

Data File : VV013104.D
Acq On : 10 Oct 2019 21:13
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02591

Quant Time: Oct 11 07:36:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M
Quant Title : VOC Analysis
QLast Update : Fri Oct 11 07:31:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	611788	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	622251	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	351797	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	205577	21.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.64%
7) Chloroethane-d5	1.58	69	183966	23.97	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	95.88%
10) 1,1-Dichloroethene-d2	2.13	63	390836	24.76	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	99.04%
20) 2-Butanone-d5	3.95	46	179275	54.70	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	109.40%
24) Chloroform-d	4.40	84	463314	27.57	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	110.28%
26) 1,2-Dichloroethane-d4	5.08	65	259026	26.51	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	106.04%
29) Benzene-d6	5.10	84	932942	26.85	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	107.40%
33) 1,2-Dichloropropane-d6	6.11	67	292332	26.84	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	107.36%
37) Toluene-d8	7.36	98	876357	27.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	111.16%
38) trans-1,3-Dichloropropene-	7.66	79	118600	25.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.88%
39) 2-Hexanone-d5	8.13	63	118988	54.30	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.60%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	275828	26.67	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	106.68%
61) 1,2-Dichlorobenzene-d4	11.67	152	367953	26.92	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	107.68%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	178743	26.530	ug/L	98
3) Chloromethane	1.25	50	228110	25.925	ug/L	99
5) Vinyl chloride	1.32	62	223960	25.782	ug/L	98
6) Bromomethane	1.54	94	148672	27.416	ug/L	99
8) Chloroethane	1.60	64	148100	27.744	ug/L	99
9) Trichlorofluoromethane	1.77	101	304418	25.910	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	193439	25.760	ug/L	98
12) 1,1-Dichloroethene	2.14	96	178137	25.758	ug/L	96
13) Acetone	2.21	43	141179	40.527	ug/L	99
14) Carbon disulfide	2.32	76	513933	23.264	ug/L	100
15) Methyl Acetate	2.47	43	129932	24.048	ug/L	98
16) Methylene chloride	2.54	84	259354	28.362	ug/L	97
17) Methyl tert-butyl Ether	2.80	73	559626	27.579	ug/L	100
18) trans-1,2-Dichloroethene	2.79	96	215719	26.352	ug/L	98
19) 1,1-Dichloroethane	3.23	63	410327	27.468	ug/L	99
21) 2-Butanone	4.03	43	170506	42.057	ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	246615	27.527	ug/L	97

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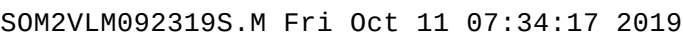
Instrument :
MSVOA_V
ClientSampleId :
VSTD02591

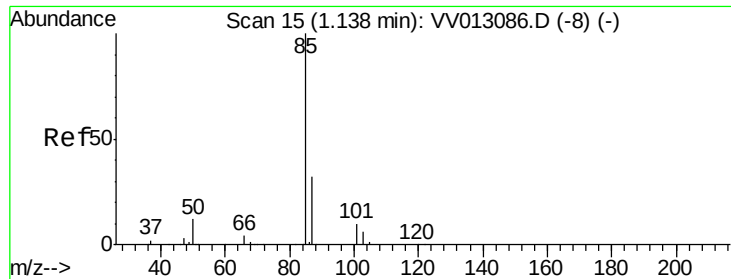
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Quant Title : VOC Analysis
QLast Update : Fri Oct 11 07:31:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	119426	26.987	ug/L	99
25) Chloroform	4.42	83	429908	27.448	ug/L	99
27) 1,2-Dichloroethane	5.18	62	300455	27.140	ug/L	99
30) Cyclohexane	4.73	56	320987	24.044	ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	323885	26.299	ug/L	99
32) Carbon tetrachloride	4.87	117	284778	25.502	ug/L	100
34) Benzene	5.14	78	943489	27.239	ug/L	100
35) Trichloroethene	5.96	95	246406	25.537	ug/L	99
36) Methylcyclohexane	6.17	83	359730	24.286	ug/L	99
40) 1,2-Dichloropropane	6.22	63	247346	27.461	ug/L	100
41) Bromodichloromethane	6.55	83	318147	27.576	ug/L	98
42) cis-1,3-Dichloropropene	7.07	75	349302	26.392	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	375836	50.786	ug/L	99
44) Toluene	7.43	91	1024357	28.041	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	296395	26.608	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	205867	26.922	ug/L	99
47) Tetrachloroethene	8.02	164	199518	25.442	ug/L	99
49) 2-Hexanone	8.18	43	269822	48.370	ug/L	96
50) Dibromochloromethane	8.29	129	236001	26.852	ug/L	99
51) 1,2-Dibromoethane	8.39	107	198463	26.484	ug/L	99
52) Chlorobenzene	8.92	112	682782	27.084	ug/L	99
53) Ethylbenzene	9.05	91	1117836	27.792	ug/L	100
54) m,p-Xylene	9.18	106	440662	28.818	ug/L	98
55) o-xylene	9.59	106	420907	28.889	ug/L	98
56) Styrene	9.60	104	762298	29.736	ug/L	100
57) Isopropylbenzene	9.97	105	1102786	28.801	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	247076	26.121	ug/L	100
59) 1,2,3-Trichloropropane	10.31	75	201222	25.774	ug/L	100
62) Bromoform	9.77	173	149843	25.100	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	581030	26.832	ug/L	98
64) 1,4-Dichlorobenzene	11.31	146	591603	26.031	ug/L	100
65) 1,2-Dichlorobenzene	11.68	146	552300	26.739	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	40833	22.298	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	442601	26.129	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	366726	24.758	ug/L	100
69) Naphthalene	13.55	128	703957	23.629	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	357969	25.136	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 26.530 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

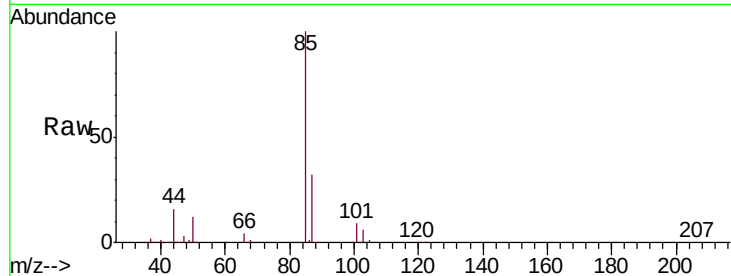
VSTD02591

Tgt Ion: 85 Resp: 178743

Ion Ratio Lower Upper

85 100

87 32.0 23.2 43.0



Abundance Ion 85.00 (84.70 to 85.70): VV013104.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV013104.D (-1) (-)

1.14

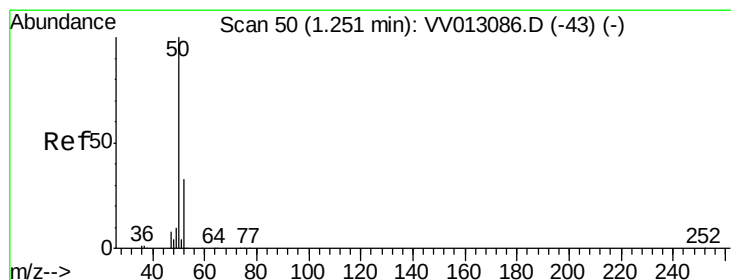
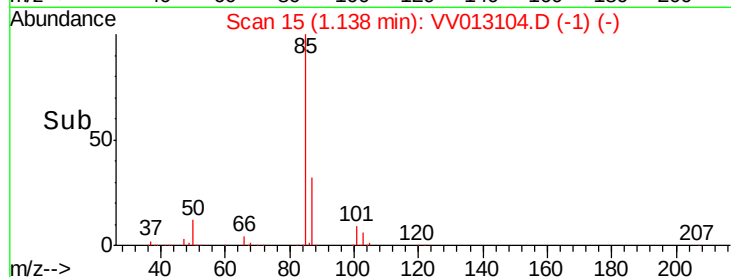
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 25.925 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV013104.D

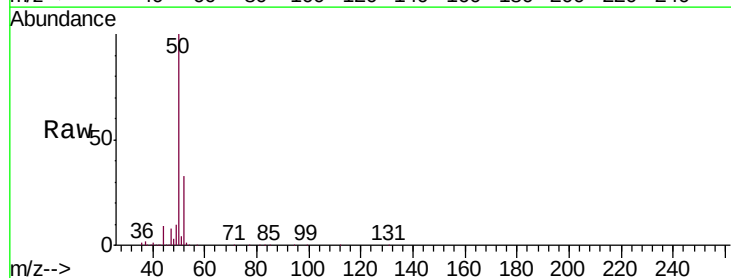
Acq: 10 Oct 2019 21:13

Tgt Ion: 50 Resp: 228110

Ion Ratio Lower Upper

50 100

52 32.9 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV013104.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VV013104.D (-1) (-)

1.25

200000

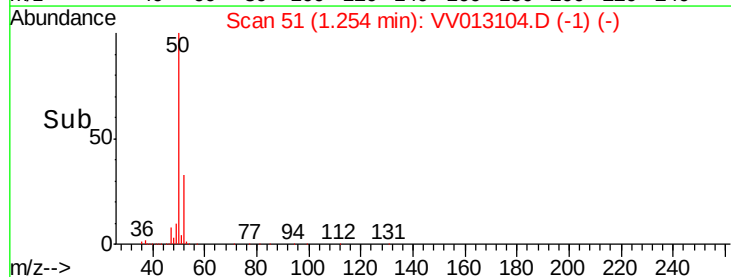
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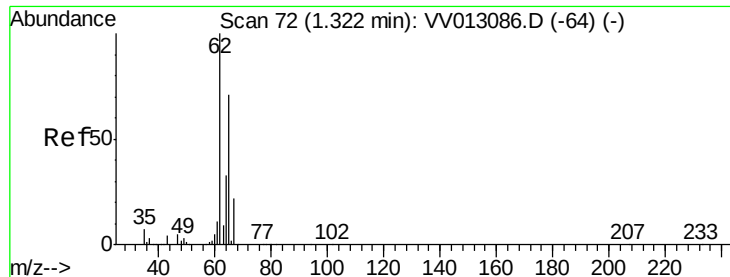
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 25.782 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

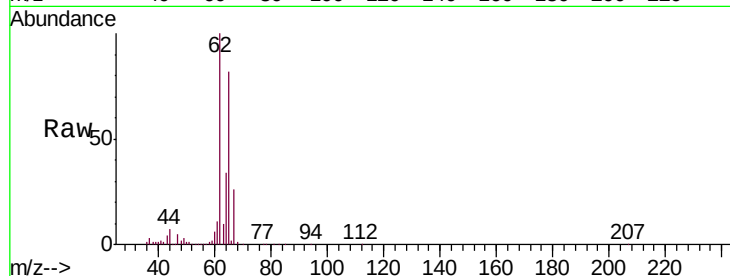
VSTD02591

Tgt Ion: 62 Resp: 223960

Ion Ratio Lower Upper

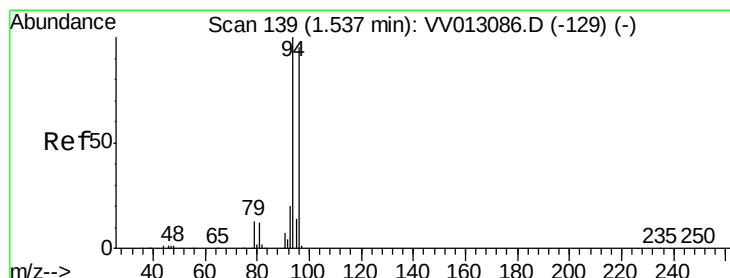
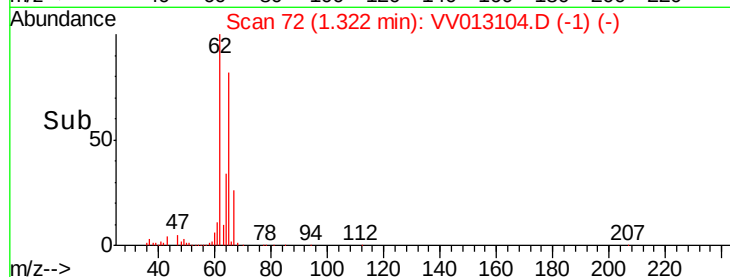
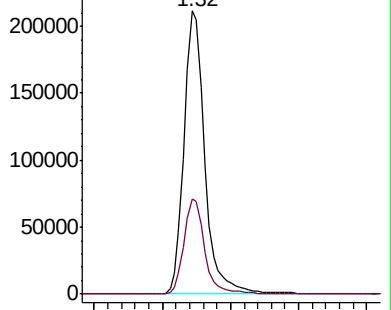
62 100

64 33.7 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV013086.D (-64) (-)

Ion 64.00 (63.70 to 64.70): VV013086.D (-64) (-)



#6

Bromomethane

Concen: 27.416 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV013104.D

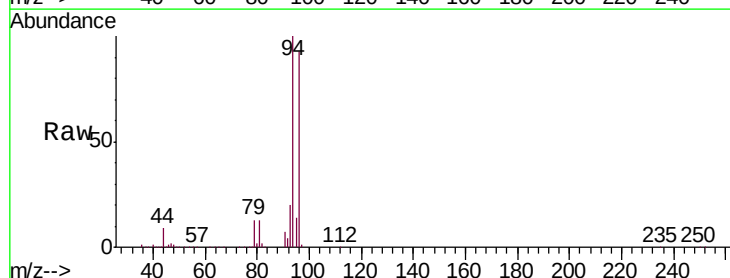
Acq: 10 Oct 2019 21:13

Tgt Ion: 94 Resp: 148672

Ion Ratio Lower Upper

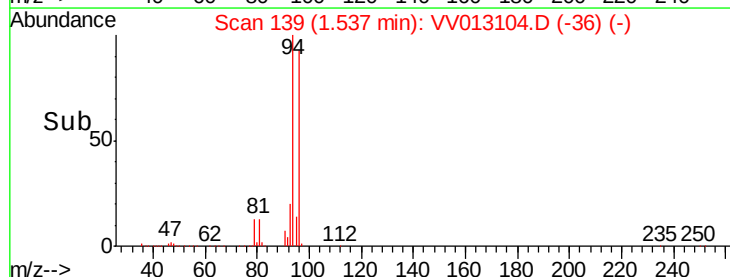
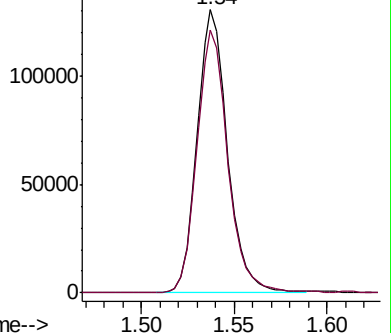
94 100

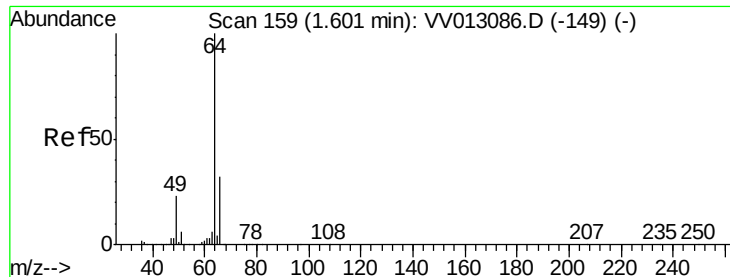
96 94.2 9.4 177.8



Abundance Ion 94.00 (93.70 to 94.70): VV013086.D (-129) (-)

Ion 96.00 (95.70 to 96.70): VV013086.D (-129) (-)





#8

Chloroethane

Concen: 27.744 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

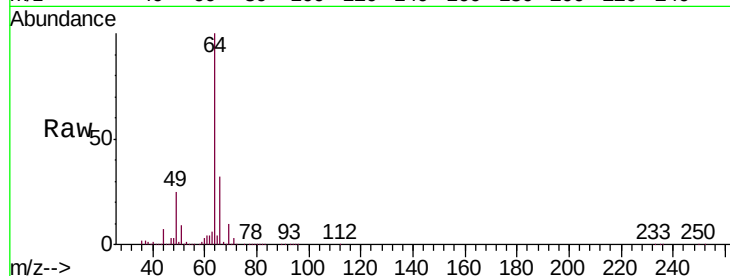
VSTD02591

Tgt Ion: 64 Resp: 148100

Ion Ratio Lower Upper

64 100

66 32.3 22.2 41.2



Abundance Ion 64.00 (63.70 to 64.70): VV013104.D (-56) (-)

Ion 66.00 (65.70 to 66.70): VV013104.D (-56) (-)

1.60

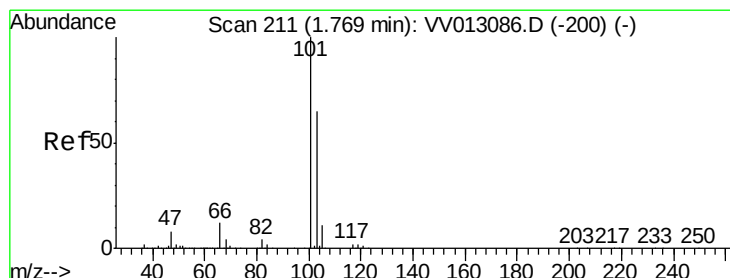
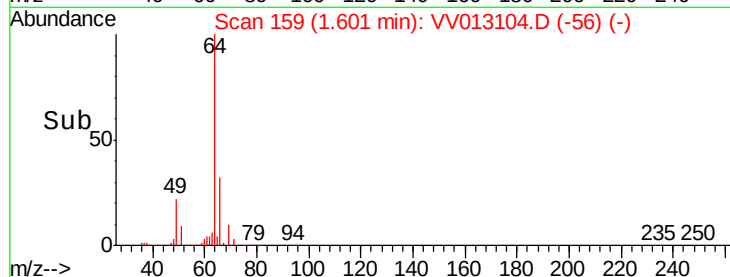
150000

100000

50000

0

Time-->



#9

Trichlorofluoromethane

Concen: 25.910 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013104.D

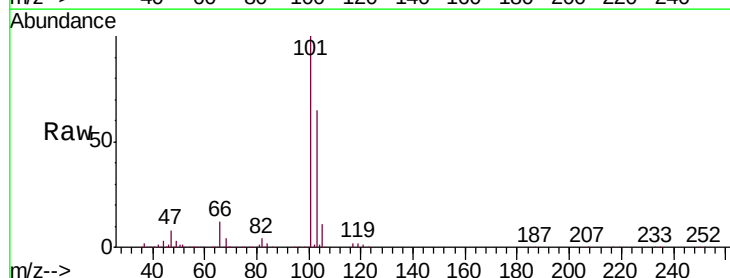
Acq: 10 Oct 2019 21:13

Tgt Ion: 101 Resp: 304418

Ion Ratio Lower Upper

101 100

103 65.1 45.1 83.9



Abundance Ion 101.00 (100.70 to 101.70): VV013104.D (-56) (-)

