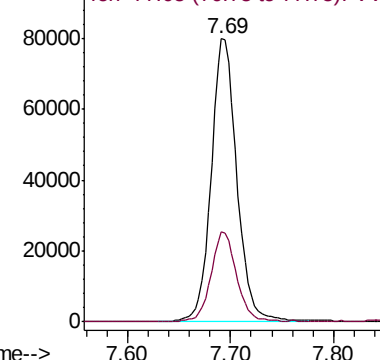
Ion Ratio Lower Upper

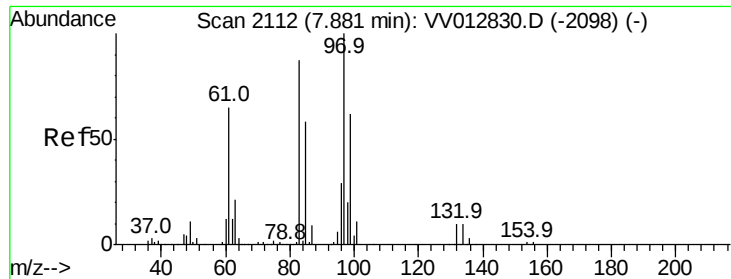
75 100

77 31.7 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0

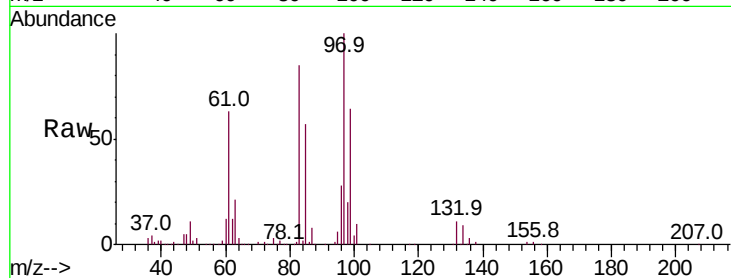




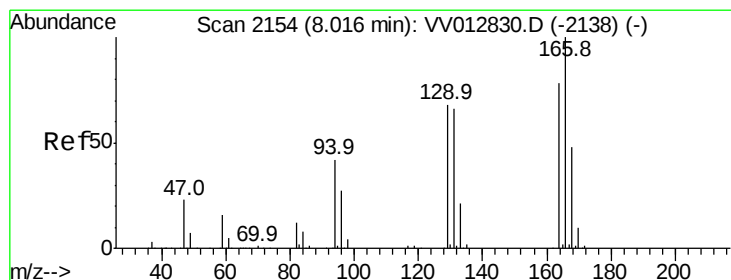
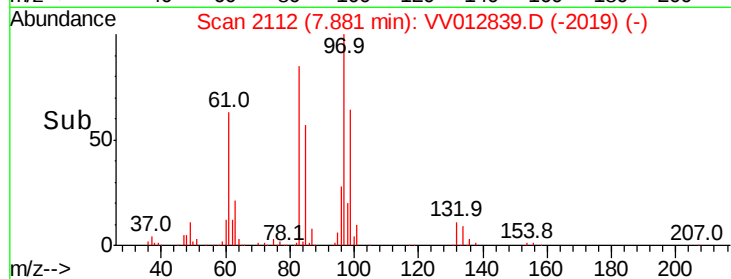
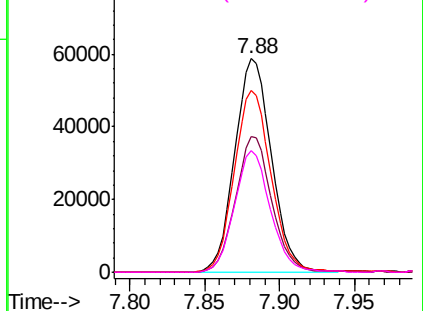
#45
 1,1,2-Trichloroethane
 Concen: 4.885 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 97 Resp: 100627
 Ion Ratio Lower Upper
 97 100
 99 63.6 45.2 84.0
 83 85.0 63.0 117.0
 85 56.9 39.6 73.6

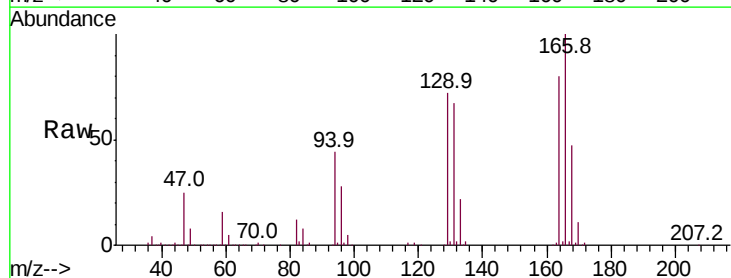


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

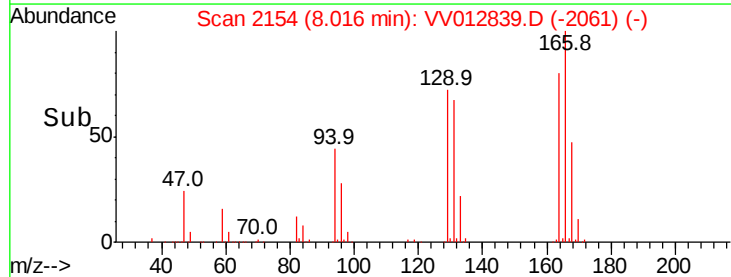
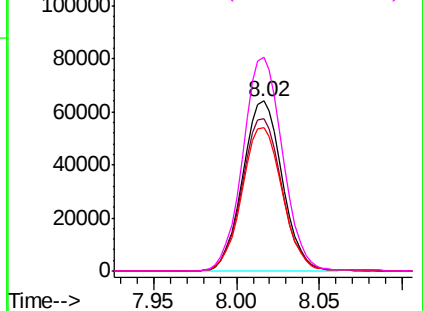


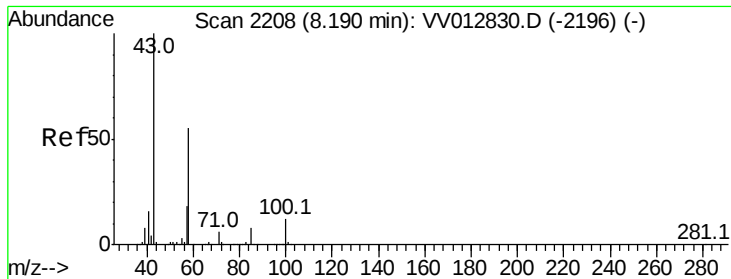
#47
 Tetrachloroethene
 Concen: 4.760 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

Tgt Ion: 164 Resp: 106971
 Ion Ratio Lower Upper
 164 100
 129 90.0 65.0 120.8
 131 84.0 63.6 118.0
 166 125.7 91.8 170.6



