

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100819\
 Data File : VV013055.D
 Acq On : 08 Oct 2019 09:53
 Operator : SY/MD
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

Quant Time: Oct 09 08:37:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Oct 08 17:11:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	723722	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	705094	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	385262	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	262519	23.38	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.52%
7) Chloroethane-d5	1.58	69	204554	22.53	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.12%
10) 1,1-Dichloroethene-d2	2.13	63	483577	25.90	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	103.60%
20) 2-Butanone-d5	3.93	46	188911	48.72	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.44%
24) Chloroform-d	4.40	84	515616	25.93	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	103.72%
26) 1,2-Dichloroethane-d4	5.07	65	284130	24.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.36%
29) Benzene-d6	5.09	84	1076693	27.35	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	109.40%
33) 1,2-Dichloropropane-d6	6.11	67	324701	26.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.24%
37) Toluene-d8	7.35	98	1008661	28.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	112.88%
38) trans-1,3-Dichloropropene-	7.66	79	142564	27.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	109.12%
39) 2-Hexanone-d5	8.13	63	135064	54.39	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.78%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	300820	25.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	102.68%
61) 1,2-Dichlorobenzene-d4	11.67	152	396206	26.47	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	105.88%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	218538	27.419	ug/L 100
3) Chloromethane	1.25	50	267514	25.701	ug/L 100
5) Vinyl chloride	1.32	62	273612	26.626	ug/L 99
6) Bromomethane	1.53	94	157385	24.534	ug/L 99
8) Chloroethane	1.60	64	168538	26.690	ug/L 100
9) Trichlorofluoromethane	1.77	101	372655	26.812	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	229919	25.882	ug/L 99
12) 1,1-Dichloroethene	2.14	96	215400	26.329	ug/L 95
13) Acetone	2.19	43	185779	45.081	ug/L 100
14) Carbon disulfide	2.32	76	638358	24.427	ug/L 100
15) Methyl Acetate	2.46	43	145663	22.790	ug/L 99
16) Methylene chloride	2.53	84	280010	25.885	ug/L 96
17) Methyl tert-butyl Ether	2.80	73	616387	25.678	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	247354	25.543	ug/L 98
19) 1,1-Dichloroethane	3.23	63	461366	26.108	ug/L 99
21) 2-Butanone	4.02	43	206228	43.001	ug/L 96
22) cis-1,2-Dichloroethene	3.96	96	279330	26.356	ug/L 98

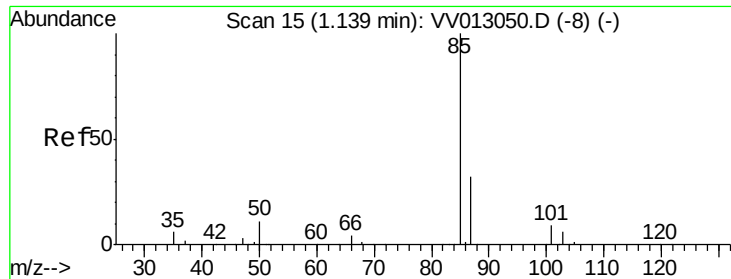
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100819\
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	132860	25.380	ug/L	99
25) Chloroform	4.42	83	477782	25.786	ug/L	100
27) 1,2-Dichloroethane	5.17	62	328949	25.119	ug/L	100
30) Cyclohexane	4.72	56	400186	26.455	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	381013	27.303	ug/L	99
32) Carbon tetrachloride	4.87	117	342692	27.083	ug/L	100
34) Benzene	5.14	78	1068321	27.219	ug/L	100
35) Trichloroethene	5.96	95	282270	25.817	ug/L	99
36) Methylcyclohexane	6.17	83	440871	26.267	ug/L	99
40) 1,2-Dichloropropane	6.22	63	268405	26.297	ug/L	100
41) Bromodichloromethane	6.55	83	351358	26.876	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	412577	27.510	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	416755	49.699	ug/L	98
44) Toluene	7.43	91	1161738	28.065	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	342025	27.097	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	220853	25.488	ug/L	99
47) Tetrachloroethene	8.02	164	238159	26.801	ug/L	99
49) 2-Hexanone	8.18	43	308888	48.867	ug/L	98
50) Dibromochloromethane	8.29	129	263182	26.426	ug/L	97
51) 1,2-Dibromoethane	8.39	107	221871	26.129	ug/L	99
52) Chlorobenzene	8.92	112	758774	26.562	ug/L	98
53) Ethylbenzene	9.05	91	1265724	27.771	ug/L	100
54) m,p-Xylene	9.18	106	492295	28.412	ug/L	98
55) o-xylene	9.58	106	470210	28.481	ug/L	99
56) Styrene	9.60	104	834592	28.731	ug/L	98
57) Isopropylbenzene	9.97	105	1252268	28.862	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	275397	25.694	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	219658	24.829	ug/L	99
62) Bromoform	9.77	173	169718	25.960	ug/L	98
63) 1,3-Dichlorobenzene	11.22	146	629886	26.561	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	645703	25.943	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	594974	26.303	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	47051	23.462	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	497120	26.798	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	423226	26.091	ug/L	99
69) Naphthalene	13.55	128	832189	25.507	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	404185	25.916	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 27.419 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

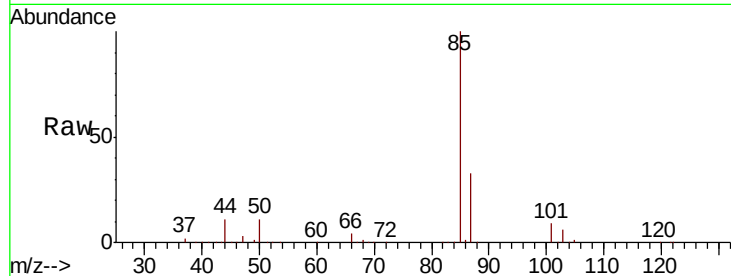
VSTD02586

Tot Ion: 85 Resp: 218538

Ion Ratio Lower Upper

85 100

87 32.9 23.2 43.0



Abundance Ion 85.00 (84.70 to 85.70): VV013050.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV013050.D (-8) (-)

1.14

250000

200000

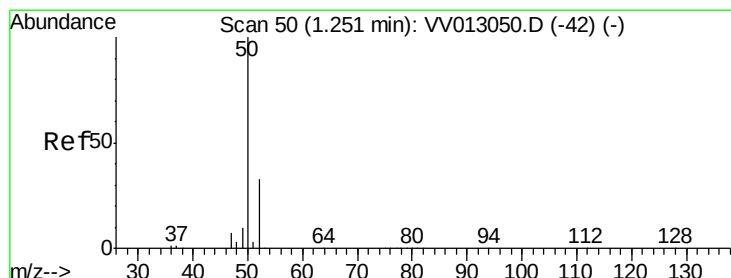
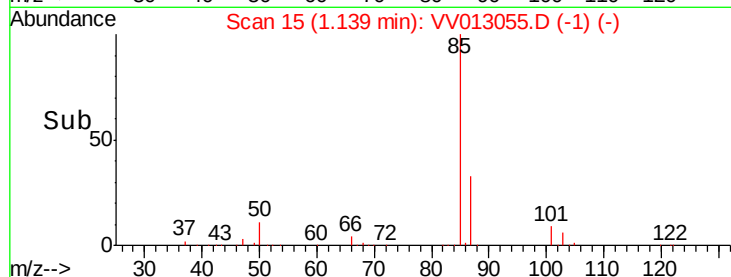
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 25.701 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV013055.D

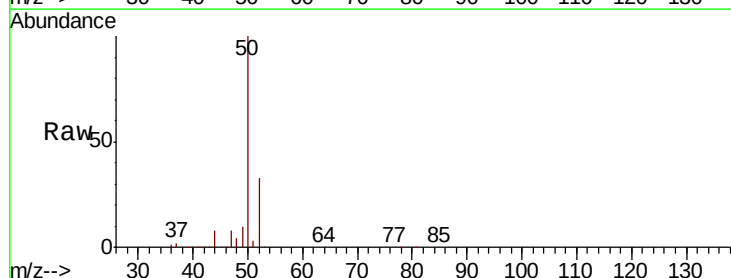
Acq: 08 Oct 2019 09:53

Tgt Ion: 50 Resp: 267514

Ion Ratio Lower Upper

50 100

52 32.6 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV013050.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV013050.D (-42) (-)

1.25

250000

200000

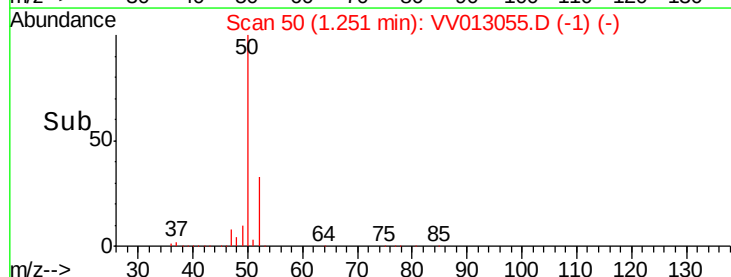
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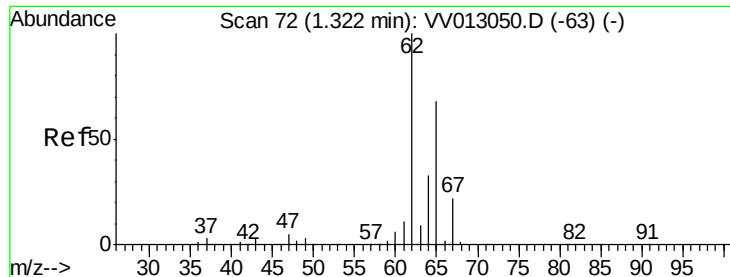
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 26.626 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

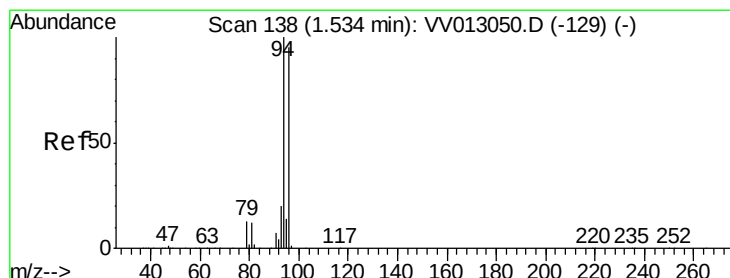
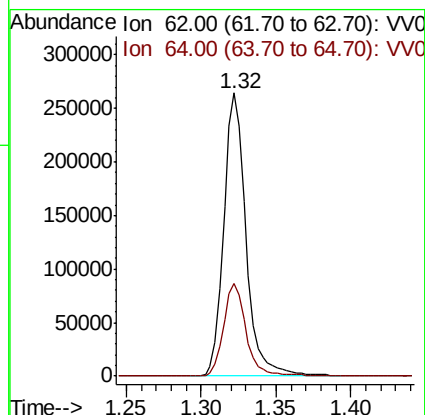
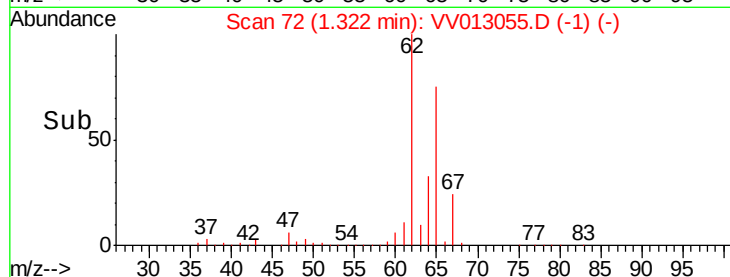
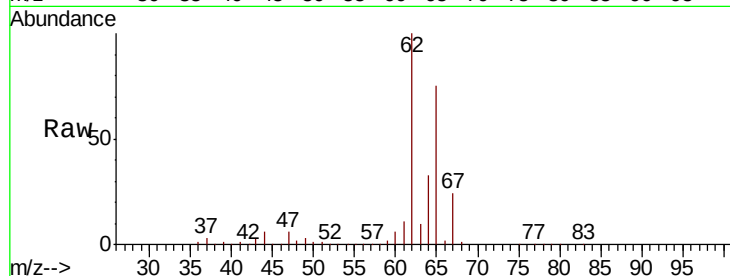
VSTD02586

Tot Ion: 62 Resp: 273612

Ion Ratio Lower Upper

62 100

64 32.7 22.7 42.1



#6

Bromomethane

Concen: 24.534 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV013055.D

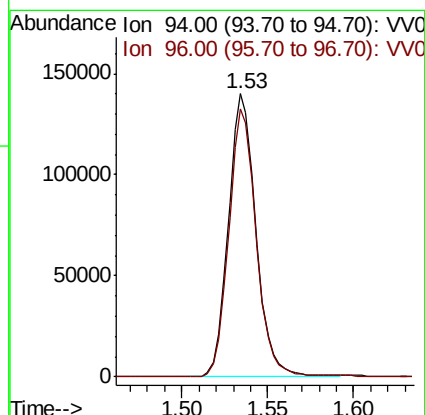
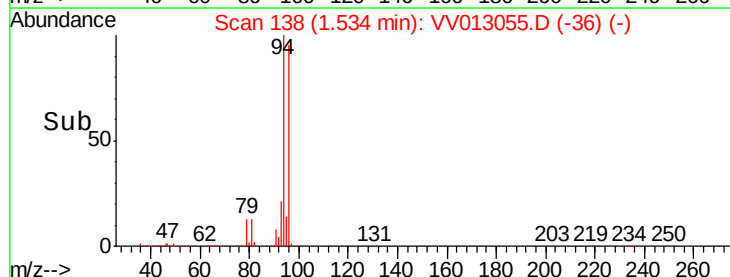
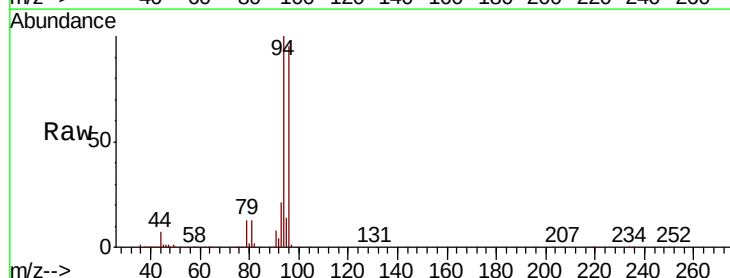
Acq: 08 Oct 2019 09:53

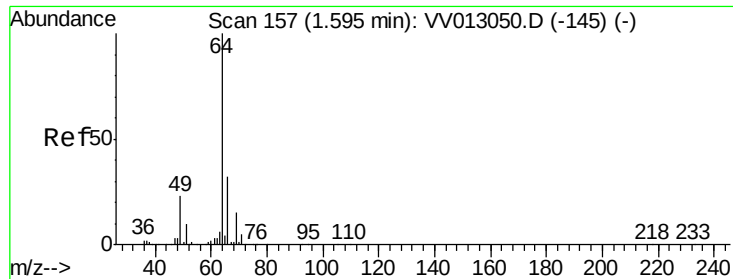
Tgt Ion: 94 Resp: 157385

Ion Ratio Lower Upper

94 100

96 94.2 9.4 177.8

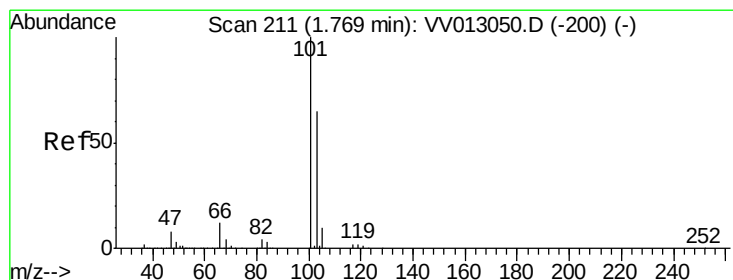
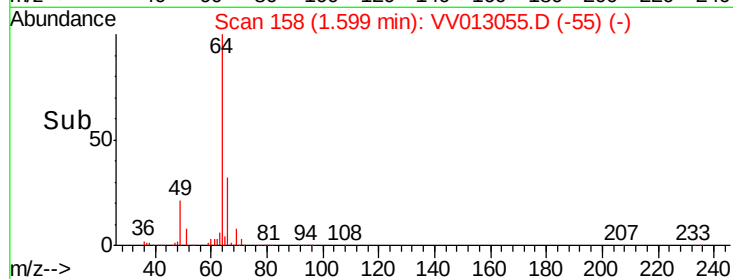
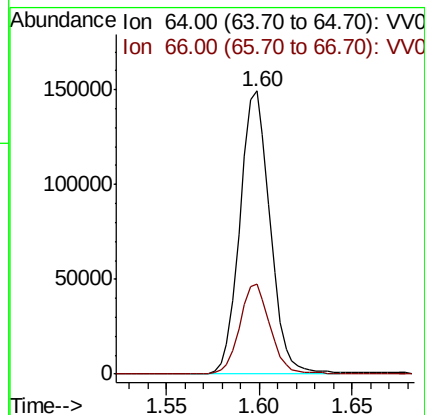
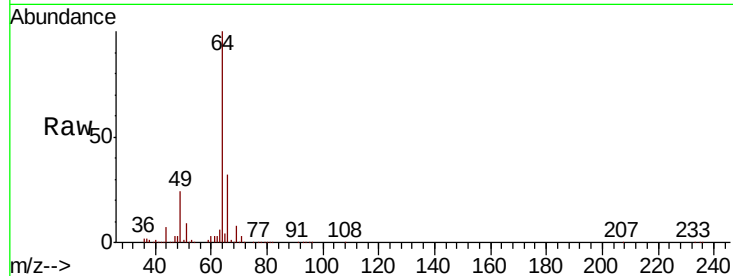




#8
Chloroethane
Concen: 26.690 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV013055.D
Acq: 08 Oct 2019 09:53