Ion 103.00 (102.70 to 103.70): VV013104.D (-56) (-)

1.77

250000

200000

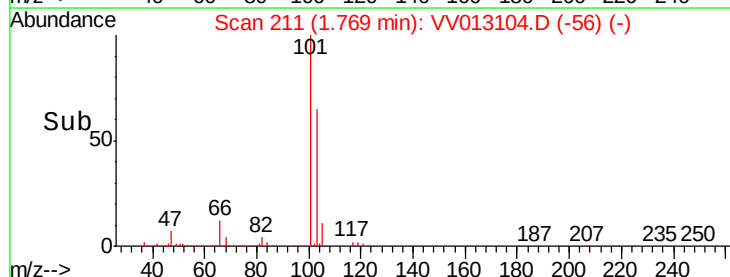
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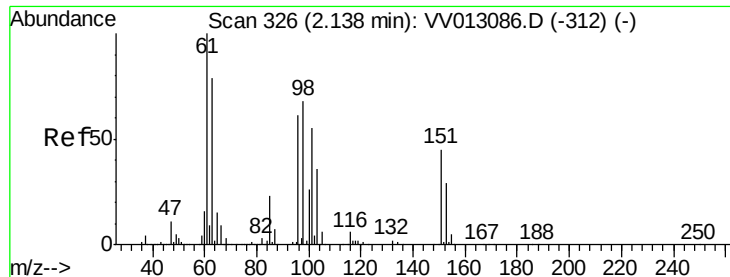
100000

50000

0

Time-->





#11

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

Concen: 25.760 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampled :

VSTD02591

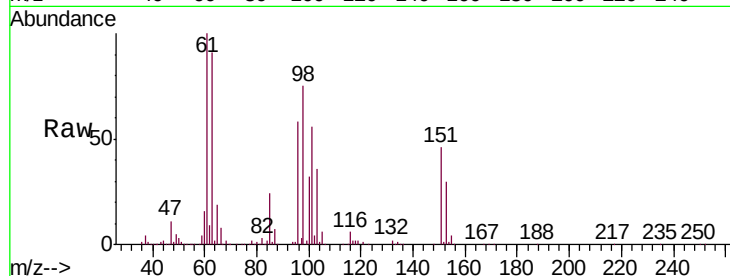
Tgt Ion:101 Resp: 193439

Ion Ratio Lower Upper

101 100

85 42.0 32.6 49.0

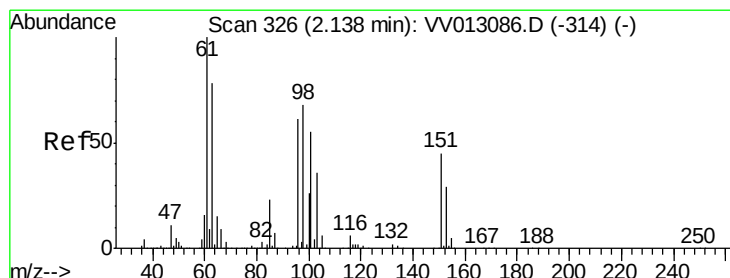
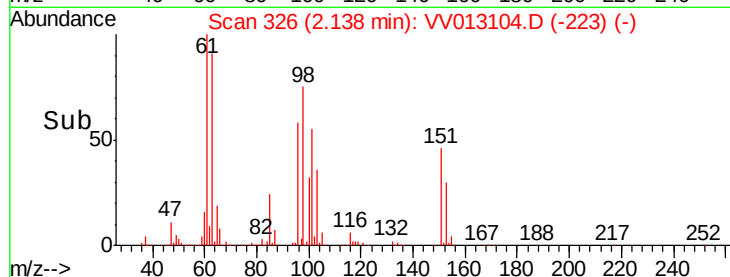
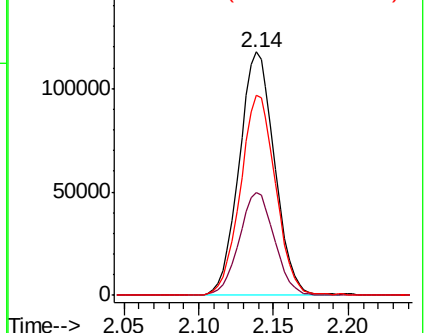
151 81.9 64.2 96.4



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: 25.758 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

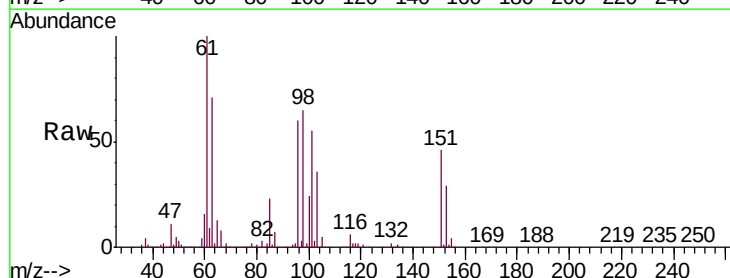
Tgt Ion: 96 Resp: 178137

Ion Ratio Lower Upper

96 100

61 165.7 117.2 217.8

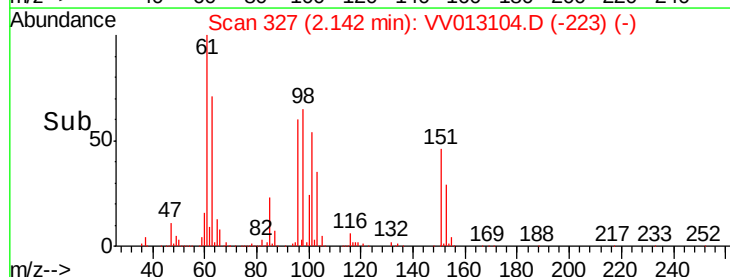
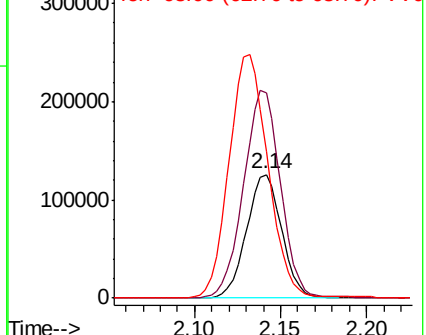
63 118.3 89.6 166.4

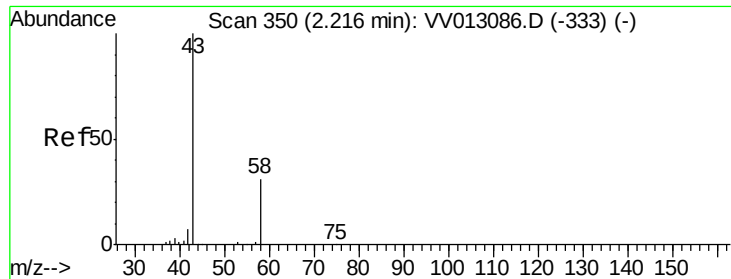


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 40.527 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

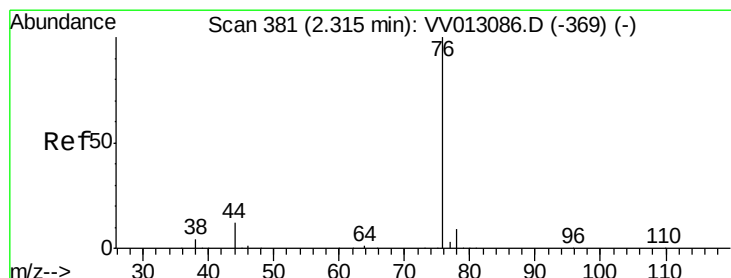
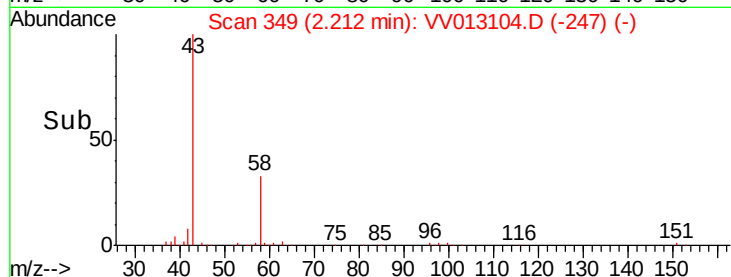
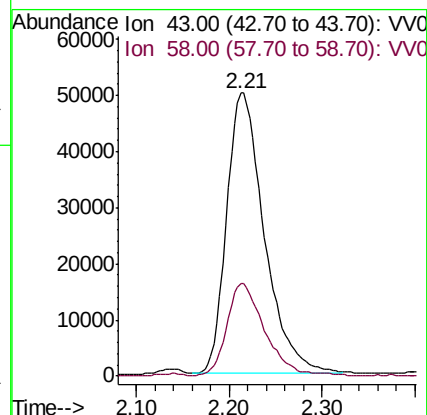
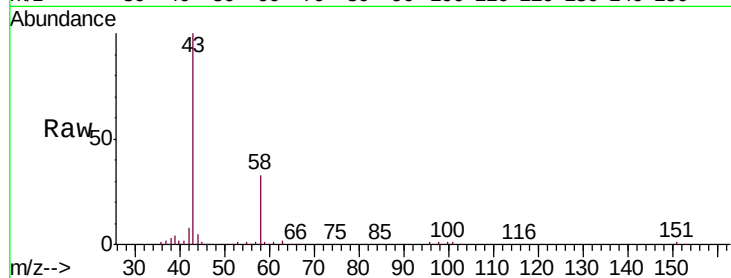
VSTD02591

Tgt Ion: 43 Resp: 141179

Ion Ratio Lower Upper

43 100

58 32.2 0.0 65.0



#14

Carbon disulfide

Concen: 23.264 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV013104.D

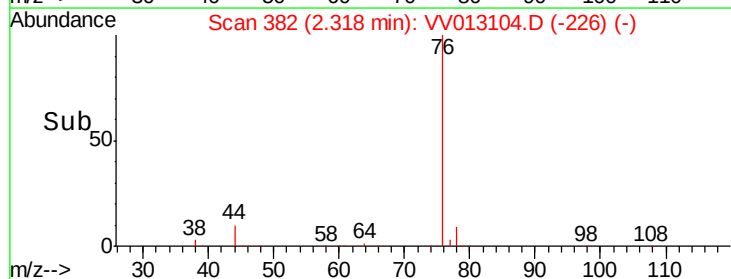
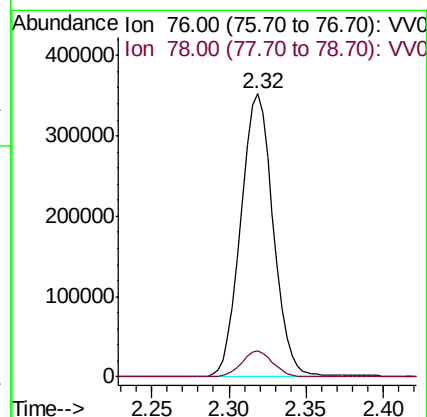
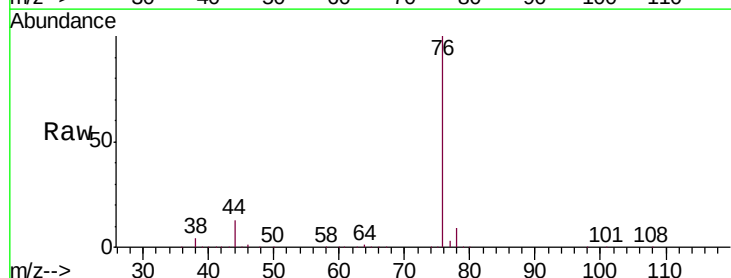
Acq: 10 Oct 2019 21:13

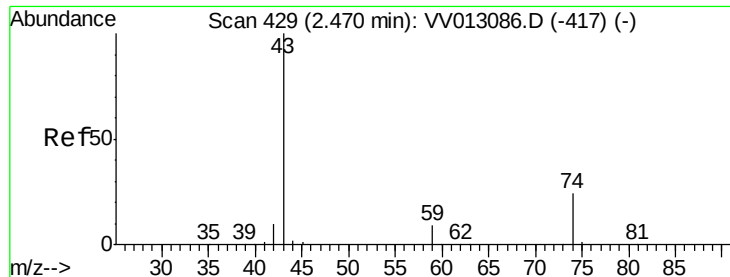
Tgt Ion: 76 Resp: 513933

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9





#15

Methyl Acetate

Concen: 24.048 ug/L

RT: 2.47 min Scan# 428

Delta R.T. -0.00 min

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Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

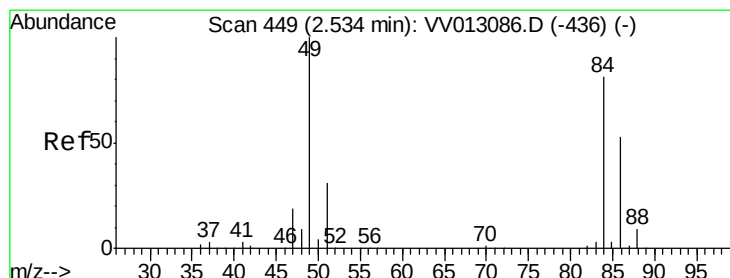
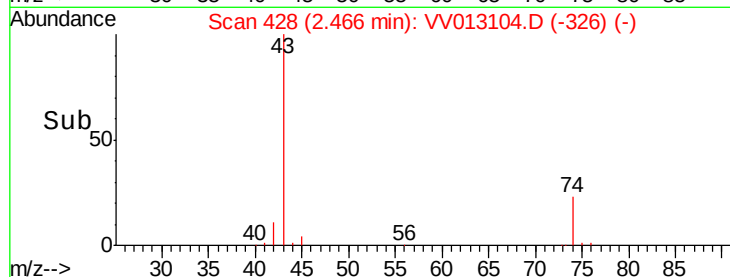
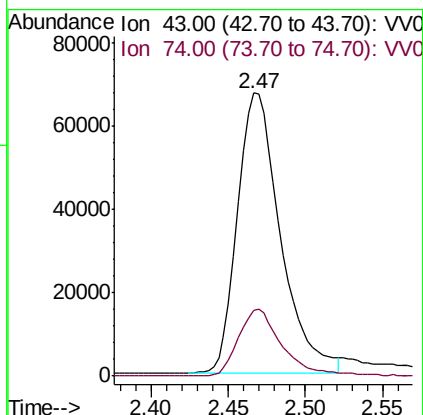
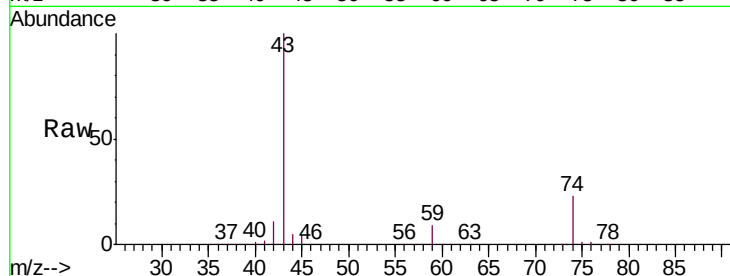
VSTD02591

Tgt Ion: 43 Resp: 129932

Ion Ratio Lower Upper

43 100

74 24.2 18.8 28.2



#16

Methylene chloride

Concen: 28.362 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

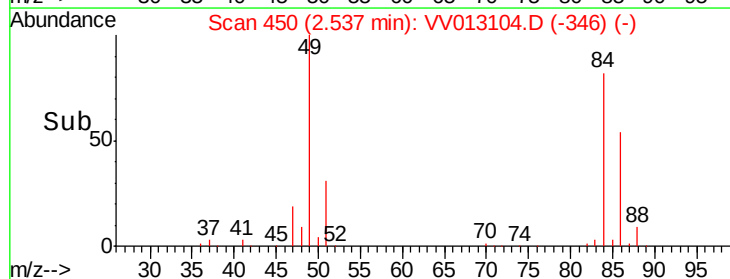
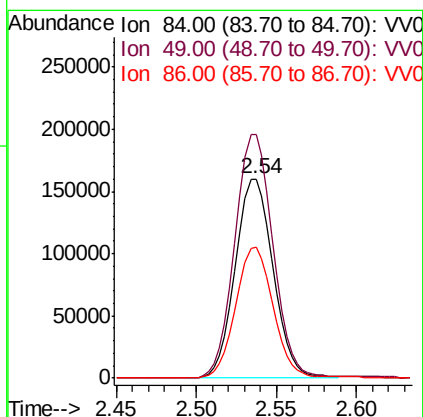
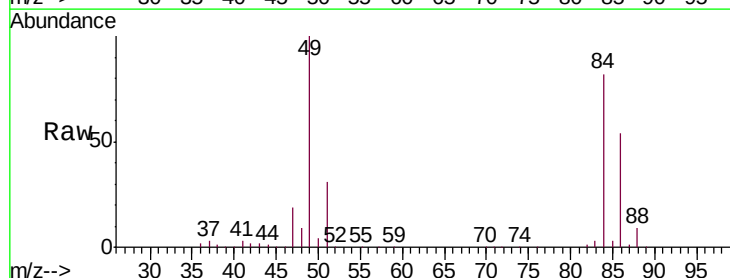
Tgt Ion: 84 Resp: 259354