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

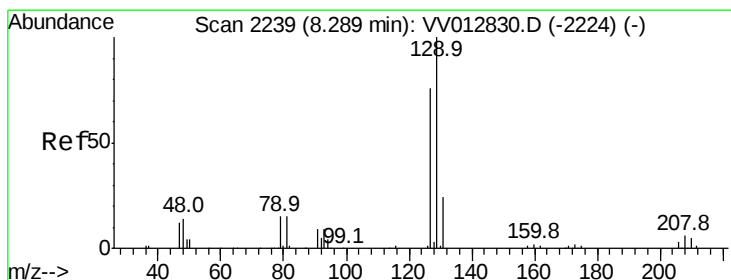
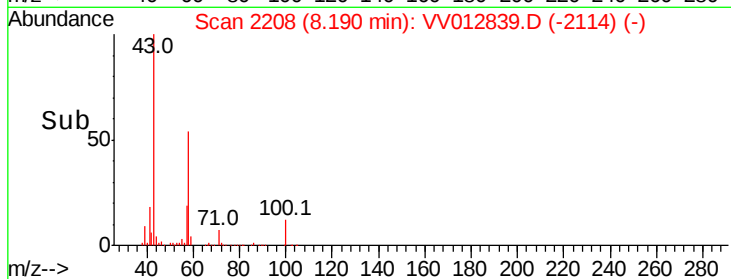
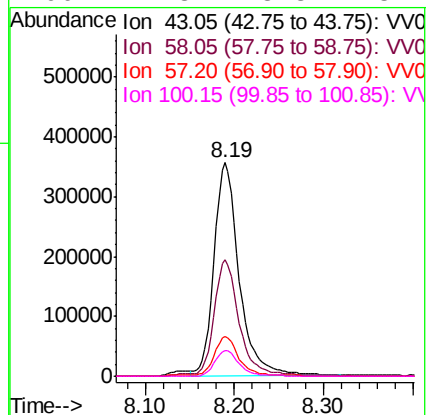
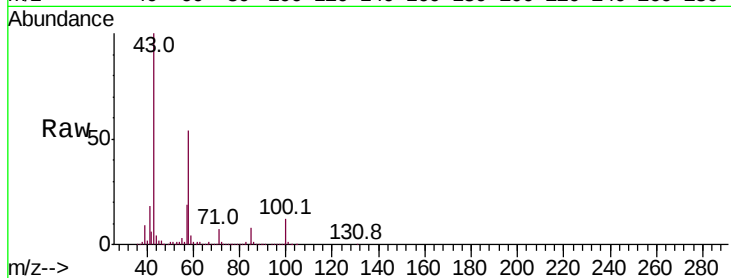




#48
2-Hexanone
Concen: 56.714 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

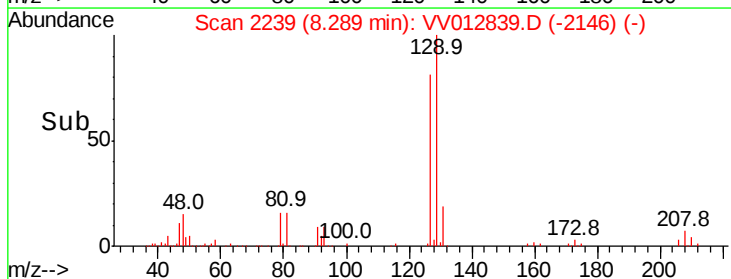
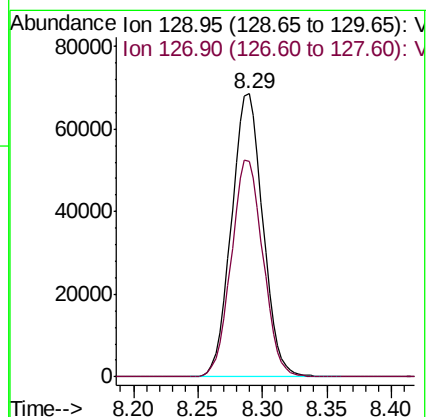
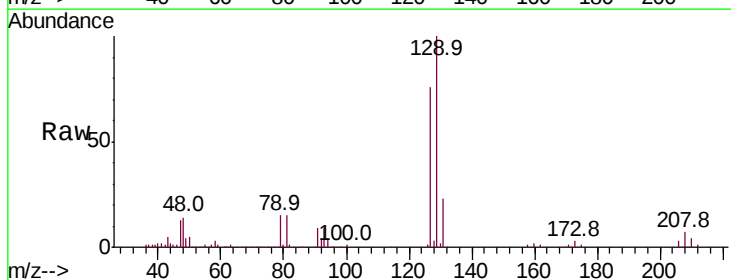
Instrument :
MSVOA_V
ClientSampled :

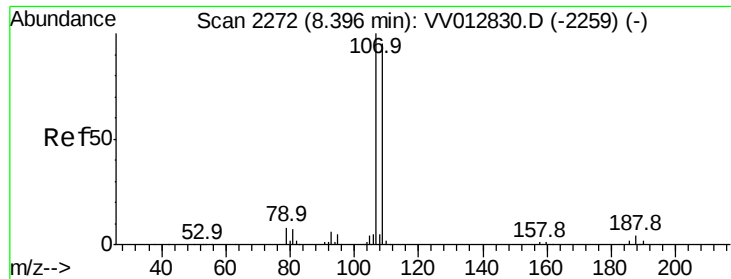
Tot Ion:	43	Resp:	691708
Ion	Ratio	Lower	Upper
43	100		
58	55.8	44.8	67.2
57	18.4	15.0	22.6
100	12.3	8.8	13.2



#49
Dibromochloromethane
Concen: 4.922 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012839.D
Acq: 16 Sep 2019 16:19

Tgt Ion:	129	Resp:	115947
Ion	Ratio	Lower	Upper
129	100		
127	76.3	53.9	100.1

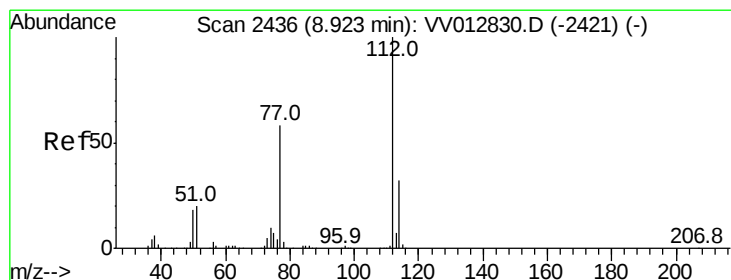
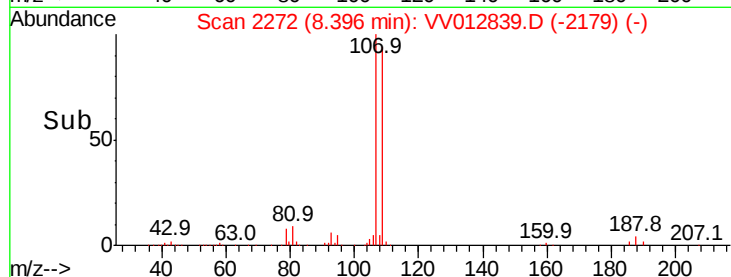
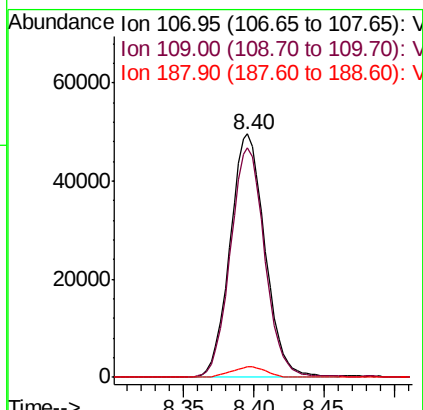
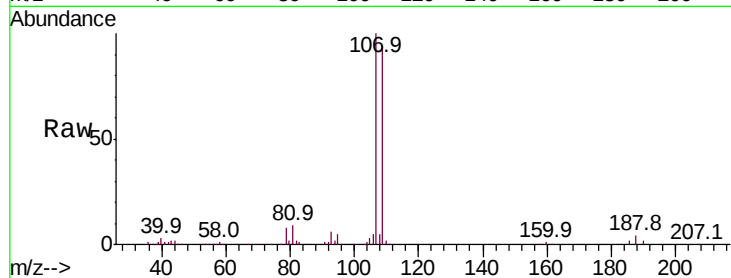