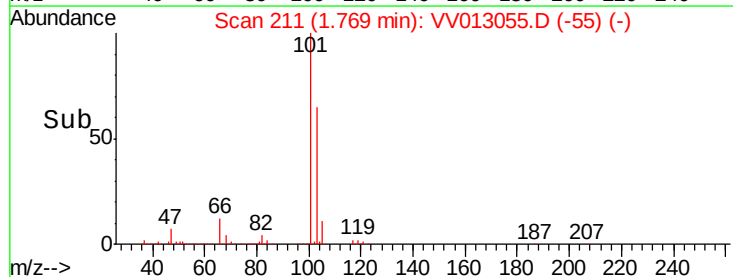
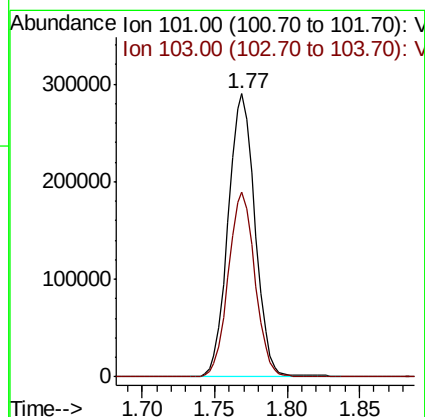
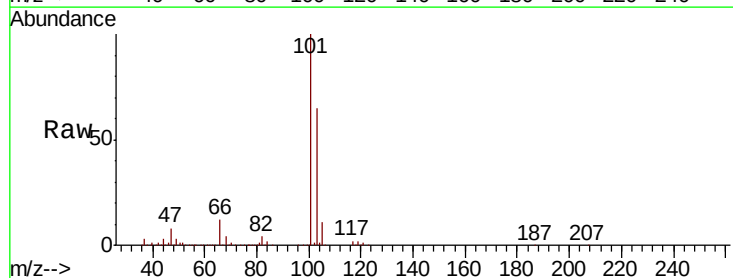
Instrument :
MSVOA_V
ClientSampleId :
VSTD02586

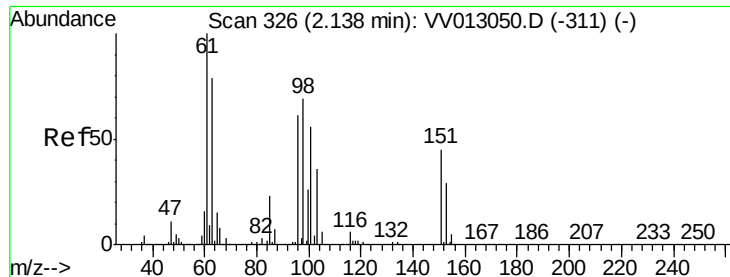
Tot Ion: 64 Resp: 168538
Ion Ratio Lower Upper
64 100
66 31.6 22.2 41.2



#9
Trichlorofluoromethane
Concen: 26.812 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV013055.D
Acq: 08 Oct 2019 09:53

Tgt Ion: 101 Resp: 372655
Ion Ratio Lower Upper
101 100
103 64.6 45.1 83.9





#11

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

Concen: 25.882 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

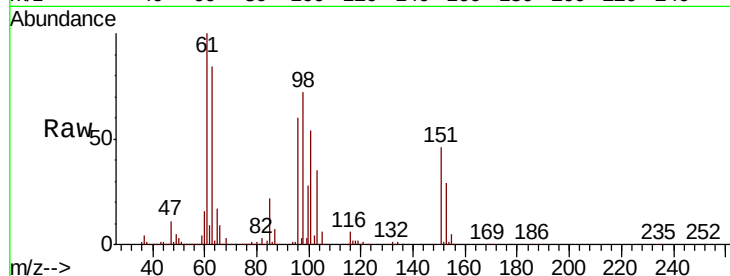
Tot Ion:101 Resp: 229919

Ion Ratio Lower Upper

101 100

85 41.1 32.6 49.0

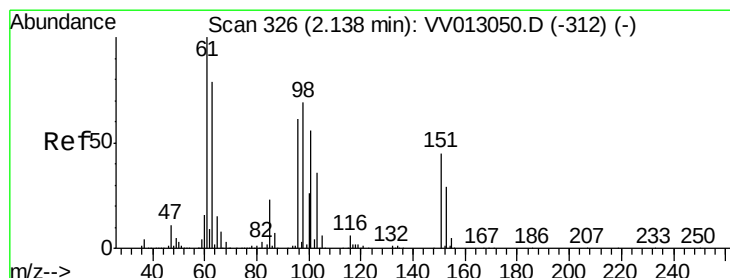
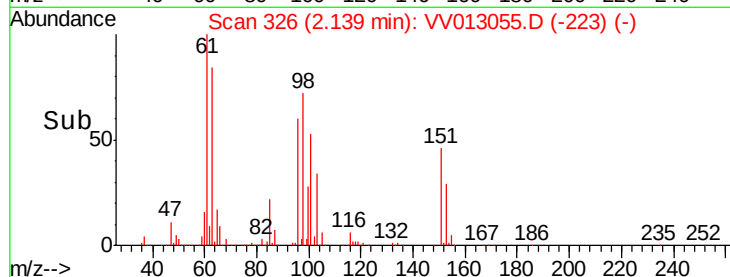
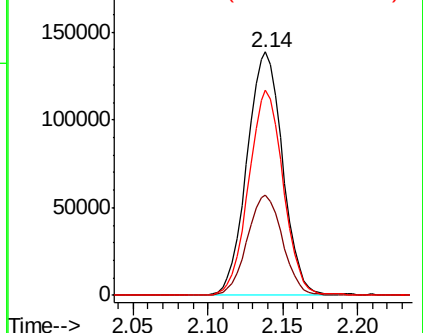
151 82.1 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV013055.D (-223) (-)

Ion 85.00 (84.70 to 85.70): VV013055.D (-223) (-)

Ion 151.00 (150.70 to 151.70): VV013055.D (-223) (-)



#12

1,1-Dichloroethene

Concen: 26.329 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

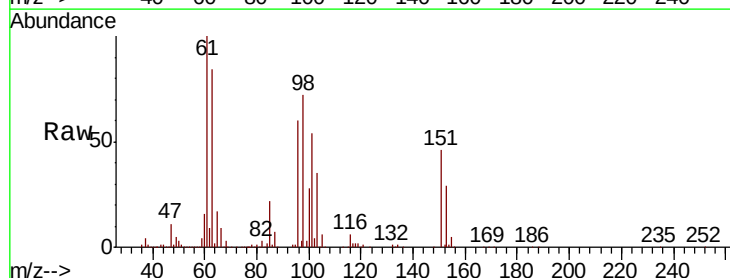
Tgt Ion: 96 Resp: 215400

Ion Ratio Lower Upper

96 100

61 167.4 117.2 217.8

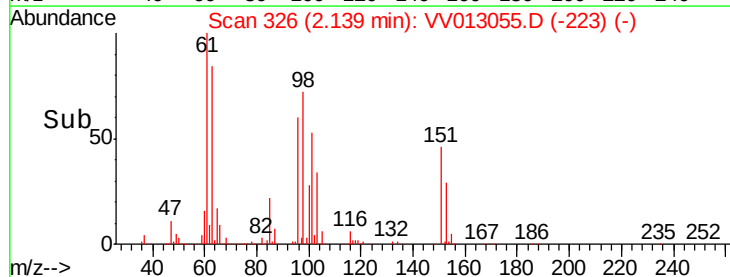
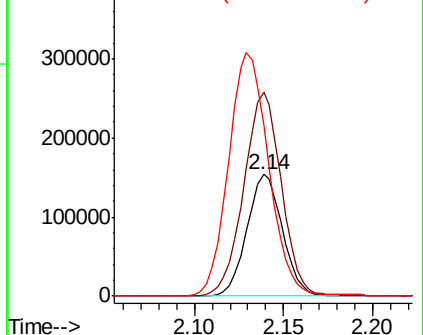
63 140.5 89.6 166.4

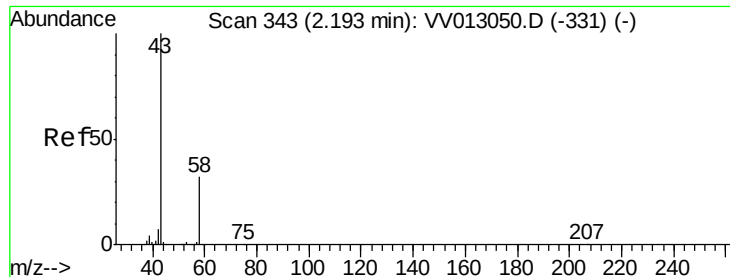


Abundance Ion 96.00 (95.70 to 96.70): VV013055.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV013055.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV013055.D (-223) (-)





#13

Acetone

Concen: 45.081 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.01 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

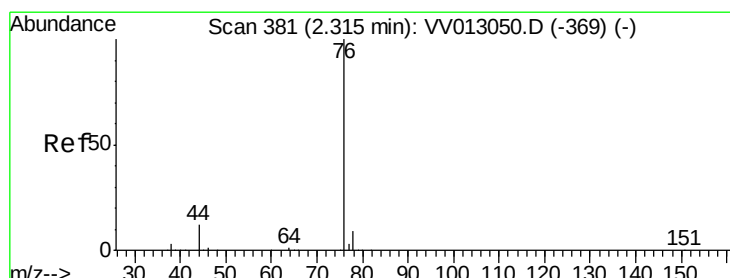
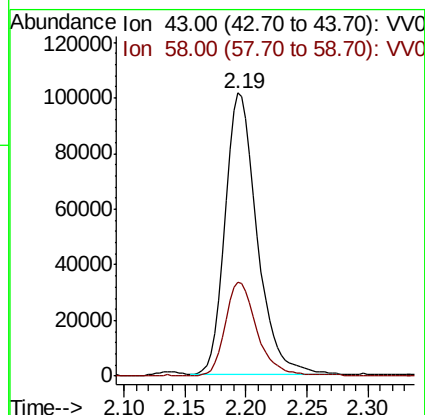
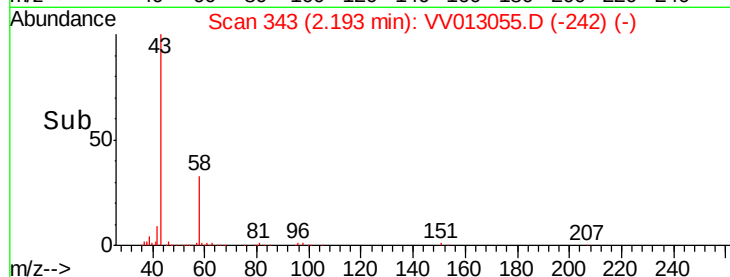
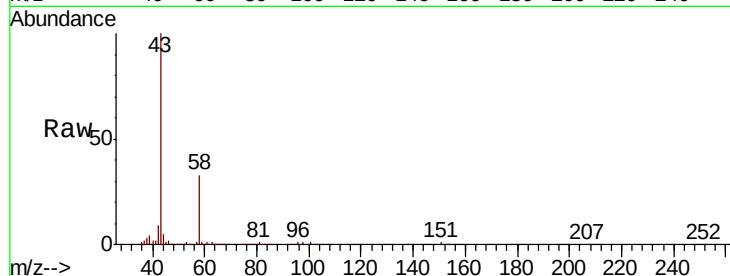
VSTD02586

Tot Ion: 43 Resp: 185779

Ion Ratio Lower Upper

43 100

58 32.4 0.0 65.0



#14

Carbon disulfide

Concen: 24.427 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV013055.D

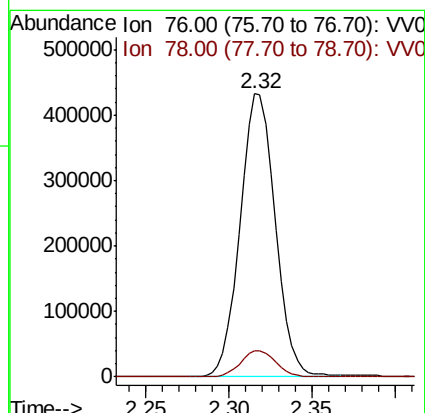
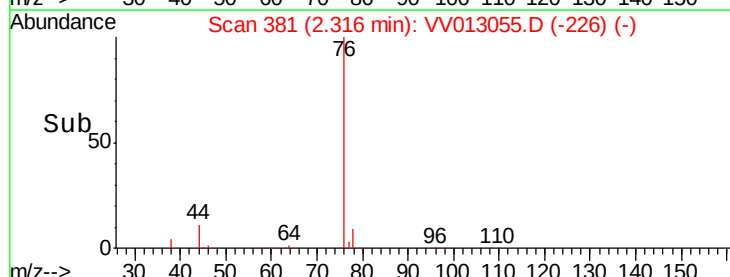
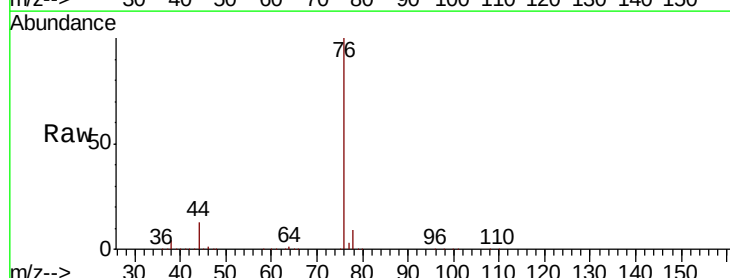
Acq: 08 Oct 2019 09:53

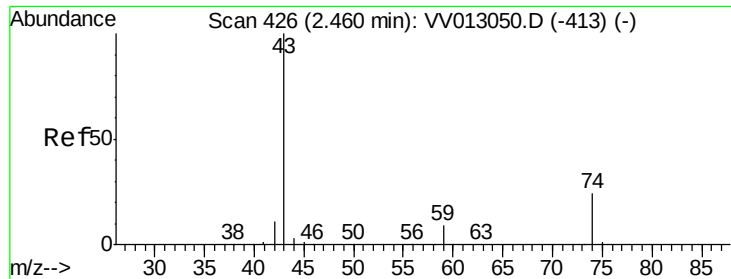
Tgt Ion: 76 Resp: 638358

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9





#15

Methvl Acetate

Concen: 22.790 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.01 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

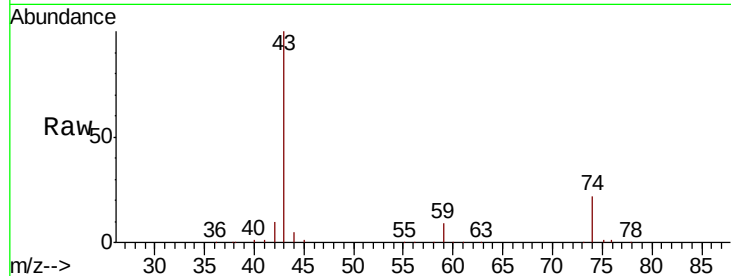
VSTD02586

Tot Ion: 43 Resp: 145663

Ion Ratio Lower Upper

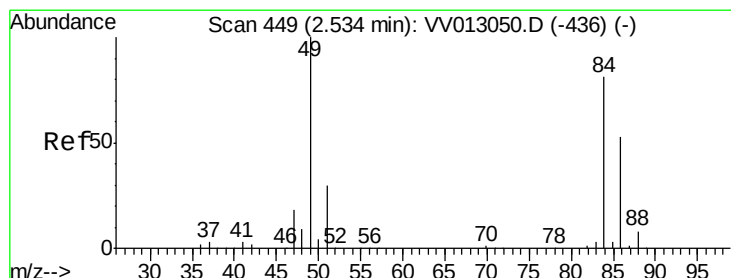
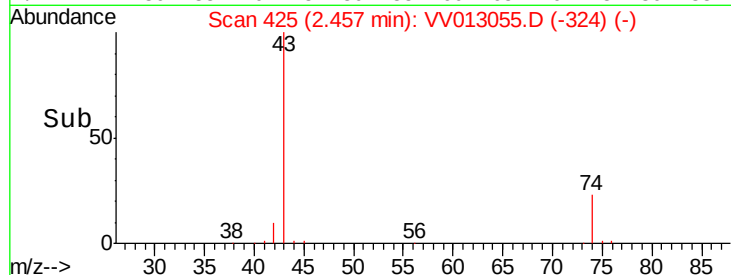
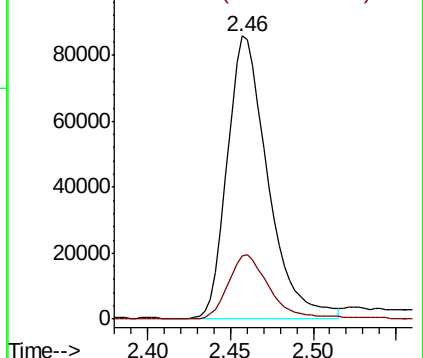
43 100

74 23.9 18.8 28.2



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 25.885 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

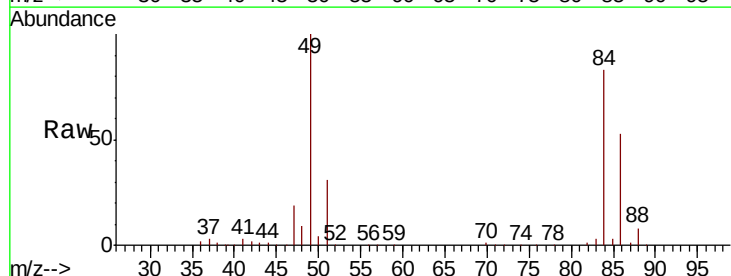
Tgt Ion: 84 Resp: 280010

Ion Ratio Lower Upper

84 100

49 120.3 88.3 164.1

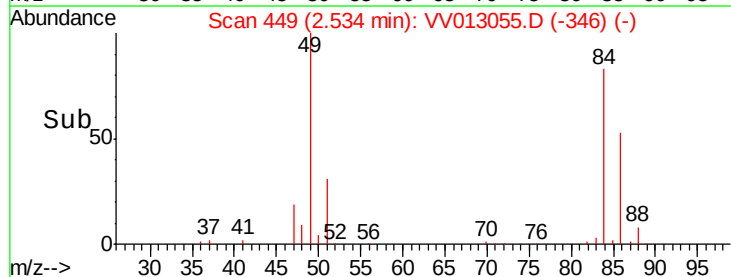
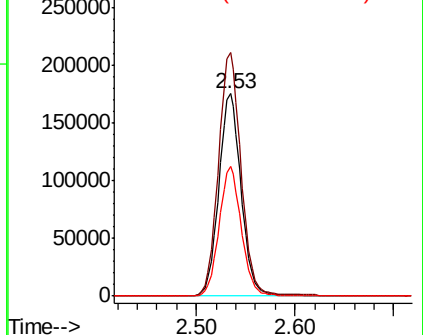
86 63.8 44.9 83.3