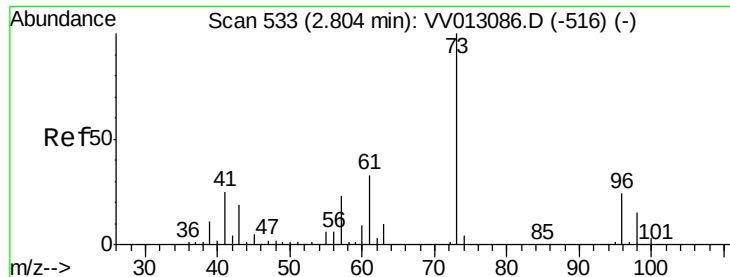
Ion Ratio Lower Upper

84 100

49 122.4 88.3 164.1

86 65.7 44.9 83.3

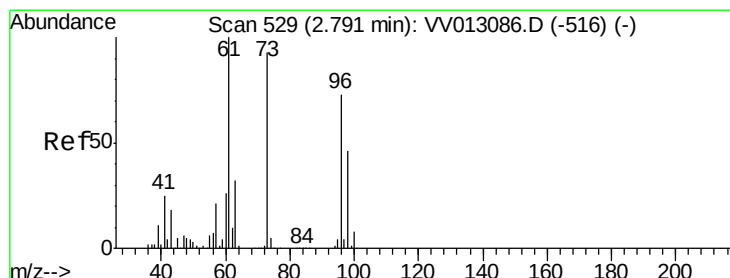
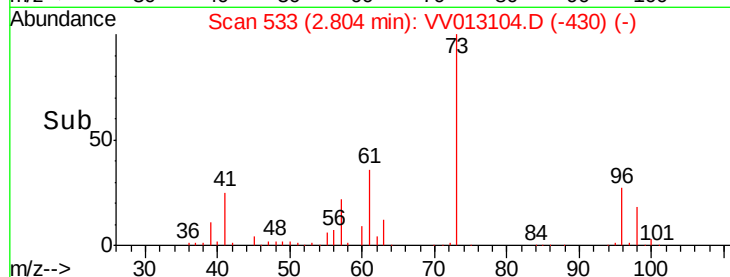
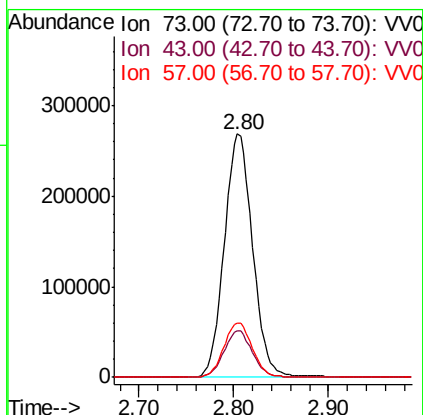
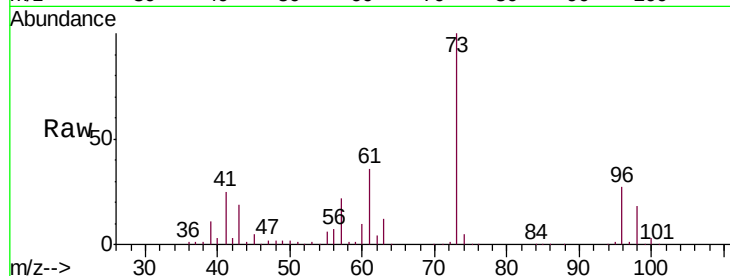




#17
Methyl tert-butyl Ether
Concen: 27.579 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

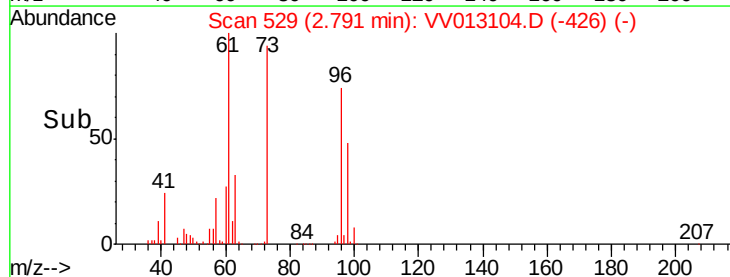
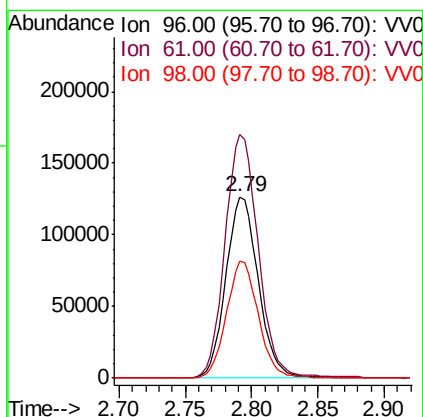
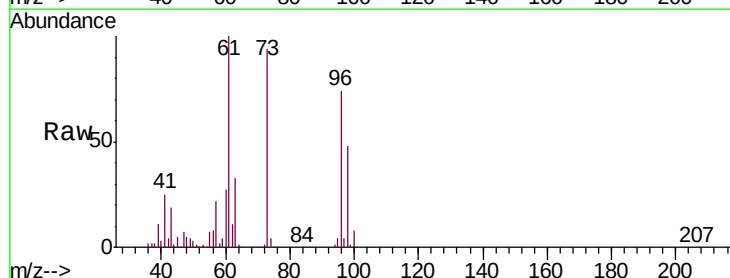
Instrument :
MSVOA_V
ClientSampleId :
VSTD02591

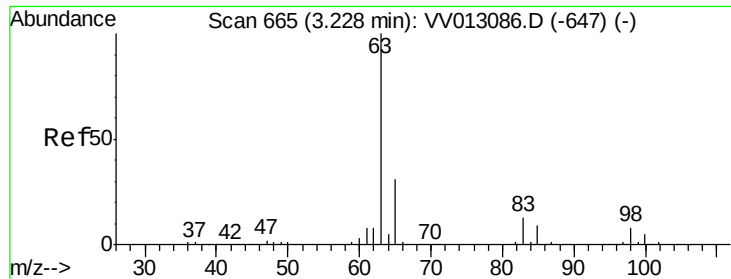
Tgt Ion: 73 Resp: 559626
Ion Ratio Lower Upper
73 100
43 18.9 15.0 22.6
57 22.6 18.3 27.5



#18
trans-1,2-Dichloroethene
Concen: 26.352 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

Tgt Ion: 96 Resp: 215719
Ion Ratio Lower Upper
96 100
61 134.5 96.8 179.8
98 64.2 44.8 83.2

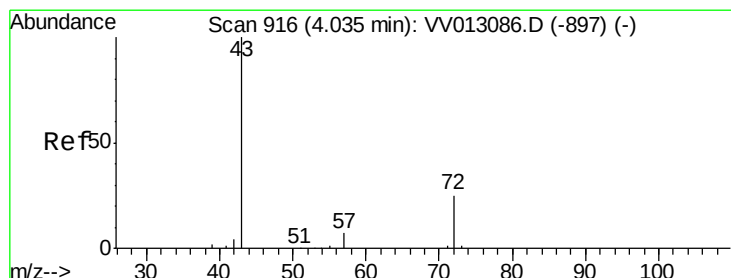
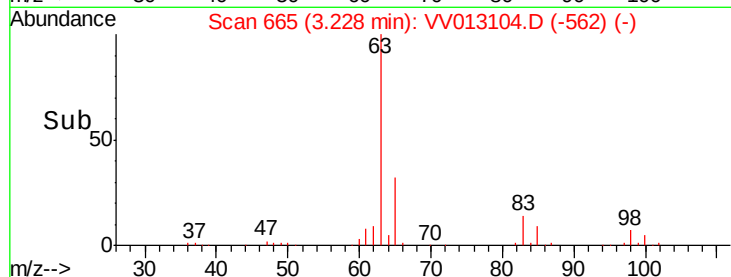
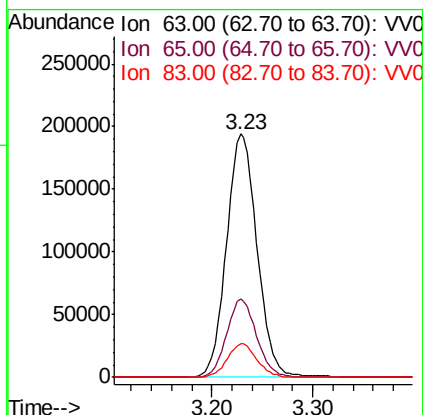
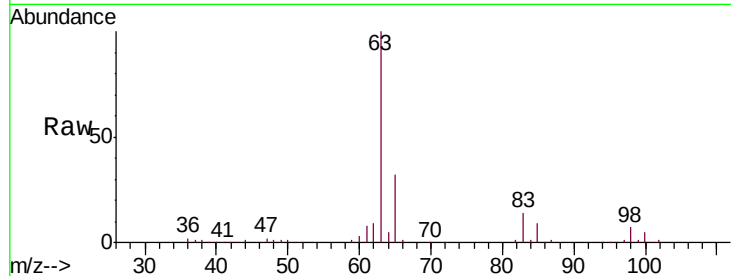




#19
 1,1-Dichloroethane
 Concen: 27.468 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

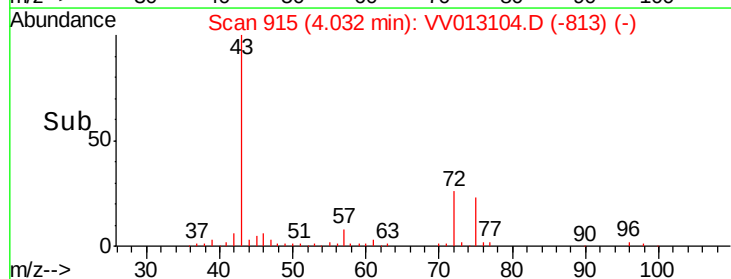
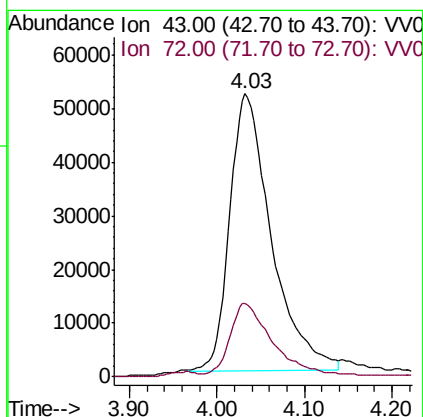
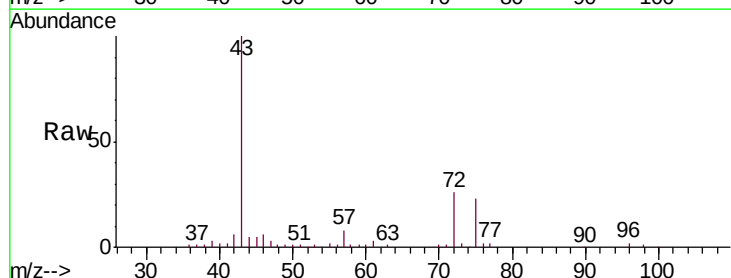
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD02591

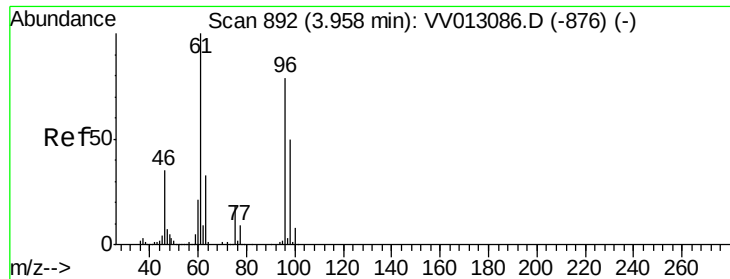
Tgt Ion: 63 Resp: 410327
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.0 41.0
 83 13.7 9.2 17.0



#21
 2-Butanone
 Concen: 42.057 ug/L
 RT: 4.03 min Scan# 915
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

Tgt Ion: 43 Resp: 170506
 Ion Ratio Lower Upper
 43 100
 72 25.3 11.9 35.9



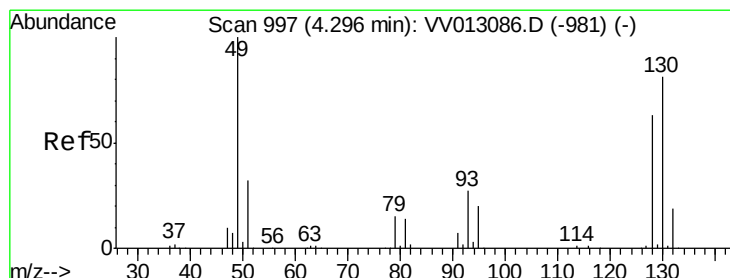
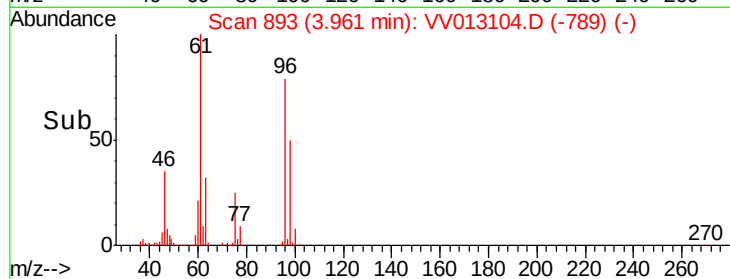
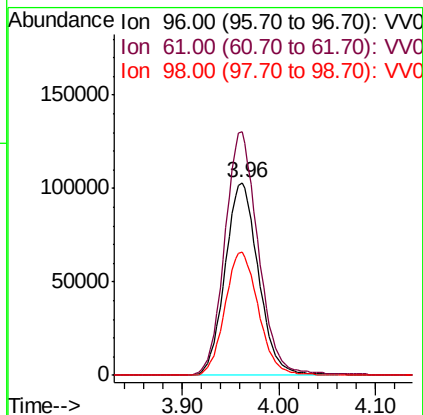
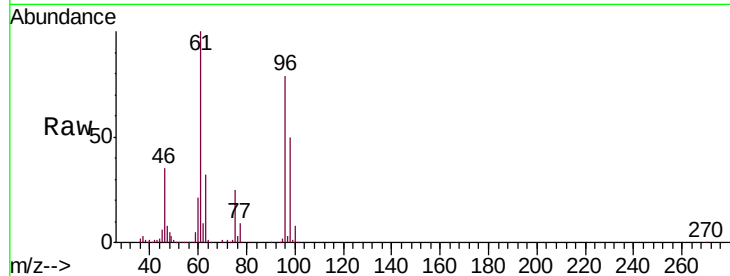


#22

cis-1,2-Dichloroethene
Concen: 27.527 ug/L
RT: 3.96 min Scan# 893
Delta R.T. 0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

Instrument :
MSVOA_V
ClientSampleId :
VSTD02591

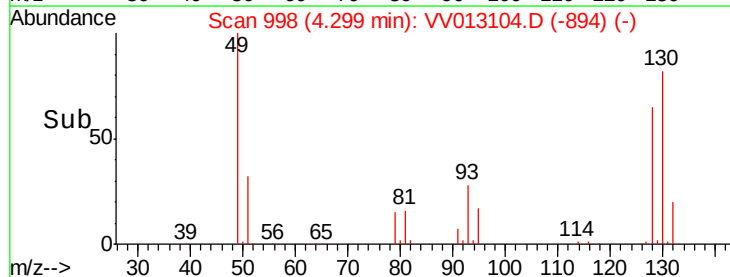
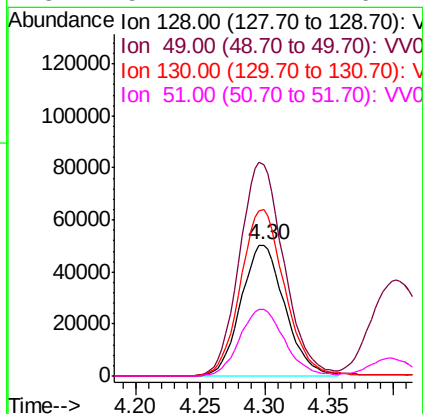
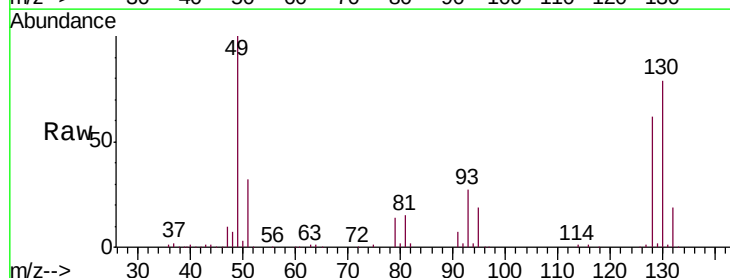
Tgt Ion: 96 Resp: 246615
Ion Ratio Lower Upper
96 100
61 126.2 90.9 168.7
98 63.6 45.6 84.6

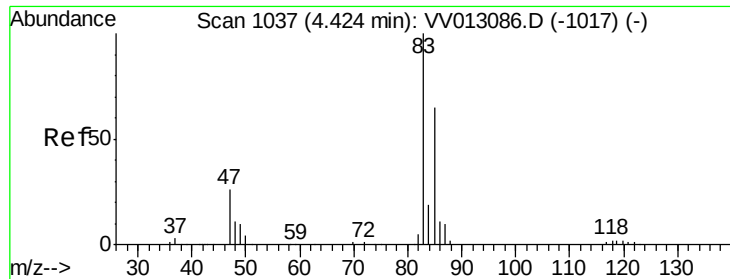


#23

Bromochloromethane
Concen: 26.987 ug/L
RT: 4.30 min Scan# 998
Delta R.T. 0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

Tgt Ion: 128 Resp: 119426
Ion Ratio Lower Upper
128 100
49 161.1 114.4 212.6
130 126.6 88.5 164.4
51 51.1 41.4 62.2

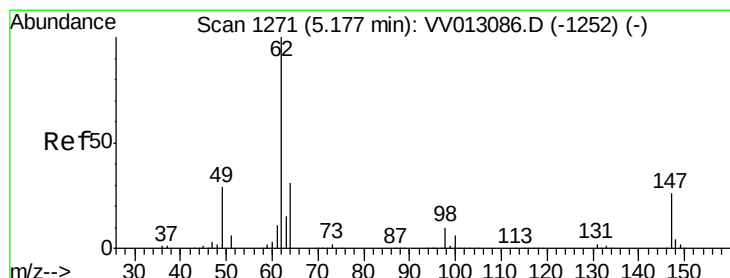
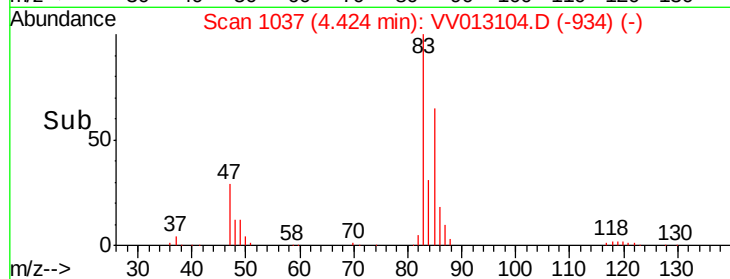
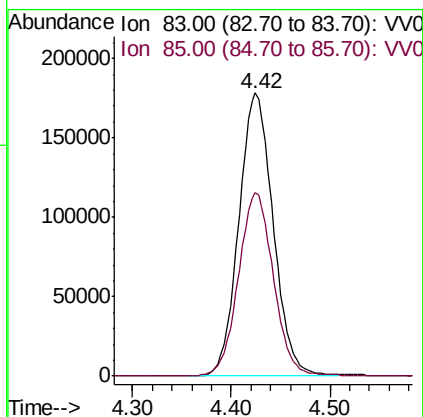
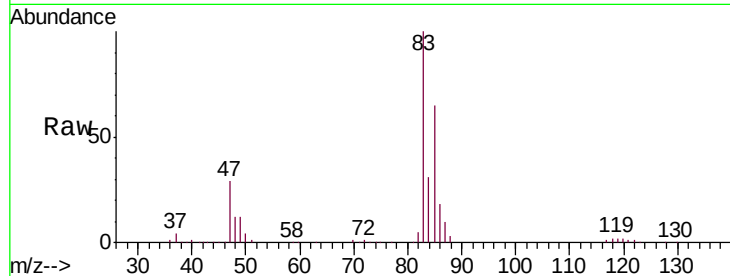