#50
 1,2-Dibromoethane
 Concen: 5.024 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

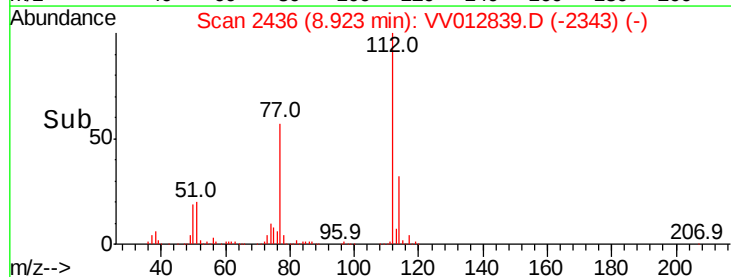
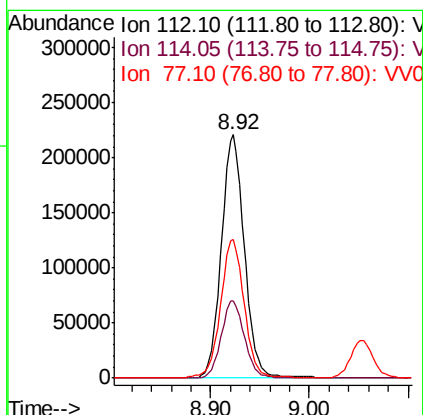
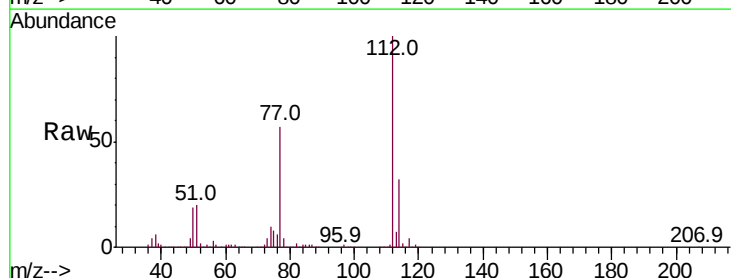
Instrument :
 MSVOA_V
 ClientSampleId :

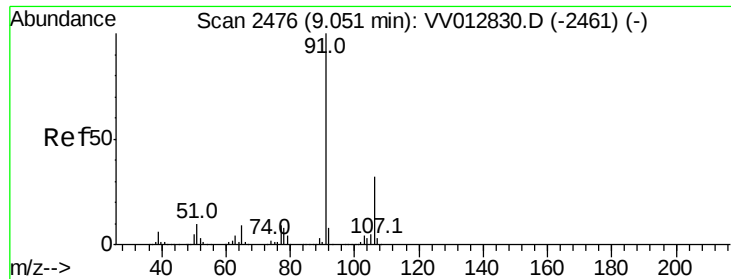
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.4	65.5	121.6
188	4.4	3.0	4.4



#51
 Chlorobenzene
 Concen: 4.783 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.0	41.0
77	56.8	45.7	68.5





#52

Ethylbenzene

Concen: 4.862 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

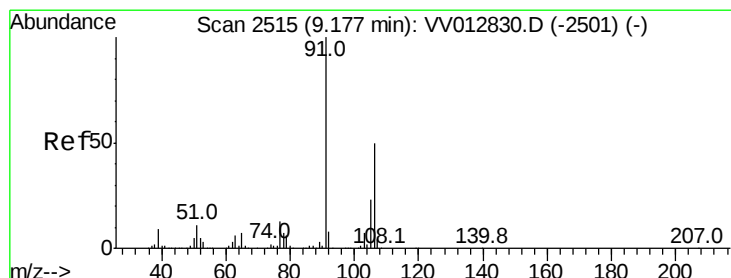
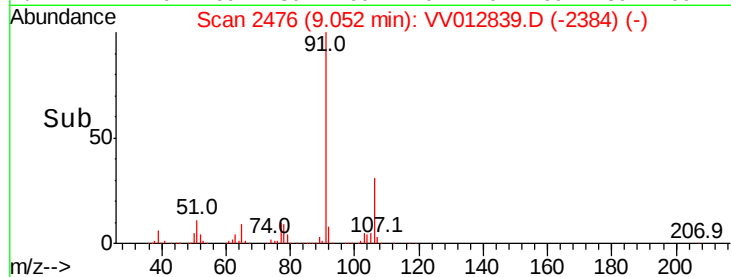
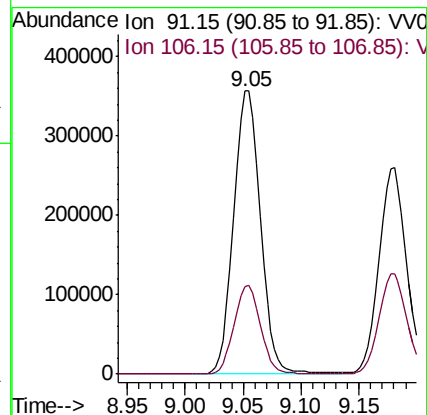
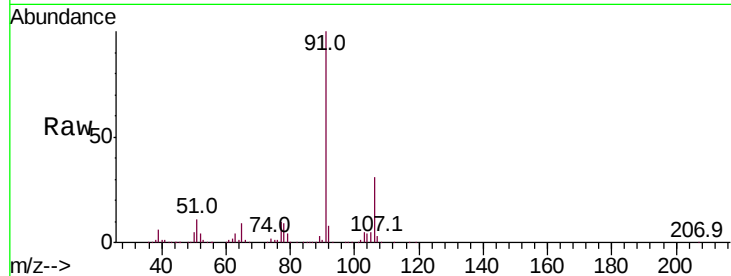
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 570121

Ion Ratio Lower Upper

91 100

106 31.0 21.7 40.3



#53

m,p-xylene

Concen: 4.964 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012839.D

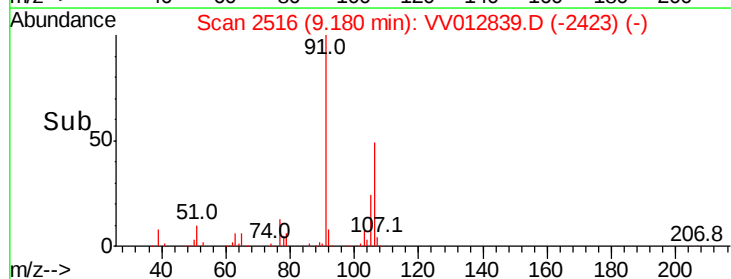
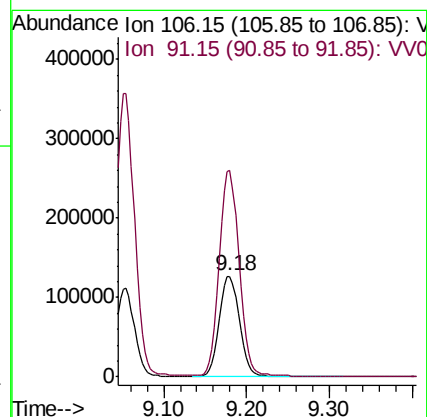
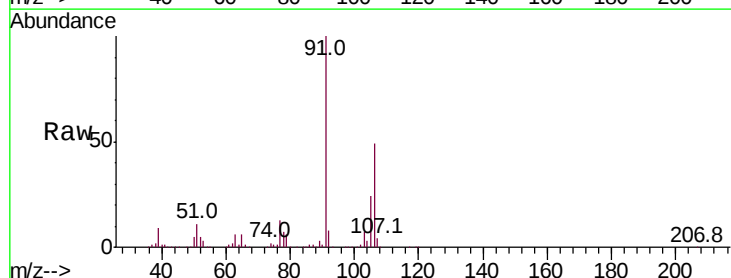
Acq: 16 Sep 2019 16:19