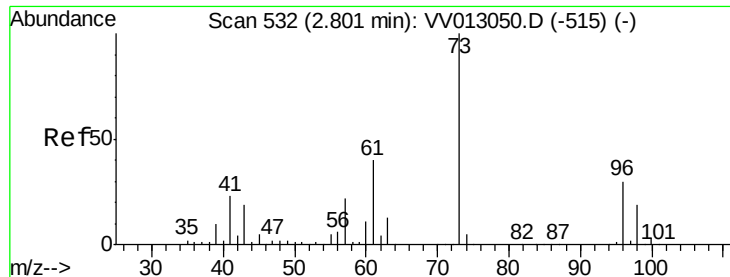


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

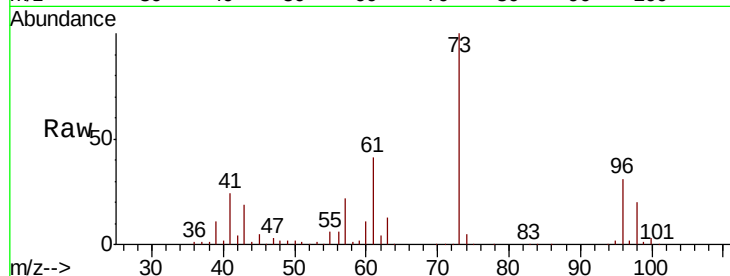




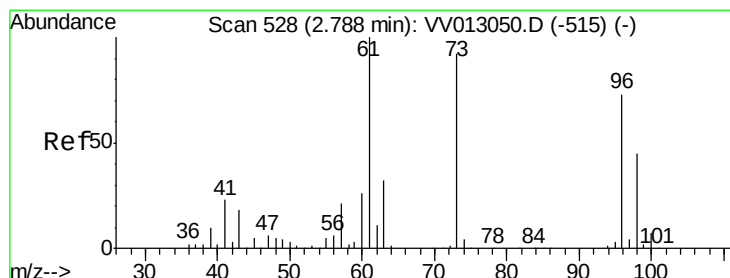
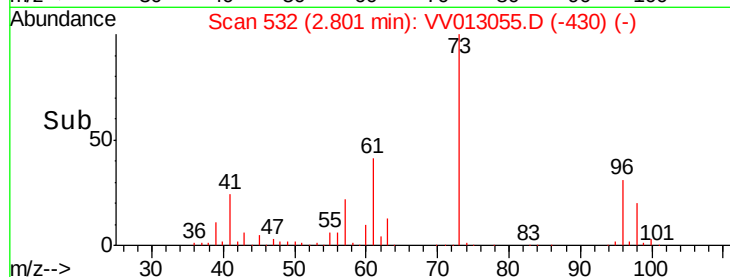
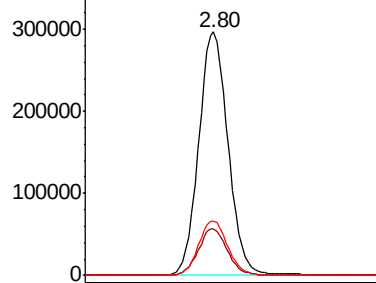
#17
Methyl tert-butyl Ether
Concen: 25.678 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.00 min
Lab File: VV013055.D
Acq: 08 Oct 2019 09:53

Instrument :
MSVOA_V
ClientSampleId :
VSTD02586

Tot Ion: 73 Resp: 616387
Ion Ratio Lower Upper
73 100
43 18.6 15.0 22.6
57 22.3 18.3 27.5

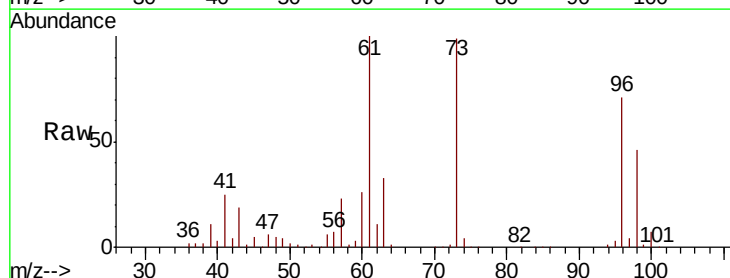


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

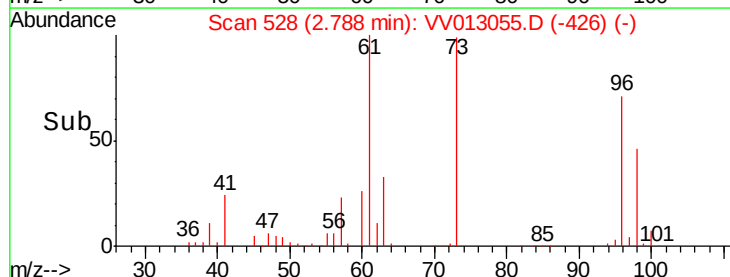
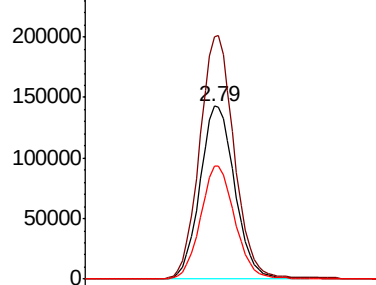


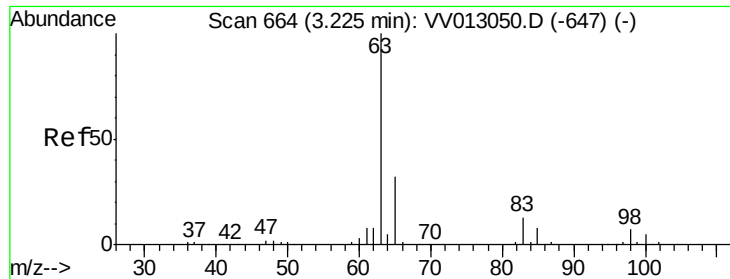
#18
trans-1,2-Dichloroethene
Concen: 25.543 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV013055.D
Acq: 08 Oct 2019 09:53

Tgt Ion: 96 Resp: 247354
Ion Ratio Lower Upper
96 100
61 140.6 96.8 179.8
98 65.1 44.8 83.2



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

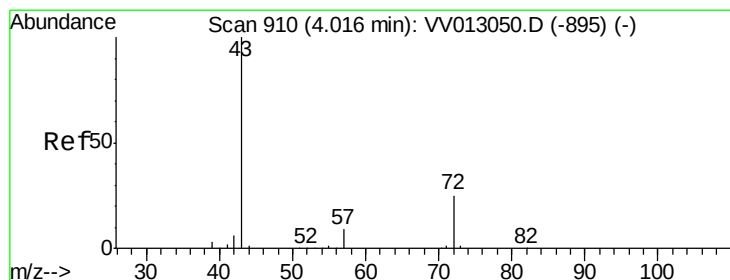
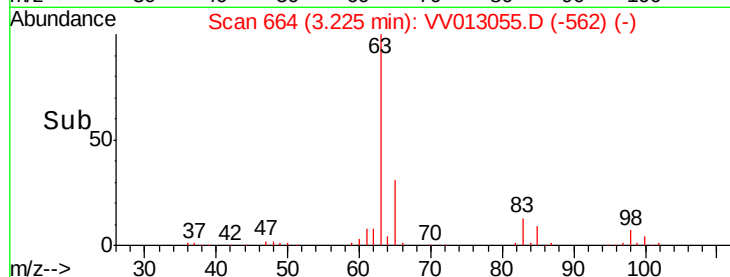
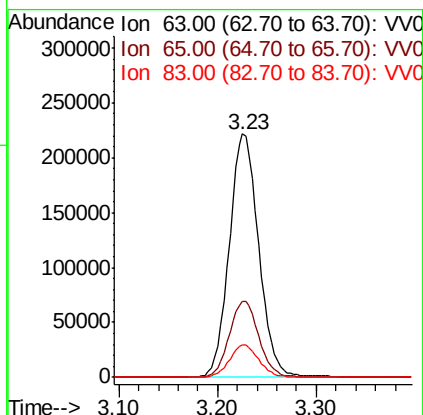
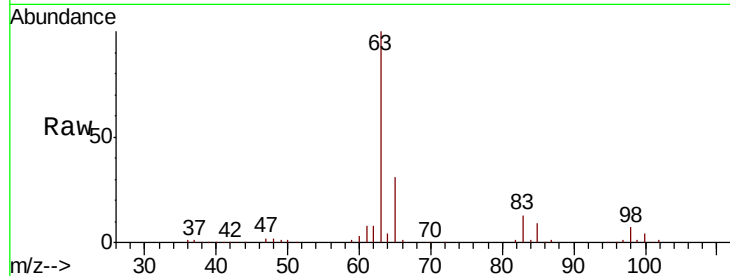




#19
 1,1-Dichloroethane
 Concen: 26.108 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

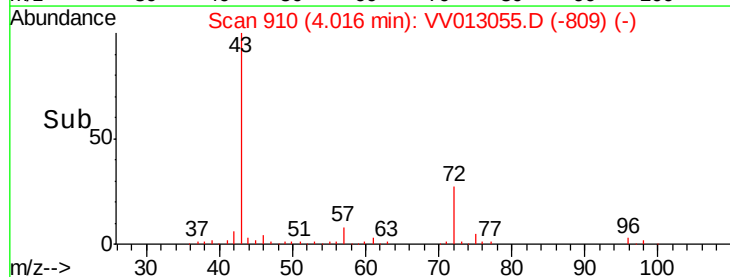
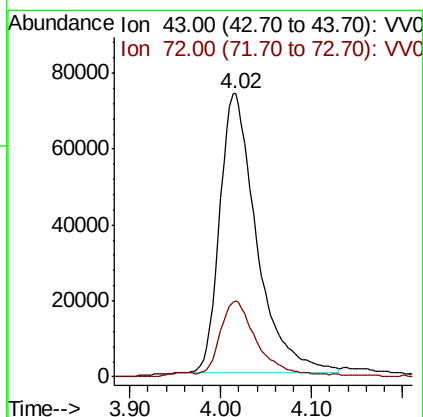
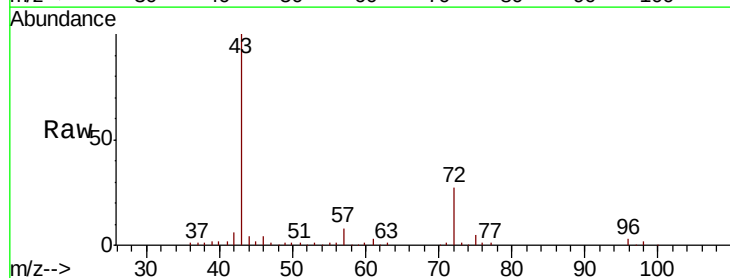
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

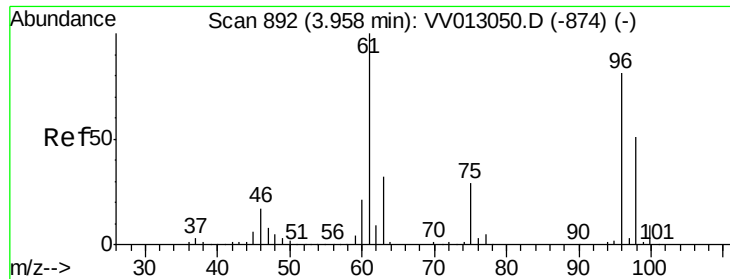
Tot Ion: 63 Resp: 461366
 Ion Ratio Lower Upper
 63 100
 65 31.2 22.0 41.0
 83 13.4 9.2 17.0



#21
 2-Butanone
 Concen: 43.001 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. -0.01 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

Tgt Ion: 43 Resp: 206228
 Ion Ratio Lower Upper
 43 100
 72 26.1 11.9 35.9



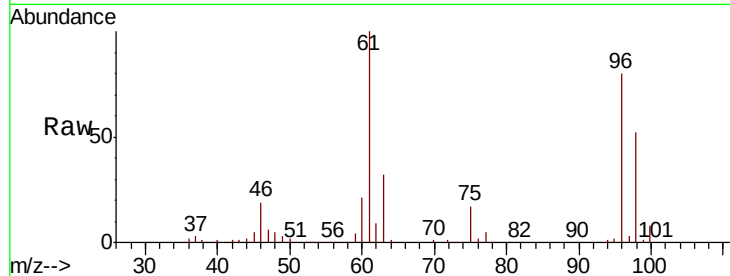


#22

cis-1,2-Dichloroethene
 Concen: 26.356 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

Tot Ion	Ratio	Lower	Upper
96	100		
61	125.7	90.9	168.7
98	65.0	45.6	84.6

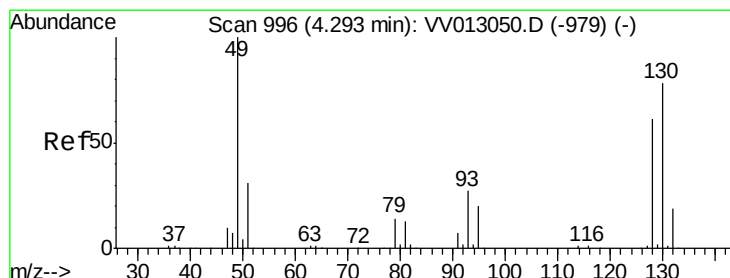
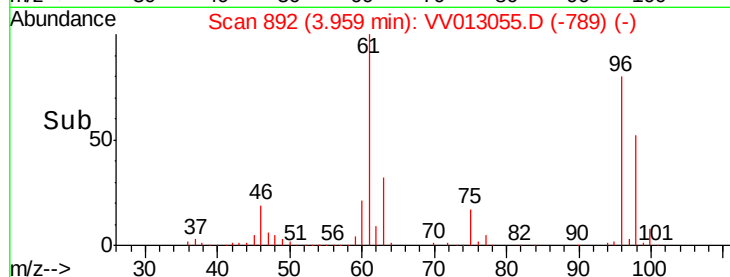
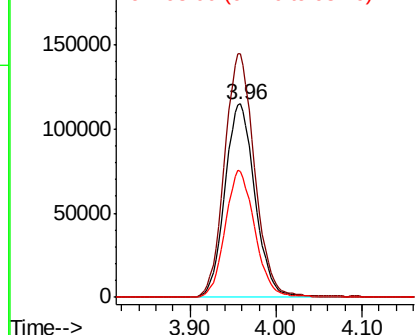


Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

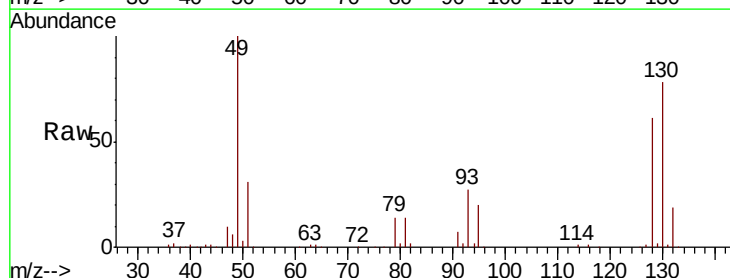
Ion 98.00 (97.70 to 98.70): VV0



#23

Bromochloromethane
 Concen: 25.380 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

Tgt Ion	Ratio	Lower	Upper
128	100		
49	163.9	114.4	212.6
130	128.6	88.5	164.4
51	51.0	41.4	62.2



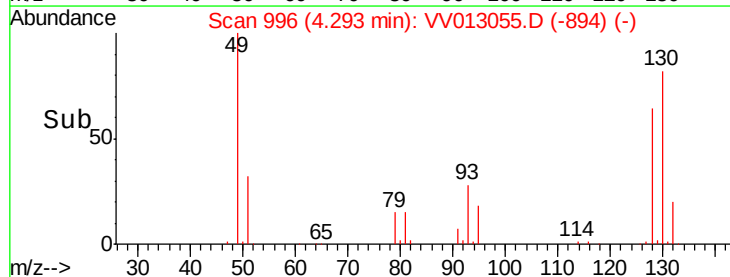
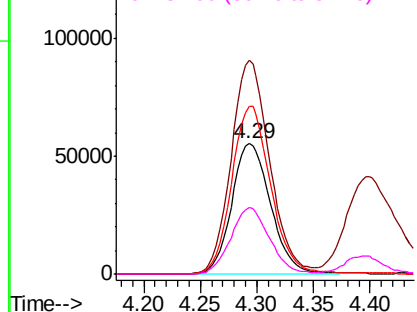
Abundance

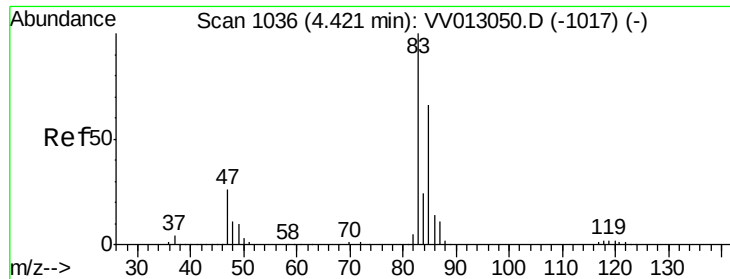
Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VV0

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VV0

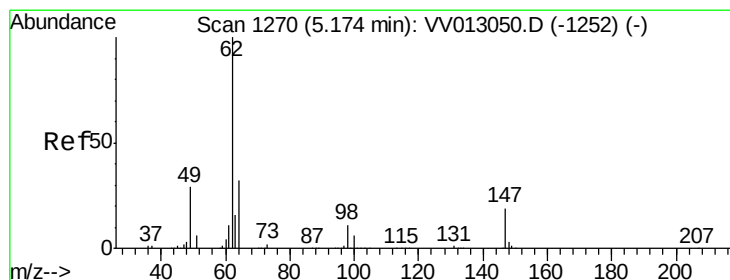
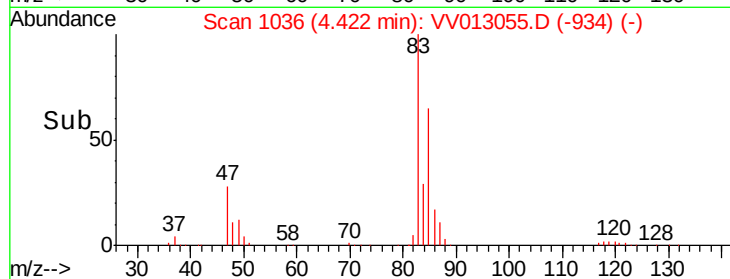
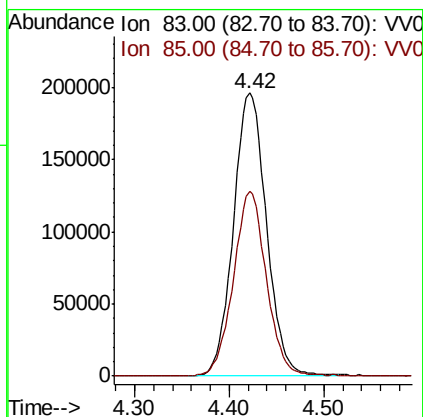
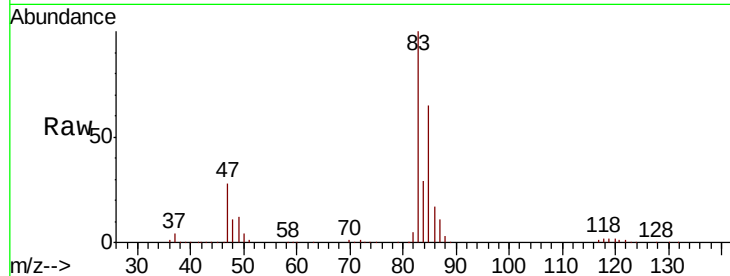