#25
Chloroform
Concen: 27.448 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

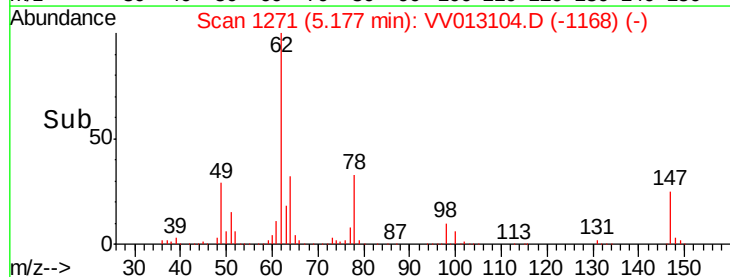
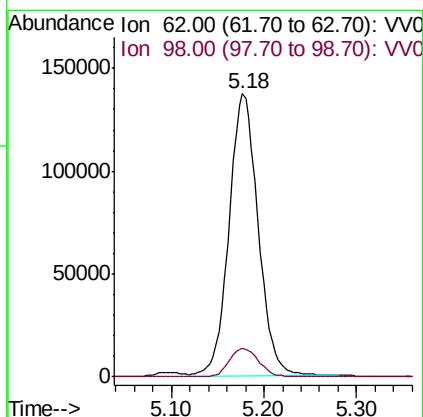
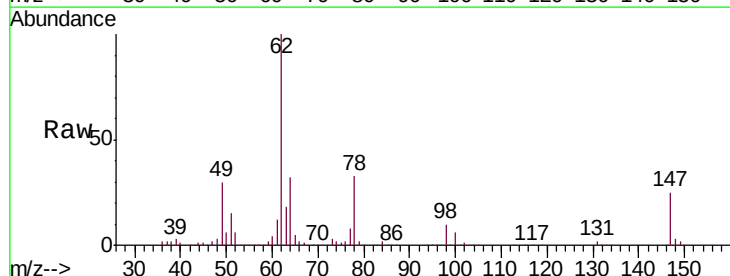
Instrument :
MSVOA_V
ClientSampleId :
VSTD02591

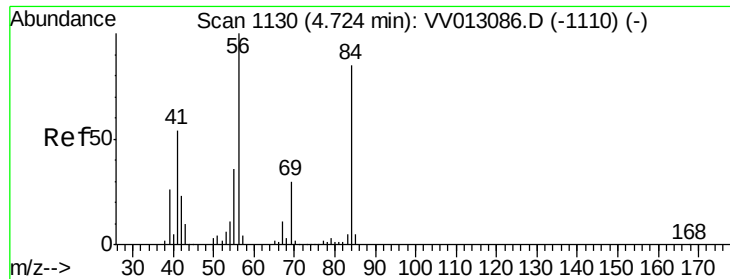
Tgt Ion: 83 Resp: 429908
Ion Ratio Lower Upper
83 100
85 66.2 45.8 85.0



#27
1,2-Dichloroethane
Concen: 27.140 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

Tgt Ion: 62 Resp: 300455
Ion Ratio Lower Upper
62 100
98 10.0 8.2 12.4

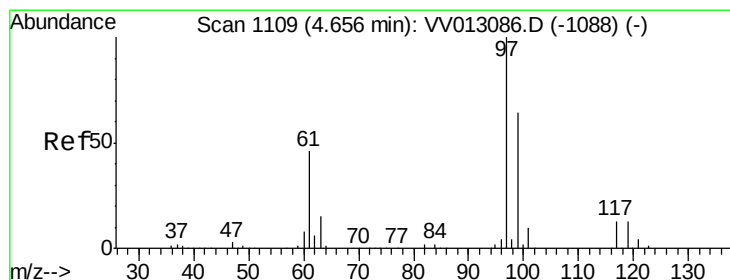
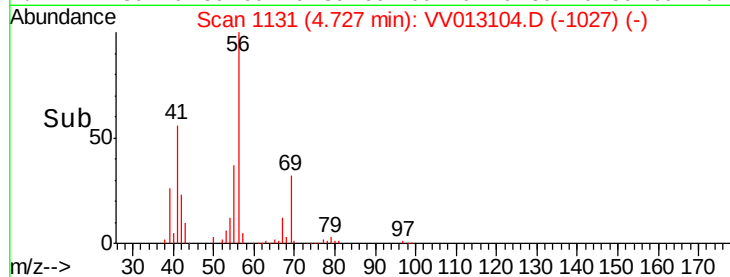
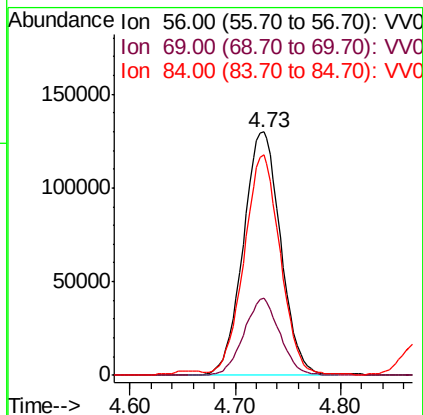
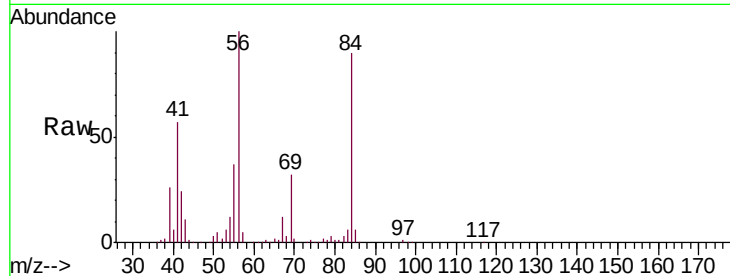




#30
Cyclohexane
Concen: 24.044 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

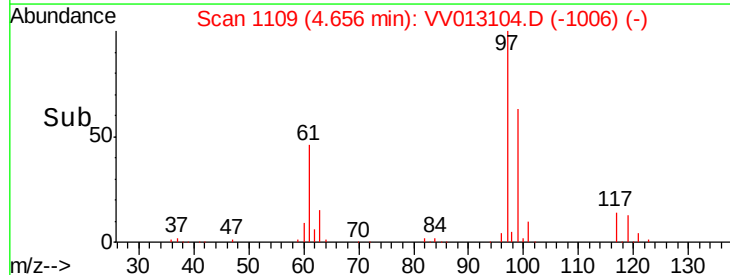
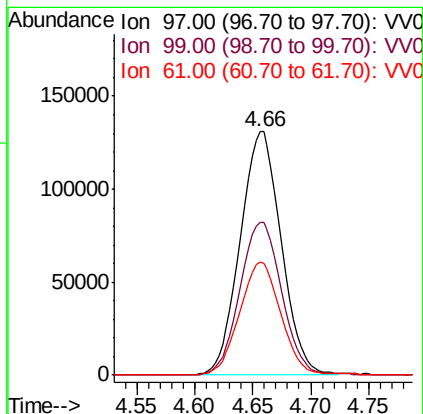
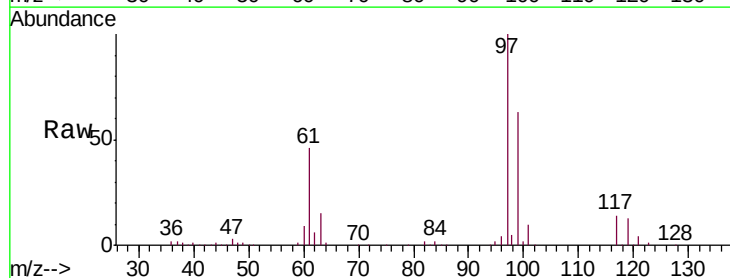
Instrument :
MSVOA_V
ClientSampleId :
VSTD02591

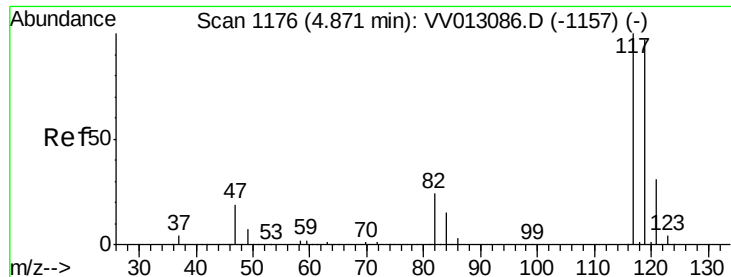
Tgt Ion: 56 Resp: 320987
Ion Ratio Lower Upper
56 100
69 30.4 23.8 35.8
84 87.5 68.4 102.6



#31
1,1,1-Trichloroethane
Concen: 26.299 ug/L
RT: 4.66 min Scan# 1109
Delta R.T. -0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

Tgt Ion: 97 Resp: 323885
Ion Ratio Lower Upper
97 100
99 63.9 51.7 77.5
61 46.5 37.8 56.8





#32

Carbon tetrachloride

Concen: 25.502 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

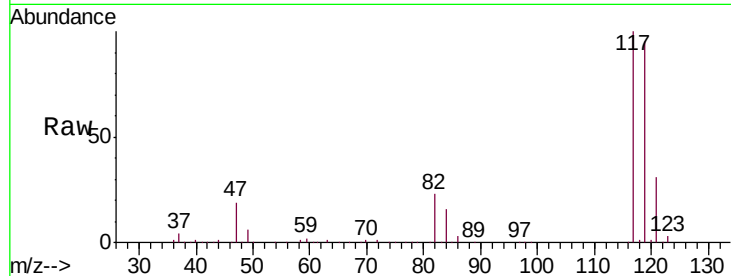
VSTD02591

Tgt Ion:117 Resp: 284778

Ion Ratio Lower Upper

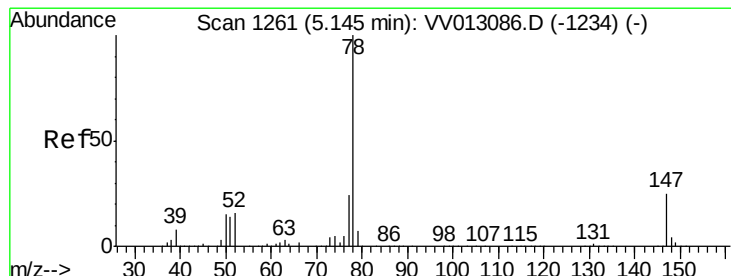
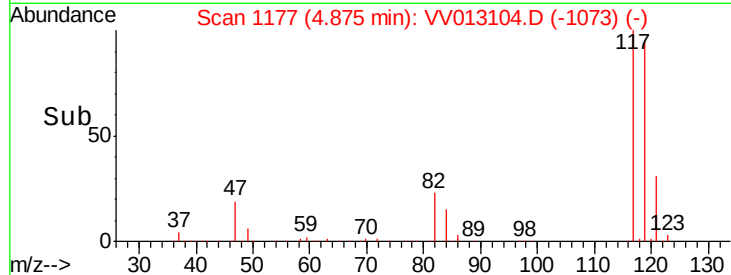
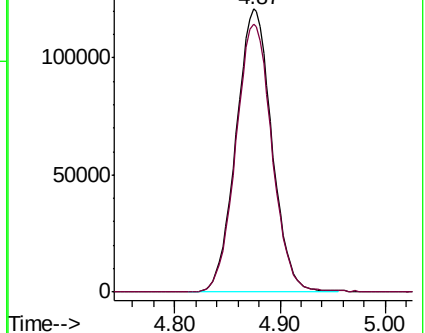
117 100

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



#34

Benzene

Concen: 27.239 ug/L

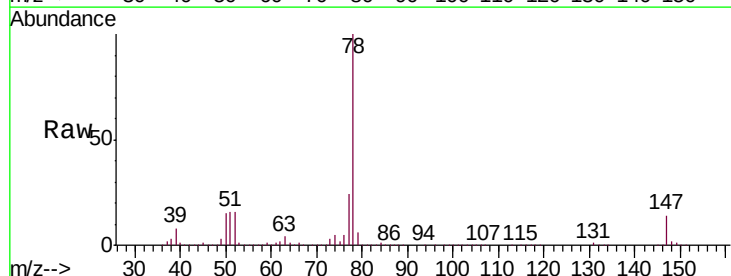
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

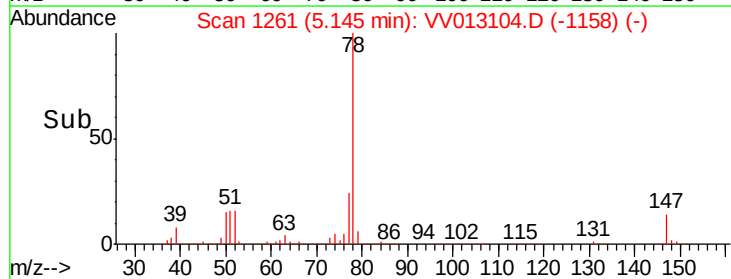
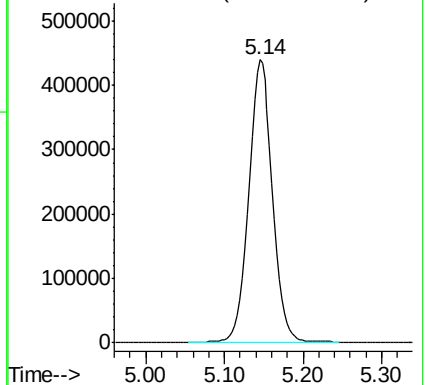
Lab File: VV013104.D

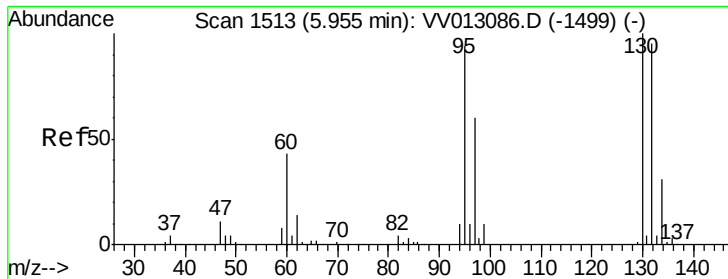
Acq: 10 Oct 2019 21:13

Tgt Ion: 78 Resp: 943489



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 25.537 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD02591

Tgt Ion: 95 Resp: 246406

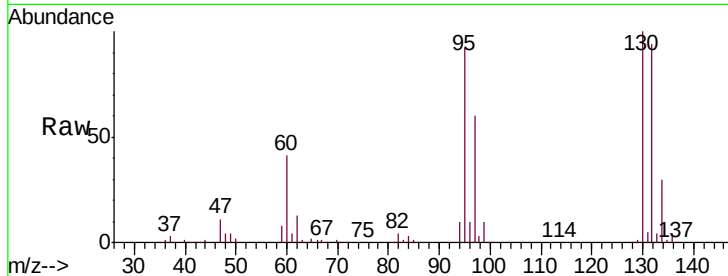
Ion Ratio Lower Upper

95 100

97 63.4 44.7 82.9

132 100.8 70.1 130.1

130 106.7 73.3 136.1

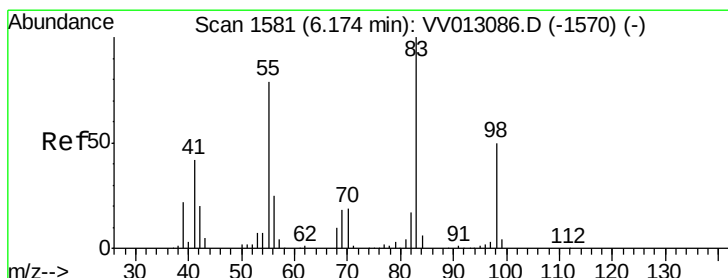
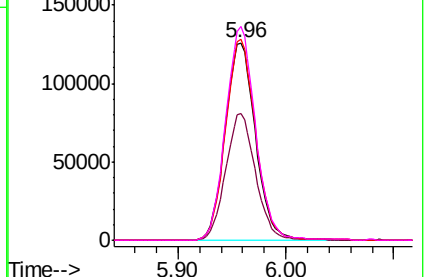
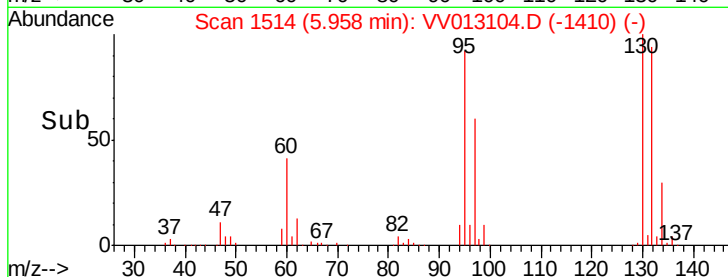


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 24.286 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

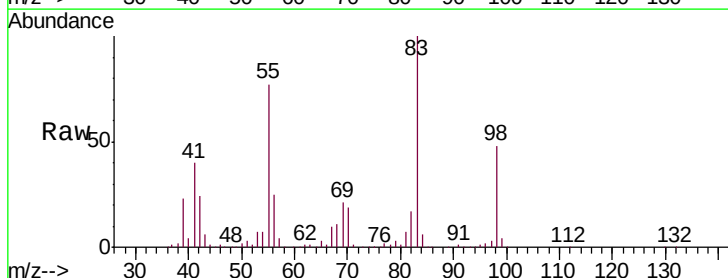
Tgt Ion: 83 Resp: 359730

Ion Ratio Lower Upper

83 100

55 78.6 61.8 92.8

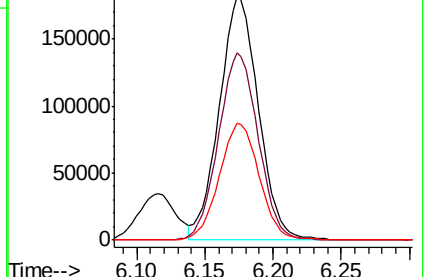
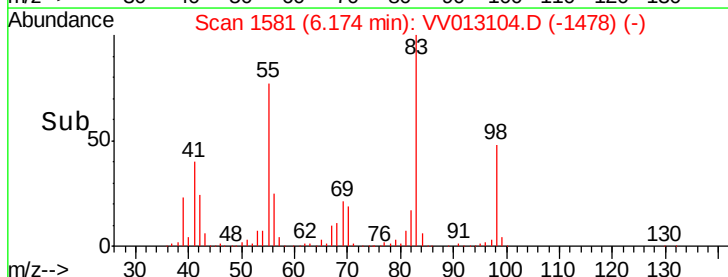
98 49.4 39.3 58.9