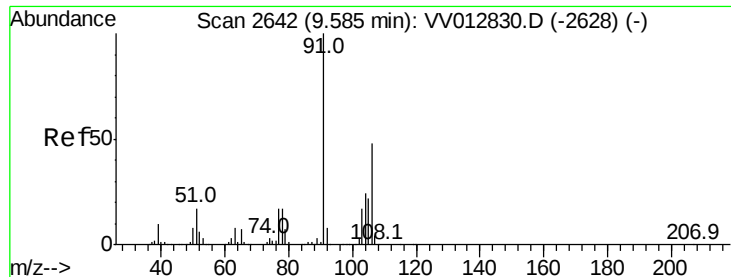
Tgt Ion: 106 Resp: 216262

Ion Ratio Lower Upper

106 100

91 205.1 138.9 258.1





#54

o-xylene

Concen: 5.006 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

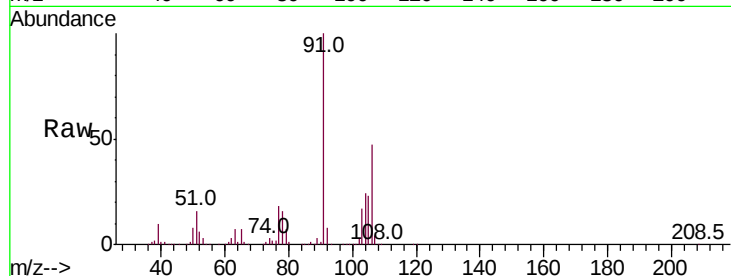
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 212082

Ion Ratio Lower Upper

106 100

91 211.8 147.4 273.8



Abundance Ion 106.15 (105.85 to 106.85): VV012839.D (-2549) (-)

Ion 91.15 (90.85 to 91.85): VV012839.D (-2549) (-)

300000

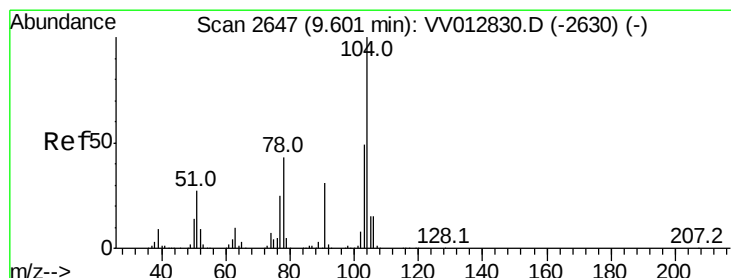
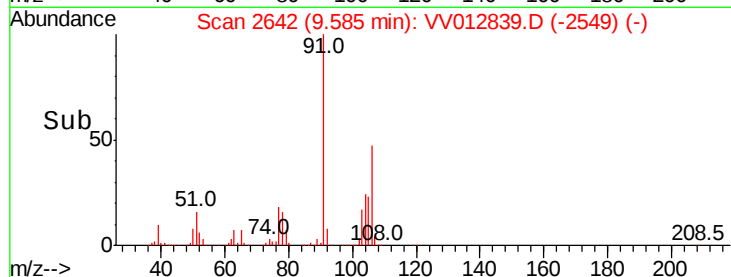
200000

100000

0

9.59

Time-->



#55

Styrene

Concen: 5.309 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012839.D

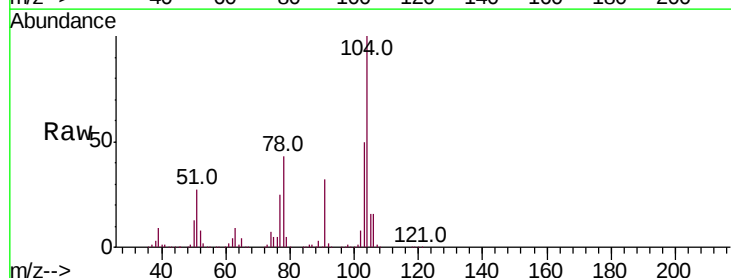
Acq: 16 Sep 2019 16:19

Tgt Ion:104 Resp: 381558

Ion Ratio Lower Upper

104 100

78 43.3 30.2 56.0



Abundance Ion 104.10 (103.80 to 104.80): VV012839.D (-2554) (-)

Ion 78.10 (77.80 to 78.80): VV012839.D (-2554) (-)

250000

200000

150000

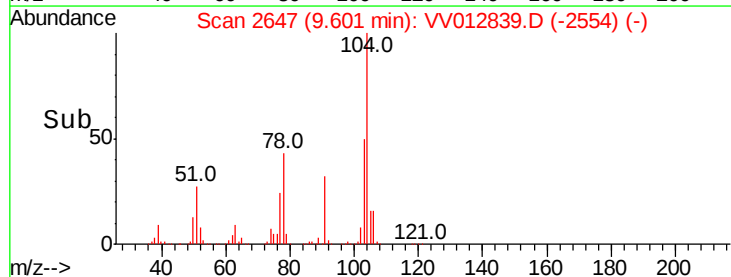
100000

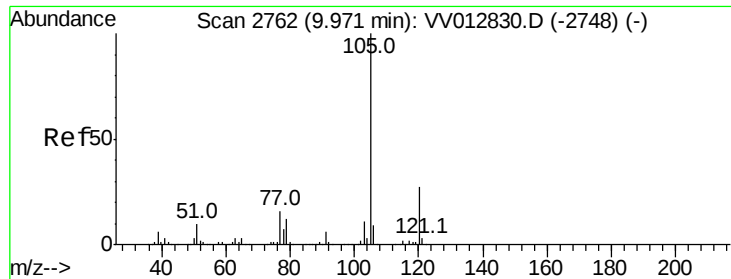
50000

0

9.60

Time-->





#56

Isopropylbenzene

Concen: 5.070 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Instrument :

MSVOA_V

ClientSampleId :