#25
Chloroform
Concen: 25.786 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV013055.D
Acq: 08 Oct 2019 09:53

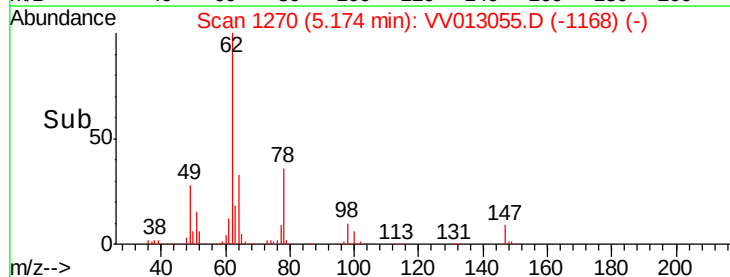
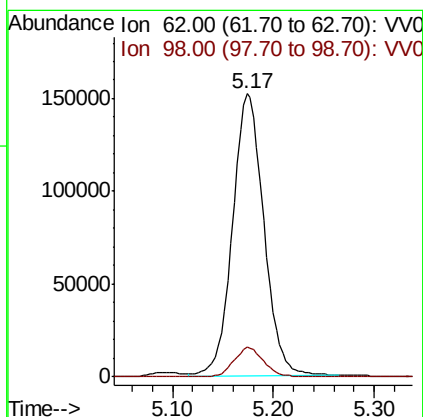
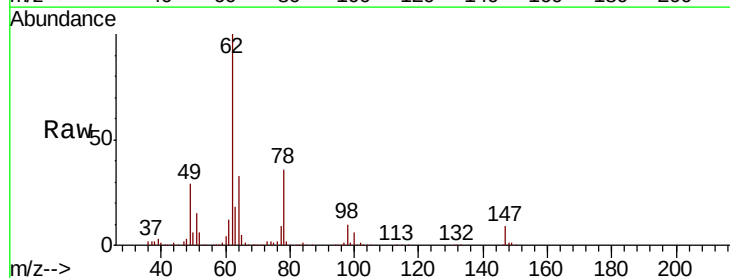
Instrument :
MSVOA_V
ClientSampleId :
VSTD02586

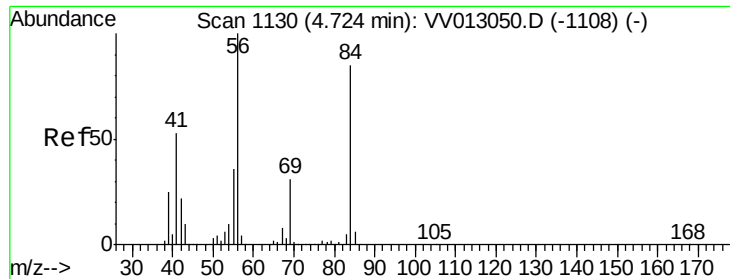
Tot Ion: 83 Resp: 477782
Ion Ratio Lower Upper
83 100
85 65.1 45.8 85.0



#27
1,2-Dichloroethane
Concen: 25.119 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV013055.D
Acq: 08 Oct 2019 09:53

Tgt Ion: 62 Resp: 328949
Ion Ratio Lower Upper
62 100
98 10.4 8.2 12.4

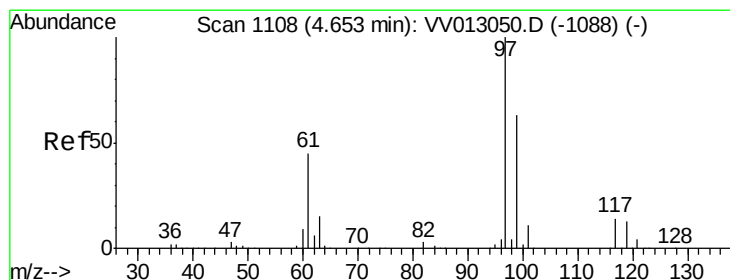
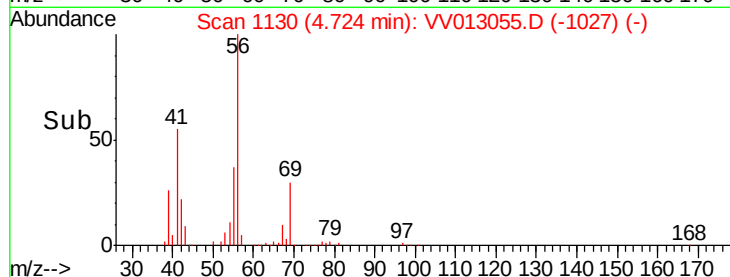
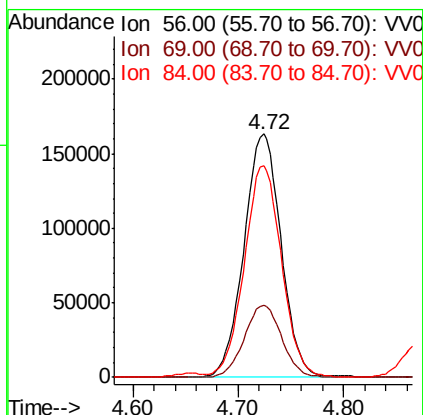
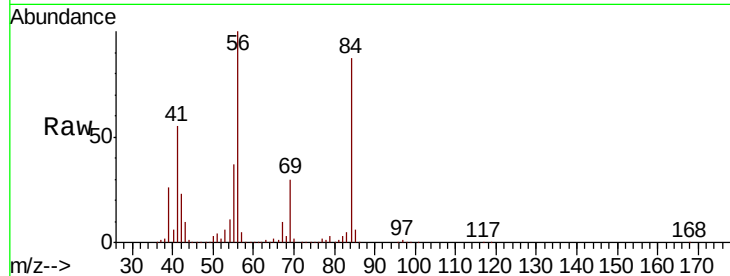




#30
Cyclohexane
Concen: 26.455 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. 0.00 min
Lab File: VV013055.D
Acq: 08 Oct 2019 09:53

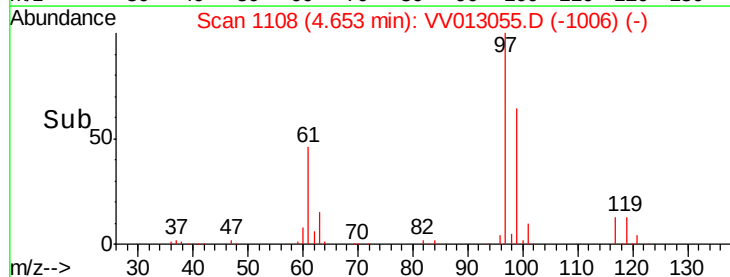
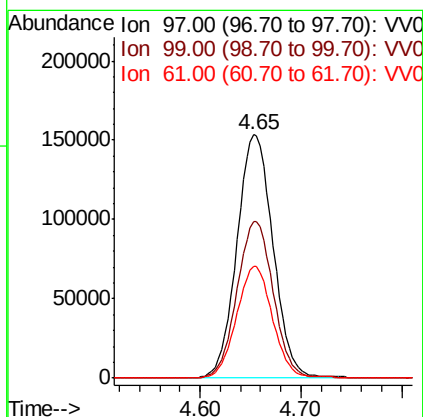
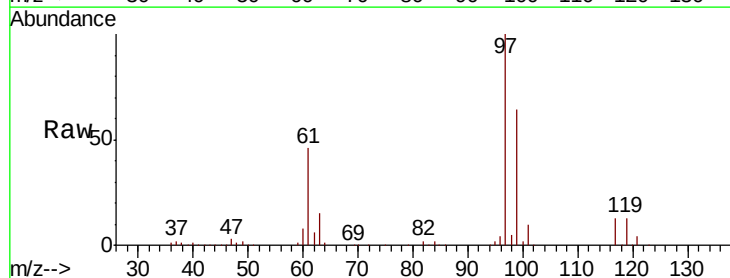
Instrument :
MSVOA_V
ClientSampleId :
VSTD02586

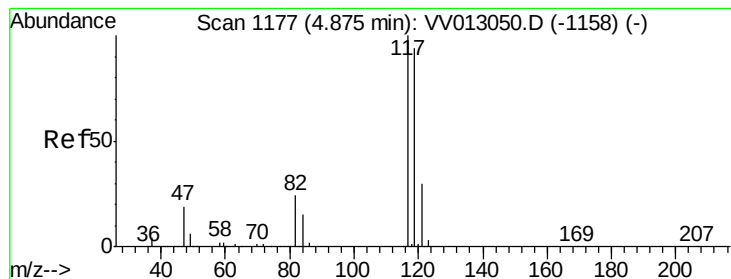
Tot Ion	Ratio	Lower	Upper
56	100		
69	30.0	23.8	35.8
84	87.1	68.4	102.6



#31
1,1,1-Trichloroethane
Concen: 27.303 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VV013055.D
Acq: 08 Oct 2019 09:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.7	77.5
61	45.8	37.8	56.8





#32

Carbon tetrachloride

Concen: 27.083 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

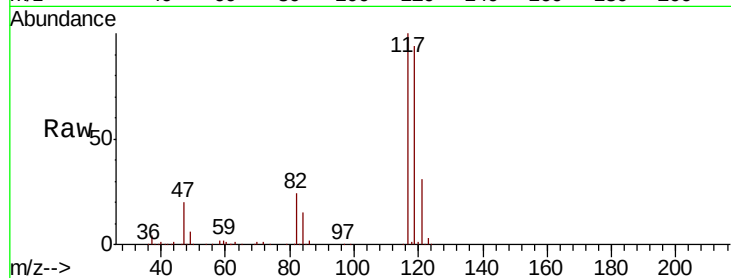
VSTD02586

Tot Ion:117 Resp: 342692

Ion Ratio Lower Upper

117 100

119 95.3 76.0 114.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

100000

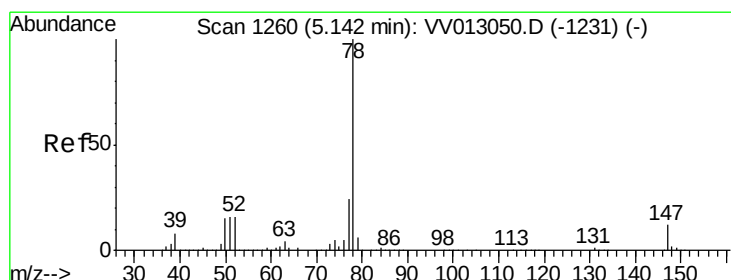
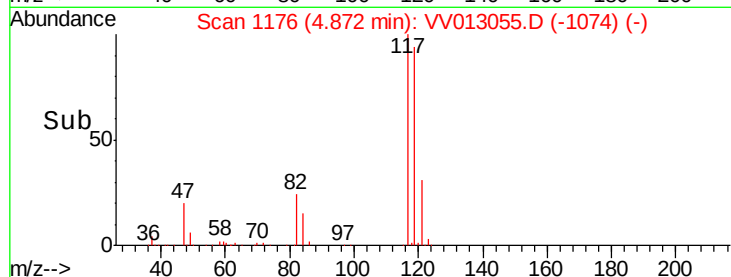
50000

0

4.87

4.80 4.90 5.00

Time-->



#34

Benzene

Concen: 27.219 ug/L

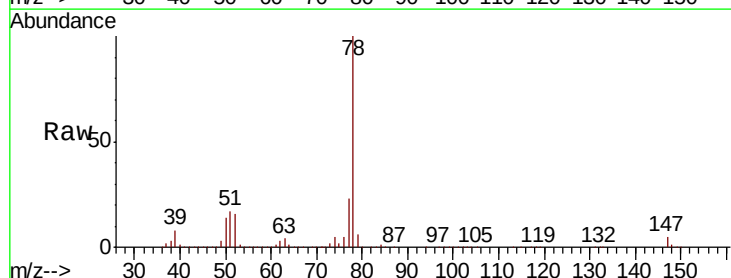
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Tgt Ion: 78 Resp: 1068321



Abundance Ion 78.00 (77.70 to 78.70): VV0

500000

400000

300000

200000

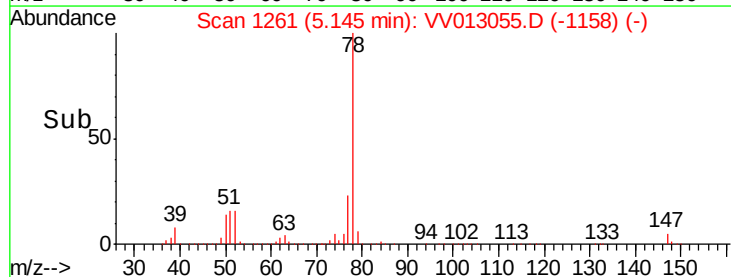
100000

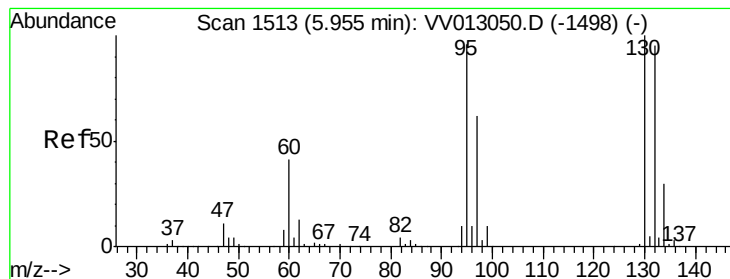
0

5.14

5.00 5.10 5.20 5.30

Time-->





#35

Trichloroethene

Concen: 25.817 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

Tot Ion: 95 Resp: 282270

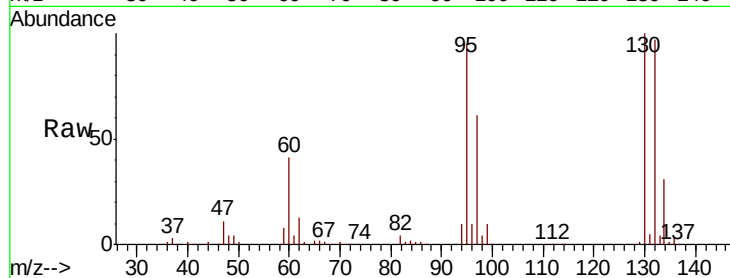
Ion Ratio Lower Upper

95 100

97 64.4 44.7 82.9

132 101.7 70.1 130.1

130 105.9 73.3 136.1

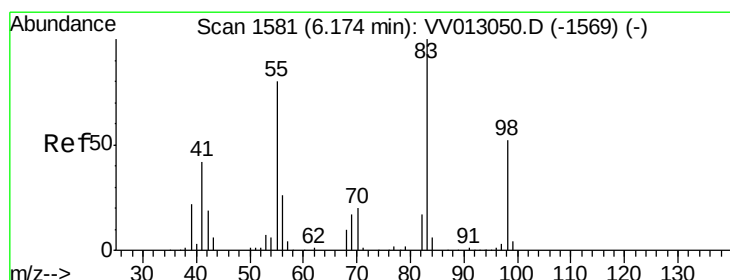
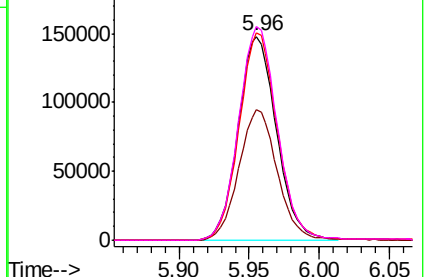
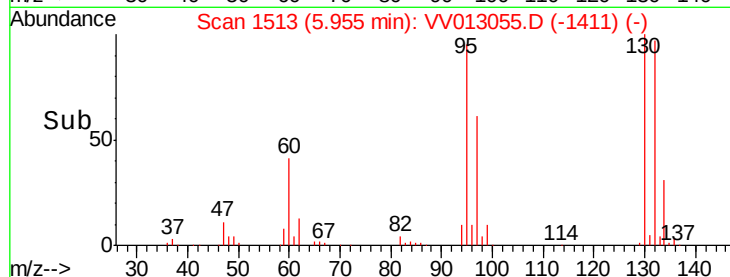


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 26.267 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

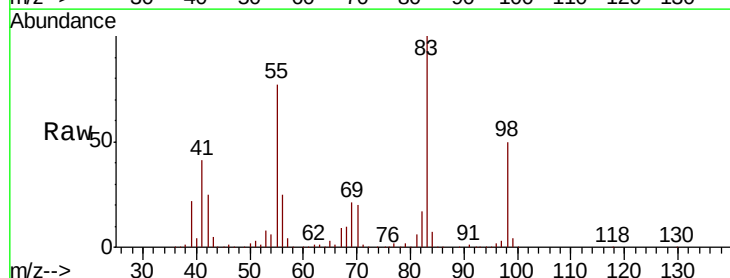
Tgt Ion: 83 Resp: 440871

Ion Ratio Lower Upper

83 100

55 76.7 61.8 92.8

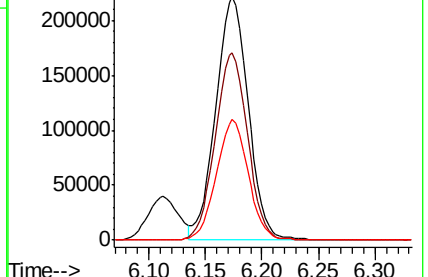
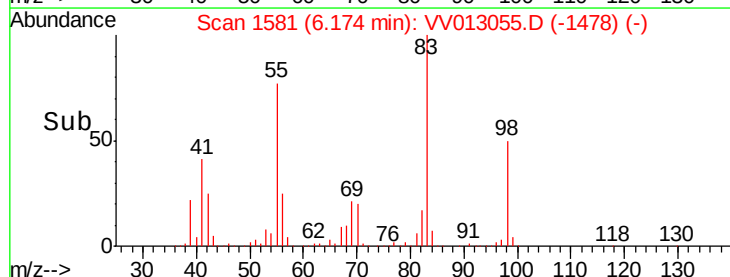
98 49.0 39.3 58.9