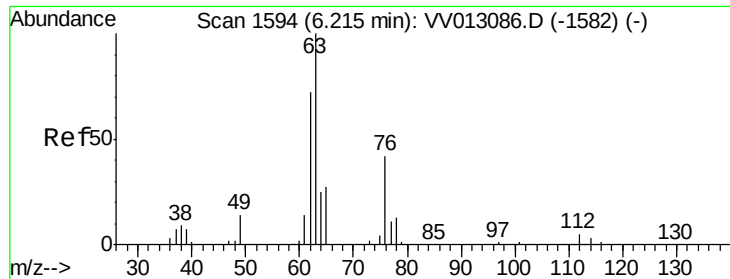


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 27.461 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

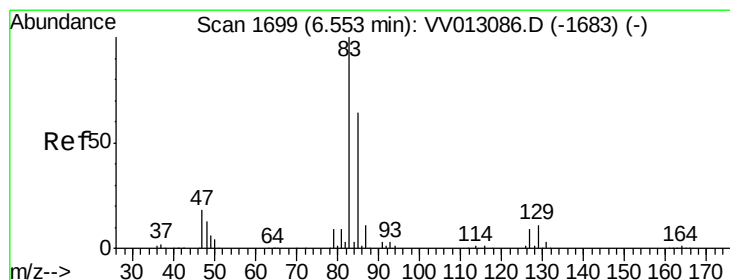
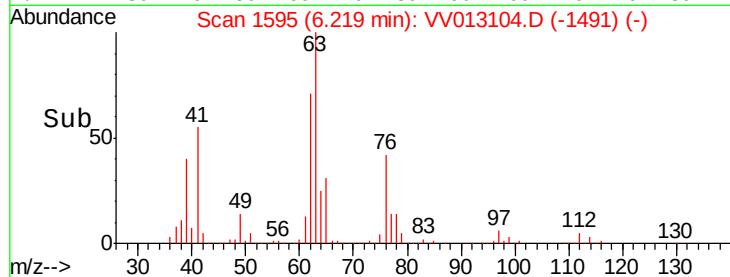
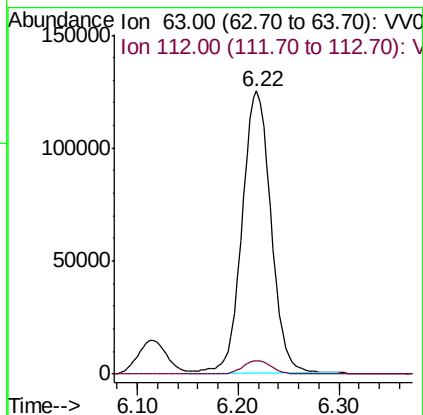
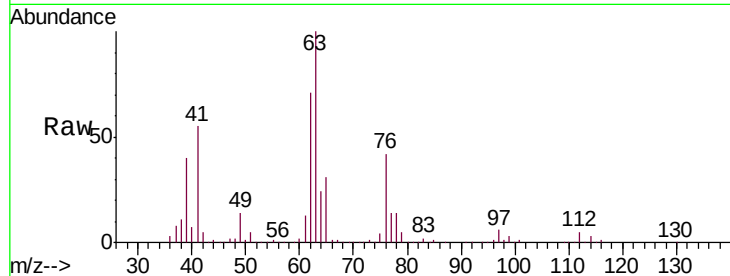
VSTD02591

Tgt Ion: 63 Resp: 247346

Ion Ratio Lower Upper

63 100

112 4.8 3.8 5.6



#41

Bromodichloromethane

Concen: 27.576 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

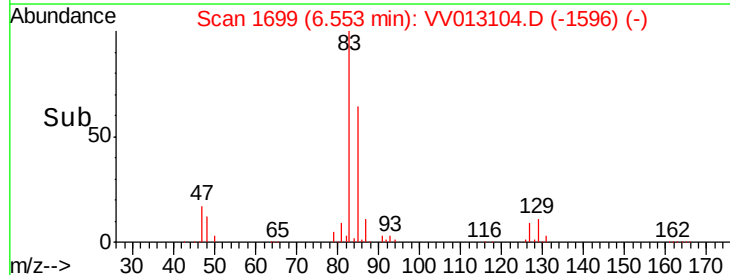
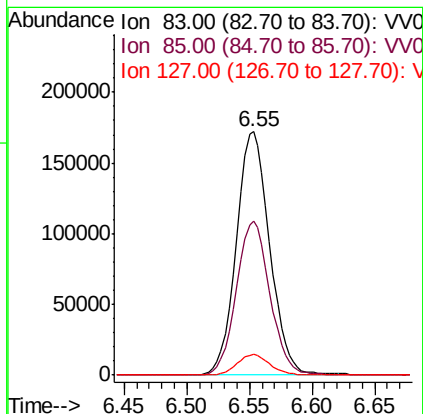
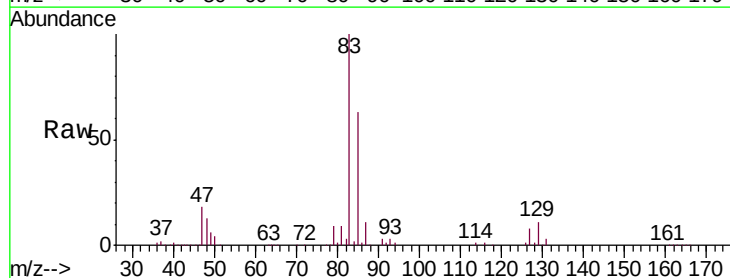
Tgt Ion: 83 Resp: 318147

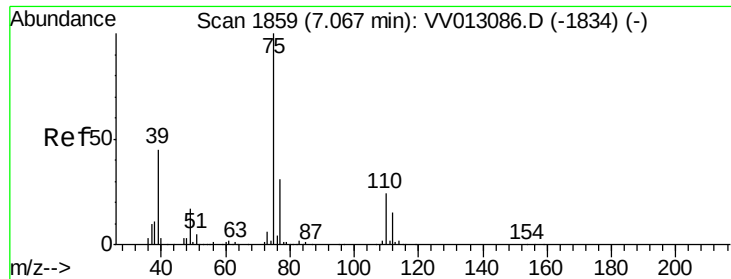
Ion Ratio Lower Upper

83 100

85 63.4 45.3 84.1

127 8.5 7.2 10.8

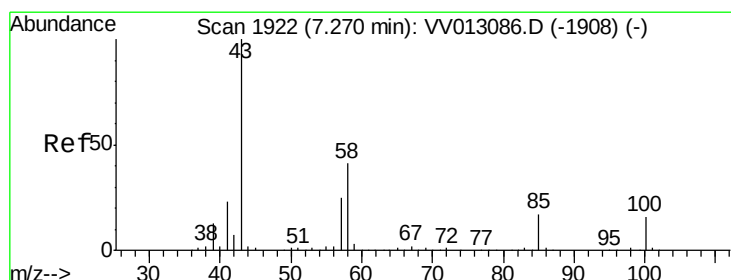
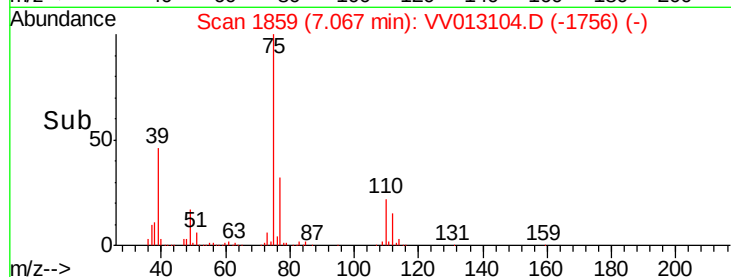
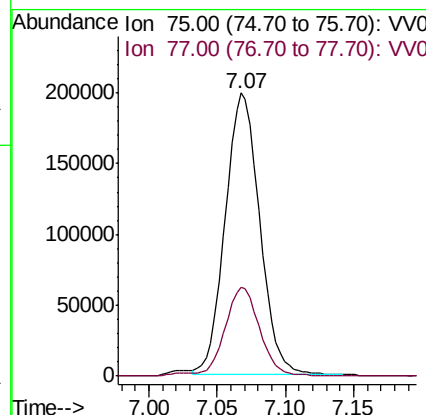
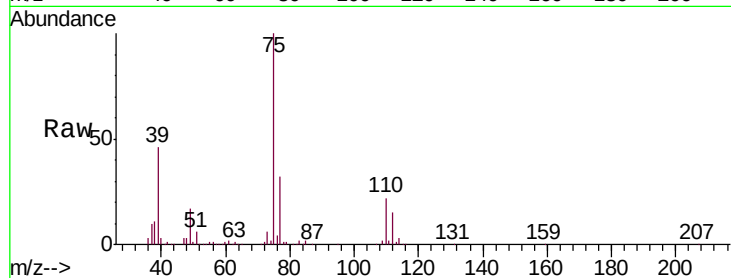




#42
 cis-1,3-Dichloropropene
 Concen: 26.392 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

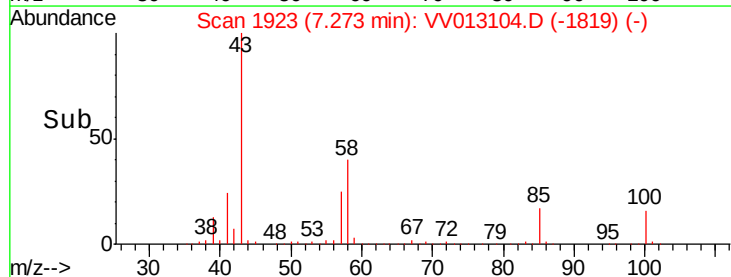
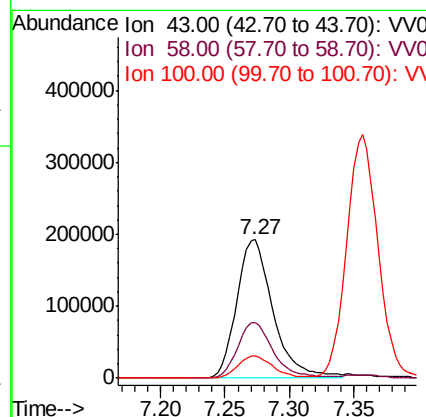
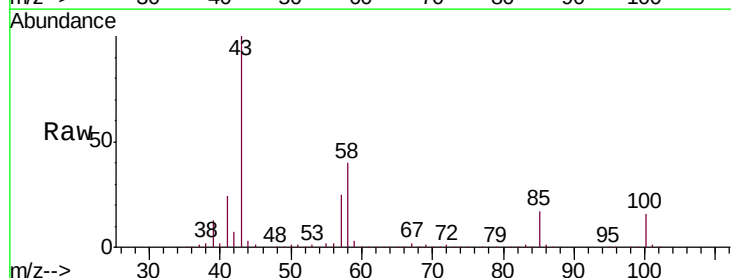
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02591

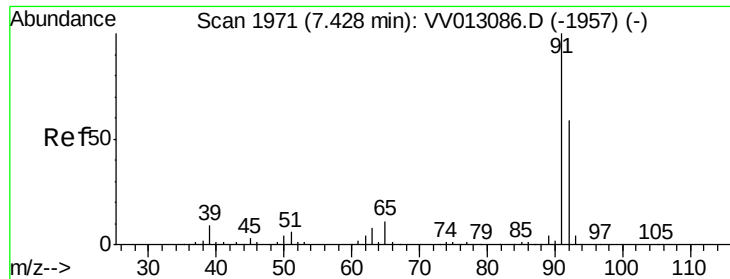
Tgt Ion: 75 Resp: 349302
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.5 39.9



#43
 4-Methyl-2-pentanone
 Concen: 50.786 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

Tgt Ion: 43 Resp: 375836
 Ion Ratio Lower Upper
 43 100
 58 39.5 31.2 46.8
 100 15.7 12.2 18.2





#44

Toluene

Concen: 28.041 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

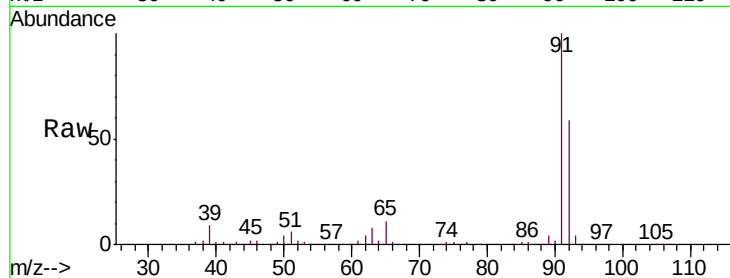
VSTD02591

Tgt Ion: 91 Resp: 1024357

Ion Ratio Lower Upper

91 100

92 58.8 41.3 76.7



Abundance Ion 91.00 (90.70 to 91.70): VV013104.D (-1868) (-)

Ion 92.00 (91.70 to 92.70): VV013104.D (-1868) (-)

600000

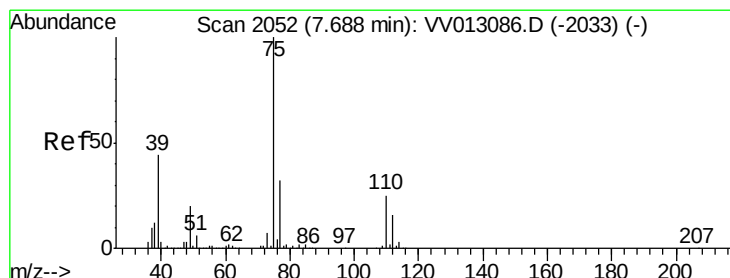
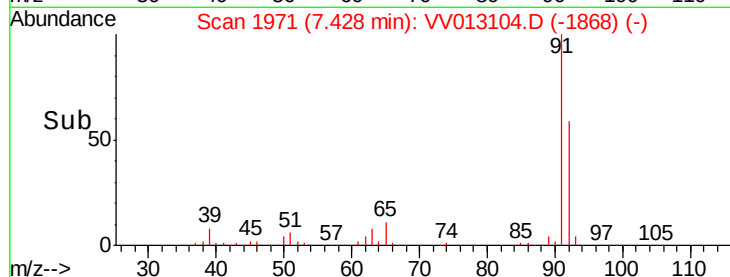
400000

200000

0

7.40 7.43 7.50 7.60

Time-->



#45

trans-1,3-Dichloropropene

Concen: 26.608 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV013104.D

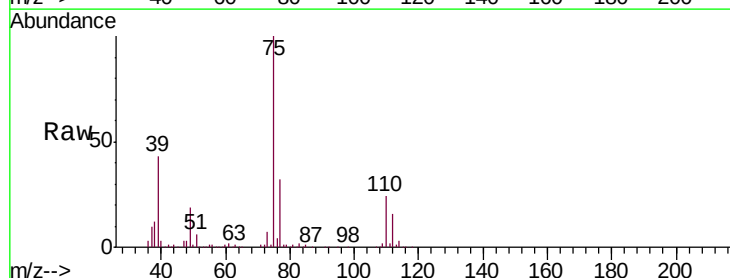
Acq: 10 Oct 2019 21:13

Tgt Ion: 75 Resp: 296395

Ion Ratio Lower Upper

75 100

77 31.5 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV013104.D (-1949) (-)

Ion 77.00 (76.70 to 77.70): VV013104.D (-1949) (-)

200000

150000

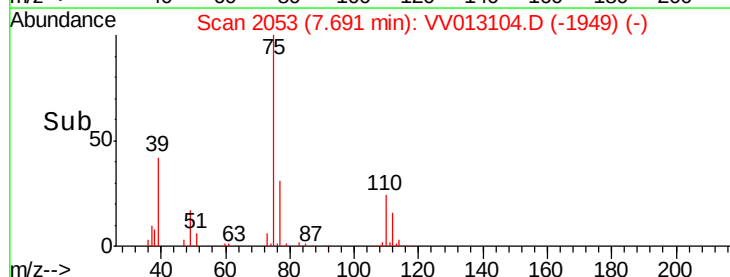
100000

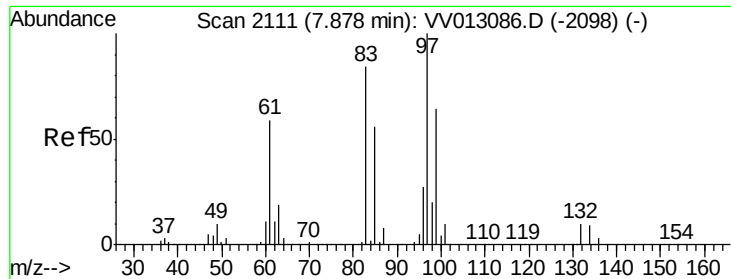
50000

0

7.60 7.69 7.70 7.80

Time-->

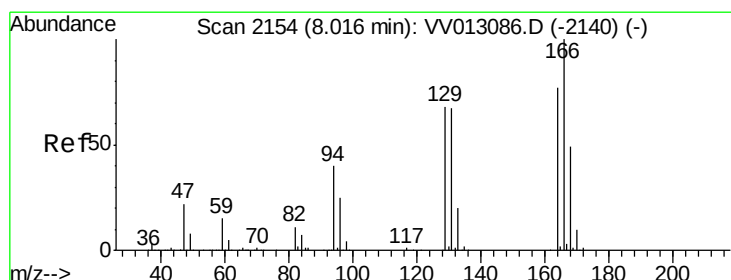
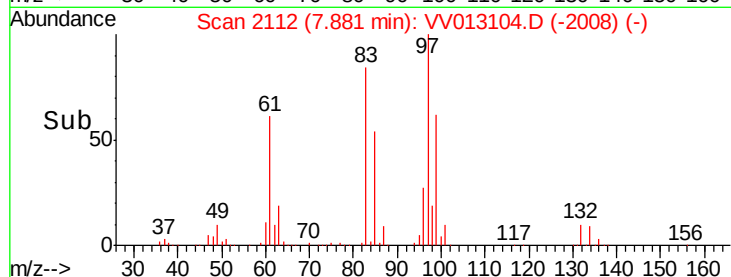
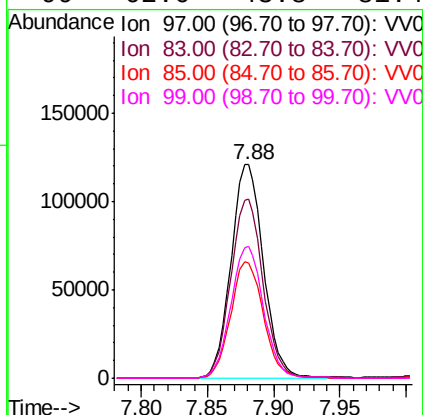
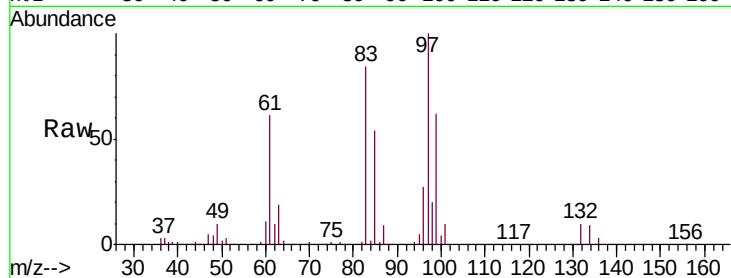