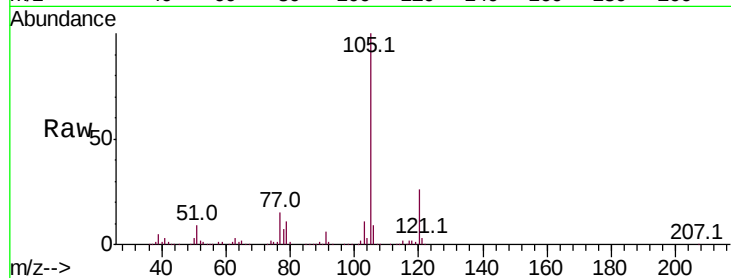
Tot Ion:105 Resp: 575886

Ion Ratio Lower Upper

105 100

120 26.5 21.0 31.4

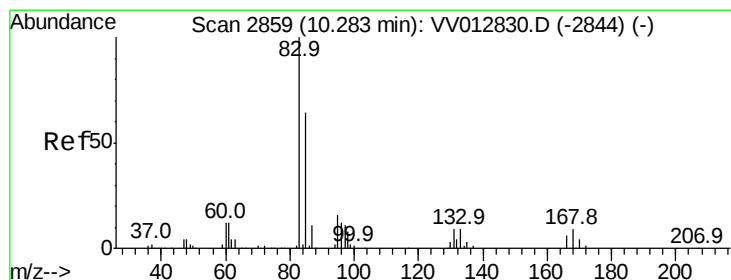
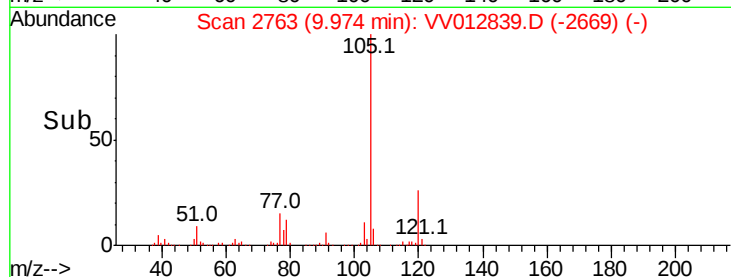
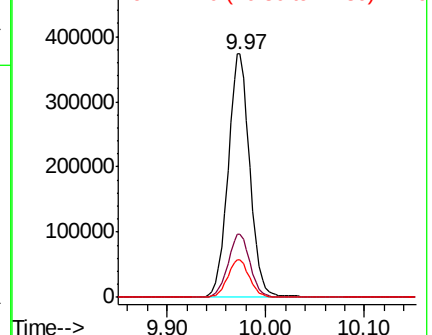
77 15.5 12.8 19.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.034 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

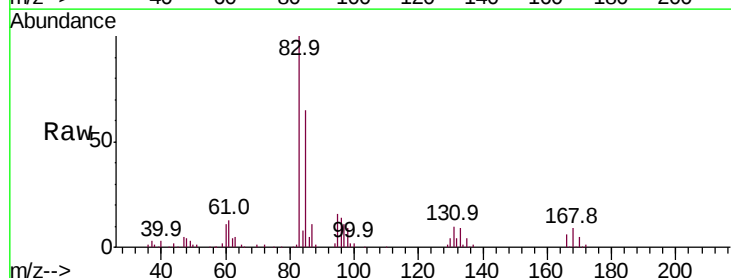
Tgt Ion: 83 Resp: 96699

Ion Ratio Lower Upper

83 100

85 64.8 44.1 81.9

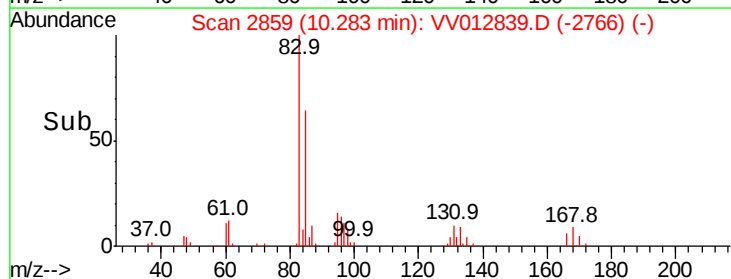
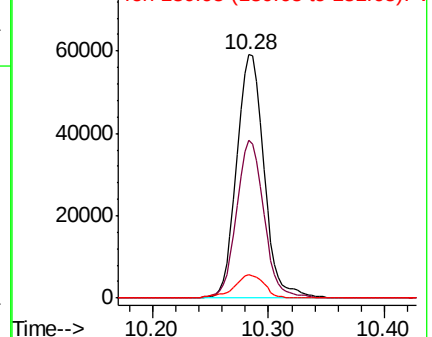
131 9.6 8.2 12.2

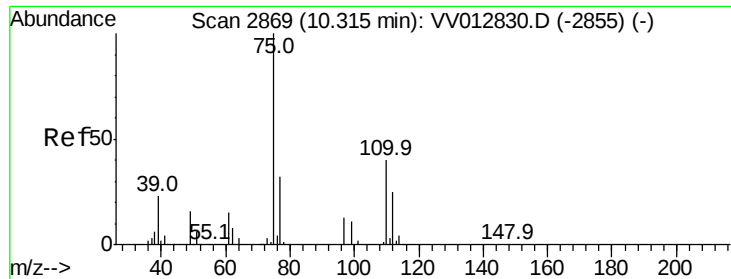


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.002 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Instrument :

MSVOA_V

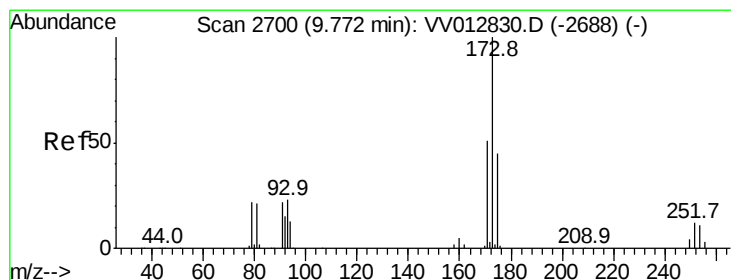
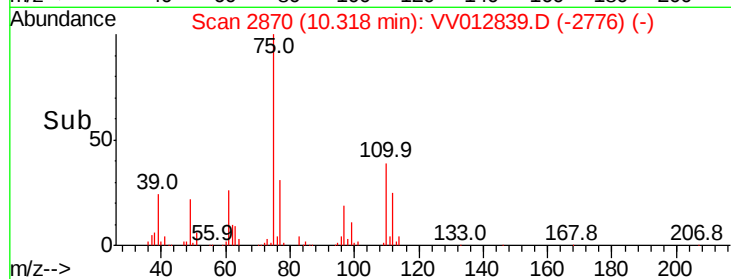
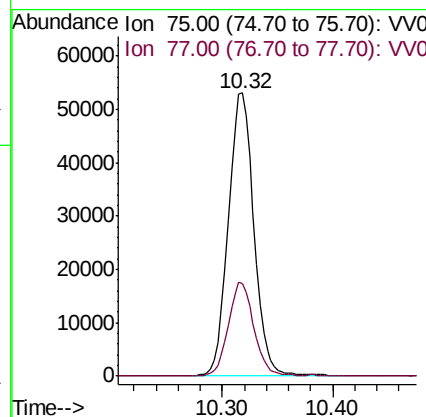
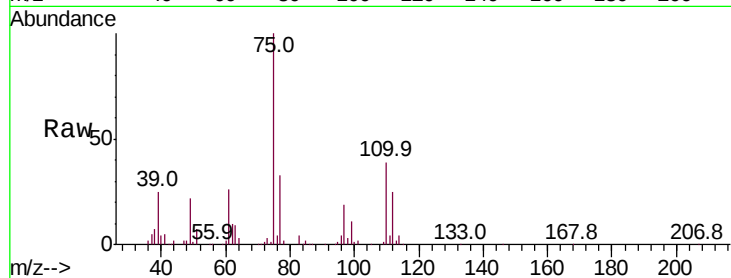
ClientSampleId :