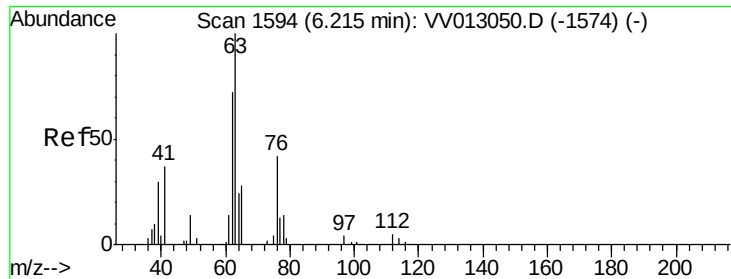


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

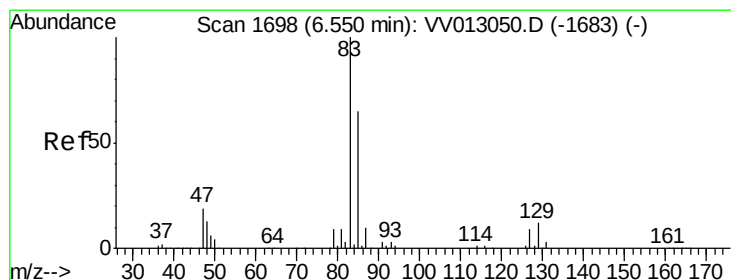
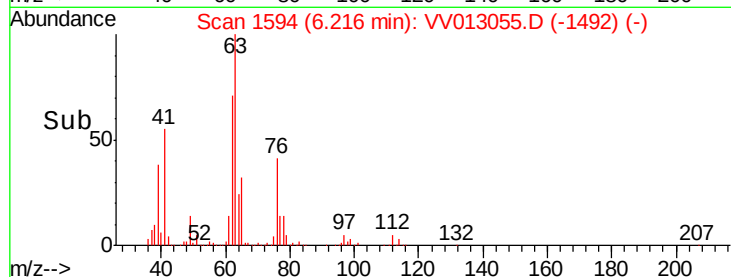
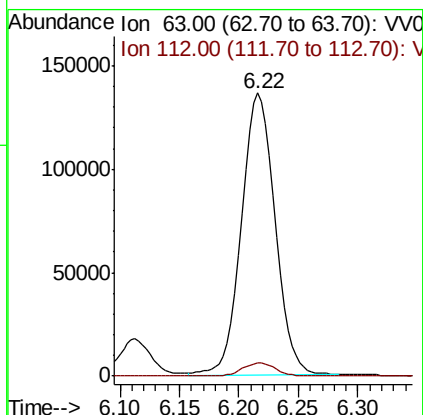
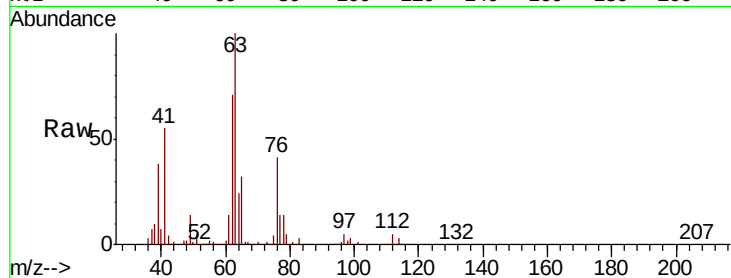




#40
 1,2-Dichloropropane
 Concen: 26.297 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

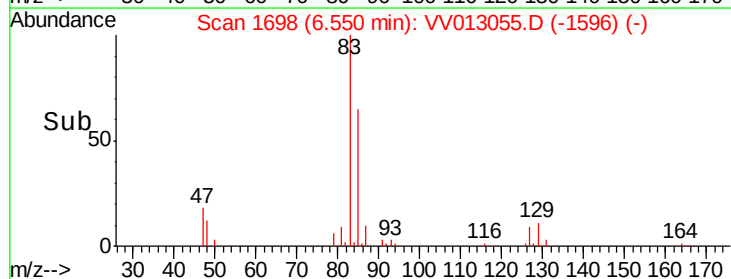
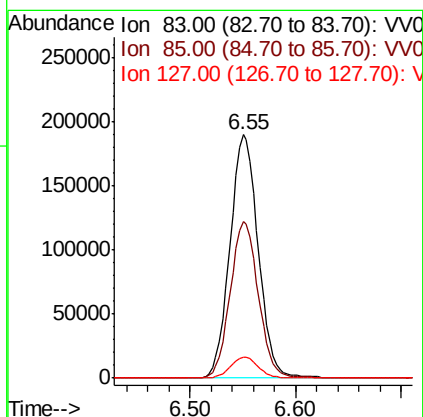
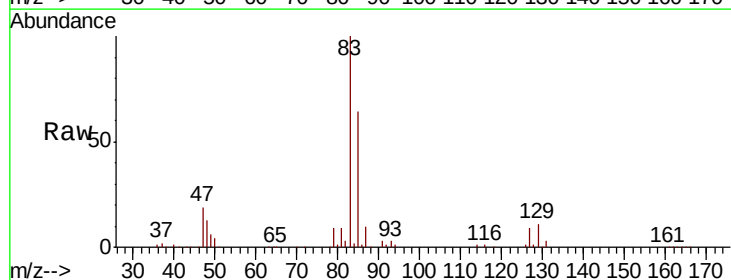
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

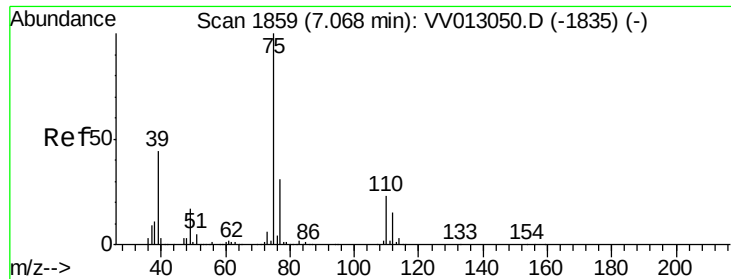
Tot Ion: 63 Resp: 268405
 Ion Ratio Lower Upper
 63 100
 112 4.8 3.8 5.6



#41
 Bromodichloromethane
 Concen: 26.876 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

Tgt Ion: 83 Resp: 351358
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.3 84.1
 127 8.6 7.2 10.8

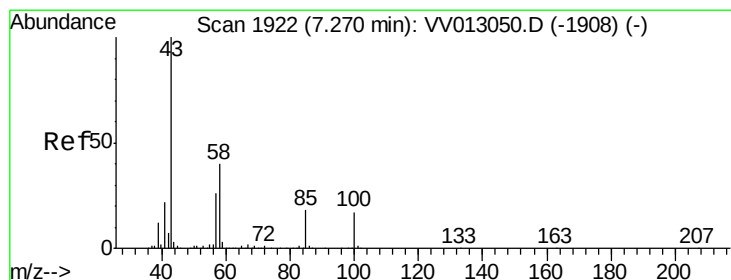
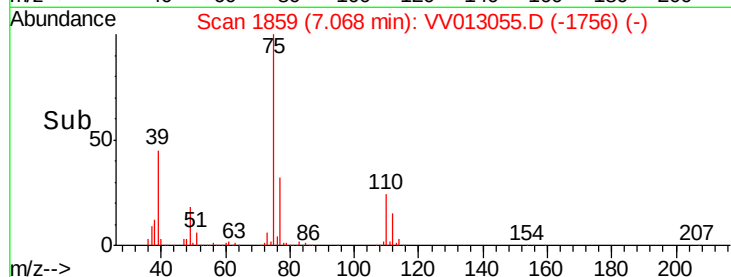
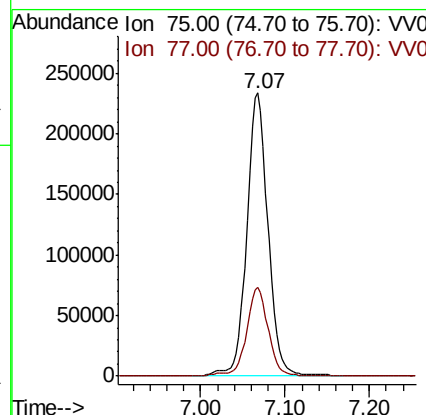
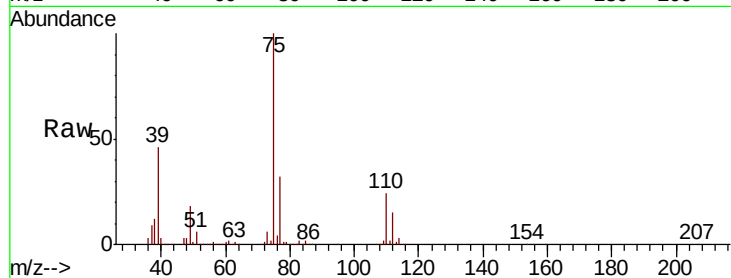




#42
 cis-1,3-Dichloropropene
 Concen: 27.510 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

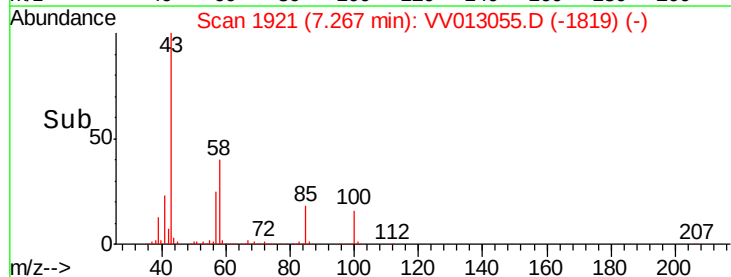
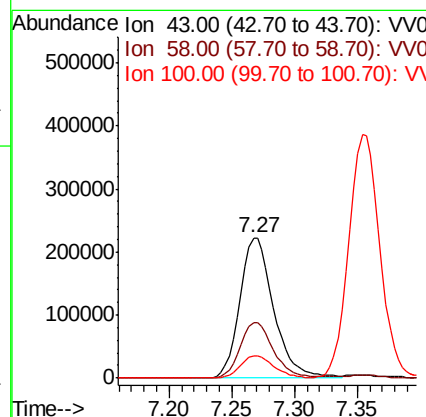
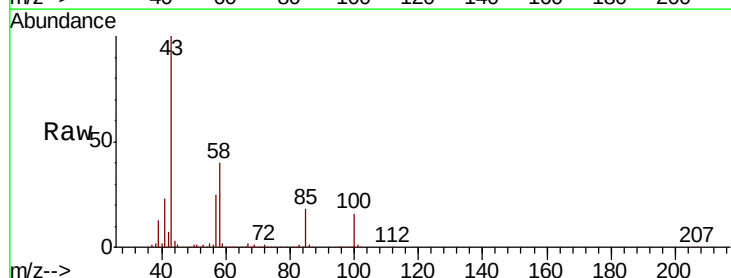
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

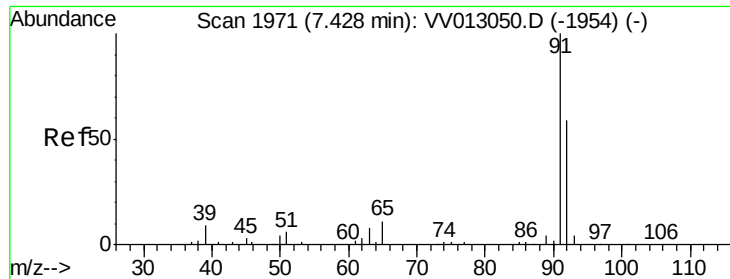
Tot Ion: 75 Resp: 412577
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.5 39.9



#43
 4-Methyl-2-pentanone
 Concen: 49.699 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

Tgt Ion: 43 Resp: 416755
 Ion Ratio Lower Upper
 43 100
 58 39.8 31.2 46.8
 100 16.0 12.2 18.2





#44

Toluene

Concen: 28.065 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

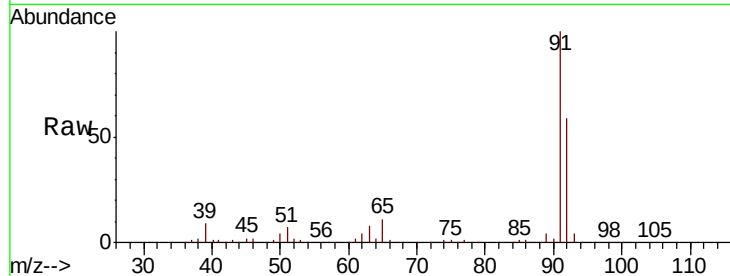
Instrument :
MSVOA_V
ClientSampleId :
VSTD02586

Tot Ion: 91 Resp: 1161738

Ion Ratio Lower Upper

91 100

92 58.8 41.3 76.7



Abundance Ion 91.00 (90.70 to 91.70): VV013055.D (-1954) (-)

Ion 92.00 (91.70 to 92.70): VV013055.D (-1954) (-)

7.43

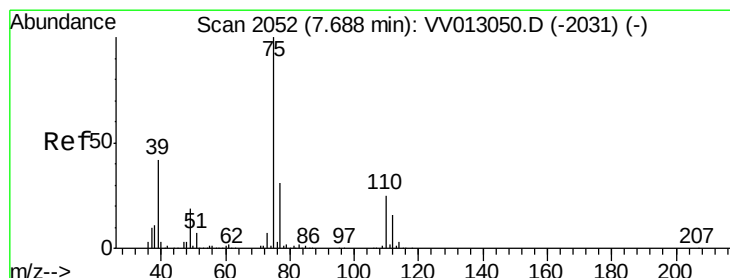
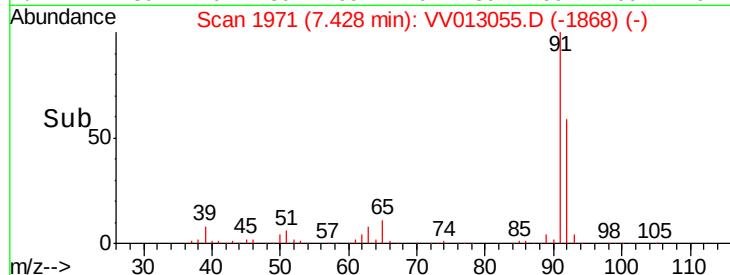
600000

400000

200000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 27.097 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV013055.D

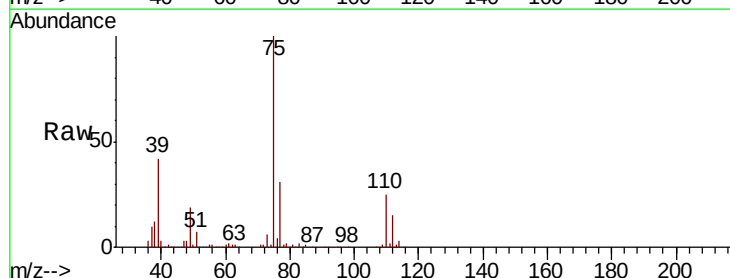
Acq: 08 Oct 2019 09:53

Tgt Ion: 75 Resp: 342025

Ion Ratio Lower Upper

75 100

77 31.3 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV013055.D (-1950) (-)

Ion 77.00 (76.70 to 77.70): VV013055.D (-1950) (-)

7.69

200000

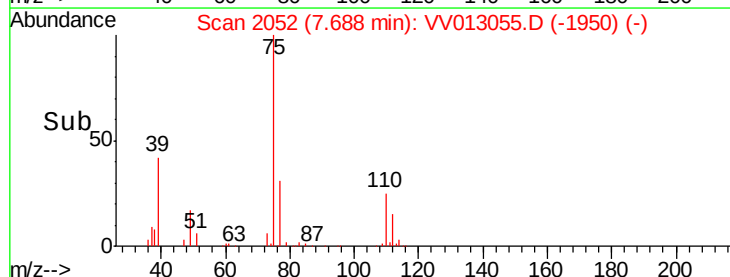
150000

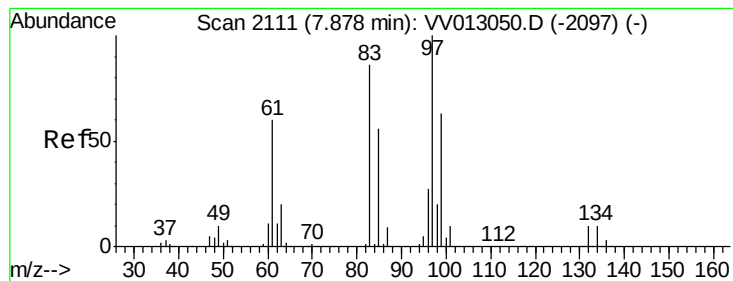
100000

50000

0

Time-->





#46

1,1,2-Trichloroethane

Concen: 25.488 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. -0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

Tot Ion: 97 Resp: 220853

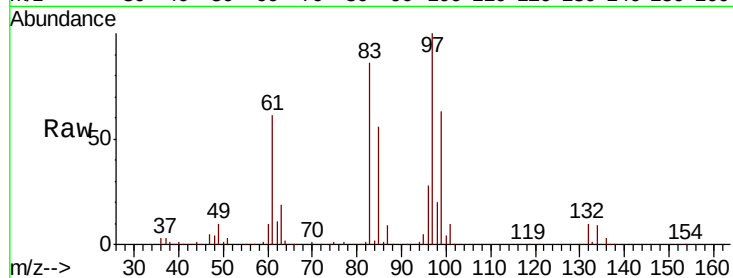
Ion Ratio Lower Upper

97 100

83 85.5 58.9 109.5

85 55.9 38.4 71.2

99 62.9 43.8 81.4



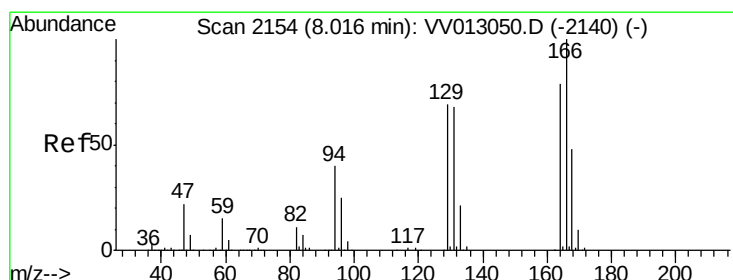
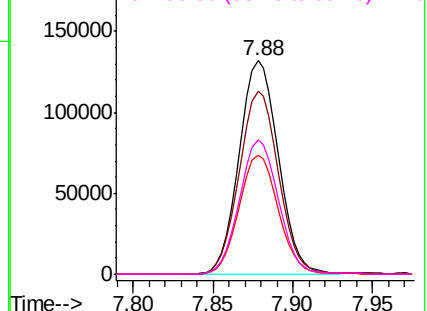
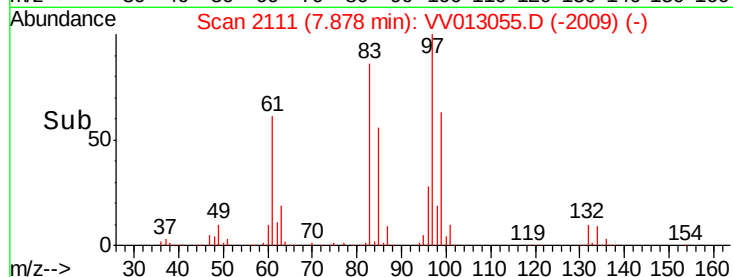
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 26.801 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Tgt Ion: 164 Resp: 238159