#46
 1,1,2-Trichloroethane
 Concen: 26.922 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

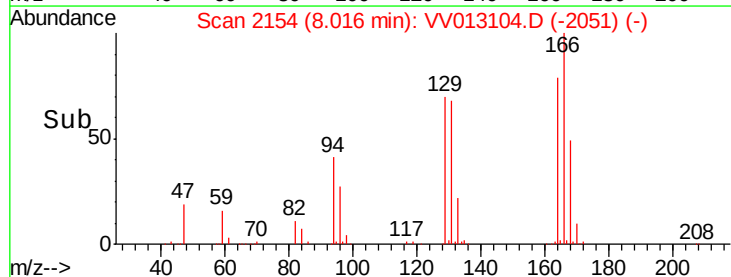
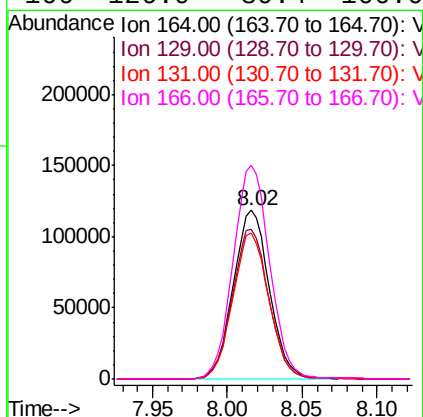
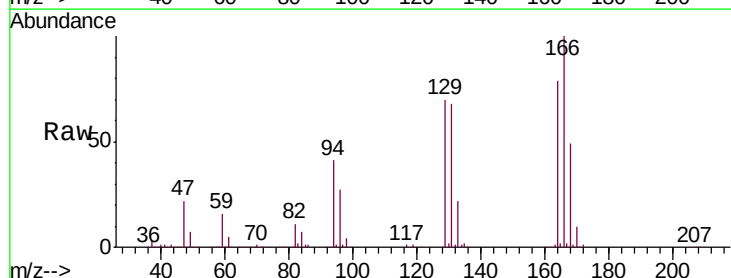
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02591

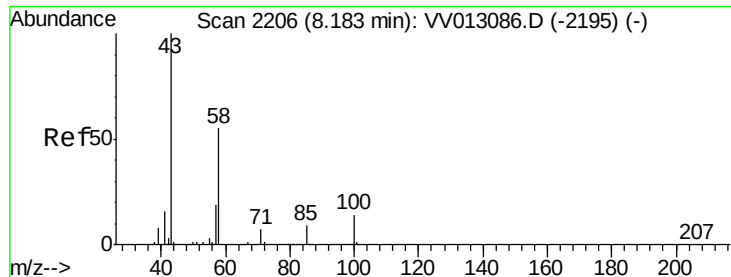
Tgt Ion:	97	Resp:	205867
Ion	Ratio	Lower	Upper
97	100		
83	84.1	58.9	109.5
85	53.9	38.4	71.2
99	62.0	43.8	81.4



#47
 Tetrachloroethene
 Concen: 25.442 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

Tgt Ion:	164	Resp:	199518
Ion	Ratio	Lower	Upper
164	100		
129	89.3	62.8	116.6
131	86.7	60.2	111.8
166	126.9	89.4	166.0

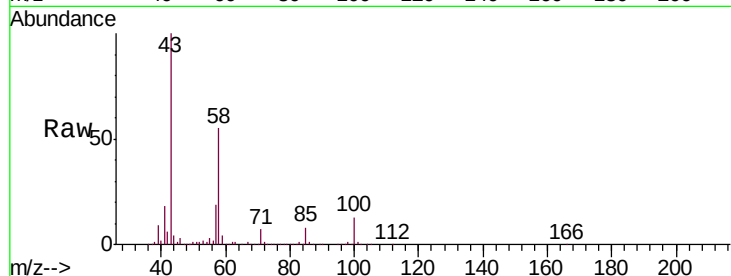




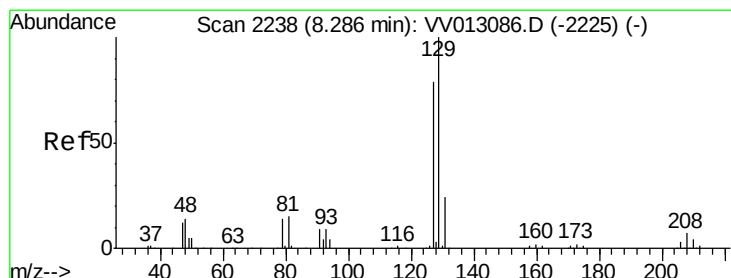
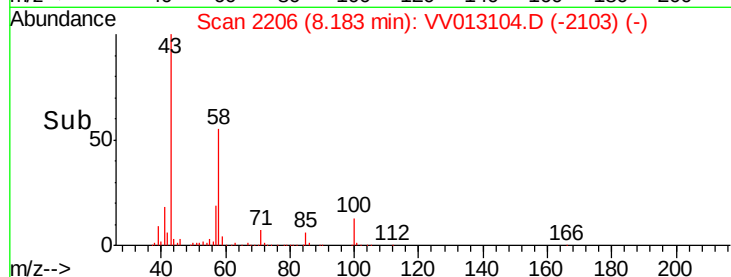
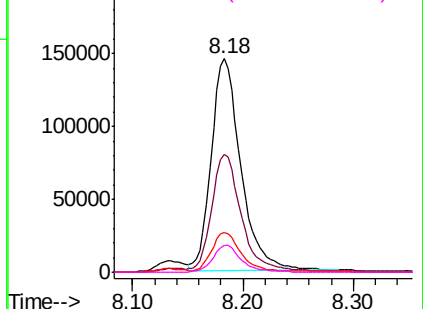
#49
2-Hexanone
Concen: 48.370 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

Instrument :
MSVOA_V
ClientSampleId :
VSTD02591

Tgt Ion:	43	Resp:	269822
Ion	Ratio	Lower	Upper
43	100		
58	54.5	46.5	69.7
57	17.5	15.5	23.3
100	12.5	9.7	14.5

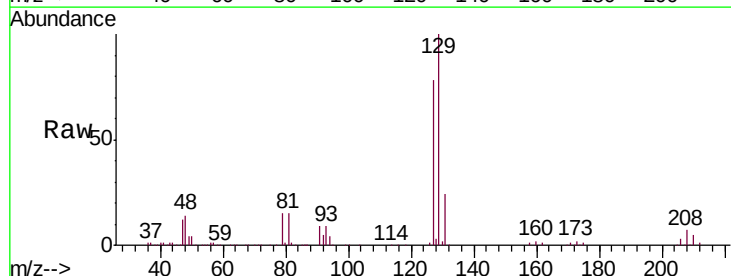


Abundance Ion 43.00 (42.70 to 43.70): VV013086.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV013086.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV013086.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV013086.D (-2195) (-)

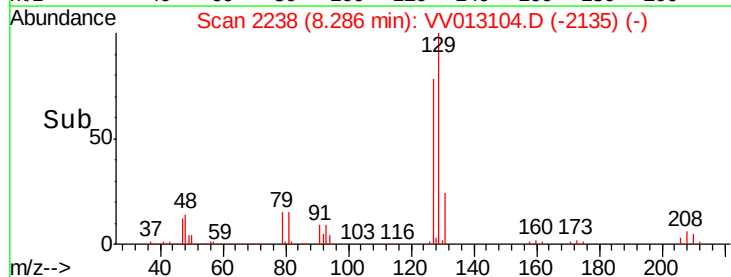
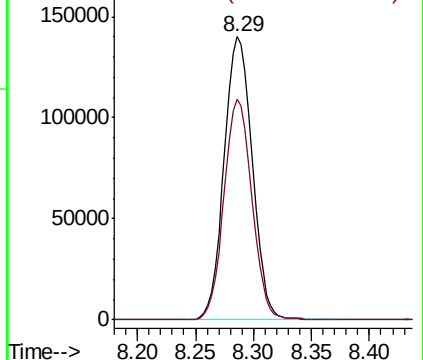


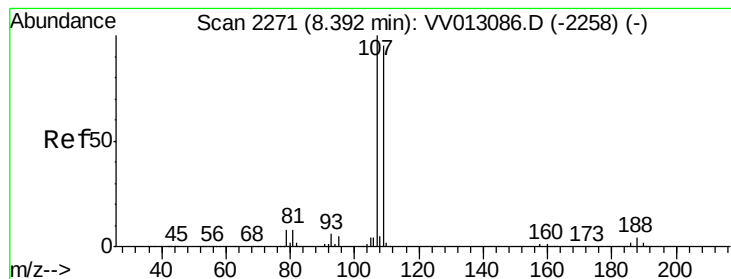
#50
Dibromochloromethane
Concen: 26.852 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV013104.D
Acq: 10 Oct 2019 21:13

Tgt Ion:	129	Resp:	236001
Ion	Ratio	Lower	Upper
129	100		
127	78.0	53.7	99.7



Abundance Ion 129.00 (128.70 to 129.70): VV013086.D (-2225) (-)
Ion 127.00 (126.70 to 127.70): VV013086.D (-2225) (-)





#51

1,2-Dibromoethane

Concen: 26.484 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD02591

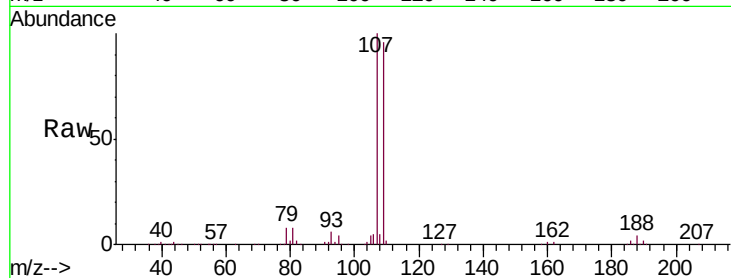
Tgt Ion:107 Resp: 198463

Ion Ratio Lower Upper

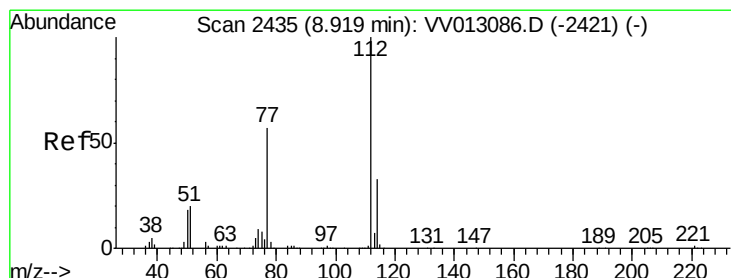
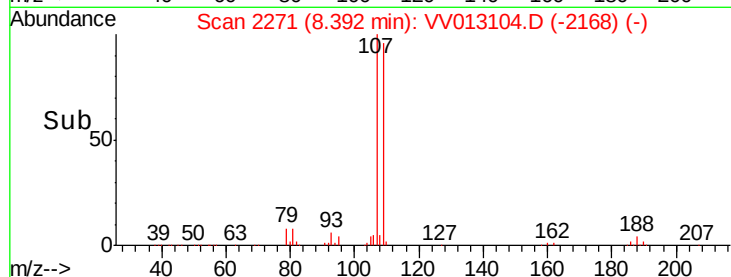
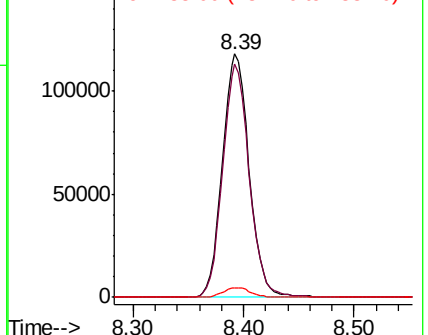
107 100

109 95.8 66.1 122.8

188 3.9 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: 27.084 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

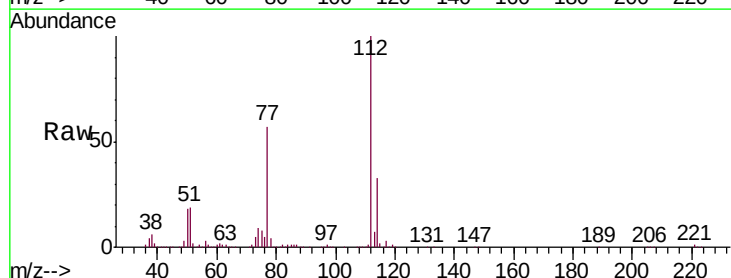
Tgt Ion:112 Resp: 682782

Ion Ratio Lower Upper

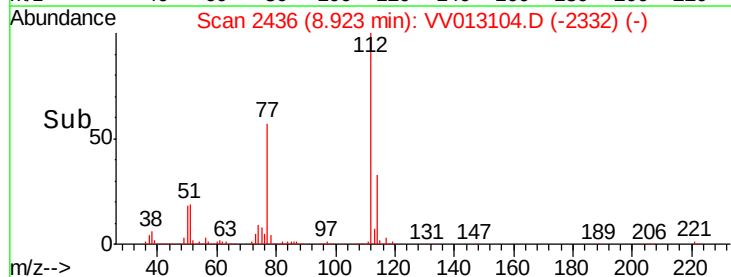
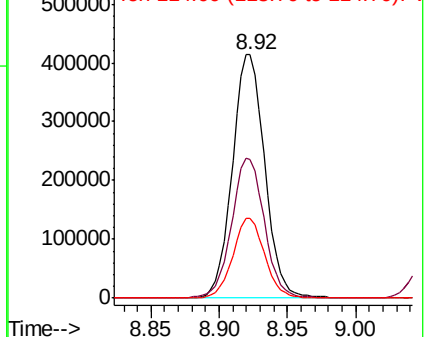
112 100

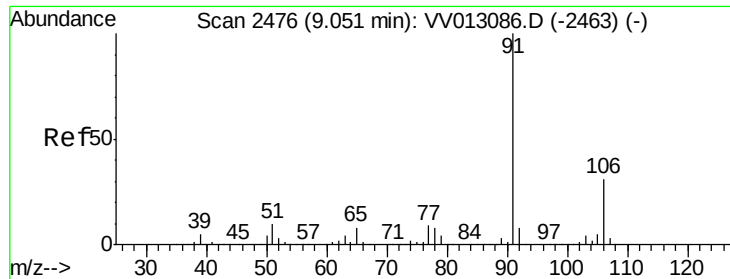
77 57.2 46.3 69.5

114 32.6 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: 27.792 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

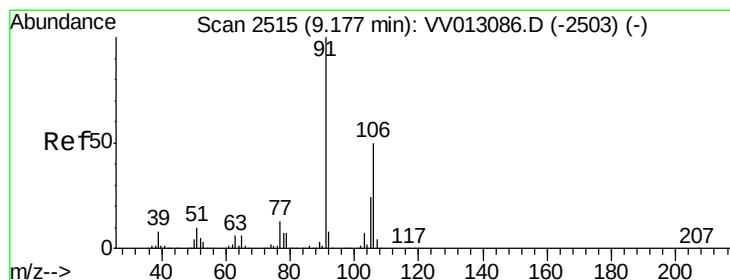
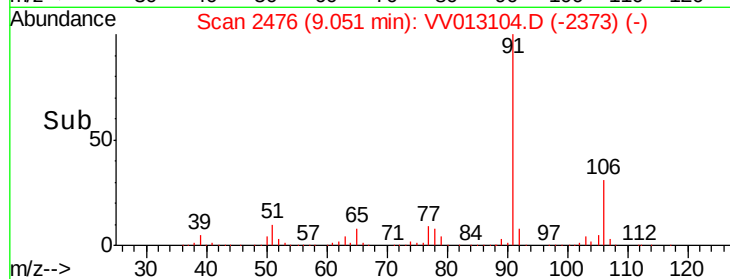
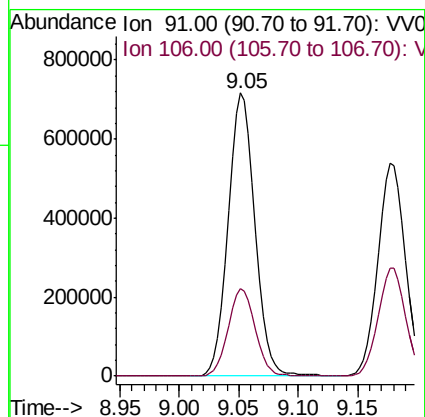
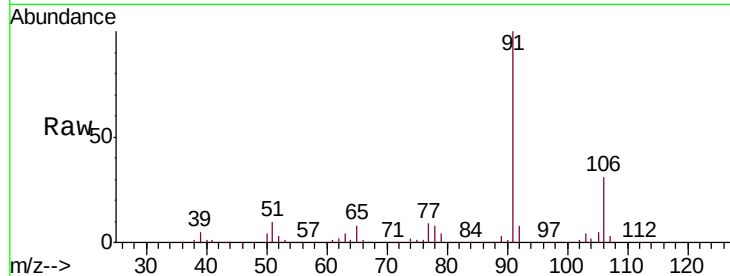
VSTD02591

Tgt Ion: 91 Resp: 1117836

Ion Ratio Lower Upper

91 100

106 31.1 21.8 40.4



#54

m,p-Xylene

Concen: 28.818 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV013104.D

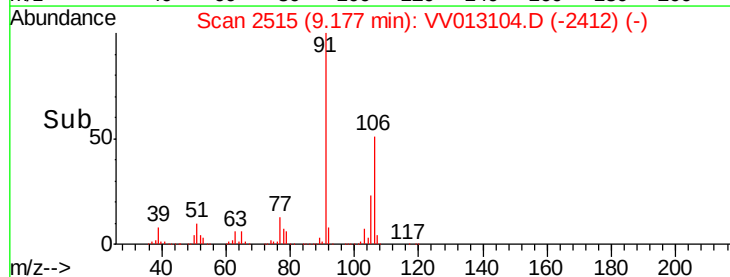
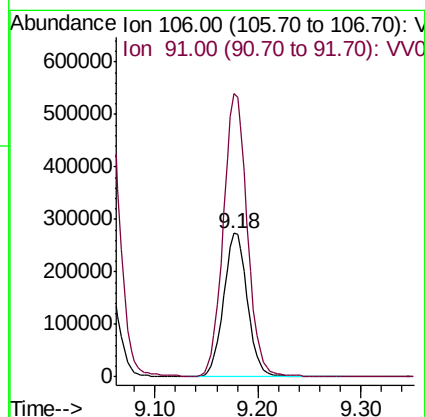
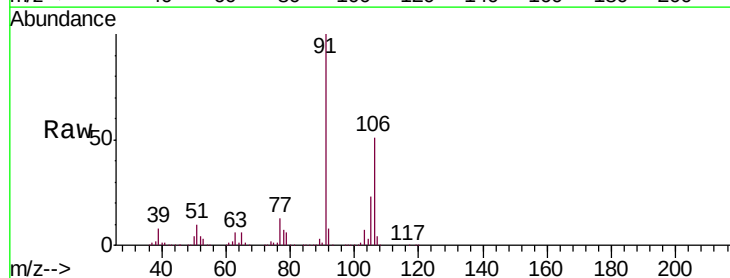
Acq: 10 Oct 2019 21:13