Tot Ion: 75 Resp: 85763

Ion Ratio Lower Upper

75 100

77 32.3 25.5 38.3



#61

Bromoform

Concen: 4.626 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

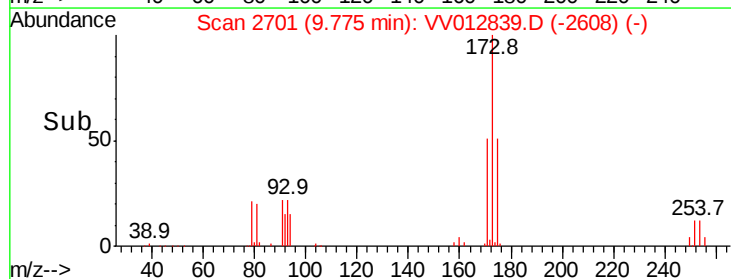
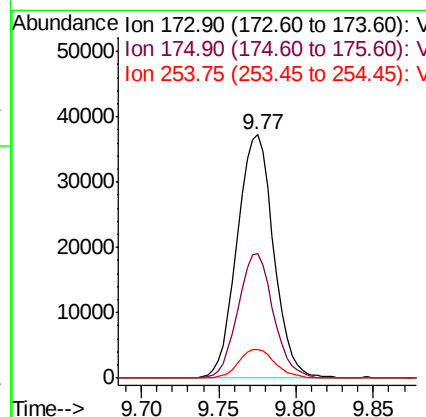
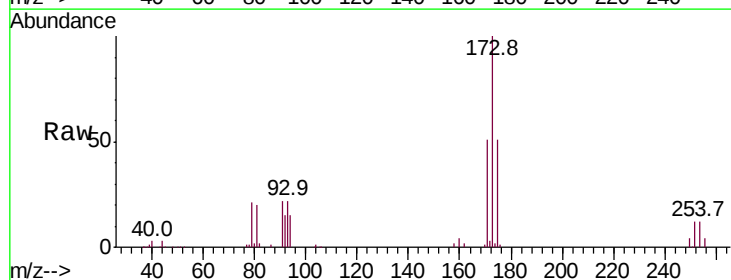
Tgt Ion: 173 Resp: 61141

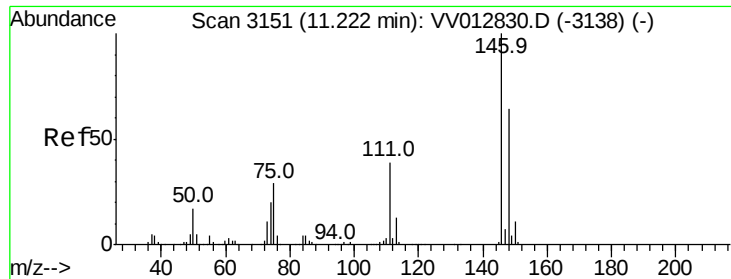
Ion Ratio Lower Upper

173 100

175 49.5 39.4 59.0

254 11.8 9.9 14.9





#62

1,3-Dichlorobenzene

Concen: 4.762 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. -0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Instrument :

MSVOA_V

ClientSampleId :

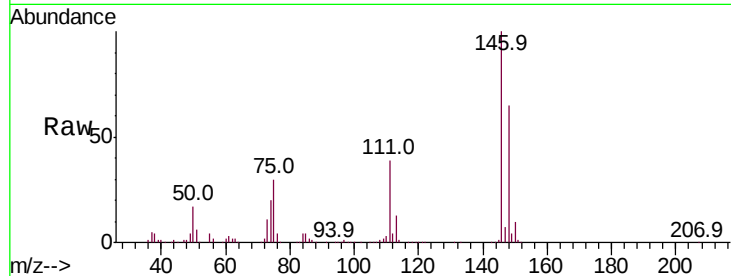
Tot Ion:146 Resp: 288869

Ion Ratio Lower Upper

146 100

111 38.7 26.0 48.4

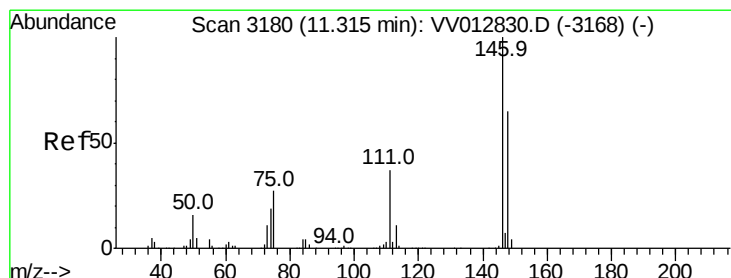
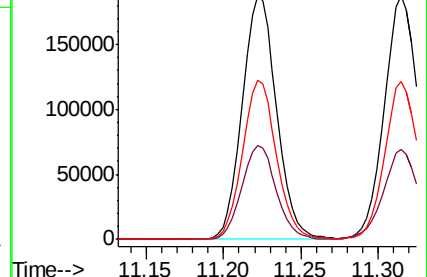
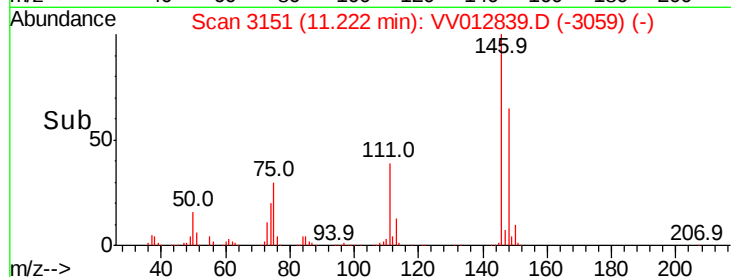
148 65.1 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.632 ug/L

RT: 11.32 min Scan# 3180

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

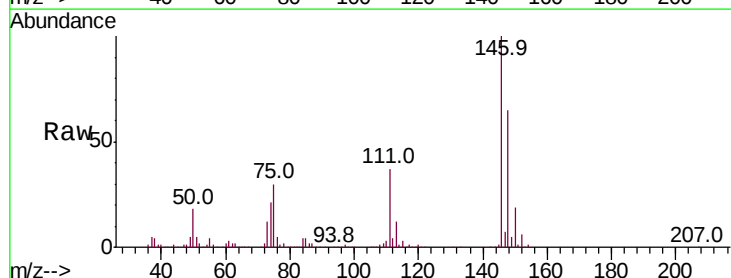
Tgt Ion:146 Resp: 290668

Ion Ratio Lower Upper

146 100

111 37.1 26.6 49.4

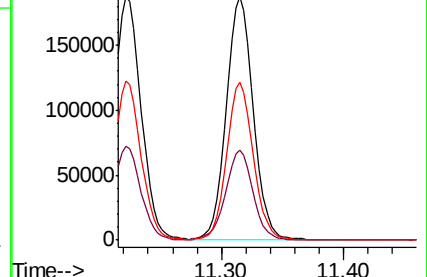
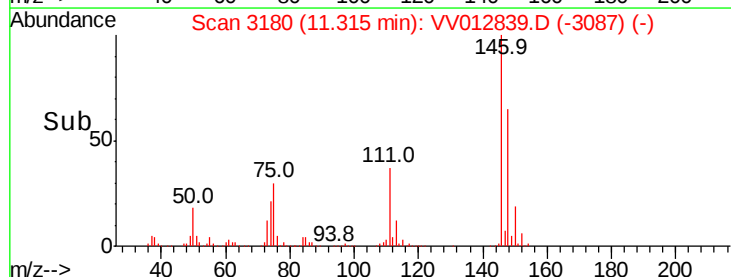
148 65.0 45.0 83.6