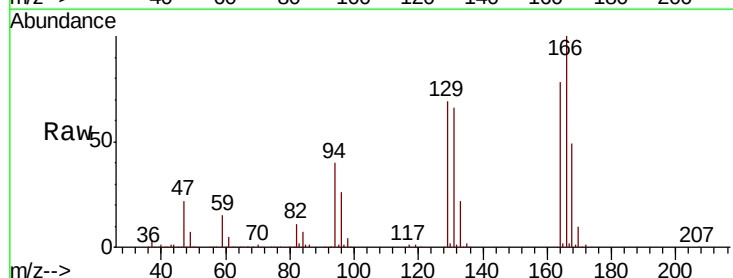
Ion Ratio Lower Upper

164 100

129 87.9 62.8 116.6

131 84.6 60.2 111.8

166 127.6 89.4 166.0



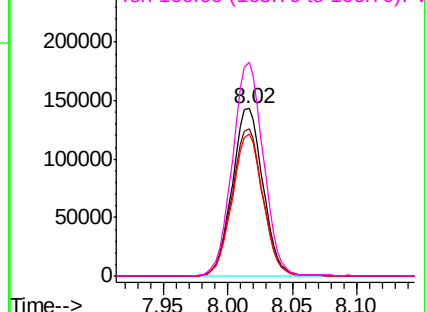
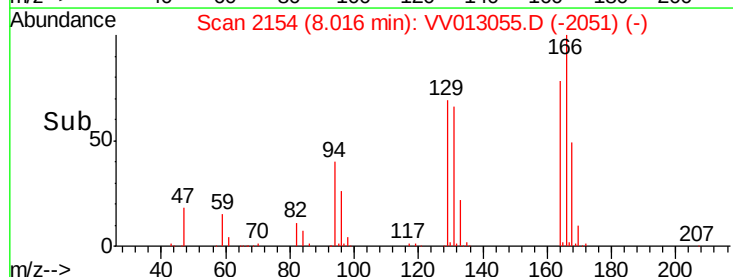
Abundance

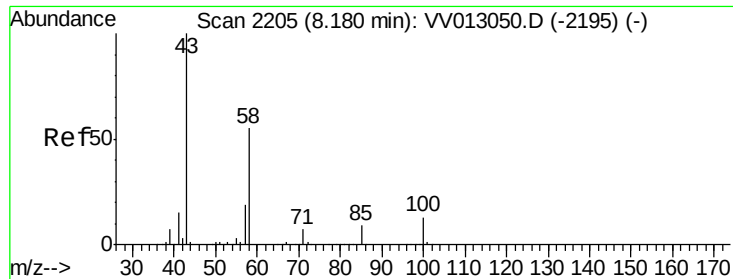
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V





#49

2-Hexanone

Concen: 48.867 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. -0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

Tot Ion: 43 Resp: 308888

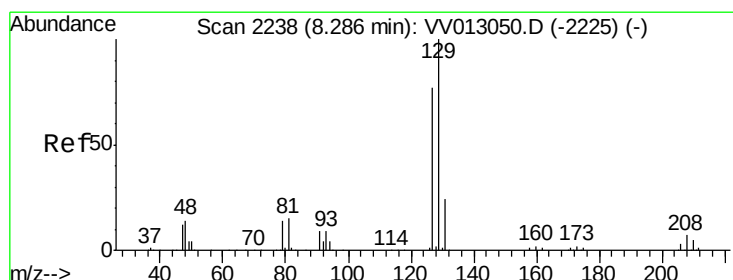
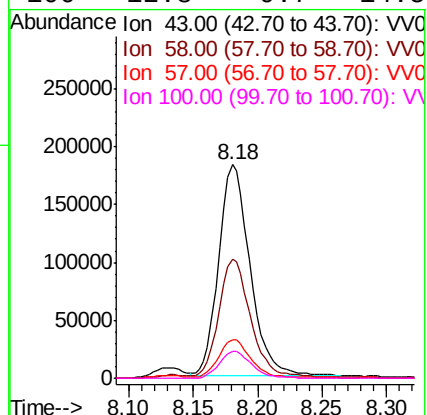
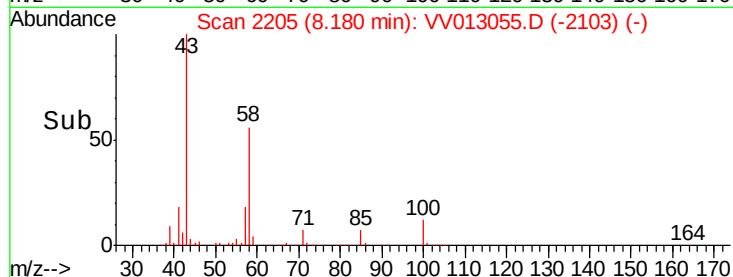
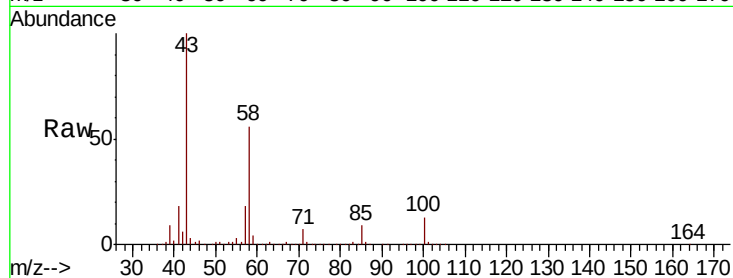
Ion Ratio Lower Upper

43 100

58 56.3 46.5 69.7

57 18.1 15.5 23.3

100 12.8 9.7 14.5



#50

Dibromochloromethane

Concen: 26.426 ug/L

RT: 8.29 min Scan# 2238

Delta R.T. 0.00 min

Lab File: VV013055.D

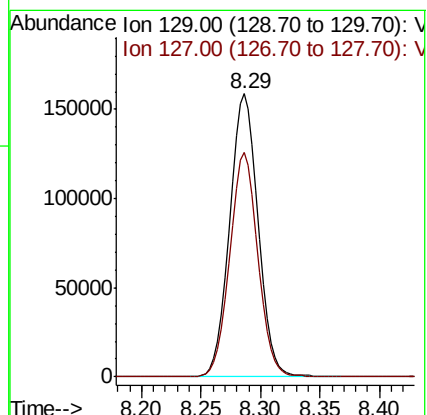
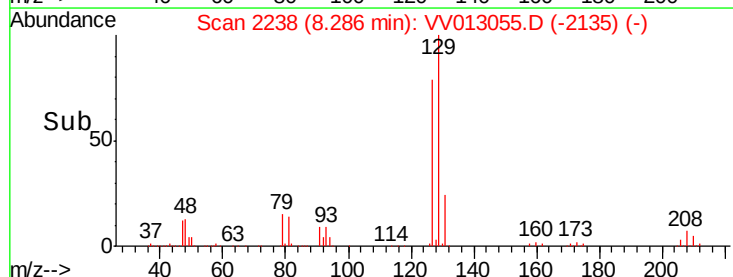
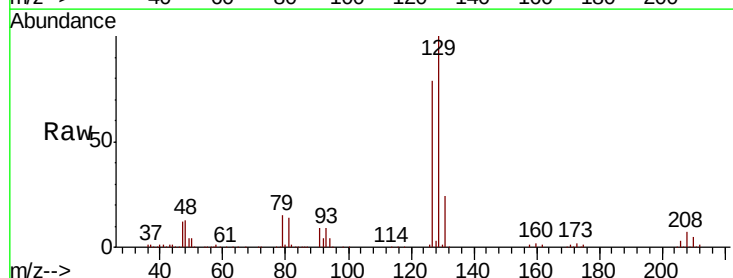
Acq: 08 Oct 2019 09:53

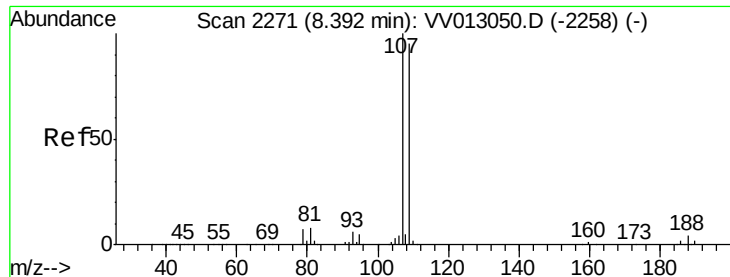
Tgt Ion: 129 Resp: 263182

Ion Ratio Lower Upper

129 100

127 79.4 53.7 99.7





#51

1,2-Dibromoethane

Concen: 26.129 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

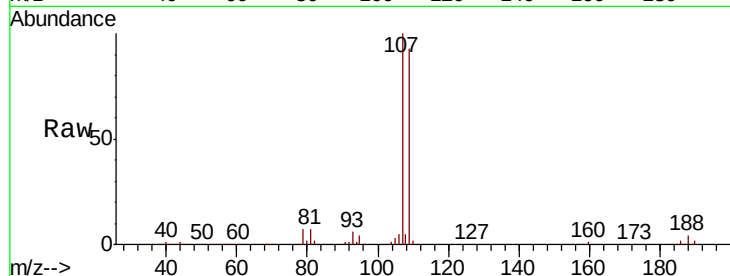
Tot Ion:107 Resp: 221871

Ion Ratio Lower Upper

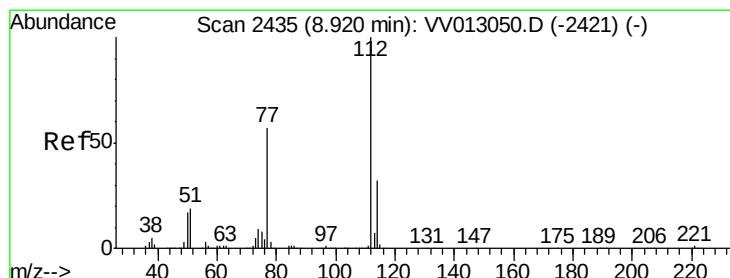
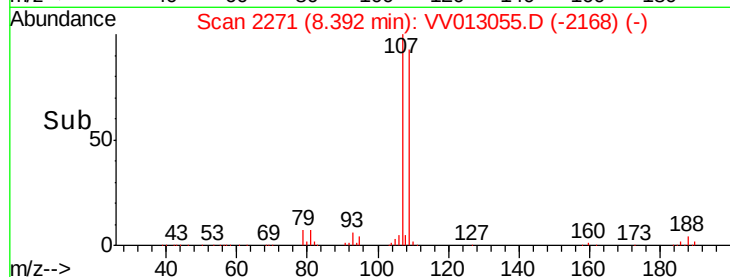
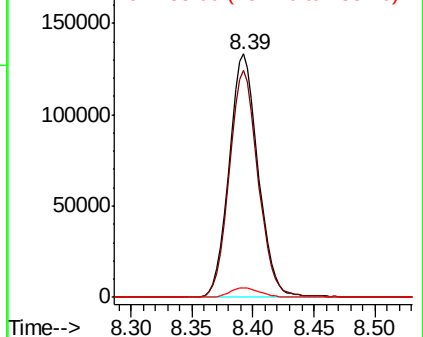
107 100

109 93.1 66.1 122.8

188 4.0 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 26.562 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

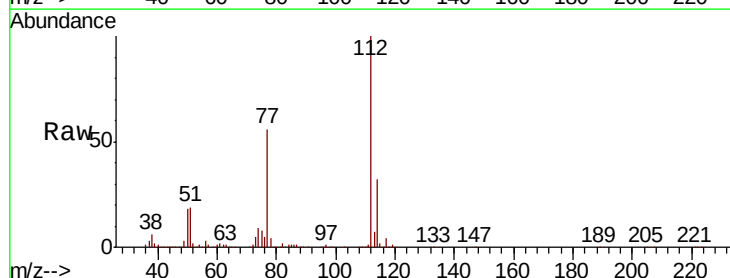
Tgt Ion:112 Resp: 758774

Ion Ratio Lower Upper

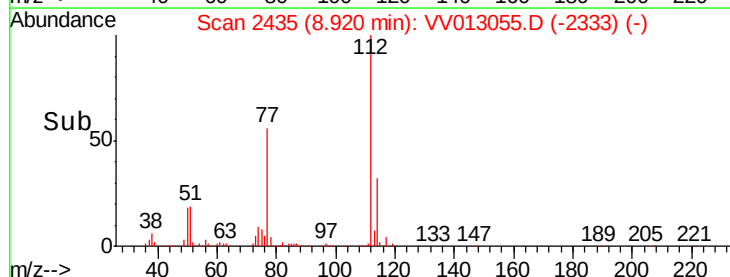
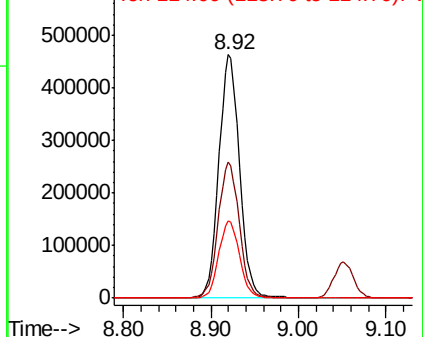
112 100

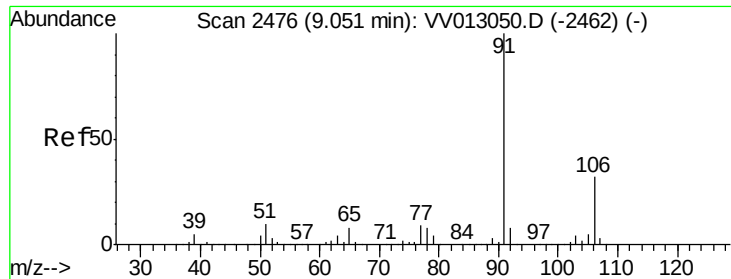
77 55.9 46.3 69.5

114 31.9 22.5 41.7



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 27.771 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

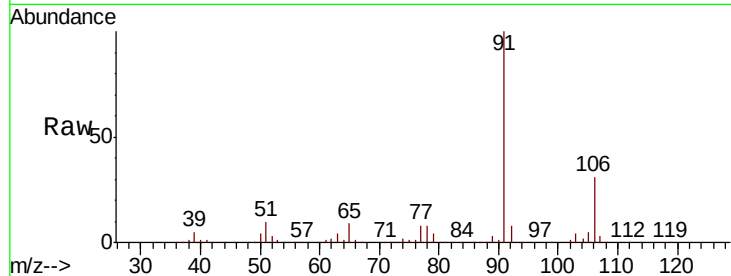
VSTD02586

Tot Ion: 91 Resp: 1265724

Ion Ratio Lower Upper

91 100

106 31.4 21.8 40.4



Abundance Ion 91.00 (90.70 to 91.70): VV013055.D (-2462) (-)

Ion 106.00 (105.70 to 106.70): VV013055.D (-2462) (-)

800000

600000

400000

200000

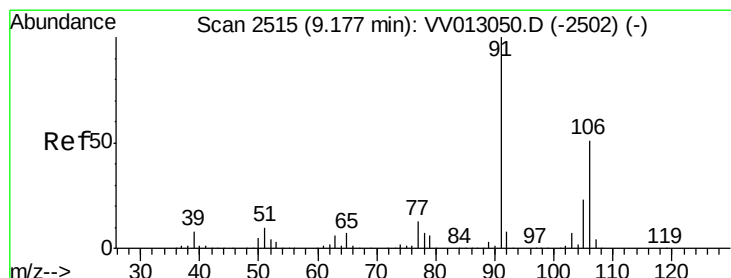
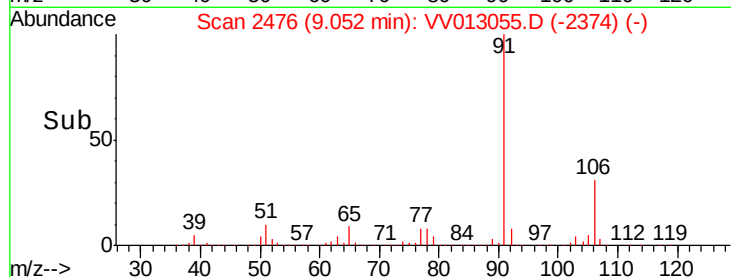
0

9.05

9.10

9.15

Time-->



#54

m,p-Xylene

Concen: 28.412 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV013055.D

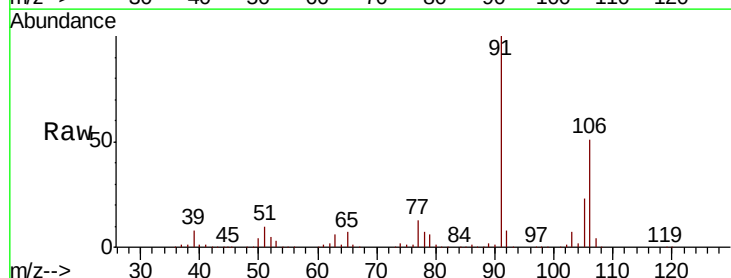
Acq: 08 Oct 2019 09:53

Tgt Ion: 106 Resp: 492295

Ion Ratio Lower Upper

106 100

91 196.8 140.1 260.3



Abundance Ion 106.00 (105.70 to 106.70): VV013055.D (-2502) (-)

Ion 91.00 (90.70 to 91.70): VV013055.D (-2502) (-)