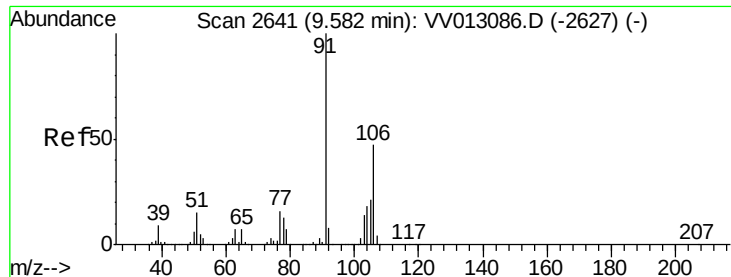
Tgt Ion: 106 Resp: 440662

Ion Ratio Lower Upper

106 100

91 197.0 140.1 260.3





#55

o-xylene

Concen: 28.889 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

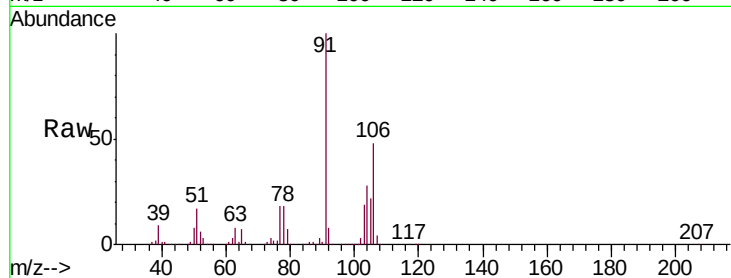
VSTD02591

Tgt Ion:106 Resp: 420907

Ion Ratio Lower Upper

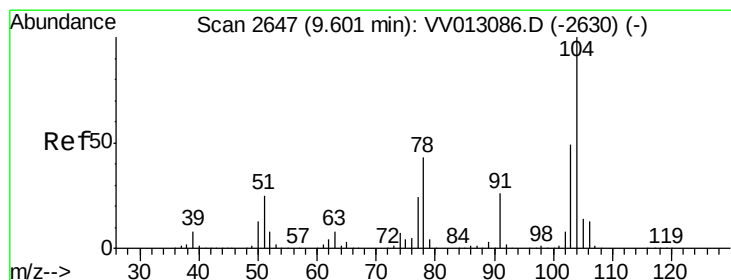
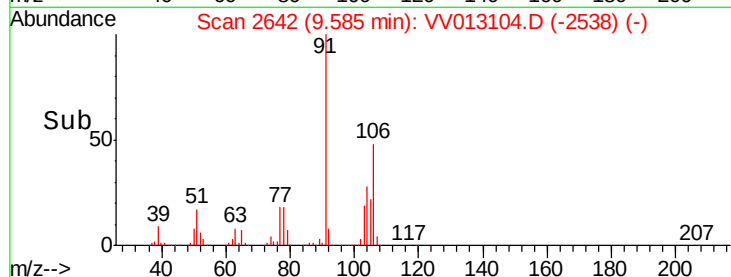
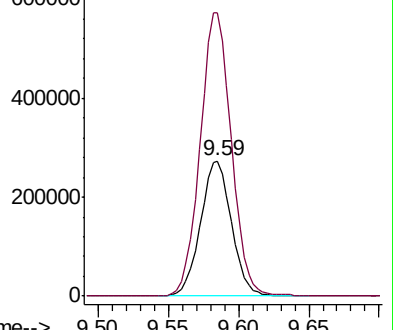
106 100

91 209.6 148.8 276.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 29.736 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV013104.D

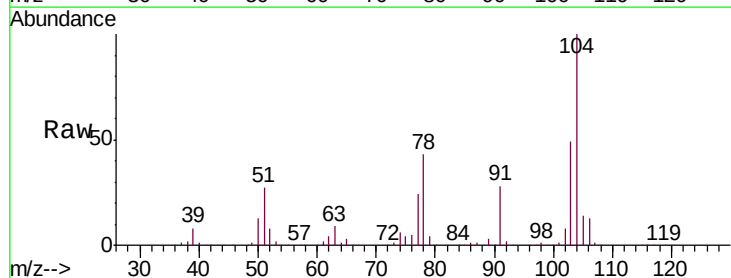
Acq: 10 Oct 2019 21:13

Tgt Ion:104 Resp: 762298

Ion Ratio Lower Upper

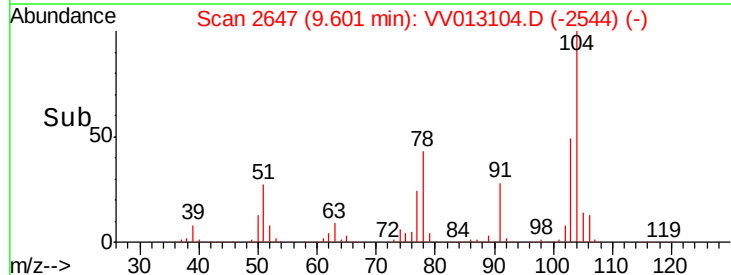
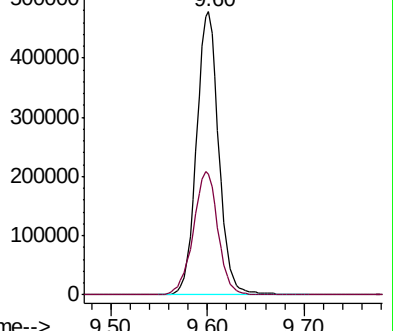
104 100

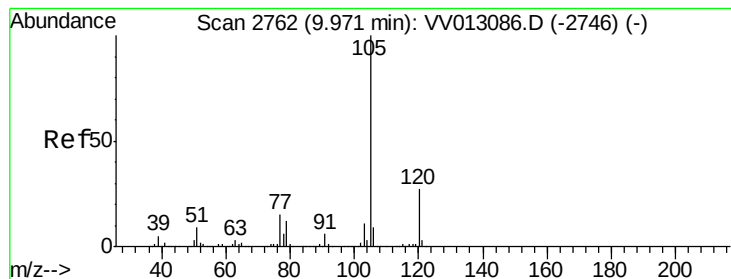
78 42.6 29.8 55.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 28.801 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD02591

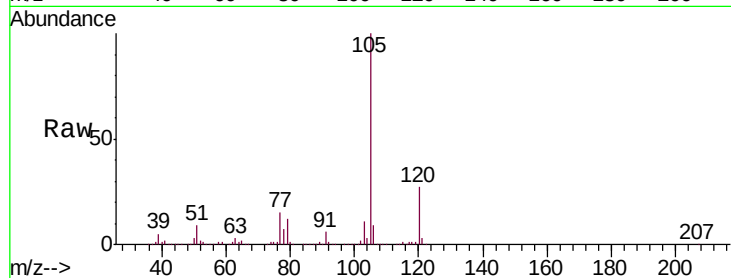
Tgt Ion:105 Resp: 1102786

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.0

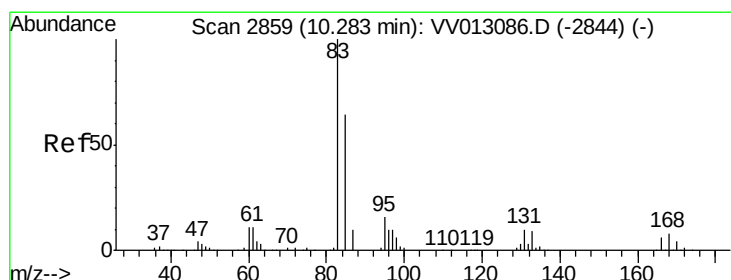
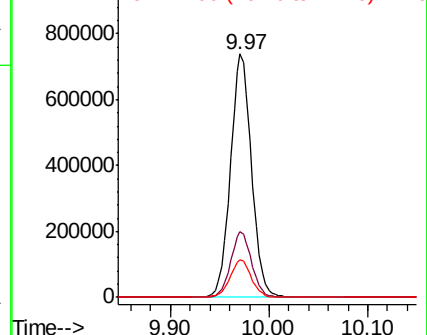
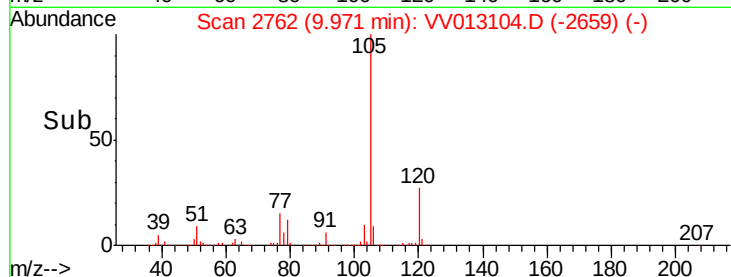
77 15.6 12.2 18.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 26.121 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

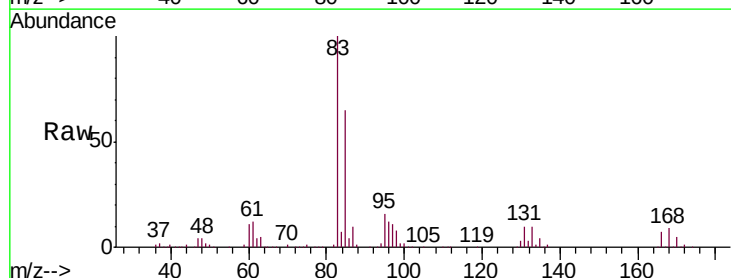
Tgt Ion: 83 Resp: 247076

Ion Ratio Lower Upper

83 100

85 64.5 45.4 84.2

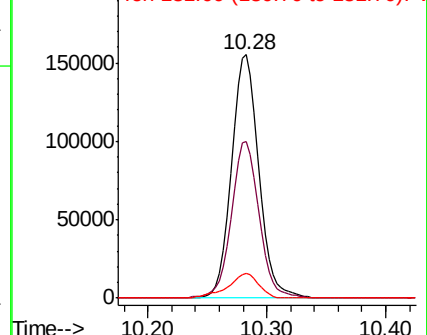
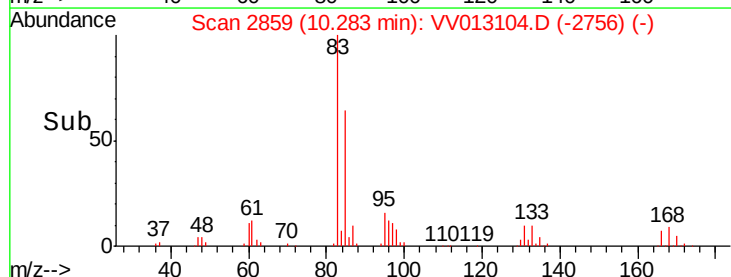
131 10.1 8.2 12.2

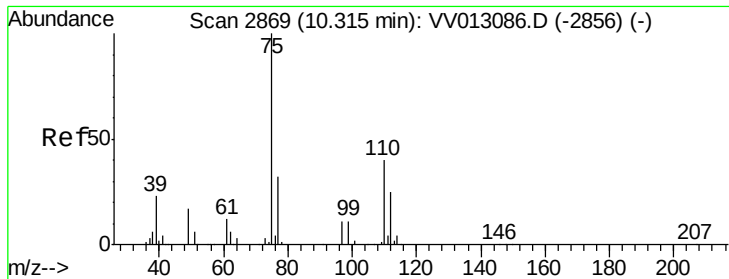


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

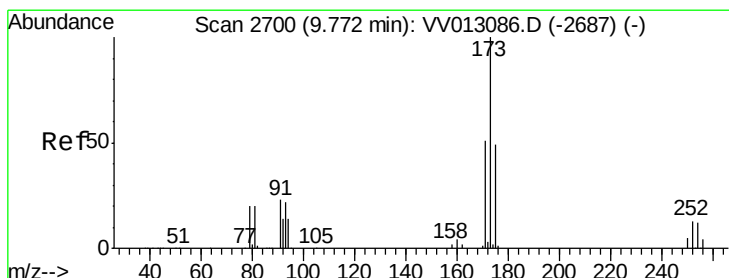
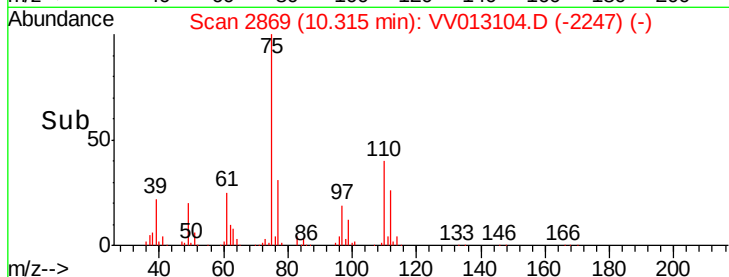
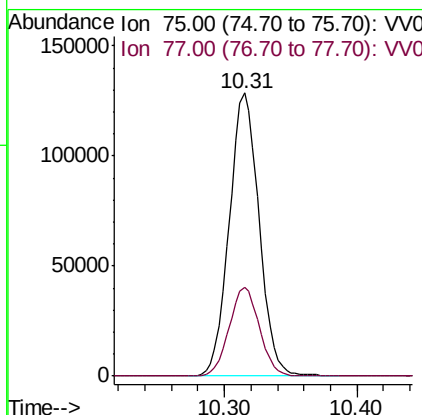
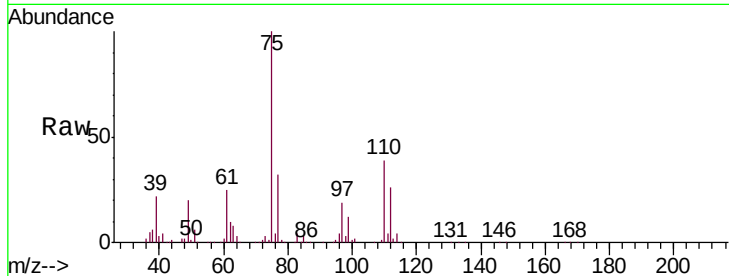




#59
 1,2,3-Trichloropropane
 Concen: 25.774 ug/L
 RT: 10.31 min Scan# 2869
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

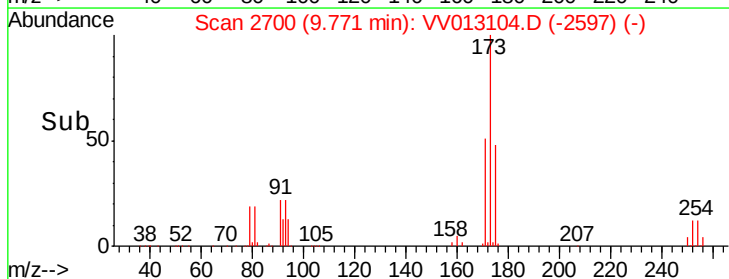
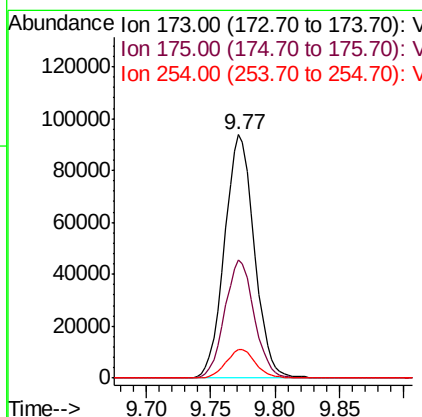
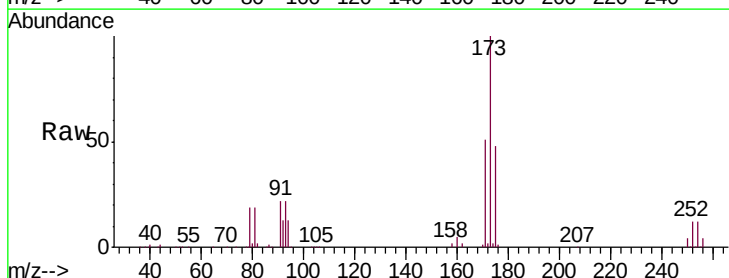
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02591

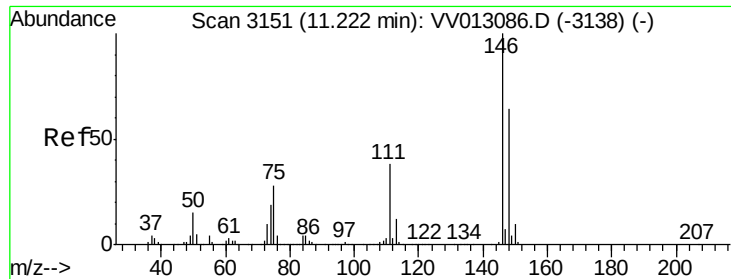
Tgt Ion: 75 Resp: 201222
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.4 38.0



#62
 Bromoform
 Concen: 25.100 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

Tgt Ion: 173 Resp: 149843
 Ion Ratio Lower Upper
 173 100
 175 48.4 39.5 59.3
 254 11.7 9.1 13.7

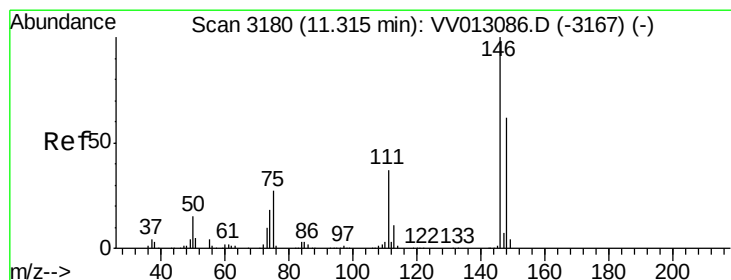
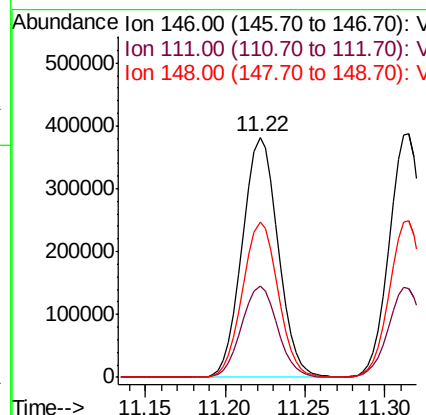
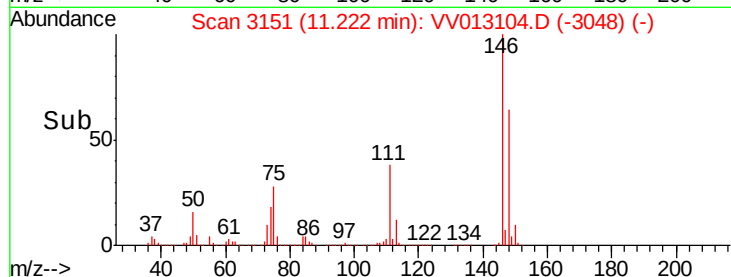
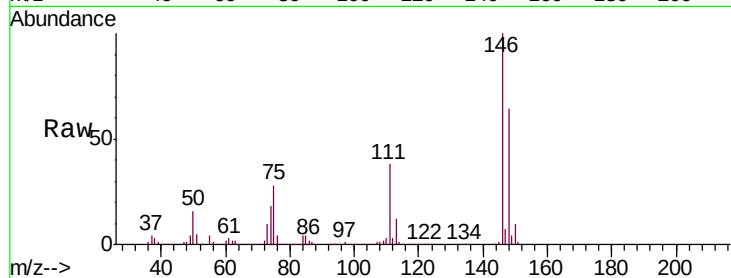