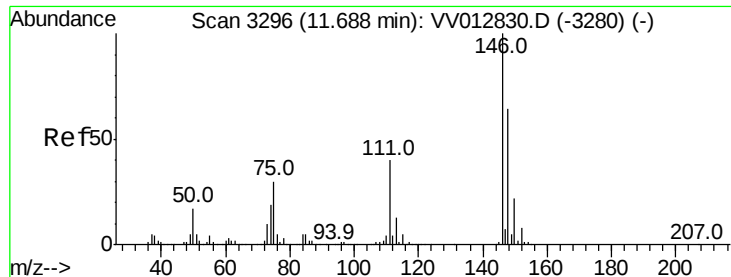


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.736 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. -0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Instrument :

MSVOA_V

ClientSampleId :

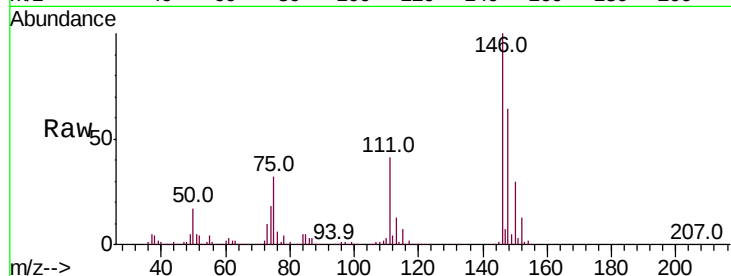
Tot Ion:146 Resp: 278315

Ion Ratio Lower Upper

146 100

111 41.2 31.4 47.2

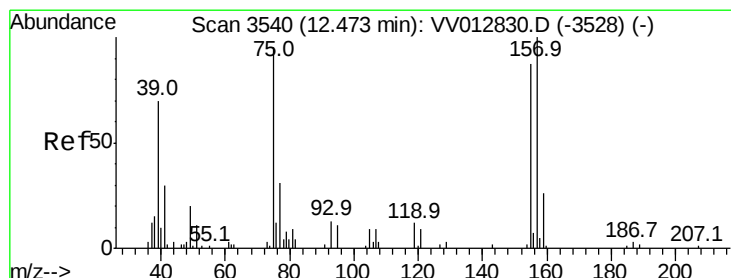
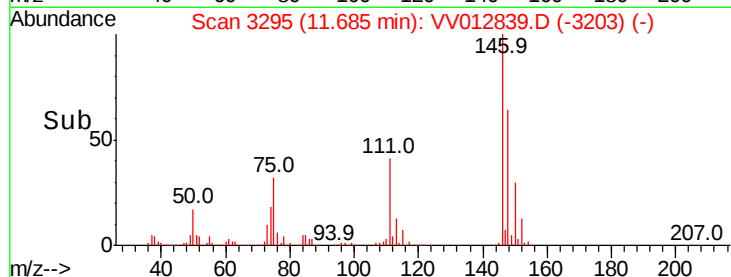
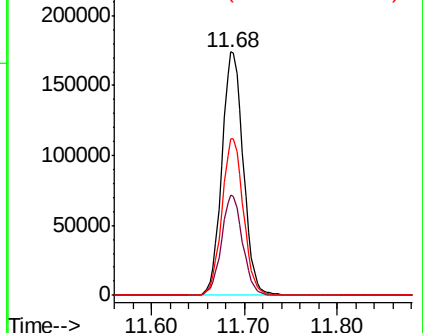
148 64.1 50.6 75.8



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 4.563 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

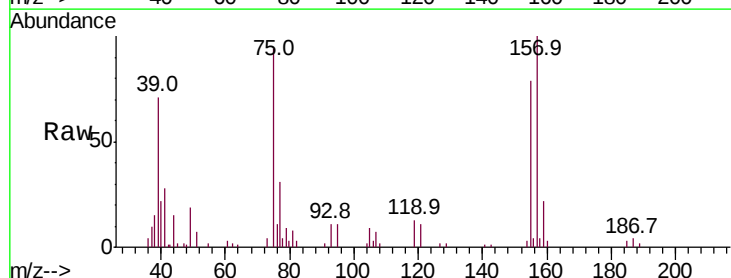
Tgt Ion: 75 Resp: 12855

Ion Ratio Lower Upper

75 100

155 84.8 63.0 94.4

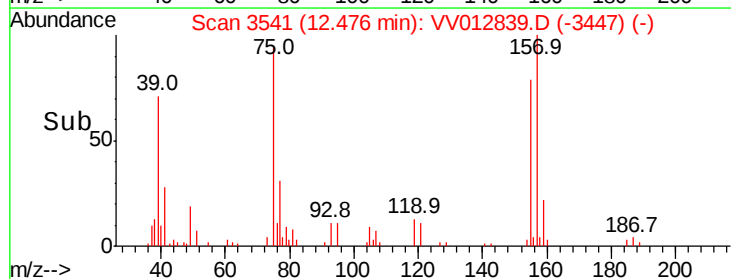
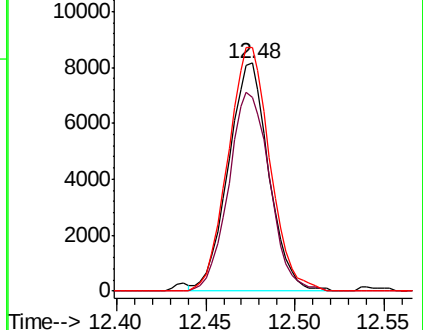
157 106.8 83.7 125.5

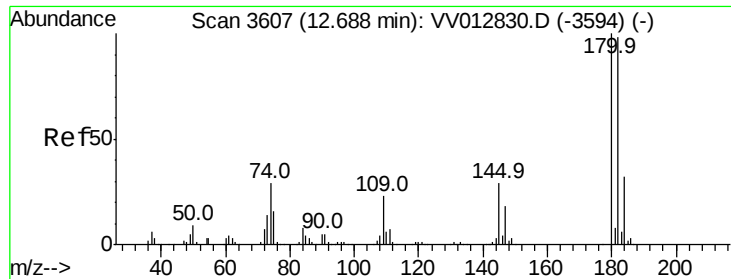


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

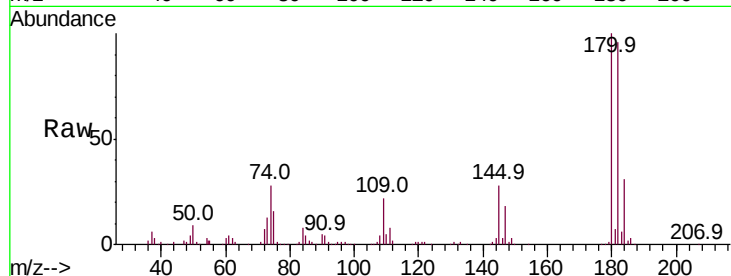




#67
 1,3,5-Trichlorobenzene
 Concen: 4.539 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	180	Resp:	211895
Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.7	115.1
184	30.5	24.4	36.6
145	28.0	22.3	33.5