800000

600000

400000

200000

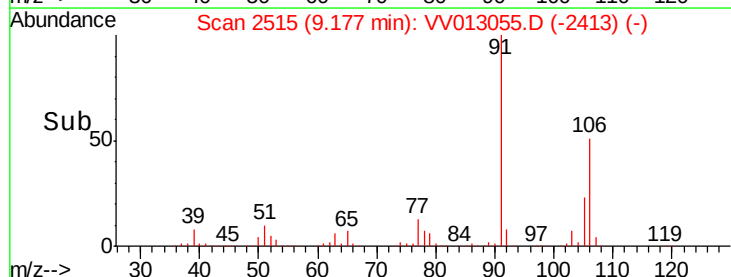
0

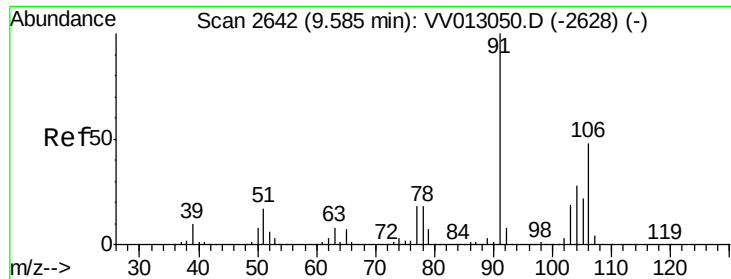
9.18

9.20

9.30

Time-->





#55

o-xylene

Concen: 28.481 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

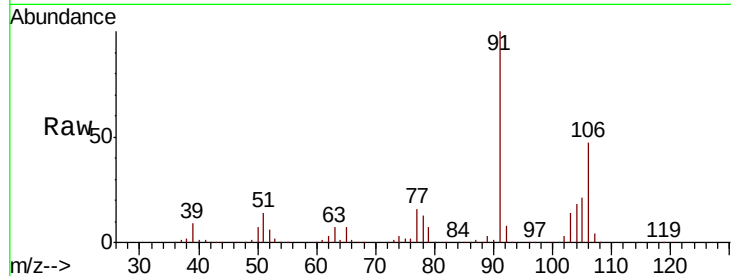
VSTD02586

Tot Ion:106 Resp: 470210

Ion Ratio Lower Upper

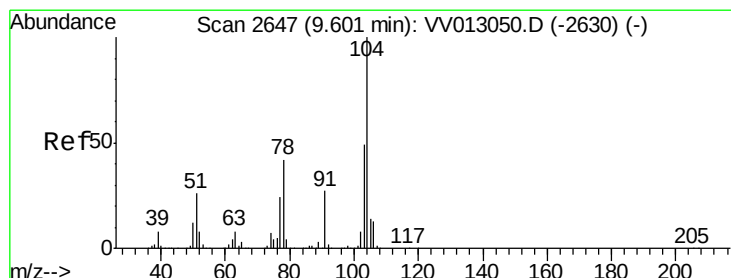
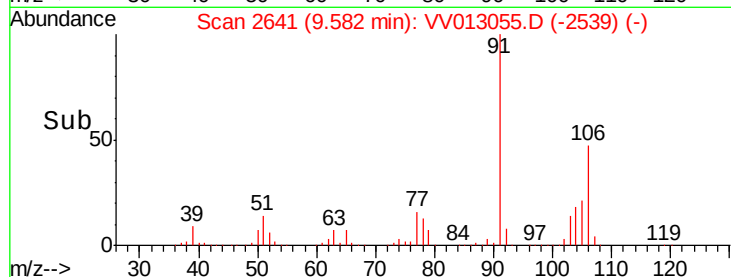
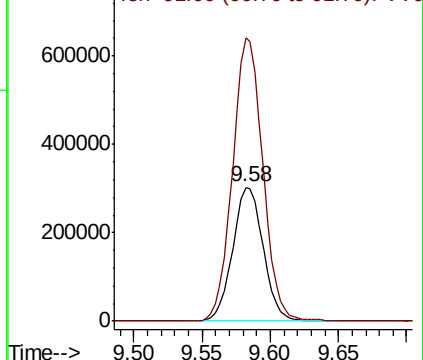
106 100

91 211.5 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 28.731 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV013055.D

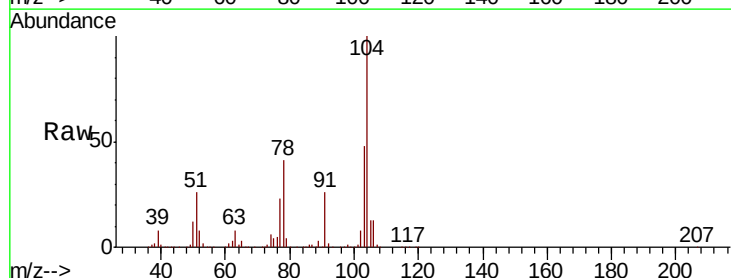
Acq: 08 Oct 2019 09:53

Tgt Ion:104 Resp: 834592

Ion Ratio Lower Upper

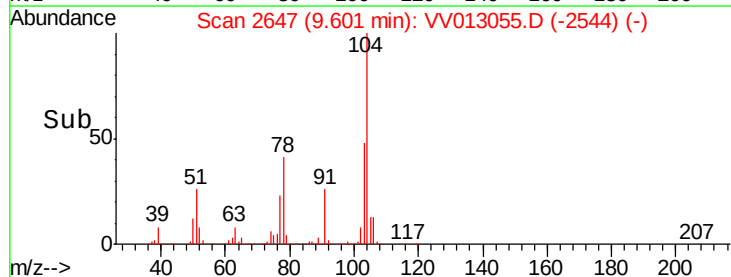
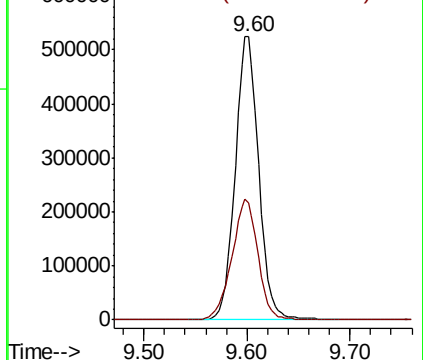
104 100

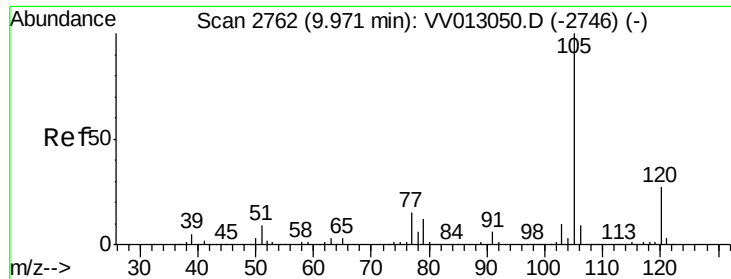
78 41.5 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 28.862 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampled :

VSTD02586

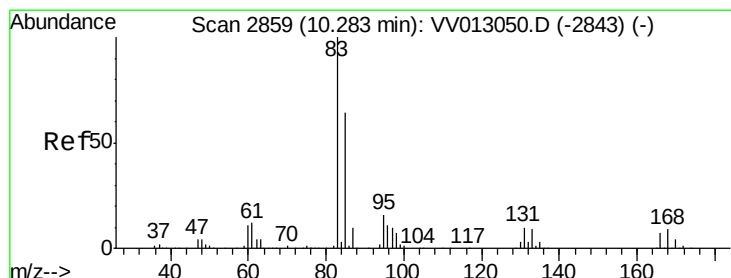
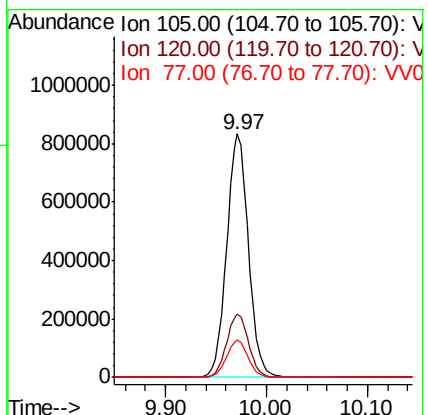
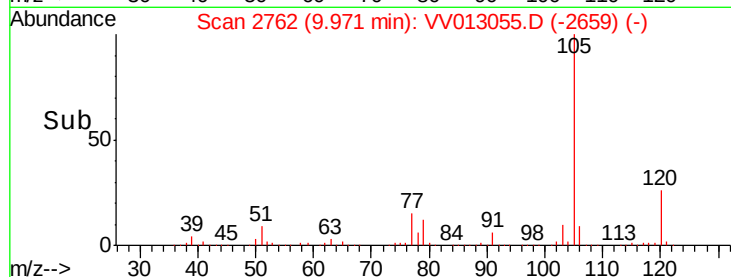
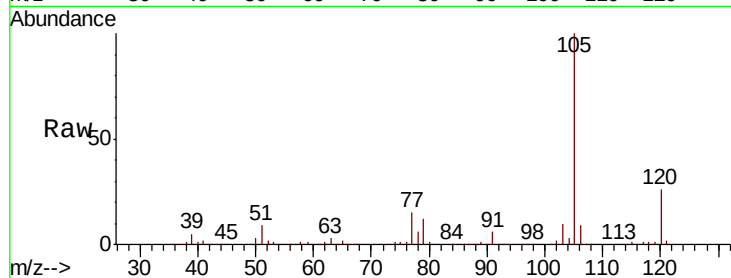
Tot Ion:105 Resp: 1252268

Ion Ratio Lower Upper

105 100

120 26.4 21.4 32.0

77 15.1 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 25.694 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

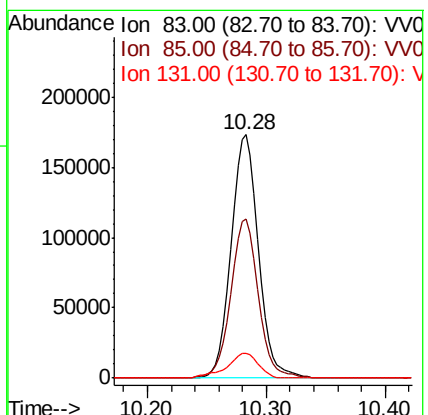
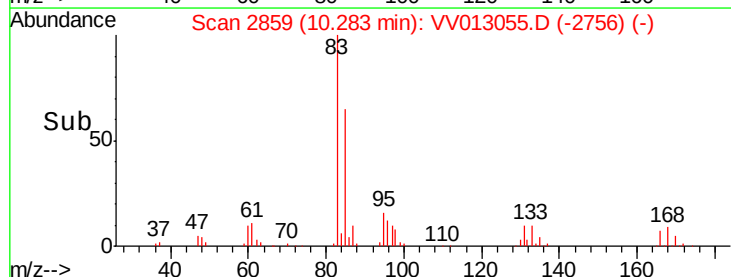
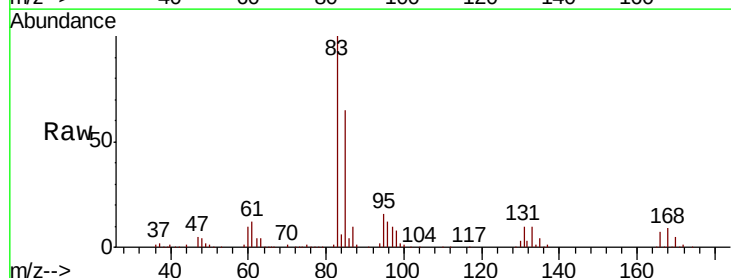
Tgt Ion: 83 Resp: 275397

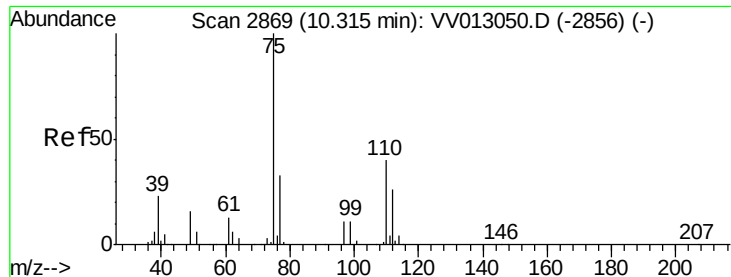
Ion Ratio Lower Upper

83 100

85 65.4 45.4 84.2

131 10.4 8.2 12.2





#59

1,2,3-Trichloropropane

Concen: 24.829 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

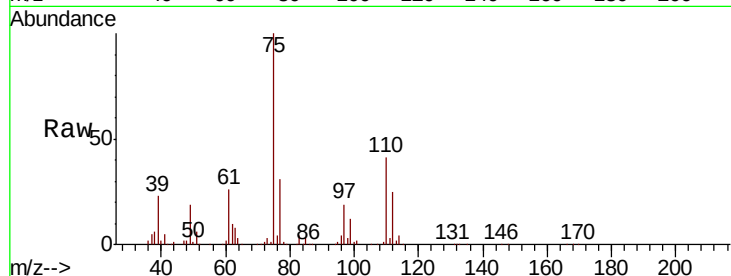
VSTD02586

Tot Ion: 75 Resp: 219658

Ion Ratio Lower Upper

75 100

77 31.3 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV013050.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV013050.D (-2856) (-)

10.32

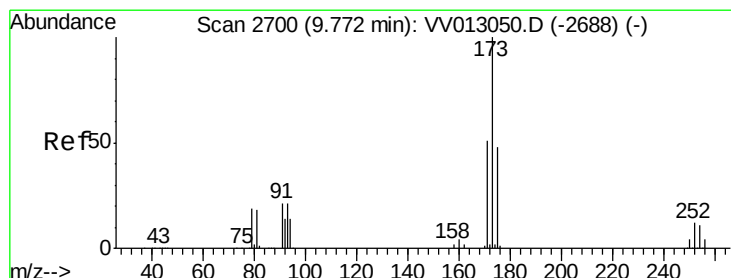
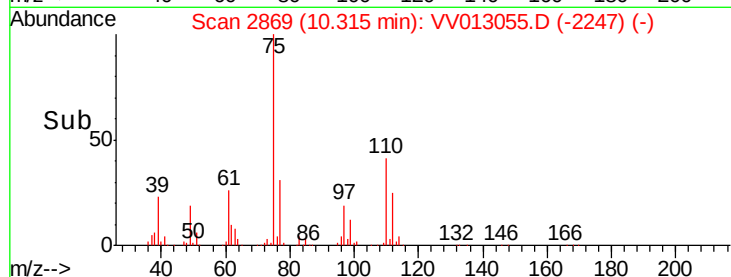
150000

100000

50000

0

Time-->



#62

Bromoform

Concen: 25.960 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

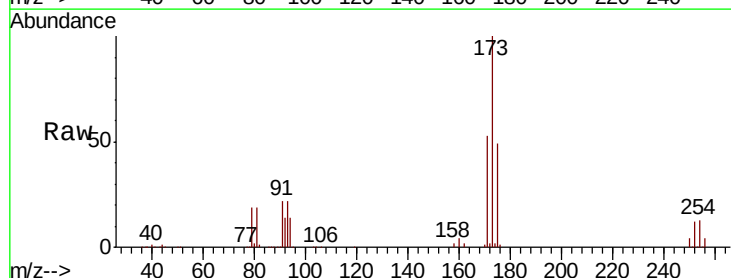
Tgt Ion: 173 Resp: 169718

Ion Ratio Lower Upper

173 100

175 48.3 39.5 59.3

254 12.0 9.1 13.7



Abundance Ion 173.00 (172.70 to 173.70): VV013050.D (-2688) (-)

Ion 175.00 (174.70 to 175.70): VV013050.D (-2688) (-)

Ion 254.00 (253.70 to 254.70): VV013050.D (-2688) (-)

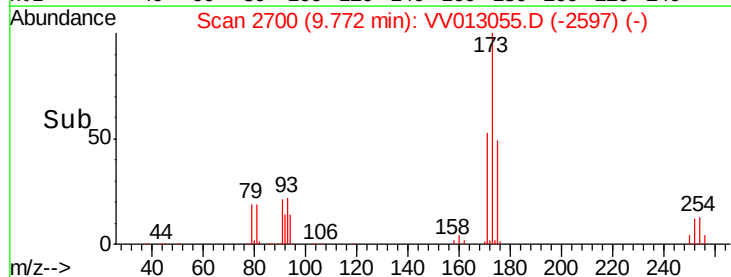
9.77

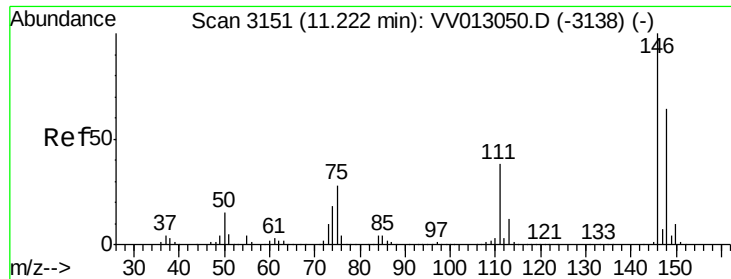
100000

50000

0

Time-->

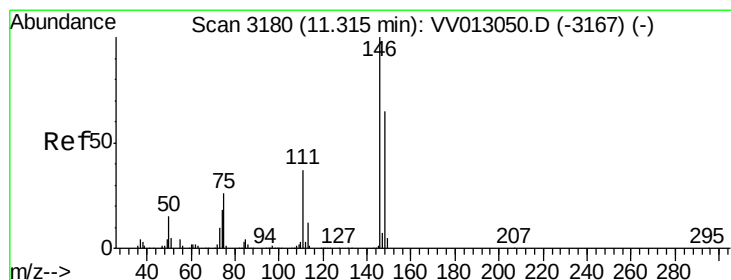
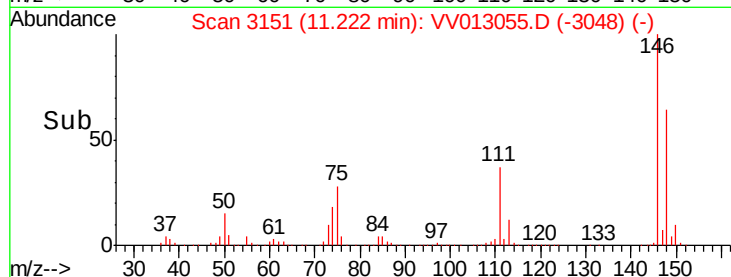
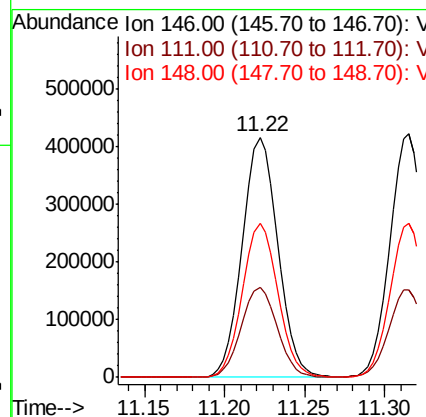
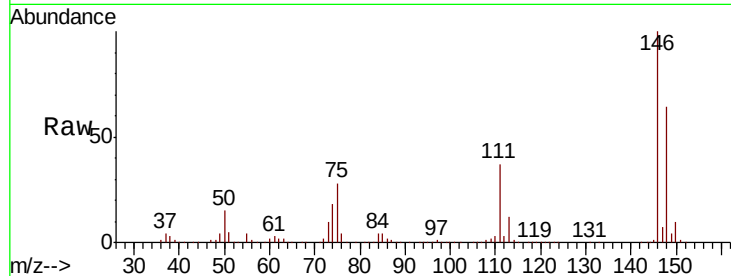