#63
 1,3-Dichlorobenzene
 Concen: 26.832 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

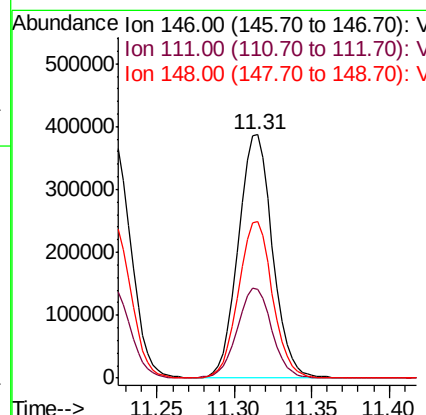
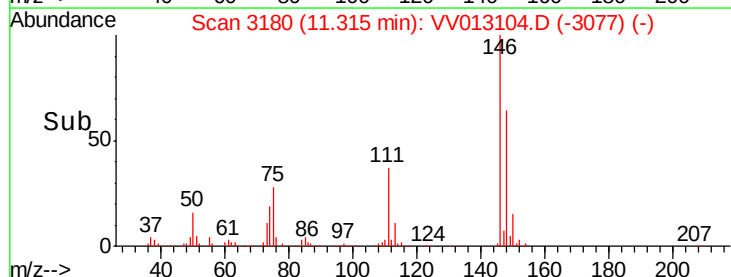
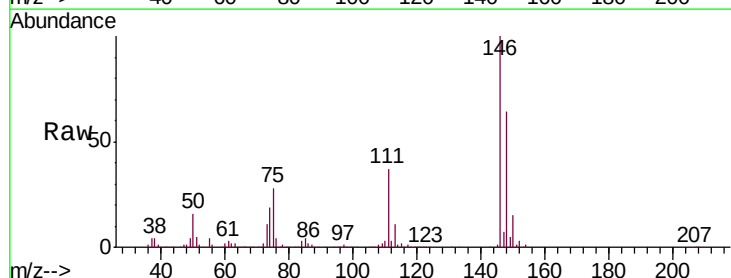
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02591

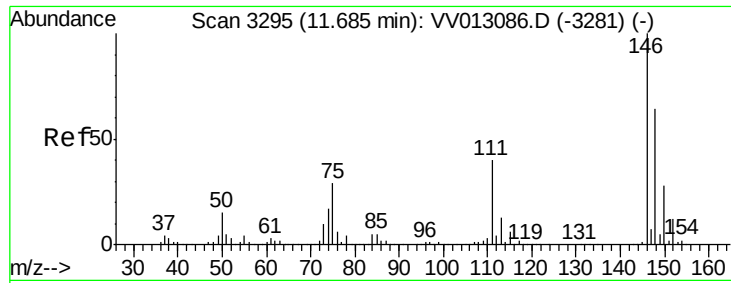
Tgt Ion:146 Resp: 581030
 Ion Ratio Lower Upper
 146 100
 111 38.0 26.7 49.7
 148 64.4 43.9 81.5



#64
 1,4-Dichlorobenzene
 Concen: 26.031 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

Tgt Ion:146 Resp: 591603
 Ion Ratio Lower Upper
 146 100
 111 36.7 25.5 47.3
 148 64.4 45.1 83.9

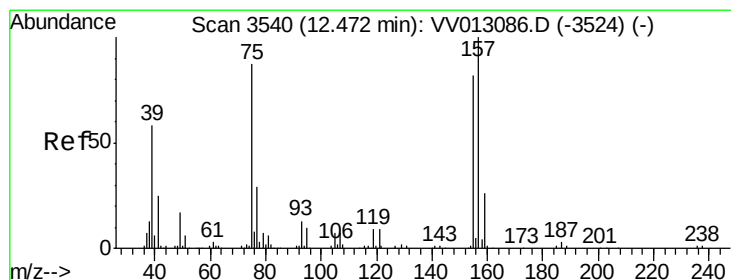
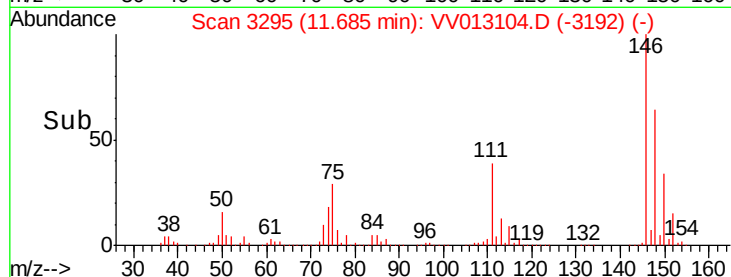
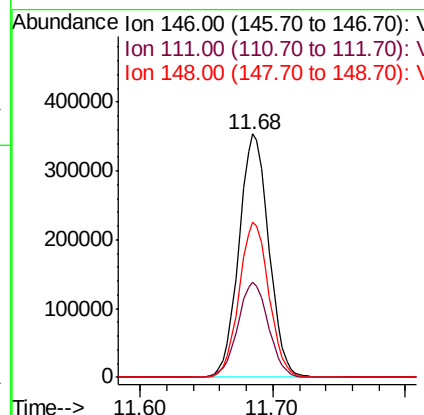
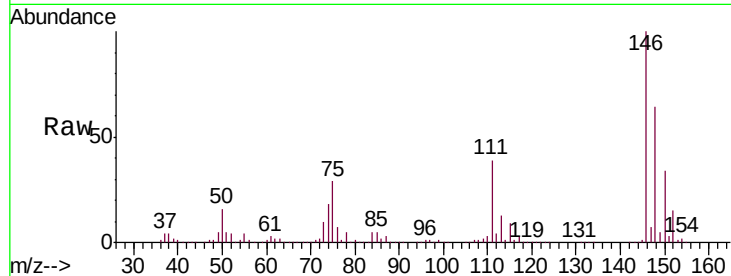




#65
 1,2-Dichlorobenzene
 Concen: 26.739 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

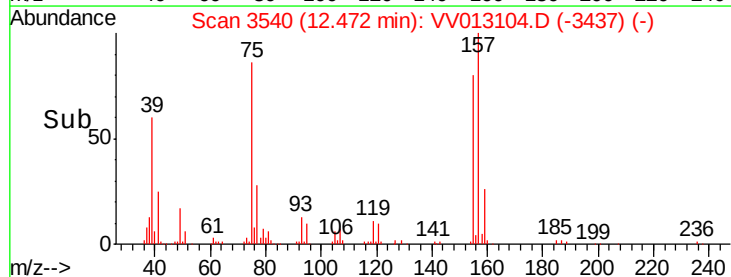
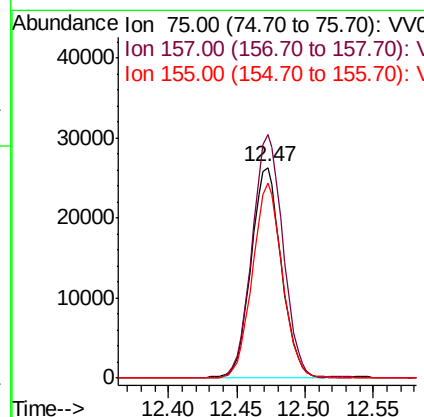
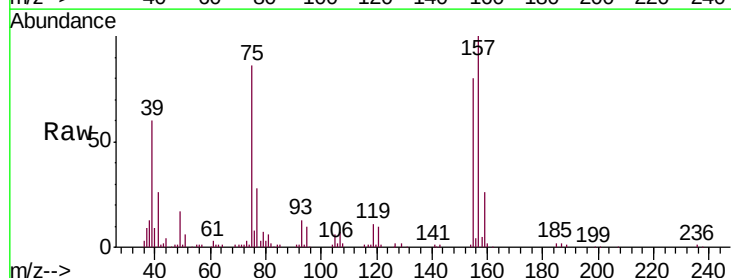
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02591

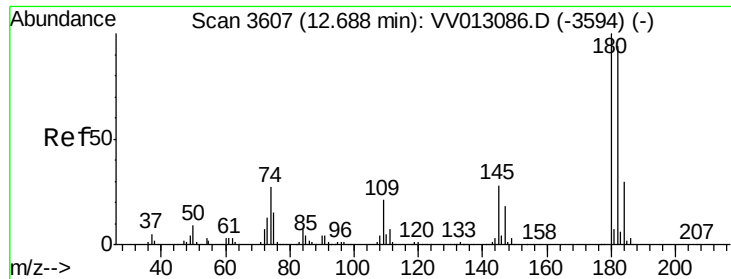
Tgt Ion: 146 Resp: 552300
 Ion Ratio Lower Upper
 146 100
 111 39.3 31.9 47.9
 148 63.9 51.0 76.6



#66
 1,2-Dibromo-3-chloropropane
 Concen: 22.298 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

Tgt Ion: 75 Resp: 40833
 Ion Ratio Lower Upper
 75 100
 157 115.7 91.7 137.5
 155 92.6 70.8 106.2

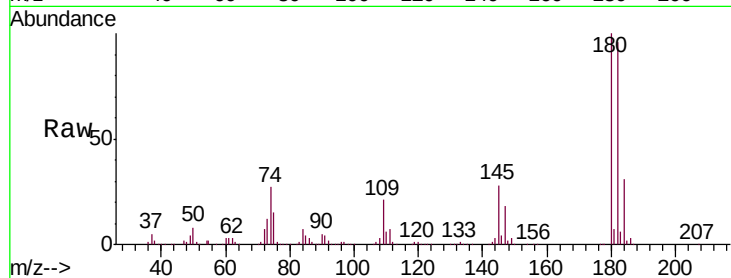




#67
 1,3,5-Trichlorobenzene
 Concen: 26.129 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02591

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.4	114.6
184	30.5	24.6	37.0
145	27.7	22.2	33.4



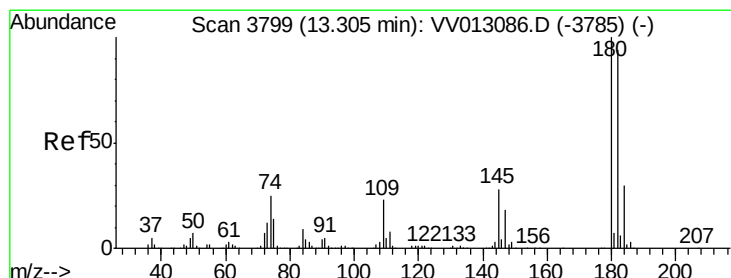
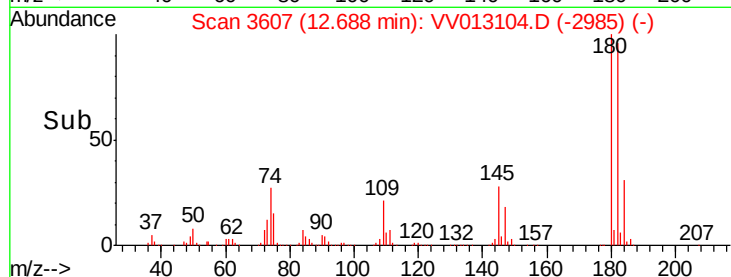
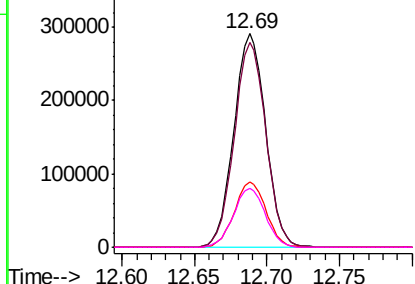
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

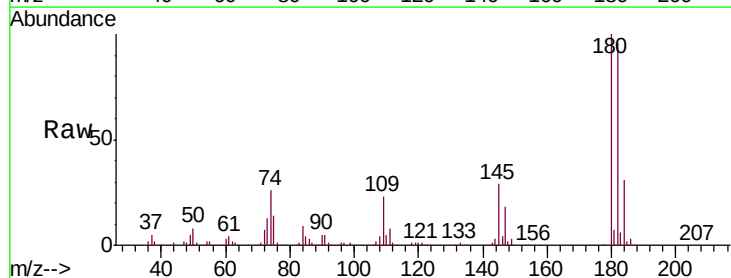
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 24.758 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV013104.D
 Acq: 10 Oct 2019 21:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.8	115.2
145	28.2	22.6	34.0

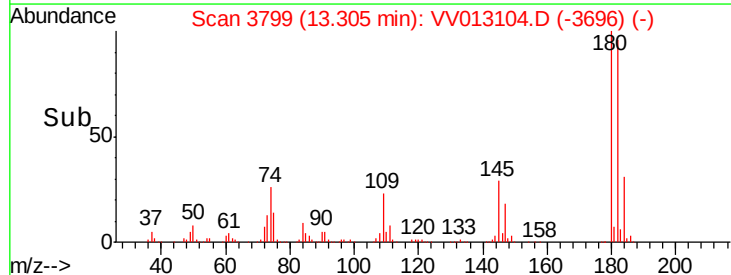
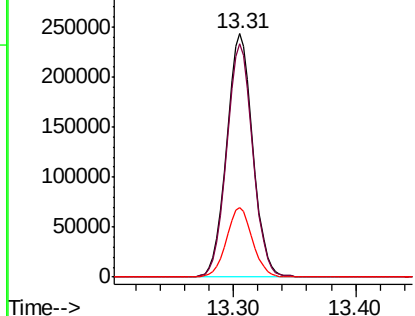


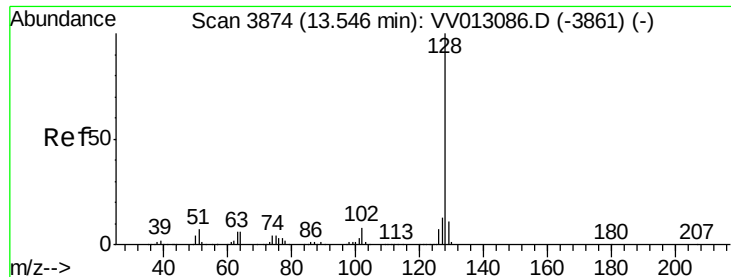
Abundance

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: 23.629 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

Instrument :

MSVOA_V

ClientSampleId :

VSTD02591

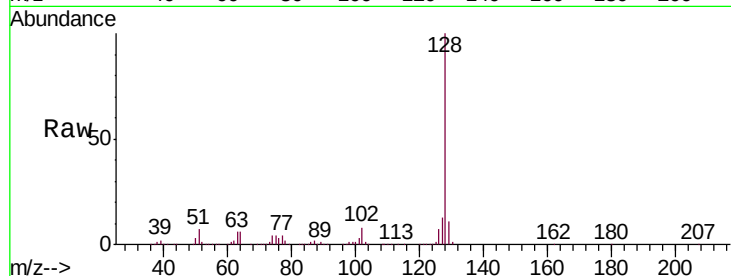
Tgt Ion:128 Resp: 703957

Ion Ratio Lower Upper

128 100

129 10.9 8.7 13.1

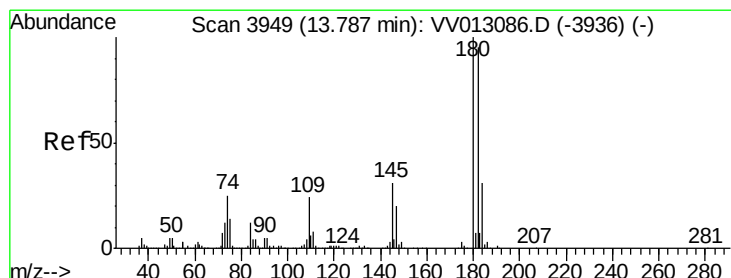
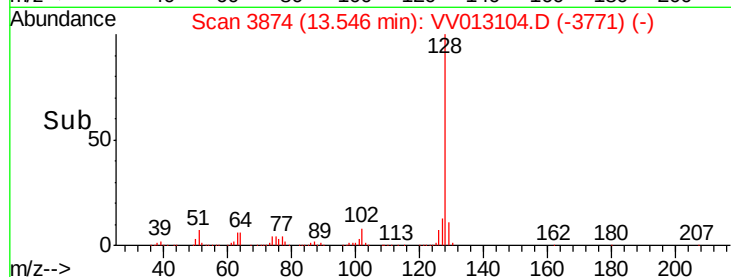
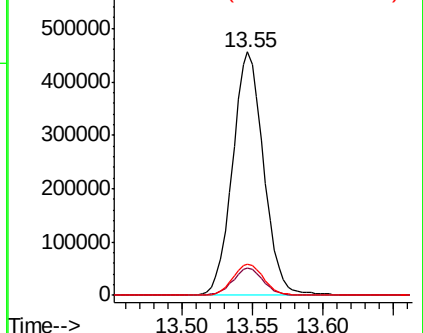
127 12.8 10.2 15.2



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: 25.136 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. -0.00 min

Lab File: VV013104.D

Acq: 10 Oct 2019 21:13

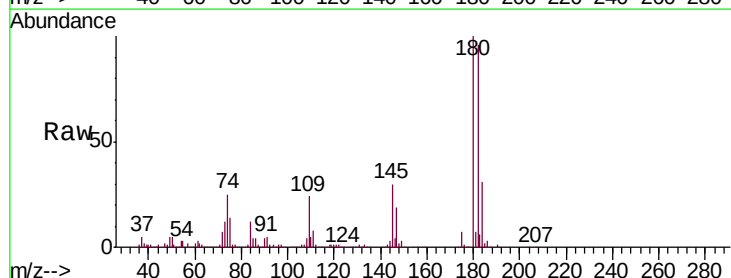
Tgt Ion:180 Resp: 357969

Ion Ratio Lower Upper

180 100

182 95.4 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