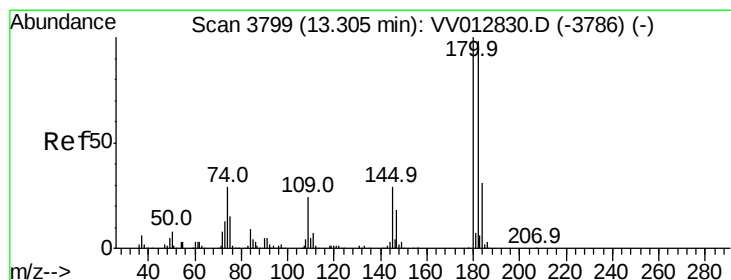
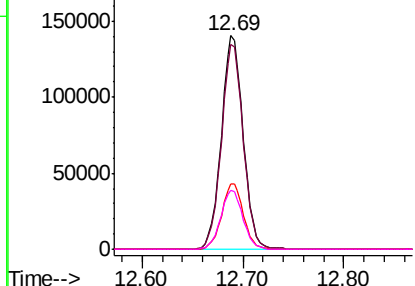
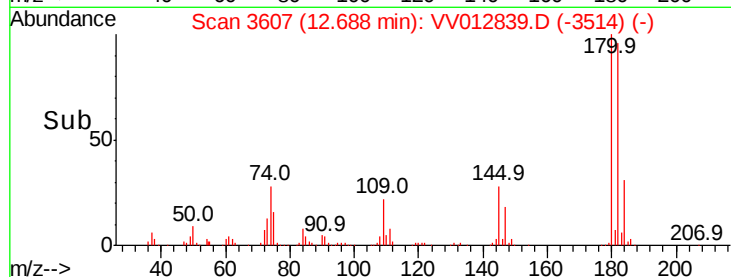
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

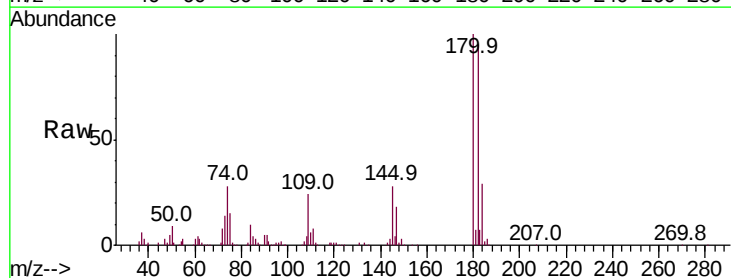
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.780 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV012839.D
 Acq: 16 Sep 2019 16:19

Tgt Ion:	180	Resp:	167342
Ion	Ratio	Lower	Upper
180	100		
182	93.8	76.2	114.4
145	27.8	22.2	33.4

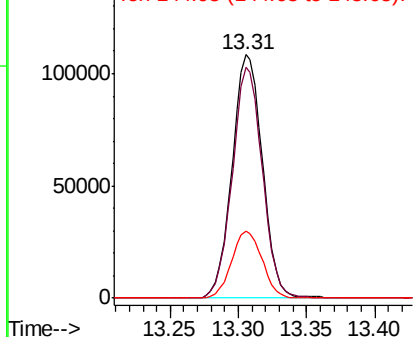
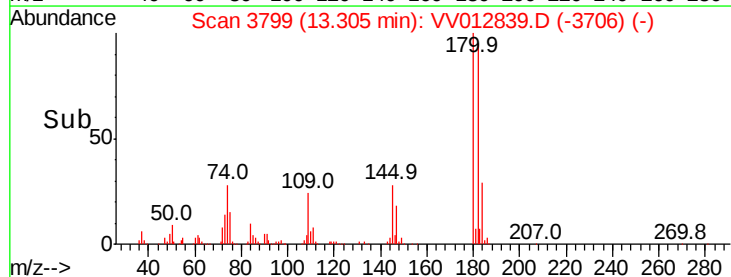


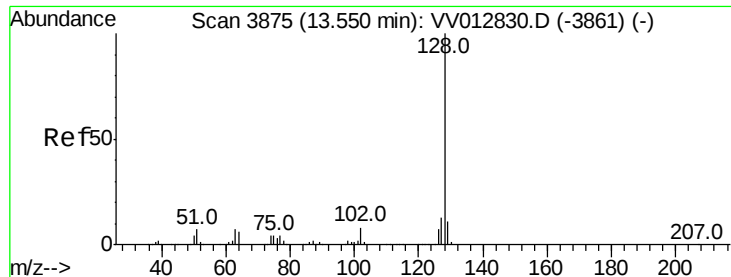
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.715 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

Instrument :

MSVOA_V

ClientSampleId :

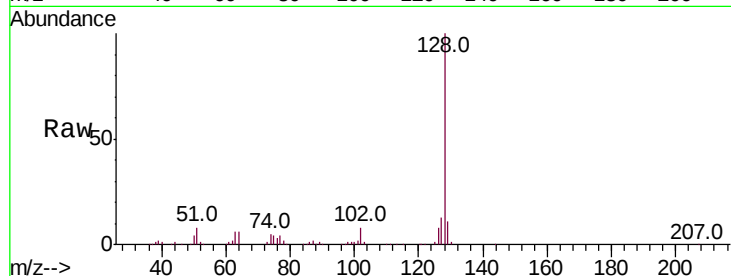
Tot Ion:128 Resp: 235994

Ion Ratio Lower Upper

128 100

129 11.1 8.3 12.5

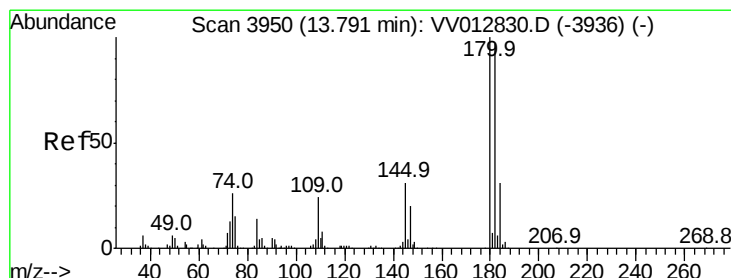
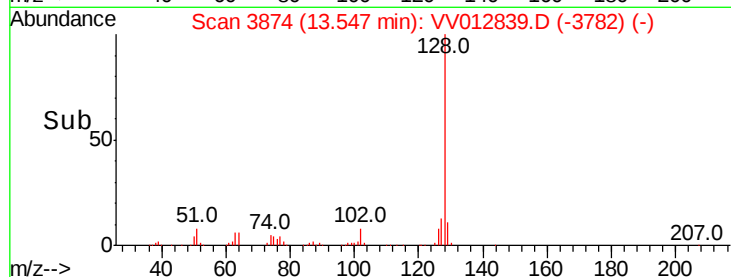
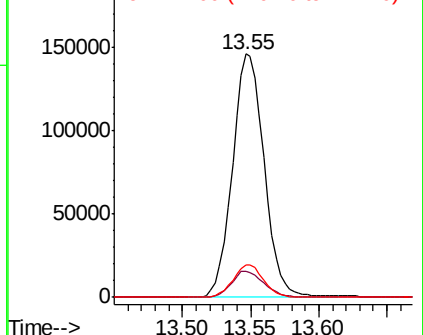
127 13.0 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.887 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012839.D

Acq: 16 Sep 2019 16:19

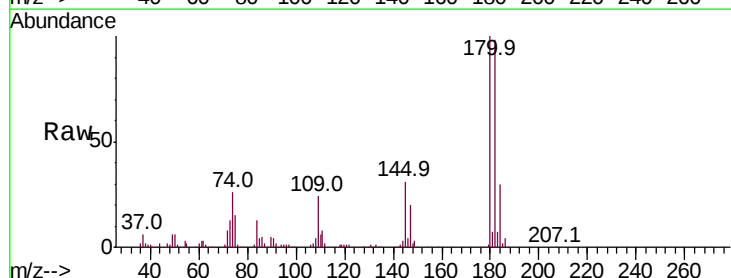
Tgt Ion:180 Resp: 166108

Ion Ratio Lower Upper

180 100

182 96.9 76.2 114.4

145 30.9 24.9 37.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