#63
 1,3-Dichlorobenzene
 Concen: 26.561 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

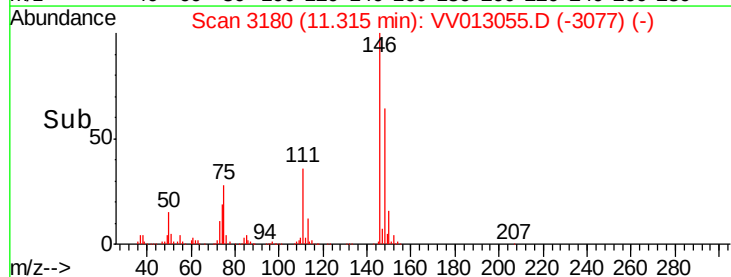
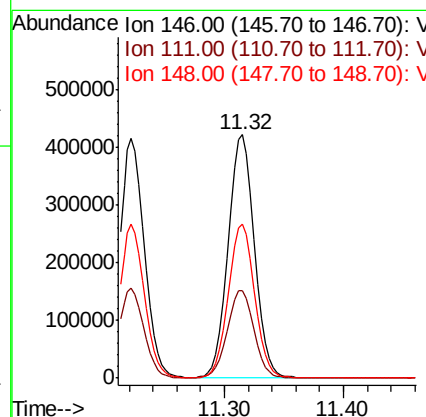
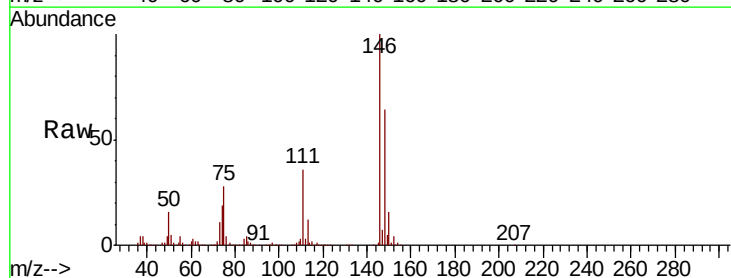
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

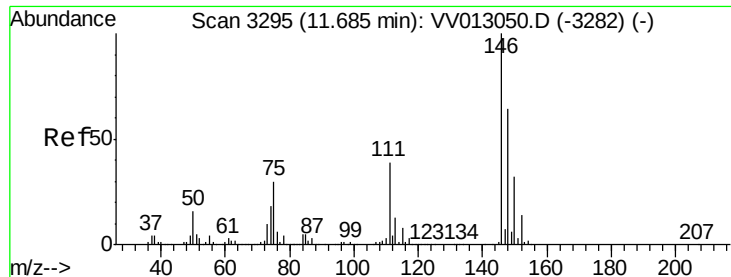
Tot Ion:146 Resp: 629886
 Ion Ratio Lower Upper
 146 100
 111 37.4 26.7 49.7
 148 64.0 43.9 81.5



#64
 1,4-Dichlorobenzene
 Concen: 25.943 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

Tgt Ion:146 Resp: 645703
 Ion Ratio Lower Upper
 146 100
 111 36.1 25.5 47.3
 148 63.5 45.1 83.9

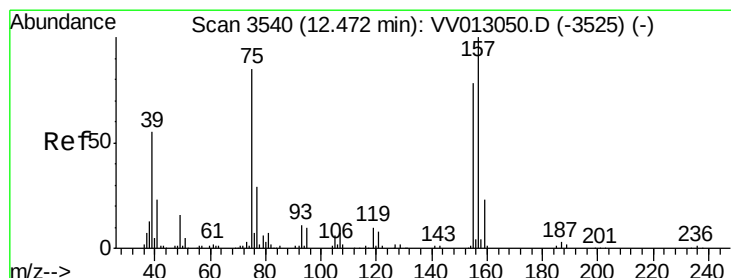
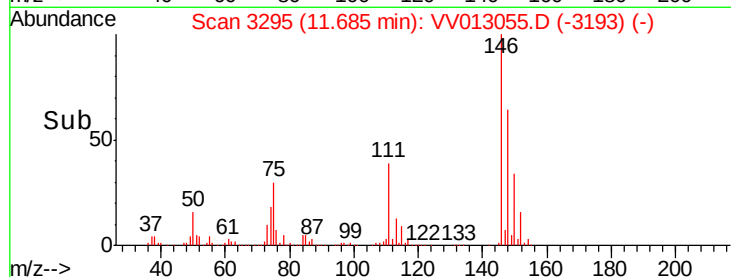
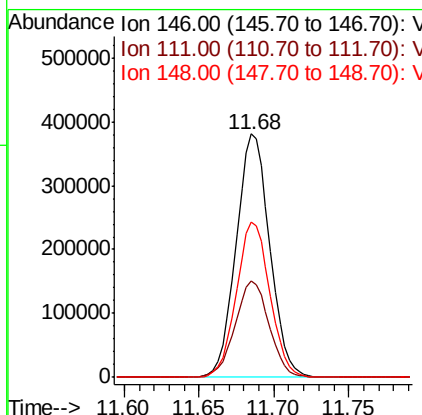
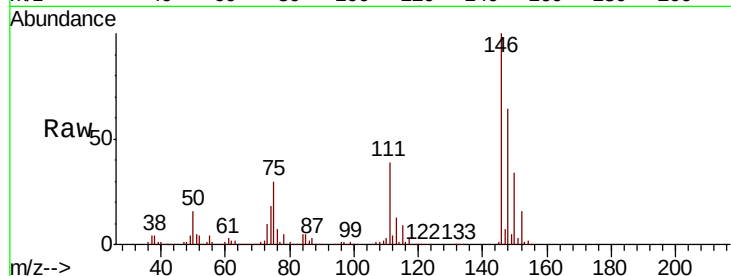




#65
 1,2-Dichlorobenzene
 Concen: 26.303 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

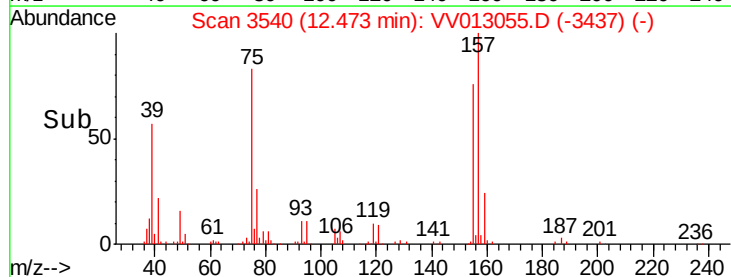
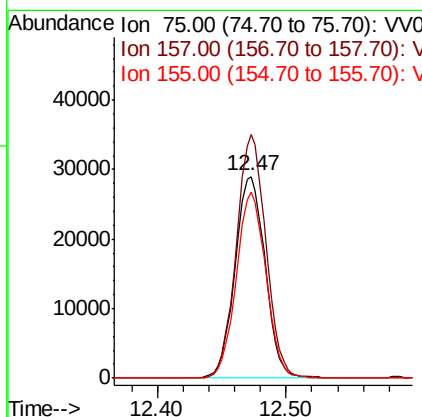
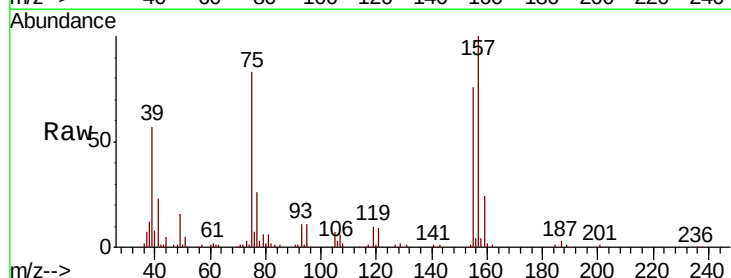
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

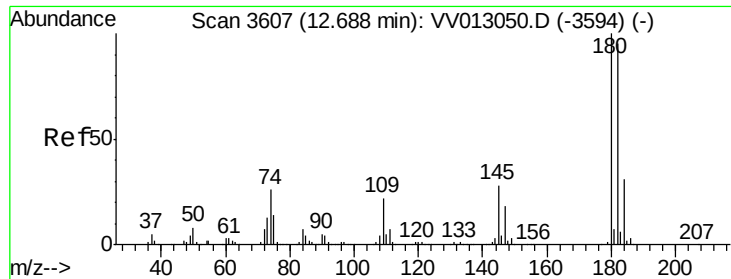
Tot Ion:146 Resp: 594974
 Ion Ratio Lower Upper
 146 100
 111 39.4 31.9 47.9
 148 63.6 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 23.462 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

Tgt Ion: 75 Resp: 47051
 Ion Ratio Lower Upper
 75 100
 157 120.8 91.7 137.5
 155 92.3 70.8 106.2

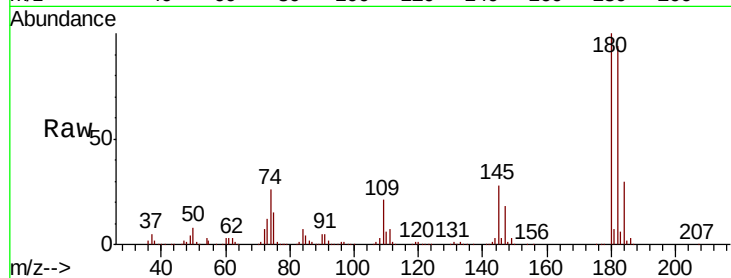




#67
 1,3,5-Trichlorobenzene
 Concen: 26.798 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02586

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.4	114.6
184	30.1	24.6	37.0
145	27.9	22.2	33.4



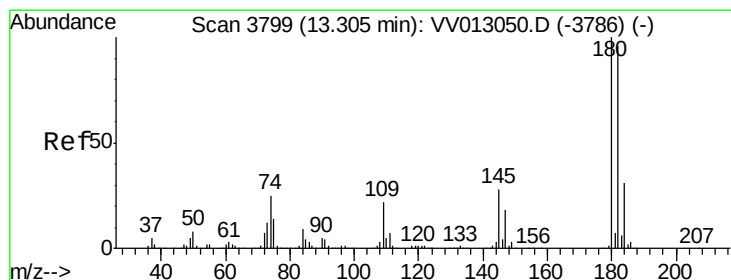
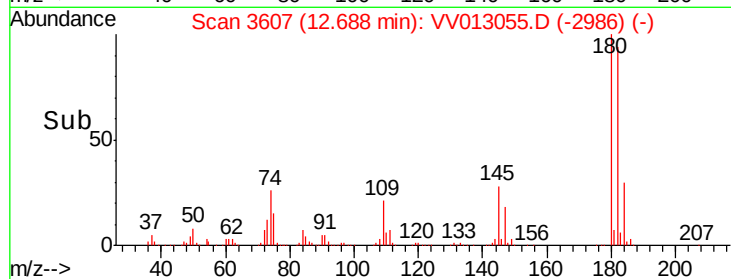
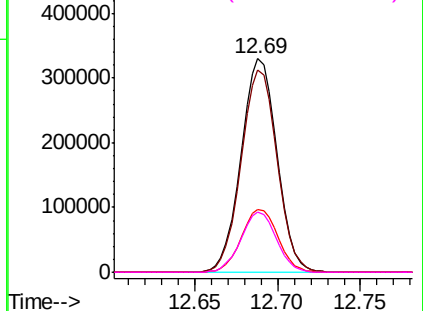
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

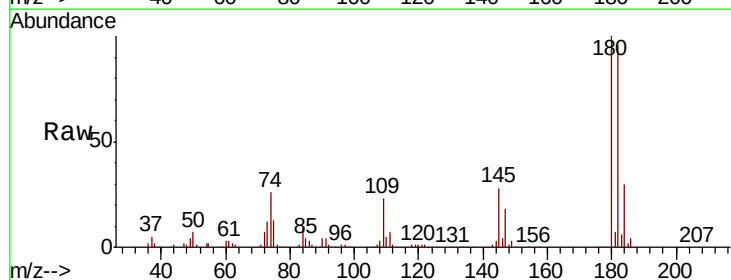
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 26.091 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013055.D
 Acq: 08 Oct 2019 09:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.8	115.2
145	27.7	22.6	34.0

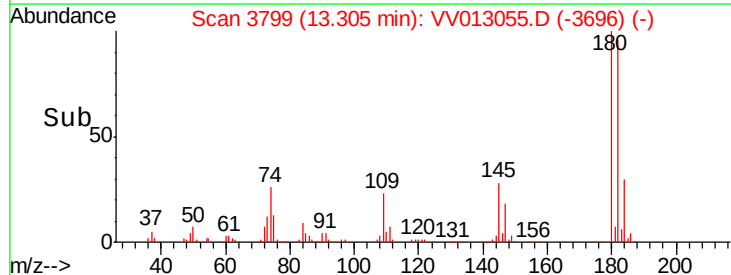
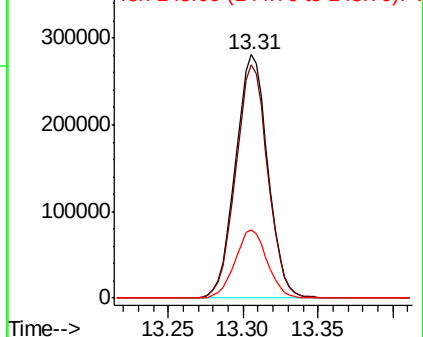


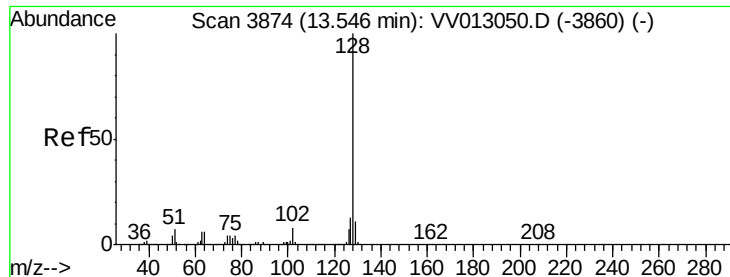
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 25.507 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD02586

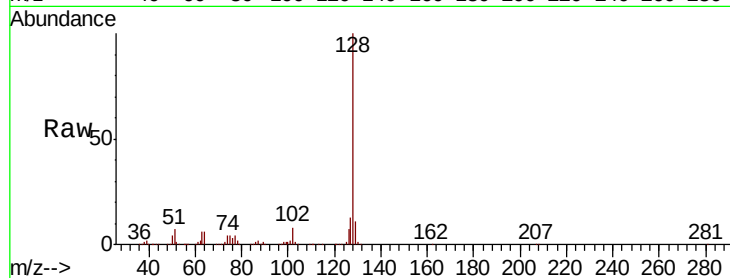
Tot Ion:128 Resp: 832189

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

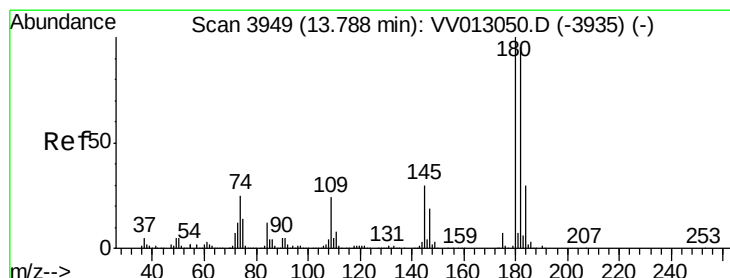
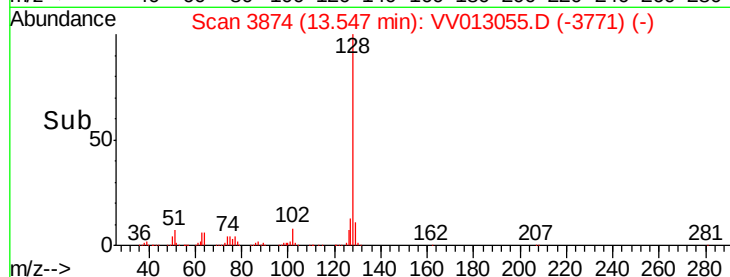
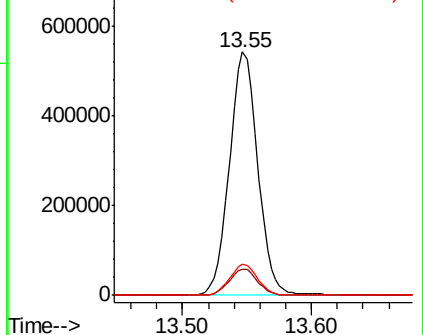
127 12.7 10.2 15.2



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: 25.916 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013055.D

Acq: 08 Oct 2019 09:53

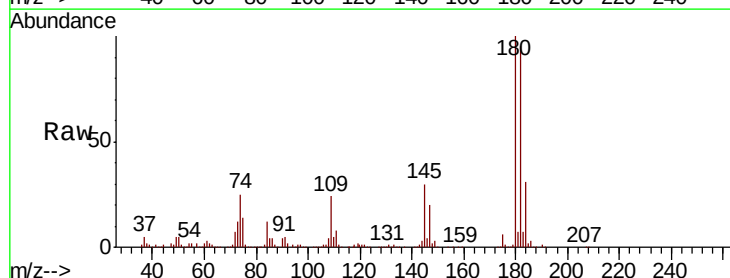
Tgt Ion:180 Resp: 404185

Ion Ratio Lower Upper

180 100

182 94.9 77.4 116.2

145 29.9 23.9 35.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

